

AGREEMENT
between
WEBER COUNTY
and
COLE CANYON WATER COMPNAY
for access and installation of a chlorinator and associated structure

This agreement ("Agreement") is between **WEBER COUNTY**, a body corporate and politic of the State of Utah on behalf of the Weber County Culture, Parks, and Recreation Department ("County") and **COLE CANYON WATER COMPANY** ("Cole Canyon"). County and Cole Canyon may be referred to jointly as the "parties."

RECITALS

WHEREAS, County owns and operates the North Fork Park (the "Park") located in Weber County's upper valley; and

WHEREAS, Cole Canyon has petitioned the County for access through a portion of County's Park for the purpose of installing a chlorinator and associated structure; and

WHEREAS, County has agreed to allow Cole Canyon temporary and limited access to construct or cause to be constructed a chlorinator and associated structure at a location specified in this agreement and subject to the term and conditions contained in this Agreement; and

THEREFORE, in exchange for valuable consideration, including the mutual covenants contained in this Agreement, the Parties covenant and agree as follows:

1. **SCOPE OF AGREEMENT**

Cole Canyon shall be permitted to access the County's Park for the purpose of installing a chlorinator and associated structure as described in the engineering plans attached to this Agreement as **Exhibit A** and at the location specified in the engineering plans attached to this Agreement as **Exhibit A**.

Cole Canyon shall be responsible for restoration of any and all of the land disturbed by the installation of said chlorinator and associated structure. Any disturbance must be returned to an original or better than original condition. County, in County's sole discretion, shall determine whether any disturbances have been reasonably restored to their original or better than original condition. In the event that County determines Cole Canyon has failed to restore any disturbance to the original or better than original condition, County shall notify Cole Canyon and Cole Canyon shall be responsible for the restoration or the costs of County's endeavors to restore the disturbance to the original or better than original condition.

Cole Canyon shall notify County in advance and as soon reasonably possible of any construction work or disturbances of any kind that could interrupt the regular or daily use of the Park by any users or County personnel. County shall work with Cole Canyon to temporarily divert traffic, personnel, or users of the Park away from Cole Canyon's construction activities as necessary.

2. EFFECTIVE DATE/TERM

This Agreement shall be effective as of the 01 day of August, 2023 and will continue for a period of 1 year following the effective date ("Term"). County reserves the right to review this Agreement on a regular basis regarding performance and cost analysis and may negotiate price and service elements during the term of this Agreement.

3. TERMINATION

- a. Termination for Default. County may terminate this Agreement for an "Event of Default as defined, upon written notice from County to Cole Canyon.
- b. Termination by Cole Canyon for Default. Cole Canyon may terminate this Agreement for an Event of Default upon written notice from Cole Canyon to County.
- c. Event of Default. As used in this Agreement, the term "Event of Default" means a party hereto fails to perform any of its material obligations and such failure continues for a period of 30 (thirty) days after written notice to such defaulting party or any material representation or warranty of a party contained in this Agreement proves to be untrue or incorrect in any material respect when made.
- d. Force Majeure. Neither party shall be liable for any excess costs if the failure to perform arises from causes beyond the control and without the fault or negligence of that party, e.g., acts of God, fires, floods, strikes, or unusually severe weather. If such condition continues for a period in excess of 60 days, Cole Canyon or County shall have the right to terminate this Agreement without liability or penalty effective upon written notice to the other party.
- e. No Limitation of Rights. The rights and remedies of the parties hereto are in addition to any other rights and remedies provided by law or under this Agreement. The parties agree that the waiver of any breach of this Agreement by either party shall in no event constitute a waiver as to any future breach.
- f. Termination for Convenience. County reserves the right to terminate this Agreement, in whole or in part, at any time during the Term or any Additional Terms whenever County determines, in its sole discretion that it is in the County's interest to do so. If County elects to exercise this right, County shall provide written notice to Cole Canyon at least 30 (thirty) days prior to the date of termination for convenience. Upon such termination, Cole Canyon shall be paid for all services up to the date of termination. Cole Canyon agrees that the County's termination for convenience will not be deemed a termination for default nor will it entitle Cole Canyon to any rights or remedies provided by law

or this Agreement for breach of contract by the County or any other claim or cause of action.

4. INDEPENDENT CONTRACTOR AND TAXES

The relationship of County and Cole Canyon under this Agreement shall be that of an independent contractor status. Each party shall have the entire responsibility to discharge all of the obligations of an independent contractor under federal, state and local law, including but not limited to, those obligations relating to employee supervision, benefits and wages; taxes; unemployment compensation and insurance; social security; worker's compensation; disability pensions and tax withholdings, including the filing of all returns and reports and the payment of all taxes, assessments and contributions and other sums required of an independent contractor. Nothing contained in this Agreement shall be construed to create the relationship between County and Cole Canyon of employer and employee, partners or joint venturers.

5. INSURANCE

Cole Canyon shall, at its sole cost and expense, secure and maintain during the term of this Agreement, including all renewal or additional terms, the following minimum insurance coverage:

- A. Workers' compensation and employer's liability insurance as required by the State of Utah.
- B. Commercial general liability insurance in the minimum amount of \$1,000,000 per occurrence with a \$2,000,000 general policy aggregate.
- C. Professional liability insurance in the minimum of amount of \$1,000,000 per occurrence with a \$2,000,000 annual policy aggregate limit.
- D. Commercial automobile liability insurance that provides coverage in the minimum amount of \$100,000 per occurrence per person/ \$300,000 per accident / \$50,000 property damage OR single combined limit of \$500,000.

6. AGENT

No agent, employee or servant of Cole Canyon or County is or shall be deemed to be an employee, agent or servant of the other party. None of the benefits provided by each party to its employees, including but not limited to workers' compensation insurance, health insurance and unemployment insurance, are available to the employees, agents, or servants of the other party. Cole Canyon and County shall each be solely and entirely responsible for its acts and for the acts of its agents, employees, and servants during the performance of this Agreement. Cole Canyon and County shall each make all commercially reasonable efforts to inform all persons with whom they are involved in connection with this Agreement that both are independent contractors.

7. SEVERABILITY

In the event that any condition, covenant or other provision hereof is held to be invalid or void, the same shall be deemed severable from the remainder of this Agreement and shall in no way affect any other covenant or condition herein contained. If such condition, covenant, or other provision shall be deemed invalid due to its scope or breadth, such provision shall be deemed valid to the extent of the scope or breadth permitted by law.

8. COMPLIANCE WITH LAWS

Each party agrees to comply with all federal, state and local laws, rules and regulations in the performance of its duties and obligations under this Agreement. Any violation by Cole Canyon of applicable law, rule or regulation, shall constitute an event of default under this Agreement. Cole Canyon is responsible, at its sole expense, to acquire, maintain and renew during the term of this Agreement, all necessary permits and licenses required for its lawful performance of its duties and obligations under this Agreement.

9. NON-ASSIGNMENT

Neither party shall assign, transfer, or contract for the furnishing of services to be performed under this Agreement without the prior written approval of the other.

10. GOVERNING LAW

It is understood and agreed by the Parties hereto that this Agreement shall be governed by the laws of the State of Utah and the ordinances of Weber County, both as to interpretation and performance. All actions, including but not limited to court proceedings, administrative proceedings, arbitration and mediation proceedings, shall be commenced, maintained, adjudicated and resolved within the jurisdiction of the State of Utah.

11. STANDARD OF PERFORMANCE/PROFESSIONALISM

Cole Canyon acknowledges the standard of performance and professionalism required in the performance of its services under this Agreement. Cole Canyon agrees to perform the services under this Agreement with the level of professionalism expected in its industry/profession in the community. Further, Cole Canyon, while performing its obligations under this Agreement, will conduct itself in such a manner that will promote the best interests of the County.

12. INDEMNIFICATION

Cole Canyon agrees to indemnify and hold harmless the County, its officers, agents, and employees from and against any and all actual or threatened claims, losses, damages, injuries,

and liabilities of, to, or by third Parties, including Cole Canyon, its subcontractors, or the employees of either, including claims for personal injury, death, or damage to personal property or profits and liens of workmen and material men (suppliers), however allegedly caused, resulting directly or indirectly from, or arising out of, Cole Canyon's breach of this Agreement or any acts or omissions of or by Cole Canyon, its agents, representatives, officers, employees, or subcontractors in connection with the performance of this Agreement. Cole Canyon agrees that its duty to indemnify the County under this Agreement includes all attorney's fees, litigation and court costs, expert witness fees, and any sums expended by or assessed against the County for the defense of any claim or to satisfy any settlement, arbitration award, or verdict paid or incurred on behalf of the County.

13. GOVERNMENTAL IMMUNITY

County is a body corporate and politic of the State of Utah, subject to the Governmental Immunity Act of Utah (the "Act"), Utah Code Ann. §§ 63G-7-101 to -904. The Parties agree that County shall only be liable within the parameters of the Governmental Immunity Act. Nothing contained in this Agreement shall be construed in any way, to modify the limits of liability set forth in that Act or the basis for liability as established in the Act.

14. COUNTERPARTS

This Agreement may be executed in several counterparts and all so executed shall constitute one agreement binding on all the Parties, notwithstanding that each of the Parties are not signatory to the original or the same counterpart. Further, executed copies of this Agreement delivered by facsimile shall be deemed an original signed copy of this Agreement.

15. ENTIRE AGREEMENT

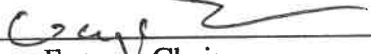
County and Cole Canyon acknowledge and agree that this Agreement constitutes the entire integrated understanding between County and Cole Canyon, and that there are no other terms, conditions, representations or understanding, whether written or oral, concerning the rights and obligations of the Parties to this Agreement except as set forth in this Agreement. This Agreement may not be enlarged, modified or altered, except in writing, signed by the Parties.

16. INTERPRETATION

County and Cole Canyon agree that where possible, each provision of this Agreement shall be interpreted in such a manner as to be consistent and valid under applicable law; but if any provision of this Agreement shall be invalid, prohibited or unenforceable under applicable law, such provision shall be ineffective to the extent of such invalidity or prohibition, without invalidating the remainder of such provision or the remaining provisions of this Agreement.

In witness whereof, the Parties execute this Agreement.

BOARD OF COUNTY COMMISSIONERS
OF WEBER COUNTY

By 
Gage Froerer, Chair

Commissioner Froerer voted Yes

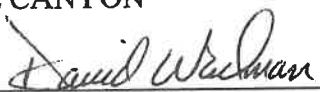
Commissioner Harvey voted Yes

Commissioner Bolos voted Yes

ATTEST

Fol 
Ricky Hatch, CPA
Weber County Clerk/Auditor

COLE CANYON

By: 

Title: Board Members

Date: 8-23-2023

EXHIBIT A

COLE CANYON WATER COMPANY SYSTEM FILTRATION AND CHLORINATION PROJECT

NEAR 2300 NORTH FORK PARK RD
LIBERTY, UT 84310

PWS ID: UTAH29092

Sheet List Table	
Sheet Number	Sheet Title
G-001	COVER SHEET
G-002	VICINITY MAP AND PROJECT LOCATION MAP
G-003	GENERAL NOTES AND ABBREVIATIONS
G-004	LINE AND SYMBOL LEGENDS AND SHEET AND DETAIL KEY
C-101	SITE PLAN
C-102	CIVIL DETAILS
M-101	PIPING PLAN AND SECTION
M-102	MECHANICAL DETAILS
S-001	GENERAL STRUCTURAL NOTES
S-002	GENERAL STRUCTURAL DETAILS

Sheet List Table	
Sheet Number	Sheet Title
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S-201	STRUCTURAL ELEVATIONS
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E-701	ONE-LINE DIAGRAMS



BID SET

PROJECT NO. 55-22-095

JULY 2023



J-U-B ENGINEERS, INC.

