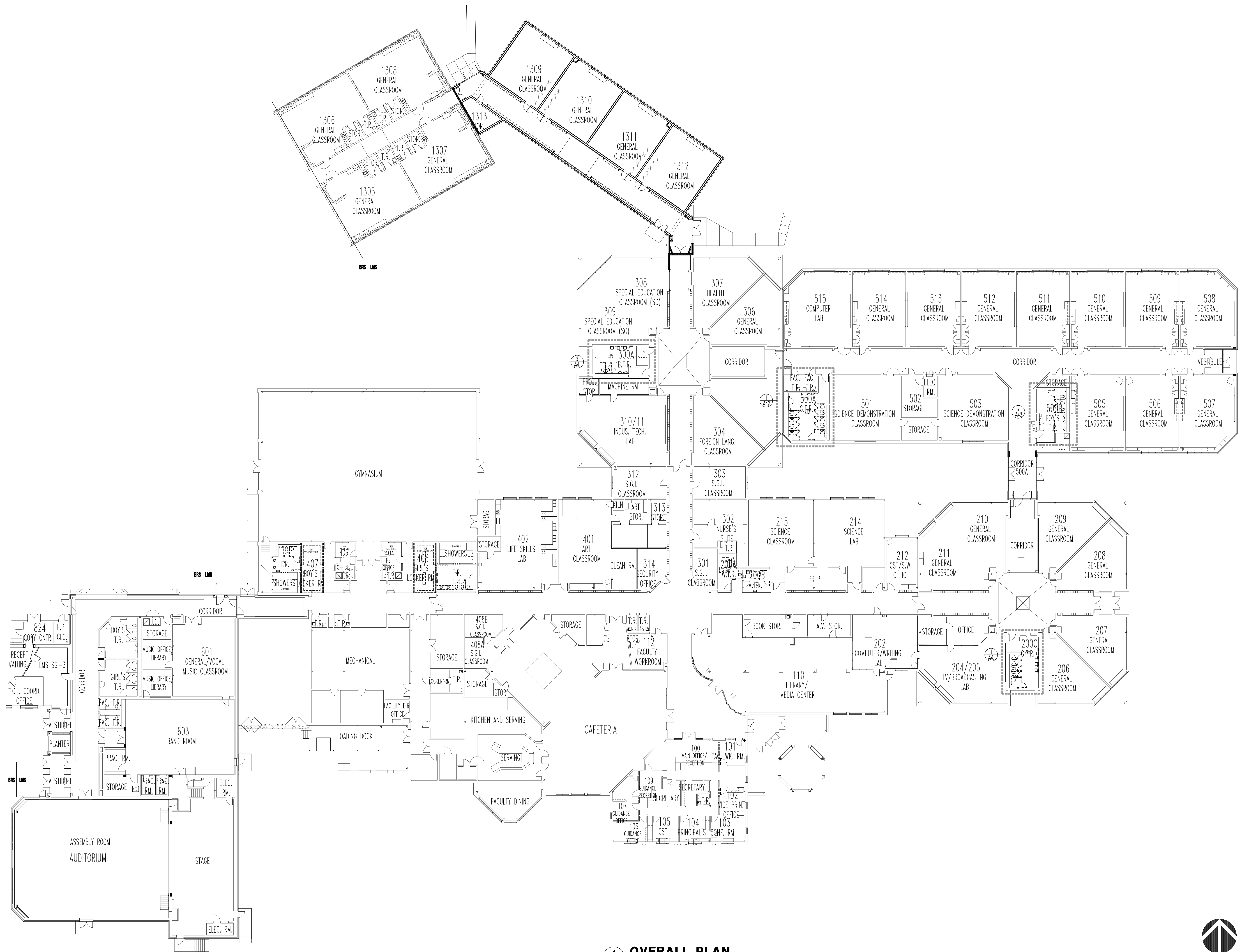


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1 OVERALL PLAN TOILET ROOM RENOVATIONS
A1.1

1/16"=1'-0"



DATE	No.	REVISION

STATE PLAN NO. 2850-060-18-1000
 CONTRACT 5 - TOILET ROOM RENOVATIONS
LUMBERTON TOWNSHIP SCHOOL DISTRICT
LUMBERTON MIDDLE SCHOOL
 ISSUED FOR BID

LOT 3
BURLINGTON COUNTY

BOARD PRESIDENT, CHRIS STUBBORN
SUPERINTENDENT, JOSEPH LAMOWSKI

TOWNSHIP OF LUMBERTON

Linda M. Wroble, AIA, Vice President
 New Jersey Lic. # 2410008900

Louis J. DeLorenzo, AIA, PP, President
 New Jersey Lic. # 2410008100

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SCALE: AS NOTED DRAWN BY: **lv**
 COMM. No. 7990 CHECKED BY: **dcd**
 DATE: 9/3/19

SHEET TITLE:
LMS OVERALL TOILET ROOM PLANS

SHEET No.: **A1.1**

LMS - ROOM FINISH SCHEDULE - TOILET ROOM CONTRACT

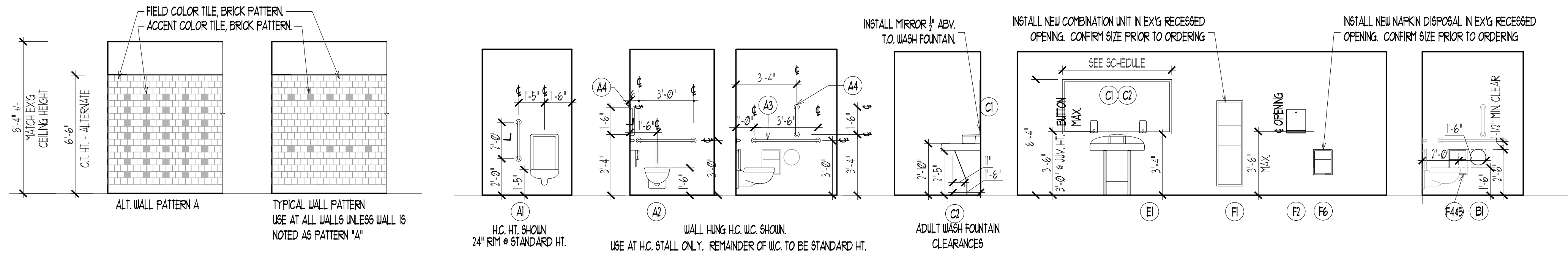
ROOM NO.	ROOM NAME	FLOOR				BASE			WALL			WAINSCOT - ALTERNATE			CEILING			REMARKS
		MAT.	EX'G FIN.	NEW FIN.	COLOR	NEW MAT. FIN.	HT.	COLOR	MAT.	FINISH	COLOR	MAT.	COLOR	HT.	MAT.	FINISH	HT.	
300C	GRLS TOILET ROOM	EX'G CONC.	C.T.	MONO EPOXY	TBD	6"	TBD	EX'G	SP COAT	TBD	C.T.	TBD	6'-6"	AC-1	N/A	MATCH EX'G		
300A	BOYS TOILET ROOM	EX'G CONC.	C.T.	MONO EPOXY	TBD	6"	TBD	EX'G	SP COAT	TBD	C.T.	TBD	6'-6"	AC-1	N/A	MATCH EX'G		
500A	GRLS TOILET ROOM	EX'G CONC.	C.T.	MONO EPOXY	TBD	6"	TBD	EX'G	SP COAT	TBD	C.T.	TBD	6'-6"	AC-1	N/A	MATCH EX'G		
500B	BOYS TOILET ROOM	EX'G CONC.	C.T.	MONO EPOXY	TBD	6"	TBD	EX'G	SP COAT	TBD	C.T.	TBD	6'-6"	AC-1	N/A	MATCH EX'G		

ROOM FINISH SCHEDULE NOTES:

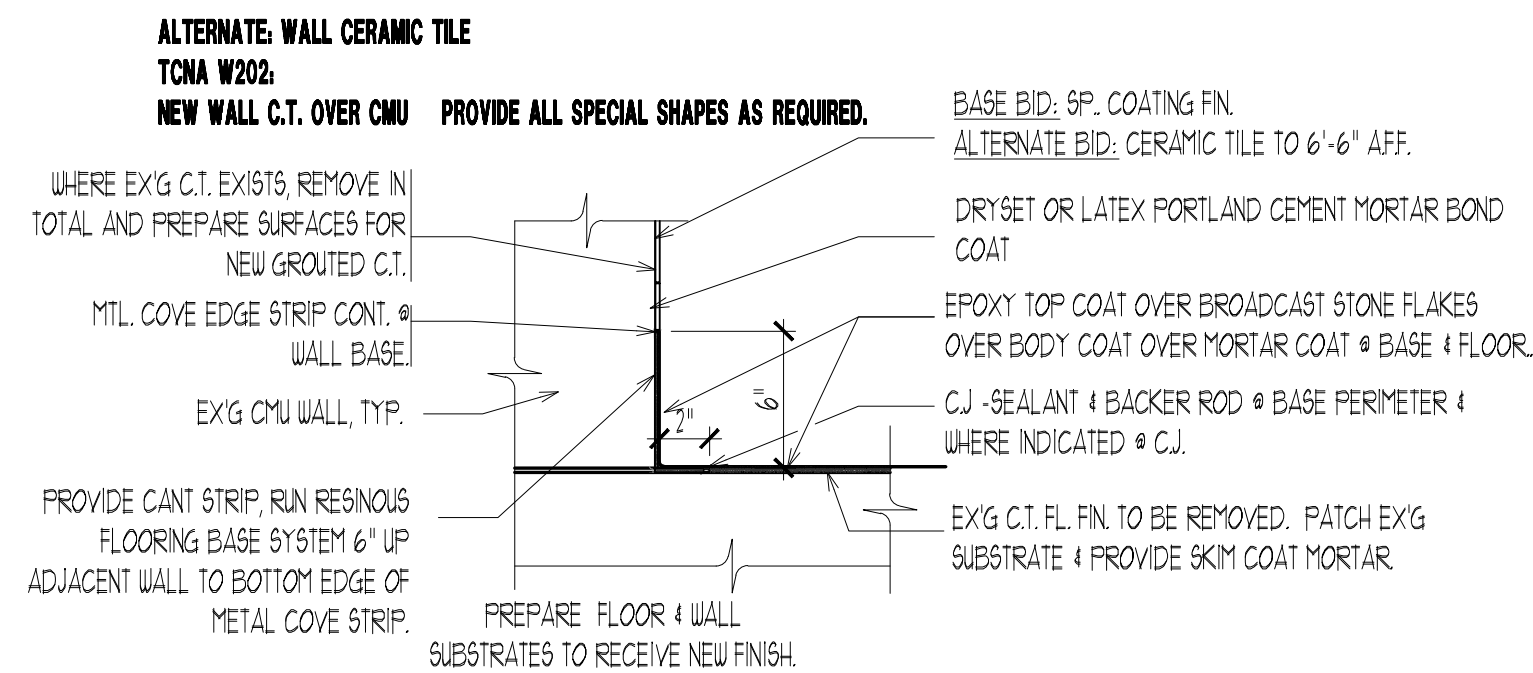
- REMOVE EX'G CERAMIC TILE FLOOR AND BASE. REPAIR UNDERLYING CONCRETE SURFACES AND PREPARE SURFACE FOR NEW C.T. FINISH.
- PATCH AND REPAIR ALL EXPOSED SURFACES PRIOR TO INSTALLATION OF NEW FINISH. REMOVE EX'G EXPOSED ABANDONED FASTENERS AND PATCH WITH MATERIALS TO MATCH EX'G.
- FINISHES DAMAGED OR AFFECTED BY THE SCOPE OF THE CONTRACT SHALL BE RESTORED TO MATCH THE EXISTING CONSTRUCTION AND WHERE PATCH TO ACCOMMODATE PROPOSED CONSTRUCTION IS INDICATED.
- THE SCOPE OF THE WORK REQUIRES MODIFICATIONS TO THE EXISTING CONSTRUCTION. EXISTING ELECTRICAL DEVICES, RECEPTACLES, SWITCHES, CEILING MPE SYSTEMS, MECHANICAL DIFFUSERS, DUCTWORK, CEILING MOUNTED EQUIPMENT, FIRE ALARM DEVICES AND SPEAKERS SHALL BE SALVAGED, DISCONNECTED AND RELOCATED AS REQUIRED TO ACCOMMODATE THE WORK OF THIS CONTRACT.
- EX'G LIGHT FIXTURES IN TOILET ROOMS SHALL BE REPLACED BY THE E.C.
- EX'G FIRE ALARM AND FIRE SUPPRESSION DEVICES SHALL BE DISCONNECTED AND RECONNECTED AS REQUIRED TO ACCOMMODATE THE WORK OF THIS CONTRACT.
- COLORS SHALL BE SELECTED BY THE OWNER. COLOR SELECTIONS SHALL BE FROM THE FULL RANGE OF COLORS REFERENCED WITHIN THE CONTRACT SPECIFICATIONS.

TOILET ROOM ACCESSORY SCHEDULE

RM. NO.	ROOM NAME	GRAB BARS				TOILET TISSUE DISPENSER	MIRROR		SOAP DISPENSER	WASTE/TOWEL COMBINATION	TOWEL DISPENSER	SAN. NAP. DISPOSAL	SAN. NAP. DISPOSAL	SAN. NAP. DISPOSAL
		A1	A2	A3	A4		C1	C2						
		B-6106-99	B-6106-99	B-6106-99	B-6106-99	OWNER SUPPLIED	B-730	B-730	OWNER SUPPLIED	B-3944 W/3961-50	OWNER SUPPLIED	B-254	B-254	B-353
		24"	36"	42"	18"		36"H x 60"W		SEMI-RECESSED	BOT. 48" AFF.	THROUGH-PARTITION MID.			
300C	WOMEN'S TOILET ROOM	•	•	•	•	(4)	(2)	(4)	•	•	(2)			•
300A	MEN'S TOILET ROOM	•	•	•	•	(3)	(2)	(4)	•	•				
500A	WOMEN'S TOILET ROOM	•	•	(3)	(3)	(3)	(2)	(4)	•	•	(4)	•		
500B	MEN'S TOILET ROOM	•	•	•	•	(3)	(1)			(2)				

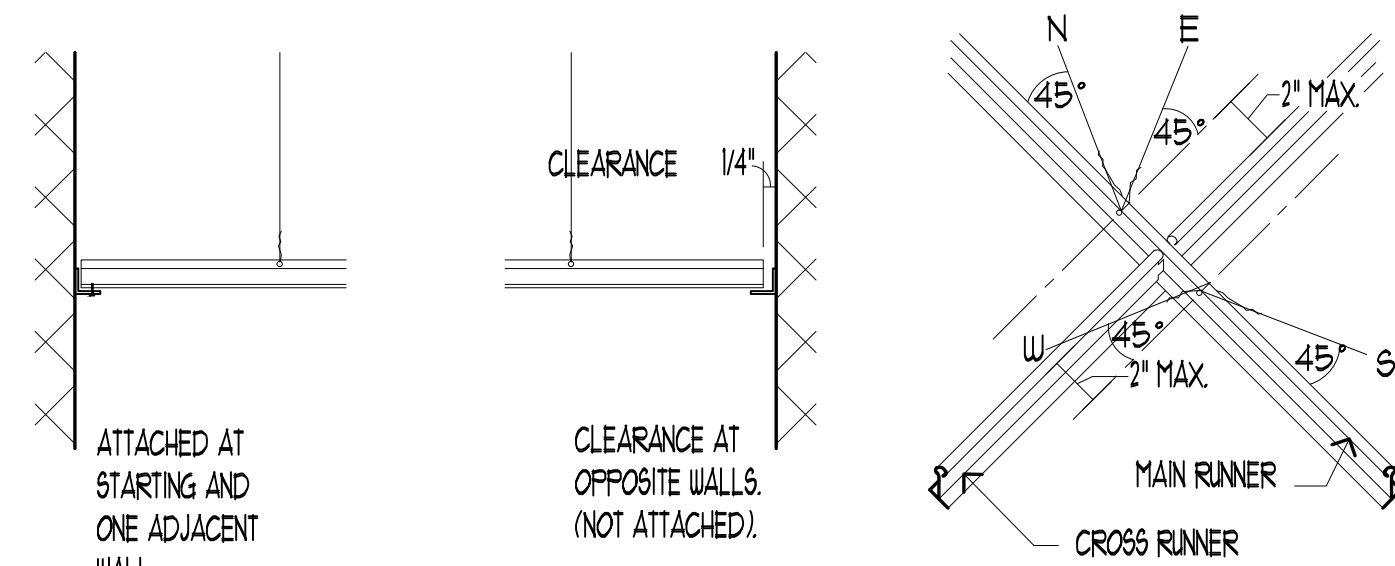


1 ALTERNATE: TYP. C.T. PATTERN 1/4"x1'-0"



2 TOILET ACCESSORY ELEVATIONS 1/4"x1'-0"

3 FLOOR AND WALL FINISH DETAIL 1-1/2"x1'-0"



NOTE: HANGER WIRES 'N' AND 'S' ARE IN THE SAME VERTICAL PLANE AS THE MAIN RUNNER. HANGER WIRES 'E' AND 'W' ARE IN VERTICAL PLANES PERPENDICULAR TO THE MAIN RUNNER.

4 DETAIL: ACOUSTICAL CEILING SEISMIC RESTRAINT N.T.S.

TOILET RM. DEMONSTRATION NOTES

- REMOVE EXISTING DOOR AND FRAME SYSTEM AS FOLLOWS:
 - N/A
- REMOVE EXISTING FLOOR AND FLOOR FINISHES AS FOLLOWS:
 - N/A
 - REMOVE EX'G CERAMIC TILE WALL BASE AND FLOORING INCLUDING ADHESIVES OR MID SETTING BED. REPAIR ANY SUBSTRUCTURE DAMAGED IN REMOVAL PROCESS WITH MATERIALS TO MATCH EX'G.
 - N/A
- REMOVE EXISTING WALL AND/OR WALL FINISH AS FOLLOWS:
 - REMOVE EX'G WALL CERAMIC TILE, INCLUDING ADHESIVES, AND PREP FOR NEW FINISH. REPAIR ANY SUBSTRUCTURE DAMAGED IN REMOVAL PROCESS WITH MATERIALS TO MATCH EX'G.
 - REMOVE EX'G CMU AS REQUIRED TO ACCOMMODATE NEW ELECTRONIC FLUSH VALVE OR FAUCET SENSOR POWER.
- REMOVE EXISTING CEILING SYSTEMS IN PART OR IN WHOLE AS NOTED AND DEPICTED ON THE DRAWINGS, AND TO THE EXTENT NOTED BELOW. ADJACENT WALL SURFACES SHALL BE REPAIRED AND RESTORED AS REQUIRED TO ACCEPT NEW FINISHES:
 - SUPPORT EX'G EQUIPMENT TO REMAIN. SEE MPE DRAWINGS.
- REMOVE BUILT-IN CONSTRUCTION AS NOTED BELOW. REPAIR EXISTING WALL FINISHES AS REQUIRED TO ACCEPT NEW FINISHES:
 - REMOVE EXISTING WALL MOUNTED MIRRORS AND TR. ACCESSORIES INCLUDING TOILET TISSUE DISPENSERS, PAPER TOWEL DISPENSERS, SOAP DISPENSERS, AND GRAB BARS.
 - REMOVE TOILET PARTITIONS.
 - N/A
- REMOVE EXISTING PLUMBING FIXTURES. SEE PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS. CAP CONNECTIONS WHERE REQUIRED. SEE MPE DRAWINGS FOR ADDITIONAL INFORMATION:
 - EX'G WC, URINALS, SINKS & FL. DRAINS.
- REMOVE EXISTING HEATING/VENTILATION EQUIPMENT.
 - SEE MPE DRAWINGS FOR EXTENT.
- REMOVE EXISTING ELECTRICAL WIRING AND/OR EQUIPMENT. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION:
 - DISCONNECT, REMOVE LIGHTING FIXTURES, PREPARE FINISHES AND ELECTRICAL SYSTEMS FOR THE INSTALLATION OF NEW FIXTURES.
 - DISCONNECT SWITCHES, RECEPTACLES, FIRE ALARM SYSTEMS AND OTHER ELECTRICAL DEVICES. SEE ELECTRICAL DWGS.
- REMOVE EXISTING FIRE SUPPRESSION AS INDICATED:
 - SEE MPE DRAWINGS FOR EXTENT.

DATE	No.	REVISION
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STATE PLAN NO. 2850-060-18-1000
 CONTRACT 5 - TOILET ROOM RENOVATIONS
LUMBERTON TOWNSHIP SCHOOL DISTRICT
 LUMBERTON MIDDLE SCHOOL
ISSUED FOR BID
 BURLINGTON COUNTY
 TOWNSHIP OF LUMBERTON

Superintendent: JOSEPH LAMOWSKI
 Board President: CHRIS STREIBORN

Lotus J. DeLacso, III, PP, President
 New Jersey Lic. # 231000000
 Linda M. Wrensch, AA, Vice President
 New Jersey Lic. # 231000000

Drew C. Diabler, AA, Vice President
 New Jersey Lic. # 231000000

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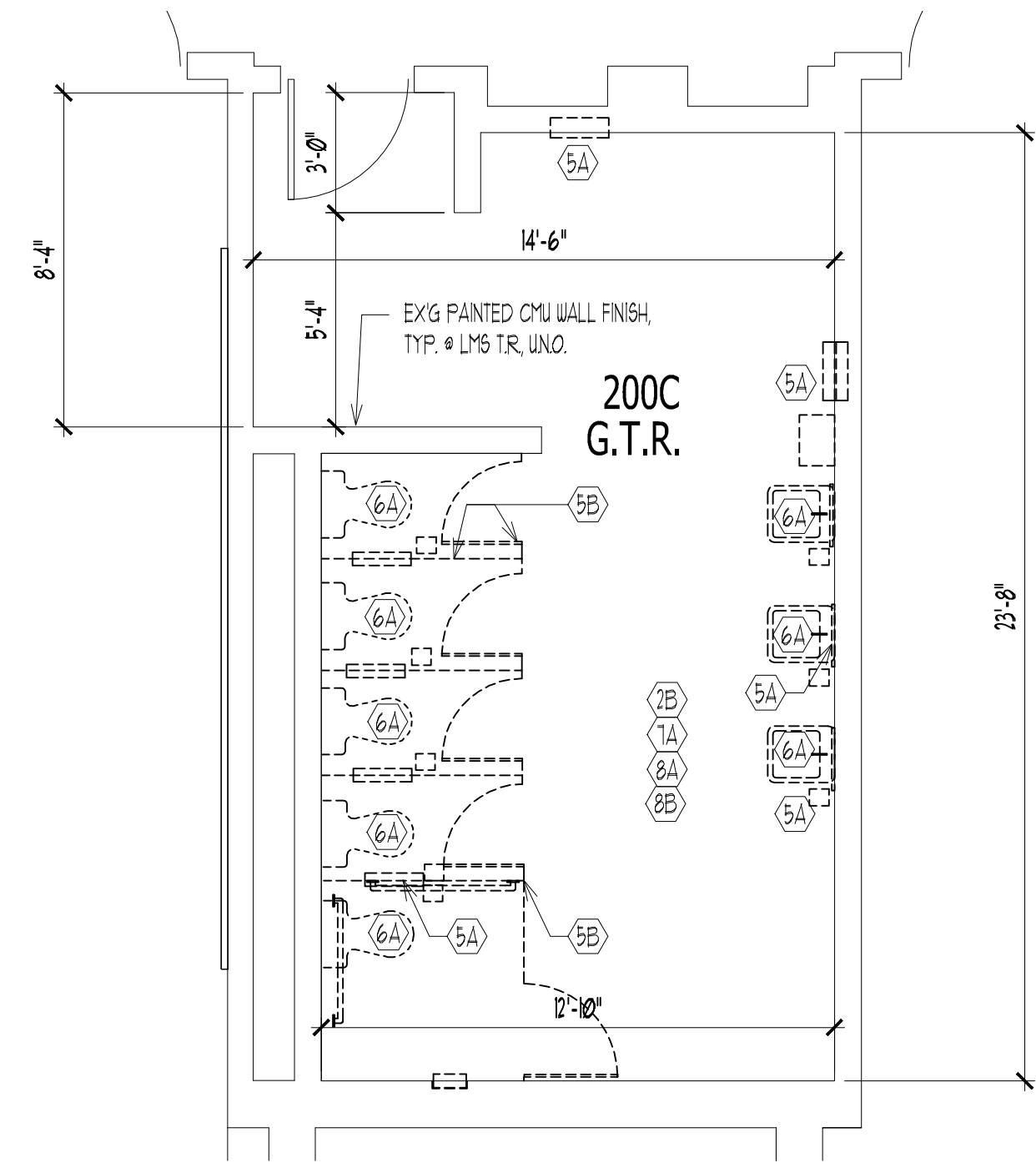
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DATE:	9/3/19		

