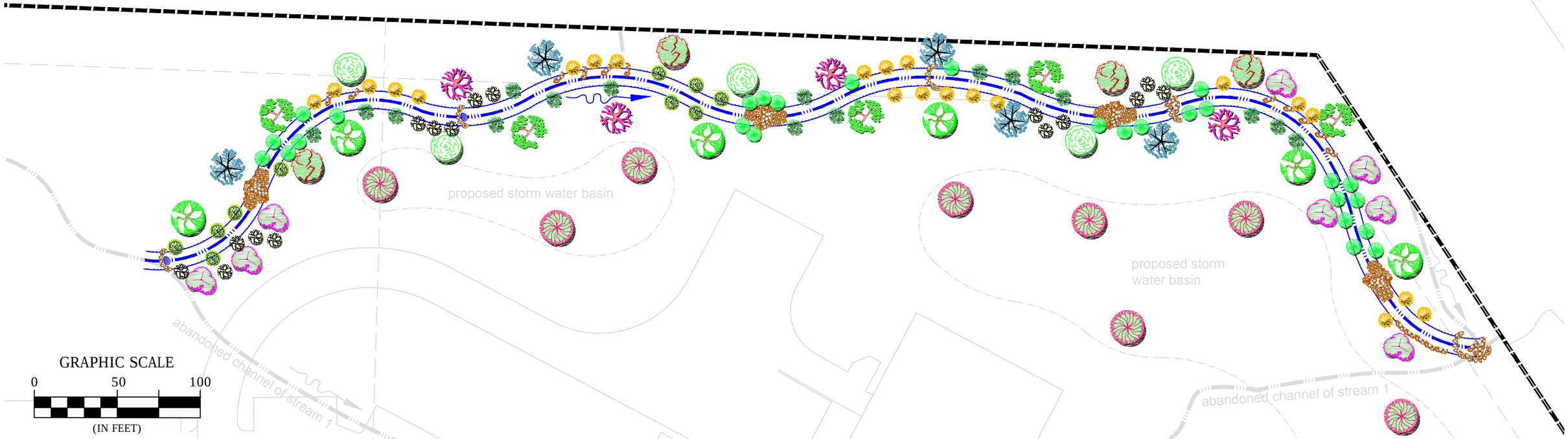
Appendix A Figure 7 Realigned restored stream and riparian area



Study area

Proposed realigned stream and direction of flow (965 LF). Riparian area, seeded with native basin mix

Newbury riffle grade control structure

Rock riffle and plunge pool habitat

Bendway and/or partial weirs

Rock riffle and in-stream stone habitat

NOTE: Actual species, numbers, and locations will be dependent on availability and post-construction site conditions, including hydrology and projected light levels.

Trees/small trees

- *Acer rubrum* (red maple)
- *Amelanchier laevis* (Allegheny serviceberry)
- *Betula nigra* (river birch)
- *Nyssa sylvatica* (black gum)
- *Taxodium distichum* (bald cypress)
- *Quercus macrocarpa* (bur oak)
- *Quercus palustris* (pin oak)
- *Quercus rubra* (red oak)

Shrubs

- *Aronia melanocarpa* (black chokeberry)
- *Cephalanthus occidentalis* (buttonbush)
- *Cornus amomum* (silky dogwood)
- *Ilex verticillata* (winterberry)
- *Morella pensylvanica* (northern bayberry)

811
Know what's **below.**
Call before you dig.

Prepared by
DAVEY RESOURCE GROUP
A Division of The Davey Tree Expert Company

Prepared for
Union Square Investment, LTD/ Diebold, Incorporated

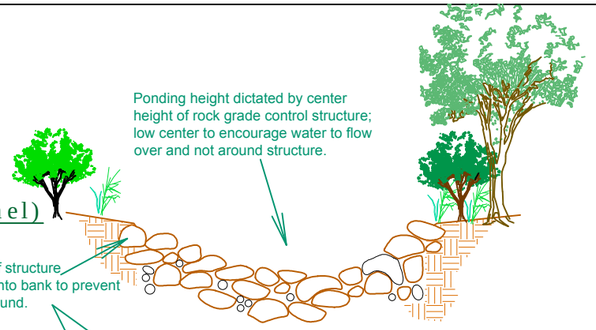
Union Square Development Site
148.6 Acres, Massillon and Wise Roads Green, Ohio

