

DETENTION POND PLANS FOR SELTZER ELEMENTARY (USD 259) & WOODLAND LAKES COMMUNITY CHURCH

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, CITY ENGINEER

OCA NO. 607861
USER CODE 1114 PPS

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERLY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.

2. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.

3. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL 1-800-344-7233

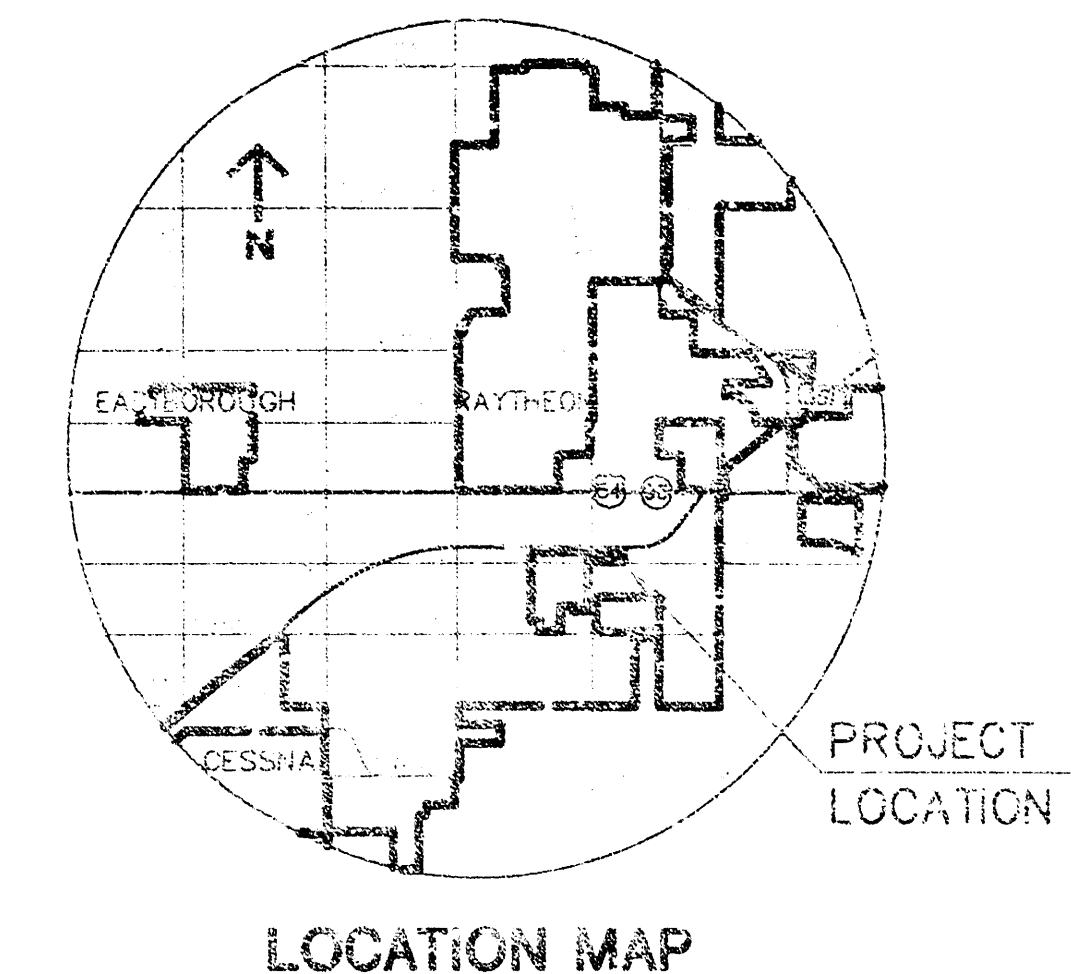
THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

CABLEVISION 263-2091
ARKLA GAS COMPANY 263-7511
KANSAS GAS & ELECTRIC 264-1141
SOUTHWEST BELL TELEPHONE COMPANY 1-571-2611
CITY OF WICHITA WATER & SEWER MAINT. 282-6500

4. UNLESS SHOWN OR STATED OTHERWISE ON THESE DRAWINGS, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WICHITA SPECIFICATIONS.

5. EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

6. SITE RESTORATION AND PREPARATION SHALL BE SUBSIDIARY TO THE PROJECT.



APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

DRAIN
STORM SEWERS URH 5/11/01

NOTE TO CONTRACTOR

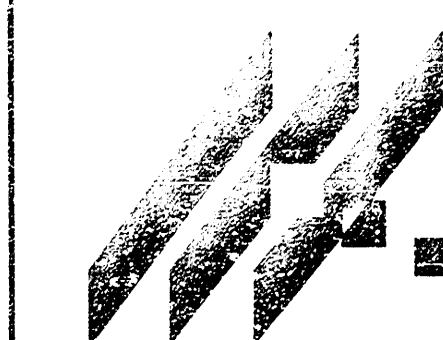
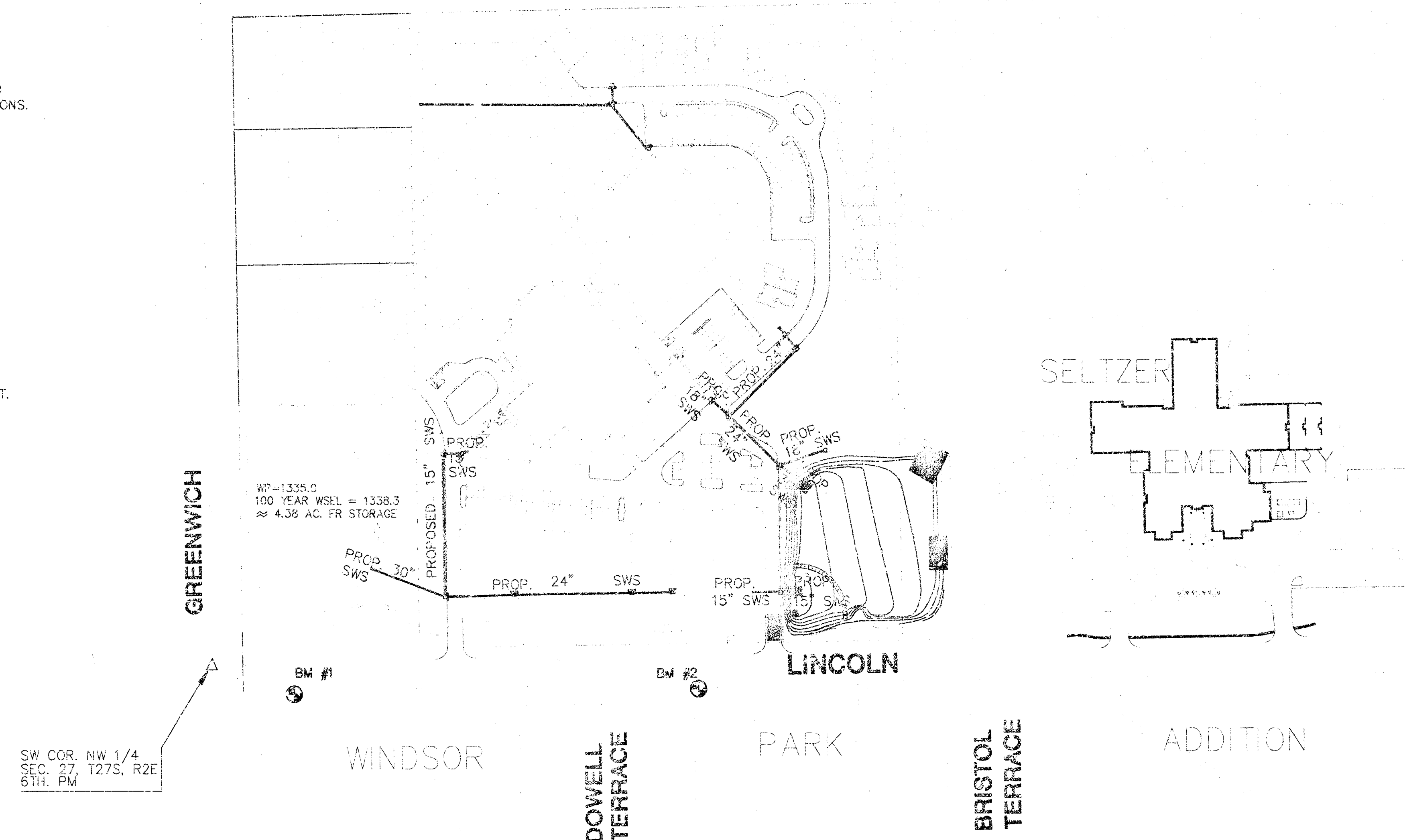
INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR THE PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	DETENTION POND PLAN
3	EROSION CONTROL DETAILS

BENCH MARKS

BM #1	RAILROAD SPIKE IN 2ND. POWER POLE EAST OF GREENWICH ROAD AND SOUTH OF LINCOLN. ELEV.=1336.39
BM #2	RAILROAD SPIKE IN 1ST. POWER POLE EAST OF DOWELL AND SOUTH OF LINCOLN. ELEV.=1340.16
BM #3	C.O.W. BENCH MARK NORTHWEST CORNER OF DOUBLE 4'x6' (1.219m X 1.829m) RCBC, ON HUBGUARD, IN FRONT OF 930 S. GREENWICH, 250' (76.2m) SOUTH OF LINCOLN. ELEV.=1334.02



