

Town of Mt. Crested Butte

Anthracite Drive Slump Rehabilitation



This project includes the remediation of a roadway slump along Anthracite Drive (Lower Slump). Remediation includes improving drainage, installing a culvert and underdrains, installing a culvert, and removal and replacement of existing fill materials with a modified reinforced soil slope (RSS) embankment. The work also includes hot mix asphalt paving and a concrete valley pan.



103 W. Tomichi Ave., Suite A
Gunnison, CO 81230
970.641.5355
www.sgm-inc.com

Project Engineer

Gerald E. Burgess, P.E. 38250

Town of Mt. Crested Butte

Jeffrey Smith

911 Gothic Road
Mt Crested Butte, CO 81225
(970) 349-6632

Project Contacts

Jeffrey Smith	Capital Projects Manager	(970)349-6632
Bobby Block	Maintenance Supervisor	(970)349-6632
Mark Gayeski	Design Engineer, SGM	(970)707-8156
Jerry Burgess	Project Manager, SGM	(970)641-5355

Final Bid Set

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UNCC 1-800-922-1987



Town of Mt. Crested Butte
Anthracite Drive Slump Rehabilitation

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1. TOWN OF MT. CRESTED BUTTE CONSTRUCTION and THE WATER AND SANITATION DISTRICT CONSTRUCTION STANDARDS APPLY TO THIS PROJECT.
2. ALL WORK SHALL BE DONE TO THE HORIZONTAL AND VERTICAL INFORMATION SHOWN ON THE PLANS. NO FIELD CHANGES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY PERFORMING ALL WORK IN ACCORDANCE WITH APPLICABLE OSHA STANDARDS AND REGULATIONS.
4. THE ENGINEER AND OWNER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
5. ALL PUBLIC AND PRIVATE UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS (OR AS REQUIRED BY UTILITY COMPANIES) PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY.
6. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE OWNER AND THEIR ASSIGNED REPRESENTATIVE. THE OWNER AND THEIR ASSIGNED REPRESENTATIVE RESERVE THE RIGHT TO ACCEPT OR REJECT ANY MATERIALS AND WORKMANSHIP THAT DO NOT CONFORM TO THE PLANS OR SPECIFICATIONS.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE A SUFFICIENT NUMBER OF PRE-CONSTRUCTION PHOTOGRAPHS/VIDEOS TO RESOLVE ANY DISPUTES, WHICH MAY ARISE REGARDING THE CONDITIONS PRIOR TO AND SUBSEQUENT TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE COPIES OF THE PRE-CONSTRUCTION PHOTOGRAPHS/VIDEOS TO THE ENGINEER PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL IDENTIFY ANY APPARENT POTENTIAL PROBLEMS AT THAT TIME.
8. PROGRESS AND RECORD PHOTOGRAPHS/VIDEOS SHALL BE PROVIDED BY THE CONTRACTOR TO RESOLVE DISPUTES AND TO DOCUMENT THE WORK PERFORMED AS A SUPPLEMENT TO THE RECORD DRAWINGS. IN GENERAL, ANY PHOTOGRAPHS/VIDEOS SHOULD BE SUFFICIENT TO SHOW THAT ALL WORK WAS PROPERLY COMPLETED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
9. GEOTECHNICAL SUBSOIL STUDIES PROVIDED BY ROCKSOL CONSULTING GROUP AND IS AVAILABLE UPON REQUEST. THE REPORT IS DATED AUGUST 15, 2024.
10. SUBMITTALS SHALL BE PROVIDED FOR ALL MATERIALS TO BE INCORPORATED INTO THE PROJECT. SHOP DRAWINGS SHALL BE PROVIDED FOR ALL ITEMS HAVING DIMENSIONAL REQUIREMENTS. MATERIALS SUBMITTALS AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. THE ENGINEER'S REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR ACCURACY, PROPER FIT OR PROPER FUNCTIONING AND PERFORMANCE OF THE WORK.
11. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY FACILITIES FOR THEIR OWN CONVENIENCE OR TO MEET LOCAL, STATE OR FEDERAL REQUIREMENTS, INCLUDING, BUT NOT LIMITED TO, POTABLE WATER, SANITARY WASTE FACILITIES, POWER, TELEPHONE, INTERNET, ETC. SANITARY FACILITIES SHALL BE LOCATED ON SITE AND SHALL BE FULLY OPERATIONAL BEFORE CONSTRUCTION CAN BEGIN. SANITARY FACILITIES SHALL BE FIRMLY SECURED AGAINST OVERTURNING AND SHALL BE PLACED AWAY FROM FLOW LINES OF STREETS, SWALES, RAIN GARDENS AND AWAY FROM INLETS. THE COST OF THESE FACILITIES WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
12. THE CONTRACTOR WILL BE RESPONSIBLE FOR DAILY CLEANING OF THE JOB SITE DURING AND AFTER CONSTRUCTION. A CONTINUING EFFORT SHALL BE MADE THROUGH THE DURATION OF THE CONTRACT TO KEEP ALL AREAS CLEAN AND FREE OF ALL LITTER, REMOVED VEGETATION, CONSTRUCTION WASTE, EMPLOYEE WASTE, AND OTHER OBJECTIONABLE MATERIALS GENERATED FROM THE PROJECT. MUD AND DIRT TRACKED ON TO TOWN ROADS SHALL BE SWEEPED AND CLEANED DAILY.
13. FINAL CLEAN-UP MUST BE APPROVED AND ACCEPTED BY THE OWNER BEFORE THE CONTRACT MAY BE CONSIDERED COMPLETE.

