

BENCHMARK:  
 BM #1: "□" Cut in middle of  
 N headwall of RCBC on 21st  
 St. North. 1004.3' W & 22.1'  
 N of SE Cor., SE1/4, Sec. 2,  
 T-27-S, R-2-E.  
 Elev. = 173.23 City Datum

BM #2: "□" Cut at the SE  
 corner of the intersection of  
 Castle Rock & Castle Rock Ct.,  
 Krug North Addition.  
 Elev. = 183.50 City Datum

Construct 1,825 L.F.  
 cut-off trench per  
 detail, this sheet. Cost  
 to be included in "Soil  
 Erosion BMPs".

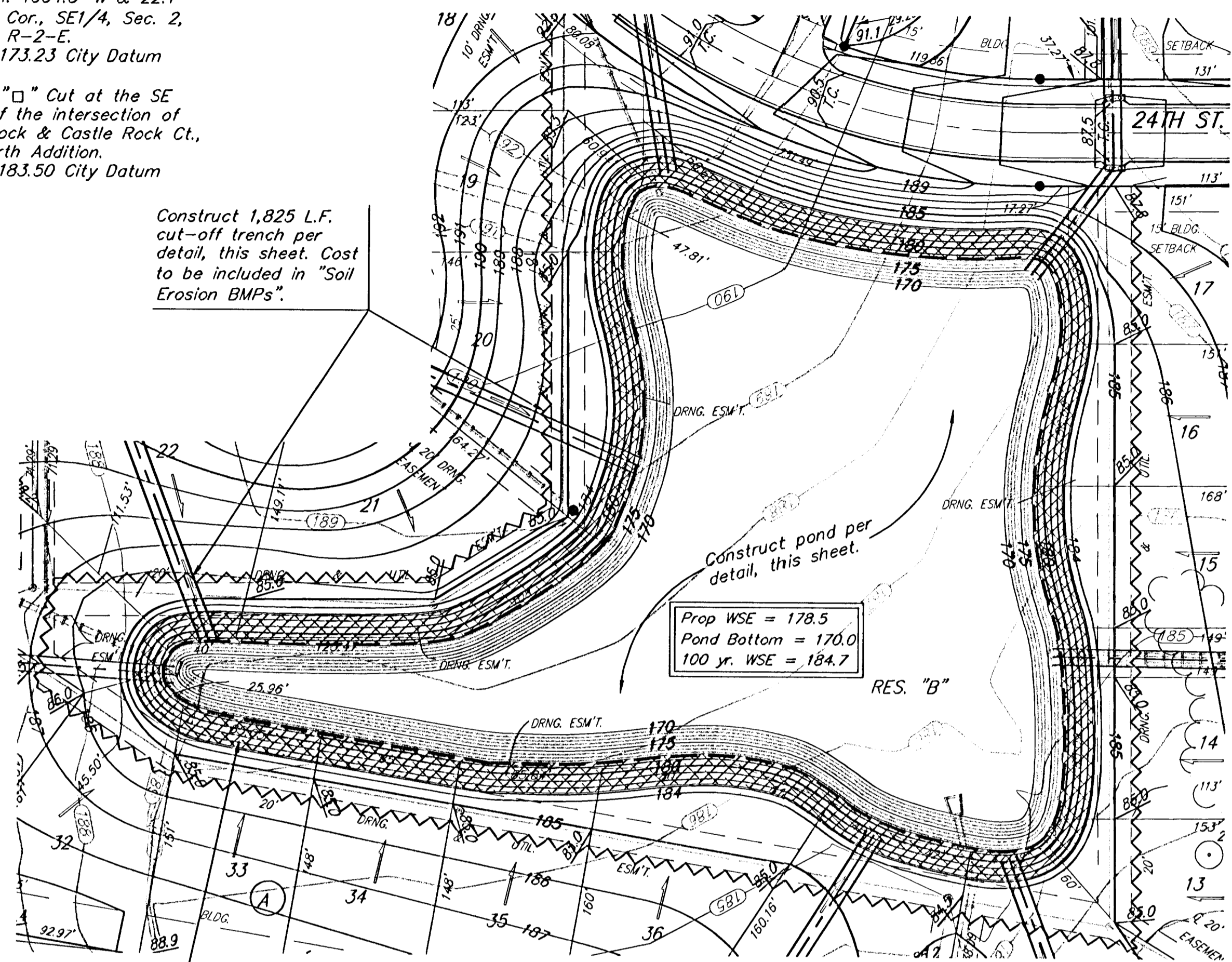
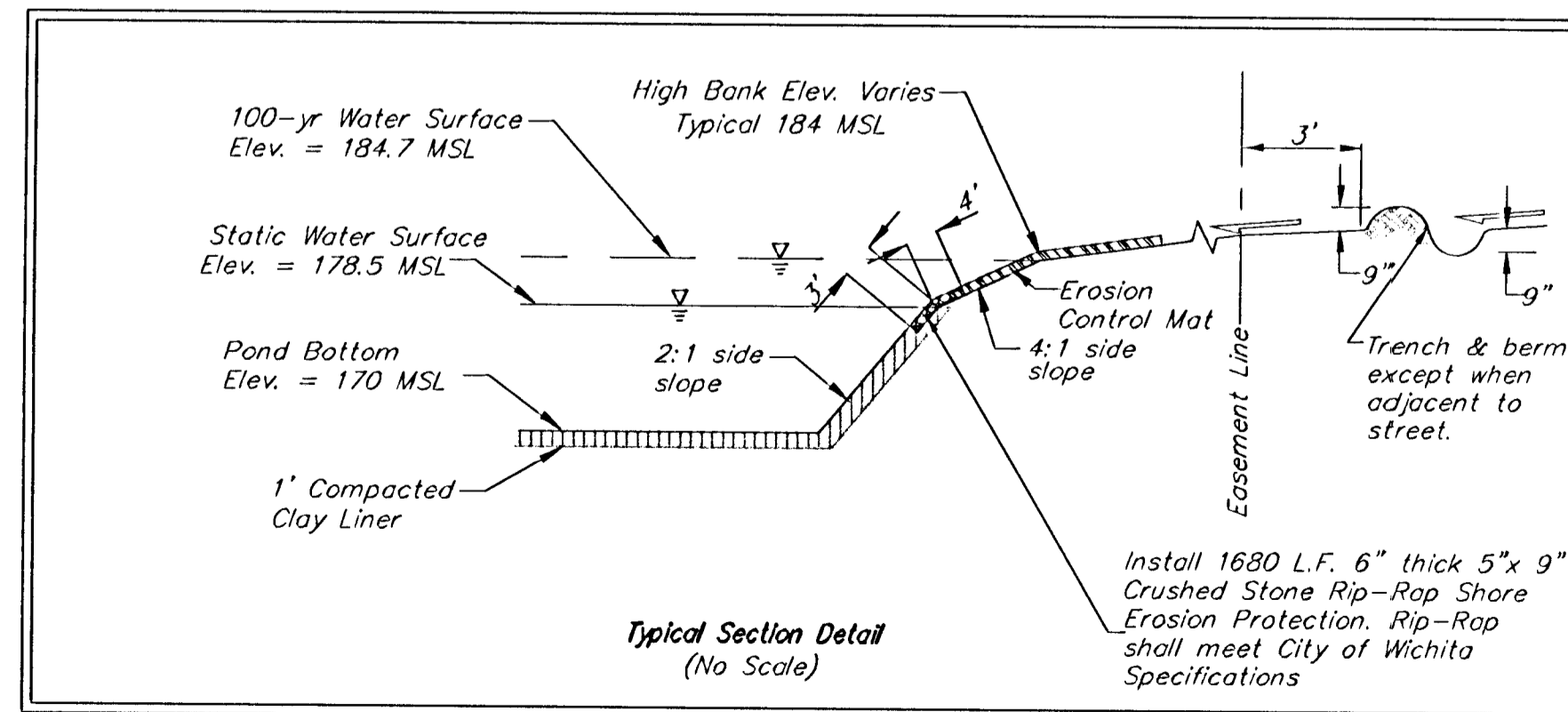
Construct pond per  
 detail, this sheet.  
 Prop WSE = 178.5  
 Pond Bottom = 170.0  
 100 yr. WSE = 184.7

Install 3,455 S.Y. North American  
 Green Erosion Control Mat SC150,  
 or approved equal. Erosion  
 control mat shall be installed  
 and anchored per details, this  
 sheet. Note: This quantity does  
 not include excess material  
 necessary for overlap and  
 anchoring.

