GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS PRIOR TO START OF CONSTRUCTION.

2. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

3. THE CONTRACTOR SHALL NOT PROCEED WITH CONSTRUCTION AS SHOWN ON THE PLANS UNLESS IT IS OBVIOUS THAT FIELD CONDITIONS ARE DIFFERENT THAN SHOWN IN THE DESIGN, SUCH CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IN THE EVENT THE CONTRACTOR DOES NOT NOTIFY THE ENGINEER, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY AND EXPENSE FOR ANY NEEDED REVISIONS. ADDITIONALLY, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY OMISSIONS THAT MAY BE NECESSARY TO COMPLETE CONSTRUCTION.

4. ALL FEATURES SHALL BE CONSTRUCTED IN MATERIALS, CONFORMITY TO THE DRAWINGS. ANY VARIATION FROM THE APPROVED DESIGN SHALL BE MADE ONLY AFTER DOCUMENTED APPROVAL FROM THE ENGINEER.

5. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL CLEAN AND PICK UP THE WORK AREA. AT NO TIME SHALL THE WORK BE LEFT IN A MANNER THAT COULD ENDANGER WORKERS, LIVESTOCK, WILDLIFE OR THE PUBLIC.

6. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO PROJECT PLANS AS AMENDED AND REVISED BY THE ENGINEER, ALL DETAILS SHOULD BE CONSIDERED APPROXIMATE OF ACTUAL CONDITIONS, AND MAY BE CHANGED TO BETTER FIT THE ACTUAL CONDITIONS UPON THE DIRECTION BY THE ENGINEER.

7. THE ENGINEER HAS COMPLETED THE DESIGN FOR THE RESERVOIR SO THAT EXISTING SITE FEATURES ARE MINIMALLY DISTURBED. IN CONSIDERATION OF NOTE 6 ON THIS SHEET, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF EXCESSIVELY DISTURBED OR DESTROYED EXISTING AND ESTABLISHED VEGETATION. THE CONTRACTOR SHALL ALSO APPLY WORKING METHODS OF CONSTRUCTION SO THAT THE EXISTING SITE FEATURES ARE MINIMALLY DISTURBED AND THE SITE MAINTAINS THE MATURE LOOK OF THE EXISTING SITE.

8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SAFE WORKING CONDITIONS IN CONFORMANCE WITH OSHA REQUIREMENTS. THE CONTRACTOR HAS COMPLETED A DESIGN THAT RESULTS IN THE SAVINGS OF COSTS AND TIME. THE CONTRACTOR SHALL NOTIFY AND WORK WITH THE OWNER AND ENGINEER IN THE EVENT THERE IS CONFLICT BETWEEN MEETING THESE REQUIREMENTS AND THE REQUIREMENTS OF NOTES 7, 11 AND 13 ON THIS SHEET, TO ENSURE A SAFE WORKING ENVIRONMENT DURING CONSTRUCTION.

9. IN EXECUTION OF CONSTRUCTION, CONTRACTOR AND ANY SUBCONTRACTORS SHALL BE OBLIGE IN MAINTAINING ESTABLISHED VEGETATION AT THE SITE AND SHALL NOT EXCAVATE CLEAR, GRAVE OR OTHERWISE DISTURB AREAS THAT ARE NOT THE IMMEDIATE FOCUS OF THIS CONSTRUCTION PLAN. CONTRACTOR SHALL BE RESPONSIBLE FOR RECLAMATION OF ANY AREAS DESIGNED BY OWNER AND/OR ENGINEER TO BE EXCESSIVELY DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION.

10. A LIQUID SUBSURFACE SOD INVESTIGATION HAS BEEN CONDUCTED (SEE NOTE 11), BUT IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM CONDITIONS PRIOR TO CONSTRUCTION.

11. THE CONTRACTOR SHALL IN NO WAY DISTURB OR ALTER ANY WATER COURSE ON OR ADJOINING THE JOB SITE (EXCEPT AS NOTED IN THE DRAWINGS), THE CONTRACTOR SHALL IMMEDIATELY REPORT ANY UNAUTHORIZED DISTURBANCE OR ALTERATION OF ANY WATER COURSE TO THE CORONADO SOIL AND WATER CONSERVATION DISTRICT.

12. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONDITION OF ALL ACCESS ROADS DURING CONSTRUCTION AND ANY DAMAGE MUST BE REPAIRED WHEN CONSTRUCTION IS COMPLETED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CLIENT.

13. THE CONTRACTOR SHALL NOT ALLOW ANY LIQUID, CONSTRUCTION DEBRIS, OR POLLUTANTS TO ENTER ANY WATER COURSE ON THE JOB SITE.

14. WILDLIFE, INCLUDING BLACK BEAR (ESPECIALLY DURING THE FALL MONTHS) AND RATTLE SNAKES, ARE KNOWN TO FREQUENT THE SITE, THE CONTRACTOR IS RESPONSIBLE FOR ALL WORKER SAFETY AT THE SITE.

15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE FOR DIVERSION OF SPRING FLOW AROUND THE CONSTRUCTION AREAS AS REQUIRED UNTIL CONSTRUCTION IS COMPLETED AND THE RESERVOIR IS FUNCTIONAL. IN CONSIDERATION OF NOTE 11 AND 13 ON THIS SHEET, THE CONTRACTOR SHALL WORK WITH THE OWNER AND ENGINEER TO DETERMINE THE MINIMUM DISTURBANCE OF THE EXISTING WATER COURSES AND IMPROVE DEER AND RATTLE SNAKE MEASURES. ANY WATER DIVERGED FOR CONSTRUCTION MUST CO-MITTEE THE CHANNEL, Dewatering THE CONSTRUCTION AREA IN ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTOR SHALL SUM IT TO ENGINEER FOR APPROVAL, A SHOP DRAWING SEPARATE PLAN TO DIVERGE SPRING FLOW AROUND THE CONSTRUCTION AREA.

16. CONTRACTOR SHALL FOLLOW SPECIFICATIONS FOR EARTHWORK AND NATURAL RESOURCES CONSERVATION PRACTICE CONSTRUCTION SPECIFICATIONS. POND SEALING ON UNDERS - FLEXIBLE MEMBRANE.

17. PLANS PREPARED ASSUMING INTERA INCORPORATED MAINTAINS ROLE AS ENGINEER DURING CONSTRUCTION.

18. PLANS HAVE BEEN PREPARED IN CONFORMANCE WITH NRCS STANDARDS AND SPECIFICATIONS.

19. CONTRACTOR SHALL MAINTAIN RED-LINE DRAWINGS OF CHANGES AND AS BUILT CONDITIONS AND SHALL SUMMIT TO ENGINEER AT CLOSING OF CONSTRUCTION.

20. PLANS PREPARED ASSUMING INTERA INCORPORATED MAINTAINS ROLE AS ENGINEER DURING CONSTRUCTION.

21. PLANS HAVE BEEN PREPARED IN CONFORMANCE WITH NRCS STANDARDS AND SPECIFICATIONS.

22. SPECIFICATIONS CONTRACTOR SHALL FOLLOW INTERA SPECIFICATIONS FOR EARTHWORK AND NATURAL RESOURCES CONSERVATION PRACTICE CONSTRUCTION SPECIFICATION - POND SEALING ON UNDERS - FLEXIBLE MEMBRANE.

23. CODE 373 - DUST CONTROL ON UPLIVED ROADS AND SURFACES.

24. CODE 374 - DIRT - DIRT CHANNEL.

25. CODE 375 - DIRT - DIRT CHANNEL.

26. CODE 376 - STRUCTURE FOR WATER CONTROL.

27. CODE 377 - STRUCTURE FOR WATER CONTROL - CONCRETE.

28. CODE 378 - STRUCTURE FOR WATER CONTROL - CONCRETE.

29. CODE 379 - STRUCTURE FOR WATER CONTROL - GATES.

30. NRCS SPECIFICATIONS FOR NEW MEXICO MARY O'BAN AT BEXAR.SGNO AND SELECTING SANTA FE COUNTY.
EXISTING 8-INCH STEEL OUTFLOW PIPE AND ROCK WALL. TOP = 6498.04 FT AMSL INV = 6498.37 FT AMSL TO BE LEFT IN PLACE.

