

Project Location Map



Project Description

The project is to construct an ADA loop trail approximately 3/4 mile long with 5 seating areas. The trail is within an old agriculture field that is being managed for a successional wildflower area and limited scrub-shrub growth. Trail slopes are a maximum 2.6% and a minimum 0.4%. The seating areas are four small areas along the trail sized for rest and one larger area near the trail intersection. This area is located for gathering and views to the adjacent wetlands and butterfly gardens.

This project should result in an accessible experience to connect park users with the natural places within Morgan Park.

Project Elements

Trail Segment	Length	Sq. Fts	Notes
Segment-S.1	1,099 LF	10 - 98.2	ADA Trail - 1.5% & 0.8%
Segment-S.2	1,187 LF	22 - 79.4	ADA Trail - 1.0%, 2.6% & 1.3%
Segment-S.3	888 LF	31 - 59.0	ADA Trail - 0.4%
Segment-S.4	639 LF	38 - 00.0	ADA Trail - 1.9%
Segment-S.5	411 LF	41 - 97.6	ADA Trail - 0.7%
Bench Areas	Area	Finished Area	
B.1 - Area 1	96 SF	8'x12'	1% Cross Slope (typical)
B.2 - Area 2	96 SF	8'x12'	1% Cross Slope (typical)
B.3 - Area 3	96 SF	8'x12'	1% Cross Slope (typical)
B.4 - Area 4	96 SF	8'x12'	1% Cross Slope (typical)
B.5 - Area 5	600 SF	20'x30'	1% Cross Slope (typical)