1. IF GRAVEL BACKFILL OR INSULATION AROUND A WATERLINE IS ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
2. MT. CRESTED BUTTE WATER & SANITATION DISTRICT (MCBWD), THE TOWN, AND ENGINEER SHALL BE NOTIFIED OF CONSTRUCTION ACTIVITIES RELATED TO EXPOSING THE WATERLINE FORTY-EIGHT (48) HOURS BEFORE COMMENCEMENT.
3. IF POTENTIAL SETTLEMENT OR POINT LOAD MAY DAMAGE THE WATERLINE, STRUCTURAL SUPPORT SHALL BE DESIGNED AND UTILIZED BY THE ENGINEER. NO JOINTS SHALL BE ALLOWED BETWEEN THE SUPPORT.
4. IF A WATERLINE IS DAMAGED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR THE LINE IN ACCORDANCE WITH MCBWD STANDARDS AND SPECIFICATIONS.

1. SOURCE OF MAPPING: EXISTING FIELD CONDITIONS WERE GENERATED BY A SURVEY PERFORMED BY SGM, GUNNISON, CO.
2. PROPERTY LINES, MONUMENTS, BENCHMARKS, SURVEY CONTROL, AND ADDITIONAL HISTORIC SURVEY INFORMATION CANNOT BE REMOVED FOR CONSTRUCTION. DISTURBED SURVEY ITEMS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE RESTORED BY A STATE OF COLORADO LICENSED LAND SURVEYOR.

1. PROPERTY OWNER ACCESS SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR. FOR THIS PROJECT, THERE IS NO POSSIBLE DETOUR AROUND THE WORK FOR RESIDENTIAL ACCESS OR ACCESS TO THE WATER AND SANITATION DISTRICTS WATER TANKS. ONE LANE ACCESS SHALL BE MAINTAINED AS PART OF TRAFFIC CONTROL. SHORT DURATION FULL CLOSURES CAN BE ACCOMMODATED WITH TOWN APPROVAL IN ADVANCE AND PROPER NOTIFICATION TO RESIDENTS.
2. TRAFFIC CONTROL IS NECESSARY. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL BY THE JURISDICTION OF AUTHORITY OR ENGINEER. TRAFFIC CONTROL PLAN SHALL INCLUDE METHODS OF HANDLING TRAFFIC (MHT'S) APPLICABLE TO THE WORK.
3. ALL CONSTRUCTION TRAFFIC CONTROL SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
4. THE CONTRACTOR SHALL ALLOW FOR PEDESTRIAN AND BICYCLE ACCESS DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL TREES, BUSHES, AND EXISTING IMPROVEMENTS INSIDE AND OUTSIDE THE LIMITS OF WORK NOT CALLED OUT FOR REMOVAL OR REPLACEMENT.
6. THE CONTRACTOR SHALL PROTECT THE EXISTING DRAINAGE STRUCTURES AND REROUTE ANY RUNOFF AS NECESSARY DURING CONSTRUCTION ACTIVITIES TO PREVENT EROSION AND DAMAGE.
7. ALL EXISTING UTILITIES, EITHER UNDERGROUND OR OVERHEAD, SHALL BE MAINTAINED IN CONTINUOUS SERVICE THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE AND LIABLE FOR ANY DAMAGE TO, OR INTERRUPTION OF SERVICES CAUSED BY THE CONSTRUCTION.

1. THE CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES (A.K.A. BEST MANAGEMENT PRACTICES OR BMPs), TO CONTROL EROSION AND SEDIMENTATION DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ALL TEMPORARY EROSION CONTROL MEASURES.
2. THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO ANY SITE GRADING OR EXCAVATION ACTIVITIES. CONTRACTOR SHALL ALSO IMPLEMENT APPROPRIATE CONTROL MEASURES FOR PROTECTION OF WETLANDS, SENSITIVE HABITAT, AND EXISTING VEGETATION FROM GROUND DISTURBANCE AND OTHER POLLUTANT SOURCES BEFORE CONSTRUCTION BEGINS.
3. THE CONTRACTOR SHALL INSPECT THE CONSTRUCTION SITE, INCLUDING ALL BMP'S, STORAGE CONTAINERS, AND CONSTRUCTION EQUIPMENT, AT LEAST EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER A PRECIPITATION

