

RIVERSIDE PARK RESTROOM - NEW CONSTRUCTION

812 LABAREE ST. | WATERTOWN, WI 53098

THRIVE ARCHITECTS
 Architect
 259 South Street, Suite A
 WAUKESHA, WI 53186
 p: 833-380-6180

Project Info. — 22005
Riverside Park Restrooms
 New Construction
 600 Labaree St
 Watertown, WI

OCCUPANT LOAD PER TABLE 1004.1.2
 TOTAL OCCUPANT LOAD = 183 OCCUPANTS

OCCUPANCY	SF	FLOOR AREA	CALC. OCC.	ASSIGNED OCC.
UTILITY	1,602 SF	500/GROSS	3	45

EGRESS REQUIREMENTS
 EGRESS WIDTH PER 1005.3

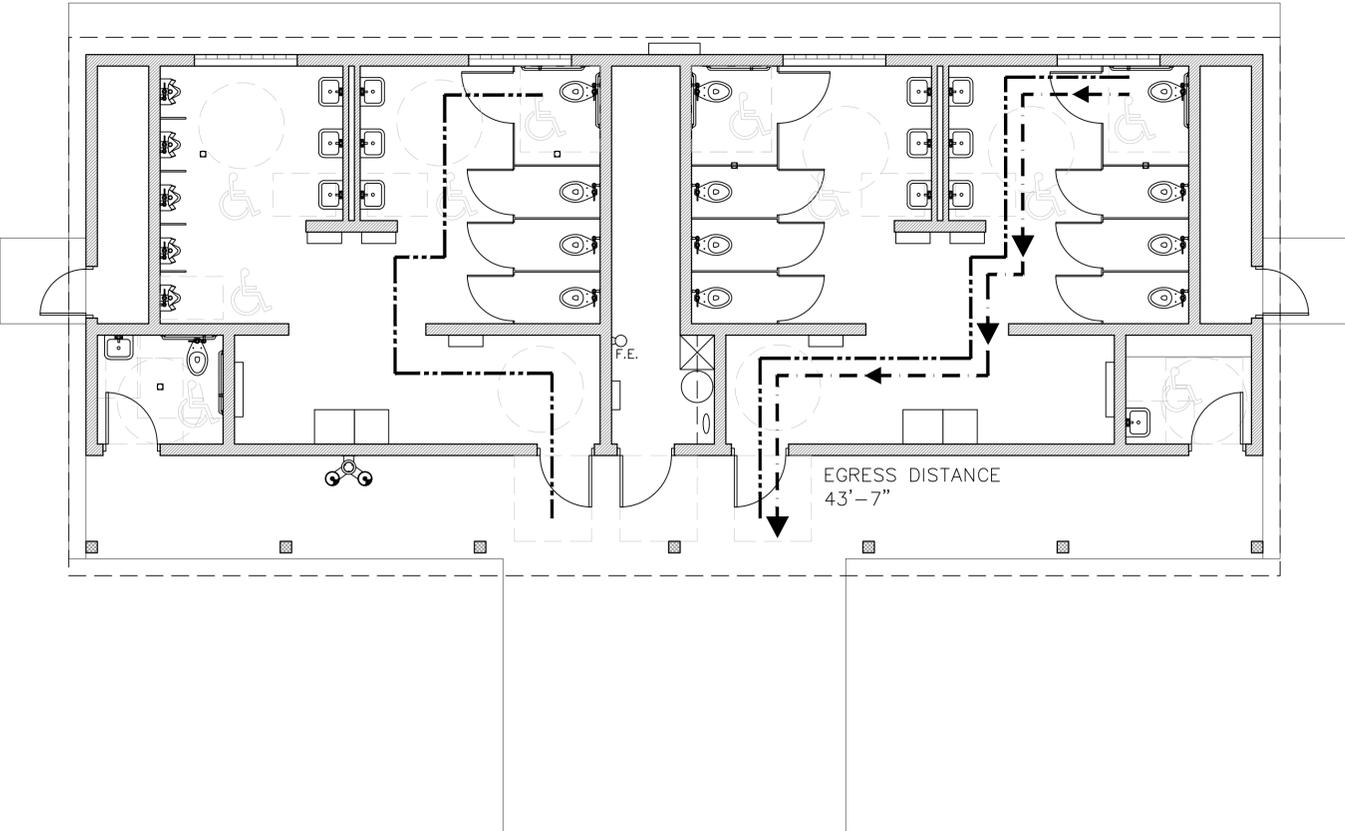
# OF OCCUPANTS	EGRESS WIDTH FACTOR	EGRESS WIDTH REQUIRED	EGRESS WIDTH PROVIDED
45	.2 INCHES PER OCCUPANT	9"	34"

NO. OF EXITS REQUIRED PER SECTION 1006 = 1
 NO. OF EXITS PROVIDED = 1
 MAXIMUM EXIT TRAVEL DISTANCE PER TABLE 1017.2 = 200' (w/out SPRINKLER)

FIRE-RESISTANCE RATING SUMMARY
 REFER TO IBC CHAPTER 6

CONSTRUCTION TYPE V-B	
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS	0
EXTERIOR	0
INTERIOR	0
NONBEARING WALLS	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

----- ACCESSIBLE ROUTE
 ←----- DELINEATES EXIT EGRESS PATH



Sheet Title
CODE SHEET

Drawn by	Checked by
JAJ	DMR

Revisions

No.	Date	Description
	01.23.24	Bid & Permit Set

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Sheet No.
T1.1

GENERAL NOTES

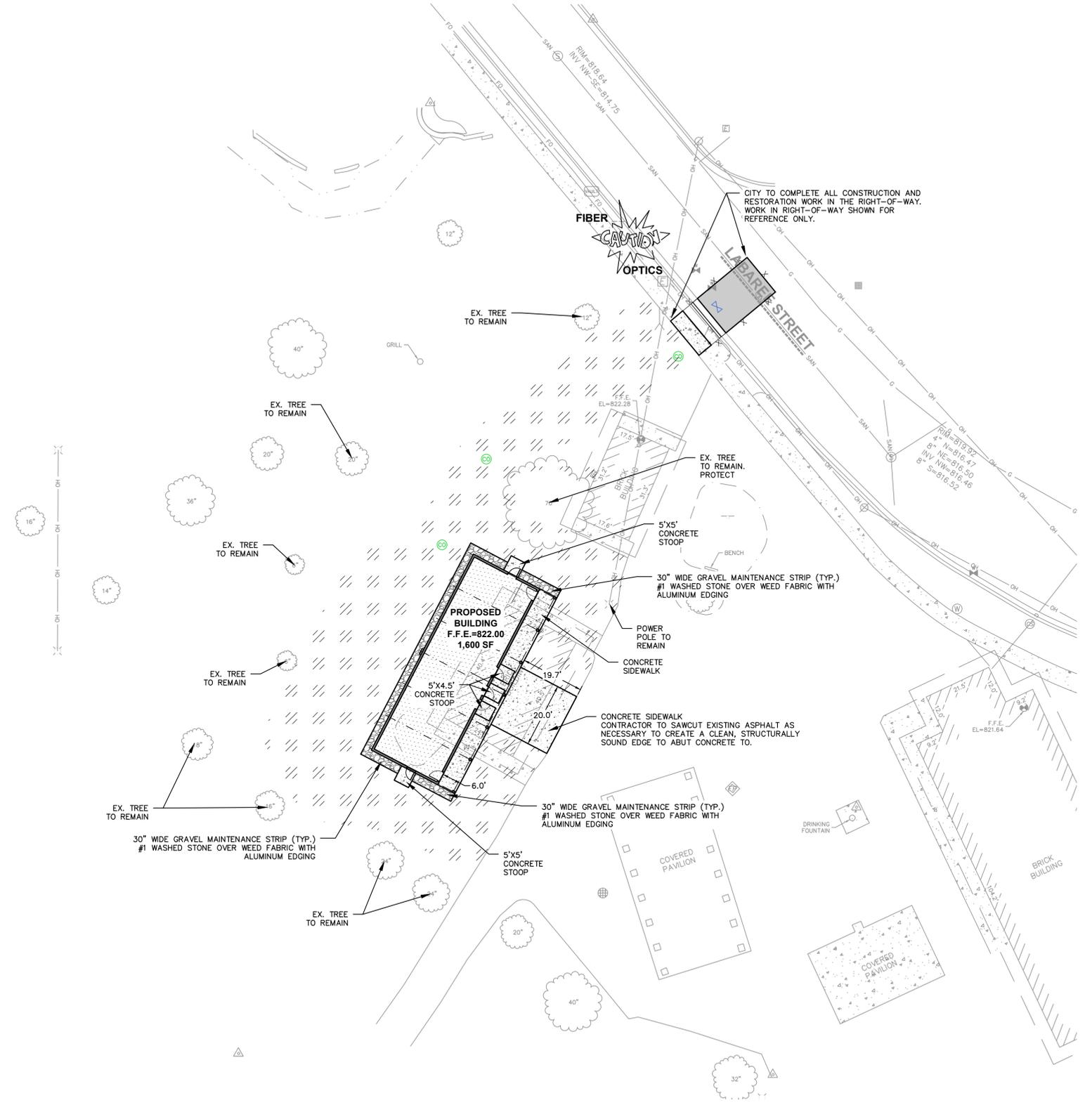
1. WATER AND SANITARY SEWER WERE INSTALLED BY THE CITY AND STUBBED TO THE BACK OF THE BUILDING.
2. ROUGH GRADE IN THE CONTRACT. FINISH GRADE, SODDING, LANDSCAPING, AND EROSION MATTING NOT IN CONTRACT. CITY TO COMPLETE THE WORK.
3. OLD BUILDING ELECTRICAL IS DISCONNECTED.
4. ELECTRICAL CONTRACTOR TO COORDINATE OUTDOOR PANEL, METER, ETC.
5. BUILDING AND CONCRETE SIDEWALK IN CONTRACT.

PAVING NOTES

1. **GENERAL**
 - 1.1. ALL PAVING SHALL CONFORM TO "STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY & STRUCTURE CONSTRUCTION, LATEST EDITION, APPLICABLE CITY OF WATERTOWN ORDINANCES."
 - 1.2. SURFACE PREPARATION - NOTIFY ENGINEER/OWNER OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.
2. **CONCRETE PAVING SPECIFICATIONS**
 - 2.1. CONCRETE PAVING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 415 AND 416 OF THE STATE HIGHWAY SPECIFICATIONS.
 - 2.2. CONTRACTOR SHALL SAWCUT ASPHALT AND REMOVE AS NECESSARY TO CREATE A CLEAN, STRUCTURALLY SOUND EDGE TO ABUT CONCRETE TO.
 - 2.3. CONCRETE PAVEMENT SHALL BE REINFORCED WITH NOVOMESH 950 (OR EQUAL) FIBER REINFORCEMENT AT A RATE OF 5 LBS/CUBIC YARD.
 - 2.4. CURING COMPOUNDS SHALL CONFORM TO SECTION 415 OF THE STATE HIGHWAY SPECIFICATIONS.
 - 2.5. CONTRACTOR SHALL PROVIDE CONTROL JOINTS AND CONSTRUCTION JOINTS OF ONE-QUARTER CONCRETE THICKNESS AT AN EQUAL RATIO OF LENGTH TO WIDTH WHEREVER POSSIBLE WITH A MAXIMUM LENGTH BETWEEN JOINTS OF 8' ON CENTER.
 - 2.6. CONTRACTOR SHALL PROVIDE EXPANSION JOINTS IN SIDEWALKS AT A MAXIMUM 24' ON CENTER.
 - 2.7. EXTERIOR CONCRETE SURFACES SHALL BE BROOM FINISHED.
 - 2.8. ALL CONCRETE SURFACES TO BE SEALED WITH TYPE TK-26UV CONCRETE SEALANT.

SITE INFORMATION BLOCK	
SITE ADDRESS	812 LABAREE ST (ZONING SR-4)
PROPERTY ACREAGE	11.38 ACRES
DISTURBANCE AREA	0.23 ACRES
NUMBER OF BUILDING STORIES	
TOTAL BUILDING SQUARE FOOTAGE	1,600 SF

LEGEND	
	PROPERTY LINE
	EASEMENT LINE
	RIGHT OF WAY LINE
	STANDARD CURB AND GUTTER BY CITY
	LIGHT DUTY ASPHALT PAVEMENT BY CITY
	CONCRETE SIDEWALK 5" CONCRETE 6" CRUSHED AGGREGATE BASE COURSE
	30" WIDE GRAVEL MAINTENANCE STRIP
	SAWCUT PAVEMENT BY CITY
	SANITARY CLEANOUT
	WATER VALVE
	CONTRACTOR TO ROUGH GRADE AREA. CITY TO COMPLETE FINISH GRADE, SEEDING, AND EROSION MATTING.



north
 SCALE IN FEET
 20' 0 20'

Toll Free (800) 242-8511

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 MILWAUKEE REGIONAL OFFICE
 W238 N1610 BUSSE ROAD, SUITE 100
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2024-01-23 Bid & Permit Set

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 New Construction
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 Watertown, WI

Sheet Title
SITE LAYOUT PLAN

Drawn by	Checked by
YT	KCB

Revisions		
No.	Date	Description
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C2.0

GENERAL NOTES

1. ALL WORK IN THE ROW AND/OR PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN AND MUNICIPAL REQUIREMENTS.
2. EXISTING GRADE SPOT ELEVATIONS SHOWN FOR INFORMATIONAL PURPOSES. DURING CONSTRUCTION MATCH EXISTING GRADES AT CONSTRUCTION LIMITS.
3. NO SITE GRADING OUTSIDE OR DOWNSLOPE OF PROPOSED SILT FENCE LOCATION. NO LAND DISTURBANCE BEYOND PROPERTY LINES.
4. JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.

GRADING AND SEEDING NOTES

1. ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY ALL GRADES, MAKE SURE ALL AREAS DRAIN PROPERLY AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR COMPUTATIONS OF ALL GRADING QUANTITIES. WHILE JSD PROFESSIONAL SERVICES, INC. ATTEMPTS TO PROVIDE A COST EFFECTIVE APPROACH TO BALANCE EARTHWORK, GRADING DESIGN IS BASED ON MANY FACTORS, INCLUDING SAFETY, AESTHETICS, AND COMMON ENGINEERING STANDARDS OF CARE. THEREFORE, NO GUARANTEE CAN BE MADE FOR A BALANCED SITE.
3. PARKING LOT AND DRIVEWAY ELEVATIONS ARE PAVEMENT GRADES, NOT TOP OF CURB GRADES, UNLESS OTHERWISE NOTED.
4. ANY WORK WITHIN RIGHT-OF-WAY SHALL BE PROPERLY PERMITTED AND COORDINATED WITH THE APPROPRIATE OFFICIALS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. ALL GRADING WITHIN RIGHT-OF-WAY IS SUBJECT TO APPROVAL BY SAID OFFICIALS.
5. CONTRACTOR SHALL PROVIDE NOTICE TO THE MUNICIPALITY IN ADVANCE OF ANY SOIL DISTURBING ACTIVITIES, IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS.

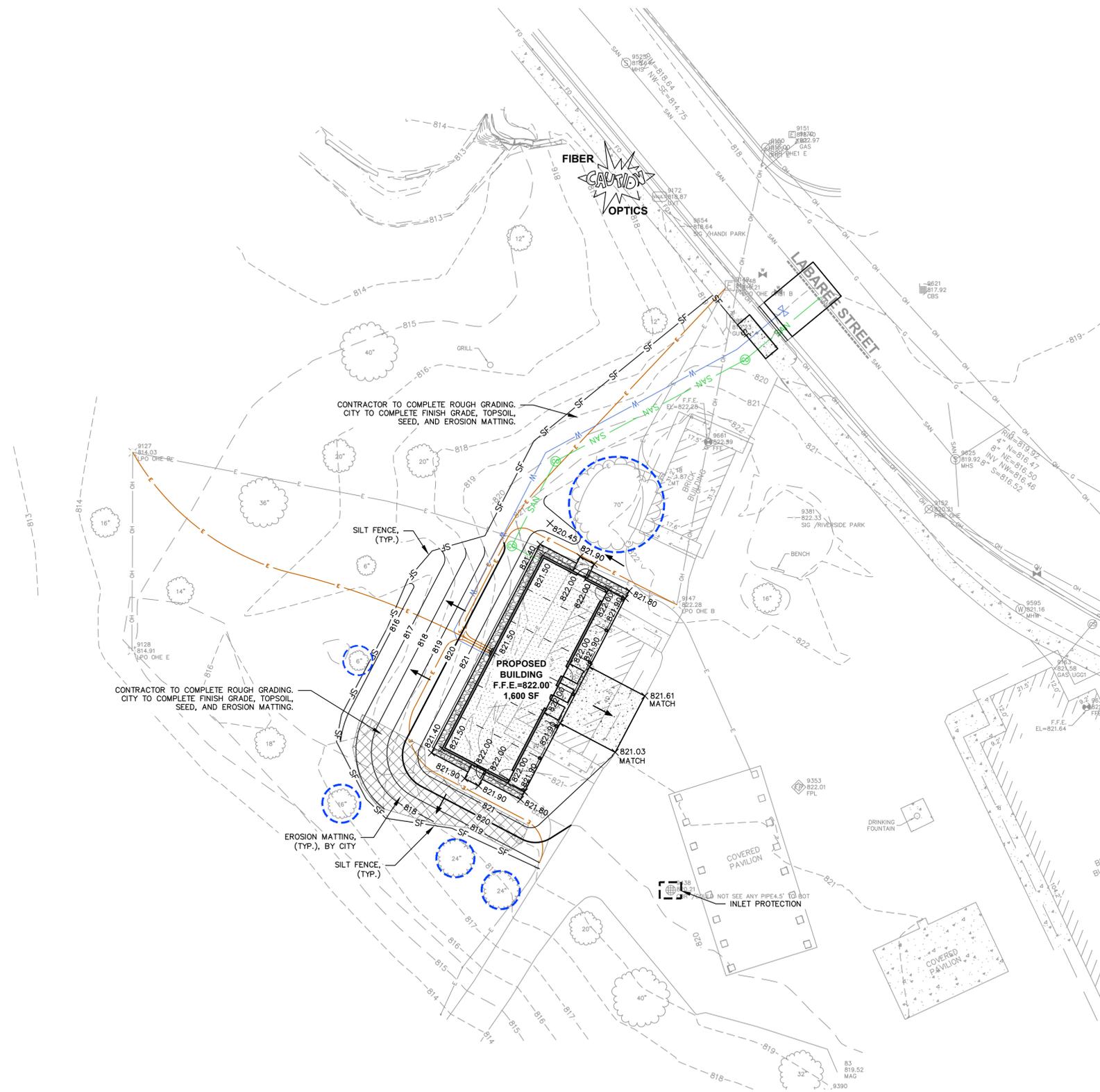
THE FOLLOWING NOTES APPLY TO RESTORATION WORK COMPLETED BY THE CITY, N.I.C.

6. ALL DISTURBED AREAS SHALL BE SODDED AND/OR SEEDDED AND MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES. SOD/SEED MIX TO BE IN ACCORDANCE WITH LANDSCAPE PLAN.
7. CITY SHALL WATER ALL NEWLY SODDED/SEEDDED AREAS DURING THE SUMMER MONTHS WHENEVER THERE IS A 7 DAY LAPSE WITH NO SIGNIFICANT RAINFALL.
8. CITY TO DEEP TILL ALL COMPACTED PVIOUS SURFACES PRIOR TO SODDING AND/OR SEEDING AND MULCHING.
9. ALL SLOPES 20% OR GREATER SHALL BE TEMPORARY SEEDDED, MULCHED, OR OTHER MEANS OF COVER PLACED ON THEM WITHIN 2 WEEKS OF DISTURBANCE.
10. ALL EXPOSED SOIL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 30 DAYS AND REQUIRE VEGETATIVE COVER FOR LESS THAN 1 YEAR, REQUIRE TEMPORARY SEEDING FOR EROSION CONTROL. SEEDING FOR EROSION CONTROL SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059 AND CITY OF WATERTOWN ORDINANCE.

LEGEND

- PROPERTY LINE
- EASEMENT LINE
- RIGHT OF WAY LINE
- STANDARD CURB AND GUTTER
- SILT FENCE
- PROPOSED 1 FOOT CONTOUR
- PROPOSED 5 FOOT CONTOUR
- EXISTING 1 FOOT CONTOUR
- EXISTING 5 FOOT CONTOUR
- PROTECT EXISTING TREES
- EROSION MATTING, BY CITY
- SANITARY SERVICE
- SANITARY CLEANOUT
- WATER SERVICE
- WATER VALVE
- INLET PROTECTION - SILT LOGS OR STAKED STRAW BALES
- DRAINAGE ARROW

SEE UTILITY SHEET FOR ADDITIONAL INFORMATION



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GRADING AND EROSION CONTROL PLAN

Drawn by	Checked by
YT	KCB

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UTILITY PLAN AND NOTES: FOR REFERENCE ONLY - SCOPE NOT IN CONTRACT. UTILITIES BY CITY, CONTRACTOR TO COORDINATE WITH CITY AND CITY'S CONTRACTORS.

- ALL EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATIONS OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTRACTOR/OWNER SHALL CALL "DIGGER'S HOTLINE" PRIOR TO ANY CONSTRUCTION.
- PRIOR TO CONSTRUCTION, THE PRIME CONTRACTOR IS RESPONSIBLE FOR: EXAMINING ALL SITE CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
 - OBTAINING ALL PERMITS INCLUDING PERMIT COSTS, TAP FEES, METER DEPOSITS, BONDS, AND ALL OTHER FEES REQUIRED FOR PROPOSED WORK TO OBTAIN OCCUPANCY.
 - VERIFYING ALL ELEVATIONS, LOCATIONS AND SIZES OF SANITARY, WATER AND STORM LATERALS AND CHECK ALL UTILITY CROSSINGS FOR CONFLICTS. NOTIFY ENGINEER OF ANY DISCREPANCY. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS RESOLVED.
 - NOTIFYING ALL UTILITIES PRIOR TO INSTALLATION OF ANY UNDERGROUND IMPROVEMENTS.
 - NOTIFYING THE DESIGN ENGINEER AND MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION OBSERVATION.
 - COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.
- ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN - AND ALL STATE AND LOCAL CODES AND SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHICH SPECIFICATIONS AND CODES APPLY, AND TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE LOCAL AND STATE AUTHORITIES.
- SPECIFICATIONS SHALL COMPLY WITH THE CITY OF WATERTOWN SPECIAL PROVISIONS.
- LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY DURING THE CONSTRUCTION OF IMPROVEMENTS.
- CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVER NIGHT AS REQUIRED IN CONSTRUCTION SITES WHERE THE POTENTIAL FOR PEDESTRIAN INJURY EXISTS.
- CONTRACTOR SHALL ADJUST AND/OR RECONSTRUCT ALL UTILITY COVERS (SUCH AS MANHOLE COVERS, VALVE BOX COVERS, ETC.) TO MATCH THE FINISHED GRADES OF THE AREAS EFFECTED BY THE CONSTRUCTION.
- THE PRIME CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.
- ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER OR OTHER UTILITIES WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS-BUILT CONDITIONS OF THE DESIGNATED IMPROVEMENTS IN ORDER THAT THE APPROPRIATE DRAWINGS CAN BE PREPARED. IF REQUIRED, ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES.
- WATER MAIN SPECIFICATIONS -

PIPE - POLYVINYL CHLORIDE (PVC) PIPE SHALL MEET THE REQUIREMENTS OF AWWA STANDARD C-900, CLASS 150, DR-18, WITH CAST IRON O.D. AND INTEGRAL ELASTOMERIC BELL AND SPIGOT JOINTS. NON-METALLIC WATER MAINS SHALL BE INSTALLED WITH BLUE INSULATION TRACER WIRE AND CONFORM WITH SPS 382.30(11)(h).

VALVES AND VALVE BOXES - GATE VALVES SHALL BE AWWA GATE VALVES MEETING THE REQUIREMENTS OF AWWA C-500 AND CHAPTER 8.27.0 OF THE "STANDARD SPECIFICATIONS". GATE VALVES AND VALVE BOXES SHALL CONFORM TO LOCAL PLUMBING ORDINANCES.

BEDDING AND COVER MATERIAL - PIPE BEDDING AND COVER MATERIAL SHALL BE SAND, CRUSHED STONE CHIPS OR CRUSHED STONE SCREENINGS CONFORMING TO CHAPTER 8.43.2 OF THE "STANDARD SPECIFICATIONS".

BACKFILL: PRIVATE SERVICE - BACKFILL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH CHAPTER 2.6.0 OF THE "STANDARD SPECIFICATIONS". GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.43.5 OF THE "STANDARD SPECIFICATIONS".

BACKFILL AND BEDDING: PUBLIC R.O.W - ALL EXCAVATION IN THE PUBLIC STREET RIGHT-OF-WAY SHALL BE BACKFILLED WITH SLURRY IN ACCORDANCE WITH LOCAL REGULATIONS.
- SANITARY SEWER SPECIFICATIONS -

PIPE - SANITARY SEWER PIPE MATERIAL SHALL BE POLYVINYL CHLORIDE (PVC) MEETING REQUIREMENTS OF ASTM D 3034, SDR-35, WITH INTEGRAL BELL TYPE FLEXIBLE ELASTOMERIC JOINTS, MEETING THE REQUIREMENTS OF ASTM D-3212.

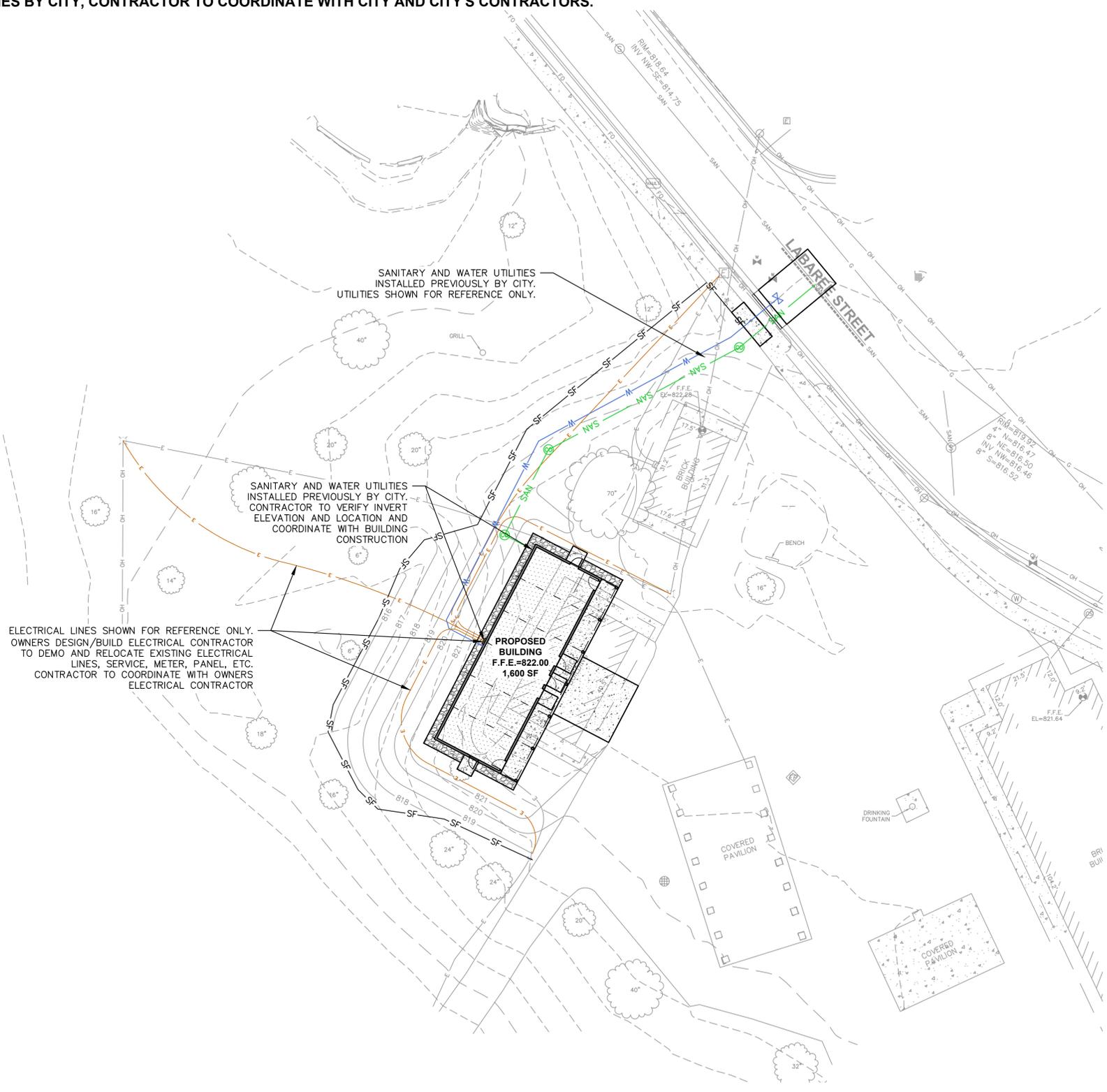
BEDDING AND COVER MATERIAL - BEDDING AND COVER MATERIAL SHALL CONFORM TO THE APPROPRIATE SECTIONS OF THE "STANDARD SPECIFICATION" WITH THE FOLLOWING MODIFICATION: "COVER MATERIAL SHALL BE THE SAME AS USED FOR BEDDING AND SHALL CONFORM TO SECTION 8.43.2 (A). BEDDING AND COVER MATERIAL SHALL BE PLACED IN A MINIMUM OF THREE SEPARATE LIFTS, OR AS REQUIRED TO INSURE ADEQUATE COMPACTING OF THESE MATERIALS, WITH ONE LIFT OF BEDDING MATERIAL ENDING AT OR NEAR THE SPRINGLINE OF THE PIPE. THE CONTRACTOR SHALL TAKE CARE TO COMPLETELY WORK BEDDING MATERIAL UNDER THE HAUNCH OF THE PIPE TO PROVIDE ADEQUATE SIDE SUPPORT."

BACKFILL: PRIVATE SERVICE - BACKFILL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE CHAPTER 2.6.0 OF THE "STANDARD SPECIFICATIONS." GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.43.5 OF THE "STANDARD SPECIFICATIONS."

BACKFILL AND BEDDING: PUBLIC R.O.W - ALL EXCAVATION IN THE PUBLIC STREET RIGHT-OF-WAY SHALL BE BACKFILLED WITH SLURRY IN ACCORDANCE WITH LOCAL REGULATIONS.
- WATERMAIN AND SANITARY SEWER SHALL BE INSULATED WHEREVER THE DEPTH OF COVER IS LESS THAN 6 FEET. INSULATION AND INSTALLATION OF INSULATION SHALL BE CONFORMING WITH CHAPTER 4.17.0 "INSULATION" OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN 6TH EDITION UPDATED WITH ITS LATEST ADDENDUM (TYP.).