**EARTH WORK TOTALS**

	C.Y. Cut	C.Y. Fill
Mass Grading	29,517	104,290
Pond Construction	77,774	198
Total Earthwork	107,291	104,488

Earthwork quantities do not include correction factors and are for reference  
 only. All cost associated with mass grading shall be included in the bid  
 item "Mass Grading".



Scale: 1" = 60'

- Existing Grade
- Proposed Grade
- Cut-off Trench

**EROSION CONTROL PLAN LEGEND**  
 (Installation Details Found in the SWP2 Plan)

- LIGHT STONE RIP-RAP
- DROP INLET PROTECTION
- CURB INLET PROTECTION
- STRAW BALE BARRIERS
- SILT FENCING
- EARTH DIKES

NO SCALE

EROSION CONTROL MEASURE	UNITS	QUANTITY
SILT FENCE	L.F.	3965
RIPRAP	S.Y.	SEE PLAN
DROP INLET BARRIER	EA.	8
CURB INLET BARRIER	EA.	0
STRAW BALE DITCH CHECK	EA.	32
CUT-OFF TRENCH	L.F.	1825
CURLEX	S.Y.	0
POND E.C. BLANKET	S.Y.	3455
Construction Entrance	EA.	1

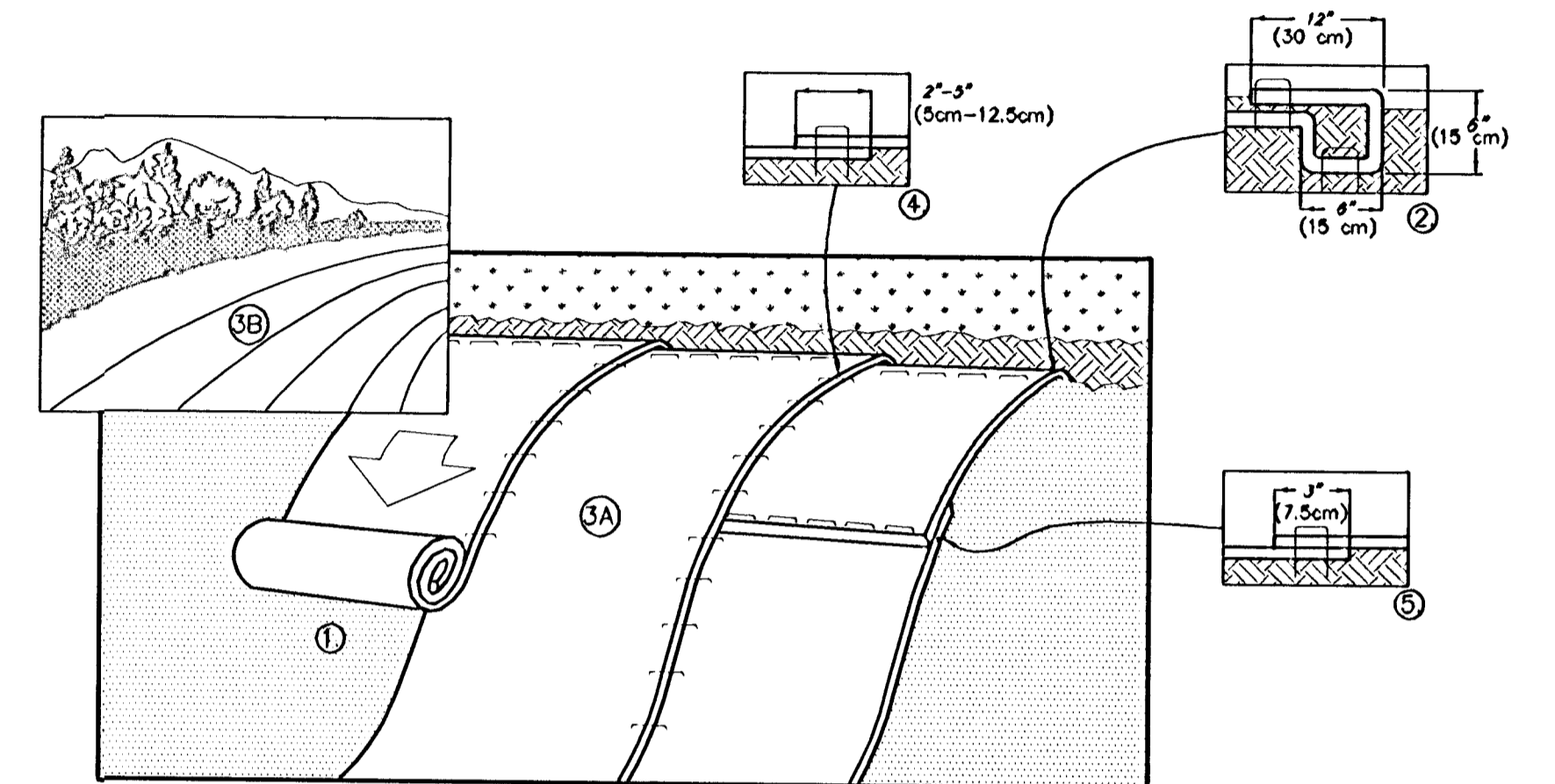
QUANTITIES ARE FOR INFORMATION ONLY!

