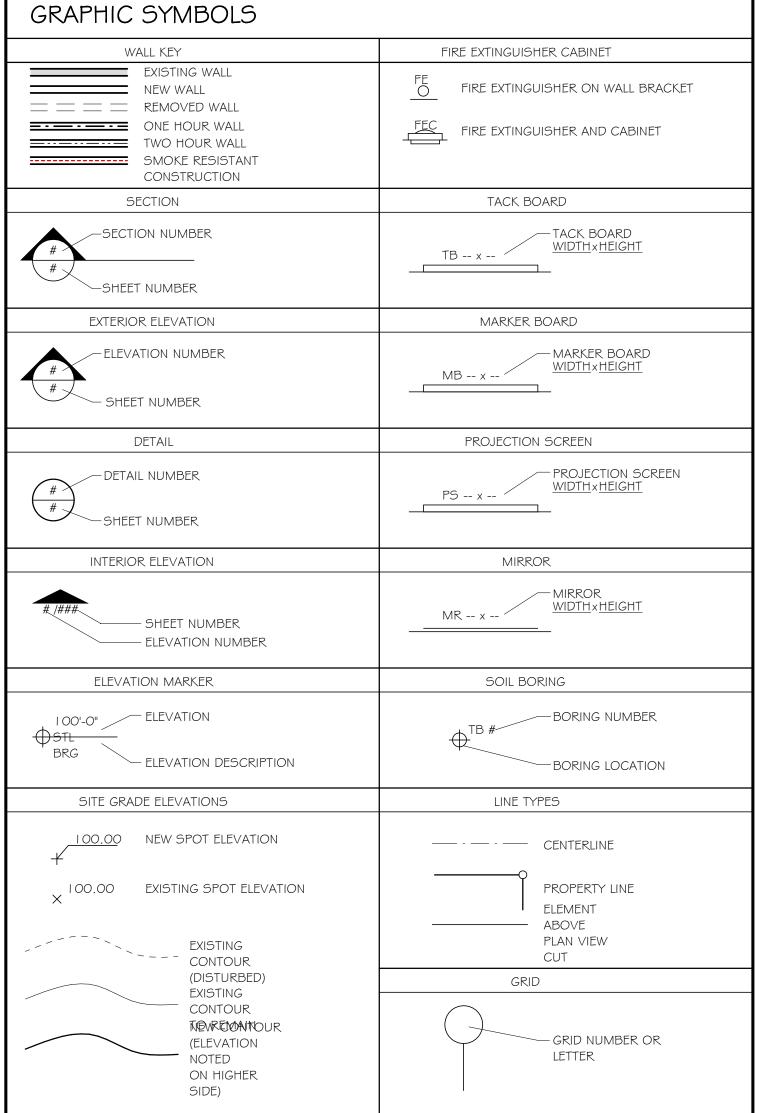


# WILSON APARTMENTS ACCESSIBILITY UPGRADES

ST. CLOUD HRA

41 3RD AVENUE NORTH EAST ST. CLOUD, MINNESOTA 56303

# MATERIAL HATCHES (SECTION CUTS EARTH UNDISTURBED EARTH/ COMPACTED FILL CONCRETE MASONRY UNITS POURED CONCRETE STONE MASONRY VENEER STEEL ROUGH WOOD FINISH WOOD (LARGE SCALE) PLYWOOD (LARGE SCALE) RIGID INSULATION BATT INSULATION BLOWN INSULATION CEILING TILE (LARGE SCALE) GRANULAR FILL GYPSUM BOARD (LARGE SCALE) POURED CONCRETE (PLAN) GYPSUM BOARD CEILING (PLAN)



DOOR	ROOM NAME AND NUMBER
DOOR NO.	ROOM NAME  NAME  ROOM NUMBER
WINDOW AND BORROWED LITE	WALL TYPE
WINDOW MARK	WALL TYPE NUMBER (SEE WALL TYPE SCHEDULE)
PLANTINGS	CONSTRUCTION NOTE
TYPE  3  QUANTITY	CONSTRUCTION NOTE MARK
DEMOLITION NOTE	
DEMOLITION NOTE MARK	
TITLE BLOCK AND SHEET INF	ORMATION
TITLE MARK	NORTH ARROW
# DETAIL NAME  # SCALE  DETAIL NUMBER	NORTH

### PROJECT TEAM

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### SHEET INDEX

<u>GENERAL</u>

TITLE SHEET

ARCHITECTURA

A I DEMOLITION PLANS
A2 RENOVATION PLANS
A3 CEILING PLAN

### <u>PLUMBING</u>

PO.01 PLUMBING SYMBOLS AND LEGEND
P1.01 PLUMBING DEMO PLANS
P2.01 PLUMBING RENOVATION PLANS
P3.01 PLUMBING ISOMETRICS
P7.01 PLUMBING DETAILS

8.01 PLUMBING SCHEDULES

ELECTRICAL

EO.0 | ELECTRICAL SYMBOLS AND ABBREVIATIONS
E2.0 | ELECTRICAL DEMOLIION PLAN

ELECTRICAL RENOVATION PLANS

## CODE ANALYSIS

APPLICABLE CODES:

2020 MINNESOTA BUILDING CODE
2020 MINNESOTA CONSERVATION CODE FOR EXISTING BUILDINGS
2020 MINNESOTA ACCESSIBILITY CODE
2020 MINNESOTA ENERGY CODE
2020 MINNESOTA ELEVATOR AND RELATED DEVICES CODE
2020 MINNESOTA STATE FIRE CODE
2015 MINNESOTA PLUMBING CODE
2020 NATIONAL ELECTRICAL CODE

2020 MINNESOTA MECHANICAL AND FUEL GAS CODE

PROJECT INFORMATION:

PROJECT NAME: ST. CLOUD HRA WILSON APARTMENTS - ACCESSIBILITY UPGRADES

PROJECT ADDRESS: 41 3RD AVENUE NORTH EAST ST. CLOUD, MINNESOTA 56303

PROJECT DESCRIPTION:

INTERIOR REMODEL / RECONFIGURATION OF SELECTED RESIDENT UNITS TO BE ACCESSIBLE (LEVEL 2 ALTERATION) - COMPLIANCE BASED ON 2020 MINNESOTA CONSERVATION CODE FOR EXISTING

TYPE OF CONSTRUCTION: I -B (SPRINKLED)

OCCUPANCY

<u>CIRESTACANIGNESQUIREISIDENTSA</u>L (GROUP 'R-2')

DWELLING UNIT / CORRIDOR (WALLS) - 1/2 HOUR

20 MIN.

DWELLING UNIT / DWELLING UNIT (WALLS) - I HOUR

DWELLING UNIT FLOORS - I HOUR

DOORS TO DWELLING UNIT -

ST. CLOUD HRA

**UPGRADES** 

**APARTMENTS** 

ACCESSIBILITY

WILSON

41 3RD AVENUE NORTH EAST ST. CLOUD, MINNESOTA 56303

808 Courthouse Square, St. Cloud, MN 56303

I Hereby Certify That This Plan, Specification or Report Was Prepared By Me or Under My Direct Supervision and That I Am a Duly Licensed Architect Under the Laws of the State of

Revision Schedule

Revision Description

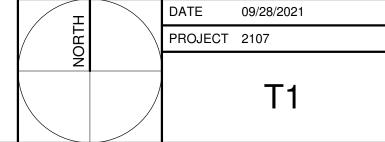
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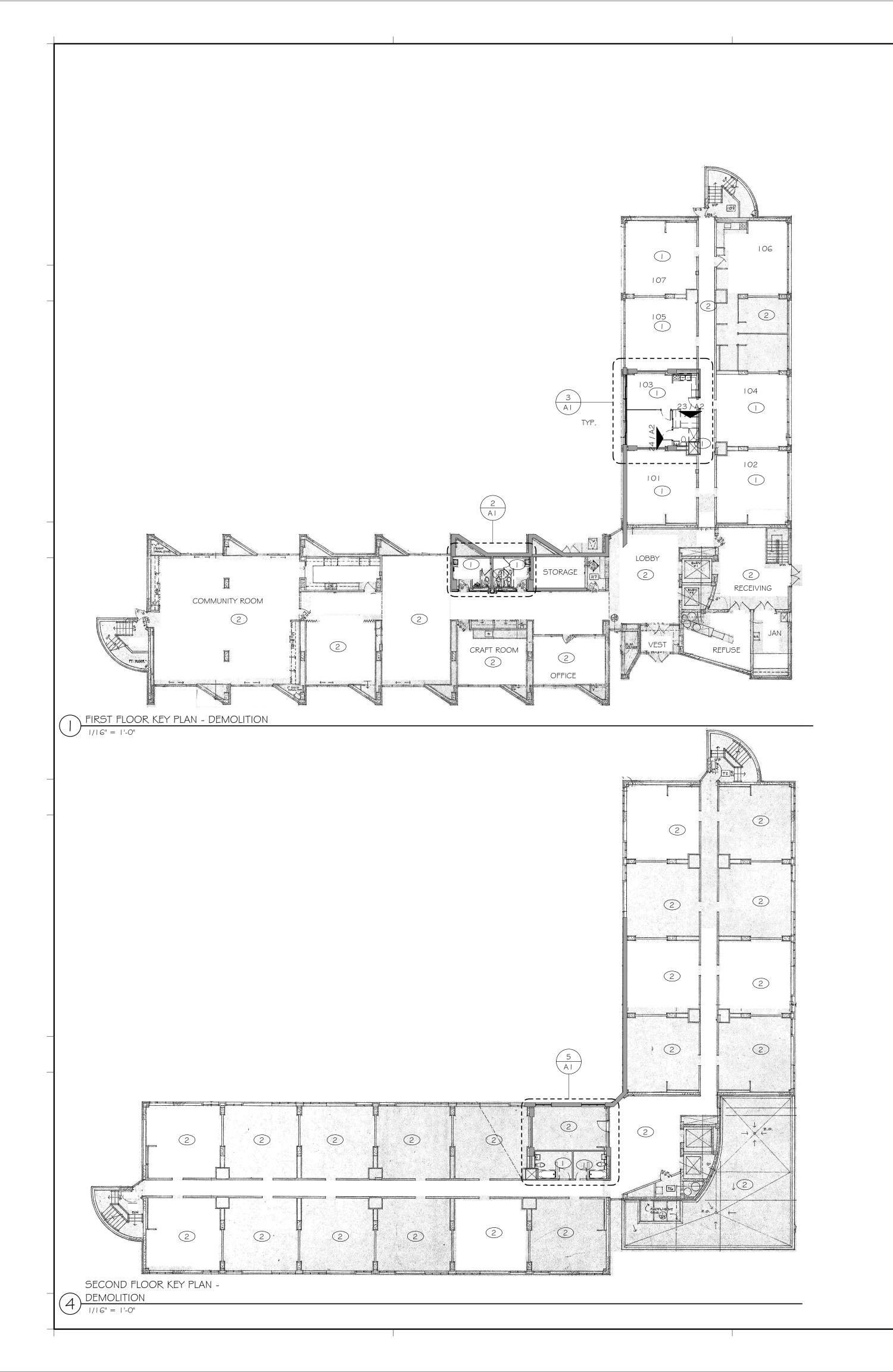
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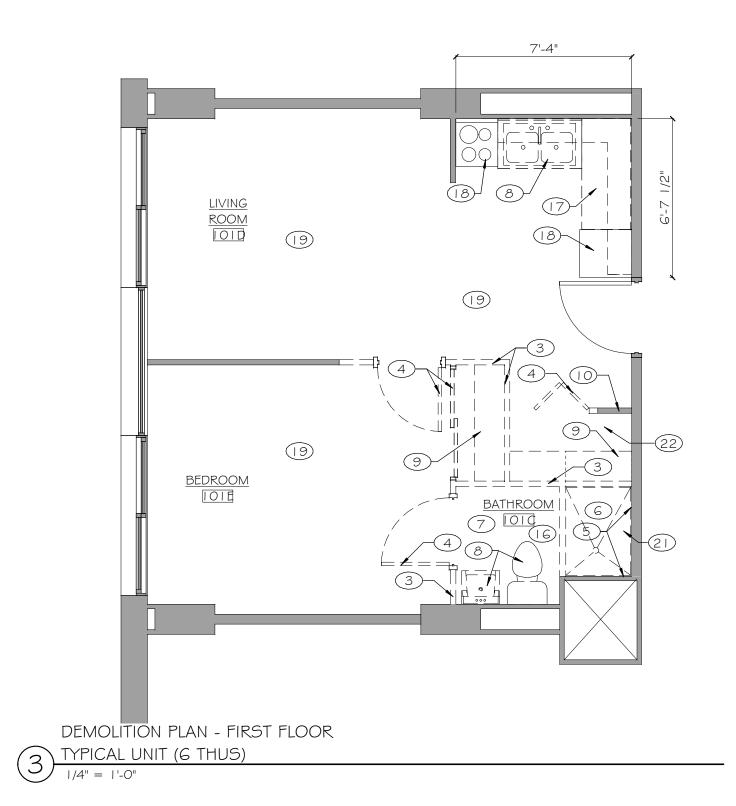
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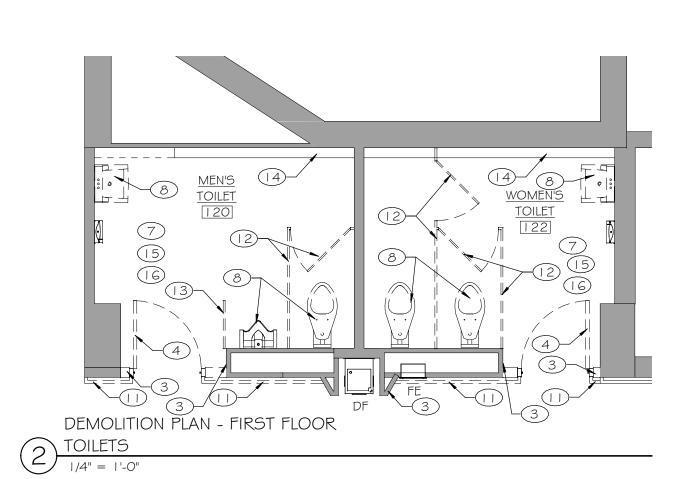
DATE 9/28/2021

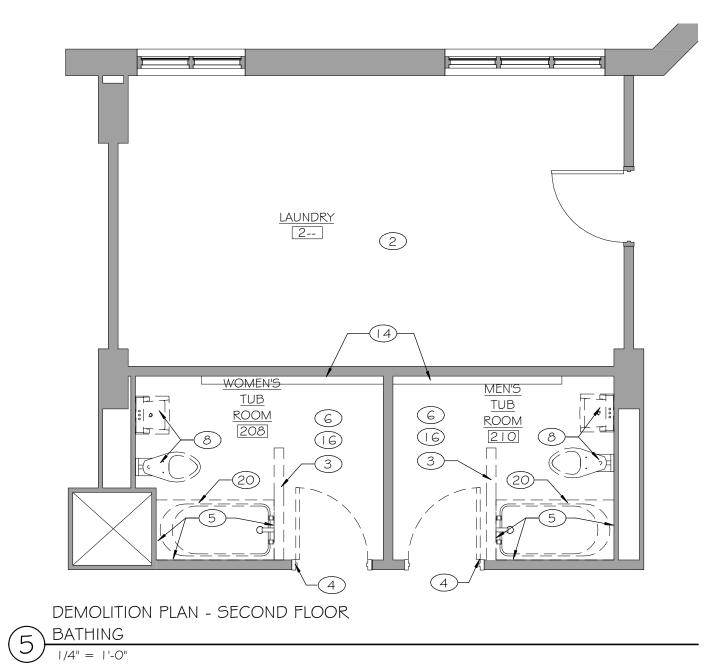


TITLE SHEET









### GENERAL DEMOLITION NOTES

- A. THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND EXISTING SITE CONDITIONS TO DETERMINE EXTENT OF DEMOLITION WORK REQUIRED.
- B. DEMOLITION TO BE BY SAW WHEN NEAT \$ STRAIGHT CUTS ARE REQUIRED.
- C. ALL DEMOLITION MUST BE DONE IN THE REQUIRED EXTENT TO PREPARE \$ ALLOW FOR THE NEW FINISH OR CONSTRUCTION ELEMENT PLANNED AT THIS LOCATION.

