COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF MILITARY AND VETERANS' AFFAIRS

ANNVILLE, PENNSYLVANIA

JOSH SHAPIRO, GOVERNOR

MAJOR GENERAL MARK J. SHINDLER, THE ADJUTANT GENERAL

PROJECT NO.: 42210120/42220033

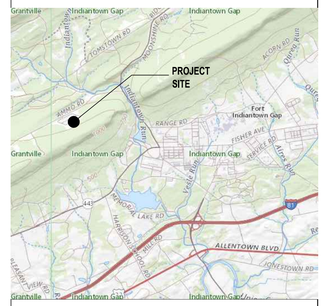
ASP FENCE, E&S, STORMWATER REPAIR
PHASE 1
TRAINING CORRIDOR, FT. INDIANTOWN GAP
EAST HANOVER TOWNSHIP, LEBANON COUNTY, PENNSYLVANIA

DESIGN PROFESSIONALS:
OFFICE OF FACILITIES AND ENGINEERING
BUREAU OF DESIGN AND PROJECT MANAGEMENT
BUILBING 0-10, CHAPEL ROAD, FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

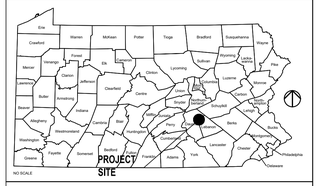
INDEX TO DRAWINGS

1. THE CONTRACTOR IS REQUIRED TO SUBMIT A REQUEST FOR A DIGGING PERMIT, THROUGH THE DIVISION OF INSTALLATION MANAGEMENT (DIM), BUILDING 11-64, 10 DAYS PRIOR TO CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO THE START OF WORK AND INCLUDE THESE MARKING LOCATIONS ON THE AS-BUILT DRAWINGS. THE CONTRACTOR WILL COORDINATE WITH THE DIM (BLDG. 11-64) IN THE VERIFICATION OF THE EXISTING UTILITIES.
2. THE CONTRACTOR WILL PROVIDE 3 DAY NOTICE PRIOR TO ALL UTILITY CONNECTIONS. THE CONTRACTOR WILL NOTIFY DIM UPON COMPLETION OF THE CONNECTIONS, BUT PRIOR TO BACKFILLING. THE CONTRACTOR WILL NOT BACKFILL ANY UTILITY CONNECTIONS UNTIL DIM INSPECTS AND APPROVES THE WORK.
3. DRAWING PREPARED FROM FIELD SURVEY AND LIDAR INFORMATION PASDA 2023. SURVEY DATUM NAD 83, STATE PLAN COORDINATE SYSTEM - SOUTH ZONE.
4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXISTING GRADES AND SURVEY/LAYOUT OF NEW CONSTRUCTION.
5. THE CONTRACTOR(S) IS RESPONSIBLE TO REPAIR ANY DAMAGE TO FACILITIES, INFRASTRUCTURE, PAVEMENT OR OTHER EXISTING FEATURES NOT CALLED OUT WITHIN THE THE CONTRACT DOCUMENTS TO BE DEMOLISHED, REPAIRED, OR REPLACED.
6. REMAINING TREE REMOVAL AND GRUBBING WILL BE REQUIRED TO BE DONE BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO DISPOSE OF ALL DEMOLISHED CONSTRUCTION MATERIALS OFF SITE TO AN APPROVED DISPOSAL LOCATION. EXCESS TOPSOIL AND FILL MAY BE DISPOSED OF AT THE MOLE MOUNTAIN SITE WITHIN THE TRAINING CORRIDOR (WITHIN 3 MILES OF THE SITE).

CALL BEFORE YOU DIG!
PENNSYLVANIA LAW REQUIRES
3 WORKING DAYS NOTICE FOR
CONSTRUCTION PHASE AND 10 WORKING
DAYS IN DESIGN STAGE – STOP CALL
Pennsylvania One Call System, Inc
1-800-242-1776



PROJECT LOCATION MAP



VICINITY MAP

NO.	DESCRIPTION	DATE

REVISIONS

Professional's Signature Date Professional's Signature Date

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ASP FENCE, E&S, SW REPAIR
PHASE 1
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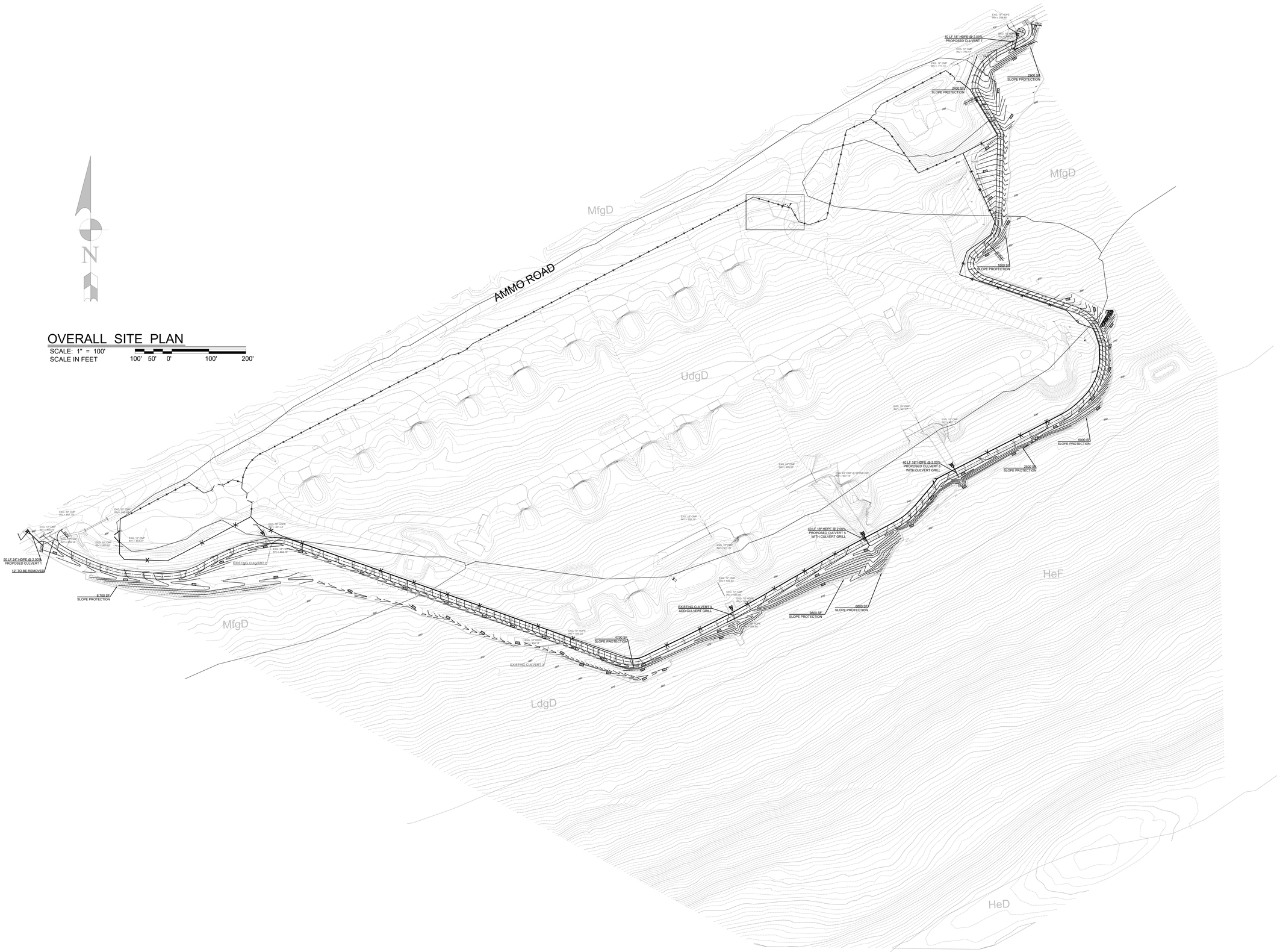
COVER SHEET

DRAWN BY	DATE	DRAWING NO.
D. STERNER	30 NOV 2023	G.1.1
CHECKED BY	SCALE	
K. LLOYD	AS NOTED	



OVERALL SITE PLAN

SCALE: 1" = 100'
SCALE IN FEET 100' 50' 0' 100' 200'

SITE / CIVIL LEGEND

- 890 / 870 — EXISTING CONTOUR LINE / PROPOSED CONTOUR LINE
- STORM SEWER
- WATER VALVE
- MANHOLE
- ELECTRIC - OVERHEAD
- FENCELINE
- POLE MOUNTED AREA LIGHTING
- STORM INLET
- BOLLARD
- FIRE HYDRANT
- 447.75 — SPOT ELEVATION
- BENCHMARK — BENCHMARK ELEVATION
- FLOW ARROW
- UTILITY POLE
- SOIL BOUNDRY
- MfgD — SOIL TYPE
- MAXIMUM LIMIT OF DISTURBANCE

NO.	DESCRIPTION	DATE
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TRAINING CORRIDOR
EAST HANOVER TWP, LEBANON COUNTY, PENNSYLVANIA

OVERALL SITE PLAN

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

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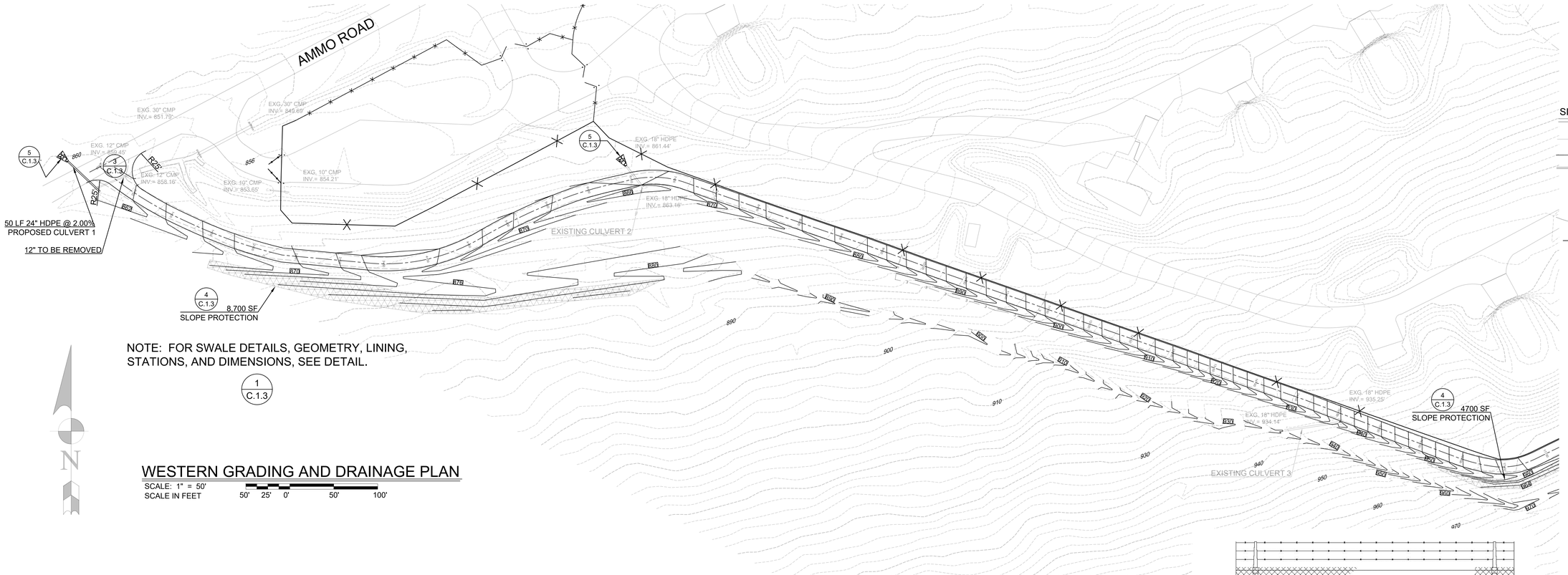
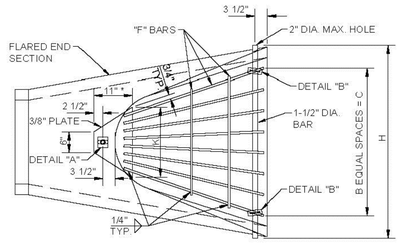
CHECKED BY	SCALE	
K. LLOYD	1"= 100'	