1. A TACK COAT OF EMULSIFIED ASPHALT (SLOW-SETTING) SHALL BE APPLIED AT THE FOLLOWING LOCATIONS:
 - 1.1. BEFORE PLACING NEW PAVEMENT OVER EXISTING PAVEMENT
 - 1.2. ALONG THE FACE OF ALL EXISTING PAVEMENT, AND ALL SURFACES AGAINST WHICH ASPHALT IS TO BE PLACED BETWEEN PAVEMENT COURSES
 - 1.3. PREPARED BASE COURSES SHALL BE TACK COATED AT CONTRACTOR'S EXPENSE IF THE SURFACE HAS DETERIORATED DUE TO TRAFFIC, WEATHER OR TIME LAPSE BETWEEN SURFACE PREPARATION AND PLACEMENT OF BITUMINOUS MATERIALS, AS DIRECTED BY THE ENGINEER.
2. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT (SLOW-SETTING) AND 1 PART WATER. APPLICATION RATE SHALL BE 0.1 GALS/SQ.YD.
3. BEFORE PLACEMENT OF THE TACK COAT, THE CONTRACTOR SHALL CLEAN THE SURFACES TO BE TACK COATED. SURFACES SHALL BE APPROVED BY ENGINEER PRIOR TO TACK COATING. CLEANING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
4. THE FOLLOWING SHALL BE USED WITH EACH BITUMINOUS PAVER:
 - 4.1. A SKI-TYPE DEVICE AT LEAST 30 FEET IN LENGTH.
 - 4.2. SHORT SKI OR SHOE.
5. ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED TO THE FULL AVAILABLE WIDTH WITHIN EACH PHASE OF CONSTRUCTION BEFORE THE SUCCEEDING LAYER IS PLACED.
6. WHERE NEW PAVEMENT IS TO ABUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE USING A PAVEMENT-CUTTING SAW AND MILLED TO A DEPTH OF 2" OVER 24" WIDE, OR OTHER METHOD AS APPROVED BY THE ENGINEER. VERTICAL EDGES SHALL NOT REMAIN OVERNIGHT. THE WORK WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

1. ANY OPEN EXCAVATION LEFT UNATTENDED SHALL BE BARRICADED OR FENCED OFF BY THE CONTRACTOR.
2. IF GROUNDWATER IS ENCOUNTERED CONTACT ENGINEER BEFORE PROCEEDING WITH WORK IN AREA OF GROUNDWATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT. GROUNDWATER SHALL BE PUMPED, PIPED, REMOVED AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STREETS OR EROSION ON ADJUTING PROPERTIES. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND MEETING REQUIREMENTS OF CDPHE WATER QUALITY CONTROL DIVISION DEWATERING PERMIT FOR ANY DEWATERING DISCHARGES.
3. PLACEMENT OF AGGREGATE BASE COURSE OR PAVING SHALL NOT BEGIN UNTIL THE ENGINEER HAS APPROVED THE SUBGRADE. THE SUBGRADE SHALL BE PROOF ROLLED (BY THE CONTRACTOR) AND APPROVED BY THE ENGINEER PRIOR TO THE PLACEMENT OF ANY SUBSEQUENT STRUCTURAL LAYERS. AREAS THAT DEFORM UNDER HEAVY WHEEL LOADS AS DETERMINED BY THE ENGINEER ARE NOT STABLE AND SHALL BE REMOVED AND REPLACED TO ACHIEVE A STABLE SUBGRADE. THE ENGINEER SHALL APPROVE THE TYPE AND WEIGHT OF THE VEHICLE TO BE USED FOR THE PROOF ROLL. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND LABOR NECESSARY FOR THE PROOF ROLL. PROOF ROLLING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
4. WATER FOR COMPACTION WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
5. MOISTURE DENSITY CONTROL WILL BE REQUIRED FOR FULL DEPTH OF EMBANKMENTS AND AGGREGATE BASE COURSE IN PAVED AREAS.

1. SAWCUT ALL ASPHALT PAVEMENT TO BE REMOVED. FINAL LIMITS OF REQUIRED SAWCUTTING AND PATCHING MAY VARY FROM LIMITS SHOWN ON PLANS. CONTRACTOR TO PROVIDE SAWCUT AND PATCH WORK TO ACHIEVE POSITIVE DRAINAGE AND A SMOOTH TRANSITION TO EXISTING ASPHALT WITHIN SLOPES ACCEPTABLE TO THE ENGINEER AND WITHIN MUNICIPAL STANDARDS. CONTRACTOR SHALL PROVIDE ADDITIONAL SAWCUTTING AND PATCHING AT UTILITY WORK, CONNECTION POINTS TO EXISTING PAVEMENT AND FEATURES, ETC. THAT MAY NOT BE DELINEATED ON PLANS.
2. ALL EXCESS MATERIALS GENERATED FROM THE SITE ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY.

1. THE DISTURBED SLOPES SHALL BE RAKED SMOOTH AND SEEDED WITH "DRY MOUNTAIN NATIVE GRASS SEED" ALONG WITH "QUICK GUARD - STERILE TRITICALE HYBRID" SEED MIX.
2. DISTURBED AREAS SHALL BE FINE GRATED AND RAKED TO REMOVE ALL ROCKS OVER THREE INCHES IN DIAMETER. PLACE TOPSOIL TO A DEPTH OF THREE INCHES ON ALL DISTURBED AREAS.
3. BIO DEGRADABLE SOIL RETENTION BLANKETS SHALL BE INSTALLED ON SLOPES STEEPER THAN 3H:1V.
4. SUBMIT THE SEED MIX FOR APPROVAL BY THE TOWN.

