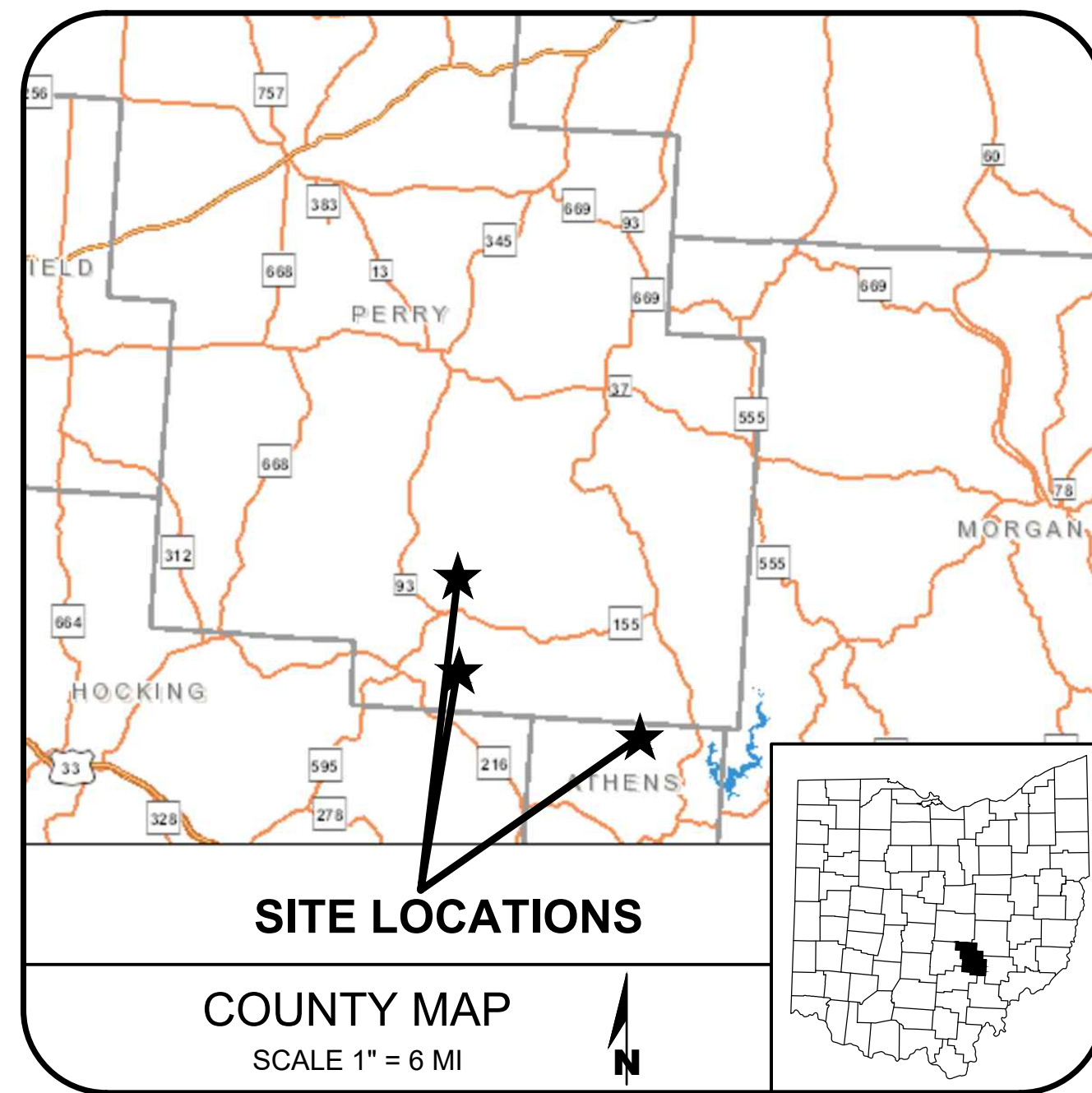


DIVISION OF MINERAL RESOURCES MANAGEMENT

COMBO PERRY CO. RECLAMATION 2024

RECLAMATION PROJECT NUMBER: CO-PR-24



GENERAL SUMMARY

| SPEC | ITEM | SALT LICK QUANTITIES | JOHNSON QUANTITIES | SALEM HOLLOW QUANTITIES | GRAND TOTAL |
|------|------------------------------------|----------------------|--------------------|-------------------------|-------------|
| 2100 | MOBILIZATION/ACCESS | 0.7 (LS) | 0.1 (LS) | 0.2 (LS) | 1.0 (LS) |
| 2121 | CLEARING AND GRUBBING | 3.5 (ACRE) | 0.1 (ACRE) | 0.5 (ACRE) | 4.1 (ACRE) |
| 2200 | EARTHWORK (EST. 15,227 CY) | 0.98 (LS) | - | 0.02 (LS) | 1.0 (LS) |
| 2301 | DEBRIS REMOVAL AND DISPOSAL | 20.0 (TON) | - | - | 20.0 (TON) |
| 2702 | SPECIFIC WORK ALLOWANCE | 5000 (EA) | 500 (EA) | 500 (EA) | 6000 (EA) |
| 3130 | TYPE C ROCK CHANNEL PROTECTION | 30 (TON) | - | - | 30 (TON) |
| 3211 | FILTER FABRIC | 117 (SY) | - | - | 117 (SY) |
| 3231 | PREFABRICATED BLOCK CHANNEL LINING | 6975 (SF) | - | - | 6975 (SF) |
| 3233 | TEMPORARY STREAM CROSSING | - | - | 3 (EA) | 3 (EA) |
| 3410 | SILT FENCE | 1400 (LF) | - | 100 (LF) | 1500 (LF) |
| 3451 | #3 & #4 STONE | 28 (TON) | - | 12 (TON) | 40 (TON) |
| 3454 | #57 STONE (Road) | 80 (TON) | 20 (TON) | 40 (TON) | 140 (TON) |
| 4446 | DEWATERING (Pumping) | - | - | 1.0 (LS) | 1.0 (LS) |
| 4516 | POLYURETHANE FOAM FILL | - | 90 (CF) | 1874 (CF) | 1964 (CF) |
| 6100 | STANDARD REVEGETATION | 3.5 (ACRE) | 0.1 (ACRE) | 0.5 (ACRE) | 4.1 (ACRE) |
| 6310 | LIME | 9 (TON) | 0.5 (TON) | 0.25 (TON) | 10 (TON) |
| 9420 | OIL/GAS WELL ABANDONMENT | 1.0 (LS) | - | - | 1.0 (LS) |
| 9421 | GAS LINE RELOCATION | 1000 (LF) | - | - | 1000 (LF) |
| 9931 | MISC (SHAFT MARKER) | - | - | 1 (EA) | 1.0 (EA) |
| 9991 | SURVEYING | 1.0 (LS) | - | - | 1.0 (LS) |

CONTACT INFORMATION

DIVISION OF MINERAL RESOURCES MANAGEMENT
OHIO DEPARTMENT OF NATURAL RESOURCES
9900 BRICK CHURCH RD. CAMBRIDGE, OHIO 43725
PH: (740) 439-9079

PROJECT OFFICER
KATIE CUNNINGHAM
PH: (740) 274-4963

PROJECT ENGINEER
RON WARNER, P.E.
PH: (740) 303-4209

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COMBO PERRY CO. RECLAMATION 2024
PERRY COUNTY RECLAMATION PROJECT No. CO-PR-24
TITLE SHEET

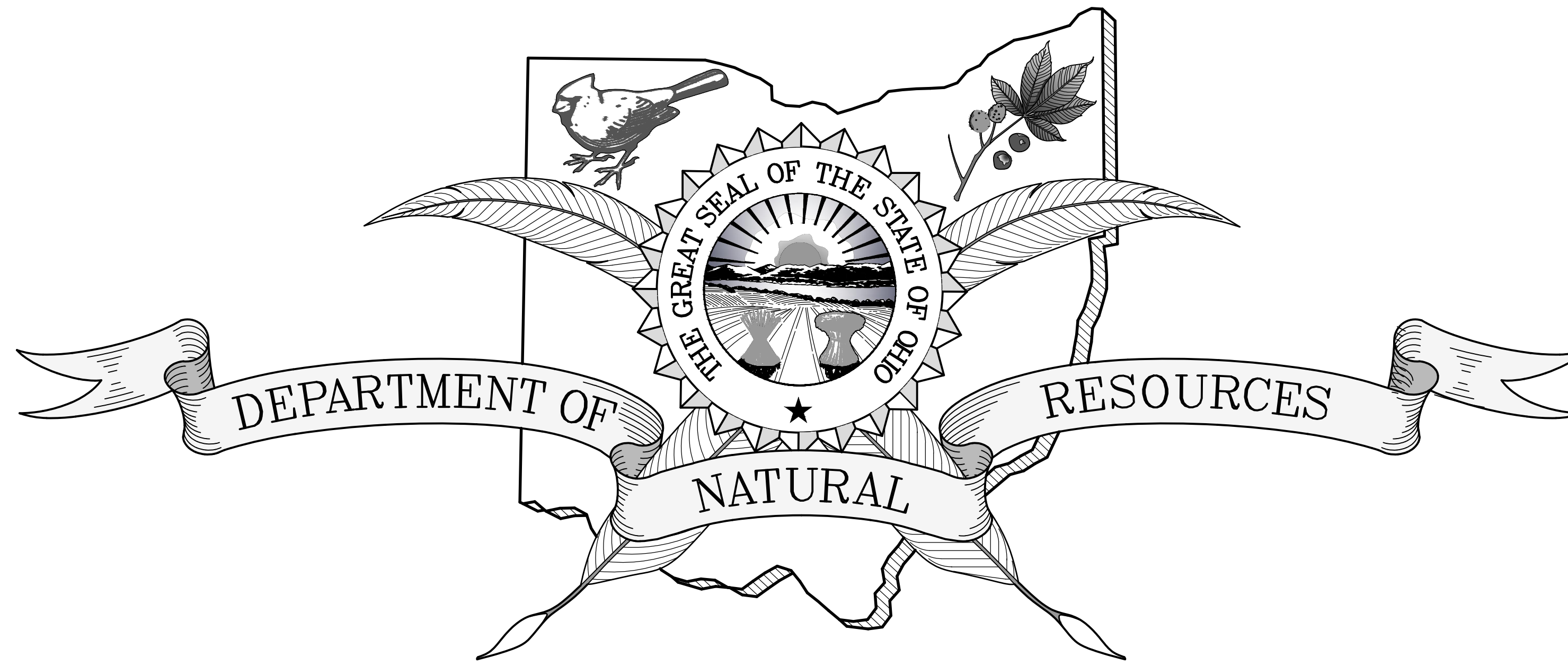
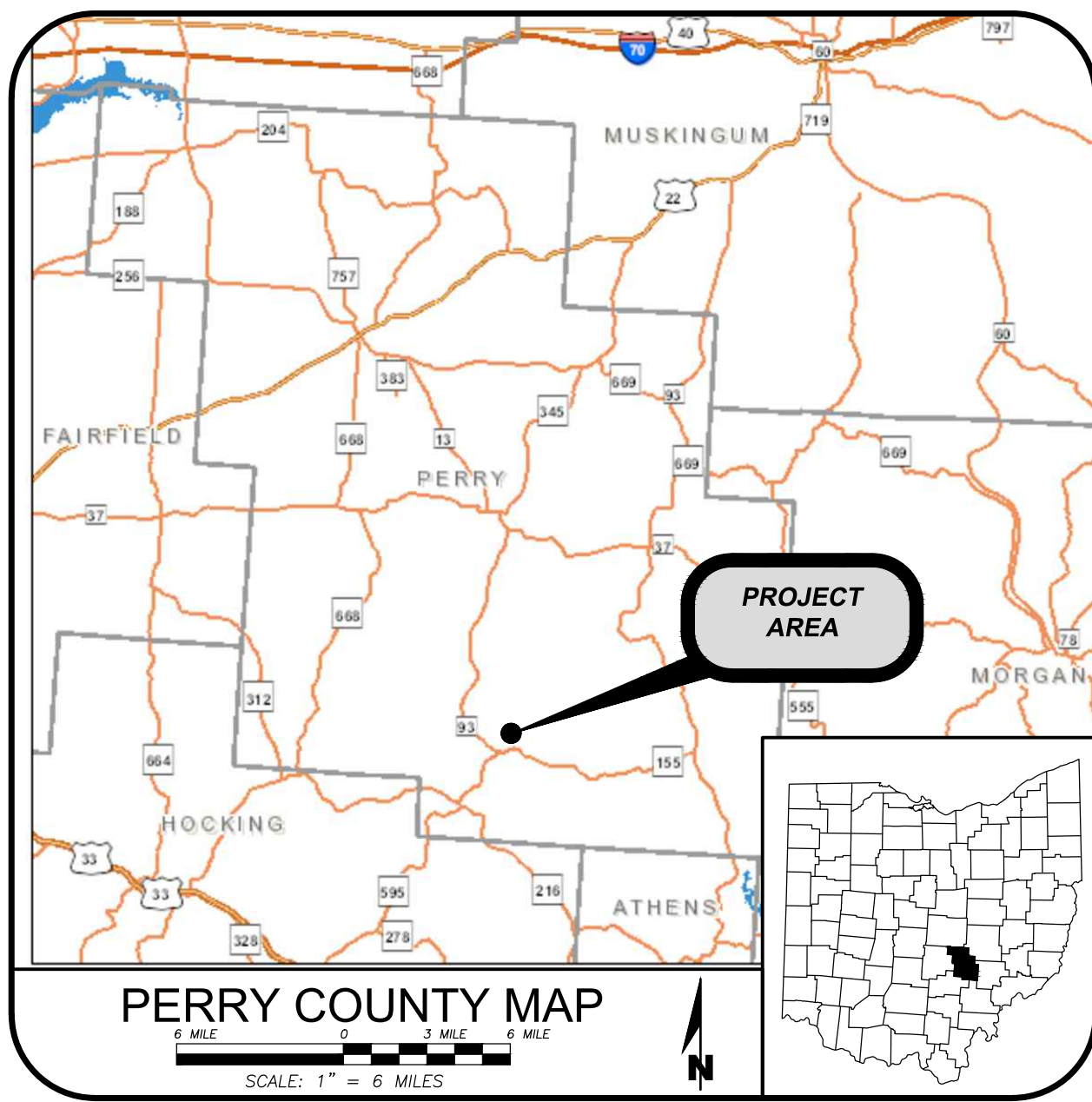
DATE:
OCTOBER, 2024

REVISIONS

DESIGN UNIT
ZALESKI OFFICE
NRE4 R. WARNER, P.E.
NRE2 KRIS GILLESPIE
P.O. K. CUNNINGHAM

THIS DOCUMENT WAS ORIGINALLY ISSUED BY RONALD A. WARNER, P.E.
THIS DOCUMENT IS NOT CONSIDERED A SEALED DOCUMENT.
FOR BIDDING PURPOSE ONLY.

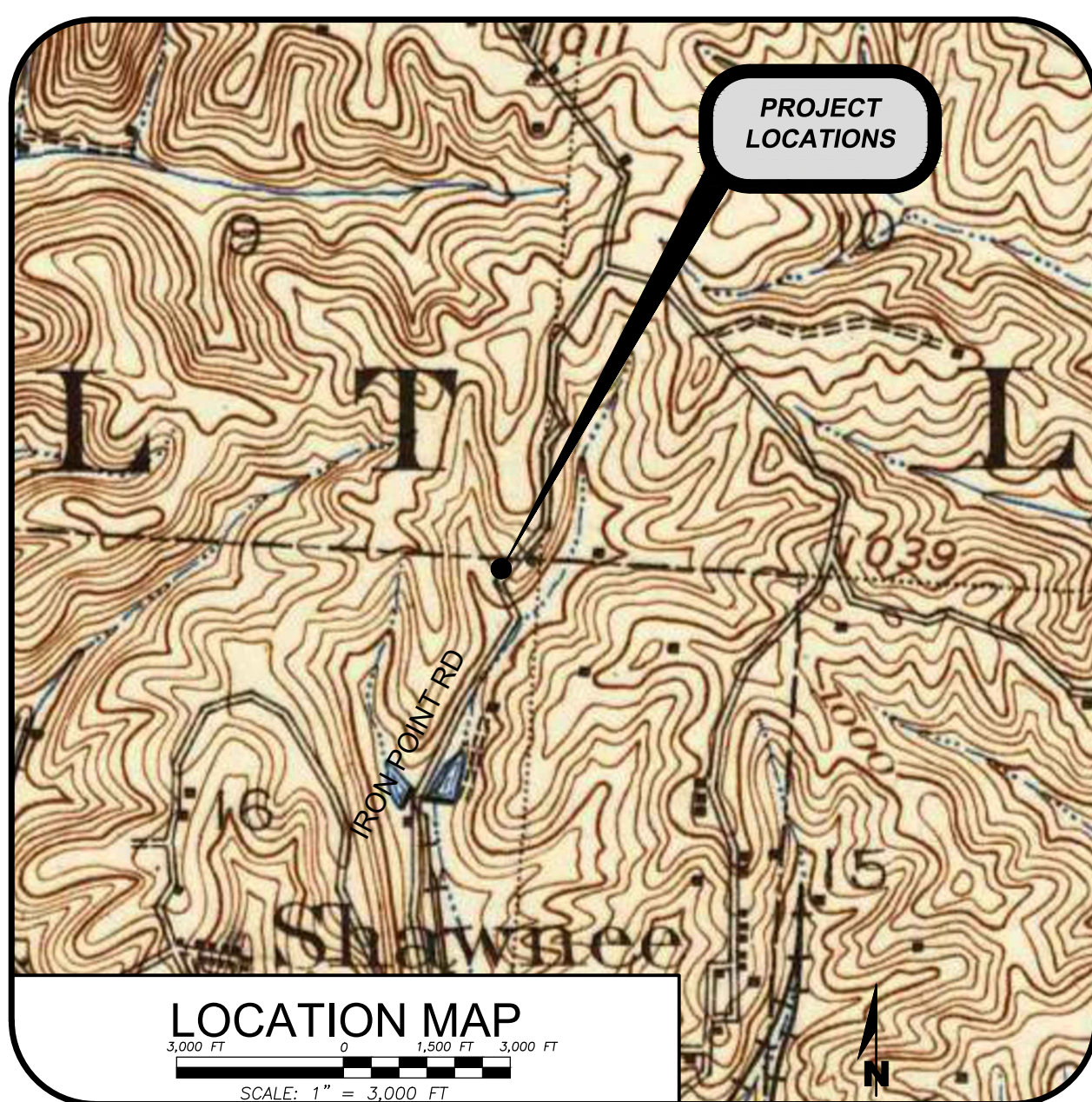
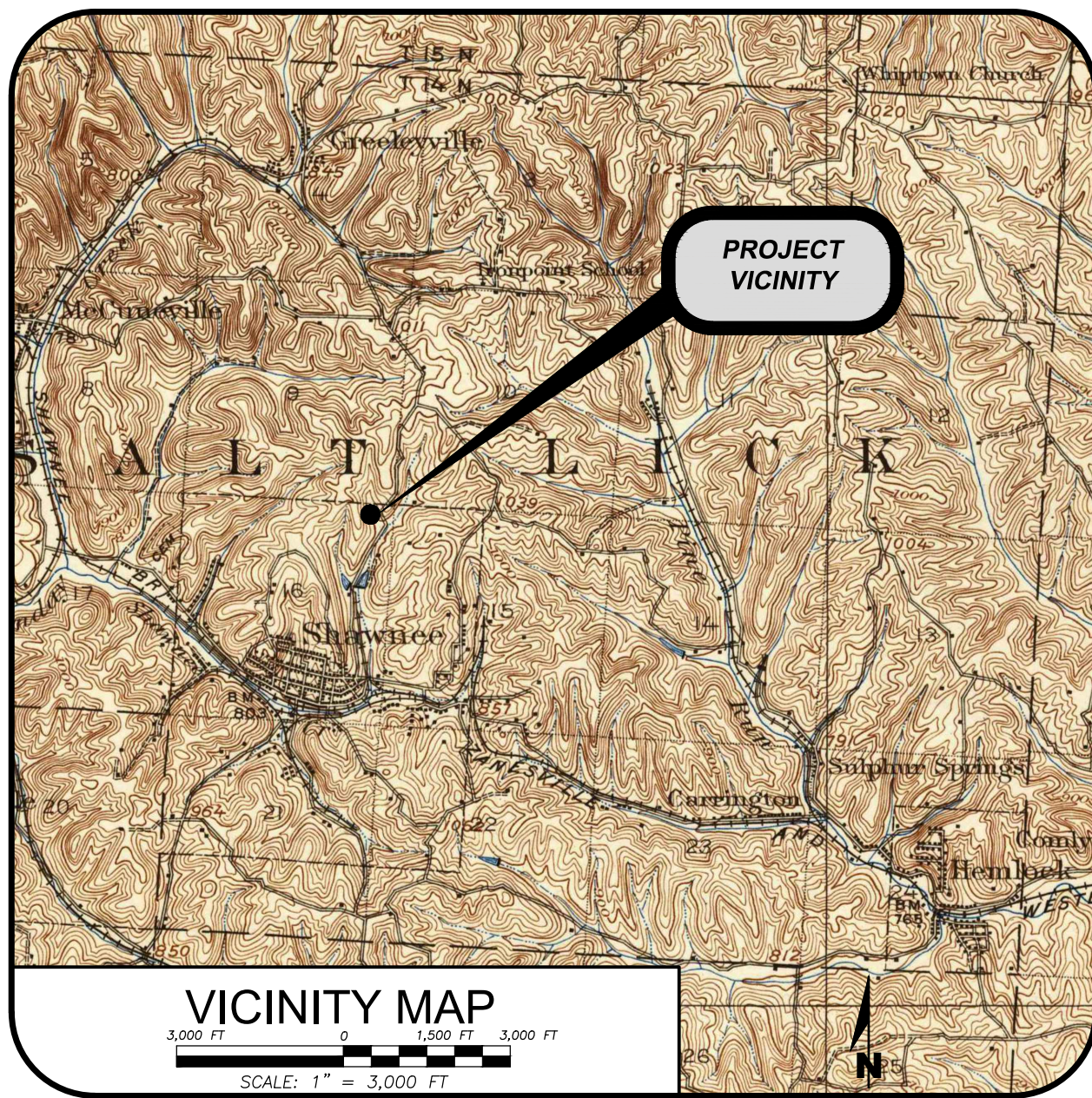
DATE:
RONALD A. WARNER, P.E.
OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINERAL RESOURCES MANAGEMENT



DIVISION OF MINERAL RESOURCES MANAGEMENT

SALT LICK VERTICAL OPENINGS

**SALT LICK TOWNSHIP, PERRY COUNTY
RECLAMATION PROJECT No. PR-SI-38**



SHEET INDEX

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LAND OWNERS

USFS
SR33
NELSONVILLE, OHIO 45732

CONTACT INFORMATION

DIVISION OF MINERAL RESOURCES MANAGEMENT
OHIO DEPARTMENT OF NATURAL RESOURCES
29371 WHEELABOUT ROAD, MCARTHUR, OHIO 45651
PH: (740) 274-4943 FAX: (740) 274-4937



OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE (www.ogpups.com)
1-800-925-0988

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN APPROXIMATELY, BASED EITHER ON REPORTING BY RESPECTIVE OWNERS AND/OR BY FIELD LOCATION. HOWEVER, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ALL DAMAGES THAT MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL MAINTAIN A CURRENT 10 DAY OUPS TICKET DURING THE ENTIRE PROJECT BY CONTACTING OUPS EVERY 10 DAYS.

