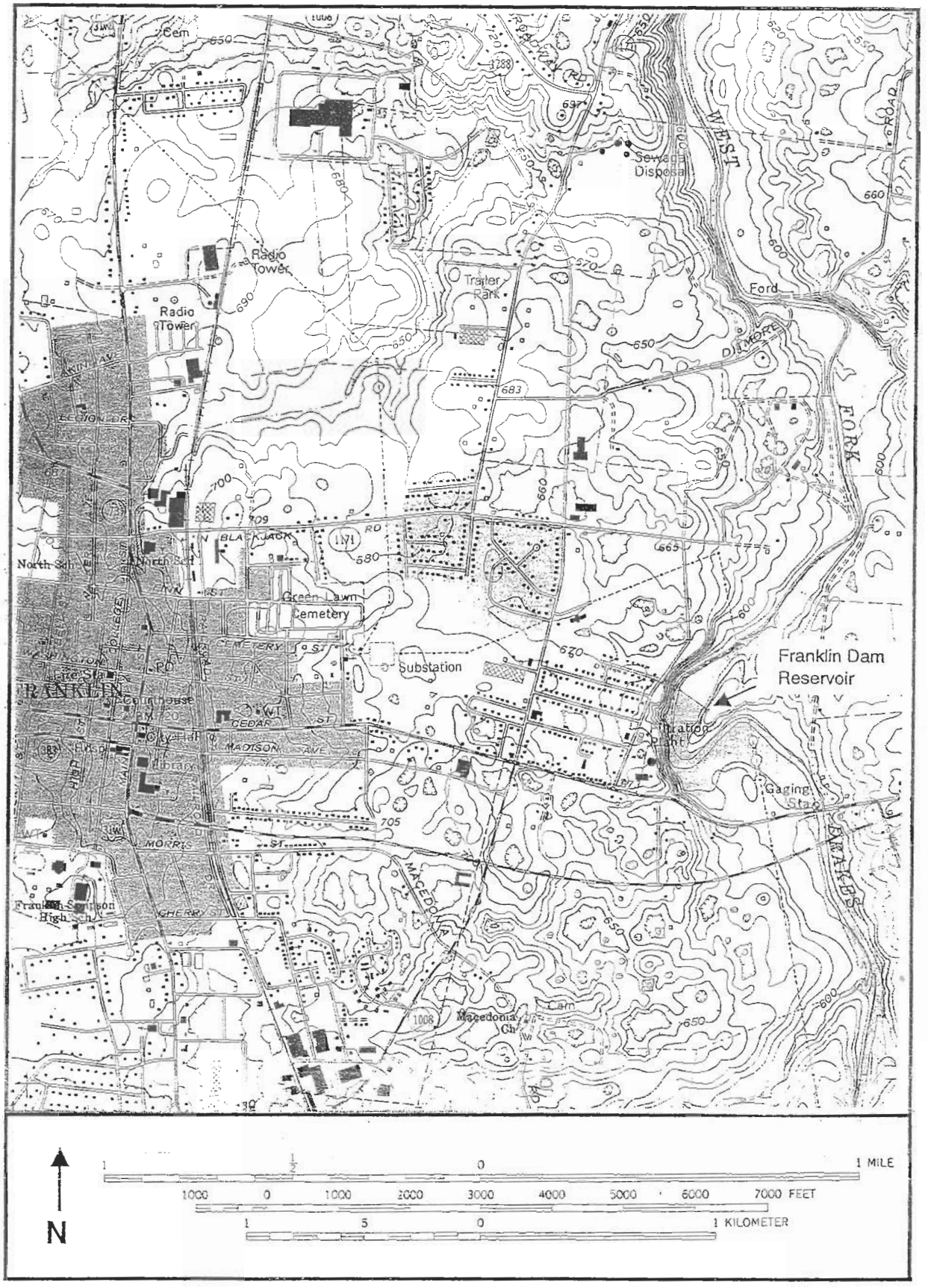
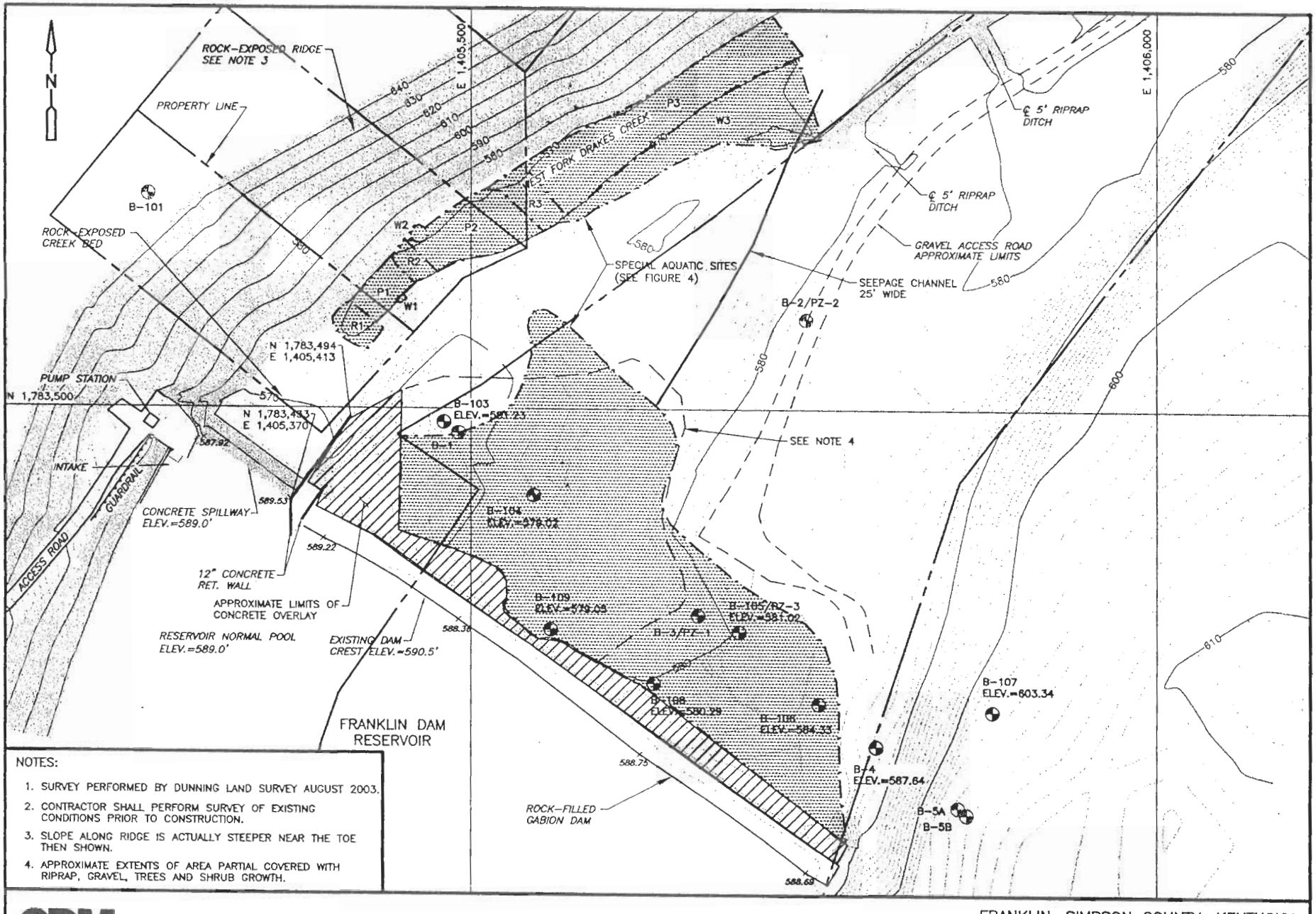


