LEGEND

BOUNDARIES
- State or territorial
- County or equivalent
- Incorporated city or equivalent
- Federally administered area

BUILDINGS AND RELATED STRUCTURES
- Building
- Well (other than water) — Well Name
- Airport, paved landing strip, runway, taxiway, or apron
- Unpaved landing strip
- Tanks
- Located or landmark object — Feature Label
- Retaining wall, jetty, or warf
- Fence

BASELINE CONTOURS
- Index — 5050
- Approximate of indefinite
- Intermediate — 5051
- Approximate of indefinite
- Supplementary

LAND SURVEYS
- Public Land Survey System
- Range or Township line
- Range or Township labels — R1E T2N
- Section line
- Section numbers — 1-36
- Mining claim or property boundary
- Mining claim or property monument

BASELINE MINES AND CAVES
- Quarry and open pit mine
- Gravel, sand, clay, or borrow pit
- Mine adit or cave entrance
- Mine shaft
- Prospect
- Mine Dump

ROADS AND RELATED FEATURES
- Highway
- Light duty road, paved
- Light duty road, gravel
- Unimproved road
- Trail
- Road blcd, berm, or barrier
- Gate on road
- Cattle crossing guard
- Railroad

RIVERS, LAKES, SHORELINES, AND CANALS
- Perennial stream/ditch
- Perennial river
- Intermittent stream/ditch
- Intermittent river
- Dam
- Perennial lake/pond
- Intermittent lake/pond
- Dry lake/pond
- Elevated aqueduct, flume, or conduit
- Buried aqueduct, flume, or conduit
- Waterwell — Well Name
- Spring or seep
- Drainage Direction
- Flood Plain

WETLANDS (USFWS National Wetland Inventory)
- Freshwater Emergent

TRANSMISSION LINES AND PIPELINES
- Power transmission line; pole; tower
- Power transmission line, buried
- Telephone/data line, above ground
- Telephone/data line, buried
- Pipeline (non-water), above ground
- Pipeline (non-water), buried

MINING FEATURES
- DRMS Permit Boundary
- 200' Offset of DRMS Permit Boundary
- Fixed Structures
- Mobile Structures
- Mining Phases
- Berm/windrow
- Ground Eng. Zone Extents

POST-MINING CONTOURS
- Index — 5050
- Approximate of indefinite
- Intermediate
- Approximate of indefinite
- Supplementary

Ralston Reservoir

Upper Long Lake Reservoir

A'

A

B

B'

C

C'

D

D'

E

E'

32 33 5 4 8 9

STORMWATER CONTROL BERM
2 FEET TALL
CONTAINS AND REDIRECTS THE
10-YR EVENT (2.04 INCHES OVER 10.31 ACRES)
SOUTH TO THE MAIN QUARRY

UPPER PIT FLOOR ELEVATION: 6150'

UPPER PIT FLOOR IS 40'+ ABOVE THE WATER TUNNEL

WATER TUNNEL TO SUPPLY
THE UPPER LONG LAKE RESERVOIR
6100' ELEV. OUTLET

OLD DISTURBANCE
FULLY REVEGETATED

WATER TUNNEL INLET AT 6115' ELEV.

ROCK BERM STORMWATER
SEDIMENT FILTER
6' TALL
3H:1V SIDESLOPES
SEE MAP C-4 FOR DETAILS

GROUND ENGINEERING
ZONE 5

GROUND ENGINEERING
ZONE 4

SLIDE AREA

OLD STORMWATER POND

2008 REGRADE AREA

COLLECTION DITCH
MAP C-4

2018 SLIDE

Denver Water (2008)

DISCHARGE
OUTFALL

DISTURBANCE
BOUNDARY

APPROX. BACK DRAIN
LOCATION (SEE MAP C-5)

GROUND ENGINEERING
ZONE 3

GRAVEL ROCK
RUNOFF FILTER

TOPSOIL STOCKPILE

SOUTH
POND

2018 SLIDE MATERIAL
EMBANKMENT

DITCH C-1

COLLECTION DITCH
& POND DESIGNS ON
MAP C-4

GROUND ENGINEERING
ZONE 1

GROUND ENGINEERING
ZONE 2

DITCH C-2

EXPECTED PIT BOTTOM ELEVATION: 6000'

ESTIMATE BOUNDARY BETWEEN
BASALT AND UNDERLYING SHALE

WESTERN SLOPES WILL BE MINED TO VARIABLE BENCH HEIGHT AND WIDTH.
SEE MAP C-4 FOR A DESCRIPTION OF THIS VARIABILITY.

STORMWATER
RETENTION BERM
3' TALL
3H:1V SIDESLOPES
MADE OF TOPSOIL/OVERBURDEN

APPROX. EAST EDGE OF STORAGE AREA

PROCESSING EQUIPMENT AND STOCKPILE AREA.
BASALT FINES STOCKPILED HERE.

STORAGE AREA
PRODUCT, OVERBURDEN, TOPSOIL, & EQUIPMENT

SEE MAP C-4 FOR A CONCEPT DRAWING OF THE VARIABLE BENCHES

Ephemeral ditch

Sediment Ponds

Map C-2 Mining Plan
Ralston Quarry
Asphalt Paving Co.

DRMS Permit Number: M-1974-086

Mine Entry Location: Latitude: 39.81222 Longitude: 105.23139
State: CO County: Jefferson Nearest Town: Arvada
Section: 4 Township: 3S Range: 70W PM: 6th
Major Watershed: ----
Map Scale: 1":200'
0 200 400
N

Map Georeferencing Information: Datum: NAD83 Projection: CO Central
Survey Source: Google & Drone Survey Date: 2010 & 2018
Imagery Source: Google & Drone Imagery Date: 08/16/18
Drawn by: BEL Date: 08/25/18
Checked by: BEL Date: ----
Approved by: GL Date: ----

File Name: E:\Work\Dropbox (GLA)\Asphalt Paving Company\Ralston Quarry\AutoCAD\Ralston Quarry 190116.dwg

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