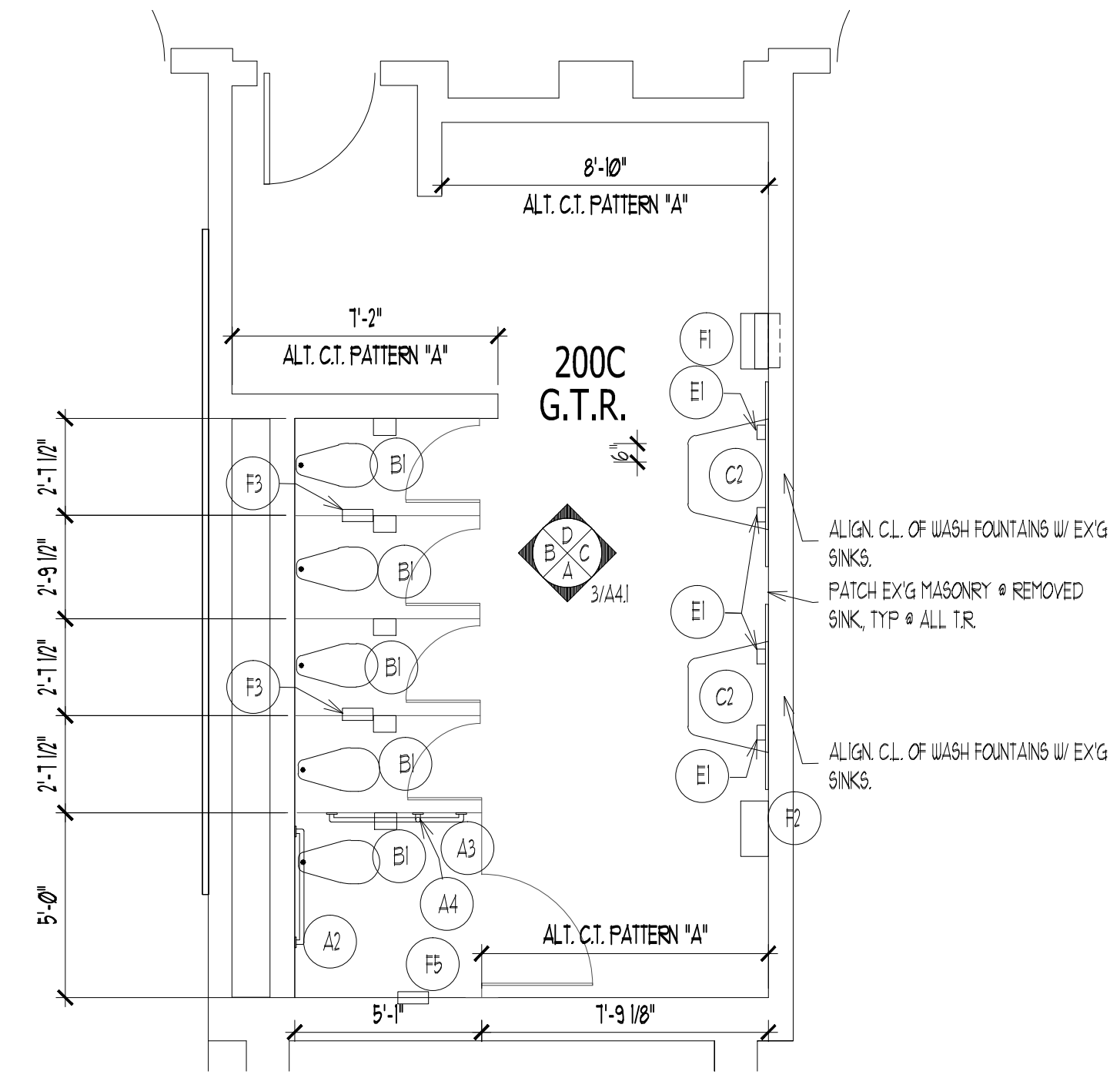
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DETAILS AND SCHEDULES

SHEET No.:
A12

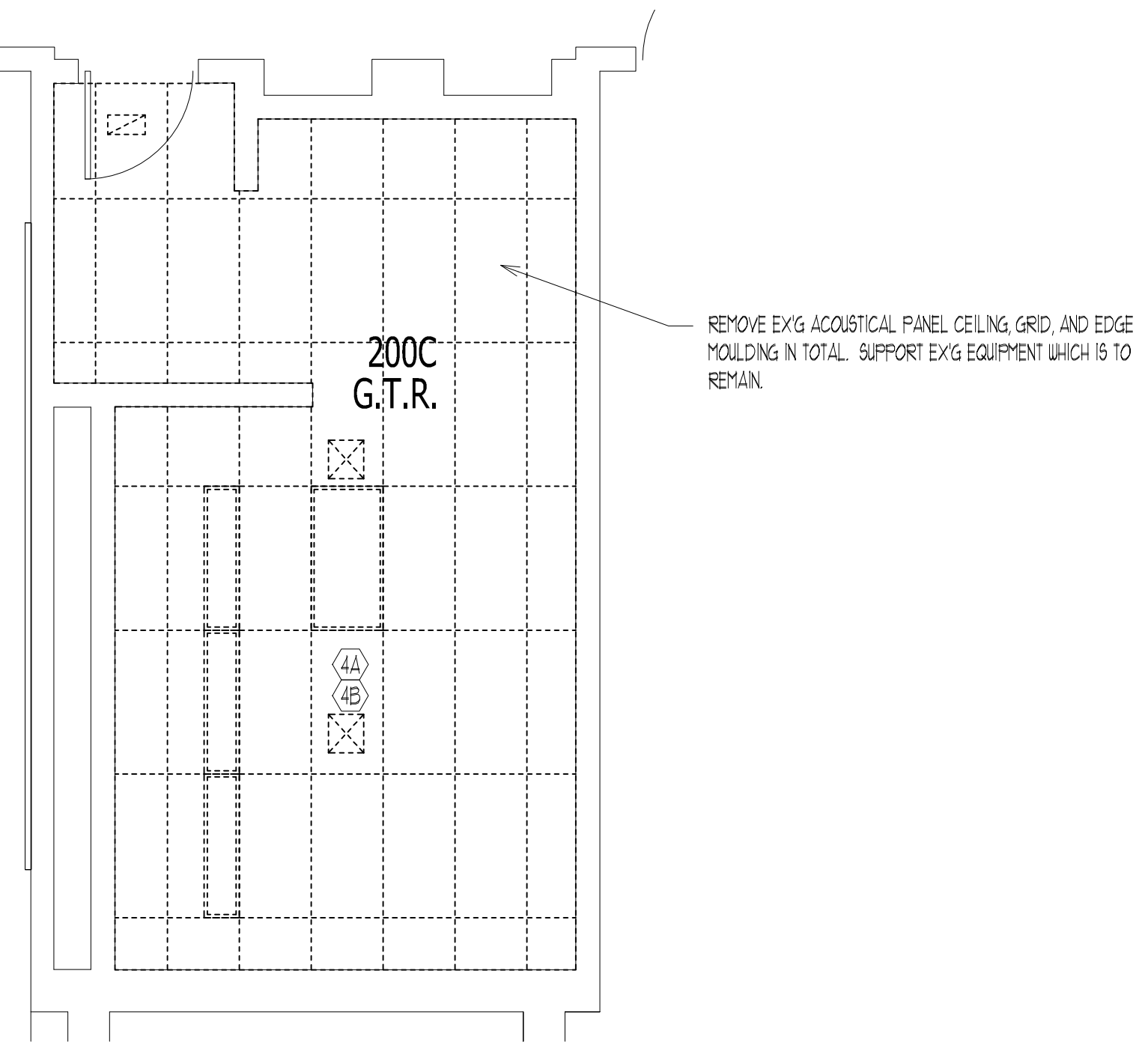




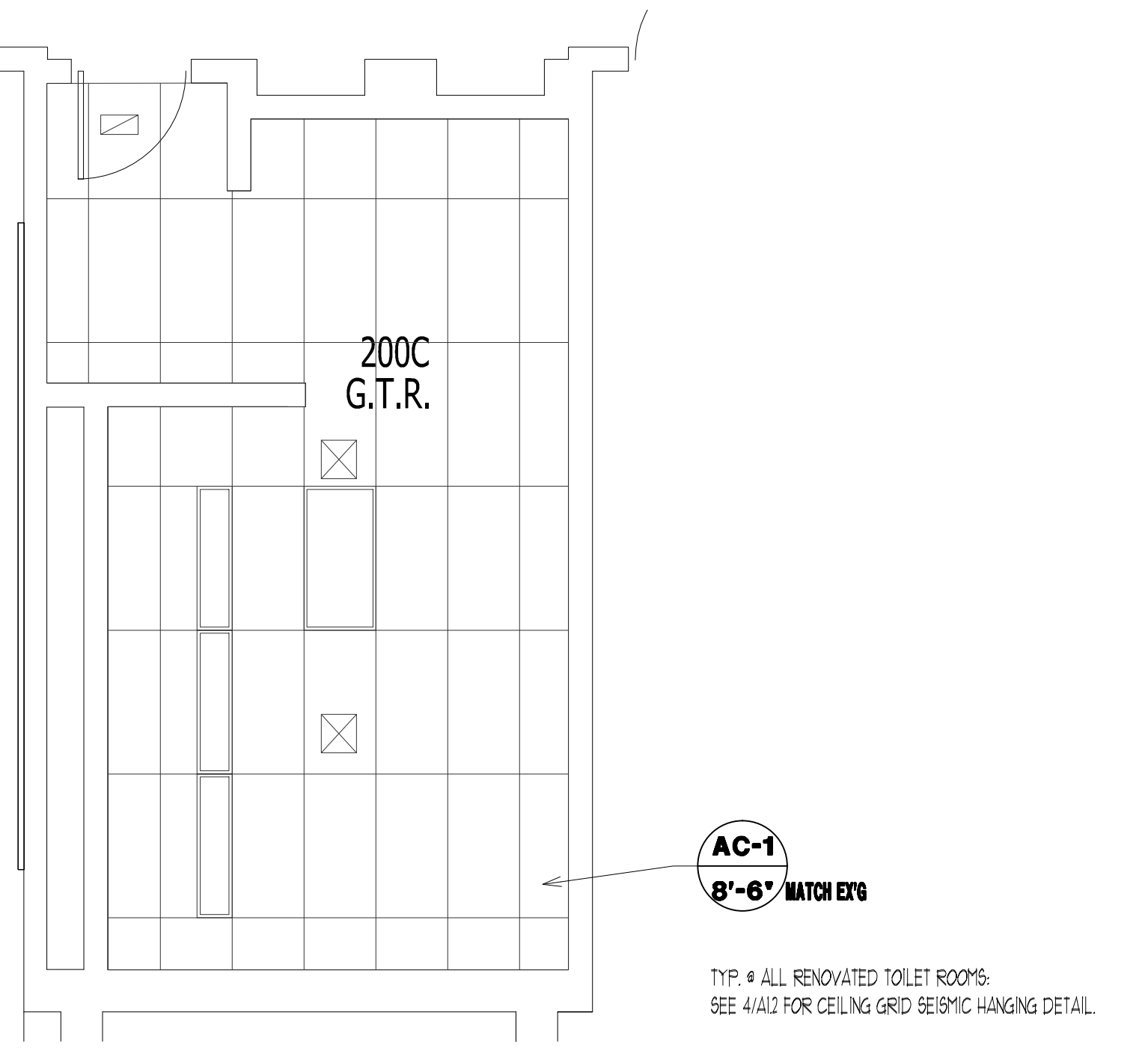
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A4.1 DEMOLITION PARTIAL FL. PLAN
200C GIRL'S TOILET RM 1/4"=1'-0"



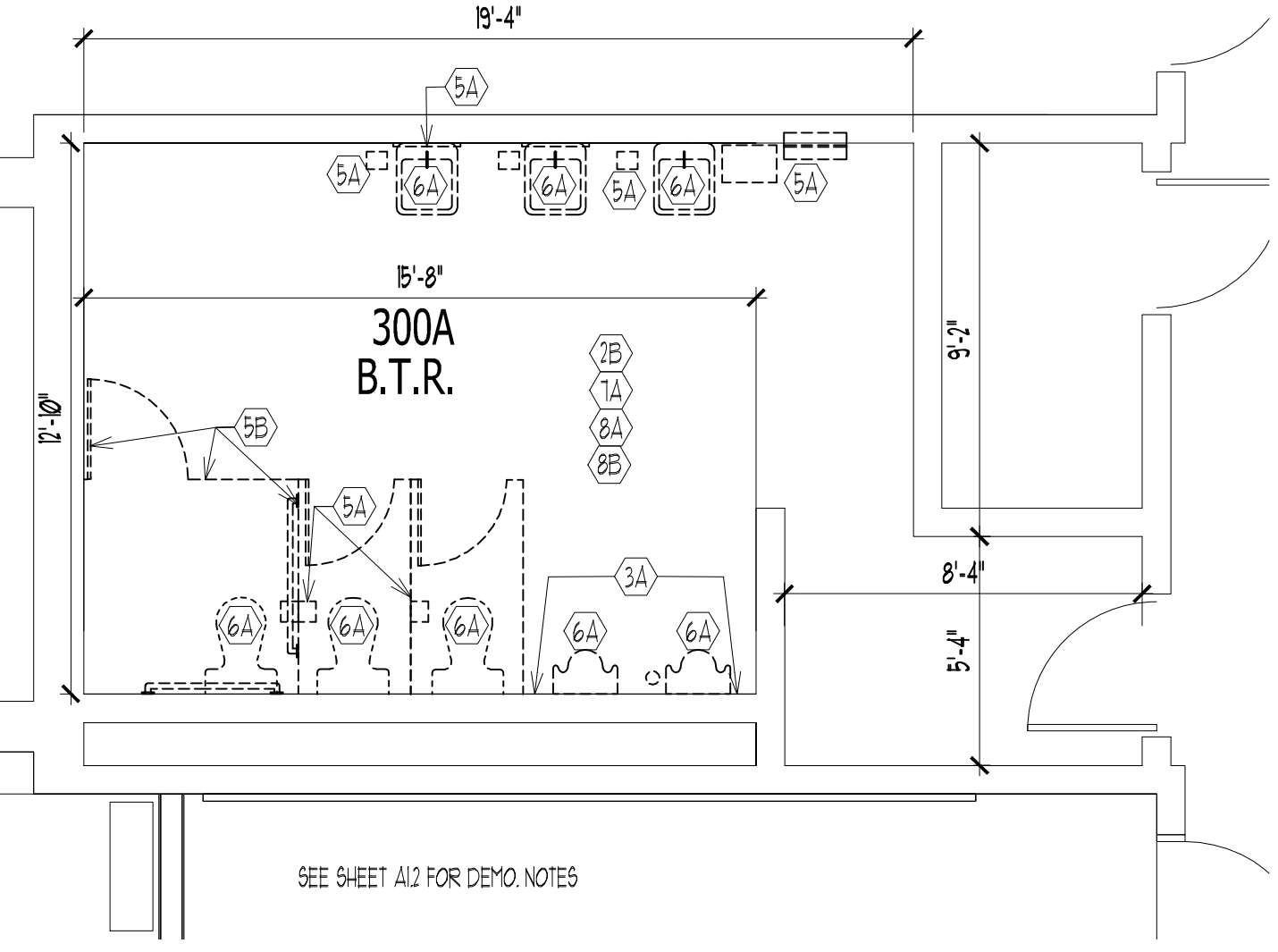
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A4.1 NEW WORK PARTIAL FL. PLAN
200C GIRL'S TOILET RM 1/4"=1'-0"



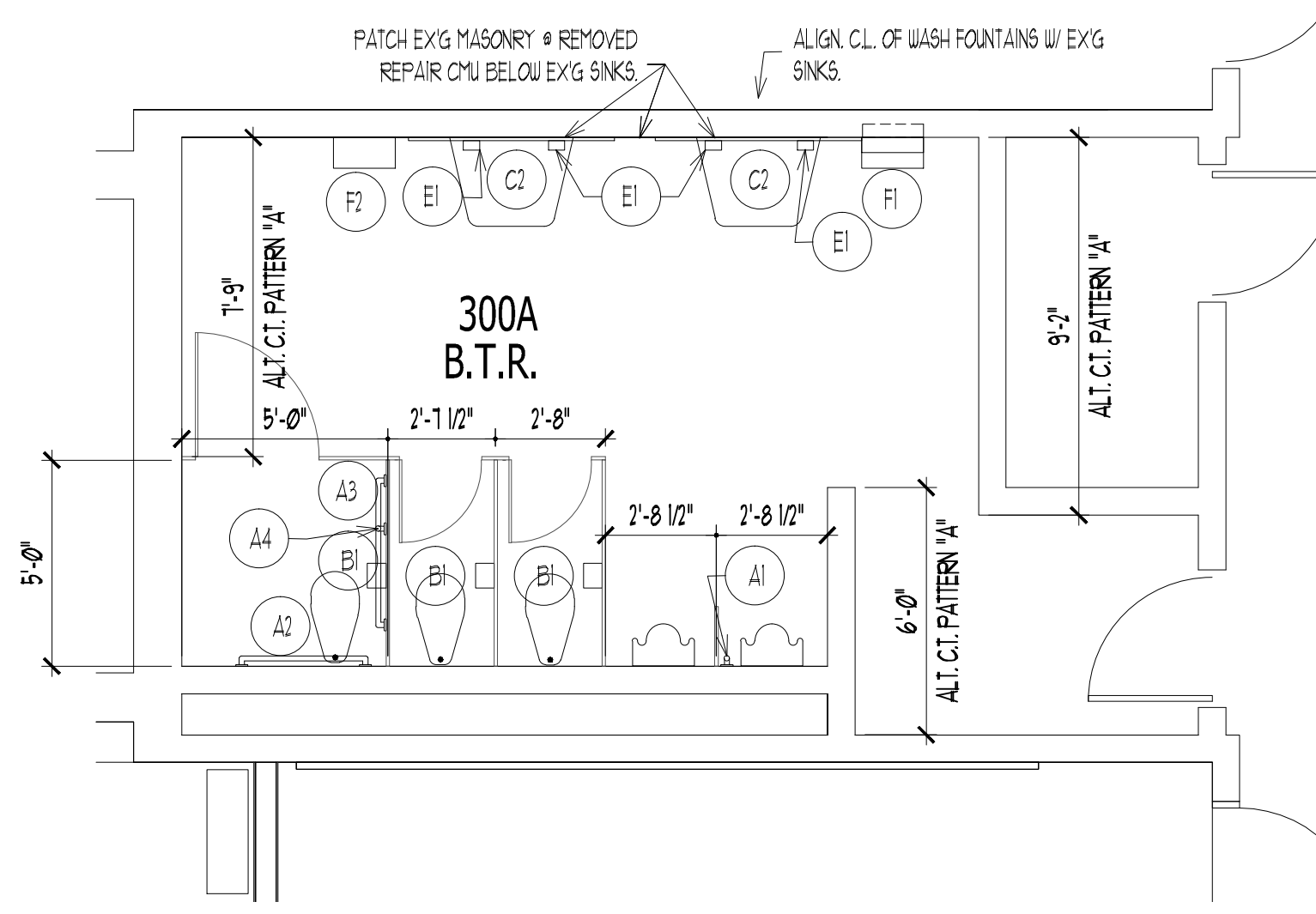
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200C GIRL'S TOILET RM 1/4"=1'-0"



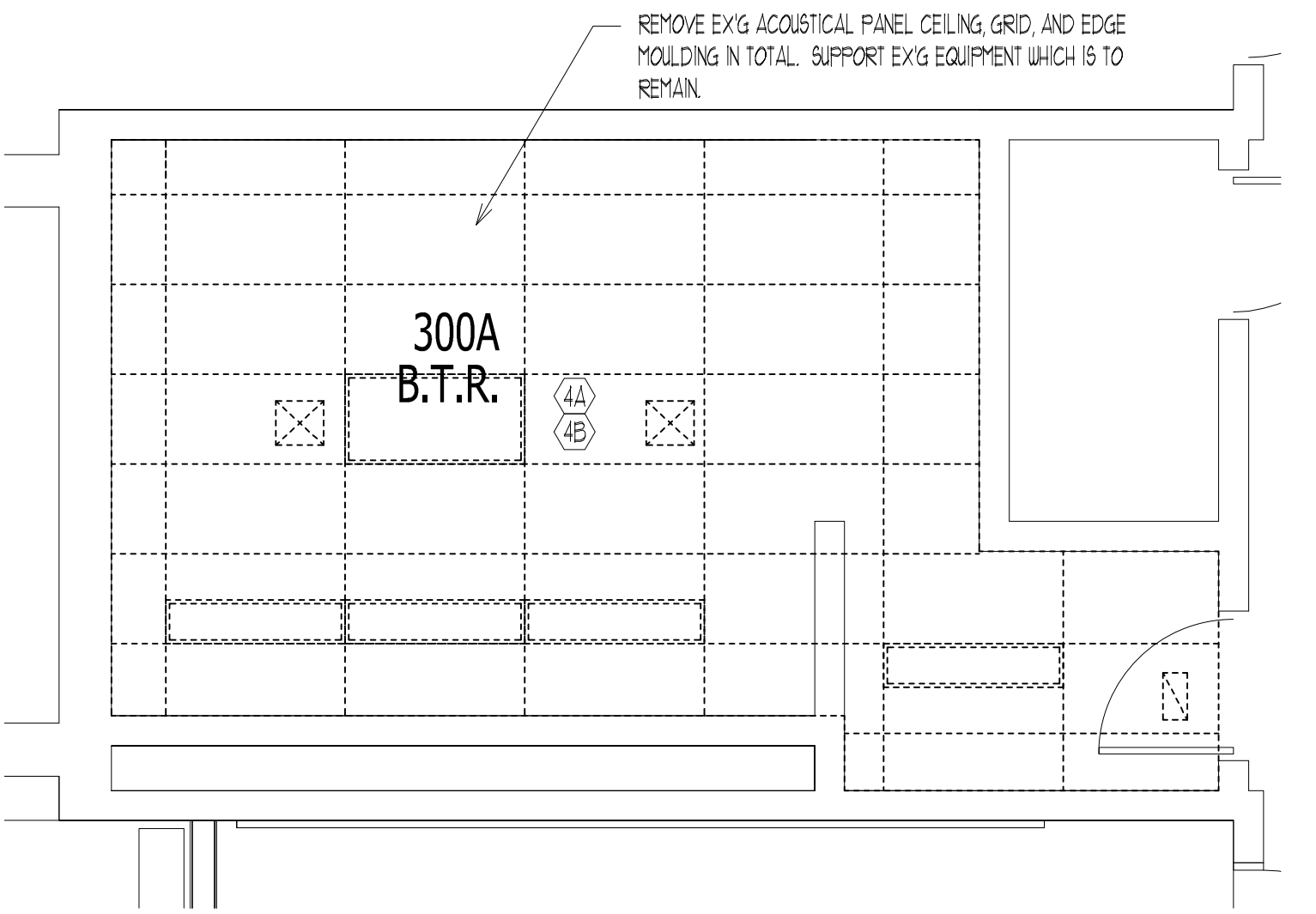
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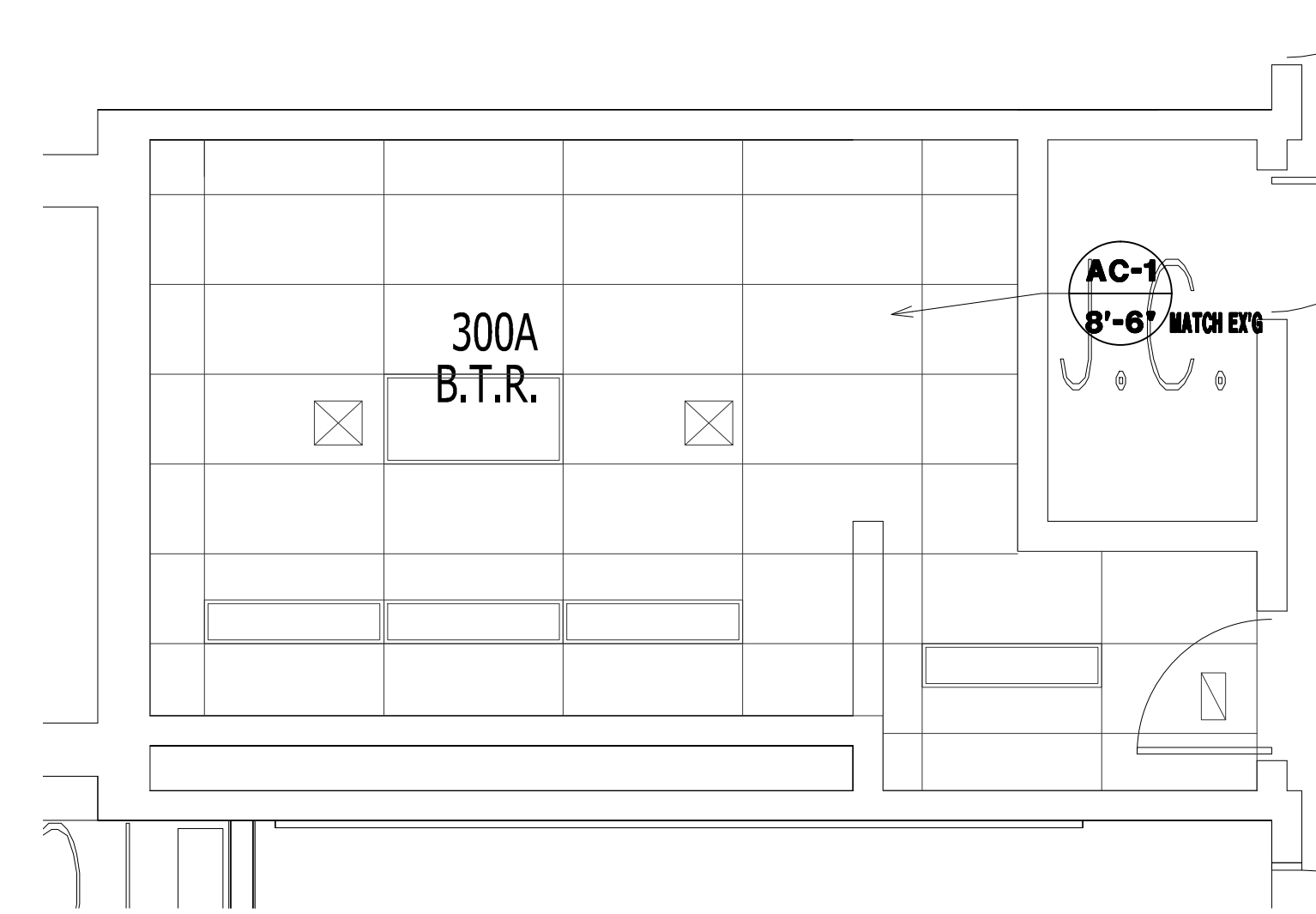
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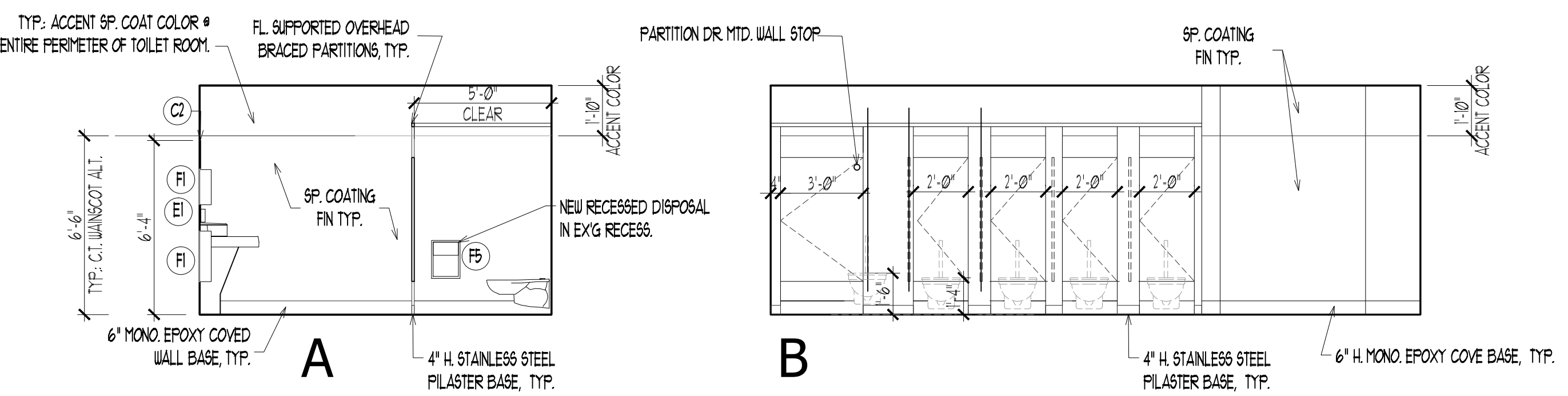
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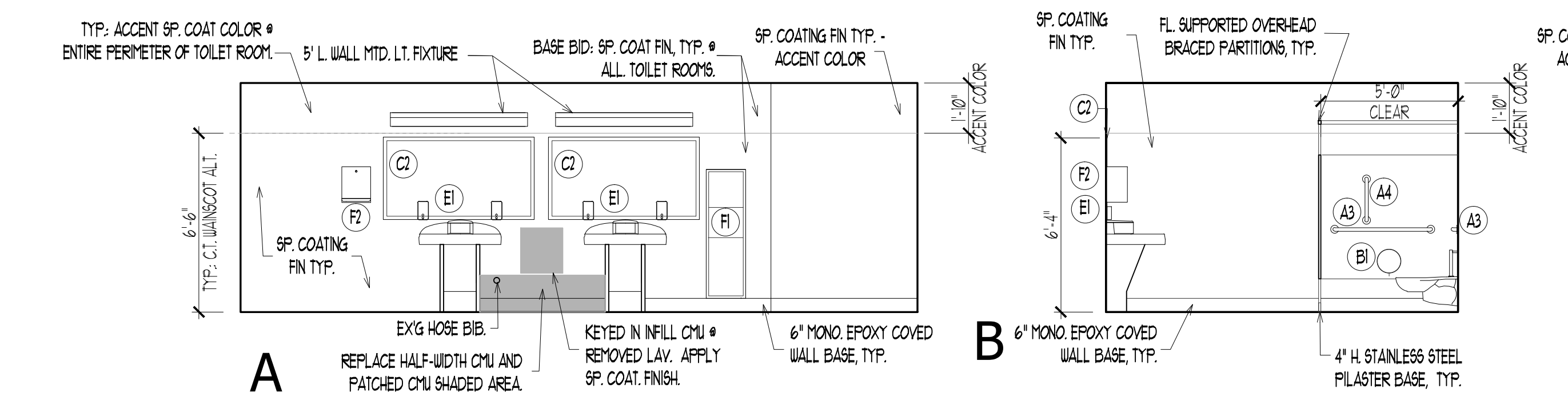
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A4.1 DEMO. PARTIAL R.C.P.
300A BOY'S TOILET RM 1/4"=1'-0"



