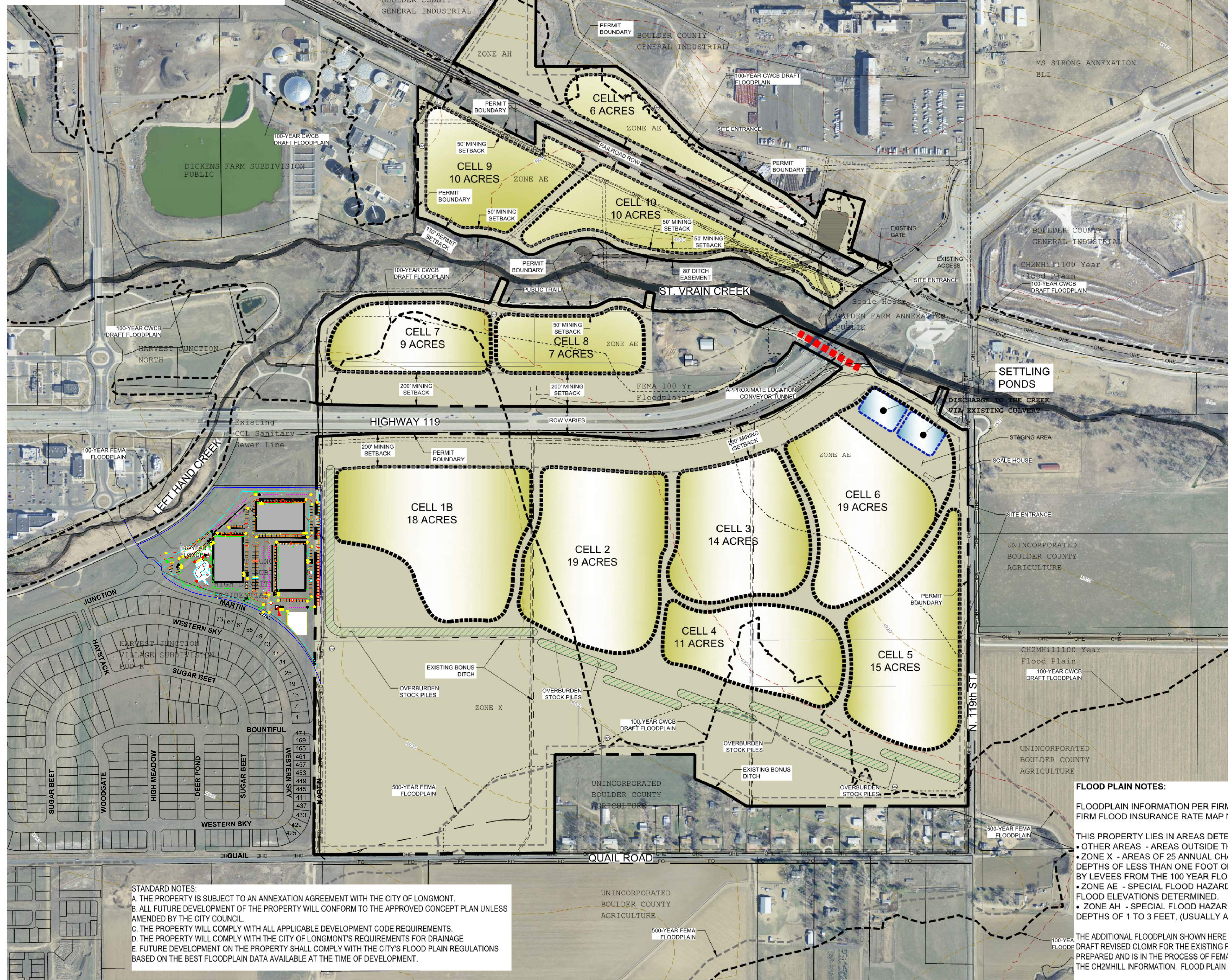


NOTE:

A. WHERE UNDERGROUND ELECTRIC CABLES THAT RUN NEAR THE PROJECT WORK AREA, THEY CANNOT BE DE-ENERGIZED FOR CROSSING PURPOSES. THE CONTRACTOR MUST TAKE ALL PRECAUTION NECESSARY TO PREVENT DAMAGE TO THE CABLES OR INJURY TO THE CONSTRUCTION CREW. SHOULD THE CONTRACTOR DAMAGE THESE FACILITIES, CONTACT LONGMONT POWER & COMMUNICATIONS IMMEDIATELY AT 651-8386. LONGMONT POWER & COMMUNICATIONS WILL REPAIR THE FACILITIES AND BILL THE DEVELOPER FOR ALL ASSOCIATED COSTS.

B. WHERE LONGMONT POWER & COMMUNICATIONS OVERHEAD FACILITIES EXIST IN THE DEVELOPMENT AREA, THE CONTRACTOR MUST KEEP ALL EQUIPMENT OPERATION A MINIMUM OF 10 FEET FROM EXISTING OVERHEAD ELECTRIC LINES. IF THIS IS NOT FEASIBLE, OR CONDITIONS WARRANT ADDITIONAL PROTECTION OR POLE STABILIZATION, THE CONTRACTOR MUST CONTACT THE LPC OPERATIONS CONSTRUCTION COORDINATOR AT 651-8386. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE PROTECTIVE COVERING AND OR POLE STABILIZATION, 48 HOURS IN ADVANCE. SHOULD THE ELECTRIC FACILITIES BE DAMAGED, THE CONTRACTOR MUST CONTACT LPC AT 651-8386. ADDITIONALLY, ALL COSTS ASSOCIATED WITH REPAIRS WILL BE THE RESPONSIBILITY OF THE DEVELOPER.

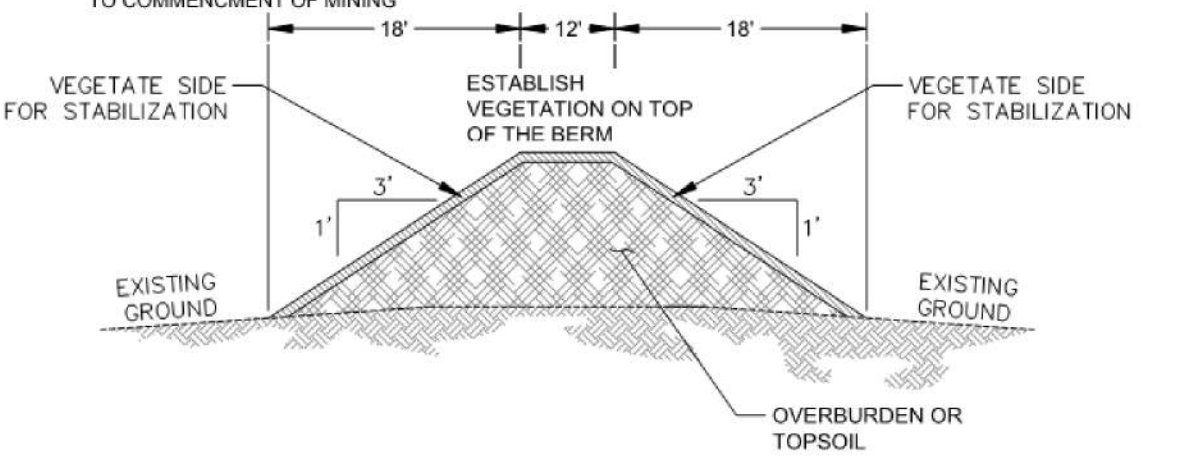


LEGEND:

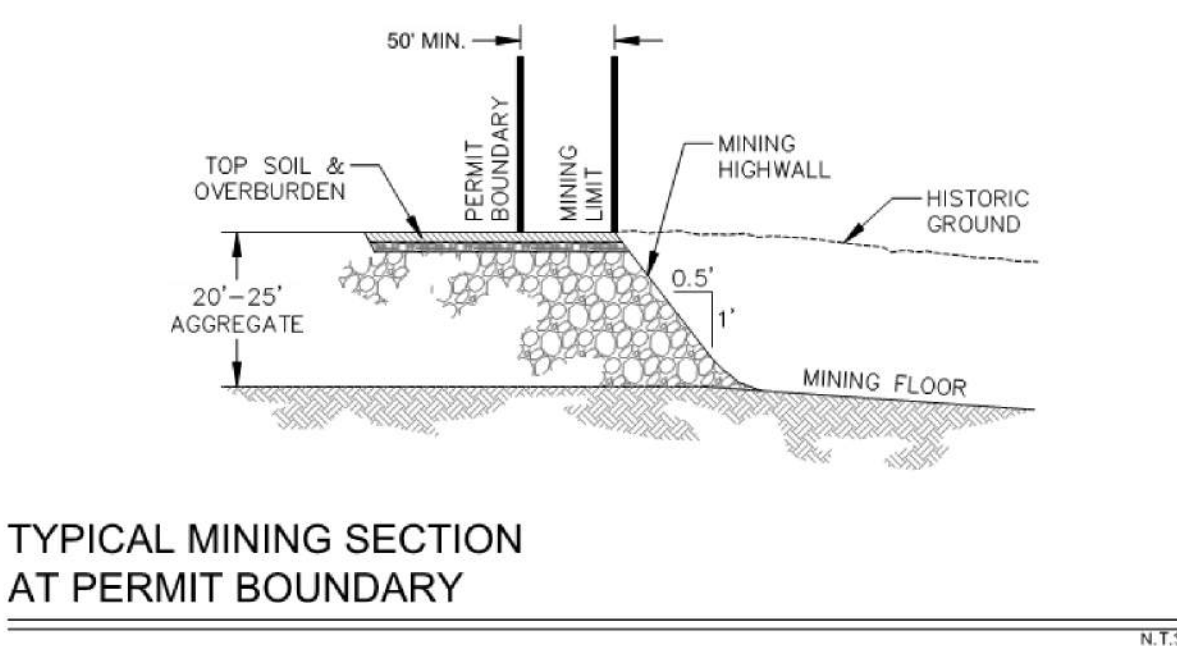
- PERMIT BOUNDARY
- EXISTING PARCELS
- EXISTING DITCH CENTERLINE
- EXISTING 5 FOOT CONTOUR
- EXISTING 25 FOOT CONTOUR
- MONITORING WELL

NOTES:

1. THE PROPOSED IRWINTHOMAS MINE PERMIT AREA IS COMPRISED OF 4 DISTINCT MINING AREAS SEPARATED BY COLORADO HIGHWAY 119, ST. VRAIN CREEK, AND THE BURLINGTON NORTHERN AND SANTA FE (BNSF) RAILROAD. MINING AREA 1 IS LOCATED SOUTH OF HWY 119. MINING AREA 2 IS NORTH OF HWY 119 AND SOUTH OF ST. VRAIN CREEK. MINING AREA 3 IS NORTH OF ST. VRAIN CREEK AND SOUTH OF THE BNSF RAILROAD, AND MINING AREA 4 IS NORTH OF THE RAILROAD.
2. THE PROPOSED PERMIT BOUNDARY ENCOMPASSES APPROXIMATELY 295.6 ACRES WITH ONLY ABOUT 138 ACRES CURRENTLY PLANNED FOR MINING. HOWEVER, THE AFFECTED LAND BOUNDARY ESSENTIALLY FOLLOWS THE PERMIT BOUNDARY TO ALLOW FOR RECLAMATION ACTIVITIES AND FUTURE POTENTIAL MINING OPERATIONS.
3. AREAS NOT DISTURBED BY MINING MAY BE DISTURBED BY ACCESS ROADS, MATERIAL CONVEYING, STOCKPILES, OR OTHER MINING-RELATED ACTIVITIES. THE REMAINING AREA WILL CONSIST OF SETBACKS AND ROAD AND UTILITY RIGHT-OF-WAYS.
4. SETBACKS FROM THE MINE PIT TOP OF SLOPE TO THE PROPOSED PERMIT BOUNDARY OR MAN-MADE STRUCTURES NOT OWNED BY THE APPLICANT WILL BE 50 FEET OR GREATER.
5. ITEMS OWNED BY THE APPLICANT OR PROPERTY OWNER LOCATED WITHIN THE PERMIT AREA SUCH AS UNIMPROVED ROADS, IRRIGATION LATERALS, FENCES, WATER WELLS AND ASSOCIATED PUMPS, AND OTHER STRUCTURES MAY BE REMOVED OR RELOCATED DURING MINING AND RECLAMATION.
6. TEST PITS HAVE VERIFIED THAT COMMERCIAL DEPOSITS OF SAND AND GRAVEL EXIST UP TO 25 FEET BELOW THE SURFACE OF THE GROUND.
7. MINING IS EXPECTED TO ENCOUNTER GROUNDWATER WITHIN FIVE FEET OF THE GROUND SURFACE. THE DEPOSIT WILL BE DRY MINED USING DEWATERING TRENCHES AND PUMPS.
8. DURING MINING ADJACENT TO THE ST. VRAIN CREEK RIPARIAN AREA, PRECAUTIONS WILL BE TAKEN TO NOT DISTURB THE CREEK CHANNEL AND DESIRABLE VEGETATION.
9. A MINE OFFICE/SCALE HOUSE TRAILER WILL BE ESTABLISHED NEAR SITE ENTRANCES BOTH NORTH AND SOUTH OF ST. VRAIN CREEK.
10. BEST MANAGEMENT PRACTICES WILL BE USED TO LIMIT DISCHARGE OF STORMWATER AND SEDIMENT ONTO ADJACENT PROPERTIES AND WATERWAYS.
11. REPLACEMENT AND/OR RELOCATION OF ANY INFRASTRUCTURE LOCATED ON CITY PROPERTY WILL BE COORDINATED WITH THE CITY BEFORE ANY REMOVAL OR RELOCATION.
12. A MINIMUM OF 6" OF TOPSOIL WILL BE USED ON RECLAIMED AREAS.
13. DEWATERING DISCHARGE FOR THE AREA SOUTH OF HWY 119 WILL UTILIZE THE EXISTING CULVERT ADJACENT TO 19TH STREET. DEWATERING DISCHARGE FOR THE AREA BETWEEN HWY 119 AND ST. VRAIN CREEK WILL BE CARRIED UNDER THE GREENWAY TRAIL TO THE CREEK. INSTALLATION OF THE CULVERT WILL BE COORDINATED WITH THE CITY OF LONGMONT. DISCHARGE FROM THE PORTION OF THE SITE NORTH OF ST. VRAIN CREEK WILL UTILIZE AN EXISTING DRAINAGE DITCH ON THE SITE.
14. OPERATOR WILL IMPLEMENT AN INTEGRATED WEED MANAGEMENT PLAN DURING MINING AND RECLAMATION OF THE PROPERTY. THE CITY MAY CONDUCT QUARTERLY INSPECTION OF NOXIOUS WEEDS. INVASIVE TREES SPECIFIED WILL BE IDENTIFIED AND REMOVED TO THE EXTENT POSSIBLE.
15. OPERATOR TO COORDINATE WITH COLORADO PARKS & WILDLIFE PRIOR TO START OF OPERATIONS AT EACH POD TO IDENTIFY ANY NESTING RESTRICTIONS REGARDING RAPTOR NESTS LOCATED IN THE VICINITY OF THE SITE.
16. CITY OF LONGMONT STORMWATER POLLUTION CONTROL PLAN, EROSION CONTROL PLAN, STORMWATER CONSTRUCTION ACTIVITY PERMIT AND FLOOD PLAN DEVELOPMENT PERMIT SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF MINING.