Conceptional Stream Drawings
June, 2012

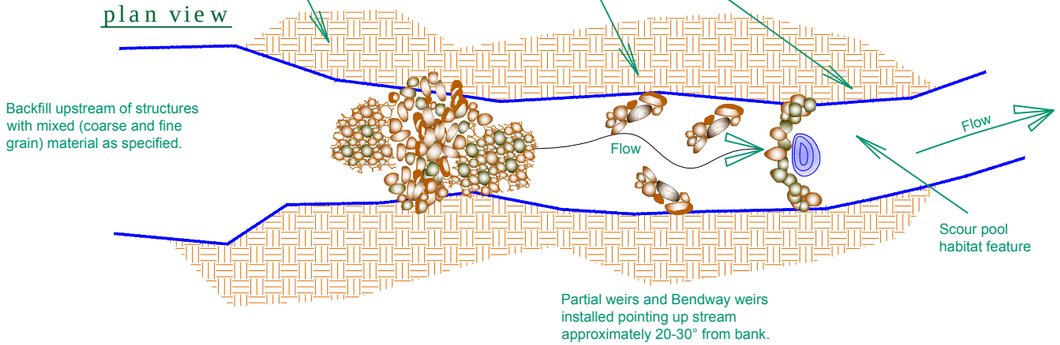
Sheet **1** of **2**

Typical Rock Grade Control Structure and Riffle Features

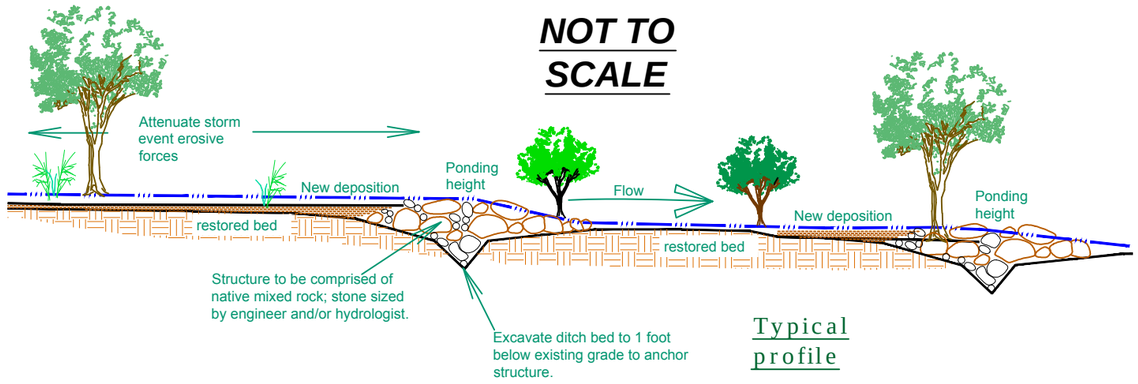
Typical cross-section (looking up channel)



Typical plan view



NOT TO SCALE



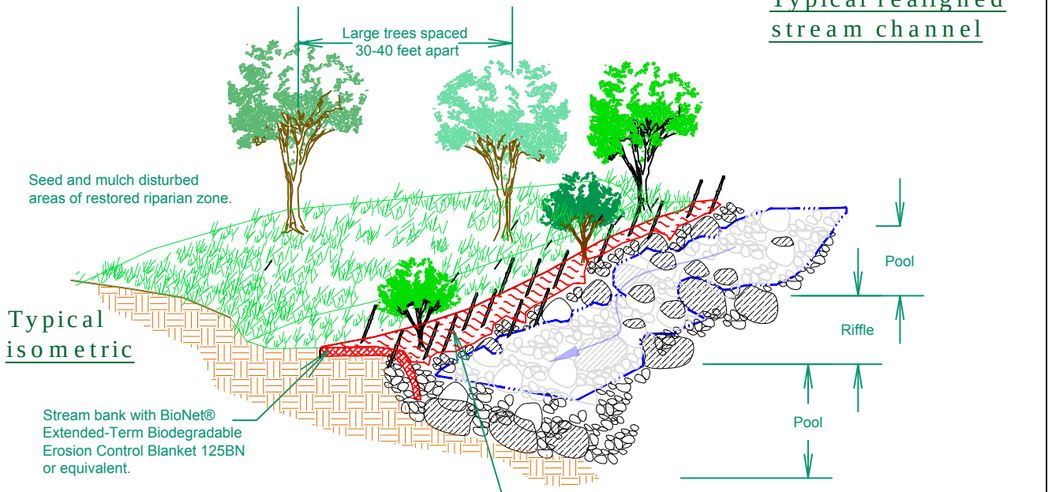
Typical profile

Ohio Prairie Nursery Retention Basin Slope Seed Mix (Dependent on Availability)