NOTICE AND DISCLAIMER

The plans and/or specifications (documents) are the property of J-U-B Engineers, Inc. ("J-U-B") and by using the documents you agree to be bound by the terms and conditions in this notice and disclaimer.

The documents are provided in electronic format. The electronic documents are subject to the provisions of J-U-B's Electronic Document Distribution License located at <http://www.jub.com>.

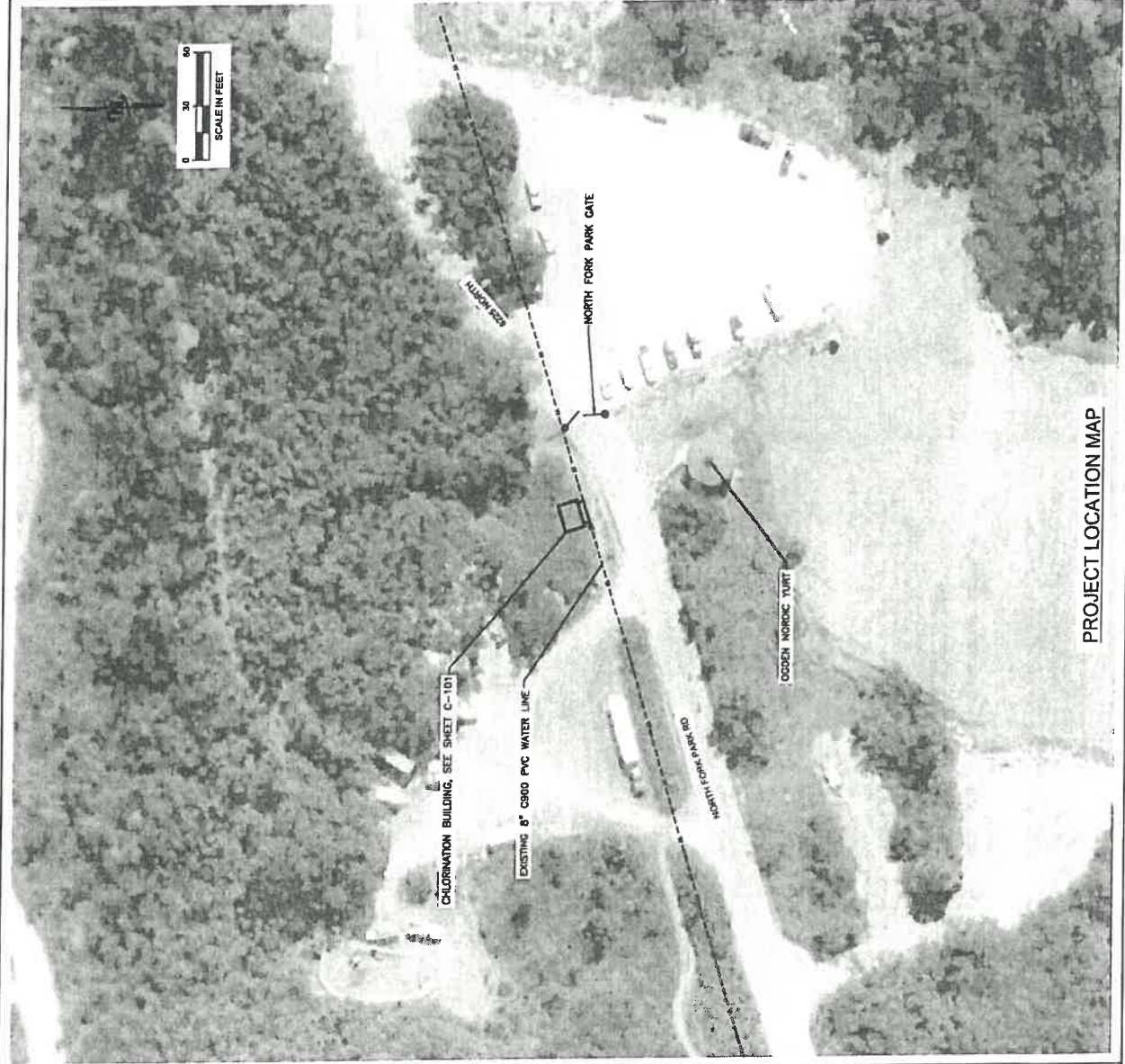
The user shall not (i) disseminate the documents, or any part thereof, to others without the written consent of J-U-B, or (ii) use the documents, or any part thereof, for any use other than as intended for the intended project. The documents are not intended for use in connection with any other project (unless specifically identified as such in the documents), or property boundary layout.

J-U-B and its agents shall not be liable for any damages or claims arising out of the unauthorized use or misuse of the documents, or any part thereof, whether such damage or claim is caused in whole or in part by the use of the documents, or any part thereof, or in any way to, the user's unauthorized use or misuse of the documents, or any part thereof.

The documents are provided in electronic format. The electronic documents are subject to the provisions of J-U-B's Electronic Document Distribution License located at <http://www.jub.com>.

NO.	DESCRIPTION	DATE
1	ISSUED FOR BIDDING	08/15/2011
2	REVISION	
3	REVISION	
4	REVISION	
5	REVISION	
6	REVISION	
7	REVISION	
8	REVISION	
9	REVISION	
10	REVISION	

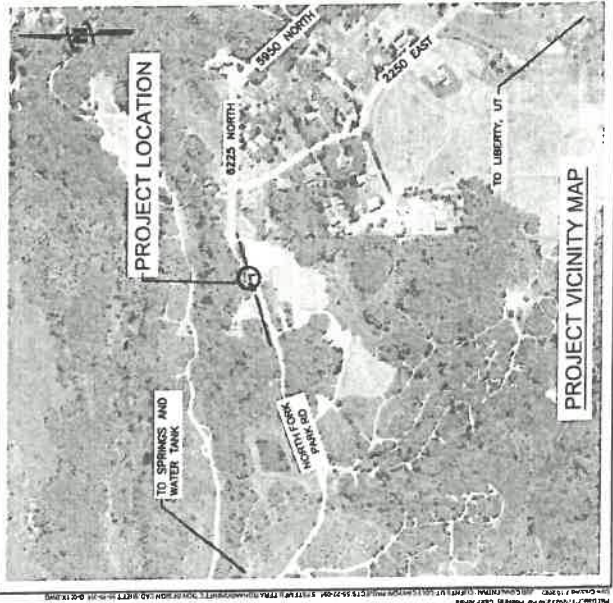
DATE	08/15/2011
BY	JUB
CHECKED BY	JUB
APPROVED BY	JUB
DATE	08/15/2011
BY	JUB
CHECKED BY	JUB
APPROVED BY	JUB
DATE	08/15/2011
BY	JUB
CHECKED BY	JUB
APPROVED BY	JUB



PROJECT LOCATION MAP



STATE OF UTAH



PROJECT VICINITY MAP

1. GENERAL:

- RESULTS ARE TO BE DELIVERED TO SPECIAL INSPECTOR, OWNER AND ENGINEER. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ENGINEER AND SPECIAL INSPECTOR FOR INSPECTIONS OF WORK AT APPROPRIATE INTERVALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PAY FOR ADDITIONAL INSPECTIONS THAT ARE THE RESULT OF HIS WORKMANSHIP.
6. **PERMITTING AND COORDINATION:**
- A. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND BUSINESS LICENSES PRIOR TO CONSTRUCTION.
- B. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL LOCAL, STATE, AND FEDERAL PERMITS REQUIRED FOR STORM WATER POLLUTION PREVENTION AS A RESULT OF CONSTRUCTION ACTIVITIES. WHEN CALLED FOR IN THE CONTRACT DOCUMENTS, CONTRACTOR SHALL SUBMIT A WRITTEN POLLUTION PREVENTION PLAN FOR APPROVAL BY THE ENGINEER AND TO BE FORWARDED TO LOCAL AGENCIES. THE CONTRACTOR SHALL FILE A "NOTICE OF CONSTRUCTION" WITH THE STATE OF TEXAS. THE CONTRACTOR SHALL FILE A "NOTICE OF INTENT" FOR PERMIT COVERAGE UNDER THE STATE'S UPDES STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES (UTR3000000) AND PAY ALL ASSOCIATED FEES. THE NOI MAY BE FILED ELECTRONICALLY AT THE FOLLOWING WEBSITE:
- <https://www.waterquality.txd.gov/updes/website.htm> AND FOLLOWING THE DIRECTIONS GIVEN UNDER THE HEADING "ONLINE APPLICATION PROCESS AND SEARCH FOR EXISTING PERMITS". THE OSP DOES NOT REQUIRE CONSTRUCTOR FROM COMPLIANCE WITH OTHER REGULATIONS OR CONTRACT REQUIREMENTS REGARDING STORM WATER POLLUTION PREVENTION BUT NOT LIMITED TO: PROTECTION OF SURFACE WATERS, PREVENTION OF SOIL EROSION, DRAINAGE, DITCH CONTROL, PREVENTION OF TRUCKING SOILS TO ADJACENT STREET OR ANY WORK DONE WITHIN A PUBLIC RIGHT-OF-WAY SHALL BE COORDINATED WITH THE APPROPRIATE TRANSPORTATION AGENCY AND SHALL MEET THE REQUIREMENTS OF THAT AGENCY. IN PARTICULAR, REQUIREMENTS OF ANY RIGHT-OF-WAY SPECIAL USE PERMIT, OR OTHER PERMIT, ALL WORK SHALL MEET CURRENT OSHA REQUIREMENTS.
- D. 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.
8. **MISCELLANEOUS:**
- A. CONTRACTOR IS RESPONSIBLE FOR DUST ABATEMENT AND ANY LIABILITY ISSUES RELATED TO DUST AT ANY LOCATION WHICH MAY BE CAUSED BY THIS PROJECT.
- B. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL AND PROTECTION OF PEDESTRIANS AND AROUND THIS WORK. REFERENCE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION FOR WORK ZONE TRAFFIC CONTROL).
- C. THE CONTRACTOR SHALL PRESERVE EXISTING CITY, COUNTY, STATE, AND FEDERAL LAND MONUMENTS WHENEVER POSSIBLE. IF A MONUMENT MUST BE MOVED, THE ENGINEER SHALL BE NOTIFIED PRIOR TO REMOVAL TO ARRANGE FOR RELOCATION.
- D. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE ADJACENT PROPERTY. THE CONTRACTOR WILL COMPLETELY CLEAN UP ALL AREAS AND MAINTAIN THE SURFACE IN GOOD CONDITION DURING THE SHUT-DOWN PERIOD.

- A. CONTRACTOR IS RESPONSIBLE FOR DUST ABATEMENT AND ANY LIABILITY ISSUES RELATED TO DUST AT ANY LOCATION WHICH MAY BE CAUSED BY THIS PROJECT.
- B. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL AND PROTECTION OF PEDESTRIANS IN AND AROUND THIS WORK. REFERENCE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (NUTCD LATEST EDITION FOR WORK ZONE TRAFFIC CONTROL).
- C. THE CONTRACTOR SHALL PRESERVE EXISTING CITY, COUNTY, STATE, AND FEDERAL LAND MONUMENTS WHENEVER POSSIBLE. IF A MONUMENT MUST BE MOVED, THE ENGINEER SHALL BE CONTACTED 2 WEEKS PRIOR TO REMOVAL TO ARRANGE FOR RELOCATION.
- D. THE CONTRACTOR SHALL MAINTAIN THE EXISTING DRAINAGE PATTERNS. THE CONTRACTOR WILL COMPLETELY CLEAN UP ALL AREAS AND MAINTAIN THE SURFACE IN GOOD CONDITION DURING THE SHUT-DOWN PERIOD.