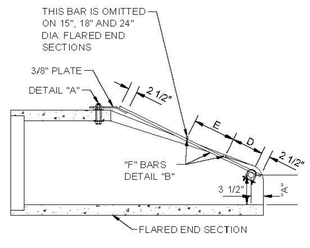


WESTERN GRADING AND DRAINAGE PLAN

SCALE: 1" = 50'
SCALE IN FEET 50' 25' 0' 50' 100'



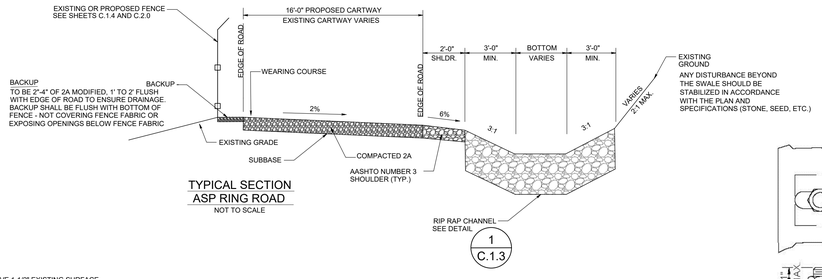
PLAN



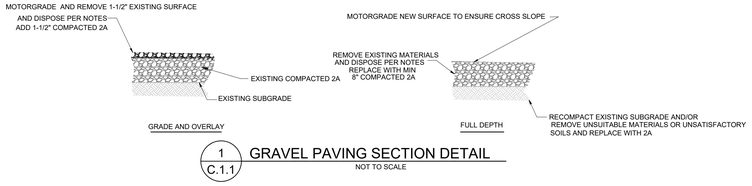
SECTION

2 C.1.1 ° CONCRETE FLARED END SECTION BAR GRATE
NOT TO SCALE

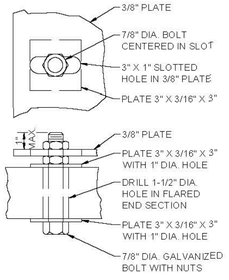
3 C.1.1 ° SWALE CROSSING WITH GROUND STAKES
NOT TO SCALE



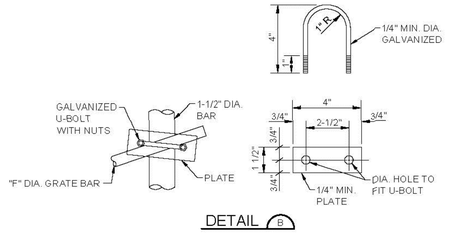
TYPICAL SECTION
ASP RING ROAD
NOT TO SCALE



1 C.1.1 GRAVEL PAVING SECTION DETAIL
NOT TO SCALE



DETAIL A

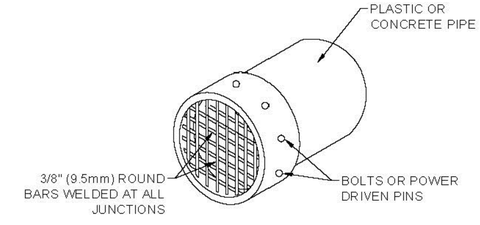


DETAIL B

BAR GRATE DIMENSIONS									
PIPE DIAMETER	*A	B	C	D	E	"F" BARS	**G	H	K
15"	5"	4	2'-0"	6"	----	NO. 5	6"	2'-11"	1'-4"
18"	8"	5	2'-6"	6"	----	NO. 5	8"	3'-6"	1'-4"
24"	8-1/2"	7	3'-6"	9"	----	NO. 5	8"	4'-7"	1'-8"
30"	11"	9	4'-6"	12"	1'-6"	NO. 5	12"	5'-8"	1'-8"
36"	14"	11	5'-6"	12"	1'-6"	NO. 6	12"	6'-9"	2'-0"
42"	9"	12	6'-0"	12"	1'-6"	NO. 8	9"	7'-4"	2'-0"
48"	9"	12	6'-0"	12"	1'-6"	NO. 8	9"	7'-11"	2'-0"

* CONCRETE SECTIONS ONLY ** STEEL SECTIONS ONLY

NOTES:
1. ALL STEEL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 575 GRADE 1020 STEEL.
2. BAR GRATES SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A 123.



4 C.1.1 PLASTIC OR CONCRETE CULVERT GRILL
NOT TO SCALE

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0 1
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WESTERN PLAN & DETAILS

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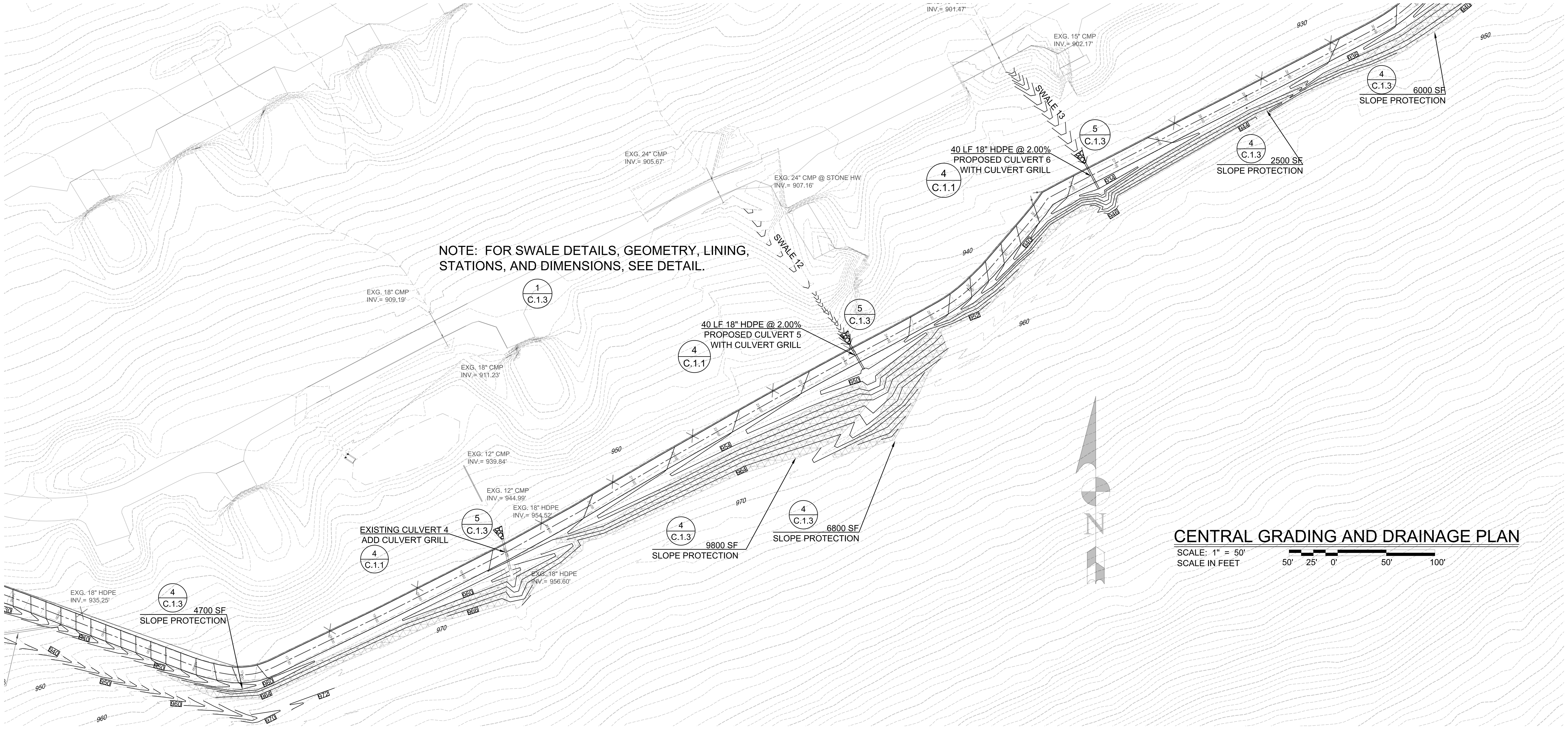
K. LLOYD	1"= 50'	



CENTRAL GRADING AND DRAINAGE PLAN

SITE / CIVIL LEGEND

- 890 — EXISTING CONTOUR LINE
- 870 — PROPOSED CONTOUR LINE
- STORM SEWER
- WATER VALVE
- MANHOLE
- ELECTRIC - OVERHEAD
- FENCELINE
- POLE MOUNTED AREA LIGHTING
- STORM INLET
- BOLLARD
- FIRE HYDRANT
- 447.75 — SPOT ELEVATION
- BENCHMARK — BENCHMARK ELEVATION
- FLOW ARROW
- UTILITY POLE

E&S NOTES

1-0 GENERAL NOTES

1. Before implementing any revisions to the approved erosion and sediment control plan or revisions to other plans which may affect the effectiveness of the approved E&S control plan, the contractor receive written approval of the revisions.

2. The contractor shall remove from the site, recycle or dispose of all waste materials (tree stumps, brush etc.) in accordance with the Department's Solid Waste Management Regulations at 25 PA Code 260.1 et seq., 271.1 e. seq. and 287.1 et seq.

3. Only limited disturbance will be permitted to provide access to construct construction BMPs.

4. Erosion and sedimentation controls must be constructed, stabilized, and functional before site disturbance within the tributary areas of those controls.

5. After final site stabilization has been achieved, temporary erosion and sedimentation controls must be removed. Areas disturbed during removal of the controls must be stabilized immediately.

6. At the end of each working day, any sediment tracked or conveyed onto Ammo Road will be removed and redeposited onto the construction site. Removal can be completed through use of mechanical or hand tools, but must never be washed off the road by use of water.

7. Sediment removed from E&SPC controls & facilities shall be disposed of in landscaped areas outside of steep slopes, wetlands, floodplains or drainage swales and immediately stabilized, or placed in topsoil stockpiles.

8. All pumping of sediment laden water shall be through a dirt bag filtration device, or equivalent sediment removal facility, over non-disturbed vegetated areas. Discharge points should be established to provide for maximum distance to active waterways.

9. Should unforeseen erosive conditions develop during construction, the contractor shall take immediate action to remedy such conditions and to prevent damage to adjacent properties as a result of increased runoff and/or sediment displacement. Stockpiles of wood chips, hay bales, crushed stone and other mulches shall be held in readiness to deal immediately with emergency problems of erosion.

10. The contractor is advised to become thoroughly familiar with the provisions of the Appendix 64, Erosion Control Rules and Regulations, Title 25, Part 1, Department of environmental Protection, Subpart C, Protection of Natural Resources, Article III, Water Resources, Chapter 102, Erosion Control.

11. A copy of this erosion and sedimentation control plan must be kept at the construction site.

12. Failure to correctly install sediment control facilities **or** failure to prevent sediment laden runoff from leaving the construction site **or** failure to take corrective actions to immediately resolve failures of sediment control facilities may result in administrative, civil and/or criminal penalties being instituted by the Pennsylvania Department of Environmental Protection as defined in Section 602 of the Clean Streams Law of Pennsylvania. The Clean Streams Law provides for up to $10,000 per day in civil penalties, up to $10,000 in summary criminal penalties, and up to $25,000 in misdemeanor criminal penalties for each violation.