1. THIS IS NOT A "SUBSURFACE UTILITY ENGINEERING-REQUIRED PROJECT," AS SET FORTH IN THE 8/8/2018 COLORADO STATE LAW. SEE CHECKLIST BELOW FOR ENGINEER'S BASIS FOR THIS DETERMINATION. (NOTE: A PROJECT MUST MEET ALL 4 CONDITIONS)

COLORADO REVISED STATUTES (CRS) 2018 TITLE 9-1.5-102 SUBSURFACE UTILITY ENGINEERING (SUE) REQUIRED PROJECT COMPLIANCE CHECKLIST					
1	9-1.5-1 02-6.8.A	PROJECT INVOLVES CONSTRUCTION CONTRACT WITH A PUBLIC ENTITY	X	YES	NO
2	9-1.5-1 02-6.8.B	PROJECT INVOLVES PRIMARILY HORIZONTAL CONSTRUCTION AND DOES NOT INVOLVE PRIMARILY THE CONSTRUCTION OF BUILDINGS	X	YES	NO
3A	9-1.5-1 02-6.8.C .1.A	EXCAVATION FOOTPRINT EXCEEDS 2-FEET DEPTH AND IS A CONTIGUOUS 1,000-SQUARE FEET; OR	X	YES	NO
3B	9-1.5-1 02-6.8.C .1.B	INVOLVES UTILITY BORING		YES	X NO
4	9-1.5-1 02-6.8.D	PROJECT REQUIRES THE DESIGN SERVICES OF A LICENSED PROFESSIONAL ENGINEER (P.E.)		YES	X NO
SUMMARY	9-1.5-1 03-2.4	REQUIRED TO MEET OR EXCEED THE ASCE 38 STANDARD AND CO SUE LAW?		YES	X NO

2. EXISTING UTILITIES ARE DEPICTED ACCORDING TO THE BEST AVAILABLE INFORMATION THAT WAS PROVIDED BY THE UTILITY OWNERS AND SURFACE FEATURES AT THE TIME OF THE SURVEY. RELIANCE UPON THIS UTILITY DATA FOR RISK MANAGEMENT PURPOSES DOES NOT RELIEVE THE PROJECT OWNER, CONTRACTOR, OR UTILITY COMPANY FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811 OR 800-922-1987, TO VERIFY EXISTING UTILITIES AND HAVE LOCATIONS OF UNCC REGISTERED LINES MARKED BY MEMBER COMPANIES.
3. OTHER UTILITIES MAY BE PRESENT WHICH WERE NOT IDENTIFIED IN THIS PLAN SET OR PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE DUE-DILIGENCE AND ENACT GOOD PRACTICES WHEN EXCAVATING NEAR POTENTIAL CONFLICT AREAS AND REDUCE POTENTIAL DAMAGE TO UTILITIES AS MUCH AS POSSIBLE.
4. SHOULD THE CONTRACTOR ENCOUNTER UNKNOWN AND/OR ABANDONED UTILITIES THE CONTRACTOR SHALL VERIFY WITH THE RESPECTIVE UTILITY OWNER THAT THE UTILITY IS INACTIVE/ABANDONED BEFORE REMOVAL FROM THE WORK AREA
5. THE CONTRACTOR SHALL COMPLY WITH COLORADO REVISED STATUTES (CRS) 2018, TITLE 9, ARTICLE 1.5-103 (10), "ALL NEW UNDERGROUND FACILITIES, INCLUDING LATERALS UP TO THE STRUCTURE OR BUILDING BEING SERVED, INSTALLED ON OR AFTER 8/8/2018, MUST BE ELECTRONICALLY LOCATABLE WHEN INSTALLED."

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LEGEND

LINETYPES

EXISTING	PROPOSED	DESCRIPTION
		UNDERGROUND TELEPHONE LINE
		LOW PRESSURE GAS LINE
		UNDERGROUND CABLE TELEVISION LINE
		OVERHEAD CABLE TELEVISION LINE
		UNDERGROUND ELECTRICAL LINE
		STORM DRAIN LINE
		WATER LINE
		SANITARY SEWER LINE
		DRAINAGE SWALE FLOWLINE
		BARBED-WIRE FENCE LINE
		CHAIN LINK FENCE
		SILT FENCE
		CULVERT & FES
		EDGE OF ASPHALT
		EDGE OF CONCRETE
		CENTERLINE
		CONTOURS
		RIGHT-OF-WAY
		VEGETATION
		LIMITS OF DISTURBED AREA
		TOP OF CUT
		TOP OF FILL
		EASEMENT

HATCHING

EXISTING	PROPOSED	DESCRIPTION
		ASPHALT REMOVAL
		ASPHALT
		CONCRETE REMOVAL
		CONCRETE SURFACING (PLAN VIEW)
		GRAVEL SURFACING
		RIPRAP/RIVER ROCK
		UNDISTURBED SOIL
		RECOMPACTED SOIL

SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		DECIDUOUS TREE
		CONIFEROUS TREE
		MONUMENT MARKER
		PEDESTALS (TELE)
		MANHOLES (SANITARY, WATER)
		ELECTRIC TRANSFORMER
		WATER VALVE
		FIRE HYDRANT
		METERS (GAS, ELECTRIC, WATER)
		MONITORING WELL
		CLEAN-OUT
		SIGN
		MAILBOX
		SOIL BORING LOCATION
		UTILITY POT HOLE LOCATION

