

REPAIR CAPE LOOKOUT LIGHTHOUSE

CAPE LOOKOUT NATIONAL SEASHORE

100% STAMPED CONSTRUCTION DOCUMENTS

A/E FIRM PRIME/ARCH: LIOLLIO ARCHITECTURE CHARLESTON, SC

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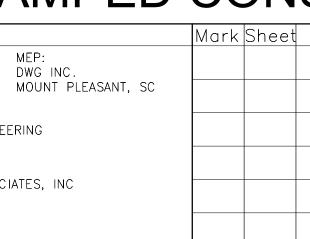
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\$7.23

MEP: TURE DWG MOUNT MOUNT

STRUCTURAL: BENNETT PRESERVATION ENGINEERING CHARLESTON, SC

CONSERVATION: BUILDING CONSERVATION ASSOCIATES, INC PHILADELPHIA, PA





GENERAL

G1	COVER SHEET
G2	PROJECT INFORMATION
G3	SITE PLAN
G4	EXISTING CONDITIONS
G5	EXISTING CONDITIONS

ARCHITECTURAL DEMOLITION

D1	DEMOLITION PLANS
D2	DEMOLITION PLANS
D3	DEMOLITION PLANS
D4	DEMOLITION PLANS
D5	DEMOLITION PLANS
D6	DEMOLITION PLANS
D7	DEMOLITION PLANS
D8	DEMOLITION ELEVATIONS
D9	DEMOLITION ELEVATIONS
D10	DEMOLITION BUILDING SECTION
D11	DOOR DEMO AND TYPES
D12	WINDOW DEMO AND TYPES
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ARCHITECTURAL

A1	FLOOR PLANS
A2	FLOOR PLANS
A3	FLOOR PLANS
A4	FLOOR PLANS
A5	FLOOR PLANS
A6	FLOOR PLANS
A7	FLOOR PLANS
A8	BUILDING ELEVATIONS
A9	BUILDING ELEVATIONS
A10	BUILDING ELEVATIONS DAYMARKS
A11	BUILDING SECTIONS
A12	DOOR DETAILS
A13	WINDOW DETAILS
A14	SPECIAL CONSTRUCTION DETAILS

REVISION Date Initial QUALITY DESIGN CERTIFICATION Image: Construction of the second and th

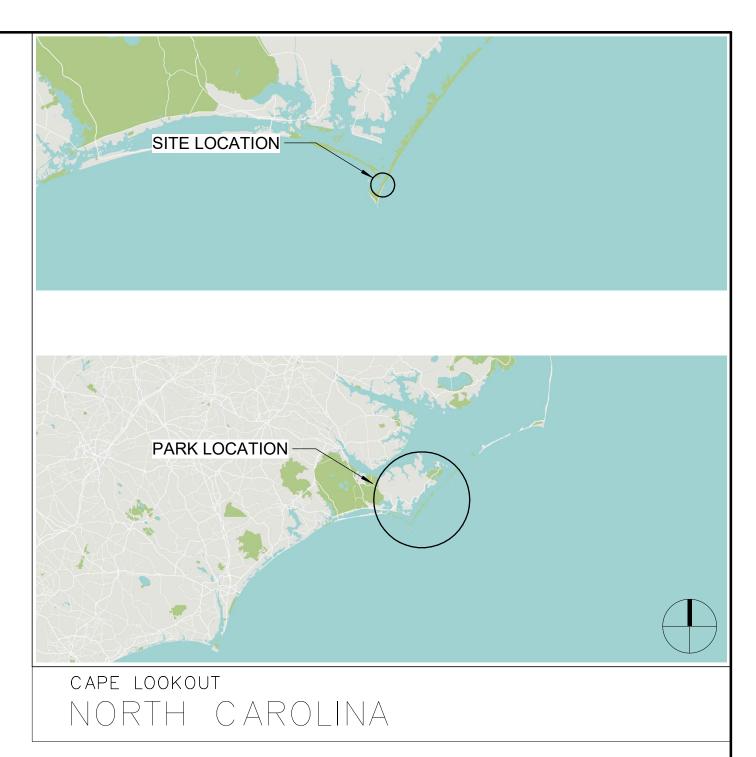


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CONSTRUCTION DOCU

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STRUCTURAL GENERAL NOTES

S0 GENERAL NOTES

STRUCTURAL DISASSEMBLY

SD1	DISASSEMBLY
SD2	DISASSEMBLY
SD3	TEMPORARY ROOF
SD4	TEMPORARY ROOF DETAILS

STRUCTURAL

S1	PLAN KEY
S2	PLAN
S3	PLAN
S4	PLAN
S5	PLAN
S6	ELEVATIONS
S7	SECTIONS
S8	SECTION
S9	SECTION DETAIL
S10	SECTION DETAIL
S11	SECTION DETAIL
S12	DETAILS
S13	DETAILS

ELECTRICAL

ELECTRICAL RISER DIAGRAM AND SCHEDULES
ELECTRICAL LIGHTING SECTION
FIRST & SECOND FLOOR ELECTRICAL PLAN
TYPICAL THIRD THROUGH SIXTH FLOOR ELECTRICAL PLAN
SEVENTH THROUGH NINTH FLOORS ELECTRICAL PLAN

MECHANICAL

M1	HVAC NOTES & LEGENDS
M2	FIRST & SECOND FLOOR MECHANICAL PLAN
M3	EIGHTH & NINTH FLOOR MECHANICAL PLAN

HAZARDOUS MATERIALS

H1 ABATEMENT OF HAZARDOUS MATERIALS

JMENTS	TITLE OF PROJECT	DRAWING NO.
	REPAIR CAPE LOOKOUT LIGHTHOUSE	623-181663
	LOCATION WITHIN PARK	023 101003
NTERIOR	HARKERS ISLAND	PMIS/PKG NO.
	NAME OF PARK	226858
	CAPE LOOKOUT NATIONAL SEASHORE	SHEET
INIER	<u>region</u> <u>state</u> <u>county</u> SOUTHEAST NORTH CAROLINA CARTERET	0F59
RVIC E ENTER	CAPE LOOKOUT NATIONAL SEASHORE	SHEET

ABREVIATIONS

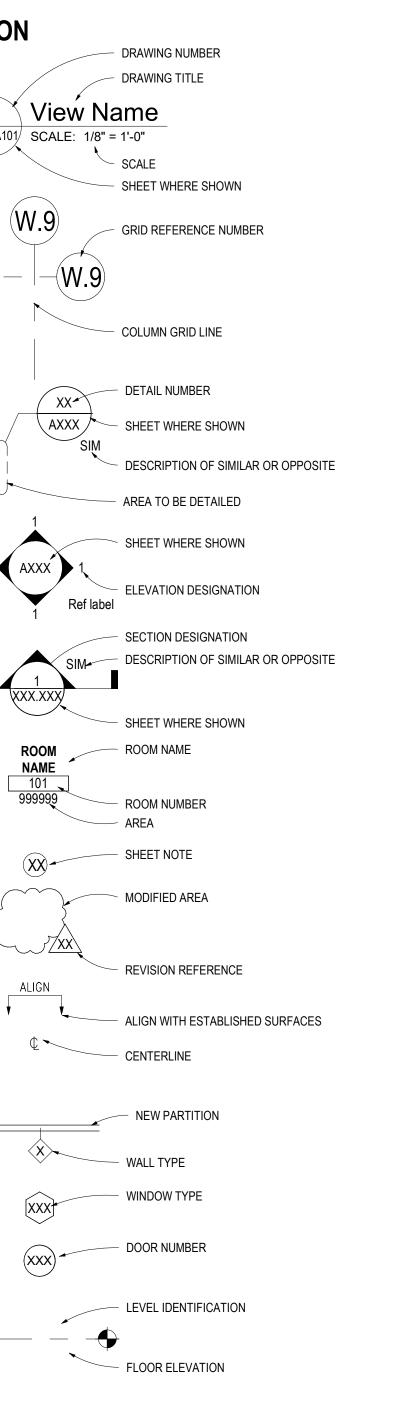
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INFILTR INFILTRATION			W
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		JOINT	W
			W
LT LIGHT	LT	LIGHT	W

LEVELING LVLG LVR LOUVER MATERIAL MAT'L MAX MAXIMUM MFD MANUFACTURED MFR MANUFACTURER MECH MECHANICAL MINIMUM MIN MISCELLANEOUS MISC MLWK MILLWORK MASONRY OPENING MO MOIST MOISTURE MOT MOTOR(IZED) MTD MOUNTED METAL NOT IN CONTRACT MON NOMINAL VTS NOT TO SCALE C ON CENTER OPPOSITE HAND ЭΗ OWNER INSTALLED OPNG OPENING(S) OPP OPPOSITE OPR OPERABLE OWNER SUPPLIED DS DNAC OVERHEAD PTN PARTITION PANEL PNL PORT PORTABLE PREFIN PREFINISHED PREFAB PREFABRICATED PLSTC PLASTIC PLYWOOD PLYWD PRTECN PROTECTION PAINT RECESSED RECES RECPT RECEPTACLE REF REFER(ENCE) REFL REFLECTED REQD REQUIRED RESIS REINF RESIL RESIST(ANT)(IVE) REINFORCE(D)(ING)(MENT) RESILIENT REV REVISION RFG ROOFING RM ROOM RO ROUGH OPENING SQUARE FEET SINGLE SGL SIMILAR STAINLESS STEEL SST STD STANDARD STEEL STL STRUCT STRUCTURAL SURFACE SURF SYSTEM(S) SYS SYMETRICAL SYM SUSP SUSPENDED ГЕМР TEMPORARY ГНК THICK TOP OF Г.О. FRANS TRANSPARENT rrtd TREATED TYPICAL TYP UNDRLAY UNDERLAYMENT UNO UNLESS NOTED OTHERWISE JTIL UTILITY VEHICLE /EH /ERT VERTICAL VERIFY IN FIELD WITH WIDTH WOOD ND NDW WINDOW WITHOUT N/O WEIGHT NT NTRPRF WATERPROOFING

GRAPHIC SYMBOLS

CONSTRUCTION

DRAWING TITLE	1 A102 A101
COLUMN GRIDS	
CALLOUT REFERENCE (I	
ELEVATION REFERENCE	1
SECTION REFERENCE	
ROOM TAG	
NOTES & SYMBOLS	
WALL TAG	•
WINDOW TAG DOOR TAGS	
LEVEL MARKER	
ACCESSORY TAGS	



XX TOILET ACCESSORY TYPE

GRAPHIC SYMBOLS

SECTION INDICATIONS

SAND OR GROUT
STONE
CONCRETE
BRICK
CONCRETE MASONRY UNIT
METAL
WOOD (FINISH)
WOOD (CONTINUOUS)
WOOD (BLOCKING) INTERRUPTED MEMBER





PROJECT NOTES

LIGHTHOUSE CONTAINS HAZARDOUS MATERIALS. SEE SPECIFICATIONS FOR HAZARDOUS MATERIAL REPORT & ASSOCIATED SPECIFICATIONS.

CAPE LOOKOUT NATIONAL SEASHORE IS A CERTIFIED INTERNATIONAL DARK SKY PARK. GC SHALL UTILIZE DARK SKY COMPLIANT FIXTURES IF ANY WORK OCCURS AT NIGHT. SEE DIVISION 1 SPECIFICATIONS FOR GENERAL WORK RESTRICTIONS

SEE DIVISION 1 SPECIFICATIONS FOR FURTHER DEFINITIONS OF THE CONTRACT LINE ITEMS LISTED BELOW.

CONTRACT LINE ITEMS

CLIN 1 EXTERIOR COATING - REMOVE, REPAIR MASONRY, AND RECOAT

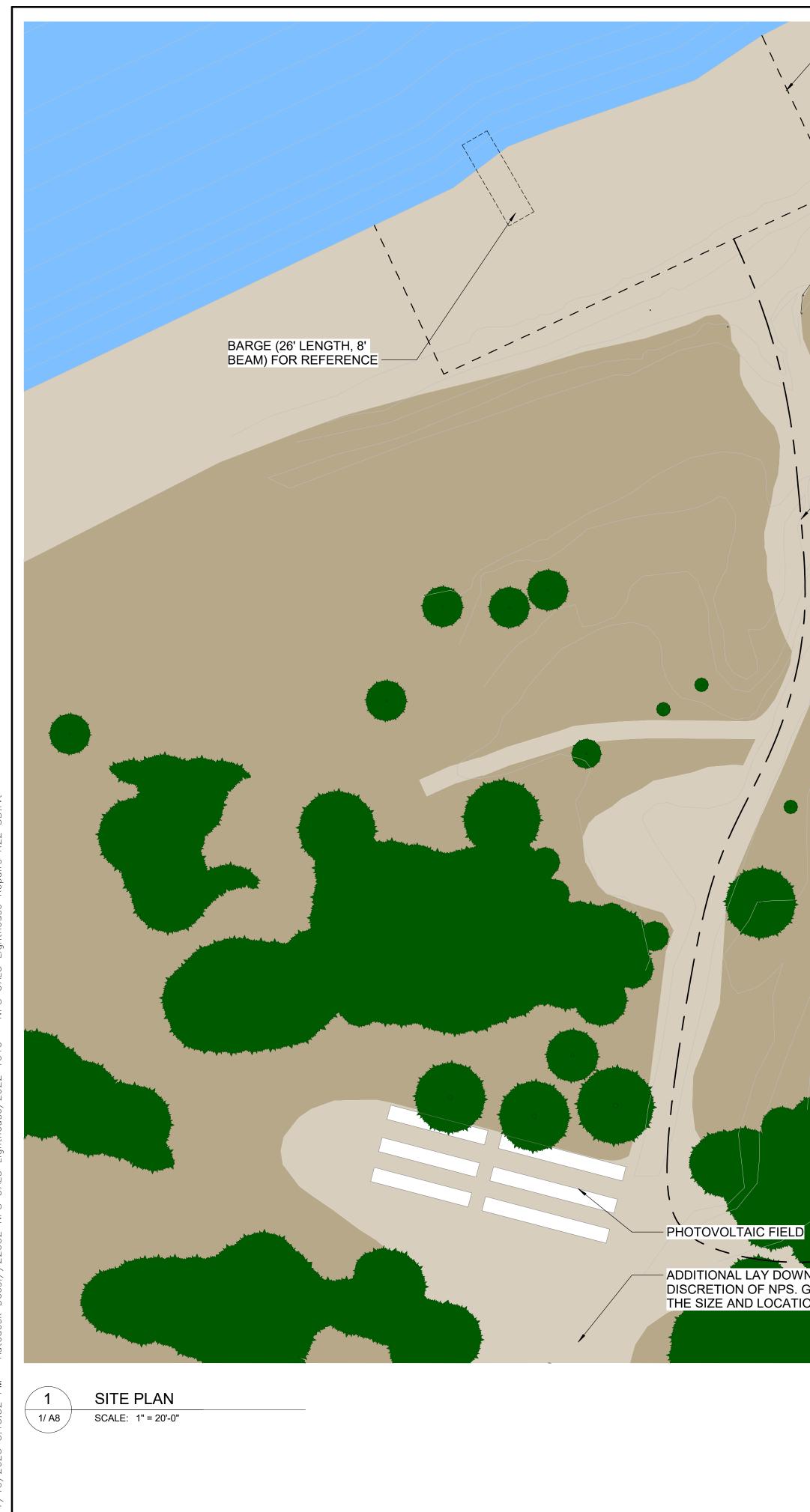
- REMOVE AND REPLACE EXTERIOR DOORS CLIN 2
- REMOVE AND REPLACE WINDOWS CLIN 3
- CLIN 4 REMOVE LANTERN AND CONSTRUCT STRUCTURAL CAP. INCLUDES MINOR MECHANICAL AND ELECTRICAL
- CLIN 8 CAST IRON STAIRS, LANDINGS, CENTER COLUMN, HANDRAIL
- CLEAN AND REPOINT INTERIOR BRICK CLIN 9
- CLIN 10 REPAIR AND REPLACE CAST IRON TOP OF LIGHTHOUSE & INSTALL THREADED ROD TIE DOWNS IN LIEU OF REINSTALLING STEEL FRAME
- CLIN 11 ELETRICAL WORK
- CLIN 12 MECHANICAL WORK

SPECIFICATION

REFER TO THE DIVISIONS BELOW FOR SPECIFICATIONS AND RELATED INFORMATION. REFER TO ALL THE SPECIFICATIONS FOR A HOLISTIC COMPREHENSION OF PROJECT REQUIREMENTS.

DIVISION 01	GENERAL REQUIREMENTS
DIVISION 02	BRACING & SHORING / SELECT DEMO / HISTORIC CONDITIONS / ABATEMENT
DIVISION 03	CONCRETE
DIVISION 05	HISTORIC METAL REPAIR & REPLICATIONS / METAL FABRICATION
DIVISION 06	WOOD CARPENTRY
DIVISION 07	ROOFING & SEALANTS
DIVISION 08	WOOD WINDOWS & DOORS
DIVISION 09	PAINTING & COATING REMOVAL / PAINTING / COATING
DIVISION 23	MECHANICAL
DIVISION 26	ELECTRICAL

GNED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
D:	()	PROJECT INFORMATION	623 181663
	G C		PMIS/PKG NO.
H. REVIEW:			226858
		CAPE LOOKOUT NATIONAL SEASHORE	SHEET
:: /7/2023		LIGHTHOUSE REPAIRS	OF59



ACCEPTABLE AREA OF BARGE LOADING AND UNLOADING ZONE. GC TO COORDINATE DOCKING LOCATIONS WITH NPS PRIOR TO CONSTRUCTION.

SUMMER KITCHEN

- OIL STORAGE

KEEPERS QUARTERS

33' - 0"

45' - 0"

HISTORICAL AND CULTURAL ELEMENTS, EXTENTS, AND HISTORIC FOOTPRINTS.

PATH FROM LOADING AREA TO LIMITS OF DISTURBANCE TO BE COORDINATED WITH NPS WITH MINIMAL DISTURBANCE TO NPS ACTIVITIES.

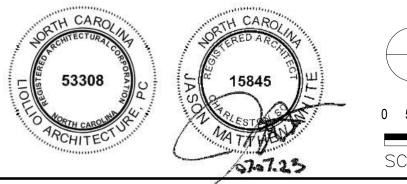
SITE ELEMENTS LOCATED DISTURBANCE SUCH AS LIC ETC, TO REMAIN. GC TO CO NPS IF REMOVAL IS REQUE HEAVY LOADS NOT BE PL WALKWAYS. BRICK TO RE

LIMITS OF DISTURBANCE. EXTEND PAST LIMITS OF - POTENTIAL EXTENTS OF S

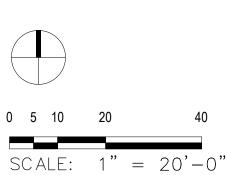
- LIMITS OF CONSTRUCTIO

- ADDITIONAL LAY DOWN AREA AVAILABLE AT DISCRETION OF NPS. GC TO COORDINATE THE SIZE AND LOCATION WITH NPS.

0



125' - 0"



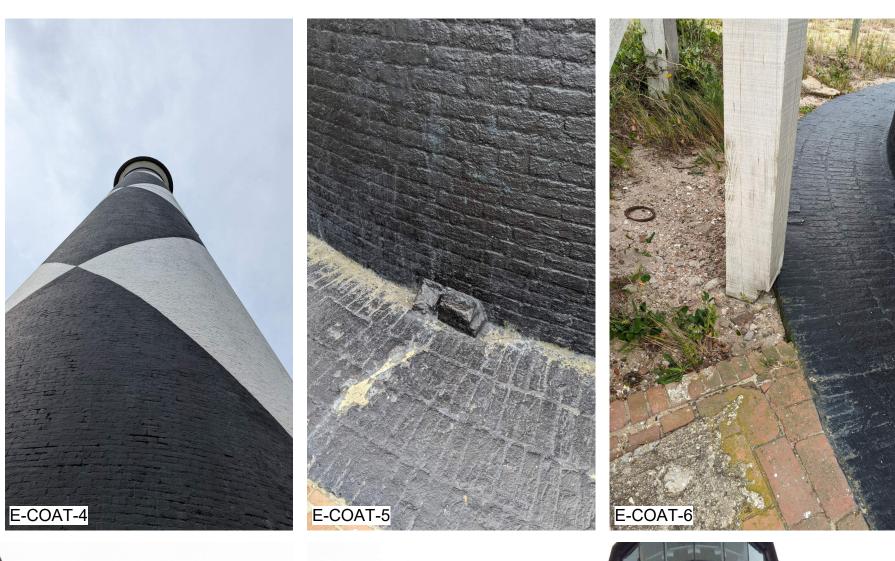
DESIC CAD ΗT TECH JW DATE

		00
	RDWALK TO P	EDESTRIAN FERRY
TED INSIDE LIMITS OF		
TED INSIDE LIMITS OF AS LIGHTING, SHELTERS, O COORDINATE WITH EQUESTED. PLACED ON BRICK O REMAIN INTACT. CE. GUY WIRES TO		
OF DISTURBANCE. OF SCAFFOLDING TION		
DESIGNED: SUB SHEET NO		
DC CADD: HT FECH. REVIEW:	SITE PLAN	DRAWING NO. 623 181663 PMIS/PKG NO. 226858
JW DATE: 7/7/2023	CAPE LOOKOUT NATIONAL SEASHOF LIGHTHOUSE REPAIRS	RE SHEET

EXTERIOR EXISTING CONDITIONS











E-COAT-7



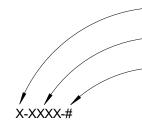
E-COAT-9





NAMING CONVENTION

SYMBOLS



- EXTEIOR (E) OR INTERIOR (I) - CATEGORY - IMAGE NUMBER

CATEGORIES	CODE	MEANING
	COAT	COATING
	MTL	METAL
	ELEC	ELECTRICAL
	MECH	MECHANICAL
	MAS	MASONRY
	LANT	LANTERN/WATCH LEVEL

SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
$\bigcirc \land$	EXISTING CONDITIONS	623 181663
64		PMIS/PKG NO.
		226858
	CAPE LOOKOUT NATIONAL SEASHORE	SHEET
	LIGHTHOUSE REPAIRS	4_OF59
	sub sheet no.	G4 EXISTING CONDITIONS CAPE LOOKOUT NATIONAL SEASHORE

INTERIOR EXISTING CONDITIONS

INTERIOR FERROUS METAL STAIRS, LANDING AND HANDRAILS - EXISTING CONDITIONS.



ELECTRICAL AND MECHANICAL - EXISTING CONDITIONS.

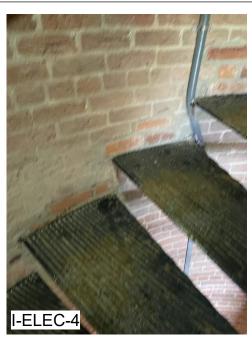


I-ELEC-2

ELECTRICAL

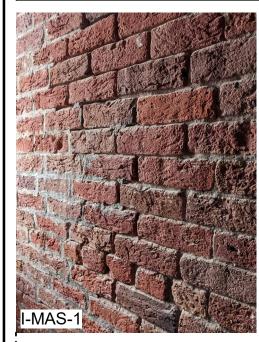


ROUTING AND MOUNTING OF CONDUIT TO LIGHT FIXTURE



ROUTING OF CONDUIT THROUGH STAIRS |. F */*











LANTERN & WATCH LEVEL - EXISTING CONDITIONS.





ROUTING OF CONDUIT AROUND OPENINGS



ROUTING OF CONDUIT AROUND OPENINGS



EXAMPLE OF OUTLET AT BASE OF STAIR

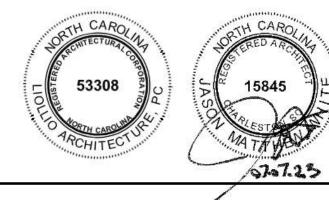


ROUTING AND MOUNTING OF CONDUIT TO LIGHT FIXTURE



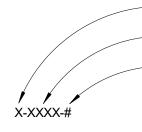
EXISTING AIR VENT





NAMING CONVENTION

SYMBOLS



EXTEIOR (E) OR INTERIOR (I) CATEGORY IMAGE NUMBER

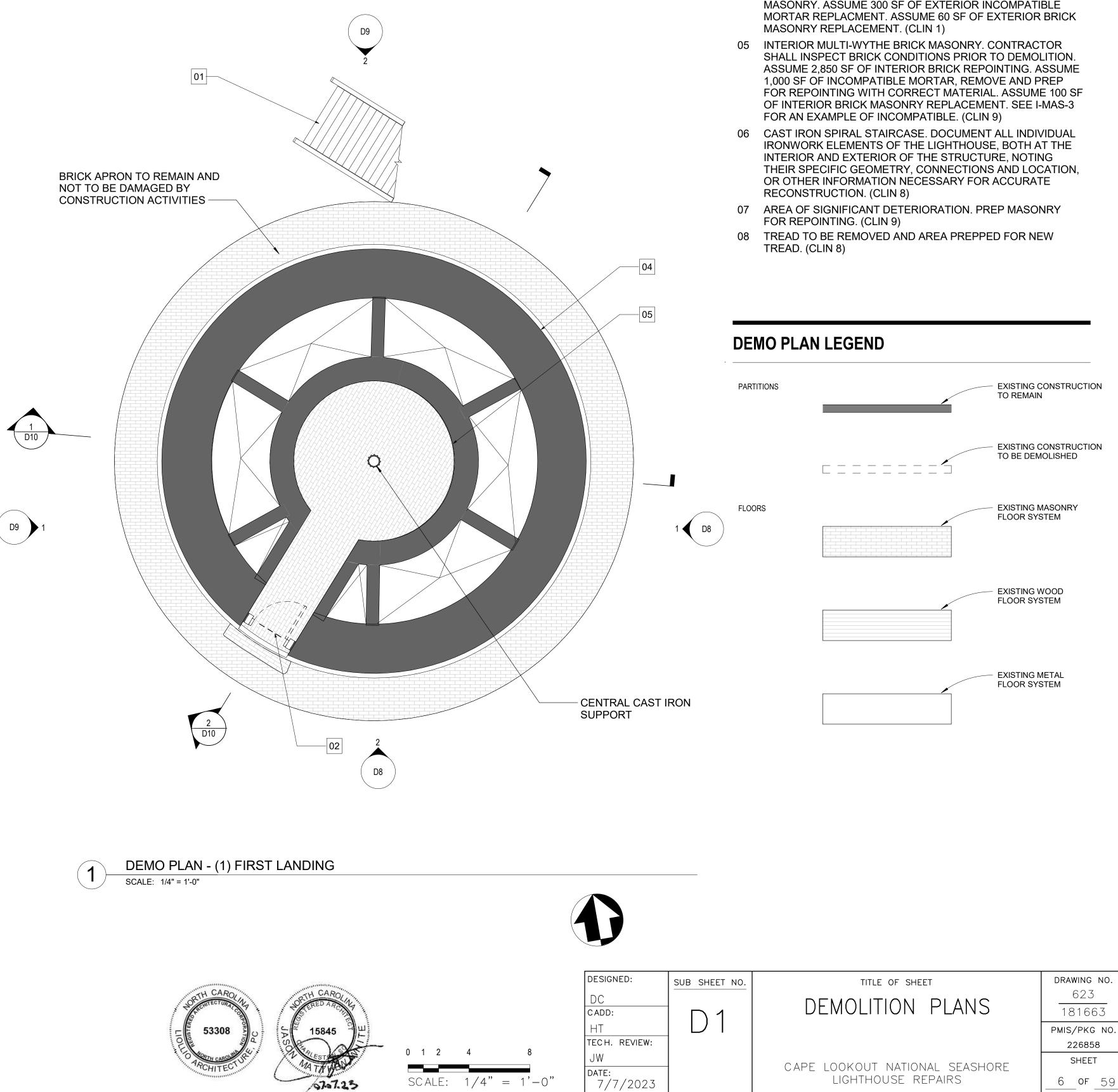
CATEGORIESCODEMEANINGCOATCOATINGCOATCOATINGMTLMETALELECELECTRICALMECHMECHANICALMASMASONRYLANTLANTERN/WATCH LEVEL

EXISTING AIR VENT

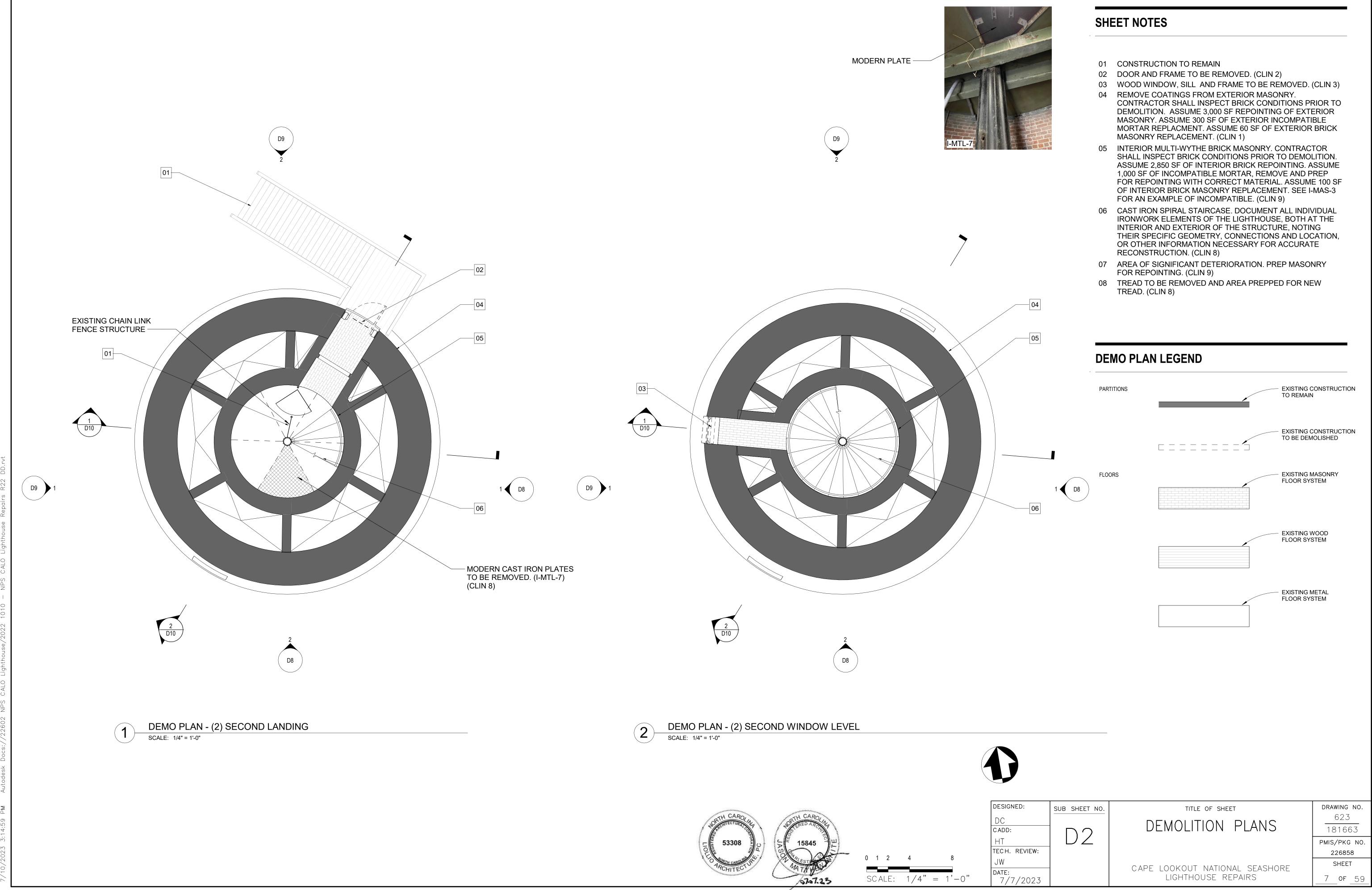
VENT CAPS

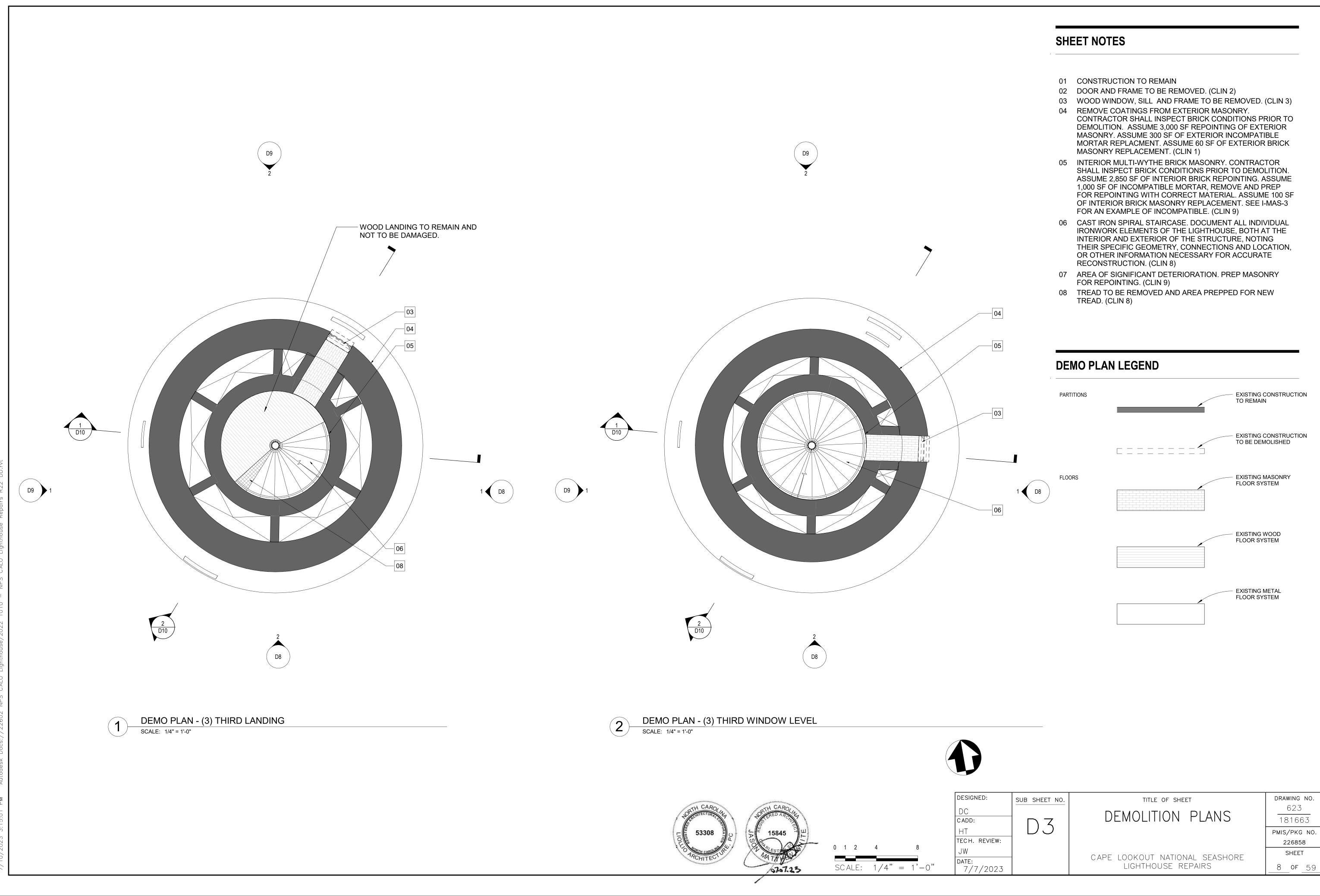


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	G5		PMIS/PKG NO.
H. REVIEW:			226858
_		CAPE LOOKOUT NATIONAL SEASHORE	SHEET
: /7/2023		LIGHTHOUSE REPAIRS	OF59



- 01 CONSTRUCTION TO REMAIN
- 02 DOOR AND FRAME TO BE REMOVED. (CLIN 2)
- 03 WOOD WINDOW, SILL AND FRAME TO BE REMOVED. (CLIN 3) 04 REMOVE COATINGS FROM EXTERIOR MASONRY. CONTRACTOR SHALL INSPECT BRICK CONDITIONS PRIOR TO
- DEMOLITION. ASSUME 3,000 SF REPOINTING OF EXTERIOR MASONRY. ASSUME 300 SF OF EXTERIOR INCOMPATIBLE