2-0 STABILIZATION NOTES

1. Stockpile heights must not exceed 35'. Stockpile slopes must be 2:1 or flatter.

2. Upon completion of an earth disturbance activity or any stage or phase of an activity, the contractor shall stabilize immediately the disturbed areas to protect from accelerated erosion. During non-germinating periods, mulch must be applied at the specified rates. Disturbed areas which are not at finished grade and which will be redisturbed within 1 year may be stabilized in accordance with temporary seeding specifications. Disturbed areas, which are either at finished grade or will not be redisturbed within 1 year, must be stabilized in accordance with permanent seeding specifications.

3. Stockpiles must be stabilized immediately.

4. Hay or straw mulch must be applied at rates of at least 3.0 tons per acre.

5. Until the site has achieved final stabilization the contractor shall properly implement, operate and maintain all the best management practices. Maintenance shall include inspections of all erosion and sedimentation control after each runoff event and on a weekly basis. All preventative and remedial maintenance work, including clean out, repair, replacement, regrading, reseeding, remulching, and renetting, must be performed immediately.

6. An area shall be considered to have achieved final stabilization when it has a minimum uniform 70% perennial vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated surface erosion and subsurface characteristics sufficient to resist sliding or other movements.

7. Erosion control blankets must be installed on all slopes greater than 3:1.

2-1 COMPOST FILTER SOCK

1. Compost sock should be placed parallel to contours with both ends of the sock extended upslope at a 45 degree angle to the rest of the sock to prevent end-arounds.

2. Socks placed on earthen slopes should be anchored with stakes driven through the center of the sock or immediately down slope of the sock as per detail.

3. Any section of compost sock, which has been undermined or topped, must be immediately replaced.

3-0 CONSTRUCTION SEQUENCE NOTES

1. All earth disturbance activities shall proceed in accordance with the following sequence. Each stage shall be completed in compliance with Chapter 102 regulations before any following stage is initiated. Clearing and grubbing shall be limited only to those areas described in each stage.

2. Flag the limit of disturbance.

3. Install construction entrance and install compost filter sock as per plan.

4. Mobilize construction equipment.

5. Clear and grub the site within the limits of disturbance.Only clear areas proposed for work - do not clear entire site.

6. Strip topsoil and stockpile and stabilize. Strip and replace topsoil (and stabilize) as work progresses.

7. Install swales, grade roadway, fencing, gates, bollards and other site improvements. immediately stabilize swales as work progresses. Install drainage pipes, place subbase and stone pave roadway.

8. Install main gate area - coordinate construction with electrical. Grade area, install fencing, bollards, and patch pave driveway.

9. After site is stabilized , remove temporary BMP's and stabilize.

4.0 GROUND COVER

4.1 Temporary Seeding

1. All grass areas disturbed by the work of this Project shall be seeded as follows:

2. Temporary seeding shall be done in areas where active work will not be performed for twenty days (20). Temporary seeding shall be done immediately after work ceases.

3. Apply agricultural lime and fertilizer as follows for temporary seeding:

   3.1. Agricultural Lime -- 50 pounds per 1,000 square feet
   3.2. Fertilizer -- 12 pounds per 1,000 square feet

4. Fertilizer shall be a commercial type 10-20-20.

5. Temporary seed mixture Annual Ryegrass -- 1 pound per 1,000 square feet.

6. All temporary seeding shall be mulched. Temporary seeding shall be watered as required to develop cover.

7. Mulch shall be straw, shall be clean and free from noxious weeds, and shall be applied at the rate of 140 pounds per 1,000 square feet.

4.2 Permanent Seeding

1. Permanent seeding shall take place in all disturbed areas as follows:

2. **Fertilization:** The following shall be spread and worked into the topsoil to a depth of 3 to 4 inches.

   2.1. Agricultural Lime - 275 pounds per 1,000 square feet
   2.2. Fertilizer - 25 pounds per 1,000 square feet

3. The fertilizer shall be a commercial type 10-20-20.

4. **Note:** If agricultural lime and fertilizer have been applied previously to the ground where the permanent seed is to be applied, the lime and fertilizer rates shall be reduced by the amount by what has been applied previously.

5. **Permanent Seed Mixture:** The following seed mixtures shall be applied as follows:

6. **FTIG ITAM Mix (requires proper legume inoculants)**
   6.1. 10% Annual Ryegrass
   6.2. 25% Perennial Regrass
   6.3. 20% Medium Ryegrass
   6.4. 10% White Ladino Clover
   6.5. 10% White Dutch Clover
   6.6. 10% Vernal Alfalfa
   6.7. 10% Norcen Birdsfoot Trefoil
   6.8. 5% Crimson

7. **PENNDOT Formula L Low Grow Mix**
   7.1. 35% Creeping Red Fescue
   7.2. 27.5% Defiant Hard Fescue
   7.3. 27.5% Stonehenge Fescue
   7.4. 10% Annual Ryegrass

8. **FTIG Legume Mix(plant with Low Grow at rate 10#/acre, requires inoculant)**
   8.1. 20% White Ladino Clover
   8.2. 10% Medium Red Clover
   8.3. 10% Mammoth Red Clover
   8.4. 10% White Dutch Clover
   8.5. 10% Alsike Clover
   8.6. 20% Vernal Alfalfa
   8.7. 10% Norcen Birdsfoot Trefoil
   8.8. 10% Crimson Clover
   8.9. *All mixtures given above are for PLS - Pure Live Seed 100%. To calculate PLS, the percentage of pure seed is multiplied by the percentage of germination, and the product is divided by 100. (85% pure seed x 72% germination) divided by 100 = 61% PLS. To determine how much seed to plant, divide the percentage into 100. Example: 100 divided by 61 = 1.63. Thus, every pound of seed mixture called for should then be 1.63 lbs.

9. **Mulch:** Apply mulch to all permanently seeded areas.
   9.1. Materials: Straw, air-dried and free from undesirable seeds and course materials. Application: 140 pounds per 1,000 square feet.

5.0 MAINTENANCE PROGRAM

5.1 Emergency Erosion Protection

1. If erosion does occur, the contractor shall repair and reseed those areas or use other stabilization methods as required. The contractor shall use jute, wood fiber, or other tie down filter netting on top of the new seed as required, regardless of the slope of the land.

2. Mulched areas shall be checked weekly and immediately after severe storms for damage, until the mulching is no longer necessary for protection against erosion. Damaged portions of the mulch or tie down materials shall be repaired as soon as discovered.

5.2 Periodic Inspection Program

1. The contractor will regularly inspect the Project's erosion and sedimentation controls during the entire active construction stages. The inspections will be performed weekly or after all runoff events and the inspections shall be documented and records of repairs keep on site. The contractor will be responsible for the installation, operation, maintenance, and removal of all erosion and sedimentation controls. All preventative and remedial maintenance work, including clean out repair, replacement, regrading, reseeding, remulching, and renetting must be performed immediately. Sediment that has been trapped by the silt soxx will be removed as required, and in all cases, before the accumulation has reached half the height of the BMP. Compost filter sock will be re-anchored, repaired, or replaced as necessary. All other controls will be inspected on the same schedule. If erosion and sediment control BMPs fail to perform as expected, replacement BMPs, or modification of those installed will be required.

5.3 Removal of Controls and Continuing Maintenance

1. All required temporary erosion and sedimentation controls shall remain in place and be maintained until the area they protect has been stabilized.

2. An area shall be considered to have achieved final stabilization when it has a minimum uniform 70% perennial vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated surface erosion and subsurface characteristics sufficient to resist sliding or other movements.

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CENTRAL PLAN & NOTES

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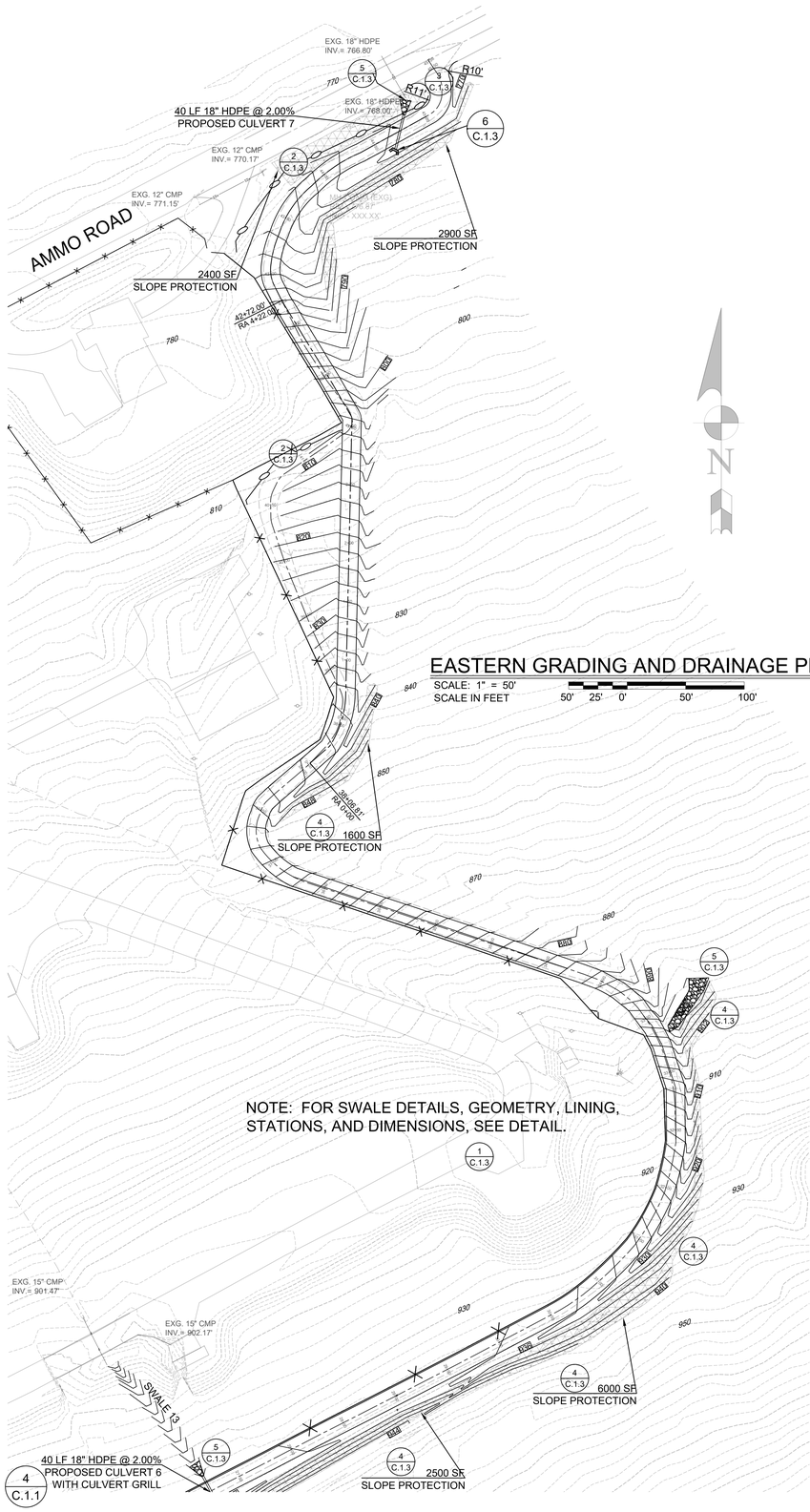
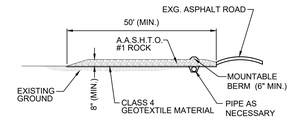
CHECKED BY	SCALE	
K. LLOYD	1"= 50'	

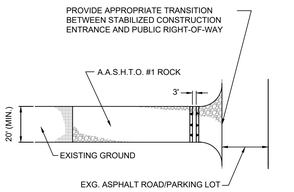


EASTERN GRADING AND DRAINAGE PLAN

SCALE: 1" = 50'
SCALE IN FEET 50' 25' 0' 50' 100'



PROFILE



PLAN

** MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE. **

VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY TO NOR EXIT DIRECTLY FROM THE SITE WITHOUT PASSING THRU A ROCK CONSTRUCTION ENTRANCE.

REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

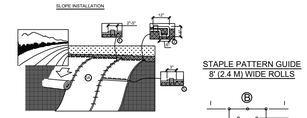
MAINTENANCE:

ROCK CONSTRUCTION ENTRANCE THICKNESS WILL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL WILL BE MAINTAINED ON THE SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50' INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITIS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

3 C.1.3 CONSTRUCTION ENTRANCE

SITE / CIVIL LEGEND

- 890 / 870 — EXISTING CONTOUR LINE / PROPOSED CONTOUR LINE
- STORM SEWER
- WATER VALVE
- MANHOLE
- ELECTRIC - OVERHEAD
- FENCELINE
- POLE MOUNTED AREA LIGHTING
- STORM INLET
- BOLLARD
- FIRE HYDRANT
- 447.75 — SPOT ELEVATION
- BENCHMARK — BENCHMARK ELEVATION
- FLOW ARROW
- UTILITY POLE
- FILTER SOCK 18"



NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

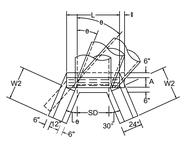
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH.
BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP's.

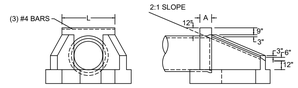
3. ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM , STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP's TYPE.

5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP's WIDTH.

NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.





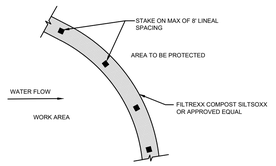
NOTE: SEE TABLE A ON PENNDOT RC-31M FOR SPECIFIC DIMENSIONS FOR CULVERT SIZE.

4 C.1.3 SLOPE PROTECTION

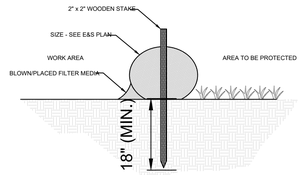
NOTE: TO BE USED ON ALL SLOPES 3:1 OR STEEPER
NAG S150 OR EQUAL
weed free agricultural straw matrix mechanically stitched on two-inch centers between two photodegradable, synthetic nets.

6 C.1.3 TYPE D-W ENDWALL (REF. PADOT RC-31M)

N.T.S.



PLAN

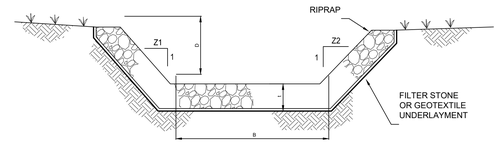


SECTION

MAINTENANCE NOTES:

1. THE CONTRACTOR/UNIT SHALL MAINTAIN THE SEDIMENT CONTROL IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED.
2. IF THE SEDIMENT CONTROL HAS BEEN DAMAGED, IT SHALL BE REPAIRED, OR REPLACED IF BEYOND REPAIR.
3. THE CONTRACTOR/UNIT SHALL REMOVE SEDIMENT AT THE BASE OF THE UPSLOPE SIDE OF THE SEDIMENT CONTROL WHEN ACCUMULATION HAS REACHED ½ OF THE EFFECTIVE HEIGHT OF THE SEDIMENT CONTROL, OR AS DIRECTED BY THE ENGINEER. ALTERNATIVELY, A NEW SEDIMENT CONTROL CAN BE PLACED ON TOP OF AND SLIGHTLY BEHIND THE ORIGINAL ONE CREATING MORE SEDIMENT STORAGE CAPACITY WITHOUT SOIL DISTURBANCE.
4. SEDIMENT CONTROL SHALL BE MAINTAINED UNTIL DISTURBED AREA ABOVE THE DEVICE HAS BEEN PERMANENTLY STABILIZED AND CONSTRUCTION ACTIVITY HAS CEASED.
5. THE FILTERMEDIA WILL BE DISPERSED ON SITE ONCE DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED, CONSTRUCTION ACTIVITY HAS CEASED, OR AS DETERMINED BY THE ENGINEER.
6. FOR LONG-TERM SEDIMENT AND POLLUTION CONTROL APPLICATIONS, SEDIMENT CONTROL CAN BE SEEDED AT THE TIME OF INSTALLATION TO CREATED A VEGETATIVE FILTERING SYSTEM FOR PROLONGED AND INCREASED FILTRATION OF SEDIMENT AND SOLUBLE POLLUTANTS (CONTAINED VEGETATIVE FILTER STRIP). THE APPROPRIATE SEED MIX SHALL BE DETERMINED BY THE ENGINEER.

2 C.1.3 EROSION FILTER SOXX



(LOOKING DOWNSTREAM)

1 C.1.3 CHANNEL CROSS-SECTION

CHANNEL NO.	STATIONS	BOTTOM WIDTH B (FT)	DEPTH D (FT)	Z1 (FT)	Z2 (FT)	RIPRAP GRADATION (R-__)	RIPRAP DEPTH t (IN)	UNDERLAYMENT	UNDER-LAYMENT THICKNESS
3A	15+03 12'R to 18+15 13'R	1	1	3	3	R-4	18	AASHTO#3	4"
1E	14+60 44'R to 17+49 47'R	1	1	2	2	R-4	18	AASHTO#3	4"
1D	11+15 63'R to 14+60 44'R	1	1	2	2	R-5	27	AASHTO#3	4"
1C	8+05 76'R to 11+15 63'R	1	1	2	2	R-4	18	AASHTO#3 *	4"
1B	3+65 26'R to 8+05 76'R	4	1.1	2	2	R-4	18	AASHTO#3 *	4"
1A	0+13 28'R to 3+65 25'R	2	1.1	3	3	R-4	18	AASHTO#3 *	4"
2C	9+69 13'R to 15+03 12'R	1	1	3	3	R-5	27	AASHTO#3	4"
2B	6+58 13'R to 9+69 13'R	2	1	3	3	R-4	18	AASHTO#3 *	4"
2A	3+65 13'R to 6+58 13'R	1	1	3	3	R-4	18	AASHTO#3 *	4"
4A	18+15 13'R to 24+04 24'R	1	1	3	3	R-4	18	AASHTO#57 *	2"
4B	24+17 24'R to 24+86 15'R	1	1	3	3	R-4	18	AASHTO#57 *	2"
4C	24+04 to 24+17 PERPENDICULAR	1	1	2	2	R-4	18	AASHTO#3	4"
5A	20+66 13'R to 24+11 22'R	1	1	3	3	R-4	18	AASHTO#57 *	2"
5B	24+11 12'R to 24+88 15'R	1	1	3	3	R-4	18	AASHTO#57 *	2"
5C	23+19 75'R to 24+04 49'R	1	1	2	2	R-4	18	AASHTO#57 *	2"
5D	24+04 to 24+17 PERPENDICULAR	1	1	2	2	R-4	18	AASHTO#57 *	2"
6A	24+58 12'R to 27+21 17'R	1	1	3	3	R-4	18	AASHTO#57 *	2"
6B	27+21 17'R to 28+96 12'R	1	1	3	3	R-4	18	AASHTO#57 *	2"
6C	27+16 to 27+25 PERPENDICULAR	1	1	2	2	R-4	18	AASHTO#57 *	2"
7A	31+50 12'R to 33+40 15'R	1	1	3	3	R-4	18	AASHTO#3	4"
7B	29+00 12'R to 31+50 12'R	1	1	3	3	R-4	18	AASHTO#57 *	2"
7C	29+10 25'R to 29+70 15'R	1	1	2	2	R-4	18	AASHTO#3	4"
8	33+40 12'R to 34+50 20'R	2	1	3	3	R-5	18	AASHTO#3	4"
9	37+40 12'R to RA 0+70 13'R	1	1	3	3	R-4	18	AASHTO#3 *	4"
10	RA 0+70 13'R to RA 3+20 15'R	2	1	3	3	R-5	27	AASHTO#3	4"
11	43+25 22'R to 45+40 16'R	4	1	3	3	R-4	18	AASHTO#3 *	4"
12	SEE PLAN C.1.2	2	1	3	3	R-5	27	AASHTO#3	4"
13	SEE PLAN C.1.2	2	1	3	3	R-5	27	AASHTO#3	4"

NOTES:

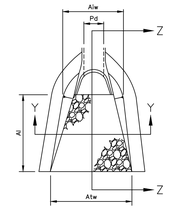
*FILTER STONE UNDERLAYMENT FOR BED SLOPES ≥ 0.10 FT/FT (10 %) SHALL BE USED. A SUITABLE GEOTEXTILE MAY BE SUBSTITUTED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS ON APPROVAL FOR BED SLOPES < 0.10 FT/FT.

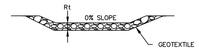
CHANNEL DIMENSIONS ARE FOR THE COMPLETED CHANNEL AFTER ROCK PLACEMENT. CHANNEL MUST BE OVER-EXCAVATED A SUFFICIENT AMOUNT TO ALLOW FOR THE VOLUME OF ROCK PLACED WITHIN THE CHANNEL WHILE PROVIDING THE SPECIFIED FINISHED DIMENSIONS.

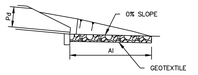
CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE.

DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

THE MINIMUM ROCK THICKNESS (t) SHALL BE 1.5 TIMES THE MAX ROCK SIZE.







OUTLET NO.	PIPE DIA Pd (IN)	RIPRAP SIZE R-__	RIPRAP THICK. Rt (IN)	APRON LENGTH Al (FT)	APRON INITIAL WIDTH Alw (FT)	APRON TERMINAL WIDTH Atw (FT)
1	24	5	27	12	6	18
2	18	5	27	10	6	15
4	18	5	27	10	6	15
5	18	5	27	10	6	15
6	18	5	27	10	6	15
SW 7A	SWALE	5	27	50	6	15
7	18	5	27	10	6	15

NOTES:

ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.

ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

5 C.1.3 RIP RAP APRON AT PIPE OUTLET/ENDWALL

NOT TO SCALE

NO.	DESCRIPTION	DATE
	REVISIONS	

Professional's Signature Date

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERAN'S AFFAIRS
ANNVILLE, PENNSYLVANIA 17003

DESIGN PROFESSIONALS:
OFFICE OF FACILITIES AND ENGINEERING
BUREAU OF DESIGN AND PROJECT MANAGEMENT
BLDG. 0-10, FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

PROJECT NO.: 42220033

ASP FENCE, E&S, SW REPAIR PHASE 1

TRAINING CORRIDOR, FT. INDIANTOWN GAP
EAST HANOVER TWP, LEBANON COUNTY, PENNSYLVANIA

EASTERN PLAN & DETAILS

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

DRAWN BY	DATE	DRAWING NO.
D. STERNER	30 NOV 2023	C.1.3
CHECKED BY	SCALE	
K. LLOYD	1"= 50'	

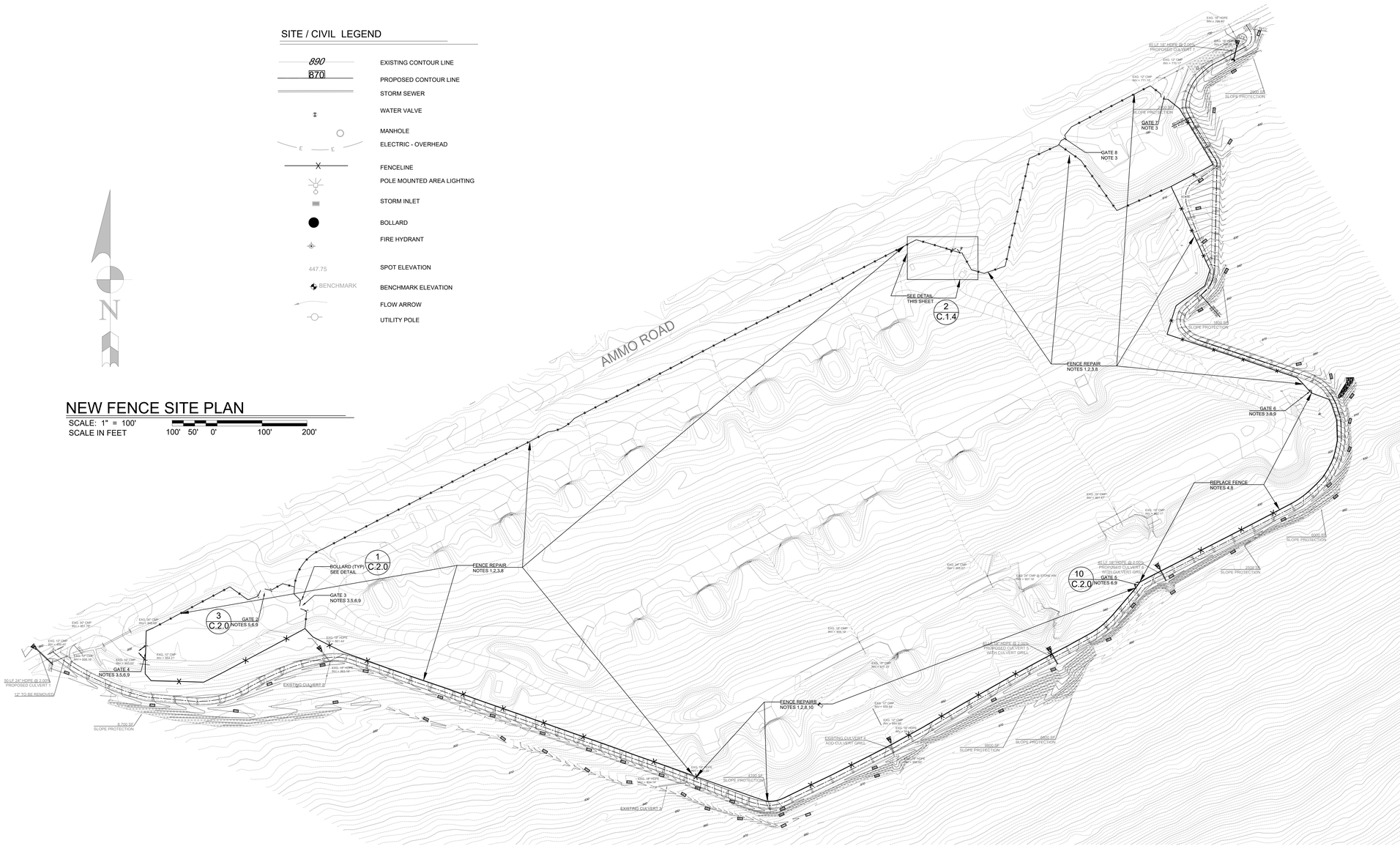
SITE / CIVIL LEGEND

- 890 / 870 — EXISTING CONTOUR LINE / PROPOSED CONTOUR LINE
- STORM SEWER
- WATER VALVE
- MANHOLE
- E — E — ELECTRIC - OVERHEAD
- X — FENCELINE
- POLE MOUNTED AREA LIGHTING
- STORM INLET
- BOLLARD
- FIRE HYDRANT
- 447.75 — SPOT ELEVATION
- BENCHMARK — BENCHMARK ELEVATION
- FLOW ARROW
- UTILITY POLE

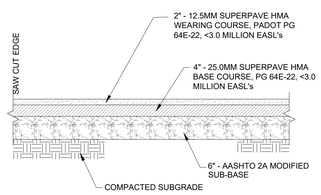
N

NEW FENCE SITE PLAN

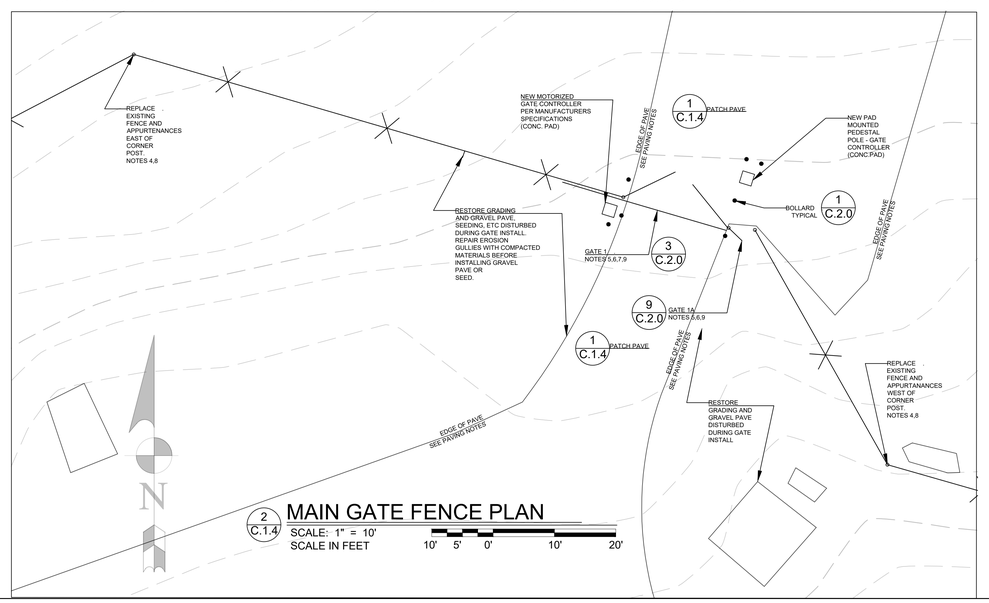
SCALE: 1" = 100'
SCALE IN FEET 100' 50' 0' 100' 200'



NOTE: SITE TO BE SECURED AT END OF EACH WORKDAY WITH PERMANENT OR ACCEPTABLE TEMPORARY FENCING. ACCEPTABLE TEMPORARY FENCING SHALL BE CHAIN LINK OF SAME HEIGHT AS ORIGINAL FENCING AND SECURED TO EXISTING OR NEW SECTIONS BY SECURE BANDING OR CHAIN AND PADLOCK.



1 C.1.4 BITUMINOUS PAVE AND PATCH DETAIL
NOT TO SCALE — ALSO SEE PAVING NOTES, THIS SHEET



2 C.1.4 MAIN GATE FENCE PLAN
SCALE: 1" = 10'
SCALE IN FEET 10' 5' 0' 10' 20'

Fencing Notes

1. Replace tie wires on all posts per Fastening Detail. Properly dispose of existing tie wires. (2 C.2.0)
2. Fasten extension arms on all posts per Extension Arm Detail. (2A C.2.0)
3. Three strand barbed wire to be replaced. Properly dispose of existing barbed wire.
4. Remove and install new fencing per details and specifications. Completely remove and properly dispose of existing fence posts & concrete bases, fence fabric, extension arms, barbed wire and all other existing fence components. Carefully remove all signs, store, and reinstall. (1A C.2.0)
5. Bollards shall be placed at gates and gate operator/controller per schedule and Gate Bollard Detail. Bollards shall not impede swing of gate to fully width of opening. (1 C.2.0)
6. Gates shall be modified or replaced per schedule and detail. Remove, store, and reinstall signs.
7. See Electrical drawing for gate number 1. The General Contractor, in coordination with the Electrical Contractor, will be responsible for all work associated with the install of the new motorized gate, motor sensors, and all other work associated with this install.
8. Fence shall be grounded per the Grounding Detail and UFGS 32 31 13.53 Section 3.8. (8 C.2.0)
9. Gates shall be grounded per the Grounding Detail, UFGS 32 31 13.53 Section 3.8, and manufacturer's recommendations.
10. Existing newer fence shall remain. Contractor shall take care when constructing in area of this fence. Contractor will be responsible for repair or replacement of damaged fence.

Paving Notes

1. The General Contractor, in coordination with the Electrical Contractor, will be responsible for all bituminous concrete paving and patching, to include installing any sub-base material required for said paving and patching. (1 C.1.4)
2. Saw cut clean edges, remove and dispose of existing bituminous concrete, sub-base, and sub-grade as necessary to install electrical conduit and components.
3. All trenching, backfilling, compacting of backfill, select fill and sub-grade materials will be in accordance with the Earthmoving specification. This applies to all contractors for this project.

General Notes

1. The General Contractor, in coordination with the Electrical Contractor, will be responsible for all restoration, grading, gravel pave, or seeding in the area of the main gate install. The General Contractor, will be responsible for all restoration, grading, gravel pave, or seeding on the fence and gate install.
2. The contractor(s) is responsible to repair any damage to facilities, infrastructure, pavement or other existing features not called out within the the contract documents to be demolished, repaired, or replaced.
3. The contractor is responsible to dispose of all demolished construction materials off site to an approved disposal location. Excess topsoil and fill may be disposed of at the Mole Mtn. site.

GATE SCHEDULE

No.	Existing Gate	Proposed Gate	Bollards	Motorized	Notes
1	Double Swing	20' Cantilever Slide	Yes-7	Yes	See Electrical
1A	Swing Man	Personnel Gate	No	No	
2	Double Swing	28' Double Swing	Yes-4	No	
3	Double Swing	N/A	Yes-4	No	Replace Wire
4	Double Swing	Repair and Reset Gates	Yes-4	No	
5	Double Swing	16' Double Swing	No	No	
6	Double Swing	N/A	No	No	Replace Wire
7	Double Swing	N/A	No	No	Replace Wire
8	Double Swing	N/A	No	No	Replace Wire

NO.	DESCRIPTION	DATE
	REVISIONS	

Professional's Signature Date

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERAN'S AFFAIRS
ANNVILLE, PENNSYLVANIA 17003

DESIGN PROFESSIONALS:
OFFICE OF FACILITIES AND ENGINEERING
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BLDG. 0-10, FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

PROJECT NO.: 42220033

ASP FENCE, E&S, SW REPAIR PHASE 1

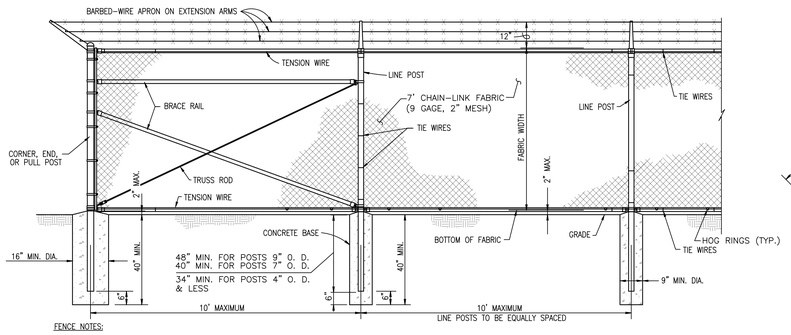
TRAINING CORRIDOR
EAST HANOVER TWP, LEBANON COUNTY, PENNSYLVANIA

FENCE PLAN

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

DRAWN BY	DATE	DRAWING NO.
D. STERNER	30 NOV 2023	C.1.4
CHECKED BY	SCALE	
K. LLOYD	1"= 100'	

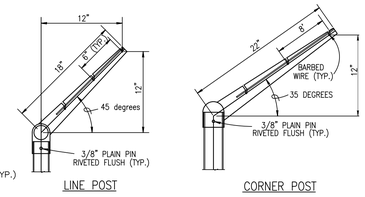


FENCE NOTES:

1. WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE OPPOSITE SIDE OF THE SECURE AREA.

1A C.2.0 CHAIN-LINK FENCE DETAIL

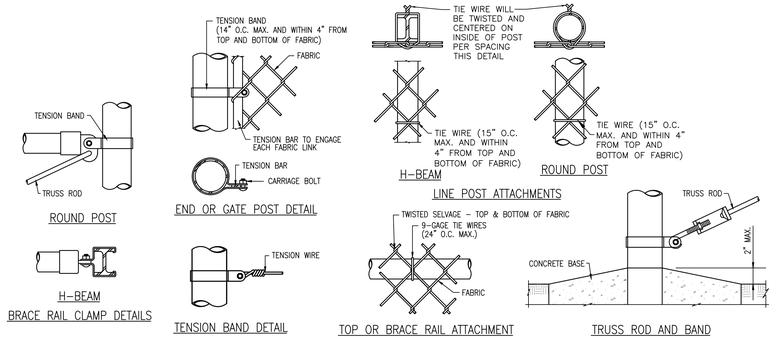
SCALE: N.T.S.



