

LEGEND

GENERAL TOPOGRAPHIC LEGEND

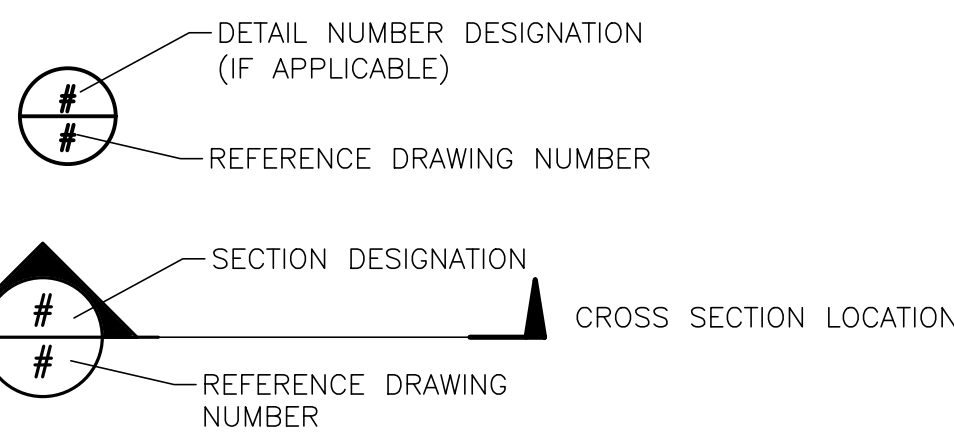
	EXISTING TOPOGRAPHIC MAJOR CONTOUR (25' CONTOUR INTERVAL)
	EXISTING TOPOGRAPHIC MINOR CONTOUR (5' CONTOUR INTERVAL)
	PROPERTY BOUNDARY
	EXISTING PERMIT BOUNDARY
	PROPOSED PERMIT BOUNDARY
	PROPOSED 1000' PERMIT BOUNDARY OFFSET
	EXISTING PUBLIC ROAD
	EXISTING GAS LINE
	EXISTING OVERHEAD ELECTRIC LINE
	PROPOSED OVERHEAD ELECTRIC LINE
	LOCAL GROUNDWATER FLOW DIRECTION
	REGIONAL GROUNDWATER FLOW DIRECTION
	WATERS OF THE UNITED STATES (DELINEATED BY SKELLY & LOY 1/5/2016)
	STREAM
	TREELINE
	PROPOSED GUIDE RAIL
	PROPOSED CONTOURS
	EXISTING OR PREVIOUSLY CONSTRUCTED DITCH
	PROPOSED DITCH
	CUP OPERATIONAL BUFFER
	CUP MAINTAINED BUFFER
	300' DWELLING BARRIER

	WETLANDS (DELINEATED BY SKELLY & LOY 12/16/2015)
	WETLANDS (DELINEATED BY AECOM 1/2011 AND 5/2012)
	LANDUSE - UNMANAGED NATURAL HABITAT
	LANDUSE - RESIDENTIAL
	EXISTING ROAD - 100' BUFFER
	STREAM - 100' BUFFER

	TEST BORINGS
	MONITORING WELL OR PIEZOMETER
	EXISTING PRIVATE WATER SUPPLY WELL
	32-INCH DIAMETER COMPOST FILTER SOCK
	PROPERTY PARCEL ID

DETAILS AND SECTIONS LEGEND

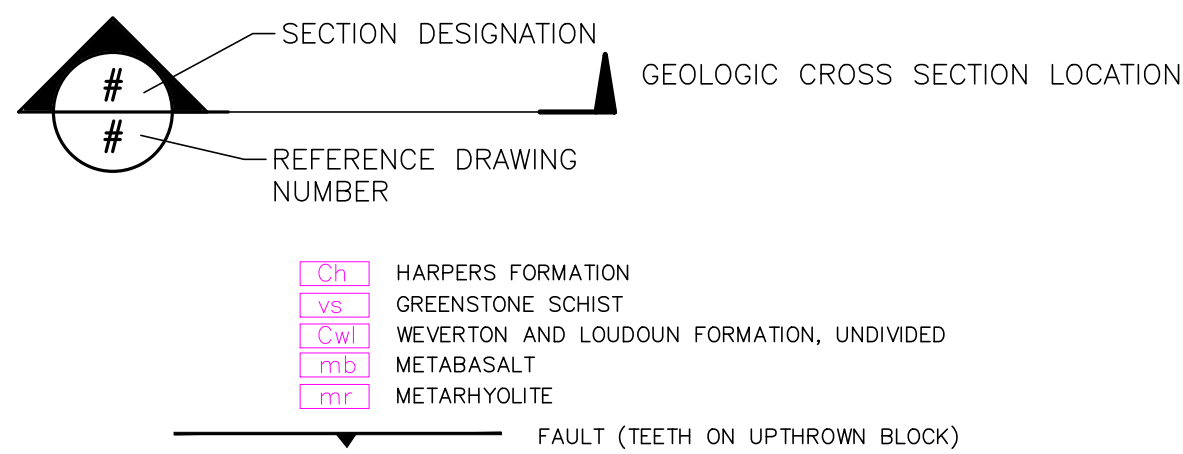
	RIPRAP/AASHTO NO. 57
	AASHTO NO. 8
	CONCRETE
	SAND



