

RESTROOM RENOVATION- ROSETREE COUNTY PARK

1671 N PROVIDENCE RD, MEDIA, PA 19063

ROSETREE PARK

MEDIA PENNSYLVANIA



OWNER
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SEAL:



ABBREVIATIONS

AB Anchor Bolt	EA Each	JAN Janitor	RJ Reveal joint
AC Air Conditioning	E JTC-1 Exp. Jt. Cover & Type	JT Joint	RM Room
ACOUS Acoustics	EL Elevation	JUNC Juncture	RO Rough opening
ACP Acous Ceiling Panels	ELEV Elevator	LVT Luxury Vinyl Tile	RRP Radius reference point
ACT-1 Acous ceiling tile & type	EMER Emergency	LAV Lavatory	RWC Rainwater conductor
AD Access door	ENTR Entrance	LP Low Point	
ADH Adhesive	EP Extruded Polystyrene	LTG Lighting	
ADJ Adjustable	EPS Expanded Polystyrene		
AFF Above finished floor	EQ Equal	MSNRY Masonry	SAB Sound attenuation blanket
ALT Alternate	ER Existing to remain	MATL Material	SVF Seamless vinyl flooring
ALUM Aluminium	ESB Exterior soffit board	MAX Maximum	SCW Solid core wood
ANDZ Anodize	EWG Electric water cooler	MB Mail box	SCHED Schedule
APPROX Approximate	EXH Exhaust	MC Mineral core	SHLVS Shelves
A.P. Access panel	EXP Exposed	MEMB Membrane	SHT Sheet
ARCH Architect	E JT Expansion joint	MFR Manufacturer	SHTHG Sheathing
ASBLY Assembly	EXT Existing	MIN Minimum	SIM Similar
ASL Above slab		MIR Mirror	SLNT Sealant
		MISC Miscellaneous	SPEC Specification
BAL Balance	FB Face Brick	MLWK Millwork	SF Square foot
B&B Balled & bagged	FEC Fire extinguisher cabinet	MM Millimeter	SFT Structural facing tile
BD Board	FHC Fire hose & valve cabinet	MO Masonry Opening	STD Standard
BEV Beveled	FD Floor drain	MR Membrane Roofing	STL Steel
BI Birch	FL Floor	MTD Mounted	STOR Storage
BITUM Bituminous	FLUOR Fluorescent	MTL Metal	STRUC. Structure
BKSPL Backsplash	FDN Foundation	MULL Mullion	ST STL Stainless steel
BL Borrowed light	FFRFG Fireproofing		SURF Surface
BLK Block	FSR Flexible sheet roof		SUSP Suspended
BLKG Blocking	FT Feet	NAT Natural (finish)	SYST System
BM Beam	FTG Footing	N North	
BOT Bottom	FUR Furring	NIC Not in contract	
BRCG Bracing		NO Number	TB Tackboard
BRG Bearing	GA Gauge	NOM Nominal	TD Towel Dispenser
BRK Brick	GALV Galvanized	NTS Not to scale	TDR Towel Dispenser Receptor
BS Both sides	GB Grab bar	O Oak	THOLD Threshold
	GC General contractor	OA Overall	TEMP Tempered
CAB Cabinet	GFB Glazed Face Brick	OC On Center	TME To Match Existing
CASBD Casing bed	GRB Glass fiber board	OD Outside Diameter	T.O. Top of
CB Chalkboard	GL Glass	O.H. Opposite Hand	TPH Toilet paper holder
CH Ceramic	GL CMU Glazed CMU	OHD Overhead	TR Through roof
CH Ceiling height	GR Grade	OPG Opening	TRZ Terrazzo
CJT Control joint	GRN Granite	OPP Opposite	TSL Top of slab
CLG Ceiling	GWB Gypsum wallboard		TSTL Top of steel
CLR Clear or clearance	GYP Gypsum	PC Piece	T.O.W. Top of wall
CMU Concrete masonry unit		PLAM Plastic Laminote	TYP Typical
COL Column	HB Hose Bib	PLAS Plaster	UL UNDERWRITER LABORATORY
COMB Combination	HC Hollow core	PNT Point	U.O.N. UNLESS OTHERWISE NOTED
CONC Concrete	HDWE Hardware	POLYC Polycarbonate	
CONSTR Construction	HM Hollow metal	PR Pair	VAR Varies
CONT Continuous	HCAP Handicapped	PRTN Partition	VB Vinyl Base
CPT Carpet	HNDRL Handrail	PNT Point	VCT Vinyl composite tile
CPS Course	HORIZ Horizontal	PTCL BD Partial Board	VERT Vertical
CS Cast stone	HP High Point	PTD Painted	VA Veterans Administration
CSP Concealed	HT Height	PLWD Plywood	VST Vinyl Stair Tread
CT Ceramic tile	HVAC Heating, ventilation, & air conditioning	R&S Rod & Sheif	WVC Vinyl wall covering
CTR Center	HYD Hydrant	RAD Radius	W With
CW Curtain wall		RD Roof drain	W/O Without
CUT Conductive vinyl tile		RCF Raised computer floor	WD Wood
		REC Recessed	WO Window opening
DBLE Double	ID Inside diameter	REC EP Receptacle	WPRFG Waterproofing
DBL ACT Double Acting	IFS Insulation & finish	REF Reference	
DIA Diameter	INS Insulation	REFL Reflective	
DIM Dimension	INVT Invert	REINF Reinforcing	
DN Down	INT Interior	REQD Required	
DPFRG Dampproofing		REV Revision	
DS Downspout		RFG Roofing	
DWGS Drawings			

DRAWING INDEX

DWG NO.	DWG DATE	REV. #	REV. DATE	DRAWING TITLE
A2	07-07-2024			PROPOSED EXT. & INT. ELEVs
ARCHITECTURAL				
CS	07-07-2024			COVER SHEET
A1	07-07-2024			SITE PLAN & FLOOR PLANS
A3	07-07-2024			HC TOILETS- PLANS, ELEVs & SCHEDULES
A4	07-07-2024			INTERIOR ELEVATIONS
A5	07-07-2024			DETAILS
A6	07-07-2024			DETAILS
PLUMBING				
P000	07-03-2024			PLUMBING SYMBOLS & ABBREVIATIONS
P100	07-03-2024			MALE & FEMALE RESTROOM SANITARY DEMOLITION & NEW SANITARY & DOMESTIC WATER PLANS
P200	07-03-2024			DEMO. & PROPOSED SANITARY & DOMESTIC WATER RISER DIAGRAMS
P300	07-03-2024			PLUMBING FIXTURE CUT SHEETS
ELECTRICAL				
E000	07-03-2024			ELECTRICAL SYMBOLS & ABBREVIATIONS
E100	07-03-2024			ELECTRICAL POWER & LIGHTING PLANS
E200	07-03-2024			ELECTRICAL SINGLE LINE, NOTES, PANEL SCHEDULES

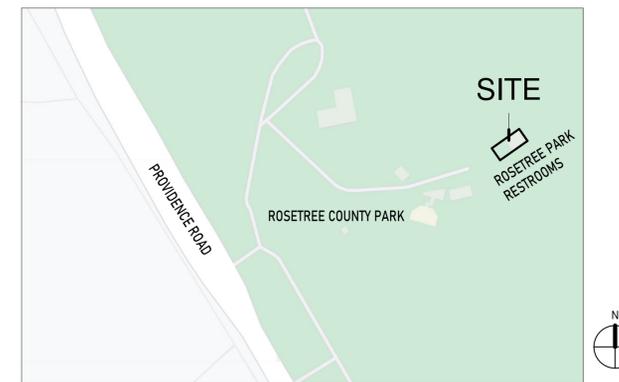
BUILDING CODE/DATA

BUILDING CODE	2018 IBC / 2018 IEBC
CONSTRUCTION TYPE	5B
APPLICABLE CODES:	
	INTERNATIONAL PLUMBING CODE 2018 (IPC)
	INTERNATIONAL MECHANICAL CODE 2018 (IMC)
	INTERNATIONAL ENERGY CONSERVATION CODE 2018 (IECC)

SYMBOLS LEGEND

	ROUGH WOOD		WINDOW TYPE NOTE		DETAIL TARGET
	WOOD SHIM		DOOR TYPE NOTE		FLOOR ELEVATION
	FINISH WOOD		PARTITION TYPE		GLASS TYPE
	PLYWOOD		INTERIOR ELEVATION		DETAIL REFERENCE
	RIGID INSULATION, EIFS		EXTERIOR ELEVATION		FINISH LABEL
	BATT INSULATION		NORTH ARROW		CEILING TYPE LABEL
	EARTH				
	GRAVEL				
	STRUCTURAL CONCRETE				
	BRICK				
	CONCRETE MASONRY UNIT				
	STEEL				

LOCATION MAP



GENERAL NOTES

- All dimensions are finish dimensions.
- Definitions:
 - Remove: Detach items from existing construction and legally dispose of them off-site, unless noted to be removed and salvaged or removed and reinstalled.
 - Remove and Salvage: Detach items from existing construction and deliver, ready for reuse, as directed by County of Delaware(COD).
 - Remove and Reinstall: Detach item from existing construction, prepare them for reuse, and reinstall them where indicated.
 - Existing to Remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.
- All work shall be done in accordance with 2018 IBC / IRC applicable and all local/state ordinances.
- All electrical work is to be installed per the latest edition of the national Electrical Code and applicable COD Codes. The completed work is to be certified by an underwriting agency approved by COD.
- The contractor shall secure and pay for the building permit. The contractor, and/or his subcontractors, shall secure and pay for all other permits and governmental fees, licenses, and inspections necessary for proper execution and completion of the work.
- The contractor and his subcontractors to comply with all laws, ordinances, rules, regulations, and orders of any public authority having jurisdiction on the performance of the work.
- The contractor shall comply with and give notices required by laws, ordinances, rules, regulations and lawful orders of public authorities bearing on performance of the work.
- The contractor to carefully study and compare the Contract Documents with each other and with information furnished by COD and shall report any errors, inconsistencies, or omissions discovered to the Architect and to COD.
- Contractor is responsible for providing all temporary services and facilities during construction including but not limited to water, electricity, dumpster, job trailer.
- The contractor shall be responsible for compliance with all OSHA regulations.
- The contractor to take field measurements and verify field conditions before proceeding with any work and shall be responsible for same.
- The contractor is responsible for cutting, fitting or patching required to complete the work or to make its parts fit together properly.
- The contractor to keep the premises and surrounding area free from accumulation of waste materials or rubbish caused by construction operations.
- The contractor to provide secure temporary supports as required and maintain same until permanent supports are fully in place.
- Concrete at basement slabs, foundations not exposed to weather conditions shall be 3,000 PSI. Concrete at basement slabs, foundation and exterior walls shall be 3,000 PSI. Concrete at porches, exterior steps and garage slabs shall be 3,500 PSI. All concrete subject to exterior exposure shall be air entrained at 6% +/-1%.
- Any excavation shall extend a minimum of 12" into undisturbed solid soil and foundations shall extend a minimum of 36" below finished grade.
- Backfilling and rough grading is prohibited until walls have obtained sufficient strength to prevent damage by the backfilling operations per IRC 401.1.
- All guardrails to be 36" A.F.F. and balusters spaced so that 4" diam sphere cannot pass through any point.
- All pipes passing through the foundation are to pass through a sleeve size larger than the pipe it serves. Pack the annular space and seal with a waterproof sealant.
- Provide only 1.6 gallon per flush toilets and 3 GPM fixtures max.
- No lead solder.
- Plumbing, mechanical and all other prefabricated equipment to have approval labels and instructions attached at time of inspection.
- Use moister resistant GWB in all wet areas.

