NEWBERRY COUNTY DETENTION CENTER RENOVATIONS 3239 LOUIS RICH ROAD, NEWBERRY, SC 29108

GENERAL NOTES

THE GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS SHALL BE REQUIRED TO VISIT THE PREMISES TO INSPECT EXISTING CONDITIONS, BECOME FAMILIAR WITH LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND CORRELATE PERSONAL OBSERVATIONS WITH REQUIREMENTS OF THE DRAWINGS. ALL WORK PERFORMED SHALL BE IN STRICT COMPLIANCE WITH COUNTY REGULATIONS AND CODES, O.S.H.A. STANDARDS, THE CODE STANDARDS LISTED, EXECUTED IN ACCORDANCE WITH ACCEPTED INDUSTRY STANDARDS, AND CONFORM TO SPECIFIC REGULATIONS AS MANDATED BY THE OWNER AND THE ARCHITECT.

IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO INSURE THE PROCUREMENT OF ALL REQUIRED AND NECESSARY PERMITS. ALL CONTRACTORS SHALL OBTAIN NECESSARY AND APPLICABLE, CITY/COUNTY PERMITS, INSPECTIONS AND APPROVAL PRIOR TO THE COMMENCEMENT OF ANY WORK AND CERTIFICATE OF OCCUPANCY UPON COMPLETION OF PROJECT. CONTRACTOR SHALL FURNISH COPIES OF PERMITS, INSPECTIONS AND CERTIFICATES TO OWNER UPON REQUEST.

CONTRACTOR SHALL BE REQUIRED TO COORDINATE WORK SCHEDULE TO MINIMIZE DISRUPTION OF NORMAL ACTIVITIES AND TO AVOID INTERFERENCE WITH ADJACENT OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ADEQUATE PRECAUTIONS TO PROTECT SURROUNDINGS, MATERIALS AND EXISTING FINISHES THROUGHOUT ALL PHASES OF CONSTRUCTION AREAS AND OCCUPIED OR PUBLIC AREAS TO BE MAINTAINED BY CONTRACTOR. DAMAGE TO EXISTING-TO-REMAIN CONSTRUCTION, MATERIALS OR EQUIPMENT TO BE RESTORED TO ORIGINAL CONDITION.

CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF TRASH AND DEBRIS FROM JOB SITE ON A DAILY BASIS. FINAL CLEAN-UP WITHIN SCOPE OF WORK: GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL RELATED TRADES AND VENDORS NECESSARY TO THE COMPLETION OF THE JOB ON A TIMELY BASIS.

DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS ONLY. SUBMIT TO ARCHITECT ANY DISCREPANCIES FOR CLARIFICATION ALL WORK SHALL BE IN COMPLIANCE WITH THE INTERNATIONAL BUILDING CODE, GENERAL CONDITIONS OF THE CONTRACT FOR

CONSTRUCTION, CURRENT EDITION OF NATIONAL ELECTRIC CODE, INTERNATIONAL PLUMBING, AND MECHANICAL CODE, RECOGNIZED INDUSTRY STANDARDS, CRAFTSMANSHIP STANDARDS IN THE AREA, ALL MANUFACTURERS RECOMMENDATIONS, AND ALL OTHER APPLICABLE CODES. THE DESIGN PROFESSIONAL DOES NOT GUARANTEE THE PERFORMANCE OF THE PROJECT IN ANY RESPECT OTHER THAN THAT OUR

PROFESSIONAL WORK AND JUDGEMENT RENDERED MEET THE STANDARDS OF CARE OF OUR PROFESSION. THE LOCATION OF THE EXISTING UTILITIES AND STRUCTURES SHOWN HEREON ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND ACTUAL LOCATION OF SUCH, WHETHER SHOW HEREON OR NOT, PRIOR TO ANY EXCAVATION ANY DAMAGES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

THE FLOOR ON BOTH SIDES OF A DOOR SHALL BE LEVEL AND SHALL HAVE THE SAME ELEVATION ON BOTH SIDES OF THE DOOR, FOR A DISTANCE ON EACH SIDE EQUAL TO THE WIDTH OF THE WIDEST SINGLE DOOR. FIRE EXTINGUISHERS SHALL BE LOCATED PER THE REQUIREMENTS OF NFPA 10. THE SIZE SHALL BE A MINIMUM OF 2 A 10 BC 1 AND SHALL BE INSTALLED AT A MAXIMUM OF 48" A.F.F. TO THE TOP OF THE HANDLE.

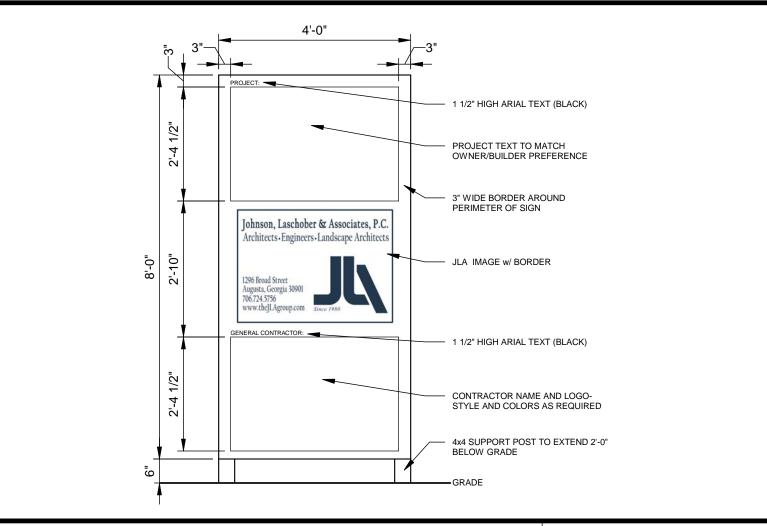
PROVIDE CONT. SOLID BLOCKING, AS REQUIRED, IN WALLS TO RECEIVE ACCESSORY ITEMS INCLUDING BUT NOT LIMITED TO THE FOLLOWING: HANDRAILS TOILET ROOM ACCESSORIES GRAB BARS

FIRE EXTINGUISHER CABINETS & BRACKETS CABINETS AND SHELVES

LEGIBLE AT ALL TIMES.

CLEAN WALLS, DOORS, DOOR FRAMES, HANDRAILS, GUARDRAILS, ETC. PER MANUFACTURERS RECOMMENDATIONS PRIOR TO SEALING AND PAINTING. REFER TO THE STRUCTURAL DRAWINGS FOR INFORMATION ON CONSTRUCTION AND CONTROL JOINTS IN CONCRETE SLABS AND CONCRETE AND MASONRY WALLS. SLAB JOINTS ARE SPECIFIED AND LOCATED ON THE STRUCTURAL DRAWINGS. TEMPORARY SIGNS: PROVIDE OTHER SIGNS AS REQUIRED TO INFORM PUBLIC AND INDIVIDUALS SEEKING ENTRANCE TO PROJECT. PROVIDE TEMPORARY, DIRECTIONAL SIGNS FOR CONSTRUCTION PERSONNEL AND VISITORS. MAINTAIN AND TOUCHUP SIGNS SO THEY ARE





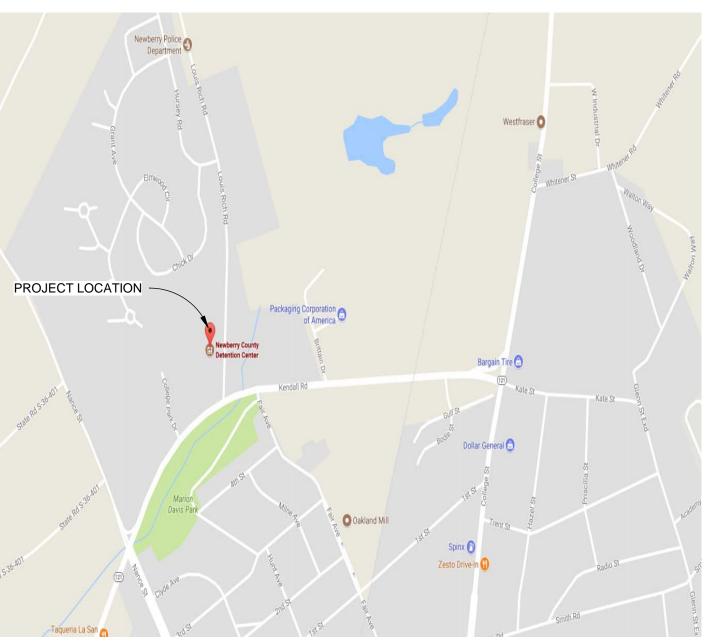
OWNER

P.O. BOX 156

NEWBERRY COUNTY NEWBERRY, SOUTH CAROLINA



PROJECT LOCATION MAP





PROJECT TEAM

NEWBERRY COUNTY CPST CRYSTAL WALDROP, PURCHASING DIRECTOR NEWBERRY, SC 29108 PHONE: 803-321-2100

EMAIL: cwaldrop@newberrycounty.net **OWNER'S REP/24 HOUR CONTACT**

CUMMING CORPORATION BARRY EVANS, VICE PRESIDENT 720 LADY STREET COLUMBIA, SOUTH CAROLINA 29201 PHONE: 706-803-726-8568 EMAIL: bevans@ccorpusa.com

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EMAIL: ncockfield@theJLAgroup.com **MECHANICAL ENGINEER**

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PHONE: 706-724-5756 EMAIL: cwilliamson@thejlagroup.com

FIRE PROTECTION ENGINEER JOHNSON, LASCHOBER AND ASSOCIATES, P.C. CURTIS WILLIAMSON, P.E. 1296 BROAD STREET AUGUSTA, GEORGIA 30901

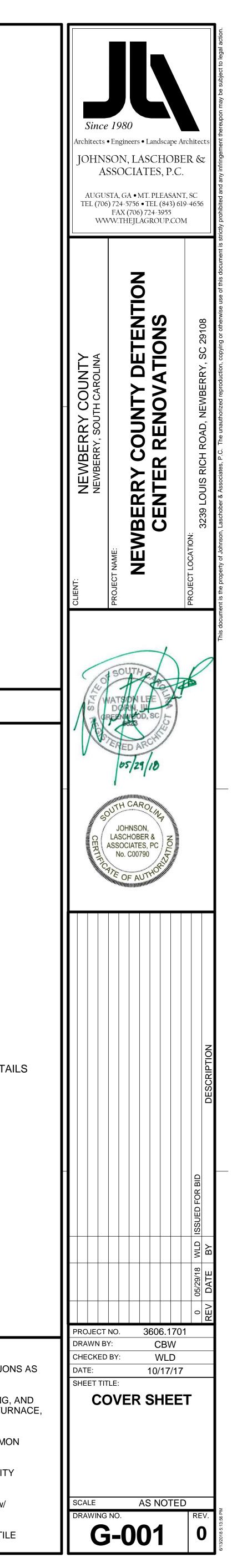
PHONE: 706-724-5756 EMAIL:cwilliamson@thejlagroup.com

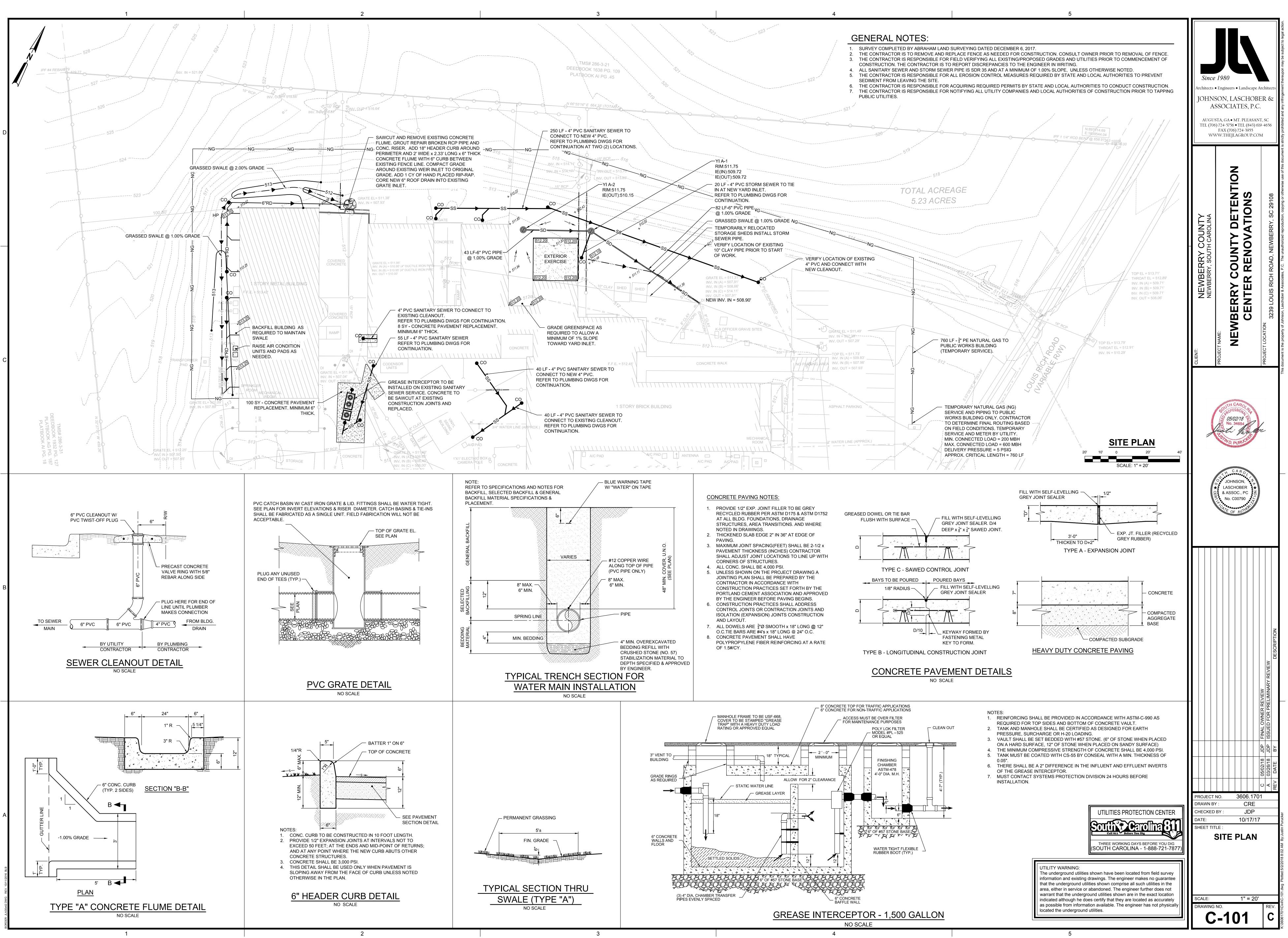
ELECTRICAL ENGINEER

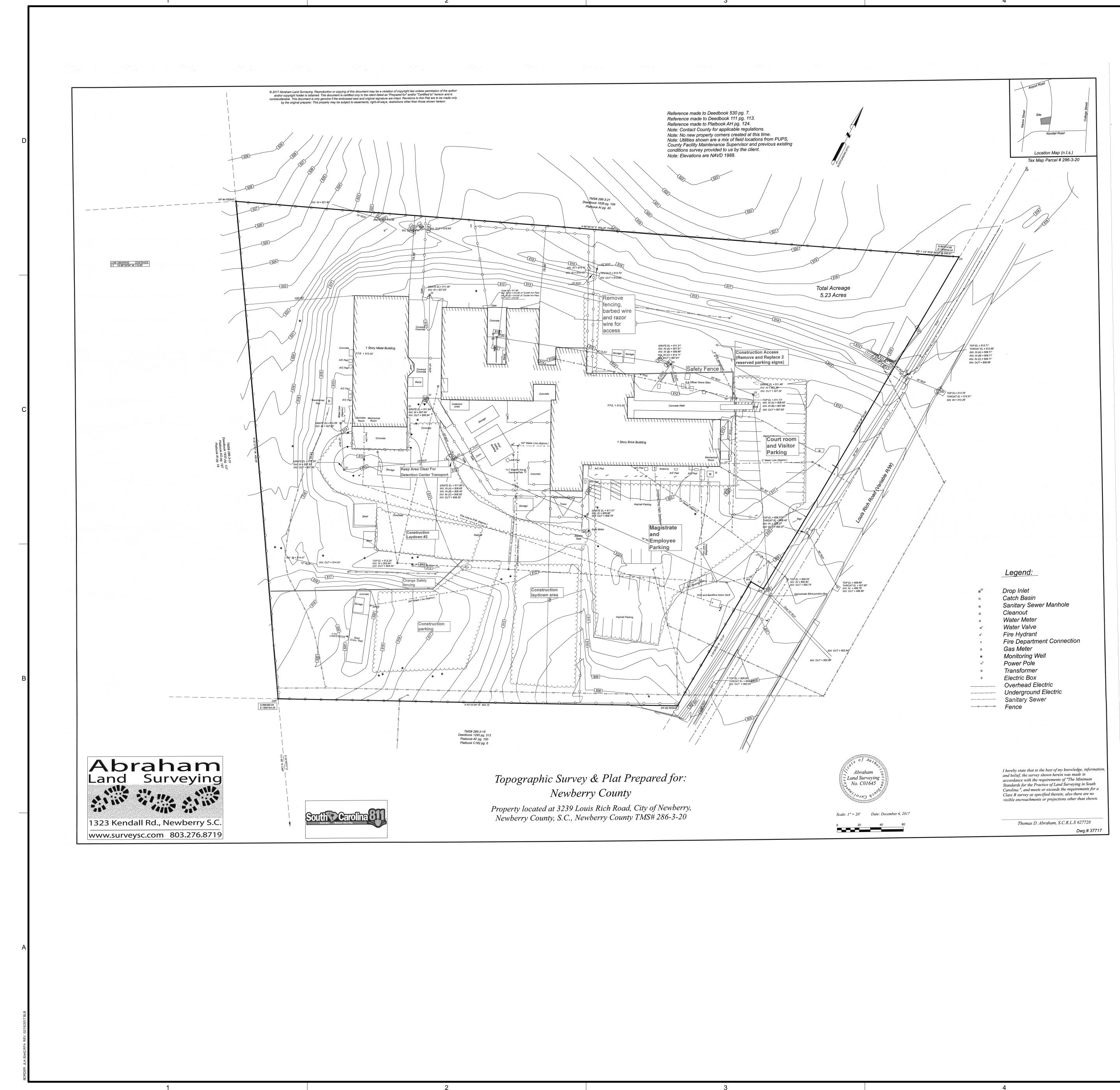
JOHNSON, LASCHOBER AND ASSOCIATES, P.C. FLOYD KEELS, P.E. 1296 BROAD STREET AUGUSTA, GEORGIA 30901 PHONE: 706-724-5756 EMAIL: fkeels@thejlagroup.com

CENTERLINE	
COLUMN GRID REFERENCE	
DRAWING LOCATION ON SHEET GRID DRAWING NAME	DOOR NUM
A101 SCALE: 1/8" = 1'-0" DRAWING SCALE SHEET IDENTIFIER FOR LOCATION OF DETAIL	GLASS TYP
DETAIL/PLAN KEY	SECTION K
DETAIL LOCATION ON SHEET GRID TERMINATION OF SECTION A1 A-101 SHEET IDENTIFIER FOR LOCATION OF DETAIL	A1 A-101
ENLARGED DETAIL INDICATOR DETAIL LOCATION ON SHEET GRID A1 A-201 SHEET IDENTIFIER FOR LOCATION OF DETAIL	A1 A-101
BUILDING ELEVATION KEY	INTERIOR E
ELEVATION LOCATION ON SHEET GRID SHEET IDENTIFIER FOR LOCATION OF ELEVATION DIRECTION OF ELEVATION	1 A-801

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RMINATION OF SECTION	A1 A-101 SHEET IDENTIFIER FOR LOCATION OF SECTION	 <u>ALTERNATES TO BASE BID</u> RENOVATE EXISTING GROUP RESTROOM IN PUBLIC WORKS BUILDING. PROVIDE TWO PORT-O-JON EMERGENCY BACKUP. REMOVE FOUR (4) EXISTING HVAC SYSTEMS (EQUIPMENT ONLY) IN THE PUBLIC WORKS BUILDING, J
ATOR TAIL LOCATION ON SHEET GRID A1 A-201 EET IDENTIFIER FOR CATION OF DETAIL Y ION LOCATION ON SHEET GRID	DIRECTION OF SECTION WALL SECTION LOCATION ON SHEET GRID A1 A-101 TERMINATION OF SECTION SHEET IDENTIFIER FOR LOCATION OF SECTION INTERIOR ELEVATION KEY ELEVATION LOCATION ON SHEET GRID SHEET IDENTIFIER FOR	REPLACE WITH NEW. EQUIPMENT INCLUDES AN OUTDOOR CONDENSING UNITS, INDOOR GAS FUR
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Newberry County Detention Center Construction Phasing Plan

> Main Detention Center (not including Kitchen) Area A – <u>215 Calendar Days</u> to Achieve Substantial Completion from the City of Newberry and the State Department of Corrections. All related punch list work in these areas will have to be done within the overall timeframe allowed.

Main Detention Center Kitchen Renovations – <u>90 Calendar Days</u> to achieve agency approval from DHEC, the State Department of Corrections, and any other City or County official.

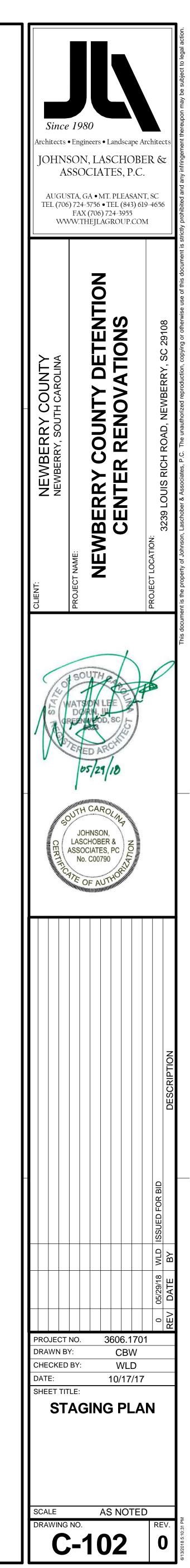
Magistrate Suite & Locker Room Toilets/Main Lobby/Court Rooms/Public Restrooms, Area B ... <u>123 Calendar Days</u>. Owner will turn over Area B for the General Contractor on or about **October 1, 2018.** Area B shall achieve Substantial Completion from the City of Newberry and State Department of Corrections no later than or before Area A.

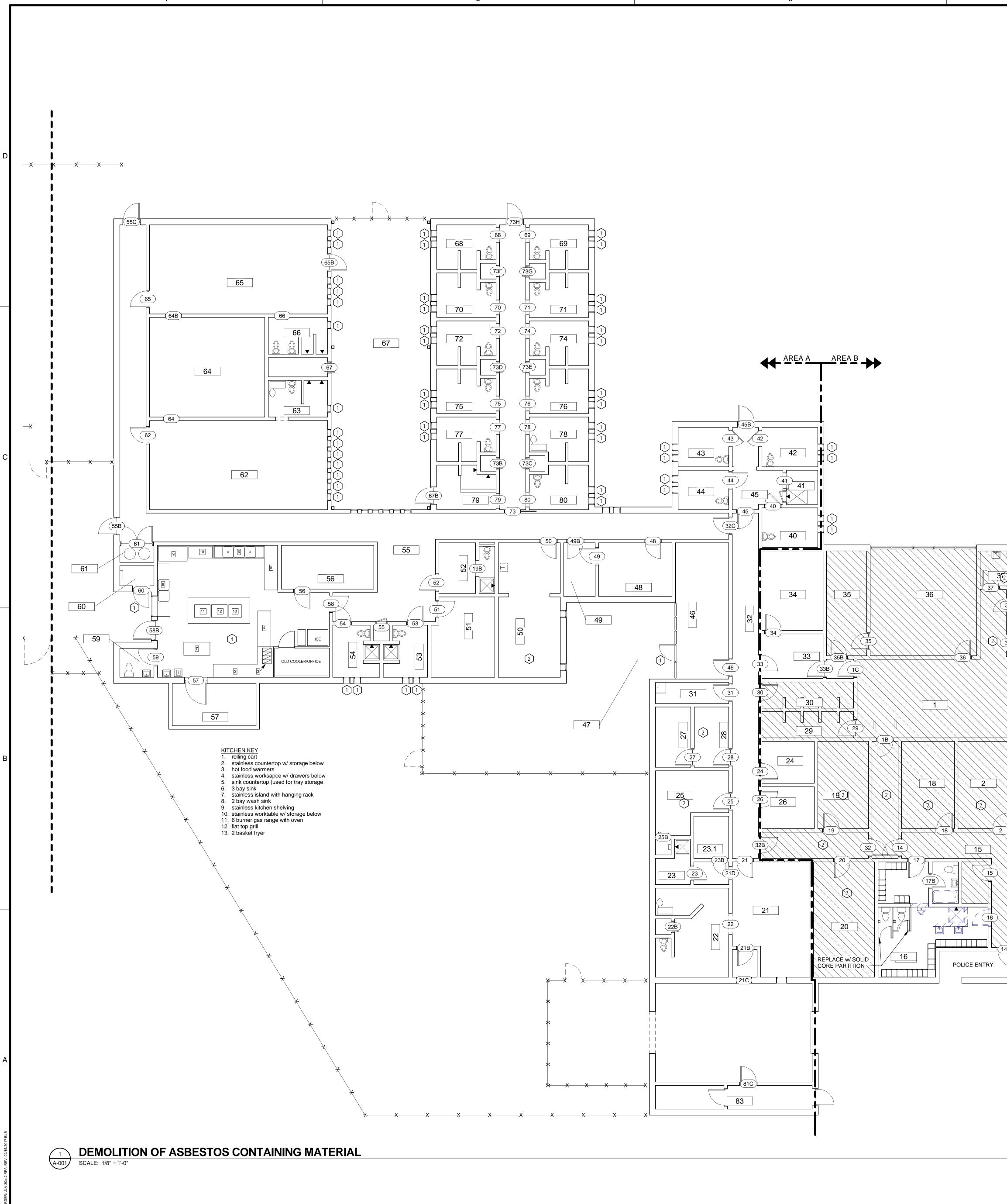
Public Works Building - Alternates No. 1 Plumbing and Shower Improvements and No. 2 Mechanical System Replacements.

PW Building, Based upon the award of alternates No. 1 and No. 2, the General Contractor will be allowed thirty (30) days to complete the associated scope of work. The thirty (30) days will commence only after the shop drawing and submittals are returned as approved by the design professional and only after the contractor has procured all the necessary materials, equipment, and labor needed to complete the work in full. In addition to having the necessary items, proper notification must be given to Captain Daniel Floyd, so that temporary measures can be implemented for the employees and work release individuals within this facility. Replacement of the new Split System Mechanical units will need to be coordinated in a manner so as not to render the complete building without air conditioning at one time. The heating side of the new systems will need to be operable no later than mid October 2018 or temporary heating measures will need to be provided by the General Contractor of record.

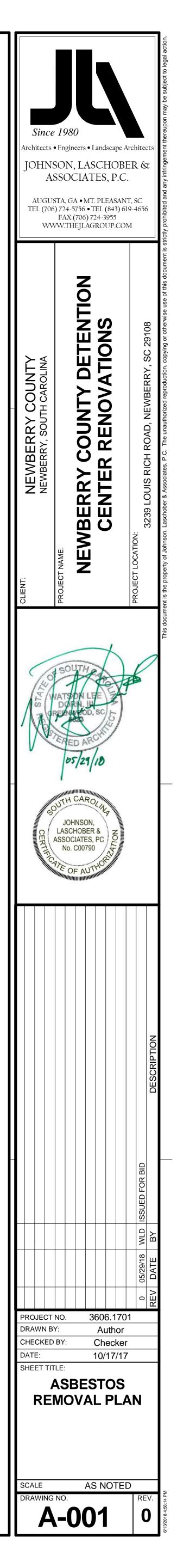
GENERAL NOTES:

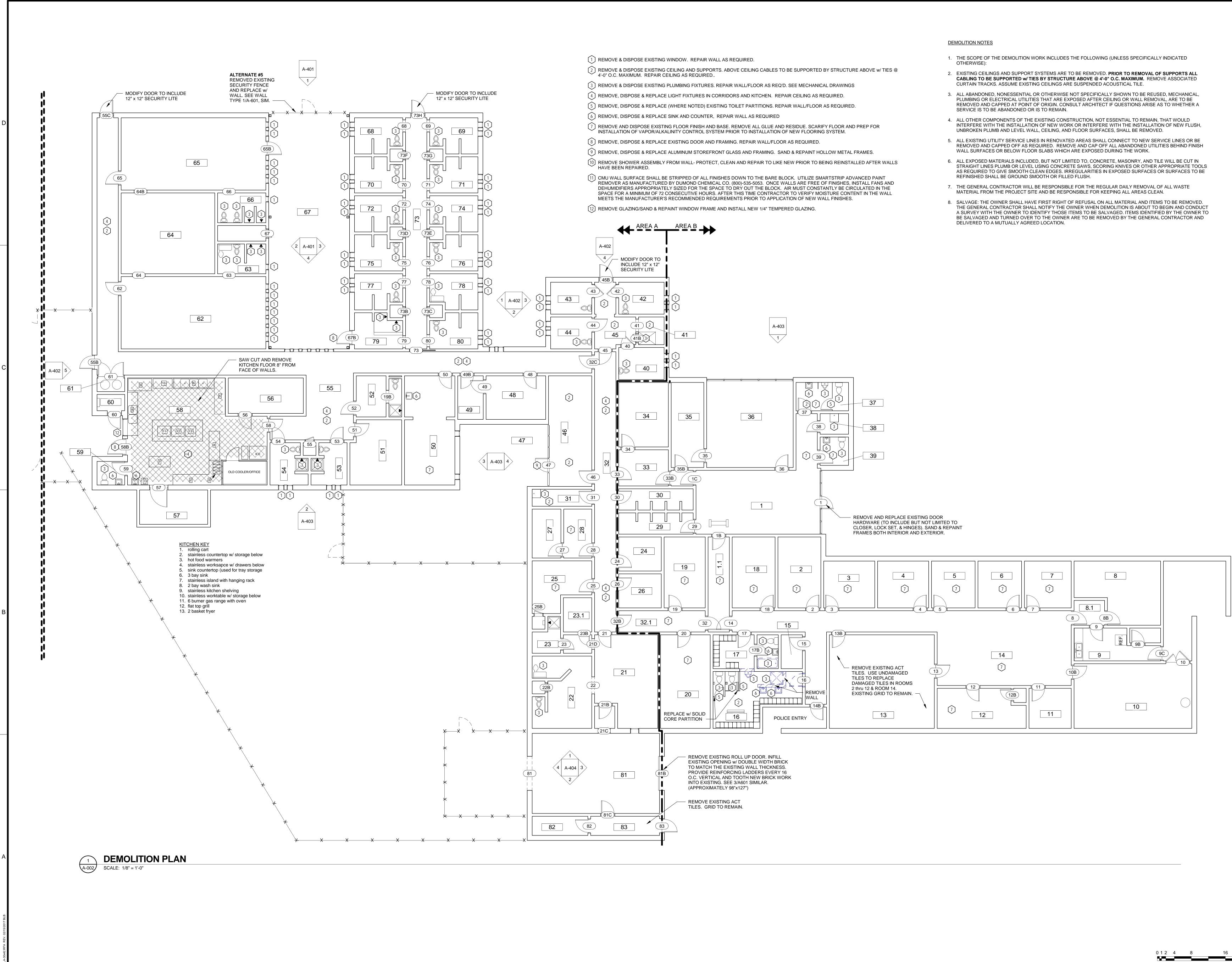
- ALL GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO PRE-CONSTRUCTION STATUS AT THE END OF THE PROJECT. GRADE SMOOTH THE AREAS WHERE CONSTRUCTION TRAFFIC DISRUPTED SITE WATER FLOW AND RESEED.
- 2. FENCING THAT IS SCHEDULED TO BE REMOVED SHALL BE DONE IN SUCH A MANNER AS TO PROTECT AND ALLOW THE FENCE TO BE REINSTALLED AT THE COMPLETION OF THE PROJECT. ANY FENCING THAT IS DAMAGED WILL BE REPLACED BY THE GENERAL CONTRACTOR.
- 3. CONSTRUCTION TO MAINTAIN SITE ACCESSIBILITY TO THE EMPLOYEE/ MAGISTRATE COURT/ VISITOR PARKING AREAS AT ALL TIMES.
- 4. CONSTRUCT TEMPORARY SAFETY FENCING AS INDICATED TO PROVIDE A SEPARATION BETWEEN THE CONSTRUCTION AREA AND ENTRANCE TO THE BUILDING.
- MAINTAIN A CLEAR PATH OF TRAVEL FROM THE SECURITY GATE TO THE PUBLIC WORKS BUILDING FOR DETENTION CENTER TRANSPORT OF INMATES.