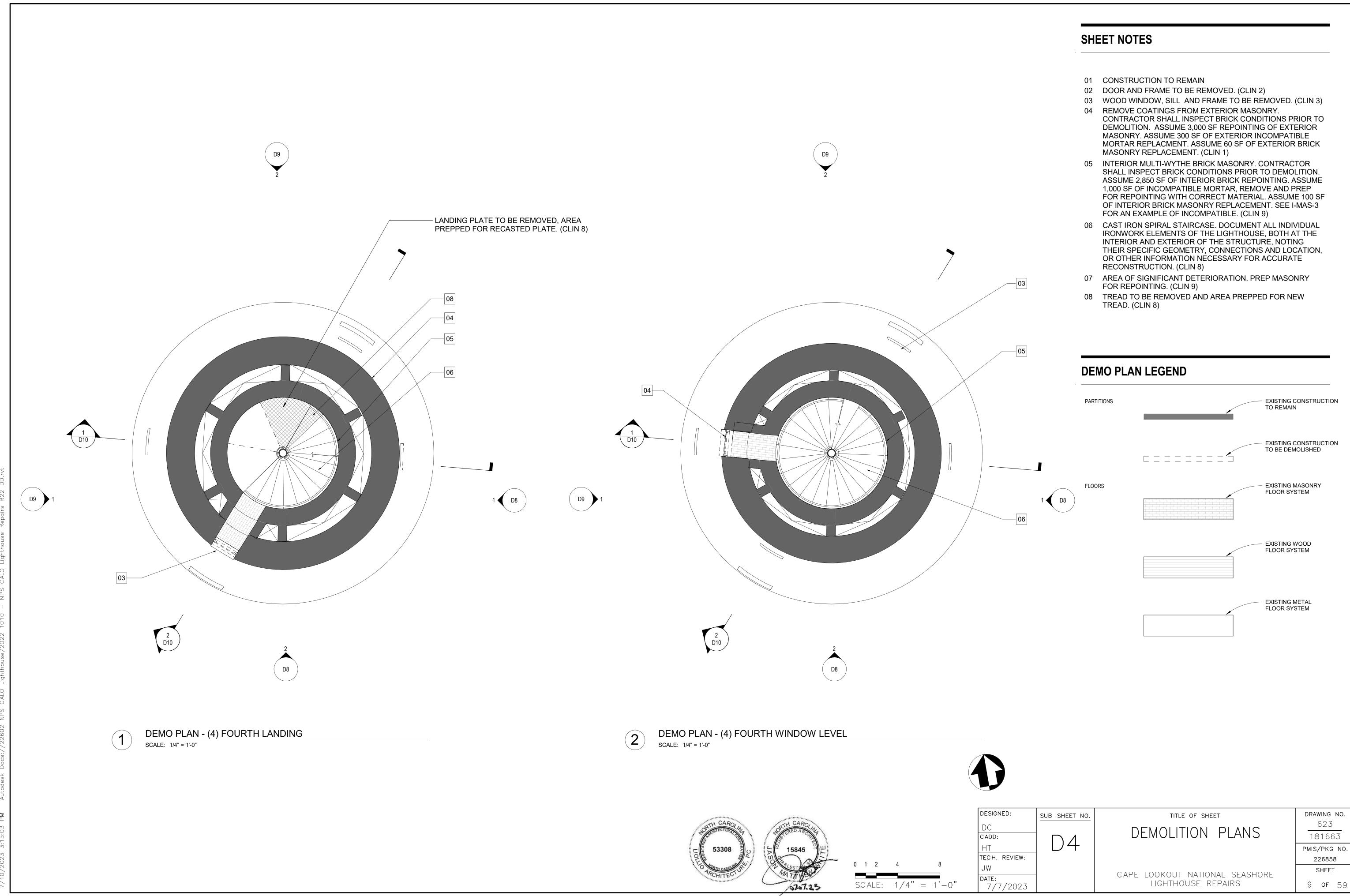




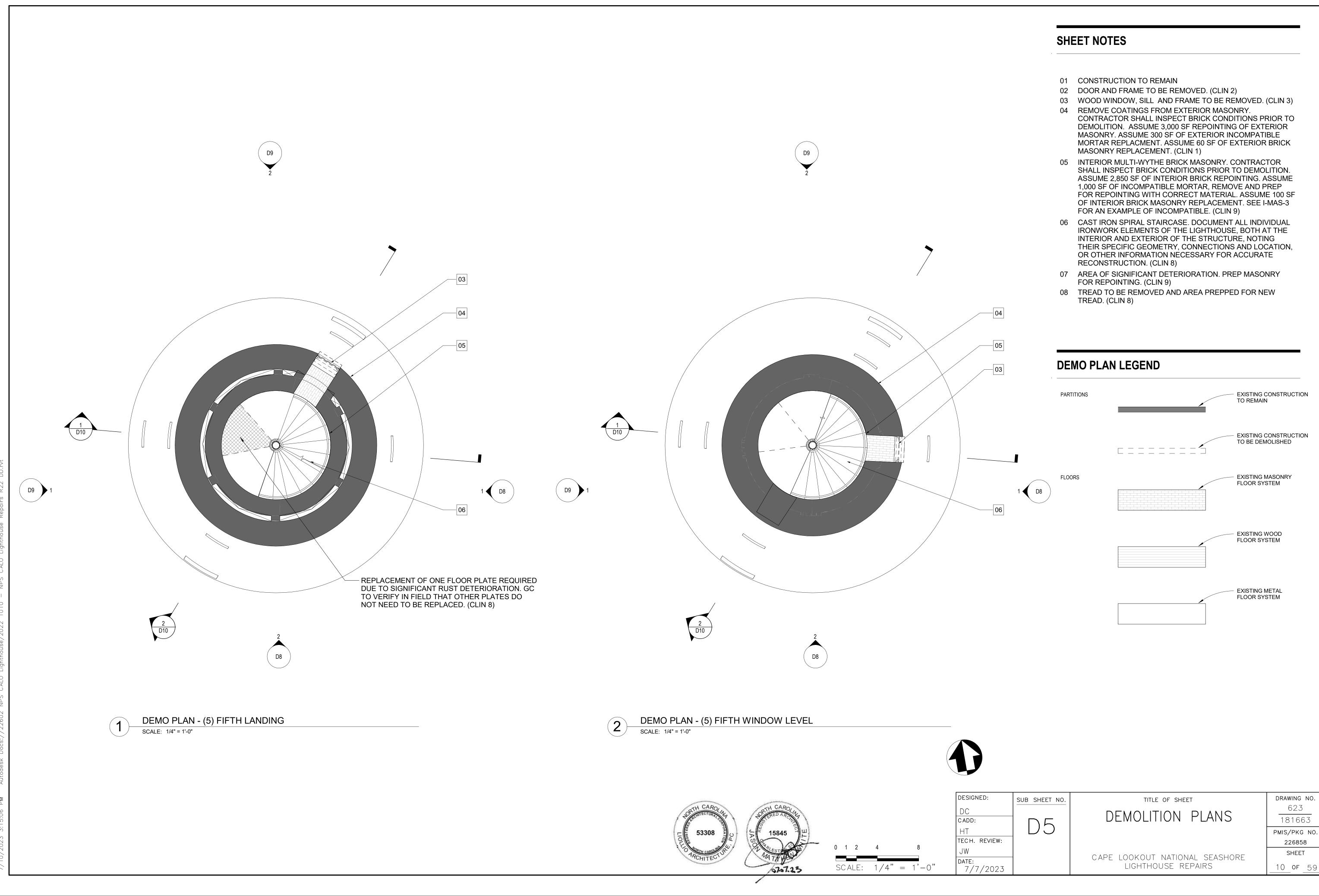




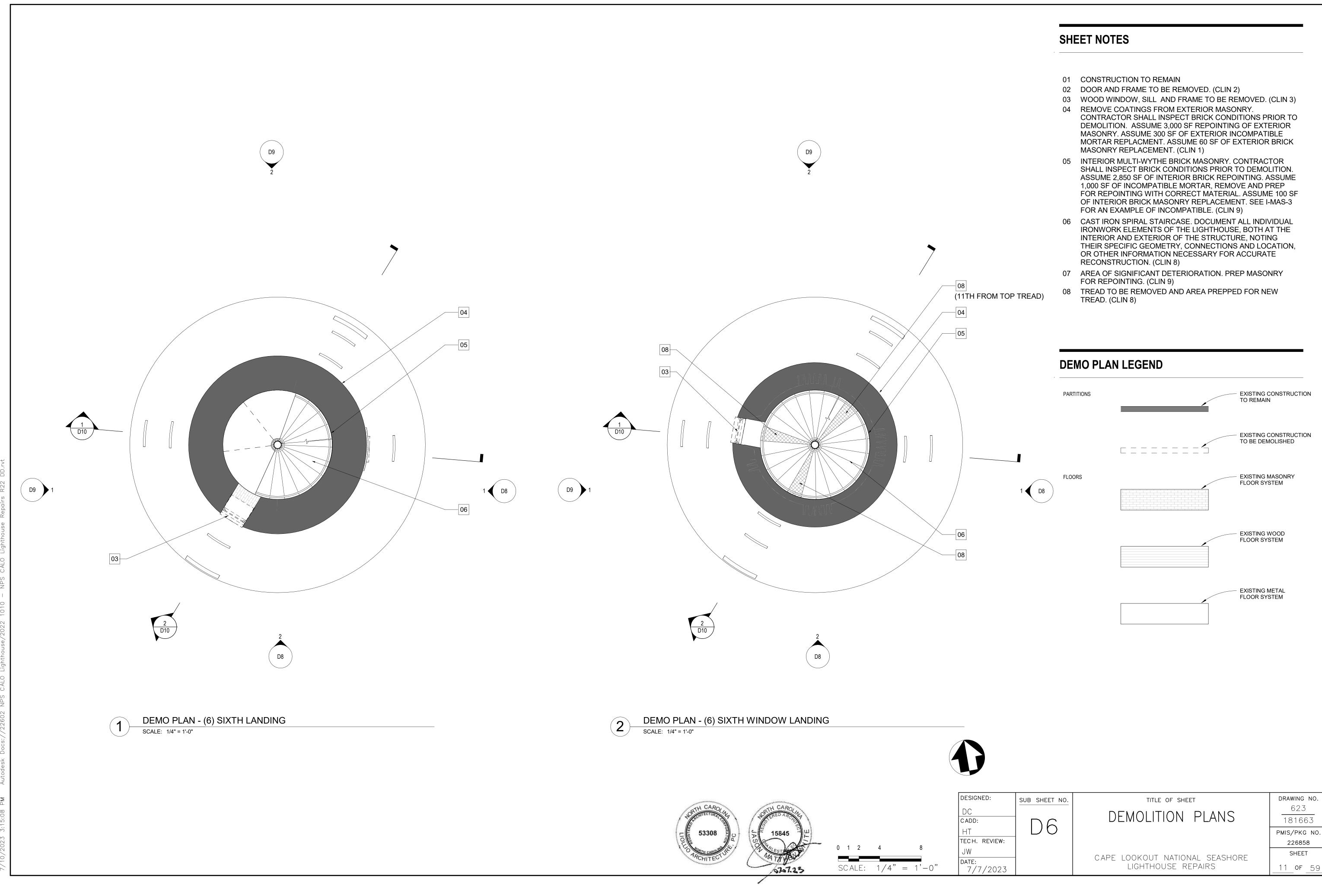


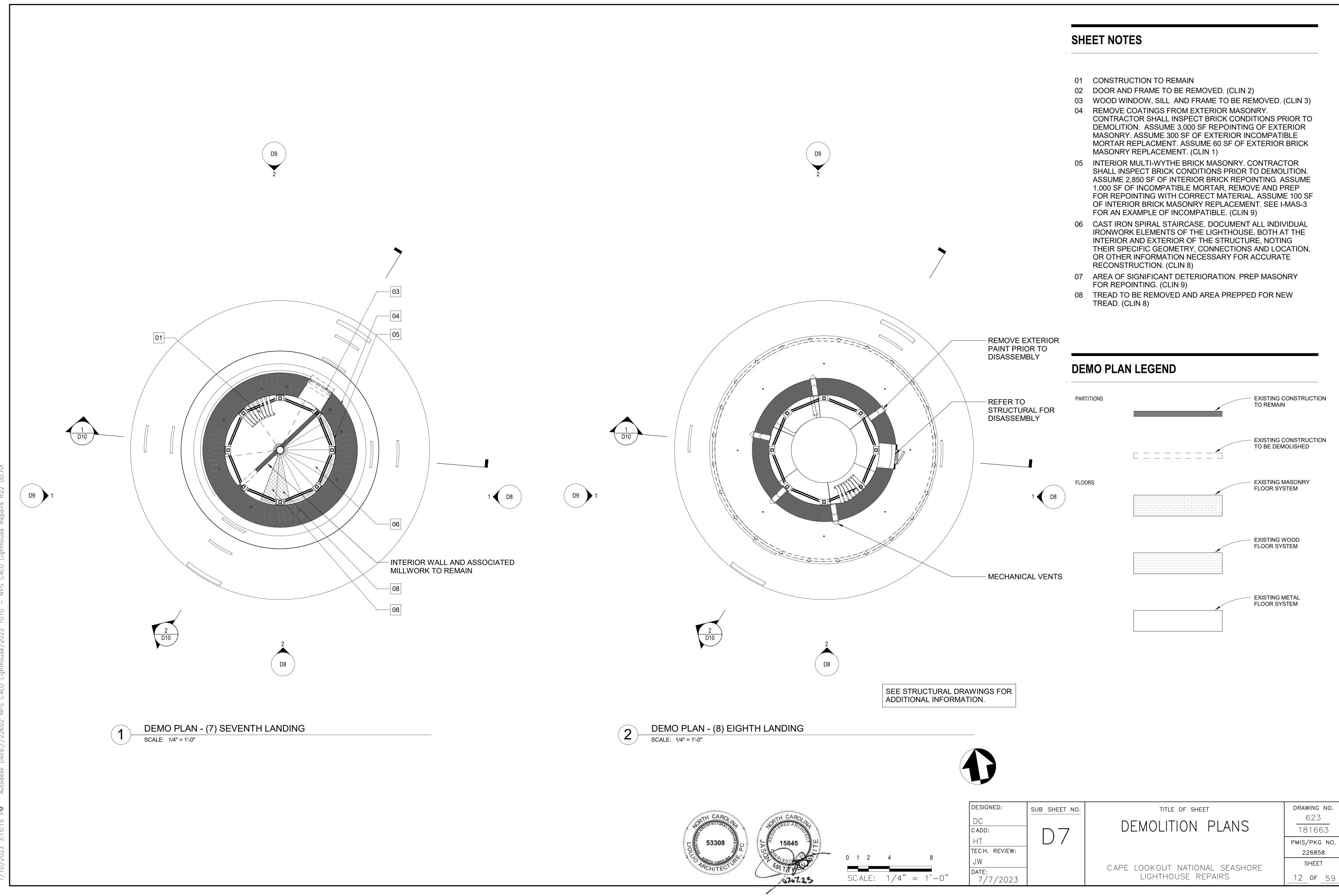


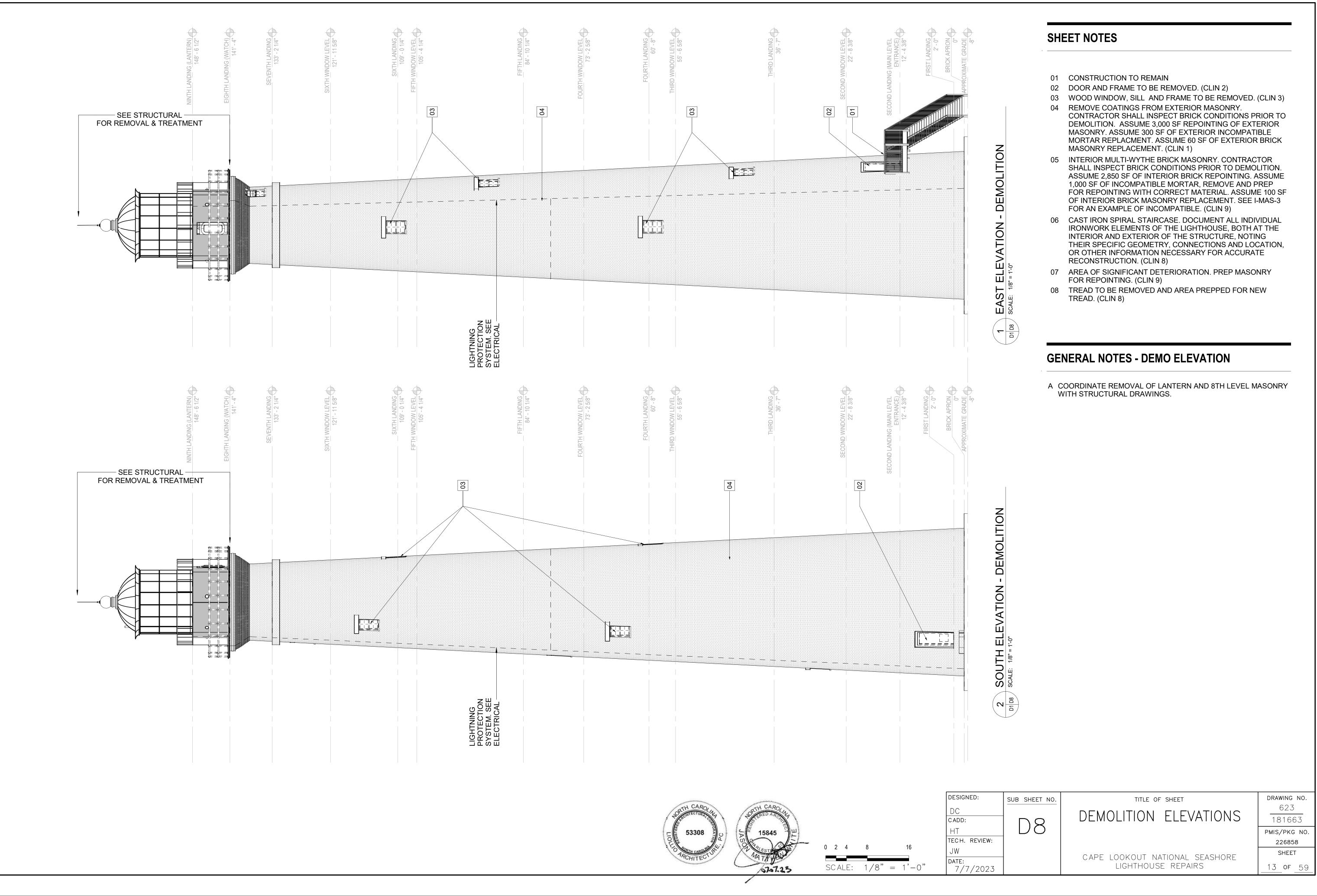


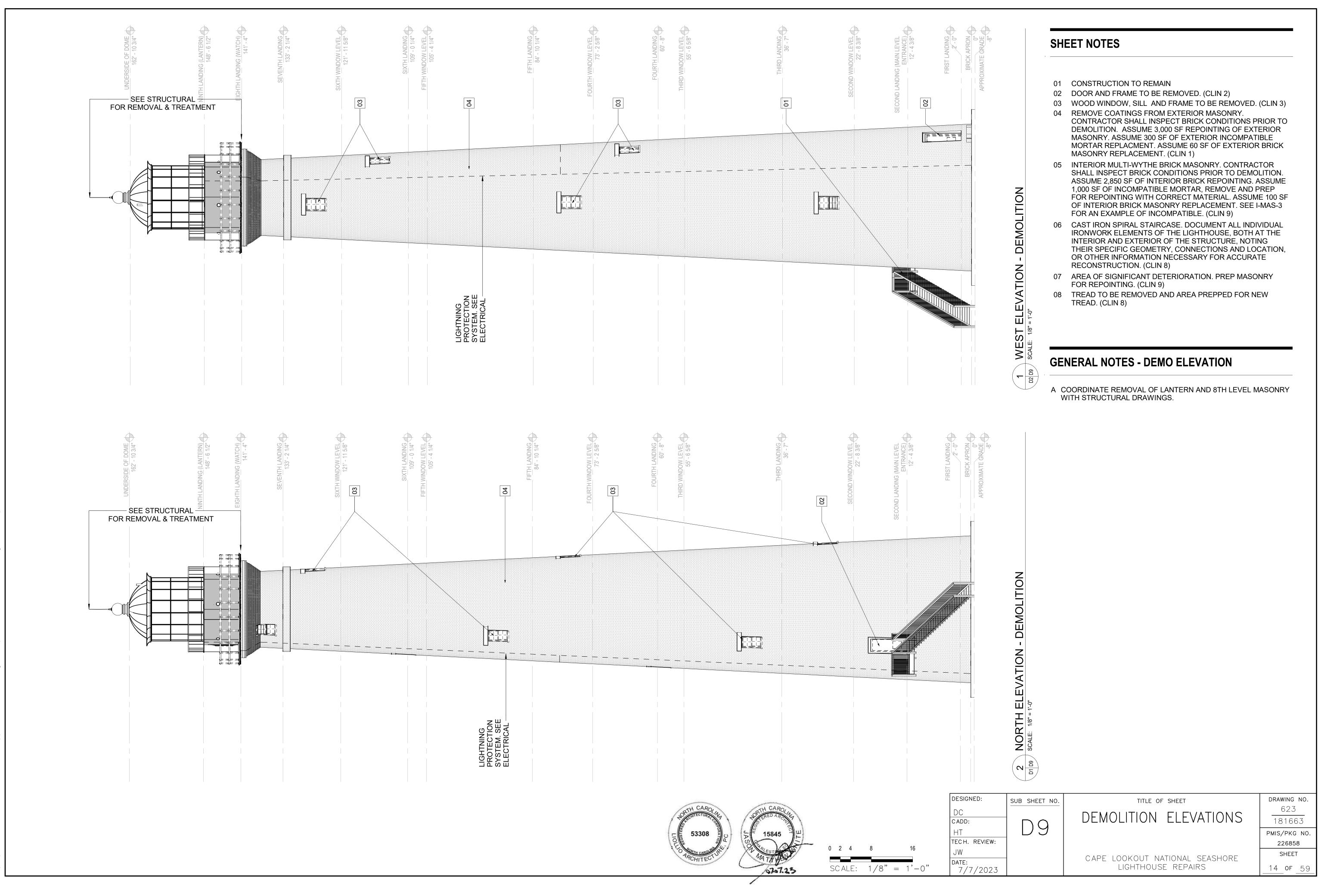




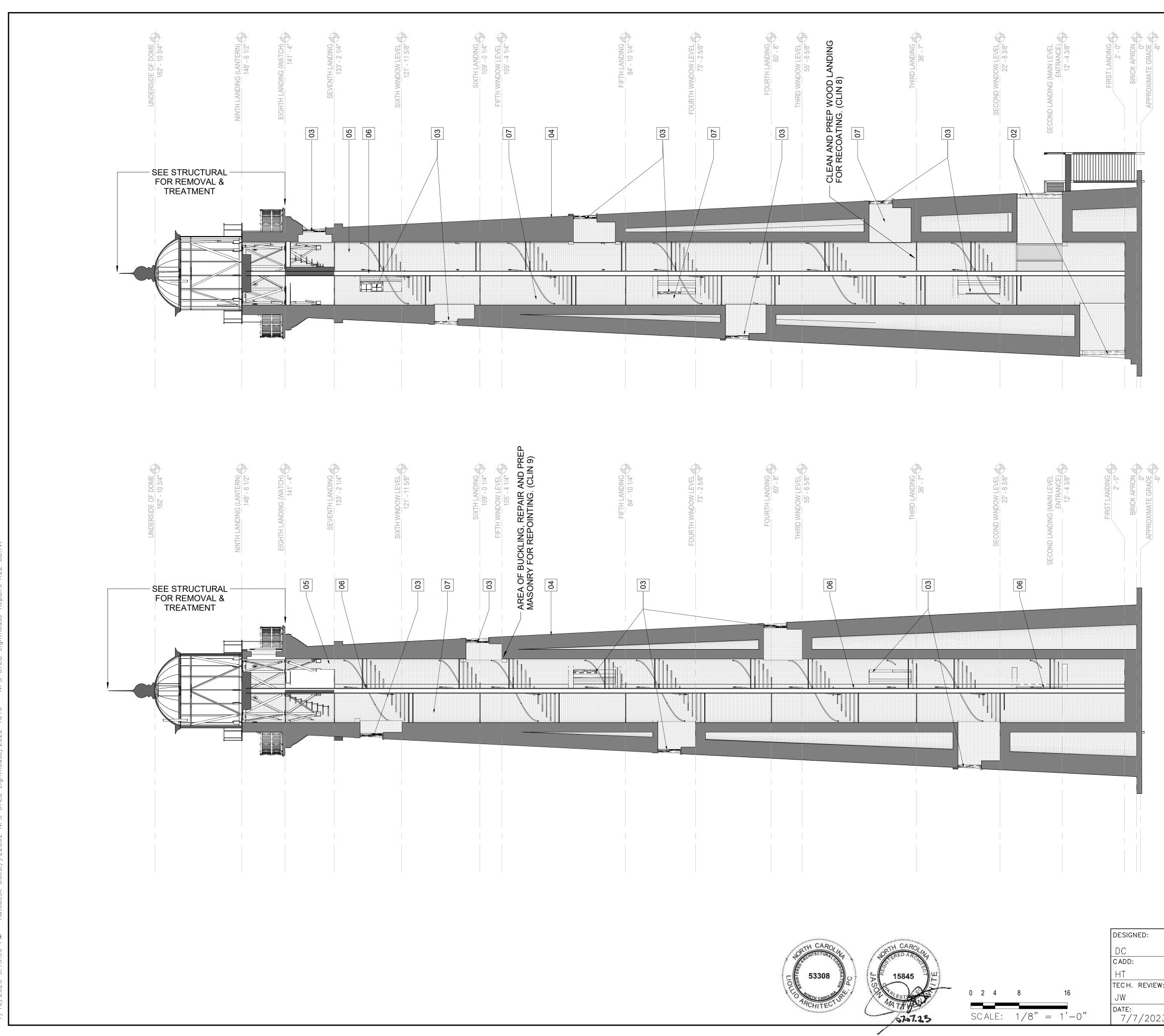








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SECTION

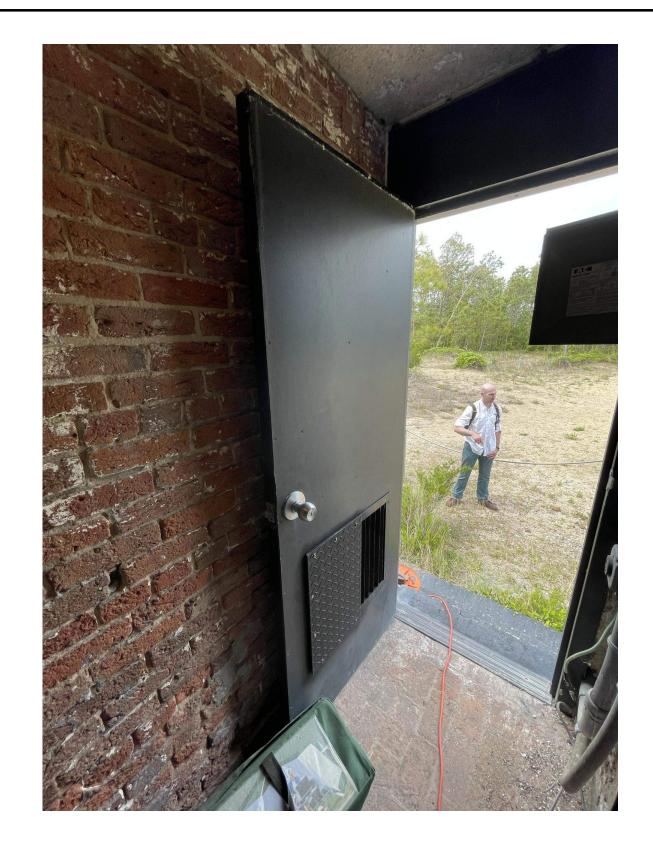
2 DEMO BUILDING



- 02 DOOR AND FRAME TO BE REMOVED. (CLIN 2)
- 03 WOOD WINDOW, SILL AND FRAME TO BE REMOVED. (CLIN 3)
- 04 REMOVE COATINGS FROM EXTERIOR MASONRY. CONTRACTOR SHALL INSPECT BRICK CONDITIONS PRIOR TO DEMOLITION. ASSUME 3,000 SF REPOINTING OF EXTERIOR MASONRY. ASSUME 300 SF OF EXTERIOR INCOMPATIBLE MORTAR REPLACMENT. ASSUME 60 SF OF EXTERIOR BRICK MASONRY REPLACEMENT. (CLIN 1)
- 05 INTERIOR MULTI-WYTHE BRICK MASONRY. CONTRACTOR SHALL INSPECT BRICK CONDITIONS PRIOR TO DEMOLITION. ASSUME 2,850 SF OF INTERIOR BRICK REPOINTING. ASSUME 1,000 SF OF INCOMPATIBLE MORTAR, REMOVE AND PREP FOR REPOINTING WITH CORRECT MATERIAL. ASSUME 100 SF OF INTERIOR BRICK MASONRY REPLACEMENT. SEE I-MAS-3 FOR AN EXAMPLE OF INCOMPATIBLE. (CLIN 9)
- 06 CAST IRON SPIRAL STAIRCASE. DOCUMENT ALL INDIVIDUAL IRONWORK ELEMENTS OF THE LIGHTHOUSE, BOTH AT THE INTERIOR AND EXTERIOR OF THE STRUCTURE, NOTING THEIR SPECIFIC GEOMETRY, CONNECTIONS AND LOCATION, OR OTHER INFORMATION NECESSARY FOR ACCURATE **RECONSTRUCTION. (CLIN 8)**
- 07 AREA OF SIGNIFICANT DETERIORATION. PREP MASONRY FOR REPOINTING. (CLIN 9)
- 08 TREAD TO BE REMOVED AND AREA PREPPED FOR NEW TREAD. (CLIN 8)



	1 DEMO BUILDING SECTION 1 scale: 1/8" = 1-0"	Image: mage: mag Image: mage:	
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LOWER LEVEL DOOR - EXISTING CONDITIONS

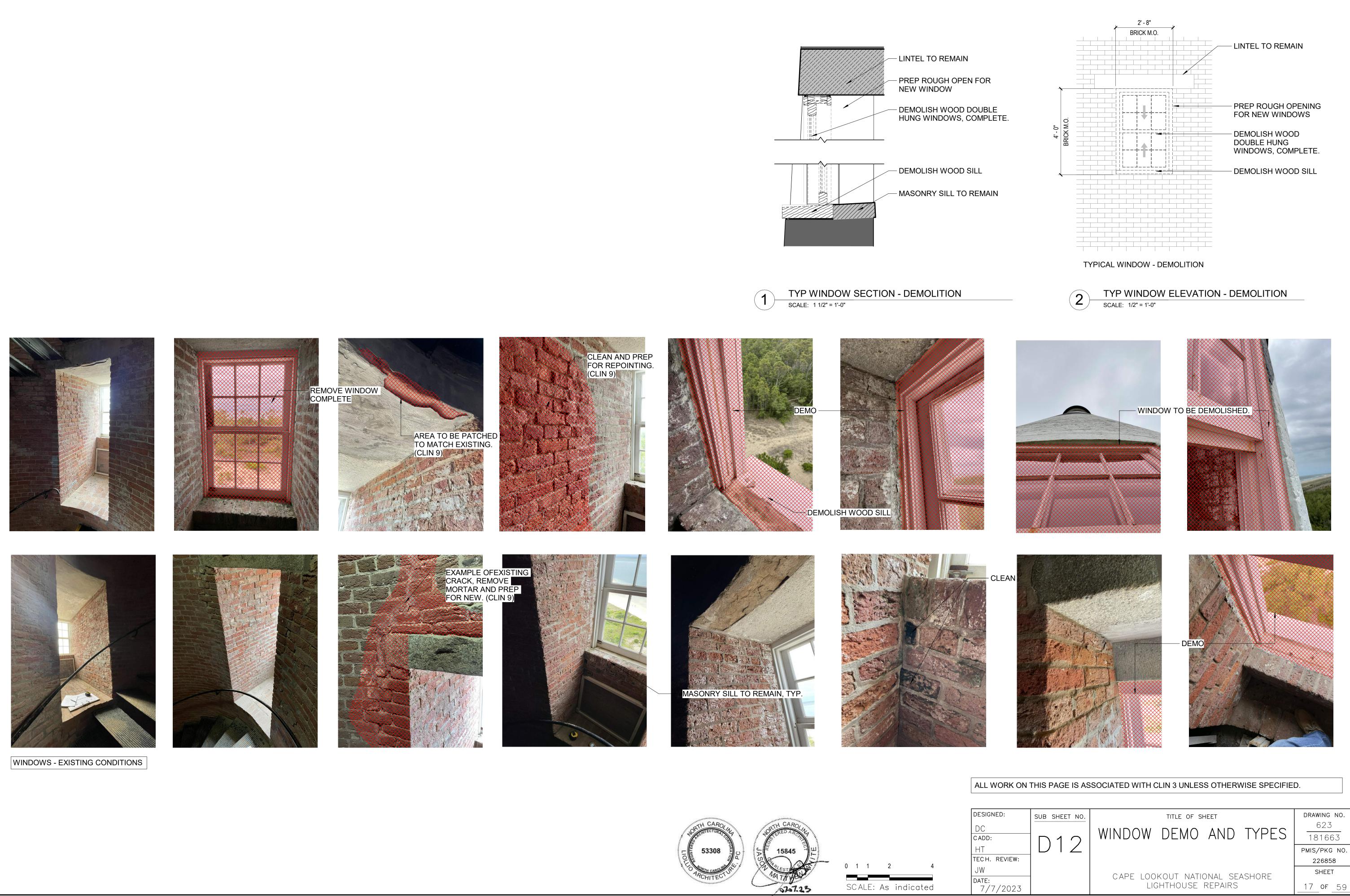


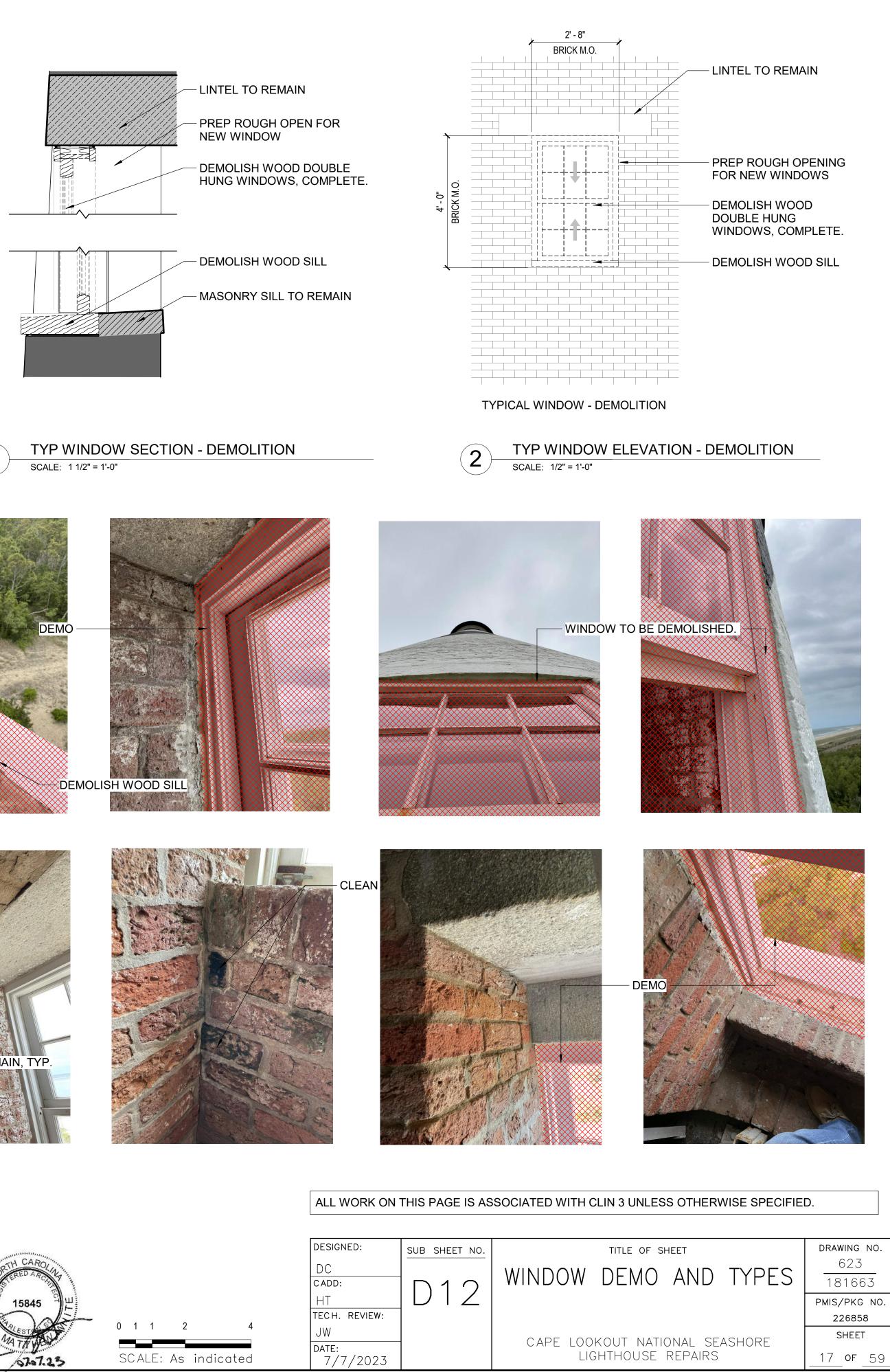
^{1&}lt;sup>ST</sup> LEVEL DOOR - EXISTING CONDITIONS

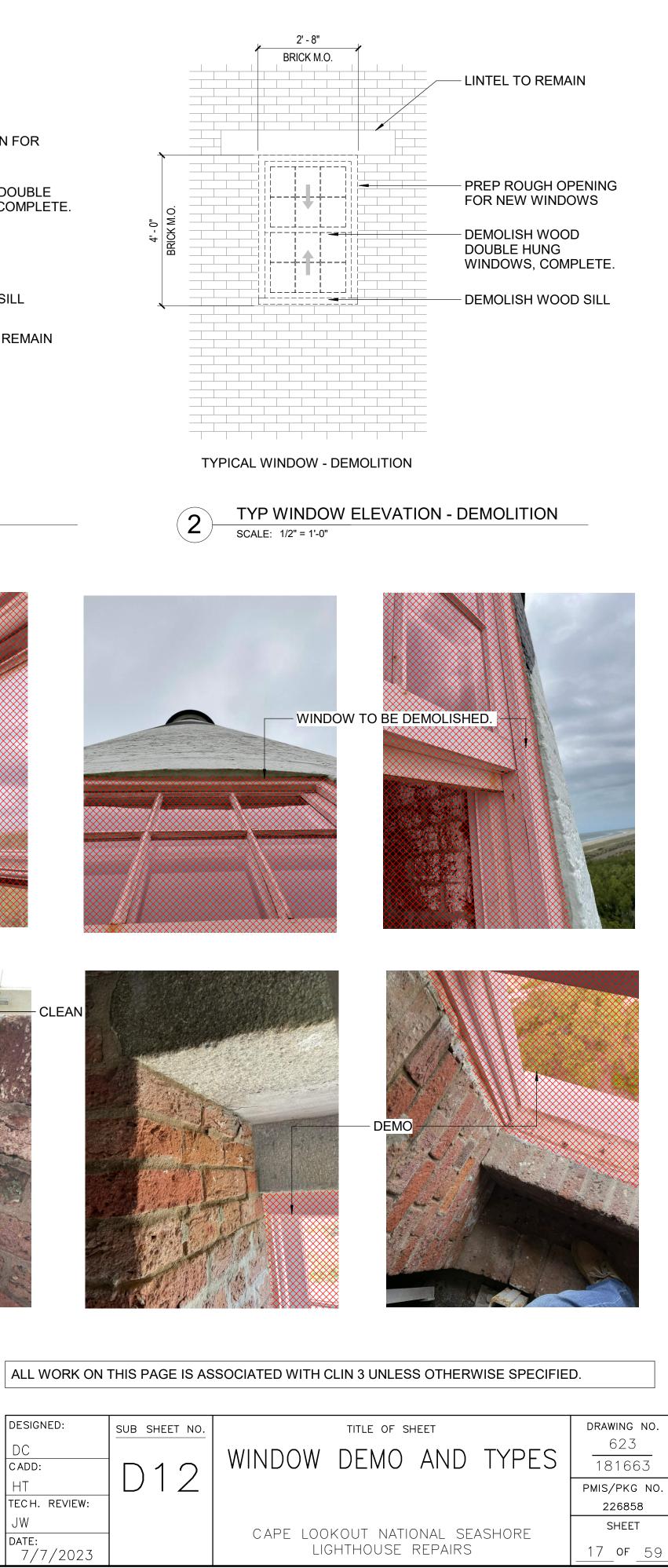


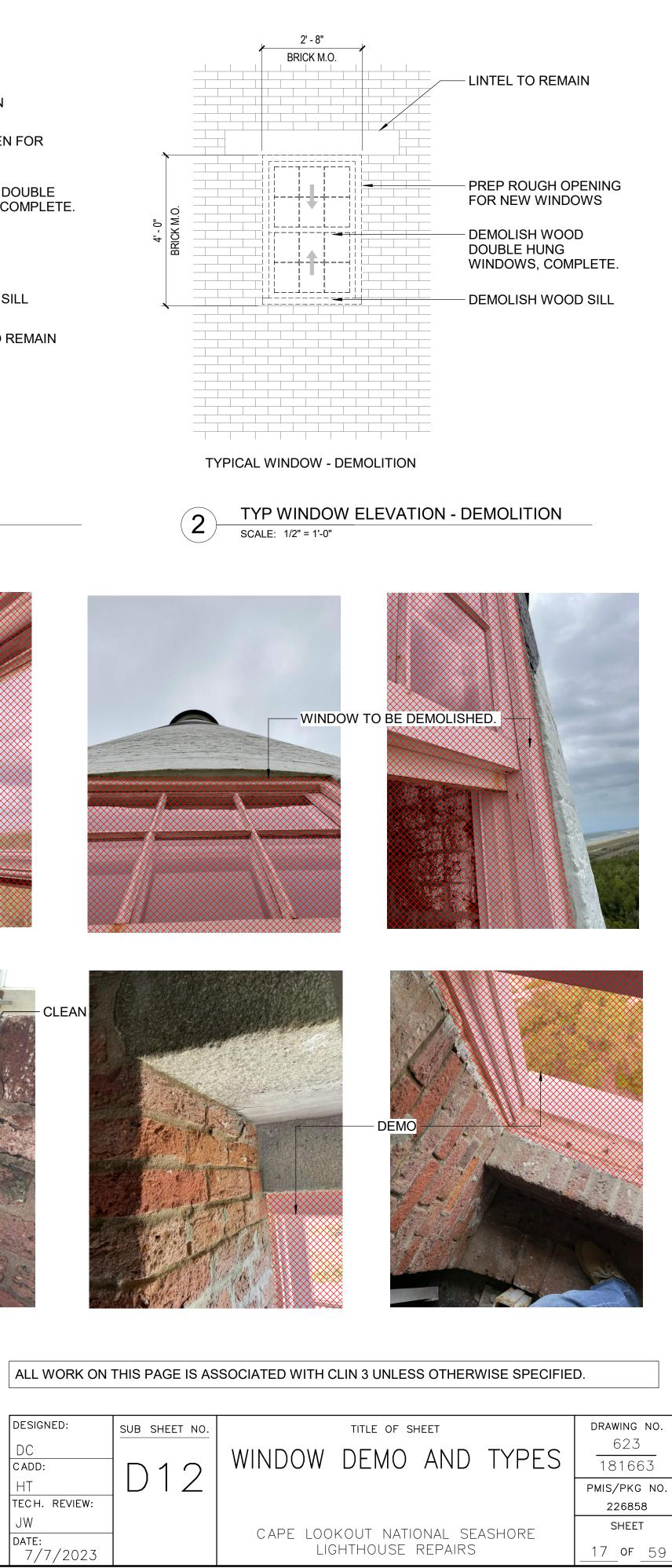


EXISTING CONDITIONS

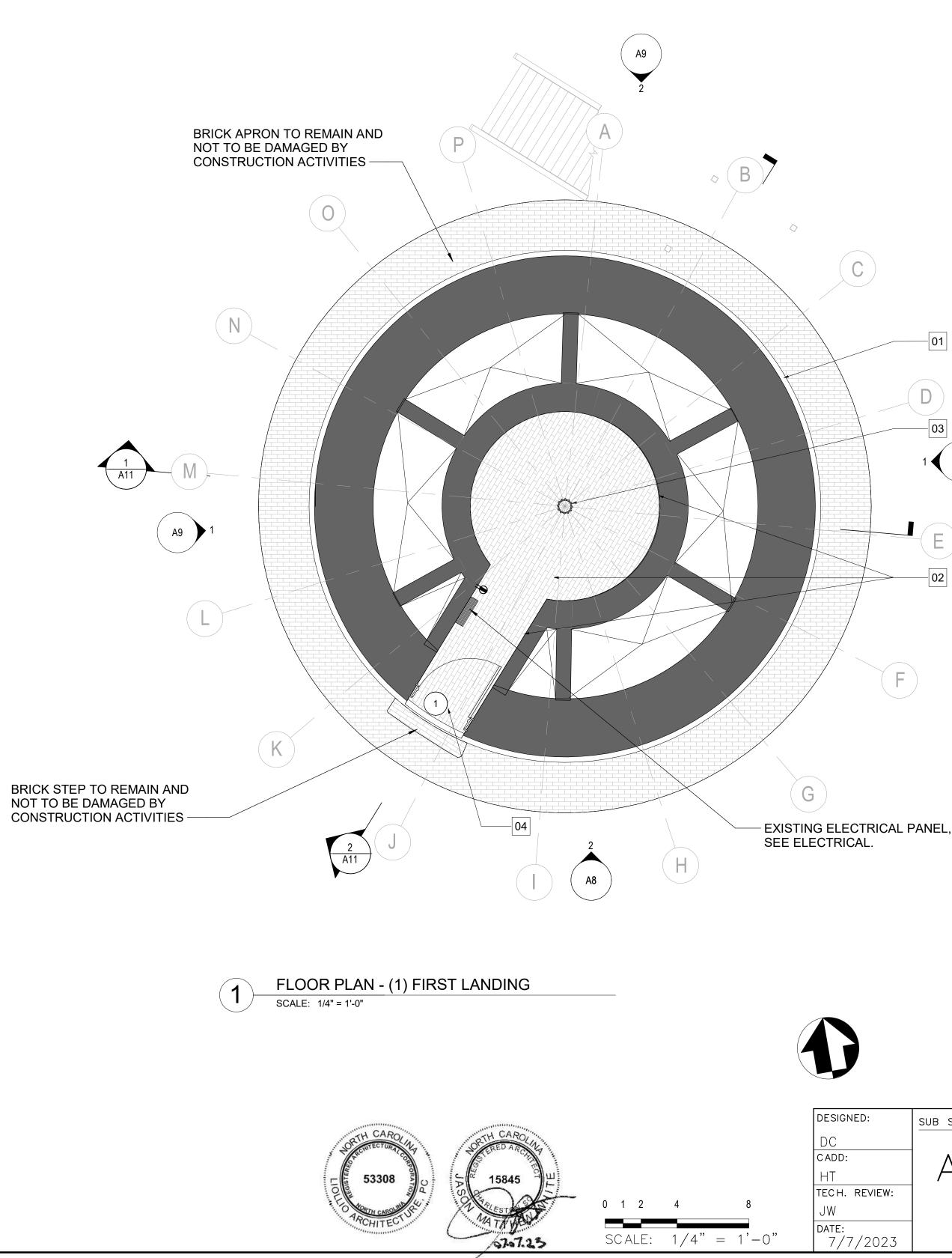


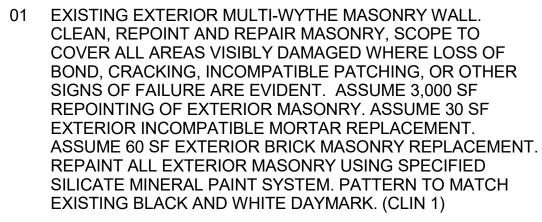










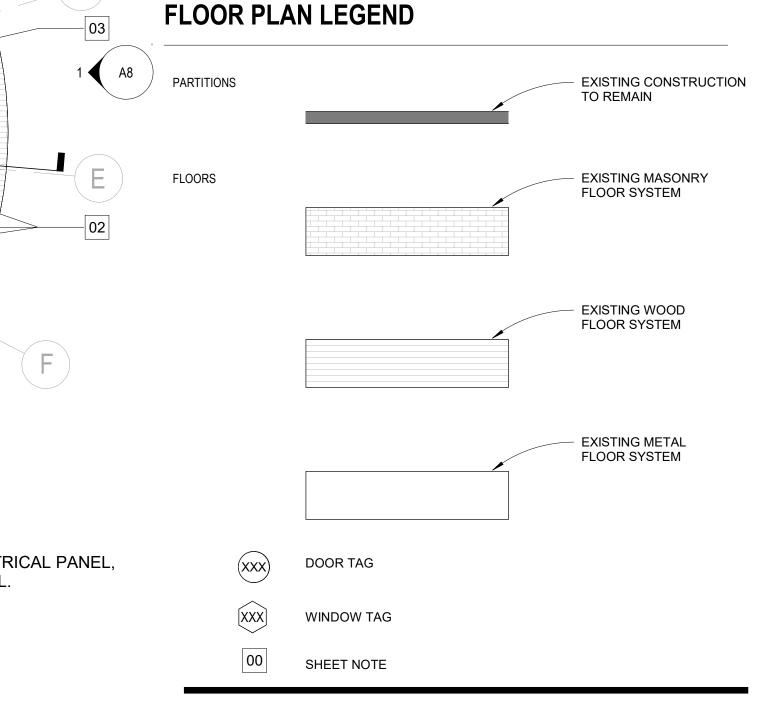


- 02 EXISTING INTERIOR MULTI-WYTHE BRICK MASONRY. CLEAN, REPOINT AND REPAIR. SCOPE TO COVER ALL AREAS VISIBLY DAMAGED WHERE LOSS OF BOND, CRACKING, INCOMPATIBLE PATCHING, OR OTHER SIGNS OF FAILURE ARE EVIDENT. ASSUME 2,850 SF OF INTERIOR BRICK REPOINTING. ASSUME 1,000 SF OF INCOMPATIBLE MORTAR, REMOVE AND PREP FOR REPOINTING WITH CORRECT MATERIAL. ASSUME 100 SF OF INTERIOR BRICK MASONRY REPLACEMENT. ASSUME SEE I-MAS-3 FOR AN EXAMPLE OF INCOMPATIBE MORTAR. (CLIN 9)
- EXISTING CAST IRON SPIRAL STAIRCASE. CLEAN AND 03 RECOAT ALL ELEMENTS, INCLUDING BUT NOT LIMITED TO TREADS, LANDINGS AND HANDRAILS. FOR ALL EXISTING CAST IRON OR STEEL THAT IS CURRENTLY PAINTED WHERE DETERIORATION AND RUST IS EVIDENT, CLEAN DOWN TO BRIGHT METAL AND, WITHIN 2 HOURS, COAT WITH A ZINC-RICH THREE PART EPOXY PRIMER. OVERCOAT THIRD AND FOURTH COATS WITH ACRYLIC POLYURETHANE OR TWO-PART POLYSILOXANE. SEE SPECIFICATION. (CLIN 8)
- 04 INSTALL DOOR PER DOOR DETAILS. (CLIN 2)

-01

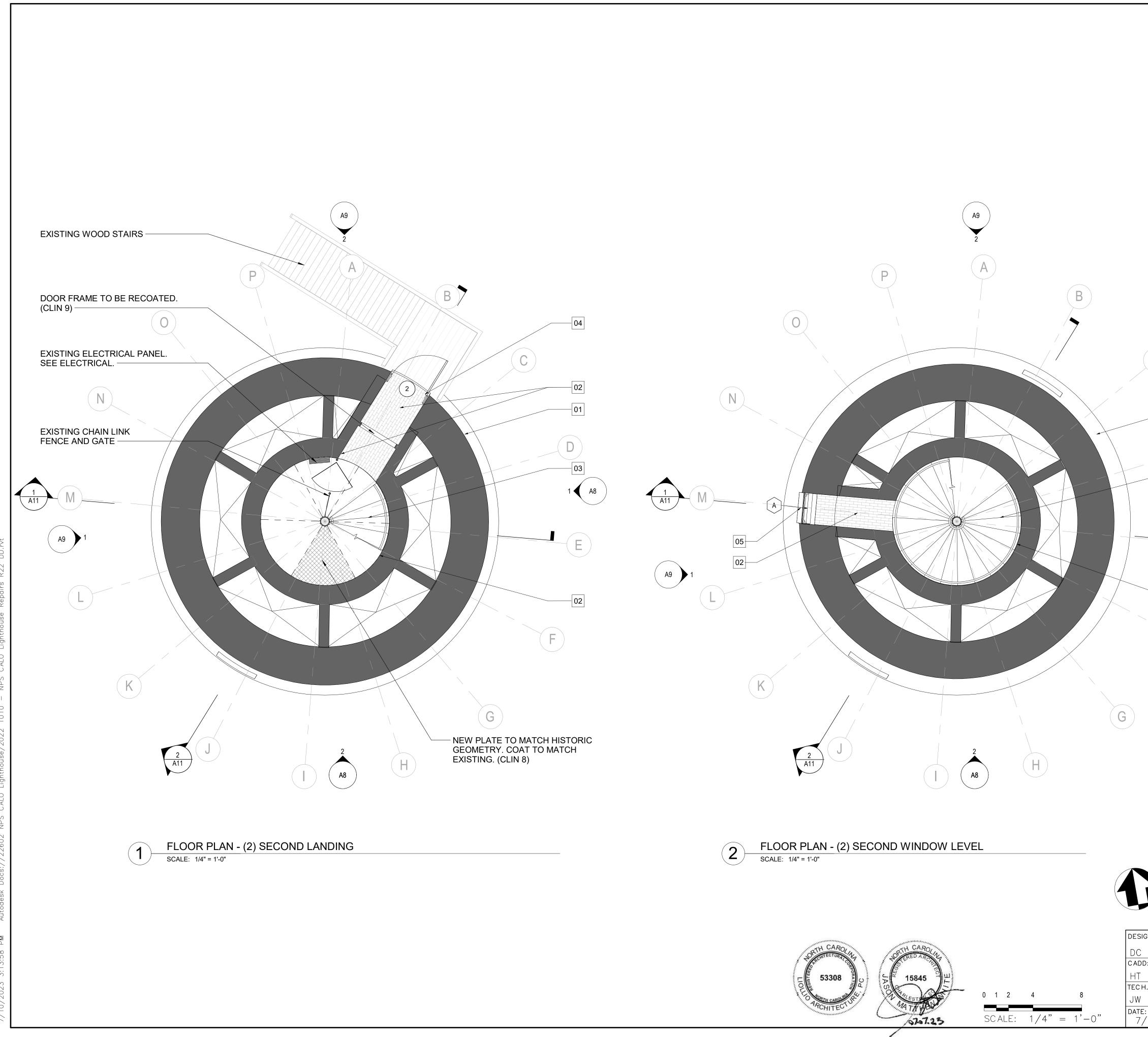
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- 05 INSTALL WINDOW PER WINDOW DETAIL. (CLIN 3)
- 06 SIGNIFICANT AREA OF REPOINTING (CLIN 9) 07 NEW TREAD TO BE COATED TO MATCH HISTORIC
- RECOATED TREADS (CLIN 8)



- A GC TO FIELD VERIFY ALL BUILDING DIMENSIONS
- B GC TO COORDINATE ALL MECHANICAL & ELECTRICAL DEVICES WITH ARCHITECTURAL AND STRUCTURAL.
- C REFER TO SHEET G2 FOR ADDITIONAL NOTES & SYMBOLS.
- D MASONRY SALVAGED FROM DEMOLITION PHASE SHALL BE REINSTALLED IN THIS PHASE.

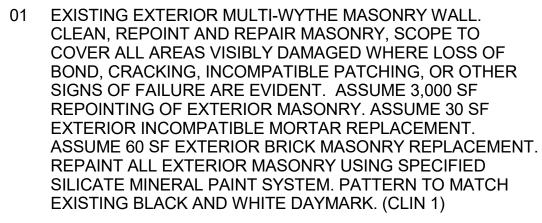
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	AI		PMIS/PKG NO.
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		CAPE LOOKOUT NATIONAL SEASHORE	SHEET
7/2023		LIGHTHOUSE REPAIRS	0F59



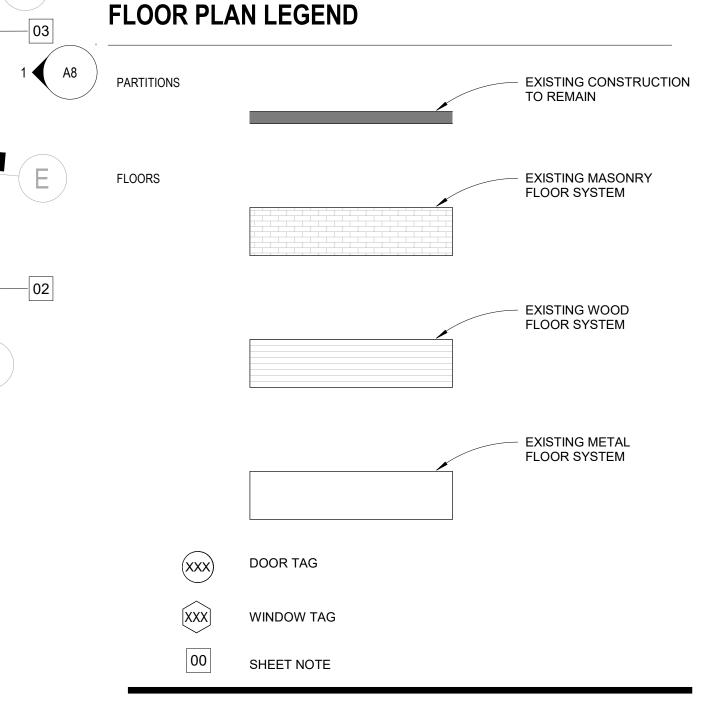
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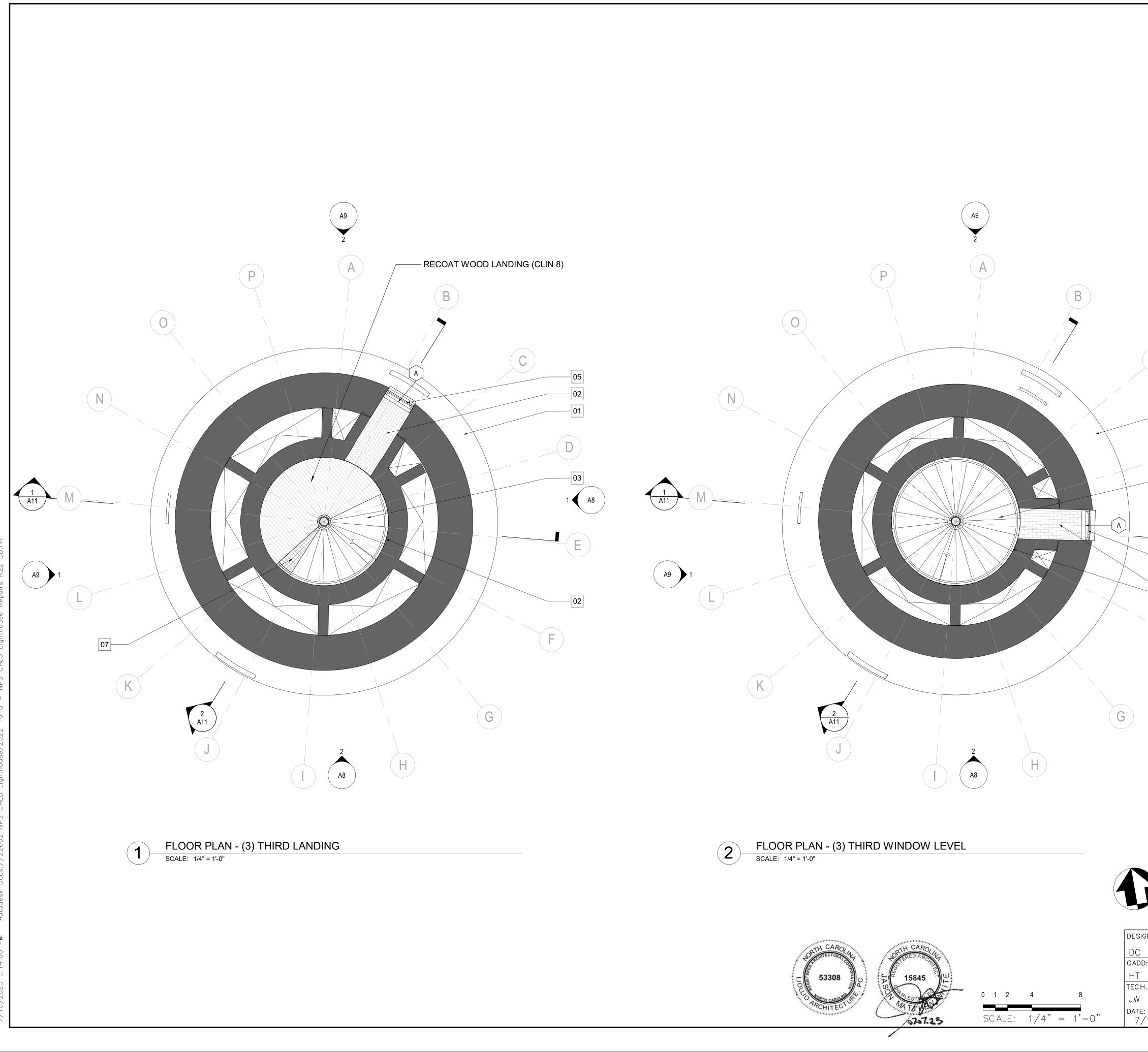


- 02 EXISTING INTERIOR MULTI-WYTHE BRICK MASONRY. CLEAN, REPOINT AND REPAIR. SCOPE TO COVER ALL AREAS VISIBLY DAMAGED WHERE LOSS OF BOND, CRACKING, INCOMPATIBLE PATCHING, OR OTHER SIGNS OF FAILURE ARE EVIDENT. ASSUME 2,850 SF OF INTERIOR BRICK REPOINTING. ASSUME 1,000 SF OF INCOMPATIBLE MORTAR, REMOVE AND PREP FOR REPOINTING WITH CORRECT MATERIAL. ASSUME 100 SF OF INTERIOR BRICK MASONRY REPLACEMENT. ASSUME SEE I-MAS-3 FOR AN EXAMPLE OF INCOMPATIBE MORTAR. (CLIN 9)
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		CAPE LOOKOUT NATIONAL SEASHORE	SHEET
7/2023		LIGHTHOUSE REPAIRS	19 OF 59



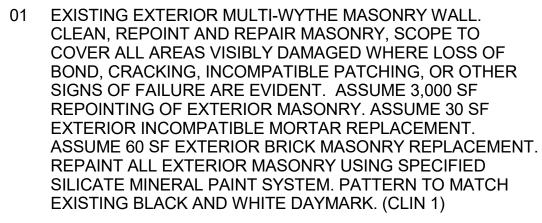
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SHEET NOTES

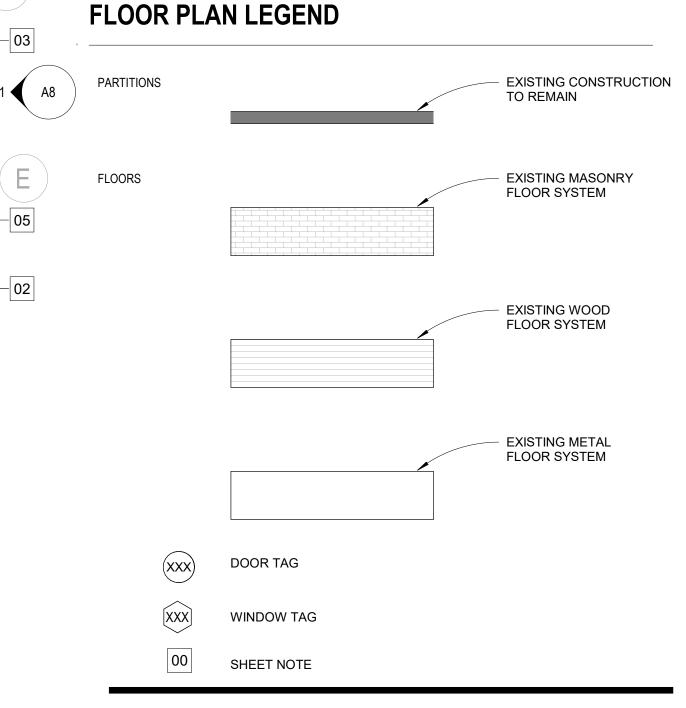
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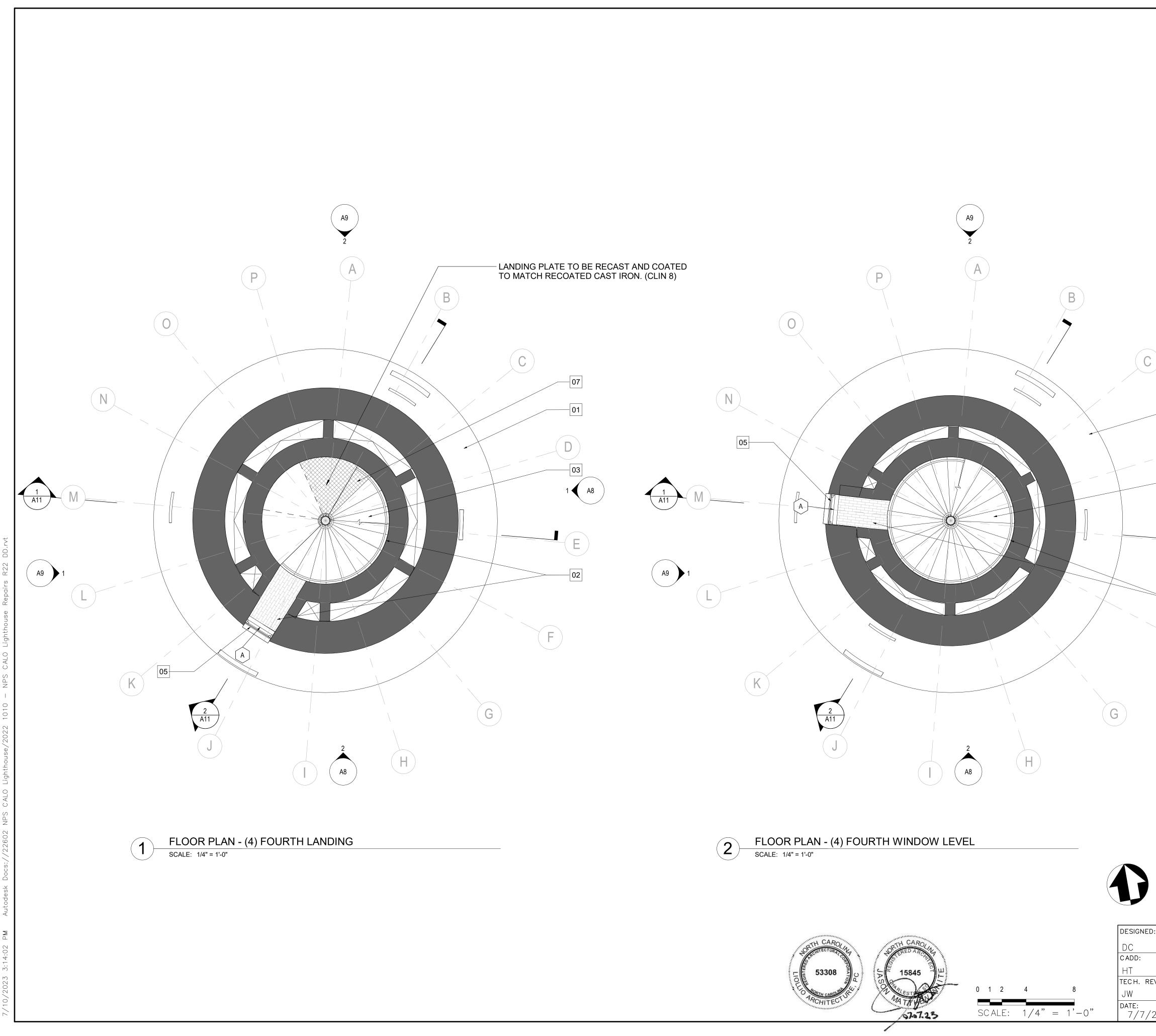


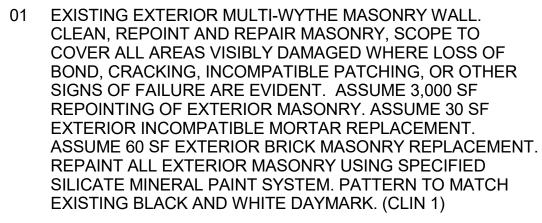
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- A GC TO FIELD VERIFY ALL BUILDING DIMENSIONS
- B GC TO COORDINATE ALL MECHANICAL & ELECTRICAL DEVICES WITH ARCHITECTURAL AND STRUCTURAL.
- C REFER TO SHEET G2 FOR ADDITIONAL NOTES & SYMBOLS.
- D MASONRY SALVAGED FROM DEMOLITION PHASE SHALL BE REINSTALLED IN THIS PHASE.

