

**NORTH**  
 GRAPHIC SCALE  
 0 25 50  
 1 INCH = 50 FT.  
 (FULL SIZE DRAWINGS ONLY)

**LEGEND FOR SYMBOLS**

- PROP. 1' CONTOUR
- XXX- PROP. 5' CONTOUR
- XXX- EX. 1' CONTOUR
- XXX- EX. 5' CONTOUR
- OF ORANGE CONSTRUCTION FENCE (LIMITS OF WORK/DISTURBANCE)
- ← 100 YR FLOW PATH
- F.G. FINISH GRADE (GARAGE FLOOR) ELEVATION
- B.F. BASEMENT FLOOR ELEVATION (BOTTOM OF FOOTING TYPICALLY 1 FOOT BELOW BASEMENT FLOOR)
- TREE CLEARING LIMITS
- PROPOSED HOUSE (SCHEMATIC ONLY) (ACTUAL HOUSE SIZE MAY VARY)

ALL REQUIRED APPROVALS FROM SUMMIT COUNTY AND COPLEY TOWNSHIP MUST BE OBTAINED BY THE OWNER AND/OR CONTRACTOR PRIOR TO COMMENCING ANY EARTHWORK ACTIVITIES.

CONTOURS IN ROADWAY AREAS ARE TOP OF PROPOSED PAVEMENT. CONTRACTOR SHALL PREPARE THE ROADWAY AREAS TO SUBGRADE OF PROPOSED PAVEMENT.

SOIL BORINGS HAVE BEEN PERFORMED BY THE DEVELOPER. VARIATION IN EXISTING SOIL CONDITIONS MAY IMPACT THE EARTHWORK QUANTITIES IF UNUSABLE SOILS ARE ENCOUNTERED DURING CONSTRUCTION