ENGINEERING CONSULTANTS
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

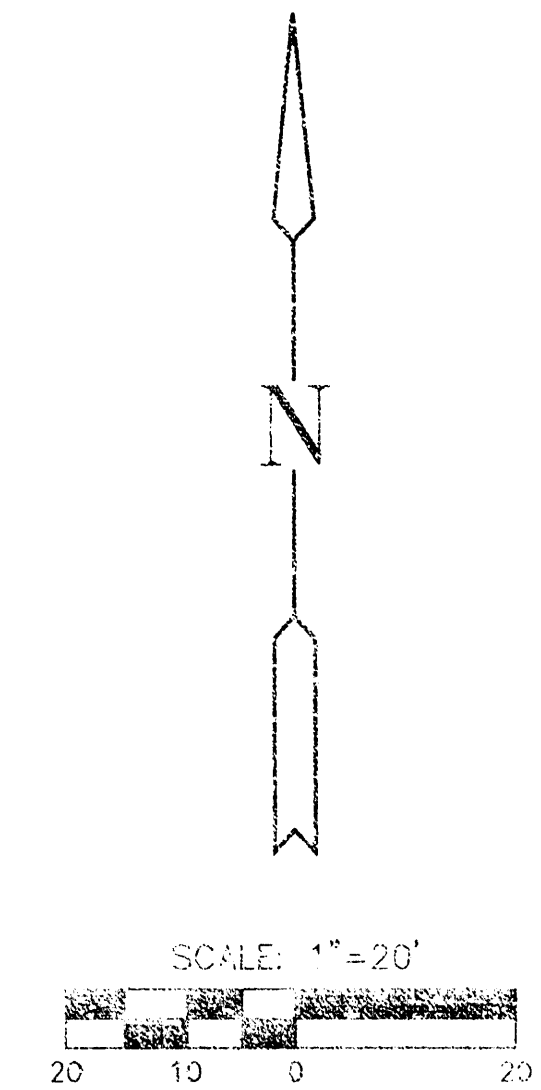
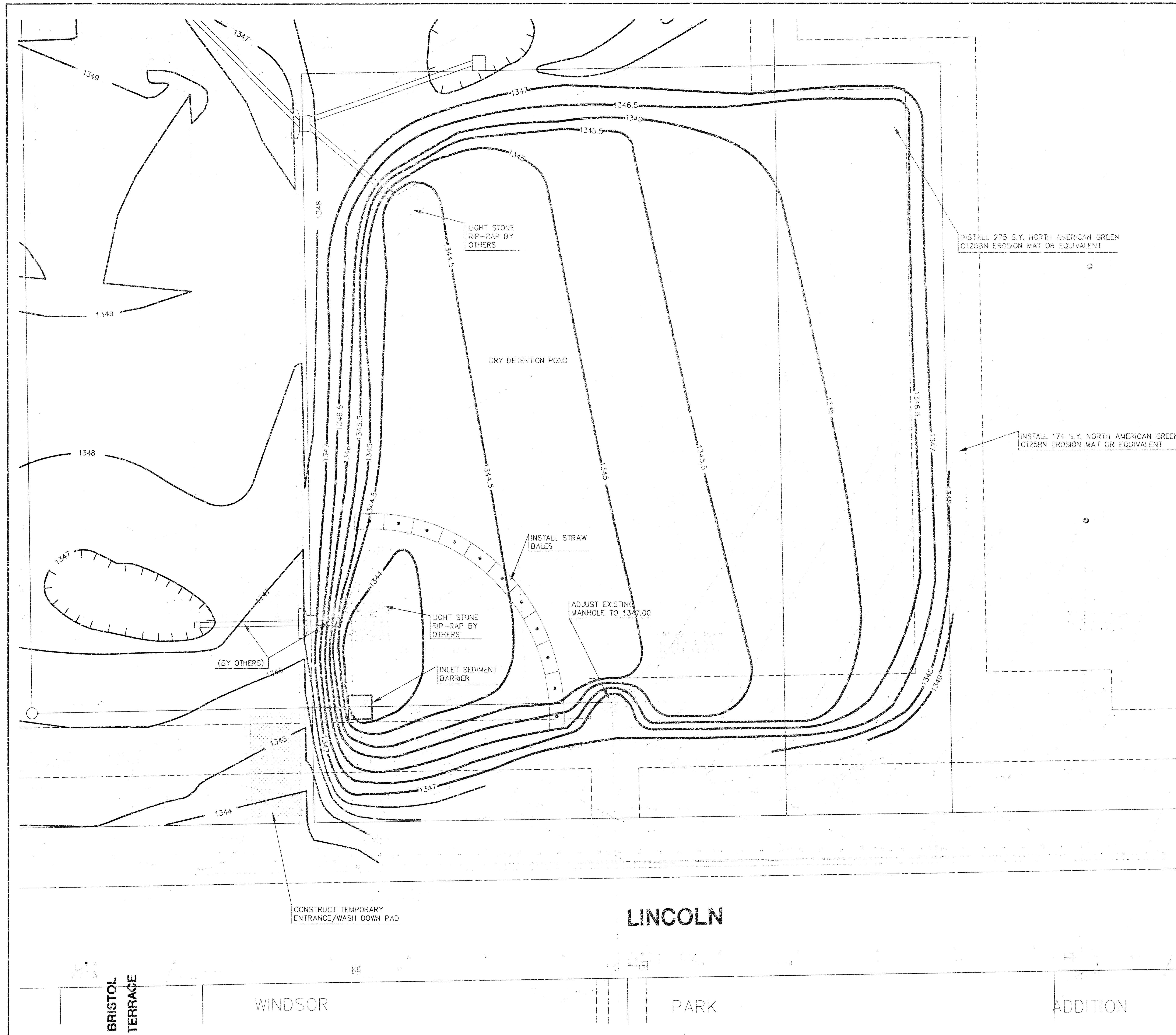
WOODLAND LAKES COMMUNITY CHURCH
PROJECT NAME