UTILITY CONTACT INFORMATION

| UTILITY COMPANY | UTILITY | PHONE # | MEMBER | NON-MEMBER |
|-----------------------------|----------|----------------|--------|------------|
| AEP OHIO | ELECTRIC | 1-800-277-2177 | X | |
| AT&T | PHONE | 1-800-288-2747 | X | |
| SOUTHERN PERRY COUNTY WATER | WATER | 740-347-9030 | X | |

PROJECT DESCRIPTION

THE INTENT OF THIS PROJECT IS TO FILL AND CAP TWO STREAM CAPTURES AND BACKFILL A HIGHWALL IN CLOSE PROXIMITY TO A TOWNSHIP ROAD ON USFS PROPERTY IN PERRY COUNTY OHIO. THE VERTICAL OPENING MEASURES 18' X 10' WIDE WITH A DEPTH OF 8' THAT CAPTURES A SMALL EPHEMERAL TRIBUTARY FED BY A ROAD DITCH FROM IRON POINT ROAD. THE OPEN PORTAL MEASURE 4' X 9' CAPTURES HIGH FLOW FLOODING.

MAJOR WORK ITEMS INCLUDE CLEARING AND GRUBBING, ESTIMATED 15,000 CY EARTHWORK, FLEXAMAT CHANNEL, AND REVEGETATION.



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COMBO PERRY CO. RECLAMATION 2024

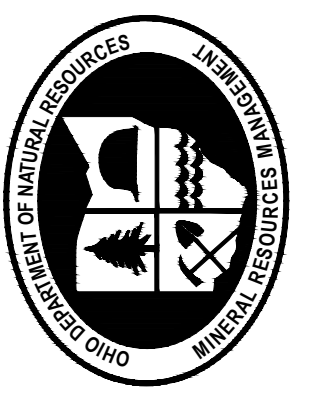
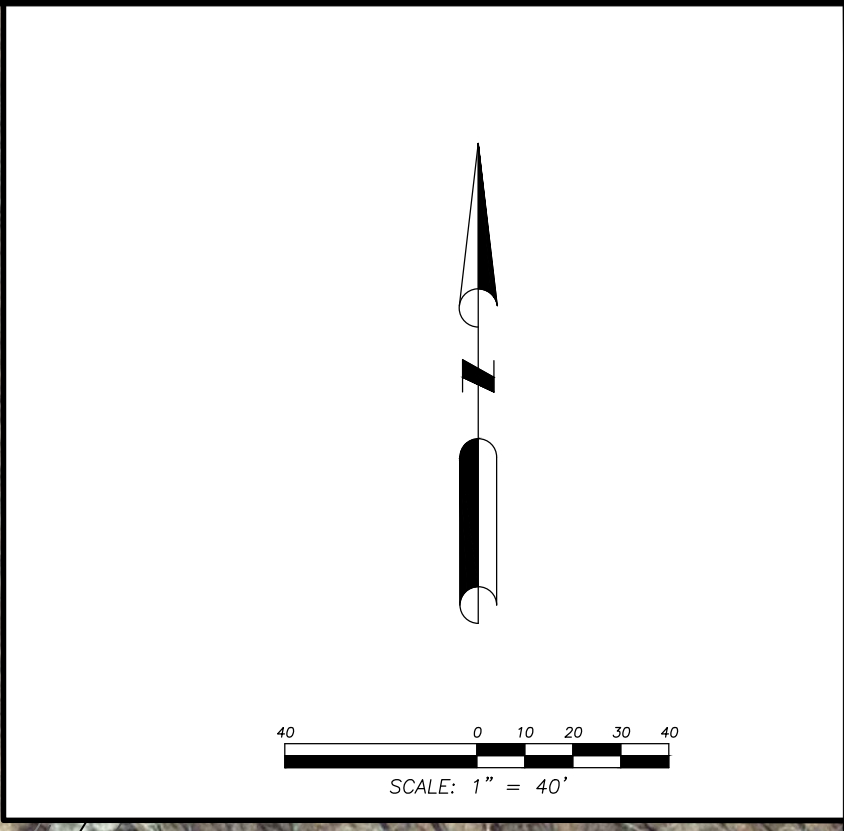
PERRY COUNTY RECLAMATION PROJECT No. CO-PR-24

SALT LICK TITLE SHEET

DATE:
OCTOBER, 2024

REVISIONS

DESIGN UNIT
ZALESKI OFFICE
NREL4 R. WARNER, P.E.
NREL2 KRIS GILLESPIE
P.D. K. CUNNINGHAM



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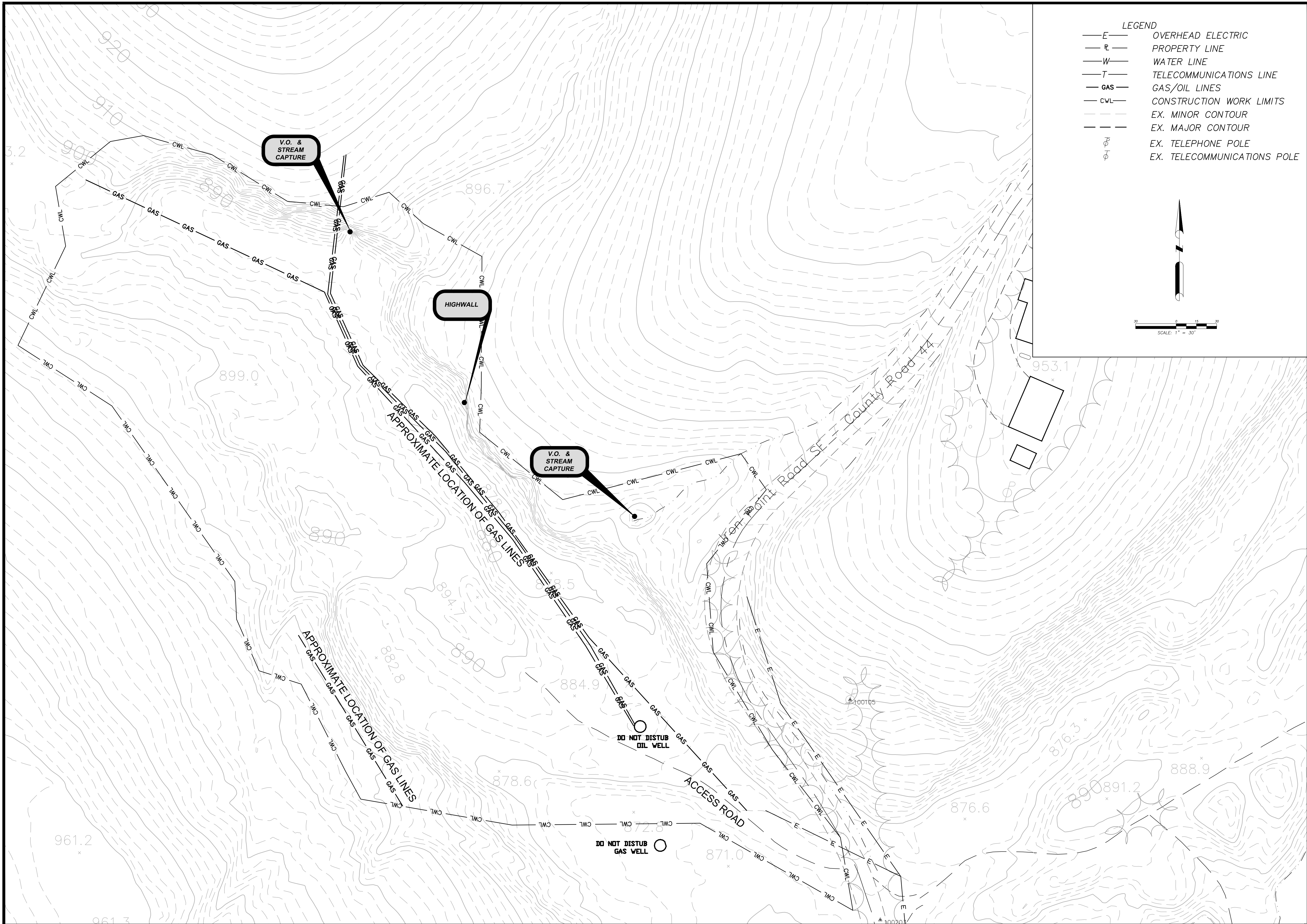


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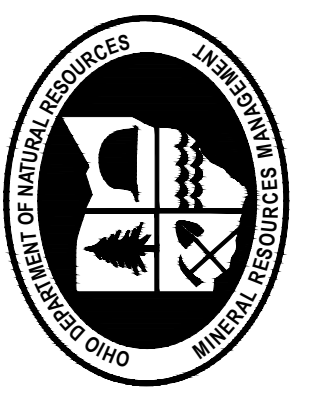
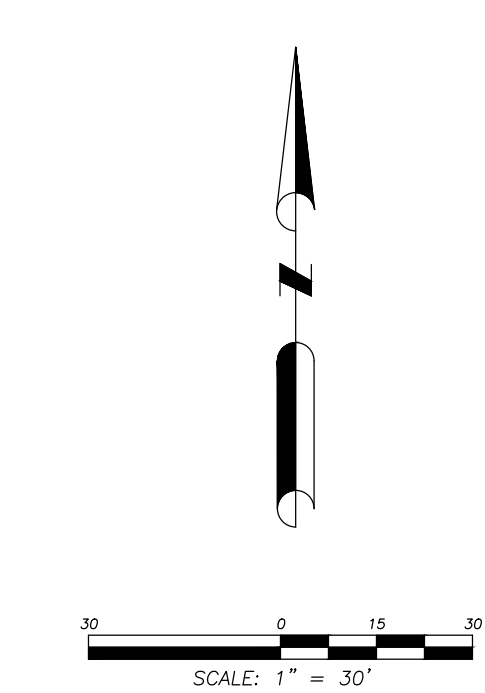
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N.R.E. R. WARNER, P.E.
N.R.E. KRIS GILLESPIE
P.O. K. CUNNINGHAM



- LEGEND**
- E— OVERHEAD ELECTRIC
 - P— PROPERTY LINE
 - W— WATER LINE
 - T— TELECOMMUNICATIONS LINE
 - GAS— GAS/OIL LINES
 - CWL— CONSTRUCTION WORK LIMITS
 - — EX. MINOR CONTOUR
 - — EX. MAJOR CONTOUR
 - — EX. TELEPHONE POLE
 - — EX. TELECOMMUNICATIONS POLE



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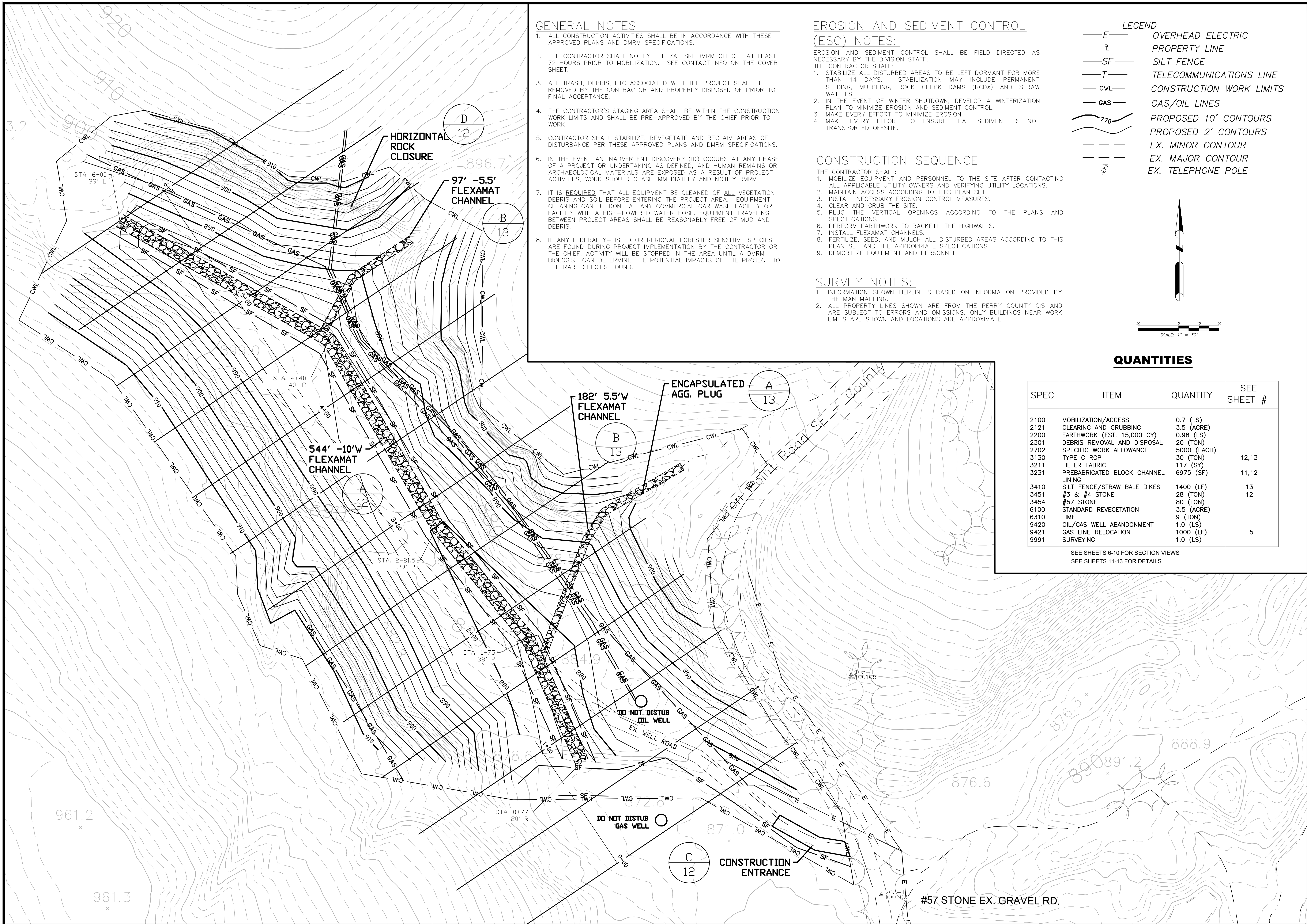
COMBO PERRY CO. RECLAMATION 2024
PERRY COUNTY RECLAMATION PROJECT No. CO-PR-24

SALT LICK EXISTING SITE

DATE:
OCTOBER, 2024

REVISIONS

DESIGN UNIT:
ZALESKI OFFICE
N.R.E. R. WARNER, P.E.
N.R.E. KRIS GILLESPIE
P.O. K. CUNNINGHAM



GENERAL NOTES

1. ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THESE APPROVED PLANS AND DMRM SPECIFICATIONS.
2. THE CONTRACTOR SHALL NOTIFY THE ZALESKI DMRM OFFICE AT LEAST 72 HOURS PRIOR TO MOBILIZATION. SEE CONTACT INFO ON THE COVER SHEET.
3. ALL TRASH, DEBRIS, ETC ASSOCIATED WITH THE PROJECT SHALL BE REMOVED BY THE CONTRACTOR AND PROPERLY DISPOSED OF PRIOR TO FINAL ACCEPTANCE.
4. THE CONTRACTOR'S STAGING AREA SHALL BE WITHIN THE CONSTRUCTION WORK LIMITS AND SHALL BE PRE-APPROVED BY THE CHIEF PRIOR TO WORK.
5. CONTRACTOR SHALL STABILIZE, REVEGETATE AND RECLAIM AREAS OF DISTURBANCE PER THESE APPROVED PLANS AND DMRM SPECIFICATIONS.
6. IN THE EVENT OF AN INADVERTENT DISCOVERY (ID) OCCURS AT ANY PHASE OF A PROJECT OR UNDERTAKING AS DEFINED, AND HUMAN REMAINS OR ARCHAEOLOGICAL MATERIALS ARE EXPOSED AS A RESULT OF PROJECT ACTIVITIES, WORK SHOULD CEASE IMMEDIATELY AND NOTIFY DMRM.
7. IT IS REQUIRED THAT ALL EQUIPMENT BE CLEANED OF ALL VEGETATION DEBRIS AND SOIL BEFORE ENTERING THE PROJECT AREA. EQUIPMENT CLEANING CAN BE DONE AT ANY COMMERCIAL CAR WASH FACILITY OR FACILITY WITH A HIGH-POWERED WATER HOSE. EQUIPMENT TRAVELING BETWEEN PROJECT AREAS SHALL BE REASONABLY FREE OF MUD AND DEBRIS.
8. IF ANY FEDERALLY-LISTED OR REGIONAL FORESTER SENSITIVE SPECIES ARE FOUND DURING PROJECT IMPLEMENTATION BY THE CONTRACTOR OR THE CHIEF, ACTIVITY WILL BE STOPPED IN THE AREA UNTIL A DMRM BIOLOGIST CAN DETERMINE THE POTENTIAL IMPACTS OF THE PROJECT TO THE RARE SPECIES FOUND.

EROSION AND SEDIMENT CONTROL (ESC) NOTES:

- EROSION AND SEDIMENT CONTROL SHALL BE FIELD DIRECTED AS NECESSARY BY THE DIVISION STAFF.
- THE CONTRACTOR SHALL:
1. STABILIZE ALL DISTURBED AREAS TO BE LEFT DORMANT FOR MORE THAN 14 DAYS. STABILIZATION MAY INCLUDE PERMANENT SEEDING, MULCHING, ROCK CHECK DAMS (RCDs) AND STRAW WATTLES.
 2. IN THE EVENT OF WINTER SHUTDOWN, DEVELOP A WINTERIZATION PLAN TO MINIMIZE EROSION AND SEDIMENT CONTROL.
 3. MAKE EVERY EFFORT TO MINIMIZE EROSION.
 4. MAKE EVERY EFFORT TO ENSURE THAT SEDIMENT IS NOT TRANSPORTED OFFSITE.

CONSTRUCTION SEQUENCE

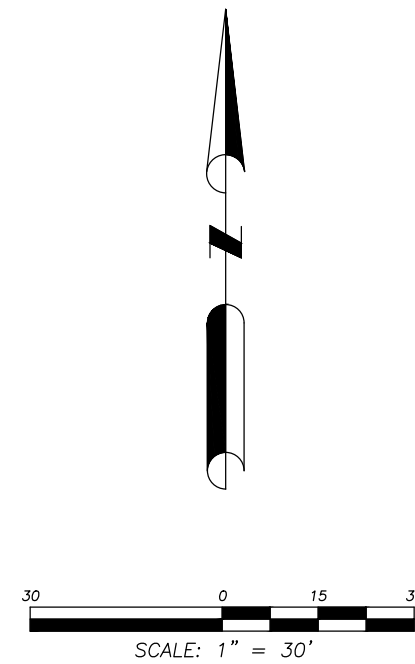
- THE CONTRACTOR SHALL:
1. MOBILIZE EQUIPMENT AND PERSONNEL TO THE SITE AFTER CONTACTING ALL APPLICABLE UTILITY OWNERS AND VERIFYING UTILITY LOCATIONS.
 2. MAINTAIN ACCESS ACCORDING TO THIS PLAN SET.
 3. INSTALL NECESSARY EROSION CONTROL MEASURES.
 4. CLEAR AND GRUB THE SITE.
 5. PLUG THE VERTICAL OPENINGS ACCORDING TO THE PLANS AND SPECIFICATIONS.
 6. PERFORM EARTHWORK TO BACKFILL THE HIGHWALLS.
 7. INSTALL FLEXAMAT CHANNELS.
 8. FERTILIZE, SEED, AND MULCH ALL DISTURBED AREAS ACCORDING TO THIS PLAN SET AND THE APPROPRIATE SPECIFICATIONS.
 9. DEMOBILIZE EQUIPMENT AND PERSONNEL.

SURVEY NOTES:

1. INFORMATION SHOWN HEREIN IS BASED ON INFORMATION PROVIDED BY THE MAN MAPPING.
2. ALL PROPERTY LINES SHOWN ARE FROM THE PERRY COUNTY GIS AND ARE SUBJECT TO ERRORS AND OMISSIONS. ONLY BUILDINGS NEAR WORK LIMITS ARE SHOWN AND LOCATIONS ARE APPROXIMATE.

