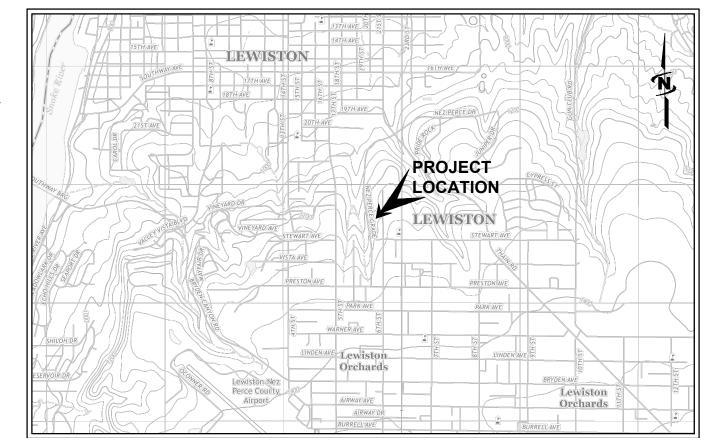


# WELL COMPLETION (WR059)(IFB-21-014) JUNE 2021

VOLUME III OF III PLANS



#### RECORD DRAWINGS:

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# AREA MAP PROJECT NO 21-20-007



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CITY OF LEWISTON	
PUBLIC WORKS DEPARTMENT	
STREETS/TRAFFIC	(208) 791-2311
WASTEWATER (CITY)	
WATER (CITY)	(208) 790-1712
WATER (LOID)	(208) 746-8235
AVISTA UTILITIES	(208) 798-1473
SPARKLIGHT	
LUMEN	(208) 798-8380
DIGLINE	
SHERIFF	911 or (208) 799-3131
AMBULANCE	
FIRE DEPARTMENT(LEWISTON FIRE DEPARTMENT)	
IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY	
(NICOLAS HIEBERT, P.E.)	(208) 799-4370

### GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE "IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION" ISPWC 2017 EDITION.
- FOUND MONUMENTS SHOWN ON PLANS. ANY MONUMENTS (IRON PINS, BRASS CAPS, ALUMINUM CAPS, IRON PIPES, ETC.) ENCOUNTERED DURING THE COURSE OF CONSTRUCTION WHICH ARE NOT SHOWN ON THE PLANS SHALL BE RETAINED AND PROTECTED UNTIL THEY ARE REFERENCED BY THE LICENSED SURVEYOR IN STATE OF IDAHO.
- RETAIN AND PROTECT ALL UTILITIES, LANDSCAPE, TREES, AND SITE ITEMS UNLESS OTHERWISE CALLED OUT IN PLANS.
- THE CITY OF LEWISTON (CITY) AND THE ENGINEER HAVE JURISDICTION OVER THIS PROJECT. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND BUSINESS LICENSES PRIOR TO CONSTRUCTION.
- 5. CONTRACTOR IS RESPONSIBLE FOR DUST ABATEMENT AND ANY LIABILITY ISSUES RELATED TO DUST AT ANY LOCATION WHICH MAY BE CAUSED BY THIS PROJECT.
- THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL AND PROTECTION OF PEDESTRIANS IN AND AROUND THIS WORK. REFERENCE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCO LATEST EDITION FOR WORK ZONE TRAFFIC CONTROL).
- ANY WORK DONE WITHIN A PUBLIC RIGHT-OF-WAY SHALL BE COORDINATED AND APPROVED BY THE CITY. RIGHT-OF-WAY USE PERMIT WILL BE REQUIRED. ALL WORK SHALL MEET CURRENT OSHA REQUIREMENTS.
- WHERE WORK IS PERFORMED ON EASEMENTS, THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO ELIMINATE ANY ADVERSE EFFECTS ON THE ADJACENT PROPERTY AND/OR TO RESTORE IT TO ITS ORIGINAL CONDITION.
- ALL DISTANCES AND DATA SHALL BE CHECKED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. IN CASE OF CONFLICT THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY SO THAT CLARIFICATION MAY BE MADE PRIOR TO THE START OF THE WORK.
- THE CONTRACTOR SHALL ARRANGE FOR, SECURE AND PAY FOR DIRECTLY, ANY AND ALL TEMPORARY UTILITY SUPPLIES (E.G. WATER POWER, AND TELEPHONE) IT MAY REQUIRE FOR PROSECUTION OF ITS WORK. THE COST OF SUCH UTILITIES SHALL BE INCLUDED IN THE APPROPRIATE BID ITEM WITH WHICH IT IS ASSOCIATED.
- SHOULD CONSTRUCTION BE HALTED BECAUSE OF INCLEMENT WEATHER CONDITIONS, THE CONTRACTOR WILL COMPLETELY CLEAN UP ALL AREAS AND MAINTAIN THE SURFACE IN GOOD CONDITION DURING THE SHUT-DOWN PERIOD.
- 12. THE CONTRACTOR'S PERSONNEL, EQUIPMENT, AND OPERATIONS SHALL COMPLY FULLY WITH ALL APPLICABLE STANDARDS, REGULATIONS, AND REQUIREMENTS OF EXISTING FEDERAL, IDAHO STATE, AND LOCAL GOVERNMENTAL AGENCIES.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL LOCAL, STATE, AND FEDERAL PERMITS REQUIRED FOR STORMWATER POLLUTION PREVENTION AS A RESULT OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN FOR APPROVAL BY THE ENGINEER. CONSTRUCTION IS NOT ANTICIPATED TO DISTURB MORE THAN ONE ACRE. IF THE CONTRUCTION DOES DISTURB MORE THAN ONE ACRE. THE CONTRACTOR SHALL OBTAIN A COPY OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY'S NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCATED WITH CONSTRUCTION ACTIVITY (OTHERWISE KNOWN AS THE CONSTRUCTION GENERAL PERMIT OR CGP) AND SUBMIT A "NOTICE OF INTENT" (NOI)[EPA FORM 3910-9 (6/03)] FOR PERMIT COVERAGE UNDER THE GENERAL PERMIT. THE CGP MAY BE FOUND ON THE INTERNET AT <u>eTTTPS://WWW EPA GOVINPES/2017-CONSTRUCTION 424-4372</u>. THE NOI MAY BE FILED EI ECTRONICAL LY AT THE FOIL OWING WERSITE:

LITTP://https://www.ePA.gov/iNPDES/SUBMITTING-NOTICE-INTENT-NOI-NOTICE-<u>TERMINATION-NOT-OR-LOW-EROSIVITY-WAVER-LEW-UNDER></u>. THE CGP DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH OTHER REGULATIONS OR CONTRACT REQUIREMENTS REGARDING STORMWATER POLLUTION PREVENTION INCLUDING BUT NOT LIMITED TO: PROTECTION OF SURFACE WATERS, PREVENTION OF SOLE RUNOFF INTO DRAINS, DUST CONTROL, PREVENTION OF TRACKING SOLIS TO ADJACENT STREETS, FUEL CONTAINMENT, SPILL CONTROL, ETC.

- 14. A GEO-TECHNICAL REPORT HAS BEEN COMPLETED FOR THIS SITE TITLED "GEOTECHNICAL ENGINEERING EVALUATION, CITY OF LEWISTON WELL #7, JUNE 12, 2020". ALL PROPOSED CUT AND FILL SLOPES MUST BE VERIFIED PRIOR TO CONSTRUCTION.
- 15. REMOVE AND DISPOSE OF ALL EXCESS EXCAVATED SOIL MATERIAL PER LOCAL, STATE, AND FEDERAL REGULATIONS. IF CONTRACTOR SEEKS TO REUSE THE EXCAVATED SOIL MATERIAL FOR SITE GRADING, CONTRACTOR SHALL SUBMIT CUALITY CONTROL PLAN TO ENGINEER FOR REVIEW PRIOR TO THE REUSING EXCAVATED SOIL MATERIAL.
- 16. IF SITE CONDITIONS DIFFER FROM THAT WHICH IS SHOWN IN THE PLANS, THE CONTRACTOR SHALL COORDINATE WITH ENGINEER.
- 17. ANY UNCRUSHED AGGREGATES USED SHALL MEET GRADATION AND COMPACTION REQUIREMENTS AS FOUND IN SECTION 801 OF THE ISPWC.
- 18. THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. NOT ALL UTILITIES ARE SHOWN. CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH AFFECTED UTILITY COMPANIES. CALL DIG LINE AT 811 AT LEAST 48 HOURS PRIOR TO EXCAVATING TO REQUEST LOCATIONS OF UNDERGROUND UTILITIES.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO DISCONNECT, REMOVE, AND/OR CAP OFF EXISTING UTILITY SERVICE LINES, POWER, TELEPHONE, NATURAL GAS, ETC.
- 20. CROSS-REFERENCE AND COORDINATE ALL WORK IN THE CONTRACT DOCUMENTS AMONG THE VARIOUS TRADES AND DISCIPLINES.
- THESE PLANS ARE SCHEMATIC AND ARE NOT INTENDED TO DEPICT ALL DETAILS OF THE WORK REQUIRED. THE CONTRACTOR IS RESPONSIBLE TO BECOME FAMILIAR WITH ACTUAL SITE CONDITIONS AND FACTORS AFFECTING WORK.
- 22. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH CITY OPERATIONS STAFF PRIOR TO COMMENCING WORK. REFERENCE TECHNICAL SPECIFICATION FOR SUGGESTED SEQUENCING OF PROJECT IMPROVEMENTS AND CONTINUITY OF OPERATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE OWNER, ENGINEER, AND RESIDENTS AS REQUIRED TO DETERMINE STATUS OF EXISTING SEWER SERVICES AS LIVE OR ABANDONED. CONTRACTOR SHALL PLUG ABANDONED SERVICES IN ACCORDANCE WITH STANDARD DETAILS.
- 23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS AND STANDARDS OF ANY JURISDICTIONAL BODY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA
- 24. THE CONTRACTOR SHALL NOTIFY ENGINEER A MINIMUM OF ONE (1) WEEK PRIOR TO SURVEY NEEDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL STAKES WITHIN THE CONSTRUCTION SITE AT ALL TIMES. ANY LOST OR OBLITERATED STAKES OR PINS WILL BE RE-SET AT CONTRACTOR EXPENSE.
- 26. EXISTING PROPERTY CORNERS OR SURVEY MONUMENTS SHALL BE PROTECTED DURING THE COURSE OF CONSTRUCTION. ANY DAMAGED OR OBLITERATED CORNERS OR MONUMENTS SHALL BE

RE-ESTABLISHED BY PROFESSIONAL SURVEYORS, LICENSED TO WORK IN THE STATE OF IDAHO, PRIOR TO FINAL ACCEPTANCE, AND PAID FOR BY THE CONTRACTOR.

- 27. THE CONTRACTOR SHALL LIMIT WORK AREA TO THE LIMITS OF THE CITY PROPERTY, RIGHT OF WAY, AND APPROVED EASEMENTS.
- 28. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE OWNER AND ENGINEER.
- 29. CONTRACTOR SHALL RETAIN AND PROTECT ACROSS ENTIRE SITE ALL EXISTING FEATURES INCLUDING UTILITIES, ROADS, CANALS, FENCES, STRUCTURES, TREES, LAGOONS, AND OTHER SITE IMPROVEMENTS (AS PRESENT) THAT ARE NOT IN DIRECT CONFLICT WITH THE WORK. DAMAGE BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 30. THE CONTRACTOR IS REQUIRED TO PROPERLY DISPOSE OF ALL DEBRIS REMOVED FOR CONSTRUCTION OF THE WORK.
- 31. THE OWNER RESERVES THE RIGHT TO SALVAGE ITEMS NOTED FOR DEMOLITION. CONTRACTOR SHALL DISPOSE OF ALL ITEMS NOT SALVAGED BY THE OWNER.
- ALLOW OWNER TO MAINTAIN EXISTING UTILITIES IN OPERATION AT ALL TIMES. OWNER WILL WORK WITH CONTRACTOR TO COORDINATE SHORT PERIODS OF SHUT DOWN, IF NECESSARY. SUCH SHUT DOWNS WILL REQUIRE PRIOR NOTICE. SEE THE TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 33. CONTRACTOR SHALL PROVIDE, MAINTAIN, AND PAY FOR SUITABLE QUALITY WATER AS REQUIRED FOR PROJECT WORK INCLUDING TESTING, DUST CONTROL, ETC.
- CONTRACTOR SHALL COORDINATE WITH STATE AND LOCAL INSPECTION AGENCIES AS REQUIRED FOR INSPECTION AND APPROVAL OF THE WORK (E.G., PLUMBING, MECHANICAL, ELECTRICAL, BUILDING, ETC.).
- FINISH GRADE SLOPE AWAY FROM BUILDINGS/STRUCTURES AT A MINIMUM OF 2% OR A MAXIMUM OF 25% FOR A MINIMUM DISTANCE OF 10' OR TO THE CATCH POINT WITH EXISTING GRADE (WHICH EVER IS GREATER) UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- 36. SITE SHALL BE CLEANED AND RESTORED TO ORIGINAL CONDITION UPON COMPLETION OF WORK. UNLESS NOTED OTHERWISE, PROVIDE FINAL SURFACE REPAIR TO ALL AREAS IMPACTED DURING THE COURSE OF THE WORK TO A CONDITION EQUAL TO OR BETTER THAN THAT PRESENT PRIOR TO BEGINNING WORK. ALL DISTURBED GRASSY AREAS SHALL BE RE-SEEDED AND MULCHED IMMEDIATELY AFTER CONSTRUCTION AND GROOMED TO ORIGINAL OR BETTER CONDITION.
- 37. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS, AND ALL OTHER PUBLIC RIGHTS-OF-WAY IN A CLEAN, SAFE AND USEABLE CONDITION. ALL SOIL, ROCK, OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION, AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY; PRIVATE OR PUBLIC, SHALL BE MAINTAINED IN A CLEAN, SAFE AND USEABLE CONDITION.
- 38. ALL UNDERGROUND UTILITY LATERALS SHALL BE INSTALLED AND APPROVED BEFORE CONSTRUCTION OF CURBS, CROSS GUTTERS, SIDEWALKS OR THE SURFACING OF STREETS.
- 9. ALL OPERATIONS CONDUCTED ON THE PREMISES SHALL BE RESTRICTED TO THE HOURS BETWEEN 7:00 AM to 7:00 PM, MONDAY THROUGH FRIDAY, UNLESS OTHERWISE APPROVED BY THE CITY. THIS INCLUDES THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT OR ANY OTHER ASSOCIATED EQUIPMENT. NO WORK SHALL BE PERFORMED ON WEEKENDS UNLESS REQUESTED BY CONTRACTOR IN WRITING WITH 48 HOURS NOTICE AND SUBSEQUENTLY AUTHORIZED IN WRITING BY THE OWNER.
- 40. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL, IN ACCORDANCE WITH THE M.U.T.C.D., CURRENT EDITION. AT LEAST 24 HOURS PRIOR TO DISRUPTION OF ANY TRAFFIC, TRAFFIC CONTROL PLANS SHALL BE PREPARED AND SUBMITTED FOR APPROVAL. NO WORK SHALL COMMENCE UNTIL A PERMIT IS ISSUED AND ALL APPROVED TRAFFIC CONTROL IS IN PLACE.
- 41. IF ANY ITEMS OF SUSPECTED HISTORICAL OR ARCHAEOLOGICAL VALUE ARE UNCOVERED DURING CONSTRUCTION THE CONTRACTOR WILL BE REQUIRED TO STOP WORK AND CONTACT THE IDAHO STATE HISTORIC PRESERVATION OFFICE.
- 42. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS ASSOCIATED WITH DEWATERING. DEWATERING DISCHARGE TO ADJACENT STREAMS OR DRAINS SHALL NOT BE ALLOWED UNTIL CONTRACTOR HAS SECURED NECESSARY PERMITS FOR DEWATERING. SEE CONTRACT DOCUMENTS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS ASSOCIATED WITH DEWATERING.

## EXISTING UTILITIES

- 1. APPROXIMATE LOCATIONS OF UTILITIES ARE SHOWN ON THE PLANS. THEY ARE TO BE USED FOR GENERAL INFORMATION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE APPROPRIATE UTILITY COMPANIES WHEN CONSTRUCTION MIGHT INTERFERE WITH NORMAL OPERATION OF ANY UTILITIES. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE APPROPRIATE UTILITY COMPANY FIELD-LOCATE ANY UTILITY INSTALLATIONS WHICH MIGHT BE AFFECTED BY CONSTRUCTION PRIOR TO BEGINNING WORK IN THAT AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SERVICE OF EXISTING UTILITIES AND FOR RESTORING ANY UTILITIES DAMAGED DUE TO CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. DEPTHS AND ELEVATIONS OF UTILITIES ARE UNKNOWN UNLESS OTHERWISE SHOWN. CONTRACTOR SHALL FIELD VERIFY UTILITY DEPTHS, ELEVATIONS, ANY DISCREPANCIES AND/OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING WITH AFFECTED FRANCHISE UTILITIES DURING CONSTRUCTION AND PROPERTIES WITH WATER AND SEWER SERVICES IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE NOTIFIED OF CONSTRUCTION ACTIVITIES A MINIMUM OF TWO (2) DAYS PRIOR TO DISRUPTING THEIR SERVICE(S).

## MECHANICAL NOTES

- MECHANICAL MATERIAL/EQUIPMENT SHOWN IS FOR SCHEMATIC PURPOSES. CONTRACTOR IS RESPONSIBLE FOR CORRECT QUANTITIES AND DIMENSIONS. CONSULT MANUFACTURER'S DETAIL DRAWINGS FOR DIMENSIONS AND INSTALLATION DETAILS.
- CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND ELEVATIONS AND CROSS REFERENCE THESE WITH ALL OTHER EQUIPMENT AND TRADES ASSOCIATED WITH THE WORK TO ENSURE PROPER INSTALLATION, OPERATION, ALIGNMENT, MOUNTING REQUIREMENTS, CONNECTION DETAILS, ETC. SUBMIT MANUFACTURERS CONNECTION DETAILS AND SHOP DRAWINGS PER THE SPECIFICATIONS.
- ALL THRUST BLOCKING SHALL BE FORMED IN PLACE AGAINST UNDISTURBED OR COMPACTED SOIL, AND CONFORM TO THE MINIMUM DIMENSIONS SHOWN IN THE CITY STANDARD DETAIL 4-4. THE USE OF PRE-CAST THRUST BLOCKS IS PROHIBITED. ALL BOLTS AND NUTS SHALL BE FREE OF CONCRETE AND ACCESSIBLE BY WRENCH.
- 4. ALL SANITARY SEWER MAINS SHALL BE SEPARATED AT LEAST 10 FEET HORIZONTALLY FROM DOMESTIC WATER LINES. CROSSINGS OF WATER MAINS AND SEWER SYSTEMS SHALL HAVE A MINIMUM 18-INCH VERTICAL SEPARATION WITH THE WATER MAIN BEING CENTERED OVER THE SANITARY SEWER. ANY ANTICIPATED SEPARATION DIFFERING FROM THE MINIMUM STANDARDS CONTAINED HEREIN SHALL CONFORM TO THE IDAHO RULES FOR PUBLIC DRINKING WATER, (IDAPA 58.01.16).

## PAVEMENT NOTES

- . PRIOR TO PLACING BASE MATERIAL, THE FOLLOWING SHALL BE COMPLETED: A. ALL PUBLIC UTILITIES SHALL BE INSTALLED. TESTED AND APPROVED.
- B. THE CONTRACTOR SHALL CERTIFY AND PROVIDE COPIES OF COMPACTION TEST RESULTS TO THE ENGINEER, FOR ALL TRENCHES, SUB-GRADE, AND AREAS UNDER CURB AND GUTTER. C. THE LINE AND GRADE OF THE SUB-GRADE SHALL BE INSPECTED AND APPROVED BY THE
- ENGINEER OF RECORD. D. A PROOF-ROLL OF THE SUB-GRADE SHALL BE PERFORMED AND OBSERVED BY THE ENGINEER OF RECORD AND CITY ENGINEERING INSPECTOR.
- CRUSHED AGGREGATE BASE SHALL CONFORM TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, SECTION 802, (TYPE 1) %-INCH MAXIMUM AGGREGATE SIZE, AND SHALL BE COMPACTED TO THE FOLL OWING SPECIFICATIONS:
- A. ROADWAY: 95%-MODIFIED PROCTOR.
- B. CURB BASE AND DRIVEWAY APPROACHES: 95%-MODIFIED PROCTOR.
   C. SIDEWALKS OR TRAILS: 95%-MODIFIED PROCTOR.
- PRIOR TO PLACING ASPHALT CONCRETE, THE FOLLOWING SHALL BE COMPLETED:
   A. THE CONTRACTOR SHALL PROVIDE QUALITY CONTROL COMPACTION TEST AND PROVIDE RESULTS TO THE ENGINEER OF RECORD. THE ENGINEER WILL PROVIDE QUALITY ASSURANCE TESTING AS DEEMED NECESSARY.
- B. ALL UTILITIES SHALL BE ADJUSTED TO GRADE AND ASPHALT COLLARS INSTALLED.
   C. OBTAIN AUTHORIZATION FROM THE CITY TO PROCEED WITH ASPHALT PAVING. THE CITY
- C. OBTAIN AUTHORIZATION FROM THE CITY TO PROCEED WITH ASPHALT PAVING. THE CITY INSPECTOR SHALL BE NOTIFIED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO PLACEMENT OF ASPHALT PAVEMENT.
- 4. NO ASPHALT SHALL BE PLACED ON WET OR FROZEN SURFACES, OR WHEN THE AIR OR GROUND TEMPERATURE IS LESS THAN 40°F. TOP COURSES OR PAVEMENT THICKNESS LESS THAN 2.5 INCHES SHALL NOT BE PLACED WHEN AIR OR GROUND TEMPERATURE IS LESS THEN 50°F, WITHOUT APPROVAL BY THE ENGINEER OF RECORD.
- 5. A TACK COAT SHALL BE APPLIED TO ALL ADJACENT CURBS AND JOINTS, PRIOR TO PLACEMENT OF ASPHALTIC CONCRETE.
- EXTRACTION AND GRADATION TESTS MAY BE REQUIRED AT THE DISCRETION OF THE CITY ENGINEER. ADDITIONALLY, CORING OF THE ASPHALT PAVEMENT MAY BE REQUESTED TO VERIFY PAVEMENT THICKNESS AND/OR COMPACTION AT NO COST TO THE OWNER.
- FORMS, SUB-GRADE AND STRING-LINE INSPECTION IS REQUIRED PRIOR TO POURING CONCRETE. A MINIMUM NOTICE OF 24 HOURS IS REQUIRED PRIOR TO INSPECTION.
- 8. CONCRETE SHALL NOT BE PLACED ON FROZEN SURFACES, ICE OR SNOW, OR SURFACES WITH A TEMPERATURE GREATER THAN 90°F. UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER OR ENGINEER OF RECORD, CONCRETE PLACEMENT SHALL BE DISCONTINUED WHEN AIR TEMPERATURES REACH 35°F AND FALLING UNLESS OTHERWISE APPROVED BY THE ENGINEER OF RECORD AND A COLD WEATHER CONCRETE POURING PLAN SUBMITTED BY THE CONTRACTOR AND HAS BEEN APPROVED BY THE CITY.
- CURB AND GUTTER SHALL BE CONSTRUCTED WITH FULL DEPTH CONSTRUCTION EXPANSION JOINTS ADJACENT TO CATCH BASINS, AND AT ALL RETURNS. WEAKENED PLANE JOINTS ARE REQUIRED EVERY 10 FEET.
- SIDEWALKS SHALL BE CONSTRUCTED WITH FULL DEPTH EXPANSION JOINTS EVERY 20 FEET, AND WEAKENED PLANE JOINTS EVERY 5 FEET. JOINTS IN THE SIDEWALK SHALL BE ALIGNED WITH CURB JOINTS, AS NEARLY AS PRACTICAL.
- 11. ALL EXISTING IMPROVEMENTS INCLUDING CURB AND GUTTER, SIDEWALKS, ASPHALT, CONCRETE OR P.C.C. PAVING, WHICH ARE BEING JOINED OR MATCHED IN CONNECTION WITH THIS PROJECT, SHALL BE JOINED OR MATCHED IN A MANNER SATISFACTORY TO THE ENGINEER, INCLUDING NECESSARY SAW CUTTING, REMOVAL, REPLACEMENT AND CAPPING.
- SURFACE REPAIR ASPHALT SHALL BE A PLANTMIX PAVEMENT, SP-3, 1/2-INCH NOMINAL SIZE. ASPHALT CEMENT SHALL BE PG 64-28 MEETING THE REQUIREMENTS OF ISPWC SECTION 805 OR APPROVED HIGHER GRADE OIL.
- ALL CONTRACTORS WORKING IN THE RIGHT-OF-WAY ARE REQUIRED TO SECURE A RIGHT-OF-WAY (ROW) CONSTRUCTION PERMIT FROM THE CITY OF LEWISTON AT LEAST TWENTY FOUR (24) HOURS PRIOR TO ANY CONSTRUCTION.
- 14. THE CITY OF LEWISTON WILL INSPECT ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY TO INCLUDE UTILITY TRENCHES. THE CITY WILL INSPECT ALL CONNECTIONS TO EXISTING INFRASTRUCTURE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE CHANGES TO TRAFFIC WITH THE CITY OF LEWISTON STREET MAINTENANCE DIVISION.

## WATER SYSTEM NOTES

- CONSTRUCTION OF POTABLE WATER LINES SHALL CONFORM TO THE STANDARDS IN THE "IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08)" AS WELL AS ISPWC. PROPERTIES SHALL BE NOTIFIED AS OUTLINED IN EXISTING UTILITIES NOTE NO. 2.
- 2. THE HORIZONTAL SEPARATION OF POTABLE WATER MAINS AND NON-POTABLE WATER MAINS (SANITARY SEWER, STORM DRAIN, AND IRRIGATION) SHALL BE A MINIMUM OF TEN (10) FEET. WHERE IT IS NECESSARY FOR POTABLE WATER MAIN AND NON-POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL SEPARATION, THE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 542.07 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08) AND SECTION 430.02 OF THE WASTEWATER RULES (IDAPA 58.01.16).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING EXISTING WATER USERS PRIOR TO DISRUPTING SERVICE IN ACCORDANCE WITH EXISTING UTILITIES NOTE NO. 2. NO USER SHALL BE WITHOUT WATER OR SEWER SERVICE OVERNIGHT. NO USER SHALL BE WITHOUT WATER AND SEWER FOR MORE THAN 4 HOURS DURING NORMAL BUSINESS HOURS.
- ALL WATER WORKS COMPONENTS SHALL BE ANSI/NSF 61 CERTIFIED, AND MUST MEET ALL AMERICAN WATER WORKS ASSOCIATION (AWWA) AND STANDARD REQUIREMENTS OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 56.01.08).
- THE DESIGN, CONSTRUCTION, INSTALLATION, MAINTENANCE AND MATERIALS TO COMPLETE A TEMPORARY DEWATERING SYSTEM TO PROVIDE ADEQUATE DEWATERING DURING CONSTRUCTION WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT INCLUDED IN THE PROJECT.
- ALL UTILITY CROSSINGS SHOWN ON THE PLANS ARE INCIDENTAL TO THE PROJECT UNLESS OTHERWISE NOTED WITH A SPECIFIC PAY ITEM.
- 7. THE NEW WATER MAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND THE CITY OF LEWISTON STANDARD DRAWINGS. ALL WORK SHALL ALSO BE IN ACCORDANCE WITH THE SPECIFICATIONS OF ISPWC. ALL WORK SHALL BE SUBJECT TO ACCEPTANCE BY THE CITY OF LEWISTON PURSUANT TO THE ENGINEERING DEPARTMENT'S CURRENT INSPECTION CHECKLIST.
- THE CONTRACTOR SHALL PRESSURE TEST THE NEW WATER MAIN IN ACCORDANCE WITH ISPWC SECTION 401.
- 9. THE CITY'S WATER DISTRIBUTION SUPERVISOR (208-791-2032) SHALL BE CONTACTED 2 BUSINESS DAYS PRIOR TO ANY PRESSURE TESTING/DISINFECTION OF THE PUBLIC MAIN. THE DISINFECTION PROCEDURES CAN ONLY BE SCHEDULED ON MONDAY, TUESDAY OR WEDNESDAY, HE SHALL ALSO BE CONTACTED 2 BUSINESS DAYS PRIOR TO ANY TIE IN. TIE INS CAN OCCUR ON ANY WEEKDAY BUT MUST OCCUR BEFORE NOON ON FRIDAY. ANY ALTERATIONS TO THESE NOTIFICATIONS OR WORK SCHEDULES MUST BE APPROVED BY THE ENGINEER. THE CITY RESERVES THE RIGHT TO BILL THE CONTRACTOR FOR OVERTIME FOR IF WORK IS REQUESTED TO BE AFTERHOURS OR ON WEEKENS.
- 10. CONNECTION TO EXISTING MAINS SHALL BE IN THE PRESENCE OF CITY WATER DEPT PERSONNEL.
- 11. THE CITY OF LEWISTON SHALL HAVE THE FIRST RIGHT OF REFUSAL TO ANY REMOVED/SALVAGED WATER SYSTEM COMPONENTS (HYDRANTS, VALVES, ETC)..
- 12. ALL FITTINGS AND VALVES SHALL HAVE MJ JOINTS UNLESS MULTIPLE FITTINGS AND/OR VALVES ARE TOGETHER IN A SINGLE ASSEMBLY, IN WHICH CASE, COMMON JOINTS BETWEEN THEM SHALL BE FLANGED. MJ TO MJ CONNECTIONS SHALL INCLUDE A FOSTER ADAPTER IN BETWEEN. AL HORIZONTAL FITTINGS, VERTICAL FITTINGS, AND VALVES SHALL BE FULLY RESTRAINED BY THRUST BLOCKS PER CITY STANDARD DRAWINGS AND ISPWC DIVISION 400.

## CONSTRUCTION STAKING NOTES

- 1. CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION LAYOUT FROM ESTABLISHED CONTROL POINTS, PER SPECIFICATION SECTION 01039.1.3.
- 2. CONTRACTOR RESPONSIBLE FOR PROTECTING SURVEY STAKES. RESTAKING WILL BE AT THE CONTRACTOR'S EXPENSE.



Know what's **below**. **Call** before you dig

CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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S S S T.	J-U-B ENGINEERS, INC.	Phone: 208.746.9010 www.jub.com
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CE I D F	REUSE OF DRAWINGS JU-UB SHALL RETAIN ALL COMMON LWE STATUORY, COPYRIGHT AND OTHER RESERVED RIGHTS OF THESE DRAMINGS, AND THE SAME SHALL NOT BE REUSED MINOUT JU-UP SPRORG WITHEN CONSENT ANY REUSE WITHOUT WAITTEN CONSENT FV-JU-UB WILL BE AT CLIETYS SOLE RISK AND WITHOUT LUABILITY OR LEGAL EXPOSURE TO JU-UB.	HEVISION HEVISION NO. DESCRIPTION BY APRIL DATE
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Name       Note	OF TESTING. RESULTS ARE TO BE D THE CONTRACTOR IS RESPONSIBLE	DELIVERED TO SPECIAL INSPÈCTOR, OWNER AND ENGINEER. E TO COORDINATE WITH ENGINEER AND SPECIAL INSPECTOR FOR INSPECTIONS OF V	VORK				J-U-BENG
Base       States	ARE THE RESULT OF HIS WORKMAN	NSHIP.	ТНАТ				L I I
Barter Barter Barter Barter Barter Barter Barter 		1	TEST / STANDARD	ACCEPTANCE	TEST FREQUENCY	INSPECTOR/CO.	
Base State         State Sta	UTILITY TRENCHES & STRUCTURES				ONE IN-PLACE DENSITY TEST EVERY LIFT		
mm Barbon <br< td=""><td>CH SUBGRADE</td><td>NATIVE (6" TO 8" LIFTS MAX.)</td><td>MOISTURE DENSITY RELATIONSHIP OF SOILS (AASHTO T 180) IN-PLACE DENSITY AND MOISTURE CONTENT (AASHTO 310 METHOD B)</td><td>90% MAX. DRY DENSITY</td><td>PER 100 LINEAR FEET. IF PROJECT IS LESS THAN 100 LINEAR FEET, ONE IN-PLACE DENSITY</td><td>BY TESTING SUBCONTRACTOR</td><td>outh ENC</td></br<>	CH SUBGRADE	NATIVE (6" TO 8" LIFTS MAX.)	MOISTURE DENSITY RELATIONSHIP OF SOILS (AASHTO T 180) IN-PLACE DENSITY AND MOISTURE CONTENT (AASHTO 310 METHOD B)	90% MAX. DRY DENSITY	PER 100 LINEAR FEET. IF PROJECT IS LESS THAN 100 LINEAR FEET, ONE IN-PLACE DENSITY	BY TESTING SUBCONTRACTOR	outh ENC
SMILL PARK         SMILL PARK PARK PARK PARK PARK PARK PARK PARK	BEDDING	(CURRENT ITD SPEC 703.04) OR 5/8" MINUS CRUSHED AGGREGATE (6" TO 8" MAX. LIFT)		95% MAX. DRY DENSITY	PER 100 LINEAR FEET. IF PROJECT IS LESS THAN 100 LINEAR FEET, ONE IN-PLACE DENSITY TEST PER DAY OR PER LIFT [WHICHEVER TEST FREQUENCY IS MORE RESTRICTIVE]. TEST TOP	BY TESTING SUBCONTRACTOR	J-U-B 201 Sc
Control with and a problem of the control o	OOT [12"] OF FILL OVER PIPE	(CURRENT ITD SPEC 703.04) OR 5/8" MINUS CRUSHED AGGREGATE (6" TO 8" MAX. LIFT)		95% MAX. DRY DENSITY	PER 100 LINEAR FEET. IF PROJECT IS LESS THAN 100 LINEAR FEET, ONE IN-PLACE DENSITY	BY TESTING SUBCONTRACTOR	
Balance         Balance and Balance		CITY APPROVED EXCAVATED MATERIAL	AASHTO T 180	90% MODIFIED PROCTOR	PER 100 LINEAR FEET. IF PROJECT IS LESS THAN 100 LINEAR FEET, ONE IN-PLACE DENSITY	BY TESTING SUBCONTRACTOR	
MANUAMANUAMANUAL		(CURRENT ITD SPEC 703.04) OR 5/8" MINUS CRUSHED AGGREGATE (6" TO 8" MAX. LIFT)		95% MAX. DRY DENSITY	PER 100 LINEAR FEET. IF PROJECT IS LESS THAN 100 LINEAR FEET, ONE IN-PLACE DENSITY	BY TESTING SUBCONTRACTOR	
NAMEN	JCTURAL FILLS		AS SPEC'D BY ENGINEER	95% MAX. DRY DENSITY	AS SPEC'D BY ENGINEER	BY TESTING SUBCONTRACTOR	
BalanceSector SectorSector Sector SectorSector Sector SectorSector Sector Secto	ORM DRAIN MAINS						g .F
July 10Substrate <t< td=""><td></td><td>PVC SDR-35</td><td>ISPWC SECTION 601</td><td>CERTIFIED &amp; VISUAL BY CITY</td><td>DURING INSTALLATION</td><td>BY OWNER/ENGINEER</td><td>A CLIEN</td></t<>		PVC SDR-35	ISPWC SECTION 601	CERTIFIED & VISUAL BY CITY	DURING INSTALLATION	BY OWNER/ENGINEER	A CLIEN
mark mark mark mark mark mark mark markmark mark mark mark mark mark mark mark mark mark mark mark 		N/A	PER MANUFACTURER'S INSTRUCTIONS	PER PLANS	DURING INSTALLATION	BY OWNER/ENGINEER	HE SA I CON
Bind         Number         Number <td>S (DEFLECTION/PROPER PIPE DMENT)</td> <td>N/A</td> <td>PER MANUFACTURER'S INSTRUCTIONS</td> <td>PER PLANS</td> <td>DURING INSTALLATION</td> <td>BY OWNER/ENGINEER</td> <td>AND T AND T 3 WILL OSUR</td>	S (DEFLECTION/PROPER PIPE DMENT)	N/A	PER MANUFACTURER'S INSTRUCTIONS	PER PLANS	DURING INSTALLATION	BY OWNER/ENGINEER	AND T AND T 3 WILL OSUR
Name         Instrume         Instrume <th< td=""><td></td><td></td><td></td><td>PER ISPWC SECTION 501 TABLE 1</td><td>PRIOR TO COMMISSIONING</td><td>BY OWNER/ENGINEER</td><td>L EXP.</td></th<>				PER ISPWC SECTION 501 TABLE 1	PRIOR TO COMMISSIONING	BY OWNER/ENGINEER	L EXP.
NAME NAME NAME RELATIONSControlC							AWIN 7, STA 7, S
MAYMA	INSPECTION	N/A	N/A				N LAW N LAW J-U-E CONSE
NameAnd AndMarket andMarket and AndMark	TER MAINS						OF THOUT
Bindley Constraint Bindley Constraint Bindle	LE IRON WATER MAIN	AWWA C-151	ISPWC SECTION 401	CERTIFIED & VISUAL BY CITY	DURING INSTALLATION	BY OWNER/ENGINEER	
why vorsionmodelmode		N/A	ISPWC SECTION 401	VISUAL BY CITY OR ENGINEER	DURING INSTALLATION		ED RIN A HOUT WITH
Number         Number<		N/A	ISPWC SECTION 401	VISUAL BY CITY OR ENGINEER	DURING INSTALLATION		LL RE SERV E WIT E WIT AND
NA     NA     OPAC SCIND 46.1     MARKAN KULLATO 24.77 //     MARKAN	ST BLOCKS	CONCRETE, 2500 PSI MAX	CITY STANDARD DRAWING 4-4 OR ISPWC SECTION 401, WHICHEVER IS MORE STRINGENT	PER SUBMITTAL, VISUAL BY CITY OR ENGINEER	PER PLAN	BY OWNER/ENGINEER	ER SHAL
NANANAMEWA CACTOR 247.0MARKA CA	OSTATIC PRESSURE	N/A	2 HOURS, NOT TO EXCEED ALLOWABLE LEAKAGE PER ISPWC SECTION 401		PRIOR TO CONNECTION TO EXISTING SYSTEM	BY OWNER/ENGINEER	J-U-B OTHE SHALI ANY F
No.         No. <td>ling</td> <td>N/A</td> <td>ISPWC SECTION 401</td> <td></td> <td>PRIOR TO CONNECTION TO EXISTING SYSTEM</td> <td>BY OWNER/ENGINEER</td> <td></td>	ling	N/A	ISPWC SECTION 401		PRIOR TO CONNECTION TO EXISTING SYSTEM	BY OWNER/ENGINEER	
Image: Control of the control of th							
HERE ALL SIGNAMENTAL DESCRIPTION OF ALL ADDRESS TREADING DURING DURI	IST CONTROL/FITTINGS	N/A	PER PLAN AND SUBMITTAL(S)	VISUAL INSPECTION BY CITY OR ENGINEER	PRIOR TO BACKFILLING TIE IN LOCATIONS	BY OWNER/ENGINEER	
Int TCurrent Structure Control Column Control Control Column Control	NCRETE CURB, GUTTER & SIDEWALK						
Incluster       CLURRENT TO SATURD OR TO SA	CRETE	LB/CY, MAX WATER/ CEMENT RATIO OF .44, A WRA, AND AN AEA	AASHTO T-23 MAKING TEST SPECIMENS AASHTO T-119 SLUMP OF HYDRAULIC CEMENT CONCRETE AASHTO T-152 AIR CONTENT OF FRESHLY MIXED CONCRETE	LB/LB MAX. SLUMP = 5 INCHES AIR CONTENT PERCENT = 6.5% ± 1.5		BY TESTING SUBCONTRACTOR	
RPAVE HOT MIX ASPHALT       PRAVEMENT, SP-3, 1/2-INCH NOMINAL SIZE ASPHALT CEMERT SHALL BE RG SPECE AS MEETING THE REQUIREMENTS OF SECTION 805 OR APPROVED HIGHER GRADE OLL       ISPACE ALL       PROJECT 200 TONS OR ULES - MIXINUM OF 1 TST (SRAPHALT CONTETT, LOG GRADATION) FER PROJECT A MINIMUM OF 2 CORES WILL BE TAREN TO DETERMINE FINAL THICKNESS AND/OR DENSTY.       ISPACE ALL       ISPACE ALL<	HED AGGREGATE BASE COURSE	(CURRENT ITD SPEC 703.04) OR 5/8" MINUS CRUSHED AGGREGATE (4" MAX. LIFT)		95% MAX. DRY DENSITY	1 TESTS PER 500 LF-MIN. 2 TESTS	BY TESTING SUBCONTRACTOR	ELL NO. 7 COMPLETION
RPAVE HOT MIX ASPHALT PLANTIMIX PAVEMENT, SP3. 1/2-INICH NOMINIAL SIZE ASPHALT CEMERT SHALL BE PG SP3. 1/2-INICH NOMINAL SIZE ASPHALT CEMERT SHALL BE PG SP3. 1/2-INICH NOMINAL SIZE ASPHALT CEMERT SHALL BE PG SP3. 1/2-INICH NOMINAL SIZE ASPHALT CEMERT SHALL BE PG SP3. 1/2-INICH NOMINAL SIZE ASPHALT CEMERT SHALL BE PG SP3. 1/2-INICH NOMINAL SIZE ASPHALT CEMERT SHALL BE PG SP3. 1/2-INICH NOMINAL SIZE ASPHALT CEMERT SHALL BE PG SP3. 1/2-INICH SIZE ASPHALT SHALL							
PARTNEY PAREMENT, SP.3. 1/2-INCH NOMINAL SZE ASPHALT CEMENT SHALL BE PG       ISPACE HOT MIX ASPHALT       INSPECT A MINIMUM OF IST IST SHAPHALT CONTEXT. CONTEXT. COMPANY LOG GAAD TONIN (OF IST IST SHAPHALT CONTEXT. CONTEXT. COMPANY LOG GAAD TONIN (OF IST IST SHAPHALT CONTEXT. CONTEXT. COMPANY LOG GAAD TONIN (OF IST IST SHAPHALT CONTEXT. CONTEXT. COMPANY LOG GAAD TONIN (OF IST IST SHAPHALT CONTEXT. CONTEXT. COMPANY LOG GAAD TONIN (OF IST IST SHAPHALT CONTEXT. CONTEXT. COMPANY LOG GAAD TONIN (OF IST IST SHAPHALT CONTEXT. CONTEXT. COMPANY LOG GAAD TONIN (OF IST IST SHAPHALT CONTEXT. CONTEXT. COMPANY LOG GAAD TONIN (OF IST IST SHAPHALT CONTEXT. CONTEXT. COMPANY LOG GAAD TONIN (OF IST IST SHAPHALT CONTEXT. CONTEXT. COMPANY LOG GAAD TONIN (OF IST IST SHAPHALT CONTEXT. CAN IST IST GAAD TONIN GAAD TAN IST G							으로
PAVE HOT MIX ASPHALT WE PAVEMENTS AS UNDER A. CONCRETE CURB, GUTER & SDEWALK SECTION 805 S A SPECO PAVE INSTRUCTIONS SECTION 8							ΞŽ
RPARE HOT MIX ASPHALT       RAWE TEST REQUIREMENTS OF SECTION 805 OR APPROVED HIGHER GRADE OLI       SPECID SPECID REGO PROVED HIGHER GRADE OLI       SPECID SPECID REGO PROVED HIGHER GRADE OLI       SPECID SPECID REGO PROVED HIGHER GRADE OLI       SPECID SPECID SPECID REGO PROVED HIGHER GRADE OLI       SPECID SPECI	PHALTIC CONCRETE PAVING						二 乱 2
shee ageregate base course       shee test requirements as under 4. concrete curse, gutter & sindewalk       in concrete curse, gutter & sinde	ERPAVE HOT MIX ASPHALT		ISPWC SECTION 805	ASPHALT CONTENT - CIMF VALUE ±0.3& SIEVE ANALYSIS - TABLE 405.03-5 VOIDS IN MINERAL AGGREGATES, AT N DESIGN - 703.05 MINIMUM VALUE 0.05 B ALL PROJECTS REGARDLESS OF TONNAGE IN-PLACE DENSITY - 92-96% OF MAXIMUM THEORETICAL (WHEN ACCEPTANCE WILL BE FROM CORRELATED GAUGE, CONTRACTOR MUST SUBMIT DOCUMENTATION SHOWING	MINIMUM OF 1 TEST (ASPHALT CONTENT, AND GRADATION) PER PROJECT. A MINIMUM OF 2 CORES WILL BE TAKEN TO DETERMINE FINAL THICKNESS AND/OR DENSITY. PROJECTS 200 TONS OR MORE - MINIMUM OF 1 TEST (ASPHALT CONTENT, GRADATION, VOIDS, AND VMA) PER 750 TONS OR, ONE PER DAY. A MINIMUM OF 5 CORES WILL BE TAKEN TO DETERMINE FINAL THICKNESS AND/OR DENSITY. RANDOM SAMPLING LOCATIONS DETERMINED BY THE CITY OF LEWISTON. THE CITY OF LEWISTON RESERVES THE RIGHT FOR 3RD PARTY VERIFICATION, INSPECTIONS,	BY TESTING SUBCONTRACTOR	MELL CO
Image: section of the section of th	SHED AGGREGATE BASE COURSE	SAME TEST REQUIREMENTS AS UNDER 4. CONCRETE CURB, GUTTER & SIDEWALK					
Image: section of the section of th					1/WFFK OR AFTER EVERY RAINFALL	BY OWNER/ENGINEER	
Image: second pawings     PDF OR PAPER COPY OF CONTRACTOR MARKED UP RECORD DRAWINGs     PER SPECIFICATIONS     COMPLETE SET OF RECORD DRAWINGS     BEFORE PUBLIC IMPROVEMENTS ACCEPTED     BY OWNER/ENGINEER       ONCRETE     AS SPEC'D BY ENGINEER     AS SPEC'D BY ENGINEER     AS SPEC'D BY ENGINEER     Des in the second pawing in t							
COND Drawings       Op/ or Paper COPY of CONTRACTOR MARKED OF RECORD Drawings       Per Specifications       Per Specifications       Dess         NCRETE       AS SPEC'D BY ENGINEER       AS SPEC'							FILE : 21-20-007 JUB PROJ. # : 21- DRAWN BY: ARE
KOILS       AS SPEC'D BY ENGINEER       AS SPEC'D BY ENGINEER       AS SPEC'D BY ENGINEER       AS SPEC'D BY ENGINEER							DESIGN BY: BK
							CHECKED BY: D
	JUILS	AS SPECID BY ENGINEER	AS SPECID BY ENGINEER	AS SPEC'D BY ENGINEER	AS SEC D BY ENGINEEK	AS SPECID BY ENGINEER	AT FULL SIZ INCH, SCALI LAST UPDATED:

		LINE L	<u>EGEND</u>					<u>/BERING</u>	S
	PROPOSED	EXISTING		PROPOSED	EXISTING	]	SAMPLE: C-		
		LINE		LINE	LINE			LINE DESIGNATOR TYPE DESIGNATOR	GENERAL (G)
POWER / COMMUNICA			BOUNDARY				SHEET	SEQUENCE NUMBER	G-001 G-002
OVERHEAD POWER	OHP	ОНР	PROPERTY LINE	P/L	P/L				G-002 G-003
UNDERGROUND POWER	UP	———— UP ————	PROPERTY LINE			DISCIP	LINE DESI	GNATORS	G-004
OVERHEAD TELEPHONE	OHT	OHT	RIGHT OF WAY	——— R/W———	R/W	DISCIPLINE	DESIGNATOR		0 004
UNDERGROUND TELEPHONE	UT	— — — — UT — — — —	TEMPORARY EASEMENT	T/E	T/E		G	ALL GENERAL GENERAL	G-005
FIBER OPTIC	F/0	F/0	PERMANENT EASEMENT	P/E	P/E	GENERAL	GI	INFORMATION	
CABLE TELEVISION	СТУ	CTV	TOWNSHIP AND RANGE				GC	GENERAL CONTRACTUAL	V-101
UNDERGROUND POWER,		— — — P,T,CTV – — –	SECTION LINE				GR	GENERAL RESOURCE	CIVIL (C)
TEL, CABLE TV			QUARTER SECTION LINE				V	ALL SURVEY	C-101
UNDERGROUND POWER, TEL, CABLE TV, GAS		— — — P,T,CTV,G — — —	1/16 SECTION LINE			GEOTECHNICAL	B	ALL GEOTECHNICAL	C-102 C-103
STORM DRAIN			STATE LINE			LANDSCAPE	L	ALL LANDSCAPE	C-104
STORM DRAIN (GENERAL)	SD	— — — — SD — — — —				STRUCTURAL	S	ALL STRUCTURAL	
STORM DRAIN	X"SD	x"sd	COUNTY LINE			ARCHITECTURAL	A	ALL ARCHITECTURE	C-105
ROOF DRAIN	RD	— — — RD — — — —	SITE			EQUIPMENT MECHANICAL	Q M	ALL EQUIPMENT	C-106
			FENCE	x	×	ELECTRICAL	E	ALL MECHANICAL	C-501
SANITARY SEWER SANITARY SEWER (GENERAL)	SS	s	FENCE			PLUMBING	P	ALL PLUMBING	C-502
, ,			MAJOR CONTOUR	2521		PROCESS	D	ALL PROCESS	C-503 C-504
SANITARY SEWER	X*SS	x"ss	MINOR CONTOUR			RESOURCE	R	ALL RESOURCE	C-504 STRUCTURAL
SANITARY SEWER SERVICE	SSSS	SS SS	GRADE BREAK		GB				S-001
SEWER FORCE MAIN	FM	— — — — FM — — — —	TOP OF BANK	тов	тов	SHEET	TYPE DES	GIGNATORS	S-101
WATER			TOE OF SLOPE	тое	TOE	DESIGNATOR		EET TYPE	S-102
WATER (GENERAL)	w	w	CUT LIMITS			0 GENE		LS, LEGENDS, NOTES,	S-501
WATER (SPECIFIED SIZE)	——————————————————————————————————————	x"w	FILL LIMITS				S (HORIZONT		S-502
WATER SERVICE		WSWS	DITCH			2 ELEV	ATIONS, PROF ROFILES	FILES, COMBINED PLAN	S-503
IRRIGATION							IONS (SECTIC	NAL VIEWS)	S-901
IRRIGATION	IRR		STORM SWALE				E-SCALE VIE		
GRAVITY IRRIGATION	GIRR	GIRR	EDGE OF WATER				ATIONS, ECT.) LS OR COME	BINED DETAILS AND	S-902
PRESSURE IRRIGATION	PIRR	- — — – PIRR — — — —	HIGH WATER			5 SECT			ARCHITECTU
POTABLE WATER	PW	PW	WETLAND		WET		DULES AND	DIAGRAMS	A-001
NON-POTABLE WATER	NPW	- — — – NPW — — — —	WETLAND BOG		BOG		DEFINED		
GAS			WETLAND MARSH		MRSH			ONS (ISOMETRICS,	A-101
NATURAL GAS	c	6	WETLAND SWAMP		SWMP		PECTIVES, PH	HOTOS)	A-201
NATURAL GAS SERVICE		6 6	GRADE BREAK	• • • • • • •					A-202
	HPC		ROADWAY			FIRE (F)			A-202
HIGH PRESSURE GAS			ROAD SHOULDER				DEPARIMENT	EVIEW COMMENTS FORM	A-301
LIQUID GAS		LG	ROAD CENTERLINE			Add. 5			A-302
UTILITY			ROAD ASPHALT		— — — — EP — — — —				A-901
CHLORINE LINE	CHL	- — — – CHL — — — —	ROAD GRAVEL		— — — — EG — — — —				
INDUSTRIAL WASTE WATER	IWW	IWW	TOP BACK OF CURB						
DRAIN LINE		DL	LIP OF GUTTER						A-902
			LANDSCAPING LIMITS	1\$	LS				A-903
SECTION .	AND DETAI	L IDENTIFIERS				]			A-904
SECTION IDENTIFIC		DETAIL IDENTIF	ICATION						A-905
	$\sim$	DETAIL NUMBER -							A-906 PROCESS
SECTION LETTER			×						MECHANICAL
」 ■		SHEET NUMBER WHERE -	C-501						D-101
DETAIL DRAWING IS LOCATED		DETAIL DRAWING IS LOCATED		PLACED IN THE LOWER					D-301
				ER IF THE DETAIL DRAW 5 LOCATED ON THE SAM					D-302
SECTION LETT			ER						D-501

ET LIST	D-502	WELL HOUSE DETAILS	(JUB)
SHEET TITLE	D-503	WELL HOUSE DETAILS	
0	D-504	WATER SERVICE SCHEMATIC	J-U-B ENGINEERS, INC.
COVER	INSTRUMENTATION (I)		eet C.
GENERAL NOTES SPECIAL INSPECTION	I-001	PIPING AND	ERS, II son Str 83843 83843 6.9010
TABLE	1.000		838 836 EBS
LEGEND, PLAN ORGANIZATION AND	I-002	PIPING AND	
SHEET INDEX ABBREVIATIONS AND	ELECTRICAL (E)	DIAGRAM	l GI U GI ww.j
SYMBOLS	E-001	ELECTRICAL LEGEND	-B ENGINE I South Jack Moscow, ID Phone: 208.74 www.jub.c
	E-002	OVERALL ELECTRICAL SITE PLAN	U-B
SURVEY CONTROL	E-003	ONE LINE DIAGRAM	52 
SITE PLAN	E-004	CONDUIT AND WIRE	
YARD PIPE PLAN	E-005	SCHEDULE ELECTRICAL	
TRANSMISSION MAIN TO RESERVOIR TANK	F 101	SCHEDULES	
TRANSMISSION MAIN	E-101	WELL HOUSE POWER AND CONTROL PLAN	
TO RESERVOIR TANK TRANSMISSION MAIN	E-102	WELL HOUSE LIGHTING AND	
TO RESERVOIR TANK TRANSMISSION MAIN		RECEPTACLE PLAN	
TO RESERVOIR TANK	E-103	WELL HOUSE HVAC PLAN	<u>_</u>
SITE DETAILS	E-104	WELL HOUSE GROUNDING PLAN	AND
YARD PIPING DETAILS STANDARD DETAILS	E-201	LOCAL CONTROL	ALL RELISE OF DRAWINGS U-U-U-U-U-U-U-U-U-U-U-U-U-U-U-U-U-U-U-
STANDARD DETAILS		PANEL "LCP-7" ELEVATION AND	COPYRIC VID THE S/ MILL BE A' SURE TO.
	F 000	WIRING DIAGRAM	ANY AWRIT B
GENERAL STRUCTURAL NOTES	E-202	LOCAL CONTROL PANEL "LCP-7" WIRING	STATUCE STATUCE SPRICE FRICE FRICE FRICE FRICE
FOUNDATION PLAN	E-203	DIAGRAM LOCAL CONTROL	REUSE OF DRAWINGS STATU- IS OF THEES PRAVIUN IS OF THES PRAVIO ATTEN CONSENT PJ TLUABILITY OR LEGAL REVISION REVISION
ROOF PLAN	2 200	PANEL "LCP-7" WIRING	REUSE O SOMMON SOF TH SOF TH SOF THOUT ITTENOT LIABILIT RE RE RE RE
STRUCTURAL FOUNDATION DETAILS	E-204	DIAGRAM LOCAL CONTROL	
STRUCTURAL ROOF DETAILS		PANEL "LCP-7" WIRING DIAGRAM	SHALL RETAIN ALL R RESERVED RIGH L NOT BE REUSED REUSE WITHOUT W RISK AND WITHOL
STRUCTURAL PUMP	E-301	ELEVATION DETAILS	HALL R VOT BE ISK AN
SUPPORT DETAILS CONCRETE TYPICAL	E-302	ELECTRICAL DETAILS	0.000 COLLER S
DETAILS	E-303	ELECTRICAL DETAILS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
WOOD TYPICAL DETAILS			
BUILDING & ENERGY			
CODE ANALYSIS,			X
BUILDING ENVELOPE REQUIREMENTS			
FLOOR PLAN			WELL NO. 7 WELL COMPLETION .EGEND, PLAN ORGANIZATION AND SHEET IND
NORTH & EAST EXTERIOR			
ELEVATIONS			
SOUTH & WEST EXTERIOR			AN AN
ELEVATIONS BUILDING SECTION			
BUILDING SECTION			N H H H H H
GENERAL NOTES,			WELL NO. 7 .L COMPLETION RGANIZATION AND S
MANF PRODUCT & COLOR SCHEDULE,			⊴d   C
ROOM & MISC SCHEDULE			
DOOR SCHEDULE &			S R
DETAILS WINDOW TYPES &			О, Р
DETAILS			I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
MISC DETAILS ROOF DETAILS			EG
ROOF HATCH DETAILS			
WELL HOUSE PLAN			
VIEW WELL HOUSE SECTION			FILE : 21-20-007_G-001X JUB PROJ. # : 21-20-007
VIEW			DRAWN BY: ARB DESIGN BY: BK
WELL HOUSE SECTION			CHECKED BY: DLW
WELL HOUSE DETAILS			AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY LAST UPDATED: 5/27/2021
			SHEET NUMBER:
			G-004

[			
	SYMBOL DESCRIPTION	EXISTING SYMBOL	
	SURVEY		
	CAP (ALUMINUM)	$\oplus$	
	CAP (BRASS)	•	
	CHISELED X	$\boxtimes$	
	CTRL PT GENERIC	8	
	CTRL PT ½" REBAR	▲1/2" PIN CONTROL PT	
	CTRL PT %" REBAR	▲ 5/8" PIN CONTROL PT	
	CTRL PT 60D NAIL	A 60D	
	CTRL PT HUB & TACK	<u>А</u> нт	
	CTRL PT PK NAIL	🛆 рк	
	CTRL PT TEMP BENCH MARK	🕭 твм	
	NAIL		0
	NAIL AND TAG	$\bigcirc^{N/T}$	
	NAIL (PK)	Ø <sup>pk</sup>	
	BOLT	•	
	DRILL STEEL	0	
	REBAR (½")	0	•
	REBAR (%")	0	۲
	STAINLESS STEEL ROD	۲	
	IRON PIPE	۵	
	RAILROAD SPIKE	$\diamond$	
	R/W MONUMENT	0	
	STONE	$\oplus$	
		22 15	
MG	SECTION CORNER. MON.	21 16	
G-001X.DWG	SECTION QUARTER MON.	15	
	SITE	22	
HEET/21	BOLLARD	Ø	Ø
N/CAD/SI	BOULDER	0	۲
<b>PLETIOI</b>	DRINKING FOUNTAIN	DF	DF
ELLCON	FLAGPOLE	Ē	Ē
N/130-W	GATE		
77DESIG	MAIL BOX	M	M
WELLNG	PARKING METER	PM	PM
-20-007	POST	0	•
IECTS/21	SIGN	<del></del>	-
TYPRO	SPOT ELEVATION		×
ISTONCI	TREE (SHRUB)	¢	
NID/LEW		۳.	
CLIENTS	TREE (STUMP)	5MM	
ENTRALV	TREE (CONIFEROUS)	Z <sub>WS</sub> S	
Date Created:5/55/2021 VUID.COM/CENTPAL/CLIENTS/IDLEWISTONCITYPROJECTS/21:20-007 WELLNO7DESIGN/330-WELLCOMPLETION/CAD/SHEET291:20-007	TREE (DECIDUOUS)	$\left( \cdot \right)$	
21 NUE	TEST HOLE		
1:5/25/202	WELL	Ŵ	Ŵ
e Createo	WELL (MONITORING)		w/ M
Dath	MELL (MONITORING)	Μ	LWL