Botanical Name	Common Name
Actinomeris alternifolia	wingstem
Andropogon gerardii	big bluestem
Asclepias incarnata	swamp milkweed
Chamaecrista fasciculata	partridge pea
Coreopsis lanceolata	lanceleaf coreopsis
Echinacea purpurea	purple coneflower
Heliopsis helianthoides	ox eye sunflower
Liatris spicata	dense blazingstar
Monarda fistulosa	wild bergamot
Panicum virgatum	switch grass
Penstemon digitalis	foxglove beardtongue
Ratibida pinnata	grey-headed coneflower
Rudbeckia hirta	black-eyed susan
Rudbeckia triloba	brown-eyed susan
Sorghastrum nutans	indian grass

Typical realigned stream channel

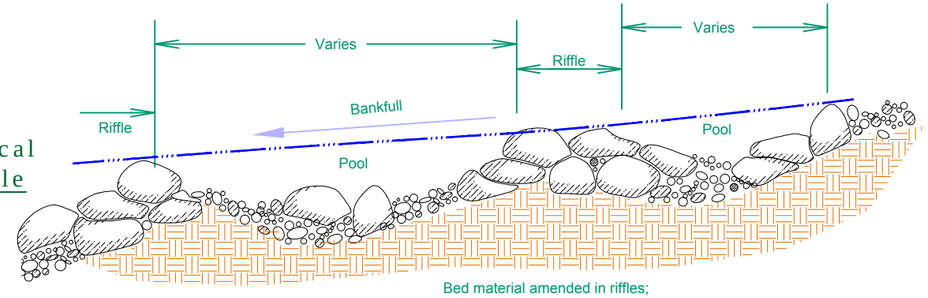
Typical isometric



NOT TO SCALE

Typical cross-section

Typical profile



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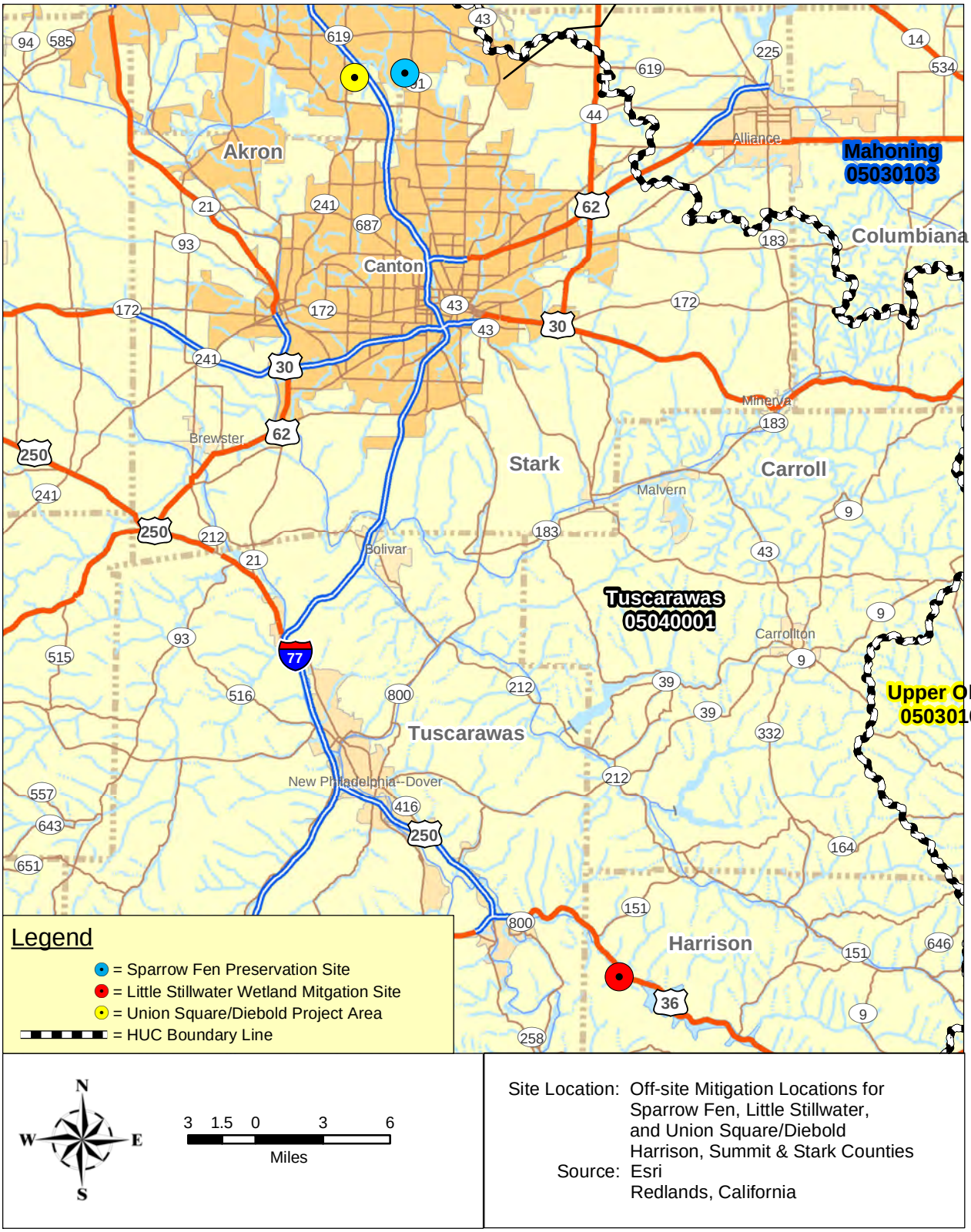
Prepared for Union Square Investment, LTD/ Diebold, Incorporated