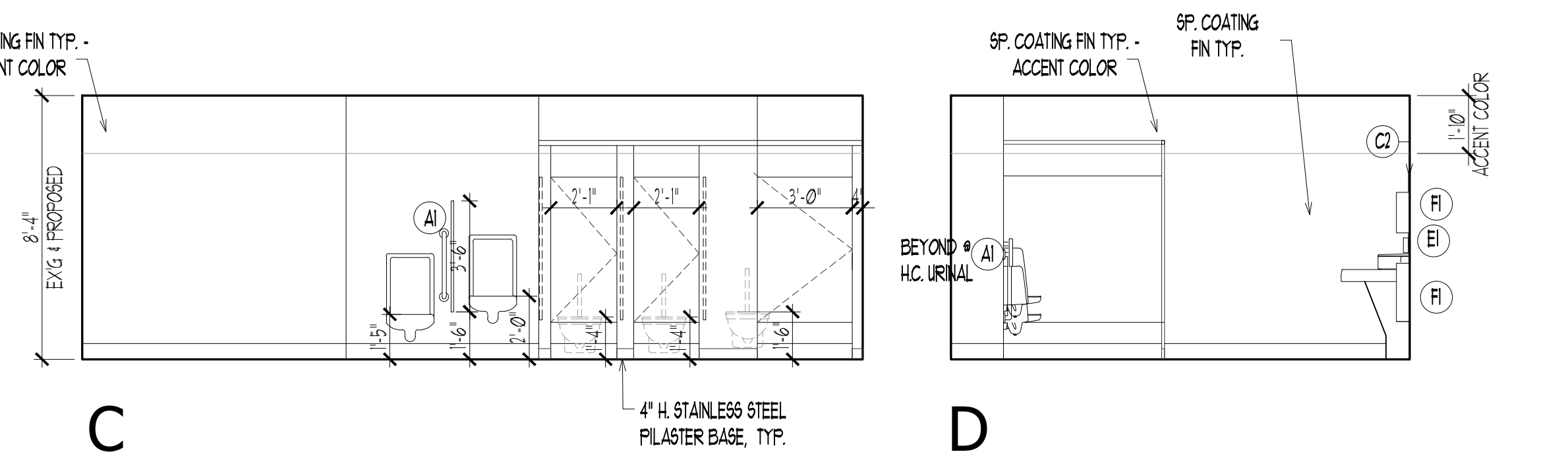
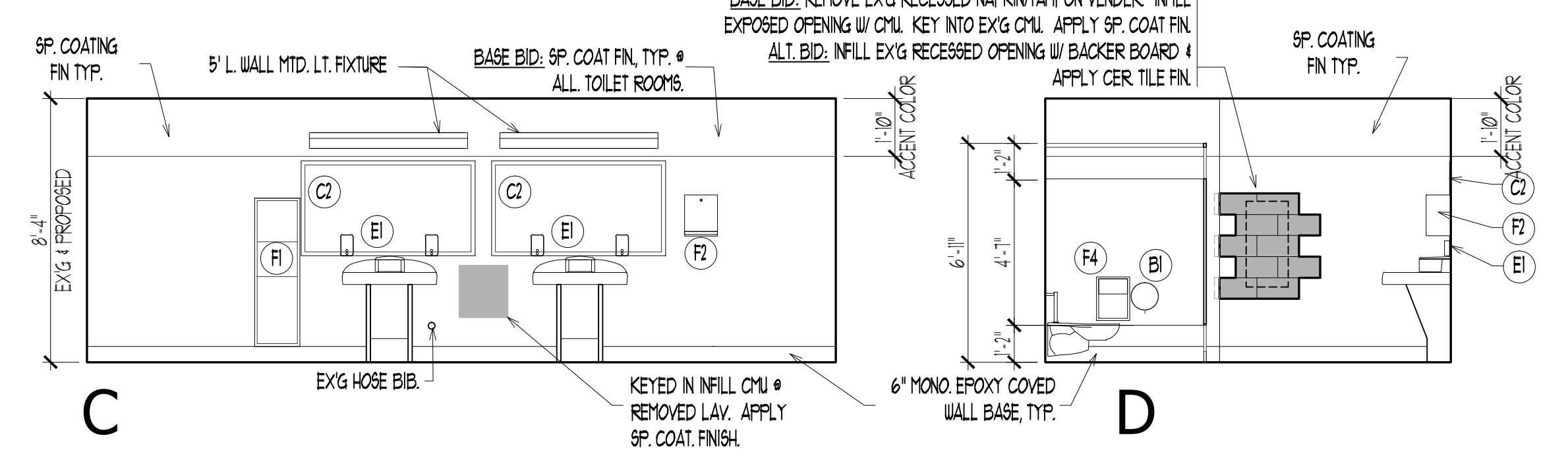
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A4.1 NEW WORK PARTIAL R.C.P.
300A BOY'S TOILET RM 1/4"=1'-0"



3
A4.1 INTERIOR ELEVATIONS
200C GIRL'S TOILET RM 1/4"=1'-0"



4
A4.1 INTERIOR ELEVATIONS
300A BOY'S TOILET RM 1/4"=1'-0"



DATE	No.	REVISION

LOT 3

STATE PLAN NO. 2850-060-18-1000

CONTRACT 5 - TOILET ROOM RENOVATIONS

LUMBERTON TOWNSHIP SCHOOL DISTRICT

LUMBERTON MIDDLE SCHOOL

ISSUED FOR BID

BURLINGTON COUNTY

TOWNSHIP OF LUMBERTON

BOARD PRESIDENT, CHRIS STRUBB

SUPERINTENDENT, JOSEPH LAMONICA

Louis J. DeLorenzo, III, PP, President
New Jersey Lic. # 2410000800

Linda M. Wrensch, AA, Vice President
New Jersey Lic. # 2410000800

Drew C. Diaper, AA, Vice President
New Jersey Lic. # 2410000800

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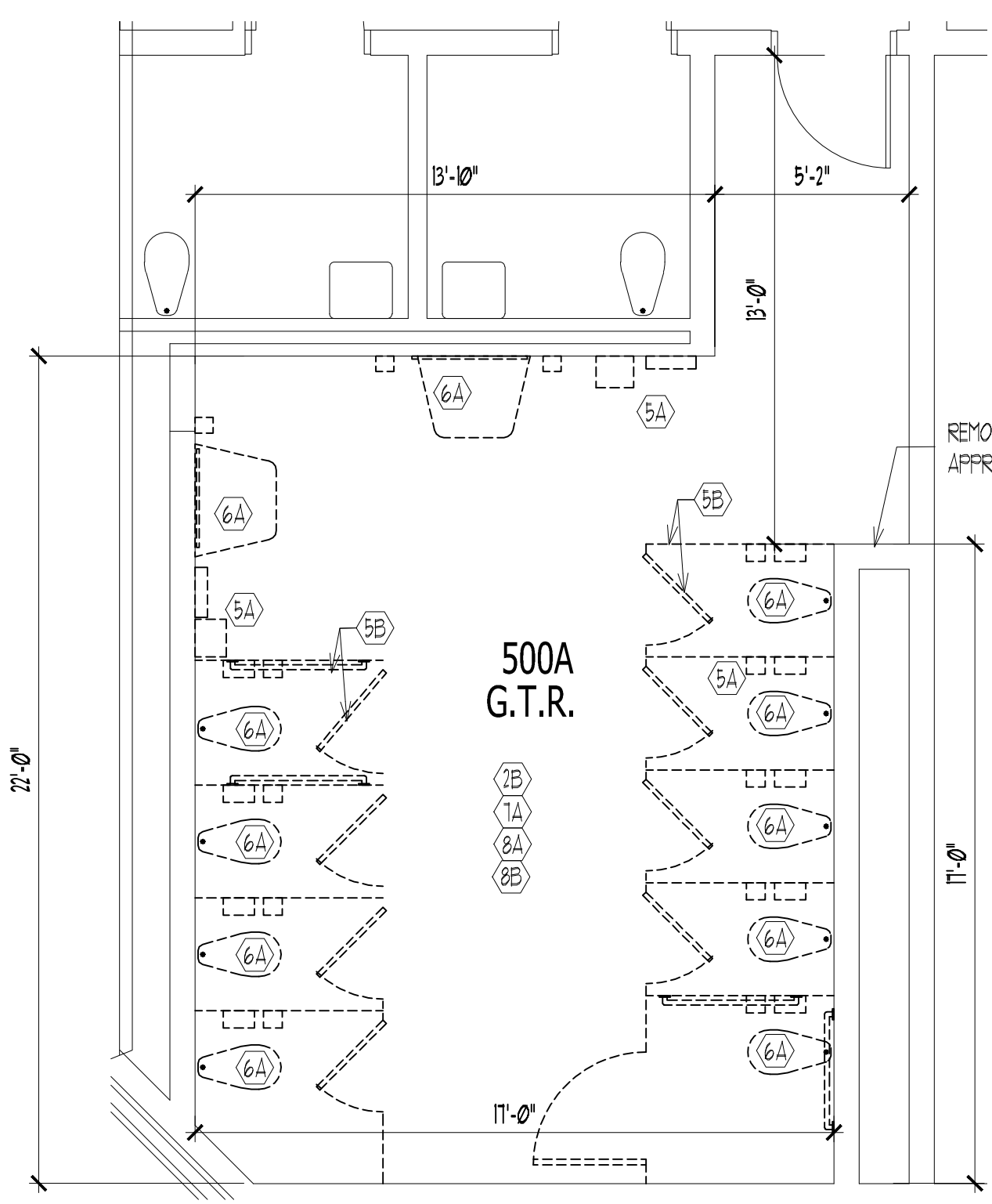
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DATE: 9/3/19

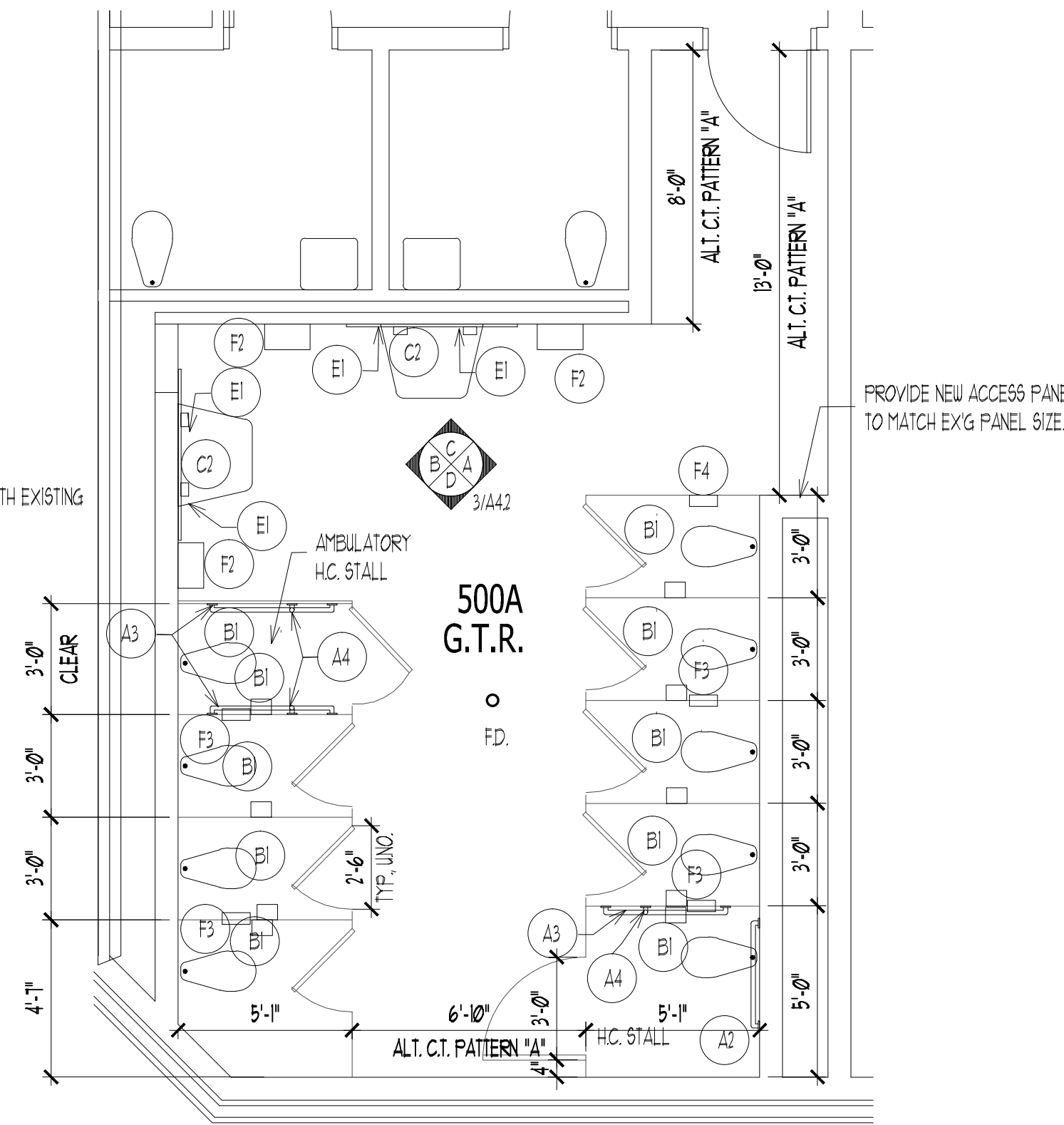
SHEET TITLE:

ENLARGED PLANS AND ELEVATIONS

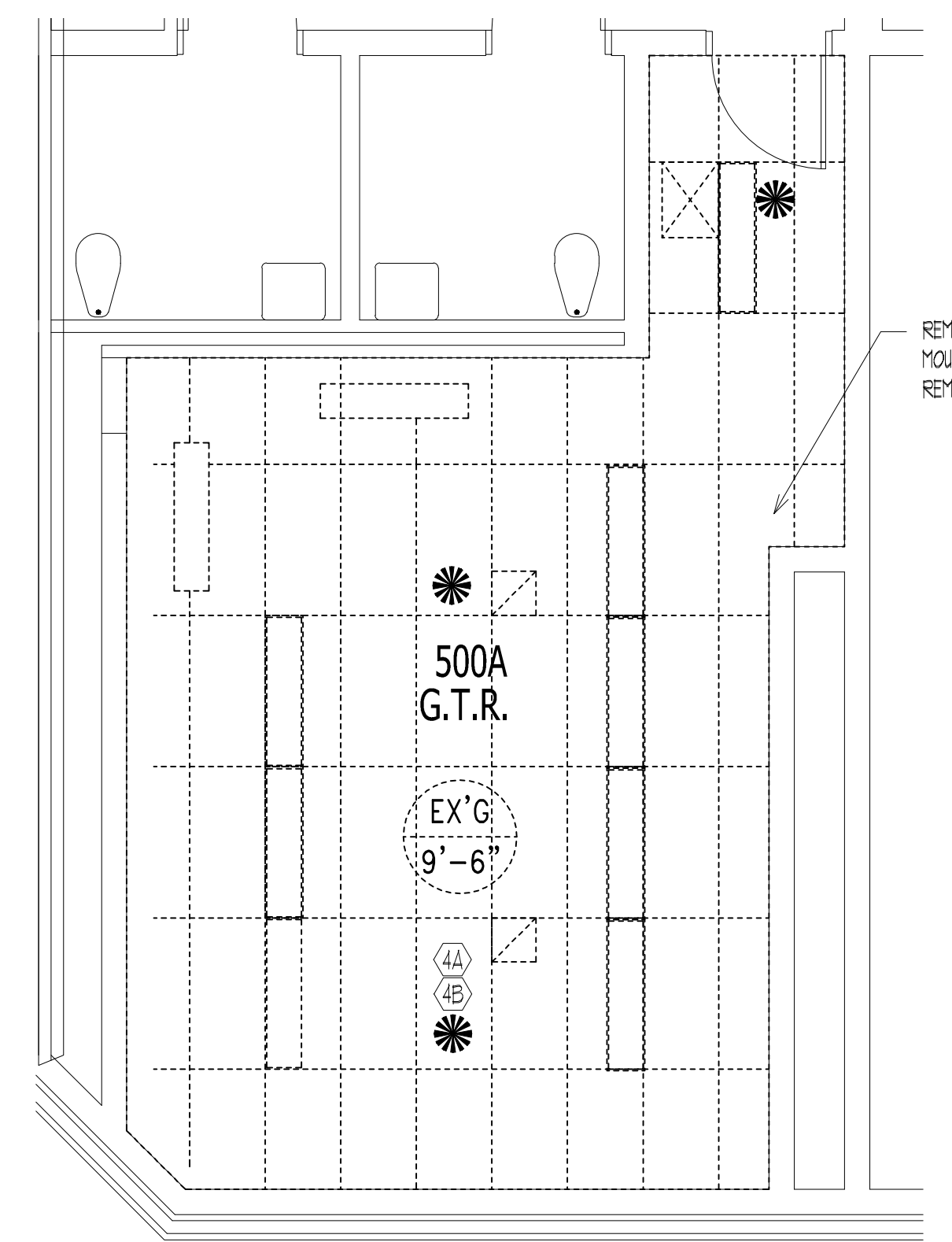
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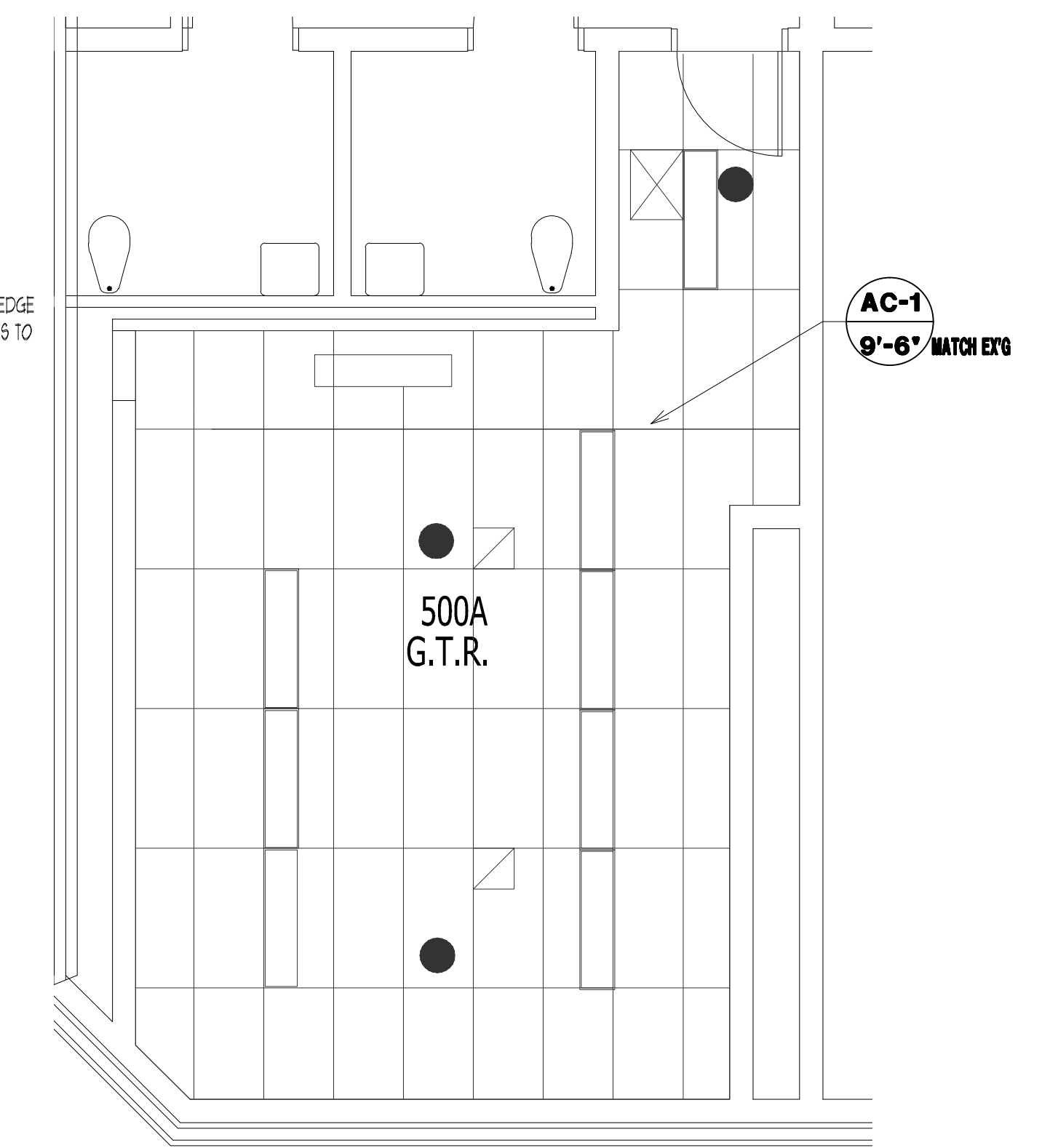
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A4.2 **DEMOLITION PARTIAL FL. PLAN**
500A GIRL'S TOILET RM 1/4"=1'-0"



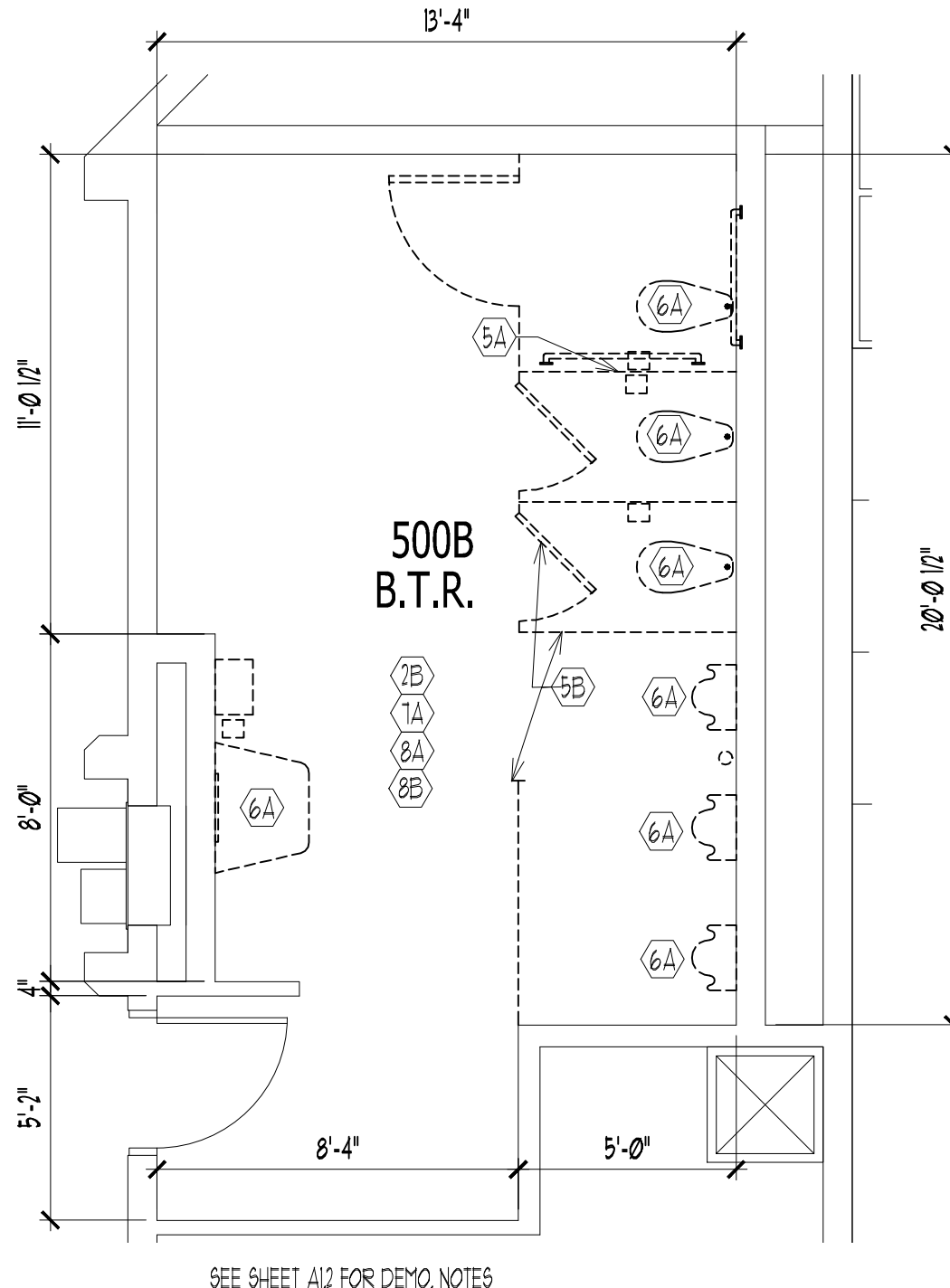
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A4.2 **NEW WORK PARTIAL FL. PLAN**
500A GIRL'S TOILET RM 1/4"=1'-0"