BRANDON NIELSEN, P.E.
J-U-B ENGINEERS, INC.
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KEVIN EVANS
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DAN.INMAN@AM/AD.COM
(303) 506-1418

- a. THE LOCATION OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY.
- b. DEPTHS AND ELEVATIONS OF UTILITIES ARE UNKNOWN UNLESS OTHERWISE SHOWN.
- c. UNDERGROUND UTILITY LOCATION AND VERIFICATION IS TO BE AN ONGOING PROCESS.
- d. CONTRACTOR IS RESPONSIBLE TO:
 - i. VERIFY EXACT LOCATIONS OF ALL UTILITIES PRIOR TO BEGINNING WORK IN THAT AREA
 - ii. FIELD UTILITY LOCATION, DEPTHS, AND ELEVATIONS WHERE CONFLICTING UTILITIES MAY BE PRESENT
 - iii. BRING ANY DISCREPANCIES AND/OR CONFLICTS TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
 - iv. NOTIFY APPROPRIATE UTILITY COMPANIES WHEN CONSTRUCTION MIGHT INTERFERE WITH NORMAL OPERATION OF ANY UTILITIES.
 - v. MAINTAIN SERVICE OF EXISTING UTILITIES.
 - vi. REPAIR ANY UTILITIES DAMAGED DUE TO CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MATERIALS TESTING INCLUDING BUT NOT LIMITED TO CONCRETE, ASPHALT, AND COMPACTION. ALL TESTS SHALL MEET MINIMUM ENGINEER REQUIREMENTS. SEE THE CONTRACT DOCUMENTS AND DRAWINGS FOR FREQUENCY OF TESTING.

ABBREV.	TERM
ALUM	ALUMINUM
ASSEM	ASSEMBLY
ANG	ANGLE
AT	AT (MEASUREMENTS)
BEG	BEGINNING OF CURVE
BUILD	BUILDING
BENCH	BENCH MARK
ALIGN	ALIGNMENT BEGINNING
BREAK	GRADE BREAK
BISC	BRITISH/US SURFACE COURSE
BACK	BACK OF SIDEWALK
BEGIN	BEGIN VERTICAL CURVE
BVPC	PROFILE START
B.W.	BOTH WAYS
CH	CHANNEL (STRUCTURAL)
CL	CONTROL POINT
CL &	CENTER LINE
CLR	CLEARANCE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CONT	CONTINUOUS
COUPL	COUPLING
CTR	CENTER
CU FT	CUBIC FEET
CU YD	CUBIC YARD
DEG OR °	DEGREE
DIAM OR Ø	DIAMETER
DI	DUCTILE IRON
DIST	DISTRIBUTION
DWG	DRAWING
EACH	EACH
END	END OF CURVE
ELB	ELBOW
ELV OR EL	ELEVATION
EDGE	EDGE OF ASPHALT
END	ALIGNMENT END
EVPC	PROFILE END
E.W.	EACH WAY
EXIST	EXISTING
EVPC	END VERTICAL CURVE
FF	FINISH FLOOR
PG	FINISH GRADE
FR	FIRE HYDRANT
FL	FLOW LINE
FLG	FLANGE
FT OR '	FEET
FTG	FOOTING
GALV	GALVANIZED
GB	GRADE BREAK
HORIZ	HORIZONTAL

ABBREV.	TERM
P	HIGH POINT
D	INSIDE DIAMETER
E	INVERT ELEVATION
N, OR °	INCH
N, OR °	INVERT
	CURVE COEFFICIENT
	LEFT
B	LINE BEGINNING
B OR #	ROUND
C	LEVEL CROWN
E	LINE END
F	LINEAL FEET
J	LINEAL
N	LOW POINT
P	MANUAL
MAN	MAXIMUM
MIN	MINIMUM
OR #	NUMBER
°C	POINT OF CURVATURE
°C	POINT OF COMPOUND CURVATURE
°C	POLYETHYLENE
T	TANGENT-TANGENT
P, PL OR P	INTERSECT
PRC	PLATE OR PROPERTY LINE
T	REVERSE CURVATURE
T	POINT OF TANGENCY
PMC	POLYVINYL-CHLORIDE
PM	POINT OF VERTICAL INTERSECTION
R	RADIUS OR RIGHT
RC	REVERSE CROWN
RECTO	REQUIRED
REV	REVISION
R/W	RIGHT-OF-WAY
S	SLOPE
SPEC	SPECIFICATION
STATION	STATION
STD	STANDARD
STL	STEEL
ST STL	STAINLESS STEEL
TOP BACK OF CURB	TOP BACK OF CURB
TOP FACE OF CONCRETE	TOP FACE OF CONCRETE
TOP OF BEAM	TOP OF BEAM
TOP OF CONCRETE	TOP OF CONCRETE
TOP OF FOOTING	TOP OF FOOTING
TOP OF PIPE	TOP OF PIPE
TOP OF WALL	TOP OF WALL
TYPICAL	TYPICAL
W/	WITH
W/O	WITHOUT
W/DEPTH	WHERE REQUIRED

LESSON 1

North 900 West
Salt Lake City, Utah 84037
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LESSON 1

983

GENERAL NOTES AND ABBREVIATIONS

G-003



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

SHEET NUMBERING

EXAMPLE:
SHEET NUMBER: C1-101

DISCIPLINE DESIGNATOR	COMPONENT CODE (OPTIONAL)	SHEET TYPE DESIGNATOR	SHEET SEQUENCE NUMBER
C1	-	1	01

DISCIPLINE DESIGNATORS		
DISCIPLINE	DESIGNATOR	DESCRIPTION
GENERAL	G	ALL GENERAL
	GI	GENERAL INFORMATION
	GC	GENERAL CONTRACTUAL
	GR	GENERAL RESOURCE
SURVEY/MAPPING	V	ALL SURVEY
	B	ALL GEOTECHNICAL
GEOTECHNICAL	C	ALL CIVIL
CIVIL	L	ALL LANDSCAPE
	S	ALL STRUCTURAL
LANDSCAPE	A	ALL ARCHITECTURE
STRUCTURAL	Q	ALL EQUIPMENT
ARCHITECTURAL	M	ALL MECHANICAL
EQUIPMENT	E	ALL ELECTRICAL
MECHANICAL	P	ALL PLUMBING
ELECTRICAL	D	ALL PROCESS
PLUMBING	R	ALL RESOURCE
PROCESS		
RESOURCE		

DESIGNATOR	SHEET TYPE
0	GENERAL (SYMBOLS, LEGENDS, NOTES, ETC.)
1	PLANS (HORIZONTAL VIEWS)
2	ELEVATIONS, PROFILES, COMBINED PLAN & PROFILES
3	SECTIONS (SECTIONAL VIEWS)
4	LARGE-SCALE VIEWS (PLANS, ELEVATIONS, ETC.)
5	DETAILS OR COMBINED DETAILS AND SECTIONS
6	USER DEFINED
7	USER DEFINED
8	USER DEFINED
9	3D REPRESENTATIONS (ISOMETRICS, PERSPECTIVES, PHOTOS)

SECTION AND DETAIL IDENTIFIERS

SECTION IDENTIFICATION SECTION IDENTIFIER SHEET NUMBER WHERE DETAIL DRAWING IS LOCATED (A-301)	DETAIL IDENTIFICATION DETAIL IDENTIFIER SHEET NUMBER WHERE DETAIL DRAWING IS LOCATED (1)
SECTION IDENTIFICATION SECTION IDENTIFIER SHEET NUMBER WHERE DETAIL DRAWING IS LOCATED (A)	DETAIL IDENTIFICATION DETAIL IDENTIFIER SHEET NUMBER WHERE DETAIL DRAWING IS LOCATED (1)

NOTE:
A DASH MAY BE PLACED IN THE LOWER PORTION OF THE IDENTIFIER IF
THE DETAIL DRAWING OR SECTION VIEW IS LOCATED ON THE SAME SHEET.

SYMBOL LEGEND

DESCRIPTION	EXIST.	PROP.	DESCRIPTION	EXIST.	PROP.
SANITARY SEWER			IRRIGATION		
CLEANOUT	⊙	●	IRRIGATION VALVE	⊙	⊙
SS MANHOLE	⊙	⊙	IRRIGATION VALVE BOX	⊙	⊙
SS VALVE	⊙	⊙	SPRINKLER	⊙	⊙
SS METER	⊙	⊙	IRRIGATION GATE	⊙	⊙
SEWER STUB	⊙	⊙	NATURAL GAS		
STORM DRAIN			GAS METER	⊙	⊙
CATCH BASIN	⊙	⊙	GAS VALVE	⊙	⊙
DRY WELL	⊙	⊙	GAS MANHOLE	⊙	⊙
SD MANHOLE	⊙	⊙	UTILITIES		
FLARE END	⊙	⊙	MANHOLE (GENERIC)	⊙	⊙
GREASE TRAP	⊙	⊙	PRESSURE CLEAN OUT AT GRADE	⊙	⊙
COMMUNICATION			THRUST BLOCK	⊙	⊙
TELE. MANHOLE	⊙	⊙	VAULT	⊙	⊙
TELE. PEDESTAL	⊙	⊙	VALVE (GENERIC)	⊙	⊙
TELE. POLE	⊙	⊙	UTILITY POLE	⊙	⊙
TV PEDESTAL	⊙	⊙	SITE		
GUY WIRE	⊙	⊙	BOLLARD	⊙	⊙
DOMESTIC WATER			BOULDER	⊙	⊙
FIRE HYDRANT	⊙	⊙	DRINKING FOUNTAIN	⊙	⊙
SPIGOT	⊙	⊙	FLAGPOLE	⊙	⊙
WATER MANHOLE	⊙	⊙	GATE	⊙	⊙
WATER METER	⊙	⊙	MAIL BOX	⊙	⊙
WATER VALVE	⊙	⊙	PARKING METER	⊙	⊙
YARD HYDRANT	⊙	⊙	POST	⊙	⊙
ELECTRIC			SIGN	⊙	⊙
ELEC. MANHOLE	⊙	⊙	SPOT ELEVATION	⊙	⊙
ELEC. METER	⊙	⊙	TREE (SHRUB)	⊙	⊙
ELEC. TRANS.	⊙	⊙	TREE	⊙	⊙
JUNCTION BOX	⊙	⊙	TEST HOLE	⊙	⊙
GUY WIRE	⊙	⊙	WELL	⊙	⊙
POWER STUB	⊙	⊙	WELL (MONITORING)	⊙	⊙
POWER POLE	⊙	⊙	SURVEY		
STREET LIGHT	⊙	⊙	CAP	⊙	⊙
STREET LIGHT WITH ARM	⊙	⊙	CTRL PT	⊙	⊙
TRAFFIC SIGNAL POLE	⊙	⊙	NAIL	⊙	⊙
			BOLT	⊙	⊙
			REBAR	⊙	⊙