Project Keynotes

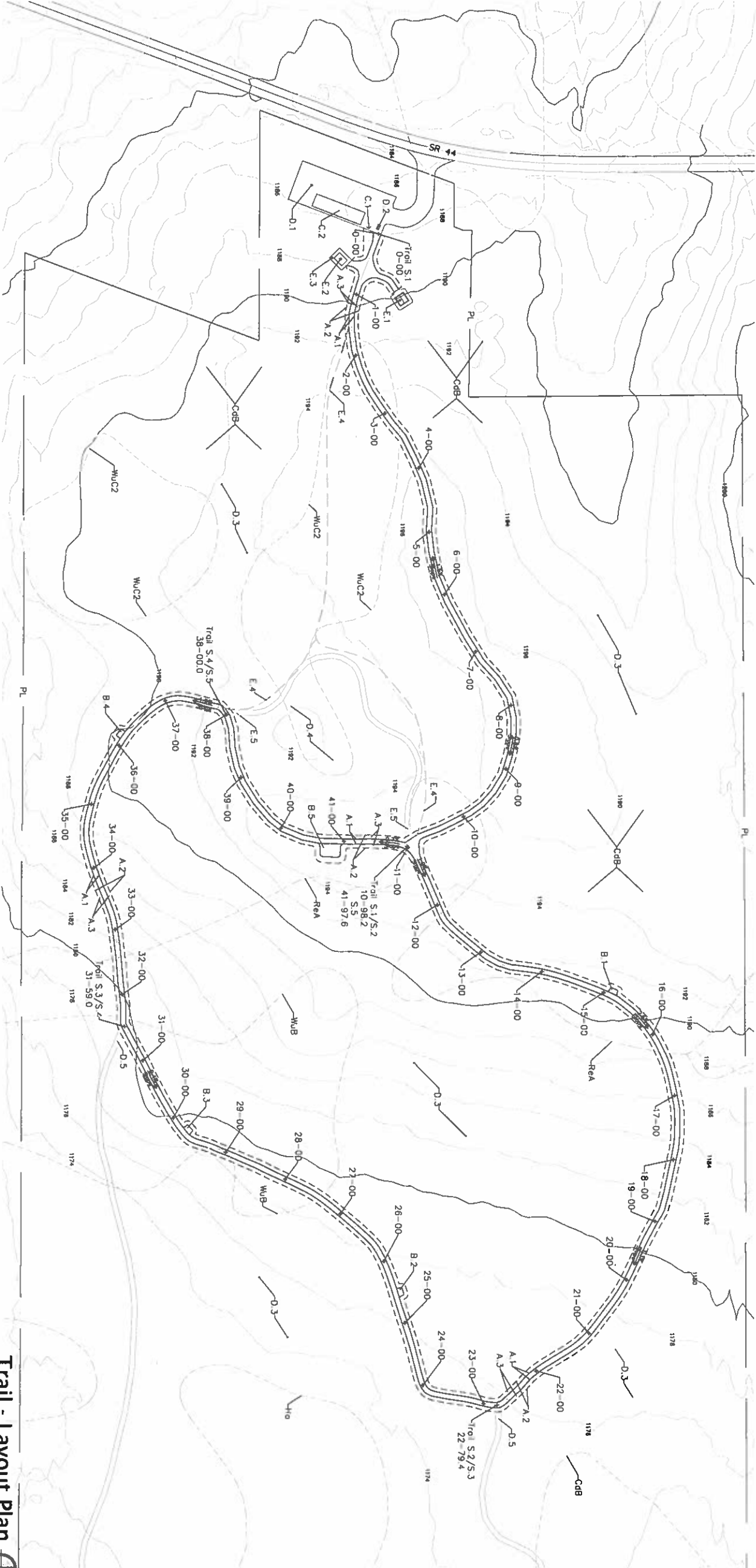
Trails	Notes
A.1 - Edge of Trail	8' Width (typical)
A.2 - Limit of Work	20' Width (typical)
A.3 - Trail Cut Spoil Area	6' Width - both sides (typical)
Bench Areas	
B.1 - Area 1	Surface - Aggregate Fines/Compacted
B.2 - Area 2	Surface - Aggregate Fines/Compacted
B.3 - Area 3	Surface - Aggregate Fines/Compacted
B.4 - Area 4	Surface - Aggregate Fines/Compacted
B.5 - Area 5	Surface - Aggregate Fines/Compacted
Construction	
C.1 - Construction Access	Access Directly from Parking Lot
C.2 - Contractor Parking and Storage	20'x60' Area
Existing	
D.1 - Parking Lot	Limited Impact - Access & Storage
D.2 - Kiosk/Park Sign	Do Not Impact
D.3 - Wildflower Area	Do Not Impact
D.4 - Wetland	Do Not Impact
D.5 - Mowed Trail	Do Not Impact
Proposed	
E.1 - Shelter	By Others
E.2 - Restroom	By Others
E.3 - Concrete Apron	By Others
E.4 - Trail Restoration	By Others
E.5 - Wetland Trail	By Others

Soils

Symbol	Name	Slope	Notes
CdB	Canfield Silt Loam	2 - 6%	Runoff Medium Seasonal Wetness Erosion
Ho	Holly Silt Loam		Floodplains/Runoff Slow
ReA	Ravenna Silt Loam	0 - 2%	Runoff Slow Seasonal Wetness Moderate Slow Permeability
WuB	Wooster Silt Loam	2 - 6%	Sandstone 4-6' Runoff Medium Erosion-Moderate Permeability-Moderate Slow
WuCZ	Wooster Silt Loam	6 - 12	Moderate Eroded Runoff Moderate Rapid Erosion-Severe Permeability-Slow

Drawing Index

LL-1 Trail Layout Plan
LL-2 Construction Details and Notes



Trail - Layout Plan



**Morgan Park Trail**  
PPD  
Portage Park District  
705 Oakwood St. #4  
Ravenna, Ohio 44266  
330.297.7728



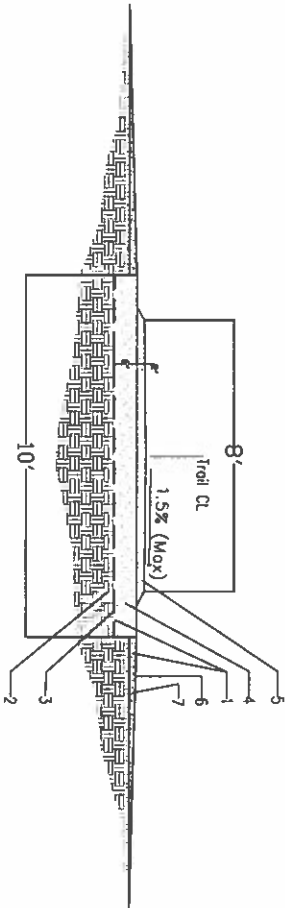
No.	Revision/Issue	Date
1	Planning	May18
2	Bidding	June18