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
UTILITIES		-
MANHOLE (GENERIC)	0	•
PRESSURE CLEAN OUT AT GRADE	(209	PCG
THRUST BLOCK		
VAULT	V	
COMMUNICATION		
TELE. MANHOLE	T	
TELE. PEDASTAL	T .	
TELE. POLE	φ	-
TV PEDASTAL		
GUY WIRE	Ŭ	, v
DOMESTIC WATER		
FIRE HYDRANT	8	V
SPIGOT	•	•
YARD HYDRANT	Ŷ	•
WATER MANHOLE	W	•
WATER METER	⊞	8
WATER VALVE	₩	¥
ELECTRIC		1
ELEC. MANHOLE	Ē	
ELEC. METER	Ē	Ē
ELEC. TRANS.	E	Ē
JUNCTION BOX	J	J
POWER POLE	-	-=-
POWER STUB	E	Ē
STREET LIGHT	*	*
TRAFFIC SIGNAL POLE		
IRRIGATION		
IRRIGATION VALVE	RR	RB
IRRIGATION VALVE BOX		
SPRINKLER		Δ
GAS METER	G	G
	Sa ∎	G
GAS VALVE SANITARY SEWER		M
CLEANOUT	0	
SEWER STUB	S	S
SS MANHOLE	S	
STORM DRAIN		
CATCH BASIN		
DRY WELL	(DW)	600
FLARE END		
GREASE TRAP		
SD MANHOLE	D	

SYMBOL	EXISTING	PROPOSED
DESCRIPTION	SYMBOL	SYMBOL
FITTINGS		
BEND (11.25°)		I
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BALL VALVE (N.O.)	ठि	ਹਿ
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CHECK VALVE		И
CHECK VALVE (FLANGE)	N	N
CHECK VALVE (MJ)	N	
GATE VALVE	$\bowtie$	$\bowtie$
PLUG VALVE (N.C.)	$\bowtie$	M
PLUG VALVE (N.O.)		×

# ABBREVIATIONS

ASSY	ASSEMBLY
>	ANGLE
 @	AT (MEASUREMENTS)
BLDG	BUILDING
BM	BENCH MARK
BSC	BITUMINOUS SURFACE COURSE
BSW	BACK OF SIDEWALK
BW	BOTH WAYS
C C	CHANNEL (STRUCTURAL)
C/L	CENTER LINE
,	CORRUGATED METAL PIPE
CMP	CLEANOUT
00	CONCRETE
CONC	CONTINUOUS
CONT	COUPLING
CPLG	CUBIC FEET
CU FT	CUBIC YARD
CU YD	DEGREE
DEG OR ·	DEGREE
DET	DETAIL
DIA OR Ø	
DIP	DUCTILE IRON PIPE DISTRIBUTION
DIST	
DWG	DRAWING
EA	EACH
ELB	ELBOW
ELEV	ELEVATION
EW	EACH WAY
EXIST	EXISTING
FG	FINISH GRADE
FH	FIRE HYDRANT
FLG	FLANGE
FT OR '	FEET
GV	GATE VALVE
HORIZ	HORIZONTAL
ID	INSIDE DIAMETER
IN OR "	INCH
lb or #	POUNE
LF	LINEAL FEET
LN	LINEAL
MAX	MAXIMUN
MIN	MINIMUN
NO OR #	NUMBEF
PE	POLYETHYLENE
PL	PLATE
PL	PROPERTY LINE
PVC	POLYVINYL-CHLORIDE
R	RADIUS
RP	RADIUS POINT
R&R	REMOVE & REPLACE
REM	REMOVE
REQ'D	REQUIRED
REV	REVISION
R/W	RIGHT-OF-WAY
S	SLOPE
SPEC	SPECIFICATION

(H	JB)
J-U-B ENGINEERS, INC.	Phone: 208.746.9010 Phone: 208.746.9010 www.jub.com
REUSE OF DRAWINGS OTHER RESERVED ROHAU WAS STATUTORY. COPYRIGHT AND OTHER RESERVED ROHAD FOF THESE DRAWINGS, AND THE SAME SHALL NOT BE REUSED WITHOUL OR THE SAME ARY REUSE WITHOUT WARTTEN CONSENT BY JUB WILL BE AT CLIENTS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSIVE TO JU-B.	DESCRIPTION DESCRIPTION BY APR. DATE
WELL NO. 7 WELL COMPLETION	ABBREVIATIONS AND SYMBOLS
JUB PROJ. # : 21-2 DRAWN BY: ARB DESIGN BY: BK CHECKED BY: DI I ONE	W INCH E, IF NOT ONE ACCORDINGLY V27/2021 IBER:

STD	STANDARD
STL	STEEL
ST STL	STAINLESS STEEL
TBC	TOP BACK OF CURB
TYP	TYPICAL
TFC	TOP FACE OF CONCRETE
W/	WITH
W/0	WITHOUT
W/REQ'D	WHERE REQUIRED

	I3. ADD NOTE: "MAIN switch. Sign shal Where an emer directly adjacent
( <b>FIRE</b> /	GENERAL FIRE PROTE
COMMERCIAL PLAN REVIEW COMMENTS	I4. ADD NOTE: No or other Fire Prot subsequent permit <u>approved by the</u> <u>Department</u> . Co
PROJECT ADDRESS: 2817 NEZ PERCE GRADE, LEWISTON, ID 83501 DATE: JULY 8, 2021	will be red tagged. I 5. <b>ADD NOTE:</b> All Duct Systems requ
THE FOLLOWING ITEMS SHALL BE INCLUDED ON ALL PLANS SUBMITTED. <u>THE</u> NFORMATION PROVIDED BELOW MUST BE ADDED VERBATIM TO PLANS. APPLICABLI MPTY FIELDS SHALL BE EITHER CHECKED OR FILLED IN WITH THE REQUESTED NFORMATION. PROVISION OF THIS INFORMATION ON DOCUMENTS SEPARATE FROM	shown or noted o permit or any asso above named syste
THE PLANS IS NOT ACCEPTABLE. All plans shall conform to the IBC, IFC and the <u>most current NFPA standards</u> . (City of Lewiston Code Section 15-1 & 15-1.1) CODE ANALYSIS	<ul> <li>I6. ADD NOTE:</li> <li>Underground</li> <li>-Fire Sprinkler</li> <li>-Fire Alarm Sy</li> <li>-Commercial H</li> </ul>
Provide a full code analysis for this project; plan check cannot be performed without one. This plan has been reviewed as the following occupancy type:	UNDERGROUND FIRE
A-1       A-2       A-3       A-4       A-5       B       E         F-1       F-2       H-1       H-2       H-3       H-4       H-5         I-1       I-2       I-3 Condition: I 2 3 4 5       I-4       M       R-1         R-2       R-3       R-4       S-1       S-2       V	I7. ADD NOTE: Une The plans shall be be kept on site for
Actual use(s) (i.e. office, storage, restaurant, etc.) - PUMP EQUIPMENT AND ELECTRICAL BUILDING Total Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Total Fire Area: 950 SF square feet. (Includes basement / useable attic space/ horizontal projections). (IFC Table B105.1) Type of Construction: VB Fire Sprinklers Required: -Yes -No -Proposed Automatic Fire Alarm System: -Yes -No -Proposed Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Type of Construction: VB Fire Sprinklers Required: -Yes -No -Proposed Automatic Fire Alarm System: -Yes -No -Proposed Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC) Building Occupant Load (all areas combined per Chapter 10 of the IBC and IFC	<ul> <li>I8. ADD NOTE: All</li> <li>* New hydrant wi</li> <li>* 6" minimum sup</li> <li>* If combustible be be designed, inst materials.</li> <li>* Water supply sy</li> <li>* All fire hydrants cap and aircraft</li> </ul>
<b>TRE FLOW REQUIREMENTS</b> - (NOTE: This information is required only for new structures, additions to existing tructures and changes to the occupancy classification of an existing building.): The minimum required fire flow is gpm @ 20 psi for a duration of hours. (IFC Table B105.1)	* The following e and aircraft cabl * All new and ex
Records indicate that the existing water system is capable of providing <u>1500</u> gpm @ 20. This estimate is based upon actual flow tests conducted at hydrant #on 75% reduction allowed due to addition of an approved fire sprinkler system. (IFC Appendix B)	department vehi I9. Indicate with a nor in conjunction wit
<ul> <li>25% reduction allowed due to addition of an approved monitored automatic fire alarm system. (City of Lewiston Ordinal The adjusted fire flow (based on the reductions above) is</li></ul>	E 20. ADD NOTE: Size
hydrants are required, based on square footage, type of construction and req. water flow. (IFC Table B105.1) Maximum distance from any point on street frontage to hydrant: [250 FT] (IFC Table C105.1) feet and provide 400 f	
reach. Fire flow of 3,000 gpm or greater. (Requires Fire Sprinklers per NFPA 13 (Lewiston City Code Section 15-1.1 (IFC Amendments).	<ul> <li>Fire flow in ex</li> <li>International</li> <li>Basement over</li> </ul>
IRE DEPARMENT ACCESS	
<ul> <li>I. ADD NOTE: Approved numbers and/or letters shall be placed on all buildings to be visible from the street, color contrasting to background. Address posting is required on building, Fire Department access and on all rear doo (IFC 505)         <ul> <li>" • "Project requires an illuminated directory at main entrance."</li> <li>- "Individual room/suite numerals to be minimum 4 inches high X <sup>1</sup>/<sub>2</sub>" stroke."</li> <li>× "6 inches high X <sup>3</sup>/<sub>4</sub>" stroke"</li> </ul> </li> </ul>	23. <b>ADD NOTE:</b> Fire 13, 13R or 13D to installation.
contrasting to background. Address posting is required on building, Fire Department access and on all rear doo (IFC 505) - "Project requires an illuminated directory at main entrance."	6.6.4.1. s. 23. <b>ADD NOTE:</b> Fire 13, 13R or 13D to installation. 105.5 and Lewi a. FDC/PIV
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<ul> <li>contrasting to background. Address posting is required on building. Fire Department access and on all rear doo (IFC S05)</li></ul>	6.6.4.1.         s.         23. ADD NOTE: Fire I3, I3R or I3E to installation.; I05.5 and Lewi a. FDC/PIV Fire Dep. b. Plans shal c. Contractor final inspi- e         1%         c. Contractor final inspi- e         d. Test requ- of         agg         24. A listed check val device.         hall         25. ADD NOTE: Fire application proce         26. ADD NOTE: All ment t the g         27. Indicate dumpster         Key         28. ADD NOTE: Lar structures or in a automatic fire spi stored in the buil 304.3.3)         ing         FIRE ALARM SYSTEMS         a). ADD NOTE: Fire a. Central Statio b. Interconnectio condition at td appliances sha NFPA 72 Sect
<ul> <li>contrasting to background. Address posting is required on building. Fire Department access and on all rear doo (IFC S05)         <ul> <li>"Project requires an illuminated directory at main entrance."</li> <li>"Individual room/suite numerals to be minimum 4 inches high X //" stroke."</li> <li>"S inches high X 1 //" stroke when 36-50 feet from access"</li> <li>"9 inches high X 1 //" stroke when 36-50 feet from access."</li> </ul> </li> <li>"12 inches high X 1 //" stroke when 36-50 feet from access."</li> <li>ADD NOTE: All required access roadways shall be completed to a minimum width of 20 feet, shall not exceed in grade, be capable of supporting 78,000 lbs, wich an all-weather surface and extended into within 150 feet of a stockpiles and all sides of building prior to Fire Department approval of a building premit. Access roadways to b posted "NO STOPPING/FIRE LANE" (see <i>IFC D103.6 for sign specifications</i>) and shall not be used for the storage materials. (IFC 501.4, 503.4) NA TO THIS PROJECT</li> <li>ADD NOTE: "IRE LANE" signs are required to be installed along interior access roadways where vehicle parkit would encroach on the required 20 foot clear width of roadway (see <i>IFC D103.6 for sign specifications</i>). (IFC 503.2.1)</li> <li>ADD NOTE: "If security gates are desired at any entrances to the site, they shall be provided with a Fire Department froir on the building permits being issued." (IFC 503.6)</li> <li>ADD NOTE: This project requires generate daproved by the Fire Prevention Bureau. Begin application processis with the Fire Department approval (key box shall be mounted five feet above the ground (floor) level, readity visible and not more than 5 feet from the main entry to the premises, Additional key boxes shall be provided adjacent to exterior riser room entry doors where said doors are more 50 feet from the main entrance adjor the riser room is nor located on the same side of the structure as the m front ent</li></ul>	6.6.4.1.         s.       23. ADD NOTE: Fire I3, I3R or I3E to installation. I05.5 and Lewi a. FDC/PIV Fire Dep. b. Plans shal c. Contracte final inspi- e         1%       c. Alisted check val device.         agg       24. A listed check val device.         hall       25. ADD NOTE: Fire application proce         18       26. ADD NOTE: All minimum of 40' shall be provide: g         20. ADD NOTE: All minimum of 40'         10       27. Indicate dumpster         10       28. ADD NOTE: Lar structures or in a automatic fire spi stored in the buil 304.3.3)         10       29. ADD NOTE: Fire a. Central Statio         10       29. ADD NOTE: The a. Central Statio         10       30. ADD NOTE: The a. Central Statio         10       10         10       10         10       10

N DISCONNECT" sign shall be provided directly adjacent to the buildings main electrical shut-off Il be constructed of durable material, red in color with white lettering no less than <sup>3</sup>/<sub>4</sub> inch tall. rgency generator is present, a sign stating "GENERATOR EMERGENCY STOP" shall be provided t said device. Stickers and other paper signs are not acceptable. (IFC 509.1)

ECTION SYSTEM REQUIREMENTS

ptice to Contractors –Installation of Fire Services Mains, Fire Sprinkler Systems, Fire Alarm Systems tection Systems **is not allowed prior** to plan approval by the Lewiston Fire Department and t issuance from the City of Lewiston Building Department. <u>Fire Sprinkler Systems must be</u> e Idaho State Fire Marshal's Office prior to being submitted to the Lewiston Fire ontractors who engage in installation prior to appropriate approvals may be cited and the project . (IFC 111, 105.4, 105.7, 901.2)

I Underground Fire Service, Fire Sprinkler Systems, Fire Alarm Systems and Commercial Hood and uire separate plans, application, review, permit and fee. Any of the above named systems included on the building plans are to be used for bid purposes only. Fire Department approval of the building ociated electrical, plumbing, and/or mechanical permit does not constitute approval of any of the ems. (IFC 111, 105.4, 105.7, 901.2)

To be sent electronically to: Fire Service Plans CD@CityofLewiston.org System Plans stem Plans

Hood & Duct System Plans

## SERVICE \_\_\_\_\_\_N/A TO THIS PROJECT

derground fire service mains and all components shall conform to NFPA 24 minimum standard. reviewed and approved by the Fire Department <u>prior</u> to installation. Stamped approved plans must r the Fire Inspector." IFC 507.2.1

new fire hydrants shall meet the following requirements:

ill be Waterous Pacer or Meuller Centurian with Storz adapter(s). pply for fire hydrant.

building materials are used (including framing) the water supply (including mains and hydrants) shall stalled, tested and approved by the Fire Department prior to stockpiling combustible building

systems for phased construction shall provide required fire flows at all phases." s shall be provided with a 5-inch Harrington HIHS Storz adaptor with the approved attached seal cable.

existing hydrants shall be provided with 5-inch Storz adapters with the approved attached seal cap

xisting hydrants shall be installed and/or modified so the 5- inch port is facing toward the fire nicular access route (i.e.: road, street, lane, etc.).

te whether the fire sprinkler system supply will be a dedicated water supply or will be th domestic water (NFPA 13R and 13D systems only)

e and type of fire service mains shall be approved by the Fire Department prior to installation.

# EMS N/A TO THIS PROJECT

fully automatic fire sprinkler system is required/ provided due to: ccess of 3,000 gpm: Lewiston Muni Code □ -limited access on sides of building: (IFC 901.4.4) Fire Code Req. Sec: -minimum fire flow is not available: (IFC B105) er 1,500 sq ft (IFC 903.2.11)

ing shall be provided in accordance with NFPA 13 Section 7.1.5 and shall be labeled per Section

e Sprinkler Systems and alterations of an existing system and all components shall conform to NFPA O (whichever is applicable) minimum standard and shall be reviewed by the Fire Department prior Stamped, approved plans and permit must be kept on site for Fire Inspector. (IFC 105.3, 105.4, iston City Code)

locations shall be approved by the Fire Department. It is recommended that designers contact the partment prior to design to verify approved locations.

Il be submitted electronically to the Permit Center with all details per NFPA 13, 13R or 13D. or is required to submit a set of "as-built" documents/drawings (electronic) for approval prior to ection when not installed per plan. uired:

ew System, 200 psi for 2 hours dition/Alteration, 150 psi for 2 hours

Ive shall be provided in each riser not utilizing an alarm check valve and/or backflow detection

e Department Connection (FDC) threads shall be protected with approved Knox FDC plugs. Begin ess at <u>www.knoxbox.com</u> prior to permit issuance. (IFC 912.3.1)

control valves shall be listed indicating or listed non-indicating type (NFPA 13). PIV to be located a from building (NFPA 24). Approved supervised indicating control valves, flow switch and drain for d for each floor in multi-story buildings; either in the riser room or in an interior stairwell. Code Section 15-1.1 (IFC Amendments).

location on site plan.

rge trash receptacles, commonly known as dumpsters that are place adjacent to areas where heavy accumulation of combustibles are expected, shall be protected with at least one prinkler head. If the building is not equipped with a fire sprinkler system, the dumpster shall not be ilding or placed within 5 feet of combustible walls, openings or combustible roof eave lines. (IFC

# N/A TO THIS PROJECT

Alarm System is required/ provided due to:

e sprinkler heads per IFC 903.4

tion of required fire flow (Lewiston Section 15-1.1 (IFC Amendments).

e following is required for all Fire Alarm Systems:

on monitoring of fire control unit (alarm panel). (IFC 907.6)

on of the duct detectors to the fire alarm system. Duct smoke detectors shall initiate a supervisory he fire alarm panel and shall be provided with remote annunciator/test switches. Locations of said all be indicated on the plans and approved by the Fire Department before installation. (IMC 606.2.2, tion 5.14.5.8 and/or IFC 907.3.1)

🗌 - Other

IFC section

tification. Activation of any fire suppression or alarm appliance shall activate the premises occupant ystem. (IFC 907.1, 907.5 and NFPA 72) **NOTE:** Where the occupancy is classified as an "R" or an e occupants may be sleeping, audible notification shall be provided to the sleeping area in <u>ith NFPA 72.</u>

r more visible appliances are present, synchronization of the visible signal is required.

l visibility of notification appliances will be field verified at time of acceptance testing to ensure they er section above.

nd operating instructions shall be provided for all systems at the fire alarm panel and annunciator

g. As-built drawings shall be provided to the Fire Department prior to final accept as-built drawings shall be provided in an approved location within the protecte

- 31. Indicate location of the fire alarm control panel and remote annunciator(s) on the a Annunciators shall be provided within 10 feet of the main front entrance, at the fire Fire Department keybox location and where necessary for fire-fighting or life safety Fire Department. The fire alarm control panel may be utilized in one of the location installation of a remote annunciator. (IFC 907.6.3.1, NFPA 72)
- 32. ADD NOTE: "Fire Alarm System and all components shall conform to NFPA 72 reviewed and approved by the Fire Department prior to installation. Stamped, a kept on site for the Fire Inspector. All systems shall comply with the most recer (IFC 907, 105.3, 105.4, 105.5 and Lewiston City Code) a. Fire Alarm contractor must obtain a Fire Alarm System Application from Fir
  - b. Completed Fire Alarm System Application must be included with all Fire Ala c. Fire Alarm to be monitored by an approved and UL listed central station.
- 33. ADD NOTE: Detectors shall not be installed until after the construction cleanup (NFPA 72)
- 34. ADD NOTE: Duct Detectors shall be required in the return air supply for all syst International Mechanical Code (IMC).
- 35. ADD NOTE: Install smoke alarms(s) per IBC, IFC and applicable NFPA 72. Detec residential occupancies. (NFPA 72, section 11.5.1.2 (B), IFC 907.2.10.3)

## **OTHER FIRE PROTECTION SYSTEMS**

- 36. Indicate hand portable fire extinguisher rating and location on plan. Fire extinguisher locations, at least one shall be within 5 feet of the main entrance/exit and all extir and unobscured. (IFC 906.3, 906.5 and 906.6) IX - 2A:10BC; one per 3000 square feet or fraction thereof; maximum travel di
  - feet above finished floor. (IFC 906)
  - "K" for Commercial Kitchen (IFC 904.11.5)  $\square$  - 40BC Located for use at flammable liquid storage and/or use locations (incl

🗆 - OTHER- 🛛

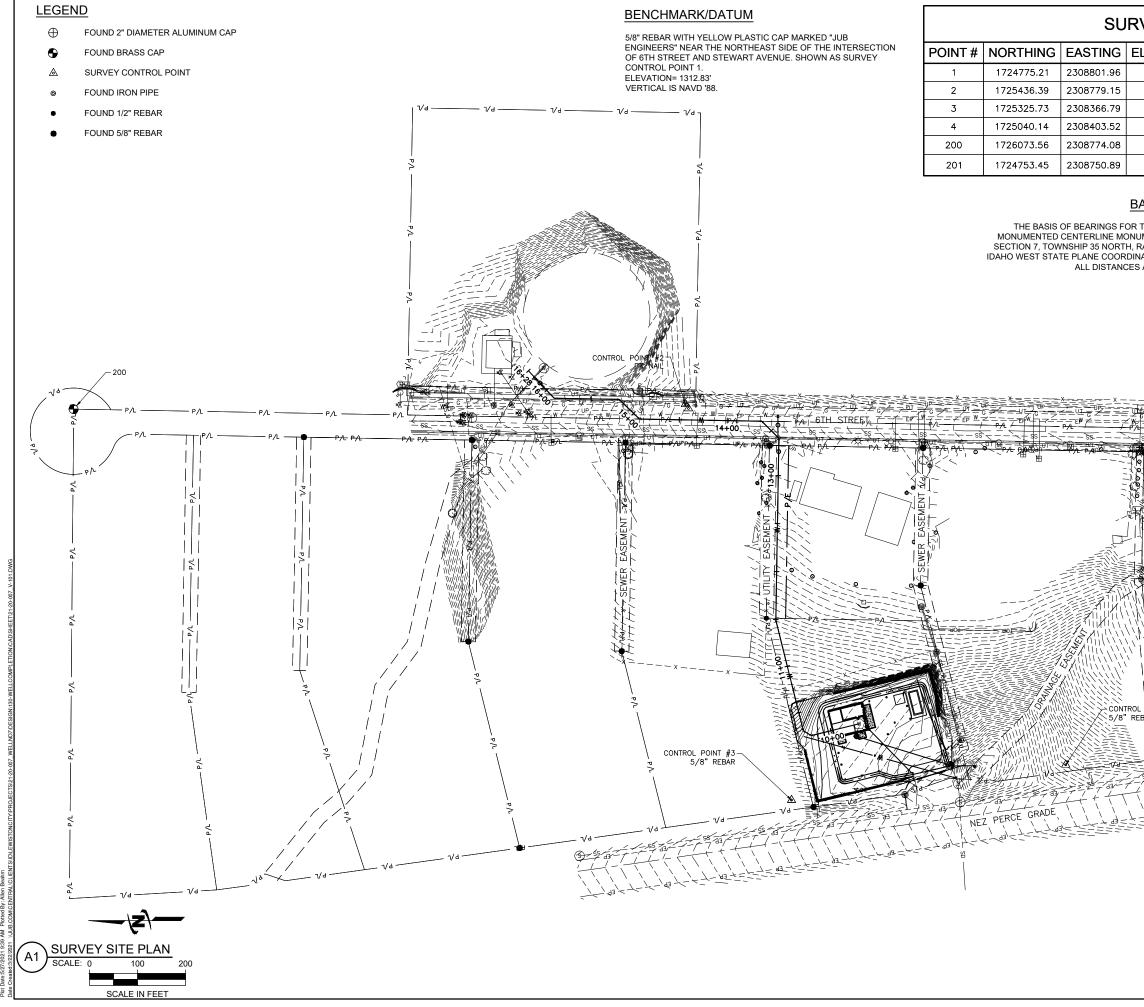
- -N/A TO THIS PROJECT 37. **ADD NOTE:** - Type I Hood Required (IFC 609) An automatic fire extinguishing system is required for the protection of commer
  - hood, duct, plenum and cooking surfaces.
  - a. Hood & Duct requires separate application, plans, specs, approval, fee and pe b. System shall comply with current U.L. 300 standards per manufacturer's insta
  - c. System shall meet all NFPA 17A, IFC, IBC and IMC requirements.
- 38. ADD NOTE: Hood system shall initiate a zone alarm at the fire alarm panel in all alarmed buildings." (NFPA 72, section 5.11, IFC 907.14)

## **OTHER FIRE DEPARTMENT REQUIREMENTS**

- 39. ADD NOTE: Emergency escape and rescue openings shall have a minimum net cl Minimum net clear opening height 24", minimum net clear opening width 20". Bo greater than 44" from the floor. (IFC 1029.2, 1029.2.1, 1029.3)
- 40. Indicate locations of emergency lighting and illuminated exit signage on plans. (IFC I
- 41. Provide details indicating location and dimensions of fixtures and displays. Dimension width of fixtures and displays and their distance from adjacent fixtures and displays
- 42. ADD NOTE: Occupant load sign shall be posted in every room/space that is an as be posted in a conspicuous place, near the main exit from the room or space. Ap available from the Lewiston Fire Department Fire Prevention Division. (IFC 1003 —N/A TO THIS PROJECT
- 43. ADD NOTE: Attic, under-floor, concealed spaces and basements used for storage protected on the storage side as required for 1-hour fire-resistance-rated constr protected by assemblies that are self-closing and are of noncombustible construct than 1.75 inches in thickness. (IFC 315.2.4, City Code 15-1.1(j))
- 44. Provide a Hazardous Materials Management Plan (HMMP) per IFC 5001.5.1, and Ha Statement (HMIS) per IFC 5001.5.2.Examples of qualified preparer may be a Fire Engineer of related field, Chemist, Firm or Corporation approved by the Fire Ma -PROVIDED BY CITY
- ADD NOTE: "All site inspections require a minimum 24 hours' notice. ALL FIRE DE INSPECTIONS ARE TO BE REQUESTED THROUGH THE FIRE DEPARTMENT SPECIFIC AS TO TYPE OF INSPECTION REQUESTED."
- \* **ADD NOTE**: "Project shall comply with the provisions of IFC 105.3.6 Compliance with
- NOTE TO APPLICANT: THE FIRE DEPARTMENT CANNOT APPRO BUILDING PERMIT UNTIL THE APPLICABLE ITEMS ABOVE ARE FOLLOWING ITEMS ARE COMPLETED:
- IXI ACCESS ROADS (approved plans, installation of road and required signage and letter of completion from licensed e
- **K** FIRE HYDRANTS (approved location(s) on plans, installation, testing and placed into service)
- KNOX FIRE DEPT. EQUIPMENT (completed application and payment to Knox Corporation)
- □-KEY BOX; □-FDC PLUGS; □-PADLOCK; □-DOCUMENT/ KEY CABIN

If you have ANY questions regarding your preliminary plan review comments PLEASE call us directly for c finalized plans, we want to assist you in meeting Fire Code requirements quickly, so your project can mov would like an electronic version of your comments, please email us at <u>firedept@cityoflewiston.org</u>. Ple project and the reviewers name in your request.

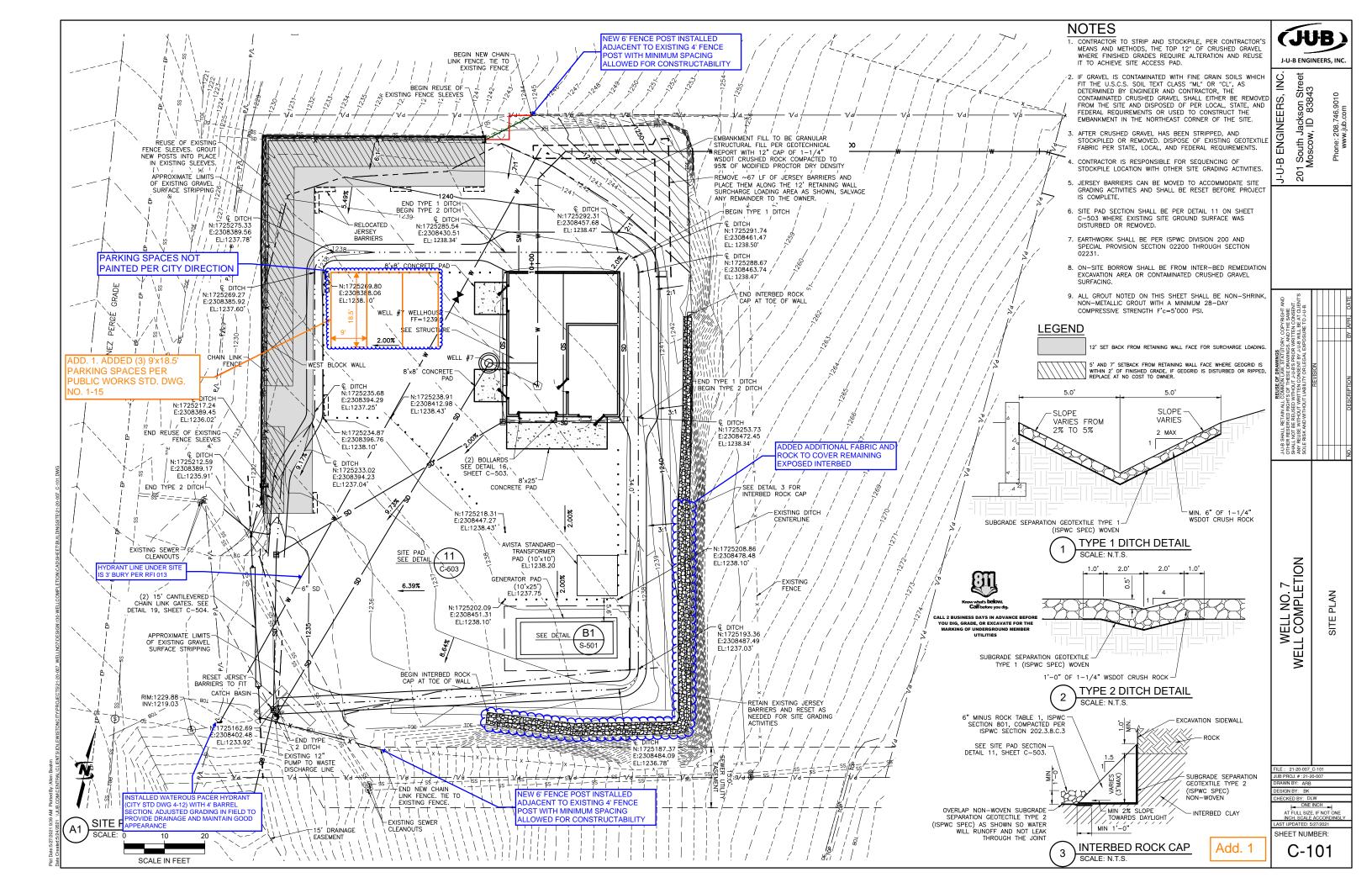
2 minimum standards and shall be	Street 343			
ty purposes as determined by the ions defined above, to substitute the 2 minimum standards and shall be <u>approved plans and permit must be</u> ently published edition of NFPA 72. Fire Dept prior to submittal. darm plan submittals."	treet 3	IEERS		
2 minimum standards and shall be <u>approved plans and permit must be</u> ently published edition of NFPA 72. <u>Fire Dept prior to submittal.</u> <u>alarm plan submittals.</u> up of all trades is complete and final.	Stree 43		5, IN	С.
ire Dept prior to submittal.       II         Jarm plan submittals."       II         up of all trades is complete and final.       III         ystems where required by the       IIII			Phone: 208.746.9010	шо
up of all trades is complete and final.	South Jackson Moscow, ID 838		208.74	v.jub.co
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ercial cooking equipment and all permit. stallation requirements and specs. all sprinklered and/or clear opening of 5.7 square feet. Bottom of clear opening shall not be C 1006, 1011) sions to include height, length and tys. (IFC 314, IFC 10, IFC 23)	RISK AND WITH			
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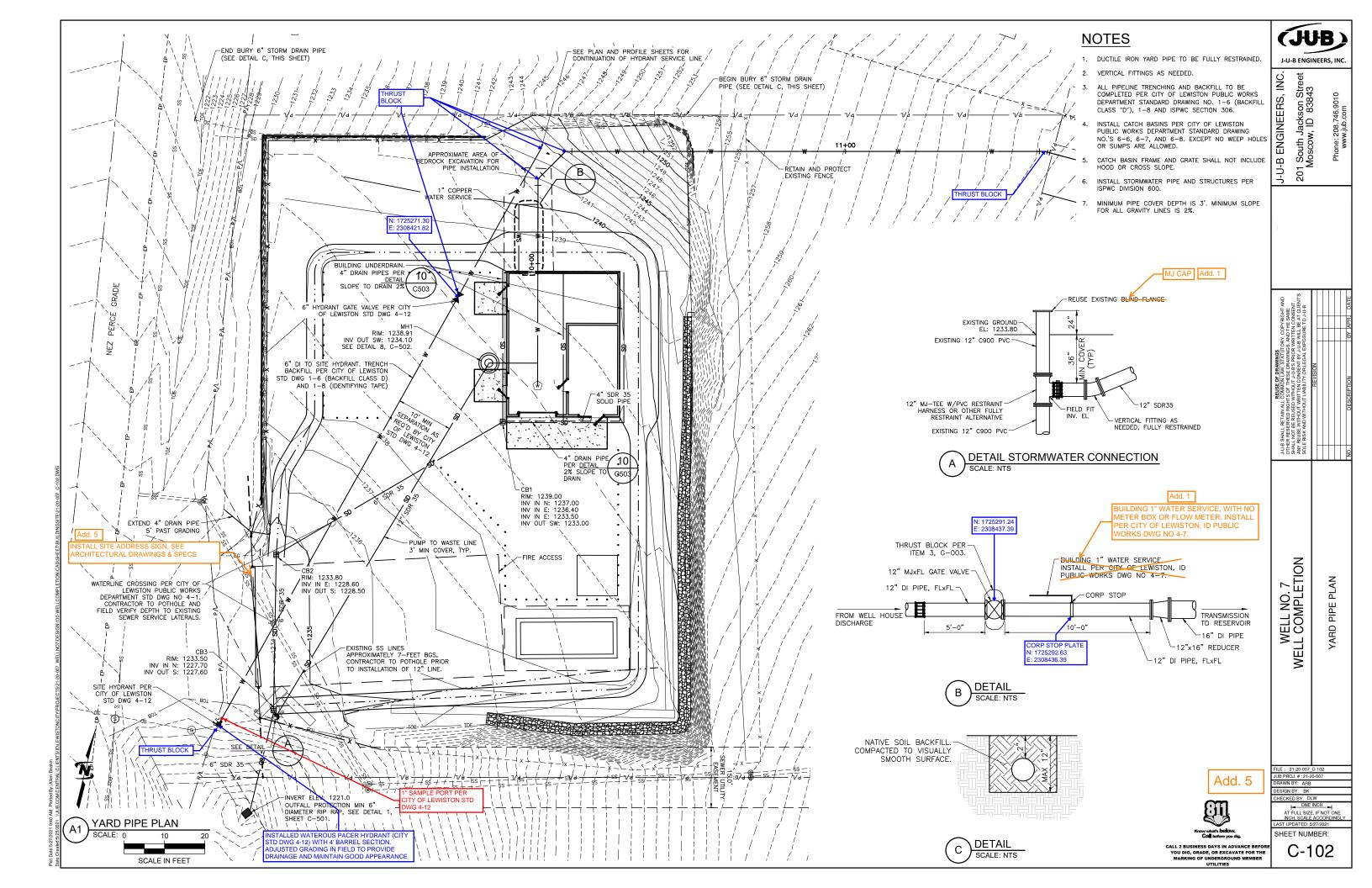


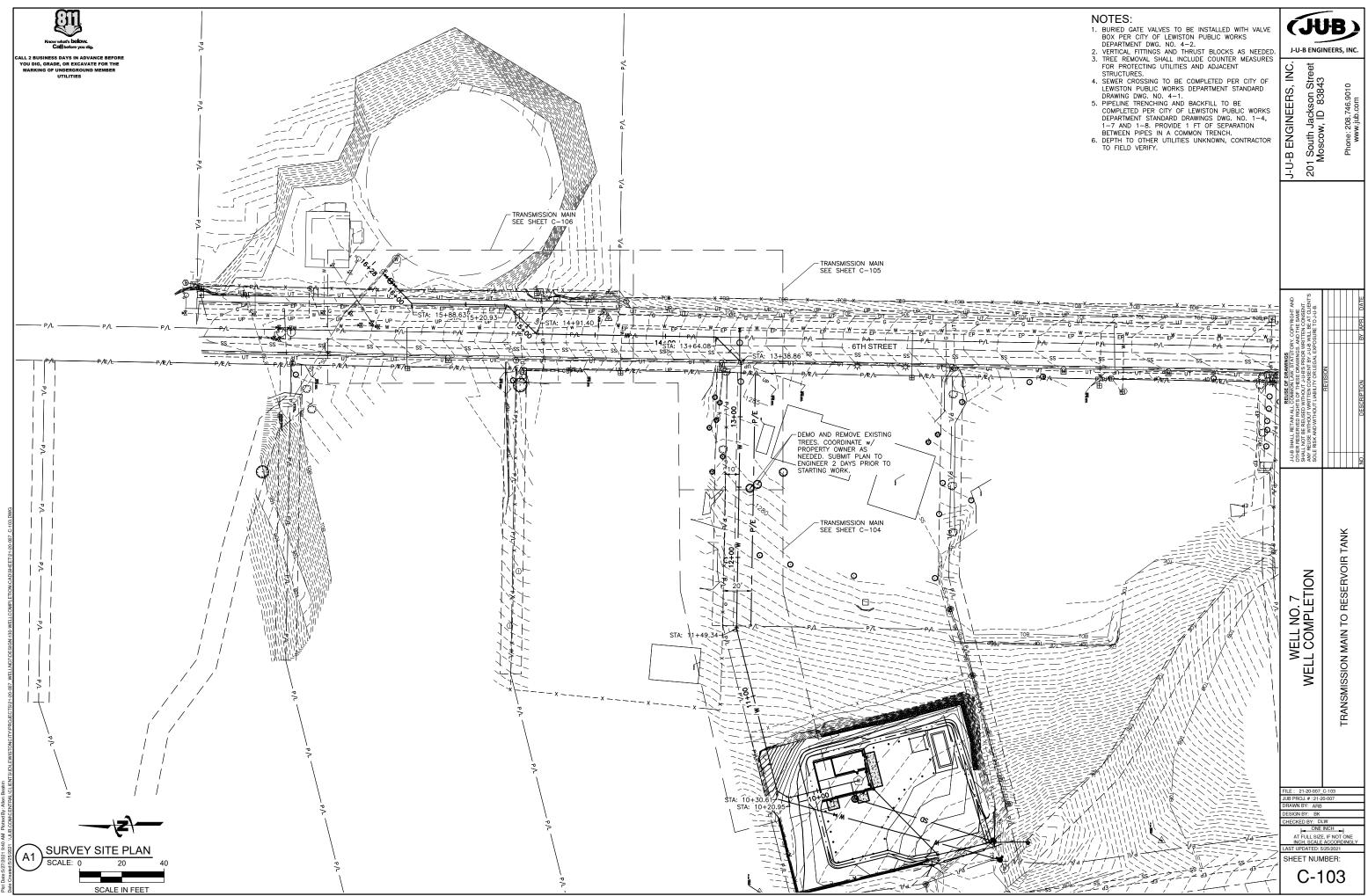
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1310.08	ALC2" RIMROCK LS10162 YR2008 1\4CORNNER	J-U-B ENGINEERS, INC 201 South Jackson Street Moscow, ID 83843	F
IUMENT ALONG 6 <sup>-</sup> RANGE 5 WEST, I NATE SYSTEM, AI	EARING SOUTH 01°00'23" WEST BETWEEN THE TH STREET AND THE EAST 1/4 CORNER OF BOISE MERIDIAN, AS ESTABLISHED BY GPS, LL BEARINGS SHOWN ARE AT GRID AZIMUTH, D TO GROUND VALUES.		
	CONTROL POINT #1 5/8" REBAR 201 201 1 1 1 1 201 1 1 1 1 1 1 1 1 1 1	JU-B SHALL RETAIN ALL COMMON LAW, STATUTORY, COPYRIGHT AND OTHER RESERVED RIGHTS OF THESE DRAMMOS, AND THE SAME SHALL NOT BE REUSED WITHOUT JUES PRORY MATTEN CONSENT. ANY REUSE WITHOUT WATTENC CONSENT BY UJUB WILL BE AT CLENT'S SOLE RISK AND WITHOUT UBLILITY OF LEGAL EXPOSURE TO JUJUB.	NO. DESCRIPTION BY APR. DATE
DL POINT #4 REBAR		WELL NO. 7 WELL COMPLETION	SURVEY CONTROL
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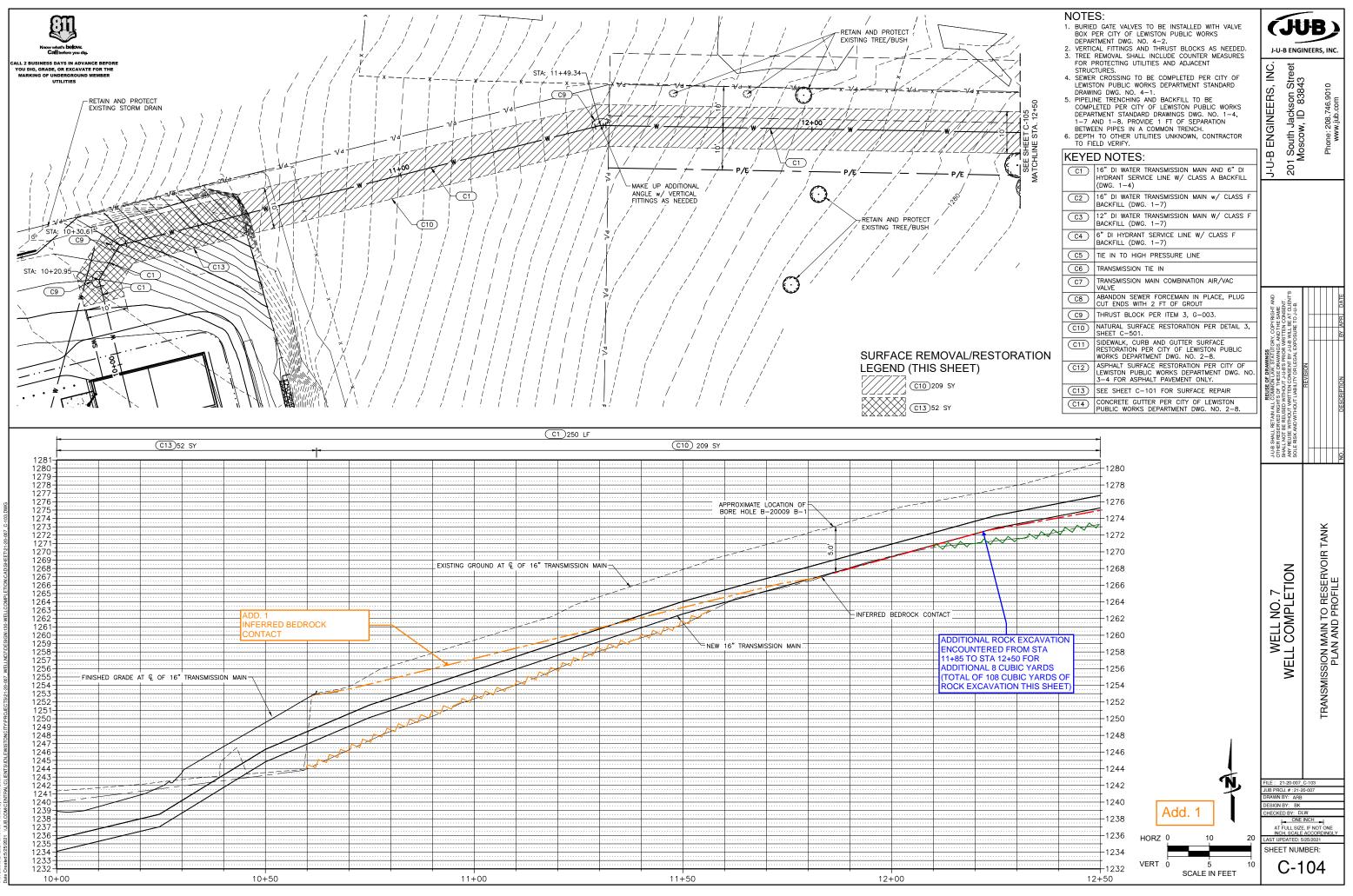
THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE SURVEY RECORDING ACT AT THE REQUEST OF THE CITY OF LEWISTON, APRIL 2020.

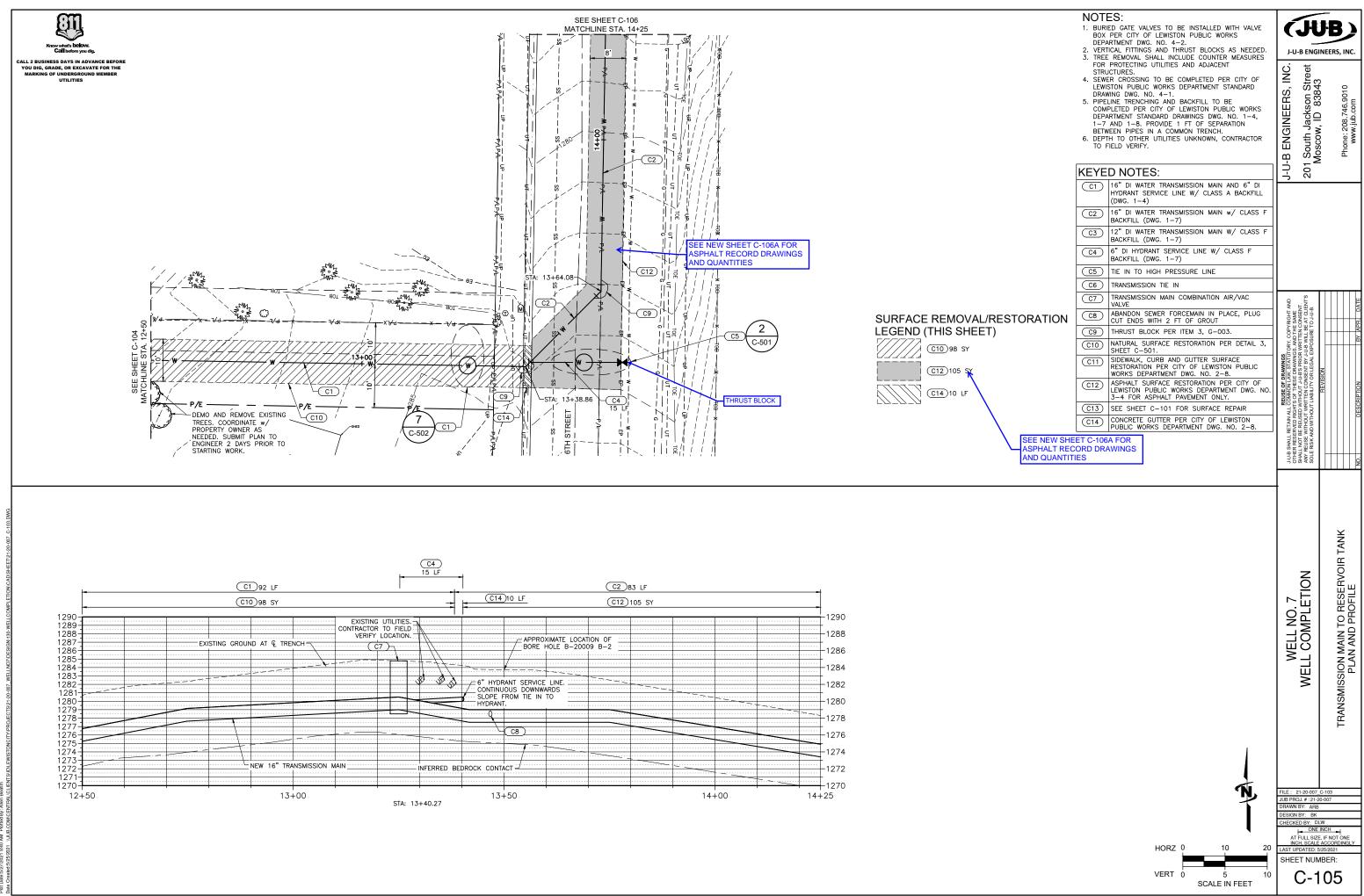
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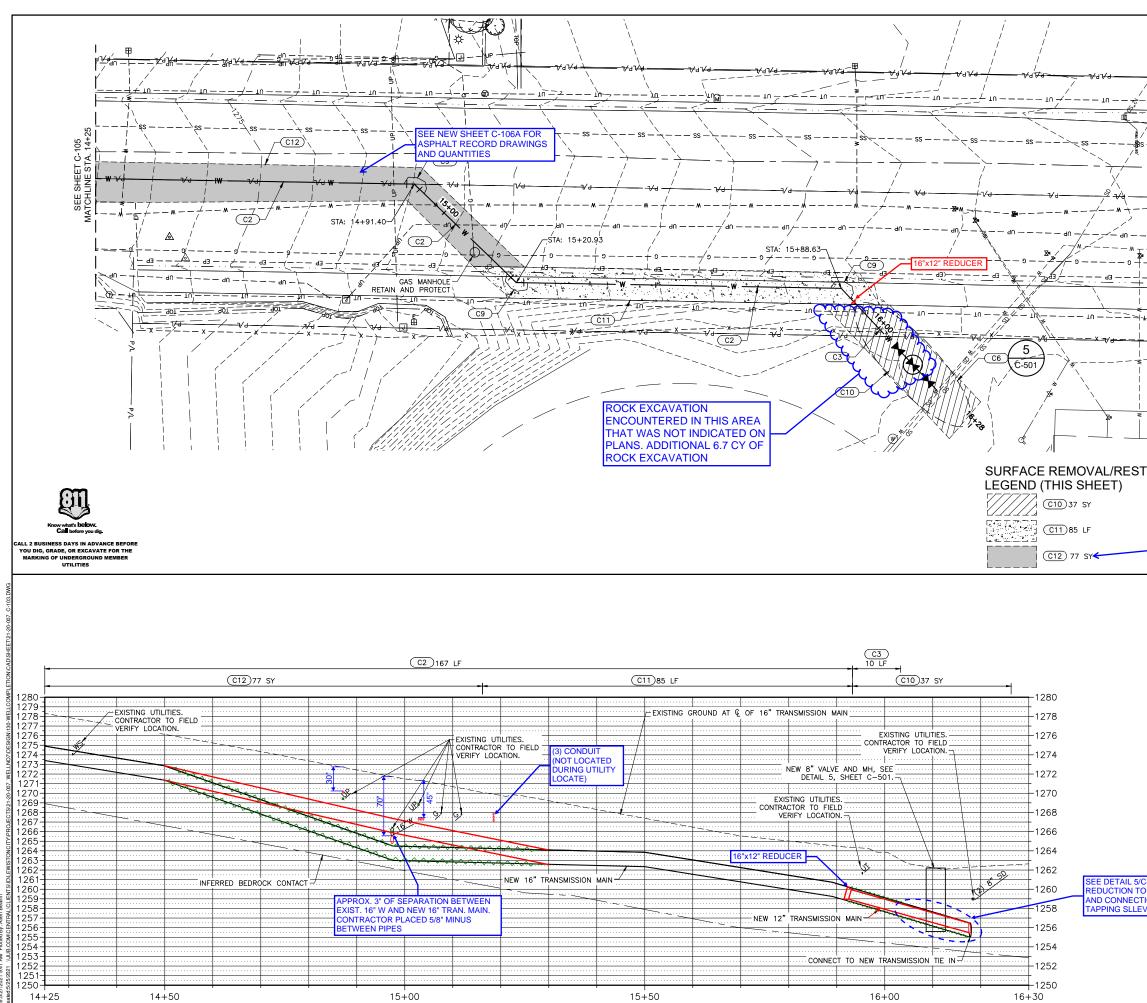