Mark	Revisions	Date

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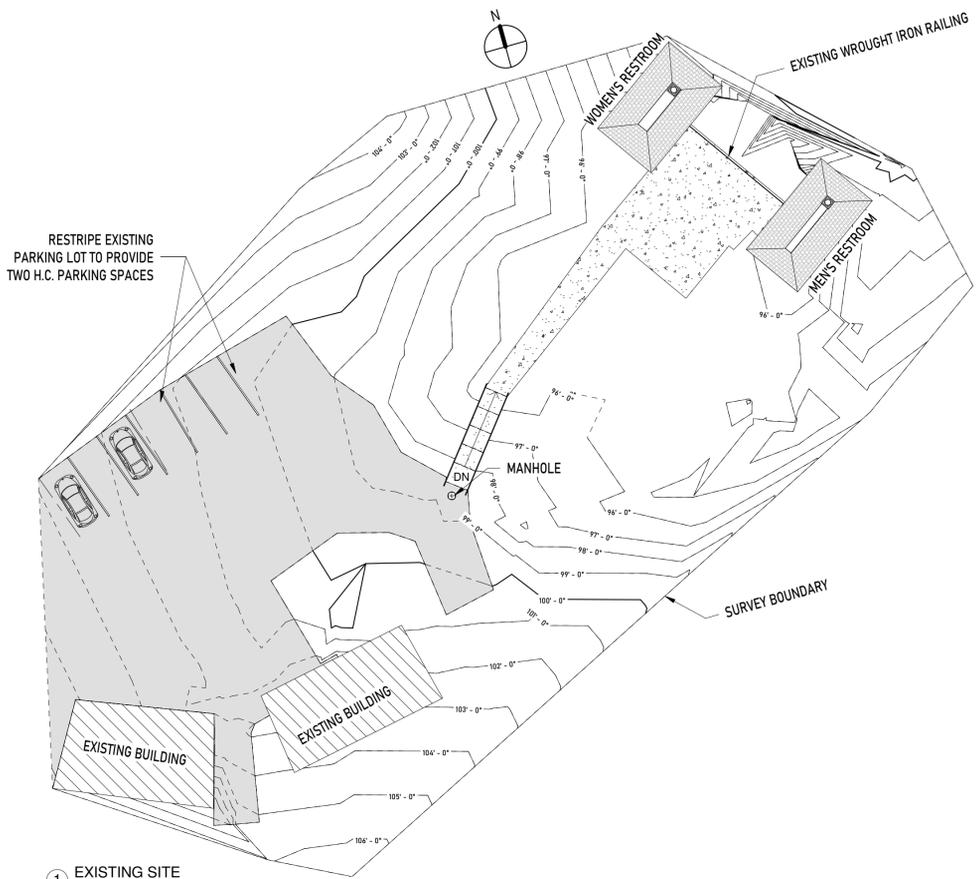
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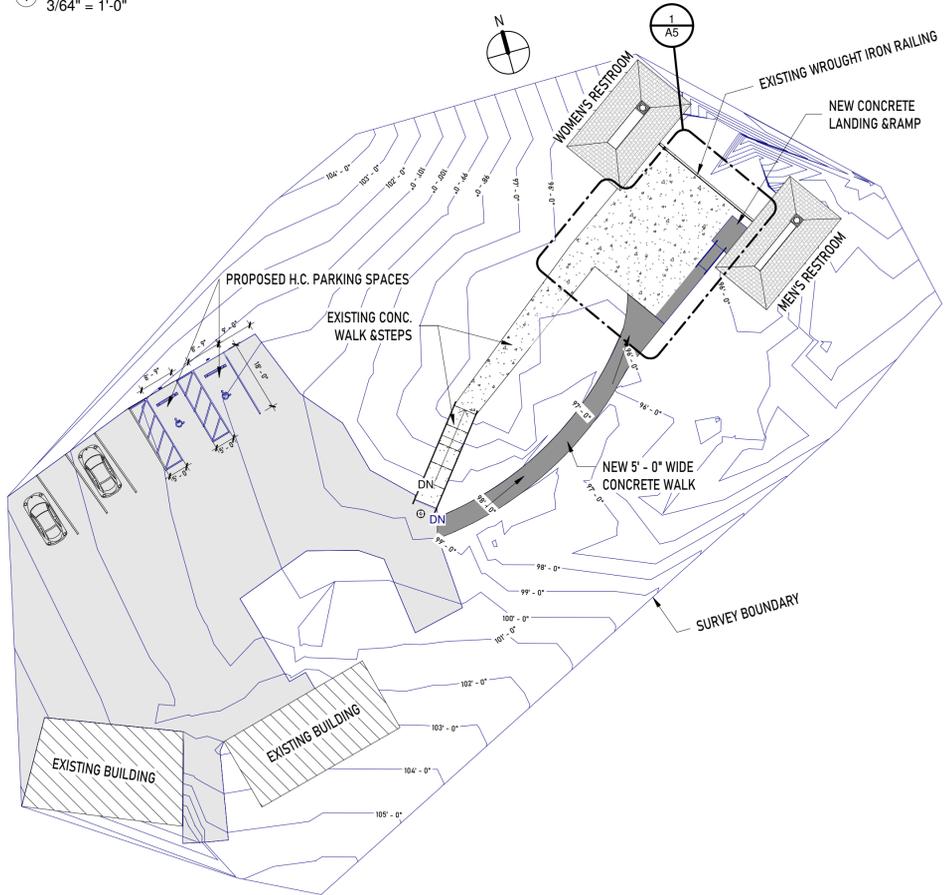
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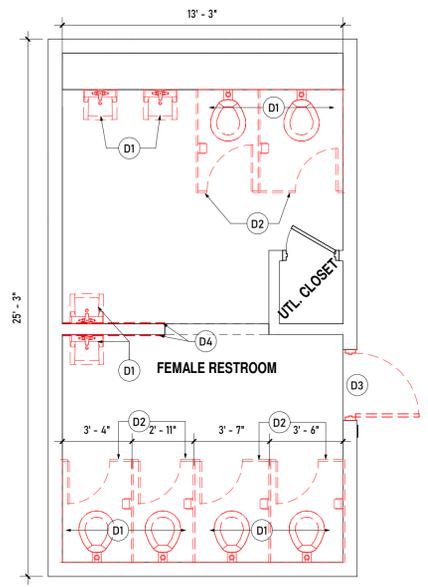
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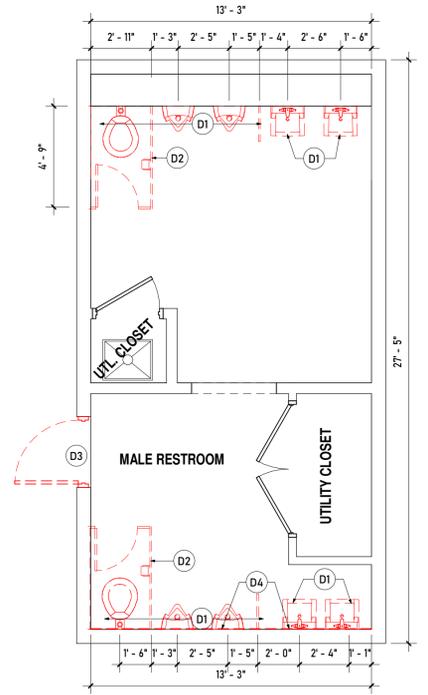
1 EXISTING SITE
3/64" = 1'-0"



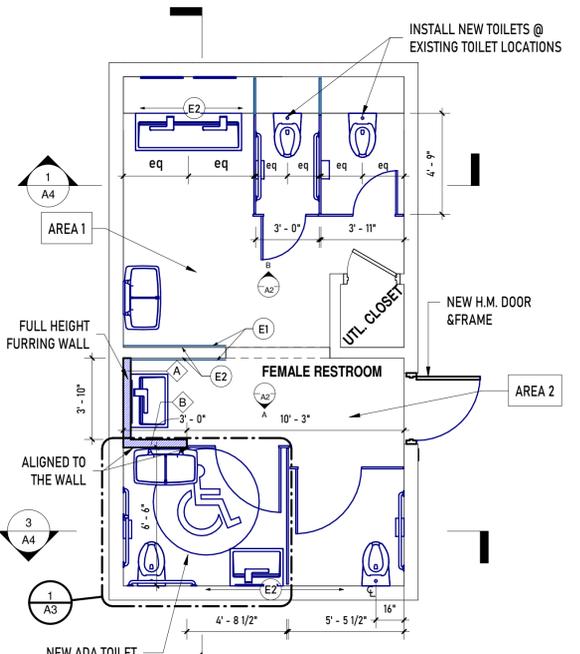
2 PROPOSED SITE
3/64" = 1'-0"



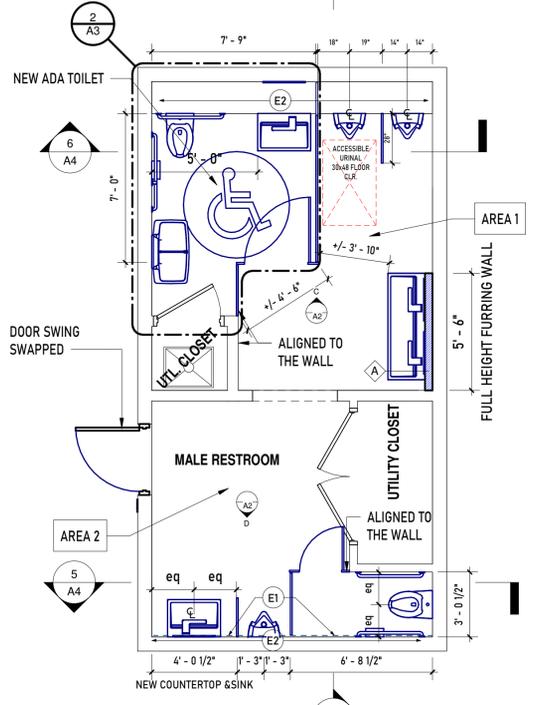
3 FEMALE RESTROOM- DEMOLITION PLAN
1/4" = 1'-0"



4 MALE RESTROOM- DEMOLITION PLAN
1/4" = 1'-0"



5 FEMALE RESTROOM- PROPOSED PLAN
1/4" = 1'-0"



6 MALE RESTROOM- PROPOSED PLAN
1/4" = 1'-0"

LEGEND

	EXISTING
	TO BE REMOVED
	NEW CHANGES

DEMOLITION NOTES

NOTE	DESCRIPTION
D1	REMOVE PLUMBING FIXTURES IN THEIR ENTIRETY.
D2	REMOVE TOILET STALLS AND ACCESSORIES IN THEIR ENTIRETY.
D3	REMOVE EXISTING DOOR, FRAME AND HARDWARE.
D4	REMOVE THE EXISTING BEADBOARD PANELLING AS INDICATED.

CONSTRUCTION NOTES

NOTE	DESCRIPTION
E1	NEW BEADBOARD PANELLING TO MATCH THE EXISTING
E2	PATCH THE EXISTING WALL WHERE PLUMBING FIXTURES HAVE BEEN REMOVED.

WALL TYPE LEGEND

WALL SECTION	WALL TYPE
	A
	B

FINISH SCHEDULE

NAME	FLOOR	BASE		NORTH WALL		WEST WALL		SOUTH WALL		EAST WALL		CEILING	
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH
MALE RESTROOM	AREA 1	VINYL COVE	P-1	EXISTING WOOD PANEL	P-1	EXISTING WOOD PANEL & BLOCK	P-1	EXISTING WOOD PANEL	P-1	NEW WOOD PANEL	P-1	WOOD PANEL	P-1
	AREA 2	EPOXY											
FEMALE RESTROOM	AREA 1	VINYL COVE	P-1	EXISTING WOOD PANEL	P-1	EXISTING WOOD PANEL & BLOCK	P-1	EXISTING WOOD PANEL	P-1	NEW WOOD PANEL	P-1	WOOD PANEL	P-1
	AREA 2	EPOXY											

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ARCHITECTURE PLANNING DEVELOPMENT

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BID SET

SITE PLAN & FLOOR PLANS

DRAWING TITLE

A1

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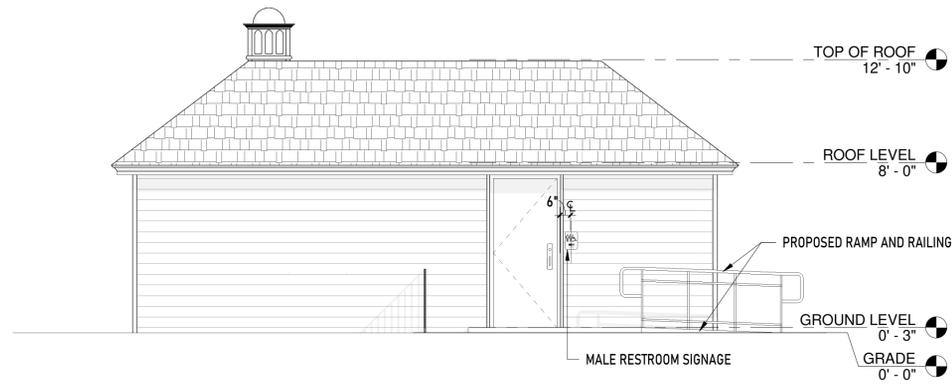
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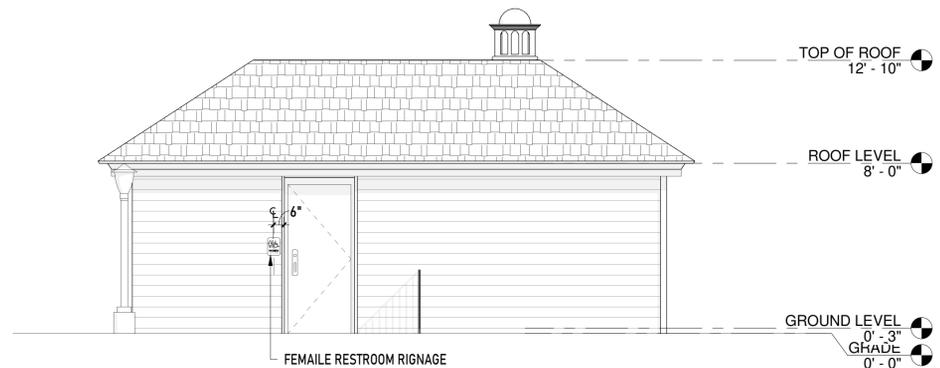
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EXT. & INT.
ELEVATIONS

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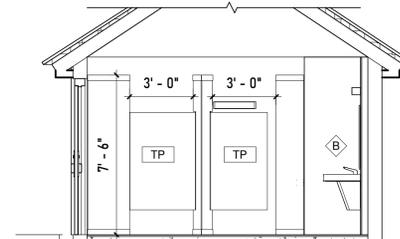
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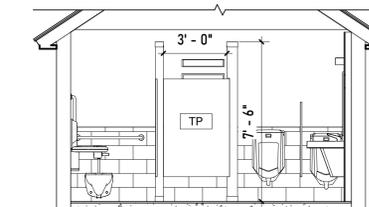
1 PROPOSED- MEN'S RESTROOM ELEVATION
1/4" = 1'-0"



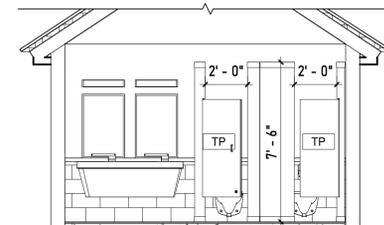
2 WOMEN'S RESTROOM ELEVATION
1/4" = 1'-0"



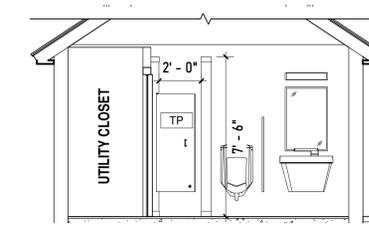
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1/4" = 1'-0"



C MALE RESTROOM ELEVATION- 1
1/4" = 1'-0"

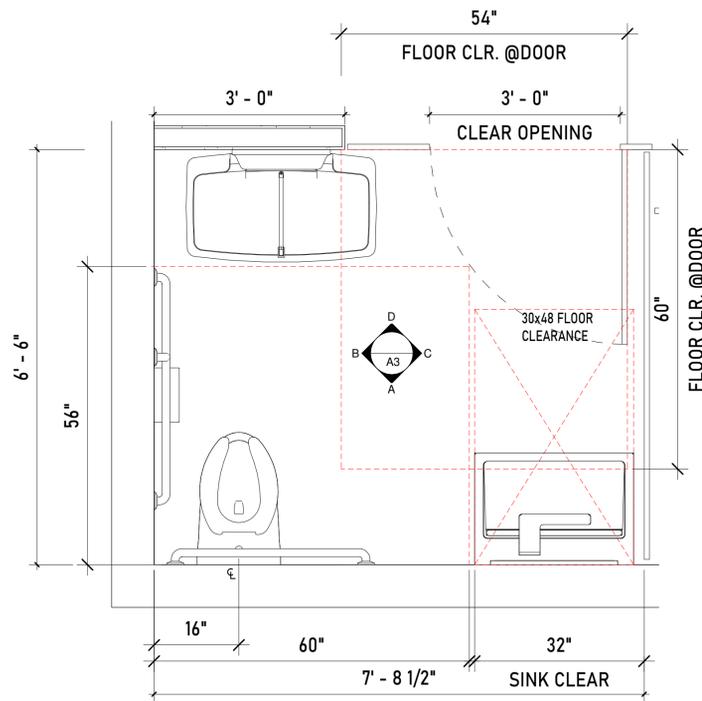


B FEMALE RESTROOM ELEVATION- 2
1/4" = 1'-0"