Union Square Development Site
148.6 Acres, Massillon and Wise Roads Green, Ohio

Conceptional Stream Drawings
June, 2012

Sheet **2** of **2**

Appendix A Figure 8
Off-site Mitigation Locations



CONSTRUCTION DRAWINGS

SITE PLAN

0 150

HORIZONTAL SCALE IN FEET

N

- Tile Search and Removal
- Project Limits (±11.5 Ac.)
- Proposed Berm
- Existing Wetlands (2.4 Ac. Within Project Limits)

CONSTRUCTION ENTRANCE AND STAGING AREA

250

J.M Smucker Company
LRH-2010-00378-TUS
OEPA ID No. 103698

STRIP II PROJECT
PERMIT PENDING

BEGIN BERM
STA. 10+50

EX. TILE (TYP)

EXISTING WETLANDS DO NOT DISTURB

MICRO-TOPOGRAPHY RESTORATION

Little Stillwater Creek

END BERM
STA. 21+77

A

A

TILE SEARCH TRENCHES AROUND THE PERIMETER OF THE PROJECT TO BE MOUNDED ABOVE EXISTING GRADE FOLLOWING SEARCH. MINIMUM TOP ELEVATION TO BE 867.5.

AREA RESERVED FOR FUTURE COUNTY USE

WETLAND MITIGATION PLAN FOR:
UNION SQUARE INVESTMENTS LTD. & DIEBOLD INC.

The exact boundary of the mitigation area for the Union Square Investmens Ltd. & Diebold Inc. Project will be defined after construction and planting, during the first year of monitoring. The boundary will be defined after hydrology and vegetation communities have started to become established to help ensure that an adequate amount of mitigation for the Union Square Investmens Ltd. & Diebold Inc. Project will be provided on the mitigation site.

SEE SHEET 3/3 FOR SECTION A-A AND BERM PROFILE

PROTECT ENHANCE RESTORE
WWW.OHIOWETLANDS.ORG

HABITAT MAP

- Tile Search and Removal
- Project Limits (±11.5 Ac.)
- Proposed Berm
- Existing Wetlands (2.4 Ac. Within Project Limits)
- Shallow Emergent/Scrub Shrub (1.7 Acres Shown)
- Forested Wetlands (3.5 Acres Shown)
- Forested Wetlands/Upland Mosaic (50% Wetlands) (3.9 Acres Shown)

0 150
HORIZONTAL SCALE IN FEET

CONSTRUCTION ENTRANCE AND STAGING AREA

BEGIN BERM STA. 10+50

J.M Smucker Company
LRH-2010-00378-TUS
OEPA ID No. 103698

STRIP II PROJECT
PERMIT PENDING

EXISTING WETLANDS DO NOT DISTURB

EXISTING WETLANDS DO NOT DISTURB

EX. TILE (TYP)

EX. TILE (TYP)

EX. TILE (TYP)

MICRO-TOPOGRAPHY RESTORATION

TILE SEARCH TRENCHES AROUND THE PERIMETER OF THE PROJECT TO BE MOUNDED ABOVE EXISTING GRADE FOLLOWING SEARCH. MINIMUM TOP ELEVATION TO BE 867.5.