LEGEND

---	PROPERTY LINE
- - - - -	EASEMENT LINE
---	RIGHT OF WAY LINE
====	STANDARD CURB AND GUTTER
-SF- -SF-	SILT FENCE
-SAN-	SANITARY SERVICE
-C-	SANITARY CLEANOUT
-W-	WATER SERVICE
-V-	WATER VALVE



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Sheet Title —
UTILITY PLAN

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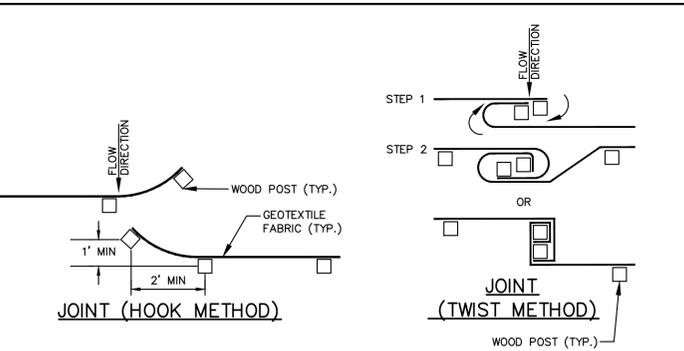
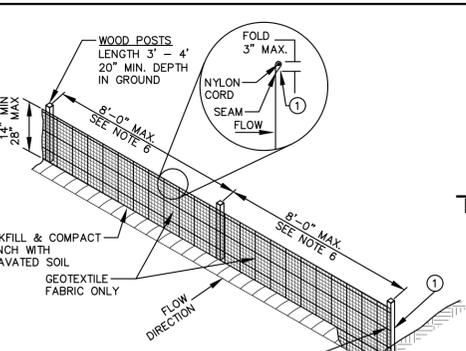
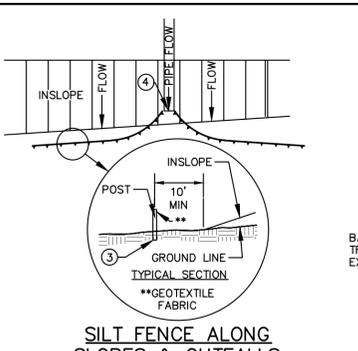
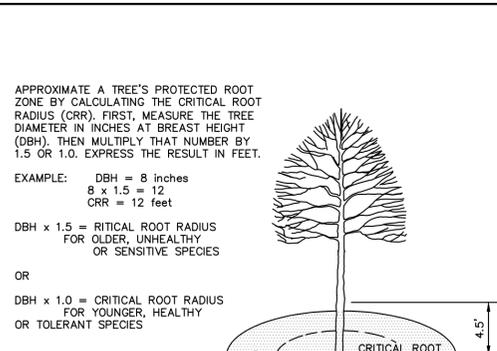
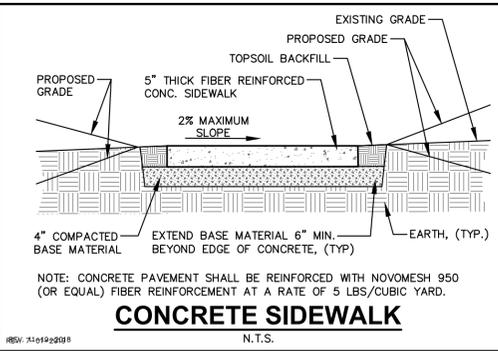
Revisions

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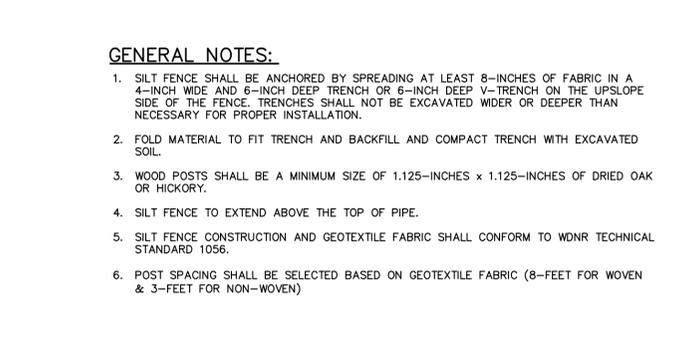
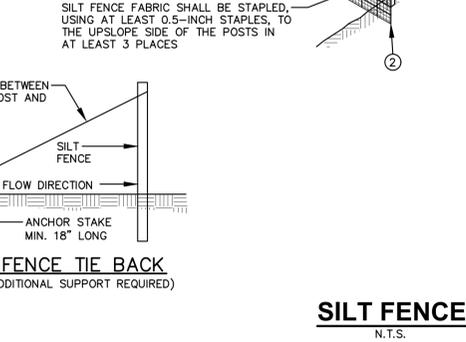
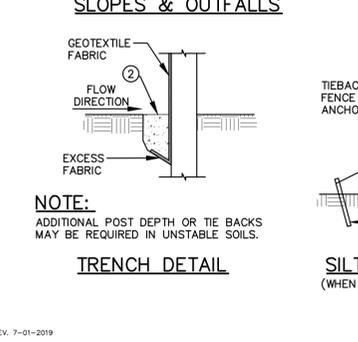
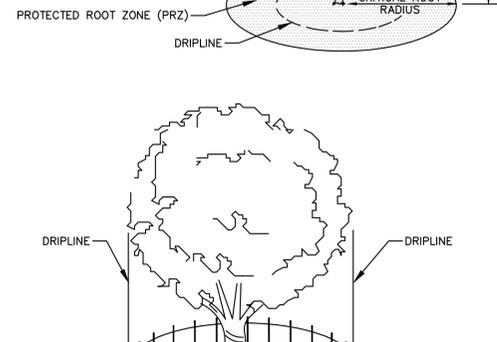
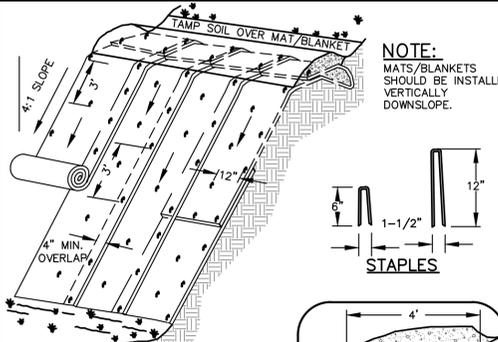
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2024-01-23 Bid & Permit Set



- GENERAL NOTES:**
- SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8-INCHES OF FABRIC IN A 4-INCH WIDE AND 6-INCH DEEP TRENCH OR 6-INCH DEEP V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. TRENCHES SHALL NOT BE EXCAVATED WIDER OR DEEPER THAN NECESSARY FOR PROPER INSTALLATION.
 - FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
 - WOOD POSTS SHALL BE A MINIMUM SIZE OF 1.125-INCHES x 1.125-INCHES OF DRIED OAK OR HICKORY.
 - SILT FENCE TO EXTEND ABOVE THE TOP OF PIPE.
 - SILT FENCE CONSTRUCTION AND GEOTEXTILE FABRIC SHALL CONFORM TO WDNR TECHNICAL STANDARD 1056.
 - POST SPACING SHALL BE SELECTED BASED ON GEOTEXTILE FABRIC (8- FEET FOR WOVEN & 3- FEET FOR NON-WOVEN)

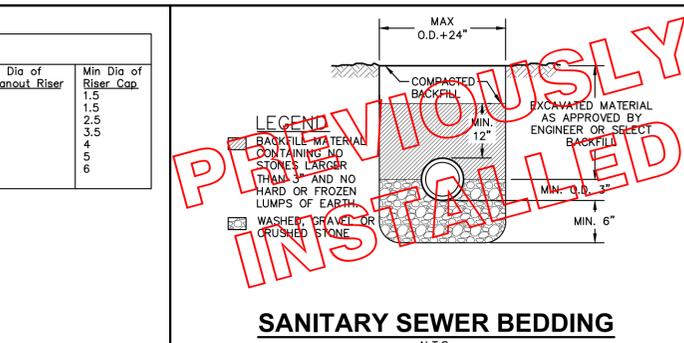
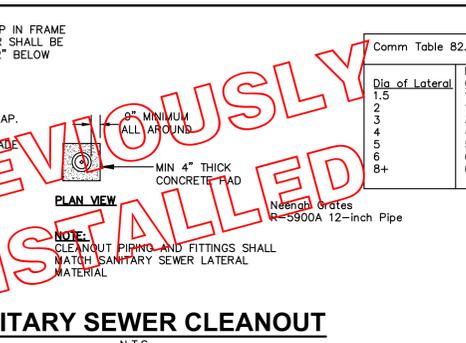


- GENERAL NOTES:**
- EROSION MAT CONSTRUCTION SHALL BE IN ACCORDANCE WITH WISCONSIN DNR TECHNICAL STANDARD 1052 "NON-CHANNEL EROSION MAT".
 - ONLY WisDOT EROSION CONTROL PRODUCT ACCEPTABILITY LIST (PAL) APPROVED MATS SHALL BE ALLOWED. REFER TO EROSION CONTROL PLAN FOR EXACT MAT CLASSIFICATION.
 - APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
 - LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
 - ONLY WisDOT EROSION CONTROL PRODUCT ACCEPTABILITY LIST (PAL) APPROVED MATS SHALL BE ALLOWED. REFER TO EROSION CONTROL PLAN FOR EXACT MAT CLASSIFICATION.

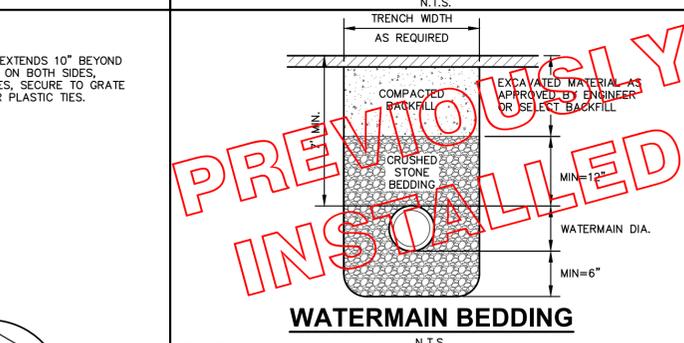
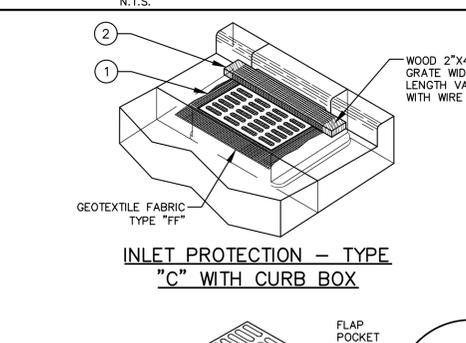
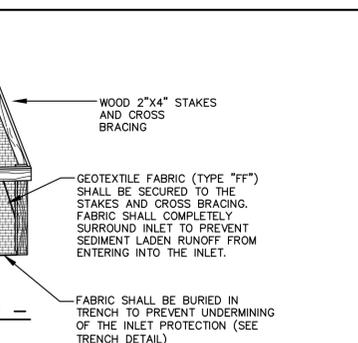
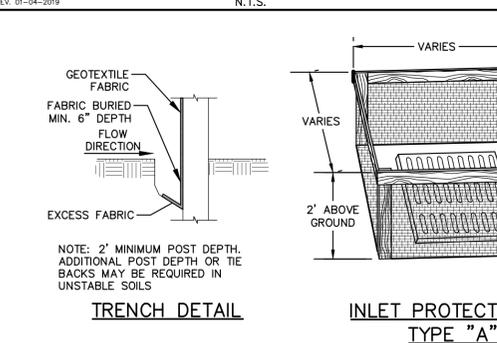
- GENERAL NOTES:**
- CONTRACTOR SHALL INSTALL TREE PROTECTION FENCING IN THE AREA SURROUNDING THE TREE WITHIN THE CRITICAL ROOT RADIUS
 - NO EXCAVATION IS PERMITTED WITHIN THE CRITICAL ROOT RADIUS
 - IF EXCAVATION WITHIN THE CRITICAL ROOT RADIUS OF ANY TREE IS NECESSARY, CONTRACTOR SHALL CONTACT CITY FORESTER PRIOR TO EXCAVATION TO ASSESS THE IMPACT TO THE TREE AND ROOT SYSTEM.

Comm Table 82.35

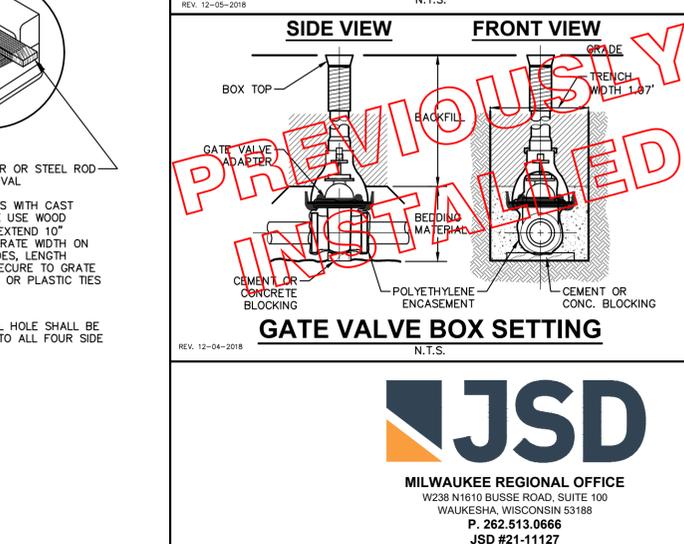
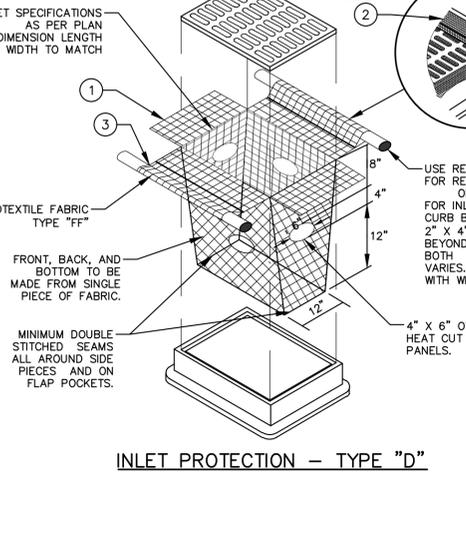
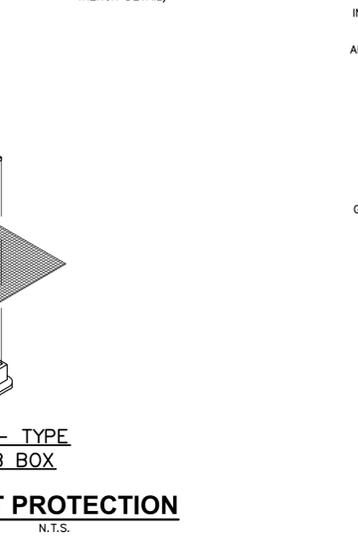
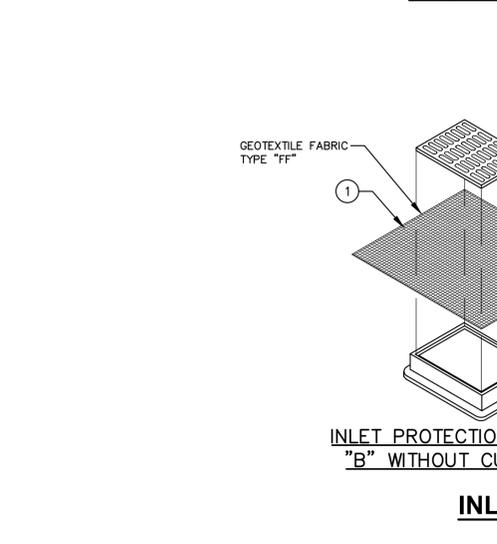
Dia of Lateral	Min Dia of Cleanout Riser	Min Dia of Riser Cap
1.5	1.5	1.5
2	1.5	1.5
3	3	2.5
4	4	3.5
5	5	4
6	6	4
8+	6	6



- GENERAL NOTES:**
- FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER OF FACILITATE MAINTENANCE OR REMOVAL.
 - FOR INLET PROTECTION, TYPE "C" (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
 - FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT A WOOD 2X4



- INSTALLATION NOTES:**
- TYPE "B" & "C"
- TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3 INCHES OF THE GRATE.
- THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHODS TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.
- INSTALLATION NOTES:**
- TYPE "D"
- DO NOT INSTALL INLET PROTECTION TYPE "D" IN INLETS SHALLOWER THAN 30 INCHES, MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
- TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3 INCHES OF THE GRATE.
- THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3 INCHES. WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3 INCHES CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4 INCHES FROM THE BOTTOM OF THE BAG.



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Project Info. — 22005
Riverside Park Restrooms
New Construction
600 Labaree St
Watertown, WI

Sheet Title

DETAILS

Drawn by: YT
Checked by: KCB

Revisions

No.	Date	Description
1	01.23.24	Bid & Permit Set

Sheet No. **C5.0**

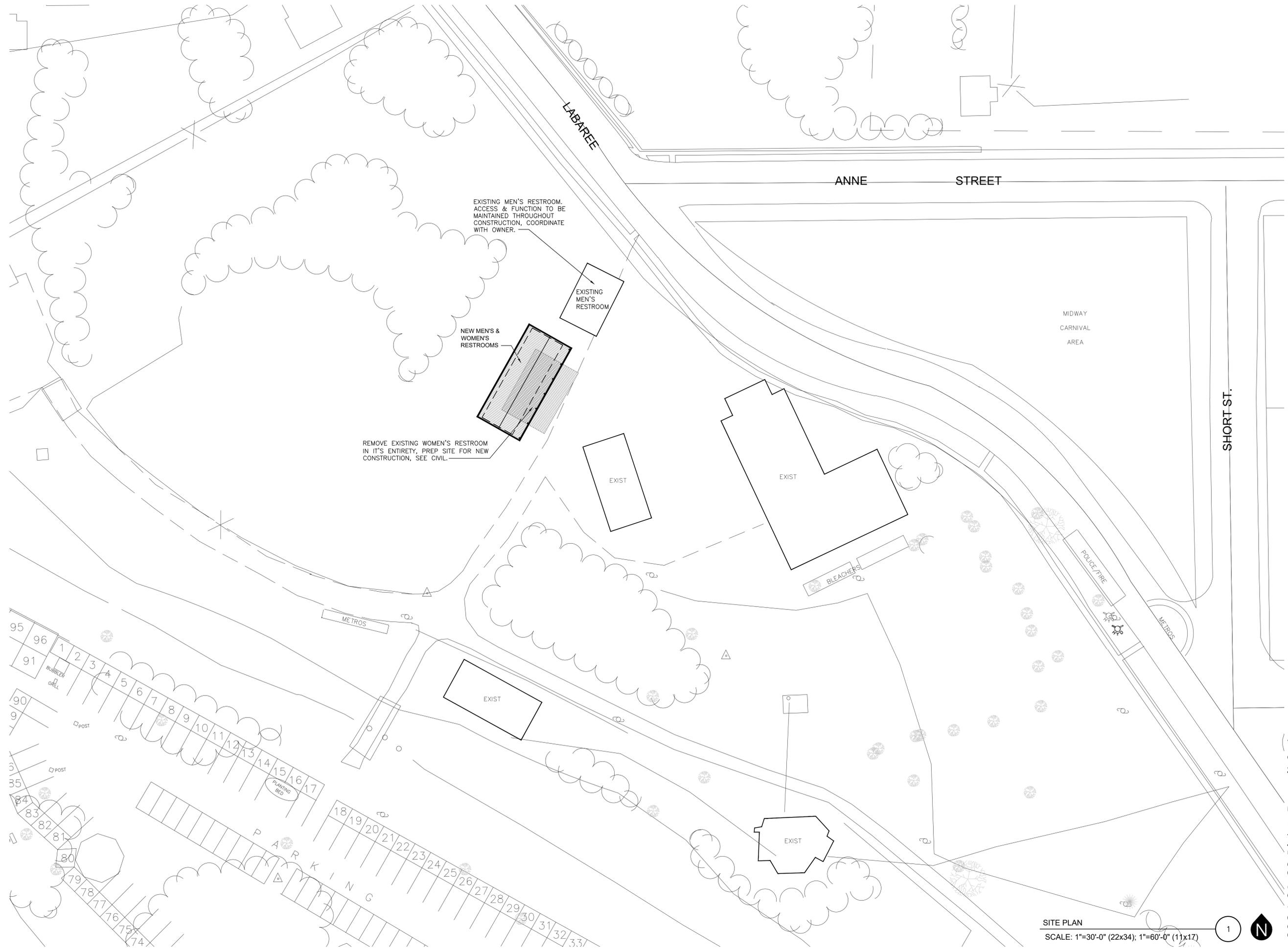
2024-01-23 Bid & Permit Set

Sheet Title
SITE PLAN

Drawn by	Checked by
JAJ	DMR

Revisions

No.	Date	Description
	01.23.24	Bid & Permit Set

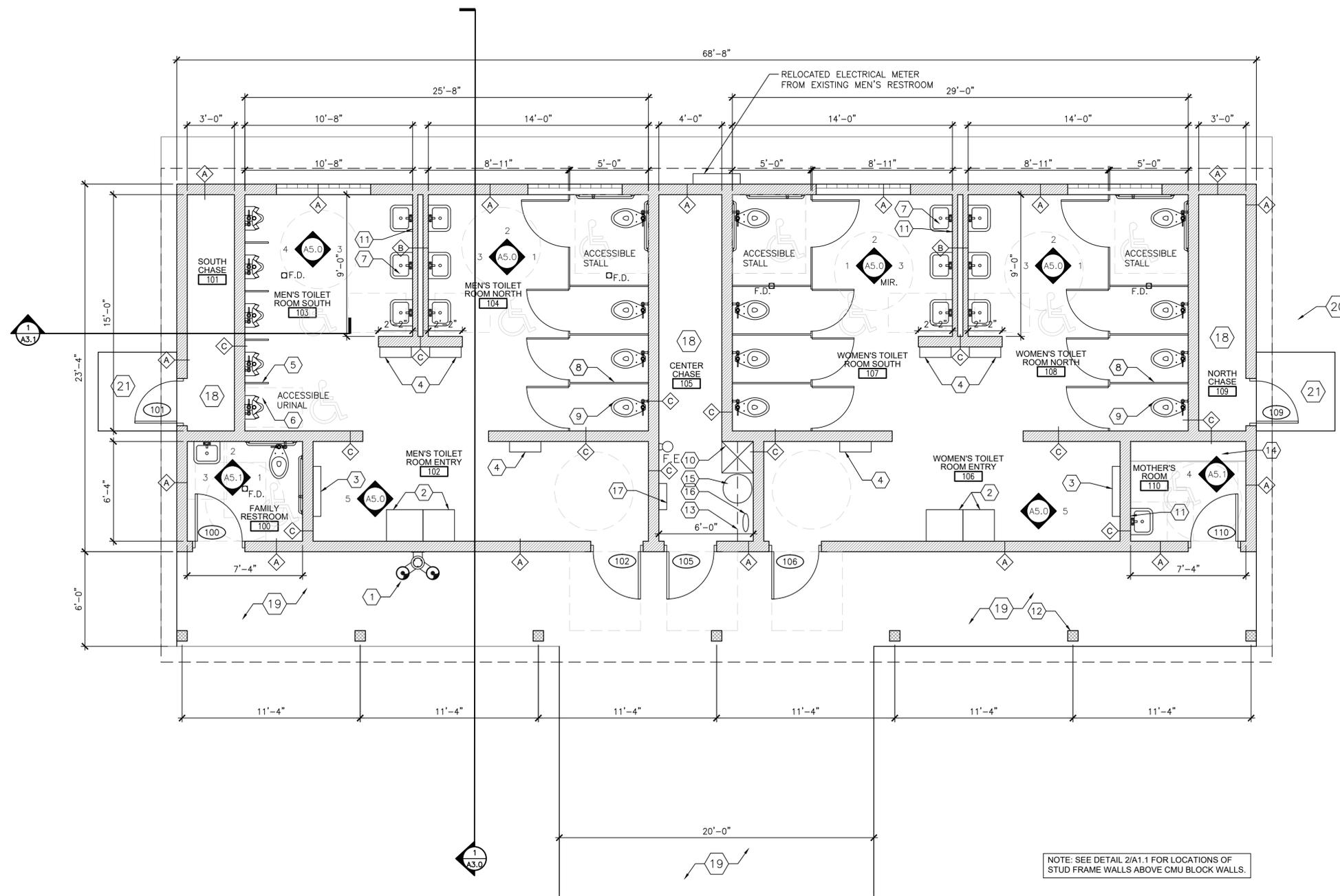


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Revisions		
No.	Date	Description
	01.23.24	Bid & Permit Set

PLAN/EQUIP. KEY

- | | | |
|------------------------------------|---------------------------|-----------------------------|
| 1 DRINKING FOUNTAIN, BOTTLE FILLER | 9 TOILET PARTITION | 17 ELECTRICAL PANEL |
| 2 TRASH RECEPTACLE | 10 JANITOR'S SINK | 18 PLUMBING CHASE |
| 3 CHANGING STATION | 11 MIRROR | 19 CONCRETE SIDEWALK |
| 4 HAND DRYER | 12 COLUMN, SEE STRUCTURAL | 20 GRAVEL MAINTENANCE STRIP |
| 5 URINAL | 13 SHELVING, BY OWNER | 21 5X5 STOOP |
| 6 URINAL PARTITION | 14 BENCH SEAT | |
| 7 LAVATORY | 15 WATER HEATER | |
| 8 TOILET | 16 WATER METER | |



NOTE: SEE DETAIL 2/A1.1 FOR LOCATIONS OF STUD FRAME WALLS ABOVE CMU BLOCK WALLS.

FLOOR PLAN
SCALE: 1/4"=1'-0" (22x34); 1/8"=1'-0" (11x17)



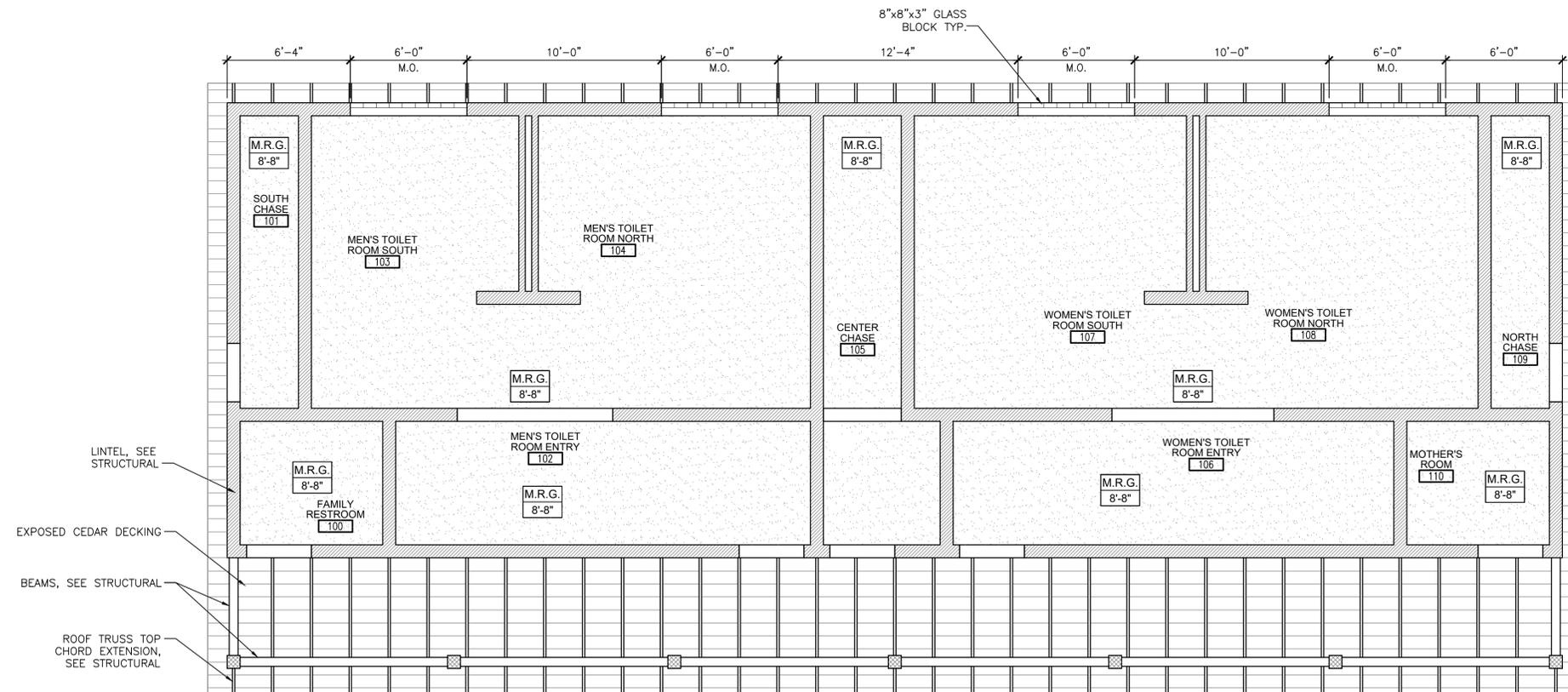
2024-01-23 Bid & Permit Set

REFLECTED CEILING
PLAN

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JAJ	DMR

Revisions		
No.	Date	Description
	01.23.24	Bid & Permit Set

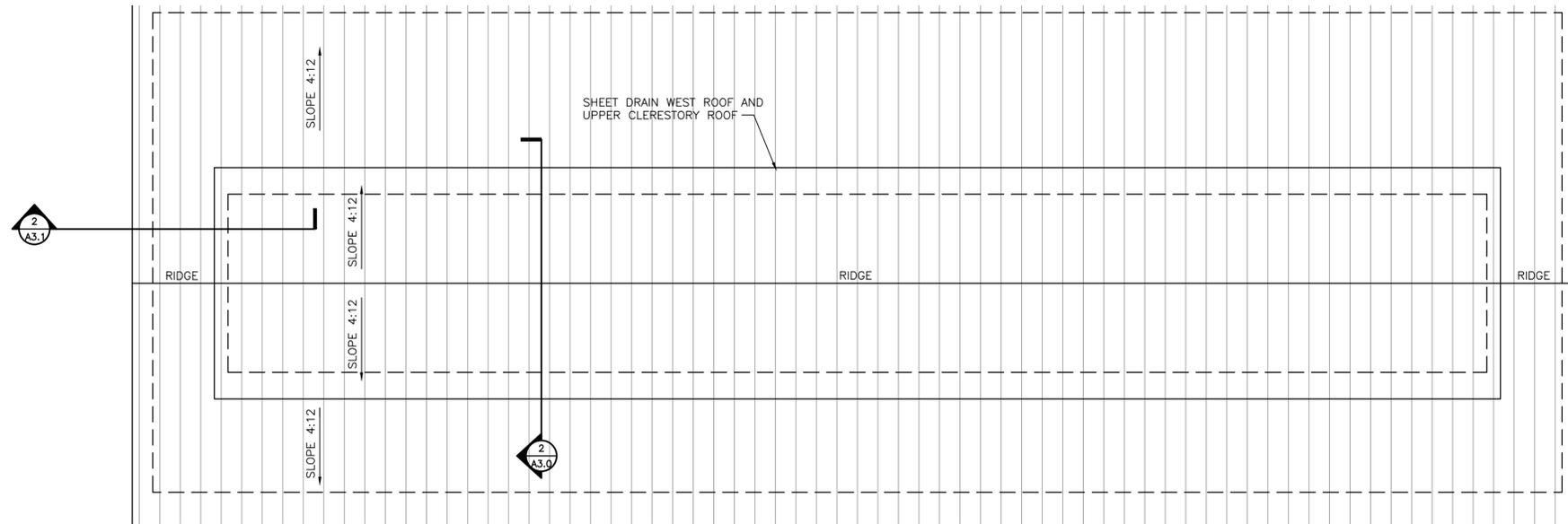
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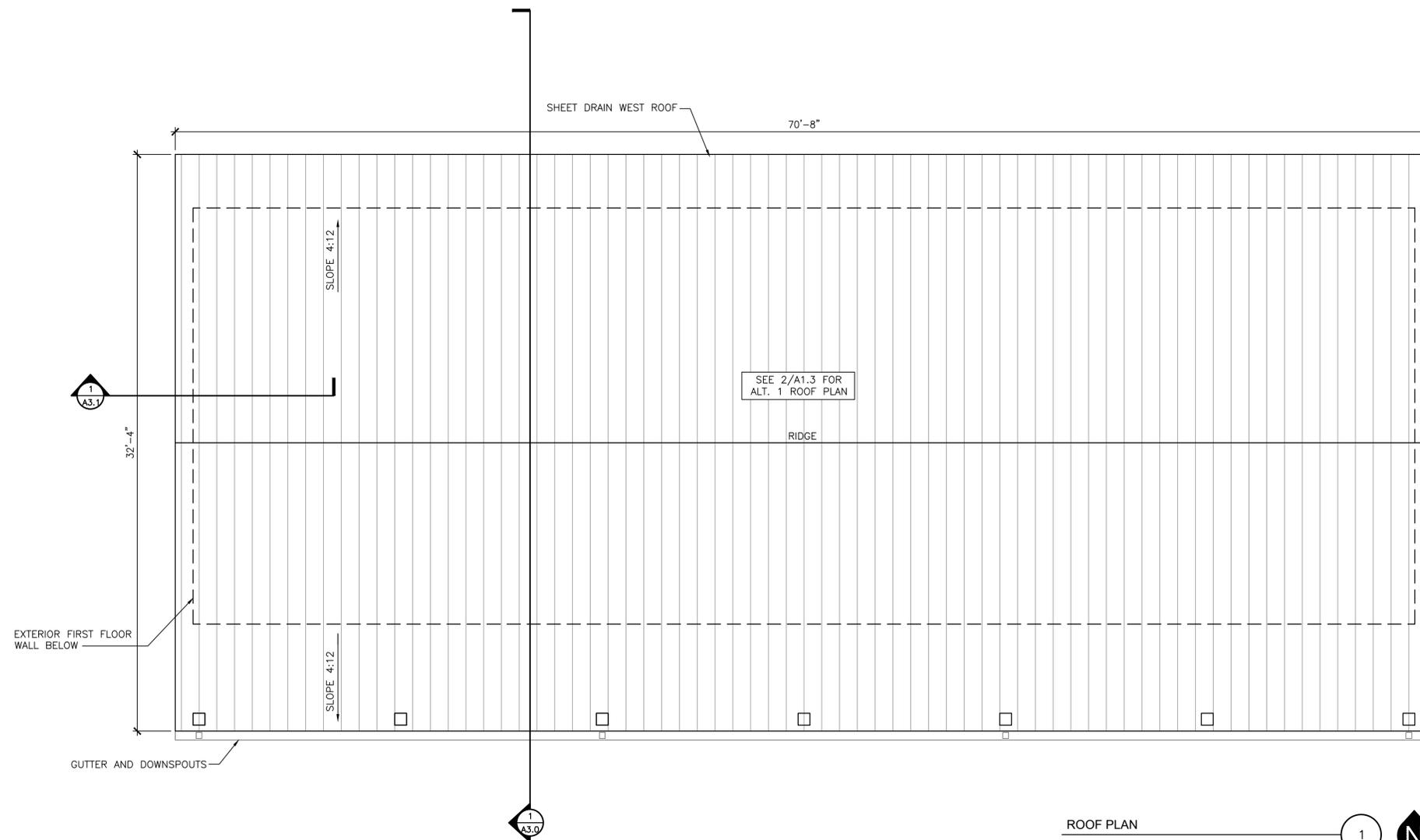
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ALTERNATE 1 ROOF PLAN
SCALE: 1/4"=1'-0" (22x34); 1/8"=1'-0" (11x17)



