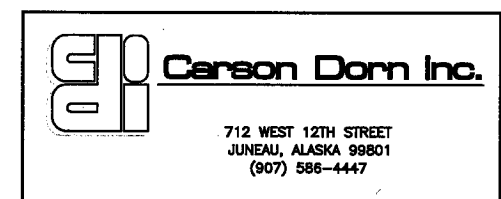
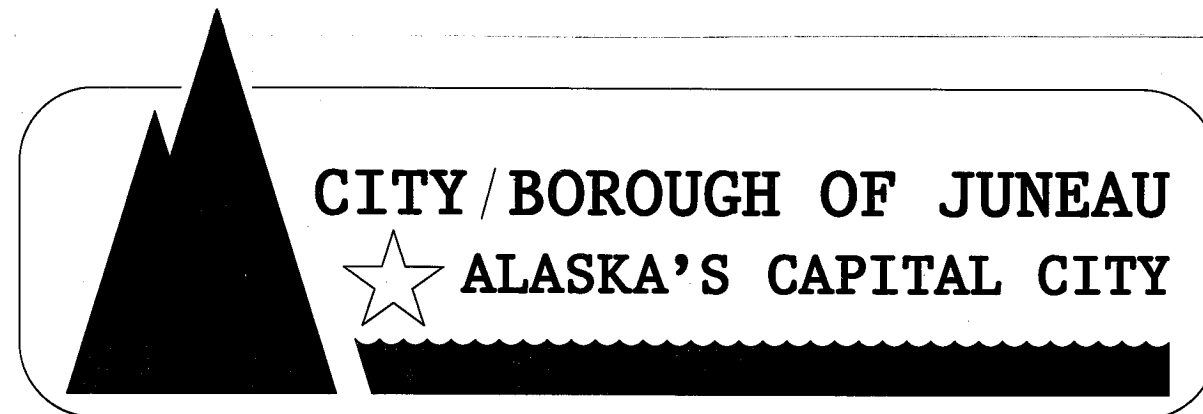


