

Appendix A

Construction Drawings

INDEX OF DRAWINGS

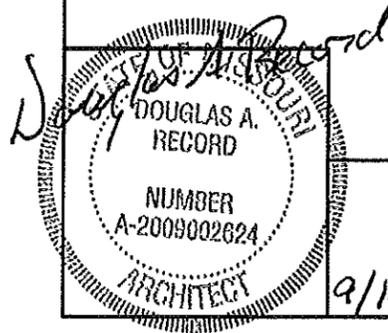
- 1 - 2 SITE PLAN EAST BOUND
- 2 - 2 CROSS SECTIONS

GENERAL CONDITIONS

1. THESE DRAWINGS ARE PROVIDED FOR PRICING AND GENERAL CONSTRUCTION. CONTRACTORS SHALL VERIFY EXISTING CONDITIONS AT TIME OF BIDDING AND NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY WHEN DISCREPANCIES ARE DISCOVERED.
2. ALL CONSTRUCTION DEBRIS MUST BE DISPOSED OF BY THIS CONTRACTOR.
3. ANY PERMITS REQUIRED TO START AND COMPLETE THIS PROJECT SHALL BE OBTAINED AND PAID FOR BY THIS CONTRACTOR.
4. ALL DISCHARGES TO WATERS OF THE STATE MUST MEET THE APPLICABLE REQUIREMENTS OF THE MISSOURI STATE OPERATING PERMITS MADE PART OF THESE BIDDING DOCUMENTS. ALL TESTING AND SAMPLING REQUIRED BY EXISTING PERMITS AND THE LAGOON CLOSURE PLAN SHALL BE PERFORMED BY MODOC FORCES.
5. ALL LAND DISTURBANCE ACTIVITIES ARE AUTHORIZED BY, AND THEREFORE MUST COMPLY WITH, CURRENT MODOC STATE OPERATING PERMITS AND SHPPP. ALL TEMPORARY AND PERMANENT BMPs FOR EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED, MAINTAINED AND INSPECTED UNTIL THE PROJECT ACHIEVES FINAL STABILIZATION IN ACCORDANCE WITH PERMIT. UPON ACHIEVING FINAL STABILIZATION, ALL TEMPORARY BMPs SHALL BE REMOVED AND, IF NECESSARY, THOSE AREAS APPROPRIATELY SHAPED AND PERMANENTLY STABILIZED. PERIMETER AND OUTFALL BMPs SHALL BE INSTALLED PRIOR TO INITIATING LAND DISTURBANCE ACTIVITIES.
6. LAND DISTURBANCE ACTIVITIES OF ONE ACRE OR MORE REQUIRE A MISSOURI STATE OPERATING PERMIT TO DISCHARGE STORM WATER (10 CSR 20-8.200). THE PERMIT REQUIRES BEST MANAGEMENT PRACTICES SUFFICIENT TO CONTROL RUNOFF AND SEDIMENTATION TO PROTECT WATERS OF THE STATE. MODOC'S PERMIT #MO-R106007 COVERS THIS LAND DISTURBANCE ACTIVITY STATEWIDE.
7. ALL EXISTING SURFACES INDICATED TO REMAIN AS EXISTING FINISHED SURFACES OR SUBSTRATES OF NEW FINISHES ARE TO BE REPLACED TO ORIGINAL CONDITION IF DAMAGED BY WORK PERFORMED UNDER THIS CONTRACT, AT NO ADDITIONAL COST TO OWNER.
8. SEED AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION, PER MODOC SPECIFICATIONS IMMEDIATELY AFTER FINAL GRADING.
9. ALL EXISTING UTILITIES INDICATED ON THE DRAWINGS ARE ACCORDING TO THE BEST INFORMATION AVAILABLE; HOWEVER, ALL UTILITIES ACTUALLY EXISTING MAY NOT BE SHOWN. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR TO OBTAIN THE LOCATION OF SAME SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
10. REMOVAL OF ANY SEWER LINE, SERVICE LINE, OR PUMPS OR FOUNDATIONS THEREOF REQUIRED FOR THE CLOSURE OF THE LAGOON CELLS FOR THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AT HIS EXPENSE.
11. WHEN FINAL CLOSURE IS COMPLETE, CONTRACTOR SHALL NOTIFY MDMR, IN WRITING, THAT THE LAGOONS HAVE BEEN CLOSED IN ACCORDANCE WITH THE APPROVED PLAN.