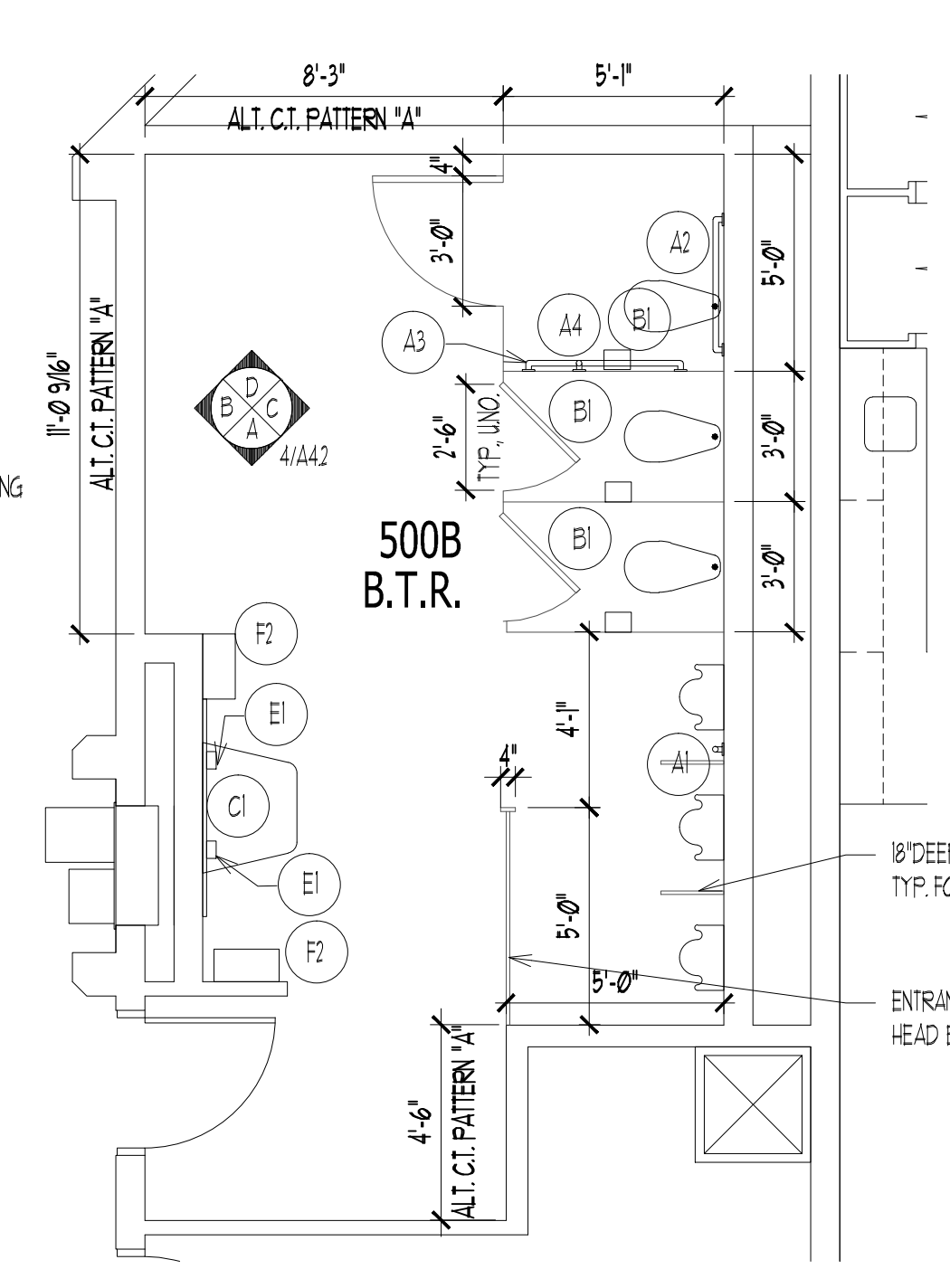
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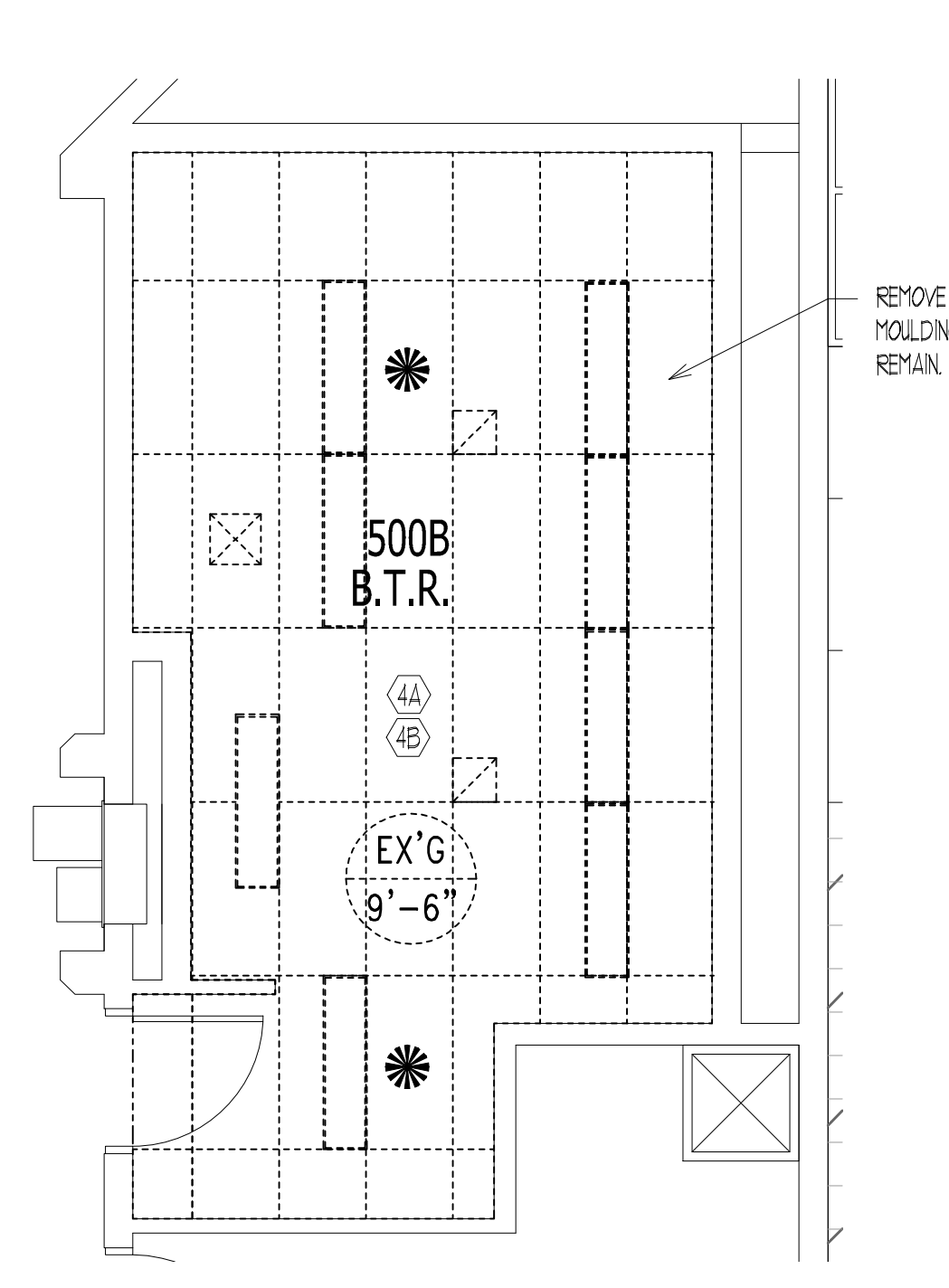
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500A GIRL'S TOILET RM 1/4"=1'-0"



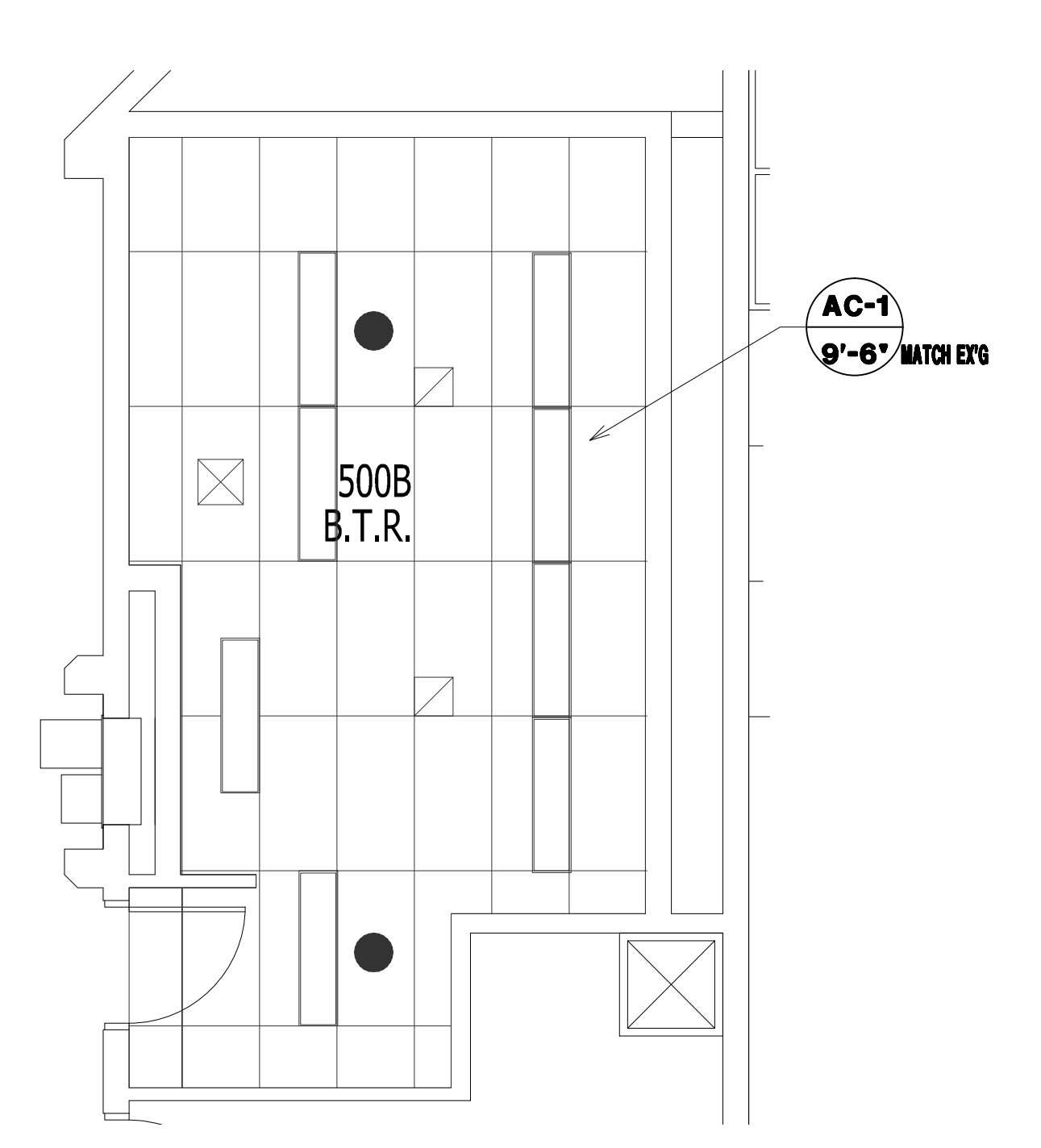
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A4.2 **DEMOLITION PARTIAL FL. PLAN**
500B BOY'S TOILET RM 1/4"=1'-0"



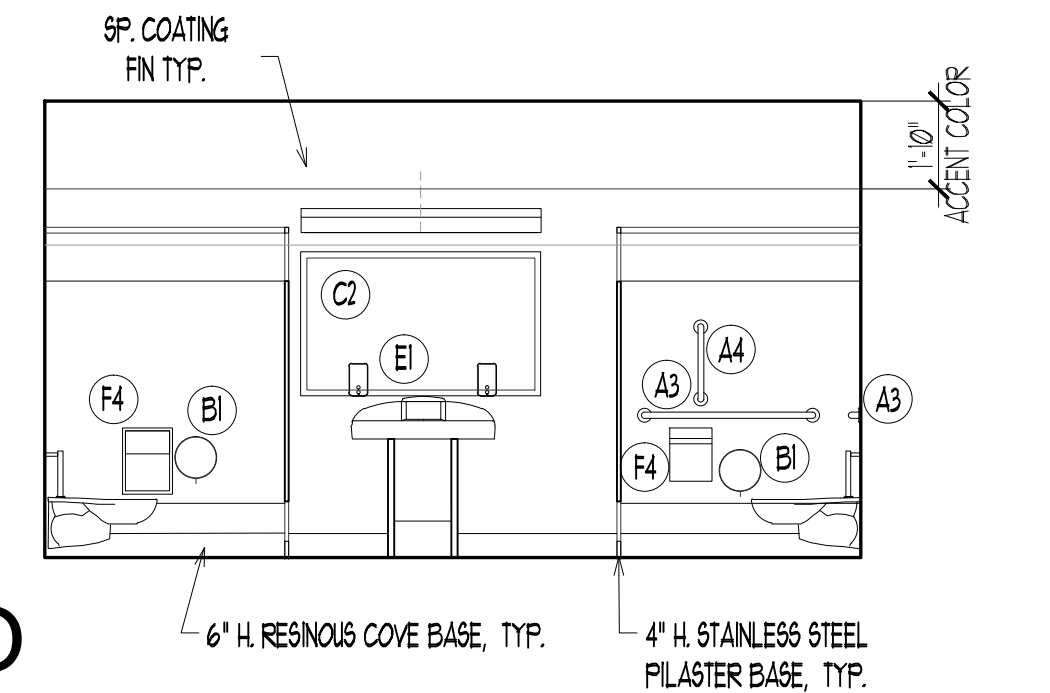
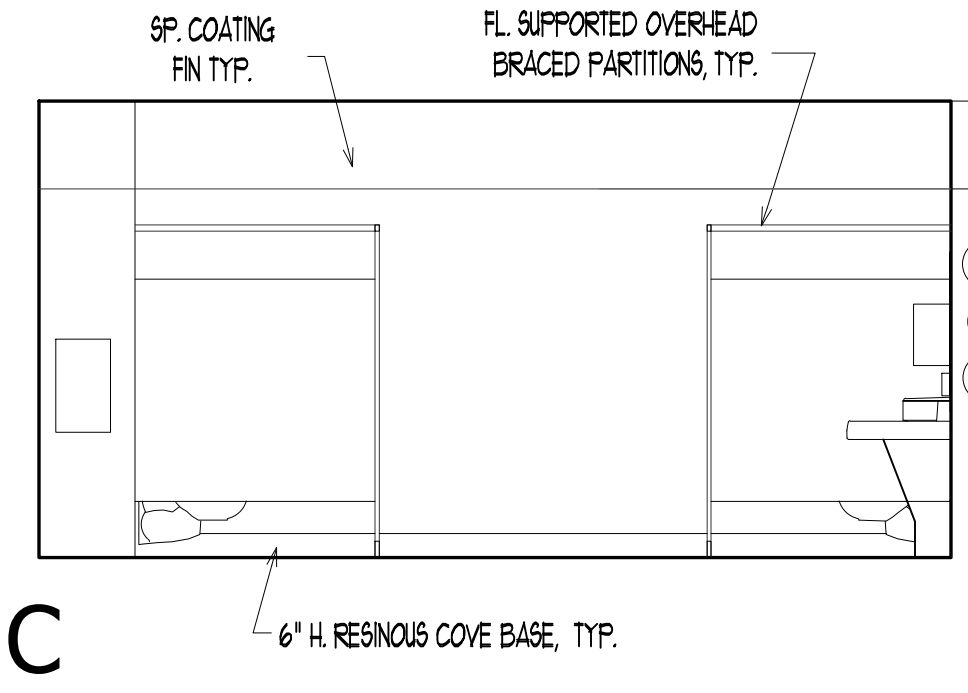
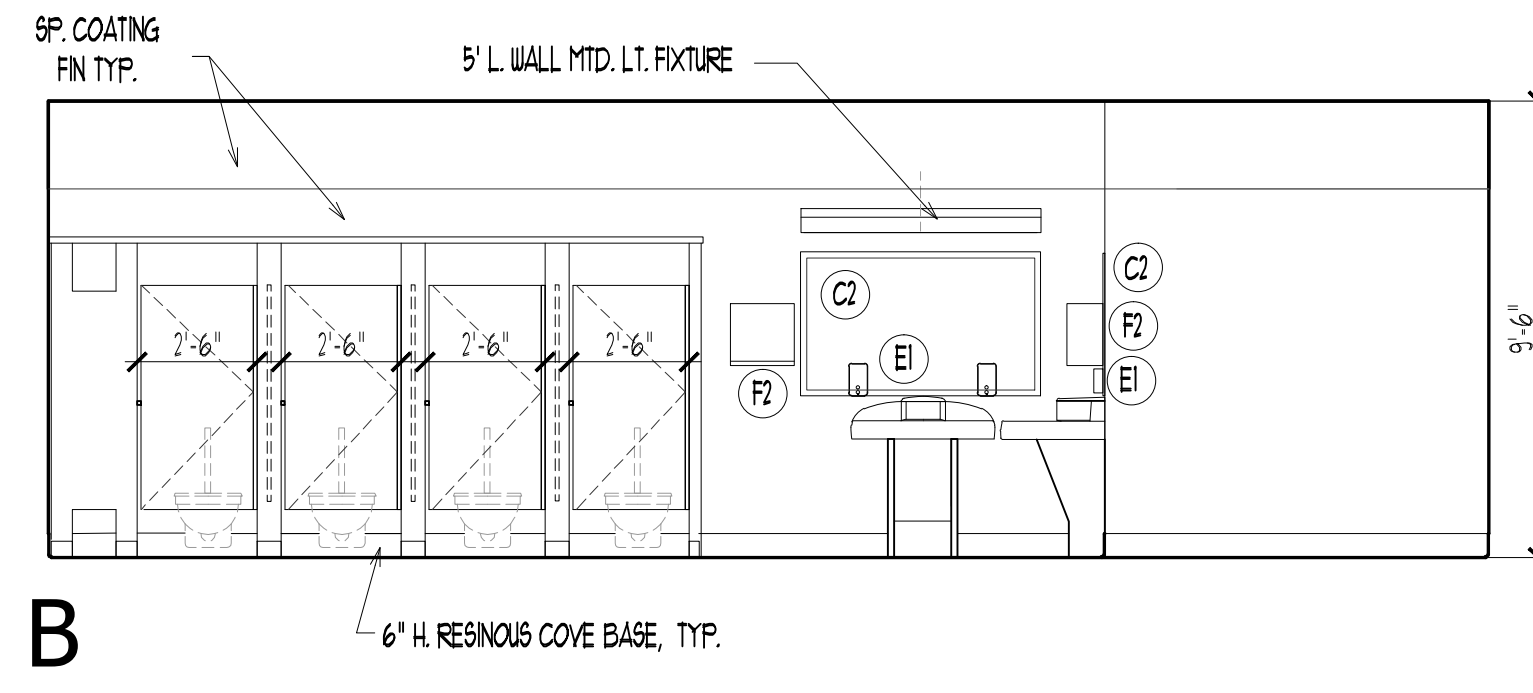
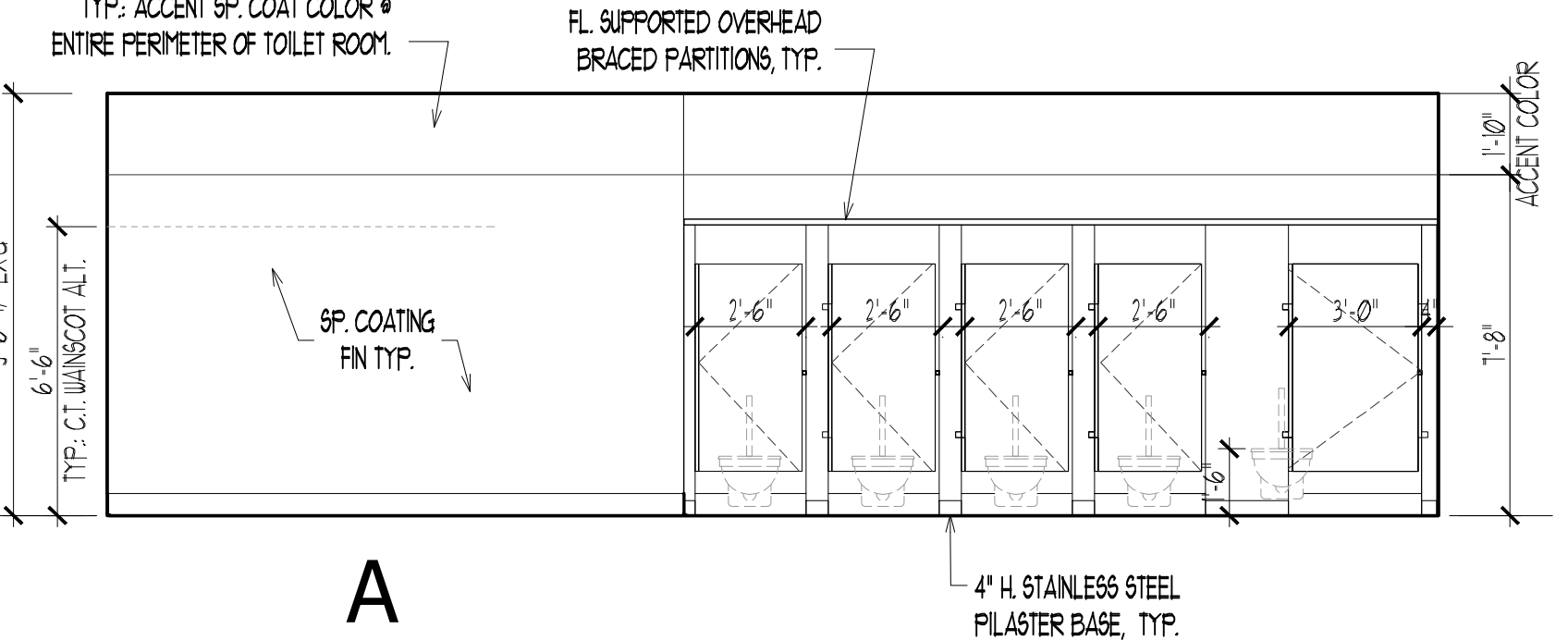
2B
A4.2 **NEW WORK PARTIAL FL. PLAN**
500B BOY'S TOILET RM 1/4"=1'-0"



