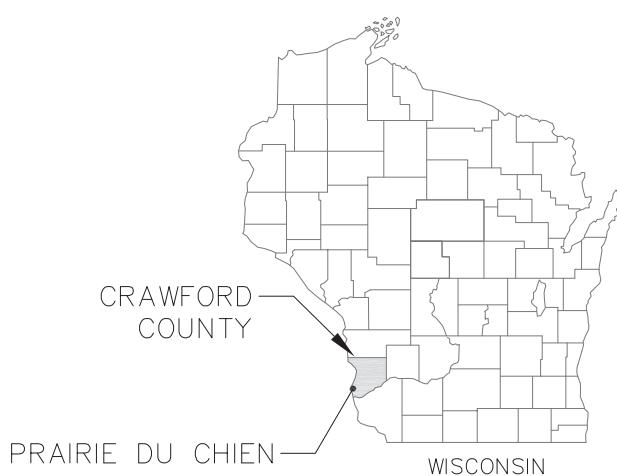


PUBLIC WATER SUPPLY WELL NO. 5 PUMPHOUSE & WELL NO. 2 PUMPHOUSE DEMOLITION

CITY OF PRAIRIE DU CHIEN



PROJECT LOCATION



GRAPHIC SCALE, FEET
0 125 250 500

SITE BENCHMARKS

(1) PK NAIL
NORTHING: 115804.9510
EASTING: 323865.9590
ELEV = 642.10

(2) PK NAIL
NORTHING: 116172.0230
EASTING: 323765.9250
ELEV = 643.12



THE LOCATION OF EXISTING UTILITIES, BOTH UNDERGROUND AND OVERHEAD ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES WHETHER OWN OR THESE PLANS OR NOT, BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.

CALL DIGGER'S HOTLINE

DIRECTORY

OWNER:

CITY OF PRAIRIE DU CHIEN
214 E BLACKHAWK ST
PRAIRIE DU CHIEN, WI 53021
TELEPHONE: (608) 326-6400 X20
CONTACT:
LARRY GATES, UTILITY DIRECTOR

CIVIL, PROCESS PIPING, PLUMBING, & ELECTRICAL DESIGN, PROJECT MANAGER:

VIERBICHER ASSOCIATES, INC.
999 FOURIER DRIVE., SUITE 201
MADISON, WI 53717
TELEPHONE: (608) 821-3596
CONTACT:
DARRIN R. POPE, P.E.

ARCHITECTURE:

ARCHITECTURAL DESIGN CONSULTANTS, INC.
30 WISCONSIN DELLS PARKWAY
LAKE DELTON, WI 53940
TELEPHONE: (608) 254-6181
CONTACT:
MICHAEL L. MAAS

STRUCTURAL DESIGN:

ARCHITECTURAL DESIGN CONSULTANTS, INC.
30 WISCONSIN DELLS PARKWAY
LAKE DELTON, WI 53940
TELEPHONE: (608) 254-6181
CONTACT:
ROBERT J. GROTHMAN

MECHANICAL DESIGN:

TC MECHANICAL & DESIGN, LLC
E9359 MAGNOLIA CT
WISCONSIN DELLS, WI 53965
(920) 285-5506
CONTACT:
TIMOTHY J. COUGHLIN

DARRIN R. POPE, P.E.

MICHAEL L. MAAS

ROBERT J. GROTHMAN

TIMOTHY J. COUGHLIN

6-24-25

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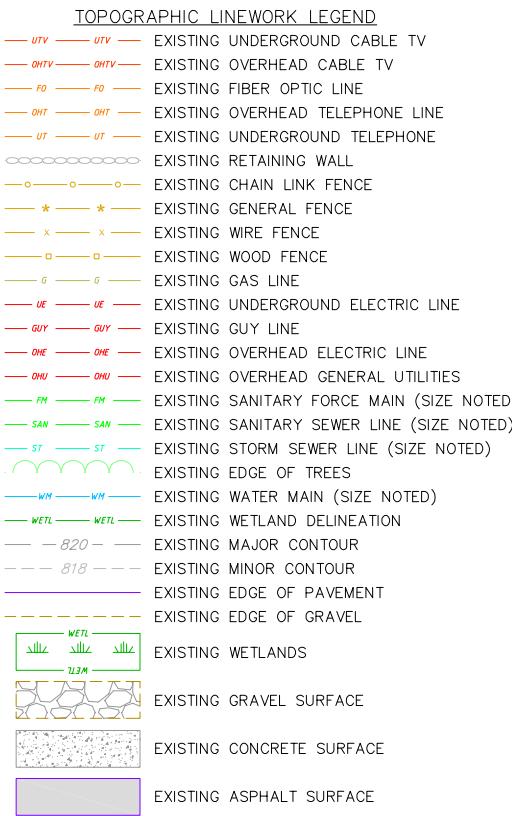
Michael L. Maas

TOPOGRAPHIC SYMBOL LEGEND

- EXISTING BOLLARD
- EXISTING FLAG POLE
- EXISTING MAILBOX
- EXISTING MONITORING WELL
- EXISTING POST
- EXISTING SIGN (TYPE NOTED)
- EXISTING PARKING METER
- EXISTING CURB INLET
- EXISTING ENDWALL
- EXISTING FIELD INLET RECTANGULAR
- EXISTING FIELD INLET
- EXISTING ROOF DRAIN CLEANOUT
- EXISTING ROOF DRAIN
- EXISTING STORM MANHOLE
- EXISTING STORM MANHOLE RECTANGULAR
- EXISTING STORM TRACER WIRE BOX
- EXISTING SANITARY CLEANOUT
- EXISTING SANITARY MANHOLE
- EXISTING SEPTIC VENT
- EXISTING SANITARY TRACER WIRE BOX
- EXISTING FIRE HYDRANT
- EXISTING FIRE DEPARTMENT CONNECTION
- EXISTING WATER MAIN VALVE
- EXISTING CURB STOP
- EXISTING WELL
- EXISTING WATER MANHOLE
- EXISTING WATER TRACER WIRE BOX
- EXISTING GAS VALVE
- EXISTING GAS METER
- EXISTING AIR CONDITIONING PEDESTAL
- EXISTING DOWN GUY
- EXISTING ELECTRIC MANHOLE
- EXISTING ELECTRIC RECTANGULAR MANHOLE
- EXISTING ELECTRIC PEDESTAL
- EXISTING TRANSFORMER
- EXISTING ELECTRIC METER
- EXISTING GUY POLE
- EXISTING LIGHT POLE
- EXISTING GENERIC LIGHT
- EXISTING UTILITY POLE
- EXISTING TV MANHOLE
- EXISTING TV RECTANGULAR MANHOLE
- EXISTING TV PEDESTAL
- EXISTING TELEPHONE MANHOLE
- EXISTING TELEPHONE PEDESTAL
- EXISTING UNIDENTIFIED MANHOLE
- EXISTING UNIDENTIFIED UTILITY VAULT
- EXISTING HANDICAP PARKING
- EXISTING TRAFFIC SIGNAL
- EXISTING SHRUB
- EXISTING CONIFEROUS TREE
- EXISTING DECIDUOUS TREE
- EXISTING TREE STUMP
- EXISTING BORING
- EXISTING ADA DETECTABLE WARNING FIELD

SURVEY LEGEND

- Ⓐ BENCHMARK
- ✗ FOUND CHISELED "X"
- PUBLIC LAND CORNER AS NOTED
- FOUND NAIL
- FOUND 1" Ø IRON PIPE
- FOUND 2" Ø IRON PIPE
- FOUND ____" Ø IRON PIPE
- ▲ FOUND P.K. NAIL
- FOUND 1-1/4" Ø IRON ROD
- FOUND 3/4" Ø IRON ROD
- FOUND ____" Ø IRON ROD
- FOUND RAILROAD SPIKE
- ✗ SET CHISELED "X"
- SET NAIL
- △ SET P.K. NAIL
- SET 1-1/4" X 18" SOLID IRON RE-ROD, MIN. WT. 4.30 LBS./FT.
- SET 3/4" X 18" SOLID IRON RE-ROD, MIN. WT. 1.50 LBS./FT.
- SET RAILROAD SPIKE
- SET 1.32" (O.D.) X 18" IRON PIPE WITH CAP WEIGHING 1.68 LBS/LIN FT
- SET 2.38" (O.D.) X 18" IRON PIPE WITH CAP WEIGHING 3.65 LBS/LIN FT
- △ GENERAL CONTROL POINT

CONSTRUCTION AND GENERAL NOTES

1. INSTALL A 50'L X 20'W X 1.5'D ANTI TRACKING PAD AT THE ENTRANCE OF THE PROJECT. THE ANTI TRACKING PAD SHALL BE REPLACED AS NECESSARY TO ACCOMMODATE UTILITY CONSTRUCTION.
2. THE CONTRACTOR IS REQUIRED TO MAKE EROSION CONTROL INSPECTIONS AT THE END OF EACH WEEK AND WHEN 0.5 INCHES OF RAIN FALLS WITHIN 24 HOURS. INSPECTION REPORTS SHALL BE PREPARED AND FILED AS REQUIRED BY THE DNR. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS. REPORTS SHALL BE SUBMITTED TO ENGINEER
3. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DURING CONSTRUCTION TO PUBLIC PROPERTY, PRIVATE
4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW BY THE ENGINEER, PRIOR TO PLACING ORDER OF ANY
5. EXISTING TOPOGRAPHIC INFORMATION IS BASED ON FIELD OBSERVATIONS AND/OR PLAN OF RECORD. CONTRACTOR SHALL VERIFY TOPOGRAPHIC INFORMATION PRIOR TO STARTING CONSTRUCTION.
6. ALL FINAL GRADES FOR HYDRANTS ARE FINISHED GRADES AT BASE (FLANGE EL.) OF HYDRANT.
7. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES AND ENSURE PROPER CLEARANCE OF NEW UTILITIES.
8. THE CONTRACTOR SHALL REMOVE ANY SEDIMENT TRACKED ONTO ADJACENT ROADS BY THE MEANS OF STREET SWEEPING (NOT FLUSHING) AT THE END OF EACH WORK DAY.
9. ROW AND PROPERTY LINES ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING PROPERTY CORNER MONUMENTATION. ANY MONUMENTS DISTURBED BY CONTRACTOR SHALL BE REPLACED AT THE
10. CONTRACTOR SHALL COORDINATE WITH DRY UTILITY COMPANY'S REGARDING ANY POTENTIAL CONFLICTS AND COORDINATE RELOCATIONS AS MAY BE REQUIRED. CONTRACTOR SHALL ALSO COORDINATE FOR THE INSTALLATION OF NEW
11. CONTRACTOR SHALL COORDINATE w/ PROPERTY OWNERS/RESIDENTS REGARDING ACCESS TO DRIVEWAYS AND UTILITY SHUT-OFFS. THE CONTRACTOR SHALL NOTIFY THE VILLAGE, THE ENGINEER, AND UTILITIES 48 HOURS PRIOR TO ANY
12. ALL WATER MAIN FITTINGS (BENDS, TEES, REDUCERS, CROSSES, ETC) WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCIDENTAL TO THE WATER MAIN.
13. INSTALL WATER MAIN AT ADEQUATE DEPTH TO AVOID CONFLICT WITH PROPOSED SANITARY SEWER AND STORM SEWER. MAINTAIN MINIMUM 1.5' SEPARATION IF WATER CROSSES BELOW SEWER AND MINIMUM 0.5' IF WATER CROSSES
14. ALL COPPER, OTHER METAL FITTINGS AND CASTINGS REMOVED DURING CONSTRUCTION IS THE PROPERTY OF THE CITY OF PRAIRIE DU CHIEN AND TO BE DELIVERED TO THE CITY.

GRADING LEGEND

- 820 — EXISTING MAJOR CONTOURS
- 818 — EXISTING MINOR CONTOURS
- 820 — PROPOSED MAJOR CONTOURS
- 818 — PROPOSED MINOR CONTOURS
- - - - DITCH CENTERLINE
- - - - SILT FENCE
- - - - DISTURBED LIMITS
- - - - BERM
- - - - DRAINAGE DIRECTION
- 2.92% — PROPOSED SLOPE ARROWS
- 1048.61 — EXISTING SPOT ELEVATIONS
- 1048.61 — PROPOSED SPOT ELEVATIONS
- - - - STONE WEEPER
- - - - VELOCITY CHECK
- - - - INLET PROTECTION
- - - - EROSION MAT CLASS I, TYPE A
- - - - EROSION MAT CLASS II, TYPE B
- - - - EROSION MAT CLASS III, TYPE C
- - - - EROSION MAT CLASS II, TYPE A
- - - - TRACKING PAD
- - - - RIP RAP

PROPOSED UTILITY LEGEND

- <> — STORM SEWER PIPE
- — STORM SEWER MANHOLE
- — STORM SEWER ENDWALL
- — STORM SEWER CURB INLET
- — STORM SEWER CURB INLET W/MANHOLE
- — STORM SEWER FIELD INLET
- — ROOF DRAIN CLEANOUT
- - - SANITARY SEWER PIPE (GRAVITY)
- - - SANITARY SEWER PIPE (FORCE MAIN)
- - - SANITARY SEWER LATERAL PIPE
- — SANITARY SEWER MANHOLE
- — SANITARY SEWER CLEANOUT
- - - WATER MAIN
- - - WATER SERVICE LATERAL PIPE
- — FIRE HYDRANT
- — WATER VALVE
- — CURB STOP
- — WATER VALVE MANHOLE
- - - PROPOSED PIPE INSULATION
- — GAS MAIN
- — ELECTRIC SERVICE

ABBREVIATIONS

STMH - STORM MANHOLE
FI - FIELD INLET
CI - CURB INLET
CB - CATCH BASIN
EW - ENDWALL
SMH - SANITARY MANHOLE

CONSTRUCTION SEQUENCE OF WORK

1. INSTALL TRACKING PAD PER DETAIL AT ALL ENTRANCES TO SITE
2. INSTALL SILT FENCE AND INLET PROTECTION
3. CONSTRUCT UNDERGROUND UTILITIES
4. CONSTRUCT PUMPHOUSE, GRADING & SITE IMPROVEMENTS
5. RESTORE WORK AREA(S)
6. AFTER CONSTRUCTION SITE IS RESTORED
 - REMOVE SILT FENCE AND INLET PROTECTION

AGENCIES:

EMERGENCY - FIRE, RESCUE, AMBULANCE, POLICE
DIAL 911

CITY OF PRAIRIE DU CHIEN
214 E BLACKHAWK AVE
PRAIRIE DU CHIEN, WI 53821
TELEPHONE: (608) 326-6400 X20
CONTACT:
LARRY GATES, UTILITY DIRECTOR

UTILITIES:

GAS
MG&E
MARK OEHLER
62950 VINEYARD ROAD
PRAIRIE DU CHIEN, WI 53821
608-326-2417

TELEPHONE
CENTURYLINK
STEVE NELSON
135 NORTH BONSON ST
PLATTEVILLE, WI 53818
608-342-4369

ELECTRIC
ALLIANT ENERGY
AL MUMM
2200 E CAMPION BLVD
PRAIRIE DU CHIEN, WI 53821
608-732-7825

CABLE TV
MEDIACOM
100 N MARQUETTE RD, SUITE 116
PRAIRIE DU CHIEN, WI 53821
608-326-4487

WATER WORKS
CITY OF PRAIRIE DU CHIEN
214 E BLACKHAWK AVE
PRAIRIE DU CHIEN, WI 53821
LARRY GATES
608-306-0360

SANITARY
CITY OF PRAIRIE DU CHIEN
214 E BLACKHAWK AVE
PRAIRIE DU CHIEN, WI 53821
LARRY GATES
608-306-0360

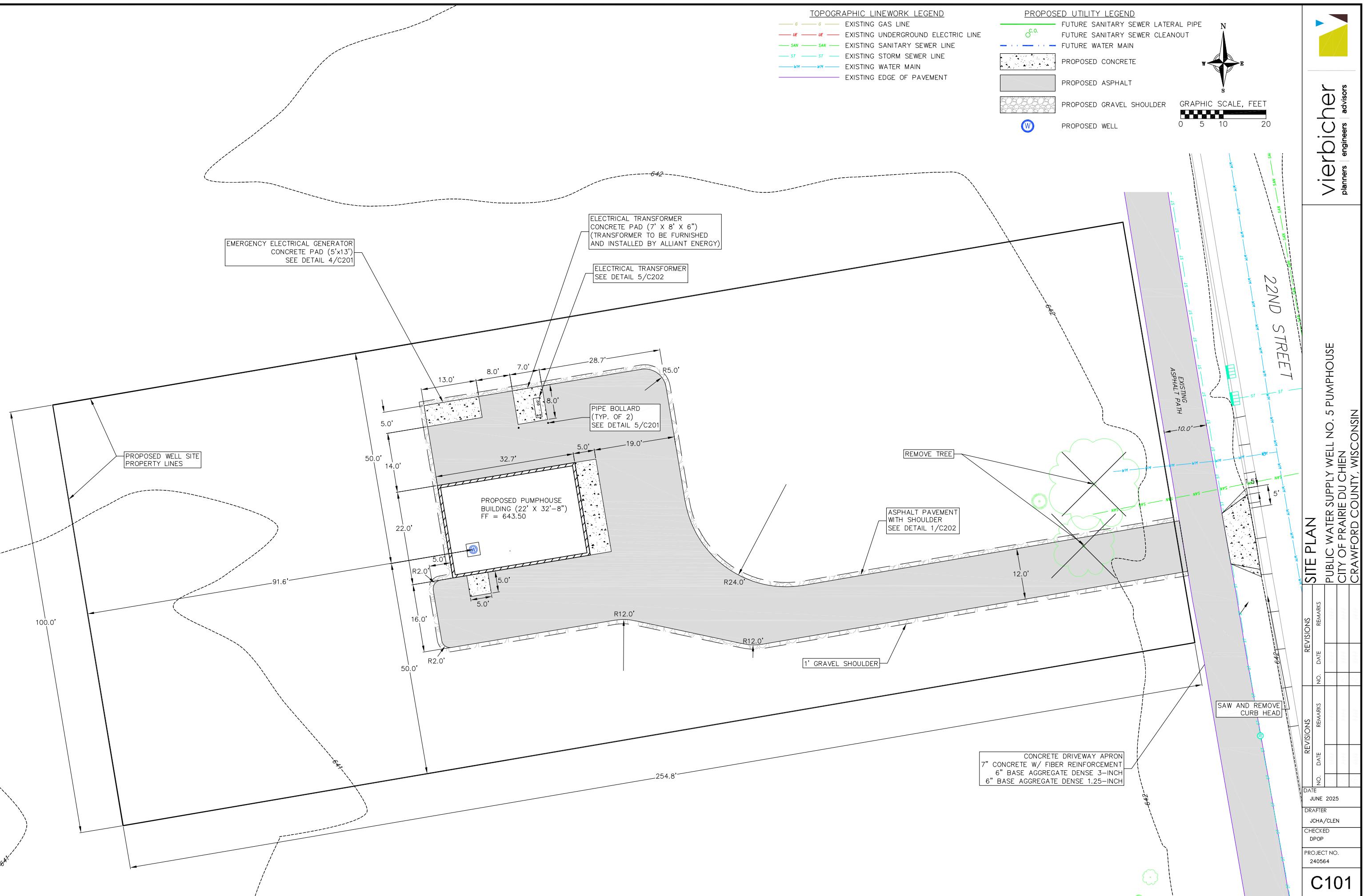
LEGENDS & GENERAL NOTES

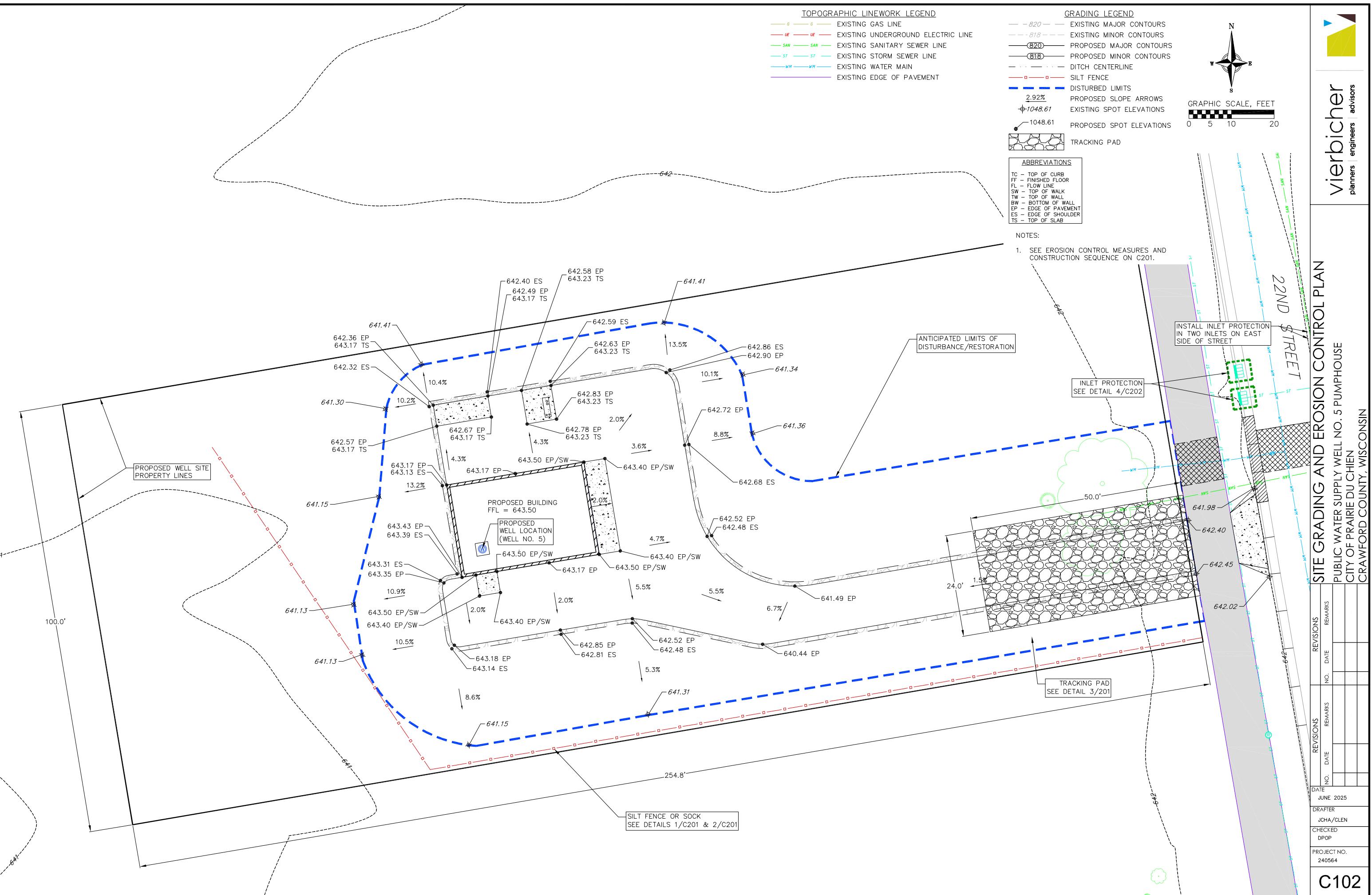
REVISIONS	REVISIONS	REVISIONS	REVISIONS
REMARKS	REMARKS	REMARKS	REMARKS
NO. DATE	NO. DATE	NO. DATE	NO. DATE

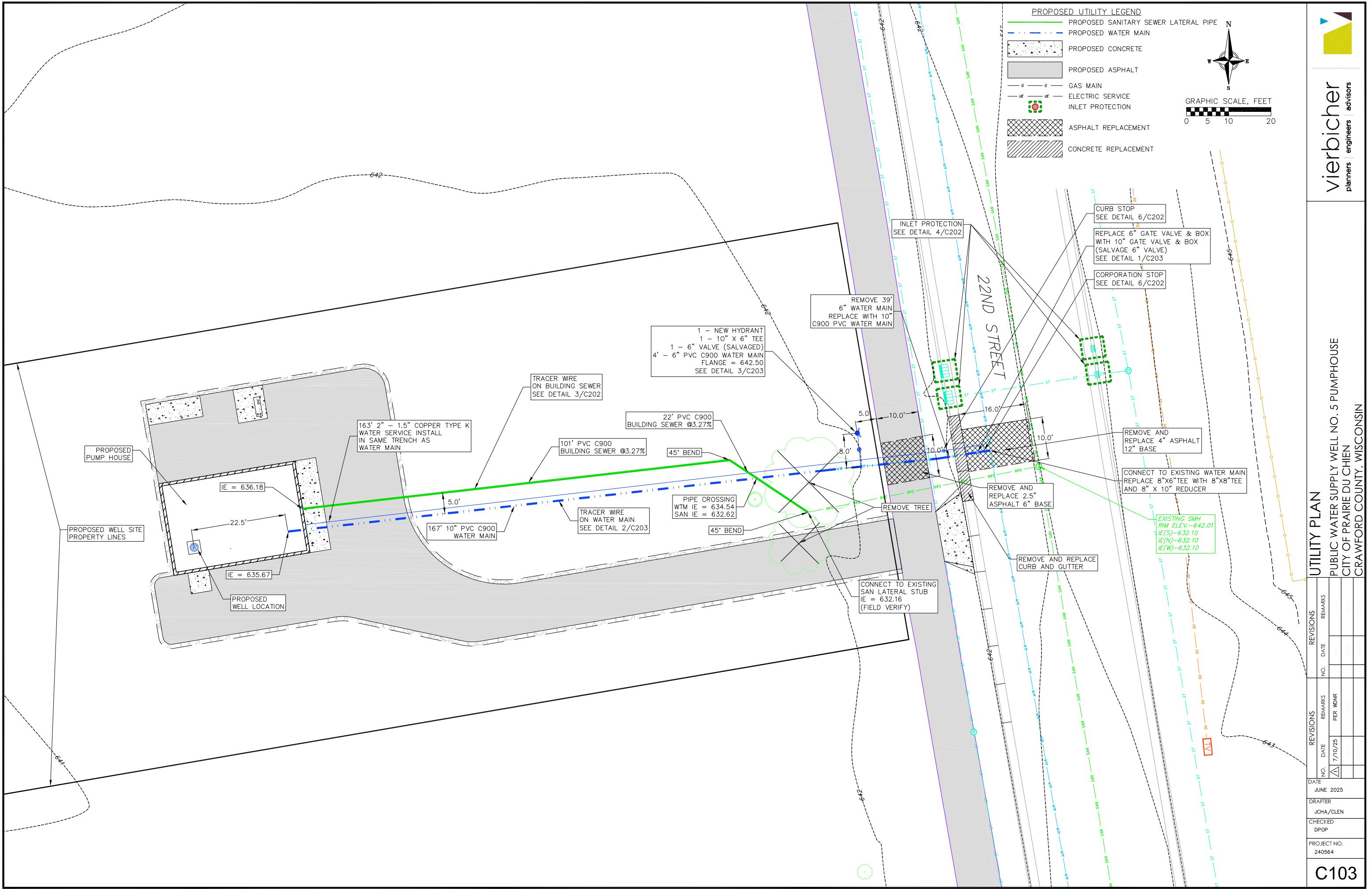
PUBLIC WATER SUPPLY - WELL NO. 5 PUMPHOUSE
CITY OF PRAIRIE DU CHIEN
CRAWFORD COUNTY, WISCONSIN