@	AT
#	NUMBER
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
ABUT	ABUTMENT
ALT	ALTERNATE
AP	ANGLE POINT
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
ASPH	ASPHALT
BM	BENCHMARK
BMP	BEST MANAGEMENT PRACTICES
BVCE	BEGINNING VERTICAL CURVE ELEVATION
BVCS	BEGINNING VERTICAL CURVE STATION
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CDPHE	COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
CF	CUBIC FEET
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
COM	COMMUNICATIONS
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
COR	CORNER
CU	CUBIC
CY	CUBIC YARD
DEG	DEGREES
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	DRIVEWAY
DWG	DRAWING
E	EASTING
EA	EACH
EG	EXISTING GRADE
EL	ELEVATION
ELEV	ELEVATION
EOA	EDGE OF ASPHALT
EOD	EDGE OF DRIVEWAY
EOC	EDGE OF CONCRETE
EOG	EDGE OF GRAVEL
EOP	EDGE OF PAVEMENT
EPA	ENVIRONMENTAL PROTECTION AGENCY
ESMT	EASEMENT
EST	ESTIMATE
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EX	EXISTING
EXIST	EXISTING
FES	FLARED END SECTION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FWHA	FEDERAL HIGHWAY ADMINISTRATION
FL	FLOWLINE
FT	FEET
G	GAS
GB	GRADE BREAK
GIS	GEOGRAPHICAL INFORMATION SYSTEM
GPS	GLOBAL POSITIONING SYSTEM
GR	GRAVEL
GRAV	GRAVEL
GV	GATE VALVE
HCL	HORIZONTAL CONTROL LINE

ABBREVIATIONS

HDPE	HIGH DENSITY POLYETHYLENE	PVC	POLYVINYL CHLORIDE
HMA	HOT MIXED ASPHALT	PVI	POINT OF VERTICAL INTERSECTION
HORIZ	HORIZONTAL	PVMT	PAVEMENT
HP	HIGH POINT	PVT	POINT OF VERTICAL TANGENCY
HYD	HYDRANT	QA/QC	QUALITY ASSURANCE/QUALITY CONTROL
ID	INSIDE DIAMETER	QTY	QUANTITY
INT	INTERSECTION	R	RIGHT
INV	INVERT	R-R	REMOVE AND REPLACE
IP	INLET PROTECTION	RAD	RADIUS
JB	JUNCTION BOX	RCP	REINFORCED CONCRETE PIPE
L	LEFT	REF	REFERENCE
LGTH	LENGTH	REQ	REQUIRED
LF	LINEAR FOOT	REVEG	REVEGETATE
LPFM	LOW PRESSURE FORCE MAIN	ROW	RIGHT OF WAY
LP	LOW POINT	RP	RADIUS POINT
LS	LUMP SUM	RSS	REINFORCED SOIL SLOPE
MAT'L	MATERIAL	RW	RETAINING WALL
MAX	MAXIMUM	SAN	SANITARY
MH	MANHOLE	SD	STORM DRAIN
MCBWS	MT. CRESTED BUTTE WATER & SANITATION DISTRICT	SDR	STANDARD DIMENSION RATIO
MHT	METHOD OF HANDLING TRAFFIC	SE	SOUTHEAST
MIN	MINIMUM	SECT	SECTION
MISC	MISCELLANEOUS	SF	SQUARE FEET
MSE	MECHANICALLY STABILIZE EARTH	SHLDR	SHOULDER
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	SL	SANITARY SEWER LINE
MW	MONITORING WELL	SMH	SANITARY SEWER MANHOLE
N	NORTHING	SOD	GRASS AREA
N/A	NOT APPLICABLE	SS	SANITARY SEWER SERVICE
NAT	NATIVE GRASS AREA	SSD	STOPPING SIGHT DISTANCE
NAVD	NORTH AMERICAN VERTICAL DATUM	STA	STATION
NB	NORTH BOUND	STBK	SETBACK
NE	NORTHEAST	SY	SQUARE YARDS
NEPA	NATIONAL ENVIRONMENTAL POLICY ACT	TAN	TANGENT
NGVD	NATIONAL GEODETIC VERTICAL DATUM 1929	TOP	TRAFFIC CONTROL PLAN
NO	NUMBER	TELE	TELEPHONE
NTP	NOTICE TO PROCEED	TEMP	TEMPORARY
NTS	NOT TO SCALE	TP	TOP OF PIPE
NW	NORTHWEST	TRANS	TRANSITION
O/S	OFFSET	TRFLG	TRAFFIC FLANGE OF FIRE HYDRANT
OC	ON CENTER	TW	TOP OF WALL
OD	OUTSIDE DIAMETER	TYP	TYPICAL
OH	OVERHEAD	UCTV	UNDERGROUND CABLE TELEVISION LINE
OP	OUTLET PROTECTION	UE	UNDERGROUND ELECTRIC LINE
PC	POINT OF CURVATURE	UG	UNDERGROUND GAS LINE
PCC	POINT OF COMPOUND CURVATURE	USACE	US ARMY CORPS OF ENGINEERS
PED	PEDESTRIAN	USGS	US GEOLOGICAL SURVEY
PERM	PERMANENT	UT	UNDERGROUND TELEPHONE LINE
PG	PAGE	VC	VERTICAL CURVE
PI	POINT OF INTERSECTION	W	WIDE
PL	PROPERTY LINE	W/O	WITHOUT
PM	PROJECT MANAGER	WB	WEST BOUND
PNT	POINT	WL	WATER LINE
POC	POINT ON CURVE	WQCD	WATER QUALITY CONTROL DIVISION
POT	POINT ON TANGENT	WS	WATER SERVICE
PROP	PROPOSED	X-S	CROSS SLOPE
PSF	POUNDS PER SQUARE FEET	YD	YARD
PSI	POUNDS PER SQUARE INCH		
PT	POINT OF TANGENCY		



