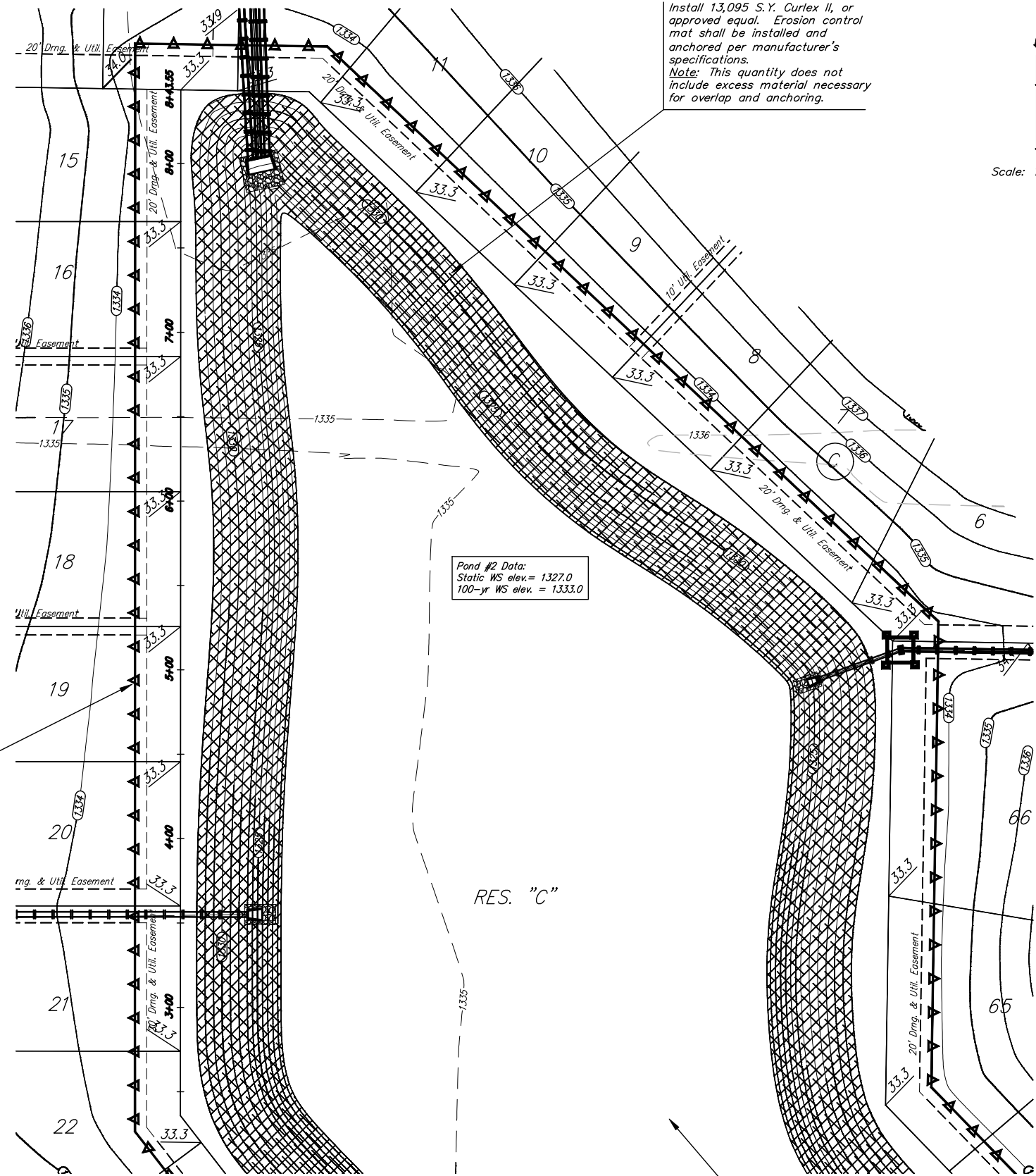


**BENCHMARKS:**  
 BM #1: BENT 60d NAIL IN LIGHT POLE, 55' SSW. OF THE E1/4 COR., SEC. 13, TWP. 26-S, R-1-W. ELEV. = 1336.54 NGVD29  
 BM #2: RAILROAD SPIKE IN E. FACE OF N. 74" POLE, 60± S. OF N. LINE, S1/2, NE1/4, SEC. 13, TWP. 26-S, R-1-W. ELEV. = 1335.93 NGVD29  
 BM #3: "□" CUT ON TOP OF NE COR. OF WATER VAULT, 437± E. & 54± N. OF S1/4 COR., SEC. 13, TWP. 26-S, R-1-W. ELEV. = 1334.81 NGVD29



Install 13,095 S.Y. Curlex II, or approved equal. Erosion control mat shall be installed and anchored per manufacturer's specifications.  
 Note: This quantity does not include excess material necessary for overlap and anchoring.