DATE	JUNE 2025
DRAFTER	PJUN
CHECKED	DPOP
PROJECT NO.	240564

G001









1 NORTH EXTERIOR
C104



2 EAST EXTERIOR
C104



3
C104 SOUTH EXTERIOR



4 INTERIOR FACING WEST



5 C104 INTERIOR FACING EAST

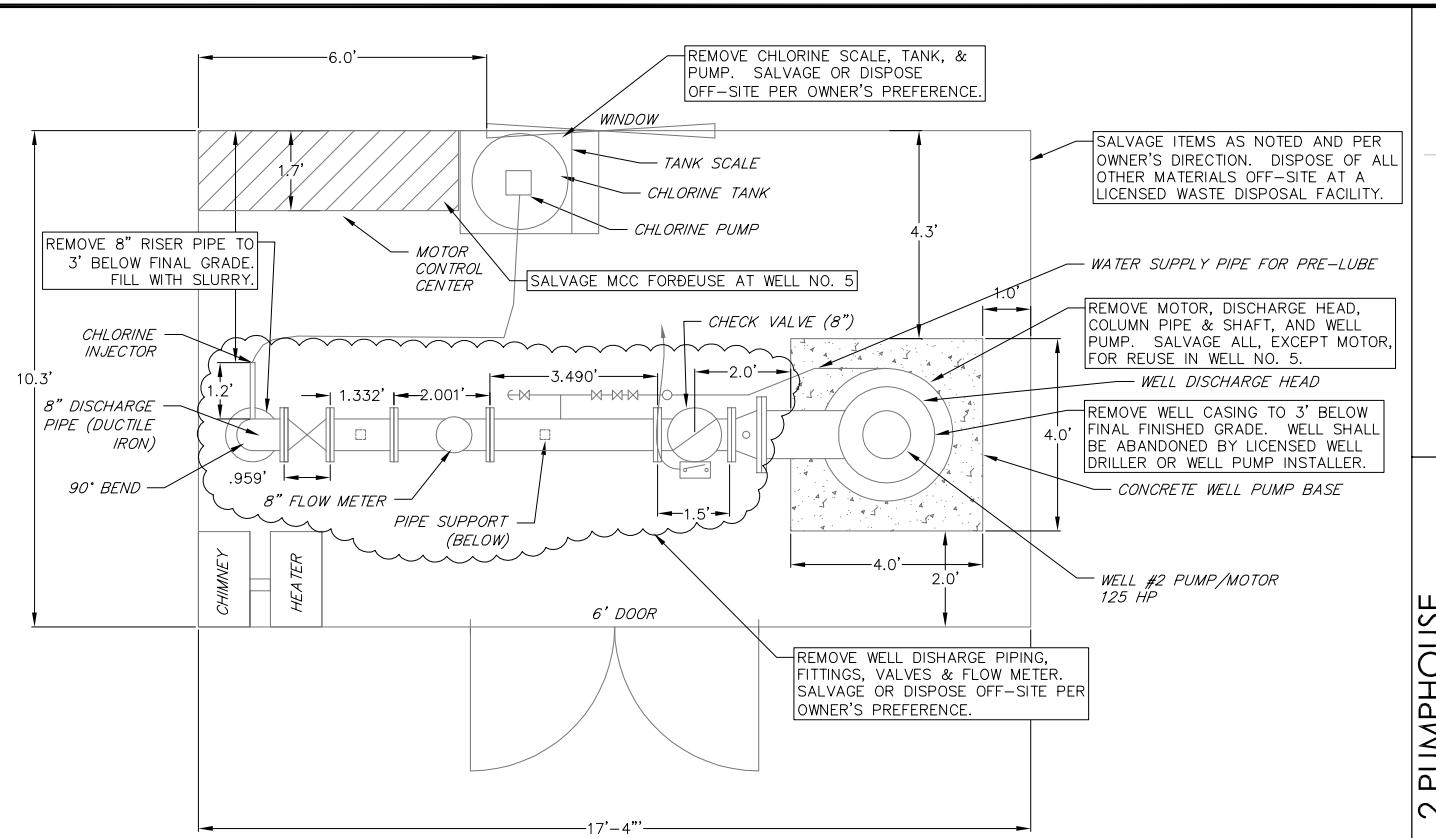
EXISTING CONDITIONS - WELL NO 2 PIMPHOUSE

**EXISTING CONDITIONS - WELL NO. 2
PUBLIC WATER SUPPLY - WELL NO. 5 PUMPHOUSE
CITY OF PRAIRIE DU CHIEN
CRAWFORD COUNTY, WISCONSIN**

PUBLIC WATER SUPPLY - WELL NO. 5
CITY OF PRAIRIE DU CHIEN
CRAWFORD COUNTY, WISCONSIN

DATE		
DECEMBER 2025		
DRAFTER		
PJUN		
CHECKED		
DPOP		
PROJECT NO.		
240564		

104



2 INTERIOR EQUIPMENT SALVAGE & DEMOLITION
C105 N.T.S.

DEMOLITION NOTES

1. AN ASBESTOS AND PB BASED PAINT INSPECTION BY ADVANCED TESTING & INSPECTIONS LLC INDICATED THE INTERIOR WALLS, AND ROOF FLASHING TESTED POSITIVE FOR ASBESTOS AND WILL NEED TO BE ABATED BY A LICENSED COMPANY UNDER A WDNR PERMIT (CONTRACTOR SHALL OBTAIN PERMIT). THIS REPORT IS PROVIDED AS AVAILABLE PROJECT INFORMATION. THERE MAY BE OTHER HAZARDOUS MATERIALS ENCOUNTERED DURING DEMOLITION. CONTRACTOR SHALL PROPERLY REMOVE AND DISPOSE ALL HAZARDOUS MATERIALS FOUND PRIOR TO AND DURING DEMOLITION.
2. THE CONTRACTOR IS REQUIRED TO MAKE EROSION CONTROL INSPECTIONS AT THE END OF EACH WEEK AND WHEN 0.5" OF RAIN FALLS WITHIN 24 HOURS. INSPECTION REPORTS SHALL BE PREPARED AND FILLED AS REQUIRED BY THE WDNR.
3. EXISTING INFORMATION IS BASED ON EXISTING CONDITIONS INFORMATION AVAILABLE AT THE TIME OF DRAFTING OF THIS DEMOLITION PLAN. THE OWNER AND THE ENGINEER DO NOT ASSUME RESPONSIBILITY IN THE EVENT THAT DURING CONSTRUCTION, UTILITIES OTHER THAN THOSE SHOWN MAY BE ENCOUNTERED, AND THAT THE ACTUAL LOCATION OF THOSE WHICH ARE SHOWN MAY BE DIFFERENT FROM THE LOCATIONS SHOWN ON THE PLANS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS INFORMATION TO THEIR OWN SATISFACTION PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DURING CONSTRUCTION TO PUBLIC PROPERTY, PRIVATE PROPERTY, OR UTILITIES.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
5. ALL BUILDING MATERIALS AND EXCESS MATERIAL FROM THE PROJECT SHALL BE PROPERLY REMOVED BY THE CONTRACTOR AND DISPOSED OF OFF SITE.
6. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES REGARDING SERVICE DISCONNECTION AND ABANDONMENT REQUIREMENTS OF THE UTILITY COMPANIES.
7. CONTRACTOR SHALL PROVIDE AND SHALL BE RESPONSIBLE FOR ANY NECESSARY TRAFFIC CONTROL SIGNAGE AND SAFETY MEASURES DURING DEMOLITION AND CONSTRUCTION OPERATIONS WITHIN OR NEAR THE PUBLIC ROADWAY.
8. PERFORM AND VERIFY HAZARDOUS MATERIAL ABATEMENT IS COMPLETE BEFORE BEGINNING BUILDING DEMOLITION.
9. CONTRACTOR TO DETERMINE WHERE REMOVALS MAY RESULT IN STRUCTURAL DEFICIENCY OR UNPLANNED BUILDING COLLAPSE DURING DEMOLITION. COORDINATE DEMOLITION SEQUENCE AND PROCEDURES TO PREVENT STRUCTURE FROM BECOMING UNSTABLE.
10. CONTRACTOR SHALL OBTAIN ANY NECESSARY DEMOLITION PERMITS.
11. PRIOR TO THE USE OF THESE DRAWINGS FOR CONSTRUCTION PURPOSES, THE USER SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF BUILDINGS. IF CONFLICTS EXIST THE USER OF THESE DRAWINGS SHALL CONTACT THE OWNER OR ENGINEER IMMEDIATELY.

EROSION CONTROL MEASURES

1. EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE CITY OF PRAIRIE DU CHIEN EROSION CONTROL ORDINANCE AND CHAPTER NR 216 OF THE WISCONSIN ADMINISTRATIVE CODE.
2. CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH WISCONSIN DNR TECHNICAL STANDARDS (<http://dnr.wi.gov/runoff/stormwater/techstds.htm>) AND WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK.
3. INSTALL SEDIMENT CONTROL PRACTICES (TRACKING PAD, PERIMETER SILT FENCE, ETC.) PRIOR TO INITIATING OTHER LAND DISTURBING CONSTRUCTION ACTIVITIES.
4. THE CONTRACTOR IS REQUIRED TO MAKE EROSION CONTROL INSPECTIONS AT THE END OF EACH WEEK AND WHEN 0.5 INCHES OF RAIN FALLS WITHIN 24 HOURS. INSPECTION REPORTS SHALL BE PREPARED AND FILED AS REQUIRED BY THE DNR AND/OR CITY. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS.
5. EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ACCEPTANCE OF THIS PROJECT. EROSION CONTROL MEASURES AS SHOWN SHALL BE THE MINIMUM PRECAUTIONS THAT WILL BE ALLOWED. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE CITY'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
6. A 3" CLEAR STONE TRACKING PAD SHALL BE INSTALLED AT THE END OF CONSTRUCTION LIMITS TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE ADJACENT PAVED PUBLIC ROADWAY. SEDIMENT TRACKING PAD SHALL CONFORM TO WISCONSIN DNR TECHNICAL STANDARD 1057. SEDIMENT REACHING THE PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORK DAY.
7. CHANNELIZED RUNOFF FROM ADJACENT AREAS PASSING THROUGH THE SITE SHALL BE DIVERTED AROUND DISTURBED AREAS.
8. STABILIZED DISTURBED GROUND: ANY SOIL OR DIRT PILES WHICH WILL REMAIN IN EXISTENCE FOR MORE THAN 7-CONSECUTIVE DAYS, WHETHER TO BE WORKED DURING THAT PERIOD OR NOT, SHALL NOT BE LOCATED WITHIN 25-FEET OF ANY ROADWAY, PARKING LOT, PAVED AREA, OR DRAINAGE STRUCTURE OR CHANNEL (UNLESS INTENDED TO BE USED AS PART OF THE EROSION CONTROL MEASURES). TEMPORARY STABILIZATION AND CONTROL MEASURES (SEEDING, MULCHING, TARLING, EROSION MATTING, BARRIER FENCING, ETC.) ARE REQUIRED FOR THE PROTECTION OF DISTURBED AREAS AND SOIL PILES, WHICH WILL REMAIN UN-WORKED FOR A PERIOD OF MORE THAN 14-CONSECUTIVE CALENDAR DAYS. THESE MEASURES SHALL REMAIN IN PLACE UNTIL SITE HAS STABILIZED.
9. SITE DE-WATERING: WATER PUMPED FROM THE SITE SHALL BE TREATED BY TEMPORARY SEDIMENTATION BASINS OR OTHER APPROPRIATE CONTROL MEASURES. SEDIMENTATION BASINS SHALL HAVE A DEPTH OF AT LEAST 3 FEET, BE SURROUNDED BY SNOWFENCE OR EQUIVALENT BARRIER AND HAVE SUFFICIENT SURFACE AREA TO PROVIDE A SURFACE SETTLING RATE OF NO MORE THAN 750 GALLONS PER SQUARE FOOT PER DAY AT THE HIGHEST DEWATERING PUMPING RATE. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE, A NEIGHBORING SITE, OR THE BED OR BANKS OF THE RECEIVING WATER. POLYMERS MAY BE USED AS DIRECTED BY DNR TECHNICAL STANDARD 1061 (DE-WATERING).
10. RESTORATION (SEED, FERTILIZE AND MULCH) SHALL BE PER SPECIFICATIONS ON THIS SHEET.
11. DISTURBED AREAS SHALL BE RESTORED WITH 6" TOPSOIL, PERMANENT SEED, FERTILIZER AND MULCH.
12. SEED, FERTILIZER AND MULCH SHALL BE APPLIED WITHIN 7 DAYS AFTER FINAL GRADE HAS BEEN ESTABLISHED.
13. FOR THE FIRST SIX WEEKS AFTER RESTORATION (E.G. SEED & MULCH) OF A DISTURBED AREA, INCLUDE SUMMER WATERING PROVISIONS OF ALL NEWLY SEEDDED AND MULCHED AREAS WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.
14. SEDIMENT SHALL BE CLEANED FROM CURB AND GUTTER AFTER EACH RAINFALL AND PRIOR TO PROJECT ACCEPTANCE.
15. ANY PROPOSED CHANGES TO THE EROSION CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY.
16. THE CITY, AND/OR ENGINEER MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES AT ANY TIME DURING CONSTRUCTION.

CONSTRUCTION SEQUENCE:

1. INSTALL SILT FENCE OR SILT SOCK AND TRACKING PAD
2. STRIP TOPSOIL AND STOCKPILE.
3. INSTALL SILT FENCE OR SILT SOCK AROUND STOCKPILES.
4. CONSTRUCT UNDERGROUND UTILITIES.
5. ROUGH GRADE SITE.
6. CONSTRUCT PUMPHOUSE.
7. RE-GRADE SITE.
8. CONSTRUCT PAVEMENT.
9. RESTORE SITE WITH SEED, FERTILIZER & MULCH.

SEEDING RATES:

TEMPORARY:

1. USE ANNUAL OATS AT 3.0 LB./1,000 S.F. FOR SPRING AND SUMMER PLANTINGS.
2. USE WINTER WHEAT OR RYE AT 3.0 LB./1,000 SF FOR FALL PLANTINGS STARTED AFTER SEPTEMBER 15.

PERMANENT:

1. USE WISCONSIN D.O.T. SEED MIX #40 AT 2 LB./1,000 S.F.

FERTILIZING RATES:

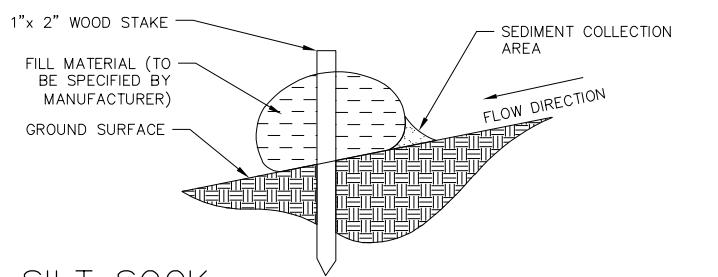
TEMPORARY AND PERMANENT:

USE WISCONSIN D.O.T. TYPE A OR B AT 7 LB./1,000 S.F.

MULCHING RATES:

TEMPORARY AND PERMANENT:

USE $\frac{1}{2}$ " TO 1- $\frac{1}{2}$ " STRAW OR HAY MULCH, CRIMPED PER SECTION 607.3.2.3, OR OTHER RATE AND METHOD PER SECTION 627, WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION



6. A 3" CLEAR STONE TRACKING PAD SHALL BE INSTALLED AT THE END OF CONSTRUCTION LIMITS TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE ADJACENT PAVED PUBLIC ROADWAY. SEDIMENT TRACKING PAD SHALL CONFORM TO WISCONSIN DNR TECHNICAL STANDARD 1057. SEDIMENT REACHING THE PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORK DAY.

7. CHANNELIZED RUNOFF FROM ADJACENT AREAS PASSING THROUGH THE SITE SHALL BE DIVERTED AROUND DISTURBED AREAS.

8. STABILIZED DISTURBED GROUND: ANY SOIL OR DIRT PILES WHICH WILL REMAIN IN EXISTENCE FOR MORE THAN 7-CONSECUTIVE DAYS, WHETHER TO BE WORKED DURING THAT PERIOD OR NOT, SHALL NOT BE LOCATED WITHIN 25-FEET OF ANY ROADWAY, PARKING LOT, PAVED AREA, OR DRAINAGE STRUCTURE OR CHANNEL (UNLESS INTENDED TO BE USED AS PART OF THE EROSION CONTROL MEASURES). TEMPORARY STABILIZATION AND CONTROL MEASURES (SEEDING, MULCHING, TARLING, EROSION MATTING, BARRIER FENCING, ETC.) ARE REQUIRED FOR THE PROTECTION OF DISTURBED AREAS AND SOIL PILES, WHICH WILL REMAIN UN-WORKED FOR A PERIOD OF MORE THAN 14-CONSECUTIVE CALENDAR DAYS. THESE MEASURES SHALL REMAIN IN PLACE UNTIL SITE HAS STABILIZED.

9. SITE DE-WATERING: WATER PUMPED FROM THE SITE SHALL BE TREATED BY TEMPORARY SEDIMENTATION BASINS OR OTHER APPROPRIATE CONTROL MEASURES. SEDIMENTATION BASINS SHALL HAVE A DEPTH OF AT LEAST 3 FEET, BE SURROUNDED BY SNOWFENCE OR EQUIVALENT BARRIER AND HAVE SUFFICIENT SURFACE AREA TO PROVIDE A SURFACE SETTLING RATE OF NO MORE THAN 750 GALLONS PER SQUARE FOOT PER DAY AT THE HIGHEST DEWATERING PUMPING RATE. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE, A NEIGHBORING SITE, OR THE BED OR BANKS OF THE RECEIVING WATER. POLYMERS MAY BE USED AS DIRECTED BY DNR TECHNICAL STANDARD 1061 (DE-WATERING).

10. RESTORATION (SEED, FERTILIZE AND MULCH) SHALL BE PER SPECIFICATIONS ON THIS SHEET.

11. DISTURBED AREAS SHALL BE RESTORED WITH 6" TOPSOIL, PERMANENT SEED, FERTILIZER AND MULCH.

12. SEED, FERTILIZER AND MULCH SHALL BE APPLIED WITHIN 7 DAYS AFTER FINAL GRADE HAS BEEN ESTABLISHED.

13. FOR THE FIRST SIX WEEKS AFTER RESTORATION (E.G. SEED & MULCH) OF A DISTURBED AREA, INCLUDE SUMMER WATERING PROVISIONS OF ALL NEWLY SEEDDED AND MULCHED AREAS WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.

14. SEDIMENT SHALL BE CLEANED FROM CURB AND GUTTER AFTER EACH RAINFALL AND PRIOR TO PROJECT ACCEPTANCE.

15. ANY PROPOSED CHANGES TO THE EROSION CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY.

16. THE CITY, AND/OR ENGINEER MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES AT ANY TIME DURING CONSTRUCTION.

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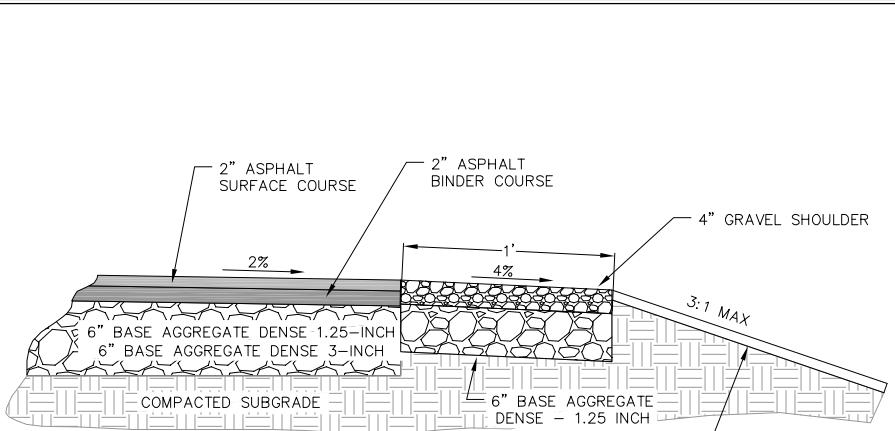
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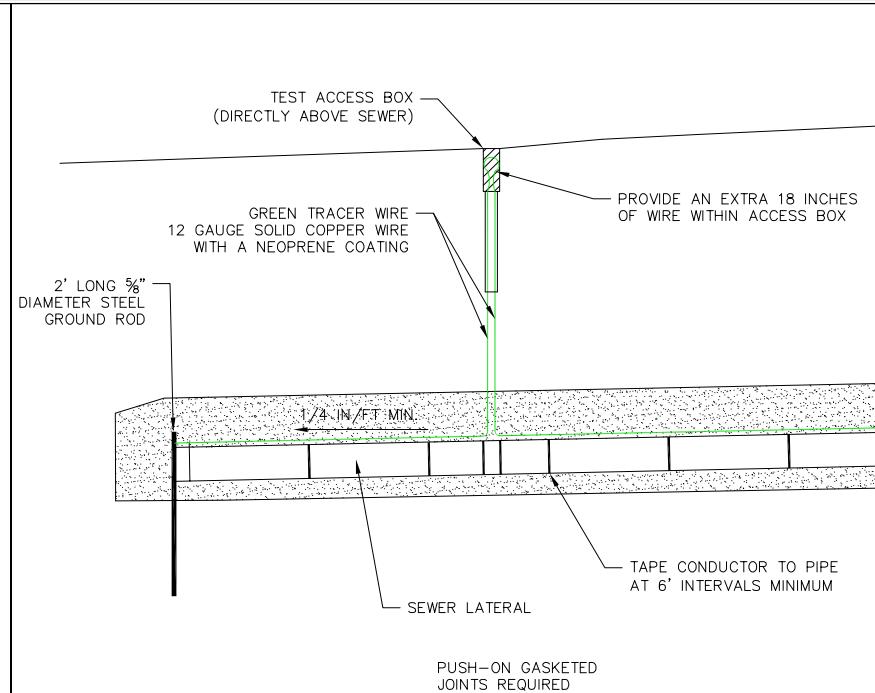
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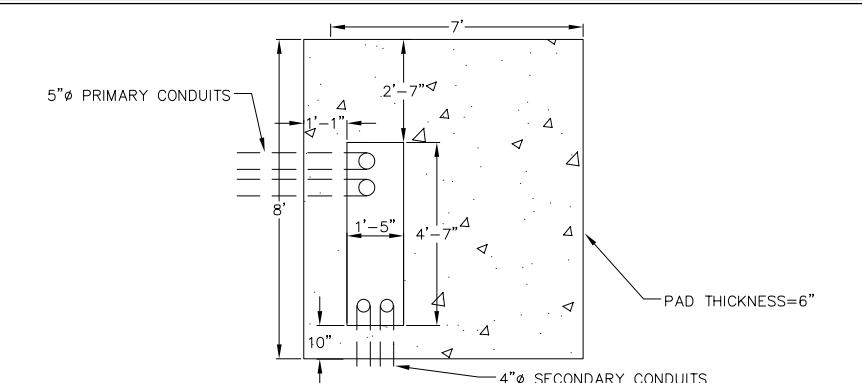


AFTER FINAL SITE GRADING, THE SUB-GRADE SOILS SHOULD BE PROOF-ROLLED WITH A LOADED TRI-AXLE DUMP TRUCK. SOFT/YIELDING AREAS SHOULD BE UNDERCUT/REMOVED AND REPLACED WITH BASE COURSE.

1 SITE PAVEMENT
C202 NOT TO SCALE

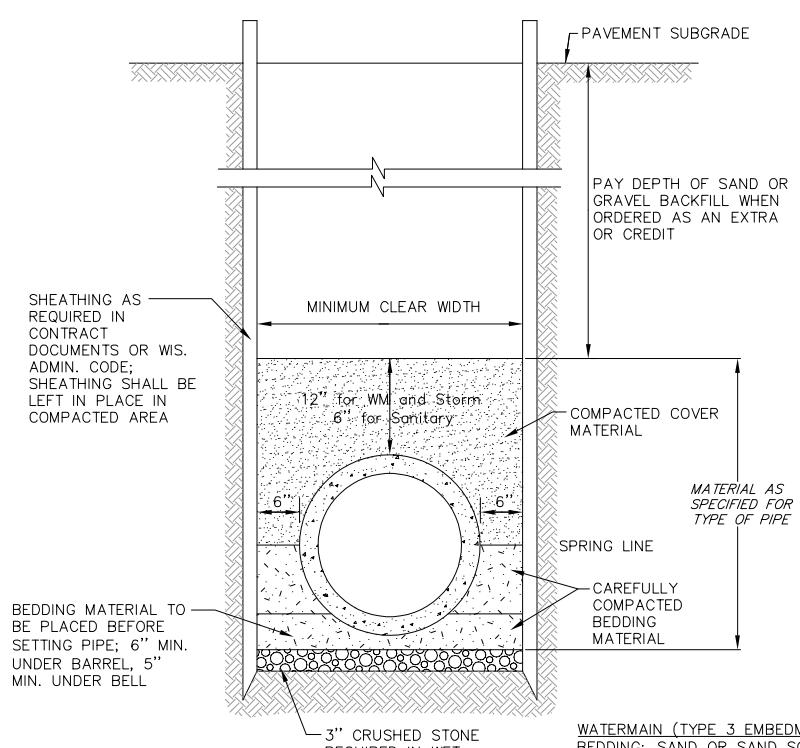


3 SANITARY SEWER LATERAL TRACER WIRE
C202 NOT TO SCALE

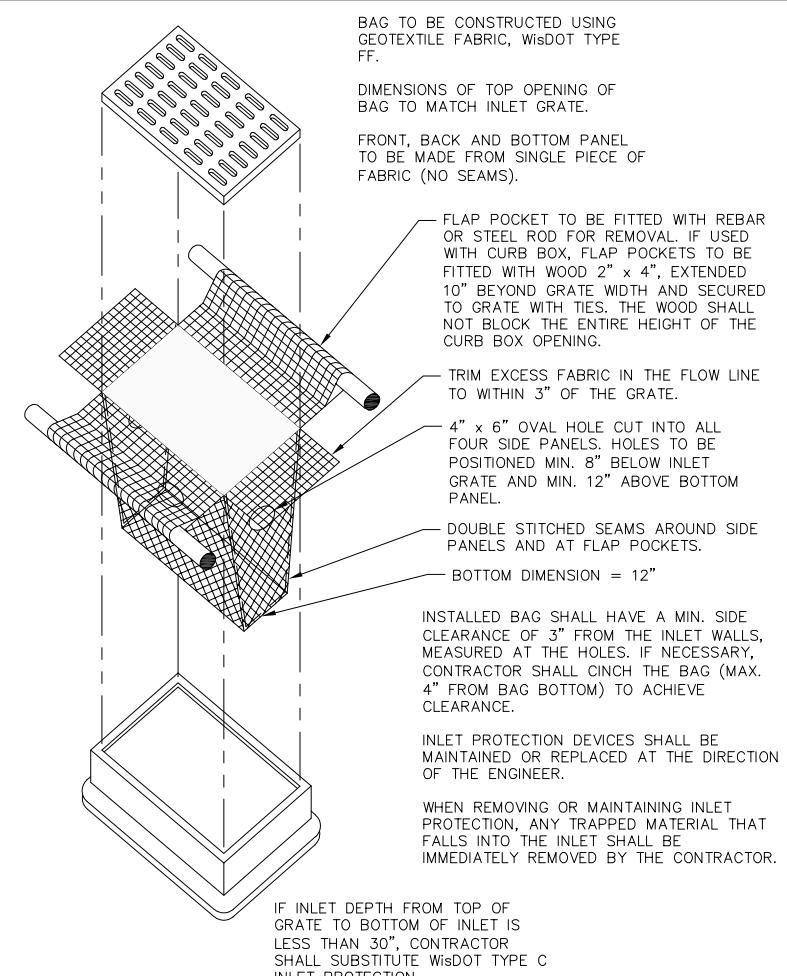


NOTES:
1. ALL CONDUITS SHALL ENTER THROUGH THE WINDOW OPENING PROVIDED IN THE PAD FOUNDATION AND SHALL BE CUT OFF SO THE TOP OF THE CONDUIT IS FLUSH WITH THE SURFACE OF THE PAD.
2. ALL METALLIC CONDUITS (IF INSTALLED) SHALL BE FITTED WITH AN INSULATING BUSHING.
3. WHEN AN OIL SUMP IS REQUIRED, EXCAVATE 18" UNDER, AND AROUND PAD AND FILL WITH COARSE CRUSHED ROCK - CHECK WITH LOCAL BUILDING CODE TO DETERMINE IF REQUIRED.
4. CONCRETE MIX SHALL HAVE A MINIMUM STRENGTH OF 4000 LB./SQ.IN. AFTER 28 DAYS.
5. THE TOP OF THE PAD SHALL BE LEVEL AND ALL EDGES AND CORNERS ROUNDED OFF.
6. THE PAD SHALL BE REINFORCED WITH #4 WIRE, 4"x4" WELDED MESH OR EQUIVALENT MATERIALS WITH ADDITIONAL 3/8 REINFORCING RODS AROUND THE CABLE OPENING. THE MESH SHALL NOT BE LESS THAN 1" FROM THE EDGES AND OPENING, AND 3" BELOW THE SURFACE. IF THE #4 WIRE, 4"x4" MESH IS NOT AVAILABLE, 2 LAYERS OF #10 WIRE, 6"x6" MESH, HORIZONTALLY STAGGERED, MAY BE SUBSTITUTED.