PUBLIC NOTICE NO. 200400070 sheet 1 of 11

CDM

Figure 2-1
Site Location Map



NOTES:

1. SURVEY PERFORMED BY DUNNING LAND SURVEY AUGUST 2003.
2. CONTRACTOR SHALL PERFORM SURVEY OF EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
3. SLOPE ALONG RIDGE IS ACTUALLY STEEPER NEAR THE TOE THEN SHOWN.
4. APPROXIMATE EXTENTS OF AREA PARTIAL COVERED WITH RIPRAP, GRAVEL, TREES AND SHRUB GROWTH.

CDM Camp Dresser & McKee Inc.

consulting engineering construction operations

5400 Glenwood Avenue
Suite 300
Raleigh, NC 67612
Tel. (919) 787-5620

1" = 100'

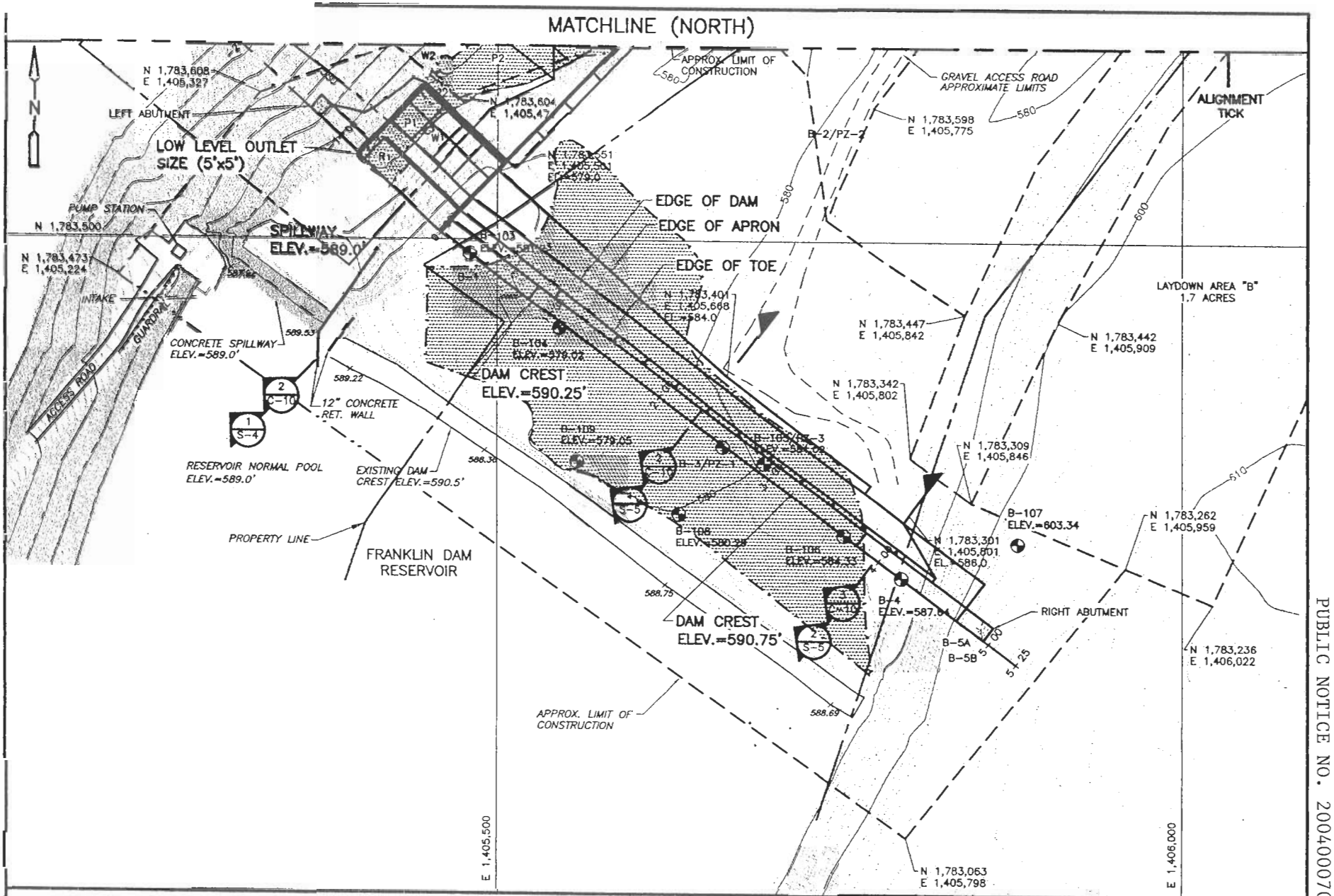
50 0 100

FRANKLIN, SIMPSON COUNTY, KENTUCKY

FRANKLIN DAM EXISTING CONDITIONS PLAN SHEET C-2

Figure No. 1

PUBLIC NOTICE NO. 200400070 sheet 2 of 11



CDM Camp Dresser & McKee Inc.

consulting engineering construction operations

5400 Glenwood Avenue
Suite 300
Raleigh, NC 67612
Tel. (919) 787-5620

1" = 100'