2A C.2.0 EXTENSION ARM (SINGLE BRACKET) DETAILS

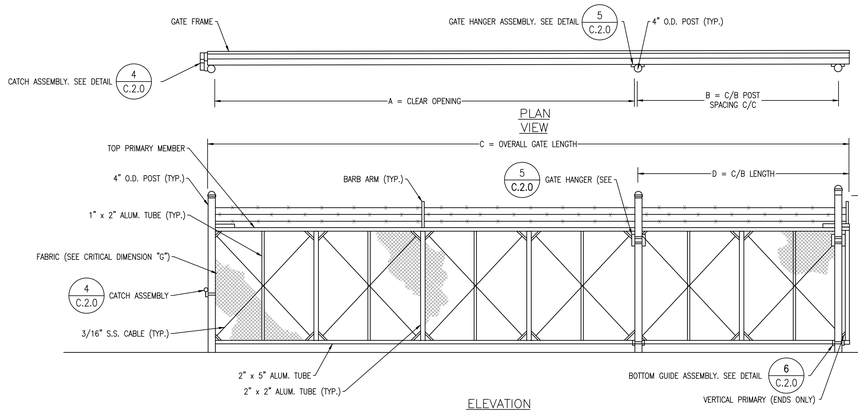
N.T.S.

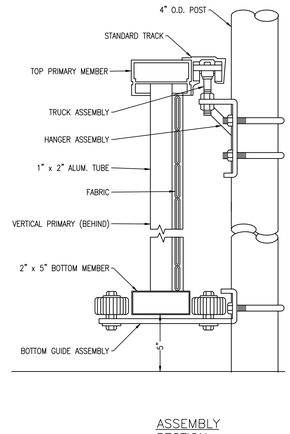
STEEL POST SCHEDULE	
USE AND SECTION	MINIMUM OUTSIDE DIMENSIONS (NOMINAL)
Corner, End & Pull Posts	3" O.D.
Line Posts	3" O.D.
Top, Bottom & Brace Rails	1-5/8" O.D.



2 C.2.0 FASTENING DETAILS

SCALE: 1/8" = 1'-0"



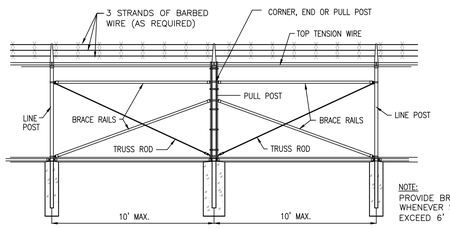


NOTES:

1. BARB ARMS ARE OPTIONAL
2. GATE ELEVATION IS VIEWED FROM THE OUTSIDE OF THE SECURE AREA LOOKING IN.

3 C.2.0 TYPICAL HEAVY DUTY CANTILEVER SLIDE GATE

SCALE: N.T.S.



NOTE:
PROVIDE BRACE PANEL WHENEVER STRAIGHT RUNS EXCEED 6'

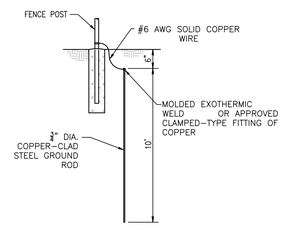
7 C.2.0 BRACE PANEL DETAIL

SCALE: N.T.S.

CRTICAL DIMENSION CHART		
A	CLEAR OPENING	**
B	COUNTERBALANCE POST SPACING C/C	*
C	OVERALL GATE LENGTH	*
D	COUNTERBALANCE LENGTH	*
E	NOMINAL GATE HEIGHT	*
F	POST HEIGHT	*
G	FABRIC HEIGHT	7'

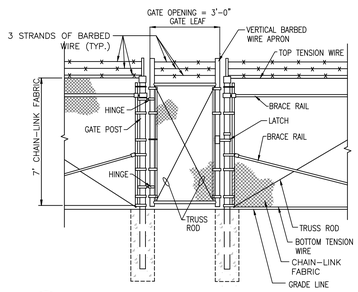
*CRITICAL DIMENSIONS TO BE DETERMINED BY MANUFACTURER. CONTRACTOR TO VERIFY AND COORDINATE MANUFACTURER'S SPECIFICATIONS PRIOR TO PURCHASE AND SHALL FOLLOW MANUFACTURER GUIDELINES DURING INSTALLATION.

** SEE SHEET C.1.4 FOR CLEAR OPENING DIMENSIONS



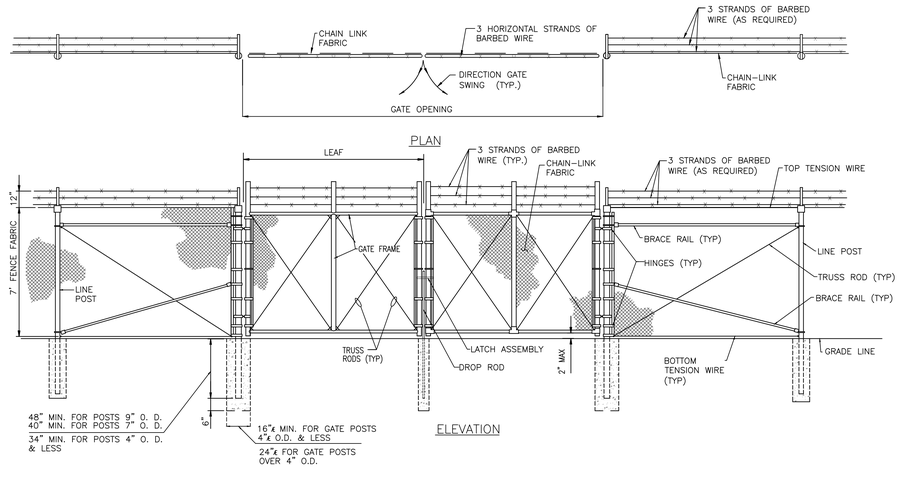
8 C.2.0 GROUNDING DETAIL

SCALE: N.T.S.



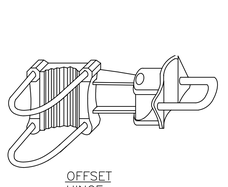
9 C.2.0 PERSONNEL GATE

SCALE: N.T.S.

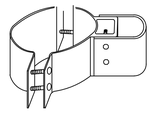


10 C.2.0 TYPICAL DOUBLE SWING GATE

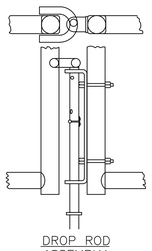
SCALE: N.T.S.



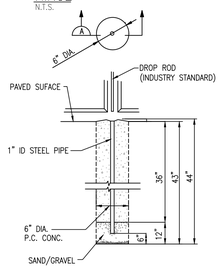
OFFSET HINGE
N.T.S.



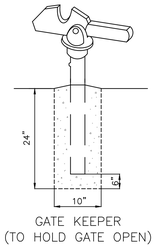
STANDARD HINGE
N.T.S.



DROP ROD ASSEMBLY
N.T.S.

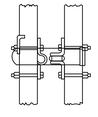


DROP ROD FOUNDATION
N.T.S.



GATE KEEPER (TO HOLD GATE OPEN)

SWING GATE DETAILS
N.T.S.



LATCH ASSEMBLY
N.T.S.

GATE POST SCHEDULE	
GATE LEAF WIDTH (NOMINAL)	OUTSIDE DIMENSION (NOMINAL)
6' OR LESS	3" O.D.
MORE THAN 6' TO 13'	4" O.D.
MORE THAN 13" TO 18"	7" O.D.
MORE THAN 18'	9" O.D.

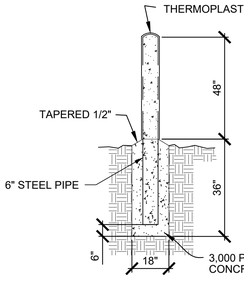
GATE NOTES:

DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPE OF FENCE SECTIONS AND METHODS OF INSTALLATION.

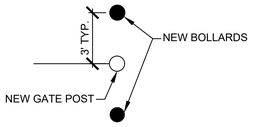
SWING GATES SHALL BE CONSTRUCTED WITH DROP RODS, PADLOCKS, LATCH ASSEMBLY AND GATE KEEPERS EXCEPT AS NOTED.

ALL GATE FRAMES SHALL BE A MINIMUM 2" NOMINAL (ROUND) OR 2" NOMINAL (SQUARE). GATE FRAMES SHALL BE OF WELDED CONSTRUCTION OR SHALL BE ASSEMBLED USING HEAVY FITTINGS. AT CONTRACTOR'S OPTION A WELDED HORIZONTAL BRACE MAY BE USED IN LIEU OF TRUSS RODS TO BRACE ALL WELDED GATE FRAMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER RIGID CONSTRUCTION OF ALL GATES SUPPLIED.

CONTRACTOR SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS AND GUIDELINES FOR INSTALLATION.



BOLLARD DETAIL
NOT TO SCALE



PLAN VIEW
NOT TO SCALE

1 C.2.0 GATE BOLLARD DETAIL - TYP

NOT TO SCALE

NO.	DESCRIPTION	DATE
	REVISIONS	

Professional's Signature Date

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERAN'S AFFAIRS
ANNVILLE, PENNSYLVANIA 17003

DESIGN PROFESSIONALS:
OFFICE OF FACILITIES AND ENGINEERING
BUREAU OF DESIGN AND PROJECT MANAGEMENT
BLDG. 0-10, FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

PROJECT NO.: 42220033

ASP FENCE, E&S, SW REPAIR PHASE 1

TRAINING CORRIDOR, FT. INDIANTOWN GAP
EAST HANOVER TWP, LEBANON COUNTY, PENNSYLVANIA

FENCE DETAILS

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

DRAWN BY	DATE	DRAWING NO.
D. STERNER	30 NOV 2023	C.2.0
CHECKED BY	SCALE	
K. LLOYD	AS NOTED	

POND P57 REHABILITATION PLAN

SCALE: 1" = 20'
SCALE IN FEET 20' 10 0' 20 40

NOTES - P57 & P58

A. ALL STRUCTURES WILL MEET PennDOT STANDARDS.

B. BASIN FLOOR AND INTERIOR BERM - DEWATER USING DETAIL 3-16

1. REMOVE SEDIMENT AND VEGETATION
   a. REMOVE EXISTING VEGETATION. GRUB ROOTS. STUMPS AND WOODY MATERIAL SHOULD NOT BE REMOVED ENTIRELY BUT SHOULD BE GROUND DOWN TO 6 INCHES BELOW SURFACE.
   b. REMOVE/EXCAVATE BASIN BOTTOM 12 INCHES TO UNCOMPACTED SUBGRADE. DO NOT COMPACT SUBGRADE. SCARIFY SUBGRADE TO A MINIMUM OF 6 INCHES WITH LIGHT EQUIPMENT.
2. INSTALL NEW OUTFALL STRUCTURE
   a. REMOVE EXISTING OUTFALL STRUCTURE. NOTIFY DESIGN ENGINEER AND INSPECT OUTFALL CULVERT. INSTALL NEW OUTFALL STRUCTURE - SEE DETAIL.
3. EXISTING PIPE OUTFALL
   a. INSTALL RIP RAP APRON AT INVERT ELEVATION OF PIPE OU
   b. TFALL - SEE DETAIL.