LEGEND

| | |
|-------|--------------------------|
| —E— | OVERHEAD ELECTRIC |
| —P— | PROPERTY LINE |
| —SF— | SILT FENCE |
| —T— | TELECOMMUNICATIONS LINE |
| —CWL— | CONSTRUCTION WORK LIMITS |
| —GAS— | GAS/OIL LINES |
| —770— | PROPOSED 10' CONTOURS |
| —770— | PROPOSED 2' CONTOURS |
| --- | EX. MINOR CONTOUR |
| --- | EX. MAJOR CONTOUR |
| ⊕ | EX. TELEPHONE POLE |



QUANTITIES

| SPEC | ITEM | QUANTITY | SEE SHEET # |
|------|------------------------------------|-------------|-------------|
| 2100 | MOBILIZATION/ACCESS | 0.7 (LS) | |
| 2121 | CLEARING AND GRUBBING | 3.5 (ACRE) | |
| 2200 | EARTHWORK (EST. 15,000 CY) | 0.98 (LS) | |
| 2301 | DEBRIS REMOVAL AND DISPOSAL | 20 (TON) | |
| 2702 | SPECIFIC WORK ALLOWANCE | 5000 (EACH) | |
| 3130 | TYPE C RCP | 30 (TON) | 12,13 |
| 3211 | FILTER FABRIC | 117 (SY) | |
| 3231 | PREFABRICATED BLOCK CHANNEL LINING | 6975 (SF) | 11,12 |
| 3410 | SILT FENCE/STRAW BALE DIKES | 1400 (LF) | 13 |
| 3451 | #3 & #4 STONE | 28 (TON) | 12 |
| 3454 | #57 STONE | 80 (TON) | |
| 6100 | STANDARD REVEGETATION | 3.5 (ACRE) | |
| 6310 | LIME | 9 (TON) | |
| 9420 | OIL/GAS WELL ABANDONMENT | 1.0 (LS) | 5 |
| 9421 | GAS LINE RELOCATION | 1000 (LF) | |
| 9991 | SURVEYING | 1.0 (LS) | |

SEE SHEETS 6-10 FOR SECTION VIEWS
SEE SHEETS 11-13 FOR DETAILS



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COMBO PERRY CO. RECLAMATION 2024
PERRY COUNTY RECLAMATION PROJECT No. CO-PR-24

SALT LICK PROPOSED

DATE: OCTOBER, 2024

REVISIONS

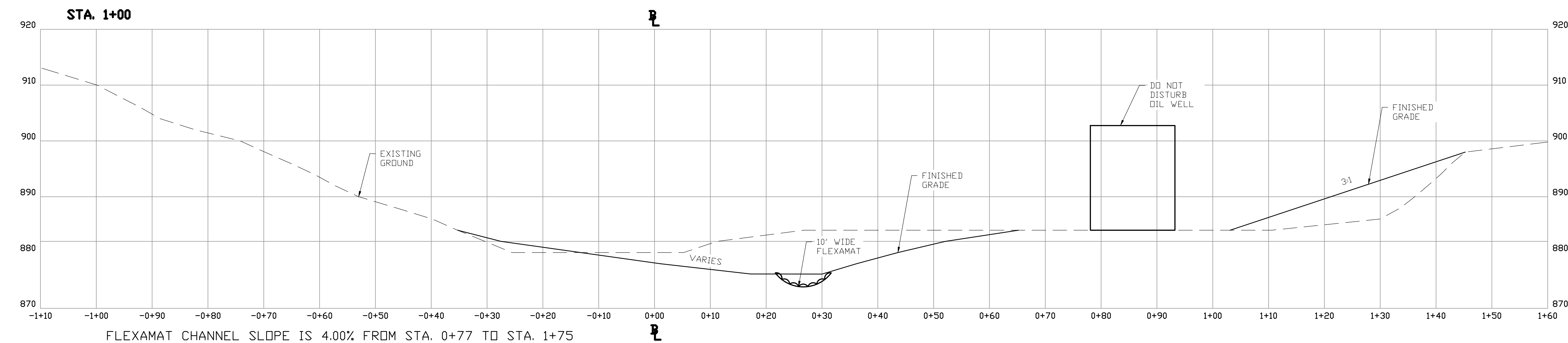
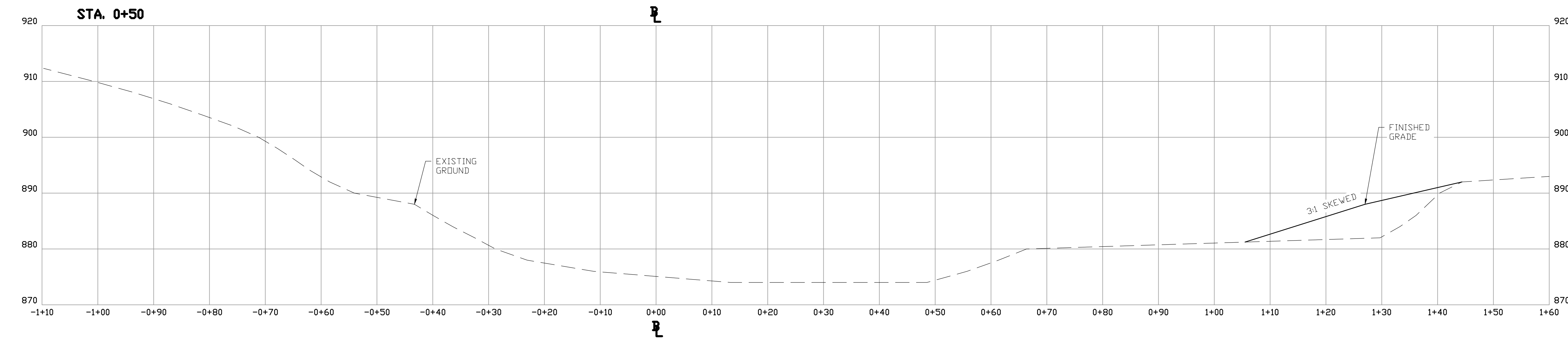
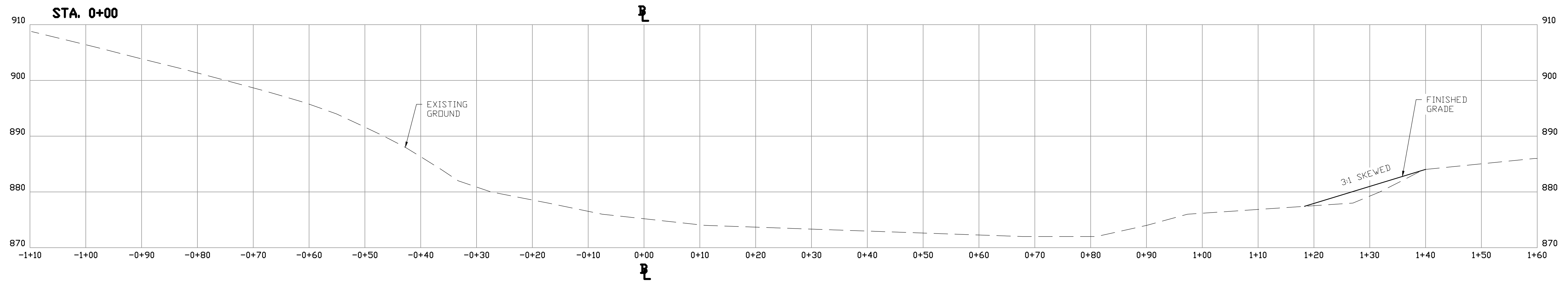
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ZALESKI OFFICE
N.R.E.A. R. WARNER, P.E.
N.R.E.Z. KRIS GILLESPIE
P.O. K. CUNNINGHAM



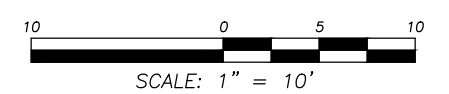
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FLEXAMAT CHANNEL SLOPE IS 4.00% FROM STA. 0+77 TO STA. 1+75



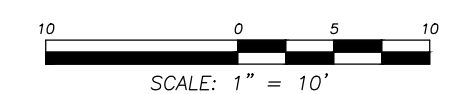
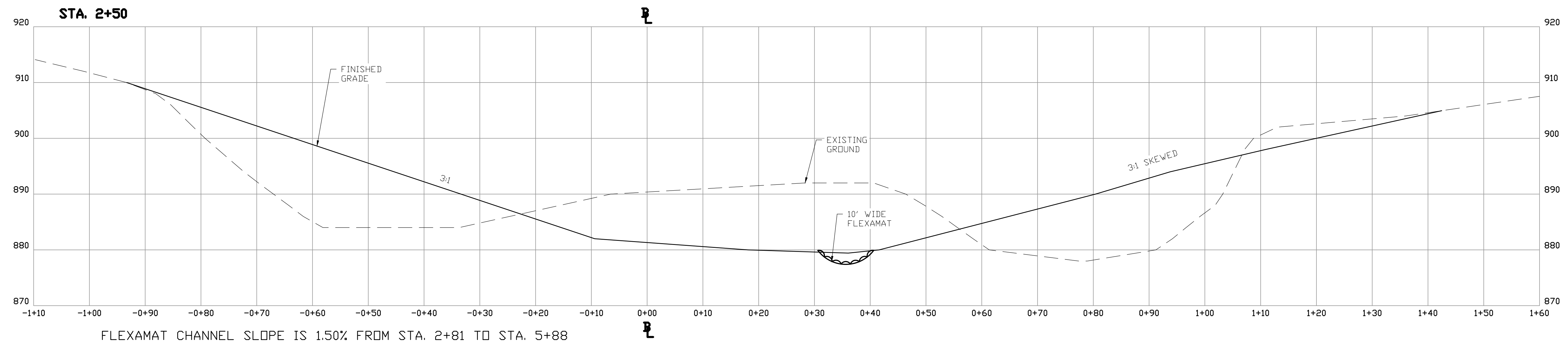
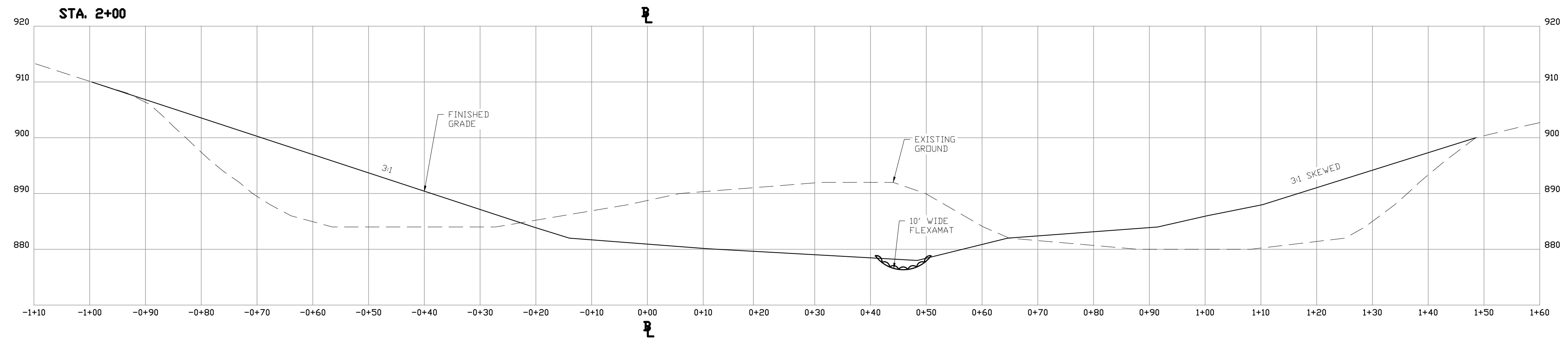
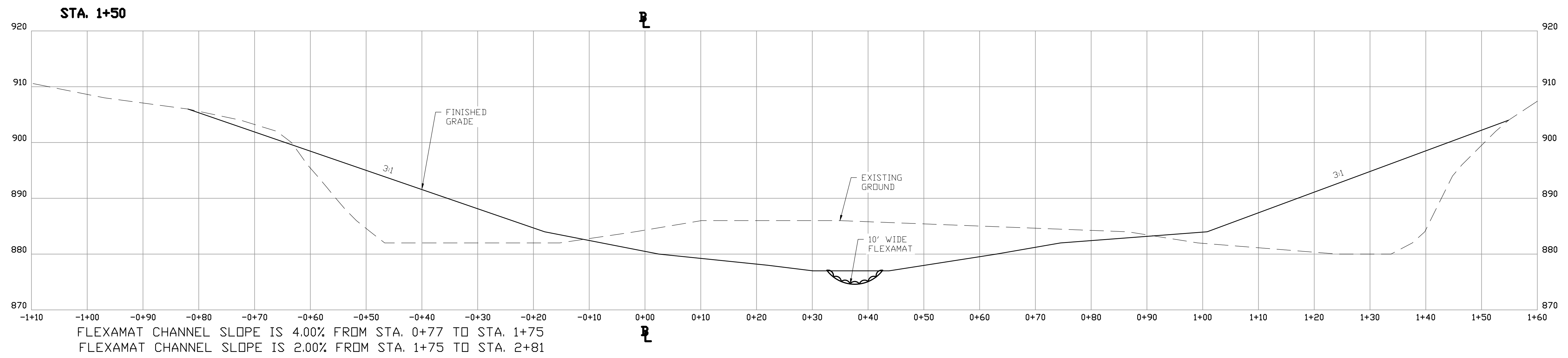
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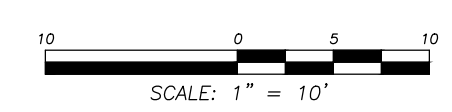
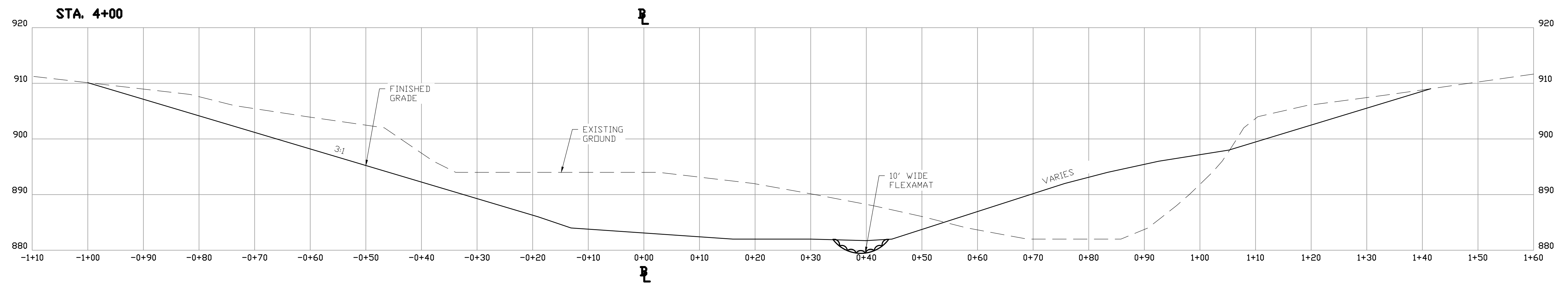
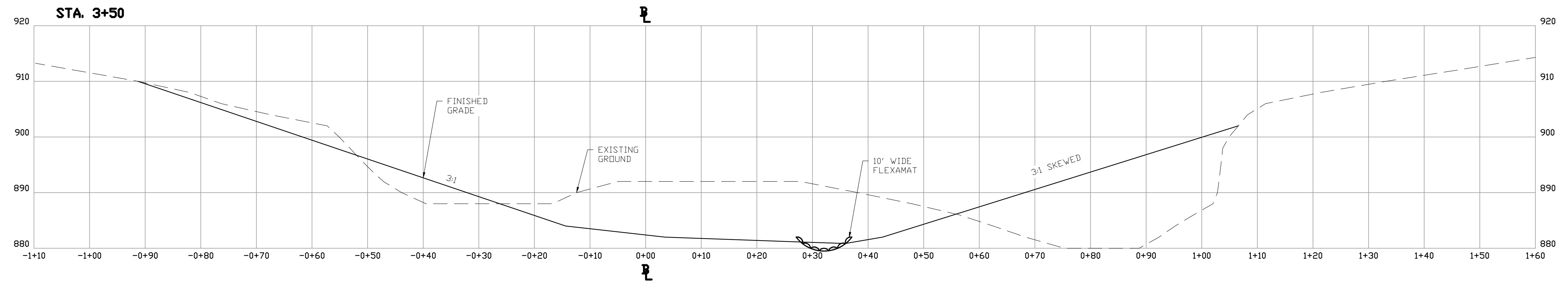
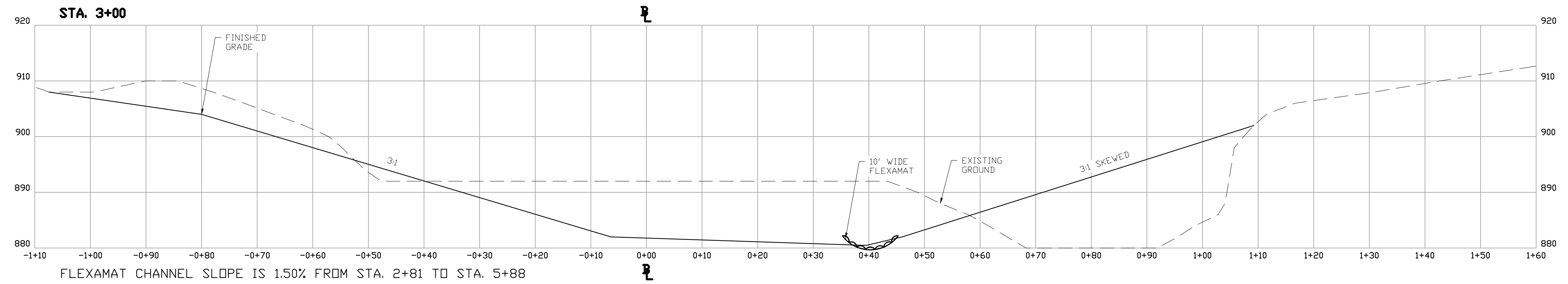
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SCALE: 1" = 10'



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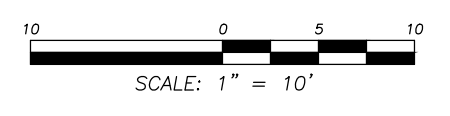
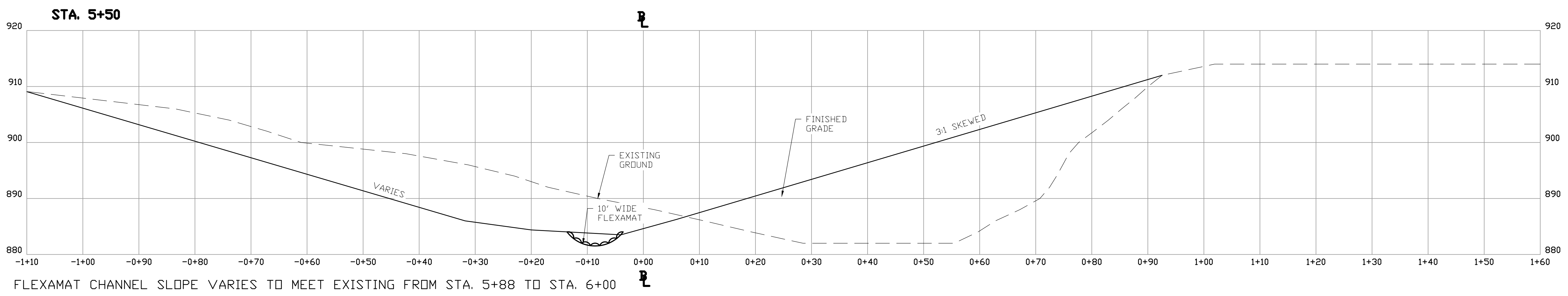
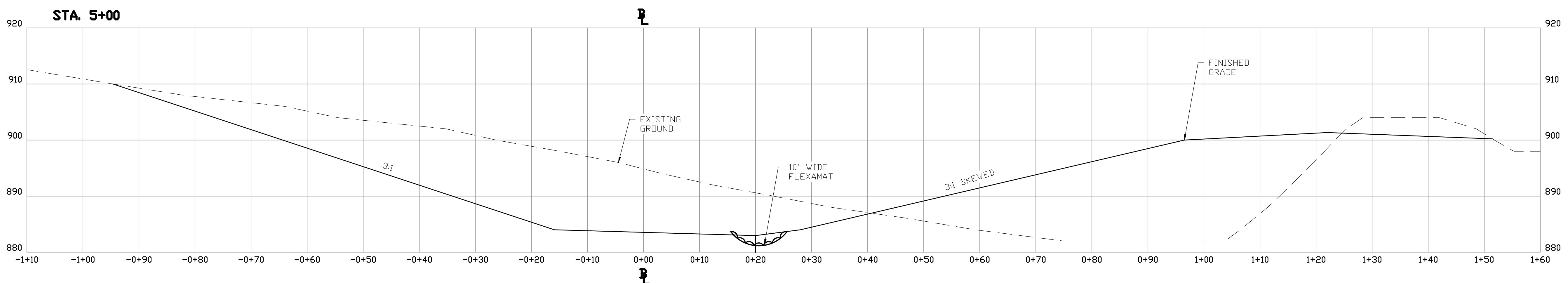
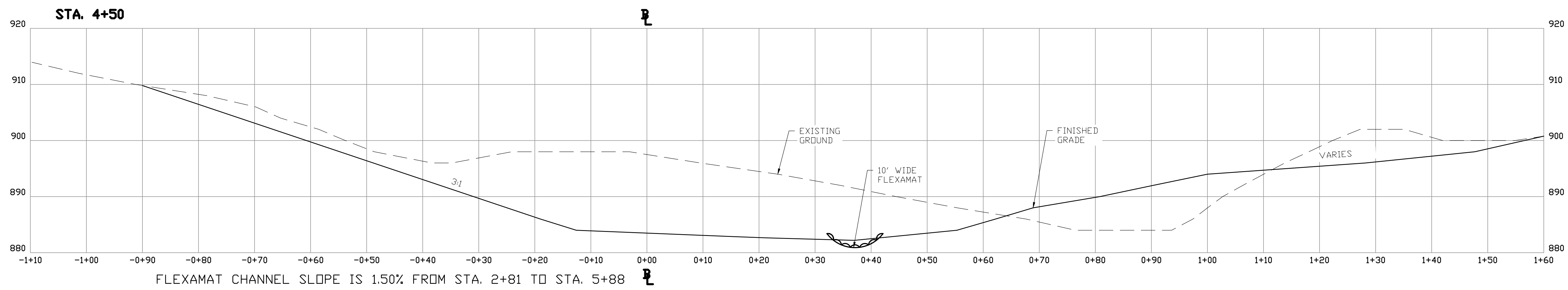
COMBO PERRY CO. RECLAMATION 2024
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SALT LICK CROSS SECTIONS

DATE:
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REVISIONS

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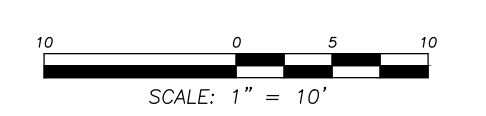
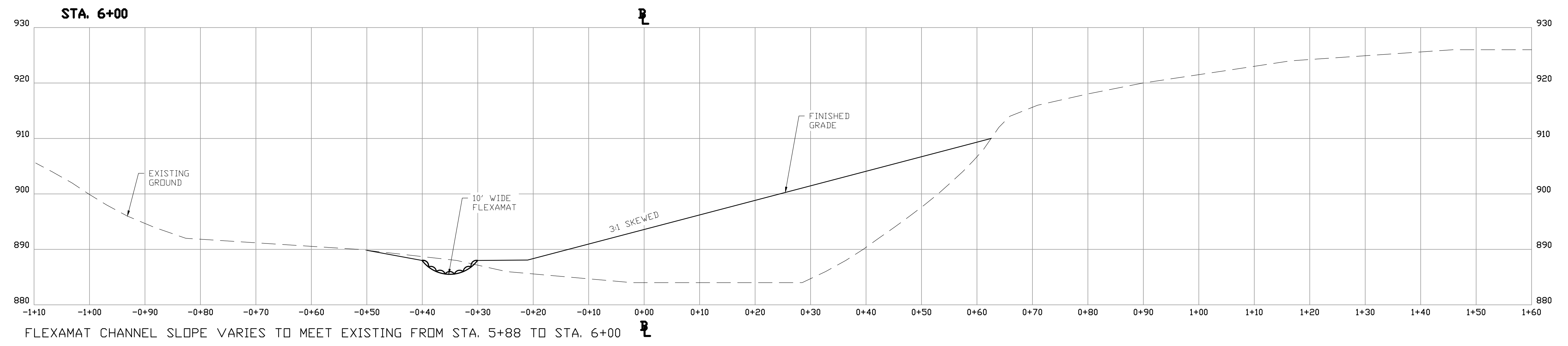