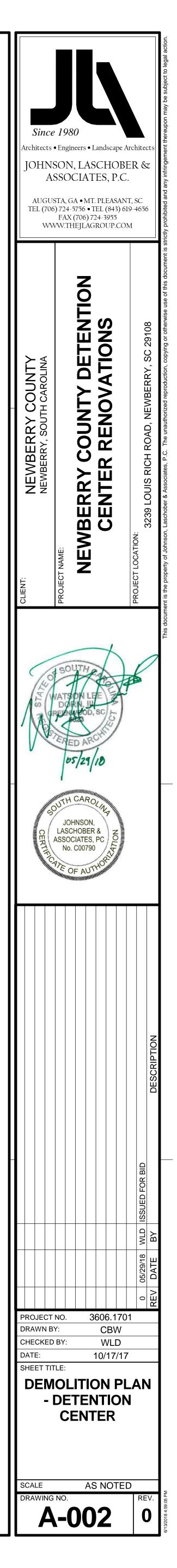
	NOTES: 1 CAULK AS IDENTIFIED ON REPORT PRIOR TO REMOVING WINDOWS. 2 REMOVE AND DISPOSE EXISTING FLOOR FINISH AND BASE. REMOVE ALL GLUE AND RESIDUE. SCARIFY FLOOR AND PREP FOR INSTALLATION OF VAPOR/ALKALINITY CONTROL SYSTEM PRIOR TO INSTALLATION OF NEW FLOORING SYSTEM.
	ASBESTOS ABATEMENT NEWBERRY COUNTY DETENTION CENTER NEWBERRY, SC THE SCOPE OF WORK IS TO REMOVE AND PROPERLY DISPOSE THE ASBESTOS CONTAINING MATERIALS (ACM) FROM THE INTERIOR SPACE OF NEWBERRY DETENTION CENTER LOCATED AT 3239 LOUIS RICH RD #D, NEWBERRY,
	SC 29108 THE MATERIAL TO BE REMOVED INCLUDES VINYL FLOOR TILE, MASTIC, AND WINDOW CAULK. THE FIRMS SUBMITTING A QUOTATION FOR THE WORK SHALL BE PROPERLY LICENSE BY THE STATE OF SOUTH CAROLINA AND CERTIFIED BY THE SCDHEC AS AN ASBESTOS ABATEMENT CONTRACTOR. THE ABATEMENT CONTRACTOR SHALL CONFORM TO ALL STATE AND FEDERAL REQUIREMENTS.
	REGULATIONS AND SPECIFICATIONS FOR THE ABATEMENT: 1. SCDHEC REGULATIONS 61-86.1- STANDARDS OF PERFORMANCE FOR ASBESTOS PROJECTS 2. OSHA ASBESTOS STANDARD 1926.1101 3. NESHAP 40 CFR SUBPART M- NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS
V X X	THE ABATEMENT CONTRACTOR SHALL CONFORM TO THE SCDHEC PERMITTING AND POSTING REQUIREMENTS. THE APPROXIMATE QUANTITIES OF ACM AND LOCATIONS ARE REFERENCED IN THE ASBESTOS & LEAD-BASED PAINT ASSESSMENT REPORT (PROJECT NO. 4261-17-213) BY S&ME BEFORE DEMOLITION OF ANY SURFACES.
	REFERENCE 1/A-001 FOR LOCATION OF ACM. A SITE VISIT IS REQUIRED TO VERIFY THE AREAS AND IDENTIFY ACCESS AND BARRIER LOCATIONS. THE CONTRACTOR MUST REQUEST AND OBTAIN CONFIRMATION OF THE SITE VISIT. REQUEST FOR SITE VISIT SHALL BE TO cwaldrop@newberrycounty.net or BRIAN LOPER, COUNTY REPRESENTITIVE AT bloper@ccorpusa.com.
	ACTUAL QUANTITIES OF REMOVED MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE FINAL AIR SAMPLING REPORTS AND THEN A FINAL WALKDOWN SHALL BE PERFORMED WITH THE OWNER FOR REMOVAL VERIFICATIONS AND CLEAN UP PRIOR TO PAYMENT.
39 29	AN ASSESSMENT REPORT PROVIDED BY S&ME, INC. DATED DECEMBER 11 & 15, 2017 IS INCLUDED IN THE SPECIFICATIONS AS INFORMATION FOR FURTHER MATERIAL DETAIL AND SAMPLING RESULTS.
	CARPET AND ALL VINYL FLOOR TILES TO BE REMOVED IN HATCHED AREA. BLACK MASTIC BENEATH TILES TO BE REMOVED AND CONTAINED IN IT'S ENTIRETY DUE TO ACM MATERIALS.
13 14B	





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

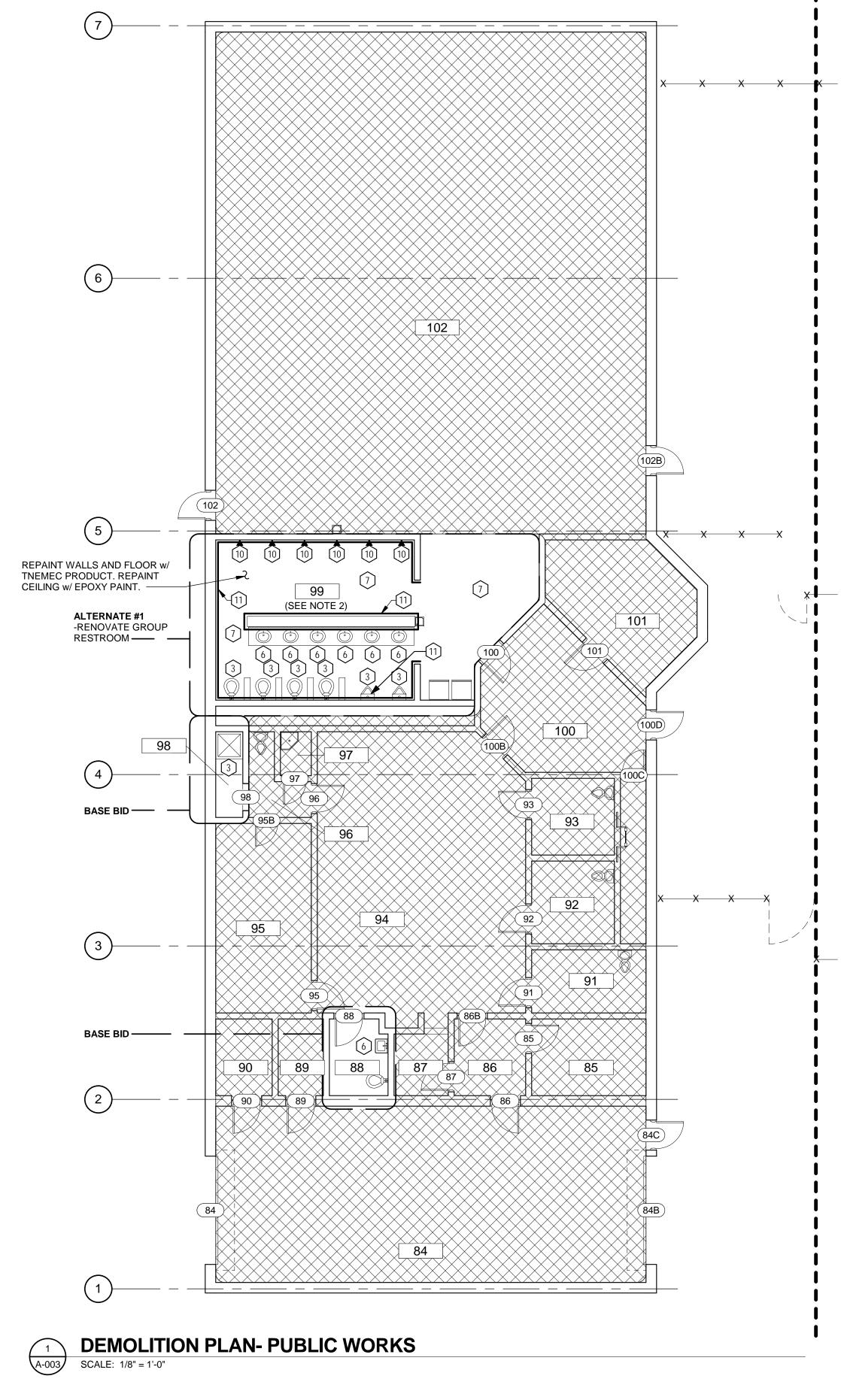
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DER: JLA-30x42.RFA REV. 02/15/2017 BLB		
BORDER: JLA-30x42.RFA REV. 02/15/2017 BLB	1	

DEMOLITION NOTES

- 1. THE SCOPE OF THE DEMOLITION WORK INCLUDES THE FOLLOWING (UNLESS SPECIFICALLY INDICATED OTHERWISE):
- 2. ALL FIXTURES AND SURFACES TO INCLUDE BUT NOT LIMITED TO SINKS, TOILETS URINALS, SHOWER HEADS, COUNTERTOPS, FLOORING, WALL PAINT, HVAC, VENTILATION GRILLES, AND LIGHTING IN SHOWER ROOM (92) TO BE REMOVED AND/OR DEMOLISHED.
- 3. ALL OTHER COMPONENTS OF THE EXISTING CONSTRUCTION, NOT ESSENTIAL TO REMAIN, THAT WOULD INTERFERE WITH THE INSTALLATION OF NEW WORK OR INTERFERE WITH THE INSTALLATION OF NEW FLUSH, UNBROKEN PLUMB AND LEVEL WALL, CEILING, AND FLOOR SURFACES, SHALL BE REMOVED.
- CUT IN STRAIGHT LINES PLUMB OR LEVEL USING CONCRETE SAWS, SCORING KNIVES OR OTHER APPROPRIATE TOOLS AS REQUIRED TO GIVE SMOOTH CLEAN EDGES. IRREGULARITIES IN EXPOSED SURFACES OR SURFACES TO BE REFINISHED SHALL BE GROUND SMOOTH OR FILLED FLUSH.
- WASTE MATERIAL FROM THE PROJECT SITE AND BE RESPONSIBLE FOR KEEPING ALL AREAS CLEAN. 6. SALVAGE: THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL MATERIAL AND ITEMS TO BE REMOVED. THE GENERAL CONTRACTOR SHALL NOTIFY THE OWNER WHEN DEMOLITION IS ABOUT TO BEGIN AND CONDUCT A SURVEY WITH THE OWNER TO IDENTIFY THOSE ITEMS TO BE SALVAGED. ITEMS IDENTIFIED BY THE OWNER TO BE SALVAGED AND TURNED OVER TO THE OWNER ARE TO BE



4

NO WORK IN THIS AREA

4. ALL EXPOSED MATERIALS INCLUDED, BUT NOT LIMITED TO, CONCRETE, MASONRY, AND TILE WILL BE

5. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR THE REGULAR DAILY REMOVAL OF ALL

REMOVED BY THE GENERAL CONTRACTOR AND DELIVERED TO A MUTUALLY AGREED LOCATION.

VAPOR/ALKALINITY CONTROL SYSTEM PRIOR TO INSTALLATION OF NEW FLOORING SYSTEM. (8) REMOVE, DISPOSE & REPLACE EXISTING DOOR AND FRAMING. REPAIR WALL/FLOOR AS REQUIRED.

(9) REMOVE, DISPOSE & REPLACE STOREFRONT GLASS AND FRAMING. (10) REMOVE SHOWER ASSEMBLY FROM WALL- PROTECT, CLEAN AND REPAIR TO LIKE NEW PRIOR TO BEING REINSTALLED AFTER WALLS HAVE BEEN REPAIRED.

[11] CMU WALL SURFACE SHALL BE STRIPPED OF ALL FINISHES DOWN TO THE BARE BLOCK. UTILIZE SMARTSTRIP ADVANCED PAINT REMOVER AS MANUFACTURED BY DUMOND CHEMICAL CO. (800)-535-5053. ONCE WALLS ARE FREE OF FINISHES, INSTALL FANS AND DEHUMIDIFIERS APPROPRIATELY SIZED FOR THE SPACE TO DRY OUT THE BLOCK. AIR MUST CONSTANTLY BE CIRCULATED IN THE SPACE FOR A MINIMUM OF 72 CONSECUTIVE HOURS. AFTER THIS TIME CONTRACTOR TO VERIFY MOISTURE CONTENT IN THE WALL MEETS THE MANUFACTURER'S RECOMMENDED REQUIREMENTS PRIOR TO APPLICATION OF NEW WALL FINISHES.



01248 16 24 FT. SCALE: 1/8" = 1'-0"

<u>KEY NOTES</u>

 $\widehat{(1)}$ REMOVE & DISPOSE EXISTING WINDOW. REPAIR WALL AS REQUIRED.

(2) REMOVE & DISPOSE EXISTING CEILING AND SUPPORTS. REPAIR CEILING AS REQUIRED. ABOVE CEILING CABLES TO BE SUPPORTED BY STRUCTURE w/ TIES @ 4'-0" O.C. MAX.

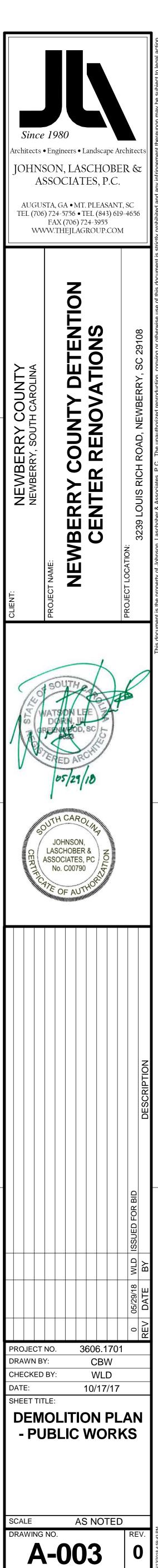
(3) REMOVE & DISPOSE EXISTING PLUMBING FIXTURES. REPAIR WALL/FLOOR AS REQ'D. SEE MECHANICAL DRAWINGS

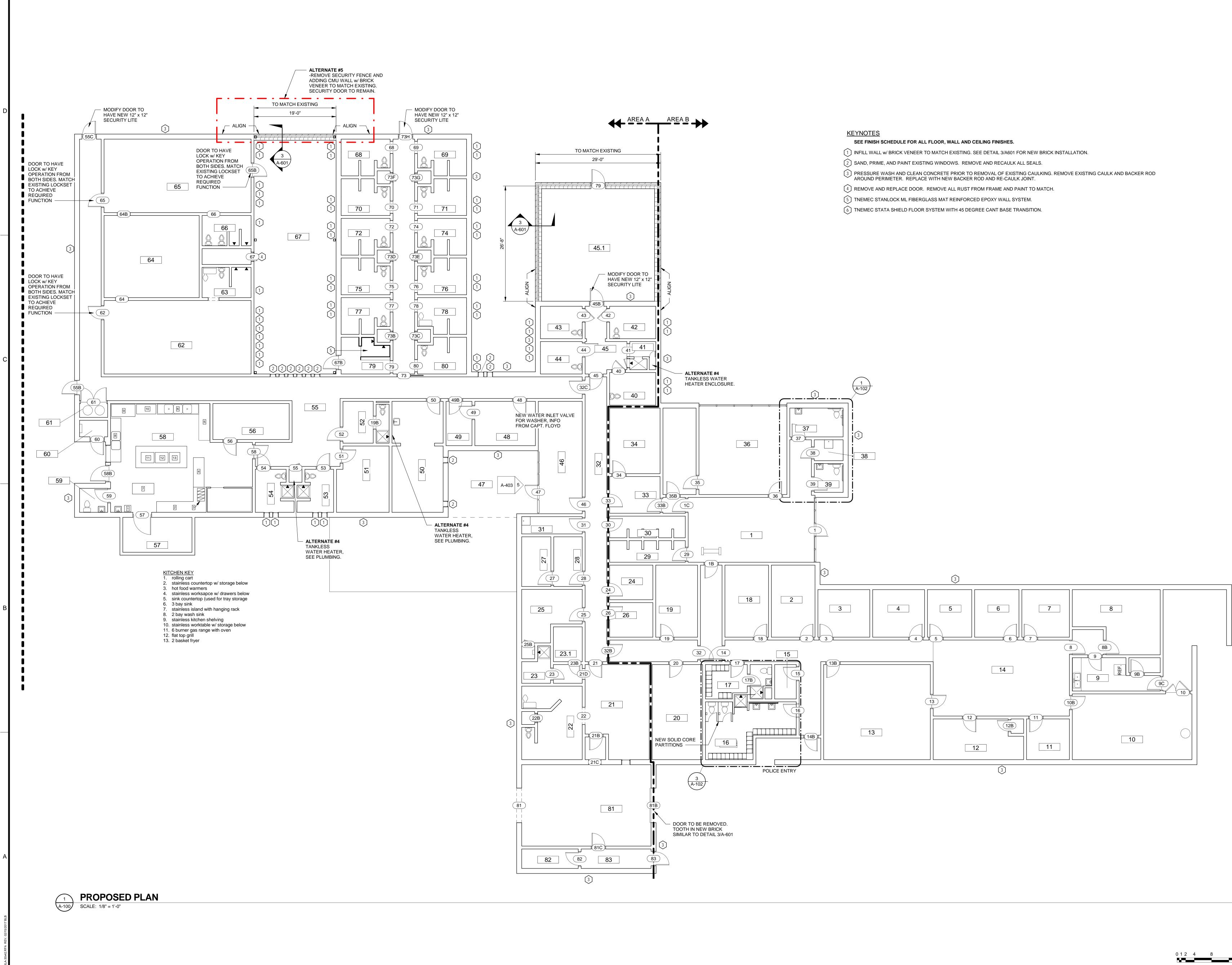
(4) REMOVE, DISPOSE & REPLACE LIGHT FIXTURES IN CORRIDORS AND KITCHEN. REPAIR CEILING AS REQUIRED.

(5) REMOVE, DISPOSE & REPLACE (WHERE NOTED) EXISTING TOILET PARTITIONS. REPAIR WALL/FLOOR AS REQUIRED.

(6) REMOVE, DISPOSE & REPLACE SINK AND COUNTER, REPAIR WALL AS REQUIRED (7) REMOVE AND DISPOSE EXISTING FLOOR FINISH AND BASE. REMOVE ALL RESIDUE. SCARIFY FLOOR AND PREP FOR INSTALLATION OF



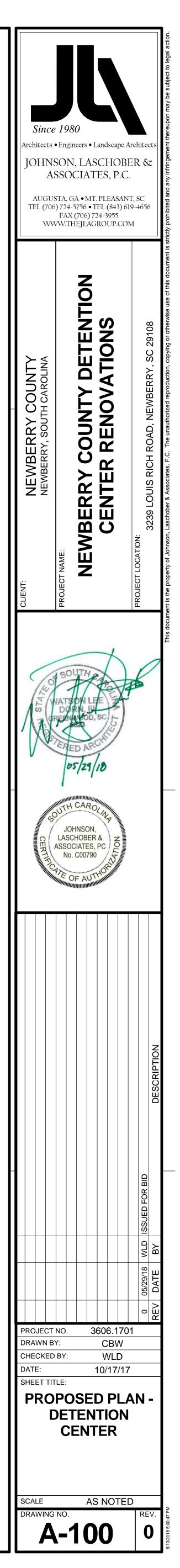




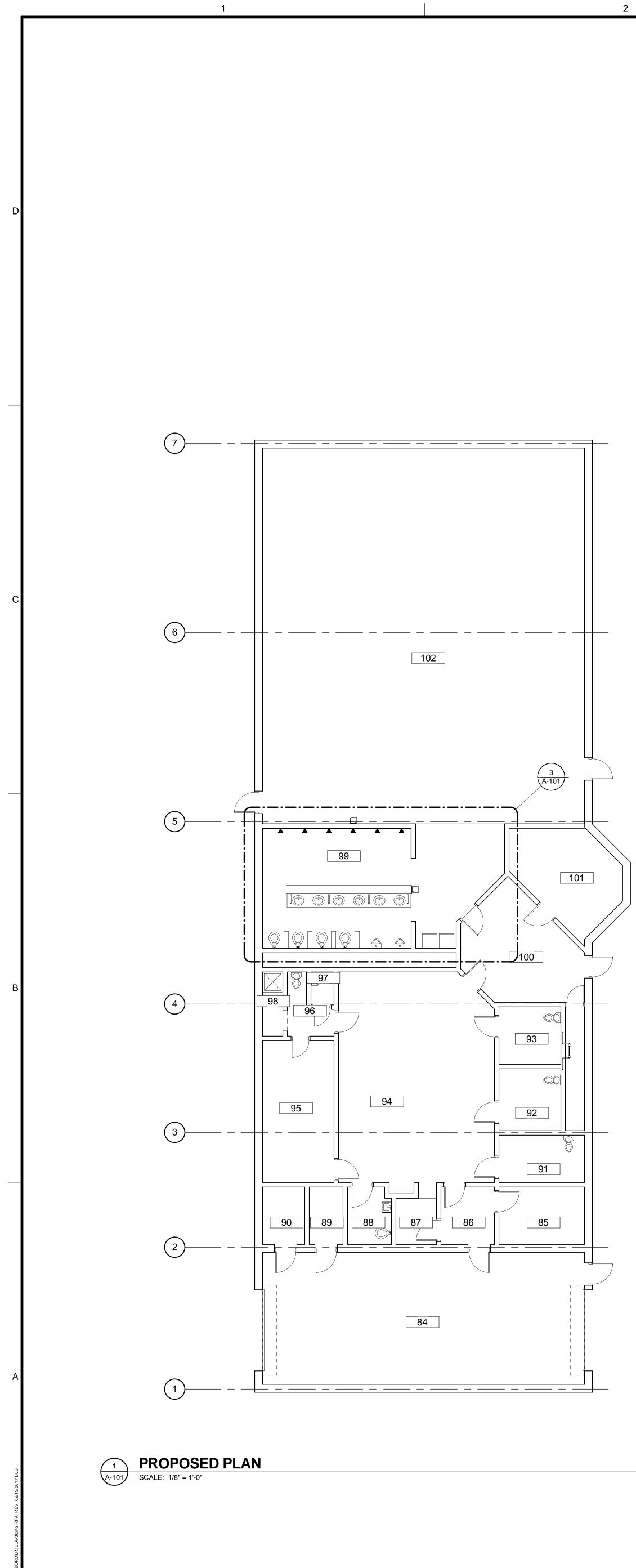
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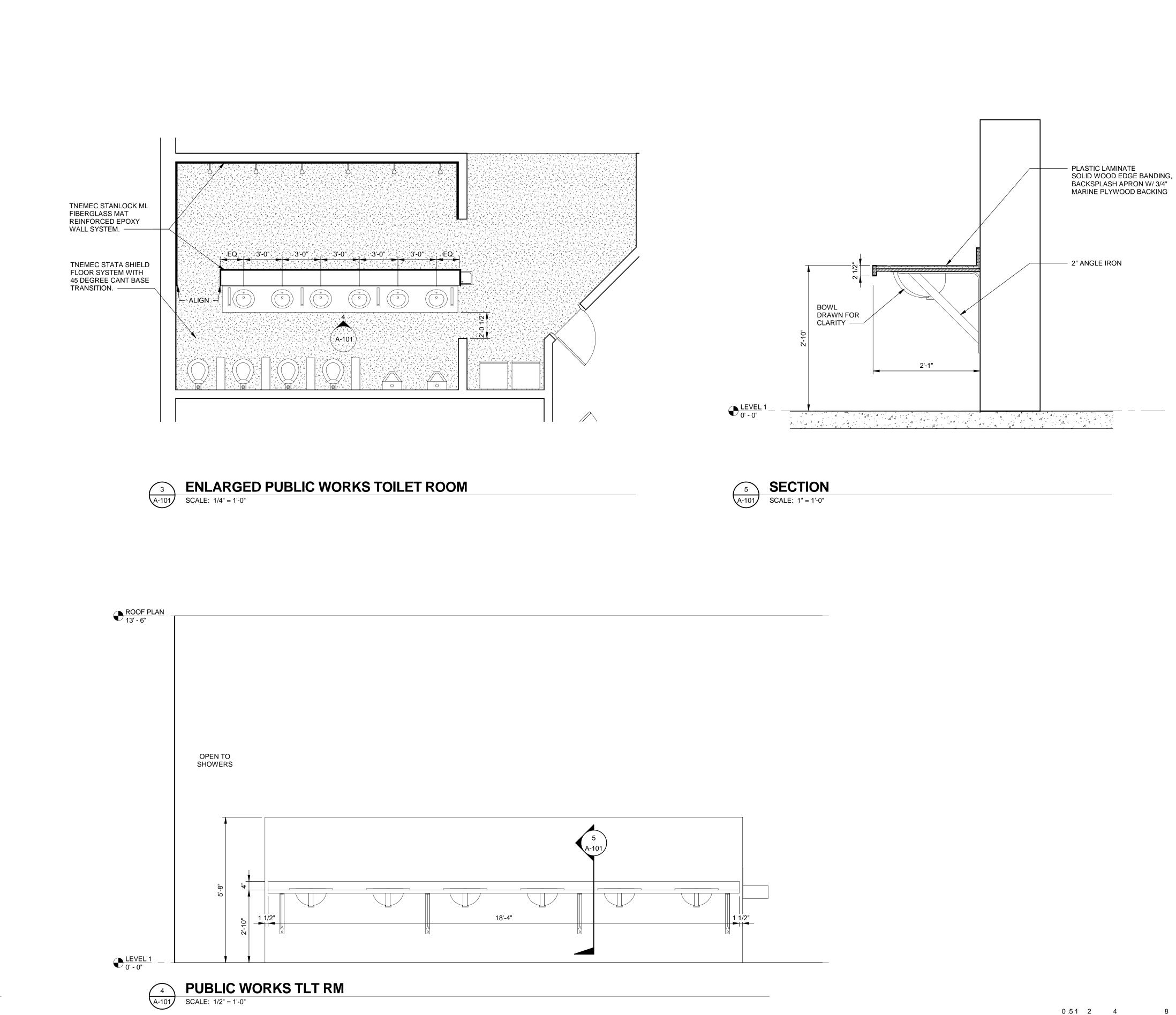
16 24 FT. SCALE: 1/8" = 1'-0"



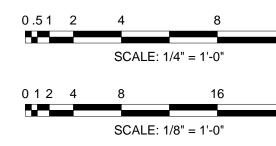




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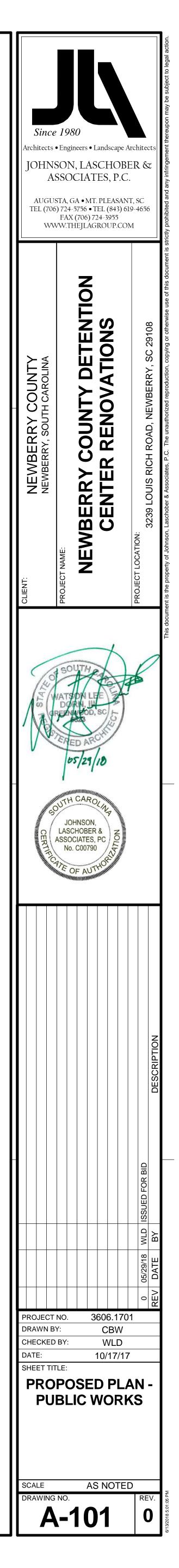


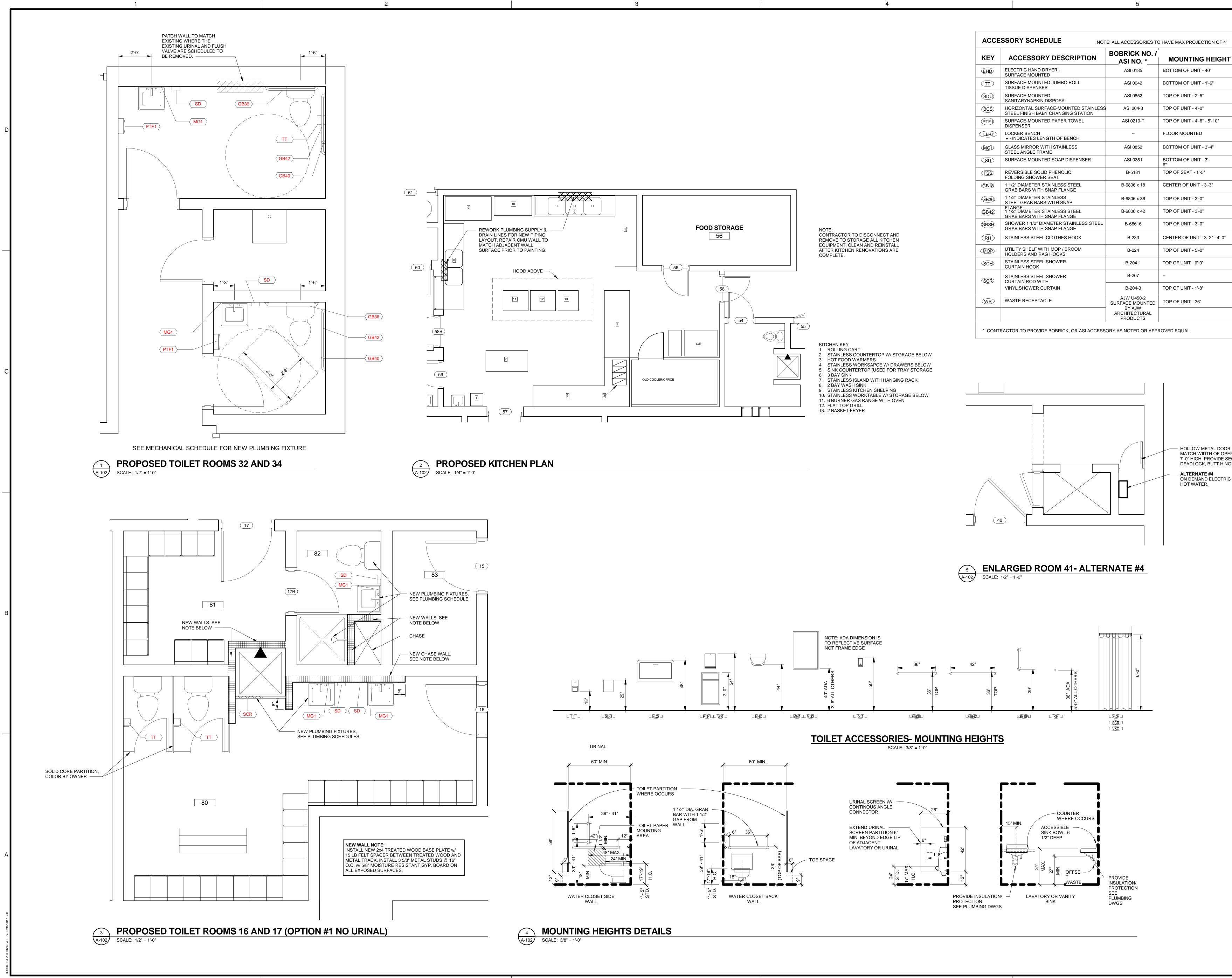
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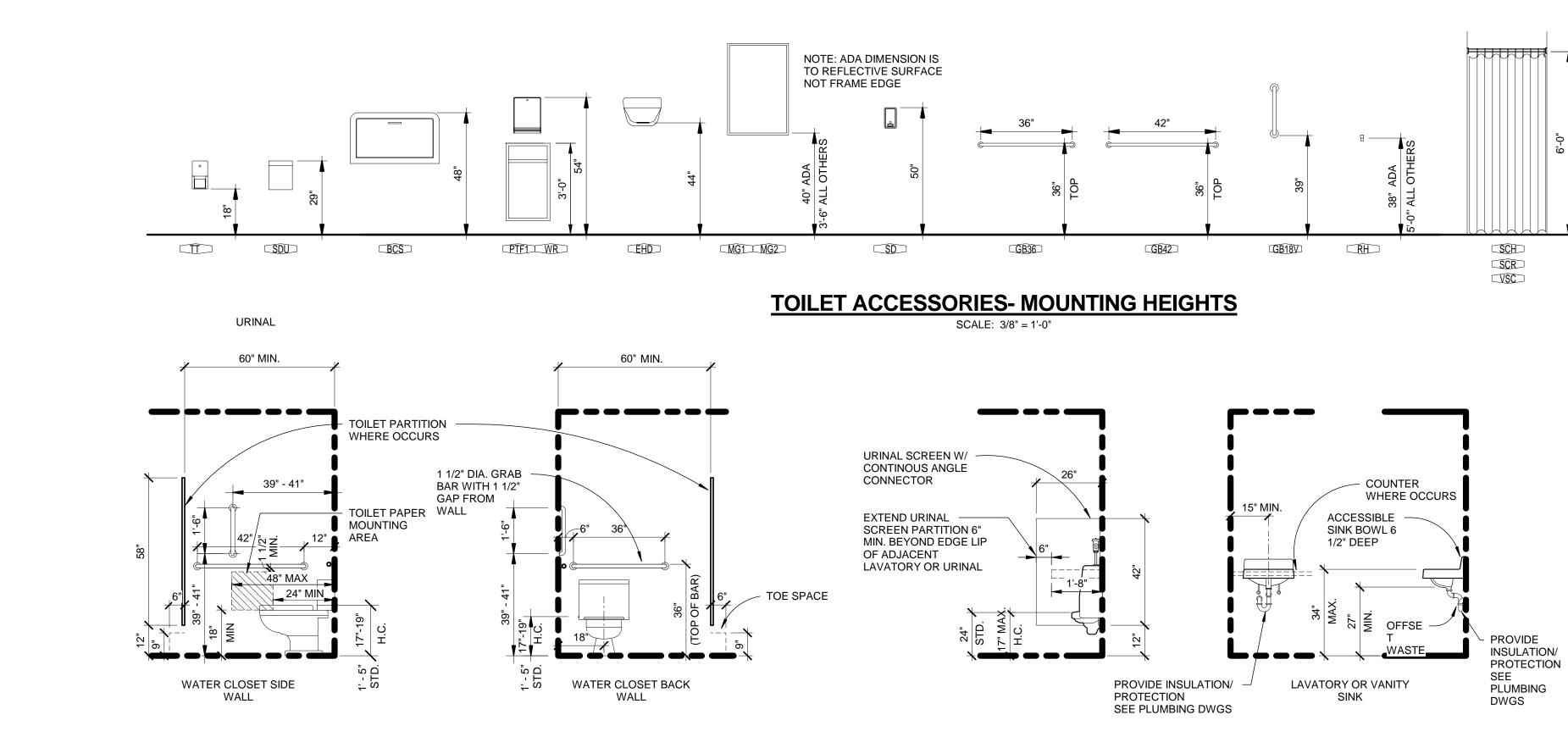
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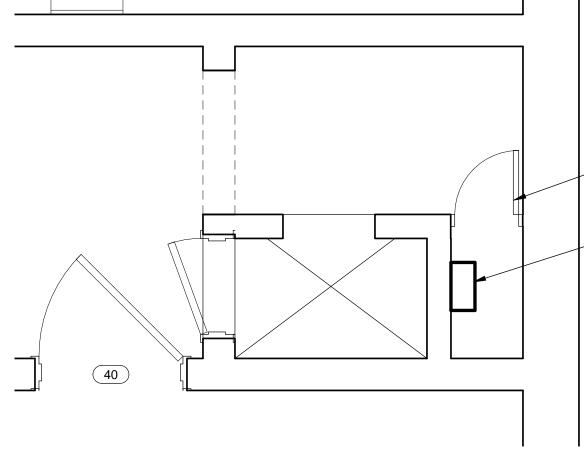






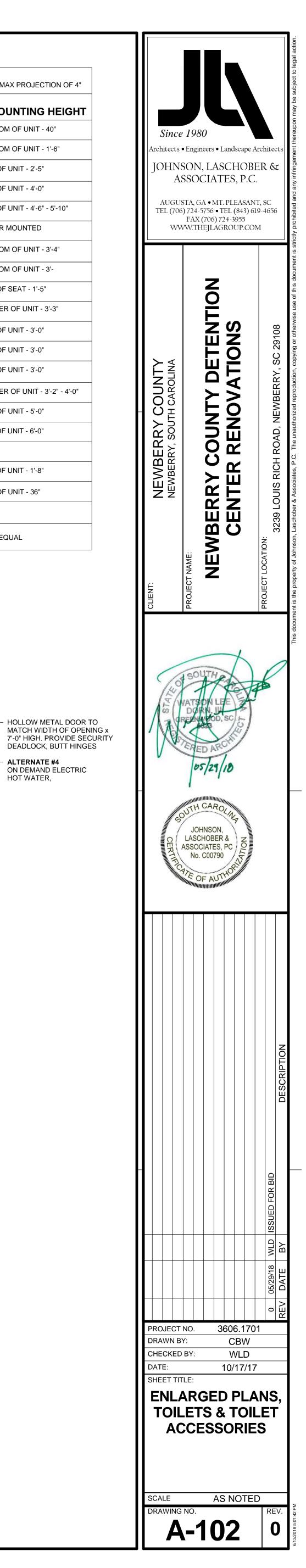
KEY	ACCESSORY DESCRIPTION	BOBRICK NO. / ASI NO. *	MOUNTING HEIGHT			
EHD	ELECTRIC HAND DRYER - SURFACE MOUNTED	ASI 0185	BOTTOM OF UNIT - 40"			
T	SURFACE-MOUNTED JUMBO ROLL TISSUE DISPENSER	ASI 0042	BOTTOM OF UNIT - 1'-6"			
SDU	SURFACE-MOUNTED SANITARYNAPKIN DISPOSAL	ASI 0852	TOP OF UNIT - 2'-5"			
BCS	HORIZONTAL SURFACE-MOUNTED STAINLESS STEEL FINISH BABY CHANGING STATION	ASI 204-3	TOP OF UNIT - 4'-0"			
(PTF1)	SURFACE-MOUNTED PAPER TOWEL DISPENSER	ASI 0210-T	TOP OF UNIT - 4'-6" - 5'-10"			
LB-6*	LOCKER BENCH * - INDICATES LENGTH OF BENCH		FLOOR MOUNTED			
MGD	GLASS MIRROR WITH STAINLESS STEEL ANGLE FRAME	ASI 0852	BOTTOM OF UNIT - 3'-4"			
SD	SURFACE-MOUNTED SOAP DISPENSER	ASI-0351	BOTTOM OF UNIT - 3'- 6"			
FSS	REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT	B-5181	TOP OF SEAT - 1'-5"			
GB18	1 1/2" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAP FLANGE	B-6806 x 18	CENTER OF UNIT - 3'-3"			
GB36	1 1/2" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAP	B-6806 x 36	TOP OF UNIT - 3'-0"			
(GB42)	FLANGE 1 1/2" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAP FLANGE	B-6806 x 42	TOP OF UNIT - 3'-0"			
GBSH	SHOWER 1 1/2" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAP FLANGE	B-68616 TOP OF UNIT - 3'-0"				
RH	STAINLESS STEEL CLOTHES HOOK	B-233	CENTER OF UNIT - 3'-2" - 4'-0"			
MOP	UTILITY SHELF WITH MOP / BROOM HOLDERS AND RAG HOOKS	B-224	TOP OF UNIT - 5'-0"			
SCH	STAINLESS STEEL SHOWER CURTAIN HOOK	B-204-1	TOP OF UNIT - 6'-0"			
SCR	STAINLESS STEEL SHOWER CURTAIN ROD WITH	B-207				
	VINYL SHOWER CURTAIN	B-204-3	TOP OF UNIT - 1'-8"			
WR	WASTE RECEPTACLE	AJW U450-2 SURFACE MOUNTED	TOP OF UNIT - 36"			