JUNEAU WATER SYSTEM

EAST VALLEY RESERVOIR EXTERIOR AND LEMON CREEK RESERVOIR INTERIOR REPAINTING

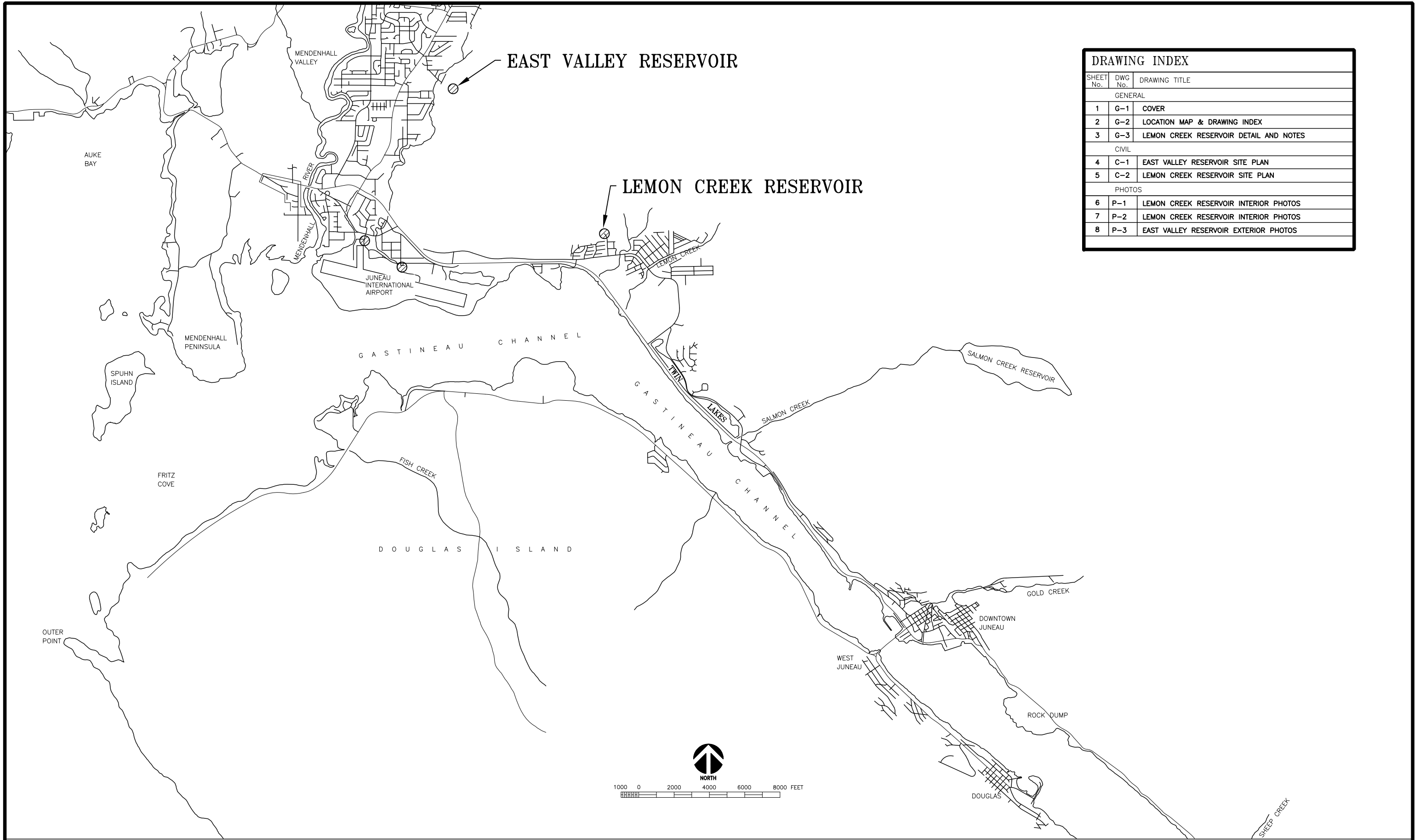
CITY AND
BOROUGH
OF JUNEAU

ENGINEERING
DEPARTMENT



CONTRACT No. E12-210

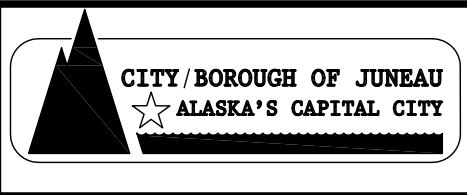
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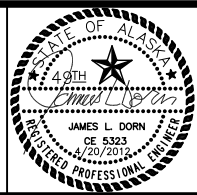
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SHEET No.	DWG No.	DRAWING TITLE
GENERAL		
1	G-1	COVER
2	G-2	LOCATION MAP & DRAWING INDEX
3	G-3	LEMON CREEK RESERVOIR DETAIL AND NOTES
CIVIL		
4	C-1	EAST VALLEY RESERVOIR SITE PLAN
5	C-2	LEMON CREEK RESERVOIR SITE PLAN
PHOTOS		
6	P-1	LEMON CREEK RESERVOIR INTERIOR PHOTOS
7	P-2	LEMON CREEK RESERVOIR INTERIOR PHOTOS
8	P-3	EAST VALLEY RESERVOIR EXTERIOR PHOTOS