WATER SAMPLING LOCATION LEGEND

	BACKGROUND GROUND WATER MONITORING STATION FOR NORTHERN TRACT (MONITORING WELL)
	BACKGROUND AND PROPOSED GROUND WATER MONITORING STATION FOR NORTHERN TRACT (MONITORING WELL)
	EXISTING STREAM SAMPLE LOCATION
	EXISTING SPRING/SEEP LOCATION
	NPDS DISCHARGE LOCATION
	BACKGROUND SURFACE WATER MONITORING STATION FOR NORTHERN TRACT
	BACKGROUND AND LONG TERM SURFACE WATER MONITORING STATION FOR NORTHERN TRACT
	BACKGROUND GROUND WATER MONITORING STATION FOR NORTHERN TRACT (EXISTING PRIVATE WATER SUPPLY WELL)
	BACKGROUND AND LONG TERM GROUND WATER MONITORING STATION FOR NORTHERN TRACT QUARRY (EXISTING PRIVATE WATER SUPPLY WELL)

GEOLOGY LEGEND



STRIKE AND DIP SYMBOL LEGEND

	REGIONAL AXIAL-PLANE CLEAVAGE (S1)
	INCLINED STRIKE AND DIP OF BEDDING IN SEDIMENTARY ROCKS (S0)
	INTERSECTION OF REGIONAL AXIAL-PLANE CLEAVAGE WITH DOMINANT SLIP (CRENULATION) CLEAVAGE (L1x2)
	OVERTURNED STRIKE AND DIP OF LAYERING OR FLOW (?) BANDING IN VOLCANIC ROCKS (S0)
	INCLINED STRIKE AND DIP OF LAYERING OR FLOW (?) BANDING IN VOLCANIC ROCKS (S0)
	MULTIPLE JOINT SYSTEM STRIKE AND DIP OF SYSTEMATIC JOINT IN THE CATOCTIN FORMATION (JS)
	OVERTURNED STRIKE AND DIP OF BEDDING IN SEDIMENTARY ROCKS (S0)
	SUBORDINATE SLIP OR CRENULATION CLEAVAGE (S2) STRIKE AND DIP CLEAVAGE
	MINERAL LINEATION IN THE PLANE OF REGIONAL AXIAL-PLANE CLEAVAGE (Lo)

SOURCE:
FAULT: JOHN L., 1978 GEOLOGIC MAP OF THE IRON SPRINGS AND BLUE RIDGE SUMMIT QUADRANGLES, ADAMS AND FRANKLIN COUNTIES, PENNSYLVANIA

ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS
ACOMP	ASPHALT COATED CORRUGATED METAL PIPE
AOC	APPROXIMATE ORIGINAL CONTOUR
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
€	CENTERLINE
CA	COARSE AGGREGATE
CC OR C/C	CENTER TO CENTER
CMP	CORRUGATED METAL PIPE
CPEP OR C/P	CORRUGATED POLYETHYLENE PIPE
CSP	CORRUGATED STEEL PIPE
CUP	CONDITIONAL USE PERMIT
CY	CUBIC YARD
DIA	DIAMETER
DIM	DIMENSION
DWG	DRAWING
EL	ELEVATION
FT	FOOT
FP	FILTER POINT
HDPE	HIGH DENSITY POLYETHYLENE
ID	INSIDE DIAMETER
INV	INVERT
MAX	MAXIMUM
MDD	MAXIMUM DRY DENSITY AS DETERMINED BY STANDARD PROCTOR TESTING
MIN	MINIMUM
MISC	MISCELLANEOUS
MSHA	MINE SAFETY AND HEALTH ADMINISTRATION
NAG	NORTH AMERICAN GREEN
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NO	NUMBER
NT	NORTHERN TRACT
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PADEP-DMO	PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION-DISTRICT MINING OPERATIONS
PENNDOT	PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
PE	POLYETHYLENE
PERF	PERFORATED/PERFORATION
PSI	POUNDS PER SQUARE FOOT
PSF	POUNDS PER SQUARE INCH
RCE	ROCK CONSTRUCTION ENTRANCE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REINF	REINFORCING
REQ'D	REQUIRED
RR	RAILROAD
R/W	RIGHT-OF-WAY
SGI	SPECIALTY GRANULES LLC
SHT	SHEET
STA	STATION
STD	STANDARD
TYP	TYPICAL
WWF	WELDED WIRE FABRIC
+/-	PLUS OR MINUS
Ø	NUMBER
#	DIAMETER
X:X:1	X.XFT HORIZONTAL PER 1FT VERTICAL

GENERAL NOTES

GENERAL NOTES:

- OWNER SHALL BE DEFINED AS SPECIALTY GRANULES, LLC AND ITS REPRESENTATIVES. ENGINEER SHALL BE A PROFESSIONAL ENGINEER LICENSED AND REGISTERED IN THE COMMONWEALTH OF PENNSYLVANIA WHO IS FAMILIAR WITH THE VARIOUS ASPECTS OF THIS PROJECT.
- ALL WORK SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES FOR THE SITE, AND THE LATEST APPROVED PUBLICATIONS, STANDARDS, OR SPECIFICATIONS REFERENCED HEREIN.
- THREE DIMENSIONAL CADD FILES ARE AVAILABLE FROM THE OWNER FOR SURVEY CONTROL OF THE CRITICAL FEATURES OF THE WORK. CRITICAL FEATURES SHALL BE STAKED OUT IN THE FIELD FOR APPROVAL FROM THE CONTRACTOR AND ENGINEER PRIOR TO CONSTRUCTION.
- ALL QUESTIONS, AMBIGUITIES, AND CONFLICTS IN THE CONTRACT DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. ISSUES THAT ARE TECHNICAL IN NATURE SHALL BE RESOLVED THROUGH THE ENGINEER.
- COORDINATE THE IDENTIFICATION, PROTECTION, OR DECOMMISSIONING (AND RELOCATION AS APPLICABLE) OF UTILITIES WITHIN THE PERMIT AREA THROUGH THE OWNER AND RESPECTIVE UTILITY COMPANY.

GENERAL RECLAMATION NOTES:

- IF APPLICABLE, OBTAIN AS-BUILT DATA OF OVERBURDEN SOIL STORAGE LOCATIONS PRIOR TO ANY EARTHWORK ACTIVITIES TO PROVIDE A BASIS FOR DETERMINING OVERBURDEN SOIL VOLUMES.
- ALL NON-HAZARDOUS DEBRIS SUCH AS DITCH LININGS, CONCRETE RUBBLE, AND GEOTEXTILE SHALL BE BURIED AT LEAST FIVE FEET FROM THE FINAL RECLAMATION GRADE.
- DURING ANY CONSTRUCTION FOR RECLAMATION, ADDITIONAL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED DOWNSLOPE OF ANY DISTURBED AREAS THAT COULD POTENTIALLY IMPACT THE WATER QUALITY OF RECEIVING WATERWAYS.

GENERAL EARTHWORK NOTES:

- THE LOCATIONS AND ELEVATIONS OF EMBANKMENT SLOPE TOES MAY REQUIRE ADJUSTMENT DURING CONSTRUCTION TO ENSURE FILL IS BEARING ON STABLE SUBGRADE AS DIRECTED BY THE ENGINEER/OWNER.
- THE DEPTH AND THICKNESS OF THE SUBSURFACE STRATA SHOWN ON SECTIONS AND ELEVATIONS IN THESE DRAWINGS WERE GENERALIZED FROM AND INTERPOLATED BETWEEN BORINGS AND TEST PITS. INFORMATION ON THE ACTUAL SUBSURFACE CONDITIONS EXISTS ONLY AT THE LOCATION OF THE BORINGS AND TEST PITS AND IT IS POSSIBLE THAT SUBSURFACE CONDITIONS BETWEEN THE BORINGS AND TEST PITS MAY VARY FROM THOSE INDICATED. LOCATIONS AND ELEVATIONS OF UPPER FIRM ROCK OR COMPETENT ROCK SHOULD BE VERIFIED BY THE ENGINEER/OWNER OR ENGINEERS/OWNERS FIELD REPRESENTATIVE IN EXCAVATIONS PRIOR TO EARTHWORK PLACEMENT ACTIVITIES.
- SLOPES AND GRADES OF BOTH THE ORIGINAL GROUND SURFACE AND PROPOSED GROUND SURFACE MAY VARY THROUGHOUT THE CONSTRUCTION AREA. SLOPES AND GRADES OF PROPOSED SLOPES MAY BE CHANGED AS REQUIRED BY THE ENGINEER/OWNER.