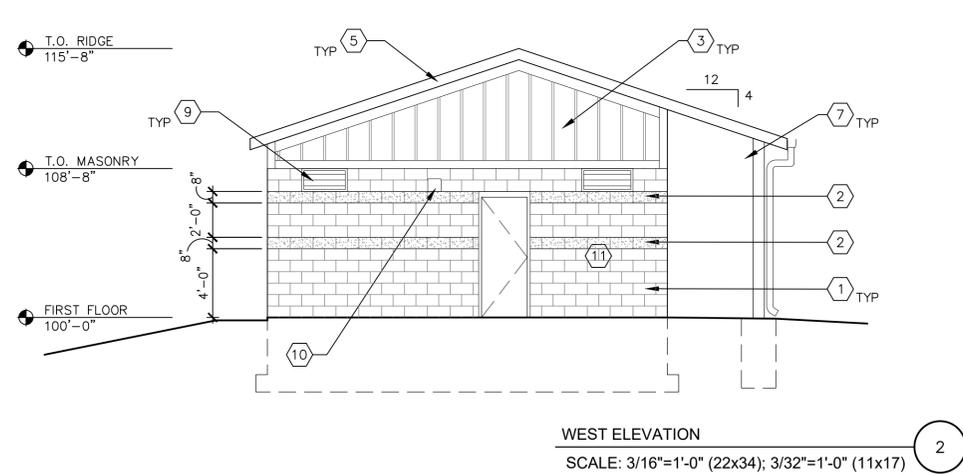
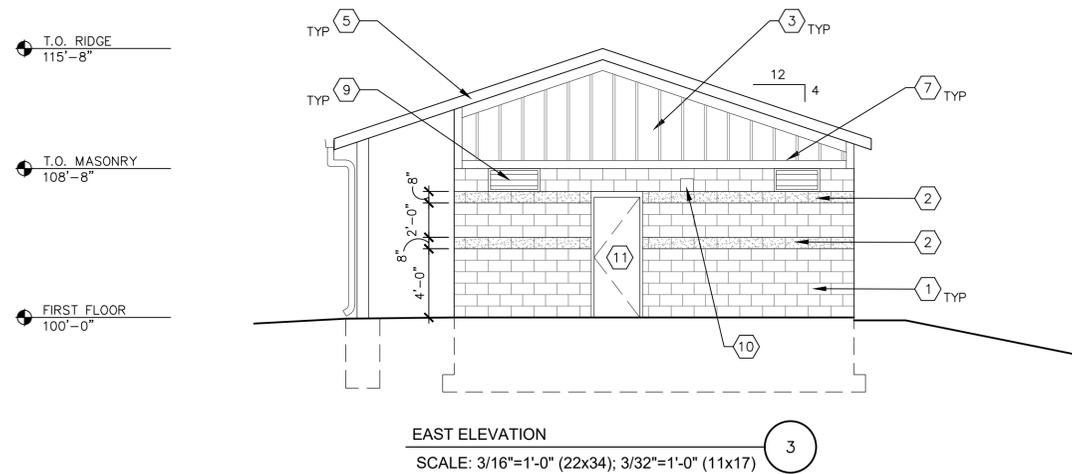
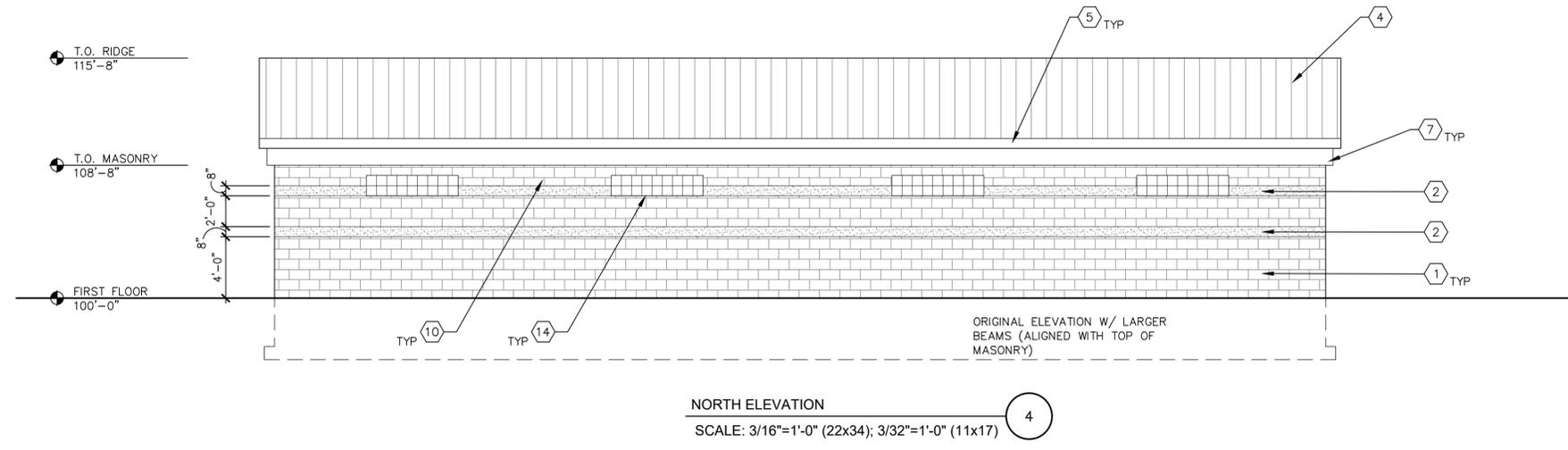
ROOF PLAN
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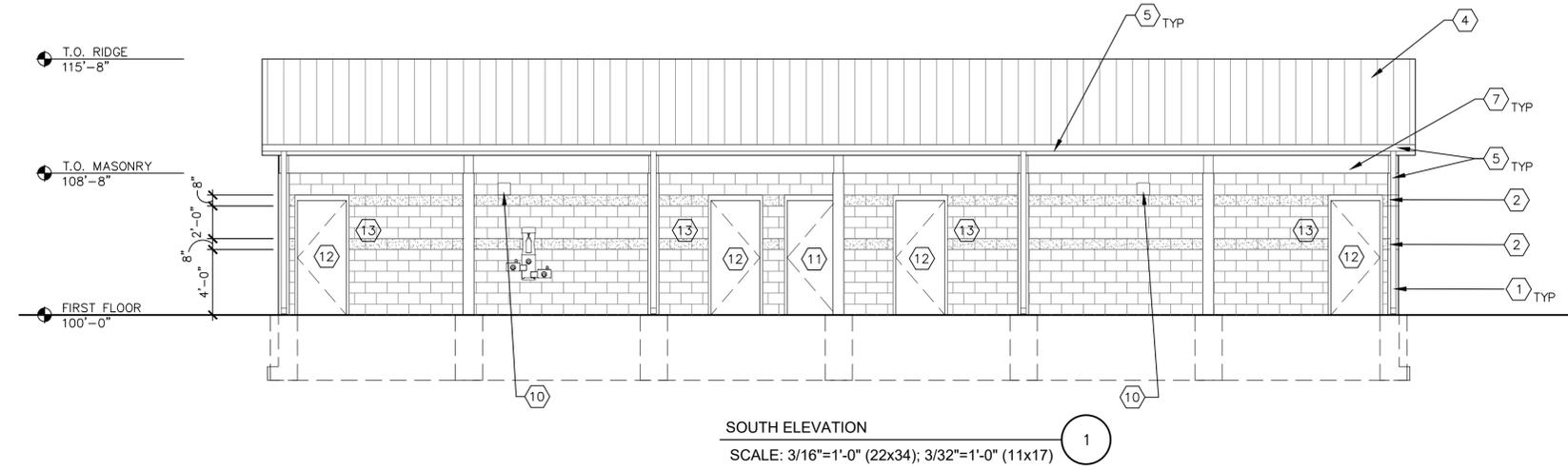
2024-01-23 Bid & Permit Set

KEY NOTES

- ① CMU SPLIT FACE BLOCK (FIELD)
COLOR: NATURAL, MFG: COUNTY MATERIALS OR EQUAL.
- ② CMU SMOOTH FACE BLOCK (ACCENT STRIPE)
COLOR: STEEL GREY, MFG: COUNTY MATERIALS OR EQUAL.
- ③ BOARD & BATTEN LP SIDING
COLOR: T.B.D.
- ④ BASE BID: STANDING SEAM ROOF
COLOR: CHARCOAL, MFG: ATAS, OR EQUAL.
ALTERNATE BID: ASPHALT SHINGLES
COLOR: ESTATE GREY; MFG: OWENS CORNING DURATION OR EQUAL.
- ⑤ PREFINISHED ALUMINUM FASCIA, GUTTERS AND DOWNSPOUTS.
COLOR: CHARCOAL GREY, MFG: ATAS, OR EQUAL.
- ⑥ WINDOW, FROSTED GLASS, 3M SECURITY FILM APPLIED, COMPOSITE TRIM, TO MATCH BOARD & BATTEN SIDING
- ⑦ CEDAR CLAD STRUCTURE
- ⑧ 12"x12" PREFINISHED VENT LOUVER, WITH INTERIOR MESH BUG SCREEN
- ⑨ EXHAUST / INTAKE LOUVER, COORDINATE WITH MECHANICALS; COLOR TO MATCH FIELD CMU.
- ⑩ WALL MOUNTED LIGHT FIXTURE, COORDINATE WITH ELECTRICAL.
- ⑪ HOLLOW METAL DOOR AND FRAME, PAINTED TO MATCH CMU FIELD COLOR.
- ⑫ HOLLOW METAL DOOR AND FRAME, PAINTED TO MATCH CMU ACCENT COLOR.
- ⑬ SIGNAGE.
- ⑭ 8"x8" GLASS BLOCK
- ⑮ FAUX DECORATIVE VENT



NOTE: SEE A2.1 FOR ALT. 1 ELEVATIONS



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Project Info. — 22005
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 Watertown, WI

Sheet Title
EXTERIOR ELEVATIONS

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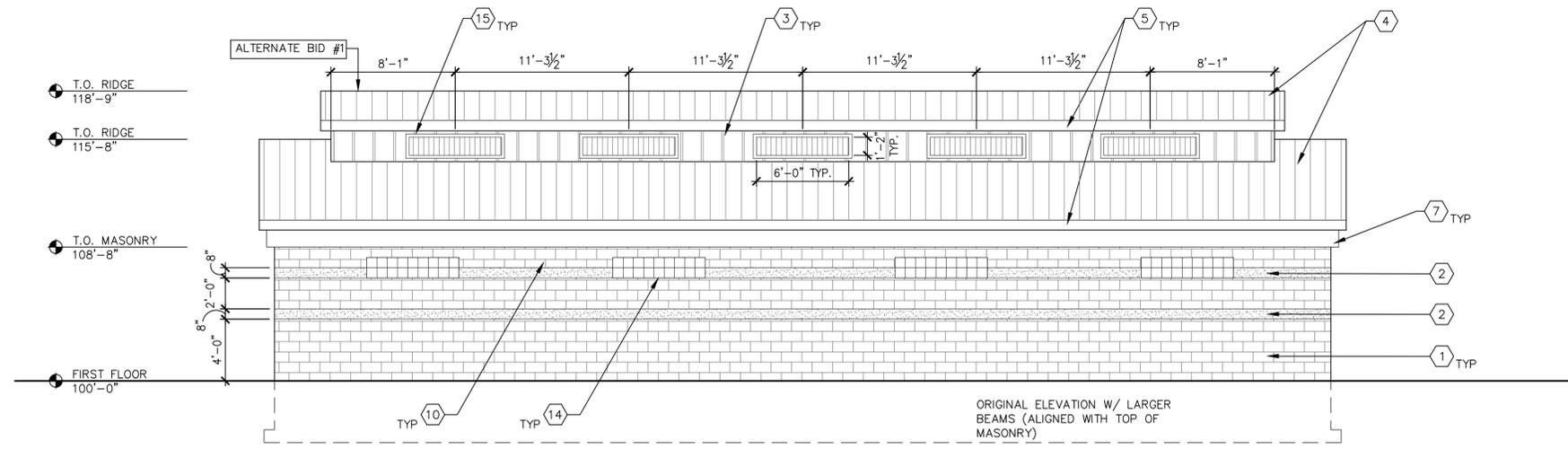
Sheet No.
A2.0

Drawn by	Checked by
JAJ	DMR

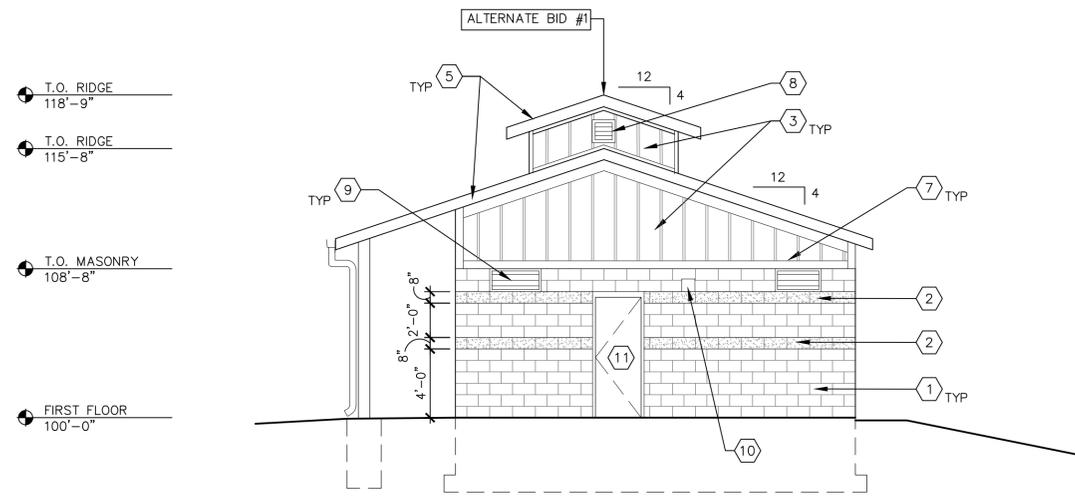
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No.	Date	Description
	01.23.24	Bid & Permit Set

KEY NOTES

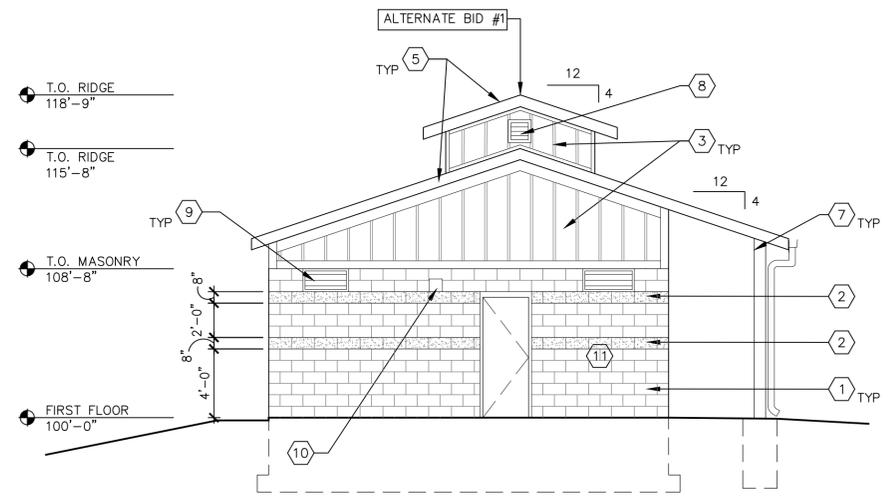
- | | |
|--|---|
| ① CMU SPLIT FACE BLOCK (FIELD)
COLOR: NATURAL, MFG: COUNTY MATERIALS OR EQUAL. | ⑦ CEDAR CLAD STRUCTURE |
| ② CMU SMOOTH FACE BLOCK (ACCENT STRIPE)
COLOR: STEEL GREY, MFG: COUNTY MATERIALS OR EQUAL. | ⑧ 12"x12" PREFINISHED VENT LOUVER, WITH INTERIOR MESH BUG SCREEN |
| ③ BOARD & BATTEN LP SIDING
COLOR: T.B.D. | ⑨ EXHAUST / INTAKE LOUVER, COORDINATE WITH MECHANICALS; COLOR TO MATCH FIELD CMU. |
| BASE BID: STANDING SEAM ROOF
COLOR: CHARCOAL, MFG: ATAS, OR EQUAL. | ⑩ WALL MOUNTED LIGHT FIXTURE, COORDINATE WITH ELECTRICAL. |
| ④ ALTERNATE BID: ASPHALT SHINGLES
COLOR: ESTATE GREY; MFG: OWENS CORNING DURATION OR EQUAL. | ⑪ HOLLOW METAL DOOR AND FRAME, PAINTED TO MATCH CMU FIELD COLOR. |
| ⑤ PREFINISHED ALUMINUM FASCIA, GUTTERS AND DOWNSPOUTS.
COLOR: CHARCOAL GREY, MFG: ATAS, OR EQUAL. | ⑫ HOLLOW METAL DOOR AND FRAME, PAINTED TO MATCH CMU ACCENT COLOR. |
| ⑥ WINDOW, FROSTED GLASS, 3M SECURITY FILM APPLIED, COMPOSITE TRIM, TO MATCH BOARD & BATTEN SIDING | ⑬ SIGNAGE. |
| | ⑭ 8"x8" GLASS BLOCK |
| | ⑮ FAUX DECORATIVE VENT |



NORTH ELEVATION
SCALE: 3/16"=1'-0" (22x34); 3/32"=1'-0" (11x17)

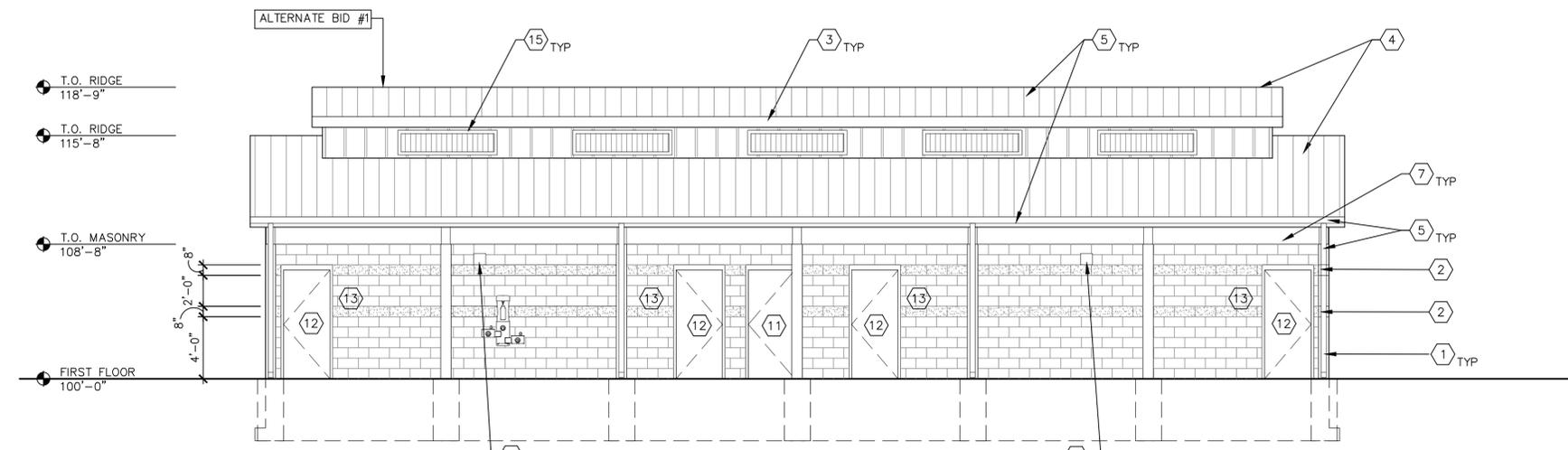


EAST ELEVATION
SCALE: 3/16"=1'-0" (22x34); 3/32"=1'-0" (11x17)



WEST ELEVATION
SCALE: 3/16"=1'-0" (22x34); 3/32"=1'-0" (11x17)

NOTE: SEE A2.0 FOR BASE BID ELEVATIONS



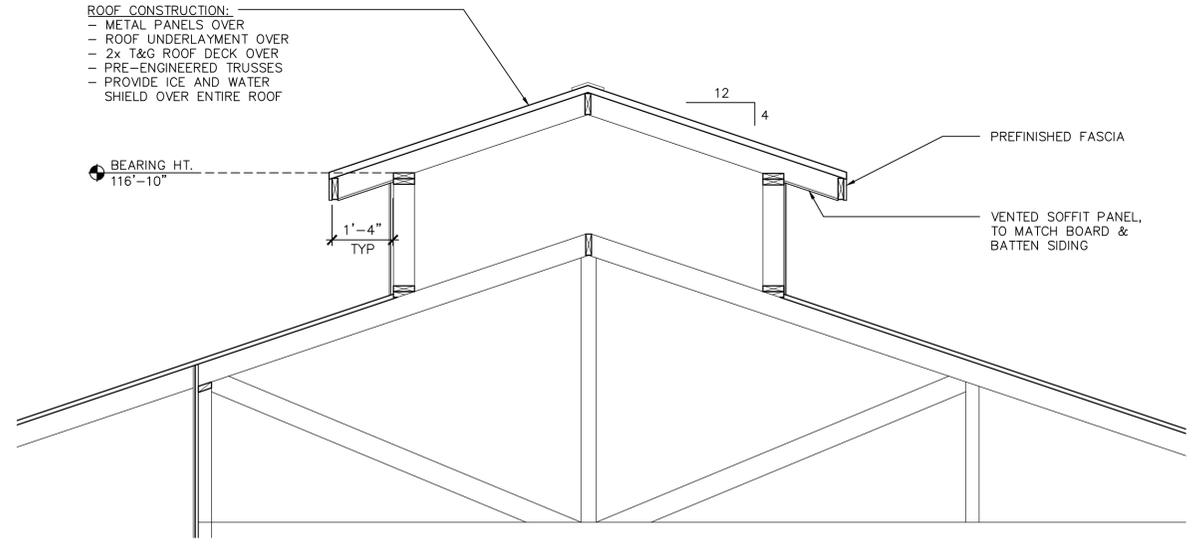
SOUTH ELEVATION
SCALE: 3/16"=1'-0" (22x34); 3/32"=1'-0" (11x17)

2024-01-23 Bid & Permit Set

Sheet Title
BUILDING SECTIONS

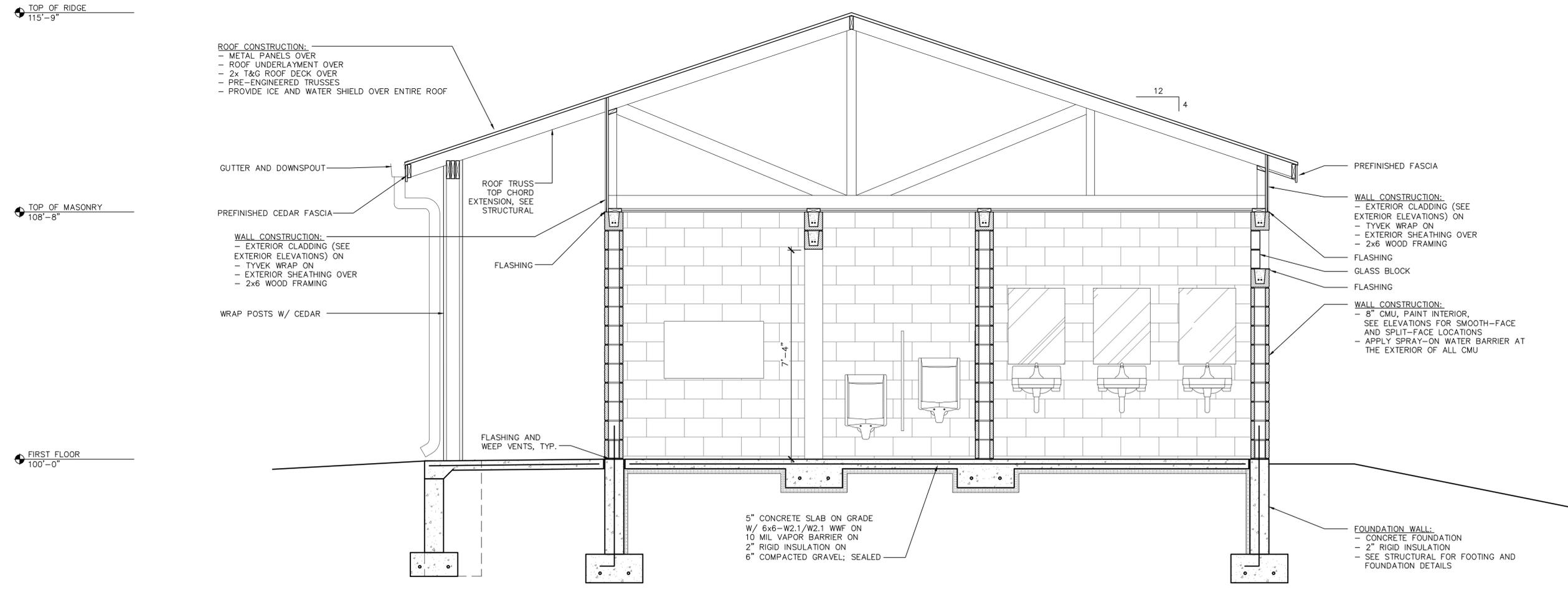
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No.	Date	Description
	01.23.24	Bid & Permit Set



ALTERNATE 1 BUILDING SECTION
 SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17)

SEE 2/A3.0 FOR ALT. 1 BUILDING SECTION



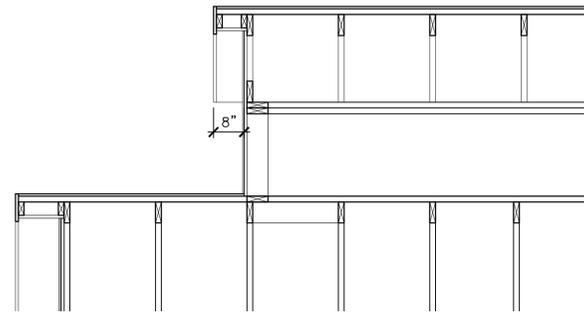
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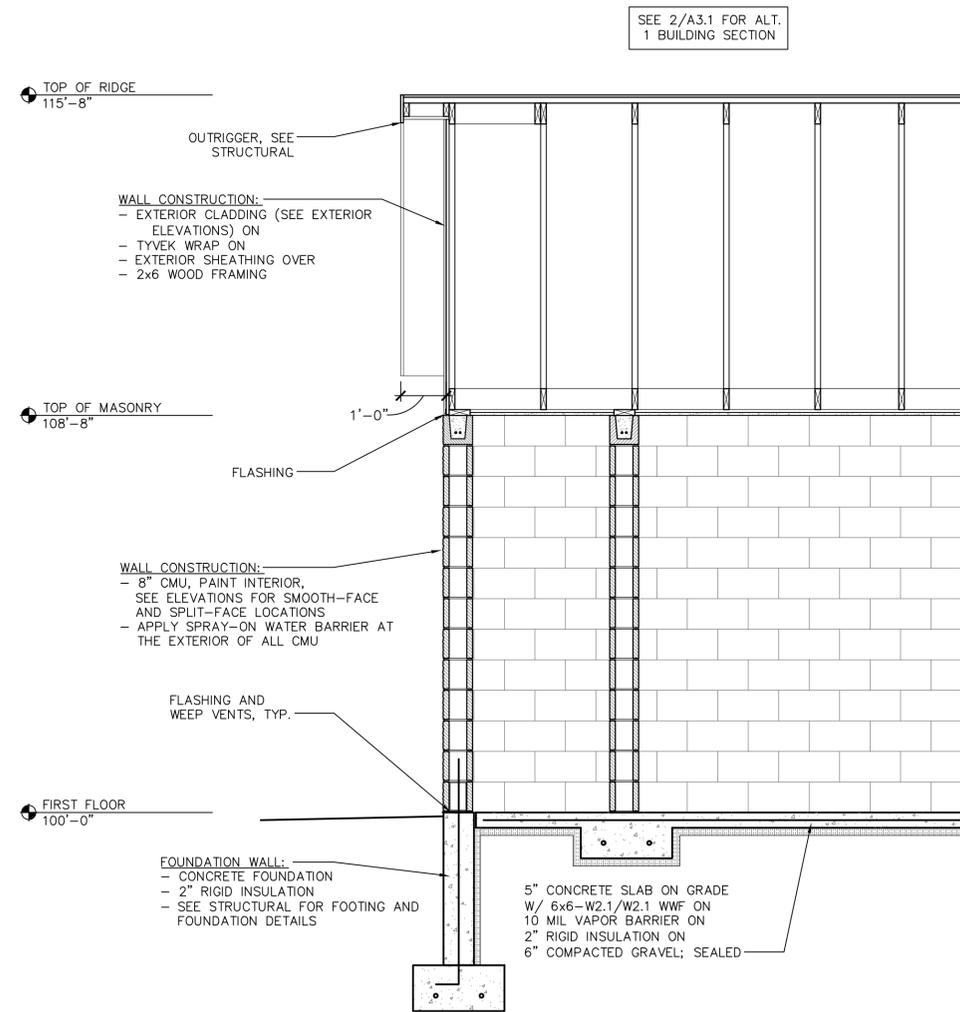
BUILDING SECTIONS

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JAJ	DMR

Revisions		
No.	Date	Description
	01.23.24	Bid & Permit Set



ALTERNATE 1 BUILDING SECTION
SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17) 2



BUILDING SECTION
SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17) 1

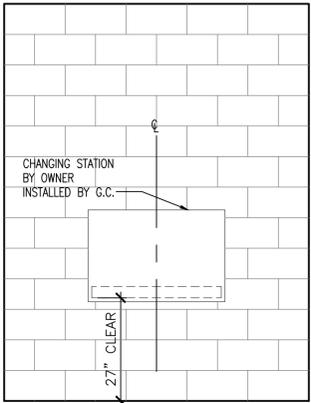
2024-01-23 Bid & Permit Set

NOTES:
 1. SEE THE SPECIFICATIONS FOR ACCESSORIES SELECTIONS.
 2. SEE THE PLUMBING FIXTURE SCHEDULE FOR TOILET, URINAL, AND LAVATORY SELECTIONS.