ROCK WALL TO BE REMOVED.

OUTFLOW PIPE LOCATION (BURIED) ESTIMATED AT 6503.46 FT AMSL 1.5-2 FT BGS.

EXISTING 8-INCH STEEL OUTFLOW PIPE AND ROCK WALL. TOP = 6499.04 FT AMSL INV = 6498.37 FT AMSL TO BE LEFT IN PLACE.

EXISTING 8-INCH STEEL OUTFLOW PIPE AND ROCK WALL. TOP = 6499.04 FT AMSL INV = 6498.37 FT AMSL TO BE LEFT IN PLACE.

18-INCH CULVERT UNDER ROADWAY TO BE REMOVED.

LEGEND:
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
PHOTOGRAPH IDENTIFICATION NUMBER (SEE SHEET 1A/18) 18
FLOW LINE
SOIL SAMPLE LOCATION

PLACITAS ACEQUIAS RESERVOIR IMPROVEMENTS

EXISTING SITE CONDITIONS

LAS HUERTAS RESERVOIR LH-C101
1. RESERVOIR, LOOKING NORTH.
2. CULVERT UNDER ROADWAY TO RESERVOIR.
3. CULVERT UNDER ROADWAY TO RESERVOIR.
4. RESERVOIR BYPASS TRENCH, LOOKING NORTH.
5. RESERVOIR BYPASS TRENCH, LOOKING NORTH.
6. RESERVOIR, LOOKING NORTHEAST.
7. RESERVOIR, LOOKING EAST.
8. RESERVOIR, LOOKING SOUTHEAST.
9. RESERVOIR, LOOKING SOUTH.
10. RESERVOIR OUTLET DAM, OUTLET PIPE, AND VALVE.
11. RESERVOIR, LOOKING SOUTH.
12. RESERVOIR, LOOKING NORTH.
EXISTING GRAVEL ROADWAY

6000 UPTOWN BLVD, SUITE 220 ALBUQUERQUE, NM 87110 (505) 246-1600

PROJECT NO: CSWCD.C001.PLAC
SHEET NO:

DESIGN ENGINEER SEAL
SURVEY INFORMATION / BENCH MARKS
PLACITAS ACEQUIAS RESERVOIR IMPROVEMENTS
REVISIONS
DATE
NO.
REMARKS
BY
CHECKED BY:
DESIGNED BY:
DATE:
DRAWN BY:
DATE:

AEA/JPJ
EJS/LEB/AKA
LMC/JPJ/AKA
4/16/2015
4/16/2015
7/13/2017

SURVEY INFORMATION COLLECTED BY WAYJOHN SURVEYING, INCORPORATED ON ONE OR MORE OF THE FOLLOWING DATES:
- MARCH 13, 26-27, 2014
- MAY 14, 2014
- OCTOBER 15, 2015

3/23/17
001
NRCS COMMENT UPDATES

AKA

IMPROVED SITE PLAN
LAS HUERTAS RESERVOIR LH-C103

MAXIMUM OPERATIONAL WATERLINE (ELEV 6513)
NO VALVE ON SPILLWAY
NEW 18-INCH CULVERT UNDER ROADWAY (15 FT)
REPLACE OUTFLOW SERVICE DRAIN VALVE
LINER PENETRATION (SEE DETAIL F, SHEET LH-C109)
ANCHOR TRENCH LOCATION AND LIMITS OF RESERVOIR LINER
EARTHWORK LIMITS TO EXISTING GRAVEL ROADWAY
OUTFLOW
INFLOW
NEW HDPE OUTFLOW SERVICE DRAIN TO BE INSTALLED INSIDE OF EXISTING STEEL OUTFLOW SERVICE DRAIN
MATERIALS OPERATIONAL WATERLINE (ELEV 6513)
PATH AROUND PERIMETER OF RESERVOIR TO SLOPE AWAY FROM RESERVOIR AT 2% GRADE WITH LOOSE-LAID RUNON BERM AROUND UPHILL SIDE.
TRASH RAKE INLET WITH VERTICAL LINER PENETRATION
CONCRETE SPLITTER CHANNEL
INSTALL 60-MIL HDPE LINER ON BOTTOM AND SIDES OF RESERVOIR WITH 16 OZ GEOTEXTILE UNDERNEATH (2) PLACE 2" ROUND ROCK ON LINED RESERVOIR BOTTOM AND 2" ANGULAR ROCK ON LINED RESERVOIR SIDES FOR LINER BALLAST AGAINST WIND LIFT. SEE DETAIL ON SHEET LH-C107.
GENERAL NOTES:
1. PLANS HAVE BEEN PREPARED IN CONFORMANCE WITH NRCS STANDARDS AND SPECIFICATIONS
2. SEE SHEET LH-C104 FOR PIPING IMPROVEMENT CALLOUTS