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	AJ		PMIS/PKG NO.
REVIEW:			226858
		CAPE LOOKOUT NATIONAL SEASHORE	SHEET
7/2023		LIGHTHOUSE REPAIRS	20 of 59



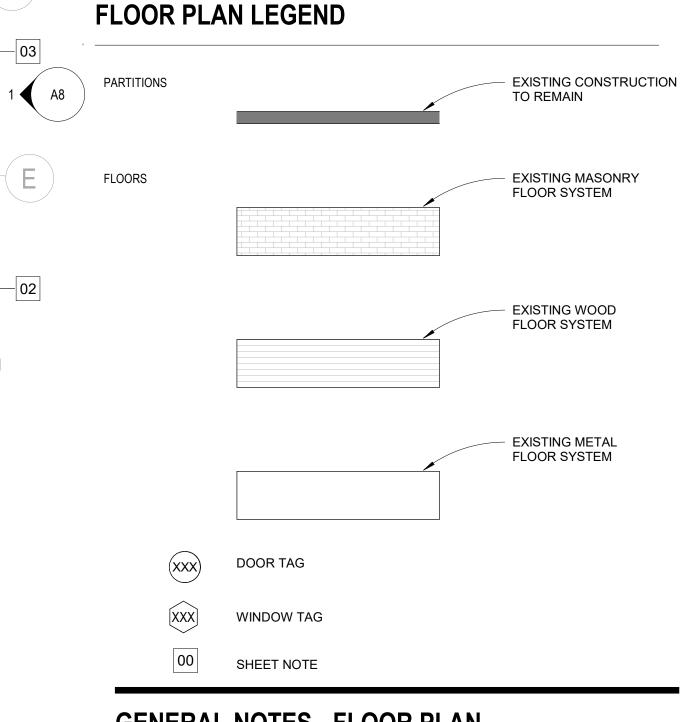


- 02 EXISTING INTERIOR MULTI-WYTHE BRICK MASONRY. CLEAN, REPOINT AND REPAIR. SCOPE TO COVER ALL AREAS VISIBLY DAMAGED WHERE LOSS OF BOND, CRACKING, INCOMPATIBLE PATCHING, OR OTHER SIGNS OF FAILURE ARE EVIDENT. ASSUME 2,850 SF OF INTERIOR BRICK REPOINTING. ASSUME 1,000 SF OF INCOMPATIBLE MORTAR, REMOVE AND PREP FOR REPOINTING WITH CORRECT MATERIAL. ASSUME 100 SF OF INTERIOR BRICK MASONRY REPLACEMENT. ASSUME SEE I-MAS-3 FOR AN EXAMPLE OF INCOMPATIBE MORTAR. (CLIN 9)
- 03 EXISTING CAST IRON SPIRAL STAIRCASE. CLEAN AND RECOAT ALL ELEMENTS, INCLUDING BUT NOT LIMITED TO TREADS, LANDINGS AND HANDRAILS. FOR ALL EXISTING CAST IRON OR STEEL THAT IS CURRENTLY PAINTED WHERE DETERIORATION AND RUST IS EVIDENT, CLEAN DOWN TO BRIGHT METAL AND, WITHIN 2 HOURS, COAT WITH A ZINC-RICH THREE PART EPOXY PRIMER. OVERCOAT THIRD AND FOURTH COATS WITH ACRYLIC POLYURETHANE OR TWO-PART POLYSILOXANE. SEE SPECIFICATION. (CLIN 8)
- 04 INSTALL DOOR PER DOOR DETAILS. (CLIN 2)

-01

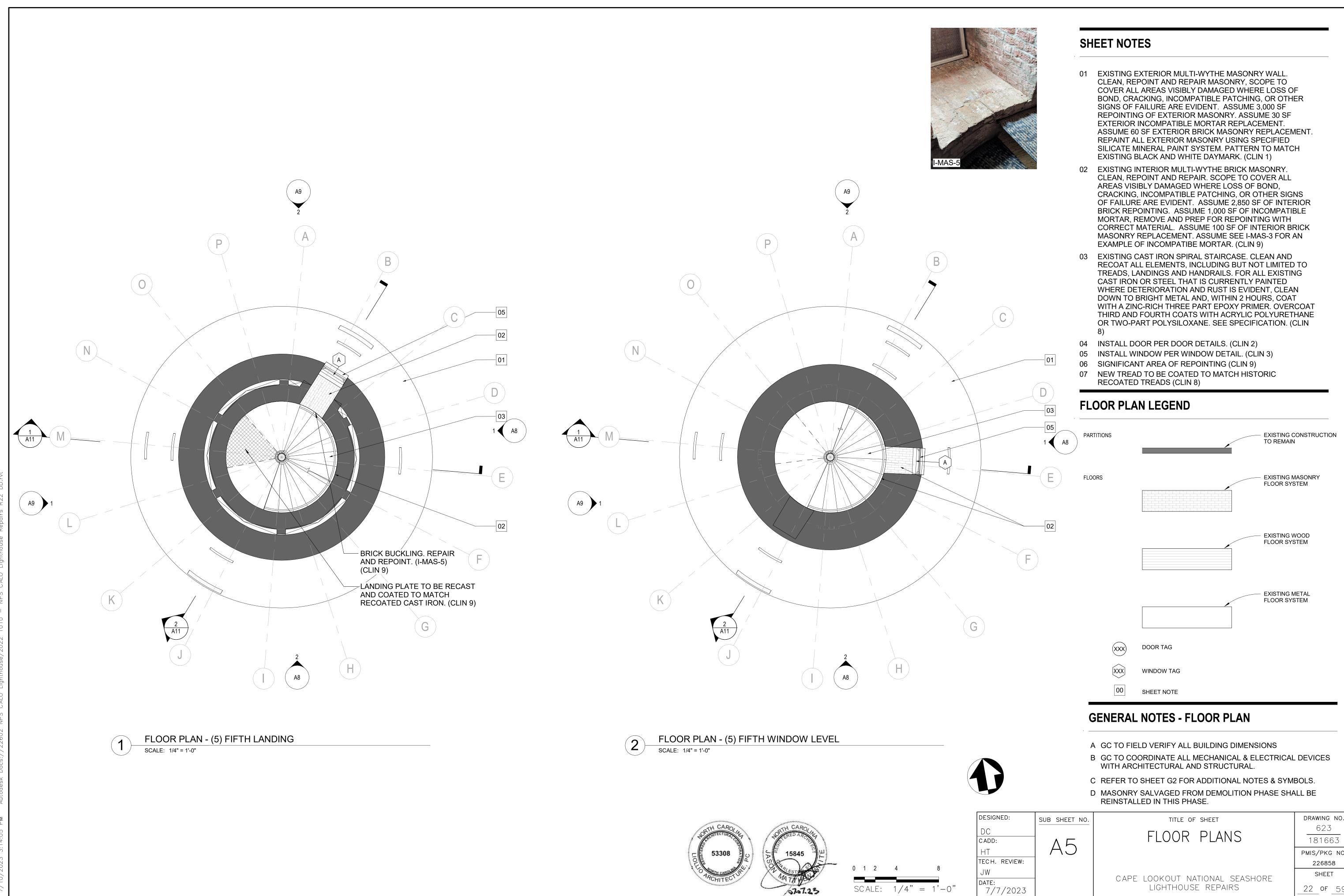
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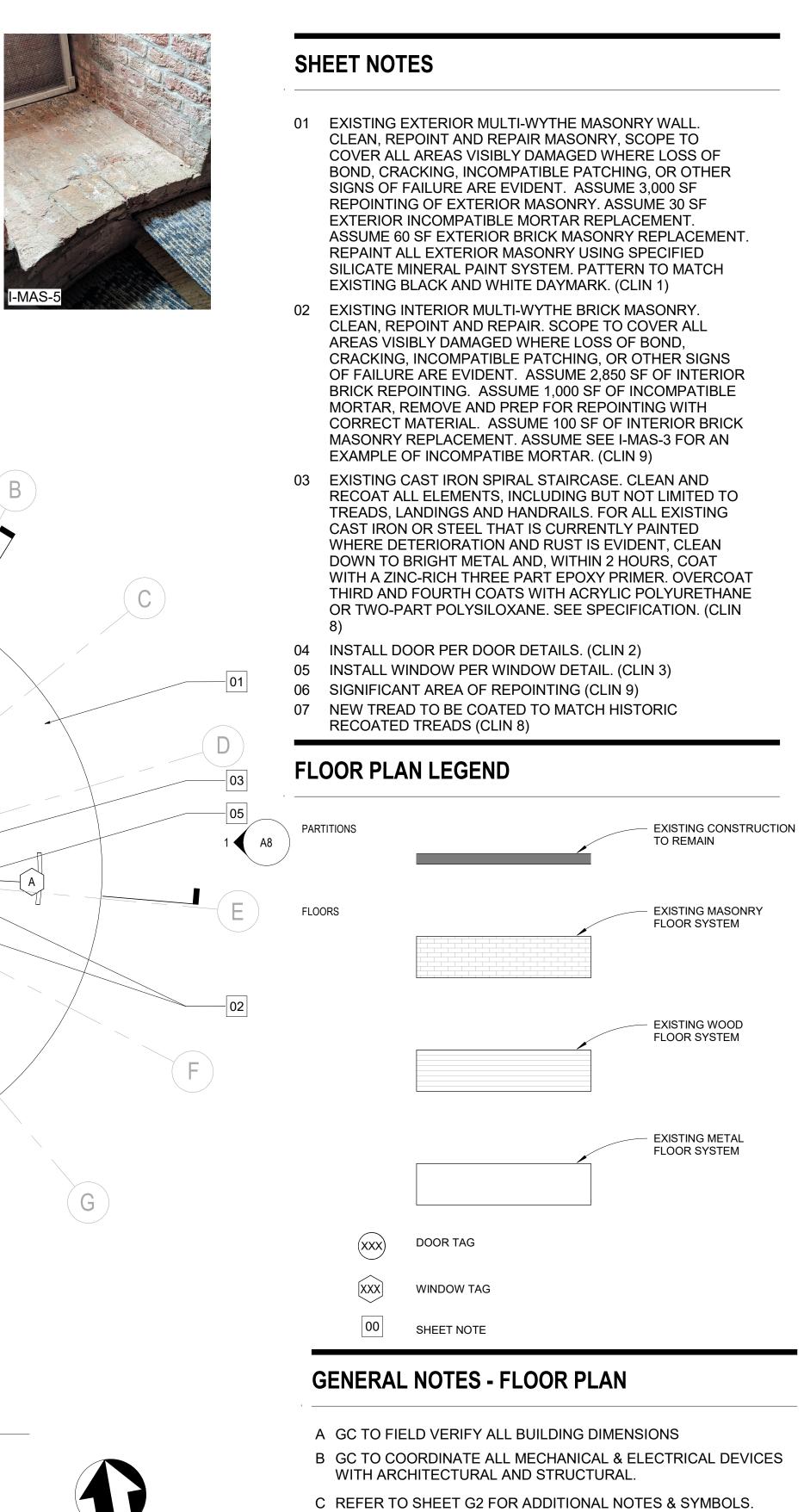
- 05 INSTALL WINDOW PER WINDOW DETAIL. (CLIN 3)
- 06 SIGNIFICANT AREA OF REPOINTING (CLIN 9)07 NEW TREAD TO BE COATED TO MATCH HISTORIC
- RECOATED TREADS (CLIN 8)



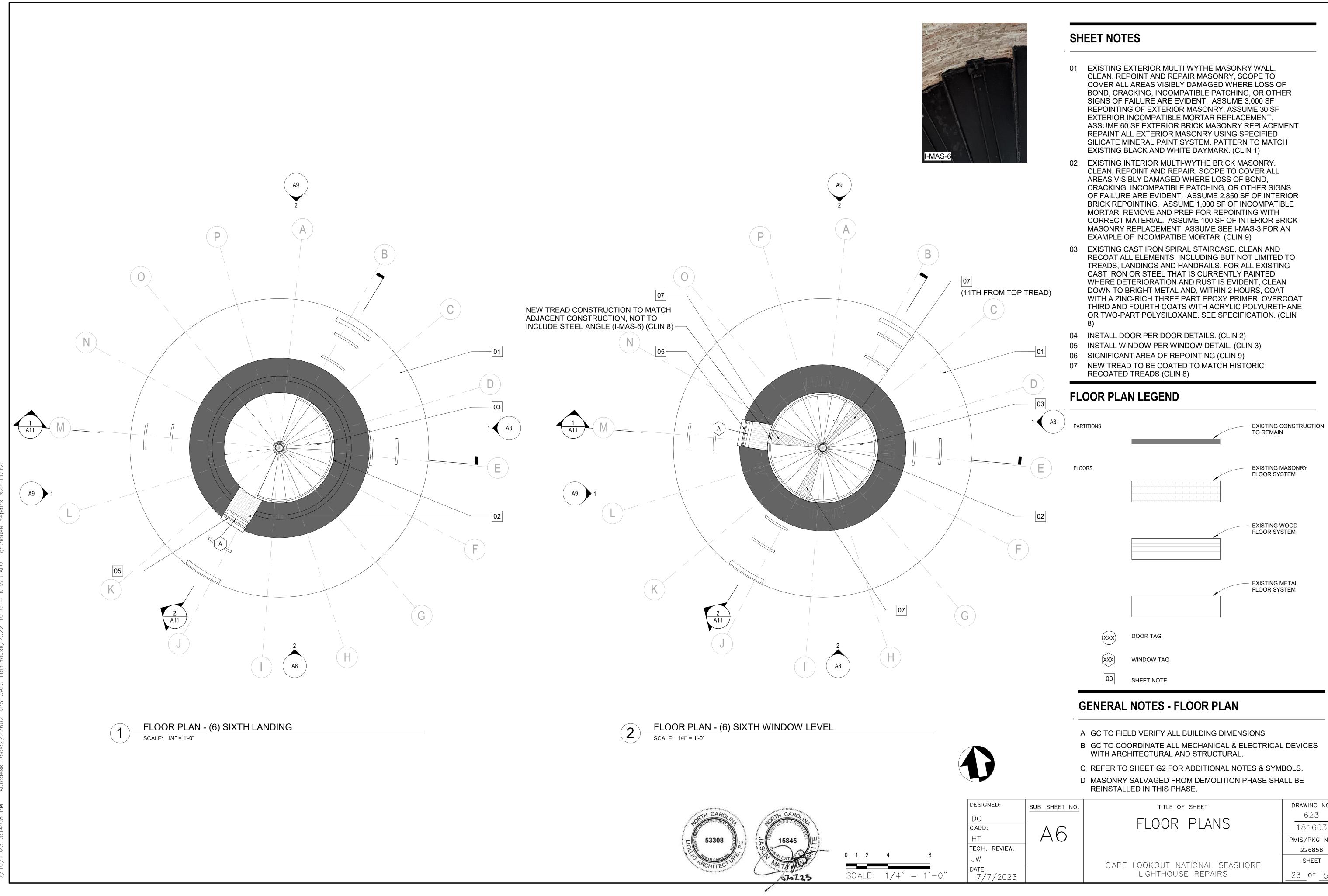
- **GENERAL NOTES FLOOR PLAN**
- A GC TO FIELD VERIFY ALL BUILDING DIMENSIONS
- B GC TO COORDINATE ALL MECHANICAL & ELECTRICAL DEVICES WITH ARCHITECTURAL AND STRUCTURAL.
- C REFER TO SHEET G2 FOR ADDITIONAL NOTES & SYMBOLS.
- D MASONRY SALVAGED FROM DEMOLITION PHASE SHALL BE REINSTALLED IN THIS PHASE.

NED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
:		FLOOR PLANS	623 181663
			PMIS/PKG NO.
. REVIEW:			226858
		CAPE LOOKOUT NATIONAL SEASHORE	SHEET
7/2023		LIGHTHOUSE REPAIRS	21 OF 59

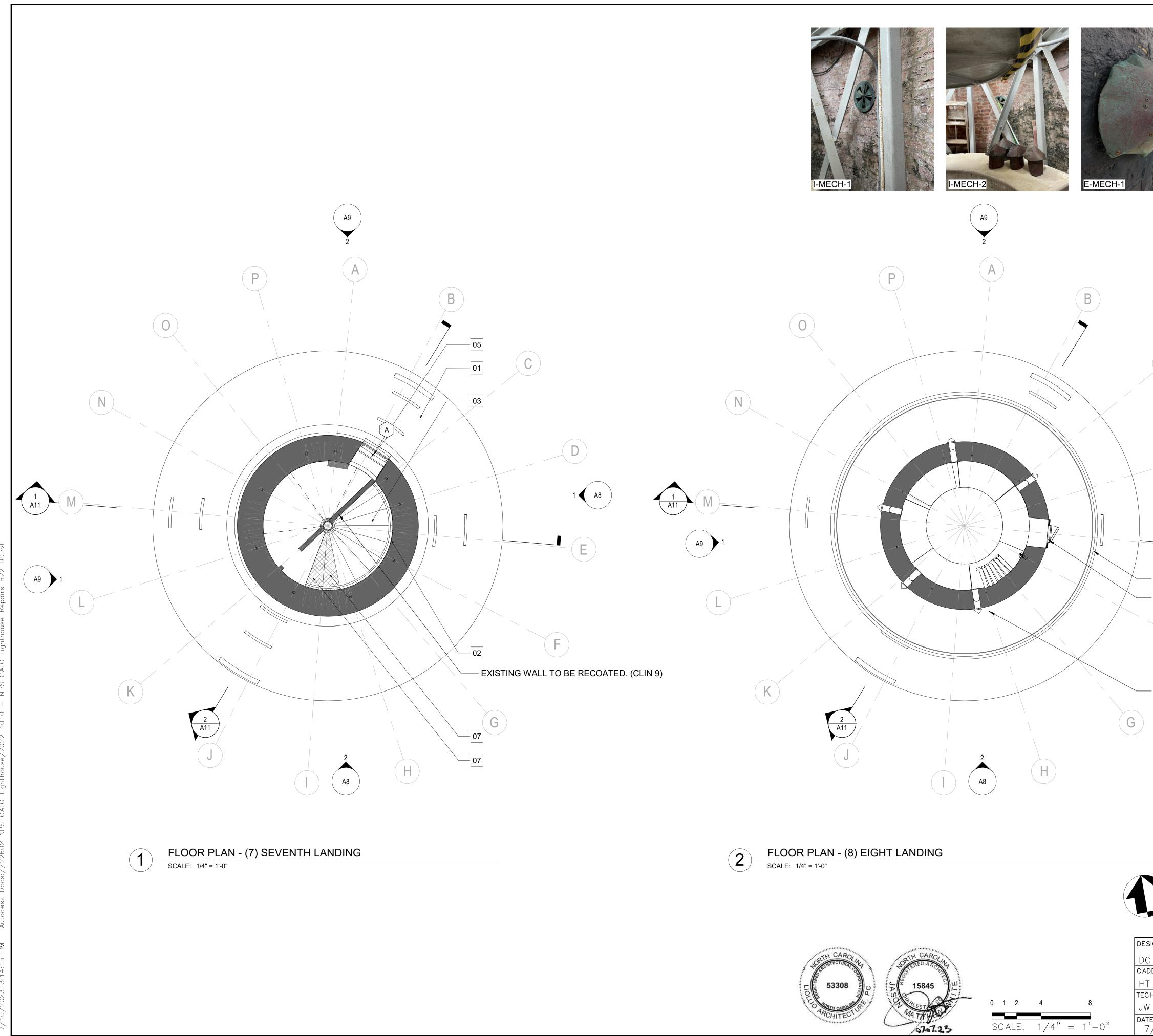




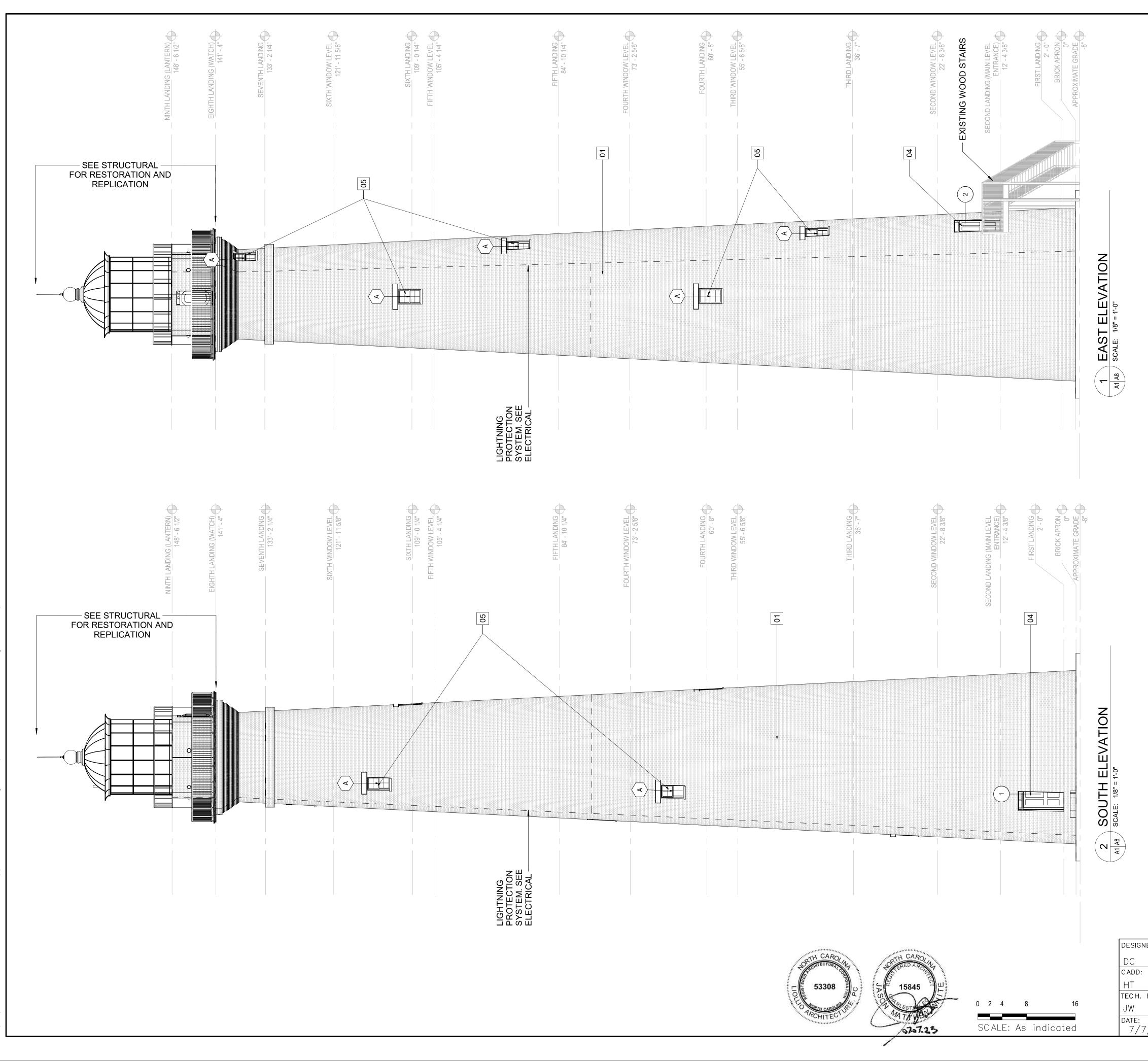
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D:		FLOOR PLANS	623 181663
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I. REVIEW:			226858
		CAPE LOOKOUT NATIONAL SEASHORE	SHEET
: /7/2023		LIGHTHOUSE REPAIRS	OF59



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:	۸ <i>6</i>	FLOOR PLANS	623 181663
	AO		PMIS/PKG NO.
. REVIEW:			226858
		CAPE LOOKOUT NATIONAL SEASHORE	SHEET
7/2023		LIGHTHOUSE REPAIRS	OF59



AN AN	SH	EET NOT	TES				
	01	CLEAN, RE COVER ALI BOND, CRA SIGNS OF I REPOINTIN EXTERIOR ASSUME 60 REPAINT A SILICATE M	EPOI LL AR ACK FAIL NG C R INC 50 SF ALL E MINE	ERIOR MULTI-WYT NT AND REPAIR M REAS VISIBLY DAM ING, INCOMPATIBL URE ARE EVIDEN OF EXTERIOR MASO OMPATIBLE MORT EXTERIOR BRICK EXTERIOR MASON RAL PAINT SYSTE CK AND WHITE DA	ASONRY, SC AGED WHER E PATCHING T. ASSUME 3 ONRY. ASSU AR REPLACI MASONRY F RY USING SF M. PATTERN	OPE TO E LOSS O G, OR OTH 3,000 SF ME 30 SF EMENT. REPLACEN PECIFIED TO MATC	ER 1ENT.
	02	EXISTING I CLEAN, RE AREAS VIS CRACKING OF FAILUR BRICK REF MORTAR, F CORRECT MASONRY	INTE EPOI SIBLY G, INC RE AF POIN REM MAT	RIOR MULTI-WYTH NT AND REPAIR. S OMPATIBLE PATO RE EVIDENT. ASSI ITING. ASSUME 1, OVE AND PREP FO FERIAL. ASSUME 1 PLACEMENT. ASSU	HE BRICK MA COPE TO CO RE LOSS OF I CHING, OR O UME 2,850 SF 000 SF OF IN DR REPOINTI 100 SF OF IN JME SEE I-MA	SONRY. OVER ALL BOND, THER SIG OF INTE OF INTE COMPATIE NG WITH TERIOR BE	RIOR BLE RICK
C	03	RECOAT A TREADS, L CAST IRON WHERE DE DOWN TO WITH A ZIN THIRD AND	ALL E LANC N OR ETEF BRIC NC-R D FO	T IRON SPIRAL ST. LEMENTS, INCLUE DINGS AND HANDR STEEL THAT IS C RIORATION AND RI GHT METAL AND, V CICH THREE PART URTH COATS WIT POLYSILOXANE.	DING BUT NC AILS. FOR A URRENTLY F JST IS EVIDE VITHIN 2 HOU EPOXY PRIM H ACRYLIC P	OT LIMITED LL EXISTIN PAINTED INT, CLEA JRS, COA ER. OVER OLYURET	NG F COAT HANE
D	04 05 06 07	INSTALL W SIGNIFICAI NEW TREA	VIND ANT A AD T D TR	R PER DOOR DETA OW PER WINDOW REA OF REPOINT O BE COATED TO I EADS (CLIN 8)	DETAIL. (CLI ING (CLIN 9)	N 3)	
1	·					- EXISTING C TO REMAIN	
- RAILING, SEE STRUC	TURAL					- EXISTING N FLOOR SYS	
- SHIP DOOR, SEE STR	UCTU	RAL				- EXISTING V FLOOR SYS	
– MECHANICAL VENTS, MECHANICAL (E-MEC MECH-1, I-MECH-2)						- EXISTING N FLOOR SYS	
		xxx	DC	OOR TAG			
				NDOW TAG EET NOTE			
		GENERAL			R PLAN		
)	E	3 GC TO CC WITH ARC C REFER TC	OORI CHIT O SH	VERIFY ALL BUILD DINATE ALL MECH ECTURAL AND STI IEET G2 FOR ADDI LVAGED FROM DE	ANICAL & EL RUCTURAL. TIONAL NOT	ECTRICAL	BOLS.
SIGNED: SUB SHEE				TITLE OF SHEE			DRAWING NO.
C DD: T CH. REVIEW:			ł	FLOOR PL			623 181663 РМІЗ/РКС NO. 226858
V TE: 7/7/2023		САРЕ		DOKOUT NATION LIGHTHOUSE RE		DRE	SHEET



7/10/2023 3:14:18 PM Autodesk Docs://22602 NPS CALO Lighthouse/2022 1010 - NPS CALO Lighthouse Repairs R22 DD.r

SHEET NOTES

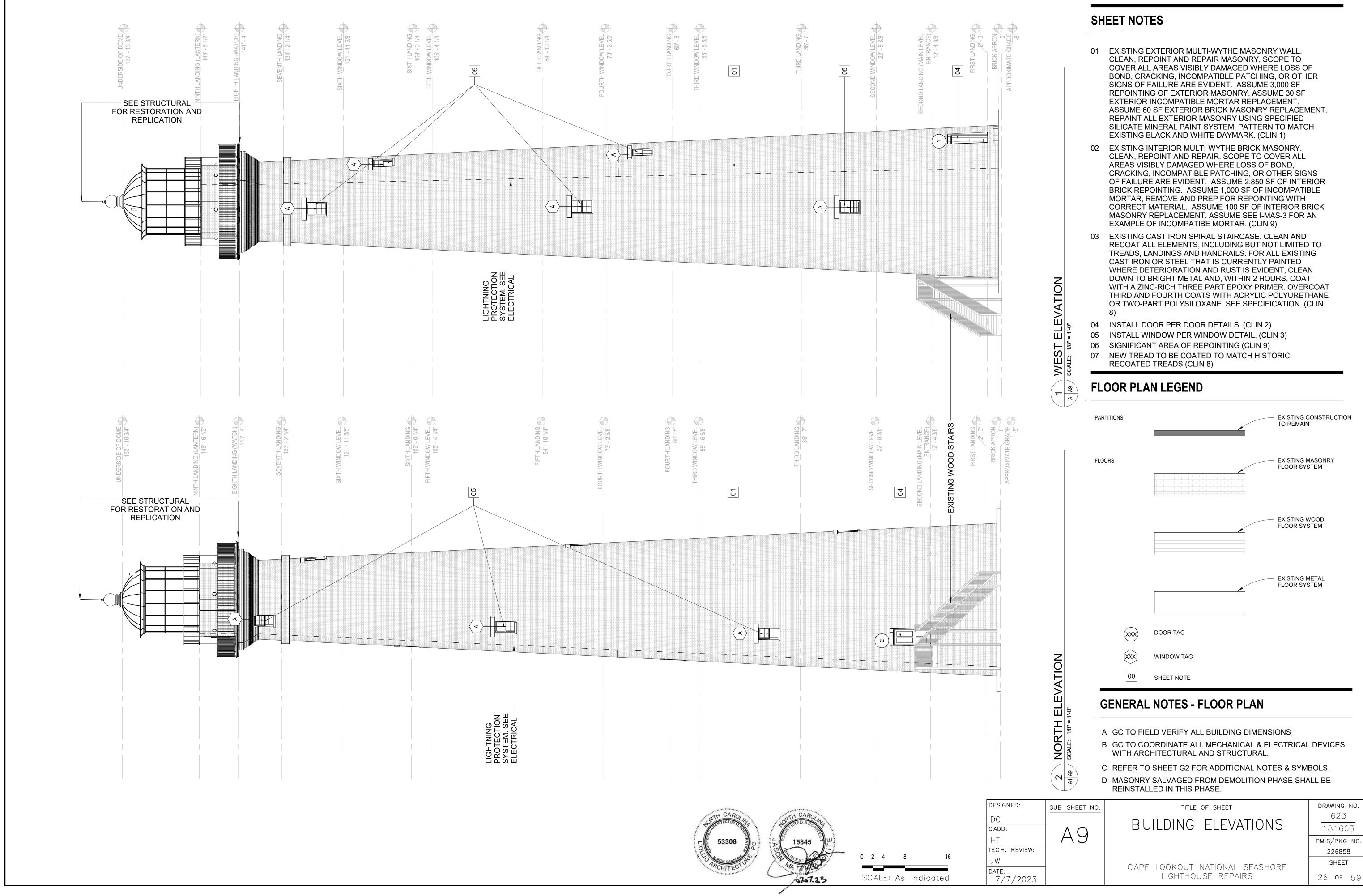
- 01 EXISTING EXTERIOR MULTI-WYTHE MASONRY WALL. CLEAN, REPOINT AND REPAIR MASONRY, SCOPE TO COVER ALL AREAS VISIBLY DAMAGED WHERE LOSS OF BOND, CRACKING, INCOMPATIBLE PATCHING, OR OTHER SIGNS OF FAILURE ARE EVIDENT. ASSUME 3,000 SF REPOINTING OF EXTERIOR MASONRY. ASSUME 30 SF EXTERIOR INCOMPATIBLE MORTAR REPLACEMENT. ASSUME 60 SF EXTERIOR BRICK MASONRY REPLACEMENT. REPAINT ALL EXTERIOR BRICK MASONRY REPLACEMENT. REPAINT ALL EXTERIOR MASONRY USING SPECIFIED SILICATE MINERAL PAINT SYSTEM. PATTERN TO MATCH EXISTING BLACK AND WHITE DAYMARK. (CLIN 1)
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- 06 SIGNIFICANT AREA OF REPOINTING (CLIN 9)
- 07 NEW TREAD TO BE COATED TO MATCH HISTORIC RECOATED TREADS (CLIN 8)

FLOOR PLAN LEGEND

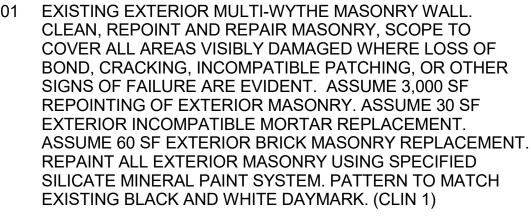
PARTITIONS		— EXISTING CONSTRUCTION TO REMAIN
FLOORS		- EXISTING MASONRY FLOOR SYSTEM
		- EXISTING WOOD FLOOR SYSTEM
		— EXISTING METAL FLOOR SYSTEM
xxx	DOOR TAG	
XXX	WINDOW TAG	
00	SHEET NOTE	

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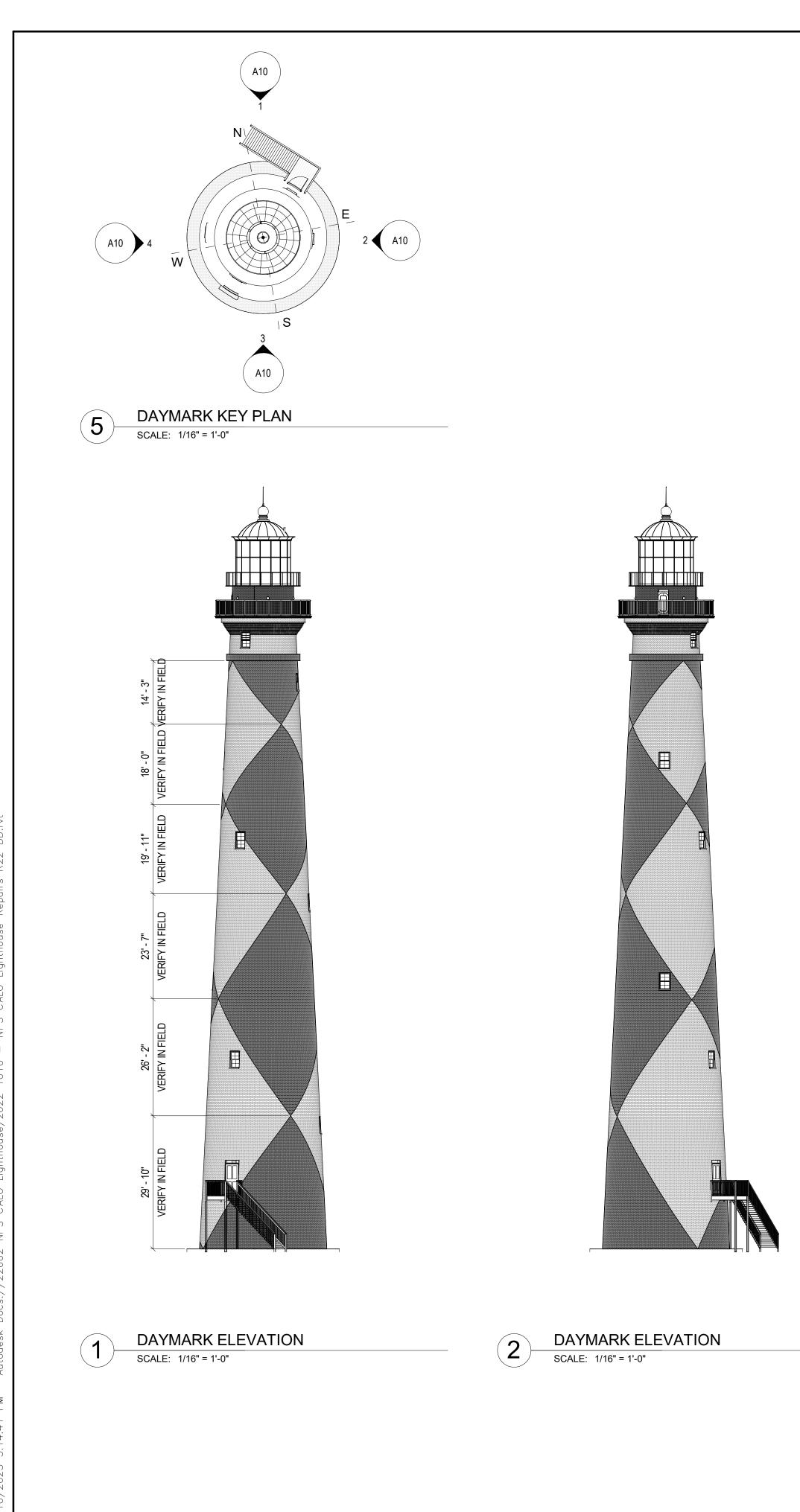
ED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
	<u> </u>	BUILDING ELEVATIONS	623 181663
	AO		PMIS/PKG NO.
REVIEW:			226858
		CAPE LOOKOUT NATIONAL SEASHORE	SHEET
/2023		LIGHTHOUSE REPAIRS	OF59

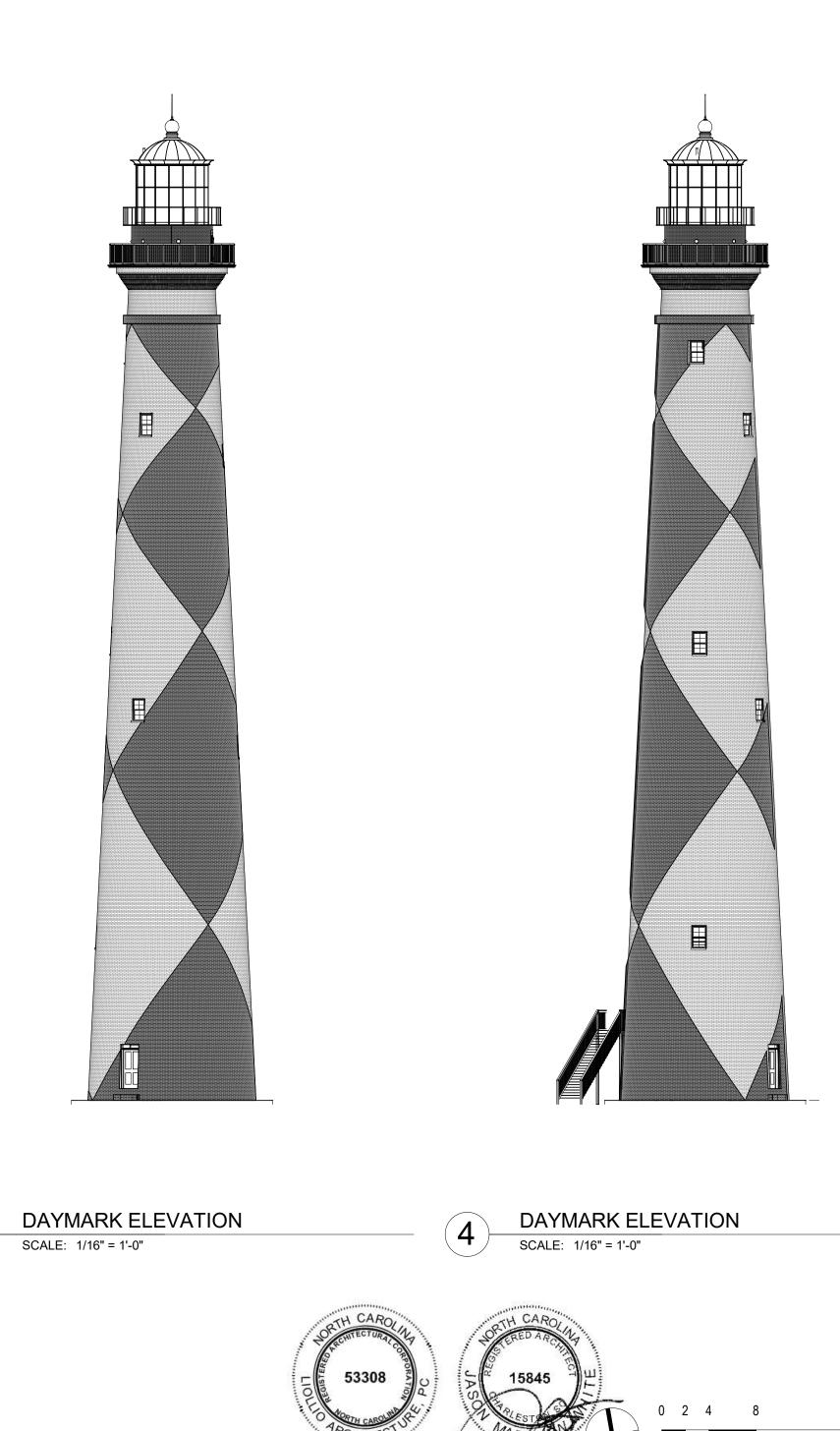












3



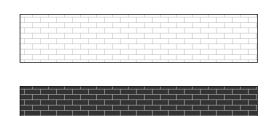
SCALE: As indicated

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GENERAL NOTES - DAYMARK

- A DAYMARK DIAGRAMS ARE FOR REFERENCE ONLY. GC TO FIELD VERIFY EXISTING DAYMARK, PAINT TYPE AND LOCATION PRIOR TO COATING REMOVAL.
- B WINDOWS TO BE PAINTED WHITE. SEE SPECIFICATIONS FOR COATING TYPE.
- C 1ST LEVEL DOOR TO BE PAINTED BLACK. 2ND LEVEL DOOR TO BE PAINTED WHITE. SEE SPECIFICATIONS FOR COATING TYPE.