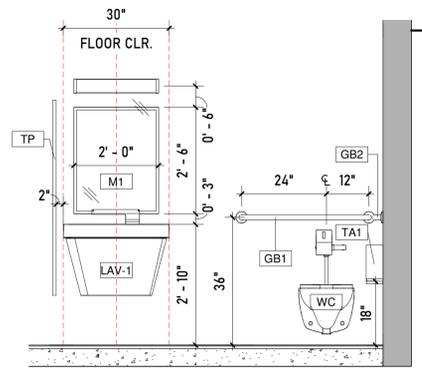


D MALE RESTROOM ELEVATION- 2
1/4" = 1'-0"

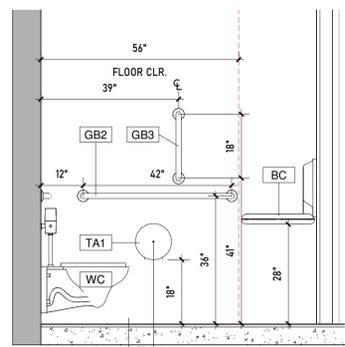
FEMALE- ADA RESTROOM



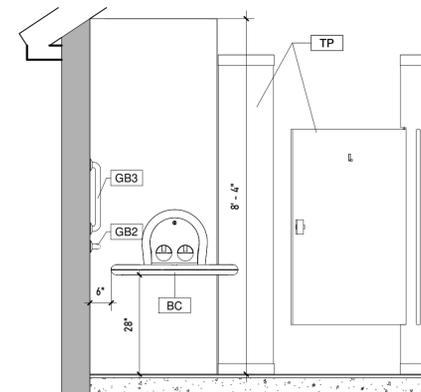
1 HANDICAP TOILET- FEMALE
3/4" = 1'-0"



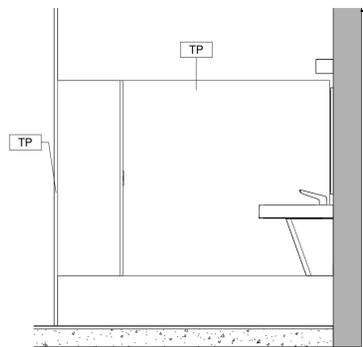
A WOMEN'S TOILET- ELEV A
1/2" = 1'-0"



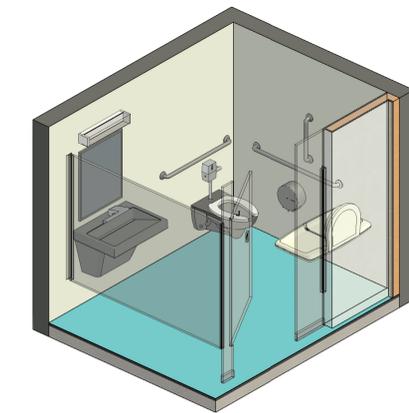
B WOMEN'S TOILET- ELEV B
1/2" = 1'-0"



D WOMEN'S TOILET- ELEV D
1/2" = 1'-0"

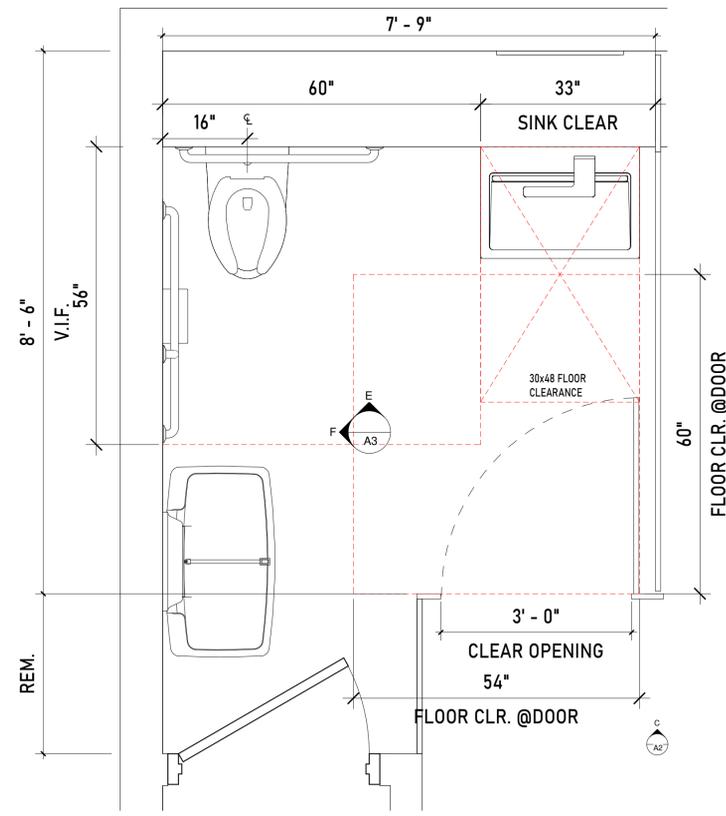


C WOMEN'S TOILET- ELEV C
1/2" = 1'-0"

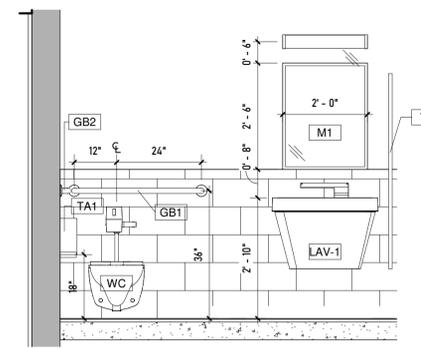


i FEMALE ADA

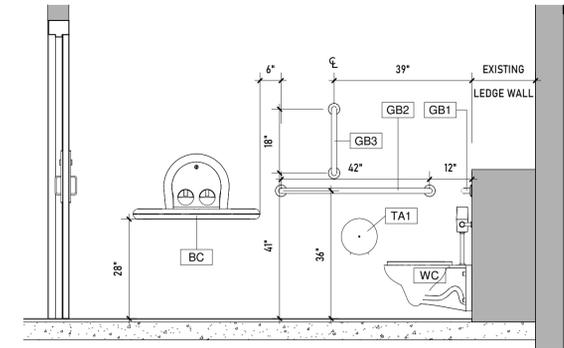
MALE- ADA RESTROOM



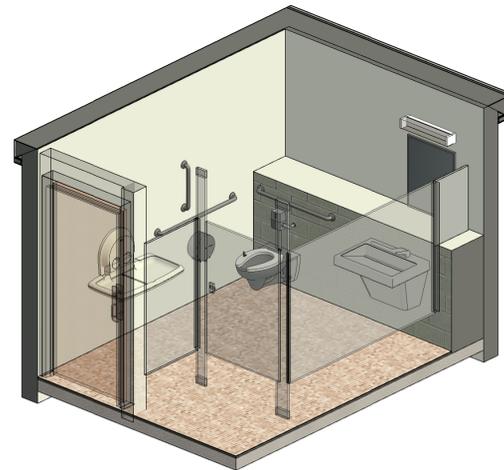
2 HANDICAP TOILET- MALE
3/4" = 1'-0"



E MEN'S TOILET- ELEV E
1/2" = 1'-0"



F MEN'S TOILET- ELEV F
1/2" = 1'-0"



ii MALE ADA

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BID SET

HC TOILETS-
 PLANS, ELEV's
 & SCHEDULES

DRAWING TITLE

A3

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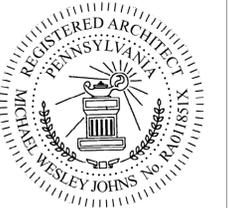
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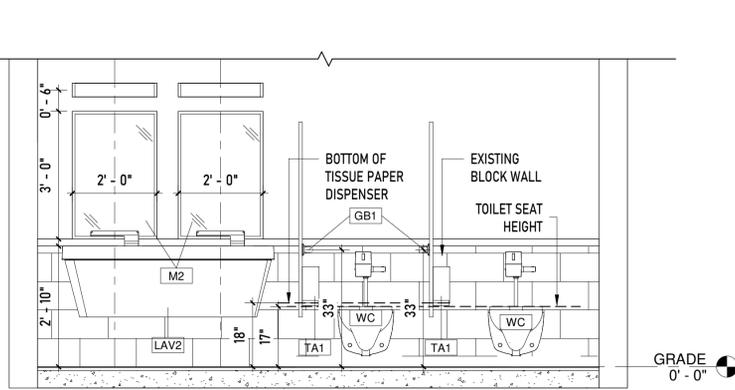
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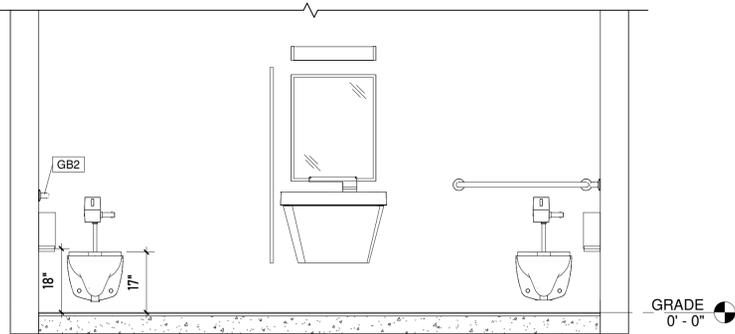
INTERIOR ELEVATIONS

DRAWING TITLE

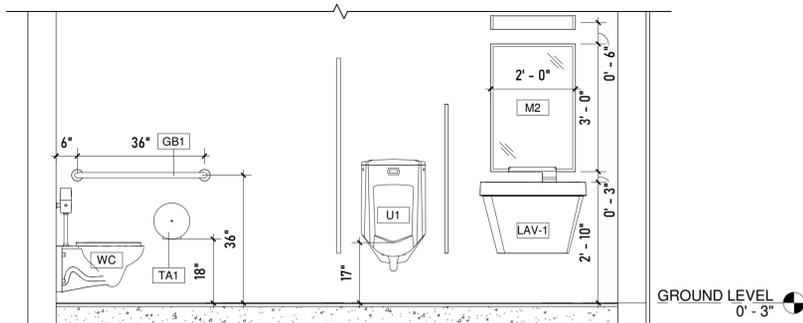
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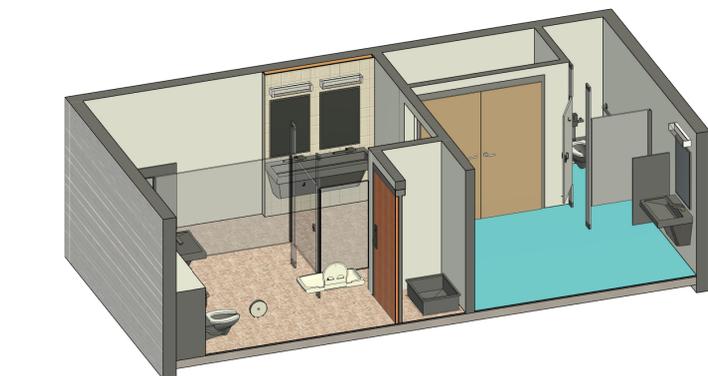
1 FEMALE RESTROOM- INTERIOR ELEVATION 1
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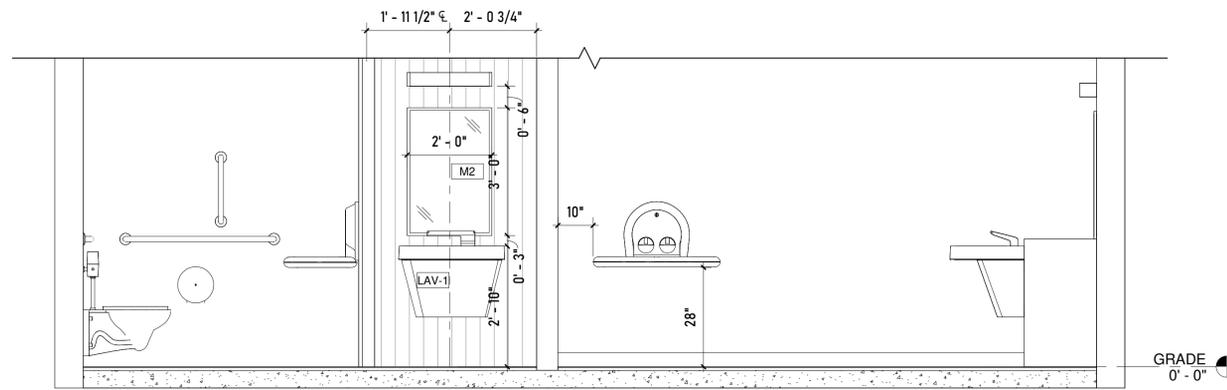
3 FEMALE RESTROOM- INTERIOR ELEVATION 3
1/2" = 1'-0"



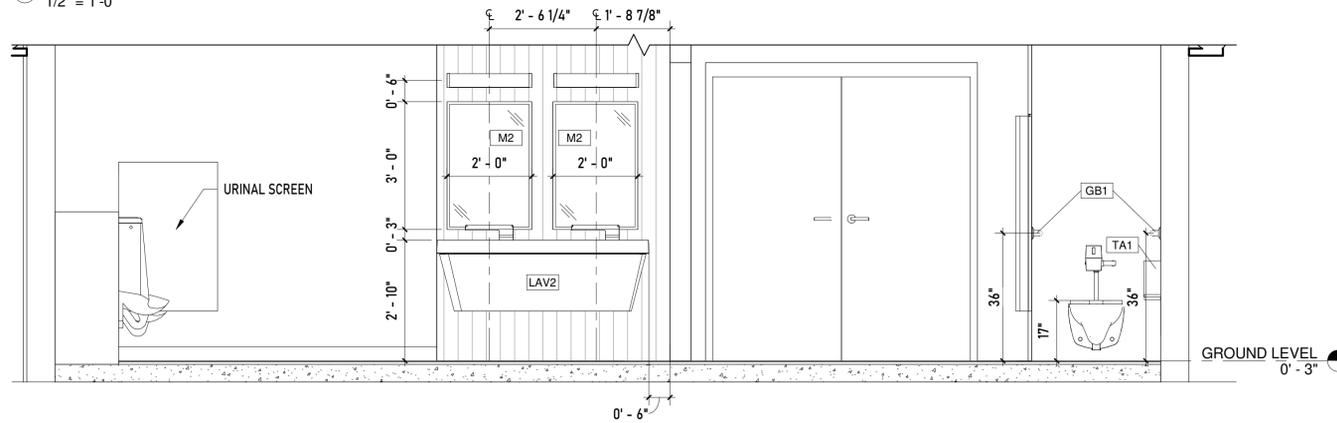
5 MALE RESTROOM- INTERIOR ELEVATION 2
1/2" = 1'-0"