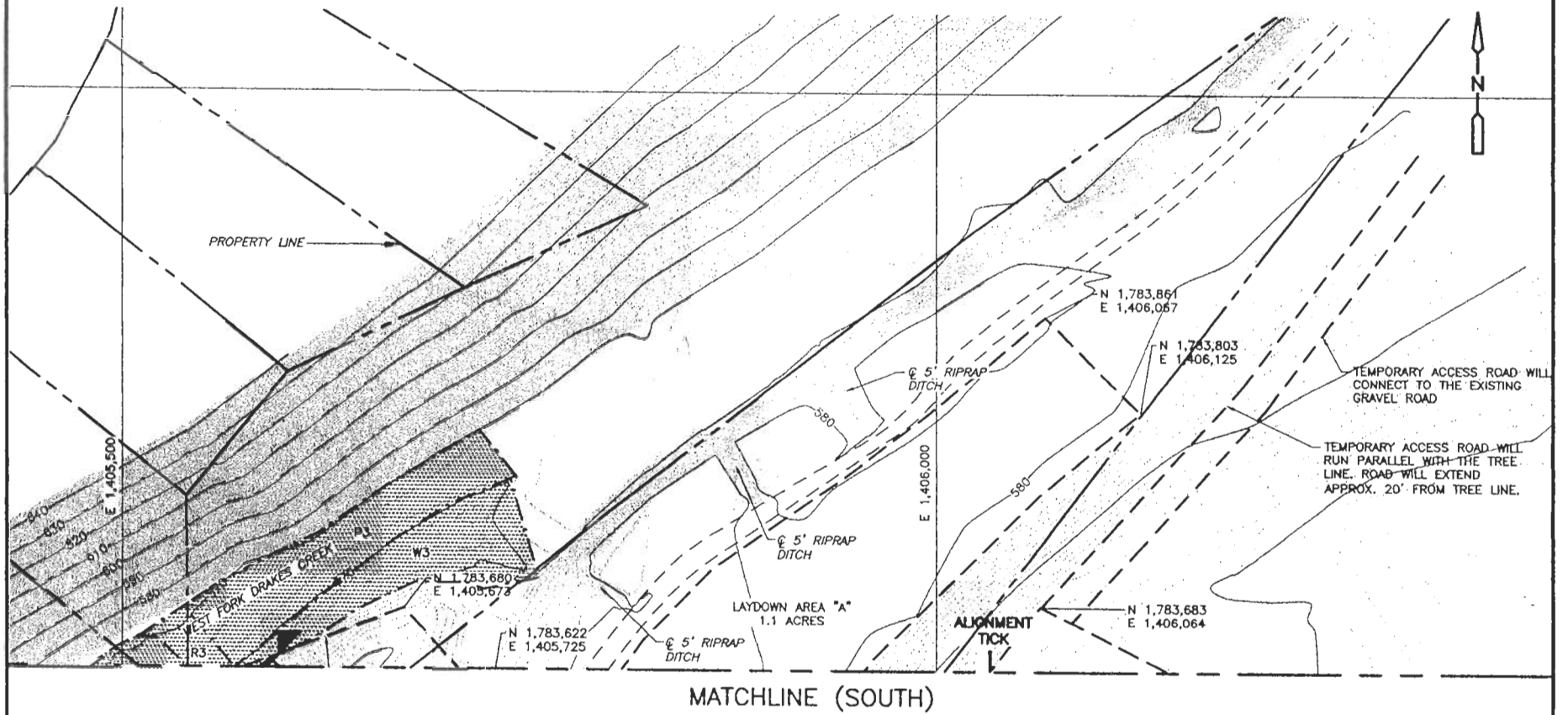
50 0 100

FRANKLIN, SIMPSON COUNTY, KENTUCKY

FRANKLIN DAM
PROPOSED CONDITIONS PLAN (SOUTH)
SHEET C-1

Figure No. 2

PUBLIC NOTICE NO. 200400070 sheet 3 of 1



CDM Camp Dresser & McKee Inc.

consulting engineering construction operations

5400 Glenwood Avenue
Suite 300
Raleigh, NC 67612
Tel. (919) 787-5620

1" = 100'

50 0 100

FRANKLIN, SIMPSON COUNTY, KENTUCKY

FRANKLIN DAM
PROPOSED CONDITIONS PLAN (NORTH)
SHEET C-1

Figure No. 3

PUBLIC NOTICE NO. 20040070 sheet 4 of 1

LEGEND:

R1	RIFFLE LOCATION
W1	WETLAND LOCATION
P1	POOL LOCATION
- - -	AQUATIC BOUNDRIES

CDM Camp Dresser & McKee Inc.

consulting engineering construction operations

5400 Glenwood Avenue
Suite 300
Raleigh, NC 67612
Tel. (919) 787-5620

1" = 100'