TITLE SHEET
SHEET TITLE

ASH	DM	ASH
DESIGN BY:	DRAWN BY:	CHECKED BY:
APRIL 2001	DET-CVR	1 / 3
DATE	DRAWING NAME	SHEET / OF

12 14 01

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LEGEND

-  = STRAW BALE
-  = INLET SEDIMENT BARRIER

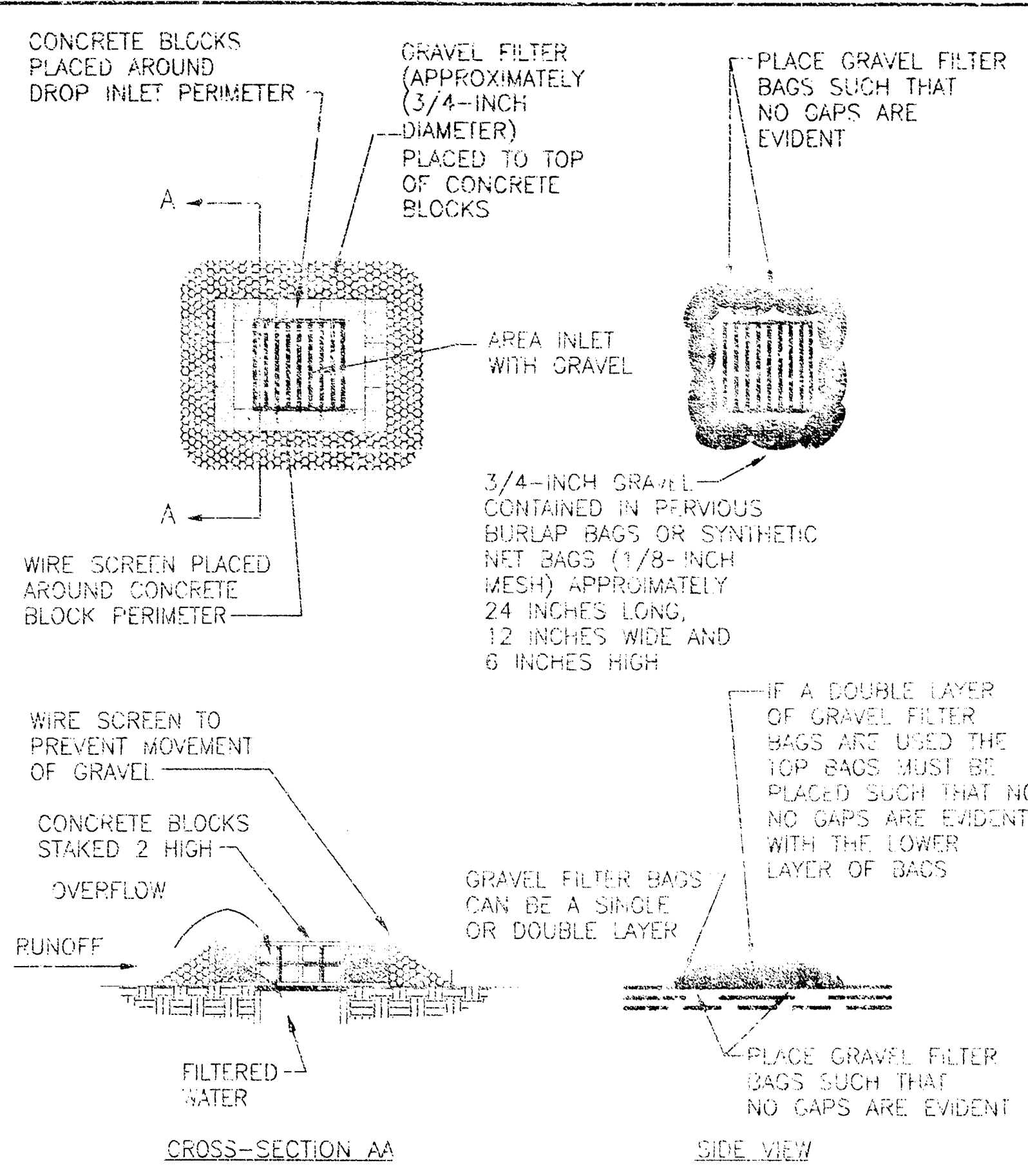


ENGINEERING CONSULTANTS
411 N. WEBB ROAD
WICHITA, KS. 67206
316.694-9600

WOODLAND LAKES COMMUNITY CHURCH
PROJECT NAME

GRADING - DETENTION POND
SHEET TITLE

ASH	DM	ASH
DESIGN BY:	DRAWN BY:	CHECKED BY:
APRIL 2001	DET POND	2 / 3
DATE	DRAWING NAME	SHEET / OF



GRAVEL FILTERS FOR AREA INLETS

ALL STORM DRAINAGE SYSTEM INLETS SHOULD HAVE FILTERS INSTALLED TO TREAT RUNOFF BEFORE WATER IS DISCHARGED INTO A STREAM.