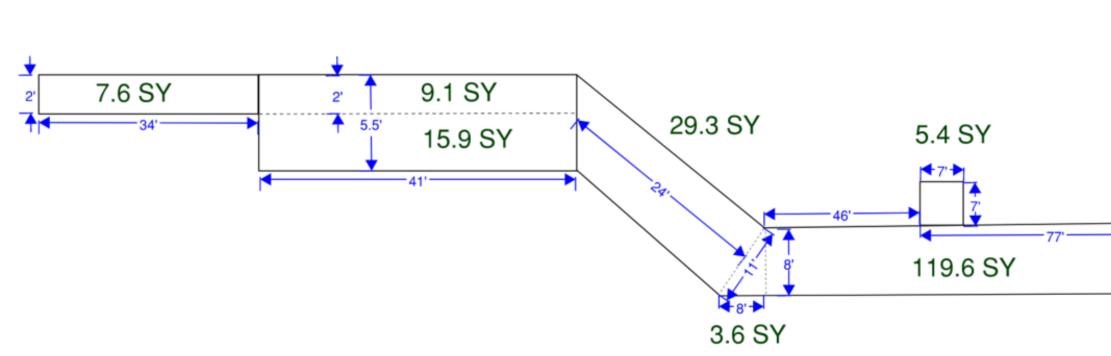




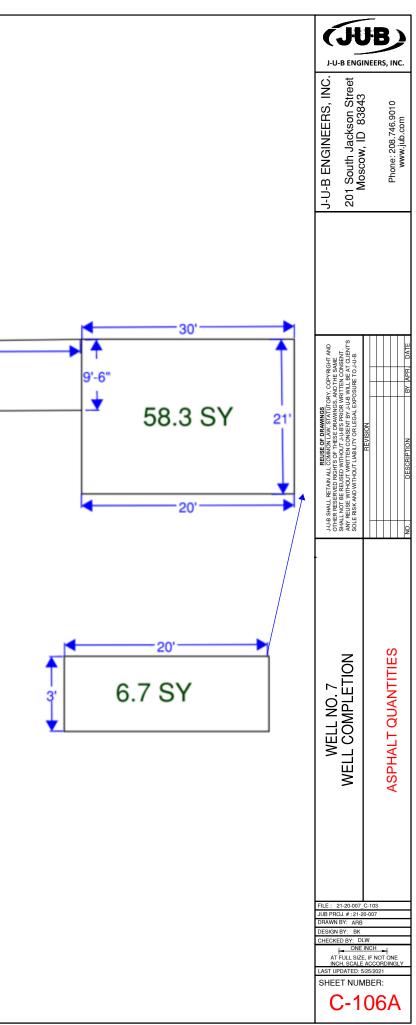


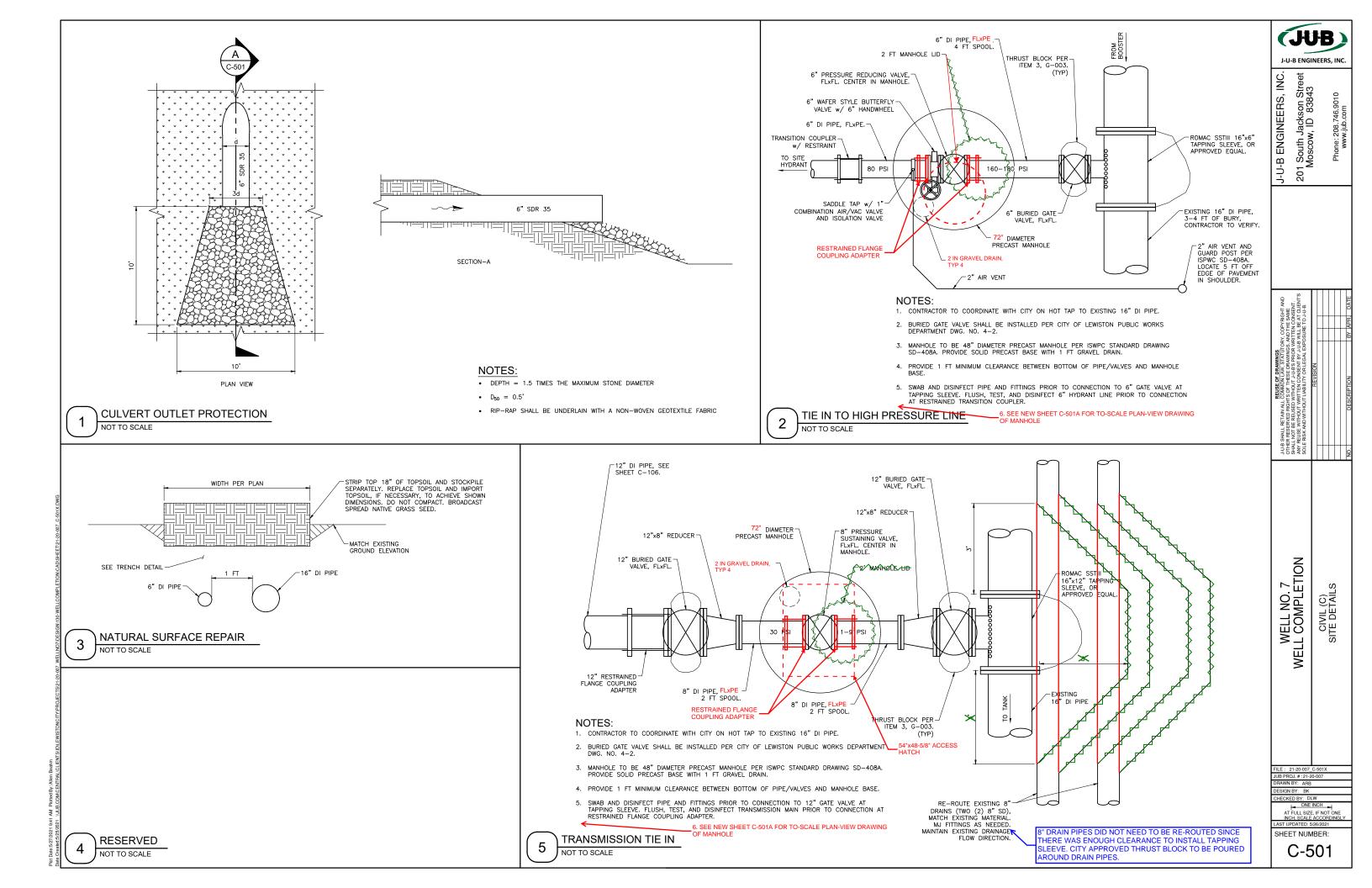


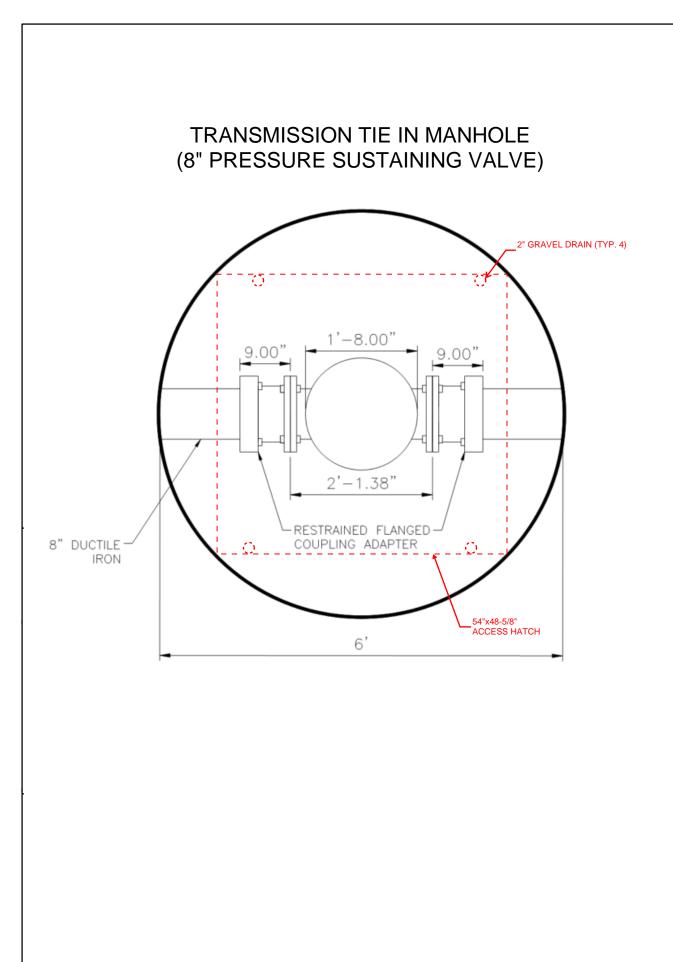
	NOTES: 1. BURIED GATE VALVES TO BE INSTALLED WITH VALVE BOX PER CITY OF LEWISTON PUBLIC WORKS DEPARTMENT DWG. NO. 4-2. 2. VERTICAL FITTINGS AND THRUST BLOCKS AS NEEDED.	J-U-B ENGI	
	<ol> <li>TREE REMOVAL SHALL INCLUDE COUNTER MEASURES FOR PROTECTING UTILITIES AND ADJACENT STRUCTURES.</li> </ol>	• • •	
/ 	<ol> <li>SEWER CROSSING TO BE COMPLETED PER CITY OF LEWISTON PUBLIC WORKS DEPARTMENT STANDARD DRAWING DWG. NO. 4-1.</li> </ol>	ERS, IN son Stre 83843	010
7	<ol> <li>PIPELINE TRENCHING AND BACKFILL TO BE COMPLETED PER CITY OF LEWISTON PUBLIC WORKS DEPARTMENT STANDARD DRAWINGS DWG. NO. 1-4,</li> </ol>	Ksor 83	
85 —	1-7 AND 1-8. PROVIDE 1 FT OF SEPARATION BETWEEN PIPES IN A COMMON TRENCH.	GIN Jac	ne: 208.746.9 www.jub.com
	<ol> <li>DEPTH TO OTHER UTILITIES UNKNOWN, CONTRACTOR TO FIELD VERIFY.</li> </ol>	J-U-B ENGINEERS, INC 201 South Jackson Street Moscow, ID 83843	Phone: 208.746.9010 www.jub.com
	KEYED NOTES:	-U-E 201 ŝ	_
	C1 16" DI WATER TRANSMISSION MAIN AND 6" DI HYDRANT SERVICE LINE W/ CLASS A BACKFILL (DWG. 1-4)	,	
	C2 16" DI WATER TRANSMISSION MAIN w/ CLASS F BACKFILL (DWG. 1–7)		
<b>X</b> ≈ +	C3 12" DI WATER TRANSMISSION MAIN W/ CLASS F BACKFILL (DWG. 1–7)		
<u>↓</u> <u>+</u> 	C4 6" DI HYDRANT SERVICE LINE W/ CLASS F BACKFILL (DWG. 1–7)		
	C5 TIE IN TO HIGH PRESSURE LINE		
ุ่่⊰ <b>-</b> £∩   	C6 TRANSMISSION TIE IN C7 TRANSMISSION MAIN COMBINATION AIR/VAC		
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 	C11 SIDEWALK, CURB AND GUTTER SURFACE RESTORATION PER CITY OF LEWISTON PUBLIC WORKS DEPARTMENT DWG. NO. 2-8.	WINGS STATUT RAWING: S PRIOR S PRIOR LEGAL E)-L	~
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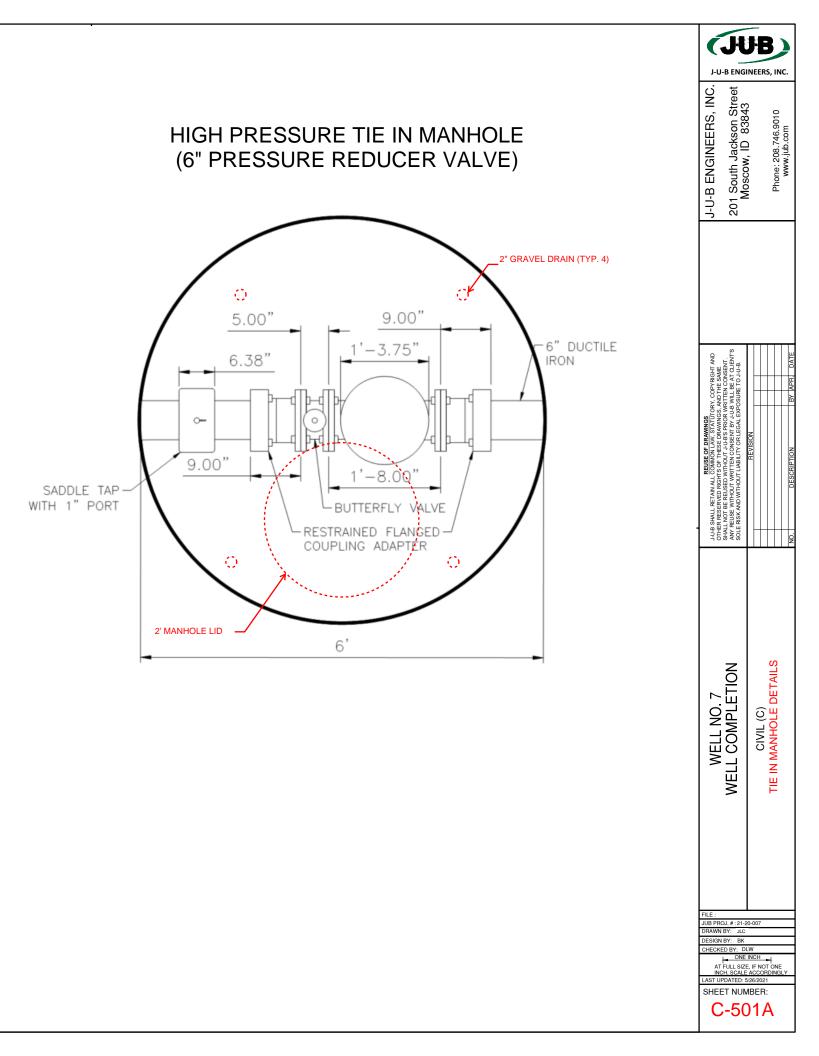


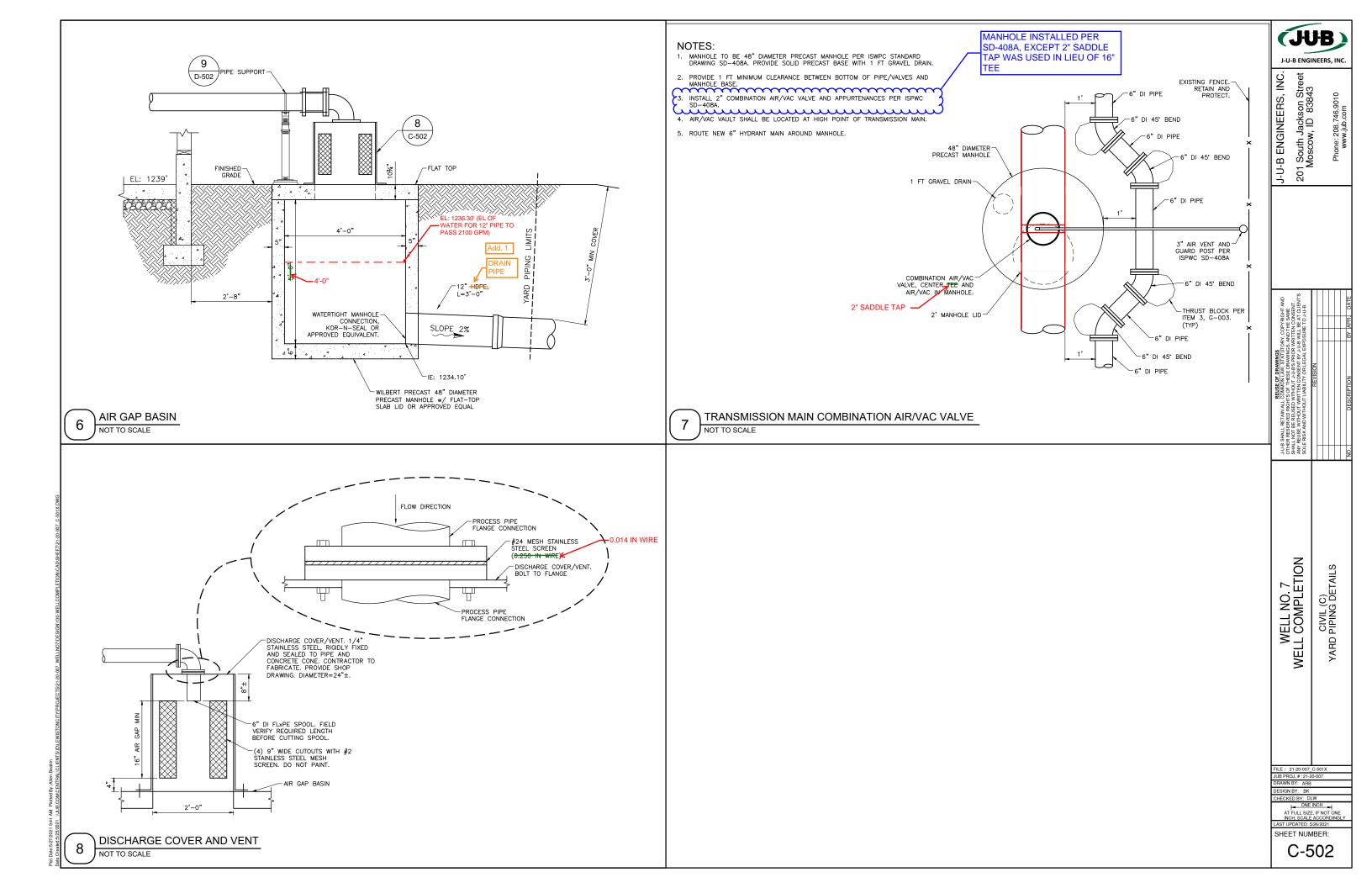
255.5 SY (Total) - 182 SY (Bid Quantity) = 73.5 Quantity Overrun

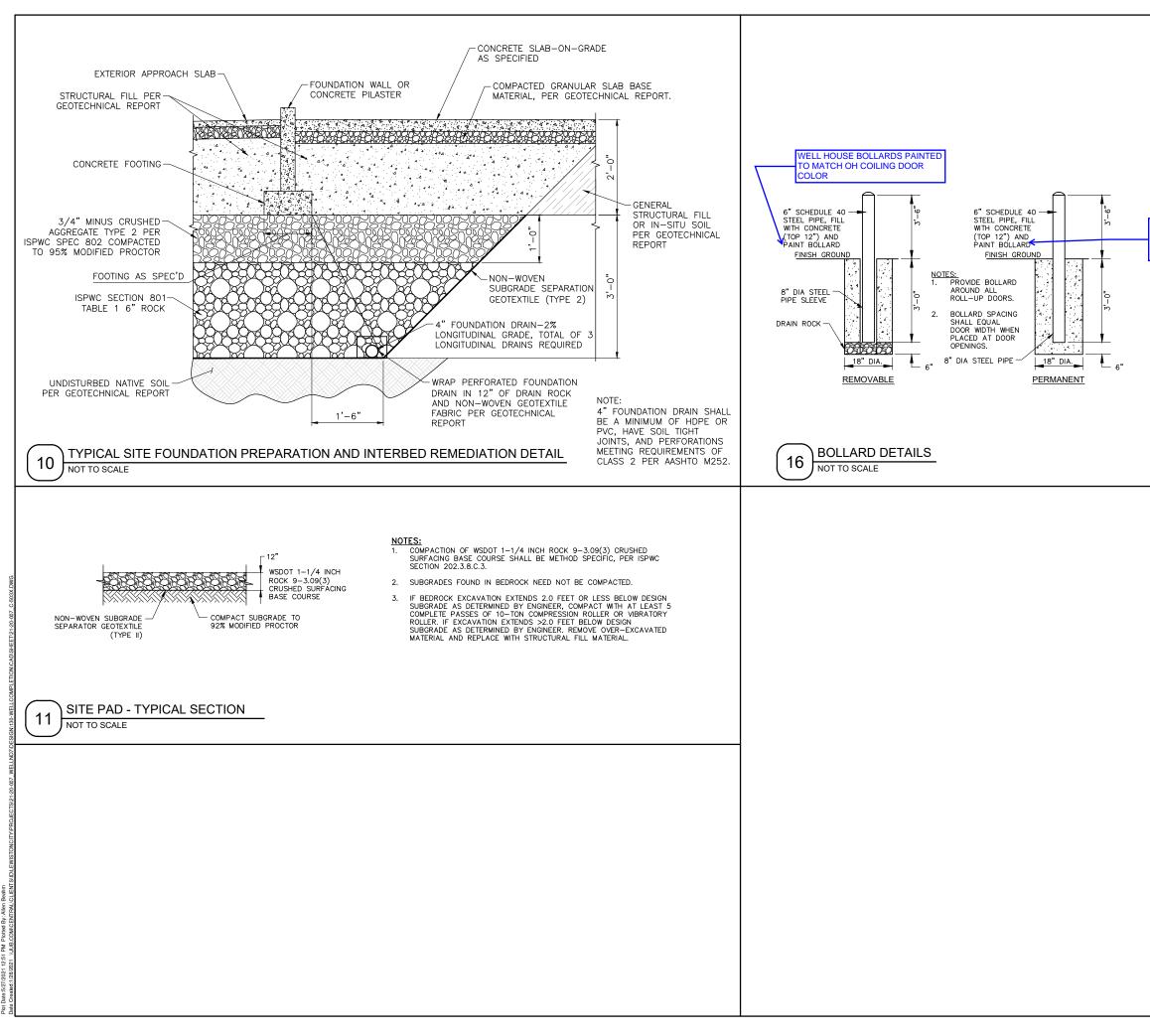








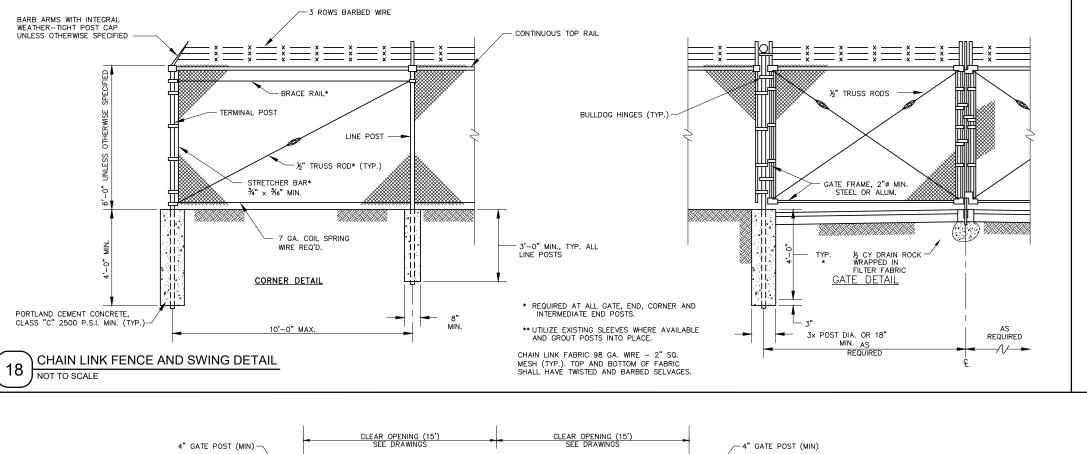


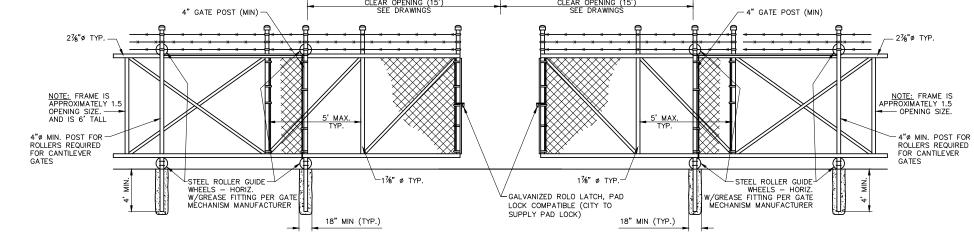


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J-U-B ENGINEERS, INC. 201 South Jackson Street	Moscow, ID 83843	Phone: 208.746.9010 www.jub.com
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REUSE OF DRAWINGS U-JU-B SHALL RETAIN ALL COMMONLAW STATUTORY, COPYRIGHF AND OTHER RESERVED RIGHTS OF THESE DRAWINGS, AND THE SAME SHALL NOT BE RELUSED WITHOUT JU-JU-BS RRIOK WRITTEN CONSENT AN REUSE WITHOUT WATELTS OLOSIEN BY - UJA WILL BAT CLEINTS SOLE RISK AND WITHOUT INBILITY OR LEGAL EPOSURE TO JU-JU-B	IE VISION	4 BY APR. DATE
REUSE OF DRAWINGS JUJUS SHALL RETAIN ALL COMMOL LWN, STITUTORY, COPYRIGHT AN OTHER RESERVED RIGHTS OF THESE DRAWINGS, AND THE SAME SHALL NOT BE RELISED WITHOUT JUJUS PRIOR WRITTEN CONSENT AND REUSE MINTHOUT JULIER ON SONSENT BY LUA WILL ER AT CLIA SOLE RISK AND WITHOUT LIABILITY ORLEGAL, EXPOSIME TO JUJUS,	REV	NO. DESCRIPTION
WELL NO. 7 WELL COMPLETION	CIVIL (C)	STANDARD DETAILS
AT FULL SI INCH, SCAI LAST UPDATED	-20-007 IB C DLW E INCH E INCH E ACCOR 5/27/2021	:

AIR/VAC VALVE BOLLARDS INSTALLED WITH SLEEVE PER CITY DIRECTION, SO PAINTING NOT REQUIRED

	MINIMUM MEMBER SIZE AND WEIGHT FOR CHAIN LINK FENCE																			
MAT	TERIAL		BRACE &	TOP RAILS			LINE POSTS					END, CORNER, INTER. END				GATE POSTS				
CALV	/ANIZED	TUBI O.D.	JLAR #/FT.	ROLL F SIZE	ORMED #/FT.	TUBI O.D.	JLAR #/FT.	H–SE SIZE	CTION #/FT.	ROLL F SIZE	FORMED #/FT.	TUBI O.D.	ULAR #/FT.	ROLL F SIZE	FORMED #/FT.	FOR GATE LEAF WIDTH	TUBI O.D.	JLAR #/FT.	ROLL F SIZE	FORMED #/FT.
OR AL	LUMINUM DATED	1%"	2.27	15%" x 1¼"	1.35	2"	2.72	17%8" x 15%8"	2.70	176" × 176"	2.28	2%"	5.79	3½" x 3½"	5.14	0' - 6' 6' - 13' 13' - 18'	2 <sup>7</sup> 8" 4" 6 <sup>5</sup> 8"	5.79 9.10 18.97	3½" × 3½" 	5.14 
	IMINUM LLOY	1%"	0.786			2"	1.264	178" × 158"	0.913			2%"	2.004	3" × 3"	2.00	0' - 6' 6' - 13' 13' - 18'	2 <sup>7</sup> 8" 4" 6 <sup>5</sup> 8"	2.00 3.15 6.56	3" × 3" 	2.00 





## NOTES:

- 1. FENCE DESIGNER/MANUFACTURER TO PROVIDE ENGINEERING CALCULATIONS SEALED BY IDAHO PROFESSIONAL ENGINEER FOR CANTILEVER GATES.
- 2. GATES TO BE NON-MOTORIZED.
- FENCE DESIGNER/MANUFACTURE TO PROVIDE FINAL GATE DIMENSIONS AND LAYOUT. DIAMETERS AND CONCRETE FOOTINGS, INCLUDING EMBEDMENT DEPTH, GIVEN IN DETAIL 19 SHALL BE TAKEN AS MINIMUMS REQUIRED.
- 4. ALL MATERIALS AND HARDWARE SHALL BE GALVANIZED AND ABLE TO RESIST CORROSION DURING USE WITHOUT ADDITIONAL COATINGS.
- CONTRACTOR TO SUPPLY ALL HARDWARE, SUPPLIES, AND MATERIALS AS REQUIRED FOR A FULLY FUNCTIONAL GATE INSTALLATION AND TO MAKE THE CONNECTION BETWEEN THE GATES AND THE SITE FENCE.
- 6. PROVIDE A DIMENSIONED SHOP DRAWING SHOWING THE GATE DESIGN.

## ROLLING CHAIN LINK GATE

19 NOT TO SCALE

J-U-B ENGINEERS, INC. 201 South Jackson Street Moscow, ID 83843 Phone: 208.746.9010 Www.jub.com
JUB SHALL RETANALL COMMON LW, STATUTORY, COPYRGHT AND OTHER RESERVED RIGHTS OF THESE DRAWINGS, AND THE SAME SHALL NOT RELEASED MITOLICI, JULAS PROVING WATTER LOOSED. AND RELEASE WITHOUT VLARE INTO WATTER LOOSED. AND RELEASE WITHOUT VLARE LINE SAME TO JULAS. RELEASE AND WITHOUT UNBLITY OR LEGAL EXPOSURE TO JULAS. REVISION REVISION REVISION NO. DESCRIPTION BY AFPI. DATE
WELL NO. 7 WELL COMPLETION CIVIL (C) STANDARD DETAILS
FILE: 21-20-007_0-503X JUB PROJ. #: 21-20-007 DRAWN BY: ARB DESIGN BY: BK CHECKED BY: DLW I ONE INCH AT FULL SIZE. IF. NOT ONE INCH SCALE ACCORDINGLY LAST UPDATED: 527/2021 SHEET NUMBER: C-504

#### **GENERAL STRUCTURAL NOTES & SPECIFICATIONS**

- A THESE GENERAL STRUCTURAL NOTES AND SPECIFICATIONS SUPPLEMENT THE PROJECT WRITTEN TECHNICAL SPECIFICATIONS AND THE PROJECT STRUCTURAL DRAWINGS
- B. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION BRACING, TEMPORARY SHORING, AND OTHER SITE SAFETY CONTROLS REQUIRED DURING CONSTRUCTION IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. TO INSURE THE STABILITY AND SAFETY OF ALL CONSTRUCTION UNTIL IT IS COMPLETED AND SELF-SUPPORTING.
- C. THE CONTRACTOR IS RESPONSIBLE FOR ALL WATER, BOTH ABOVE AND BELOW GROUND, RUNOFF AND OTHER ENVIRONMENTAL CONTROLS REQUIRED DURING CONSTRUCTION TO INSURE THE SITE IS MAINTAINED IN COMPLIANCE WITH ALL APPLICABLE LOCAL STATE AND FEDERAL REGULATIONS.
- D. DETAILS ON THESE PLANS ARE INTENDED TO DEPICT THE GENERAL CONSTRUCTION DETAILS AND METHODS FOR THIS STRUCTURE. CONNECTION DETAILS AND CONDITIONS NOT SPECIFICALLY SHOWN THAT ARE SIMILAR IN NATURE TO THOSE THAT ARE SPECIFIED SHALL BE ASSUMED ONE AND THE SAME. IF QUESTIONS REGARDING THE APPLICATION OF DETAILS ARE ENCOUNTERED. NOTIFY
- THE ENGINEER FOR CLARIFICATION OR INSTRUCTION. E. PRIOR TO IMPLEMENTING ANY CHANGES TO THESE PLANS, THE ENGINEER SHALL BE NOTIFIED IN WRITING FOR THEIR WRITTEN APPROVAL. CHANGES IMPLEMENTED WITHOUT THE ARCHITECT/ENGINEERS WRITTEN APPROVAL SHALL RELIEVE THE ARCHITECT/ENGINEER OF ANY CLAIM OR LIABILITY RESULTING FROM THAT PORTION OF THE STRUCTURE CHANGED OR AFFECTED BY THE CHANGE

#### 2. CONTRACTOR RESPONSIBILITY FOR COORDINATION.

- A. IT IS THE CONTRACTORS PRIME RESPONSIBILITY TO COORDINATE THE WORK SHOWN ON ALL OF THE PROJECT DRAWINGS GENERAL, SPECIAL AND TECHNICAL SPECIFICATIONS.
- B. THE CONTRACTOR IS RESPONSIBLE TO VERIEVALL EXISTING CONSTRUCTION MATERIAL TYPES DIMENSIONS ELEVATIONS AND
- C. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE DIMENSIONS AMONG ALL DRAWINGS AND IN THE FIELD PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION, ANY DISCREPANCY SHALL BE IMMEDIATELY REPORTED TO TH
- ARCHITECT/ENGINEER. D. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CAREFULLY STUDY AND COORDINATE THE CONSTRUCTION REQUIREMENTS SHOWN ON BOTH THE ARCHITECTURAL AND THE STRUCTURAL DRAWINGS. WHEN CONFLICTS OR DISCREPANCIES ARE FOUND BETWEEN THESE PLAN SETS AND/OR WITHIN THESE DRAWINGS, THE CONTRACTOR SHALL REPORT THEM IMMEDIATELY TO THE PROJEC ARCHITECT/ENGINEER FOR DIRECTION AND/OR CLARIFICATION.
- E. ANY CONSTRUCTION WORK DONE BY THE CONTRACTOR BEFORE OBTAINING SUCH CLARIFICATION FROM THE PROJECT ARCHITECT/ENGINEER SHALL BE AT THE CONTRACTORS OWN RISK AND COST. FURTHERMORE: ANY WORK REQUIRED TO CORRECT, REPLACE AND/OR RESTORE THE WORK AS DIRECTED BY THE ARCHITECT/REGINEER SHALL BE AT THE CONTRACTORS OWN RISK AND COST

#### 3. CODES.

- A. INTERNATIONAL BUILDING CODE, IBC 2018 EDITION.
- B. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-16.
- AMERICAN CONCRETE INSTITUTE, ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE; REFERENCED EDITION AMERICAN CONCRETE INSTITUTE, ACI 311, SPECIFICATIONS FOR STRUCTURAL CONCRETE.
- E. NATIONAL DESIGN SPECIFICATIONS, NDS 2018 FOR WOOD CONSTRUCTION
- 4. SPECIAL INSPECTIONS. SPECIAL INSPECTIONS PER IBC CHAPTER 17 ARE REQUIRED FOR THE FOLLOWING ITEMS: C INDICATES
- CONTINUOUS, P INDICATES PERIODIC
- A. SOILS. BY GEOTECHNICAL ENGINEER FREQUENCY i SITE PREPARATION: ii FILL MATERIAL VERIFICATION: iii FILL PLACEMENT AND COMPACTION: LIFT THICKNESS: B. CONCRETE.
- REINFORCEMENT PLACEMENT PLACEMENT OF CAST-IN-PLACE ANCHORS: i VERIFICATION OF USE OF REQUIRED MIX: CONCRETE PLACEMENT:
- C. ALL SPECIAL INSPECTION SHALL BE PERFORMED BY ICC CERTIFIED INSPECTORS
- 5. SUBMITTALS
- A. SUBMIT REQUIRED COPIES, FOUR (4) MINIMUM, OF PRODUCT OR MATERIAL DESIGN INFORMATION TO THE ARCHITECT/ENGINEER FOR REVIEW FOR THE FOLLOWING ITEMS
- CONCRETE MIX DESIGNS AND ADMIXTURES. ii NON-SHRINK GROUT
- 6. DEFERRED SUBMITTALS. THE FOLLOWING ITEMS TO BE DESIGNED BY OTHERS ARE CONSIDERED "DEFERRED SUBMITTALS". DEFERRED SUBMITTALS SHALL BE ACCOMPANIED BY DESIGN DRAWINGS, SHOP DRAWINGS AND STRUCTURAL CALCULATIONS. STAMPED AND SIGNED BY A PROFESSIONAL STRUCTURAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF IDAHO
- A. PRE-ENGINEERED AND SHOP FABRICATED WOOD TRUSSES.
- B. PRE-ENGINEERED AND SHOP FABRICATED PRE-CAST CONCRETE COMPONENTS
- 7. SHOP DRAWINGS
- A. SUBMIT REQUIRED COPIES OF SHOP DRAWINGS, FOUR (4) MINIMUM, TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THE FOLLOWING ITEMS: i REINFORCING STEEL FOR ALL CONCRETE.
- 8. DESIGN CRITERIA.
- A. OCCUPANCY OR USE; IBC TABLE 1607.1: WELL HOUSE i RISK CATEGORY; ASCE TABLE 1.5-2: IV
- B. LIVE LOADS: MINIMUM BOOF LIVE LOAD: 25 PSE (SNOW)
- ii GROUND SNOW LOAD, PG: 22 PSF iii UNBALANCED SNOW PER ASCE-7, CHAPTER 7
- C. DEAD LOADS:
- ROOF DEAD LOAD: 18 PSF (a) TRUSS TOP CHORD: 8 PSF
- (b) TRUSS BOTTOM CHORD: 10 PSF (c) TRUSS NET UPLIFT: 15 PSF AT INTERIOR (ASD), 62 PSF AT OVERHANG (ASD)
- D. WIND: i BASIC WIND SPEED: 114 MPH
- ii SITE EXPOSURE: (
- iii IMPORTANCE FACTOR: 1.00 E. SEISMIC
- i EARTHQUAKE SPECTRAL RESPONSE ACCELERATION:
- (a) SHORT PERIOD, SS: 29.7% (b) 1-SECOND, S1: 10.7%
- ii IMPORTANCE FACTOR, IE: 1.5
- III SOIL CLASS: C
- SEISMIC RISK CATEGORY: F. MECHANICAL LOADS: REFER TO FRAMING PLANS AND MECHANICAL PLANS FOR SPECIAL MECHANICAL EQUIPMENT LOADS.
- 9. FOUNDATIONS
- A. ALL FOOTINGS TO BE PLACED ON 12" MIN THICK OF COMPACTED GRANULAR STRUCTURAL FILL (CA-1) ATOP PREAPARED BASALT BEDROCK. EXPOSED BEDROCK SUBGRADES MUST COMPRISE A NEAT AND LEVEL ROCK SURFACE, FREE OF LOOSE SOIL AND DEBRIS. WHERE VARIATIONS IN THE ROCK SURFACE REQUIRE PLACEMENT OF FILL TO CREATE A LEVEL SURFACE, PLACE COMPACTED GRANULAR STRUCTURAL FILL (CA-1).
- B. ALL PIERS AND EQUINGS OUTSIDE OR AT THE PERIMETER OF THE STRUCTURE OR IN OTHER UNHEATED AREAS SHALL BE SET TO A DEPTH OF AT LEAST 24-IN. BELOW FINISH GRADE, UNLESS OTHER WISE NOTED ON THE PLANS. C. ALLOWABLE BEARING PRESSURE FOR ALL FOOTINGS QA = 3,000 PSF
- C. ALCOWADE BEARING FILESOFILE FOR ALL FOR MATERIAL, SUCH AS INTERBED SOIL, ENCOUNTERED AT BOTTOM OF FOOTING D. LOCAL AREAS OF SOFT AND/OR UNACCEPTABLE MATERIAL, SUCH AS INTERBED SOIL, ENCOUNTERED AT BOTTOM OF FOOTING ELEVATIONS INDICATED ON THE PLANS MUST BE OVER-EXCAVATED AT LEAST 3-FEET AND BROUGHT UP TO DESIGN GRADE WITH COMPACTED STRUCTURAL FILL OR LEAN CONCRETE FILL.

E. ALL STRUCTURAL FILL AND/OR BACKFILL SHALL BE GRANULAR, FREE DRAINING, MATERIAL AND MUST MEET REQUIREMENTS IN ISPWC SECTION 802 - CRUSHED AGGREGATES. MATERIAL SHALL BE PLACED IN LIFTS NO GREATER THAN 6-IN. IN DEPTH AND COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED PER ASTM D1557.

- THE ENGINEER SHALL BE NOTIFIED IN WRITING IF ANY GROUND WATER INTERBED SOIL CLAY TYPE SOILS DEBRIS OR
- UNCONSOLIDATED MATERIALS ARE ENCOUNTERED DUBING EXCAVATIONS FOR FOUNDATIONS G. REFER TO THE FINAL PROJECT GEOTECHNICAL REPORT BY GPI, FILE NO. MO20009A, DATED JUNE 12, 2020
- 10 STRUCTURAL MATERIALS
- A. ANCHOR RODS: ANCHOR RODS (BOLTS SET INTO CONCRETE) SHALL BE ASTM F1554, FY=36 KSI. NUTS FOR ANCHOR RODS SHALL CONFORM TO ASTM A563, GRADE A, HEAVY HEX.
- B. THREADED STEEL RODS: THREADED STEEL RODS SHALL CONFORM TO ASTM A36. FY=36 KSI. NUTS FOR THREADED RODS SHALL CONFORM TO ASTM A563, GRADE A, HEAVY HEX.
- C. WASHERS: ALL WASHERS SHALL CONFORM TO ASTM F436
- PROJECT CONCRETE MIX TYPES: CONCRETE SHALL BE PROPORTIONED AND FURNISHED FOR THE VARIOUS PROJECT USES AS INDICATED ON THE PLANS AND AS FOLLOWS M2500-SEC: SECONDARY CONCRETE MIX FOR FILL AND BACKFILL AROUND BURIED PIPES UNDERNEATH STRUCTURAL FOOTINGS
- AND FOUNDATION SLABS: FC = 2,500 PSI, ABSOLUTE WATER-CEMENT RATIO BY WEIGHT = 0.55, AIR CONTENT = 6% (+/- 1.5%) MAXIMUM AGGREGATE SIZE 3/8-INCH; SLUMP 8-INCH.
- ii M4000-INT: CONCRETE MIX FOR CLASS 1, 2 OR 3 INTERIOR SLABS ON GRADE: F'C = 4,000 PSI, ABSOLUTE WATER-CEMENT RATIO BY WEIGHT = 0.45, AIR CONTENT = 0 TO 2% (NON-AIR ENTRAINED MIX). iii M4000-FND: STANDARD EXTERIOR CONCRETE MIX FOR NON-LIQUID RETAINING BUILDING FOOTINGS/FOUNDATION WALLS: FC =
- 4.000 PSI, ABSOLUTE WATER-CEMENT RATIO BY WEIGHT = 0.45, AIR CONTENT = 6% (+/- 1.5%) E CONCRETE MIX COMPONENTS
- A WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494, USED IN STRICT CONFORMANCE WITH THE MANUFACTURERS INSTRUCTIONS, SHALL BE INCORPORATED IN ALL CONCRETE MIX DESIGNS.
- FOR ALL WATER-RETAINING CONCEPTE STRUCTURAL WALLS AND SLABS, A HIGH-RANGE WATER-REDUCING (HRWR) ADMIXTURE CONFORMING TO ASTM C494, TYPE F OR G, SHALL BE USED. THE TOTAL SLUMP SHALL BE LESS THAN 10-IN.
   HIGHER WATER-CEMENT RATIOS THAN SHOWN ABOVE MAY BE USED IF SUBSTANTIATED IN ACCORDANCE WITH ACI 318-89,
- CHAPTER 5. V FLY-ASH CONFORMING TO ASTM C618 TYPE F OR C, MAY REPLACE UP TO 20% OF THE CEMENT CONTENT, PROVIDED THAT THE
- MIX STRENGTH IS SUBSTANTIATED BY TEST DATA. CEMENT: ASTM C150 TYPE I OR II.
- WATER: CLEAN & POTABLE
- VII AIR CHARLING FORALL. VIII AIR CHARLINING AGENT: ASTM C260. EXCEPT WHERE NOTED NON-AIR ENTRAINED. VIII AGGREGATE: 0.75-INCH MAXIMUM AGGREGATE PER ASTM C33. UNLESS NOTED OTHERWISE.
- MIX PROPORTIONING: ACI 211.1 AND 350R.
- G. CONCRETE ACCESSORIES: i REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60; #3 BARS MAY BE GRADE 40.
- ii WIRE: PLAIN WIRE SHALL CONFORM TO ASTM A 82. DEFORMED WIRE SHALL CONFORM TO ASTM A 496.
- IL UMBER: GRADING SHALL BE TO THE STANDARD GRADING RULES OF THE WYPA. TYPICAL STRUCTURAL LUMBER SHALL BE NUMBER 2 DOUGLAS-FIRLARCH OR BETTER. MEMBERS NOTED AS WOOD BEAMS, POSTS OR COLUMNS SHALL BE NUMBER 1 DOUGLAS-FIRLARCH OR BETTER. STUDS FOR INTERIOR NON-BEARING WALLS MAY BE STUD GRADE LUMBER. LUMBER TO BE LEFT
- EXPOSED, WITHOUT OTHER FINISH AND LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED. TREATED LUMBER: LUMBER, INCLUDING WOOD SHEATHING, TO BE LEFT EXPOSED WITHOUT OTHER FINISH, LOCATED WITH IN 8° OF FINISH GRADE, OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED MATERIAL. CONTRACTOR SHALL COORDINATE AND VERIFY THAT ALL STEEL ITEMS IN CONTACT WITH THE TREATED MATERIAL, INCLUDING STEEL HANGARS. CONNECTORS AND FASTENERS HAVE A GALVANIZED FINISH OF SUFFICIENT THICKNESS, OR OTHER TYPE OF PROTECTION, THAT IS
- COMPATIBLE WITH THE SPECIFIC TREATMENT TYPE SELECTED. J. NAILING: WHERE NOT OTHERWISE SPECIFIED ON THE PLANS, NAILING SHALL CONFORM TO IBC TABLE 2304.9.1, FASTENING SCHEDULE. ALL NAILS SHALL BE COMMON WIRE NAILS OR PNEUMATICALLY DRIVEN NAILS WITH AN EQUIVALENT CROSS-SECTION
- AND PERTATION, UNLESS NOTED OTHER WISE. K. BOLTS & LAG SCREWS FOR WOOD CONSTRUCTION: CONFORM TO ANSI/ASME STANDARDS B18.2.1-1981 AND THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS) 2018 EDITION PART VIII FOR BOI TS AND PART IX FOR SCREWS
- WOOD SCREWS: CONFORM TO ANSI/ASME STANDARDS B18.6.1-1981 AND THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS) 2018 EDITION PART XI. M. NAILS & SPIKES: CONFORM TO FEDERAL SPECIFICATION FF-N-105B AND THE NATIONAL DESIGN SPECIFICATION (NDS) 2018 EDITION
- PART XII N. LUMBER HARDWARE: WOOD CONSTRUCTION CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPAN'
- CURRENT CATALOG, OR AN APPROVED EQUAL. HARDWARE EXPOSED TO WEATHER OR VIEW, IN UNHEATED PORTIONS OF THE STRUCTURE, OR AS INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS SHALL BE HOT-DIPPED GALVANIZED WITH GALVANIZED FASTENERS
- O. ROOF SHEATHING: ALL ROOF SHEATHING SHALL BE 5/8" NOMINAL, EXTERIOR APA RATED SHEATHING (32/16) INSTALLED WITH PLY-CLIPS
- P. EXTERIOR WALL SHEATHING: ALL EXTERIOR WALL SHEATHING SHALL BE 1/2" NOMINAL APA RATED EXTERIOR SHEATHING (24/16). NOTE, 7/16" OSB WITH APA SPAN RATING OF (24/16) IS ACCEPTABLE.

#### 11. CONCRETE QUALITY AND DETAILS.

CAUSING DETRIMENTAL RESULTS:

(b) HIGH CONCRETE TEMPERATURE.

(a) HIGH AMBIENT TEMPERATURE

(c) LOW RELATIVE HUMIDITY

WIND SPEED

12.FORMWORK

(e) SOLAR RADIATION

B EMBEDMENTS IN CONCRETE

C. CONSTRUCTION JOINTS.

- A. GENERAL. CONCRETE SHALL BE PROPORTIONED TO PROVIDE AN AVERAGE COMPRESSIVE STRENGTH, FC, AS PRESCRIBED IN ACI 318/350 SECTION 5.3.2 AND SHALL SATISFY THE DURABILITY CRITERIA OF ACI 318/350 CHAPTER 4
- B. CONCRETE PROPORTIONS. i CONCRETE MIX PROPORTIONING SHALL BE IN ACCORDANCE WITH ACI 211.1; STANDARD PRACTICE FOR SELECTING PROPORTIONS FOR NORMAL, HEAVYWEIGHT, AND MASS CONCRETE.
- II CONCRETE MIX PROPORTIONING FOR LIGHTWEIGHT CONCRETE SHALL BE IN ACCORDANCE WITH ACI 211.2; STANDARD PRACTICE FOR SELECTING PROPORTIONS FOR LIGHTWEIGHT CONCRETE. FOR SELECTING PROPORTIONS FOR LIGHTWEIGHT CONCRETE. C. CONCRETE MIX VERIFICATION: CONCRETE MIX DESIGNS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39.
- D. EVALUATION AND ACCEPTANCE OF CONCRETE, CONCRETE SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI
- 318/350 SECTION 5.6. E. MIXING & PLACING CONCRETE. CONCRETE SHALL BE PREPARED, MIXED, PLACED AND CONSOLIDATED IN ACCORDANCE WITH ACI 318/350 SECTIONS 5.7 THROUGH 5.10 AND AS FOLLOWS:
- i ACI 304; GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE.
   ii ACI 309; GUIDE FOR CONSOLIDATION OF CONCRETE.
   F. CONCRETE CURING. CONCRETE SHALL BE MAINTAINED ABOVE 50-DEGREES F AND IN A MOIST CONDITION FOR AT LEAST 7 DAYS
- AFTER PLACEMENT, EXCEPT WHEN CURED IN ACCORDANCE WITH ACI 318 SECTION 5.11.3. i CURING OF CONCRETE SHALL BE PER THE RECOMMENDATIONS GIVEN IN ACI 308; GUIDE TO CURING CONCRETE. G. COLD WEATHER REQUIREMENTS. ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND
- PROTECTING CONCRETE DURING FREEZING OR NEAR-FREEZING WEATHER. THE RECOMMENDED PROCEDURES LISTED IN ACI 306; COLD WEATHER CONCRETING SHALL BE FOLLOWED. COLD WEATHER IS DEFINED AS A PERIOD WHEN, FOR MORE THAN 3 CONSECUTIVE DAYS, THE FOLLOWING CONDITIONS EXIST:
- (a) THE AVERAGE DAILY AIR TEMPERATURE IS LESS THAN 40-DEGREES F AND
- (a) THE AVERAGE DALLY AIR TEMPERATURE IS LESS THAN 40-DEGREES F AND (b) THE AIR TEMPERATURE IS NOT GREATER THAN 50-DEGREES F FOR MORE THAN ONE-HALF OF ANY 24-HOUR PERIOD. H. HOT WEATHER REQUIREMENTS. DURING HOT WEATHER, PROPER ATTENTION SHALL BE GIVEN TO INGREDIENTS, PRODUCTION METHODS, HANDLING, PLACING, PROTECTION, AND CURING TO PREVENT EXCESSIVE CONCRETE TEMPERATURES OR WATER EVAPORATION THAT COULD IMPAIR REQUIRED STRENGTH OR SERVICEABILITY OF THE MEMBER OR STRUCTURE. THE

A. FORMS SHALL RESULT IN A FINAL STRUCTURE THAT CONFORMS TO SHAPES, LINES, AND DIMENSIONS OF THE MEMBERS AS

MEEDMENTS IN CONCRETE. CONDUITS, PIPES, AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE AND WITHIN LIMITATIONS OF ACI 318/350 SECTION 6.3 SHALL BE PERMITTED TO BE EMBEDDED IN CONCRETE WITH APPROVAL OF THE PROJECT ENGINEER, PROVIDED THEY ARE NOT CONSIDERED TO REPLACE STRUCTURALLY THE DISPLACED CONCRETE, EXCEPT AS PROVIDED IN SECTION 6.3.6.

CONDUCTS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE UNLESS EFFECTIVELY COATED OR COVERED TO PREVENT ALUMINUM-CONCRETE REACTION OR ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL

CONSTRUCTION JOINTS SHALL ONLY BE PLACED WHERE INDICATED ON THE PROJECT DRAWINGS OR AS APPROVED BY THE

EQUIRED BY THE DESIGN DRAWINGS AND SPECIFICATIONS.
 DESIGN OF FORMWORK SHALL BE IN ACCORDANCE WITH ACI 318/350 SECTION 6.1.
 FORMWORK SHALL BE IN ACCORDANCE WITH ACI 347; GUIDE TO FORMWORK FOR CONCRETE.

PROJECT ENGINEER. ii CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318/350 SECTION 6.4

I HOT WEATHER IS ANY COMBINATION OF THE FOLLOWING CONDITIONS THAT TENDS TO IMPAIR THE QUALITY OF FRESHLY MIXED OR HARDENED CONCRETE BY ACCELERATING THE RATE OF MOISTURE LOSS AND RATE OF CEMENT HYDRATION, OR OTHERWISE

13.DETAILS OF REINFORCEMENT.	(JUB	
A. PLACEMENT OF ALL REINFORCING STEEL WITHIN CONCRETE STRUCTURES SHALL BE IN CONFORMANCE WITH ACI 318/350 CHAPTER 7	J-U-B ENGINEERS	, INC.
<ul> <li>7.</li> <li>7.</li> <li>8. REINFORCING STEEL HOOKS, BENDS, TIES, SPLICES AND OTHER REINFORCEMENT DETAILS SHALL BE IN ACCORDANCE WITH ACI 318; DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.</li> <li>C. SPACING LIMITS FOR REINFORCEMENT SHALL BE IN CONFORMANCE WITH ACI 318/350 SECTION 7.6.</li> <li>D. CONCRETE PROTECTION FOR REINFORCEMENT. UNLESS NOTED ELSEWHERE ON THE DRAWINGS, ALL REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER: <ul> <li>(a) CONCRETE CAST AGAINST EARTH: 3:00 INCH</li> <li>(b) CONCRETE EXPOSED TO EARTH OR WEATHER;</li> <li>NO. 5 OR SMALLER BARS: 1:50-INCH</li> <li>(a) CONCRETE CAST AGAINST EARTH: 3:00 INCH</li> <li>(b) CONCRETE NOT EXPOSED TO EARTH OR WEATHER;</li> <li>NO. 6 OR LARGER BARS: 1:50-INCH</li> <li>(c) CONCRETE BLOCKS OR PLASTIC-COATED BAR CHAIRS SHALL BE PROVIDED FOR SUPPORT OF ALL SLAB REINFORCING STEEL, SUFFICIENT IN NUMBER TO PREVENT SETTLEMENT OR SAGGING, BUT IN NO CASE SHALL SUCH SUPPORT BE CONTINUOUS. METAL CLIPS OR SUPPORTS SHALL NO TE PLACED IN CONTACT WITH THE FORMS OR THE SUB-GRADE.</li> </ul> </li> <li>F. DOWELS AND ANCHOR BOLTS SHALLB WIRED OR OTHERWISE HELD IN CORRECT POSITION PRIOR TO PLACING CONCRETE. CARE SHALL BE TAKEN TO INSURE THAT DOWELS AND ANCHOR BOLTS SETABBED INTO FRESHLY POURED CONCRETE! SOURED AND VIBRATED. IN NO CASE SHALL DOWELS OR ANCHOR BOLTS SETABBED INTO FRESHLY POURED CONCRETE!</li> <li>G. PROVIDE DOWELS IN FOOTINGS AND AT CONSTRUCTION JOINTS TO MATCH VERTICAL REINFORCING BAR SIZE AND SPACING, UNLESS OTHERWISE NOTED ON THE DRAWINGS.</li> <li>H. COORDINATE PLACEMENT OF DOWELS INTO MASONRY WALLS WITH THE MASONRY SHOP DRAWINGS.</li> <li>H. WORRE CONFLICTS.</li> <li>J. ALL BAR BENDS, HOOKS, SPLICES AND OTHER REINFORCING STEEL SUFFACES TAKE CARE TO LOCATE REINFORCING STEEL SO THERWISE NOTED ON THE PLACED WITH THE DRILLING OPERATIONS. MOVE BARS PLUS OR MINUS 1 TO 2 INCHES IN ORDER TO AVOID DRILLING CONFLICTS.</li> <li>J. ALL BAR BENDS, HOOKS, SPLICES AND OTHER REINFORCING STEEL DETAILS SHALL CONFORM TO THE REQUIREMENTS OF ACI 315.</li> &lt;</ul>	J-U-B ENGINEERS, INC. 201 South Jackson Street Moscow, ID 83843	Phone: 208.746.9010 www.jub.com
14. CONCRETE FLOORS AND SLABS.		
<ul> <li>A. CONCRETE FLOORS AND SLABS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 302; CONCRETE FLOOR AND SLAB CONSTRUCTION. PROVIDE THE FOLLOWING CLASS CONCRETE FLOOR SLABS IN ACCORDANCE WITH TABLE 2.1 UNLESS OTHERWISE NOTED ON THE DRAWINGS:</li> <li>INTERIOR GARAGE, INDUSTRIAL OR WORK AREAS SUBJECT TO EQUIPMENT OR TRAFFIC LOADS: CLASS 6 FLOOR WITH A SPECIAL METALLIC OF MINERAL AGGREGATE SURFACE HARDENER.</li> <li>EXTERIOR STRUCTURAL FLOOR SLABS SUBJECT TO FOOT AND MAINTENANCE TRAFFIC LOADS: CLASS 4 OR 5 FLOOR. PROVIDE A NONSLIP FINISH TO ALL WALKING SURFACES.</li> <li>B. PLACING, CONSOLIDATING, AND FINISHING. FOLLOW THE RECOMMENDATIONS GIVEN IN CHAPTER 8.</li> </ul>	8 100 100 100 100 100 100 100 10	BY APR. DATE
15. TIMBER FRAMING:	DRAWINGS JAV, STATU JAV, STATU JAV, STATU JAV, STATU JAV, STATU JAV, JAV, STATU JAV, JAV, JAV, JAV, JAV, JAV, JAV, JAV,	
<ul> <li>A. ALL WOOD FRAMING, BLOCKING AND NALLING SHALL CONFORM TO THE CURRENT LOCAL BUILDING CODE.</li> <li>B. ALL STUD WALLS ARE TO HAVE DOUBLE TOP PLATES OF THE SAME DIMENSIONS AND GRADE AS THE STUD. PLATES ARE TO BE LAPPED A MINIMUM OF 4:0° AND NALLED TOGETHER WITH AT LEAST (8) 16D NALLS THROUGH BOTH PLATES ON EACH SIDE OF ALL SPLICE POINTS OR AS NOTED ON THE PLANS AND DETAILS.</li> <li>C. ALL TRIMMERS SHALL HAVE SOLID BEARING TO THE FOUNDATION.</li> <li>D. ALL RAFTERS, TRUSSES AND JOISTS SHALL HAVE FULL DEPTH BLOCKING, UNLESS NOTED OTHERWISE ON THE PLANS AND DETAILS, AT BEARING SUPPORTS, SHEAR TRANSFER SUPPORTS, INTERMEDIATE AND CANTILEVER SUPPORTS AND AT MID-SPAN, AND AS REQUIRED BY THE BUILDING CODE OR PRODUCT SUPPLIER.</li> <li>E. ALL POSTS AND COLUMNS SHALL BE INSTALLED WITH APPROVED POST OR COLUMN CAPS AND BASES, UNLESS OTHERWISE NOTED ON THE PLANS.</li> <li>F. ALL FRAMING HARDWARE INCLUDING COLUMN CAPS AND BASES, JOIST HANGERS, TRUSS SANCHORS, STRAPS, ETC. SHALL BE APPROVED (IL: SIMPSON CO. OR EQUIVALENT) OR CUSTOM FABRICATED SPECIFICALLY AS DETAILED ON THE PLANS.</li> </ul>	REUSE OF DRAWINGS J.J.B. SHALL RETAIN ALL COMMON LWI, STATUTORY, COPYRIGHT AND D.J.J.B. SHALL NOT BE RESERVED AND THE SMAL SHALL NOT BE RELISED WITHOUT SHALE RAWINGS ANT THE AGAI SHALL NOT BE RELISED WITHOUT SHALE RAWINGS ANT THE AGAIN SOLE RISK AND WITHOUT VALUE AND WALL BE ALL EXPOSIDE REVISION REVISION	NO. DESCRIPTION
16.PRE-ENGINEERED/FABRICATED WOOD TRUSSES.		
<ul> <li>A. ALL PRE-ENGINEERED/FABRICATED WOOD (P.E.W.) TRUSSES INDICATED ON THE DRAWINGS SHALL BE METAL PRESS-PLATE CONNECTED WOOD TRUSSES DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF IDAHO PER THESE NOTES AND THE SPECIFICATIONS.</li> <li>i DESIGN P.E.W. TRUSSES TO THE FOLLOWING DEFLECTION LIMITS:</li> <li>ii ROOF LIVE LOAD: SPAN240 OR 3/4 IN MAXIMUM</li> <li>iii ROOF LIVE LOAD ONLY: SPAN360 OR 1/2-11 MAXIMUM</li> <li>SHOP DRAWINGS AND DESIGN CALCULATIONS SIGNED AND STAMPED BY THE DESIGN ENGINEER SHALL BE SUBMITTED TO THE ARCHITECTHENGINEER FOR REVIEW PRIOR TO FABRICATION.</li> <li>C. ALL NECESSARY BRIDGING, BLOCKING, PRE-NOTCHED OR BEVELED PLATES, HANGERS, ETC. SHALL BE DETAILED OR SPECIFIED ON THE SHOP DRAWINGS AND DURNISHED BY THE TRUSS MANUFACTURER.</li> <li>D. TRUSS MANUFACTURER SHALL VERIFY ALL SETBACKS, DIMENSIONS, OVERHANGS, VERTICAL CONTROLS AND DIMENSIONS PRIOR TO FABRICATION.</li> <li>C. ALTERATION OF THE TRUSS LAYOUT SHOWN ON THE PLANS MAY REQUIRE SUPPORTING STRUCTURAL AND FOUNDATION CHANGES, THEREFORE, PRIOR APPROVAL BY THE ARCHITECTENGINEER IS REQUIRED FOR ANY PROPOSED LAYOUT CHANGE.</li> <li>F. TRUSSES SHALL NOT BE FIELD MODIFIED WITHOUT WRITTEN AUTHORIZATION FROM THE TRUSS MANUFACTURER'S ENGINEER OF RECORD.</li> <li>G. TRUSSES SHALL BE HANDLED, ERECTED AND BRACED AS DIRECTED BY THE TRUSS MANUFACTURER AND PER THE REQUIREMENTS OF THE TRUSS PLATE INSTITUTE MANUAL HIB-91 OR CURRENT EDITION.</li> <li>17.WOOD SHEATHED NOOF DIAPHRAGMS:</li> <li>I UNLESS OTHERWISE NOTED ON THE DRAWINGS, ORIENT ROOF SHEATHING WITH FACE-GRAIN PERPENDICULAR TO SUPPORTING MEMBERS, WITH JOINTS IN ADJACENT ROWS STAGGERED 1/2 PANEL LENGTH.</li> <li>I WALLS @ 6H.N. O.C. AT ALL DIAPHRAGM BOUNDARIES.</li> <li>(b) 8D NALLS @ 6H.N. O.C. AT ALL DIAPHRAGM BOUNDARIES.</li> <li>(c) 8D NALLS @ 6H.N. O.C. AT ALL DIAPHRAGM BOUNDARIES.</li> <li>(c) 8D NALLS @ 6H.N. O.C. AT ALL DIAPHRAGE MOUNDARIES.</li> <li>(c) 8D NALLS @ 6H.N. O.C. AT ALL DIAPHRAGE BOUNDARIES.</li> <li>(c) 8D NALLS @ 12-IN. O.C. TO INTERMEDIATE FRAMING</li></ul>	WELL NO. 7 WELL COMPLETION STRUCTURAL (S)	GENERAL NUI ES
<ul> <li>ii ALL UNSUPPORTED EDGES TO BE BACKED WITH 2X SOLID BLOCKING.</li> <li>iii MINIMUM NAILING WHERE NOT NOTED OTHERWISE SHALL BE 8D NAILS @ 6-IN. O.C. TO ALL PANEL EDGES AND 12-IN. O.C. AT INTERMEDIATE SUPPORTING MEMBERS.</li> </ul>		
19.MECHANICAL OPENINGS.		
<ul> <li>A. MECHANICAL OPENINGS ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS; REFER TO MECHANICAL PLANS FOR SIZE AND LOCATIONS.</li> <li>B. OPENINGS THROUGH CONCRETE OR MASONRY WALLS GREATER THAN 6-INCH SQUARE OR 8-INCH ROUND SHALL BE REINFORCED WITH A MINIMUM OF 1-#5 BAR, EACH OF FOUR SIDES, EXTENDING 24" PAST THE OPENING EDGE. IN MASONRY WALLS THE BARS SHALL BE PLACED IN SOLID GROUTED CORES.</li> </ul>		
	FILE : 21-20-007_S-001 JUB PROJ. # : 21-20-007 DRAWN BY: ARB	
	DESIGN BY: JLS CHECKED BY: RSM	
	AT FULL SIZE, IF NOT	) ONE DINGLY