* CONTRACTOR TO PROVIDE BOBRICK, OR ASI ACCESSORY AS NOTED OR APPROVED EQUAL





4

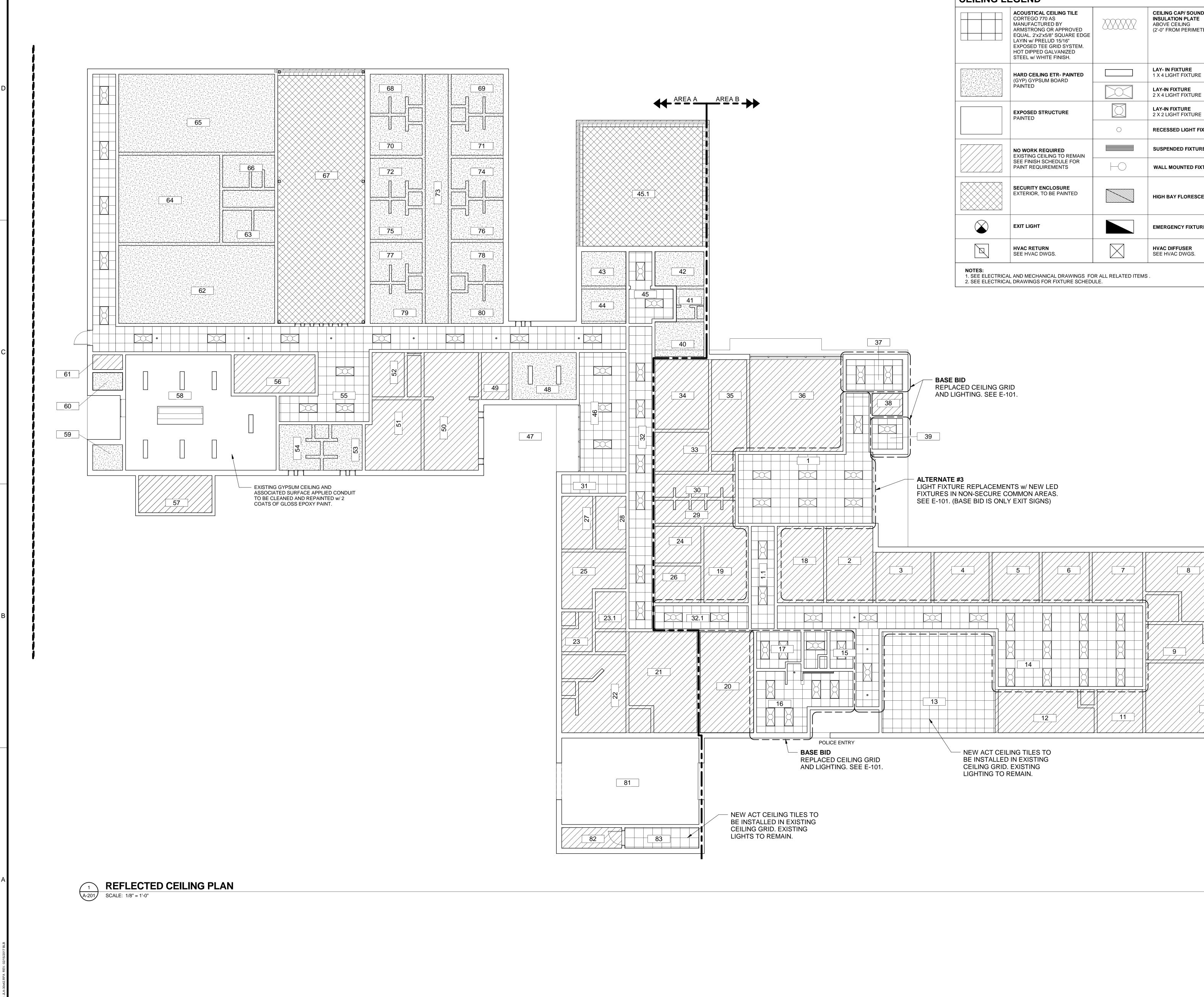


- HOLLOW METAL DOOR TO

DEADLOCK, BUTT HINGES

ON DEMAND ELECTRIC HOT WATER,

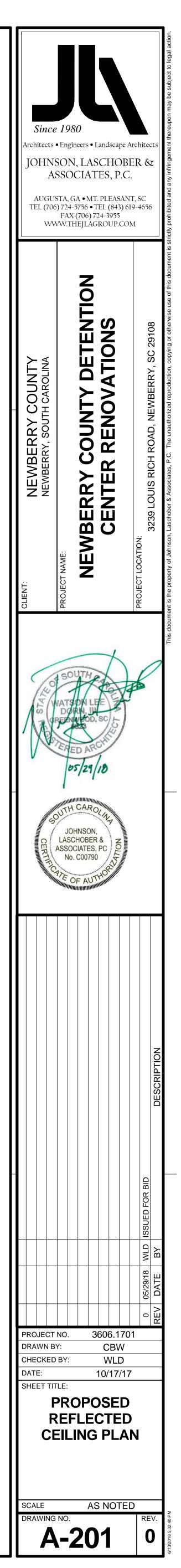
- ALTERNATE #4

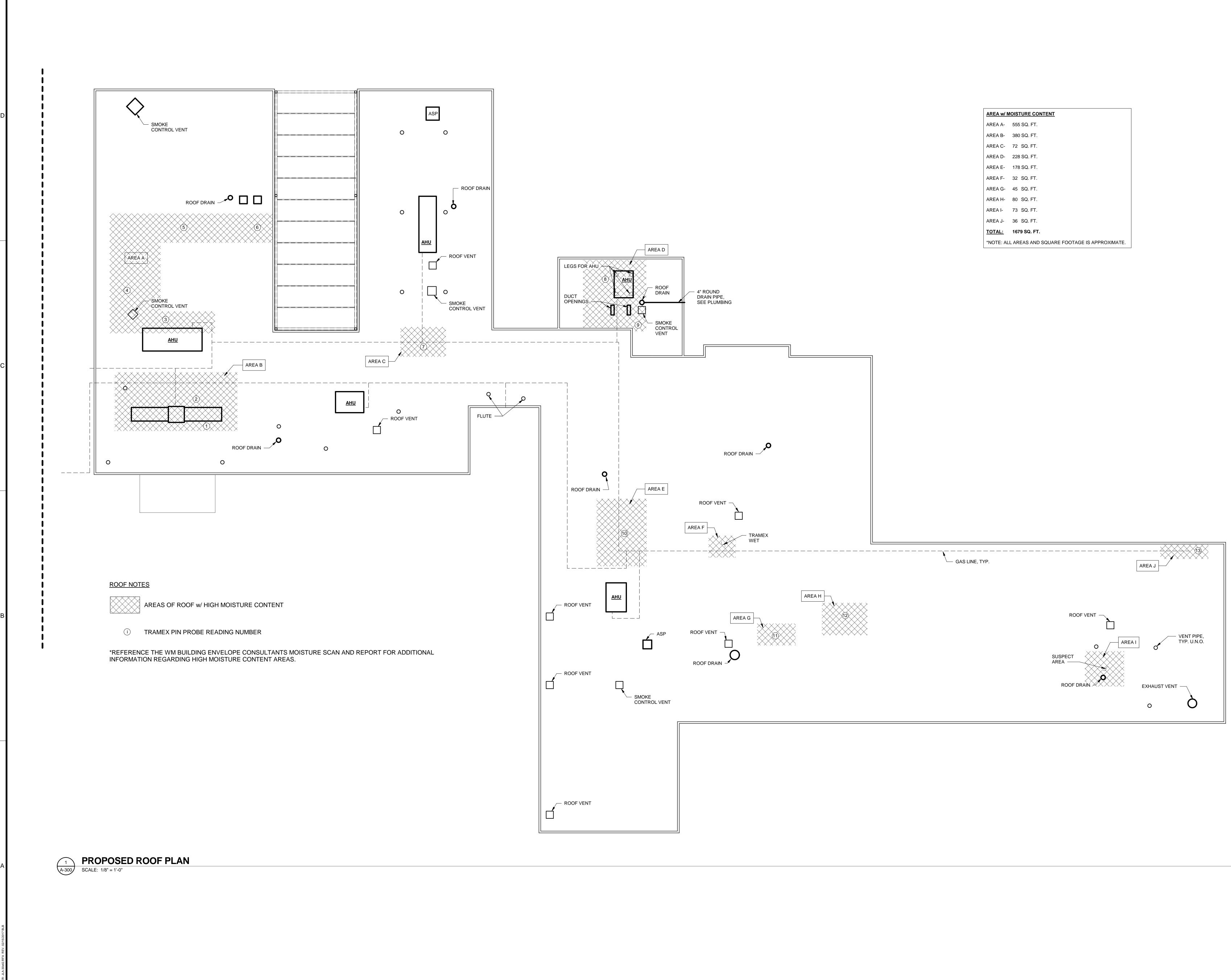


EGEND		
ACOUSTICAL CEILING TILE CORTEGO 770 AS MANUFACTURED BY ARMSTRONG OR APPROVED EQUAL. 2'x2'x5/8" SQUARE EDGE LAYIN w/ PRELUD 15/16" EXPOSED TEE GRID SYSTEM. HOT DIPPED GALVANIZED STEEL w/ WHITE FINISH.		CEILING CAP/ SOUND BARRIER INSULATION PLATE ABOVE CEILING (2'-0" FROM PERIMETER WALLS)
HARD CEILING ETR- PAINTED (GYP) GYPSUM BOARD		LAY- IN FIXTURE 1 X 4 LIGHT FIXTURE
PAINTED		LAY-IN FIXTURE 2 X 4 LIGHT FIXTURE
EXPOSED STRUCTURE PAINTED		LAY-IN FIXTURE 2 X 2 LIGHT FIXTURE
	0	RECESSED LIGHT FIXTURE
NO WORK REQUIRED EXISTING CEILING TO REMAIN		SUSPENDED FIXTURE
SEE FINISH SCHEDULE FOR PAINT REQUIREMENTS	$\vdash \bigcirc$	WALL MOUNTED FIXTURE
SECURITY ENCLOSURE EXTERIOR, TO BE PAINTED		HIGH BAY FLORESCENT
EXIT LIGHT		EMERGENCY FIXTURE
HVAC RETURN SEE HVAC DWGS.		HVAC DIFFUSER SEE HVAC DWGS.
L AND MECHANICAL DRAWINGS FO L DRAWINGS FOR FIXTURE SCHEDI		; ; .

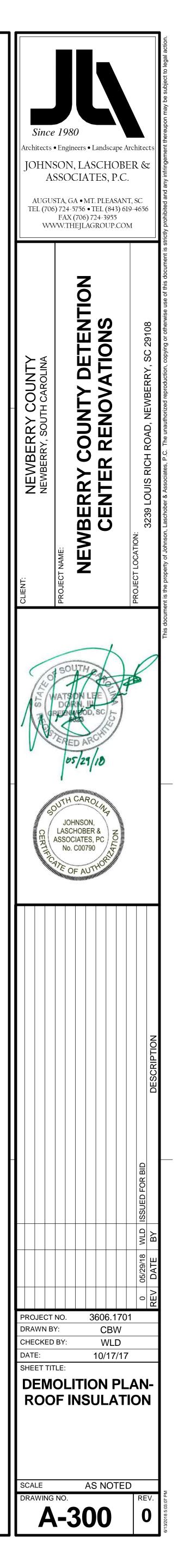
4

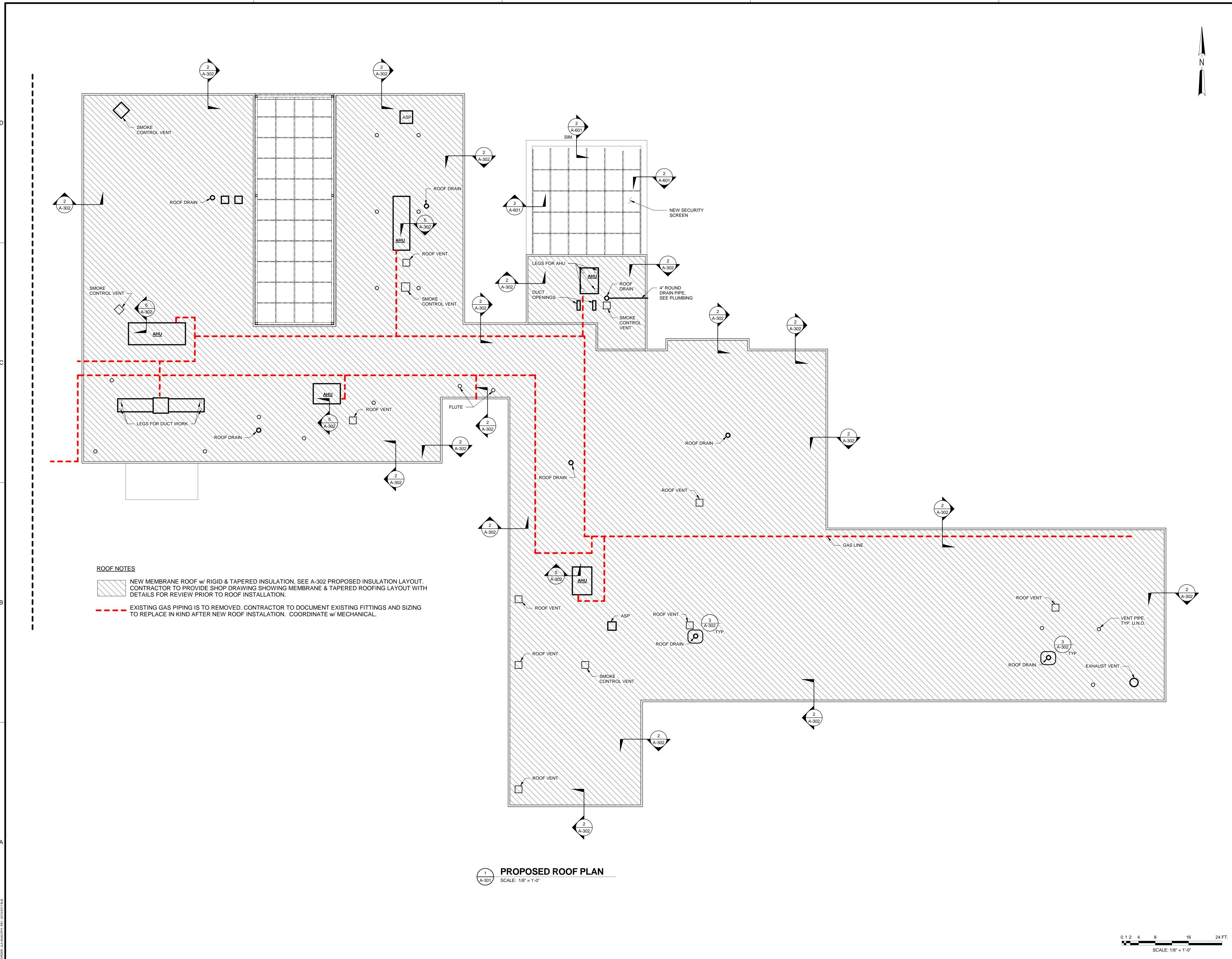
0 1 2 4 8 16 24 FT. SCALE: 1/8" = 1'-0"





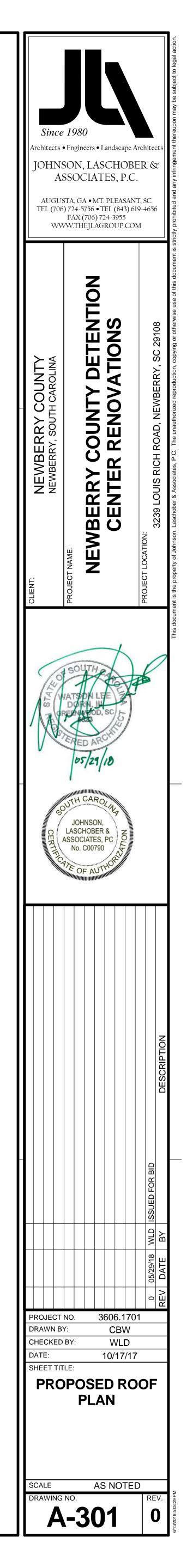
AREA w/ M	MOISTURE CONTENT
AREA A-	555 SQ. FT.
AREA B-	380 SQ. FT.
AREA C-	72 SQ. FT.
AREA D-	228 SQ. FT.
AREA E-	178 SQ. FT.
AREA F-	32 SQ. FT.
AREA G-	45 SQ. FT.
AREA H-	80 SQ. FT.
AREA I-	73 SQ. FT.
AREA J-	36 SQ. FT.
TOTAL:	1679 SQ. FT.
*NOTE: AL	L AREAS AND SQUARE FOOTAGE IS APPROXIMATE.

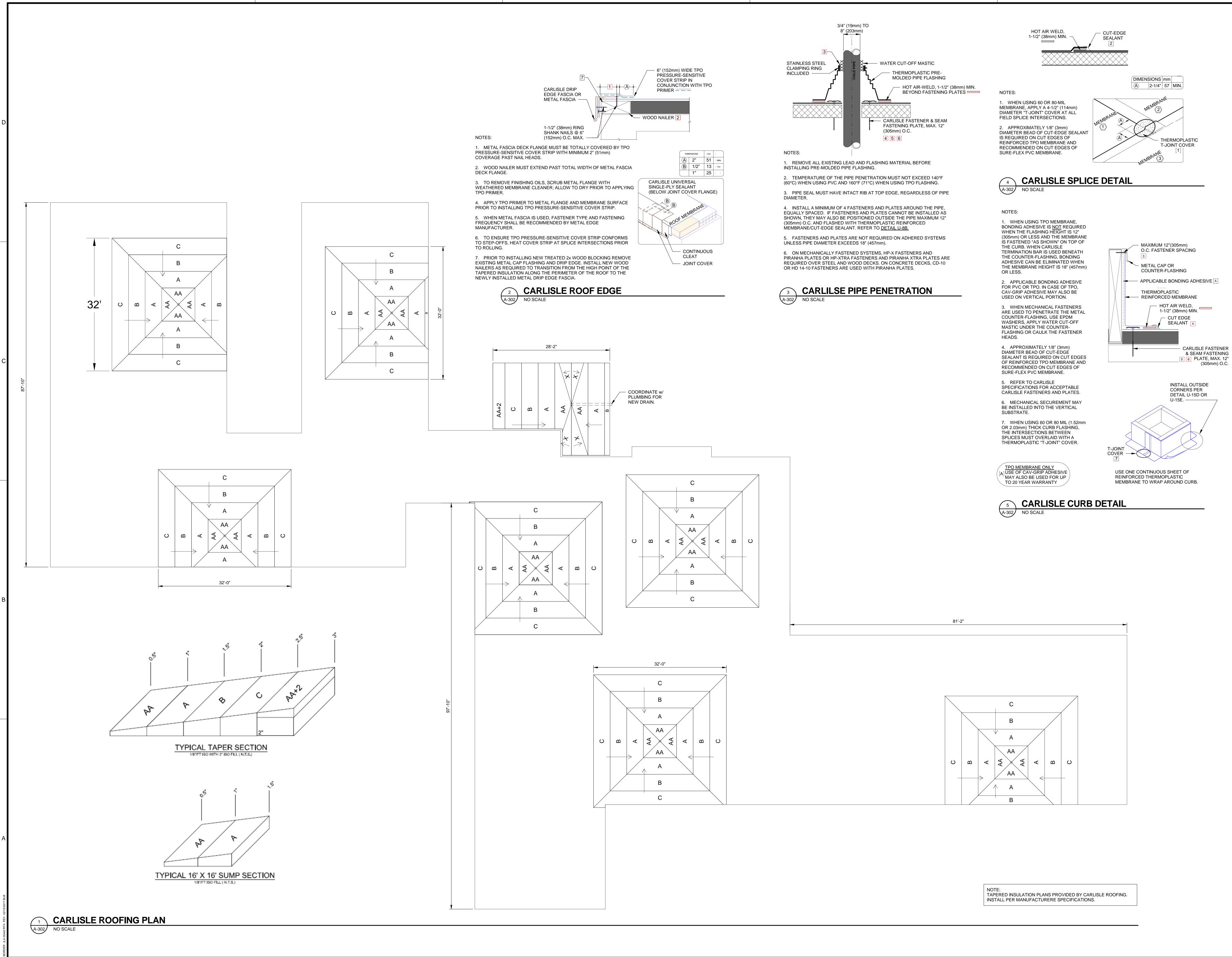


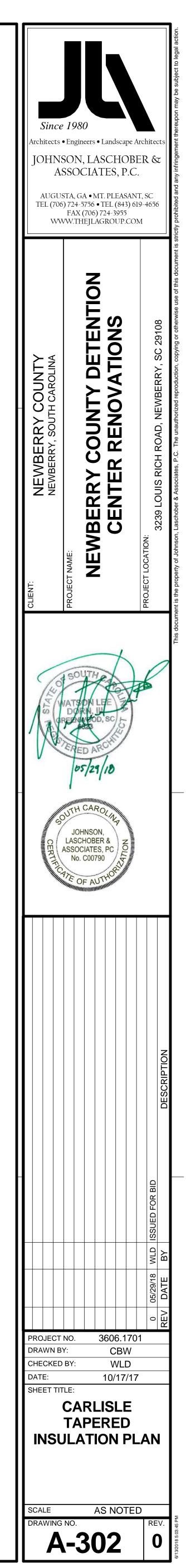


- 3

012	4	8	16
		SCALE:	1/8" = 1'-0"







(305mm) O.C.



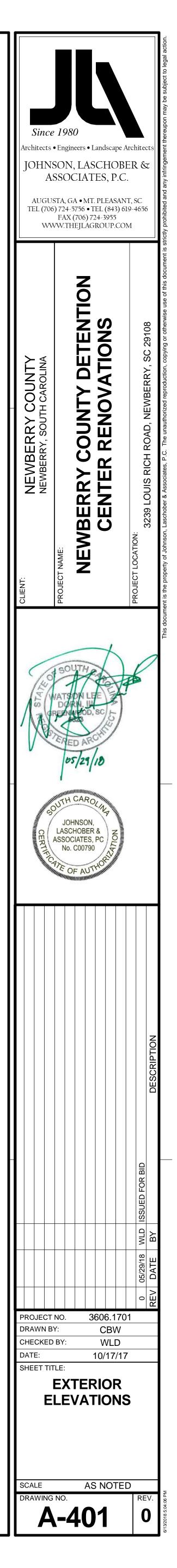
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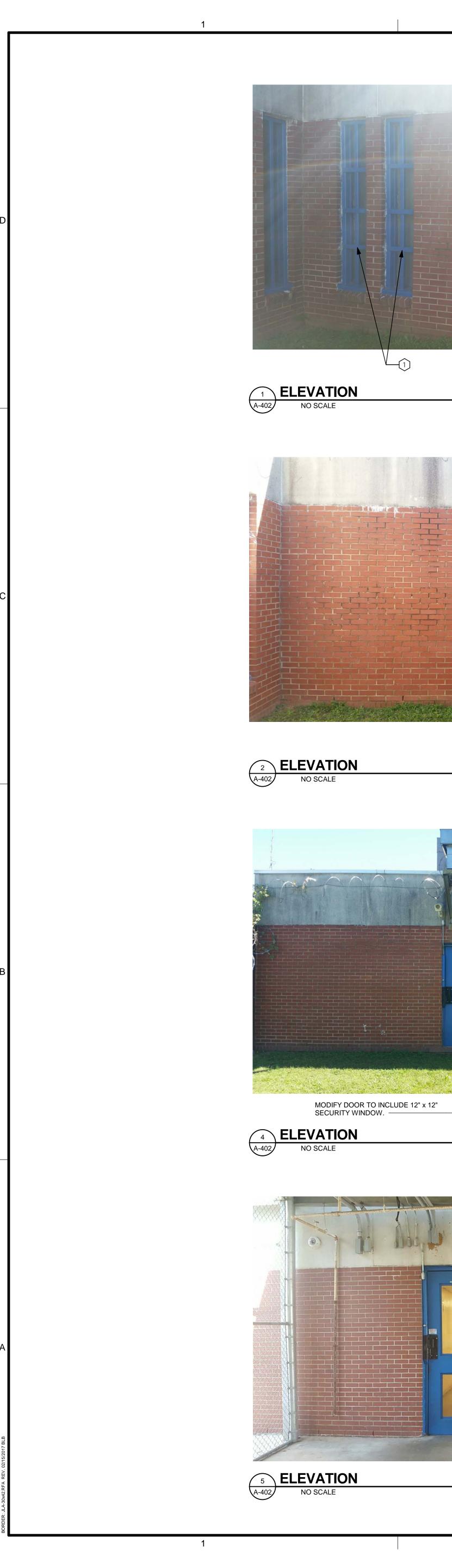
- 3

WASHED. AFTER AREAS HAVE DRIED REMOVE EXISTING CAULK AND BACKER ROD AROUND PERIMETER OF BUILDING. THIS INCLUDES BUT IS NOT LIMITED TO ALL BRICK EXPANSION JOINTS, TRANSITIONS BETWEEN CONCRETE AND BRICK, AND ALL WINDOW AND DOOR SEALS. REPLACE WITH NEW BACKER ROD AND RE-CAULK JOINTS.

4

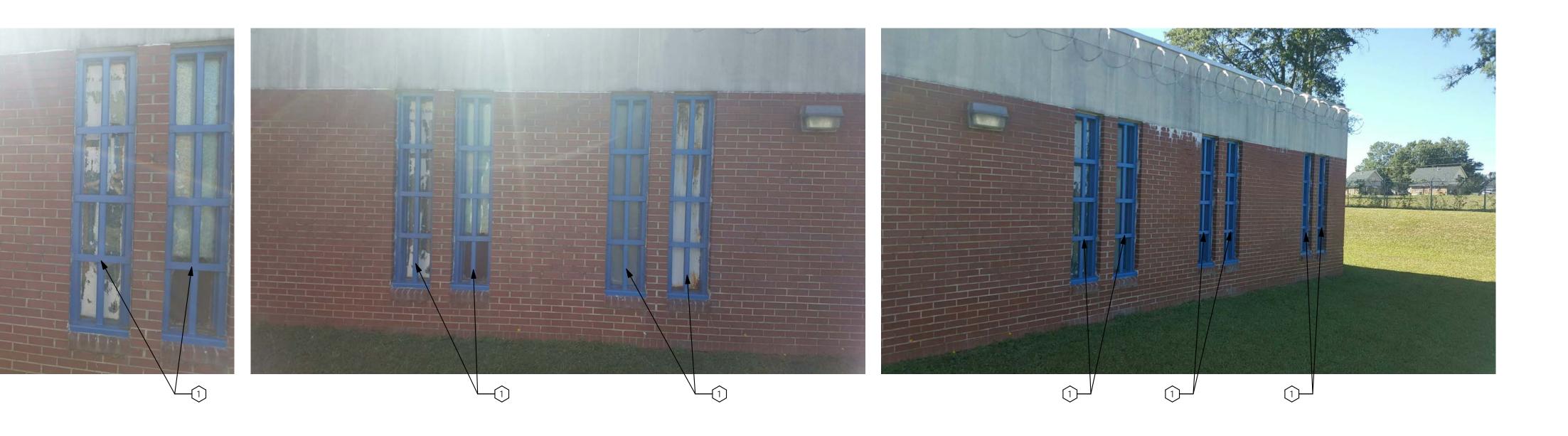
(1) REMOVE WINDOW AND INFILL WALL w/ BRICK VENEER TO MATCH EXISTING. SEE DETAIL 3/A601 FOR NEW BRICK INSTALLATION.





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2

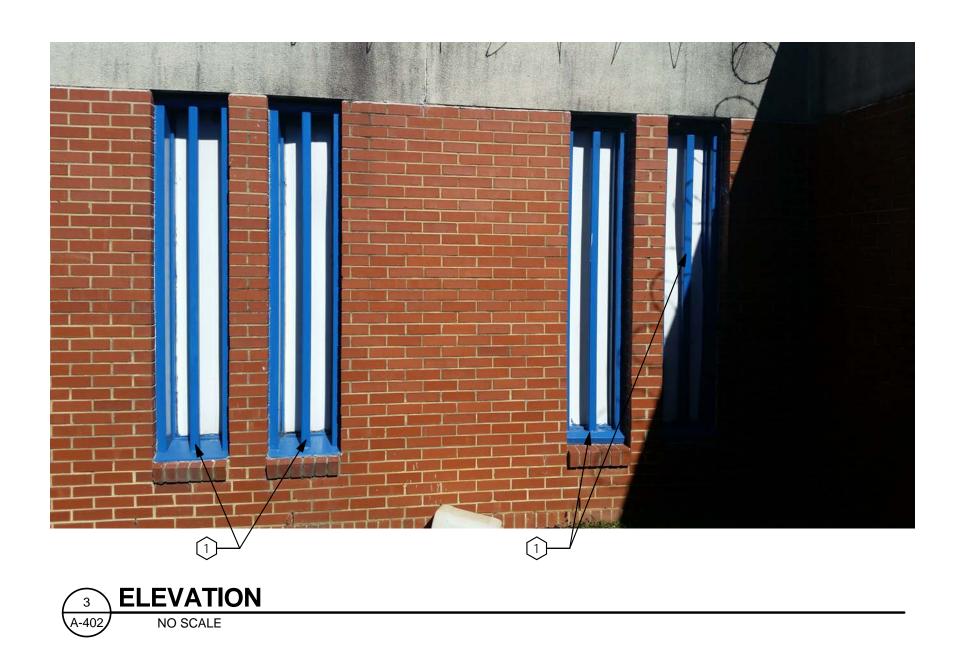












<u>GENERAL NOTES</u> ALL EXTERIOR BRICK AND CONCRETE TO BE CLEANED AND PRESSURE WASHED. AFTER AREAS HAVE DRIED REMOVE EXISTING CAULK AND BACKER ROD AROUND PERIMETER OF BUILDING. THIS INCLUDES BUT IS NOT LIMITED TO ALL BRICK EXPANSION JOINTS, TRANSITIONS BETWEEN CONCRETE AND BRICK, AND ALL WINDOW AND DOOR SEALS. REPLACE WITH NEW BACKER ROD AND RE-CAULK JOINTS.

<u>KEYNOTES</u>

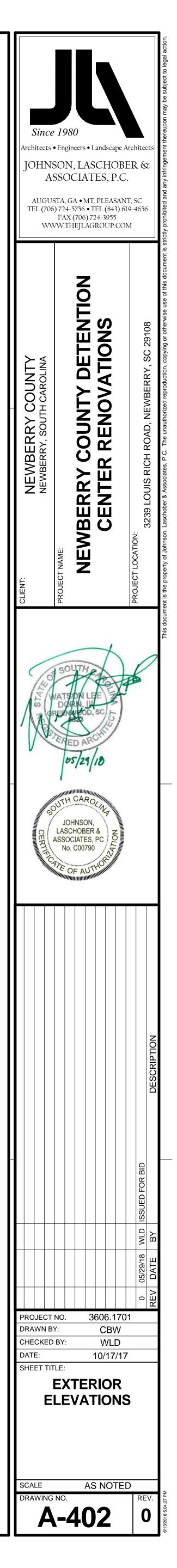
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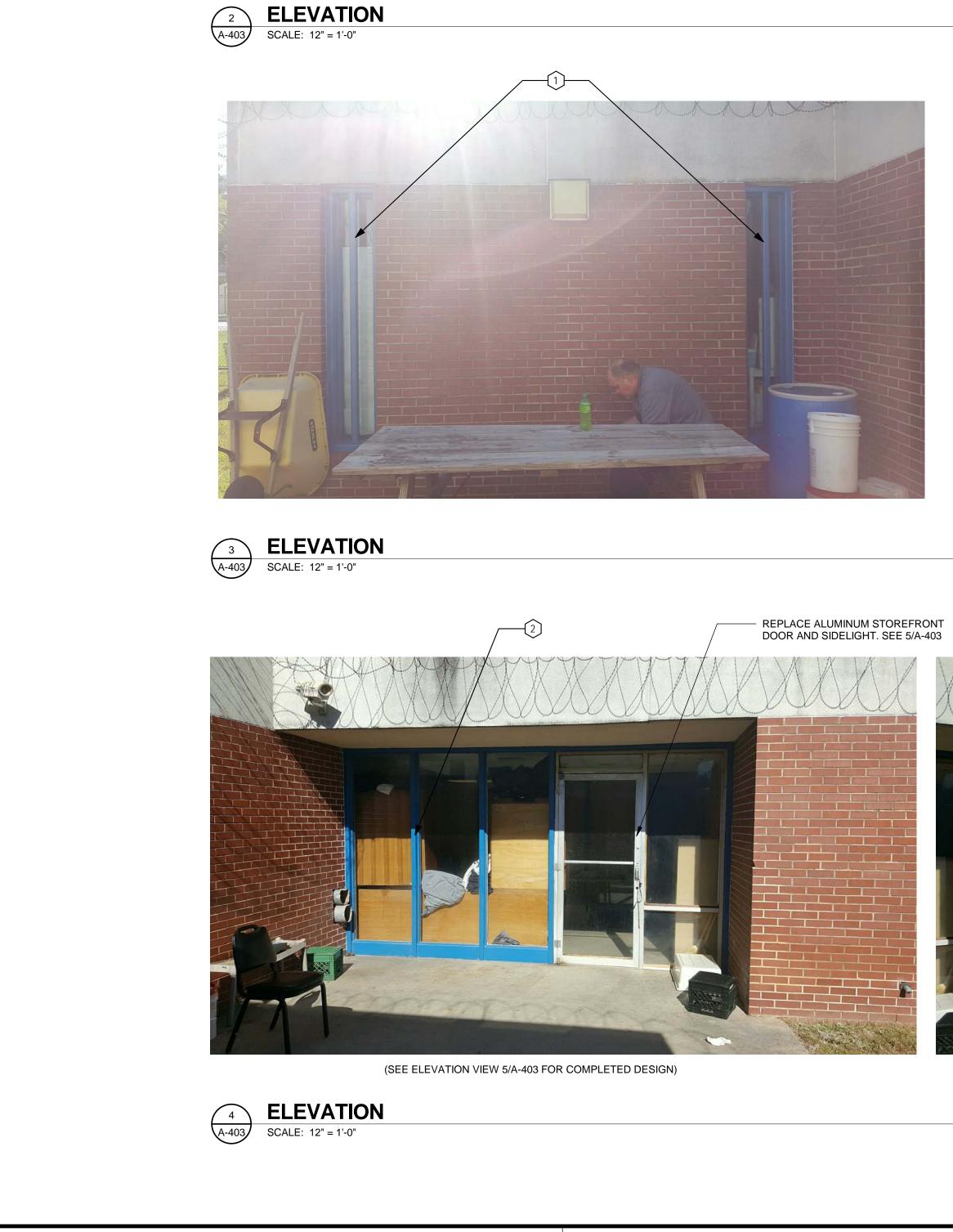
SEE FINISH SCHEDULE FOR ALL FLOOR, WALL AND CEILING FINISHES.

(1) REMOVE WINDOW AND INFILL WALL W/ BRICK VENEER TO MATCH EXISTING. SEE DETAIL 3/A601 FOR NEW BRICK INSTALLATION. (2) SAND, PRIME, AND PAINT EXISTING WINDOW AND/OR DOOR. REMOVE AND RECAULK ALL SEALS.