GRAVEL FILTERS WILL BE CONSTRUCTED WITH A COMBINATION OF CONCRETE BLOCKS, 1/2-INCH WIRE SCREEN AND COARSE (APPROX. 3/4-INCH DIAMETER) GRAVEL. USE OF GRAVEL SMALLER THAN 3/4-INCHES MAY RESULT IN CLOGGING OF PORES AND REDUCE THE AMOUNT OF WATER FLOWING INTO AN INLET.

GRAVEL FILTERS CAN BE USED IF THE IMMEDIATE AND ADJACENT AREA TO THE DRAIN CONSISTS OF SOIL OR PAVEMENT.

LAY ONE BLOCK ON EACH SIDE OF THE DRAINAGE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW FOR POOL DRAINAGE. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE REST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF BLOCKS AGAINST THE EDGE OF STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. PROVIDE ADDITIONAL SUPPORT BY PLACING 2"x4"x16" WOOD STAKES THROUGH BLOCK OPENINGS. CAREFULLY FIT WIRE MESH OVER ALL BLOCK OPENINGS TO RETAIN GRAVEL. USE CLEAN GRAVEL, 3/4" TO 1 1/2" IN DIAMETER, PLACED 2 INCHES BELOW TOP OF BLOCKS ON A 2:1 SLOPE OR FLATTER AND SMOOTH TO EVEN GRADE.

ALL GRAVEL FILTERS INSTALLED AROUND AREA DRAINS SHOULD BE INSPECTED AND REPAIRED AFTER EACH RUNOFF EVENT. SEDIMENT SHOULD BE REMOVED WHEN MATERIAL IS WITHIN TWO INCHES OF THE TOP OF THE FILTER. PERIODICALLY, THE GRAVEL SHOULD BE RAKED TO INCREASE INFILTRATION AND FILTERING OF RUNOFF WATER.

SEDIMENT SHOULD BE REMOVED IMMEDIATELY FROM ANY TRAVELED WAY OF ROADS AND STREETS.

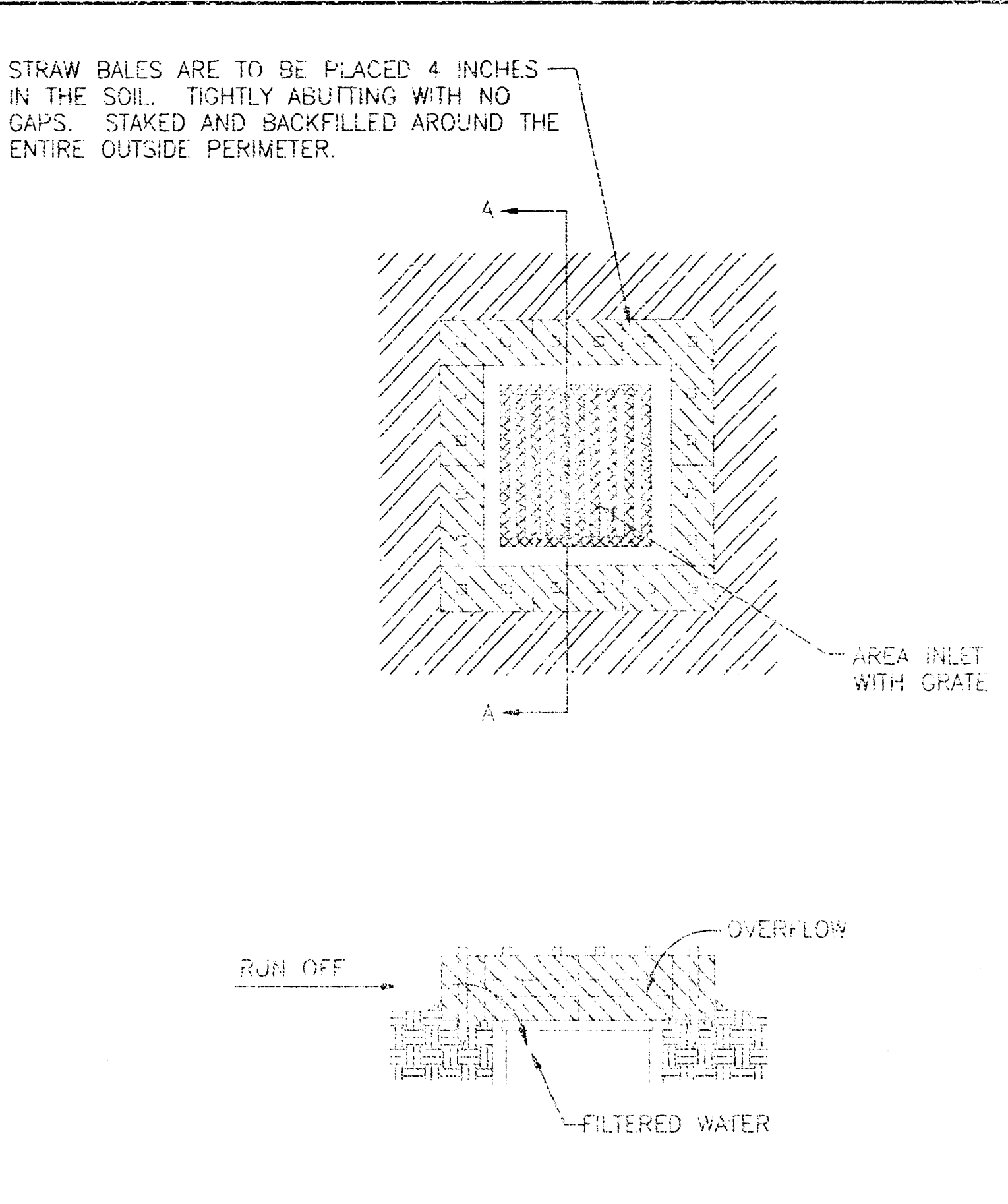
CONCRETE BLOCK FILTER GRAVEL FILTER BAGS