SHEET NUMBER:

S-001

1 2 36'-0" 8'-0" 3'-8" 8'-0" 13'-4" 8'-8" 2'-4" PRE-CAST - 4" SLAB ON GRADE, SEE NOTE 19 AIR GAP BASIN, SEE NOTE 18 FOR DESIGN LOADING 4" SLAB ON-GRADE, SEE NOTE 19 о<u></u>, A1 S-501 \_ \_ \_ A - DRAIN SEE CIVIL \_\_\_\_ (A1) PUMP PEDESTAL POURE DOOR ABOVE AFTER BUILDING ίC A1 S-501 SI AB-ON-GRADE Ø POURED. DOWELED AND EPOXIED PUMP SLOPE PEDESTAL TO BUILDING S.O.G. 18 **I** S (A4 S-501) A2 S-501 -FF = 100' - 0'', TYPPROVIDE (1) #4X48" DIAGONAL @ EA. CORNER -TOCW = 100'-6", TYP UNOTTTTT C.J 8^-0" S-501 TOF = 98'-4", TYP UNO HD-C.J. BOF = 97' - 6". TYP UNO -----SLOPE -6" SLAB ON GRADE HD -T O DRAIN = 6" SLAB ON 99'-10 1/2", TYP GRADE, SEE NOTE 19 HD ---A S-501 \_\_\_\_ \_\_\_\_\_ · – – – – – – <u>+ – – – – -</u> -----HD -B Τi

J-U-B ENGINEERS, INC. 1. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS. 201 South Jackson Street Moscow, ID 83843 J-U-B ENGINEERS, INC 2. DETAILS ON THESE PLANS ARE INTENDED TO DEPICT THE GENERAL CONSTRUCTION METHODS FOR THIS STRUCTURE.CONNECTIONS, DETAILS AND CONDITIONS NOT SPECIFICALLY SHOWN THAT ARE SIMILAR TO THOSE THAT ARE SPECIFICB SHALL BE ASSUMED ONE AND THE SAME. IF QUESTIONS REGARDING THE APPLICATION OF DETAILS ARE ENCOUNTERED, NOTIFY THE 0 Phone: 208.746.901 www.jub.com ARCHITECT/ENGINEER FOR CLARIFICATION IN A TIMELY MANNER PRIOR TO CONSTRUCTION. 3. SEE SITE/ARCH. DRAWINGS FOR WALKWAYS, DRIVEWAYS ... ETC. 4. FINISHED FLOOR ELEVATION=100'-0"=1239.0' IS THE REFERENCE DATUM FOR THESE STRUCTURAL DRAWINGS. SEE SITE DRAWINGS FOR FINAL FINISH FLOOR ELEV. AND SITE GRADING INFORMATION 6. INDICATES 2x WOOD STUD SHEAR WALL. SEE STRUCTURAL DETAILS FOR NAILING REQUIREMENTS. 7. SEE SHEETS S-001 FOR GENERAL STRUCTURAL NOTES AND ADDN'L INFO. 8. CJ=SLAB ON GRADE CONTROL JOINT OR SAW JOINT PER S-901. 9. PROVIDE  $\frac{1}{2}$  CONCRETE EXPANSION BOARD BETWEEN CONCRETE SLABS AND ALL FOUNDATIONS (STEM WALLS). 10. ALL EXTERIOR WALL STUDS ARE 2x6 DF #2 STUDS AT 16"O.C. TYPICAL HEADER SUPPORTS SHALL BE AS FOLLOWS:
 (1) 2x6 DF#2 TRIMMER STUDS AND (2)2x6 DF#2 KING STUDS, TYP. UNO. 12. CONTRACTOR IS TO COORDINATE WEIGHTS & LOCATIONS OF MECH UNITS, DUCTS, ... ETC (IF ANY) w/ TRUSS MANUFACTURER 13. SEE SHEET S-902 FOR TYPICAL WOOD FRAMING DETAILS. SAME SAME AT CLI 14. EXTERIOR WALL SHEATHING TO BE  $\vec{f}_8^{\prime\prime}$  Sheathing, APA INDEX 24/16. NAIL w/ 8d NAILS @ 6" OC ALONG SUPPORTED PANEL EDGES AND 12" OC ALONG INTERMEDIATE FRAMING, TYP. ALL EXTERIOR WALLS SHALL BE BLOCKED. ORY, COPYR S, AND THE S WRITTEN CC J-B WILL BE / EDRAWINGS LAW, STATUTO SE DRAWINGS FU-B'S PRIOR V MSENT BY J-U 15. ROOF SHEATHING TO BE \$" NOMINAL SHEATHING, APA INDEX 40/20. NAIL w/ 8d NAILS @ 6" OC ALONG SUPPORTED PANEL EDGES AND 12" OC ALONG INTERMEDIATE FRAMING. INSTALL PANELE DIGES AND 12 OF ALONG INTERMEDIATE FRAMING. INSTALL PANELS w/ FACE GRAIN PERPENDICULAR TO JOIST FRAMING AND STAGGER PANEL END JOINTS. USE PLY CLIPS BETWEEN TRUSSES. TYP. 16. TYP.=TYPICAL, G.T.=GIRDER TRUSS, FD=FLOOR DRAIN, TOC=TOP OF CONCRETE, FCJ=FLOOR CONTROL JOINT. J-U-B SHALL RETAIN / OTHER RESERVED RI SHALL NOT BE REUSE ANY REUSE WITHOUT SOLE RISK AND WITH 17. HD INDICATES FOUNDATION HOLD DOWN. USE SIMPSON STHD10 W/ (20) 16d SINKERS. ATTACH TO (2)2x6 DF#2 FULL HEIGHT KING STUDS. TYP. 18. PRE-CAST AIR GAP BASIN BY PRE-CAST MANUFACTURER. PRE-CAST DESIGNER TO DESIGN FOR 65 PCF LATERAL SOIL PRESSURE AND 240 PSF VEHICULAR SURCHARGE. 19. SLAB ON GRADE REINFORCEMENT SHALL BE #4 @ 15" O.C. EACH WAY, PLACED 2" CLEAR FROM TOP OF CONCRETE. SLAB ON GRADE TO BE PLACED OVER 10MIL VAPOR BARRIER AND 6" OF COMPACTED CRUSHED AGGREGATE MEETING REQUIREMENTS OF ISPWC SECTION 802 CRUSHED AGGREGATES. WELL NO. 7 WELL COMPLETION STRUCTURAL (S) FOUNDATION PLAN E: 21-20-007\_ JUB PROJ. # : 21-20-0 RAWN BY: ARB ESIGN BY: JLS HECKED BY: RSM AT FULL SIZE, IF NOT ON AST UPDATED: 5/11/20 SHEET NUMBER: S-101

A1

WELL HOUSE FOUNDATION PLAN SCALE: 0 2'-0" 4'-0" 8'-0 1/4"=1'-0" @ Full Scale

# WELL BUILDING PLAN NOTES

JUB

(1)2 2'-0" 36'-0" 15'-6" 6'-2" 4'-7" 6'-2" 3'-7" 7'-8" A1 S-502 B3 S-502 -0 4x10 · 4x10 4x10 (A). ١T ĭ₹I ĭ₹ı TRUSS BEARING 1 - 11 Å = 112'-0", TYP S<u>IRDEF</u> TRUSS B2 S-502 tп ROOF 1%"Å 1 11 - 1 HATCH 6x10 GIRDEF TRUSS -3546" (A3) S-502 B1 6'-0" CLEAR S-502 ~~~, 0. C. ° RIDGE LINE ò Ŵ. ∣<u>ka </u>†† B3 S-502 11 Ш - 11 ш ĨΣ 4×10 DER (A1) Ш 11 S-502 4x10 - 11 4x10 4×10 B E= ヒメーケー • • LOUVER AND HEADER SHIFTED 6" NORTH TO ACCOMODATE FOR ALLEN-BRADLEY VFD AND HARMONIC FILTER

2'-0"

A2 S-502



PUMP STATION ROOF FRAMING PLAN SCALE: 0 2'-0" 4'-0" 8'-0

1/4" = 1'-0" @ Full Scale

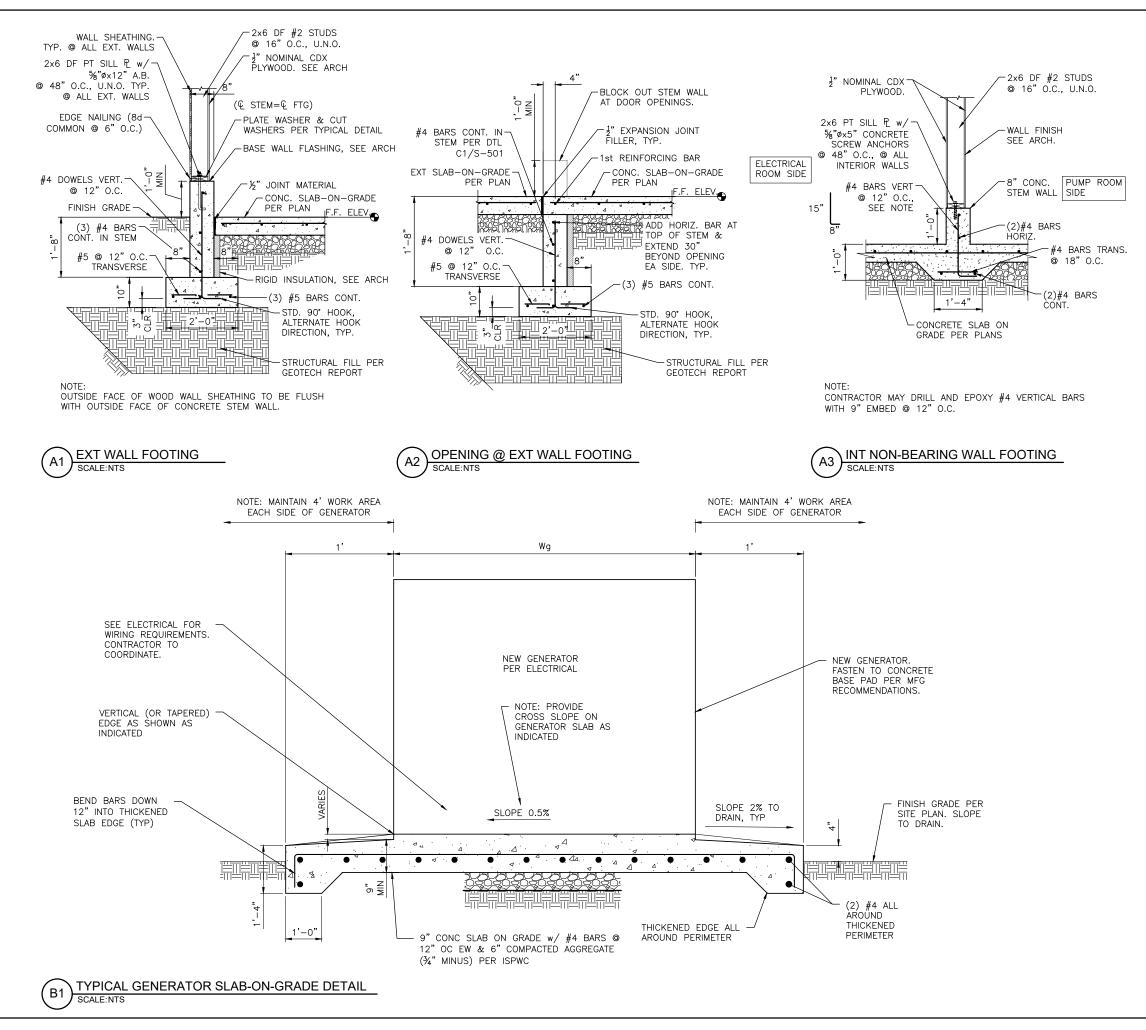
A1

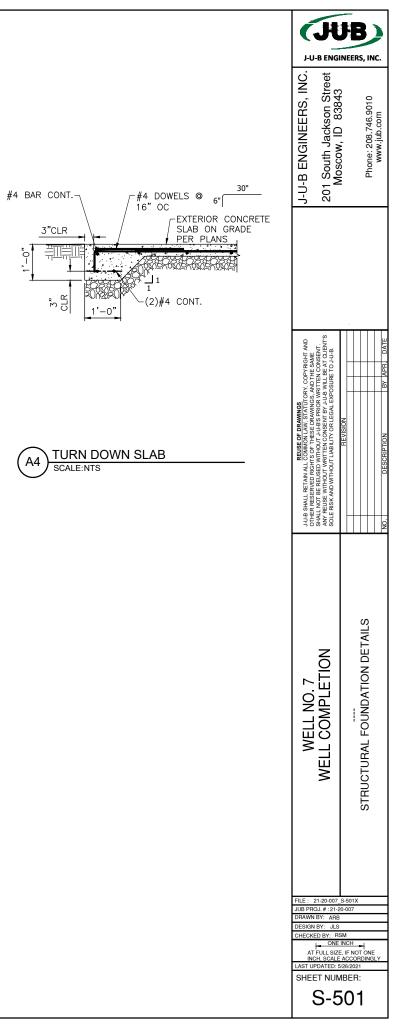
J-U-B ENGINEERS, INC. 1. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS. J-U-B ENGINEERS, INC. 201 South Jackson Street Moscow, ID 83843 2. DETAILS ON THESE PLANS ARE INTENDED TO DEPICT THE GENERAL CONSTRUCTION METHODS FOR THIS STRUCTURE.CONNECTIONS, DETAILS AND CONDITIONS NOT SPECIFICALLY SHOWN THAT ARE SIMILAR TO THOSE THAT ARE SPECIFICB SHALL BE ASSUMED ONE AND THE SAME. IF QUESTIONS REGARDING THE APPLICATION OF DETAILS ARE ENCOUNTERED, NOTIFY THE 0 Phone: 208.746.901 www.jub.com ARCHITECT/ENGINEER FOR CLARIFICATION IN A TIMELY MANNER PRIOR TO CONSTRUCTION. 3. SEE SITE/ARCH. DRAWINGS FOR WALKWAYS, DRIVEWAYS ... ETC. 4. FINISHED FLOOR ELEVATION=100'-0"=1239.0' IS THE REFERENCE DATUM FOR THESE STRUCTURAL DRAWINGS. SEE SITE DRAWINGS FOR FINAL FINISH FLOOR ELEV. AND SITE GRADING INFORMATION 6. INDICATES 2x WOOD STUD SHEAR WALL. SEE STRUCTURAL DETAILS FOR NAILING REQUIREMENTS. 7. SEE SHEETS S-001 FOR GENERAL STRUCTURAL NOTES AND ADDN'L INFO. 8. CJ=SLAB ON GRADE CONTROL JOINT OR SAW JOINT PER S-901. 9. PROVIDE  $\frac{1}{2}$  CONCRETE EXPANSION BOARD BETWEEN CONCRETE SLABS AND ALL FOUNDATIONS (STEM WALLS). 10. ALL EXTERIOR WALL STUDS ARE 2x6 DF #2 STUDS AT 16"O.C. 11. TYPICAL HEADER SUPPORTS SHALL BE AS FOLLOWS: (1) 2x6 DF#2 TRIMMER STUDS AND (2)2x6 DF#2 KING STUDS, TYP. UNO. 12. CONTRACTOR IS TO COORDINATE WEIGHTS & LOCATIONS OF MECH UNITS, DUCTS, ... ETC (IF ANY) w/ TRUSS MANUFACTURER. 13. SEE SHEET S-902 FOR TYPICAL WOOD FRAMING DETAILS. SAME SAME ONSEP REUSE OF DRAWINGS REUSE OF DRAWINGS HTS OF THESE DRAWING AND THE SA MIT OF THESE DRAWING AND THE SA WITHOUT J-US PRORY MITTER CO. 14. EXTERIOR WALL SHEATHING TO BE  $\vec{f}_8^{\prime\prime}$  Sheathing, APA INDEX 24/16. NAIL w/ 8d NAILS @ 6" OC ALONG SUPPORTED PANEL EDGES AND 12" OC ALONG INTERMEDIATE FRAMING, TYP. ALL EXTERIOR WALLS SHALL BE BLOCKED. 15. ROOF SHEATHING TO BE  $\S''$  NOMINAL SHEATHING, APA INDEX 40/20. NAIL w/ 8d NAILS @ 6" OC ALONG SUPPORTED PANEL EDGES AND 12" OC ALONG INTERMEDIATE FRAMING. INSTALL PANELS w/ FACE GRAIN PERPENDICULAR TO JOIST FRAMING AND STAGGER PANEL END JOINTS. USE PLY CLIPS BETWEEN TRUSSES. TYP. 16. TYP.=TYPICAL, G.T.=GIRDER TRUSS, FD=FLOOR DRAIN, TOC=TOP OF CONCRETE, FCJ=FLOOR CONTROL JOINT. J-U-B SHALL RETAIN A OTHER RESERVED RIG SHALL NOT BE REUSE ANY REUSE WITHOUT SOLE RISK AND WITH 17. HD INDICATES FOUNDATION HOLD DOWN. USE SIMPSON STHD10 W/ (20) 16d SINKERS. ATTACH TO (2)2x6 DF#2 FULL HEIGHT KING STUDS. TYP. 18. ALL HEADERS NOT LABELED ON PLAN SHALL BE 4x10 DF #2 FOR EXTERIOR BEARING WALLS AND (2) 2x10 DF #2 FOR INTERIOR NON-BEARING WALLS. SEE NOTE 11 FOR TYPICAL HEADER SUPPORTS. WELL NO. 7 WELL COMPLETION STRUCTURAL (S) ROOF PLAN E: 21-20-007\_S JUB PROJ. # : 21-20-0 RAWN BY: ARB ESIGN BY: JLS HECKED BY: RSM AT FULL SIZE, IF NOT ON LAST UPDATED: 5/26/202 SHEET NUMBER:

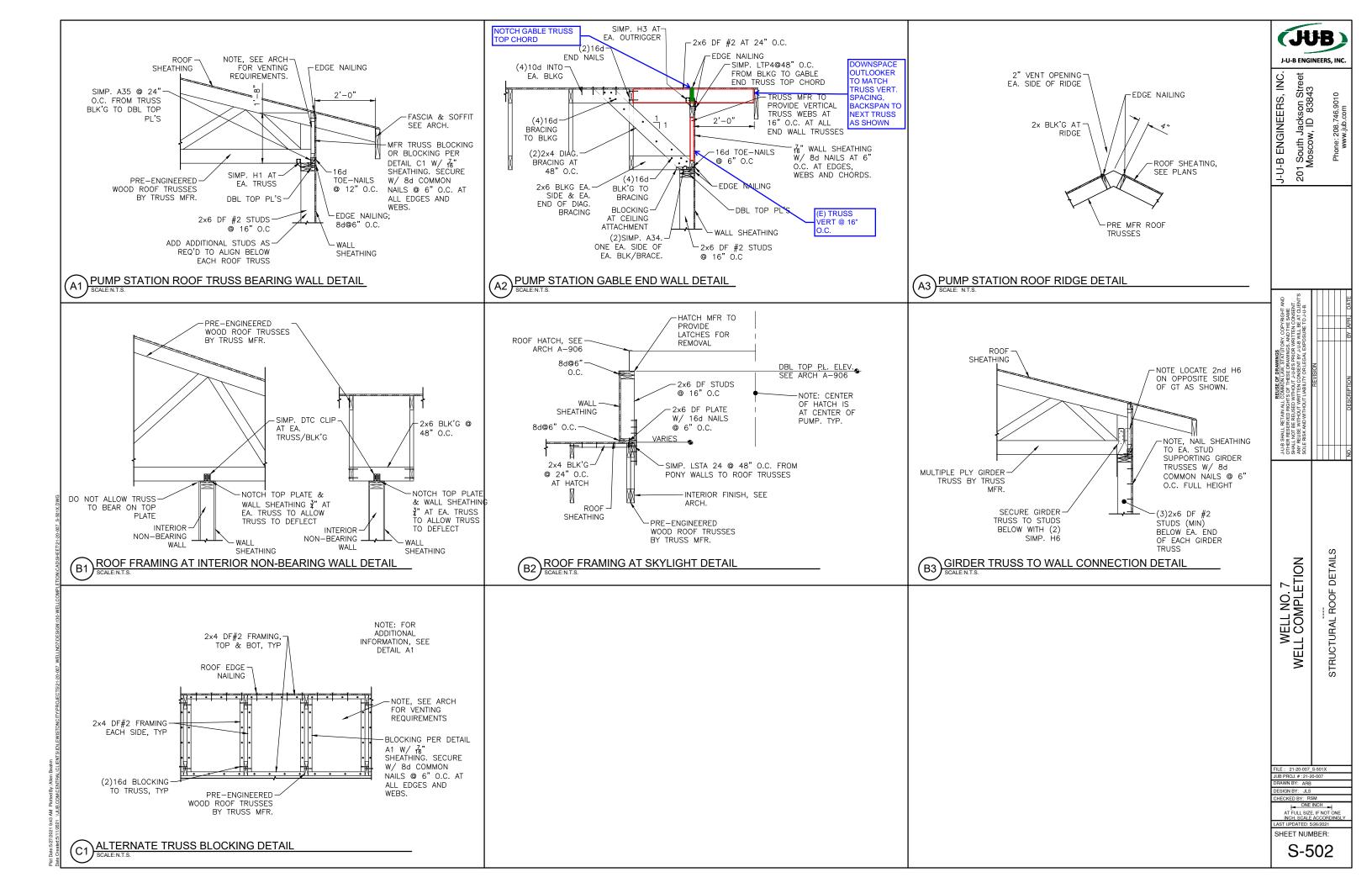
# WELL BUILDING PLAN NOTES

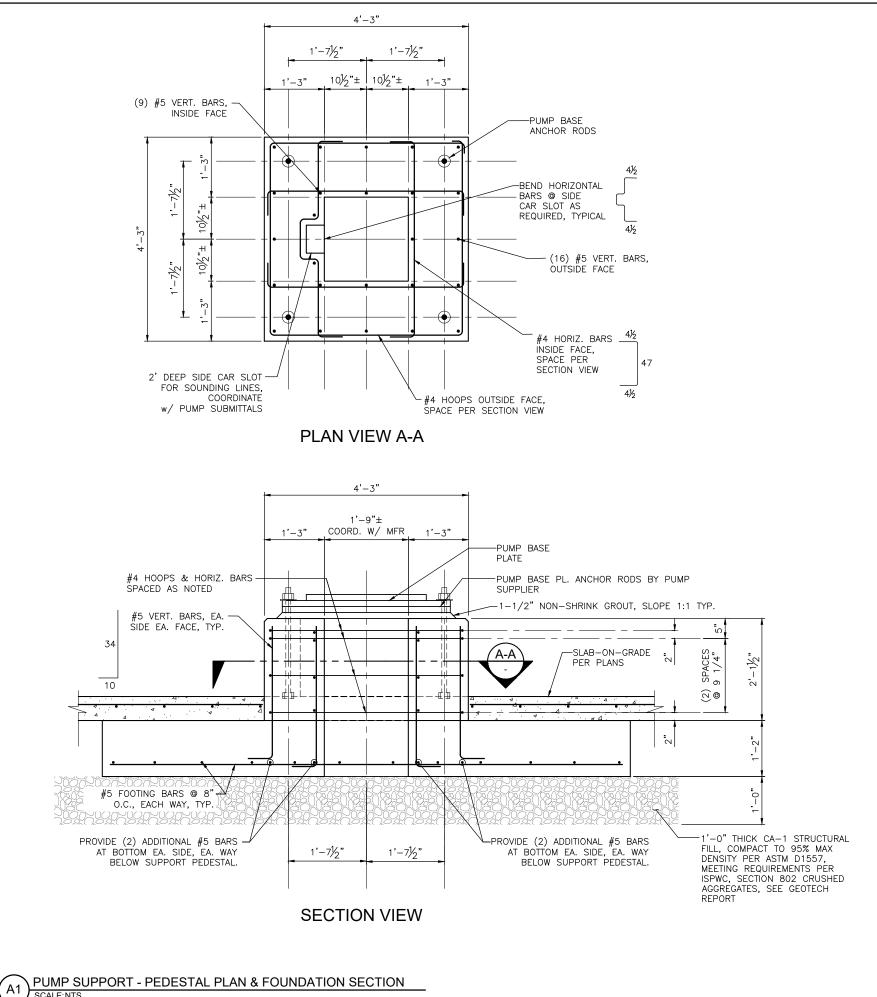
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S-102





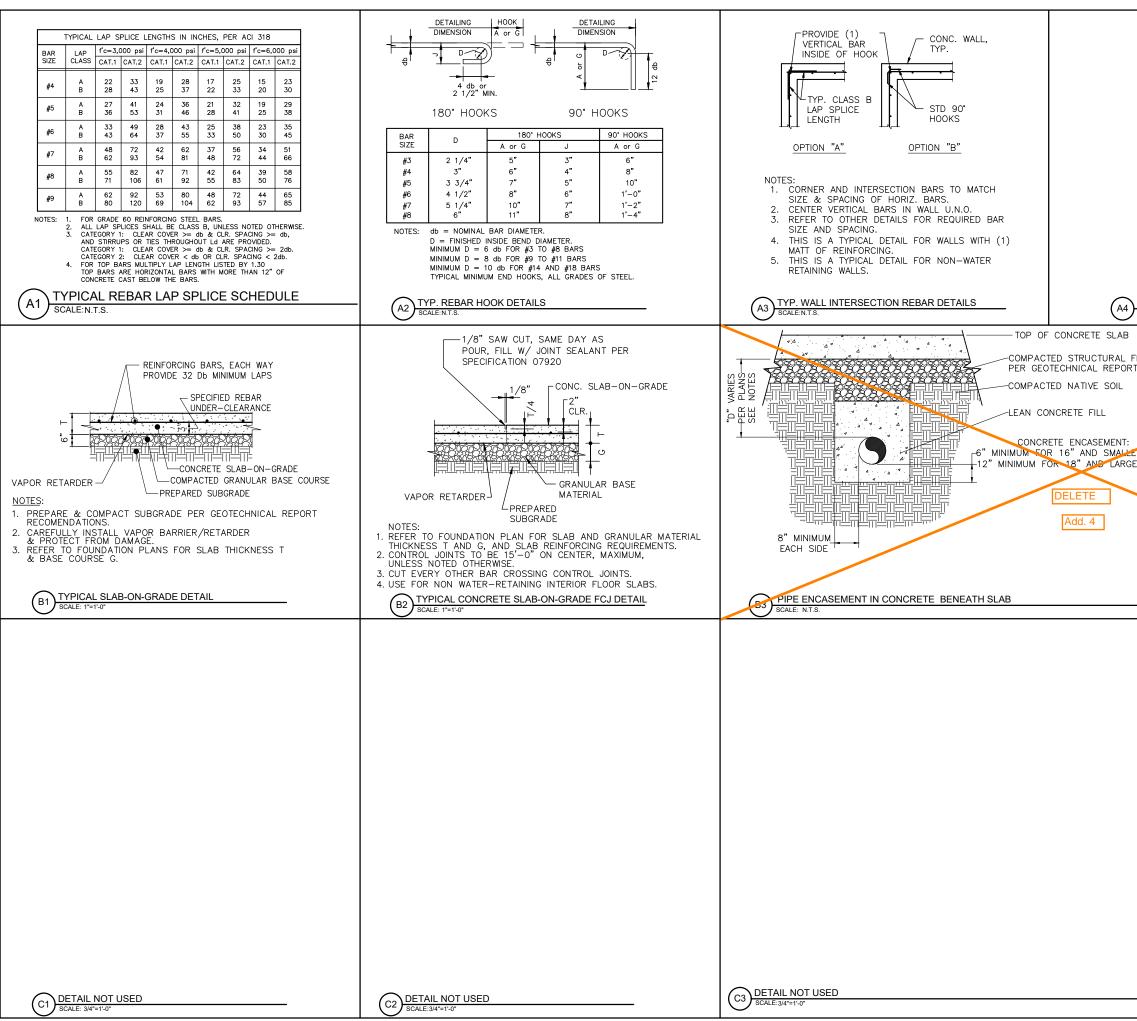




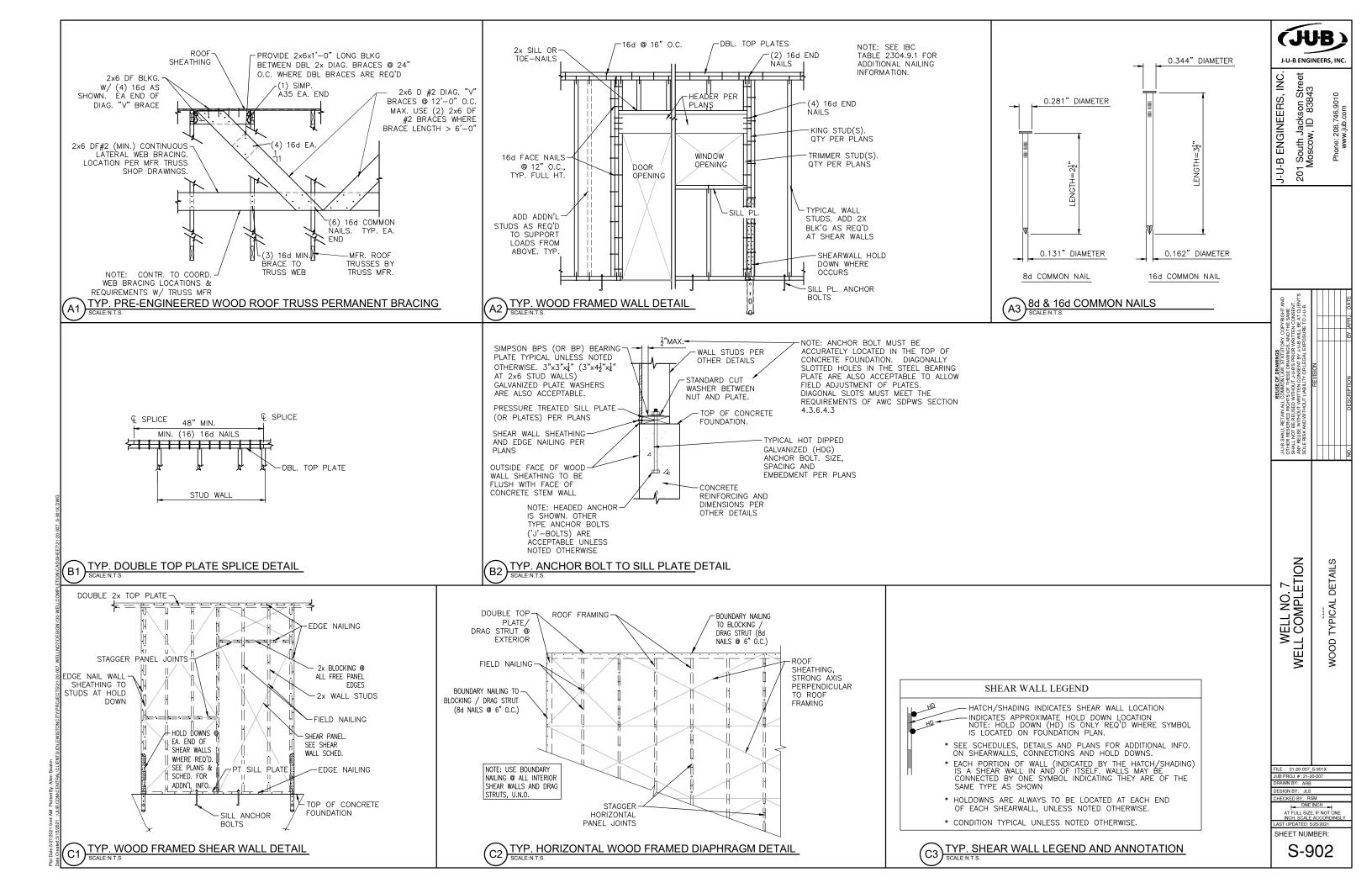
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J-U-B ENG	INEERS, INC.
J-U-B ENGINEERS, INC. 201 South Jackson Street Moscow, ID, 83843	Phone: 208.746.9010 www.jub.com
RIGHT AND SAME DNSENT. AT CLIENT'S J-U-B.	BY APR. DATE
TORY, COPYE SS, AND THE & WRITTEN CA U-B WILL BE EXPOSURE TO	BY AP
REUSE OF DRAWINGS U-JU-B SHALL RETAIN ALL COMMONLY STATUTORY, COPYRIGHT AND OTHER RESERVED RIGHTS OF THESE DRAWINGS, AND THE SAME ANY REUSE WITHOUT VARITIEN CONSIGNT PY-U-JU-B SHORK WITHEN CONSENT: ANY REUSE WITHOUT INABILITY OR LEGAL EXPOSURE TO JU-U-B SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO JU-U-B	REVISION DESCRIPTION
J-U-B OTHE SHAL ANY SOLE	N
WELL NO. 7 WELL COMPLETION	STRUCTURAL PUMP SUPPORT DETAILS
FILE : 21-20-007_ JUB PROJ. # : 21-2 DRAWN BY: ARB	_S-501X 20-007
DESIGN BY: JLS CHECKED BY: R ONE AT FULL SIZE	INCH
INCH, SCALE LAST UPDATED: 1 SHEET NUN	ACCORDINGLY 10/13/2021 IBER:
S-5	503

ORIGINAL S-503 WAS **RE-ISSUED IN WORK** CHANGE DIRECTIVE 01 TO INCORPORATE THE SIDE CAR SLOT AS S-503



	J	<b>JB</b> )
	J-U-B ENG	INEERS, INC.
	J-U-B ENGINEERS, INC. 201 South Jackson Street	Phone: 208.746.9010 www.jub.com
DETAIL NOT USED SCALE:3/4*=1'-0*	ND  NUTS	
FILL RT EER PIPE, GER PIPE <u>NOTES:</u> 1. UNLESS NOTED OTHERWISE: • JE "D" IS LESS THAN 1'-6" PROVIDE CONCRETE ENCASEMENT CONTINUOUS TO SLAB.	JUJB SHALL RETNI ALL COMMINGS JUJB SHALL RETNI ALL COMMON LUNE, STATUDRY, COPYRIGHT AND OTHER RESERVED REHTS OF THESE DRAMINGS, AND THE SAME SHALL NOT BE REJERD WITHOUT VLUES RONG WITHE ACOURSENT: ANY REJUSE WITHOUT VLUES RONG WILL BE AT CLIENTS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO JUJU. B	REVISION REVISION BY APR. DATE NO. DESCRIPTION BY APR. DATE
<ul> <li>IF "D" IS GREATER THAN 1'-6" PROVIDE CONCRETE ENCASEMENT TO TOP OF NATIVE SOIL; 12" MINIMUM CONCRETE ENCASEMENT.</li> <li>2. EXTEND CONCRETE PIPE ENCASEMENT 12" BEYOND EDGE OF SLAB, TYPICAL.</li> </ul>	WELL NO. 7 WELL COMPLETION	 CONCRETE TYPICAL DETAILS
C4 DETAIL NOT USED SCALE:3/4"=1'-0"	FILE: 21:20:007 JUB PROJ. # :21: DRAWN BY: ARE DESIGN BY: JLS CHECKED BY: R AT FULL SIZ INCH SCALI LAST UPDATED: SHEET NUN	20-007 3 SIM ENCH



CODE VERSION: 2018 I-CODES

GENERAL NOTES

1. SEE CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL FOR ADDITIONAL CODE RELATED REQUIREMENTS.

BUILDING:	02.	E CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL FOR ADDITIONAL CODE RELATED REQUIREMENTS.
BOILDING.		WELL #7 BUILDING
SIZE: (exterior face of walls)		28'-0" x 36'-0"
TOTAL BUILDING PERIMETER:		128'-0" LF (EXTERIOR FACE OF FOUNDATION)
OCCUPANCY CLASSIFICATION:	[Chapter 3]	U, UTILITY AND MISCELLANEOUS
MIXED OCCUPANCIES:	[Chapter 5]	[508.3] NO, NONSEPERATED OCCUPANCIES
SEPARATION:	[Table 602]	SEPARATION DIST. > 30' ON FOUR SIDES: 0 (NOT REQUIRED)
FIRE RATING (EXT. WALL):		TYPE VB, U: 0 HR (NOT REQUIRED)
TYPE OF CONSTRUCTION:	[Chapter 6]	VB: CONSTRUCTION IN WHICH THE STRUCTURAL ELEMENTS, EXTERIOR WALLS AND INTERIOR WALL ARE OF ANY MATERIALS PERMITTED BY THIS CODE.
BASIC ALLOWABLE AREA: [	Table 506.2]	(NOT SPRINKLED) 5,500 SF
FRONTAGE: [Se	ection 506.3]	(30' or greater on 4 sides) 4,125 SF
TOTAL ALLOWABLE AREA: (Excludes exterior wa	lls) [Def]	9,625 SF MAX. ALLOWABLE AREA
ACTUAL BUILDING AREA: (Excludes exterior w fire area)	alls, not	(OK) 950 SF
MAXIMUM BUILDING STORY: [	Table 504.4]	NS 1 STORY
ACTUAL BUILDING STORY:		(OK) 1 STORY
MAXIMUM BUILDING HEIGHT: [	Table 504.3]	NS 40'
ACTUAL BUILDING HEIGHT: (Average Height)		(OK) 16'-4" +/-
FIRE-RESISTANCE REQUIREMENTS:	[Table 601]	
PRIMARY STRUCTURAL FRAME:		0
EXTERIOR BEARING WALLS:		0
INTERIOR BEARING WALLS:		0
EXTERIOR NON-BEARING WALLS:	[Table 602]	GROUP U, VB (X <u>&gt;</u> 30') = 0
INTERIOR NON-BEARING WALLS:		0
FLOOR CONSTRUCTION:		0
ROOF CONSTRUCTION:		0
ATTIC DRAFTSTOPPING (EXCEEDING 3,000 SF IN <u>COMBUSTIBLE</u> CONSTRUCTION. DRAFTSTO REQUIRED IN ATTIC AREA THAT EXCEED 3,000	PPING	NOT REQUIRED, LESS THAN 3,000 SF
FIRE AREA: (Excludes exterior walls)		(OK) 950 SF
FIRE -RESISTANT BARRIER BETWEEN FIRE AR	EAS: le 707.3.10]	(NO) NOT REQUIRED
FIRE PROTECTION:		(NO) NOT REQUIRED
PORTABLE FIRE EXTINGUISHERS:	[906]	NOT REQUIRED FOR U OCCUPANCY, HOWEVER PROVIDED (SEE SPECS & FLOOR PLANS FOR LOCATIONS)
FIRE ALARM & DETECTION SYSTEMS:	[907.2.4]	MANUAL FIRE ALARM & AUTOMATIC SMOKE DETECTION SYSTEM NOT REQUIRED
FUNCTION OF SPACE [Ta	ble1004.1.2]	MECHANICAL & ELECTRICAL EQUIPMENT ROOM: 300 GROSS
OCCUPANT LOAD: [Tab	le1021.2(2)]	950/300 = 4
NO. OF REQUIRED EXITS: [Ta	ble1006.2.1]	U, 1 EXIT REQ'D FROM EACH AREA (4 < 49)
MAXIMUM TRAVEL DISTANCE:	able1017.2]	(OK) U, W/O SPRINKLER: 300 FT (LONGEST TRAVEL DISTANCE IS UNDER 100')
MAXIMUM COMMON PATH OF TRAVEL: [Tab	le 1006.2.1]	(OK) U, W/O SPRINKLER, OL<30: 100 FT

# 16 BUILDING CODE ANALYSIS

IBC TABLE 307.1(2) (IFC TABLE 5003.1.1(2)) MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA OF HAZARDOUS MATERIALS POSING A HEALTH HAZARD <sup>a.c. f. h. i</sup>									
MATERIAL	LOCATION	PHYSICAL STATE	IBC/IFC MATERIAL CLASSIFICATION	PROJECT QUANTITY	UNITS	MAXIMUM ALLOWED QUANTITY(MAQ) ALLOWED	NFPA RATING	RESULT	
	BUILDING NO ROOM	SOLID OR		MAX. AT ANY		(NON-SPINKLED)			
	NO ROOM	IBC/IFC		ONE TIME <sup>1</sup>		USE-CLOSED SYSTEMS <sup>b</sup>			
12.5% SODIUM HYPOCHLORITE	PUMP	LIQUID	CORROSIVE	500	GAL	500 LIQUID GALLONS d	2,0,0	GROUP U - OK	
	ROOM 100		UNSTABLE (REACTIVE) CLASS 1	500	GAL	NOT LIMITED		(H-4 NOT REQUIRED)	

Note: A product can and must be listed under all applicable IBC Material Classifications. While other agencies do not require this, the IBC/IFC are the only agencies that we are aware of that requin multiple classification of chemicals that fall under any of the materials listed in the IBC 307.1(1) and IBC 307.1(2). The most restrictive would apply. Material classifications must meet IBC/IFC definitions which could differ from similar classifications listed on MSD sheets.

#### IBC/IFC FOOTNOTES:

- For use of control areas, see Section 5003.8.3.
- The aggregate quantity in use and storage shall not exceed the quantity listed for storage
- Not applicable
- Maximum allowable quantities shall be increased 100% in buildings equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1. Where Note e also applies, the increase for both notes shall be applied accumulatively. Not Used. Not applicable. Not Applicable.
- Not Applicable.
- Quantities in parentheses indicate quantity units in parentheses at the head of each colum
- For gallons of liquids, divide the amount in pounds by 10 in accordance with Section 5003.1.2
- TABLE FOOTNOTES:
- Analysis contains the general requirements for hazardous materials. See IFC, Chapter 50, 54, 66 for additional specific requirements.

## HAZARDOUS MATERIAL INVENTORY

SCALE: NTS

#### CODE VERSION: 2018 IECC

UPON REVIEW OF BUILDING USE, THE NEW BUILDING STRUCTURES MEET THE INTENT OF THE IDAHO BUILDING CODE, IDAPA 24.39.30.004.04.a AMENDMENT TO THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) AND ARE EXEMPT FROM THE PROVISION OF THE 2018 IECC. IDAHO BUILDING CODE, IDAPA 24, 39, 30, 004, 04, a AMENDMENT TO THE 2018 IECC STATES: "INDUSTRIAL, ELECTRONIC AND MANUFACTURING EQUIPMENT. BUILDINGS OR PORTIONS THEREOF THAT ARE HEATED AND COOLED

EXCLUSIVELY TO MAINTAIN THE REQUIRED OPERATING TEMPERATURE OF INDUSTRIAL, ELECTRONIC OR MANUFACTURING EQUIPMENT SHALL BE EXEMPT FROM THE PROVISIONS OF 2018 IECC".

#### THERMAL ENVELOPE VALUES FOR THIS PROJECT \*

BUILDING COMPONENTS:	2018 IECC MIN. THERMAL REQUIREMENTS	THERMAL VALUES FOR PROJECT COMPONENTS							
WELL #7 WELLHOUSE									
ROOF (Attic):	R-38	R-38 MIN. BLOWN-IN FIBERGLASS ATTIC INSULATION							
WALLS, ABOVE GRADE: (Wood framed)	R-20	R-21 5 1/2" HIGH-DENSITY FIBERGLASS BATT INSULATION							
SLAB-ON-GRADE, NON-HEATED FLOORS:	*R-10 FROM T.O. SLAB OR BELOW GRADE,	R-10 2" RIGID FOUNDATION INSULATION (to b.o. slab)							
VERTICAL FOR 24" BELOW *									
SWINGING INSULATED METAL DOORS:	U-0.37	INSULATED METAL DOORS: U-0.37 OR LESS							
SECTIONAL INSULATED OVERHEAD DOOR:	U-0.31	2" INSULATED SECTIONAL DOOR: R-17.5 (U-0.05)							
VERTICAL FENESTRATION-WINDOWS: (Vinyl/Fixed)	U-0.38	U-0.28 OR LESS							

#### EXEMPTIONS TAKEN:

(REMAINING 2018 IECC REQUIREMENTS TO BE MET OR EXCEEDED)

- EXTEND INTERIOR VERTICAL FOUNDATION INSULATION WITHIN 3" FROM TOP OF SLAB. INSTEAD OF TOP OF SLAB. EXPOSED EDGE OF RIGID NSULATION IS VULNERABLE TO DAMAGE OVER TIME DUE TO CLEANING AND POWER WASHING OUT VEHICLE STORAGE BAYS. BY HOLDING INSULATION DOWN AND CONCRETE SLAB EXTENDING OVER EDGE OF RIGID INSULAITON WILL PROTECT INSULATION FROM LONG TERM DAMAGE AND DETERIORATION.
- NO THERMAL INSULATION AT EXTERIOR WALL FOUNDATION STEM WALL THAT EXTENDS 12-INCHES ABOVE THE INTERIOR FINISH SLAB. AIR BARRIER ASSEMBLIES REDUCTION, CONCRETE STEM WALL WITH CLEAR WATER SEALER ON EXTERIOR AND INTERIOR OF WALLS.

# 3 BUILDING ENVELOPE CONSTRUCTION REQUIREMENT

CODE VERSION:	2018 INTERNATIONAL ENERGY CONSERVATION CODE
CLIMATE ZONE:	5B (NEZ PERCE, IDAHO)
CHAPTER 1, C104 - INSF C104.1 GENERAL.	PECTIONS
	/ORK FOR WHICH A PERMIT IS REQUIRED SHALL BE SUBJECT TO INSPECTION BY THE S OR HER DESIGNATED AGENT, AND SUCH CONSTRUCTION OR WORK SHALL REMAIN
THE PERMIT APPLICA	OSED FOR INSPECTION PURPOSES UNTIL APPROVED. IT SHALL BE THE DUTY OF NT TO CAUSE THE WORK TO REMAIN ACCESSIBLE AND EXPOSED FOR INSPECTION THE CODE OFFICIAL NOR THE JURISDICTION SHALL BE LIABLE FOR EXPENSE

ALL REMAIN UTY OF PECTION ENTAILED IN THE REMOVAL OR REPLACEMENT OF ANY MATERIAL, PRODUCT, SYSTEM OR BUILDING COMPONENT REQUIRED TO ALLOW INSPECTION TO VALIDATE COMPLIANCE WITH THE CODE. C104.2 REQUIRED INSPECTIONS.

- THE CODE OFFICIAL OR HIS OR HER DESIGNED AGENT, UPON NOTIFICATION, SHALL MAKE THE INSPECTIONS SET FORTH IN SECTIONS C104.2.1 THROUGH C104.2.6. C104.2.1 FOOTING AND FOUNDATION INSPECTION
- C104.2.2 FRAMING AND ROUGH-IN INSPECTION C104.2.3 PLUMBING ROUGH-IN INSPECTION
- C104.2.4 MECHANICAL ROUGH-IN INSPECTION C104.2.5 ELECTRICAL ROUGH-IN INSPECTION
- C104.2.6 FINAL INSPECTION.
- C104.3 REINSPECTION.
- A BUILDING SHALL BE REINSPECTED WHEN DETERMINED NECESSARY BY THE CODE OFFICIAL. C104.5 INSPECTION REQUESTS.

IT SHALL BE THE DUTY OF THE HOLDER OF THE PERMIT OR THEIR DULY AUTHORIZED AGENT TO NOTIFY THE CODE OFFICIAL WHEN WORK IS READY FOR INSPECTION. IT SHALL BE THE DUTY OF THE PERMIT HOLDER TO PROVIDE ACCESS TO AND MEANS FOR INSPECTION OF SUCH WORK THAT ARE REQUIRED BY THIS CODE.

#### C104.7 APPROVAL

AFTER THE PRESCRIBED TESTS AND INSPECTIONS INDICATE THAT THE WORK COMPLIES IN ALL RESPECTS WITH THIS CODE, A NOTICE OF APPROVAL SHALL BE ISSUED BY THE CODE OFFICIAL

## CHAPTER 3, C303 - MATERIALS, SYSTEMS AND EQUIPMENT

SECTION C303 1 IDENTIFICATION, MATERIALS, SYSTEMS AND EQUIPMENT SHALL BE IDENTIFIED IN A MANNER THAT WILL ALLOW A DETERMINATION OF COMPLIANCE WITH THE APPLICABLE PROVISIONS OF THIS CODE

#### C303.1.1 - BUILDING THERMAL ENVELOPE INSULATION.

AN R-VALUE IDENTIFICATION MARK SHALL BE APPLIED BY THE MANUFACTURER TO EACH PIECE OF BUILDING THERMAL ENVELOPE INSULATION 12 INCHES OR GREATER IN WIDTH. ALTERNATELY, THE INSULATION INSTALLERS SHALL PROVIDE A CERTIFICATION LISTING THE TYPE, MANUFACTURER AND R-VALUE OF INSULATION INSTALLED IN EACH ELEMENT OF THE BUILDING THERMAL ENVELOPE. FOR BLOWN OR SPRAYED INSULATION (FIBERGLASS AND CELLULOSE) THE INITIAL INSTALLED THICKNESS SETTLED THICKNESS, SETTLED R-VALUE, INSTALLED DENSITY, COVERAGE AREA AND NUMBER OF BAGS INSTALLED SHALL BE LISTED ON THE CERTIFICATION. FOR SPRAYED POLYURETHANE FOAM (SPF) INSULATION, THE INSTALLED THICKNESS OF THE AREAS COVERED AND R-VALUE OF INSTALLED THICKNESS SHALL BE LISTED ON THE CERTIFICATION. FOR INSULATED SIDING. THE R-VALUE SHALL BE LABELED ON THE PRODUCT'S PACKAGE AND SHALL BE LISTED ON THE CERTIFICATION. THE INSULATION INSTALLER SHALL SIGN, DATE AND POST THE CERTIFICATION IN A CONSPICUOUS LOCATION ON THE JOB

C303.1.1.1 BLOWN OR SPRAYED ROOF/CEILING INSULATION. THE THICKNESS OF BLOWN-IN OR SPRAYED ROOF/CEILING INSULATION (FIBERGLASS OR CELLULOSE) SHALL BE WRITTEN IN INCHES ON MARKERS THAT ARE INSTALLED AT LEAST ONE FORE EVERY 300 SF THROUGHOUT THE ATTIC SPACE. THE MARKERS SHALL BE AFFIXED TO THE TRUSSES OR JOISTS AND MARKED WITH THE MINIMUM INITIAL INSTALLED THICKNESS WITH NUMBERS NOT LESS THAN 1 INCH IN HEIGHT. EACH MARKER SHALL FACE THE ATTIC ACCESS OPENING. SPRAY POLYURETHANE FOAM THICKNESS AND INSTALLED R-VALUE SHALL BE LISTED ON CERTIFICATION PROVIDED BY THE INSULATION INSTALLER.

- C30.1.2 INSULATION MARK INSTALLATION INSULATING MATERIALS SHALL BE INSTALLED SUCH THAT THE MANUFACTURER'S R-VALUE MARK IS READILY OBSERVABLE UPON INSPECTION. C303.1.3 FENESTRATION PRODUCT RATING
- U-FACTOR OF FENESTRATION PRODUCTS (WINDOWS, DOORS AND SKYLIGHTS) SHALL BE DETERMINED IN ACCORDANCE WITH NFRC 100.
  - EXCEPTION: WHERE REQUIRED, GARAGE DOOR U-FACTORS SHALL BE DETERMINED IN ACCORDANCE WITH EITHER NFRC 100 OR ANSI/DASMA 105.
- | INTERNATIONAL ENERGY CONSERVATION CODE (IDAHO) ENERGY CODE ANALYSIS
- 18 SCALE: NTS

THAN 6 INCHES BELOW GRADE. **C303.3 MAINTENANCE INFORMATION** AND TYPE OF PRODUCT.

C303.2 INSTALLATION

# C402.5.1 - AIR BARRIERS.

- MECHANICAL VENTILATION.
- THE INTEGRITY OF THE AIR BARRIER.

# 2178 SHALL COMPLY WITH THIS SECTION.

- THE PROVISIONS OF TABLE C402.5.2.



#### RECORD DRAWINGS

These record drawings have been prepared based on information gathered during field observations as well as information provided by others. The accuracy or completeness of information provided by others has not been verified by J-UB ENGINEERS, Inc. and/or B2 Architecture, Inc. The Architect shall not be held responsible for the accuracy or completeness of the information provided by the Contractor.

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U-FACTORS SHALL BE DETERMINED BY AN ACCREDITED, INDEPENDENT LABORATORY, AND LABELED AND CERTIFIED BY THE MANUFACTURER.

MATERIALS, SYSTEMS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE INTERNATIONAL BUILDING CODE.

C303.2.1 PROTECTION OF EXPOSED FOUNDATION INSULATION. INSULATION APPLIED TO THE EXTERIOR OF BASEMENT, CRAWL-SPACE WALLS AND THE PERIMETER OF SLAB-ON-GRADE FLOORS SHALL HAVE A RIGID, OPAQUE AND WEATHER-RESISTANT PROTECTIVE COVERING TO PREVENT THE DEGRADATION OF THE INSULATION'S THERMAL PERFORMANCE. THE PROTECTIVE COVERING SHALL COVER THE EXPOSED EXTERIOR INSULATION AND EXTEND NOT LESS

MAINTENANCE INSTRUCTIONS SHALL BE FURNISHED FOR EQUIPMENT AND SYSTEMS THAT REQUIRE PREVENTIVE MAINTENANCE. REQUIRED REGULAR MAINTENANCE ACTIONS SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ACCESSIBLE LABEL. THE LABEL SHALL INCLUDE THE TITLE OR PUBLICATION NUMBER FOR THE OPERATION AND MAINTENANCE MANUAL FOR THE PARTICULAR MODEL

#### CHAPTER 4. C402 - BUILDING ENVELOPE REQUIREMENTS

COMMERCIAL BUILDINGS ENVELOPE SHALL COMPLY WITH THE REQUIREMENTS OF SECTION C402 OTHER THAN APPROVED REVISIONS NOTED BELOW.

A CONTINUOUS AIR BARRIER SHALL BE PROVIDED THROUGHOUT THE BUILDING THERMAL ENVELOPE. THE AIR BARRIERS SHALL BE PERMITTED TO BE LOCATED ON THE INSIDE OR OUTSIDE OF THE BUILDING ENVELOPE, LOCATED WITHIN THE ASSEMBLIES COMPOSING THE ENVELOPE, OR ANY COMBINATION THEREOF. THE AIR BARRIER SHALL COMPLY WITH SECTIONS C402.5.1.1 AND C402.5.1.2. C402.5.1.1 - AIR BARRIER CONSTRUCTION. THE CONTINUOUS AIR BARRIER SHALL BE CONSTRUCTED TO COMPLY WITH THE FOLLOWING

THE AIR BARRIER SHALL BE CONTINUOUS FOR ALL ASSEMBLIES THAT ARE THE THERMAL ENVELOPE OF THE BUILDING AND ACROSS THE JOINTS AND ASSEMBLIES.

