SHOWER REPAIRS FOR YORK COUNTY MOSS JUSTICE CENTER BUILDING #6 UNITS I & J BLOCK

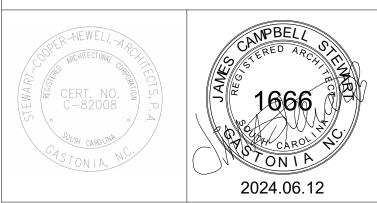
PROJECT TEAM

ARCHITECT

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PLUMBING & ELECTRICAL

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NOTE:

ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AND TRADES TO COORDINATE THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY ALL OTHER CONTRACTORS AND TRADES. THE REQUIREMENTS OF THE DRAWINGS, GENERAL REQUIREMENTS AND ALL ITEMS OF THE CONTRACT DOCUMENTS ARE EQUALLY BINDING ON ALL CONTRACTORS AND TRADES. EACH CONTRACTOR IS REQUIRED TO MAINTAIN FULL SETS OF THE CONTRACT DOCUMENTS ON SITE FOR HIS/HER EMPLOYEES USE ON THE PROJECT TO ASSURE THAT ALL WORK IS PROPERLY COORDINATED AND INSTALLED WITH THE WORK OF OTHER CONTRACTORS AND TRADES.



NOTE: CONTRACTOR MUST FIELD MEASURE AND VERIFY ALL DIMENSIONS PRIOR TO FABRICATING ANY COMPONENT OF THE SHOWER. ALL PLUMBING , MECHANICAL AND ELECTRICAL INSTALLATION MUST BE FIELD VERIFIED PRIOR TO INSTALLATION

¹⁷⁶¹ YORK COUNTY MOSS JUSTICE #6 SHOWER REPAIR Stewart Cooper Newell

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C	COVER SHEET Sheet No.					

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

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1.00

SHOWER REPAIRS FOR **YORK COUNTY MOSS JUSTICE CENTER** BUILDING #6 UNITS I & J

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The Scope of the Work

The work is located in I-Block and J-Block and involves the demolition, resurfacing existing showers and installing new stainless steel showers and accessories and modesty panels.

I-Block work details:

- A. Clean all first floor shower by removing metal pans, sand blast or bead blast to properly prepare for epoxy base and floor finish.
- B. Clean all metal surfaces including the ceiling and wall. Use a cleaner that will thoroughly clean the surface coating. Coat any rust areas with POR 15 Rust Converter.
- C. Test all surfaces for adhesive bond over existing surfaces.
- D. Install all stainless steel ceiling and wall panels as detailed using specified adhesive and theft resistant security screws applied in the same locations as the original metal panel. All stainless steel ceilings and panels must be properly shored in place until the adhesive is cured and the security screws are in place.

The drawings fully describe the complete details of the I-Block showers on both the first level and second level.

J-Block work details:

- A. Remove all existing showers on both levels of J-Block.
- B. Clean the entire area where existing showers are removed.
- C. Eight (8) new standard showers are to be installed in J-Block and one (1) shower on the lower level will be custom made stainless steel similar to those in I-Block.
- D. These showers will have custom made privacy extension panels similar to the existing.
- E. These showers will be complete with all accessories as detailed and shown.

¹⁷⁶¹ YORK COUNTY MOSS JUSTICE #6 **SHOWER REPAIR**

General Notes that apply to all Showers:

- ventilation and all other accessories or items.
- Security Fasteners.
- C. All sealant exposed to inmates shall be pick proof.
- must be Vandal Resistant and Ligature Resistant.
- E. All seams, laps and joints must be fully back sealed with adhesive.
- where required. Use "Lock-Tite" on all fasteners.
- application of epoxy components and materials.

Special Notes:

All custom fabricated shower components shall be individually measured and documented prior to fabrication and final installation.



A. All showers shall have custom overhead shower head as detailed. They must have all cutouts for lights, shower heads, fire protection,

B. All screws, bolts and components shall be vandal resistant "Tork"

D. All components in the showers shall be made of rust resistant materials such as stainless steel, chrome plated brass or aluminum. All items

F. All fasteners of ceiling and wall panels of custom fabricated showers shall follow the line and path of the original fasteners. Supplement

G. All existing concrete floors shall be completely cleaned by chemical cleaning, bead blasting, sand blasting or other methods which are approved by the manufacturer of the epoxy flooring and its components prior to any installation being performed. The floor surface must be inspected by the manufacturer and receive approval prior to

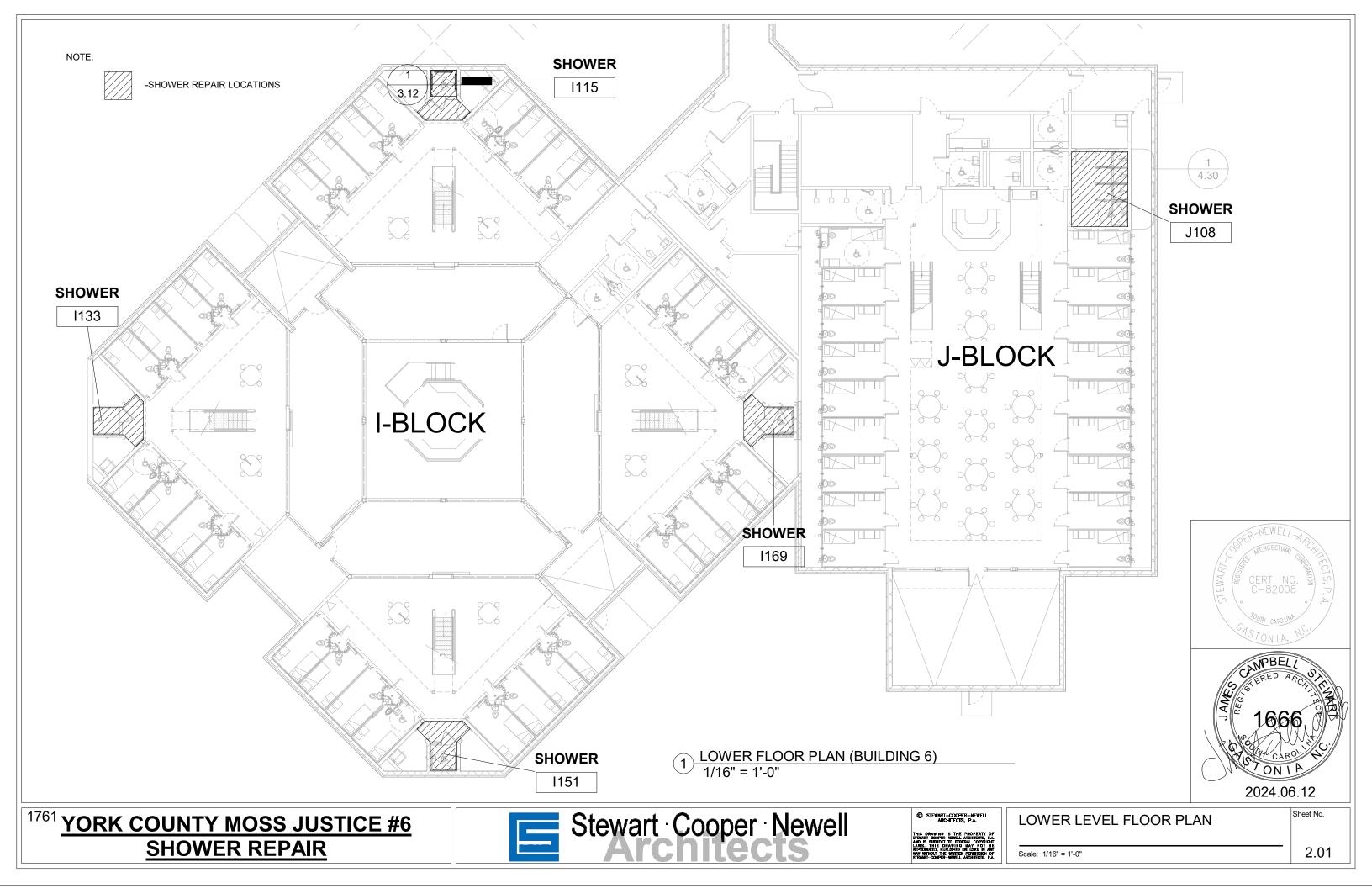
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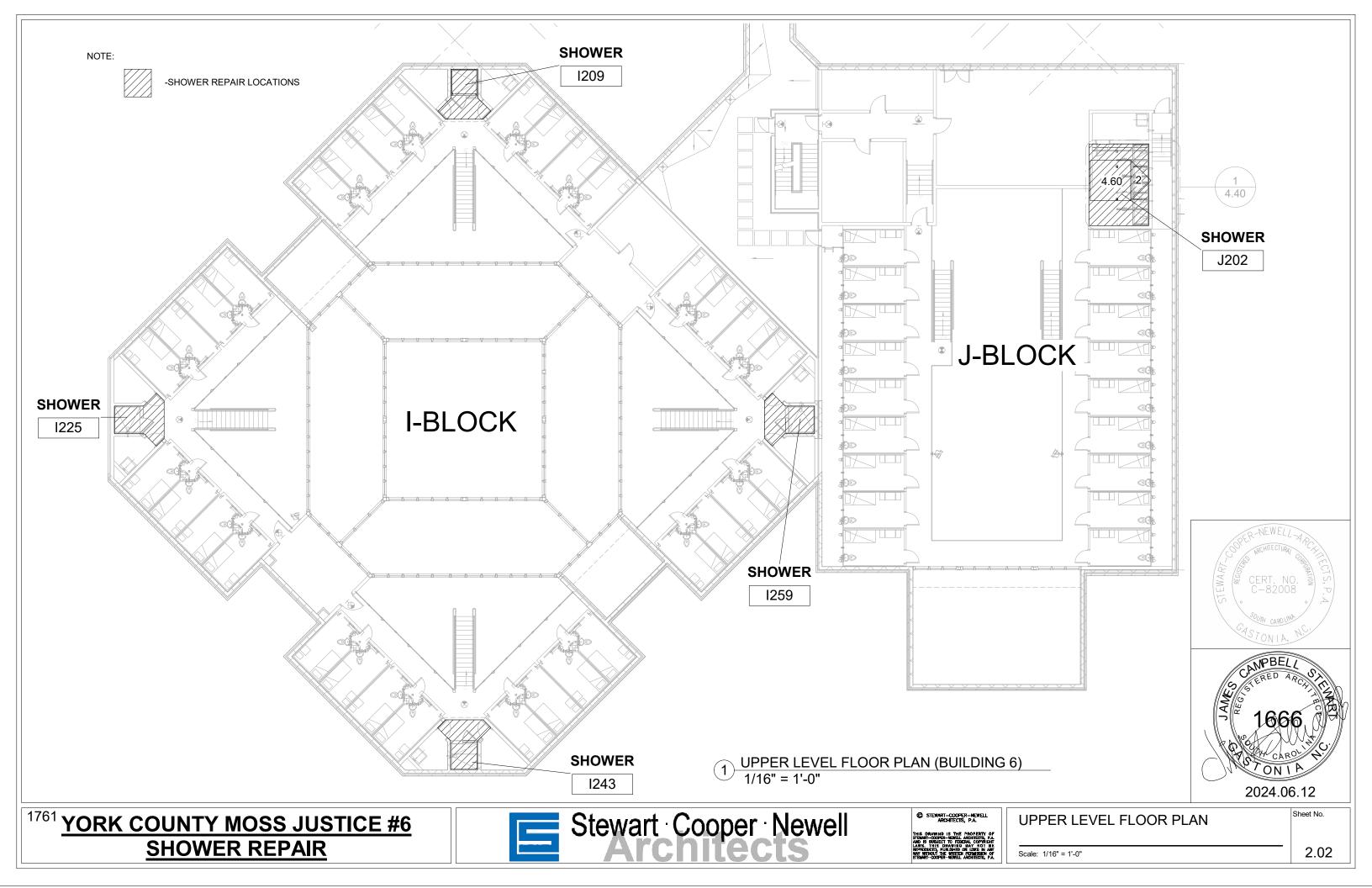
SCOPE OF WORK

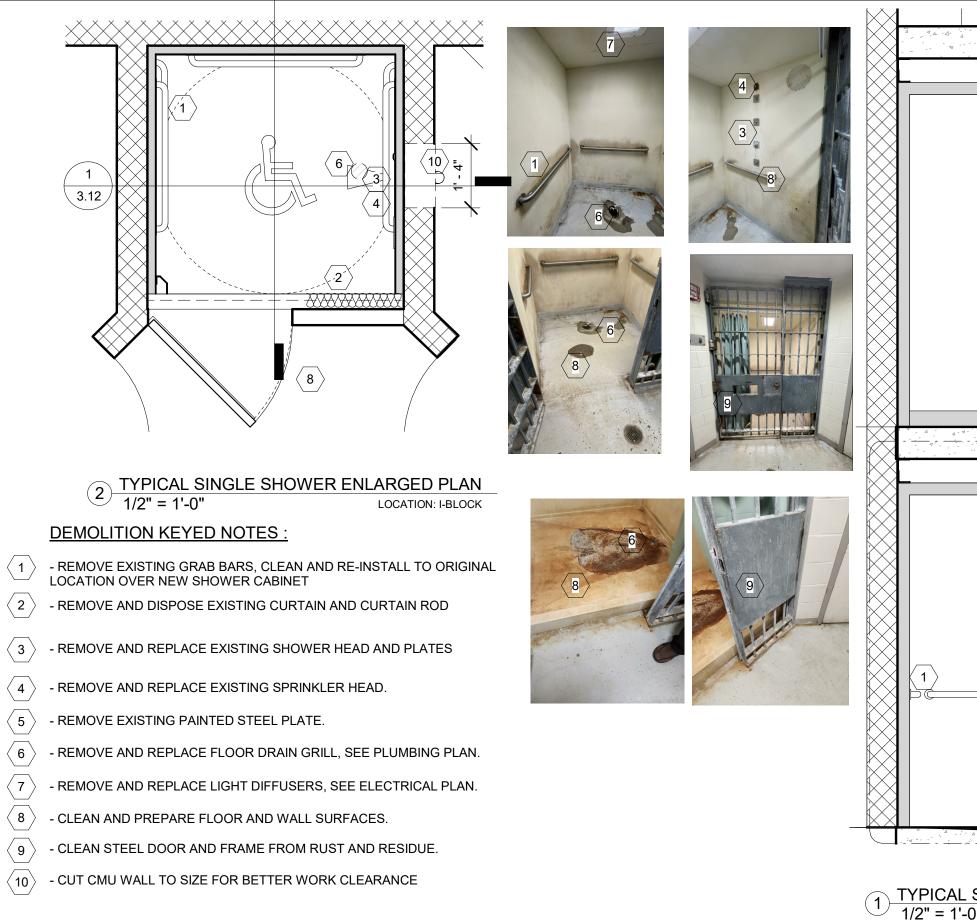
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TYPICAL SINGLE SHOWER DEMOLITION SECTION 1/2" = 1'-0"

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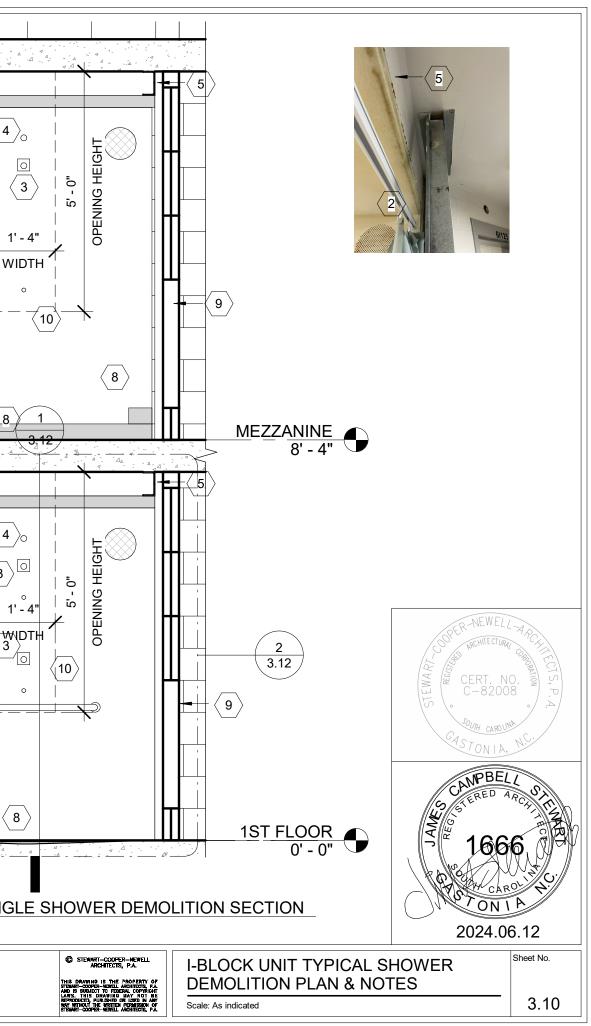
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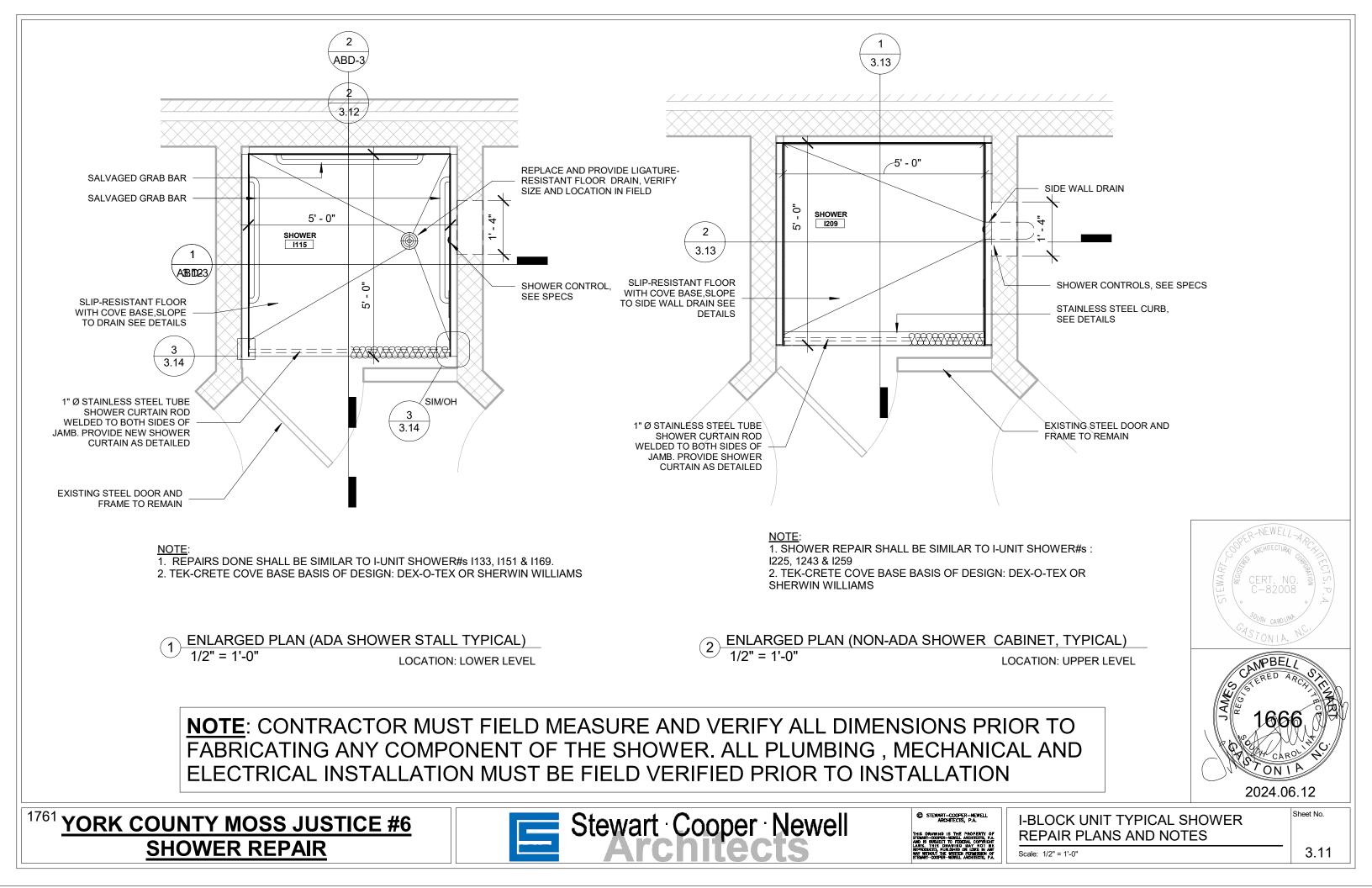
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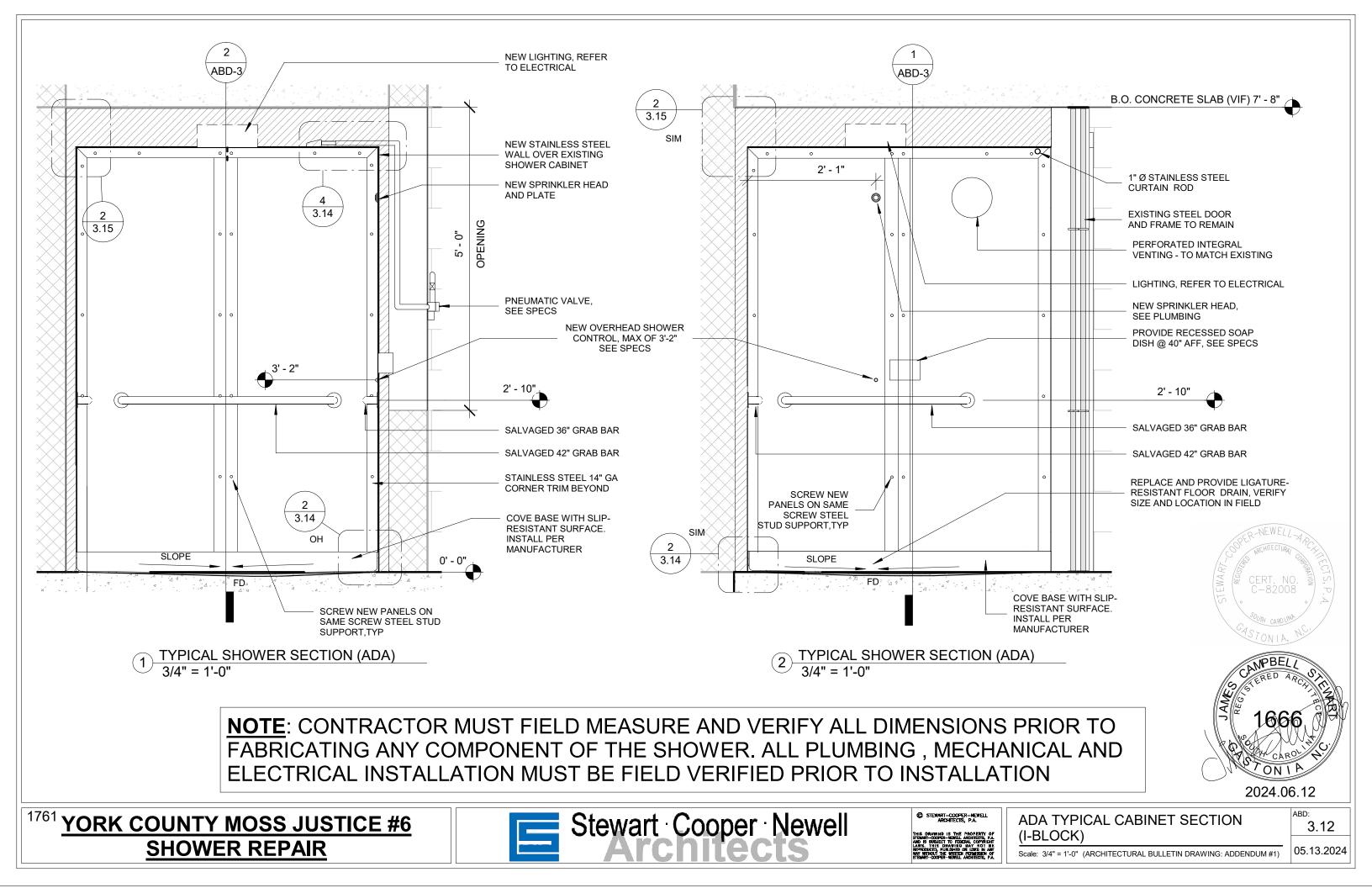
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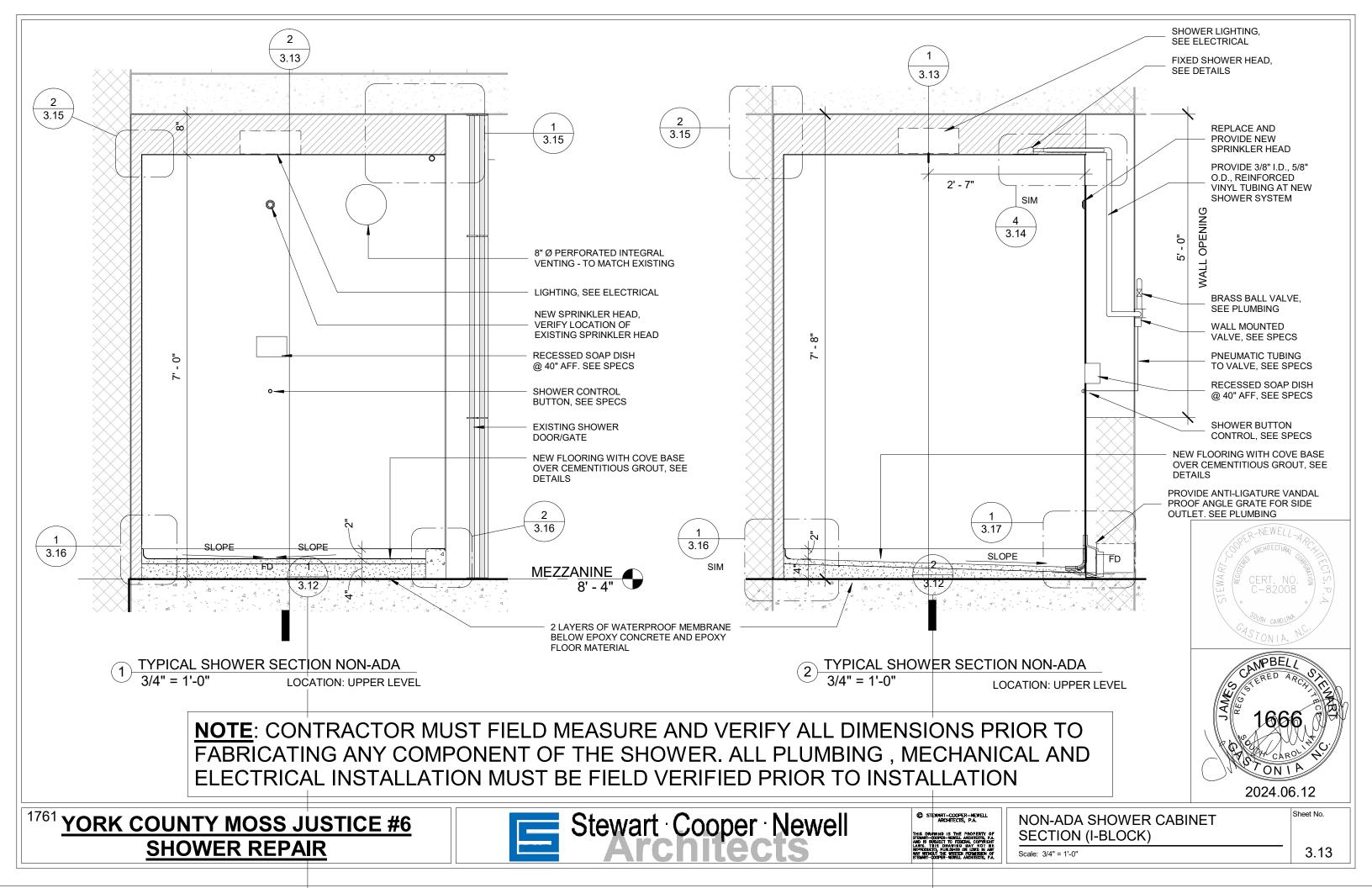
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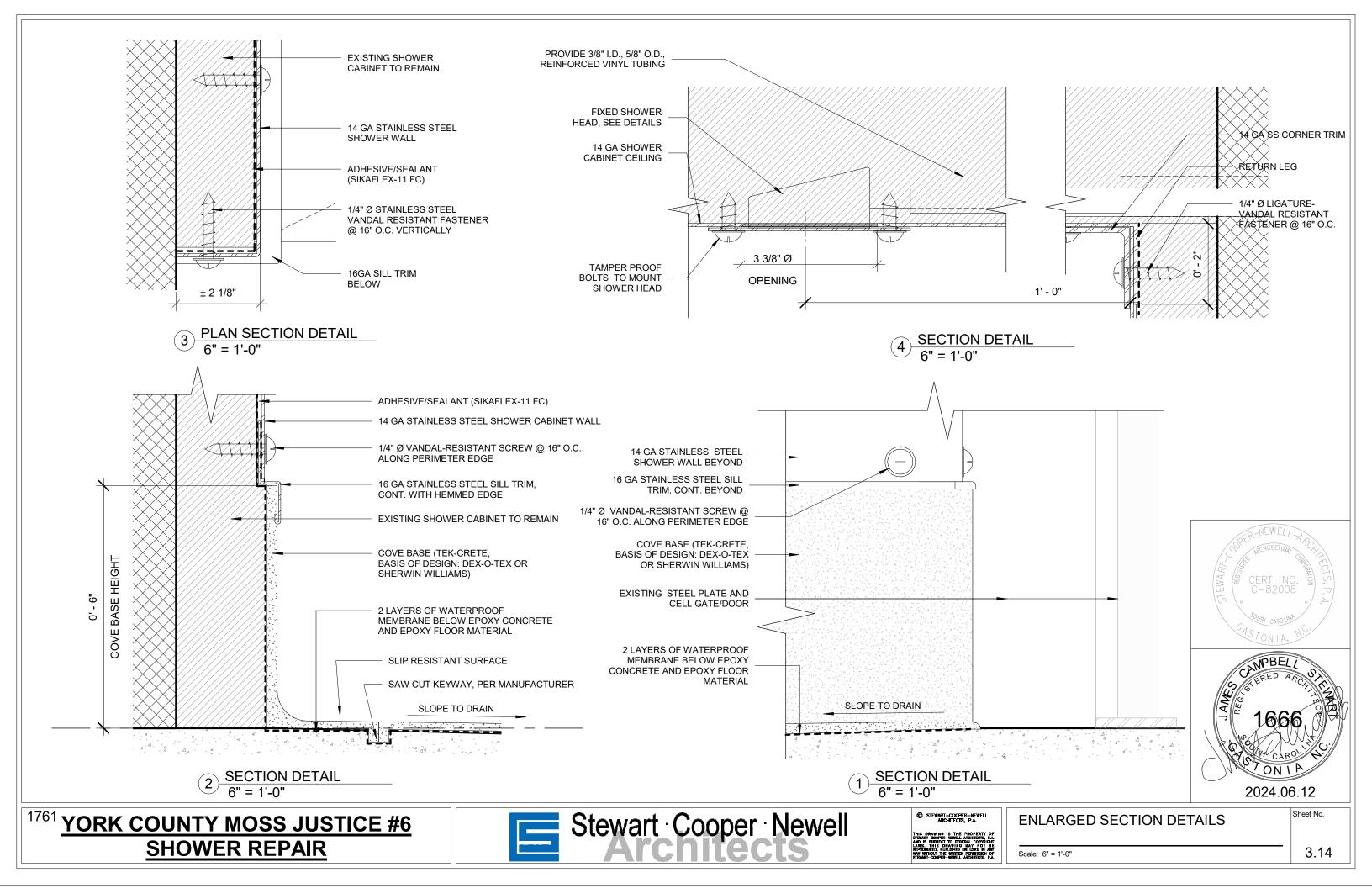
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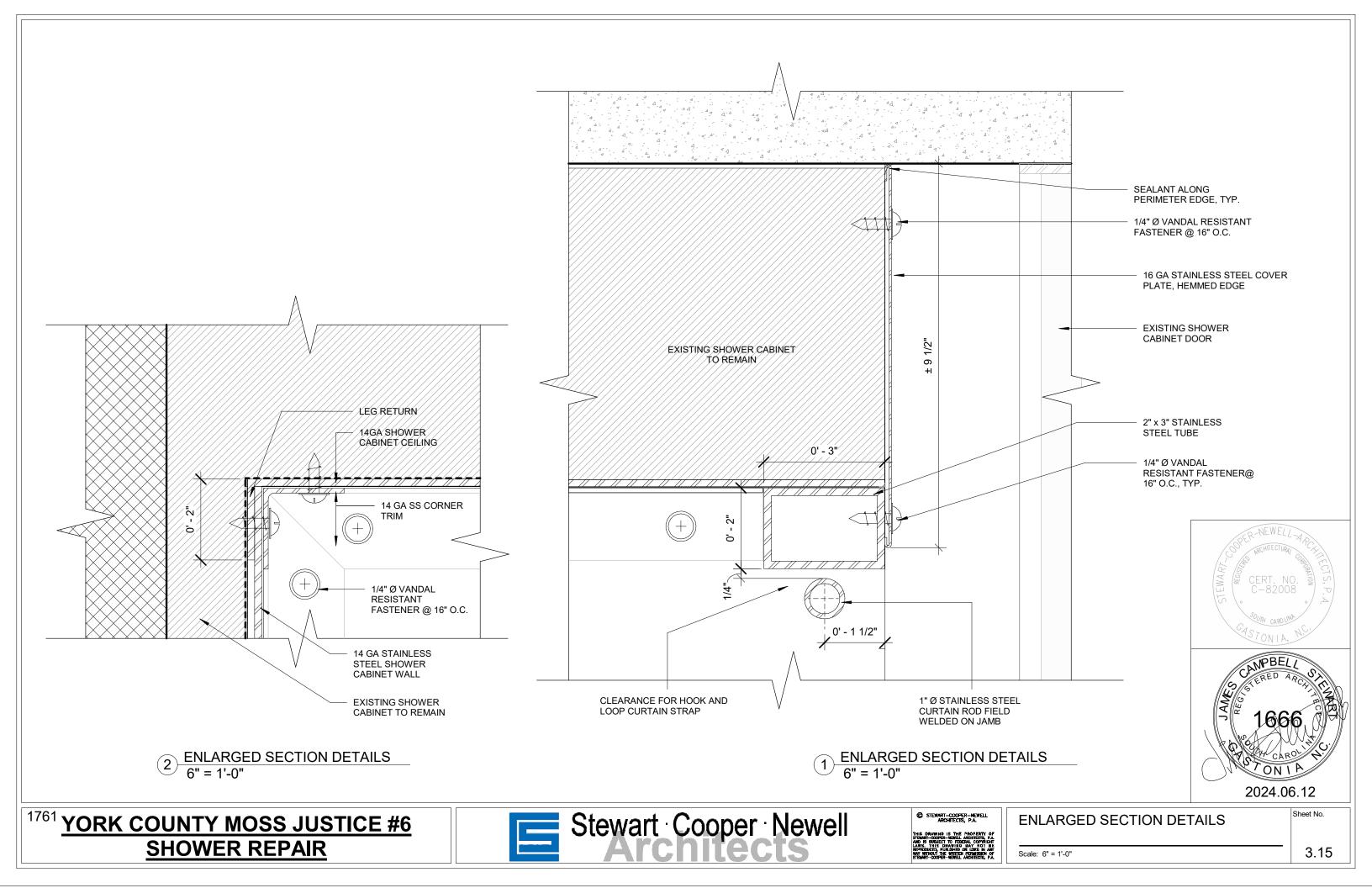


