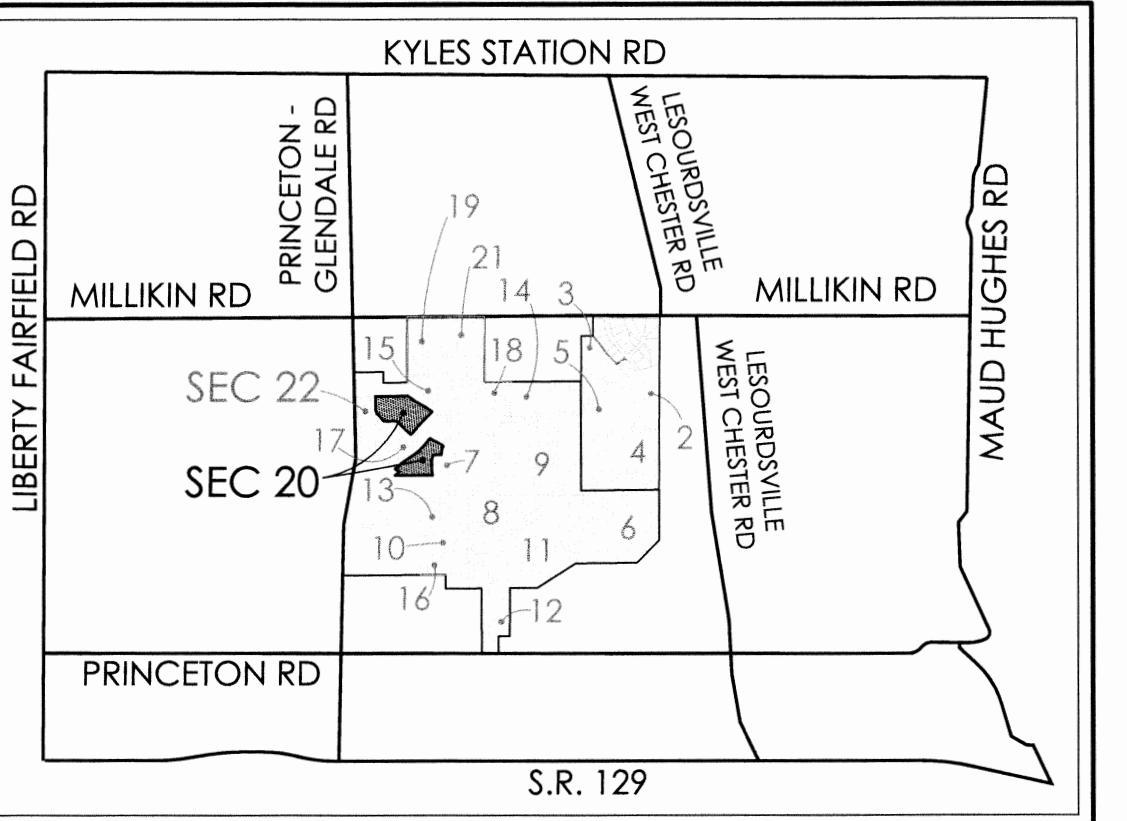


**DEVELOPER**  
LIBERTY LAND COMPANY, LLC.  
5342 CARRIAGE HOUSE BOULEVARD  
LIBERTY TOWNSHIP, OHIO 45011  
**OWNERS**  
LIBERTY LAND COMPANY, LLC.  
TERRY LAND INVESTMENT, LLC  
5342 CARRIAGE HOUSE BOULEVARD  
LIBERTY TOWNSHIP, OHIO 45011

Project Manager RA  
Drawn By NAK  
DWG 04476064-IMP-SECTION 20  
X-Ref(s) 04476063-TOP-2014 MAY 14