AIR BARRIER JOINTS AND SEAMS SHALL BE SEALED, INCLUDING SEALING TRANSITIONS IN PLACES AND CHANGES IN MATERIALS. THE JOINTS AND SEALS SHALL BE SECURELY INSTALLED IN OR ON THE JOINT FOR ITS ENTIRE LENGTH SO AS NOT TO DISLODGE, LOOSEN OR OTHERWISE IMPAIR ITS ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT AND

PENETRATIONS OF THE AIR BARRIER SHALL BE CAULKED, GASKETED OR OTHERWISE SEALED IN A MANNER COMPATIBLE WITH THE CONSTRUCTION MATERIALS AND LOCATION. JOINTS AND SEALS ASSOCIATED WITH PENETRATIONS SHALL BE SEALED IN THE SAME MANNER OR TAPED OR COVERED WITH MOISTURE VAPOR-PERMEABLE WRAPPING MATERIALS. SEALING MATERIALS SHALL BE APPROPRIATE TO THE CONSTRUCTION MATERIALS BEING SEALED AND SHALL BE SECURELY INSTALLED AROUND THE PENETRATION SO AS NOT TO DISLODGE, LOOSEN OR

OTHERWISE IMPAIR THE PENETRATIONS' ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT AND MECHANICAL VENTILATION. SEALING OF CONCEALED FIRE SPRINKLERS, WHERE REQUIRED, SHALL BE IN A MANNER THAT IS RECOMMENDED BY THE MANUFACTURER. CAULKING OR OTHER ADHESIVE SEALANTS SHALL NOT BE USED TO FILL VOIDS

BETWEEN FIRE SPRINKLER COVER PLATES AND WALLS OR CEILING. RECESSED LIGHTING FIXTURES SHALL COMPLY WITH SECTION C402.5.8. WHERE SIMILAR OBJECTS ARE INSTALLED WHICH PENETRATE THE AIR BARRIER, PROVISIONS SHALL BE MADE TO MAINTAIN

C402.4.1.2.1 MATERIALS. MATERIALS WITH AN AIR PERMEABILITY NO GREATER THAN 0.04 CFM/FT2 UNDER A PRESSURE DIFFERENTIAL OF 0.3 INCHES WATER GAUGE WHEN TESTED IN ACCORDANCE WITH ASTM E

C402.4.1.2.2 ASSEMBLIES. ASSEMBLIES OF MATERIALS AND COMPONENT WITH AN AVERAGE AIR LEAKAGE NOT TO EXCEED 0.04 CFM/FT2 UNDER A PRESSURE DIFFERENTIAL OF 0.3 INCHES WATER GAUGE WHEN TESTED IN ACCORDANCE WITH ASTM E 2357, ASTM E 1677 OR ASTM E 283 SHALL COMPLY WITH THIS

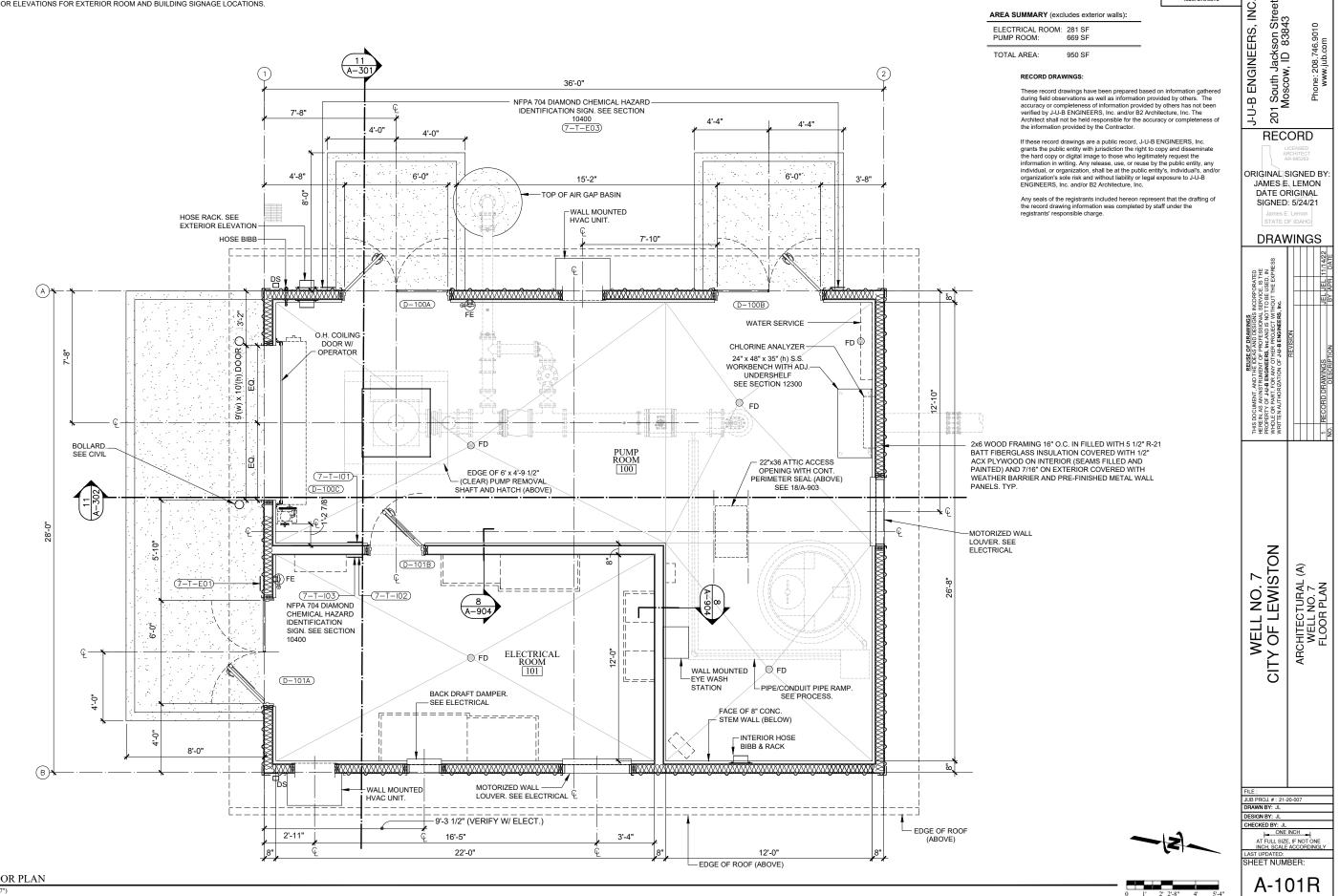
C402.5.2 AIR LEAKAGE OF FENESTRATION. THE AIR LEAKAGE OF FENESTRATION ASSEMBLIES SHALL MEET

	(JUB)						
Е 3	J-U-B ENGINEERS, INC.						
	J-U-B ENGINEERS, INC. 201 South Jackson Street Moscow ID 83843	Phone: 208.746.9010 www.jub.com					
	RECORD						
	JAMES E DATE OI SIGNED James E STATE C	. Lemon F IDAHO					
		VINGS					
	THIS DOCUMENT, AND TREUSE OF DRAWINGS HEREIN AS ANINSTRUMENT OF PROFESIONAL BERVICE, IS THE DECERN AS ANINSTRUMENT OF PROFESIONAL BERVICE, IS THE DECENT OF AUX OFTHER PROFESIONAL BERVICE, IN WHOLE OR PART, FOR ANY OFTHER PROLECT WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF JJJJE ENDINEERS, INC.	REVISION ECORD DRAWINGS DESCAPTION BY ARRI, DATE DESCAPTION					
	THIS PROF WHO WRIT	- N					
	WELL NO. 7 CITY OF LEWISTON	ARCHITECTURAL (A) BUILDING & ENERGY CODE ANALYSIS, BUILDING ENVELOPE REQUIRMENTS					
	FILE : JUB PROJ. # : 21-2 DRAWN BY: JL	20-007					
	DESIGN BY: JL CHECKED BY: JL						
	AT FULL SIZE INCH, SCALE LAST UPDATED: SHEET NUM	ACCORDINGLY					

A-001R

#### GENERAL NOTES:

- 1. ALL DIMENSION ARE TO FACE OF STUDS UNLESS NOTED OTHERWISE
- SEE EXTERIOR ELEVATIONS FOR ADDITIONAL OPENING LOCATIONS AND SIZES.
- 3. SEE STRUCTURAL, PROCESS, ELECTRICAL AND MECHANICAL FOR ADDITIONAL INFORMATION AND CONSTRUCTION REQUIREMENTS. SEE SITE CIVIL FOR FINISH ELEVATIONS AROUND EXTERIOR PERIMETER OF BUILDING AND STRUCTURAL FOR INTERIOR ELEVATIONS.
- 5. SEE EXTERIOR ELEVATIONS FOR EXTERIOR ROOM AND BUILDING SIGNAGE LOCATIONS.



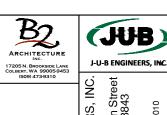
## LEGEND:

DS = GUTTER DOWNSPOUT

FE = FIRE EXTINGUISHER. SEE 19/A-903

#### AREA SUMMARY (excludes exterior walls):

ELECTRICAL ROOM:	281 SF
PUMP ROOM:	669 SF



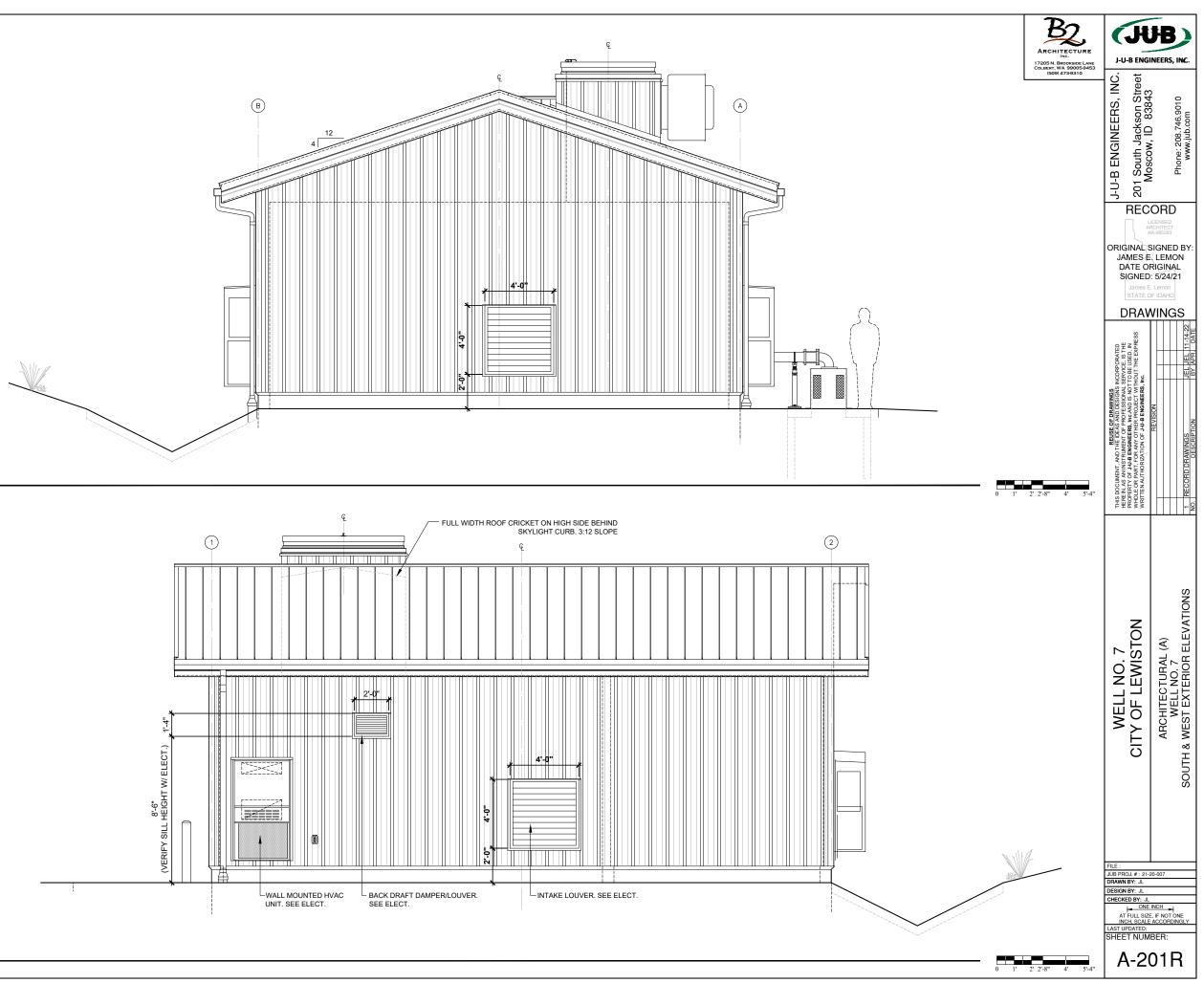
- GENERAL ELEVATION NOTES: 1. SEE MANUFACTURER'S PRODUCT AND COLOR SCHEDULE ALONG WITH ROOM AND MISCELLANEOUS ITEM FINISH SCHEDULE ON SHEET A-901 FOR MATERIAL AND COLORS.
- 2. SEE STRUCTURAL, PROCESS, ELECTRICAL AND MECHANICAL FOR ADDITIONAL INFORMATION AND CONSTRUCTION REQUIREMENTS.

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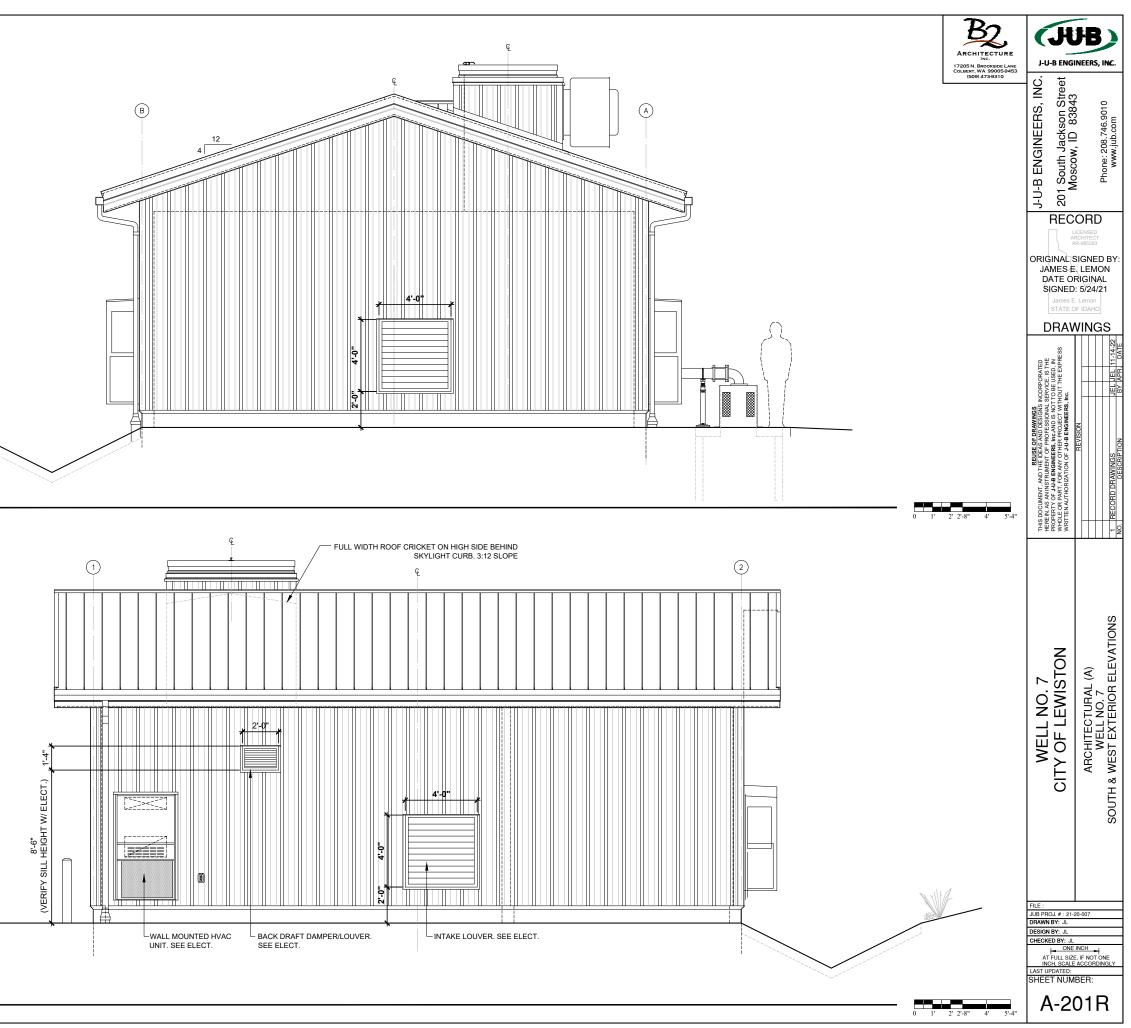
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# 6 EXTERIOR ELEVATION - NORTH

SCALE: 3/8" = 1'-0" (3/16" on 11" x 17")



#### GENERAL ELEVATION NOTES:

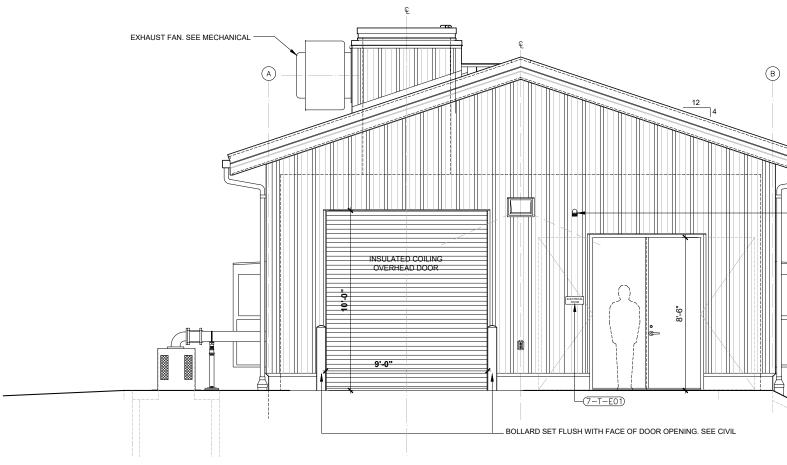
- SEE MANUFACTURER'S PRODUCT AND COLOR SCHEDULE ALONG WITH ROOM AND MISCELLANEOUS ITEM FINISH SCHEDULE ON SHEET A-901 FOR MATERIAL AND COLORS.
- 2. SEE STRUCTURAL, PROCESS, ELECTRICAL AND MECHANICAL FOR ADDITIONAL INFORMATION AND CONSTRUCTION REQUIREMENTS.

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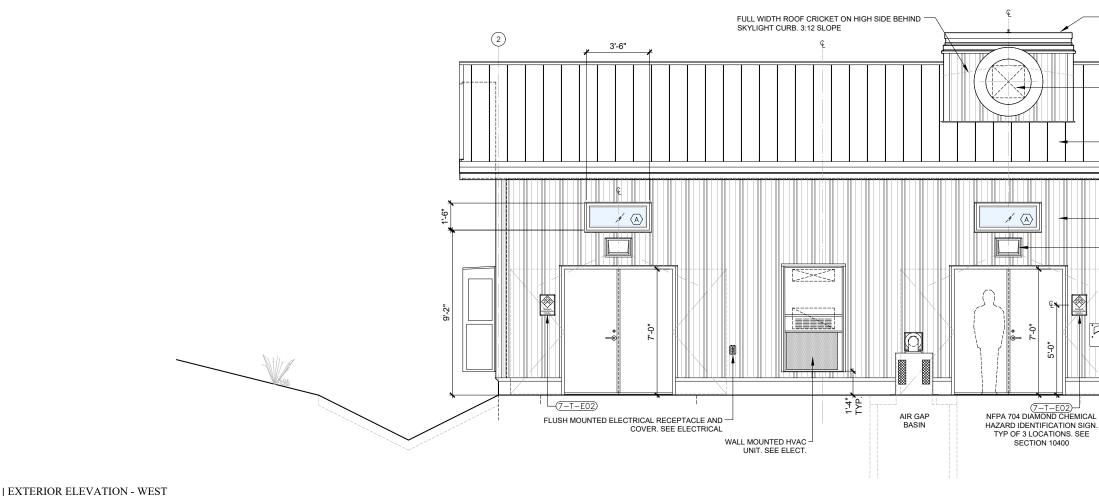
Any seals of the registrants included hereon represent that the drafting of the record drawing information was completed by staff under the registrants' responsible charge.

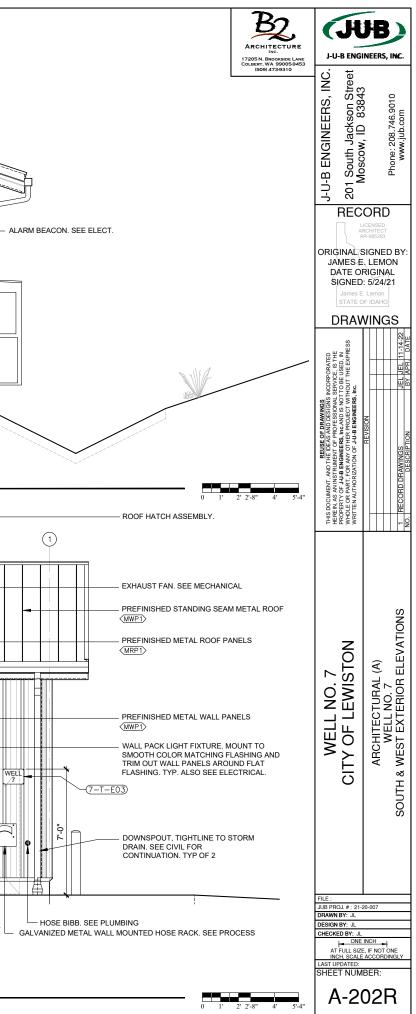


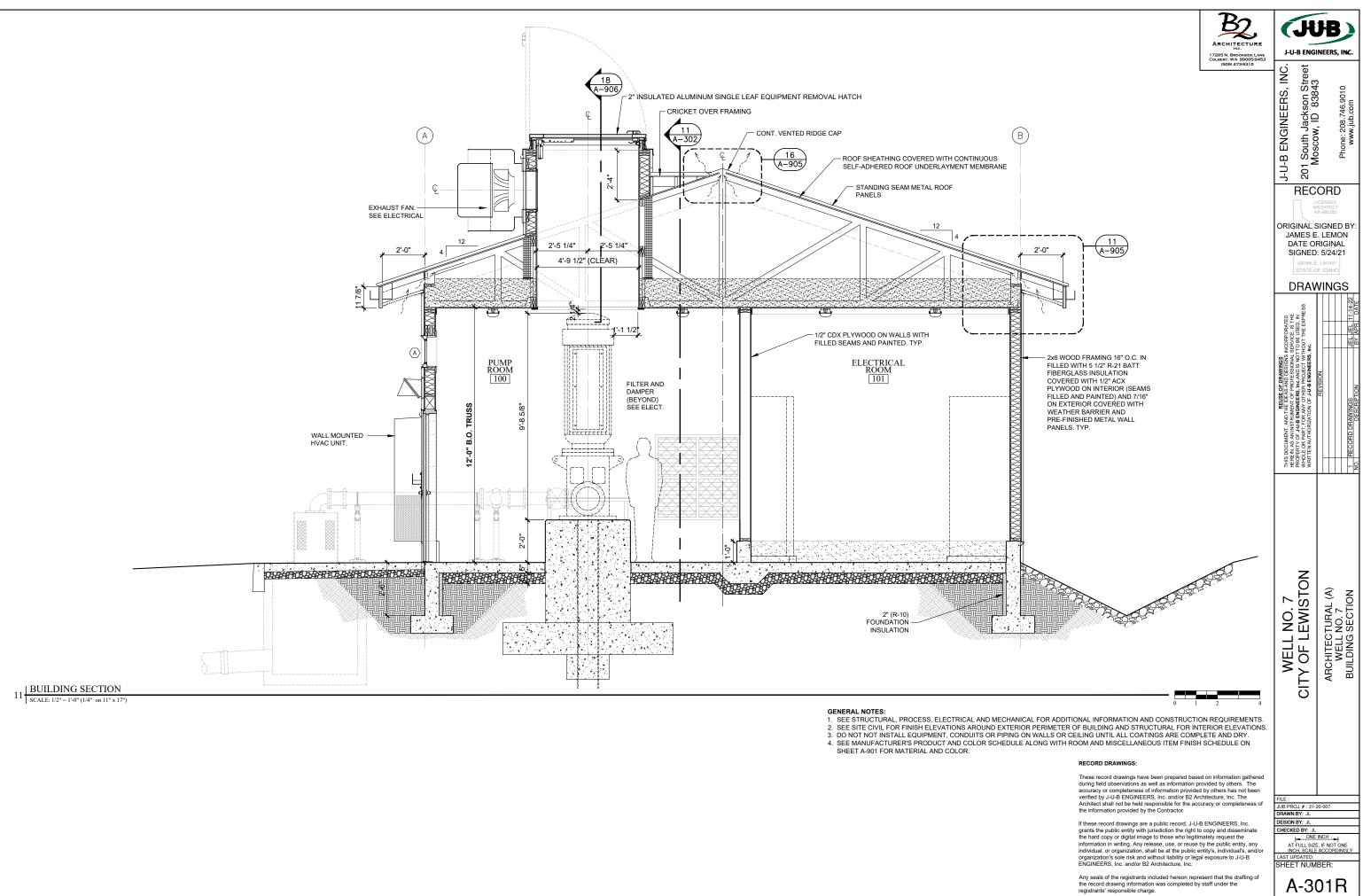
## 6 EXTERIOR ELEVATION - SOUTH

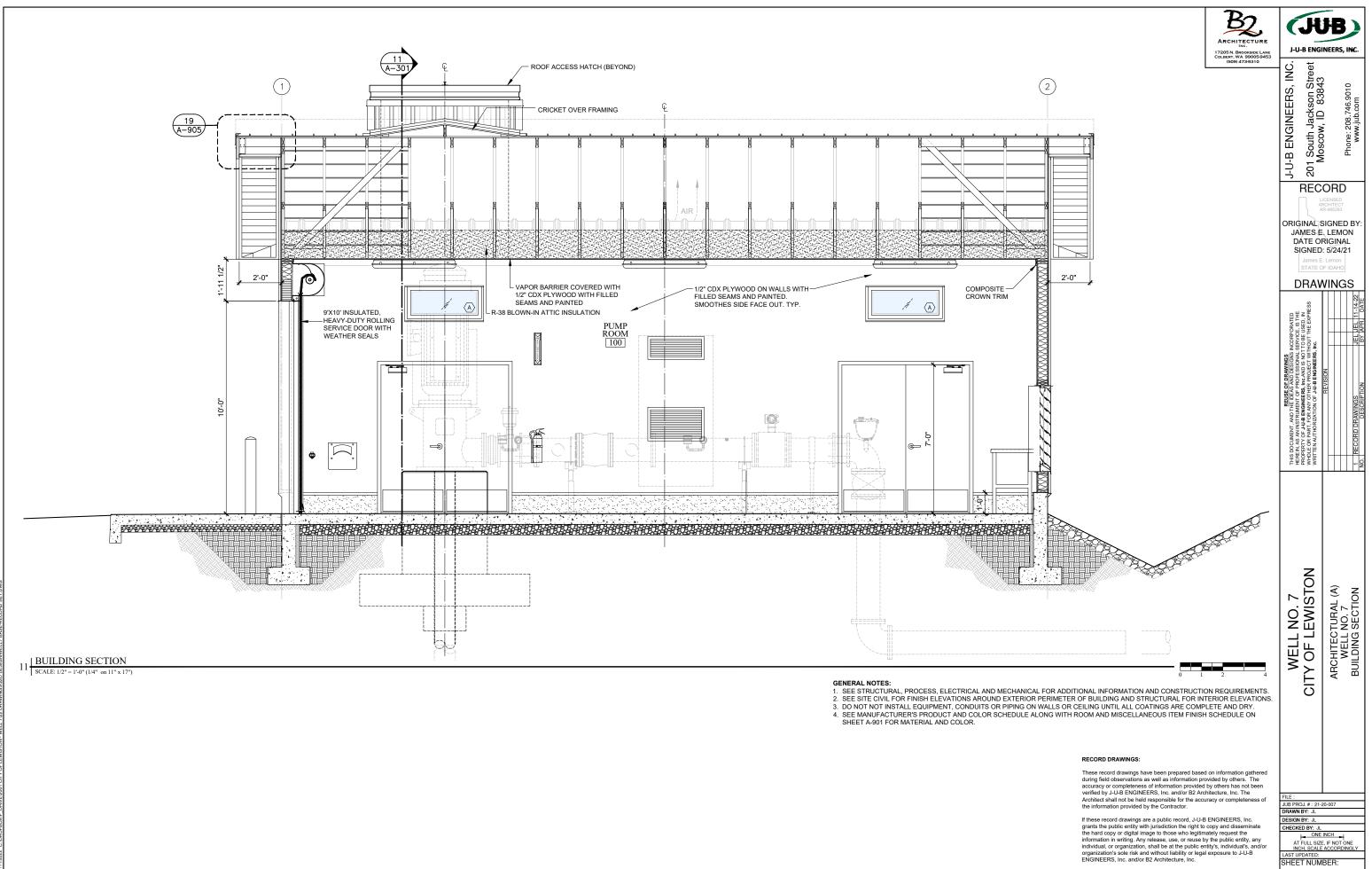
SCALE: 3/8" = 1'-0" (3/16" on 11" x 17")

16 SCALE: 3/8" = 1'-0" (3/16" on 11" x 17")









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- 1. ALL WORK, INCLUDING MATERIALS & WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF LOCAL, STATE, & FEDERAL APPLICABLE CODES LAWS, AND ORDINANCES INCLUDING THE 2018 I-CODES
- 2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY CONDITIONS WHERE THE INTENT OF THE DRAWINGS IS IN DOUBT, OR THERE IS A DISCREPANCY BETWEEN FIELD CONDITIONS AND THE DOCUMENTS.
- 3. SAFETY OF ALL PARTIES PRESENT ON THE JOB SITE IS THE RESPONSIBILITY OF THE CONTRACTOR
- 4. THE USE OF DRAWINGS AND SPECIFICATIONS IS FOR THE PROPOSED SITE ONLY AND THEY ARE THE PROPERTY OF THE ARCHITECT. COPYRIGHT PRIVILEGES ARE MAINTAINED AND NO REPRODUCTION OR REUSE IS ALLOWED WITHOUT PERMISSION
- IN THE EVENT OF INCONSISTENCY WITHIN THE DRAWINGS THE MORE COSTLY OR RESTRICTIVE SHALL APPLY. 5.
- 6. ALL MATERIALS TO BE NEW UNLESS NOTED OTHERWISE.
- 7. ALL DETAILS, SECTION, NOTES OR REFERENCE TO OTHER DRAWINGS ARE FOR CONVENIENCE AND ARE INTENDED TO BE TYPICAL. THESE REFERENCES SHALL APPLY TO SIMILAR CONDITIONS ELSEWHERE, UNLESS NOTED OTHERWISE.
- 8. LARGEST SCALE DRAWINGS SHALL GOVERN OVER SMALLER SCALE DRAWINGS
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY TO ALL PARTIES PRESENT DURING BUILDING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING AND BRACING TO INSURE SUCH SAFETY.
- 10. DURING CONSTRUCTION, AND PRIOR TO THE INCORPORATION OF ANY CHANGES, REVISIONS, MODIFICATIONS, AND.OR DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS, CONTRACTOR SHALL BRING TO THE ATTENTION OF, AND OBTAIN APPROVAL FROM THE ARCHITECT AND THE GOVERNING BUILDING OFFICIAL BEFORE PROCEEDING WITH THE WORK
- ALL MATERIALS LISTED SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS/SPECIFICATIONS AND APPLICABLE CODE REQUIREMENTS. 11.
- 12. CONTRACTOR SHALL VERIFY ALL PROJECT MATERIALS/FINISHES/COLORS AND LOCATIONS WITH OWNER/ARCHITECT PRIOR TO PURCHASE/INSTALLATION
- 13. PROVIDE OPERATION AND MAINTENANCE DATA MANUALS FOR EQUIPMENT AND MATERIAL SPECIFIED BY THE ARCHITECT.
- 14. ALL SCHEDULES CONTAINED IN THIS CONSTRUCTION SET OF DRAWINGS ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL SUPPLIED INFORMATION AND ACTUAL CONDITIONS PRIOR TO ORDERS, FABRICATION OR INSTALLATION AS REQUIRED TO COMPLETE THE PROJECT.
- 15. VERIFY ALL WALL OPENING DIMENSIONS WITH APPROVED PIPING, MECHANICAL AND PLUMBING SUBMITTALS.
- 16. SEE ENERGY CONSERVATION CODE NOTES FOR ADDITIONAL REQUIRED CONSTRUCTION MEANS AND METHODS.

## | GENERAL ARCHITECTURAL NOTES 6 SCALE: NTS

1									
	>		STYLE						
MAT		MANUFACTURE'S NAME	NAME	NUMBER					
WEL	WELL #3								
CS1	CONCRETE SEALER (FLOORS)	SEE SPECS	SEE SPECS	-	CLEAR	-	N/A		CS1
CT1	COMPOSITE TRIM	SEE SPECS	SEE SPECS	-	PT2	-	N/A		CT1
FRP1	FIBERGLASS REINFORCED WALL PANELS	SEE SPECS	SEE SPECS	-	WHITE	-	N/A	FULLY ADHERED, NOT EXPOSED FASTENERS, EDGE AND JOINT MOLDING TO MATCH FRP PANEL COLOR, @ SINK AREA	FRP1
MF1	PREFINISHED METAL FLASHING	SEE SPECS	SEE SPECS & DWGS	-	EXTERIOR COLOR MATCH MRP1	-	N/A	FASCIA"J" METAL, MISC FLASHING, INTERIOR FLASHING TO MATCH INTERIOR WALL COLOR	MF1
MRP1	METAL ROOF PANELS	MATAL SALES	VERTICAL SEAM	24 GAUGE	MEDIUM BRONZE	H4	1 3/4" RIB x 16" WIDE	SEE ROOF DETAILS FOR ADDITONAL REQUIREMENTS. FIELD VERIFY COLOR SPECIFIED MATCHED WELL #5 ROOF/TRIM COLOR	MRP1
MSP1	PREFINISHED METAL SOFFIT PANELS	METAL SALES	SOFFIT PANEL LANCED	24 GA, V-GROOVE	MEDIUM BRONZE	H4	1" DEEP x 12" WIDE	24-GA, V-GROOVE, HALF VENT PERFORATED PANELS FOR VENTILATION	MSP1
MWP1	PREFINISHED METAL WALL PANELS	METAL SALES	PBR	24 GAUGE	PARCHMENT	W74	1 1/4" x 36" WIDE		MWP1
PT1	PAINT	SHERWIN-WILLIAMS	SEE SPECS	-	COLOR MATCH VINYL WIN. FRAME	CUSTOM MATCH	N/A	METAL DOORS, METAL DOOR FRAMES. SEE 09910 FOR COATING SYSTEM TO USE BASED ON BASE MATERIAL, COLOR MATCH VINYL WINDOW FRAME COLOR	PT1
PT2	PAINT	SHERWIN-WILLIAMS	SEE SPECS	-	WHITE	-	N/A	INTERIOR WALLS, CEILING, CROWN TRIM	PT2

TO PRIMING AND PAINTING. SEE SECTION 07920, TYPE 4 FOR JOINT AND HOLE FILLER/SEALANT

1. FOR MATERIALS THAT DO NOT HAVE A COATING SYSTEM IDENTIFIED IN THE ROOM FINISH SCHEDULE OR ELSEWHERE, REFER TO APPLICABLE COATING SYSTEM IDENTIFIED IN SECTION 09910 - ARCHITECTURAL PAINT AND COATINGS. 2. COLOR AND FINISH SAMPLES SUBMITTED ELECTRONICALLY, SUCH AS PHOTOS, SCANS, ETC. WILL NOT BE ACCEPTED. SAMPLES MUST BE SUBMITTED IN HARD COPY FORMAT TO ARCHITECT AND 2ND SAMPLE TO OWNER FOR REVIEW AND APPROVAL. 3. SECTION 09910: COATING SYSTEM (PREP, PRIMER AND FINAL) DEPENDENT ON BASE MATERIAL. LOOK UP BASE MATERIAL IN SECTION 09910,2.04 AND 2.05 FOR COATING (NOT COLOR) SYSTEMS TO USE. COLOR PER ROOM AND ABOVE COLOR SCHEDULE.

4. ALL EXTERIOR COLOR LOCATIONS TO MATCH LOID WELL #5. SEE EXISTING WELL #5 PHOTO SHOWN ON SHEET A-201.

I MANUFACTURER'S PRODUCT AND COLOR SCHEDULE

### ROOM FINISH SCHEDULE

	B.O.T = BOTTOM OF TRUSS																	
ROOM		A				WALL SUBSTRATE			WALL FINISH			WALL COATING SYSTEM		CEILING		CEILING COATING SYSTEM		
	NO.		FLOOR	BASE	NORTH	EAST	SOUTH	WEST	NORTH	EAST	SOUTH	WEST	(SEE 09910)	MATERIAL	FINISH	HEIGHT	COATING STSTEN	REMARKS
	100	ELECTRICAL ROOM	SEALED CONC.	CONC.	PLYWOOD	PLYWOOD	PLYWOOD	PLYWOOD	PT2	PT2	PT2	PT2	INT-PLY-1	PLYWOOD	PT2	14'-0"	PRODUCT SPECS	PAINT PLYWOOD WALLS DOWN
	101	PUMP ROOM	SEALED CONC.	CONC.	PLYWOOD	PLYWOOD	PLYWOOD	PLYWOOD	PT2	PT2	PT2	PT2	INT-PLY-1	PLYWOOD	PT2	14'-0"	PRODUCT SPECS	PAINT PLYWOOD WALLS DOWN
	4. INSTALL 1/2" CDX INTERIOR PLYWOOD SHEATHING WITH BEST SIDE FACING TOWARD INTERIOR (EXPOSED) ROOM SIDE. SEAL ALL SEAMS & FASTENER HOLES PRIOR																	

GENERAL NOTES

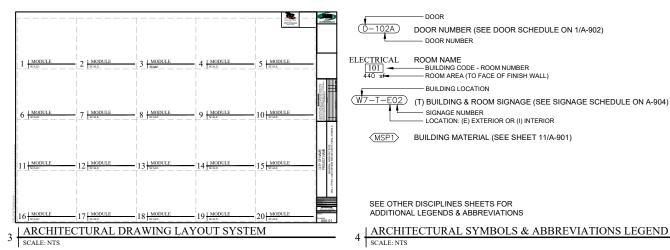
SCHEDULES ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE FROM PLANS, SECTIONS, ISOMETRICS, DETAILS AND SPECIFICATIONS, THE REQUIRED QUANTITY AND QUALITY OF EQUIPMENT AND MATERIALS TO COMPLETE THE PROJECT.
 DO NOT SURFACE MOUNT ANY EQUIPMENT, CONDUITS OR PIPING ON WALLS OR CEILING UNTIL ALL COATINGS ARE COMPLETE AND DRY.

3. DO NOT INSTALL DOOR HARDWARE, UNTIL ALL DOOR FRAME AND DOOR LEAFS ARE COMPLETE AND DRY (NO MASKING ALLOWED).

	FINISH	COATING SYSTEM (09910)	MANUFACTURER'S NAME	REMARKS			
METAL DOORS - INTERIOR FACE	PT1	INT-S-1	SEE SPECIFICATIONS				
METAL DOORS - EXTERIOR FACE	PT1	EXT-S-1	SEE SPECIFICATIONS				
COILING OVERHEAD DOOR (EXTERIOR)	MFR ( MATCH VINYL WINDOW FRAME )	MFR	SEE SPECIFICATIONS	EXTERIOR FINISH TO COLOR MATCH VINYL WINDOW COLOR			
VINYL WINDOWS (MILGARD - VINYL)	MFR (SAND)	MFR	SEE SPECIFICATIONS				
EXTERIOR FACE OF ALL LOUVERS	MFR (COLOR TO MATCH MRP1)	MFR					
COMPOSITE INTERIOR CROWN TRIM	PT2	INT-T-1	SEE SPECIFICATIONS				
PREFINISHED GUTTERS	MFR (COLOR TO MATCH ROOF PANELS)	MFR	SEE SPECIFICATIONS				
PREFINISHED DOWNSPOUTS	MFR (COLOR TO MATCH WALL PANELS)	MFR	SEE SPECIFICATIONS				

## ROOM AND MISCELLANEOUS ITEM FINISH SCHEDULE

SCALE: NTS





SIGNAGE SCHEDULE ON A-904)	
R	

FD FF GWB MF GYPSUM WALL BOARD PREFINISHED METAL FLASHING METAL ROOF PANEL MRP MSP PREFINISHED METAL SOFFIT PANE NTS NOT TO SCALE PEMB PRE-ENGINEERED METAL BUILDING PREFIN PREFINISH(ED) PT PAINT RO SIM ROUGH OPENING SIMILAR TYP TYPICAL UNLESS NOTED OTHERWISE UNO WATER REPELLENT WR

#### RECORD DRAWINGS

CMU

CS DS

These record drawings have been prepared based on information gathere during field observations as well as information provided by others. The curring ineru observations as well as information provided by others. The accuracy or completeness of information provided by others has not been verified by J-U-B ENGINEERS, Inc. and/or B2 Architecture, Inc. The Architect shall not be held responsible for the accuracy or completeness of the information provided by the Contractor.

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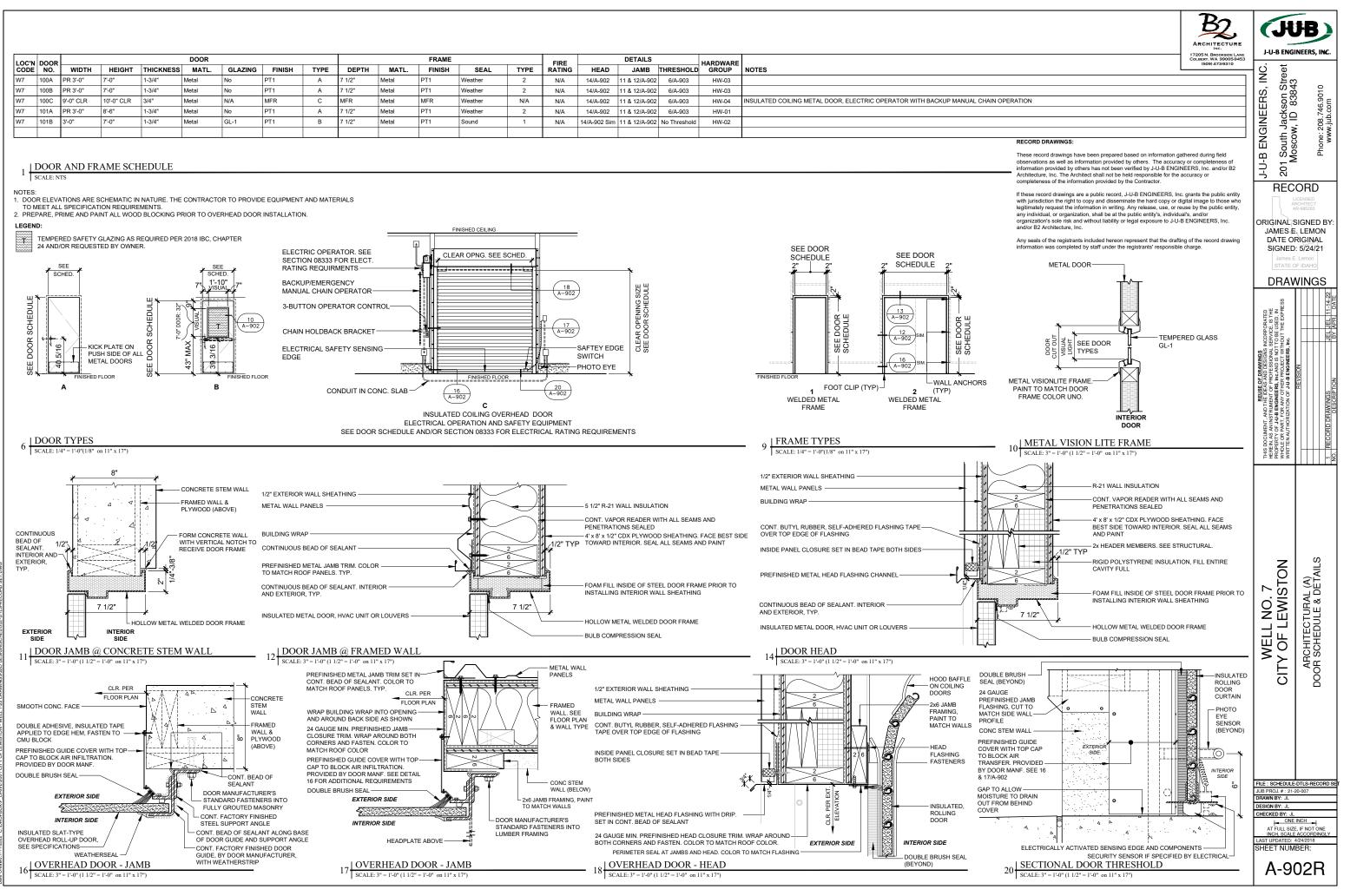
Any seals of the registrants included hereon represent that the drafting of the record drawing information was completed by staff under the registrants' responsible charge.

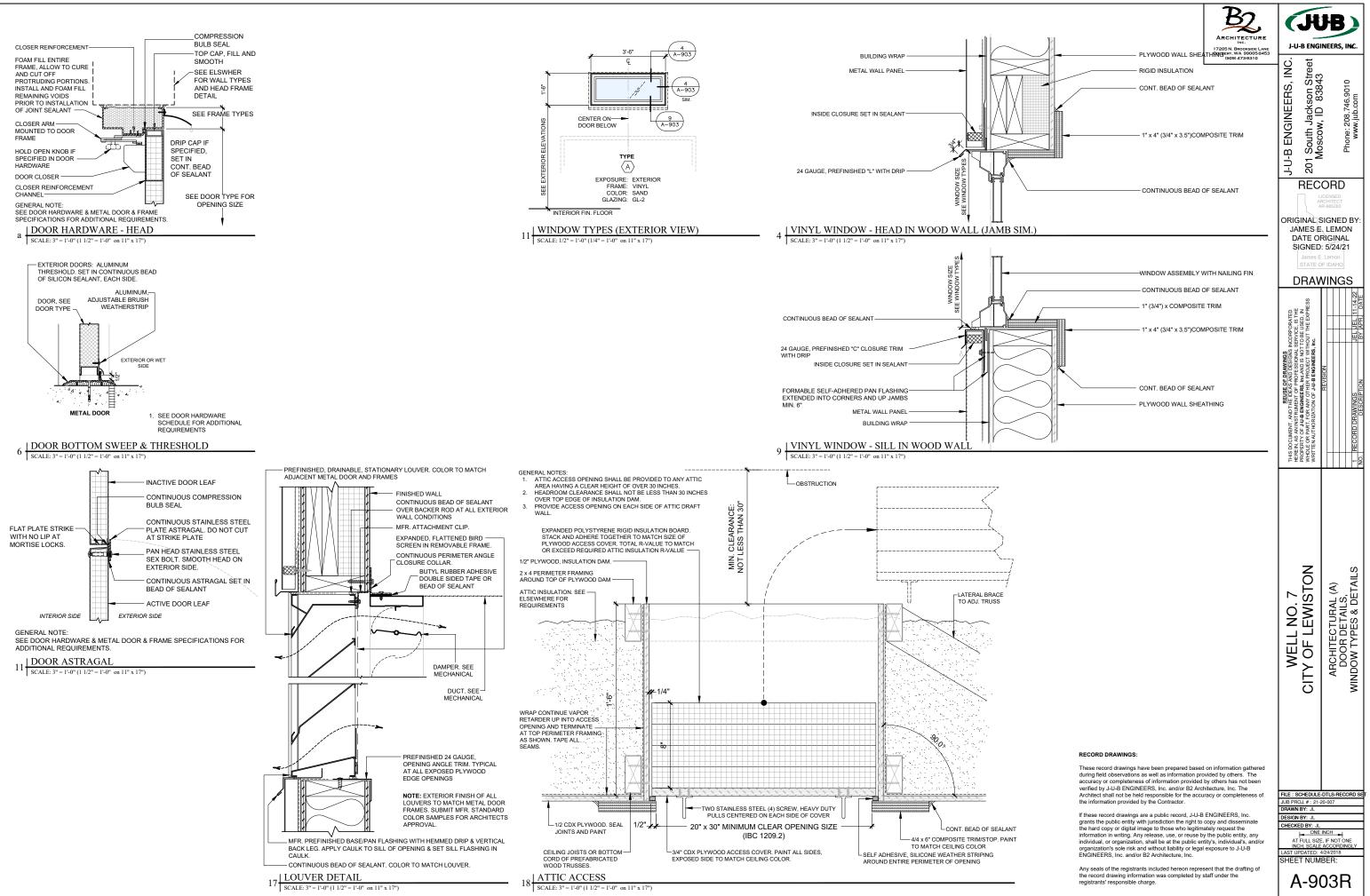
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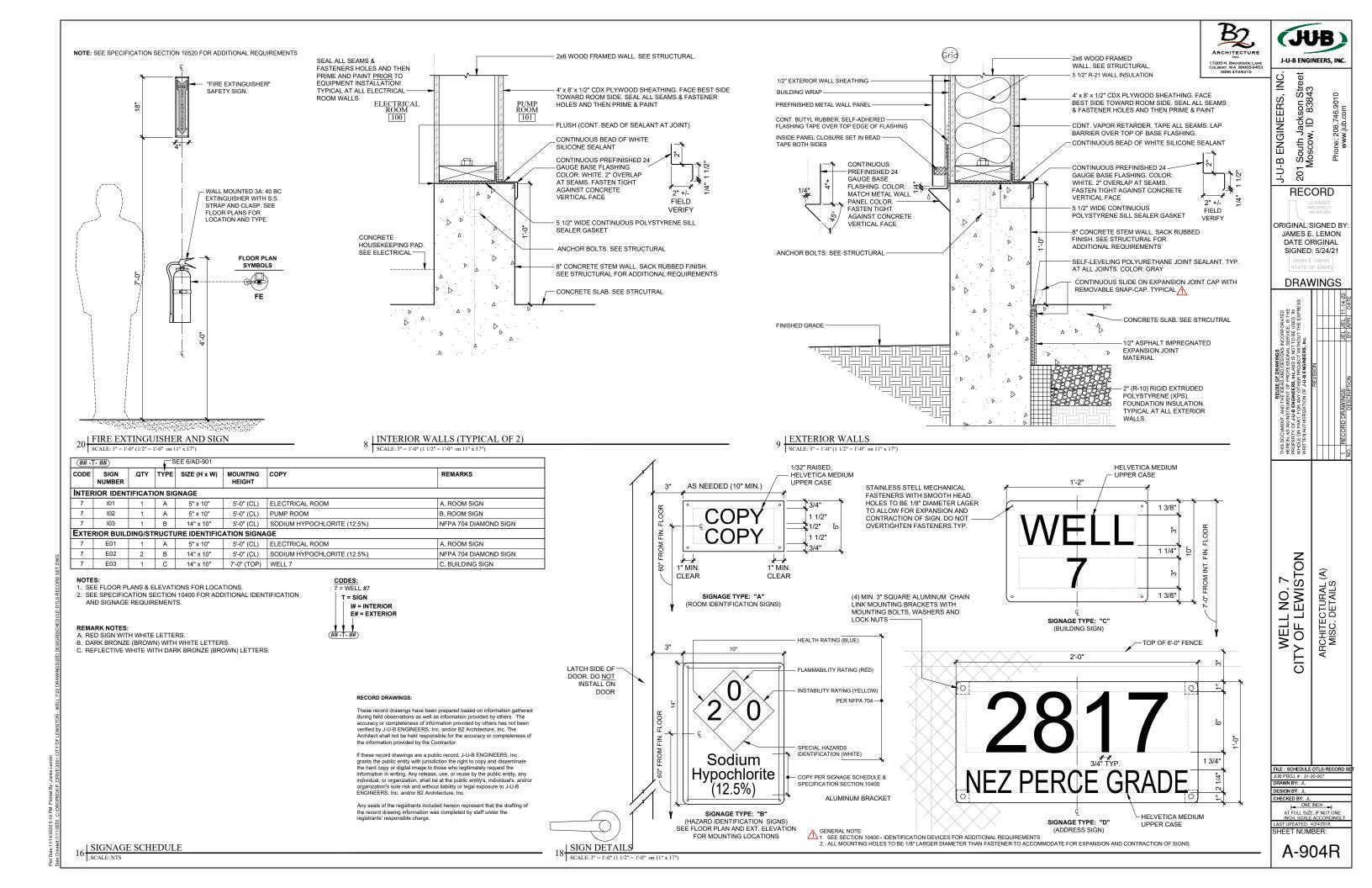
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NE 153	J-U-B ENG	NEERS, INC.				
≣L G	J-U-B ENGINEERS, INC.	Phone: 208.746.9010 www.jub.com				
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d	James E STATE C	E Lemon DF IDAHO				
	DRAV	VINGS				
or	ACORPORATED ERVICE, IS THE TO BE USED, IN AUT THE EXPRESS <b>NC.</b>	JEL JEL 11-14-22 BY APR, DATE				
	REUSE OF DRAWINGS THIS DOCUMENT, AND THE IDES AND DESIONS MOOP OPATED HEREIN, AS ANI NISTRUMENT OF PROFESSIONAL SERVICE. IS THE PROPERTY OF JUAP BRONERES, IN G.A.ADIS IS NOTTO DE LUSE.) IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF JUJB ENDINEERS, INC.	REVISION RECORD DRAWINGS NO. DESCRIPTION				
	WELL NO. 7 CITY OF LEWISTON	ARCHITECTURAL (A) GENERAL NOTES, MANF. PRODUCT & COLOR SCHEDULE, ROOM & MISC. SCHEDULE				
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-	A-901R					

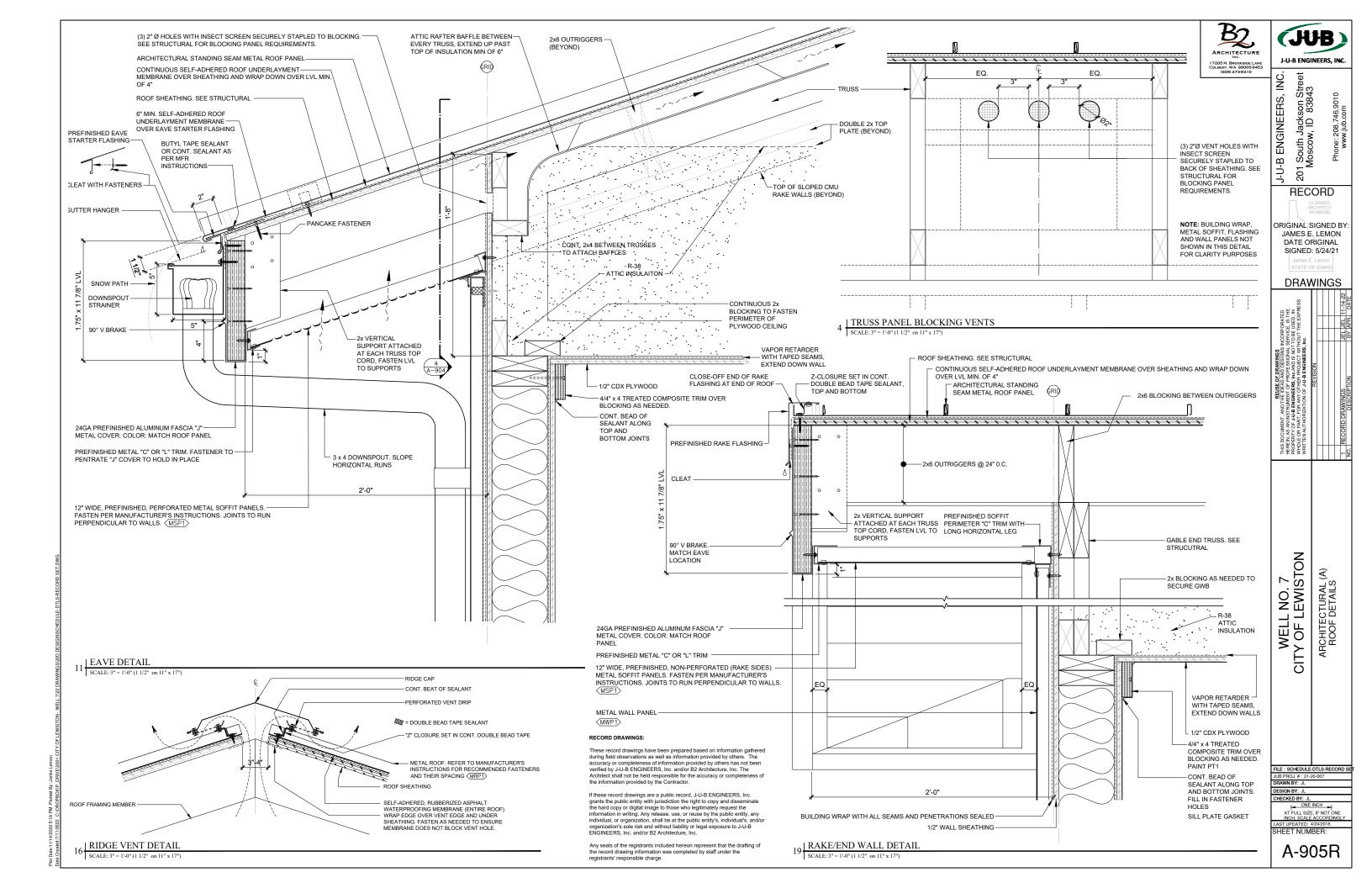
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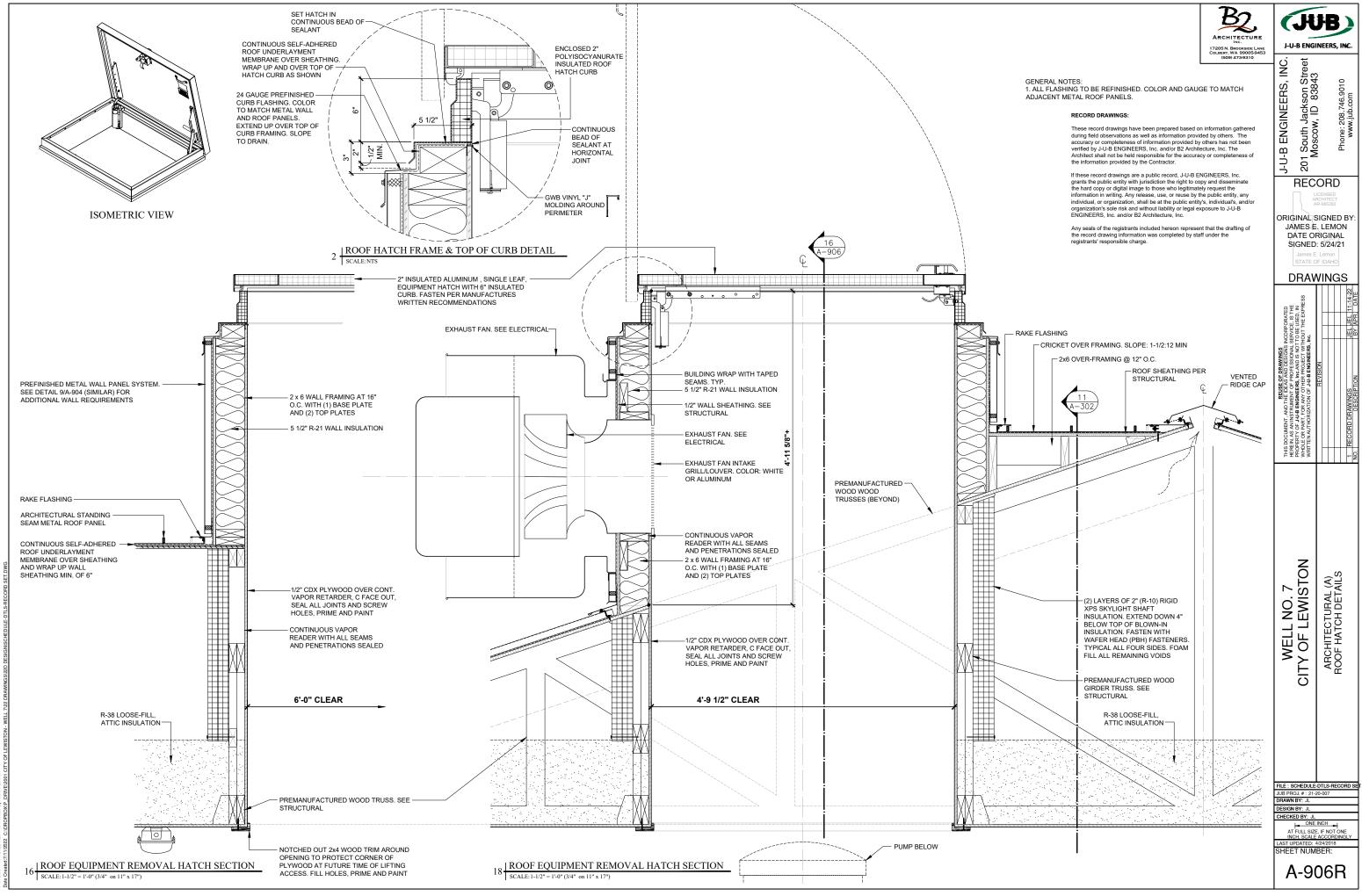
<sup>11</sup> SCALE: NTS