REV	DATE	BY	DESCRIPTION

SCALE GRAPHIC
 DESIGNED JLD
 DRAWN GDM
 CHECKED JLD
 DATE APR 2012



**EAST VALLEY RESERVOIR EXTERIOR
 AND
 LEMON CREEK RESERVOIR INTERIOR
 REPAINTING**
 CONTRACT NO. E12-210

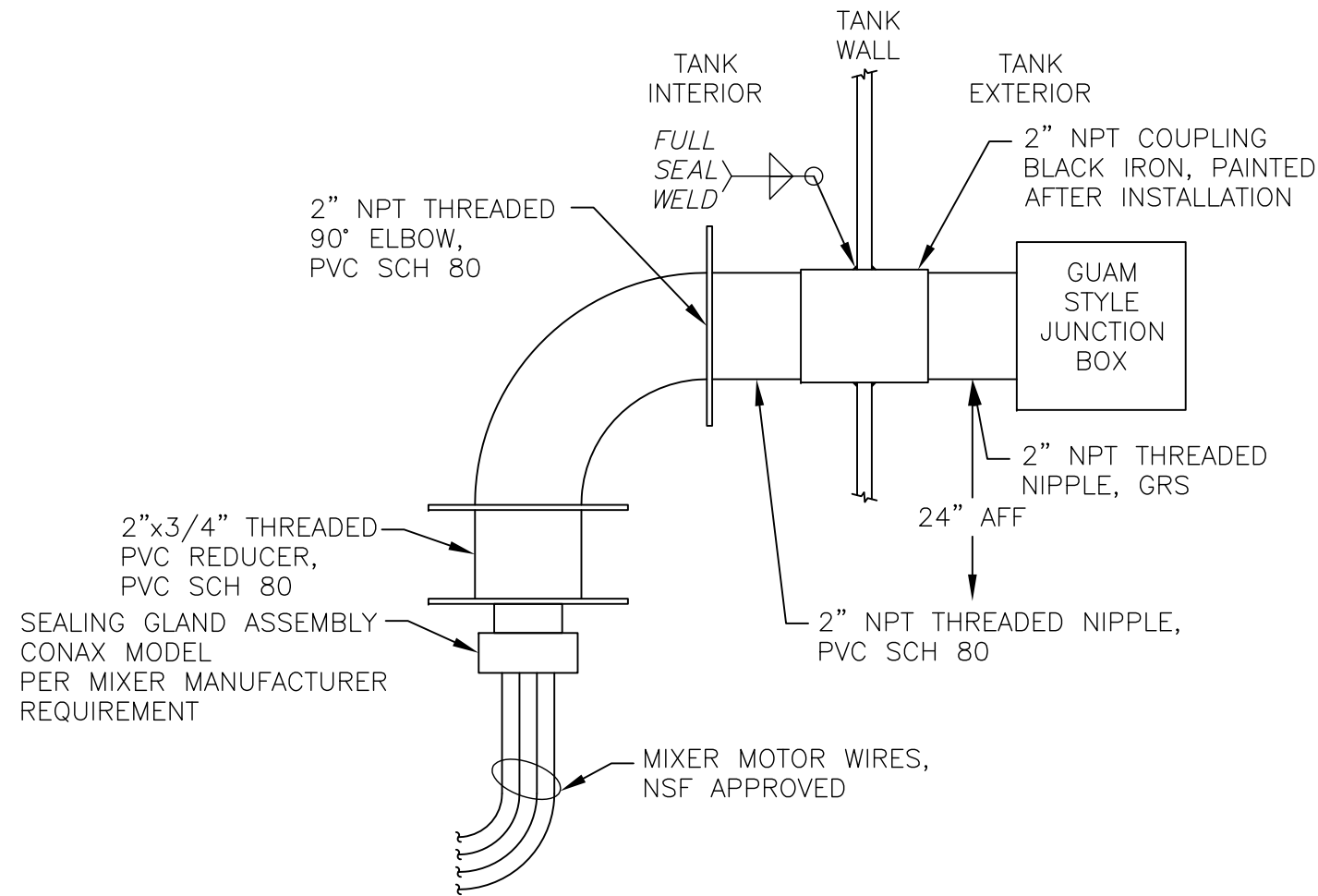


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 712 WEST 12TH STREET
 JUNEAU, ALASKA 99801
 (907) 586-4447

LOCATION MAP & DRAWING INDEX

DRAWING
G-2
 SHEET NO.
 2 of 8

G:\200d\c01\East Valley Reservoir\East Valley Reservoir 03-D11-Notes.dwg PLOT: April 20, 2012 dt: 9:33am Administrator



TANK CONNECTION FOR MIXER

N.T.S.