5 TRANSFORMER PAD DETAIL
C202 NOT TO SCALE

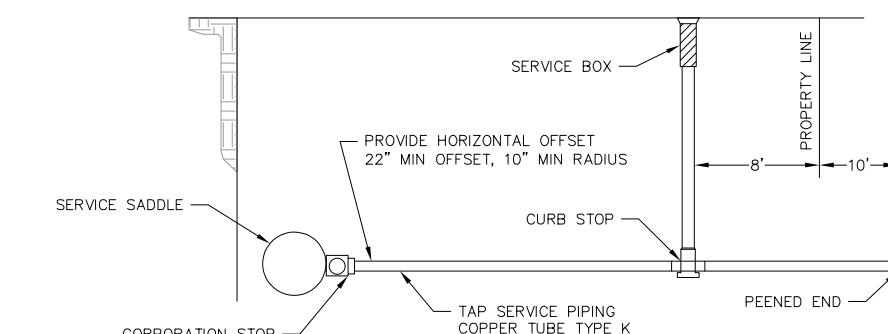


2 STANDARD TRENCH SECTION
C202 NOT TO SCALE



4 INLET PROTECTION TYPE D
C202 NOT TO SCALE

TAPS SHALL BE LOCATED 24" FROM THE BACK OF THE BELL, SPIGOT INSERTION LINE AND JOINT-RESTRAINT HARDWARE. STAGGER MULTIPLE TAPS AND KEEP THEM AT LEAST 18" APART LENGTHWISE IF ALTERNATING TAP LINES. IF TAPS ARE ON THE SAME LINE THE MINIMUM SPACING BETWEEN IS 36"



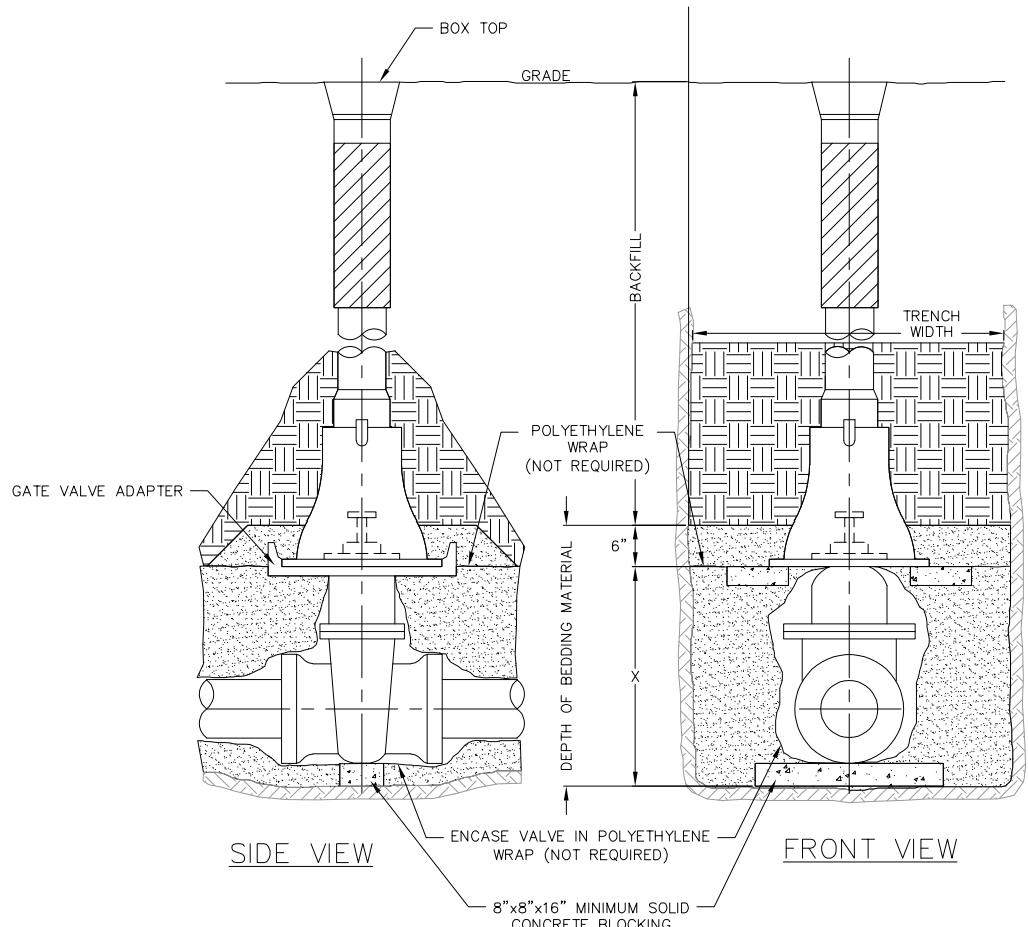
6 C900 - WATER SERVICE
C202 NOT TO SCALE

CONSTRUCTION DETAILS
CITY OF PRAIRIE DU CHIEN, WISCONSIN
CITY OF PRAIRIE DU CHIEN
CRAWFORD COUNTY, WISCONSIN
PUBLIC WATER SUPPLY WELL NO. 5 PUMPHOUSE

REVISIONS	REMARKS	REVISIONS	REMARKS
NO.	DATE	NO.	DATE

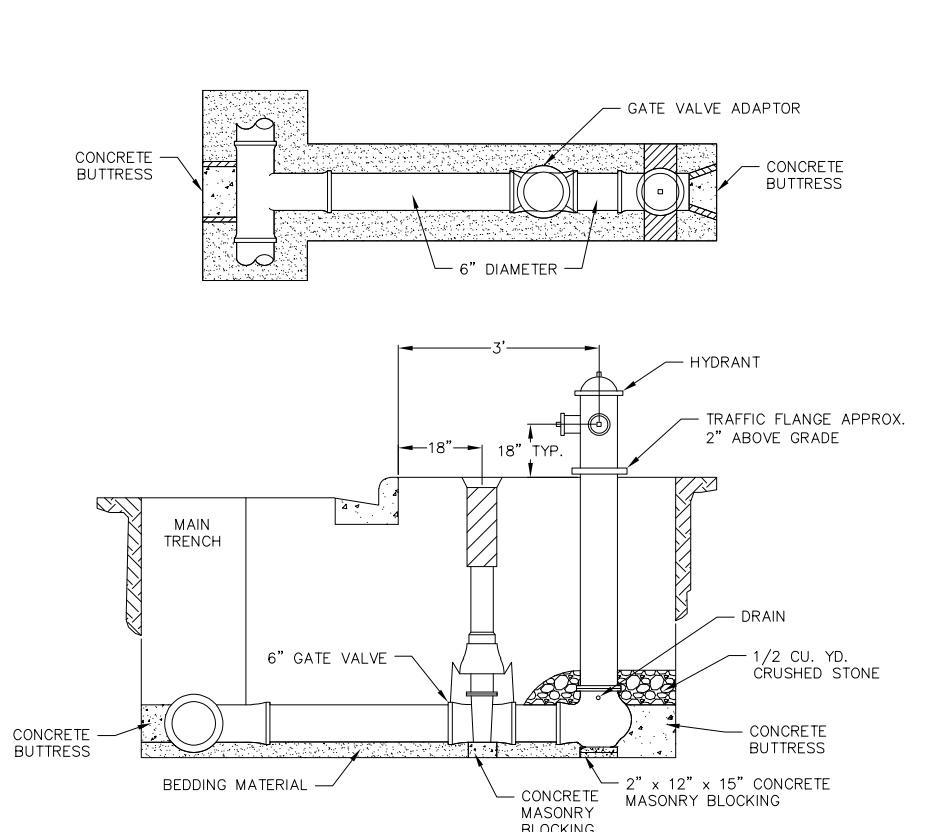
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DRAFTER: JCHA
CHECKED:
PROJECT NO. 240564

C202

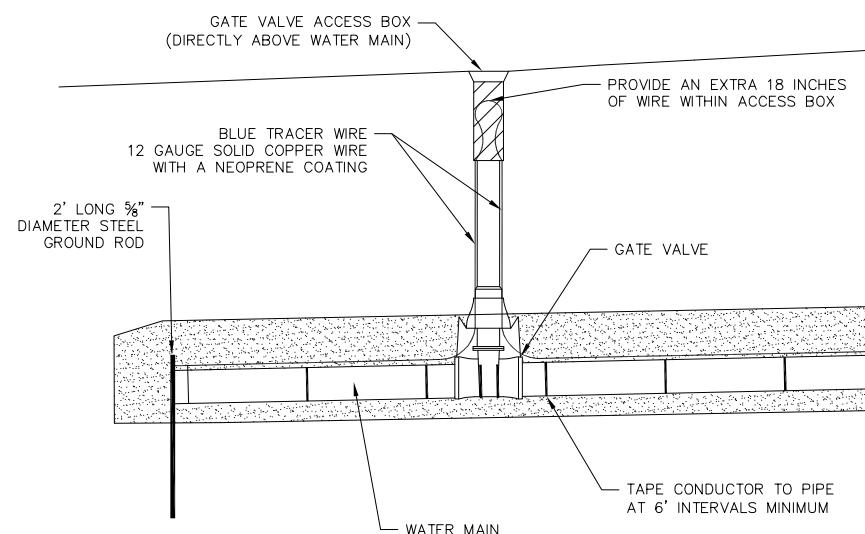


1 STANDARD GATE VALVE BOX SETTING
C203 NOT TO SCALE

PIPE DIA. INCHES	X=SETTING INCHES
2	6
3	7
4	8
6	12
8	13
12	21
16	30



3 STANDARD HYDRANT SETTING
C203 NOT TO SCALE

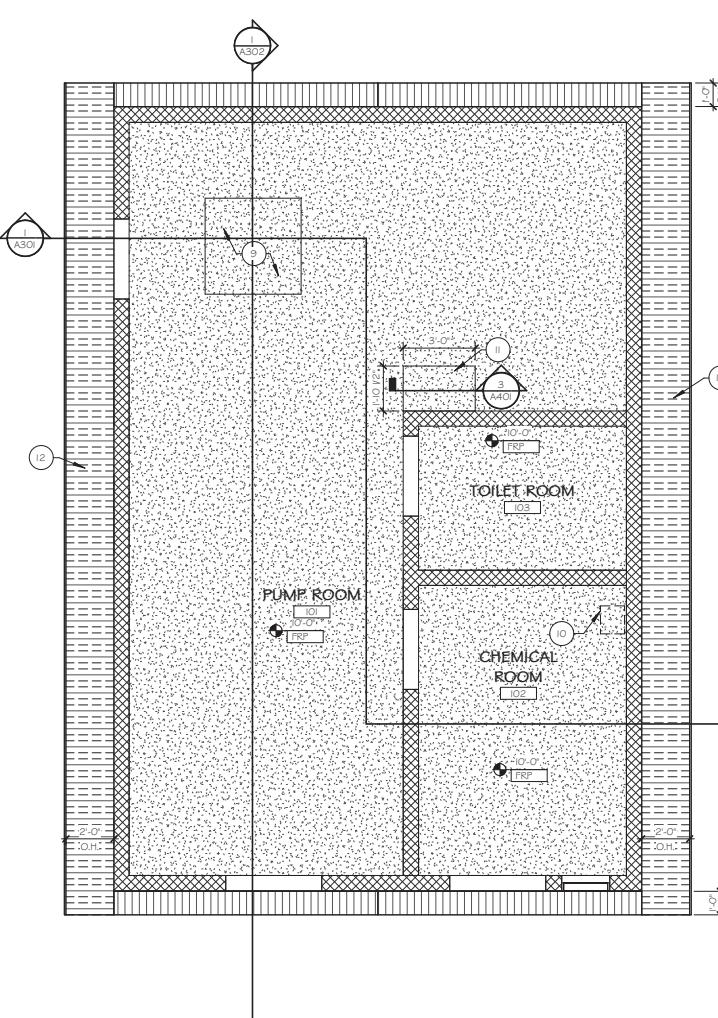
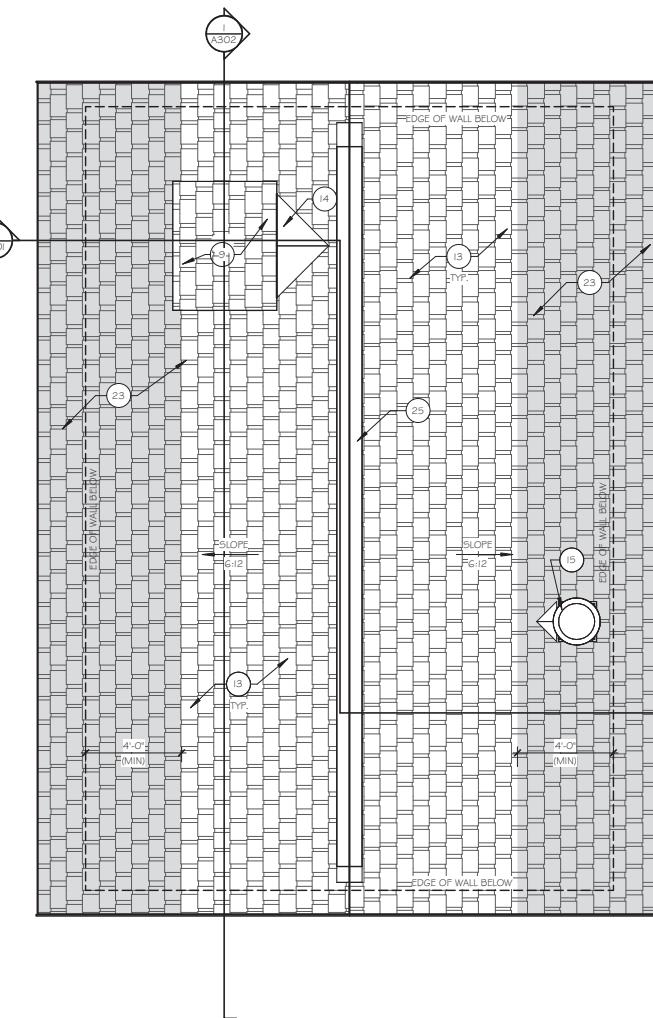
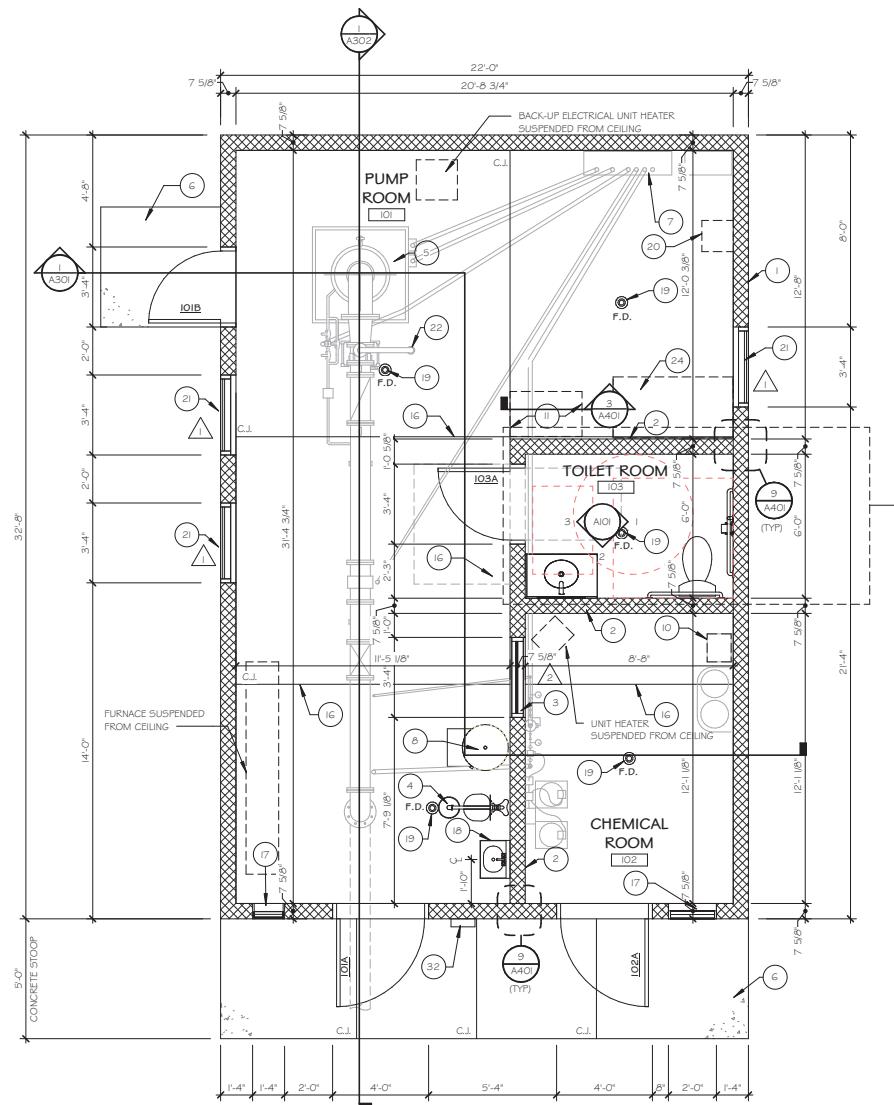


2
C203 WATER MAIN LATERAL TRACER WIRE
NOT TO SCALE



CONSTRUCTION DETAILS

PUBLIC WATER SUPPLY WELL NO. 5 PUMPHOUSE
CITY OF PRAIRIE DU CHIEN
CRAWFORD COUNTY, WISCONSIN



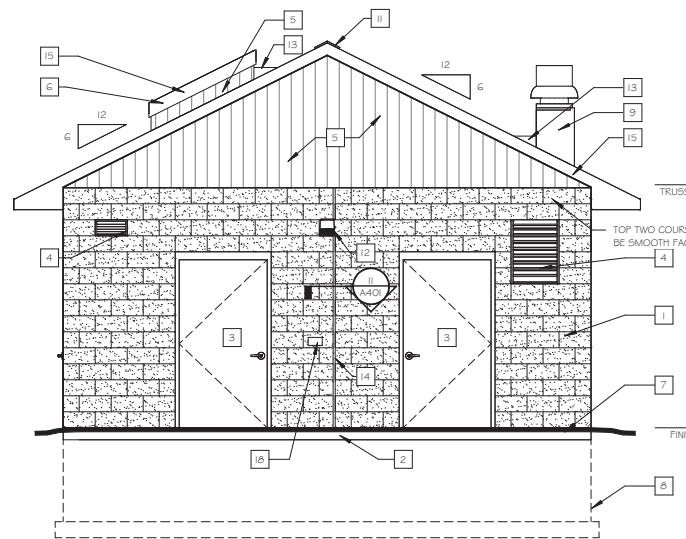
SHEET KEYNOTES	
NOTE: SHEET KEYNOTES LISTED BELOW APPLY TO THIS SHEET ONLY.	
1.	8" SPLIT-FACED CONCRETE MASONRY UNIT WITH INSULATED CORES - TYPICAL EXTERIOR WALL (TOP TWO COURSES TO BE SMOOTH CMU, SEE EXTERIOR ELEVATIONS & DETAILS.)
2.	8" CONCRETE MASONRY UNIT - PAINT PER ROOM FINISH SCHEDULE- TYPICAL
3.	BORROWED LITE ASSEMBLY - REFER TO A401 - WINDOW TYPES.
4.	EMERGENCY EYEWASH FIXTURE - REFER TO PLUMBING PLANS.
5.	CONCRETE WELL PUMP BASE, REFER TO 45101 - FOUNDATION PLAN.
6.	CONCRETE EXTERIOR STOOP, REFER TO 5/5101 - FOUNDATION PLAN.
7.	WALL MOUNTED ELECTRICAL PANELS & PUMP CONTROLS.
8.	DOMESTIC WATER HEATER, SEE PLUMBING PLANS.
9.	NON-FLAMMABLE PATCH ASSEMBLY - REFER TO 1A501 - SECTIONS, LOCATE / CENTER ON PUMP.
10.	ROUGH FRAMED OPENING FOR EXHAUST DUCT CHASE PENETRATION THRU FINISHED CEILING.
11.	ATTIC ACCESS PANEL, SEE DETAIL 3/A401.
12.	VENTILATED SOFFIT PANELS AT EAVE OVERHANG.
13.	ASBESTOS CEMENT ROOF SHEATHING.
14.	ROOF CRICKET - METAL OVER WOOD SHEATHING.
15.	FABRICATED CRICKET AT EXHAUST FAN, SEE MECHANICAL DRAWINGS FOR EXHAUST FAN SIZE & CURB REQUIRED.
16.	CONTROL JOINTS - REFER TO 4/A401.
17.	LOUVER ASSEMBLY - REFER TO MECHANICAL PLANS.
18.	SLAB DRAIN - REFER TO PLUMBING PLANS.
19.	GRAB BAR (FURNISHED BY OWNER).
20.	DEHUMIDIFIER (FURNISHED BY OWNER).
21.	FIXED ALUM WINDOW W/ LOW-E GLAZING, SEE BUILDING ELEVATIONS AND WINDOW TYPES.
22.	HUB DRAIN - REFER TO PLUMBING PLANS.
23.	SHEDDING INDICATED BY PROTECTION MEMBRANE (ICE & WATER SHIELD) TO 4'-0" PAST EXTERIOR WALL.
24.	DESK (FURNISHED BY OWNER).
25.	CONTINUOUS RIDGE VENT.
26.	GRAB BAR PER CODE.
27.	TOILET.
28.	TOILET PAPER HOLDER.
29.	SOLID SURFACE COUNTERTOP, APRON, BACK, AND SIDE SPLASH W/ INTEGRAL BOWL, REFER TO PLUMBING PLANS.
30.	METAL SUPPORT BRACKET.
31.	24"X42" MIRROR.
32.	FIRE DEPARTMENT LOCK BOX.
33.	IX2 TRIM-PAINTED

FLOOR PLAN, RCP, ROOF PLAN & INTERIOR ELEVATIONS
WELL NO.5 PUMP HOUSE
CITY OF PRAIRIE DU CHIEN
CRAWFORD COUNTY, WISCONSIN

DCI
experience architecture design
ARCHITECTURAL DESIGN CONSULTANTS, INC.
30 Wisconsin Drive, P.O. Box 580
Lake Geneva, WI 53141 | Phone: 262.245.6181

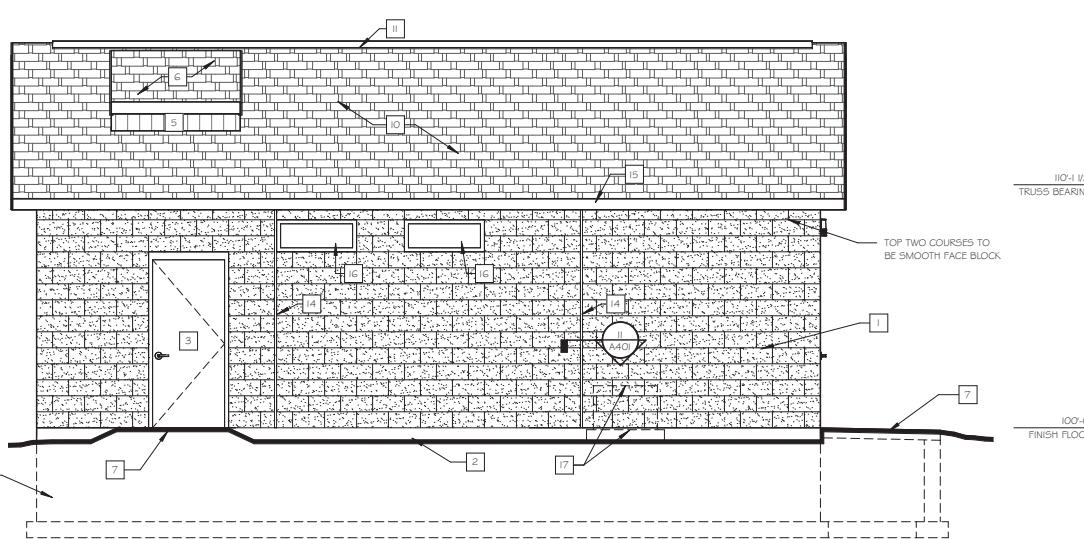
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planners | engineers | advisors

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PROJECT NO.
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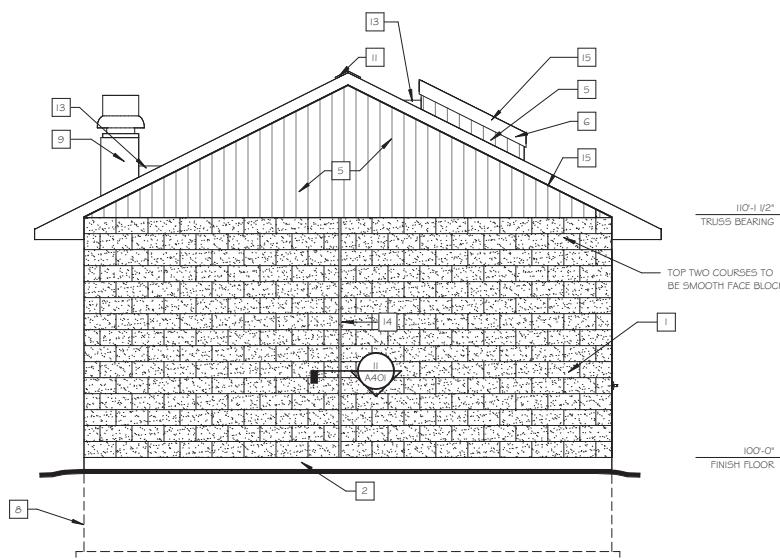
ELEVATION 'A'

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



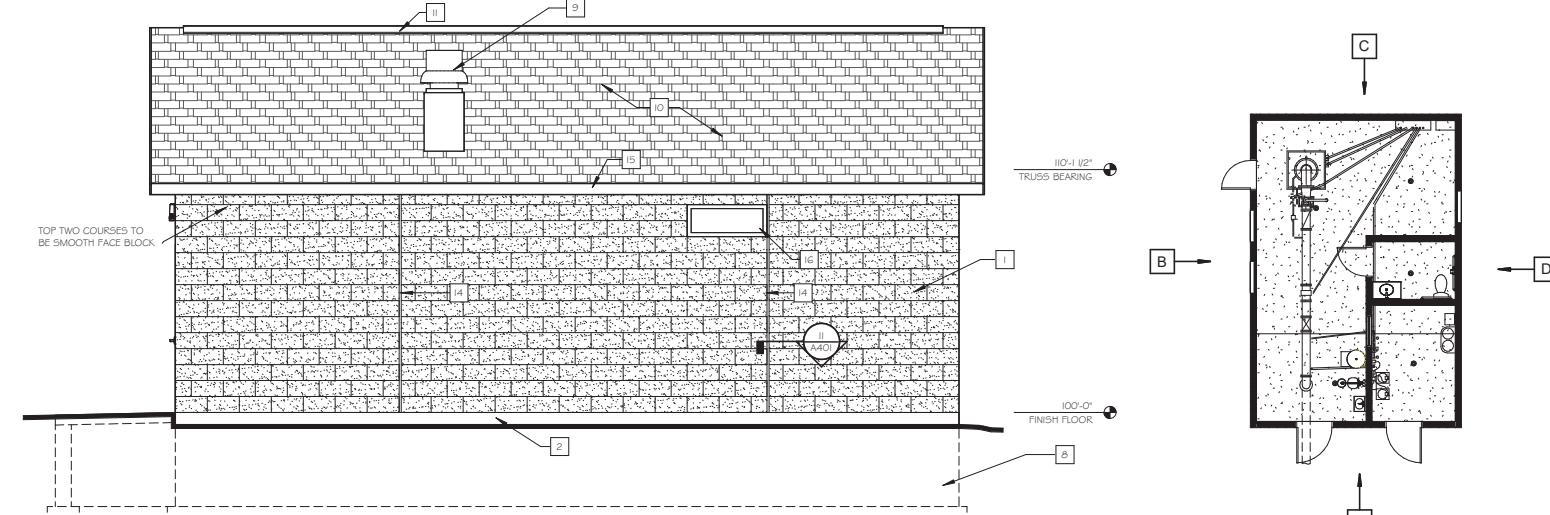
ELEVATION 'B'

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



ELEVATION 'C'

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



ELEVATION 'D'

