

UTILITIES

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THE CONTRACTOR SHALL COMPLY WITH ACT. NO. 287 OF THE GENERAL ASSEMBLY WHICH DEFINES THE PROCEDURES FOR NOTIFICATION TO PUBLIC UTILITIES PRIOR TO EXCAVATION, DRILLING OR DEMOLITION WORK USING POWERED EQUIPMENT OR EXPLOSIVES.

UTILITY COMPANY	ADDRESS	TELEPHONE	CONTACT
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BELL TELEPHONE CO. OF PA.	39 PUBLIC SQUARE WILKS-BARRE, PA. 18701	717-824-3513	DIST. PLANT ENGINEER
*UGI REFERENCE NO. 6357			

SUBSURFACE INFORMATION

TEST BORINGS HAVE BEEN OBTAINED BY THE PROFESSIONAL FOR DESIGN PURPOSES ONLY. TEST BORING LOCATIONS ARE SHOWN ON THE DRAWINGS. THE TEST BORING LOGS MAY BE REVIEWED IN THE OFFICE OF THE PROFESSIONAL DURING NORMAL WORKING HOURS. THE ACCURACY OR COMPLETENESS OF THE SUBSURFACE INFORMATION IS NOT GUARANTEED BY THE DEPARTMENT OF PROFESSIONAL AND IT IS NOT TO BE CONSIDERED PART OF THE CONTRACT PLANS OR SPECIFICATIONS.

EROSION CONTROL

Natural surface water shall be diverted away from the work area. Diversion channels shall be constructed up-grade of work area as required to convey tributary runoff around and beyond the outer limits of the area subject to earth moving, demolition or other construction activities. Interception channels and erosion checks shall be constructed within the project area as required to control the discharge of sediment due to construction activities.

Earth moving activities shall be planned to minimize the areal extent and the duration of exposure of disturbed land.

Surfaces of cut and embankment slopes, ditches, swales, earth stockpiles, and areas denuded of top soil shall be stabilized to minimize surface erosion as soon as possible after exposure. Whether temporary or permanent, such surfaces shall not be left unstabilized for more than twenty (20) days after exposure.

If at any time, it is anticipated that work on any segment of the project will be halted for more than 20 days, the area bared shall be protected from erosion by seeding with annual ryegrass at the rate of 20 lbs. per acre, by mulching as described in Section 15.2C of the Standard Specifications, or by other approved methods. When work is resumed, all temporary protective matter shall be removed at no additional cost to the Department.

All surface runoff from an excavated area and all discharge resulting from the de-watering of excavations shall be collected and diverted to facilities for removal of sediment. Sedimentation traps shall consist of a small excavated storage area without special inlet and outlet controls. When the accumulation of sediment in the sedimentation trap has reached a point of 1/3 of depth of the sediment trap, the sediment will be removed and disposed of in areas where further erosion will not occur. The removal of the sediment will be done in such a manner so as not to damage the sedimentation trap. The removal of the sedimentation trap and restoration of the area shall be conducted at the completion of construction and/or as directed by the Engineer.

Erosion checks shall be standard 16" deep and 14" wide rectangular baled hay or straw and shall be placed and securely staked with wooden stakes or #6 reinforced bars. Bales shall be removed or replaced when necessary as directed by the Department.

Immediately upon completion of any segment of the project, that segment shall be seeded as shown on the Drawings and in conformance with Section 15 of the Standard Specifications. If completion occurs at a time when seeding would be unsatisfactory, temporary seeding may be applied at half the rate specified for permanent seeding with the remaining half applied when satisfactory seeding can be achieved.

GENERAL NOTES

MATERIALS AND WORKMANSHIP

WHERE EVER ANY FEATURE OF THE WORK IS NOT FULLY SHOWN OR DESCRIBED BY THESE DRAWINGS OR IN THE SPECIFICATIONS, THE WORK SHALL BE GOVERNED BY THE RULES OF THE BEST PREVAILING PRACTICE FOR THAT CLASS OF WORK AS DETERMINED BY THE ENGINEER.

CONCRETE STRUCTURES

REINFORCING BARS SHALL BE INTERMEDIATE GRADE STEEL CONFORMING TO ASTM A-615.