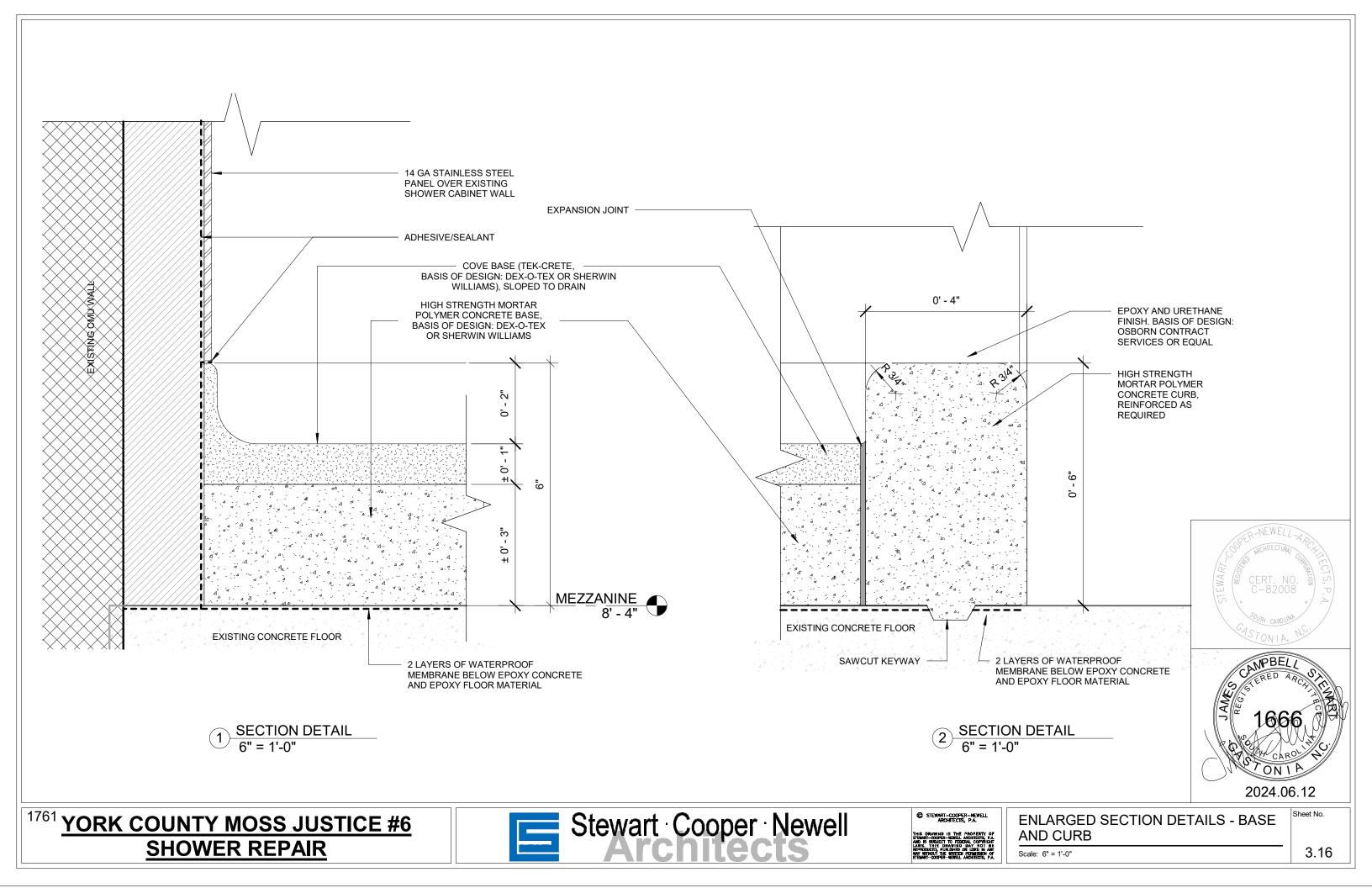


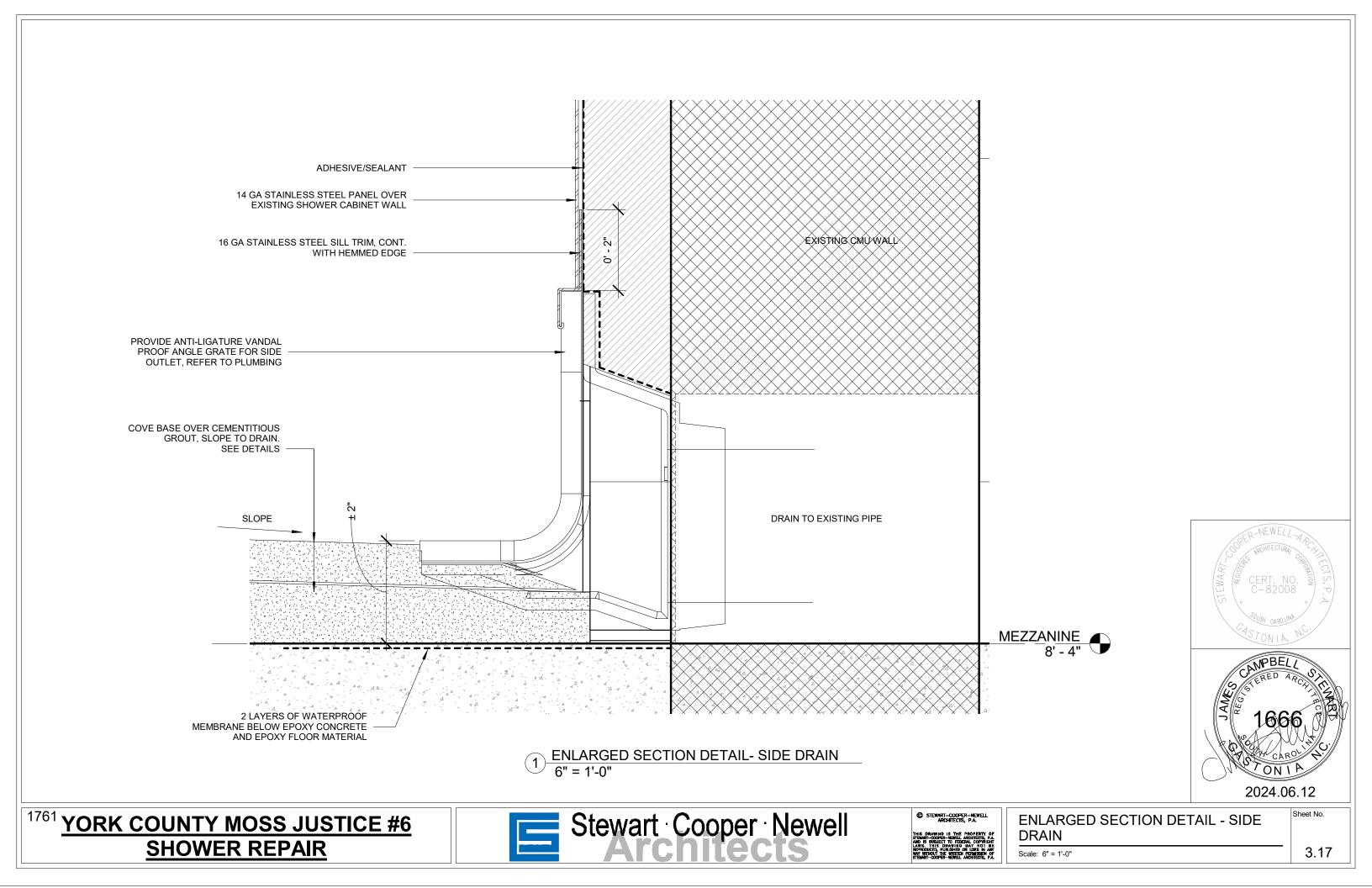


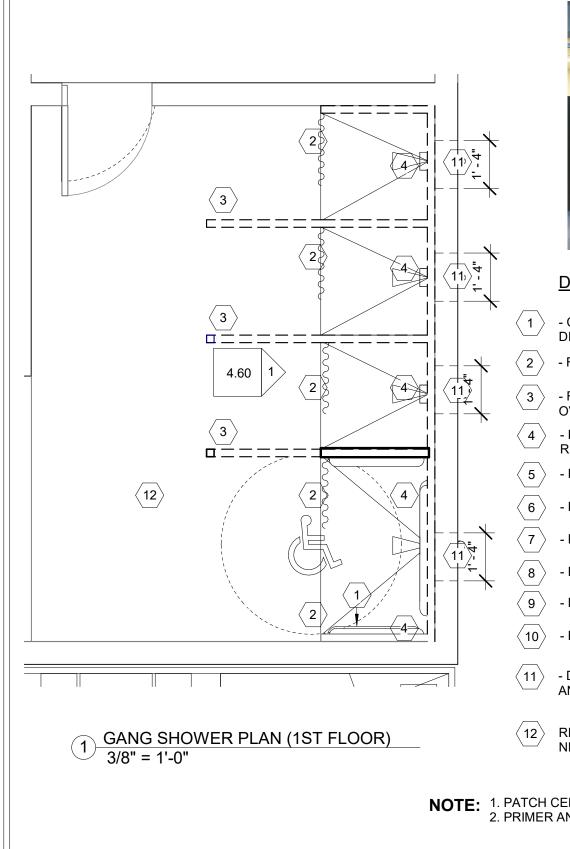




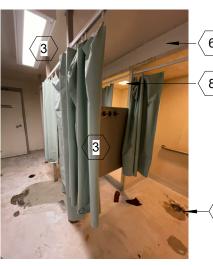












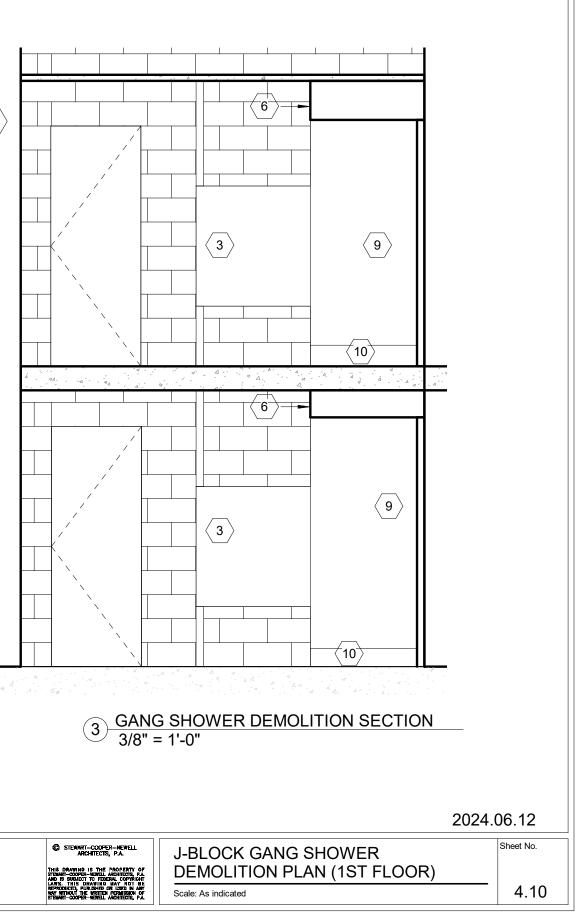
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DEMOLITION KEYED NOTES :

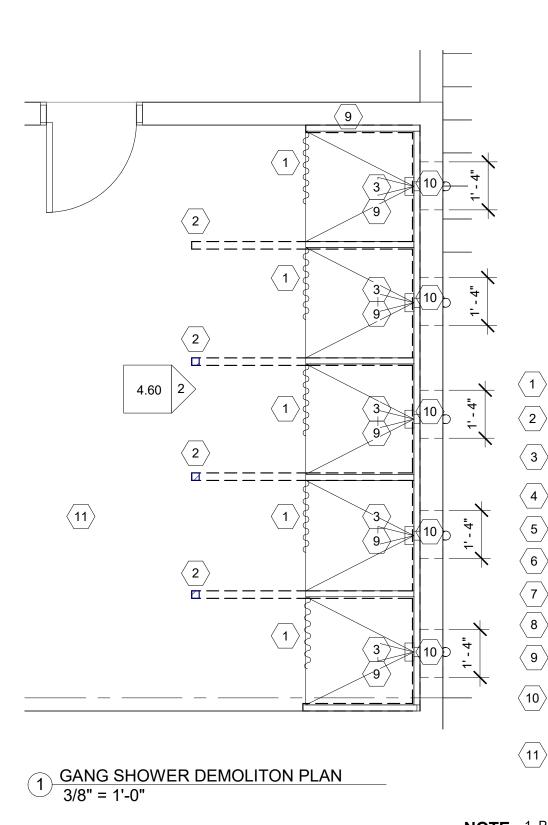
- CAREFULLY REMOVE EXISTING GRAB BARS, CLEAN AND REINSTALL AS DIRECTED
- REMOVE EXISTING CURTAIN AND CURTAIN ROD
- REMOVE EXISTING EXTENSION PANELS/PARTITION, POST AND OVERHEAD SUPPORT.
- REMOVE AND REPLACE EXISTING SHOWER HEAD AND PLATES, REFER TO NEW PLAN DETAILS.
- REMOVE AND REPLACE EXISTING SPRINKLER HEAD.
- REMOVE EXISTING PAINTED STEEL PLATE.
- REMOVE AND REPLACE FLOOR DRAIN GRILL, SEE PLUMBING PLAN.
- REMOVE AND REPLACE LIGHT DIFFUSERS, SEE ELECTRICAL PLAN.
- DEMO SHOWER WALL PANELS AND CURB.
- PREPARE FLOOR AND WALLS FOR NEW SHOWER PANELS.
- DEMO/CREATE WALL OPENING, REFER TO NEW PLAN FOR HEIGHT AND WIDTH.
- REMOVE EXISTING SHOWER FLOOR COATING AND PREPARE FOR NEW FLOOR FINISH

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NOTE: 1. PATCH CEILINGS AS REQUIRED. 2. PRIMER AND PAINT TO MATCH ADJACENT.









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DEMOLITION KEYED NOTES :

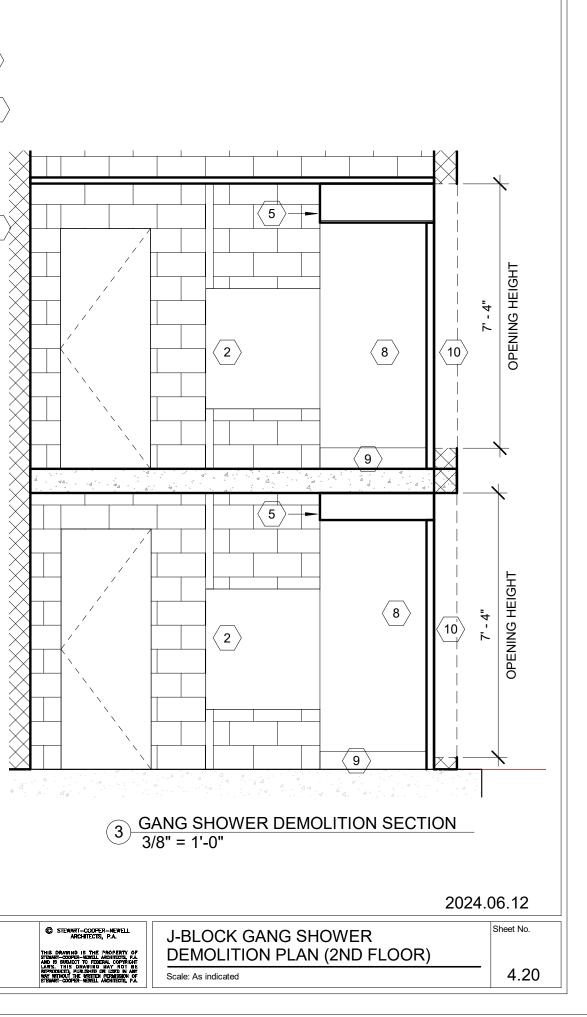
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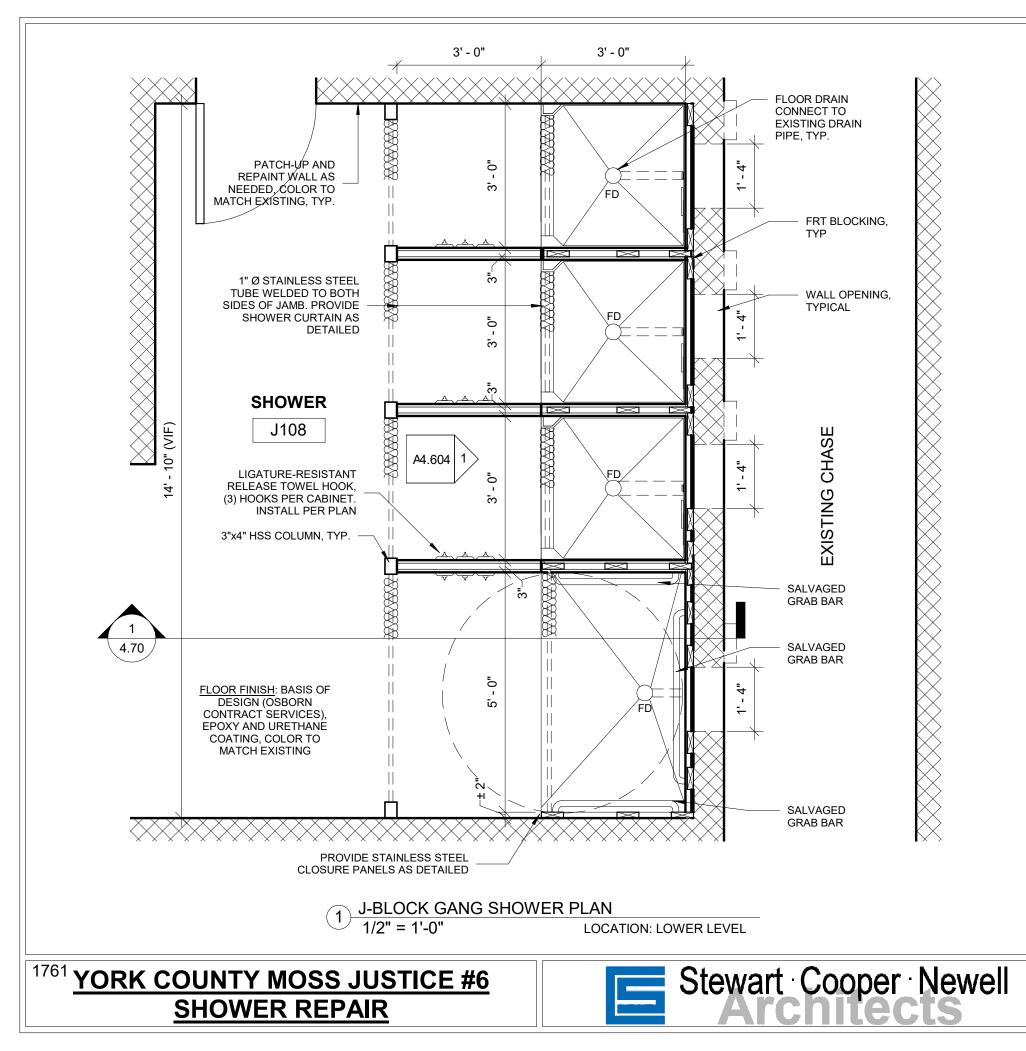
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 $\left< 11 \right> \ \mbox{REMOVE EXISTING SHOWER FLOOR COATING AND PREPARE FOR NEW FLOOR FINISH}$

NOTE: 1. PATCH CEILINGS AS REQUIRED. 2. PRIMER AND PAINT TO MATCH ADJACENT.