DAYMARK LEGEND

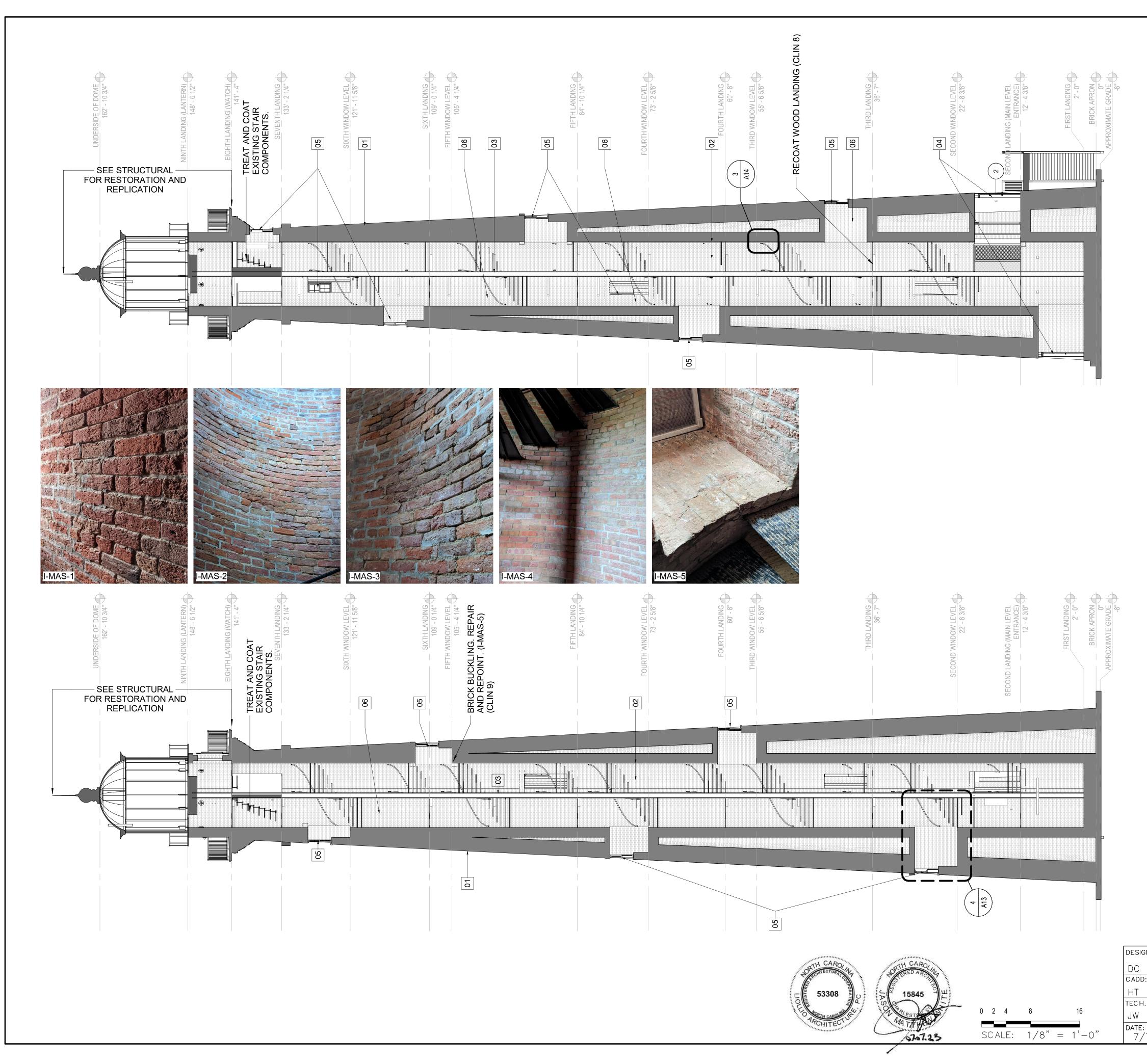


MASONRY TO BE COATED IN WHITE. SEE SPECIFICATIONS FOR COATING

MASONRY TO BE COATED IN BLACK. SEE SPECIFICATIONS FOR COATING

ALL WORK ON THIS PAGE IS ASSOCIATED WITH CLIN 1 UNLESS OTHERWISE SPECIFIED.

GNED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
):	$\wedge 1 \cap$	BUILDING ELEVATIONS	623 181663
I. REVIEW:	AIU	DAYMARKS	PMIS/PKG NO. 226858
		CAPE LOOKOUT NATIONAL SEASHORE	SHEET
: /7/2023		LIGHTHOUSE REPAIRS	OF



- 01 EXISTING EXTERIOR MULTI-WYTHE MASONRY WALL. CLEAN, REPOINT AND REPAIR MASONRY, SCOPE TO COVER ALL AREAS VISIBLY DAMAGED WHERE LOSS OF BOND, CRACKING, INCOMPATIBLE PATCHING, OR OTHER SIGNS OF FAILURE ARE EVIDENT. ASSUME 3,000 SF REPOINTING OF EXTERIOR MASONRY. ASSUME 30 SF EXTERIOR INCOMPATIBLE MORTAR REPLACEMENT. ASSUME 60 SF EXTERIOR BRICK MASONRY REPLACEMENT. REPAINT ALL EXTERIOR BRICK MASONRY REPLACEMENT. REPAINT ALL EXTERIOR MASONRY USING SPECIFIED SILICATE MINERAL PAINT SYSTEM. PATTERN TO MATCH EXISTING BLACK AND WHITE DAYMARK. (CLIN 1)
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- 06 SIGNIFICANT AREA OF REPOINTING (CLIN 9)
- 07 NEW TREAD TO BE COATED TO MATCH HISTORIC RECOATED TREADS (CLIN 8)

GENERAL NOTES - SECTION

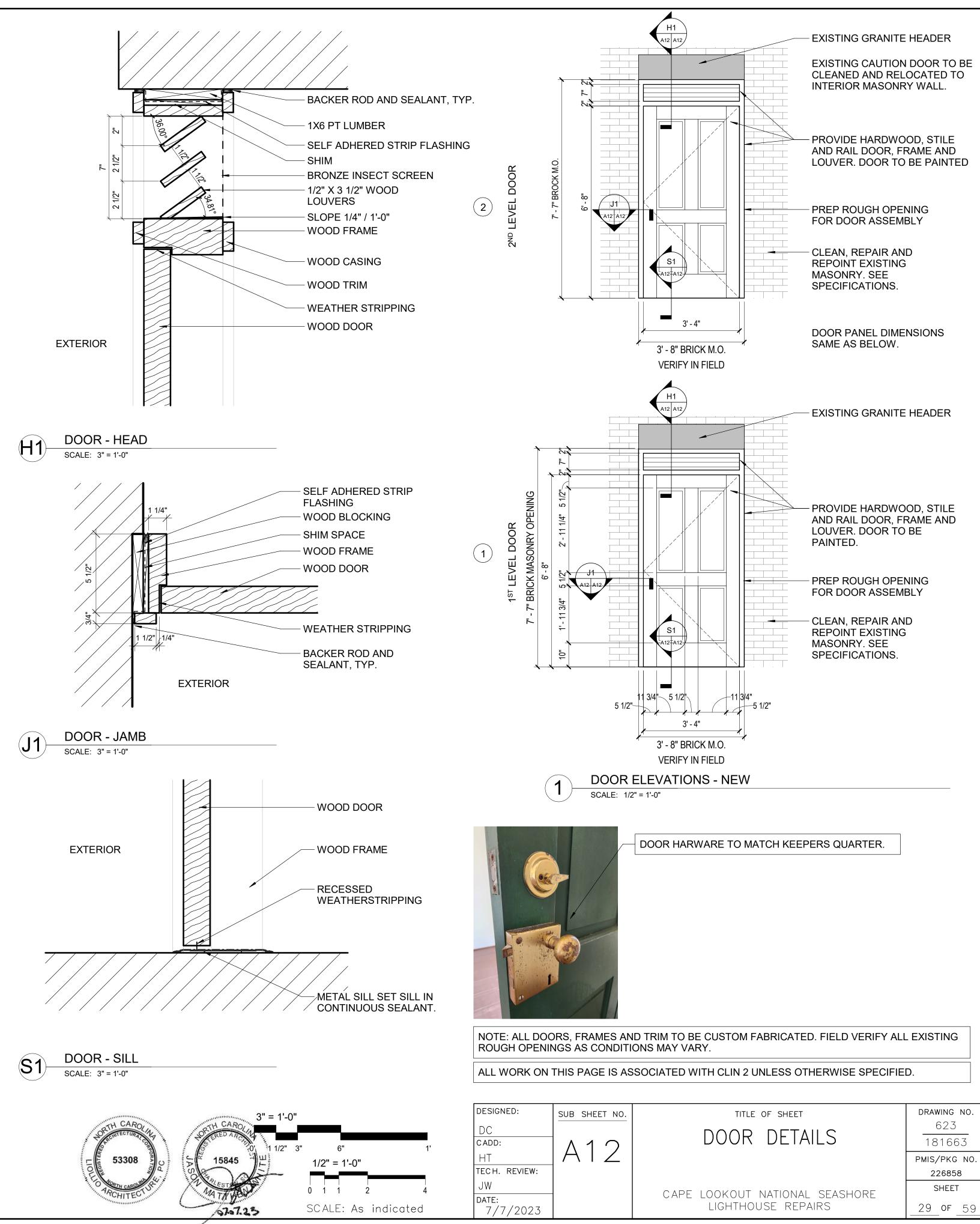
- A REFER TO SHEET G2 FOR ADDITIONAL NOTES & SYMBOLS.
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NED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
:	Λ 1 1	BUILDING SECTIONS	623 181663
. REVIEW:	AII		PMIS/PKG NO. 226858
		CAPE LOOKOUT NATIONAL SEASHORE	SHEET
7/2023		LIGHTHOUSE REPAIRS	OF59

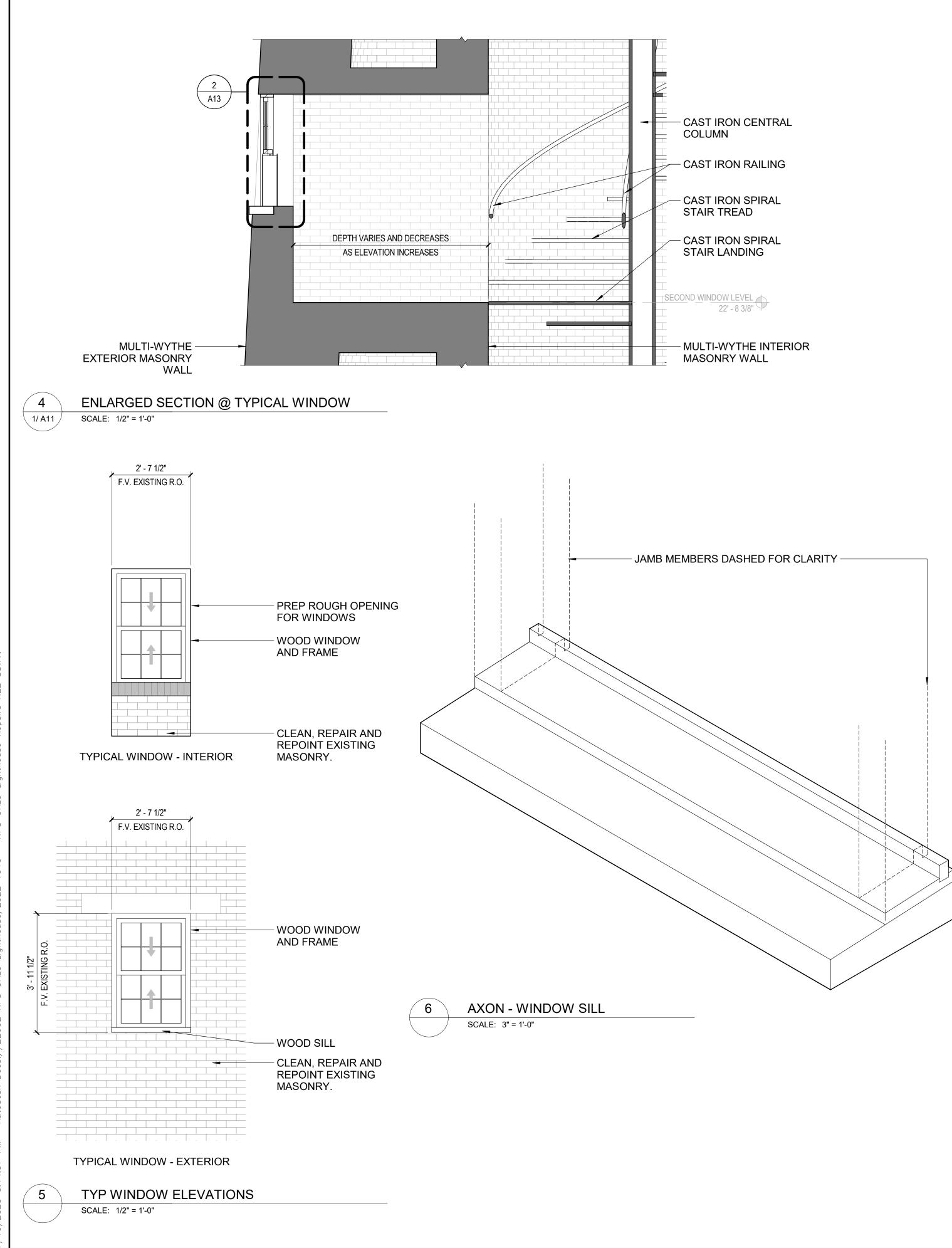
2 BUILDING SECTION 2 A1 A11 SCALE: 1/8" = 1'-0"

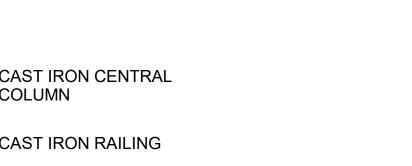
SECTION

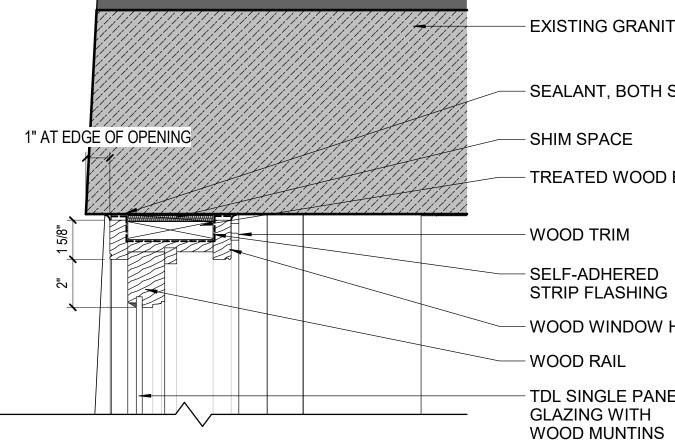
1 BUILDING A1 A11 SCALE: 1/8" = 1'-0"

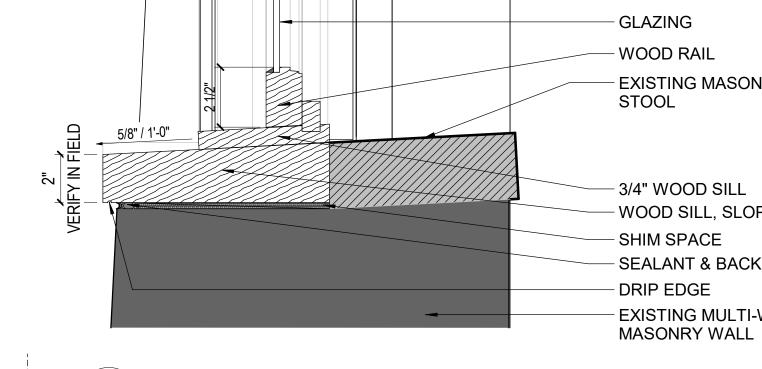


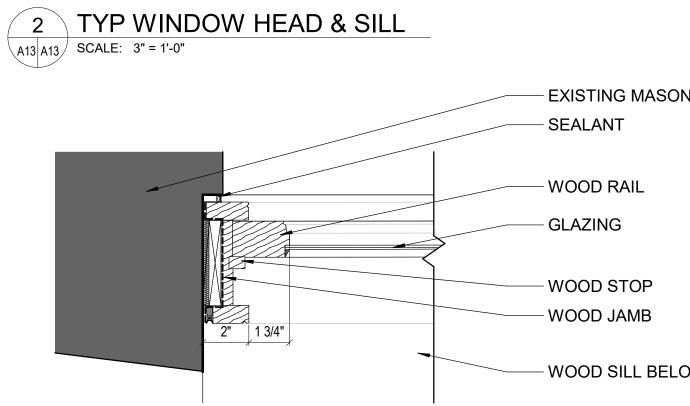
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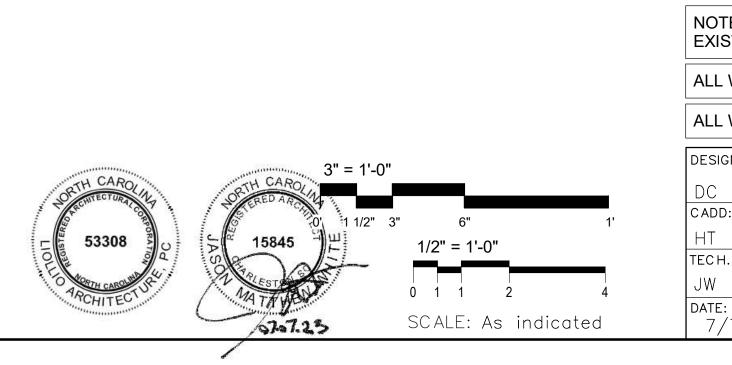








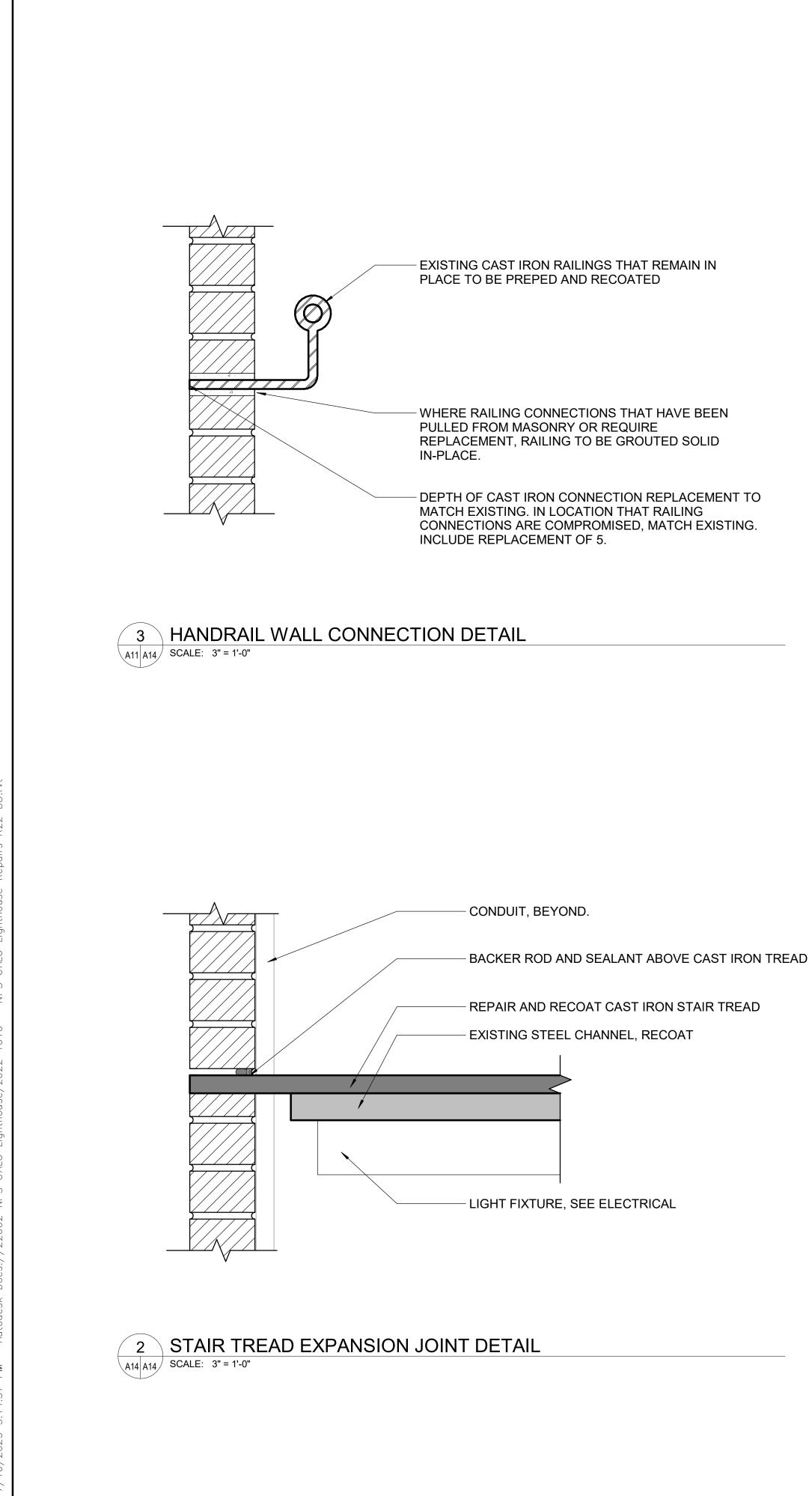


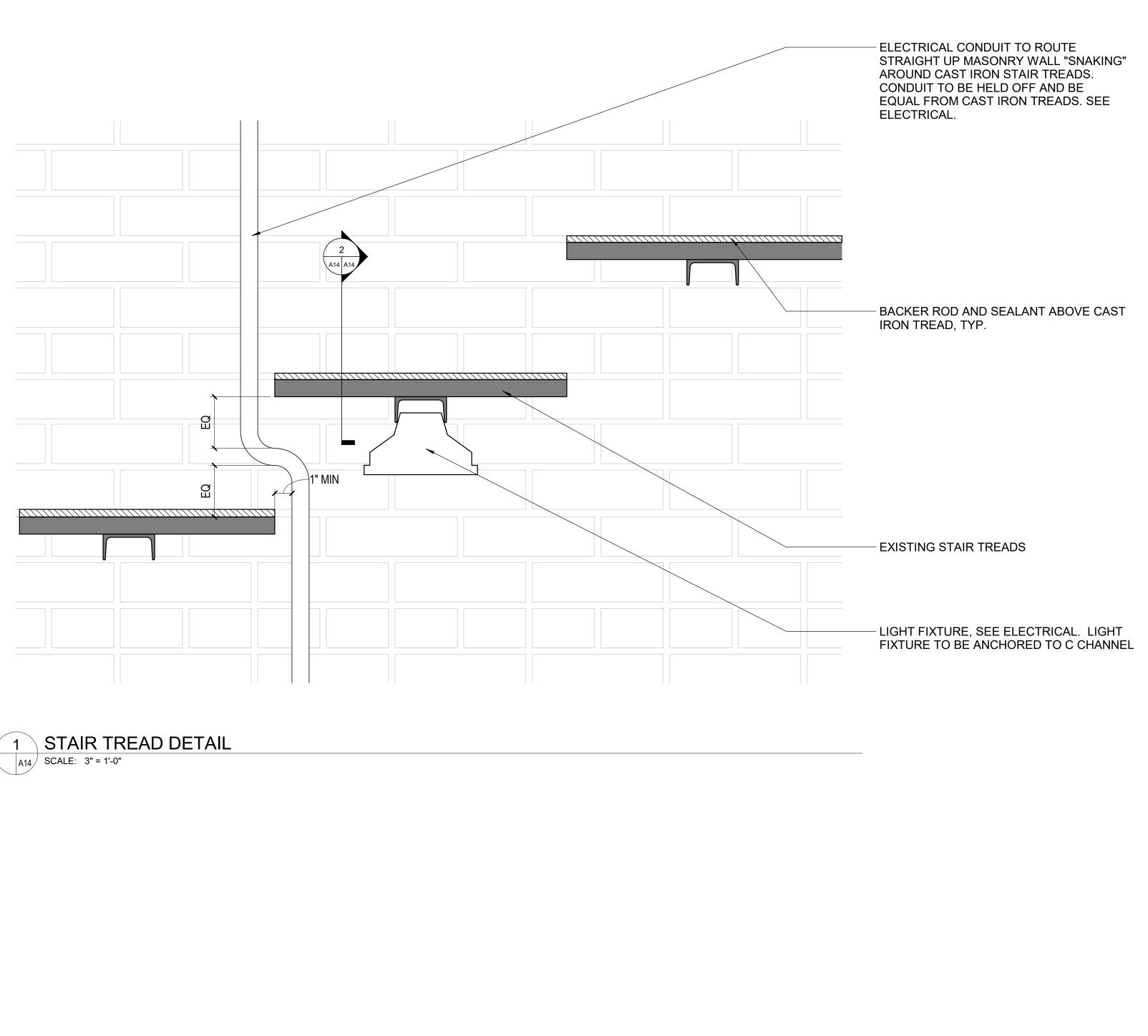


3 TYP WINDOW JAMB

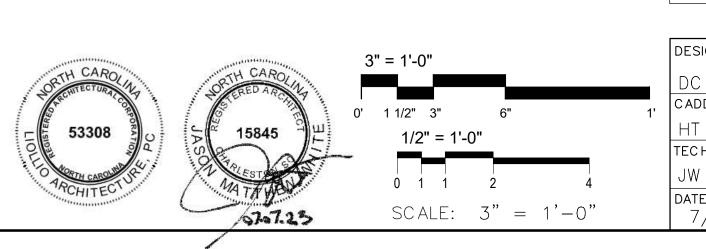
A13 SCALE: 3" = 1'-0"

		LEVEL & 3 BE INSTA BEEN RE	DETAIL IS REQUIRE SEVENTH LEVEL V LLED ONCE CAP C MOVED. LOUVERS EW EXHAUST FAN	VINDOWS. LOU OF LIGHTHOUS TO BE REMOV	VERS TO E HAS ⁄ED	- EXISTING GRANITE LINTEL - SEALANT, BOTH
- EXISTING G	RANITE LINTEL					SIDES - INSULATED SHIM SPACE - TREATED WOOD
– SEALANT, E	BOTH SIDES					BLOCKING - WOOD TRIM
– SHIM SPAC	E					- SELF-ADHERED STRIP FLASHING
- TREATED W	VOOD BLOCKING	;				- WINDOW HEAD
- WOOD TRIN - SELF-ADHE STRIP FLAS	RED					- UPPER & LOWER SASH
- Wood Rail - Tdl Single Glazing W Wood Mun	E PANE /ITH					
– WOOD CAS – GLAZING	ING BEYOND					- WINDOW SASHES
- WOOD RAIL						- SEALANT
STOOL						- ALUMINUM LOUVER. SEE MEP.
- DRIP EDGE	., SLOPED E BACKER ROD IULTI-WYTHE					
– EXISTING M – SEALANT	IASONRY					
	-					– ALUMINUM LOUVER – EXISTING BRICK STOOL
- GLAZING						
– WOOD STO – WOOD JAM						- WOOD SILL
- WOOD SILL	. BELOW					- WOOD SILL, SLOPED - EXISTING MASONRY
		1 TEMP(A13 SCALE: 3" =	DRARY LOU	/ER IN WI	NDOW	
			S AND TRIM TO BE		RICATED. FIELD	VERIFY ALL
	ALL WINDOWS	TO BE INSTALL	ED PLUMB & PARA		OW OPENING.	
		-	SSOCIATED WITH		-	
1'	designed: DC cadd: HT tech. review:	A13	WIN	title of shi		DRAWING NO. 623 181663 PMIS/PKG NO. 226858
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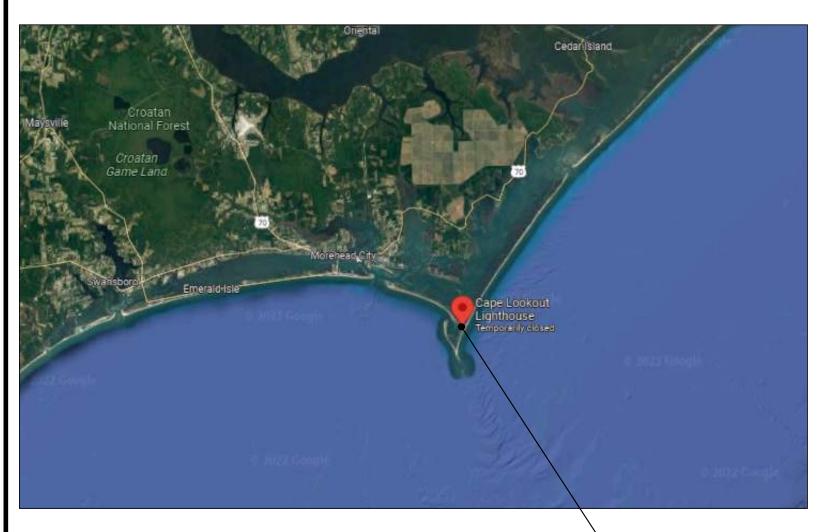
	1	STAIR TREAD DETAIL
\Box	A14	SCALE: 3" = 1'-0"



ALL WORK ON THIS PAGE IS ASSOCIATED WITH CLIN 8 UNLESS OTHERWISE SPECIFIED.

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D:	Λ 1 <i>1</i>	SPECIAL CONSTRUCTION	623 181663
	A 4	DETAILS	PMIS/PKG NO.
H. REVIEW:			226858
		CAPE LOOKOUT NATIONAL SEASHORE	SHEET
:: /7/2023		LIGHTHOUSE REPAIRS	OF

CAPE LOOKOUT LIGHTHOUSE

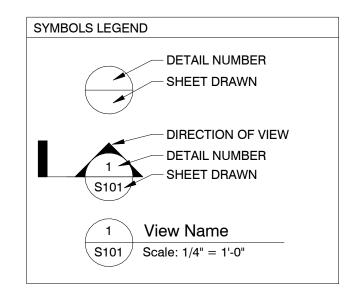


131 Charles Street, Harkers Island, NC 28531





HATCH LEGEND STUCCO OR MORTAR Q. A - . A. Q. CONCRETE MASONRY



ABBREVIATIONS	LEGEND
& @ ALT APPROX ARCH	AND AT ALTERNATE APPROXIMATE ARCHITECTURAL
CL CMU CO	CENTER LINE CONCRETE MASONRY UNIT CONTRACTING OFFICER
DIAM	DIAMETER
EOR	ENGINEER OF RECORD
FV FTG	FIELD VERIFY FOOTING
HDG	HOT DIP GALVANIZED
MPII	MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS
NTS	NOT TO SCALE
OC	ON CENTER
PT PL	PRESSURE TREATED PLATE
SPECS SQ SQ FT SS	SPECIFICATIONS SQUARE SQUARE FEET STAINLESS STEEL
TEMP TYP	TEMPORARY TYPICAL

GENERAL NOTES:

1.0 SCOPE OF WORK

- WATCH LEVELS.

2.0 GENERAL

2.1 WORK ON THIS HISTORIC STRUCTURE REQUIRES EXTRAORDINARY CARE. DURING ALL PHASES OF STRUCTURAL WORK, PRESERVE AND PROTECT ALL OF THE ELEMENTS OF THE STRUCTURE NOT SPECIFICALLY CALLED OUT FOR REMOVAL. THE STRUCTURE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO, EXISTING MILLWORK, STRUCTURAL WOOD, MASONRY, GLASS, IRONWORK, AND DECORATIVE FINISHES.

2.2 STRUCTURAL WORK MAY REQUIRE DISASSEMBLY OF ADDITIONAL STRUCTURE ELEMENTS INCLUDING BUT NOT LIMITED TO MECHANICAL SYSTEMS, ELECTRICAL SYSTEMS, MASONRY, MILLWORK, ETC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE WHAT MUST BE REMOVED OR TEMPORARILY RELOCATED AND WHAT MUST BE MAINTAINED IN SERVICE. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE THESE SYSTEMS OR STRUCTURE ELEMENTS AS PART OF THIS PROJECT.

2.3 NOTE THAT ALL SLOPES AND ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SLOPES, AND ELEVATIONS PRIOR TO ANY FABRICATION. NOTE THAT THE UNDERLAY DRAWING OF THE EXISTING STRUCTURE IS BASED ON SCANS CAPTURED IN 2022 AND THAT THE ACCURACY OF THESE SCANS/DRAWINGS IS NOT GUARANTEED. THE CURRENT SCOPE OF WORK IS NOTED IN BOLD BLACK.

2.4 THE CONTRACTOR IS REQUIRED TO HAVE A FULL SET OF CONSTRUCTION DOCUMENTS ON SITE AND READILY AVAILABLE AT ALL TIMES (BOTH DRAWINGS AND SPECIFICATIONS).

2.5 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO THOROUGHLY CLEAN ALL ELEMENTS OF THE STRUCTURE UPON COMPLETION OF THE WORK OF THIS PROJECT. CLEAN AND RETURN TO ORIGINAL CONDITION ALL AREAS USED FOR LAY DOWN, STORAGE, AND CONSTRUCTION **OPERATIONS DURING THE STRUCTURAL WORK. SEE ARCHITECTURAL** DRAWINGS AND SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.

2.6 SEE ARCHITECTURAL SPECIFICATIONS FOR HAZARDOUS MATERIAL TESTING AND ABATEMENT REQUIREMENTS.

2.7 ALL PAINT IS TO BE TREATED WITH THE ASSUMPTION THAT IT 5.2 CONTRACTOR IS REQUIRED TO HIRE A BRACING AND SHORING CONTAINS LEAD UNLESS TESTING SHOWS OTHERWISE. THE ENGINEER TO DESIGN ALL SCAFFOLDING, BRACING, AND SHORING FOR CONTRACTOR SHALL PROPERLY DISPOSE OF ALL HAZARDOUS MATERIALS THIS PROJECT. DESIGN CALCULATIONS AND WORKING DRAWINGS OF ALL WHICH BECOME EXPOSED DURING ANY ASPECT OF CONSTRUCTION, PROPOSED SHORING OF THE STRUCTURE SHALL BE PREPARED. COMPLYING WITH ALL APPLICABLE REGULATIONS AND LAWS. STAMPED, AND SIGNED BY A PE REGISTERED IN NORTH CAROLINA. THE ENGINEER OF RECORD SHALL OBSERVE ALL BRACING AND SHORING AND 2.8 REQUIRED SUBMITTALS APPROVE PRIOR TO ANY SELECTIVE DEMOLITION OR CONSTRUCTION. SEE SPECIFICATION SECTION 021500 "BRACING AND SHORING" FOR ADDITIONAL REQUIREMENTS.

THE FOLLOWING SUBMITTALS ARE REQUIRED BY THE CONTRACTING OFFICER FOR INPUT FROM ENGINEER-OF-RECORD: • SHORING AND SHORING SEQUENCE. (SEALED BY A PE REGISTERED IN

- NC).
- SHOP DRAWINGS.
- ALL MATERIAL SUBMITTALS.

3.0 DELEGATED DESIGN 3.1 THE FOLLOWING DELEGATED DESIGN ITEMS SHALL BE PERFORMED 6.2 STAINLESS STEEL LADDER MASONRY JOINT REINFORCEMENT AS BY OR UNDER THE DIRECT SUPERVISION OF AN ENGINEER REGISTERED IN SHOWN ON DRAWINGS. SEE SPECIFICATIONS. THE PROJECT STATE. DRAWINGS MUST BE SUBMITTED WITH SUPPORTING CALCULATIONS AND CARRY THE SEAL AND SIGNATURE OF THE 7.0 CONCRETE REGISTERED ENGINEER. 7.1 ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH - SCAFFOLDING BRACING AND SHORING (SEE NOTE 4.1) THE REQUIREMENTS OF ACI 301 AND ACI 117. WATER REDUCING

- TEMPORARY LIGHTNING PROTECT SYSTEM AND RECONNECTION OF PERMANENT LIGHTNING PROTECTION SYSTEM

3.2 ALL POST-INSTALLED ATTACHMENTS, ANCHORS, AND ADHESIVES MUST BE DESIGNED, INSTALLED AND INSPECTED IN ACCORDANCE WITH 7.2 SEE SPECIFICATION SECTION 033000 CAST-IN-PLACE CONCRETE THE APPROPRIATE ICC-ES REPORT IN COMPLIANCE WITH IBC 2015. REFERENCE TO SPECIFIC ICC-ES REPORT MUST BE INDICATED ON DRAWINGS AND SUPPORTING CALCULATIONS.

3.3 THE DELEGATED DESIGN ITEMS, INCLUDING DRAWINGS AND 8.1 ALL NEW TEMPORARY STRUCTURAL STEEL, UNLESS OTHERWISE CALCULATIONS, SHALL BE TREATED AS DESIGN DOCUMENTS AND NOTED, SHALL COMPLY WITH THE REQUIREMENTS OF ASTM INCLUDED WITH AS-BUILT PACKAGES, ISSUED FOR CONSTRUCTION SPECIFICATION A36 OR A572, GRADE 50, AND SHALL BE HOT-DIP PACKAGES, AND SUBMITTED TO NPS FOR RECORD-KEEPING WITH THE GALVANIZED AFTER FABRICATION, COMPLYING WITH ASTM A123/A123M DESIGNERS SEAL AND SIGNATURE, THE SHOP DRAWINGS REVIEW STAMP AND TOUCHED UP AFTER INSTALLATION. ALL WORK MUST COMPLY WITH OF THE STRUCTURAL ENGINEER OF RECORD, THE ARCHITECT OF THE REQUIREMENTS OF THE AISC MANUAL OF STEEL CONSTRUCTION, RECORD, OTHER RELEVANT DESIGN PROFESSIONALS, THE CONTRACTOR, 14TH EDITION, AND WITH AWS D1.1. AND BEARING ANY REVIEW COMMENTS.

1.1 THE WORK OF THIS PROJECT INCLUDES, BUT IS NOT LIMITED TO: DOCUMENTING GEOMETRY, CONNECTIONS, AND DETAILS OF IRON ELEMENTS, GLASS ELEMENTS, AND MASONRY AT THE LANTERN AND

 DISASSEMBLING THE LANTERN AND WATCH LEVELS, BOTH INTERIOR AND EXTERIOR, DOWN TO THE WATCH LEVEL LANDING. REPAIRING AND/OR REPLICATING AND REPLACING IRON AND METAL COMPONENTS FROM THE LANTERN AND WATCH LEVELS IN-KIND. RECONSTRUCTING THE MASONRY AT THE WATCH LEVEL.

COMPONENTS AT THE WATCH AND LANTERN LEVELS.

SEE SPECIFICATIONS FOR ADDITIONAL SUBMITTAL REQUIREMENTS.

4.0 CODE ANALYSIS / STRUCTURAL DESIGN LOADS 4.1 CODE ANALYSIS

2018 NORTH CAROLINA STATE BUILDING CODE: EXISTING BUILDING CODE (BASED ON THE 2015 INTERNATIONAL EXISTING BUILDING CODE) INTERNATIONAL BUILDING CODE 2015/ ASCE 7-10

4.2 THIS IS A HISTORIC STRUCTURE. IN ITS EXISTING STATE, VERY LITTLE MEETS TODAY'S BUILDING CODES FOR NEW CONSTRUCTION. BUT AS AN EXISTING STRUCTURE, THE WORK ON THIS STRUCTURE IS DONE UNDER THE INTERNATIONAL EXISTING BUILDING CODE, WHERE STRUCTURAL ELEMENTS THAT ARE NOT TOUCHED, ARE ALLOWED TO EXIST. BUT BUILDING ELEMENTS THAT ARE STRENGTHENED ARE STRENGTHENED TO RECONSTRUCTING AND REINSTALLING THE IRON, METAL, AND GLASS MEET THE REQUIREMENTS OF NEW CONSTRUCTION.

> 4.3 LIVE LOADS (NO REDUCTIONS TAKEN): STAIRS100 PSF

ROOF	20 PSF

4.4 LATERAL LOADS:

4.4 LATENAL LOADS.	
WINDULTIMATE DESIGN WIND SPEED: 145 MPH	
NOMINAL DESIGN WIND SPEED: 112 MPH	
RISK CATEGORY: II	
EXPOSURE: D (COASTAL)	
APPLICABLE PRESSURE COEFFICIENT:	
EXTERNAL:+0.80, -0.5, -0.70	
INTERNAL: +/- 0.18 (ENCLOSED)	
GUST: 0.85	
SEISMICRISK CATEGORY: II	
SEISMIC IMPORTANCE FACTOR: 1.0	
Ss: 0.108	
S1: 0.057	
SITE CLASS: D	
SDs: 0.115	
SD1: 0.091	
SEISMIC DESIGN CATEGORY: B	
BASIC SEISMIC FORCE RESISTING SYSTEM:	
BEARING WALL SYSTEMS ORDINARY PLAIN	
MASONRY SHEAR WALLS	
DESIGN BASE SHEAR: N/A	
Cs: 0.0767	
R: 1.5	
ANALYSIS PROCEDURE USED:	
EQUIVALENT LATERAL FORCE PROCEDURE	

4.5 SNOW LOAD CRITERIA:

GROUND SNOW LOAD... ..10 PSF

5.0 SCAFFOLDING BRACING AND SHORING

5.1 CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, SCAFFOLDING, AND TEMPORARY SUPPORTS, ETC.

6.0 MASONRY

6.1 SEE SPECIFICATION SECTION 040322 "HISTORIC BRICK UNIT MASONRY REPAIR" AND SECTION 040323 "HISTORIC BRICK UNIT MASONRY REPOINTING" FOR ALL HISTORIC MASONRY WORK REQUIRED TO COMPLETE STRUCTURAL REPAIRS AS INDICATED.

ADMIXTURES ARE PERMITTED WITH APPROVAL BUT NOT REQUIRED. APPROPRIATE HOT AND COLD WEATHER CONCRETE PROCEDURES MUST BE FOLLOWED. WHEN APPLICABLE.

FOR ADDITIONAL REQUIREMENTS, FIELD QUALITY CONTROL REQUIREMENTS. AND SPECIAL INSPECTION REQUIREMENTS.

8.0 STEEL

8.2 ALL NEW PERMANENT STEEL SHALL BE STAINLESS STEEL TYPE 316 OR 316L, UNLESS OTHERWISE INDICATED.

SPECIFICATIONS.

8.4 AT ANY LOCATION WHERE HOT DIP GALVANIZED STEEL IS IN CONTACT WITH STAINLESS STEEL, CAST IRON, OR ANY OTHER DISSIMILAR METAL, METALS MUST BE ELECTRICALLY ISOLATED WITH A TEFLON PAD OR SIMILAR.

8.5 BOLTS, NUTS, AND WASHERS FOR PERMANENT CONNECTIONS SHALL BE 316 STAINLESS STEEL.

8.6 SEE SPECIFICATION SECTIONS 055000 "METAL FABRICATIONS" 050374 "HISTORIC DECORATIVE METAL REPLICATION", AND 050383 "HISTORIC CAST IRON REPAIR" FOR ADDITIONAL REQUIREMENTS, INCLUDING STANDARDS, FIELD QUALITY CONTROL REQUIREMENTS AND SURFACE PREPARATION. SEE ALSO SPECIFICATION SECTION 099600 "HIGH PERFORMANCE COATINGS" FOR COATING SYSTEM REQUIRED ON ALL STEEL AND CAST IRON.

8.7 WELDING SHALL COMPLY WITH AWS CODE D1.1 AND SHALL BE PERFORMED BY CERTIFIED WELDERS. NO FIELD WELDING OR CUTTING SHALL BE PERMITTED WITHIN THE LIGHTHOUSE OR WITHIN **50 FEET OF EXISTING STRUCTURES.**

8.8 CONFIRM ALL ROD AND PLATE LOCATIONS WITH CONTRACTING OFFICER FOR INPUT FROM ENGINEER-OF-RECORD BEFORE DOING ANY CONNECTING OR MASONRY DRILLING, REMOVAL, OR DAMAGE.

9.0 WOOD

9.1 ALL TEMPORARY STRUCTURAL WOOD MEMBERS SHALL BE PRESSURE TREATED, SHALL MEET THE REQUIREMENTS OF SPIB NO. 2 SOUTHERN PINE OR BETTER, OR SHALL BE PRESSURE TREATED LVL. UNLESS OTHERWISE IDENTIFIED.

9.2 ALL WOOD FASTENINGS SHALL BE PER IBC TABLE 2304.9.1 "FASTENING SCHEDULE" UNLESS OTHERWISE NOTED.

9.3 SEE SPECIFICATION SECTION 061000 "ROUGH CARPENTRY" FOR ADDITIONAL REQUIREMENTS FOR FASTENERS IN WOOD.

10.0 METAL COATINGS

11.0 FINISHES

11.1 SCOPE OF EXTERIOR AND INTERIOR MASONRY COATINGS: SEE ARCHITECTURAL.

12.0 SPECIAL INSPECTIONS 12.1 SEE SPECIAL INSPECTION REQUIREMENTS IN THE PROJECT MANUAL.

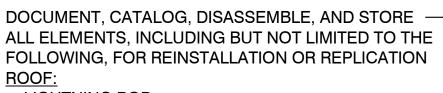
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8.3 ALL NEW CAST IRON SHALL COMPLY WITH THE REQUIREMENTS OF ASTM A48 AND SHALL BE COATED ON ALL SURFACES. SEE

10.1 COATINGS ARE REQUIRED FOR ALL CAST IRON AND ALL STEEL NEW AND EXISTING. ALL ITEMS MUST BE COATED ON ALL SIDES. SEE SPECIFICATION SECTION 099600 "HIGH PERFORMANCE COATINGS" FOR REQUIREMENTS. SEE ALSO FINISH SYSTEM SHEET NOTES.