### DEMOLITION PLAN NOTES

- UNIT TO BE MADE ACCESSIBLE, SEE UNIT PLAN.
- 2 NO WORK, U.N.O.
- (3) REMOVE MTL STUD AND GYP BD WALL CONST.
- (4) REMOVE DOOR, FRAME, AND HARDWARE.
- (5) REMOVE TILE AND CEMENT BOARD BACKER.
- 6 REMOVE C.T. FLOOR TILE AND BASE.
- 7 REMOVE SHEET VINYL FLOORING AND BASE.
- 8 REMOVE PLUMBING FIXTURE, SEE MECH.
- 9 REMOVE CLOSET ORGANIZER / SHELVES.
- O ELECTRICAL PANEL.
- REMOVE WD HANDRAIL AND BRACKETS. SALVAGE FOR REUSE
- 12) REMOVE TOILET PARTITION AND DOORS.
- (13) REMOVE URINAL SCREEN.
- 14 EXISTING HEAT RADIATOR, PROTECT DURING CONSTRUCTION.
- (15) REMOVE 4'-0" HIGH TILE WAINSCOT FROM THIS ROOM.
- (16) REMOVE ALL TOILET ACCESSORIES (MIRRORS, GRAB BARS, ETC.).
- 17 REMOVE CASEWORK.
- 18 EXISTING APPLIANCE, RELOCATE DURING CONSTRUCTION.
- (19) EXISTING ACT FLOORING TO REMOVED BY ABATEMENT CONTRACTOR
- 20 REMOVE BATHTUB.
- 2) REMOVE CONCRETE SLAB FOR NEW SHOWER FLOC
- (22) REMOVE VCT FLOORING AND BASE

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STEVE PAASCH
DATE 9/28/2021

REG. NO. 21740

WILSON

Revision Schedule

Revision Description

Revision Date

Revision Number

ST. CLOUD HRA

UPGRADES

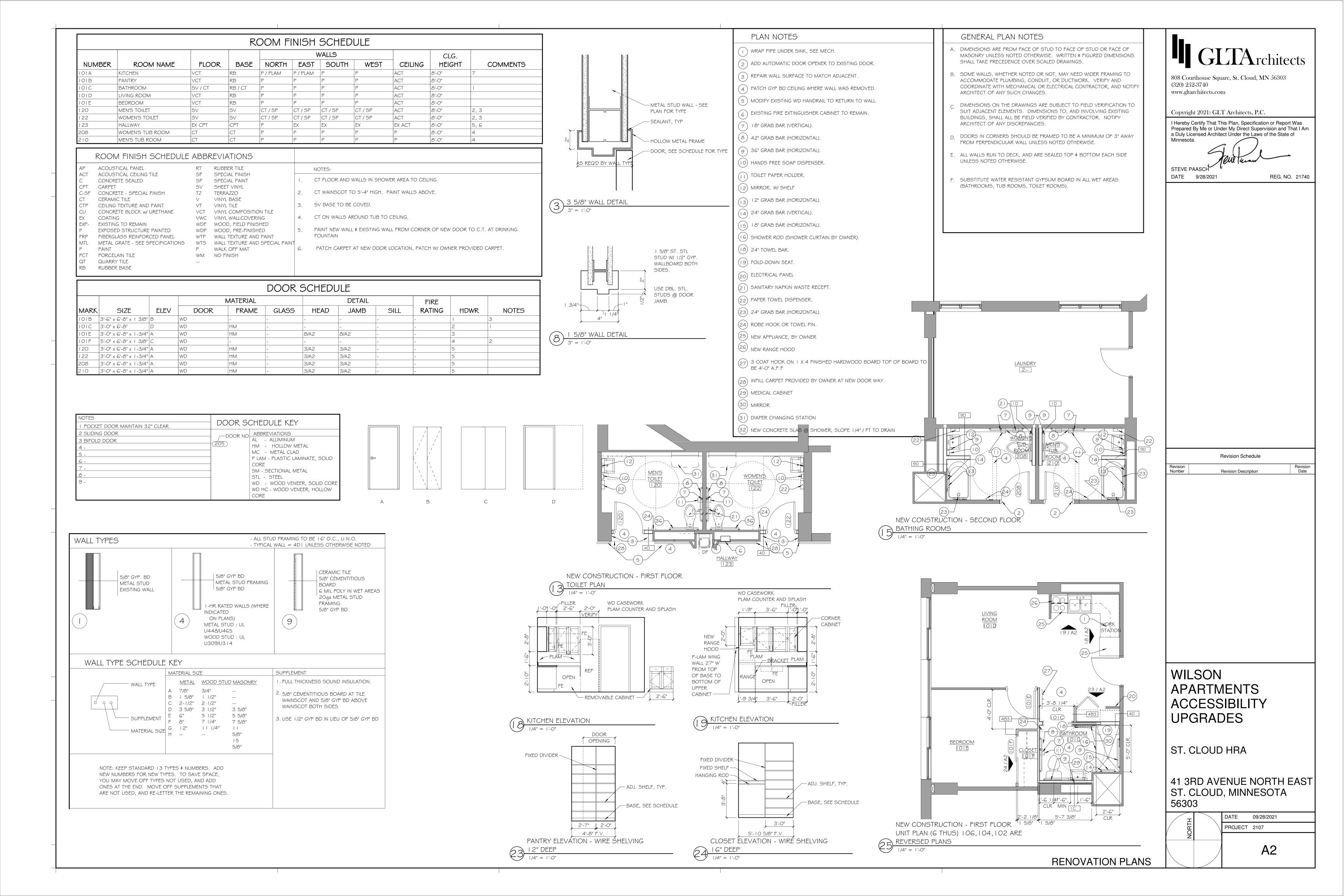
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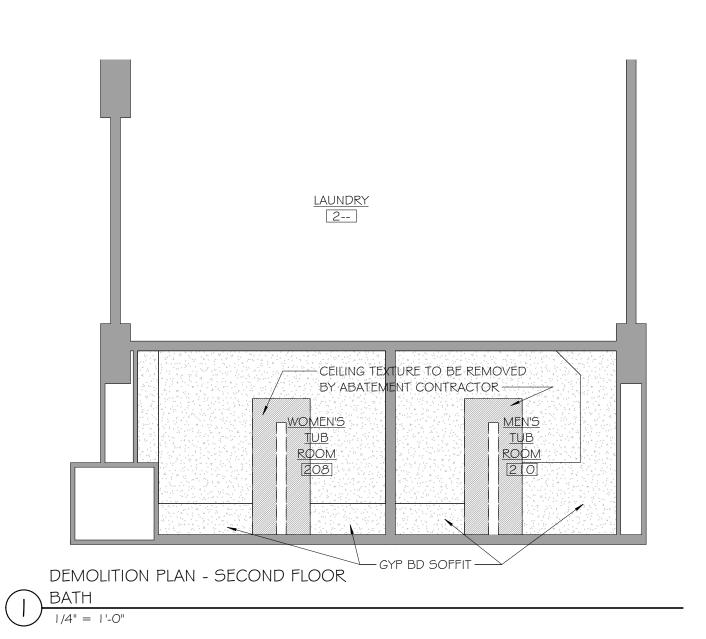
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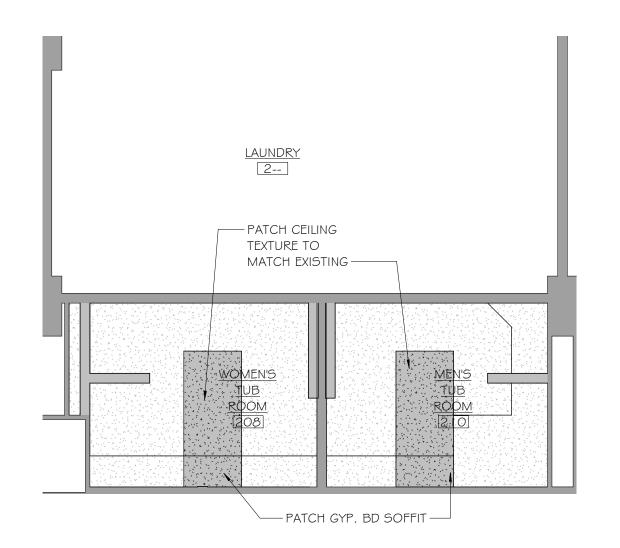
41 3RD AVENUE NORTH EAST ST. CLOUD, MINNESOTA 56303

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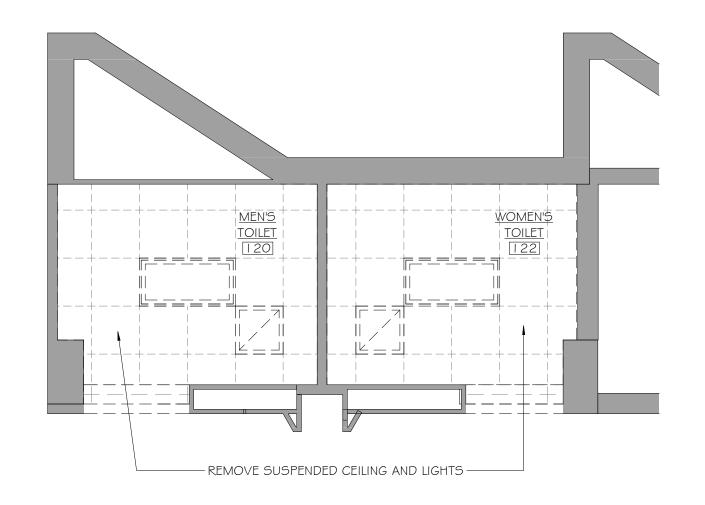
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DEMOLITION PLANS











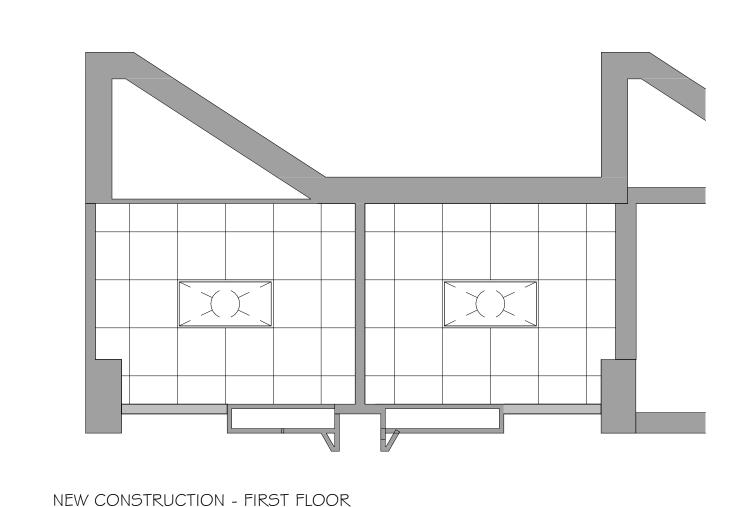
DEMOLITION PLAN - FIRST FLOOR

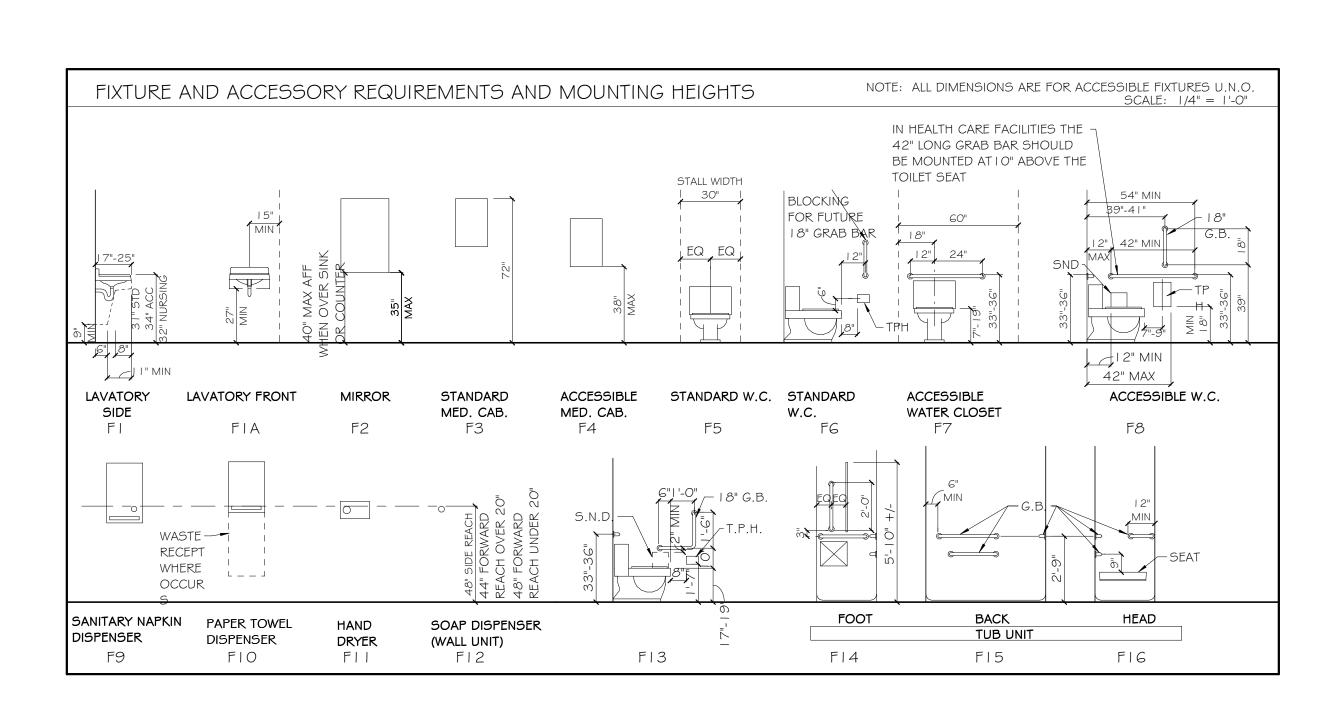
TOILET PLAN

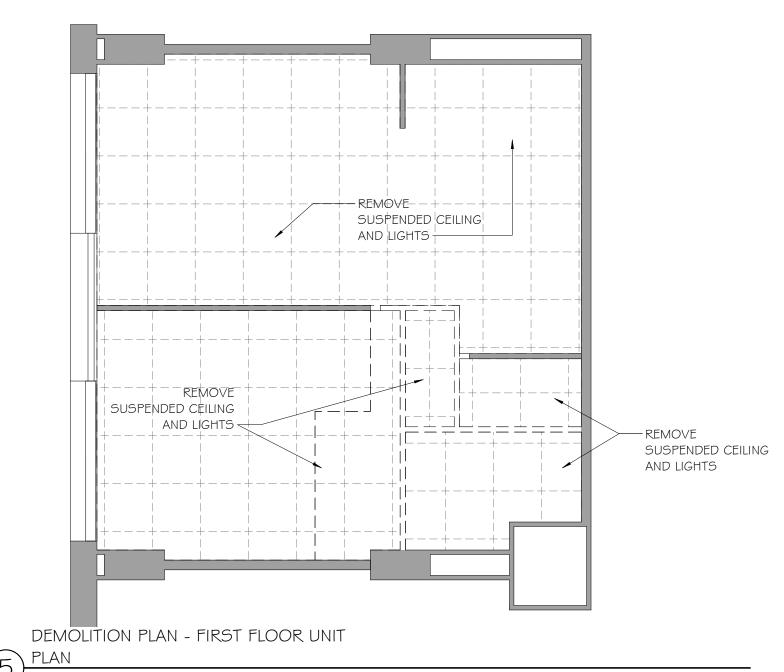
1/4" = 1'-0"