LINE LEGEND

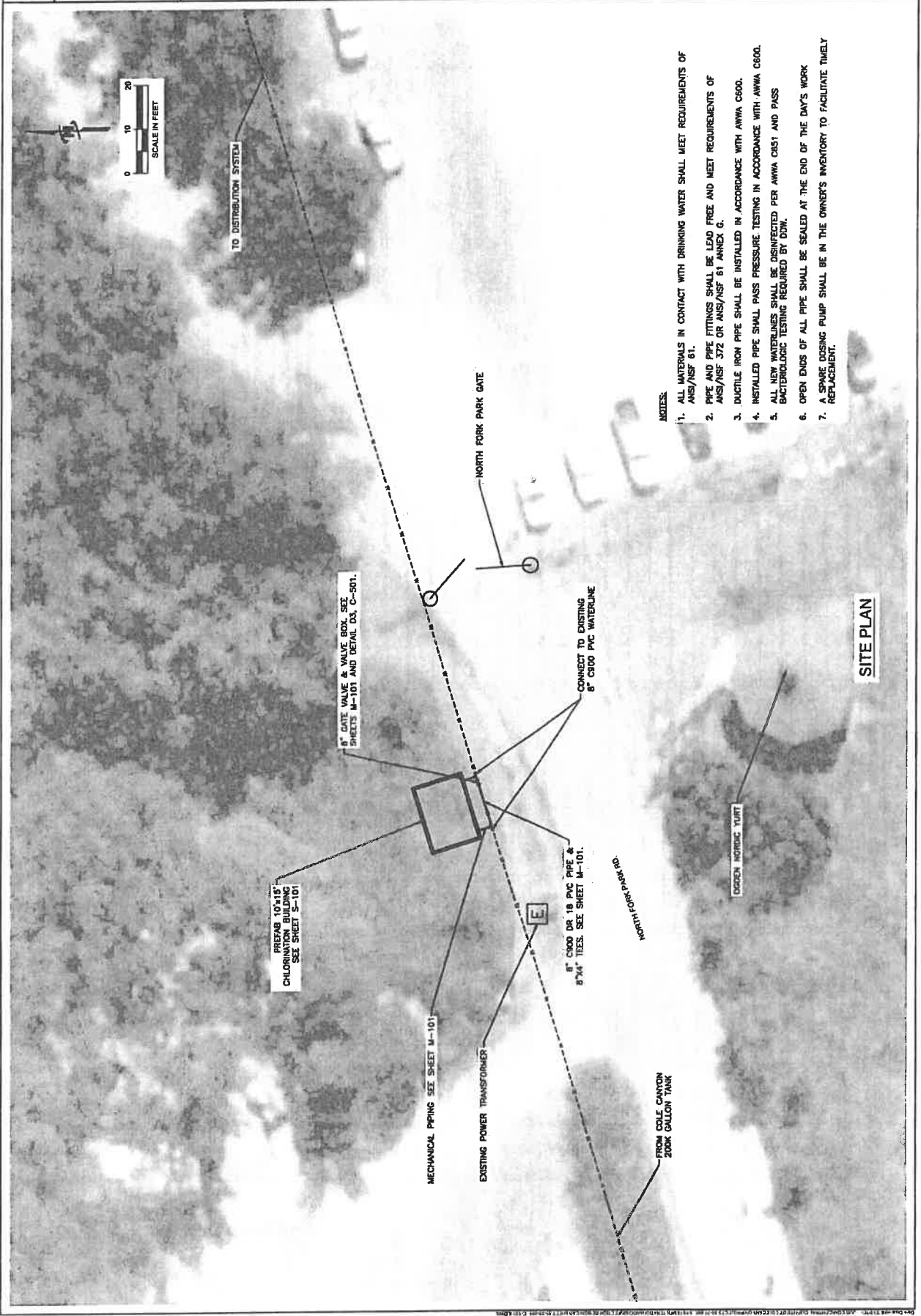
DESCRIPTION	EXIST.	PROP.
STORM DRAIN	— SD —	— SD —
DRAIN LINE	— DL —	— DL —
SANITARY SEWER	— SS —	— SS —
WATER	— W —	— W —
IRRIGATION	— IR —	— IR —
NATURAL GAS	— G —	— G —
OVERHEAD POWER	— OHP —	— OHP —
UNDERGROUND POWER	— UP —	— UP —
OVERHEAD TELEPHONE	— OHT —	— OHT —
UNDERGROUND TELEPHONE	— UT —	— UT —
FIBER OPTIC	— F/O —	— F/O —
CABLE TELEVISION	— CTV —	— CTV —
FENCE	— X —	— X —
DITCH	—	—
MAJOR CONTOUR	— 2520 —	— 2520 —
MINOR CONTOUR	—	—
TOP OF BANK	— TOS —	— TOS —
TOE OF SLOPE	— TOE —	— TOE —
PROPERTY LINE	— P/L —	— P/L —
PROPERTY LINE (OPTIONAL)	—	—
RIGHT OF WAY	— R/W —	— R/W —
TEMPORARY EASEMENT	— T/E —	— T/E —
PERMANENT EASEMENT	— P/E —	— P/E —
ROAD SHOULDER	—	—
ROAD CENTERLINE	—	—
ROAD ASPHALT	—	—
ROAD GRAVEL	— EG —	— EG —
ROAD DIRT	—	—
CURB AND GUTTER	—	—

BID SET

NO.	REVISION	DATE
1	ISSUED FOR BIDDING	10/1/03
2	REVISED PER COMMENTS	10/1/03
3	REVISED PER COMMENTS	10/1/03
4	REVISED PER COMMENTS	10/1/03
5	REVISED PER COMMENTS	10/1/03
6	REVISED PER COMMENTS	10/1/03
7	REVISED PER COMMENTS	10/1/03
8	REVISED PER COMMENTS	10/1/03
9	REVISED PER COMMENTS	10/1/03
10	REVISED PER COMMENTS	10/1/03

SYSTEM FILTRATION AND CHLORINATION PROJECT
COLE CANYON WATER COMPANY

C-101
 SHEET NUMBER



- NOTES:**
1. ALL MATERIALS IN CONTACT WITH DRINKING WATER SHALL MEET REQUIREMENTS OF ANSI/NSF 61.
 2. PIPE AND PIPE FITTINGS SHALL BE LEAD FREE AND MEET REQUIREMENTS OF ANSI/NSF 372 OR ANSI/NSF 61 ANNEX G.
 3. DUCTILE IRON PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ANWA C600.
 4. INSTALLED PIPE SHALL PASS PRESSURE TESTING IN ACCORDANCE WITH ANWA C600.
 5. ALL NEW WATERLINES SHALL BE DISINFECTED PER ANWA C651 AND PASS BACTERIOLOGIC TESTING REQUIRED BY DOW.
 6. OPEN ENDS OF ALL PIPE SHALL BE SEALED AT THE END OF THE DAY'S WORK
 7. A SPARE DOSING PUMP SHALL BE IN THE OWNER'S INVENTORY TO FACILITATE TIMELY REPLACEMENT.

SITE PLAN

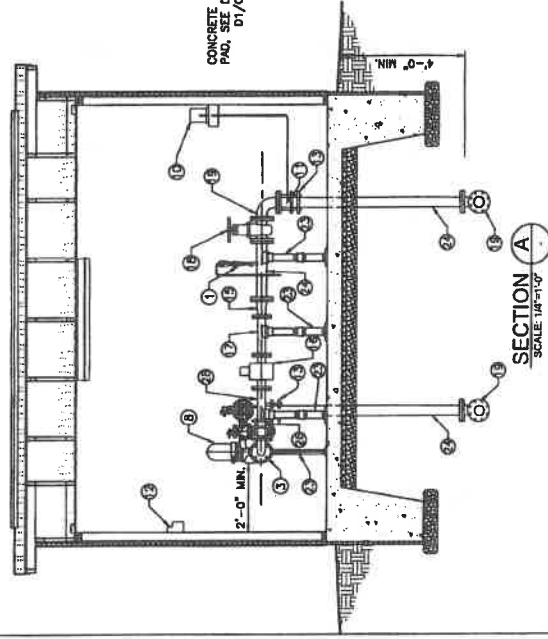
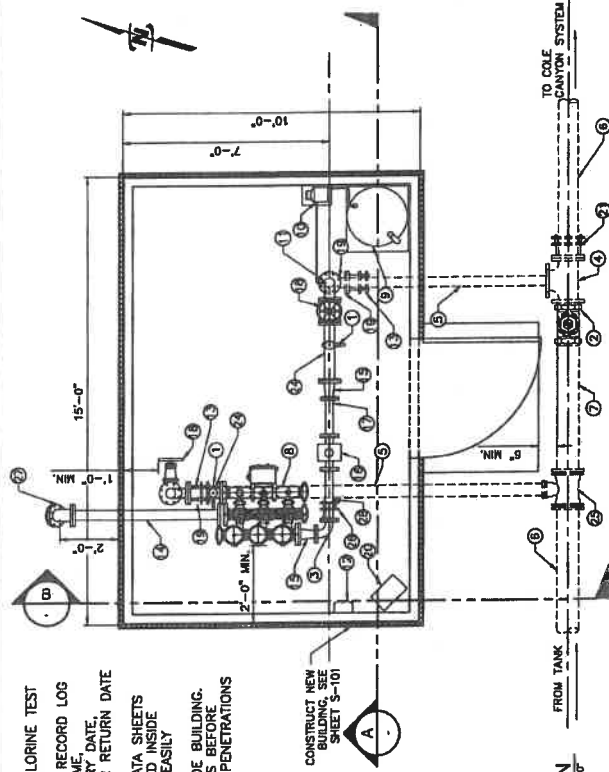
MATERIAL NOTES

- ① SAMPLING TAP, PRESSURE GAUGE, AIR VENT & ISOLATION VALVE. SEE DETAIL B1, SHEET M-501
- ② 8" GATE VALVE (FL&MJ)
- ③ 3" 90° D.I. BEND (FL)
- ④ 8"x8"x4" D.I. TEE (FL&LMJ)
- ⑤ 4" CS900 DR 18 PVC PIPE
- ⑥ EXISTING 8" PVC WATERLINE
- ⑦ 8" CS900 DR 18 PVC PIPE
- ⑧ AMIAD 4" DPAL 2"x(3)x4" 40 MICRON FILTER SYSTEM WITH POD ISOLATION B-FLY VALVES, AND CONTROL PANEL, SEE E-102 FOR PANEL LOCATION
- ⑨ 55 GAL POLYETHYLENE SODIUM HYPOCHLORITE DRUM - 12.5% FREE TO CHLORINE, NSF 60 CERTIFIED, PROVIDE WITH EPDM RUBBER GASKET TO SEAL FEED HOSE, RECEIVING BASIN, AND INVERTED U AIR VENT WITH #14 SCREEN. OWNER TO PROVIDE MEANS TO MEASURE AND RECORD LEVEL.
- ⑩ BLUE-WHITE FLEXFLO PERISTALTIC FLOW-PACED METERING PUMP, MODEL M14-6T, FLOW RANGE 0.0001-1.35 GALLONS PER HOUR, SUPPLY WITH WALL MOUNT BRACKET (PART NO. KIT-PSM), SUCTION TUBING (PART NO. C-334-6), DISCHARGE TUBING (PART NO. C-335-6), AND NECESSARY ACCESSORIES. CONNECT SIGNAL FROM FLOW METER TO DOSING PUMP.
- ⑪ BLUE-WHITE PVOF INJECTION QUILL (PART NO. A-01NK-6A)
- ⑫ EYE WASH WALL STATION- HONEYWELL EYE SALINE 32000462000.
- ⑬ 4" FLANGE COUPLING ADAPTER
- ⑭ 4" AWWA C151 PC 350 D.I. PIPE (FL)
- ⑮ 4"x3" D.I. CONCENTRIC REDUCER (FL)
- ⑯ 3" SIEMENS SITRANS MAG 5100 W FLOW METER WITH EBONITE LINING AND MAG 5000 TRANSMITTER (115 VAC). MOUNT TRANSMITTER ON WALL. CONNECT 4-20 mA OUTPUT TO DOSING PUMP. MINIMUM OF 15" STRAIGHT PIPE UPSTREAM AND MINIMUM OF 9" STRAIGHT PIPE DOWNSTREAM OF FLOW METER. SEE E-102 FOR TRANSMITTER LOCATION.
- ⑰ 3" AWWA C151 PC 350 D.I. PIPE (FL)
- ⑱ 4" GATE VALVE (FL&MJ)
- ⑲ 4" 90° D.I. BEND (FL)
- ⑳ ELECTRIC HEATER, SEE ELECTRICAL SHEETS
- ㉑ 8" FLANGE COUPLING ADAPTER
- ㉒ 4" FLANGE WITH #4 SCREEN AND 3/4" EXPANDED STAINLESS STEEL SCREEN BETWEEN FLANGES. PLACE #4 SCREEN UPSTREAM OF 3/4" SCREEN. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.
- ㉓ PIPE SUPPORT. SEE DETAIL B3, SHEET M-501. SUPPORTS UNDER FILTER SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
- ㉔ 4" AWWA C151 PC 350 D.I. PIPE (FL&PE)
- ㉕ 8"x8"x4" DI TEE (M&M&MJ)
- ㉖ 3" FLANGE COUPLING ADAPTER
- ㉗ 4" 45° D.I. BEND (FL)
- ㉘ 3" AWWA C151 PC 350 D.I. PIPE (FL&PE)