Scale: 1" = 40'

Pond #2 Data:  
 Static WS elev. = 1327.0  
 100-yr WS elev. = 1333.0

Construct 2,109 L.F. Erosion Control Berm

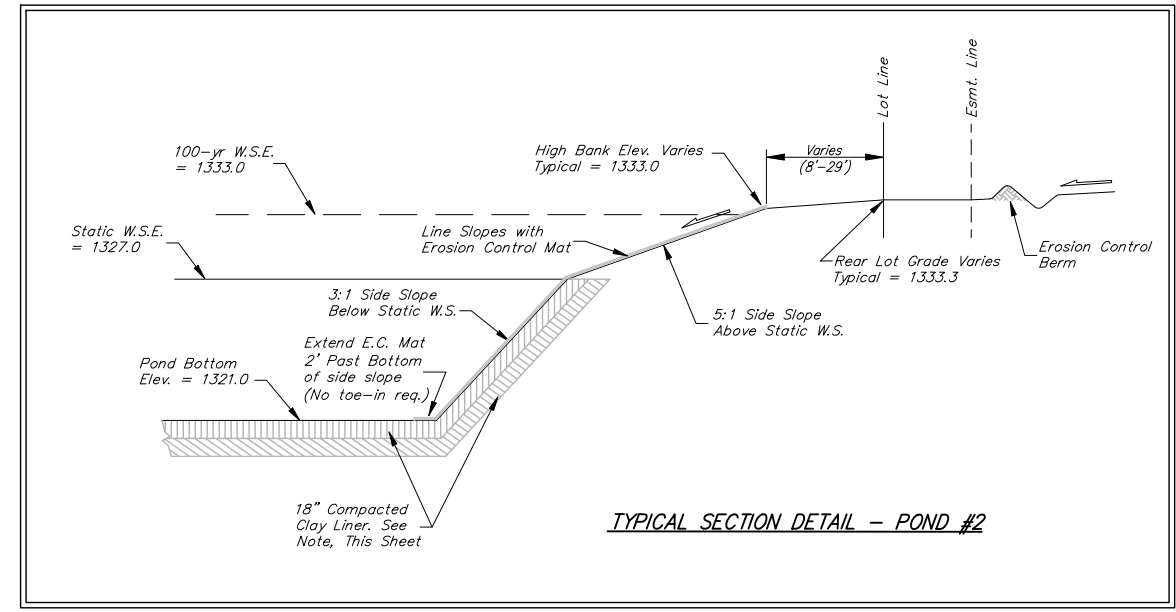
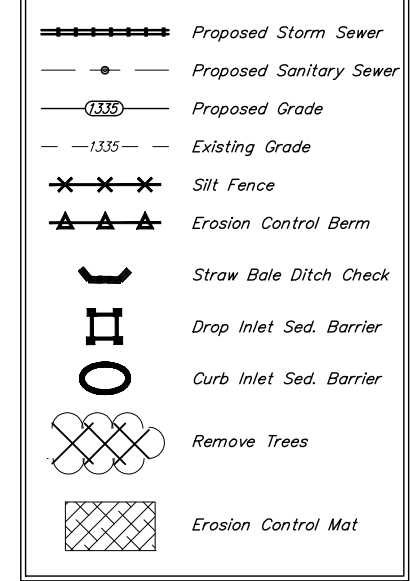
RES. "C"

Construct Pond #1, see detail, this sheet.

**POND NOTES:**

- Pond bottom and side slopes shall be over-excavated 18" and an 18" Clay Liner shall be constructed. The 18" Clay Liner shall be constructed in two distinct 9" lifts, each compacted to a minimum of 95% Standard Proctor Density. Cost of over-excavation to install Clay Liner shall be incidental to bid item, "Excavation."
- The material for the bottom 9" lift shall be a clay soil with a Plasticity Index (P.I.) of at least 20. The bottom lift shall completely seal the pond bottom and side slopes and leave no visible seams of sand. Boring logs, which will be available from Baughman Company upon request, show suitable material for the bottom 9" lift available in areas of pond construction and temporary ditch construction. The best available material from these locations shall be set aside, free of sand, during pond and temporary ditch construction for use as liner material.
- The material for the top 9" lift shall be an imported clay soil containing no sand with a P.I. of at least 30. Imported pond liner material shall be paid for per Cubic Yard as "Imported Pond Liner."
- Contractor shall incorporate Bentonite into top 6" of Pond Liner at 6% Application Rate. All costs associated with materials, mixing, and additional compaction shall be included in bid item "Bentonite Pond Liner."
- The compaction and P.I. of all liner material shall be verified during construction. P.I. determination and compaction testing shall be arranged by the contractor at the request of the inspector. Cost of testing shall be incidental to "Site Clearing & Restoration".

**Mass Grading and Erosion Control Plan Legend**



EROSION CONTROL MEASURE	UNITS	QUANTITY
INSTALL EROSION CONTROL MAT	S.Y.	13,095
INSTALL EROSION CONTROL BERM	L.F.	2,109

QUANTITIES ARE FOR INFORMATION ONLY!  
 CONTRACTOR SHALL VERIFY QUANTITIES PER FINAL BID QUANTITY SHEET.

**Baughman** NORTHGATE ADDITION  
**Pond #2**  
 Storm Water Drain #308

Baughman Company, P.A. 315 8th St. W. Wabash, IL 67211 P 316-262-7271 F 316-262-0149  
 ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER: 468-64234  
 DISION: AEG  
 DRAWN: RDM  
 APPROVED: AEG  
 DATE: 4-4-07  
 SCALE: NOTED  
 SHEET: **10 OF 48**

Northgate\Mass Grading\MASS\_PONDS.dwg