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

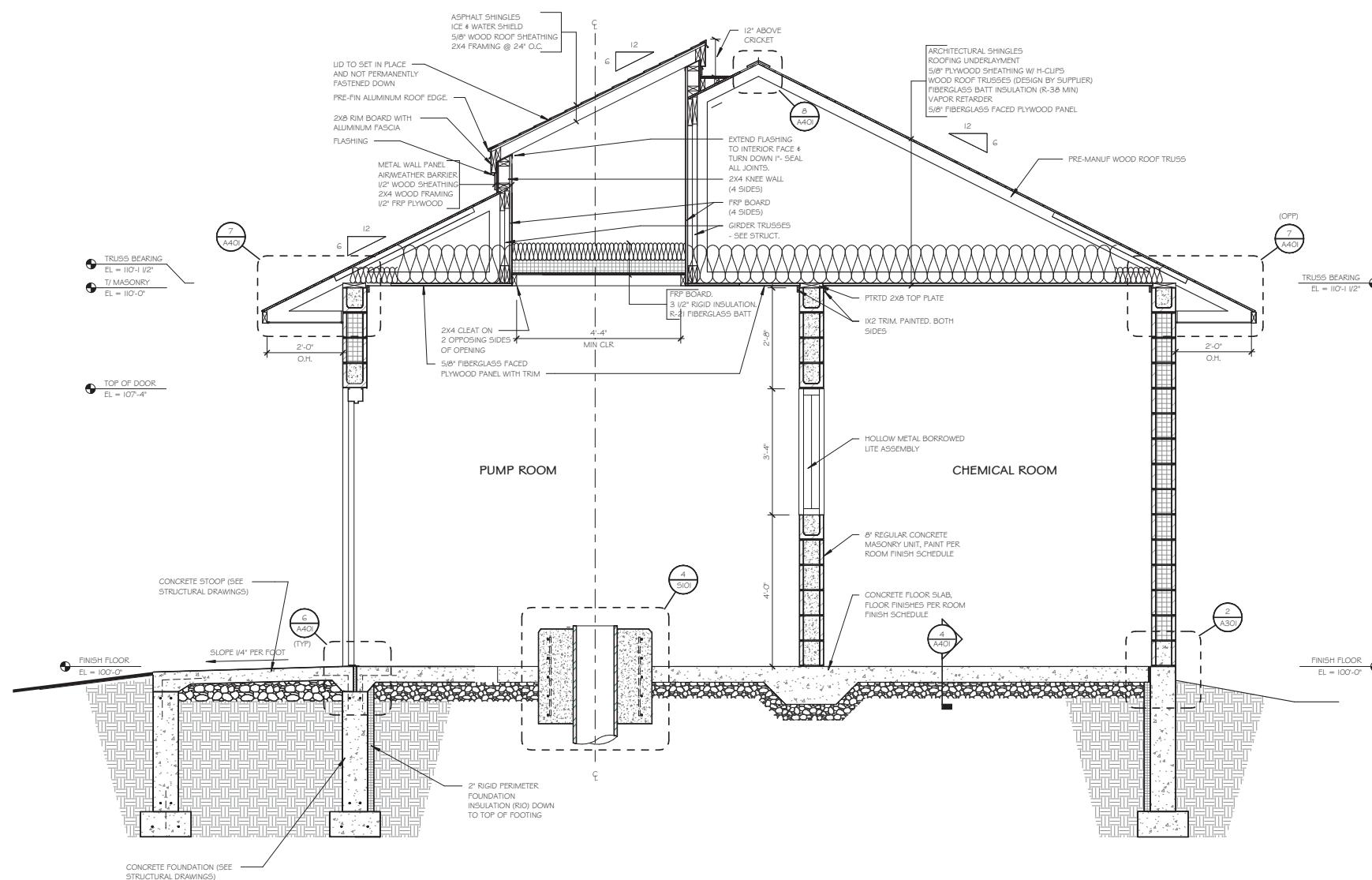
EXTERIOR FINISH SCHEDULE			
BOX	MATERIAL / MANUFACTURER	DESCRIPTION / COLOR	NOTES
1	6" SPLIT-FACED INTEGRAL COLOR CONCRETE MASONRY UNITS, COUNTY MATERIALS.	COLOR SELECTED BY ARCHITECT CIVIL ENGINEER DURING SUBMITTAL PHASE.	---
2	EXPOSED CONCRETE FOUNDATION WALL.	NATURAL GRAY	NOTE: 1
3	DOOR & FRAME ASSEMBLY, REFER TO SHEET A401 - DOOR SCHEDULE.	COLOR SELECTED BY ARCHITECT CIVIL ENGINEER DURING SUBMITTAL PHASE.	---
4	LOUVER ASSEMBLY, PREFINISHED.	COLOR SELECTED BY MECHANICAL ENGINEER CIVIL ENGINEER DURING SUBMITTAL PHASE.	---
5	CORRUGATED METAL EXPOSED FASTENER PANEL, PAC-CLAD, 7/2 PANEL.	COLOR SELECTED BY ARCHITECT CIVIL ENGINEER DURING SUBMITTAL PHASE.	---
6	MULTIPLE MATERIALS, ROOF ACCESS HATCH ASSEMBLY - SEE DETAIL G/A301	MULTIPLE COLORS.	---
7	CONCRETE STOOP.	NATURAL GRAY, MEDIUM BROOM FINISH.	---
8	CONCRETE FOUNDATION SYSTEM (DASHED LINES), REFER TO SHEET S101 - FOUNDATION PLAN	NATURAL GRAY	---
9	EXHAUST FAN CURB WITH SLOPED BOTTOM, INSULATED METAL SEE MECHANICAL DRAWINGS.	NATURAL METAL.	NOTE: 2
10	ASPHALT SHINGLE ROOF SYSTEM.	COLOR SELECTED BY ARCHITECT CIVIL ENGINEER DURING SUBMITTAL PHASE.	---
II	CONTINUOUS RIDGE VENT.	RIDGE VENT COLOR TO MATCH ASPHALT SHINGLE COLOR.	---
12	EXTERIOR LIGHT FIXTURE, LED TYPE, SEE ELECTRICAL DRAWINGS.	SEE ELECTRICAL DRAWINGS.	---
13	ROOF CRICKET WITH METAL FLASHING.	PREFINISHED METAL TO MATCH ASPHALT SHINGLE COLOR.	---
14	JOINT SEALANT.	CONTROL JOINT, TYPICAL, JOINT SEALANT COLOR TO CLOSELY MATCH SPLIT-FACE CMU COLOR.	---
15	PRE-FINISHED ALUMINUM FASCIA	COLOR SELECTED BY ARCHITECT/CIVIL ENGINEER	---
16	FIXED ALUM WINDOW	LOW-E GLAZING. COLOR SELECTED BY ARCHITECT/CIVIL ENGINEER	---
17	ACCU ON GROUND IN FOREGROUND - SEE MECHANICAL PLANS.	SEE MECHANICAL PLANS.	---
18	FIRE DEPARTMENT LOCK BOX	---	---

GENERAL EXTERIOR ELEVATION NOTES:

- PROVIDE SEALANT IN COLOR TO MATCH EXTERIOR WALL CLADDING AROUND ALL NEW ELECTRICAL OUTLETS AND OTHER MECHANICAL | PLUMBING FIXTURES.
- EXTERIOR MEP EQUIPMENT SHOWN ON THESE DRAWINGS ARE SHOWN TO THE BEST ABILITY OF THE ARCHITECT BUT IT REMAINS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE THE WORK AND REVIEW FOR CONFLICTS.
- ALL EXTERIOR MATERIAL COLOR, STYLE, AND SHEEN SELECTIONS TO BE CONFIRMED VIA SHOP DRAWINGS, PRODUCT DATA CUT SHEETS, AND MATERIAL SAMPLE SUBMITTALS OUTLINED IN THE PROJECT SPECIFICATIONS.
- SEE ALSO PROJECT SPECIFICATIONS FOR ADDITIONAL ALLOWED MANUFACTURERS FOR VARIOUS EXTERIOR MATERIALS.

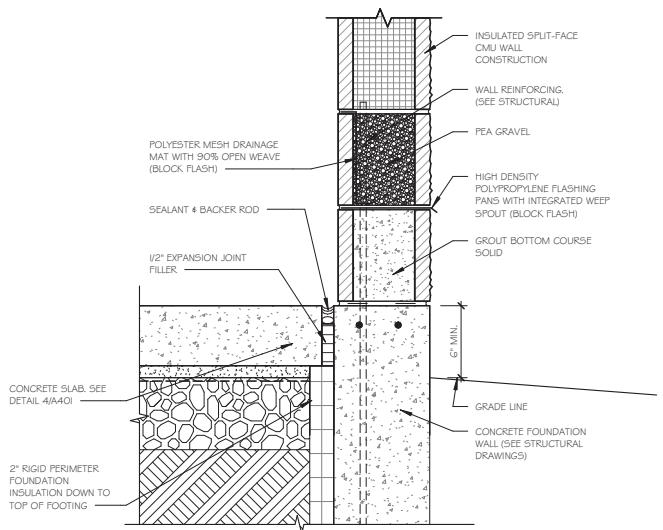
EXTERIOR FINISH SCHEDULE KEYNOTES:

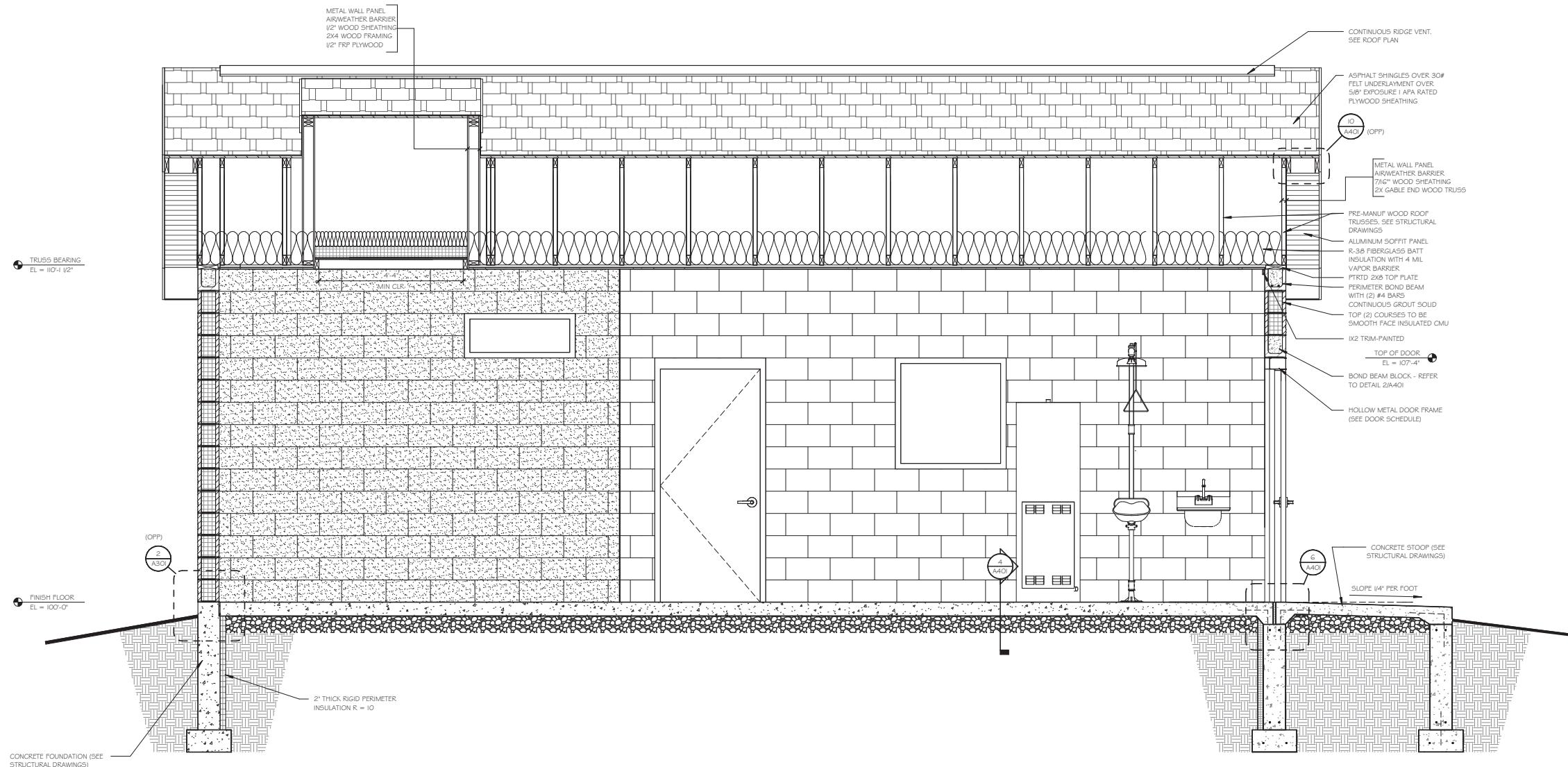
- HOLD GRADE MINIMUM 6" BELOW FINISHED FLOOR WITH EXCEPTION FOR STOOP AREA.
- GENERAL CONTRACTOR SHALL CUT PLYWOOD DECKING WHERE EXHAUST DUCT IS TO BE LOCATED. CURB AND EXHAUST FAN BY MECHANICAL CONTRACTOR.



2 **BASE FLASHING SECTION**

SCALE: 1/2" = 1'-0"





BUILDING SECTION

SCALE: $1/2'' = 1'$

BUILDING SECTION
WELL NO.5 PUMP HOUSE
CITY OF PRAIRIE DU CHIEN
CRAWFORD COUNTY, WISCONSIN



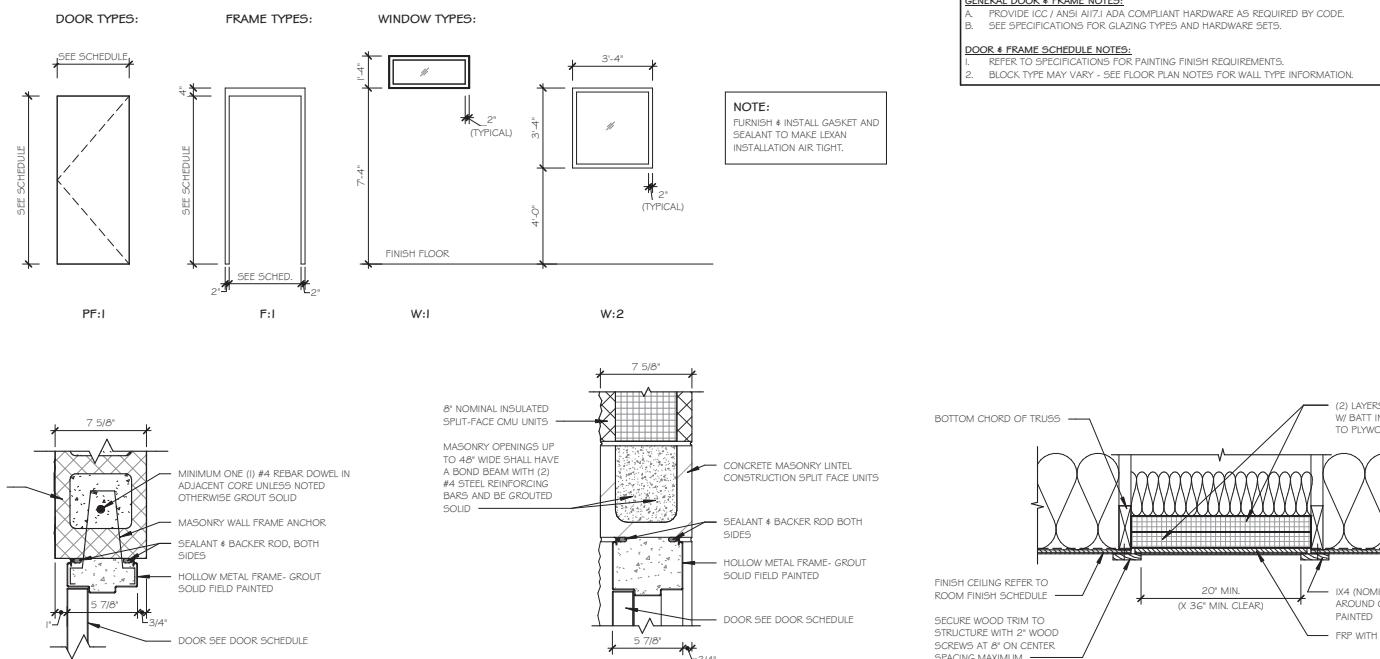
vierbicher
planners | engineers | advisors

DATE
06.30.2025
DRAFTER
J.PHANEUF
CHECKED
M.MAAS
PROJECT NO.
240564
SHEET
A302

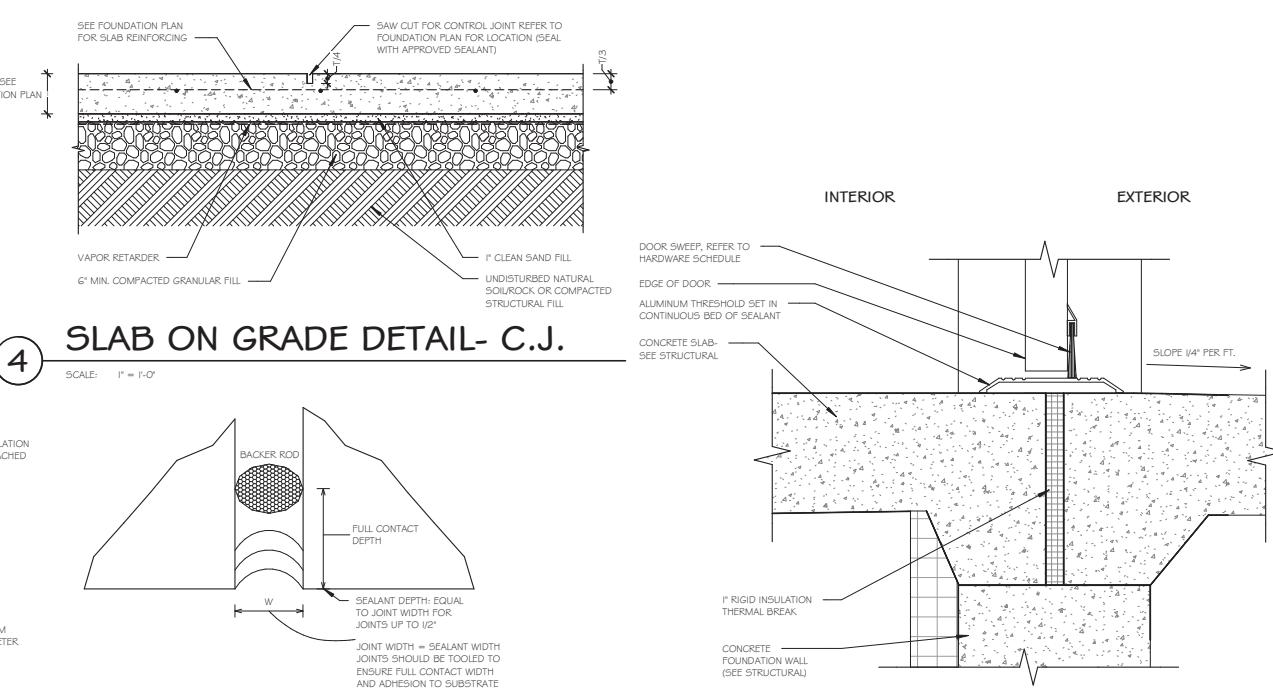
ROOM FINISH SCHEDULE															
NO	NAME	FLOOR	BASE	NORTH WALL		WEST WALL		SOUTH WALL		EAST WALL		CEILING			NOTES
				MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	CEILING MATERIAL	CEILING FINISH	CEILING HEIGHT	
FIRST FLOOR															
I01	PUMP ROOM	SEALED CONCRETE	---	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	FRP	WHITE	10'-0"	EPOXY PAINT
I02	CHEMICAL ROOM	SEALED CONCRETE	---	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	FRP	WHITE	10'-0"	EPOXY PAINT
I03	TOILET ROOM	SEALED CONCRETE	---	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	FRP	WHITE	10'-0"	EPOXY PAINT

ROOM FINISH SCHEDULE ABBREVIATIONS:
 CONC = CONCRETE
 CMU = CONCRETE MASONRY UNITS
 EPOX = EPOXY
 FRP = FIBERGLASS REINFORCED PANEL
 GEP = GELCOATING PAINT
 GCS = GELCOATING SYSTEM BY DOOR MANUFACTURER
 INSUL STL = INSULATED STEEL
 SGP = SEMI-GLOSS FINISH PAINT
 STS = SEMITRANSPARENT STAIN
 STL = STEEL
 TXT = TEXTURED
 WHT = WHITE

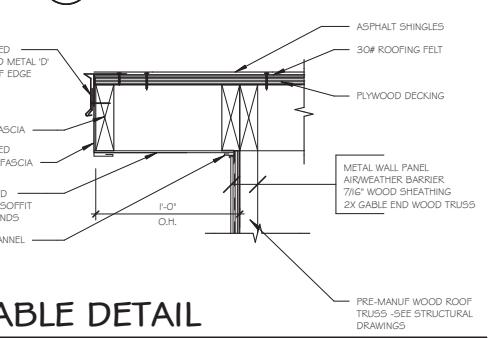
DOOR & FRAME SCHEDULE															
NO.	SIZE			DOOR			FRAME			FIRE RATING	HARDWARE SET	DETAILS			NOTES
	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	GLAZING	TYPE	MATERIAL	FINISH		HEAD	JAMB	THRESHOLD	
I01A	3'-8"	7'-0"	1 3/4"	PF : I	GALVANIZED INSULATED H.M.	G.E.P.	---	F : I	GALVANIZED H.M.	G.E.P.	---	2/A40I	1/A40I	6/A40I	I
I01B	3'-0"	7'-0"	1 3/4"	PF : I	GALVANIZED INSULATED H.M.	G.E.P.	---	F : I	GALVANIZED H.M.	G.E.P.	---	2/A40I	1/A40I	6/A40I	I
I02A	3'-8"	7'-0"	1 3/4"	PF : I	GALVANIZED INSULATED H.M.	G.E.P.	---	F : I	GALVANIZED H.M.	G.E.P.	---	2/A40I	1/A40I	6/A40I	I
I03A	3'-0"	7'-0"	1 3/4"	PF : I	GALVANIZED INSULATED H.M.	G.E.P.	---	F : I	GALVANIZED H.M.	G.E.P.	---	2/A40I	1/A40I	---	I, 2



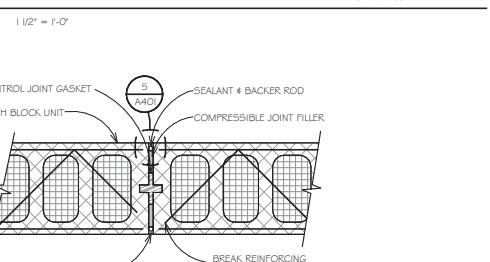
WINDOW SCHEDULE												
NO	SIZE			ELEV	STYLE	MATERIAL	GLAZING	HEAD HT (AFF)	DETAIL			NOTES
	W	H	HT						HEAD	JAMB 1	JAMB 2	
1	3'-4"	1'-4"	W-1	---	FIXED	ALUM	G.I.	8'-8"	---	---	---	---
2	3'-4"	3'-4"	W-2	---	FIXED	H.M.	G.I.	7'-4"	---	---	---	---

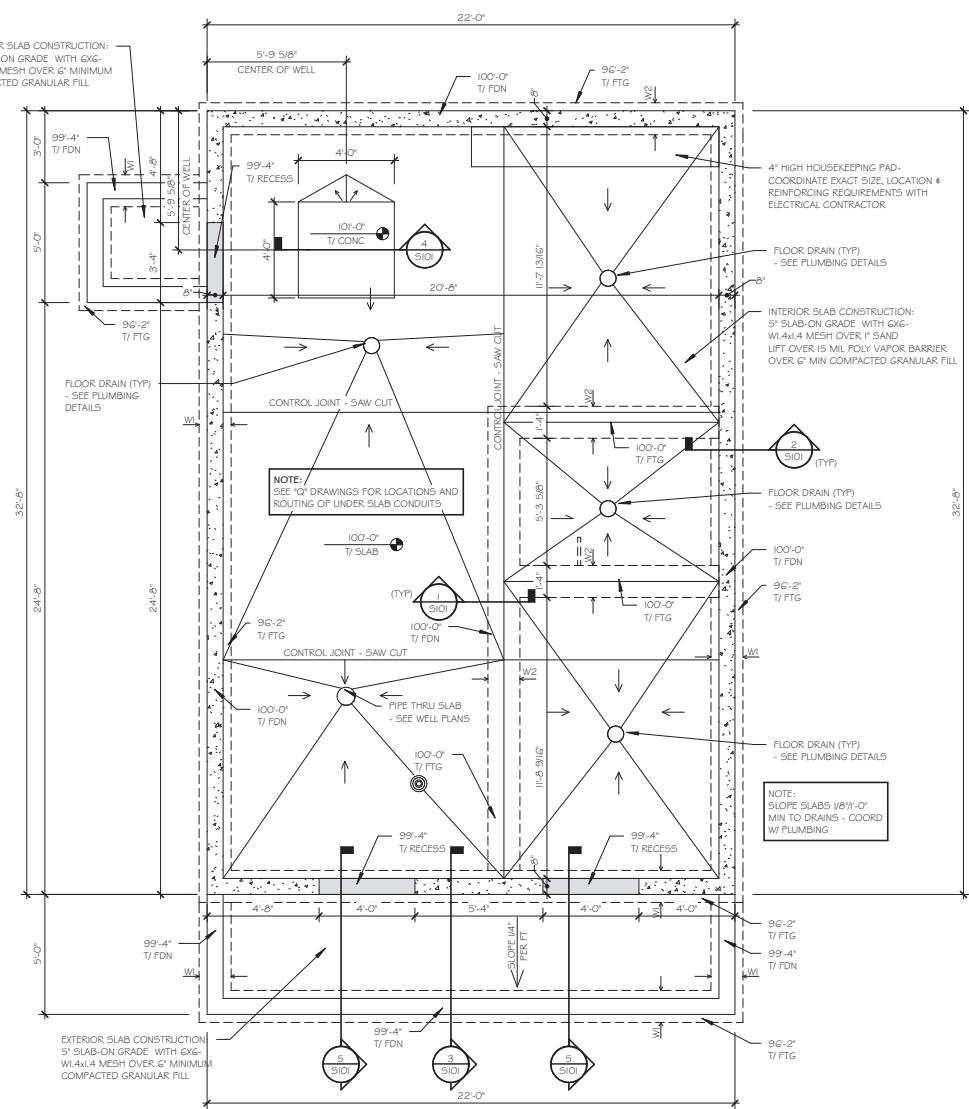


SEALANT JOINT DETAIL



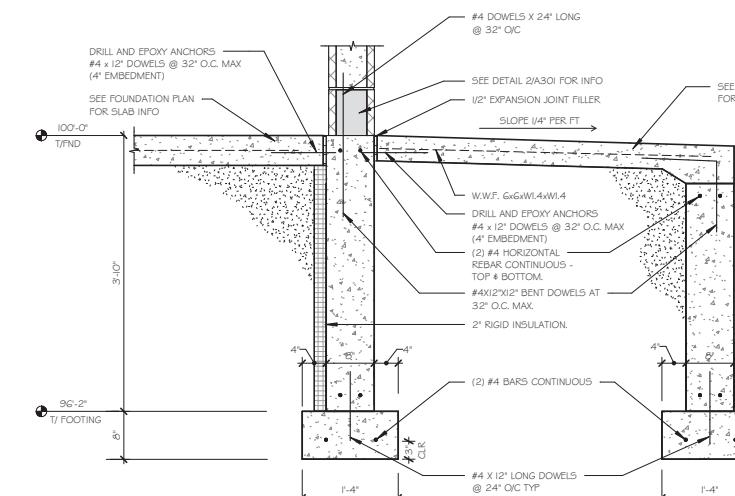
GABLE DETAIL





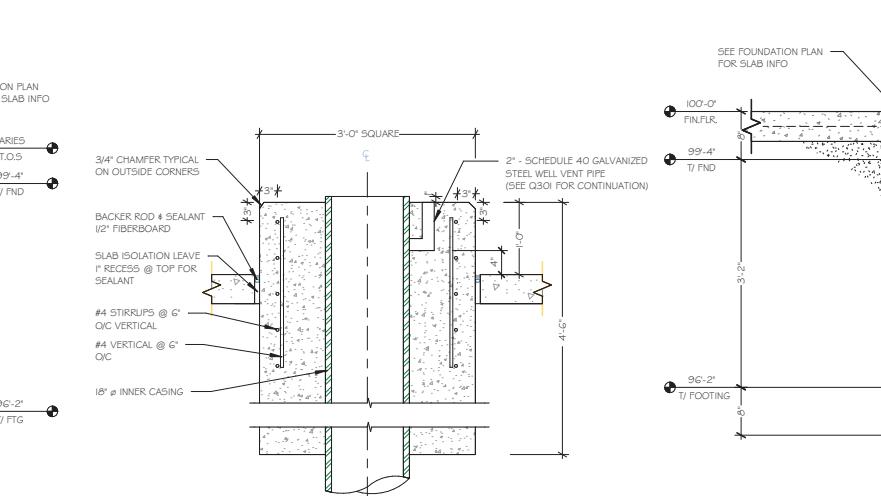
FOUNDATION PLAN

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



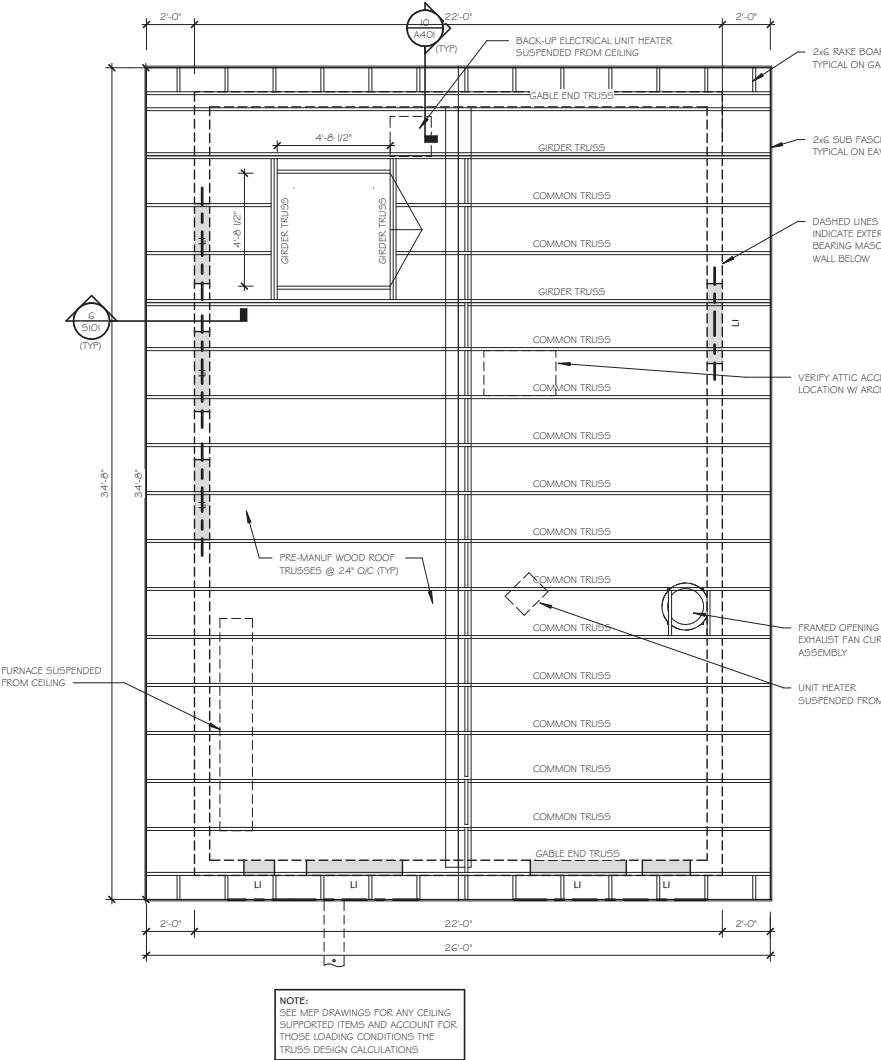
③ EXTERIOR STOOP DETAIL

SCALE: 3/4" = 1'-0"