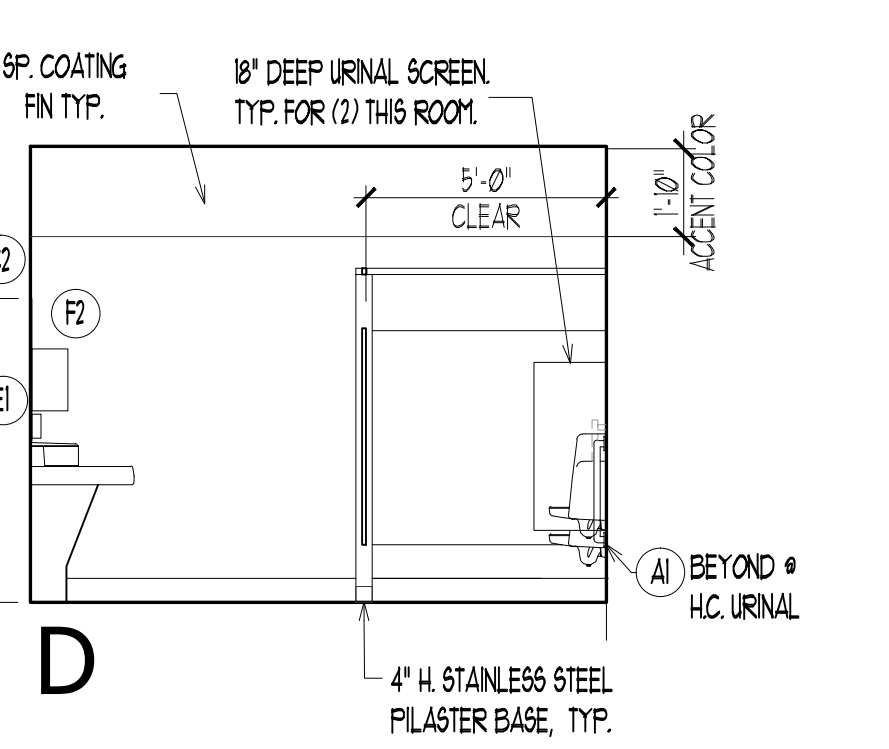
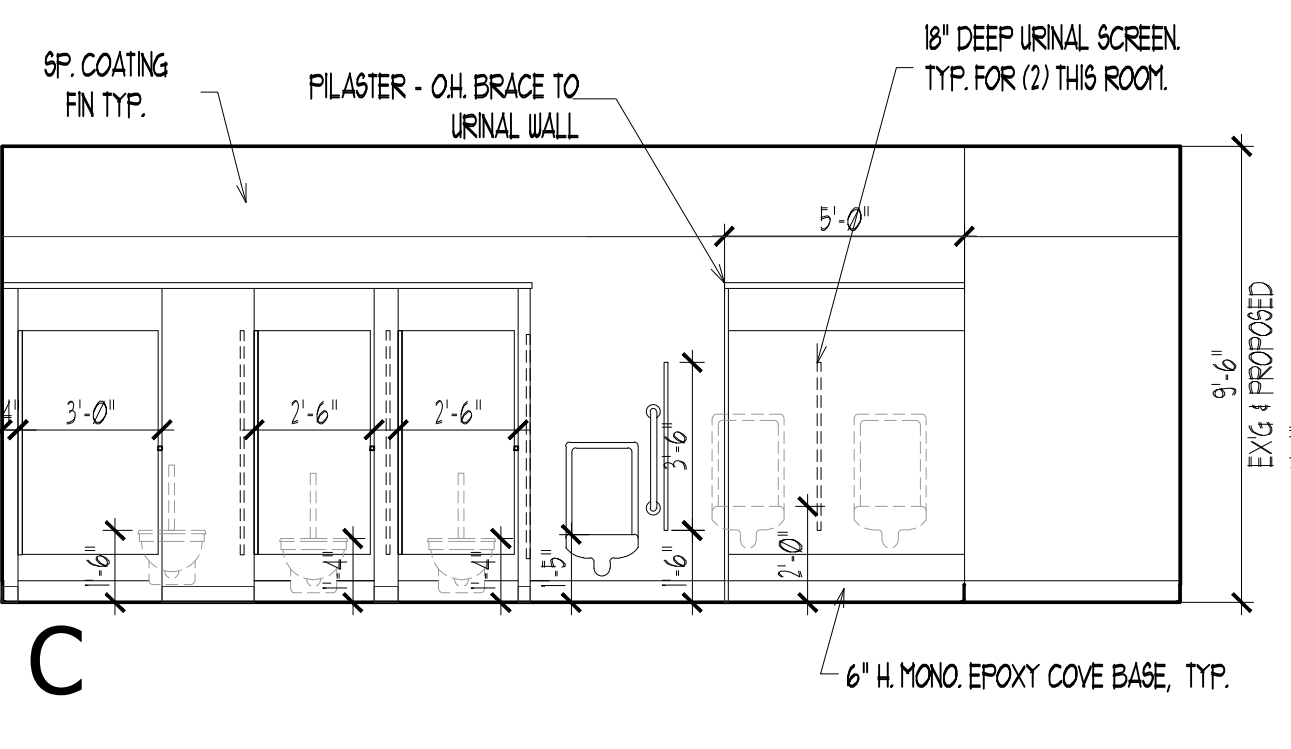
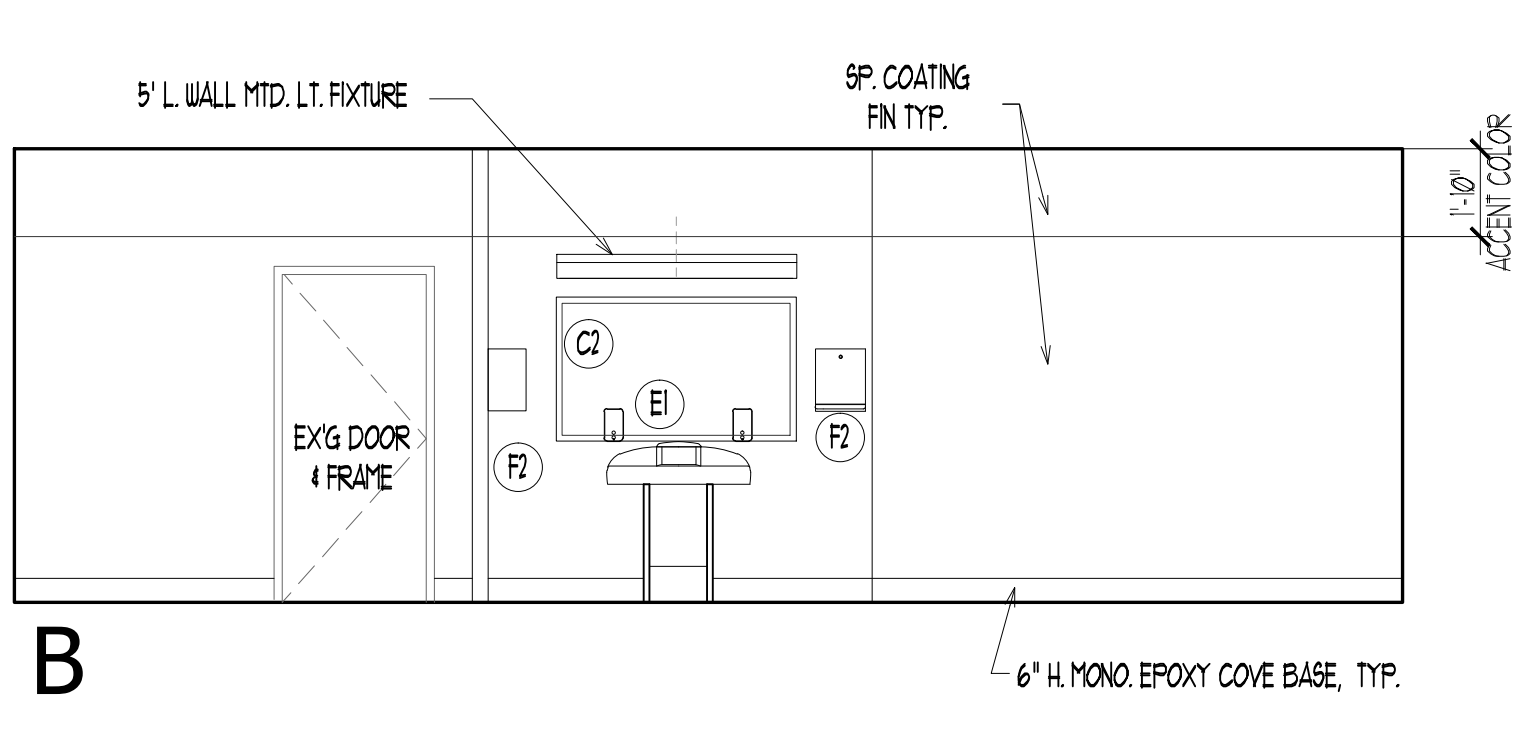
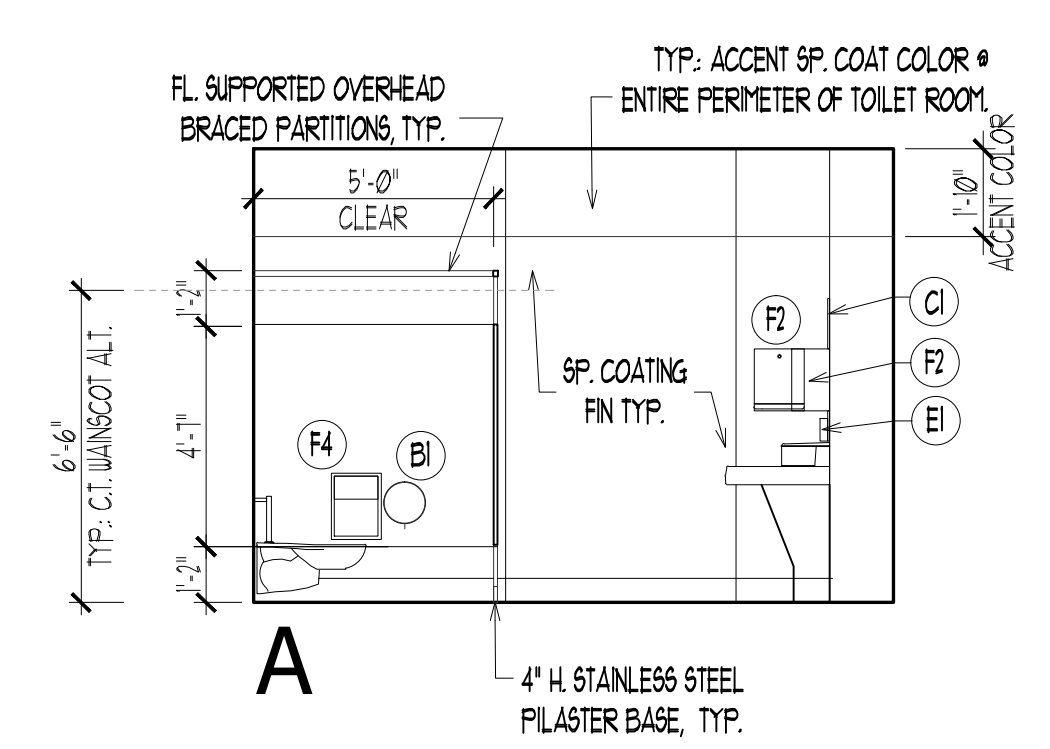
2C
A4.2 **NEW WORK PARTIAL R.C.P.**
500B BOY'S TOILET RM 1/4"=1'-0"



2D
A4.2 **NEW WORK PARTIAL R.C.P.**
500B BOY'S TOILET RM 1/4"=1'-0"



3
A4.2 **INTERIOR ELEVATIONS**
500A GIRL'S TOILET RM 1/4"=1'-0"



4
A4.2 **INTERIOR ELEVATIONS**
500B BOY'S TOILET RM 1/4"=1'-0"

DATE	No.	REVISION

STATE PLAN NO. 2850-060-18-1000
CONTRACT 5 - TOILET ROOM RENOVATIONS
LUMBERTON TOWNSHIP SCHOOL DISTRICT
LUMBERTON MIDDLE SCHOOL
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TOWNSHIP OF LUMBERTON

LOT 3
SUPERINTENDENT, JOSEPH LAMONIERE
BOARDS PRESIDENT, CHRIS STRIMBERG

BLOCK 19.56
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New Jersey Lic. # 2101000800
Louis J. DeLacso, AIA, PP, President
New Jersey Lic. # 2101000100, Professional Planner # 2100000000

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SCALE: AS NOTED DRAWN BY: tv
COMM. No. 7990 CHECKED BY: ded
DATE: 9/3/19

ENLARGED PLANS AND ELEVATIONS
ROOM PLANS
SHEET No. **A4.2**

MECHANICAL DEMOLITION – SHEET NOTES

- ① EXISTING EXHAUST DUCT TO REMAIN. REMOVE AND DISCARD EXISTING EXHAUST REGISTER. PROVIDE NEW REGISTER IN SAME LOCATION.
- ② EXISTING TRANSFER DUCT TO REMAIN. REMOVE AND DISCARD EXISTING GRILLE. PROVIDE NEW GRILLE IN SAME LOCATION.

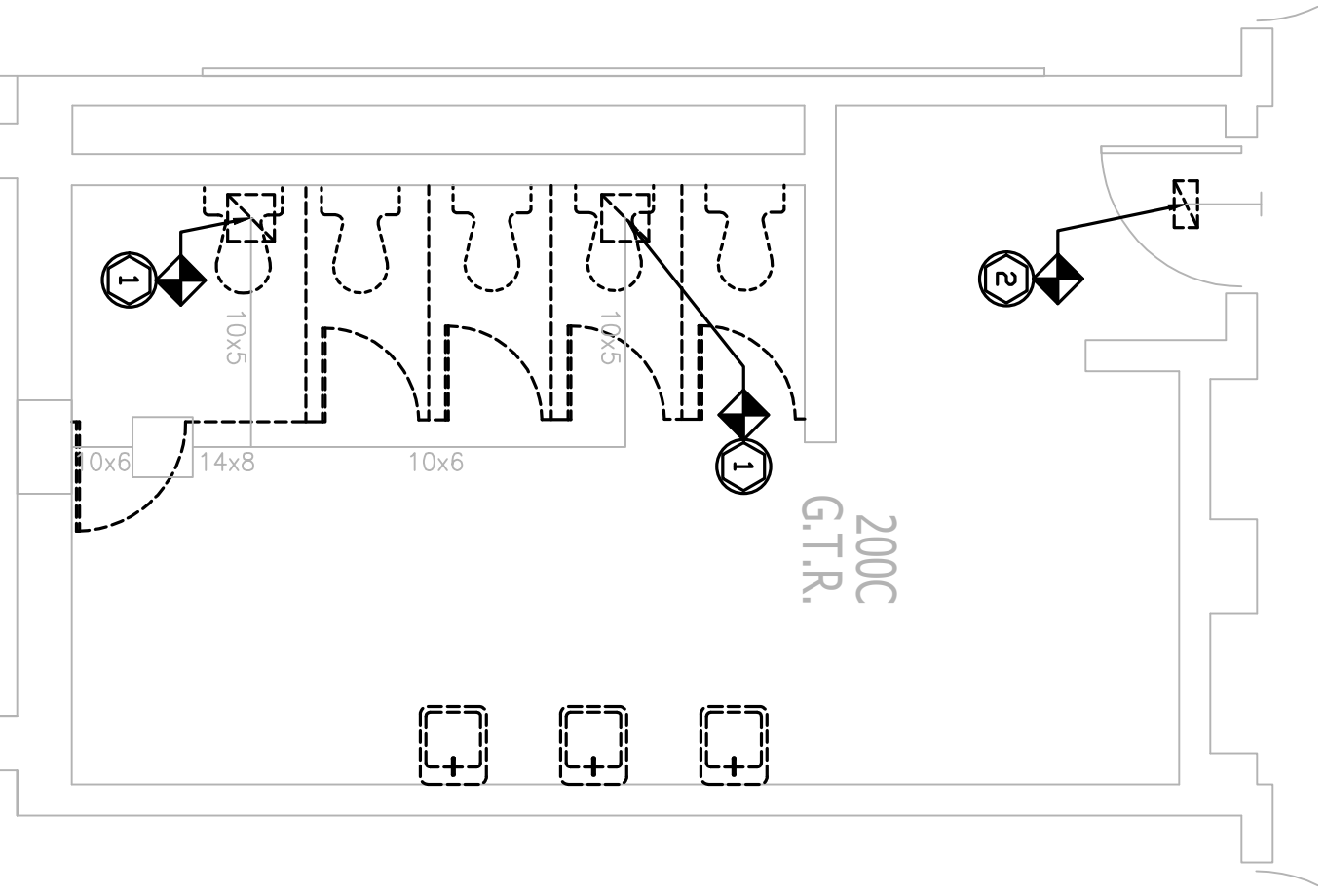
GENERAL MECHANICAL DEMOLITION NOTES

APPLICABLE TO ALL PLANS AS REQUIRED

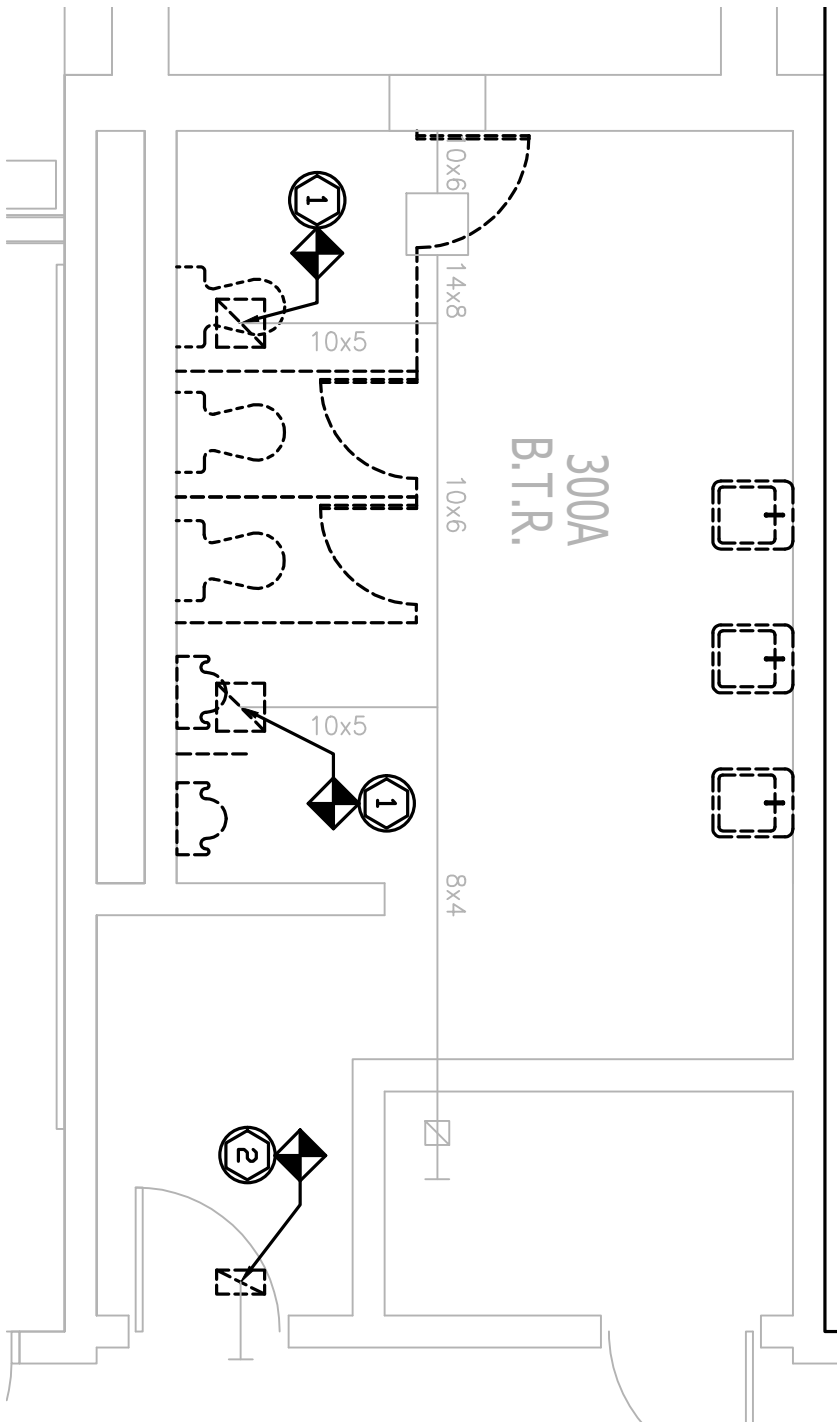
1. REMOVE EXISTING MECHANICAL UNION AND RESERVATION ISOLATION VALVE (WHERE APPLICABLE). CORROSION RESISTANT MECHANICAL UNION AND VALVE REPLACEMENT WITH NEW WORK MECHANICAL PLANS AND SPECIFICATIONS.
2. REMOVE EXISTING PIPING AND VALVES AS REQUIRED. CORROSION RESISTANT PIPING WITH NEW WORK MECHANICAL PLANS AND SPECIFICATIONS.
3. REMOVE EXISTING MECHANICAL UNITS. REMOVE AND DISCARD EXISTING MECHANICAL PLANS AND SPECIFICATIONS.
4. REMOVE EXISTING MECHANICAL UNIT. MAINTAIN REMAINING PIPING IF FEEDING OTHER EQUIPMENT/UNITS.
5. REMOVE EXISTING HERMETICALLY SEALED WIRING, BOXES AND CONDUIT.

GENERAL NOTES:

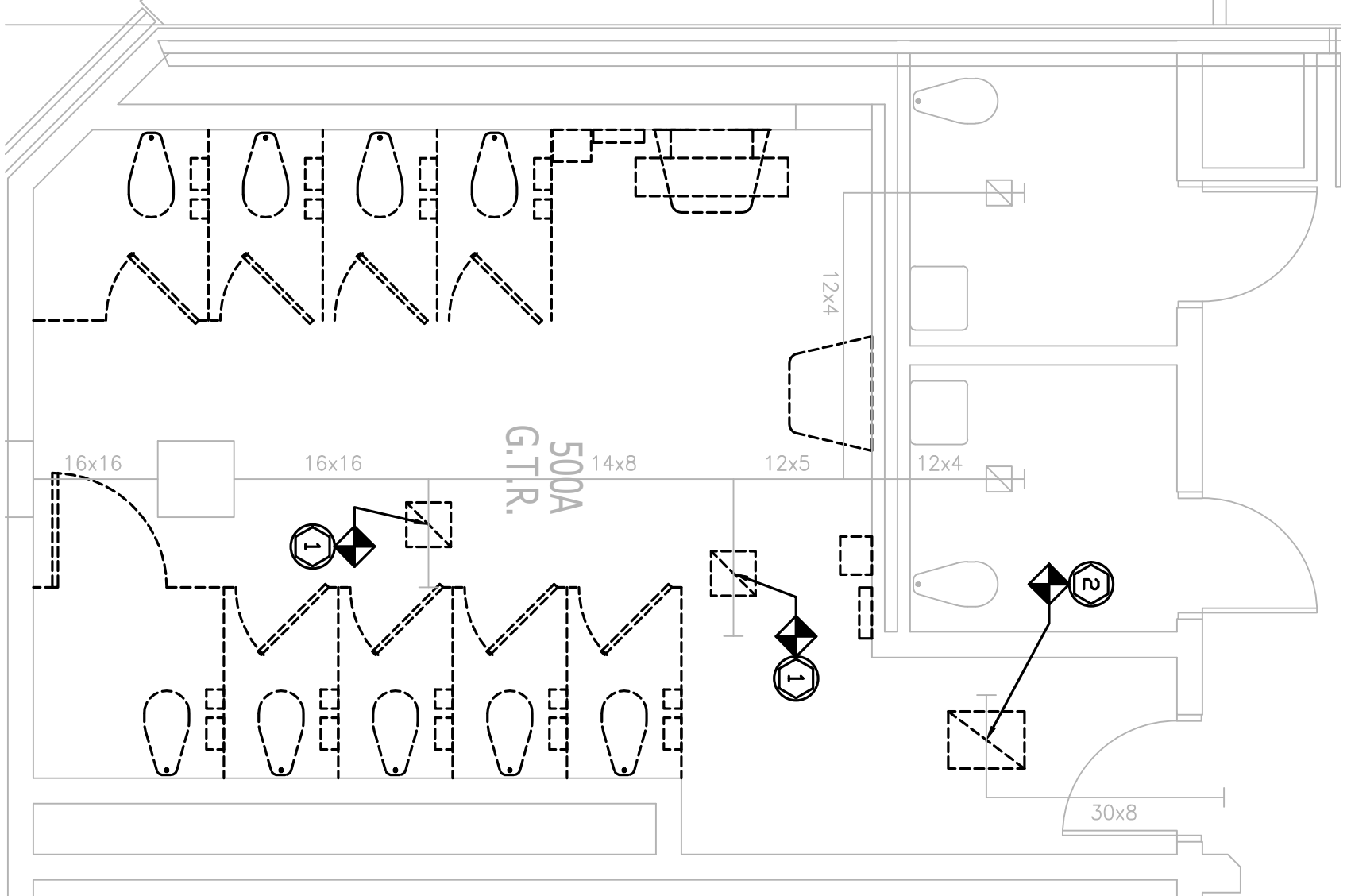
- a. EQUIPMENT/DEVICE TO BE REMOVED IS SHOWN AS DASHED (EQUIPMENT/DEVICE TO BE REUSED/REMAIN IS SHOWN AS SOLID).
- b. REMOVE EXISTING MECHANICAL UNITS AND CORROSION RESISTANT PIPING COMPLETELY OPERATIONAL WITH EXCEPTION TO SCHEDULE UNLESS OTHERWISE NOTED, AND IF NOT INDICATED BY GENERAL DEMOLITION OR NEW WORK EXISTING MECHANICAL EQUIPMENT SHALL REMAIN COMPLETELY OPERATIONAL WITH EXCEPTION TO SCHEDULE.
- c. APPLICABLE MECHANICAL SPECIFICATIONS SHALL BE COORDINATED WITH THE OWNER'S SCHEDULE NO LESS THAN SEVEN (7) DAYS IN ADVANCE.