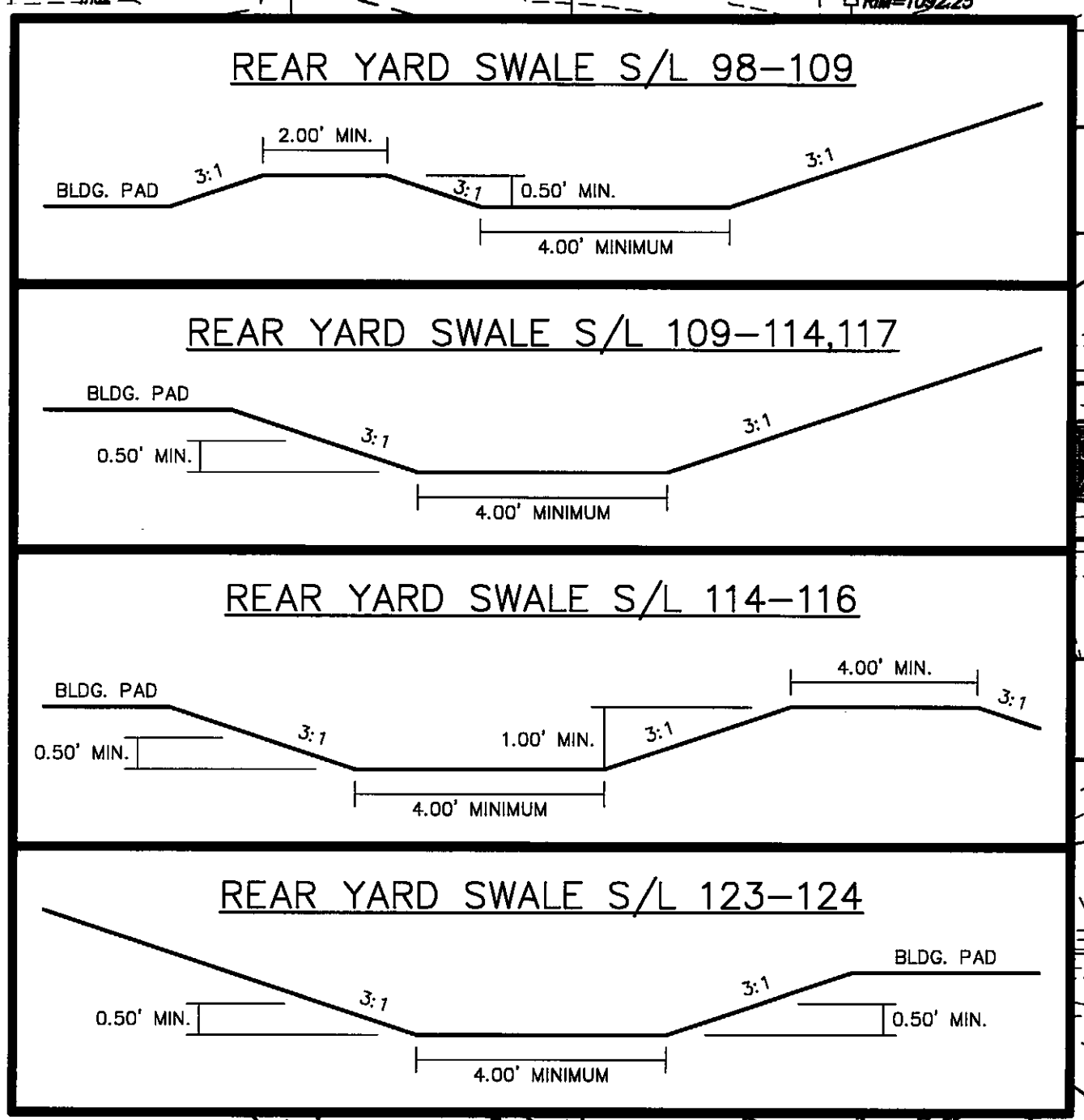
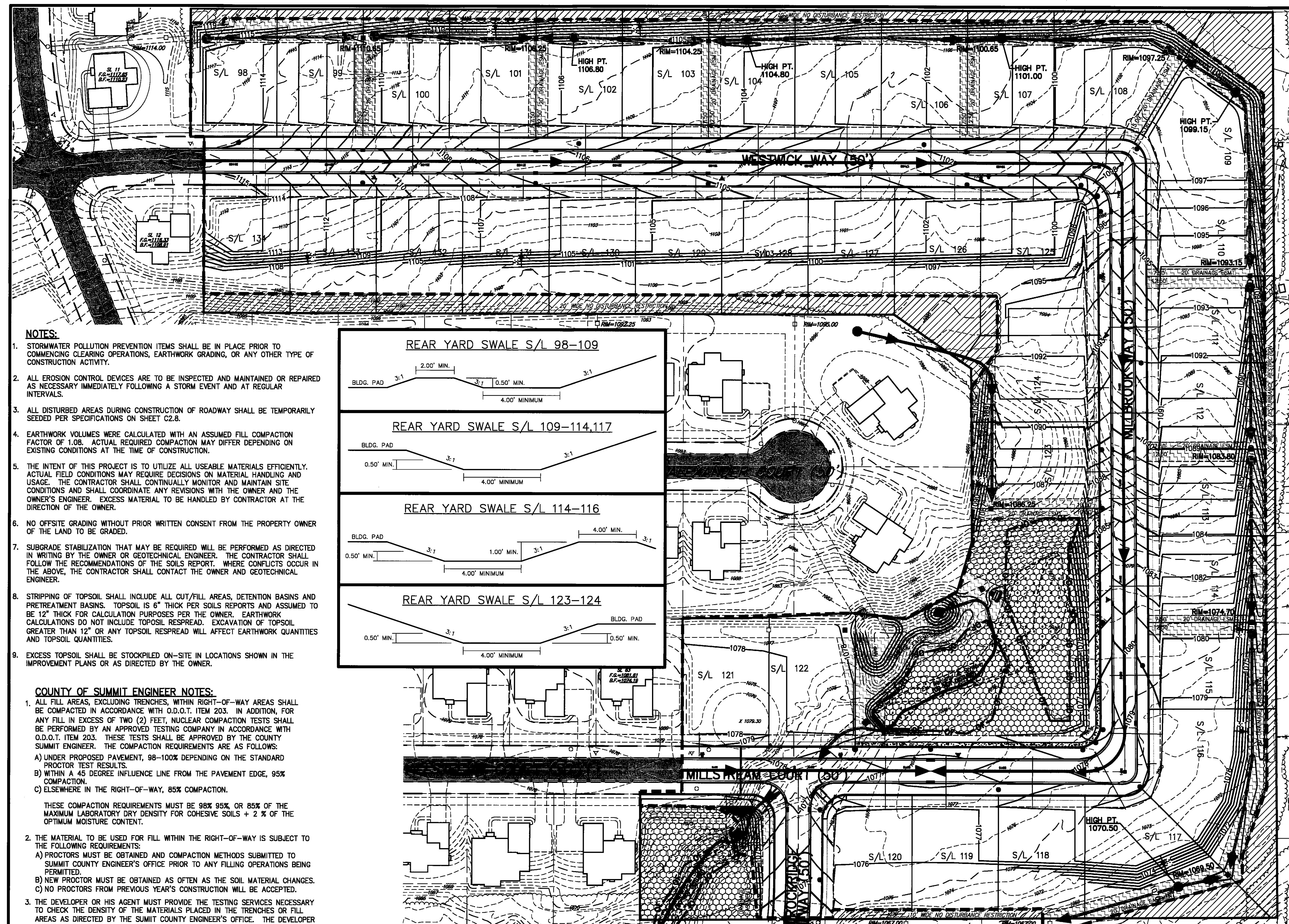
**APPROXIMATE EARTHWORK VOLUMES (C.Y.)**