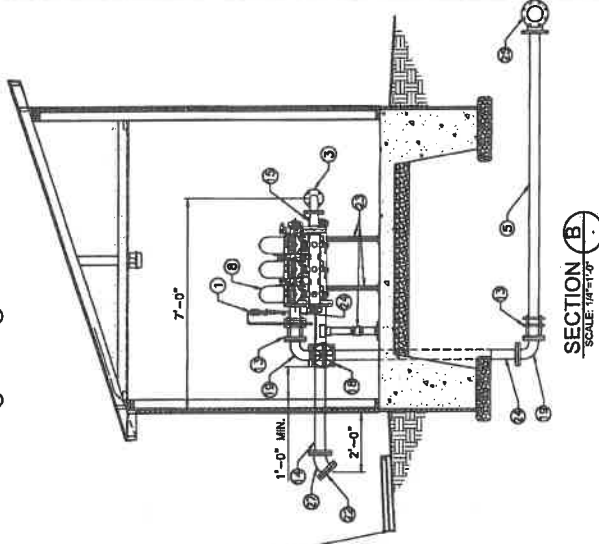
- NOTES:**
1. PROVIDE HACH MODEL CN-80 CHLORINE TEST KITNER TO MAINTAIN A CHEMICAL RECORD LOG
 2. SITE INCLUDING CHLORINE NAME, DELIVERY DATE, CONCENTRATION, VOLUME, DELIVERY DATE, EXPIRATION DATE, AND CONTAINER RETURN DATE (IF APPLICABLE)
 3. SODIUM HYPOCHLORITE SAFETY DATA SHEETS SHALL BE PROMINENTLY DISPLAYED INSIDE CHLORINATION BUILDING AND BE EASILY ACCESSIBLE
 4. PROVIDE FIRE EXTINGUISHER INSIDE BUILDING.
 5. VERIFY DIMENSIONS OF ALL PARTS BEFORE CONSTRUCTION TO ENSURE PIPE PENETRATIONS ARE AT THE CORRECT LOCATION.

CONSTRUCT NEW BUILDING, SEE SHEET S-101

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



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



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

SYSTEM FILTRATION AND CHLORINATION PROJECT
COLE CANYON WATER COMPANY

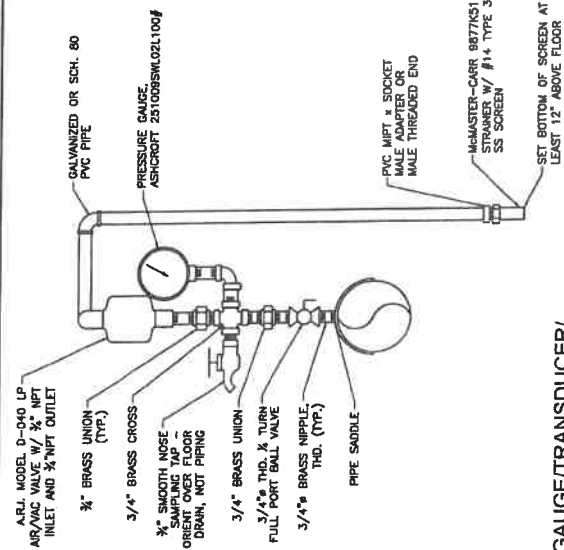
PIPING PLAN AND SECTION

NO.	DESCRIPTION	REVISION	DATE
1	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
2	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
3	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
4	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
5	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
6	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
7	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
8	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
9	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
10	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
11	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
12	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
13	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
14	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
15	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
16	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
17	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
18	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
19	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
20	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
21	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
22	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
23	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
24	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
25	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
26	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
27	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		
28	ADD 8" WALL WITHIN 11' OF EXISTING WALL TO PROVIDE 11' CLEARANCE TO 11' WALL. SEE DETAIL D2, C-501 FOR AIR GAP REQUIREMENTS.		

JUB ENGINEERS, INC.
466 North 900 West
Keyville, Utah 84037
Phone: 801.347.0383
www.jub.com

BID SET

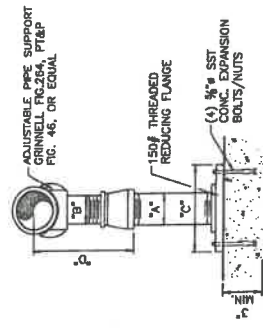
M-101
SHEET NUMBER



SCALENTS

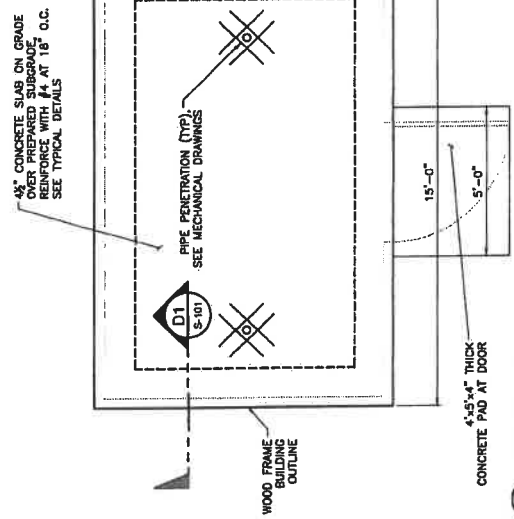
ADJUSTABLE PIPE SUPPORT						
APPROXIMATE DIMENSIONS IN INCHES						
PIPE SIZE	A	B	C	D MINIMUM	D MAXIMUM	
3	2 1/2	1 3/4	9	8 1/2	1 3/4	
4	3	2 1/2	9	9 1/2	1 1/2	
5	3	2 3/4	9	10	1 1/4	
6	3	3	9	10 1/2	1 3/4	
8	3	3 1/2	9	11 1/2	1 1/2	
10	3	3 3/4	9	12 1/2	1 3/4	1 1/2
12	3	4	9	13 1/2	1 1/2	1 3/4
14	4	3	11	15	1 1/2	1 3/4
16	4	3 1/2	11	15 1/2	1 3/4	1 1/2
18	4	3	13 1/2	17 1/2	2 1/4	2 1/2
20	4	3 1/2	13 1/2	17 1/2	2 1/4	2 1/2
22	6	3	13 1/2	21	2 1/2	2 3/4
24	6	4	13 1/2	21 1/2	2 3/4	2 1/2
26	6	4	13 1/2	23 1/2	2 3/4	2 1/2

NOTE:
PIPE SUPPORTS TO BE HOT DIP
GALVANIZED AFTER FABRICATION.

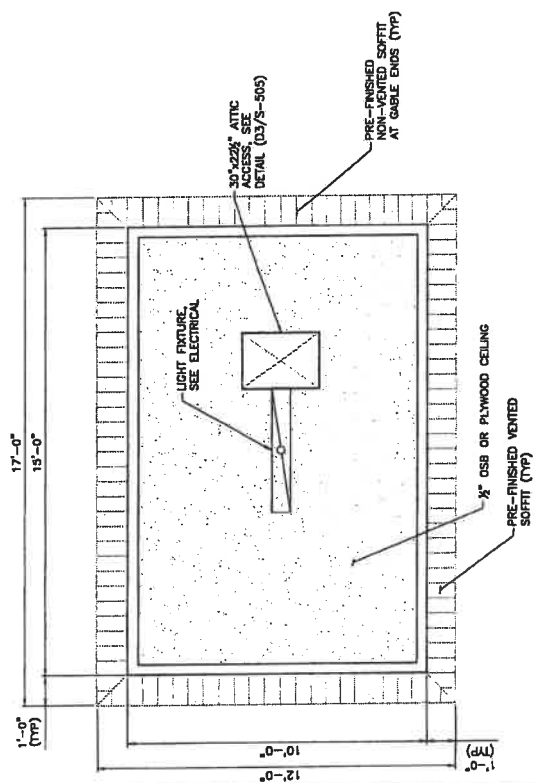


B3 **PIPE SUPPORT DETAIL**
SCALE: N.T.S.

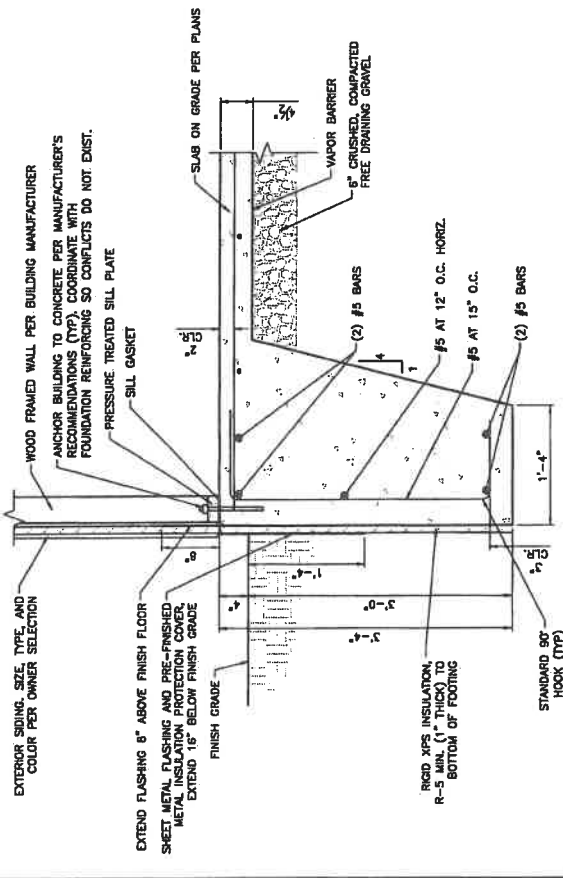
- NOTES:
1. COORDINATE PLACEMENT OF FLOOR DRAINS AND EQUIPMENT. SEE MECHANICAL PLANS.
 2. PROVIDE A SMOOTH TROWEL SURFACE FINISH TO ALL INTERIOR CONCRETE SLABS.
 3. PROVIDE A SMOOTH TROWEL SURFACE FINISH TO ALL INTERIOR CONCRETE SLABS.
 4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.