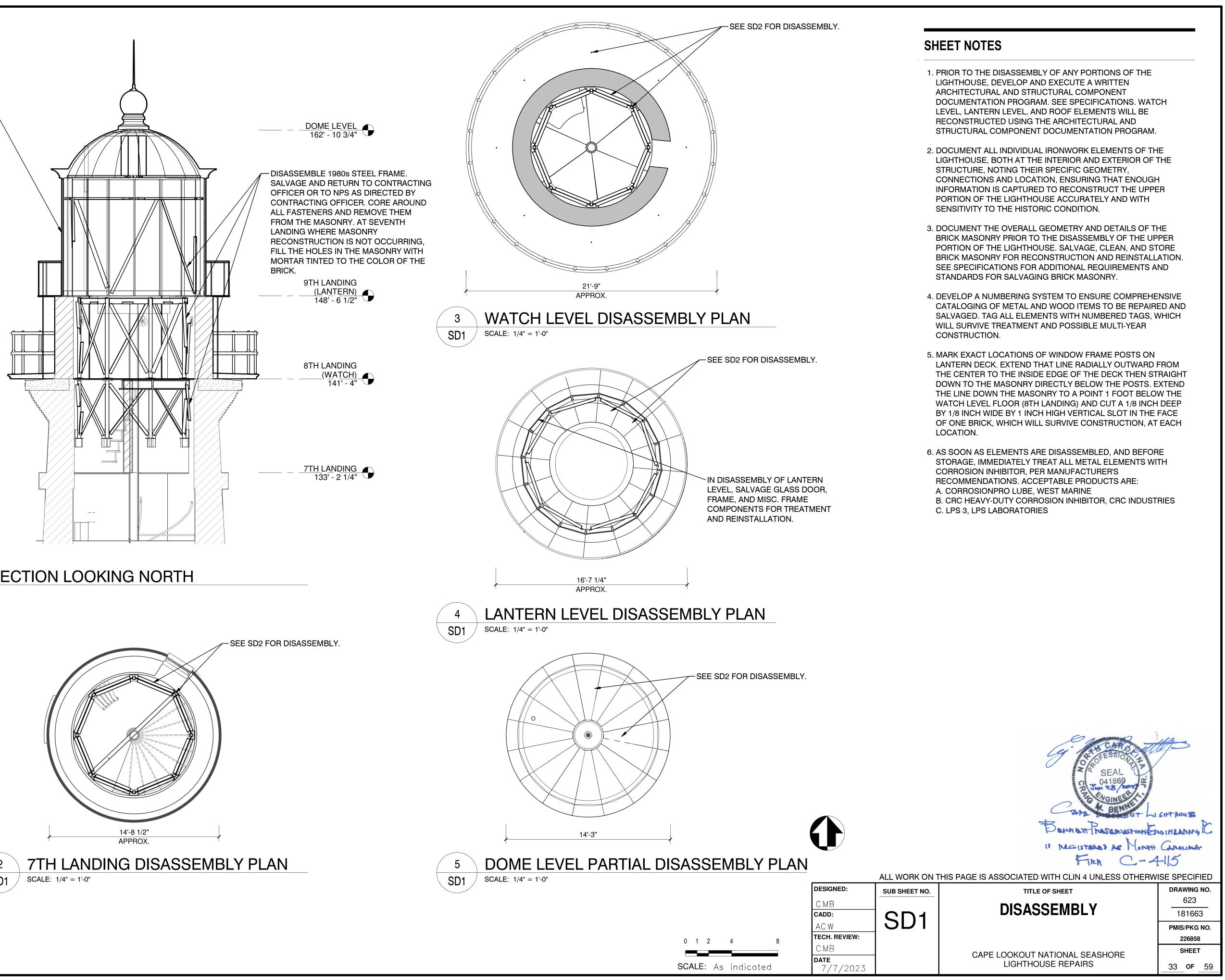
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	CAPE LOOKOUT NATIONAL SEASHORE LIGHTHOUSE REPAIRS	SHEET 320F59

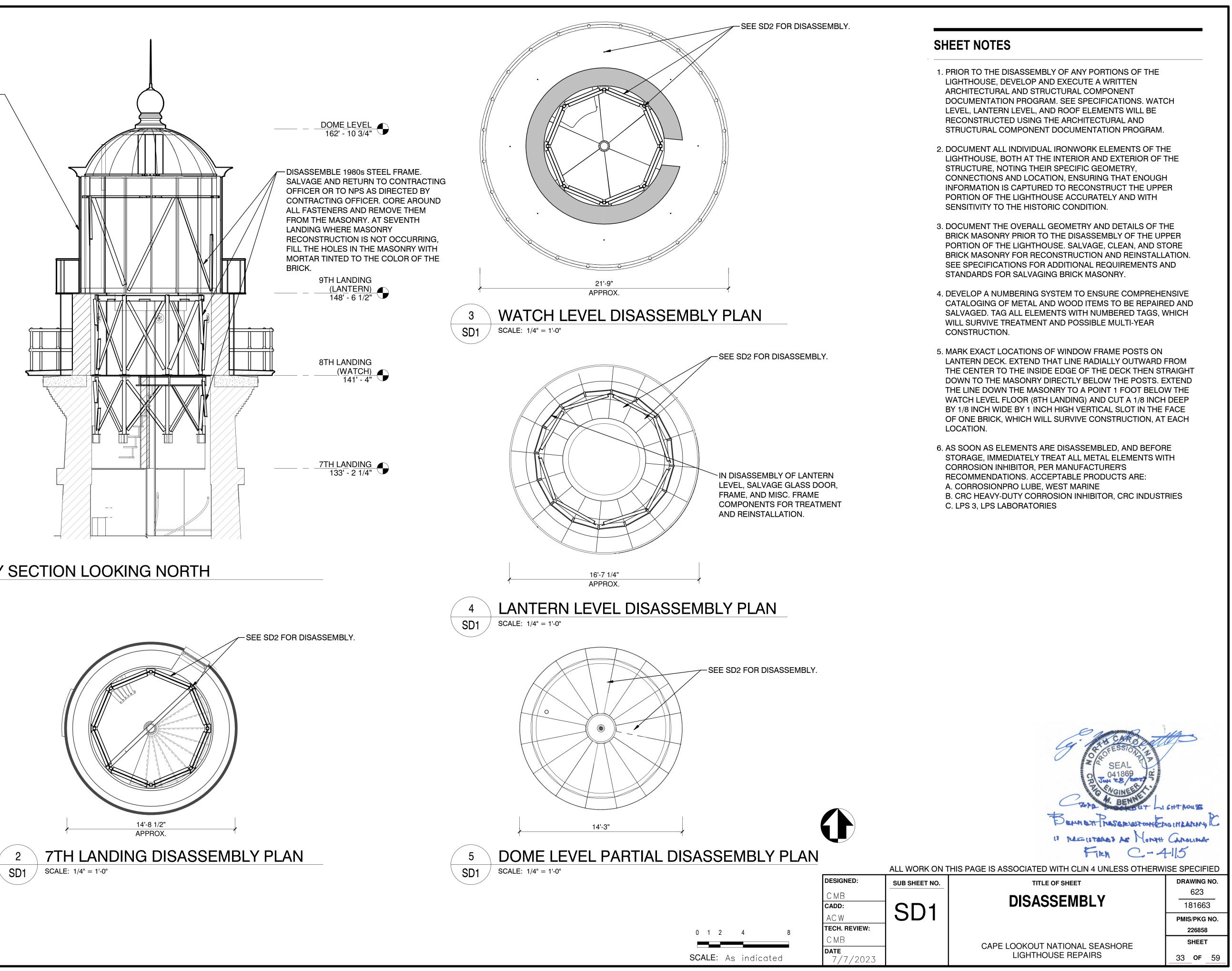


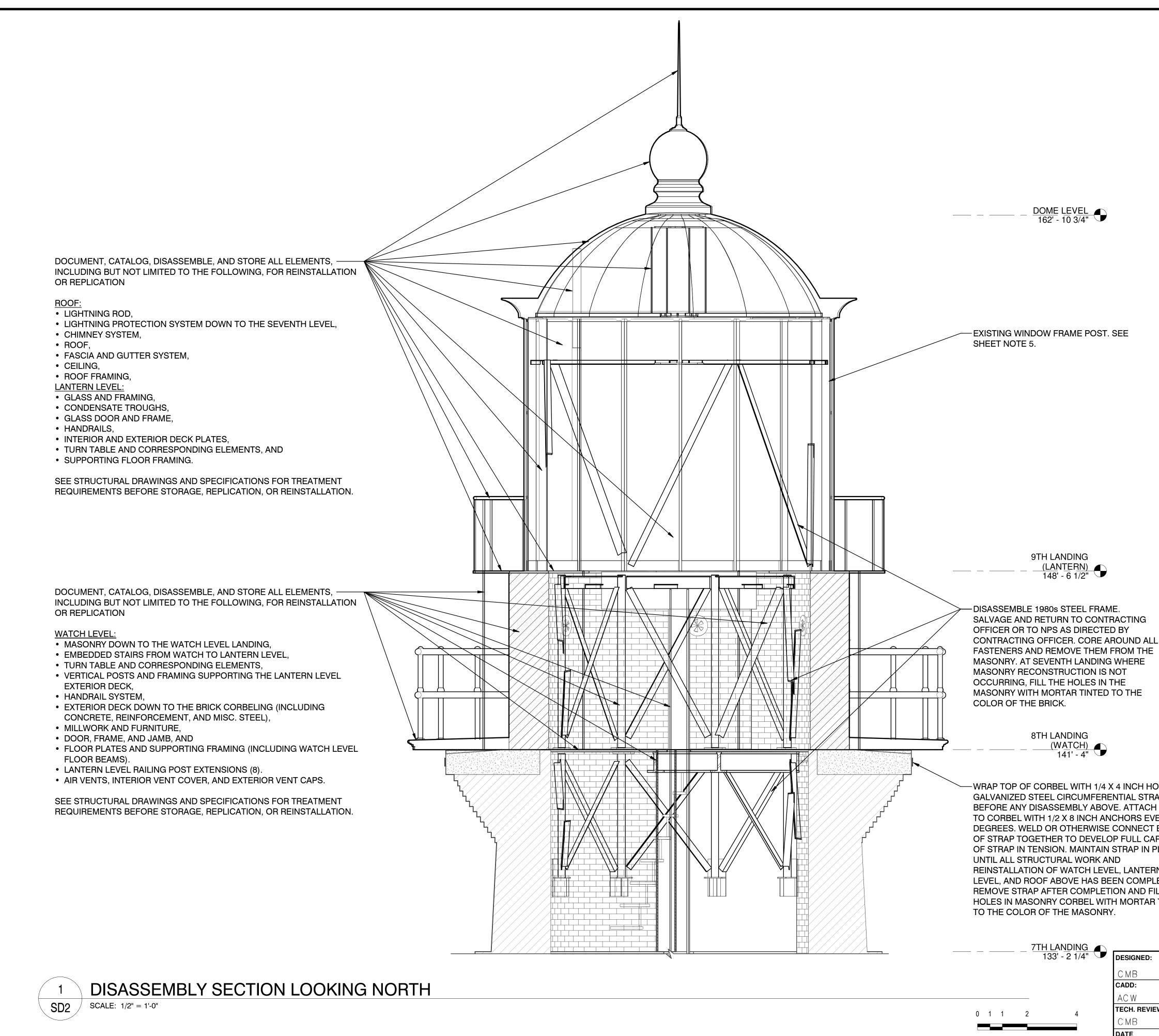
- LIGHTNING ROD,
- LIGHTNING PROTECTION SYSTEM DOWN TO THE SEVENTH LEVEL,
- CHIMNEY SYSTEM,
- ROOF.
- FASCIA AND GUTTER SYSTEM,
- CEILING,
- ROOF FRAMING,
- LANTERN LEVEL:
- GLASS AND FRAMING,
- CONDENSATE TROUGHS, • GLASS DOOR AND FRAME.
- HANDRAILS.
- INTERIOR AND EXTERIOR DECK PLATES,
- TURN TABLE AND CORRESPONDING ELEMENTS. AND
- SUPPORTING FLOOR FRAMING.
- WATCH LEVEL:
- MASONRY DOWN TO THE WATCH LEVEL LANDING, EMBEDDED STAIRS FROM WATCH TO LANTERN
- LEVEL, • TURN TABLE AND CORRESPONDING ELEMENTS,
- VERTICAL POSTS AND FRAMING SUPPORTING THE LANTERN LEVEL EXTERIOR DECK,
- HANDRAIL SYSTEM,
- EXTERIOR DECK DOWN TO THE BRICK CORBELING (INCLUDING CONCRETE, REINFORCEMENT, AND MISC. STEEL),
- MILLWORK AND FURNITURE,
- DOOR, FRAME, AND JAMB, AND • FLOOR PLATES AND SUPPORTING FRAMING
- (INCLUDING WATCH LEVEL FLOOR BEAMS). LANTERN LEVEL RAILING POST EXTENSIONS (8).
- AIR VENTS, INTERIOR VENT COVER, AND EXTERIOR VENT CAPS.

SEE STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR TREATMENT REQUIREMENTS BEFORE STORAGE. **REPLICATION. OR REINSTALLATION.** SEE SD2.



DISASSEMBLY SECTION LOOKING NORTH SD1 / SCALE: 1/4" = 1'-0"





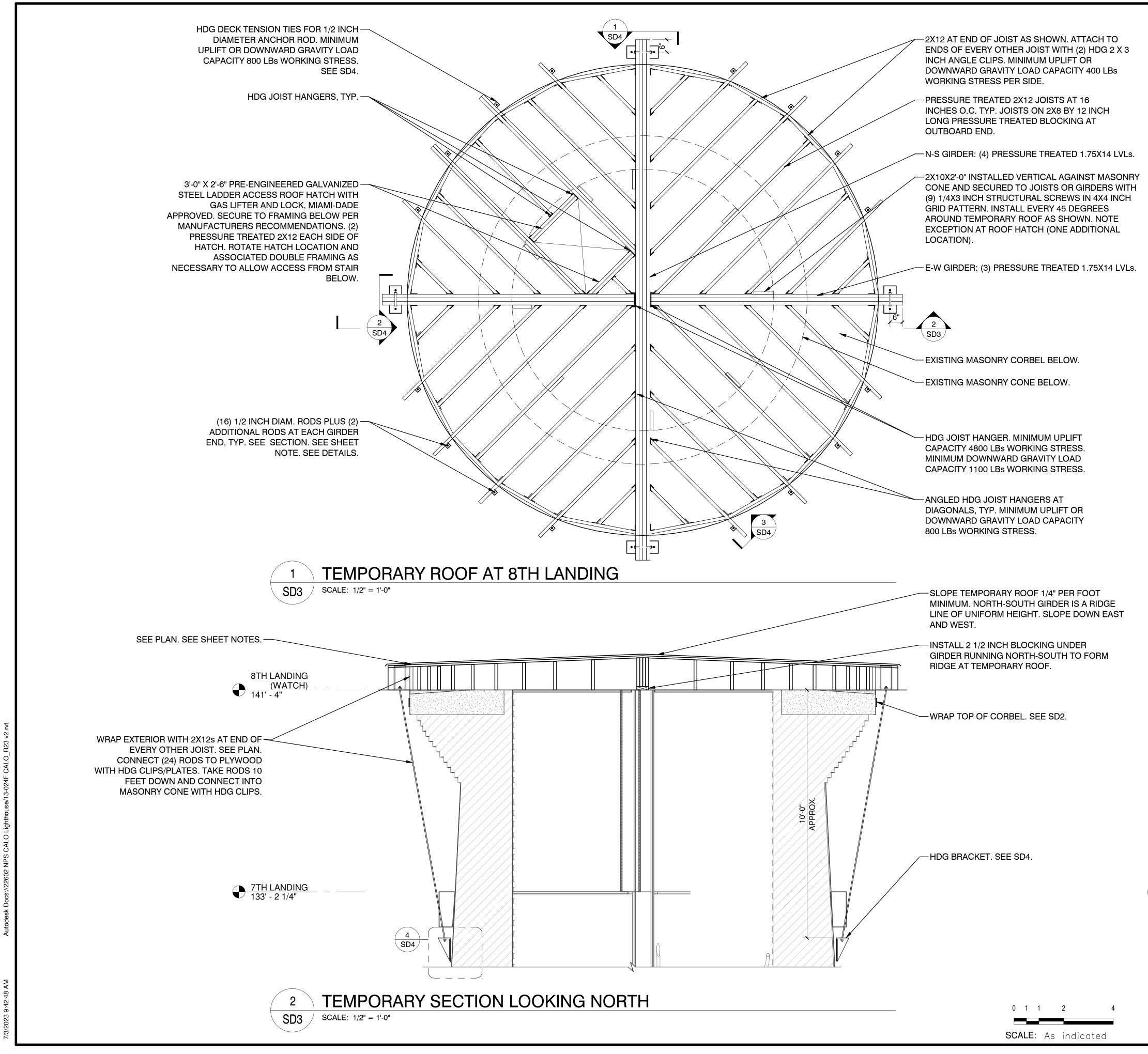
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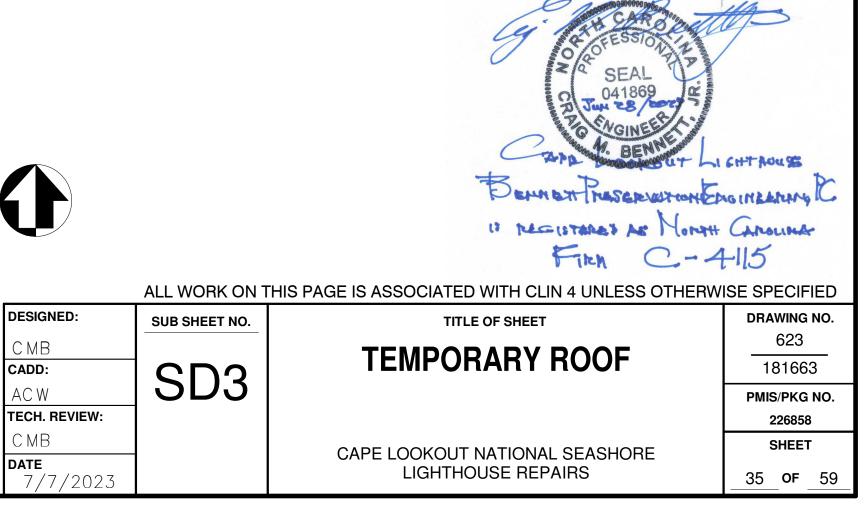
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SHEET NOTES

- 1. PRIOR TO THE DISASSEMBLY OF ANY PORTIONS OF THE LIGHTHOUSE, DEVELOP AND EXECUTE A WRITTEN ARCHITECTURAL AND STRUCTURAL COMPONENT DOCUMENTATION PROGRAM. SEE SPECIFICATIONS. WATCH LEVEL, LANTERN LEVEL, AND ROOF ELEMENTS WILL BE RECONSTRUCTED USING THE ARCHITECTURAL AND STRUCTURAL COMPONENT DOCUMENTATION PROGRAM.
- 2. DOCUMENT ALL INDIVIDUAL IRONWORK ELEMENTS OF THE LIGHTHOUSE, BOTH AT THE INTERIOR AND EXTERIOR OF THE STRUCTURE, NOTING THEIR SPECIFIC GEOMETRY, CONNECTIONS AND LOCATION, ENSURING THAT ENOUGH INFORMATION IS CAPTURED TO RECONSTRUCT THE UPPER PORTION OF THE LIGHTHOUSE ACCURATELY AND WITH SENSITIVITY TO THE HISTORIC CONDITION.
- 3. DOCUMENT THE OVERALL GEOMETRY AND DETAILS OF THE BRICK MASONRY PRIOR TO THE DISASSEMBLY OF THE UPPER PORTION OF THE LIGHTHOUSE. SALVAGE, CLEAN, AND STORE BRICK MASONRY FOR RECONSTRUCTION AND REINSTALLATION. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND STANDARDS FOR SALVAGING BRICK MASONRY.
- 4. DEVELOP A NUMBERING SYSTEM TO ENSURE COMPREHENSIVE CATALOGING OF METAL AND WOOD ITEMS TO BE REPAIRED AND SALVAGED. TAG ALL ELEMENTS WITH NUMBERED TAGS, WHICH WILL SURVIVE TREATMENT AND POSSIBLE MULTI-YEAR CONSTRUCTION.
- 5. MARK EXACT LOCATIONS OF WINDOW FRAME POSTS ON LANTERN DECK. EXTEND THAT LINE RADIALLY OUTWARD FROM THE CENTER TO THE INSIDE EDGE OF THE DECK THEN STRAIGHT DOWN TO THE MASONRY DIRECTLY BELOW THE POSTS. EXTEND THE LINE DOWN THE MASONRY TO A POINT 1 FOOT BELOW THE WATCH LEVEL FLOOR (8TH LANDING) AND CUT A 1/8 INCH DEEP BY 1/8 INCH WIDE BY 1 INCH HIGH VERTICAL SLOT IN THE FACE OF ONE BRICK, WHICH WILL SURVIVE CONSTRUCTION, AT EACH LOCATION.
- 6. AS SOON AS ELEMENTS ARE DISASSEMBLED, AND BEFORE STORAGE, IMMEDIATELY TREAT ALL METAL ELEMENTS WITH CORROSION INHIBITOR, PER MANUFACTURER'S RECOMMENDATIONS. ACCEPTABLE PRODUCTS ARE: A. CORROSIONPRO LUBE, WEST MARINE B. CRC HEAVY-DUTY CORROSION INHIBITOR, CRC INDUSTRIES
- C. LPS 3, LPS LABORATORIES

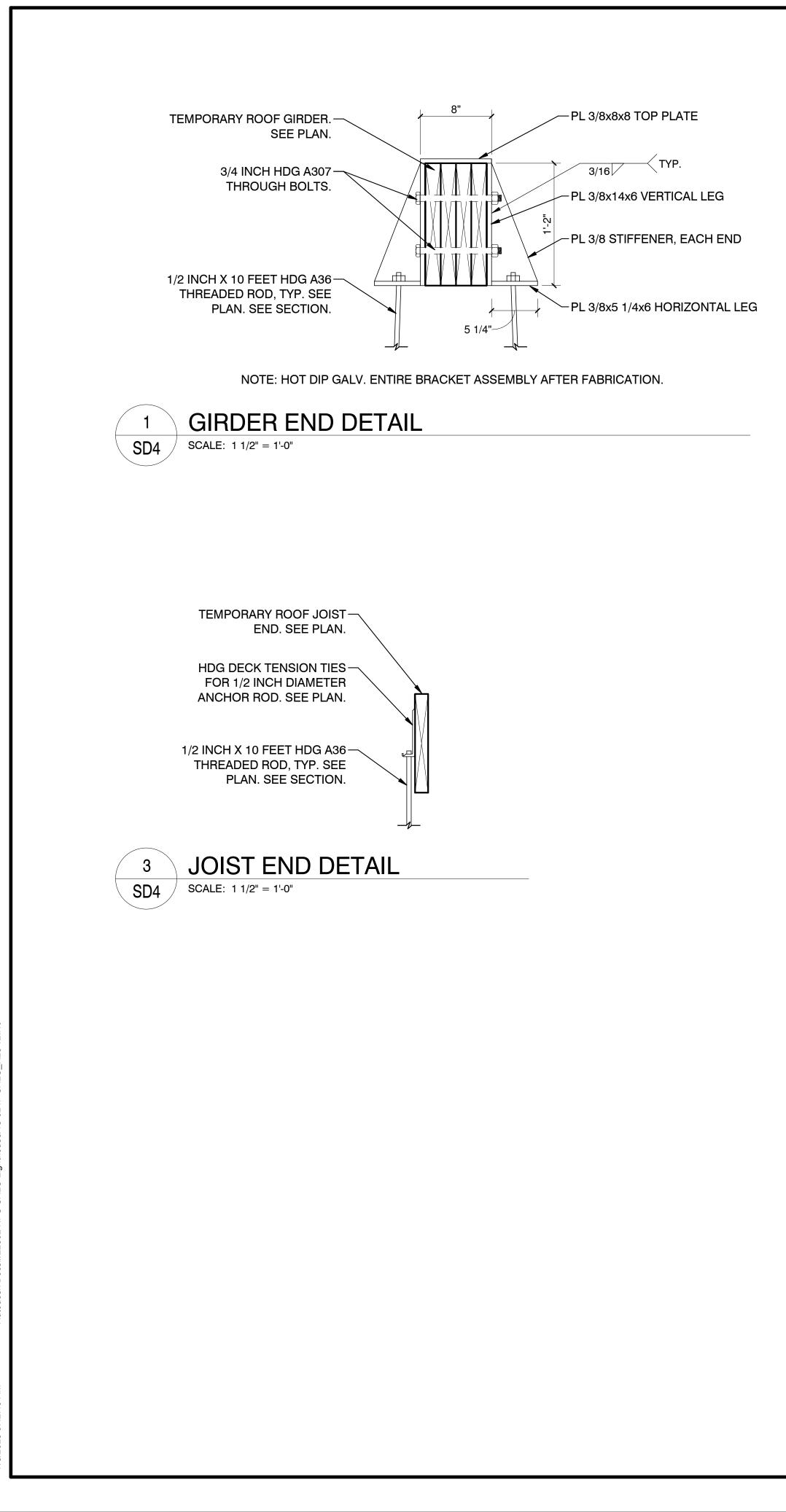
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W H. REVIEW:	302		PMIS/PKG NO. 226858	
ИВ Е /7/2023		CAPE LOOKOUT NATIONAL SEASHORE LIGHTHOUSE REPAIRS	SHEET 340f59	

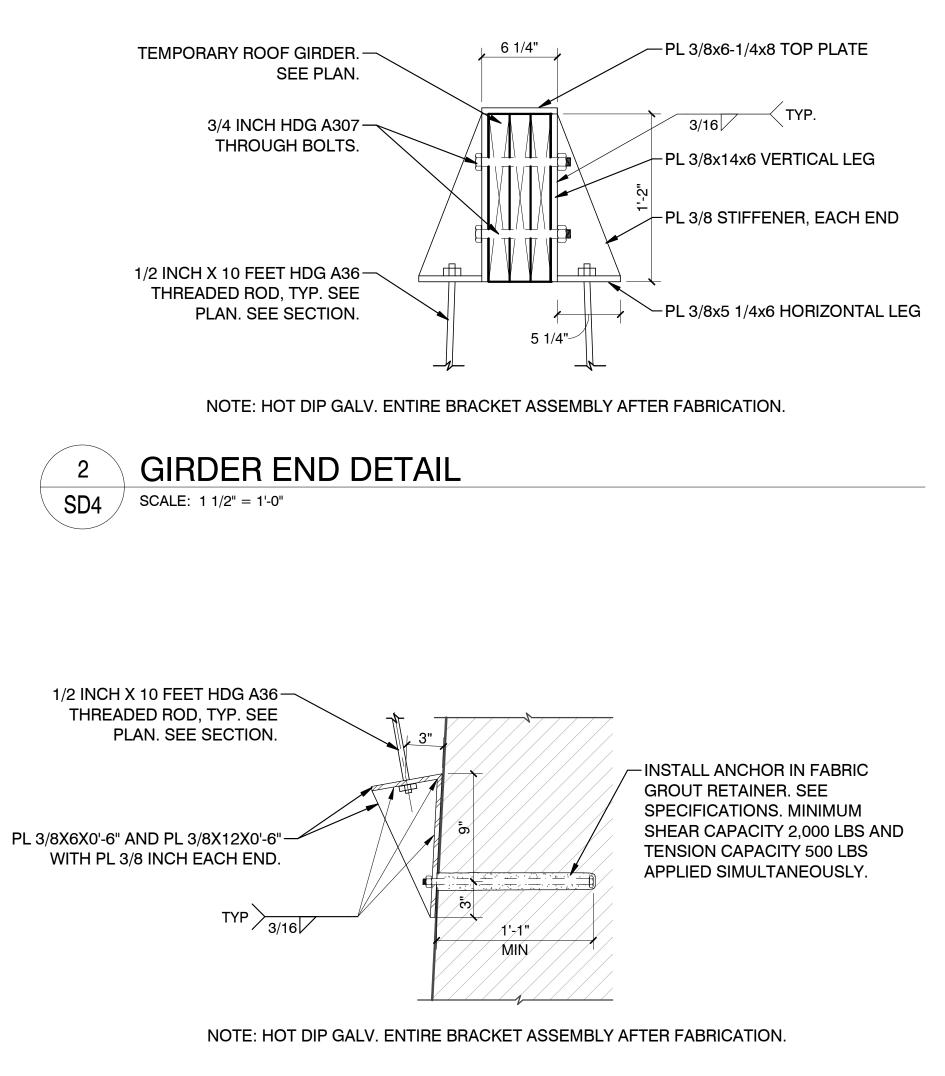




TEMPORARY ROOF NOTES:

- 1. ALL HARDWARE, INCLUDING ALL JOIST HANGERS AND ALL FASTENERS, SHALL BE HOT DIP GALVANIZED (HDG).
- 2. COVER FRAMING IN NOMINAL 1/2 INCH STRUCTURAL I PLYWOOD (15/32), BLOCKED UNDER ALL EDGES, AND SCREWED AT 4 INCHES O.C. PERIMETER AND 4 INCHES O.C. INTERIOR WITH (2) 1/2 X 8 INCH SCREWS.
- 3. COVER PLYWOOD WITH FULLY ADHERED PVC ROOFING MEMBRANE. SEE SPECIFICATIONS.
- 4. TIE DOWN TEMPORARY ROOF TO MASONRY AT THE SEVENTH LEVEL WITH RODS AROUND THE PERIMETER ON THIS LEVEL AT EVERY OTHER JOIST END, WITH TWO RODS AT EACH GIRDER END. FASTEN TO MASONRY AS SHOWN ON 4/SD4. AFTER REMOVAL OF TEMPORARY ROOF, CORE OUT AND FILL ANCHOR HOLES WITH MORTAR.
- 5. INSTALL TEMPORARY AIR TERMINALS AND RECONNECT EXISTING LIGHTNING PROTECTION SYSTEM TO TEMPORARY AIR TERMINALS. SEE GENERAL NOTES FOR DELEGATED DESIGN REQUIREMENTS.

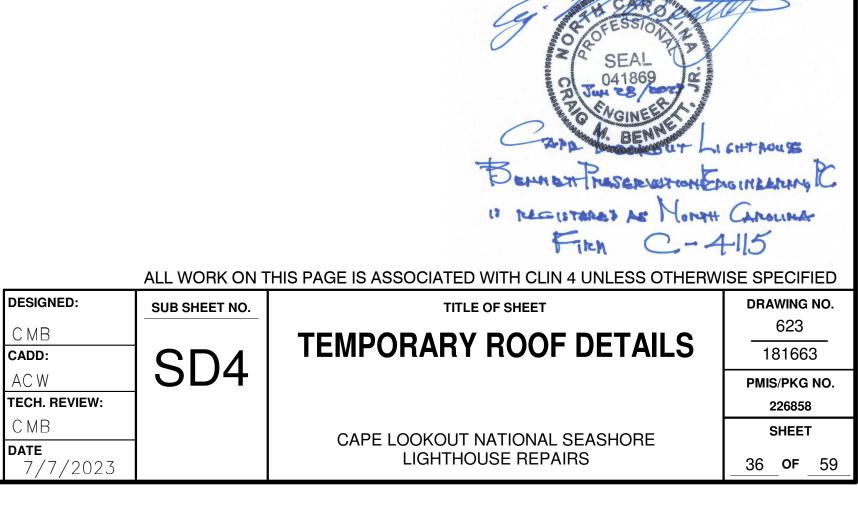


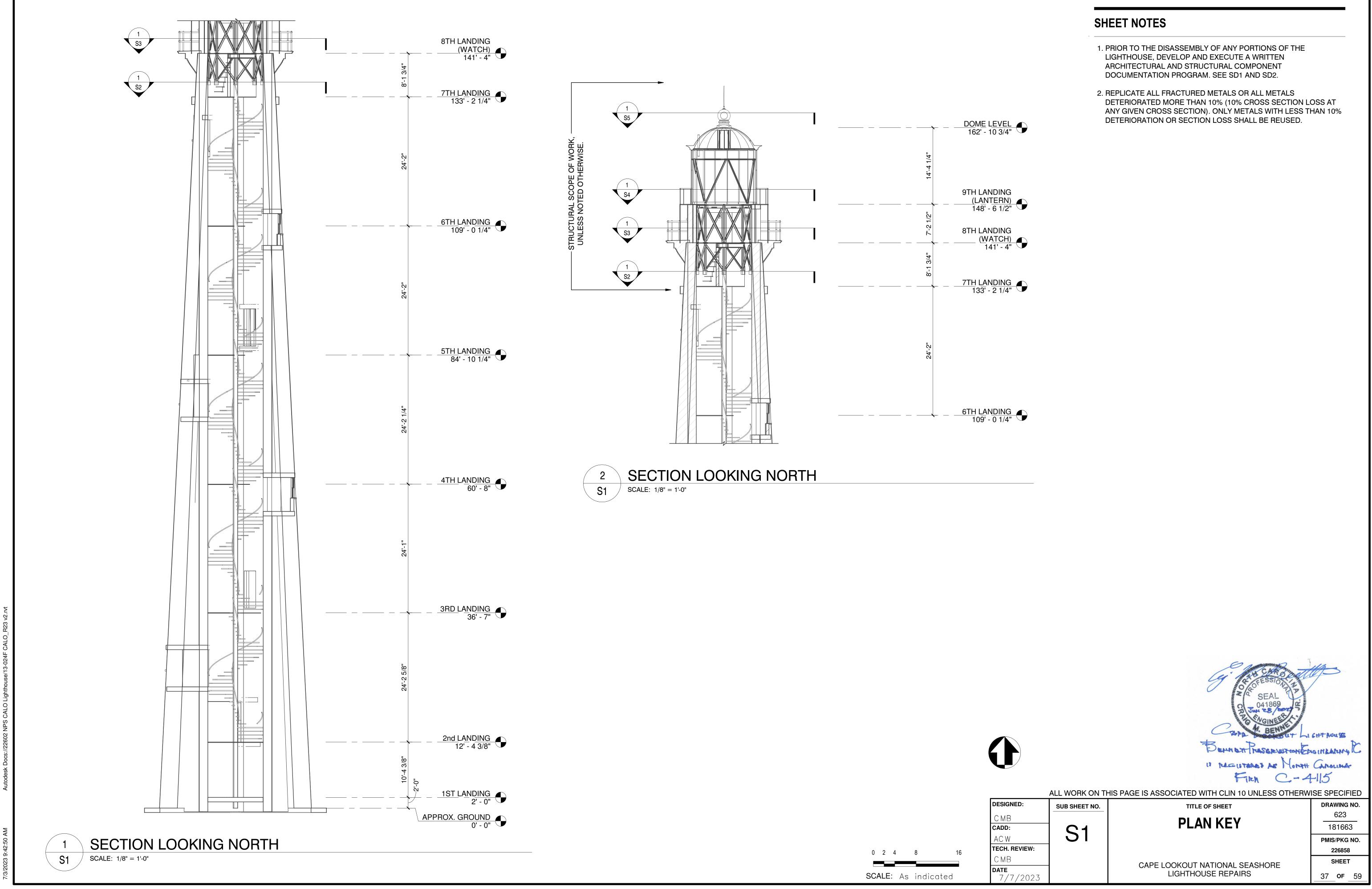


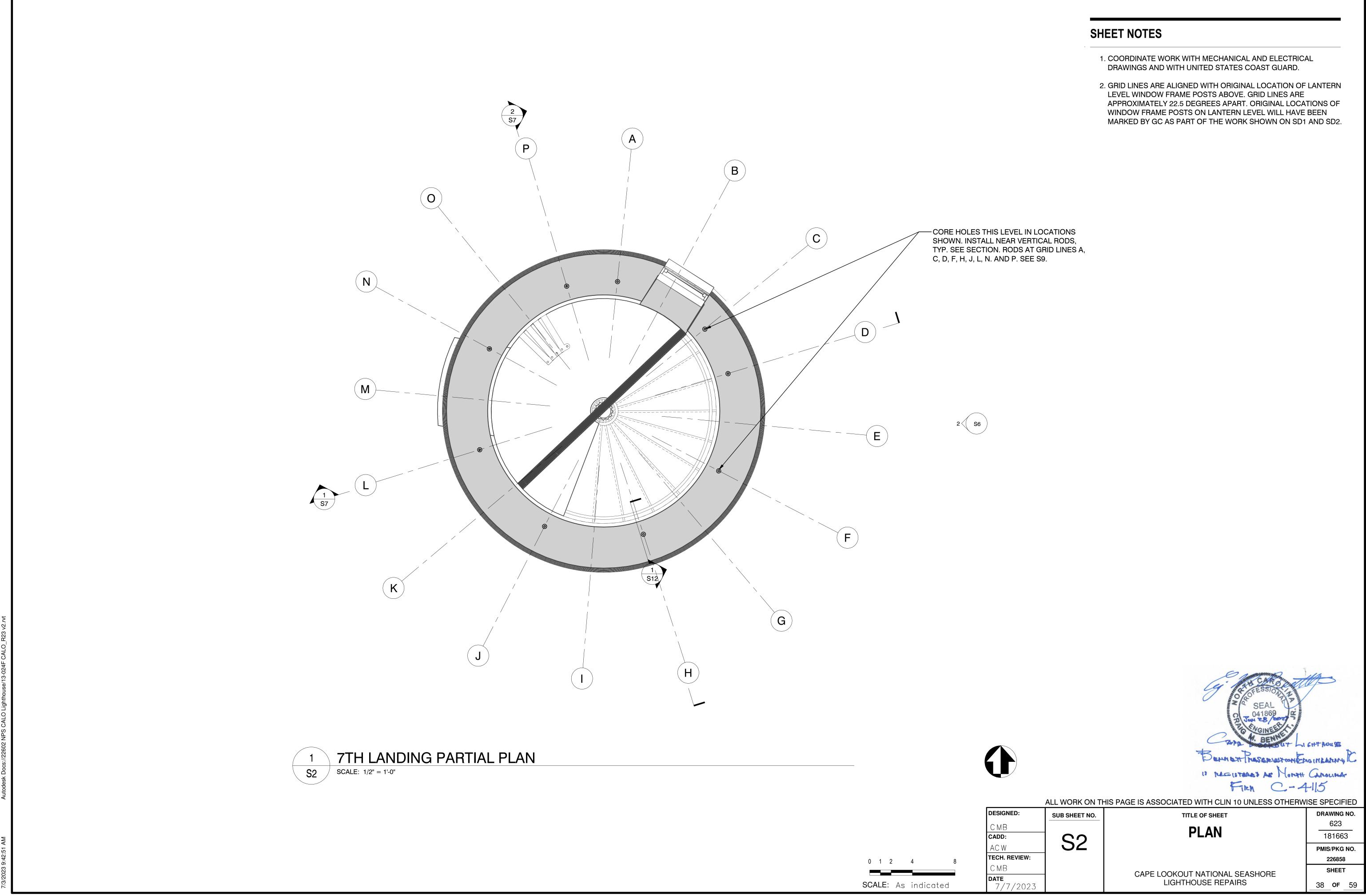


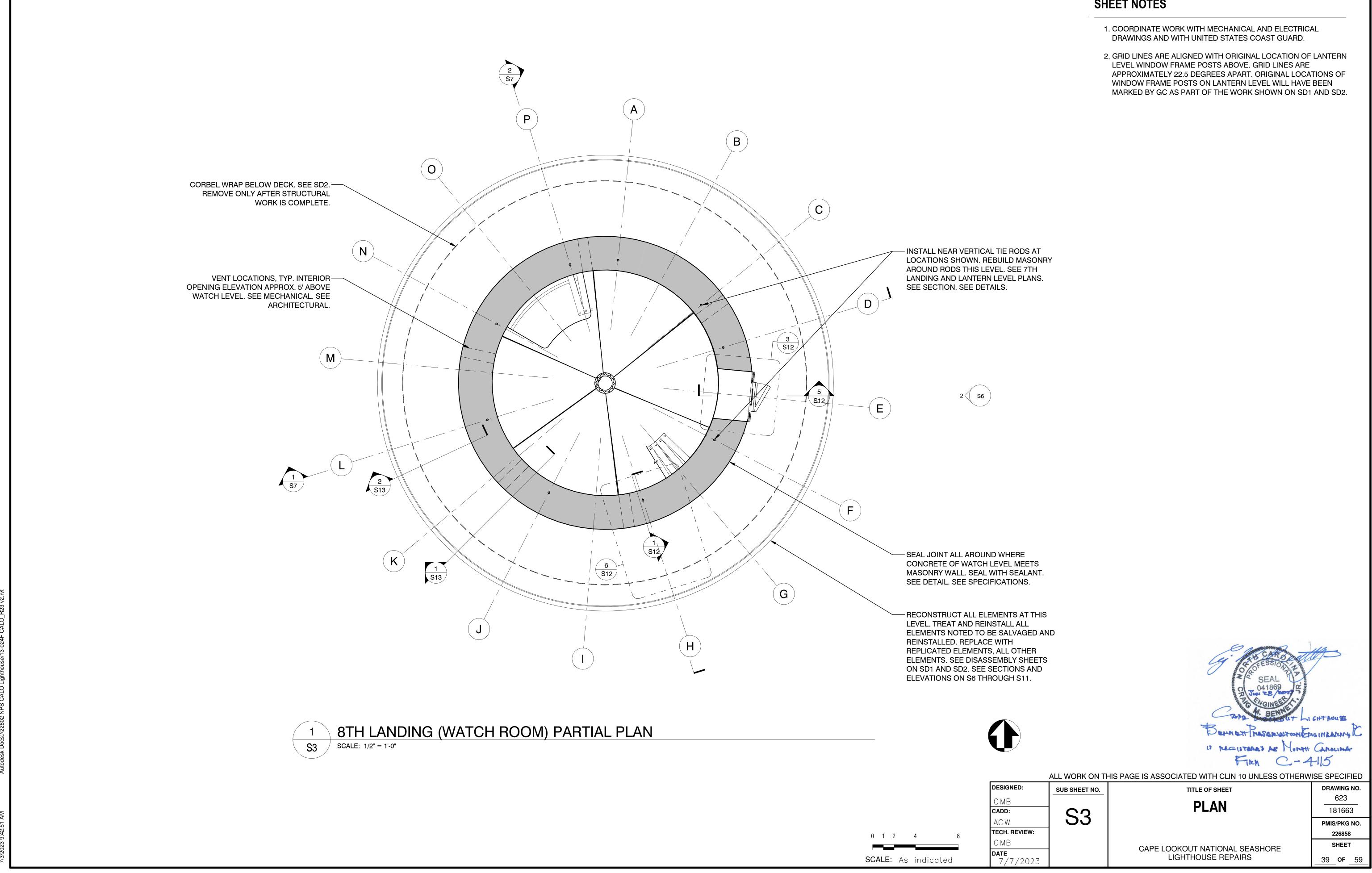
TEMPORARY ROOF NOTES:

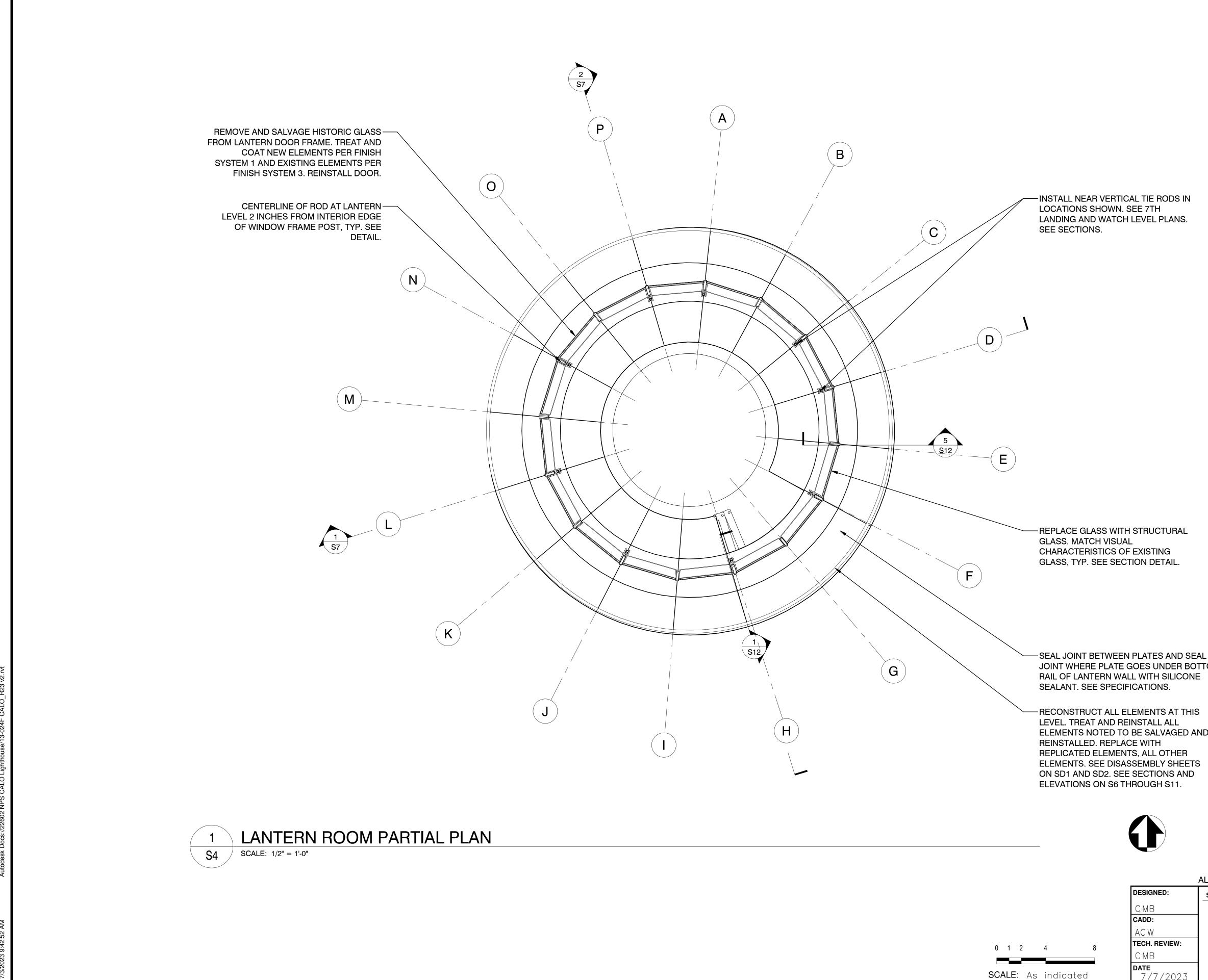
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- 5. INSTALL TEMPORARY AIR TERMINALS AND RECONNECT EXISTING LIGHTNING PROTECTION SYSTEM TO TEMPORARY AIR TERMINALS. SEE GENERAL NOTES FOR DELEGATED DESIGN REQUIREMENTS.









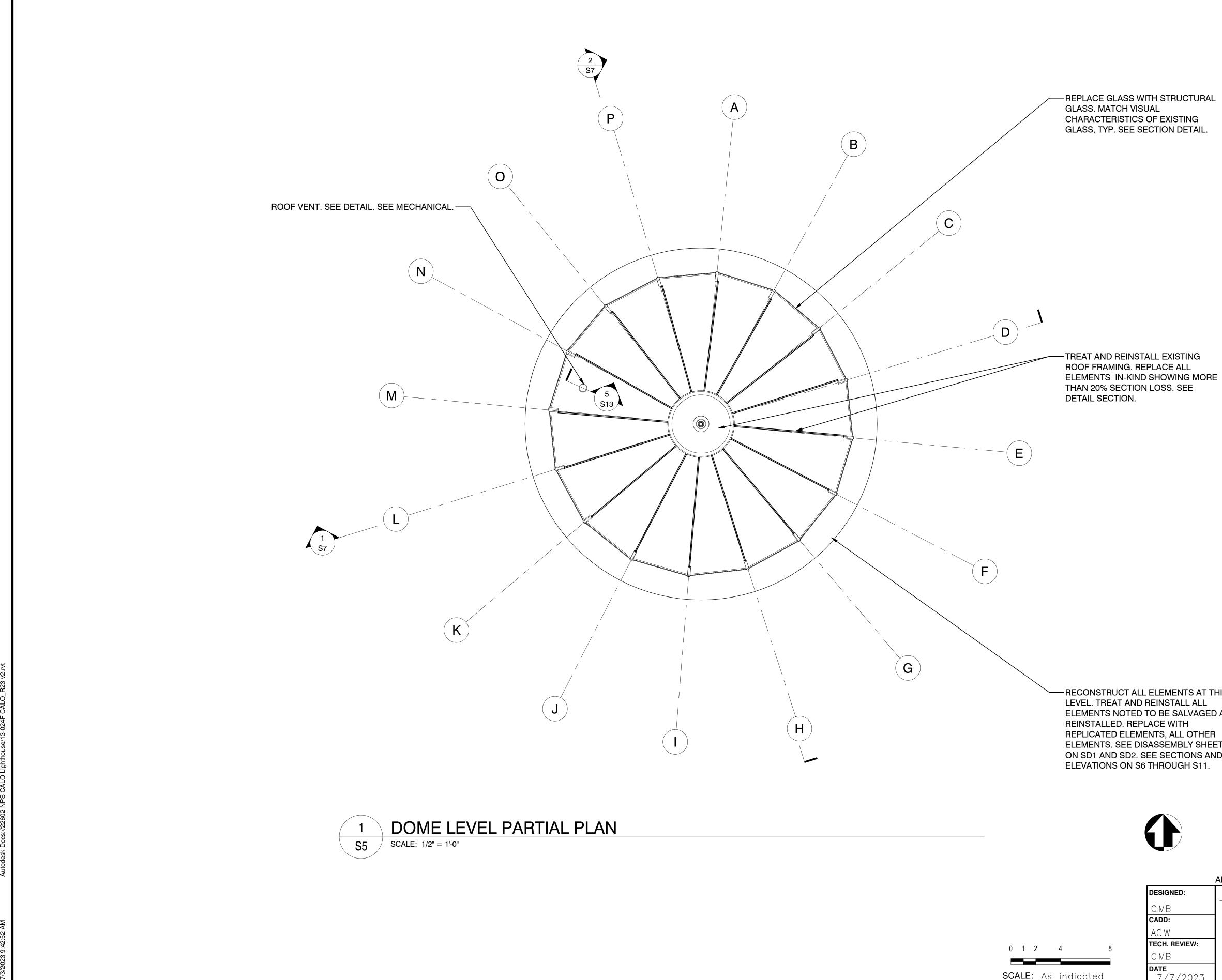


SCALE: As indicated

SHEET NOTES

- 1. COORDINATE WORK WITH MECHANICAL AND ELECTRICAL DRAWINGS AND WITH UNITED STATES COAST GUARD.
- 2. GRID LINES ARE ALIGNED WITH ORIGINAL LOCATION OF LANTERN LEVEL WINDOW FRAME POSTS ABOVE. GRID LINES ARE APPROXIMATELY 22.5 DEGREES APART. ORIGINAL LOCATIONS OF WINDOW FRAME POSTS ON LANTERN LEVEL WILL HAVE BEEN MARKED BY GC AS PART OF THE WORK SHOWN ON SD1 AND SD2.