KEYED NOTES:
1. CONTRACTOR SHALL SUBMIT LINER PANEL LAYOUT PLAN TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION
2. INSTALL ONE YD2 HDPE DURA-FLUX GALVANIZED GALVANIZED LINER AND SURROUND WITH BALLAST STONES, INSTALL THE CENTER OF THE MATTRESS UNDER THE BLIND FLANGE ON THE INLET PIPE. RESTRAIN UNPERFORATED SECTION OF INLET PIPE TO GALVANIZED MATTRESS WITH DOUBLE STEEL BANDS SO THAT THE PIPE CAN MOC ABD AMBUT NOT LATERALLY.
3. INSTALL FIBERGLASS REFLECTIVE CULVERT DEFLUCTORS ON BOTH SIDES OF ROADWAY.
GENERAL NOTE:

1. CONTRACTOR SHALL FOLLOW INTERA "SPECIFICATION FOR EARTHWORK" FOR THIS PROJECT UNLESS AS SPECIFIED DIFFERENTLY ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.

KEYED NOTES:

1. ROUND RIVER ROCK TO BE PLACED 4" THICK ON LABER RESERVOIR BOTTOM AS BALLAST.

2. ANGULAR ROCK TO BE PLACED 4" THICK ON SLOPES OF LABER RESERVOIR AS BALLAST.

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**BASE GRADING PLAN**

**LAS HUERTAS RESERVOIR**

**LH-C105**

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**EARTHWORK LIMITS**

TIE INTO EXISTING GRADE

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**SURVEY INFORMATION / BENCHMARKS**

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**PLACITAS ACEQUIAS**

RESERVOIR IMPROVEMENTS

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**DRAWN BY:**

AEA/JPJ

EJS/LEB/AKA

LMC/JPJ/AKA

4/16/2015

4/16/2015

7/13/2017

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**SURVEY INFORMATION COLLECTED BY**

WAYJOHN SURVEYING, INCORPORATED

ON ONE OR MORE OF THE FOLLOWING DATES:

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**BASE GRADING PLAN**

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**RESERVOIR IMPROVEMENTS**

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**LAS HUERTAS RESERVOIR**

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**CONTACT INFORMATION**

6000 UPTOWN BLVD, SUITE 220 ALBUQUERQUE, NM 87110 (505) 246-1600

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**ITEM**

**QUANTITY**

**UNIT**

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**Surface Area**

22,550

square feet

---

**Reservoir Bottom**

9,300

square feet

---

**Side Slope Surface Area**

13,250

square feet

---

**Existing Reservoir Capacity**

632,000

gallons

---

**Design Reservoir Capacity**

631,000

gallons

---

**Reservoir Capacity**

1.9

acre-feet

---

**Total Cut Volume (bank)**

468

cubic yards

---

**Total Fill Volume (bank)**

417

cubic yards

---

**Net Cut/Fill Volume (bank)**

11 (cut)
cubic yards

---

**Infill Round Rock**

105
cubic yards

---

**Infill Angular Rock**

176
cubic yards

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**Anchor Trench Length**

145
feet

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**Note:** Contractor is responsible for establishing control points as needed for construction.

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**Legend:**

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**FINAL SITE GRADE MAJOR CONTOUR**

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**FINAL SITE GRADE MINOR CONTOUR**

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**BASE GRADING PLAN**

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**RESERVOIR IMPROVEMENTS**

---

**LAS HUERTAS RESERVOIR**

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