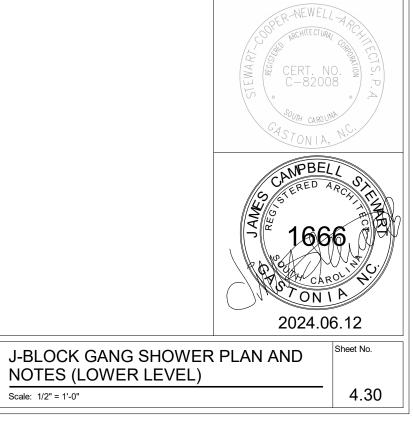


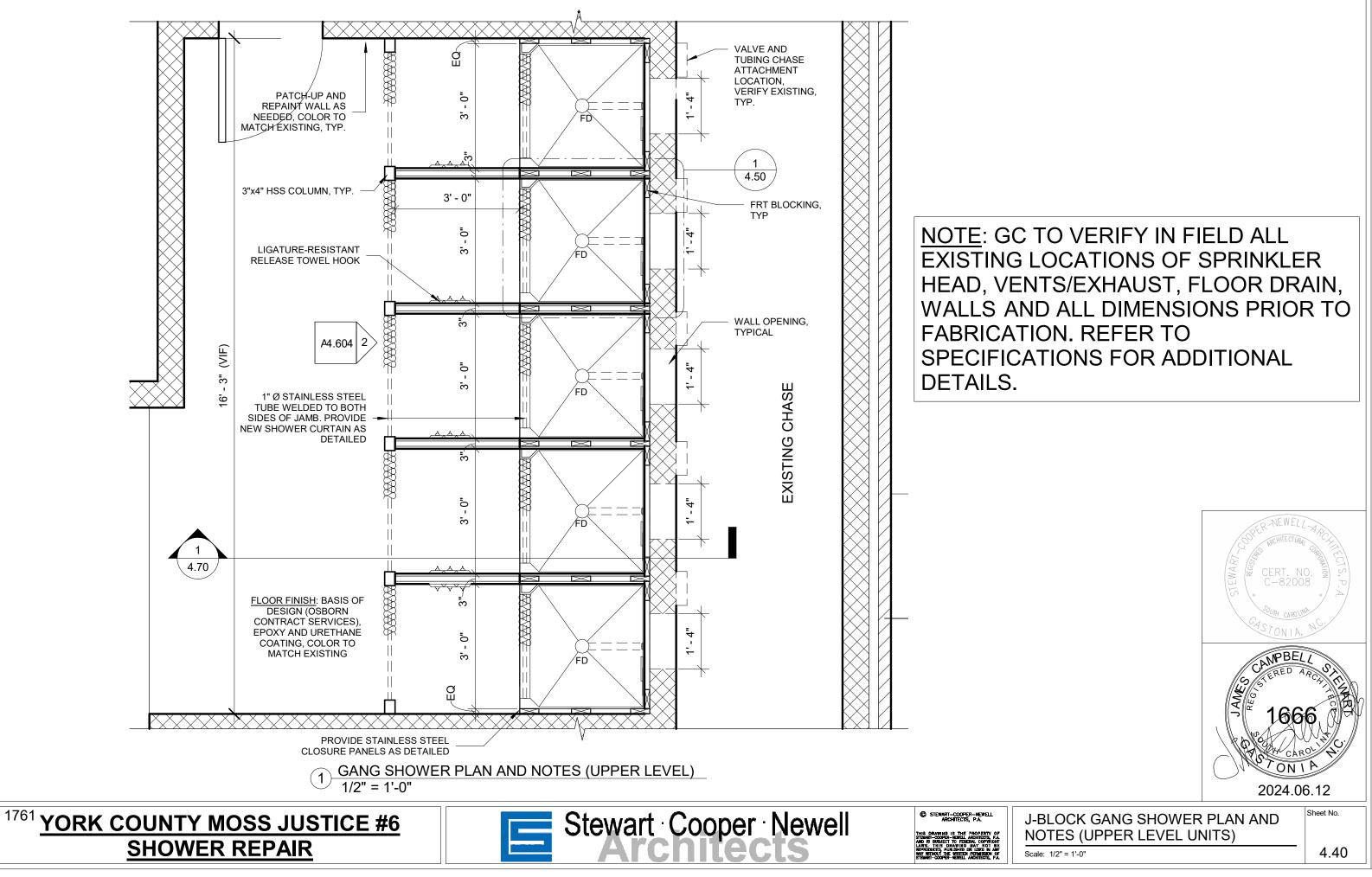


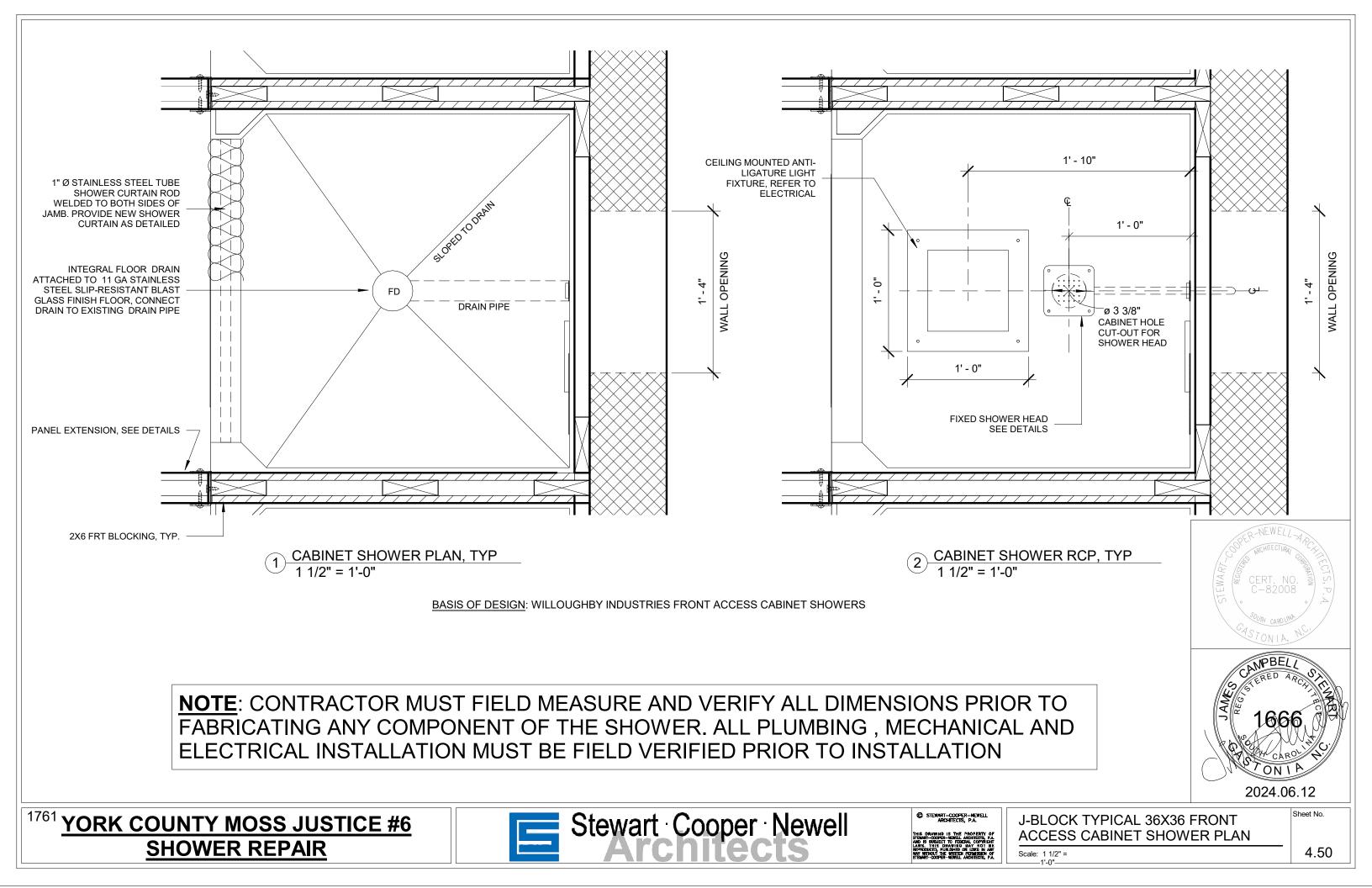


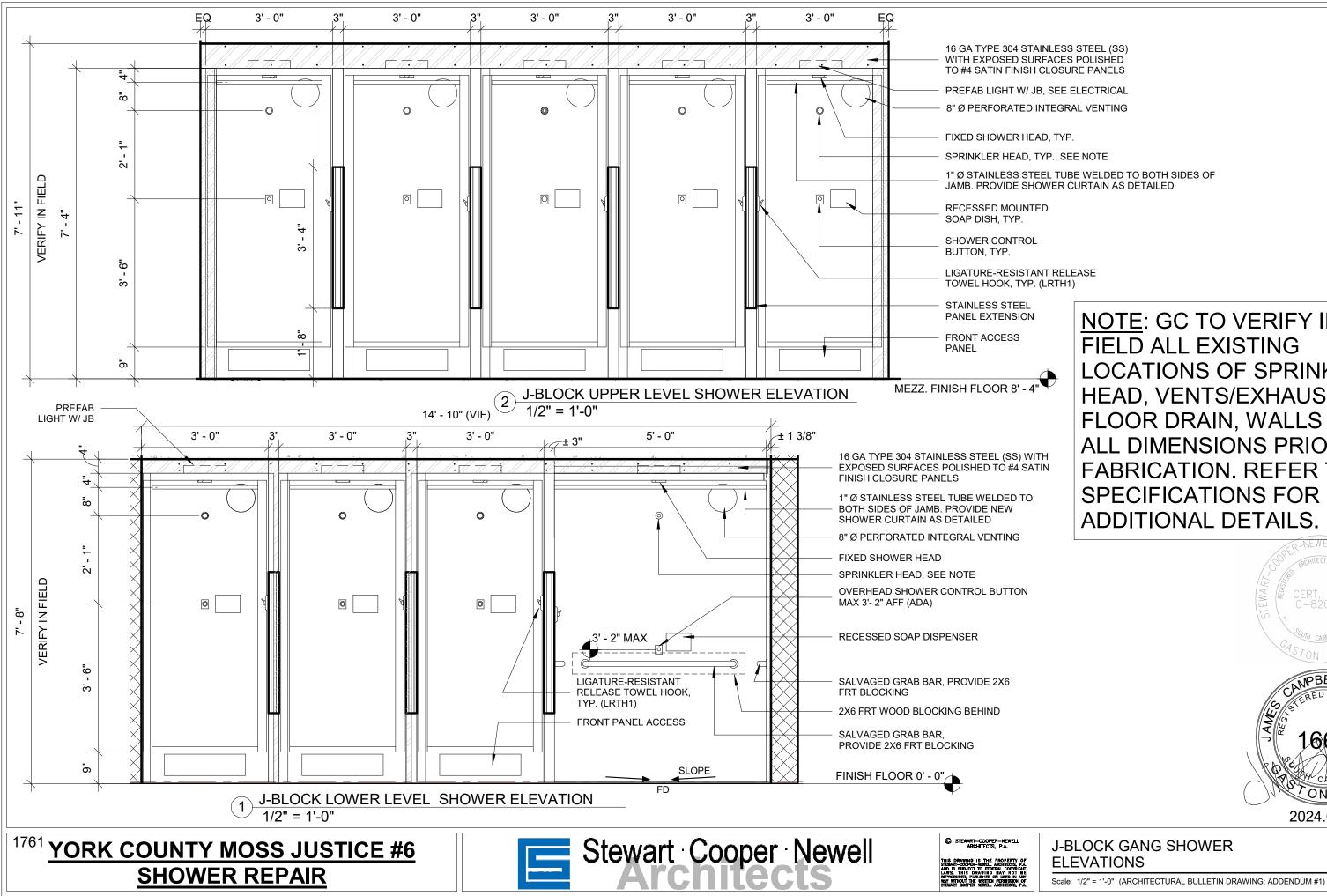


NOTE: GC TO VERIFY IN FIELD ALL **EXISTING LOCATIONS OF SPRINKLER** HEAD, VENTS/EXHAUST, FLOOR DRAIN, WALLS AND ALL DIMENSIONS PRIOR TO FABRICATION. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.









NOTE: GC TO VERIFY IN FIELD ALL EXISTING LOCATIONS OF SPRINKLER HEAD, VENTS/EXHAUST, FLOOR DRAIN, WALLS AND ALL DIMENSIONS PRIOR TO FABRICATION. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.

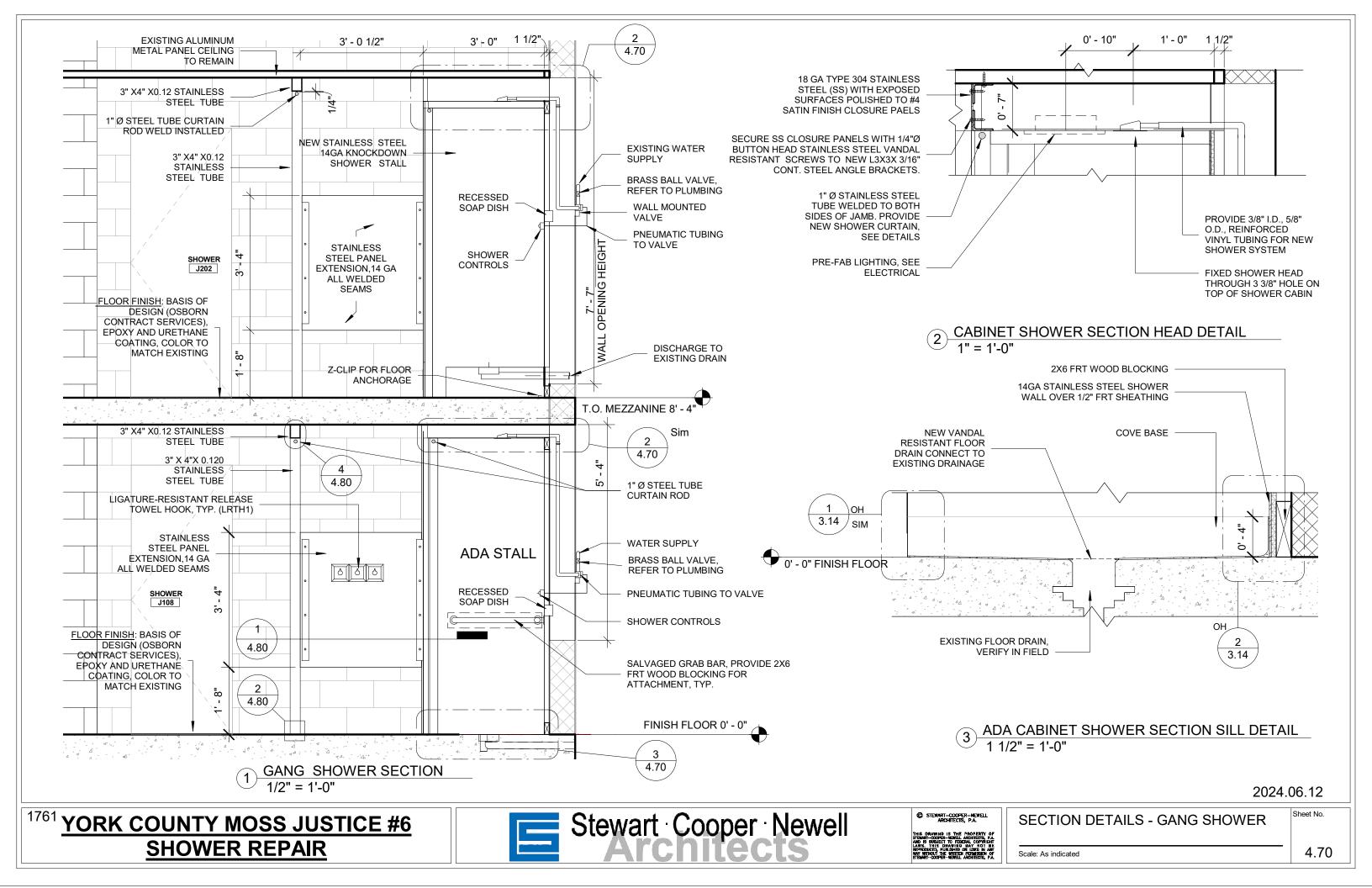
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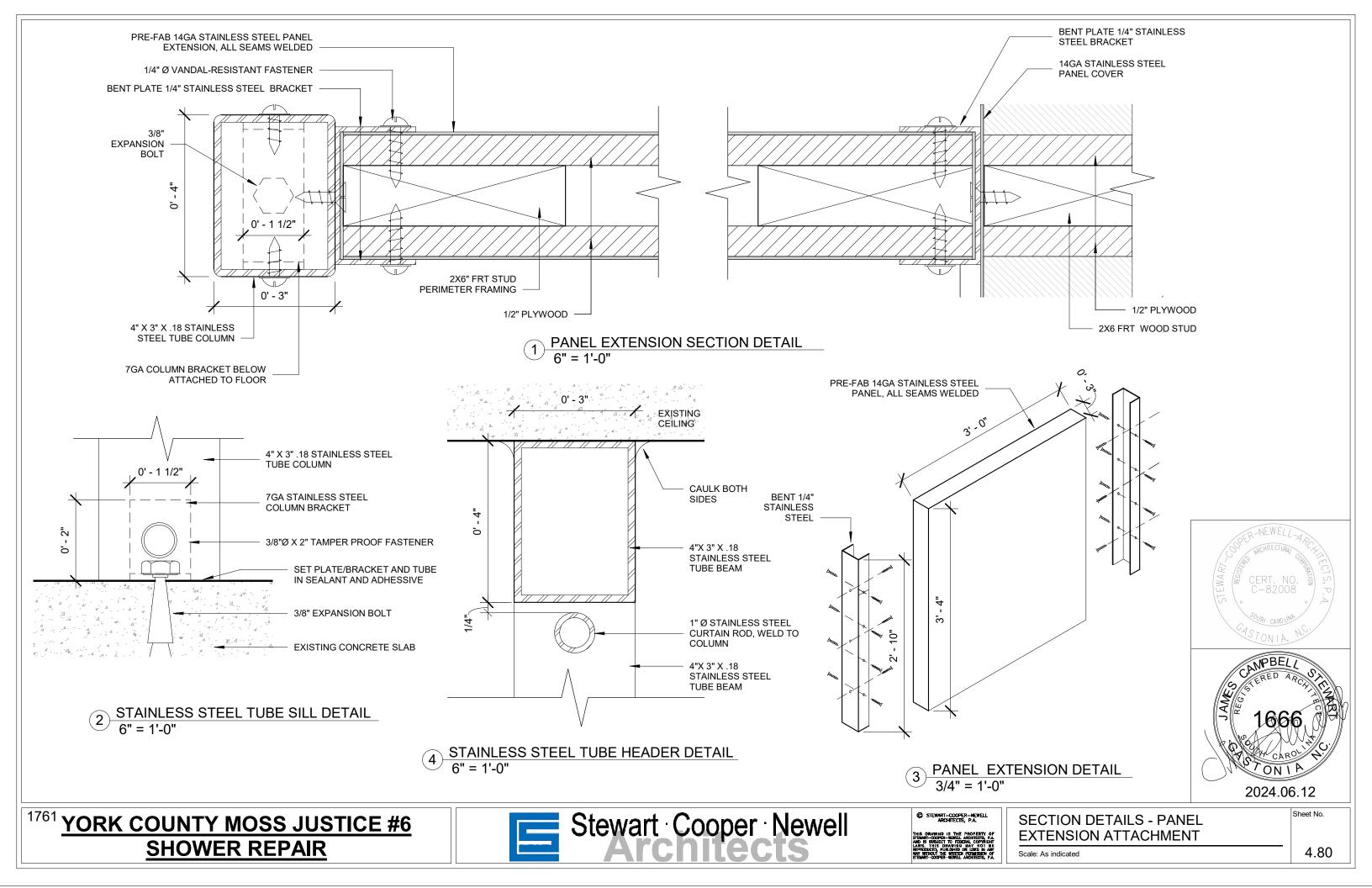
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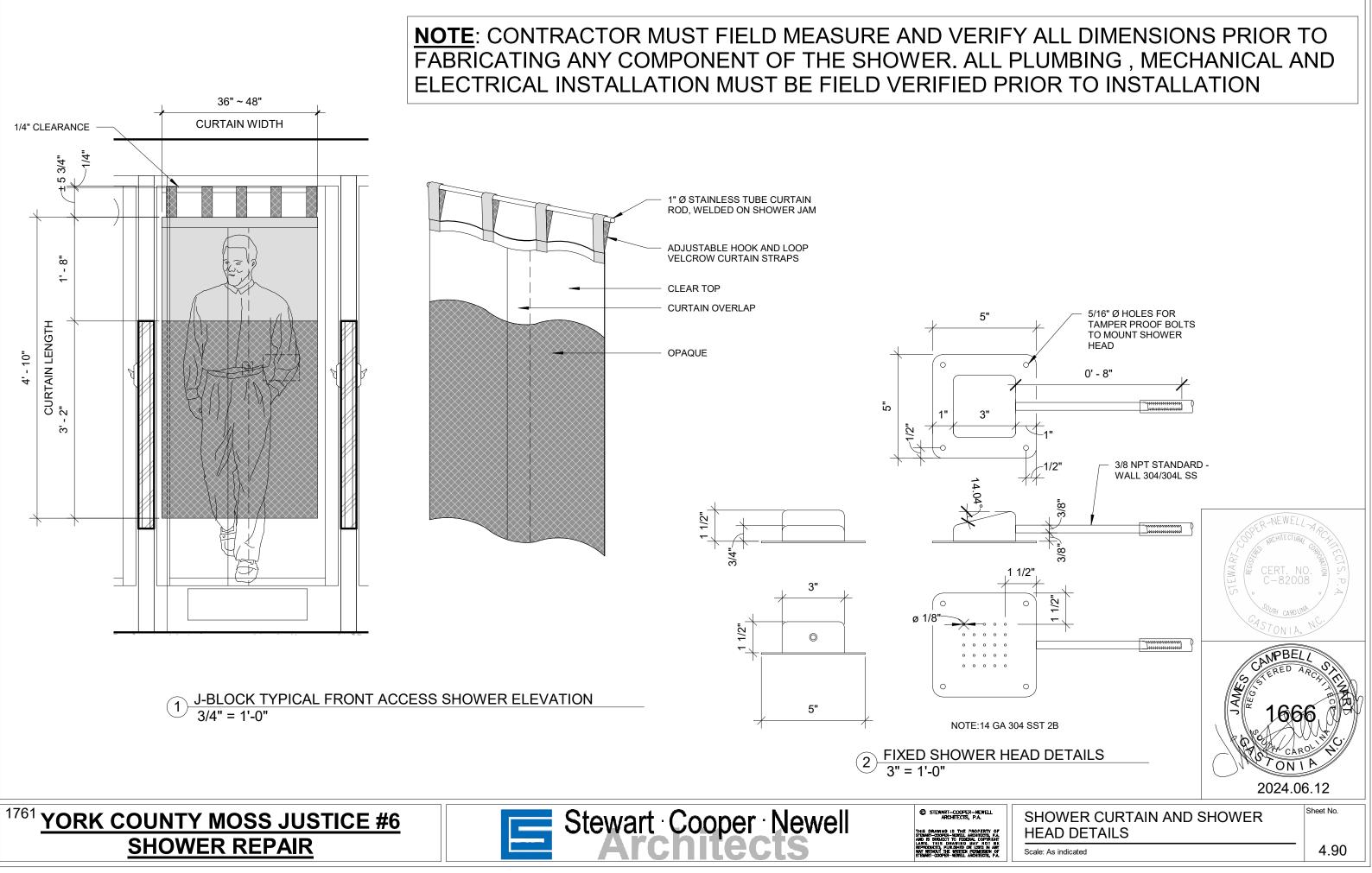
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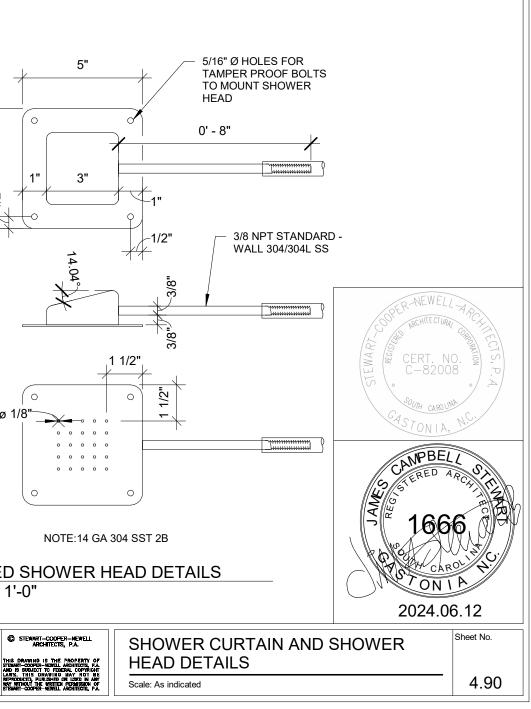
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SECTION 224601 - SECURITY SHOWERS PART 1 - GENERAL

1.1 SUMMARY

- Section Includes: А.
 - Stainless steel security showers (knock down). 1.
 - Custom stainless-steel ceiling and wall panels. 2.
 - Cut-outs, holes and other items to accommodate all items installed in the showers. 3.
 - Adjustable pneumatic valves. 4.
 - Custom stainless-steel showerheads. 5.
 - 6. Shower curtains.
 - Supports, wall mounting plates, brackets, security fasteners and accessories. 7.
- Related Requirements: Β.
 - Coordinate all work with the mechanical, plumbing, fire protection and electrical with all 1. trades for a complete properly functioning project.

DEFINITIONS 1.2

- Accessible Service Space: Service area in secure space behind wall-mounted fixtures. Α.
- Back-Access Fixture: Security plumbing fixture designed to mount on wall sleeve built into В. wall or on wall, so installation and removal of fixture, piping, and other components are accessible only from service space behind wall.
- ACTION SUBMITTALS 1.3
- Product Data: A.
 - 1. Construction details, material descriptions, dimensions of individual components and profiles, and finishes for security plumbing fixtures.
 - 2. Rated capacities, operating characteristics, and furnished specialties and accessories.
- B. Samples of each component of shower piping system including pneumatic valve, push button and connecting lines.
- CLOSEOUT SUBMITTALS 1.4
- Maintenance Data: For security plumbing fixtures and components. А.
- MAINTENANCE MATERIAL SUBMITTALS 1.5
- Extra Stock Material: Furnish extra materials to Owner that match products installed and that A. are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Pneumatic Valves Provide **six** (6) of each type.
 - Pneumatic Valve Repair Kits: Provide six (6) of each type. 2.
 - Shower Heads Provide four (4). 3.

¹⁷⁶¹ YORK COUNTY MOSS JUSTICE #6

SHOWER REPAIR

4. Provide three (3) sets of Torx security fastener tools for each size of fastener used on the project. Provide one (1) box for each size of Torx security fastener used.

PART 2 - PRODUCTS

- STAINLESS STEEL SHOWERS 2.0
- Showers Stainless steel, Back-access, Cabinet, Standard and Accessible A.
 - Project Description: This project involves the demolition of the following showers, and 1. the installation of new replacement stainless steel showers or recovering the existing showers in I-Unit with stainless steel as follows:
 - I-Unit Oversized showers approximately 5'-0"x 5'-0" +/a. 1st Floor – Four (4) showers, fully ADA accessible. 2^{nd} Floor – Four (4) showers. Total showers in I-Unit Eight (8).
 - J-Unit Standard Cabinet Showers as detailed. b 1st Floor – Three (3) Standard Showers. One (1) Handicapped Shower - custom fabricated. 2nd Floor – Five (5) Standard Showers. Total Showers in J-Unit Nine (9)
 - Total Number of Showers to be Replaced = Seventeen (17)

SECURITY SHOWERS

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SECURITY SHOWERS

Stewart Cooper Newell

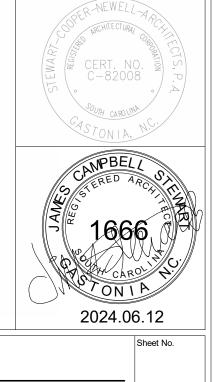


- SOURCE LIMITATIONS 2.1
- Obtain each product type from a single manufacturer or as required by the drawings or A. specifications.
- Showers shall be knock-down or custom fabricated for oversize showers. В. PERFORMANCE REQUIREMENTS 2.2
- Comply with ASME A112.19.3/CSA B45.4 for stainless steel plumbing fixtures. Α.
- Comply with ASME A112.18.1/CSA B125.1 for plumbing supply fittings. В.
- Comply with ASME A112.18.2/CSA B125.2 for plumbing waste fittings. C.
- Comply with ASME A112.6.1M for plumbing fixture supports. D.
- Comply with ICC A117.1 for ADA-compliant, accessible plumbing fixtures and installation. E.
- STAINLESS STEEL SHOWERS 2.3
- Showers Stainless Steel, Back-access, Cabinet, Standard, and Accessible. A. Manufacturers: subject to compliance with requirements, provide products by one of the 1.
 - following:
 - a. Willoughby Industries
 - Acorn Engineering Company b.
 - 2. Fixture:
 - Material: 14-gauge, Type 304 stainless steel, seamless welded construction. a.
 - Finish: Satin polished finish on exposed surfaces. b.
 - Type and Configuration: cabinet type or custom type with floor, walls, top and c. privacy panel wall extension between cabinet units.
 - Provide cut-outs and holes for light fixtures, sprinklers, soap dish, shower heads, d pneumatic valve push button control, and perforations for exhaust.
 - Provide new stainless-steel front access panels above all showers. Remove the old painted panels.
 - Provide shower rods welded to jamb of openings for shower curtains as detailed in f. the drawings.
 - Provide shower curtains as detailed for each shower and privacy cubicle. Provide a g. second set for each shower and privacy cubicle as owners replacement stock.
 - Water supply valves shall be brass only pneumatic, push-button, singleh. temperature, fully adjustable metering valves. Valves shall be equal to Bradley S67-506 complete with push button assembly S45-1713 and PEX or white poly tubing R68-600008 plus bushing and plugs. PLASTIC VALVES WILL NOT BE ALLOWED.
 - Shower head shall be stainless steel, ceiling mounted, custom fabricated by: i. Alert Metal Works, Inc 105 Yates Street
 - Dallas, NC
 - Steven Lingerfelt 704-922-3152
 - Manufacturer of Shower Components shall precut the ceiling opening for the custom fabricated shower head. One shower head will be furnished for fit and fabrication.
 - Soap dish: recessed, stainless steel for each shower. k.
 - Optional features: where indicated, provide ADA compliant and ligature resistant. 1.
 - Provide 1/2" Jenkins Brass Ball Valves cut off for each shower with a mounting m. clamp or bracket.
 - Provide a galvanized wall mounting plate for each pneumatic valve with wall n. anchoring hardware.
 - Mounting: bolts through wall sleeve into accessible service spaces. 0.
 - Wall sleeve: galvanized steel frame of dimensions required to match fixture. p.
 - See drawings for complete detail of components to be provided and installed. 3.