Town of Mt. Crested Butte

Anthracle Drive Slump Rehabilitation

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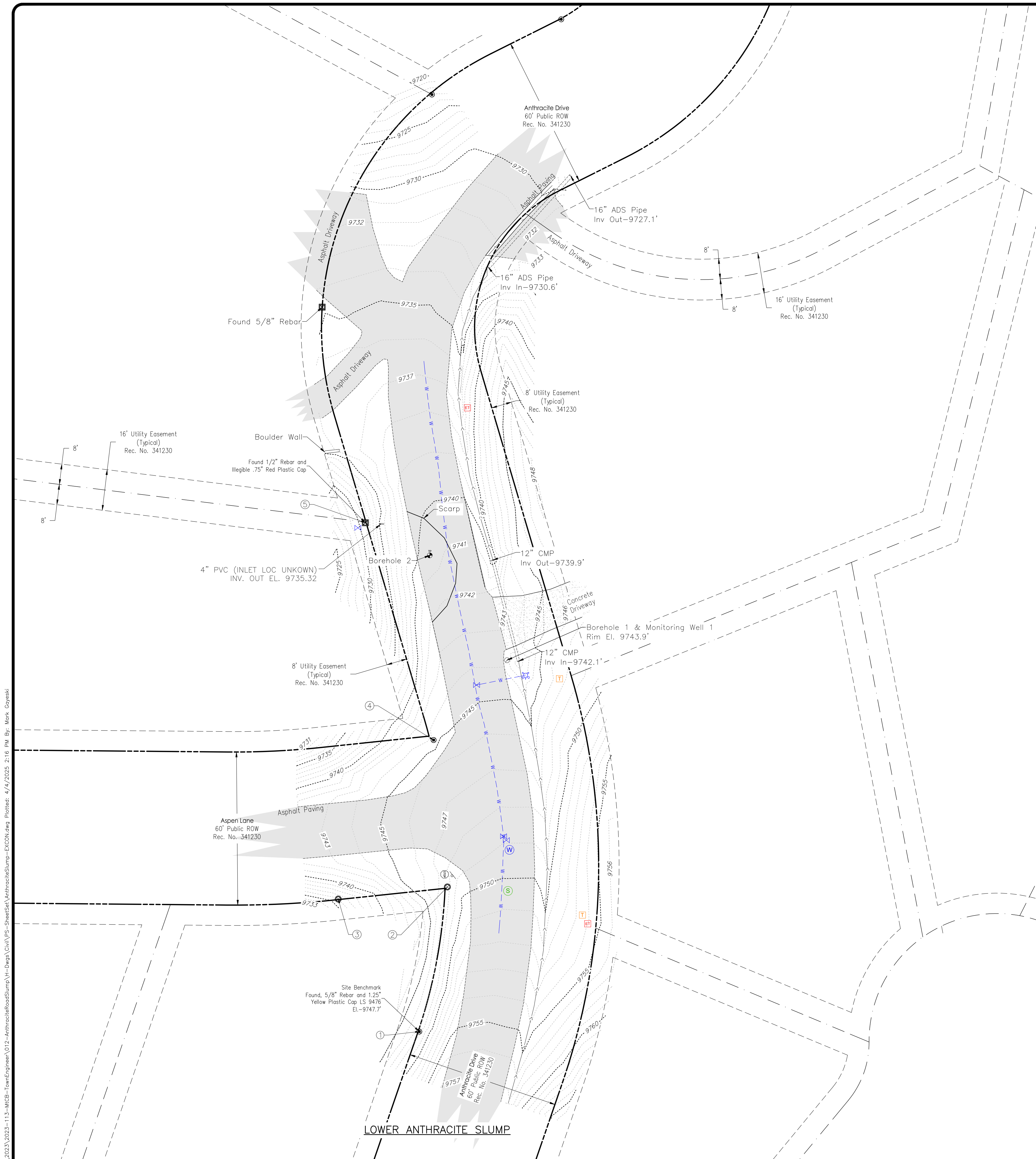
Job No.	2023-113.012
Drawn by:	MG
Print Date:	2025.04.04
QC:	JB PE:
File:	AnthracleSlump-Admin
Title:	

Legend & Abbreviations

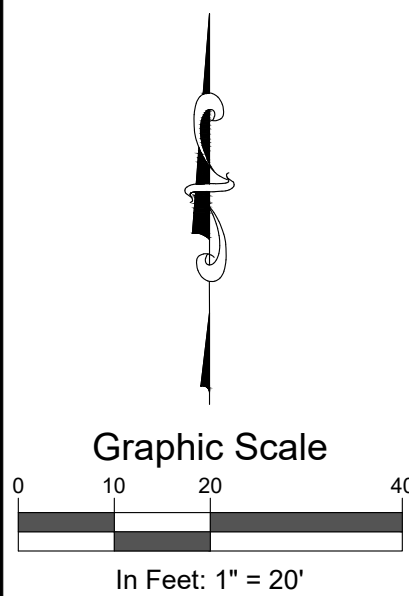
Dwg No.