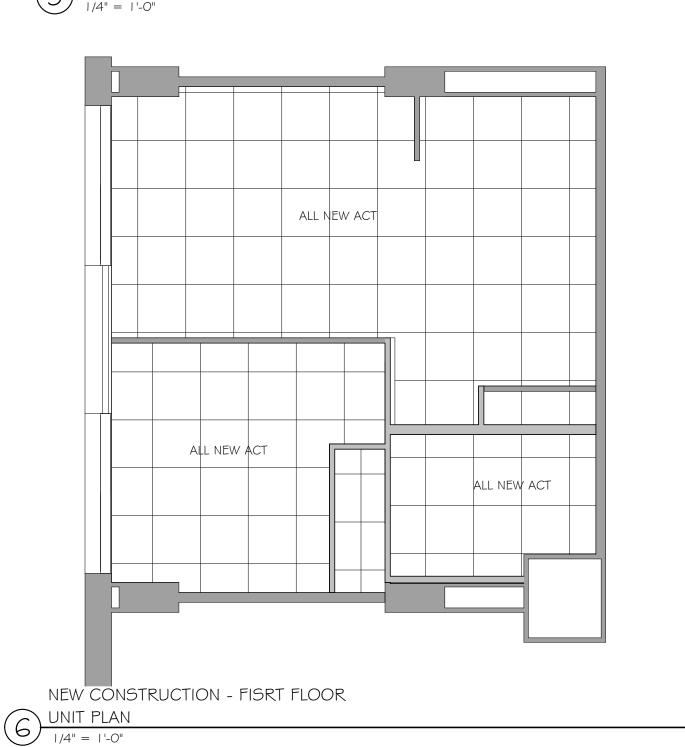
TOILET PLAN

1/4" = 1'-0"









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STEVE PAASCH
DATE 9/28/2021

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WILSON
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ST. CLOUD HRA

41 3RD AVENUE NORTH EAST ST. CLOUD, MINNESOTA 56303

DATE 09/28/2021
PROJECT 2107

A3

**CEILING PLAN** 

		51.11				'	
SYMBOL	DESCRIPTION	PLUM SYMBOL	1BING SYMBOLS DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
STINDOL	ANGLE VALVE	→ FL—	FIRE LINE	→ LPC →	LOW PRESSURE CONDENSATE	STITIBOL → SMR →	SNOW MELTING SYSTEM RETURN
→ BFP →	BACKFLOW PREVENTER	\$ <b>1</b>	FLANGE	⊱—LPS—	LOW PRESSURE STEAM SUPPLY	5—	STEAM TRAP
<b>├</b>	BACK WATER VALVE	<u></u> ⊢○	FLOOR CLEAN OUT	⊱—MPC—	MEDIUM PRESSURE CONDENSATE	5ST	STORM SEWER LINE (ABOVE GRADE)
<u></u>	BALL VALVE	<b>\oint </b>	FLOOR DRAIN	→ MPS →	MEDIUM PRESSURE STEAM SUPPLY	·	STORM SEWER LINE (BELOW GRADE)
C+	BASEBOARD RADIATION	<u> </u>	FLOW MEASURING & BALANCING DEVICE	0	OVERFLOW RAIN WATER LEADER	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	STRAINER
	BRASS UPRIGHT PENDENT TYPE SPRINKLER HEAD	<b>→→</b>	FLOW MEASURING & BALANCING DEVICE, WITH ISOLATION VALVE	0	OVERFLOW ROOF DRAIN	<u> </u>	TEMPERATURE GAUGE
$\longleftarrow \bowtie \longrightarrow$	BUTTERFLY VALVE	⊱FOS →	FUEL OIL SUPPLY		OXYGEN PIPING	5TW\$	TEMPERED WATER
<u> </u>	CHECK VALVE W/DIRECTION INDICATED	⊱FOR →	FUEL OIL RETURN	<b>&gt;</b>	PIPE ANCHOR	\$	THREADED HOSE CONNECTION
⊱—CWS—	CHILLED WATER SUPPLY	├─FOV──	FUEL OIL VENT		PIPE GUIDES		TRIPLE DUTY VALVE, WITH COMBINATION SHUT-OFF, BALANCING, AND CHECK VALVE WITH MEASURING CONNECTIONS
⊱—CWR—	CHILLED WATER RETURN	<b>├</b>	GATE VALVE	<b>&gt;</b> —=	PIPE CAP	\$	UNION
$\boxtimes$	CHROME PLATTED RECESSED TYPE SPRINKLER HEAD	<b>→</b>	GLOBE VALVE	<b>←</b>	PIPE DOWN	⊱—VAC—	VACUUM LINE
$\bigcirc\!$	CLEAN OUT	⊱—HPC—	HIGH PRESSURE CONDENSATE	<b>├</b>	PIPE UP	<b>S</b>	VENT
<b>└──A</b>	COMPRESSED AIR LINE	⊱—HPS—	HIGH PRESSURE STEAM SUPPLY		PLUG VALVE		VERTICAL PENDENT TYPE WINDOM SPRINKLER HEAD
	CONDENSATE DRAINAGE		WALL HYDRANT	<b>₩</b>	PRESSURE GAUGE		WATER HAMMER ARRESTOR
	CONDENSER WATER SUPPLY	Э—I	HOSE BIBB	<u> </u>	PRESSURE REDUCING VALVE WITH INLET AND OUTLET PRESSURE	H	WALL CLEAN OUT
⊱—CR—	CONDENSER WATER RETURN	5—HW—5	HOT WATER (120°) (ABOVE GRADE)	<b>└──</b>	QUICK CLOSING, FUSIBLE LINK VALVE	<b>└─────────</b>	WATER METER
<b>+</b>	CONNECT TO EXISTING	5HW5	HOT WATER (120°) (BELOW GRADE)		RAIN WATER LEADER		
<b>└</b>	CONTROL VALVE (2-WAY)	⊱—140°—	HOT WATER (140°)	Ş—RPZ]——Ş	REDUCED PRESSURE BACKFLOW PREVENTOR		
<b>├</b>	CONTROL VALVE (3-WAY)	⊱HWRC	HOT WATER RECIRCULATION PIPING (120°) (ABOVE GRADE)	0	ROOF DRAIN		
	COLD WATER (ABOVE GRADE)	⊱—120°—∹	HOT WATER RECIRCULATION PIPING (120°) (BELOW GRADE)		SIDEWALL PENDENT TYPE SPRINKLER HEAD		
⊱—_CW—-	COLD WATER (BELOW GRADE)	⊱—HWS—	HOT WATER HEATING SUPPLY	⊱—SAN—⊹	SANITARY SEWER LINE (ABOVE GRADE)		
⊱—CW-H—	COLD WATER - HARD	⊱—HWR—	HOT WATER HEATING RETURN	⊱—SAN—	SANITARY SEWER LINE (BELOW GRADE)		
⊱— E →	EXISTING (SAN, HW, CW, ETC.)	⊱—IG—⊰	INTERRUPTIBLE GAS PIPING	••••	SECURITY BARS		
C+-	FIN TUBE RADIATION	⊱—LPG—∹	LIQUID PROPANE GAS	⊱—SMS—	SNOW MELTING SYSTEM SUPPLY		

PLUMBING ABBREVIATIONS  NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THIS PROPERTY.										
ABBR.	DESCRIPTION	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION					
AFF	ABOVE FINISHED FLOOR	FOS	FUEL OIL SUPPLY	NG	NATURAL GAS					
AFG	ABOVE FINISHED GRADE	FOR	FUEL OIL RETURN	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED					
BWV	BACK WATER VALVE	FTR	FINNED TUBE RADIATION	ORWL	OVERFLOW RAIN WATER LEADER					
BV	BALL VALVE	GM	GAS METER	ORD	OVERFLOW ROOF DRAIN					
ВВ	BASEBOARD RADIATION	G	GAS PIPING	ОХ	OXYGEN PIPING					
BF	BUTTERFLY VALVE	GV	GATE VALVE	RWL	RAIN WATER LEADER					
CV	CHECK VALVE	GLV	GLOBE VALVE	RPZ	REDUCED PRESSURE BACKFLOW PREVENTOR					
CWS	CHILLED WATER SUPPLY	HPC	HIGH PRESSURE CONDENSATE	R	GAS PRESSURE REGULATOR					
CWR	CHILLED WATER RETURN	HPS	HIGH PRESSURE STEAM SUPPLY	RD	ROOF DRAIN					
СО	CLEAN OUT	н	WALL HYDRANT	SAN	SANITARY SEWER					
CA	COMPRESSED AIR	НВ	HOSE BIBB	SMS	SNOW MELTING SYSTEM SUPPLY					
CD	CONDENSATE DRAIN	HWFU	HOT WATER FIXTURE UNITS	SMR	SNOW MELTING SYSTEM RETURN					
CS	CONDENSER WATER SUPPLY	HW	HOT WATER	SF	SQUARE FEET					
CR	CONDENSER WATER RETURN	HW-H	HOT WATER - HARD	SFU	SUPPLY FIXTURE UNITS					
CV	CONTROL VALVE	HWRC	HOT WATER RECIRCULATION	ST	STORM SEWER					
CW	COLD WATER	HWS	HOT WATER SUPPLY	TW	TEMPERED WATER					
CW-H	COLD WATER - HARD	HWR	HOT WATER RETURN	TYP.	TYPICAL					
CWFU	COLD WATER FIXTURE UNITS	HWV	HOT WATER VALVE	DN	DOWN					
DFU	DRAINAGE FIXTURE UNITS	IE	INVERT ELEVATION	V	VENT					
E	EXISTING (SAN, HW, CW, ETC.)	LPC	LOW PRESSURE CONDENSATE	VA	VACUUM LINE					
FFE	FINISH FLOOR ELEVATION	LPS	LOW PRESSURE STEAM SUPPLY	VTR	VENT THRU ROOF					
FL	FIRE LINE	LPG	LIQUID PROPANE GAS	wco	WALL CLEAN OUT					
FCO	FLOOR CLEAN OUT	MPC	MEDIUM PRESSURE CONDENSATE	WM	WATER METER					
FD	FLOOR DRAIN	MPS	MEDIUM PRESSURE STEAM SUPPLY	YCO	YARD CLEAN OUT					

## **GENERAL PLUMBING NOTES**

- A. THESE GENERAL NOTES SHALL APPLY TO ALL PLUMBING DRAWINGS.
- B. PLUMBING CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES
- BETWEEN THE 'AS-BUILT' CONDITIONS AND THESE DRAWINGS. C. ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH 2015 MINNESOTA PLUMBING CODE (SEE MINNESOTA RULES, CHAPTER 4714).
- D. EXISTING ITEMS TO REMAIN ARE SHOWN LIGHT. NEW ITEMS ARE SHOWN DARK.
- E. ANY WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THIS WORK SHALL BE REPAIRED TO EXISTING OR LIKE-NEW CONDITION. F. COORDINATE UNDERGROUND PIPING SYSTEMS WITH FOUNDATION CONTRACTOR PRIOR TO INSTALLATION.
- G. PLUMBING CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL EQUIPMENT AND PIPING TO FIT WITHIN THE SPACE ALLOWED BY ARCHITECTURAL AND STRUCTURAL CONDITIONS. PROVIDE PIPE OFFSETS AND TRANSITIONS AS REQUIRED TO ACCOMMODATE STRUCTURE AND ARCHITECTURE. CUTTING OR OTHERWISE ALTERING STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.
- H. ALL PLUMBING EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- I. A CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH WASTE OR SOIL STACK AND AS REOUIRED BY CODE. J. SEE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL PLUMBING FIXTURE CONNECTION SIZE REQUIREMENTS.
- K. SEE SHEETS PXXX FOR ALL DRAIN, WASTE, VENT, AND DOMESTIC WATER PIPING ISOMETRICS. L. COORDINATE ALL PLUMBING PIPING AND EQUIPMENT WITH HVAC, ELECTRICAL, AND FIRE SUPPRESSION.
- M. CHANGES IN DIRECTION IN DRAINAGE PIPING MUST BE MADE BY APPROPRIATE WYES AND BENDS. SANITARY TEES ARE NOT ALLOWED WHERE THE DIRECTION
- OF FLOW CHANGES FROM EITHER VERTICAL TO HORIZONTAL OR HORIZONTAL TO HORIZONTAL. N. ALL HORIZONTAL BRANCH DRAINS SHALL BE UNIFORMLY PITCHED AT 1/4-INCH PER FOOT (SEE MINNESOTA RULES, CHAPTER 4714, SECTION 708.1).
- O. THE BUILDING SEWER MUST BE INSTALLED WITH A UNIFORM SLOPE OF AT LEAST 1/4-INCH PER FOOT (SEE MINNESOTA RULES, CHAPTER 4714, SECTION 718.1). WHERE MUNICIPAL SEWER DEPTH, STRUCTURAL FEATURES, OR BUILDING ARRANGEMENT PRECLUDE THIS SLOPE, A SLOPE OF 1/8-INCH PER FOOT MINIMUM MAY BE UTILIZED IF APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- P. PLUMBING DESIGN SHALL COMPLY WITH MINNESOTA RULES, CHAPTER 4714, SECTION 711.0 REGARDING SUDS RELIEF.
- Q. ALL SINKS, EXCEPT FOR LAVATORIES AND PRIVATE-USE BAR SINKS, MUST BE PROVIDED WITH 2-INCH MINIMUM VERTICAL FIXTURE DRAINS (SEE MINNESOTA RULES, CHAPTER 4714, TABLES 702.1 AND 703.2). LAUNDRY TUBS, DOMESTIC CLOSTHES WASHERS, AND URINALS REQUIRE 2-INCH MINIMUM VERTICAL DRAINS.
- R. WATER SUPPLY CONNECTIONS TO FIXTURES OR EQUIPMENT WHICH HAVE INLETS BELOW THE SPILL LINE MUST BE PROVIDED WITH AN APPROVED BACKFLOW PREVENTER (SEE MINNESOTA RULES, CHAPTER 4714, SECTION 602.3).
- S. DOMESTIC TYPE DISHWASHERS MUST DISCHARGE INDIRECTLY THROUGH AN ASSE 1021 OR IAPMO PS23-2006A LISTED AIR GAP FITTING (SEE MINNESOTA RULES, CHAPTER 4714, SECTION 414.3 AND 807.4). THE DISCHARGE MAY BE ROUTED TO A WASTE RECEPTOR, TO A WYE BRANCH FITTING ON A KITCHEN SINK TAILPIECE, OR TO THE DISHWASHER CONNECTION OF A FOOD WASTE GRINDER. IF DISCHARGING TO A SINK TAILPIECE OR FOOD WASTE GRINDER, THE FLOOD LEVEL MARKING ON THE AIR GAP FITTING MUST BE AT OR ABOVE THE FLOOD LEVEL OF THE SINK OR DRAINBOARD, WHICHEVER IS HIGHER.
- T. ELEVATOR PIT DRAINS MUST BE DESIGNED TO DRAIN DRY AND MUST DISCHARGE INDIRECTLY TO THE SANITARY SEWER BY A CONNECTION PRECLUDING SEWAGE BACKUP INTO THE PIT (SEE MINNESOTA RULES, CHAPTER 4714, SECTIONS 418.6 AND 710.4).
- U. THE CONNECTION TO AN AUTOMATIC CLOTHES WASHER MUST BE PROTECTED BY THE USE OF AN AIR GAP OR AN APPROVED BACKFLOW PREVENTER (SEE MINNESOTA RULES, CHAPTER 4714, SECTION 602.3). A CLOTHES WASHER MUST DISCHARGE INDIRECTLY TO A STANDPIPE OR LAUNDRY TUB (SEE MINNESOTA RULES, CHAPTER 4714, TABLE 702.1 AND SECTION 804.1).
- V. IN NO CASE SHALL WATER FROM A ROOF BE ALLOWED TO FLOW UPON THE PUBLIC SIDEWALK (SEE MINNESOTA RULES, CHAPTER 4714, SECTION 1101.1).
- W. INSTALL CLEANOUTS LOCATED IN SIDEWALK, PAVED OR GREEN AREAS FLUSH WITH FINAL FINISHED SURFACE. X. WALL HYDRANTS MUST MEET ASSE STANDARD 1019 (SEE MINNESOTA RULES, CHAPTER 4714, TABLE 603.2).
- Y. FIXTURE VENTS MUST RISE WITHIN 45-DEGREES FROM THE VERTICAL AT LEAST 6-INCHES ABOVE THE FLOOD LEVEL BEFORE OFFSETTING HORIZONTALLY OR
- CONNECTING TO A BRANCH VENT (SEE MINNESOTA RULES, CHAPTER 4714, SECTION 905.3).
- Z. ALL ISOLATION VALVES SHALL BE LOCATED IN ACCESSIBLE LOCATIONS. AA. LOCATE GAUGES AND THERMOMETERS FOR EASE OF OBSERVATION.
- BB. VALVES SHALL BE INSTALLED PERMITTING THE WATER SUPPLY TO EACH ROOM OR INDIVIDUAL FIXTURE TO BE SHUT OFF WITHOUT DISRUPTING ANY OTHER PORTION OF THE BUILDING.
- CC. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS AND IN WALL STRUCTURES TO ALLOW ADEQUATE ROOM FOR MAINTENANCE OF EQUIPMENT AND
- BALANCING OF SYSTEMS. COORDINATE EXACT SIZES AND LOCATIONS OF ACCESS PANELS WITH ARCHITECT DURING THE SHOP DRAWING PROCESS. DD. PROVIDE HWRC BALANCING ASSEMBLIES AS REQUIRED TO MAINTAIN DOMESTIC HOT WATER FLOW TO ALL APPLICABLE PLUMBING FIXTURES AND AS SHOWN ON
- EE. INSULATE PIPING PER ENERGY CODE REQUIREMENTS.
- FF. VERIFY PLUMBING FIXTURE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN AND INSTALLATION. GG. PLUMBING WORK SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. COORDINATE WITH ELECTRICAL CONTRACTOR TO MAINTAIN ALL CODE
- REQUIRED ELECTRICAL CLEARANCES. HH. PAINT ALL VTR'S FLAT BLACK AND TERMINATE NOT LESS THAN 12-INCHES ABOVE ROOF.
- II. OFFSET VENT PIPING AS NEEDED TO BE LOCATED A MINIMUM OF 10-FEET AWAY OR 3-FEET ABOVE OUTSIDE AIR INTAKES AND AS REQUIRED BY CODE.
- JJ. A BUILDING'S VENT PIPES MUST HAVE A TOTAL CROSS-SECTIONAL AREA NOT LESS THAN THE AREA OF THE LARGEST REQUIRED BUILDIN SEWER (SEE MINNESOTA RULES, CHAPTER 4714, SECTION 904.1). VERIFY THAT THIS REQUIREMENT IS MET.
- KK. FLASH AND SEAL ALL ROOF PENETRATIONS TO MAKE WATERTIGHT. LL. THE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PER MINNESOTA RULES, CHAPTER 4714, SECTION 609.9.
- MM. THE PLUMBING SYSTEM SHALL BE TESTED IN ACCORDANCE WITH MINNESOTA RULES, CHAPTER 4714, SECTIONS 609.4, 712.0, AND 1109.0.
- NN. ALL PLUMBING SYSTEMS SHALL COMPLY WITH THE CURRENT MINNESOTA COMMERCIAL ENERGY CODE. COMPLIANCE PATH SHALL BE VIA 2018 IECC UNLESS
- NOTED OTHERWISE. OO. VERIFY THAT THE EXISTING DRAIN, WASTE, VENT AND DOMESTIC WATER SYSTEMS ARE SIZED TO ACCOMMODATE THE ADDED FIXTURES. PP. IT IS RECOMMENDED THAT A CLEANOUT BE PROVIDED WHERE NEW WASTE AND VENT PIPING CONNECTS WITH EXISTING PLUMBING TO FACILITATE REQUIRED
- TESTING OF THE NEW INSTALLATION. QQ. THE ALTERATION AND REUSE OF EXISTING PLUMBING IS NOT ALLOWED UNLESS IT MEETS THE CURRENT RULES SET FORTH IN THE MINNESOTA PLUMBING CODE
- (SEE MINNESOTA RULES, CHAPTER 4714.0101, SUBPARTS 2 AND 3). RR. REFER TO ARCHITECTURAL DRAWINGS FOR ALTERNATES AND PHASING OF CONSTRUCTION WORK.