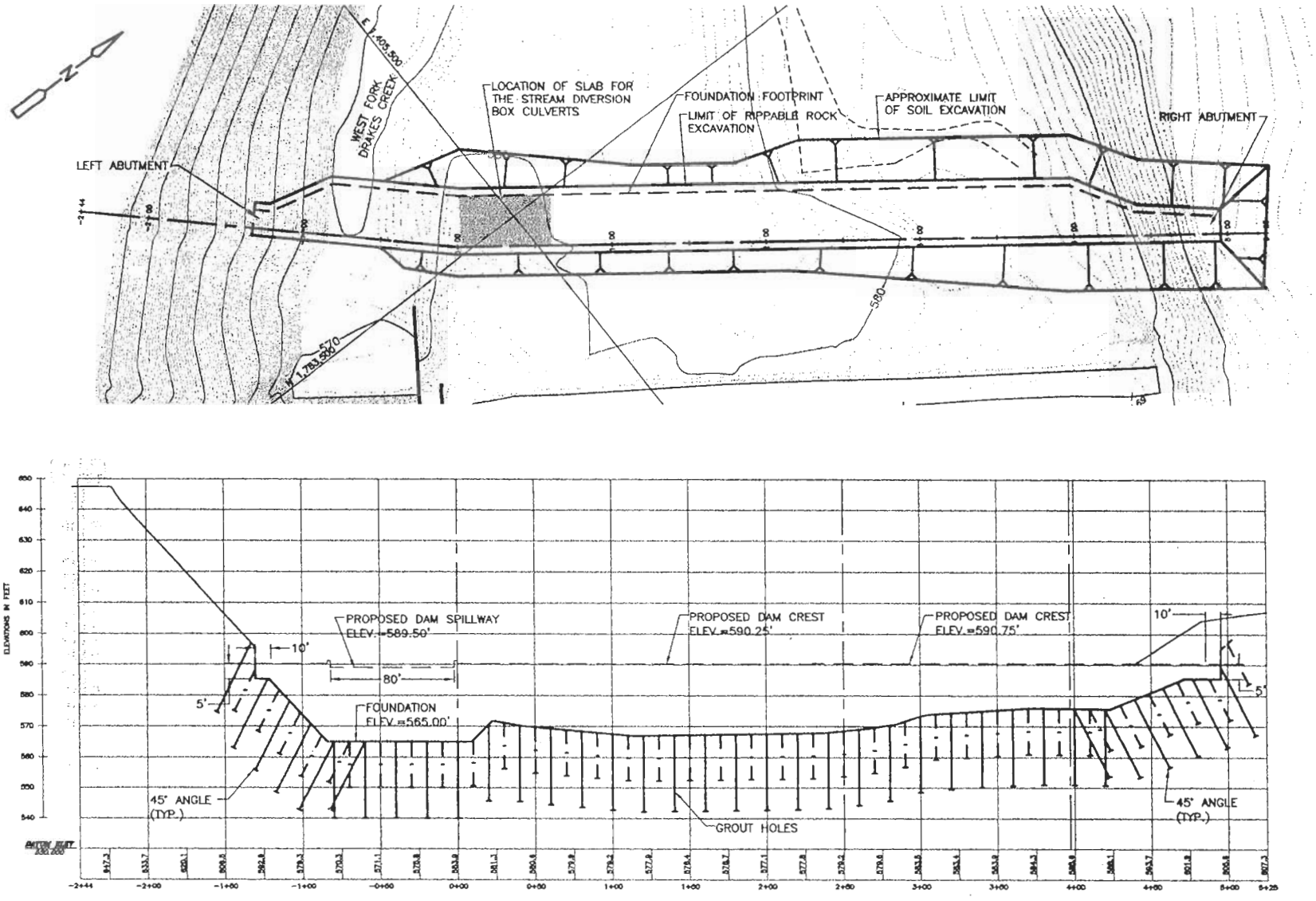
50 0 100

FRANKLIN, SIMPSON COUNTY, KENTUCKY

FRANKLIN DAM
SPECIAL AQUATIC SITES

Figure No. 4

PUBLIC NOTICE NO. 200400070 sheet 5 of 11



CDM Camp Dresser & McKee Inc.

consulting engineering construction operations

5400 Glenwood Avenue
Suite 300
Raleigh, NC 67612
Tel. (919) 787-5620

1" = 100'

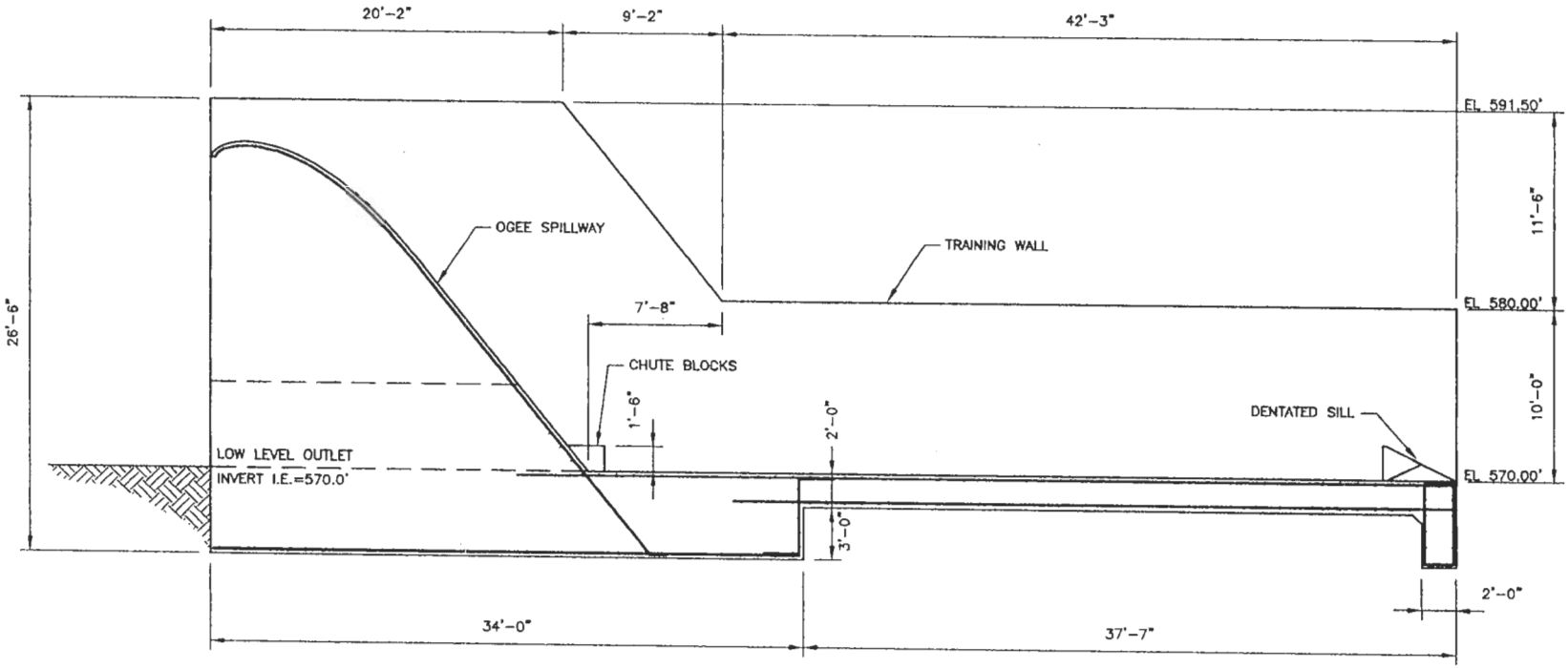
50 0 100

FRANKLIN, SIMPSON COUNTY, KENTUCKY

FRANKLIN DAM
EXCAVATION AND DAM FOUNDATION
SHEET C-7

Figure No. 5

PUBLIC NOTICE NO. 200400070 sheet 6 of 11



OGEE SPILLWAY SECTION

SECTION 1
3/32"=1'-0"

CDM Camp Dresser & McKee Inc.