3

Of: 9



SURVEY CONTROL POINT TABLE				
POINT	#	NORTHING	EASTING	DESCRIPTION
1		17133.98	20997.87	SITE BENCHMARK, 5/8" REBAR & 1.25" YELLOW PLASTIC CAP PLS 9476, EL--9747.66
2		17190.66	21008.87	5/8" REBAR & 1.25" YELLOW PLASTIC CAP PLS 9476
3		17185.91	20966.09	5/8" REBAR & 1.25" YELLOW PLASTIC CAP PLS 9476
4		17248.23	21003.48	5/8" REBAR & 1.5" ALUMINUM CAP PLS 11250
5		17333.41	20976.72	1/2" REBAR & ILLEGIBLE .75" RED PLASTIC CAP
6		16356.69	20994.62	5/8" REBAR & 1.5" ALUMINUM CAP PLS 5652
7		16404.23	21031.82	5/8" REBAR & 1.5" ALUMINUM CAP PLS 5652



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Town of Mt. Crested Butte
Anthracite Drive Slump Rehabilitation

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[illegible]

Job No.	2023-113.01		
Drawn by:	MC		
Print Date:	2025.04.0		
QC:	JB	PE:	JB
File:	AnthraciteSlump-EXCO		

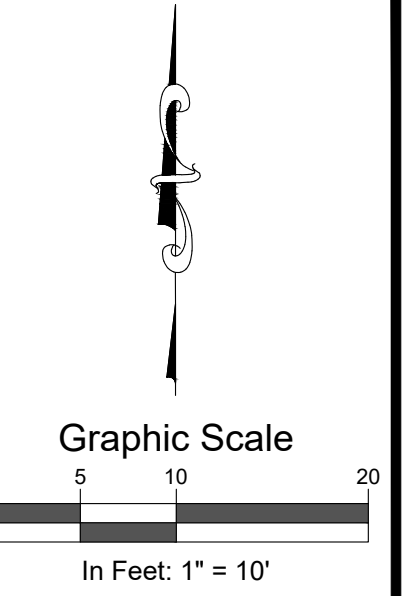
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Existing Conditions

Dwg No.

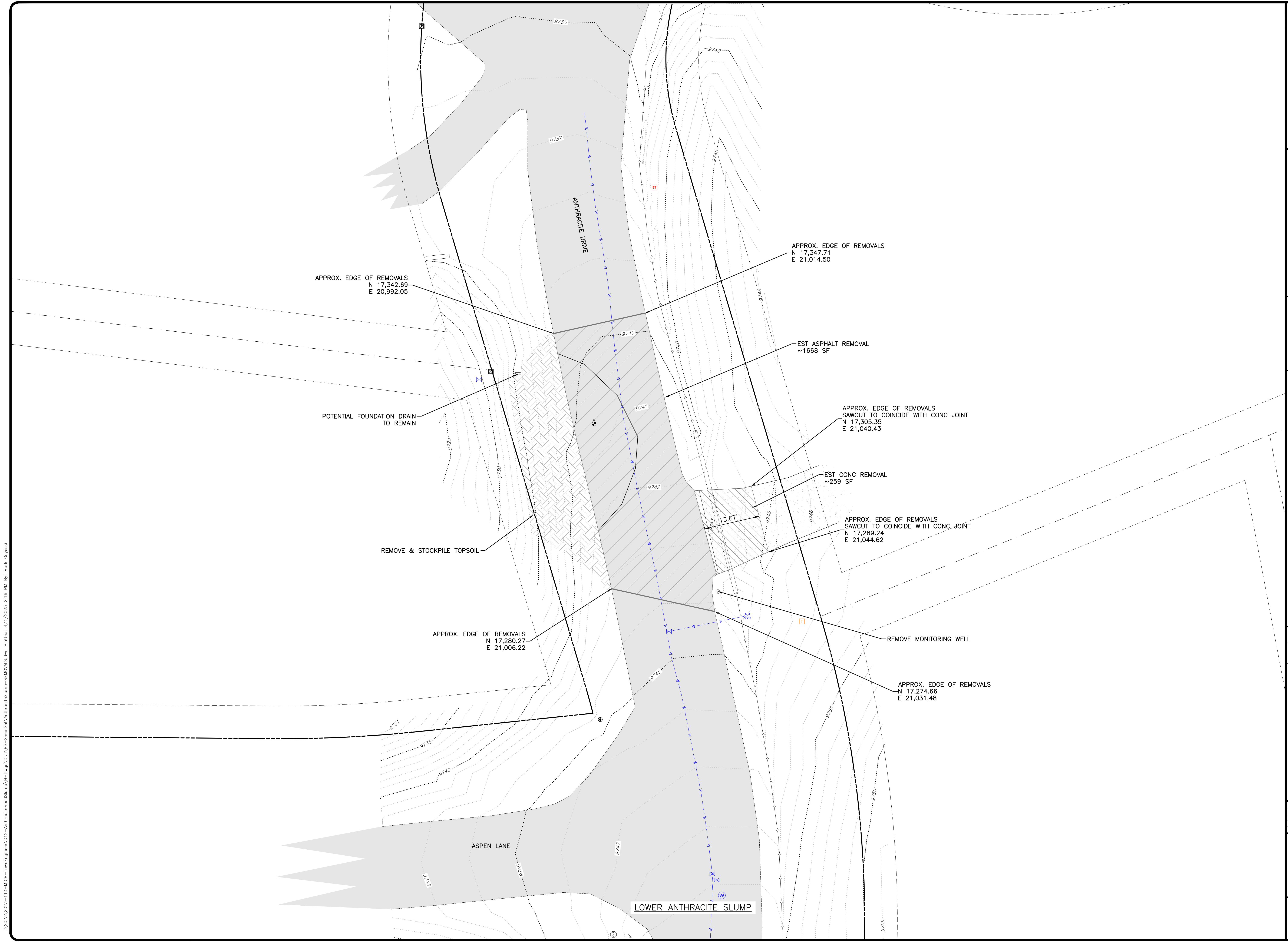
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Of: 9