Issue/Revision No. Date  
S.R. 129  
VICINITY MAP  
N.T.S.  
**GENERAL NOTES**  
ALL WORK SHALL BE DONE UNDER THE SUPERVISION OF THE BUTLER COUNTY ENGINEER AND THE AUTHORITY HAVING RESPONSIBILITY FOR UTILITIES IN THE AREA AND IN ACCORDANCE WITH THE RULES AND REGULATIONS FOR SUBDIVISION.  
STORM SEWERS SHALL BE A MATERIAL WITH A MANUFACTURER'S MANNINGS "N" OF 0.11 OR LOWER AND A MATERIAL AS NOTED IN APPENDIX D, TABLE D-6 IN THE BUTLER COUNTY SUBDIVISION REGULATIONS ADOPTED NOVEMBER 24, 1997. (NOTE - CORRUGATED METAL PIPE NOT INCLUDED)  
STEPS SHALL BE INSTALLED IN CATCH BASINS AND MANHOLES IN EXCESS OF FOUR FEET.  
CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH THE OHIO DEPARTMENT OF TRANSPORTATION "CONSTRUCTION AND MATERIAL SPECIFICATIONS" ODOT 1997 STANDARDS OR BUTLER COUNTY REQUIREMENTS AND STANDARDS FOR SUBDIVISIONS. WHEN IN CONFLICT, THE COUNTY REQUIREMENTS SHALL PREVAIL.  
SUMP COLLECTOR LINES SHALL BE CONSTRUCTED SDR 35 PVC, ARMCO 2000 OR APPROVED EQUAL.  
A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE BUTLER COUNTY ENGINEER'S OFFICE PRIOR TO THE START OF CONSTRUCTION.  
SANITARY SEWER MATERIALS AND INSTALLATION AS PER BUTLER COUNTY WATER & SEWER SPECIFICATIONS USING SECTION 3110 FOR PVC, SDR-35 & 26 PIPE, SECTION 3140 FOR ABS PVC COMPOSITE PIPE. SECTION 3410 FOR MANHOLES.  
SANITARY LATERALS SHALL BE EXTENDED TO AT LEAST TEN (10) FEET BEYOND THE PROPERTY/ RIGHT-OF-WAY LINE OR TO THE EDGE OF THE EASEMENT, WHICHEVER IS GREATER.  
THE UPSTREAM TERMINUS OF THE SANITARY SEWER LATERALS SHOWN HERE ON ARE TO BE 12 FEET BELOW THE ELEVATION OF THE BACK OF THE CURB.  
WATER MAIN SHALL HAVE 4' MINIMUM DEPTH TO TOP OF PIPE.  
ALL WATER MAINS TO BE DUCTILE IRON PIPE, CL. 53 AWWA C-151.  
WATER MAIN MATERIALS, VALVES, FIRE HYDRANTS, FITTINGS, APPURTENANCES, AND INSTALLATION TO BE AS BUTLER COUNTY SPECIFICATIONS, AND SHALL HAVE RESTRAINED JOINTS. ALL WATER MAIN VALVES TO HAVE A MINIMUM DEPTH OF 2.5 AND A MAXIMUM OF 4.0' FROM PROPOSED GRADE TO THE TOP OF THE VALVE OPERATING NUT.  
WATER MAIN SHALL HAVE 10' HORIZONTAL & 18" VERTICAL SEPARATION (OUTSIDE EDGE TO EDGE) WITH ALL OTHER PIPE.  
ALL DOWNSPOUT LINES SHALL BE ON SPLASHBLOCKS AND MAY NOT BE CONNECTED TO THE CURB.  
ALL TRENCHES WITHIN THE RIGHT-OF-WAY AND UTILITY EASEMENTS SHALL BE COMPAKTED AND BACKFILLED IN ACCORDANCE WITH ITEM 203 AND 603 IN THE CURRENT OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS MANUAL.  
THE DEVELOPER SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONDUITS OF THE FULL WIDTH OF THE PUBLIC RIGHT-OF-WAY AS CALLED FOR ON THE TYPICAL SECTION FOR USE BY THE ELECTRIC, TELEPHONE, AND CABLE TELEVISION SERVICES. THE DEVELOPER SHALL COORDINATE THE LOCATION OF THE LINES WITH EACH UTILITY COMPANY.  
ALL ELECTRICAL TRANSFORMERS SHALL BE LOCATED SO THAT THEY DO NOT INTERFERE WITH EXISTING MANHOLES OR WATER MAIN APPURTENANCES.  
STORM SEWER PIPE SHALL BE TYPE "B" & "C" CONDUIT, 707.42 PVC, ALL DIA. (CONTECH A200 OR EQUAL), 707.33 PVC, UP TO & INCLUDING 24" DIA (HANCO, ADS, OR EQUAL), 707.01 CMP, ALL DIA, 706.02, REINFORCED CONCRETE PIPE, ALL DIA.  
BUTLER COUNTY WATER & SEWER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE RELOCATION, REPAIR OR REPLACEMENT OF ANY OTHER UTILITY INSTALLED WITHIN FIVE (5) FEET OF THE CENTERLINE OF ANY SANITARY MAIN SEWER OR WATER MAIN.  
PRIVATE DRIVEWAYS, PARKING LOTS AND OTHER PAVED AREAS, EARTHEN BERMS OR STRUCTURES SHOULD NOT BE CONSTRUCTED OVER PRIVATE WATER OR SEWER SERVICE LINES WITHIN THE PUBLIC ROAD RIGHT OF WAY OR WITHIN EASEMENT AREAS FOR THE PUBLIC UTILITIES. SHOULD THIS OCCUR, THE PROPERTY OWNER WILL BE HELD RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ANY FOR PRIVATE ACCESS TO ANY SANITARY METER PITS, MANHOLE COVERS, ETC. INCLUDING CONSTRUCTION WITH THESE PRIVATE SERVICE LINES AND FOR ANY DAMAGE OR RESTORATION OF THE PAVED SURFACES OR STRUCTURES THAT MAY RESULT FROM THE FUTURE OPERATION, MAINTENANCE, REPAIR OR REPLACEMENT OF SAID SERVICE LINES AND APPURTENANCES.  
LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY GROUND CONDITIONS AND EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.  
THE EXISTING UTILITIES SHOWN ARE FOR CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE OWNER ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.  
BUTLER COUNTY ASSUMES NO MAINTENANCE RESPONSIBILITY FOR PRIVATE DRIVES.



SECTION 20  
PROJECT AREA 14.065 ACRES  
AREA IN BUILDING LOTS 4.732 ACRES  
AREA IN OPEN SPACE LOTS 8.230 ACRES  
AREA IN R/W 1.103 ACRES

SETBACKS  
SECTION LOTS MINIMUM TYPICAL FRONT SIDE TOTAL BOTH SIDES REAR  
20 522-542 60' 8,000 S.F. 20' - 8' 20'

THE TOTAL NUMBER OF LOTS IN SECTION 20 INCLUDING OPEN SPACE IS 24.

SECTION 20  
CURRENT ZONE: MU-PUD & R-PUD

BUTLER COUNTY WILL NOT BE RESPONSIBLE FOR ANY PAVEMENT OR STORM SEWER REPAIRS RESULTING FROM WATER MAIN REPAIRS. BUTLER COUNTY ALSO WILL NOT BE RESPONSIBLE FOR ADJUSTING VALVES, FIRE HYDRANTS, METER PITS, ETC. AS A RESULT OF GRADE CHANGES. THE GRANTOR SHALL BE RESPONSIBLE FOR THE PROPER ADJUSTMENT OF VALVES, FIRE HYDRANTS, METER PITS, ETC., TO THE SATISFACTION OF BUTLER COUNTY, DUE TO GRADE CHANGES, PAVING, REPAVING, ETC., INITIATED BY THE GRANTOR.