GENERAL EROSION AND SEDIMENTATION CONTROL NOTES:

- EROSION AND SEDIMENTATION (E&S) CONTROLS MUST BE CONSTRUCTED, STABILIZED AND FUNCTIONAL BEFORE SITE DISTURBANCE WITHIN TRIBUTARY AREAS OF THOSE CONTROLS.
- UPON ENTRY INTO A NEW WORK AREA, UTILIZE EXISTING ROADS AND ACCESS CORRIDORS TO THE EXTENT PRACTICAL TO CONSTRUCT INITIAL E&S CONTROLS. SUPPLEMENTAL CONSTRUCTION ACCESS CORRIDORS MAY BE DEVELOPED WHERE NECESSARY, BUT SHOULD BE LIMITED TO THE EXTENT PRACTICAL.
- LOCAL E&S CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE TRIBUTARY AREA HAS BEEN STABILIZED WITH AT LEAST A 70% STAND OF VEGETATION (OR A UNIFORM COVERING OF CLEAN AGGREGATE) OR IS DIRECTED TO DRAIN INTO AN ALTERNATE E&S CONTROL STRUCTURE, AND REMOVAL OF THE E&S CONTROLS HAVE BEEN APPROVED BY THE MINE CONSERVATION OFFICER.
- INSTALLATION OF EROSION AND SEDIMENTATION CONTROLS AND STRUCTURES SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE TECHNICAL SPECIFICATIONS AND THE DETAILS SHOWN ON THESE DRAWINGS.
- INCREMENTALLY REVEGETATE OR STABILIZE DISTURBED AREAS AS THE AREAS ARE BROUGHT TO FINAL GRADES. ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED AND WHICH WILL REMAIN EXPOSED FOR MORE THAN 20 DAYS SHALL BE STABILIZED IMMEDIATELY. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE RECOMMENDED RATES INDICATED IN THE TECHNICAL SPECIFICATIONS.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION CONTROLS MUST BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROLS AFTER EACH PRECIPITATION EVENT AND ON A WEEKLY BASIS BY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANING, REPAIR, REPLACEMENT, REGRADING, RESEEDING AND REMULCHING MUST BE PERFORMED IMMEDIATELY.
- CLEARING IS DEFINED AS THE REMOVAL OF TREES AND OTHER VEGETATION WITHOUT DISTURBING THE ROOT STRUCTURE AND WITH MINIMAL SURFACE DISTURBANCE.
- GRUB/GRUBBING IS DEFINED AS THE REMOVAL OF THE ROOT STRUCTURE FOR HEAVY BRUSH, TREES AND OTHER VEGETATION.
- CLEARING MAY BE PERFORMED AHEAD OF SITE DEVELOPMENT, PRIOR TO THE INSTALLATION OF E&S CONTROLS PROVIDED THAT NO SIGNIFICANT ROADS ARE REQUIRED TO BE DEVELOPED FOR SITE ACCESS.
- GRUBBING AND OVERBURDEN SOIL STRIPPING SHALL BE PERFORMED AHEAD OF SITE DEVELOPMENT, BUT ONLY AFTER THE ASSOCIATED E&S CONTROLS ARE ESTABLISHED.



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NOTES / REVISIONS

ISSUED FOR	DATE	REV.	REVISION DESCRIPTION	MADE BY	CHKD BY	DATE
		4				
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SEAL:



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SPECIALTY GRANULES LLC
CHARMIAN - NORTHERN TRACT QUARRY

LEGEND AND ABBREVIATIONS

SCALE: AS SHOWN

DRAWING NO. 3

REV 0