3 SEE SCHEDULE AND DETAIL 5/A601 FOR DOOR REPAIR.









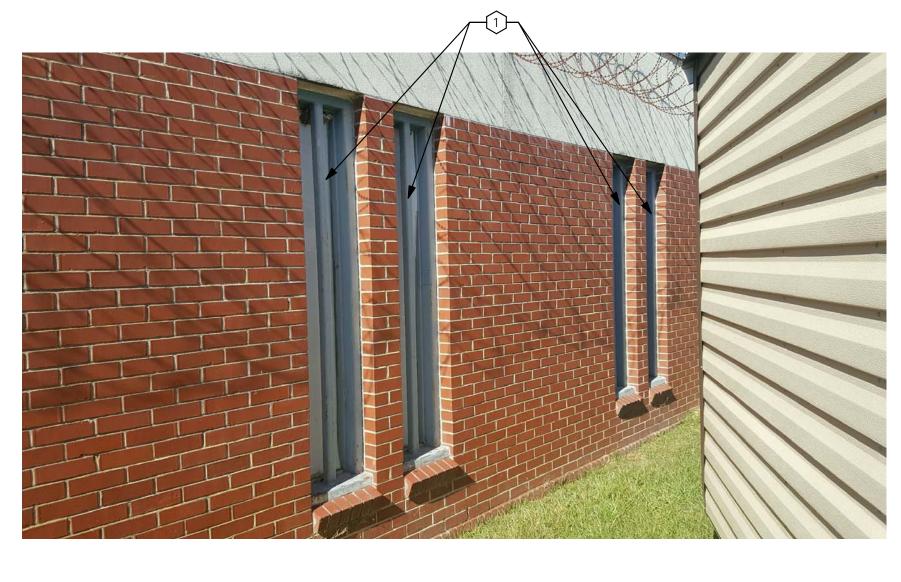
 1
 ELEVATION

 A-403
 SCALE: 12" = 1'-0"





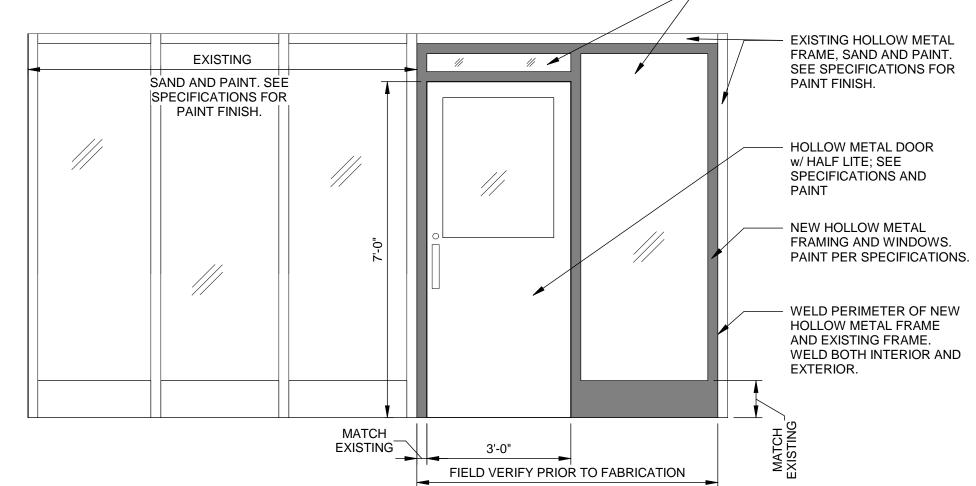






4

5 ELEVATION A-403 SCALE: 1/2" = 1'-0"



(3) REMOVE AND REPLACE DOOR. REMOVE ALL RUST FROM FRAME AND PAINT TO MATCH.

(2) SAND, PRIME, AND PAINT EXISTING WINDOW AND/OR DOOR. REMOVE AND RECAULK ALL SEALS.

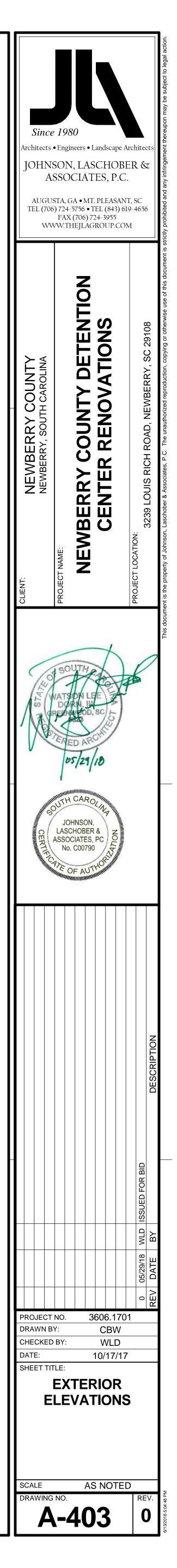
(1) REMOVE WINDOW AND INFILL WALL w/ BRICK VENEER TO MATCH EXISTING. SEE DETAIL 3/A601 FOR NEW BRICK INSTALLATION.

SEE FINISH SCHEDULE FOR ALL FLOOR, WALL AND CEILING FINISHES.

<u>KEYNOTES</u>

<u>GENERAL NOTES</u> ALL EXTERIOR BRICK AND CONCRETE TO BE CLEANED AND PRESSURE WASHED. AFTER AREAS HAVE DRIED REMOVE EXISTING CAULK AND BACKER ROD AROUND PERIMETER OF BUILDING. THIS INCLUDES BUT IS NOT LIMITED TO ALL BRICK EXPANSION JOINTS, TRANSITIONS BETWEEN CONCRETE AND BRICK, AND ALL WINDOW AND DOOR SEALS. REPLACE WITH NEW BACKER ROD AND RE-CAULK JOINTS.

- 1/4" TEMPERED GLAZING



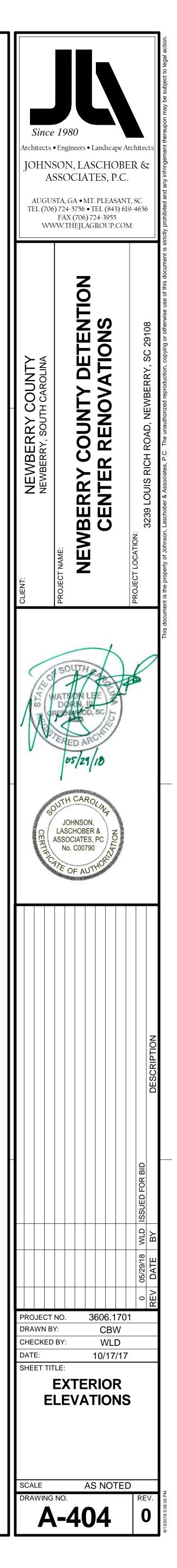


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WASHED. AFTER AREAS HAVE DRIED REMOVE EXISTING CAULK AND BACKER ROD AROUND PERIMETER OF BUILDING. THIS INCLUDES BUT IS NOT LIMITED TO ALL BRICK EXPANSION JOINTS, TRANSITIONS BETWEEN CONCRETE AND BRICK, AND ALL WINDOW AND DOOR SEALS. REPLACE WITH NEW BACKER ROD AND RE-CAULK JOINTS.

4

(1) REMOVE WINDOW AND INFILL WALL w/ BRICK VENEER TO MATCH EXISTING. SEE DETAIL 3/A601 FOR NEW BRICK INSTALLATION.



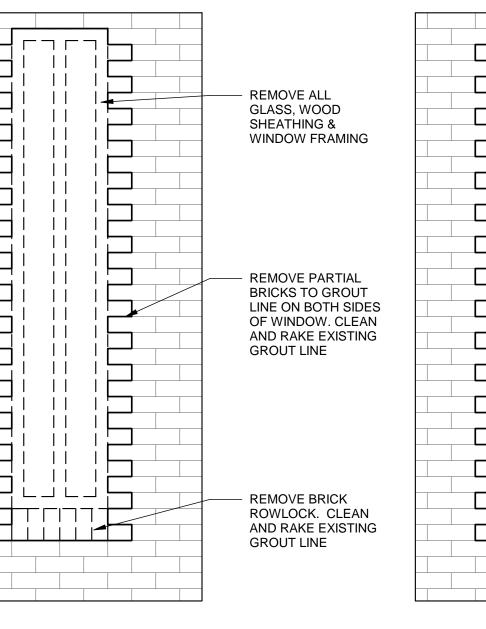
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A-601) SC	ALE: 3	/4" =	VV 1'-0"

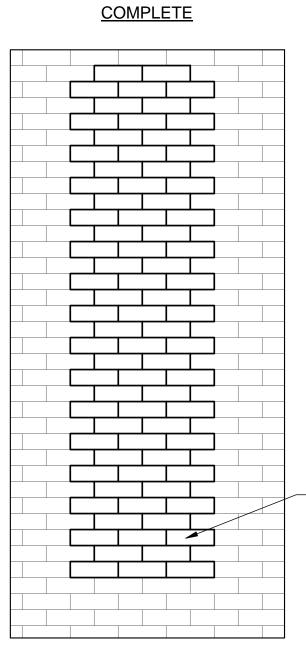
DOOR FINISH NOTE

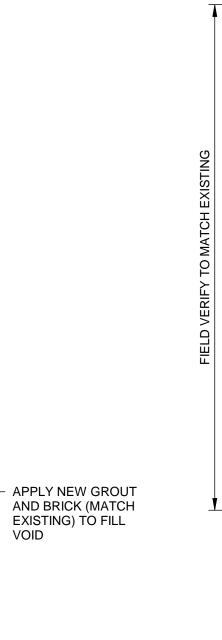
ALL DOORS TO BE PREPPED AND PREPARED TO RECEIVE NEW PAINT; ALL INTERIOR AND EXTERIOR DOORS TO BE REPAINTED.

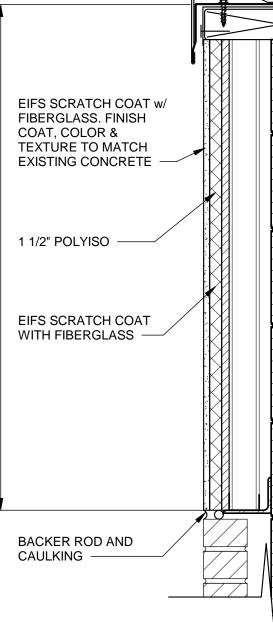
DOOR TAGCOMMENTS1REMOVE AND REPLACE HARDWARE; SAND AND REPAINT FRAME18ETR10ETR12ETR3ETR3ETR4ETR5ETR6ETR7ETR8ETR8ETR9ETR9ETR9ETR9ETR9ETR9ETR9ETR9ETR9ETR10ETR10ETR11REPLACE LOCK12ETR13ETR14ETR15ETR16ETR17ETR18ETR19ETR19ETR19ETR19ETR19ETR19ETR19ETR19ETR19ETR20ETR21ETR22ETR23REPLACE DOOR AND LOCK24ETR25ETR26ETR27ETR28ETR29REPLACE DOOR AND LOCK29ETR20ETR210ETR22ETR23REPLACE DOOR AND LOCK24ETR25ETR26ETR27ETR38 <th>OF</th> <th>000</th> <th>DR</th> <th>RS</th> <th>SC</th> <th></th> <th></th> <th></th> <th>LE</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	OF	000	DR	RS	SC				LE						
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1CETR2ETR3ETR4ETR5ETR5ETR6ETR7ETR8ETR8ETR9ETR9ETR9ETR9ETR9ETR9ETR9ETR10ETR11REPLACE LOCK12ETR138ETR14ETR154ETR165ETR174ETR175ETR176ETR178ETR178ETR179ETR180ETR170ETR171ETR172ETR173ETR174ETR175ETR176ETR177ETR178ETR179ETR170ETR171ETR172ETR173ETR174ETR175ETR176ETR177ETR178ETR179ETR179ETR170ETR171ETR172ETR173ETR174ETR175ETR176ETR177ETR178ETR179ETR179	ARE; SA	RDWARE; S	RE; SAN	AND A	and f	REPA	NNT FF	RAME							
2ETR3ETR4ETR6ETR6ETR7ETR8ETR9ETR </td <td></td>															
4ETR5ETR6ETR7ETR8ETR9ETR9ETR98ETR90ETR91ETR92ETR93ETR94ETR95ETR96ETR97ETR98ETR98ETR99ETR99ETR100ETR111REPLACE LOCK112ETR128ETR129ETR130ETR131ETR132ETR133ETR144ETR155ETR166ETR176ETR177ETR178ETR179ETR170ETR171ETR172ETR173ETR174ETR175ETR176ETR270ETR281ETR292ETR293REPLACE LOCK294REFLACE LOCK ADUCK295ETR296ETR297REPLACE DOCR AND LOCK298ETR298ETR299ETR290REPLACE DOCR AND LOCK291ETR292ETR293ETR294REPLACE DOCR AND LOCK295ETR <td></td>															
5ETR6ETR7ETR8ETR80ETR9ETR9ETR90ETR91ETR92ETR93ETR94ETR95ETR95ETR96ETR97ETR98ETR98ETR99ETR90ETR91REPACE LOCK92ETR93ETR94ETR95ETR96ETR97ETR98ETR99ETR99ETR90ETR91ETR92ETR93ETR94ETR95ETR96ETR97ETR98ETR99ETR910ETR9210ETR923REPLACE DOCK AND LOCK934ETR935ETR935ETR936ETR937REPLACE DOCK NEW STRIKE PLATE ON HOLLOW METAL FRAME938ETR939ETR939ETR930REPLACE DOCK AND LOCK931ETR935ETR936ETR937REPLACE DOCK AND LOCK938ETR939ETR930ETR931ETR <td></td>															
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10 ETR 10B ETR 11 REPLACE LOCK 12 ETR 13B ETR 13B ETR 13B ETR 144 ETR 155 ETR 16 ETR 17 ETR 18 ETR 19 ETR 10 ETR 11 ETR 12 ETR 13B ETR 14 ETR 15 ETR 16 ETR 17 ETR 18 ETR 20 ETR 21 ETR 22 ETR 23 REPLACE LOCK 24 ETR 25 ETR 26 REKEY LOCK NEW STRIKE PLATE ON HOLLOW METAL FRAME 27 REPLACE DOCK AND LOCK 28 ETR 29 ETR 20															
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45B DOOR TO RECEIVE 12" x 12" SECURITY LITE. SEE DETAIL 5/A601 FOR DOOR REPAIR DETAILS. SEE BELOW FOR FRAME REPAIR.	ΙΥΠΥΙ		VIII LI	∟11 ⊑. ₹	. SEE		-11L D/A		UR D			υΕΙΑΙ	LO. 3E	L I	
46 REPLACE LOCK														 	
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48 REPLACE DOOR AND HARDWARE 49 REPLACE DOOR AND HARDWARE															
49 REPLACE DOOR AND HARDWARE 49B ETR	-														
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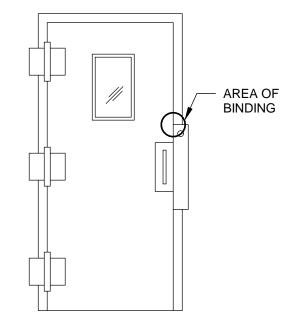
IDOW REPAIR DETAIL

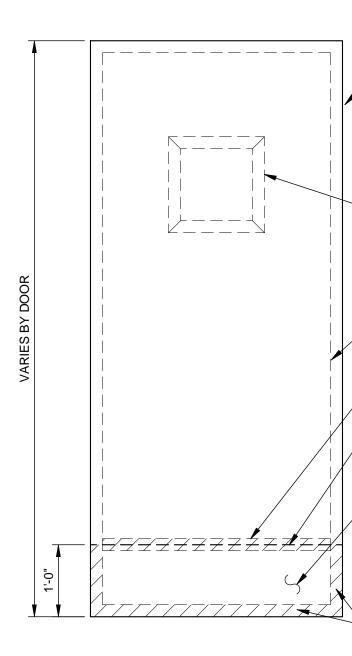
DOOR SCHEDULE COMMENTS DOOR TAG PATCH AND BONDO HOLLOW METAL FRAME FOR LIKE NEW APPEARANCE FTF ETR ETR REPLACE DOOR HANDLE AND LOCKSET REPLACE DOOR SCREWS FTR REPLACE DOOR AND LOCK REPLACE DOOR AND LOCKSET SEE DETAIL 5/A601 FOR DOOR AND FRAME REPAIR. REPAIR BINDING AREA (SEE BELOW) REPLACE DOOR AND LOCKSET; PATCH AND BONDO HOLLOW METAL FRAME FOR LIKE NEW APPEARANCE FTR REPLACE DOOR AND LOCKSET; PATCH AND BONDO HOLLOW METAL FRAME FOR LIKE NEW APPEARANCE REPLACE SCREWS w/ PRETRIAL SCREWS, SEE PROPOSED PLAN FOR ADDITIONAL NOTES FTR REPLACE SCREWS w/ PRETRIAL SCREWS, SEE PROPOSED PLAN FOR ADDITIONAL NOTES SEE PROPOSED PLAN FOR DOOR NOTES SEE DETAIL 5/A601 FOR DOOR REPAIR; PATCH AND BONDO FRAME FOR LIKE NEW APPEARANCE 67B SEE DETAIL 5/A601 FOR DOOR AND FRAME REPAIR. REPAIR BINDING AREA (SEE BELOW) FTR \$2000 ALLOWANCE TO REPAIR SECURITY HARDWARE (SLIDING DOOR CURRENTLY DOES NOT LATCH) ETR FTF ETR FTR ETF ETR FTF ETR ETR FTE DOOR TO RECEIVE 12" x 12" SECURITY LITE. SEE DETAIL 5/A601 FOR DETAIL FTR FTR ETR ETR ETR REPLACE DOOR AND LOCK FTR REMOVE DOOR. SEE DETAIL 3/A-601 ETR FTF FTR ETR ETR ETR FTF FTR 86B ETR ETR REPLACE DOOR AND LOCK ETR ETF FTF FTF ETR ETR ETF FTF FTF FTF FTF 100B ETR 100C ETR 100D ETR ETR ETR 102B REPLACE LOCK

DOOR REPAIR NOTES: ALIGNS w/ EXISTING HINGE & STRIKE PLATE LOCATIONS.

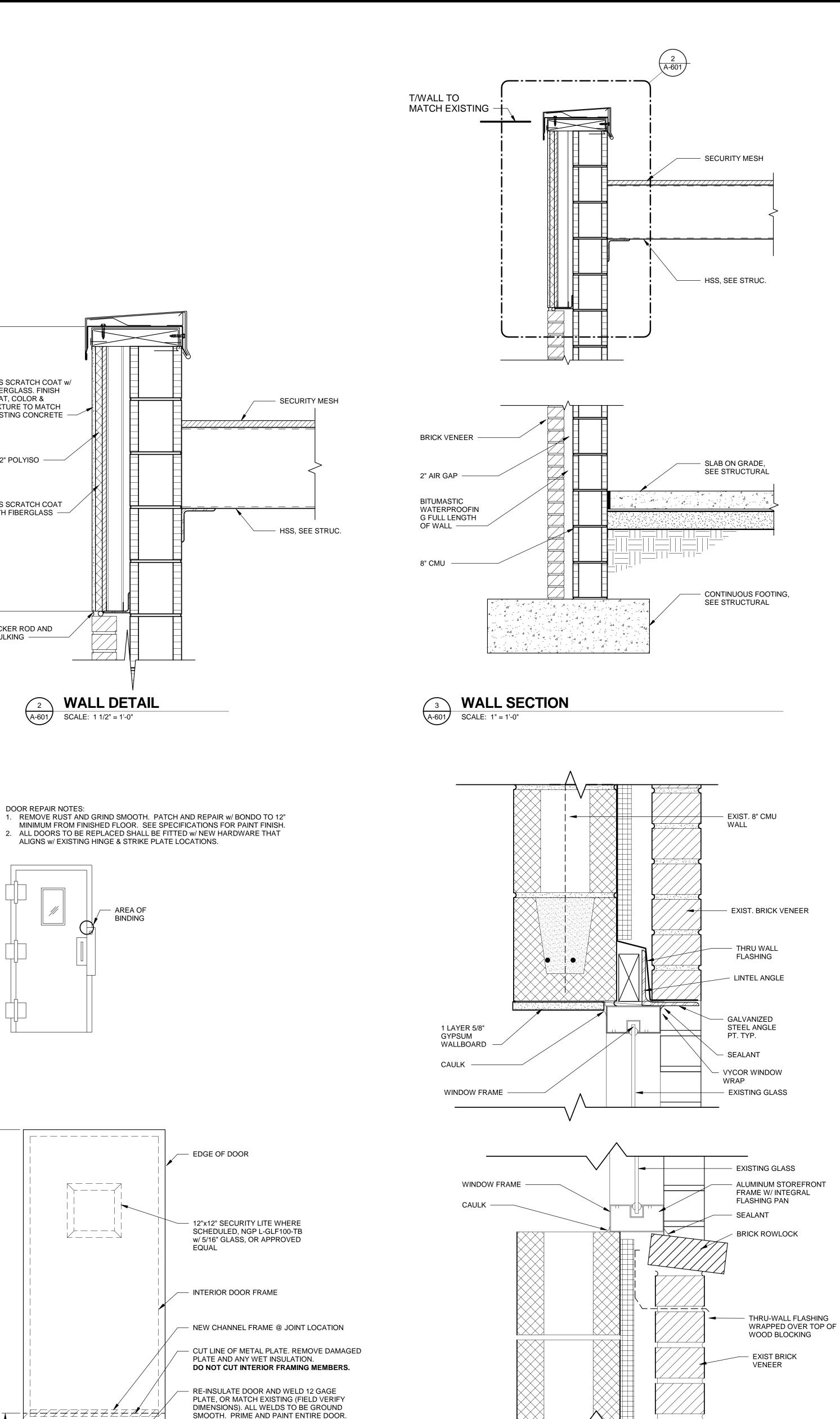
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A-601





DOOR REPAIR 4A-601 SCALE: 3/4" = 1'-0"



SEE SPECIFICATIONS FOR PAINT FINISH

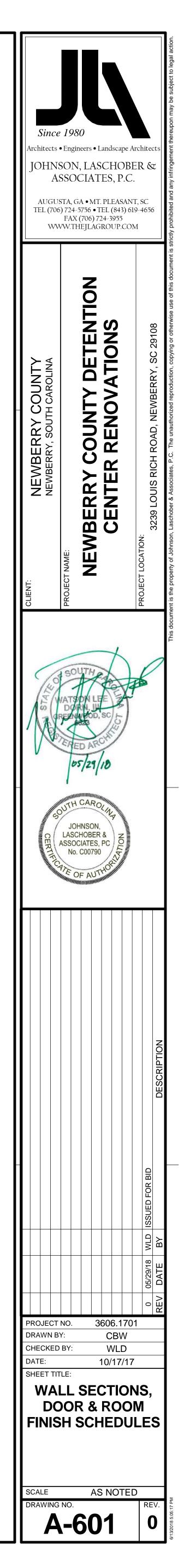
TO ACCEPT NEW STEEL PLATE

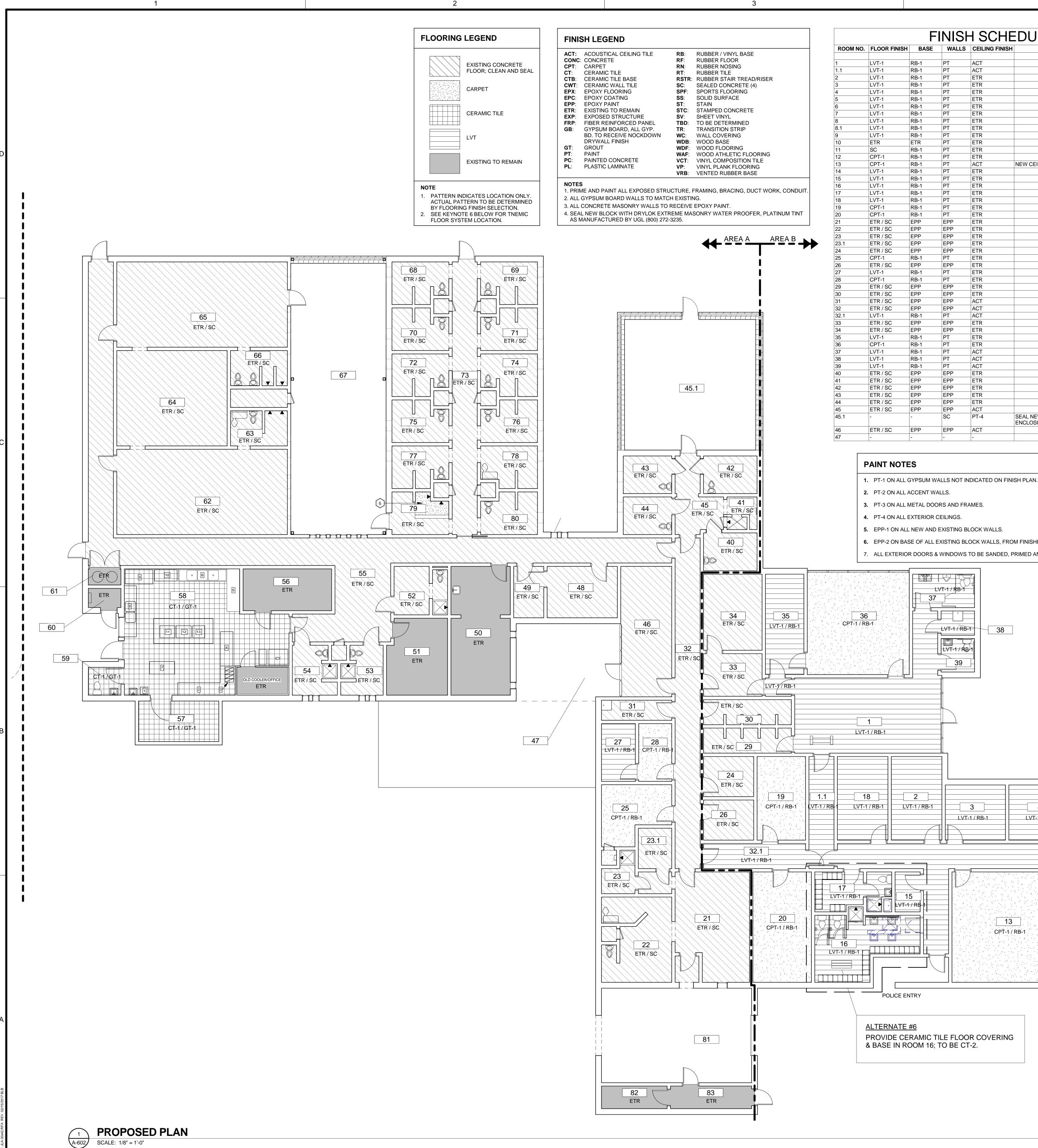
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WHERE REQUIRED REINFORCE & STIFFEN OR

REPLACE INTERIOR DOOR FRAMING MEMBERS

WINDOW SECTION A-601 SCALE: 3" = 1'-0"





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-4	SEAL NEW CMU BLOCK WALLS; PAINT SECURITY
	ENCLOSURE

ROOM NO.	FLOOR FINISH	BASE	WALLS	I SCHE	COMMENTS
48	ETR / SC	EPP	EPP	GYP / PT	
49	ETR / SC	EPP	EPP	ETR	
50	ETR	ETR	PT	ETR	
51	ETR	ETR	PT	ETR	
52	ETR / SC	EPP	EPP	ETR	
53	ETR / SC	EPP	EPP	EXP / PT	
54	ETR / SC	EPP	EPP	EXP / PT	
55	ETR / SC	EPP	EPP	ACT	
56	ETR	ETR	PT	ETR	
57	CT-1	CT-1	-	-	
58	CT-1/ETR	CT-1/ETR	EPP / PT	EXP / PT	SEE FINISH PLAN FOR ETR LOCATION
59	CT-1	CT-1	EPP	EXP / PT	
60	ETR	ETR	PT	ETR	
61	ETR	ETR	PT	EXP / PT	
62	ETR / SC	EPP	EPP	ETR	
63	ETR/SC	EPP	EPP	ETR	
64	ETR/SC ETR/SC	EPP	EPP	ETR	
65	ETR/SC ETR/SC	EPP	EPP	ETR	
66	ETR / SC	EPP	EPP	ETR	
67	-	-		PT-4	PAINT SECURITY ENCLOSURE
68	- ETR / SC	- EPP	- EPP	EPP	
69	ETR / SC	EPP	EPP	EPP	
69 70	ETR/SC ETR/SC	EPP	EPP	EPP	
70 71	ETR / SC	EPP	EPP	EPP	
71 72	ETR/SC ETR/SC	EPP	EPP	EPP	
73	ETR / SC	EPP	EPP	EPP	
74	ETR / SC	EPP	EPP	EPP	
75	ETR / SC	EPP	EPP	EPP	
76	ETR / SC	EPP	EPP	EPP	
77	ETR / SC	EPP	EPP	EPP	
78	ETR / SC	EPP	EPP	EPP	
79	ETR / SC	EPP	EPP	EPP	TNEMEC STANLOCK ML
80	ETR / SC	EPP	EPP	EPP	
81	-	-	- DT	PT-4	
82	ETR	ETR	PT	ETR	
83	ETR	ETR	PT	ETR	
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95 96 97	ETR	ETR			ALT. #1
95 96 97 98	ETR ETR	ETR ETR	ETR	ETR	ALT. #1
95 96 97 98 99	ETR ETR ETR	ETR ETR ETR	ETR EPP	ETR ETR	ALT. #1

6. EPP-2 ON BASE OF ALL EXISTING BLOCK WALLS, FROM FINISHED FLOOR TO 8"AFF. ALL EXTERIOR DOORS & WINDOWS TO BE SANDED, PRIMED AND PAINTED.

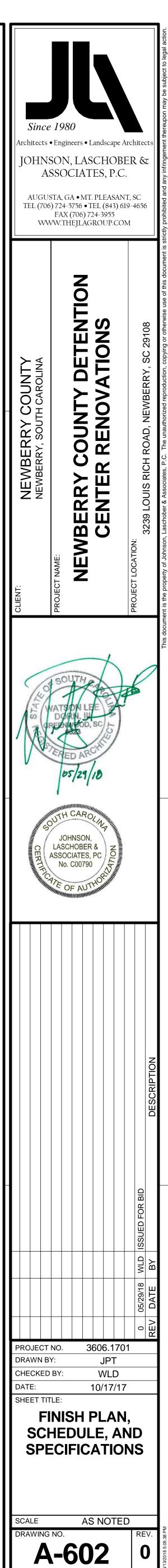
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INTERIOR FINISH SPECIFICATIONS						
CPT-1 - CARPET TILE	PT-1 - WALL PAINT	SS-1 - SOLID SURFACE				
MANUFACTURER: SHAW CONTRACT SPEC: ALLURE, BRIGHT WORK #59327 SIZE: TILE 24"x24"; ASHLAR INSTALL COLOR: TBD CONTACT: JOE WALKER 706-831-3938	MANUFACTURER: SHERWIN-WILLIAMS SPEC: INTERIOR, SATIN FINISH COLOR: TBD CONTACT: RUSS HANSEN 980-207-9410	MANUFACTURER: DUPONT SPEC: CORIAN SIZE: 2CM COLOR: TBD CONTACT: PAUL STEVENS 678-662-0919				
LVT-1 - LUXURY VINYL TILE	PT-2 - ACCENT WALL PAINT	PL-1 - PLASTIC LAMINATE				
MANUFACTURER: SHAW CONTRACT SPEC: GRAIN #0364V SIZE: 7" x 48" NOMINAL COLOR: TBD CONTACT: JOE WALKER 706-831-3938	MANUFACTURER: SHERWIN-WILLIAMS SPEC: INTERIOR, SATIN FINISH COLOR: TBD CONTACT: RUSS HANSEN 980-207-9410	MANUFACTURER: WILSONART SPEC: STANDARD LAMINATE COLOR: TBD CONTACT: ANGIE LIBERTO 770-616-3088				
RB-1 - RUBBER BASE	PT-3 - TRIM PAINT	EPP-1 - EPOXY PAINT				
MANUFACTURER: ROPPE SPEC: STD COVE BASE, 700 SERIES COLOR: TBD CONTACT: MICHELE MUSGROVE 404-640-0241	MANUFACTURER: SHERWIN-WILLIAMS SPEC: INTERIOR, SEMI-GLOSS FINISH COLOR: TBD CONTACT: RUSS HANSEN 980-207-9410	MANUFACTURER: SHERWIN-WILLIAM SPEC: EPOXY COLOR: TBD CONTACT: RUSS HANSEN 980-207-9410				
TR-1 - TRANSITION STRIPS	PT-4 - EXTERIOR PAINT	EPP-2 - EPOXY PAINT				
MANUFACTURER: ROPPE SPEC: RUBBER COLOR: TBD CONTACT: MICHELE MUSGROVE 404-640-0241	MANUFACTURER: SHERWIN-WILLIAMS SPEC: EXTERIOR COLOR: TBD CONTACT: RUSS HANSEN 980-207-9410	MANUFACTURER: SHERWIN-WILLIAM SPEC: EPOXY COLOR: TBD CONTACT: RUSS HANSEN 980-207-9410				
CT-1 - CERAMIC TILE	CT-2 - CERAMIC TILE	GT-1 - FLOOR GROUT				
MANUFACTURER: AMERICAN OLEAN SPEC: 6x6 SQUARE FIELD TILE; MATCHING BULLNOSE BASE COLOR: TBD CONTACT: THE TILE CENTER 706-722-6804	MANUFACTURER: AMERICAN OLEAN SPEC: UNGLAZED COLORBODY PORCELAIN MOSAICS COLOR: TBD CONTACT: THE TILE CENTER 706-722-6804	MANUFACTURER: MAPEI SPEC: SANDED, EPOXY SIZE: 1/8" GROUT JOINT COLOR: TBD CONTACT: JERE STREET 770-354-3417				

3 LVT-1 / RB-1	4 LVT-1 / RB-1	5 LVT-1 / RB-1	6 LVT-1/RB-1	7 LVT-1/RB-1	8 LVT-1/RB-1 8.1 LVT-1/RB-1	
			14 LVT-1 / RB-1		9 LVT-1/RB-1	
СРТ	3 1/RB-1	CPT-1	2 / RB-1	11 SC/RB-1	10 ETR	

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0 1 2 4 8 16 24 FT. SCALE: 1/8" = 1'-0"