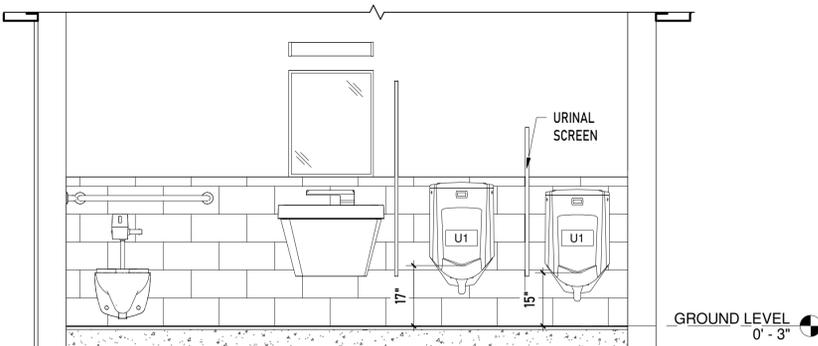
7 ISOMETRIC VIEW- MALE RESTROOM



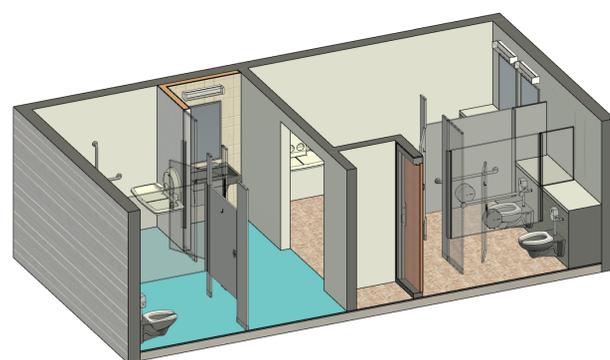
2 FEMALE RESTROOM- INTERIOR ELEVATION 2
1/2" = 1'-0"



4 MALE RESTROOM- INTERIOR ELEVATION 1
1/2" = 1'-0"



6 MALE RESTROOM- INTERIOR ELEVATION 3
1/2" = 1'-0"



8 ISOMETRIC VIEW- FEMALE RESTROOM

ACCESSORIES & FIXTURE SCHEDULE

ITEM NO.	IMAGE	DESCRIPTION	MANUFACTURER	MODEL NO.	TAG	QUANTITY
01		1/2" Diameter Stainless Steel Grab Bars with Concealed Flange. ADA compliant.	BOBRICK	9806x36 9806x42 9806x18	GB1 GB2 GB3	6 NOs 2 NOs 2 NOs
02		Single Jumbo Roll Toilet Paper Dispenser	BRADLEY	5424	TA1	6 NOs
03		KB300-SS Baby Changing Station	BOBRICK	KB300-SS	BC	3 NOs
04		Verge with WashBar WB2 2-Station	BRADLEY	LVQD2	LAV-2	2 NOs
05		Verge with WashBar WB2 1-Station	BRADLEY	LVQD1	LAV-1	4 NOs
06		Welded-Frame Mirror	BOBRICK	B-290 2430 B-290 2436	M1 M2	2 NOs 6 NOs
07		Washbrook FloWise Universal Urinal	AMERICAN STANDARD	6515.001	U1	3 NOs
08		Afwall Millenium FloWise Elongated Flushometer Toilet	AMERICAN STANDARD	2633.101	WC	6 NOs
09		Floor-to-Ceiling Restroom Partitions	BRADLEY	700	TP	-



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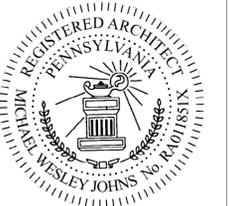
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SEAL:



Mark	Revisions	Date

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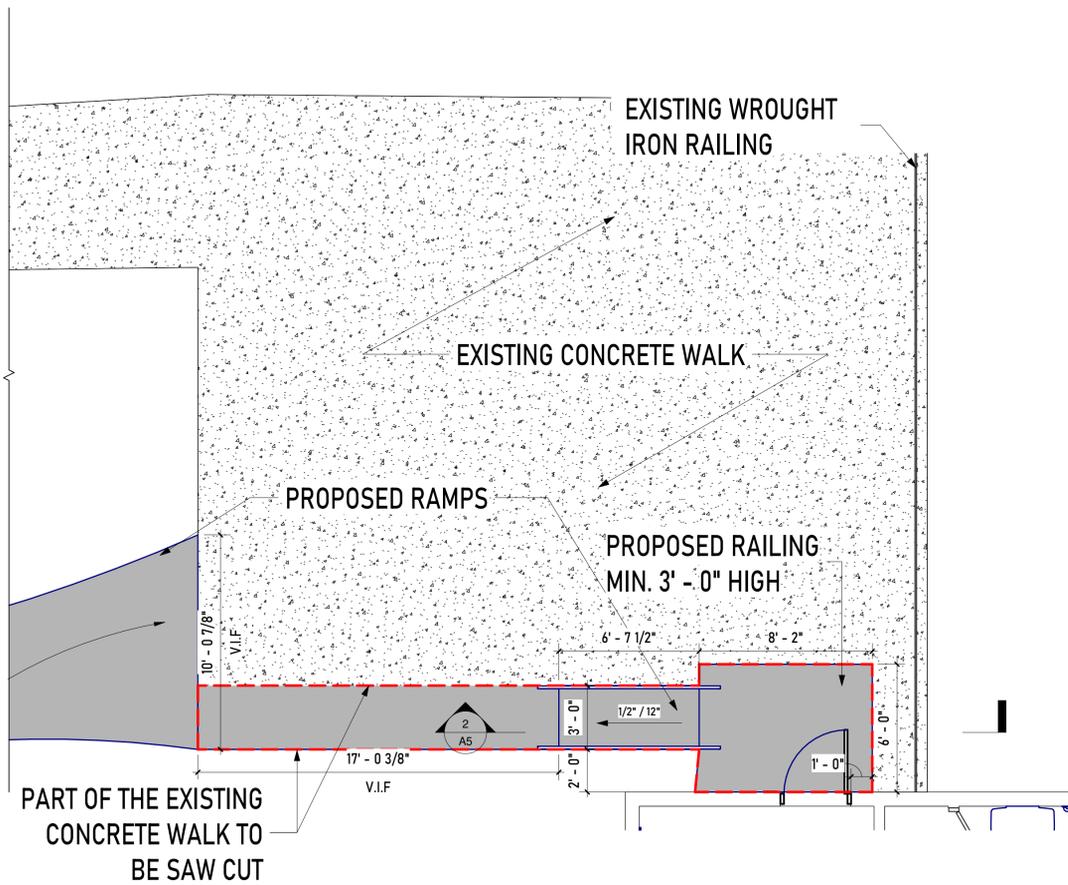
PROJECT #	Project Number
DRAWN BY	Author
CHECKED BY	Checker
DATE	07-07-2024

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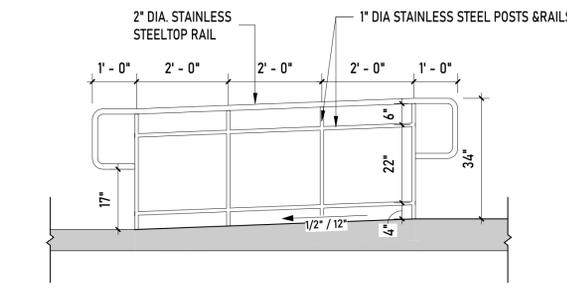
DETAILS

DRAWING TITLE

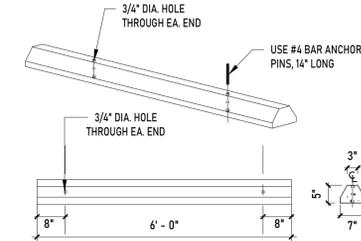
A5



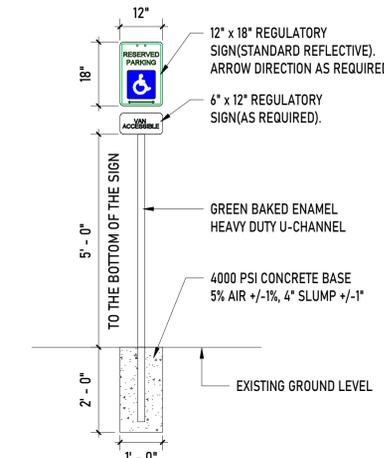
1 PROPOSED RAMP AND LANDING
1/4" = 1'-0"



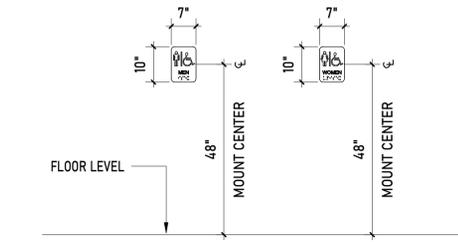
2 RAMP &RAILING DETAIL
1/2" = 1'-0"



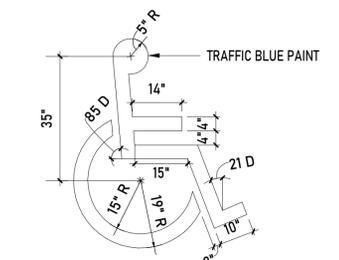
3 PARKING CURB DETAIL
1/2" = 1'-0"



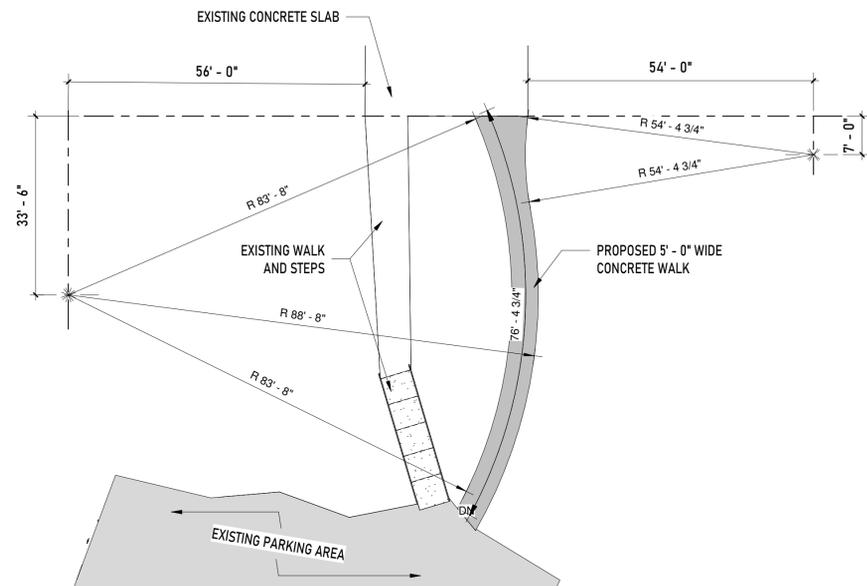
4 PARKING SIGN DETAIL
1/2" = 1'-0"



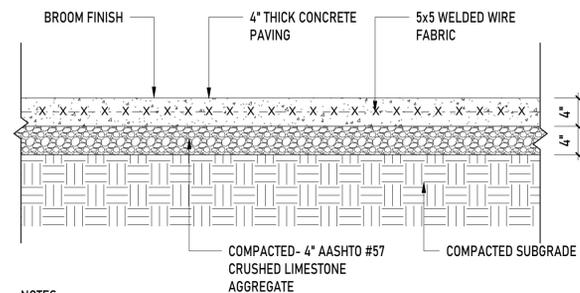
5 HC RESTROOM SIGN DETAILS
1/2" = 1'-0"



6 PARKING SYMBOL DETAIL
1/2" = 1'-0"



7 CONCRETE WALK DETAIL
1/16" = 1'-0"



NOTES

- CONTRACTOR SHALL PLACE CONTROL JOINTS AT INTERVALS EQUAL TO THE PAVEMENT WIDTH NOT TO EXCEED 12'.
- EXPANSION JOINTS SHALL BE INSTALLED AT 50' MAXIMUM INTERVALS.
- CURING SHALL BE BY ABSORPTIVE COVER; MOISTURE-RETAINING COVER; OR APPROVED CURING COMPOUND. CONTRACTOR SHALL SUBMIT PROPOSED CURING METHOD TO OWNER FOR APPROVAL PRIOR TO CONCRETE INSTALLATION.
- APPLY WATER BASED 40% SILANE PENETRATING SEALER AFTER A MINIMUM OF 28 DAYS PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE MINIMUM CROSS-SLOPE OF 1.5% TO MAXIMUM CROSS SLOPE OF 2%.
- FIBERMESH DOSAGE RATE SHALL BE SPECIFIED IN CONCRETE MIX DESIGN SUBMITTED BY CONTRACTOR.