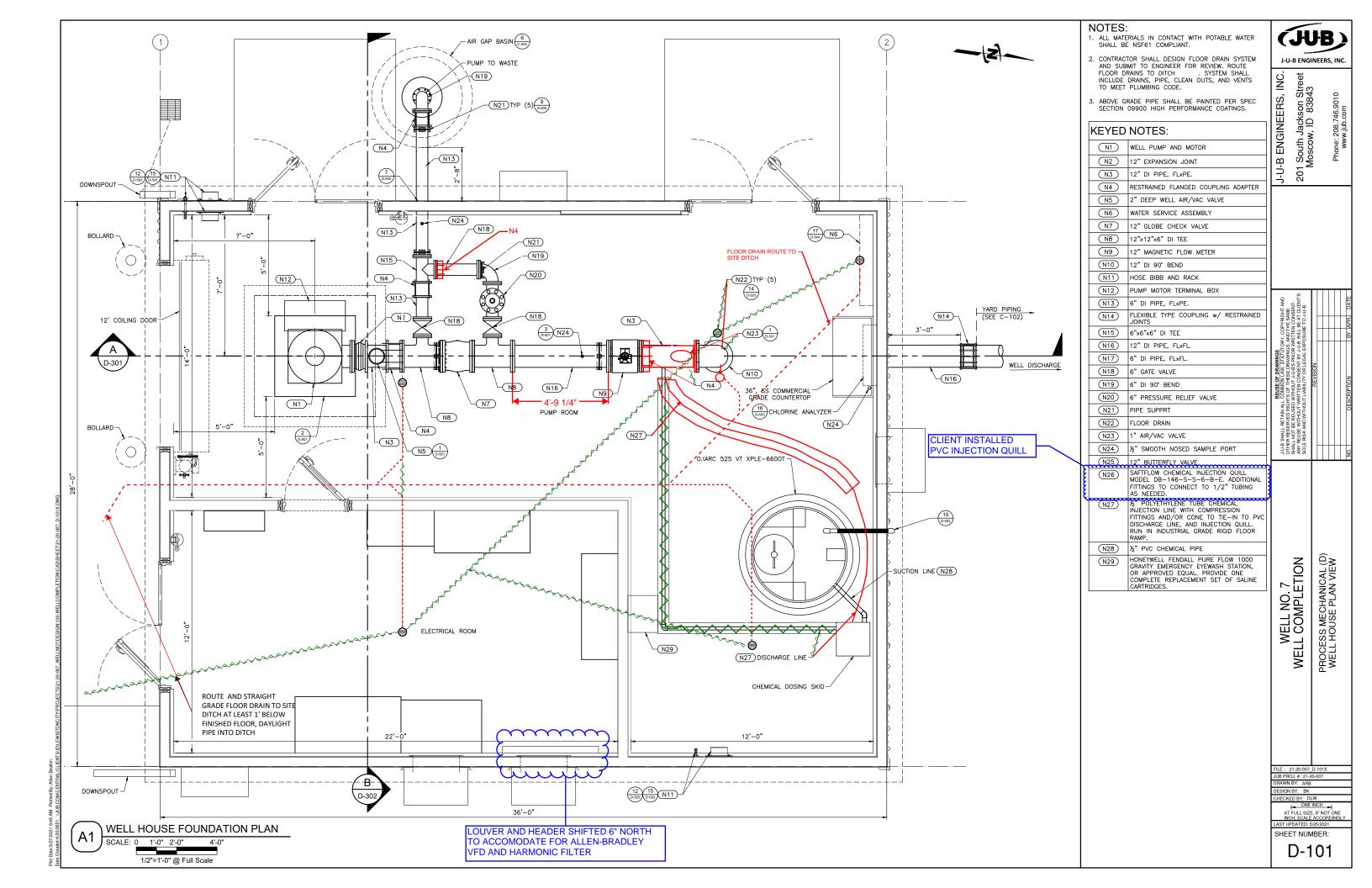


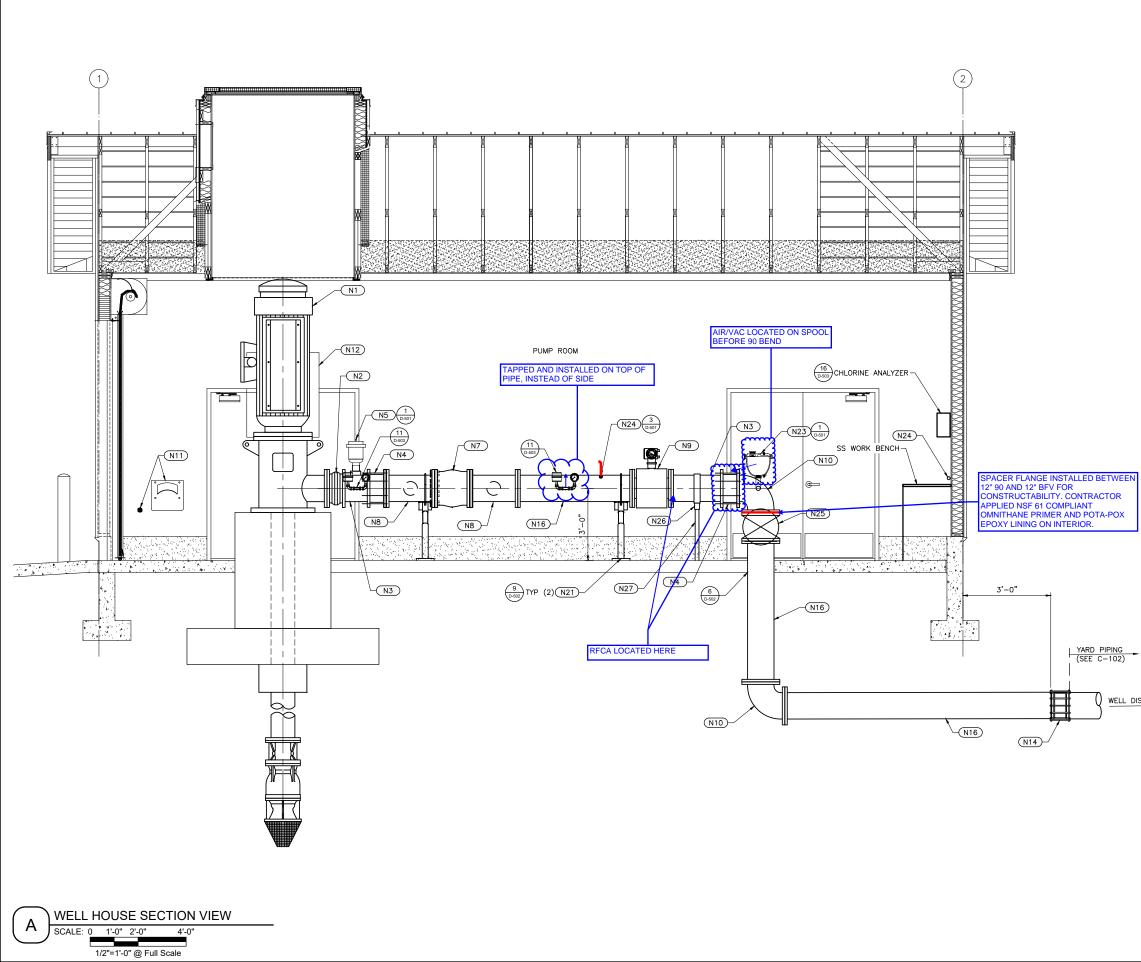






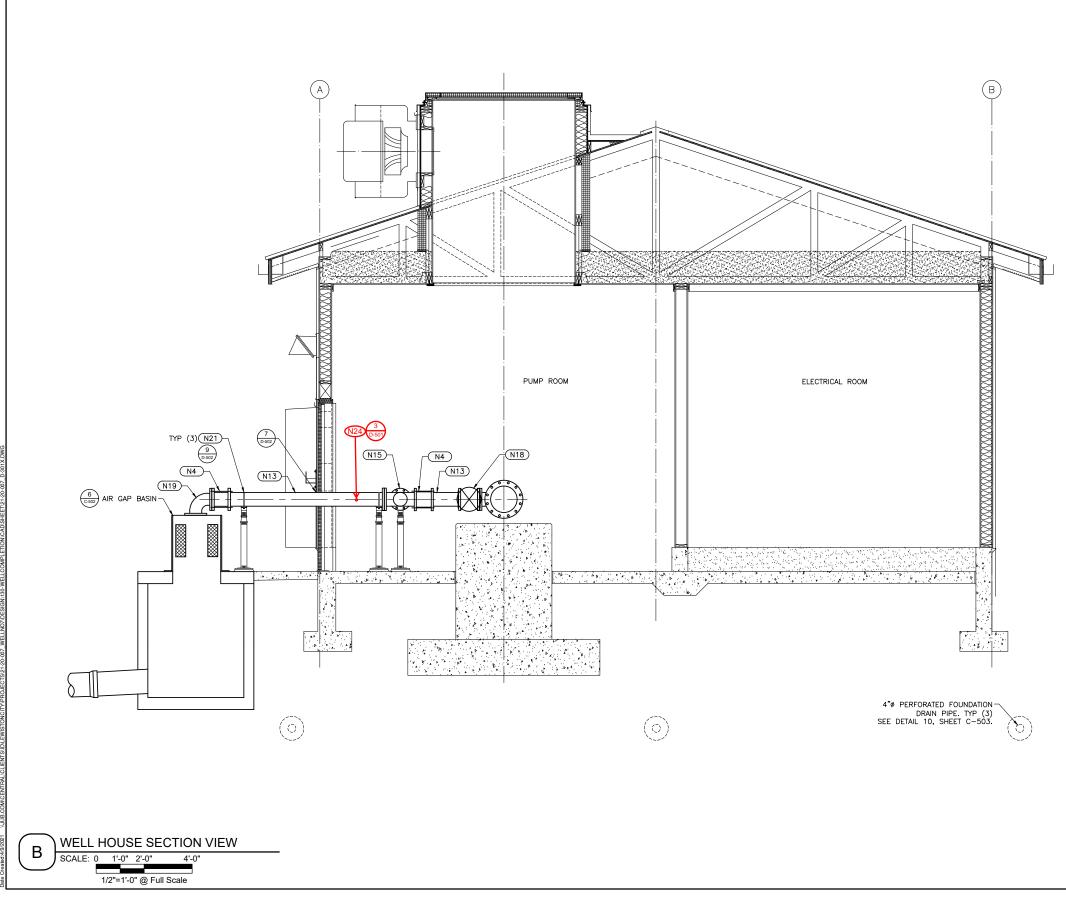






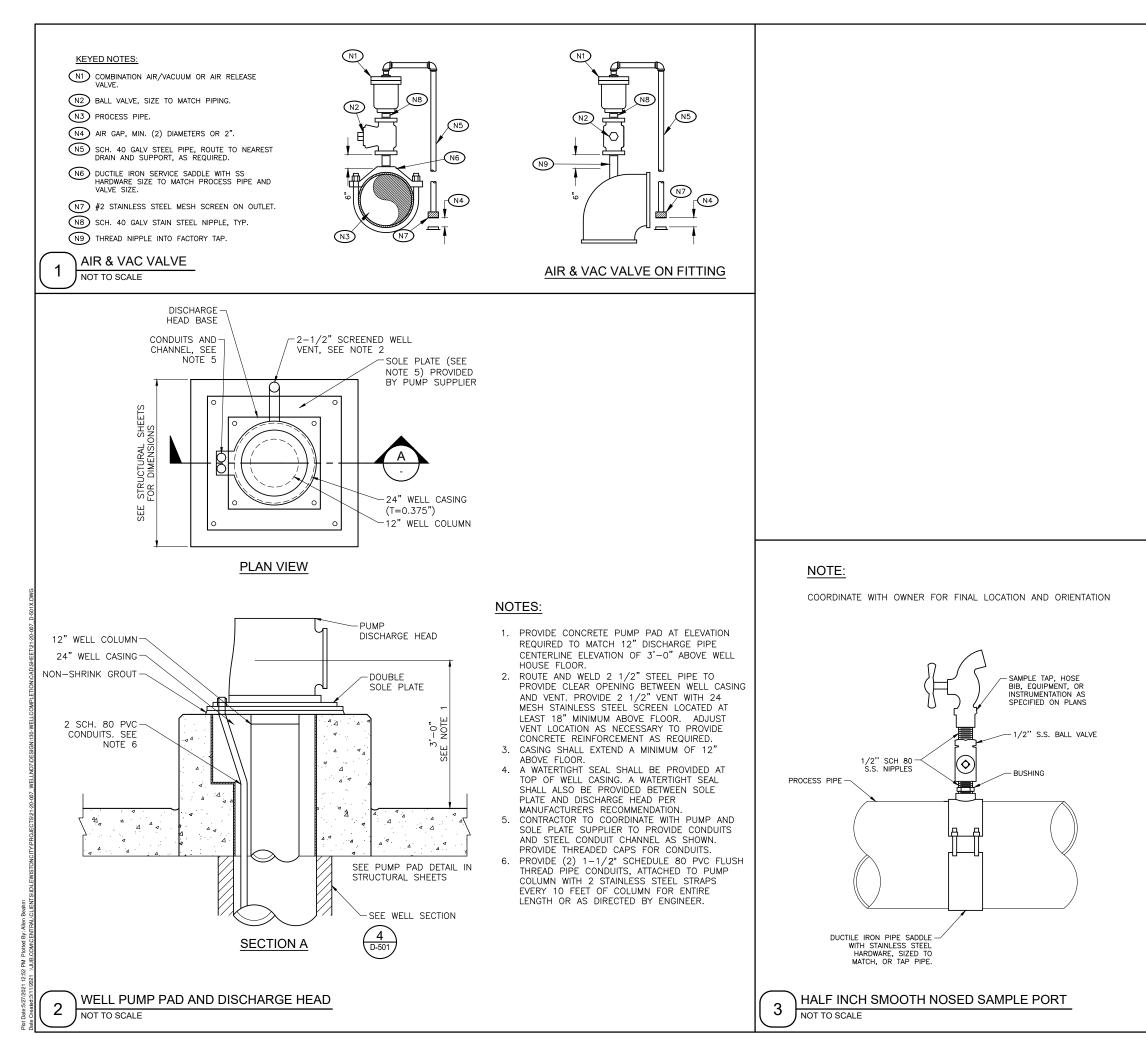
	RIALS IN CONTACT WITH POTABLE WATER SSF61 COMPLIANT.	6	H	JE	V
AND SUB	FOR SHALL DESIGN FLOOR DRAIN SYSTEM MIT TO ENGINEER FOR REVIEW. ROUTE RAINS TO CATCH BASIN. SYSTEM SHALL	J-U-I	B ENGI		5, INC
INCLUDE	DRAINS, PIPE, CLEAN OUTS, AND VENTS PLUMBING CODE.	, INC	Street	2	0
	RADE PIPE SHALL BE PAINTED PER SPEC 09900 HIGH PERFORMANCE COATINGS.	J-U-B ENGINEERS, INC	201 South Jackson Street Moscow ID 83843		Phone: 208.746.9010
KEYED	NOTES:	GIN	h Jac	Ĩ	ne: 208.746.9
<u>N1</u>	WELL PUMP AND MOTOR		outl		hone
N2	12" EXPANSION JOINT	E E E	ຼິ≥		۵.
N3	12" DI PIPE, FLxPE.	13	20		
(N4)	RESTRAINED FLANGED COUPLING ADAPTER				
(N5)	2" DEEP WELL AIR/VAC VALVE				
(N6)	WATER SERVICE ASSEMBLY				
(N7)	12" GLOBE CHECK VALVE				
	12"x12"x6" DI TEE				
(N9)	12" MAGNETIC FLOW METER				
(N10)	12" DI 90" BEND				
(N11) (N12)	HOSE BIBB AND RACK				
(N12)	PUMP MOTOR TERMINAL BOX	9	NT'S		
(N13)	6" DI PIPE, FLxPE. FLEXIBLE TYPE COUPLING w/ RESTRAINED	REUSE OF DRAWINGS JUJB SHALL RETAIN ALL COMMON LAW, STATUTORY, COPYRIGHT AND OTHER RESERVED ROFF OF THESE DRAWINGS AND THE SAME WALL MORE DELEVED NOTION THESE BRANNESS	STALL NOT BE REUSED WITHOUT JOUR STATUM WITH EN CONSENT. ANY REUSE WITHOUT WRITTEN CONSENT BY JULB WILL BE AT CLIENT'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO JULB.		
(N14)	JOINTS	PY RIG	BE AT		
N15	6"x6"x6" DI TEE	ND T	WILL		
N16	12" DI PIPE, FL×FL.	VGS, J	- EXPC		
N17	6" DI PIPE, FL×FL.	REUSE OF DRAWINGS COMMON LAW, STATU IS OF THESE DRAWING	o FRI NT BY LEGAI	z	
N18	6" GATE VALVE	ESE D	Y ORI	VISION	
N19	6" DI 90" BEND	MMMON DF THI		REVI	
N20	6" PRESSURE RELIEF VALVE				
N21	PIPE SUPPRT		FOUT MITHC		
N22	FLOOR DRAIN	SERVE			
N23	1" AIR/VAC VALVE	SHAL	REUSI		
N24	½" SMOOTH NOSED SAMPLE PORT	B-U-L BHTO	SOLE		
N25	12" BUTTERFLY VALVE				
N26	SAFTFLOW CHEMICAL INJECTION QUILL MODEL DB-146-S-S-6-B-E. ADDITIONAL FITTINGS TO CONNECT TO 1/2" TUBING AS NEEDED.				
(N27)	½" POLYETHYLENE TUBE CHEMICAL				
	INJECTION LINE WITH COMPRESSION FITTINGS AND/OR CONE TO TIE-IN TO PVC				
	DISCHARGE LINE, AND INJECTION QUILL. RUN IN INDUSTRIAL GRADE RIGID FLOOR				
	RAMP.				
(N28)	2 PVC CHEMICAL PIPE		_	ô	>
(N29)	HONEYWELL FENDALL PURE FLOW 1000 GRAVITY EMERGENCY EYEWASH STATION, OR APPROVED EQUAL. PROVIDE ONE	WELL NO. 7	0	PROCESS MECHANICAL (D)	≝ 
	COMPLETE REPLACEMENT SET OF SALINE CARTRIDGES.		E	<u>0</u>	NO
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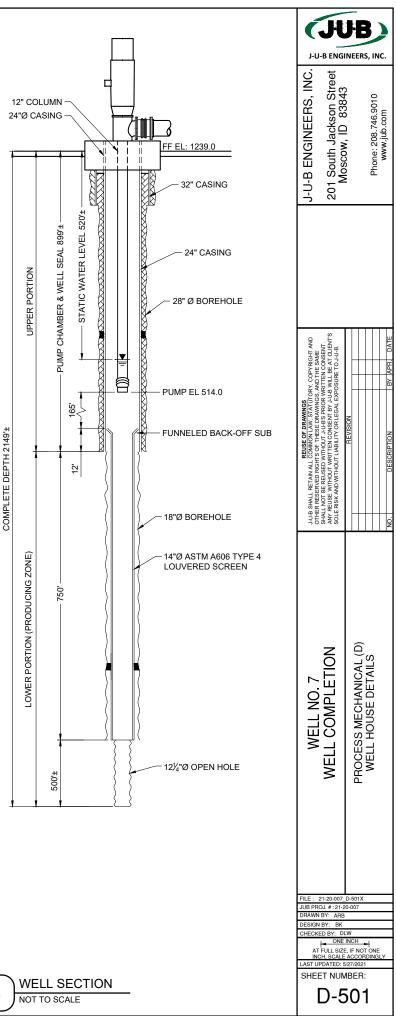
WELL DISCHARGE

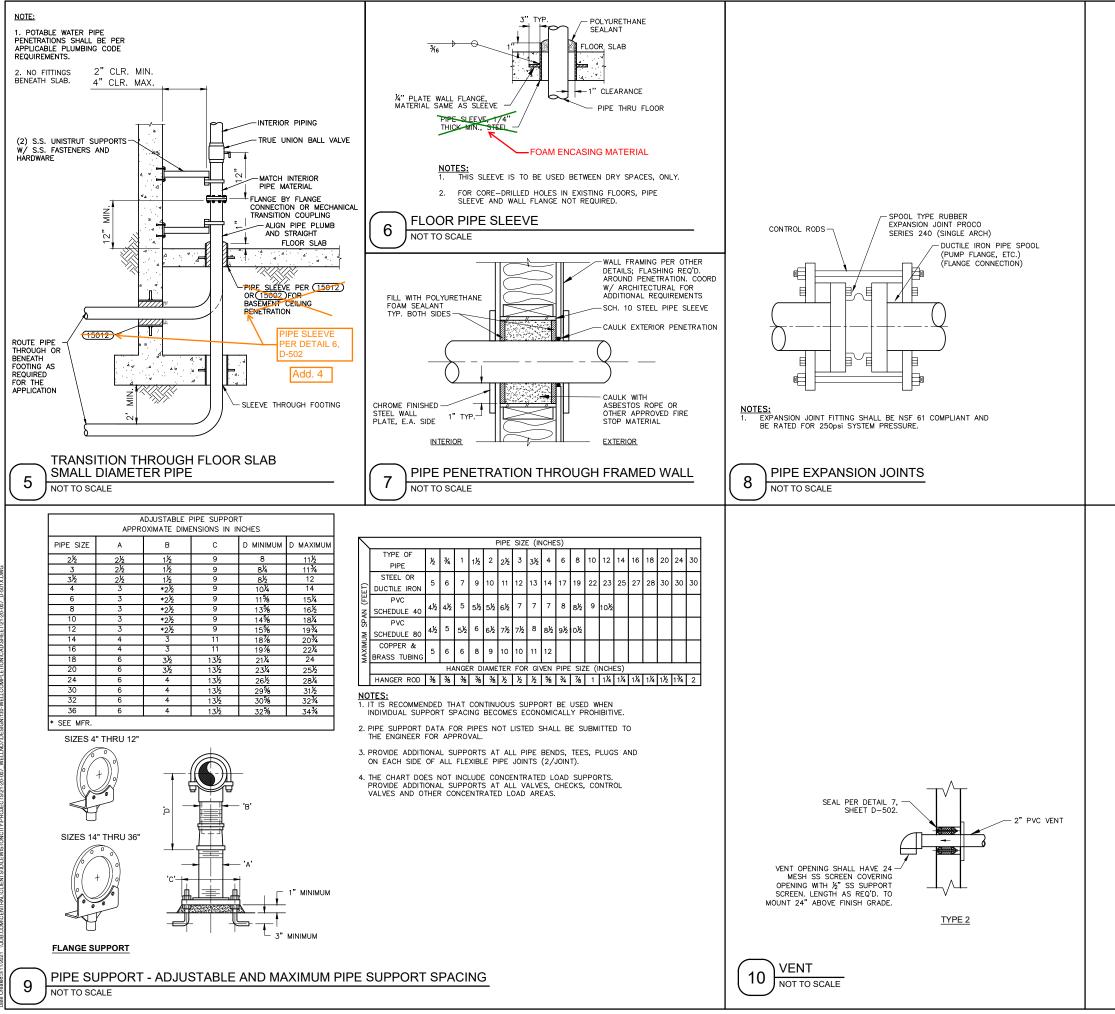


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	RIALS IN CONTACT WITH POTABLE WATER E NSF61 COMPLIANT.	(H	JB)
AND SUB FLOOR D INCLUDE	TOR SHALL DESIGN FLOOR DRAIN SYSTEM MIT TO ENGINEER FOR REVIEW. ROUTE RAINS TO CATCH BASIN. SYSTEM SHALL DRAINS, PIPE, CLEAN OUTS, AND VENTS PLUMBING CODE.	· · · ·	INEERS, INC
	RADE PIPE SHALL BE PAINTED PER SPEC 09900 HIGH PERFORMANCE COATINGS.	J-U-B ENGINEERS, INC 201 South Jackson Street	Phone: 208.746.9010
KEYED	NOTES:		ne: 208.746.9
N1	WELL PUMP AND MOTOR	E E	
N2	12" EXPANSION JOINT	he n n h	
N3	12" DI PIPE, FLxPE.	<u>1</u> -1	
N4	RESTRAINED FLANGED COUPLING ADAPTER	,	
N5	2" DEEP WELL AIR/VAC VALVE		
N6	WATER SERVICE ASSEMBLY		
N7	12" GLOBE CHECK VALVE		
<u>N8</u>	12"x12"x6" DI TEE		
N9	12" MAGNETIC FLOW METER		
(N10)	12" DI 90" BEND		
(N11)	HOSE BIBB AND RACK		
N12	PUMP MOTOR TERMINAL BOX	<i>(</i> 0	
N13)	6" DI PIPE, FLxPE.	RELISE OF DRAWINGS LIJE SHALL RETAM ALL COMMON WAITING TO COPY RIGHT AND OTHER RESERVED RIGHT SOF THESE ROWANG AND THE SAME THESE WITHOUT LIBES PRIOR WAITING COMENT WAITING THE RELISE WITHOUT LIBES PRIOR WAITING COULD JU- SOLE RISK AND WITHOUT LIBELITY ON LEGAL EXPOSURE TO JU-JU-S SOLE RISK AND WITHOUT LIBELITY ON LEGAL EXPOSURE TO JU-JU-S	
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(N15)	JOINTS 6"x6"x6" DI TEE	THE COPYE	
(N16)	12" DI PIPE, FLxFL.	S, AND WRITT WITT POSU	+ + + +
(N17)	6" DI PIPE, FLxFL.	REUSE OF DRAWINGS COMMON LAW STATUTORY, TS OF THESE DRAWINGS, AN THOLT JUES PRIOR WRIT RITTEN CONSENT BY -JU-B W T LIABILITY OR LEGAL EXPOS	
	6" GATE VALVE	REUSE OF DRAWINGS COMMON LAW, STATU COMMON LAW, STATU THO T THESE DRAWING WITHOUT JJJUBS PRIO ATTEN CONSENT BY J T LIABILITY OR LEGAL I	NO
(N18)			REVISION
(N19)	6" DI 90" BEND	S OF 1 TTEN LIABIL	Ξ.
(N20)	6" PRESSURE RELIEF VALVE		
(N21)	PIPE SUPPRT	J-U-B SHALL RETAIN ALL OTHER RESERVED RIGH SHALL NOT BE REUSED SHALL NOT BE REUSED ANY REUSE WITHOUT W SOLE RISK AND WITHOU	
(N22)	FLOOR DRAIN	VLL RE DT BE SE WI K AND	
(N23)	1" AIR/VAC VALVE	LE NG	
(N24)	½" SMOOTH NOSED SAMPLE PORT	J- E S A S	
(N25)	12" BUTTERFLY VALVE		
( <u>N26</u> )	SAFTFLOW CHEMICAL INJECTION QUILL MODEL DB-146-S-S-6-B-E. ADDITIONAL FITTINGS TO CONNECT TO 1/2" TUBING AS NEEDED.		
N27)	½" POLYETHYLENE TUBE CHEMICAL INJECTION LINE WITH COMPRESSION FITTINGS AND/OR CONE TO TIE-IN TO PVC DISCHARGE LINE, AND INJECTION QUILL. RUN IN INDUSTRIAL GRADE RIGID FLOOR RAMP.		
(N28)	浅" PVC CHEMICAL PIPE		
N29	HONEYWELL FENDALL PURE FLOW 1000 GRAVITY EMERGENCY EYEWASH STATION, OR APPROVED EQUAL PROVIDE ONE COMPLETE REPLACEMENT SET OF SALINE	NOL	PROCESS MECHANICAL (D) VELL HOUSE SECTION VIEW
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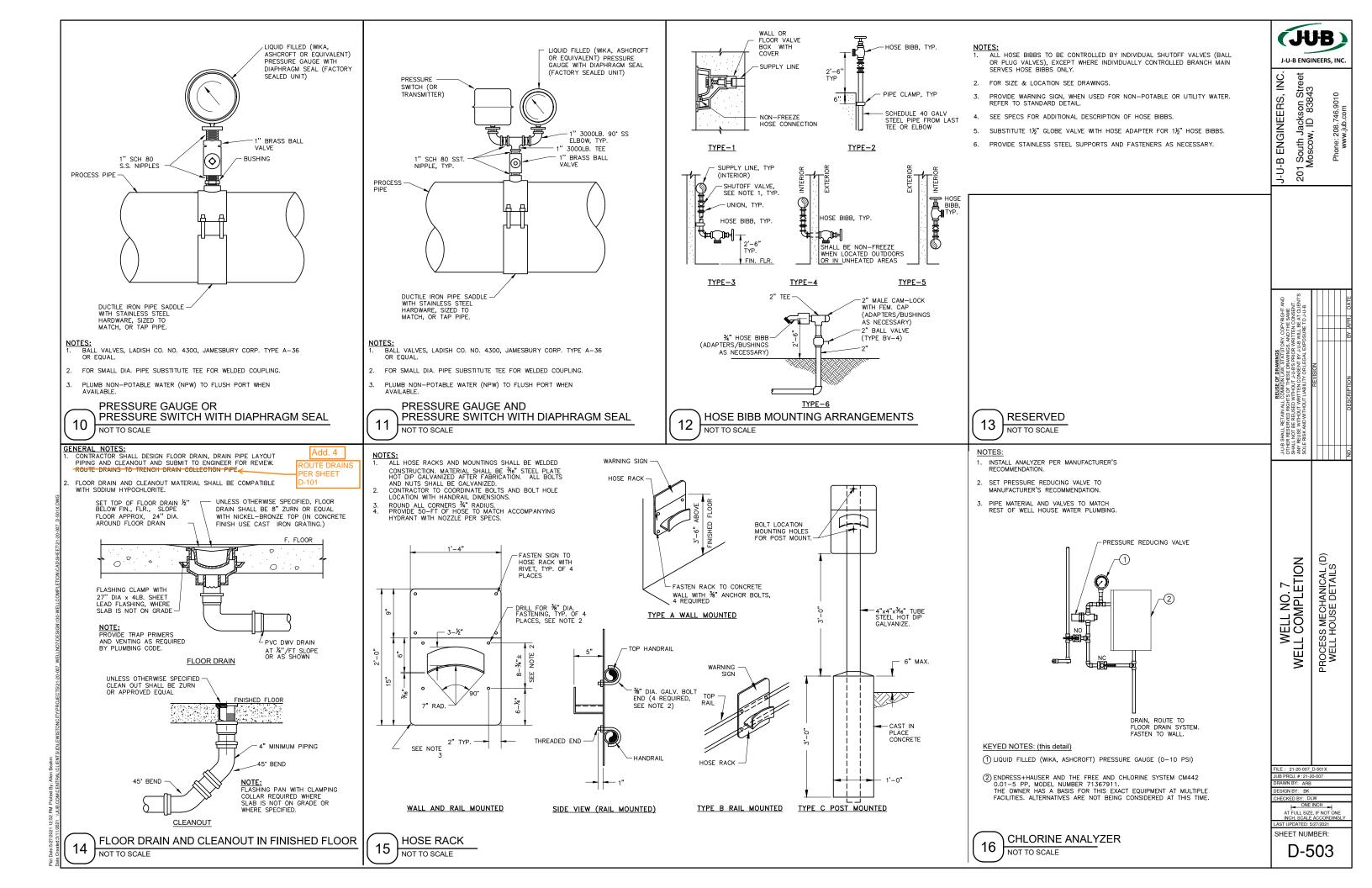


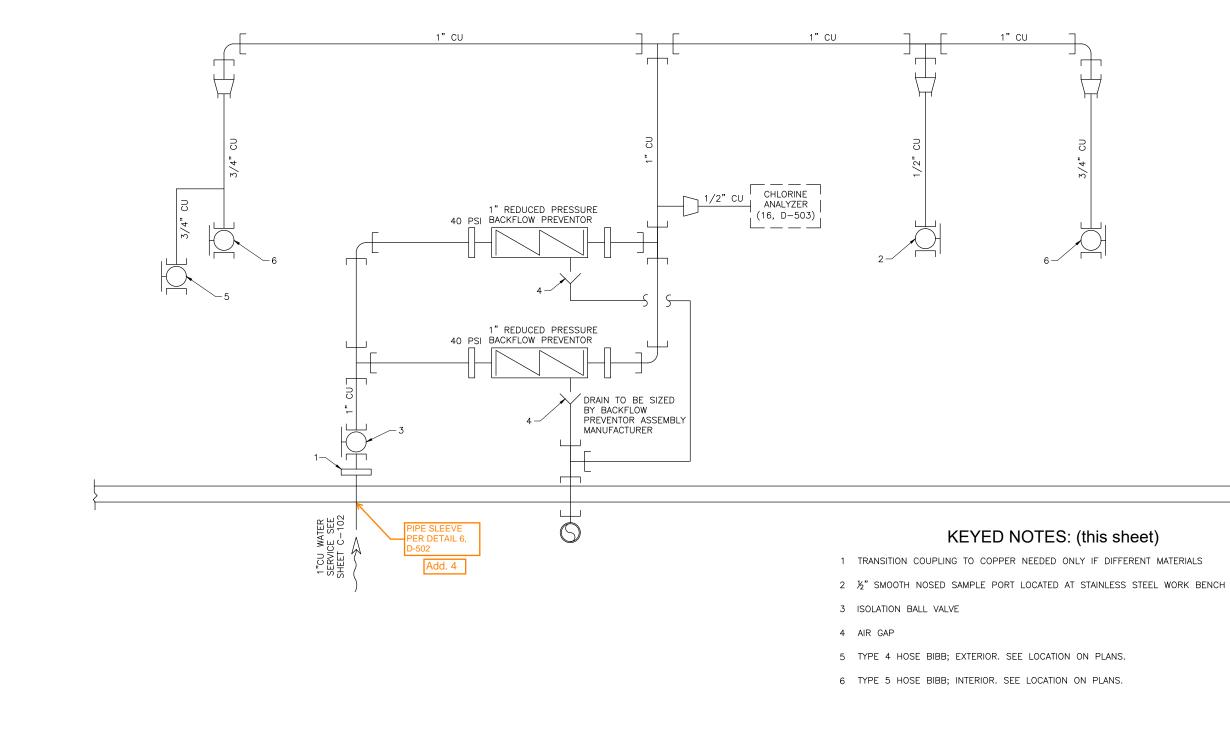




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JU-B ENGINEERS, INC.
J-U-B ENGINEERS, INC. 201 South Jackson Street Moscow, ID 83843 Phone: 208.746.9010 www.jub.com
C COPYRIGHT AND THT HE SAME THT HE SAME MITE SATERT MITE SATERT SURE TO JUJE. SURE TO JUJE.
ALLA SHALL RETAM ALL COMMANINGS JALA SHALL RETAM ALL COMMANING XINTO RY COPYRIGHT AND OTHER RESERVED RIGHTS OF THESE RAWINGS, AND THE SAME SAME REVER BIT ROUTE STATULING SHALL SHALL SHALL ANY REVER BIT REVERSIONT ROUTE SHALL SHALL SHALL ANY REVER BIT ROUTE SHALL SHALL SHALL SHALL SOLE RISK AND WITHOUT LABLINT ON LEGAL SHALL SHALL SHALL REVISION R
WELL NO. 7 WELL COMPLETION PROCESS MECHANICAL (D) WELL HOUSE DETAILS
FILE: 21:20:007. D-501X JUB PROJ. #:21:20:007 DRAWN BY: ARB DESIGN BY: BK CHECKED BY: DLW 



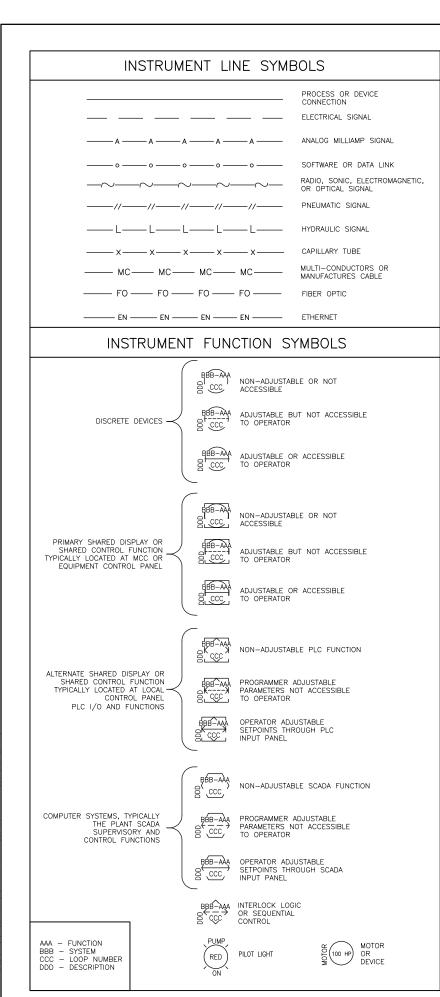


### WATER SERVICE SCHEMATIC 17

NOT TO SCALE



(H	·B)
J-U-B ENGINEERS, INC.	Phone: 208.746.9010 Www.jub.com
REUSE OF DRAWINGS JUJUS SHALL REFAIN ALL COMMOU WN, STATUTORY, COPYRGHT AND OTHER RESERVED RIGHTS OF THESE DRAWINGS, AND THE SAME SHALL NOT BE REUSED WITHOUT JUJUS SHOOD WATTIFN CONSENT ANY REDUCT MATTEN CONSENT RY JUJUS (CLIBNTS SOLE RISK AND WITHOUT LUABILITY OR LEGAL EXPOSURE TO JUJUS.	NO. DESCRIPTION BY AFR. DATE
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FIRST LETTER	MEASURED OR INITIATING VARIABLE	ALARM	HIGH-HIGH ALARM	HIGH ALARM	LOW ALARM	LOW-LOW ALARM	SENSOR FAULT ALARM	BLIND CONTROLLER	NDICATING CONTROLLER	SENSOR (PRIMARY ELEMENT)	GLASS	INDICATOR	PILOT LIGHT	TOTALIZER	RECORD	SWITCH	HIGH-HIGH SWITCH	HIGH SWITCH	LOW SWITCH	LOW-LOW SWITCH	BLIND TRANSMITTER	NDICATING TRANSMITTER	SOLENOID VALVE (PILOT), RELAY, COMPUTATION, CONVERTER	CONTROL VALVE	VALVE	FINAL CONTROL ELEMENT
A	ANALYSIS	AA	ААНН	AAH	AAL	AALL	AAT	AC	AIC	AE		AI	AL	-	AR	AS	ASHH	ASH	ASL	ASLL	AT	AIT	AY	ACV	AV	AZ
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K	TIME SCHEDULE	KA										К	KL			KS							KY	<u> </u>		
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M	MOISTURE			MAH												MS										
N	SAFETY										<u> </u>					NS										
P	USERS CHOICE PRESSURE OR VACUUM	PA	РАНН	PAH	PAL	PALL	PAT	PC	PIC			PI	PL		PR	PS	PSHH	PSH	PSL	PSLL	PT	PIT	PIT	PY	PV	
PD	PRESSURE DIFFERENTIAL	PDAP	PDAHH	PDAH			PDAT	-	PDIC			PDI	PDL		PDR	-		PDSH	PDSL		PDT	PDIT	PDY	PDCV	FV	
Q	QUANTITY	FUAF	PDAIIII	FURI	FUAL	FUALL	FUAT	FUC	PDIC		-	FUI	FUL	QQI	PUIN	PUO	PDOIN	PUOI	FUOL	FUGLE	FUT	PDIT	PU1	FUCY		
R	RADIATION													- arai										-		
S	SPEED OR FREQUENCY	SA	SAHH	SAH	SAL	SALL	SAT	SC	SIC	SE		SI	SL		SR	SS	SSHH	SSH	SSL	SSLL	ST	SIT	SY	SCV		SZ
T	TEMPERATURE	TA	ТАНН	ТАН	TAL	TALL	TAT	TC	TIC	TE	-	П	п		TR	TS	TSHH	TSH	TSL	TSLL	π	ПТ	TY	TCV	τv	TZ
U	MULTI-VARIABLE																									
v	VIBRATION OR MECH. ANALYSIS	VA	VAHH	VAH			VAT			VE		VI	VL		VR	VS	VSHH	VSH			VT	VIT	VY			
W	WEIGHTOR FORCE	WA	WAHH	WAH	WAL	WALL	WAT	wc	WIC	WE		W	WL	WQI	WR	WS	WSHH	WSH	WSL	WSLL	WT	WIT	WY	WCV	wv	WZ
х	UNCLASSIFIED																									
Y	EVENT, STATE OR PRESENCE	YA										YI	YL		YR	YS										
Z	POSITION OR DIMENSION	ZA	ZAO=(	OPEN	ZAC=	CLOSE	ZAT	ZC	ZIC	Æ	ZG	Z	1		ZR	ZS	ZSO=C	PEN	ZSC=	CLOSE	ZΤ	ZIT	ZY	ZCV	ZV	ZZ
																•							•			
	MECHANICAL	EC	QUIF	PME	NT	SY	ΜE	OL	.S									\	/AL	VE	K	ΞY				
	I							REDU						N.O.	N	I.C.					N.C	N C	.C.			
		/ PRE	SSURE	SEAL		7		NEDG	ICEN .					$\bowtie$		M	GAT	E VAL	٧E		10			TERFLY	VAL	VE
						7.5		SUB	IERSIBL	F																
						7.5		PUMF							+							7		PHRAM	VAL	VE
	(7.5) CENTRIFUG	AL PU	MP													_		D OPE		D						
	$\geq$					( 7.5 )	)		1041						-								≰ con	BINAT	ION	
	METERING	PUMP						VERI	ICAL	PUMP						_	STO	P GAT	E					/VACU IEF VA		
	ROTARY L	OBE PI	JMP												2	7	CHE	CK VA	ALVE					RELIE	F VA	LVE
	ROTARY L	OBE BI	_OWER		C		$\supset$	MD	KER				[	N.O. XXI	Þ		PLU	IG VAL	.VE			Ę	🗊 мис	) VALV	Έ	
	PROGRESS	IVE CA	WITY P	UMP			I	SIL	ENCER.					N.O. X		I.C. <b>0</b> 1	BAL	L VAL	VE			□	INJE	ECTION	QUI	LL

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GEAR PUMP

POSITIVE

DISPLACEMENT PUMP

ORIFICE PLATE

STATIC MIXER

STRAINER

COMPRESSOR

GENERATOR

MOTOR

PULSATION

DAMPNER

REDUCED PRESSURE BACK FLOW PREVENTER

SOLENOID ACTUATOR

WEIR GATE

MOTOR OPERATED ACTUATOR Ŕ

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PRESSURE RELIEF VALVE

PRESSURE

REDUCING

REGULATOR

REGULATOR

BACK PRESSURE

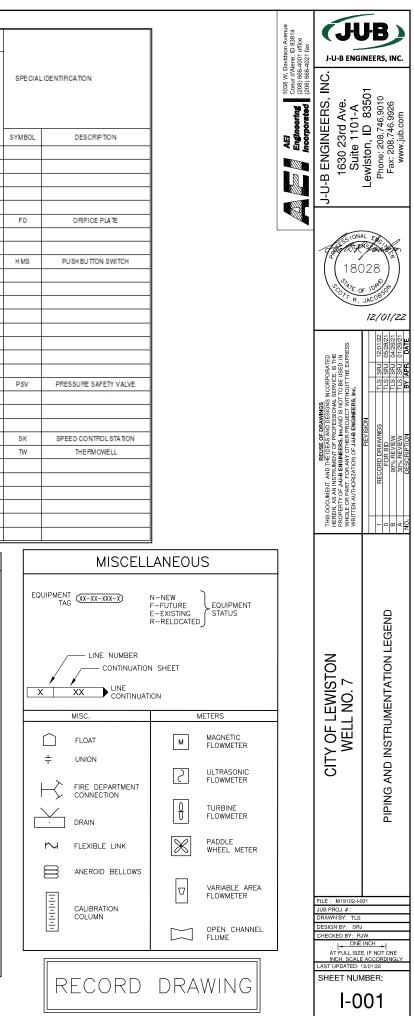
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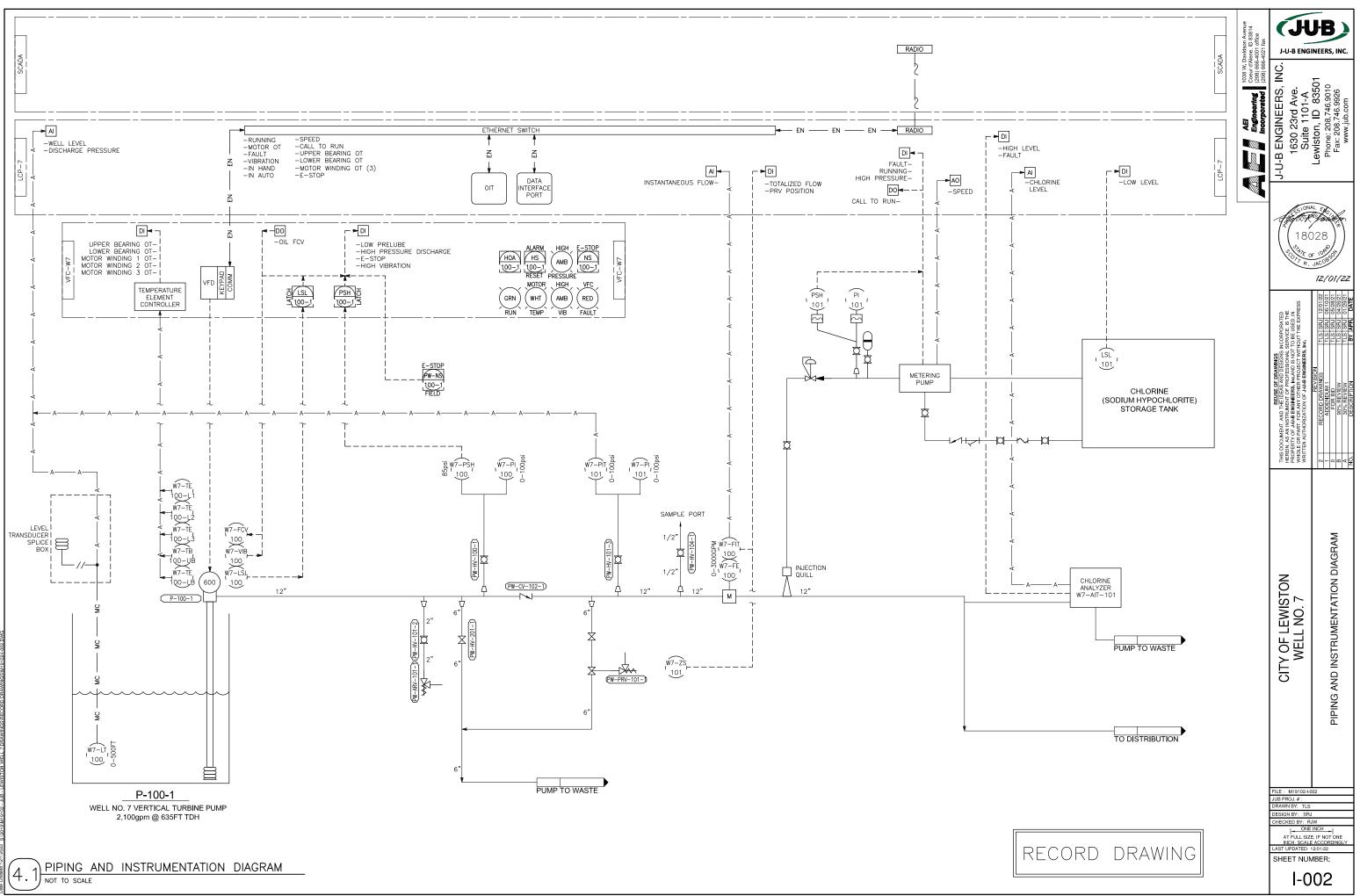
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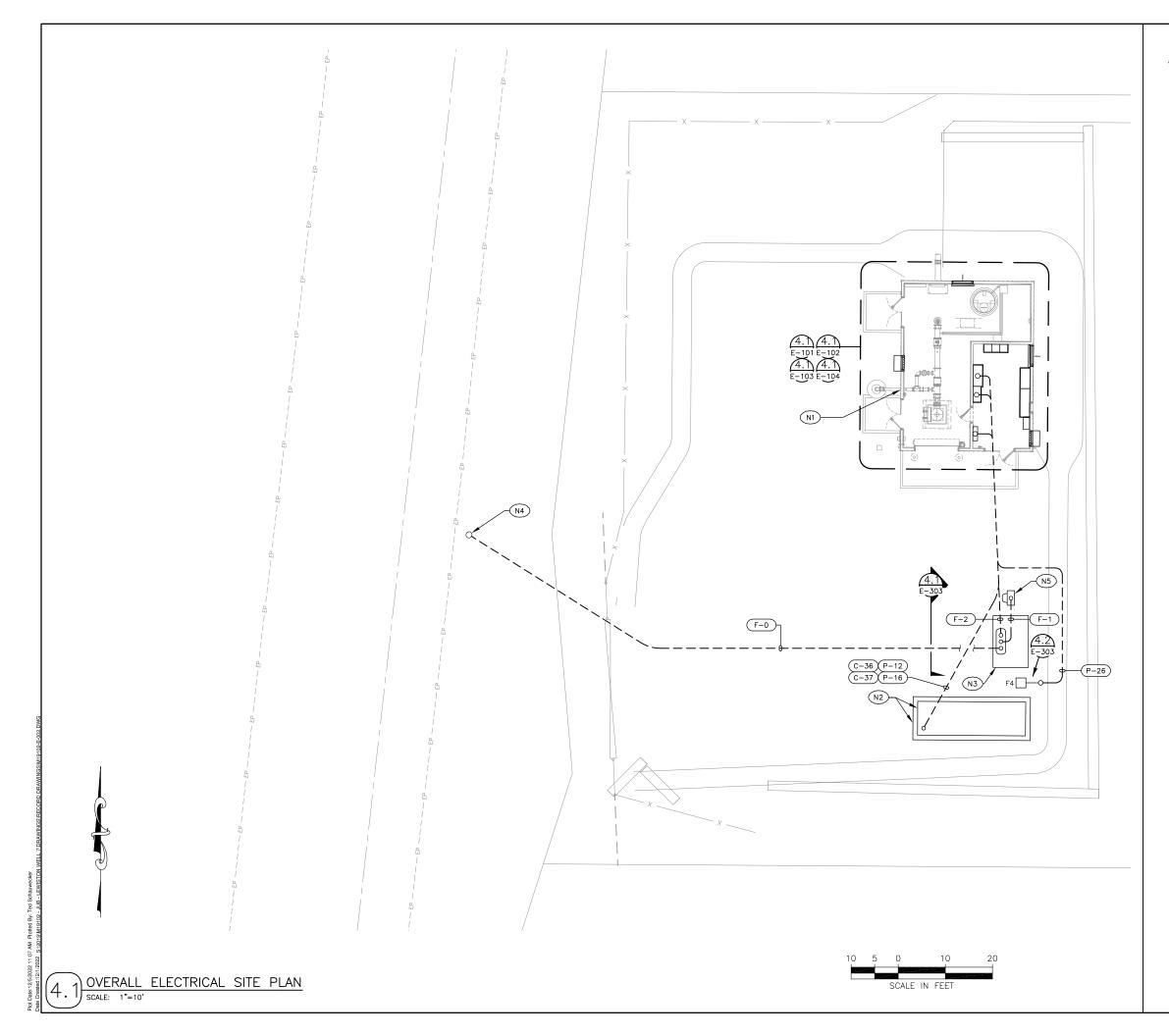
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at Date:12/1/2022 3:00 PM Plotted By: Ted Schauwecker te Greated:12/1/2022 5:2019/M15102 - JUB - LEWISTON WELL 7/DBA