IAMS AMS

	GENERAL NOTES:	
	 GENERAL 1. THESE GENERAL NOTES PRESENT AND/OR SUMMARIZE KEY PROJECT INFORMATION FOR THE PLAN READER'S CONVENIENCE. SEE PLANS FOR FURTHER REQUIREMENTS. 2. ALL REFERENCES TO STANDARDS HEREIN ARE TO MOST RECENT ISSUE IN EFFECT AS OF THE DATE OF THESE DOCUMENTS. 	 MASONRY WALL REINFORCING/JOINTS 1. THE REINFORCING, JOINTS AND CRITERIA DESCRIBED IN THE FOR REQUIRED AS A MINIMUM FOR ALL RUNNING BOND MASONRY WIDESIGN DRAWINGS FOR ANY ADDITIONAL REQUIREMENTS AND/ 2. VERTICAL REINFORCING (RUNNING BOND):
	 3. DESIGN BASIS: 2015 INTERNATIONAL BUILDING CODE (IBC) A. GENERAL a. RISK CATEGORY = II 	A. PROVIDE REINFORCING STEEL IN A CONCRETE FILLED CEI BOND BEAM AT TOP OF WALL. LAP BARS WITH FOOTING D BOND BEAM. BREAK-OUT BOTTOM OF BOND BEAM AT FILL FOUR COURSES OF WALL WHEN BOND BEAM IS FILLED. P
	B. WIND: ULTIMATE DESIGN WIND SPEED = 115 MPH WIND EXPOSURE CATEGORY = B INTERNAL PRESSURE COEFFICIENT = 0.18 ± (ENCLOSED BUILDING)	LOCATIONS:AT ALL WALL CORNERS.WITHIN 8" OF ENDS OF ALL WALLS AND AT EACH SIDI
D	C. SEISMIC: SEISMIC IMPORTANCE FACTOR le = 1.0 MAPPED SPECTRAL RESPONSE ACCEL. (SHORT PERIODS) Ss = 0.332 MAPPED SPECTRAL RESPONSE ACCEL. (1 SECOND PERIOD) S1 = 0.12	JOINTS. • AT ALL DOOR JAMBS AND AT ALL OPENINGS GREATE • ALONG ENTIRE LENGTH OF ALL WALLS AS NOTED IN
	SITE CLASS = D SPECTRAL RESPONSE COEFFICIENT (SHORT PERIODS) SDS = 0.34 SPECTRAL RESPONSE COEFFICIENT (1 SECOND PERIOD) SD1 = 0.185 SEISMIC DESIGN CATEGORY = C	VERTICAL FOR SEISMIC DESIGN CAT WALL WIDTH NON-LOAD BEARING WALLS 8" 1-#4 @ 0'-8" O.C. MAX.
	ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE EXERCISE YARD BASIC SEISMIC FORCE RESISTING SYSTEM - ORDINARY REINFORCED MASONRY SHEAR WALLS.	B. VERTICAL BAR SPLICES SHALL HAVE A MINIMUM LAP AS NO MASONRY REINFORCING LAP LE
	WALLS. RESPONSE MODIFICATION FACTOR R = 2.0 SEISMIC RESPONSE COEFFICIENT Cs = 0.17 DESIGN BASE SHEAR = 7.6K	BAR#3#4#5#6LENGTH18"24"30"36"
	D. LIVE LOADS: ROOF: 20 psf	Fy=60,000psi, F'm=1,500psi, BARS TO BE CENTERED IN THEC. VERTICAL FILLED CELLS SHALL BE FILLED WITH CONCRET
	E. SNOW LOAD GROUND: 10 psf 4. ABBREVIATIONS:	3. HORIZONTAL REINFORCEMENT (RUNNING BOND): A. PROVIDE HORIZONTAL JOINT REINFORCING AS NOTED IN HORIZONTAL FOR SEISMIC DESIGN CA
	TTOP (BAR)FINFIN FINISHREINFREINFORCINGBBOTTOM (BAR)FLRFLOORTRSTRUSSINTINTERIORCLRCLEARSTLSTEELEXTEXTERIORT/*TOP OF *WDWOOD	WALL WIDTH NON-LOAD BEARING WALLS 8" 2-LONGITUDINAL W1.7 (9 GAGE) 2 WIRES @ 16" O.C. MAX.
	ELELEVATIONB/*BOTTOM OF *CONCCONCRETEO.C.ON CENTERW/*WITH *MSNRYMASONRYO.W.EACH WAYGAGAGE/GAUGEL.G.LIGHT GAGEO.F.EACH FACEEQEQUALAPPROXAPPROXIMATEN.S.NEAR SIDEFTGFOOTINGSPC'SSPACE/SPACES/SPECS	B. PROVIDE CONCRETE FILLED BOND BEAM WITH 2 - #5 REBA STRUCTURALLY CONNECTED TO ROOF AND AT THE TOPS
	 F.S. FAR SIDE TYP TYPICAL U.N.O. UNLESS NOTED OTHERWISE 5. UNLESS OTHERWISE NOTED, REQUIREMENTS GIVEN FOR ONE LOCATION ALSO APPLY AT OTHER LOCATIONS AT WHICH CONDITIONS ARE SIMILAR. THE REQUIREMENTS GIVEN SHALL BE ADAPTED TO 	 C. PROVIDE CONCRETE FILLED COURSE WITH 1 - #4 REBAR A GREATER OF 2'-0" OR 40 BAR DIAMETERS BEYOND OPENIN 4. CONTROL JOINTS:
	 CONDITIONS AT SIMILAR LOCATIONS. 6. COORDINATE WORK OF OTHER TRADES SHOWN ON DRAWINGS WITH STRUCTURAL WORK. 7. SHOP DRAWINGS FOR ANY PART OF THE STRUCTURAL WORK SHALL SHOW THE INTERFACE WITH 	 A. CONTROL JOINTS SHALL BE LOCATED IN ALL WALLS AT TH AT A MAXIMUM SPACING OF 3 TIMES THE WALL HEIG
	 SHOP DRAWINGS FOR ANY PART OF THE STRUCTURAL WORK SHALL SHOW THE INTERFACE WITH OTHER RELATED TRADES. THE CONTRACTOR SHALL VERIFY DIMENSIONS, LOCATIONS, MATERIALS, ETC. OF RELATED TRADES BY CERTIFIED MANUFACTURER'S DRAWINGS AND SO INDICATE BEFORE SUBMITTING SHOP DRAWINGS FOR ARCHITECT/ENGINEER'S APPROVAL. 	 CENTER. AT A DISTANCE OF NOT OVER ONE TIME THE WALL H ABOVE JOINTS IN FOUNDATIONS. BELOW JOINTS IN ROOFS THAT BEAR ON THE WALL.
С	8. THE DESIGN OF THE STRUCTURE SHOWN IS BASED ON INTERACTION OF VARIOUS CONNECTED PARTS AND THE DESIGN LOADS NOTED ABOVE. THE STRENGTH AND STABILITY OF CONSTRUCTION UNDERWAY MAY REQUIRE SUPPLEMENTAL TEMPORARY SUPPORTS, BRACING OR OTHER MEASURES. THE CONTRACTOR SHALL DETERMINE THE NEED OF SUCH TEMPORARY SUPPORT DURING	B. MASONRY WALL CONTROL JOINTS: ALL HORIZONTAL JOIN THE CONTROL JOINT (UNLESS NOTED OTHERWISE ON DRA REINFORCING IN INTERMEDIATE BOND BEAMS. ALL BOND LOCATED AT OR NEAR THE TOP OF THE WALL SHALL BE C
	CONSTRUCTION AND PROVIDE ALL SUCH MEASURES. CONCRETE 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318-14 AND THE FOLLOWING:	JOINTS. C. IF CONTROL JOINTS ARE NOT SHOWN ON THE DRAWINGS. AND STRUCTURAL ENGINEER, BEFORE CONSTRUCTION BI LOCATIONS REQUIRED.
	 ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318-14 AND THE FOLLOWING: A. CONCRETE STRENGTHS AND MIXES SHALL BE AS FOLLOWS: STRENGTH(PSI) AIR(%) CEMENT(# MIN) W/C RATIO SLUMP AGGREGATE(MAX.) LOCATION 	5. ISOLATION JOINTS SHALL BE LOCATED WHERE NON-LOAD BEAR WALLS OR SHEAR WALLS.
	2,000 ** TYPE 1 (376) CONDUIT ENCASEMENT AND BACKFILL BELOW FOOTINGS	 WALL BRACING: A. ALL NON-LOAD BEARING MASONRY WALLS, (FULL HEIGHT BRACED ALONG ENTIRE LENGTH. BRACE POINTS SHALL C CELLS AS DEFINED IN NOTE 2.A ABOVE.
	3,000 ** TYPE 1 (517) .52 4" +/- 1" 3/4" WALL FOOTINGS 4,000 ** TYPE 1 (611) .48 4" +/- 1" 3/4" SLAB ON GRADE	STRUCTURAL STEEL 1. INSTALLATION OF STRUCTURAL STEEL, SHALL BE IN ACCORDAN
	2,500*** ** TYPE 1 (423) - 8" - COARSE GROUT FOR MASONRY BLOCK FILL	2. STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICAT WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, "SP BUILDINGS", 14TH EDITION, 2011.
	 ** NATURALLY ENTRAPPED AIR ONLY UNLESS CONCRETE IS EXPOSED TO FREEZE/THAW. USE 4% TO 6% ENTRAINED AIR UNDER FREEZE/THAW CONDITION. *** MAXIMUM AGGREGATE SIZE TO BE 3/8". 	 UNLESS NOTED OTHERWISE STEEL MATERIALS SHALL CONFOR A. MISCELLANEOUS PLATES AND BARS - ASTM A-36. B. RODS - ASTM A-36 OR ASTM F1554, GRADE 36. C. COLD-FORMED HOLLOW STRUCTURAL SECTIONS (HSS) - A TUBING.
	 B. FLY ASH PER ASTM C618, TYPE C OR F WILL BE PERMITTED PROVIDED THE FOLLOWING LIMITS ARE MET: 1. THE QUANTITY OF CEMENT REPLACED SHALL BE NO MORE THAN 20%. 	 4. UNLESS NOTED OTHERWISE BOLTED CONNECTIONS SHALL COI A. HIGH STRENGTH BOLTS - 3/4" DIAMETER ASTM A-325-N TYF B. WASHERS - ASTM F436 TYPE 1, HARDENED (RCSC SPEC T)
	 CEMENT SHALL BE REPLACED BY FLY ASH AT THE RATE OF 1.25 LBS. OF FLY ASH TO 1.0 LBS OF CEMENT. ALL CONCRETE DELIVERED TO THE SITE SHALL HAVE A COMPUTER BATCH WEIGHT TICKET. THE BATCH TICKET SHALL SHOW WEIGHTS OF ALL MATERIALS, VOLUME OF CONCRETE AND TIME BATCHED. THE BATCH WEIGHT TICKET SHALL BE GIVEN TO A DESIGNATED OWNER'S REPRESENTATIVE ON SITE AT THE TIME OF DELIVERY FOR VERIFICATION OF MIX PROPORTIONS. 	RODS). C. BOLT, NUT AND WASHER FINISH SHALL MATCH THE FINISH 5. UNLESS NOTED OTHERWISE ON THE DESIGN DRAWINGS ALL ST STEEL SHALL BE SHOP PRIMED.
	D. CONSOLIDATE ALL CONCRETE IN FORMS AND TRENCHES WITH VIBRATORS. POORLY CONSOLIDATED CONCRETE WILL BE REJECTED AND REPLACED AT CONTRACTOR'S EXPENSE.	 MINIMUM SIZE WELD SHALL BE 1/4" FILLET WITH E70XX ELECTROREQUIREMENTS OF AWS D1.1. MINIMUM MATERIAL THICKNESS SHALL NOT BE LESS THAN 3/8" F
В	 2. CONCRETE REINFORCING A. ALL REINFORCING SHALL BE PER ASTM A-615, GRADE 60. B. WELDING OF REINFORCING STEEL IS NOT PERMITTED. 	8. ALIGN AND ADJUST VARIOUS MEMBERS THAT FORM PART OF A PERMANENTLY FASTENING. MAINTAIN ERECTION TOLERANCES 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND
_	C. REINFORCING SHALL NOT BE HEATED TO BEND.3. SUBMITTALS	 9. DO NOT USE THERMAL CUTTING DURING ERECTION OR ENLARGE 10. CLEAN AND REPAIR FINISHES DAMAGED DURING ERECTION.
	A. CONCRETE MIX DESIGNS; SHOP DRAWINGS FOR CONCRETE REINFORCING, EMBEDDED ITEMS; ACCESSORIES; AND PRODUCT DATA, ETC. SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE AT LEAST 15 DAYS PRIOR TO THE START OF WORK FOR APPROVAL.	 SUBMITTALS A. SHOP DRAWINGS AND MATERIAL SUBMITTALS SHALL BE R MISCELLANEOUS STEEL, ACCESSORIES; AND PRODUCT D. B. ALL DATA SHALL BE SUBMITTED "CONTRACTOR APPROVE
	 B. ALL DATA SHALL BE SUBMITTED "CONTRACTOR APPROVED". 4. NOTIFICATIONS: THE CONTRACTOR SHALL NOTIFY THE OWNER. 	
	 A. WHEN EXCAVATION TO REQUIRED SUBGRADE ELEVATIONS IS REACHED. B. 24 HOURS PRIOR TO ANY SCHEDULED CONCRETE PLACEMENT FOR INSPECTION OF FORMWORK, REINFORCING AND EMBEDDED ITEMS. 	
	 FOUNDATION DESIGN BASIS: BASED ON PRESUMPTIVE VALUES OUTLINED IN THE IBC 2015 SECTION 1804. ALLOWABLE BEARING CAPACITY IS 1500 PSF, MAXIMUM. NO BLASTING WILL BE ALLOWED. 	
	 NO BLASTING WILL BE ALLOWED. CONTROL OF GROUND WATER, IF REQUIRED, SHALL BE ACCOMPLISHED IN A MANNER THAT WILL PRESERVE THE STRENGTH OF THE FOUNDATION SOILS, WILL NOT CAUSE INSTABILITY OF THE EXCAVATION SLOPES, AND WILL NOT RESULT IN DAMAGE TO EXISTING STRUCTURES. 	
	 COORDINATE FOUNDATION WORK WITH ALL OTHER TRADES. PIPES AND OTHER WORK WHICH REQUIRE EXCAVATING OR TRENCHING PARALLEL TO WALL FOOTINGS, SHALL NOT BE LOCATED BELOW LINES EXTENDING DOWNWARD FROM THE BOTTOM 	
	EDGE OF THE FOOTING AT A 45 DEGREE ANGLE FROM HORIZONTAL. 6. EXCAVATIONS FOR FOOTINGS BUILT NEXT TO OR AROUND EXISTING FOUNDATIONS, SHALL NOT EXTEND BELOW THE BOTTOM SURFACE OF THE EXISTING FOOTING UNLESS SPECIFICALLY NOTED	
	 OTHERWISE ON THE DESIGN DRAWINGS. HOLES ADJACENT TO EXISTING FOOTINGS (CLOSER TO THE FOOTING EDGE THAN THE HOLE DEPTH) CAN NOT BE OVER-EXCAVATED AND FILLED TO ACCOUNT FOR BAD SOIL UNLESS SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD. 7. ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS INCLUDING ELEVATION, SIZE AND THICKNESS 	
	OF FOUNDATIONS SHALL BE INDICATED BY THE GENERAL CONTRACTOR ON THE REINFORCING SHOP DRAWINGS. SUCH PROPOSED DEVIATIONS SHALL BE CIRCLED AND NOTED "ENGINEER VERIFY".	
A		
. 02/15/2017 BLB		
30x42.RFA REV.		

GENERAL NOTES - STRUCTURAL TESTS & SPECIAL INSPECTIONS (IBC 2012)

1704 SPECIAL INSPECTIONS

THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

THE PROVISIONS AS OUTLINED ON THESE DESIGN DOCUMENTS DEFINE THE STRUCTURAL SPECIAL INSPECTIONS APPLICABLE TO THE PROJECT. THE STATEMENT OF SPECIAL INSPECTIONS AS REQUIRED BY THE LOCAL

1704.3 STATEMENT OF SPECIAL INSPECTIONS

JURISDICTION FOR PERMIT APPLICATIONS IS TO BE PREPARED USING THE INFORMATION PRESENTED HERE.

1704.3.1 REPORT REQUIREMENTS

SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.

1704.4 CONTRACTOR RESPONSIBILITY

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A WIND AND/OR A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED WIND AND/OR SEISMIC SYSTEM, OR COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.

1704.5 INSPECTION OF FABRICATORS MATERIAL/ACTIVITY SERVICE EXTENT IN PLANT REVIEW VERIFY FABRICATION/QUALITY CONTROL PROCEDURES 1705.2 STEEL CONSTRUCTION MATERIAL/ACTIVITY SERVICE FABRICATOR AND ERECTOR DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN AISC 360, SUBMITTAL REVIEW CHAPTER N, PARAGRAPH 3.2 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS) MATERIAL VERIFICATION OF STRUCTURAL STEEL SHOP AND FIELD INSPECTION EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE, FIELD INSPECTION LENGTH, EMBEDMENT. SEE 1705.3 FOR ANCHORS) VERIFY MEMBER LOCATIONS AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION COMPLY WITH FIELD INSPECTION CONSTRUCTION DOCUMENTS STRUCTURAL STEEL WELDING: A. INSPECTION TASKS PRIOR TO WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, SHOP AND FIELD INSPECTION THE QA TASKS LISTED IN AISC 360, TABLE N5.4-1) B. INSPECTION TASKS DURING WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, SHOP AND FIELD INSPECTION OBSERVE THE QA TASKS LISTED IN AISC 360, TABLE N5.4-2) . INSPECTION TASKS AFTER WELDING (OBSERVE, OR

QA TASKS LISTED IN AISC 360, TABLE N5.4-3)		AS NOTED
D. NONDESTRUCTIVE TESTING (NDT) OF WELDED JOINTS		
1705.2.2 STEEL CONSTRUCTION OTHER THAN STRUCTUR		-
MATERIAL/ACTIVITY	SERVICE	EXTENT
REINFORCING STEEL:	SHOP AND FIELD INSPECTION	
A. OTHER REINFORCING STEEL		PERIODIC
1705.3 CONCRETE CONSTRUCTION		
MATERIAL/ACTIVITY	SERVICE	EXTENT
INSPECTION OF REINFORCING STEEL INSTALLATION (SEE 1705.2.2 FOR WELDING)	SHOP AND FIELD INSPECTION	PERIODIC

PERFORM FOR EACH WELDED JOINT OR MEMBER, THE

1705.4 MASONRY CONSTRUCTION

(SEE 1705.2.2 FOR WELDING)	SHOP AND FIELD INSPECTION	PERIODIC
VERIFY USE OF APPROVED DESIGN MIX	SHOP AND FIELD INSPECTION	PERIODIC
FRESH CONCRETE SAMPLING, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE TEMPERATURE OF CONCRETE	SHOP AND FIELD INSPECTION	CONTINUOUS
INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	SHOP AND FIELD INSPECTION	CONTINUOUS
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	SHOP AND FIELD INSPECTION	PERIODIC
INSPECTION OF FORMWORK FOR SHAPE, LINES, LOCATION AND DIMENSIONS	FIELD INSPECTION	PERIODIC
CONCRETE STRENGTH TESTING AND VERIFICATION OF COMPLIANCE WITH CONSTRUCTION DOCUMENTS	FIELD TESTING AND REVIEW OF LABORATORY REPORTS	PERIODIC

MATERIAL/ACTIVITY	SERVICE	EXTENT
(A) LEVEL A, B AND C QUALITY ASSURANCE:		
1) VERIFY COMPLIANCE WITH APPROVED SUBMITTALS	FIELD INSPECTION	PERIODIC
(B) LEVEL B QUALITY ASSURANCE:		
1) VERIFICATION OF f'm AND f'aac PRIOR TO CONSTRUCTION	TESTING BY UNIT STRENGTH METHOD OR PRISM TEST METHOD	PERIODIC
(C) LEVELS B AND C QUALITY ASSURANCE:		
 VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) OF SELF-CONSOLIDATING GROUT AS DELIVERED TO THE PROJECT 	FIELD TESTING	CONTINUOUS
2) VERIFY COMPLIANCE WITH APPROVED SUBMITTALS	FIELD INSPECTION	PERIODIC
3) VERIFY PROPORTIONS OF SITE-MIXED MORTAR AND GROUT	FIELD INSPECTION	PERIODIC
4) VERIFY GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHORAGES	FIELD INSPECTION	PERIODIC
5) VERIFY CONSTRUCTION OF MORTAR JOINTS	FIELD INSPECTION	PERIODIC
6) VERIFY PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES	FIELD INSPECTION	PERIODIC
7) VERIFY GROUT SPACE PRIOR TO GROUTING	FIELD INSPECTION	PERIODIC
8) VERIFY PLACEMENT OF GROUT	FIELD INSPECTION	CONTINUOUS
9) VERIFY SIZE AND LOCATION OF STRUCTURAL MASONRY ELEMENTS	FIELD INSPECTION	PERIODIC
10) VERIFY TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	FIELD INSPECTION	PERIODIC
11) VERIFY PREPARATION, CONSTRUCTION, AND PROTESTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)	FIELD INSPECTION	PERIODIC
12) PREPARE GROUT AND MORTAR SPECIMENS	FIELD TESTING	PERIODIC
13) OBSERVE PREPARATION OF PRISMS	FIELD INSPECTION	PERIODIC
1705.6 SOILS (STRUCTURAL) SEE CIVIL FOR MASS GRAD	NG AND OUTSIDE BLDG LIMITS	
MATERIAL/ACTIVITY	SERVICE	EXTENT
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	FIELD INSPECTION	PERIODIC
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	FIELD INSPECTION	PERIODIC
1705.10.3 WIND-RESISTING COMPONENTS		

ID CRITERIA DESCRIBED IN THE FOLLOWING GENERAL NOTES ARE ALL RUNNING BOND MASONRY WALLS. SEE SPECIFIC CRITERIA ON ADDITIONAL REQUIREMENTS AND/OR STACK BOND CRITERIA: INING BOND):

STEEL IN A CONCRETE FILLED CELL CONTINUOUS FROM FOOTING INTO VALL. LAP BARS WITH FOOTING DOWEL AND EXTEND 4" MINIMUM INTO T BOTTOM OF BOND BEAM AT FILLED CELL LOCATIONS AND FILL TOP L WHEN BOND BEAM IS FILLED. PROVIDE AT THE FOLLOWING

S OF ALL WALLS AND AT EACH SIDE OF EXPANSION AND CONTROL

S AND AT ALL OPENINGS GREATER THAN 16" IN WIDTH. NGTH OF ALL WALLS AS NOTED IN THE TABLE BELOW:

ER	ERTICAL FOR SEISMIC DESIGN CATEGORY C						
LO	LOAD BEARING WALLS LOAD BEARING WALLS						
#4	#4 @ 0'-8" O.C. MAX. 1-#4 @ 0'-8" O.C. MAX.						
S SHALL HAVE A MINIMUM LAP AS NOTED IN THE TABLE BELOW							
MASONRY REINFORCING LAP LENGTHS							
	#4	#5	#6	#7	#8	#9	

30" 36" 42" 48" 54" 24" I, BARS TO BE CENTERED IN THE WALL

SHALL BE FILLED WITH CONCRETE IN 4'-0" MAX. LIFTS.

(RUNNING BOND):

OINT REINFORCING AS NOTED IN THE TABLE BELOW:

RIZONTAL FOR SEISMIC DESIGN CATEGORY C					
LOAD BEARING WALLS	LOAD BEARING WALLS				
GITUDINAL W1.7 (9 GAGE) RES @ 16" O.C. MAX.	2-LONGITUDINAL W1.7 (9 GAGE) WIRES @ 16" O.C. MAX.				

LED BOND BEAM WITH 2 - #5 REBARS CONTINUOUS WHERE WALLS ARE CTED TO ROOF AND AT THE TOPS OF ALL WALLS. LED COURSE WITH 1 - #4 REBAR AT DOOR HEADS. EXTEND THE BAR DIAMETERS BEYOND OPENING.

BE LOCATED IN ALL WALLS AT THE FOLLOWING LOCATIONS:

ACING OF 3 TIMES THE WALL HEIGHT, BUT NOT GREATER THAN 40'-0" ON NOT OVER ONE TIME THE WALL HEIGHT FROM BUILDING CORNERS. OUNDATIONS.

OL JOINTS: ALL HORIZONTAL JOINT REINFORCING SHALL TERMINATE AT VLESS NOTED OTHERWISE ON DRAWINGS). INTERRUPT HORIZONTAL EDIATE BOND BEAMS. ALL BOND BEAM REINFORCING IN BOND BEAMS HE TOP OF THE WALL SHALL BE CONTINUOUS THROUGH CONTROL

NOT SHOWN ON THE DRAWINGS, COORDINATE WITH THE ARCHITECT NEER, BEFORE CONSTRUCTION BEGINS, TO DETERMINE JOINT

OCATED WHERE NON-LOAD BEARING WALLS ABUT LOAD BEARING

MASONRY WALLS, (FULL HEIGHT AND PARTIAL HEIGHT) SHALL BE LENGTH. BRACE POINTS SHALL OCCUR AT CONCRETE FILLED VERTICAL DTE 2.A ABOVE.

AL STEEL, SHALL BE IN ACCORDANCE WITH THE FOLLOWING: VEOUS STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE TE OF STEEL CONSTRUCTION, "SPECIFICATIONS FOR STRUCTURAL STEEL

STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING: S AND BARS - ASTM A-36. STM F1554, GRADE 36.

/ STRUCTURAL SECTIONS (HSS) - ASTM A500, GRADE B STRUCTURAL BOLTED CONNECTIONS SHALL CONFORM TO THE FOLLOWING:

- 3/4" DIAMETER ASTM A-325-N TYPE 1, HEAVY-HEX. TYPE 1, HARDENED (RCSC SPEC TABLE 6.1 AND PART 14 FOR ANCHOR R FINISH SHALL MATCH THE FINISH OF THE STEEL IT CONNECTS. ON THE DESIGN DRAWINGS ALL STRUCTURAL AND MISCELLANEOUS

E 1/4" FILLET WITH E70XX ELECTRODES. ALL WELDS CONFORM TO

SS SHALL NOT BE LESS THAN 3/8" FOR MISCELLANEOUS PLATES. MEMBERS THAT FORM PART OF A STEEL STRUCTURE BEFORE IAINTAIN ERECTION TOLERANCES OF STRUCTURAL STEEL WITHIN AISC ACTICE FOR STEEL BUILDINGS AND BRIDGES." NG DURING ERECTION OR ENLARGE HOLES BY BURNING. DAMAGED DURING ERECTION.

IATERIAL SUBMITTALS SHALL BE REQUIRED FOR STRUCTURAL AND , ACCESSORIES; AND PRODUCT DATA, ETC. MITTED "CONTRACTOR APPROVED".

MATERIAL/ACTIVITY

ROOF CLADDING

PERIODIC EXTENT

SUBMITTAL PERIODIC PERIODIC

EACH

PERIODIC OBSERVE OR PERFORM AS NOTED

OBSERVE OR PERFORM AS NOTED

SHOP AND FIELD INSPECTION

RIODIC RIODIC TINUOUS

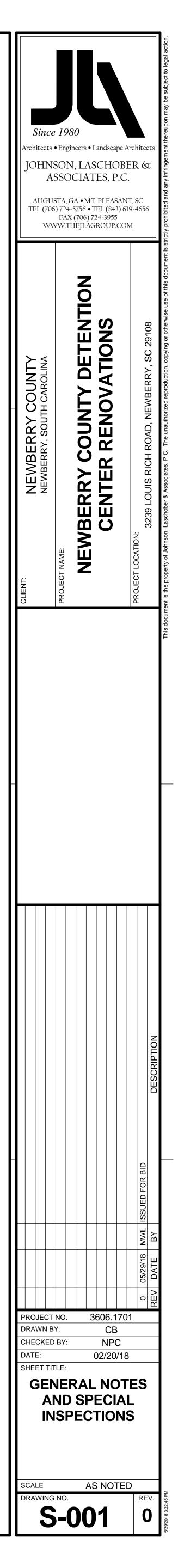
TINUOUS RIODIC RIODIC RIODIC

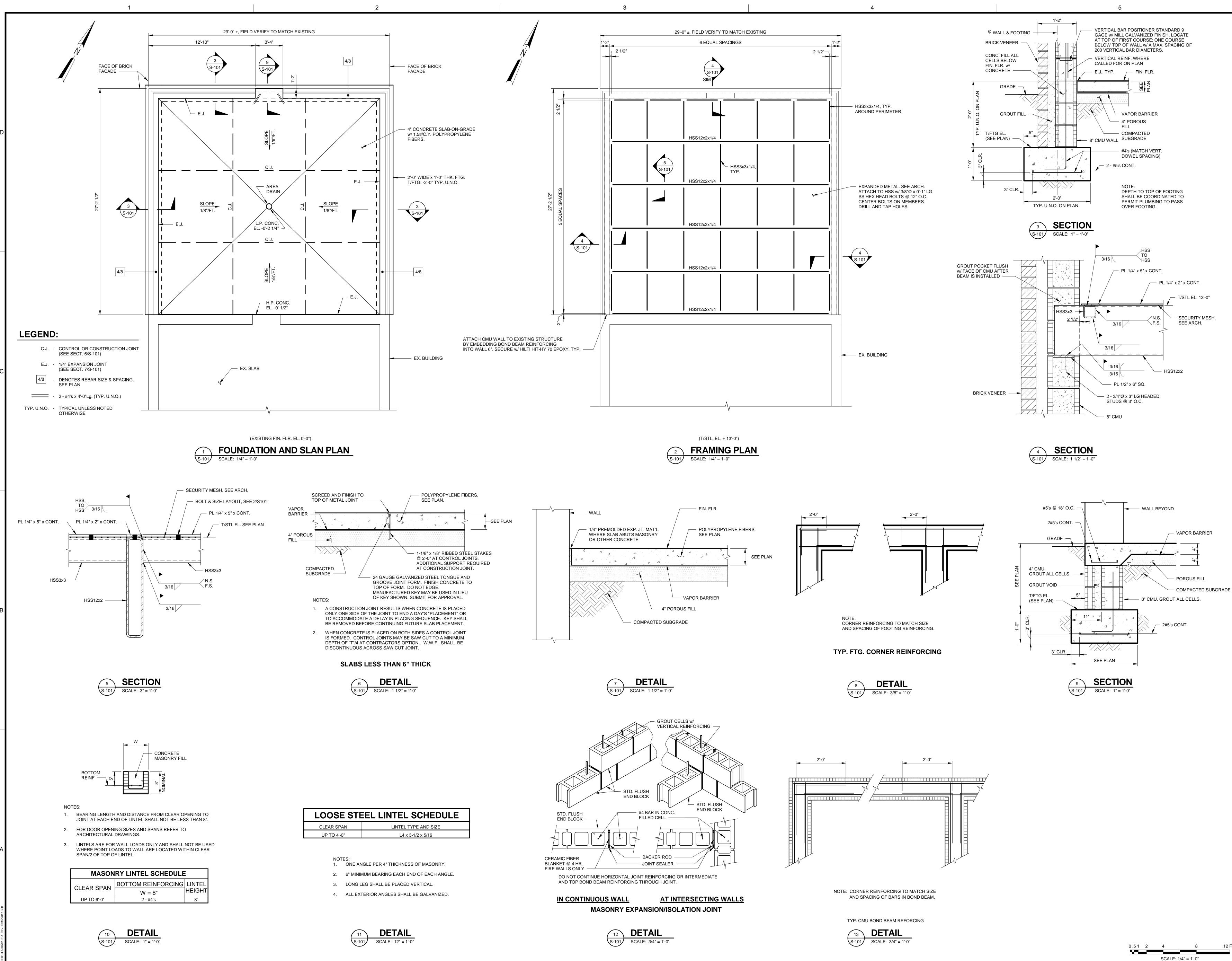
> TENT

RIODIC EXTENT PERIODIC

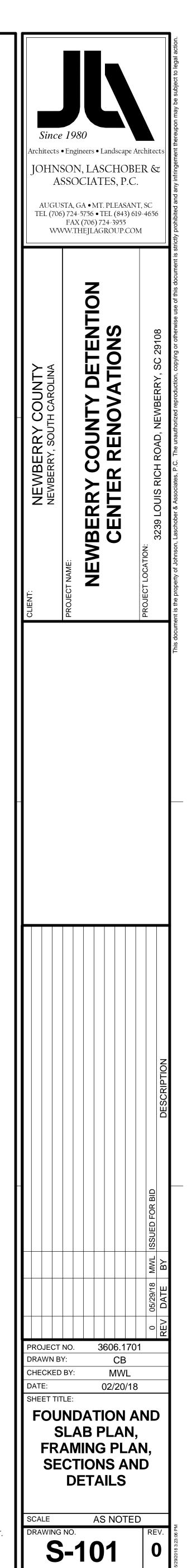
SERVICE

SHOP AND FIELD INSPECTION





0 .5 1	2	4	8
		SCALE:	1/4" = 1'-0"



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FIRE SUPPRESSION GENERAL NOTES:

GENERAL: THESE GENERAL NOTES PRESENT AND/OR SUMMARIZE KEY PRODUCT INFORMATION FOR THE PLAN READER'S CONVENIENCE. SEE PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.

WORK COVERED BY THIS DOCUMENT SHALL INCLUDE ALL LABOR, MATERIAL, PRODUCTS, AND SERVICES FOR, AND INCIDENTAL TO, INSTALLATION OF COMPLETE AND OPERATING HVAC SYSTEMS DRAWN OR SPECIFIED.

ALL WORK SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES INCLUDING, BUT NOT LIMITED TO, NFPA 13, NFPA 14, NFPA 20, NFPA 22, NFPA 24, 2015 INTERNATIONAL BUILDING CODE w/ AMENDMENTS, AND 2015 INTERNATIONAL FIRE CODE w/ AMENDMENTS.

ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ARCHITECT OR ENGINEER.

SPRINKLER PIPE SIZING, PIPE ROUTING, SPRINKLER LOCATIONS, AND PIPE SUPPORTS/BRACING BY SPRINKLER CONTRACTOR. PROVIDE SHOP DRAWINGS, HYDRAULIC CALCULATIONS, AND EQUIPMENT SUBMITTALS FOR REVIEW BY ENGINEER, AHJ, AND OWNER. SEE DIVISION 21 SPECIFICATIONS, IF APPLICABLE.

ALL WORK SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES INCLUDING, BUT NOT LIMITED TO, NFPA 13, NFPA 14, NFPA 20, NFPA 24, 2012 INTERNATIONAL BUILDING CODE w/ AMENDMENTS, AND 2012 INTERNATIONAL FIRE CODE w/ AMENDMENTS.

EXACT LOCATIONS AND ROUGHING REQUIREMENTS FOR PIPING AND EQUIPMENT SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS, LARGE SCALE ARCHITECTURAL DETAILS, AND APPROVED MANUFACTURER'S SHOP DRAWINGS. PARTICULAR ATTENTION SHALL BE DIRECTED TO FIXTURES OR EQUIPMENT FURNISHED UNDER OTHER DIVISIONS.

SEE ARCHITECTURAL PLANS FOR WALL CONSTRUCTION AND REFLECTED CEILING PLANS. EXACT LOCATION OF PIPING SHALL BE DETERMINED BY JOB CONDITIONS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HIS WORK WITH THAT OF OTHER TRADES

AND ARRANGE PIPING TO CLEAR STRUCTURAL MEMBERS AND DUCTWORK. IN FIRE WALLS, PACK ANNULAR SPACE BETWEEN PIPE AND WALL WITH FIRESTOP COMPOUND IN ACCORDANCE WITH ITS UL LISTING.

PIPING AND FITTINGS: WET-PIPE SPRINKLER SYSTEM, NPS 2 AND SMALLER, SHALL BE STANDARD-WEIGHT, BLACK-STEEL PIPE WITH THREADED ENDS; UNCOATED, GRAY-IRON THREADED FITTINGS; AND THREADED JOINTS.

<u>LISTED FIRE-PROTECTION VALVES:</u> VALVES SHALL BE UL LISTED AND FM APPROVED, WITH MINIMUM 175-PSIG PRESSURE RATING. VALVES FOR GROOVED-END PIPING MAY BE FURNISHED WITH GROOVED ENDS INSTEAD OF TYPE OF ENDS SPECIFIED.

SPECIALTY VALVES: VALVES SHALL BE UL LISTED AND FM APPROVED, WITH MINIMUM 175-PSIG PRESSURE RATING. VALVES FOR GROOVED-END PIPING MAY BE FURNISHED WITH GROOVED ENDS INSTEAD OF TYPE OF ENDS SPECIFIED.

SPRINKLERS: SPRINKLERS SHALL BE UL LISTED OR FM APPROVED, WITH MINIMUM 175-PSIG PRESSURE RATING.

AUTOMATIC SPRINKLERS WITH HEAT-RESPONSIVE ELEMENT SHALL BE UL 199, NOMINAL 1/2-INCH ORIFICE WITH DISCHARGE COEFFICIENT K OF 5.6, AND FOR "ORDINARY" TEMPERATURE CLASSIFICATION RATING UNLESS OTHERWISE INDICATED OR REQUIRED BY APPLICATION.