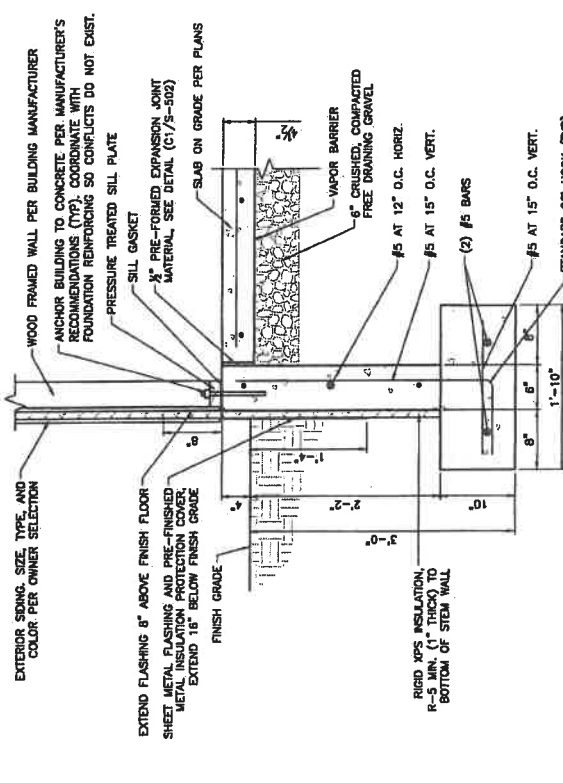
B1 FOUNDATION PLAN
SCALE 1/2" = 1'-0"



B3 REFLECTED CEILING PLAN
SCALE 1/2" = 1'-0"



D1 FOOTING DETAIL
SCALE 1/2" = 1'-0"



OPTION B

SYSTEM FILTRATION AND CHLORINATION PROJECT
COLE CANYON WATER COMPANY

STRUCTURAL PLANS

J-J-B ENGINEERS, INC.
466 North 900 West
Kaysville, Utah 84037
Phone: 801.547.0393
Fax: 801.547.0393
www.jjb.com

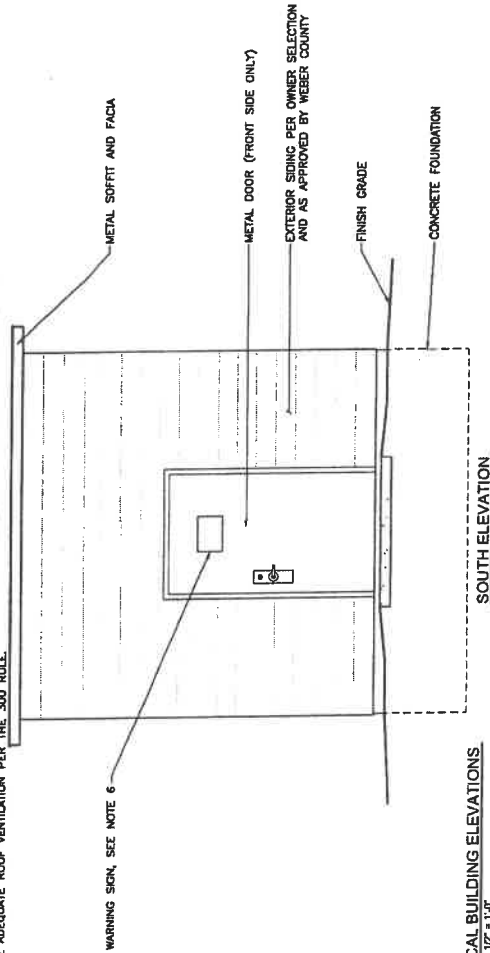


NO.	REVISION	DATE

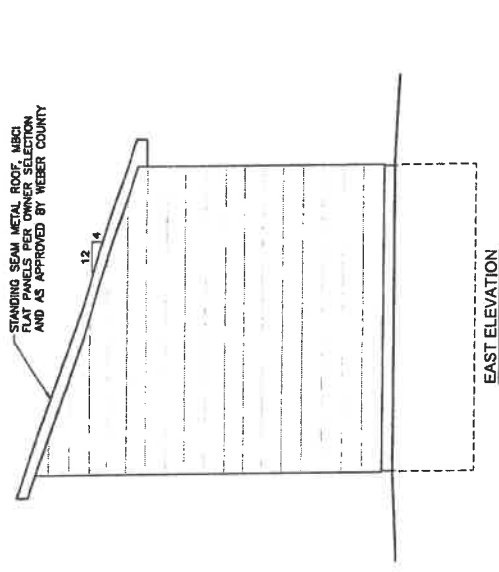
S-101
SHEET NUMBER

NOTES:

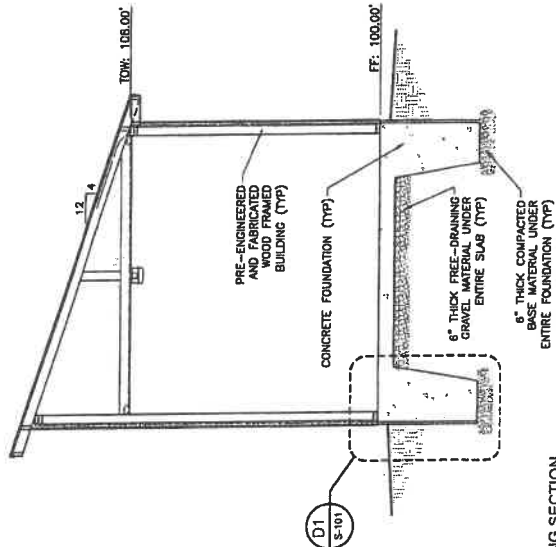
1. CONTRACTOR TO PROVIDE PRE-ENGINEERED AND FABRICATED WOOD FRAME BUILDINGS MEETING THE DESIGN CRITERIA AS SPECIFIED IN THE PROJECT DRAWINGS AND SPECIFICATIONS. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND STRUCTURAL CALCULATIONS FOR THE BUILDING STAMPED BY A LICENSED PROFESSIONAL ENGINEER WITH EXPERIENCE IN THE DESIGN OF STRUCTURES FOR REVIEW PRIOR TO FABRICATION.
2. CONTRACTOR TO PROVIDE A BROOM SURFACE FINISH TO ALL EXTERIOR CONCRETE SLABS AND SURFACES.
3. PROVIDE A BROOM SURFACE FINISH TO ALL EXTERIOR CONCRETE SLABS AND SURFACES.
4. EPOXY PAINT OR PROVIDE PRE-FINISHED PROTECTIVE COATINGS TO ALL EXTERIOR METAL SURFACES TO PREVENT CORROSION.
5. CONTRACTOR SHALL FURNISH AND INSTALL TRIMS, FLASHING, AND FINISH PIECES TO PRESENT A FINISHED APPEARANCE.
6. PLACE ALUMINUM 14"X10" CHLORINE WARNING SIGN ON DOOR EXTERIOR. SafetySign.com ITEM #F8461-BK OR EQUIVALENT.
7. PROVIDE ADEQUATE ROOF VENTILATION PER THE 300 RULE.



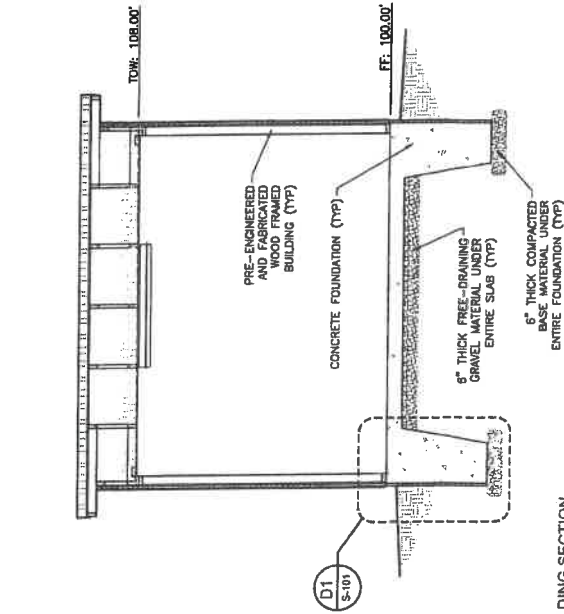
B1 TYPICAL BUILDING ELEVATIONS
SCALE: 1/2" = 1'-0"



EAST ELEVATION



D1 TYPICAL BUILDING SECTION
SCALE: 1/2" = 1'-0"



D3 TYPICAL BUILDING SECTION
SCALE: 1/2" = 1'-0"

SYSTEM FILTRATION AND CHLORINATION PROJECT COLE CANYON WATER COMPANY

STRUCTURAL ELEVATIONS

NO.	DESCRIPTION	BY	DATE

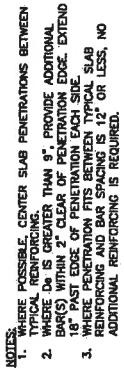


BID SET

JUB ENGINEERS, INC.
466 North 900 West
Keyville, Utah 84037
Phone: 801.547.0397
Fax: 801.547.0397
www.jub.com



DATE	2023.08.14
BY	JUB
CHECKED BY	JUB
DATE	2023.08.14
SCALE	AS SHOWN
PROJECT	SYSTEM FILTRATION AND CHLORINATION PROJECT
CLIENT	COLE CANYON WATER COMPANY
LOCATION	UTAH
PROJECT NO.	2023.08.14
SHEET NUMBER	S-201



TYPICAL LAP SPICE LENGTHS IN INCHES, PER ACI 318												
BAR SIZE	LAP CLASS	F _c =3,000 psi			F _c =4,000 psi			F _c =4,500 psi			F _c =5,000 psi	
		CAT. 1	CAT. 2	CAT. 1	CAT. 2	CAT. 1	CAT. 2	CAT. 1	CAT. 2	CAT. 1	CAT. 2	CAT. 2
#4	A	22	33	19	28	18	27	17	25			
	B	26	43	25	37	24	35	22	33			
#5	A	27	41	24	36	23	34	21	32			
	B	36	53	31	46	30	44	28	41			
#6	A	33	49	28	43	27	41	25	38			
	B	43	64	37	55	35	53	33	50			
#7	A	48	72	42	62	40	59	37	56			
	B	62	93	54	81	51	77	48	72			
#8	A	55	82	47	71	45	66	42	64			
	B	71	106	61	92	58	86	55	83			
#9	A	62	92	53	80	51	76	48	72			
	B	80	120	69	104	66	99	62	93			

- NOTES:
- FOR GRADE 60 REINFORCING STEEL BARS.
 - ALL LAP SPICES SHALL BE CLASS B, UNLESS NOTED OTHERWISE.
 - CATEGORY 1: CLEAR COVER $\geq 4\phi$ AND CLEAR SPACING $\geq 4\phi$ AND STRIPS OR TIES THROUGHOUT L_d ARE PROVIDED.
 - CATEGORY 2: CLEAR COVER $\geq 4\phi$ AND CLEAR SPACING $\geq 2\phi$. FOR TOP BARS, MULTIPLY LAP LENGTH LISTED BY 1.30. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
 - 1.30. EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.30.

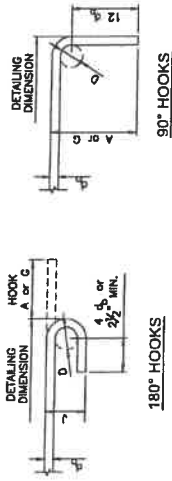
B1 TYPICAL REBAR LAP SPICE SCHEDULE

SCALE: NOT TO SCALE



C1 EXPANSION JOINT SEALANT DETAIL

SCALE: NOT TO SCALE

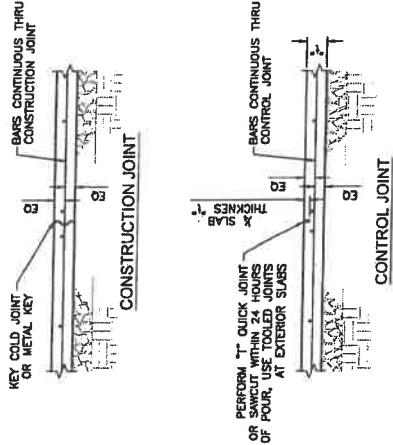


TYPICAL HOOK DIMENSIONS				
BAR SIZE	D	180° HOOKS A or G	90° HOOKS A or G	J
#3	2 1/8"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 1/2"	7"	5"	10"
#6	4 1/4"	8"	6"	11"
#7	5 1/4"	10"	7"	12"
#8	6"	11"	8"	13"
#9	6 1/2"	12"	9"	14"
#10	7 1/4"	13"	10"	15"
#11	8 1/4"	14"	11"	16"
#12	9 1/4"	15"	12"	17"

- NOTES:
- ϕ = NOMINAL BAR DIAMETER.
 - D = FINISHED INSIDE BEND DIAMETER.
 - MINIMUM D = 6 ϕ FOR #3 TO #8 BARS.
 - MINIMUM D = 8 ϕ FOR #9 TO #11 BARS.
 - MINIMUM D = 10 ϕ FOR #12 AND #13 BARS.