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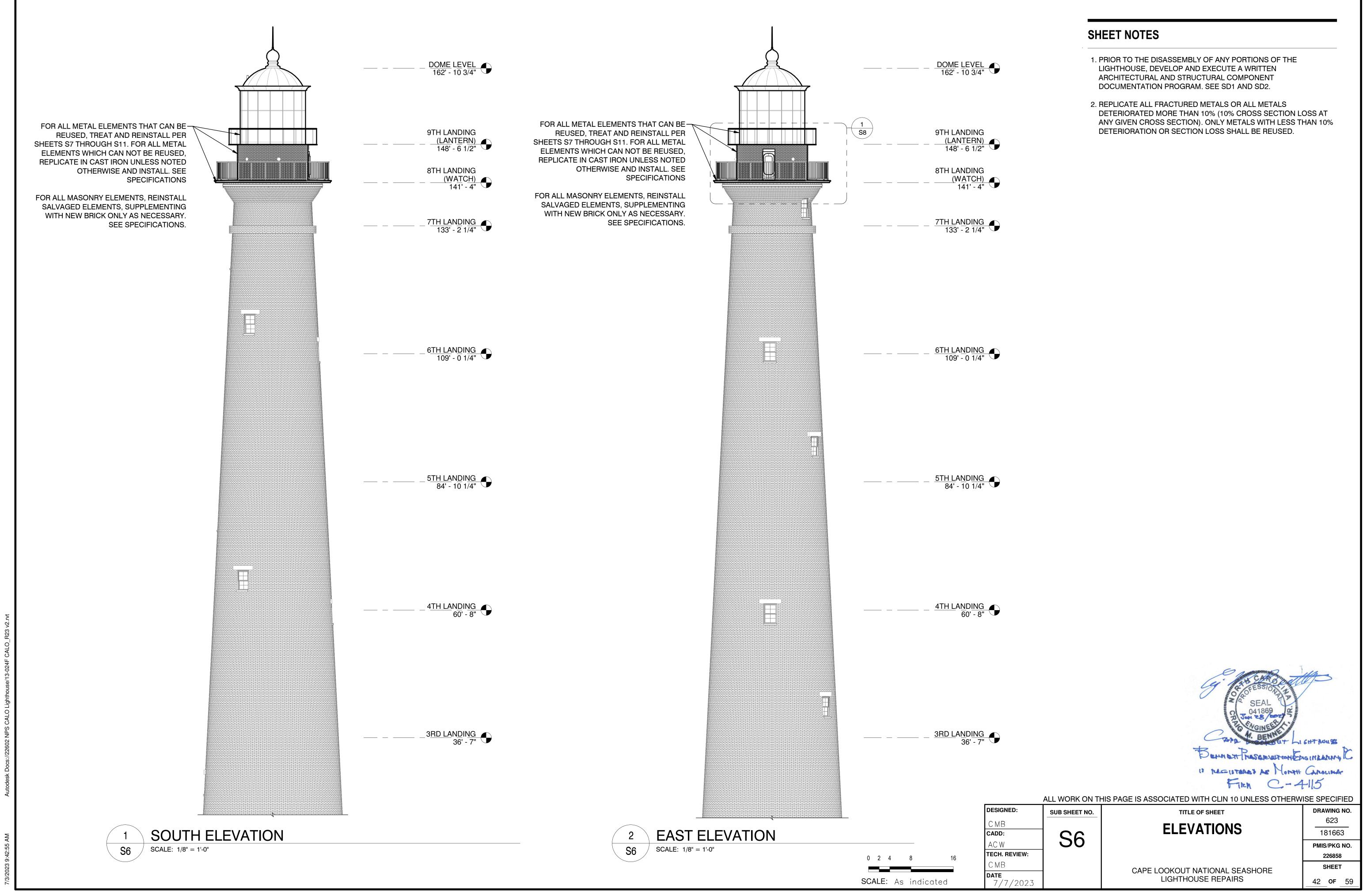
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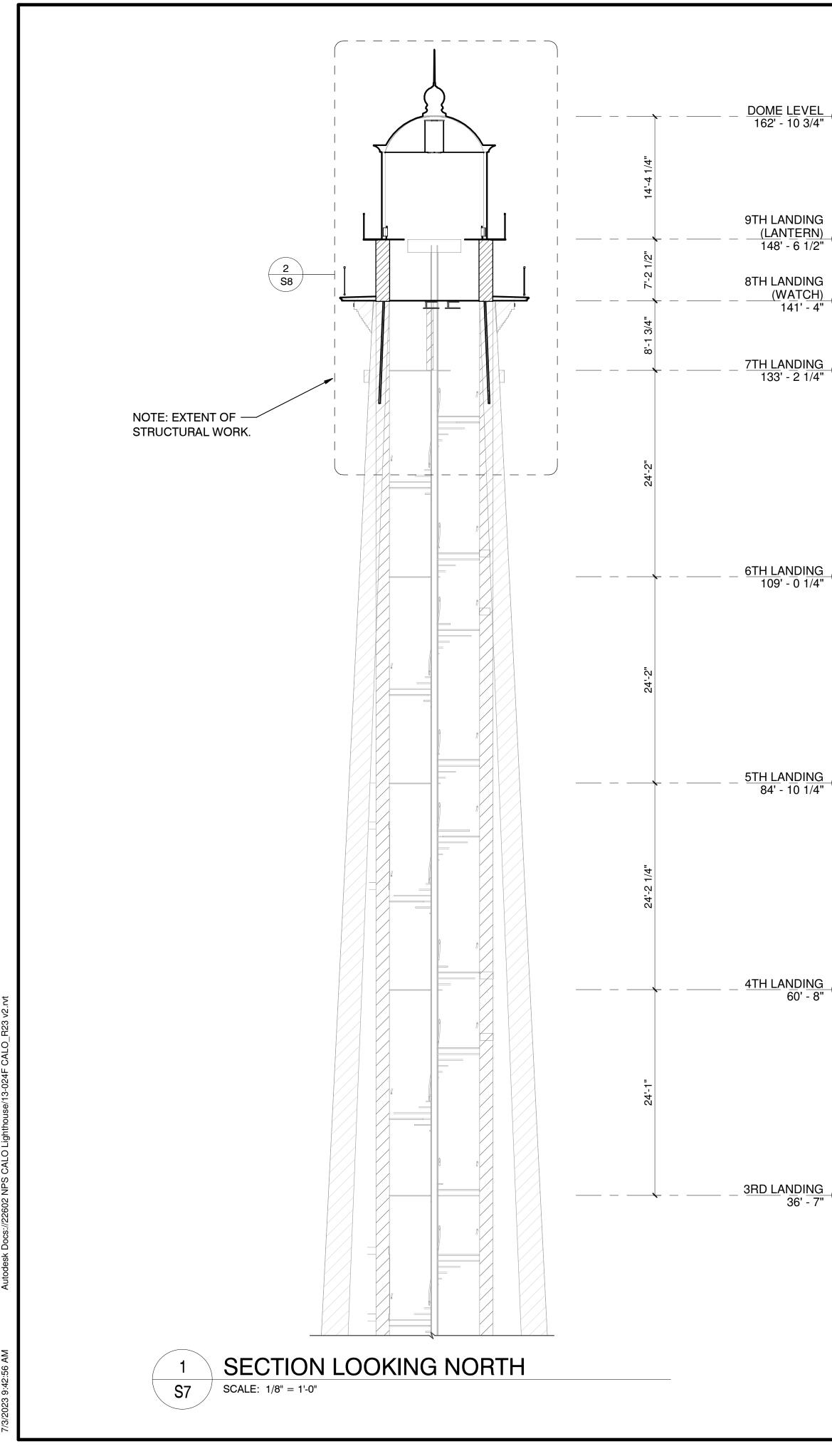
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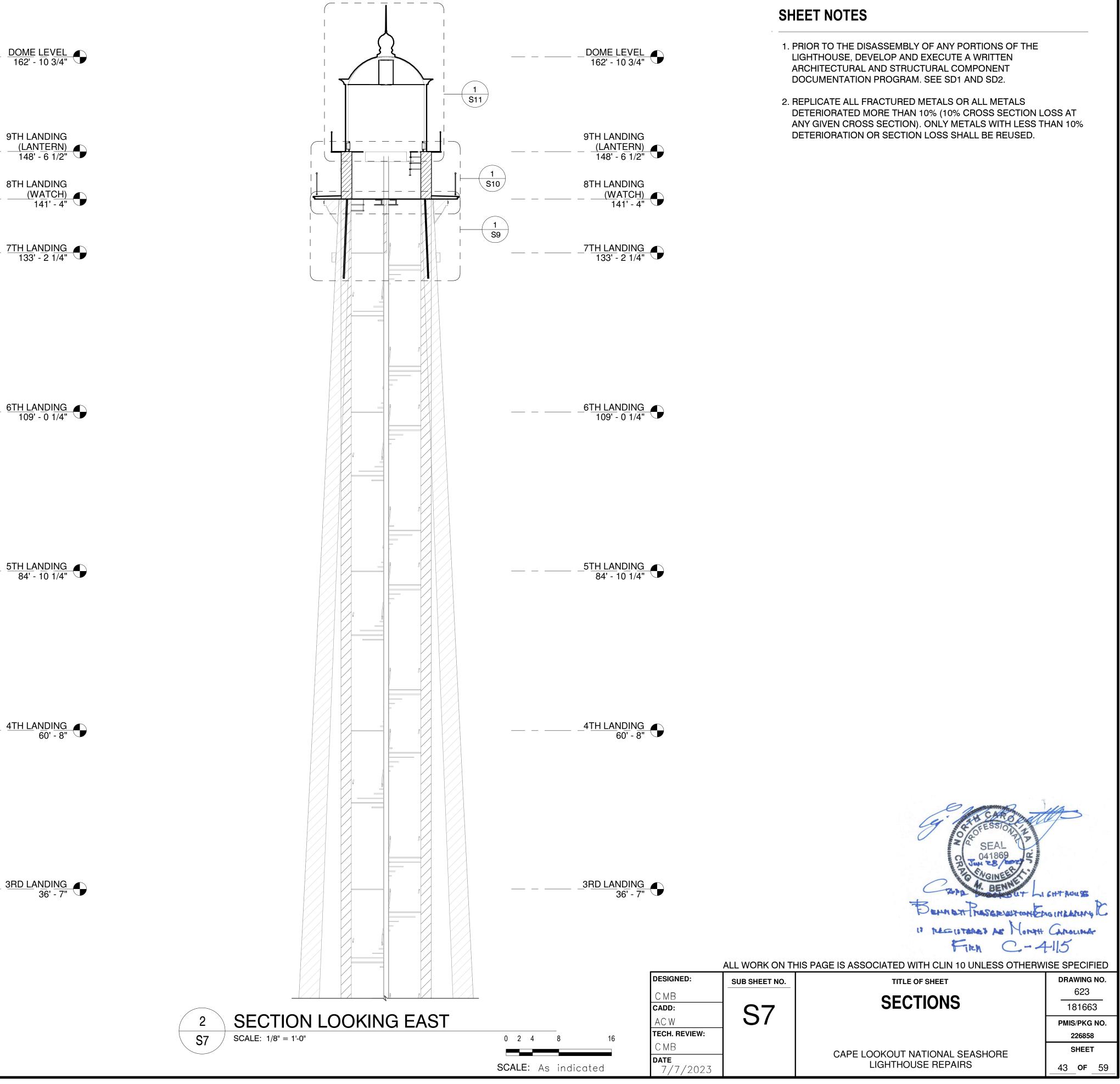
SHEET NOTES

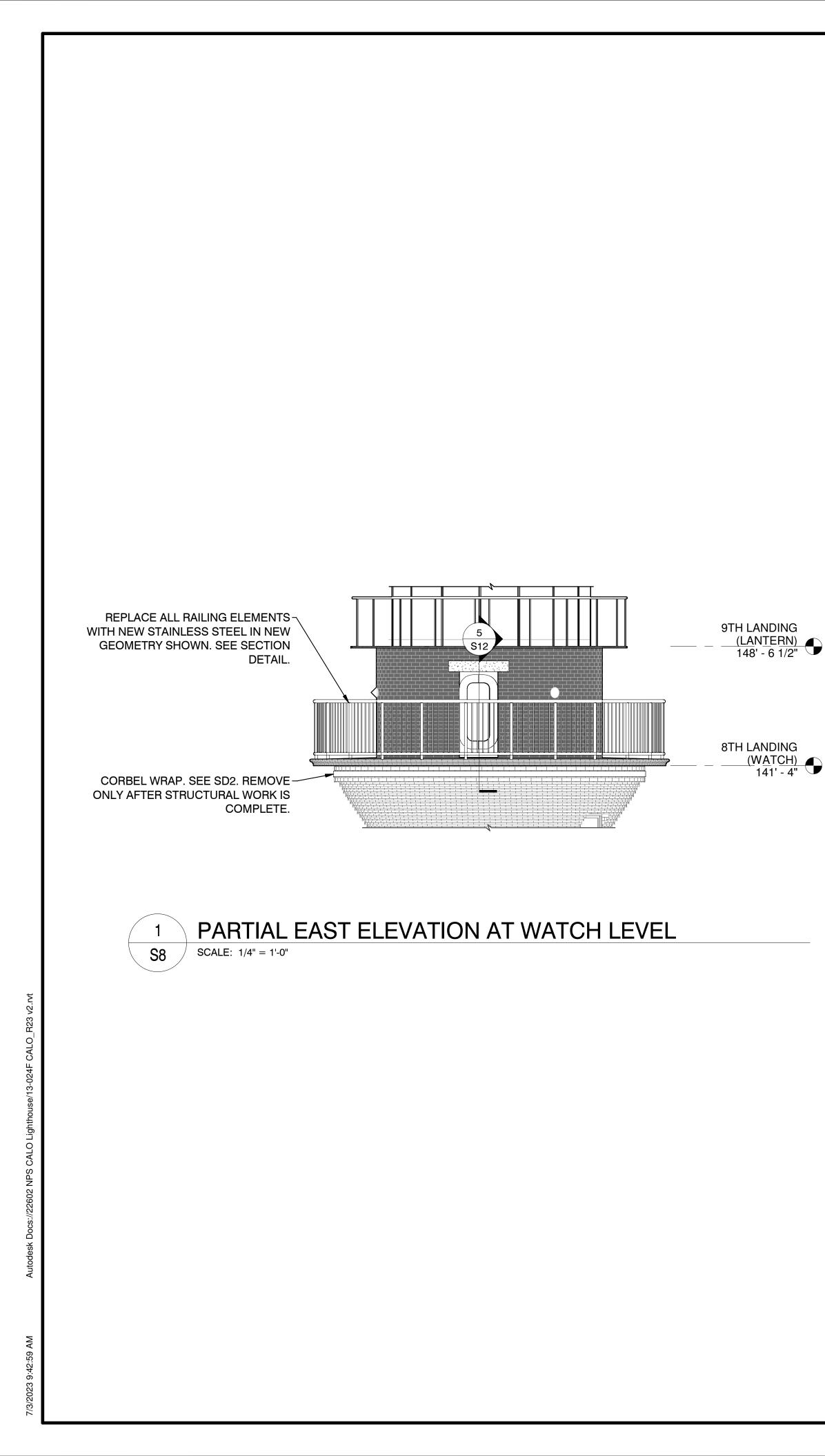
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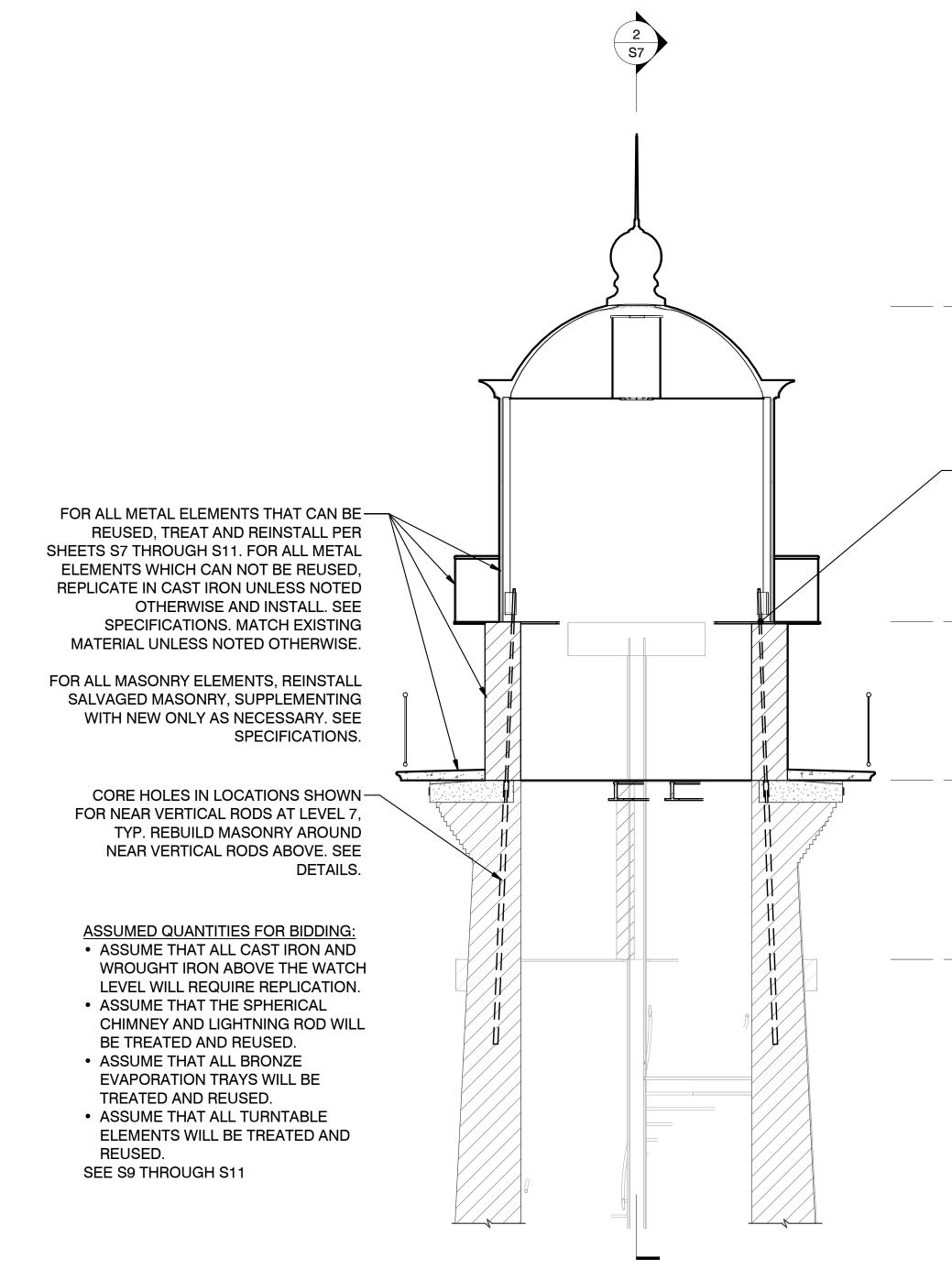
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/7/2023		LIGHTHOUSE REPAIRS	41 OF 59











SECTION LOOKING NORTH

2

S8

SCALE: 1/4" = 1'-0"

8

SCALE: As indicated

0 1 2 4

SHEET NOTES

- 1. PRIOR TO THE DISASSEMBLY OF ANY PORTIONS OF THE LIGHTHOUSE, DEVELOP AND EXECUTE A WRITTEN ARCHITECTURAL AND STRUCTURAL COMPONENT DOCUMENTATION PROGRAM. SEE SD1 AND SD2.
- 2. REPLICATE ALL FRACTURED METALS OR ALL METALS DETERIORATED MORE THAN 10% (10% CROSS SECTION LOSS AT ANY GIVEN CROSS SECTION). ONLY METALS WITH LESS THAN 10% DETERIORATION OR SECTION LOSS SHALL BE REUSED.

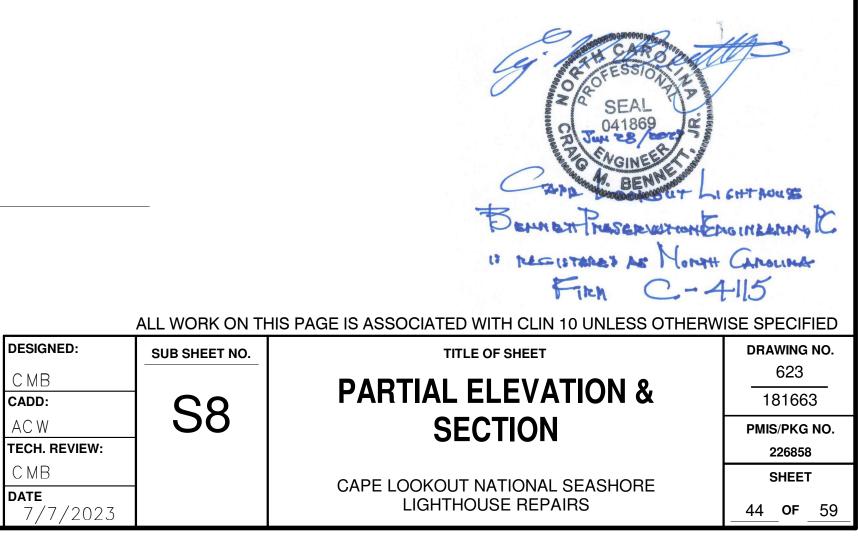
DOME LEVEL 162' - 10 3/4"

- SEE DETAILS FOR ROD TOP WORK POINT.

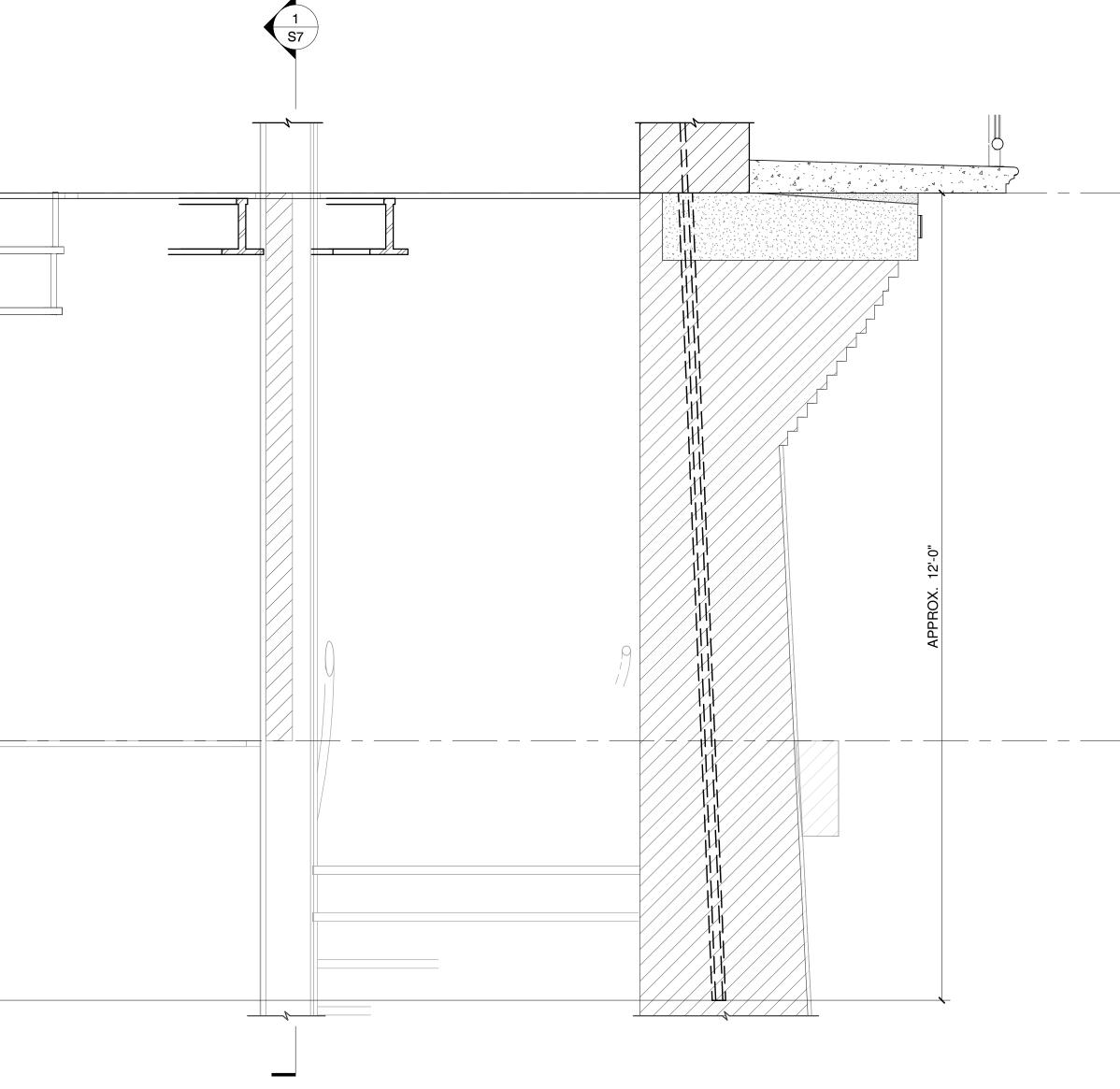
> 9TH LANDING (LANTERN) 148' - 6 1/2"

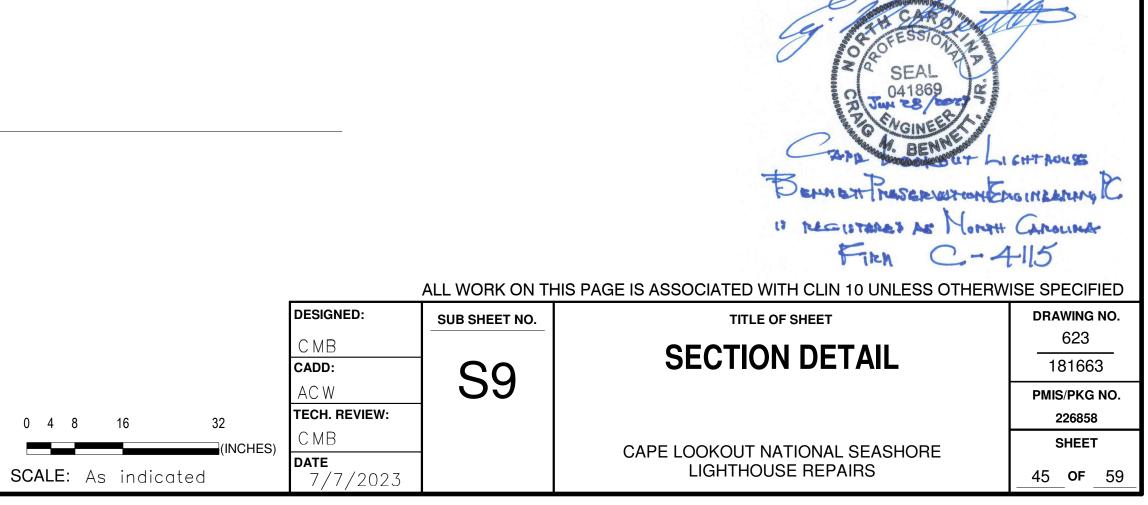
8TH LANDING (WATCH) 141' - 4"

7TH LANDING 133' - 2 1/4"



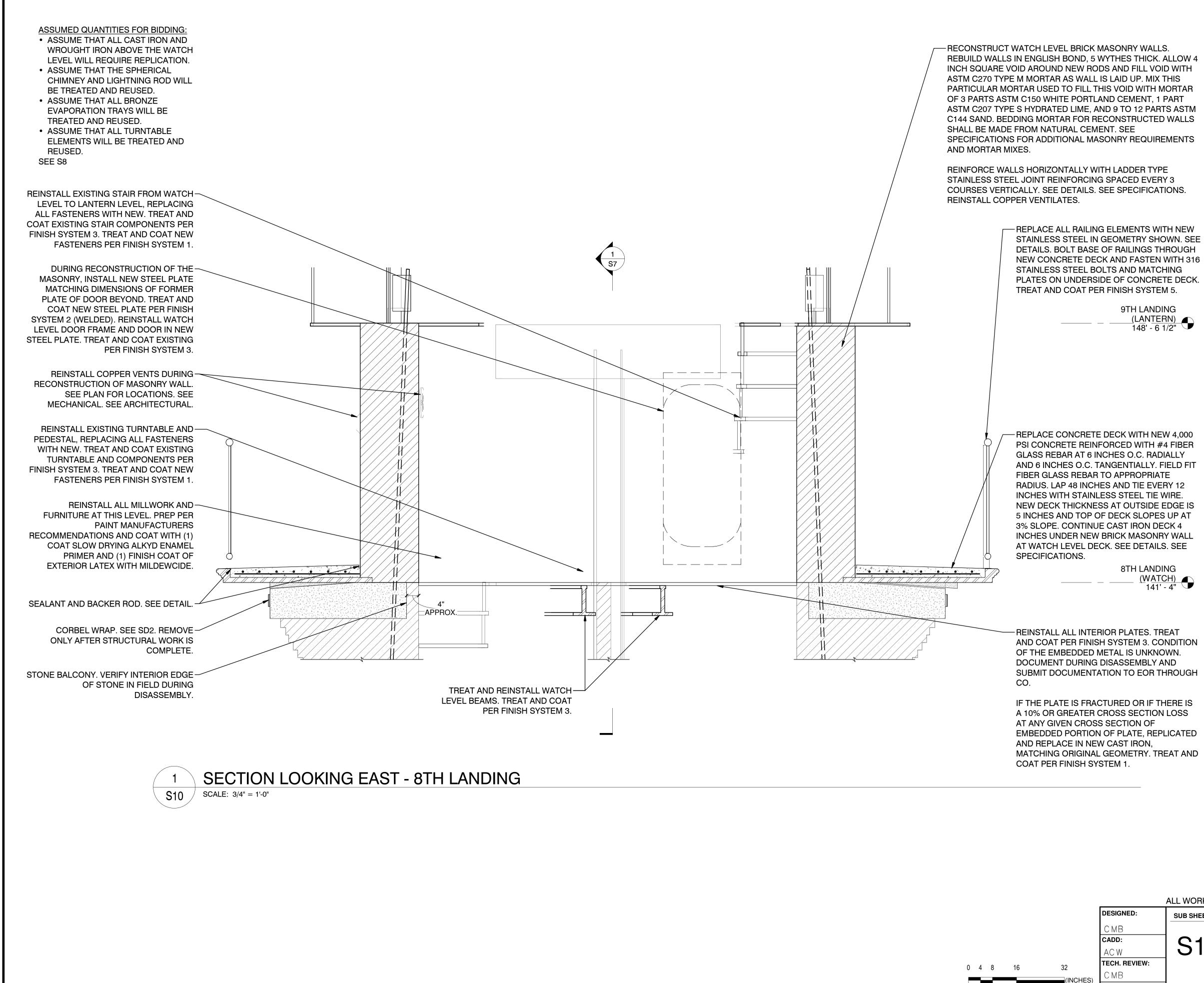
ASSUMED QUANTITIES FOR BIDDING: ASSUME THAT ALL CAST IRON AND WROUGHT IRON ABOVE THE WATCH LEVEL WILL REQUIRE REPLICATION. • ASSUME THAT THE SPHERICAL CHIMNEY AND LIGHTNING ROD WILL BE TREATED AND REUSED. ASSUME THAT ALL BRONZE **EVAPORATION TRAYS WILL BE** TREATED AND REUSED. • ASSUME THAT ALL TURNTABLE ELEMENTS WILL BE TREATED AND REUSED. SEE S8 8TH LANDING (WATCH) 141' - 4" IN LOCATION SHOWN IN PLANS AT TOP OF MASONRY-AT THE WATCH LEVEL DECK, CORE 2 1/2 INCH DIAM. HOLE 12 FEET DOWN INTO MASONRY OF CONE OF LIGHTHOUSE. ALIGN CORE HOLES WITH FINAL LOCATION OF ALTERNATING WINDOW FRAME POSTS, USING 1/8 X 1/8 X 2 INCH CUTS IN MASONRY MADE BEFORE DISASSEMBLY. ALIGN CORE HOLES PER WATCH LEVEL AND LANTERN LEVEL PLANS. INSTALL (9) NEW 1 INCH DIAM. 316 STAINLESS STEEL THREADED RODS (ANCHORS) IN FABRIC GROUT RETAINER IN CORE HOLES. RODS EXTEND FROM 12 FEET BELOW WATCH LEVEL DECK TO APPROXIMATELY 1'-6" ABOVE LANTERN LEVEL DECK. FINISH BOTTOM OF ROD WITH 1/4 INCH THICK STAINLESS STEEL WASHER OF MAXIMUM DIAMETER TO FIT IN CORE HOLE (APPROX. 2 1/2 INCH OUTER DIAM.). SUBMIT ENGINEERING CALCULATIONS SHOWING ROD CAPACITY. ENGINEER MUST BE REGISTERED IN NORTH CAROLINA. MINIMUM WORKING UPLIFT FORCE: 7.5 KIPS. ROD SIZES SHOWN ABOVE ARE MINIMUMS. CORE HOLE DIAMETER LARGER THAN THAT SHOWN REQUIRES APPROVAL BY EOR THOUGH CO. • 7TH LANDING 133' - 2 1/4" LOCATE BOTTOM OF ROD AT MID-DEPTH OF -MASONRY WALL. SEE 1/S12. SECTION LOOKING EAST - 7TH LANDING S9 SCALE: 3/4" = 1'-0"





FINISHING SYSTEM SCHEDULE:

- 1. FOR NEW STEEL AND CAST IRON THAT CAN BE INSTALLED WITHOUT WELDING, CLEAN TO BRIGHT METAL, HOT DIP GALVANIZE WITHIN 2 HOURS, LIGHTLY BRUSH BLAST THE GALVANIZING, PRIME WITH TWO-PART ALIPHATIC EPOXY PRIMER, INTERMEDIATE COAT WITH HIGH BUILD EPOXY, AND OVERCOAT WITH TWO COATS OF POLYURETHANE. SEE SPECIFICATIONS.
- 2. FOR ALL NEW STEEL AND CAST IRON THAT MUST BE WELDED, HOT DIP GALVANIZE AND COAT AS ABOVE. WHERE WELDS OCCUR, CLEAN TO BRIGHT METAL FOR THE WELDING. AFTER WELDING, WITHIN 2 HOURS, COAT THE AREA THAT HAS BEEN CLEANED FOR WELDING WITH A ZINC-RICH THREE PART EPOXY PRIMER. INTERMEDIATE COAT WITH HIGH BUILD EPOXY. OVERCOAT WITH A SECOND COAT OF THE SAME. OVERCOAT THIRD AND FOURTH COATS WITH ACRYLIC POLYURETHANE. SEE SPECIFICATIONS.
- 3. FOR ALL EXISTING CAST IRON OR STEEL THAT IS CURRENTLY PAINTED, CLEAN DOWN TO BRIGHT METAL AND, WITHIN 2 HOURS, COAT WITH A ZINC-RICH THREE PART EPOXY PRIMER. INTERMEDIATE COAT WITH HIGH BUILD EPOXY. OVERCOAT THIRD AND FOURTH COATS WITH ACRYLIC POLYURETHANE. SEE SPECIFICATIONS.
- 4. AT ALL EXTERIOR SURFACES OF THE LIGHTHOUSE, AT ALL EDGES OF ALL PLATES WHERE THE PLATES JOIN ANOTHER PLATE, CLEAN DOWN TO BRIGHT METAL AND, WITHIN 2 HOURS, COAT WITH A ZINC RICH THREE PART EPOXY PRIMER. SEAL ALL JOINTS WITH A SILICONE SEALANT. INTERMEDIATE COAT WITH HIGH BUILD EPOXY. APPLY THIRD AND FOURTH COATS OF ACRYLIC POLYURETHANE. SEE SPECIFICATIONS.
- 5. FOR NEW STAINLESS STEEL, PRIME ANTI-CORROSIVE EPOXY PRIMER. INTERMEDIATE COAT WITH HIGH BUILD EPOXY. OVERCOAT WITH TWO FINISH COATS OF POLYURETHANE. SEE SPECIFICATIONS.
- 6. UNLESS NOTED OTHERWISE, MATCH NEW PAINT COLOR TO EXISTING PAINT COLOR.



						DESIGNED:
						СМВ
						CADD:
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0	4	8		16	32	TECH. REVIEW:
_						СМВ
CA	٩LE		As	indicated		DATE 7/7/2023

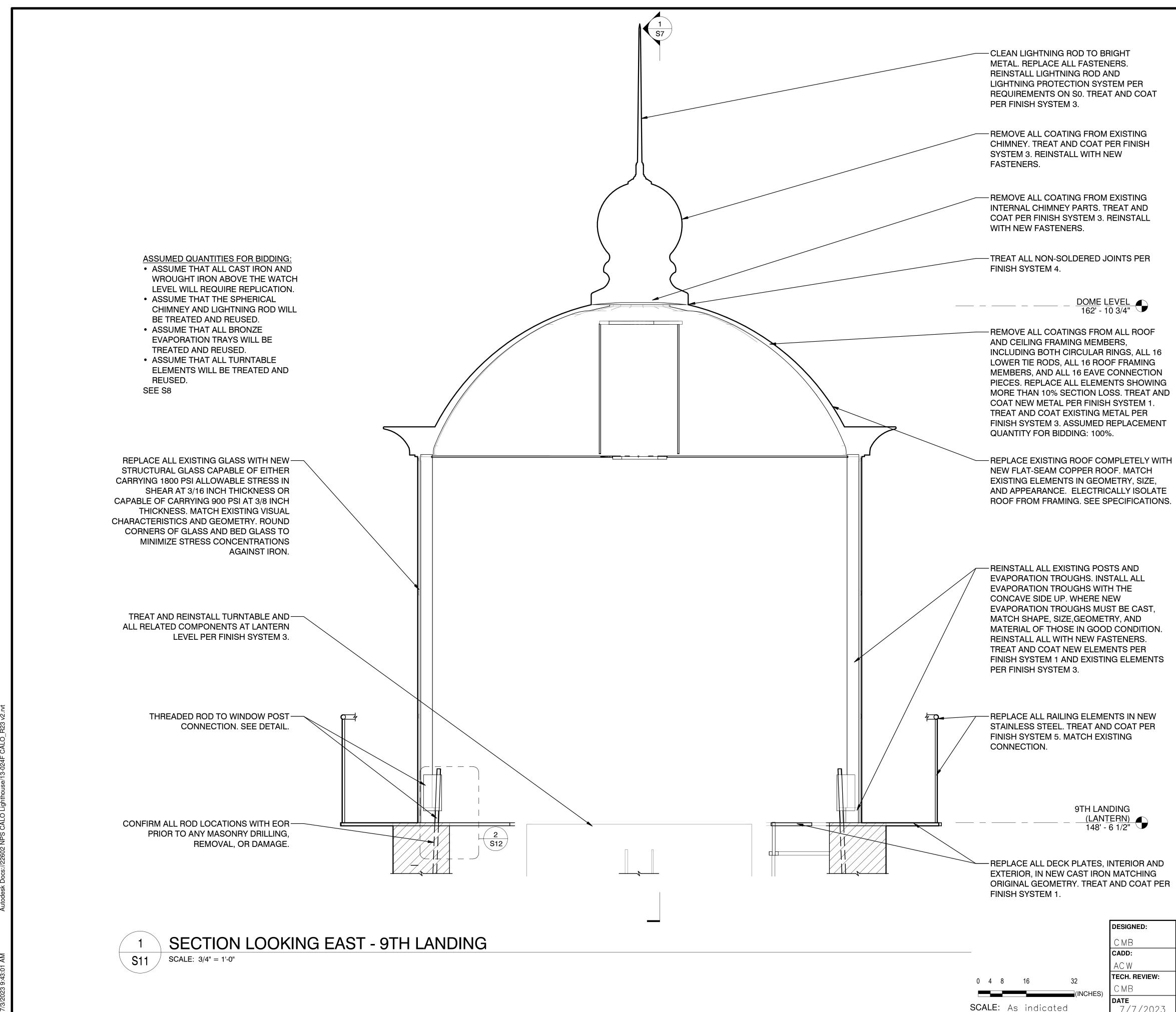
9TH LANDING (LANTERN) 148' - 6 1/2"

8TH LANDING <u>(WATCH)</u> 141' - 4"

FINISHING SYSTEM SCHEDULE:

- 1. FOR NEW STEEL AND CAST IRON THAT CAN BE INSTALLED WITHOUT WELDING, CLEAN TO BRIGHT METAL, HOT DIP GALVANIZE WITHIN 2 HOURS, LIGHTLY BRUSH BLAST THE GALVANIZING, PRIME WITH TWO-PART ALIPHATIC EPOXY PRIMER, INTERMEDIATE COAT WITH HIGH BUILD EPOXY, AND OVERCOAT WITH TWO COATS OF POLYURETHANE. SEE SPECIFICATIONS.
- 2. FOR ALL NEW STEEL AND CAST IRON THAT MUST BE WELDED, HOT DIP GALVANIZE AND COAT AS ABOVE. WHERE WELDS OCCUR, CLEAN TO BRIGHT METAL FOR THE WELDING. AFTER WELDING, WITHIN 2 HOURS, COAT THE AREA THAT HAS BEEN CLEANED FOR WELDING WITH A ZINC-RICH THREE PART EPOXY PRIMER. INTERMEDIATE COAT WITH HIGH BUILD EPOXY. OVERCOAT WITH A SECOND COAT OF THE SAME. OVERCOAT THIRD AND FOURTH COATS WITH ACRYLIC POLYURETHANE. SEE SPECIFICATIONS.
- 3. FOR ALL EXISTING CAST IRON OR STEEL THAT IS CURRENTLY PAINTED, CLEAN DOWN TO BRIGHT METAL AND, WITHIN 2 HOURS, COAT WITH A ZINC-RICH THREE PART EPOXY PRIMER. INTERMEDIATE COAT WITH HIGH BUILD EPOXY. OVERCOAT THIRD AND FOURTH COATS WITH ACRYLIC POLYURETHANE. SEE SPECIFICATIONS.
- 4. AT ALL EXTERIOR SURFACES OF THE LIGHTHOUSE, AT ALL EDGES OF ALL PLATES WHERE THE PLATES JOIN ANOTHER PLATE, CLEAN DOWN TO BRIGHT METAL AND, WITHIN 2 HOURS, COAT WITH A ZINC RICH THREE PART EPOXY PRIMER. SEAL ALL JOINTS WITH A SILICONE SEALANT. INTERMEDIATE COAT WITH HIGH BUILD EPOXY. APPLY THIRD AND FOURTH COATS OF ACRYLIC POLYURETHANE. SEE SPECIFICATIONS.
- 5. FOR NEW STAINLESS STEEL, PRIME ANTI-CORROSIVE EPOXY PRIMER. INTERMEDIATE COAT WITH HIGH BUILD EPOXY. OVERCOAT WITH TWO FINISH COATS OF POLYURETHANE. SEE SPECIFICATIONS.
- 6. UNLESS NOTED OTHERWISE, MATCH NEW PAINT COLOR TO EXISTING PAINT COLOR.

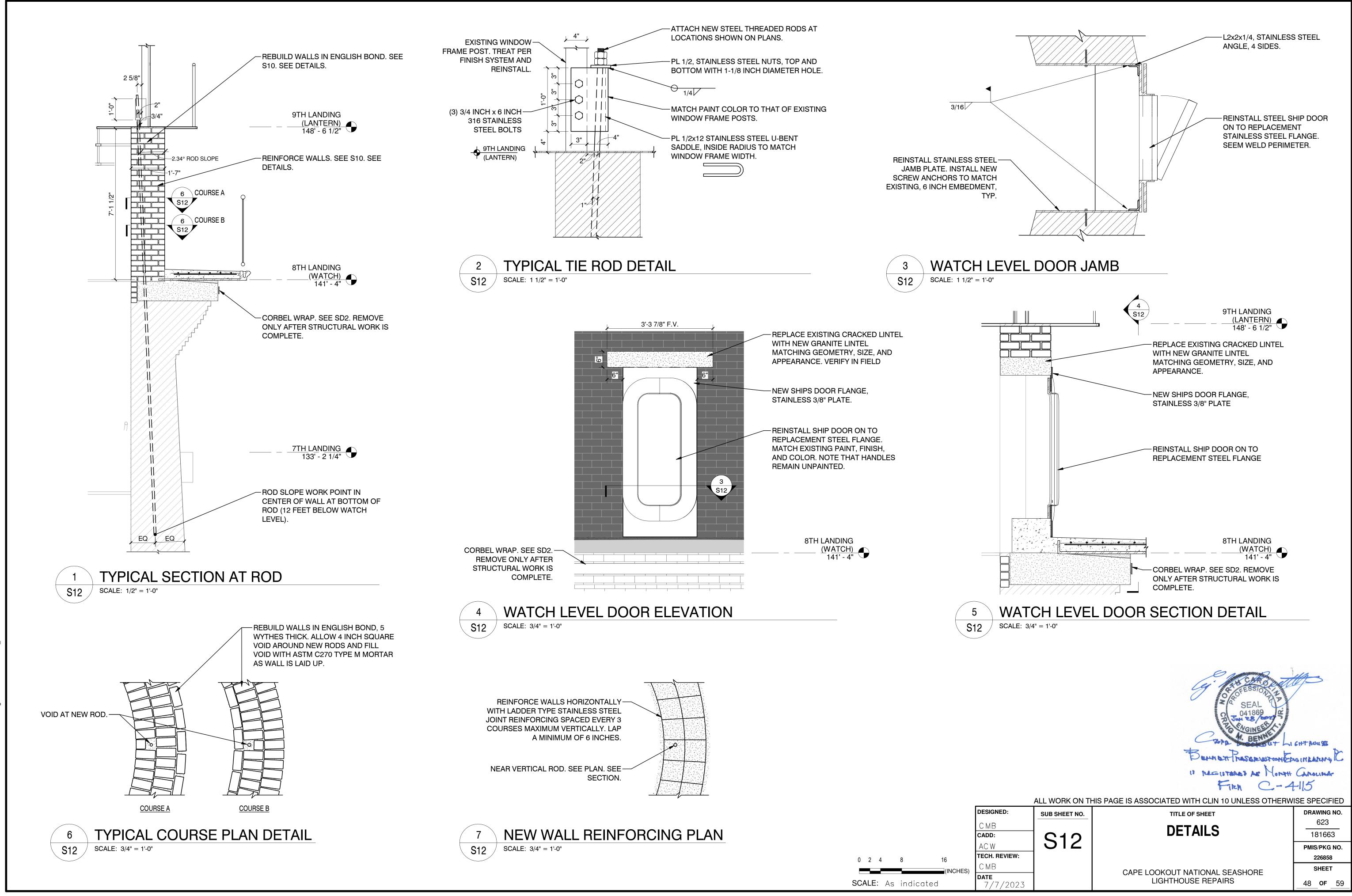
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			PMIS/PKG NO. 226858			
		CAPE LOOKOUT NATIONAL SEASHORE LIGHTHOUSE REPAIRS	SHEET 46 ОF 59			



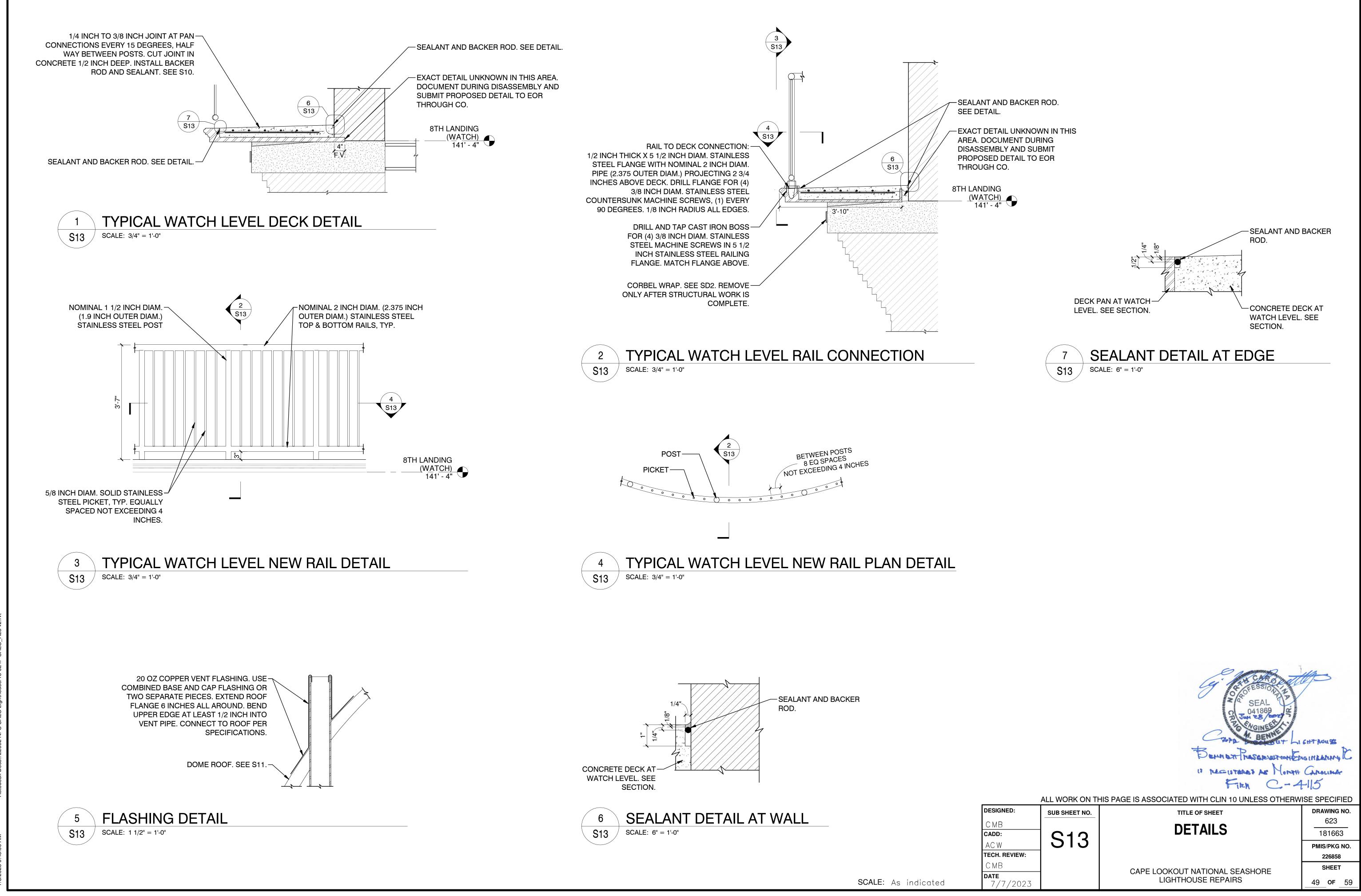
FINISHING SYSTEM SCHEDULE:

- 1. FOR NEW STEEL AND CAST IRON THAT CAN BE INSTALLED WITHOUT WELDING, CLEAN TO BRIGHT METAL, HOT DIP GALVANIZE WITHIN 2 HOURS, LIGHTLY BRUSH BLAST THE GALVANIZING, PRIME WITH TWO-PART ALIPHATIC EPOXY PRIMER, INTERMEDIATE COAT WITH HIGH BUILD EPOXY, AND OVERCOAT WITH TWO COATS OF POLYURETHANE. SEE SPECIFICATIONS.
- 2. FOR ALL NEW STEEL AND CAST IRON THAT MUST BE WELDED, HOT DIP GALVANIZE AND COAT AS ABOVE. WHERE WELDS OCCUR, CLEAN TO BRIGHT METAL FOR THE WELDING. AFTER WELDING, WITHIN 2 HOURS, COAT THE AREA THAT HAS BEEN CLEANED FOR WELDING WITH A ZINC-RICH THREE PART EPOXY PRIMER. INTERMEDIATE COAT WITH HIGH BUILD EPOXY. OVERCOAT WITH A SECOND COAT OF THE SAME. OVERCOAT THIRD AND FOURTH COATS WITH ACRYLIC POLYURETHANE. SEE SPECIFICATIONS.
- 3. FOR ALL EXISTING CAST IRON OR STEEL THAT IS CURRENTLY PAINTED, CLEAN DOWN TO BRIGHT METAL AND, WITHIN 2 HOURS, COAT WITH A ZINC-RICH THREE PART EPOXY PRIMER. INTERMEDIATE COAT WITH HIGH BUILD EPOXY. OVERCOAT THIRD AND FOURTH COATS WITH ACRYLIC POLYURETHANE. SEE SPECIFICATIONS.
- 4. AT ALL EXTERIOR SURFACES OF THE LIGHTHOUSE, AT ALL EDGES OF ALL PLATES WHERE THE PLATES JOIN ANOTHER PLATE, CLEAN DOWN TO BRIGHT METAL AND, WITHIN 2 HOURS, COAT WITH A ZINC RICH THREE PART EPOXY PRIMER. SEAL ALL JOINTS WITH A SILICONE SEALANT. INTERMEDIATE COAT WITH HIGH BUILD EPOXY. APPLY THIRD AND FOURTH COATS OF ACRYLIC POLYURETHANE. SEE SPECIFICATIONS.
- 5. FOR NEW STAINLESS STEEL, PRIME ANTI-CORROSIVE EPOXY PRIMER. INTERMEDIATE COAT WITH HIGH BUILD EPOXY. OVERCOAT WITH TWO FINISH COATS OF POLYURETHANE. SEE SPECIFICATIONS.
- 6. UNLESS NOTED OTHERWISE, MATCH NEW PAINT COLOR TO EXISTING PAINT COLOR.