**Layout Plan**  
Morgan Park Trail

Preparation Construction	Sheet LL-1
Date June 2018	



Detail



1. TRAIL SURFACE, 000T 209, LINEAR GRADING TO 4" DEPTH, DEPOSIT EXCAVATED MATERIALS IN BERM ADJACENT TO TRAIL, TO BACK UP NEW SURFACE MATERIAL.
2. COMPACTED SUBGRADE PER 000T 204
3. GEOTEXTILE FABRIC PER 000T 712.09 TYPE D
4. 6" COMPACTED #304 AGGREGATE BASE PER 000T 304 (MATERIAL APPROVAL BY CLIENT)
5. 2" COMPACTED #10 AGGREGATE SCREENINGS PER 000T 703.10 (MATERIAL APPROVAL BY CLIENT)
6. PLACE EXCAVATED MATERIAL ADJACENT TO TRAIL EDGE, FEATHER INTO EXISTING GRADE.
7. SEED AND MULCH DISTURBED BERM AREAS PER 000T 659 (ALTERNATE BID)

NOTES

GENERAL NOTES

1. THE PROJECT CONSISTS OF EXCAVATION, GRADING, INSTALLATION OF AGGREGATE TRAIL, AND RESTORATION OF ALL DISTURBED AREAS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL PERMITS, LICENSE, FEES, AND BONDS THAT ARE NECESSARY TO COMPLETE THE CONSTRUCTION OF THIS PROJECT, AND SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
3. ALL CONTRACTORS AND SUBCONTRACTORS SHALL HAVE A SET OF APPROVED CONSTRUCTION DOCUMENTS ON SITE AT ALL TIMES.
4. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE OWNER OR OWNER'S REPRESENTATIVE. THE OWNER RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH WORKMANSHIP THAT DOES NOT CONFORM TO THEIR STANDARDS AND SPECIFICATION.
5. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND INCLUDES TRAFFIC CONTROL ALONG STATE ROUTE 44. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE ADEQUACY OF THE SAFETY MEASURES IN, ON, AND NEAR THE CONSTRUCTION SITE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND/OR RESTORING ALL DISTURBED SURFACES AND RELATED STRUCTURES, INCLUDING BUT NOT LIMITED TO, CURBS, GUTTERS, WALKS, AND BITUMINOUS PAVEMENTS TO ORIGINAL CONDITIONS (OR BETTER). ALL AREAS DAMAGED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED AT HIS OR HER EXPENSE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ADJACENT IMPROVEMENTS FROM DAMAGE AND EROSION. ANY ADJACENT IMPROVEMENT DAMAGED DURING CONSTRUCTION SHALL, AT A MINIMUM, BE RESTORED TO A STATE EQUAL TO ITS PRECONSTRUCTION STATE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THEIR OWN DISPOSAL SITE FOR ALL DISPOSED MATERIALS.
9. THE CONTRACTOR WILL WORK WITH THE OWNER TO PROVIDE LOCATIONS FOR TEMPORARY STAGING, MATERIALS STORAGE, AND GENERAL MACHINE ACCESS ROUTES (Keynote C1-LL.1)
10. OWNER SHALL FIELD STAKE TRAIL ALIGNMENT AND LIMITS OF BENCH AREAS PRIOR TO SITE CLEARING. CONTRACTOR SHALL FOLLOW FIELD ALIGNMENT IN AREAS THAT DEVIATE FROM DRAWINGS. VEGETATION ADJACENT TO THE LIMIT OF WORK SHALL BE PRESERVED.

EROSION CONTROL NOTES

1. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE BMPs TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE OWNER.
2. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR PARKING AREA SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND

DISPOSED IN AN APPROPRIATE MANNER. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.