ELECTRICAL NOTES:

1. PROVIDE ALL WORK REQUIRED TO POWER AND CONTROL THE PAX MIXER IN THE LEMON CREEK RESERVOIR. PERFORM ALL WORK PER THE NATIONAL ELECTRICAL CODE AS ADOPTED BY THE CBJ, AND PER APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
2. ALL WIRING SHALL BE IN RIGID STEEL CONDUIT WHERE EXPOSED, INSIDE THE VAULT, AND WITHIN TEN FEET OF THE RESERVOIR AND VAULT. SCHEDULE 40 PVC CONDUIT MAY BE USED UNDERGROUND IN OTHER LOCATIONS. ALL CONDUCTORS SHALL BE COPPER WITH XHHW INSULATION. ALL CONDUIT BODIES AND JUNCTION BOXES SHALL BE MALLEABLE IRON.
3. MOUNT THE PAX MIXER CONTROL PANEL IN THE VAULT. COORDINATE LOCATION WITH OWNER. PROVIDE WORKING ROOM IN FRONT OF PANEL. POWER THE PANEL FROM A NEW 20 AMP, SINGLE POLE CIRCUIT BREAKER IN THE EXISTING 120/240V, SINGLE PHASE, THREE WIRE PANEL IN THE VAULT (ITE UBA20/13B). CONTROL AND MONITOR THE PANEL FROM THE EXISTING ALLEN BRADLEY PLC5 INPUT/OUTPUT CARDS IN THE EXISTING SCADA PANEL IN THE VAULT. THE PAX CONTROL PANEL HAS TERMINALS TO RECEIVE A DIGITAL "ON/OFF" CONTROL FROM THE SCADA SYSTEM. IT ALSO HAS TERMINALS TO PROVIDE A "PAX RUNNING" DIGITAL OUTPUT AND A "FAULT" DIGITAL OUTPUT. THE DIGITAL INPUT AND OUTPUT CARDS HAS SPARE TERMINALS FOR THESE CONNECTIONS. COORDINATE WITH THE OWNER'S SCADA CONSULTANT AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS TO PROVIDE THE CORRECT WIRING CONFIGURATION FOR CONTROL AND MONITORING.
4. ROUTE THE PAX MIXER CABLE FROM THE PAX CONTROL PANEL IN THE VAULT TO THE PAX MIXER IN THE RESERVOIR IN THE FOLLOWING MANNER:
 - A. ROUTE THE CABLE FROM THE CONTROL PANEL IN A 2" CONDUIT ALONG THE VAULT WALL THEN UNDERGROUND TO THE RESERVOIR. ROUTE THE CONDUIT UP THE SIDE OF THE RESERVOIR TO A LB CONDULET THAT IS CONNECTED TO THE SIDE OF A 5" DIAMETER JUNCTION BOX (GUAM STYLE). INSTALL A SCREEN IN THE CONDUIT OPENING IN THE BOTTOM OF THE JUNCTION BOX.
 - B. THEN ROUTE THE CABLE THROUGH A NIPPLE OUT OF THE BACK OF THE JUNCTION BOX THAT IS CONNECTED TO A FEMALE COUPLING WELDED IN THE RESERVOIR WALL. INSIDE THE RESERVOIR, ROUTE THE CABLE THROUGH A PVC SCHEDULE 80 NIPPLE, ELBOW AND REDUCER TO A WATER TIGHT CABLE GLAND FITTING THAT IS ATTACHED TO THE REDUCER ON THE INSIDE OF THE RESERVOIR. (SEE TANK CONNECTION FOR MIXER DETAIL)
 - C. ROUTE THE CABLE FROM THE GLAND FITTING DOWN TO THE RESERVOIR FLOOR AND ACROSS THE FLOOR TO THE MIXER.
5. INSTALL A SECOND 2" CONDUIT FROM INSIDE THE LEMON CREEK RESERVOIR VAULT TO A SECOND FEMALE COUPLING IN THE TANK WALL IN THE SAME MANNER AS DESCRIBED ABOVE. INSTALL A PLUG IN THE COUPLING ON THE INSIDE OF THE RESERVOIR. THIS IS A SPARE CONDUIT FOR FUTURE USE.
6. THE MIXER SHALL BE OPERATED MANUALLY FROM THE CONTROL PANEL BY ROTATING A HAND-OFF-AUTO SWITCH TO "HAND". THE MIXER SHALL BE OPERATED BY THE SCADA SYSTEM WHEN THE SWITCH IS IN THE "AUTO" POSITION. THE MIXER SHALL NOT RUN WHEN THE SWITCH IS IN THE HAND POSITION.
7. COORDINATE AS REQUIRED WITH THE PAX MANUFACTURER AS REQUIRED TO PROCURE THE CONTROL PANEL WITH THE APPROPRIATE FEATURES TO OPERATE THE SYSTEM AS DESCRIBED.
8. COORDINATE WITH THE OWNER'S SCADA CONSULTANT TO PROGRAM THE SCADA SYSTEM TO MONITOR AND CONTROL THE SYSTEM AS DESCRIBED.