SPRINKLER FINISHES SHALL BE CHROME PLATED, BRONZE, OR PAINTED, AS INDICATED. SPRINKLER ESCUTCHEONS SHALL BE CHROME-PLATED STEEL, ONE PIECE, FLAT.

SPRINKLER GUARDS SHALL BE UL 199, WIRE CAGE WITH FASTENING DEVICE FOR ATTACHING TO SPRINKLER.

ALARM DEVICES: DEVICES SHALL BE UL LISTED OR FM APPROVED. ALARM-DEVICE TYPES SHALL MATCH PIPING AND EQUIPMENT CONNECTIONS.

PROVIDE SHOP DRAWINGS, HYDRAULIC CALCULATIONS, AND EQUIPMENT SUBMITTALS FOR REVIEW BY ENGINEER, AHJ, AND OWNER.

HAZARD CLASSIFICATION:

ALL AREAS SHALL BE REGARDED AS LIGHT HAZARD UNLESS NOTED OTHERWISE. L.H. - LIGHT HAZARD, PER NFPA 13

OH-1 - ORDINARY HAZARD, GROUP 1, PER NFPA 13

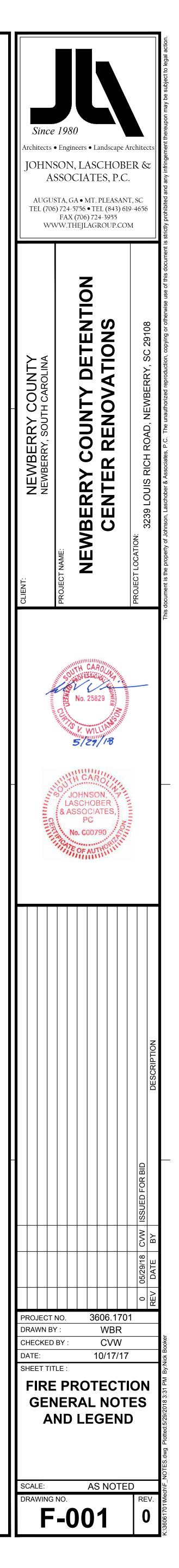
LEGEND:

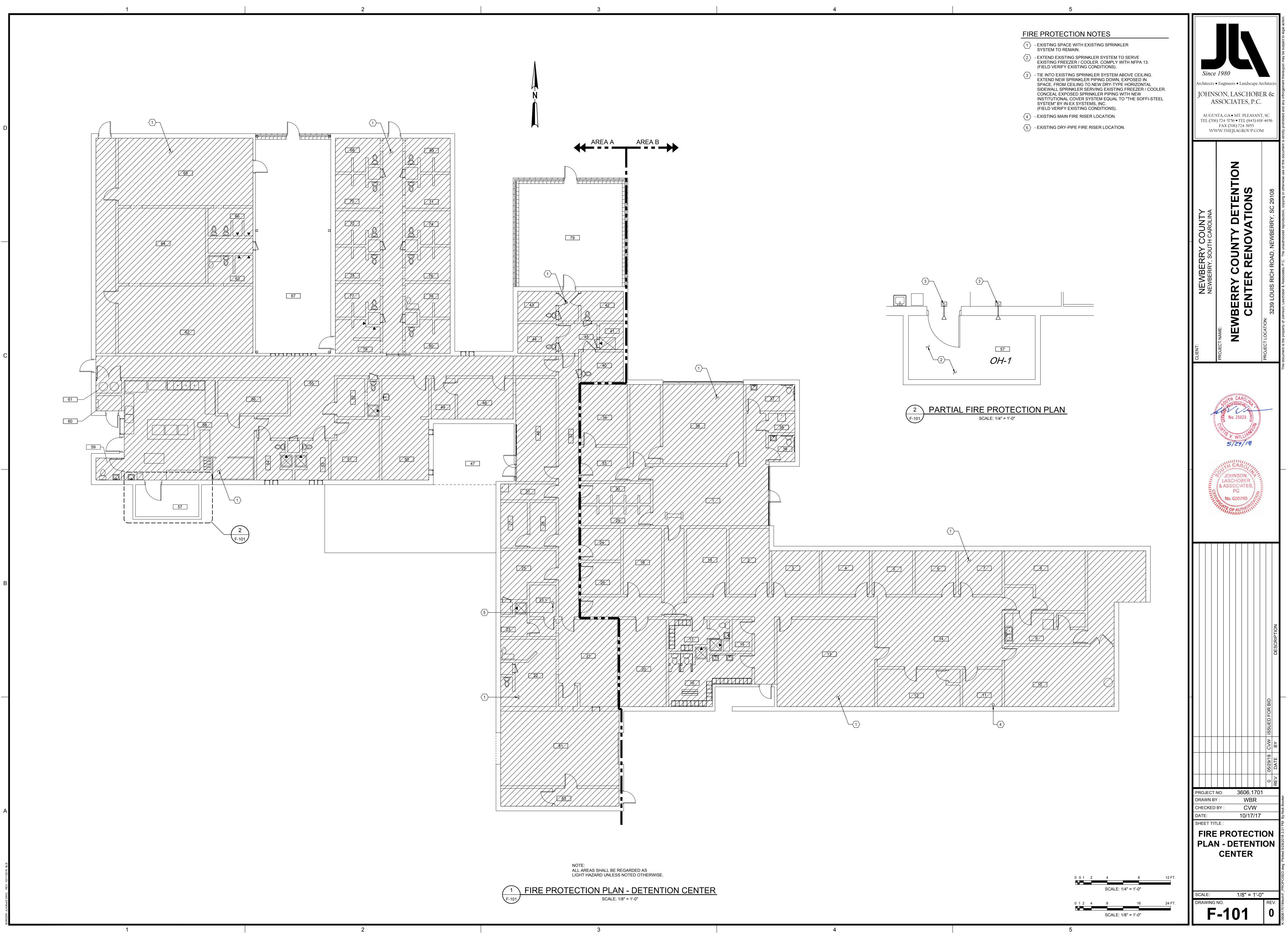
- HORIZONTAL SIDEWALL SPRINKLER

DESIGN CRITERIA:

1. TYPES OF SYSTEMS: - WET PIPE

- 2. DENSITY / DESIGN AREA: - LIGHT HAZARD: 0.10 GPM/FT²OVER H.M.D. 1500 FT² - ORD. HAZARD, GR. 1: 0.15 GPM/FT² OVER H.M.D. 1500 FT²
- 3. SPRINKLERS SHALL BE: - 5.6 K-FACTOR AND A TEMPERATURE RATING OF 165°F - UPRIGHT TYPE FOR ROOMS WITHOUT CEILINGS - RECESSED PENDENT TYPE FOR ROOMS WITH CEILINGS - SIDEWALL TYPE FOR WALL MOUNTING - UPRIGHT, PENDENT, AND SIDEWALL, DRY TYPE FOR SPACES SUBJECT TO FREEZING - BRIGHT CHROME WITH BRIGHT CHROME ESCUTCHEON IN FINISHED SPACES EXPOSED TO VIEW, ROUGH BRONZE IN UNFINISHED SPACES NOT EXPOSED TO VIEW
- INSTITUTIONAL IN ALL INMATE AREAS
- 4. MAXIMUM PROTECTION AREA PER SPRINKLER SHALL NOT EXCEED 225 SQ. FT. FOR LIGHT HAZARD AND 130 SQ. FT. FOR ORDINARY HAZARD.
- 5. PROVIDE SEISMIC BRACING PER NFPA AND IBC.
- 6. HOSE ALLOWANCE SHALL BE 100 GPM FOR LIGHT HAZARD AND 250 GPM FOR ORDINARY HAZARD OCCUPANCIES.
- 7. COMPLY WITH NFPA 13 FOR ABOVEGROUND PIPING.





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		SCALE: 1	/4" = 1'-0"
012	4	8	16
		SCALE: 1	/8" = 1'-0"

PLUMBING GENERAL NOTES:

THESE GENERAL NOTES PRESENT AND/OR SUMMARIZE KEY PRODUCT INFORMATION FOR THE PLAN READER'S CONVENIENCE. SEE PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.

WORK COVERED BY THIS DOCUMENT SHALL INCLUDE ALL LABOR, MATERIAL, PRODUCTS, AND SERVICES FOR, AND INCIDENTAL TO, INSTALLATION OF COMPLETE AND OPERATING PLUMBING SYSTEMS DRAWN OR SPECIFIED.

ALL WORK SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES INCLUDING, BUT NOT LIMITED TO, 2015 INTERNATIONAL PLUMBING CODE w/ AMENDMENTS, 2015 INTERNATIONAL FUEL GAS CODE w/ AMENDMENTS, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND ALL ADA AMENDMENTS.

ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ARCHITECT OR ENGINEER.

INSTALL ALL PLUMBING FIXTURES PER MANUFACTURER'S INSTRUCTIONS.

EXACT LOCATIONS AND ROUGHING REQUIREMENTS FOR ALL FIXTURES AND EQUIPMENT SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS, LARGE SCALE ARCHITECTURAL DETAILS, AND APPROVED MANUFACTURER'S SHOP DRAWINGS. PARTICULAR ATTENTION SHALL BE DIRECTED TO FIXTURES OR EQUIPMENT FURNISHED UNDER OTHER DIVISIONS.

PIPING IS SHOWN IN ITS GENERAL LOCATION (UNLESS DIMENSIONED). EXACT LOCATION SHALL BE DETERMINED BY JOB CONDITIONS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HIS WORK WITH THAT OF OTHER TRADES AND ARRANGE PIPING TO CLEAR STRUCTURAL MEMBERS AND DUCTWORK. EXACT LOCATIONS SHALL BE PROVIDED ON "AS-BUILT" DRAWINGS.

MINIMUM SIZE WATER LINE FOR THREE OR MORE FIXTURES SHALL BE 3/4". REFER TO PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL RUNOUT SIZES.

ALL PIPING TO BE CONCEALED IN A WALL, CEILING, OR A CHASE UNLESS OTHERWISE NOTED. PIPING SHOWN OUT OF CHASES FOR CLARITY.

PROVIDE SLEEVES FOR PIPES PASSING THRU FLOORS, MASONRY WALLS AND FIRE OR SMOKE PARTITIONS. PACK MINERAL WOOL IN ANNULAR SPACE BETWEEN PIPE SLEEVE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE MOUNTING HEIGHTS. ALL ACCESSIBLE FIXTURES SHALL COMPLY WITH STATE BUILDING CODE AND 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

ARRANGEMENTS OF WORK SHALL BE AS SHOWN. DRAWINGS ARE NOT INTENDED TO INDICATE ALL OFFSETS AND FITTINGS. EXAMINE ALL DRAWINGS, INVESTIGATE CONDITIONS TO BE ENCOUNTERED AND ARRANGE WORK ACCORDINGLY; FURNISH ALL FITTINGS AND OFFSETS.

MEASUREMENT OF DRAWINGS BY SCALE SHALL NOT BE USED AS DIMENSIONS FOR FABRICATION. MEASUREMENTS FOR LOCATING FIXTURES, EQUIPMENT, DUCTWORK, PIPING AND ACCESSORIES SHALL BE MADE ON THE SITE AND SHALL BE BASED ON ACTUAL JOB CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEASUREMENTS WHERE THE CONTRACTOR PREFABRICATES ANY WORK BASED ON THE DRAWINGS WITHOUT VERIFYING ACTUAL JOB CONDITIONS, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COST INVOLVED IN MAKING CHANGES TO PREFABRICATED WORK WHERE CONFLICTS OCCUR.

ARRANGE FOR CHASES, SLOTS, AND OPENINGS IN OTHER BUILDING COMPONENTS DURING PROGRESS OF CONSTRUCTION TO ALLOW FOR INSTALLATIONS.

INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT LEVEL, PLUMB, PARALLEL, AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS.

COPPER PIPING SHALL NOT BE INSTALLED IN DIRECT CONTACT WITH MASONRY, CEMENT MORTAR, CONCRETE, OR DISSIMILAR METALS. PLUMBING CONTRACTOR TO PROVIDE SLEEVES AND COORDINATE w/ GENERAL CONTRACTOR DURING SLAB INSTALLATION.

CUTTING AND REPAIRING: THE PLUMBING CONTRACTOR SHALL DO ALL CUTTING AND REPAIRING OF WALLS, FLOORS, CEILINGS, ETC. NECESSARY FOR THE INSTALLATION OF THE WORK BUT HE SHALL NOT CUT INTO ANY STRUCTURAL MEMBER WITHOUT THE PERMISSION OF THE ARCHITECT.

PROVIDE SHOCK ABSORBERS AS INDICATED ON PLANS.

PLUMBING CONTRACTOR TO PROVIDE PROPER SEPARATION BETWEEN WATER SUPPLY AND WASTE/SANITARY PIPING PER 2012 INTERNATIONAL PLUMBING CODE. PLUMBING CONTRACTOR TO PROVIDE PREPRINTED 1/2" HIGH LETTERED LABELS FOR THE

FOLLOWING: INTERIOR MAIN SHUT-OFF VALVE, POTABLE WATER SUPPLY PIPING, & HOT WATER PIPING. LABELS SHOULD BE MOUNTED EVERY 20'-0" ON HORIZONTAL RUNS. GENERAL CONTRACTOR TO PROVIDE ACCESS PANELS FOR ALL INACCESSIBLE, ABOVE

CEILING VALVES AND EQUIPMENT. COORDINATE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

UNDER-BUILDING SLAB, DOMESTIC WATER, BUILDING SERVICE PIPING SHALL BE SOFT COPPER TUBING, ASTM B 88, TYPE K, WITH WROUGHT-COPPER, SOLDER-JOINT FITTINGS, AND BRAZED JOINTS. AVOID JOINTS UNDER BUILDING SLAB WHERE POSSIBLE. ALL OTHER UNDER-BUILDING SLAB, DOMESTIC WATER PIPING SHALL BE SOFT COPPER TUBING, ASTM B 88, TYPE L, WITH WROUGHT-COPPER, SOLDER-JOINT FITTINGS, AND

BRAZED JOINTS. AVOID JOINTS UNDER BUILDING SLAB WHERE POSSIBLE.

ALL ABOVEGROUND DOMESTIC WATER PIPING SHALL BE HARD COPPER TUBING, ASTM B 88, TYPE L, WITH CAST- OR WROUGHT-COPPER, SOLDER-JOINT FITTINGS, AND SOLDERED JOINTS.

ALL INDOOR DOMESTIC COLD, HOT, AND RECIRCULATED HOT WATER PIPING SHALL BE INSULATED WITH 1 INCH THICK FLEXIBLE CLOSED-CELL ELASTOMERIC INSULATION, COMPLYING WITH ASTM C 534, TYPE 1 FOR TUBULAR MATERIALS, EQUAL TO ARMACELL "AP ARMAFLEX".

SANITARY WASTE AND VENT PIPING: ALL SOIL, DRAIN, WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC-DWV WITH SOLVENT WELD JOINTS, CONFORMING TO ASTM D 2665 AND ASTM D 2564. IN AREAS WITH RETURN AIR PLENUM ABOVE THE CEILING, TRANSITION PIPING BELOW CEILING FROM PVC TO HUBLESS CAST-IRON. EXTEND CAST IRON VENT THROUGH ROOF. PVC PIPING IS NOT ALLOWED IN RETURN AIR PLENUM SPACES.

ALL SOIL, DRAIN, WASTE AND VENT PIPING LOCATED IN RETURN AIR PLENUMS SHALL BE HUBLESS CAST-IRON SOIL PIPE AND FITTINGS, CONFORMING TO ASTM A 888 OR CISPI 301, WITH CISPI HUBLESS PIPING COUPLINGS, CONFORMING TO ASTM C 1277 AND CISPI 310, AND COUPLED JOINTS.

ALL PIPING PASSING THROUGH THE ROOF SHALL BE FLASHED WITH ROOF FLASHING ASSEMBLY COMPATIBLE WITH THE ROOFING SYSTEM. ROOF DRAINAGE PIPING:

ALL ROOF DRAINAGE PIPING SHALL BE SCHEDULE 40 PVC-DWV WITH SOLVENT WELD JOINTS, CONFORMING TO ASTM D 2665 AND ASTM D 2564. IN AREAS WITH RETURN AIR PLENUM ABOVE THE CEILING, TRANSITION PIPING BELOW CEILING FROM PVC TO HUBLESS CAST-IRON. PVC PIPING IS NOT ALLOWED IN RETURN AIR PLENUM SPACES.

ALL ROOF DRAINAGE PIPING LOCATED IN RETURN AIR PLENUMS SHALL BE HUBLESS CAST-IRON SOIL PIPE AND FITTINGS, CONFORMING TO ASTM A 888 OR CISPI 301, WITH CISPI HUBLESS PIPING COUPLINGS, CONFORMING TO ASTM C 1277 AND CISPI 310, AND COUPLED JOINTS.

ALL ROOF DRAIN BODIES AND HORIZONTAL ROOF DRAIN CONDUCTORS (PRIMARY AND OVERFLOW) SHALL BE INSULATED WITH 1 INCH THICK FLEXIBLE CLOSED-CELL ELASTOMERIC INSULATION, COMPLYING WITH ASTM C 534, TYPE 1 FOR TUBULAR MATERIALS AND TYPE II FOR SHEET MATERIALS, EQUAL TO ARMACELL "AP ARMAFLEX". VERTICAL CONDUCTORS NEED NOT BE INSULATED.

REDUCER FROM LARGER HORIZONTAL PIPE TO SMALLER VERTICAL PIPE SHALL BE LOCATED IN VERTICAL PIPE AFTER 1/4 BEND. INCREASER FROM SMALLER VERTICAL PIPE TO LARGER HORIZONTAL PIPE SHALL BE LOCATED IN VERTICAL PIPE BEFORE 1/4 BEND.

ALL OUTDOOR, UNDERGROUND GAS PIPING SHALL BE PE PIPE AND FITTINGS, COMPLYING WITH ASTM D 2513, ASTM D 2683, AND ASTM D 3261, JOINED BY HEAT FUSION, WITH SERVICE-LINE RISERS WITH TRACER WIRE TERMINATED IN AN ACCESSIBLE LOCATION. ALL OUTDOOR, ABOVEGROUND GAS PIPING SHALL BE SCHEDULE 40, BLACK STEEL PIPE, COMPLYING WITH ASTM A 53, WITH MALLEABLE-IRON FITTINGS AND THREADED JOINTS, COMPLYING WITH ASME B 16.3, OR WROUGHT-STEEL FITTINGS AND WELDED JOINTS,

NATURAL GAS. ALL INDOOR, ABOVEGROUND GAS PIPING SHALL BE SCHEDULE 40, BLACK STEEL PIPE, COMPLYING WITH ASTM A 53, WITH MALLEABLE-IRON FITTINGS AND THREADED JOINTS, COMPLYING WITH ASME B 16.3, OR WROUGHT-STEEL FITTINGS AND WELDED JOINTS, COMPLYING WITH ASTM A 234. JOINT COMPOUND AND TAPE SHALL BE SUITABLE FOR NATURAL GAS.

COMPLYING WITH ASTM A 234. JOINT COMPOUND AND TAPE SHALL BE SUITABLE FOR

PRESSURE REGULATORS SHALL BE SINGLE STAGE AND SUITABLE FOR NATURAL GAS. SERVICE PRESSURE REGULATORS SHALL COMPLY WITH ANSI Z21.80. LINE PRESSURE REGULATORS SHALL COMPLY WITH ANSI Z21.80. APPLIANCE PRESSURE REGULATORS SHALL COMPLY WITH ANSI Z21.18.

FIELD QUALITY CONTROL: ALL DOMESTIC WATER PIPING SHALL BE TESTED FOR LEAKS AND DEFECTS; FILL DOMESTIC WATER PIPING, CAP, AND SUBJECT PIPING TO STATIC WATER PRESSURE OF 50 PSIG ABOVE OPERATING PRESSURE, WITHOUT EXCEEDING PRESSURE RATING OF PIPING SYSTEM MATERIALS. ISOLATE TEST SOURCE AND ALLOW IT TO STAND FOR FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED. LEAVE DOMESTIC WATER PIPING UNCOVERED AND UNCONCEALED UNTIL IT HAS BEEN

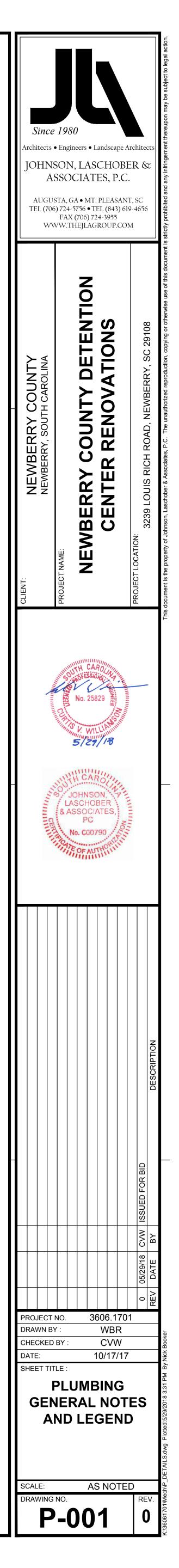
TESTED AND APPROVED.

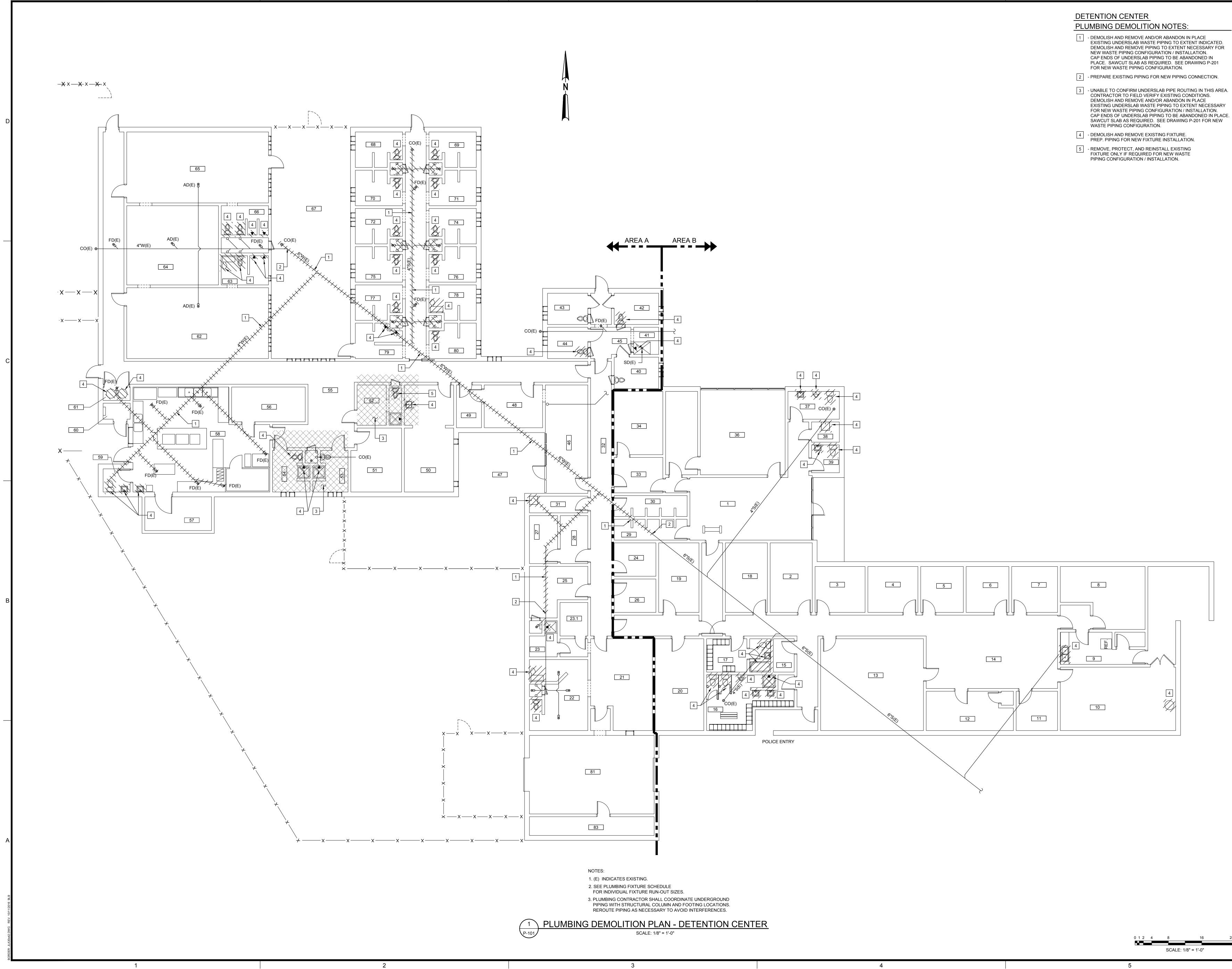
ALL SANITARY WASTE AND VENT PIPING SHALL BE TESTED FOR LEAKS AND DEFECTS AT COMPLETION OF ROUGH-IN; CLOSE OPENINGS IN PIPING SYSTEM AND FILL WITH WATER TO POINT OF OVERFLOW, BUT NOT LESS THAN 10-FOOT HEAD OF WATER. FROM 15 MINUTES BEFORE INSPECTION STARTS TO COMPLETION OF INSPECTION, WATER LEVEL MUST NOT DROP. INSPECT JOINTS FOR LEAKS. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING, OR PORTIONS THEREOF, UNTIL SATISFACTORY RESULTS ARE OBTAINED. INSTALL TEST TEES WHEN THE SYSTEM IS TO BE TESTED IN SECTIONS. LEAVE SANITARY WASTE AND VENT PIPING UNCOVERED AND UNCONCEALED UNTIL IT HAS BEEN TESTED AND APPROVED.

ALL ROOF DRAINAGE PIPING SHALL BE TESTED FOR LEAKS AND DEFECTS AT COMPLETION OF ROUGH-IN; CLOSE OPENINGS IN PIPING SYSTEM AND FILL WITH WATER TO POINT OF OVERFLOW, BUT NOT LESS THAN 10-FOOT HEAD OF WATER. FROM 15 MINUTES BEFORE INSPECTION STARTS TO COMPLETION OF INSPECTION, WATER LEVEL MUST NOT DROP. INSPECT JOINTS FOR LEAKS. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING, OR PORTIONS THEREOF, UNTIL SATISFACTORY RESULTS ARE OBTAINED. INSTALL TEST TEES WHEN THE SYSTEM IS TO BE TESTED IN SECTIONS. LEAVE ROOF DRAINAGE PIPING UNCOVERED AND UNCONCEALED UNTIL IT HAS BEEN TESTED AND APPROVED.

TEST, INSPECT, AND PURGE NATURAL GAS PIPING SYSTEM IN ACCORDANCE TO THE INTERNATIONAL FUEL GAS CODE AND AUTHORITIES HAVING JURISDICTION.

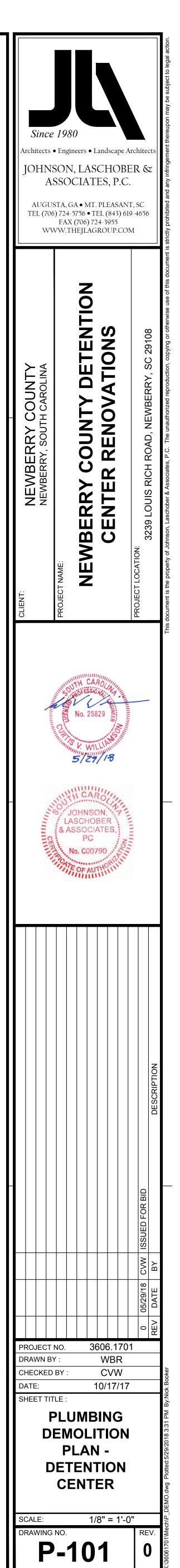
PLUMBING LEGEND					
SYMBOL	DESCRIPTION				
	UNDERGROUND SOIL & WASTE PIPING				
FM	FORCE MAIN				
	VENT PIPING				
FD 🐲	FLOOR DRAIN (SEE SCHEDULE)				
wco	WALL CLEANOUT (SEE SCHEDULE)				
FCO ©	FLOOR CLEANOUT (SEE SCHEDULE)				
	GROUND CLEANOUT (SEE SCHEDULE)				
VTR V	VENT THROUGH ROOF VENT PIPE				
Ŵ	WASTE PIPING				
S	SANITARY PIPING				
G	GAS PIPING				
(E)	EXISTING				
CW	COLD WATER PIPING				
HW	HOT WATER PIPING				
P.R.V.	PRESSURE REDUCING VALVE				
B.F.P.	BACKFLOW PREVENTER				
DWN.	DOWN				
TYP.	TYPICAL				
U.N.O.	UNLESS NOTED OTHERWISE				
RD	ROOF DRAIN (SEE SCHEDULE)				
GW	GREASE WASTE PIPING				
	POTABLE WATER PIPING				
	POTABLE WATER UNDERGROUND PIPING				
· · ·	140°F HOT WATER PIPING				
	110°F HOT WATER PIPING				
<u> </u>	HOT WATER RECIRCULATION PIPING				
\\\\\	PIPING / FIXTURES TO BE DEMOLISHED				
►	FLOW ARROW				
Ψ	FULL PORT BALL VALVE				
3/4"-WH +	WALL HYDRANT (SEE PLUMBING SCHEDULE)				
1/2"-HB +	HOSE BIBB (SEE PLUMBING SCHEDULE)				
Q	PIPE DOWN				
o	PIPE UP				
	P-TRAP				

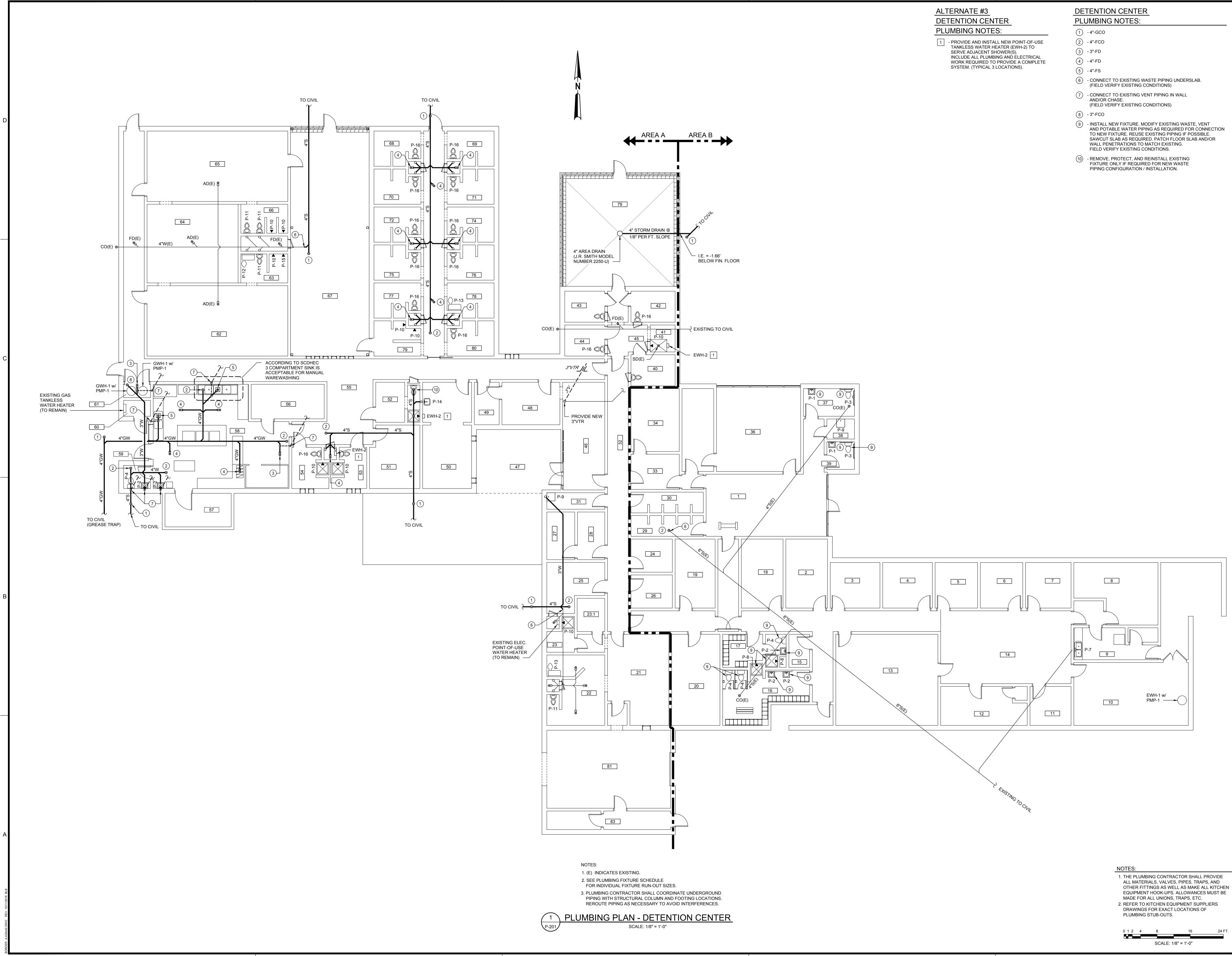




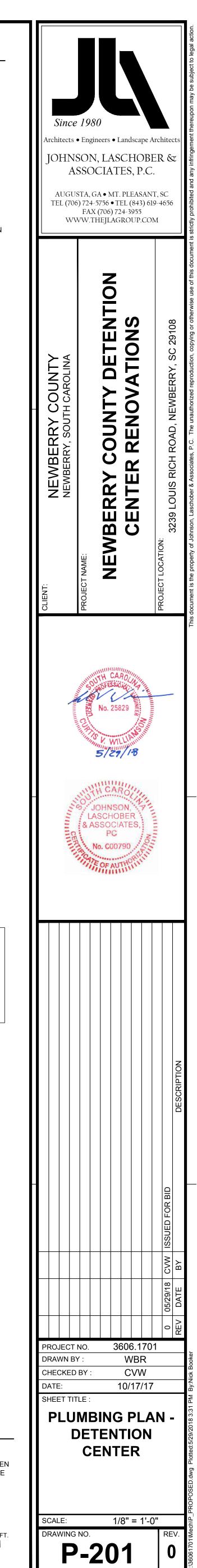
- EXISTING UNDERSLAB WASTE PIPING TO EXTENT NECESSARY FOR NEW WASTE PIPING CONFIGURATION / INSTALLATION. CAP ENDS OF UNDERSLAB PIPING TO BE ABANDONED IN PLACE. SAWCUT SLAB AS REQUIRED. SEE DRAWING P-201 FOR NEW