AREA OF IMPACT	CUT	FILL
EXCAVATION & EMBANKMENT	21,800	26,800
UTILITY TRENCHING	3,200	
NET	1,800 (FILL)	
TOP SOIL STRIP (12" ASSUMED)	18,900	
TOPSOIL REQUIRED (12" THICK)		16,800
LANDSCAPE AREAS		0
NET TOTAL	2,100 (CUT)*	

TOTAL EARTHWORK CLEARING AREA = 11.7 ACRES  
 TOTAL TOPSOIL STRIP AREA = 11.7 ACRES  
 TOTAL TOPSOIL PLACED AREA = 10.4 ACRES

\*EXCESS TOPSOIL TO BE USED TO BALANCE THE SITE ONLY IN AREAS WHERE ENGINEERED FILL IS NOT REQUIRED.

- NO DISTURBANCE RESTRICTION
- GREEN AREA RESTRICTION
- DRAINAGE EASEMENT



**NOTES:**

1. STORMWATER POLLUTION PREVENTION ITEMS SHALL BE IN PLACE PRIOR TO COMMENCING CLEARING OPERATIONS, EARTHWORK GRADING, OR ANY OTHER TYPE OF CONSTRUCTION ACTIVITY.
2. ALL EROSION CONTROL DEVICES ARE TO BE INSPECTED AND MAINTAINED OR REPAIRED AS NECESSARY IMMEDIATELY FOLLOWING A STORM EVENT AND AT REGULAR INTERVALS.
3. ALL DISTURBED AREAS DURING CONSTRUCTION OF ROADWAY SHALL BE TEMPORARILY SEEDED PER SPECIFICATIONS ON SHEET C2.8.
4. EARTHWORK VOLUMES WERE CALCULATED WITH AN ASSUMED FILL COMPACTION FACTOR OF 1.08. ACTUAL REQUIRED COMPACTION MAY DIFFER DEPENDING ON EXISTING CONDITIONS AT THE TIME OF CONSTRUCTION.
5. THE INTENT OF THIS PROJECT IS TO UTILIZE ALL USEABLE MATERIALS EFFICIENTLY. ACTUAL FIELD CONDITIONS MAY REQUIRE DECISIONS ON MATERIAL HANDLING AND USAGE. THE CONTRACTOR SHALL CONTINUALLY MONITOR AND MAINTAIN SITE CONDITIONS AND SHALL COORDINATE ANY REVISIONS WITH THE OWNER AND THE OWNER'S ENGINEER. EXCESS MATERIAL TO BE HANDLED BY CONTRACTOR AT THE DIRECTION OF THE OWNER.
6. NO OFFSITE GRADING WITHOUT PRIOR WRITTEN CONSENT FROM THE PROPERTY OWNER OF THE LAND TO BE GRADED.
7. SUBGRADE STABILIZATION THAT MAY BE REQUIRED WILL BE PERFORMED AS DIRECTED IN WRITING BY THE OWNER OR GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE SOILS REPORT. WHERE CONFLICTS OCCUR IN THE ABOVE, THE CONTRACTOR SHALL CONTACT THE OWNER AND GEOTECHNICAL ENGINEER.
8. STRIPPING OF TOPSOIL SHALL INCLUDE ALL CUT/FILL AREAS, DETENTION BASINS AND PRETREATMENT BASINS. TOPSOIL IS 6" THICK PER SOILS REPORTS AND ASSUMED TO BE 12" THICK FOR CALCULATION PURPOSES PER THE OWNER. EARTHWORK CALCULATIONS DO NOT INCLUDE TOPSOIL RESPREAD. EXCAVATION OF TOPSOIL GREATER THAN 12" OR ANY TOPSOIL RESPREAD WILL AFFECT EARTHWORK QUANTITIES AND TOPSOIL QUANTITIES.
9. EXCESS TOPSOIL SHALL BE STOCKPILED ON-SITE IN LOCATIONS SHOWN IN THE IMPROVEMENT PLANS OR AS DIRECTED BY THE OWNER.