3. IN THE EVENT THE CONTRACTOR DUMPS, DISCHARGES, OR SPILLS ANY OIL OR CHEMICAL THAT REACHES OR HAS THE POTENTIAL TO REACH A WATERWAY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ALL APPROPRIATE JURISDICTIONAL AGENCIES (FEDERAL, STATE, AND LOCAL) AND SHALL TAKE IMMEDIATE ACTIONS FOR CONTAINMENT AND REMOVAL OF THE OIL OR CHEMICAL.

TRAIL NOTES

1. THIS TRAIL BORDERS A NATURAL AREA. ALL EFFORTS SHOULD BE MADE TO NOT DISTURB THE NATURAL AREA.
2. A PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO ANY CONSTRUCTION ACTIVITY.
3. THE CONTRACTOR SHALL WARRANTY ALL WORK TO BE FREE OF DEFECTS FOR ONE YEAR AFTER FINAL INSPECTION.

SITE CLEARING NOTES

1. NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE SITE CLEARING – OHIO 811.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG AND AROUND THE CONSTRUCTION AREA. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROTECTING UTILITIES DURING CONSTRUCTION AND SHALL HOLD THE OWNER AND THE LANDSCAPE ARCHITECT HARMLESS FOR DAMAGE ARISING FROM FAILURE TO ADEQUATELY PROTECT UTILITIES. THE CONTRACTOR SHALL NOTE ALL UTILITIES MAY NOT APPEAR ON THESE DRAWINGS AND THAT THE POTENTIAL CONFLICT WITH THESE UTILITIES AND COORDINATION WITH UTILITY OWNERS.
3. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THE TRAIL CORRIDOR. (Keynote A.2-LL.1)
4. REMOVE OBSTRUCTIONS, TREES, SHRUBS, GRASS, AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION. REMOVAL INCLUDES DIGGING OUT STUMPS AND OBSTRUCTIONS AND GRUBBING ROOTS.
5. FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY SOIL MATERIAL, UNLESS FURTHER EXCAVATION OR EARTHWORK IS INDICATED.
6. DISPOSAL: REMOVE WASTE MATERIALS, INCLUDING TRASH AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.

EARTHWORK

1. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS CREATED BY EARTHWORK OPERATIONS.
2. PROTECT SUBGRADES FROM SOFTENING, UNDERMINING, WASHOUT, AND DAMAGE BY RAIN OR WATER ACCUMULATION.
3. EXCAVATE TO SUBGRADE ELEVATIONS REGARDLESS OF THE CHARACTER OF SURFACE AND SUBSURFACE CONDITIONS ENCOUNTERED, INCLUDING ROCK, SOIL MATERIALS, AND OBSTRUCTIONS. IF EXCAVATED MATERIALS INTENDED FOR FILL AND BACKFILL INCLUDE UNSATISFACTORY SOIL MATERIALS AND ROCK, REPLACE WITH SATISFACTORY SOIL MATERIALS. PLACE EXCAVATED MATERIAL ADJACENT TO TRAIL AND FEATHER INTO EXISTING GRADE.
4. UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE FROM IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES, AND ELEVATIONS INDICATED. GRADE SUBGRADES TO 4" DEPTH (SEE DETAIL #1)
5. PROOF ROLL SUBGRADES, BEFORE FILLING OR PLACING AGGREGATE COURSES, WITH HEAVY PNEUMATIC-TIRED EQUIPMENT TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. DO NOT PROOF ROLL WET OR SATURATED SUBGRADES. IF SUBGRADE IS DEEMED UNSATISFACTORY REPLACE WITH SATISFACTORY SOIL MATERIALS.
6. PROTECT NEWLY GRADED AREAS FROM TRAFFIC, FREEZING, AND EROSION. KEEP FREE OF TRASH AND DEBRIS.
7. RECONSTRUCT SUBGRADES TO SPECIFIED TOLERANCES DAMAGED BY FREEZING TEMPERATURES, FROST, RAIN, ACCUMULATED WATER, CONSTRUCTION ACTIVITIES OR WHERE THEY LOSE COMPACTION.
8. GRADES SHOWN ON PLANS ARE FINISHED GRADES, FOR SUBGRADE ELEVATIONS, REFER TO THE PAVING SECTIONS AND DETAILS.