	ΝΕΩΩΠΟΤΙΛΝ			LEGEND	IROI	DESCRIPTION	ABBREVIATIONS		REFERENCE S			UΒ
SYMBOL	DESCRIPTION	SYMBOL		SYM	PLAN	DESCRIPTION	ABBKEVIATIONS		REFERENCE S	A WROLZ	tax	
	LED LUMINAIRE, SURFACE MOUNTED ON CEILING WITH EMERGENCY BATTERY PACK		CONDUIT CONCEALED IN WALLS OR CEILINGS WHERE POSSIBLE		•	GROUND ROD IN GROUND ROD BOX	A,AMP — AMPERE AL — ALARM	PV-1 VAULT CALLOUT	(	P-355 N EQUIPMENT CALLOUT	1204-9	IGINEERS,
			CONDUIT UNDER FLOOR OR UNDERGROUND				AC – AIR COMPRESSOR AF – AMPERE FRAME AFF – ABOVE FINISHED FLOOR	DUCT BANK CALLOUT		IF−FUTURE 🖉 Ö Ö		5
$\supset$	LED LUMINAIRE, SURFACE MOUNTED ON CEILING	EX UP	EXISTING CONDUIT ROUTED UNDERGROUND		Т	TRANSFORMER, PLAN VIEW SHOWN TO SCALE	AFG – ABOVE FINISHED GRADE AFS – AMPERE FUSE	CONDUIT IDENTIFICATION			Ave.	1-A 8350 3.9010
		— P ——	UNDERGROUND PRIMARY POWER	<u> </u>	СТ	CURRENT TRANSFORMER, NUMBER INDICATES NUMBER OF C.T.'S. PLAN VIEW SHOWN TO SCALE	AIL - AMBER INDICATING LIGHT	F-1 POWER FEEDER CONDUIT WIRE TAG, SEE SCHEDULE		SECTION LETTER		2 ⊡ ¥
۲	LED LUMINAIRE, RECESSED MOUNTED IN CEILING WITH EMERGENCY BATTERY PACK	~~~~~	MC-HL CABLE WITH XP SEAL FITTINGS	(10)	M	MOTOR, NUMBER INDICATES HORSEPOWER	ALT – ALTERNATOR AO – ANALOG OUTPUT POINT (PLC) AS – AMPERE SWITCH	P-1 POWER & CONTROL COND WIRE TAG, SEE SCHEDULE CONTROL CONDUIT & WIR		DETAIL/SECTION 2	ENGINE 630 23r	viston, I wiston, I
$\bigcirc$	LED LUMINAIRE, RECESSED MOUNTED IN CEILING	$\sim$	CONDUIT FLEXIBLE	ب ملہ	ОТ	OVERTEMPERATURE CUTOUT	AT – AMPERE TRIP ATS – AUTOMATIC TRANSFER SWITCH BC – BATTERY CHARGER	C-1 CONTROL CONDUT & WIR SEE SCHEDULE SIGNAL CONDUIT & WIRE SEE SCHEDULE		SHEET WHERE DETAIL	<u> </u>	Lew
0		$\sim$	HEAT TAPE ON PIPING	ч (Н (92)		LOCAL EQUIPMENT CONTROL PANEL -	BH – BLOCK HEATER BIL – BLUE INDICATING LIGHT BP – BYPASS CONTACTOR	T-1 TELEPHONE CONDUIT & W	/IRE TAG	- SECTION LETTER		
Ę	LED LUMINAIRE, WALL MOUNTED	$\sim$	MANUFACTURERS CORD/CABLE		(sv)	MCP, LCP, FACP SOLENOID VALVE	C – CONDUIT (GRS) CB – CIRCUIT BREAKER CGD – COMBUSTIBLE GAS DETECTOR	G-1 GROUND ELECTRODE SYST	ΈM			
	LED EXIT SIGN, SHADED AREA INDICATES FACE.	O	CONDUIT TURNED UP OR TOWARD	ss Ss		SULENVID VALVE	CP – CONTROL PANEL CPT – CONTROL POWER XFMR CT – CURRENT TRANSFORMER	R-1 SPARE CONDUIT		SHEET ON WHICH	A Sector	ONAL E
⊗ł	ARROW INDICATES DIRECTIONAL ARROW.		CONDUIT TURNED DOWN OR AWAY	$-++\infty$		MAGNETIC MOTOR STARTER (SS-SOLID STATE)	CTL – CONTROL CV – CHECK VALVE	XXXA LETTER INDICATES CONTINU CONDUIT XXX. THE LETTE SIGNIFIES MULTIPLE COND	ER "N"	SECTION APPEARS		<b>,</b> 302
	SPECIAL PURPOSE RECEPTACLE – AS NOTED		CONDUIT CAPPED			MAGNETIC MOTOR STARTER W/ DISCONNECT	DB – DIRECT BURIED DE – DOUBLE END D.E. – DEAD END	CONTINUATIONS.		FIGURE OR PHOTO DETAIL NUMBER	SCOTTE	E OF 10
			CONDUIT SEALS. CLASS 1. DIV.1 EXPLOSION PROOF	MS ⊥ 2	MS	FULL VOLTAGE STARTER/NEMA SIZE MS = MOTOR STARTER CONTACT BP = BYPASS CONTACTOR	DEM – DEMAND DF – DEMAND FACTOR DI – AC DIGITAL INPUT POINT (PLC)					12 12
⊕ <sub>y</sub>	DUPLEX RECEPTACLE Y=NOTATIONS FOR ALL RECEPTACLE TYPES: GFI = GROUND FAULT CIRCUIT	1	CONDUIT HOME RUN 3/4"C, 2#12 & 1#12 GND. TO			IC = ISOLATION CONTACTOR	DO – AC DIGITAL OUTPUT POINT (PLC) EF – EXHAUST FAN ESD – EMERGENCY SHUTDOWN	WIRING DIAGRAM DETAIL LOCAT	TION	SHEET WHERE DETAIL IS TAKEN FROM		
	INTERRUPTER (GFCI) HT = RECEPTACLE USED FOR HEAT TRACE	L7	PANEL L, CKT. 7 UNLÈSS SHOWN OTHERWISE. IF NO HASH MARKS SHOWN, DEFAULT TO		<sup>60A</sup>	DISCONNECT SWITCH, NON FUSED (60A) INDICATES AMPERAGE RATING	ESS – EMERGENCY STOP SWITCH EXIST – EXISTING			L IF PHOTO, ARROW DENOTES DIRECTION TAKEN	TED 7. IN XPRESS	
	WP = WEATHER PROOF COVER I = SOLATED GROUND	P1	CONDUCTORS AS REQUIRED BY NEC			X = NOTATIONS FOR ALL EQUIPMENT DISCONNECT TYPES: M = MOTOR RATED DISCONNECT	GFI – GROUND FAULT INTERRUPT GND – GROUND GIL – GREEN INDICATING LIGHT	ADDENDUM NUMBER		DETAIL NUMBER	RPORAT VICE, IS ' BE USED T THE E	
	C = CEILING MOUNTED RECEPTACLE +X"= INDICATES CENTERLINE MOUNTING HEIGHT ABOVE FINISHED FLOOR	-	CONDUIT HOME RUN - SEE SCHEDULE			SWITCH, EATON — ARROWHART #AHD530, OR APPROVED EQUAL	GRS – GALVANIZED RIGID STEEL H – HOT, HIGH HH – HAND HOLE			$\begin{pmatrix} 2 \\ xx \end{pmatrix}$	NITHOU NITHOU WITHOU	2
	OR GRADE	J	JUNCTION BOX	100AF			HMI – HUMAN MACHINE INTERFACE HOA – HAND-OFF-AUTO				P D D D D D D D D D D D D D D D D D D D	
$\nabla$					F 200/100	DISCONNECT SWITCH, FUSED 200 = SWITCH RATING, 100 = FUSE RATING	HS – HAND SWITCH HTR – HEATER I – INTRUSION SWITCH	RECORD DRA	II	SHEET ON/ WHICH DETAIL APPEARS	DE PRO DE AS AN DE AS	REVIS
V	DATA OUTLET	ST	CKT. BKR, RATING/NO. OF POLES WITH THERMAL MAGNETIC CIRCUIT BREAKER TRIP ST — SHUNT TRIP	<u>0</u>		TIME DELAYED CONTACTS	IC – ISOLATION CONTACTOR ISR – INTRINSICALLY SAFE RELAY KS – KEY SWITCH					
T	THERMOSTAT	e		~ ~		(TIME DELAY TO OPEN) (TIME DELAY TO CLOSE)	kVARH – KILOVAR HOUR kWH – KILOWATT HOUR	ELECTRICAL LEGE			AENT, AN AN INSTF AN INSTF ART, FO	
Э	HUMIDISTAT		TRANSFER SWITCH	· `~		INDICATING LIGHT:	L – LOW LCP – LOCAL CONTROL PANEL LS – LIMIT_SWITCH	STMBOL DESCRI		E GENERAL NOTES	S DOCUN EIN. AS / PERTY C NLE OR F	
_			POWER REACTOR	R	R	A = AMBER G = GREEN W = WHITE B = BLUE R = RED	N – NEUTRAL MCC – MOTOR CONTROL CENTER MCP – MAIN CONTROL PANEL	THROW, MOUNTED AT 48" TO T OTHERWISE NOTED X=NOTATIONS FOR SWITCH	OP OF PLATE UNLESS		THIS PROI	
$\leq$	PANELBOARD	——— (	POWER CAPACITOR		R	PUSH TO TEST INDICATING LIGHT TRANSFORMER TYPE	MESR – MASTER EMERGENCY STOP RELAY MFGR – MANUFACTURER MOV – MOTOR OPERATED VALVE	2 = DOUBLE POLE 3 = 3 - WAY 4 = 4 - WAY		THEREFORE SOME ABBREVIATIONS OR SYMBOLS THAT APPEAR ON THIS SHEET MAY NOT BE USED ON THIS PROJECT.		
⊠	TERMINAL		FULL VOLTAGE NON-REVERSING STARTER, NEMA SIZE 1 FVR = FULL VOLTAGE REVERSING			LIGHTED PUSHBUTTON SELECTOR SWITCH:	MTR - MOTOR OFE - OWNER FURNISHED EQUIPMENT	D = DIMMER K = KEY OPERATED		2. THE ELECTRICAL PLAN DRAWINGS ARE		
8	TERMINAL IN MCP	VFD	VARIABLE FREQUENCY DRIVE	<u>-×o o o</u> 	HOA	HOR = HAND/OFF/REMOTE AS = AMP SWITCH HOA = HAND/OFF/AUTO VS = VOLT SWITCH ROL = RMOTE/OFF/LOCAL RO = RUN/OFF	OIT – OPERATOR INTERFACE TERMINAL ORD – OXIDATION REDUCTION POTENTIAL P – PILOT LIGHT	M = MOTOR RATED P = SWITCH WITH PILO WP = WEATHER PROOF	COVER	GENERALLY DIAGRAMMATIC. THE LOCATION OF EQUIPMENT IS APPROXIMATE UNLESS DIMENSIONED. EXACT LOCATIONS		
0	TERMINAL REMOTE DEVICE OR PANEL		SOLID STATE STARTER, REDUCED VOLTAGE		EV	EV=ELECTRICAL VAULT, PV=POWER VAULT	PBL – PUSH BUTTON – LIGHTED PB – PUSH BUTTON PFR – PHASE FAILURE RELAY	SW = SPLIT CIRCUITING +X" = INDICATES MOUNTI PLATE, ABOVE FINISHED FLOOR	ING HEIGHT TO TOP OF	AND ROUTING OF CONDUITS AND		
SS			WITH ISOLATION & BYPASS CONTACTORS		HS	SV=SIGNAL VAULT HAND SWITCH	PS – PRESSURE SWITCH PT – POTENTIAL TRANSFORMER PTZ – PAN, TILT, ZOOM			INTERFERENCES AND BY LOCATIONS OF ELECTRICAL TERMINATIONS ON EQUIPMENT.		
OL	SOLID STATE OVERLOAD		FUSE		PB	PUSHBUTTON SWITCH. MOMENTARY ON	PVC - POLY VINYL CHLORIDE (CONDUIT) PWR - POWER	Separate Boxes with Separate		CALLED OUT FOR CLARITY. SEE CONDUIT	N	
	GRAVITY DAMPER	AM	AMMETER (WHM-WATT HOUR METER)		ESS	EMERGENCY STOP SWITCH (PUSH/PULL)	RHP – RADIANT HEAT PANEL RIL – RED INDICATING LIGHT RR – REMOTE RACK	\$а, ь, с INDICATES MULTIPLE SWITCH		AND WIRE SCHEDULE FOR ADDITIONAL CONDUIT.	⊿Z	
		(VM)	VOLTMETER		PS	PRESSURE SWITCH. NORMALLY CLOSED	RTM – RUN TIME METER SA – SURGE ARRESTOR SIG – SIGNAL	NUMBER OF INDIVIDUAL SWIT FIXTURES CONTROLLED.			N N N	
	EXHAUST FAN, INLINE	AMAS	METER & SWITCH: A = AMP, V = VOLT		FS	FLOW SWITCH. NORMALLY CLOSED	SPC – SHIELDED POWER CABLE SSOL – SOLID STATE OVERLOAD RELAY					
		CR	CONTROL RELAY		zs	LIMIT SWITCH, NORMALLY OPEN	SS – SOLID STATE OR STAINLESS STEEL SV – SOLENOID VALVE STP – SHIELDED TWISTED PAIR		0.445.01			
		ETM	ELAPSED TIME METER		LS	LEVEL SWITCH, CLOSES ON RISING LEVEL	STT – SHIELDED TWISTED THREE CONDUCTOR (TRIAD) T – THERMOSTAT	SYMBOL SECURITY	SYMBOL	FIRE PROTECTION	-  E	
		PE	PHOTO ELECTRIC CELL			TS-TEMP. SWITCH, (SEE DWG. FOR OPERATION)	TC – THERMOCOUPLE TDOE – TIME DELAY ON ENERGIZATION TDOD – TIME DELAY ON DE-ENERGIZATION	MD MOTION DETECTOR	FACP	FIRE ALARM CONTROL PANEL		
			PANEL HEATER WITH FAN AND THERMOSTAT	ۍ (		TC-THERMOCOUPLE, T-THERMOSTAT	TR – TRIP RELAY TNI – TELEPHONE NETWORK INTERFACE	DC DOOR CONTACTS	(2)	SMOKE DETECTOR, CEILING MOUNTED		
		[ > '@]	THE DESIGN WITH LAW AND IMERMUSIAL	(°)		POTENTIOMETER	TVSS – TRANSIENT VOLTAGE SURGE SUPPRESSOR UH – UNIT HEATER	EOL END OF LINE RESISTOR	R	ADDRESSABLE FIRE ALARM SYSTEM RELAY		
		— <u> </u>	CONDUCTORS NOT CONNECTED	(f)	LT	LEVEL (T=TRANSMITTER, E=ELEMENT, S=SWITCH)	UTP – UNSHIELDED TWISTED PAIR VFD – VARIABLE FREQUENCY DRIVE WIL – WHITE INDICATING LIGHT	KP KEYPAD		HEAT DETECTOR		
		<b> </b>	CONDUCTORS CONNECTED	et O	PT	PRESSURE TRANSMITTER	WP – WEATHER PROOF WR – WEATHER RESISTANT WS – TORQUE SWITCH PROOF			FIRE ALARM HORN STROBE, WALL MOUNTED C = CEILING MOUNTED WP = WEATHERPROOF		
			PULL OUT SWITCH/PLUG-RECEPTACLE CONNECTION	S)	SI	SPEED INDICATOR	XFMR – TRANSFORMER XP – EXPLOSION PROOF				FILE : M19102 JUB PROJ. # :	
		—@—	BLOWN FUSE INDICATOR	₽	DS	FLOW TRANSMITTER DOOR SECURITY SWITCH	SYMBOL	DESCRIPTION		FIRE ALARM STROBE	DRAWN BY: T DESIGN BY: S	"LS SRJ
		—— I ——	NORMALLY OPEN CONTACT. (WHEN DE-ENERGIZED)		ws	TORQUE SWITCH	SCHEMATIC PLAN			FIRE ALARM PULL STATION	CHECKED BY:	NE INC
			NORMALLY CLOSED CONTACT. (WHEN DE-ENERGIZED)		CS	CONTROL STATION, SINGLE OR MULTIPLE SWITCHES	VS VS	VIBRATION SENSOR	H	FIRE ALARM HORN	INCH, SCA LAST UPDATED	ALE ACI D: 12/01
		<u> </u>	THERMAL OVERLOAD RELAY		MS	MOISTURE SENSOR		RESISTANCE TEMPERATURE DEVICE	FS	FLOW SWITCH		
		Ŭ			HTR	HEATER		UNIT HEATER	TS	TAMPER SWITCH	E-	00

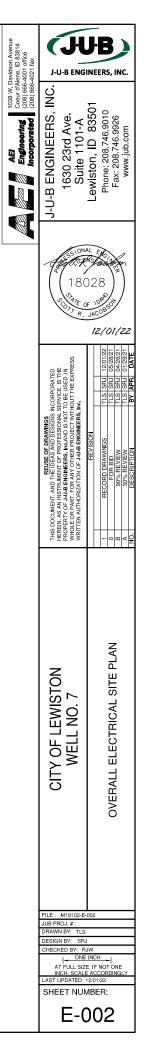


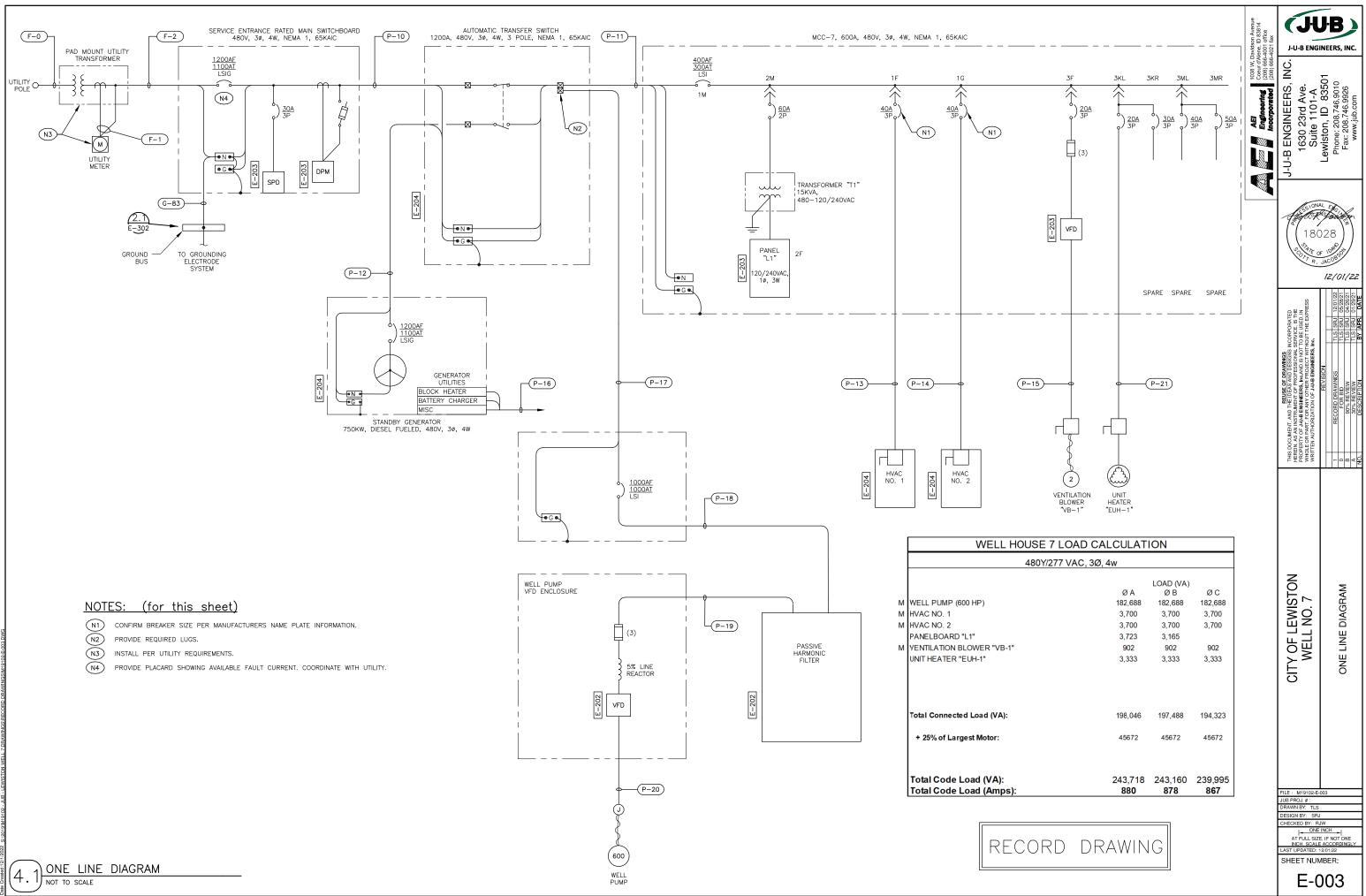
## <u>NOTES: (for this sheet)</u>

(N1) WELL HOUSE BUILDING.

(N2) GENERATOR AND GENERATOR CONCRETE PAD. CONTRACTOR SHALL COORDINATE INSTALLATION LOCATION TO PROVIDE A MINIMUM CLEARANCE OF 48" ON ALL SIDES OF GENERATOR.

- N3 UTILITY PAD MOUNT TRANSFORMER.
- N4 NEW AVISTA POWER POLE.
- N5 UTILITY METER. INSTALL PER UTILITY REQUIREMENTS.





Date:12/5/2022 9:45 AM Plotted By: Ted S. Oreated:12/1/2022 S:/2019/M19102 - JUB

		R CABLE SW-SWITCH XMITTER-TRANSMITTER (2-7C)- INDIC						
	SERVICE			CON		CONDUCTORS		REMARKS
TAG		FROM		<b>Ω</b> ΤΥ	SIZE	(QTY) & SIZE	GROUND SIZE	
	UTILITY SERVICE UTILITY SERVICE	UTILITY POWER POLE UTILITY PAD MOUNTED TRANSFORMER	UTILITY PAD MOUNTED TRANSFORMER UTILITY METER	3	2" 1"	BY UTILITY (10) 10 AWG	- 10 AWG	PER UTILITY REQUIREMENTS
	UTILITY SERVICE	UTILITY PAD MOUNTED TRANSFORMER	SERVICE ENTRANCE RATED MAIN SWITCHBOARD	3		(3) 500 KCMIL (1) 4/0 AWG	-	
P-10	POWER	SERVICE ENTRANCE RATED MAIN SWITCHBOARD	AUTOMATIC TRANSFER SWITCH	3		(3) 500 KCMIL (1) 4/0 AWG	3/0 AWG	
P-11	MCC FEED	AUTOMATIC TRANSFER SWITCH	MCC-7	1	4"	(3) 500 KCMIL (1) 4/0 AWG	3 AWG	
	STANDBY GENERATOR POWER	STANDBY GENERATOR	AUTOMATIC TRANSFER SWITCH	3		(3) 500 KCMIL (1) 4/0 AWG	3/0 AWG	
	HVAC	MCC-7	HVAC-1	1	1"	(3) 8 AWG	10 AWG	
	HVAC VENTILATION BLOWER "VB-1"	MCC-7 MCC-7	HVAC-2 VENTILATION BLOWER "VB-1" STARTER	1		(3) 8 AWG (3) 12 AWG	10 AWG 12 AWG	
	GENERATOR UTILITIES	STANDBY GENERATOR	PANEL "L1"	1			10 AWG	
	WELL PUMP	AUTOMATIC TRANSFER SWITCH	WELL PUMP VFC ENCLOSURE	3		(3) 500 KCMIL	2/0 AWG	
P-18	WELL PUMP	WELL PUMP VFC ENCLOSURE	PASSIVE HARMONIC FILTER	3	3-1/2"	(3) 500 KCMIL	2/0 AWG	
	WELL PUMP	PASSIVE HARMONIC FILTER	WELL PUMP VFC ENCLOSURE	3		(3) 500 KCMIL	2/0 AWG	
		WELL PUMP VFC ENCLOSURE	WELL PUMP MOTOR VIA JB	3		(1-3C) 350 KCMIL SPC	IN CAB	
				1		(3) 12 AWG	12 AWG	
	OVERHEAD DOOR OPERATOR POWER MOTORIZED LOUVER "ML-1"	PANEL "L1" MCC-7	OVERHEAD DOOR DISCONNECT MOTORIZED LOUVER "ML-1"	1		(2) 12 AWG (2) 12 AWG	12 AWG 12 AWG	
	MOTORIZED LOUVER 'ML-1'	LOCAL CONTROL PANEL "LCP-7"	MOTORIZED LOUVER "ML-1"	1		(2) 12 AWG (2) 12 AWG	12 AWG	
	METERING PUMP POWER	PANEL "L1"	METERING PUMP	1		(2) 12 AWG	12 AWG	
P-26	POLE MOUNTED YARD LIGHT W/ RECEPTACLE	LIGHT SWITCH JUNCTION BOX	POLE MOUNTED YARD LIGHT W/ RECEPTACLE	1	1"	(4) 12 AWG	12 AWG	
	VFC EXHAUST LOUVERS "LV-1", "LV-2"	EXHAUST LOUVERS "LV-1", "LV-2"	JUNCTION BOX	1	3/4"	(4) 12 AWG	12 AWG	
	VFC EXHAUST LOUVERS "LV-1", "LV-2"	JUNCTION BOX	LOCAL CONTROL PANEL "LCP-7"	1	3/4"	(4) 12 AWG	12 AWG	
		LOCAL CONTROL PANEL "LCP-7"	HEAT DETECTOR "HD-P1"	1	3/4"	(2) 14 AWG	14 AWG	
	HEAT DETECTOR, ELECTRICAL ROOM PUMP ROOM INTRUSION SWITCH	LOCAL CONTROL PANEL "LCP-7"	HEAT DETECTOR "HD-E1" LOCAL CONTROL PANEL "LCP-7"	1		(2) 14 AWG	14 AWG	
	PUMP ROOM IN TRUSION SWITCH	JUNCTION BOX "JB-P1" JUNCTION BOX "JB-P2"	LOCAL CONTROL PANEL "LCP-7"	1		(2) 14 AWG (2) 14 AWG	14 AWG 14 AWG	
	ELECTRICAL ROOM INTRUSTION SWITCH	JUNCTION BOX "JB-E1"	LOCAL CONTROL PANEL "LCP-7"	1		(2) 14 AWG	14 AWG	
	GENERATOR STATUS/ALARMS	GENERATOR CONTROL PANEL	LOCAL CONTROL PANEL "LCP-7"	1		(6) 14 AWG	14 AWG	
C-37	GENERATOR CALL TO RUN	GENERATOR CONTROL PANEL	AUTOMATIC TRANSFER SWITCH	1	1-1/2"	(2) 14 AWG	14 AWG	
C-38	AUTOMATIC TRANSFER SWITCH STATUS	AUTOMATIC TRANSFER SWITCH	LOCAL CONTROL PANEL "LCP-7"	1	3/4"	(5) 14 AWG	14 AWG	
	VFC CONTROL/STATUS	LOCAL CONTROL PANEL "LCP-7"	WELL PUMP VFC ENCLOSURE	1	1"	(13) 14 AWG	14 AWG	
		LOCAL CONTROL PANEL "LCP-7"		1		(2) 14 AWG	14 AWG	
	VENTILATION BLOWER "VB-1" ALARM BEACON	LOCAL CONTROL PANEL "LCP-7" LOCAL CONTROL PANEL "LCP-7"	VENTILATION BLOWER "VB-1" ALARM BEACON	1	3/4" 3/4"	(2) 14 AWG (2) 14 AWG	14 AWG 14 AWG	
	FLOW INDICATING TRANSMITTER "W7-FIT-100"	FLOW INDICATING TRANSMITTER "W7-FIT-100"	JUNCTION BOX	1		(4) 14 AWG	14 AWG	
	FLOW INDICATING TRANSMITTER "W7-FIT-100"	JUNCTION BOX	LOCAL CONTROL PANEL "LCP-7"	1	3/4"	(4) 14 AWG	14 AWG	
C-44	SERVICE ENTRANCE RATED MAIN SWITCHBOARD STATUS	SERVICE ENTRANCE RATED MAIN SWITCHBOARD	LOCAL CONTROL PANEL "LCP-7"	1	3/4"	(4) 14 AWG	14 AWG	
C-45A	DISCHARGE PRESSURE TRANSMITTER "W7-PSH-100"	DISCHARGE PRESSURE TRANSMITTER "W7-PSH-100"	JUNCTION BOX	1	3/4"	(4) 14 AWG	14 AWG	
	PRVPOSITION	JUNCTION BOX	PRV-W7-ZS-101	1	3/4"	(2) 14 AWG	14 AWG	
	DISCHARGE PRESSURE TRANSMITTER "W7-PSH-100"	JUNCTION BOX	MCC-7	1	3/4"	(6) 14 AWG	14 AWG	
	HVAC-1 FAULT	HVAC-1	LOCAL CONTROL PANEL "LCP-7"	1	3/4"	(2) 14 AWG	14 AWG	
C-47 C-48	HVAC-2 FAULT METERING PUMP STATUS AND CALL TO RUN	HVAC-2 LOCAL CONTROL PANEL "LCP-7"	METERING PUMP	1		(2) 14 AWG (4) 14 AWG	14 AWG 14 AWG	
		METERING PUMP "PSH-101"	LOCAL CONTROL PANEL "LCP-7"	1		(2) 14 AWG	14 AWG	
C-50	SODIUM HYPOCHLORITE TANK LS	SODIUM HYPOCHLORITE TANK FLOAT	LOCAL CONTROL PANEL "LCP-7"	1	3/4"	(2) 14 AWG	14 AWG	
	VFC VENTILATION	LOCAL CONTROL PANEL "LCP-7"	VFC VENTILATION MOTORIZED DAMPERS	1		(6) 14 AWG	14 AWG	
	CHLORINE ANALYZER W7-AIT-101	LOCAL CONTROL PANEL "LCP-7"	CHLORINE ANALYZER W7-AIT-101	1		(4) 14 AWG	14 AWG	
	INSTRUMENTS "LSL-100", "FCV-100"	INSTRUMENTS "LSL-100", "FCV-100"	JUNCTION BOX	1		(4) 14 AWG	14 AWG	
	INSTRUMENTS "LSL-100", "FCV-100"		LOCAL CONTROL PANEL "LCP-7"	1	3/4"	(4) 14 AWG	14 AWG	
	EMERGENCY STOP SWITCH "ESS"	EMERGENCY STOP SWITCH "ESS" WELL PUMP VFC ENCLOSURE		1			14 AWG	
S-60 S-61	WINDING AND BEARING RTD'S CELLULAR ANTENNA	LOCAL CONTROL PANEL "LCP-7"	WELL PUMP MOTOR VIA JB TELEMETRY ANTENNA	1	2" 2"	(5) 16 AWG RTD CABLE CELLULAR CABLE	14 AWG 12 AWG	RTD'S FOR WINDINGS, UPPER BEARINGS, I
	VFC SPEED CONTROL/STATUS	LOCAL CONTROL PANEL "LCP-7"	WELL PUMP VFC ENCLOSURE	1		(2) 16 AWG STP	14 AWG	
	LEVEL TRANSDUCER "LT-100-1"	LOCAL CONTROL PANEL "LCP-7"	JB-LT	1		(1) 16 AWG STP	14 AWG	LOCATE BELLOWS IN JB-LT
S-64	ETHERNET COMMUNICATIONS	SERVICE ENTRANCE RATED MAIN SWITCHBOARD	LOCAL CONTROL PANEL "LCP-7"	1		(1) CAT 5e	12 AWG	
S-66A	FLOW INDICATING TRANSMITTER "W7-FIT-100"	FLOW INDICATING TRANSMITTER "W7-FIT-100"	JUNCTION BOX	1	3/4"	(1) 16 AWG STP	14 AWG	
	FLOW INDICATING TRANSMITTER "W7-FIT-100"	JUNCTION BOX	LOCAL CONTROL PANEL "LCP-7"	1		(1) 16 AWG STP	14 AWG	
	DISCHARGE PRESSURE TRANSMITTER "W7-PIT-101"	DISCHARGE PRESSURE TRANSMITTER "W7-PIT-101"		1		(1) 16 AWG STP, (2) 14 AWG	14 AWG	
	DISCHARGE PRESSURE TRANSMITTER "W7-PIT-101"			1	3/4"	(1) 16 AWG STP, (2) 14 AWG	14 AWG	
	METERING PUMP FLOW PACE CHLORINE ANALYZER W7-AIT-101	METERING PUMP LOCAL CONTROL PANEL "LCP-7"	LOCAL CONTROL PANEL "LCP-7" CHLORINE ANALYZER W7-AIT-101	1	3/4"	(1) 16 AWG STP (1) 16 AWG STP	14 AWG 14 AWG	
	TEMPERATURE TRANSMITTER "W7-TT-122"	TEMPERATURE TRANSMITTER "W7-TT-122"	LOCAL CONTROL PANEL "LCP-7"	1		(1) 16 AWG STP	14 AWG	
	TEMPERATURE TRANSMITTER "W7-TT-123"	TEMPERATURE TRANSMITTER "W7-TT-123"	LOCAL CONTROL PANEL "LCP-7"	1		(1) 16 AWG STP	14 AWG	
	TEMPERATURE TRANSMITTER "W7-TT-124"	TEMPERATURE TRANSMITTER "W7-TT-124"	LOCAL CONTROL PANEL "LCP-7"	1		(1) 16 AWG STP	14 AWG	
G-80	GROUNDING ELECTRODE SYSTEM	GROUND BUS	GROUND RING	1	-	-	4/0 AWG	
	ANTENNA SURGE PROTECTION GROUND	TELEMETRY ANTENNA	GROUND ROD	1	1"	-	1 AWG	THWN GREEN CU CONDUCTOR
G-82	GROUNDING ELECTRODE SYSTEM	GROUND RING	GROUND RING	1	-	•	4/0 AWG	BURY 24" BELOW FINISHED GRADE
	GROUNDING ELECTRODE SYSTEM	SERVICE ENTRANCE RATED MAIN SWITCHBOARD	GROUND BUS	1	-	-	4/0 AWG	
			CROLIND RING	4	4.0		1 010/0	PARE OU CONDUCTOR UTURE RUO CONT
G-84	GROUNDING ELECTRODE SYSTEM	PROCESS PIPE BUILDING STRUCTURAL STEEL (REBAR	GROUND RING	1	1"	-	1 AWG	BARE CU CONDUCTOR, UTILIZE PVC SLEE
G-84 G-85	GROUNDING ELECTRODE SYSTEM GROUNDING ELECTRODE SYSTEM GROUNDING ELECTRODE SYSTEM	PROCESS PIPE BUILDING STRUCTURAL STEEL/REBAR BUILDING STRUCTURAL STEEL/REBAR	GROUND RING GROUND RING GROUND ROD	1	1" - -	-	1 AWG 2/0 AWG 2/0 AWG	BARE CU CONDUCTOR, UTILIZE PVC SLEE' BARE CU CONDUCTOR BARE CU CONDUCTOR

4.

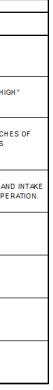
	Avenue 83814 Tee	J	H B
	e, ID 21 fay	J-U-B ENG	INEERS, INC.
ARKS OR REFERENCE DRAWING	1038 W. Davidson Avenue Coerr Aftere, ID 83814 (208) 666–4011 0183814 (208) 666–4021 fax	NC.	
	AEI Engineering Incorporated	ENGINEERS, 1630 23rd Ave. Suite 1101-A	Lewiston, ID 83501 Phone: 208.746.9010 Fax: 208.746.9926 www.jub.com
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		FILE: M19102-E- JUB PROJ. #:	004
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		CHECKED BY: R	
		AT FULL SIZI INCH, SCALE LAST UPDATED:	E, IF NOT ONE ACCORDINGLY 12/01/22
RECORD DRAWING		SHEET NUM	
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			ELECTRICAL MECHANICAL EQUIDMENT SCHEDULE									
	I		ELECTRICAL-MECHANICAL EQUIPMENT SCHEDULE	1	1							
TAG	ПЕМ	SIZE / RATING	DESCRIPTION	MANUFACTURE NUMBER - BASIS OF DESIGN	NOTES							
EUH-1	EUH-1 UNIT HEATER 10KW, 480 VAC, 3 PHASE		WALL/CEILING MOUNTED UNIT HEATER, INTEGRAL CONTACTOR, CONTROL TRANSFORMER AND DISCONNECT SWITCH OPTION, REMOTE LOW VOLTAGE THERMOSTAT.	CHROMALOX MODEL-LUH WITH OPTIONS, OR ENGINEER REVIEWED EQUAL								
ALL VENTILATION CONTROL AND TEMPERATURE ALARM THERMOSTATS	THERMOSTAT, TEMP SWITCH HIGH (TSH) OR TEMP SWITCH LOW (TSL)	25 AMPS, 120 V, SPDT, NE MA 4X, 40-110 °F	CORROSION RESISTANT WALL MOUNTED INDUSTRIAL THE RMOSTAT.	PECO #TF115-001, OR APPROVED EQUAL	SWITCH TO BE CONFIGURED "LOW" OR "HIGH WHERE INDICATED ON PLANS							
HVAC-1, HVAC-2	HVAC UNIT	16 A, 480 V, 3-PH	EXTERIOR WALL MOUNTED UNIT, 5-TON AR CONDITIONING, 15KW ELECTRIC HEATING, RIGHT SIDED COMPRESSOR AND CONTROLS IN CLUDING DISCONNECT, DIGITAL THERMOSTAT/CONTROLLER, BAROMETRIC FRESH AR DAMPER, 1" WASH ABLE FILTER, BEIGE FINISH, EXTREME DUTYDOOR, PHENOLIC COATED OUTDOOR COIL	BARD #W60AA-C 15, OR APPROVED EQUAL	PROVIDE MINIMUM CLEARANCE OF 20-IN CHE EACH SIDE OF UNITPER MANU FACTURES INSTRUCTION S.							
VB-1	VENTILATION BLOWER	6162 CFM @ .5 INWC, 480 VAC, TH REE PHASE, 2 H P, 1127 R PM	WALL MOUNTED, 22" ROUND, BELT DRIVEN, INTERNAL DISCONNECT, ALUMINUM BIRD SCREEN.	COOK #ACW-B-210W9B WITH OPTIONS, OR ENGINEER REVIEWED EQUAL	INTERLOCK OPERATION OF VENTILATOR AND LOUVER WITH AIR CONDITIONING UNIT OPER							
ML-1, ML-2	MOTORIZE D LOUVER	120 VAC, 1 PHASE, MOTORIZED OPERATOR, POWER OPEN,	ALUMINUM COMBINATION DAMPER WITH STATIONARYDRAINABLE FRONT BLADES. UNIT TO BE MOTOR OPERATED TO OPEN, SPRING TO CLOSE, OPERATOR LINKAGE. UNIT TO BE PROVIDED WITH ALUMINUM BIRD SCREEN.	RUSKIN MODEL #ELC6375DAXWITH OPTIONS, OR APPROVED EQUAL	MOUNT BOTTOM OF UNIT +24" AFF							
LV-1	VFD EXHAUST LOUVER		ALUMINUM COMBINATION LOUVER WITH STATION ARY DRAINABLE FRONT BLADES. UNIT TO BE MOTOR OPERATED TO OPEN, SPRING TO CLOSE.	RUSKIN MODEL #ELC6375DAXWITH: 120VAC, POWER OPEN-SPRING TO CLOSE ACTUATOR, OPERATOR LINKAGE.								
LV-2	VFD EXHAUST LOUVER	18" H x24"W, 120 VAC	ALUMINUM COMBINATION LOUVER WITH STATION ARY DRAINABLE FRONT BLADES. UNIT TO BE MOTOR OPERATED TO OPEN, SPRING TO CLOSE.	RUSKIN MODEL #ELC6375DAXWITH: 120VAC, POWER CLOSE - SPRING TO OPEN ACTUATOR, OPERATOR LINKAGE.								
FH-1, FH-2			16 GAU GE GALVANIZED STEEL FILTER FRAME WIT, SPRING CLIPS, AND GASKETED FRAME DESIGNED FOR EASYFILTER REPLACEMENT. UNIT TO BE MOUNTED AND FLANGED TO COVER THE DISCHARGE SIDE OF THE IN TAKE MOTORIZED LOUVER.	KOCH #AR-442 WITH TYPE CA-02 CLIPS, OR APPROVED EQUAL	PROVIDE CORRECTLYSIZED FILTER							

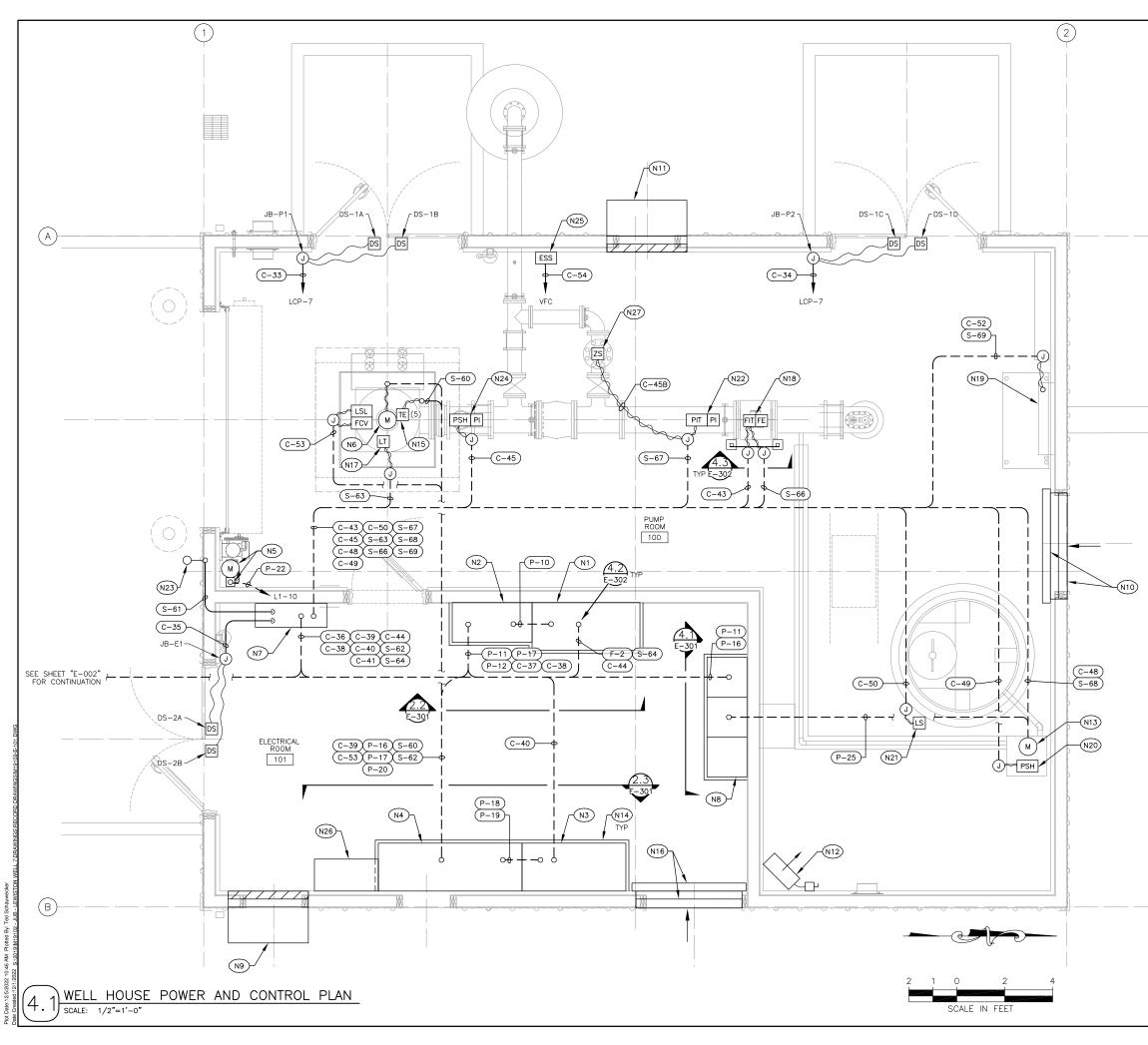
			I		E SCHED	ULE	
TYPE	TYPE DESCRIPTION		LAMP QTY	WATTS / FIXTURE	MOUNTING	MANUFACTURE NUMBER BASIS OF DESIGN	NOTES
F1/F1E	4' SURFACE MTD, ENCLOSED AND GASKETED, ELECTRONIC BALLAST, 5799 LUMENS, RIBBED FROSTED ACRYLIC LENS, FAST BLOW FUSE	120 VAC	LED	52W	CEILING SURFACE	F1: COLUMBIA #LXEM4-35HL-RFA-EU-GLR, OR APPROVED EQUAL F1E: COLUMBIA #LXEM4-35HL-RFA-EU-GLR- ELL14, OR APPROVED EQUAL	EMERGENCY BATTERY PACK WHERE INDICATED
F2	ALL PACK MOUNTED LUMINAIRE, TYPE III IZTRIBUTION, 4000K, 3421 LUMENS, 120 HOTOCONTROL BUTTON, MOTION VAC ENSOR, IN-LINE FUSING, BRONZE FINISH		LED	38W		PHILIPS GARDCO #121-16L-700-NW-G3-3-EBPC-	MOUNTING HIEGHT SHALL BE AS INDICATED ON ARCHITECTURAL PLANS
F3	INCANDESCENT ROTATING LIGHT, PARABOLIC REFLECTOR, RED LENS	120 VAC	INC (1)	40	WALL SURFACE	FEDERAL SIGNAL CORP: 225-120R	PROVIDE CORNER OR NORMAL WALL MOUNTING BRACKET AS INDICATED ON PLANS
F4	SINGLE HEAD RECTILINEAR LED LUMINAIRE WITH DIE CAST ALUMINUM HOUSING AND PHOTOCELL ON 20FT. ROUND STEEL POLE WITH INTEGRAL GFCI RECEPTACLE	120 VAC	LED	162	20 'POLE	LUMINAIRE: MCGRAW-EDISON #GLEON-SA5A- 740-U-T3-BZ-HSS-PR, OR APPROVED EQUAL POLE: COOPER #RSS6M20SFN1XE, OR APPROVED EQUAL	

	Panel: L1			Mains:	80 A	Volt	age:	120/240 VAC, 1ø, 3w
	Mounting: MCC-7	Poles:	30	Туре:	CB	Min.	A.I.C.:	10,000
	Use and/or Area Served	C/B	Cir.		Load	Cir.	C/B	Use and/or Area Served
			No.	ØA	ØВ	No.		
	LIGHTS	20	1	738	_		20	RECEPTACLES
	METERING PUMP RECEPTACLE	20	3	900	1000	2	20	RECEPTACLES
	METERING FOMP RECEPTACLE	20			1000	4	20	RECEPTACLES
	LOCAL CONTROL PANEL "LCP-7"	20	5	500			30	GENERATOR BLOCK HEATER &
				900		6		BATTERY CHARGER
I	MOTORIZED LOUVER ML-1	20	7		180 900	8	4,	GENERATOR BLOCK HEATER & BATTERY CHARGER
	SPARE	20	9	180	900	8	20	OVERHEAD DOOR OPERATOR
I		20	<b>–</b>	500	-	10	120	OVERTIEAD DOOR OF ERATOR
I	SPARE	20	11		162		20	YARD LIGHT RECEPTACLE
ļ					250	12		
I	SPARE	20	13			14	20	SPARE
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I	SPD	30	27				80	FROM TRANSFORMER T1
ļ				1		28	1	
	SPD	2	29		_	30	1 2	FROM TRANSFORMER T1
	Total Connected Load (VA):	2		3718	3577	NOT		<u>-</u>
	+ 25% of Continuous Load:			410	225	-		MDE INTEGRAL SPD PROTECTION.
ł	+ 25% of Largest Motor:			125	45	_	,	
	Total Code Load (VA):			4253	3847			
l	Total Code Load (Amps):			36	33			

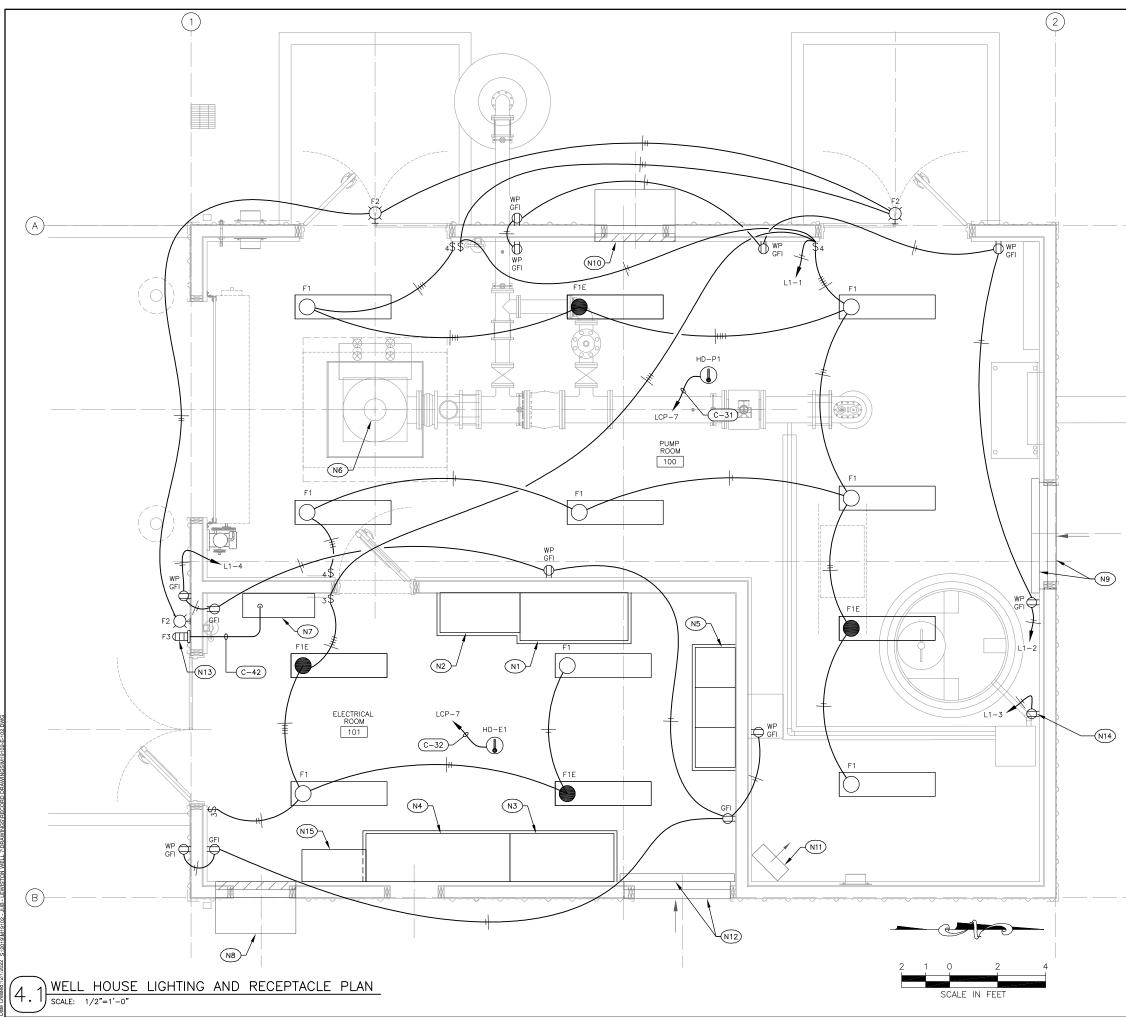
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(JUB) J-U-B ENGINEERS, INC. J-U-B ENGINEERS, INC. I-A 83501 rd Ave. ₽⊇ 1630 23r Suite 1 wiston. ē 18028 12/01/22 MINGS DESIGNS SSIONAL THIS DOO HEREIN., PROPER, WHOLE O WRITTEN - 0 @ < CITY OF LEWISTON WELL NO. 7 ELECTRICAL SCHEDULES JUB PROJ. # : RAWN BY: TLS DESIGN BY: SRJ CHECKED BY: SHJ CHECKED BY: RJW I ONE INCH I AT FULL SIZE, IF NOT ONE INCH. SCALE ACCORDINGLY LAST UPDATED: 12/01/22 SHEET NUMBER: E-005



NOT	ES: (for this sheet) MAIN SWITCHBOARD.	1038 W. Davidson Avenue Coeur d'Alene, ID 83314 (208) 666-4001 office (208) 666-4021 fax	J-U-B ENGINEERS, INC.
N2 N3 N4 N5	AUTOMATIC TRANSFER SWITCH. PASSIVE HARMONIC FILTER. WELL PUMP VFD ENCLOSURE. OVERHEAD DOOR MOTOR AND DISCONNECT. COORDINATE WITH DOOR SUPPLIER TO PROVIDE ALL REQUIRED CONTROL STATION AND SAFETY CONDUIT AND WRE.	porated	J-U-B ENGINEERS, INC. 1630 23rd Ave. Suite 1101-A Lewiston, ID 83501 Phone: 208.746.9926 www.jub.com
N6 N7 N8 N9	WELL PUMP AND MOTOR. LOCAL CONTROL PANEL "LCP-7". MOTOR CONTROL CENTER "MCC-7". HVAC "HVAC-1".		J-U-B ENGI 1630 2: Suite Lewiston, Phone: 20 Fax: 220 Fax: 220
	MOTORIZED LOUVER "ML-1" AND FILTER HOLDER "FH-1". HVAC "HVAC-2". UNIT HEATER "EUH-1". METERING PUMP. HOUSEKEEPING PAD, 3-1/2". RTD TEMPERATURE ELEMENTS, QTY (5).		18028 18
$\begin{pmatrix} & & \\ & $	MOTORIZED LOUVER "ML-2" AND FILTER HOLDER "FH-2". LEVEL TRANSDUCER "W7-LT-100". FLOW INDICATING TRANSMITTER "W7-FIT-100" AND "W7-FE-100". CHLORINE ANALYZER. PRESSURE SWITCH HIGH "PSH-101". LEVEL SWITCH "LSL-101".		: tess 5/28/21 4/26/21 4/26/21 1/29/21 DATE DATE
N2 (N22) (N23) (N24) (N25)	PRESSURE INDICATING TRANSMITTER "W7-PIT-101" AND PRESSURE INDICATOR "W7-PI-101". CELLULAR ANTENNA MOUNTED ON THE EXTERIOR OF THE BUILDING 12'-0" AFG. HIGH PRESSURE SWITCH "W7-PSH-100". WITH PRESSURE INDICATOR "W7-PI-100". EMERGENCY STOP SWITCH "ESS".		THIS DOCUMENT AND THE DES DRAMINES THIS DOCUMENT AND THE DES DRAMINES THIS DOCUMENT AND THE DES DRAMINES HIGH STATEMENT PROPERSIONAL REWALLS IN HE PROPERTY OF 1.445 ENOIDERSIONAL REWALLS IN HIT WITTEN AUTHORIZATION OF 1.445 ENOIDERS, INC. WRITTEN AUTHORIZATION OF 1.445 ENOIDERS, INC. TELS 1841 0500 2 RECORD DRAWINGS 2 RECORD DRAWINGS 2 RECORD DRAWINGS 2 RECORD DRAWINGS 3 A DDE OUT 1 TELS 1841 0503 4 A DDE OUT 1 TELS 1000000000000000000000000000000000000
(N20) (N27)	VFD DISCONNECT. PRV POSITION SWITCH "W7-ZS-101".		CITY OF LEWISTON WELL NO. 7 WELL HOUSE POWER AND CONTROL PLAN
F	RECORD DRAWING	.,	FILE : M19102E-101 JUE PROJ. #: DRAWN BY: TLS DESIGN BY: SRJ CHECKED BY: RJW IONE INCHI AT FULL SIZE, IF NOT ONE INCH. SIZALE ACCORDINGLY LST UPDATE: 1201/22 SHEET NUMBER: E-101

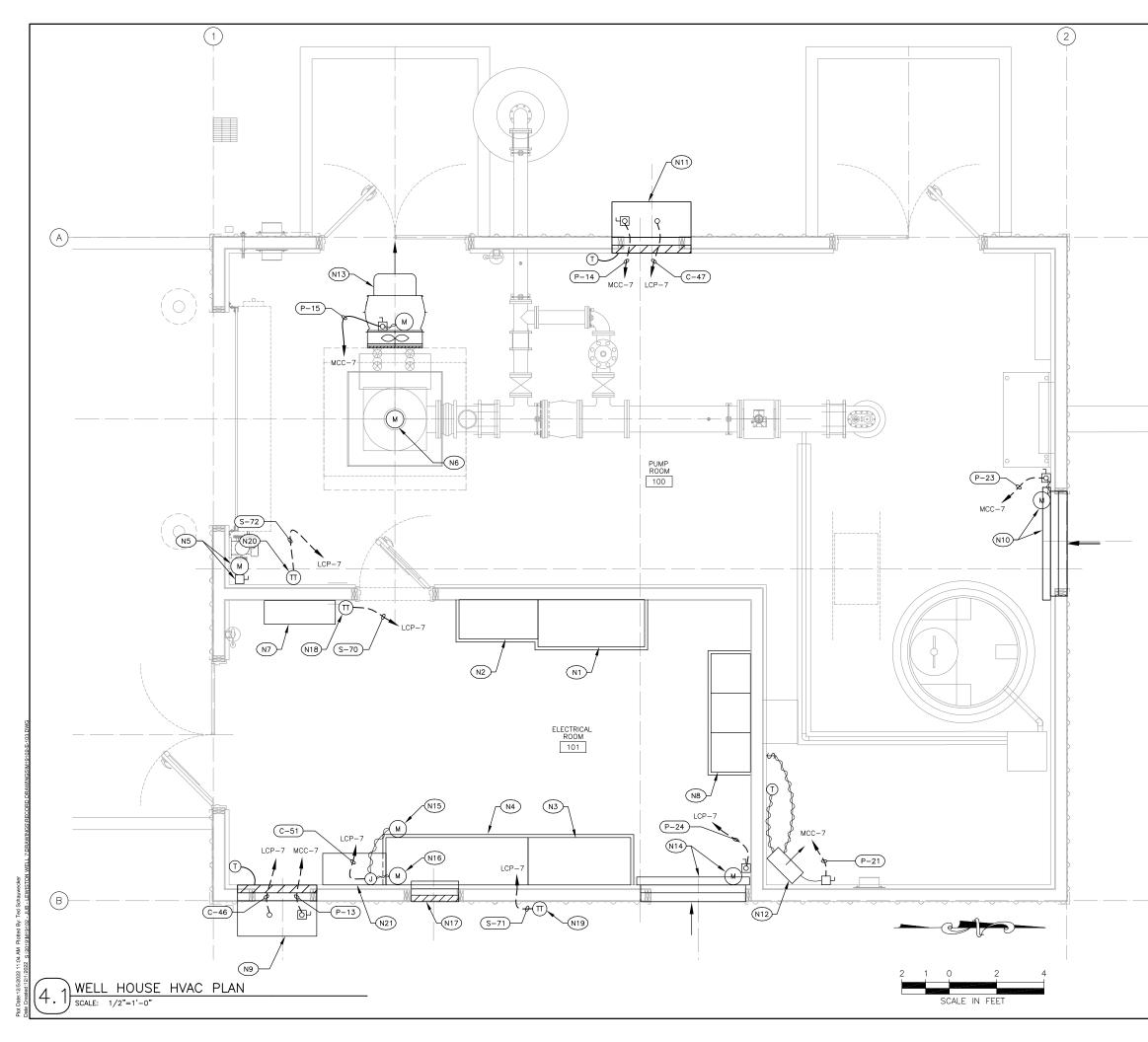


## NOTES: (for this sheet) (N1) MAIN SWITCHBOARD. (N2) AUTOMATIC TRANSFER SWITCH. N3 PASSIVE HARMONIC FILTER.

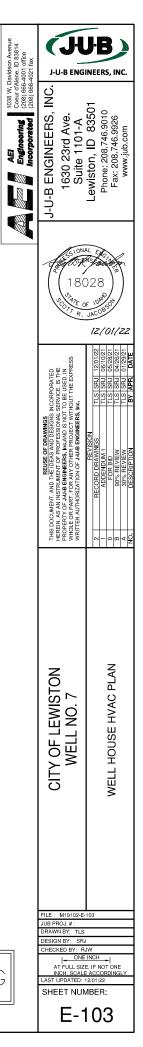
- N4 WELL PUMP VFD ENCLOSURE. N5 MOTOR CONTROL CENTER "MCC-7".
- N6 WELL PUMP AND MOTOR. N7 LOCAL CONTROL PANEL "LCP-7".
- N8 HVAC UNIT "HVAC-1".
- N9 MOTORIZED LOUVER "ML-1" AND FILTER HOLDER "FH-1"..
- (N10) HVAC UNIT "HVAC-2".
- (N1) UNIT HEATER "EUH-1".
- (N12) MOTORIZED LOUVER "ML-2" AND FILTER HOLDER "FH-2".
- (N13) ALARM BEACON.
- (N14) METERING PUMP RECEPTACLE.
- (N15) VFD DISCONNECT.