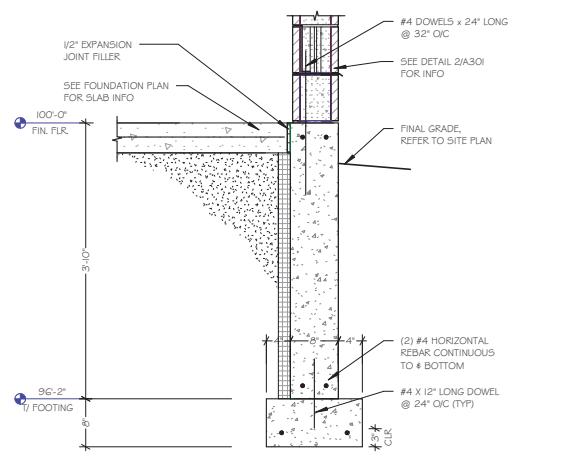
WELL BASE DETAIL

4 SC



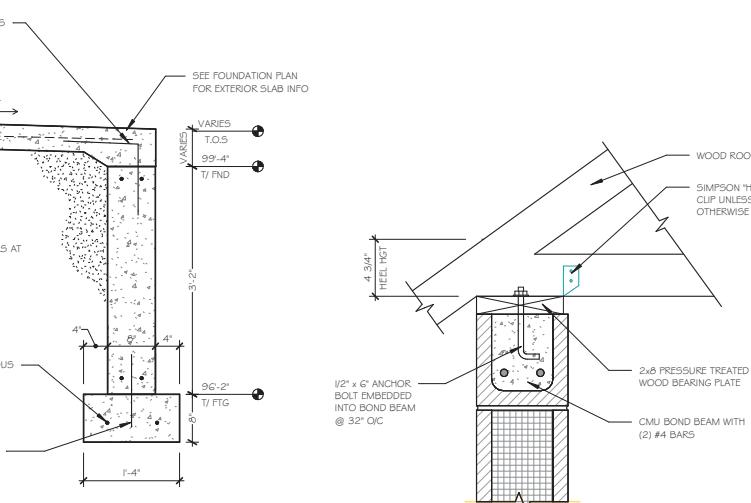
THICKENED SLAB DETAIL

SCALE: 3/4"



EXTERIOR FOUNDATION DETAIL

SCALE: 3/4"



TRUSS CONNECTION DETAIL

SCALE:

REVISIONS		REVISIONS		REMARKS	
NO.	DATE	NO.	DATE		
1		1		△	
2		2		△	
3		3		△	
DATE		06.30.2025			
DRAFTER J.PHANEUF					
CHECKED M.MAAS					
PROJECT NO. 240564					
SHEET S101					

DESIGN DATA

DESIGN CODE:

2015 INTERNATIONAL BUILDING CODE (IBC) W/ WISCONSIN AMENDMENTS

LIVE LOADS:

SLAB ON GRADE

125 PSF

WIND LOAD INFORMATION:

ULTIMATE DESIGN WIND SPEED
120 MPH
DESIGN WIND SPEED
92.95 MPH
BUILDING OCCUPANCY CATEGORY
IV
EXPOSURE CATEGORY
C
ENCLOSURE CATEGORY
PARTIALLY ENCLOSED
INTERNAL PRESSURE COEFFICIENT
+/-0.55
DIRECTIONAL FACTOR (n_d)
0.65
MAIN WIND FORCE RESISTING SYSTEM (MWFRS)
TRANSVERSE DIRECTION

INTERIOR ZONE:

WALL
25 PSFROOF
9.3 PSF

END ZONE:

33.6 PSF

ROOF
10.5 PSF

LONGITUDINAL DIRECTION:

INTERIOR ZONE WALL:
18.4 PSFEND ZONE WALL:
27.7 PSF

COMPONENTS AND CLADDING (GROSS WIND PRESSURES):

(FOR ZONE DEFINITIONS & DETAILS SEE DESIGN GUIDE ACI 356.1 7 SECTION 6)

WIDTH OF PROTECTION COEFFICIENT ZONE (A) 3.0 FT

TRIBUTARY WIND LOAD AREAS:

10 SF 20 SF 50 SF 100 SF

ROOF (GABLE/PIRAMONOSLOPE):

-38.6 PSF -37.8 PSF -36.7 PSF -35.9 PSF

NEGATIVE ZONE 1 -59.9 PSF -55.9 PSF -50.5 PSF -46.5 PSF

NEGATIVE ZONE 2 -63.6 PSF -63.6 PSF -72.6 PSF -67.8 PSF

NEGATIVE ZONE 3 27.91 PSF 26.3 PSF 24.2 PSF 22.6 PSF

OVERHANGS/CANOPIES:

OVERHANG ZONE 2 -58.5 PSF -58.5 PSF -58.5 PSF -58.5 PSF

OVERHANG ZONE 3 -98.4 PSF -86.6 PSF -76.1 PSF -66.5 PSF

WALLS:

100 SF 100 SF 200 SF 500 SF

-42.9 PSF -38.2 PSF -37.8 PSF -35.9 PSF

-51.9 PSF -42.5 PSF -39.6 PSF -35.9 PSF

41.2 PSF 36.5 PSF 95.1 PSF 33.2 PSF

SEISMIC LOAD INFORMATION:

SEISMIC LOAD GROUP/OCCUPANCY CATEGORY IV

SEISMIC LOAD IMPORTANCE FACTOR (Ie) 1.50

SEISMIC SITE CLASS D (ASUMED) 0.062

MAPPED SPECTRAL RESPONSE ACCELERATION (Ss) 0.042

SPECTRAL RESPONSE COEFFICIENT (Gsd) 0.066

SPECTRAL RESPONSE COEFFICIENT (Gsd) 0.067

SEISMIC DESIGN CATEGORY C

ORDINARY REINFORCED MASONRY SHEAR WALLS

BASIC SEISMIC FORCE RESISTING SYSTEM 2

RESPONSE MODIFICATION FACTOR 0.05

SEISMIC RESPONSE COEFFICIENT (Cs) 0.05W

DESIGN BASE SHEAR 0.05W

ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE ANALYSIS

SNOW LOAD INFORMATION:

GROUND SNOW LOAD (Pg) 30 PSF

SNOW EXPOSURE FACTOR (Ce) 1.20

OCCUPANCY CATEGORY IV

SNOW LOAD IMPACT COEFFICIENT (Is) 1.20

THERMAL FACTOR (Cs) 1.00

SLOPED ROOF FACTOR (Cs) 0 PSF

RAIN ON SNOW SURCHARGE 30.5 PSF

FLAT ROOF SNOW LOAD (Pf) 30.5 PSF

UNBALANCED SNOW LOADS: 9.1 PSF

WINDWARD SNOW LOAD 48.7 PSF

LEEWARD SNOW LOAD (RIDGE TO 5.74') 30.5 PSF

LEEWARD SNOW LOAD (5.74' TO EAVE)

ROOF TRUSS DESIGN LOADS:

DESIGN / BALANCED SNOW LOAD (Ps) SEE SNOW LOAD INFO

UNBALANCED SNOW LOADS SEE SNOW LOAD INFO

DESIGN DEAD LOADS:

TOP CHORD 10 PSF

BOTTOM CHORD 10 PSF

DEFLECTION LIMITS:

LIVE LOAD L/360

TOTAL LOAD L/240

COORDINATE SIZE AND LOCATION OF RTU'S, IF ANY, WITH SUPPLIER

SOIL LOAD INFORMATION:

ALLOWABLE NET SOIL BEARING PRESSURE 2,000 PSF (ASSUMED)

MATERIAL DESIGN PROPERTIES

CONCRETE STRENGTHS (AT 28 DAYS):

FOOTINGS Fc = 3,000 psi
CONCRETE WALLS, PIERS, GRADE BEAMS Fc = 3,500 psi
SLAB ON GRADE, TOPPING SLAB Fc = 4,000 psi

REINFORCING STEEL STRENGTHS:

BARS (ASTM A 615, GRADE 60) Fy = 60,000 psi
WWT (ASTM A 185) Fy = 65,000 psi

WOOD STRENGTHS:

DIMENSIONAL LUMBER (SEE PLANS & WOOD FRAMING NOTES)

LAMINATED VENEER LUMBER:

E = 1,000 ksi
Fy = 2,400 psi
Fv = 280 psi
Fc(epi) = 750 psi
Fc(para) = 2,510 psi

PARALLEL STRAND LUMBER:

E = 2,000 ksi
Fy = 1,900 psi
Fv = 400 psi
Fc(epi) = 750 psi
Fc(para) = 2,900 psi

LAMINATED STRAND LUMBER:

E = 1,500 ksi
Fy = 2,250 psi
Fv = 400 psi
Fc(epi) = 750 psi
Fc(para) = 1,950 psi

MASONRY STRENGTHS:

CMU (ASTM C290, GRADE N) Fm = 1,500 psi

MORTAR (ASTM C270)

TYPE M (BELOW GRADE) fy = 2,500 psi

TYPE S (ABOVE GRADE) fy = 1,800 psi

GROUT (ASTM C476) Fc = 3,000 psi

STRUCTURAL STEEL STRENGTHS:

WELDED BEAMS (ASTM A 36, GRADE 50) Fy = 50,000 psi

ANGLES, CHANNELS, PLATES, I-BARS (ASTM A 36) Fy = 36,000 psi

SQUARE & RECTANGULAR HSS MEMBERS (ASTM A500 GRADE B) Fy = 46,000 psi

ROUND HSS MEMBERS (ASTM A500 GRADE B) Fy = 42,000 psi

STEEL PIPE (ASTM A 53, GRADE B) Fy = 35,000 psi

HIGH STRENGTH BOLTS (ASTM A 325)

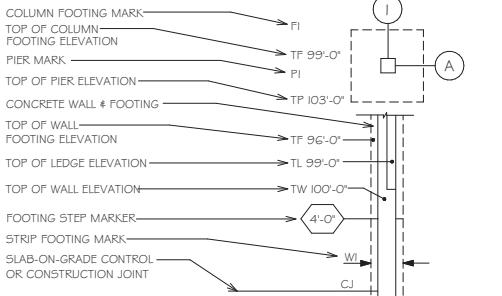
FOUNDATION AND SLAB CONSTRUCTION NOTES

- CONTRACTOR SHALL PROVIDE FROST PROTECTION AND MOISTURE PROTECTION FOR FOOTINGS EXPOSED DURING CONSTRUCTION.
- REFER TO ARCHITECTURAL DRAWINGS OR PLUMBING DRAWINGS FOR SPECIFIC FLOOR DRAIN LOCATIONS AND ELEVATIONS.
- REFER TO STRUCTURAL DETAIL PLAN SHEETS FOR MISCELLANEOUS DETAILS NOT INDICATED ON PLAN.
- BEAR ALL FOOTINGS ON UNDISTURBED SOIL OR COMPAKTED FILLS HAVING A MINIMUM NET ALLOWABLE BEARING CAPACITY INDICATED IN THE DESIGN DATA SOIL LOAD INFORMATION.
- WHERE REQUIRED, REMOVE UNSUITABLE EXISTING SOILS BELOW FOOTINGS, SLABS-ON-GRADE, ETC. TO APPROVED BEARING SOIL; REPLACE WITH ENGINEERED FILL (COMPACTED TO 95% OF THE MODIFIED PROCTOR DENSITY) TO THE REQUIRED FOOTING BEARING ELEVATION. FILL MATERIAL SHALL HAVE A MINIMUM BEARING CAPACITY AS INDICATED IN THE DESIGN DATA SOIL LOAD INFORMATION.
- PROVIDE A MINIMUM OF 6" OF WELL COMPAKTED GRANULAR FILL BELOW ALL SLABS ON GRADE, COMPACT TO 95% OF THE MODIFIED PROCTOR DENSITY.
- DELIVERY TICKETS FOR EACH LOAD OF CONCRETE DELIVERED TO THE JOB SITE SHALL BE FURNISHED UPON REQUEST TO THE ARCHITECT / ENGINEER. TICKET INFORMATION SHALL CONTAIN ALL PERTINENT DESIGN INFORMATION, INCLUDING AMOUNT OF WATER ADDED AT THE JOB SITE, IF ANY.

- FORMWORK FOR FOOTINGS SHALL CONSIST OF A MANUFACTURED FORM SYSTEM OR A MINIMUM 1 1/2" THICK WOOD PLANK SECURED TO WOOD OR STEEL STAKES. POURING TO EXCAVATION BANK MAY NOT BE DONE WITHOUT PRIOR APPROVAL OF THE ARCHITECT / ENGINEER.
- CONCRETE SLABS ON GRADE CONTAINING WELDED WIRE MESH (WWM) SHALL HAVE THE WWM LOCATED IN THE MIDDLE TO THE UPPER 1/3 OF THE SLAB. WWM SHALL BE SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACING NOT TO EXCEED 3 FEET OR IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION. INSTALL WWM IN MAXIMUM LENGTHS POSSIBLE.
- PROVIDE SNAP-OFF PLASTIC FIXED LENGTH CONCRETE FORM TIES WITH 1" BREAK-BACK.
- WHERE FIBERMESH IS SPECIFIED TO BE INCLUDED IN SLABS-ON-GRADE, PROVIDE FIBERMESH 300 AT RATE OF 1.5 LB/CU YD, FOLLOW MANUFACTURER'S INSTRUCTIONS FOR MIXING, PLACING, AND FINISHING.
- PROTECT AND CURE CONCRETE SLABS PER ACI 305.

- MOLD AND CURE THREE CONCRETE TEST CYLINDERS AND PROVIDE ONE SLUMP TEST FOR EVERY 100 CU. YDS. OF CONCRETE POURED FOR EACH TYPE OF MIX DESIGN USED. HAVE INDEPENDENT TESTING AGENCY TEST ONE CYLINDER AT 7 DAYS AND TWO CYLINDERS AT 28 DAYS. PROVIDE TEST RESULTS TO A/E.
- CONTROL JOINTS SHALL BE PLACED IN SLAB-ON-GRADE CONSTRUCTION WITHIN 24 HOURS OF INITIAL POUR.
- PROVIDE MINIMUM COVER PER ACI 318, 7.7.I.
- PROVIDE ISOLATION BOARD WHERE SLABS ABUT VERTICAL SURFACES.

FOUNDATION LEGEND



FOOTING SCHEDULE

MARK	DIMENSIONS			REINFORCEMENT	REMARKS
	WIDTH	LENGTH	DEPTH		
W1	1'-4"	CONT	8"	2- #4 CONT	---
W2	1'-4"	CONT	12"	2- #4 CONT	THICKENED SLAB

REINFORCING COVER

CONCRETE CAST AGAINST EARTH AND PERMANENTLY EXPOSED TO EARTH:

3"

CONCRETE EXPOSED TO EARTH OR WEATHER:

1 1/2"

WALLS, COLUMNS, BEAMS:

#16 THRU #18 BARS

2"

CONCRETE NOT EXPOSED TO EARTH OR WEATHER:

1 1/2"

WALLS:

#14 AND #16 BARS

3/4"

ELEVATED SLABS:

TOP

3/4"

BEAMS:

BOTTOM

1"

COLUMNS:

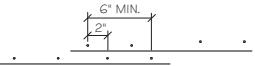
TOP/BOTTOM/SIDE

1 1/2"

SIDES:

1 1/2"

(DIMENSIONS ABOVE ARE MINIMUMS, UNO IN DETAILS)



CAST-IN-PLACE CONCRETE NOTES

- ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM TO THE LOCAL BUILDING CODE REQUIREMENTS AND THOSE OF THE LATEST EDITION OF THE FOLLOWING STANDARDS: ACI 318, ACI 315, ACI 301, AND ACI 307.

- CONTRACTOR SHALL NOTIFY ARCHITECT / ENGINEER AT LEAST 48 HOURS PRIOR TO PLACING CONCRETE TO FACILITATE ON-SITE OBSERVATION OF REBAR.

- WHEN AMBIENT AIR OR CONCRETE TEMPERATURE EXCEEDS 90 DEGREES FAHRENHEIT, STEEL REINFORCING AND/ OR FORMING SURFACES ARE ABOVE 120 DEGREES FAHRENHEIT, OR WHEN WIND VELOCITY, HUMIDITY, OR SOLAR RADIATION CREATE CONDITIONS OF ACCELERATED MOISTURE LOSS AND INCREASE RATE OF HYDRATION, HOT WEATHER CONCRETING REQUIREMENTS SHALL BE FOLLOWED. REFER TO ACI 305.

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2015 IBC TABLE 2304.10.1 - MINIMUM FASTENING SCHEDULE		
CONNECTION TYPE	LOCATION	FASTENING
JOIST TO SILL OR GIRDER	TOENAIL	3-8d COMMON
BRIDGING TO JOIST	TOENAIL EACH END	2-8d COMMON
1x6 SUBFLOOR OR LESS TO EACH JOIST	FACE NAIL	2-8d COMMON
WIDER THAN 1x6 SUBFLOOR TO EACH JOIST	FACE NAIL	3-8d COMMON
2" SUBFLOOR TO JOIST OR GIRDER	BLIND AND FACE NAIL	2-16d COMMON
SOLE PLATE TO JOIST OR BLOCKING	TYPICAL FACE NAIL	16d @ 16" O/C COMMON
TOP PLATE TO STUD	AT BRACED WALL PANELS	3-16d @ 16" O/C COMMON
STUD TO SOLE PLATE	END NAIL	2-16d COMMON
STUD TO STUD	TOENAIL	4-8d COMMON
END NAIL		2-16d COMMON
DOUBLE STUDS	FACE NAIL	16d @ 24" O/C
DOUBLE TOP PLATES	TYPICAL FACE NAIL	16d @ 16" O/C
LAP SPLICE		8-16d COMMON
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	TOENAIL	3-8d COMMON
RIM JOIST TO TOP PLATE	TOENAIL	8d @ 6" O/C
TOP PLATES, LAPS & INTERSECTIONS	FACE NAIL	2-16d COMMON
CONTINUOUS HEADER, TWO PIECES	16" O/C ALONG EDGE	16d COMMON
CEILING JOIST TO PLATE	TOENAIL	3-8d COMMON
CONTINUOUS HEADER TO STUD	TOENAIL	4-8d COMMON
CEILING JOIST, LAPS OVER PARTITIONS	FACE NAIL	3-16d COMMON, MINIMUM
CEILING JOIST TO PARALLEL RAFTER	FACE NAIL	3-16d COMMON, MINIMUM
RAFTER TO PLATE	TOENAIL	3-8d COMMON
1" DIAGONAL BRACE TO EACH STUD AND PLATE	FACE NAIL	2-8d COMMON
1x8 SHEATHING TO EACH BEARING	FACE NAIL	3-8d COMMON
WIDER THAN 1x8 SHEATHING TO EACH BEARING	FACE NAIL	3-8d COMMON
BUILT-UP CORNER STUDS	24" O/C	16d COMMON
BUILT-UP GIRDERS AND BEAMS	FACE NAIL AT TOP & BOTTOM STAGGERED ON OPPOSITE SIDES	20d COMMON @ 32" O/C
	FACE NAIL AT ENDS & AT EACH SPLICE	2-20d COMMON
2" PLANKS	AT EACH BEARING	16d COMMON
COLLAR TIE TO RAFTER	FACE NAIL	3-10d COMMON
JACK RAFTER TO HIP	TOENAIL	3-10d COMMON
FACE NAIL		2-16d COMMON
ROOF RAFTER TO 2x RIDGE BEAM	TOENAIL	2-16d COMMON
FACE NAIL		2-16d COMMON
JOIST TO BAND JOIST	FACE NAIL	3-16d COMMON
LEDGER STRIP	FACE NAIL	3-16d COMMON
WOOD STRUCTURAL PANELS AND PARTICLEBOARD (NAILS SPACED @ 6" O/C AT EDGES, 12" O/C AT INTERMEDIATE SUPPORTS), SUBFLOOR, ROOF, AND WALL SHEATHING (TO FRAMING)	1/2" AND LESS 19/32" TO 3/4" 7/8" TO 1" 1-1/8" TO 1-1/4"	6d COMMON 8d OR 6d COMMON 8d COMMON 10d COMMON
SINGLE FLOOR (COMBINATION SUBFLOOR & UNDERLAYMENT TO FRAMING)	3/4" AND LESS 7/8" TO 1" 1-1/8" TO 1-1/4"	6d DEFORMED SHANK 8d DEFORMED SHANK 10d COMMON
PANEL SIDING (TO FRAMING) (USE CORROSION RESISTANT SIDING / CASING NAIL)	1/2" OR LESS 5/8"	6d 8d
FIBERBOARD SHEATHING (NAILS SPACED AT 3" O/C AT EDGES & 6" O/C AT INTERMEDIATE SUPPORTS)	1/2" 25/32"	6d COMMON 8d COMMON
INTERIOR PANELING (NAILS SPACED AT 6" O/C AT EDGES & 12" O/C AT INTERMEDIATE SUPPORTS)	1/4" 3/8"	4d CASING OR FINISH 6d CASING OR FINISH

FASTENING SCHEDULE NOTES:

- NAILING PER SCHEDULE ABOVE IS TO BE USED WHERE NAILING IS NOT SPECIFIED ON PLANS OR DETAILS. NAILING PER PLANS & DETAILS SUPERCEDES THIS NAILING SCHEDULE UNLESS APPROVED BY THE ARCHITECT / ENGINEER.
- COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE NOTED.

ROOF TRUSS BRACING NOTES

- ALL BRACING SHOWN OR DESCRIBED SHALL BE MINIMUM 2x4 WITH 2-16d IN EVERY TRUSS IT CROSSES.
- ALL TRUSS TOP CHORDS SHALL BE CONTINUOUSLY BRACED BY THE ROOF DECKING.
- ALL TRUSS WEB MEMBERS SHALL BE BRACED @ 4'-0" O/C UNLESS CALCULATIONS SHOW OTHERWISE.
- ALL ROOF TRUSS HORIZONTAL BRACING SHALL BE STIFFENED @ 20'-0" O/C WITH EITHER:
 - DIAGONAL BRACING EXTENDED TO A SHEAR WALL PARALLEL TO THE ORIGINAL BRACING.
 - 1/2" APA RATED SHEATHING EXTENDED TO ROOF DECK OR SHEAR WALL.
- ALL TRUSS BOTTOM CHORDS SHALL BE BRACED @ 8'-0" O/C UNLESS CALCULATIONS SHOW OTHERWISE. CONTINUOUS SHEATHING APPLIED TO BOTTOM CHORD WILL SATISFY THIS BRACING REQUIREMENT.

ROOF TRUSS SUBMITTAL NOTES

NOTE: TRUSS MANUFACTURER MAY NOT DEVIATE FROM THE FRAMING PLANS UNLESS PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER HAS BEEN GIVEN. IT IS THE TRUSS MANUFACTURER'S RESPONSIBILITY TO SEEK SUCH APPROVAL PRIOR TO MANUFACTURE AND INSTALLATION OF FRAMING MEMBERS.

- INFORMATION THAT THE RESPONSIBLE BUILDING DESIGN PROFESSIONAL WILL CHECK FOR COMPLIANCE WITH CONTRACT DOCUMENTS:
 - ERCTION PLAN: SHOWING DIMENSIONED LOCATIONS AND TRUSS IDENTIFICATION.
 - BEARING DETAILS: SHOWING BEARING LENGTH, WIDTH, AND DEPTH INDICATING CONFORMANCE TO DESIGN CALCULATIONS.
 - DESIGN LOADS: ALL DEAD AND LIVE LOADS SHALL BE SHOWN ON THE FRAMING PLAN OR TRUSS ELEVATION INDICATING CONFORMANCE TO TRUSS CALCULATIONS.
 - ALL PERMANENT BRACING: SHOW TOP CHORD, BOTTOM CHORD, AND WEB MEMBER BRACING ON FRAMING PLAN AND TRUSS ELEVATION. SUPPLIER AND INSTALLER OF THIS BRACING SHALL ALSO BE INDICATED.
 - TRUSS DIMENSIONS: SHOW DEPTH, SPAN, BEARING, HEIGHT, AND SLOPES AT ALL CRITICAL POINTS.
- INFORMATION THAT SHALL BE THE RESPONSIBILITY OF THE FABRICATOR AND TRUSS DESIGNER AND SHALL BE PROVIDED WITH THE SHOP DRAWING SUBMITTAL:
 - MEMBER DESIGN: INCLUDING WEB CONFIGURATION, MEMBER SIZE, GRADE OF LUMBER, FABRICATED SPLICES, AND MEMBER BRACING REQUIRED BY TRUSS DESIGN.
 - MEMBER CONNECTIONS: DESIGN AND INDICATE ALL NECESSARY HARDWARE FOR PROPER INSTALLATION OF TRUSSSES INCLUDING, BUT NOT LIMITED TO, GIRDERS, PLY CONNECTIONS, TRUSS-TO-GIRDER CONNECTIONS, TIE-DOWNS, AND FIELD SPLICES.
 - INTERIOR CONNECTIONS: DESIGN AND SHOW DETAIL OF WEB AND CHORD CONNECTIONS, INCLUDING CONNECTOR PLATE SIZES, CAPACITIES, AND BOLT SIZES.
 - ERCTION PLAN: SHOW SPACING AND LAYOUT OF ANY TEMPORARY BRACING REQUIRED FOR ERECTION.
 - STRUCTURAL DESIGN OF TRUSSSES: SUBMIT COMPLETE TRUSS CALCULATIONS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE OF WISCONSIN AND OBTAIN ALL APPROVALS NECESSARY FOR CONFORMANCE TO BUILDING CODE. VERIFY SUBMITTAL AND APPROVAL BY SENDING A COPY TO THE BUILDING DESIGN PROFESSIONAL.
 - PROVIDE CONTRACTOR/INSTALLER WITH ALL DATA NECESSARY FOR PROPER INSTALLATION.

MASONRY WALL CONSTRUCTION NOTES

- PRODUCTION AND CONSTRUCTION OF CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH ACI 530 LATEST EDITION "BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES"; AND NCMA 'TEK MANUAL FOR CONCRETE MASONRY DESIGN AND CONSTRUCTION (LATEST EDITION). VERIFY Fm REQUIRED USING THE UNIT STRENGTH METHOD.
- ALL MASONRY SHALL BE NORMAL WEIGHT UNITS IN ACCORDANCE WITH ASTM C90.
- CMU SHALL BE LAID IN RUNNING BOND WITH TYPE S MORTAR (TYPE M BELOW GRADE).
- CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.
- PROVIDE MINIMUM 1-#4 VERTICAL BAR AT ALL WALL CORNERS, ENDS OF WALLS, AROUND OPENINGS, AND EACH SIDE OF CONTROL JOINTS.
- ALL REINFORCED CELLS SHALL BE GROUTED WITH PEA GRAVEL CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
- HORIZONTAL REINFORCING AND BOND BEAM REINFORCING AT CORNERS SHALL BE LAPPED A MINIMUM OF 48 BAR DIAMETERS, OR 24" INCHES, WHICHEVER IS LARGER.
- CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR, WHEN THE POUR HEIGHT EXCEEDS 4 FEET.
- GROUT LIFTS SHALL NOT EXCEED 4 FEET. CONSOLIDATE GROUT AT TIME OF PLACEMENT.
- FACE SHELLS AND WEB FORMING CELLS SHALL BE FULL-BEDDED IN THE STARTING COURSE ON FOUNDATIONS, AND IN ALL COURSES OF PIERS AND PILASTERS.
- PROVIDE CONTINUOUS 9 GAUGE LADDER TYPE HORIZONTAL JOINT REINFORCING AT 16" O/C VERTICALLY, UNO.
- HORIZONTAL JOINT REINFORCING SHALL BE TERMINATED AT CONTROL JOINTS, BOND BEAM REINFORCING SHALL BE CONTINUOUS.
- REFER TO ARCHITECTURAL DRAWINGS FOR CONTROL JOINT SPACINGS.
- SOLID OR SOLID GROUTED CMU SHALL BE PROVIDED IN COURSES IMMEDIATELY ABOVE.