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PERRY COUNTY RECLAMATION PROJECT No. CO-PR-24
SALT LICK CROSS SECTIONS

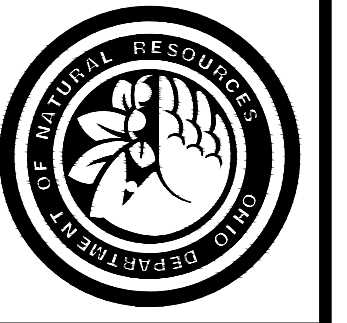
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N.E.E. R. WARNER, P.E.
N.E.E. KRIS GILLESPIE
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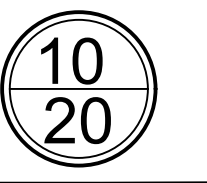
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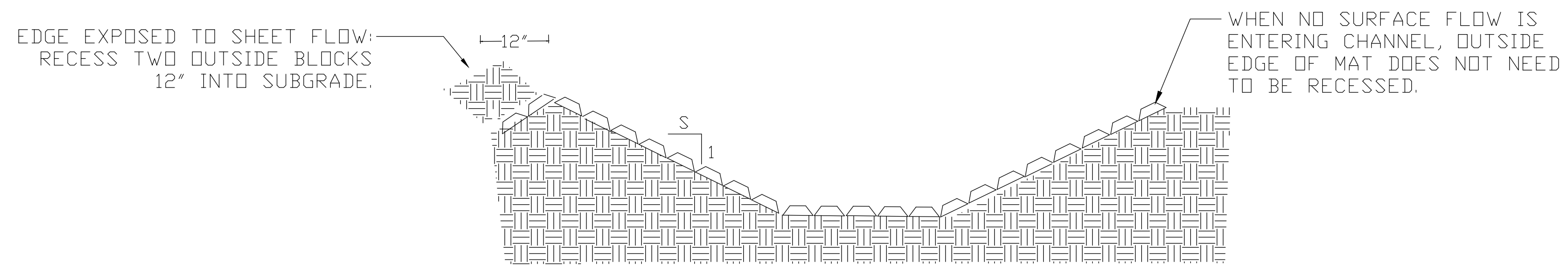
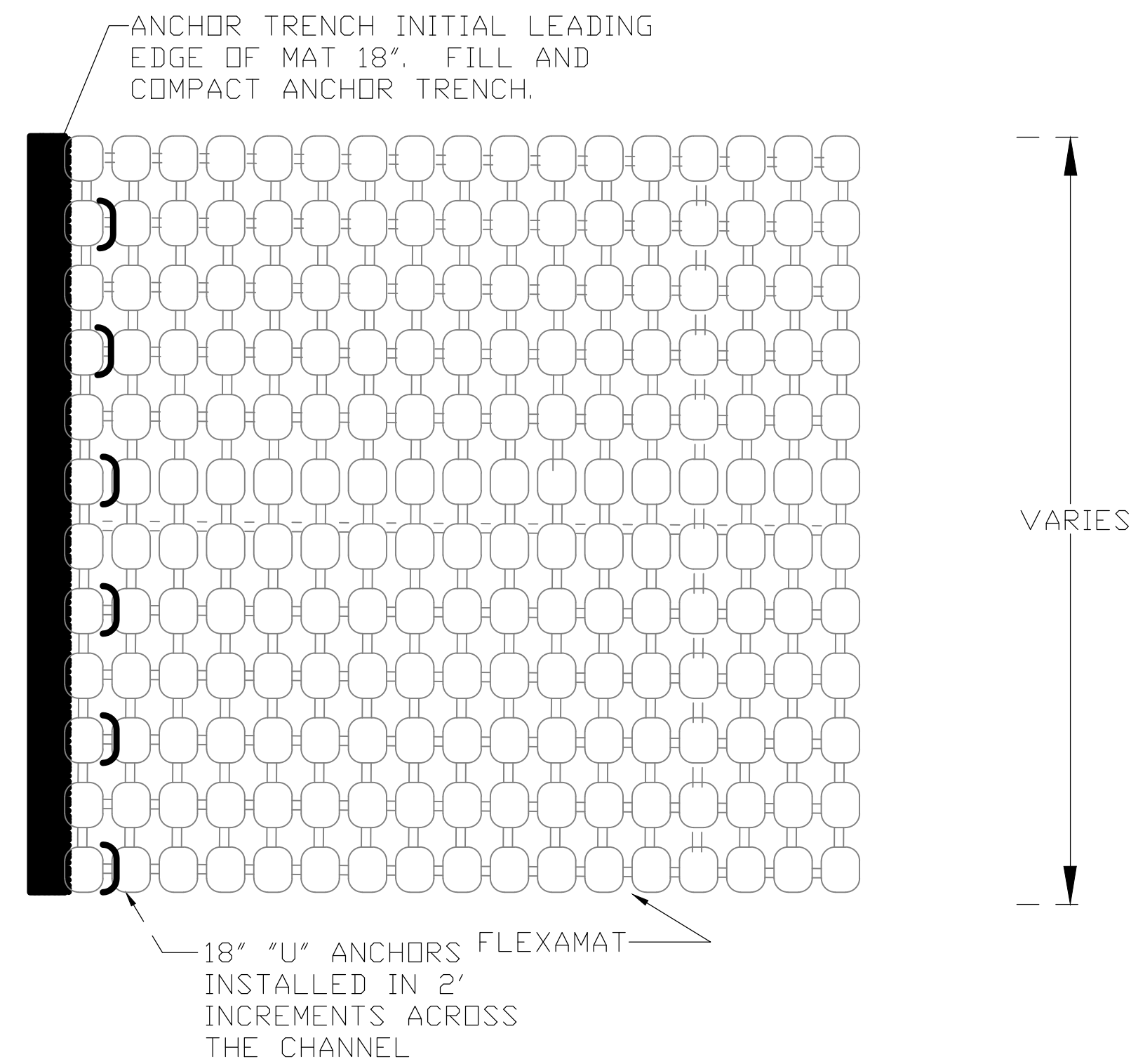
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 P.O. K. CUNNINGHAM





TIED CONCRETE BLOCK MAT (TCBM)
N.T.S.

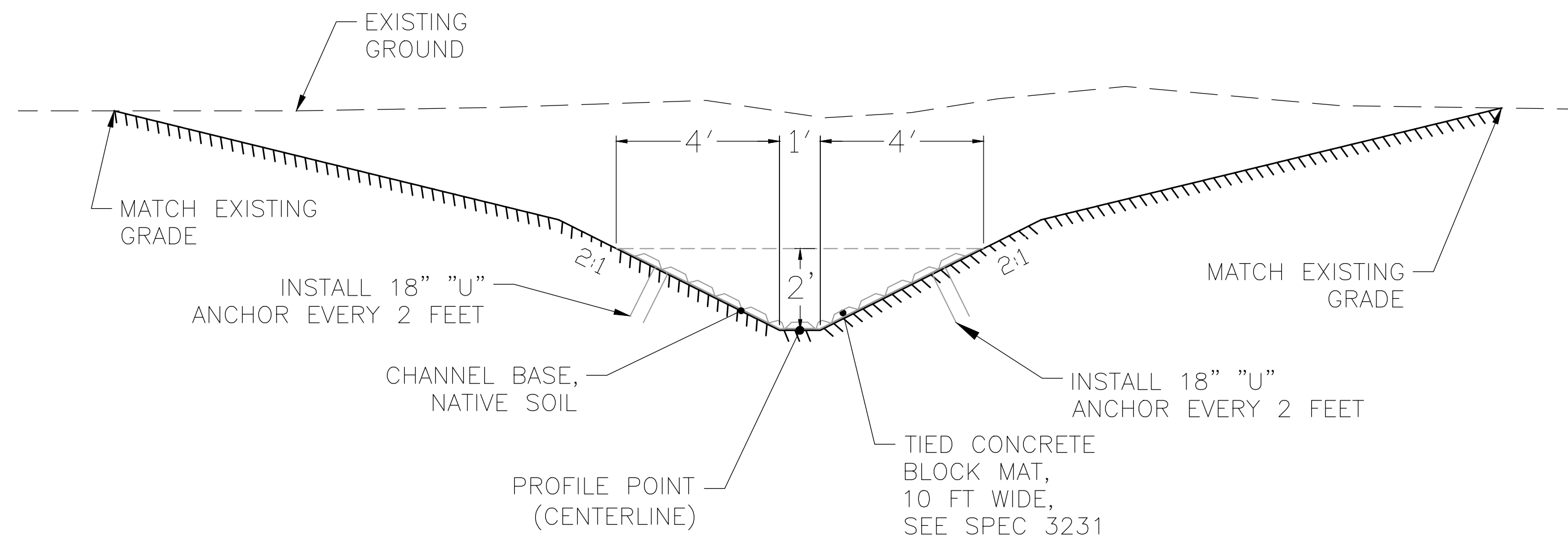
FLEXAMAT INFORMATION

Manufacturer: Motz Enterprises, Inc.
 Product Name: Flexamat®
 Address: 3153 Madison Road
 Cincinnati, Ohio 45209
 Telephone: 513-772-MOTZ (6689)
 Fax: 513-772-6690
 Contact: Matt Motz
 Email: Matt@Flexamat.com
 Website: www.Flexamat.com

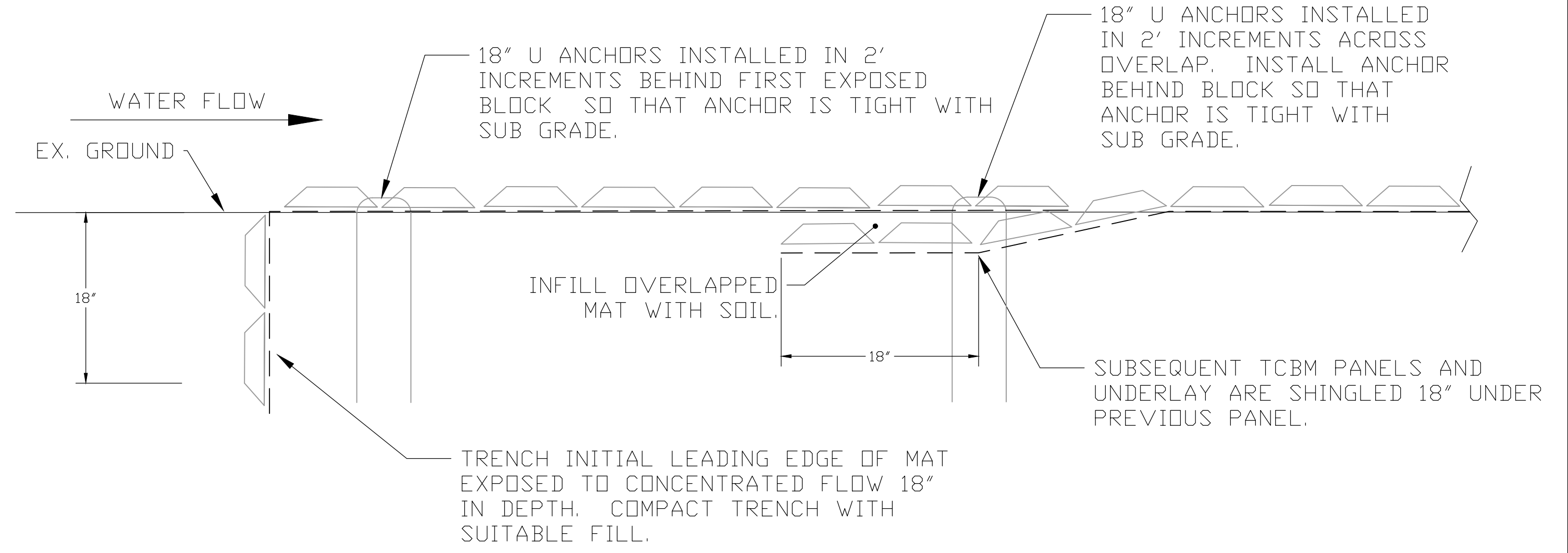
CONSTRUCTION NOTES:

1. GRADE CHANNEL SO THAT WATER WILL FLOW DOWN THE CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM UNYIELDING FOUNDATION FOR THE MATS WITH NO SHARP OR ABRUPT BREAKS IN THE GRADE.
2. APPLY SEED DIRECTLY TO THE PREPARED SOIL PRIOR TO FLEXAMAT INSTALLATION. USE SEED PER PROJECT SPECIFICATIONS.
3. INSTALL FLEXAMAT ROLLS. AVAILABLE WIDTHS ARE 4', 5.5', 8', 10', 12', & 16' AVAILABLE IN CUSTOM LENGTHS. FOR WIDER WIDTHS, INSTALL MATS ADJACENT TO EACH OTHER. (CONTACT MANUFACTURER FOR DETAIL ADDRESSING LONGITUDINAL SEAMS.)
4. AT THE TOP OF THE CHANNEL, THE INITIAL LEADING EDGE OF FLEXAMAT EXPOSED TO CONCENTRATED FLOWS SHALL BE EMBEDDED 18" VERTICALLY INTO THE SUB GRADE TO SERVE AS AN ANCHOR TRENCH. THE TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL OR OTHER.
5. FOR ADDITIONAL SECTIONS OF MAT, OVERLAP THE DOWNSTREAM SECTION 18" WITH UPSTREAM SECTION OF MAT. PRIOR TO INSTALLING OVERLAP, FLIP UPSTREAM MAT BACK 24". EXCAVATE 2.25" OF SOIL 18" FROM END OF UPSTREAM MAT. DOWNSTREAM SECTION IS LAID IN THE SHALLOW TRENCH. LIGHTLY SPREAD TOPSOIL OVER INITIAL EDGE. FLIP END OF UPSTREAM MAT OVER THE SOIL COVERED INITIAL LEADING EDGE OF DOWNSTREAM MAT.
6. INSTALL 18" "U" ANCHORS IN 2' INCREMENTS ACROSS THE OVERLAP. INSTALL ANCHORS DIRECTLY BEHIND BLOCKS. "U" ANCHORS CONSIST OF #2 REBAR "U" ANCHOR WITH 18" LEGS.
7. AT THE END OF THE ARMORED CHANNEL, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH SUITABLE FILL.

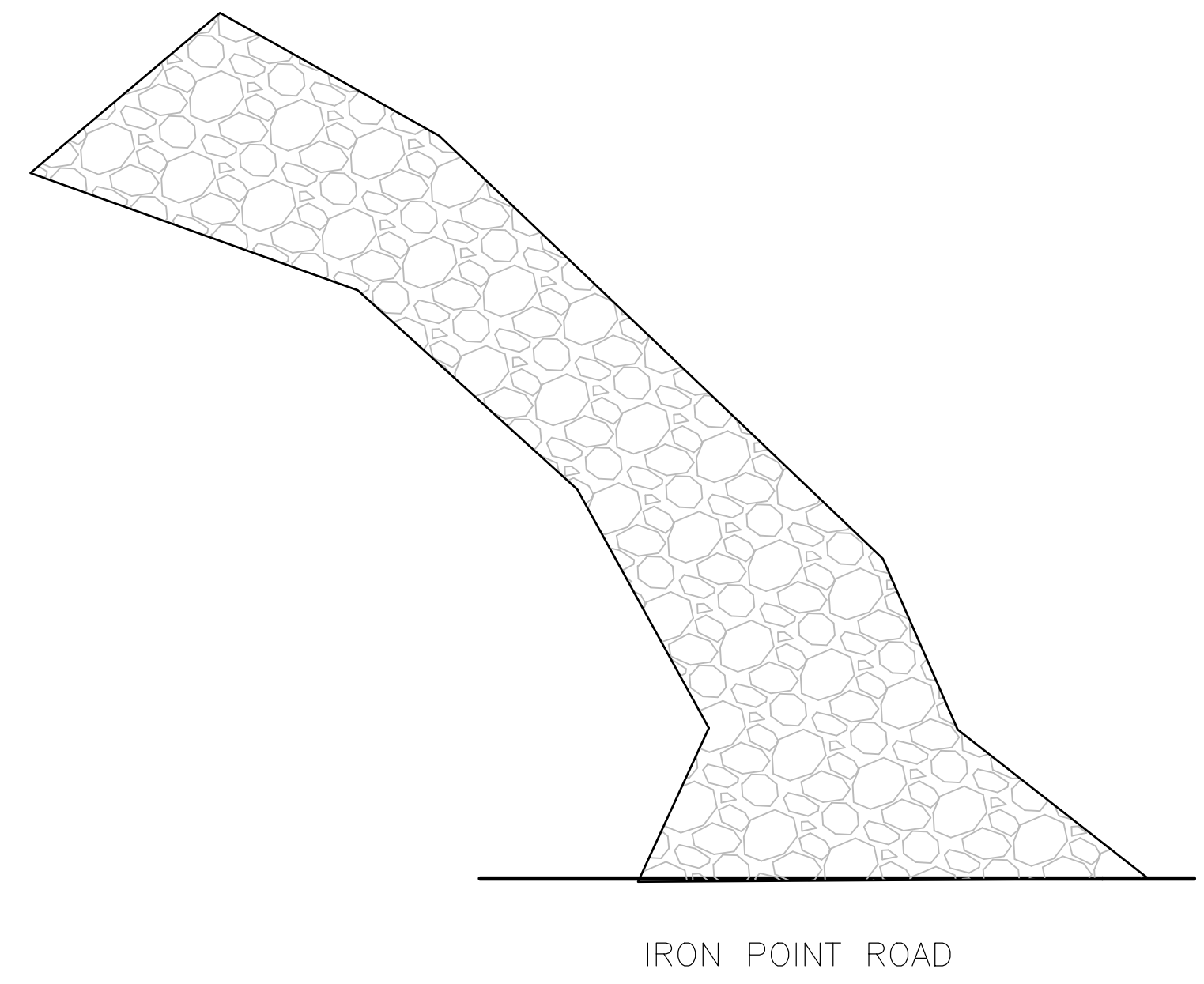




A
12
10' WIDE TIED CONCRETE BLOCK MATTING (TCBM) CHANNEL X-SECTION (TYP.)
N.T.S.

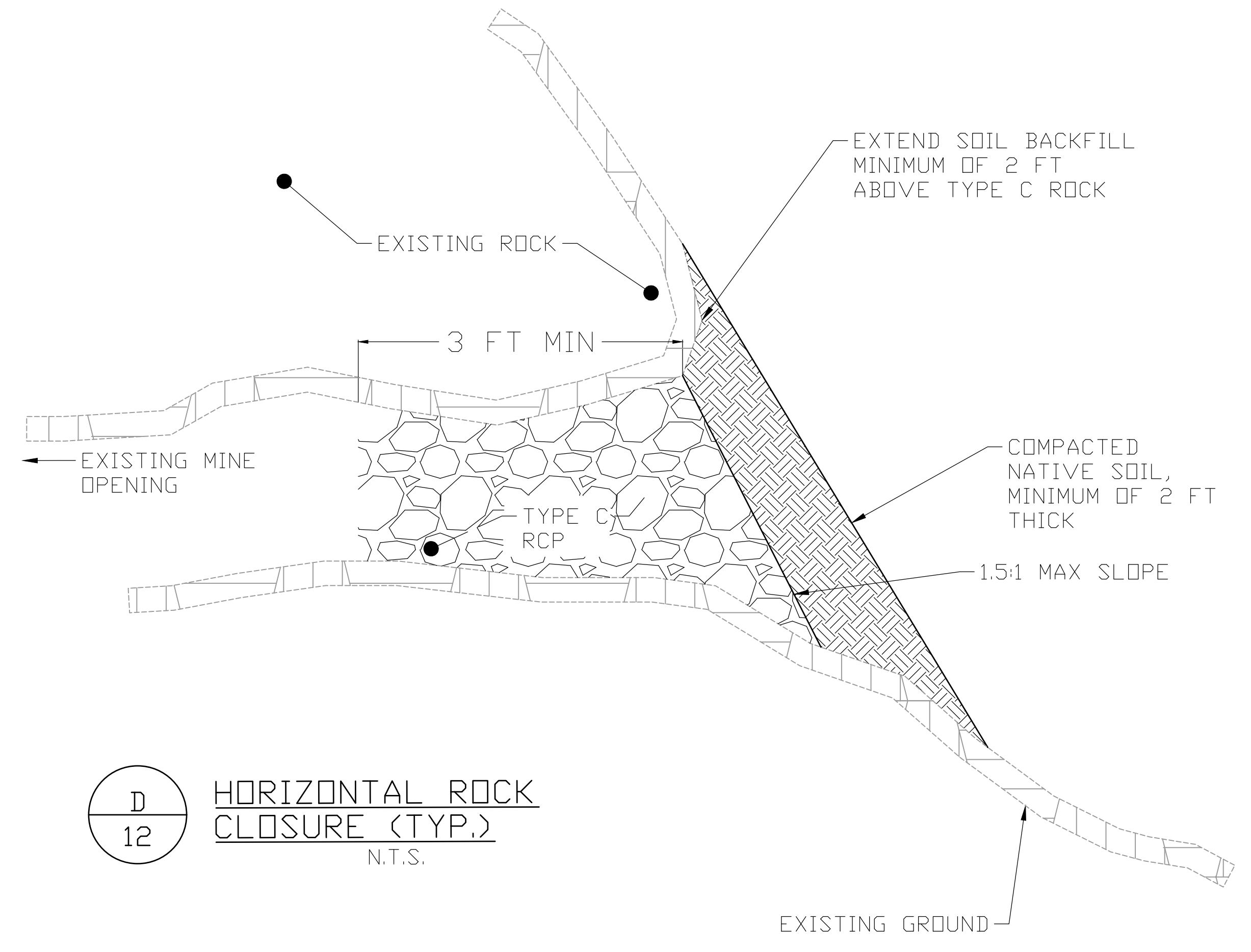


B
12
TIED CONCRETE BLOCK MATTING (TCBM) DITCH LEADING EDGE & JOINT DETAIL (TYP.)
N.T.S.



CONSTRUCTION ENTRANCE SHALL BE 3" OF #3/#4 STONE.