MINIMUM BAR LAP SHALL BE 30 DIAMETERS OF THE SMALLER BAR UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 1" x 1" UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

STANDARD DRAWINGS

EXCEPT WHERE SHOWN OTHERWISE THE FOLLOWING WORK SHALL BE IN ACCORDANCE WITH THE NOTED PENN DOT STANDARD DRAWINGS FOR ROADWAY CONSTRUCTION.

RIGHT OF WAY FENCE, - RC 60 \*  
MANHOLES, TYPE 2 - RC 39

\* PENN-DOT R/W FENCE RELOCATIONS

*PENN-DOT R/W FENCE SHALL BE REPLACED IN KIND. ALL OTHER FENCE SHALL BE CHAIN-LINK WITH A 48 INCH FABRIC WIDTH. MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 23 OF THE STANDARD SPECIFICATIONS.*

ABBREVIATIONS

L.R.	LEGISLATIVE ROUTE
M.L.	MATCH LINE
CL	CENTERLINE
BL	BASE LINE
PL	PROPERTY LINE
P.I.	POINT OF INTERSECTION
Δ	DEFLECTION ANGLE
D	DEGREE OF CURVE
T	TANGENT
L	LENGTH
R	RADIUS
E	EXTERNAL
P.C.	POINT OF CURVE
P.T.	POINT OF TANGENT
G-000.00	PROFILE GRADE
P.V.I.	POINT OF VERTICAL INTERSECTION
P.V.C.	POINT OF VERTICAL CURVE
P.V.T.	POINT OF VERTICAL TANGENT
B	BOTTOM
B.FTG.	BOTTOM OF FOOTING
C/C - C.C.	CENTER TO CENTER
CLR.	CLEAR
CONC.	CONCRETE
CONST.	CONSTRUCTION
COR.	CORNER
Ø	DIAMETER
DIM.	DIMENSION
DWLS.	DOWELS
DWG.	DRAWING
EA.	EACH
E.F.	EACH FACE
E.S.	EACH SIDE
E.W.	EACH WAY
EL. ELEV.	ELEVATION
EQ. SPA.	EQUAL SPACES
EXP.	EXPANSION
FIN.	FINISH
GRND.	GROUND
H.	HORIZONTAL
INCL.	INCLUDING
INV.	INVERT
JT.	JOINT
MAX.	MAXIMUM
MIN.	MINIMUM
NOM.	NOMINAL
O.C.	ON CENTER
PVC	POLYVINYL CHLORIDE
QTR.	QUARTER
RND.	ROUND
SECT.	SECTION
STD.	STANDARD
STA.	STATION
T	TOP
TRANS.	TRANSITION
TYP.	TYPICAL
V	VERTICAL
WWF	WELDED WIRE FABRIC
O. H.	OVERHEAD

SYMBOLS

	CONSTRUCTION CENTERLINE
	PROPERTY LINE
	LIMIT OF CONTRACTOR'S WORKING AREA
	ACCESS FOR CONSTRUCTION
	LIMIT OF GRADING
	RIP RAP
	SURVEY CONTROL POINTS
	LIMIT OF BREAKER WASTE
	EXISTING STREAM
	FENCE
	EXISTING SANITARY SEWER
	CHAIN LINK FENCE
	GUARD RAIL
	MANHOLE
	POINT OF INTERSECTION
	POINT OF CURVE & POINT OF TANGENT
	REINFORCED CONCRETE PIPE
	EXPLORATORY BORING LOCATION
	ROCK
	EARTH COVER

NO.	DATE	REVISION	APPR.
SUBMITTED			
PROFESSIONAL			
APPROVED			
CHIEF - DIVISION OF MINE RECLAMATION			
APPROVED			
DIRECTOR - BUREAU OF DESIGN			
<b>FINAL</b>		GEO - Technical Services	
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COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES OFFICE OF RESOURCES MANAGEMENT			
CONTRACT NO. SL 181-3-101.1			
SUGAR NOTCH RUN AMD ABATEMENT PROJECT WARRIOR CREEK AND SOLOMON CREEK WATERSHEDS LUZERNE COUNTY, PENNA.			
<b>NOTES, SYMBOLS &amp; ABBREVIATIONS</b>			
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SJM	APRIL 1975	3 of 40	
CHECKED BY	SCALE		
SJM	As Shown		