### **GENERAL PLUMBING DEMO NOTES**

- A. THESE GENERAL DEMOLITION NOTES SHALL APPLY TO ALL
- B. DEMOLITION DRAWINGS ARE DIAGRAMMATIC AND ARE BASED ON LIMITED FIELD OBSERVATIONS AND EXISTING RECORD DRAWINGS. PLUMBING CONTRACTOR SHALL VERIFY ALL THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN THE 'AS-BUILT' CONDITIONS AND THESE DRAWINGS. PROVIDE ADDITIONAL DEMOLITION AS REQUIRED BASED ON ACTUAL
- C. ALL DEMOLITION WORK SHALL BE PERFORMED WITH DUE CARE AND DILIGENCE TO PREVENT THE UNNECESSARY DESTRUCTION AND/OR DAMAGE TO SYSTEMS THAT SHALL REMAIN IN
- D. ALL HATCHED ITEMS DENOTE REMOVAL OR RELOCATION.
- E. EXISTING INSULATION DAMAGED DURING DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE REPAIRED WITH SIMILAR
- F. ALL OPENINGS THROUGH WALLS AND FLOOR SLABS NOT BEING RESUED SHALL BE PATCHED WITH LIKE MATERIALS TO MATCH EXISTING. WHERE FIRE RATED ASSEMBLIES ARE OPENED, CUT, OR OTHERWISE DAMAGED THEY SHALL BE REPAIRED AND
- G. ALL OPENINGS THROUGH ROOF NOT BEING REUSED SHALL BE
- H. PLUMBING CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND RE-INSTALLATION OF EXISTING CEILING TILES NOT REMOVED BY THE GENERAL CONTRACTOR. REFER TO ARCHITECTURAL PLANS FOR EXTENT OF CEILING WORK BY THE GENERAL CONTRACTOR. PLUMBING CONTRACTOR SHALL REPLACE ANY EXISTING CEILING

- WHERE PIPING IS SHOWN TO BE DEMOLISHED, IT SHALL BE REMOVED BACK TO THE PIPE MAINS AND CAPPED AT THAT POINT
- M. RELOCATE, MODIFY, AND/OR RE-ROUTE EXISTING VENT PIPING AND VTR'S AS REQUIRED TO ACCOMMODATE NEW ROOF MOUNTED MECHANICAL EQUIPMENT. COORDINATE WITH DIVISION 23 AND ROOFING CONTRACTOR.
- PHASING OF CONSTRUCTION WORK.

- PLUMBING DEMOLITION DRAWINGS. EXISTING CONDITIONS PRIOR TO BEGINNING WORK AND NOTIFY
- FIELD CONDITIONS.
- OPERATION AFTER THIS WORK.
- EXISTING ITEMS TO REMAIN ARE SHOWN LIGHT.
- PATCHED WITH LIKE MATERIALS AND SEALED WATERTIGHT.
- TILES OR GRIDS DAMAGED DURING CONSTRUCTION. RELOCATE AS NECESSARY ANY EXISTING DRAIN, WASTE, VENT, AND DOMESTIC WATER PIPING FOUND PASSING THROUGH THE AREA OF CONSTRUCTION WHICH PRESENTLY SERVE OTHER PORTIONS OF THE BUILDING UNAFFECTED BY THIS PROJECT IN ORDER TO MAINTAIN THE CONTINUITY OF EXISTING SYSTEMS
- AND TO CONCEAL THEM ABOVE NEW CEILINGS. ANY EXISTING DRAIN, WASTE, VENT, AND DOMESTIC WATER PIPING WHICH IS WITHIN THE AREA OF CONSTRUCTION AND SHOWN TO REMAIN BUT FOUND TO BE DAMAGED SHALL BE REPLACED WITH NEW MATERIALS CONFORMING TO THESE
- CONTRACT DOCUMENTS. ALL EQUIPMENT, DEVICES, AND MATERIALS REMOVED DURING DEMOLITION WORK AND NOT INDICATED TO BE REUSED OR TURNED OVER TO THE OWNER SHALL BECOME THE
- RESPONSIBILITY OF THE PLUMBING CONTRACTOR FOR DISPOSAL. UNLESS NOTED OTHERWISE.
- N. REFER TO ARCHITECTURAL DRAWINGS FOR ALTERNATES AND
- O. THE GENERAL DESIGN INTENT IS FOR ALL EXISTING GALVANIZED DOMESTIC WATER PIPING TO BE REMOVED AND REPLACED UNLESS NOTED OTHERWISE.

### PLUMBING DRAWING LIST SHEET **NUMBER** SHEET NAME

PLUMBING	
P0.01	PLUMBING SYMBOLS AND LEGEND
P1.01	PLUMBING DEMO PLANS
P2.01	PLUMBING RENOVATION PLANS
P3.01	PLUMBING ISOMETRICS
P7.01	PLUMBING DETAILS
P8.01	PLUMBING SCHEDULES



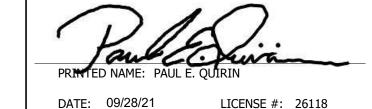
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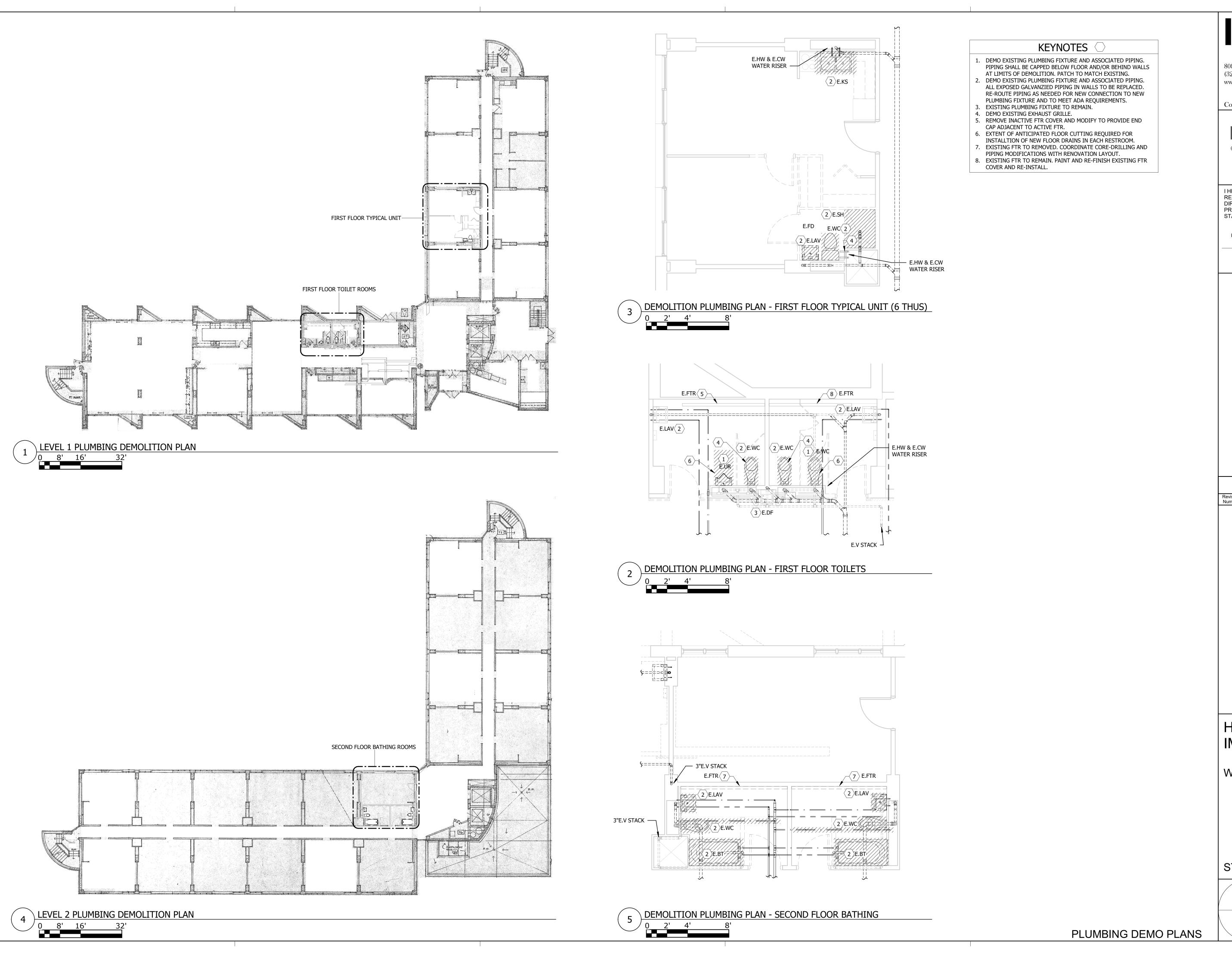
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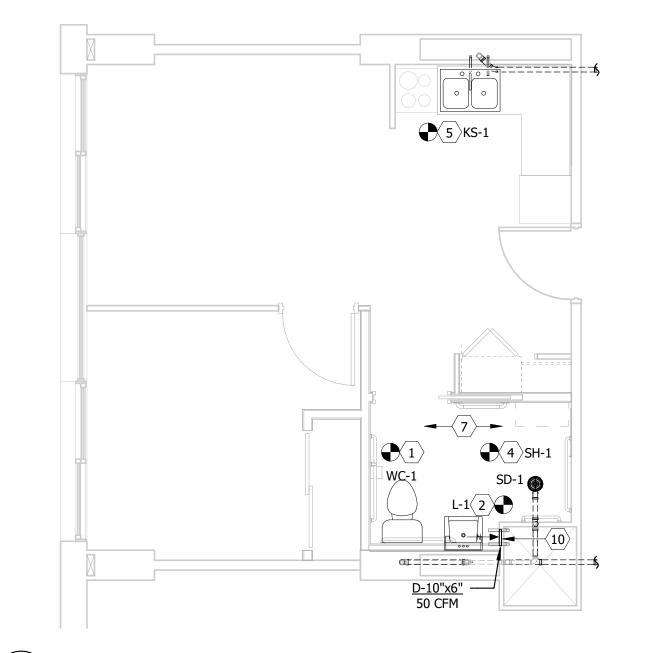
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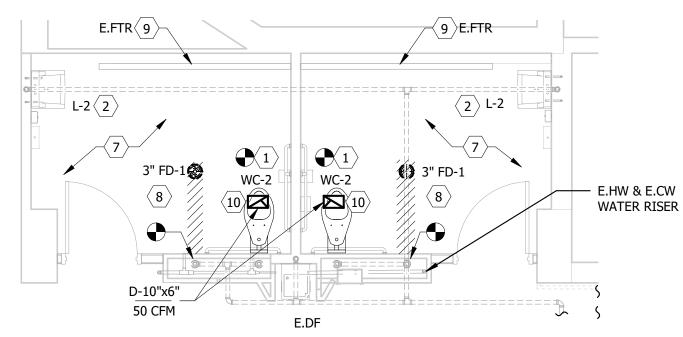
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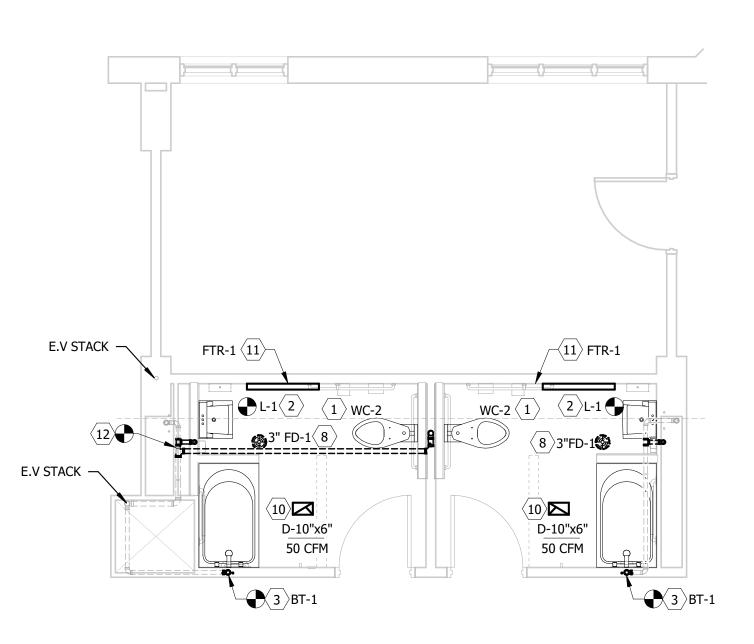
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P1.01