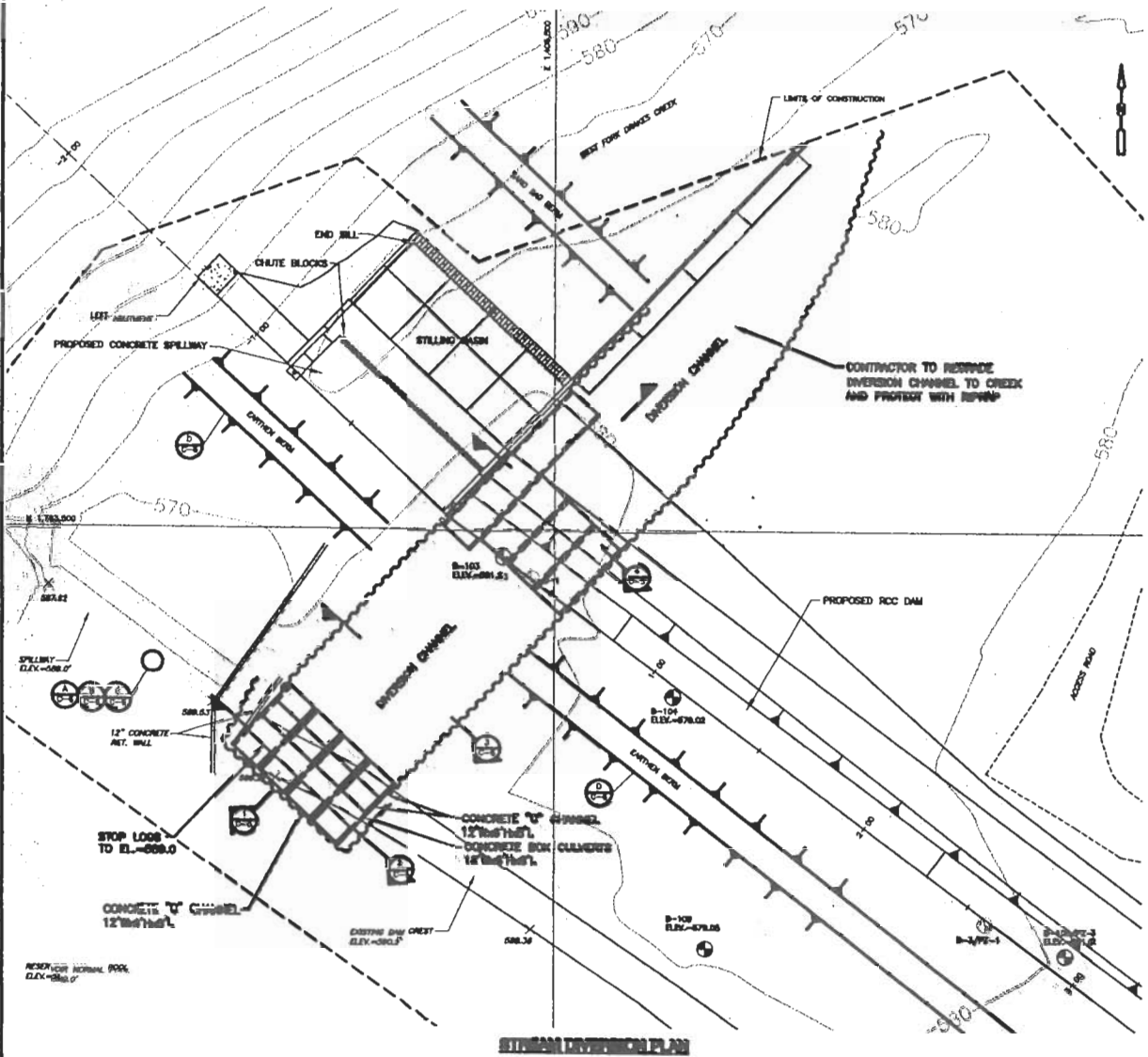
consulting engineering construction operations
5400 Glenwood Avenue
Suite 300
Raleigh, NC 67612
Tel. (919) 787-5620

FRANKLIN, SIMPSON COUNTY, KENTUCKY

FRANKLIN DAM
OGEE SPILLWAY SECTION
SHEET S-3

Figure No. 6

PUBLIC NOTICE NO. 200400070 sheet 7 of 11



STREAM DIVERSION PLAN

CONSTRUCTION SEQUENCE

THE FOLLOWING STREAM DIVERSION PLAN WAS DEVELOPED TO DEPICT ONE LOGICAL SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A STREAM DIVERSION PLAN AND ASSOCIATED EROSION AND SEDIMENT CONTROL PLAN FOR THE CONTRACTOR'S PROPOSED WORK PLAN. SEE SPECIFICATIONS FOR DIVERSION REQUIREMENTS.

STAGE 1 STREAM DIVERSION

1. COFFERDAM AREA AROUND THE AREA OF THE PROPOSED CULVERTS AT THE PROPOSED DAM LOCATION.
2. EXCAVATE TO SOUND BEDROCK WITHIN THE COFFERDAM AREA AT APPROX. STATIONS 0+00 TO 0+60.
3. PERFORM BEDROCK TREATMENT AND GROUT IN ACCORDANCE WITH SPECIFICATIONS. SEE DRAWING C-10 FOR DETAILS.
4. PLACE MASS CONCRETE WITHIN THE COFFERDAM AREA TO EL. 579.
5. INSTALL 4 - 8'x12' BOX CULVERTS WITHIN THE COFFERDAM AREA.
6. INSTALL SHEETING IN THE RESERVOIR FROM THE RIGHT TRAINING WALL OF THE EXISTING SPILLWAY TO APPROX. 60' ALONG THE UPSTREAM FACING OF THE EXISTING DAM TO FORM A COFFERDAM AS SHOWN ON DRAWING.
7. REMOVE GABIONS TO ELEVATION 583.0' AND INSTALL CONCRETE CHANNELS WITH STOP LOGS AND CONCRETE BOX CULVERTS WITHIN COFFERDAM AREA. SEE DRAWING C-6 FOR DETAILS.
8. DRIVE SHEETING TO FORM DIVERSION CHANNEL AND EXCAVATE AND GRADE EXISTING SOIL BETWEEN THE CULVERTS AT THE EXISTING AND PROPOSED DAM LOCATION. PROTECT CHANNEL BOTTOM WITH RIPRAP AS SHOWN IN DETAIL ON SECTION A-A' ON SHEET C-6.
10. BURN OFF SHEETING AT UPSTREAM END OF CONCRETE CHANNEL.