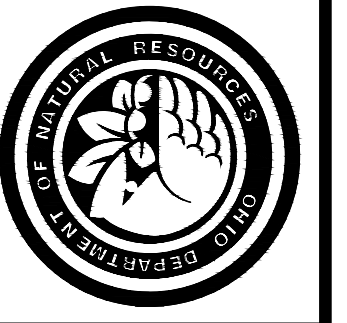
C
12
70' x 12' CONSTRUCTION ENTRANCE
N.T.S.



D
12
HORIZONTAL ROCK CLOSURE (TYP.)
N.T.S.



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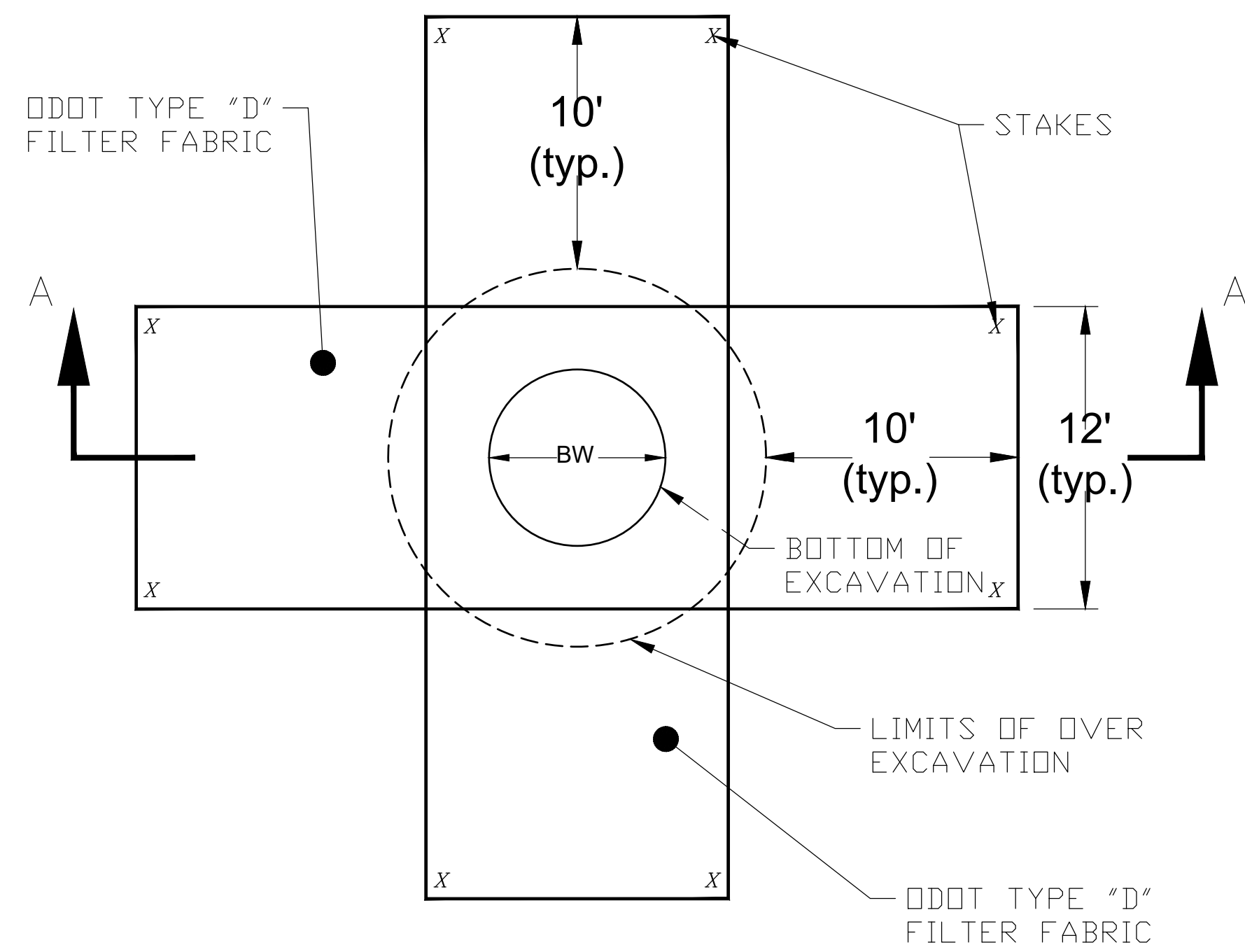


COMBO PERRY CO. RECLAMATION 2024
PERRY COUNTY RECLAMATION PROJECT No. CO-PR-24
SALT LICK/JOHNSON RUN DETAILS

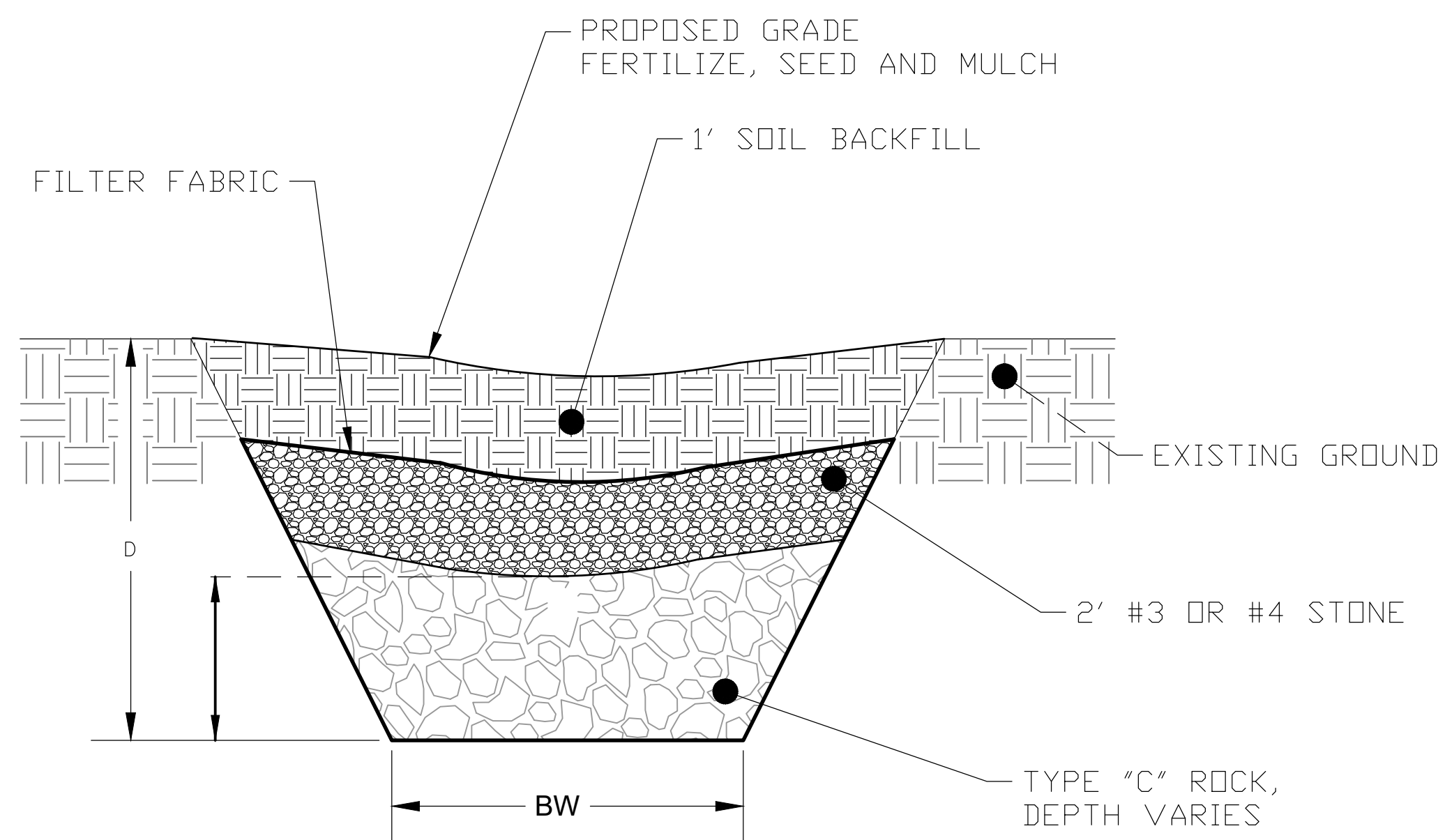
DATE:
OCTOBER, 2024

REVISIONS

DESIGN UNIT
ZALESKI OFFICE
N.R.E. R. WARNER, P.E.
N.R.E. KRIS GILLESPIE
P.O. K. CUNNINGHAM



PLAN VIEW

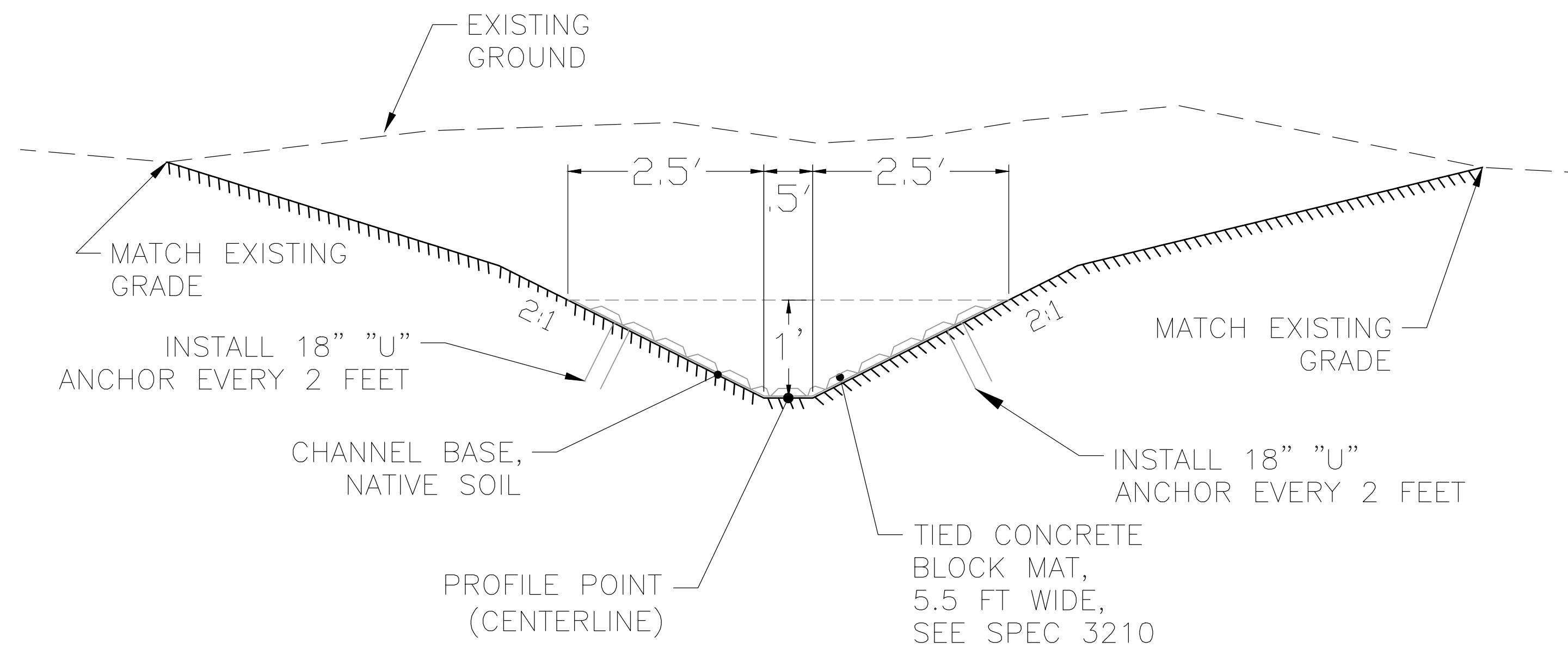


SECTION A-A

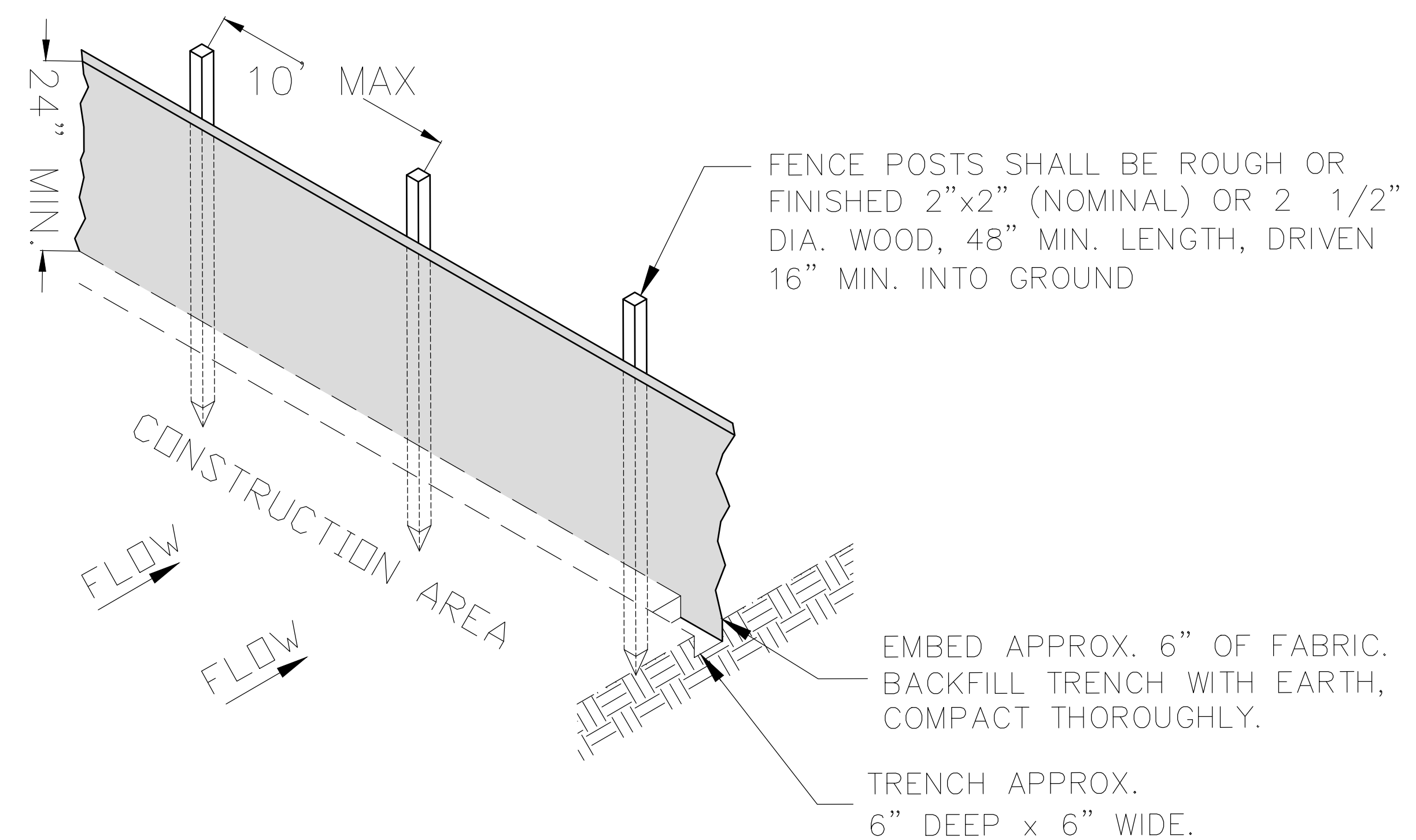
A
13
10'x18' ENCAPSULATED AGGREGATE PLUG (TYP.)
N.T.S.

NOTES:

1. SEE THE ESTIMATED CLOSURE QUANTITIES TABLE ON SHEET 5 FOR THE ESTIMATED DIMENSIONS OF EACH EAP. ACTUAL DIMENSIONS TO BE DETERMINED BY SITE CONDITIONS AND THE CHIEF. QUANTITIES TO BE VERIFIED IN THE FIELD.
2. EXISTING ACCESS ROADS SHALL BE MAINTAINED IN A CONDITION THAT IS EQUAL TO OR BETTER THAN BEFORE CONSTRUCTION.
3. A "SAFETY ZONE" SHALL BE ESTABLISHED AROUND THE VOID BY THE CONTRACTOR. THE SAFETY ZONE SHALL EXTEND 50 FEET BEYOND THE LIMITS OF THE DEPRESSION OF THE VOID. THE SAFETY ZONE SHALL BE CLEARLY MARKED IN THE FIELD AND PRESENT A VISIBLE BARRIER TO PERSONNEL WORKING IN THE AREA.
4. FILTER FABRIC SHALL BE POSITIONED AS SHOWN IN THE EXCAVATED AREA AND SHALL BE STAKED DOWN. ONCE STONE HAS BEEN PLACED, THE LOOSE FABRIC SHALL BE LAID BACK OVER THE STONE.
5. UNDERGROUND UTILITY LINES AND APPURTENANCES ARE SHOWN AS LOCATED IN THE FIELD AND/OR AS REPORTED BY THE RESPECTIVE OWNERS. NOT ALL OF THE NUMBERS, TYPES, SIZES, OR LOCATIONS CAN BE GUARANTEED; THEREFORE, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES.



B
13
5.5' WIDE TIED CONCRETE BLOCK MATTING (TCBM) CHANNEL
X-SECTION (TYP.)
N.T.S.



C
13
SILT FENCE
N.T.S.