# NEW CONSTRUCTION - FIRST FLOOR UNIT PLUMBING PLAN (6 THUS)



# NEW CONSTRUCTION - FIRST FLOOR TOILET ROOMS PLUMBING PLAN



NEW CONSTRUCTION - SECOND FLOOR BATHING ROOMS PLUMBING PLAN

## **KEYNOTES**

- 1. CONNECT NEW WATER CLOSET TO 4"E.SAN, 2"E.V, 1 1/4"E.CW. FIELD VERIFY SIZE AND LOCATION.
- 2. CONNECT NEW LAVATORY TO 2"E.SAN, 1 1/2"E.V, 1/2"E.HW&CW. FIELD VERIFY SIZE AND LOCATION.
- 3. CONNECT NEW BATH TUB TO 2"E.SAN, 1 1/2"E.V, 1/2"E.HW&CW.
- FIELD VERIFY SIZE AND LOCATION. 4. CONNECT NEW SHOWER TO 2"E.SAN, 1 1/2"E.V, 1/2"E.HW&CW.
- FIELD VERIFY SIZE AND LOCATION. 5. CONNECT NEW KITCHEN SINK TO 2"E.SAN, 1 1/2"E.V,
- 1/2"E.HW&CW. FIELD VERIFY SIZE AND LOCATION. NOT USED.
- 7. REROUTE FIRE SUPPRESSION PIPING AND HEADS AS NEEDED FOR REMODELED AREA. REFER TO FIRE SUPPRESSION SPECIFICATIONS. 8. CONNECT NEW FLOOR DRAIN TO EXISTING SANITARY AND VENT
- PIPING. FIELD VERIFY LOCATION. COORDINATE FLOOR CUTTING AND PATCHING WITH ARCHITECTURAL AS REQUIRED. 9. REINSTALL EXISTING FTR COVER FOLLOWING REFINISHING /
- REPAINTING. 10. CONNECT NEW TYPE 10"x6" EXHAUST GRILLES TO EXISTING
- EXHAUST DUCTWORK (SIDEWALL OR CEILING). 11. PROVIDE NEW FTR-1 AS SCHEDULED. CORE-DRILL NEW HWS & HWR PIPING FROM 1ST LEVEL AS NEEDED TO ACCOMMODATE NEW FTR LOCATION. MODIFY EXISTING PIPING TO MAINTAIN ADA CLEARANCES FROM ALL NEW PLUMBING FIXTURES.

COORDINATE WITH ARCHITECTURAL.

12. COORDINATE ROUTING OF VENT PIPING ABOVE CEILING AND CEILING DEMOLITION WITH ARCHITECTURAL.



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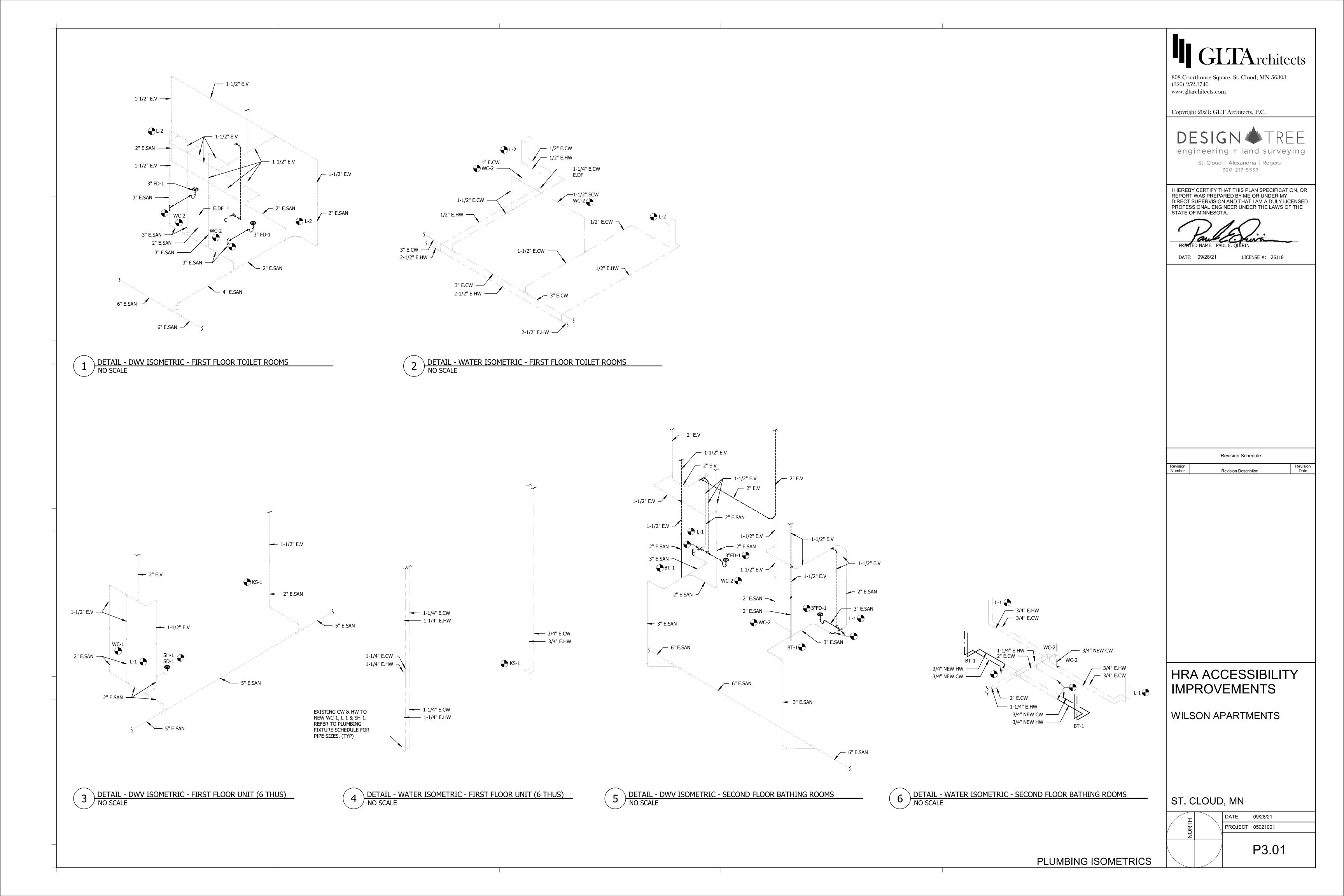
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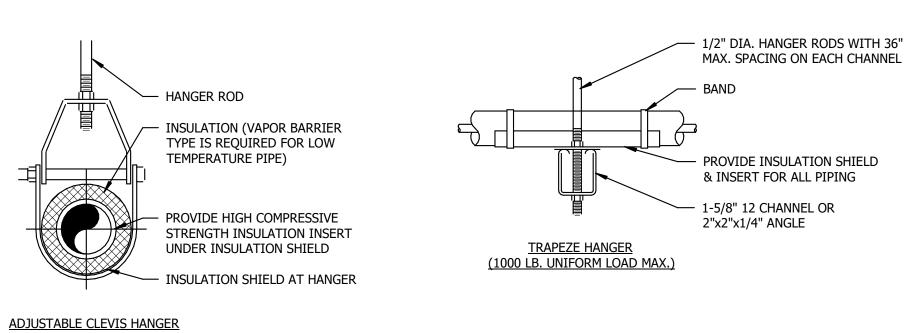
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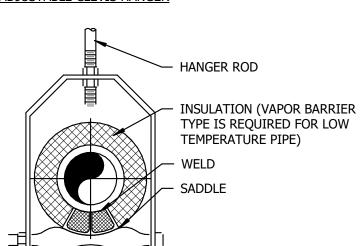
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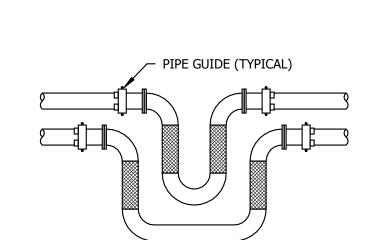






ADJUSTABLE ROLLER HANGER

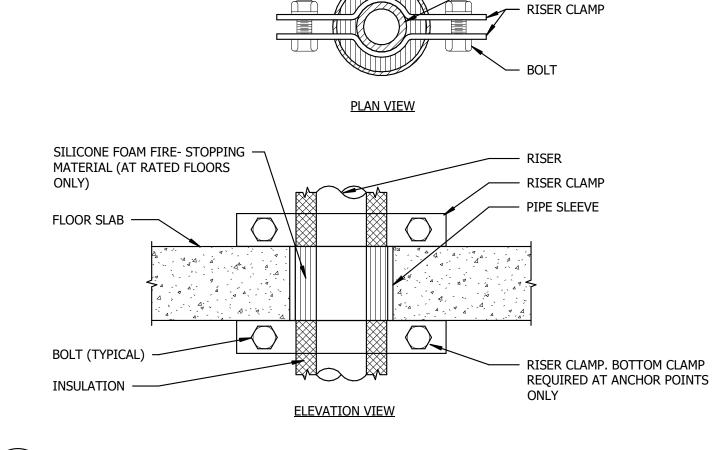
NO SCALE



DETAIL NOTES:

1. INSTALL GUIDES AND ANCHOR POINTS AS PER FLEX LOOP MANUFACTURER.

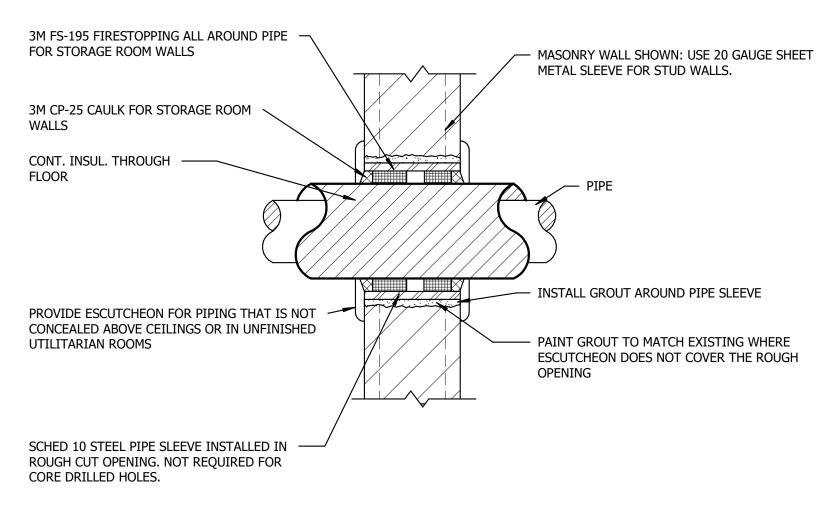


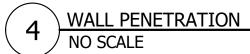


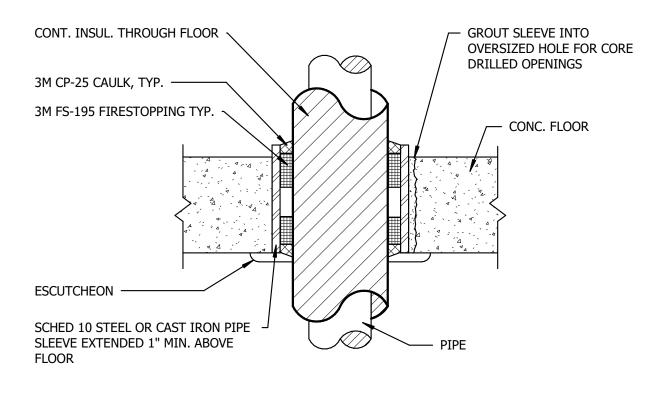
PIPE SLEEVE

3 VERTICAL SUPPORT/ANCHOR FOR PIPE RISER DETAIL NO SCALE

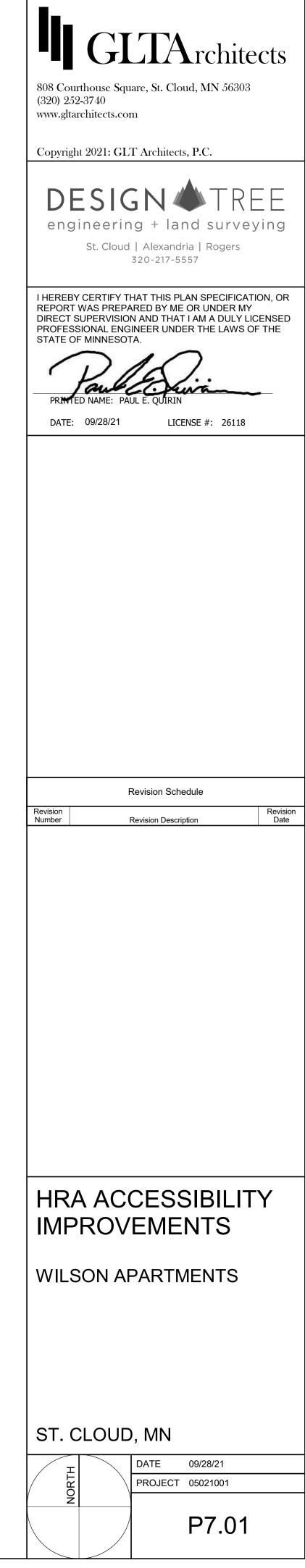
SILICONE FOAM FIRE- STOPPING — MATERIAL (AT RATED FLOORS







5 FLOOR PENETRATION
NO SCALE



PLUMBING DETAILS

# PLUMBING FIXTURE DEMAND SCHEDULE (NEW)

SANITARY SEWER DEMAND	-	-	31.5 TOTAL D.F.U		
DOMESTIC WATER DEMAND	10.875 HOT S.F.U.	36.375 COLD S.F.U.	40 TOTAL S.F.U.		