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SPECIFICATIONS



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

5.10

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- MANUFACTURERS AND PRODUCTS 2.4
 - Manufacturers and products of equal quality may be considered by the Owner. A.
 - Substitution must be received 10 days prior to the bid date. B.
 - C. Custom components shall be manufactured and supplied as detailed.
- PART 3 EXECUTION
- 3.1 EXAMINATION
 - A. Examine roughing-in for water supply and sanitary drainage and vent piping systems to verify actual locations of piping connections before fixture installation.
 - В. Examine walls and floors for suitable conditions where showers will be installed.
 - Proceed with installation only after unsatisfactory conditions have been corrected. C.
- FABRICATION AND INSTALLATION 3.2
 - A. Custom fabricated showers to be installed over existing shower surfaces. Clean existing coated surfaces of all residue and rough surfaces by sanding.
 - Prime exposed metal surfaces. Locate existing screw locations and plan to install new security В. screws in the same lines. This is required at ceilings and wall panels.
 - C. After the ceilings and walls are cleaned and inspected, apply a heavy layer of Sika Adhesive over the entire surfaces where Stainless-Steel Ceiling and Wall panels are to be installed. Use "Sikadur 31", Hi-Mod Gel (1:1 Mix Ratio) structural epoxy paste adhesive or the type recommended by Sika. Support all panels until the bond is obtained.
 - Install tamper-proof security fasteners in the same line as the original security screws and in the D. quantity to assure proper anchorage of the new panels over the existing.
 - E. Install knock down security showers level and plumb.
 - F. Install back-access, stainless steel showers as follows:
 - 1. Install wall sleeve in wall if indicated and cut out existing masonry as indicated on drawings.
 - 2. Install shower, as indicated, with access from accessible service space.
 - 3. Extend supply piping from existing service space to shower.
 - 4. Install soil and waste piping from shower and extend into service space or into existing floor drain as required. Install new stainless-steel ligature-resistant floor drains at each location.
 - 5. Install fixture trap in service space instead of below fixture drain.
 - Install fixture outlets with gasket seals. G.
 - H. Install fixtures designated "accessible" in accordance with ICC A117.1 for heights, dimensions, and clearances. All components and accessories shall be ligature resistant.
 - Install protective shielding pipe covers and enclosures on exposed supplies and waste piping of I. accessible fixtures. Comply with requirements in "Plumbing Piping Insulation."
 - Seal joints between fixtures, floors, and walls using sanitary-type, one-part, pick-resistant, J. mildew-resistant sealant. Match sealant color to fixture color. Comply with sealant requirements specified in "Joint Sealants".
 - Install wall flanges or escutcheons at piping wall penetrations in exposed, finished locations. Κ. Use deep-pattern escutcheons if required to conceal protruding fittings.
 - Provide ligature-resistant grab bars and shower curtain rods. L.
 - All exposed screws and bolts shall be stainless steel Torx tamper resistant security fasteners. M.
- PIPING CONNECTIONS 3.3
 - A. Connect fixtures with water supplies, stops, and risers and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.
 - Comply with requirements for water piping, as required, in Building Code, "Domestic Water B. Piping".
 - Comply with requirements for soil and waste drainage piping as required in Building Code C. "Sanitary Waste and Vent Piping".

ADJUSTING 3.4

- Operate and adjust pneumatic valves and flow-control valves on fixtures. Replace damaged and A. malfunctioning fixtures, fittings, and controls.
- Adjust water pressure at fixtures to produce proper flow. B.
- CLEANING AND PROTECTION 3.5
 - After installing showers, inspect and replace damaged finishes. A. Clean showers and other fittings with manufacturers' recommended cleaning methods and B. materials.
 - C. Provide protective covering for installed fixtures and fittings.
- Do not allow use of fixtures for temporary facilities unless approved in writing by Owner. D. END OF SECTION 224601

SECURITY SHOWERS

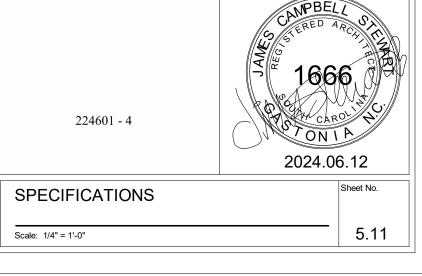
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SECURITY SHOWERS

¹⁷⁶¹ YORK COUNTY MOSS JUSTICE #6 **SHOWER REPAIR**







10/23

PRODUCT DATA FOR STAINLESS STEEL PANEL INSTALLATION

BASIS OF DESIGN: Sikaflex®-11 FC.

Products of equal quality and performance must be submitted to the architect for approval.

One part advanced polyurethane, elastomeric sealant/adhesive

PRODUCT DESCRIPTION

Sikaflex[®]-11 FC is a one-component, gun-grade, adhesive and sealing compound of permanent elasticity. This dual-purpose material is based on a special moisture-cured polyurethane with an accelerated curing time that meets ASTM C920 Type S, Grade NS, Class 12.5, Use NT, I, M, G, A, O. and Federal Specification TT-S-00230C.

USES

As an elastic adhesive for:

- Cover plates, gaskets and coverings.
- Light weight construction materials.
- Wood or metal and door frames.

As an elastic joint sealer for:

- Air ducts.
- Gaskets in openings in walls for ducts.
- Reservoirs or water retaining structures.
- Stainless Steel Panel fabrication.
- Screwed lap joints.

PRODUCT INFORMATION (Follow

Manufacturers directions completely)

Packaging	10.1 fl.oz. (.300 ml) plastic cartridges, 24/case. 20 fl.oz. (600 ml) uni-pac sausages, 20/case.
Color	White

CHARACTERISTICS / ADVANTAGES

- Excellent adhesion on all cement-based materials, brick, ceramics, glass, metals, wood, epoxy, polyester and acrylic resin.
- Fast cure rate.
- Good weathering and water resistance.
- Non-corrosive.
- Can be painted over with water, oil, and rubber-based paints. (Preliminary tests recommended).
- High durability.
- Can be used in tamper resistant joints

Storage Conditions

Store at 40-95 °F (4-35 °C).

Volatile organic compound (VOC) con-28.5 g/L tent

TECHNICAL INFORMATION

Shore A Hardness	40–45	(73 °F (23 °C) and 50 % R.H.) (ASTM D-2240)		
Tensile Strength	225 psi	(73 °F (23 °C) and 50 % R.H.) (ASTM D-412)		
Elongation at Break	600 %	(73 °F (23 °C) and 50 % R.H.) (ASTM D-412)		
Elastic Recovery	>90 %	(73 °F (23 °C) and 50 % R.H.) (ASTM C-719)		
Lap Shear Strength	165 psi	(73 °F (23 °C) and 50 % R.H.)(ASTM D-1002 modified, glasssubstrate)		
Chemical Resistance	vegetable oils, fats, fue	Good resistance to water, weak acids, weak alkalis, sewerage, mineral oils, vegetable oils, fats, fuels. (Not resistant to organic solvents, paint thinner, strong acids, strong alkalis). Consult Technical Service for specific data.		
Service Temperature	-40 °F to 170 °F			
Resistance to Weathering	Excellent			

APPLICATION INFORMATION

Coverage	Width/Depth	1/4''	3/8''	1/2''
	1/4"	24.3 16.2 12.1		6.1
	3/8"		10.8	
	1/2"		8.1	
	3/4"	8.1	5.4	4.0
	1"			3.0
	1.25"			2.4
	1.5"			2.0
Product Temperature				
Ambient Air Temperature	40 °F to 100 °F.			
	Sealant should be installed when joint is at mid-range of its ar movement.			nge of its anticipated
Curing Rate	Tack-free Time	(TT-S-00230C)	1 to 2 hours	depending on climate
	Final Cure		3 to 5 days	

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Clean all surfaces. Joint walls must be sound, clean, dry, frost-free, and free of oil and grease. Curing compound residues and any other foreign matter must be thoroughly removed. A roughened surface will also enhance bond.

LOCATE ALL EXISTING SECURITY FASTENERS. FOLLOW SAME LINE WITH NEW SECURITY FASTENERS.

Priming

Priming is not usually necessary for anodized aluminum, steel, non-absorbent materials such as

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glass, ceramics, stoneware and tiles. Most substrates only require priming if testing indicates a need or where sealant will be subjected to water immersion after cure. Consult Technical Service at 1-800-933-SIKA for additional information on priming.

APPLICATION METHOD / TOOLS

Recommended application temperatures: 40–100 °F.For cold weather application, condition material to 65–75 °F before using. Place nozzle of gun into bottom of the joint and fill entire joint or surface area where S.S. Panels are to be installed. Spread adhesive evenly over entire area where panels are to be installed. Keep the nozzle in the sealant:

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STEEL PANEL INSTALLATION SPECS

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

5.12

Sheet No.

continue on with a steady flow of adhesive sealant preceding the nozzle to avoid air entrapment. Avoid overlapping of sealant to eliminate entrapment of air.

SECURE S.S. PANELS TO EXISTING AREA. SHORE PANELS IN PLACE AND INSTALL SECURITY FASTENERS.

Tooling and Finishing

Tool as required. Joint dimension should allow for 1/4 inch minimum and 1/2 inch maximum thickness for sealant. Proper design is 2:1 width to depth ratio.

Removal

In case of spills of leaks, wear suitable protective equipment, contain spill, collect with absorbent material, and transfer to suitable container. Ventilate area. Avoid contact. Dispose of in accordance with current, applicable local, state, and federal regulations. In case of emergency, call chemtrec 1-800-424-9300.

LIMITATIONS

- Allow 5 day cure at standard conditions when using Sikaflex[®]-11 FC in total water immersion situations and prior to painting.
- Avoid exposure to high levels of chlorine. (Maximum level is 5ppm).
- Maximum depth of sealant must not exceed 1/2 in.; minimum depth is 1/4 in.
- Maximum expansion and contraction should not exceed 12.5 % of average joint width.
- Avoid contact with alcohol and other solvent cleaners during cure.
- Do not apply when moisture-vapor-transmission condition exists from the substrate as this can cause bubbling within the sealant.
- Use opened cartridges the same day.
- When applying sealant, avoid air-entrapment.
- Since system is moisture-cured, permit sufficient exposure to air.
- White color tends to yellow slightly when exposed to ultraviolet rays.
- The ultimate performance of Sikaflex[®]-11 FC depends on proper application, good design and proper preparation of joint surfaces.
- Not for use in expansion joints.
- Heavier substrates may require additional support during the cure period.
- Do not use in contact with bituminous/asphaltic materials.

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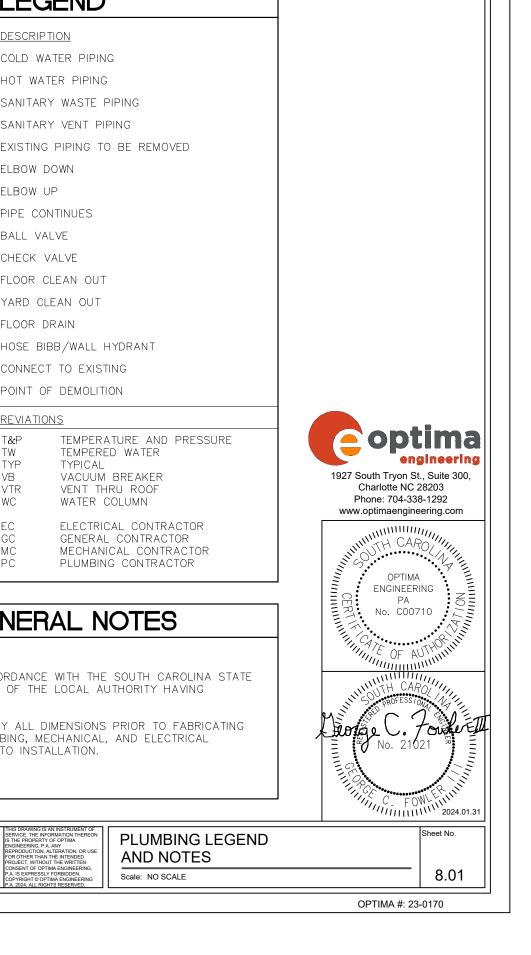
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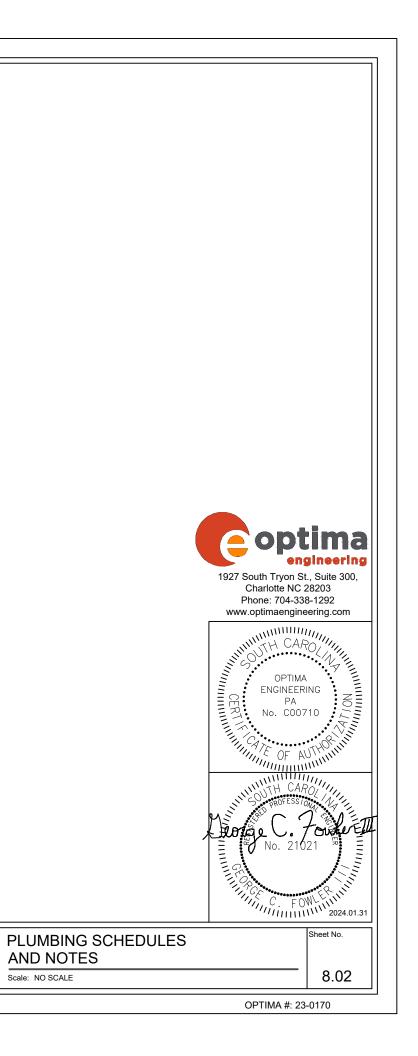


MPBE.

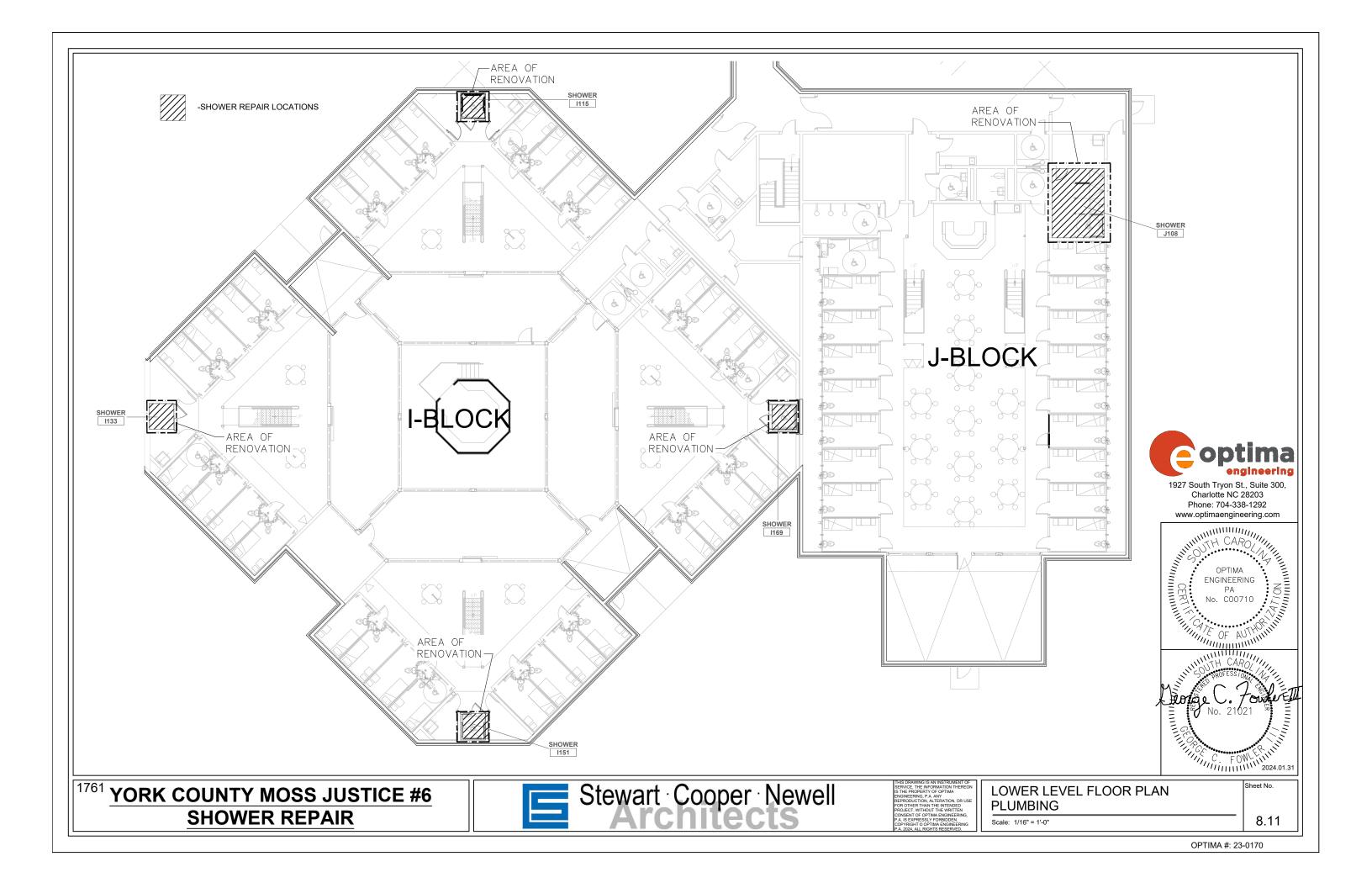
PLUMBING MATERIALS AND NOTES	PLUMBI	NG LEGEND
OMESTIC WATER PIPING:	EXISTING PIPING NEW PIPING AB	BBR. DESCRIPTION
DOMESTIC WATER PIPING AND JOINTS ABOVE GRADE: PROVIDE TYPE 'L' HARD DRAWN SEAMLESS		CW COLD WATER PIPI
COPPER TUBING (ASTM B 88) AND CAST COPPER ALLOY FITTINGS (ASME B16.18). JOINTS 2" AND	——————————————————————————————————————	
SMALLER SHALL BE LEAD FREE 95-5 TIN/SILVER SOLDER JOINTS (ASTM B 32), JOINTS 2½" AND LARGER SHALL BE BCUP SILVER/PHOSPHORUS/COPPER BRAZED JOINTS (AWS A5.8).	(=) (E)	
ALTERNATELY PRESS FITTINGS MAY BE USED FOR JOINTS. SEALING ELEMENTS FOR PRESS FITTINGS SHALL BE EPDM. SEALING ELEMENTS SHALL BE FACTORY INSTALLED. PRESS FITTINGS	(E)	
SHALL ALLOW IDENTIFICATION OF AN UNPRESSED FITTING DURING PRESSURE TESTING.	(E)	
2. STERILIZE THE DOMESTIC WATER SYSTEM IN ACCORDANCE WITH THE AMERICAN WATER WORKS		 ELBOW DOWN
ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.		- ELBOW UP
. INSULATE DOMESTIC WATER PIPING ABOVE GRADE (EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES) WITH GLASS FIBER INSULATION HAVING A VAPOR BARRIER AND JACKET. PIPE		 PIPE CONTINUES
INSULATIÓN SHALL HAVE A CONDUCTIVITY NOT EXCEEDING 0.27 BTUH × SQ. FT. FOLLOW	``````````````````````````````````````	 BALL VALVE
SCHEDULE BELOW: <u>SERVICE TYPE</u> <u>PIPE SIZES</u> INSULATION THICKNESS DOMESTIC HOT WATER & CIRCULATION <u>12</u> " – 11/4" 1"		CV CHECK VALVE
DOMESTIC HOT WATER & CIRCULATION 1/2" - 11/4" 1"		CO FLOOR CLEAN OU
DOMESTIC WATER PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES ARE REQUIRED TO MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF		CO YARD CLEAN OU
50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD AND SHALL BE PLENUM RATED.		FD FLOOR DRAIN
PROVIDE PVC JACKET FOR EXPOSED PIPING IN MECHANICAL ROOMS. INSULATION SHALL BE CONTINUOUS THROUGH ALL WALLS AND AT ALL HANGERS. PROVIDE GALVANIZED STEEL SHIELD		HB HOSE BIBB/WALL
BETWEEN PIPE HANGER AND INSULATION.		TE CONNECT TO EXI
5. PROVIDE TWO-PIECE, BRONZE OR BRASS BODY, FULL PORT, 600 PSI WOG, BALL TYPE SHUT-OFF VALVES WITH BLOW-OUT PROOF STEMS AND ADJUSTABLE PACKING GLANDS. VALVES SHALL BE		POINT OF DEMOL
LEAD FREE PER NSF 61, ANNEX G REQUIREMENTS. INSTALL VALVES IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS.		
		NAL ABBREVIATIONS
. PROTECT COPPER PIPING AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON TRAPEZE HANGERS WITH OTHER PIPING, PROVIDE A PERMANENT ELECTROLYTIC ISOLATION MATERIAL TO PREVENT CONTACT WITH DISSIMILAR OTHER METALS.	AFF ABOVE FINISHED FLOOR BFF BELOW FINISHED FLOOR CONT CONTINUATION DN DOWN EX EXISTING	T&P TEMPEI TW TEMPEI TYP TYPICA VB VACUU VTR VENT
DOMESTIC WATER SUPPLY PIPING SHALL BE TESTED AND PROVED WATERTIGHT UNDER A WATER PRESSURE OF NO LESS THAN THE WORKING PRESSURE OF THE SYSTEM, OR AN AIR TEST OF NO LESS THAN ONE-HUNDRED (100) PSI. THIS PRESSURE SHALL BE HELD FOR AT LEAST FIFTEEN (15) MINUTES. WATER USED IN TESTING SHALL BE OBTAINED FROM A POTABLE SOURCE OF SUPPLY.	FFE FINISHED FLOOR ELEVATION GPM GALLONS PER MINUTE INV INVERT ELEVATION IW INDIRECT WASTE MH MOUNTING HEIGHT	EC ELECTI GC GENER MC MECHA
SANITARY WASTE / VENT PIPING:	PSI POUNDS PER SQUARE INCH	PC PLUMB
. SANITARY WASTE PIPING <u>BELOW</u> GRADE: PROVIDE SERVICE WEIGHT CAST IRON HUB AND SPIGOT		
PIPE (ASTM A 74) WITH COMPRESSION JOINTS (CISPI HSN) AND NEOPRENE GASKETS (ASTM C 564) OR NO-HUB PIPE AND FITTINGS (CISPI 301) WITH NEOPRENE GASKET/STAINLESS STEEL CLAMP JOINTS (HEAVY DUTY, ASTM C1540–15).	PLUMBING	GENERAL I
	GENERAL REQUIREMENTS:	
2. SANITARY WASTE/VENT PIPING <u>ABOVE</u> GRADE: PROVIDE SERVICE WEIGHT CAST IRON NO-HUB PIPE AND FITTINGS (CISPI 301) WITH NEOPRENE GASKET/STAINLESS STEEL CLAMP JOINTS (HEAVY DUTY, ASTM C1540-15).	 PLUMBING WORK SHALL BE INSTALLED PLUMBING CODE AND WITH THE REQUIN JURISDICTION. 	IN ACCORDANCE WITH TH REMENTS OF THE LOCAL
3. SLOPE SANITARY WASTE PIPING AT 1/4" PER FOOT MINIMUM FOR PIPING 21/2" AND SMALLER AND 1/6" PER FOOT MINIMUM FOR PIPING 3" AND LARGER UNLESS NOTED OTHERWISE.	2. CONTRACTOR MUST FIELD MEASURE AN ANY COMPONENT OF THE SHOWER. A INSTALLATION MUST BE FIELD VERIFIED	LL PLUMBING, MECHANIC
. SANITARY WASTE AND VENT SYSTEMS SHALL BE TESTED AND PROVED WATER TIGHT UNDER A HEAD PRESSURE OF NO LESS THAN 10 FT. THIS PRESSURE SHALL BE HELD FOR A PERIOD OF NO LESS THAN 15 MINUTES.	INSTALLATION MOST BE FIELD VENITED	PRIOR TO INSTALLATION
YORK COUNTY MOSS JUSTICE #6	wart Cooper Nowall	THIS DRAWING IS AN INSTRUMENT O SERVICE. THE INFORMATION THERE IS THE PROPERTY OF OPTIMA ENGINEERING, P.A. ANY
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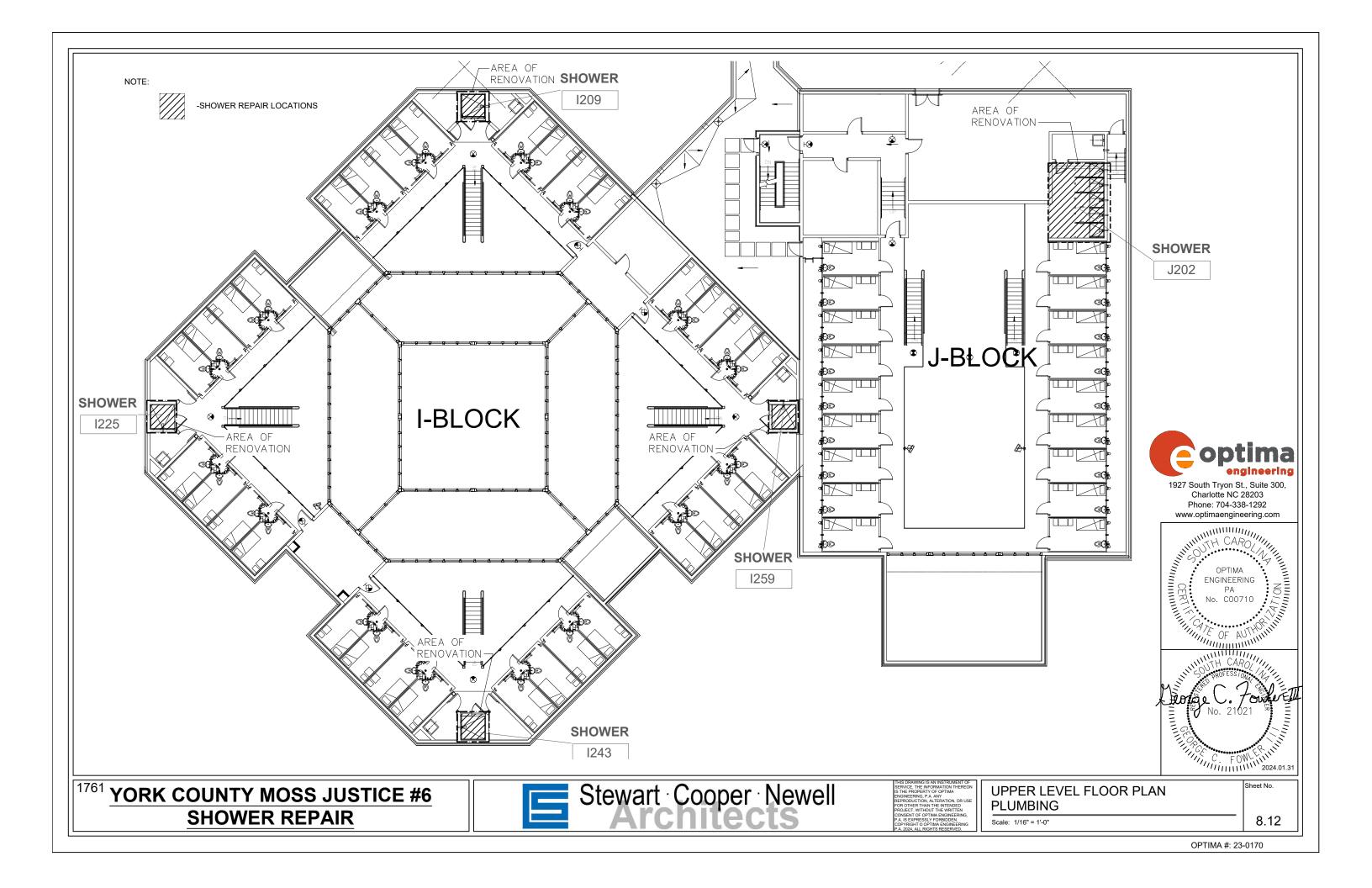