REV	DATE	BY	DESCRIPTION

SCALE GRAPHIC

DESIGNED JLD

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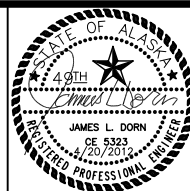
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CITY/BOROUGH OF JUNEAU
ALASKA'S CAPITAL CITY

EAST VALLEY RESERVOIR EXTERIOR AND LEMON CREEK RESERVOIR INTERIOR REPAINTING

CONTRACT NO. E12-210



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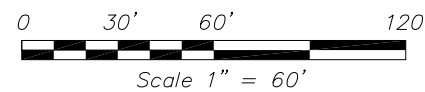
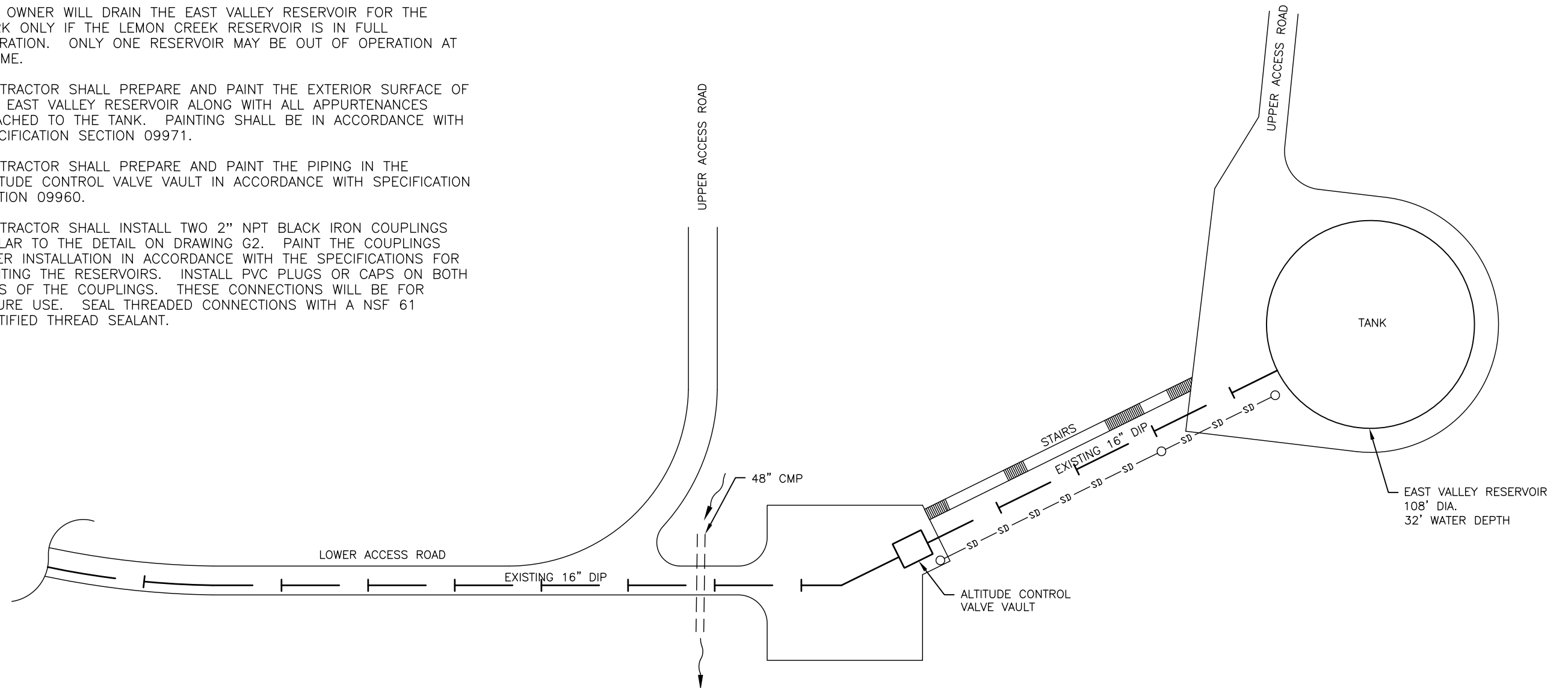
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LEMON CREEK RESERVOIR DETAIL AND NOTES