STAGE 2 STREAM DIVERSION

1. REMOVE STOP LOGS TO EL. 586 AND DIVERT FLOW THROUGH CULVERTS.
2. BERM STREAM CHANNEL DOWNSTREAM OF NEW SPILLWAY LOCATION AS SHOWN ON DRAWINGS C-6.
3. CONSTRUCT EARTH BERM TO DIVERT SEEPAGE FLOW TO CHANNEL. SEE DRAWING FOR DETAILS.
4. INSTALL FLASHBOARDS ON EXISTING SPILLWAY TO EL. 590.5.
5. EXCAVATE SOIL AND ROCK FOR THE PROPOSED SPILLWAY LOCATION.
6. CONSTRUCT THE PROPOSED SPILLWAY AND LOW LEVEL OUTLET.
7. EXCAVATE THE PROPOSED DAM ALIGNMENT FOR THE RCC INSTALLATION.
8. GROUT SUBGRADE IN PREPARATION FOR THE FOUNDATION OF THE RCC DAM.
9. CONSTRUCT THE RCC DAM, FROM STA:0+80 TO STA:5+00

STAGE 3 STREAM DIVERSION

1. COMPLETELY REMOVE THE STOP LOGS IN THE CULVERT BOXES.
2. LINE DRILL AND REMOVE THE UPPER PORTION OF THE EXISTING SPILLWAY TO EL. 583.5 AS SHOWN IN DETAIL ON DRAWING C-6.
3. INSTALL FLASHBOARDS TO EL. 586 ON THE CUTOFF EXISTING SPILLWAY.
4. REMOVE BERM DOWNSTREAM OF THE NEW SPILLWAY.
5. OPEN THE LOW LEVEL OUTLET AT THE NEW SPILLWAY.
6. REPLACE STOP LOG AT EXISTING DAM TO DIVERT THE FLOW OVER THE OLD SPILLWAY AND FLASHBOARDS AND INTO THE LOW LEVEL OUTLET IN THE NEW SPILLWAY.
7. INSTALL SHEETING UPSTREAM OF CULVERTS, EXTENDING FROM NEW SPILLWAY TO THE COMPLETED RCC DAM SECTION.
8. REMOVE BOX CULVERTS AND COMPLETE RCC SECTION FROM STA:0+00 TO STA:0+40. ALTERNATIVELY, WITH THE APPROVAL OF THE ENGINEER THE CONTRACTOR MAY LEAVE CULVERTS IN PLACE AND FILL THEM WITH MASS CONCRETE TO THE LINES AND GRADES OF THE DAM.
9. CLOSE LOW LEVEL OUTLET AT THE NEW SPILLWAY AND FILL RESERVOIR IN ACCORDANCE WITH FILLING SEQUENCE.
10. DEMOLISH THE EXISTING DAM TO ELEVATION 584.0 AS DESCRIBED IN SPECIFICATIONS AND AS APPROVED BY ENGINEER. REMOVE ALL TEMPORARY SHEETING, BERMS AND OTHER DIVERSION DEVICES AS APPROVED BY THE ENGINEER.

SCALE IN FEET
10 0 20

LEGEND

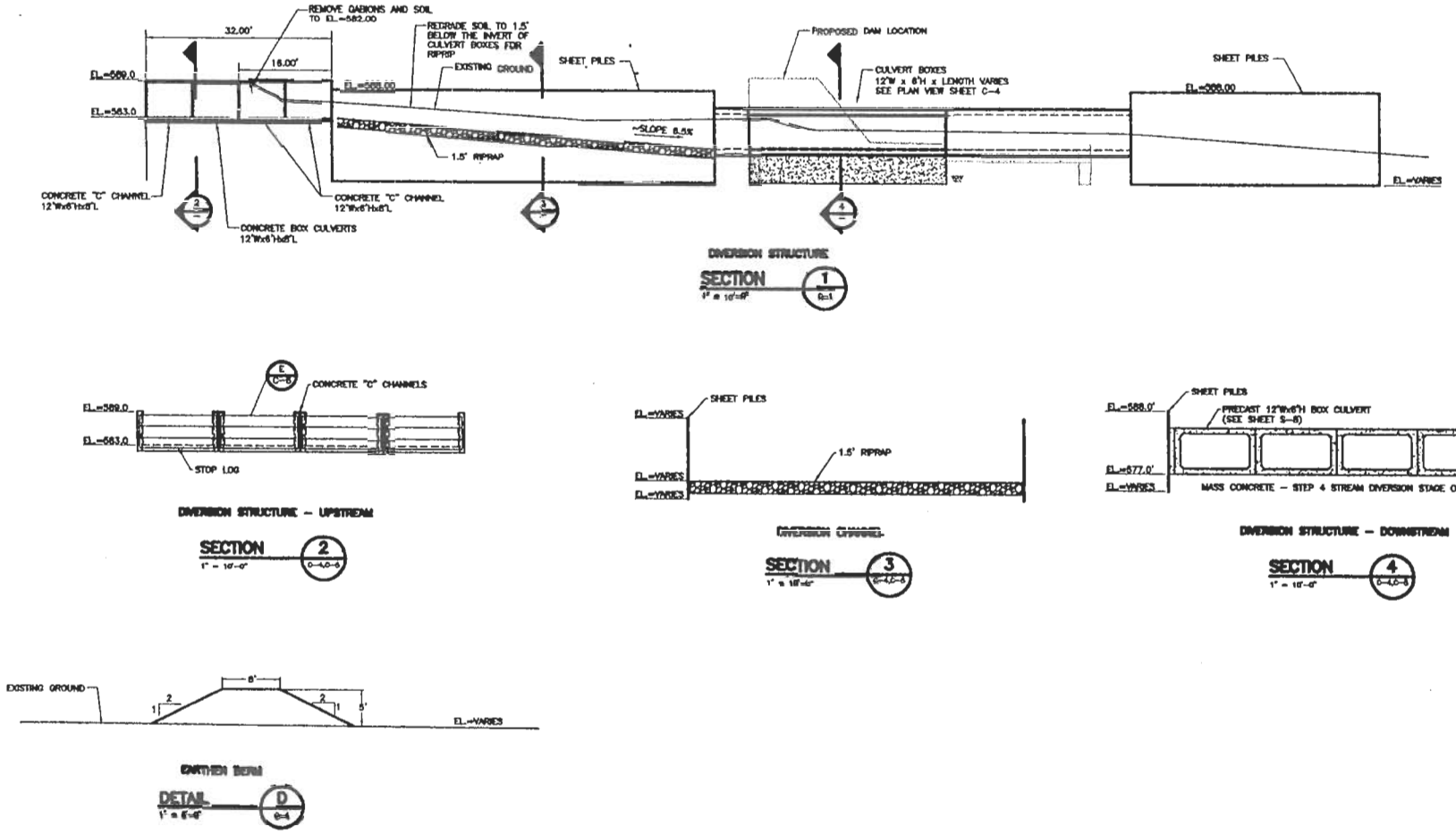
- EARTHEN BERM
- LIMITS OF CONSTRUCTION
- SHEET PILES
- B-101 BORING/PIEZOMETER PERFORMED BY CDM, 2003
- B-1 BORING/PIEZOMETER PERFORMED BY CDM, 2001