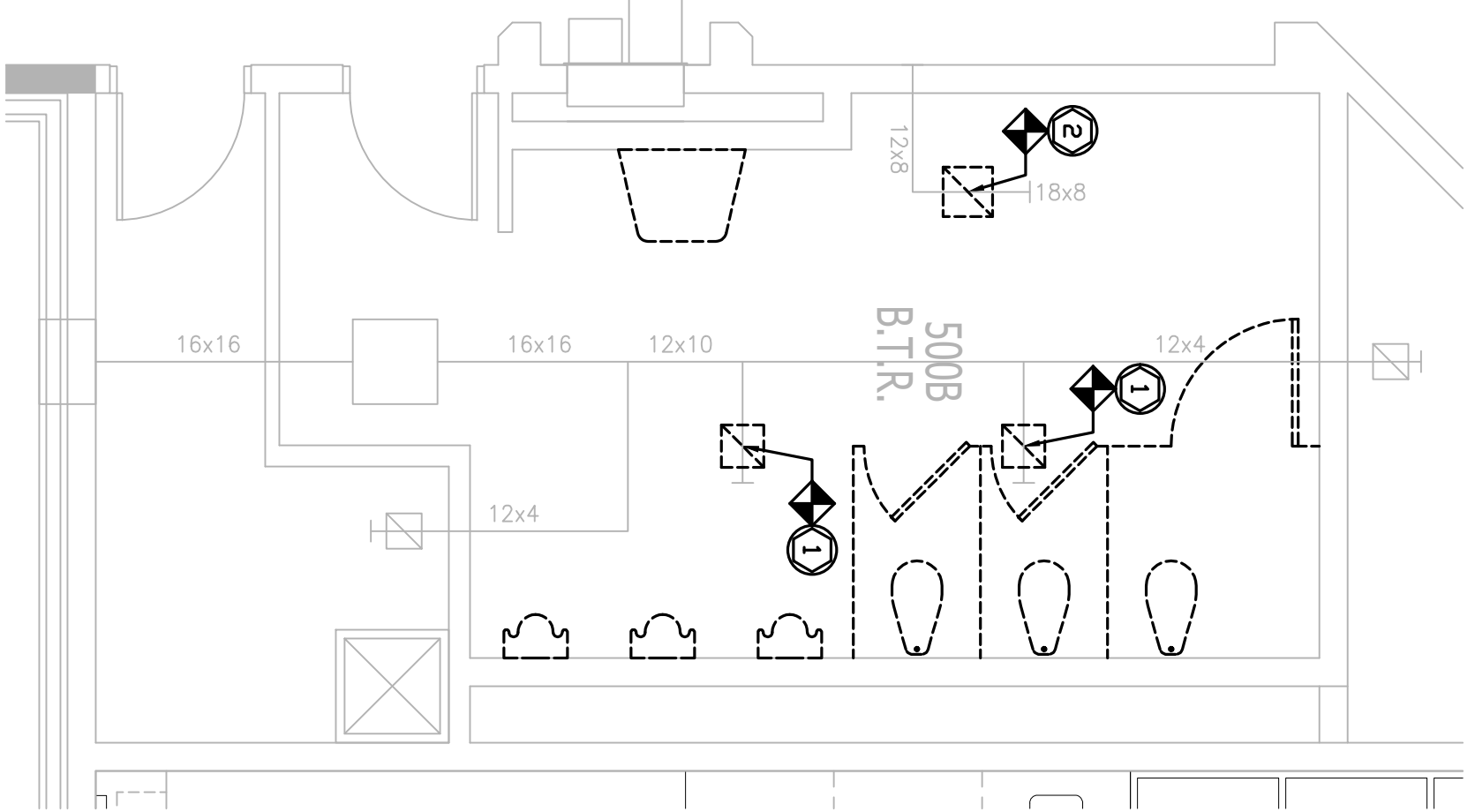
1 MECHANICAL DEMOLITION PLAN
1/4"=1'-0"



2 MECHANICAL DEMOLITION PLAN
1/4"=1'-0"



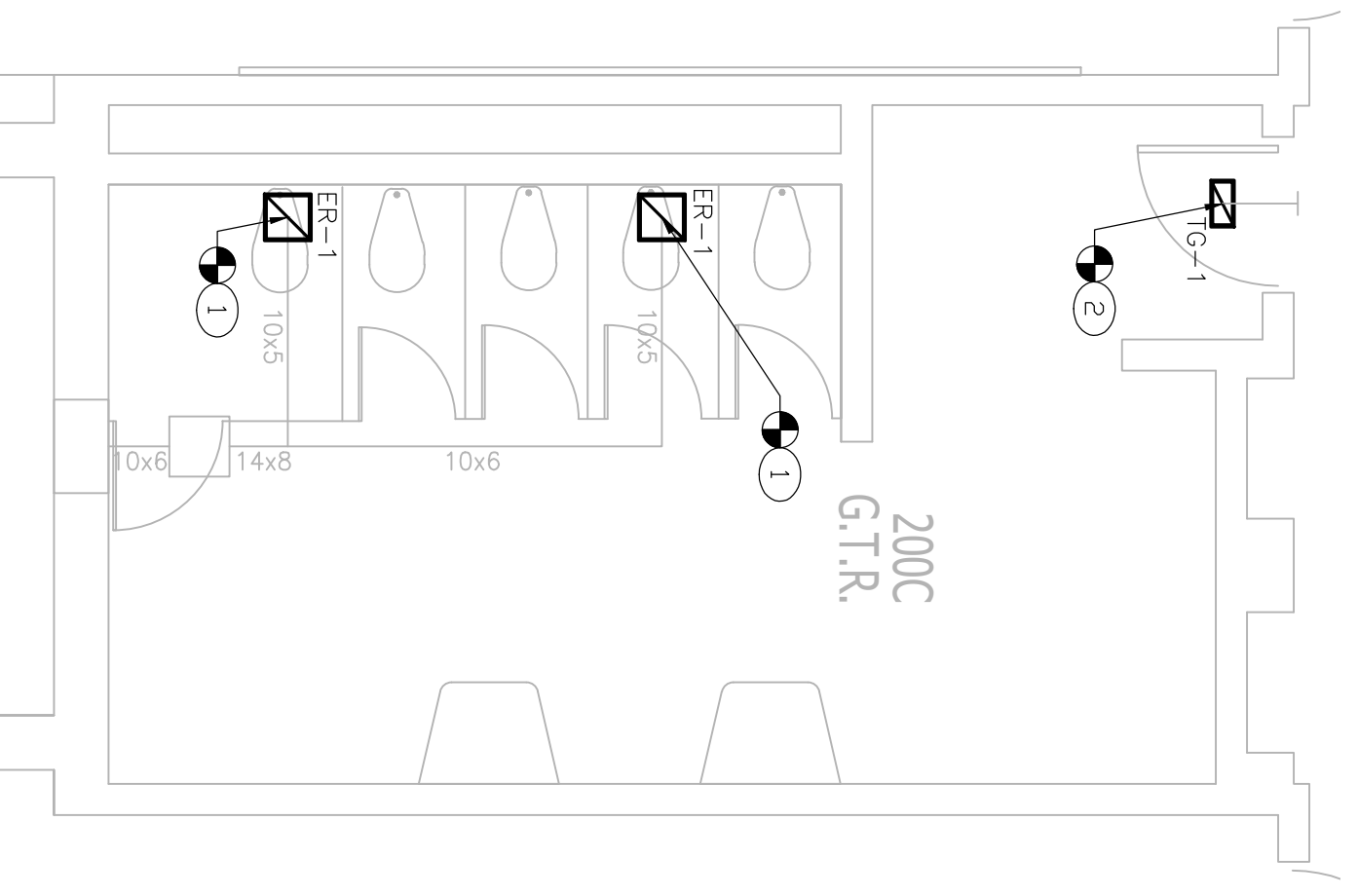
3 MECHANICAL DEMOLITION PLAN
1/4"=1'-0"



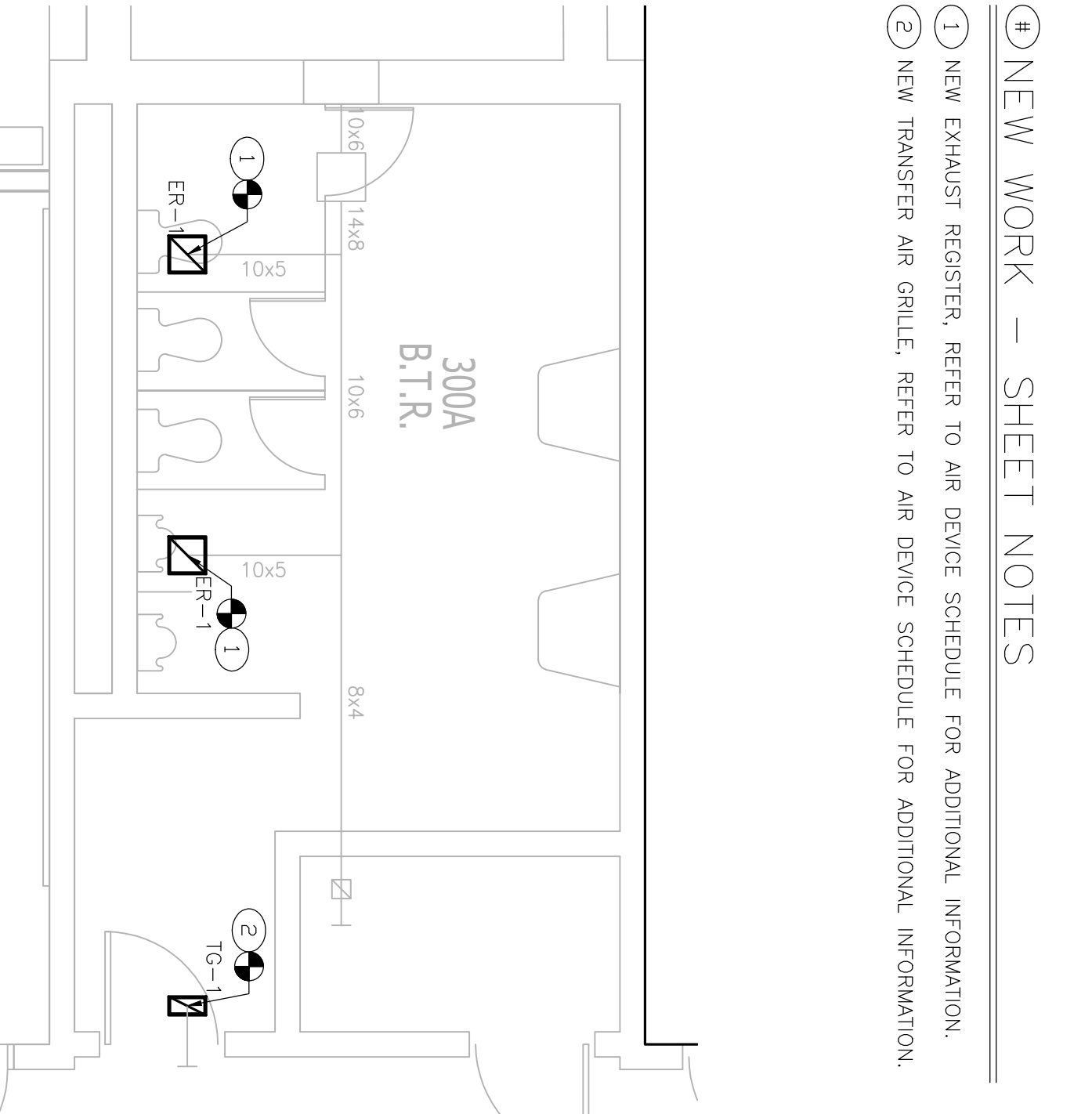
4 MECHANICAL DEMOLITION PLAN
1/4"=1'-0"

AIR DEVICE SCHEDULE

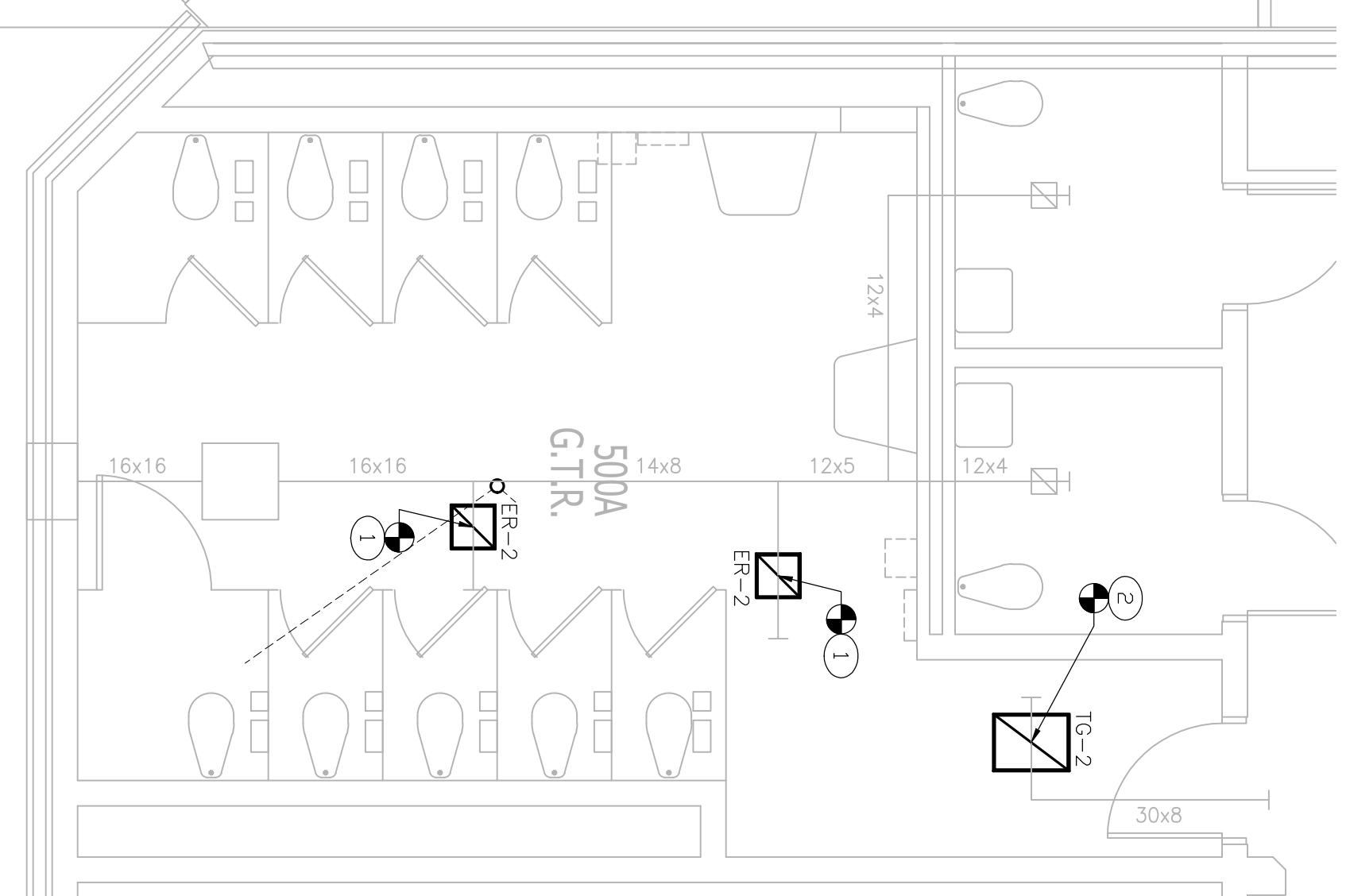
- CEILING EXHAUST REGISTER (ER-1)
BASIS OF DESIGN: TITUS HMC
SPECIFICATIONS: 12X12, NC LESS THAN 30. CONTRACTOR TO FIELD VERIFY EXISTING SIZE PRIOR TO ORDERING AND INSTALLING.
- CEILING EXHAUST REGISTER (ER-2)
BASIS OF DESIGN: TITUS HMC
SPECIFICATIONS: 24X18, NC LESS THAN 30. CONTRACTOR TO FIELD VERIFY EXISTING SIZE PRIOR TO ORDERING AND INSTALLING.
- CEILING TRANSFER GRILLE (TG-1)
BASIS OF DESIGN: TITUS HMC
SPECIFICATIONS: 12X6, NC LESS THAN 30. CONTRACTOR TO FIELD VERIFY EXISTING SIZE PRIOR TO ORDERING AND INSTALLING.
- CEILING TRANSFER GRILLE (TG-2)
BASIS OF DESIGN: TITUS HMC
SPECIFICATIONS: 24X18, NC LESS THAN 30. CONTRACTOR TO FIELD VERIFY EXISTING SIZE PRIOR TO ORDERING AND INSTALLING.
- CEILING TRANSFER GRILLE (TG-3)
BASIS OF DESIGN: TITUS HMC
SPECIFICATIONS: 12X12, NC LESS THAN 30. CONTRACTOR TO FIELD VERIFY EXISTING SIZE PRIOR TO ORDERING AND INSTALLING.



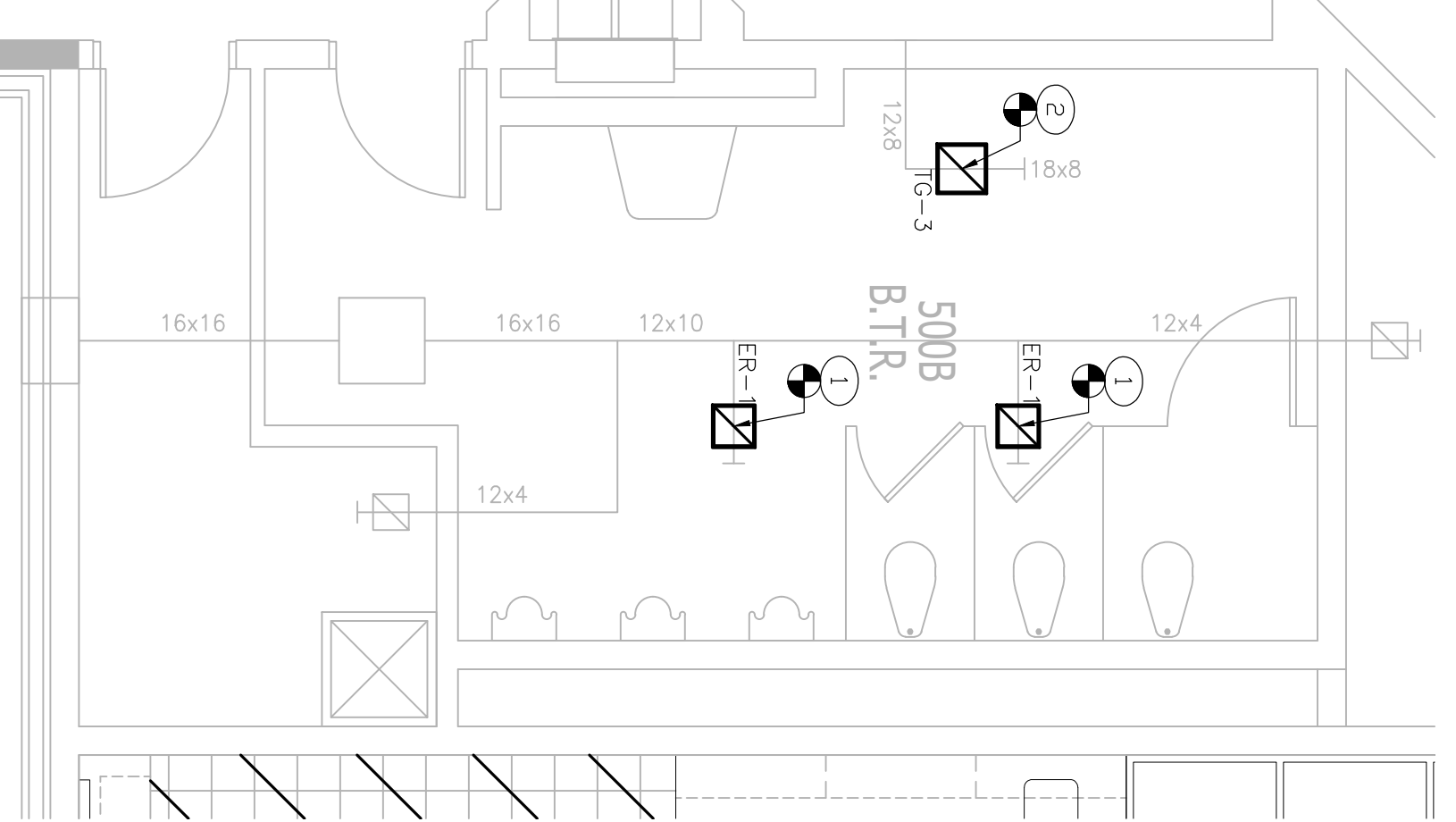
5 MECHANICAL NEW WORK PLAN
1/4"=1'-0"



6 MECHANICAL NEW WORK PLAN
1/4"=1'-0"



7 MECHANICAL NEW WORK PLAN
1/4"=1'-0"



8 MECHANICAL NEW WORK PLAN
1/4"=1'-0"

GENERAL MECHANICAL NOTES

1. MECHANICAL CONTRACTOR SHALL COORDINATE ALL CONDENSATE DRAIN AND DOMESTIC WATER CONNECTIONS WITH LICENSED PLUMBER.
2. COORDINATE ALL ELECTRICAL CONNECTIONS WITH ELECTRICAL CONTRACTOR. FIELD VERIFY ALL WAREDATE DATA OF MECHANICAL EQUIPMENT AND VALUATE ELECTRICAL INTERCONNECTIONS ARE SIZE ADAPTABLE TO DATA OF MECHANICAL EQUIPMENT PER MANUFACTURER AND MECHANICAL CONTRACTOR RECOMMENDATIONS FOR MECHANICAL EQUIPMENT.
3. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ALL ARCHITECTURAL PLANS DETAIL LOWER ELEVATIONS AND EXACT LOWER LOCATIONS ON BUILDING EXTERIOR.
4. GENERAL CONTRACTOR TO SUPPLY AND INSTALL ALL LOADERS.
5. GENERAL CONTRACTOR TO PROVIDE CONDENSATE OVERFLOW SWITCHES IN ALL DRAIN PANS AND WHEN TO A/C SYSTEM FOR MONITORING. CONDENSATE OVERFLOW SWITCHES SHALL GENERATE AN A/C ALARM WHEN COOLING CAPACITIES EXHAUSTED AND REMOVE CEILING INSTALLED MECHANICAL UNITS WITH FINISH AND COLOR OF ELECTRICAL CONNECTIONS FOR ALL MECHANICAL EQUIPMENT UNLESS NOTED OTHERWISE.
6. MECHANICAL CONTRACTOR SHALL FIELD VERIFY THAT ALL MECHANICAL EQUIPMENT LISTS CONFORMANCE FOR SINGLE POINT CONNECTIONS ARE ADEQUATELY SIZED TO ACCOMMODATE SPECIFIED SERVICE SEQUENCE FEEDER SIZE WITH ELECTRICAL CONTRACTOR AND ELECTRICAL DRAWINGS TO DETERMINE EQUIPMENT MECHANICAL CONTRACTOR SHALL PROVIDE CONDENSATE OVERFLOW SWITCHES IN ALL DRAIN PANS AND WHEN TO A/C SYSTEM FOR MONITORING. CONDENSATE OVERFLOW SWITCHES SHALL GENERATE AN A/C ALARM WHEN COOLING CAPACITIES EXHAUSTED AND REMOVE CEILING INSTALLED MECHANICAL UNITS WITH FINISH AND COLOR OF ELECTRICAL CONNECTIONS FOR ALL MECHANICAL EQUIPMENT UNLESS NOTED OTHERWISE.
7. MECHANICAL CONTRACTOR SHALL FIELD VERIFY THAT ALL MECHANICAL EQUIPMENT LISTS CONFORMANCE FOR SINGLE POINT CONNECTIONS ARE ADEQUATELY SIZED TO ACCOMMODATE SPECIFIED SERVICE SEQUENCE FEEDER SIZE WITH ELECTRICAL CONTRACTOR AND ELECTRICAL DRAWINGS TO DETERMINE EQUIPMENT MECHANICAL CONTRACTOR SHALL PROVIDE CONDENSATE OVERFLOW SWITCHES IN ALL DRAIN PANS AND WHEN TO A/C SYSTEM FOR MONITORING. CONDENSATE OVERFLOW SWITCHES SHALL GENERATE AN A/C ALARM WHEN COOLING CAPACITIES EXHAUSTED AND REMOVE CEILING INSTALLED MECHANICAL UNITS WITH FINISH AND COLOR OF ELECTRICAL CONNECTIONS FOR ALL MECHANICAL EQUIPMENT UNLESS NOTED OTHERWISE.
8. MECHANICAL CONTRACTOR SHALL INCLUDE ALL EQUIPMENT SHOWN IN BASE BID DOCUMENTS UNLESS NOTED OTHERWISE. INCLUDE ALL ROOF DRAINAGE EQUIPMENT SHOWN IN BASE BID DOCUMENTS UNLESS NOTED OTHERWISE. MECHANICAL CONTRACTOR SHALL PROVIDE ALL STARTERS, DISCONNECTS, AND VARIABLE FREQUENCY DRIVES PER MECHANICAL SPECIFICATIONS.
9. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSULATING ALL DUCTWORK AND HYDROIC PIPING PER MECHANICAL SPECIFICATIONS.
10. MECHANICAL CONTRACTOR SHALL PROVIDE ALL UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF UTILITIES WITHIN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. IDENTIFY ALL UNMARKED UTILITY LINES AS NECESSARY TO COORDINATE AND COMPLETE WORK.
11. MECHANICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY FIELD CONNECTIONS AND COORDINATE WITH ARCHITECT AND GENERAL CONTRACTOR AS REQUIRED.
12. MECHANICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY FIELD CONNECTIONS AND COORDINATE WITH ARCHITECT AND GENERAL CONTRACTOR AS REQUIRED.
13. ALL OUTDOOR AIR INPAGES AND RELIEF/EXHAUST AIR VENTS SHALL BE LOCATED WITH A MINIMUM SEPARATION OF ALL OUTDOOR AIR INPAGES WITH SANITARY VENTS, SOIL STACKS, AND OTHER CONTAMINANT CONTAINING RELIEF LOCATIONS TO ENSURE 10 FEET OF SEPARATION DISTANCE IS MAINTAINED.