MISSOURI DEPARTMENT
OF TRANSPORTATION

WASTE WATER SEWER LAGOON CLOSURE
at
I-70 Rest Areas
CENTRAL DISTRICT - Boonville, Missouri
Cooper County

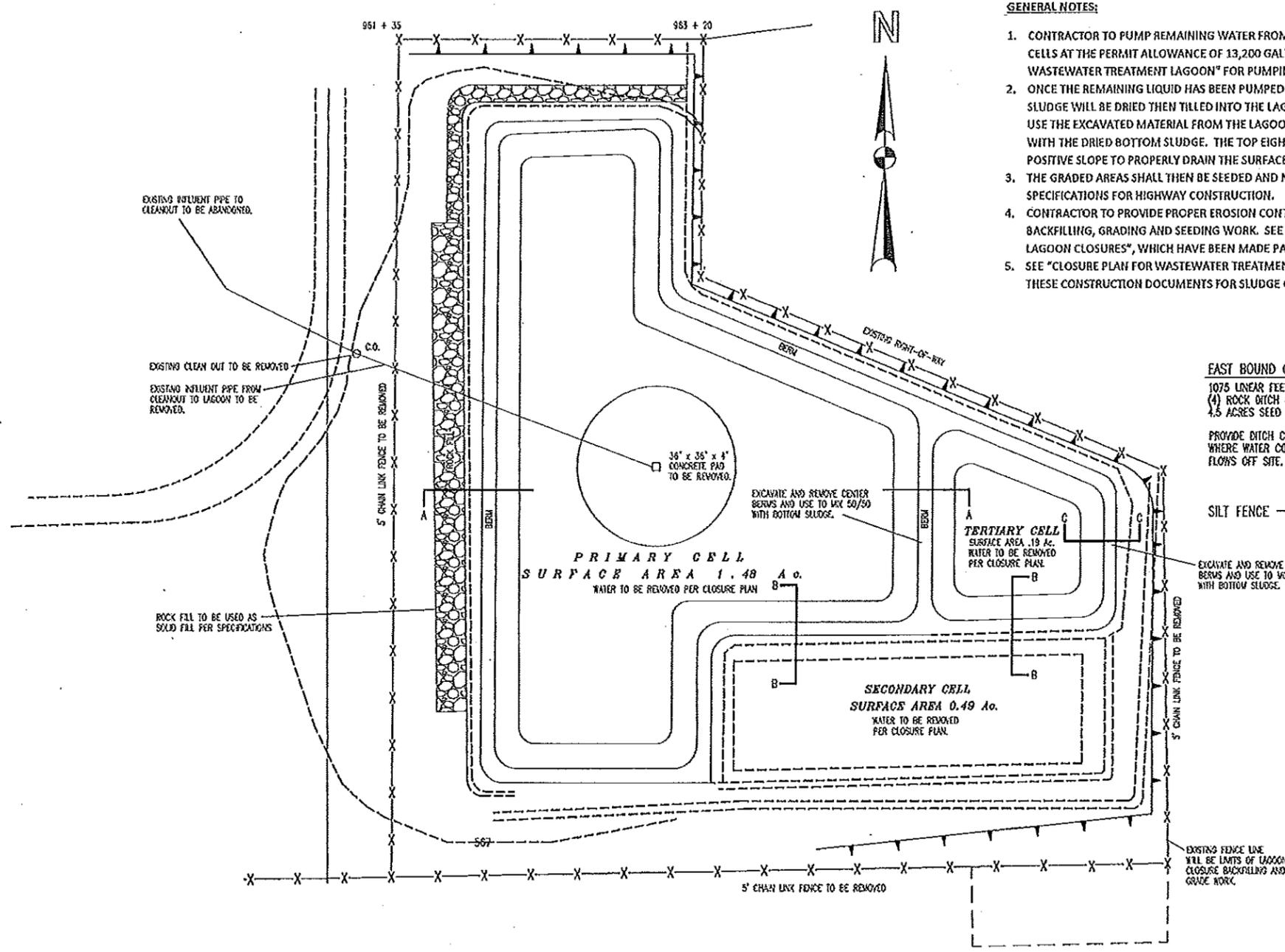


COVER SHEET

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

BOONVILLE LAGOON CLOSING
Central District - Cooper County

DRAWN BY: LARRY CARTER
CHECKED BY: DOUG RECORD
DATE: 9-8-12
Sheet
- OF -



- GENERAL NOTES:**
1. CONTRACTOR TO PUMP REMAINING WATER FROM ALL LAGOON CELLS. CONTRACTOR MAY PUMP CELLS AT THE PERMIT ALLOWANCE OF 13,200 GALLONS PER DAY. SEE "CLOSURE PLAN FOR WASTEWATER TREATMENT LAGOON" FOR PUMPING INSTRUCTIONS.
 2. ONCE THE REMAINING LIQUID HAS BEEN PUMPED OUT BY THE CONTRACTOR, THE REMAINING SLUDGE WILL BE DRIED THEN TILLED INTO THE LAGOON CELL BOTTOM. THE CONTRACTOR WILL USE THE EXCAVATED MATERIAL FROM THE LAGOON BERMS AND EMBANKMENTS TO MIX 50/50 WITH THE DRIED BOTTOM SLUDGE. THE TOP EIGHT TO TEN INCHES SHALL BE GRADED WITH POSITIVE SLOPE TO PROPERLY DRAIN THE SURFACE THROUGH THE EXCAVATED OPENING.