WOOD FRAMING NOTES

- THE DESIGN AND FABRICATION OF ALL STRUCTURAL FRAMING SHALL COMPLY WITH "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION", AMERICAN FOREST & PAPER ASSOCIATION (AFPA) (CURRENT ADOPTED EDITION).
- LUMBER SHALL BE KILN-DRIED WITH MAXIMUM MOISTURE CONTENT 19%, GRADE MARKED AND TRADE MARKED, ACCORDING TO AFPA REGULATIONS.
- USE PRESSURE TREATED LUMBER FOR ALL PLATES AND SILLS IN CONTACT WITH CONCRETE OR MASONRY. ALSO USE PRESSURE TREATED LUMBER WITH END GRAIN EXPOSED TO CONCRETE OR MASONRY.
- THE DESIGN AND FABRICATION OF ALL PLYWOOD FRAMING SHALL COMPLY WITH "PLYWOOD DESIGN SPECIFICATIONS", AMERICAN PLYWOOD ASSOCIATION.
- SHEATHING SHALL CONFORM TO PRODUCT STANDARD PS-2 AND BEAR THE APA GRADE-TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION.
- CONTRACTOR SHALL CONSTRUCT BUILDING FINISHES TO ACCOMMODATE AN EXPECTED BUILDING SHRINKAGE OF APPROXIMATELY 3/16" TO 3/8" PER FLOOR OF WOOD CONSTRUCTION. PROPER CARE SHALL BE TAKEN TO PREVENT STORED AND INSTALLED LUMBER FROM THE ELEMENTS. DO NOT ALLOW LUMBER TO REST ON THE GROUND OR IN STANDING WATER.
- SHEATHING PANEL EDGES SHALL BEAR ON THE FRAMING MEMBERS AND BUTT ALONG THEIR CENTERLINES. NAILS SHALL BE PLACED NOT LESS THAN 3/8" IN FROM THE PANEL EDGE.
- THE ENDS OF BEAMS OR GIRDERS SUPPORTED ON MASONRY OR CONCRETE SHALL HAVE NOT LESS THAN 4" LENGTH OF BEARING.
- FRAMING MEMBERS:
 - LOAD BEARING WALL STUDS 2 x 5, SPRUCE PINE FIR STUD GRADE KILN DRIED, MOISTURE CONTENT 15% - 19% SIZE AND SPACING AS NOTED ON THE PLANS.
 - TOP & BOTTOM WALL PLATES SAME GRADE AND SPECIES AS STUD 2 x 5 SOUTHERN YELLOW PINE NO. 1/2 FOR SILL PLATES ON CONCRETE.
 - JOISTS / RAFTERS 2 x 5, HEM FIR NO. 2 KILN DRIED; MOISTURE CONTENT 15% - 19% SIZE AND SPACING AS NOTED ON PLANS
 - JOISTS EXPOSED TO WEATHER 2 x 5, SOUTHERN YELLOW PINE NO. 1/2, TREATED SIZE AND SPACING AS NOTED ON PLANS.
- ROOF SHEATHING SHALL BE 5/8" APA RATED SHEATHING ATTACHED TO THE ROOF FRAMING MEMBERS WITH 8D COMMON OR BOX NAILS @ 6" O/C ALONG THE EDGES AND 12" O/C ALONG INTERMEDIATE MEMBERS (1" MINIMUM EMBEDMENT INTO FRAMING MEMBER), STAGGER PANEL EDGES. INSTALL EDGE CLIPS ON PANEL EDGES BETWEEN FRAMING MEMBERS.
- EXTERIOR WALL SHEATHING (WHERE REQ'D) SHALL BE 7/16" APA RATED SHEATHING: ATTACH WITH 8D COMMON OR BOX NAILS @ 6" O/C ALONG EDGES AND 12" O/C ALONG INTERMEDIATE MEMBERS.
- AT A MINIMUM, ALL CONNECTIONS SHALL CONFORM TO 2015 IBC TABLE 2304.10.1. FASTENING SCHEDULE, DRAWING DETAILS SHALL GOVERN IF THEIR CONNECTION CAPACITY IS GREATER THAN THOSE SPECIFIED IN TABLE 2304.10.
- USE JOIST HANGERS DESIGNED FOR GIVEN MEMBER SIZE TO SUPPORT ALL JOISTS / HEADERS FRAMING INTO SIDES OF OTHER MEMBERS.
- PROVIDE CROSS BRIDGING / BLOCKING BETWEEN JOISTS / RAFTERS AT 8'-0" INTERVALS MINIMUM.
- SOLID BLOCKING: ALL SAWN LUMBER ROOF JOISTS / RAFTERS SHALL BE SUPPORTED LATERALLY AT THE ENDS AND AT EACH SUPPORT BY SOLID BLOCKING OR OTHER APPROVED METHODS. SOLID BLOCKING SHALL BE NOT LESS THAN 2" NOMINAL THICKNESS AND THE FULL DEPTH OF THE JOIST.
- DO NOT CUT, NOTCH, OR DRILL HOLES IN SAWN LUMBER BEAMS, JOISTS, OR RAFTERS W/O ARCHITECT'S OR ENGINEER'S APPROVAL. VERIFY WITH MANUFACTURER'S REQUIREMENTS.
- JOIST / RAFTER SUPPORT: SAWN LUMBER ROOF RAFTERS SHALL NOT BE TOENAILED INTO SIDE OF BEAMS, TRUSSES, OR GIRDERS FOR SUPPORT. SUCH RAFTERS SHALL BE SUPPORTED BY JOIST HANGERS, LEDGERS, OR METAL PLATE CONNECTORS OF ADEQUATE STRUCTURAL CAPACITY.

CMU LINTEL SCHEDULE

MARK	SIZE	REINFORCEMENT
LI	8x8" CMU BOND BEAM	(2) #4 BARS

NOTES:

- PROVIDE 8" END BEARING FOR ALL LINTELS, UNO.
- COORDINATE BOTTOM OF LINTEL ELEVATION WITH ARCHITECTURAL PLANS.
- SHORE ALL CMU LINTELS UNTIL GROUT HAS CURED AND REACHED DESIGN STRENGTH.
- DO NOT PLACE CONTROL OR EXPANSION JOINTS AT LINTEL BEARING POINTS OR ANYWHERE WITHIN THE LINTEL.

LIST OF MATERIALS

NUMBER	DESCRIPTION
1	WELL PUMP (10" X 10" DISCHARGE HEAD)
2	WELL VENT W/ 24 MESH NON-CORRODIBLE SCREEN (Min. 24" above finished floor) - 2" MIN. DIA.
3	AIRLINE & DRAWDOWN ASSEMBLY (2 REQ'D)
4	1/2" PRELUBE WATER SUPPLY PIPING. SEE PLUMBING PLANS.
5	1/2" BALL VALVE
6	AIR/VACUUM RELEASE VALVE W/DISCHARGE PIPING TO HUB DRAIN
7	PRELUBE SOLENOID VALVE (INTERWIRED W/ PUMP CONTROLS)
8	10" PIPE SPOOL (D.I. - CLASS 53)
9	10" DIA. FLANGED COUPLING ADAPTER
10	THREADED TIE RODS
11	10" CHECK VALVE
12	PRESSURE GAGE
13	SMOOTH END SAMPLING TAP
14	2" GALV. STEEL PIPE (VERIFY SIZE WITH AIR/VAC. VALVE MANUFACTURER) TERMINATING W/24 MESH NONCORRODIBLE SCREEN DOWN-TURNED OVER HUB DRAIN - LEAVE 2" AIR GAP - TERMINATE 24" ABOVE FLOOR
15	10" FLOW METER W/4 -20 M.A. OUTPUT TRANSMITTER
16	10" GATE VALVE
17	10" x 10" DIA. 90 DEGREE ELBOW (D.I. - CLASS 53)
18	ADJUSTABLE PIPE SUPPORT (3 REQ'D)
19	10" DIA. D.I. PIPE (CLASS 52)
20	1" DIA CHEMICAL POLYETHYLENE TUBING FEED LINE, CONTAINED WITHIN 2" CONDUIT (STUB UP THRU FLOOR 12") SEAL BOTH ENDS
21	CONDUITS FROM CONTROLS TO LEVEL TRANSDUCER & PUMP MOTOR
22	BOOSTER PUMP
23	2" BALL VALVE (VERIFY WITH AIR/VAC. VALVE MANUFACTURER)
24	4" DIAMETER HUB DRAIN PIPE (LOCATE MIN. 2' FROM WELL CASING)
25	CHLORINE INJECTOR
26	1" CONDUIT FROM SOLENOID VALVE TO CONTROLS
27	SCALES
28	SCALE INDICATOR (MOUNTED ON WALL)
29	CHEMICAL ID TAG (MOUNTED ON WALL ABOVE CHEM. FEEDER AND SCALE INDICATOR)
30	10" DIA. 90 DEGREE ELBOW - MECHANICAL JOINT - WITH CONCRETE THRUST BLOCK
31	1" BALL VALVE
32	CHLORINE GAS CYLINDER TANKS
33	1" SOLENOID VALVE (INTERWIRED WITH WELL PUMP & FLOW METER)
34	CONDUITS FROM CONTROLS TO FLOW METER - SIZE & NUMBER AS REQUIRED BY METER MANUFACTURER
35	1-1/2" CORPORATION STOP
36	1-1/2" COPPER PIPE
37	SAMPLE SINK
38	10" PIPE - FLANGE/PLAIN END (D.I. - CLASS 53)
39	1" CONDUIT FROM CONTROLS TO CHEMICAL FEED ROOM
40	1" MIN. DIA. PE OR PVC TANK VENT WITH 24 MESH NON-CORRODIBLE SCREEN COVER ON 90 DEGREE DOWN TURNED ELBOW AT EXTERIOR
41	1/2" MECHANICAL FLOW METER
42	EXTERIOR DOOR WITH VIEWING WINDOW & WARNING SIGN "DANGER-CHLORINE GAS"
43	10" WAFER BUTTERFLY VALVE WITH HANDWHEEL & GEAR BOX
44	LEVEL TRANSDUCER TERMINATION ENCLOSURE
45	PUMP MOTOR POWER CABLE J-BOX (MAY BE FED FROM OVER HEAD CONDUIT IN CEILING)
46	1" WATER SUPPLY PIPE TO CHLORINE BOOSTER PUMP INLET
47	CHLORINATORS
48	SPARE CYLINDERS WITH CHAIN AND WALL HOOKS
49	VACUUM TUBING
50	CHLORINE EJECTOR WITH UNIONS
51	REDUCED PRESSURE BLACKFLOW PREVENTOR
52	PRESSURE RELIEF VALVE
53	FLOWMETER/RATE VALVE
54	10"X12" CONCENTRIC REDUCER
55	CHLORINE GAS LEAK DETECTION MONITOR WITH ALARM HORN & LIGHT
56	CHLORINE GAS LEAK DETECTION SENSOR

PROCESS PIPING FLOOR PLAN

Q101 SCALE: $1/4"$ = $1'-0"$ (22"X34")
 $1/8"$ = $1'-0"$ (11"X17")

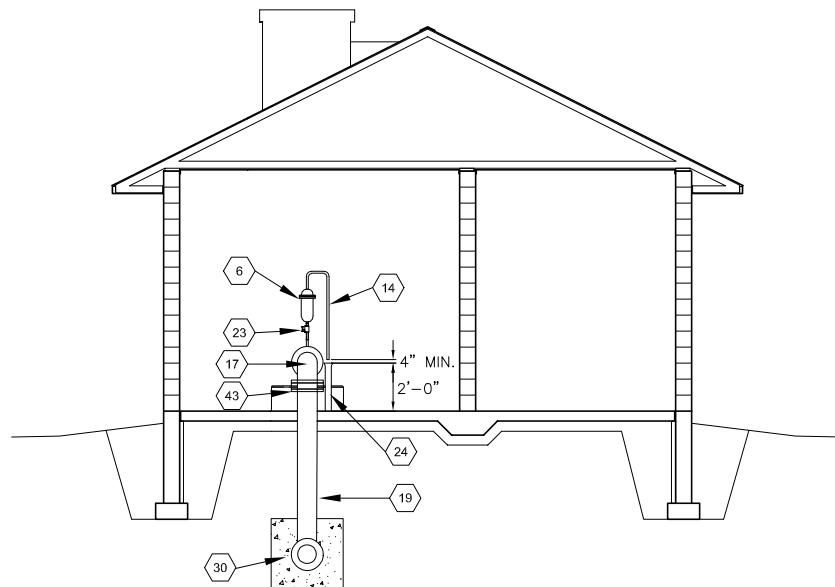
1 PROCESS TYPING FLOOR PLAN

CHLORINE FEED EQUIPMENT LAYOUT

NOT TO SCALE

LIST OF MATERIALS

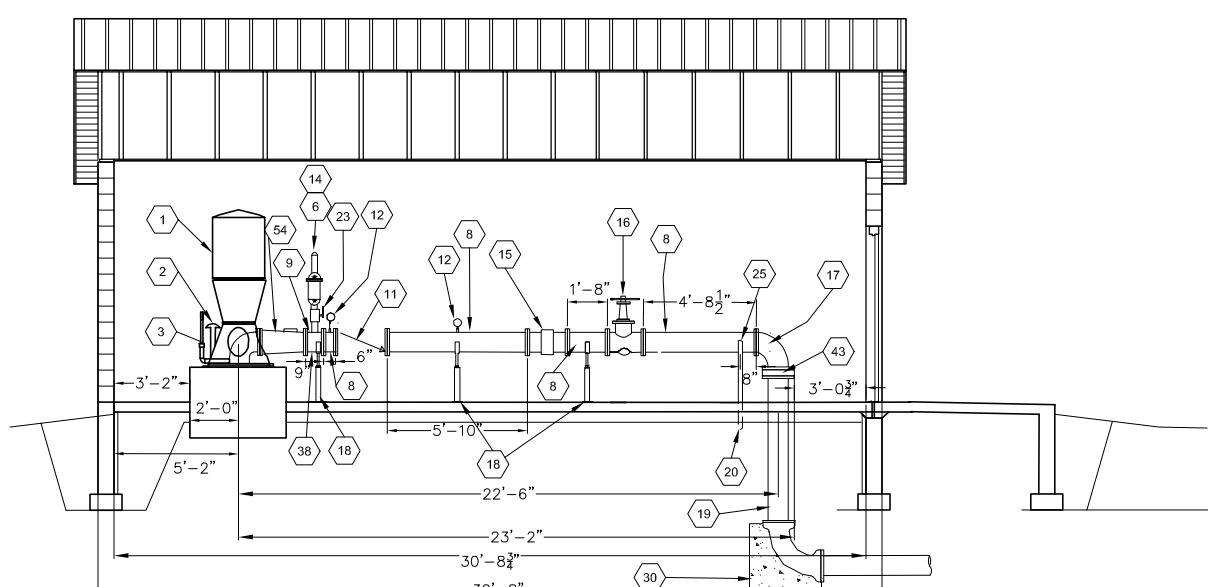
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4 PROCESS PIPING ELEVATION

SCALE: 1/4" = 1'-0" (22"X34")
1/8" = 1'-0" (11"X17")

A graphic scale feet ruler with markings at 0, 2', 4', and 8'. The scale is marked with a dashed line at 4' and a solid line at 8'. The text "GRAPHIC SCALE FEET" is printed above the scale.



PROCESS PIPING ELEVATION

SCALE: 1/4" = 1'-0" (22"X34")
1/8" = 1' 0" (11"X17")

A graphic scale for feet, showing a series of black and white squares. Below the scale, the numbers 0, 2', 4', and 8' are marked with vertical dashed lines.

PIPE SECTION.
—REFER TO 'Q' SERIES
DRAWINGS

✓ INJECTORS MUST BE INSTALLED IN THE LOWER HALF OF THE PIPE WITH NOZZLE PROJECTING UPWARD

CHEMICAL INJECTOR
WITH SUPPLY TUBING
—BACK TO TANK IN CHEMICAL
ROOM. REFER TO
'Q' SERIES DRAWINGS

1 CHEMICAL INJECTOR DETAIL

Q301 Not to Scale

This technical cross-section diagram illustrates the components and dimensions of a well pump system. The diagram shows a vertical assembly of pipes, fittings, and structural elements. Key features include an 8" column pipe, an 18" diameter inner casing, and an 18" diameter well screen. The assembly is supported by a bowl assembly and includes a cone strainer (stainless steel) at the bottom. Various levels are marked along the left side, and specific components are highlighted with red outlines and callouts. A total depth of 573.33 is indicated on the right.

TOP OF PUMP BASE
101'-0" (644.50)

PUMP ROOM FLOOR
100'-0" (643.50)

EXISTING GRADE
(641.30)

60' OF 8" COLUMN PIPE

PUMP SETTING (TOP OF BOWLS)
(584.50)

BOTTOM OF BOWLS (PUMP INTAKE)
(579.50)

ANTICIPATED PUMPING WATER LEVEL @1,200 GPM
(579.30)

BOTTOM OF SUCTION PIPE
(569.50)

BOTTOM OF CASING/TOP OF SCREEN
(568.30)

TOTAL DEPTH OF WELL/BOTTOM OF SCREEN

2'-0"

CONCRETE WELL PUMP BASE
REFER TO DETAIL 4/S101

1'-0"

COMPACTED FILL

1" CONDUIT TO CONTROLS

1/2" EXPANSION JOINT & SEALANT AROUND BASE PERIMETER

NEAT CEMENT GROUT (BY OTHERS)

18" DIAMETER INNER CASING (BY OTHERS)

8" DIAMETER COLUMN PIPE

60' OF 1 1/2" ϕ PVC OR PE TRANSDUCER CARRIER PIPE

BOWL ASSEMBLY

10' OF 8" DIAMETER SUCTION PIPE

CONE STRAINER (STAINLESS STEEL)

573.33

18" DIAMETER WELL SCREEN (BY OTHERS)

BASE BID:

1. PROVIDE A NEW MOTOR.
2. SALVAGE PUMP BASE, COLUMN PIPE, LINE SHAFT, BOWL ASSEMBLY, & SUCTION PIPE FROM WELL NO. 2
3. REBUILD SALVAGED BOWL ASSEMBLY WITH NEW BEARINGS, WEAR RINGS & SHAFT.
4. ADD ONE STAGE TO BOWL ASSEMBLY TO PROVIDE 1,200 GPM AT NEW REQUIRED TDH.

ALTERNATE BID:

1. PROVIDE A NEW MOTOR.
2. SALVAGE PUMP BASE, COLUMN PIPE, LINE SHAFT, & SUCTION PIPE FROM WELL NO. 2.
3. PROVIDE A NEW BOWL ASSEMBLY TO PROVIDE 1,200 GPM AT REQUIRED TDH.

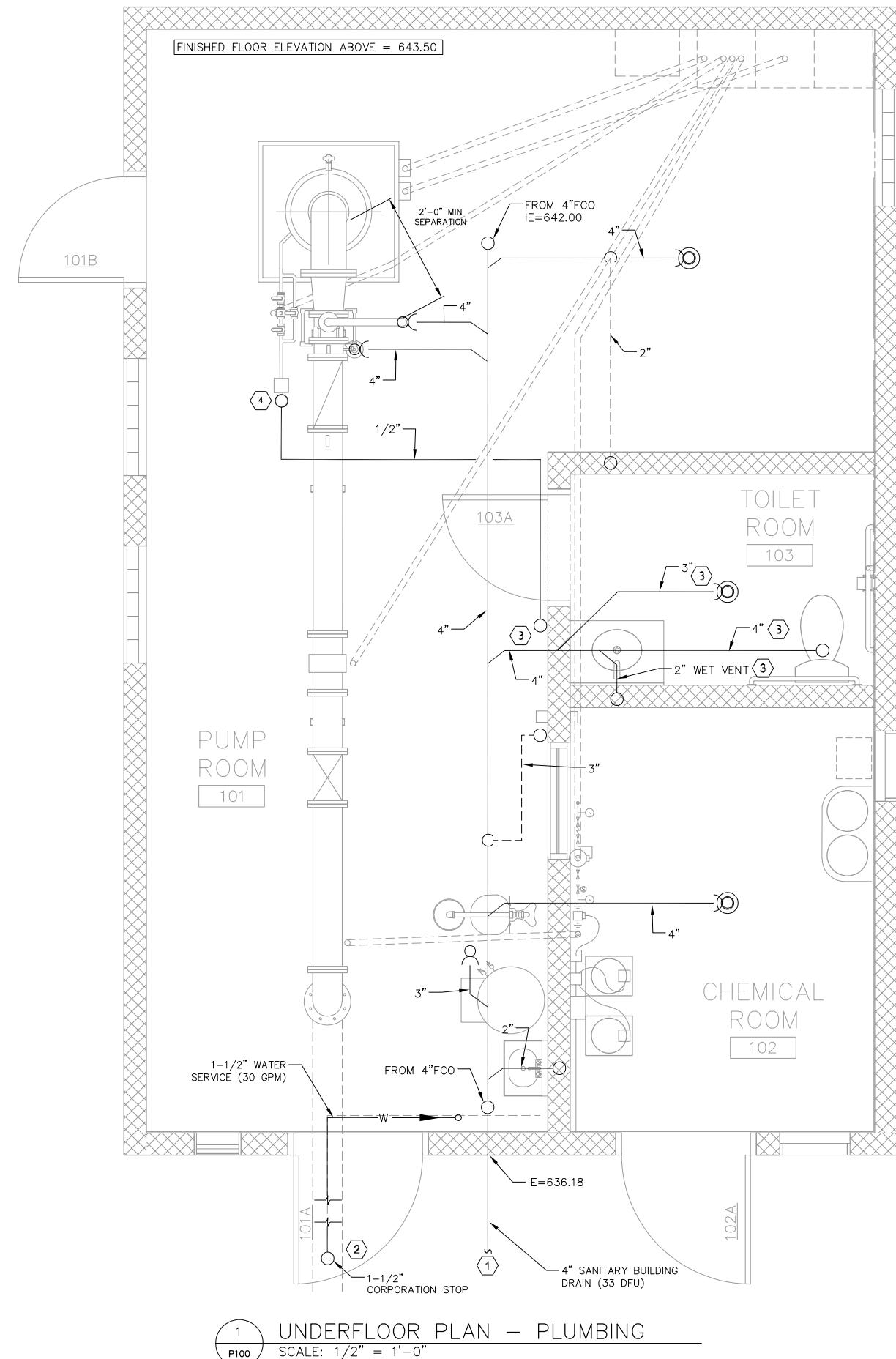
WELL PUMP SECTION

Q301 Not to Scale

WELL PUMP SECTION & PIPING DETAILS
PUBLIC WATER SUPPLY WELL NO. 5 PUMPHOUSE
CITY OF PRAIRE DU CHEN
CRAWFORD COUNTY, WISCONSIN

vierbicher
planners | engineers | advisors

REVISIONS		REMARKS		REMARKS	
NO.	DATE	REMARKS	NO.	DATE	REMARKS
		△ 10/06/25		PER TEST WELL	
DATE JUNE 2025					
DRAFTER CLEN/PJUN					
CHECKED DPOP					
PROJECT NO. 240564					

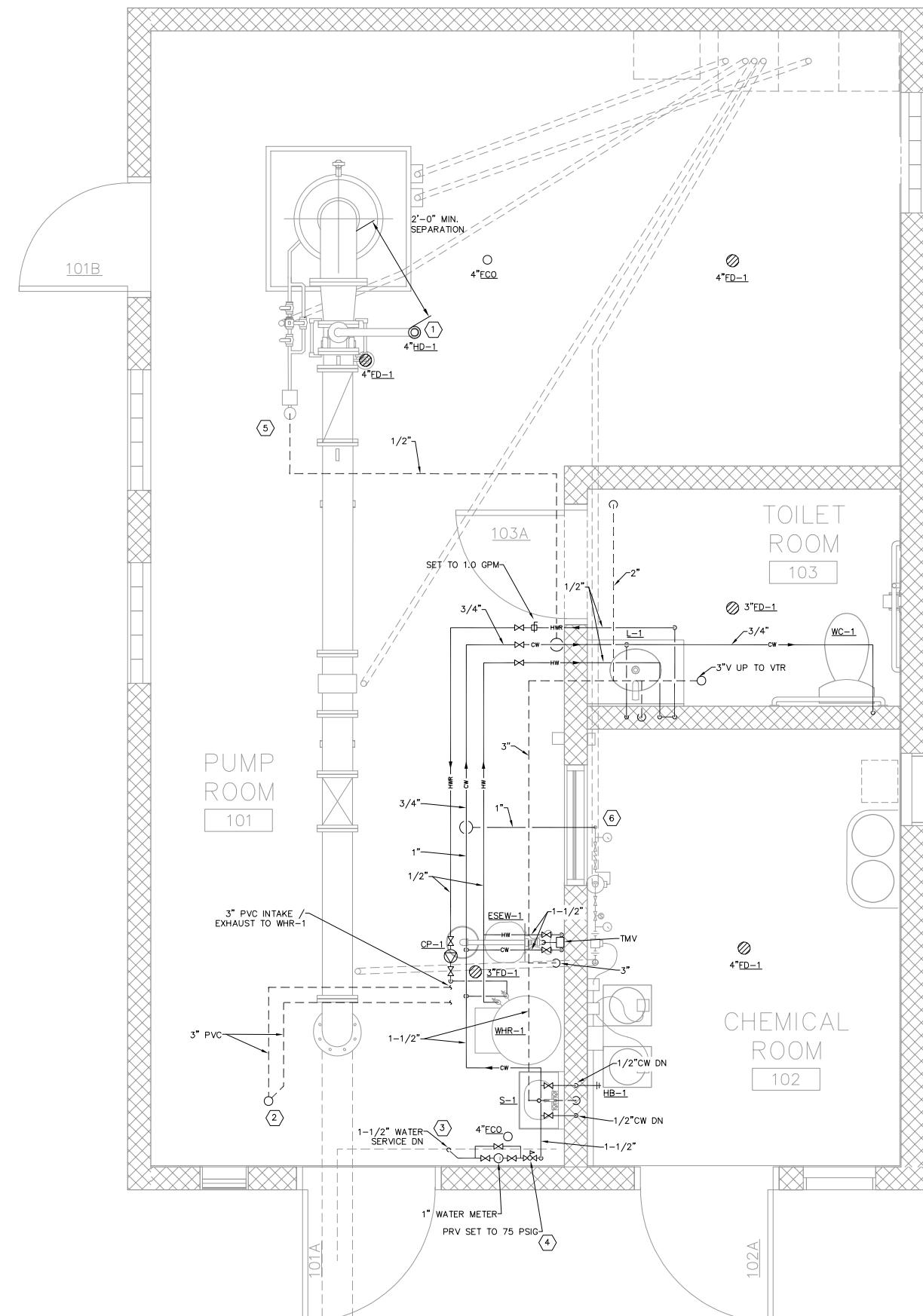


KEYED NOTES:

- ① INSTALL UTILITY TO 5'-0" FROM BUILDING PERIMETER, CONTINUATION BY SITE UTILITY CONTRACTOR. COORDINATE LOCATION AND DEPTH WITH SITE UTILITY CONTRACTOR.
- ② CONNECT 1-1/2" BUILDING TO WATER SERVICE TO WATER MAIN. SEE C103.
- ③ BLACK OR GRAY WASTE WATER (FROM TOILET ROOM) SHALL MAINTAIN A MINIMUM 8'-0" OF SEPARATION FROM WELL CASING.
- ④ CONNECT TO WELL PUMP PRELUBE WATER METER. SEE Q101.