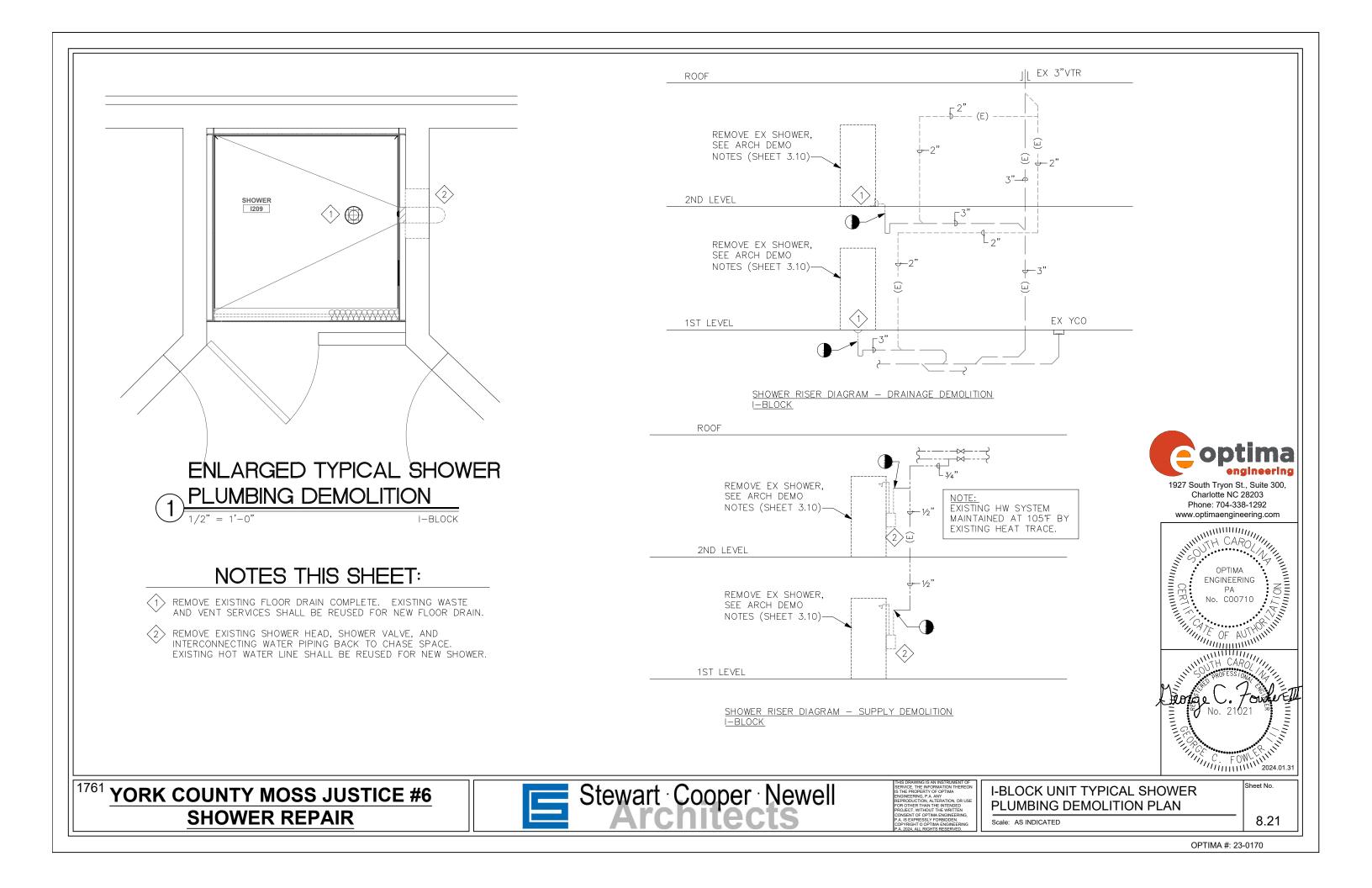
	PLUMBING FIXTURE AND SPECIALTIES SCHEDULE						
SYM.	DESCRIPTION	1			(IN.)	SPECIFICATION	REMARKS
<u>P6</u>	CUSTOM STAINLESS STEEL SHOWER ENCLOSURE, DEXOTEX FLOOR, PUSH-BUTTON OPERATOR, SHOWER HEAD, SHOWER VALVE	2"	11/2"		⊓w 1⁄2" (TW)	SHOWER ENCLOSURE AND SYSTEM: CUSTOM BY G.C. SEE SPEC ON SHEET 5.10. DRAIN: <u>FD2</u>	SEE NOTE 1 BELOW.
<u>P6A</u>	CUSTOM ADA COMPLIANT STAINLESS STEEL SHOWER ENCLOSURE, DEXOTEX FLOOR, PUSH-BUTTON OPERATOR, SHOWER HEAD, SHOWER VALVE	2"	11⁄2"	_	1⁄2" (TW)	SHOWER ENCLOSURE AND SYSTEM: CUSTOM BY G.C. SEE SPEC ON SHEET 5.10. DRAIN: <u>FD1</u>	SEE NOTE 1 BELOW.
<u>P6B</u>	36" x 36" STAINLESS STEEL SHOWER ENCLOSURE, RECESSED SOAP DISH, VANDAL RESISTANT SHOWER HEAD, FRONT ACCESS	2"	11⁄2"	_	1⁄2" (TW)	SHOWER ENCLOSURE AND SYSTEM: CUSTOM BY G.C. SEE SPEC ON SHEET 5.10. DRAIN: INTEGRAL TO SHOWER STALL	PROVIDE SHOWER STALL WITH INTEGRAL P-TRAP AT DRAIN WHERE INDICATED ON PLUMBING PLANS. SEE NOTE 1 BELOW.
<u>FD1</u>	FLOOR DRAIN, CAST IRON BODY WITH DEXOTEX FLANGE, ROUND ADJUSTABLE NICKEL BRONZE TOP	SEE DWG		_	_	DRAIN: ZURN ZN-400-5BL-VP STRAINER: 5" DIAMETER, TYPE BL P-TRAP: DEEP SEAL (MATCH DRAIN SIZE)	-
<u>FD2</u>	SCUPPER SHOWER DRAIN, CAST IRON BODY WITH 90' OUTLET AND VANDAL PROOF TOP	SEE DWG		-	_	DRAIN: ZURN ZN-189-VP-90 STRAINER: FLUSH TYPE STRAINER P-TRAP: DEEP SEAL (MATCH DRAIN SIZE)	-
THE C MADE HEREIN	BY ANY OF THE MANUFACTURER'S LIS N.	TED.	NO	PRIVA	ATE L	HICH MOST CLOSELY MATCHES THE SPECIFIED PROD ABELED MATERIALS WILL BE ACCEPTED AS EQUALS PROVIDED BY A SINGLE MANUFACTURER.	
MIXING	S/SHOWER VALVES S, CARRIERS, CLEANOUTS		BRA	DLEY	, LEO	NARD, SYMMONS, LAWLER IITH, WADE, JOSAM, WATTS	
⁶¹ Y(⁵¹ YORK COUNTY MOSS JUSTICE #6 SHOWER REPAIR Stewart · Cooper · Newe						

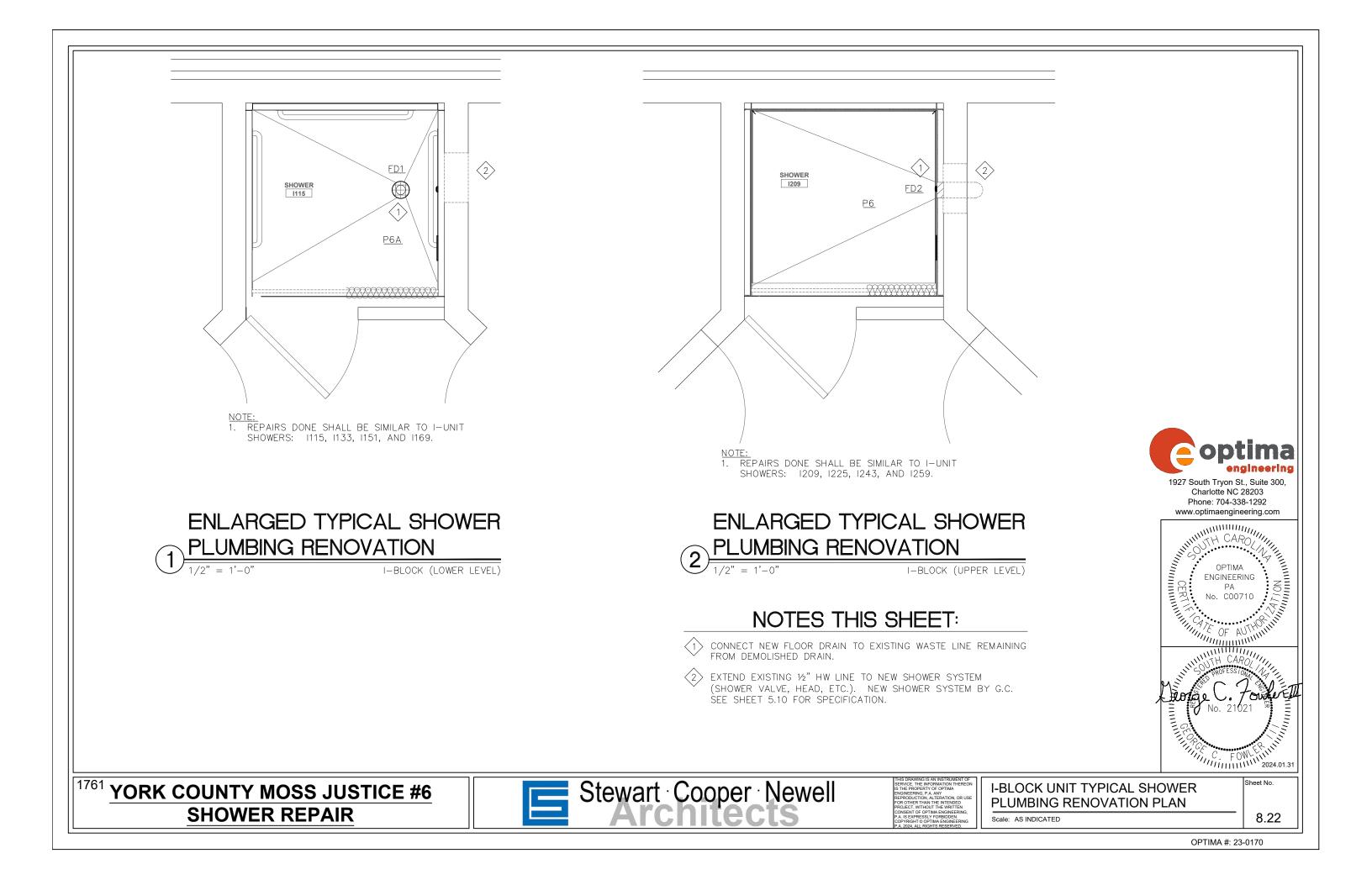


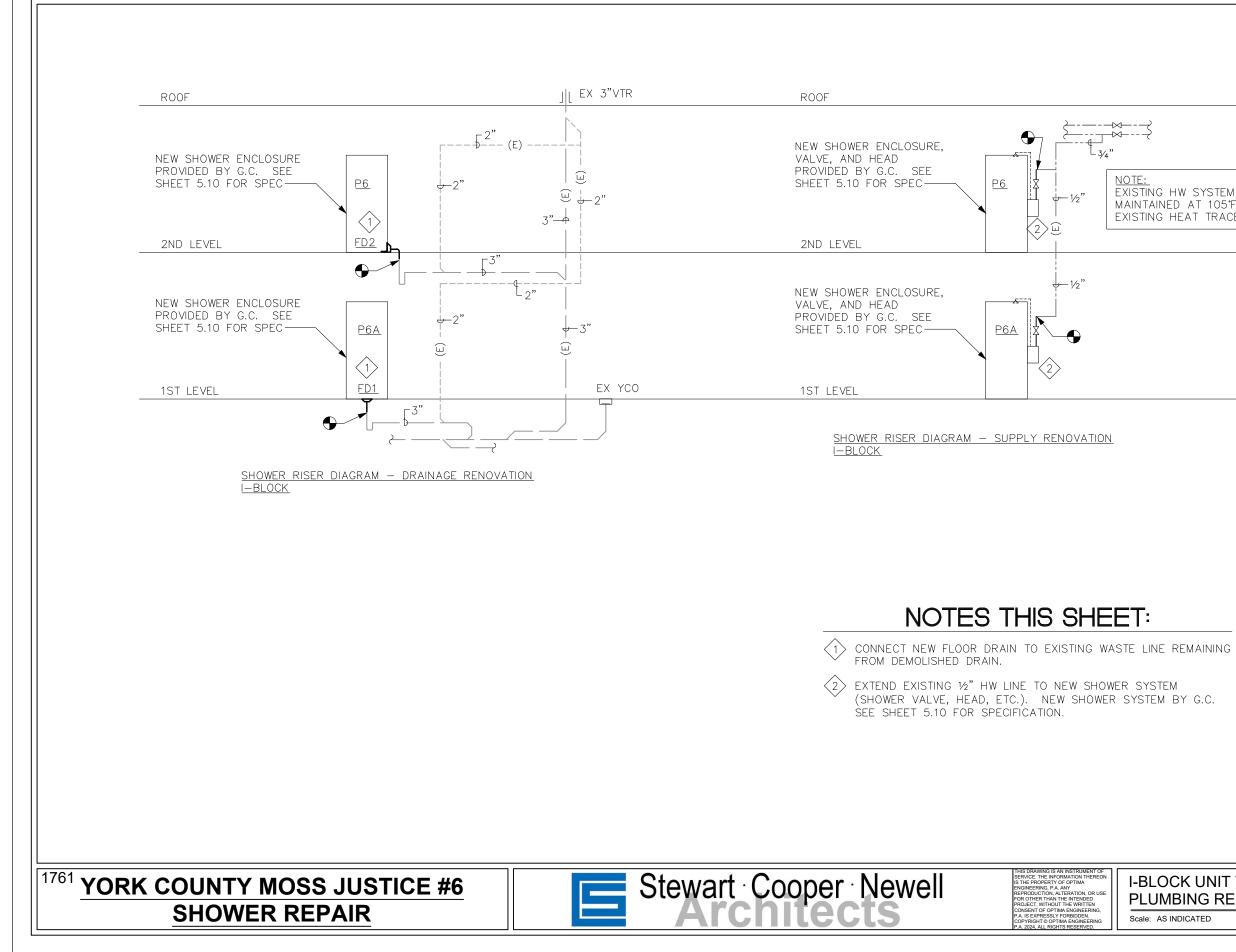
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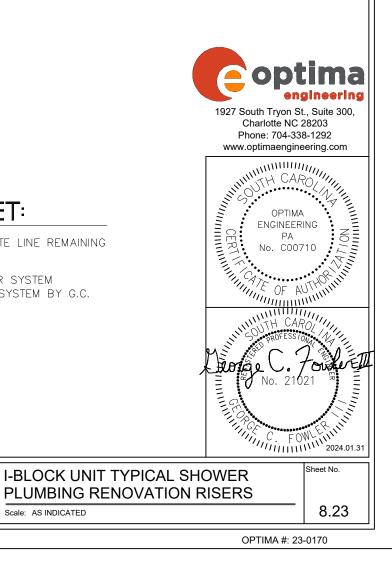


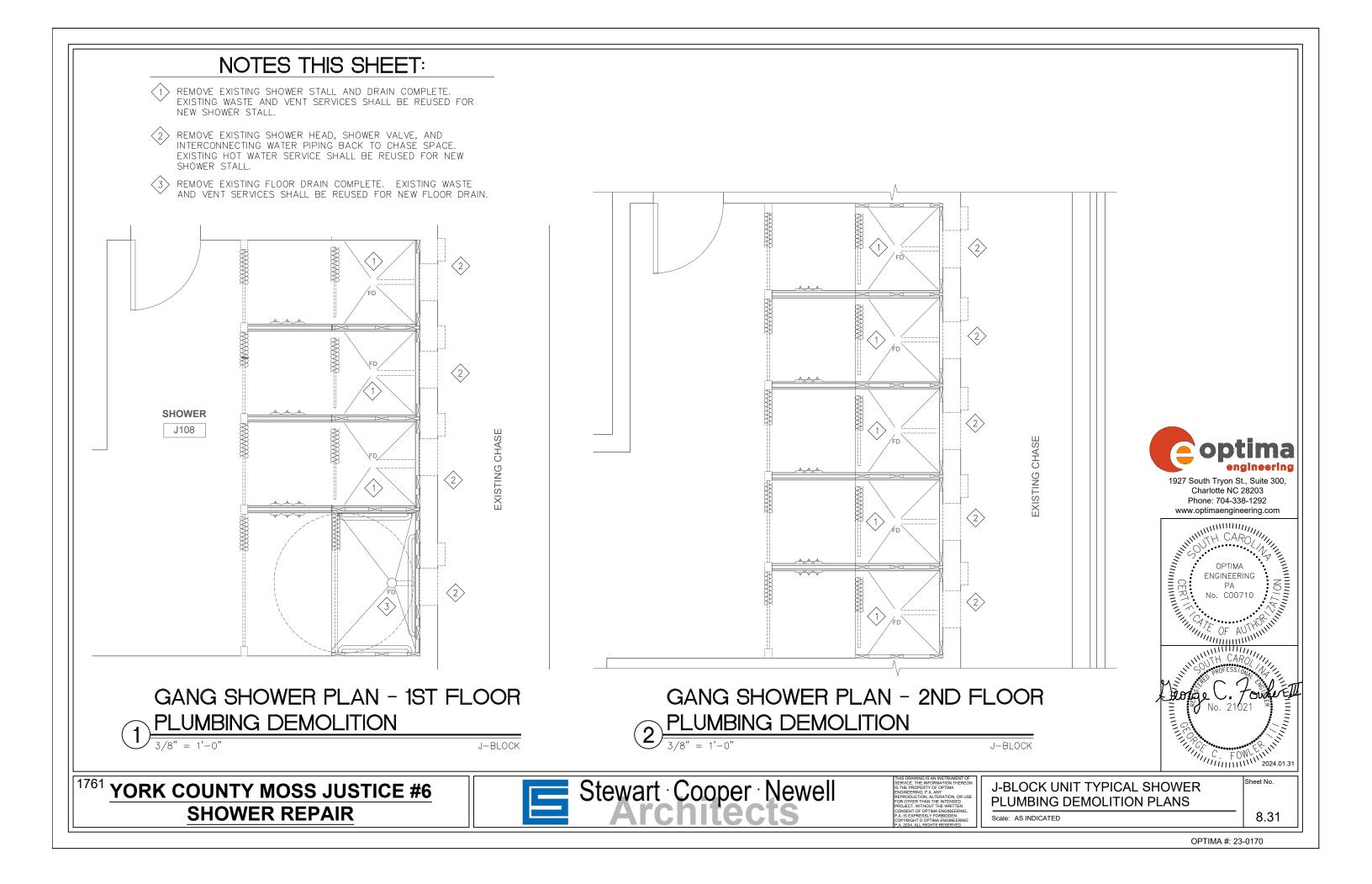


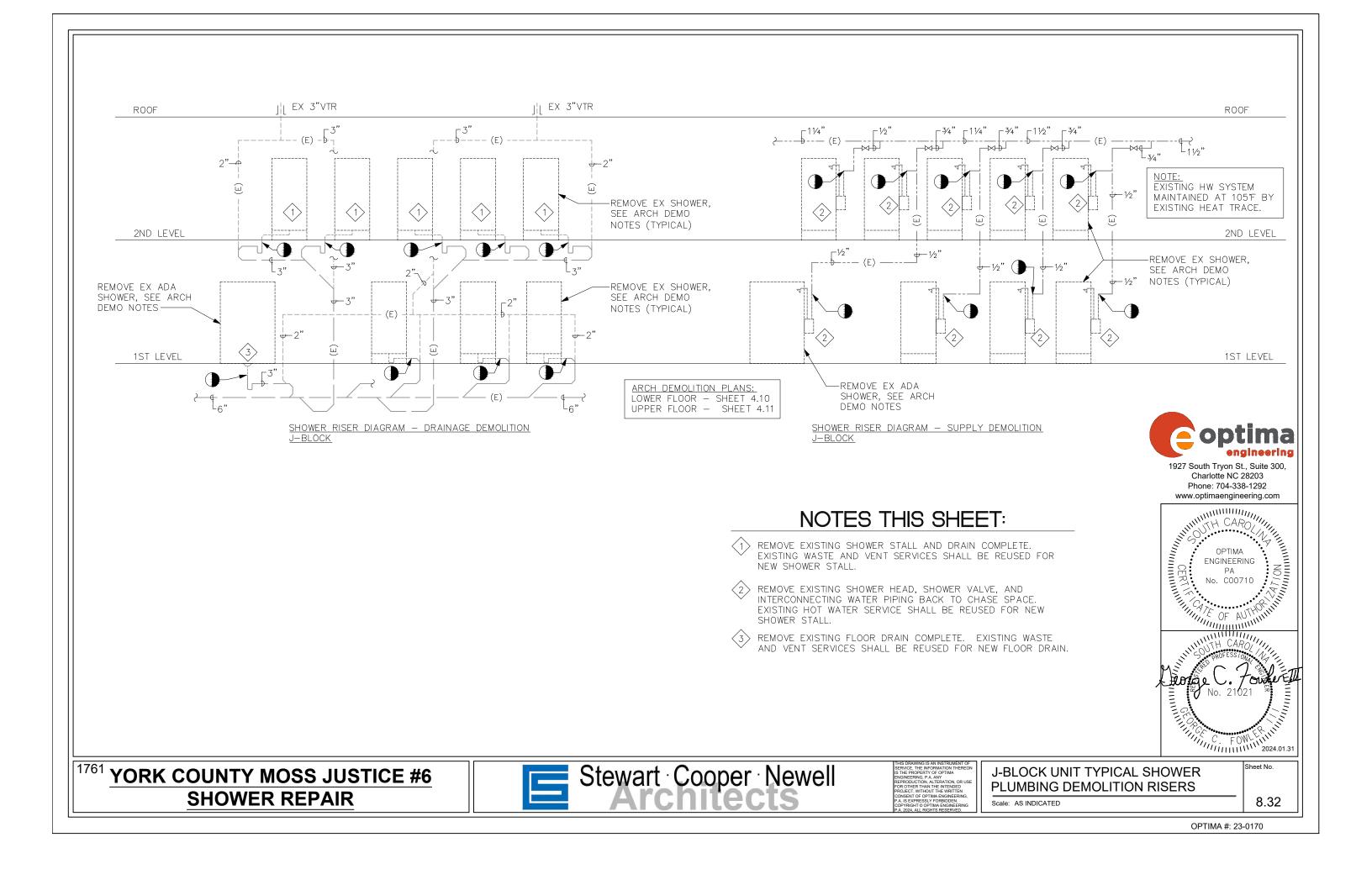


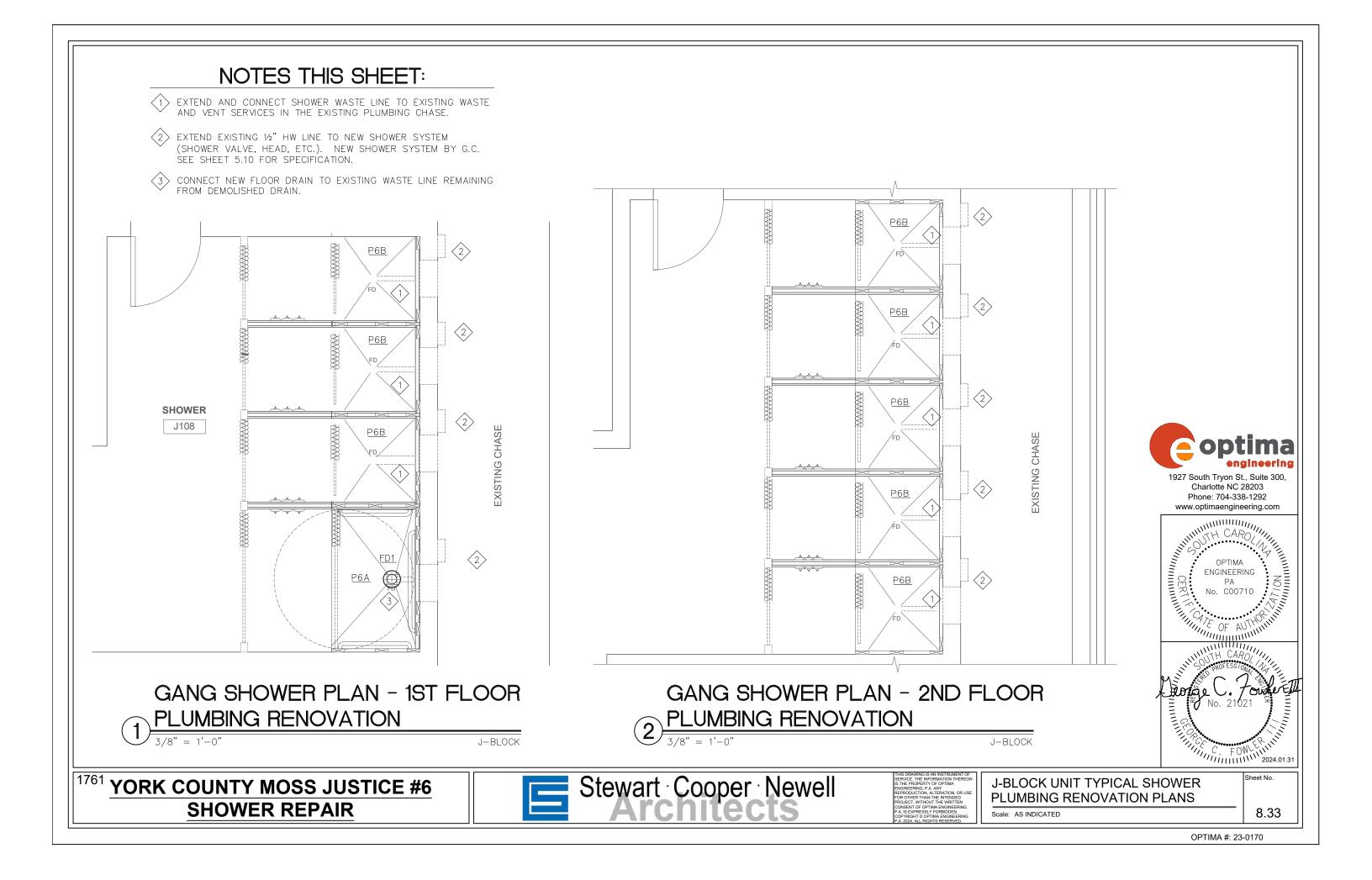


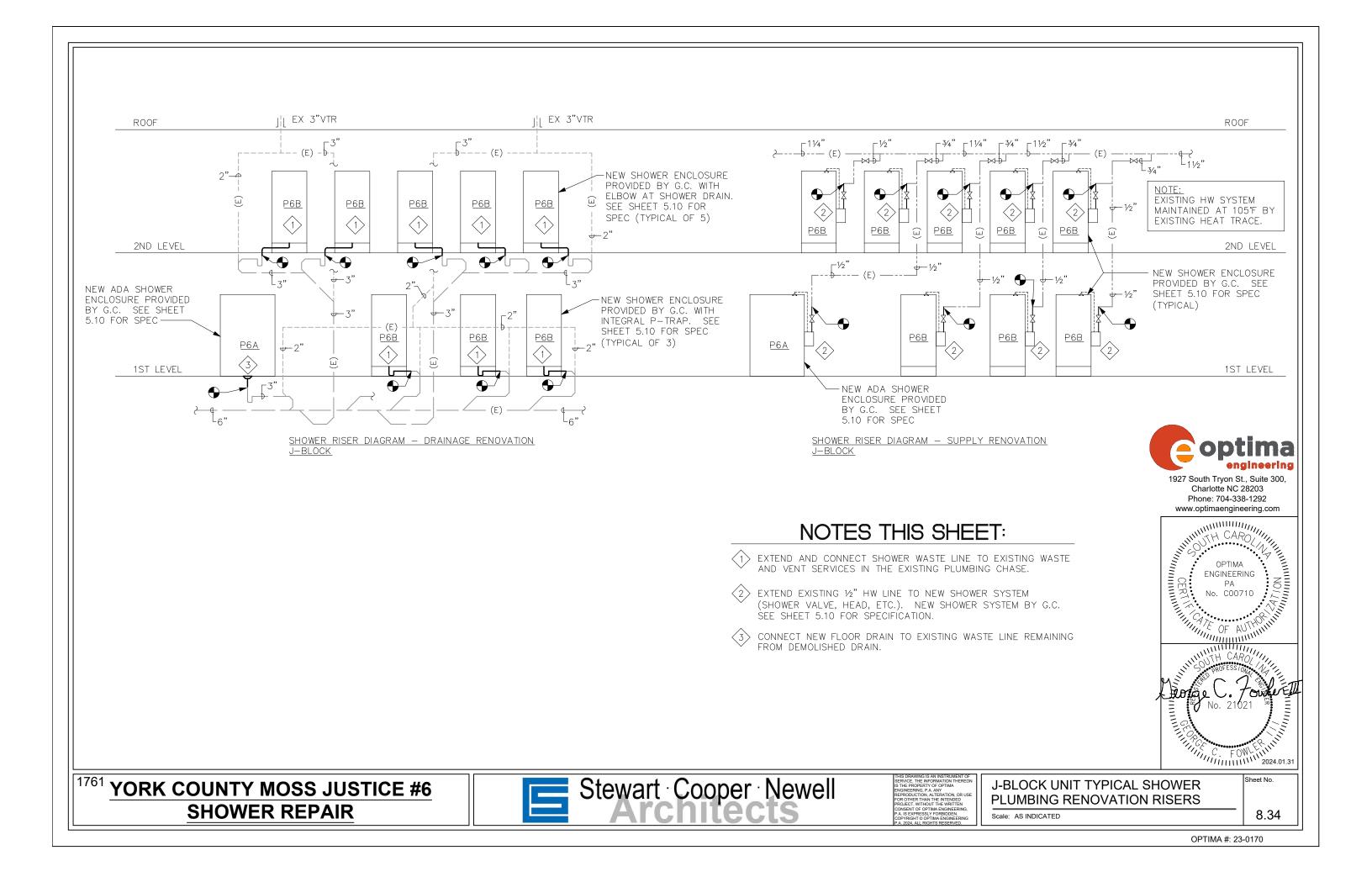
EXISTING HW SYSTEM MAINTAINED AT 105°F BY EXISTING HEAT TRACE.