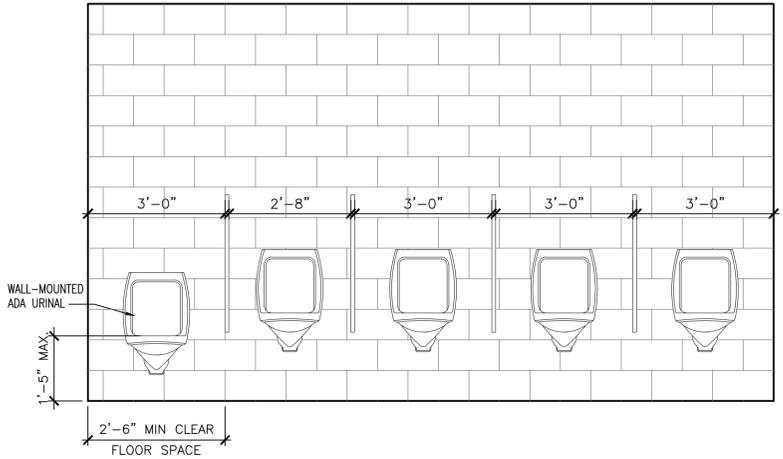
Sheet Title
INTERIOR ELEVATIONS

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JAJ	DMR

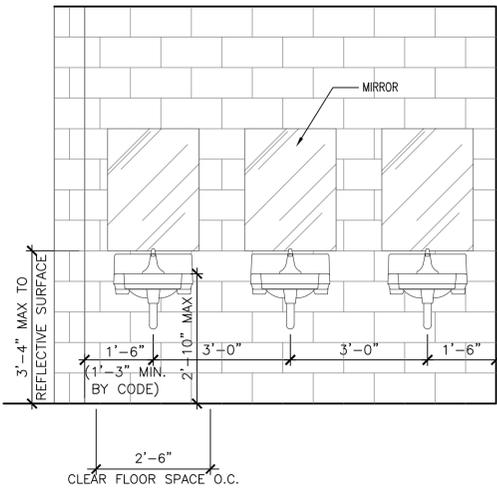
Revisions		
No.	Date	Description
	01.23.24	Bid & Permit Set



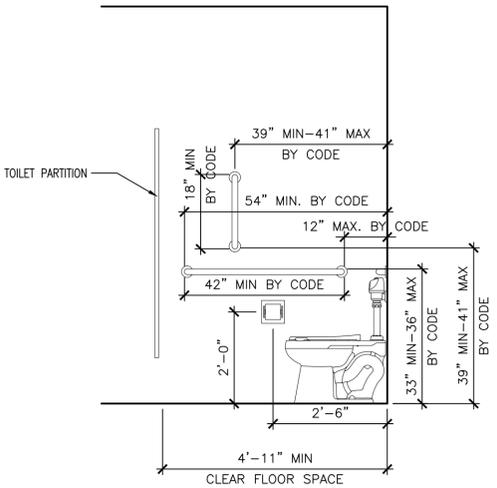
CHANGING STATION
 SCALE: 1/2"=1'0" 5



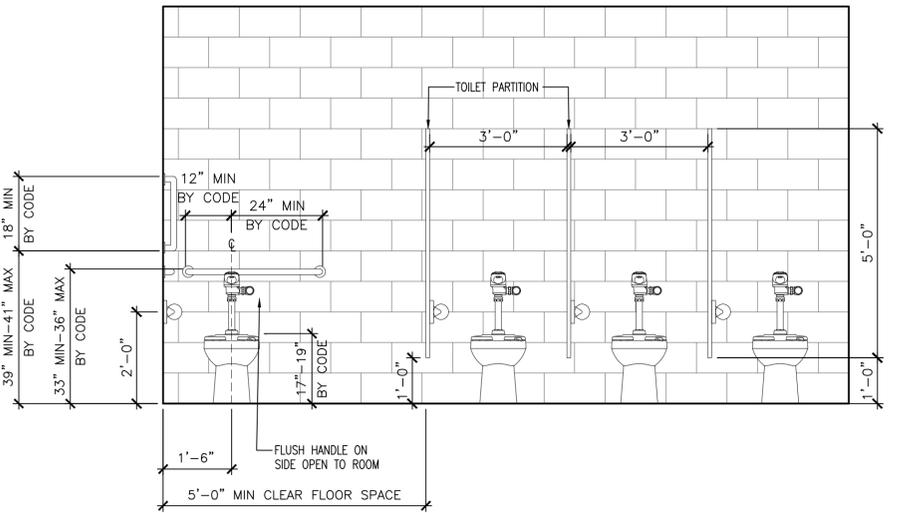
WATER CLOSET WALL
 SCALE: 1/2"=1'0" 4



LAVATORY WALL
 SCALE: 1/2"=1'0" 3



ADA TOILET STALL
 SCALE: 1/2"=1'0" 2



WATER CLOSET WALL
 SCALE: 1/2"=1'0" 1

2024-01-23 Bid & Permit Set

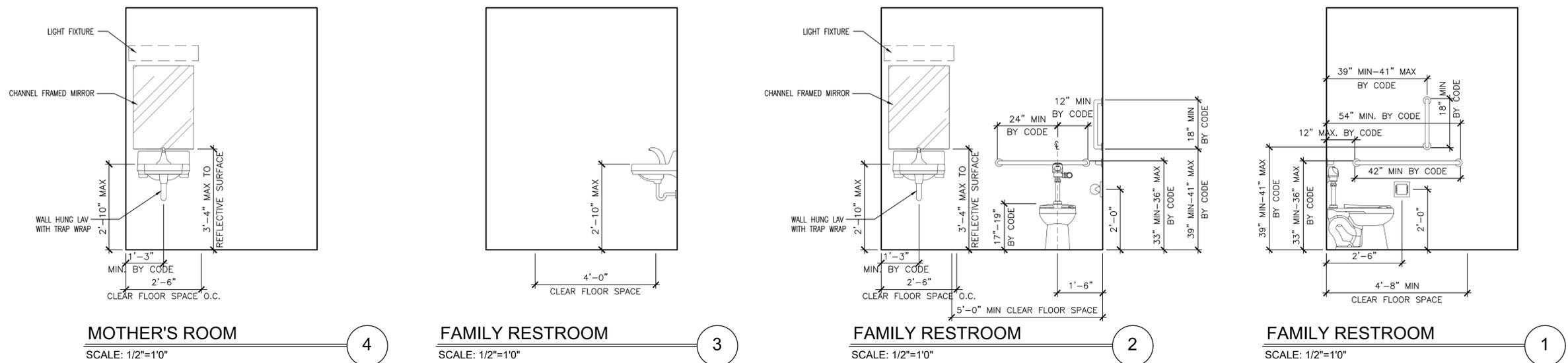
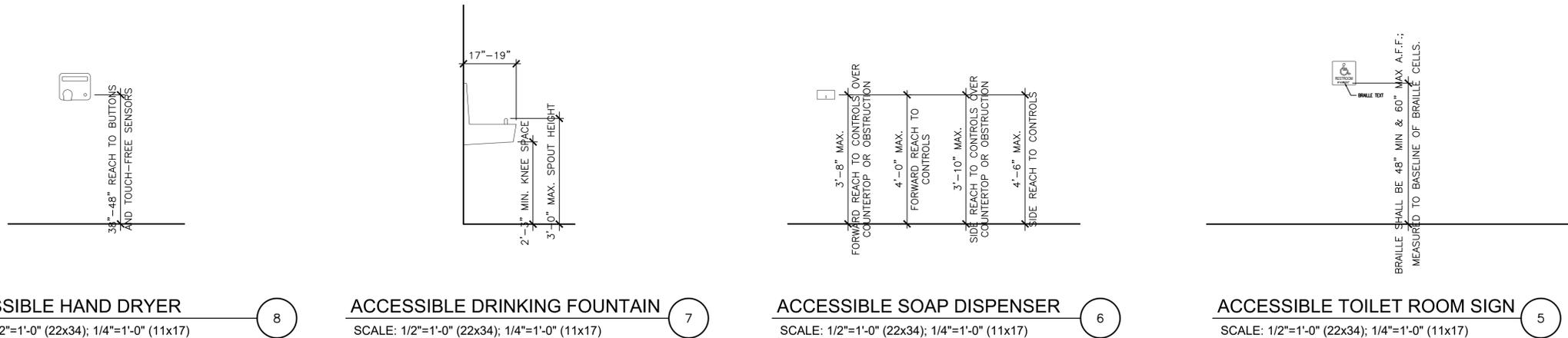
INTERIOR ELEVATIONS

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No.	Date	Description
	01.23.24	Bid & Permit Set

2024-01-23 Bid & Permit Set

NOTES:
1. SEE THE SPECIFICATIONS FOR ACCESSORIES SELECTIONS.
2. SEE THE PLUMBING FIXTURE SCHEDULE FOR TOILET, URINAL, AND LAVATORY SELECTIONS.

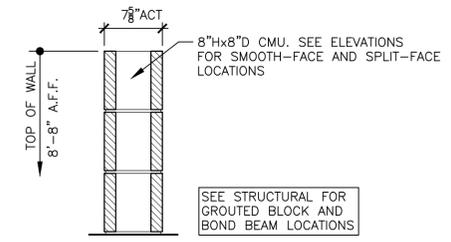


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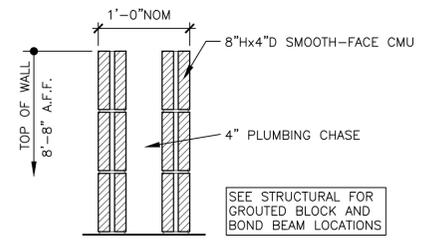
DOOR, WALL TYPES AND SCHEDULES

Drawn by	Checked by
JAJ	DMR

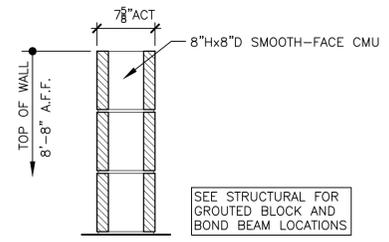
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No.	Date	Description
	01.23.24	Bid & Permit Set



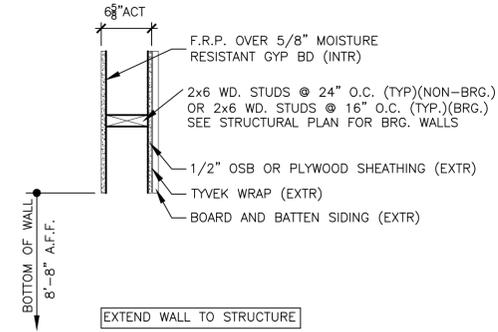
WALL TYPE **A**



WALL TYPE **B**

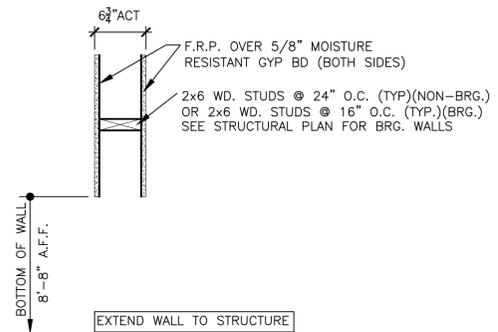


WALL TYPE **C**



WALL TYPE **D**

NOTE: SEE DETAIL 2/A1.1 FOR LOCATIONS OF STUD FRAME WALLS ABOVE CMU BLOCK WALLS.

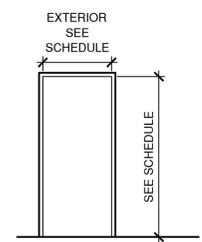


WALL TYPE **E**

NOTE: SEE DETAIL 2/A1.1 FOR LOCATIONS OF STUD FRAME WALLS ABOVE CMU BLOCK WALLS.

FRAME TYPES

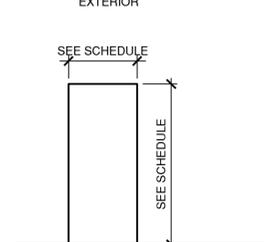
F1



FRAME: HOLLOW METAL
TRIM: NONE
FINISH: PAINTED

DOOR TYPES

D1



THICKNESS: 1-3/4"
MATERIAL: HOLLOW METAL
PANEL: FLUSH
FINISH: PAINTED
GLAZING: NONE
HARDWARE: SEE DOOR SCHEDULE NOTES

DOOR SCHEDULE								
DOOR NUMBER	ROOM NAME	NO. OF PANELS	SIZE		DOOR TYPE	FRAME TYPE	FIRE RATING	REMARKS
			WIDTH	HEIGHT				
100	FAMILY RESTROOM	1	3'-0"	7'-0"	D1	F1		HG1
101	SOUTH CHASE	1	2'-8"	7'-0"	D1	F1		HG2
102	MEN'S TOILET ROOM ENTRY	1	3'-0"	7'-0"	D1	F1		HG1
105	CENTER CHASE	1	3'-0"	7'-0"	D1	F1		HG2
106	WOMEN'S TOILET ROOM ENTRY	1	3'-0"	7'-0"	D1	F1		HG1
109	NORTH CHASE	1	2'-8"	7'-0"	D1	F1		HG2
110	MOTHER'S ROOM	1	3'-0"	7'-0"	D1	F1		HG1

NOTES:
1. G.C. TO SUPPLY ALL DOOR HARDWARE REQUIRED BY CODE.
2. DOOR HARDWARE SHALL COMPLY WITH ICC/ANSI A117.1 SEC 404.2.6 - HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE HARDWARE SHALL BE PLACED AT LEAST 34 INCHES, BUT NOT MORE THAN 48 INCHES ABOVE THE FLOOR SURFACE.
3. COORDINATE REQUIREMENTS OF ELECTRONIC STRIKE WITH OWNER FOR REMOTE/TIMED ACCESS TO PUBLIC DOORS.

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KEY NOTES	
M1	ROUTE DUCT UP AND INTO JOIST SPACE.
M2	CONTRACTOR TO ADD BALANCING DAMPERS FOR EACH GRILLE.

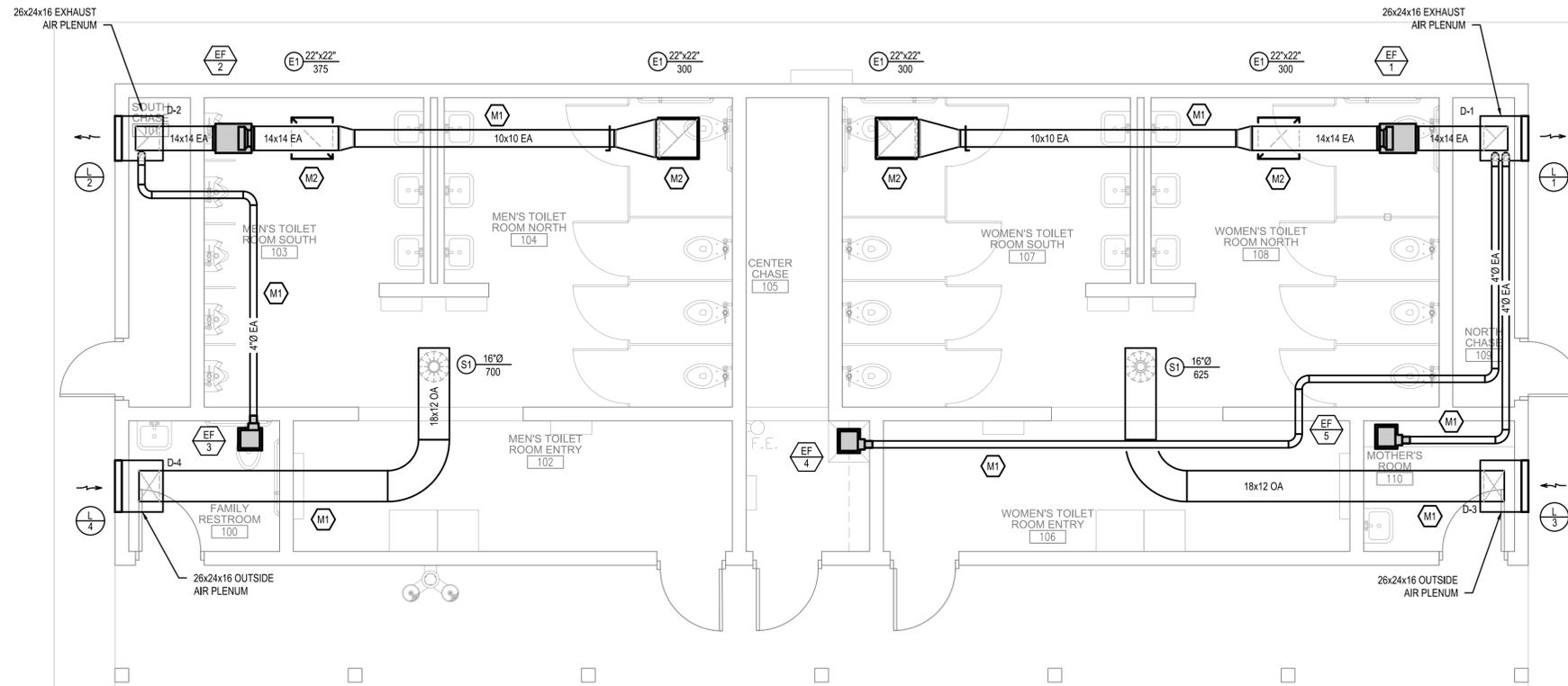
Architect
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 WAUKESHA, WI 53186
 p: 833-380-6180

Project Info. — 22005
Riverside Park Restrooms
 New Construction
 600 Labaree St
 Watertown, WI

Sheet Title
MECHANICAL FLOOR PLAN

Drawn by	Checked by

Revisions		
No.	Date	Description
	01.23.2024	Bid & Permit Set



1 MECHANICAL FLOOR PLAN
 SCALE: 1/4" = 1'-0"



2023-06-30 Bid & Permit Set

Sheet No.
M1.0

KEY NOTES	
E1	PROPOSED LOCATION OF NEW 240V/120V, 100A SERVICE TRANSOCKET. COORDINATE WITH UTILITY.
E2	INTERCEPT AND REROUTE EXISTING ELECTRICAL CONDUIT AND CABLE AROUND NEW BUILDING.
E3	PROVIDE NEW 42 CIRCUIT, 240/120V PANELBOARD. EXTEND EXISTING NEW CIRCUITS FROM EXISTING PANEL BEING REMOVED THAT REMAIN TO NEW PANEL. VERIFY IN FIELD WHICH CIRCUITS ARE TO REMAIN.

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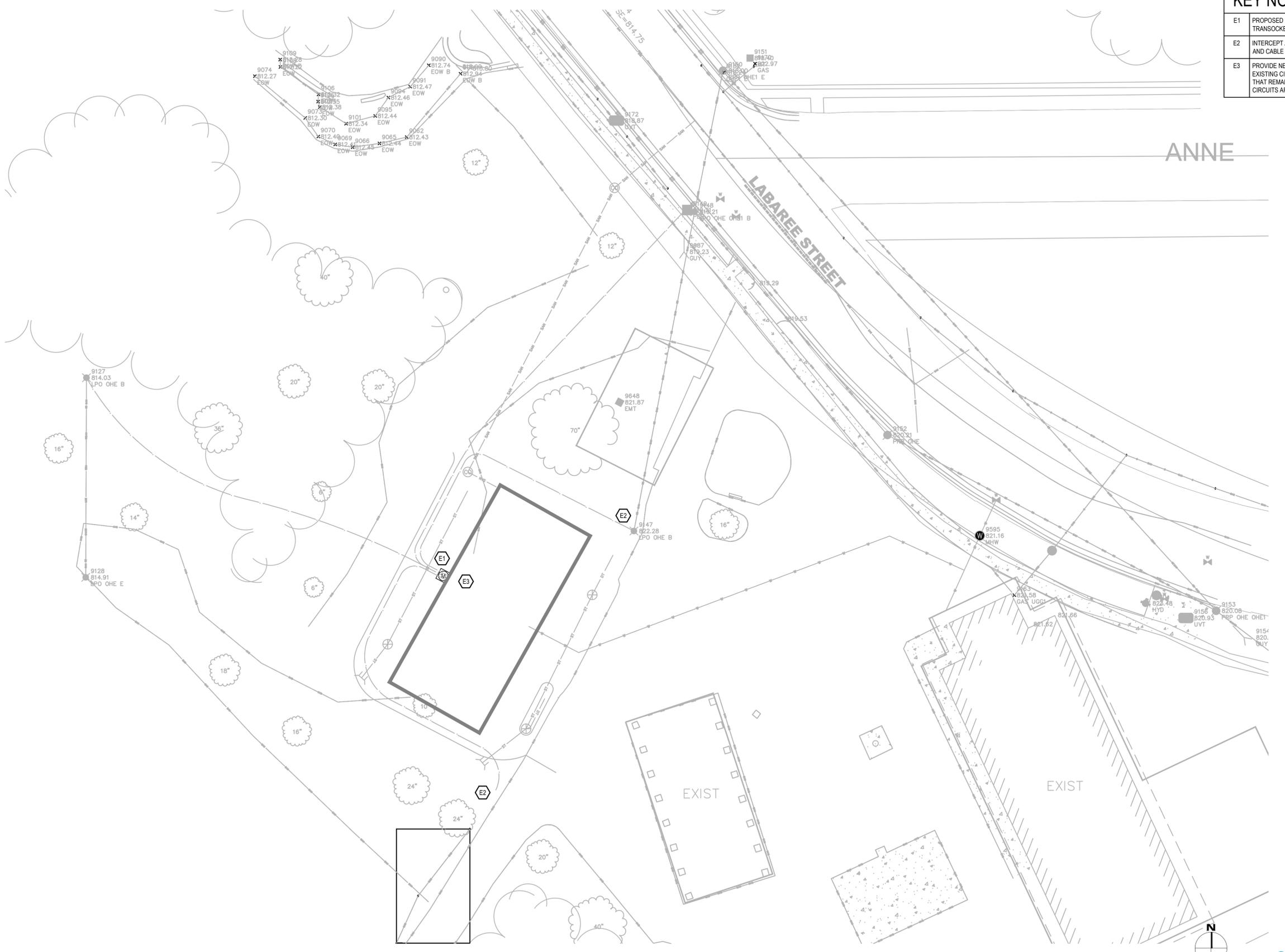
Sheet Title

ELECTRICAL SITE PLAN

Drawn by	Checked by

Revisions		
No.	Date	Description
	01.23.2024	Bid & Permit Set

Sheet No.
E1.0



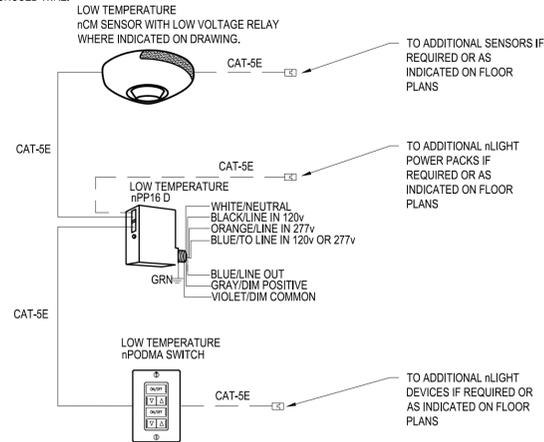
1 ELECTRICAL SITE PLAN
 SCALE: 1/16" = 1'-0"

2023-06-30 Bid & Permit Set



NOTE:

EITHER BLUE WIRE CAN BE CONNECTED TO 120VAC OR 277VAC LINE IN. CAP OFF UNUSED WIRE.



1 TYPICAL nLIGHT 0-10V DIMMING WIRING DIAGRAM

N.T.S.

SHEET NOTES

- EMERGENCY BATTERY UNITS SHALL BE CIRCUITED TO THE UNSWITCHED PORTION OF THE NEAREST LIGHTING BRANCH CIRCUIT SERVING THE IMMEDIATE AREA.

KEY NOTES

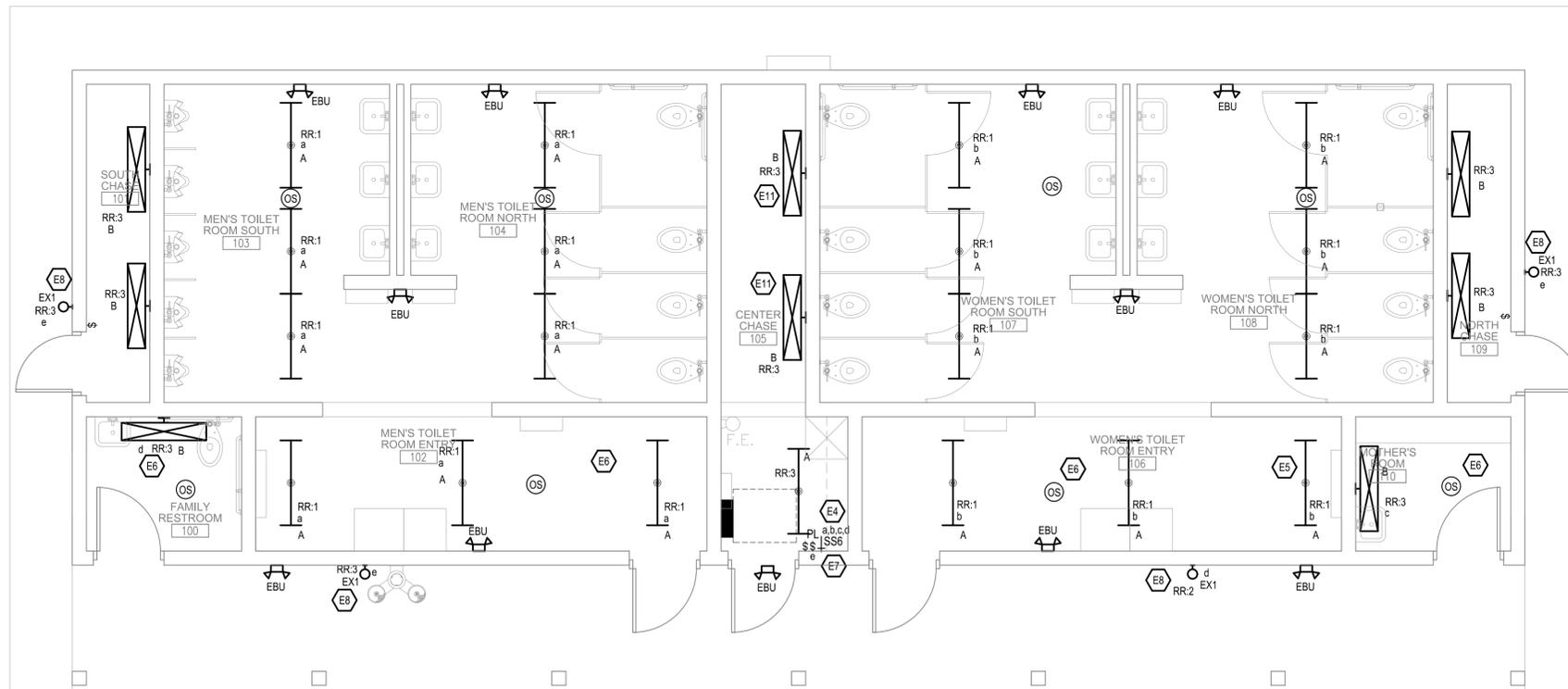
- | | |
|----|--|
| E4 | MANUAL SWITCH IS TO SERVE LOCAL ELECTRICAL/MECHANICAL ROOM. S56 IS TO OVERRIDE INTERIOR TOILET LIGHTS AND THE OTHER MANUAL PILOT SWITCH IS TO OVERRIDE EXTERIOR LIGHTS. SWITCHES SHALL BE LABELED INTERIOR LIGHTING AND EXTERIOR LIGHTING. S56 SHALL BE 4 ZONE DIMMING SWITCH. |
| E5 | LIGHT FIXTURE TYPE A TO BE MOUNTED TO BOTTOM OF CEILING UNLESS INDICATED OTHERWISE. |
| E6 | PROVIDE AUXILIARY CONTACT FOR FAN CONTROL. SWITCH DOES NOT CONTROL FAN. |
| E7 | ZONE LOW VOLTAGE SWITCH, ONE CONTROL FOR EACH TOILET ROOM. |
| E8 | BOTTOM OF FIXTURE SHALL BE 80" AFF. |

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WAUKESHA, WI 53186
p: 833-380-6180

Project Info. — 22005
Riverside Park Restrooms
New Construction
600 Labaree St
Watertown, WI

Sheet Title

ELECTRICAL LIGHTING PLAN



Drawn by	Checked by

Revisions		
No.	Date	Description
	01.23.2024	Bid & Permit Set

1 ELECTRICAL LIGHTING FLOOR PLAN

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



THIS BAR APPEARS 2" LONG ON FULL SIZE SHEETS.

2023-06-30 Bid & Permit Set

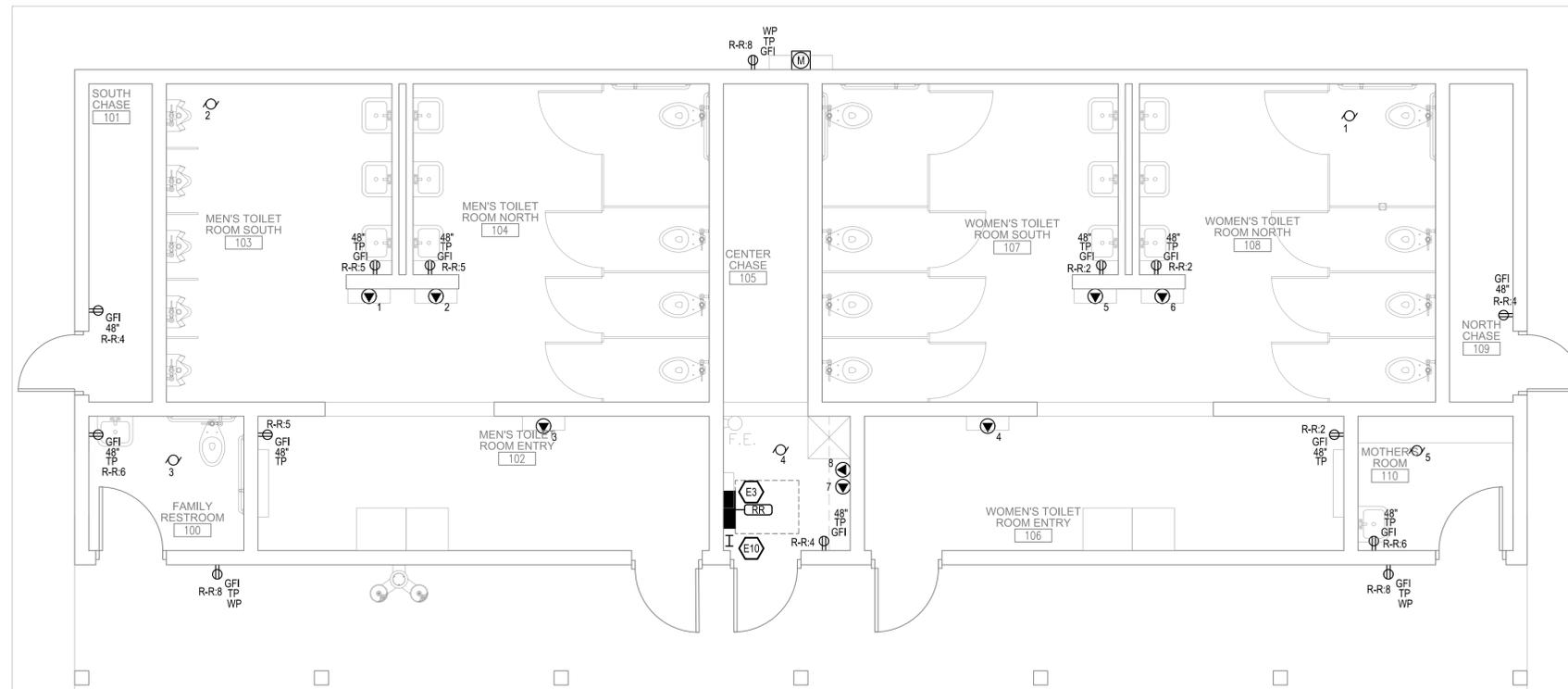
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E2.0

KEY NOTES	
E3	PROVIDE NEW 42 CIRCUIT, 240/120V PANELBOARD. EXTEND EXISTING CIRCUITS FROM EXISTING PANEL BEING REMOVED THAT REMAIN TO NEW PANEL. VERIFY IN FIELD WHICH CIRCUITS ARE TO REMAIN.
E10	PROPOSED LOCATION OF GROUND BAR LOCATED ABOVE PANEL.

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Sheet Title
ELECTRICAL POWER & SYSTEMS FLOOR PLAN



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1 ELECTRICAL POWER & SYSTEMS FLOOR PLAN
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Sheet No.
E3.0