CDM Camp Dresser & McKee Inc.
consulting engineering construction operations
5400 Glenwood Avenue
Suite 300
Raleigh, NC 67612
Tel. (919) 787-5620

FRANKLIN, SIMPSON COUNTY, KENTUCKY

FRANKLIN DAM STREAM DIVERSION PLAN SHEET C-4

Figure No. 7



CDM Camp Dresser & McKee Inc.

consulting engineering construction operations

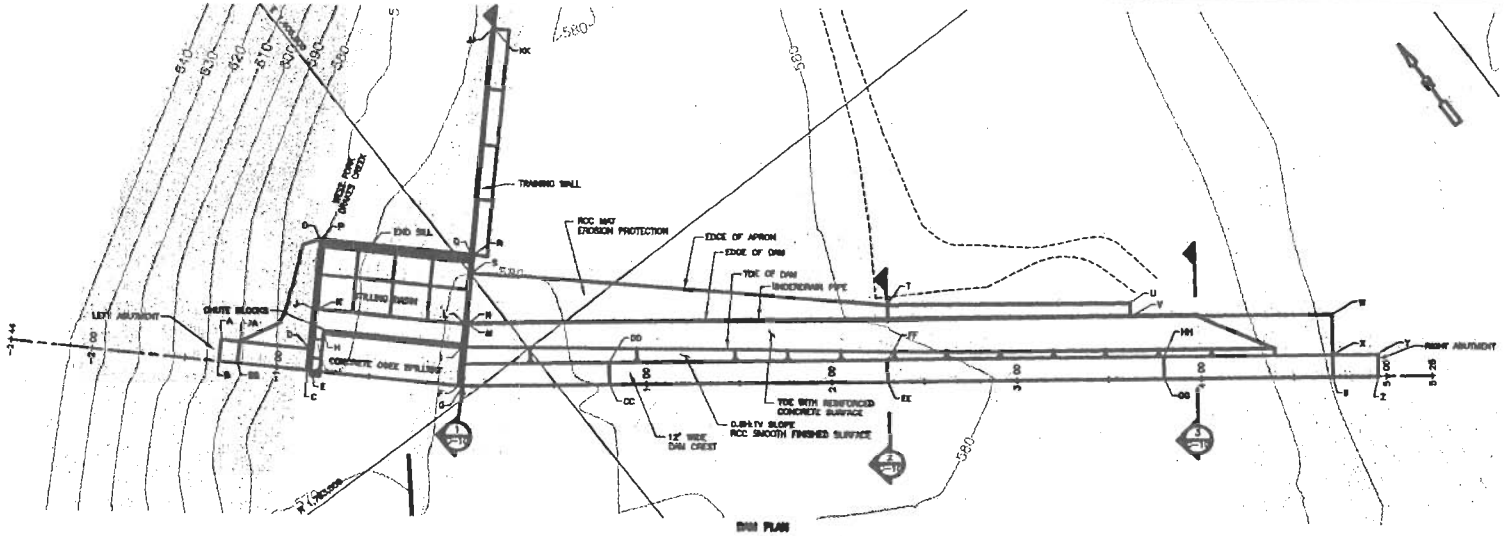
5400 Glenwood Avenue
Suite 300
Raleigh, NC 67612
Tel. (919) 787-5620

FRANKLIN, SIMPSON COUNTY, KENTUCKY

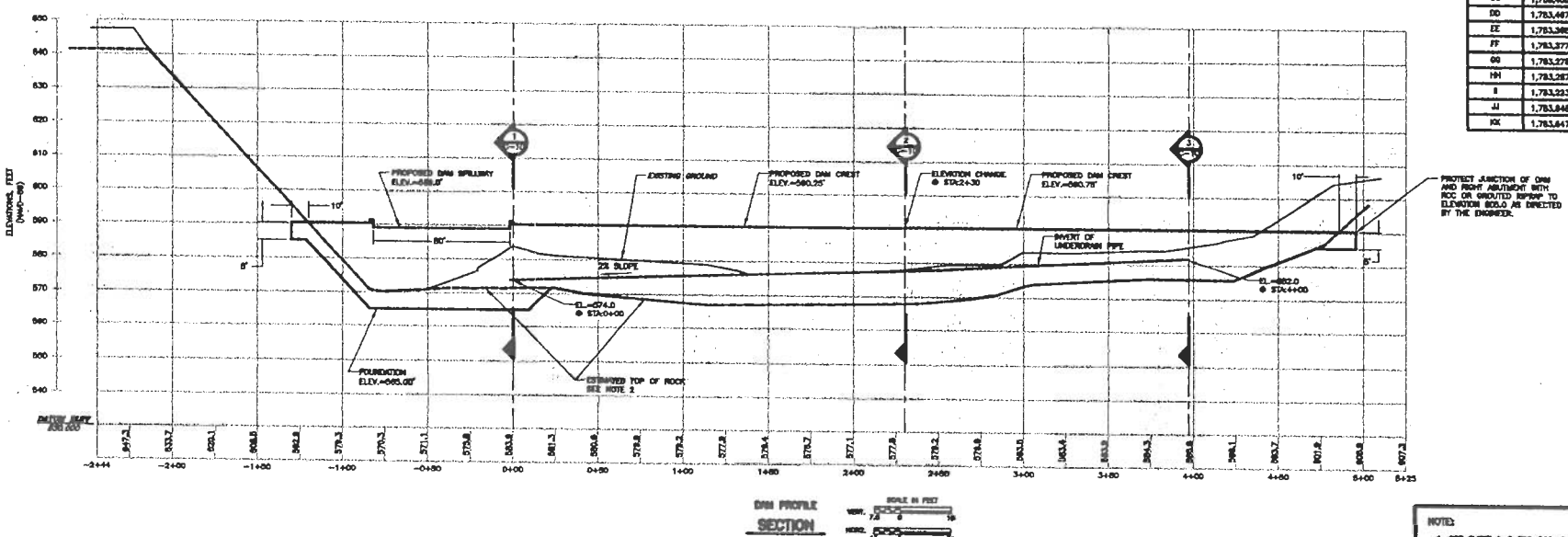
FRANKLIN DAM STREAM DIVERSION DETAILS SHEET C-5