END BERM STA. 21+77

AREA RESERVED FOR FUTURE COUNTY USE

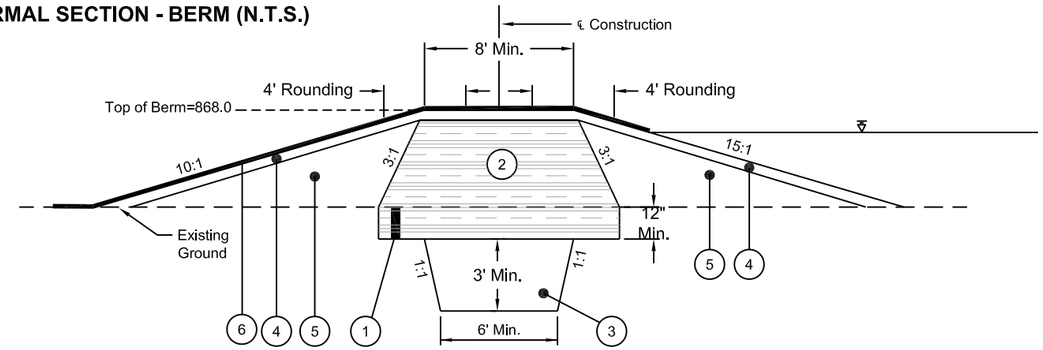
Little Stillwater Creek

The exact boundary of the mitigation area for the Union Square Investmens Ltd. & Diebold Inc. Project will be defined after construction and planting, during the first year of monitoring. The boundary will be defined after hydrology and vegetation communities have started to become established to help ensure that an adequate amount of mitigation for the Union Square Investmens Ltd. & Diebold Inc. Project will be provided on the mitigation site.

SEE SHEET 3/3 FOR SECTION A-A AND BERM PROFILE

PROFILES AND SECTIONS

SECTION A-A
NORMAL SECTION - BERM (N.T.S.)



LEGEND

1. Foundation Preparation
2. Compacted Clay Berm
3. Compacted Clay Core Trench
4. Min. 6" topsoil, shall be free of all sod, roots, frozen soil, stones larger than 4" diameter, and all other questionable material.
5. Compacted soil, shall be free of all sod, roots, frozen soil, stones Larger than 4" diameter, and all other questionable material.
6. Berm Seeding and Mulching

UNDERGROUND UTILITIES

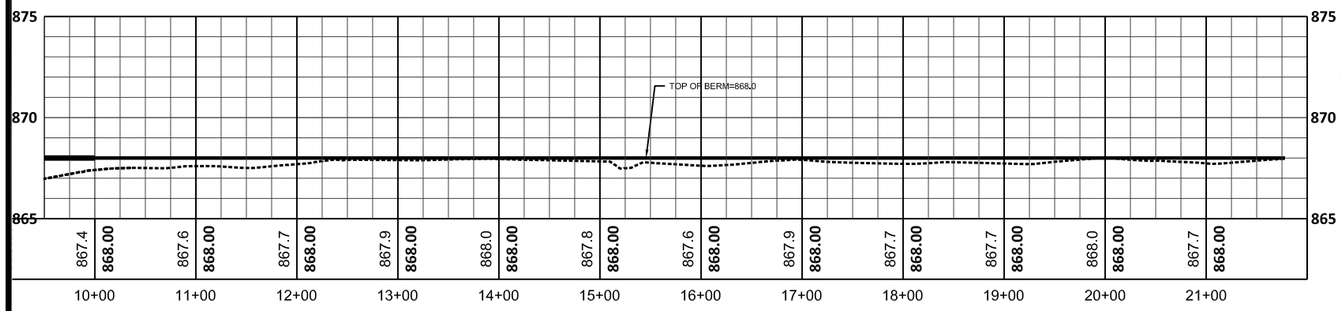
CONTACT BOTH SERVICES
CALL TWO WORKING DAYS BEFORE YOU DIG

CALL
1-800-362-2764
(TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS PROTECTIVE
SERVICE CALL: 1-800-925-0988

PROFILE ALONG CENTERLINE OF BERM

0 150
HORIZONTAL
SCALE IN FEET



UTILITY LOCATIONS

LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THEIR EXACT LOCATION AND ELEVATION WHEN WORKING IN THEIR VICINITY.

