WEST LAKE DAM
DAM MAINTENANCE AND REHABILITATION
CONSTRUCTION PLANS
DAM ID: 050336, Water Division 1, Water District 5
BOULDER COUNTY
JULY, 2018

OWNER: BOULDER COUNTY PARKS AND OPEN SPACE DEPARTMENT
5201 ST. VRAIN ROAD
LONGMONT, CO 80503
(303) 413-7077

ENGINEER: APPLIGATE GROUP, INC.
1480 W 121ST AVE., SUITE 100
DENVER, CO 80234
(303) 462-6611

VICINITY MAP
SCALE 1" = 2000'  

I hereby certify that these plans for the rehabilitation of West Lake Dam
Rehabilitation were prepared by me or under my direct supervision for
Boulder County Parks and Open Space.

Steven A. Smith, P.E.

Approved on the ____ day of August ______ 2018

Kevin G. Rein
State Engineer
Wisconsin Dnr-DEQ
Chief Dam Safety Branch
Date: P.E. No. 43364

These plans represent the AS-CONSTRUCTED conditions of West Lake Dam
Rehabilitation to the best of our knowledge and judgment, based in part on
information furnished by others, as of the ______ day of ______

(Steven A. Smith, P.E.) (Signature)

NOTE: SHEET Index LOCATED ON SHEET 2.
WEST LAKE DAM REHABILITATION
BOULDER COUNTY
SPILLWAY PLAN AND PROFILE
CONCRETE CUTOFF WALL
WEST LAKE DAM
BOULDER COUNTY
9 FOOTHILLS OUTLET DITCH PLAN
AND PROFILE
SIPHON DRAIN LINE FILTER DIAPHRAGM DETAIL
OVERFLOW SPILLWAY CHANNEL SECTION
SCALE 1" = 1'-0"
CONCRETE LINED TRAPEZOIDAL CHANNEL

STILLING WELL DETAILS

OUTLET PIPE HEADWALL

OUTLET PIPE CONCRETE ENCASEMENT

FLUME DETAIL

SEIPHON DRAIN PIPE ENCASEMENT

MINIMUM EXCAVATION SECTION FOR OUTLET PIPE
WATER RESOURCE ADVISORS FOR THE WEST APPLEGATE GROUP, INC.

LAKE 4 BORROW AREA

LAKE 4 HAUL ROUTE

LAKE 4 BORROW AREA

WEST LAKE DAM MAINTENANCE AND REHABILITATION PROJECT LOCATION

SWEDE LAKE HAUL ROUTE

SWEDE LAKE BORROW AREA

BORROW MATERIAL SOURCES AND HAUL ROUTES

Filing No. C-2068

Job No: 21

Date: Sheet: Of:

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WEST LAKE DAM REHABILITATION

BOULDER COUNTY

21
NORMAL WATER SURFACE
ELEVATION 5152

6' DEEP SHELF (ELEV. 5148.0)
ACTUAL TOPOGRAPHY TO VARY WITH INPUT FROM ENGINEER DURING CONSTRUCTION

APPROX. 4' DEPTH WITH FIELD FIT VARIATION

EXISTING BATHYMETRY

PROPOSED BATHYMETRY

60' WIDE AT APPROX. ELEV. 5150.0
NOTE: ACTUAL CONSTRUCTED ELEVATION WILL VARY FROM 18-in TO 2-ft

OUTLET GATE INVERT ELEV. 5145.0'
6' DEEP SHELF (ELEV. 5146.0)
ACTUAL TOPOGRAPHY TO VARY WITH INPUT FROM ENGINEER DURING CONSTRUCTION

Applegate Group, Inc.
Date:  
Filing No. C-2068

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