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

ALL BUILDINGS TO BE SERVED BY THE PUBLIC SEWER SYSTEM SHALL BE CONSTRUCTED SO AS TO PROVIDE A MINIMUM OF FOUR FEET (4') OF VERTICAL SEPARATION BETWEEN THE PUBLIC SANITARY SEWER, AT THE POINT OF CONNECTION, AND THE LOWEST BUILDING LEVEL SERVED BY A GRAVITY SEWER CONNECTION. IN ADDITION, SAID BUILDING LEVEL SHALL BE AT LEAST ONE FOOT (1') ABOVE THE LOWEST POINT OF FREE-OVERFLOW (NON-SEALED MANHOLE COVER) UPSTREAM OF ANY TREATMENT FACILITY OR WASTEWATER PUMPING FACILITY THAT RECEIVES THE DISCHARGE FROM SAID BUILDING. SAID MINIMUM SERVICE LEVELS SHALL BE RECORDED ON THE "AS BUILT" PLANS FOR THE DEVELOPMENT WHICH WILL BE KEPT ON FILE IN THE OFFICE OF BUTLER COUNTY SANITARY ENGINEER.

SANITARY SEWER LATERALS, WHICH SHALL INCLUDE ALL PIPE AND APPURTENANCES FROM THE BUILDING TO THE PUBLIC SEWER MAIN AND CONNECTION TO THE PUBLIC SEWER MAIN SHALL BE CONSIDERED PRIVATE AND THE RESPONSIBILITY OF THE PROPERTY OWNER. MANHOLE COVERS ON THE PUBLIC SIDE OF THE SEWER SHALL BE ANY PIPING THAT EXTENDS OUT FROM THE MAIN LINE OF THE SEWER.

ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION ARE TO BE FINAL GRADE AND ARE TO REMAIN SO. SHALL BE SEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH STATE OF OHIO SPECIFICATIONS, ITEM 659.

THE CONTRACTOR SHALL SEED AND MULCH DISTURBED GRASS AREAS WITH:

3 LBS. WHEAT OR RYE PER 1000 SQ. FT.

10 LBS. 12-12-12 FERTILIZER PER 1000 SQ. FT.

2 OR 3 BALES OF STRAW PER 1000 SQ. FT.

THE CONTRACTOR SHALL ALSO PROVIDE OTHER EROSION CONTROL MEASURES AS MAY BE REQUIRED BY BUTLER COUNTY ENGINEER DURING THE CONSTRUCTION PHASE.

SEEDING - SPECIFICATIONS AT DETENTION BASIN:

RED FESCUE 1 LB. PER 1000 SQ. FT.  
KENTUCKY BLUEGRASS 1/2 LB. PER 1000 SQ. FT.  
PERENNIAL RYEGRASS 1/2 LB. PER 1000 SQ. FT.

FERTILIZER: 12 - 12 - 12

MULCH - 3 BALES OF STRAW PER 1000 SQ. FT.

MULCH TIE DOWN: LIQUID ASPHALT (R.C. 70, 25 OR 800) 40 GALS. PER 1000 SQ. YDS. OR PLASTIC MULCH NETTING, STAPLED IN PLACE.

SOD: TO BE STAKED IN PLACE.

NOTES

- ITEM NUMBERS REFER TO THE OHIO DEPARTMENT OF HIGHWAYS CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND ALL CONSTRUCTION WORK SHALL BE DONE ACCORDING TO SAID SPECIFICATIONS OR BUTLER COUNTY REQUIREMENTS AND STANDARDS FOR SUBDIVISIONS. WHEN IN CONFLICT, THE COUNTY REQUIREMENTS SHALL PREVAIL.
- ITEMS THAT PERTAIN TO UNDERGROUND UTILITIES SUCH AS WATERMAIN PIPE, SANITARY SEWER PIPE, WATER VALVES AND MANHOLE FRAMES AND COVERS, ETC. WILL REMAIN UNDER SPECIFICATIONS OF THE UTILITY SERVING THE AREA. STORM SEWERS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUTLER COUNTY ENGINEER.
- ALL TRENCHES WITHIN THE RIGHT-OF-WAY AND UTILITY EASEMENTS SHALL BE COMPAKTED AND BACKFILLED IN ACCORDANCE WITH ITEMS 203 AND 603 IN THE STATE SPECIFICATIONS.
- SURFACE COURSE (ITEM 448) AND TACK COAT (ITEM 407) ARE TO BE APPLIED NO SOONER THAN NINE (12) MONTHS AFTER THE LEVELING COURSE (ITEM 448), AND FIFTY (50%) PERCENT OF THE HOMES ARE COMPLETED. IF AFTER TWO (2) YEARS, FIFTY (50) PERCENT OF THE HOMES HAVE NOT BEEN COMPLETED, THEN THE TOP COURSE MAY BE APPLIED.
- A MINIMUM 10' UTILITY EASEMENT SHALL BE SHOWN ON THE RECORD PLAT PRAIRIE, AND IMMEDIATELY ADJACENT TO THE RIGHT-OF-WAY, ALLOWING FOR INSTALLATION, OPERATION AND MAINTENANCE OF SEWERS, WATER, ELECTRIC AND TELEPHONE CONDUIT AND ANY OTHER PUBLIC OR QUASI-PUBLIC UTILITY.
- DEVELOPER SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONDUITS FOR THE USE OF THE PUBLIC RIGHT-OF-WAY, AS DEPOTED ON 38 FOR USE BY THE ELECTRIC, TELEPHONE AND CABLE TV SERVICES. THE LOCATION OF THESE LINES SHALL BE COORDINATED WITH UTILITY COMPANIES BY THE DEVELOPER.
- SANITARY LATERALS SHALL BE EXTENDED BEYOND THE LIMITS OF THE UTILITY EASEMENTS, BUT NOT TO EXCEED 12' FROM THE RIGHT-OF-WAY LINE.
- ALL ELECTRICAL TRANSFORMERS SHALL BE LOCATED SO THAT THEY DO NOT INTERFERE WITH THE EXISTING MANHOLES.
- SUMP LINE CONDUITS ARE TO BE SDR 35.
- THE SANITARY SEWER SHALL BE PLACED IN SUCH A MANNER THAT THE SANITARY MANHOLE COVER DOES NOT CONFLICT WITH THE SIDEWALK.