8 CONCRETE WALKWAY DETAIL
1" = 1'-0"

PLUMBING / FIRE PROTECTION

	SANITARY RISER DESIGNATION		MEDICAL GAS ZONE ALARM
	WASTE RISER DESIGNATION		MEDICAL GAS ZONE VALVE
	VENT RISER DESIGNATION		IN-LINE PUMP
	VENT THROUGH ROOF RISER DESIGNATION		IN-LINE PUMP
	WATER HEATER DESIGNATION		ACCESS PANEL
	STORAGE TANK DESIGNATION		ACCESS DOOR
	HEAT EXCHANGER DESIGNATION		AIR SEPARATOR
	CIRCULATING PUMP DESIGNATION		FLOW METER
	FIRE PUMP DESIGNATION		EXPANSION JOINT
	RAIN WATER CONDUCTOR RISER DESIGNATION		BACK PRESSURE REGULATING VALVE
	WATER RISER DESIGNATION		VERTICAL LIFT CHECK VALVE
	GAS RISER DESIGNATION		TEMPERATURE CONTROL TERMINAL
	FIRE PROTECTION RISER DESIGNATION		WATER PIPING DROP
	COLD WATER PIPING		SANITARY, WASTE, VENT & RAIN WATER PIPE DROP
	HOT WATER PIPING		WATER PIPE RISER
	HOT WATER RETURN PIPING		SANITARY, WASTE, VENT & RAIN WATER PIPE RISER
	SANITARY PIPING ABOVE FLOOR		FLOOR DRAIN
	SANITARY PIPING BELOW FLOOR		FLOOR SINK
	VENT PIPING		FUNNEL FLOOR DRAIN
	RAIN WATER PIPING IN CEILING ABOVE		HUB DRAIN
	RAIN WATER PIPING BELOW FLOOR		FLOOR CLEANOUT
	OXYGEN PIPING		SIDE CLEANOUT
	MEDICAL AIR PIPING		PIPE END CAP
	VACUUM PIPING		PIPE PITCH DESIGNATION SLOPE AT 1/8" / FT
	VACUUM SCAVENGING PIPING		PRESSURE GAUGE WITH PET COCK
	NITROGEN PIPING		MANUAL AIR VENT
	NITROUS OXIDE PIPING		THERMOMETER IN SEPARABLE WELL
	COMPRESSED AIR PIPING		FLEXIBLE HOSE CONNECTION
	NATURAL GAS PIPING		DOMESTIC WATER METER
	BALL VALVE		NATURAL GAS METER
	GATE VALVE		WATER HAMMER ARRESTER
	2-WAY CONTROL VALVE		HOSE BIBB
	3-WAY CONTROL VALVE		NON-FREEZE HOSE BIBB
	COMBINATION BALANCING AND SHUT-OFF VALVE		FIRE PROTECTION PIPING
	BUTTERFLY VALVE		OS & Y VALVE WITH TAMPER SWITCH
	OS & Y VALVE		BUTTERFLY VALVE WITH TAMPER SWITCH
	CHECK VALVE/BACK WATER VALVE		FIRE PROTECTION VALVE WITH TAMPER SWITCH
	PRESSURE RELIEF VALVE		FLOW SWITCH
	STRAINER		PRESSURE SWITCH
	STRAINER WITH BLEED VALVE		2-1/2" FIRE DEPARTMENT VALVE
	GLOBE VALVE		FIRE DEPARTMENT CONNECTION
	PLUG VALVE		TEST HOSE HEADERS
	PRESSURE REDUCING VALVE		FIRE HYDRANT
	SOLENOID VALVE		PENDANT SPRINKLER HEAD
	REDUCED PRESSURE TYPE BACK FLOW PREVENTER		UPRIGHT SPRINKLER HEAD
	PIPE GUIDE		SIDE WALL SPRINKLER HEAD
	PIPE ANCHOR		
	PIPE EXPANSION LOOP		
	UNION		
	GAS COCK		
	AUTO GAS SHUT-OFF VALVE		
	GAS PIPING DIRT LEG		

GENERAL GRAPHIC SYMBOLS

	PLAN NUMBER
	DRAWING NUMBER
	SECTION NUMBER
	DRAWING NUMBER
	DRAWING NOTE DESIGNATION
	DEMOLITION NOTE DESIGNATION
	POINT OF CONNECTION BETWEEN NEW WORK & EXISTING WORK
	POINT OF DEMOLITION
	REVISION CLOUD AND NUMBER
	SQUARE FOOT
	CENTER LINE
	ANGLE
	PLATE
	3HR. WALL
	2HR. WALL
	1HR. WALL
	SMOKE WALL
	WIRING UNDER FLOOR OR UNDER GROUND
	EXISTING WORK
	NEW WORK
	DEMOLITION WORK (MECH, PLUMB & FIRE PROT.)
	DEMOLITION WORK (ELECTRICAL)

SYSTEM	PIPE SIZE	LOCATION	MATERIAL	SCHEDULE OR TYPE	FITTING	JOINT	REMARKS
SANITARY	ALL	BELOW GRADE	CAST IRON	SERVICE WEIGHT C.I.	CAST IRON	BELL & SPIGOT WITH LEAD AND OAKUM	PROVIDE INSPECTION REPORTS PRIOR TO BACKFILL.
	3" AND LARGER	ABOVE GRADE	CAST IRON	HUBLESS CAST IRON	CAST IRON	HEAVY DUTY STAINLESS STEEL COUPLINGS	
SANITARY VENT	2-1/2" AND SMALLER	ABOVE GRADE	CAST IRON COPPER	SERVICE WEIGHT COPPER DWVTUBE	CAST IRON COPPER	HEAVY DUTY STAINLESS STEEL COUPLINGS COPPER SOLDERED	ALL EXPOSED SANITARY PIPING BELOW PLUMBING FIXTURES SHALL BE CHROME PLATED BRASS.
	3" AND LARGER	ABOVE GRADE	CAST IRON	HUBLESS CAST IRON	CAST IRON	HEAVY DUTY STAINLESS STEEL COUPLINGS	
DOMESTIC COLD WATER	ALL	ABOVE GRADE	COPPER	TYPE 'L'	WROUGHT COPPER	COPPER SOLDERED	95% TIN & 5% ANTIMONY
DOMESTIC HOT WATER	ALL	ABOVE GRADE	COPPER	TYPE 'L'	WROUGHT COPPER	COPPER SOLDERED	95% TIN & 5% ANTIMONY
CONDENSATE	ALL	ABOVE GRADE	COPPER	TYPE 'L'	WROUGHT COPPER	COPPER SOLDERED	95% TIN & 5% ANTIMONY

NOTES:
 1. SUPPLY FIXTURE WITH 1/4" TURN SHUT OFF VALVES ON DOMESTIC WATER LINES AT AN ACCESSIBLE LOCATION TO THE FIXTURE.
 2. FIXTURE PROVIDED WITH CABINETS AND INSTALLED BY THE GENERAL CONTRACTOR - SEE ARCHITECTURAL DRAWINGS AND SPECIFICATION FOR FIXTURE TYPE. THIS CONTRACTOR TO PROVIDE ALL MATERIAL NECESSARY TO FULLY PLUMB FIXTURE AND ALL ACCESSORIES SHOWN PER MANUFACTURER'S RECOMMENDATIONS.
 3. PROVIDE WITH CLOSET FLANGE AND EXTRA WAX RING.

ROSETREE PARK

MEDIA PENNSYLVANIA



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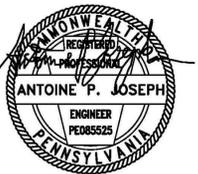
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ARCHITECTURE PLANNING DEVELOPMENT

SEAL:



07-11-2024

Mark	Revisions	Date
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ALL DIMENSIONS AND RELATIONSHIPS MUST BE VERIFIED BY CONTRACTOR. THE ARCHITECT IS TO BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE CONSTRUCTION. DO NOT SCALE FROM DRAWINGS.

PROJECT #	Project Number
DRAWN BY	JW
CHECKED BY	JW
DATE	05/13/24

BID SET

PLUMBING SYMBOLS AND ABBREVIATIONS

DRAWING TITLE

P000



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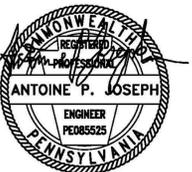
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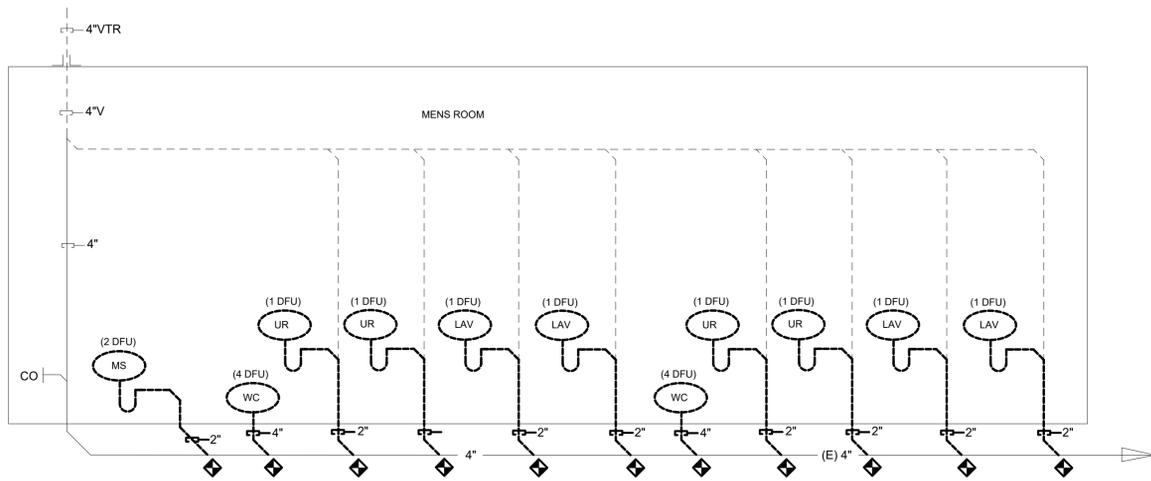
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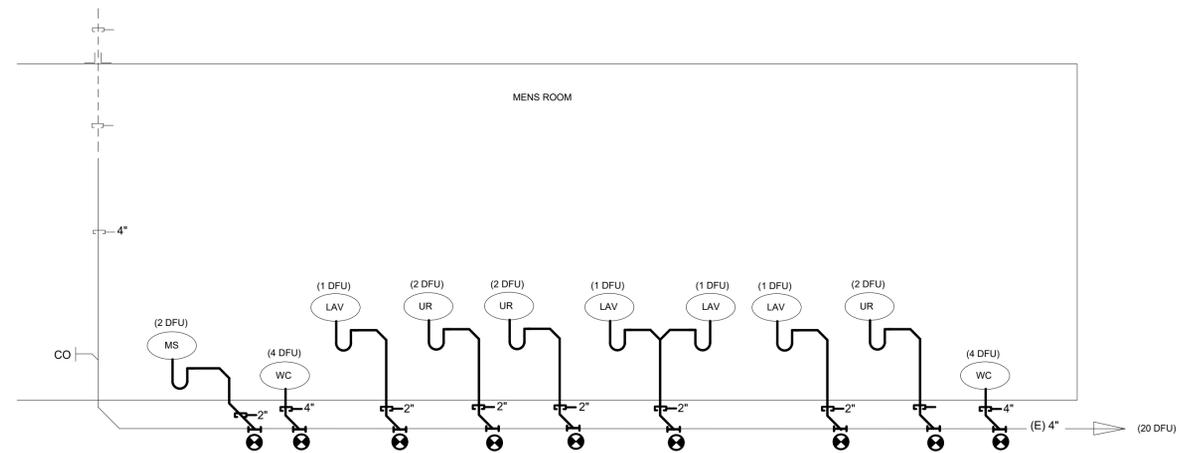
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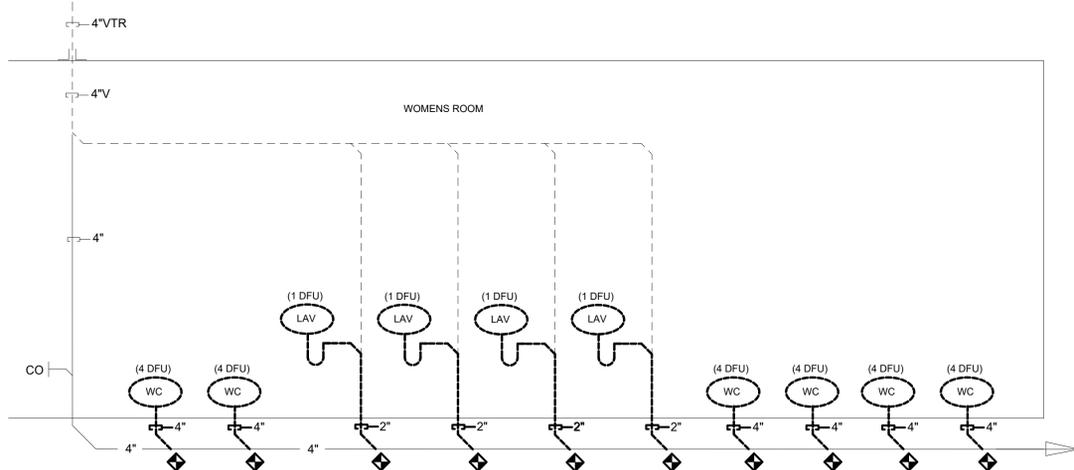
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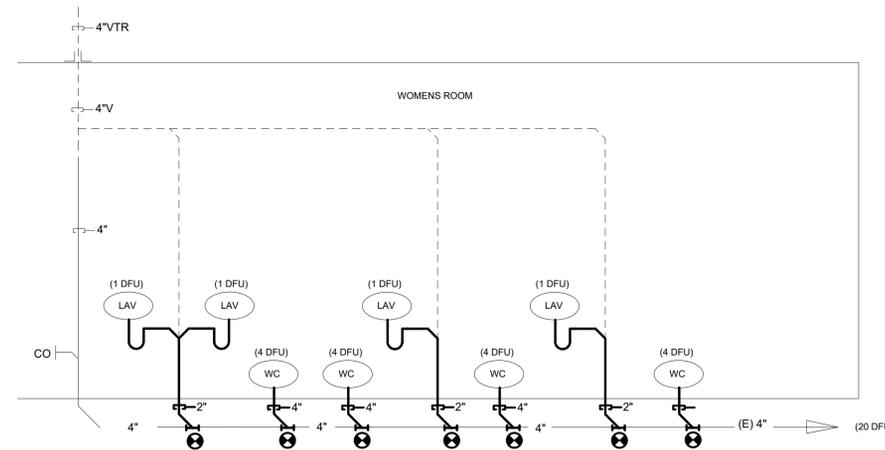
1 MALE RESTROOM SANITARY DEMOLITION PLAN
P200 Scale: N.T.S.



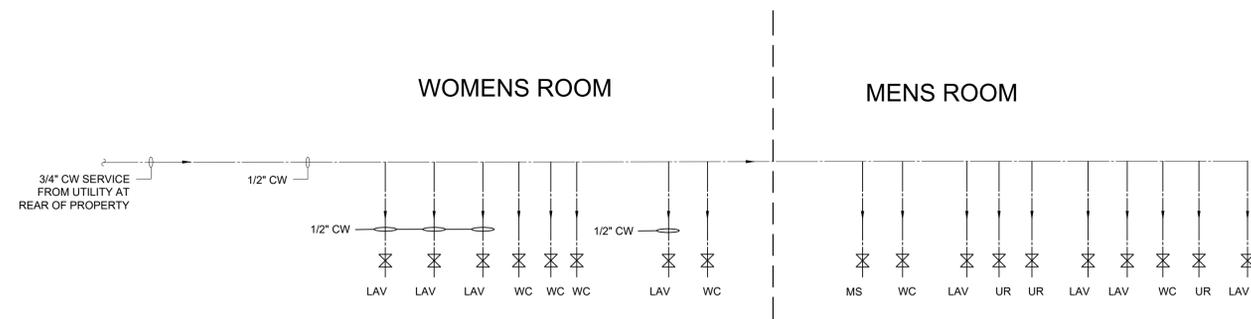
3 MALE RESTROOM PROPOSED SANITARY PLAN
P200 Scale: N.T.S.



2 WOMENS RESTROOM SANITARY DEMOLITION PLAN
P200 Scale: N.T.S.



4 WOMENS RESTROOM PROPOSED SANITARY PLAN
P200 Scale: N.T.S.



5 MENS -WOMENS DOMESTIC WATER RISER
P200 Scale: N.T.S.

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DEMO AND PROPOSED SANITARY & DOMESTIC WATER RISER DIAGRAMS

DRAWING TITLE

P200

MUSTEE Mop Service Basin — Model 63M
SEE PAGE 2 FOR A LIST OF ACCESSORIES!