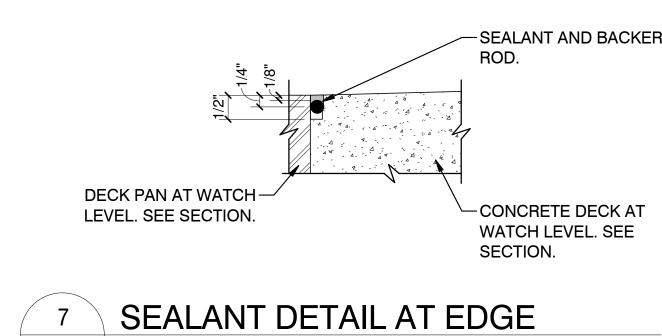
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DR AND HING OAT PER		BENNER PRESERVERTIONED		
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/2023		LIGHTHOUSE REPAIRS	47OF	59



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	ELECT	RICAL SY	/STEMS			GENERAL ELECTRICAL NOTES
	SEISMIC		EMENTS			-
SEISMIC REQUIREMENTS PER IBC-2015/ASCE 7-16						BRANCH CIRCUIT WIRING FOR 20A CIRCUITS SHALL BE SIZED PER WIRE SIZING CHART. WHERE CONDUCTOR AND RACEWAY SIZE ARE SHOWN AT HOMERUN, SUCH SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT. EXCEPTION: FINAL CONNECTION TO DEVICES IN
	,	,	AND ELECTRICAL EQUIPMENT AND COMPO FORCES IN ACCORDANCE WITH CHAPTE	,	2.	OUTLET BOXES IS NOT REQUIRED TO BE LARGER THAN #12. PRIOR TO ROUGH-IN, COORDINATE THE LOCATION AND MOUNTING HEIGHT OF ALL WALL MOUNTED DEVICES. IN THE EVENT OF A CONFLICT, NOTIFY THE CONTRACTING OFFICER.
· · · · · · · · · · · · · · · · · · ·	ICLUDING ROOF CURBS, RAILS, ETERMINED IN ACCORDANCE WI	,	OSED TO WIND SHALL BE DESIGNED AND TO 29 OF ASCE 7-16.	INSTALLED TO RESIST	3.	MINOR ADJUSTMENTS IN DEVICE LOCATION, SUCH AS 5'-0" IN ANY DIRECTION, SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER. BRANCH CIRCUIT ROUTING SHALL COMPLY WITH DETAILS ON DRAWINGS AND SHALL BE
ERE DESIGN FOR SEIS	MIC AND WIND LOADS IS REQUI	RED, THE MORE	DEMANDING FORCE MUST BE USED.			COORDINATED WITH THE WORK OF OTHER TRADES BEFORE AND DURING CONSTRUCTION. COORDINATE THE ROUTING OF UNDERGROUND
ERENCE THE STRUCT	URAL DRAWINGS FOR SITE SPE		ION ON SEISMIC DESIGN CATEGORY, WIN	ID SPEEDS, ETC.		CONDUCTORS/CONDUITS WITH STRUCTURAL FOOTINGS OF BUILDING. BRANCH CIRCUITS SHALL BE ROUTED OVERHEAD UNLESS PRIOR APPROVAL HAS BEEN GRANTED BY THE
THE TABLE BELOW TO	O DETERMINE SEISMIC RESTRA		ITS FOR EACH COMPONENT.		4.	CONTRACTING OFFICER. THE USE OF MC CABLE IS NOT ALLOWED, UNLESS NOTED OTHERWISE.
	DFESSIONAL REGISTERED IN TH		T SUPPORTS AND ATTACHMENTS SHALL I B IS LOCATED. SUBMITTALS MUST INCLUE		5. 6.	PROVIDE A LISTED EXPANSION/DEFLECTION FITTING FOR ALL CONDUIT CROSSING EXPANSION JOINTS PER NEC 300.4.H. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF EXPANSION JOINTS. WHEREVER THE WORD "PROVIDE" IS USED ON THE ELECTRICAL DRAWINGS, IT SHALL BE
	IGNED BY THE SEISMIC ENGINE		O FOR THE INSTALLATION OF EQUIPMENT R ANY HOUSEKEEPING PADS PRIOR TO T		7.	INFERRED TO MEAN "FURNISH AND INSTALL", UNLESS NOTED OTHERWISE. OUTLET BOXES FOR GFCI DEVICES SHALL BE DEEP BOXES (2-1/8" MINIMUM). ALL OTHER OUTLET BOXES SHALL BE STANDARD DEPTH (1-1/2" MINIMUM), UNLESS NOTED OTHERWISE.
	R PIPING AND CONDUIT MUST BE /ING DETAILS AND CALCULATIO		OUT DRAWINGS SHOWING SPECIFIC RES	3TRAINT LOCATIONS	8.	THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIONAL ELECTRICAL CODE
	ELECTRICAL COM	PONENT IMPORT	ANCE FACTOR (Ip) DESIGNATION			REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWING: 1 - A COMMON NEUTRAL MAY BE INSTALLED IN A HOMERUN FOR 2 OR 3 BRANCH CIRCUITS ONLY IF A MEANS TO
١¢	p = 1.0		lp = 1.5			SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT OF ORIGIN IS PROVIDED PER NEC 210.4.B. 2 - MULTIPLE SINGLE-POLE BRANCH CIRCUITS (UP
SSOCIATED ELECTRIC	AL WORK UNLESS NOTED OTHE	RWISE • EMER	GENCY LIGHTS			TO 3 HOTS, 3 NEUTRALS AND 1 GROUND) RATED FOR 30A OR LESS MAY BE PULLED INTO A SINGLE RACEWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE RACEWAYS AND DE-RATING CONDUCTORS PER NEC 310.15. 3 - A GROUND CONDUCTOR
	SEISMIC	DESIGN CATEGO	RIES D,E,F		9	SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE. REFER TO THE ARCHITECTURAL DRAWINGS FOR PROJECT PHASING.
		COMPONEN	NT IMPORTANCE FACTOR (Ip)		10.	ALL ELECTRICAL EQUIPMENT, DEVICES, AND CONDUIT SHALL BE MOUNTED EXCLUSIVELY TO THE MOTAR BETWEEN BRICKS. FASTENERS & SUPPORTS SHALL NOT
	1.0		1.5		_	BE MOUNTED TO MASONRY.
COMPONENT ENTIFICATION	SEISMIC RESTRAINT REQUIREMENT	NOTES	SEISMIC RESTRAINT REQUIREMENT	NOTES	1.	GENERAL LIGHTNING PROTECTION NOTES EXISTING LIGHTNING PROTECTION SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AS MUCH AS POSSIBLE. KEEP THE EXISTING LIGHTNING PROTECTION DURRING THE
OOR MOUNTED	RESTRAIN ALL	1,2	RESTRAIN ALL		-	MODIFICATION AND DECONSTRUCTION OF THE LANTERN. AFTER LANTERN DECONSTRUCTION PROVIDE A NEW U.L. LISTED LIGHTNING PROTECTION SYSTEM.
ALL MOUNTED	RESTRAIN ALL	1,2	RESTRAIN ALL	-	-	UTILIZING EXISTING LIGHTING PROTECTION EQUIPMENT IS ALLOWED AS LONG AS THE SYSTEM IS RECERTIFIED AFTER CONSTRUCTION.
PONENT SUPPORTS	RESTRAIN ALL	1	RESTRAIN ALL	-	-	GENERAL LIGHTING NOTES
ENDED EQUIPMENT	RESTRAIN ALL	1	RESTRAIN ALL	-		
NGLE CONDUIT	RESTRAIN IF ≥ 2.5"	3	RESTRAIN IF ≥ 2.5"	3	- 1. 	EXACT LOCATIONS OF LIGHTING FIXTURES SHALL BE DETERMINED IN THE FIELD. DO NOT SUPPORT FIXTURES FROM PIPING. PROVIDE CHAIN OR TRAPEZE-TYPE HANGERS WHERE FIXTURES CANNOT BE MOUNTED DIRECTLY TO CEILING.
IENT CERTIFICATION	NOT REQUIRED	-	REQUIRED	4	2.	LIGHTING FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL PROVIDE FIXTURES WITH THE PROPER TRIM. VOLTAGE
ONNECTIONS ARE PRO ESTRAINTS ARE NOT R ISS ABOVE A FLOOR, IS	VIDED BETWEEN THE COMPON EQUIRED IF THE COMPONENT W S POSITIVELY ATTACHED TO TH	ENT AND ASSOCI VEIGHS 400 LBS. (E STRUCTURE, A	ELY ATTACHED TO THE STRUCTURE AND ATED DUCTWORK, PIPING AND CONDUIT. OR LESS, IS MOUNTED WITH THE CENTEF ND HAS FLEXIBLE CONNECTIONS BETWE	R MASS AT 4' OR	3.	AND OPTIONS NECESSARY FOR INSTALLATION. FIXTURES LISTED IN LIGHTING FIXTURE SCHEDULE ARE THE BASIS OF DESIGN, AND IF AN ALTERNATE FIXTURE IS SELECTED FOR THE PROJECT, THE EC SHALL STILL PROVIDE ALL MATERIALS AND LABOR FOR PROPER INSTALLATION OF THE ALTERNATE FIXTURE. REGARDLESS OF CATALOG NUMBER INDICATED IN SCHEDULE, PROVIDE BATTERY BACK- UP FOR ALL FIXTURES INDICATED ON THE DRAWINGS TO BE EMERGENCY TYPE. REGARDLESS OF HOW NOTED ON PLANS, ALL EMERGENCY LIGHTING FIXTURES
STRAINT IS NOT REQUNIES NOT FROM THE TOP	OF THE PIPE TO THE SUPPORTI	ORTED BY HANGE NG STRUCTURE.	ERS AND EACH HANGER IN THE RUN IS 12 WHERE PIPES ARE SUPPORTED ON A TR	RAPEZE, THE		INDICATED SHALL BE WIRED SO AS TO BE SWITCHED "ON/OFF" WITHOUT OPERATING THE EMERGENCY BATTERY BACK-UP. EMERGENCY BATTERY BACK-UP SHALL NOT BE ACTIVATED UNLESS A LOSS OF NORMAL BUILDING POWER OCCURS.
			IN. OR LESS. WHERE ROD HANGERS ARE PREVENT BENDING IN THE ROD.	USED, INEY		ALTERNATE BID PRICING NOTES
OMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ONTRACTING OFFICER.						PROVIDE PRICING FOR AN INTRUSION DETECTION SYSTEM. SECURITY CONTACTS FOR LIGHT HOUSE BOTTOM LEVEL DOORS, AND A CAMERA SYSTEM AT BOTTOM LEVEL INTERIOR OF LIGHTHOUSE DOORS. INCLUDE CARD READERS AND ELECTRIC DOOR LATCHES.
	GENERAL EXISTIN IST FOR THIS PROJECT WHICH V SUCH, CONTRACTOR SHALL VER	VERE NOT ACCES	SSIBLE OR HAD LIMITED ACCESS		2.	PROVIDE PRICING FOR PROVIDING A HORN AND STROBE FIRE ALARM SYSTEM FOR THE ENTIRETY OF THE LIGHTHOUSE. FIRE ALARM CONTROL PANEL LOCATED ON BOTTOM FLOOR WITH A SMOKE DETECTOR LOCATED ABOVE THE PANEL. PROVIDE ADEQUATE FIRE ALARM HORN AND VISUAL DEVICES RUNNING UP THE INTERIOR LIGHTHOUSE. FIRE ALARM SYSTEM TO HAVE CELLULAR CALLOUT AND ANOTHER FORM OF CALLOUT. ALL FIRE ALARM WIRING TO BE IN CONDUIT.

	ELECT	RICAL S	YSTEMS		GENERAL ELECTRICAL NO
	SEISMIC		REMENTS		
		BC-2015/AS			1. BRANCH CIRCUIT WIRING FOR 20A CIRCUITS SHALL BE SIZ WHERE CONDUCTOR AND RACEWAY SIZE ARE SHOWN AT BE USED FOR THE ENTIRE CIRCUIT. EXCEPTION: FINAL CO
			AND ELECTRICAL EQUIPMENT AND COMPONEN FORCES IN ACCORDANCE WITH CHAPTER 13 (OUTLET BOXES IS NOT REQUIRED TO BE LARGER THAN #1 PRIOR TO ROUGH-IN, COORDINATE THE LOCATION AND MOUNTED DEVICES. IN THE EVENT OF A CONFLICT, NOTIF
	CLUDING ROOF CURBS, RAILS, TERMINED IN ACCORDANCE W		OSED TO WIND SHALL BE DESIGNED AND INST. TO 29 OF ASCE 7-16.	ALLED TO RESIST	 MINOR ADJUSTMENTS IN DEVICE LOCATION, SUCH AS 5'-0' DONE AT NO ADDITIONAL COST TO THE OWNER. BRANCH CIRCUIT ROUTING SHALL COMPLY WITH DETAILS
C. WHERE DESIGN FOR SEISM	MIC AND WIND LOADS IS REQU	IRED, THE MORE	DEMANDING FORCE MUST BE USED.		COORDINATED WITH THE WORK OF OTHER TRADES BEFO CONSTRUCTION. COORDINATE THE ROUTING OF UNDERG
D. REFERENCE THE STRUCTU	JRAL DRAWINGS FOR SITE SPE	ECIFIC INFORMAT	ION ON SEISMIC DESIGN CATEGORY, WIND SPI	EEDS, ETC.	CONDUCTORS/CONDUITS WITH STRUCTURAL FOOTINGS C SHALL BE ROUTED OVERHEAD UNLESS PRIOR APPROVAL
E. USE THE TABLE BELOW TO	DETERMINE SEISMIC RESTRA		NTS FOR EACH COMPONENT.		CONTRACTING OFFICER.4. THE USE OF MC CABLE IS NOT ALLOWED, UNLESS NOTED
	FESSIONAL REGISTERED IN TH		IT SUPPORTS AND ATTACHMENTS SHALL BE DE B IS LOCATED. SUBMITTALS MUST INCLUDE ST.		 PROVIDE A LISTED EXPANSION/DEFLECTION FITTING FOR EXPANSION JOINTS PER NEC 300.4.H. SEE ARCHITECTURA OF EXPANSION JOINTS. WHEREVER THE WORD "PROVIDE" IS USED ON THE ELECT
•	GNED BY THE SEISMIC ENGINE		D FOR THE INSTALLATION OF EQUIPMENT UNDE R ANY HOUSEKEEPING PADS PRIOR TO THE RE		 INFERRED TO MEAN "FURNISH AND INSTALL", UNLESS NOT OUTLET BOXES FOR GFCI DEVICES SHALL BE DEEP BOXES OUTLET BOXES SHALL BE STANDARD DEPTH (1-1/2" MINIMI OTHERWISE.
	PIPING AND CONDUIT MUST B ING DETAILS AND CALCULATIC		OUT DRAWINGS SHOWING SPECIFIC RESTRAI	NT LOCATIONS	8. THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANC PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCOR ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIO
	ELECTRICAL COM	IPONENT IMPORT	ANCE FACTOR (Ip) DESIGNATION		REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWI MAY BE INSTALLED IN A HOMERUN FOR 2 OR 3 BRANCH CI
lp	= 1.0		lp = 1.5		SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED COND ORIGIN IS PROVIDED PER NEC 210.4.B. 2 - MULTIPLE SING
ALL ASSOCIATED ELECTRICA	AL WORK UNLESS NOTED OTHI	ERWISE • EMER	RGENCY LIGHTS		TO 3 HOTS, 3 NEUTRALS AND 1 GROUND) RATED FOR 30A (A SINGLE RACEWAY. THE CONTRACTOR SHALL BE RESPO RACEWAYS AND DE-RATING CONDUCTORS PER NEC 310.1
_	SEISMIC	DESIGN CATEGO	DRIES D,E,F		 SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED O 9. REFER TO THE ARCHITECTURAL DRAWINGS FOR PROJECT
		COMPONE	NT IMPORTANCE FACTOR (Ip)		10. ALL ELECTRICAL EQUIPMENT, DEVICES, AND CONDUIT SH EXCLUSIVELY TO THE MOTAR BETWEEN BRICKS. FASTENE
	1.0		1.5		BE MOUNTED TO MASONRY.
COMPONENT IDENTIFICATION	SEISMIC RESTRAINT REQUIREMENT	NOTES	SEISMIC RESTRAINT REQUIREMENT	NOTES	1. EXISTING LIGHTNING PROTECTION SHALL BE MAINTAINED AS MUCH AS POSSIBLE. KEEP THE EXISTING LIGHTNING PI
FLOOR MOUNTED	RESTRAIN ALL	1,2	RESTRAIN ALL	-	MODIFICATION AND DECONSTRUCTION OF THE LANTERN. DECONSTRUCTION PROVIDE A NEW U.L. LISTED LIGHTNING
WALL MOUNTED	RESTRAIN ALL	1,2	RESTRAIN ALL	-	UTILIZING EXISTING LIGHTING PROTECTION EQUIPMENT IS SYSTEM IS RECERTIFIED AFTER CONSTRUCTION.
COMPONENT SUPPORTS	RESTRAIN ALL	1	RESTRAIN ALL	-	GENERAL LIGHTING NO
SUSPENDED EQUIPMENT	RESTRAIN ALL	1	RESTRAIN ALL	-	1. EXACT LOCATIONS OF LIGHTING FIXTURES SHALL BE DETI
SINGLE CONDUIT	RESTRAIN IF ≥ 2.5"	3	RESTRAIN IF ≥ 2.5"	3	NOT SUPPORT FIXTURES FROM PIPING. PROVIDE CHAIN O WHERE FIXTURES CANNOT BE MOUNTED DIRECTLY TO CE
COMPONENT CERTIFICATION	NOT REQUIRED	-	REQUIRED	4	2. LIGHTING FIXTURE CATALOG NUMBERS ARE INDICATIVE O REQUIRED. CONTRACTOR SHALL PROVIDE FIXTURES WITH
-			ELY ATTACHED TO THE STRUCTURE AND FLEX IATED DUCTWORK, PIPING AND CONDUIT.	IBLE	AND OPTIONS NECESSARY FOR INSTALLATION. FIXTURES SCHEDULE ARE THE BASIS OF DESIGN, AND IF AN ALTERN THE PROJECT, THE EC SHALL STILL PROVIDE ALL MATERIA INSTALLATION OF THE ALTERNATE FIXTURE.
LESS ABOVE A FLOOR, IS COMPONENT AND ASSOC	POSITIVELY ATTACHED TO TH CIATED DUCTWORK, PIPING AN	IE STRUCTURE, A D CONDUIT.	OR LESS, IS MOUNTED WITH THE CENTER MAS	HE	 REGARDLESS OF CATALOG NUMBER INDICATED IN SCHED UP FOR ALL FIXTURES INDICATED ON THE DRAWINGS TO B REGARDLESS OF HOW NOTED ON PLANS, ALL EMERGENC INDICATED SHALL BE WIRED SO AS TO BE SWITCHED "ON/ THE EMERGENCY BATTERY BACK-UP. EMERGENCY BATTE
LENGTH FROM THE TOP O TRAPEZE SHALL BE SUPF	OF THE PIPE TO THE SUPPORT PORTED BY HANGERS HAVING	ING STRUCTURE. A LENGTH OF 12"	ERS AND EACH HANGER IN THE RUN IS 12" IN. (. WHERE PIPES ARE SUPPORTED ON A TRAPEZ ' IN. OR LESS. WHERE ROD HANGERS ARE USE PREVENT BENDING IN THE ROD.	ZE, THE	ACTIVATED UNLESS A LOSS OF NORMAL BUILDING POWEF ALTERNATE BID PRICING
4. COMPONENT CERTIFICAT CONTRACTING OFFICER.	TION MUST BE SUPPLIED BY TH	IE EQUIPMENT M	ANUFACTURER AT TIME OF SUBMITTAL FOR RE	EVIEW BY	1. PROVIDE PRICING FOR AN INTRUSION DETECTION SYSTEM LIGHT HOUSE BOTTOM LEVEL DOORS, AND A CAMERA SYSTEM INTERIOR OF LIGHTHOUSE DOORS. INCLUDE CARD READE LATCHES.
	GENERAL EXISTING ST FOR THIS PROJECT WHICH SUCH, CONTRACTOR SHALL VE	WERE NOT ACCE	SSIBLE OR HAD LIMITED ACCESS		 PROVIDE PRICING FOR PROVIDING A HORN AND STROBE I ENTIRETY OF THE LIGHTHOUSE. FIRE ALARM CONTROL PA FLOOR WITH A SMOKE DETECTOR LOCATED ABOVE THE F FIRE ALARM HORN AND VISUAL DEVICES RUNNING UP THE ALARM SYSTEM TO HAVE CELLULAR CALLOUT AND ANOTH FIRE ALARM WIRING TO BE IN CONDUIT.

- DURING DESIGN. AS SUCH, CONTRACTOR SHALL VERIFY ALL UTILITIES IN AREA OF WORK BEFORE DEMOLITION OF ANY SERVICE. ANY ELECTRICAL COMPONENTS NOT SHOWN SHALL BE IDENTIFIED AND THE CONTRACTING OFFICER SHALL BE NOTIFIED AS SOON AS POSSIBLE. NO ELECTRICAL REWORK SHALL BE COMMENCED WITHOUT COORDINATION OF CONTRACTING OFFICER. WHERE INFORMATION SHOWN ON THESE DRAWINGS CONFLICTS WITH VERIFIED FIELD CONDITIONS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER.
- REMOVE ALL ABANDONED CONDUIT, WIRE AND CABLES ABOVE THE CEILING IN THE CONSTRUCTION AREA. 2. PROVIDE JUNCTION BOX COVERS ON ALL EXISTING JUNCTION BOXES ABOVE THE CEILING IN THE 3. CONSTRUCTION AREA.

GENERAL DEMOLITION NOTES

1. ALL PROJECT DEMOLISHED MATERIALS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.

ELECTRICAL CODES AND STANDARDS (WITH ALL NORTH CAROLINA MODIFICATIONS)					
CODE	DESCRIPTION				
IBC (2015)	INTERNATIONAL BUILDING CODE				
IECC (2015)	INTERNATIONAL ENERGY CONSERVATION CODE				
NFPA 70 (2020)	NATIONAL ELECTRICAL CODE				

FIRE ALARM WIRING TO BE IN CONDUIT.

	LIGHTING SYMBOL LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION			
o	LIGHT FIXTURE (TYPICAL ALL DIMENSIONS)	\$	LIGHT SWITCH, SINGLE POLE			
	LIGHT FIXTURE (SHADING INDICATES EMERGENCY, TYPICAL ALL LIGHTING SYMBOLS)	\$ ^x	LIGHT SWITCH, "X" INDICATES SWITCH TYPE			
⊢ ≎ − 1	STRIP LIGHT FIXTURE	\$ ^a	LIGHT SWITCH, LOWERCASE LETTER INDICATES SWITCHLEG			
	LIGHT FIXTURE (TYPICAL ALL DIMENSIONS)		LIGHTING CONTROL SCHEME CALLOUT (SEE SCHEDULE)			
	POWER AND TELECOMMUNICATIONS SYMBOL LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION			
φ×	GFCI SIMPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE	T	THERMOSTAT (WALL MOUNTED, ROUGH-IN ONLY)			
¶ ×	GFCI DUPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE	H	HUMIDISTAT (WALL MOUNTED, ROUGH-IN ONLY)			
Фx	JUNCTION BOX (WALL MOUNTED) "X" INDICATES JUNCTION BOX TYPE	SPD	SURGE PROTECTION DEVICE			
\$ ^x	CONTROL SWITCH, "X" INDICATES SWITCH TYPE		DISCONNECT SWITCH (FUSIBLE OR NON- FUSIBLE)			
\ge	MOTOR CONNECTION (AS NOTED)		PANELBOARD - BRANCH, SURFACE MOUNTED			
	PANELBOARD - DISTRIBUTION, SURFACE MOUNTED					

	LIGHTING SYMBOL LEGEND						
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION				
_	LIGHT FIXTURE (TYPICAL ALL DIMENSIONS)	\$	LIGHT SWITCH, SINGLE POLE				
	LIGHT FIXTURE (SHADING INDICATES EMERGENCY, TYPICAL ALL LIGHTING SYMBOLS)	\$ ^x	LIGHT SWITCH, "X" INDICATES SWITCH TYPE				
- 	STRIP LIGHT FIXTURE	\$ ^a	LIGHT SWITCH, LOWERCASE LETTER INDICATES SWITCHLEG				
	LIGHT FIXTURE (TYPICAL ALL DIMENSIONS)		LIGHTING CONTROL SCHEME CALLOUT (SEE SCHEDULE)				
	POWER AND TELECOMMUNICATIONS SYMBOL LEGEND						
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION				
Ф ×	GFCI SIMPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE	T	THERMOSTAT (WALL MOUNTED, ROUGH-IN ONLY)				
¶ ×	GFCI DUPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE	Э	HUMIDISTAT (WALL MOUNTED, ROUGH-IN ONLY)				
Фx	JUNCTION BOX (WALL MOUNTED) "X" INDICATES JUNCTION BOX TYPE	SPD	SURGE PROTECTION DEVICE				
\$×	CONTROL SWITCH, "X" INDICATES SWITCH TYPE		DISCONNECT SWITCH (FUSIBLE OR NON- FUSIBLE)				
/M/	MOTOR CONNECTION (AS NOTED)		PANELBOARD - BRANCH, SURFACE MOUNTED				
	PANELBOARD - DISTRIBUTION, SURFACE MOUNTED						

ELEC	FRICAL ABBREVIATIONS
ABBR	DESCRIPTION
(E)	EXISTING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFG	BELOW FINISHED GRADE
BOD	BOTTOM OF DEVICE
EF	EXHAUST FAN
FDS	FUSED DISCONNECT SWITCH
GFCI	GROUND-FAULT CIRCUIT-INTERRUPTING
GFI	GROUND-FAULT INTERRUPTING
GP	GENERAL PURPOSE
J-BOX	JUNCTION BOX
KW	KILOWATTS
NEC	NATIONAL ELECTRICAL CODE
NFDS	NON-FUSED DISCONNECT SWITCH
OC	ON CENTER
SPD	SURGE PROTECTION DEVICE
UNO	UNLESS NOTED OTHERWISE
W/	WITH
WP	WEATHERPROOF
RECEPTACLE	DESCRIPTION
WP	WEATHERPROOF

WEATHERPROOF

WIRE SIZING CHART **20 AMP BRANCH CIRCUITS**

DISTANCE, 120V	MINIMUM WIRE SIZE
0 - 90 FEET	#12 AWG
90 - 230 FEET	#10 AWG
230 - 446 FEET	#8 AWG



DWG, INC. CONSULTING

ENGINEERS

DESIGNED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
WDB Cadd:	□ 1	ELECTRICAL NOTES AND	623 181663
WDB		IFGENDS	PMIS/PKG NO.
TECH. REVIEW:		ELGENDS	226858
MHS		CAPE LOOKOUT NATIONAL SEASHORE	SHEET
DATE: 7/7/2023		LIGHTHOUSE REPAIRS	OF

	FD	XTURE SPECIFICATIONS			LAMPING	i	ELEC	FRICAL	
				LAMP	TOTAL	COLOR	LOAD		
YPE	FIXTURE DESCRIPTION	MANUFACTURER	CAT. #	TYPE	LUMENS	TEMP.	(VA)	VOLTS	FIXTURE MOUNTING
J1	4' BLACK LED STRIP	ILLUMINA	BS100LED 4 HT VLO WT40 120/277 BLK	LED	4000	4000 K	30	120 V	SURFACE
J1E	4' BLACK LED STRIP W/ BATTERY BACKUP	ILLUMINA	BS100LED 4 SA VLO WT40 120/277 BLK	LED	4000	4000 K	30	120 V	SURFACE
J2E	2' BLACK LED STRIP W/ BATTERY BACKUP	ILLUMINA	BS100LED 2 SA LO WT40 120/277 BLK	LED	3000	4000 K	30	120 V	SURFACE

FIXTURES SHALL BE BLACK 1

2. FIXTURES SHALL BE IP66 RATED FOR WET AND DAMP LOCATIONS.

EQUIPMENT CONNECTION SCHEDULE

UNIT I.D.	VOLTS	# OF POLES	LOAD (VA)	BRANCH CIRCUIT WIRING	DISCONNECT / STARTER	NOTES
EXHAUST F	ANS					
EF-1	120 V	1	37	2 # 12 & 1 # 12 G IN 3/4" CONDUIT	THERMOSTAT AND CONTACTOR CONTROLLED GFCI SIMPLEX RECEPTACLE	CLIN 12
EF-2	120 V	1	37	2 # 12 & 1 # 12 G IN 3/4" CONDUIT	THERMOSTAT AND CONTACTOR CONTROLLED GFCI SIMPLEX RECEPTACLE	CLIN 12
EF-3	120 V	1	37	2 # 12 & 1 # 12 G IN 3/4" CONDUIT	THERMOSTAT AND CONTACTOR CONTROLLED GFCI SIMPLEX RECEPTACLE	CLIN 12
EF-4	120 V	1	37	2 # 12 & 1 # 12 G IN 3/4" CONDUIT	THERMOSTAT AND CONTACTOR CONTROLLED GFCI SIMPLEX RECEPTACLE	CLIN 12
EF-5	120 V	1	37	2 # 12 & 1 # 12 G IN 3/4" CONDUIT	THERMOSTAT AND CONTACTOR CONTROLLED GFCI SIMPLEX RECEPTACLE	CLIN 12
EF-6	120 V	1	264	2 # 12 & 1 # 12 G IN 3/4" CONDUIT	DISCONNECT PROVIDED WITH UNIT	CLIN 12

ELECTRICAL LOAD SUMMARY:

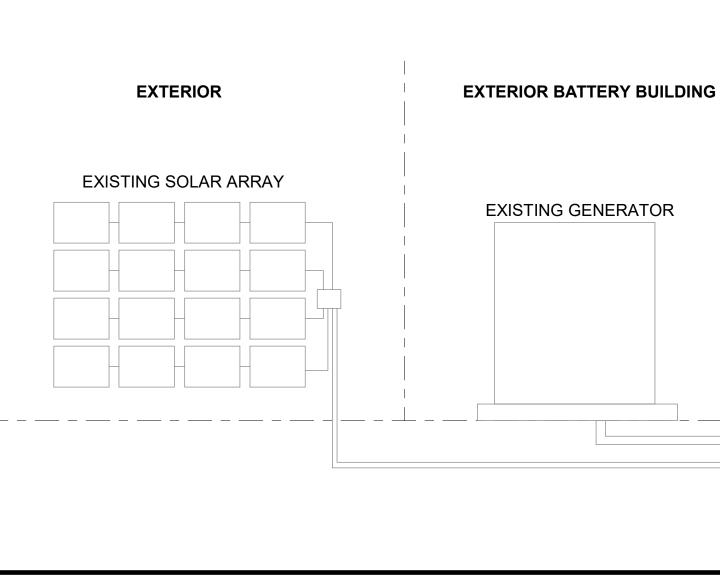
NEW LOAD ADDED TO THE LIGHTHOUSE: NEW LIGHTING: 810VA NEW FANS: 222+264VA

REMOVED LOAD DURRING DEMOLITION DEMOLISHED LIGHTING: ~200VA

NET CHANGE IN LOAD 1096VA OR LESS THAN 10 AMPS AT 120V OR LESS THAN 5 AMPS ON THE 240V FEEDER TO THE LIGHTHOUSE.

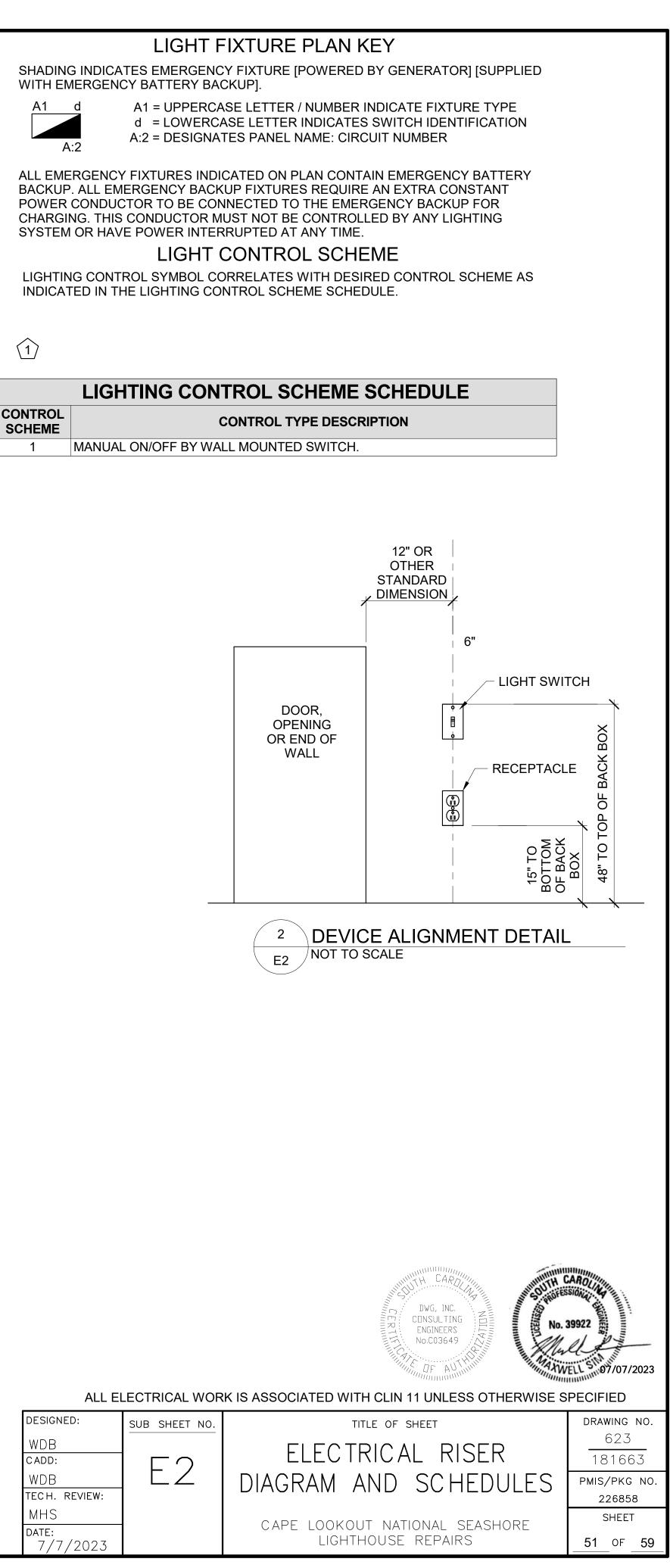
ELECTRICAL SERVICE GENERAL NOTES:

. ELECTRICAL DISTRIBUTION SYSTEM IS EXISTING TO REMAIN. RISER DIAGRAM SHOWN FOR REFERENCE ONLY. NO NEW WORK TO ELECTRICAL DISTRIBUTION. SCOPE OF WORK ONLY COVERS BRANCH CIRCUITS.

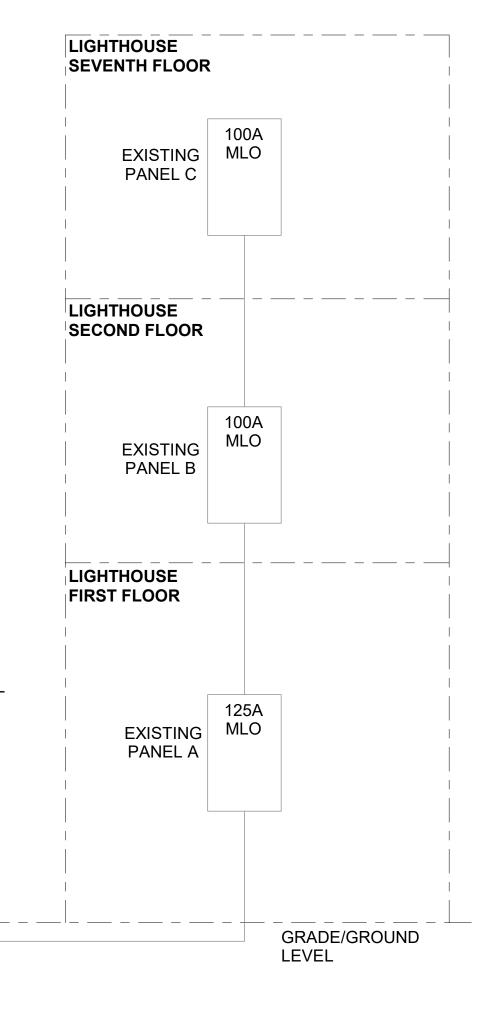


EXISTING BATTERIES

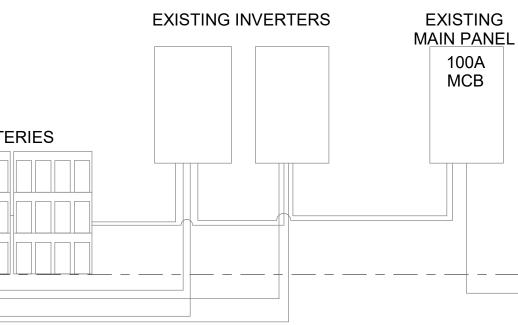


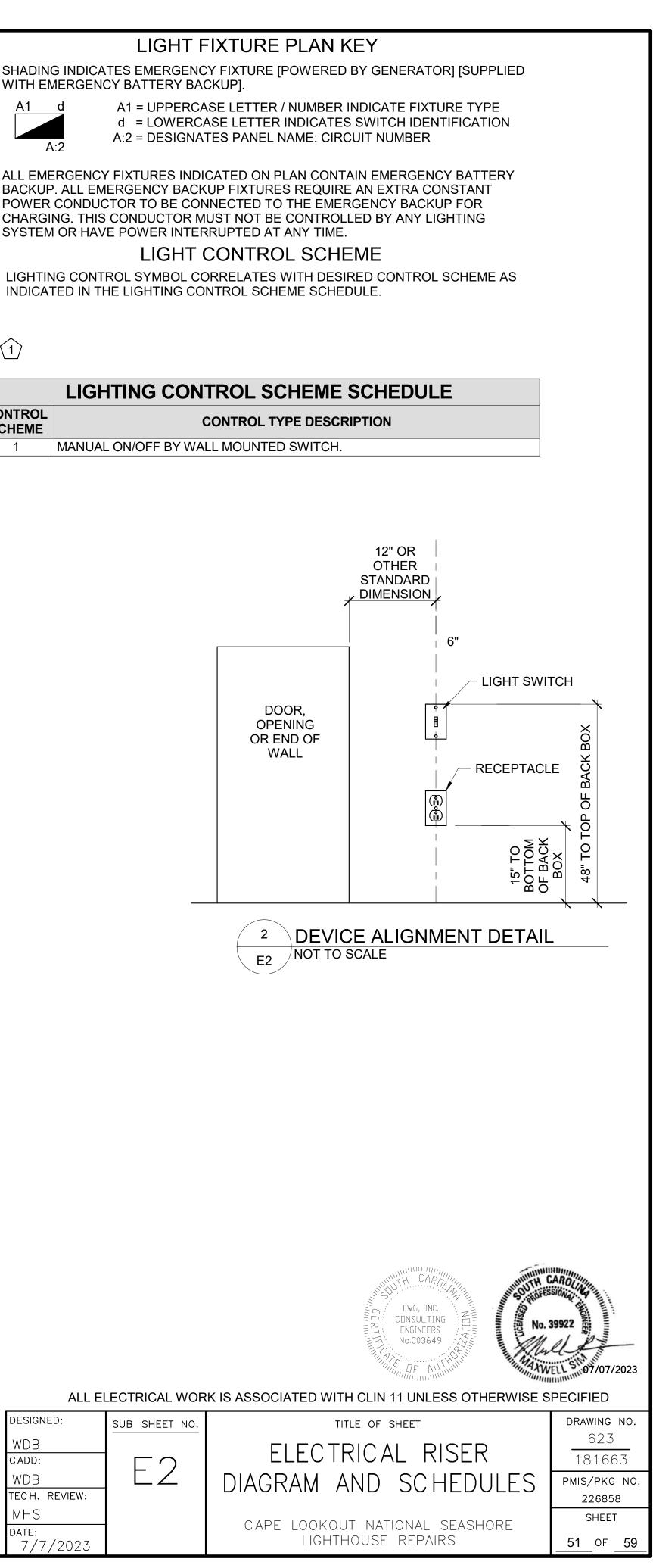


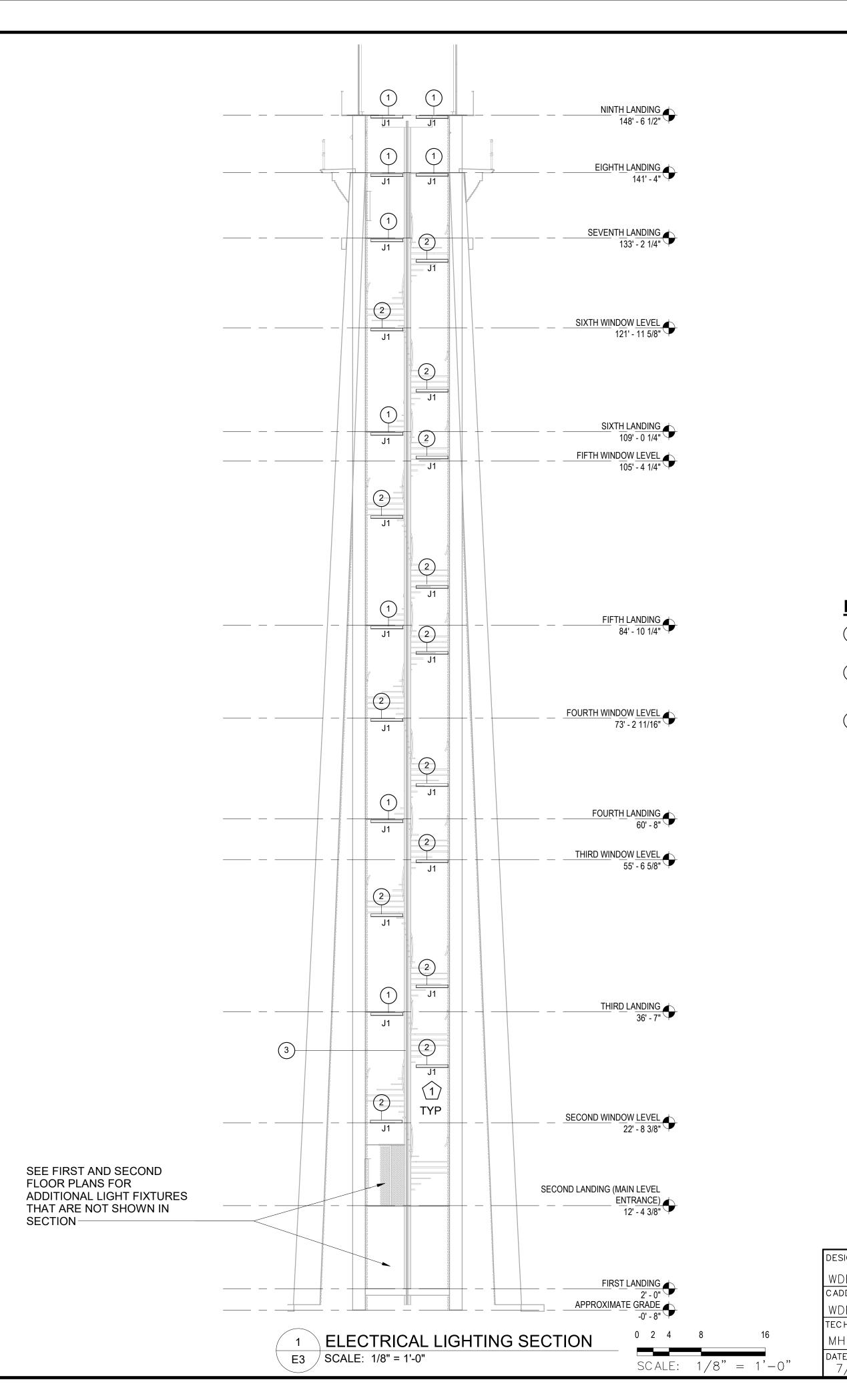
CONTROL



BATTERY BUILDING







WDI CAD WDI TECH MH date

GENERAL NOTES:

- 1. EXISTING INTERIOR LIGHT FIXTURES, BRANCH CIRCUIT AND LIGHTING CONDUIT SHALL BE
- DEMOLISHED AND REPLACED IN FULL.
- 2. NEW CONDUIT SHALL BE ROUTED VERTICALLY AND EFFICIENTALY ALONG INTERIOR MASONRY.
- NEW CONDUIT SHALL BE PVC. HARDWARE SHALL BE 3. STAINLESS STEEL.

KEY NOTES:

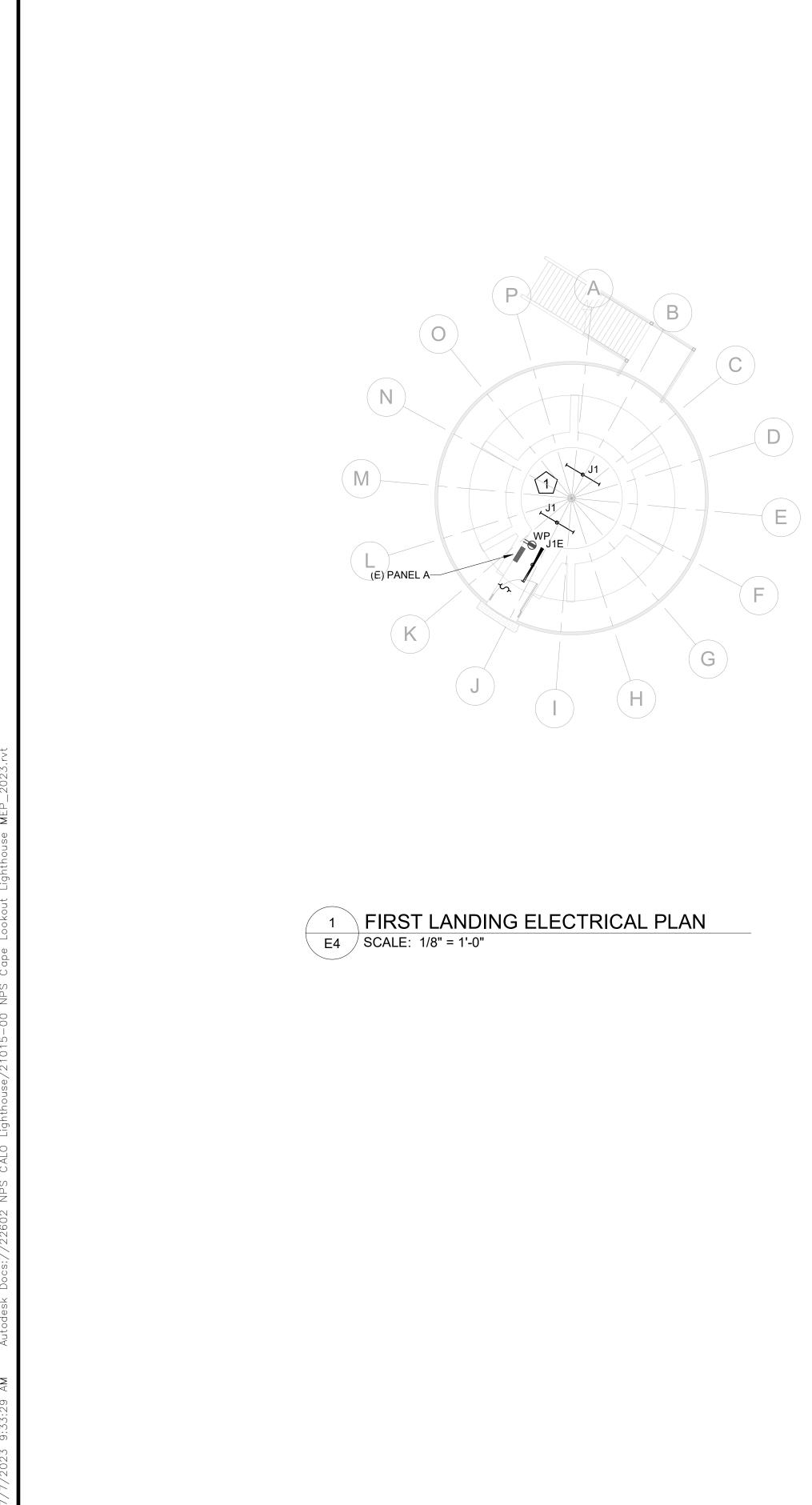
- 1 LIGHT FIXTURE MOUNTED TO UNDERSIDE OF LANDING.
- 2 LIGHT FIXTURE MOUNTED TO UNDERSIDE OF STAIR FOR EVERY HALF ROTATION OF THE SPIRAL STAIR.
- 3 SCOPE OF WORK IS ONLY IN STAIRWELL AREA. CENTER COLUMN CABLES TO THE BEACON ARE NOT IN SCOPE AND SHALL BE EXISTING TO REMAIN.