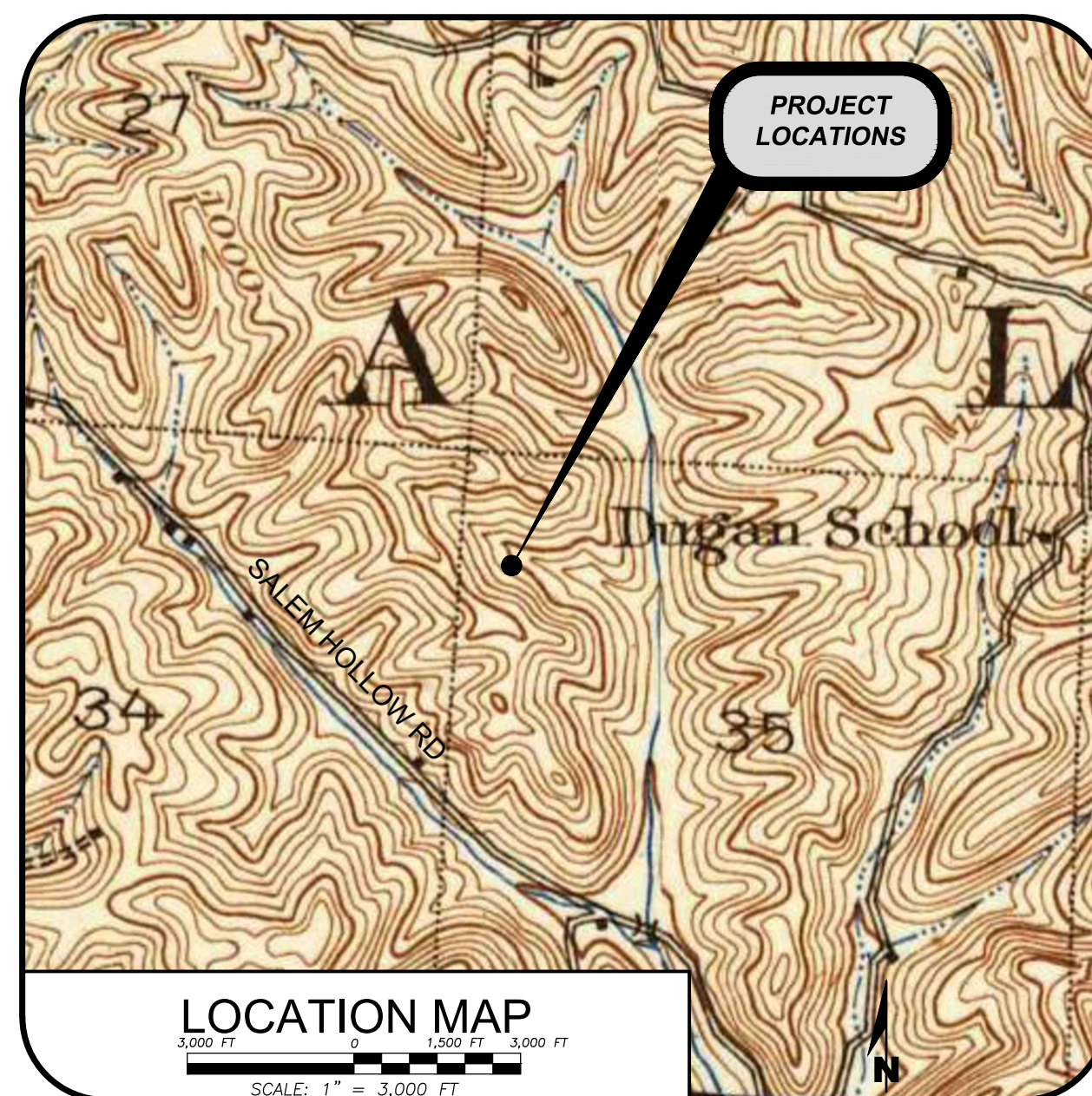
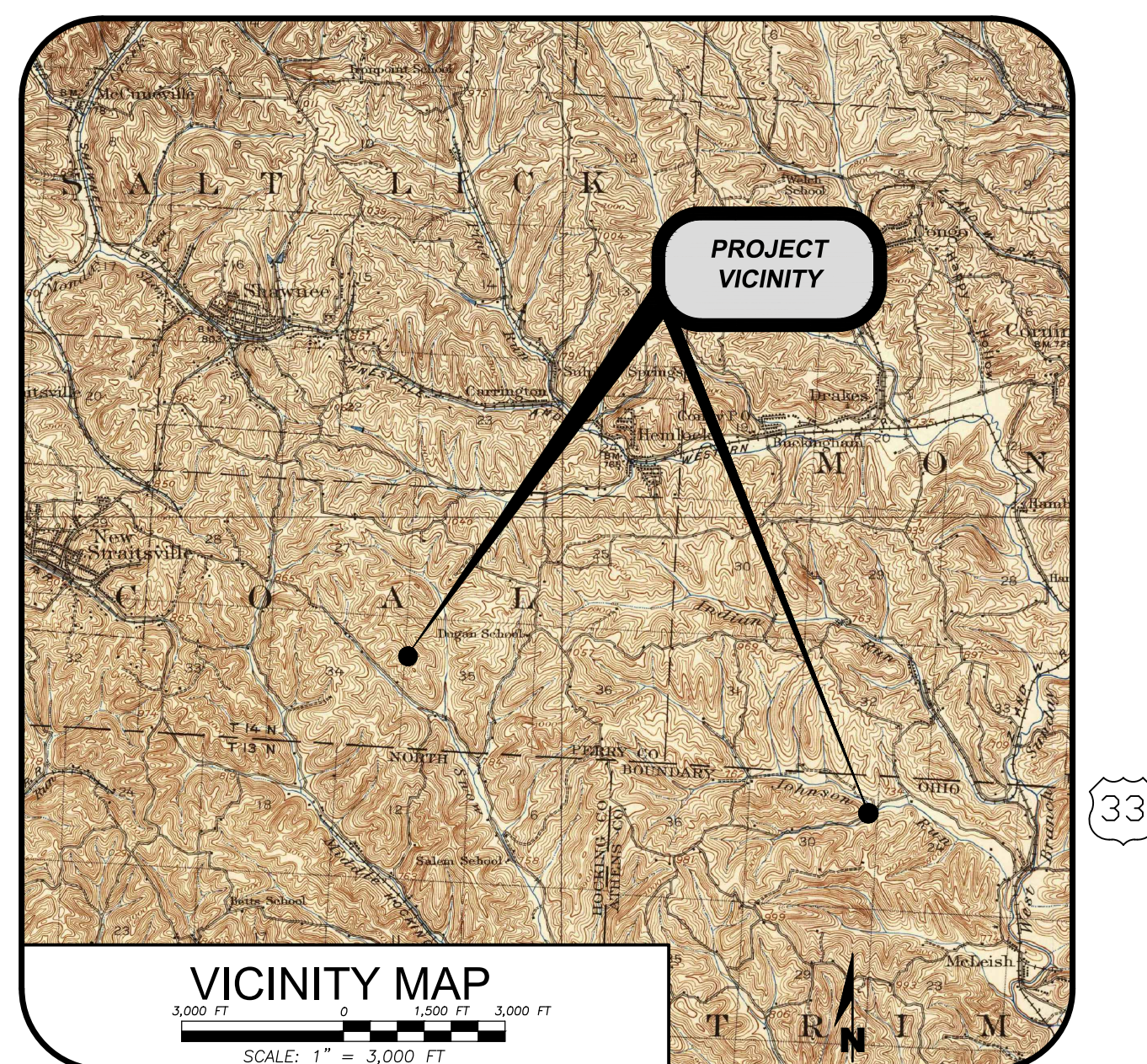
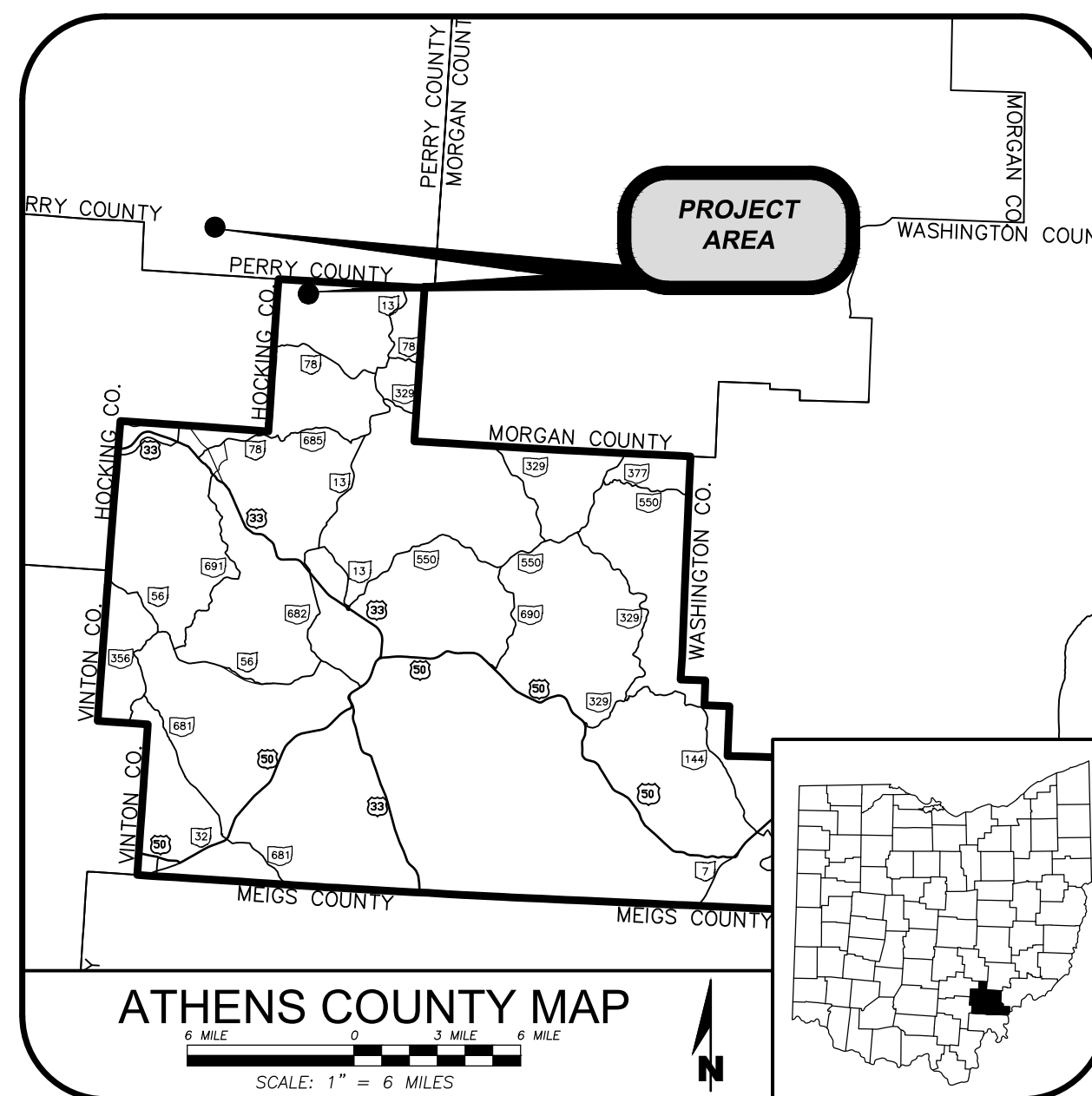
NOTE: FABRIC TO BE FASTENED SECURELY TO FENCE POST AS PER MANUFACTURER'S RECOMMENDATIONS. ENDS OF INDIVIDUAL ROLLS OF FABRIC SHALL BE SECURELY FASTENED TO A COMMON POST OR OVERLAPPED 3" MIN.



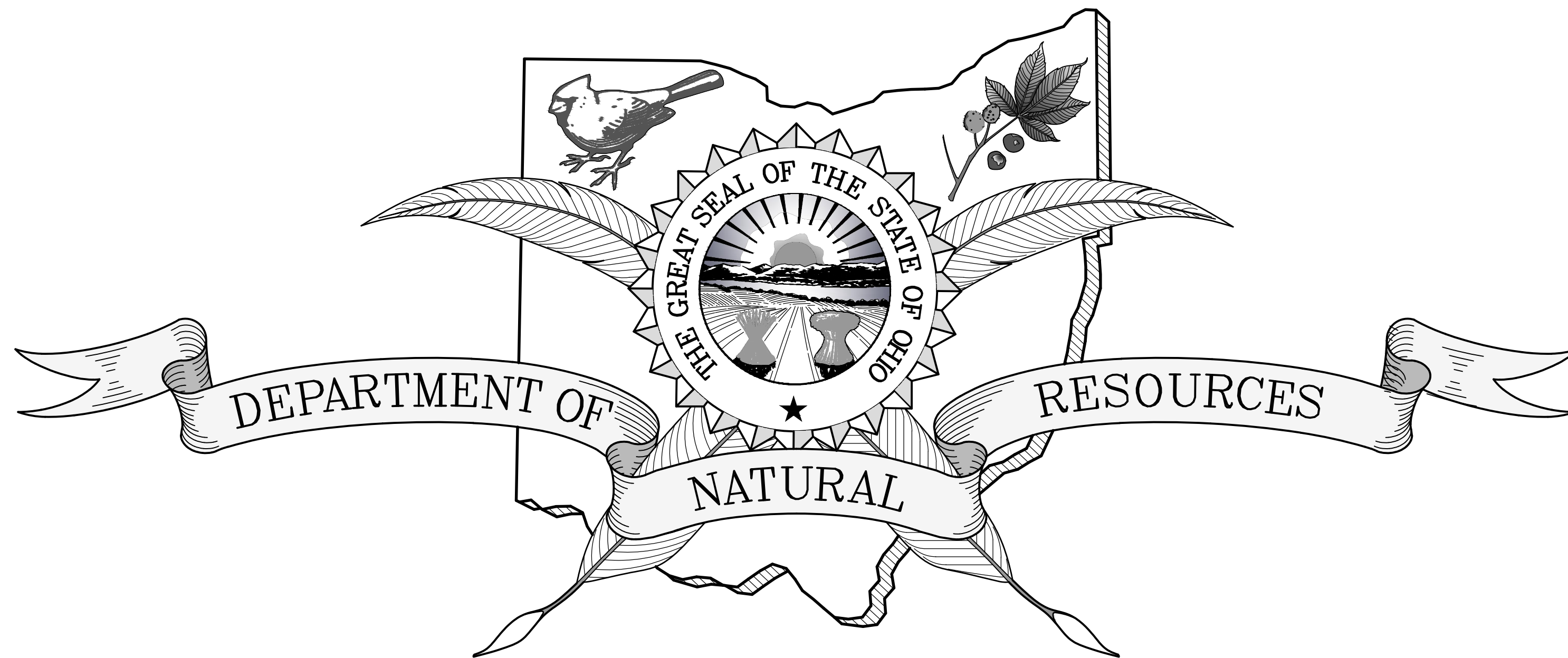
DATE:
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REVISIONS

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SALEM HOLLOW PROJECT



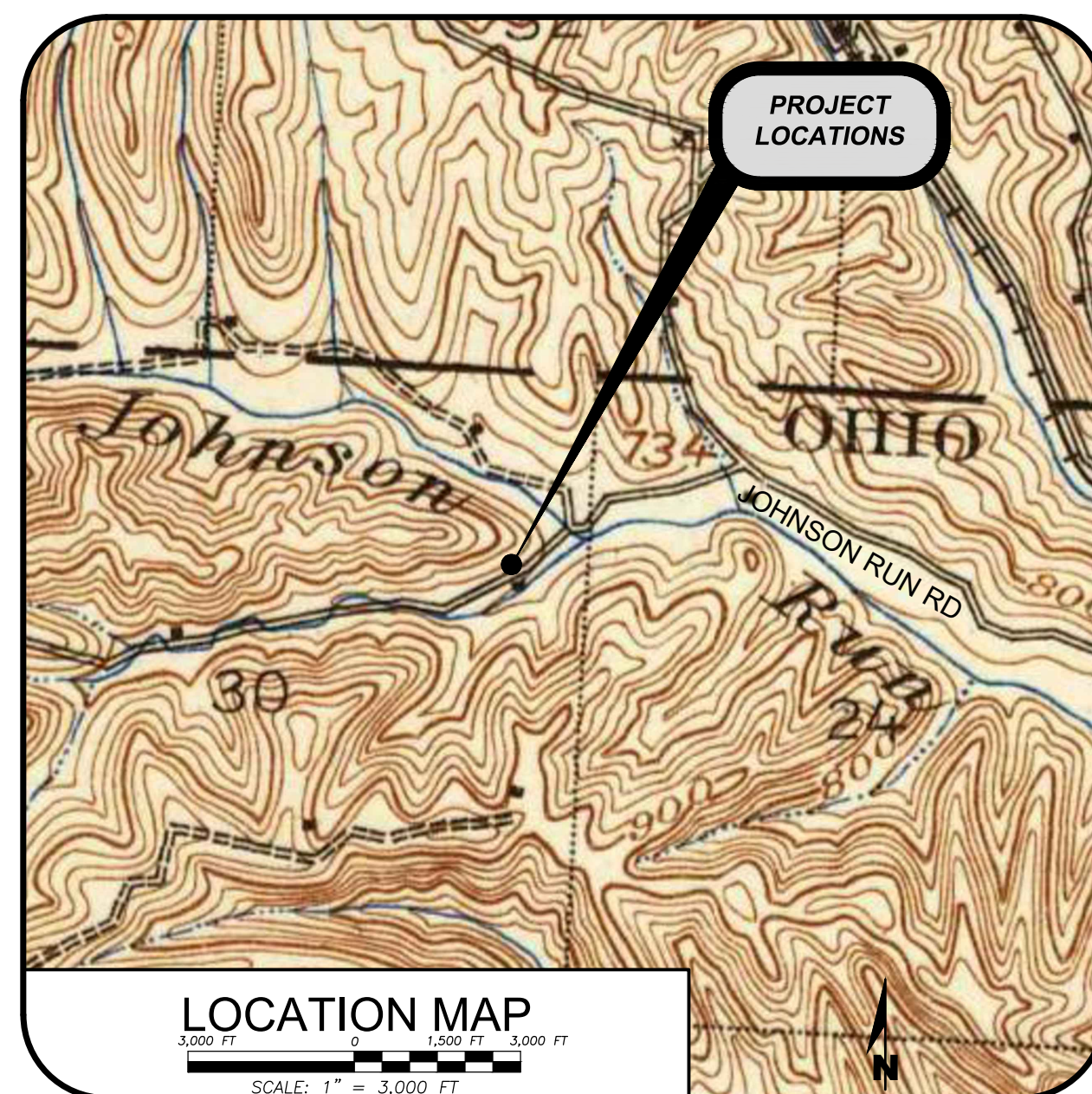
DIVISION OF MINERAL RESOURCES MANAGEMENT

JOHNSON RUN PORTALS

TRIMBLE TOWNSHIP, ATHENS COUNTY

COAL TOWNSHIP, PERRY COUNTY

RECLAMATION PROJECT No. AT-Tm-29



JOHNSON RUN PROJECT

SHEET INDEX

| TITLE | SHEET |
|-----------------------|-------|
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| JOHNSON RUN AERIAL | 15 |
| JOHNSON RUN PROPOSED | 16 |
| SALEM HOLLOW AERIAL | 17 |
| SALEM HOLLOW PROPOSED | 18 |
| DETAILS | 19-20 |

LAND OWNERS

USFS
SR33
NELSONVILLE, OHIO 45732

CONTACT INFORMATION

DIVISION OF MINERAL RESOURCES MANAGEMENT
OHIO DEPARTMENT OF NATURAL RESOURCES
29371 WHEELABOUT ROAD, MCARTHUR, OHIO 45651
PH: (740) 274-4943 FAX: (740) 274-4937



OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE (www.ogpups.com)
1-800-925-0988

CALL TWO WORKING DAYS BEFORE YOU DIG (NON MEMBERS MUST BE CALLED DIRECTLY)

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN APPROXIMATELY, BASED EITHER ON REPORTING BY RESPECTIVE OWNERS AND/OR BY FIELD LOCATION. HOWEVER, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ALL DAMAGES THAT MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL MAINTAIN A CURRENT 10 DAY OUPS TICKET DURING THE ENTIRE PROJECT BY CONTACTING OUPS EVERY 10 DAYS.

UTILITY CONTACT INFORMATION

| UTILITY COMPANY | UTILITY | PHONE # | MEMBER | NON-MEMBER |
|--------------------------------------|----------|----------------|--------|------------|
| AEP OHIO | ELECTRIC | 1-800-277-2177 | X | |
| AT&T | PHONE | 1-800-288-2747 | X | |
| SOUTHERN PERRY COUNTY WATER | WATER | 740-347-9030 | X | |
| OLD STRAIGHTSVILLE WATER ASSOCIATION | WATER | 740-385-0120 | X | |

PROJECT DESCRIPTION

THE INTENT OF THIS PROJECT IS TO FILL AND CAP MULTIPLE SUBSIDENCES AND MULTIPLE PORTALS LOCATED ON THE U.S. FOREST SERVICE PROPERTY IN ATHENS AND PERRY COUNTY. THE FIRST SITE IS LOCATED OFF OF JOHNSON RUN ROAD AND CONSISTS OF TWO SMALL PORTALS (3' x 3' x 10' DEEP) TO BE CAPPED WITH PUF AND NATIVE SOIL.

THE SECOND SITE WILL BE ACCESSED VIA AN OIL PATH TRAIL CONNECTED TO SALEM HOLLOW ROAD. MULTIPLE STREAM CROSSINGS WILL BE REQUIRED TO ACCESS THE SUBSIDENCE MEASURING (37' x 47' x 25' DEEP). PUF WILL BE USED TO PLUG THE SUBSIDENCE AND NATIVE SOIL ADJACENT TO THE SITE WILL BE USED FOR A CAP. ALL FEATURES WILL BE REVEGETATED AND THE DRIVEWAY CAPPED WITH STONE.



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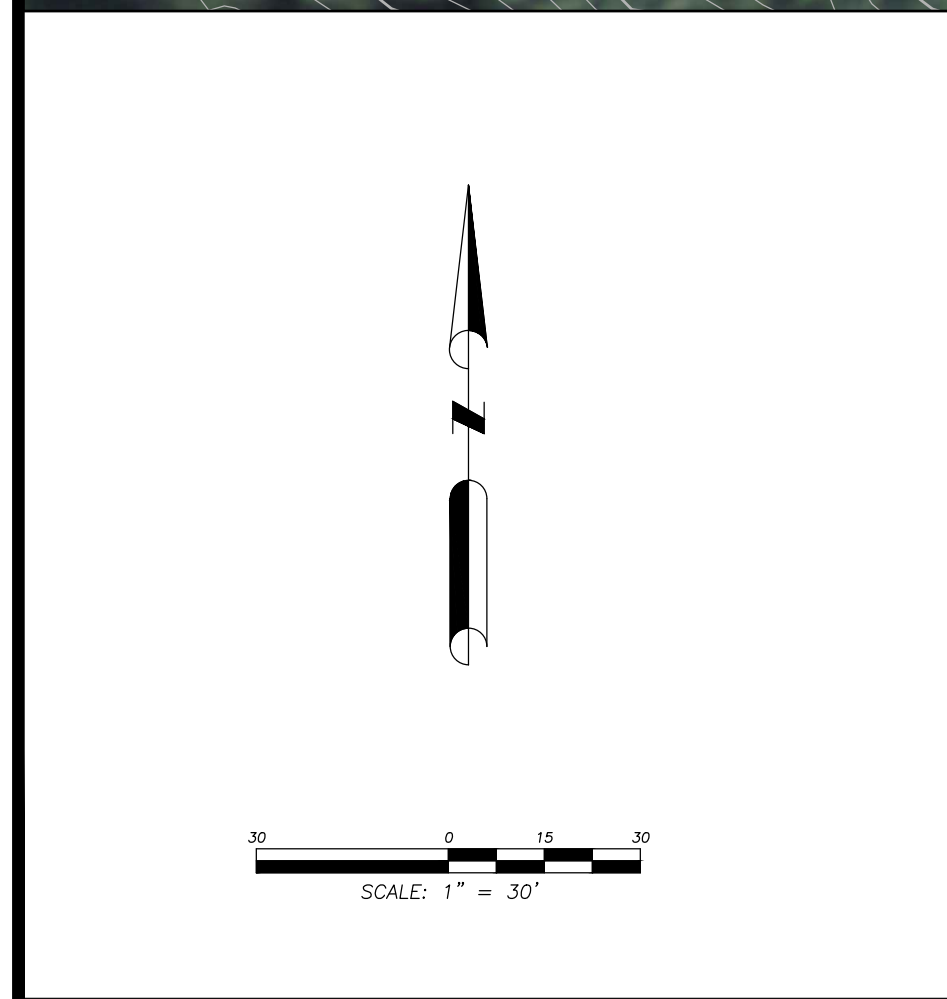
COMBO PERRY CO. RECLAMATION 2024
PERRY COUNTY RECLAMATION PROJECT No. CO-PR-24

JOHNSON RUN TITLE SHEET

DATE:
OCTOBER, 2024

REVISIONS

DESIGN UNIT
ZALESKI OFFICE
N.E.E. R. WARNER, P.E.
N.E.E. KRIS GILLESPIE
P.O. K. CUNNINGHAM



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COMBO PERRY CO. RECLAMATION 2024
PERRY COUNTY RECLAMATION PROJECT No. CO-PR-24

JOHNSON RUN AERIAL

DATE:
OCTOBER, 2024

| REVISIONS |
|-----------|
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| |

DESIGN UNIT
ZALESKI OFFICE
N.R.E.# R. WARNER, P.E.
N.R.E.# KRIS GILLESPIE
P.O. K. CUNNINGHAM

GENERAL NOTES

- ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THESE APPROVED PLANS AND DMRM SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY THE ZALESKI DMRM OFFICE AT LEAST 72 HOURS PRIOR TO MOBILIZATION. SEE CONTACT INFO ON THE COVER SHEET.
- ALL TRASH, DEBRIS, ETC ASSOCIATED WITH THE PROJECT SHALL BE REMOVED BY THE CONTRACTOR AND PROPERLY DISPOSED OF PRIOR TO FINAL ACCEPTANCE.
- THE CONTRACTOR'S STAGING AREA SHALL BE WITHIN THE CONSTRUCTION WORK LIMITS AND SHALL BE PRE-APPROVED BY THE CHIEF PRIOR TO WORK.
- CONTRACTOR SHALL STABILIZE, REVEGETATE AND RECLAIM AREAS OF DISTURBANCE PER THESE APPROVED PLANS AND DMRM SPECIFICATIONS.
- IN THE EVENT AN INADVERTENT DISCOVERY (ID) OCCURS AT ANY PHASE OF A PROJECT OR UNDERTAKING AS DEFINED, AND HUMAN REMAINS OR ARCHAEOLOGICAL MATERIALS ARE EXPOSED AS A RESULT OF PROJECT ACTIVITIES, WORK SHOULD CEASE IMMEDIATELY AND NOTIFY DMRM.
- IT IS REQUIRED THAT ALL EQUIPMENT BE CLEANED OF ALL VEGETATION DEBRIS AND SOIL BEFORE ENTERING THE PROJECT AREA. EQUIPMENT CLEANING CAN BE DONE AT ANY COMMERCIAL CAR WASH FACILITY OR FACILITY WITH A HIGH-POWERED WATER HOSE. EQUIPMENT TRAVELING BETWEEN PROJECT AREAS SHALL BE REASONABLY FREE OF MUD AND DEBRIS.
- IF ANY FEDERALLY-LISTED OR REGIONAL FORESTER SENSITIVE SPECIES ARE FOUND DURING PROJECT IMPLEMENTATION BY THE CONTRACTOR OR THE CHIEF, ACTIVITY WILL BE STOPPED IN THE AREA UNTIL A DMRM BIOLOGIST CAN DETERMINE THE POTENTIAL IMPACTS OF THE PROJECT TO THE RARE SPECIES FOUND.