UNDERFLOOR PLAN - PLUMBING
PUBLIC WATER SUPPLY - WELL NO. 5 PUMPHOUSE
CITY OF PRAIRIE DU CHIEN
CRAWFORD COUNTY, WISCONSIN

REVISIONS	REMARKS	NO.	DATE	REVISIONS	REMARKS
1	7/10/25	PER WNR			



1 FLOOR PLAN - PLUMBING
P101 SCALE: 1/2" = 1'-0"

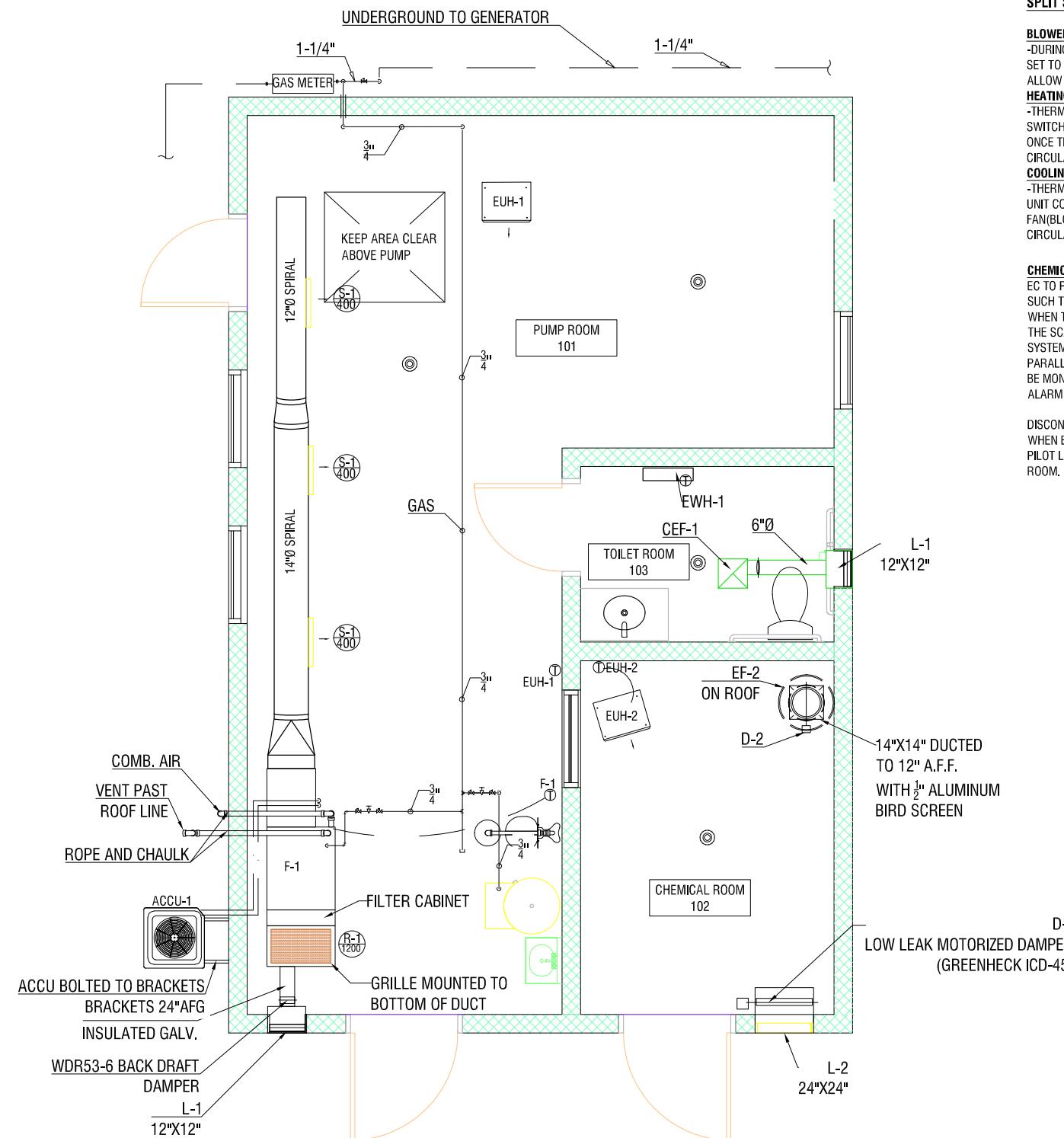
KEYED NOTES:

- ① HUB DRAIN INLET SHALL BE INSTALLED TO 24" AFF FOR DISCHARGE FROM WELL PUMP AIR/VACUUM RELEASE VALVE. REFER TO Q101.
- ② INSTALL 3" PVC INTAKE AND EXHAUST FROM WATER HEATER (WHR-1) AND TERMINATE THROUGH ROOF WITH CONCENTRIC FITTING. COORDINATE WITH HC AND LOCATE TERMINATION IN-LINE WITH FURNACE PENETRATIONS THRU ROOF.
- ③ CONNECT TO WATER MAIN PROVIDED BY SITE UTILITY CONTRACTOR AS SHOWN ON UTILITY PLAN.
- ④ INSTALL PRV RATED TO REDUCE FROM 110 PSI TO 75 PSI. COORDINATE PRESSURE RATING OF WATER METER WITH CITY AND LOCATE PRV BEFORE METER IF WATER METER IS NOT CAPABLE OF HANDLING HIGHER WATER PRESSURE.
- ⑤ CONNECT TO WELL PUMP PRELUBE WATER METER. SEE Q101.
- ⑥ CONNECT TO BOOSTER PUMP SUPPLY PIPING IN CHEMICAL ROOM. SEE Q101.

FLOOR PLAN - PLUMBING
PUBLIC WATER SUPPLY - WELL NO. 5 PUMPHOUSE
CITY OF PRAIRIE DU CHIEN
CRAWFORD COUNTY, WISCONSIN

DATE
JUNE 2025
DRAFTER
CLEN
CHECKED
DPOP
PROJECT NO.
240564

P101



HVAC FLOOR PLAN

Scale: 3/16" = 1'-0"

SPLIT SYSTEM WITH FRESH AIR DAMPER ORDER OF OPERATIONS:

BLOWE

-DURING OCCUPIED HOURS THE SCHEDULE OF THE THERMOSTAT WILL HAVE THE FAN SET TO "ON" TO CIRCULATE AIR THROUGHOUT. BACK DRAFT DAMPER WILL OPEN ALLOW FRESH AIR TO THE SPACE TO MAKE UP THE BATHROOM EXHAUST.

HEATING

-THERMOSTAT CALL FOR HEAT THE VENT MOTOR WILL START, PROVING THE AIR SWITCH WHICH WILL ALLOW THE GAS AND IGNITION SYSTEM TO START THE BURNER. ONCE THE SET TIME FOR BLOWER DELAY IS PASTED THE BLOWER WILL RUN CIRCULATING HEAT THROUGHOUT THE SPACE.

CIRCULATING COOLING

COOLING
-THERMOSTAT CALL FOR COOLING WILL SEND 24V TO THE OUTDOOR CONDENSING UNIT CONTACT STARTING THE FAN AND COMPRESSOR, AT THE SAME TIME THE INDOOR FAN(BLOWER) WILL START AND RUN AT THE SET COOLING SPEED(SEE I&O MANUAL) CIRCULATING CONDITIONED AIR THROUGHOUT THE SPACE.

CHEMICAL(102) STORAGE EXHAUST SYSTEM:

EC TO PROVIDE LIMIT SWITCH ON 102 CHEM ROOM DOOR AND WIRE SUCH THAT THE ROOM LIGHTS, E-2, D-1 AND D-2 TO TURN ON / OPEN WHEN THE DOOR IS OPENED. THE LIMIT SWITCH SHALL BE WIRED TO THE SCADA SYSTEM SUCH THAT THE LIGHTS AND CHEM. ROOM EXHAUST SYSTEM REMAIN ON FOR SETTABLE TIME. THIS CONTROL IS TO BE IN PARALLEL WITH THE (2) INTERIOR LIGHT SWITCHES. EF-2 STATUS SHALL BE MONITORED BY THE SCADA SYSTEM AND AN EXCESS RUN TIME ALARM (ADJ.) SHOULD BE PROVIDED THROUGH THE SCADA SYSTEM.

DISCONNECT FACTORY MOUNTED. EF-2 TO OPERATE CONTINUOUSLY WHEN ENABLED BY LIGHT SWITCH. EC TO PROVIDE LIGHT SWITCH WITH PILOT LIGHT LOCATED IN PUMP ROOM AND LIGHT SWITCH IN CHEM. ROOM. EC TO INTERLOCK FAN WITH BOTH LIGHTS.

EXHAUST FAN OPERATION: (BATH ROOMS/ REST ROOMS)

CONSTANT ON OPERATION

-THE OPERATION OF THE EXHAUST FAN DURING OCCUPIED HOURS MUST BE INTERLOCKED WITH A TIME CLOCK OR WITH THE HVAC FAN OPERATION IF THE SPACE IS HEATED OR COOLED BY THE HVAC SYSTEM.

INTERMITTENT OPERATION

-THE OPERATION OF THE EXHAUST FAN DURING OCCUPIED HOURS MUST BE INTERLOCKED WITH THE LIGHTS IF THE SPACE IS UNHEATED OR HEATED WITH OTHER MEANS BESESIDES THE HVAC THAT SERVES THE REST OF THE BUILDING.

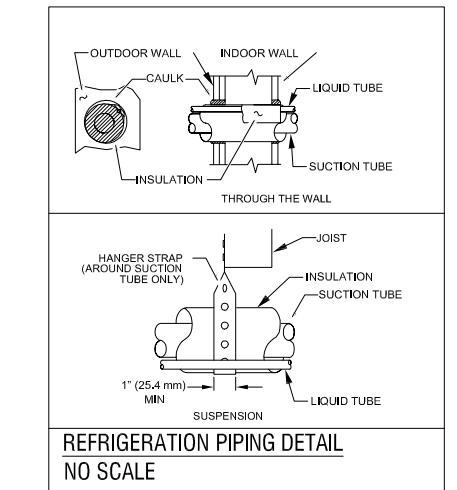
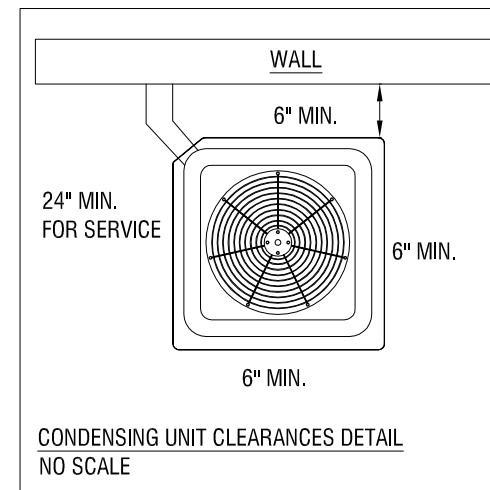
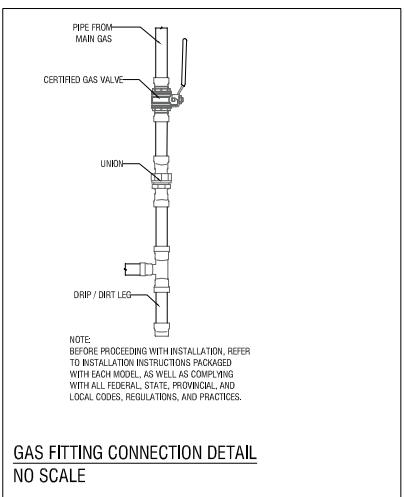
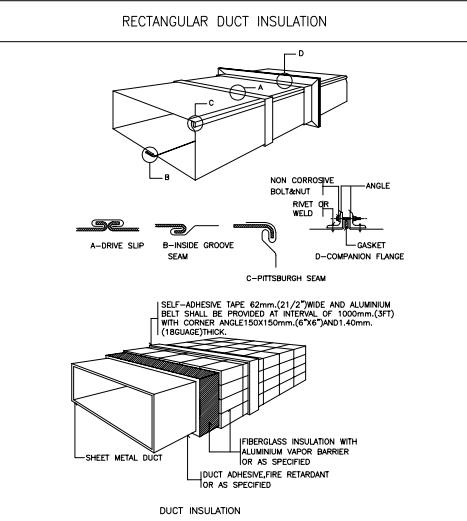
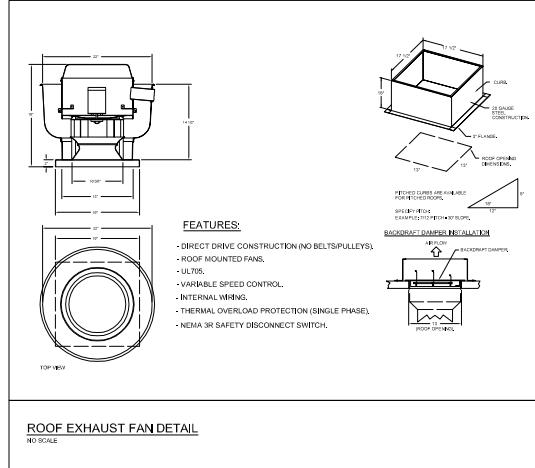
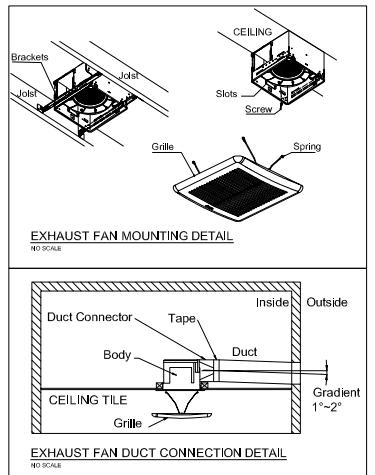
EXHAUST FAN OPERATION : JANITOR CLOSET / MOD SINK

-THE OPERATION OF THE EXHAUST FAN DURING OCCUPIED HOURS MUST BE INTERLOCKED WITH THE LIGHTS FOR INTERMITTENT OPERATION WHEN THE ROOM IS BEING USED.



EQUIPMENT PLAN - HVAC

ROCK LAWN DRIVE
PUBLIC WATER SUPPLY - WELL NO. 5 PUMPHOUSE
CITY OF PRAIRIE DU CHIEN
CRAWFORD COUNTY, WISCONSIN



FURNACE SCHEDULE																
DESIGNATION	LOCATION	MANUF.	MODEL NO.	SYSTEM TOTAL CFM	FRESH AIR(CFM)	MAX EXT. STATIC PSI (IN. OF. W.G.)	HEATING		COOLING		ELECTRICAL		FILTER (DISPOSABLE)	WEIGHTS	NOTES	
							INPUT TOTAL (BTU/H)	OUTPUT TOTAL(BTU/H)	NET TONNAGE(BTU)	SENSIBLE (BTU)	VOLTS / HZ / Ø	MIN. MCA (AMPS)	MAX BEARKER (AMPS)			
F-1	101 -PUMP ROOM	COMFORTMAKER	N96VSN0401712A	735 cfm	85CFM	.05	40,000	39,000BTU	N/A	N/A	115 / 60 / 1 Ø	11.7	15	25"X16"X4"	125LBS	COMMERCIAL 24V THERMOSTAT W/ SCHEDULED FAN
ACCU-1	101 -PUMP ROOM	COMFORTMAKER	N5A536AKAWA (454B)	1105 CFM			N/A	N/A	3 TON (36,000)	27,000	240 / 60 / 10	14.2	20	N/A	158 LBS	COMPRESSOR CRANKCASE HEATER / LOW AMBIENT CONTROL

EXHAUST FAN SCHEDULE													
DESIGNATION	LOCATION	MANUF.	MODEL NO.	TOTAL CFM	MAX EXT. STATIC PSI (IN. OF. W.G.)	ELECTRICAL			FILTER	WEIGHTS	TERMINATION	NOTES	
						VOLTS / HZ / Ø	MIN. MCA (AMPS)	MAX BEARKER (AMPS)					
CEF-1	103 - TOILET ROOM	BROAN	AE80	800CFM	0.20	115 / 60 / 1	.6A	20A	N/A	5.6 LBS	SIDEWALL LOUVER , RUN WHEN OCCUPIED	E.C. TO INTERLOCK WITH LIGHTS	
EF-2	102 - CHEMICAL ROOM	CAPTIVEAIRE	DU12HFA	400 CFM	0.37	115 / 60 / 1	3.7	20A	N/A	56 LBS (CURB 22LBS)	ROOF MOUNTED ON PITCHED CURB	FAN TO RUN CONTINUOUSLY	

GRILLE AND DIFFUSER SCHEDULE								
DESIGNATION	MANUF.	MODEL NO.	SIZE	TYPE	STYLE	LOCATION	DAMPER	NOTE
S-1	TRUAIRE	USR52	20"X0"	SUPPLY DIFF.	SPRAL	DUCT	RECESSED SCREWDRIVER OPERATED OPPOSED BLADE DAMPER	COLLAR SIZED PER PLAN
RA-1	TRUAIRE	905	24"X16"	RETURN GRILLE	45"DEGREE FIXED BLADES	DUCT	N/A	COLLAR SIZED PER PLAN

LOUVER SCHEDULE								
DESIGNATION	MANUF.	MODEL NO.	SIZE	TYPE	STYLE	LOCATION	DAMPER	NOTE
L-1	TRUAIRE	4500 SERIES	12"X12"	45° FIXED DRAINABLE	EXTRUDED ALUMINUM	101 - PUMP ROOM	BACK DRAFT IN 6" DUCT	INSULATE PLENUM (R=12 MIN) , KYNAR 500 FINISH (COLOR SELECTED BY ARCH)
L-2	TRUAIRE	905	24"X16"	45° FIXED DRAINABLE	EXTRUDED ALUMINUM	102 - CHEM. ROOM	LOW LEAK MOTORIZED TO FIT PLUM	KYNAR 500 FINISH (COLOR SELECTED BY ARCH) , MOTORIZED DAMPER INTERLOCKED WITH EF-2

ELECTRIC UNIT HEATER SCHEDULE										
DESIGNATION	LOCATION	MANUF.	MODEL NO.	TOTAL CFM	BTU OUTPUT (W/BTU)	ELECTRICAL		WEIGHTS		
						VOLTS / HZ / Ø	MIN. MCA (AMPS)			
EUH-1	101 PUMP ROOM	PROFUSION	HA24-75M	700	25,590BTU (7.5 KW)	240/60/1	31.30	N/A	60 LBS	1, 3
EUH-2	102 CHEM. ROOM	BERKO	BWD10212	1450	34120BTU (10KW)	240/60/1	44.00	N/A	60 LBS	1, 2, 3, 4

ELECTRIC WALL HEATER SCHEDULE										
DESIGNATION	MANUF.	MODEL NO.	TOTAL CFM	BTU OUTPUT (W)	ELECTRICAL		FILTER (DISPOSABLE)	WEIGHTS		
					VOLTS / HZ / Ø	MIN. MCA (AMPS)				
EWH-1	BROAN	192	160	3413 BTU/hr (1000W)	120/60/1	8.3 Amps	15	N/A	8 LBS	1. MOUNTED NO LESS THAN 8" A.F.F. 2. BUILT IN THERMOSTAT

DAMPER SCHEDULE								
DESIGNATION	MANUF.	MODEL NO.	SIZE	TYPE	STYLE	LOCATION	NOTE	REVISIONS
D-1	GREENHECK	ICD-45	24"X24"	LOW LEAK ALUMINUM	INTAKE	102 - CHEM. ROOM		NO. DATE
D-2	GREENHECK	ICD-45	14"X14"	LOW LEAK ALUMINUM	EXHAUST	102 - CHEM. ROOM	SEE CHEM EXHAUST SYSTEM NOTE	NO. DATE

REVISIONS	REMARKS
NO. DATE	
REVISIONS	REMARKS
NO. DATE	
DATE JUNE 2025	
DRAFTER TJC	
CHECKED TJC	
PROJECT NO. 240564	
M102	

SCHEDULES & DETAILS - HVAC
PUBLIC WATER SUPPLY - WELL NO. 5 PUMPHOUSE
CITY OF PRAIRIE DU CHIEN
CRAWFORD COUNTY, WISCONSIN



GENERAL HVAC PLAN NOTES:

1. ALL WORK SHALL CONFORM TO CURRENT STATE AND LOCAL CODES WHETHER OR NOT SPECIFICALLY SHOWN ON THE PLANS.
2. THE HVAC DESIGNER SHALL BE RESPONSIBLE FOR HVAC PLAN SUBMITTAL. IT SHALL BE THE HVAC CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL STATE AND LOCAL CODES.
3. ALL HVAC PLANS AND DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC. THE HVAC CONTRACTOR MUST CONSULT AND COOPERATE WITH THE GENERAL CONTRACTOR, AND THE CONTRACTORS OF ALL OTHER TRADES, AS WELL AS THE BUILDING OWNER(S) SO AS TO AVOID EQUIPMENT AND DUCTWORK COLLISION, AS WELL AS OTHER PROJECT CONTROVERIES. THE GENERAL CONTRACTOR AND THE HVAC CONTRACTOR SHALL VERIFY ANY AND ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE PROCEEDING WITH THE INSTALLATION OF THE HVAC SYSTEM.
4. EQUIPMENT MANUFACTURER SUBSTITUTIONS SHALL NOT BE ALLOWED WITHOUT THE CONSENT OF THE HVAC DESIGNER. MANUFACTURERS AS SPECIFIED IN THE EQUIPMENT SCHEDULES SHALL BE CONSIDERED AS STRICT EQUIPMENT SPECIFICATIONS AND MUST BE FURNISHED AND INSTALLED WITHOUT SUBSTITUTION. EQUIPMENT MANUFACTURER SUBSTITUTIONS UNBENOUNCED TO THE HVAC DESIGNER SHALL ABSOLVE THE DESIGNER OF THE RESPONSIBILITY OF THE ADEQUATE PERFORMANCE OF THE HVAC SYSTEM.
5. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY/ALL LINE VOLTAGE WIRING, (115 VOLT OR HIGHER). THE HVAC CONTRACTOR SHALL FURNISH AND INSTALL ANY/ALL 24 VOLT CONTROL WIRING.
6. THE STRUCTURAL ENGINEER SHALL DETERMINE WHETHER THE BUILDING STRUCTURE CAN SUPPORT THE WEIGHT OF THE SUSPENDED EQUIPMENT, ROOF MOUNTED EQUIPMENT, PIPING, AND DUCTWORK. IF THE STRUCTURE IS UNABLE TO SUPPORT THE WEIGHT OF THE EQUIPMENT AND/OR DUCTWORK AND PIPING, IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ADEQUATELY REINFORCE THE STRUCTURE TO SUPPORT THE WEIGHT.
7. ALL GAS PIPING SHALL COMPLY TO ALL STATE AND LOCAL CODES IN EFFECT AT THE TIME OF INSTALLATION. REFER TO NFPA 54 FOR SIZING AND INSTALLATION PRACTICES.
8. ALL DUCTS ARE TO BE INSTALLED IN ACCORDANCE OF STATE CODE AND S.M.A.C.N.A'S GUIDELINES.
9. ALL FLEX DUCT TO BE INSTALLED PER IMC 603.6.
10. ALL DUCTS ARE TO BE SEALED IN ACCORDANCE OF STATE CODE (SEE TABLE)
11. ALL DUCT LOCATED IN AN UNCONDITIONED SPACE TO BE INSULATED PER CODE: (SEE TABLE)
12. ALL FRESH AIR INTAKES ARE TO BE LOCATED NO CLOSER THAN 10' FROM ANY EXHAUST OR FLUE HORIZONTALLY OR 3' BELOW ANY EXHAUST OR FLUE.
13. ALL INTAKES TO BE LOCATED NO CLOSER THAN 12" FROM FINISHED GROUND HEIGHT.
14. THE 2015 IBC & IFC REQUIRE DOMESTIC COOKING HOODS IN I-2, CONDITION 1, OCCUPANCIES TO BE EQUIPPED WITH AN AUTOMATIC FIRE EXTINGUISHING SYSTEM RECOGNIZED FOR PROTECTION OF DOMESTIC COOKING EQUIPMENT & REQUIRES A MANUAL ACTIVATION DEVICE OR K-TYPE FIRE EXTINGUISHER TO BE WITHIN 30' OF DOMESTIC COOKING EQUIPMENT.
15. OWNER TO PROVIDE LETTER EXPLAINING TYPE OF USE FOR DOMESTIC KITCHEN HOOD/ STOVE FOR STATE RECORDS.
16. NO EQUIPMENT, EXHAUSTS, FLUE VENTS, INTAKES OR FRESH AIR VENTS TO BE LOCATED ANY CLOSER THAN 10' FROM PROPERTY LINE. IF AN INSTANCES ARISES WHERE THIS IS NOT CLEARANCE A VARIANCE WITH THE LOCAL INSPECTOR, TOWN, CITY IS TO BE FILED OR DISCUSSED TO COME TO A SOLUTION.
17. PROVIDE FOR CONDENSATE REMOVAL FOR FURNACES, FAN COILS & A.C. COILS.
18. IF RETURN AIR VOLUME (SINGLE OR COMBINED) IS 2000 CFM OR GREATER LISTED OR TESTED, SMOKE SENSOR IN RETURN AIR DUCT TO BE INSTALLED & WIRED TO ALARM OR CONTROL SMOKE/FIRE CENTER AS REQUIRED BY CODE.
19. EXHAUST FANS TO BE CONTROLLED BY TIME CLOCK TO OPERATE DURING BUILDING'S OCCUPIED SCHEDULE. OVERRIDE SWITCH TO BE PROVIDED TO OPERATE FAN DURING BUILDING UNOCCUPIED SCHEDULE.
20. PROVIDE BALANCING DAMPER IN EACH SUPPLY OR EXHAUST DUCT RUN OUT. ACCESS TO DAMPER TO BE PROVIDED AT EACH LOCATION IF HIDDEN.
21. THERMOSTAT TO BE LOCATED WITHIN A.D.A SPECS. 48" A.F.F., LOCATION OF THERMOSTAT OR SENSOR PER PLAN. IF RELOCATION NEEDED CONFIRM WITH PLAN DESIGNER.
22. THERMOSTAT TO BE SET UP WITH CONTINUOUS FAN OPERATION DURING OCCUPIED HOURS. OWNER TO PROVIDE THIS INFORMATION TO THE HVAC CONTRACTOR.
23. THE SYSTEM IS TO BE BALANCED PER PLAN AND RECORDED FOR THE INSPECTOR TO FILE WITH THE STATE.
24. THE SYSTEM IS TO BE BALANCED PER CODE. BUILDING BALANCE TO BE WITHIN 10% PLUS OR MINUS OF TOTAL EXHAUST FROM THE SPACE. PERFORM AIR BALANCE AND PROVIDE A RECORDED REPORT STATING THE BALANCE AND TO BE FILES WITH SYSTEM BALANCE REPORT.
25. WHEN PROJECT IS COMPLETE THERE IS TO BE A FINAL COMPLETION STATEMENT RECORDED AND FILED WITH THE STATE BY THE DESIGNER OF RECORD.

SPLIT SYSTEM WITH FRESH AIR DAMPER ORDER OF OPERATIONS:

BLOWER

-DURING OCCUPIED HOURS THE SCHEDULE OF THE THERMOSTAT WILL HAVE THE FAN SET TO "ON" TO CIRCULATE AIR THROUGHOUT. BACK DRAFT DAMPER WILL OPEN ALLOW FRESH AIR TO THE SPACE TO MAKE UP THE BATHROOM EXHAUST.

HEATING

-THERMOSTAT CALL FOR HEAT THE VENT MOTOR WILL START, PROVING THE AIR SWITCH WHICH WILL ALLOW THE GAS AND IGNITION SYSTEM TO START THE BURNER. ONCE THE SET TIME FOR BLOWER DELAY IS PASTED THE BLOWER WILL RUN CIRCULATING HEAT THROUGHOUT THE SPACE.

COOLIN

-THERMOSTAT CALL FOR COOLING WILL SEND 24V TO THE OUTDOOR CONDENSING UNIT CONTACT STARTING THE FAN AND COMPRESSOR, AT THE SAME TIME THE INDOOR FAN(BLOWER) WILL START AND RUN AT THE SET COOLING SPEED(SEE I&O MANUAL) CIRCULATING CONDITIONED AIR THROUGHOUT THE SPACE.

CHEMICAL(102) STORAGE EXHAUST SYSTEM:

EC TO PROVIDE LIMIT SWITCH ON 102 CHEM ROOM DOOR AND WIRE SUCH THAT THE ROOM LIGHTS, E-2, D-1 AND D-2 TO TURN ON / OPEN WHEN THE DOOR IS OPENED. THE LIMIT SWITCH SHALL BE WIRED TO THE SCADA SYSTEM SUCH THAT THE LIGHTS AND CHEM. ROOM EXHAUST SYSTEM REMAIN ON FOR SETTABLE TIME. THIS CONTROL IS TO BE IN PARALLEL WITH THE (2) INTERIOR LIGHT SWITCHES. EF-2 STATUS SHALL BE MONITORED BY THE SCADA SYSTEM AND AN EXCESS RUN TIME ALARM (ADJ.) SHOULD BE PROVIDED THROUGH THE SCADA SYSTEM.

DISCONNECT FACTORY MOUNTED. EF-2 TO OPERATE CONTINUOUSLY WHEN ENABLED BY LIGHT SWITCH. EC TO PROVIDE LIGHT SWITCH WITH PILOT LIGHT LOCATED IN PUMP ROOM AND LIGHT SWITCH IN CHEM. ROOM. EC TO INTERLOCK FAN WITH BOTH LIGHTS.

EXHAUST FAN OPERATION: (BATH ROOMS/ REST ROOMS)

CONSTANT ON OPERATION

-THE OPERATION OF THE EXHAUST FAN DURING OCCUPIED HOURS MUST BE INTERLOCKED WITH A TIME CLOCK OR WITH THE HVAC FAN OPERATION IF THE SPACE IS HEATED OR COOLED BY THE HVAC SYSTEM.

INTERMITTENT OPERATION

-THE OPERATION OF THE EXHAUST FAN DURING OCCUPIED HOURS MUST BE INTERLOCKED WITH THE LIGHTS IF THE SPACE IS UNHEATED OR HEATED WITH OTHER MEANS BESIDES THE HVAC THAT SERVES THE REST OF THE BUILDING.
EXHAUST FAN OPERATION : JANITOR CLOSET / MOD SINK

-THE OPERATION OF THE EXHAUST FAN DURING OCCUPIED HOURS

THE OPERATION OF THE EXHAUST FAN DURING OCCUPIED HOURS MUST BE INTERLOCKED WITH THE LIGHTS FOR INTERMITTENT OPERATION WHEN THE ROOM IS BEING USED.