Design features:

- All Mustee basins are one-piece molded from high impact resistant DURASTONE® structural fiberglass (24" x 24")
- Integral, molded-in drain for connection to 3" ABS, PVC (Sch. 80) or cast iron
- Available drain seals for connection to 2" pipe or 3" soil pipe
- Complete range of accessories to meet specific application needs
- Colorfast marbled white finish
- Easy to install

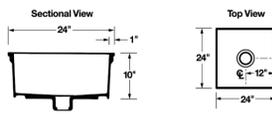
Code Accepted

- Mustee Mop Service Basins meet or exceed performance requirements as listed:
- International Association of Plumbing and Mechanical Officials (IAPMO)® Listed
 - Warnock Hersey® (Canada) Listed—CSA test standards: Mop Basins - #B45.0
 - American National Standards Institute (ANSI)-Specification Z 124-2011
 - American Society of Testing and Materials (ASTM) D 835 E 84 and E 162
 - CAN/ULC S102-07 Burn and Smoke Test

Specifications

Model Number	Model	H x W x D	UPC
63M	White	10" x 24" x 24"	6 71031 00189 4

General: Furnish and install as shown on plans. Mop Service Basin model 63M, as manufactured by E.L. Mustee & Sons, Inc. Unit to be one-piece molded fiberglass made with matched metal molds using extreme heat and pressure. Height shall be 10" with not less than 1" wide shoulder. Size 24" x 24". Drain shall be integrally molded, complete with drain seal for installation of 3" ABS, PVC (Sch. 80) and non-lead flammable stainless steel strainer. Performance tested to meet or exceed ANSI Z 124-2011 and FWA-HD LHM-73. Weight 45 lbs., cubic feet 4.2. Install in compliance with local codes.



E.L. Mustee & Sons, Inc. • 5421 West 154th Street • Brook Park, OH 44142 • Phone: 216.282.3100 • Fax: 216.282.7997
E-mail: info@mustee.com • Web: www.mustee.com • Proudly made in the USA



Afwall® Millennium™ FloWise® Elongated Flushometer Toilet
VITREOUS CHINA LESS EVERCLEAR®

- Wall-mounted flushometer valve toilet
- Vitreous china
- Conventional glaze
- High Efficiency, Low Consumption. Operates in the range of 1.1 gpf to 1.6 gpf (4.2 Lpf to 6.0 Lpf)
- Meets definition of HET (High Efficiency Toilet) when used with a high efficiency flush valve (1.1 gpf - 1.6 gpf or 1.28/1.1 gpf dual flush)
- Maximum Performance (MaP) score of 1,000 grams at 1.1 gpf - 1.6 gpf
- Condensation channel
- Concealed trapway design
- Elongated bowl
- Powerful direct-vent siphon jet action
- 1-1/2" inlet spud
- Fully-glazed 2-1/8" trapway
- 10" x 12" water surface area
- Tested to support static weight load of 1,000 lbs. (454 kg)



- 2257.101 Elongated bowl only, top spud
- 2633.101 Elongated bowl only, top spud with slotted rim for bedpan holding
- 2634.101 Elongated bowl only, back spud

System MaP® Score:
1,000 grams of miso @ 1.1 gpf to 1.6 gpf when used with an American Standard flush valve

Component Parts:
047007-0070A Inlet Spud (furnished with bowl)

Nominal Dimensions:
650 x 356 x 381mm (26" x 14" x 15")

Recommended working pressure—between 25 psi at valve when flushing and 80 psi static

Fixture only, less seat, bolt caps, and flushometer valve

Compliance Certifications - Meets or Exceeds the Following Specifications:
• ASME A112.19.2/CSA B45.1 for Vitreous China Fixtures

MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 REQUIREMENTS FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES—CHECK LOCAL CODES

- To Be Specified:**
- Color: White
 - Seat: American Standard #5901.100 Heavy duty open front less cover
 - American Standard #5905.100 Extra heavy duty open front less cover
 - Flushometer Valve: 1.1 gpf: Sensor-Operated: American Standard Electronic® DC Power #6065.121.002 (Top Spud) AC Power #6067.161.002 (Top Spud) 1.28 gpf: Sensor-Operated: American Standard Electronic® DC Power #6065.121.002 (Top Spud) AC Power #6067.121.002 (Top Spud) Manual: American Standard #6047.121.002 (Top Spud) 1.6 / 1.1 gpf Dual Flush: Sensor-Operated: American Standard Electronic® DC Power #6065.721.002 (Top Spud) AC Power #6067.761.002 (Top Spud) 1.28 / 1.1 gpf Dual Flush: Sensor-Operated: American Standard Electronic® DC Power #6065.721.002 (Top Spud) AC Power #6067.721.002 (Top Spud)



Installation



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Read the instructions in this manual before beginning installation. Save these instructions and refer to them for inspection, maintenance, and troubleshooting information.

For questions regarding the operation, installation or maintenance of this product, visit bradleycorp.com or call 800.BRADLEY (800.272.3536).

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Page 1 of 44 11/8/2023

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SMITH JAY R SMITH MFG. CO. LOCATION

URINAL SUPPORTS FOR OFF-FLOOR URINALS

WITH PLATE FOR BLOWOUT AND WASHOUT URINALS WITH WALL HANGERS

ROUGH-IN TABLE

FIXTURE MFG.	NAME	NUMBER	A	B	D	E	F	G	H	J	K	L
Am. Std.	Washbrook	6501.010	24 (810)	38 (990)	13 1/2 (345)	21 (530)	7 (180)	1/2 (13)	1 3/16 (30)	2 (51)	X	-
Am. Std.	Washbrook	6506.011	24 (810)	38 (990)	13 1/2 (345)	21 (530)	7 (180)	1/2 (13)	1 3/16 (30)	2 (51)	X	-
Am. Std.	Lynbrook	6508.010	24 (810)	40 (1015)	13 1/2 (345)	21 (530)	7 (180)	1/2 (13)	1 3/16 (30)	1 (25)	X	-
Am. Std.	Lynbrook	6531.019	24 (810)	40 (1015)	13 1/2 (345)	21 (530)	7 (180)	1/2 (13)	1 3/16 (30)	1 (25)	X	-
Am. Std.	Trimbrook	6550.013	24 (810)	37 5/8 (950)	11 (280)	16.38 (416)	5 (125)	1 (25)	1 3/16 (30)	1 (25)	X	-
Am. Std.	Trimbrook	6550.023	24 (810)	37 5/8 (950)	11 (280)	16.38 (416)	5 (125)	1 (25)	1 3/16 (30)	1 (25)	X	-
Am. Std.	Trimbrook	6555.014	24 (810)	37 5/8 (950)	11 (280)	16.38 (416)	5 (125)	1 (25)	1 3/16 (30)	1 (25)	X	-
Am. Std.	Trimbrook	6555.022	24 (810)	37 5/8 (950)	11 (280)	16.38 (416)	5 (125)	1 (25)	1 3/16 (30)	1 (25)	X	-
Eljer	Genexo	161-1000.45	24 (810)	38 3/8 (1000)	12 (295)	21 (530)	5 1/4 (136)	1 (25)	1 (25)	1 (25)	X	-
Eljer	Terminal	161-1100.3	25 1/2 (650)	33 7/8 (860)	9 1/2 (240)	23 1/4 (590)	6 (150)	2 (51)	1 (25)	1 (25)	X	-
Eljer	Dover	161-1100.75	24 (810)	32 3/8 (825)	6 (150)	17 (430)	6 (150)	1 (25)	1 (25)	1 (25)	X	-
Kohler	Starwell	K-4970-T.R.	24 (810)	40 (1015)	12 (305)	22 (560)	5.38 (137)	1 (25)	1 (25)	1 (25)	X	-
Kohler	Bardon	K-4980-T.R.	24 (810)	40 1/2 (1020)	12 (305)	21 (530)	8 1/4 (210)	1 (25)	1 (25)	1 (25)	X	-
Kohler	Derry	K-5007-T.R.	24 (810)	29 1/2 (750)	6 (150)	22 (560)	6 (150)	1 (25)	1 (25)	1 (25)	X	-
Kohler	Dexter	K-5014-T.R.	24 (810)	32 1/8 (810)	6 1/2 (165)	17.58 (448)	6 (205)	1 (25)	1 (25)	1 (25)	X	-

FIGURE NUMBER 0637

American Standard Washbrook® FloWise® Universal Urinal

VITREOUS CHINA

- Vitreous china
- Ultra High Efficiency, Low Consumption. Operates in the range of 0.125gpf to 1.0gpf (0.5 Lpf to 3.8 Lpf)
- Flushing rim
- Elongated 14" rim from finished wall
- Washout flush action
- Extended sides for privacy
- 3/4" inlet spud
- Outlet connection threaded 2" inside (NPTF)
- Fixture only
- Strainer included
- Meets ASME flush requirements at 0.125 to 1.0 gpf

Compliance Certifications - Meets or Exceeds the Following Specifications:
• ASME A112.19.2-2008/CSA B45.1-08 for Vitreous China Fixtures

Nominal Dimensions:
360 x 480 x 664mm (14-1/8" x 18-7/8" x 26-1/8")

Recommended working pressure – between 20 psi at valve when flushing and 80 psi static

To Be Specified:
 Color: White
 Flush Valve: Sensor-Operated: American Standard Electronic® #6063.101.002 DC Power (Top Spud) American Standard Electronic® #6062.011.002 AC Power (Back Spud)
 1.0 gpf Flush Valve: Manual-Operated: American Standard # 6045.101.002
 0.5 gpf Flush Valve: Sensor-Operated: American Standard Electronic® #6063.051.002 DC Power (Top Spud) American Standard Electronic® #6062.051.002 AC Power (Back Spud)
 0.5 gpf Flush Valve: Manual-Operated: American Standard #6045.051.002
 0.125 gpf Flush Valve: Sensor-Operated: American Standard Electronic® #6063.013.002 DC Power (Top Spud) American Standard Electronic® #6062.013.002 AC Power (Back Spud)
 0.125 gpf Flush Valve: Manual-Operated: American Standard #6045.013.002

CEC, ADA, and other certification logos.

SMITH JAY R SMITH MFG. CO. LOCATION

ADJUSTABLE FIXTURE SUPPORTS FOR SIPHON JET WATER CLOSETS SHALLOW ROUGH-IN TYPE

NO-HUB HORIZONTAL FITTINGS

SINGLE Thrust Bearing Nuts And Washers
DOUBLE Thrust Bearing Nuts And Washers

FIGURE NUMBER 0211Y, 0221Y

ROSETREE PARK

MEDIA PENNSYLVANIA



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ARCHITECTURE PLANNING DEVELOPMENT

SEAL:



07-11-2024

Mark	Revisions	Date

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PROJECT # Project Number

DRAWN BY JW

CHECKED BY JW

DATE 05/13/24

BID SET

PLUMBING FIXTURE CUT SHEETS

DRAWING TITLE

P300

ABBREVIATIONS

(E)	EXISTING TO REMAIN	MCC	MOTOR CONTROL CENTER
(R)	EXISTING TO BE RELOCATED	MCP	MOTOR CIRCUIT PROTECTOR
(X)	EXISTING TO BE REMOVED	MDP	MAIN DISTRIBUTION PANEL
A	AMPERE(S)	MECH	MECHANICAL
A/V	AUDIO/VISUAL	MH	MANHOLE
AC	ALTERNATING CURRENT	MIC	MICROPHONE
AF	AMP FRAME	MLO	MAIN LUGS ONLY
AFF	ABOVE FINISHED FLOOR	MTD	MOUNTED
AFG	ABOVE FINISHED GRADE	MTG	MOUNTING
AIC	AMPERES INTERRUPTING CAPACITY	MTR	MOTOR
AT	AMPERE TRIP	NC	NORMALLY CLOSED
ATC	AUTOMATIC TEMPERATURE CONTROL	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
ATS	AUTOMATIC TRANSFER SWITCH	NFSS	NON-FUSED SAFETY SWITCH
AWG	AMERICAN WIRE GAUGE	N.I.C	NOT IN CONTRACT
BFC	BELOW FINISHED CEILING	NL	NIGHT LIGHT
BMS	BUILDING MANAGEMENT SYSTEM	NO	NORMALLY OPEN
BUS	BUSWAY	NTS	NOT TO SCALE
C	CONDUIT	OC	ON CENTER
CATV	CABLE ANTENNA TELEVISION	OL	OVERLOAD ELEMENT
CC	CONTROL CABINET	P	POWER OR POLE
CCTV	CLOSED CIRCUIT TELEVISION	PB	PUSH BUTTON
CKT	CIRCUIT	PC	PLUMBING CONTRACTOR
CL	COLUMN LINE	PE	PHOTOELECTRIC CONTROLLER
CLG	CEILING	PF	POWER FACTOR
CMH	COMMUNICATIONS MANHOLE	PH	PHASE
CP	CONTROL PANEL	PL	PILOT LIGHT
CT	CURRENT TRANSFORMER	PNL	PANEL
CU	COPPER	PP	POWER PANEL
D	DATA	PR	PRIMARY
DC	DIRECT CURRENT	PS	PULL STATION
DP	DOUBLE POLE	PAN, TILT, ZOOM CAMERA	PAN, TILT, ZOOM CAMERA
DS	DISCONNECT SWITCH	POLYVINYL CHLORIDE	POLYVINYL CHLORIDE
DT	DOUBLE THROW	R	RELAY
EC	ELECTRICAL CONTRACTOR	RAC	RIGID ALUMINUM CONDUIT
EF	EXHAUST FAN	RAF	RETURN AIR FAN
ELEV	ELEVATOR	RC	REMOTE CONTROL
ELU	EMERGENCY LIGHTING UNIT	RCP	REFLECTED CEILING PLAN
EMH	ELECTRIC MANHOLE	RECPT	RECEPTACLE
EMT	ELECTRICAL METALLIC TUBING	RM	ROOM
EPO	EMERGENCY POWER OPERATOR	RTU	ROOF TOP UNIT
ETR	EXISTING TO REMAIN	SAF	SUPPLY AIR FAN
EUH	ELECTRICAL UNIT HEATER	SC	SPRINKLER CONTRACTOR
EWC	ELECTRIC WATER COOLER	SD	SMOKE DETECTOR
FA	FIRE ALARM	SEC	SECONDARY
FAAP	FIRE ALARM ANNUNCIATOR PANEL	SP	SINGLE POLE
FACP	FIRE ALARM CONTROL PANEL	SPKR	SPEAKER
FB	FLOOR BOX	ST	SINGLE THROW
FBO	FURNISHED BY OTHERS - INSTALLED AND WIRED BY EC	SM	SURFACE MOUNTED
FCC	FIRE CONTROL CENTER	SW	SWITCH
FDR	FEEDER	SWBD	SWITCHBOARD
FLA	FULL LOAD AMPS	T	TELEPHONE
FLR	FLOOR	TC	TIMECLOCK
FO	FULL OUTPUT	TD	TIME DELAY
FS	FLOW SWITCH	TEMP	TEMPORARY
FSS	FUSED SAFETY SWITCH	TS	TAMPER SWITCH
FU	FUSED	TV	TELEVISION
G	GROUND	TYP	TYPICAL
GC	GENERAL CONTRACTOR	UFD	UNDERFLOOR DUCT
GFCI	GROUND FAULT CIRCUIT INTERRUPTING	UG	UNDER GROUND
GND	GROUND	UH	UNIT HEATER
GRS	GALVANIZED RIGID STEEL CONDUIT	UON	UNLESS OTHERWISE NOTED
HD	HEAT DETECTOR	V	VOLTS
HID	HIGH INTENSITY DISCHARGE	VA	VOLT-AMPERES
HP	HORSE POWER	VP	VAPOR PROOF
HPS	HIGH PRESSURE SODIUM	W	WATTS
HT	ELECTRIC HEAT TRACE	WP	WEATHERPROOF
HZ	HERTZ	XFMR	TRANSFORMER
IG	ISOLATED GROUND	XP	EXPLOSION PROOF
IMC	INTERMEDIATE METALLIC CONDUIT		
INC	INCANDESCENT		
JB	JUNCTION BOX		
KVA	KILOVOLT AMPERE(S)		
KVAR	KILOVOLT AMPERE-REACTIVE(S)		
KW	KILOWATT(S)		
LBS	LOAD BREAK SWITCH		
LP	LIGHTING PANEL		
LPS	LOW PRESSURE SODIUM		
MATV	MASTER ANTENNA TELEVISION		
MC	MECHANICAL CONTRACTOR		
MCB	MAIN CIRCUIT BREAKER		