QUANTITIES

| SPEC | ITEM | QUANTITY | SEE SHEET # |
|------|-------------------------|-------------|-------------|
| 2100 | MOBILIZATION/ACCESS | 0.1 (LS) | |
| 2121 | CLEARING AND GRUBBING | 0.1 (ACRE) | |
| 2200 | EARTHWORK (2 CY) | - | |
| 2702 | SPECIFIC WORK ALLOWANCE | 500 (EACH) | |
| 3454 | #57 STONE | 20 (TON) | |
| 4516 | POLYURETHANE FOAM FILL | 90 (CF-EXP) | 19 |
| 6100 | STANDARD REVEGETATION | 0.1 (ACRE) | |

EROSION AND SEDIMENT CONTROL

(ESC) NOTES:

- EROSION AND SEDIMENT CONTROL SHALL BE FIELD DIRECTED AS NECESSARY BY THE DIVISION STAFF.
- THE CONTRACTOR SHALL:
- STABILIZE ALL DISTURBED AREAS TO BE LEFT DORMANT FOR MORE THAN 14 DAYS. STABILIZATION MAY INCLUDE PERMANENT SEEDING, MULCHING, ROCK CHECK DAMS (RCDs) AND STRAW WATTLES.
 - IN THE EVENT OF WINTER SHUTDOWN, DEVELOP A WINTERIZATION PLAN TO MINIMIZE EROSION AND SEDIMENT CONTROL.
 - MAKE EVERY EFFORT TO MINIMIZE EROSION.
 - MAKE EVERY EFFORT TO ENSURE THAT SEDIMENT IS NOT TRANSPORTED OFFSITE.

CONSTRUCTION SEQUENCE

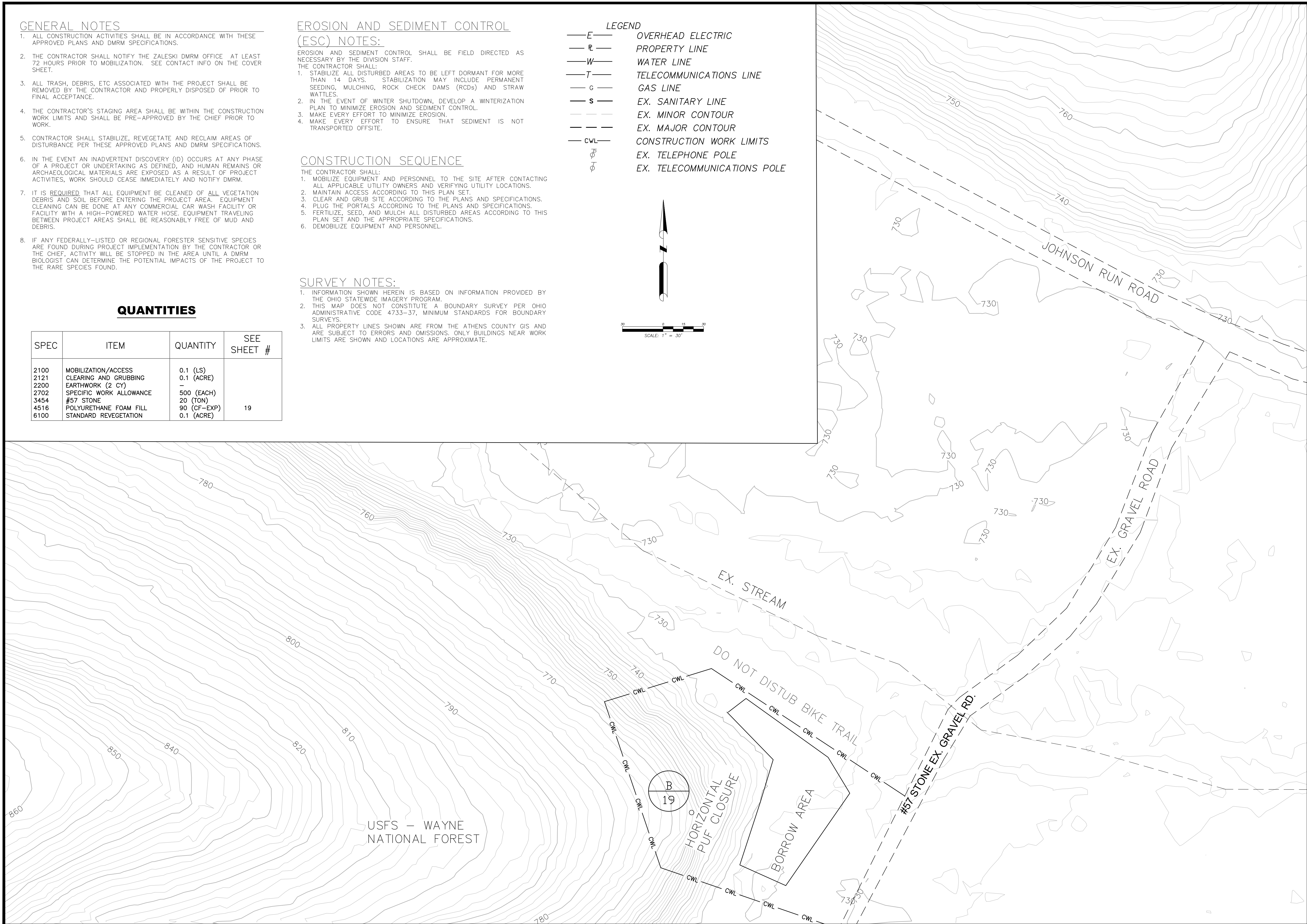
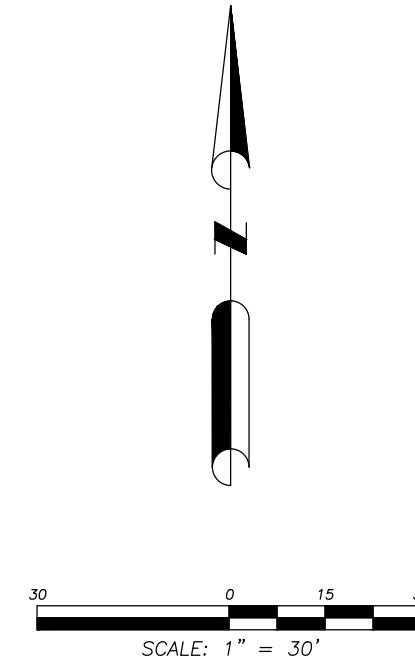
- THE CONTRACTOR SHALL:
- MOBILIZE EQUIPMENT AND PERSONNEL TO THE SITE AFTER CONTACTING ALL APPLICABLE UTILITY OWNERS AND VERIFYING UTILITY LOCATIONS.
 - MAINTAIN ACCESS ACCORDING TO THIS PLAN SET.
 - CLEAR AND GRUB SITE ACCORDING TO THE PLANS AND SPECIFICATIONS.
 - PLUG THE PORTALS ACCORDING TO THE PLANS AND SPECIFICATIONS.
 - FERTILIZE, SEED, AND MULCH ALL DISTURBED AREAS ACCORDING TO THIS PLAN SET AND THE APPROPRIATE SPECIFICATIONS.
 - DEMobilize EQUIPMENT AND PERSONNEL.

SURVEY NOTES:

- INFORMATION SHOWN HEREIN IS BASED ON INFORMATION PROVIDED BY THE OHIO STATEWIDE IMAGERY PROGRAM.
- THIS MAP DOES NOT CONSTITUTE A BOUNDARY SURVEY PER OHIO ADMINISTRATIVE CODE 4733-37, MINIMUM STANDARDS FOR BOUNDARY SURVEYS.
- ALL PROPERTY LINES SHOWN ARE FROM THE ATHENS COUNTY GIS AND ARE SUBJECT TO ERRORS AND OMISSIONS. ONLY BUILDINGS NEAR WORK LIMITS ARE SHOWN AND LOCATIONS ARE APPROXIMATE.

LEGEND

- OVERHEAD ELECTRIC
- PROPERTY LINE
- WATER LINE
- TELECOMMUNICATIONS LINE
- GAS LINE
- EX. SANITARY LINE
- EX. MINOR CONTOUR
- EX. MAJOR CONTOUR
- CONSTRUCTION WORK LIMITS
- EX. TELEPHONE POLE
- EX. TELECOMMUNICATIONS POLE



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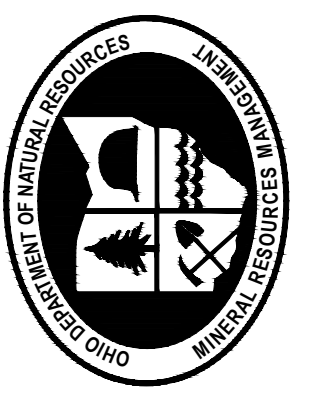
COMBO PERRY CO. RECLAMATION 2024
PERRY COUNTY RECLAMATION PROJECT No. CO-PR-24

JOHNSON RUN PROPOSED

DATE:
OCTOBER, 2024

REVISIONS

DESIGN UNIT
ZALESKI OFFICE
N.R.E. R. WARNER, P.E.
N.R.E. KRIS GILLESPIE
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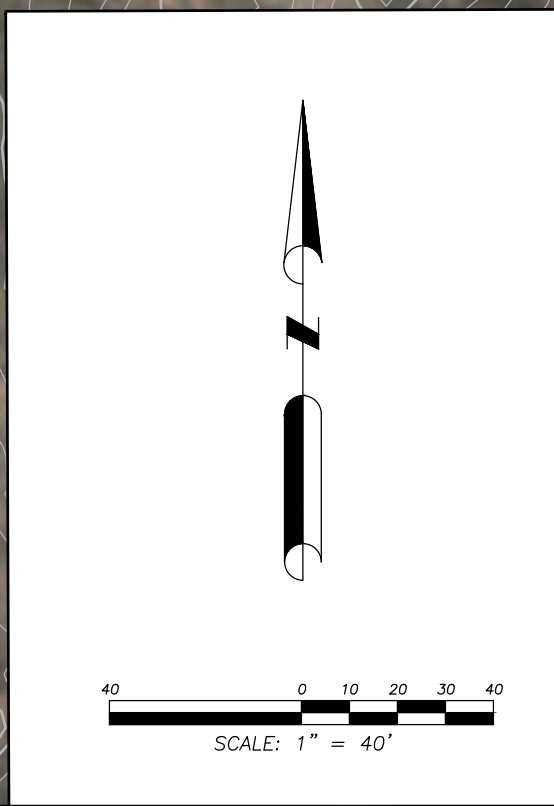
COMBO PERRY CO. RECLAMATION 2024
PERRY COUNTY RECLAMATION PROJECT No. CO-PR-24
SALEM HOLLOW AERIAL

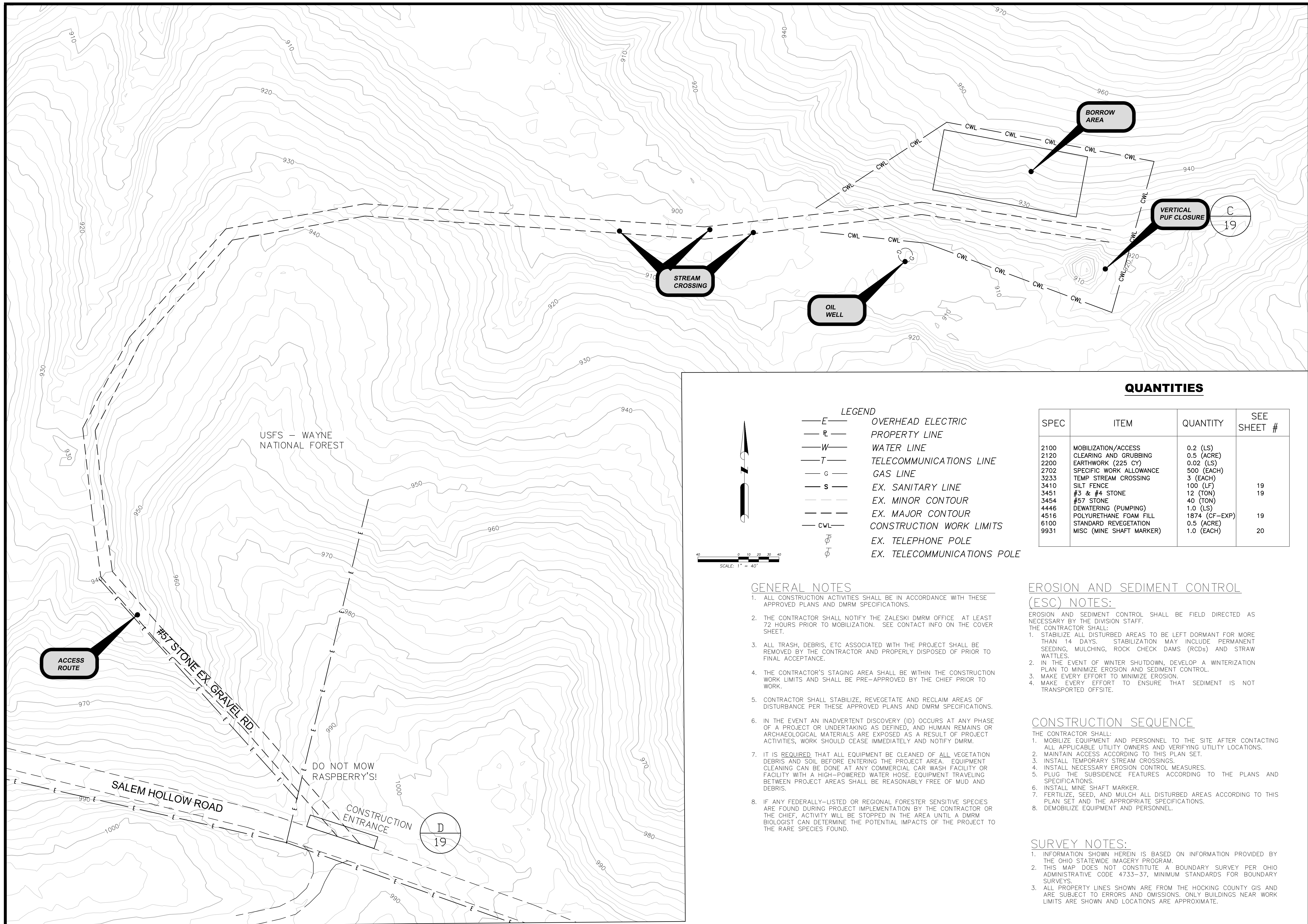
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17
20





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COMBO PERRY CO. RECLAMATION 2024
 PERRY COUNTY RECLAMATION PROJECT No. CO-PR-24

SALEM HOLLOW PROPOSED

DATE:
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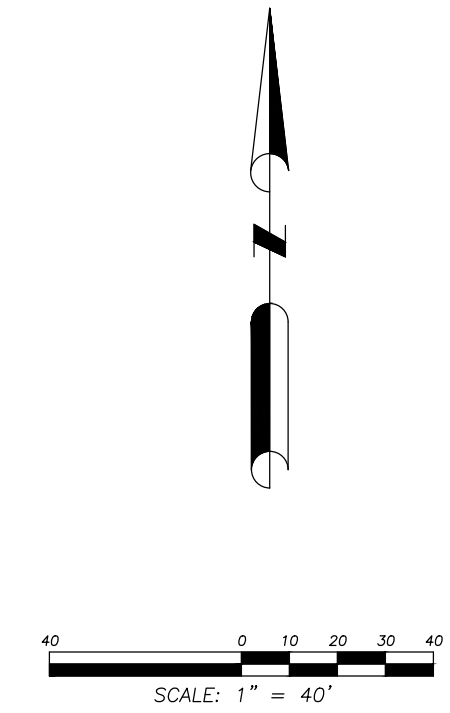
18
 20

QUANTITIES

| SPEC | ITEM | QUANTITY | SEE SHEET # |
|------|--------------------------|---------------|-------------|
| 2100 | MOBILIZATION/ACCESS | 0.2 (LS) | |
| 2120 | CLEARING AND GRUBBING | 0.5 (ACRE) | |
| 2200 | EARTHWORK (225 CY) | 0.02 (LS) | |
| 2702 | SPECIFIC WORK ALLOWANCE | 500 (EACH) | |
| 3233 | TEMP STREAM CROSSING | 3 (EACH) | |
| 3410 | SILT FENCE | 100 (LF) | 19 |
| 3451 | #3 & #4 STONE | 12 (TON) | 19 |
| 3454 | #57 STONE | 40 (TON) | |
| 4446 | DEWATERING (PUMPING) | 1.0 (LS) | |
| 4516 | POLYURETHANE FOAM FILL | 1874 (CF-EXP) | 19 |
| 6100 | STANDARD REVEGETATION | 0.5 (ACRE) | |
| 9931 | MISC (MINE SHAFT MARKER) | 1.0 (EACH) | 20 |

LEGEND

- E— OVERHEAD ELECTRIC
- P— PROPERTY LINE
- W— WATER LINE
- T— TELECOMMUNICATIONS LINE
- G— GAS LINE
- S— EX. SANITARY LINE
- — — EX. MINOR CONTOUR
- — — EX. MAJOR CONTOUR
- CWL— CONSTRUCTION WORK LIMITS
- ⊕ EX. TELEPHONE POLE
- ⊕ EX. TELECOMMUNICATIONS POLE



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- THE CONTRACTOR SHALL:
- STABILIZE ALL DISTURBED AREAS TO BE LEFT DORMANT FOR MORE THAN 14 DAYS. STABILIZATION MAY INCLUDE PERMANENT SEEDING, MULCHING, ROCK CHECK DAMS (RCDs) AND STRAW WATTLES.
 - IN THE EVENT OF WINTER SHUTDOWN, DEVELOP A WINTERIZATION PLAN TO MINIMIZE EROSION AND SEDIMENT CONTROL.
 - MAKE EVERY EFFORT TO MINIMIZE EROSION.
 - MAKE EVERY EFFORT TO ENSURE THAT SEDIMENT IS NOT TRANSPORTED OFFSITE.

CONSTRUCTION SEQUENCE

- THE CONTRACTOR SHALL:
- MOBILIZE EQUIPMENT AND PERSONNEL TO THE SITE AFTER CONTACTING ALL APPLICABLE UTILITY OWNERS AND VERIFYING UTILITY LOCATIONS.
 - MAINTAIN ACCESS ACCORDING TO THIS PLAN SET.
 - INSTALL TEMPORARY STREAM CROSSINGS.
 - INSTALL NECESSARY EROSION CONTROL MEASURES.
 - PLUG THE SUBSIDENCE FEATURES ACCORDING TO THE PLANS AND SPECIFICATIONS.
 - INSTALL MINE SHAFT MARKER.
 - FERTILIZE, SEED, AND MULCH ALL DISTURBED AREAS ACCORDING TO THIS PLAN SET AND THE APPROPRIATE SPECIFICATIONS.
 - DEMOBILIZE EQUIPMENT AND PERSONNEL.

SURVEY NOTES:

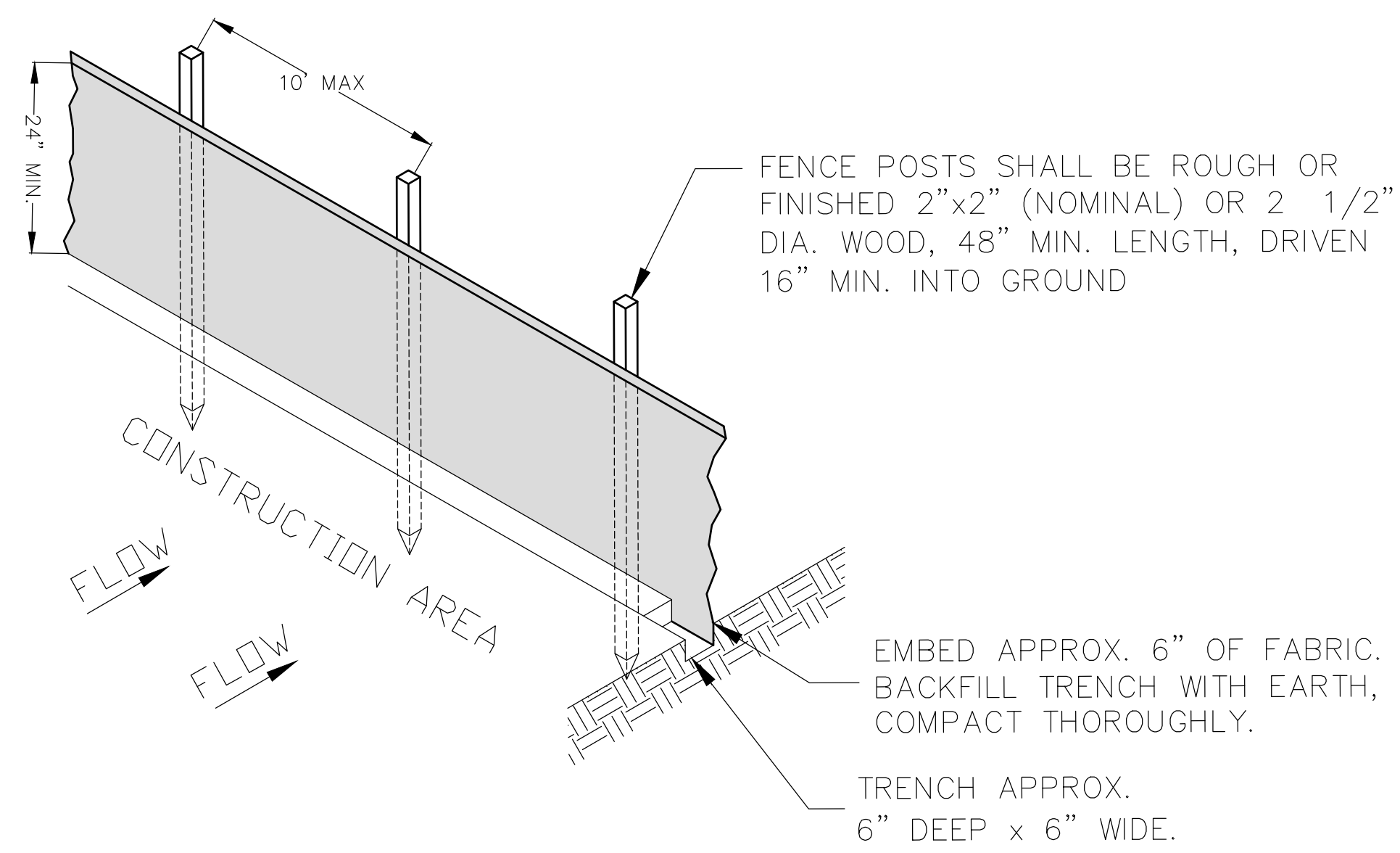
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DATE:
OCTOBER, 2024