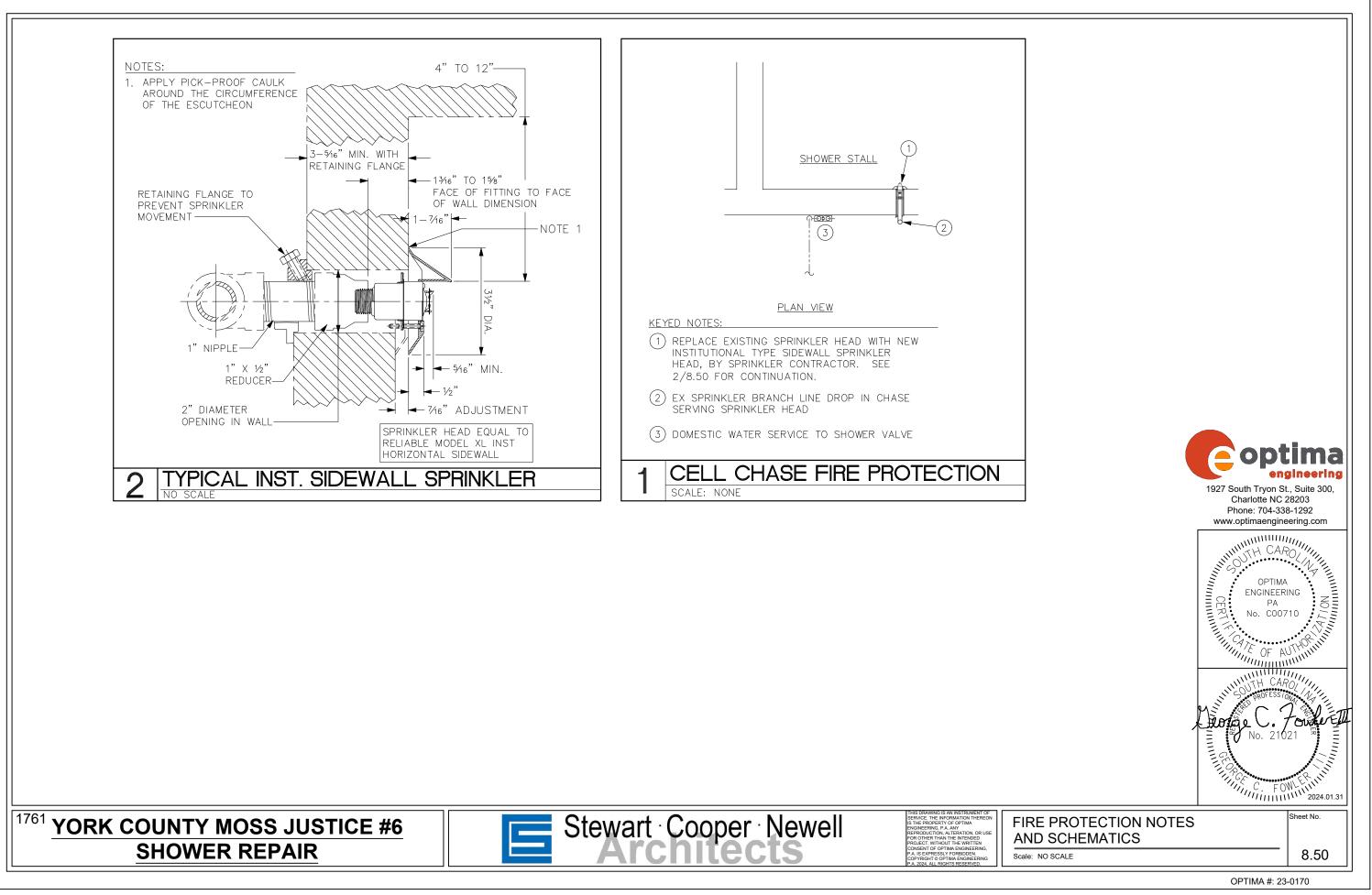




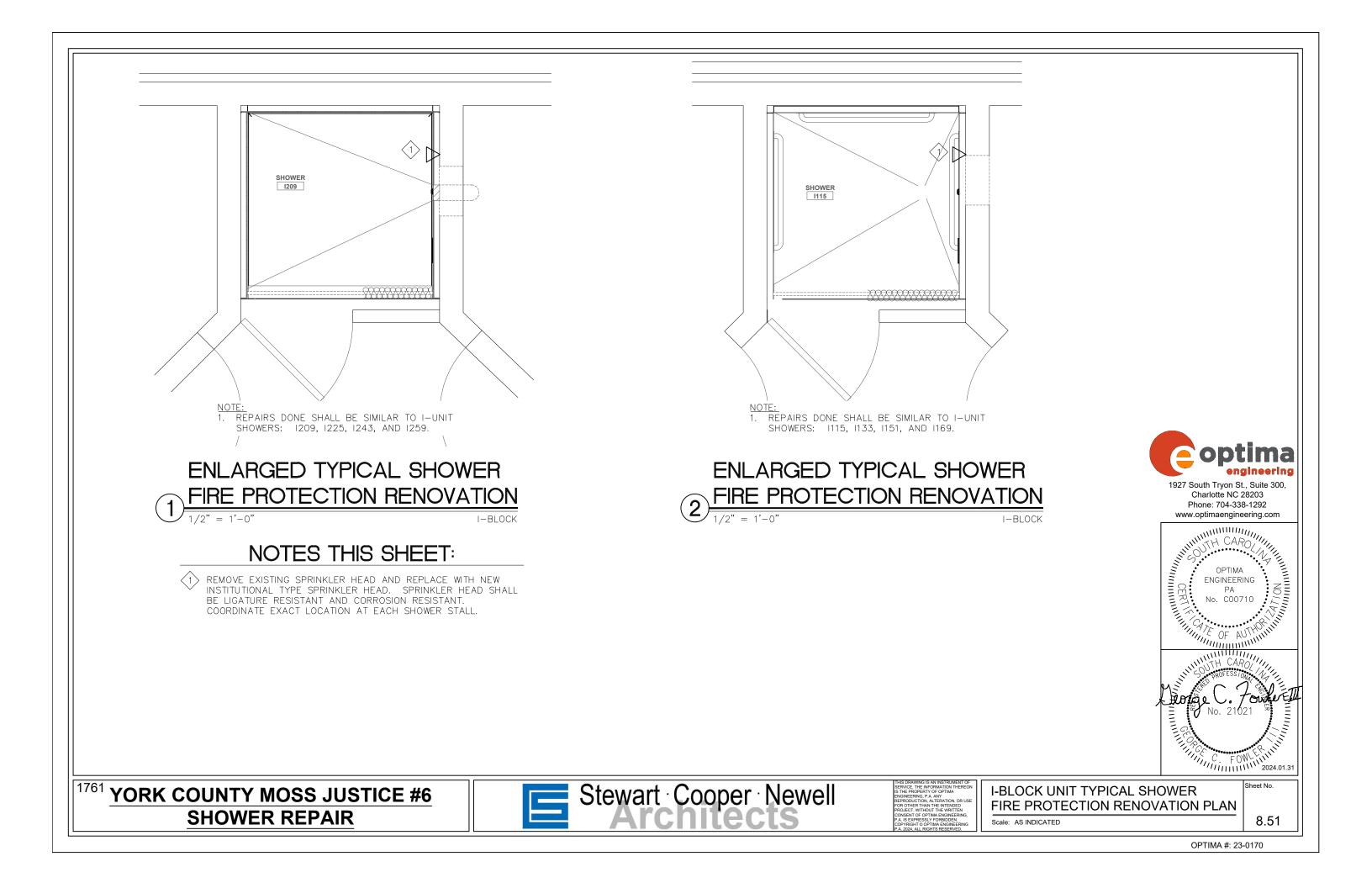


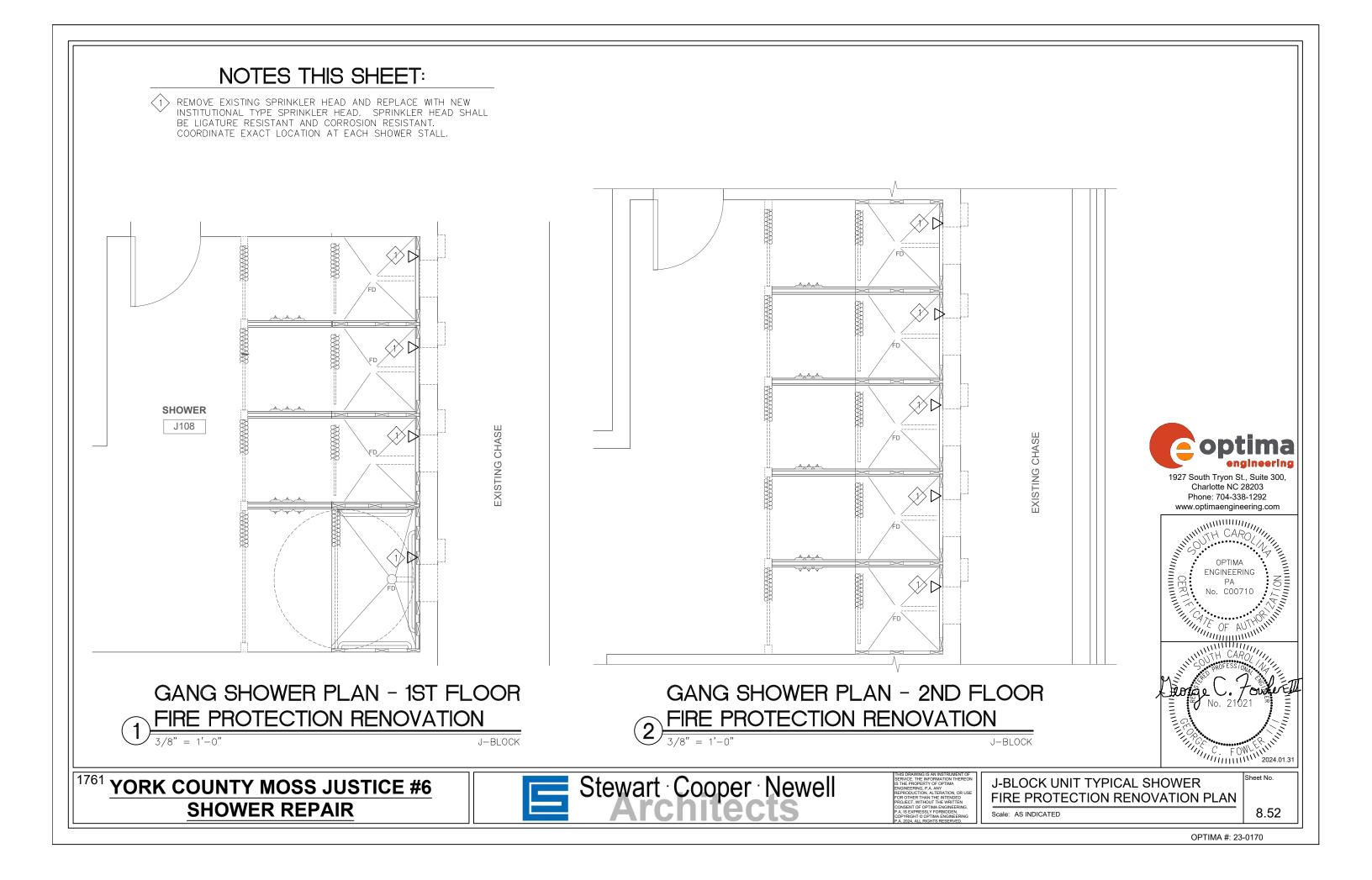


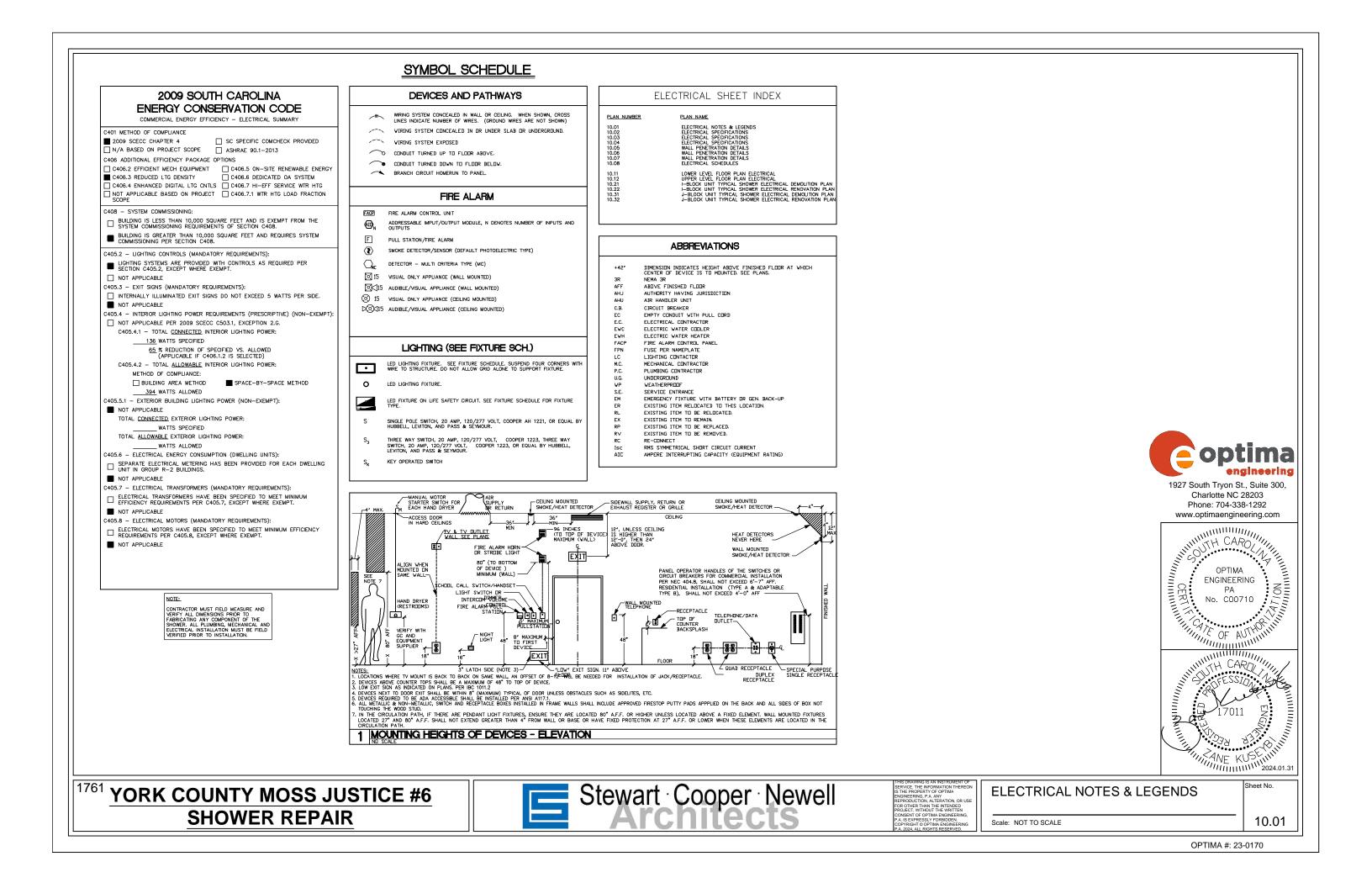












GENERAL:

- THE WORK COVERED BY THESE SPECIFICATIONS CONSISTS OF FURNISHING ALL LABOR, Α. EQUIPMENT, MATERIAL, SAND SUPPLIES AS NECESSARY FOR THE COMPLETE AND SATISFACTORY OPERATING ELECTRICAL SYSTEMS AS SHOWN ON THE PLANS.
- ALL WORK SHALL BE IN ACCORDANCE WITH LATEST EDITIONS OF THE NATIONAL ELECTRICAL Β. CODE, NFPA, STATE BUILDING CODE, AND ANY OTHER LOCAL REQUIREMENTS THAT MAY APPLY.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL ELECTRICAL PERMITS AND INSPECTION FEES. С.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY THE D. UNDERWRITER'S LABORATORIES, INC. OR BY A STATE APPROVED THIRD PARTY TESTING AGENCY FOR THE USE INTENDED WHERE A STANDARD FOR SUCH MATERIALS AND USE EXISTS. ALL ITEMS OF THE SAME TYPE AND RATING SHALL BE IDENTICAL AND OF THE SAME MANUFACTURER
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CATALOG DATA IN ELECTRONIC FORMAT Ε. (PDF) FOR ALL ELECTRICAL ITEMS IN THE SCOPE OF WORK, INCLUDING, BUT NOT LIMITED TO, RACEWAYS, BOXES, FITTINGS, CONDUCTORS, LUMINAIRES, LAMPS, BALLASTS, WIRING DEVICES, SAFETY SWITCHES, DISCONNECTS, FIRE ALARM, TELECOMMUNICATIONS, ETC. FOR APPROVAL AS APPLICABLE FOR THE PROJECT. ONE COMPLETE SET OF APPROVED SUBMITTALS SHALL BE MAINTAINED AT THE JOB SITE.
- ALL COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT TO COMPLY WITH THE BASIS OF DESIGN, INCLUDING PROVIDING MAINTENANCE ACCESS, CLEARANCE, CONDUIT, WIRING, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, METHODS, ETC. SHALL BE INCLUDED IN THE ORIGINAL BASE BID. NO ADDITIONAL COSTS ASSOCIATED WITH SUBSTITUTED EQUIPMENT WILL BE APPROVED AFTER BIDS HAVE BEEN ACCEPTED AND ALL COSTS WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. CREDITS SHALL BE GIVEN TO THE OWNER WHERE SUCH EQUIPMENT AND METHODS RESULT IN LESS EXPENSE TO THE CONTRACTOR.
- ONE COMPLETE SET OF THE LATEST CONSTRUCTION PLANS OF ALL TRADES SHALL BE G. MAINTAINED AT THE JOB SITE. IN ADDITION, ALL ADDENDUMS, BULLETINS, AND/OR SKETCHES SHALL BE INCORPORATED INTO THE ON-SITE CONSTRUCTION PLANS AS THE JOB PROGRESSES
- COMPLETELY ADEQUATE HOUSING SHALL BE PROVIDED FOR ALL MATERIALS STORED ON JOB Η. SITE. ONLY CONDUIT MAY BE STORED OUTSIDE, BUT NOT IN CONTACT WITH THE GROUND.
- THE CONDUIT AND NEUTRAL SYSTEM SHALL BE GROUNDED AT THE MAIN SERVICE EQUIPMENT. GROUNDING ELECTRODE SYSTEM SHALL BE INSTALLED PER NEC 250.
- PROVIDE AN INTERSYSTEM BONDING TERMINATION DEVICE AT THE MAIN ELECTRICAL SERVICE. J. PER NEC 250.94.
- WIRING SHALL BE TESTED FOR CONTINUITY AND GROUNDS BEFORE BEING ENERGIZED. Κ. FAULTY WIRING SHALL BE REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER. PROVIDE ALL CUTTING AND PATCHING FOR INSTALLATION OF WORK AND REPAIR ANY
- DAMAGE DONE.
- M. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS (UNLESS OTHERWISE NOTED), EXCEPT FOR CONTROL WIRING FOR EQUIPMENT NOT PROVIDED BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING FOR SUCH EQUIPMENT SHALL BE PROVIDED BY THE RESPECTIVE DISCIPLINE.
- ALL ELECTRICAL JUNCTION BOXES, CABLING, ETC. SHALL BE LABELED ACCORDING TO Ν. PANEL/RACK AND CIRCUIT NUMBER.
- O. UPON COMPLETION OF WORK, CONTRACTOR SHALL PRESENT ENGINEER WITH CERTIFICATE OF APPROVAL FROM LOCAL INSPECTOR AND/OR AUTHORITY HAVING JURISDICTION BEFORE WORK WILL BE APPROVED FOR FINAL PAYMENT.
- CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR EFFECTIVE THE DATE THE PROJECT IS ACCEPTED BY THE OWNER. ANY IMPERFECT MATERIALS OR WORKMANSHIP SHALL BE REPLACED WITHOUT ADDED COST TO THE PROJECT.
- Q. IT SHALL NOT BE THE INTENT OF ISSUED PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL NECESSARY ITEMS FOR A COMPLETE AND OPERATING SYSTEM.
- THE WORD "PROVIDE" MEANS THAT THIS CONTRACTOR SHALL FURNISH, FABRICATE, ERECT, CONNECT, AND COMPLETELY INSTALL SYSTEMS IN PROPER OPERATING CONDITION. ALL LABOR, PRODUCT OPTIONS, ACCESSORIES AND INCIDENTAL MATERIALS REQUIRED SHALL BE INCLUDED AS PART OF THIS WORK TO COMPLETE THE INSTALLATION.
- THE WORD "CONNECT" MEANS THAT THIS CONTRACTOR SHALL PROVIDE (SEE DEFINITION S ABOVE) ALL DISCONNECTING MEANS, OVERCURRENT PROTECTION AND WIRING REQUIRED TO PLACE THE EQUIPMENT AND SYSTEMS IN PROPER OPERATING CONDITION AND TO COMPLY

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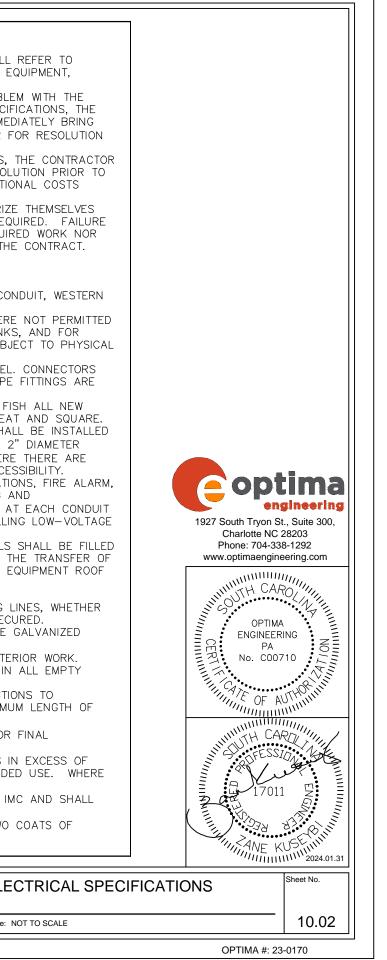
WITH CODE REQUIREMENTS.

- T. ELECTRICAL CONTRACTOR SHALL NOT SCALE PLANS. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT. UNLESS OTHERWISE NOTED.
- U. IF DURING THE COURSE OF WORK. THE CONTRACTOR DISCOVERS A PROBLEM WITH THE PERFORMANCE OF THE INSTALLATION RELATIVE TO THE PLANS AND SPECIFICATIONS, THE NEC. OR OTHER CODES OR REQUIREMENTS. THE CONTRACTOR SHALL IMMEDIATELY BRING THE PROBLEM TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER FOR RESOLUTION PRIOR TO THE EXECUTION OF THE WORK.
- V. WHERE THERE ARE CONFLICTS BETWEEN THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL BRING THE ISSUE TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO THE EXECUTION OF THE WORK OR ORDERING ANY MATERIALS. NO ADDITIONAL COSTS SHALL BE WARRANTED WITHOUT A CHANGE TO THE PROJECT SCOPE.
- W. EACH BIDDER SHALL VISIT THE JOB SITE PRIOR TO BIDDING TO FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND TO ASCERTAIN THE EXTENT OF WORK REQUIRED. FAILURE TO VISIT SITE SHALL NOT EXCUSE CONTRACTOR FROM PERFORMING REQUIRED WORK NOR SHALL IT BE AN ACCEPTABLE REASON FOR REQUESTING ADDITIONS TO THE CONTRACT.

RACEWAY: 2.