DRAWING	G-3
SHEET NO.	3 of 8

EAST VALLEY RESERVOIR SCOPE OF WORK

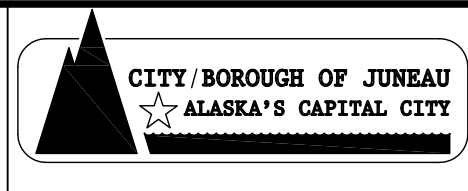
1. THE OWNER WILL DRAIN THE EAST VALLEY RESERVOIR FOR THE WORK ONLY IF THE LEMON CREEK RESERVOIR IS IN FULL OPERATION. ONLY ONE RESERVOIR MAY BE OUT OF OPERATION AT A TIME.
2. CONTRACTOR SHALL PREPARE AND PAINT THE EXTERIOR SURFACE OF THE EAST VALLEY RESERVOIR ALONG WITH ALL APPURTENANCES ATTACHED TO THE TANK. PAINTING SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 09971.
3. CONTRACTOR SHALL PREPARE AND PAINT THE PIPING IN THE ALTITUDE CONTROL VALVE VAULT IN ACCORDANCE WITH SPECIFICATION SECTION 09960.
4. CONTRACTOR SHALL INSTALL TWO 2" NPT BLACK IRON COUPLINGS SIMILAR TO THE DETAIL ON DRAWING G2. PAINT THE COUPLINGS AFTER INSTALLATION IN ACCORDANCE WITH THE SPECIFICATIONS FOR PAINTING THE RESERVOIRS. INSTALL PVC PLUGS OR CAPS ON BOTH ENDS OF THE COUPLINGS. THESE CONNECTIONS WILL BE FOR FUTURE USE. SEAL THREADED CONNECTIONS WITH A NSF 61 CERTIFIED THREAD SEALANT.



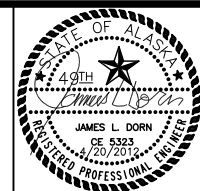
G:\2000\cuj\East Valley Reservoir\East Valley Reservoir-C1&2-SitePlan.dwg PLOT: April 20, 2012 at: 9:33am Administrator

REV	DATE	BY	DESCRIPTION

SCALE	GRAPHIC
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CHECKED	JLD
DATE	APR 2012



**EAST VALLEY RESERVOIR EXTERIOR
AND
LEMON CREEK RESERVOIR INTERIOR
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CONTRACT NO. E12-210