BOARD PRESIDENT, CHRIS OTTERHOFF

SUPERINTENDENT, JOSEPH LANGOSKI

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STATE PLAN NO. 2850-080-18-1000
CONTRACT 5 - TOILET ROOM RENOVATIONS
LUMBERTON TOWNSHIP SCHOOL DISTRICT
LUMBERTON MIDDLE SCHOOL
ISSUED FOR BID
TOWNSHIP OF LUMBERTON
BURLINGTON COUNTY

Block 19.56
Drew C. Dingler, AIA, Vice President
New Jersey Lic. # 24101082600

Linda M. Vitenti, AIA, Vice President
New Jersey Lic. # 24101082600

Lot 3
Louis J. DeLusso, AIA, PP, President
New Jersey Lic. # 24101082600

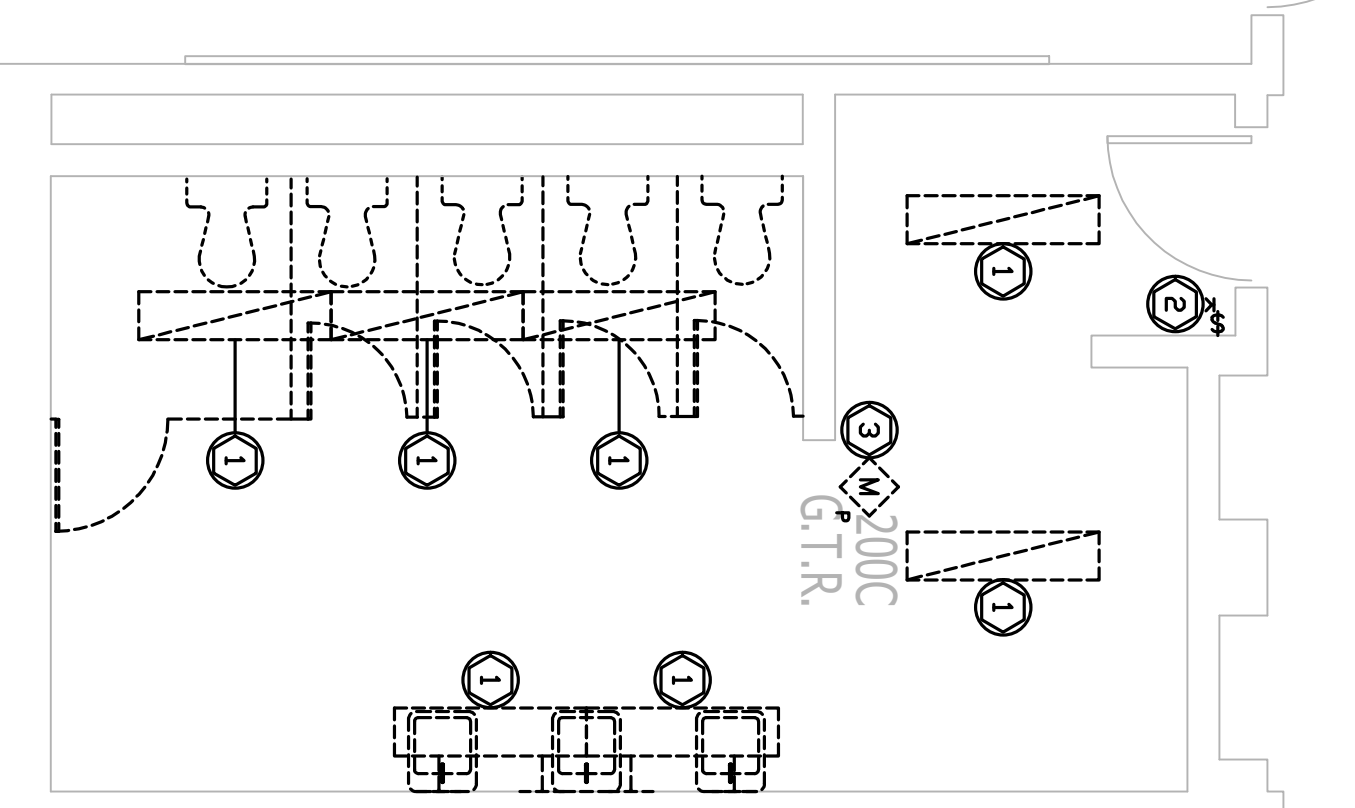
SCHAFER KENNINGER ENGINEERING GROUP
813 Route 9 South Cape May Court House, NJ 08210
8 Todd Schaefer, Professional Engineer Lic# 2503013

DATE	NO.	REVISION

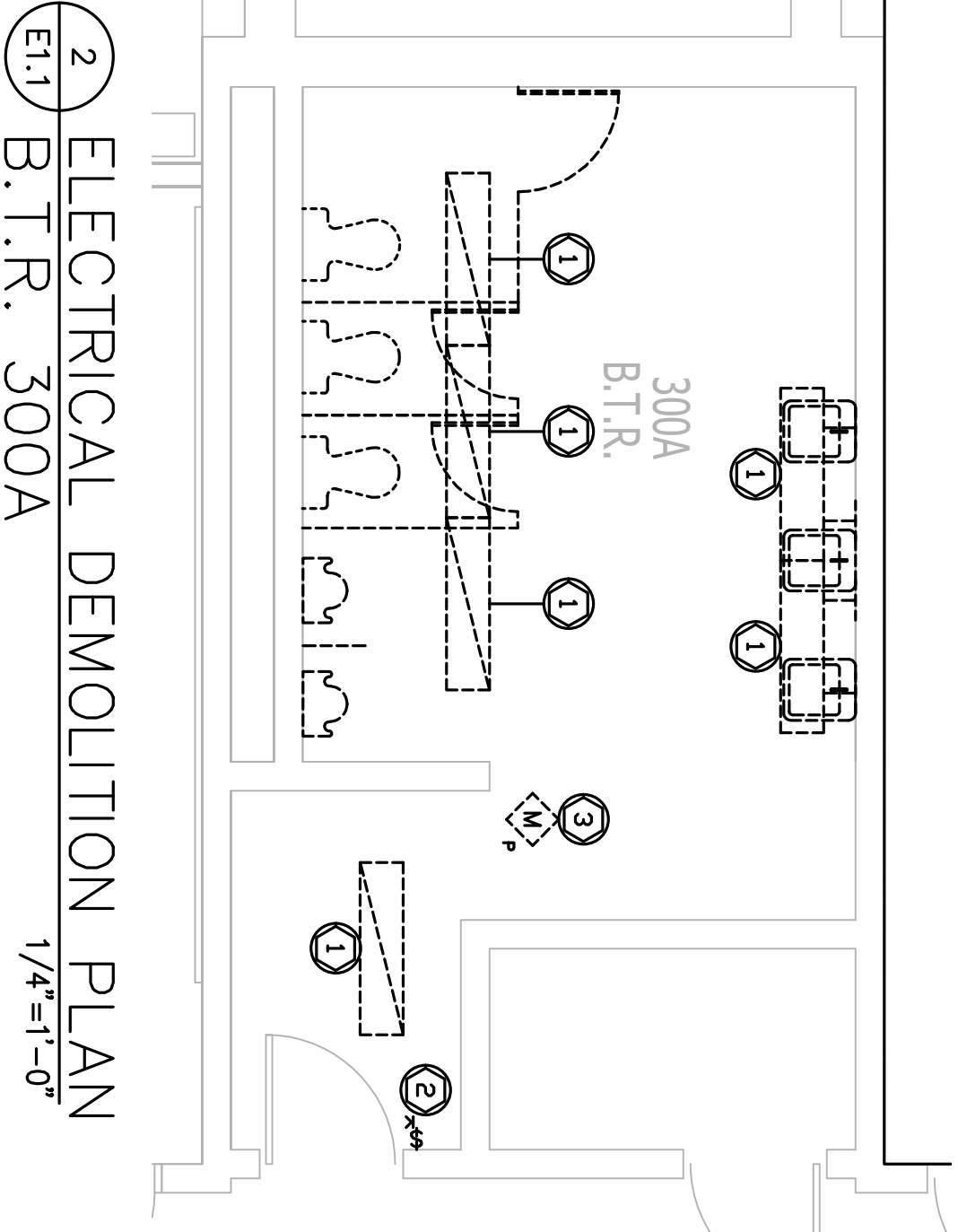
PROJECT NO. M1.1
SHEET TITLE: MEC. ANNUAL DEMOLITION AND NEW WORK TOILET ROOMS

GENERAL ELECTRICAL DEMOLITION NOTES

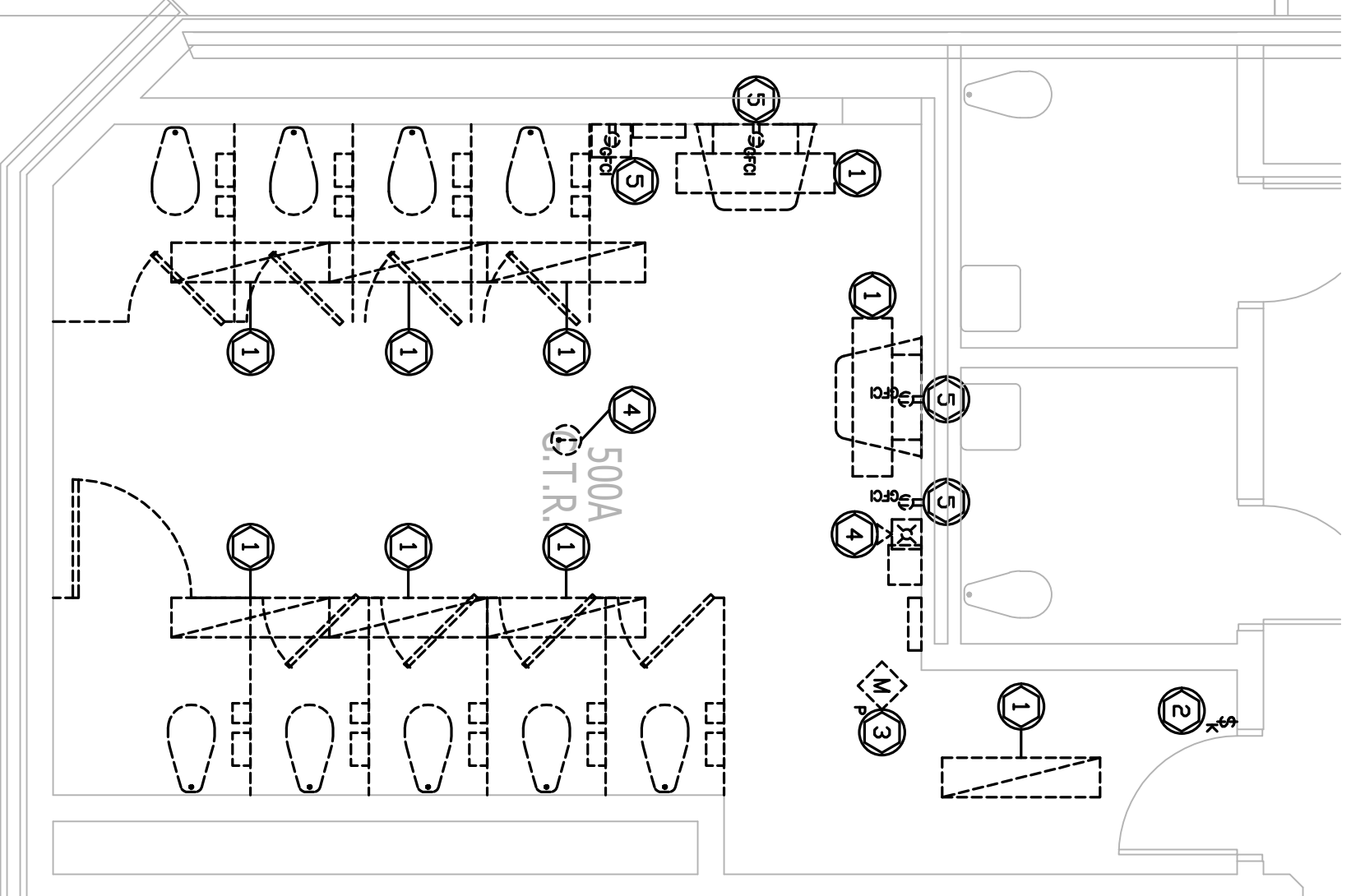
- APPLICABLE TO ALL PLANS AS REQUIRED
- REMOVE MECHANICAL EQUIPMENT FEEDER, SWITCHER, DISCONNECT WIRE AND CONDUIT FROM UNIT BACK TO SOURCE IN PANELBOARD. RE-LABEL BREAKER AS "SPARE" IF BREAKER IS NOT USED IN NEW WORK. OPERATION OF REMOVAL OF CIRCUITS.
 - REMOVE CONDUIT FROM WALL WHICH IS TO BE DEMOLISHED. REMOVE CONDUIT AND WIRING BACK TO NEAREST JOINTING BOX. RECONNECT CIRCUITRY TO MAINLINE AS APPLICABLE.
 - E.C. SHALL EXTEND EXISTING WIRING AND/OR PROVIDE NEW WIRING AS REQUIRED TO RELOCATE ANY DEVICES INDICATED ON PLANS.
 - EXISTING EQUIPMENT/DEVICE FOUND TO BE REUSABLE MAY BE REUSED/RELOCATED. ALL OTHER MATERIAL SHALL BE REMOVED FROM THE JOB SITE UNLESS OTHERWISE DIRECTED BY THE DESIGN ENGINEER. RELOCATION OF EXISTING EQUIPMENT/DEVICE TO NEW EQUIPMENT/DEVICE LOCATION, PROVIDE ADDITIONAL WIRING, CONDUIT, BOXES, ETC. IF IS NECESSARY AND REQUIRED FOR THE CONNECTOR TO RESTORE ALL CIRCUITRY FUNCTIONALITY.
 - PARTIAL BRANCH CIRCUIT WIRING DEMONSTRATING EXISTING CONTROL OR SWITCHING ON THE DRAWING IS SHOWN FOR REFERENCE ONLY, AND IS NOT TO BE CONSIDERED TO INDICATE COMPLETE CIRCUIT WIRING. THE LOCATION OF THE INTERCONNECTION OF CONTROL DEVICE, AND EQUIPMENT CONTROLLED IS DISCRETIONARY ONLY.
- GENERAL NOTES:
- EQUIPMENT/DEVICE TO BE REMOVED IS SHOWN AS DASHED/EQUIPMENT/DEVICE TO BE REUSED/REMAIN IS SHOWN AS SOLID.
 - RELOCATED DEVICES SHALL BE IDENTIFIED AS SUCH. CONTAINS RELOCATED DEVICES, OR HAVE HAD DEVICES REMOVED TO FIRST UNDISTURBED EXISTING DEVICES. THIS ENSURES THAT ALL NEW DEVICES WILL WORK WITHOUT INTERRUPTING THE EXISTING SYSTEMS.
 - UNLESS OTHERWISE NOTED AND IF NOT IMPACTED BY GENERAL DEMOLITION OR NEW WORK, EXISTING PLUMBING FIXTURES SHALL REMAIN COMPLETELY OPERATIONAL WITH EXCEPTION TO SCHEDULE SYSTEMS.
 - ALL SYSTEMS/QUOTES SHALL BE COORDINATED WITH THE OWNER'S SCHEDULE NO LESS THAN SEVEN (7) DAYS IN ADVANCE.



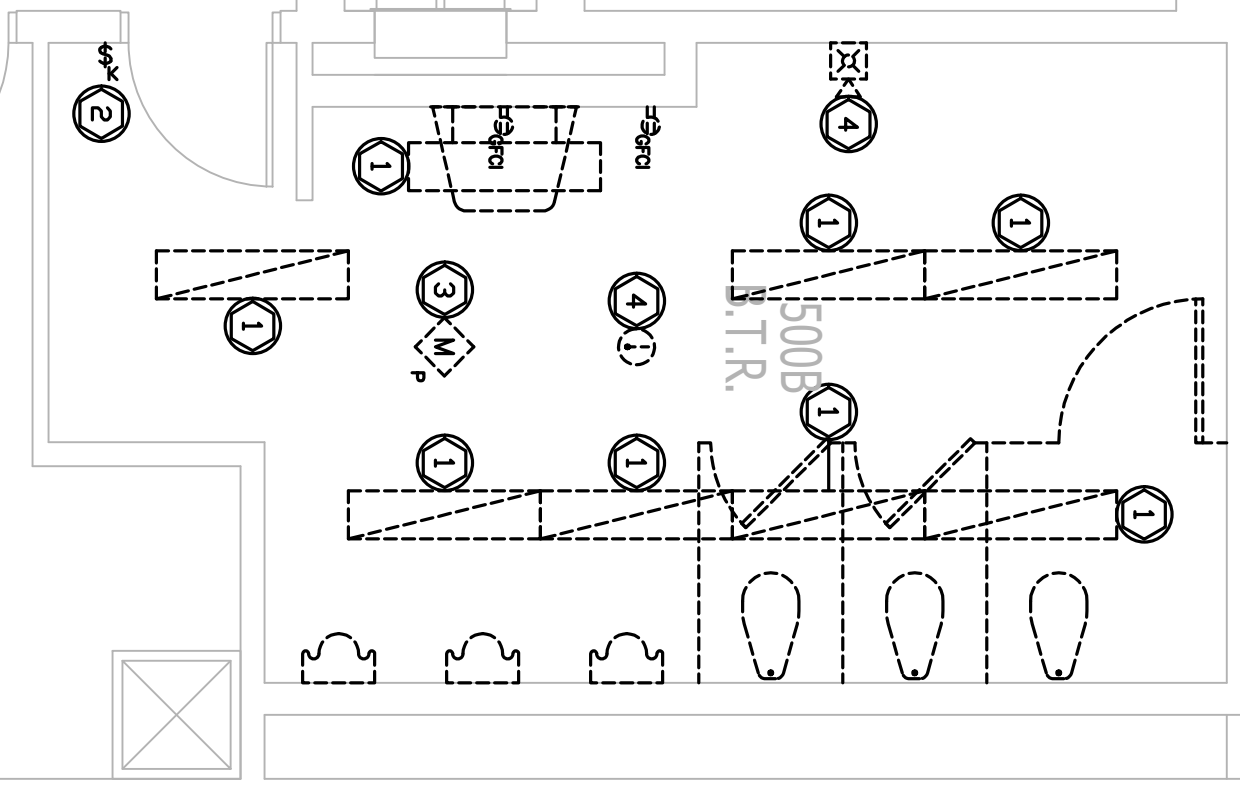
1 ELECTRICAL DEMOLITION PLAN
E1.1 G.T.R. 200C
1/4"=1'-0"



2 ELECTRICAL DEMOLITION PLAN
E1.1 B.T.R. 300A
1/4"=1'-0"



3 ELECTRICAL DEMOLITION PLAN
E1.1 G.T.R. 500A
1/4"=1'-0"



4 ELECTRICAL DEMOLITION PLAN
E1.1 B.T.R. 500B
1/4"=1'-0"

DEMOLITION - SHEET NOTES

- EXISTING LIGHT FIXTURES TO BE REMOVED AND REPLACED WITH NEW. SALVAGE CIRCUITRY FOR USE DURING NEW WORK.
- EXISTING LIGHT SWITCH TO BE REMOVED AND REPLACED WITH NEW. SALVAGE CIRCUITRY FOR USE DURING NEW WORK.
- EXISTING OCCUPANCY SENSOR TO BE REMOVED AND REPLACED WITH NEW. SALVAGE CIRCUITRY FOR USE DURING NEW WORK.
- EXISTING FIRE ALARM DEVICE SHALL BE REMOVED, SAWED AND RE-INSTALLED.
- EXISTING RECEPTACLE TO BE REMOVED AND REPLACED WITH NEW IN KIND. SALVAGE CIRCUITRY FOR USE DURING NEW WORK.

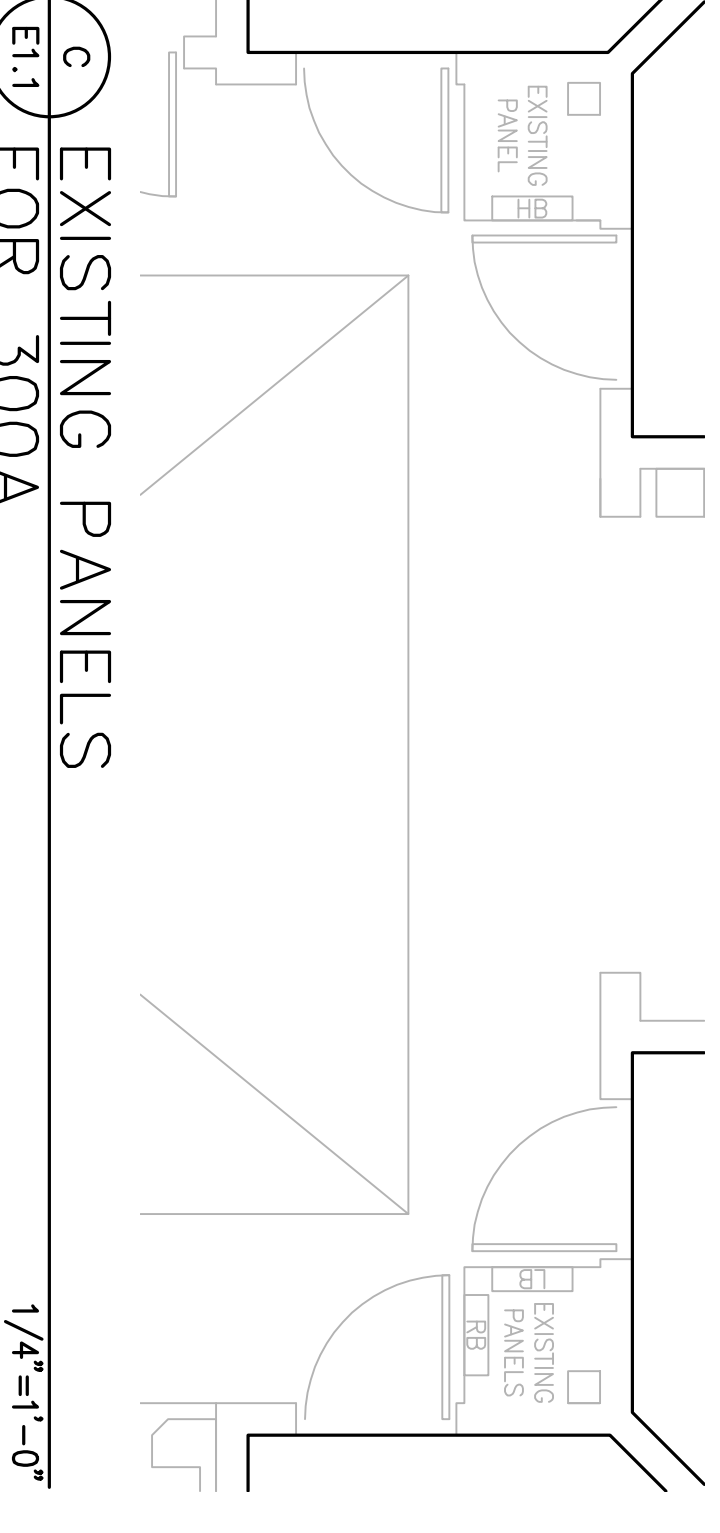
GENERAL ELECTRICAL NEW WORK NOTES

- APPLICABLE TO ALL PLANS AS REQUIRED
- FIRE ALARM SYSTEM SHALL BE COMPLETELY INSPECTED BY LOCAL AUTHORITY HAVING JURISDICTION & A FUNCTIONAL TEST BY THE CONTRACTOR & THEN 5 MINUTES IN THE ALARM CONDITION.
 - THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FACEWORK FOR POWER, DATA AND OTHER ELECTRICAL SYSTEMS REGARDLESS OF LOCATION. OVER THE WIRING & DEMONSTRATION SHALL BE REQUIRED TO OPERATE A MINIMUM OF 24 HOURS IN THE NORMAL CONDITION TO PROVIDE PROVEN RELIABILITY AND FIRE SAFETY FOR ALL ELECTRICAL/ELECTRONIC SYSTEMS PENETRATING RATED PARTITIONS.
 - ALL SPRINKLE MONITORED DEVICES AND ASSOCIATED FACEWORK SHALL BE APPROVED PRIOR TO ORDERING AND INSTALLING.
 - CONDUIT WORK SHALL BE PERFORMED WITH ALL OTHER TRADES, MATERIALS AND FIELD CONDITIONS.
 - CONDUIT WORK SHALL BE COORDINATED WITH MECHANICAL AND FIELD CONDITIONS.
 - FIELD LOCATE AND CORRELATE DISCONNECT SWITCH LOCATIONS WITH MECHANICAL, PLUMBING, FURNITURE AND ALL OTHER TRADES. IF THERE IS ANY DISCREPANCY BETWEEN THE ACTUAL AND PLANS, THE ENGINEER SHALL BE NOTIFIED.
 - ALL CONDUIT SHALL BE IDENTIFIED AND COORDINATED WITH MECHANICAL AND PLUMBING PLANS FOR EXACT LOCATIONS. ALL CONDUIT SHALL BE IDENTIFIED AND COORDINATED WITH MECHANICAL AND PLUMBING PLANS FOR EXACT LOCATIONS.
 - ALL 250 VOLT SMALL PAGES, 15 AND 20 AMP RECEPTABLES WHEN INSTALLED WITH SIX FOOT RADIUS OF SWINGS FOR OTHER WATER SUPPLY, GAS, TELEPHONE, TELEVISION, CABLE, AND OTHER SERVICES, THIS SHALL APPLY TO ALL OVERHEADS, DATA, TELEVISION, CABLE, AND OTHER SERVICES.
 - ALL CIRCUIT BREAKERS SERVING MECHANICAL EQUIPMENT SHALL BE LISTED AS "HACKER-FRIENDLY" MOTORS, ETC. BEFORE INSTALLING CONDUIT AND RACEWAY. IF THERE IS ANY DISCREPANCY BETWEEN THE ACTUAL AND PLANS, THE ENGINEER SHALL BE NOTIFIED.
 - ALL MECHANICAL CONTROL WIRING IS BY MECHANICAL CONTRACTOR.
 - ALL WORK SHALL BE PERFORMED AND COMPLY TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), NFPA 72, ADA, THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 96, AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 101.
 - ALL FIRE ALARM WORK SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS. THE ELECTRICAL CONTRACTOR IS PROVIDING THE SCOPED DATA WIRE RACEWAY FOR THE SECURITY AREAS AS IS NOTED. WHERE THE ELECTRICAL CONTRACTOR IS PROVIDING SURFACE MOUNTED, OR CONCEALED BLUE SWAGE TUBING FOR THE DATA POINT, SPLIT RACEWAY APPLICATION FOR REVIEW AND APPROVAL.

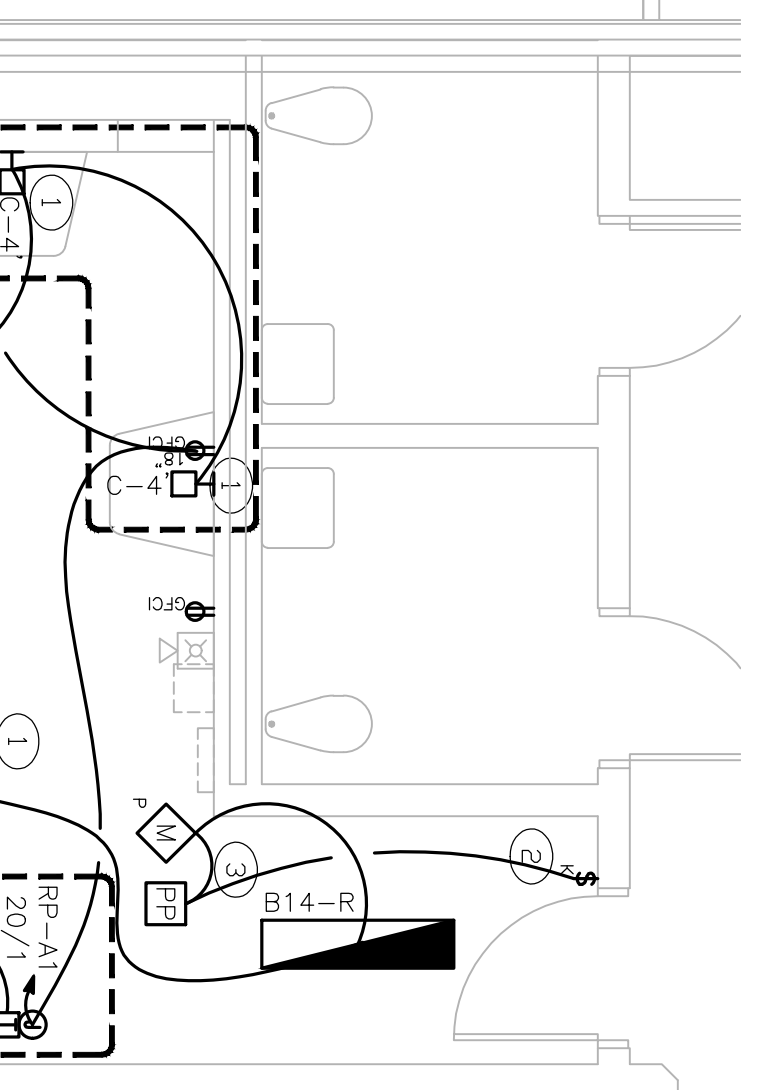
ELECTRICAL WIRING APPLICATION SCHEDULE

- APPLICABLE TO ALL PLANS AS REQUIRED
- A PARTIAL KEYPLAN**
E1.1
1. INDOOR WIRING METHODS:
- BRANCH CIRCUITS CONCEALED BY REMOVABLE DROP CEILING, WC CABLE.
 - BRANCH CIRCUITS CONCEALED BY REMOVABLE WALLS/Ceilings, WC CABLE.
 - BRANCH CIRCUITS EXPOSED IN UNFINISHED SPACES, THHN/THWN CONDUCTORS IN SCHED. 40 PVC CONDUIT.
 - BRANCH CIRCUITS CONCEALED BY PERMANENT WALLS/Ceilings, WC CABLE.
 - BRANCH CIRCUITS EXPOSED IN UNFINISHED SPACES, FPLP CABLE IN METALLIC SURFACE RACEWAY.
 - FIRE ALARM CIRCUITS EXPOSED IN UNFINISHED SPACES, FPLP CABLE IN SCHED. 40 PVC CONDUIT.
 - FIRE ALARM CIRCUITS CONCEALED BY PERMANENT WALLS/Ceilings, FPLP CABLE.
2. OUTDOOR WIRING METHODS:
- BRANCH CIRCUITS ABOVE-GROUND, THHN/THWN CONDUCTORS IN SCHED. 40 PVC CONDUIT.
 - BRANCH CIRCUITS ABOVE-GROUND, THHN/THWN CONDUCTORS IN GALV. RIGID STEEL OR SCHED. 80 PVC CONDUIT WITH EXPANSION JOINTS AS NECESSARY.