ELECTRICAL SPECIFICATIONS

1. SCOPE	COMPLETION OF HIS WORK IN SUCH A MANNER AS TO CAUSE THE LEAST POSSIBLE INTERFERENCE WITH THE OWNER'S OPERATION. ALL WORK REQUIRED IN THE EXISTING BUILDING SHALL BE LEFT IN A MANNER AND TIME ACCEPTABLE TO THE OWNER. OUTAGES AND OTHER WORK RENDERING EXISTING EQUIPMENT INOPERATIVE SHALL BE HELD TO A MINIMUM - PRIOR ARRANGEMENTS FOR EACH SHALL BE MADE WITH THE OWNER AND SHALL BE ACCEPTABLE AS TO TIME AND DURATION	18.1. THE INSTALLATION OF ALL WORK SHALL BE MADE SO THAT ITS SEVERAL COMPONENT PARTS WILL FUNCTION AS A WORKABLE SYSTEM COMPLETE WITH ALL ACCESSORIES NECESSARY FOR ITS OPERATION, AND SHALL BE LEFT WITH ALL EQUIPMENT PROPERLY ADJUSTED AND IN WORKING ORDER. THE WORK SHALL BE EXECUTED IN CONFORMITY WITH THE BEST ACCEPTED STANDARD PRACTICE OF THE TRADE SO AS TO CONTRIBUTE TO EFFICIENCY AND APPEARANCE. IT SHALL ALSO BE EXECUTED SO THAT THE INSTALLATION WILL CONFORM AND ADJUST ITSELF TO THE BUILDING STRUCTURE, ITS EQUIPMENT AND ITS USAGE.	30.2. FEEDER AND POWER WIRING: MECHANICAL TYPE LUGS AND CONNECTORS ON SIZES NO. 8 AND LARGER. 30.3. INSULATION: USE ONE HALF-LAPPED OKONITE RUBBER TAPE OR SCOTCH #33 AND COMPLY WITH ALL CODE REQUIREMENTS.	37.4. SWITCH STATION: 37.4.1. ALL SWITCHES SHALL BE ENGRAVED INDICATING CONTROLLED ITEM. 37.4.2. ALL REMOTE SWITCHES SHALL BE ENGRAVED INDICATING CONTROLLED ITEM.
2. GENERAL PROVISIONS	22.2. ELECTRICAL EQUIPMENT IN CONFLICT WITH CONSTRUCTION SHALL BE REMOVED AND/OR RELOCATED AS INDICATED ON THE DRAWINGS, AS DIRECTED OR REQUIRED. THIS CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT RELEASED FROM SERVICE AS A RESULT OF CONSTRUCTION, AND NO EQUIPMENT REMOVED SHALL BE REUSED, EXCEPT AS SPECIFICALLY DIRECTED ON THE DRAWINGS OR ELSEWHERE HEREIN. THE OWNER SHALL HAVE THE PRIVILEGE TO RETAIN OWNERSHIP OF ANY ELECTRICAL EQUIPMENT THAT HAS BEEN REMOVED, AND ALL SUCH EQUIPMENT SHALL BE RELOCATED TO A DESIGNATED TEMPORARY LOCATION FOR STORAGE UNTIL REMOVED BY THE OWNER. ALL OTHER EQUIPMENT, CONDUIT, CONDUCTORS, AND MISCELLANEOUS HARDWARE REMOVED SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.	19. DRAWINGS OF OTHER TRADES 19.1. THE CONTRACTOR SHALL CONSULT THE DRAWINGS OF THE WORK FOR THE VARIOUS OTHER TRADES, FIELD LAYOUTS OF THE PARTIES PERFORMING THE WORK OF THE OTHER TRADES, THEIR SHOP DRAWINGS, AND HE SHALL BE GOVERNED ACCORDINGLY IN LAYING OUT HIS WORK. 19.2. SPECIFICALLY EXAMINE SHOP DRAWINGS TO CONFIRM VOLTAGE, CURRENT CHARACTERISTICS, AND OTHER WIRING REQUIREMENTS FOR UTILIZATION EQUIPMENT. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE A/E.	31. ELECTRICAL SERVICE 31.1. PROVIDE (2) NEW ELECTRICAL SERVICE AT 120/208V, 3 PHASE, 4 WIRE AS INDICATED ON CONSTRUCTION DOCUMENTS. 31.2. COORDINATE ALL ASPECTS OF THE SERVICE WITH THE ELECTRIC UTILITY AND COMPLY WITH ALL THEIR REQUIREMENTS. 31.3. COST OF SERVICE BY OWNER.	37.5. CONDUCTOR IDENTIFICATION: 37.5.1. IDENTIFY EACH CONDUCTOR AT EACH WIRING DEVICE, CONNECTOR OR SPLICE POINT WITH PERMANENTLY ATTACHED WRAP-AROUND ADHESIVE MARKERS AS MANUFACTURED BY BRADY CO. 37.5.2. THIS IDENTIFICATION SHALL INCLUDE BRANCH CIRCUIT NUMBER, CONTROL CIRCUIT, OR ANY OTHER APPROPRIATE NUMBER OR LETTERING THAT WILL EXPEDITE FUTURE TRACING AND TROUBLE SHOOTING. 37.5.3. MARK THE PANEL AND CIRCUIT NUMBER SERVING THE DEVICE ON THE BACK OF THE DEVICE COVERPLATE USING A PERMANENT MARKING SYSTEM THAT DOES NOT SHOW THROUGH THE FRONT OF THE PLATE.
2.2.1. CONDITIONS AFFECTING THIS SECTION OF THE WORK. 2.2.2. ACCESSIBILITY 2.2.3. STORAGE SPACE	22.2.3. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE WORK OF OTHER TRADES AS MAY BE NECESSARY TO FACILITATE THE INSTALLATION OF ELECTRICAL WORK IN THE EXISTING BUILDING. SUCH WORK NECESSARY THAT IS NORMALLY DONE BY OTHER TRADES AND IS NOT COVERED AS A PART OF OTHER DIVISIONS OF THE WORK SHALL BE DONE UNDER THE DIRECTION AND AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.	20. FIELD MEASUREMENTS 20.1. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY FOR HIS WORK AND SHALL ASSUME THE FULL RESPONSIBILITY FOR THEIR ACCURACY.	32. GROUNDING 32.1. COMPLETE RACEWAY SYSTEM SHALL BE GROUNDED SO GROUND WILL BE ELECTRICALLY CONTINUOUS FROM SOURCE TO ALL OUTLET BOXES AND EQUIPMENT. 32.2. PROVIDE BONDING CONDUCTORS AS REQUIRED TO SECURELY GROUND ALL ELECTRICAL EQUIPMENT ENCLOSURES, INCLUDING LIGHTING FIXTURES IF THEY HAVE METALLIC HOUSING AND ARE GROUND CONNECTED. 32.3. FLEXIBLE METAL CONDUIT MUST BE JUMPED WITH A GREEN GROUNDING CONDUCTOR. 32.4. GROUND SERVICE PER CODE.	38. WIRING DEVICES 38.1. GENERAL: 38.1.1. AT EACH LOCATION SHOWN ON THE DRAWINGS, FURNISH AND INSTALL WIRING DEVICE AS INDICATED BY SYMBOL ON THE DRAWINGS. 38.1.2. UNLESS OTHERWISE INDICATED, ALL WIRING DEVICES SHALL BE BY THE SAME MANUFACTURER, EITHER ARROW-HART-HEGEMAN, HUBBELL, PASS AND SEYMOUR, EAGLE, LEVITON, BRYANT OR SLATER, PASS AND SEYMOUR CATALOG NUMBERS ARE USED HEREIN TO DESIGNATE TYPE OF DEVICE REQUESTED. ALL WIRING DEVICES SHALL BE FEDERAL SPECIFICATION GRADE, IVORY DEVICES SHOWN - PROVIDE COLOR SELECTED BY ARCHITECT. 38.1.3. WRAP WIRING DEVICES WITH INSULATING TAPE BEFORE INSTALLING.
3.1. THIS SECTION OF THE SPECIFICATIONS APPLIES TO ALL ELECTRICAL WORK. THE FRONT END DOCUMENTS AND DIVISION 1 FORM A PART OF THESE SPECIFICATIONS AND THE CONTRACTOR SHALL CONSULT THEM IN DETAIL. ELECTRICAL WORK INDICATED IN OTHER SECTIONS OF THE SPECIFICATIONS TO BE DONE BY THE ELECTRICAL CONTRACTOR SHALL BE INCLUDED IN THE WORK OF THIS SECTION.	22.2.4. THIS WORK SHALL INCLUDE BUT IS NOT LIMITED TO, CUTTING, PATCHING, AND REFINISHING AND ALL NECESSARY AND REQUIRED TO LEAVE EXISTING BUILDING IN ACCEPTABLE CONDITION.	21. STRUCTURAL INTERFERENCES 21.1. SHOULD ANY STRUCTURAL INTERFERENCES PREVENT THE INSTALLATION OF THE OUTLETS, RUNNING OF CONDUITS, ETC., AT POINTS SHOWN ON DRAWINGS, THE NECESSARY MINOR DEVIATIONS THEREFROM, AS DETERMINED BY THE ARCHITECT, MAY BE PERMITTED, MINOR CHANGES IN THE POSITION OF THE OUTLETS OR EQUIPMENT IF DECIDED UPON BEFORE ANY WORK HAS BEEN DONE BY THE CONTRACTOR SHALL BE MADE WITHOUT ADDITIONAL CHARGE.	33. BRANCH CIRCUIT WIRING 33.1. SEE PLANS FOR GENERAL ARRANGEMENT OF CIRCUITS, CONDUIT RUNS, AND RATINGS OF BRANCH CIRCUITS AND SPECIAL CIRCUITS. 33.2. PROVIDE EVERYTHING NECESSARY TO COMPLY WITH THE GENERAL SCHEME SHOWN, INCLUDING ALL TYPES OF CONTROL. 33.3. CIRCUIT NUMBERS AS SHOWN ON PLANS ARE FOR CONTRACTOR TO PLAN HIS WIRING AND FOR ESTIMATING PURPOSES. THESE NUMBERS ARE NOT NECESSARILY CONSECUTIVE NUMBERS OF THE PANELBOARD BREAKERS. BALANCED LOAD ON BUS IS TO BE THE DETERMINING FACTOR IN ARRANGEMENT OF CIRCUITS. BALANCE LOADING TO WITHIN 7 1/2%. 33.4. MINIMUM SIZE OF LIGHTING SYSTEM BRANCH CIRCUIT CONDUCTORS TO BE #12 AWG. 33.5. CONDUCTORS TERMINATING AT WIRED OUTLETS SHALL EXTEND AT LEAST EIGHT (8) INCHES BEYOND OUTLET BOX CONDUIT FITTING. 33.6. 120 VOLT CIRCUIT HOME RUNS GREATER THAN 100 FEET IN LENGTH SHALL HAVE #10 AWG MINIMUM SIZE BETWEEN PANEL AND FIRST RECEPTACLE OR FIXTURE OUTLET.	38.2. LOCAL SWITCHES: 38.2.1. IN GENERAL: 38.2.1.1. SINGLE POLE - PASS AND SEYMOUR 20AC 14 38.2.1.2. DOUBLE POLE - PASS AND SEYMOUR 20AC 24 38.2.1.3. THREE WAY - PASS AND SEYMOUR 20AC 34 38.2.1.4. FOUR WAY - PASS AND SEYMOUR 20AC 44 38.2.1.5. LOCK TYPE AS INDICATED BY SYMBOL ON THE DRAWINGS. 38.2.1.6. ALL LOCAL SWITCHES CONTROLLING LIGHTS OR EQUIPMENT AT LOCATIONS OTHER THAN THE ROOM IN WHICH THE SWITCH IS LOCATED SHALL BE COMPLETE WITH RED NEON PILOT LAMP TO INDICATE THE ENERGIZED POSITION OF THE LIGHTS OR EQUIPMENT IN QUESTION. IN ADDITION, SWITCH PLATE SHALL BE ENGRAVED TO IDENTIFY LIGHTS OR EQUIPMENT. 38.2.1.7. WALL SWITCH OCCUPANCY SENSOR SHALL BE "L" LIGHT "WSX-PDT-LT-SSW" WITH PHOTO SENSOR OR EQUAL. 38.2.1.8. NETWORK CELING OCCUPANCY/DA/VIOLIGHT SENSOR SYSTEM SHALL BE "L" LIGHT SENSOR "L"CM-PDT-10-RUB-ADCX-AR(WHERE INDICATED ON DRAWINGS)"LT" SWITCH "PDM-44-LT-SSW"; POWER PACK "HP16-D-EFP-LT" OR EQUAL. EACH ROOM SHALL HAVE A POWER PACK.
4.1. CERTAIN TERMS USED HEREIN, ON THE DRAWINGS, AND IN THE CONTRACT DOCUMENTS, SHALL BE DEFINED AS FOLLOWS: 4.1.1. PROVIDE: FURNISH AND INSTALL COMPLETE AND READY FOR SERVICE. 4.1.2. EXPOSED: EXPOSED TO VIEW IN ANY ROOM, HALLWAY, PASSAGEWAY, OR OUTSIDE. 4.1.3. APPROVAL: THE APPROVAL OF THE ARCHITECT IN WRITING OR BY SIGNED RUBBER STAMP APPLIED TO DRAWINGS, ILLUSTRATIONS, ETC.	22.2.4. THIS WORK SHALL INCLUDE BUT IS NOT LIMITED TO, CUTTING, PATCHING, AND REFINISHING AND ALL NECESSARY AND REQUIRED TO LEAVE EXISTING BUILDING IN ACCEPTABLE CONDITION.	22. EXAMINATION OF PLANS, SPECIFICATIONS AND SITE 22.1. BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL FEATURES OF THE BUILDING AND SITE WHICH MAY AFFECT THE EXECUTION OF HIS WORK. NO EXTRA PAYMENT WILL BE ALLOWED FOR THE FAILURE TO OBTAIN THIS INFORMATION. IF IN THE OPINION OF THE CONTRACTOR THERE ARE OMISSIONS OR ERRORS IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CLARIFY THESE POINTS WITH THE ARCHITECT BEFORE SUBMITTING HIS BID. IN LIEU OF WRITTEN CLARIFICATION BY ADDENDUM, RESOLVE ALL CONFLICTS IN FAVOR OF THE GREATER QUANTITY OR BETTER QUALITY.	34. DISCONNECT SWITCHES 34.1. PROVIDE HEAVY DUTY FUSIBLE TYPE DISCONNECT SWITCHES OF TYPES SCHEDULES AT LOCATIONS SHOWN ON THE DRAWINGS. 34.2. IN ADDITION, PROVIDE OTHER DISCONNECT SWITCHES AS NECESSARY AND REQUIRED WITH POLES AND VOLTAGE RATINGS AS REQUIRED FOR THE APPLICATION. 34.3. DISCONNECT SWITCHES SHALL BE HEAVY DUTY SWITCH OPERATED TYPE WITH COVER INTERLOCK AND ENCLOSED ARC CHAMBER, QUICK-MAKE AND QUICK-BREAK AND PROVISION FOR PADLOCKING IN EITHER THE OPEN OR CLOSED POSITION. ALL HEAVY DUTY SAFETY SWITCHES 30-600A, SHALL BE PROVIDED WITH CLASS R REJECTION STYLE FUSE CLIPS. THE COMBINATION RATINGS OF THE HEAVY DUTY SWITCH AND FUSE SHALL BE 200,000 SYMMETRICAL AMPS AND LABELED AS SUCH. APPROVED MANUFACTURERS: SQUARE D AND EATON/CUTLER-HAMMER. 34.4. SEE "MOTOR WIRING" OF THESE SPECIFICATIONS AS TO REQUIREMENTS PERTAINING TO MOTOR DISCONNECT SWITCHES AND FURNISH AND INSTALL SAME IN ACCORDANCE WITH REQUIREMENTS THEREIN.	38.2.1.9. WALL SWITCH OCCUPANCY SENSOR SHALL BE "L" LIGHT "WSX-PDT-LT-SSW" WITH PHOTO SENSOR OR EQUAL. 38.2.1.10. NETWORK CELING OCCUPANCY/DA/VIOLIGHT SENSOR SYSTEM SHALL BE "L" LIGHT SENSOR "L"CM-PDT-10-RUB-ADCX-AR(WHERE INDICATED ON DRAWINGS)"LT" SWITCH "PDM-44-LT-SSW"; POWER PACK "HP16-D-EFP-LT" OR EQUAL. EACH ROOM SHALL HAVE A POWER PACK.
5.1. THESE SPECIFICATIONS AND ATTENDANT DRAWINGS ARE INTENDED TO COVER A COMPLETE INSTALLATION OF SYSTEMS, THE OMISSION OF EXPRESSED REFERENCE TO ANY ITEM OF LABOR OR MATERIAL NECESSARY FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH PRESENT PRACTICES OF THE TRADE SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH ADDITIONAL LABOR AND MATERIALS.	22.2.4. THIS WORK SHALL INCLUDE BUT IS NOT LIMITED TO, CUTTING, PATCHING, AND REFINISHING AND ALL NECESSARY AND REQUIRED TO LEAVE EXISTING BUILDING IN ACCEPTABLE CONDITION.	23. GUARANTEE 23.1. THE CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE HIS WORK AND ALL COMPONENTS THEREOF, EXCLUDING LAMPS, FOR A PERIOD OF ONE YEAR FROM THE DATE OF HIS FINAL PAYMENT. HE SHALL REMEDY ANY DEFECTS IN WORKMANSHIP AND REPAIR OR REPLACE ANY FAULTY EQUIPMENT WHICH SHALL APPEAR WITHIN THE GUARANTEE PERIOD TO THE ENTIRE SATISFACTION OF THE ARCHITECT AT NO ADDITIONAL CHARGE.	35. LIGHTING FIXTURES, LAMPS AND BALLASTS 35.1. GENERAL: 35.1.1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHT FIXTURES AS SHOWN ON THE DRAWINGS. 35.1.2. THE APPROXIMATE LOCATION OF LIGHTING FIXTURES IS SHOWN ON THE DRAWINGS, THE EXACT LOCATION SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD. 35.1.3. THE FIXTURE TYPES THAT SHALL BE INSTALLED ARE DEPICTED ON THE DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL FURTHER EXAMINE ALL CONSTRUCTION AND SUPPLY ALL REQUIRED ACCESSORIES TO HANG THE FIXTURES. 35.1.4. THE CONTRACTOR SHALL VERIFY CEILING TYPES AND PROVIDE COMPATIBLE FIXTURES. CONFIRM LOCATION WITH ARCHITECTAL REFLECTED CEILING PLAN. 35.1.5. ALL FIXTURES IN LAY-IN CEILING SHALL RECEIVE THEIR FINAL CONNECTION VIA A 6'-0" LENGTH OF FLEXIBLE METALLIC CONDUIT TO PERMIT RELOCATION. 35.2. ALL OUTDOOR DRIVERS SHALL BE DESIGNED FOR OPERATION DOWN TO MINUS 20 DEG. F.	38.3. RECEPTACLES: ALL RECEPTACLES SHALL BE RATED FOR CAPACITY AND CHARACTERISTICS OF THE EQUIPMENT SERVICED AND SHALL BE COMPLETE WITH ONE ADDITIONAL POLE FOR GROUNDING. SELF-GROUNDING RECEPTACLES ARE NOT ACCEPTABLE. IVORY DEVICES ARE INDICATED. VERIFY COLOR DESIRED WITH ARCHITECT. 38.3.1. IN GENERAL: 38.3.1.1. 20 AMPERE, 125 VOLT DUPLEX - PASS AND SEYMOUR HBL 5352J 38.3.1.2. 20 AMPERE, 125 VOLT DUPLEX, GFI - PASS AND SEYMOUR GFR 5352L 38.3.1.3. 20 AMPERE, 125 VOLT DUPLEX, GFI, TAMPER RESISTANCE - PASS AND SEYMOUR PT2097TRW 38.3.1.4. 20 AMPERE, 125 VOLT DUPLEX, GFI, TAMPER RESISTANCE, WEATHER RESISTANCE - PASS AND SEYMOUR 2097TRWW 38.3.2. PROVIDE WEATHER RESISTANT GFI RECEPTACLES AS INDICATED BY SYMBOL ON DRAWINGS MOUNTED WITHIN CAST GASKETED WEATHERPROOF WHILE "IN-USE". NON-METALLIC COVERS NOT ACCEPTABLE.
6.1. THE ELECTRICAL DRAWINGS DO NOT ATTEMPT TO SHOW THE COMPLETE DETAILS OF BUILDING CONSTRUCTION WHICH AFFECT THE ELECTRICAL INSTALLATION. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, CIVIL, STRUCTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DETAILS WHICH AFFECT THE PROPER INSTALLATION OF THIS WORK. 6.2. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE A/E FOR RESOLUTION. 6.3. THE CONTRACTOR IS CAUTIONED THAT DIAGRAMS SHOWING ELECTRICAL CONNECTIONS AND/OR CIRCUITING ARE DIAGRAMMATIC ONLY AND MUST NOT BE USED FOR OBTAINING LINEAL RUNS OF WIRE TO CONDUIT. WIRING DIAGRAMS DO NOT NECESSARILY SHOW THE EXACT PHYSICAL ARRANGEMENT OF THE EQUIPMENT.	22.2.4. THIS WORK SHALL INCLUDE BUT IS NOT LIMITED TO, CUTTING, PATCHING, AND REFINISHING AND ALL NECESSARY AND REQUIRED TO LEAVE EXISTING BUILDING IN ACCEPTABLE CONDITION.	24. ELECTRICAL SYSTEM 24.1. PROVIDE ELECTRICAL DISTRIBUTION SYSTEMS AS INDICATED ON THE DRAWINGS WITH ALL NECESSARY BRANCH CIRCUIT WIRING AND ASSOCIATED EQUIPMENT AS SPECIFIED HEREINAFTER OR ON INSTALLATION. 24.2. PROVIDE ALL CIRCUIT WIRING FOR COOLING AND VENTILATING EQUIPMENT INCLUDING THE FINAL ELECTRICAL CONNECTION TO ALL LINE VOLTAGE EQUIPMENT. 24.3. PROVIDE LIGHTING FIXTURES AND LAMPS AS DESCRIBED IN LIGHTING FIXTURE SCHEDULE. 24.4. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.	36. IDENTIFICATION 36.1. GENERAL: 36.1.1. MATERIALS AND EQUIPMENT INSTALLED UNDER THIS SECTION SHALL BE CLEARLY IDENTIFIED AS LISTED BELOW. 36.1.2. LOCATE IDENTIFICATION CONSPICUOUSLY. 36.1.3. TERMINOLOGY IS TO BE APPROVED BY ARCHITECT. 36.1.4. SEE PLANS FOR ANY ADDITIONAL ITEMS TO BE IDENTIFIED. 36.1.5. LOADS SUCH AS MOTORS SHALL BE DESCRIBED BY FUNCTION RATHER THAN BY THE SYSTEM OR BY ARBITRARY NUMBER AS SHOWN ON ELECTRICAL PLANS. 36.1.6. USE ABBREVIATIONS SPARINGLY. 36.2. LAMINATED BAKELITE PLATES: ENGRAVED PLASTIC NAMEPLATE SHALL BE SECURELY FASTENED TO THE FOLLOWING EQUIPMENT, SIZE 1" X 4" WITH 3/8" HIGH LETTERS, UNLESS SPACE AVAILABLE DICTATES DIFFERENTLY. 36.2.1. EACH PANELBOARD, CONTACTOR, TIME SWITCH, STARTER OR DISCONNECT SWITCH, LOCATE ON INSIDE COVER OF PANELS. 36.2.2. EACH FEEDER AT ALL ACCESSIBLE LOCATIONS. EACH END OF EMPTY CONDUIT RUNS TO INDICATE THE INTENDED USE OF THE CONDUIT AND THE LOCATION OF OPPOSITE END. USE ROOM NUMBERS THAT ARE PERMANENTLY ASSIGNED.	38.3.2. PROVIDE WEATHER RESISTANT GFI RECEPTACLES AS INDICATED BY SYMBOL ON DRAWINGS MOUNTED WITHIN CAST GASKETED WEATHERPROOF WHILE "IN-USE". NON-METALLIC COVERS NOT ACCEPTABLE. 38.4. COVER PLATES: 38.4.1. COVER PLATES SHALL BE SMOOTH THERMOSET PLASTIC IN COLOR AS SELECTED BY ARCHITECT. 38.4.2. SEE IDENTIFICATION REQUIREMENTS OF THESE SPECIFICATIONS. 38.4.3. SURFACE MOUNTED OUTLET BOXES - GALVANIZED STEEL SURFACE COVER WITH ROUNDED EDGES DESIGNED TO FIT FLUSH WITH OUTLET BOX.
7.1. ALL MATERIAL AND EQUIPMENT SHALL BE NEW AND OF THE QUALITY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE, AND SHALL BE STANDARD PRODUCT OF REPUTABLE MANUFACTURERS. EACH MAJOR COMPONENT OF EQUIPMENT SHALL HAVE THE MANUFACTURERS NAME, CATALOG NUMBER, AND CAPACITY OR RATING ON A NAMEPLATE, SECURELY AFFIXED ON THE EQUIPMENT IN A CONSPICUOUS PLACE.	22.2.4. THIS WORK SHALL INCLUDE BUT IS NOT LIMITED TO, CUTTING, PATCHING, AND REFINISHING AND ALL NECESSARY AND REQUIRED TO LEAVE EXISTING BUILDING IN ACCEPTABLE CONDITION.	25. CONDUIT 25.1. PROVIDE A COMPLETE CONDUIT SYSTEM AS REQUIRED TO PROVIDE CIRCUITING AND SWITCH ARRANGEMENTS AS SHOWN ON THE PLANS. 25.2. CONDUIT SIZES SHALL BE AS REQUIRED BY CODE. 25.3. CONDUITS SHALL BE CONCEALED EXCEPT IN MECHANICAL OR STORAGE ROOMS. ANY EXCEPTIONS ARE NOTED ON THE DRAWINGS. 25.4. CONDUITS EXPOSED TO THE EXTERIOR SHALL BE RIGID HEAVY WALL GALVANIZED STEEL OR I.M.C. ALL CONDUIT IN CONCRETE OR UNDERGROUND SHALL BE RIGID STEEL, I.M.C., OR SCHEDULE 40 PVC CONTAINING A GREEN GROUND WIRE SIZED PER CODE. 25.5. FLEXIBLE METAL CONDUIT SHALL BE 1/2" MINIMUM NOMINAL TRADE SIZE. LENGTH SHALL NOT EXCEED 24' FOR CONNECTION TO MOTORIZED EQUIPMENT. GROUNDED LIQUID TIGHT WHERE EXPOSED TO WATER. ADD GREEN GROUND WIRE TO JUMP FLEXIBLE CONDUIT FOR ALL MOTORS. FLEXIBLE METAL CONDUIT MAY ONLY BE USED FOR FINAL CONNECTION TO MOTORS AND LIGHTING FIXTURES ABOVE SUSPENDED CEILINGS.	37. IDENTIFICATION 37.1. GENERAL: 37.1.1. MATERIALS AND EQUIPMENT INSTALLED UNDER THIS SECTION SHALL BE CLEARLY IDENTIFIED AS LISTED BELOW. 37.1.2. LOCATE IDENTIFICATION CONSPICUOUSLY. 37.1.3. TERMINOLOGY IS TO BE APPROVED BY ARCHITECT. 37.1.4. SEE PLANS FOR ANY ADDITIONAL ITEMS TO BE IDENTIFIED. 37.1.5. LOADS SUCH AS MOTORS SHALL BE DESCRIBED BY FUNCTION RATHER THAN BY THE SYSTEM OR BY ARBITRARY NUMBER AS SHOWN ON ELECTRICAL PLANS. 37.1.6. USE ABBREVIATIONS SPARINGLY. 37.2. LAMINATED BAKELITE PLATES: ENGRAVED PLASTIC NAMEPLATE SHALL BE SECURELY FASTENED TO THE FOLLOWING EQUIPMENT, SIZE 1" X 4" WITH 3/8" HIGH LETTERS, UNLESS SPACE AVAILABLE DICTATES DIFFERENTLY. 37.2.1. EACH PANELBOARD, CONTACTOR, TIME SWITCH, STARTER OR DISCONNECT SWITCH, LOCATE ON INSIDE COVER OF PANELS. 37.2.2. EACH FEEDER AT ALL ACCESSIBLE LOCATIONS. EACH END OF EMPTY CONDUIT RUNS TO INDICATE THE INTENDED USE OF THE CONDUIT AND THE LOCATION OF OPPOSITE END. USE ROOM NUMBERS THAT ARE PERMANENTLY ASSIGNED.	38.3.2. PROVIDE WEATHER RESISTANT GFI RECEPTACLES AS INDICATED BY SYMBOL ON DRAWINGS MOUNTED WITHIN CAST GASKETED WEATHERPROOF WHILE "IN-USE". NON-METALLIC COVERS NOT ACCEPTABLE. 38.4. COVER PLATES: 38.4.1. COVER PLATES SHALL BE SMOOTH THERMOSET PLASTIC IN COLOR AS SELECTED BY ARCHITECT. 38.4.2. SEE IDENTIFICATION REQUIREMENTS OF THESE SPECIFICATIONS. 38.4.3. SURFACE MOUNTED OUTLET BOXES - GALVANIZED STEEL SURFACE COVER WITH ROUNDED EDGES DESIGNED TO FIT FLUSH WITH OUTLET BOX.
7.1. SUCH REQUESTS SHALL BE ACCOMPANIED BY THREE COPIES OF ALL NECESSARY ILLUSTRATIONS, CUTS, DRAWINGS AND DESCRIPTIONS OF MATERIAL PROPOSED FOR SUBSTITUTION AND SHALL FULLY DESCRIBE ALL POINTS IN WHICH IT DIFFERS FROM THE ARTICLES SPECIFIED. TWO COPIES WILL BE RETAINED BY THE ARCHITECT AND ONE COPY RETURNED TO THE CONTRACTOR WITH APPROVAL OR REVISIONS INDICATED THEREON.	22.2.4. THIS WORK SHALL INCLUDE BUT IS NOT LIMITED TO, CUTTING, PATCHING, AND REFINISHING AND ALL NECESSARY AND REQUIRED TO LEAVE EXISTING BUILDING IN ACCEPTABLE CONDITION.	26. COUPLINGS, CONNECTORS AND FITTINGS 26.1. USE STANDARD STEEL ITEMS TO PROPERLY ATTACH CONDUITS, OUTLET BOXES, PULL BOXES, CABINETS, ETC., TO PROVIDE A COMPLETE RACEWAY SYSTEM. USE COMPRESSION OR SET SCREWS TYPE FITTINGS. ALL CONNECTORS SHALL HAVE INSULATED THREADS, IDENTIFICATION TYPE, DIECAST, AND PUSH-ON TYPE FITTINGS ARE NOT ACCEPTABLE. BUSHINGS FOR RIGID H.W. CONDUIT SHALL BE REINFORCED INSULATED TYPE USED WITH DOUBLE LOCKNUTS.	38.3.2. PROVIDE WEATHER RESISTANT GFI RECEPTACLES AS INDICATED BY SYMBOL ON DRAWINGS MOUNTED WITHIN CAST GASKETED WEATHERPROOF WHILE "IN-USE". NON-METALLIC COVERS NOT ACCEPTABLE. 38.4. COVER PLATES: 38.4.1. COVER PLATES SHALL BE SMOOTH THERMOSET PLASTIC IN COLOR AS SELECTED BY ARCHITECT. 38.4.2. SEE IDENTIFICATION REQUIREMENTS OF THESE SPECIFICATIONS. 38.4.3. SURFACE MOUNTED OUTLET BOXES - GALVANIZED STEEL SURFACE COVER WITH ROUNDED EDGES DESIGNED TO FIT FLUSH WITH OUTLET BOX.	38.3.2. PROVIDE WEATHER RESISTANT GFI RECEPTACLES AS INDICATED BY SYMBOL ON DRAWINGS MOUNTED WITHIN CAST GASKETED WEATHERPROOF WHILE "IN-USE". NON-METALLIC COVERS NOT ACCEPTABLE. 38.4. COVER PLATES: 38.4.1. COVER PLATES SHALL BE SMOOTH THERMOSET PLASTIC IN COLOR AS SELECTED BY ARCHITECT. 38.4.2. SEE IDENTIFICATION REQUIREMENTS OF THESE SPECIFICATIONS. 38.4.3. SURFACE MOUNTED OUTLET BOXES - GALVANIZED STEEL SURFACE COVER WITH ROUNDED EDGES DESIGNED TO FIT FLUSH WITH OUTLET BOX.
8.1. THE ELECTRICAL CONTRACTOR WILL BE HELD RIGIDLY RESPONSIBLE FOR ALL DAMAGES TO THE WORK OF HIS OWN OR ANY OTHER TRADE RESULTING FROM THE EXECUTION OF HIS WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY PROTECT HIS WORK AT ALL TIMES. ALL DAMAGES RESULTING FROM HIS OPERATIONS SHALL BE REPAIRED OR THE DAMAGED PORTIONS REPLACED BY THE PARTY ORIGINALLY PERFORMING THE WORK, (TO THE ENTIRE SATISFACTION OF THE ARCHITECT), AND ALL COST THEREOF SHALL BE BORNE BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.	22.2.4. THIS WORK SHALL INCLUDE BUT IS NOT LIMITED TO, CUTTING, PATCHING, AND REFINISHING AND ALL NECESSARY AND REQUIRED TO LEAVE EXISTING BUILDING IN ACCEPTABLE CONDITION.	27. OUTLET BOXES 27.1. PROVIDE OUTLET BOXES BY APPLETON, STEEL CITY, OR EQUAL AS REQUIRED TO ACCOMMODATE THE DEVICE INDICATED BY SYMBOL ON THE DRAWINGS, SIZED IN ACCORDANCE WITH CODE, WITH THE FOLLOWING MINIMUM REQUIREMENTS. 27.2. OUTLET BOXES SHALL BE DIE FORMED, GALVANIZED AND SECURELY FASTENED IN PLACE PLUMB AND LEVEL WITH ADJACENT CONSTRUCTION NOT DEPENDENT UPON CONDUIT FOR SUPPORT. 27.3. MULTI-GANG DIE FORMED BOXES SHALL BE PROVIDED FOR ALL DEVICES INDICATED ADJACENT TO ONE ANOTHER ON THE PLANS.	39. LOCATIONS OF OUTLETS AND WIRING DEVICES 39.1. WIRING DEVICES: 39.1.1. THE APPROXIMATE LOCATION OF WIRING DEVICES ARE INDICATED ON THE DRAWINGS, THE SPECIFIC LOCATIONS SHALL BE DETERMINED IN ACCORDANCE WITH "LOCATION OF OUTLETS" OF THESE SPECIFICATIONS AND AS FOLLOWS. 39.1.2. THIS SECTION IS REFERRED TO EQUIPMENT PLANS, EQUIPMENT SHOP DRAWINGS, ELEVATION DRAWINGS AND OTHER DETAIL OR DIMENSIONAL DRAWINGS, AND HE SHALL CONSULT WITH THE ARCHITECT BEFORE INSTALLATION OF OUTLET BOXES FOR WIRING DEVICES OR BEFORE PROCEEDING WITH ANY WORK DEPENDENT UPON THIS INFORMATION. 39.1.3. GENERALLY, WIRING DEVICES SHALL BE LOCATED AS FOLLOWS: 39.1.3.1. WALL RECEPTACLES SHALL GENERALLY BE LOCATED 18" ABOVE THE FINISHED FLOOR TO THE BOTTOM OF THE BOX AND 6" ABOVE SURFACE OF BUILT-IN COUNTERS AND TABLES WHERE SAME ABUTS WALL AND 4" ABOVE BACKSPASHES IF COUNTERS ARE SO EQUIPPED. 39.1.3.2. SPECIAL PURPOSE RECEPTACLES SHALL BE LOCATED AS REQUIRED BY EQUIPMENT SERVED. 39.1.3.3. SWITCHES SHALL BE LOCATED 48" ABOVE FINISHED FLOOR TO THE TOP OF THE BOX ON LATCH SIDE OF DOOR OPENING WITH EDGE OF PLATE NOT MORE THAN 12" FROM DOOR FRAME, EXCEPT AS NOTED ON THE DRAWINGS.	39.1.1. THE APPROXIMATE LOCATION OF WIRING DEVICES ARE INDICATED ON THE DRAWINGS, THE SPECIFIC LOCATIONS SHALL BE DETERMINED IN ACCORDANCE WITH "LOCATION OF OUTLETS" OF THESE SPECIFICATIONS AND AS FOLLOWS. 39.1.2. THIS SECTION IS REFERRED TO EQUIPMENT PLANS, EQUIPMENT SHOP DRAWINGS, ELEVATION DRAWINGS AND OTHER DETAIL OR DIMENSIONAL DRAWINGS, AND HE SHALL CONSULT WITH THE ARCHITECT BEFORE INSTALLATION OF OUTLET BOXES FOR WIRING DEVICES OR BEFORE PROCEEDING WITH ANY WORK DEPENDENT UPON THIS INFORMATION. 39.1.3. GENERALLY, WIRING DEVICES SHALL BE LOCATED AS FOLLOWS: 39.1.3.1. WALL RECEPTACLES SHALL GENERALLY BE LOCATED 18" ABOVE THE FINISHED FLOOR TO THE BOTTOM OF THE BOX AND 6" ABOVE SURFACE OF BUILT-IN COUNTERS AND TABLES WHERE SAME ABUTS WALL AND 4" ABOVE BACKSPASHES IF COUNTERS ARE SO EQUIPPED. 39.1.3.2. SPECIAL PURPOSE RECEPTACLES SHALL BE LOCATED AS REQUIRED BY EQUIPMENT SERVED. 39.1.3.3. SWITCHES SHALL BE LOCATED 48" ABOVE FINISHED FLOOR TO THE TOP OF THE BOX ON LATCH SIDE OF DOOR OPENING WITH EDGE OF PLATE NOT MORE THAN 12" FROM DOOR FRAME, EXCEPT AS NOTED ON THE DRAWINGS.
9.1. THIS CONTRACTOR SHALL COMPLETELY COOPERATE WITH ALL OTHER TRADES IN THE MATTER OF PLANNING AND EXECUTING OF THE WORK. EVERY REASONABLE EFFORT SHALL BE MADE TO PREVENT CONFLICT AND INTERFERENCES AS TO SPACE REQUIREMENTS, DIMENSIONS, LOCATIONS, OPENINGS, SLEEVES OR OTHER MATTERS WHICH TEND TO DELAY OR OBSTRUCT THE WORK OF ANY TRADE.	22.2.4. THIS WORK SHALL INCLUDE BUT IS NOT LIMITED TO, CUTTING, PATCHING, AND REFINISHING AND ALL NECESSARY AND REQUIRED TO LEAVE EXISTING BUILDING IN ACCEPTABLE CONDITION.	28. PULL BOXES AND JUNCTION BOXES 28.1. PROVIDE AS REQUIRED BY CODE, OF CODE GAUGE STEEL IN SIZES AS REQUIRED BY THE CODE. COVERS SHALL BE OF THE SAME MATERIAL FASTENED WITH BRASS MACHINE SCREWS. BOXES AND COVERS SHALL HAVE GALVANIZED FINISH AND THEY SHALL BE SECURELY FASTENED TO STRUCTURAL MEMBERS.	40. RECORD DOCUMENTS 40.1. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AS-BUILT RED-LINE DRAWINGS THROUGHOUT CONSTRUCTION TO DOCUMENT MODIFICATIONS MADE TO THE DESIGN INTENT REFLECTING INSTALLED CONDITIONS. 40.2. CONTRACTOR SHALL PROVIDE COLOR COPIES TO SCALE OF AS-BUILT DRAWINGS WITH DIGITAL RECORD DRAWINGS TO THE ARCHITECT AND ENGINEER AT SUBSTANTIAL COMPLETION. DIGITAL RECORD DRAWINGS SHALL BE PROVIDED IN AUTOCAD 2011 FILE FORMAT. 40.3. CONTRACTOR SHALL ASSEMBLE DOCUMENTATION, INCLUDING BUT NOT LIMITED TO, APPROVED SUBMITTALS, MAINTENANCE MANUALS, INSTALLATION MANUALS, WARRANTIES, AND WIRING DIAGRAMS FOR THE SYSTEMS INSTALLED TO COMPLETE AN OPERATIONS AND MAINTENANCE MANUAL. THE OPERATIONS AND MAINTENANCE MANUAL SHALL BE ASSEMBLED IN A THREE-RING HARD COVER BINDER, TABBED BY SYSTEM FOR EASY USE. CONTRACTOR SHALL PROVIDE ONE COPY TO THE OWNER, ONE COPY TO THE ARCHITECT, AND ONE COPY TO THE ENGINEER. IT IS THE OPTION OF EACH RECIPIENT TO BE PROVIDED HARD COPY OR DIGITAL COPY.	39.1.1. THE APPROXIMATE LOCATION OF WIRING DEVICES ARE INDICATED ON THE DRAWINGS, THE SPECIFIC LOCATIONS SHALL BE DETERMINED IN ACCORDANCE WITH "LOCATION OF OUTLETS" OF THESE SPECIFICATIONS AND AS FOLLOWS. 39.1.2. THIS SECTION IS REFERRED TO EQUIPMENT PLANS, EQUIPMENT SHOP DRAWINGS, ELEVATION DRAWINGS AND OTHER DETAIL OR DIMENSIONAL DRAWINGS, AND HE SHALL CONSULT WITH THE ARCHITECT BEFORE INSTALLATION OF OUTLET BOXES FOR WIRING DEVICES OR BEFORE PROCEEDING WITH ANY WORK DEPENDENT UPON THIS INFORMATION. 39.1.3. GENERALLY, WIRING DEVICES SHALL BE LOCATED AS FOLLOWS: 39.1.3.1. WALL RECEPTACLES SHALL GENERALLY BE LOCATED 18" ABOVE THE FINISHED FLOOR TO THE BOTTOM OF THE BOX AND 6" ABOVE SURFACE OF BUILT-IN COUNTERS AND TABLES WHERE SAME ABUTS WALL AND 4" ABOVE BACKSPASHES IF COUNTERS ARE SO EQUIPPED. 39.1.3.2. SPECIAL PURPOSE RECEPTACLES SHALL BE LOCATED AS REQUIRED BY EQUIPMENT SERVED. 39.1.3.3. SWITCHES SHALL BE LOCATED 48" ABOVE FINISHED FLOOR TO THE TOP OF THE BOX ON LATCH SIDE OF DOOR OPENING WITH EDGE OF PLATE NOT MORE THAN 12" FROM DOOR FRAME, EXCEPT AS NOTED ON THE DRAWINGS.
10.1. SHOULD THE CONTRACTOR FAIL TO PROVIDE MATERIALS, TEMPLATES, ETC. OR OTHER NECESSARY INFORMATION CAUSING DELAY OR EXPENSE TO ANOTHER PARTY, HE SHALL PAY THE ACTUAL AMOUNT OF THE DAMAGES TO THE PARTY WHO SUSTAINED THE LOSS.	22.2.4. THIS WORK SHALL INCLUDE BUT IS NOT LIMITED TO, CUTTING, PATCHING, AND REFINISHING AND ALL NECESSARY AND REQUIRED TO LEAVE EXISTING BUILDING IN ACCEPTABLE CONDITION.	29. CONDUCTORS 29.1. CONDUCTORS SHALL BE NEW SOFT DRAWN COPPER. NO. 8 AND LARGER SHALL BE STRANDED; NO. 12 SHALL BE MINIMUM SIZE UNLESS OTHERWISE INDICATED, WITH 600 VOLT INSULATION, COLOR-CODED AS REQUIRED BY CODE. WIRE MUST BE DELIVERED TO JOB SITE IN ORIGINAL CARTONS. 29.2. WIRE AND CABLE FOR GENERAL INTERIOR USE SHALL HAVE 600 VOLT INSULATION, SIZES SMALLER THAN NO. 8 SHALL COMPLY WITH CODE FOR TYPE THHN/THWN, SIZE NO. 8 AND LARGER SHALL COMPLY WITH CODE FOR TYPE THW.	41. TRAINING 41.1. CONTRACTOR SHALL PROVIDE TRAINING ON THE OPERATION AND MAINTENANCE REQUIRED OF EACH SYSTEM INSTALLED. TRAINING PROVIDED SHALL NOT BE LESS THAN FOUR HOURS FOR EACH SYSTEM, AND SHALL BE SCHEDULED AFTER SUBSTANTIAL COMPLETION. INDIVIDUAL RESPONSIBLE FOR TRAINING SHALL ALLOW FOR A MINIMUM OF TWO WEEKS NOTICE AND SHALL PROVIDE AN AGENDA.	41.1. CONTRACTOR SHALL PROVIDE TRAINING ON THE OPERATION AND MAINTENANCE REQUIRED OF EACH SYSTEM INSTALLED. TRAINING PROVIDED SHALL NOT BE LESS THAN FOUR HOURS FOR EACH SYSTEM, AND SHALL BE SCHEDULED AFTER SUBSTANTIAL COMPLETION. INDIVIDUAL RESPONSIBLE FOR TRAINING SHALL ALLOW FOR A MINIMUM OF TWO WEEKS NOTICE AND SHALL PROVIDE AN AGENDA.
11.1. SHOULD ANY CHANGE IN DRAWINGS OR SPECIFICATIONS BE REQUIRED TO COMPLY WITH LOCAL REGULATIONS AND/OR FIELD CONDITIONS, THE CONTRACTOR SHALL REFER SAME TO ARCHITECT FOR APPROVAL BEFORE ANY WORK WHICH DEVIATES FROM THE ORIGINAL REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS IS STARTED. IN THE EVENT OF DISAGREEMENTS AS TO THE NECESSITY OF SUCH CHANGES, THE DECISION OF THE ARCHITECT SHALL BE FINAL.	22.2.4. THIS WORK SHALL INCLUDE BUT IS NOT LIMITED TO, CUTTING, PATCHING, AND REFINISHING AND ALL NECESSARY AND REQUIRED TO LEAVE EXISTING BUILDING IN ACCEPTABLE CONDITION.	30. WIRE JOINTS, SPLICES AND CONNECTORS 30.1. BRANCH LIGHTING CIRCUITS NO. 10 AND SMALLER SHALL BE SCOTCH LOCK TYPE H SPRING COMPRESSION CONNECTOR AS MANUFACTURED BY MINNESOTA MINING AND MANUFACTURING CO. OR PIGGY PIGTALS AS MANUFACTURED BY THOMAS AND BETTS MANUFACTURING CO.	42. IDENTIFICATION 42.1. GENERAL: 42.1.1. MATERIALS AND EQUIPMENT INSTALLED UNDER THIS SECTION SHALL BE CLEARLY IDENTIFIED AS LISTED BELOW. 42.1.2. LOCATE IDENTIFICATION CONSPICUOUSLY. 42.1.3. TERMINOLOGY IS TO BE APPROVED BY ARCHITECT. 42.1.4. SEE PLANS FOR ANY ADDITIONAL ITEMS TO BE IDENTIFIED. 42.1.5. LOADS SUCH AS MOTORS SHALL BE DESCRIBED BY FUNCTION RATHER THAN BY THE SYSTEM OR BY ARBITRARY NUMBER AS SHOWN ON ELECTRICAL PLANS. 42.1.6. USE ABBREVIATIONS SPARINGLY. 42.2. LAMINATED BAKELITE PLATES: ENGRAVED PLASTIC NAMEPLATE SHALL BE SECURELY FASTENED TO THE FOLLOWING EQUIPMENT, SIZE 1" X 4" WITH 3/8" HIGH LETTERS, UNLESS SPACE AVAILABLE DICTATES DIFFERENTLY. 42.2.1. EACH PANELBOARD, CONTACTOR, TIME SWITCH, STARTER OR DISCONNECT SWITCH, LOCATE ON INSIDE COVER OF PANELS. 42.2.2. EACH FEEDER AT ALL ACCESSIBLE LOCATIONS. EACH END OF EMPTY CONDUIT RUNS TO INDICATE THE INTENDED USE OF THE CONDUIT AND THE LOCATION OF OPPOSITE END. USE ROOM NUMBERS THAT ARE PERMANENTLY ASSIGNED.	42.1. GENERAL: 42.1.1. MATERIALS AND EQUIPMENT INSTALLED UNDER THIS SECTION SHALL BE CLEARLY IDENTIFIED AS LISTED BELOW. 42.1.2. LOCATE IDENTIFICATION CONSPICUOUSLY. 42.1.3. TERMINOLOGY IS TO BE APPROVED BY ARCHITECT. 42.1.4. SEE PLANS FOR ANY ADDITIONAL ITEMS TO BE IDENTIFIED. 42.1.5. LOADS SUCH AS MOTORS SHALL BE DESCRIBED BY FUNCTION RATHER THAN BY THE SYSTEM OR BY ARBITRARY NUMBER AS SHOWN ON ELECTRICAL PLANS. 42.1.6. USE ABBREVIATIONS SPARINGLY. 42.2. LAMINATED BAKELITE PLATES: ENGRAVED PLASTIC NAMEPLATE SHALL BE SECURELY FASTENED TO THE FOLLOWING EQUIPMENT, SIZE 1" X 4" WITH 3/8" HIGH LETTERS, UNLESS SPACE AVAILABLE DICTATES DIFFERENTLY. 42.2.1. EACH PANELBOARD, CONTACTOR, TIME SWITCH, STARTER OR DISCONNECT SWITCH, LOCATE ON INSIDE COVER OF PANELS. 42.2.2. EACH FEEDER AT ALL ACCESSIBLE LOCATIONS. EACH END OF EMPTY CONDUIT RUNS TO INDICATE THE INTENDED USE OF THE CONDUIT AND THE LOCATION OF OPPOSITE END. USE ROOM NUMBERS THAT ARE PERMANENTLY ASSIGNED.
12.1. AS NECESSARY AND WITH APPROVAL TO PERMIT THE INSTALLATION OF CONDUIT OR ANY PART OF THE WORK UNDER THIS BRANCH. ANY COST CAUSED BY DEFECTIVE OR ILL-TIMED WORK SHALL BE BY THE PARTY RESPONSIBLE THEREFOR. PATCHING OF HOLES, OPENINGS, ETC. RESULTING FROM THE WORK OF THIS BRANCH SHALL BE FURNISHED BY THIS CONTRACTOR.	22.2.4. THIS WORK SHALL INCLUDE BUT IS NOT LIMITED TO, CUTTING, PATCHING, AND REFINISHING AND ALL NECESSARY AND REQUIRED TO LEAVE EXISTING BUILDING IN ACCEPTABLE CONDITION.	31. WIRE JOINTS, SPLICES AND CONNECTORS 31.1. BRANCH LIGHTING CIRCUITS NO. 10 AND SMALLER SHALL BE SCOTCH LOCK TYPE H SPRING COMPRESSION CONNECTOR AS MANUFACTURED BY MINNESOTA MINING AND MANUFACTURING CO. OR PIGGY PIGTALS AS MANUFACTURED BY THOMAS AND BETTS MANUFACTURING CO.	43. IDENTIFICATION 43.1. GENERAL: 43.1.1. MATERIALS AND EQUIPMENT INSTALLED UNDER THIS SECTION SHALL BE CLEARLY IDENTIFIED AS LISTED BELOW. 43.1.2. LOCATE IDENTIFICATION CONSPICUOUSLY. 43.1.3. TERMINOLOGY IS TO BE APPROVED BY ARCHITECT. 43.1.4. SEE PLANS FOR ANY ADDITIONAL ITEMS TO BE IDENTIFIED. 43.1.5. LOADS SUCH AS MOTORS SHALL BE DESCRIBED BY FUNCTION RATHER THAN BY THE SYSTEM OR BY ARBITRARY NUMBER AS SHOWN ON ELECTRICAL PLANS. 43.1.6. USE ABBREVIATIONS SPARINGLY. 43.2. LAMINATED BAKELITE PLATES: ENGRAVED PLASTIC NAMEPLATE SHALL BE SECURELY FASTENED TO THE FOLLOWING EQUIPMENT, SIZE 1" X 4" WITH 3/8" HIGH LETTERS, UNLESS SPACE AVAILABLE DICTATES DIFFERENTLY. 43.2.1. EACH PANELBOARD, CONTACTOR, TIME SWITCH, STARTER OR DISCONNECT SWITCH, LOCATE ON INSIDE COVER OF PANELS. 43.2.2. EACH FEEDER AT ALL ACCESSIBLE LOCATIONS. EACH END OF EMPTY CONDUIT RUNS TO INDICATE THE INTENDED USE OF THE CONDUIT AND THE LOCATION OF OPPOSITE END. USE ROOM NUMBERS THAT ARE PERMANENTLY ASSIGNED.	43.1. GENERAL: 43.1.1. MATERIALS AND EQUIPMENT INSTALLED UNDER THIS SECTION SHALL BE CLEARLY IDENTIFIED AS LISTED BELOW. 43.1.2. LOCATE IDENTIFICATION CONSPICUOUSLY. 43.1.3. TERMINOLOGY IS TO BE APPROVED BY ARCHITECT. 43.1.4. SEE PLANS FOR ANY ADDITIONAL ITEMS TO BE IDENTIFIED. 43.1.5. LOADS SUCH AS MOTORS SHALL BE DESCRIBED BY FUNCTION RATHER THAN BY THE SYSTEM OR BY ARBITRARY NUMBER AS SHOWN ON ELECTRICAL PLANS. 43.1.6. USE ABBREVIATIONS SPARINGLY. 43.2. LAMINATED BAKELITE PLATES: ENGRAVED PLASTIC NAMEPLATE SHALL BE SECURELY FASTENED TO THE FOLLOWING EQUIPMENT, SIZE 1" X 4" WITH 3/8" HIGH LETTER

PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	WSFU			DFU VALUE
				HW	CW	TOTAL	
DF-1	ELKAY	LK4408BFGRY	OUTDOOR, WALL MOUNTED 8-LEVEL DRINKING FOUNTAIN WITH BOTTLE FILLING STATION, HEAVY DUTY, STAINLESS STEEL, VANDAL RESISTANT, PUSH BUTTON ACTIVATED, GRAY FINISH.	-	0.25	0.25	0.5
FD-1	ZURN	Z415S	SQUARE CAST IRON FLOOR DRAIN, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS. POLISHED NICKLE BRONZE, HEEL-PROOF TOP, LIGHT DUTY STRAINER, HOSE BIBB IN CONCEALED, LOCKABLE BOX, NON-FREEZE, LOOSE KEY, AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER, CHROME FINISH.	-	-	-	4.0
HB-1	WOODFORD	B65	HOSE BIBB IN CONCEALED, LOCKABLE BOX, NON-FREEZE, LOOSE KEY, AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER, CHROME FINISH.	-	4.0	4.0	-
L-1	KOHLER	K-2031	WALL HUNG, WHITE, VITREOUS CHINA, ADA LAVATORY WITH OVERFLOW AND BACKSPASH. OVERALL DIMENSIONS: 20-3/4"X18-1/4"X12-7/8". FAUCET: CHICAGO FAUCETS 116.606 AB.1 BATTERY POWERED, SENSOR ACTIVATED, SINGLE HOLE WITH 0.5 GPM NON-AERATING LAMINAR FLOW, VANDAL PROOF. PROVIDE WITH KOHLER K-7129-A GRID DRAIN, P-TRAP, AND LOOSE KEY STOPS. PROVIDE "HANDY-SHIELD MAXX" INSULATION ON P-TRAP, WATER VALVES AND EXPOSED SUPPLY PIPING.	0.5	0.5	1.0	1.0
MB-1	MUSTEE	63M	FLOOR MOUNTED, MOLDED STONE MOP BASIN WITH OVERALL DIMENSIONS: 24"X24"X10". FAUCET: MUSTEE 63.300A HEAVY DUTY, CHROME PLATED BRASS WITH TOP REINFORCING BAR AND PAIL HOOK. PROVIDE WITH HOSE CONNECTION VACUUM BREAKER EQUAL TO WATTS 8FR. PROVIDE WITH MUSTEE 85.700 HOSE AND HOSE HOLDER AND MUSTEE 85.800 MOP HANGER.	2.0	2.0	3.0	3.0
UR-1	KOHLER	K-4991-ET	VITREOUS CHINA WALL-MOUNT ADA WASHOUT URINAL WITH 3/4" TOP SPUD. OVERALL DIMENSIONS: 26 7/8" X 18" X 14 1/8". FLUSHOMETER: SLOAN G2 8186 BATTERY POWERED, SENSOR ACTIVATED, 0.5 GPF. FIXTURE SUPPORT: JAY R. SMITH 0637.	-	2.0	2.0	2.0
WC-1	KOHLER	K-96057	VITREOUS CHINA, FLOOR MOUNT, SIPHON JET, ADA WATER CLOSET WITH 1-1/2" TOP SPUD. OVERALL DIMENSIONS: 21-7/8"X14-5/8"X16-5/8". FLUSHOMETER: SLOAN G2 8111 BATTERY POWERED, SENSOR ACTIVATED, 1.28 GPF.	-	6.5	6.5	6.0

NOTES: CONTRACTOR IS RESPONSIBLE FOR COORDINATING NECESSARY ELECTRICAL PROVISION WITH DIVISION 26 CONTRACTOR. DIVISION 22 CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE (24V) WIRING FOR ALL PLUMBING FIXTURES AND EQUIPMENT. PROVIDE ALL NECESSARY TRANSFORMERS TO ACCOMMODATE POWER SUPPLIES INDICATED ON ELECTRICAL DRAWINGS. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY POWER SUPPLY PROVISIONS BEYOND WHAT IS INDICATED ON THE ELECTRICAL DRAWINGS.

ABBREVIATIONS

AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
BOP	BOTTOM OF PIPE
CA	COMBUSTION AIR
CO	CLEANOUT
DN	DOWN
ET.*	EXPANSION TANK
EWC.*	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD.*	FLOOR DRAIN
GI.*	GREASE INTERCEPTOR
HB.*	HOSE BIBB
HWRP.*	HOT WATER RECIRCULATION PUMP
IWH.*	INSTANTANEOUS WATER HEATER
L.*	LAVATORY
MB.*	MOP BASIN
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OD.*	OVERFLOW DRAIN
RD.*	ROOF DRAIN
S.*	SINK
SH.*	SHOWER
SP.*	SUMP PUMP
SS.*	SERVICE SINK
ST.*	STORAGE TANK
STP.*	SOLAR THERMAL PANEL
UR.*	URINAL
VFD	VARIABLE FREQUENCY DRIVE
WC.*	WATER CLOSET
WCO	WALL CLEANOUT
WH.*	WATER HEATER
WWHP.*	WATER-TO-WATER HEAT PUMP
X.*	EXISTING
YCO	YARD CLEANOUT

PLUMBING PIPING LEGEND

	NEW PLUMBING EQUIPMENT		BALL VALVE
	EXISTING PLUMBING COMPONENT		BUTTERFLY VALVE
	DEMOLISHED PLUMBING COMPONENT		CHECK VALVE
	PLUMBING EQUIPMENT SERVICE AREA		CIRCUIT SETTER
	KEY NOTE		2-WAY ELECTRONIC CONTROL VALVE
	NEW DOMESTIC COLD WATER		3-WAY ELECTRONIC CONTROL VALVE
	EXISTING DOMESTIC COLD WATER		GATE VALVE
	NEW DOMESTIC HOT WATER		HOSEBIB/DRAIN VALVE
	EXISTING DOMESTIC HOT WATER		OS&Y VALVE
	NEW DOMESTIC HOT WATER RETURN		PLUG VALVE
	EXISTING DOMESTIC HOT WATER RETURN		PRESSURE & TEMPERATURE RELIEF VALVE
	NEW DOMESTIC TEMPERED WATER		PRESSURE REGULATING VALVE
	EXISTING DOMESTIC TEMPERED WATER		TRIPLE DUTY VALVE
	NEW FIRE PROTECTION - CHEMICAL PIPE		AIR VENT
	NEW FIRE PROTECTION - DRY PIPE		FLEX PIPE
	NEW FIRE PROTECTION - WET PIPE		FLOOR DRAIN / ROOF DRAIN
	EXISTING FIRE PROTECTION		P-T PLUG
	NEW IRRIGATION		PIPE BREAK
	EXISTING IRRIGATION		PIPE CAPPED END
	NEW SANITARY SEWER		PIPE CLEANOUT
	EXISTING SANITARY SEWER		PIPE ELBOW/TEE DOWN
	NEW SANITARY VENT		PIPE ELBOW/TEE UP
	EXISTING SANITARY VENT		CONNECT TO EXISTING
	NEW STORM OVERFLOW		PUMP
	EXISTING STORM OVERFLOW		REDUCER
	NEW STORM SEWER		STRAINER
	EXISTING STORM SEWER		UNION
	DEMOLISHED PIPING (ALL SYSTEMS)		FLOW GAUGE
	PLUMBING EQUIPMENT TAG ELECTRICALLY POWERED		FLOW SENSOR
	PLUMBING EQUIPMENT TAG NOT ELECTRICALLY POWERED		PRESSURE GAUGE
	PLUMBING EQUIPMENT TAG NOT ELECTRICALLY POWERED		PRESSURE SENSOR
			TEMPERATURE GAUGE
			TEMPERATURE SENSOR

GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL REQUIRED OFFSETS FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT TO CONFORM TO THE STRUCTURE, EQUIPMENT CONNECTIONS AND SHALL MAINTAIN APPROPRIATE CLEARANCES.
- ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, LOCAL CODES, FEDERAL AND STATE REGULATIONS, AND ALL REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE FULL EXTENT OF WORK AND PROJECT CONDITIONS. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.

PLUMBING SHEET INDEX

NUMBER	SHEET NAME
P0.1	PLUMBING NOTES, LEGEND, AND ABBREVIATIONS
P1.0	PLUMBING UNDERGROUND PLAN
P2.0	PLUMBING FLOOR PLAN
P3.0	PLUMBING ISOMETRICS

PUMPS

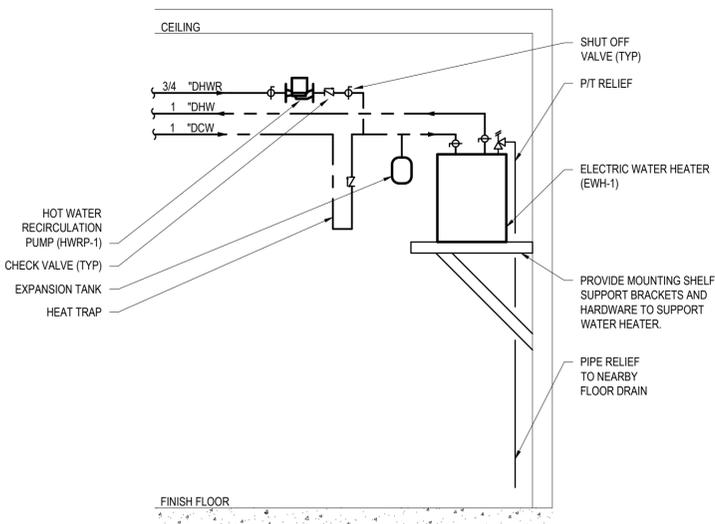
MARK	MANUFACT	MODEL	TYPE	SERVICE	GPM MIN.	HEAD FT WC	MOTOR (WATTS)	RPM	VOLTS	PHASE	REMARKS
HWRP-1	BELL & GOSSETT	NBF-12	INLINE	BRONZE	2	10	55	2,800	120	1	1.2

- PROVIDE WITH STARTER & DISCONNECT.
- PROVIDE WITH AQUASTAT & TIMER.

ELECTRIC WATER HEATER

MARK	MANUFACTURER	MODEL	GALLON CAPACITY	DATA			HEIGHT	DIAMETER	REMARKS
				KW	VOLT	PHASE			
EW-1	A.O. SMITH	DSE-20A-9	20	9	240	1	31.75"	22"	1.2

- INCLUDE TEMPERATURE CONTROL, PRESSURE RELIEF VALVE, DRAIN VALVE.
- SINGLE ELEMENT WATER HEATER
- PROVIDE WITH EXPANSION TANK EQUAL TO B&G PTA-5



1 ELECTRIC WATER HEATER DETAIL
N.T.S.

WATER CALCULATION WORKSHEET

INFORMATION NEEDED FOR WATER SERVICE SIZING		
1	Demand of building in water supply fixture units:	124.75 WSFU
1a	Demand of building in WSFU converted to Gallons per Minute:	75 GPM
2	Elevation difference from main or external pressure tank to building control valve:	8 FEET
3	Size of water meter (if applicable):	2
4	Developed length from main or external pressure tank to building control valve:	175 FEET
5	Low pressure at main in street or external pressure tank:	75 PSI
CALCULATE WATER SERVICE PRESSURE LOSS		
6	Low pressure at main in street or external pressure tank. (value of #5 above)	75 PSI
7	Determine pressure loss due to friction in 4 inch diameter water service. Water service piping is COPPER Pressure loss per 100 ft = 0.3 x 1.75	0.525 Subtotal 74.5 PSI
8	Determine pressure loss or gain due to elevation (multiply the value of #2 above by 0.434):	3.5 PSI
9	Available pressure after the bldg. control valve:	71.0 PSI
CALCULATE THE PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF "A")		
A = [B - (C + D + E + F + G)] / H x 100		
B	Available pressure after the bldg. control valve. (from #9 above):	71.0 PSI
C	Pressure loss of water meter (when meter is required):	3 PSI
D	Pressure required at controlling fixture (Controlling fixture is: WATER CLOSET)	35 PSI
E	Difference in elevation between building control valve and the controlling fixture in feet 1 x 0.434	0.4
F	Pressure loss due to water treatment devices and backflow preventers which serve the controlling fixture.	0 PSI
G	Pressure loss through tankless water heaters, combination boiler / hot water heaters, heat exchangers which serve the controlling fixture.	0 PSI
H	Developed length from building control valve to controlling fixture in feet 90 x 1.5	135 FT
A	Pressure available for uniform loss (psi/100' of pipe).	24.1 PSI / 100'

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Project Info. — 22005
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600 Labaree St
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Sheet Title
PLUMBING NOTES, LEGEND, AND ABBREVIATIONS

Drawn by	Checked by
KJW	CMH

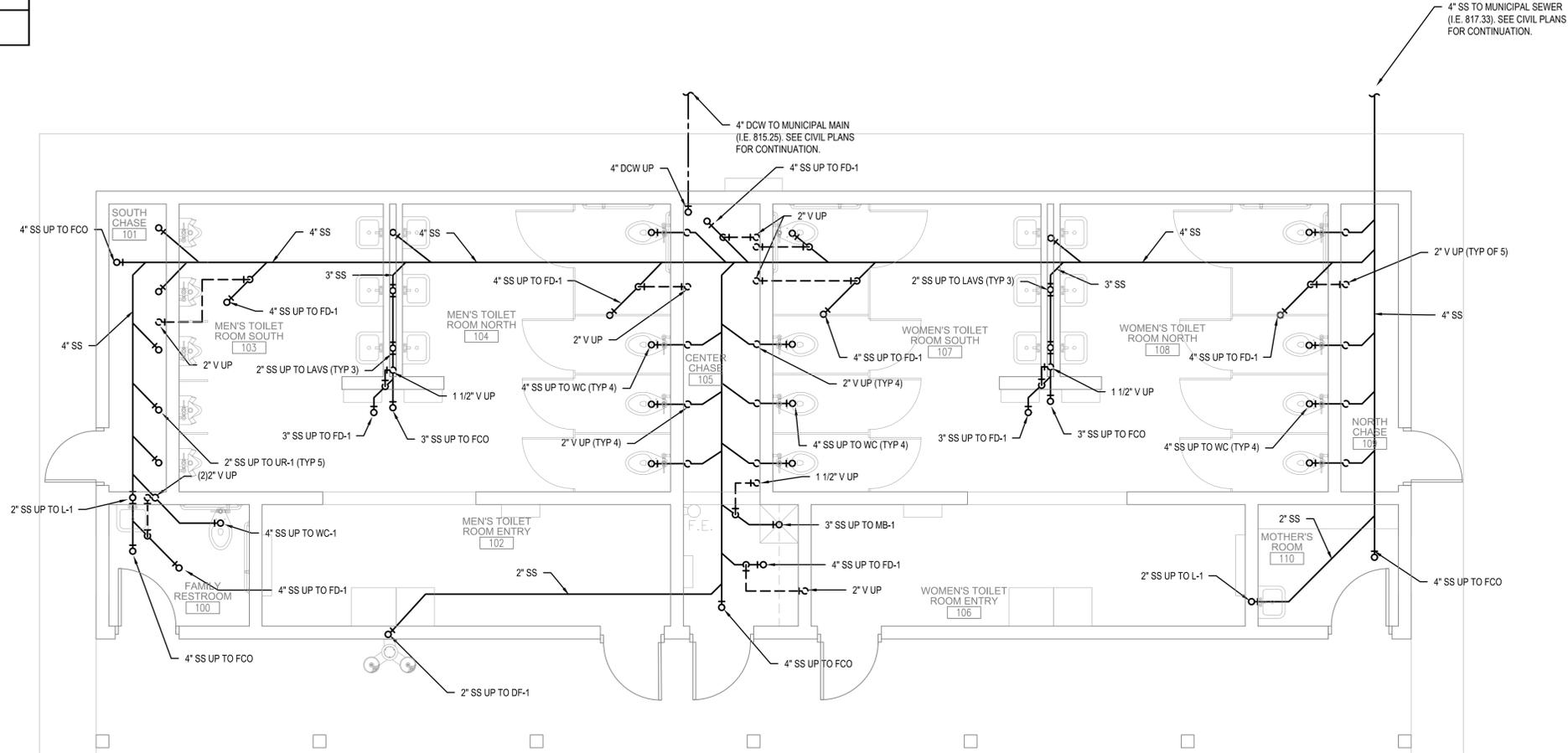
Revisions		
No.	Date	Description
	01.23.2024	Bid & Permit Set

2023-06-30 Bid & Permit Set



Sheet No.
P0.1

SANITARY PIPING SLOPE	
PIPE SIZE	SLOPE
< 2"	1/4" / 12"
> 2"	1/8" / 12"



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Sheet Title

PLUMBING UNDERGROUND PLAN

Drawn by	Checked by
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Revisions		
No.	Date	Description
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1 PLUMBING UNDERGROUND PLAN
 SCALE: 1/4" = 1'-0"



2023-06-30 Bid & Permit Set

Sheet No.
P1.0

KEY NOTES

1	PIPE 1" DCW, 1" DHW, 3/4" DHWR TO EWH-1. REFER TO DETAIL 1 ON SHEET P0.1
---	--

FIXTURE CONNECTIONS				
MARK	DCW	DHW	SS	V
DF-1	1/2"	-	1 1/2"	1 1/2"
HB-1	3/4"	-	-	-
L-1	1/2"	1/2"	2"	1 1/2"
MB-1	1/2"	1/2"	3"	1 1/2"
UR-1	3/4"	-	2"	1 1/2"
WC-1	1 1/2"	-	4"	2"