B2 TYPICAL REBAR HOOK DETAILS

SCALE: NOT TO SCALE



B3 SLAB ON GRADE JOINT DETAIL

SCALE: NOT TO SCALE

SYSTEM FILTRATION AND CHLORINATION PROJECT

COLE CANYON AND CHLORINATION PROJECT

TYPICAL FOUNDATION DETAILS

DATE	10/1/2017
BY	JUB
CHECKED BY	JUB
APPROVED BY	JUB
SCALE	AS SHOWN
SHEET NUMBER	S-502

JUB ENGINEERS, INC.
466 North 900 West
Kayville, Utah 84037
Phone: 801.547.6093
Fax: 801.547.6097
www.jub.com



REVISION	DATE	DESCRIPTION
1	10/1/2017	ISSUED FOR CONSTRUCTION

CONDUIT/CONDUCTOR SCHEDULE *			
AWP RATING	DRINKING ID INCH	CONDUCTOR ID INCH	MIN. CONDUIT SIZE EXCEPTIONS
20"	2 1/2	2 1/2	3 1/4"
20"	3 1/2	3 1/2	3 1/4"
30"	4 1/2	4 1/2	3 1/4"
30"	5 1/2	5 1/2	3 1/4"
40"	6 1/2	6 1/2	3 1/4"
40"	7 1/2	7 1/2	3 1/4"
50"	8 1/2	8 1/2	3 1/4"
50"	9 1/2	9 1/2	3 1/4"
60"	10 1/2	10 1/2	3 1/4"
60"	11 1/2	11 1/2	3 1/4"
70"	12 1/2	12 1/2	3 1/4"
70"	13 1/2	13 1/2	3 1/4"
80"	14 1/2	14 1/2	3 1/4"
80"	15 1/2	15 1/2	3 1/4"
90"	16 1/2	16 1/2	3 1/4"
90"	17 1/2	17 1/2	3 1/4"
100"	18 1/2	18 1/2	3 1/4"
100"	19 1/2	19 1/2	3 1/4"
110"	20 1/2	20 1/2	3 1/4"
110"	21 1/2	21 1/2	3 1/4"
120"	22 1/2	22 1/2	3 1/4"
120"	23 1/2	23 1/2	3 1/4"
130"	24 1/2	24 1/2	3 1/4"
130"	25 1/2	25 1/2	3 1/4"
140"	26 1/2	26 1/2	3 1/4"
140"	27 1/2	27 1/2	3 1/4"
150"	28 1/2	28 1/2	3 1/4"
150"	29 1/2	29 1/2	3 1/4"
160"	30 1/2	30 1/2	3 1/4"
160"	31 1/2	31 1/2	3 1/4"
170"	32 1/2	32 1/2	3 1/4"
170"	33 1/2	33 1/2	3 1/4"
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180"	35 1/2	35 1/2	3 1/4"
190"	36 1/2	36 1/2	3 1/4"
190"	37 1/2	37 1/2	3 1/4"
200"	38 1/2	38 1/2	3 1/4"
200"	39 1/2	39 1/2	3 1/4"
210"	40 1/2	40 1/2	3 1/4"
210"	41 1/2	41 1/2	3 1/4"
220"	42 1/2	42 1/2	3 1/4"
220"	43 1/2	43 1/2	3 1/4"
230"	44 1/2	44 1/2	3 1/4"
230"	45 1/2	45 1/2	3 1/4"
240"	46 1/2	46 1/2	3 1/4"
240"	47 1/2	47 1/2	3 1/4"
250"	48 1/2	48 1/2	3 1/4"
250"	49 1/2	49 1/2	3 1/4"
260"	50 1/2	50 1/2	3 1/4"
260"	51 1/2	51 1/2	3 1/4"
270"	52 1/2	52 1/2	3 1/4"
270"	53 1/2	53 1/2	3 1/4"
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290"	57 1/2	57 1/2	3 1/4"
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330"	64 1/2	64 1/2	3 1/4"
330"	65 1/2	65 1/2	3 1/4"
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380"	74 1/2	74 1/2	3 1/4"
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600"	119 1/2	119 1/2	3 1/4"
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680"	135 1/2	135 1/2	3 1/4"
690"	136 1/2	136 1/2	3 1/4"
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700"	138 1/2	138 1/2	3 1/4"
700"	139 1/2	139 1/2	3 1/4"
710"	140 1/2	140 1/2	3 1/4"
710"	141 1/2	141 1/2	3 1/4"
720"	142 1/2	142 1/2	3 1/4"
720"	143 1/2	143 1/2	3 1/4"
730"	144 1/2	144 1/2	3 1/4"
730"	145 1/2	145 1/2	3 1/4"
740"	146 1/2	146 1/2	3 1/4"
740"	147 1/2	147 1/2	3 1/4"
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750"	149 1/2	149 1/2	3 1/4"
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760"	151 1/2	151 1/2	3 1/4"
770"	152 1/2	152 1/2	3 1/4"
770"	153 1/2	153 1/2	3 1/4"
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800"	159 1/2	159 1/2	3 1/4"
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820"	163 1/2	163 1/2	3 1/4"
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980"	194 1/2	194 1/2	3 1/4"
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1000"	198 1/2	198 1/2	3 1/4"
1000"	199 1/2	199 1/2	3 1/4"
1010"	200 1/2	200 1/2	3 1/4"
1010"	201 1/2	201 1/2	3 1/4"
1020"	202 1/2	202 1/2	3 1/4"
1020"	203 1/2	203 1/2	3 1/4"
1030"	204 1/2	204 1/2	3 1/4"
1030"	205 1/2	205 1/2	3 1/4"
1040"	206 1/2	206 1/2	3 1/4"
1040"	207 1/2	207 1/2	3 1/4"
1050"	208 1/2	208 1/2	3 1/4"
1050"	209 1/2	209 1/2	3 1/4"
1060"	210 1/2	210 1/2	3 1/4"
1060"	211 1/2	211 1/2	3 1/4"
1070"	212 1/2	212 1/2	3 1/4"
1070"	213 1/2	213 1/2	3 1/4"
1080"	214 1/2	214 1/2	3 1/4"
1080"	215 1/2	215 1/2	3 1/4"
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1100"	218 1/2	218 1/2	3 1/4"
1100"	219 1/2	219 1/2	3 1/4"
1110"	220 1/2	220 1/2	3 1/4"
1110"	221 1/2	221 1/2	3 1/4"
1120"	222 1/2	222 1/2	3 1/4"
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1130"	224 1/2	224 1/2	3 1/4"
1130"	225 1/2	225 1/2	3 1/4"
1140"	226 1/2	226 1/2	3 1/4"
1140"	227 1/2	227 1/2	3 1/4"
1150"	228 1/2	228 1/2	3 1/4"
1150"	229 1/2	229 1/2	3 1/4"
1160"	230 1/2	230 1/2	3 1/4"
1160"	231 1/2	231 1/2	3 1/4"
1170"	232 1/2	232 1/2	3 1/4"
1170"	233 1/2	233 1/2	3 1/4"
1180"	234 1/2	234 1/2	3 1/4"
1180"	235 1/2	235 1/2	3 1/4"
1190"	236 1/2	236 1/2	3 1/4"
1190"	237 1/2	237 1/2	3 1/4"
1200"	238 1/2	238 1/2	3 1/4"
1200"	239 1/2	239 1/2	3 1/4"
1210"	240 1/2	240 1/2	3 1/4"
1210"	241 1/2	241 1/2	3 1/4"
1220"	242 1/2	242 1/2	3 1/4"
1220"	243 1/2	243 1/2	3 1/4"
1230"	244 1/2	244 1/2	3 1/4"
1230"	245 1/2	245 1/2	3 1/4"
1240"	246 1/2	246 1/2	3 1/4"
1240"	247 1/2	247 1/2	3 1/4"
1250"	248 1/2	248 1/2	3 1/4"
1250"	249 1/2	249 1/2	3 1/4"
1260"	250 1/2	250 1/2	3 1/4"
1260"	251 1/2	251 1/2	3 1/4"
1270"	252 1/2	252 1/2	3 1/4"
1270"	253 1/2	253 1/2	3 1/4"
1280"	254 1/2	254 1/2	3 1/4"
1280"	255 1/2	255 1/2	3 1/4"
1290"	256 1/2	256 1/2	3 1/4"
1290"	257 1/2	257 1/2	3 1/4"
1300"	258 1/2	258 1/2	3 1/4"
1300"	259 1/2	259 1/2	3 1/4"
1310"	260 1/2		



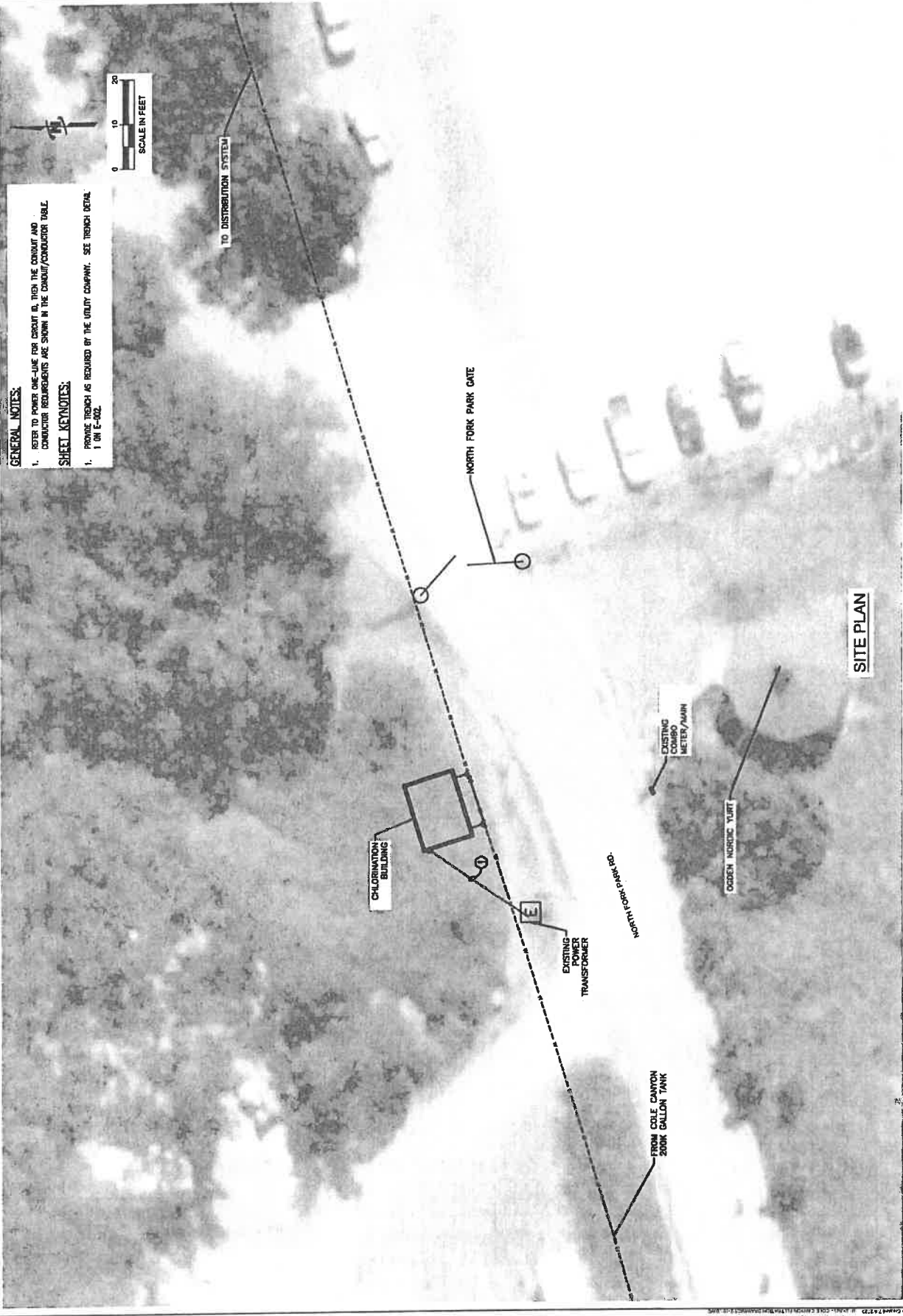
J-U-B ENGINEERS, INC.
466 North 900 West
Kayville, Utah 84037
Phone: 801.547.0337
Fax: 801.547.0337
www.jub.com



REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	01/10/07		ISSUED FOR BIDDING

SYSTEM FILTRATION AND CHLORINATION PROJECT
COLE CANYON WATER COMPANY
ELECTRICAL SITE PLAN

DATE: 01/10/07
PROJECT NO.: 06-27-006
SHEET NO.: 101
SHEET NUMBER: E-101



GENERAL NOTES:
1. REFER TO POWER ONE-LINE FOR CIRCUIT ID, THEN THE CIRCUIT AND CONDUCTOR REQUIREMENTS ARE SHOWN IN THE CIRCUIT/CONDUCTOR TABLE.