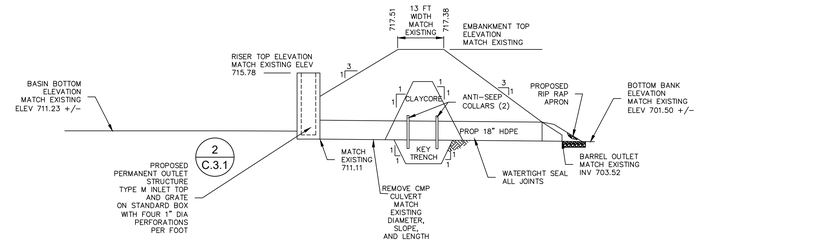
C. BASIN EXTERIOR

1. BASIN BERM (EXTERIOR)
   a. MOW EXISTING VEGETATION. STUMPS AND WOODY MATERIAL ROOTS SHOULD BE GROUND DOWN TO 6 INCHES BELOW SURFACE.
   b. STUMP CAVITIES SHOULD BE FILL WITH WELL-COMPACTED TOPSOIL.
   c. BERM SHALL BE STABILIZED WITH PERMANENT SEEDING AND MATING IMMEDIATELY.
2. EXISTING SPILLWAY
   a. SEDIMENT AND BROKEN RIP-RAP SHOULD BE REMOVED FROM SPILLWAY AND DISPOSED OF PER NOTS (SHEET G.1.1).
   b. STUMPS AND WOODY MATERIAL ROOTS IN RIP-RAP SPILLWAY SHOULD BE CUT AS CLOST TO ROCK LAYER AS POSSIBLE AND CHEMICALLY TREATED BY CERTIFIED HERBACIDE PERSONNEL.
   c. 6" TO 8" OF CLEAN R-4 RIP RAP SHOULD BE ADDED TO SPILLWAY, AND COMPACTED INTO PLACE.

D. BASIN OUTFALL

1. OUTFALL STRUCTURE
   a. EXISTING OUTFALL STRUCTURE TO BE REMOVED AND REPLACED. SEE DETAIL.
   b. EXISTING OUTFALL CULVERT TO BE REMOVED AND REPLACED. SEE BASIN CROSS SECTION.EXISTING BASIN OUTLET APRON TO BE REPLACED.

SEE E&S NOTES ON SHEET C.1.2



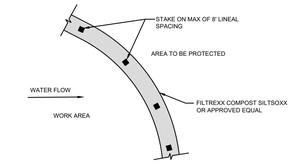
NOTES:

EXCAVATION THROUGH BASIN TO REPLACE OUTFALL CULVERT, INCLUDING ALL APPURTENANT WORKS, SHALL BE CONSTRUCTED TO THE DETAIL AND DIMENSIONS SHOWN ON THE PLAN DRAWINGS.

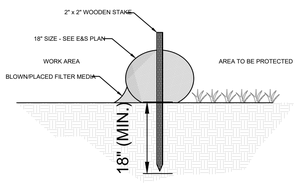
FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN LAYERED LIFTS OF NOT MORE THAN 6 TO 9 IN. THE MAXIMUM ROCK SIZE SHALL BE NO GREATER THAN 2/3 THE LIFT THICKNESS. UPON COMPLETION, THE EMBANKMENT SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED ACCORDING TO THE SPECIFICATIONS OF THE PLAN DRAWINGS. TREES SHALL NOT BE PLANTED ON THE EMBANKMENT.

1 / C.3.0 DETENTION POND OUTFALL REPLACEMENT EMBANKMENT DETAIL

NOT TO SCALE



PLAN

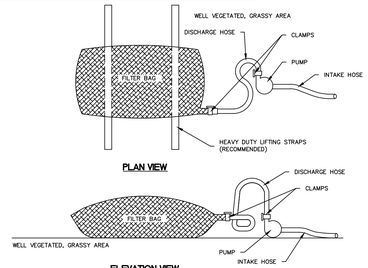


SECTION

MAINTENANCE NOTES:

1. THE CONTRACTOR/UNIT SHALL MAINTAIN THE SEDIMENT CONTROL IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED.
2. IF THE SEDIMENT CONTROL HAS BEEN DAMAGED, IT SHALL BE REPAIRED, OR REPLACED IF BEYOND REPAIR.
3. THE CONTRACTOR/UNIT SHALL REMOVE SEDIMENT AT THE BASE OF THE UPSLOPE SIDE OF THE SEDIMENT CONTROL WHEN ACCUMULATION HAS REACHED ½ OF THE EFFECTIVE HEIGHT OF THE SEDIMENT CONTROL, OR AS DIRECTED BY THE ENGINEER. ALTERNATIVELY, A NEW SEDIMENT CONTROL CAN BE PLACED ON TOP OF AND SLIGHTLY BEHIND THE ORIGINAL ONE CREATING MORE SEDIMENT STORAGE CAPACITY WITHOUT SOIL DISTURBANCE.
4. SEDIMENT CONTROL SHALL BE MAINTAINED UNTIL DISTURBED AREA ABOVE THE DEVICE HAS BEEN PERMANENTLY STABILIZED AND CONSTRUCTION ACTIVITY HAS CEASED.
5. THE FILTERMEDIA WILL BE DISPERSED ON SITE ONCE DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED, CONSTRUCTION ACTIVITY HAS CEASED, OR AS DETERMINED BY THE ENGINEER.
6. FOR LONG-TERM SEDIMENT AND POLLUTION CONTROL APPLICATIONS, SEDIMENT CONTROL CAN BE SEEDED AT THE TIME OF INSTALLATION TO CREATED A VEGETATIVE FILTERING SYSTEM FOR PROLONGED AND INCREASED FILTRATION OF SEDIMENT AND SOLUBLE POLLUTANTS (CONTAINED VEGETATIVE FILTER STRIP). THE APPROPRIATE SEED MIX SHALL BE DETERMINED BY THE ENGINEER.

2 / C.3.0 EROSION FILTER SOXX



PLAN VIEW

ELEVATION VIEW

NOTES:

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%, FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

3 / C.3.0 STANDARD CONSTRUCTION DETAIL #3-16 PUMPED WATER FILTER BAG

NOT TO SCALE

NO.	DESCRIPTION	DATE
	REVISIONS	

Professional's Signature Date

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERAN'S AFFAIRS
ANNVILLE, PENNSYLVANIA 17003

DESIGN PROFESSIONALS:

OFFICE OF FACILITIES AND ENGINEERING
BUREAU OF DESIGN AND PROJECT MANAGEMENT
BUILDING 0-10, CHAPEL ROAD, FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

PROJECT NO.: 42210120

ASP FENCE, E&S, SW REPAIR PHASE 1

TRAINING CORRIDOR
EAST HANOVER TWP, LEBANON COUNTY, PENNSYLVANIA

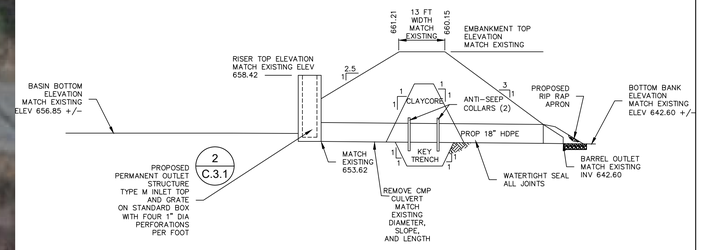
POND P57

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

DRAWN BY	DATE	DRAWING NO.
D. STERNER	30 NOV 2023	C.3.0
CHECKED BY	SCALE	
K.LLOYD	AS NOTED	



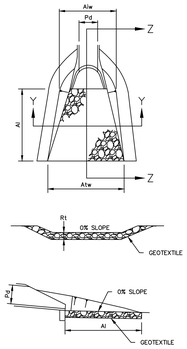
NOTES:

EXCAVATION THROUGH BASIN TO REPLACE OUTFALL CULVERT, INCLUDING ALL APPURTENANT WORKS, SHALL BE CONSTRUCTED TO THE DETAIL AND DIMENSIONS SHOWN ON THE PLAN DRAWINGS.

FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN LAYERED LIFTS OF NOT MORE THAN 6 TO 9 IN. THE MAXIMUM ROCK SIZE SHALL BE NO GREATER THAN 2/3 THE LIFT THICKNESS. UPON COMPLETION, THE EMBANKMENT SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED ACCORDING TO THE SPECIFICATIONS OF THE PLAN DRAWINGS. TREES SHALL NOT BE PLANTED ON THE EMBANKMENT.

1 C.3.1 DETENTION POND OUTFALL REPLACEMENT EMBANKMENT DETAIL

NOT TO SCALE



OUTLET NO.	PIPE DIA Pd (IN)	RIPRAP SIZE R-__	RIPRAP THICK. R1 (IN)	APRON LENGTH Ai (FT)	APRON INITIAL WIDTH Aiw (FT)	APRON TERMINAL WIDTH Atw (FT)
A	30	5	27	20	9	20
B	18	5	27	12	6	20
C	28	5	27	80	9	20
D	30	5	27	120	9	20
E	18	5	27	12	6	20

NOTES:

ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.

ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

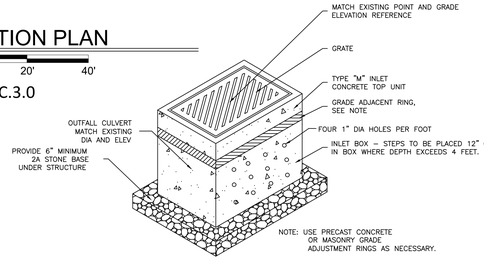
5 C.3.1 RIP RAP APRON AT PIPE OUTLET/ENDWALL

NOT TO SCALE

POND P58 REHABILITATION PLAN

SCALE: 1" = 20'
SCALE IN FEET 20' 10 0' 20' 40'

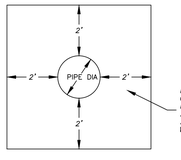
SEE NOTES SHEET C.3.0



2 C.3.1 BASIN RISER DETAIL

N.T.S.

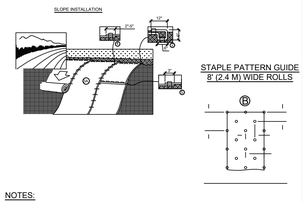
REF. PennDOT PUB 408 & 72M



1. *THE ANTI-SEEP COLLAR CONNECTED TO THE PIPE MUST BE WATERTIGHT.*
2. *PIPE JOINTS SHOULD BE AT LEAST 2 FEET FROM THE ANTI-SEEP COLLAR.*
3. *PROPER COMPACTION SHALL BE MADE BETWEEN THE ANTI-SEEP COLLARS.*
4. *12" THICK CONCRETE COLLARS MAY BE SUBSTITUTED MIN 2000 PSI*

3 C.3.1 ANTI-SEEP COLLAR DETAIL

N.T.S.



NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH
WITH APPROXIMATELY 12" (30cm) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH.
BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP's.

3. ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM , STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP's TYPE.

5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP's WIDTH.

NOTE:
IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

NOTE: TO BE USED ON ALL SLOPES 3:1 OR STEEPER
NAG S150 OR EQUAL
weed free agricultural straw
matrix mechanically stitched
on two-inch centers between two
photodegradable, synthetic nets.