- A. CONDUIT SHALL BE MANUFACTURED BY ALLIED, WHEATLAND, REPUBLIC CONDUIT, WESTERN TUBE, OR APPROVED EQUIVALENT.
- FOR INTERIOR WORK, CONDUIT SHALL BE ZINC COATED EMT EXCEPT WHERE NOT PERMITTED BY CODE. USE SCHEDULE 40 PVC BELOW CONCRETE SLAB, IN DUCTBANKS, AND FOR EXTERIOR WORK WHERE NOT SUBJECT TO DAMAGE. USE IMC WHERE SUBJECT TO PHYSICAL DAMAGE
- C. EMT FITTINGS SHALL BE COMPRESSION GLAND TYPE, OF MALLEABLE STEEL. CONNECTORS SHALL HAVE INSULATED THROATS. CAST, SET SCREW, OR INDENTER TYPE FITTINGS ARE NOT ACCEPTABLE. ALL FITTINGS FOR EMT SHALL BE MADE OF STEEL.
- ALL RACEWAY SHALL BE RUN CONCEALED, UNLESS OTHERWISE NOTED. FISH ALL NEW OUTLETS IN EXISTING WALLS, WHERE POSSIBLE. ALL RUNS SHALL BE NEAT AND SQUARE.
- LOW VOLTAGE CABLING NOT SPECIFIED TO BE INSTALLED IN CONDUIT, SHALL BE INSTALLED IN A CABLE TRAY SYSTEM OR J-HOOK SYSTEM CONSISTING OF MINIMUM 2" DIAMETER HOOKS LOCATED ON 3'-O" CENTERS IN ALL ACCESSIBLE CEILINGS. WHERE THERE ARE INACCESSIBLE CEILINGS, PROVIDE CONDUIT FOR ENTIRE LENGTH OF INACCESSIBILITY.
- F. RACEWAYS USED FOR LOW VOLTAGE SYSTEMS SUCH AS TELECOMMUNICATIONS, FIRE ALARM, SECURITY, CCTV, CONTROLS, AND SIMILAR CONDUITS ABOVE THE CEILING AND BACKBOARD(S) SHALL BE PROVIDED WITH INSULATED THROAT BUSHINGS AT EACH CONDUIT TERMINATION. THESE BUSHINGS SHALL BE BE INSTALLED PRIOR TO PULLING LOW-VOLTAGE CABLES
- RACEWAY PENETRATIONS THROUGH FLOOR SLABS AND FIRE-RATED WALLS SHALL BE FILLED WITH IMPERVIOUS. NON-SHRINK GROUT SUFFICIENTLY TIGHT TO PREVENT THE TRANSFER OF SMOKE, WATER, AND DUST. ROOF PENETRATIONS SHALL BE WITHIN THE EQUIPMENT ROOF CURB
- H. SUPPORT ALL CONDUIT WITH STRAPS AND CLAMPS.
- ALL CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES, WHETHER EXPOSED OR NOT AND SUPPORTED FROM STRUCTURE AND PROPERLY SECURED.
- WHERE CONDUITS PASS THROUGH A BUILDING EXPANSION JOINT, PROVIDE GALVANIZED J. EXPANSION FITTINGS WITH BONDING JUMPERS.
- K MINIMUM CONDUIT SIZE SHALL BE 3/4" FOR INTERIOR WORK, 1" FOR EXTERIOR WORK. PROVIDE MINIMUM 210# TEST NYLON PULL CORD AND NYLON BUSHINGS IN ALL EMPTY RACEWAYS
- LIQUID-TIGHT METAL CONDUIT SHALL ONLY BE USED FOR FINAL CONNECTIONS TO Μ. EQUIPMENT AND ALL OTHER ROTATING AND VIBRATING EQUIPMENT, MAXIMUM LENGTH OF 3'-0"
- N. FLEXIBLE METAL CONDUIT, MINIMUM SIZE 3/8", SHALL ONLY BE USED FOR FINAL CONNECTION TO LIGHTING FIXTURES, MAXIMUM LENGTH OF 6'-0".
- PROVIDE PULL BOXES, SUCH THAT NO SINGLE CONDUIT RUN HAS BENDS IN EXCESS OF О. 360°. PULL BOXES SHALL BE SUITABLE AND APPROVED FOR THE INTENDED USE. WHERE CONDUITS PASS UNDER PAVED AREAS, THEY SHALL BE RGS.
- P. ALL CONDUIT BENDS/ELBOWS EMERGING FROM UNDERGROUND SHALL BE IMC AND SHALL EXTEND A MINIMUM OF 18" BELOW GRADE.
- Q. ALL UNDERGROUND RACEWAYS SHALL BE THOROUGHLY COATED WITH TWO COATS OF ASPHALTUM BITUMASTIC.

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R.	ALL CONDUITS INSTALLED UNDERGROUND OR IN CONCRETE SHALL HAVE JOINTS MADE
	WATERTIGHT BY USE OF POLYETRA-FLUOROETHYLENE TAPE.

- S. THE USE OF AC OR NM CABLE IS NOT PERMITTED.
- T. MC CABLE SHALL NOT BE USED WITH EXCEPTION OF LIGHTING FIXTURE CONNECTIONS WITH A MAXIMUM OF 3'-O" OF MC CABLE TO FIXTURE.

3. <u>OUTLET BOXES:</u>

A. JUNCTION AND PULL BOXES SHALL BE CODE GAUGE GALVANIZED STEEL. ACCEPTED MANUFACTURERS SHALL BE STEEL CITY (THOMAS & BETTS), RACO, CROUSE-HINDS, APPLETON (EMERSON), OR APPROVED EQUIVALENT.

4. CONDUCTORS:

- A. CONDUCTORS SHALL BE MANUFACTURED BY SOUTHWIRE (SIMPULL), ENCORE (SUPERSLICK), UNITED COPPER (SLK), CERRO (SLP), OR APPROVED EQUAL, "PRE-LUBRICATED" BY THE MANUFACTURER.
- B. ALL CONDUCTORS SHALL BE COPPER, RATED 75° C WET/DRY EXCEPT WHERE OTHERWISE NOTED OR REQUIRED BY U.L. OR OTHER CODES.
- ALL CONDUCTORS SHALL BE SINGLE INSULATED CONDUCTOR, THHN/THWN-2. SIZES #10 C. AWG AND SMALLER SHALL BE SOLID, SIZES #8 AWG AND LARGER SHALL BE STRANDED. D. BRANCH CIRCUITS SHALL NOT BE SMALLER THAN #12 AWG. CONTROL WIRING MAY BE #14
- AWG.
- E. CONDUCTORS SHALL BE COLOR CODED BLACK/RED/BLUE FOR 120/208 VOLT SYSTEMS AND BROWN/ORANGE/YELLOW FOR 277/480 VOLT SYSTEMS FOR A, B, AND C PHASES, RESPECTIVELY. NEUTRAL SHALL BE WHITE FOR 120/208 VOLT SYSTEMS AND NATURAL GRAY FOR 277/480 VOLT SYSTEMS. GROUND CONDUCTOR SHALL BE GREEN ON ALL SYSTEMS. ALL CONDUCTOR SIZES SHALL HAVE COLOR-CODED INSULATION. THE USE OF COLORED TAPE ON LARGER WIRE SIZES SHALL NOT BE ALLOWED.
- F. INSULATION SHALL BE DUAL RATED TYPE THHN/THWN-2 FOR FEEDERS AND BRANCH CIRCUITS. FIXTURE TAPS SHALL BE #12 THHN/THWN-2 IN FLEX WITH GREEN #12 AWG GROUNDING CONDUCTOR.
- G. ALL CONDUCTORS SHALL BE IN CONDUIT.
- H. WIRING TO LIGHTING FIXTURES SHALL BE AS REQUIRED BY UL LABEL.
- I. MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE ALLOWED.
- J. JOINTS IN #10 AWG AND SMALLER SHALL BE MADE UP WITH CRIMPED CONNECTORS WITH INSULATING CAPS (NO TAPE) OR WIRENUTS (MAXIMUM OF 3 CONDUCTORS UNDER ANY CONNECTOR OR WIRENUT). LARGER WIRE SHALL USE SPLIT BOLTS OR BOLTED CLAMPS.
- K. ALL WIRING LUGS THROUGHOUT THE PROJECT, INCLUDING, BUT NOT LIMITED TO, BREAKERS, PANELBOARD/SWITCHBOARD LUGS, SAFETY SWITCH LUGS, MOTOR STARTER LUGS, TRANSFORMERS LUGS, WIRING DEVICE TERMINALS, AND ALL EQUIPMENT LUGS/TERMINALS SHALL BE RATED FOR USE WITH 75 DEGREE INSULATED CONDUCTORS AT THEIR 75 DEGREE AMPACITY AND SHALL BE SIZED AND SELECTED TO MATCH THE CONDUCTOR SIZE AND MATERIAL
- L. CIRCUIT JOINTS SHALL NOT BE MADE ON DEVICE TERMINALS.
- M. WIRE WITHIN PANELBOARDS SHALL BE NEATLY TRAINED, SQUARED, BUNCHED, AND TAGGED.
- ALL SYSTEM FURNITURE CONNECTIONS SHALL COMPLY WITH NEC 605. Ν
- GROUND ALL EQUIPMENT PER NEC ARTICLE 250. BOND WHERE CONDUITS ENTER Ο. ENCLOSURES THROUGH CONCENTRIC KNOCKOUTS. ALL FLEX. INCLUDING FIXTURE TAPS. SHALL INCLUDE GREEN GROUNDING CONDUCTOR, #12 AWG MINIMUM. PROVIDE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT AND FOR EACH CIRCUIT. SIZED PER NEC 250-122.
- P. ALL CONDUCTORS INSTALLED IN VERTICAL RACEWAYS SHALL BE SUPPORTED AT INTERVALS AS REQUIRED PER NEC 300-19.
- THE ELECTRICAL CONTRACTOR SHALL FOLLOW AND APPLY THE TABLE BELOW. REGARDLESS Q. WHAT THE PANEL SCHEDULE INDICATES, FOR SIZING ALL 120V & 277V, 20 AMP BRANCH CIRCUITS (COPPER CONDUCTORS) TO ALLOW A MAXIMUM OF 3% VOLTAGE DROP FROM THE CIRCUIT BREAKER TO THE FIRST DEVICE ON THE BRANCH CIRCUIT AND ACHIEVE A MAXIMUM OF 5% VOLTAGE DROP ACROSS THE ENTIRE BRANCH CIRCUIT:

VOLTAGE CONDUCTOR LENGTH * BRANCH CIRCUIT

120 0' - 50' #12 51' - 90' 120 #10 91' - 140' 120 #8 141' - 225' 120 #6 277 0' - 125' #12 277 126' - 200' #10 201' - 330' 277 #8 277 331' - 525' #6

5. <u>SUPPORTS:</u>

- A. ALL EQUIPMENT SHALL BE ADEQUATELY SUPPORTED FROM STRUCTURE.
- B. INSERTS IN MASONRY SHALL BE LEAD OR FIBER IN DRILLED HOLES, OR CAST IN PLACE.
- C. NAILS OR POWDER ACTUATED FASTENERS SHALL NOT BE USED.
- D. EMT/IMC/RGS SUPPORTS SHALL BE A MAXIMUM OF 8'-0" APART AND A MAXIMUM OF 3'-0" FROM BOXES.
- LIGHTING FIXTURES MOUNTED IN OR ON CEILING SHALL BE SUPPORTED FROM STRUCTURE VIA 12 GAUGE STEEL WIRE. PROVIDE A MINIMUM OF FOUR WIRES, ONE ATTACHED TO EACH CORNER OF LAY-IN FIXTURES. RECESSED DOWNLIGHT FIXTURES SHALL BE SUPPORTED THE SAME. DO NOT SUPPORT RACEWAY OR FIXTURES FROM CEILING GRID OR DUCT WORK. USE U.L. LISTED GRID CLIPS ON ALL LAY-IN FIXTURES.

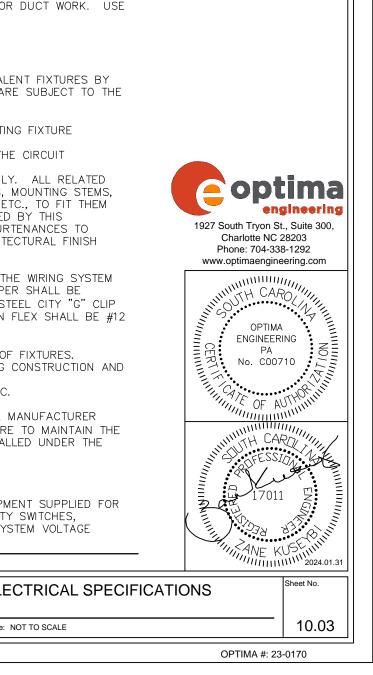
7. LIGHTING FIXTURES:

- A. TYPES AND MANUFACTURERS ARE SCHEDULED ON THE PLANS. EQUIVALENT FIXTURES BY OTHERS MAY BE SUBMITTED ONLY AS INDICATED ON THE PLANS AND ARE SUBJECT TO THE APPROVAL OF THE OWNER AND ENGINEER.
- ALL FIXTURES SHALL BE U.L. LISTED AND LABELED.
- С LED DRIVERS AND/OR BALLASTS SHALL BE AS INDICATED IN THE LIGHTING FIXTURE SCHEDULE OR AS OTHERWISE NOTED.
- ALL FIXTURES SHALL BE PROVIDED FOR PROPER VOLTAGE BASED ON THE CIRCUIT D. ASSIGNMENT INDICATED ON THE PLANS.
- CATALOG NUMBERS ARE FOR GENERAL IDENTIFICATION OF FIXTURES ONLY. ALL RELATED PARTS, SUCH AS PLASTER RINGS, JUNCTION BOXES, LOUVERS, SHIELDS, MOUNTING STEMS, CANOPIES, CONNECTORS, STRAPS, NIPPLES, HARDWARE, ACCESSORIES, ETC., TO FIT THEM PROPERLY TO THE CONSTRUCTION, SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. CONTRACTOR SHALL PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT FIXTURES IN TYPE OF CEILING OR WALL AS SPECIFIED IN ARCHITECTURAL FINISH SCHEDULES REGARDLESS OF CATALOG NUMBER GIVEN.
- ALL FIXTURES SHALL BE GROUNDED PER THE NEC. F
- FIXTURES CONNECTED WITH FLEX TO THE RIGID RACEWAY PORTION OF THE WIRING SYSTEM G. SHALL CARRY A GREEN BONDING JUMPER WITHIN THE FLEX. THE JUMPER SHALL BE FASTENED TO BOTH THE FIXTURE AND THE RACEWAY SYSTEM WITH A STEEL CITY "G" CLIP OR APPROVED EQUIVALENT. PHASE AND GROUND CONDUCTORS RUN IN FLEX SHALL BE #12 AWG MINIMUM. MAXIMUM FLEX LENGTH SHALL BE 6'-0".
- H. MOUNT ALL FIXTURES PLUMB AND SQUARE WITH ROWS ALIGNED.
- SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF FIXTURES.
- CONTRACTOR SHALL COORDINATE FIXTURE TYPE AND TRIM WITH CEILING CONSTRUCTION AND ADJUST ACCORDINGLY WITHOUT ADDITIONAL EXPENSE.
- ALL LIGHTING FIXTURES SHALL BE THERMALLY PROTECTED PER THE NEC.
- FIXTURES IN CONTACT WITH INSULATION SHALL BE IC RATED. 1
- М FOR RECESSED LIGHTING FIXTURES IN FIRE RATED CEILINGS, PROVIDE A MANUFACTURER APPROVED AND LISTED FIRE RATED COVER/ASSEMBLY OVER THE FIXTURE TO MAINTAIN THE INTEGRITY OF THE CEILING FIRE RATING. ANY LIGHTING FIXTURES INSTALLED UNDER THE FIRE RATED CAP SHALL BE SUITABLE FOR THE INSTALLATION.

10. EQUIPMENT IDENTIFICATION:

PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT SUPPLIED FOR THE PROJECT, INCLUDING BUT NOT LIMITED TO, WIRING TROUGHS, SAFETY SWITCHES, DISCONNECTS, ETC. NAMEPLATE SHALL INDICATE THE DEVICE NAME, SYSTEM VOLTAGE

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SHOWER REPAIR	Architects	PROJECT, WITHOUT THE WRITTEN CONSENT OF OPTIMA ENGINEERING, P.A. IS EXPRESSLY FORBIDDEN. COPYRIGHT © OPTIMA ENGINEERING P.A. 2024, ALL RIGHTS RESERVED.	Scale: NO



(VOLTAGE/PHASE/WIRE), AND UPSTREAM DEVICE AND CIRCUIT. PROVIDE NAMEPLATES FOR CIRCUIT BREAKER'S IN SWITCHGEARS, SWITCHBOARDS AND DISTRIBUTION PANELS.

- B. NAMEPLATE COLORS SHALL BE AS FOLLOWS: 120/208V EQUIPMENT BLUE SURFACE WITH WHITE CORE 277/480V EQUIPMENT BLACK SURFACE WITH WHITE CORE EMERGENCY SYSTEMS GREEN SURFACE WITH WHITE CORE
- C. NAMEPLATES UP TO 8 SQUARE INCHES SHALL NOT BE LESS THAN 1/16" THICK. NAMEPLATES LARGER THAN 8 SQUARE INCHES SHALL NOT LESS THAN 1/8" THICK.
- D. LETTERING HEIGHT SHALL BE 1/2" MINIMUM.
- E. NAMEPLATES SHALL BE ATTACHED WITH SELF-DRILLING/SELF-TAPPING SCREWS, EXCEPT RIVETS SHALL BE USED WHERE END OF SCREW IS NOT PROTECTED. QUANTITY AS FOLLOWS: UP TO 5 SQUARE INCHES: 2 SCREWS. 5 TO 12 SQUARE INCHES: 4 SCREWS. ABOVE 12 SQUARE INCHES: 6 SCREWS.
- 12. FIRE STOPPING:
 - A. ALL PENETRATIONS OF RATED ASSEMBLIES SHALL BE SEALED WITH RATED MATERIALS MEETING ASTM E-814
 - B. PROVIDE FIRESTOPPING DEVICE(S) OR SYSTEM(S) WHICH HAVE BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814. INSTALL THE DEVICE(S) OR SYSTEM(S) IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING. PROVIDE THE APPROPRIATE DEVICE(S) OR SYSTEM(S) WITH AN 'F' RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED.
 - C. DEVICE(S) AND/OR SYSTEM(S) SHALL BE BY HILTI, 3M OR EQUIVALENT.

13. DEMOLITION NOTES:

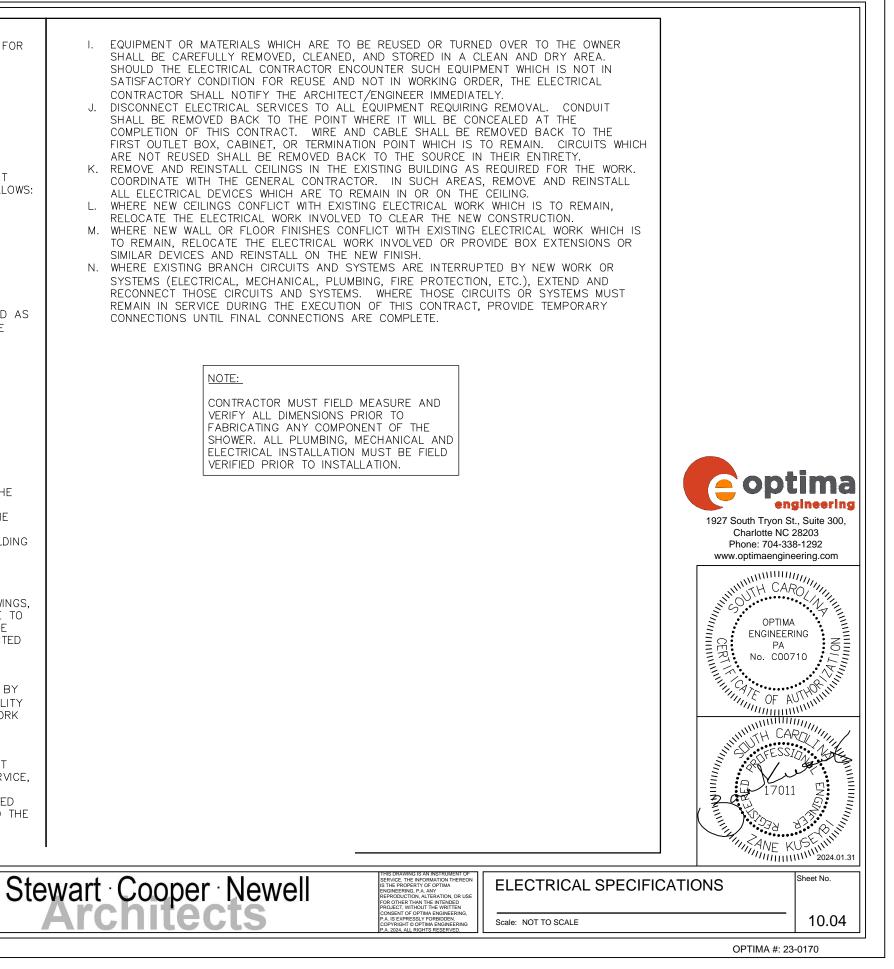
- A. PARTIAL AND TOTAL DEMOLITION OF PORTIONS SHALL BE PERFORMED ALONG WITH ALL NECESSARY MODIFICATIONS TO THAT PORTION OF THE EXISTING BUILDING WHICH SHALL REMAIN SO THAT IT CONTINUES TO FUNCTION UNAFFECTED BY THE DEMOLITION AND ASSOCIATED NEW CONSTRUCTION.
- B. WHERE INCLUDED AS PART OF THE CONTRACT DOCUMENTS, THE DRAWINGS INDICATE THE GENERAL AREAS OF WORK INVOLVED. HOWEVER, THE ELECTRICAL CONTRACTOR SHALL PERFORM WORK OUTSIDE THOSE AREAS SHOWN AS IS NECESSARY TO COMPLY WITH THE INTENT OF THIS SECTION
- C. THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE EXISTING BUILDING AND WITH THE WORK OF ALL OTHER TRADES AND INCLUDE ALL WORK NECESSARY TO COMPLY WITH THE INTENT OF THE DEMOLITION.
- D. IT SHALL BE UNDERSTOOD THAT FIELD CONDITIONS MAY BE ENCOUNTERED DURING THE EXECUTION OF THIS CONTRACT WHICH WILL REQUIRE EXTENSION OR RELOCATION OF EXISTING SYSTEMS OR EQUIPMENT WHICH ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS. BUT WHICH ARE REQUIRED TO MEET THE STATED INTENT THAT THE BUILDING CONTINUE TO FUNCTION UNAFFECTED BY THE DEMOLITION AND ASSOCIATED NEW CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL INCLUDE SUCH WORK AS WOULD NORMALLY BE EXPECTED IN AN EXISTING BUILDING OF THIS AGE AND TYPE.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TOOLS, EQUIPMENT, LABOR, ETC. IN Ε. ORDER TO ACCOMPLISH THE DEMOLITION PORTION OF THE PROJECT.
- THE DEMOLITION OF CERTAIN AREAS OF THE EXISTING BUILDING SHALL BE PERFORMED BY THE GENERAL CONTRACTOR. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE GENERAL CONTRACTOR TO DIFFERENTIATE THE SCOPE OF WORK BETWEEN SEPARATE TRADES.
- G. THE ELECTRICAL CONTRACTOR SHALL INCLUDE COORDINATION WITH THE GENERAL CONTRACTOR AND SUCH DEMOLITION OF THE EXISTING ELECTRICAL SYSTEMS AS IS NECESSARY SO THAT THE DEMOLITION WORK OF THE GENERAL CONTRACTOR SHALL NOT DAMAGE THOSE PORTIONS OF THE ELECTRICAL SYSTEMS WHICH ARE TO REMAIN IN SERVICE, ARE TO BE REUSED, OR ARE TO BECOME THE PROPERTY OF THE OWNER.
- H. TURN OVER TO OWNER, UPON REQUEST OR AS NOTED, ITEMS SHOWN AS BEING REMOVED AND NOT REINSTALLED. ITEMS NOT DIRECTED OR REQUESTED TO BE TURNED OVER TO THE OWNER SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR.

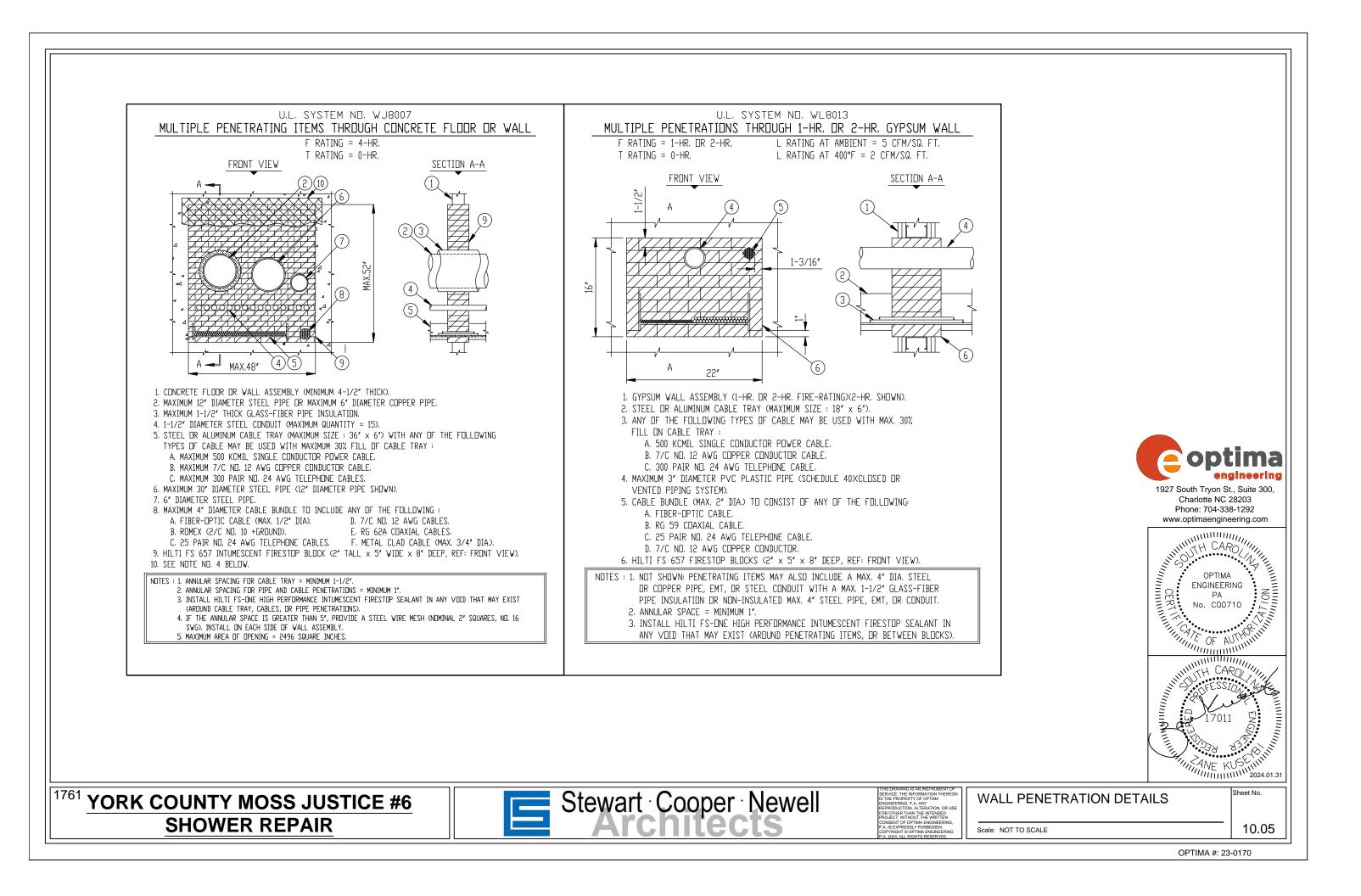
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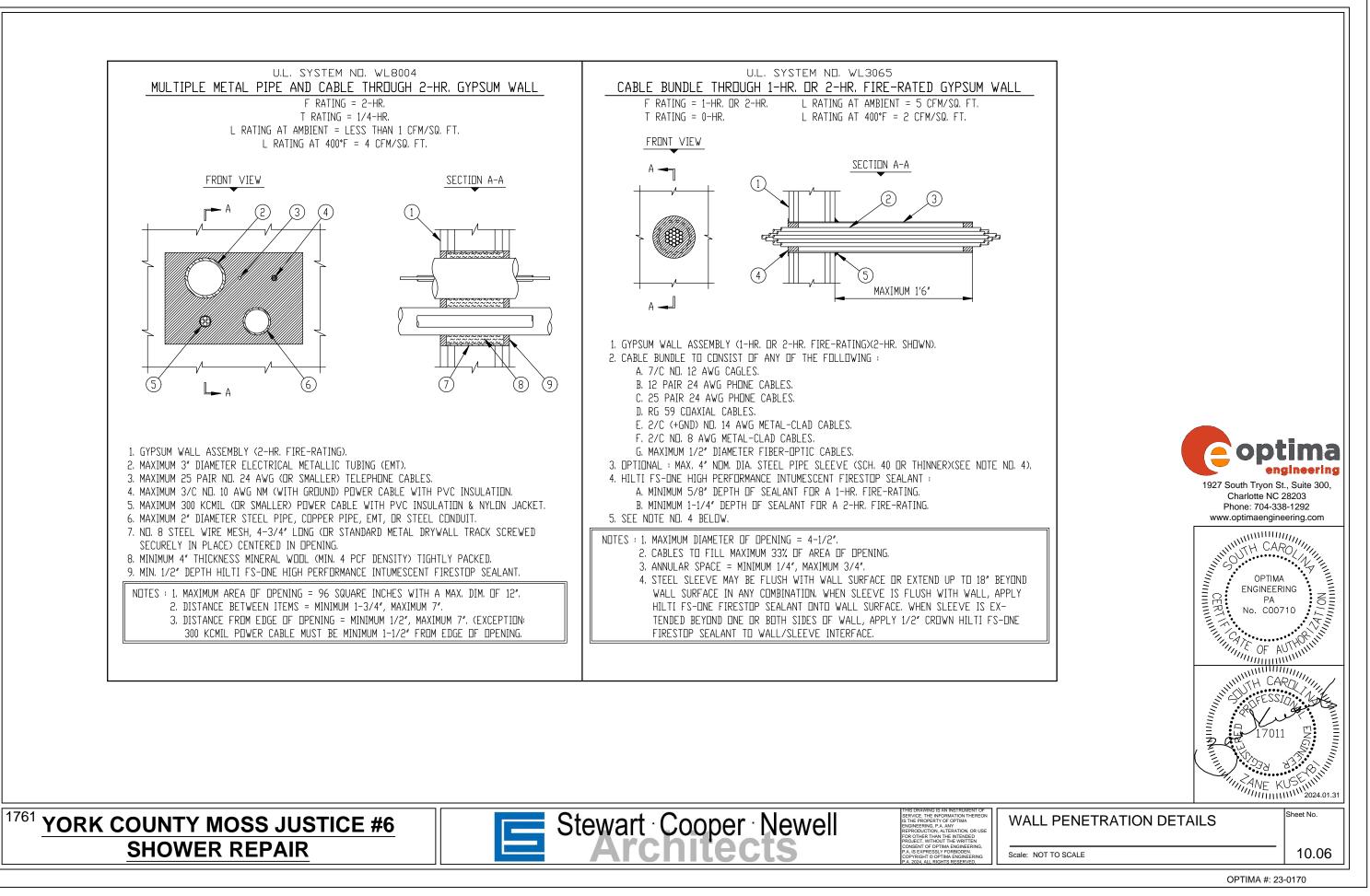
- EQUIPMENT OR MATERIALS WHICH ARE TO BE REUSED OR TURNED OVER TO THE OWNER Ι. SHALL BE CAREFULLY REMOVED, CLEANED, AND STORED IN A CLEAN AND DRY AREA. SHOULD THE ELECTRICAL CONTRACTOR ENCOUNTER SUCH EQUIPMENT WHICH IS NOT IN SATISFACTORY CONDITION FOR REUSE AND NOT IN WORKING ORDER, THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY
- DISCONNECT ELECTRICAL SERVICES TO ALL ÉQUIPMENT REQUIRING REMOVAL. CONDUIT SHALL BE REMOVED BACK TO THE POINT WHERE IT WILL BE CONCEALED AT THE COMPLETION OF THIS CONTRACT. WIRE AND CABLE SHALL BE REMOVED BACK TO THE FIRST OUTLET BOX, CABINET, OR TERMINATION POINT WHICH IS TO REMAIN. CIRCUITS WHICH ARE NOT REUSED SHALL BE REMOVED BACK TO THE SOURCE IN THEIR ENTIRETY.
- REMOVE AND REINSTALL CEILINGS IN THE EXISTING BUILDING AS REQUIRED FOR THE WORK. COORDINATE WITH THE GENERAL CONTRACTOR. IN SUCH AREAS, REMOVE AND REINSTALL ALL ELECTRICAL DEVICES WHICH ARE TO REMAIN IN OR ON THE CEILING.
- WHERE NEW CEILINGS CONFLICT WITH EXISTING ELECTRICAL WORK WHICH IS TO REMAIN, RELOCATE THE ELECTRICAL WORK INVOLVED TO CLEAR THE NEW CONSTRUCTION.
- M. WHERE NEW WALL OR FLOOR FINISHES CONFLICT WITH EXISTING ELECTRICAL WORK WHICH IS TO REMAIN, RELOCATE THE ELECTRICAL WORK INVOLVED OR PROVIDE BOX EXTENSIONS OR SIMILAR DEVICES AND REINSTALL ON THE NEW FINISH.
- WHERE EXISTING BRANCH CIRCUITS AND SYSTEMS ARE INTERRUPTED BY NEW WORK OR SYSTEMS (ELECTRICAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ETC.), EXTEND AND RECONNECT THOSE CIRCUITS AND SYSTEMS. WHERE THOSE CIRCUITS OR SYSTEMS MUST REMAIN IN SERVICE DURING THE EXECUTION OF THIS CONTRACT. PROVIDE TEMPORARY CONNECTIONS UNTIL FINAL CONNECTIONS ARE COMPLETE.