# WINDING CREEK SECTION 20 AKA CARRIAGE HILL SECTION 20

SECTION 2, TOWN 2, RANGE 3  
LIBERTY TOWNSHIP  
BUTLER COUNTY, OHIO

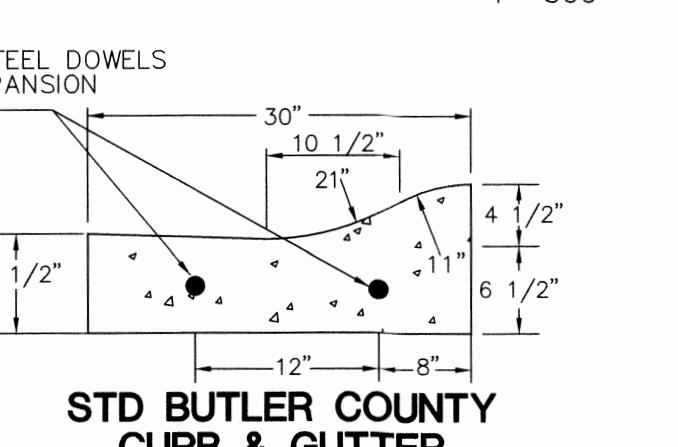
RECEIVED  
MAR 05 2019

**WINDING CREEK  
SECTION 20, RANGE 3  
AKA CARRIAGE HILL  
SECTION 20**  
SECTION 2, TOWN 2, RANGE 3  
LIBERTY TOWNSHIP  
BUTLER COUNTY, OHIO



OVERALL PROJECT MAP

1"=500'



STD BUTLER COUNTY  
CURB & GUTTER

N. T. S.

## INDEX

SHEET	DESCRIPTION
1	COVER SHEET
2	IMPROVEMENT PLAN
3	GRADING & SWP3
4	PROFILE & DETAILS
5-6	BUTLER COUNTY WATER & SEWER STANDARD DETAILS
7	EROSION CONTROL NOTES & DETAILS

NOTE:  
ALL LOTS SHALL BE SERVED BY SANITARY SEWER AND PUBLIC WATER SYSTEMS.

PROJECT BENCHMARK = CENTERLINE NAIL LOCATED AT THE INTERSECTION OF CARRIAGE HOUSE BOULEVARD AND STAGECOACH WAY. ELEVATION = 790.52