ELECTRICAL CONNECTION SCHEDULE										
TAG	SYMBOL	DESCRIPTION	VOLTS	HP	AMPS	KVA	BREAKER	WIRE SIZE	CIRCUIT	NOTES
ACCU-1	⌚	AIR COOLED CONDENSING UNIT	240V 2P 3W	-	17.5	34.20	25/2	(2) #10, #10N, #10G - 3/4" C	PANEL W5-13,15	2
CEF-1	Ⓜ	CEILING EXHAUST FAN	120V 1P 2W	FRAC	0.67	0.08	20/1	(1) #12, #12N, #12G - 3/4" C	PANEL W5-23	9
CBP-1	Ⓜ	CHLORIDE BOOSTER	240V 2P 3W	3 HP	12.5	3	20/2	(2) #10, #10N, #10G - 3/4" C	PANEL W5-9	3,4
CP-1	Ⓜ	CIRCULATION PUMP	120V 1P 2W	FRAC	1.04	0.13	20/1	(1) #12, #12N, #12G - 3/4" C	PANEL W5-29	1
D-1	⌚	DAMPER ACTUATOR LOUVER	120V 1P 2W	-	0.83	0.1	20/1	(1) #12, #12N, #12G - 3/4" C	PANEL W5-31	4
D-2	⌚	DAMPER ACTUATOR EXHAUST FAN	120V 1P 2W	-	0.83	0.1	20/1	(1) #12, #12N, #12G - 3/4" C	PANEL W5-25	4
EF-2	Ⓜ	ROOF EXHAUST FAN	120V 1P 2W	1/10 HP	3.7	0.42	20/1	(1) #12, #12N, #12G - 3/4" C	PANEL W5-25	8,10
EUH-1	⌚	ELECTRIC UNIT HEATER	240V 2P 3W	-	31.3	7.5	45/2	(2) #8, #8N, #10G - 3/4" C	PANEL W5-1,3	5
EUH-2	⌚	ELECTRIC UNIT HEATER	240V 2P 3W	-	41.7	10	60/2	(2) #6, #6N, #10G - 3/4" C	PANEL W5-5,7	5
EWH-1	⌚	ELECTRIC WALL HEATER	120V 1P 2W	-	8.3	1.0	15/1	(1) #12, #12N, #12G - 3/4" C	PANEL W5-19	2
F-1	⌚	FURNACE	120V 1P 2W	-	11.7	1.4	15/1	(1) #12, #12N, #12G - 3/4" C	PANEL W5-17	1
GBC	⌚	GENERATOR BATTERY CHARGER	120V 1P 2W	-	16.67	2	20/1	(1) #12, #12N, #12G - 3/4" C	PANEL W5-2	
GBH	⌚	GENERATOR BLOCK HEATER	120V 1P 2W	-	20.83	2.5	30/1	(1) #10, #10N, #10G - 3/4" C	PANEL W5-4	
SCADA	⌚	SCADA CONTROL PANEL		-	1.67	0.2	20/1	(1) #12, #12N, #12G - 3/4" C	PANEL W5-21	6
WH	⌚	WATER HEATER	120V 1P 2W	-	16.67	2	20/1	(1) #12, #12N, #12G - 3/4" C	PANEL W5-27	1
WP	Ⓜ	WELL PUMP	480V 3P 3W	150 HP	176	140.23	225/3	(3) #4/0, #4G - 3" C	MCC	2.7

NOTES:

1. PROVIDE DISCONNECT NEAR UNIT.
2. PROVIDE DISCONNECT NEAR UNIT, NEMA 3R ENCLOSURE.
3. CHLORINE BOOSTER PUMP TO BE WIRED IN SERIES WITH WELL PUMP AND FLOW METER SIGNAL RELAY.
4. PROVIDE DISCONNECT NEAR UNIT, NEMA 4X ENCLOSURE.
5. DISCONNECT IS FACTORY MOUNTED. EC TO INSTALL AND WIRE THERMOSTAT AND SUMMER/WINTER FAN SWITCH.
6. DIRECT CONNECTION.
7. CONNECT TO VFD.
8. DISCONNECT IS FACTORY MOUNTED. EF-1 TO OPERATE CONTINUOUSLY WHEN ENABLED BY LIGHT SWITCH. EC TO PROVIDE LIGHT SWITCH WITH PILOT LIGHT LOCATED IN PUMP ROOM AND LIGHT SWITCH IN CHEM ROOM. EC TO INTERLOCK FAN WITH BOTH LIGHT SWITCHES.
9. EC TO WIRE AND INSTALL SPEED CONTROLLER PROVIDED BY HC. PROVIDE DISCONNECT AT FAN. INTERLOCK FAN WITH LIGHT SWITCH.
10. EC TO PROVIDE LIMIT SWITCH ON 102 CHEM ROOM DOOR AND WIRE SUCH THAT THE ROOM LIGHTS, EF-1, D-1, D-2 AND TURNED ON / OPENED WHEN THE DOOR IS OPENED. THE LIMIT SWITCH SHALL BE WIRED TO THE SCADA SYSTEM SUCH THAT THE LIGHTS AND CHEM ROOM EXHAUST SYSTEM REMAIN ON FOR A SETTABLE TIME. THIS CONTROL IS TO BE IN PARALLEL WITH THE (2) INTERIOR LIGHT SWITCHES. EF-1 STATUS SHALL BE MONITORED BY THE SCADA SYSTEM AND AN EXCESS RUN TIME ALARM (ADJ.) SHOULD BE PROVIDED THROUGH THE SCADA SYSTEM.

GENERATOR SCHEDULE

TAG	TOTAL CONN. KVA	TOTAL CONN. AMPS	VOLTS	MAX RATED kW	MAX RATED AMPS	POWER FACTOR	MANF / MODEL	NOTES
G-W5	189	277	480Y/277V 3P 4W	200	301	0.91	GENERAC / SG200 200 kW, 14.2L ENGINE, K0200124Y21-200kW ALTERNATOR	NATURAL GAS FUEL, 24.6 THERMS/HR. CONSUMPTION, SUPPLY GAS PRESSURE: 15 INCHES H2O. PROVIDE 300A MAIN CIRCUIT BREAKER ON GENERATOR.

TRANSFER SWITCH SCHEDULE

TAG	TOTAL CONN. KVA	TOTAL CONN. AMPS	TYPE	VOLTS	RATED AMPS	MANF / MODEL	NOTES
ATS-W5	189	277	AUTOMATIC	480Y/277V 3P 4W	300	GENERAC / TX301	

LUMINAIRE SCHEDULE

TAG	SYMBOL	DESCRIPTION	MOUNTING	MANUFACTURER/MODEL	INPUT WATTS	LUMENS	COLOR TEMP	VOLTS	NOTES
A	---	WET LOCATION VAPOR TIGHT LED	CEILING	METALUX 4VT2-LD54-DR-UNV-L840 -CD1-VL-U OR EQUAL	32	4000	4000K	120V 1P 2W	
B	💡	EXTERIOR WALL MOUNT LED	WALL	EATON ALL-PRO WP-18-50L-PC OR EQUAL	18	1600	5000K	120V 1P 2W	INTEGRAL PHOTO CELL, FIELD VERIFY HEIGHT.
EM	⚡	EMERGENCY LIGHTING UNIT	WALL	SURE LITES SEL-25-SD OR EQUAL	5	100	-	120V 1P 2W	BATTERY PACK WITH SELF-DIAGNOSTICS
X1	💡	COMBINATION EXIT SIGN/EM LIGHTING UNIT	WALL	SURE-LITES LPXC-25-SD OR EQUAL	5	100	-	120V 1P 2W	BATTERY PACK WITH SELF-DIAGNOSTICS

PANEL SCHEDULE

PANEL DESIGNATION: W5		LOCATION: PUMP ROOM (101)		VOLTS: 120/240		PHASE: 1		BUS AMPS: 400			
MOUNTING: MCC		WIRES: 3		POLES: 2		FEED FROM: XFMFR-1					
CIRCUIT #	BREAKER AMPS POLES	DESCRIPTION	LOAD (KVA) A	LOAD (KVA) B	CIRCUIT #	BREAKER AMPS POLES	DESCRIPTION	LOAD (KVA) A	LOAD (KVA) B		
1	45 2	EHU-1	3.75		2	20 1	GBC	2.00			
3	1 1				4	30 1	GBH			2.50	
5	60 2	EUH-2	5.00		6	20 1	LIGHTING			0.29	
7	1 1				8	20 1	RECEPTS - PUMP RM.	1.08			
9	25 2	CBP-1 (3 hp)	1.44		10	20 1	RECEPTS - PUMP RM.	0.72			
11	1 1				12	20 1	RECEPTS - TOILET RM.	0.18			
13	25 2	ACCU-1	2.10		14	20 1	RECEPTS - CHEM. RM.	0.54			
15	1 1				16	20 1	RECEPT - EXTERIOR	0.18			
17	15 1	F-1	1.40		18	20 1	SPACE				
19	15 1	EWH-1			20	20 1	SPACE				
21	20 1	SCADA	0.20		22	20 1	SPACE				
23	20 1	CEF-1	0.08		24	20 1	SPACE				
25	20 1	D-2, EF-2	0.52		26	20 1	SPACE				
27	30 1	WH	2.00		28	20 1	SPACE				
29	20 1	CP-1	0.13		30	20 1	SPACE				
31	20 1	D-1			32	20 1	SPACE				

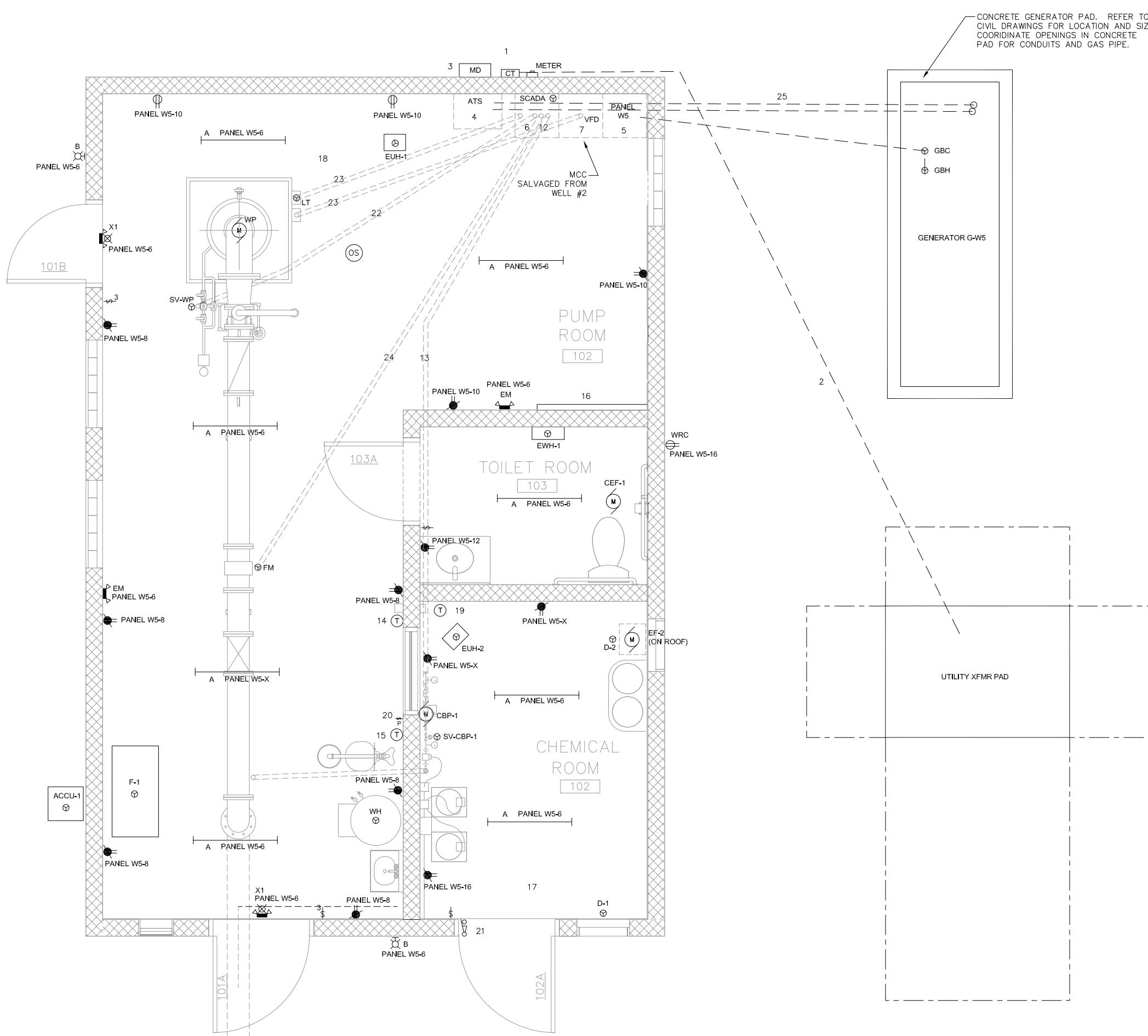
TOTAL CONNECTED PHASE LOADS 17.98 19.52
TOTAL CONNECTED LOADS 37.50

CONNECTED	ADJUSTED	LOAD FACTOR	CONNECTED	ADJUSTED	LOAD FACTOR
LIGHTING: 0.29	0.37	(125%)	HEATING: 18.50	18.50	(100%)
LARGEST MOTOR (CBP-1): 2.88	5.10	(125%)	COOLING: 4.20	0.00	(0%)
OTHER MOTORS: 0.00	0.00	(100%)	ALL OTHER: 8.93	8.93	(100%)
RECEPTACLES: 2.70	2.70	(100%)	TOTAL LOAD: 37.50 KVA	35.59 KVA	
RECEPTACLES: 0.00	0.00	(50%)	1-PHASE LOAD: 156.2 AMPS	148.3 AMPS	

SWITCH & LIGHTING CONTROL SCHEDULE

SYMBOL	DESCRIPTION	NOTES

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CONCRETE GENERATOR PAD. REFER TO CIVIL DRAWINGS FOR LOCATION AND SIZE. COORDINATE OPENINGS IN CONCRETE PAD FOR CONDUITS AND GAS PIPE.

NOTES

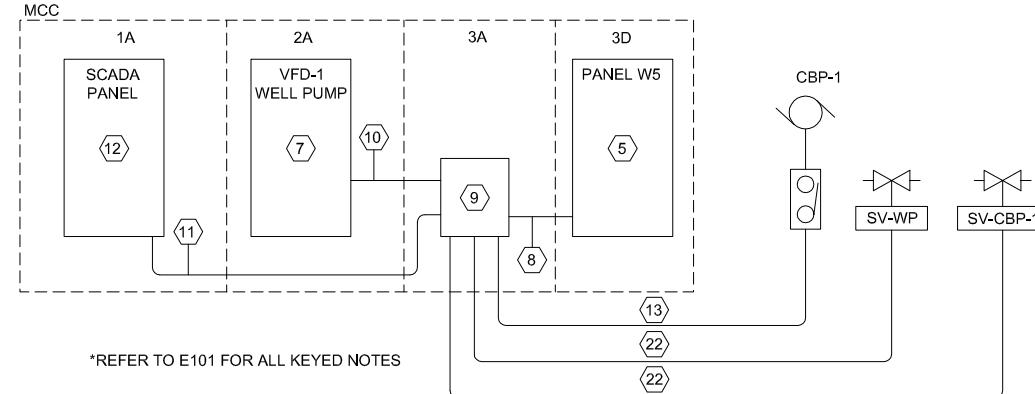
1. ALL UNDERGROUND RACEWAY SHALL BE SCHEDULE 80 PVC.
2. ALL RACEWAY AND BOXES SERVING DEVICES SHALL BE ROUTED CONCEALED IN MASONRY WALLS.
3. GFCI RECEPTACLES TO BE INDIVIDUALLY PROTECTED. STANDARD RECEPTACLES PROTECTED DOWNSTREAM FROM OTHER GFCI RECEPTACLES ARE NOT PERMITTED.
4. ALL RECEPTACLES TO HAVE A WR (WEATHER RESISTANT) LISTING.
5. ALL EXTERIOR RECEPTACLES SHALL HAVE "IN USE" STYLE WEATHERPROOF COVERS.
6. EC RESPONSIBLE FOR ELECTRICAL INSTALLATION 33 09 10 WATER SYSTEM SUPERVISION CONTROL & DATA ACQUISITION SYSTEM UPDATE.

KEYED NOTES:

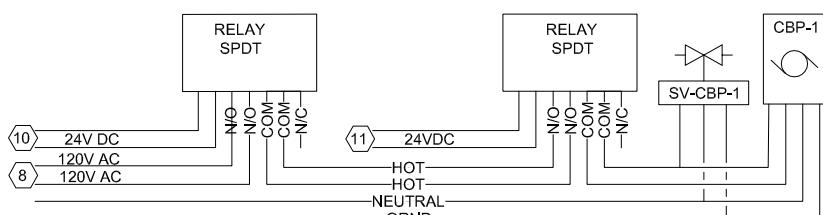
- 1 PROVIDE SERVICE ENTRANCE PER UTILITY REQUIREMENTS. COORDINATE WITH ALLIANT ENERGY. SEE SITE PLAN FOR EXACT TRANSFORMER LOCATION.
- 2 CONTRACTOR TO INSTALL CONDUCTORS FROM TRANSFORMER TO SERVICE ENTRANCE. COORDINATE WORK WITH ALLIANT ENERGY.
- 3 400 AMP MAIN DISCONNECT. 400A/3P IN NEMA 3R ENCLOSURE.
- 4 AUTOMATIC TRANSFER SWITCH, REFER TO SCHEDULE.
- 5 DISTRIBUTION PANEL, SQUARE D NQ SERIES 150A/3P MCB LA36150MB, INTERIOR NQ442L4C, IN MCC SECTION 3D.
- 6 TRANSIENT VOLTAGE SURGE SUPPRESSOR (TVSS) IN MCC SECTION. 1J
- 7 VARIABLE FREQUENCY DRIVE FOR WELL PUMP IN MCC SECTION 2A.
- 8 CIRCUIT FOR BOOSTER PUMP IN CHEMICAL ROOM.
- 9 CONTROL RELAYS.
- 10 24V DC CONTROL SIGNAL FROM VFD.
- 11 24V DC CONTROL SIGNAL FROM SCADA PANEL.
- 12 SCADA PANEL IN MCC SECTION 1A, REFER TO SCADA DESIGN DOCUMENTS (BY OTHERS).
- 13 3/4" CONDUIT AND CIRCUIT TO BOOSTER PUMP IN CHEM. ROOM.
- 14 THERMOSTAT FOR EUH-1. PROVIDE BY HC INSTALLED BY EC.
- 15 THERMOSTAT FOR F-1. PROVIDE BY HC INSTALLED BY EC.
- 16 PROVIDE A 4' X 4' X 3/4" PAINTED PLYWOOD COMMUNICATIONS BACKBOARD. PROVIDE ONE 4" CONDUIT STUB OUT TO EXTERIOR OF BUILDING FOR COMMUNICATIONS CABLING. COORDINATE WITH COMMUNICATIONS SERVICE PROVIDER.
- 17 ALL EXPOSED ELECTRICAL ENCLOSURES IN THIS ROOM TO BE NEMA 4X CORROSIVE RESISTANT.
- 18 ALL EXPOSED ELECTRICAL ENCLOSURES IN THIS ROOM TO BE NEMA 3R.
- 19 LINE VOLTAGE THERMOSTAT AND WINTER/SUMMER SWITCH FOR EUH-2. PROVIDED BY HC INSTALLED BY EC.
- 20 REMOTE SWITCH WITH PILOT LIGHT TO OPERATE EF-1. NEMA 3R ENCLOSURE REFER TO ELECTRICAL CONNECTION SCHEDULE NOTE #8.
- 21 EC TO PROVIDE LIMIT SWITCH ON THIS DOOR. REFER TO ELECTRICAL CONNECTION SCHEDULE NOTE #10.
- 22 1" CONDUIT & CIRCUIT FROM SOLENOID VALVE TO CONTROLS.
- 23 1" CONDUIT FROM CONTROLS TO LEVEL TRANSDUCER AND CONDUIT FOR PUMP MOTOR (REFER TO SCHEDULE FOR SIZE).
- 24 CONTROLS FROM CONTROLS TO FLOW METER — SIZE & NUMBER AS REQUIRED BY METER MANUFACTURER.
- 25 CONDUITS FOR GENERATOR POWER FEEDER AND DATA TO GENERATOR CONTROL PANEL

FLOOR PLANS - ELECTRICAL
PUBLIC WATER SUPPLY - WELL NO. 5 PUMPHOUSE
CITY OF PRAIRIE DU CHIEN
CRAWFORD COUNTY, WISCONSIN

DATE	JUNE 2025
DRAFTER	JCRA/PJUN
CHECKED	DPOP
PROJECT NO.	240564
E101	



1 E800 CHLORINE BOOSTER PUMP & SOLENOID VALVES HARDWARE SCHEMATIC
SCALE: NONE



*REFER TO E101 FOR ALL KEYED NOTES

2 CHLORINE BOOSTER PUMP & SOLENOID VALVE CONTROL SCHEMATIC

FEEDER SCHEDULE			DEVICES FEED
ID	AMPS	CONDUCTORS & CONDUIT SIZES	
20/3W	20	(2) #10, #10N, #10G - 3/4" EMT	CHLORINE BOOSTER PUMP (CBP-1)
50/3W	50	(2) #1/0, #1/0N, #6G - 1.5" EMT	PANEL W5
180/3W	180	(3) #4/0, #4G - 3" EMT	WELL PUMP (WP)
300/4W	300	(3) #300, #300N, #4G - 3" EMT	ATS, MCC
300/S	300	(3) #300, #300N, #4G - 3" EMT	CT, MD

CONDUCTOR MATERIAL: COPPER

PANFI SCHEDULE

RANEL DESIGNATION: MCC

FAIRY DESIGNATION: MCC
LOCATION: BLIMP ROOM

**LOCATION.
MOUNTING:**

MAIN BREAKER: 300 amps

VOLTS: 480/

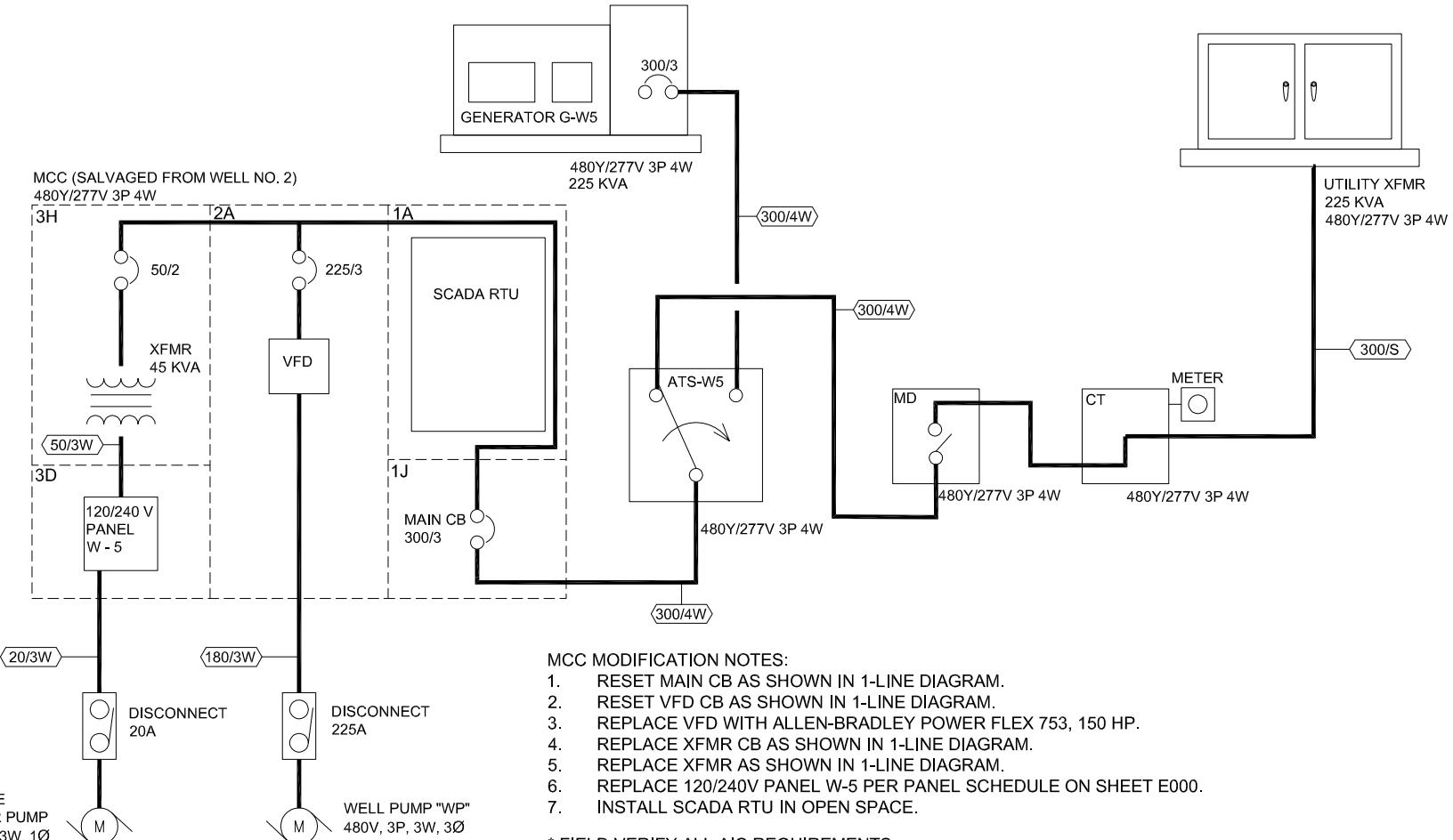
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PHASE: 3 BUS AMPS: 40

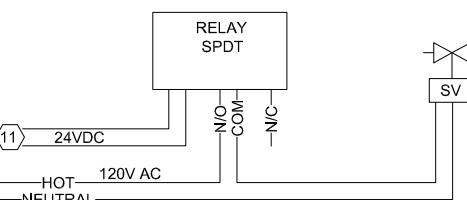
MAIN BREAKER: 300 amps			FEED FROM: ATS-W3			
CIRCUIT #	BREAKER AMPS	POLES	DESCRIPTION	A	B	LOAD (KVA)
1	225	3	WP-1 (2A)	47.80	47.80	47.80
2	50	3	XFMR-1 (3H)	15.00	15.00	15.00
3			OPEN SPACE (1H)			
4			OPEN SPACE (3A)			
5						
TOTAL CONNECTED PHASE LOADS			62.80	62.80	62.80	
TOTAL CONNECTED LOADS			188.41			

	<u>CONNECTED</u>	<u>ADJUSTED</u>	<u>LOAD FACTOR</u>
LIGHTING:	0.29	0.37	(125%)
LARGEST MOTOR (WP-1):	143.41	179.27	(125%)
OTHER MOTORS (CBP-1):	2.88	2.88	(100%)
RECEPTACLES:	2.70	2.70	(100%) (1ST 10%)
REFRIGERATORS:	0.20	0.20	(50%) (10%)

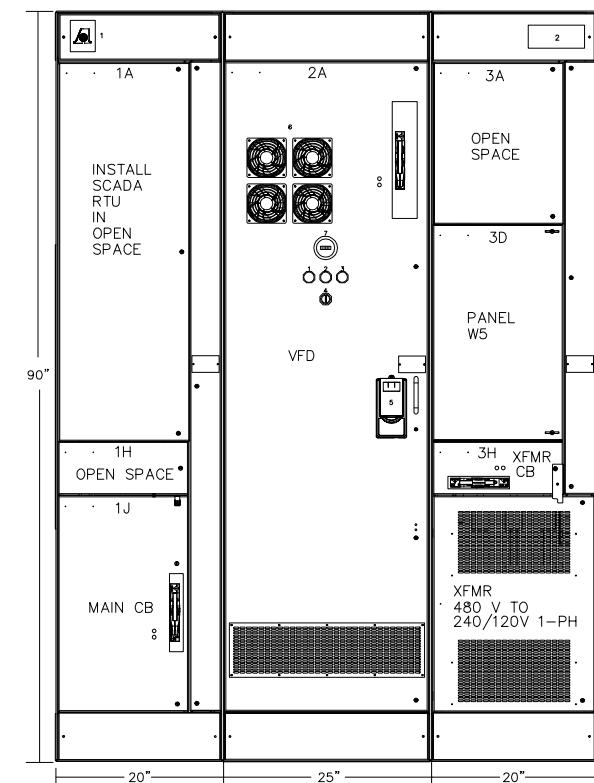
	CONNECTED	ADJUSTED	LOAD FACTOR
HEATING:	18.50	18.50	(100%)
COOLING:	4.20	0.00	(0%)
ALL OTHER:	16.43	16.43	(100%)
TOTAL LOAD:	188.41 KVA	220.14 KVA	
BALANCED 3-PHASE LOAD:	226.6 AMPS	264.8 AMPS	



3 ELECTRICAL ONE-LINE DIAGRAM



*REFER TO E101 FOR ALL KEYED NOTES



EXISTING WELL NO. 2 MOTOR CONTROL CENTER (SALVAGE FOR WELL NO.5)