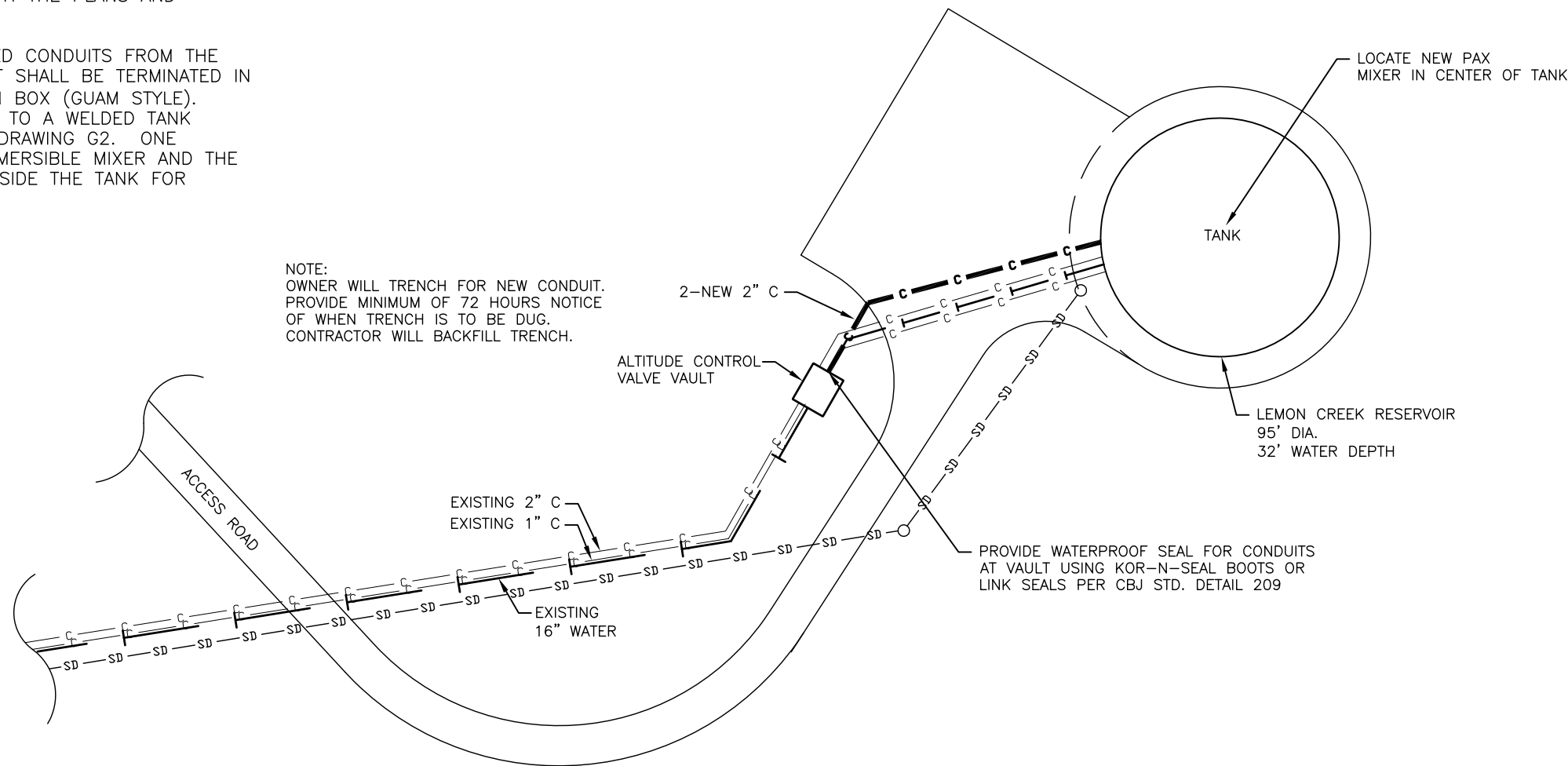
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**EAST VALLEY RESERVOIR
SITE PLAN**