ELECTRICAL DEVICE SYMBOLS

	WALL-MOUNTED DUPLEX RECEPTACLE
	WALL-MOUNTED DUPLEX GROUND FAULT INTERRUPTER
	WALL-MOUNTED WATER PROOF DUPLEX RECEPTACLE
	WALL MOUNTED SWITCH WITH OCCUPANCY SENSOR

LIGHTING FIXTURES SYMBOLS

	1X 4 LED FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	WALL MOUNTED EXIT SIGN
	WALL MOUNTED EXIT SIGN W/ DIRECTIONAL ARROW
	EMERGENCY BATTERY LIGHT FIXTURE
	REMOTE EMERGENCY BATTERY HEADS

POWER DISTRIBUTION SYMBOLS

	SURFACE MOUNTED PANEL BOARD
	FLUSH MOUNTED PANEL BOARD
	CEILING MOUNTED JUNCTION BOX
	4 X 4 WALL MOUNTED JUNCTION BOX

FIRE ALARM SYMBOLS

	FIRE ALARM PULL STATION
	HORN/STROBE
	HEAT DETECTOR
	SYSTEM SMOKE DETECTOR
	FIRE ALARM CONTROL PANEL
	REMOTE ANNUNCIATOR
	CEILING-MOUNTED STROBE
	NON SYSTEM APARTMENT SMOKE DETECTOR
	120V TAMPER SWITCH
	120V FLOW SWITCH

GENERAL ELECTRICAL NOTES:

- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, LOCAL CODES, THE LOCAL AUTHORITY HAVING JURISDICTION, AND INDUSTRY STANDARDS AND PRACTICES
- ALL DEVICES AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE NEW AND FREE OF ANY DEFECTS
- ALL CONDUIT SHALL BE 3/4" DIAMETER MINIMUM, UNLESS OTHERWISE NOTED
- MINIMUM CONDUCTOR SIZE SHALL BE #12AWG THHN OR THWN, COPPER CONDUCTORS, UNLESS OTHERWISE NOTED
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED APPROVALS, PERMITS, AND ACCEPTABLE INSPECTIONS FROM ALL AGENCIES
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT AND CABLE TRAY PENETRATIONS THROUGH CHAISES, WALLS, FLOORS, AND CEILINGS WHICH ARE FIRE RATED. THE ELECTRICAL CONTRACTOR SHALL PROPERLY SEAL ALL PENETRATIONS TO MAINTAIN FIRE PROTECTION RATING
- THE GROUND ELECTRODE CONDUCTORS SHALL BE SIZED AND GROUNDED PER NEC 250.66
- THE EQUIPMENT GROUND SHALL BE SIZED PER NEC ARTICLE 250.122 AND BE CONTINUOUS THROUGH THE ELECTRICAL SYSTEM WITH A SEPARATE GREEN GROUND INSTALLED IN ALL CONDUITS, WITHOUT EXCEPTION
- PROVIDE BONDING FOR ALL ELECTRICAL AND SYSTEM CONDUITS, STUB-UPS, SURFACE RACEWAY, CABLE TRAYS, AND THE LIKE TO GROUNDING SYSTEM PER NEC REQUIREMENTS
- CONDUIT SHALL BE GROUNDED AND BONDED TO ASSURE ELECTRICAL CONTINUITY AND THE CAPACITY TO SAFELY CONDUCT ANY FAULT CURRENT LIKELY TO BE IMPOSED

MOUNTING HEIGHTS - ELECTRICAL EQUIPMENT

9" BELOW FINISHED CEILING	-WALL MOUNTED BELLS AND FIRE ALARM SOUNDING DEVICE (OR AS SHOWN ON ARCHITECTURAL DETAILS) -TV MONITOR OUTLETS AND SERVICE RECEPTACLES FOR SHELF MOUNTED TV OR AS SHOWN ON A/V PLANS)
CENTERED ABOVE DOOR OR WINDOW OPENING	-WARNING OR SIGNALING FIXTURES/SIGNS
6'-8"	-FIRE ALARM STROBES MOUNTED AT 6'-8" OR 6" BELOW FINISHED CEILING (WHICH EVER IS LOWER)
6'-6"	-TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL LIGHTING OR POWER PANELBOARDS AND TELEPHONE CABINETS
6'-3"	-TOP OF BACK MOUNTED WALL EXIT FIXTURES (NOT MOUNTED ABOVE DOORS)
6'-0"	-TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT SWITCHES, MAGNETIC STARTERS AND CONTACTORS.
4'-6"	-WALL MOUNTED TELEPHONE AND PAY STATIONS (3'-6" AT HANDICAP LOCATIONS)
4'-0"	-WALL MOUNTED ELECTRICAL DEVICE LIGHTING SWITCHES, MANUALS MOTOR STARTERS, THERMOSTATS AND FIRE ALARM PULL STATIONS. -INCLUDES ALL FLOOR EQUIPMENT IN LABS AND EQUIPMENT ROOMS. - GFI OUTLETS IN TOILET ROOMS
1'-6"	-ELECTRICAL RECEPTACLES WITHIN MECHANICAL SPACES, ELECTRICAL ELEVATOR ROOMS. -ELECTRICAL RECEPTACLES -TELEPHONE, DATA AND COMMUNICATIONS OUTLETS -CATV AND A/V JUNCTION BOXES

NOTES:

- MOUNTING HEIGHTS TO CENTER OF OUTLETS UNLESS OTHERWISE NOTED. IN MASONRY CONSTRUCTION, THE ABOVE HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSING.
- THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS.
- IF THERE IS AN ASTERISK BESIDE A DEVISE IT INDICATES THAT THE DEVISE IS MOUNTED ABOVE COUNTER OR CASEWORK. COORDINATE WITH ARCHITECTURAL DETAILS AND CASEWORK CONTRACTOR.

ROSETREE PARK

MEDIA PENNSYLVANIA



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SEAL:



07-11-2024

Mark	Revisions	Date
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PROJECT #	Project Number
DRAWN BY	JW
CHECKED BY	JW
DATE	05/13/24

BID SET

ELECTRICAL SYMBOLS AND ABBREVIATIONS

DRAWING TITLE

E000

ROSETREE
PARK

MEDIA PENNSYLVANIA



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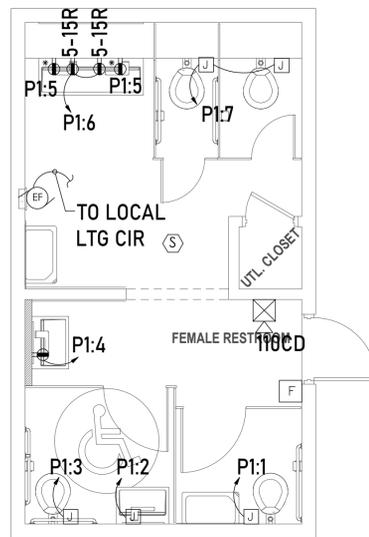


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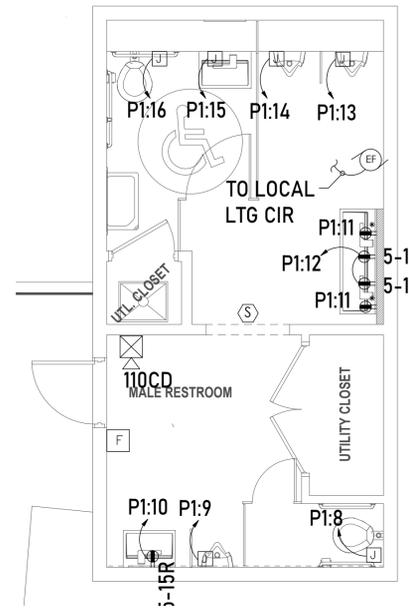


07-11-2024

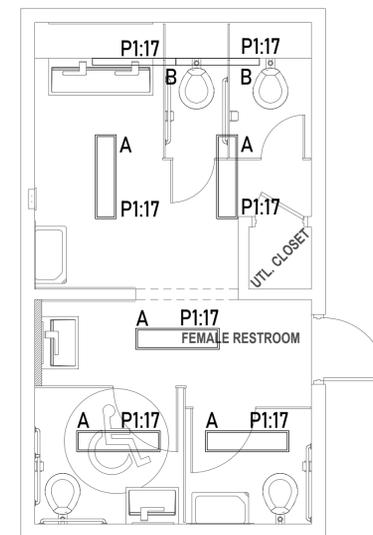
LIGHTING FIXTURE SCHEDULE							
FIXTURE TYPE	MANUFACTURER	CATALOG #	WATTS	LAMPS	LAMP TYPE	VOLTS	DESCRIPTION
A	LITHONIA	TBD	128	1	LED	120	1X4 LAY-IN FIXTURE B.O.D
B	LITHONIA	TBD	64	1	LED	120	INDUSTRIAL STRIP



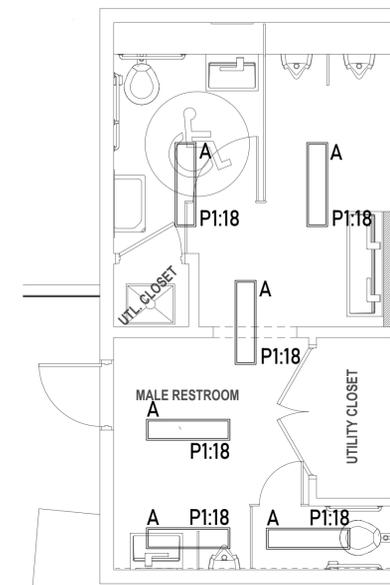
1 FEMALE RESTROOM POWER PLAN
E100 Scale: 3/16" - 1'-0"



2 MALE RESTROOM POWER PLAN
E100 Scale: 3/16" - 1'-0"



3 FEMALE RESTROOM LIGHTING PLAN
E100 Scale: 3/16" - 1'-0"



4 MALE RESTROOM LIGHTING PLAN
E100 Scale: 3/16" - 1'-0"

Mark	Revisions	Date

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BID SET

ELECTRICAL POWER &
LIGHTING PLANS

DRAWING TITLE

E100

EXISTING ELECTRICAL SERVICE FROM UTILITY 120/240V, 1φ, 3W



1 EXISTING SINGLE LINE DIAGRAM
Scale: N.T.S.

COPPER WIRE & CONDUIT SIZING SCHEDULE						
CIRCUIT BREAKER	AMPERAGE	WIRE SIZE (AWG)		NO. OF WIRES & CONDUIT SIZE IN INCHES		
		CONDUCTOR # & NEUT.	GROUND	A 1φ, 2W+G	B 3φ, 3W+G	C 3φ, 4W+G
1	15A	14	14	3/4	3/4	3/4
2	20A	12	12	3/4	3/4	3/4
3	30A	10	10	3/4	3/4	1
4	40A	8	10	3/4	1	1
5	50A	6	10	3/4	1	1
6	60A	4	10	3/4	1	1
7	70A	4	8	1	1	1 1/4
8	80A	3	8	1	1 1/4	1 1/4
9	90A	2	8	1	1 1/4	1 1/4
10	100A	1	8	1 1/4	1 1/2	1 1/2
11	125A	1	6	1 1/4	1 1/2	2
12	150A	1/0	6	1 1/4	1 1/2	2
13	175A	2/0	6	1 1/4	1 1/2	2
14	200A	3/0	6	1 1/2	2	2
15	225A	4/0	4	1 1/2	2	2 1/2
16	250A	250	4	2	2	2 1/2
17	300A	350	4	2	2 1/2	3
18	350A	500	3	2 1/2	3	3 1/2
19	400A	500	3	2 1/2	3	3 1/2
20	450A	750	2	-	3 1/2	4
21	500A	250	2	-	(2)2 1/2	(2)2 1/2
22	600A	350	1	-	(2)2 1/2	(2)3
23	700A	500	1/0	-	(2)3	(2)3 1/2
24	800A	600	1/0	-	(2)3	(2)3 1/2
25	1000A	400	2/0	-	(3)3	(3)3
26	1200A	600	3/0	-	(3)3	(3)3 1/2
27	1600A	600	4/0	-	(4)3 1/2	(4)3 1/2
28	2000A	600	250	-	(5)3 1/2	(5)4
29	2500A	600	350	-	(6)3 1/2	(6)4
30	3000A	500	400	-	(8)3	(8)3 1/2
31	4000A	750	500	-	(9)4	(9)4
32	5000A	500	700	-	(14)3 1/2	(14)3 1/2
33	6000A	500	800	-	(16)3 1/2	(16)4

NOTE: NUMBERS IN PARENTHESIS REFLECT TOTAL SETS OF CONDUITS AND WIRE. FOR EXAMPLE, A 500A, 4 WIRE FEEDER WOULD BE (2)SETS OF (4)250KCMIL AND (1)#2G IN 3" CONDUIT.