4 C.3.1 SLOPE PROTECTION

NO.	DESCRIPTION	DATE
	REVISIONS	

Professional's Signature Date

COMMONWEALTH OF PENNSYLVANIA
DEPT. OF MILITARY & VETERAN'S AFFAIRS
ANNVILLE, PENNSYLVANIA 17003

DESIGN PROFESSIONALS:

OFFICE OF FACILITIES AND ENGINEERING
BUREAU OF DESIGN AND PROJECT MANAGEMENT
BUILDING 0-10, CHAPEL ROAD, FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

PROJECT NO.: 42210120

ASP FENCE, E&S, SW REPAIR PHASE 1

TRAINING CORRIDOR
EAST HANOVER TWP, LEBANON COUNTY, PENNSYLVANIA

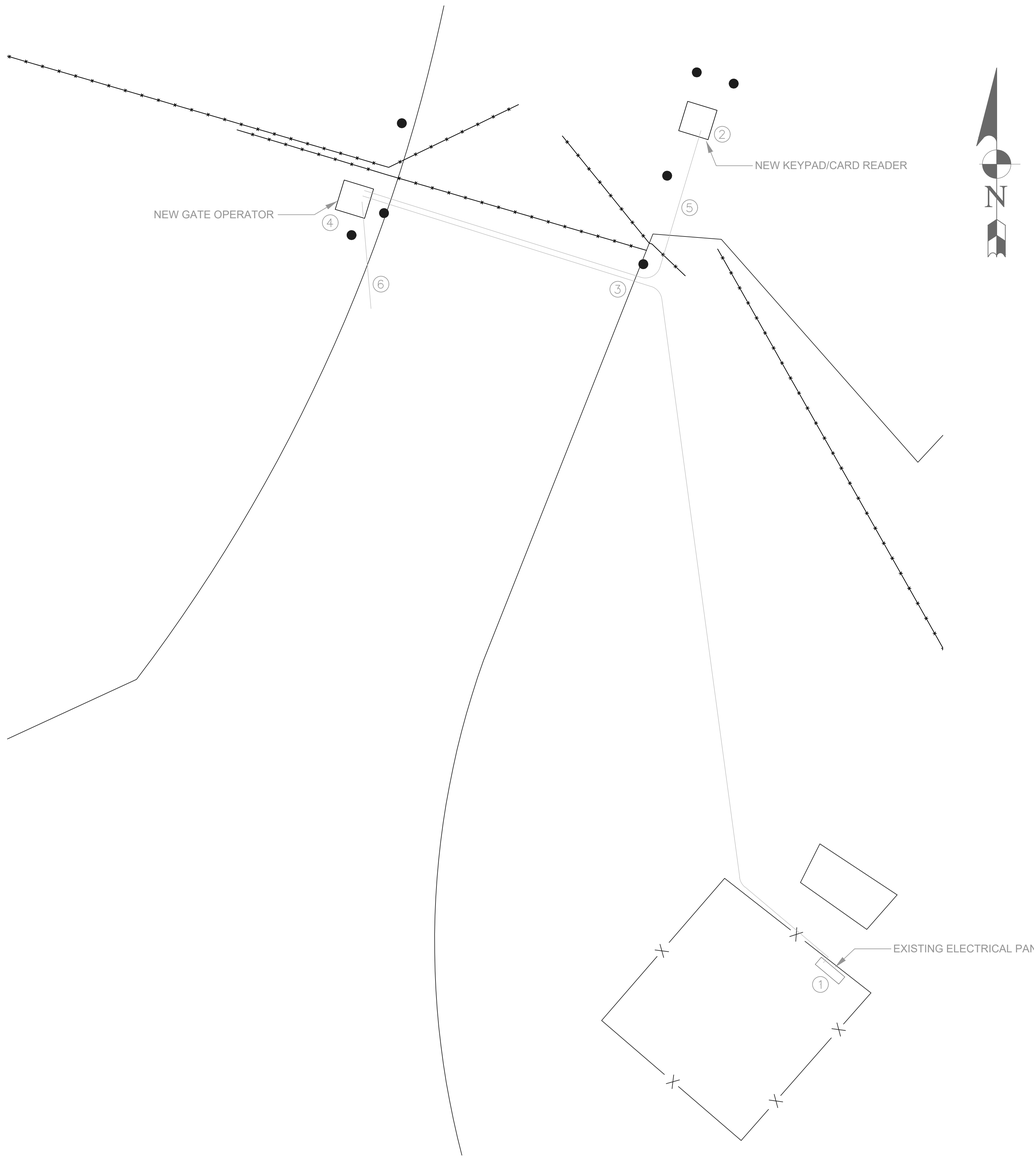
POND P58

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

DRAWN BY	DATE	DRAWING NO.
D. STERNER	30 NOV 2023	C.3.1
CHECKED BY	SCALE	
K. LLOYD	AS NOTED	



ELECTRICAL SITE PLAN

SCALE: 1/4" = 1'

GENERAL NOTES

1. ALL TRENCHING, CONCRETE ENCASEMENT, BACKFILL/COMPACTION, AND RETURNING TRENCH AREA TO THE ORIGINAL CONDITION SHALL BE BY THE GENERAL CONTRACTOR.
2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT, WIRING, GROUNDING, CONDUIT BASE PREPERATION, REQUIRED DISCONNECTS, AND FINAL CONNECTIONS.
3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FENCING, GATE/GATE MOTOR, KEYPAD CONTROLLER AND ALL REQUIRED CONCRETE BASES.

PLAN NOTES

(1) APPROXIMATE LOCATION OF EXISTING ELECTRICAL PANELBOARD. CONTRACTOR SHALL FURNISH AND INSTALL A NEW 20A–2P CIRCUIT BREAKER, TO MATCH EXISTING, FOR NEW MOTORIZED GATE OPERATOR.

(2) NEW PAD MOUNTED PEDESTAL POLE FOR KEYPAD/CARD READER ENTRANCE DEVICE. SEE DETAIL DRAWING FOR CONCRETE BASE REQUIREMENTS. CONCRETE BASES BY GENERAL CONTRACTOR.

(3) TWO (2) 1" PVC SCHEDULE 40 CONDUIT. CONCRETE ENCASE CONDUIT UNDER ROADWAYS AND DRIVEWAYS. FURNISH AND INSTALL 2#12 W/G IN ONE CONDUIT AND PULL STRING IN. THE OTHER. STUB UP CONDUIT IN CONCRETE PAD. SEE DETAIL THIS DRAWING.

(4) NEW GATE OPERATOR BY THE GENERAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A 30A–2P DISC. SWITCH, AT MOTOR, UNLESS PROVIDED WITH OPERATOR.

(5) ONE (1) 1" PVC SCHEDULE 40 CONDUIT FOR CONTROL WIRING. SEE DETAIL THIS DRAWING.

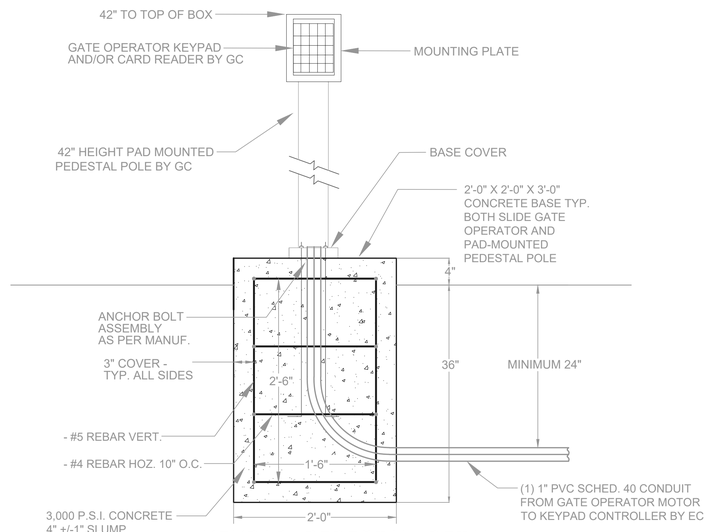
(6) EC SHALL PROVIDE ONE (1) 1" PVC SCHEDULE 40 CONDUIT TO AN AREA DETERMINED BY THE GATE OPERATOR MANUFACTURER OR GC FOR THE USE OF A MAGNETIC LOOP DEVICE.

ELECTRICAL SPECIFICATIONS

1. ALL WORK SHALL BE IN COMPLIANCE WITH NEC, AND ALL OTHER APPLICABLE CODES.
2. ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED TESTS, INSPECTIONS AND FEES.
3. COORDINATE WITH ALL TRADES.
4. ELECTRICAL CONTRACTOR SHALL VISIT THE PROJECT SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS INHERENT WITH THIS PROJECT. BID PRICE SHALL BE FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
5. THE DRAWINGS ARE INDICATIVE OF THE WORK TO BE INSTALLED. ALL OUTLET AND EQUIPMENT LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ELECTRICAL CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING HIS WORK. PROVIDE ALL WORK AS SHOWN REQUIRED AND INFERRED BY THE DRAWINGS, SPECIFICATIONS AND GENERAL/SPECIAL CONDITIONS ISSUED BY THE ARCHITECT.
6. WIRE SHALL BE COPPER CONDUCTOR, THHN/THWN INSULATION, #12 AWG MINIMUM.
7. ALL WIRING SHALL BE RUN IN CONDUIT. USE EMT WITH COMPRESSION CONNECTORS IN ALL LOCATIONS EXCEPT AS FOLLOWS:

   OUTDOORS: RGS AND SCHEDULE 40 PVC.

   FLEXIBLE CONNECTIONS: LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
8. PROVIDE ALL GROUNDING AS REQUIRED BY CODE. ALL FEEDERS AND BRANCH CIRCUITS SHALL INCLUDE A GREEN EQUIPMENT GROUNDING CONDUCTOR.
9. PROVIDE ENGRAVED NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECT SWITCHES.
10. DISCONNECT SWITCHES SHALL BE GENERAL DUTY. FUSE CLIPS SHALL BE REJECTION TYPE. SQUARE D, GENERAL ELECTRIC, ITE–SIEMENS OR CUTLER–HAMMER. FUSES SHALL BE BUSS "LOW–PEAK", RK1.
11. ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING AND FIREPROOFING RELATED TO HIS WORK.

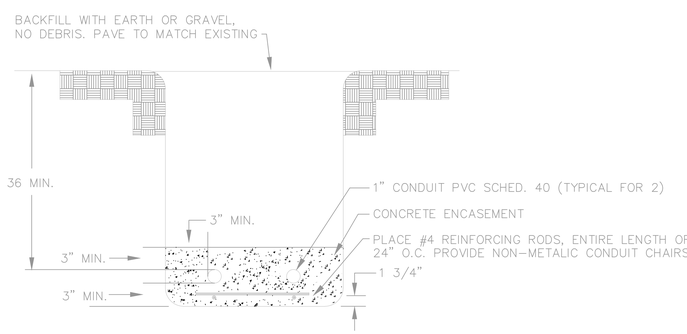


KEYPAD PEDESTAL DETAIL

NO SCALE

NOTES:

1. TWO (2) CONCRETE BASES FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR. ONE FOR PEDESTAL POLE AND ONE FOR GATE OPERATOR.
2. FOLLOW PROCEDURES FOR APPROVAL OF SUBGRADE AS DESCRIBED IN DIVISON 31 SECTION 312000 - EARTH MOVING.
3. ALL EXCAVATION AND CONCRETE WORK TO BE PERFORMED IN ACCORDANCE WITH DIVISION 31 SECTION 312000 - EARTH MOVING AND DIVISION 03 SECTION 033000 - CAST-IN-PLACE CONCRETE.



CONCRETE ENCASED DUCTBANK DETAIL

NO SCALE

NOTE: 1. CONDUIT SHALL BE CONCRETE ENCASED UNDER ROADWAYS AND DRIVEWAYS.

2. ONLY ONE CONDUIT TO BE INSTALLED FOR GATE CONTROL WIRING.

NO.	DESCRIPTION	DATE
1	REVISED PER LCCD REVIEW	20 OCT 23

REVISIONS

Professional's Signature Date

COMMONWEALTH OF PENNSYLVANIA
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