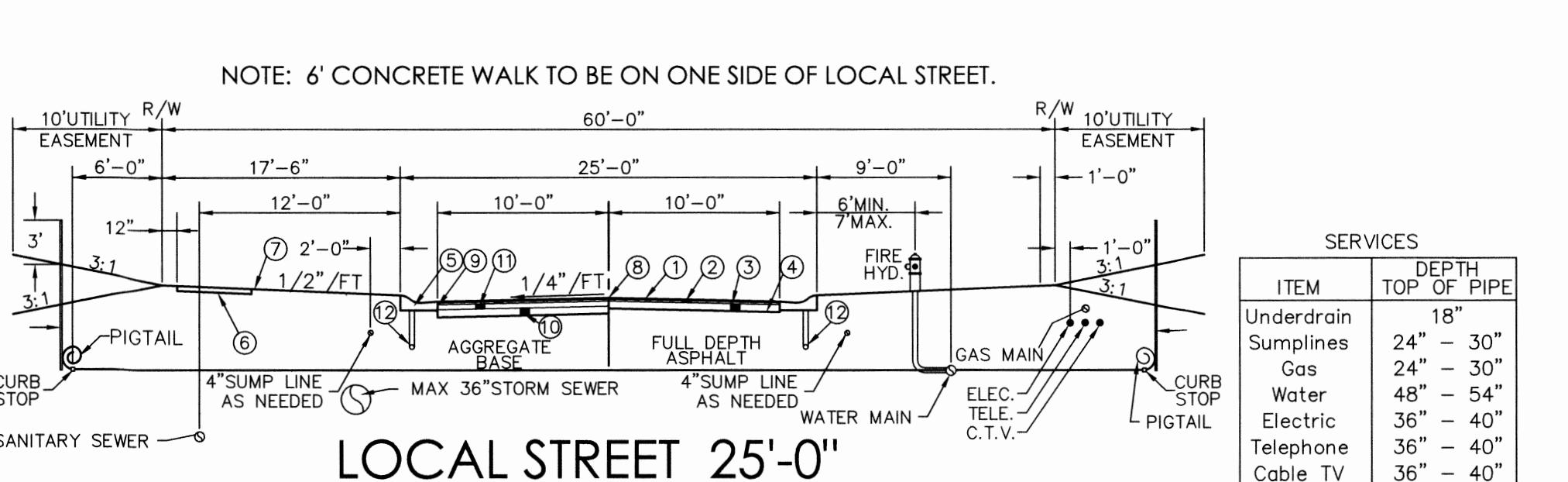
Sheet Title

**COVER SHEET**

Drawing Number 04476.06

Sheet Number AS NOTED

File Number 04476



GENERAL: THIS DRAWING SHOWS THE STANDARD TYPE OF CURB AND GUTTER SECTION USED ON MOST TYPES OF PAVEMENT. TYPICAL SECTION OF PROJECT SHOWS THE TYPE TO BE USED. ALSO THE THICKNESS OF THE EDGE OF THE PAVEMENT OR THE EDGE OF THE CURB AND GUTTER SECTION.  
JOINTS: ONE INCH EXPANSION JOINTS SHALL EXTEND UP TO TOP OF THE CURB AND SHALL BE CONSTRUCTED IN THE CURB AND GUTTER SECTION IN SUCH A MANNER THAT THE JOINT WILL EXTEND THE FULL WIDTH OF THE GUTTER AND INTO THE SIDEWALK. THE JOINTS SHALL BE SET IN THE JOINT TO AN ELEVATION OF AT LEAST TWO (2) INCHES ABOVE THE FLOW LINE OF THE GUTTER SECTION AT EXPANSION JOINTS. ALL JOINTS SHALL BE CONSTRUCTED PERPENDICULAR TO THE EDGE OF THE CURB AND TO THE SURFACE OF THE PAVEMENT. TRANSITION EXPANSION JOINT MATERIAL MUST MEET THE REQUIREMENTS OF 705.03 EXPANSION MATERIAL AND JOINT SEALER IS NOT REQUIRED WHEN CURB IS ADJACENT TO FLEXIBLE TYPE PAVEMENT.

1-800-362-2764  
Call Before You Dig  
(NON MEMBERS MUST BE CALLED DIRECTLY)

OHIO  
Utilities Protection  
Service

Call Before You Dig



**WINDING CREEK  
SECTION 20  
AKA CARRIAGE HILL  
SECTION 20**

**SECTION 2, TOWN 2, RANGE 3  
LIBERTY TOWNSHIP  
BUTLER COUNTY, OHIO**

NOTE: HIGH WATER TABLES ARE APPARENT IN THIS AREA.  
IF BASEMENTS ARE CONSTRUCTED, IT IS THE RESPONSIBILITY  
OF THE BUILDER TO TAKE SPECIAL PRECAUTION TO  
ENSURE THE BASEMENTS STAY DRY.

NOTE: 6" OF TOPSOIL MAY BE PLACED OVER CLEARED CUT AREAS OF THE LOTS. AFTER COMPACTION EARTHWORK HAS BEEN COMPLETED, THE TOP 18" OF FILL MAY BE TOPSOIL.

## GENERAL NPDES NOTES

1. PROJECT INVOLVES THE CONSTRUCTION AND ASSOCIATED INFRASTRUCTURE FOR A LOW DENSITY SINGLE FAMILY SUBDIVISION.
2. AREA TO BE DISTURBED IS APPROXIMATELY 12 ACRES.
3. APPROXIMATELY 4.5 OF IMPERVIOUS SURFACE IS PROPOSED RESULTING IN 37 PERCENT OF IMPERVIOUSNESS.
4. PRE-CONSTRUCTION RUNOFF COEFFICIENT IS 0.30.  
POST-CONSTRUCTION RUNOFF COEFFICIENT IS 0.55.
5. THE PRIMARY SOIL TYPE IS RUSSELL - MIAMIAN & XENIA SILT LOAM.
6. THE PRIOR LAND USE IS FARM CROPS.
7. STONY RUN IS THE FIRST NAMED STREAM RECEIVING RUNOFF FROM THIS SITE. RUNOFF IS ULTIMATELY RECEIVED BY GREGORY CREEK.
8. NPDES STORM WATER GENERAL PERMIT NUMBER: 1GC05766\*BG.
9. PROJECT DURATION: THRU 2021
10. SITE OPERATOR: LIBERTY LAND COMPANY, LLC.  
5342 CARRIAGE HOUSE BOULEVARD  
LIBERTY TOWNSHIP, OH 45011  
(513) 894-4455
11. SWPPP CONTACT: LIBERTY LAND COMPANY, LLC.  
5342 CARRIAGE HOUSE BOULEVARD  
LIBERTY TOWNSHIP, OH 45011  
(513) 894-4455
12. UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES "RAINWATER AND LAND DEVELOPMENT" MANUAL, CURRENT EDITION, SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.
13. THE DEVELOPER AND CONTRACTOR SHALL ABIDE BY THE RULES AND REGULATIONS SET FOURTH IN THE OHIO EPA PERMIT NO. OHC000004- "AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY" UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES).
14. PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS, ALL SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE IN PLACE.
15. SEDIMENT CONTROL STRUCTURES SHALL BE FUNCTIONAL THROUGHOUT THE COURSE OF EARTH DISTURBING ACTIVITY. AND SHALL CONTINUE TO FUNCTION UNTIL THE UP SLOPE DEVELOPMENT AREA IS RESTABLISHED. AS CONSTRUCTION PROGRESSES AND THE TOPOGRAPHY IS ALTERED, APPROPRIATE CONTROLS MUST BE CONSTRUCTED OR EXISTING CONTROLS ALTERED TO ADDRESS THE CHANGING DRAINAGE PATTERNS.
16. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF DEMOLITION AND ARE TO FINAL GRADE AND TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH STATE OF OHIO SPECIFICATION ITEM 659, AND IN ACCORDANCE WITH THE CONDITIONS OF THE NPDES STORM WATER GENERAL PERMIT.

## MAINTENANCE OF CONTROLS:

1. SILT FENCE AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND DAILY DURING A PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC ON A FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE AND PREPARED FOR SEEDING.