Panel Name: P1
Panel Voltage: 240/120V, 1 Phase, 3 Wire

Main Lugs Only Main Breaker: **200**
Panel A.I.C. Rating: **10k**

ID	Description	Breaker		Load			Phase			Load			Breaker	Description	ID
		P	Trip	Code	VA	A	B	VA	Code	Trip	P				
N 1	FLUSHOMETER	1	20	REC	800	1300				500	REC	20	1	AUTOMATIC FAUCET	2
N 3	FLUSHOMETER	1	20	REC	720				1220	500	REC	20	1	AUTOMATIC FAUCET	4
N 5	SINK GFCI	1	20	REC	360	860				500	REC	20	1	AUTOMATIC FAUCET	6
N 7	FLUSHOMETER	1	20	REC	800				1300	500	REC	20	1	AUTOMATIC FAUCET	8
N 9	URINAL FLUSHOMETER	1	20	REC	350	850				500	REC	20	1	AUTOMATIC FAUCET	10
N 11	SINK GFCI	1	20	REC	360				860	500	REC	20	1	AUTOMATIC FAUCET	12
N 13	URINAL FLUSHOMETER	1	20	REC	360	860				500	REC	20	1	URINAL FLUSHOMETER	14
N 15	AUTOMATIC FAUCET	1	20	REC	360				860	500	REC	20	1	FLUSHOMETER	16
N 17	SPARE	1	20									20	1	SPARE	18
N 19	SPARE	1	20									20	1	SPARE	20
N 21	SPARE	1	20									20	1	SPARE	22
N 23	SPARE	1	20									20	1	SPARE	24
N 25	SPARE														26
N 27	SPARE														28
N 29	SPARE														30

Total Connected Load: 3870 VA / 4240 (VA/PHASE)

N.E.C. LOAD SUMMARY				ELECTRICAL DATA		PANEL INFORMATION	
Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)	Total Conn. Load:		Location:	
Air Conditioning (AC)		1.00		8 KVA		ELEC CLOSET	
Heating (H)		1.00		34 Amps		Mounting:	Surface Enclosure Type: Nema 1
Kitchen Equipment (K)		1.00		8 KVA		Fed From:	UTILITY
Lighting (L)		1.25		34 Amps		Equipment Ground Bus:	Yes Bus Material: Copper
Receptacles (REC)	8110	1.00	8110	Main Bus Size: 225 Amps		Isolated Ground Bus:	No Neutral Size: 100%
Existing (E)		1.25				PANEL LEGEND (ID)	
Continuous (C)		1.25				ST - Shunt-Trip C.B.; G - GFI C.B.	
Non-Continuous (NC)		1.00				LB - "Lock-On" C.B.	
Refrigeration (REF)		1.00				"C1" - Contactor Designation	
						-Remodels-	
						N - New C.B.; EX - Existing C.B.	
Elec. Load Totals:	8110		8110			PANEL NOTES	

GENERAL REQUIREMENTS FOR ELECTRICAL WORK:

- CONTRACTOR SHALL PROVIDE LABOR, MATERIAL, EQUIPMENT AND SERVICES FOR THE PROPER INSTALLATION AND OPERATION OF THE ELECTRICAL WORK AS INDICATED ON THE DRAWINGS AS SPECIFIED
- LABOR, MATERIAL, EQUIPMENT AND SERVICE OBVIOUSLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE ELECTRICAL SYSTEMS ALTHOUGH NOT SPECIFICALLY MENTIONED OR SHOWN, SHALL BE PROVIDED
- ELECTRICAL WORK SHALL CONFORM WITH THE LATEST ACCEPTED EDITION OF THE INTERNATIONAL ELECTRICAL CODE AND APPLICABLE LAWS, CODES AND REGULATIONS OF MUNICIPAL, COUNTY, STATE, FEDERAL AUTHORITIES, UTILITY COMPANIES, INSURANCE AGENCIES AND OTHER AUTHORITIES HAVING JURISDICTION OF THE WORK
- ELECTRICAL CONTRACTOR SHALL OBTAIN, PAY FOR AND DELIVER PERMITS AND CERTIFICATIONS OF INSPECTIONS AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION DELIVER CERTIFICATES TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE WORK AN ELECTRICAL INSPECTION CERTIFICATE FOR EACH CLASS OF WORK REQUIRING INSPECTION MUST BE SUBMITTED PRIOR TO OR WITH THE FINAL PAYMENT INVOICE
- CONTRACTOR MUST MAKE APPLICATION FOR INSPECTION, COORDINATE SAME, AND PAY THE REQUIRED INSPECTION FEE
- DRAWINGS ARE DIAGRAMMATIC. SMALL SCALE AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED, HOWEVER CERTAIN RACEWAYS, BENDS, FITTINGS, BOXES, SYSTEM COMPONENTS, APPURTENANCES AND RELATED SPECIALTIES ARE NOT SHOWN, BUT SHALL BE PROVIDED TO INSURE A COMPLETE INSTALLATION
- REFER TO DRAWINGS FOR EXACT LOCATIONS OF FIXTURES AND EQUIPMENT. WHERE EQUIPMENT IS NOT DEFINITELY LOCATED, OBTAIN THIS INFORMATION FROM ENGINEER
- NO CONSIDERATION OR ALLOWANCE SHALL BE GRANTED FOR ALLEGED MISUNDERSTANDING OF MATERIALS AND EQUIPMENT TO BE FURNISHED FOR WORK TO BE ACCOMPLISHED
- WORK FURNISHED UNDER THIS CONTRACT SHALL BE WARRANTED AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR OR AS OTHERWISE SPECIFIED, FROM THE DATE OF FINAL
- WHERE CABLE PASSES THROUGH FIRE RATED STRUCTURES PROVIDE FIRE PROOF FITTINGS
- RACEWAYS SHALL BE CONCEALED IN THE CONSTRUCTION EXCEPT AS OTHERWISE SPECIFIED
- WHERE CONDUIT TERMINATES IN A CABINET, BOX OR AUXILIARY GUTTER, THE CONDUCTORS SHALL BE PROTECTED BY AN INSULATING BUSHING. LOCKNUTS SHALL BE PROVIDED BOTH INSIDE AND OUTSIDE THE ENCLOSURE
- A PULL WIRE SHALL BE INSTALLED IN EMPTY RACEWAYS. PULL WIRE SHALL BE 200 POUND TEST NYLON. BOTH ENDS SHALL BE IDENTIFIED BY MEANS OF LABELS OR TAGS, READING "PULL WIRE" AND GIVING THE ORIGIN AND TERMINATION POINTS
- WHERE TELE/DATA OUTLETS ARE SHOWN, PROVIDE A SINGLE GANG BOX WITH BLANK PLATE AND ELECTRICAL METALLIC TUBING UP TO CEILING SPACE
- RACEWAYS SHALL BE SUPPORTED TO COMPLY WITH NEC
- NO "THROUGH-WALL" BOXES SHALL BE PERMITTED. WHERE DRAWINGS INDICATE BOXES BACK-TO-BACK, OR SIMILAR LOCATIONS, SUCH BOXES SHALL BE INSTALLED SEPARATELY, SPACED MINIMUM SIZE INCHES APART HORIZONTALLY AND CONNECTED
- ALL CONDUITS AND FLEXIBLE METAL CONDUIT SHALL CONTAIN A GROUNDING CONDUCTOR CONDUITS ARE NOT TO BE USED AS A GROUNDING CONDUCTOR
- ALL RECEPTACLES, WALL SWITCHES AND OTHER WIRED DEVICES SHALL BE SPECIFICATION GRADE, COLOR AS SELECTED BY OWNER
- ALL FACE PLATES SHALL BE TYPE AND COLOR AS SELECTED BY OWNER
- ALL ELECTRICAL SHALL BE LABELED TO COMPLY WITH OSHA AND ANSI/ASME A13.1-2007 STANDARDS FOR THE IDENTIFICATION OF SYSTEMS. THE MARKINGS SHALL IDENTIFY THE PANEL DESIGNATION, VOLTAGE OF CONTENTS, AND SOURCE. ALL EQUIPMENT SHALL BE IDENTIFIED USING PHENOLIC NAMEPLATES AND LABELED IN ACCORDANCE WITH THE NOMENCLATURE USED ON THE DRAWINGS AND MUST BE COMPATIBLE WITH THE MMS SYSTEM

FIRE ALARM SYSTEM NOTES:

- CONTRACTOR SHALL PROVIDE AND INSTALL COMPONENTS AS CALLED OUT ON PLANS AND RISER DIAGRAMS. THE SYSTEM SHALL INCLUDE NAC POWER EXTENDER PANELS, FIRE ALARM PULL STATIONS, STROBES, COMBINATION HORN AND STROBE UNITS, REMOTE ANNUNCIATOR PANELS, CONDUIT, WIRING AND ALL OTHER EQUIPMENT NECESSARY FOR A COMPLETE AND OPERABLE FIRE ALARM SYSTEM
- INSTALL ALL WIRING IN METAL CONDUIT. RACEWAY SYSTEM SHALL BE INSTALLED CONCEALED. IF NOT PRACTICABLE TO INSTALL CONCEALED CONDUIT, THEN INSTALL EXPOSED. ALL FIRE ALARM SYSTEM POWER LIMITED SIGNAL WIRING SHALL BE INSTALLED IN METAL CONDUIT (EMT, IMC, OR RIGID). ALL FIRE ALARM SYSTEM POWER LIMITED SIGNAL WIRING SHALL BE INSTALLED IN SEPARATE CONDUIT FROM AC POWER WIRING (INCLUDING AC POWER FEEDS TO FIRE ALARM SYSTEM AND BAS DEVICES)
- THE STROBE LOCATION SHALL BE AS REQUIRED PER NFPA 72, SECTION 6.4.4.2. THE STROBES IN CORRIDORS SHALL BE LOCATED NO MORE THAN 15 FEET FROM THE END OF THE CORRIDORS WITH A SEPARATION BETWEEN STROBES AS INDICATED ON DRAWINGS. VERIFY EXACT LOCATIONS OF STROBES AT SITE
- FOR NEW FIRE ALARM SYSTEM COMPONENTS ALL WIRE SIZES, TYPES AND QUANTITIES SHALL BE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS
- SYMBOLS SHOWN ON THE SYMBOLS LIST MAY OR MAY NOT BE USED
- THE FIRE ALARM SYSTEM RISER DIAGRAM SHOWN ON DRAWINGS IS GENERIC AND TYPICAL ONLY TO SHOW DESIGN INTENT AND MAY NOT INDICATE ALL FIRE ALARM DEVICES. THE CONTRACTOR SHALL REFER TO THE FLOOR PLANS FOR THE ACTUAL QUANTITIES AND LOCATIONS FOR ALL FIRE ALARM DEVICES REQUIRED FOR THIS PROJECT. THE MAXIMUM NUMBER OF STROBES AND HORN/STROBE UNITS PER CIRCUIT SHALL BE AS RECOMMENDED BY MANUFACTURER. THE WIRE SIZES AND QUANTITIES SHALL ALSO BE AS RECOMMENDED BY THE MANUFACTURER
- MOUNTING HEIGHTS OF FIRE ALARM DEVICES SHALL COMPLY WITH ADA REQUIREMENTS. THE FIRE ALARM PULL STATIONS SHALL BE MOUNTED MAXIMUM AT 48" AND MINIMUM AT 42" ABOVE FINISHED FLOOR. THE STROBE UNITS AND HORN/STROBE COMBINATION UNITS SHALL BE MOUNTED AT 80" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING WHICH EVER IS LOWER
- THE FLOOR PLANS DO NOT INDICATE THE EXACT LOCATION OF ANY DUCT SMOKE DETECTORS (IF REQUIRED), THE CONTRACTOR SHALL VERIFY AT SITE ALL DUCT LOCATIONS AND INSTALL THE DUCT SMOKE DETECTORS AS PER APPLICABLE CODES
- FURNISH AND INSTALL DEVICES TO THE FIRE ALARM SYSTEM AS COVERED BY THESE SPECIFICATIONS AND DRAWINGS. WIRE AND CONNECT AND LEAVE IN A FIRST-CLASS OPERATING CONDITION. ALL EQUIPMENT SHALL BE APPROVED AND INSTALLED IN ACCORDANCE WITH THE UNDERWRITERS LABORATORIES, THE DEPARTMENT OF LABOR AND INDUSTRY, COMPLY WITH BUILDING AND ELECTRICAL CODES NFPA 72
- FINAL CONNECTION BETWEEN EQUIPMENT AND WIRING DEVICES SHALL BE MADE UNDER DIRECT SUPERVISION OF A REPRESENTATIVE OF THE MANUFACTURER
- CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT AND WIRING FREE FROM INHERENT MECHANICAL AND ELECTRICAL DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE
- IN ADDITION CONTRACTOR SHALL PROVIDE OWNER WITH ALL DOCUMENTATION, INSTRUCTIONS, HARDWARE AND SOFTWARE KEYS, AND ALL ITEMS REQUIRED TO PERMIT OWNER PROGRAMMING OF THE ADDITIONAL SYSTEM COMPONENTS. IF REQUIRED BY OWNER, CONTRACTOR SHALL PROVIDE TRAINING AS REQUIRED TO OWNER SELECTED PERSONNEL ON THE OPERATION AND PROGRAMMING ASPECTS OF THE SYSTEM
- CONTRACTOR SHALL COORDINATE A SYSTEM TEST AS REQUIRED BY LOCAL FIRE MARSHALL CODES AND REQUIREMENTS. TEST SHALL INCLUDE A CONFIRMATION OF SIGNAL RECEIPT AT ALL REQUIRED MONITORING LOCATIONS. PROVIDE OWNER WITH ALL REQUIRED PROOFS OF TESTING.

ROSETREE PARK

MEDIA PENNSYLVANIA



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CIVIL ENGINEERS

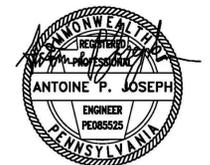
STRUCTURAL ENGINEERS

MEP ENGINEERS

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SEAL:



07-11-2024

Mark	Revisions	Date
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ALL DIMENSIONS AND RELATIONSHIPS MUST BE VERIFIED BY CONTRACTOR. THE ARCHITECT IS TO BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE CONSTRUCTION. DO NOT SCALE FROM DRAWINGS.

PROJECT #	Project Number
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DRAWN BY	JW
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CHECKED BY	JW
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DATE	05/13/24
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BID SET

ELECTRICAL SINGLE LINE, NOTES, PANEL SCHEDULES

DRAWING TITLE

E200