					I			
ITEM	DESCRIPTION	FIXTURE	TRIM	WASTE	VENT	НОТ	COLD	NOTES
WC-1	TANK TYPE WATER CLOSET-ADA UNIT	PROFLO PF1606PAWH/PF1612PAWH	PROFLO PFTSEC2000WH	E.4"	E.2"	-	E.1/2"	1,3,4,10
WC-2	FLOOR MOUNTED FLUSHVALVE WATER CLOSET - ADA	PROFLO PF1721	PROFLO PFTSC0F2000WH, SLOAN 111-1.6	E.4"	E.2"	-	E.1"	1,3,4,10
L-1	WALL HUNG LAVATORY - ADA UNIT	PROFLO PF5514WH	PROFLO PFWSC3006CP	E.2"	E.1 1/2"	E.1/2"	E.1/2"	1,2,3,5,9,10
L-2	WALL HUNG LAVATORY - ADA	PROFLO PF5514WH	SLOAN SF2350	E.2"	E.1 1/2"	E.1/2"	E.1/2"	1,2,3,5,9,10
KS-1	DOUBLE BOWL SINK - ADA UNIT	PROFLO PFSR332263	PROFLO PFXC3101CP	E.2"	E.1 1/2"	E.1/2"	E.1/2"	1,3
BT-1	TUB - ADA PACKAGE	AMERICAN STANDARD 32520D.709.SXX	INCLUDED IN BASE MODEL	2"	1 1/2"	1/2"	1/2"	1,3,6
SH-1	SHOWER - ADA UNIT	SEE SD-1	DELTA R10700-UNWS, DELTA T13H322	E.2"	E.1 1/2"	E.1/2"	E.1/2"	1,3,6,7,8
SD-1	SQUARE SHOWER DRAIN	WATTS SD	-	E.2"	E.1 1/2"	-	-	3
FD-1	ROUND FLOOR DRAIN	WATTS FD-100-A	-	3"	2"	-	-	3

- . PIPE SIZING INDICATED IN SCHEDULE, UNLESS OTHERWISE NOTED ON PLAN.
- 2. ALL TRAP & WASTE SHALL BE INSULATED AND OFFEST TO BE ADA COMPLIANT.
- 3. VERIFY ROUGH-IN PRIOR TO PURCHASE OF PLUMBING FIXTURE.
- 4. FLUSH HANDLE SHALL BE LOCATED TO MEET ADA REQUIREMENTS.
- 5. PROVIDE THERMOSTATIC MIXING VALVE THAT CONFORMS TO ASSE 1070 AND LIMITS TEMPERED WATER TO A MAX. 110°F. (MODEL LEONARD 170A-LF)
- 6. A WATER SUPPLY LINE TO A HAND HELD SHOWER SPRAY SHALL BE PROTECTED AGAINST BACKFLOW BY THE USE OF AN IN-LINE VACUUM BREAKER.
- SHOWERS AND COMBINATION SHOWER-BATHS SHALL BE EQUIPPED WITH ANTI-SCALD CONTROL VALVES. THESE VALVES MUST BE OF THE THERMOSTATIC OR PRESSURE BALANCE TYPE IN ACCORDANCE WITH ANSI/ASSE STANDARD 1016-96. THE INSTALLER MUST... THAT THE TEMPERATURE SETTING FROM THE FACTORY IS SET OR ADJUSTED IN ACCORDANCE WITH THE STANDARD. IT IS RECOMMENDED THAT THE MAXIMUM SETTING OF THE DISCHARGE TEMPERATURE DOES NOT EXCEED 110°F.
- FOR ADA COMPLIANCE, PROVIDE GRAB BARS AND FOLD-UP SEAT.
- 9. PROVIDE WALL MOUNTED FIXTURE CARRIER.
- 10. COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL.

DIFFU	SER &	GRIL	LE LEGEND
DIFFUSER/GRILLE			
TYPE (SEE SCHEDULE)	Α	8	THROAT DIAMETER OR SIZE
CUBIC FEET PER MINUTE	180	SA	TYPE OF AIR FLOW
(CEM)			

		DIFFUS	ER, R	EGISTER, AND G	RILLE SC	CHEDULI	E	
UNIT TAG	ТҮРЕ	MFGR.	MODEL	DESCRIPTION	MATERIAL	FINISH	ACCESSORIES	NOTES
D	EXHAUST GRILLE	TITUS	350RL	WALL OR CEILING-MOUNTED	STEEL	WHITE	-	-
NOTES:					•			·

	FINNED-TUBE RADIATION SCHEDULE																				
PERFORMANCE DATA  CONSTRUCITON DATA																					
						HEATING CAP	PACITY		WATER	DATA			FI	NS							
UNIT TAG	MFGR.	MODEL	ENCLOSURE TYPE	ROOM AIR DB (°F)	NOMINAL OUTPUT (BTU/H-FT)	NET CORREC. FACTOR	OPERATING OUTPUT (BTU/H-FT)	FLUID FLOW TYPE (GPM)	VEL. (FPS)	PD (FT/100 FT)	AWT (°F)	MATERIAL	NO./LIN.FT.	FIN SIZE (IN)	THICKNESS (IN)	CONNECTION PIPE SIZE (IN)	TIERS	ENCL. HEIGHT (IN)	MOUNT HEIGHT (IN)	FINISH	NOTES
FTR-1	STERLING	VERSA-LINE JVA-T	TOP OUTLET	65 PER P	ANS 780	0.369	288	0.7	0.5	0.26	145.0	CU/AL	40	3-1/4X3-1/4	0.020	3/4	1	20	SEE PLANS	BY ARCH	1,2
NOTES:	T COLOD CHART				·				•												

1. SUBMIT COLOR CHART TO ARCHITECT.
2. EACH ROOM COVER TO EXTEND WALL TO WALL UNLESS SHOWN OTHERWISE. PROVIDE ALL END CAPS, MITERS, WALL TRIM AND FILLER SLEEVES REQUIRED FOR COMPLETE INSTALLATION.

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	POWER (-CONTINUED-)						COLLEMA TTO CYMAROL C
<u></u>		Х <del>-</del>	COMMUNICATIONS NUMBER OF PORTS/CABLES DATA OUTLET		NURSE CALL LIGHT - WALL MOUNT	(R1)	SCHEMATIC SYMBOLS
<u> </u>							RELAY COIL (NUMBER DENOTED)
	MOTOR, THREE PHASE				ZONE TYPE		NORMALLY OPEN CONTACT
	DISCONNECT/SAFETY SWITCH		VOICE/DATA OUTLET		SINGLE LAMP TYPE	0	NORMALLY CLOSED CONTACT
F	DISCONNECT/SAFETY SWITCH WITH FUSED OVERCURRENT PROTECTION	$- \bigcirc$	TELEVISION (TV) OUTLET		NURSE CALL - PULL SWITCH	مىه	THREE POSITION SELECTOR SWITCH (HAND-OFF-AUTO DENOTED
	MOTOR CONTROLLER WITH INTEGRAL DISCONNECT	9	CLOCK OUTLET		STATION	R PO	TWO POSITION SELECTOR SWITCH (RUN-OFF DENOTED)
ВР	ENCLOSED CIRCUIT BREAKER	IC	INTERCOM STATION	GRS-X <del>■</del>		- <b>®</b> -	PUSH TO TEST PILOT LIGHT (COLOR DENOTED)
H	HAND DRYER	<u> </u>	SPEAKER, WALL MOUNT	ASB N	NURSE CALL - AUDIO STATION BED CONNECTOR	- <u>R</u> -	PILOT LIGHT (COLOR DENOTED)
	FLOOR BOX - GANG AND DEVICES SHOWN ON PLANS	S	SPEAKER, CEILING MOUNT	NSC N	NURSE CALL - NURSE STATION CONSOLE	مله	PUSH BUTTON - NORMALLY CLOSED
—_MOA—		<u> </u>	MICROPHONE OUTLET	NCT	NURSE CALL TERMINAL		PUSH BUTTON - NORMALLY OPEN
( <u>•</u> )	GROUNDING BOND POINT		AUDIO/VIDEO OUTLET	MRQ	NURSE CALL MARQUEE	(TR)	TIMING RELAY
PP	POWER POLE		VOLUME CONTROL		NURSE CALL -		CLOSED SWITCH - TIME DELAY OPEN
	OLITDOOR RECEPTACLE PEDESTAL				STAFF LOCATOR	^	
<del>_</del>	IN-GRADE HAND HOLE	+ _					OPEN SWITCH - TIME DELAY CLOSED
	(LOCATION OF TEXT MAY VARY)					• <b>↓</b> •	CLOSED SWITCH - TIME DELAY CLOSED
<del></del>	WALL MOUNTED GROUND BUS	В	NOTIFICATION DEVICE	1		• <del>↓</del> •	OPEN SWITCH - TIME DELAY OPEN
			CABLE TRAY		INCOMING LINE	4	TEMPERATURE SWITCH - CLOSE ON RISING TEMPERATURE
	FIRE ALARM SYSTEMS	WAP	WIRELESS ACESS POINT	}	CIRCUIT BREAKER	45	TEMPERATURE SWITCH - OPEN ON RISING TEMPERATURE
F	FIRE ALARM STROBE			m m	TRANSFORMER	-\-	SOLENOID
₽	FIRE ALARM STROBE & HORN		SECURITY SYSTEMS	/	SINGLE THROW SWITCH	<u></u>	CONTROL POWER TRANSFORMER
Ę⋈	FIRE ALARM HORN	CR	CARD READER	#	DISCONNECTING FUSE	<del>-</del>	GROUND
<del>_</del>	FIRE ALARM STROBE & HORN	KP	KEY PAD		SWITCH AND FUSE	þ	OVERLOAD
		DC	DOOR CONTACT	<u>-</u>	FUSE		HEATER
				<del>                                     </del>	CURRENT TRANSFORMER		
			-	<del>                                     </del>			TERMINAL BLOCK
	CEILING MOUNT			+ -		•	CONNECTION NODE
(S) <sub>F</sub>	CEILING MOUNT		GLASS BREAK DETECTOR	_			
⑤ <sub>F/P</sub>	SPEAKER - CEILING MOUNT	TS	FIRE ALARM TAMPER SWITCH				KEYNOTE/LEGEND SYMBOLS
F	ALARM PULL STATION	EM	MECHANISM	10	AUTOMATIC TRANSFER SWITCH (ATS)	1	KEYED NOTE (NUMBER DENOTED)  EQUIPMENT DESCRIPTION
<u>(S)</u>	SMOKE DETECTOR		CCTV CAMERA (FIXED)	SSRV	SOLID STATE REDUCED VOLTAGE STARTER	AHU 1	EQUIPMENT TAG (REFER TO SCHEDULE)  EQUIPMENT NUMBER
$\langle H \rangle$	HEAT DETECTOR	<u>PTZ</u> ✓	CCTV CAMERA (PAN-TILT-ZOOM)	PM	POWER MONITOR	AHU1-A	EQUIPMENT NAME IDENTIFIER CONDUIT TAG (REFER TO SCHEDULE) CONDUIT IDENTIFIER
D	DUCT SMOKE DETECTOR			M	METER	X	REVISION (NUMBER DENOTED)
(0)	CARBON MONOXIDE DETECTOR		CONTROL	Image: control of the	HIGH VOLTAGE CIRCUIT BREAKER		
(S/CO)	COMBINATION SMOKE/CARBON MONOXIDE DETECTOR	(1)	LEVEL TRANSDUCER	<b>k</b>	DRAW OUT/BUSS STABS		GENERAL
FA	FIRE ALARM REMOTE ANNUNCIATOR			o <sup>LA</sup>	LIGHTNING ARRESTOR		CONDUIT/WIRE RUN - EXPOSED/SURFACE MOUNT
			·	<u> </u>	CAPACITOR		CONDUIT/WIRE RUN -
						$\cap$	CONCEALED/UNDERGROUND  JUNCTION BOX - CEILING MOUNT
					STARTER COMPLETE W/OVERLOADS		JUNCTION BOX - CEILING MOUNT SEE IDENTIFIERS FOR DUPLEX RECPETACLE
				<u> </u>	(NEMA SIZE DENOTED)		JUNCTION BOX - WALL MOUNT SEE IDENTIFIERS FOR DUPLEX RECPETACLE
	FIRE ALARM FLOW SWITCH		TEMPERATURE SWITCH/THERMOSTAT	[VFD]	AUNTURE I VEGOEINCI DRIAE (ALD)	, , ,	JUNCTION BOX - FLOOR MOUNT  JUNCTION BOX -
TS	FIRE ALARM TAMPER SWITCH	F	FLOOD SWITCH			_	EMERGENCY POWER SYSTEM
ММ	FIRE ALARM MONITOR MODULE		LEVEL (FLOAT) SWITCH				STUBBED END OF CONDUIT W/BUSHING
CM	FIRE ALARM CONTROL MODULE	D	MOTORIZED DAMPER				
		S	SOLENOID				
		E	EMERGENCY PUSHBUTTON STATION				
		<u>—</u>	CORD AND PLUG				
		•	CONTROL STATION				
							GENERAL LEGEND
						AC = AE	/EATHER PROOF WHILE IN-USE BOVE COUNTER I-GRADE HAND HOLE
		DISCONNECT/SAFETY SWITCH  DISCONNECT/SAFETY SWITCH WITH FUSED OVERCURRENT PROTECTION  MOTOR CONTROLLER  MOTOR CONTROLLER  ENCLOSED CIRCUIT BREAKER  PLOOR BOX - GANG AND DEVICES SHOWN ON PLANS  FLOOR BOX - GANG AND DEVICES SHOWN ON PLANS  MULTI-OUTLET ASSEMBLY  OUTDOOR RECEPTACLE PEDESTAL  HI IN-GRADE HAND HOLE (LOCATION OF TEXT MAY VARY)  THE ALARM STROBE  FIRE ALARM STROBE  FIRE ALARM STROBE & HORN  FIRE ALARM STROBE & HORN  FIRE ALARM STROBE & SPEAKER  LI FIRE ALARM STROBE & SPEAKER  DUAL COIL FIRE ALARM AND PAGING SPEAKER - CEILING MOUNT  LI GELLING MOUNT  SIMP DUAL COIL FIRE ALARM AND PAGING SPEAKER - CEILING MOUNT  LI ALARM PULL STATION  SOMOKE DETECTOR  DUCT SMOKE DETECTOR  COMBINATION SMOKE/CARBON MONOXIDE DETECTOR  COMBINATION SMOKE/CARBON MONOXIDE DETECTOR  COMBINATION SMOKE/CARBON MONOXIDE DETECTOR  COMBINATION SMOKE/CARBON MONOXIDE DETECTOR  THE ALARM REMOTE ANNUNCIATOR  FIRE ALARM REMOTE ANNUNCIATOR  FIRE ALARM REMOTE ANNUNCIATOR  FIRE ALARM REMOTE ANNUNCIATOR  FIRE ALARM FLOW SWITCH  FIRE ALARM HOW SWITCH  FIRE ALARM TAMPER SWITCH  FIRE ALARM MONITOR MODULE	MOTOR, SINGLE PHASE  □ DISCONNECT/SAFETY SWITCH □ DISCONNECT/SAFETY SWITCH WITH PUSED OVERCURRENT PROTECTION □ MOTOR CONTROLLER □ DINCLOSED CIRCUIT BREAKER □ HAND DRYER □ HAND DRYER □ HAND DRYER □ GROUNDING BOND POINT □ POWER POLE □ UITHON FERST MAY VARY) □ GROUNDING BOND POINT □ POWER POLE □ UITHON FIRE ALARM STROBE □ FIRE ALARM STROBE □ FIRE ALARM STROBE & HORN □ FIRE ALARM STROBE & HORN □ FIRE ALARM STROBE & SPEAKER □	☑ MOTOR, SINGLE PHASE         ☑ DATA OUTLET           ☑ MOTOR, THREE PHASE         ☑ DATA OUTLET           ☑ DISCONNECT, SAFETY SWITCH         ☑ VOICE, TELEPHONE, OUTLET           ☑ DISCONNECT, SAFETY SWITCH WITTH THE TRYSTO OVERCURSHIF PROTECTION         ☑ TELEVISION (TV) OUTLET           ☑ PATOR COATROLLER         ☑ CLOCK OUTLET           ☑ PAND DRYER         ☑ SPEAKER, WALL MOUNT           ☑ PAND DRYER         ☑ SPEAKER, WALL MOUNT           ☑ PAND DRYER         ☑ SPEAKER, WALL MOUNT           ☑ COR DOX - GAMG AND DEVICES         ☑ SPEAKER, WALL MOUNT           ☑ MULTI-OUTLET ASSEMBLY         ☑ MICROPHONE OUTLET           ☑ GROUNDING BOND POINT         ☑ AUDIQUADEO OUTLET           ☑ POWER POLE         ☑ PROJECTOR           ☑ OUTDOOR RECEPTACLE PEDESTAL         ☑ PROJECTOR           ☑ IN-GRADE HAND HOUE         ☑ PROJECTOR CONTROL           ☑ POWER POLE         ☑ PROJECTOR CONTROL           ☑ PROJECTOR CONTROL         ☑ PROJECTOR CONTROL           ☑ PROJECTOR CONTROL         ☑ PROJECTOR           ☑ HILL GAME STANDER         ☑ PROJECTOR CONTROL           ☑ PROJECTOR         ☑ PROJECTOR           ☑ PROJECTOR         ☑ PROJECTOR           ☑ PROJECTOR         ☑ CARD READER           ☑ PROJECTOR CONTROL         ☑ CARD READER <td< td=""><td>MOTOR, SINGLE PHASE  → MOTOR, THESE PHASE  → MOTOR, SANCH WITCH  □ DISCONNECT/SAVETY SWITCH WITCH  □ LISTO OWNECLASITY PROTECTION  → MOTOR, CORDING LESS  → MOTOR, CO</td><td>NOTES, TREE PRIVATE    VIOLES, TREE PRIVATE</td><td>  C   POTON, SANALA PROSEC</td></td<>	MOTOR, SINGLE PHASE  → MOTOR, THESE PHASE  → MOTOR, SANCH WITCH  □ DISCONNECT/SAVETY SWITCH WITCH  □ LISTO OWNECLASITY PROTECTION  → MOTOR, CORDING LESS  → MOTOR, CO	NOTES, TREE PRIVATE    VIOLES, TREE PRIVATE	C   POTON, SANALA PROSEC