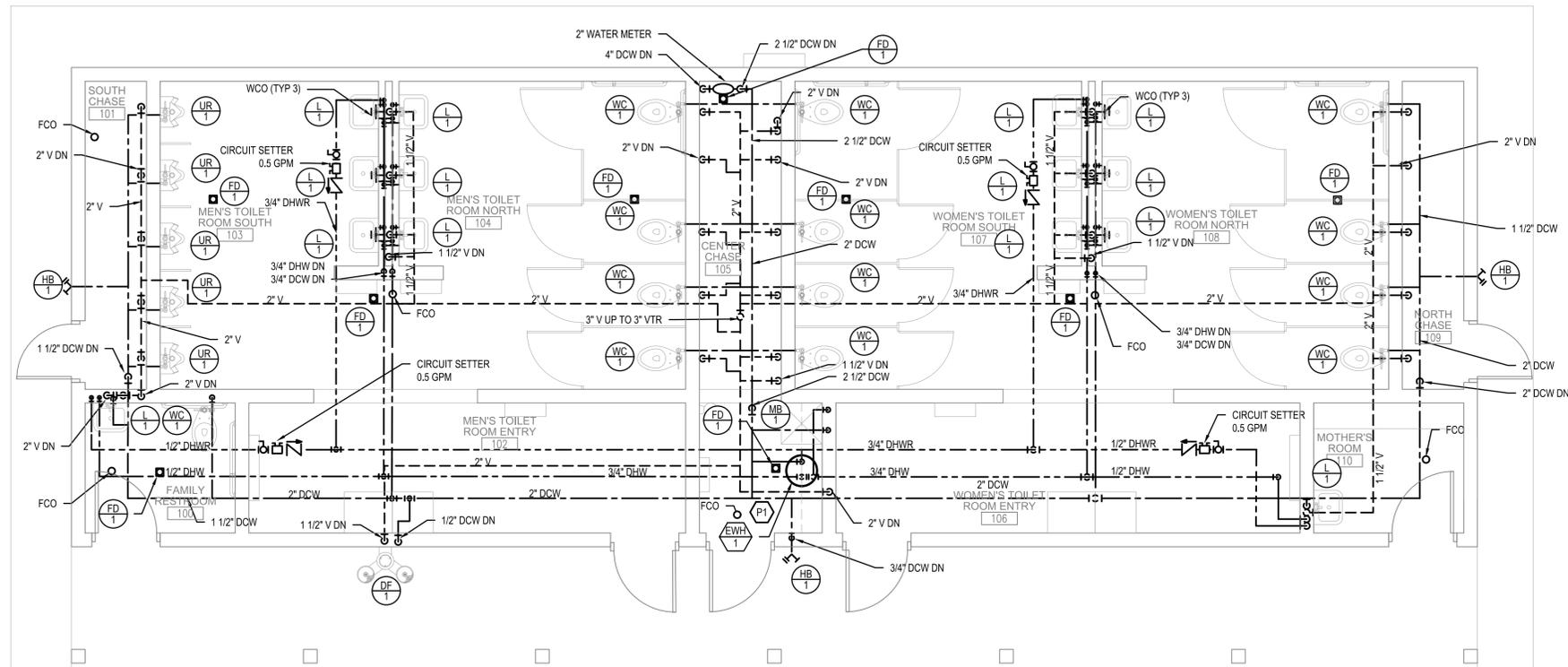
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Riverside Park Restrooms

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Sheet Title



PLUMBING FLOOR PLAN

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No.	Date	Description
	01.23.2024	Bid & Permit Set

1 PLUMBING FLOOR PLAN
SCALE: 1/4" = 1'-0"



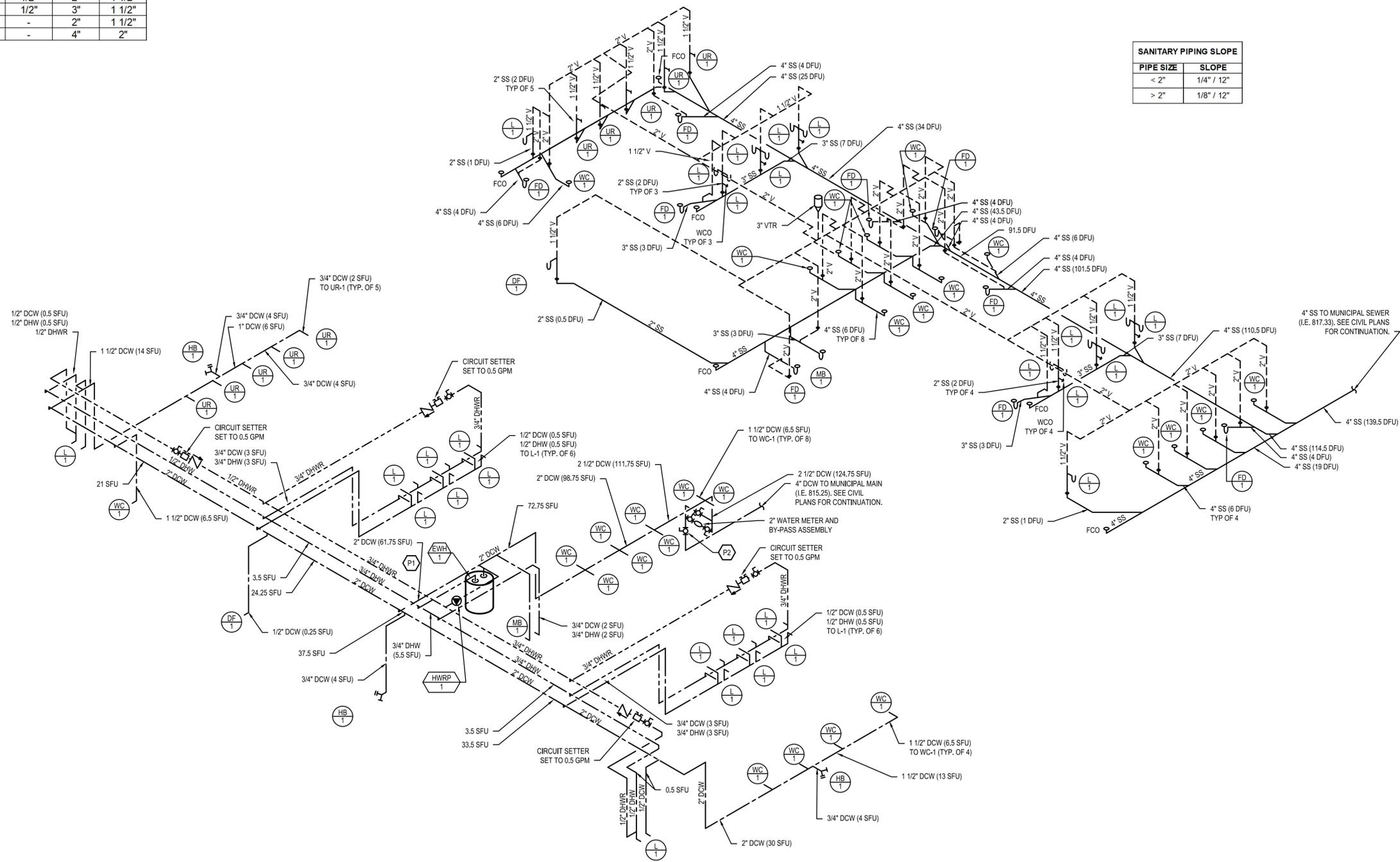
2023-06-30 Bid & Permit Set

Sheet No.
P2.0

FIXTURE CONNECTIONS				
MARK	DCW	DHW	SS	V
DF-1	1/2"	-	1 1/2"	1 1/2"
HB-1	3/4"	-	-	-
L-1	1/2"	1/2"	2"	1 1/2"
MB-1	1/2"	1/2"	3"	1 1/2"
UR-1	3/4"	-	2"	1 1/2"
WC-1	1 1/2"	-	4"	2"

KEY NOTES	
1	PIPE 1" DCW (9 SFU), 1" DHW (9 SFU), 3/4" DHWR TO EWH-1. REFER TO DETAIL 1 ON SHEET P0.1
2	PROVIDE BLOWOUT VALVE AT BUILDING WATER METER FOR ADEQUATE WINTERIZATION OF TO FACILITY.

SANITARY PIPING SLOPE	
PIPE SIZE	SLOPE
< 2"	1/4" / 12"
> 2"	1/8" / 12"



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Project Info. — 22005
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Sheet Title
PLUMBING ISOMETRICS

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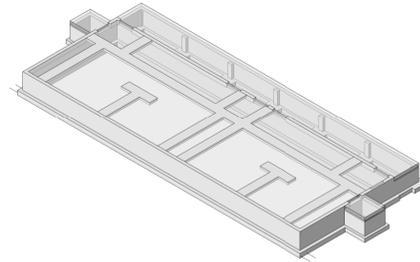
1 PLUMBING ISOMETRICS
N.T.S.



THIS BAR APPEARS 2" LONG ON FULL SIZE SHEETS.

2023-06-30 Bid & Permit Set

Sheet No.
P3.0



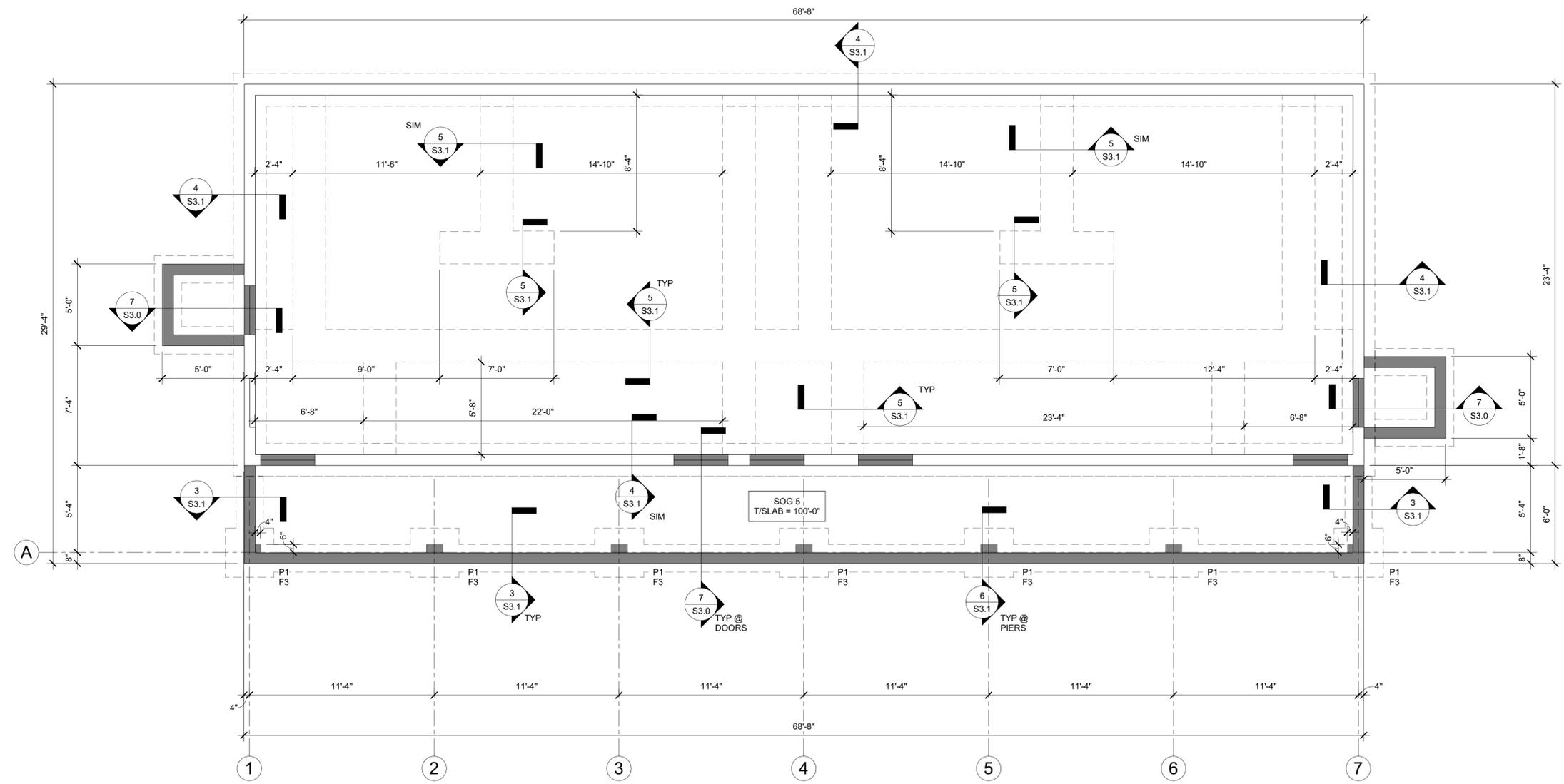
- FOUNDATION PLAN NOTES:**
- SEE SHEET S0.1 FOR GENERAL NOTES AND S0.2 FOR SCHEDULES.
 - SEE SHEET S3.0 FOR FOUNDATION WALL CONSTRUCTION JOINTS AND TYPICAL REINFORCING DETAILS.
 - TOP OF EXTERIOR FOOTING ELEVATION = 96'-0" UNO.
 - TOP OF INTERIOR FOOTING ELEVATION = 100'-0" UNO.
 - TOP OF PIER ELEVATION = 99'-4" UNO.
 - TOP OF FOUNDATION WALL ELEVATION = 100'-0" UNO.
 - SEE MECHANICAL DRAWINGS FOR HOUSEKEEPING PADS REQUIRED FOR MECHANICAL EQUIPMENT.
 - SEE ARCHITECTURAL DRAWINGS FOR DOOR OPENING SIZES AND LOCATIONS IN WALLS.



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Project Info. **22005**
RIVERSIDE PARK RESTROOMS
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Sheet Title
FOUNDATION PLAN



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1
S1.0 FOUNDATION PLAN
 SCALE: 1/4" = 1'-0"

CORE4engineering
 | Client-focused | Creative |
 | Collaborative | Communicative |
 12308 Corporate Pkwy, Suite 450
 Mequon, WI 53092 | 262.236.9372
 C4E Project #: 21325

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Sheet No.
S1.0

HIGH ROOF PLAN NOTES:
1. SEE SHEET S0.1 FOR GENERAL NOTES AND S0.2 FOR SCHEDULES.
2. SEE SHEET S4.0 FOR TYPICAL MASONRY SECTIONS AND DETAILS, INCLUDING TYPICAL WALL REINFORCING.
3. SEE SHEET S6.0 FOR TYPICAL WOOD SECTIONS AND DETAILS.
4. SEE ARCHITECTURAL DRAWINGS FOR TRUSS PROFILES, HEEL HEIGHTS, TRUSS BEARING ELEVATIONS AND ROOF SLOPES.
5. COORDINATE FINAL SIZE AND LOCATION OF OPENINGS, EQUIPMENT AND ROOF DRAINS WITH MECHANICAL AND PLUMBING CONTRACTORS.
6. ALL HEADERS AND BEAMS TO BE DROPPED UNO.
7. ALL WOOD STUD BEARING WALLS TO BE 2x6 SPF No.1/No.2 @ 16" OC.

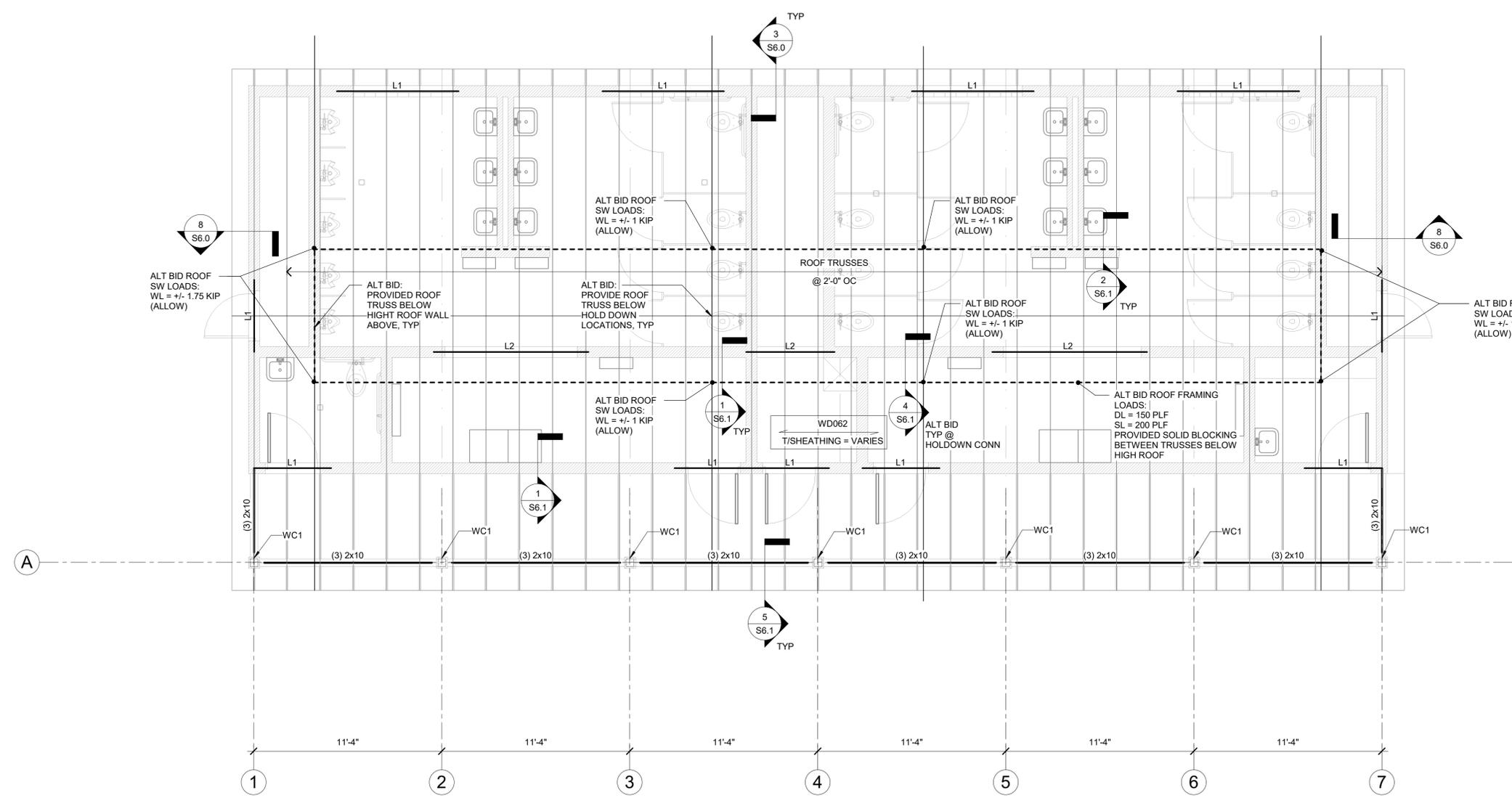
Project Info. **22005**
RIVERSIDE PARK RESTROOMS
New Construction
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Watertown, WI

Sheet Title
ROOF FRAMING PLAN

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Sheet No.
S1.1



1
S1.1 ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

2024-01-23 Bid & Permit Set

ROOF PLAN NOTES:
1. SEE SHEET S0.1 FOR GENERAL NOTES AND S0.2 FOR SCHEDULES.
2. SEE SHEET S4.0 FOR TYPICAL MASONRY SECTIONS AND DETAILS, INCLUDING TYPICAL WALL REINFORCING.
3. SEE SHEET S6.0 FOR TYPICAL WOOD SECTIONS AND DETAILS.
4. SEE ARCHITECTURAL DRAWINGS FOR TRUSS PROFILES, HEEL HEIGHTS, TRUSS BEARING ELEVATIONS AND ROOF SLOPES.
5. COORDINATE FINAL SIZE AND LOCATION OF OPENINGS, EQUIPMENT AND ROOF DRAINS WITH MECHANICAL AND PLUMBING CONTRACTORS.
6. PROVIDE L1 LINTEL FOR ALL LOUVER OPENINGS. COORDINATE WITH ARCH & MEP FOR LOCATIONS AND SIZES.

Project Info. **22005**

RIVERSIDE PARK RESTROOMS

New Construction

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Sheet Title

HIGH ROOF FRAMING PLAN

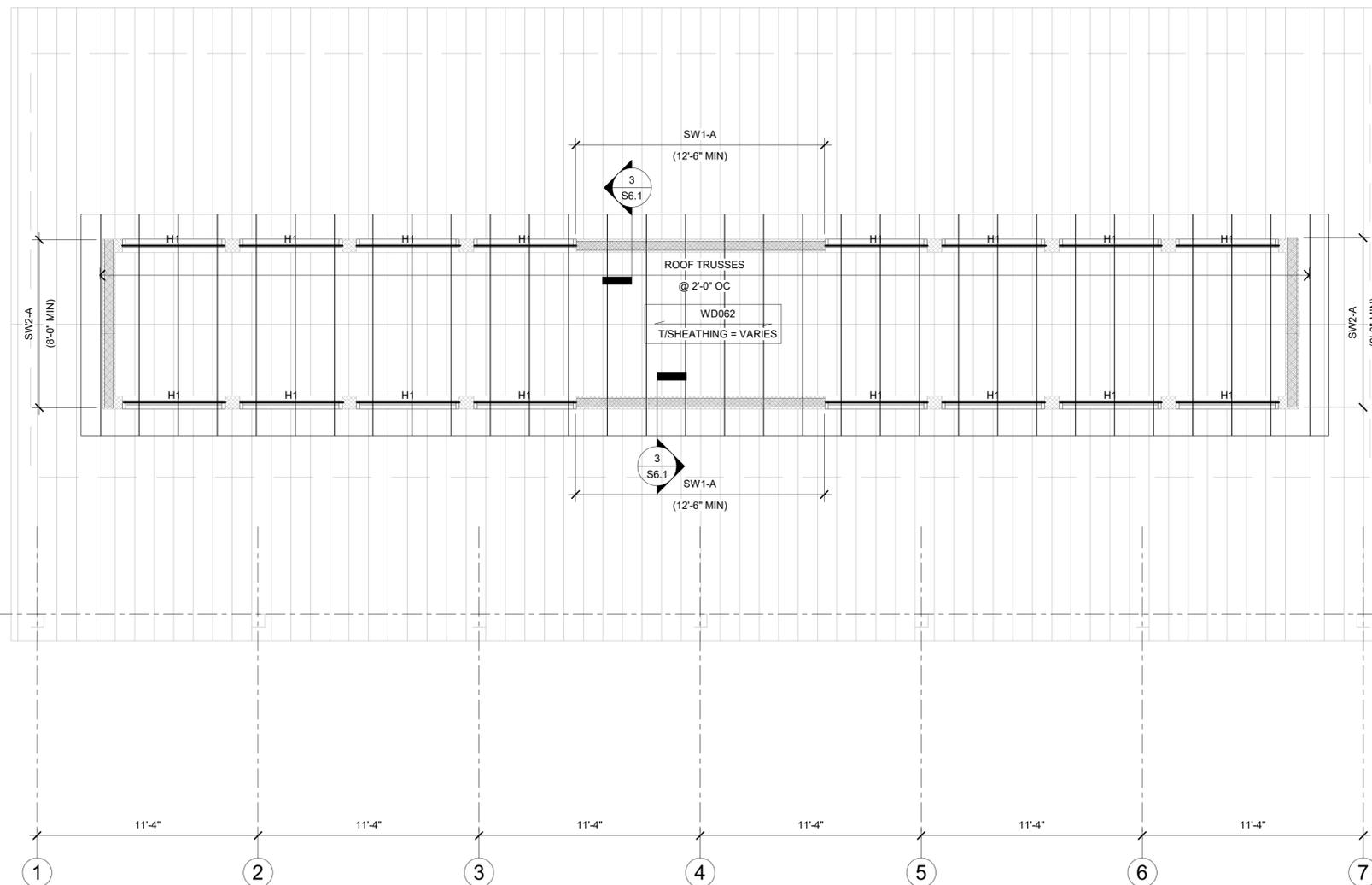
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	01.23.2024	Bid & Permit Set

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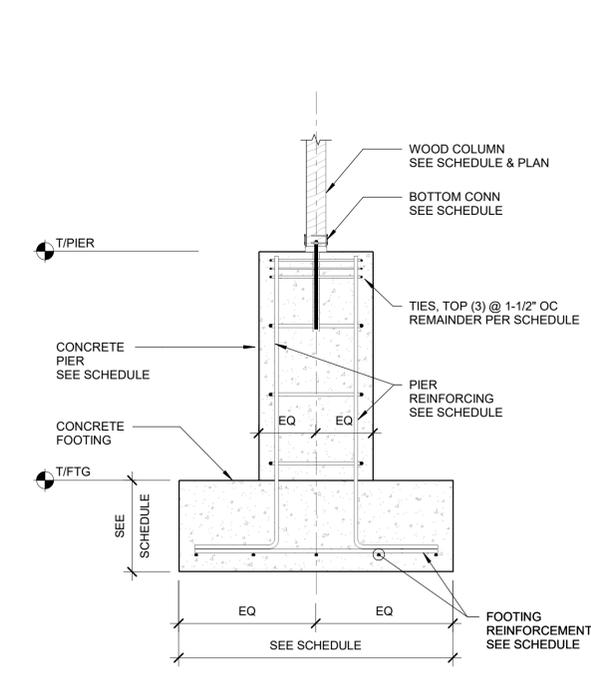
S1.2



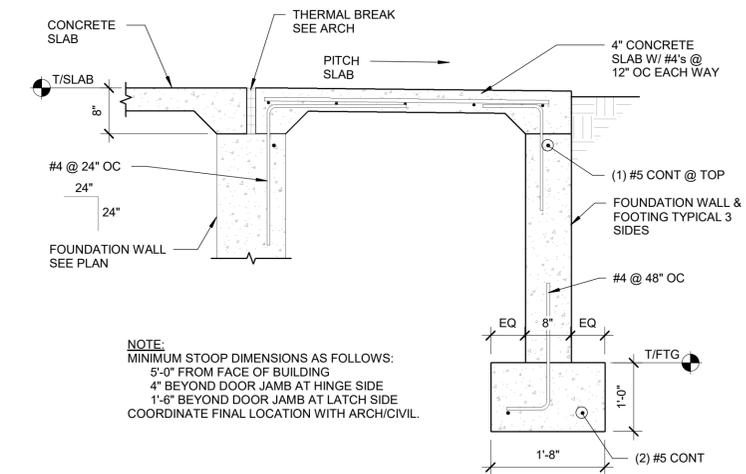
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S1.2 HIGH ROOF FRAMING PLAN - ALTERNATE BID
SCALE: 1/4" = 1'-0"

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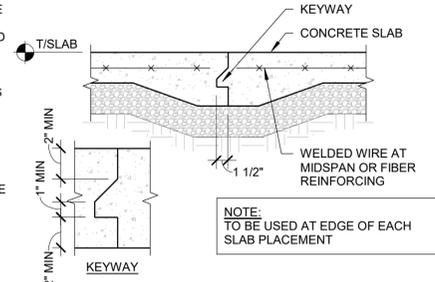
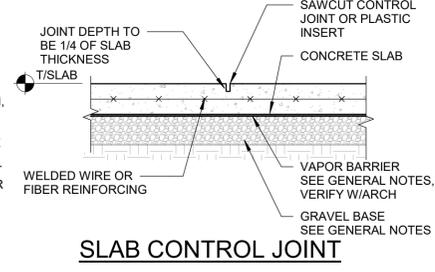
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No.	Date	Description
	01.23.2024	Bid & Permit Set



3 TYPICAL CONCRETE PIER DETAIL
SCALE: NTS



7 TYPICAL STOOP SECTION
SCALE: NTS



SLAB CONSTRUCTION JOINT

- SECTION 1: SLAB-ON-GRADE NOTES**
- SLAB-ON-GRADE CONSTRUCTION SHOULD CONFORM WITH THE RECOMMENDATIONS AND REQUIREMENTS SET FORTH IN THE LATEST RELEASE OF ACI 302 GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION.
 - REFER TO GEOTECHNICAL REPORT AND/OR ARCHITECTURAL DRAWINGS & SPECIFICATIONS FOR SUB-FLOOR DRAINAGE SYSTEM, SUBGRADE PREPARATION, MUD SLAB AND/OR VAPOR RETARDER REQUIREMENTS.
 - THE SUBGRADE SHALL BE FREE OF STANDING WATER AT THE TIME OF CONCRETE PLACEMENT.
 - REFER TO PLANS FOR SLAB THICKNESS ("T") AND REINFORCEMENT (WWF OR REINFORCEMENT BARS), REFER TO SPECIFICATIONS FOR FIBER REINFORCEMENT TO BE INCORPORATED IN CONCRETE MIX, IF ANY. WHERE PRESENT, REINFORCING BARS SHALL BE CHAIBED BY SOIL SUPPORTED SLAB BOLSTERS.
 - PROVIDE (2) #5 x 6'-0" AT ALL RE-ENTRANT CORNERS AND OTHER SIMILAR SLAB DISCONTINUITIES.
 - UNLESS SHOWN OTHERWISE ON THE DRAWINGS, PROVIDE CONTROL AND/OR CONSTRUCTION JOINTS AT EVERY COLUMN LINE AND IN BETWEEN THE COLUMNS SUCH THAT THE JOINT SPACING DOES NOT EXCEED 36 x ("T") UNO. THE RESULTING PANELS SHOULD BE APPROXIMATELY SQUARE.

- SECTION 2: CONSTRUCTION JOINT NOTES**
- BREAK THE BOND BETWEEN NEW AND PREVIOUSLY PLACES SLABS BY SPRAYING OR BY PAINTING THE EXPOSED SIDE OF THE JOINT WITH A CURING COMPOUND, ASPHALTIC EMULSION, OR FORM OIL.

- SECTION 3: CONTROL JOINT NOTES**
- FOR SAW-CUT CONTROL JOINTS, MAKE THE SAW-CUT AS SOON AS THE SLAB IS ABLE TO SUPPORT THE WEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO THE FINISHED SURFACE OF THE SLAB, BUT WITHIN 24 HOURS.
 - DEPTH OF SAW-CUT SHOULD BE 1 1/4" IF PRODUCED USING THE EARLY ENTRY DRY-CUT PROCESS AND "T"/4 (1" MIN) IF PRODUCED USING THE CONVENTIONAL WET-CUT PROCESS.
 - REFER TO SPECIFICATIONS REGARDING EPOXY RESIN OR ELASTOMERIC SEALANT REQUIREMENTS FILL CONTROL JOINTS.

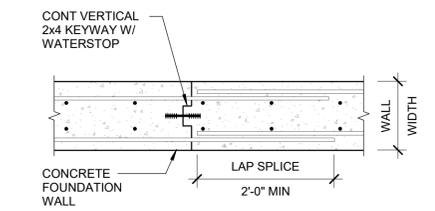
- SECTION 4: FORMED CONTROL JOINT OPTION NOTES**
- FORM CONTROL JOINTS BY INSERTING A PRE-MOLDED STRIP INTO THE FRESH CONCRETE UNTIL THE TOP SURFACE OF THE STRIP IS FLUSH WITH THE TOP SURFACE OF THE SLAB.
 - TOOL THE SLAB EDGES ROUND ON EACH SIDE OF THE INSERT, 1/8" MAX RADIUS.
 - AFTER THE CONCRETE HAS CURED, REMOVE THE INSERTS AND CLEAN THE GROOVE OF LOOSE DEBRIS.

REINFORCING LAP SPlice LENGTH SCHEDULE										
f _c (PSI)	LOCATION	BAR SIZE								
		#3	#4	#6	#7	#8	#9	#10	#11	
3,000	TOP BARS	28	38	47	56	81	93	105	118	131
	OTHERS	22	29	36	43	63	72	81	91	101
4,000	TOP BARS	25	33	41	49	71	81	91	102	114
	OTHERS	19	25	31	37	54	62	70	79	87

NOTES:

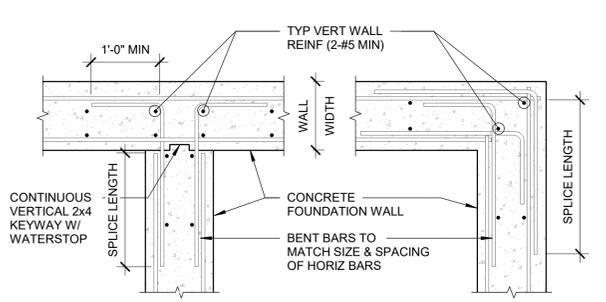
- TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND NORMAL WEIGHT CONCRETE.
- TENSION LAP SPlice LENGTHS ARE CALCULATED PER ACI 318-14. LENGTHS ARE IN INCHES.
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
- SPlice LENGTHS IN THIS SCHEDULE ARE BASED ON CLEAR COVER AT LEAST 1.0 BAR Ø AND CLEAR SPACING AT LEAST 2.0 BAR Ø.

1 TYPICAL CONCRETE REINFORCING LAP LENGTHS
SCALE: NTS

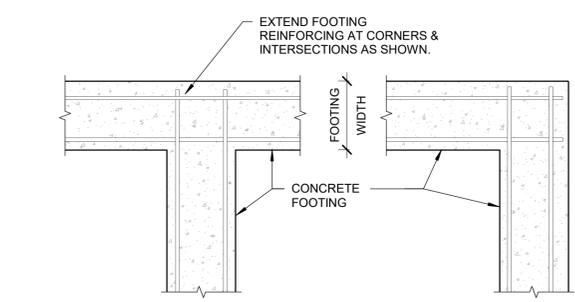


4 TYPICAL WALL CONSTRUCTION JOINT
SCALE: NTS

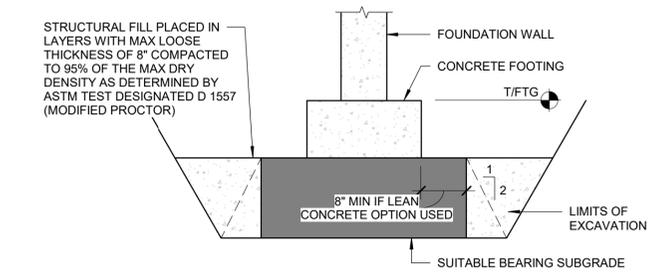
2 TYPICAL SLAB JOINTS
SCALE: NTS



5 TYPICAL WALL REINFORCING
SCALE: NTS

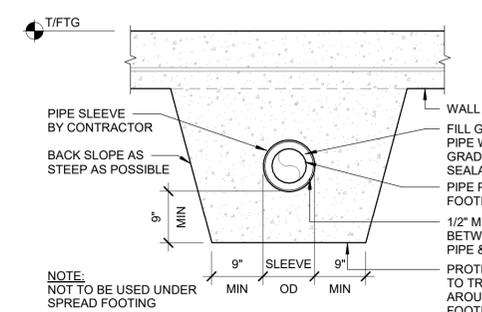


6 TYPICAL FOOTING REINFORCING
SCALE: NTS

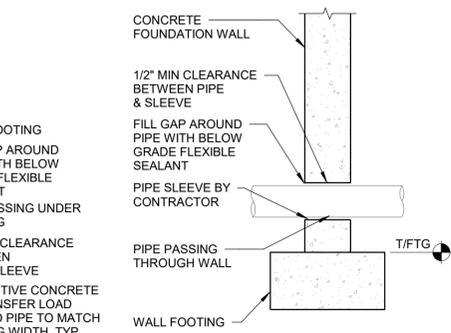


- NOTES:**
- CONTRACTOR'S OPTION: ELIMINATE STRUCTURAL FILL BY LOWERING DESIGNED FOOTING ELEVATION SO THAT FOOTING RESTS DIRECTLY ON SUITABLE BEARING SUBGRADE. PROVIDE LEAN CONCRETE (f_c = 500 PSI MIN) UNDER THE FOOTING AS SHOWN HATCHED ABOVE, OR INCREASE FOOTING THICKNESS TO REACH SUITABLE BEARING SUBGRADE.
 - THIS DETAIL APPLIES ONLY AT THOSE LOCATIONS WHERE GEOTECH ENGINEER DEEMS SOILS AT DESIGNED FOOTING ELEVATIONS ARE INADEQUATE FOR FOOTING SUPPORT. WHERE THIS WORK IS REQUIRED, CONTRACTOR WILL BE COMPENSATED ON A PRE-ESTABLISHED UNIT COST AGREED UPON BY THE CONTRACTOR, ARCHITECT/ENGINEER, AND OWNER.