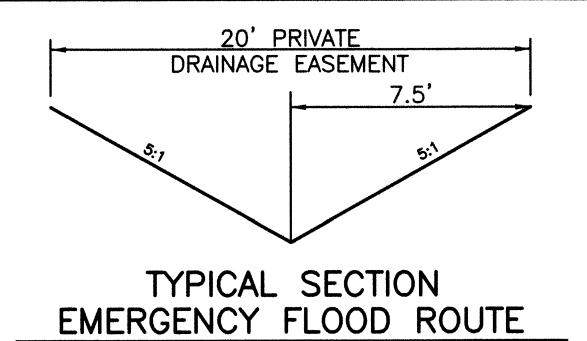
## CONSTRUCTION SEQUENCE

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES BEFORE UPSLOPE CLEARING AND GRADING.
2. GRADING AND STRIPPING OF THE REMAINING AREAS OF THE DEVELOPMENT SITE OR PROJECT AREA.
3. INSTALL STORMWATER MANAGEMENT SYSTEM.
4. TEMPORARY VEGETATIVE STABILIZATION OF EROSION AND SEDIMENT CONTROL MEASURES.
5. GRADING OF SUBDIVISION STREET.
6. INSTALLATION OF ALL UTILITIES.
7. SITE CONSTRUCTION.
8. FINAL GRADING, STABILIZATION, AND LANDSCAPING.
9. REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES.

\* DUE TO THE DYNAMICS AND STAGING OF EARTH MOVEMENT. CONTRACTOR MAY NEED TO ALTER THE EROSION CONTROL MEASURES AS SHOWN HEREON. CONTRACTOR TO APPLY (B.M.P.) BEST MANAGEMENT PRACTICES IN ORDER TO CONTROL THE RUNOFF OF SILT AND SEDIMENT.

\* ADDITIONAL SILT FENCE MAY BE REQUIRED AS SITE CONDITIONS DETERMINE

\* IF A TEMPORARY STOCKPILE IS CREATED, SILT FENCE SHALL BE PLACED AT THE TOE OF SLOPE



LOT DRAINAGE ARROWS SHOWN HEREON ARE BASED ON DIRECTION OF DRAINAGE AFTER COMPLETION OF RESIDENTIAL CONSTRUCTION.

A DETAILED MAINTENANCE PLAN THAT DESCRIBES PROCEDURES (E.G. INSPECTIONS SEE SECTION 2.18 INSPECTION OF STORM WATER CONTROLS/INTERNAL INSPECTIONS) NEEDED TO ENSURE THE CONTINUED PERFORMANCE OF CONTROL PRACTICES SHALL BE LOCATED AT THE ENTRANCE OF THE DEVELOPMENT AREA OR AT THE JOB TRAILER IN A WELL-MARKED CONTAINER ACCESSIBLE AT ALL TIMES. SUCH PLANS MUST ENSURE THAT POLLUTANTS COLLECTED WITHIN STRUCTURAL

✓ ESTABLISH VEGETATION ON ALL BARE AREAS  
AS PER O.E.P.A. N.P.D.E.S. REGULATIONS.

CONTRACTOR IS RESPONSIBLE FOR N.P.D.E.S.  
INSPECTIONS DURING CONSTRUCTION PERIOD.

Sheet Title

GRADING & SWR3

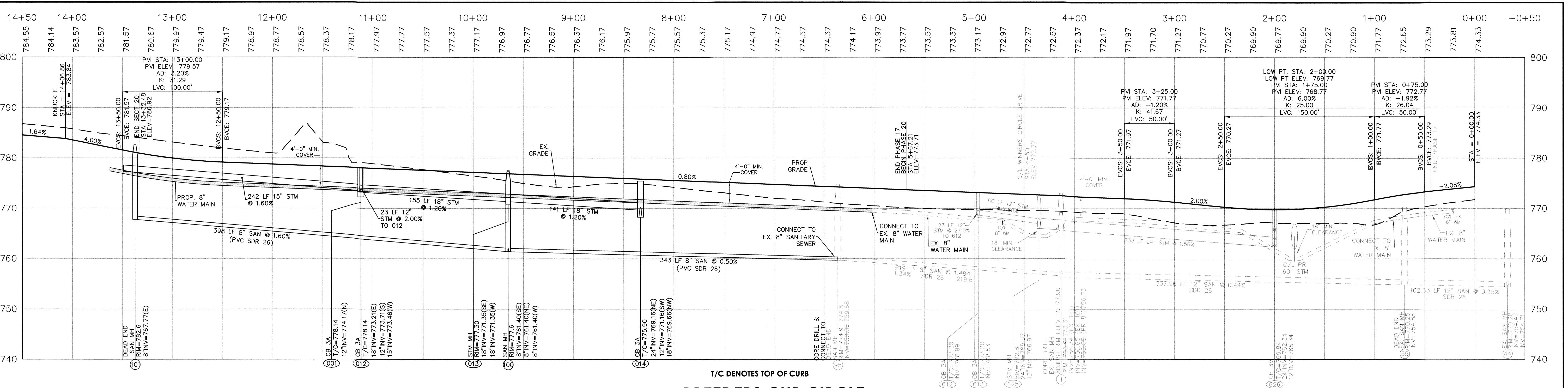
## **GRADING & SWPS**

---

Project Number 04476.06

Drawing Scale 1"=50'