WHERE POTENTIAL GRADE CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES, THE CONTRACTOR SHALL UNCOVER SUCH UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT THE EXACT ELEVATION MAY BE DETERMINED AND THE NECESSARY ADJUSTMENTS MADE. COST OF THE ABOVE, IF ANY,WILL BE INCLUDED IN THE PRICE BID FOR THE PERTINENT ITEM.

LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL UTILITY LINES, SERVICES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED WITH THE PRICE BID FOR THE PERTINENT ITEM, UNLESS OTHERWISE NOTED ON THE PLANS.

SITE PREPARATION

THE FOUNDATION AREA AND BORROW AREAS WILL BE CLEARED OF ALL TREES, STUMPS, ROOTS, BRUSH, ROCKS AND OTHER DEBRIS. THE DISPOSAL AREA FOR ALL CLEARED MATERIAL WILL BE SHOWN ON THE PLANS OR AT A LOCATION MUTUALLY ACCEPTABLE BY THE CONTRACTOR AND THE PROJECT OWNER.

THE FOUNDATION AREA WILL BE STRIPPED TO A MINIMUM OF 12 INCHES. AFTER STRIPPING, AN EXAMINATION OF THE FOUNDATION AREA WILL BE MADE BY THE PROJECT MANAGER AND ALL POCKETS OF ORGANIC SOIL, SAND AND GRAVELS, AND OTHER UNSUITABLE MATERIAL WILL BE REMOVED. ALL SLOPES WITHIN THE FOUNDATION AREA WILL BE NO STEEPER THAN 1:1 AND WILL BE SHAPED TO ACCOMMODATE COMPACTION EQUIPMENT.

BORROW AREAS WILL BE STRIPPED OF ALL VEGETATION, ORGANIC MATTER, AND OTHER UNSUITABLE MATERIALS.

TOPSOIL

THE TOPSOIL STOCKPILED DURING SITE PREPARATION SHALL BE PLACED AS A TOP DRESSING ON THE SURFACE OF THE EMERGENCY SPILLWAY, EARTH FILL, AND BORROW AREAS. TOPSOIL USED AS A TOP DRESSING SHALL BE FREE OF ALL SOD, ROOTS, STONES GREATER THAN 4 INCHES IN DIAMETER AND ALL OTHER DELETERIOUS MATERIALS. TOPSOIL SHALL BE SPREAD ON THE ABOVE-MENTIONED LOCATIONS AT A MINIMUM DEPTH OF 6 INCHES. TOPSOIL MAY BE PLACED MORE THAN 6 INCHES DEEP IN AREAS SHOWN ON THE ON THE TYPICAL CROSS SECTIONS. THE CONSTRUCTION SEQUENCE OF BERMS SHALL BE DONE SO AS TO LIMIT THE AMOUNT OF TIME THE TOPSOIL IS STOCKPILED TO LESS THAN 60 DAYS. TOPSOIL STOCKPILES SHALL HAVE TEMPORARY SEEDING APPLIED TO IT IF IT IS TO BE STOCKPILED FOR MORE THAN 14 DAYS.

RESTORED MICRO-TOPOGRAPHY

THE CONTRACTOR SHALL DISRUPT THE SURFACE DRAINAGE IN THE "RESTORED MICRO-TOPOGRAPHY" AREAS BY CREATING SMALL POCKETS OF WATER BY DISTURBING A MINIMUM OF 80% OF THE SURFACE AREA BY CREATING RUTS, GOUGES, DIVOTS, DEPRESSIONS, SURFACE DRAINAGE PLUGS, SMALL POOLS, AND SMALL IMPOUNDMENTS, ETC. THE WORK SHALL LEAVE A MINIMUM OF 6-INCHES OF TOPSOIL COVERAGE OVER THE ENTIRE AREA.