AGGREGATE TRAIL

1. AGGREGATE MATERIALS SHALL BE APPROVED BY CLIENT.
2. COMPACT SOIL SUBGRADE UNIFORMLY TO AT LEAST 95 PERCENT OF ASTM D 1557 LABORATORY DENSITY.
3. INSTALL WOVEN OR NONWOVEN POLYESTER OR POLYPROPYLENE GEOTEXTILE (ODOT 712.09 TYPE D) BETWEEN PREPARED SOIL SUBGRADE AND BASE AGGREGATE, OVERLAPPING GEOTEXTILE ENDS AND EDGES AT LEAST 12 INCHES.
5. INSTALL BASE COURSE ON PREPARED SUBGRADE. PLACE SURFACE MATERIAL OVER BASE. COMPACT TO REQUIRED GRADES, LINES, CROSS SECTIONS, AND THICKNESS TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.
5. PLACE AGGREGATE BASE IN THICKNESS INDICATED. COMPACT BY TAMPING WITH PLATE VIBRATOR OR VIBRATORY ROLLER.
6. ALL PROPOSED TRAILS TO HAVE MAXIMUM 1.5% CROSS SLOPE.

SEEDING AND MULCHING (ALTERNATE)

1. SOW SEED AT THE RATE OF 3-4 LB/1000 SQ. FT.
2. RAKE SEED LIGHTLY INTO TOP 1/8 INCH OF TOPSOIL, ROLL LIGHTLY, AND WATER WITH FINE SPRAY.
3. PROTECT SEEDED AREAS WITH SLOPES NOT EXCEEDING 1:6 BY SPREADING STRAW MULCH. SPREAD UNIFORMLY AT A MINIMUM RATE OF 2 TONS/ACRE TO FORM A CONTINUOUS BLANKET 1-1/2 INCHES IN LOOSE DEPTH OVER SEEDED AREAS. SPREAD BY HAND, BLOWER, OR OTHER SUITABLE EQUIPMENT.
4. PROTECT SEEDED AREAS FROM HOT, DRY WEATHER OR DRYING WINDS BY APPLYING COMPOST MULCH WITHIN 24 HOURS AFTER COMPLETING SEEDING OPERATIONS. SOAK AND SCATTER UNIFORMLY TO A DEPTH OF 3/16 INCH (4.8 MM) AND ROLL TO A SMOOTH SURFACE.

RECYCLING AND DISPOSAL OF CONSTRUCTION WASTE

1. EXCEPT FOR ITEMS INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN ON THE PROPERTY, DEMOLISHED OR EXCAVATED MATERIALS SHALL BE REMOVED FROM THE SITE.
2. MATERIALS SLATED FOR REMOVAL FROM THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH ANY AND ALL APPLICABLE MUNICIPAL OR OTHER GOVERNMENT AGENCY CURRENT REGULATIONS.
3. DEBRIS SHALL NOT BE PERMITTED TO ACCUMULATE ON THE JOB SITE. DUST AND DIRT SHALL BE HELD TO A MINIMUM DURING CONSTRUCTION.
4. AT THE COMPLETION OF WORK, THE ENTIRE WORK AREA SHALL BE CLEAN AND LEFT IN A NEAT CONDITION, FREE OF WASTE AND DEBRIS.

Project Name

# Morgan Park Trail

PPD  
Portage Park District  
705 Oakwood St. #4  
Ravenna, Ohio 44266  
330.297.7728

cm  
frederick  
landscape  
architect  
level up

for Morgan Park Trail  
1125  
1125  
1125

STATE OF OHIO  
REGISTERED  
LANDSCAPE ARCHITECT  
1125

No.	Revision/Issue	Date
1	Planning	May/18
2	Bidding	June/18

Project Name

# Construction Details/Notes

Morgan Park Trail

Submission  
Construction

June 2018

Sheet

LL-2