ALTERNATES FOR STRAW BALES

NOTE: GRAVEL FILTERS MAY BE USED ON PAVEMENT OR BARE GROUND

GRAVEL FILTER FOR AREA/DROP INLET

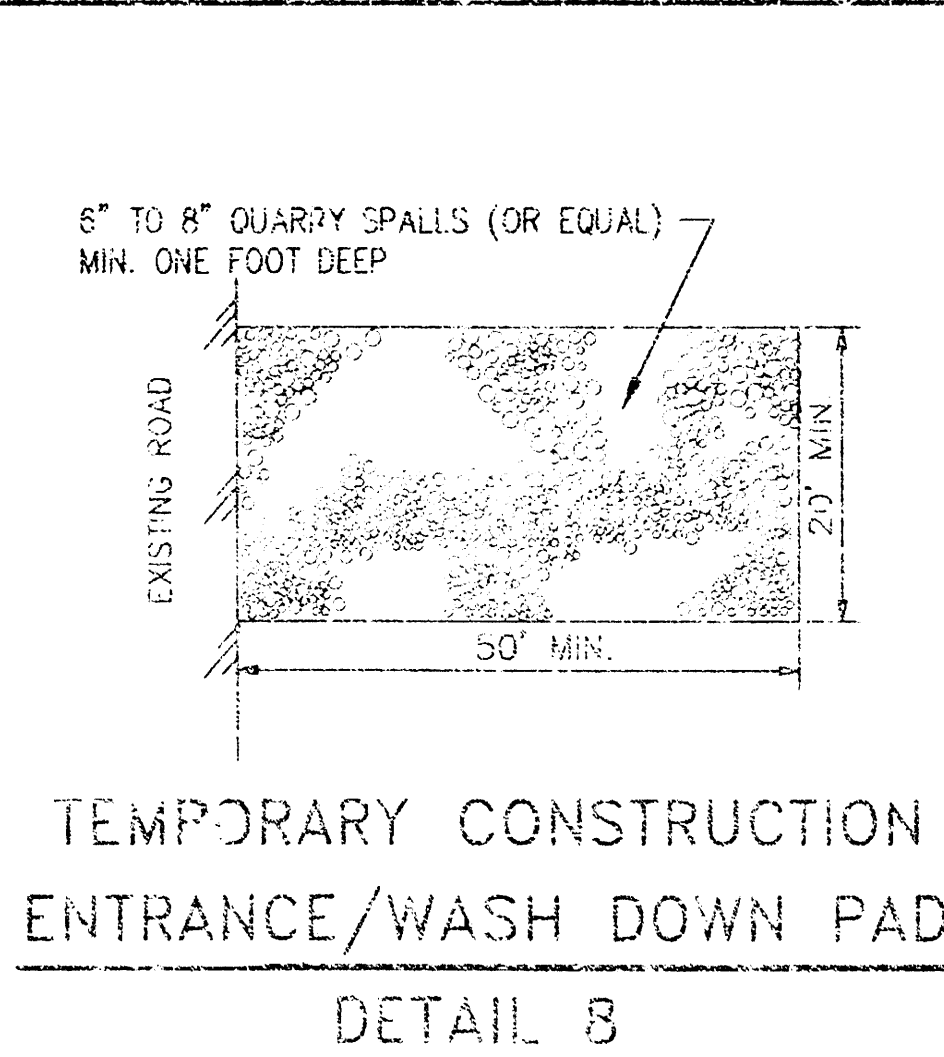
DETAIL 2



NOTE: STRAW BALE FILTERS ARE NOT TO