SLOPES IN AND AROUND SMALL POOLS, DEPRESSIONS, AND IMPOUNDMENTS SHALL TYPICALLY HAVE A MAXIMUM SLOPE OF 10:1 AND NO LESS THAN ½ OF THE PERIMETER SHALL HAVE SLOPES STEEPER THAN 15:1. FOLLOWING REPLACEMENT OF THE TOPSOIL AVERAGE POOL AND DEPRESSION DEPTH SHALL BE 18-INCHES BUT NO GREATER THAN 24-INCHES. POOL AND DEPRESSION BOTTOMS, ALONG WITH IMPONDMENTS WILL NOT BE SMOOTH GRADED, DEPTH CAN VARY WITHIN THE POOL, BUT MINIMUM TOPSOIL COVERAGE SHALL APPLY.

SIZE OF DEPRESSIONS, POOLS, AND IMPOUNDMENTS SHALL VARY FROM 0.10 ACRES TO 0.50 ACRES, WITH A GREATER DENSITY OF SMALLER POOLS. SHAPES SHALL BE IRREGULAR AND VARY FROM POOL TO POOL.

EARTH FILL

PRIOR TO BEGINNING PLACEMENT OF EARTH FILL, THE SURFACE OF THE FOUNDATION AREA WILL BE SCARIFIED TO A DEPTH OF 6 INCHES AND COMPACTED TO THE SAME REQUIREMENTS AS SPECIFIED FOR EARTH FILL.

FILL MATERIAL WILL BE OBTAINED FROM THE BORROW AREA(S) AND SHALL BE FREE OF ALL SOD, ROOTS, FROZEN SOIL, STONES LARGER THAN 6 INCHES DIAMETER, AND OTHER OBJECTIONABLE MATERIAL. THE BORROW MATERIAL SHALL BE TESTED BY THE ENGINEER PRIOR TO USING IT AS FILL IN THE BERM. THE PLACING AND SPREADING OF THE FILL MATERIAL SHALL BE AT THE LOWEST POINT IN THE FOUNDATION AREA AND SHALL BE PLACED IN HORIZONTAL LIFTS WITH A MAXIMUM THICKNESS OF 6 INCHES PRIOR TO COMPACTION. THE SOIL SHALL BE WITHIN -2% AND 3% OF OPTIMUM MOISTURE CONTENT AND COMPACTED TO 98% OF OPTIMUM DRY DENSITY AS PER ASTM D698. A SHEEPSFOOT ROLLER SHALL BE USED TO COMPACT EACH LIFT (200 PSI MINIMUM RATING). THE PLACED FILL SHALL BE TESTED A MINIMUM OF ONCE PER 1000 S.Y. OF PLACED MATERIAL.

THE DISTRIBUTION AND GRADATION OF MATERIALS THROUGHOUT THE FILL SHALL BE SUCH THAT THERE WILL BE NO LENSES, POCKETS, STREAKS, OR LAYERS OF MATERIAL DIFFERING SUBSTANTIALLY IN TEXTURE OR GRADATION FROM THE SURROUNDING MATERIAL. WHERE IT IS NECESSARY TO USE MATERIALS OF VARYING TEXTURE AND GRADATION, THE MORE IMPERVIOUS MATERIAL SHALL BE PLACED IN THE UPSTREAM AND CENTER PORTIONS OF THE FILL.

THE MOISTURE CONTENT OF THE FILL MATERIAL BEING PLACED MUST BE MAINTAINED WITHIN THE LIMITS REQUIRED TO PERMIT SATISFACTORY COMPACTION. IF BORROW MATERIAL IS DRY, WATER MUST BE ADDED BY IRRIGATING THE BORROW AREA OR BY SPRINKLING EACH FILL LAYER PRIOR TO COMPACTION. AFTER ADDING WATER, THE FILL MATERIAL MUST BE MIXED TO OBTAIN A UNIFORM MOISTURE CONTENT PRIOR TO COMPACTION. MATERIAL THAT IS TOO WET WHEN PLACED ON THE FILL SHALL BE RE- MOVED, OR DRIED BY DISKING PRIOR TO COMPACTION.