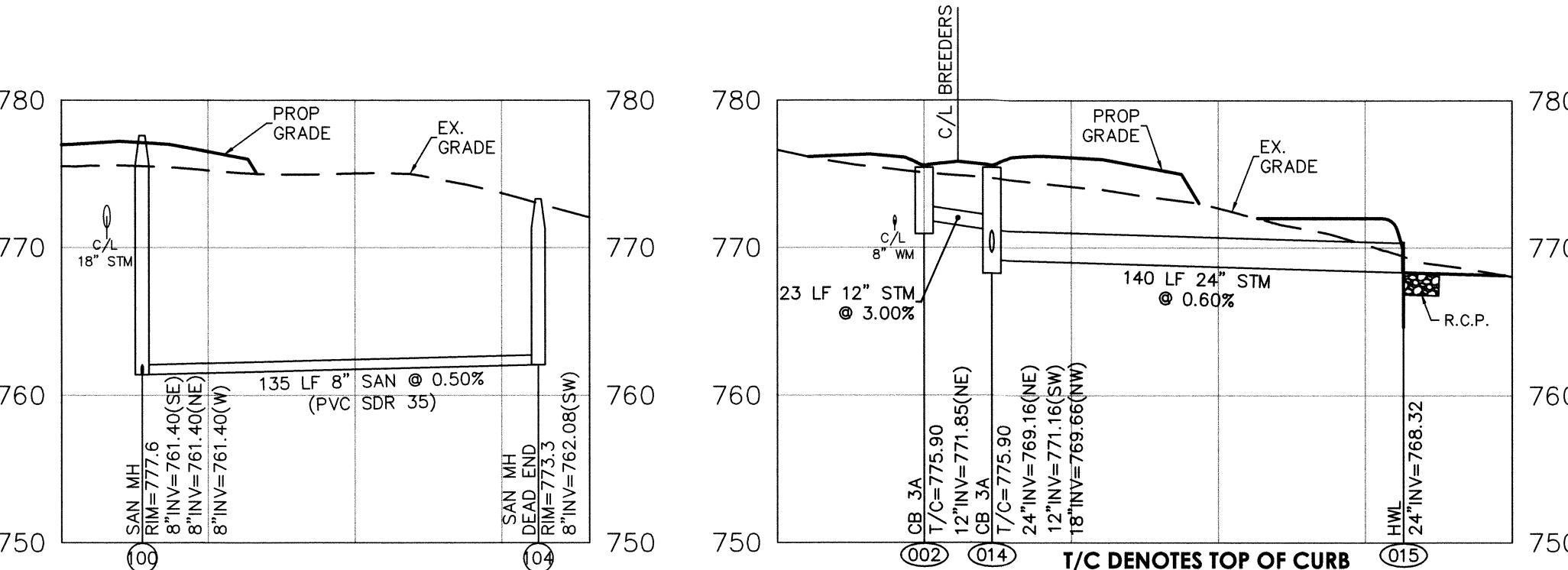
Sheet Number 37



# **BREEDERS CUP CIRCLE**

---

1"=50' HOR. / 1"=10' VERT.