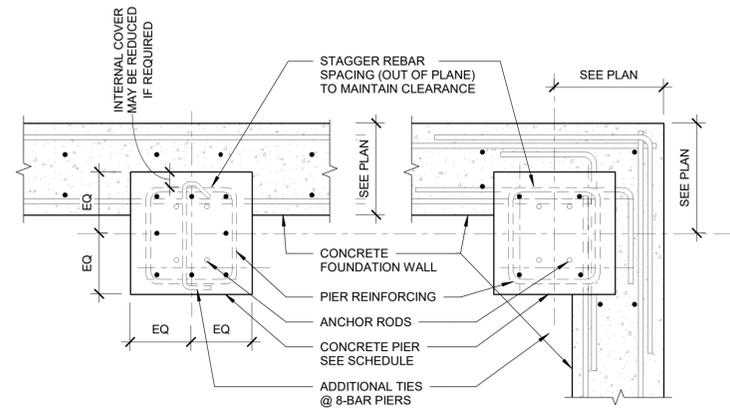
8 TYPICAL OVER EXCAVATION DETAIL
SCALE: NTS



9 TYPICAL PIPE CROSSING FOUNDATION WALL
SCALE: NTS

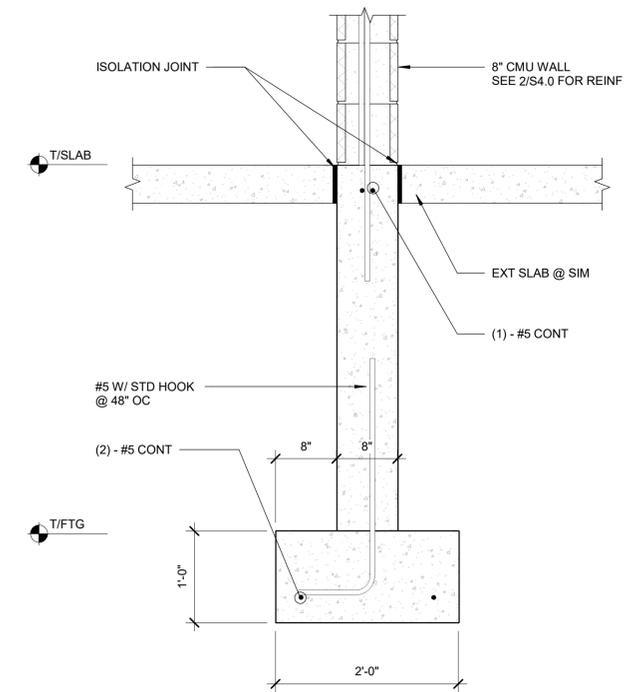


10 TYPICAL PIER AT WALL AND CORNER
SCALE: NTS

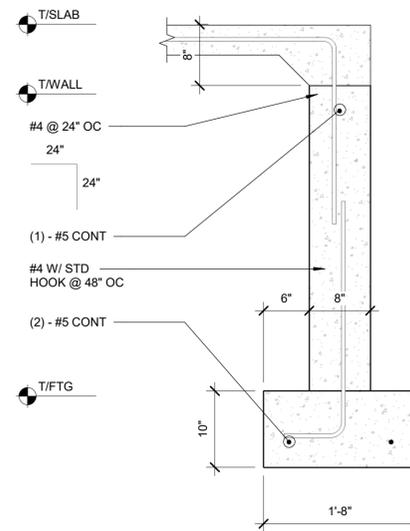


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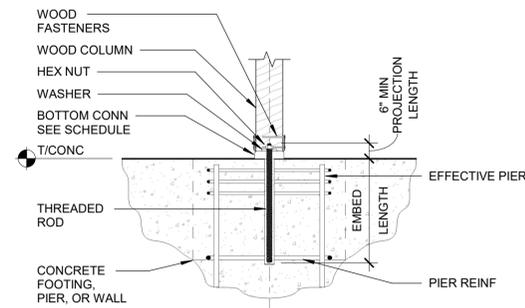
Revisions		
No.	Date	Description
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4 SECTION
SCALE: NTS

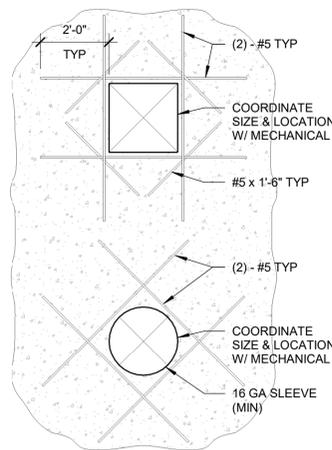


3 SECTION
SCALE: NTS



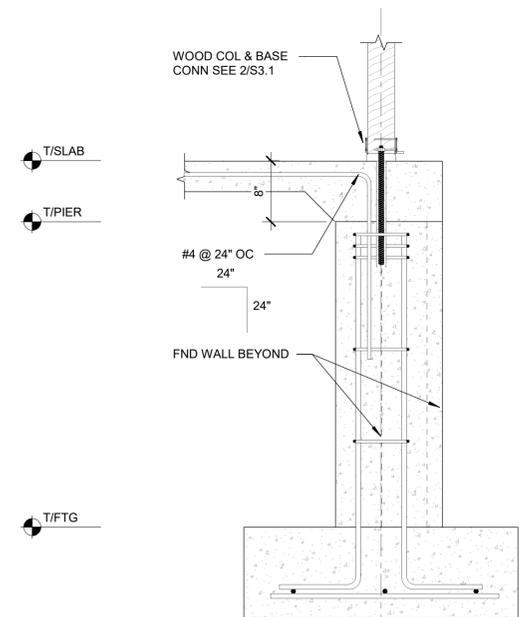
2 TYPICAL WOOD COLUMN BASE
SCALE: NTS

CONN TYPE	WOOD FASTENERS	THREADED ROD Ø (IN.)	EMBED LENGTH (IN.)	EPOXY TYPE
SIMPSON ABA44	(6) - 10d	1/2	4 1/4	HILTI HIT-RE 500
SIMPSON ABA66	(8) - 16d	5/8	5	HILTI HIT-RE 500
SIMPSON ABU88	(18) - 16d	(2) - 5/8	6 5/8	HILTI HIT-RE 500



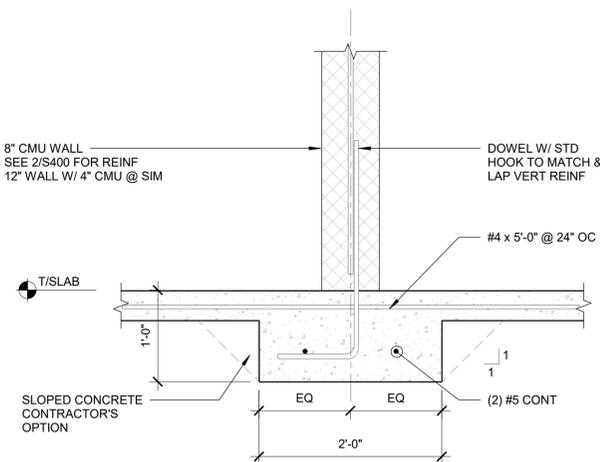
1 TYPICAL CONCRETE WALL PENETRATION
SCALE: NTS

- NOTES:**
1. APPLIES TO 24" (MAX) OPENINGS THROUGH FOUNDATION WALL.
 2. TOP OF OPENING TO BE 24" (MIN) FROM TOP OF WALL.
 3. REINFORCING LAYERS TO MATCH FOUNDATION WALL.
 4. USE 90° STANDARD HOOK AT CORNERS AND ENDS OF WALL.



6 SECTION
SCALE: NTS

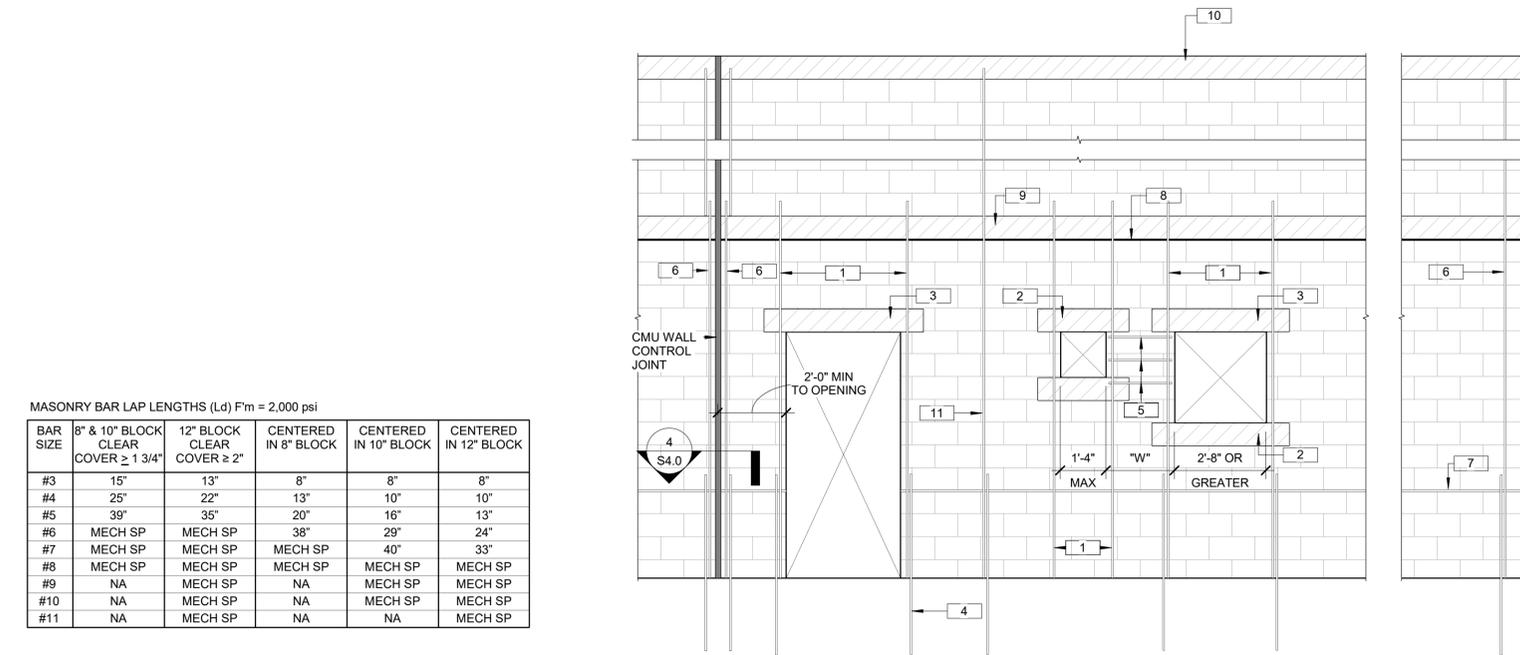
NOTE: SEE 3/S3.0 FOR INFORMATION NOT PROVIDED



5 SECTION
SCALE: NTS

Drawn by	Checked by
C4E	C4E

Revisions		
No.	Date	Description
1	01.23.2024	Bid & Permit Set



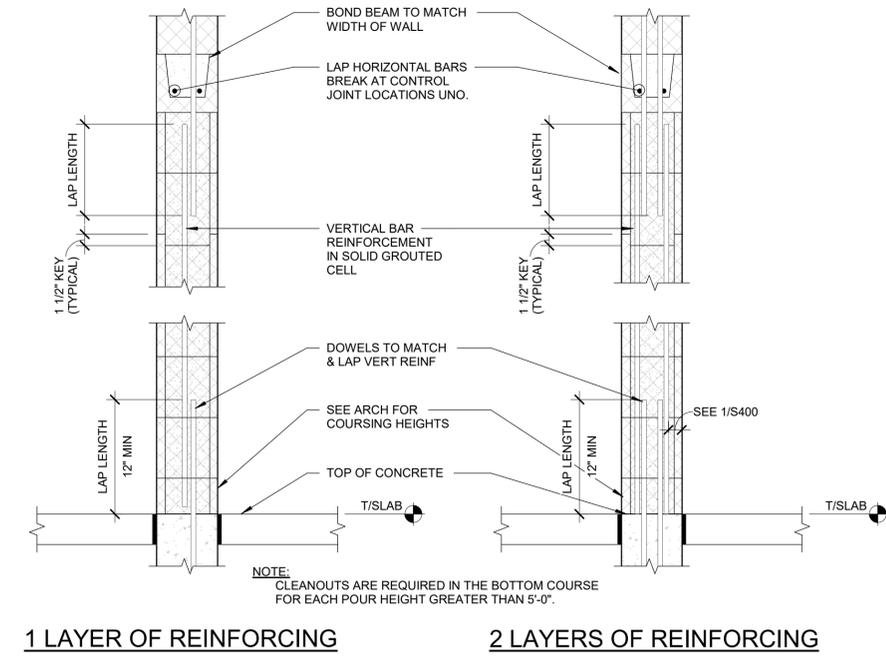
MASONRY BAR LAP LENGTHS (Ld) F'm = 2,000 psi

BAR SIZE	8" & 10" BLOCK CLEAR COVER ≥ 1 3/4"	12" BLOCK CLEAR COVER ≥ 2"	CENTERED IN 8" BLOCK	CENTERED IN 10" BLOCK	CENTERED IN 12" BLOCK
#3	15"	13"	8"	8"	8"
#4	25"	22"	13"	10"	10"
#5	39"	35"	20"	16"	13"
#6	MECH SP	MECH SP	38"	29"	24"
#7	MECH SP	MECH SP	MECH SP	40"	33"
#8	MECH SP	MECH SP	MECH SP	MECH SP	MECH SP
#9	NA	MECH SP	NA	MECH SP	MECH SP
#10	NA	MECH SP	NA	MECH SP	MECH SP
#11	NA	MECH SP	NA	NA	MECH SP

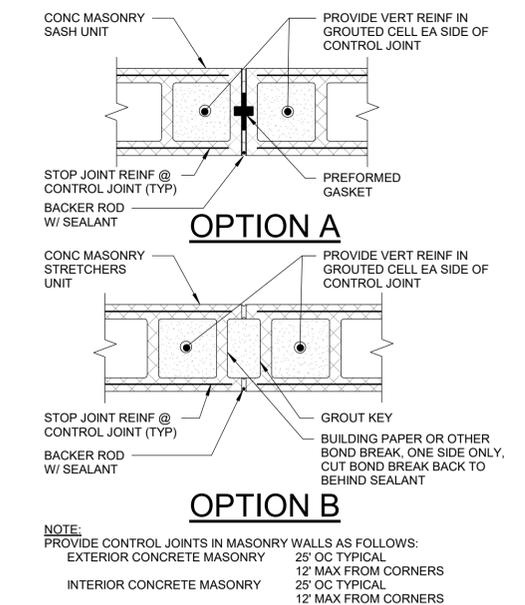
1 TYPICAL MASONRY REINFORCING LAP LENGTHS
SCALE: NTS

2 TYP CMU WALL REINFORCEMENT
SCALE: NTS

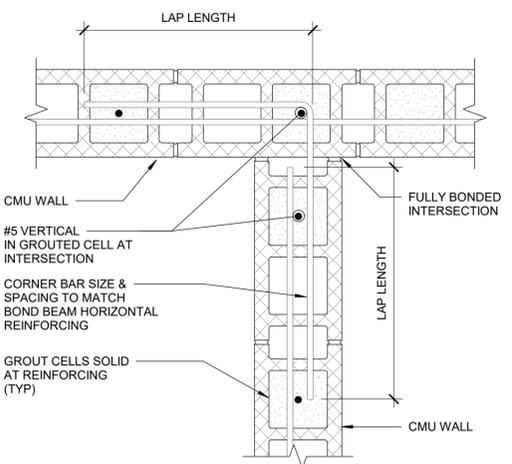
- NOTES:
- JAMB REINFORCEMENT PER LINTEL SCHEDULE OR LINTEL DETAILS. MIN (1) #5 EA JAMB.
 - 8" BOND BEAM W/ (1) #5 CONT.
 - LINTEL SEE SCHEDULE
 - DOWELS TO MATCH & LAP VERTICAL REINFORCEMENT.
 - WHEN "W" IS LESS THAN 2'-0" AT 8" CMU WALL AND 3'-0" AT 12" CMU WALL, ADD 1/4" CLOSED TIE SETS AT 8" OC.
 - REINFORCE VERT CELLS AT END OF WALL AND ADJACENT TO CONTROL JOINTS.
 - HORIZ JOINT REINFORCEMENT, SEE GENERAL NOTES.
 - ROOF OR FLOOR LINE BEYOND.
 - 8" BOND BEAM W/ (2) #4 CONT AT ROOF OR FLOOR LINE, UNO.
 - 8" BOND BEAM W/ (2) #4 CONT AT TOP OF WALL, UNO.
 - #5 @ 48" OC TYPICAL WALL REINFORCING, UNO.



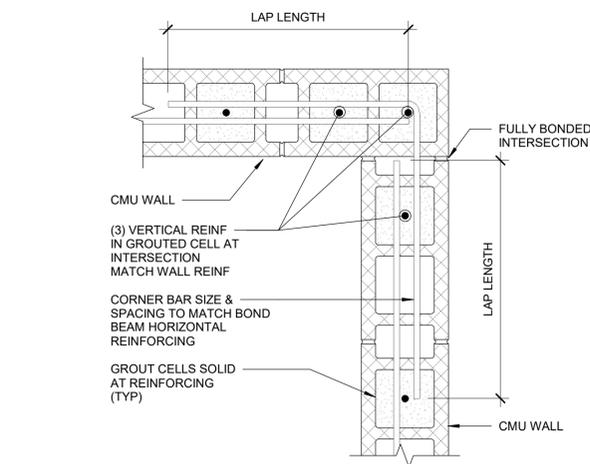
3 TYPICAL REINFORCED CMU WALL CONSTRUCTION DETAIL
SCALE: NTS



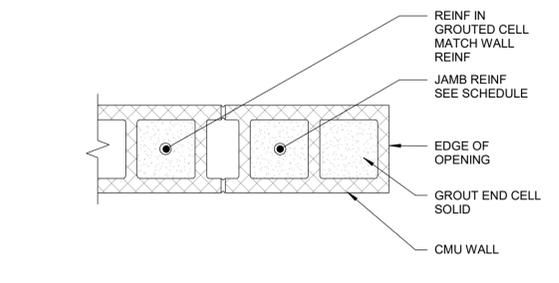
4 CMU CONTROL JOINT
SCALE: NTS



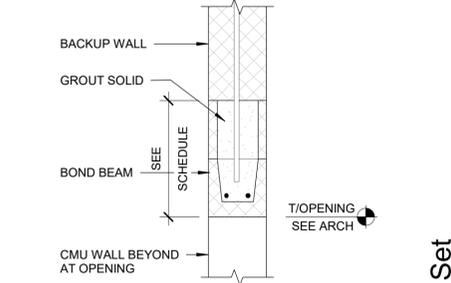
5 CMU WALL INTERSECTION
SCALE: NTS



6 CMU WALL CORNER
SCALE: NTS



7 CMU WALL END
SCALE: NTS



A LINTEL TYPE A
SCALE: NTS

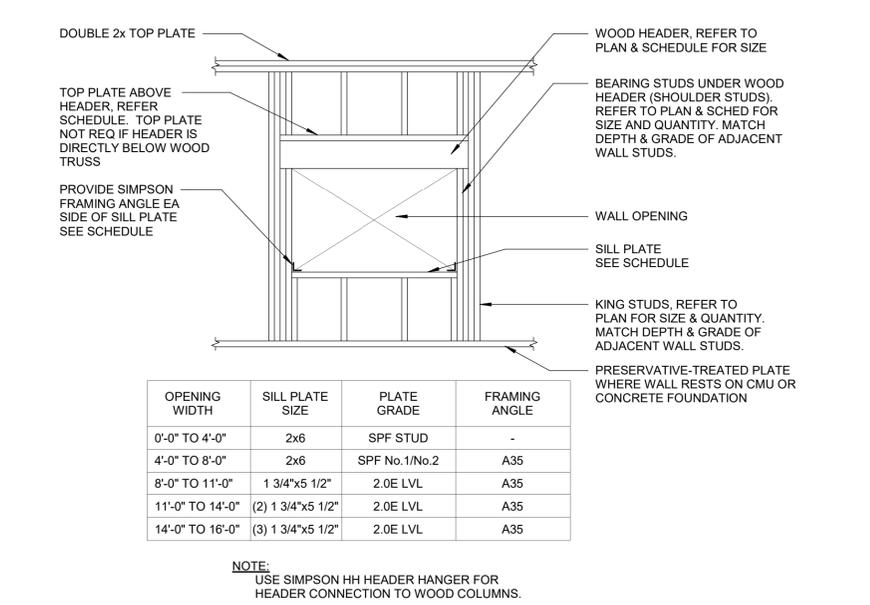
2024-01-23 Bid & Permit Set

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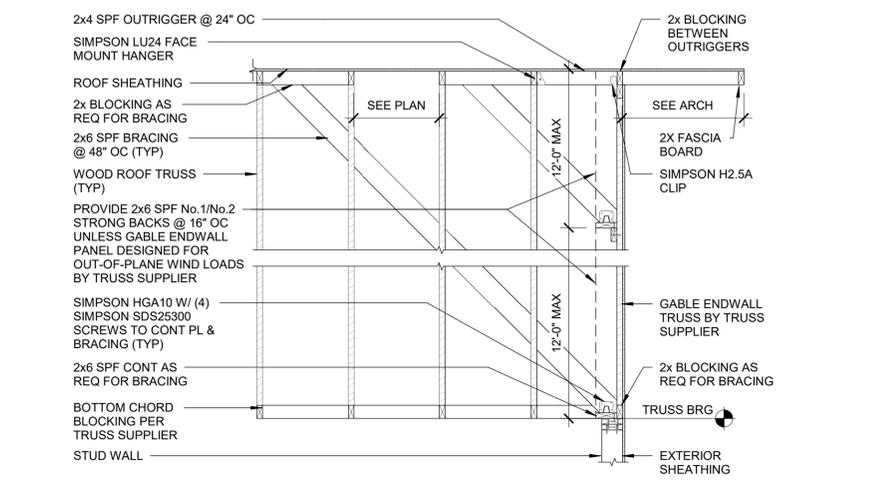
Revisions		
No.	Date	Description
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TYPICAL FASTENING SCHEDULE		
CONNECTION TYPE:	NAILING - COMMON NAILS: (UNLESS OTHER CONNECTION IS REQUIRED)	NAILING - STRIP NAILS: (UNLESS OTHER CONNECTION IS REQUIRED)
DOUBLE TOP PLATES, FACE NAIL	16d COMMON (3-1/2"x0.135") @ 16" OC	3"x0.131" @ 12" OC
DOUBLE TOP PLATES, LAP SPLICE, FACE NAIL	(8) 16d COMMON (3-1/2"x0.162")	(12) 3"x0.131"
TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL	(2) 16d COMMON (3-1/2"x0.162")	(3) 3"x0.131"
TOP PLATE TO STUD, END NAIL	(2) 16d COMMON (3-1/2"x0.162")	3"x0.131"
CONT HEADER TO STUD, TOENAIL	(4) 8d COMMON (2-1/2"x0.131")	--
STUD TO SOLE PLATE	(4) 8d COMMON (2-1/2"x0.131") TOENAIL	(4) 3"x0.131" TOENAIL
	(2) 16d COMMON (3-1/2"x0.162")	(3) 3"x0.131" END NAIL
BUILT-UP STUD COLUMNS, FACE NAIL	10d COMMON (3"x0.148") @ 16" OC	3"x0.131" @ 12" OC STAGGERED
BUILT-UP CORNER STUDS & SUPPORT STUDS	16d COMMON (3-1/2"x0.162") @ 24" OC STAGGERED	3"x0.131" @ 16" OC STAGGERED
BUILT-UP HEADER, FACE NAIL	16d COMMON (3-1/2"x0.162") @ 12" OC ALONG EACH EDGE	
PLYWOOD/OSB ROOF SHEATHING (APA RATED) UNLESS NOTED OTHERWISE	8d COMMON (2-1/2"x0.131") @ 6" OC AT SUPPORTED PANEL EDGES 8d COMMON (2-1/2"x0.131") @ 12" OC AT INTERMEDIATE MEMBERS IN FIELD OF PANELS	3"x0.131" @ 6" OC AT SUPPORTED PANEL EDGES 3"x0.131" @ 12" OC AT INTERMEDIATE MEMBERS IN FIELD OF PANELS
JOIST TO SILL OR GIRDER, TOENAIL	(3) 8d COMMON (2-1/2"x0.131")	(3) 3"x0.131"
RIM JOIST TO TOP PLATE, TOENAIL	8d COMMON (2-1/2"x0.131") @ 6" OC	3"x0.131" @ 6" OC
BLOCKING BTWN JOIST/RAFTERS TO TOP PL. TOENAIL	(3) 8d COMMON (2-1/2"x0.131")	(3) 3"x0.131"
JOIST TO RIM BOARD, FACE NAIL	(3) 16d COMMON (3-1/2"x0.162")	(4) 3"x0.131"
SOLE PLATE TO JOIST/BLOCKING, FACE NAIL	16d COMMON (3-1/2"x0.135") @ 16" OC	3"x0.131" @ 8" OC
FLOOR SHEATHING (APA RATED) UNLESS NOTED OTHERWISE	#8 SCREWS @ 6" OC AT SUPPORTED PANEL EDGES #8 SCREWS @ 12" OC AT INTERMEDIATE MEMBERS IN FIELD OF PANELS W/ CONSTRUCTION ADHESIVE	#8 SCREWS @ 6" OC AT SUPPORTED PANEL EDGES #8 SCREWS @ 12" OC AT INTERMEDIATE MEMBERS IN FIELD OF PANELS W/ CONSTRUCTION ADHESIVE

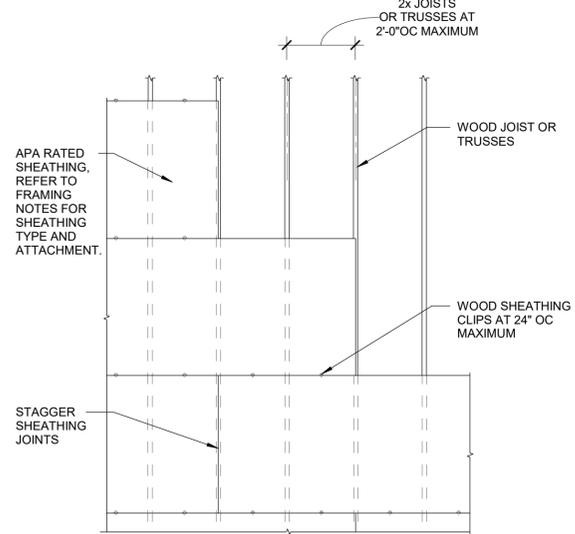
1 TYPICAL WOOD FASTENING SCHEDULE
SCALE: NTS



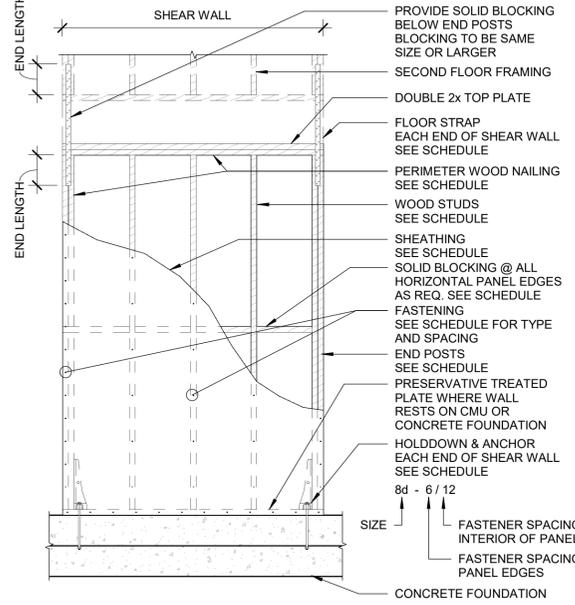
4 TYPICAL FRAMING AROUND AN OPENING IN A WOOD STUD BEARING WALL
SCALE: NTS



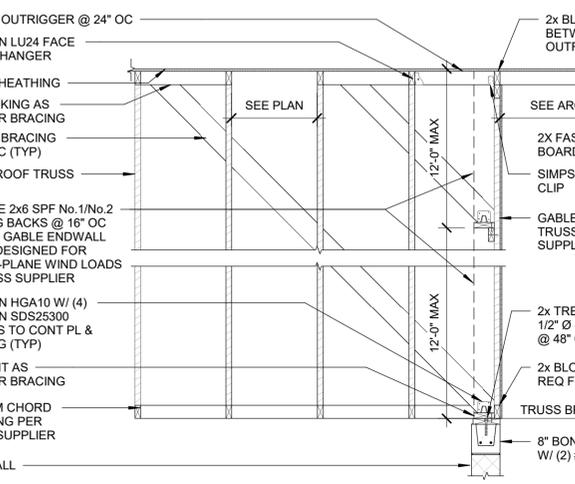
7 TYPICAL GABLE END DETAIL - STUD WALL
SCALE: NTS



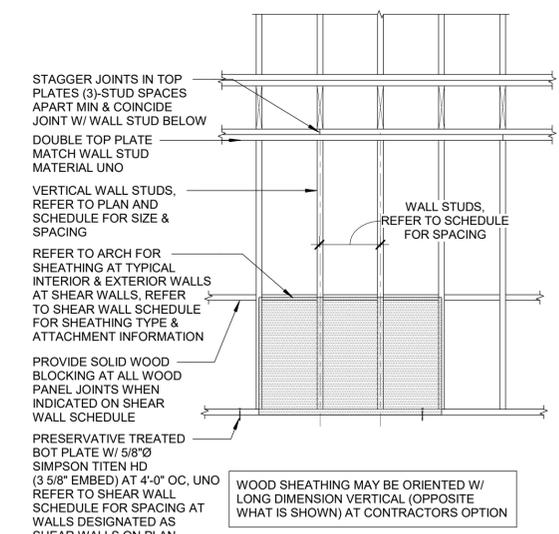
2 TYPICAL WOOD ROOF DECK ATTACHMENT
SCALE: NTS



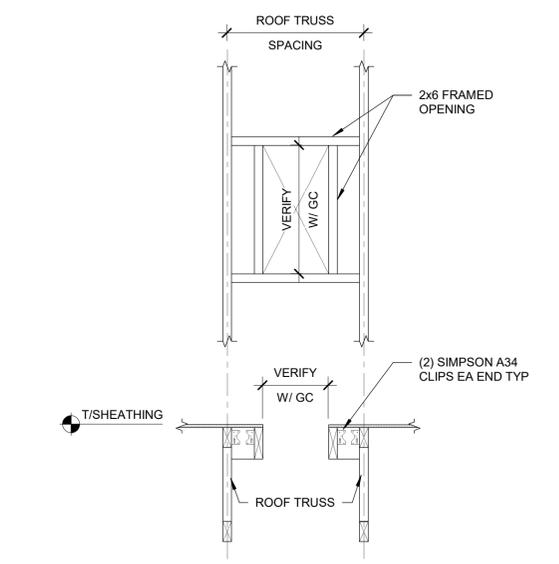
5 TYPICAL WOOD SHEAR WALL
SCALE: NTS



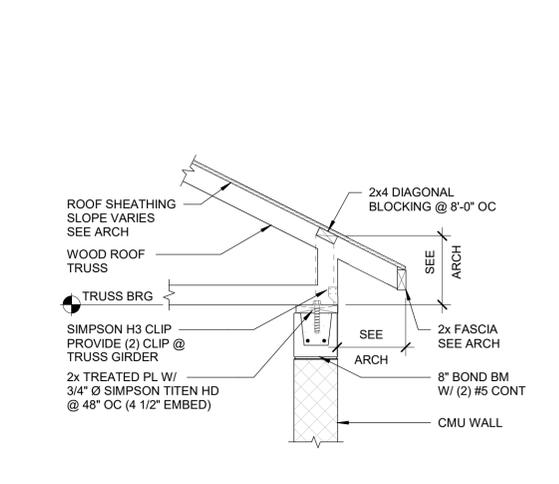
8 TYPICAL GABLE END DETAIL - CMU WALL
SCALE: NTS



3 TYPICAL WOOD BEARING WALL
SCALE: NTS



6 TYPICAL ROOF OPENING
SCALE: NTS



9 SECTION
SCALE: NTS