NOTE:

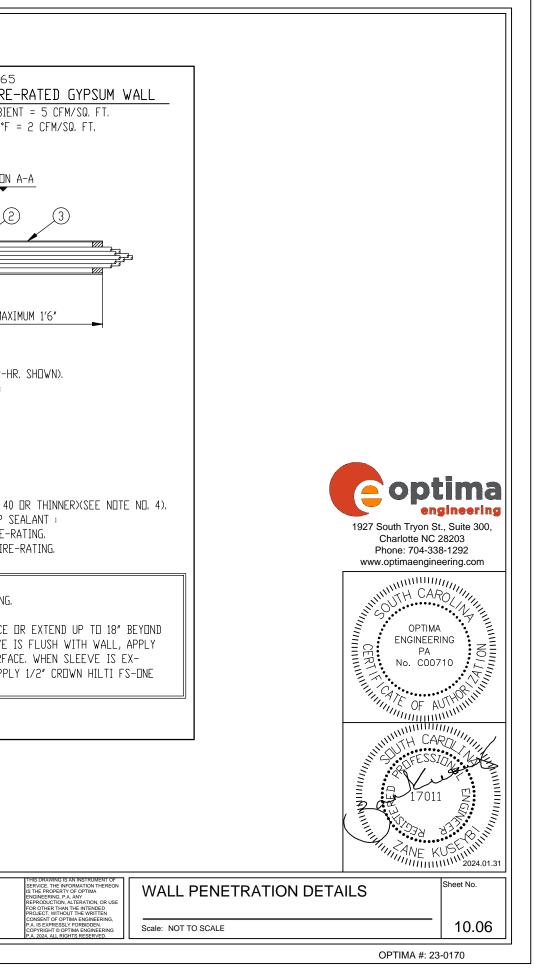
CONTRACTOR MUST FIELD MEASURE AND VERIFY ALL DIMENSIONS PRIOR TO FABRICATING ANY COMPONENT OF THE SHOWER. ALL PLUMBING, MECHANICAL AND ELECTRICAL INSTALLATION MUST BE FIELD VERIFIED PRIOR TO INSTALLATION.

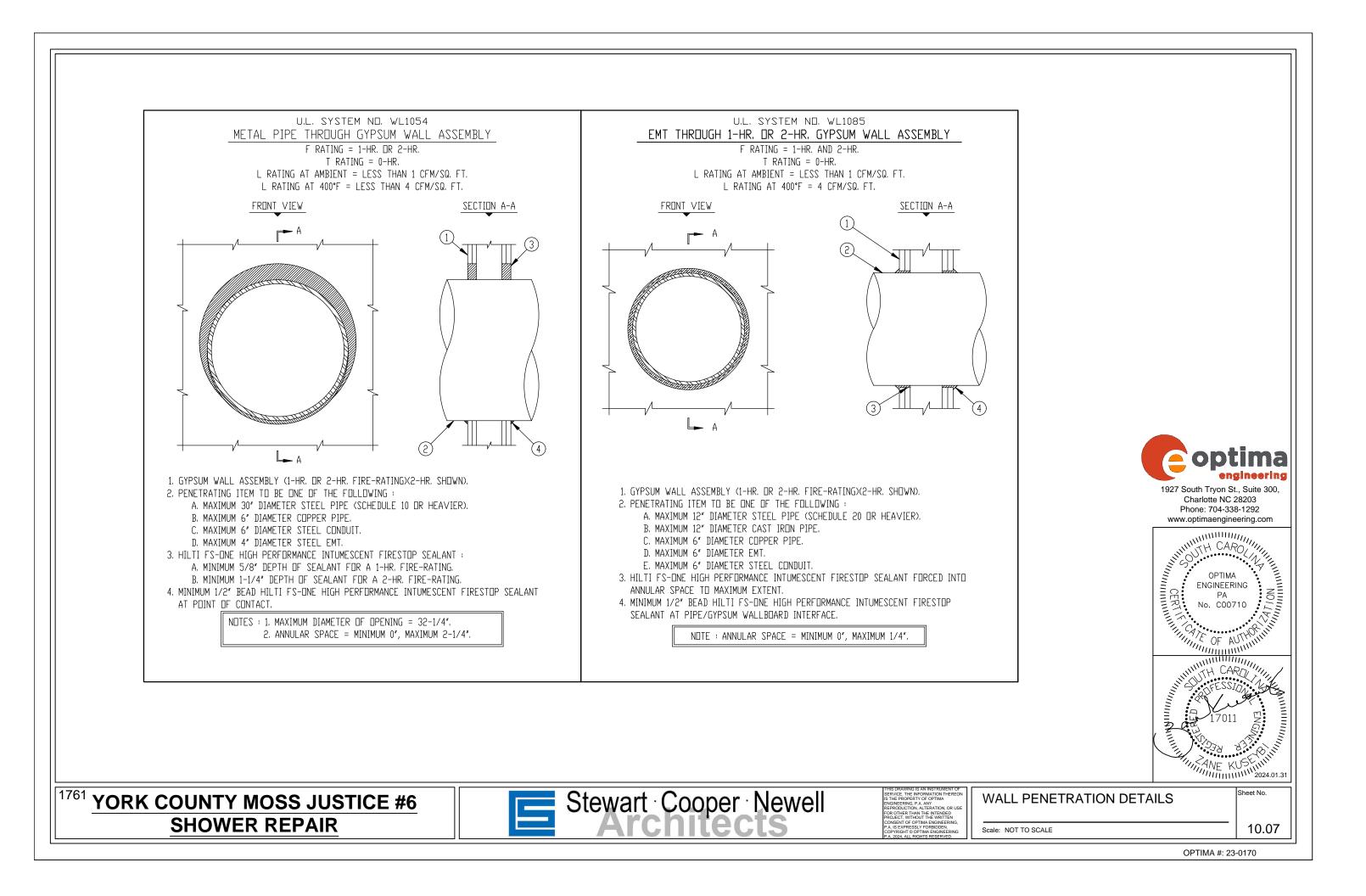












	LIGHTING FIXTURE SCHEDULE								
ТҮРЕ	DESCRIPTION	MINIMUM LUMENS	сст	TOTAL FIXTURE WATTAGE	BALLAST/DRIVER	VOLTAGE	MANUFACTURER	MODEL	
R1	1X1 RECESSED LED FIXTURE	800	3500K	8W	INTEGRAL LED DRIVER		FAIL SAFE HOLOPHANE KENALL	FMR-X12-1-LD4-1STD- 35-UNV-80/86-EDC1- WL-SF3-HS-SWBR	3500I HIGH WET SWIN

NOTE:

CONTRACTOR MUST FIELD MEASURE AND VERIFY ALL DIMENSIONS PRIOR TO FABRICATING ANY COMPONENT OF THE SHOWER. ALL PLUMBING, MECHANICAL AND ELECTRICAL INSTALLATION MUST BE FIELD VERIFIED PRIOR TO INSTALLATION.

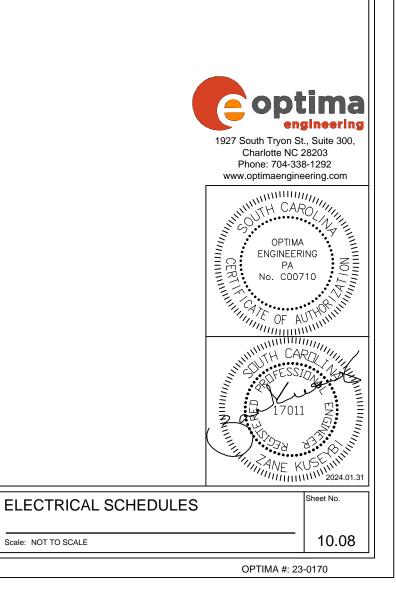


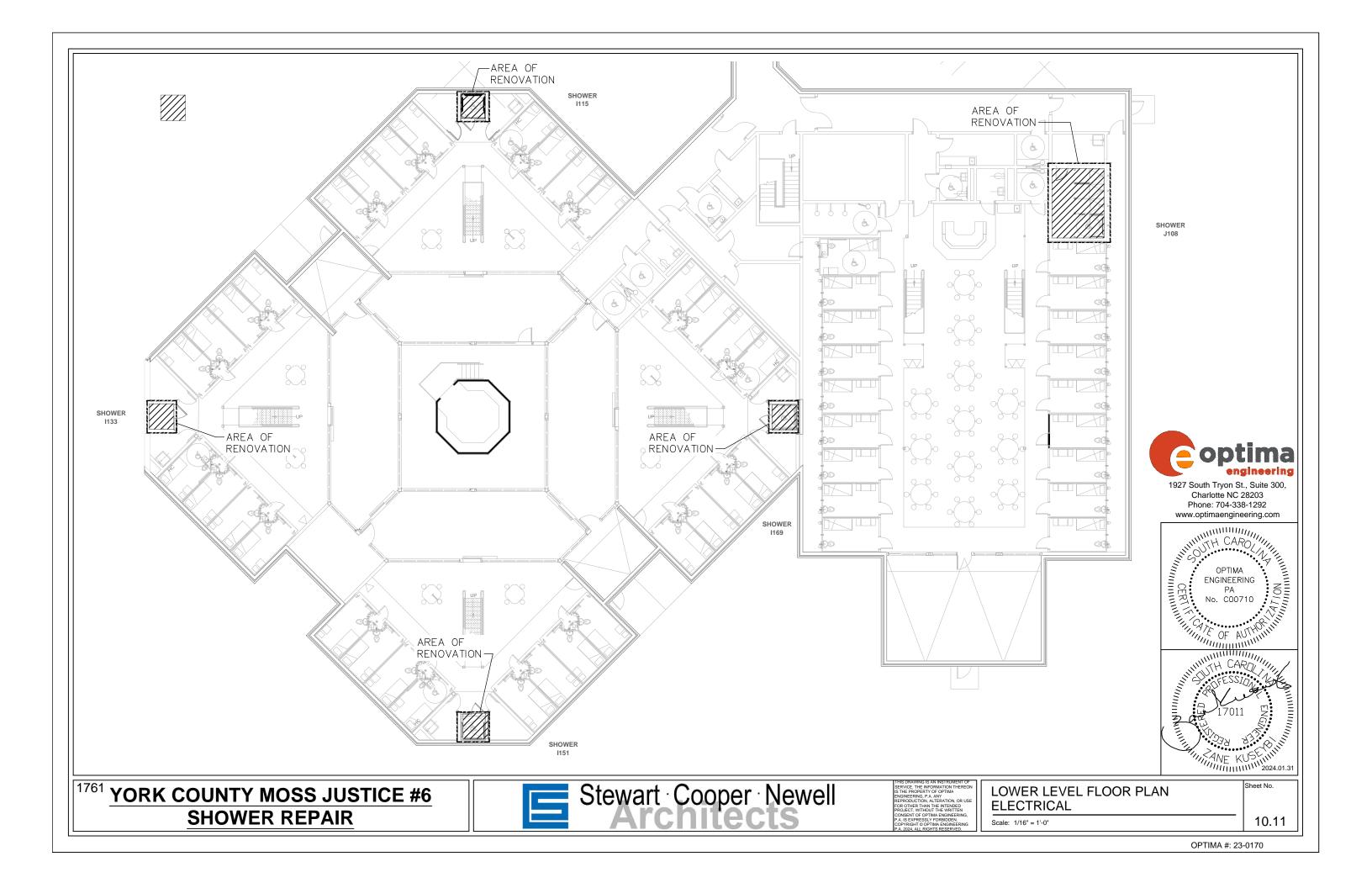


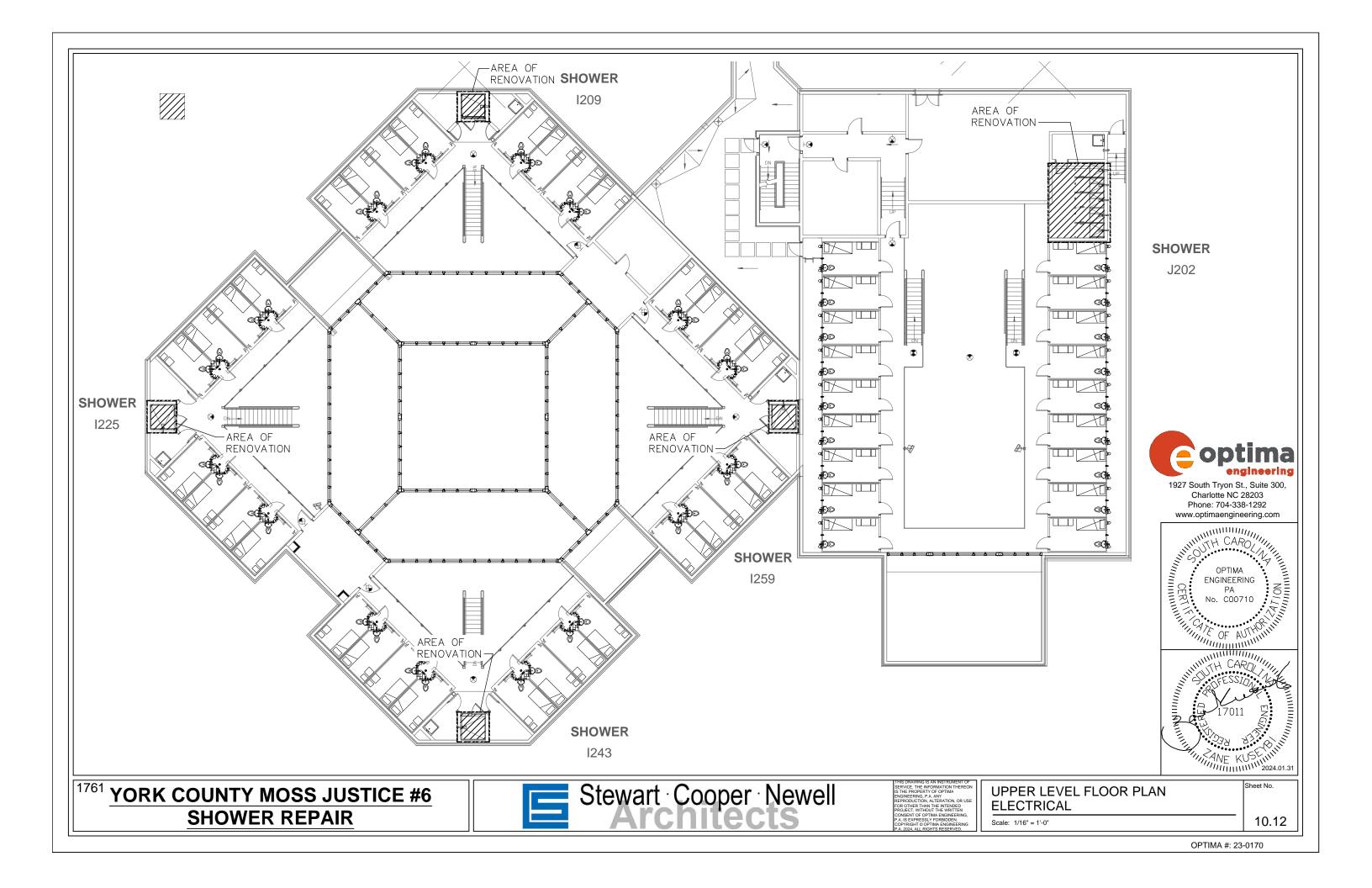


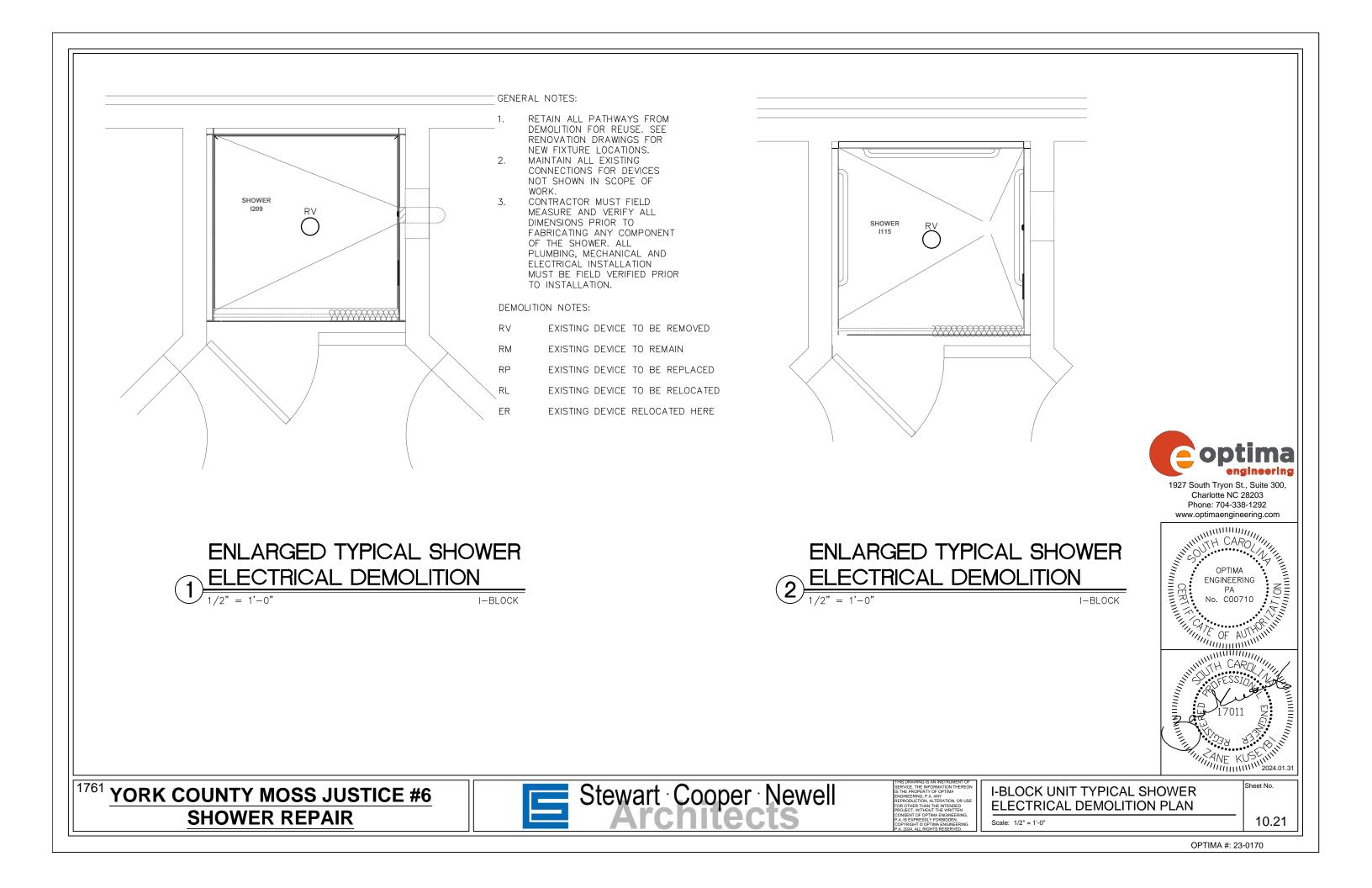


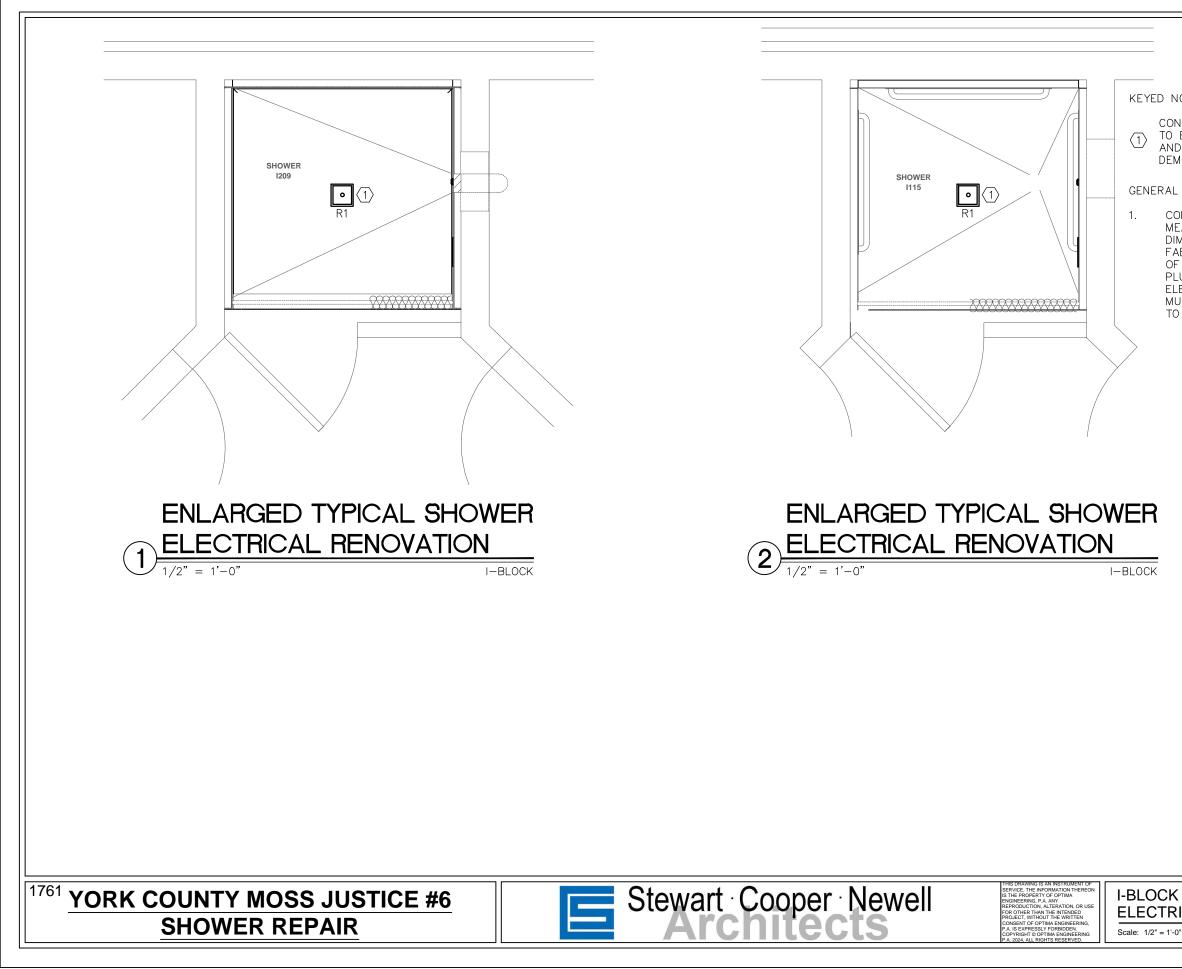
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KEYED NOTES: $\langle X \rangle$

CONNECT NEW LIGHT FIXTURE TO EXISTING LIGHTING CIRCUIT AND CONTROLS RETAINED FROM DEMOLITION IN THIS SPACE.

GENERAL NOTES:

CONTRACTOR MUST FIELD MEASURE AND VERIFY ALL DIMENSIONS PRIOR TO FABRICATING ANY COMPONENT OF THE SHOWER. ALL PLUMBING, MECHANICAL AND ELECTRICAL INSTALLATION MUST BE FIELD VERIFIED PRIOR TO INSTALLATION.