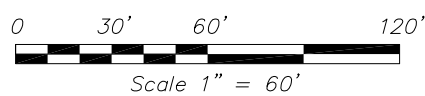
DRAWING
C-1
SHEET NO.
4 of 8

LEMON CREEK RESERVOIR SCOPE OF WORK

1. THE OWNER WILL DRAIN THE LEMON CREEK RESERVOIR FOR THE WORK ONLY IF THE EAST VALLEY RESERVOIR IS IN FULL OPERATION. ONLY ONE RESERVOIR MAY BE OUT OF OPERATION AT A TIME.
2. CONTRACTOR SHALL PREPARE AND PAINT THE INTERIOR SURFACES OF THE LEMON CREEK RESERVOIR ALONG WITH ALL APPURTENANCES. PAINTING SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 09900.
3. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR FURNISHING AND FUNCTIONAL OPERATION OF A SUBMERSIBLE MIXER (PAX MIXER OR APPROVED EQUAL) IN ACCORDANCE WITH THE PLANS AND SPECIFICATION SECTION 11730.
4. CONTRACTOR SHALL INSTALL TWO 2" BURIED CONDUITS FROM THE VALVE VAULT TO THE TANK. EACH CONDUIT SHALL BE TERMINATED IN A LB CONDUIT AND 5" DIAMETER JUNCTION BOX (GUAM STYLE). THE JUNCTION BOX SHALL BE CONNECTED TO A WELDED TANK COUPLING AS SHOWN ON THE DETAIL ON DRAWING G2. ONE CONNECTION WILL BE USED FOR THE SUBMERSIBLE MIXER AND THE OTHER SHALL BE CAPPED OR PLUGGED INSIDE THE TANK FOR FUTURE USE.

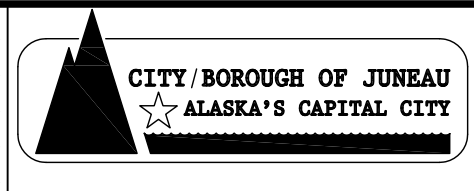


NOTE:
OWNER WILL TRENCH FOR NEW CONDUIT.
PROVIDE MINIMUM OF 72 HOURS NOTICE
OF WHEN TRENCH IS TO BE DUG.
CONTRACTOR WILL BACKFILL TRENCH.

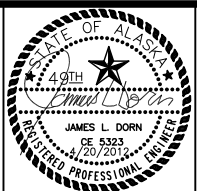


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**EAST VALLEY RESERVOIR EXTERIOR
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**LEMON CREEK RESERVOIR
SITE PLAN**

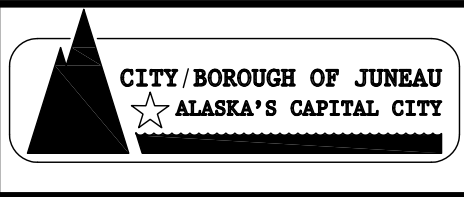
DRAWING
C-2
SHEET NO.
5 of 8



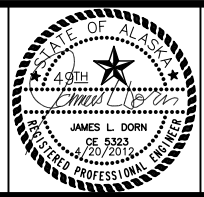
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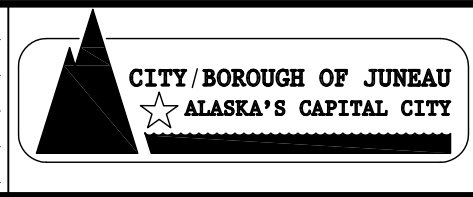
LEMON CREEK RESERVOIR
 INTERIOR PHOTOS

DRAWING
 P-1
 SHEET NO.
 6 of 8



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**LEMON CREEK RESERVOIR
INTERIOR PHOTOS**

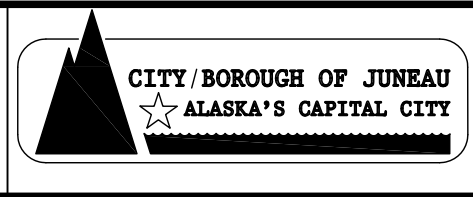
DRAWING
P-2
SHEET NO.
7 of 8



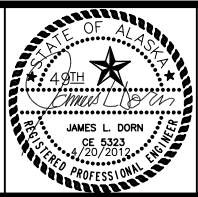
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**EAST VALLEY RESERVOIR
 EXTERIOR PHOTOS**

DRAWING
P-3
 SHEET NO.
8 of 8