SHEET KEYNOTES:
1. PROVIDE TRENCH AS REQUIRED BY THE UTILITY COMPANY. SEE TRENCH DETAIL 1 ON E-101.

SITE PLAN



JUB ENGINEERS, INC.
466 North 900 West
Kaysville, Utah 84037
Phone: 801.547.0393
Fax: 801.547.0393
WWW.JUB.COM



NO.	DESCRIPTION	DATE
1	REVISION	
2	REVISION	
3	REVISION	
4	REVISION	
5	REVISION	
6	REVISION	
7	REVISION	
8	REVISION	
9	REVISION	
10	REVISION	

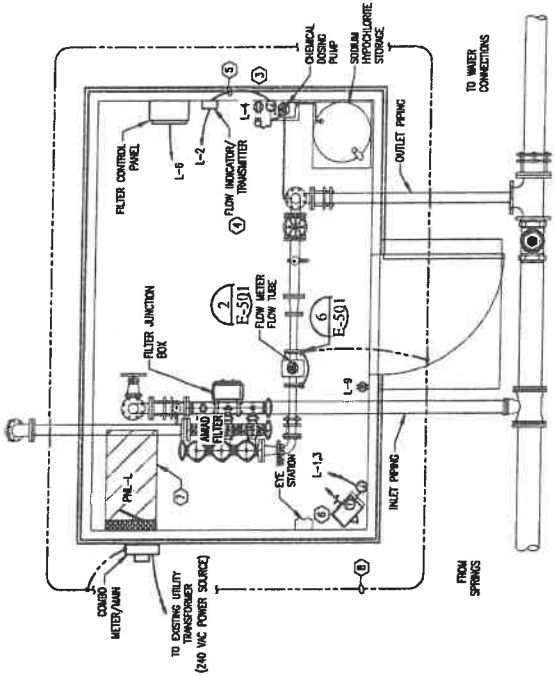
SYSTEM FILTRATION AND CHLORINATION PROJECT COLE CANYON WATER COMPANY ELECTRICAL PLANS

DATE	11/19
BY	KEITH HEIDORN
CHECKED BY	KEITH HEIDORN
APPROVED BY	KEITH HEIDORN
SCALE	AS SHOWN
PROJECT NO.	10000000000000000000
SHEET NUMBER	E-102

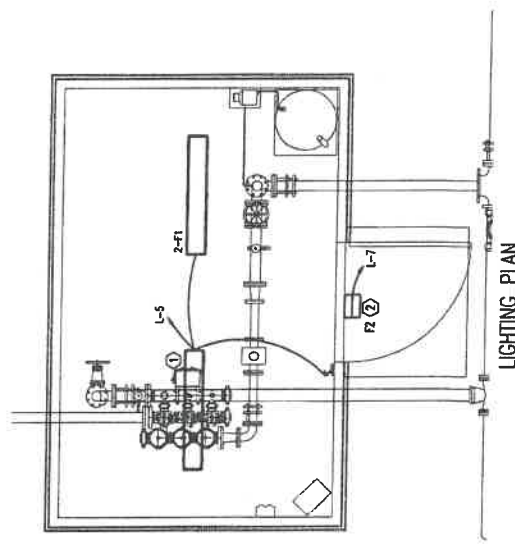
FOR INFORMATION ABOUT THIS JOB, PLEASE CONTACT KEITH HEIDORN
HEIDORN POWER ENGINEERING INCORPORATED
10000000000000000000
PHONE: 801.547.0393
FAX: 801.547.0393
WWW.JUB.COM

- GENERAL NOTES:**
- REFER TO PANELBOARD SCHEDULE OR POWER ONE-LINE DIAGRAM FOR THE CIRCUIT ID. THEN, THE WIRE AND CIRCUIT REQUIREMENTS ARE LISTED IN THE CIRCUIT/CONDUCTOR TABLE ON E-002.
 - INSTALL INTERIOR RECEPTACLES AT 4'-0" ABOVE THE ROOM FLOOR.
 - INSTALL EXTERIOR RECEPTACLES AT 4'-0" ABOVE FINISHED SURFACE AND PROVIDE IN-SERVICE W/P COVER.

- SHEET REMARKS:**
- PROVIDE A 90-MINUTE BATTERY POWER SUPPLY IN THIS FUTURE.
 - INSTALL FUTURE 6-IN ABOVE CENTER OF DOOR.
 - INSTALL OUTLET FOR CHEMICAL PUMP 6-IN ABOVE TOP OF PUMP.
 - INSTALL FLOW INDICATOR/TRANSMITTER 4'-0" ABOVE FINISHED FLOOR.
 - DOSING PUMP SCHEDULE: INSTALL A 1-200 VOLT THE DOSING PUMP AND INSTALL A 3/4" WITH #18 TSP TO THE FLOW INDICATOR/TRANSMITTER.
 - LOCATE FUTURE SUCH THAT AN OPERATOR CAN REACH THE BUILT-IN TRANSMITTER.
 - MAINTAIN NET WORKING CLEARANCE TO PANELBOARD.
 - AWG NO. 2 BE BURIED 18-IN DEEP AND 24-IN FROM BUILDING CONCRETE PAD.



ELECTRICAL PLAN



LIGHTING PLAN



JUB ENGINEERS, INC.
466 North 900 West
Payson, Utah 84057
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www.jub.com



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SYSTEM FILTRATION AND CHLORINATION PROJECT
COLE CANYON WATER COMPANY
ELECTRICAL DETAILS, SHT. 1

SHEET NUMBER: E-501

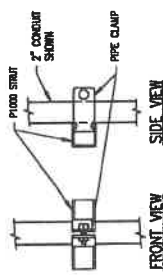
JUB INC. ELECTRICAL ENGINEERS
HEADQUARTERS POWER ENGINEERING INCORPORATED
1000 WEST 1000 SOUTH
AMERICAN PARK, UT 84003
(801) 544-2053
FAX (801) 544-2054
FOR INFORMATION ABOUT THIS JOB, PLEASE CONTACT: KATH HEDGECOCK
HPE PROJECT-23.04.3

GENERAL NOTES:

- 1. NOT USED

SHEET REMARKS:

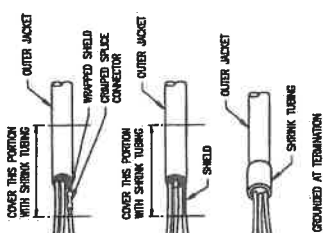
- 1. NOT USED



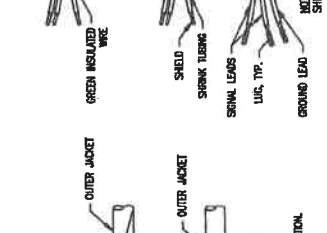
CONDUIT PIPE CLAMP	CONDUIT SIZE	PIPE CLAMP
1/2"	P1405	P1111
3/4"	P1406	P1112
1"	P1407	P1113
1 1/4"	P1408	P1114
1 1/2"	P1409	P1115
2"	P1410	P1116
2 1/2"	P1411	P1117
3"	P1412	P1118
3 1/2"	P1413	P1119
4"	P1414	P1120
4 1/2"	P1415	P1121

* = SUPPLIED WITH SLOTTED HEAD SCREW AND NUT

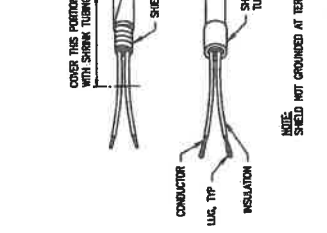
1 TYPICAL CONDUIT CLAMP
SCALE: 3/4" = 1'-0"



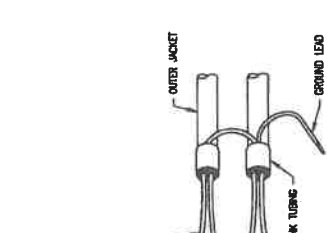
TERMINATION OF SHIELDED CONTROL CABLE W/IS



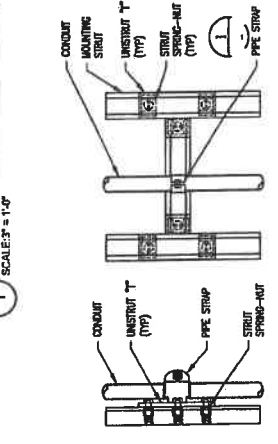
TERMINATION OF SHIELDED CONTROL CABLE W/IS



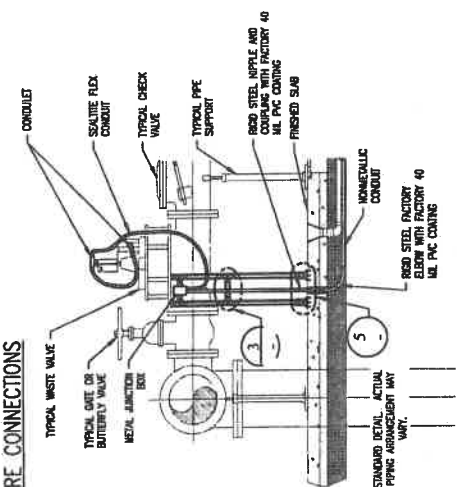
TERMINATION OF SHIELDED CONTROL CABLE W/IS



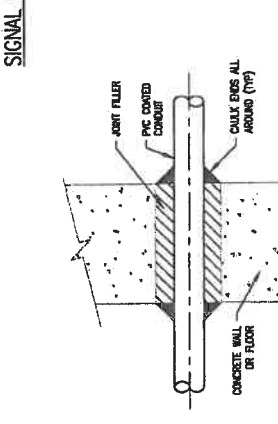
UNACCEPTABLE METHOD OF GROUNDING CONTROL CABLE SHIELD W/IS



3 CONDUIT SUPPORT BRACE
SCALE: 3/4" = 1'-0"

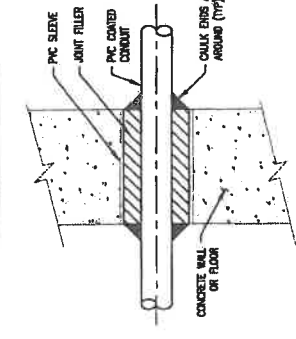


2 CONDUIT INSTALLATION
SCALE: 3/4" = 1'-0"

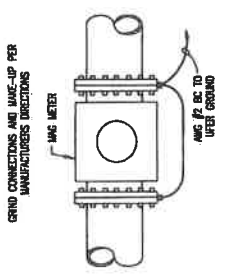


CONDUIT INSTALLATION THROUGH EXISTING CONCRETE

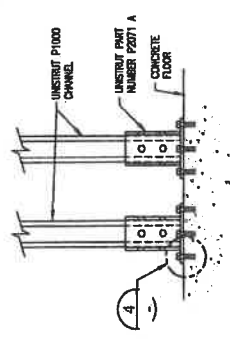
CONDUIT INSTALLATION THROUGH NEW CONCRETE



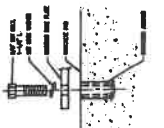
CONDUIT INSTALLATION THROUGH NEW CONCRETE



6 MAG METER GROUNDING
SCALE: 1 1/2" = 1'-0"



5 SUPPORT BASE INSTALLATION
SCALE: 3/4" = 1'-0"



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