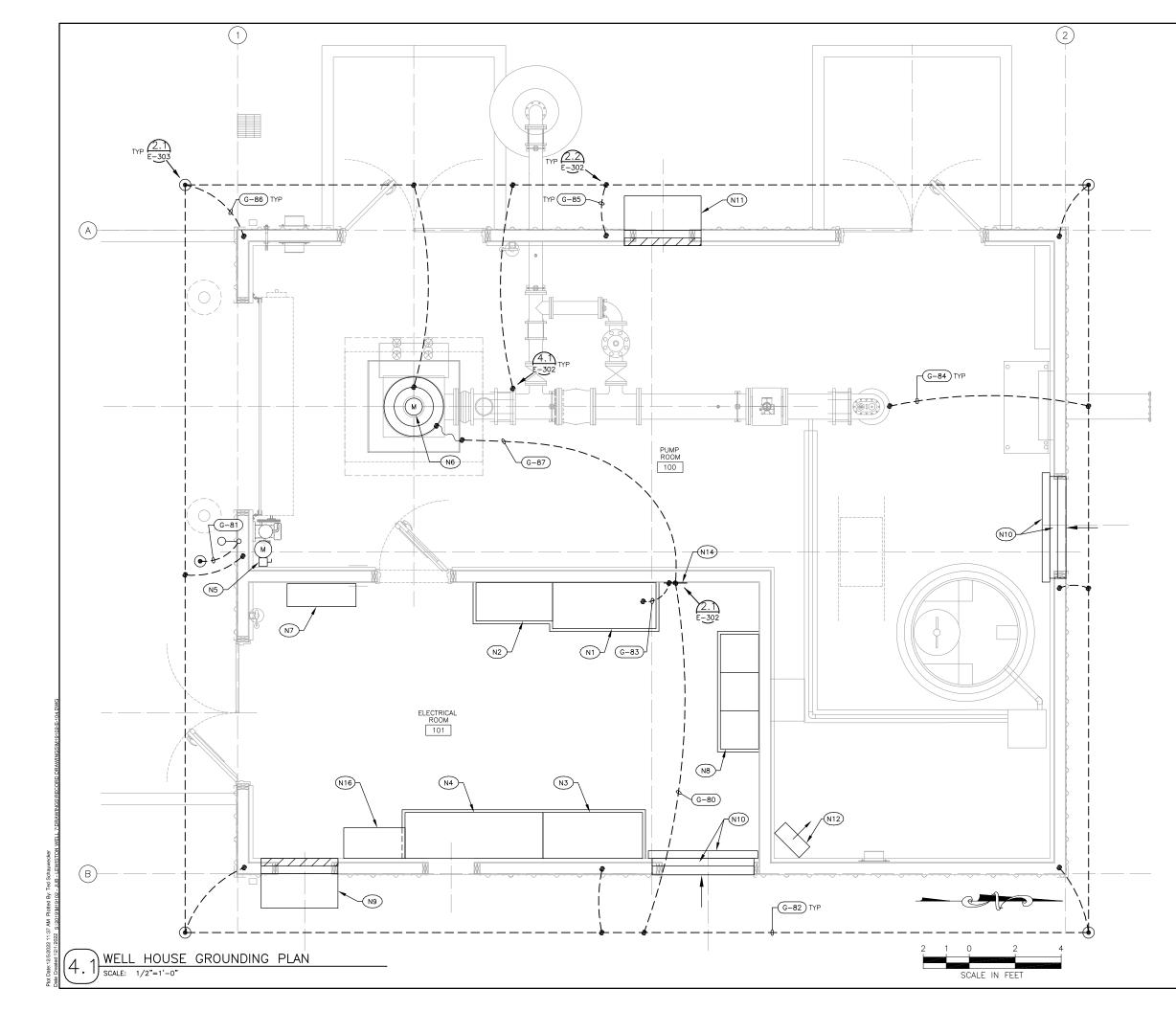
(JUB) son Avenue ID 83814 I office 1038 W. Davldso Coeur d'Alene, IE (208) 666-4001 o (208) 666-4001 o J-U-B ENGINEERS, INC. NC N RS, neering ш AEI Engli Incori ENGIN 630 2( Suite ¶. € Ч-Р X YAN 18028 12/01/22 INCORPORATED SERVICE, IS THE TO BE USED, IN HOULT THE EXPRE THIS DOO HEREIN, PROPER WELL HOUSE LIGHTING AND RECEPTACLE PLAN CITY OF LEWISTON WELL NO. 7 JUB PROJ. # BAWN BY: TUS ESIGN BY: SRJ CHECKED BY: SHJ CHECKED BY: RJW ONE INCH AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGL LAST UPDATED: 12/01/22 SHEET NUMBER:

E-102



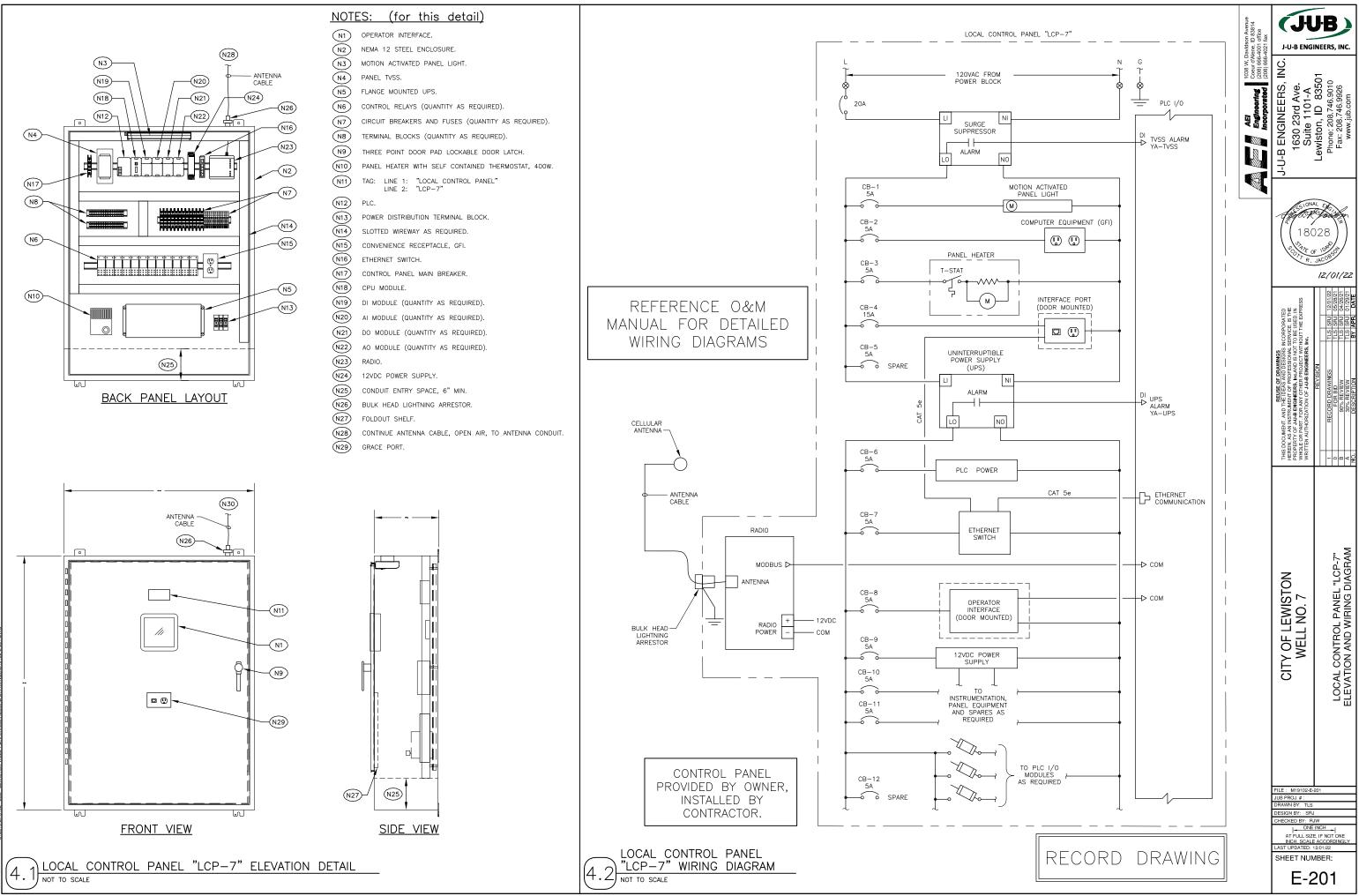
NOTE	<u>ES: (for this sheet)</u>
N1	MAIN SWITCHBOARD.
N2	AUTOMATIC TRANSFER SWITCH.
N3	PASSIVE HARMONIC FILTER.
N4	WELL PUMP VFD ENCLOSURE.
N5	OVERHEAD DOOR MOTOR AND DISCONNECT.
N6	WELL PUMP AND MOTOR.
N7	LOCAL CONTROL PANEL "LCP-7".
NB	MOTOR CONTROL CENTER "MCC-7".
N9	HVAC UNIT "HVAC-1", WITH REMOTE MOUNTED DIGITAL THERMOSTAT. PROVIDE CONDUIT AND WIRE FOR THERMOSTAT AS REQUIRED.
N10	MOTORIZED LOUVER "ML-1" AND FILTER HOLDER "FH-1".
N11	HVAC UNIT "HVAC-2", WITH REMOTE MOUNTED DIGITAL THERMOSTAT. PROVIDE CONDUIT AND WIRE FOR THERMOSTAT AS REQUIRED.
N12	UNIT HEATER "EUH—1" WITH FAN ONLY SWITCH.
N13	VENTILATION BLOWER "VB-1".
N14	MOTORIZED LOUVER "ML-2" AND FILTER HOLDER "FH-2".
N15	VFD VENTILATION EXHAUST DAMPER "LV-1".
N16	VFD VENTILATION EXHAUST DAMPER LV-2".
N17	24" X 16" BACK DRAFT DAMPER.
N18	TEMPERATURE TRANSMITTER "W7-TT-122".
N19	TEMPERATURE TRANSMITTER "W7—TT—123", MOUNTED 8'—0" AFG.
N20	TEMPERATURE TRANSMITTER "W7-TT-124".
N21	VFD BREAKER.

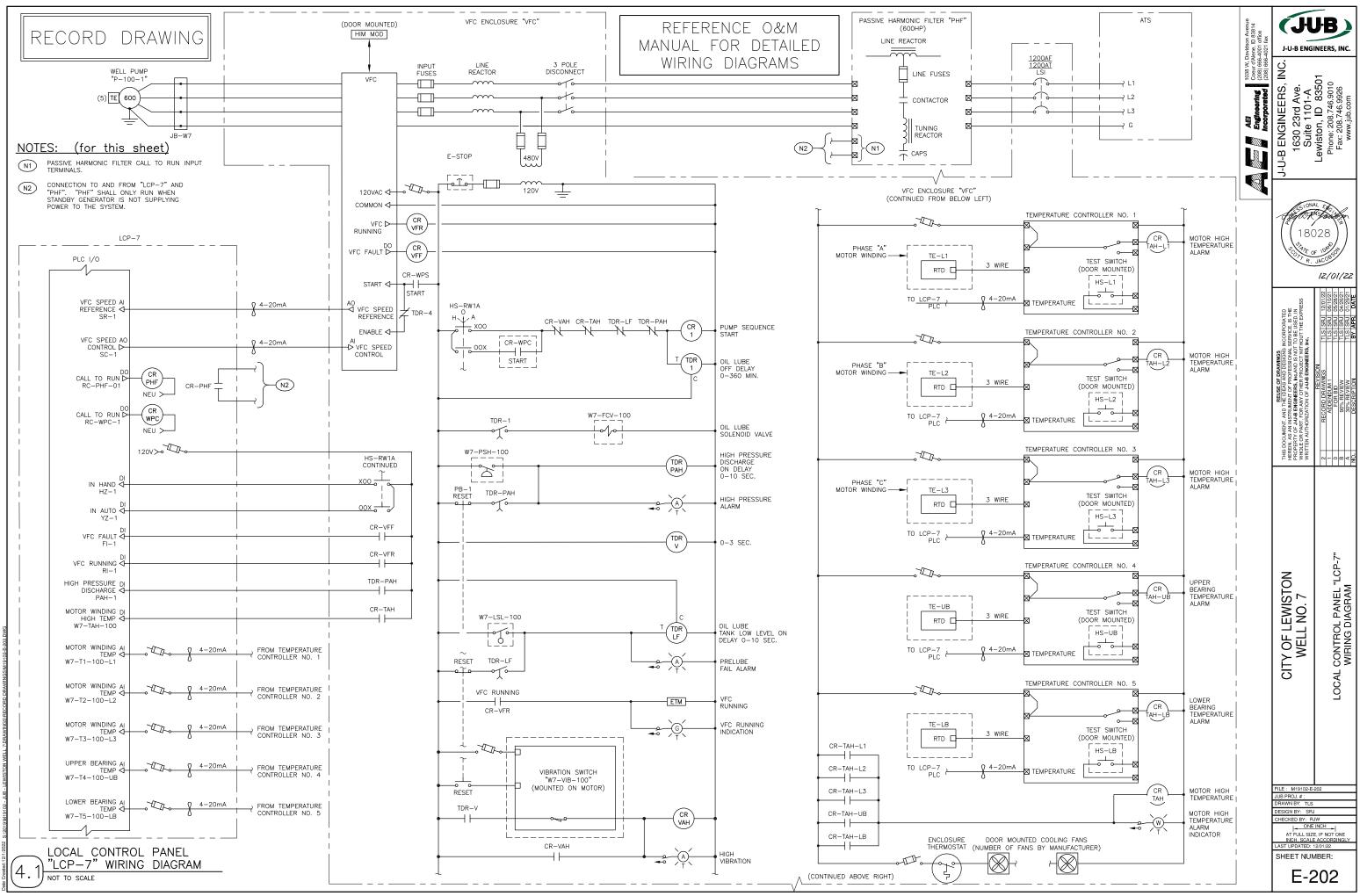


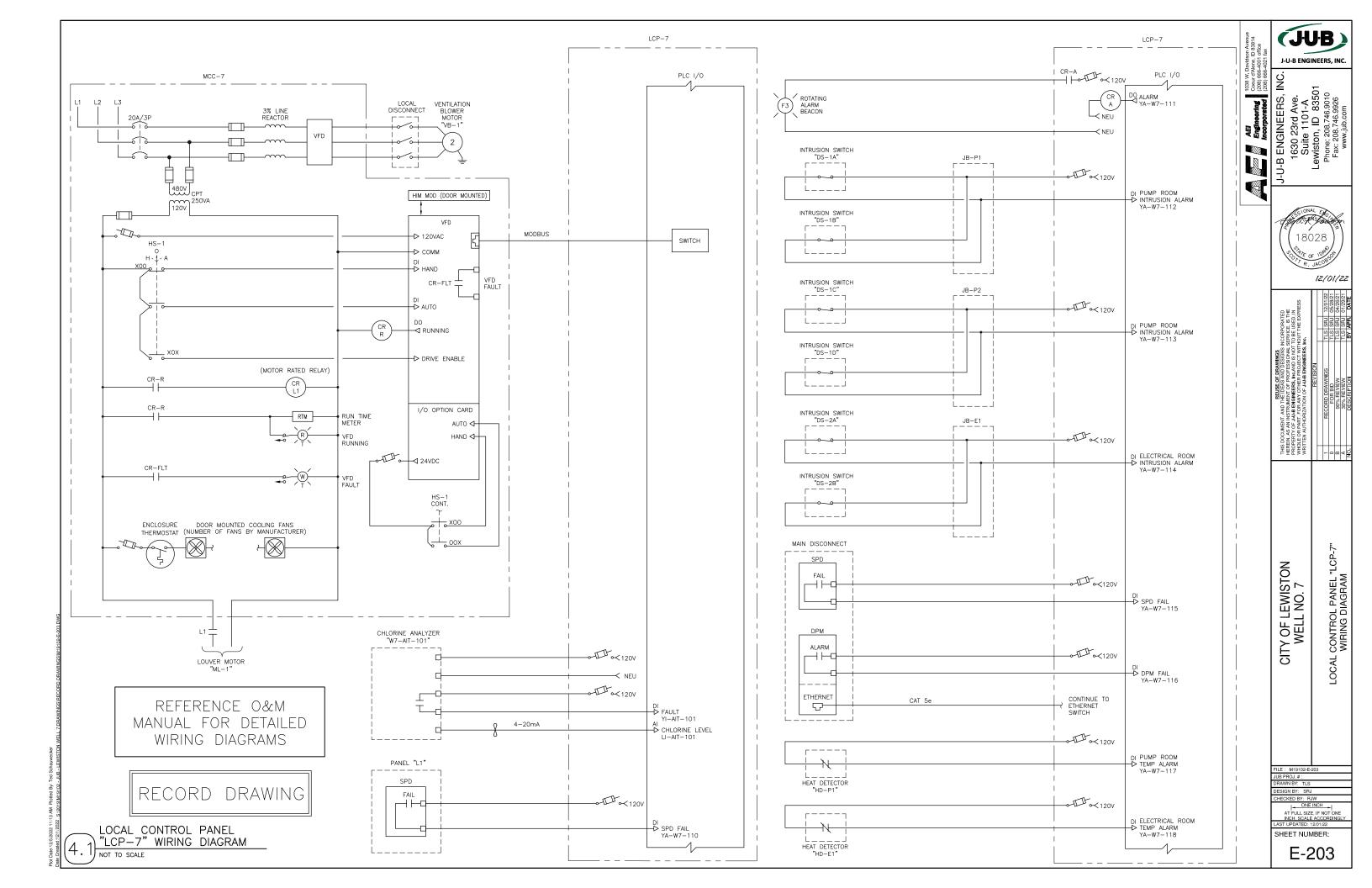


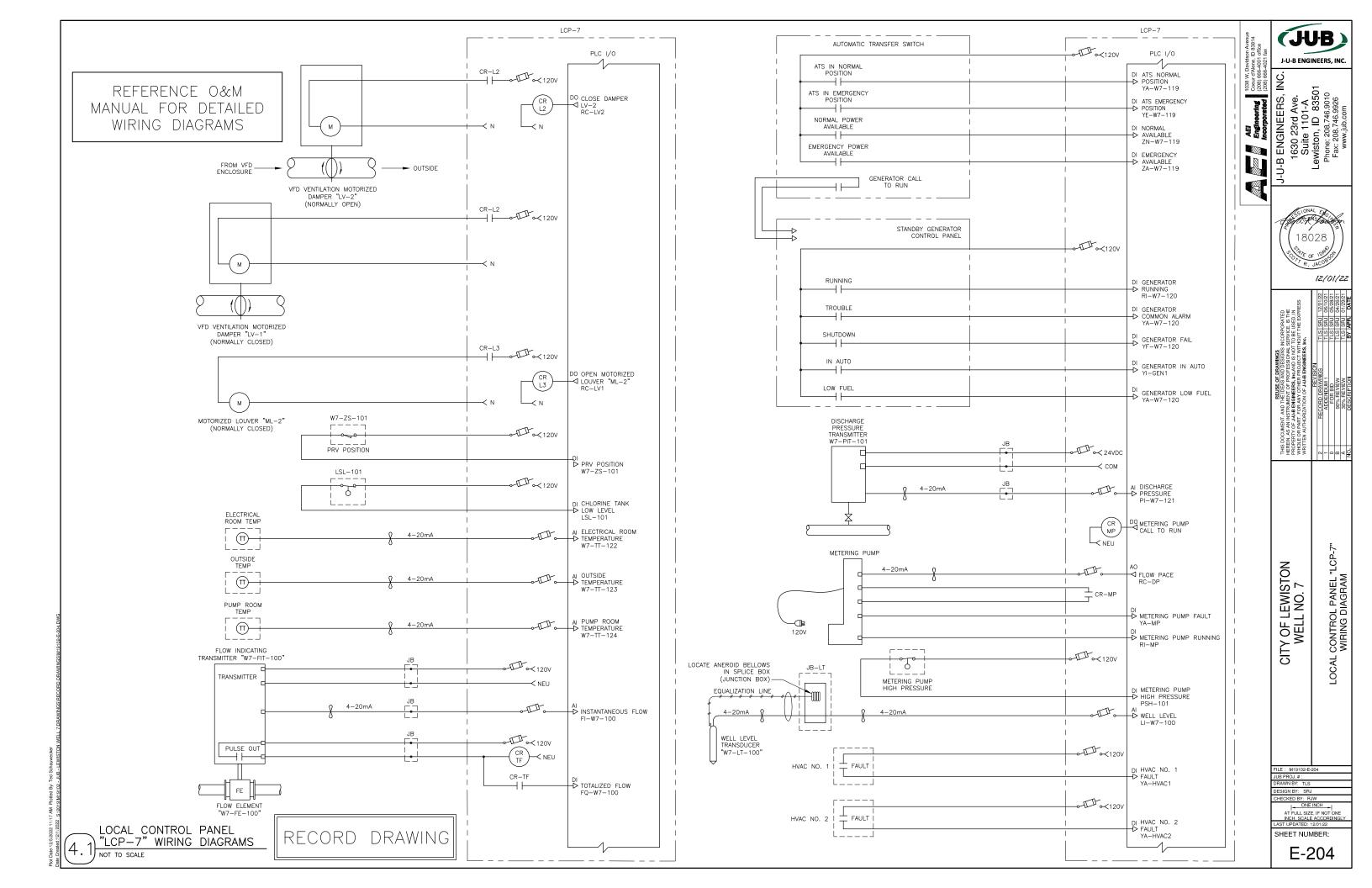
NOT	<u>ES: (for this sheet)</u>	Avenue 83814 fice
N1	MAIN SWITCHBOARD.	õ⊆ b
N2	AUTOMATIC TRANSFER SWITCH.	M. Davids d'Alene, 666-4001
N3	PASSIVE HARMONIC FILTER.	1038 W. Davlds Coeur d'Alene, (208) 666-4001
N4	WELL PUMP VFD ENCLOSURE.	
N5	OVERHEAD DOOR MOTOR AND DISCONNECT.	AEI Engineering
N6	WELL PUMP MOTOR AND MOTOR CASING.	
N7	LOCAL CONTROL PANEL "LCP-7".	a B
N8	MOTOR CONTROL CENTER "MCC-7".	
N9	HVAC "HVAC-1".	
N10	MOTORIZED LOUVER "ML-1" AND FILTER HOLDER "FH-1".	
N11	HVAC "HVAC-2.	
N12	UNIT HEATER "EUH-1".	
N13	TELEMETRY ANTENNA.	
N14	MAIN GROUND BUS.	
N15	VFD BREAKER.	
N16	VFD DISCONNECT.	

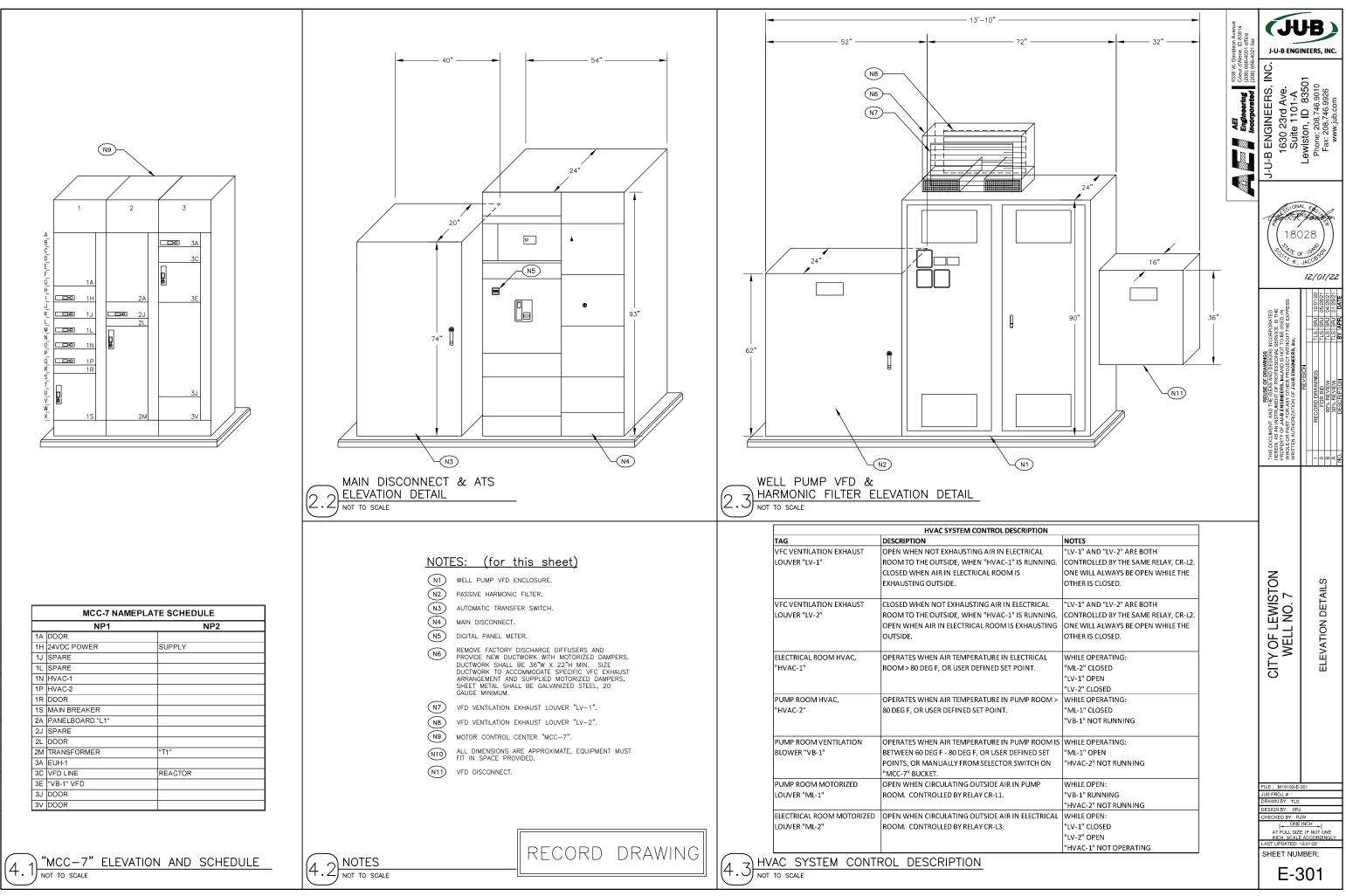
Ŷ	(H	JB)
6-4021 fa:	J-U-B ENG	NEERS, INC.
Incorporated (208) 666-4021 fax	J-U-B ENGINEERS, INC. 1630 23rd Ave. Suite 1101-A	Lewiston, ID 83501 Phone: 208.746.9010 Fax: 208.746.9926 www.jub.com
4		12/01/22
	REUSE OF DRAWINGS THIS DOCUMENT, AND THE IDEX SAND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE. IS THE PROPERTY OF JUSH BROWINGS IN ONT TO BE LUSED IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF JUJB ENGINEERS, INC.	REVISION         REVISION           1         RECORD DRAWINGS         1.5         541         1201/22           0         90% REVIEW         1.5         541         1201/22           A         90% REVIEW         1.5         541         04/26/21           A         90% REVIEW         1.5         541         04/26/21           NO.         DESCRIPTION         1.5         541         04/26/21
	CITY OF LEWISTON WELL NO. 7	WELL HOUSE GROUNDING PLAN
	AT FULL SIZE INCH, SCALE LAST UPDATED: 1 SHEET NUN	IW INCH   E, IF NOT ONE E ACCORDINGLY 2/01/22

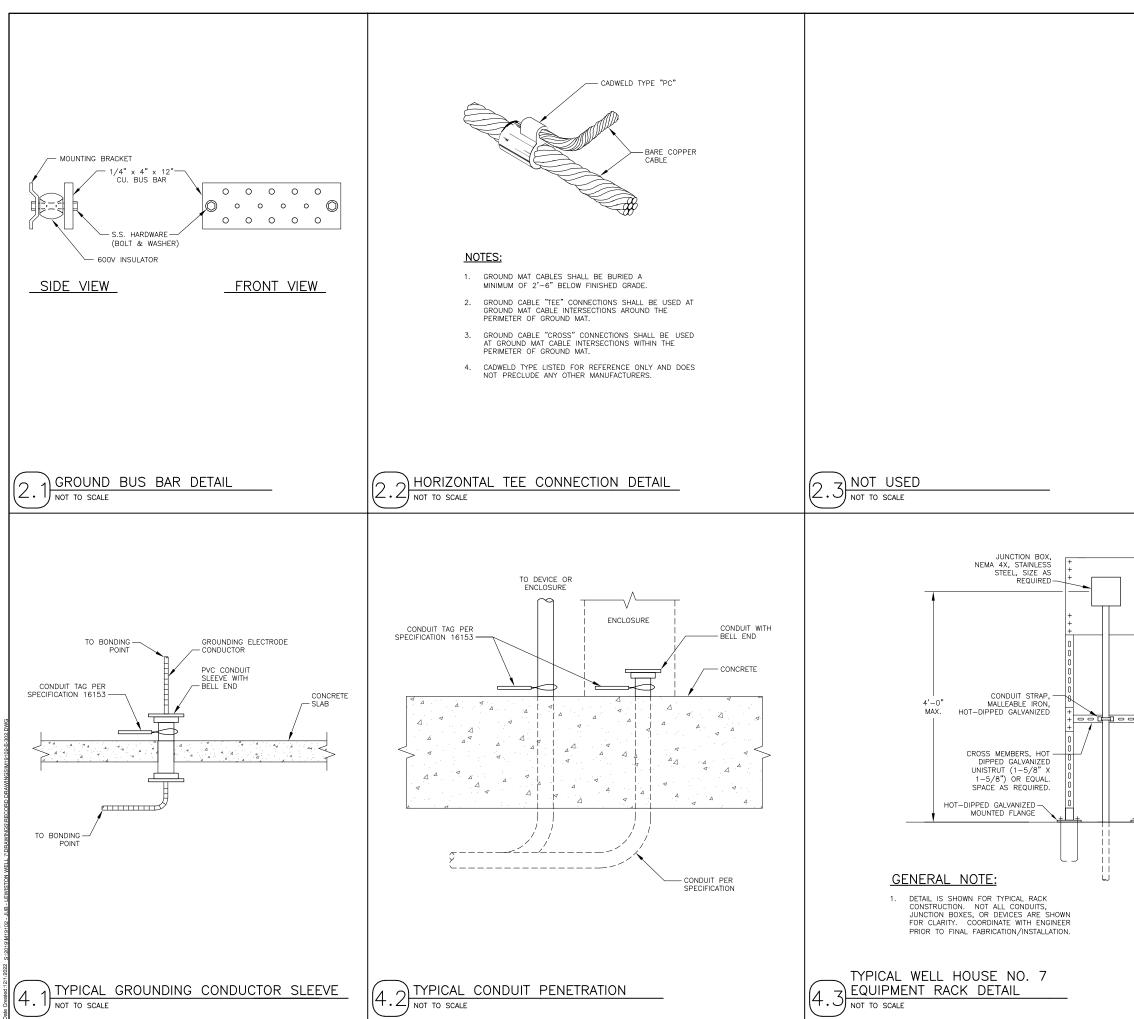




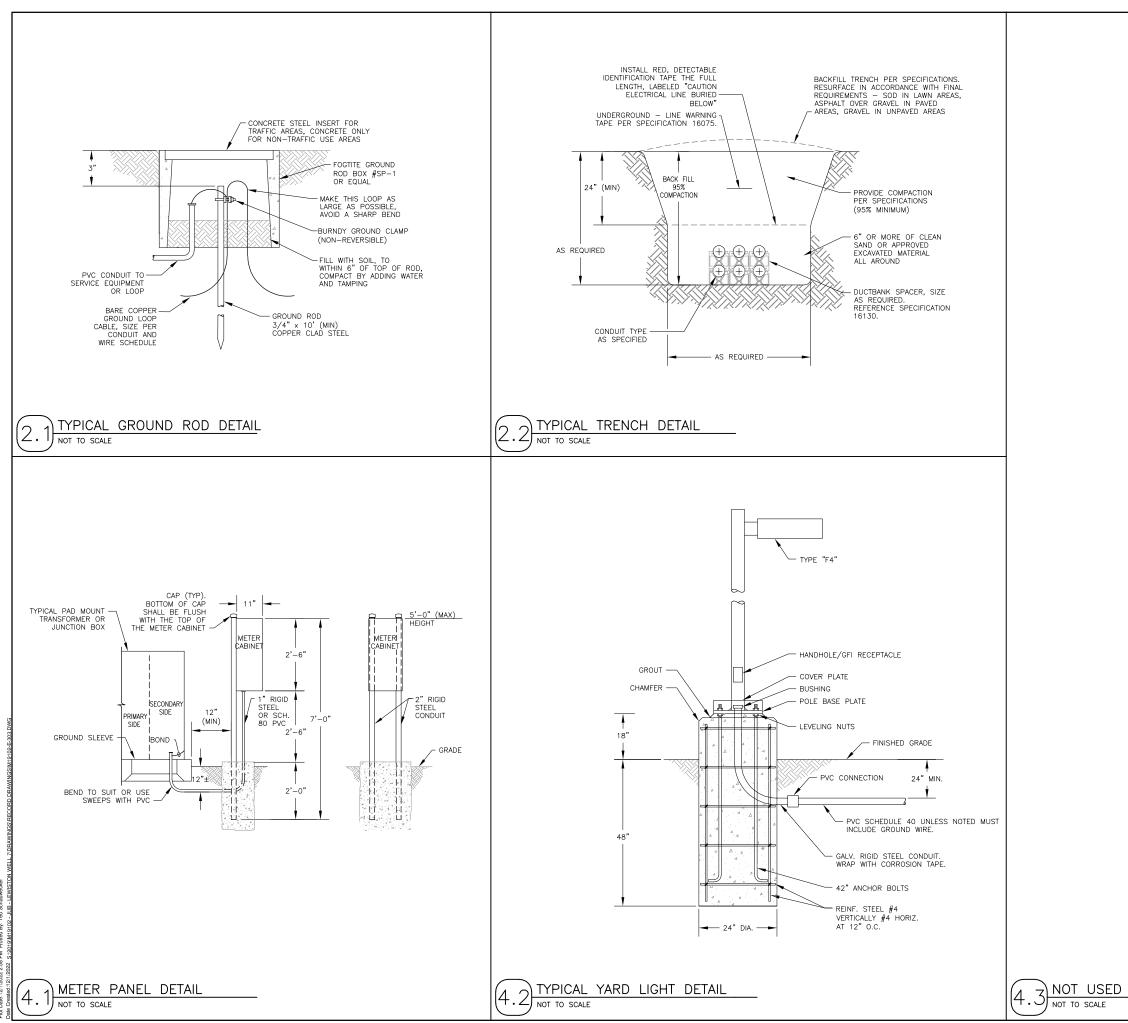






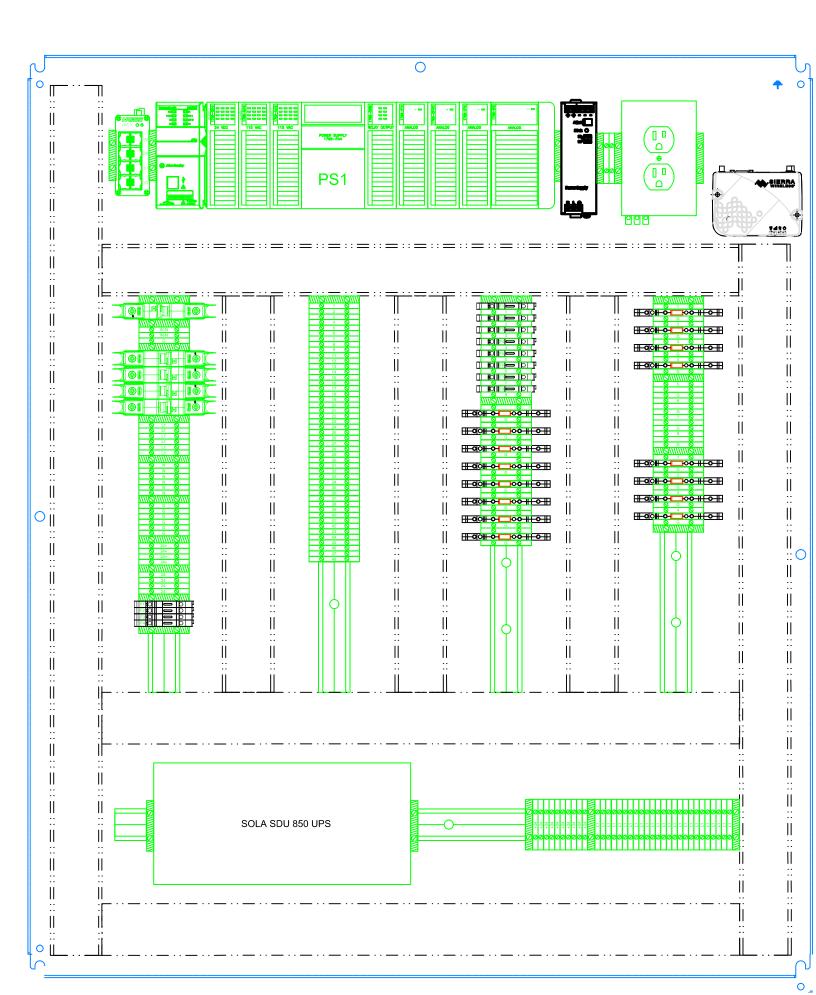


<ul> <li>Aliante (103 W. Davidson Arenue Count of Alante (103 W. Davidson Arenue Count of Alante (10 58) (4 Count of Alante (10 58) (4)</li> </ul>	NO.	Lewiston, ID 83501 Phone: 208.746.9010 Fax: 208.746.9010 www.jub.com
	SCOTT R.	12/01/22
	REUSE OF DRAWINGS THIS DOCUMENT, AND THE IDEAR AND DESIGNS INCORPORATED HERRIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE REPERTY OF LAJUE BROWERS, INANOI SI OTO BE LUSED IN WHOLE OF PART, FOR ANY OTHER PROLETY WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF JJJB ENGINEERS, INC.	FEVISION         FEVISION           1         RECORD PRAVINGS         11.5         54.0         52.0122           0         9.0%         11.5         54.0         52.0123           0         9.0%         11.5         54.0         52.0123           0         9.0%         11.5         54.0         52.0123           0         9.0%         8.0%         11.5         54.0         0.42621           A         9.0%         8.0%         11.5         54.0         0.42621           A         9.0%         8.0%         11.5         54.0         0.42621           No         0.50         11.6         11.5         54.0         0.42621           No         0.50         11.0%         11.5         54.0         0.42621
+ + + (3/16" THICK) OR EQUAL. SIZE AS REQUIRED. + +		
UPRIGHTS, HOT DIPPED GALVANIZED, DOUBLE BACKED UNISTRUT (1-5/8" x 1-5/8" x 1/4") OR EQUAL. ALL CONNECTION HARDWARE SHALL BE STAINLESS STEEL.	CITY OF LEWISTON WELL NO. 7	ELECTRICAL DETAILS
STAINLESS STEEL ANCHOR BOLTS WITH STAINLESS STEEL LEVELING NUTS AND WASHERS (TYP).	FILE : M19102-E- JUB PROJ. # :	302
RECORD DRAWING	DRAWN BY: TLS DESIGN BY: SR, CHECKED BY: R AT FULL SIZ INCH, SCALE LAST UPDATED: SHEET NUM	JW INCH E, IF NOT ONE E ACCORDINGLY 12/01/22



t Date: 12/1/2022 2:58 PM Plotted By: 9 Created: 12/1/2022 2:2019/M19102

			-	_
		1038 W. Davidson Avenue Coeur d'Alene, ID 83814 (208) 666-4001 office (208) 666-4021 fax		J-B NEERS, INC.
			J-U-B ENGINEERS, INC. 1630 23rd Ave. Suite 1101-A	83501 6.9010 9926 om
		AEI Engineering Incorporated	J-B ENGINEERS, I 1630 23rd Ave. Suite 1101-A	ewiston, ID 8350 Phone: 208.746.9010 Fax: 208.746.9926 www.jub.com
			J-U-B 1	Lev
	L	_	180 950/17 R.	)28
			Ess	12/01/22 05/28/21 01/29/21 01/29/21 DATE
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			THIS DOCUMENT, AND THE IDE OF DRAWINGS THIS DOCUMENT, AND THE IDES AND DEGRESSIS INCORPOPATED HEREIN, SA MINSTRUMENT OF PROFESSIONAL SERVICE. IS THE PROPERTY OF AU-DAB ENDRIERS, MAANUD NOTTO BE LUSED IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE EXP WRITTEN AUTHORIZATION OF JJJB ENDRIERS, INC.	RECORD DRAWINGS FOR BID 90% REVIEW 30% REVIEW DESCRIPTION
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			7	
			WISTON	- DETAILS
			CITY OF LEWISTON WELL NO. 7	ELECTRICAL DETAILS
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			FILE : M19102-E-	303
			JUB PROJ. # : DRAWN BY: TLS DESIGN BY: SRJ	
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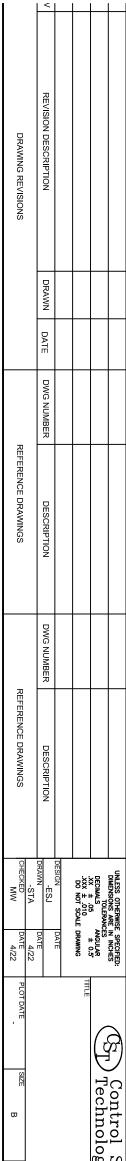
					CAL SYMBOLS LEGEND				
	SYMBOL	DESCRIPTION	S`	YMBOL	DESCRIPTION	SYMBOL	DESCRIP	TION	
	þ	SINGLE POLE CIRCUIT BREAKER (SIZE AS INDICATED)	o-	<u>)</u> #	PILOT LIGHT R = RED G = GREEN A = AMBER		HORN		
		TWO POLE CIRCUIT BREAKER (SIZE AS INDICATED)			B = BLUE	ØTB#-### OR	TERMINAL BLOCK CON	INECTION	
	$\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	THREE POLE CIRCUIT BREAKER (SIZE AS INDICATED)		-RES0	RHEOSTAT/POT.				
	þ	FUSE (SIZE AS INDICATED)		MTR	1-PHASE MOTOR (HORSEPOWER AS INDICATED)		GROUND — WIRING		
	γ	THERMAL OVERLOAD DEVICE		HP			FIELD WIRING		
		DELTA TO WYE, 2-WINDING TRANSFORM (SIZE AND TYPE AS INDICATED)	IER (	MTR	3-PHASE MOTOR (HORSEPOWER AS INDICATED)	• OR	O WIRING CONNECTION TERMINATION	OR	
		SINGLE PHASE CONTROL TRANSFORMER (SIZE AND TYPE AS INDICATED)		HP	SINGLE BREAK, N.C. SPST SWITCH	OR		TED	
	9 9			0_0_0			o		
		NORMALLY OPEN CONTACT	1	° ° 2 29	SINGLE BREAK, N.O. SPST SWITCH	• <b>①</b> •	PHOTO EYE		
		NORMALLY CLOSED CONTACT		10 0 30	SINGLE BREAK, SPDT SWITCH				
	o-C <b>-</b> ⊙	SHUNT COIL		$ \begin{array}{c} 0 \\ 1 \\ 2 \\ 0 \\ 3 \\ 4 \end{array} $	SINGLE BREAK, (2)N.C. DPST SWITCH				
	$\frac{1}{\begin{array}{c}0&0\\1&2\end{array}}$	NORMALLY-OPEN MOMENTARY PUSHBUTTON		$1^{\circ} \xrightarrow{\circ} 2_{2}$ $0^{\circ} \xrightarrow{\circ} 0_{4}$	SINGLE BREAK, (2)N.O. DPST SWITCH				
	10102 10102 30 04	NORMALLY-CLOSED MOMENTARY PUSHBUTTON NORMALLY-CLOSED/NORMALLY- OPEN MOMENTARY PUSHBUTTON		$ \begin{array}{c}                                     $	SINGLE BREAK, DPDT SWITCH				
	$^{1}_{3} \bigcirc ^{2}_{3} \bigcirc ^{2}_{0} \bigcirc ^{4}_{4}$	NORMALLY-CLOSED/NORMALLY-OPEN MUSHROOM HEAD MOMENTARY PUSHBI		6 Op	LIMIT SWITCH, NORMALLY-CLOSED				
	$3 \rightarrow 6^{4}$ $1 \rightarrow 6^{2}$ $\downarrow$ $\downarrow \pi$	TWO CIRCUIT MAINTAINED PUSHBUTTO	N	$\sqrt[6]{\circ}$	LIMIT SWITCH, NORMALLY-OPEN				
	o₩O	ILLUMINATED PUSHBUTTON R = RED G = GREEN		Ţ	PRESSURE OR VACUUM SWITCH, NORMALLY-CLOSED				
	<u>olo</u> o o	A = AMBER B = BLUE			PRESSURE OR VACUUM SWITCH, NORMALLY-OPEN				
								UNLESS OTHERWISE SPECIFI	ED: Contr
								UNLESS OTHERWISE SPECIFI DIMENSIONS ARE IN INCHE TOLERANCES DECIMALS ANGULAR .XX ± .05 ± 0.5 .XXX ± .010 DO NOT SCALE DRAWING	
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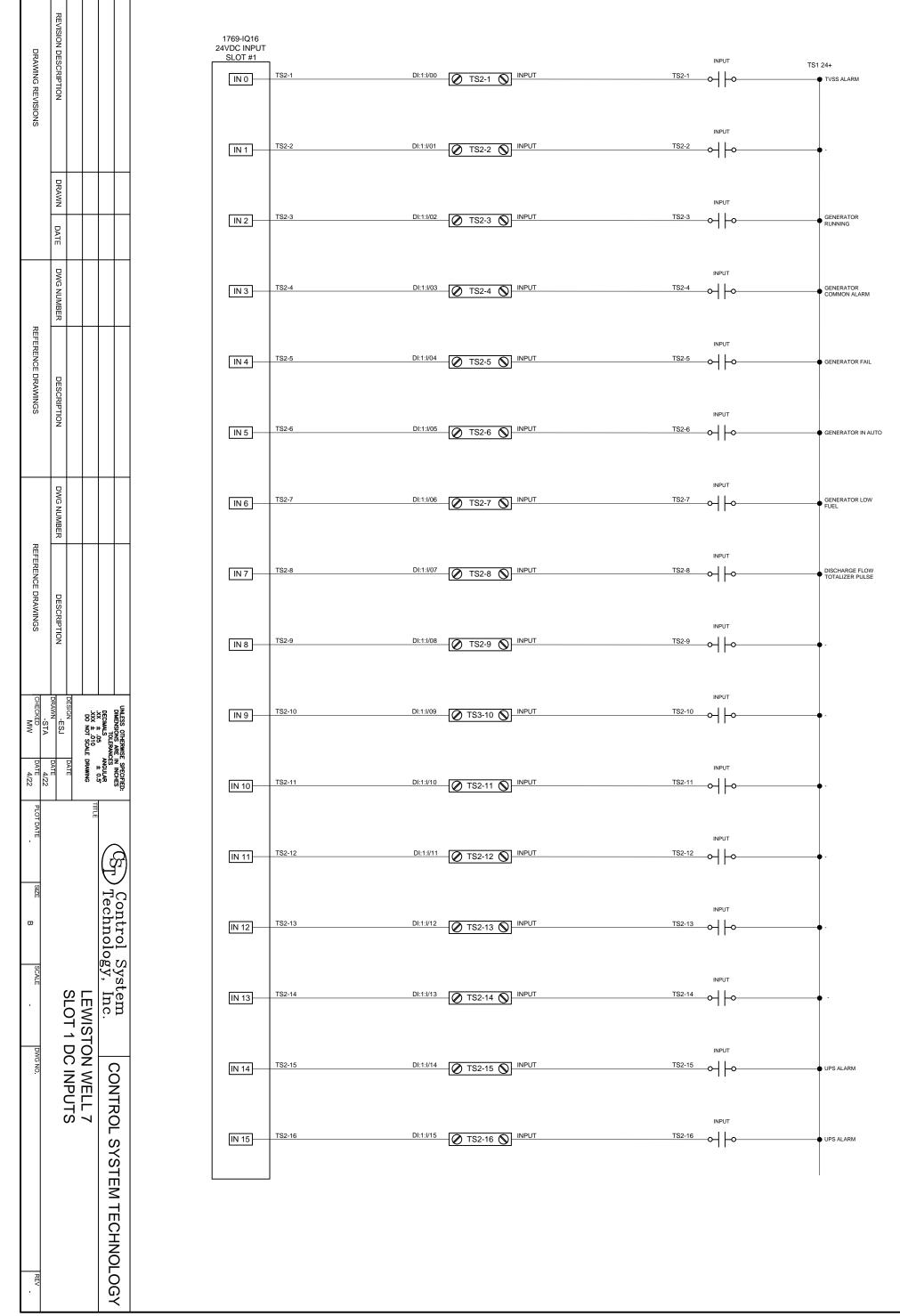
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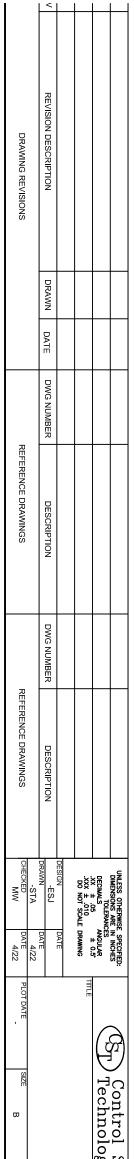
# WADA QUINOA PLANT ELECTRICAL SYMBOLS

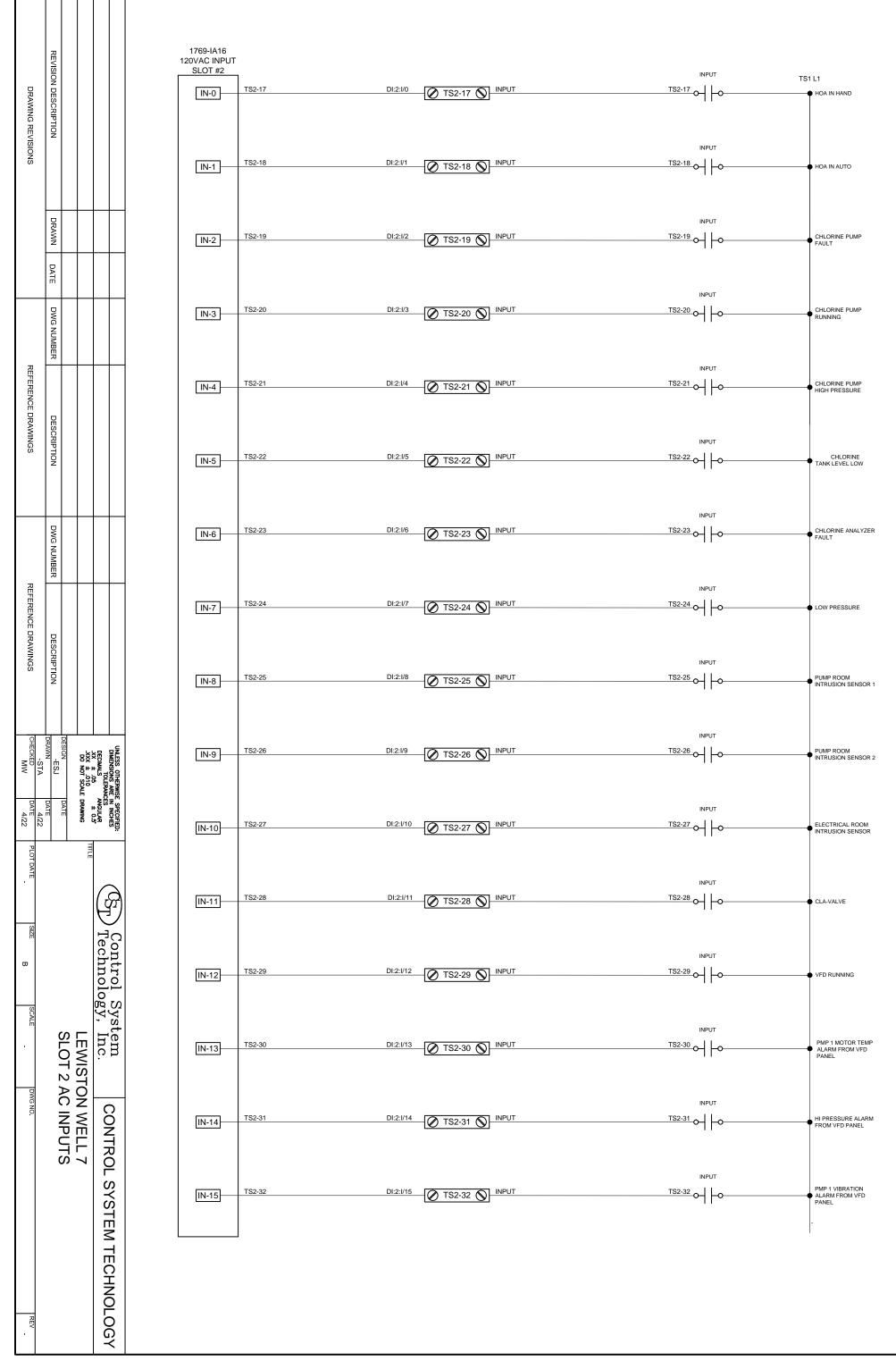
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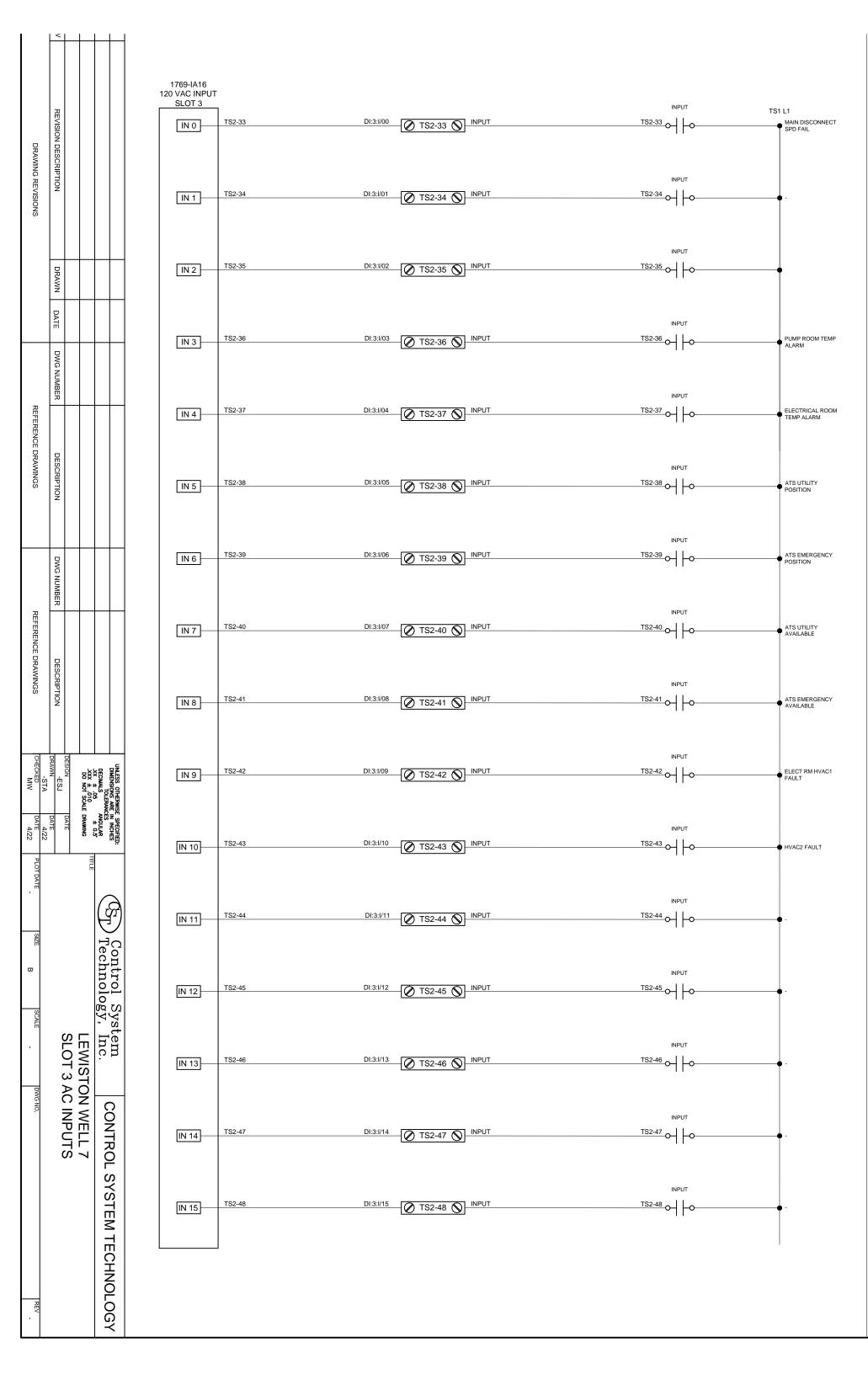
WADA FARMS



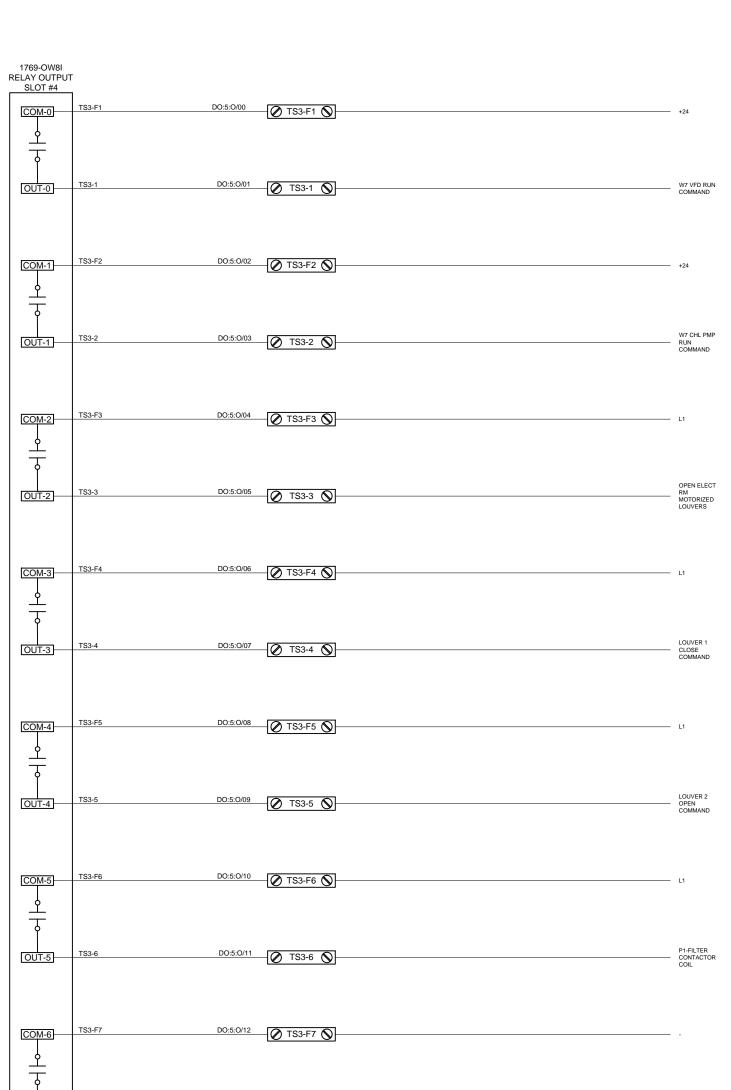


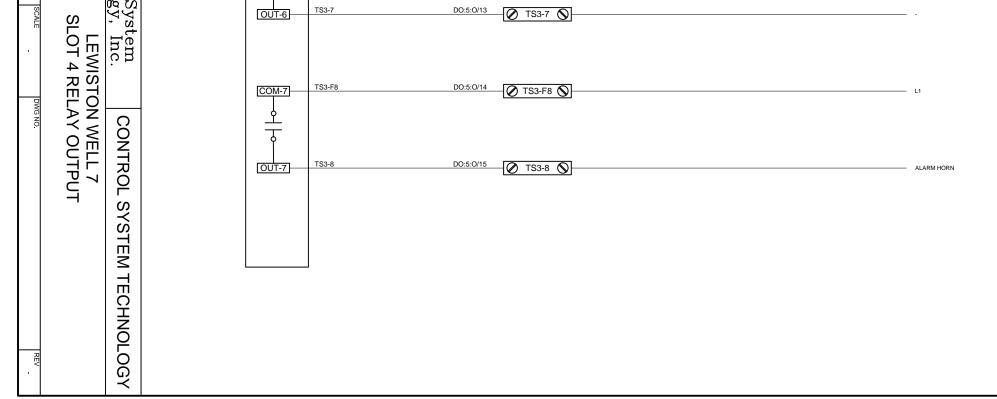




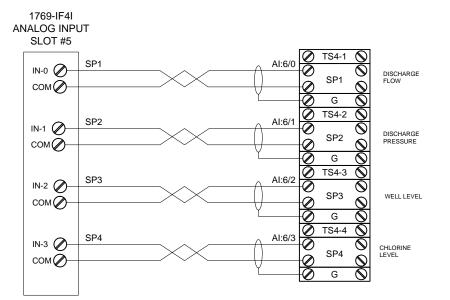


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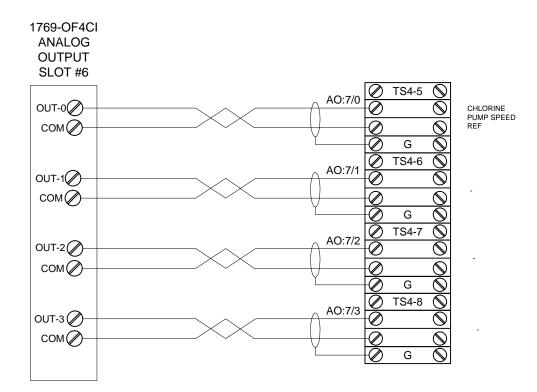


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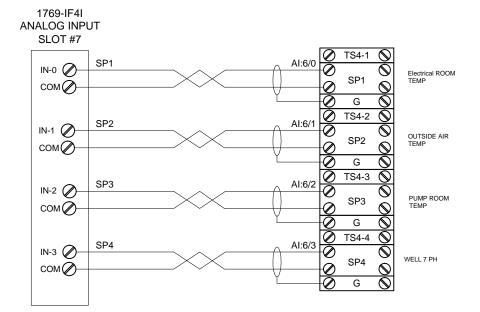
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