			ELECTRICAL ABBRE				
1P	1 POLE (2P, 3P, 4P, ETC.)	FA FABP	FIRE ALARM FIRE ALARM BOOSTER POWER	MFR MFS	MANUFACTURER MAIN FUSED DISCONNECT	SS SSW	STAINLESS STEEL SELECTOR SWITCH
Α	AMPERE		SUPPLY PANEL		SWITCH	S/S	STOP/START PUSHE
AC	ABOVE COUNTER	FACP	FIRE ALARM CONTROL PANEL	MH	MANHOLE	STA	STATION
A/C	AIR CONDITIONER	FCU	FAN COIL UNIT	MIC	MICROPHONE	STD	STANDARD
	ABOVE CEILING	FIXT	FIXTURE	MIN	MINIMUM	SURF	SURFACE MOUNTED
	AUTOMATIC DOOR OPENER	FLR	FLOOR	MISC	MISCELLANEOUS	SW	SWITCH
						300	SWITCH
AF			FLUORESCENT	MLO	MAIN LUGS ONLY	CMDD	CMITCHDOADD
AFF	ABOVE FINISHED FLOOR	FRG	REFRIDGERATOR OR FREEZER	MMS	MANUAL MOTOR STARTER		SWITCHBOARD
		FU	FUSE	MOA	MULTIOUTLET ASSEMBLY	SYM	SYMMETRICAL
AFI	ARC FAULT CIRCUIT	FUDS	FUSED SAFETY DISCONNECT	MSP	MOTOR STARTER PANELBOARD	SYS	SYSTEM
	INTERRUPTER		SWITCH	MSBD	MAIN SWITCHBOARD	TEL	TELEPHONE
AHU	AIR HANDLING UNIT			MT	MOUNT	T/D	TELEPHONE/DATA
AL	ALUMINUM	GA	GAUGE	MT.C	EMPTY CONDUIT	TERM	TERMINAL
ALT	ALTERNATE	GAL	GALLON	MTS	MANUAL TRANSFER SWITCH	TL	TWIST LOCK
AMP	AMPERE	GALV	GALVANIZED	MTR	MOTOR, MOTORIZED	TR	TAMPER RESISTANT
	AMPLIFIER	GC	GENERAL CONTRACTOR	MW	MICROWAVE		THERMOSTAT
	ANNUNCIATOR	GEN	GENERATOR		1 1261(6 17) (12	TTC	TELEPHONE TERMIN
	APPROXIMATELY	GFI	GROUND FAULT CIRCUIT	N.C.	NORMALLY CLOSED		CABINET
	AQUASTAT	OI I	INTERRUPTER	N.C. NEC	NATIONAL ELECTRICAL CODE	TV	TELEVISION
		GFCI	GROUND FAULT CIRCUIT	NEC			TELEVISION TELEVISION TERMIN
	ARCHITECT, ARCHITECTURAL	GFCI		IN⊏IMA		IVIC	
AS	AMP SWITCH	CED	INTERRUPTER	NED C	MANUFACTURER'S ASSOCIATION	T) (D	CABINET
	AMP TRIP	GFP	GROUND FAULT PROTECTOR	NFDS	NON-FUSED SAFETY DISCONNECT	TYP	TYPICAL
	AUTOMATIC TRANSFER SWITCH	GND	GROUND		SWITCH		
	AUTOMATIC	GRS	GALVANIZED RIGID STEEL	NIC	NOT IN CONTRACT	UC	UNDER COUNTER
AUX	AUXILIARY		(CONDUIT)	NL	NIGHT LIGHT	UE	UNDERGROUND ELE
AV	AUDIO VISUAL	<b>GYPBD</b>	GYPSUM BOARD	N.O.	NORMALLY OPEN	UG	UNDERGROUND
AWG	AMERICAN WIRE GAUGE			NPF	NORMAL POWER FACTOR	UH	UNIT HEATER
		HOA	HANDS-OFF-AUTOMATIC SWITCH		NOT TO SCALE	UNO	UNLESS NOTED OTH
BATT	BATTERY		HORIZONTAL		1101 10 00.122	UT	UNDERGROUND TEL
BD	BOARD	HP	HORSEPOWER	ОН	OVERHEAD	UTIL	UTILITY
	BUILDING	HPF	HIGH POWER FACTOR	OL	OVERLOADS	UV	UNIT VENTILATOR (
BMS	BUILDING MANAGEMENT	HT	HEIGHT	OL	OVERLOADS	ΟV	
DIVIS				DA	DUDI IC ADDRECC		ULTRAVIOLET
	SYSTEM	HTG	HEATING	PA	PUBLIC ADDRESS		\(\alpha\) =
_	COMPLITE	HTR	HEATER	PB	PULL BOX OR PUSHBUTTON	V	VOLT
	CONDUIT	HV		PE			VOLT-AMPERES
	CABINET	HVAC	HEATING, VENTILATING AND	PED	PEDESTAL	VDT	VIDEO DISPLAY TER
	CATALOG		AIR CONDITIONING	PF	POWER FACTOR	VERT	
CATV	CABLE TELEVISION	HWP	HYDRONIC WATER PUMP	PH	PHASE	VFD	VARIABLE FREQUEN
СВ	CIRCUIT BREAKER			PIV	POST INDICATING VALVE	VOL	VOLUME
		IC	INTERRUPTING CAPACITY	PNL	PANEL		
		IG	ISOLATED GROUND	PP	POWER POLE	W	WATT
		IMC	INTERMEDIATE METAL CONDUIT		PAIR	W/	WITH
		INCD	INCANDESCENT	PRI	PRIMARY	WG	WIRE GUARD
		IR	INFRARED	PROJ	PROJECTION	WH	WATER HEATER
		I/W	INTERLOCK WITH	PRV	POWER ROOF VENTILATOR	W/O	WITHOUT
	CONSTRUCTION			PT	POTENTIAL TRANSFORMER	WP	WEATHERPROOF
	CONTINUATION OR CONTINUOUS	J-BOX		PVC	POLYVINYL CHLORIDE (CONDUIT)		
CONTR	CONTRACTOR	JB	JUNCTION BOX	PWR	POWER	XFMR	TRANSFORMER
	CONVECTOR					XFR	TRANSFER
CP		KVA	KILOVOLT-AMPERE	QUAN	QUANTITY		
			KILOVOLT-AMPERE REACTIVE		QUANTITY		
		KW	KILOWATT	٧.,	~~······		
				DCDT	DECEDTACI E		
	CORRER	KWH	KILOWATT HOUR		RECEPTACLE		
CU	COPPER	100	LOCATE OR LOCATION		REQUIRED		
<b>-</b>		LOC	LOCATE OR LOCATION	RM	ROOM	/	
DCP	DOMESTIC WATER CIRCULATING		LIGHT		RIGID STEEL CONDUIT	_	ANGLE
		LTG	LIGHTING	RTU	ROOF TOP UNIT	@	AT
DEPT	DEPARTMENT	LTNG	LIGHTNING			$\triangle$	DELTA
		LV	LOW VOLTAGE	SC	SURFACE CONDUIT	•	FEET
	DIAMETER	-	- ····-	SEC	SECONDARY	"	INCHES
		MAX	MAXIMUM	SHT	SHEET	#	NUMBER
				SIM			
			MAGNETIC STARTER		SIMILAR	Ø	PHASE LINE
DN	DOWN	M/C	MOMENTARY CONTACT	S/N	SOLID NEUTRAL	С	CENTER LINE
	DAMPER	MC	MECHANICAL CONTRACTOR		SPECIFICATION	Р	PLATE
DS	SAFETY DISCONNECT SWITCH	MCB	MAIN CIRCUIT BREAKER	SPKR	SPEAKER		
DT	DOUBLE THROW	MCC	MOTOR CONTROL CENTER	SP	SPARE		
	DRAWING	MDC	MAIN DISTRIBUTION CENTER	SR	SURFACE RACEWAY		
	-		MAIN DISTRIBUTION PANEL				

GLTArchitects

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DESIGN TREE engineering + land surveying

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I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: AARON R. MUELLER

DATE: 09/28/21 LICENSE #: 46184

HRA ACCESSIBILITY IMPROVEMENTS

Revision Schedule

Date

WILSON APARTMENTS

ST. CLOUD, MN

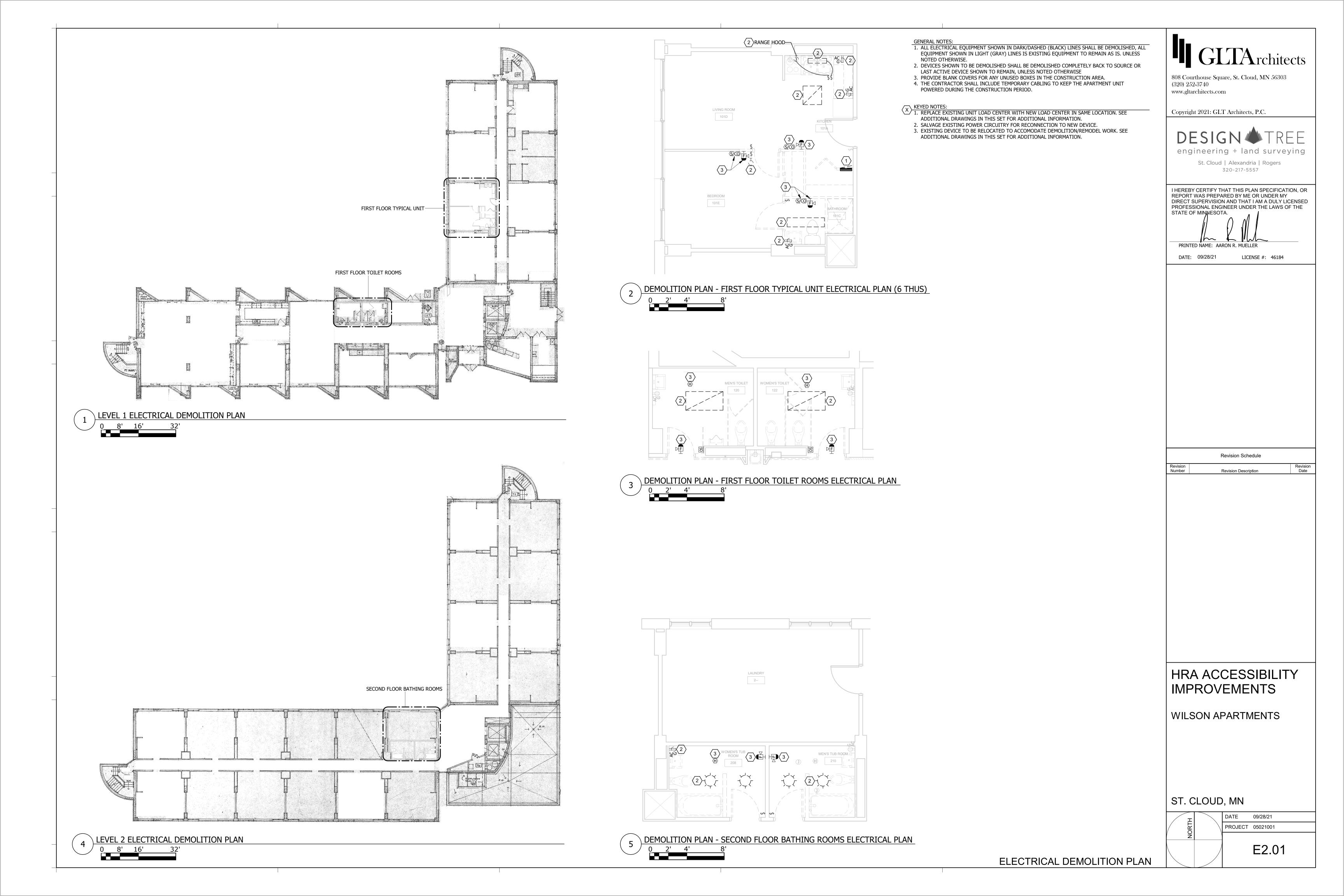
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PROJECT 05021001