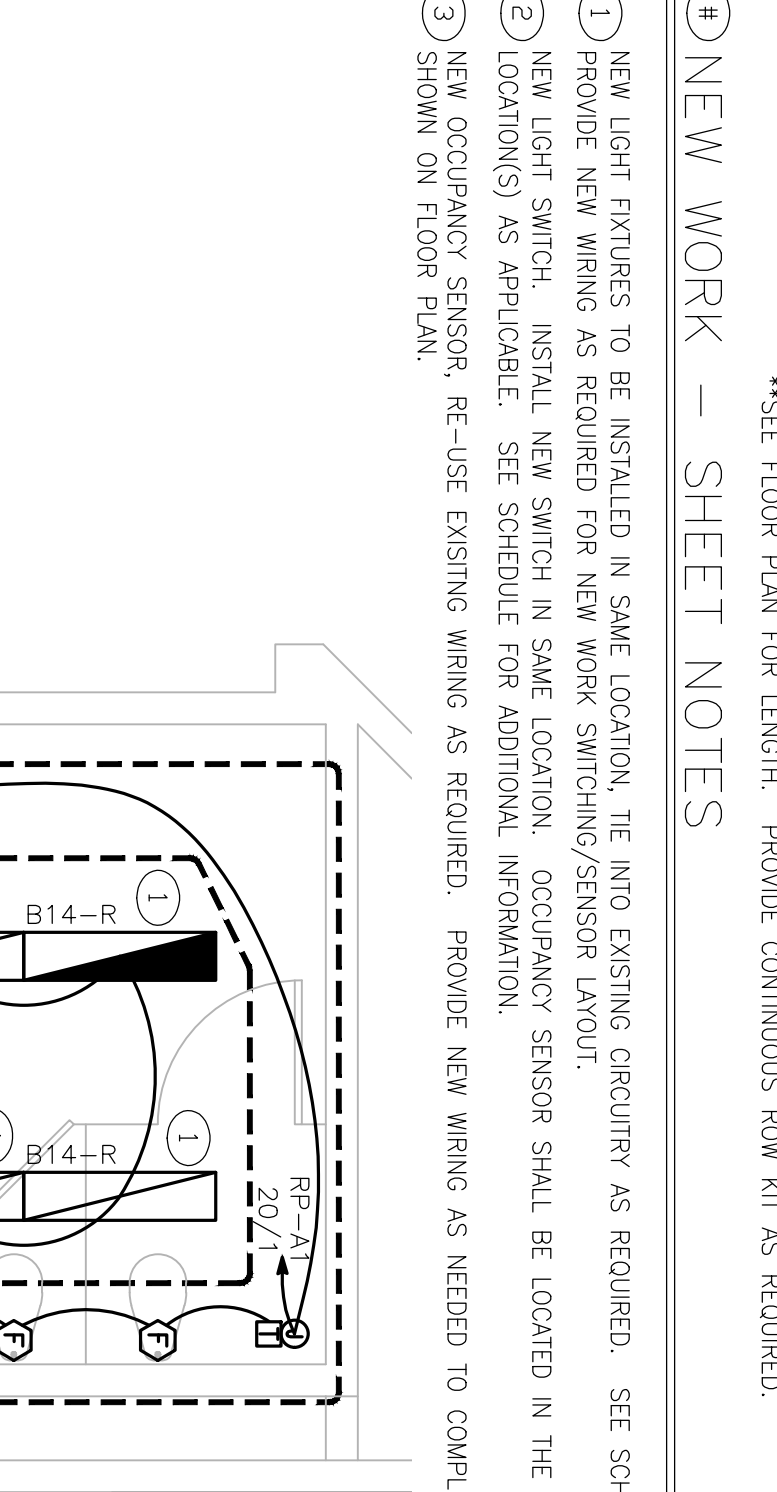
B EXISTING PANELS
E1.1 FOR 200C
1/4"=1'-0"



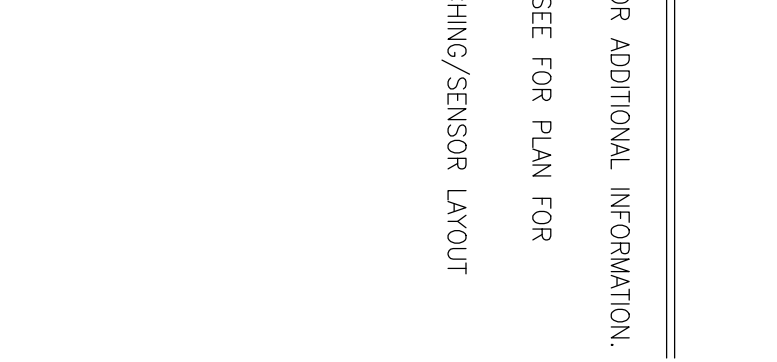
5 ELECTRICAL NEW WORK PLAN
E1.1 G.T.R. 200C
1/4"=1'-0"



6 ELECTRICAL NEW WORK PLAN
E1.1 B.T.R. 300A
1/4"=1'-0"



7 ELECTRICAL NEW WORK PLAN
E1.1 G.T.R. 500A
1/4"=1'-0"



8 ELECTRICAL NEW WORK PLAN
E1.1 B.T.R. 500B
1/4"=1'-0"

NEW WORK - SHEET NOTES

- NEW LIGHT FIXTURES TO BE INSTALLED IN SAME LOCATION. SEE INTO EXISTING SECURITY AS REQUIRED. SEE SCHEDULE FOR ADDITIONAL INFORMATION.
- RELOCATE NEW WIRING AS REQUIRED FOR NEW WORK. SWITCHING/SENSOR LAYOUT.
- NEW LIGHT SWITCH, INSTALL NEW SWITCH IN SAME LOCATION. OCCUPANCY SENSOR SHALL BE LOCATED IN THE CEILING. SEE FPM PLAN FOR LOCATION(S) AS APPLICABLE. SEE SCHEDULE FOR ADDITIONAL INFORMATION.
- NEW OCCUPANCY SENSOR, RE-USE EXISTING WIRING AS REQUIRED. PROVIDE NEW WIRING AS NEEDED TO COMPLETE SWITCHING/SENSOR LAYOUT SHOWN ON FLOOR PLAN.

LIGHT FIXTURE SCHEDULE

- FIXTURE DESIGNATION: B14-R
MANUFACTURER: PAR LIGHTING 30
MODEL: 150W 5'X6' COLOR TEMP: NON-DIMMING DRIVER, BATTERY BACKUP (WHERE INDICATED ON FLOOR PLAN).
- FIXTURE DESIGNATION: C-***
MANUFACTURER: COLUMBIA LIGHTING
MODEL: 150W 4'X6' OR 2'X8' NON-DIMMING DRIVER
SPECIFICATIONS/REMARKS: **SEE FLOOR PLAN FOR LENGTH. PROVIDE CONTINUOUS ROW KIT AS REQUIRED.

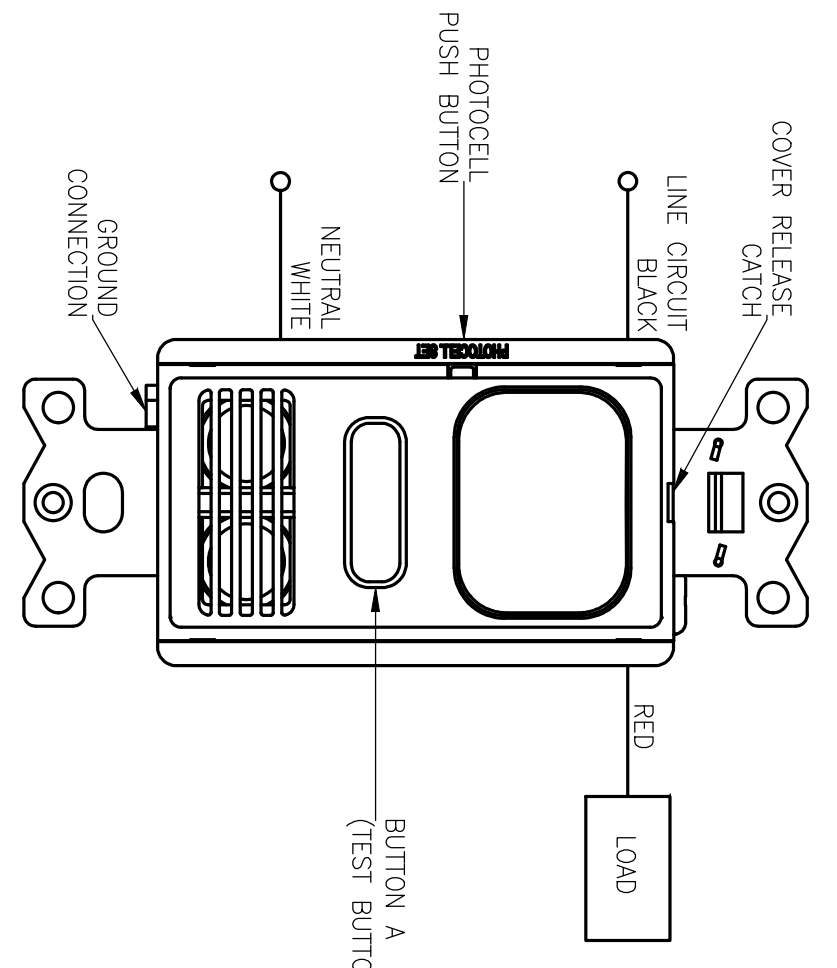
BOARD PRESIDENT, CHRIS GIBBARD

SUPERINTENDENT, JOSEPH LANGOSKI

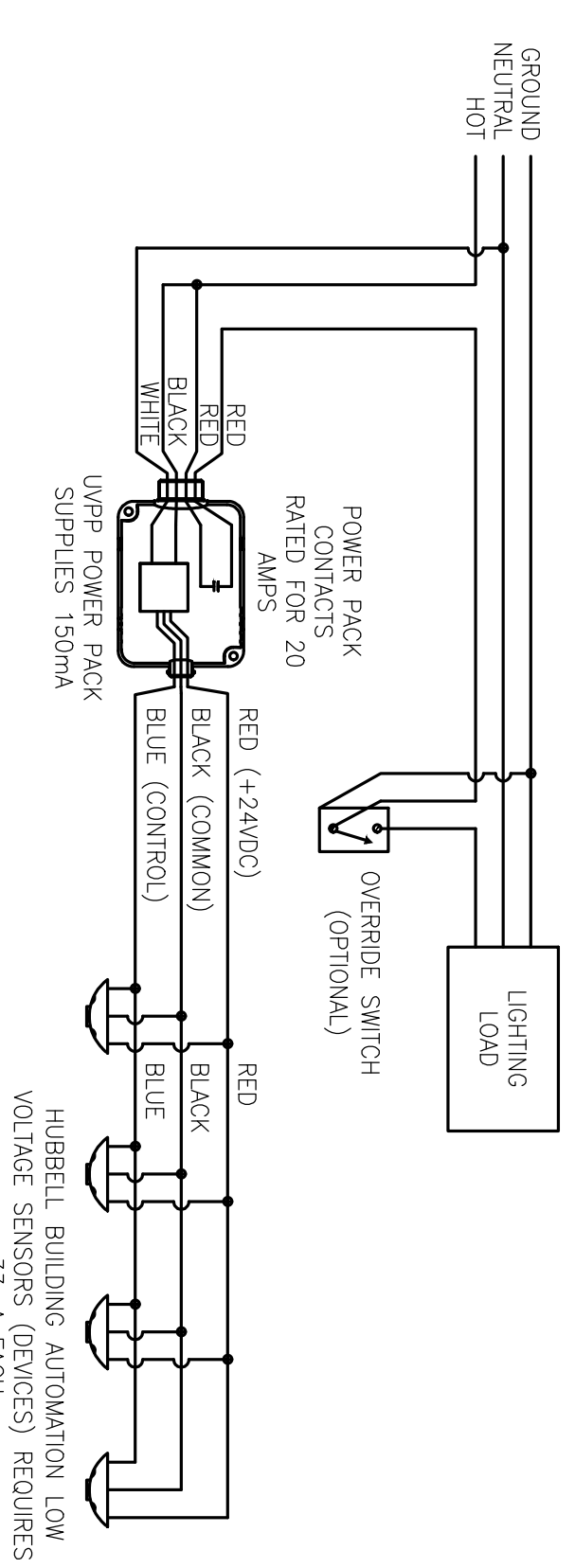
<p>STATE PLAN NO. 2850-080-18-1000 CONTRACT 5 - TOILET ROOM RENOVATIONS LUMBERTON TOWNSHIP SCHOOL DISTRICT LUMBERTON MIDDLE SCHOOL ISSUED FOR BID</p>		<p>LOT 3</p>		<p>SCHAFER KENINGER ENGINEERING GROUP 813 Route 9 South Cape May Court House, NJ 08210 B. Todd Schaefer, Professional Engineer and PE 0250531</p>	
<p>DATE No. REVISION</p>		<p>BURLINGTON COUNTY</p>		<p>DATE No. REVISION</p>	
<p>Block 19.66</p>		<p>TOWNSHIP OF LUMBERTON</p>		<p>DATE No. REVISION</p>	
<p>Drew C. Dingler, AIA, Vice President New Jersey Lic. # 24401062800</p>		<p>Linda M. Vitenti, AIA, Vice President New Jersey Lic. # 24401062800</p>		<p>Louis J. DeLusso, AIA, PE, President New Jersey Lic. # 025053100 - Professional Engineer and PE 0250531</p>	

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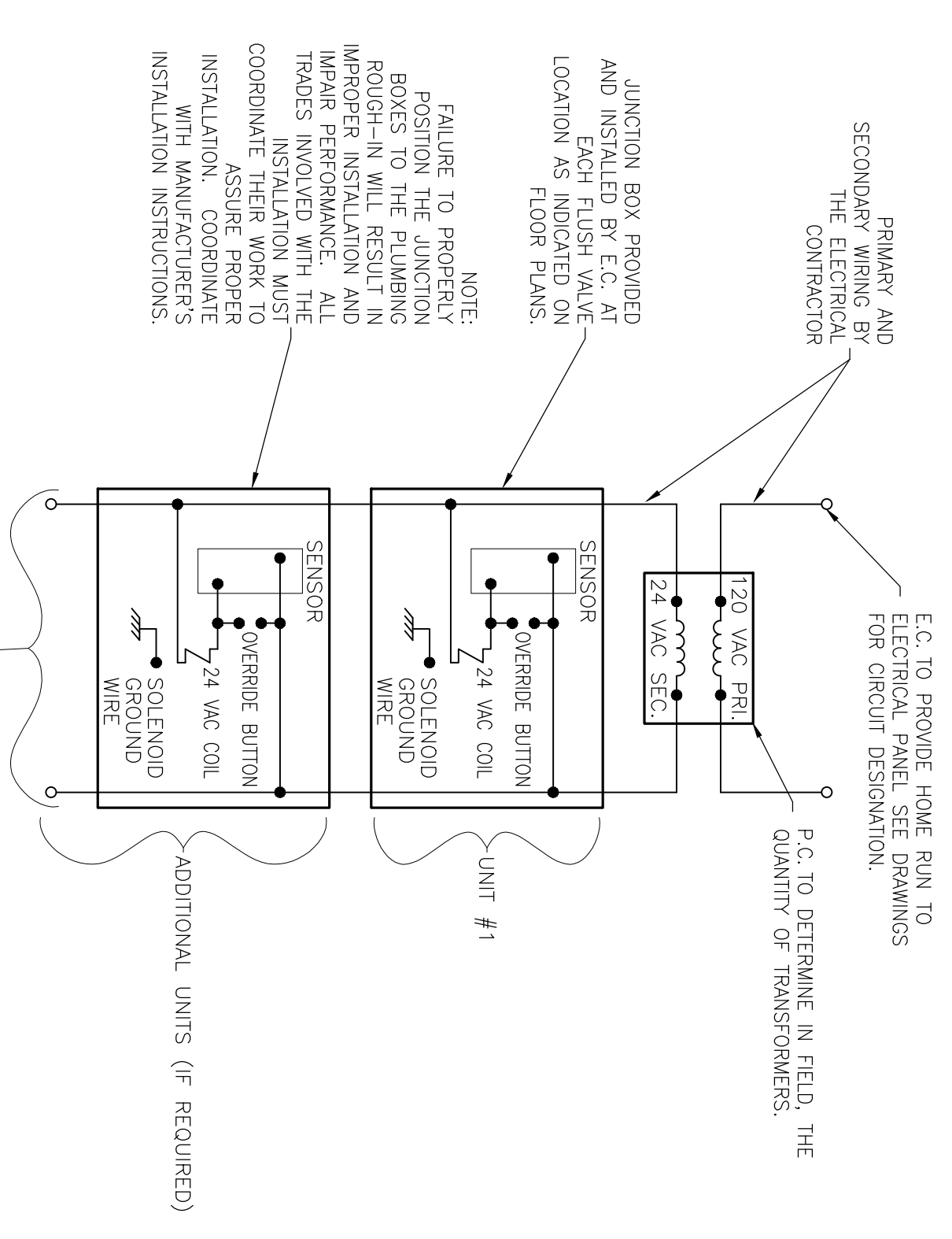
DATE: 9/2/19
 SCALE: AS NOTED
 SHEET TITLE: ELECTRICAL DEMOLITION AND NEW WORK PLANS TOILET ROOMS



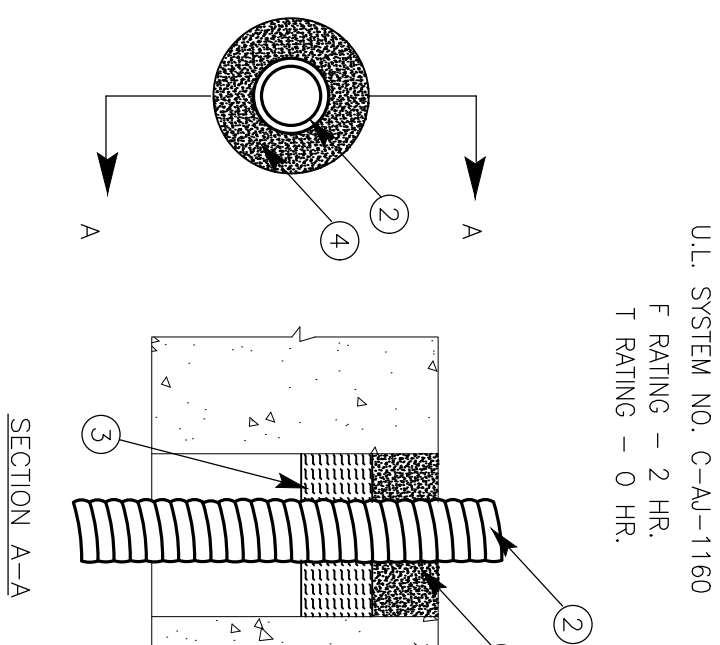
A WIRING DIAGRAM
E2.1 AUTOMATIC WALL SWITCH N.T.S.



B WIRING DIAGRAM
E2.1 CEILING OCCUPANCY SENSOR(S) N.T.S.

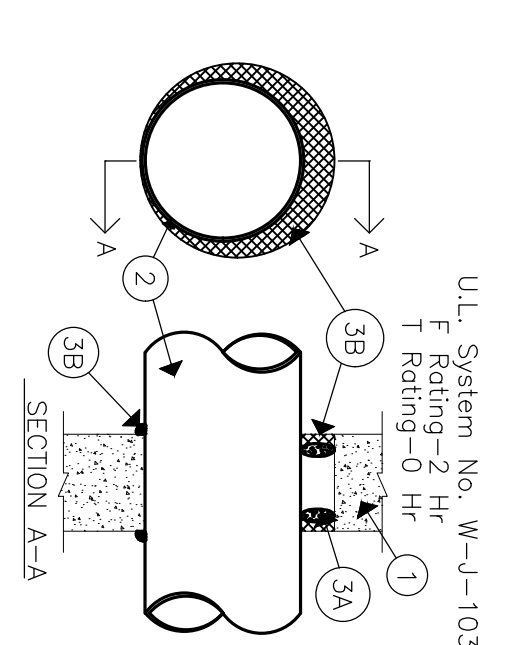


C FLUSH VALVE UNIT WIRING DIAGRAM
E2.1 TYPICAL DETAIL - ALTERNATE N.T.S.



D RATED ASSEMBLY PENETRATION
E2.1 DETAIL FOR TYPE "MC" CABLE N.T.S.

- FLOOR OR WALL ASSEMBLY - REFER TO ARCHITECTURAL PLANS
- THROUGH PENETRATING PRODUCT SHALL NOT BE SMALLER THAN 4 IN. DIA. FOR SMALLER STEEL PENETRATING PRODUCT SHALL NOT BE SMALLER THAN 2 IN. DIA. FOR SMALLER CONDUIT. MAX ONE FLEXIBLE METAL CONDUIT TO BE INSTALLED NEAR CENTER OF CIRCULAR THROUGH OPENING IN FLOOR OR WALL
- PACKING MATERIAL - NOM. 1 IN. THICKNESS OF CERAMIC CALUMINA PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED MIN. 1 IN. FROM TOP SURFACE OF FLOOR OR FORM
- FILL VOID OR CAVITY MATERIAL - CAULK - APPLIED TO FILL THE ANNULAR SPACE AROUND THE FLEXIBLE METAL CONDUIT. IN FLOORS, TOP SURFACE OF FLOOR FILL MATERIAL MUST BE INSTALLED FIRST WITH MATERIAL TO BE INSTALLED FLUSH WITH WALL SURFACE ON BOTH SIDES OF WALL ASSEMBLY. CO. - OR APPROVED EQUAL
- BEARING THE UL CLASSIFICATION MARKING



E RATED ASSEMBLY PENETRATION
E2.1 DETAIL FOR NON-FLEXIBLE CONDUIT N.T.S.

- Wall Assembly - Refer to architectural plans for wall assembly type.
- either concentricity or eccentricity within the freestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly.
- Be used:
 - Iron pipe, steel pipe, or cast iron pipe, standard or heavy duty.
 - Iron pipe, steel pipe, or cast iron pipe, standard or heavy duty. The steel pipe shall be of a minimum of 1/2 in. thickness.
 - Conduit - Nom. 4 in. diam. (or smaller) steel electrical metallic tubing in. (or heavier).
 - Copper tubing - Nom. 2 in. diam. (or smaller) Type L (or heavier) in. (or heavier).
 - Copper pipe - Nom. 2 in. diam. (or smaller) Regular (or heavier) copper.
- Freestop System - The freestop system shall consist of the following:
 - Packing Material - Form board, rod firmly packed into opening as a wall is required to accommodate the required thickness of fill.
 - Fill Void or Cavity Material - Caulk - 1/2 in. thickness of fill.
 - Apply a permanent sealant between pipe and wall, a minimum of 1/4 in. on both surfaces of wall shall be applied at the wall/pipe interface bearing the UL Classification Marking 500+.

WIRE SIZING SCHEDULE

AMPS	AWG
20	#12
25	#10
30	#10
35	#8
40	#8
45	#8
50	#8
55	#6
60	#6
70	#4
85	#3
100	#3
120	#1
145	#1/0

ALL WIRE SHALL BE COPPER WITH THIN/THIN 90°C INSULATION VALUE. SCHEDULE (UNLESS NOTED OTHERWISE)

WIRE SIZING SCHEDULE - DISTANCE IN FEET (X = +1000 FT.)

AMPS	#12	#10	#8	#6	#4	#3	#2	#1	#1/0
20		250	380	610	960	X	X	X	X
25		250	380	610	960	X	X	X	X
30		165	255	405	645	800	X	X	X
35		150	240	385	600	750	920	X	X
40		150	240	385	600	750	920	X	X
45		150	240	385	600	750	920	X	X
50		150	240	385	600	750	920	X	X
55		150	240	385	600	750	920	X	X
60		150	240	385	600	750	920	X	X
65		150	240	385	600	750	920	X	X
70		150	240	385	600	750	920	X	X
75		150	240	385	600	750	920	X	X
80		150	240	385	600	750	920	X	X
85		150	240	385	600	750	920	X	X
90		150	240	385	600	750	920	X	X
95		150	240	385	600	750	920	X	X
100		150	240	385	600	750	920	X	X
105		150	240	385	600	750	920	X	X
110		150	240	385	600	750	920	X	X
115		150	240	385	600	750	920	X	X
120		150	240	385	600	750	920	X	X
125		150	240	385	600	750	920	X	X
130		150	240	385	600	750	920	X	X
135		150	240	385	600	750	920	X	X
140		150	240	385	600	750	920	X	X
145		150	240	385	600	750	920	X	X
150		150	240	385	600	750	920	X	X

ALL WIRE SHALL BE COPPER W/ THIN-THIN 90°C INSULATION VALUE. CAPACITY BASED ON 75°C AMG. BRANCH CIRCUIT WIRE SIZE (UNLESS NOTED OTHERWISE). DISTANCES SHOWN REFLECT A MINIMUM OF 5% VOLTAGE DROP AT 120 VAC.

F WIRE SIZING SCHEDULES
E2.1 WIRE SIZING DISTANCES N.T.S.

BOARD PRESIDENT, CHRIS STRUBBERG

SUPERINTENDENT, JOSEPH LANGOSKI

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SCALE: 1/8" = 1'-0"
DATE: 9/2/19
DRAWN BY: JIM PERCE
CHECKED BY: JIM PERCE

SHEET TITLE: ELECTRICAL DETAILS
SHEET NO.: E2.1

BLOCK 19.66 STATE PLAN NO. 2850-080-18-1000
CONTRACT 5 - TOILET ROOM RENOVATIONS
LUMBERTON TOWNSHIP SCHOOL DISTRICT
LUMBERTON MIDDLE SCHOOL
ISSUED FOR BID
TOWNSHIP OF LUMBERTON BURLINGTON COUNTY

Drew C. Dingler, AIA, Vice President
Linda M. Viretti, AIA, Vice President
Louis J. DeLusso, AIA, PP, President

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8,104 Kilgus, Professional Engineer Lic# 5250513

DATE	NO.	REVISION