 3. THE GRADED AREAS SHALL THEN BE SEEDED AND MULCHED PER MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
 4. CONTRACTOR TO PROVIDE PROPER EROSION CONTROL MEASURES USING BMP METHODS DURING BACKFILLING, GRADING AND SEEDING WORK. SEE "EROSION CONTROL INSTRUCTIONS FOR LAGOON CLOSURES", WHICH HAVE BEEN MADE PART OF THESE CONSTRUCTION DOCUMENTS.
 5. SEE "CLOSURE PLAN FOR WASTEWATER TREATMENT LAGOON", WHICH HAVE BEEN MADE PART OF THESE CONSTRUCTION DOCUMENTS FOR SLUDGE QUANTITIES.

EAST BOUND QUANTITIES
 1075 LINEAR FEET Silt FENCE
 (4) ROCK DITCH CHECKS
 4.5 ACRES SEED AND MULCH

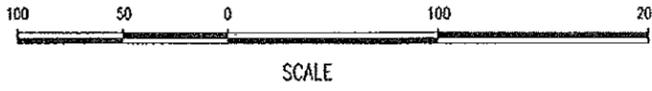
PROVIDE DITCH CHECKS AS NEEDED WHERE WATER CONCENTRATES AND FLOWS OFF SITE.



EXCAVATE AND REMOVE PERIMETER BERMS AND USE TO MIX 50/50 WITH BOTTOM SLUDGE.

EXISTING FENCE LINE WILL BE PARTS OF LAGOON CLOSURE BACKFILLING AND GRADE WORK.