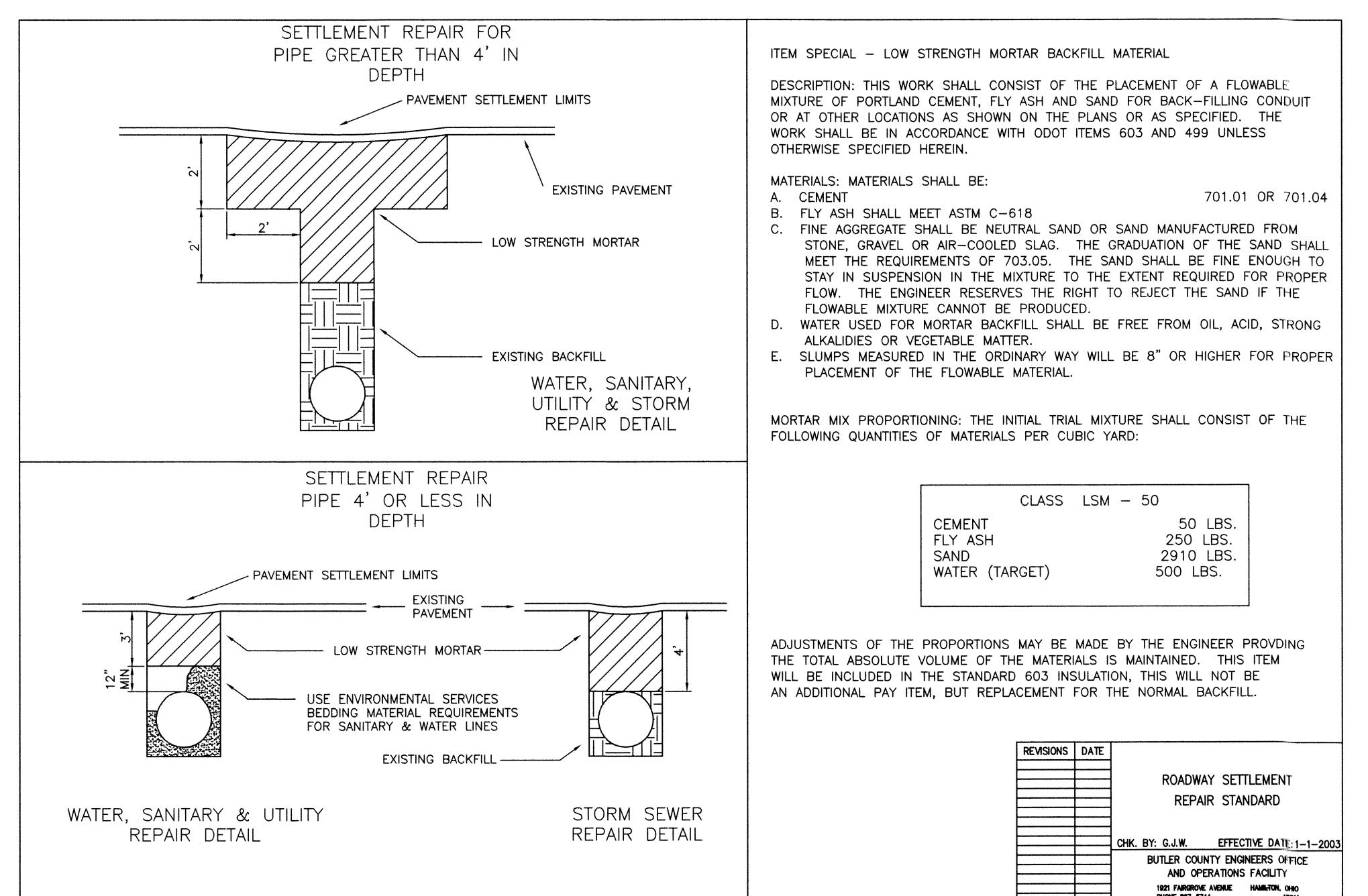
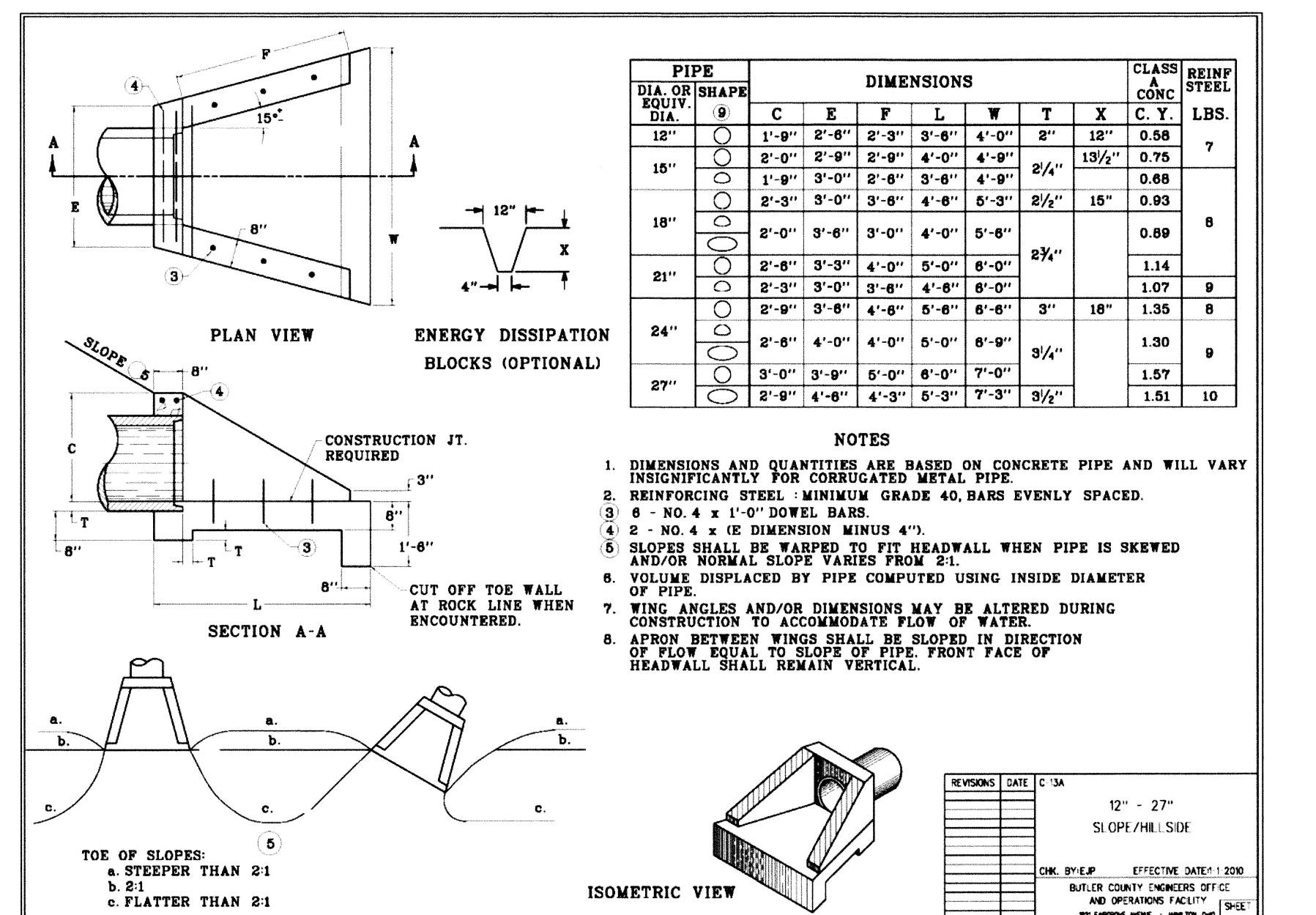


# **SANITARY SEWER 100 & 104**

1"=50' HOR. / 1"=10' VERT.

# STORM SEWER 014-015 & 002

1"=50' HOR. / 1"=10' VER



**WINDING CREEK  
SECTION 20  
AKA CARRIAGE HILL  
SECTION 20**

**SECTION 2, TOWN 2, RANGE 3  
LIBERTY TOWNSHIP  
BUTLER COUNTY, OHIO**







**WINDING CREEK**  
**SECTION 20**  
**AKA CARRIAGE HILL**  
**SECTION 20**

**SECTION 2, TOWN 2, RANGE 3**  
**LIBERTY TOWNSHIP**  
**BUTLER COUNTY, OHIO**

SECTION 2, TOWN 2, RANGE 3  
LIBERTY TOWNSHIP  
BUTLER COUNTY, OHIO

Carriage Hill Section 20

DESIGN FREQ = 10 YEAR  
A = 170  
B = 23



## DRAINAGE MAP

Part Number 04476.06

g Scale 1"=50'  
Number 1 /1

Number 1/1  
Date 24/4/26

*Call Before You Dig*  
**0-362-2764**

WORKING DAYS BEFORE YOU DIG  
(SITES MUST BE CALLED DIRECTLY)

Page 1 of 1

SCALE IN FEET

0 25 50 100 150

CAN  
(NO)