IF THE TOP SURFACE OF THE PRECEDING LAYER OF COMPACTED FILL, OR ABUTMENT SURFACE IN THE ZONE OF CONTACT WITH THE FILL BECOMES TOO DRY TO PERMIT A SUITABLE BOND, IT SHALL BE SCARIFIED AND MOISTENED BY SPRINKLING TO AN ACCEPTABLE MOISTURE CONTENT PRIOR TO PLACEMENT OF THE NEXT LAYER OF FILL. IF THE TOP SURFACE OF THE FILL BECOMES TOO WET OR FROZEN, THIS MATERIAL MUST BE REMOVED PRIOR TO PLACEMENT OF THE NEXT LAYER OF FILL.

THE FINISH GRADE (AFTER PLACEMENT OF TOPSOIL) SHALL BE TO THE ELEVATIONS PLUS 0.3 FEET TO COMPENSATE FOR SETTLEMENT.

TILE SEARCH & REMOVAL

AT THE LOCATIONS SHOWN ON THE PLANS, A TILE SEARCH TRENCH SHALL BE EXCAVATED WITH A BACKHOE OR OTHER APPROVED METHOD. THE TRENCH SHALL BE A MINIMUM OF 48" DEEP AND 24" WIDE. ALL TILES ENCOUNTERED ALONG THE COURSE OF THE TRENCH SHALL BE REMOVED 15-FEET LEFT AND RIGHT OF THE TRENCH FOR A TOTAL REMOVAL OF 30-FEET. IF FIFTEEN 15-FEET IN EITHER DIRECTION IS UNOBTAINABLE, A TOTAL OF THIRTY 30-FEET OF REMOVAL SHALL BE PERFORMED. THE TILE REMOVAL TRENCH SHALL BE TO THE SAME DIMENSIONS AND BACKFILL SPECIFICATIONS AS THE TILE SEARCH TRENCH.

ALL TILES ENCOUNTERED SERVING ADJACENT PROPERTIES SHALL BE RECONNECTED. SIZES SHALL BE DETERMINED IN THE FIELD. PAYMENT FOR TILE RECONNECTION SHALL BE PAID UNDER A SEPARATE ITEM.

WHEN TILE IS ENCOUNTERED TO BE REMOVED, THE CONTRACTOR SHALL MARK THE LOCATION WITH RIBBON AND LATHE. LATHE SHALL BE LABELED WITH THE SIZE, MATERIAL, AND APPROXIMATE DEPTH TO INVERT OF THE TILE ENCOUNTERED.

BACKFILL

THE TILE SEARCH TRENCH AND 30-FEET TILE REMOVAL TRENCH SHALL BE BACKFILLED WITH CLAY IN LIFTS WITH A MAXIMUM THICKNESS OF 6-INCHES USING A HOE-PACK OR OTHER PRIOR APPROVED METHOD. IN THE EVENT NO CLAY IS PRESENT ONSITE, TRENCHES SHALL BE BACKFILLED WITH AN ENGINEER APPROVED MATERIAL. MATERIAL SHALL BE FREE FROM ALL SOD, ROOTS, FROZEN SOIL, STONES LARGER THAN 6-INCHES DIAMETER, AND OTHER OBJECTIONABLE MATERIAL. A MINIMUM OF 4-INCHES OF TOPSOIL SHALL BE PLACED OVER THE TILE SEARCH AND REMOVAL TRENCHES.

WARRANTY

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TILE WORK FOR 12 MONTHS FOLLOWING CONSTRUCTION. IF WITHIN THIS TIME PERIOD IT IS DETERMINED THAT TILES WERE NOT REMOVED WITHIN THE TILE SEARCH PATH, OR TILES CONVEYING OFFSITE DRAINAGE WERE NOT RECONNECTED, THE CONTRACTOR SHALL RETURN TO THE SITE TO COMPLETE THE WORK. COST SHALL BE INCLUDED IN THE TILE SEARCH ITEM.

Appendix A Figure 10
Off-Site Preservation

Prepared for
Union Square Investment, LTD/
Diebold, Incorporated

Sparrow Fen Site
11.7 Acres, Heckman Street N.W.
Lake Township, Stark County, Ohio

Prepared by
DAVEY RESOURCE GROUP

Data used to produce this map were collected on June 21, 2012

NOTE: Wetlands sizes and stream lengths could change upon overlay of a boundary survey, especially where these features extend outside of or are in close proximity to the shown study limits. Wetlands acreage and stream lengths are calculated for the portion that occurs in the shown study limits.