BE USED IF ADJACENT AREA TO INLET IS PAVED. SEE DETAIL 2 FOR FILTERS ON PAVED AREA

STRAW BALE FILTER FOR AREA/DROP INLET

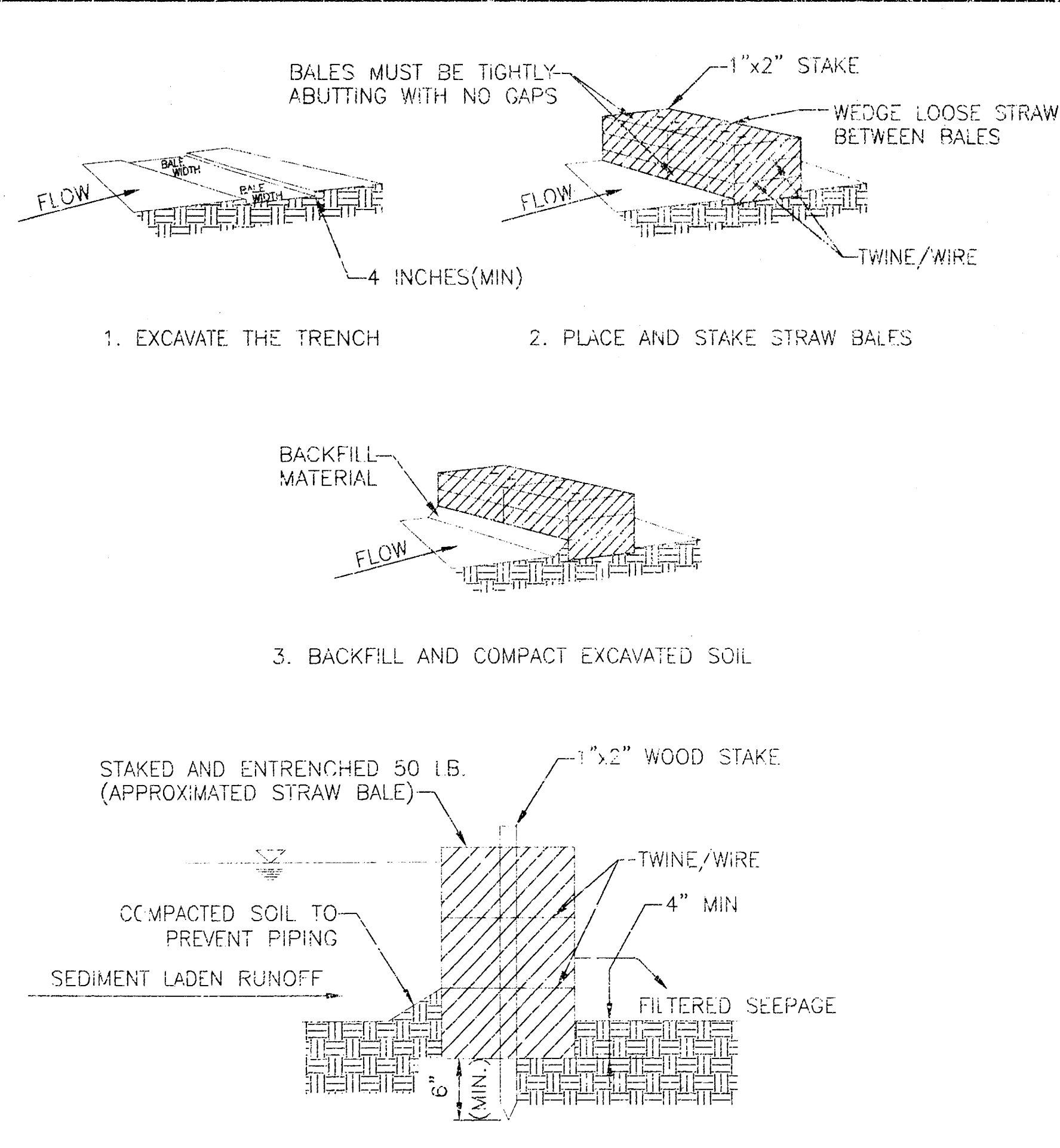
DETAIL 7



EROSION AND SEDIMENT CONTROL NOTES:

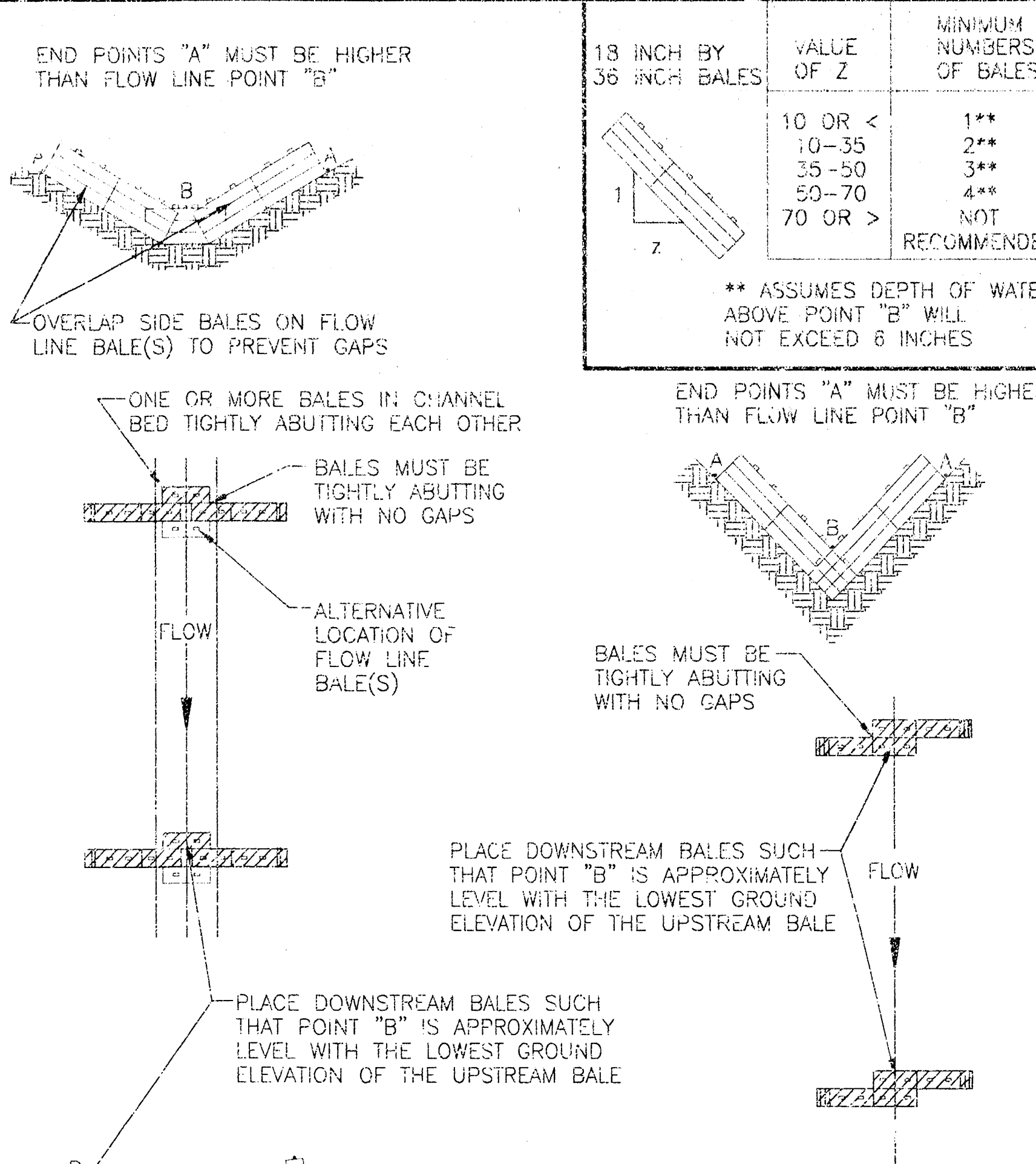
1. TEMPORARY STABILIZATION - TOPSOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 28 DAYS WILL BE STABILIZED WITH TEMPORARY SEED AND MULCH NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED SHALL BE RYE (GRAIN) APPLIED AT THE RATE OF 160 POUNDS PER ACRE. AFTER SEEDING, EACH AREA SHALL BE MULCHED STRAW. THE STRAW MULCH IS TO BE TACKED INTO PLACE BY A DISK WITH BLADES SET NEARLY STRAIGHT.

2. PERMANENT STABILIZATION - DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASES SHALL BE STABILIZED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.



STRAW BALE DIKES FOR DRAINAGE CHANNELS

DETAIL 5



STRAW BALE DIKES FOR DRAINAGE CHANNELS

DETAIL 6

18 INCH BY 36 INCH BALES	VALUE OF Z	MINIMUM NUMBERS OF BALES
	10 OR <	1**
	10-35	2**
	35-50	3**
	50-70	4**
	70 OR >	NOT RECOMMENDED

** ASSUMES DEPTH OF WATER ABOVE POINT "B" WILL NOT EXCEED 6 INCHES

MKEC
ENGINEERING CONSULTANTS
411 N. WEBB ROAD
WICHITA, KS. 67206
316-664-9600

WOODLAND LAKES COMMUNITY CHURCH
PROJECT NAME

EROSION/SEDIMENT CONTROL DETAILS
SHEET TITLE

JTC
DESIGN BY:

DAC
DRAWN BY:

JTC
CHECKED BY:

APRIL 2001
DATE

ERO-DTL
DRAWING NAME

3 / 3
SHEET / OF