TYPICAL BERMING SECTION N.T.S.



TYPICAL MINING SECTION AT PERMIT BOUNDARY N.T.S.

FLOOD PLAIN NOTES:

FLOODPLAIN INFORMATION PER FIRM FLOOD INSURANCE RATE MAP NO 08013C0287J DATED DECEMBER 18, 2012 AND FIRM FLOOD INSURANCE RATE MAP NO 08013C0289J DATED DECEMBER 18, 2012

THIS PROPERTY LIES IN AREAS DETERMINED TO BE WITHIN

- OTHER AREAS - AREAS OUTSIDE THE 2% ANNUAL CHANCE FLOOD
- ZONE X - AREAS OF 25 ANNUAL CHANCE OF FLOOD OR AREAS WITH 1% ANNUAL CHANCE OF FLOOD WITH AVERAGE DEPTHS OF LESS THAN ONE FOOT OR WITHIN DRAINAGE AREAS LESS THAN ONE SQUARE MILE AND AREAS PROTECTED BY LEVEES FROM THE 100 YEAR FLOOD AND
- ZONE AE - SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL FLOOD CHANCE, BASE FLOOD ELEVATIONS DETERMINED.
- ZONE AH - SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL FLOOD CHANCE, FLOOD DEPTHS OF 1 TO 3 FEET, (USUALLY AREAS OF PONDING) BASE FLOOD ELEVATIONS DETERMINED.

THE ADDITIONAL FLOODPLAIN SHOWN HERE ON IS BASED ON CITY OF LONGMONT, CH2MHILL DRAFT FLOOD PLAIN MAPPING DATED 5/21/15. A DRAFT REVISED CLOMR FOR THE EXISTING FLOODPLAIN CONDITION BASED ON THE CH2MHILL DRAFT FLOOD PLAIN MAPPING DATED 5/21/15 IS PREPARED AND IS IN THE PROCESS OF FEMA APPROVAL. ROCK CREEK SURVEYING LLC ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE CH2MHILL INFORMATION. FLOOD PLAIN INFORMATION IS SUBJECT TO REVISION IF CHANGES OR IMPROVEMENTS OCCUR IN THE FLOODPLAIN.

STANDARD NOTES:

A. THE PROPERTY IS SUBJECT TO AN ANNEXATION AGREEMENT WITH THE CITY OF LONGMONT.

B. ALL FUTURE DEVELOPMENT OF THE PROPERTY WILL CONFORM TO THE APPROVED CONCEPT PLAN UNLESS AMENDED BY THE CITY COUNCIL.

C. THE PROPERTY WILL COMPLY WITH ALL APPLICABLE DEVELOPMENT CODE REQUIREMENTS.

D. THE PROPERTY WILL COMPLY WITH THE CITY OF LONGMONT'S REQUIREMENTS FOR DRAINAGE

E. FUTURE DEVELOPMENT ON THE PROPERTY SHALL COMPLY WITH THE CITY'S FLOOD PLAIN REGULATIONS BASED ON THE BEST FLOODPLAIN DATA AVAILABLE AT THE TIME OF DEVELOPMENT.

Revisions: \_\_\_\_\_

No. \_\_\_\_\_

By: \_\_\_\_\_

Date: \_\_\_\_\_

blueearth solutions

AGGREGATE INDUSTRIES

REGULAR 112 PERMIT APPLICATION

MINING MAP

For Recording 11/26/2018

Date: March, 2016

Job No: 590-008

Drawn: C. Snowdon

Design: B. SCHENDERLEIN

Checked: B. SCHENDERLEIN

Scale: 1" = 300'

Sheet: \_\_\_\_\_

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