**COUNTY OF SUMMIT ENGINEER NOTES:**

1. ALL FILL AREAS, EXCLUDING TRENCHES, WITHIN RIGHT-OF-WAY AREAS SHALL BE COMPACTED IN ACCORDANCE WITH O.D.O.T. ITEM 203. IN ADDITION, FOR ANY FILL IN EXCESS OF TWO (2) FEET, NUCLEAR COMPACTION TESTS SHALL BE PERFORMED BY AN APPROVED TESTING COMPANY IN ACCORDANCE WITH O.D.O.T. ITEM 203. THESE TESTS SHALL BE APPROVED BY THE COUNTY SUMMIT ENGINEER. THE COMPACTION REQUIREMENTS ARE AS FOLLOWS:
  - A) UNDER PROPOSED PAVEMENT, 98-100% DEPENDING ON THE STANDARD PROCTOR TEST RESULTS.
  - B) WITHIN A 45 DEGREE INFLUENCE LINE FROM THE PAVEMENT EDGE, 95% COMPACTION.
  - C) ELSEWHERE IN THE RIGHT-OF-WAY, 85% COMPACTION.

THESE COMPACTION REQUIREMENTS MUST BE 98% 95%, OR 85% OF THE MAXIMUM LABORATORY DRY DENSITY FOR COHESIVE SOILS + 2 % OF THE OPTIMUM MOISTURE CONTENT.
2. THE MATERIAL TO BE USED FOR FILL WITHIN THE RIGHT-OF-WAY IS SUBJECT TO THE FOLLOWING REQUIREMENTS:
  - A) PROCTORS MUST BE OBTAINED AND COMPACTION METHODS SUBMITTED TO SUMMIT COUNTY ENGINEER'S OFFICE PRIOR TO ANY FILLING OPERATIONS BEING PERMITTED.
  - B) NEW PROCTOR MUST BE OBTAINED AS OFTEN AS THE SOIL MATERIAL CHANGES.
  - C) NO PROCTORS FROM PREVIOUS YEAR'S CONSTRUCTION WILL BE ACCEPTED.
3. THE DEVELOPER OR HIS AGENT MUST PROVIDE THE TESTING SERVICES NECESSARY TO CHECK THE DENSITY OF THE MATERIALS PLACED IN THE TRENCHES OR FILL AREAS AS DIRECTED BY THE SUMMIT COUNTY ENGINEER'S OFFICE. THE DEVELOPER WILL BE RESPONSIBLE FOR PAYMENT FOR THE TESTING SERVICES.
4. ANY MATERIALS THAT CAN NOT BE COMPACTED TO THE REQUIRED COMPACTION WILL NEED TO BE REMOVED AND REPLACED WITH MATERIALS THAT CAN ACHIEVE THE REQUIRED COMPACTION. IF THE PROPER COMPACTION IS NOT ATTAINED AND THE MATERIAL IS NOT REMOVED AND REPLACED PROPERLY THE ESCROW ACCOUNT OR BOND AMOUNT WILL NOT BE ALLOWED TO BE DRAWN UPON. THIS WILL PREVENT THE RELEASE OF THE PERFORMANCE BONDS FOR THE PROJECT.

JOB NO	12289F	SCALE	1"=50'
DRAWN BY	MJD	CHEK BY	CJO
DWG NAME	12289C-plan	DATE	SEPTEMBER, 2014

**HILLSIDE ESTATES - PHASE 4**  
**SITE EARTHWORK GRADING PLAN**  
 TOWNSHIP OF COPLEY, COUNTY OF SUMMIT, STATE OF OHIO

**NEFF & ASSOCIATES**  
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 Tel: 440.884.3100 | Fax: 440.884.3104

REV NO	DATE	DESCRIPTION	BY
3	02/27/15	REV. PER COSE & SUMMIT SWCD	CJO
2	11/17/14	REV. PER COSE,DOES,AKRON WTR.	CJO
1	09/15/14	ORIGINAL SUBMITTAL	CJO

**SHEET NO.**  
**C3.0**