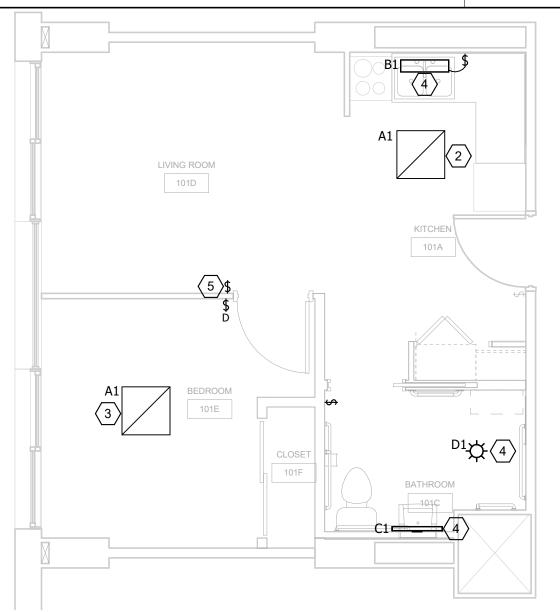
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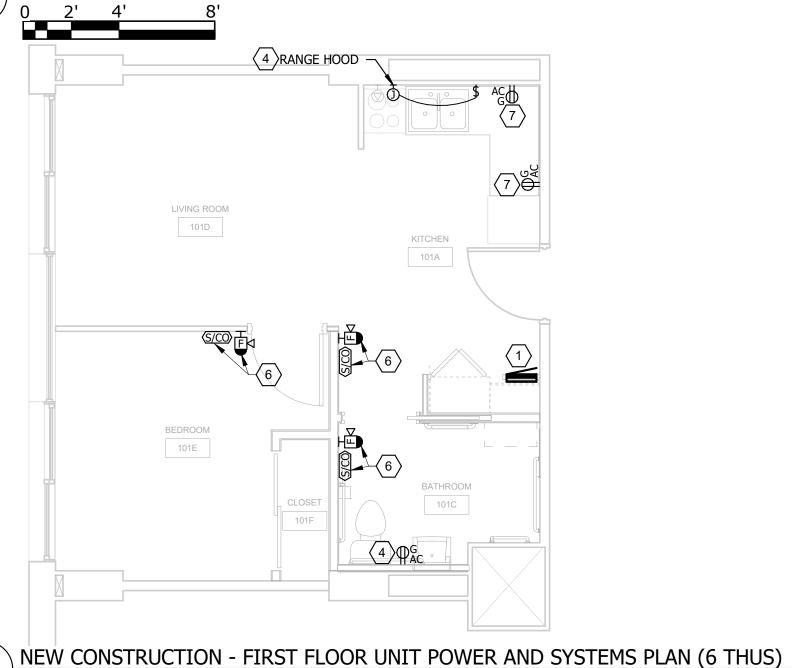
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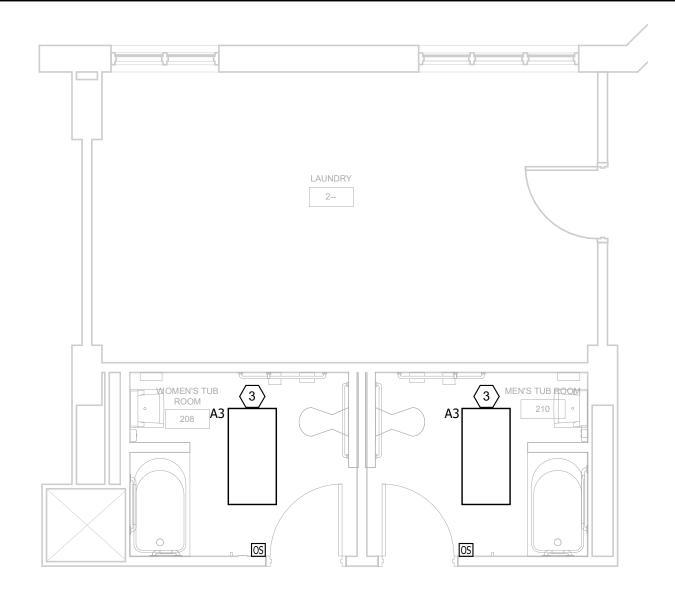
ELECTRICAL SYMBOLS AND ABBREVIATIONS



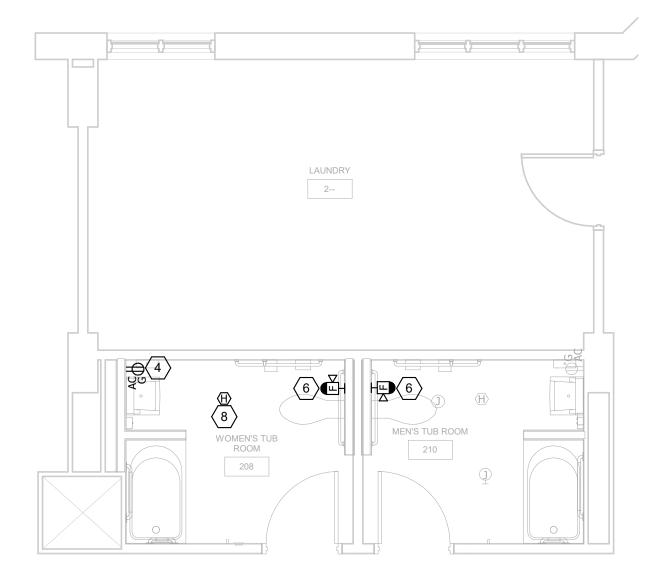


## NEW CONSTRUCTION - FIRST FLOOR UNIT LIGHTING PLAN (6 THUS)





## NEW CONSTRUCTION - SECOND FLOOR BATHING ROOMS LIGHTING PLAN



# NEW CONSTRUCTION - SECOND FLOOR BATHING ROOMS POWER AND SYSTEMS PLAN

PANELBOARD SCHEDULE		NAME:	UNIT PANEL			MAIN CIF	RCUIT BREA	KER: 60A		KAIC RATING: MATCH EXISTING			
		LOCATION:	APARTMENT UN	T		MAIN LUGS ONLY:				VOLTAGE: 240/120			
		MOUNTING:	RECESSED			WIRES: 3				PHASE: 1			
CKT	CIRCUIT	DESCRIPTION	TRIP	POLES		А	В		POLES	TRIP	CIRCUIT DESCRIPTION C		
1	EXISTING APARTMENT LOAD		15 A	1	0	0			1	15 A	EXISTING APARTMENT LOAD	2	
3	EXISTING APARTMENT LO	AD	15 A	1			0	0	1	20 A	EXISTING APARTMENT LOAD		
5	EXISTING APARTMENT LOAD		20 A	1	0	0				FO 4	EVICTING ADAPTATAIL LOAD (DANCE)	6	
7	SPACE			1				0	2	50 A	EXISTING APARTMTNE LOAD (RANGE)		
9	9 SPACE			1					1		SPACE		
11	11 SPACE 1						1	1 SPACE		12			
TOTAL CONNECTED LOAD 0 VA TOTAL CALCULATED DEMAND XXXXX TOTAL										TOTAL CALCULATED AMPS	XXXXX		

GENERAL NOTES:		
1. VERIFY A	LL EXISTING LOADS ON SITE AND LABEL ALL NEW BREAKERS WITH LOAD SERVED.	

- 2. EXISTING PANELBOARD HAS NO LABELING PROVIDED, VERIFY ALL DETAILS OF EXISTING PANELBOARD ON
- 3. EXISTING 60A/2P BREAKER IS ASSUMED TO BE A MAIN BREAKER DEVICE, VERIFY PRIOR TO ORDERING NEW PANELBOARDS.
- 4. PROVIDE AFCI AND GFCI CIRCUIT BREAKERS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
- KEY NOTES: \* GFCI RATED BREAKER
- \*\* HACR RATED BREAKER
- \*\*\* ISOLATED GROUND CIRCUIT
- L. = LIGHTING R. = RECEPTACLE

	LUMINAIRE SCHEDULE											
ID TAG	ТҮРЕ	MOUNTING	LIGHT SOURCE	VOLTAGE/BALLAST	INPUT WATTS	DESCRIPTION	COLOR	APPROVED MANUFACTURER				
A1	2x2 FLAT PANEL LED	RECESSED	LED, 4500-5200 LUMEN, 3500K, 80CRI MIN	120V, ELECTRONIC DIMMING DRIVER	50 VA	UV RESISTANT ACRYLIC LENS, HOUSING DEPTH LESS THAN 1", OVERALL DEPTH WITH DRIVER LESS THAN 2", IC RATED	WHITE	ELITE LIGHTING 22-FPL1-LED SERIES, RAB EZPAN SERIES, LSI INDUSTRIES SFP22 SERIES, COLUMBIA LIGHTING CFP SERIES				
A2	2x4 FLAT PANEL LED	RECESSED	LED, 4800-5300 LUMEN, 3500K, 80CRI MIN	120V, ELECTRONIC DRIVER	53 VA	UV RESISTANT ACRYLIC LENS, HOUSING DEPTH LESS THAN 1", OVERALL DEPTH WITH DRIVER LESS THAN 2", IC RATED	WHITE	ELITE LIGHTING 24-FLP1-LED SERIES, RAB EZPAN SERIES, LSI INDUSTRIES SFP24 SERIES, COLUMBIA LIGHTING CFP SERIES				
A3	2x4 FLAT PANEL LED	SURFACE	LED, 4800-5300 LUMEN, 3500K, 80CRI MIN	120V, ELECTRONIC DRIVER	53 VA	UV RESISTANT ACRYLIC LENS, HOUSING DEPTH LESS THAN 1", OVERALL DEPTH WITH DRIVER LESS THAN 2", SHALLOW SURFACE MOUNT KIT	WHITE	ELITE LIGHTING 24-FLP1-LED-SMK SERIES, RAB EZPAN SERIES, LSI INDUSTRIES SFP24 SERIES, COLUMBIA LIGHTING CFP SERIES				
B1	2'-0" UNDERCABINET LED	SURFACE	LED, 900 LUMEN, 3500K	120V, ELECTRONIC DRIVER	10 VA	LOW PROFILE, ALUMINUM HOUSING, REMOTE ADA ACCESSIBLE SWITCH	WHITE	ORACLE LIGHTING EU-LED SERIES, RAB UC120-LED SERIES, COLUMBIA LIGHTING CUC SERIES				
C1	LED VANITY LIGHT	SURFACE/WALL	LED; 1100 DELIVERED LUMENS, 3500K	120V/ELECTRONIC	25 VA	LINEAR TUBE SHADE, 24-25" IN LENGTH, WHITE ACRYLIC LENS, WALL BACK PLATE	SATIN NICKEL	TECH LIGHTING LYNN 25 BATH SERIES, WAC LIGHTING dweLED BRINK WS SERIES, KUZCO VL622-CH SERIES				
D1	6" LED DISK	SURFACE OVER J-BOX	LED, 850 DELIEVERED LUMENS, 3500K	120V/ELECTRONIC DRIVER	16 VA	STAMPED ALUMINUM 6" LED DISK LIGHT, REMOVABLE LENS, MOUNTS TO 4" STANDARD JUNCTION BOX, WET LOCATION LISTED	WHITE	ELITE LIGHTING RL677 SERIES, RAB DSK6 SERIES, PRESCOLITE LBSLEDA SERIES				

- GENERAL NOTES:

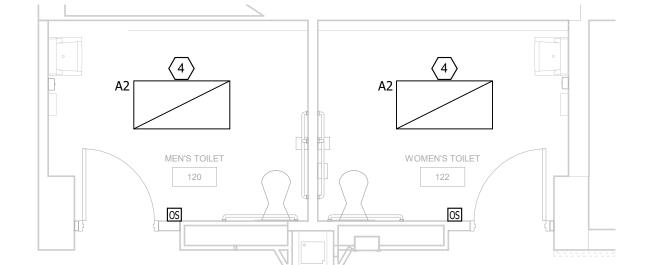
  1. ALL ELECTRICAL EQUIPMENT SHOWN IN DARK (BLACK) LINES SHALL BE NEW EQUIPMENT, ALL EQUIPMENT SHOWN IN LIGHT (GRAY) LINES IS EXISTING EQUIPMENT TO REMAIN AS IS. UNLESS NOTED OTHERWISE.
- 2. THE CONTRACTOR SHALL INCLUDE TEMPORARY CABLING TO KEEP THE APARTMENT UNIT POWERED DURING THE CONSTRUCTION PERIOD.
- 3. COORDINATE MOUNTING HEIGHTS OF WALL MOUNTED ELECTRICAL DEVICES WITH

ARCHITECTURAL DOCUMENTS PRIOR TO INSTALLATION.

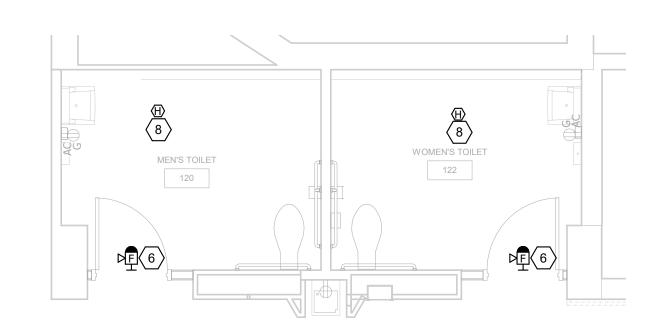
4. ALL NEW ELECTRICAL DEVICES PROVIDED IN THE APARTMENT UNITS SHALL BE LOCATED PER ADA REQUIREMENTS AND LOCAL AUTHORITY HAVING JURISDICTION.

- X KEYED NOTES:

  1. REPLACE EXISTING UNIT LOAD CENTER WITH NEW LOAD CENTER IN SAME LOCATION. PROVIDE RETROFIT KIT FOR EXISTING PANELBOARD OR PROVIDE NEW IF NO RETROFIT KIT IS AVAILABLE. EXISTING PANELBOARD IS A FEDERAL PACIFIC CATALOG NUMBER RB 108-16. VERIFY EXACT REQUIREMENTS ON SITE PRIOR TO ORDERING OR SUBMITTING SHOP DRAWINGS.
- 2. CONNECT NEW LIGHT FIXTURE TO EXISTING POWER CIRCUIT AND CONTROLS SALVAGED DURING
- 3. CONNECT NEW LIGHTING IN THIS SPACE TO EXISTING POWER CIRCUIT SALVAGED DURING DEMOLITION, PROVIDE NEW DIMMING SWITCH FOR CONTROL OF LIGHTING IN THE BEDROOM.
- 4. CONNECT TO EXISTING POWER CIRCUIT SALVAGED DURING DEMOLITION. 5. RELOCATED SWITCH FOR CONTROL OF LIVING AREA SWITCHED RECEPTACLES, EXTEND EXISTING ELECTRICAL AS REQUIRED.
- 6. RELOCATED FIRE ALARM DEVICE, EXTEND EXISTING ELECTRICAL TO NEW LOCATION MAINTAIN
- ALL CONNECTIONS TO FIRE ALARM SYSTEM DURING DEMOLITION/RECONSTRUCTION. 7. LOWER EXISTING KITCHEN RECEPTACLE PER ADA REQUIREMENTS AND AS REQUIRED BY THE
- AUTHORITY HAVING JURISDICTION. MODIFY EXISTING ELECTRICAL CIRCUIT AS REQUIRED. 8. EXISTING FIRE ALARM DEVICE TO BE TAKEN DOWN AND PUT BACK UP AS REQUIRED FOR
- MECHANICAL/CEILING INSTALLATIONS. SUPPORT/PROTECT DEVICE DURING CONSTRUCTION.



## NEW CONSTRUCTION - FIRST FLOOR TOILET ROOMS LIGHTING PLAN



NEW CONSTRUCTION - FIRST FLOOR TOILET ROOMS POWER AND SYSTEMS PLAN

## PANELBOARD LABEL

PROVIDE THE FOLLOWING INFORMATION:

PANEL NAME PRIMARY DISCONNECT LOCATION SIZE/FUSE

FEEDER SIZE(CONDUIT AND CONDUCTORS) IF SERVICE RATED LABEL "SERVICE EQUIPMENT RATED"

DATE OF INSTALL

**EXAMPLE:** 

FED FROM: SWBD-1 200A/3P FEEDER: 2"C-4#3/0,1#6G

MARCH 2017

- 1. PROVIDE SIGN(S) ON EXTERIOR OF ALL ENCLOSURES CONTAINING CONDUCTORS OPERATING AT POTENTIALS UNDER 600 VOLTS.
- 2. THE ABOVE LABELING IS MINIMUM REQUIRED. ADD ALL ADDITIONAL LABELING REQUIRED BY THE NEC AND AHJ. 3. LABEL SHALL BE ATTACHED TO THE FRONT OF EQUIPMENT IN SUCH A MANNER IT IS IN PLAIN SIGHT.
- 4. LABEL SHALL BE ENGRAVED PHENOLIC AND FASTENED TO THE EQUIPMENT WITH SCREWS OR RIVETS, NOT TO VOID UL LISTINGS.

**NO SCALE** 

PANELBOARD LABEL

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Revision Schedule

Number

Revision Description

Date

HRA ACCESSIBILITY

WILSON APARTMENTS

**IMPROVEMENTS** 

ST. CLOUD, MN

DATE 09/28/21 PROJECT 05021001 E3.01

**ELECTRICAL RENOVATION PLANS**