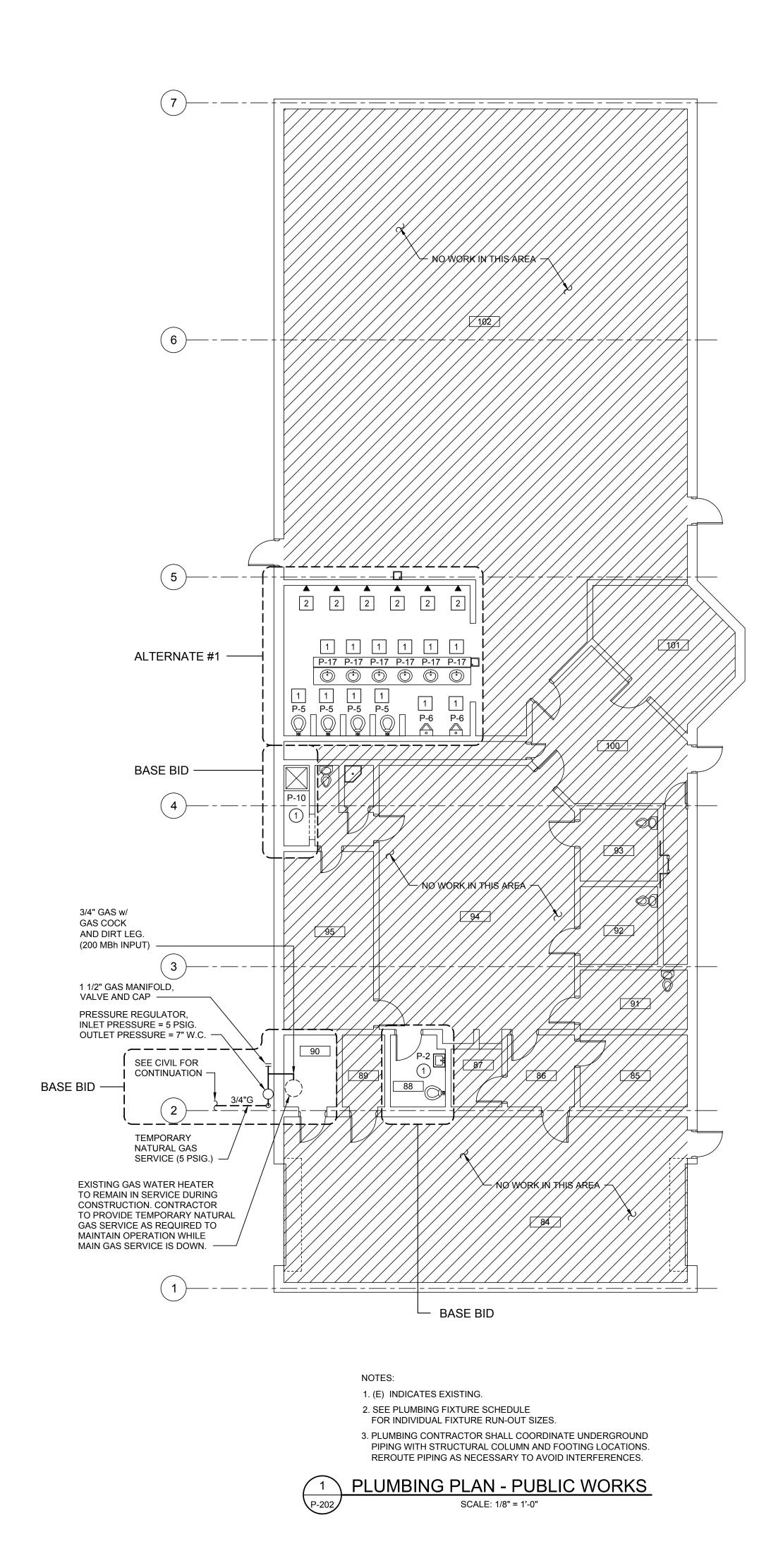
- (9) INSTALL NEW FIXTURE. MODIFY EXISTING WASTE, VENT AND POTABLE WATER PIPING AS REQUIRED FOR CONNECTION TO NEW FIXTURE. REUSE EXISTING PIPING IF POSSIBLE. SAWCUT SLAB AS REQUIRED. PATCH FLOOR SLAB AND/OR



24 FT.

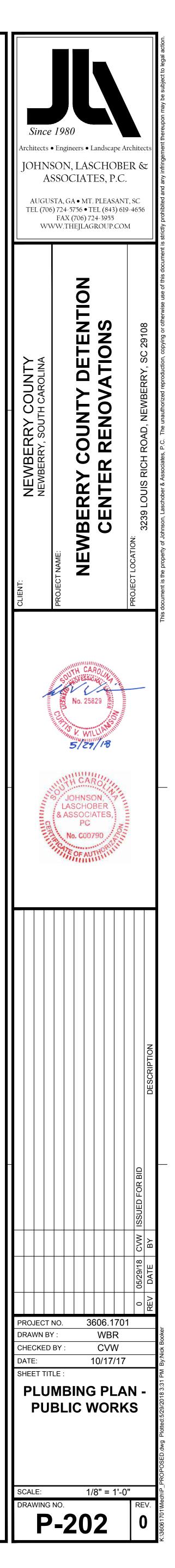
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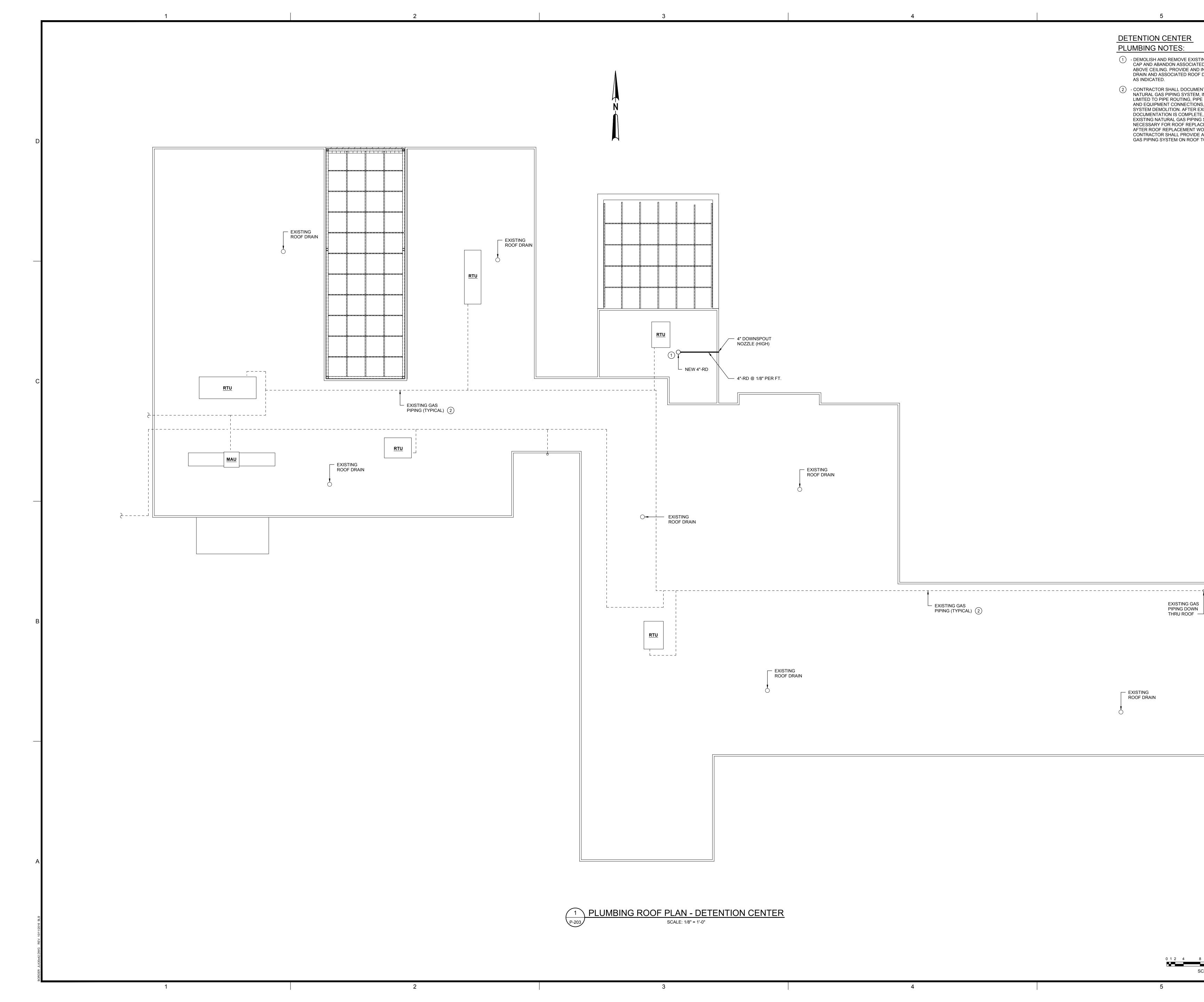
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1 - DEMOLISH AND REMOVE EXISTING FIXTURE AND INSTALL NEW. MODIFY EXISTING WASTE, VENT AND POTABLE WATER PIPING AS REQUIRED FOR CONNECTION TO NEW FIXTURE. REUSE EXISTING PIPING IF POSSIBLE. PATCH FLOOR SLAB AND/OR WALL PENETRATIONS AS NECESSARY. FIELD VERIFY EXISTING CONDITIONS. 2 - RESTORE AND REPAIR EXISTING FIXTURE AS NECESSARY.

- PUBLIC WORKS PLUMBING NOTES:
- 1 DEMOLISH AND REMOVE EXISTING FIXTURE AND INSTALL NEW. MODIFY EXISTING WASTE, VENT AND POTABLE WATER PIPING AS REQUIRED FOR CONNECTION TO NEW FIXTURE. REUSE EXISTING PIPING IF POSSIBLE. PATCH FLOOR SLAB AND/OR WALL PENETRATIONS AS NECESSARY. FIELD VERIFY EXISTING CONDITIONS.





DETENTION CENTER

- PLUMBING NOTES:
- OEMOLISH AND REMOVE EXISTING 2" ROOF DRAIN. CAP AND ABANDON ASSOCIATED ROOF DRAIN PIPING ABOVE CEILING. PROVIDE AND INSTALL NEW 4" ROOF DRAIN AND ASSOCIATED ROOF DRAIN PIPING AS INDICATED.
- 2 CONTRACTOR SHALL DOCUMENT EXISTING (AS-BUILT) NATURAL GAS PIPING SYSTEM, INCLUDING BUT NOT LIMITED TO PIPE ROUTING, PIPE SIZING, VALVE LOCATIONS AND EQUIPMENT CONNECTIONS, PRIOR TO PIPING SYSTEM DEMOLITION. AFTER EXISTING SYSTEM DOCUMENTATION IS COMPLETE, DEMOLISH AND REMOVE EXISTING NATURAL GAS PIPING SYSTEM TO EXTENT NECESSARY FOR ROOF REPLACEMENT WORK.
 - AFTER ROOF REPLACEMENT WORK IS COMPLETE, CONTRACTOR SHALL PROVIDE AND INSTALL NEW NATURAL GAS PIPING SYSTEM ON ROOF TO MATCH EXISTING.

EXISTING GAS PIPING (TYPICAL) (2)

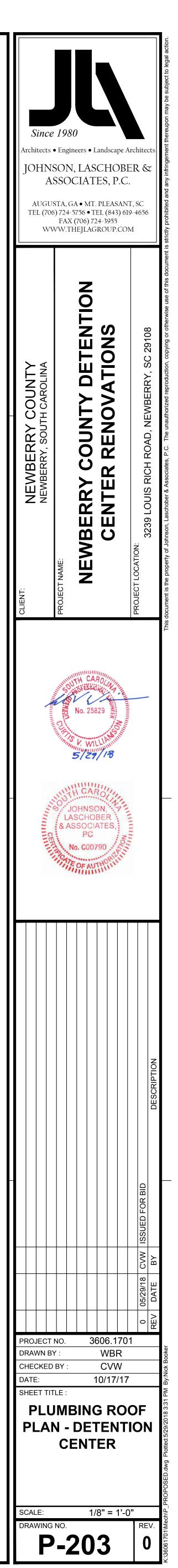
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16 SCALE: 1/8" = 1'-0"

EXISTING GAS PIPING DOWN THRU ROOF —

— EXISTING ROOF DRAIN





P-1 P-2
P-1
P-1
P-2
P-3
P-4
P-5
P-6
P-7
P-8
P-9
P-10
P-11
P-12
P-13
P-14
P-15
P-16
P-17
PMP-1
GWH-1
EWH-1
EWH-2
NOTES:

FIXTURE	NC NC	om. Pipe	E, INCHE	S	
FIATURE	CW	HW	W	V	DESCRIPTION
TAFF ALL-HUNG VATORY (H.C.)	1/2"	1/2"	2"	1 1/2"	AMERICAN STANDARD 0355.012 ACCESSIBLE LAVATORY, AMERICAN STANDARD 7385.050 FAUCET, GRID DRAIN, ANGLE STOPS, & 3/8" SUPPLIES, PLUMBEREX HANDY-SHIELD MODEL 2003
FAFF ALL-HUNG VATORY	1/2"	1/2"	2"	1 1/2"	AMERICAN STANDARD 0355.012 LAVATORY, AMERICAN STANDARD 7385.050 FAUCET, GRID DRAIN, ANGLE STOPS, & 3/8" SUPPLIES
TAFF ATER CLOSET (H.C.)	1/2"	-	4"	2"	AMERICAN STANDARD CADET PRO 215AB.104, 1.28 GAL. FLUSH w/ CHURCH 295CT TOILET SEAT. MOUNT FLUSH OPERATOR ON WIDE SIDE OF TOILET.
TAFF ATER CLOSET	1/2"	-	4"	2"	AMERICAN STANDARD CADET PRO 215CB.104, 1.28 GAL. FLUSH w/ CHURCH 295CT TOILET SEAT.
ATER CLOSET	1"	-	4"	2"	AMERICAN STANDARD 3451.001 TOILET w/ CHURCH 295CT & SLOAN ROYAL 111 FLUSH VALVE, 1.6 GAL. FLUSH CYCLE
RINAL	3/4"	-	2"	2"	AMERICAN STANDARD MODEL ALLBROOK 0.5 6550.001 w/ SLOAN REGAL 186-0.5 3/4" FLUSH VALVE
AFF DUBLE BOWL SINK	1/2"	1/2"	2"	1 1/2"	JUST DLX-1933-A-GR SINK 19"x33"x10.5" (4 HOLE), #J-35 STRAINERS, AMERICAN STANDARD 4175.501.F15 FAUCET, SUPPLIES, STOP VALVES, AND TRAP
AFF SHOWER	1/2"	1/2"	2"	2"	KOHLER K-1689 SONATA SHOWER STALL w/ KOHLER K-9132 SHOWER DRAIN, KOHLER K-1665 SHOWER LIGHT KOHLER K-702416-L SHOWER DOOR, AND SYMMONS TEMPTROL C-96-1-X
RVICE SINK	1/2"	1/2"	3"	2"	AMERICAN STANDARD MODEL LAKEWELL 7692.008 SERVICE SIN w/ AMERICAN STANDARD 8351.076 FAUCET AND 7798.030 TRAP
MATE SHOWER PANEL	-	1/2"	-	-	WILLOUGHBY MODEL №. WRS-PML1-PPB-2.5 GPM-NPS-TMV-RD (8" CMU WALL APPLICATION) REAR MOUNTED RECESSED SHOWER PANEL
MATE COMBINATION IIT (CENTERED)	1 1/2"	1/2"	4"	2"	WILLOUGHBY MODEL No. ECW-1846-C-ON-BP-1.6 GPF-PML2-PPB- PT-OV-TWE-TW5-PC3-TWC4C-FV-FVT-RTHC-WS (8" CMU WALL APPLICATION) PROVIDE SLOAN REGAL MODEL No. 9603-1.6 HYDRAULIC FLUSHOMETER
MATE COMBINATION IIT (90° - LEFT - ADA)	1 1/2"	1/2"	4"	2"	WILLOUGHBY MODEL No. ECW-3696-L-ON-BP-1.6 GPF-PML2-PPB- PT-OV-TWE-TW5-PC3-TWC4C-FV-FVT-WS (8" CMU WALL APPLICATION) PROVIDE SLOAN REGAL MODEL No. 9603-1.6 HYDRAULIC FLUSHOMETER
MATE COMBINATION IIT (90° - RIGHT - ADA)	1 1/2"	1/2"	4"	2"	WILLOUGHBY MODEL No. ECW-3696-R-ON-BP-1.6 GPF-PML2-PPB- PT-OV-TWE-TW5-PC3-TWC4C-FV-FVT-WS (8" CMU WALL APPLICATION) PROVIDE SLOAN REGAL MODEL No. 9603-1.6 HYDRAULIC FLUSHOMETER
(AM SINK	1/2"	1/2"	2"	1 1/2"	JUST SLX-1815-A-GR SINK 18"x15"x9" (3 HOLE), AMERICAN STANDARD 6540.178 FAUCET, ANGLE STOPS, & 3/8" SUPPLIES
MATE SHOWER NEL (ADA)	1 1/2"	1/2"	4"	2"	WILLOUGHBY MODEL No. WRS-BF-2HD-PML1-MA2-PPB- 2.5 GPM-NPS-TMV-RD (8" CMU WALL APPLICATION) REAR MOUNTED RECESSED HANDICAP SHOWER PANEL w/ (2) FIXED SHOWER HEADS.
MATE COMBINATION IIT (CENTERED)	1 1/2"	1/2"	4"	2"	WILLOUGHBY MODEL No. ECW-1846-C-ON-BP-1.6 GPF-PML2-PPB- PT-OV-CW2-TWE-TW5-PC3-TWC4C-FV-FVT-RTHC-WS (8" CMU WALL APPLICATION) PROVIDE SLOAN REGAL MODEL No. 9603-1.6 HYDRAULIC FLUSHOMETER
DUNTERTOP VATORY	1/2"	1/2"	2"	1 1/2"	JUST OLF-17521-18GA. LAVATORY, AMERICAN STANDARD 1340.827 METERING FAUCET, GRID DRAIN, ANGLE STOPS, & 3/8" SUPPLIES
CIRCULATION PUMP	-	3/4"	-	-	BELL & GOSSETT MODEL NBF-22 w/ TIMECLOCK 120V/1Ø/60Hz (7 GPM @ 10 FOOT HEAD)
AS WATER HEATER	1 1/2"	1 1/2"	-	-	A.O. SMITH MODEL BT-80, 74 GALLON CAP. 75,100 BTU/HR INPUT, NATURAL GAS, 120/1/60, RECOVERY RATE OF 73 GPH AT A 100° F TEMP. RISE
EC. WATER HEATER	3/4"	3/4"	-	-	A.O. SMITH MODEL DEN-40, 40 GALLON CAP. NON-SIMULTANEOUS 4500W, 240/1Ø/60 RECOVERY RATE OF 18 GPH AT A 100° F TEMP. RISE
EC. WATER HEATER	1/2"	1/2"	-	-	STIEBEL ELTRON MODEL DHC 10-2 TANKLESS WATER HEATER - 7.2 kW, 208/1Ø/60

. ALL FIXTURES, FITTINGS, AN
ACT; WHERE APPLICABLE.

SUPPORT URINALS w/ WALL HANGERS AND THRU BOLTS.

RIM HEIGHT SHALL COMPLY w/ ADA REQUIREMENTS AND STANDARD MANUFACTURER RECOMMENDED INSTALLATION HEIGHTS FOR NON-ADA FIXTURES.

PLUMBING CONTRACTOR TO COORDINATE w/ COUNTER TOP CONTRACTOR BEFORE ORDERING SINKS.

	F
SYN	/IBOL
FD	
GC	0
FCC	C
WC	0
FS	
RD	
	FL
	PROVII BASED

3

FLOOR DRAIN & CLEANOUT SCHEDULE					
BOL	J.R. SMITH SERIES NO.	PROVIDE		NOTES	
	2010-B-U	12			
	4237				
	4040-U				
)	4452-U				
	3003	2			
	1015-R-C				
FLOOR DRAIN & CLEANOUT ACCESSORIES					
ROVIDE MANUFAC. RECOMMENDED STRAINER SIZE 2 PROSET TRAP ASED ON OUTLET SIZE 2 GUARD INSERT					

NOTES:

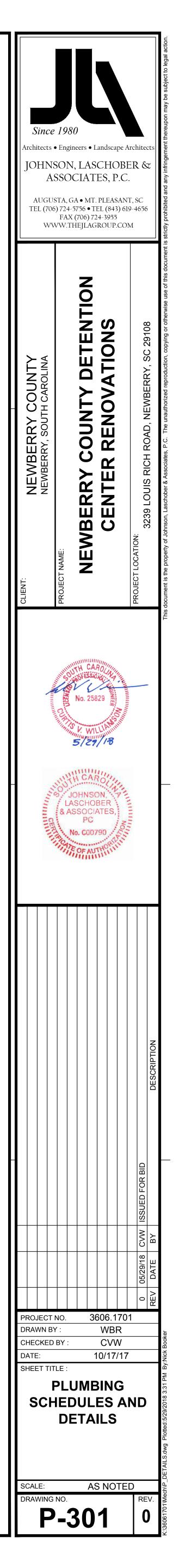
1. PROVIDE PROSET "T-RITE" DRAINS ON ALL FLOOR/SHOWER/HUB DRAINS THAT ARE THROUGH PENETRATION OF A FIRE RATED FLOOR.

2. COORDINATE FLOOR FINISHES w/ FLOOR DRAINS AND FLOOR CLEANOUTS. (ADJUST FLOOR DRAIN AND FLOOR CLEANOUT ELEVATIONS AS REQUIRED)

HANGERS & SUPPORTS					
SPACING: DC	NOT EXCEED TH	HE FOLLOW	ING SPACI	NG, ON CENTERS	
PIPE SIZE SCH. 40 PVC COPPER STEEL HANGER ROD					
1/2" - 3/4"	4 FT.	5 FT.	7 FT.	1/4"	
1"	4 FT.	6 FT.	7 FT.	1/4"	
1 1/2"	4 FT.	6 FT.	9 FT.	3/8"	
2"	4 FT.	8 FT.	10 FT.	3/8"	
2 1/2"	4 FT.	9 FT.	11 FT.	3/8"	
3"	4 FT.	10 FT.	12 FT.	3/8"	
4"	4 FT.	10 FT.	12 FT.	1/2"	

WATER HAMMER ARRESTER SCHEDULE			
SYMBOL	FIXTURE UNIT RATING		
PDI "A"	1-11		
PDI "B"	12-32		
PDI "C"	33-60		
PDI "D"	61-113		
PDI "E"	114-154		
PDI "F"	155-330		

NOTE: USE METAL-BELLOWS TYPE WITH PRESSURIZED METAL CUSHIONING CHAMBER, COMPLYING WITH STANDARD P.D.I. WH-201.



HVAC GENERAL NOTES:

THESE GENERAL NOTES PRESENT AND/OR SUMMARIZE KEY PRODUCT INFORMATION FOR THE PLAN READER'S CONVENIENCE. SEE PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.

WORK COVERED BY THIS DOCUMENT SHALL INCLUDE ALL LABOR, MATERIAL, PRODUCTS, AND SERVICES FOR, AND INCIDENTAL TO, INSTALLATION OF COMPLETE AND OPERATING HVAC SYSTEMS DRAWN OR SPECIFIED.

ALL WORK SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES INCLUDING, BUT NOT LIMITED TO, NFPA 13, NFPA 90A, NFPA 90B, NFPA 96, 2017 NATIONAL ELECTRICAL CODE, AND 2015 INTERNATIONAL MECHANICAL CODE w/ AMENDMENTS. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ARCHITECT OR ENGINEER.

INSTALL ALL MECHANICAL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS. ARRANGEMENTS OF MECHANICAL WORK SHALL BE AS SHOWN. DRAWINGS ARE NOT INTENDED TO INDICATE ALL OFFSETS AND FITTINGS. EXAMINE ALL DRAWINGS,

INVESTIGATE CONDITIONS TO BE ENCOUNTERED AND ARRANGE WORK ACCORDINGLY; FURNISH AND INSTALL ALL FITTINGS AND OFFSETS. DRAWINGS ARE NOT INTENDED TO SHOW IN DETAIL EXACT LOCATIONS AND

CONNECTIONS FOR EQUIPMENT AND ACCESSORIES. FINAL CONNECTIONS SHALL BE AS SHOWN ON APPROVED SHOP DRAWINGS.

MEASUREMENT OF DRAWINGS BY SCALE SHALL NOT BE USED AS DIMENSIONS FOR FABRICATION. MEASUREMENTS FOR LOCATING EQUIPMENT, DUCTWORK, PIPING AND ACCESSORIES SHALL BE MADE ON THE JOB SITE AND SHALL BE BASED ON ACTUAL JOB CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEASUREMENTS. WHERE THE CONTRACTOR PREFABRICATES ANY WORK BASED ON THE DRAWINGS WITHOUT VERIFYING ACTUAL JOB CONDITIONS, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INVOLVED IN MAKING CHANGES TO PREFABRICATED WORK WHERE CONFLICTS OCCUR.

THE CONTRACTOR SHALL CHECK CEILING HEIGHTS IN EACH SPACE ON ARCHITECTURAL DRAWINGS AND SHALL ARRANGE ALL MECHANICAL WORK TO FIT IN THE SPACE ABOVE THE CEILING ALLOWING FOR ACCESS TO REMOVE TILE. PARTICULAR ATTENTION SHALL BE DIRECTED TOWARD DUCT SIZES AS SHOWN ON DRAWINGS, TO VERIFY THAT DUCTWORK ALONG WITH ALL OTHER WORK WILL FIT IN THE SPACE ABOVE THE CEILINGS. AFTER VERIFYING DIMENSIONS, IF THE CONTRACTOR DETERMINES THAT THE WORK WILL NOT FIT IN THE SPACE INDICATED, THEN THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF THE CONFLICT AND SHALL NOT INSTALL ANY WORK UNTIL INSTRUCTIONS ARE RECEIVED FROM THE ARCHITECT/ENGINEER. IF THE CONTRACTOR INSTALLS WORK AS SHOWN ON DRAWINGS WITHOUT VERIFYING ADEQUACY OF SPACES, AND THE WORK DOES NOT FIT THE SPACE SHOWN, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR REARRANGING WORK AND CHANGING DUCT SIZES AS REQUIRED TO FIT THE SPACE AND THE CONTRACTOR SHALL PAY ALL COSTS CONNECTED WITH THE CHANGES.

CONTRACTOR SHALL INSTALL DUCTS, PIPING AND EQUIPMENT IN A NEAT AND WORKMANLIKE MANNER AND SHALL AVOID CONFLICT WITH OTHER WORK. EQUIPMENT SHALL BE SO ARRANGED AND FITTED INTO AVAILABLE SPACE SO THAT WORKING PARTS INCLUDING FILTERS AND LUBRICATION POINTS, AND COIL REMOVAL ARE ACCESSIBLE FOR SERVICE WITHOUT DAMAGE TO BUILDING STRUCTURE OR FINISHES OR WITHOUT MOVING OTHER EQUIPMENT. THE CONTRACTOR SHALL NOT INSTALL ANY EQUIPMENT WHERE PARTS ARE INACCESSIBLE FOR SERVICE.

WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT TO PROVIDE MAXIMUM HEADROOM POSSIBLE.

EXACT LOCATION OF GRILLES & CEILING OUTLETS SHALL BE DETERMINED ON THE JOB. COORDINATE WITH LIGHTS AND ARCHITECTURAL REQUIREMENTS TO PROVIDE A UNIFORM & SYMMETRICAL APPEARANCE. REFER TO ARCHITECTURAL & ELECTRICAL DRAWINGS & DETAILS.

CUTTING AND REPAIRING: THE HVAC CONTRACTOR SHALL DO ALL CUTTING AND REPAIRING OF WALLS, FLOORS, CEILINGS, ETC. NECESSARY FOR THE INSTALLATION OF THE WORK BUT HE SHALL NOT CUT INTO ANY STRUCTURAL MEMBER WITHOUT THE PERMISSION OF THE ARCHITECT.

PROVIDE UNION OR FLANGE CONNECTIONS IN PIPING AT ALL EQUIPMENT & AS REQUIRED FOR SERVICE.

GENERAL CONTRACTOR TO PROVIDE ACCESS PANELS FOR ALL INACCESSIBLE, ABOVE CEILING DAMPERS AND EQUIPMENT. COORDINATE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

<u>METAL DUCT:</u> ALL DUCTWORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH SMACNA, NFPA BULLETIN 90A, AND ASHRAE GUIDES. UNLESS OTHERWISE NOTED, DUCTWORK SHALL BE GALVANIZED SHEET STEEL. FIBERGLASS DUCTWORK IS NOT ACCEPTABLE. ALL EXPOSED SUPPLY AND RETURN DUCTWORK SHALL BE RECTANGULAR GALVANIZED LINED DUCT WITH PAINT GRIP PRIMER OR DOUBLE WALL INSULATED

SPIRAL DUCT WITH PAINT GRIP PRIMER, U.N.O.. MINIMUM DUCTWORK STATIC PRESSURE CLASS SHALL BE 2-INCH W.G. MINIMUM DUCT SEAL CLASS SHALL BE CLASS "A".

ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. ON RECTANGULAR DUCTS, DIMENSIONS GIVEN FIRST IS DIMENSION SEEN. DUCT DIMENSIONS MAY BE ALTERED AS LONG AS SAME DUCT CROSS SECTIONAL AREA IS MAINTAINED, IN ORDER TO AVOID INTERFERENCES AS NEEDED.

LOW PRESSURE FLEXIBLE DUCT: FACTORY FABRICATED ASSEMBLY, UL-181, CLASS 1 LISTED, HAVING A MINIMUM R-VALUE OF 4.2, EQUAL TO THERMAFLEX "KM". CONNECT DIFFUSERS TO DUCTS WITH MAXIMUM 60-INCH LENGTHS OF FLEXIBLE DUCT CLAMPED OR STRAPPED IN PLACE.

MANUAL VOLUME DAMPERS: DAMPERS SHALL BE SAME MATERIAL AS DUCTWORK, PER SMACNA. PROVIDE AXLES FULL LENGTH OF DAMPER BLADES AND BEARINGS AT BOTH ENDS OF OPERATING SHAFT. PROVIDE MANUAL VOLUME DAMPERS IN ALL BRANCH DUCTS (ONE PER SUPPLY AND RETURN OUTLET).

FLEXIBLE CONNECTIONS: GLASS FABRIC DOUBLE COATED WITH NEOPRENE, 26 OZ. PER SQUARE YARD, COMPLYING WITH UL 181, CLASS 1. PROVIDE FLEXIBLE CONNECTION BETWEEN ALL EQUIPMENT AND RIGID DUCTWORK. FABRIC CONNECTIONS SHALL BE AT LEAST 3.5 INCHES WIDE AND HAVE A METAL-EDGED CONNECTOR AT EACH END. PROVIDE METAL COMPATIBLE WITH CONNECTED DUCTS.

TURNING VANES: GALVANIZED STEEL, COMPLYING WITH SMACNA. VANES SHALL BE SINGLE WALL FOR DUCTS UP TO 48 INCHES WIDE AND DOUBLE WALL FOR LARGER DIMENSIONS. ALL 90 DEGREE SQUARE ELBOWS AND TEES SHALL HAVE TURNING VANES (SUPPLY & RETURN DUCT).

DUCT INSULATION ALL CONCEALED SUPPLY AND RETURN DUCTS SHALL BE INSULATED WITH 2.2 INCH THICK MINERAL-FIBER BLANKET INSULATION, ASTM C533 TYPE II AND ASTM C1290 TYPE III, WITH FACTORY-APPLIED FSK JACKET AND 3/4 LB. NOMINAL DENSITY, EQUAL TO CERTAINTEED "SOFTTOUCH DUCT WRAP".

ALL OUTDOOR SUPPLY AND RETURN DUCTS SHALL BE INSULATED WITH 1.5 INCH THICK MINERAL-FIBER BOARD INSULATION, ASTM C612 TYPE IA OR TYPE IB, WITH FACTORY-APPLIED FSK JACKET AND 2 LB. NOMINAL DENSITY, EQUAL TO CERTAINTEED "CERTAPRO COMMERCIAL BOARD". INSTALL FIELD-APPLIED ALUMINUM JACKET, 0.0020 INCH THICK, OVER INSULATION MATERIAL ON ALL OUTDOOR SUPPLY AND RETURN DUCTS.

DUCT LINER (NON-ACOUSTIC) SHALL BE 1 INCH THICK FLEXIBLE CLOSED-CELL ELASTOMERIC DUCT LINER, COMPLYING WITH ASTM C534 TYPE II AND NFPA 90A OR NFPA 90B, EQUAL TO ARMACELL "AP ARMAFLEX".

ACOUSTIC DUCT LINER SHALL BE 1 INCH THICK FLEXIBLE CLOSED-CELL ELASTOMERIC DUCT LINER, COMPLYING WITH ASTM C534 TYPE II AND NFPA 90A OR NFPA 90B, EQUAL TO ARMACELL "AP COILFLEX".

REFRIGERANT PIPINO PROVIDE AND INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN SUCH A WAY AS TO BE INCONSPICUOUS AND FREE FROM ANY POSSIBLE CONDENSATION.

REFRIGERANT PIPING SHALL BE COPPER, TYPE ACR, ANNEALED-TEMPER TUBING AND WROUGHT-COPPER FITTINGS WITH SOLDERED JOINTS SUITABLE FOR CONNECTION WITH SILVER SOLDER.

INCH THICK FLEXIBLE CLOSED-CELL ELASTOMERIC INSULATION, EQUAL TO ARMACELL "AP ARMAFLEX".

ALL OUTDOOR REFRIGERANT SUCTION AND HOT GAS PIPING SHALL BE INSULATED WITH 2 INCH THICK FLEXIBLE CLOSED-CELL ELASTOMERIC INSULATION, EQUAL TO ARMACELL "AP ARMAFLEX".

CONDENSATE DRAIN PIPING: ALL CONDENSATE DRAIN PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS, CONFORMING TO ASTM D 1785, ASTM D 2466, AND ASTM 2564.

ALL INDOOR REFRIGERANT SUCTION AND HOT GAS PIPING SHALL BE INSULATED WITH 1

PROVIDE AND INSTALL CONTROL WIRING AND 7-DAY PROGRAMMABLE THERMOSTATS AS REQUIRED UNLESS OTHERWISE SPECIFIED. MOUNT THERMOSTATS 4'-0" A.F.F.

ELECTRICAL ALL EQUIPMENT FURNISHED UNDER THIS DIVISION SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE REQUIREMENTS OF DIVISION 26. ALL POWER WIRING AND FINAL POWER CONNECTIONS TO THE SYSTEM SHALL BE PROVIDED UNDER DIVISION 26. CONTROL WIRING (120V AND LESS) SHALL BE PROVIDED UNDER DIVISION 23 AND EXTEND FROM THE INDICATED 120V POWER CIRCUIT INDICATED ON THE ELECTRICAL DRAWINGS. ALL ELECTRICAL CHARACTERISTICS SHALL BE TAKEN FROM THE ELECTRICAL DRAWINGS AND SPECIFICATIONS AND COORDINATED PRIOR TO ORDERING THE EQUIPMENT. ALL WIRING IN THE CEILING PLENUM SHALL BE PLENUM-RATED CABLE OR INSTALLED IN CONDUIT.

MOTORS AND STARTERS PROVIDE MOTORS, STARTERS, VARIABLE FREQUENCY DRIVES, PUSH BUTTONS, THERMAL OVERLOAD SWITCHES, AND CONTACTORS FOR EQUIPMENT COVERED HEREIN UNLESS OTHERWISE SPECIFIED. INSTALLATION OF STARTERS, PUSH BUTTONS, THERMAL OVERLOAD SWITCHES, AND CONTACTORS (NOT FACTORY INSTALLED) IS SPECIFIED UNDER DIVISION 26.

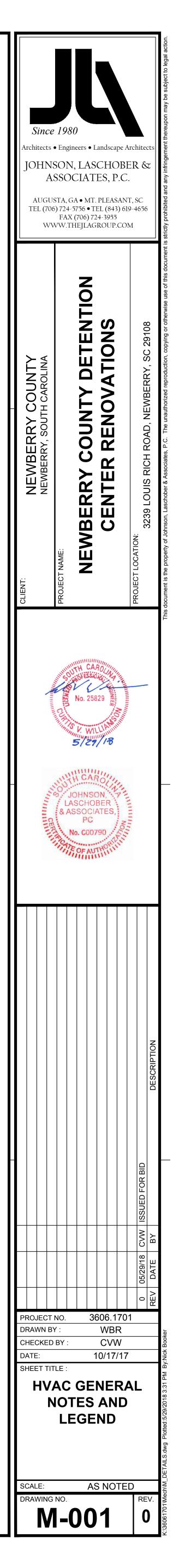
CLEANING AND ADJUSTING: CLEAN ALL GREASE, OIL, PAINT, AND OTHER CONSTRUCTION DEBRIS FROM THE EXTERIOR SURFACES OF ALL MECHANICAL EQUIPMENT, PIPING, AND DUCTS. CLEAN ALL DUCTS, PLENUMS, AND CASINGS OF DEBRIS AND BLOWN FREE OF ALL PARTICLES OF RUBBISH AND DUST PRIOR TO INSTALLATION OF OUTLET FACES.