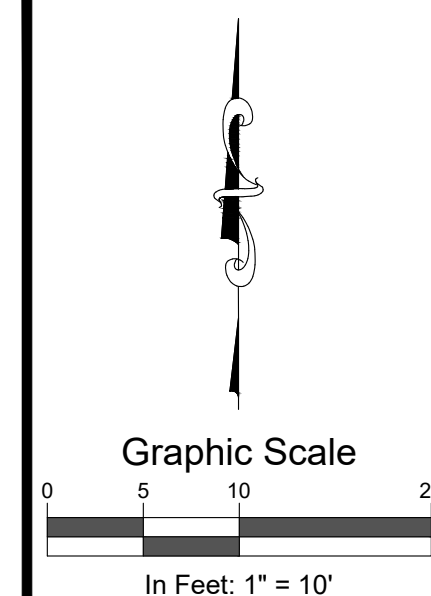
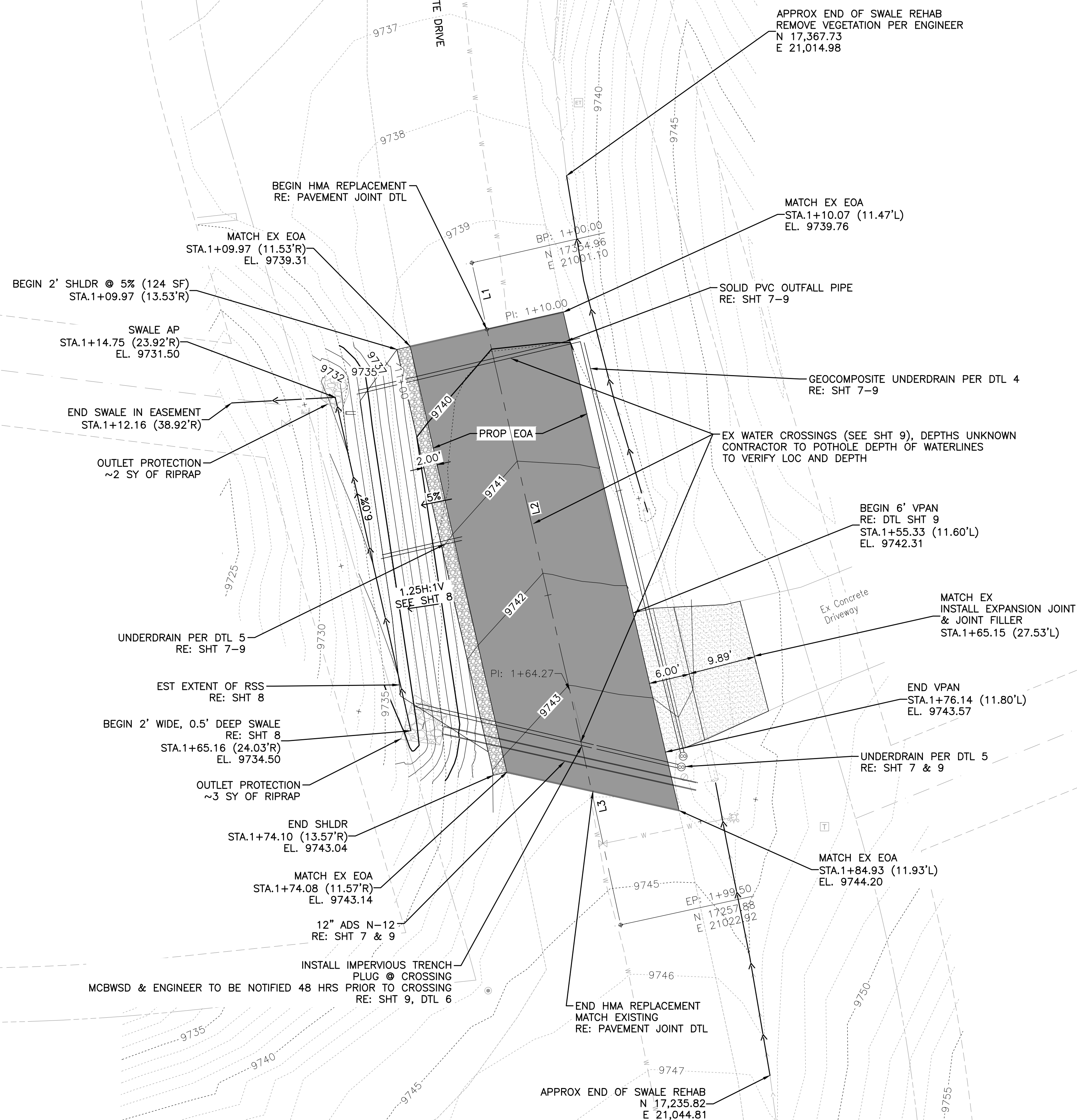


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[illegible]

LINE TABLE		
LINE #	BEARING	LENGTH
L1	S12°45'21"E	10.00
L2	S12°55'07"E	54.27
L3	S12°15'31"E	35.24



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[illegible]

Job No.	2023-113.01		
Drawn by:	M		
Print Date:	2025.04.0		
QC:	JB	PE:	J
File:	AnthraciteSlump-SITEPLA		

Title:

Lower Slump - Site Plan

Dwg No. _____

6

Of: 9

[illegible]

Lower Slump - Plan & Profile