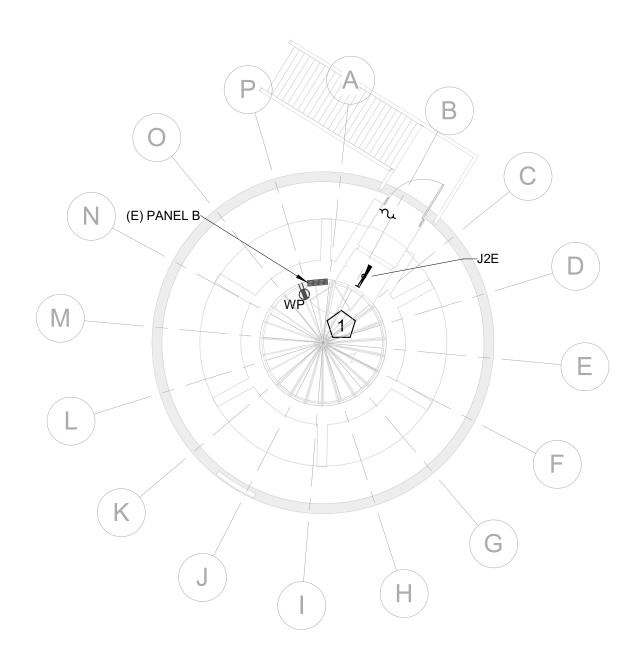




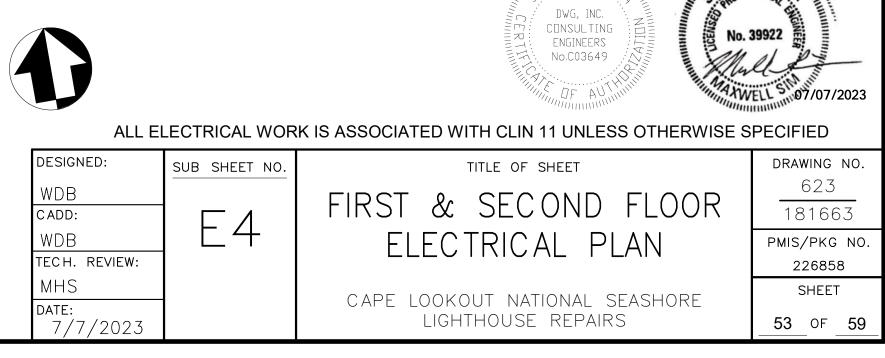
ALL ELECTRICAL WORK IS ASSOCIATED WITH CLIN 11 UNLESS OTHERWISE SPECIFIED

SIGNED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
DB dd:		ELECTRICAL LIGHTING	623 181663
DB		SECTION	PMIS/PKG NO.
CH. REVIEW:			226858
HS		CAPE LOOKOUT NATIONAL SEASHORE	SHEET
re: 7/7/2023		LIGHTHOUSE REPAIRS	OF59



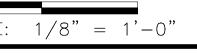








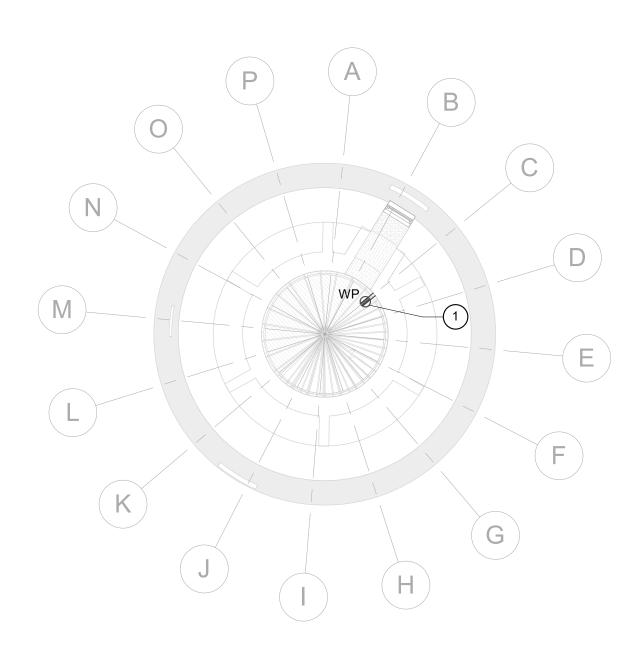
0 2 4 8 16 SCALE: 1/8" = 1



GENERAL NOTES:

- EXISTING BRANCH CIRCUIT AND LIGHTING CONDUIT SHALL BE DEMOLISHED AND REPLACED IN FULL. 1.

- NEW CONDUIT SHALL BE ROUTED VERTICALLY AND EFFICIENTALY ALONG INTERIOR MASONRY.
 NEW CONDUIT SHALL BE PVC. HARDWARE SHALL BE STAINLESS STEEL.

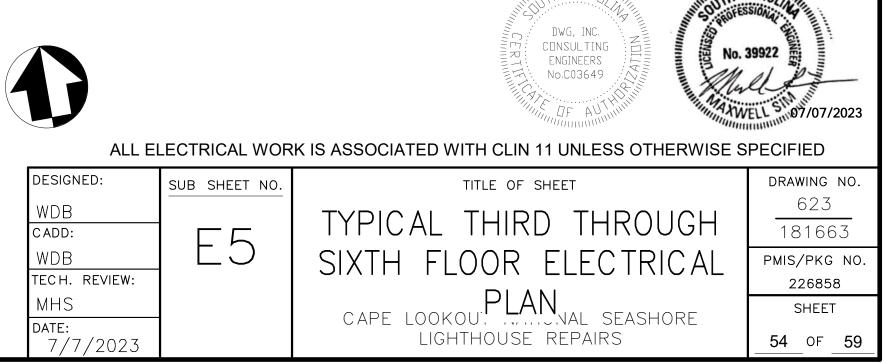


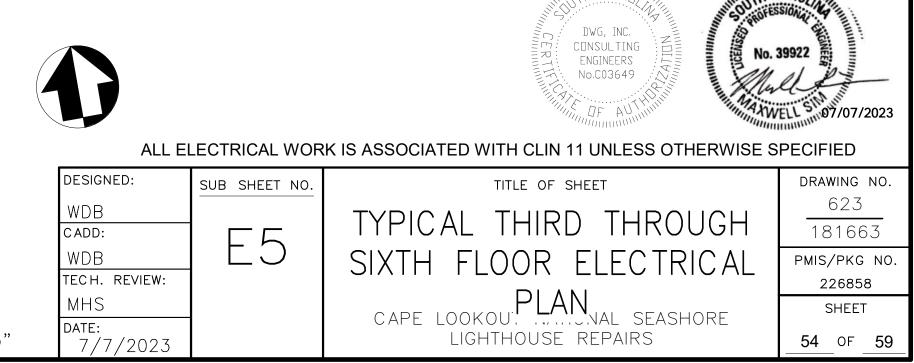


0 2 4 8

SCALE: 1/8" = 1

16



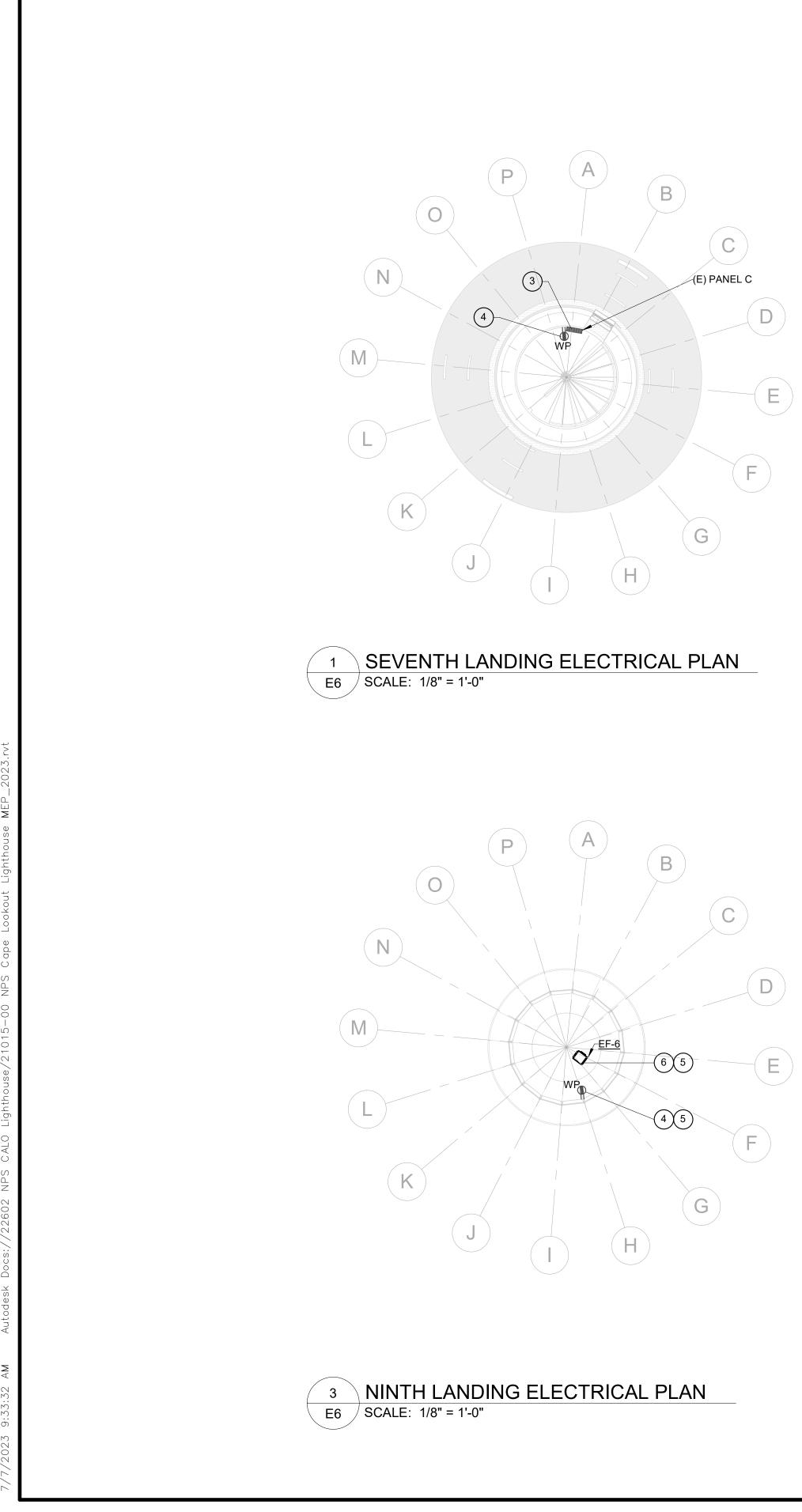


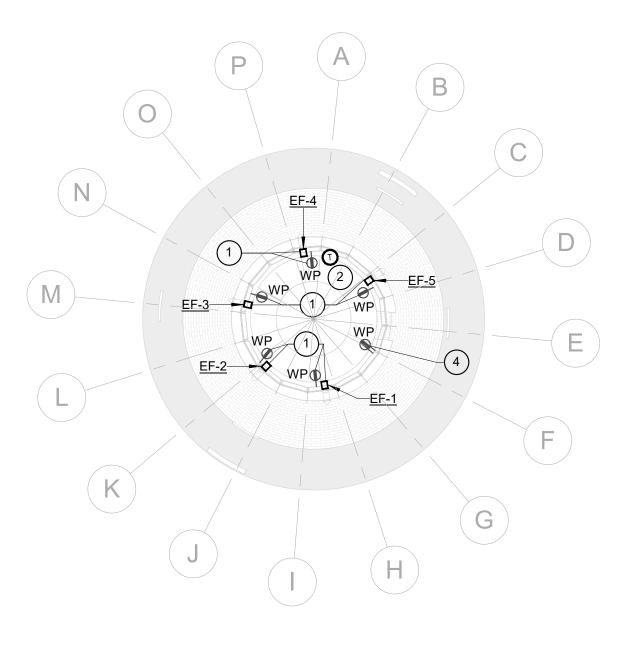
GENERAL NOTES:

- EXISTING BRANCH CIRCUIT AND LIGHTING CONDUIT
- SHALL BE DEMOLISHED AND REPLACED IN FULL. NEW CONDUIT SHALL BE ROUTED VERTICALLY AND 2. EFFICIENTALY ALONG INTERIOR MASONRY.
- CONVENIENCE RECEPTACLES SHALL BE MOUNTED TO UNDERSIDE OF STAIR STRUCTURE, ACCESSIBLE 3. OVERHEAD.
- NEW CONDUIT SHALL BE PVC. HARDWARE SHALL BE 4.
- STAINLESS STEEL. SEE ELECTRICAL SECTION THROUGH LIGHTHOUSE 5. FOR LIGHT FIXTURE LOCATIONS ON THESE FLOORS.

KEY NOTES:

(1) WIRE TO CIRCUIT PREVSIOUSLY SERVING GENERAL RECEPTACLES PRIOR TO DEMOLITION





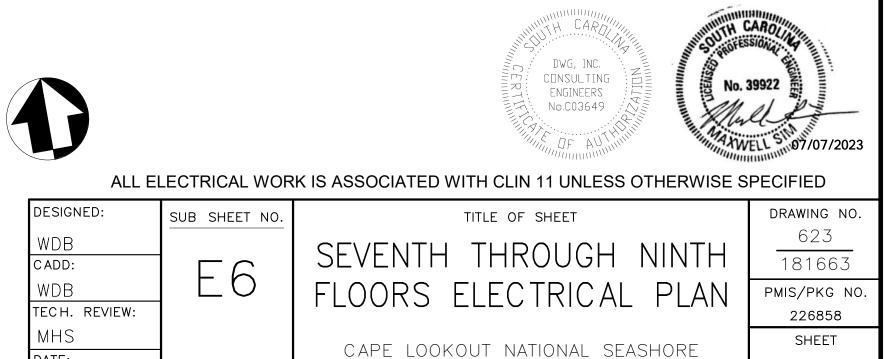


KEY NOTES:

- (1)GFCI SIMPLEX RECEPTACLE WITH WEATHERPROOF WHILE IN USE COVER FOR EXHAUST FAN. LOCATE AT SAME HEIGHT AS PORT OPENING THAT THE EXHAUST FAN IS LOCATED IN. LOCATE RECEPTACLE 6" HORIZONTALLY FROM THE PORT OPENING RECEPTACLE CIRCUIT TO BE CONTROLLED VIA LINE VOLTAGE THERMOSTAT. CLIN 12.
- (2) PROVIDE A LINE VOLTAGE THERMOSTAT TO CONTROL THE SIMPLEX RECEPTACLES SERVING THE EXHAUST FANS. CLIN 12.
- 3 PROVIDE NEW 20A-1P SQUARE D QO CIRCUIT BREAKER FOR EXISTING LOAD CENTER. UTILIZE NEW BREAKER FOR EXHAUST FAN CIRCUITS.
- (4) WIRE TO CIRCUIT PREVSIOUSLY SERVING GENERAL RECEPTACLES PRIOR TO DEMOLITION.
- 5 CONDUIT AND CABLING LOCATED AT OR ABOVE THE NINTH LANDING SHALL BE RUN IN A CLEAN LINE, FOLLOWING THE MULLIONS TO CONCEAL THE CONDUIT AS MUCH AS POSSIBLE. CONDUIT TO BE PAINTED TO MATCH THE MULLION.
- (6) PROVIDE FINAL CONNECTION TO EXAHUST FAN. WIRE TO LINE VOLTAGE THERMOSTAT CONTROLLED CIRCUIT SERVING ALL THE EXHAUST FANS.

0 2 4 8

SCALE: 1/8" = 1'



LIGHTHOUSE REPAIRS

55 OF 59

DESIGNED:
WDB
CADD:
WDB
TECH. REVIEW:
MHS
DATE:
7/7/2023

16

-0'

GENERAL NOTES:

- EXISTING BRANCH CIRCUIT AND LIGHTING CONDUIT 1
- SHALL BE DEMOLISHED AND REPLACED IN FULL.
- NEW CONDUIT SHALL BE ROUTED VERTICALLY AND 2.
- EFFICIENTALY ALONG INTERIOR MASONRY. 3. CONVENIENCE RECEPTACLES SHALL BE MOUNTED TO UNDERSIDE OF STAIR STRUCTURE, ACCESSIBLE
- OVERHEAD. 4. NEW CONDUIT SHALL BE PVC. HARDWARE SHALL BE
- STAINLESS STEEL. 5. SEE ELECTRICAL SECTION THROUGH LIGHTHOUSE
- FOR LIGHT FIXTURE LOCATIONS ON THESE FLOORS.

MECHANICAL SYSTEMS SEISMIC AND WIND REQUIREMENTS

PER IBC-2015/ASCE 7-16

- PER THE 2015 INTERNATIONAL BUILDING CODE, MECHANICAL, PLUMBING AND ELECTRICAL EQUIPME Α. THEIR SUPPORTS AND ATTACHMENTS. SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE
- EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST B. THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTER 26 TO 29 OF ASCE 7-16.
- C. WHERE DESIGN FOR SEISMIC AND WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.
- D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.
- F USE THE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.
- F. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL REGISTERED IN THE STATE THE JOB IS LOCATED. SUBMITTALS MUST INCLUDE STAMPED AND SIGNED DRAWINGS AND CALCULATIONS.
- G. 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 RECEIPT OF THE APPROVED SEISMIC SUBMITTAL

Η. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAYS AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS

		MECHANICAL COMPONENT IMPORT		R (lp) DESIGNATION		
		lp = 1.0	lp = 1.5			
• ALL HV	AC COMPONENTS	EXCEPT AS NOTED IN Ip=1.5				
		SI	EISMIC DESIG	N CATEGORIES D,E,F		
		COM	PONENT IMPO	RTANCE FACTOR (Ip)		
		1.0		1.5		
COMPONENT I	DENTIFICATION	SEISMIC RESTRAINT REQUIREMENT	NOTES	SEISMIC RESTRAINT REQUIREMENT	NOTES	
ROOF M	IOUNTED	RESTRAIN ALL	1	RESTRAIN ALL	-	
FLOOR MOUNTED		RESTRAIN ALL	1, 2	RESTRAIN ALL	-	
WALL MOUNTED		RESTRAIN ALL	1, 2	RESTRAIN ALL	-	
COMPONEN	T SUPPORTS	RESTRAIN ALL	1	RESTRAIN ALL	-	
SUSPENDED	INLINE W/ DUCT	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN.	3	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN.	3	
EQUIPMENT	NOT INLINE W/ DUCT/PIPE	RESTRAIN ALL	1	RESTRAIN ALL	-	
-	DUCTILE PIPING IM, COPPER, ETC.)	>3"	4	>1"	4	
	N DUCTILE PIPING ASTIC, CERAMIC)	RESTRAIN ALL	4	RESTRAIN ALL	4	
SUSPENDED PIPE ON TRAPEZE		RESTRAIN IF ANY PIPE ON TRAPEZE > 3" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE >	4	RESTRAIN IF ANY PIPE ON TRAPEZE > 1" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10	4	
DUCT	WORK	6 SQ.FT. AND LARGER AND >17 LBS/FT	4,5	6 SQ.FT. AND LARGER AND > 17 LBS/FT	4,5	
MULTIPLE DUC	TS ON TRAPEZE	RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT	4,5	RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT	4,3	
COMPONENT	CERTIFICATION	NOT REQUIRED	-	REQUIRED	6	

NOTES:

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 DUCTWORK, PIPING, AND CONDUIT.

2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER OF MASS LOCATED 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 CONDUIT.

FLEXIBLE CONNECTIONS REQUIRED FOR PIPE CONNECTIONS ONLY.

RESTRAINT IS NOT REQUIRED IF THE PIPING / DUCTWORK 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 GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED.

6. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY CONTRACTING OFFICER.

GENERAL HVAC NOTES

ENT AND COMPONENTS, INCLUDING	
WITH CHAPTER 13 OF ASCE 7-16.	

THE DRAWINGS SHOW THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE MECHANICAL INSTALLATION W/ THE STRUCTURE AND OTHER TRADES AND SHALL PROVIDE ADDITIONAL OFFSETS AND FITTINGS AS NECESSARY. THE VENTILATING AND AIR CONDITIONING SYSTEMS SHALL COMPLY WITH THE CODES LISTED ON THIS SHEET AS WELL AS ALL LOCAL CODE OFFICIAL REQUIREMENTS. IN THE EVENT 2 OF A CONFLICT BETWEEN CODES, THE MOST STRINGENT SHALL ALWAYS GOVERN.

THE CONTRACTOR SHALL CHECK AND VERIFY ALL CLEARANCES PRIOR TO FABRICATION OR INSTALLATION OF EQUIPMENT AND SYSTEMS. WHERE CONDITIONS REQUIRE A CHANGE IN EQUIPMENT OR SYSTEM LOCATION, NOTIFY THE CONTRACTING OFFICER FOR AN ACCEPTABLE ALTERNATIVE METHOD. AVOID CONFLICTS WITH LIGHT FIXTURES, AND OTHER CEILING MTD. DEVICES. LOCATE ALL MECHANICAL EQUIPMENT SO THAT COMPONENTS REQUIRING ACCESS (SERVICE AND MAINTENANCE) ARE FULLY ACCESSIBLE. INSTALL ALL DUCT MOUNTED DEVICES (DAMPERS, ACCESS DOORS, ETC.) IN EASILY ACCESSIBLE LOCATIONS. ADVISE THE CONTRACTING OFFICER IN ADVANCE OF INSTALLATION IF

ACCESS WILL BE HINDERED SO AN ALTERNATE LOCATION CAN BE SELECTED. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH PRESCRIBED CLEARANCES FOR SERVICE AND 5 MAINTENANCE. THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER IF RECOMMENDED CLEARANCES ARE NOT POSSIBLE BEFORE INSTALLING EQUIPMENT. SEISMIC PROTECTION OF EQUIPMENT, AND UTILITIES SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 16 OF THE INTERNATIONAL BUILDING CODE, 2015 EDITION. ALL SEISMIC 6 RESTRAINT AND BRACING SHALL BE SUBSTANTIATED BY MANUFACTURER'S SUBMITTALS PER THE SPECIFICATIONS. FOR ADDITIONAL INFORMATION, SEE 'MECHANICAL SYSTEMS SEISMIC AND WIND REQUIREMENTS' ON THIS SHEET. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF SEISMIC BRACING DEVICES WITH THE OWNER'S SEISMIC SPECIAL INSPECTOR. PROVIDE A MINIMUM OF SEVEN DAYS ADVANCE NOTICE OF INSTALLATION.

7. BALANCE ALL AIR DISTRIBUTION DEVICES, EXHAUST FANS, AND OUTSIDE AIR QUANTITIES AS SCHEDULED OR SHOWN ON THE DRAWINGS. PROVIDE FINAL TEST AND BALANCE REPORT ALONG W/ SCHEMATIC DRAWINGS SHOWING EQUIPMENT LOCATION W/ DESIGN AND ACTUAL CFM. THE TAGS ON THE DRAWINGS SHALL CORRESPOND TO THE TAGS ON THE REPORT. THIS REPORT SHALL BE SUBMITTED BEFORE THE FINAL INSPECTION IS PERFORMED. SEE SPECIFICATIONS FOR FURTHER INFORMATION. ALL CONTROL WIRING AND CONTROLS ACCESSORIES NECESSARY TO IMPLEMENT THE OUTLINED SEQUENCES OF OPERATION SHALL BE PROVIDED BY THE MECHANICAL 8 CONTRACTOR. CONDUIT SHALL BE PROVIDED BY ELECTRICAL, COORDINATED BY THE CONTRACTOR(S). WIND LOAD PROTECTION OF ROOF MOUNTED EQUIPMENT AND DUCTWORK SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 16 OF THE INTERNATIONAL BUILDING CODE, 2015 EDITION. ALL WIND LOAD RESTRAINT AND BRACING SHALL BE SUBSTANTIATED BY MANUFACTURER'S SUBMITTALS PER THE SPECIFICATIONS.

ALL EXPOSED DUCTWORK SHALL BE PAINTED. COORDINATE W/ ARCHITECTURAL PLANS/SPECIFICATIONS FOR EXPOSED LOCATIONS AND PAINTING REQUIREMENTS. SEE ARCHITECTURAL DOCUMENTS FOR ROOF PENETRATION AND FLASHING REQUIREMENTS. 11. 12. WHERE "APPROXIMATELY" IS USED TO DEFINE INSTALLATION LOCATIONS. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO VERIFY THERE ARE NO CONFLICTS PRIOR TO INSTALLATION AT DIMENSION LISTED.

MECH	MECHANICAL ABBREVIATIONS						
ABBR	DESCRIPTION						
(E)	EXISTING						
BOD	BASIS OF DESIGN						
CFM	CUBIC FEET PER MINUTE						
DB	DECIBELS						
EA	EXHAUST AIR						
EC	ELECTRICAL CONTRACTOR						
EF	EXHAUST FAN						
ESP	EXTERNAL STATIC PRESSURE						
FT	FEET						
IN	INCHES						
MC	MECHANICAL CONTRACTOR						
PD	PRESSURE DROP						
TYP	TYPICAL						
UNO	UNLESS NOTED OTHERWISE						
VNT	VENT						
W/	WITH						
WMS	WIRE MESH SCREEN						
°F	DEGREES FAHRENHEIT						

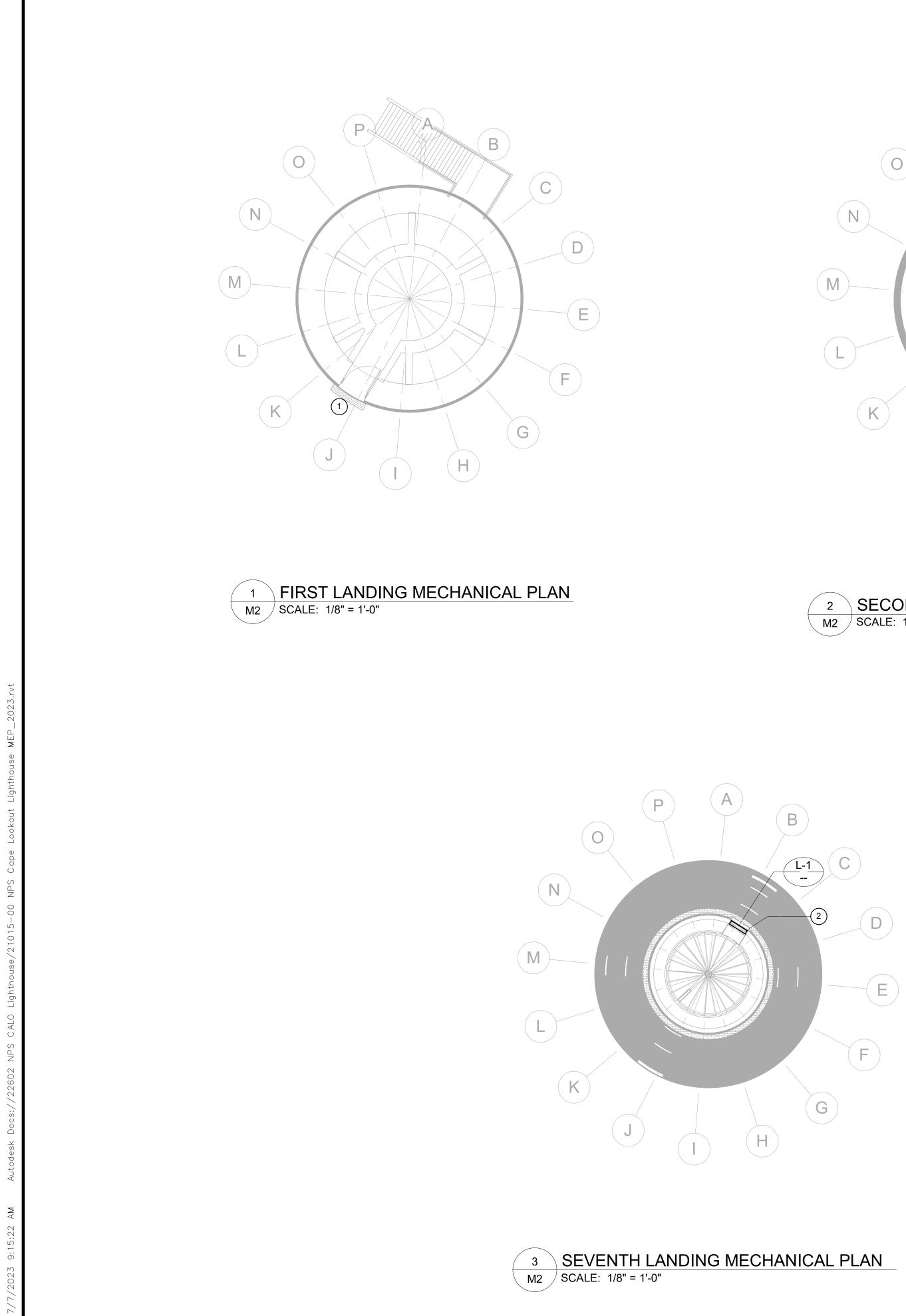
	HVAC SYMBOL LEGEND								
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION						
$\begin{array}{ c }\hline X \\ \hline Y \end{array}$	AIR TERMINAL TAG, X=TYPE MARK, Y=CFM	T	THERMOSTAT						
	LOUVER		EQUIPMENT CLEARANCE						

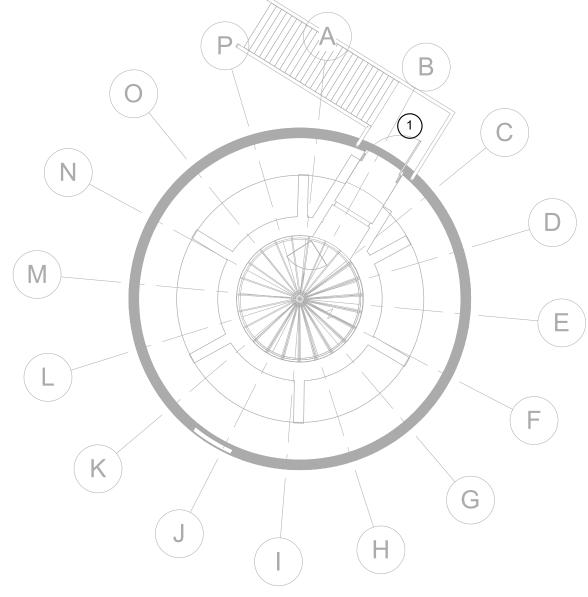


MECHANICAL CODES AND STANDARDS						
(WITH ALL NORTH CAROLINA						
MODIFICATIONS)						
CODE	ΝΕΩΩΙΟΤΙΩΝ					

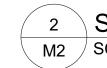
CODE	DESCRIPTION
IBC (2015)	INTERNATIONAL BUILDING CODE
IECC (2015)	INTERNATIONAL ENERGY CONSERVATION CODE
IMC (2015)	INTERNATIONAL MECHANICAL CODE
NFPA 90A (2018)	STANDARD FOR THE INSTALLATION AIR-CONDITIONING & VENTILATING SYSTEMS
SMACNA (2005)	HVAC DUCT CONSTRUCTION STANDARDS MANUAL, THIRD EDITION

	ALL MECHANICAI	L WORK IS ASSOCIATED WITH CLIN 12 UNLESS OTHERV	VISE SPECIFIED
DESIGNED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
FMS			623
CADD:		HVAC NOTES & LEGENDS	181663
WDB	M1		PMIS/PKG NO.
TECH. REVIEW:			226858
WDB			SHEET
date: 7/7/2023		CAPE LOOKOUT NATIONAL SEASHORE LIGHTHOUSE REPAIRS	0F59

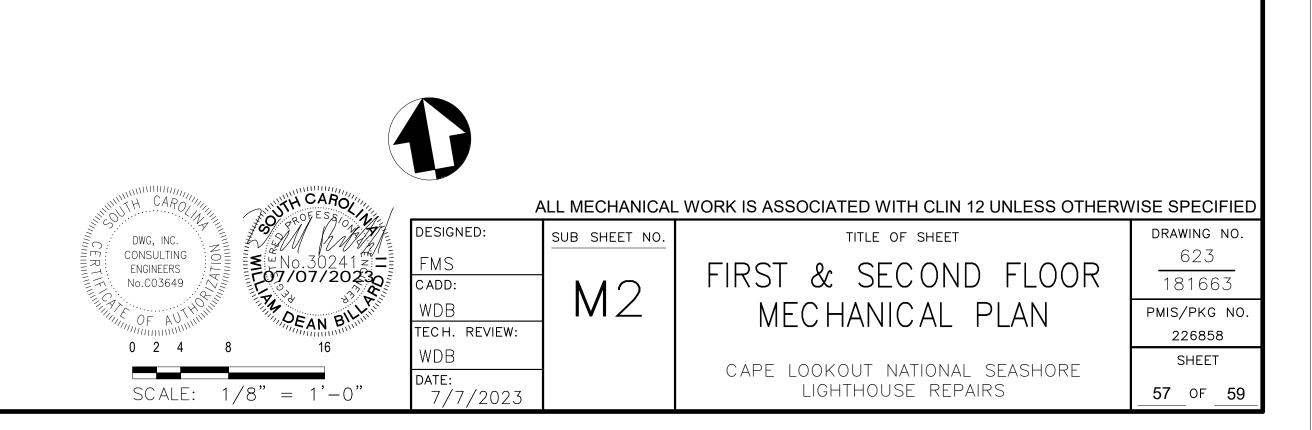




MARK	AIR PRESSURE DROP	DIMENSION FREE AREA	DIMENSION WIDTH	DIMENSION HEIGHT	BASIS OF DESIGN	MODEL
L-1	0.01 in-wg	1.24 SF	27.5"	21"	CUSTOM	
1. EXT		M, MILL FINISH, FLA		LUMINUM BIRDSCF	REEN (MOUNTED O	
			UVER COLOR TO BE SE			



SECOND LANDING MECHANICAL PLAN M2 SCALE: 1/8" = 1'-0"



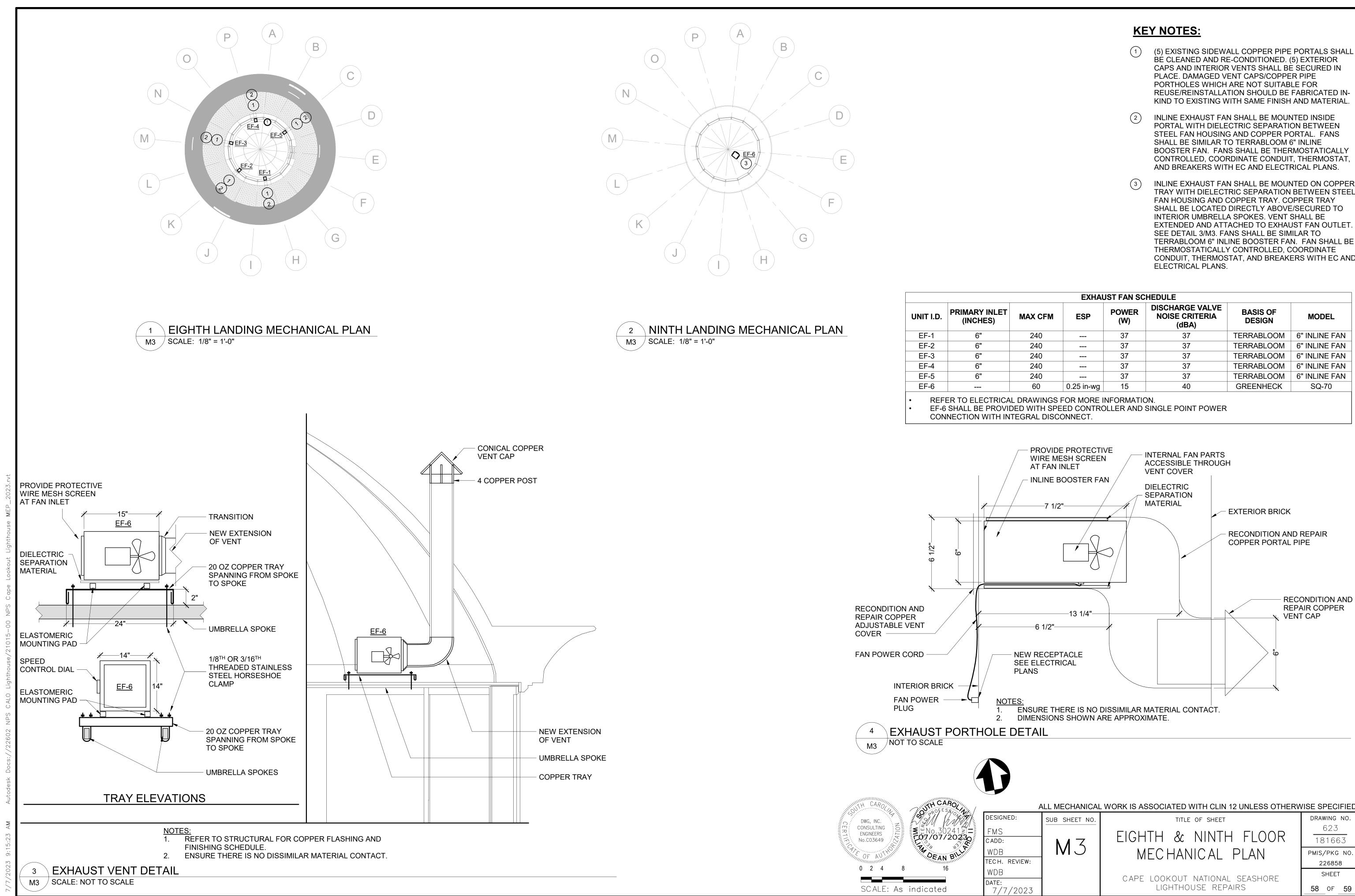
KEY NOTES:

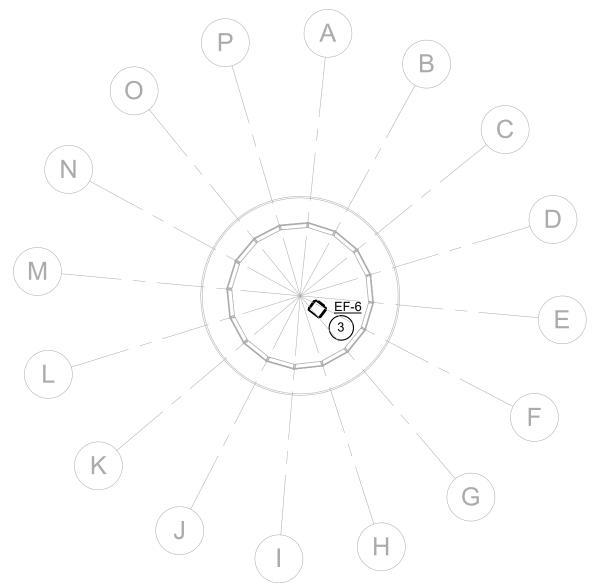
- PROVIDE ARCHITECTURAL AIR INTAKE LOUVER IN TRANSOM ABOVE DOORS. SEE ARCHITECTURAL $\left(1\right)$ PLANS, DOOR DETAILS.
- 2 CLIN 4: INSTALL NEW TEMPORARY LOUVER L-1 IN 7TH LEVEL WINDOW ONCE CAP OF LIGHTHOUSE HAS BEEN REMOVED. SEE ARCHITECTURAL PLANS, WINDOW DETAILS. TEMPORARY LOUVER L-1 TO ME REMOVED AFTER NEW EXHAUST FANS ARE OPERATIONAL.

GENERAL NOTES:

1. INSTALL LOUVERS PER MANUFACTURER RECOMMENDATION AND SEE ARCHITECTURAL FOR LOUVER DETAIL(S).

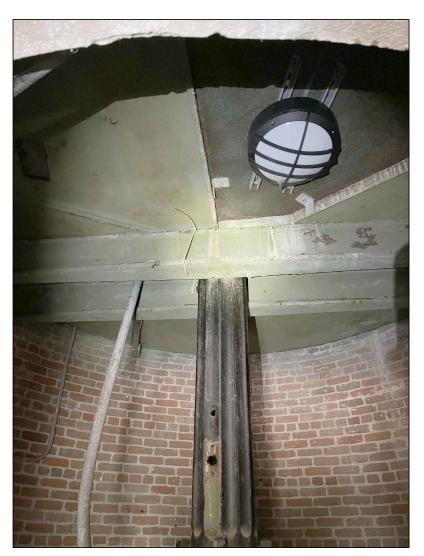
LOUVER SCHEDULE





UNIT I.D.	PRIMARY INLE (INCHES)				
EF-1	6"				
EF-2	6"				
EF-3	6"				
EF-4	6"				
EF-5	6"				
EF-6					
• EF-6	REFER TO ELECTRI EF-6 SHALL BE PRC CONNECTION WITH				

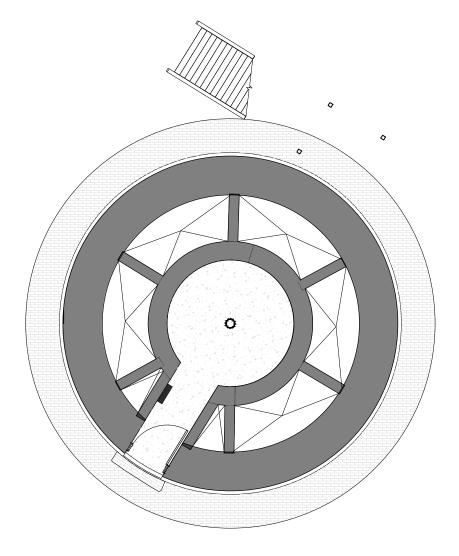
- TRAY WITH DIELECTRIC SEPARATION BETWEEN STEEL CONDUIT, THERMOSTAT, AND BREAKERS WITH EC AND



LEAD-BASED PAINT CEILING AND STRUCTURAL STEEL ON FIRST LANDING (GREEN PAINT ON METAL)



LEAD-BASED PAINT CENTER STAIRWAY SUPPORT/CONDUITS - THROUGHOUT INTERIOR (BLACK PAINT ON METAL)



FIRST LANDING PLAN



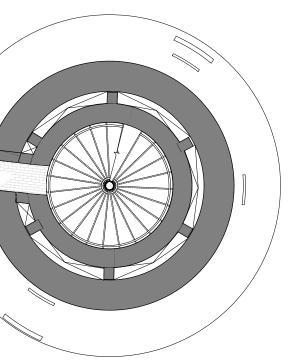


LEAD-BASED PAINT STAIRS AND HANDRAILS - THROUGHOUT INTERIOR (BLACK PAINT ON METAL

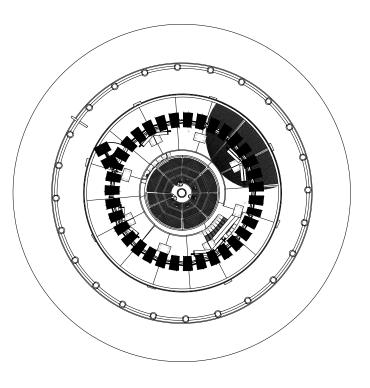


LEAD-BASED PAINT STRUCTURAL STEEL AND ASSOCIATED COMPONENTS - 9TH LANDING (LANTERN LEVEL) (WHITE PAINT ON METAL)

ASBESTOS CONTAINING WINDOW GLAZING (ASSUMED) EXTERIOR OF WINDOWS







NINTH LANDING PLAN

LEAD-BASED PAINT (≥0.5 WT)

- BLACK PAINT ON CENTER SUPPORT/CONDUIT OF STAIRS THROUGHOUT INTERIOR
- GREEN PAINT ON STRUCTURAL STEEL AND CEILING OF FIRST LANDING LEVEL
- BLACK PAINT ON METAL STAIRS AND HANDRAILS ON INTERIOR STAIRS THROUGHOUT
- WHITE PAINT ON METAL ON NINTH LANDING LEVEL

PRESUMED ASBESTOS CONTAINING MATERIALS







SHEET NOTES

GENERAL NOTES

- VERIFY FIELD CONDITIONS, DIMENSIONS, QUANTITIES, AND ASSOCIATED DETAILS. SUBMISSION OF THE BID ACKNOWLEDGES EXISTING CONDITIONS.
- SUBMIT A WASTE HANDLING AND DISPOSAL PLAN FOR HAZARDOUS MATERIALS PRIOR TO THE START OF HAZARDOUS MATERIAL ACTIVITIES OR DEMOLITION. DECLARE SOURCES FOR RECYCLING AND DISPOSAL.
- PERFORM WORK AND PROVIDE SUBMITTALS PER CONTRACT REQUIREMENTS AND SECTIONS 028233, 028333, AND 028400.

ASBESTOS

- PERFORM ASBESTOS WORK IN ACCORDANCE WITH 40 CFR 61, OSHA SUBPART M, 29 CFR 1926.1101, AND NC REQUIREMENTS.
- REMOVE AND DISPOSE APPROXIMATELY 600 LINEAR FEET OF ASSUMED ASBESTOS CONTAINING WINDOW GLAZING LOCATED ON THE EXTERIOR OF THE LAMP LEVEL (9TH LEVEL) WINDOWS.
- EXTRACT A CONFIRMATORY SAMPLE OF THE WINDOW GLAZING AND ANALYZE FOR ASBESTOS CONTENT PRIOR TO PERMITTING OR REMOVAL OF THE GLAZING.
- REMOVE GLAZING IN-PLACE OR SECURE GLAZING TO THE WINDOW AND REMOVE WINDOW AS A COMPONENT TO REMOVE GLAZING AT GROUND LEVEL OR OFF-SITE.
- REMOVAL OF THE GLAZING EXTERIOR SHALL BE CONDUCTED OUTDOORS AND REQUIRES A DESIGNATED CONTROL ZONE WITH BARRIER TAPE AND SIGNAGE PER OSHA.
- PROTECT GROUND AND ADJACENT SURFACES WITH POLYETHYLENE SHEETING.
- WET METHODS SHALL BE USED DURING REMOVAL AND BAGGING OF WASTE.
- ONSITE AIR MONITORING SHALL BE PERFORMED DURING ABATEMENT OF THE GLAZING AND IS THE RESPONSIBILITY OF THE CONTRACTOR. AIR MONITORING SHALL BE PERFORMED IN ACCORDANCE WITH STATE AND FEDERAL REQUIREMENTS.
- CONTAIN ASBESTOS WASTE IN DOUBLE LAYERED 6-MIL POLYETHYLENE SHEETING OR BAGS AND STORE IN A FULLY ENCLOSED LOCKED WASTE CONTAINER PRIOR TO TRANSPORT TO THE APPROVED LANDFILL.

LEAD-BASED PAINT

- DISTURBANCES TO SURFACES IDENTIFIED WITH LEAD-BASED PAINT SHALL BE PERFORMED IN COMPLIANCE WITH OSHA 29 CFR 1926.62 (OSHA LEAD IN CONSTRUCTION) AND EPA 40 CFR 745 (RRP FOR LEAD).
- REMOVAL OF LEAD-BASED PAINT SHALL NOT DAMAGE OR COMPROMISE THE SUBSTRATE.
- ABATE LEAD-BASED PAINT ON THE FOLLOWING SURFACES AND ASSOCIATED COMPONENTS:
- INTERIOR STAIRS AND HANDRAILS (BLACK PAINT ON METAL) DETERIORATED CONDITION
- CENTER STAIRWAY SUPPORTS/CONDUITS (BLACK PAINT ON METAL) -
- DETERIORATED CONDITION) O STRUCTURAL STEEL AND CEILING ON FIRST LANDING (GREEN PAIN ON METAL) -
- NON-DETERIORATED CONDITION. STRUCTURAL STEEL AND COMPONENTS ON LANTERN LEVEL (9THLANDING) - WHITE PAINT ON METAL - NON-DETERIORATED.
- REMOVE AND PREPARE FOR REPAINTING THOSE LEAD-BASED PAINTS WHICH ARE LOOSE, FLAKING, EXHIBIT RUST OR ARE OTHERWISE COMPROMISED. LEAD-BASED PAINT WHICH IS ADHERED, IN GOOD CONDITION, AND EXHIBITS NO OTHERWISE COMPROMISING FEATURES SHALL REMAIN AND BE PREPARED FOR REPAINTING PER PROJECT REQUIREMENTS.
- REMOVE LEAD-BASED PAINT TO BRIGHT METAL ON THOSE COMPONENTS SCHEDULED TO BE PHYSICALLY REMOVED FROM THE LANTERN LEVEL (LEVEL 9). THE LEAD-BASED PAINT WILL BE REMOVED ONCE TRANSFERRED TO AN OFF-SITE LÓCATION AND PRIOR TO REPAIR AND REPAINTING.
- PERFORM TEST PATCHES REPRESENTATIVE OF SELECTED ABATEMENT TECHNIQUES TO CONFIRM THE EFFECTIVENESS AND SUITABILITY OF THE PRODUCTS AND PROCESSES.
- PROTECT SURFACES WITHIN AND OUTSIDE THE WORK ZONE FROM CONTAMINATION OF LEAD DUST AND DEBRIS. IMMEDIATELY CLEAN CONTAMINATED SURFACES OR DISPOSE AS LEAD CONTAMINATED WASTE. APPLY ENGINEERING CONTROLS AS NECESSARY
- PERFORM SOIL OR WIPE TESTING OF SURFACES IN THE WORK AREA PRIOR TO ABATEMENT ACTIVITIES AND ANALYZE FOR LEAD CONTENT. REPLICATE TESTING AFTER ABATEMENT TO ENSURE AND ACHIEVE LEVELS OF LEAD AT OR BELOW PRE-ABATEMENT LEAD LEVELS.
- SEGREGATE AND CONTAIN LEAD-BASED PAINT WASTE AND LEAD CONTAMINATED WASTE STREAMS AND STORE IN DOT APPROVED 55-GALLON DRUMS.
- TEST EACH WASTE STREAM BY TCLP AND PRESENT THE DETERMINED WASTE CLASSIFICATIONS TO THE OWNER FOR APPROVAL PRIOR TO TRANSPORT OR DISPOSAL.

ADDITIONAL HAZARDOUS MATERIALS

- REMOVE AND RECYCLE FLUORESCENT LAMPS AND BULBS (MERCURY VAPOR SOURCE). RECYCLE THE SUBJECT LAMPS IN ACCORDANCE WITH EPA'S UNIVERSAL WASTE REQUIREMENTS.
- REMOVE ELECTRONIC BALLASTS NOT LABELED "NO PCBs" AND PLACE IN APPROPRIATE CONTAINERS. MANAGE, TREAT, OR DISPOSE AS PCB UNIVERSAL WASTE.

GNED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
		ABATEMENT OF	623
D:			181663
		HAZARDOUS MATERIALS	PMIS/PKG NO.
H. REVIEW:			226858
		CAPE LOOKOUT NATIONAL SEASHORE	SHEET
E: 3/17/2023		LIGHTHOUSE REPAIRS	59 OF 59
3/17/2023		LIGHTHOUSE REPAIRS	59 OF 59