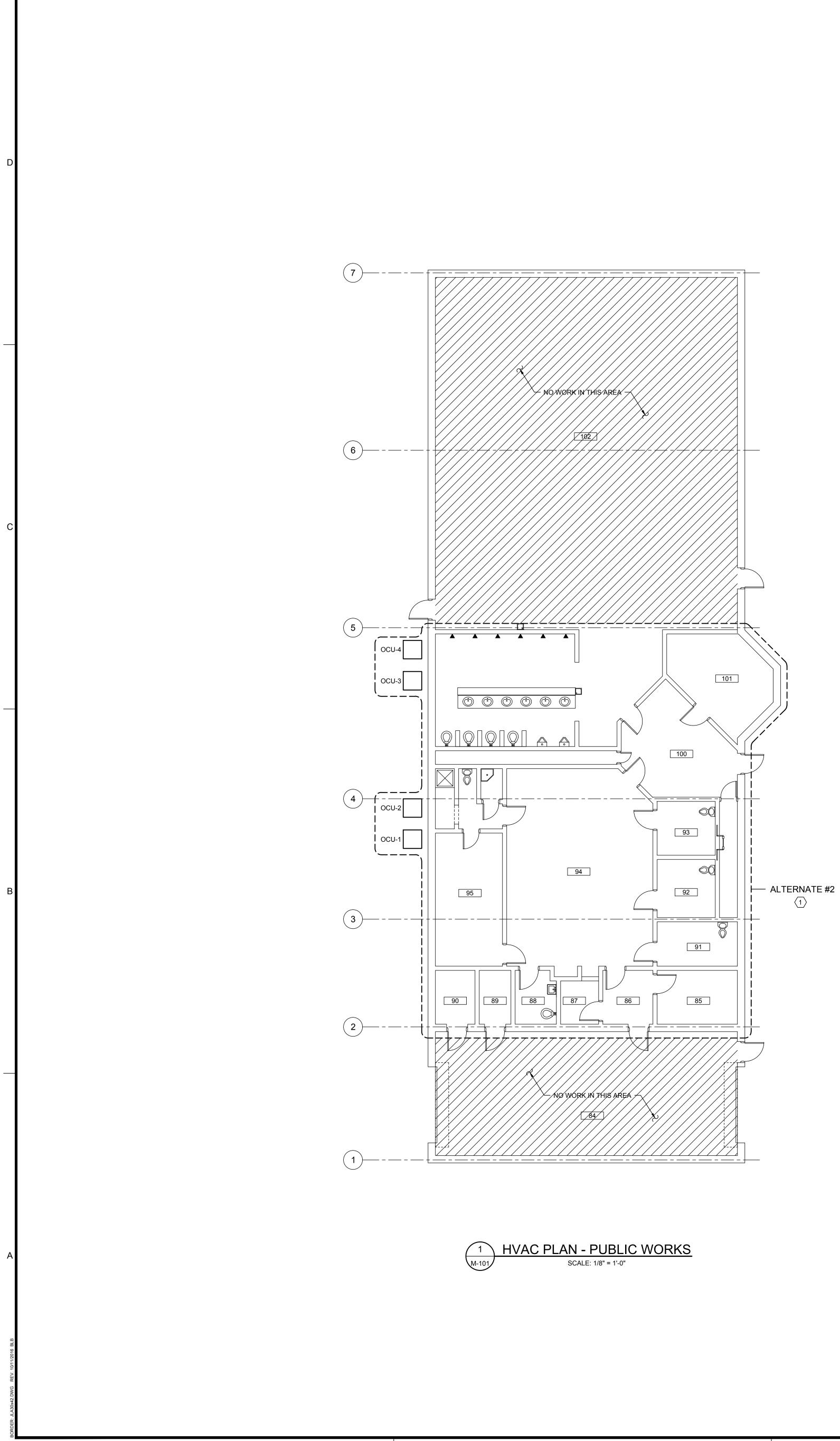
BEARINGS THAT REQUIRE LUBRICATION SHALL BE LUBRICATED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL CONTROL EQUIPMENT SHALL BE ADJUSTED TO THE SETTINGS INDICATED OR REQUIRED FOR PERFORMANCE AS SPECIFIED. REMOVE ALL STICKERS, RUST, STAINS, LABELS, AND TEMPORARY COVERS BEFORE FINAL ACCEPTANCE. REMOVE FOREIGN MATTER FROM EQUIPMENT, PIPING AND DUCTWORK SYSTEMS AND APPURTENANCES. CLEAN AND POLISH IDENTIFICATION PLATES.

REMOVE ALL TRASH AND DEBRIS FROM THE JOBSITE ON A DAILY BASIS.

TESTING, ADJUSTING, AND BALANCING: ALL WORK SHALL BE TESTED AND BALANCED BY AN INDEPENDANT CERTIFIED TAB SPECIALIST. TAB SPECIALIST SHALL BE CERTIFIED BY AABC, NEBB, OR TABB.

SUBMIT FINAL TEST AND BALANCE REPORT FOR REVIEW AND APPROVAL PRIOR TO TURN-OVER OF FINAL PROJECT.



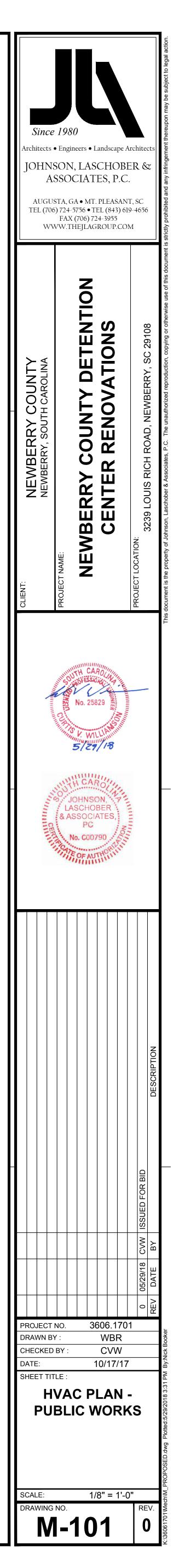


ALTERNATE #2
PUBLIC WORKS
HVAC NOTES:

- DEMOLISH AND REMOVE FOUR (4) EXISTING OUTDOOR CONDENSING UNITS AND ASSOCIATED INDOOR GAS FURNACES AND COOLING COILS, AND REPLACE IN KIND. INDOOR UNITS ARE	D
LOCATED ON MECHANICAL MEZZANINE. FIELD VERIFY EXISTING CONDITIONS. SEE EQUIPMENT SCHEDULES ON THIS SHEET FOR BASIS OF DESIGN REPLACEMENT EQUIPMENT.	

OUTDOOR CONDENSING UNIT SCHEDULE (ALTERNATE #2)											
	BASIS OF DESI	GN	COOLING MBH		REFRIG. O.D.		EER/	ELECTRICAL		NOTES	
MARK	MANUFACTURER	MODEL NO.					SEER				
			TOTAL	SENSIBLE	LIQUID	SUCTION	MIN. MCA	MOCP	V/Ø/Hz		
OCU-1	TRANE	4TTR4036L	34.9	26.1	3/8	7/8	15.0	18.0	30	208/1/60	
OCU-2	TRANE	4TTR4036L	34.9	26.1	3/8	7/8	15.0	18.0	30	208/1/60	
OCU-3	TRANE	4TTR4048L	48.6	37.1	3/8	7/8	14.5	24.0	40	208/1/60	
OCU-4	TRANE	4TTR4048L	48.6	37.1	3/8	7/8	14.5	24.0	40	208/1/60	

INDOOR FURNACE/COOLING COIL UNIT SCHEDULE (ALTERNATE #2)											
	BASIS OF DESIGN					HEATING		ELECTRICAL			
MARK	MANUFACTURER	FURNACE MODEL (COOLING COIL MODEL	NOM. CFM	E.S.P. "W.C.	INPUT MBH	AFUE	(SINC	GLE POINT CONN.)		NOTES
							%	MCA	MOCP	V/Ø/Hz	
IFC-1	TRANE	TUD1B100	4TXCB04D	1200	0.5	100	80	12.3	15	115/1/60	123
IFC-2	TRANE	TUD1B100	4TXCB04D	1200	0.5	100	80	12.3	15	115/1/60	123
IFC-3	TRANE	TUD1C100	4TXCC07D	1600	0.5	100	80	15.4	20	115/1/60	123
IFC-4	TRANE	TUD1C100	4TXCC07D	1600	0.5	100	80	15.4	20	115/1/60	123
<u> </u>	① FIELD ROUTE CONDENSATE TO ② FIELD ROUTE REFRIGERANT PIPING ③ REPLACE EXISTING THERMOSTAT WITH EXISTING FLOOR DRAIN TO CORRESPONDING OCU U.N.O. NEW 7-DAY PROGRAMMABLE THERMOSTAT										



<u>GENERAL</u> THESE GENERAL NOTES PRESENT AND/OR SUMMARIZE KEY PRODUCT INFORMATION FOR THE PLAN READER'S CONVENIENCE. SEE PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.	CONDUCTORS INSULATION SHALL (BE CONCENTRIC STI
WORK COVERED BY THIS DOCUMENT SHALL INCLUDE ALL LABOR, MATERIAL, PRODUCTS, AND SERVICES FOR, AND INCIDENTAL TO, INSTALLATION OF COMPLETE AND OPERATING ELECTRICAL SYSTEMS DRAWN OR SPECIFIED.	TYPE AND INSULATION TYPE AND INSULATION TYPE AND INSULATION CC
ALL WORK SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES	COLOR CODING (120
INCLUDING, BUT NOT LIMITED TO, THE NATIONAL ELECTRICAL CODE (NFPA 70-2014). ALL MATERIALS SHALL BE NEW AND UL LISTED/LABELED AS APPROPRIATE. FINAL LOCATIONS FOR ROUGH-INS SHALL BE VERIFIED WITH ACTUAL EQUIPMENT BEING CONNECTED. SUPPORT AND ATTACH ELECTRICAL EQUIPMENT IN ACCORDANCE WITH SEISMIC CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER/BUILDING DESIGNER AND THE INTERNATIONAL BUILDING CODE 2015. AFTER COMPLETING INSTALLATION, REMOVE BURRS, DIRT, AND CONSTRUCTION DEBRIS FROM ALL ELECTRICAL WORK.	<u>RACEWAYS</u> CONDUIT BODIES AN TYPE. CONDUIT FITT TYPE. INSTALL 200 I APPLY FIRESTOPPIN ASSEMBLIES TO RES
COORDINATE OUTLET LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.	OUTDOORS EXPOSE OUTDOORS UNDER(
COORDINATE HVAC AND PLUMBING EQUIPMENT LOCATIONS WITH MECHANICAL PLANS, ELEVATIONS AND DETAILS.	CONFORMING TO NE OUTDOORS CONNEC FLEXIBLE METAL CO
COORDINATE SITE LIGHTING AND SITE UTILITIES WITH LANDSCAPING/CIVIL PLANS AND DETAILS.	INDOORS CONCEALI INDOORS EXPOSED: INDOORS CONNECT
ALL SIGNAL RACEWAYS SHALL BE 3/4" DIA. MIN. UNLESS OTHERWISE NOTED.	CONDUIT CONFORM
COORDINATE ELECTRICAL SERVICE AND METERING REQUIREMENTS WITH SERVING UTILITY PRIOR TO BID AND INSTALLATION.	OUTLET BOXES BOXES SHALL COMF PLASTER RING IN DF
COORDINATE SIGNAL SERVICE REQUIREMENTS WITH SERVING UTILITY.	CAST METAL TYPE F
ELECTRICAL INSTALLATION SHALL BE SEISMIC BRACED PER APPLICABLE SECTIONS OF THE STANDARD BUILDING CODE.	PULL AND JUNCTION BOXES SHALL BE HO TYPE WITH SCREWE
CONSULT MANUFACTURERS' SHOP DRAWINGS FOR REQUIREMENTS AND EXACT LOCATION OF ELECTRICAL CONNECTIONS FOR EQUIPMENT FURNISHED BY OTHERS. BRANCH-CIRCUIT WIRING SHALL MEET ALL REQUIREMENTS OF THE EQUIPMENT MANUFACTURER.	WIRING DEVICES DEVICES SHALL COI SPECIFICATION GRA DEVICES SHALL BE GROUNDING TERMII
SIZE DISCONNECT SWITCHES AND OVERCURRENT PROTECTION IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS' RECOMMENDATIONS AND THE N.E.C.	RATED 20 AMPERES FEED-THROUGH TY LOCATIONS. PROGF
SIZE FUSES IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS' RECOMMENDATIONS AND THE N.E.C.	SENSITIVITY. TRAIN
INSTALL JUNCTION BOXES, CONDUIT BODIES, AND HANDHOLE ENCLOSURES SUCH THAT WIRING WITHIN IS ACCESSIBLE IN ACCORDANCE WITH NEC 314.29.	DEVICE COLOR: SE DEVICE COVER: SM
MOUNTING HEIGHT DIMENSIONS FOR WIRING DEVICES ARE FROM THE FINISHED FLOOR UP TO THE CENTER OF THE OUTLET BOX.	ELECTRICAL IDENTI IN ADDITION TO COL ENCLOSURES, TRAN
CENTER OUTLETS HORIZONTALLY IN ARCHITECTURAL FEATURES.	AN ENGRAVED PLAS
DO NOT SCALE DRAWINGS. DEVICE LOCATIONS ARE APPROXIMATE UNLESS DIMENSIONED. ACTUAL DEVICE LOCATIONS SHALL BE FIELD COORDINATED WITH ALL OTHER TRADES AND APPLICABLE CODES.	EQUIPMENT WITH S COORDINATE WITH CURRENT AT THE P PROVIDE ELECTRIC
INSTALL PHOTO CELL(S) ABOVE ROOF. ORIENT TO NORTHERN EXPOSURE AND SHIELD FROM EXTRANEOUS LIGHT. PROVIDE FLASHING AND SEAL ROOF PENETRATION(S).	CURRENT. CALCULA ELECTRICAL EQUIPI LABELS ON ALL ELE
INSTALL ADDITIONAL BRANCH-CIRCUIT CONDUCTORS TO PROVIDE UN-SWITCHED CONNECTION TO EACH EMERGENCY FIXTURE BATTERY.	CENTERS, LOAD CE NEC ARTICLE 110.16
DO NOT USE COMMON NEUTRALS FOR MULTI-WIRE CIRCUITS. INSTALL A NEUTRAL FOR EACH PHASE.	<u>GROUNDING</u> GROUNDING AND BO EQUIPMENT-GROUN
ALL CONDUCTORS SHALL BE NO SMALLER THAN #12.	FOR ALL FEEDER AN USED FOR ATTACHN
GENERAL CONTRACTOR TO PROVIDE ACCESS PANELS FOR ALL INACCESSIBLE, ABOVE-CEILING ELECTRICAL EQUIPMENT AND JUNCTION BOXES PER 2014 NEC SECTION 314.29. COORDINATE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.	GROUNDING ELECT

TION SHALL COMPLY WITH NEMA WC 5. CONDUCTORS #8 AWG AND LARGER SHALL NCENTRIC STRANDED. CONDUCTORS #10 AND SMALLER SHALL BE SOLID. AND INSULATION (SERVICE): COPPER, TYPE THWN AND INSULATION (FEEDER): COPPER, TYPE THHN/THWN AND INSULATION (BRANCH): COPPER, TYPE THHN/THWN

R CODING (120/240 V, 1Ø): A-BLACK, B-RED, N-WHITE, G-GREEN

COPPER, TYPE MC

IT BODIES AND FITTINGS FOR RIGID METAL CONDUIT SHALL BE CAST THREADED CONDUIT FITTINGS FOR ELECTRICAL METALLIC TUBING SHALL BE COMPRESSION INSTALL 200 Ib NYLON PULL CORD IN ALL EMPTY RACEWAYS FOR FUTURE USE. FIRESTOPPING TO ELECTRICAL PENETRATIONS OF FIRE-RATED FLOOR AND WALL IBLIES TO RESTORE ORIGINAL FIRE-RESISTANCE RATING OF ASSEMBLY.

ORS EXPOSED: RIGID GALVANIZED STEEL CONFORMING TO ANSI C80.5 DORS UNDERGROUND: RIGID NONMETALLIC CONDUIT (SCHEDULE 40 PVC) RMING TO NEMA TC 2

ORS CONNECTED TO VIBRATING OR MOTORIZED EQUIPMENT: LIQUIDTIGHT BLE METAL CONDUIT CONFORMING TO UL 360 RS CONCEALED: ELECTRICAL METALLIC TUBING CONFORMING TO ANSI C80.3 RS EXPOSED: ELECTRICAL METALLIC TUBING CONFORMING TO ANSI C80.3 RS CONNECTED TO VIBRATING OR MOTORIZED EQUIPMENT: FLEXIBLE METALLIC

ET BOXES S SHALL COMPLY WITH NEMA OS 1 AND SHALL BE SHEET METAL TYPE WITH ER RING IN DRY LOCATIONS. BOXES SHALL COMPLY WITH NEMA FB 1 AND SHALL BE METAL TYPE FD WITH GASKETED COVER IN DAMP OR WET LOCATIONS.

ND JUNCTION BOXES SHALL BE HOT-DIPPED GALVANIZED STEEL. BOX COVERS SHALL BE GASKETED WITH SCREWED OR BOLTED FASTENERS.

DEVICES S SHALL COMPLY WITH NEMA WD 1 AND WD 6. DEVICES SHALL BE COMMERCIAL FICATION GRADE OR BETTER. ALL DEVICES SHALL BE OF THE GROUNDING TYPE. ES SHALL BE MOUNTED FLUSH WITH THE LONG DIMENSION VERTICAL AND IDING TERMINAL OF RECEPTACLES ON TOP. SWITCHES SHALL BE QUIET TYPE, 20 AMPERES AT 120/277 VOLTS. GROUND FAULT CIRCUIT INTERRUPTERS SHALL BE THROUGH TYPE. WEATHERPROOF COVERS SHALL BE PROVIDED IN DAMP OR WET IONS. PROGRAM OCCUPANCY SENSORS FOR FIFTEEN MINUTES WITH MEDIUM TIVITY. TRAIN OWNER TO ADJUST TIME AND SENSITIVITY.

E COLOR: SELECTED BY ARCHITECT. E COVER: SMOOTH PLASTIC WITH COLOR TO MATCH DEVICE COLOR

RICAL IDENTIFICATION TION TO CODE-REQUIRED LABELING, ALL PANELBOARDS, ELECTRICAL SURES, TRANSFORMERS, AND DISCONNECT SWITCHES SHALL BE IDENTIFIED WITH GRAVED PLASTIC LAMINATED NAMEPLATE. LETTERING SHALL BE 1/2" INCHES HIGH HALL BE WHITE ON A BLACK BACKGROUND. NAMEPLATES SHALL BE ATTACHED TO MENT WITH STAINLESS STEEL SELF-TAPPING SCREWS. CONTRACTOR TO DINATE WITH THE UTILITY COMPANY TO DETERMINE THE AVAILABLE FAULT ENT AT THE PANEL LOCATION SHOWN ON THE DRAWINGS. CONTRACTOR TO DE ELECTRICAL EQUIPMENT WITH AIC RATING OVER THE CALCULATED FAULT ENT. CALCULATED FAULT CURRENT SHALL BE LISTED ON EACH PIECE OF RICAL EQUIPMENT. CONTRACTOR TO PROVIDE AND AFFIX ARC FLASH WARNING S ON ALL ELECTRICAL SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL ERS, LOAD CENTERS, DISCONNECTS AND ENCLOSED CIRCUIT BREAKERS PER 2014 RTICLE 110.16.

DING AND BONDING COMPONENTS SHALL COMPLY WITH UL 467. AN INSULATED MENT-GROUNDING CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS FEEDER AND BRANCH CIRCUITS. EXOTHERMIC-WELDED CONNECTIONS SHALL BE FOR ATTACHMENT TO STRUCTURAL STEEL AND UNDERGROUND CONNECTIONS. NDING ELECTRODES SHALL BE 3/4" x 10' COPPERWELD TYPE.

PANELBOARDS PANELBOARDS SHALL COMPLY WITH NEMA PB 1. SHOP DRAWINGS FOR EACH PANELBOARD SHALL BE SUBMITTED AND SHALL INCLUDE BUS CONFIGURATION AND CURRENT RATINGS, OVERCURRENT DEVICE ARRANGEMENT AND SETTINGS, AND PANELBOARD SHORT CIRCUIT RATING. PHASE AND NEUTRAL BUSSES SHALL BE COPPER. AN EQUIPMENT GROUND BUS SHALL BE PROVIDED AND SHALL BE BONDED TO THE PANEL BOX. PANELBOARDS WITH A MAIN SERVICE DISCONNECT SHALL BE LISTED FOR USE AS SERVICE EQUIPMENT. PANELBOARD TRIM SHALL BE BOLT-ON TYPE. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE. CIRCUIT BREAKERS SHALL BE LISTED FOR SWD, HID OR HACR USE AS APPROPRIATE. MULTI-POLE CIRCUIT BREAKERS SHALL HAVE A COMMON TRIP. TANDEM CIRCUIT BREAKERS SHALL NOT BE USED. FILLER PLATES SHALL BE INSTALLED IN UNUSED SPACES. A TYPED CIRCUIT DIRECTORY SHALL BE INSTALLED ON THE INSIDE OF THE PANELBOARD DOOR.

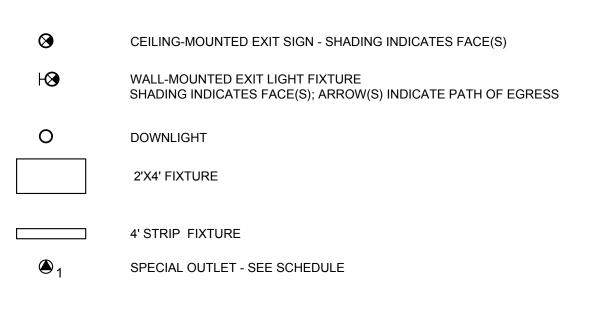
FUSES SHALL BE NEMA FU 1 CARTRIDGE TYPE. VOLTAGE RATING SHALL BE CONSISTENT WITH CIRCUIT VOLTAGE. ARRANGE FUSES IN FUSIBLE DEVICES SO FUSE RATINGS ARE READABLE WITHOUT REMOVING FUSE. INSTALL TYPEWRITTEN LABELS ON INSIDE DOOR OF EACH FUSIBLE DEVICE TO INDICATE FUSE REPLACEMENT INFORMATION.

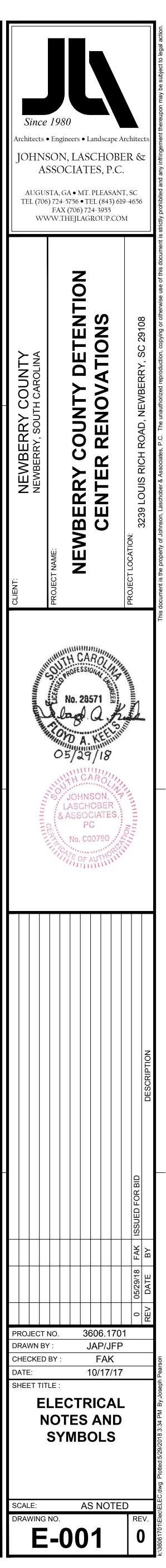
MOTOR FEEDER AND BRANCH CIRCUITS: UL CLASS RK5, TIME DELAY OTHER FEEDER AND BRANCH CIRCUITS: UL CLASS RK1, NON-TIME DELAY

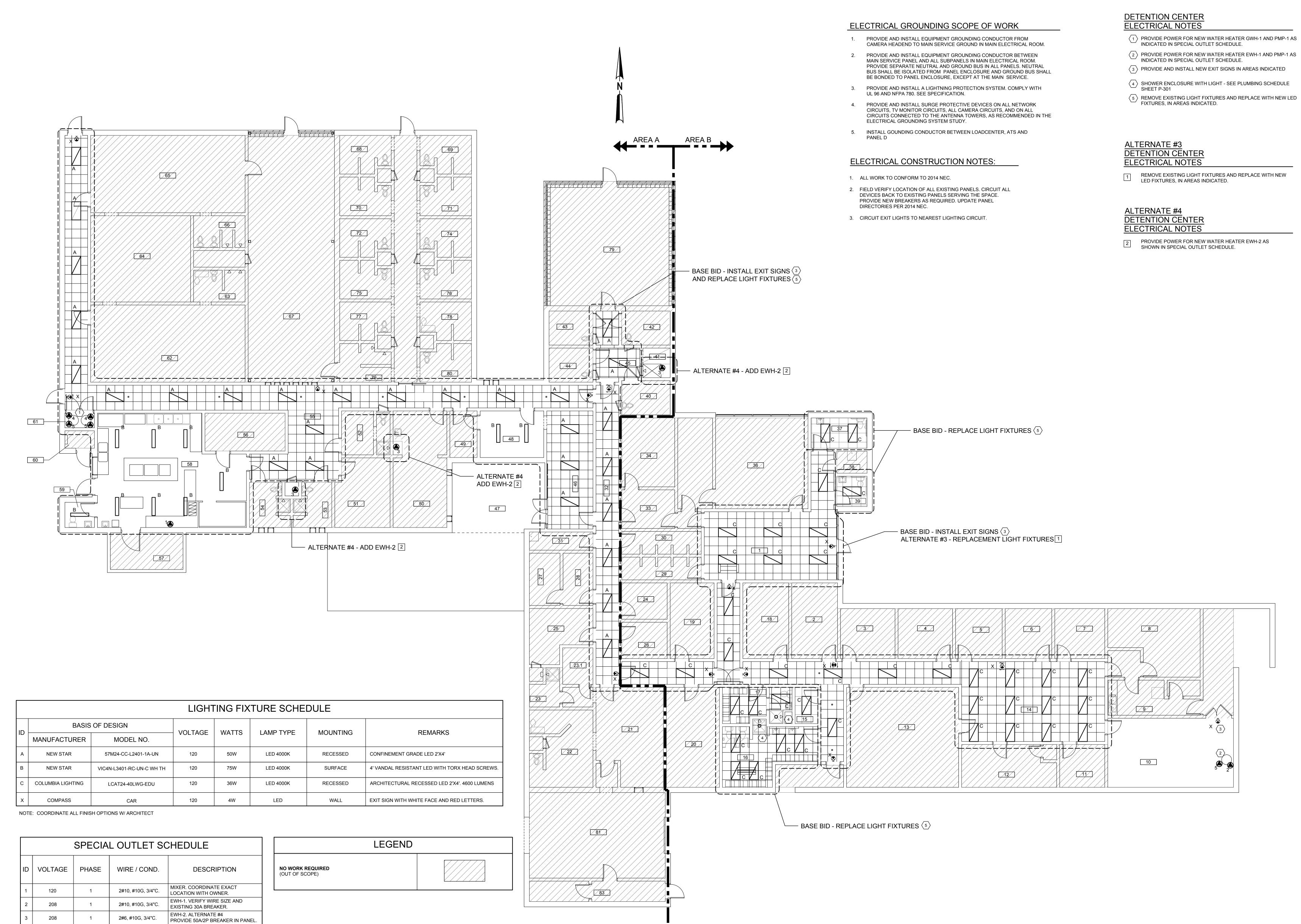
DISCONNECT SWITCHES SWITCHES SHALL BE FUSED OR NONFUSED NEMA KS 1 TYPE HD. SWITCHES SHALL BE HANDLE LOCKABLE AND INTERLOCKED WITH COVER IN CLOSED POSITION. ENCLOSURES SHALL BE NEMA TYPE 1 IN INDOOR LOCATIONS AND NEMA TYPE 3R IN OUTDOOR LOCATIONS. HVAC EQUIPMENT DISCONNECTS ARE TO BE CONSIDERED ELECTRICAL EQUIPMENT AND SHALL BE INSTALLED TO MAINTAIN WORKING SPACE PER 2014 NEC ARTICLE 110.26.

INTERIOR LIGHTING FIXTURE MOUNTING HARDWARE AND TRIM SHALL BE COORDINATED WITH THE CEILING SYSTEM. RECESSED FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURAL SYSTEM. FLUORESCENT FIXTURE BALLASTS SHALL BE CBM LABELED, CLASS P, SOUND RATING "A", ELECTRONIC, HIGH POWER FACTOR TYPE.

ELECTRICAL SYMBOLS







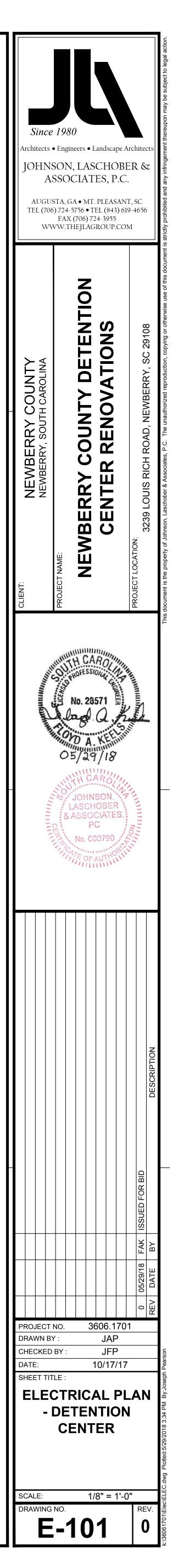
				LIGHTING FIXTURE SCHEDULE							
		BASIS	VOLTAGE	WATTS	LAMP TYPE						
		MANUFACTURER	MODEL NO.	VOLTAGE	WATIS		MOUNTING				
A	1	NEW STAR	57M24-CC-L2401-1A-UN	120	50W	LED 4000K	RECESSED	CONFINEMENT G			
E	3	NEW STAR	VIC4N-L3401-RC-UN-C WH TH	120	75W	LED 4000K	SURFACE	4' VANDAL RESIS			
C	;	COLUMBIA LIGHTING	LCAT24-40LWG-EDU	120	36W	LED 4000K	RECESSED	ARCHITECTURAL			
>	<	COMPASS	CAR	120	4W	LED	WALL	EXIT SIGN WITH			

	SPECIAL OUTLET SCHEDULE								
ID	VOLTAGE	PHASE	WIRE / COND.	DESCRIPTION					
1	120	1	2#10, #10G, 3/4"C.	MIXER. COORDINATE EXACT LOCATION WITH OWNER.					
2	208	1	2#10, #10G, 3/4"C.	EWH-1. VERIFY WIRE SIZE AND EXISTING 30A BREAKER.					
3	208	1	2#6, #10G, 3/4"C.	EWH-2. ALTERNATE #4 PROVIDE 50A/2P BREAKER IN PANEL.					
4	120	1	2#12, #12G, 3/4"C.	GWH-1. CONNECT TO NEAREST RECEPTACLE CIRCUIT.					
5	120	1	2#12, #12G, 3/4"C.	PMP-1. CONNECT TO NEAREST RECEPTACLE CIRCUIT.					
SPE	SPECIAL OUTLET SCHEDULE NOTES:								

PROVIDE LOCAL DISCONNECTING MEANS FOR EACH MOTOR. COORDINATE WITH MOTOR MOCP.

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

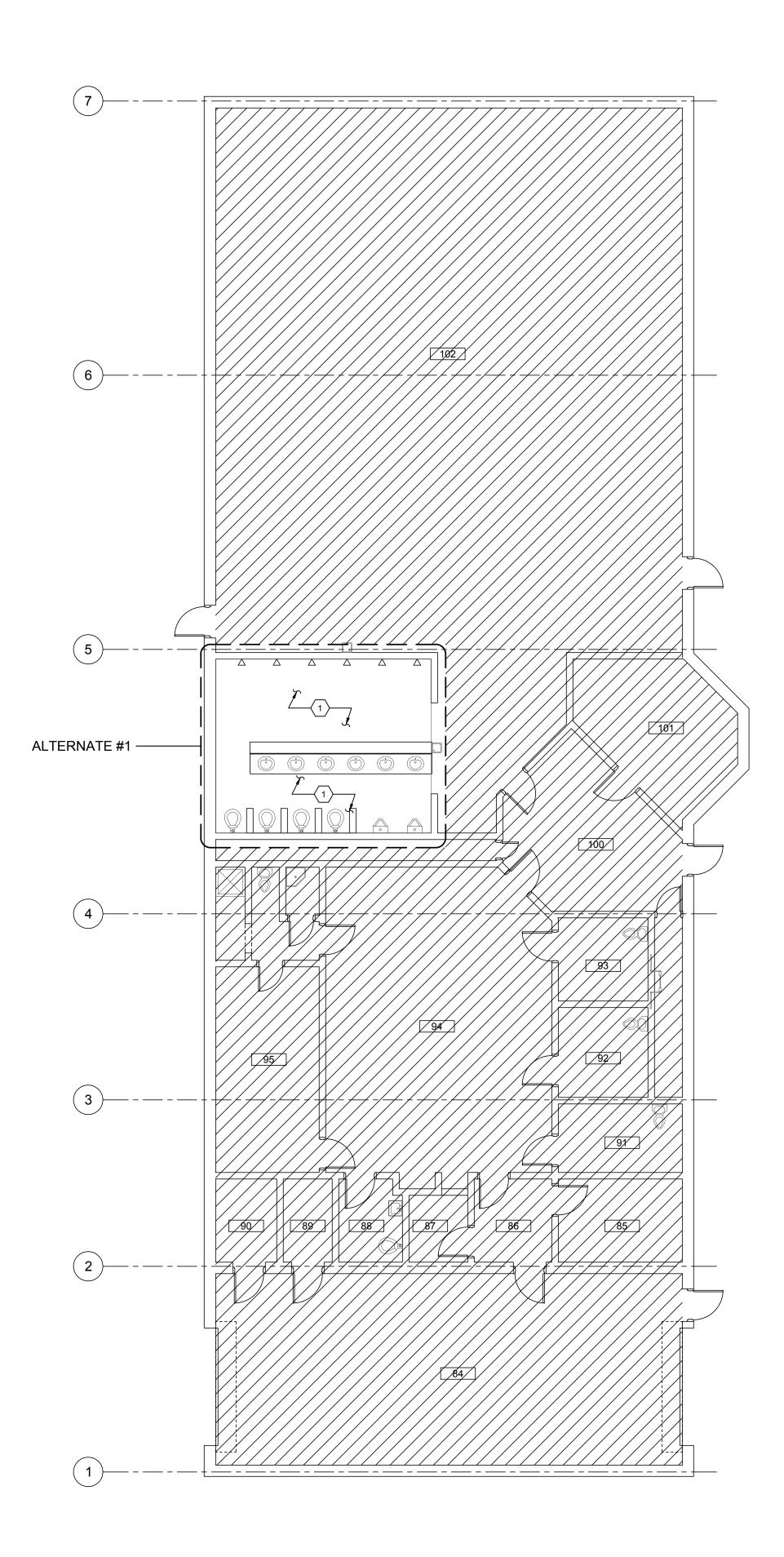
- (1) PROVIDE POWER FOR NEW WATER HEATER GWH-1 AND PMP-1 AS



24 FT.

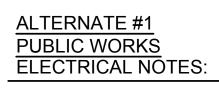
D			
С			
В			
ER: JLA30x42.DWG REV. 10/11/2016 BLB			

1



1 ELECTRICAL PLAN - PUBLIC WORKS SCALE: 1/8" = 1'-0" E-102

3



(1) REMOVE, SANDBLAST, REFINISH, CLEAN, RELAMP AND REINSTALL ALL LIGHTING FIXTURES IN THE AREAS INDICATED.