A
1
SITE PLAN EAST BOUND



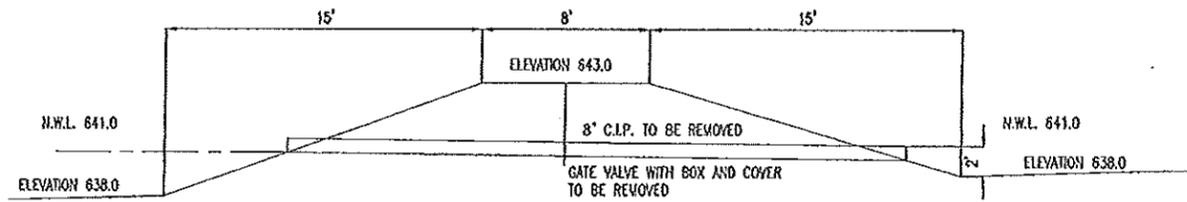
STATE OF MISSOURI
 DOUGLAS A. RECORD
 NUMBER A-2009002624
 ARCHITECT
 9/14/12

SITE PLAN

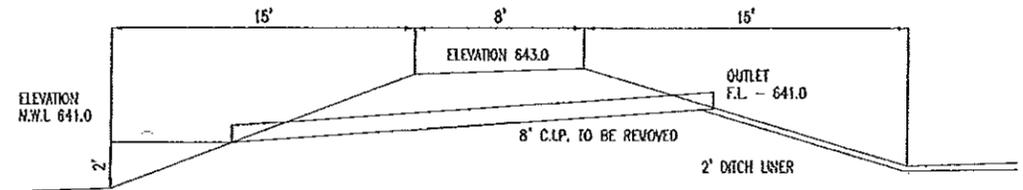
MISSOURI DEPARTMENT OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

BOONVILLE LAGOON CLOSING
 Central District - Cooper County

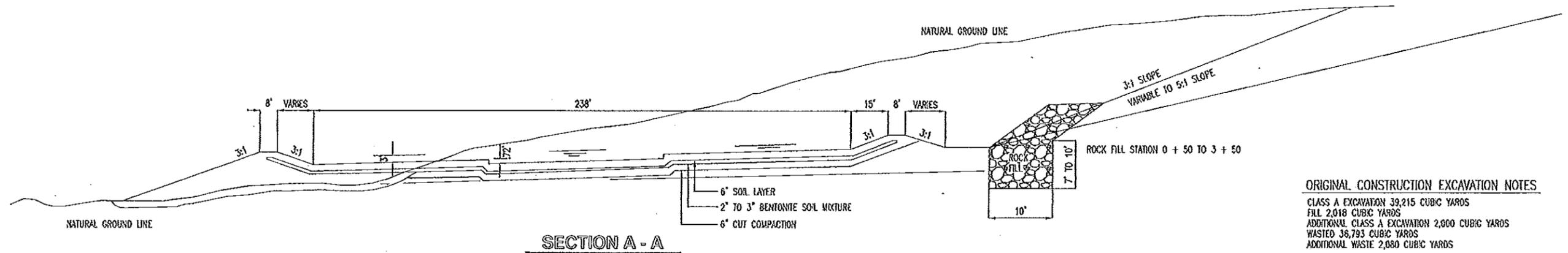
DESIGN BY: LARRY CRYER
 CHECKED BY: DOUG RECORD
 DATE: 9-6-12
 Sheet 1 of 2



SECTION B - B



SECTION C - C



SECTION A - A

ORIGINAL CONSTRUCTION EXCAVATION NOTES
 CLASS A EXCAVATION 39,215 CUBIC YARDS
 FILL 2,018 CUBIC YARDS
 ADDITIONAL CLASS A EXCAVATION 2,000 CUBIC YARDS
 WASTED 38,793 CUBIC YARDS
 ADDITIONAL WASTE 2,080 CUBIC YARDS

Douglas A. Record
 MISSOURI ARCHITECT
 DOUGLAS A. RECORD
 NUMBER A-2009002624
 9/14/12

CROSS SECTIONS

MISSOURI DEPARTMENT OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

BOONVILLE LAAGOON CLOSING
 Central District - Cooper County

DRAWN BY: LARRY CARTER
CHECKED BY: DOUG RECORD
DATE: 9-5-12
Sheet 2 of 2