**NOTES:**

- Pond bottom and sideslopes below static pool elevation shall be over-excavated 1' and a 1' clay liner shall be compacted to 95% std. density. The material that is to be used shall be Wyoming Bentonite Clay and the plasticity index (P.I.) shall be at least 30. The compaction and P.I. shall be verified during construction. P.I. determination and compaction testing shall be arranged by the contractor at the request of the inspector. Cost shall be incidental to "Site Clearing & Restoration". Cost of over-excavation to install Clay Liner shall be incidental to bid item, "Excavation."
- Any excess excavation shall be stockpiled on-site at an area indicated by the Engineer out of easements and R/W. Area will be staked by Engineer.
- All of Reserve "B" above the static water surface shall be seeded and mulched as follows: (Permanent Seeding)  
 SEED -- Kansas Premium Fescue Blend; 8#/1000 Sq. Ft.  
 FERTILIZER -- 12-24-12 Ratio at 350 Lbs./Ac.  
 MULCH -- 2 Tons Prairie Hay / Acre  
 All other disturbed areas not in street R/W are to be seeded as follows: (Temporary seeding)  
 SEED -- Rye grass (PLS)--5#/1000 Sq. Ft. and  
 Kansas Premium Fescue Blend; 5#/1000 Sq. Ft.
- Install Erosion Control Mat from 1' below the water surface to 18' up the bank.
- Contractor to strip top 3" of soil within Res. "B" and street R/W before mass grading and stockpile. Top soil stockpile to be redistributed over Reserve "B" above water elevation prior to seeding.
- Compaction of 95% shall be obtained in all street R/W's, 90% in all other areas.

BL Sta 0+00  
 = PT in CL of N. Springdale Dr.

**SLOPE INSTALLATION**



- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
- CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:  
 \*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

14649 HIGHWAY 41 NORTH, EVANSVILLE, INDIANA 47725  
 USA 1-800-772-2040 CANADA 1-800-448-2040  
 www.nagreen.com

**STAPLE PATTERN "D"**

3-1/2 staples per sq. yd.  
 using 6-inch, 11 ga. wire  
 "U" staples, 8-inch staples  
 and longer may be used for  
 loose soils. 9 ga. staples  
 or heavier may be necessary  
 in hard or rocky soils.

Contractor shall follow manufac-  
 turers installation instructions  
 regarding overlap dimensions.  
 The overlap shall have a minimum  
 dimension of three inches (3").

Erosion control mat.

**STAPLE PATTERN**



Remove trees only as necessary  
 for construction and only with  
 permission of Developer or  
 Baughman Co. Cost of removal  
 to be incidental to lump sum  
 bid item "Site Clearing &  
 Restoration".

	<b>POND PLAN</b> WICHITA, KANSAS	
	KRUG NORTH 2ND/KRUG NORTH ADD. - PH. II	
Baughman Company, P.A. 315 E. 11th St. Wichita, KS 67211 F 316-262-7271 F 316-262-0149 ENGINEERING   SURVEYING   PLANNING   LANDSCAPE ARCHITECTURE		
PROJECT NUMBER 46883793	DESIGN TMS	DRAWN TMS
REVISIONS	APPROVED DATE 07/05	SCALE Noted
		SHEET <b>5 OF 28</b>
KrugNorth2ndPhase1Pond		05-04-E228