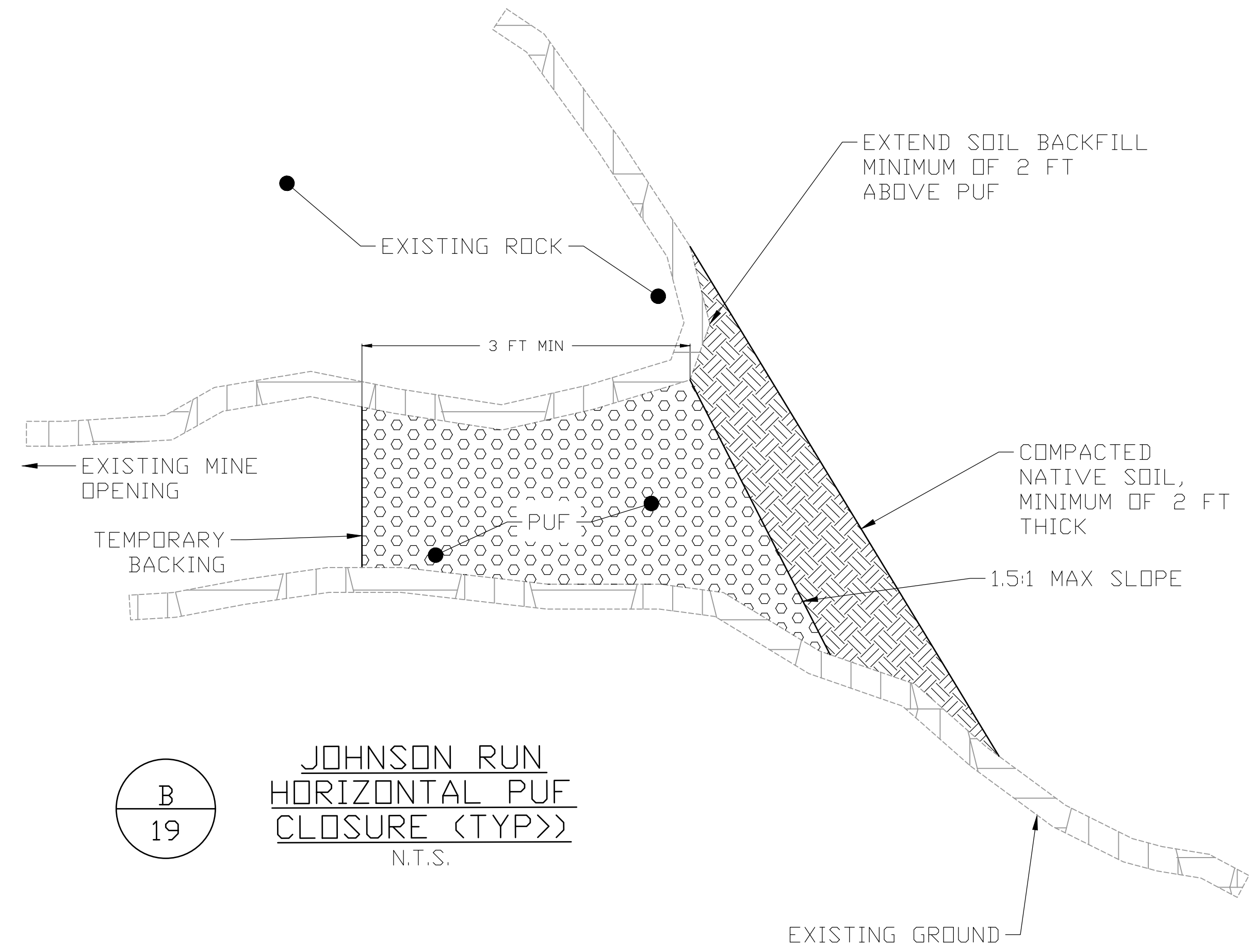
REVISIONS

DESIGN UNIT
ZALESKI OFFICE
N.E.E. R. WARNER, P.E.
N.E.E. KRIS GILLESPIE
P.O. K. CUNNINGHAM

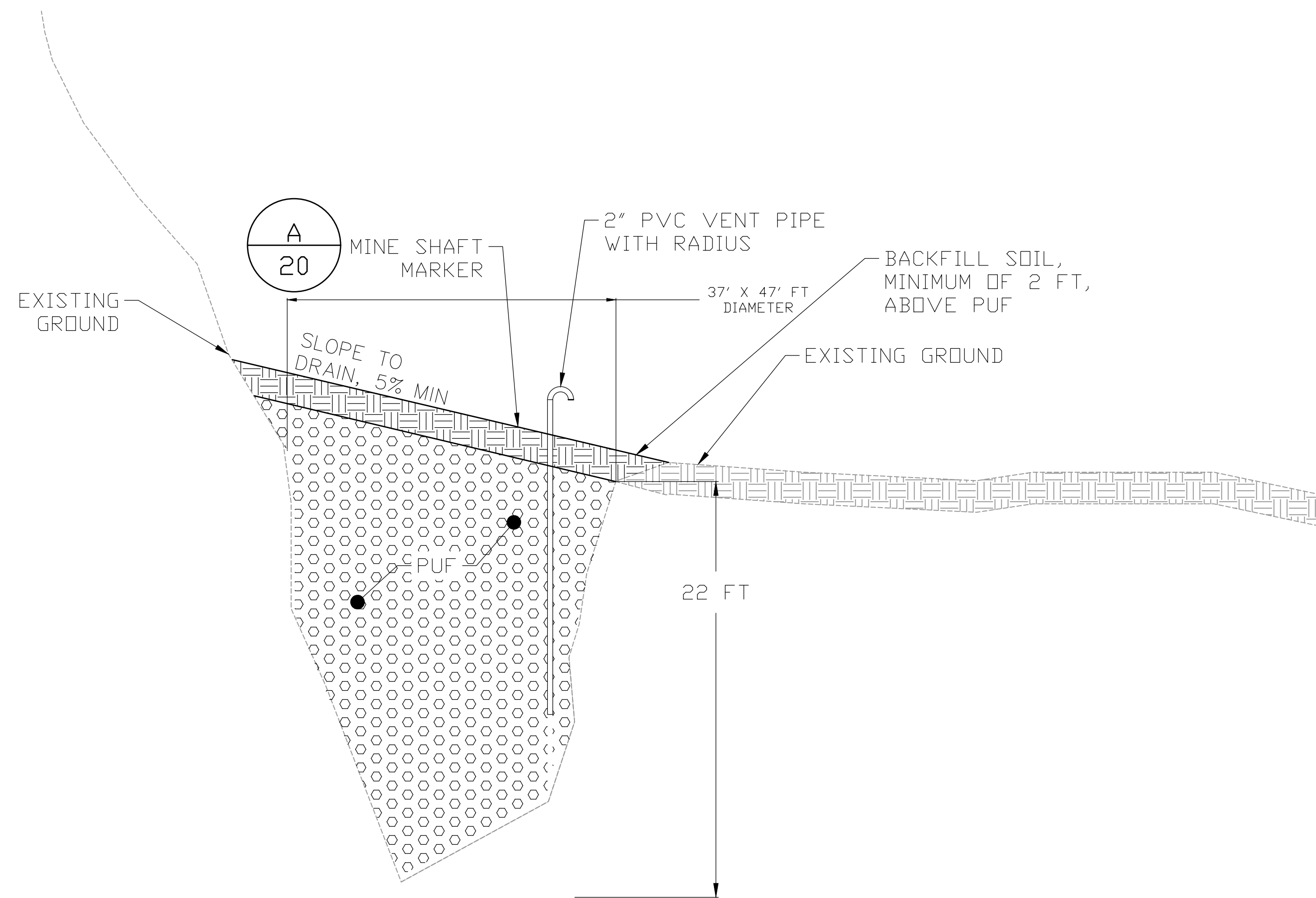


A
19
SILT FENCE
N.T.S.

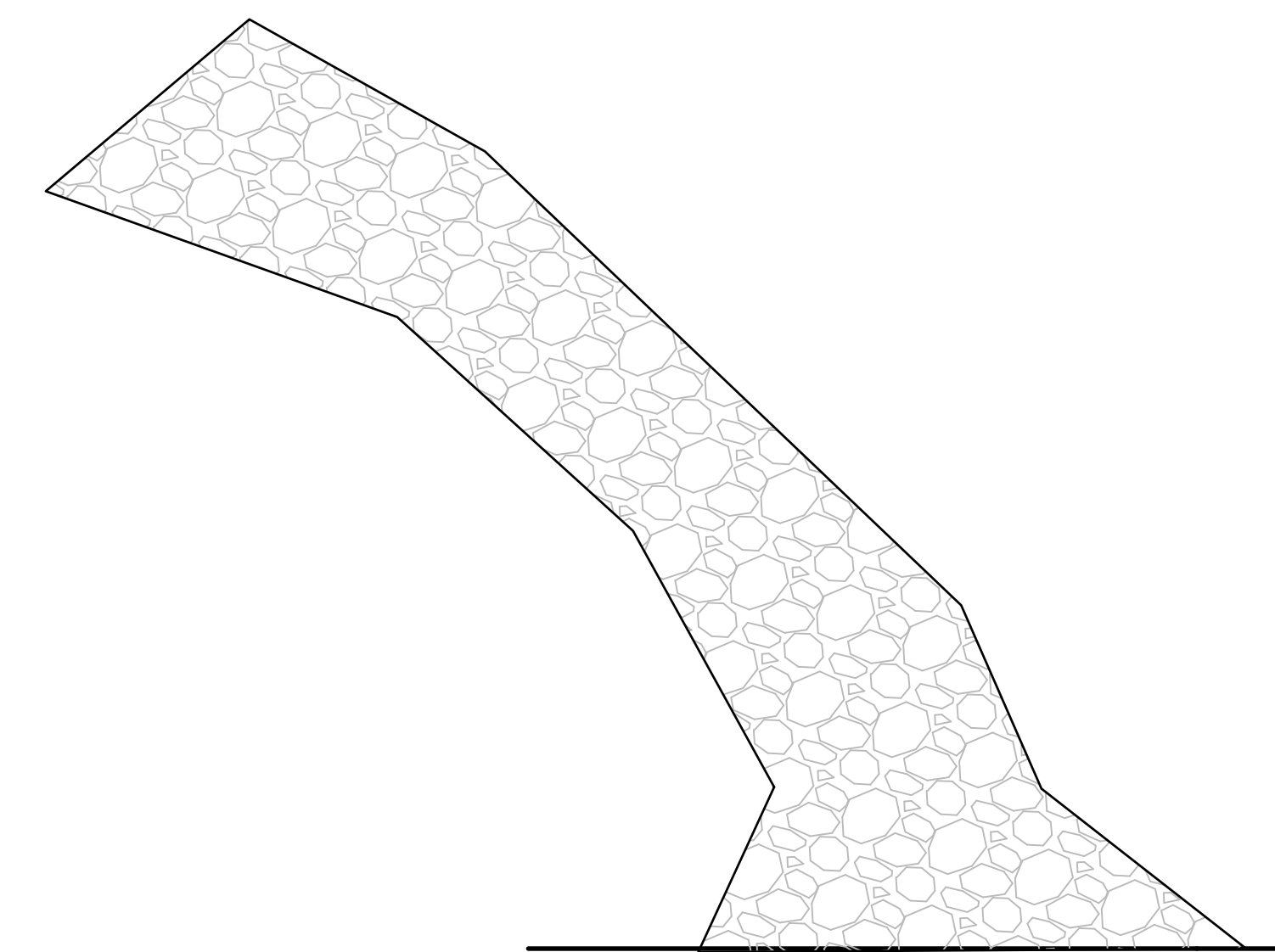
NOTE: FABRIC TO BE FASTENED SECURELY TO FENCE POST AS PER MANUFACTURER'S RECOMMENDATIONS. ENDS OF INDIVIDUAL ROLLS OF FABRIC SHALL BE SECURELY FASTENED TO A COMMON POST OR OVERLAPPED 3" MIN.



B
19
JOHNSON RUN
HORIZONTAL PUF
CLOSURE (TYP)
N.T.S.

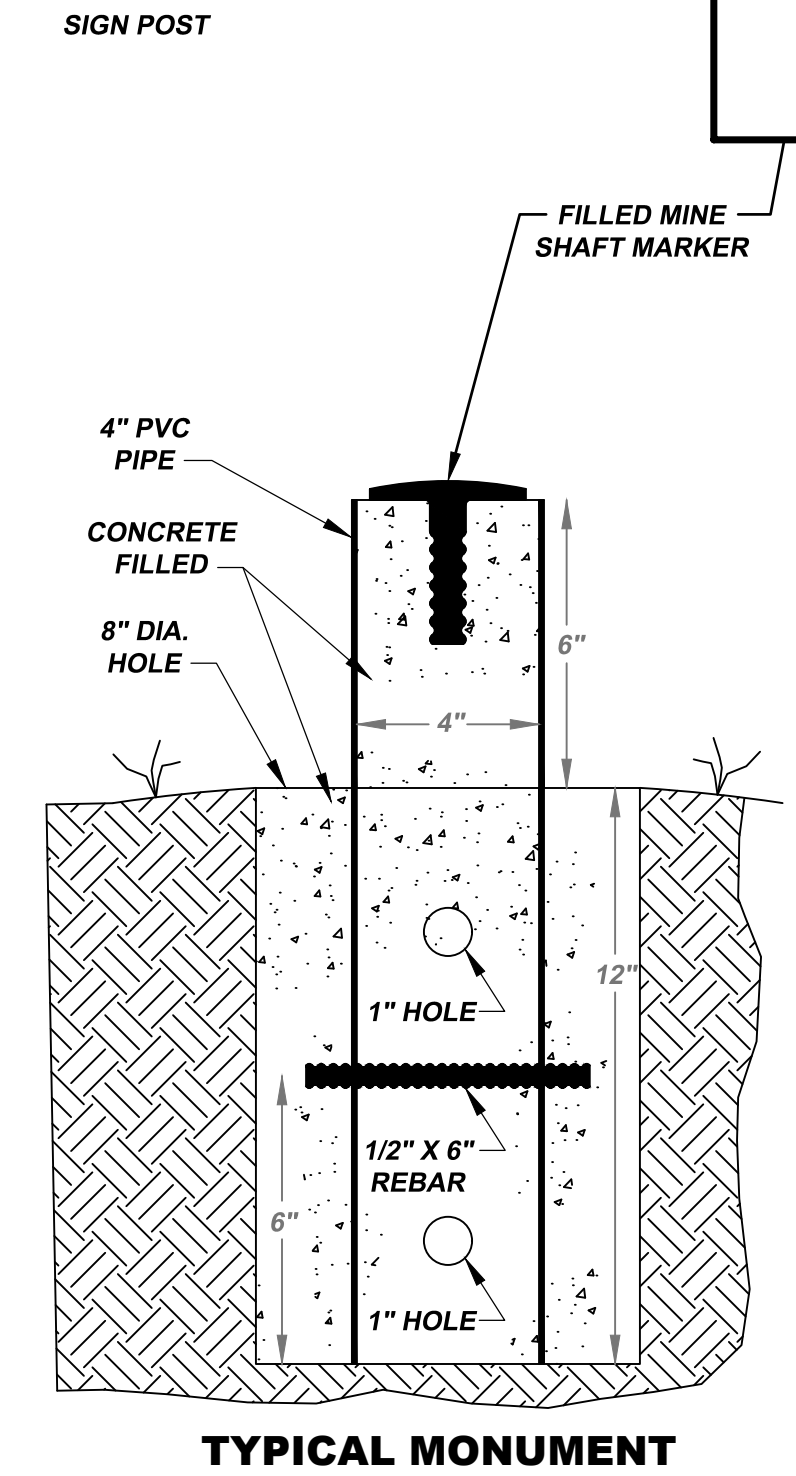


C
19
SALEM HOLLOW
VERTICAL PUF
CLOSURE (TYP.)
N.T.S.



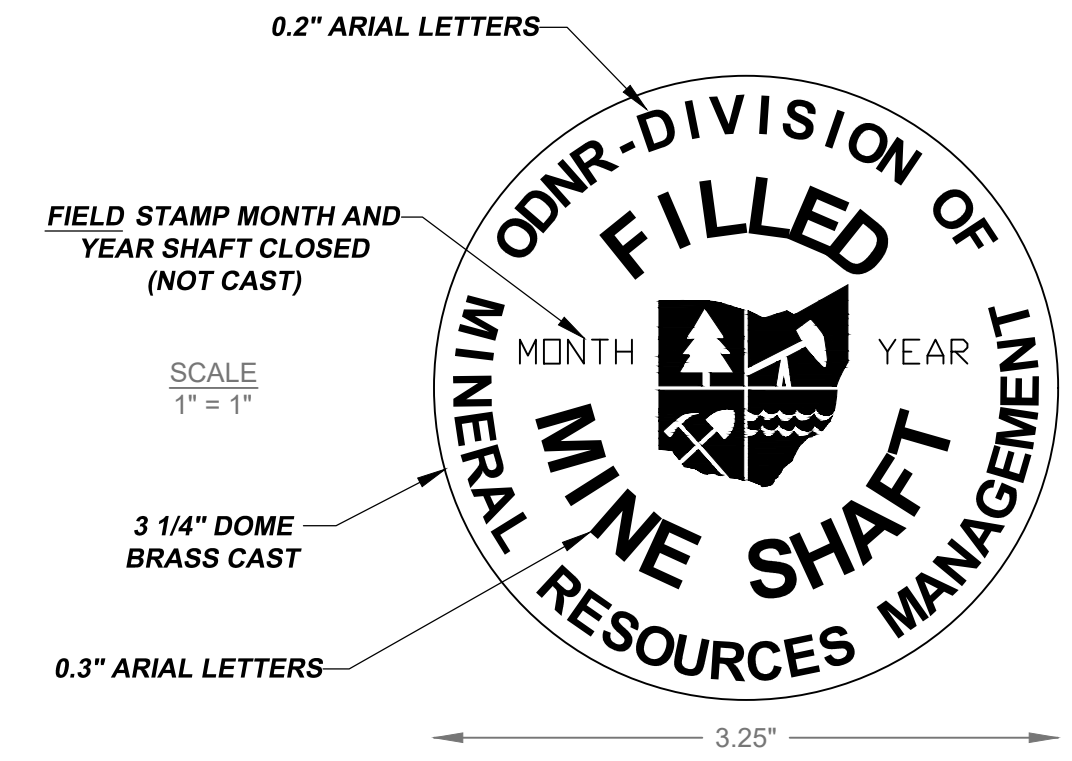
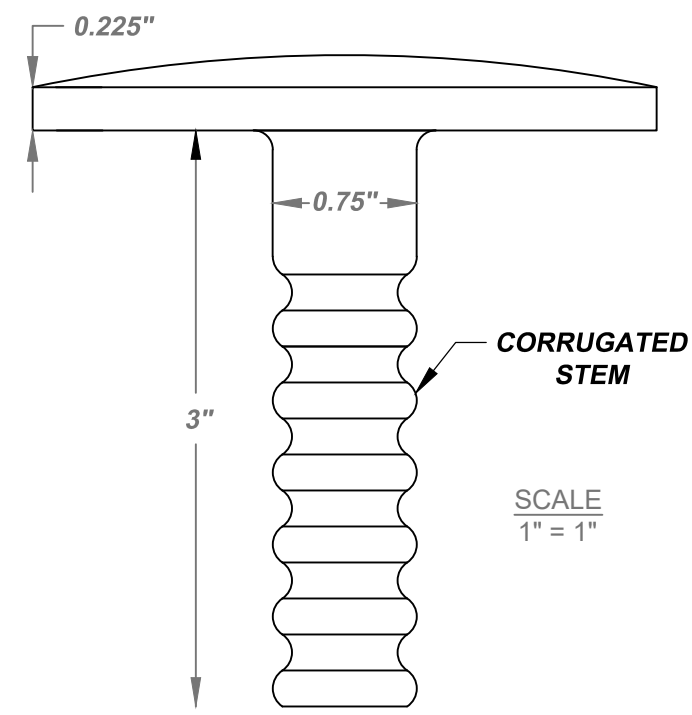
D
19
70' x 12'
CONSTRUCTION
ENTRANCE
N.T.S.

CONSTRUCTION ENTRANCE
SHALL BE 3" OF #3/#4 STONE.



MINE
SHAFT
MARKER
N.T.S.

A
20



NOTES:
 CONCRETE MAY BE CAST-IN-PLACE IN NEAT HOLES WITHOUT THE USE OF FORMS, EXCEPT WHERE FORMS ARE SHOWN ON THE PLANS. THE SIZE OF THE HOLE SHOULD BE 12" DEEP BY 8" DIAMETER. CUT AN 18" SECTION OF 4" PVC PIPE. PLACE A 6" LONG PIECE OF REBAR IN THE CENTER OF THE HOLE THROUGH THE PIPE. DRILL ADDITIONAL 1" HOLES IN PIPE AS SHOWN. MIX ONE 60 POUND BAG OF QUIKRETE AND FILL HOLE AND PIPE PER DETAIL. STATE-FURNISHED BRASS "FILLED MINE SHAFT" MARKERS SHALL BE PLACED IN CONCRETE MONUMENTS BEFORE THE CONCRETE HAS ACQUIRED ITS INITIAL SET AND SHALL BE FIRMLY BEDDED IN THE CONCRETE. THE DISK SHALL BE PLACED IN THE CENTER OF THE CONCRETE MONUMENT. AFTER THE MONUMENTS HAVE BEEN CONSTRUCTED AS SPECIFIED, ANY OPEN SPACE AROUND THEM SHALL BE FILLED WITH EARTH. THE SIGN POST SHALL BE EMBEDDED 12" INTO THE GROUND 12" ADJACENT TO THE SHAFT MARKER WITH AN OUMTCD TYPE 2 OBJECT MARKER (OM2-2V). THE SIGN POST SHALL BE A GALVANIZED METAL POST TYPICAL TO SIGN POST INSTALLATION AND SHALL BE CONFIGURED ACCORDING TO THE DETAIL ABOVE.



PUBLIC HEALTH & SAFETY
 ABANDONED MINE LAND PROGRAM
 minerals.ohio.dnr.gov



COMBO PERRY CO. RECLAMATION 2024
 PERRY COUNTY RECLAMATION PROJECT No. CO-PR-24

JOHNSON RUN DETAILS

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