Figure No. 8

L:\10316\8.5 x 11 figs\ Figure 8 07/12/04 13:15 costagniersg



LOCATION	NORTHING	EASTING
A	1,783,605.328	1,405,371.558
B	1,783,596.825	1,405,363.324
C	1,783,563.922	1,405,397.774
D	1,783,572.629	1,405,408.038
E	1,783,582.545	1,405,399.225
F	1,783,507.488	1,405,457.248
G	1,783,508.091	1,405,458.697
H	1,783,574.757	1,405,417.711
I	1,783,523.122	1,405,472.106
J	1,783,558.561	1,405,421.182
K	1,783,567.200	1,405,422.633
L	1,783,532.255	1,405,460.840
M	1,783,530.750	1,405,462.105
N	1,783,531.275	1,405,461.913
O	1,783,615.495	1,405,447.420
P	1,783,614.463	1,405,448.608
Q	1,783,559.395	1,405,506.529
R	1,783,558.353	1,405,507.617
S	1,783,551.285	1,405,500.908
T	1,783,401.842	1,405,667.882
U	1,783,321.587	1,405,773.043
V	1,783,315.988	1,405,788.842
W	1,783,250.671	1,405,855.898
X	1,783,233.074	1,405,842.692
Y	1,783,218.370	1,405,862.259
Z	1,783,208.771	1,405,866.088
AA	1,783,598.443	1,405,378.838
BB	1,783,589.740	1,405,370.577
CC	1,783,408.054	1,405,522.720
DD	1,783,467.733	1,405,529.943
EE	1,783,365.111	1,405,642.723
FF	1,783,377.709	1,405,649.825
GG	1,783,278.087	1,405,782.705
HH	1,783,287.886	1,405,789.907
II	1,783,223.475	1,405,835.490
JJ	1,783,848.231	1,405,590.886
KK	1,783,647.542	1,405,591.592



NOTE:

1. SEE SHEET C-3 FOR BORING INFORMATION
2. ESTIMATED TOP OF ROCK IS BASED ON BORINGS AND ACTUAL TOP OF ROCK MAY BE DIFFERENT THAN SHOWN. EXCAVATION FOR THE DAM SHALL EXTEND TO THE BOTTOM OF RIPPABLE ROCK OR AS DETERMINED BY ENGINEER. EXCAVATION FOR SPILLWAY SHALL EXTEND TO ELEVATION 565.0.

CDM Camp Dresser & McKee Inc.

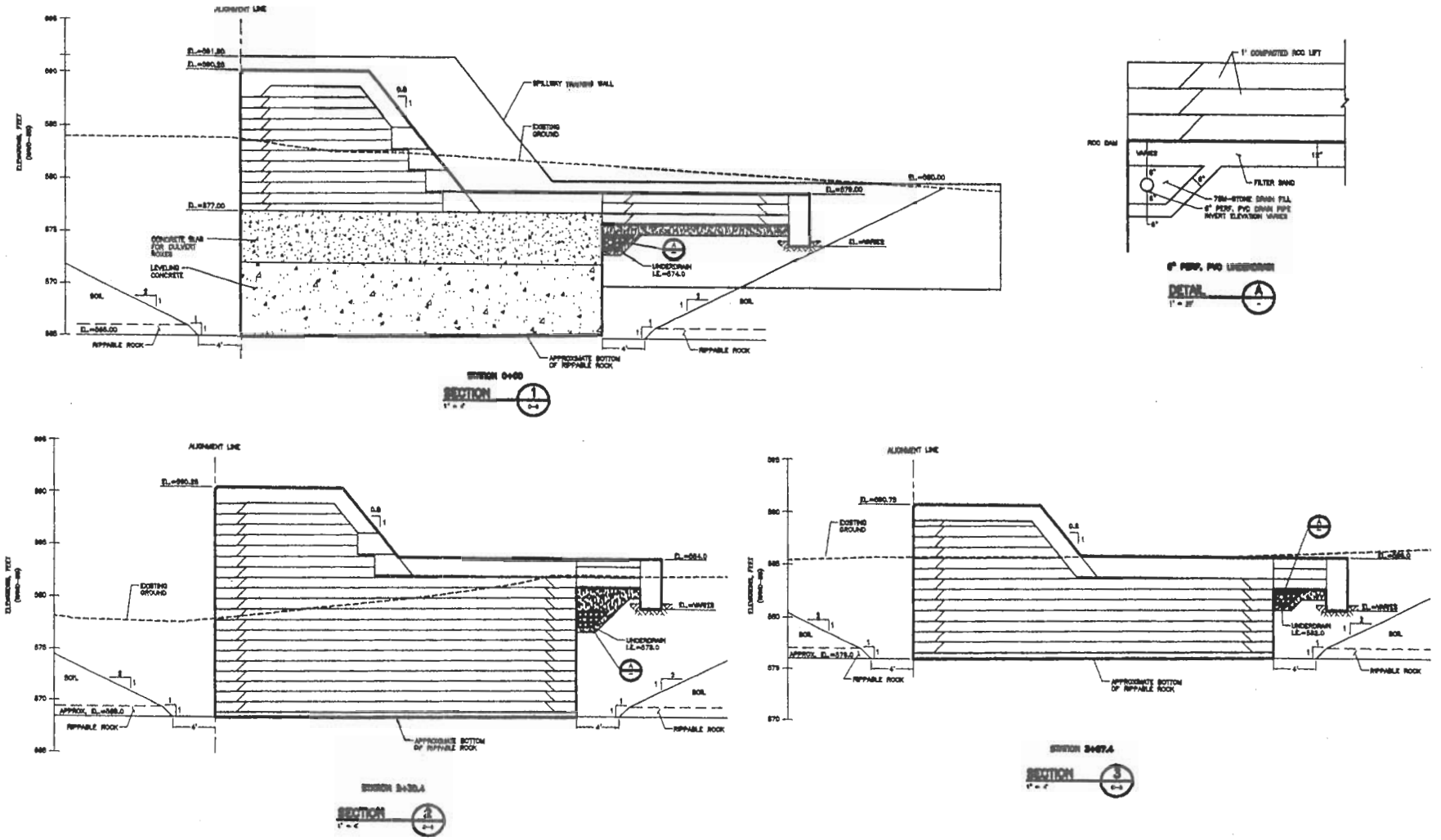
consulting engineering construction operations

5400 Glenwood Avenue
Suite 300
Raleigh, NC 67612
Tel. (919) 787-5620

FRANKLIN, SIMPSON COUNTY, KENTUCKY

FRANKLIN DAM
RCC DAM AND CONCRETE SPILLWAY
SHEET C-9

Figure No. 9



CDM Camp Dresser & McKee Inc.
consulting engineering construction operations
5400 Glenwood Avenue
Suite 300
Raleigh, NC 67612
Tel. (919) 787-5620

FRANKLIN, SIMPSON COUNTY, KENTUCKY

FRANKLIN DAM
DAM SECTIONS
SHEET C-10

Figure No. 10

L:\10316\8.5 x 11 figs\ Figure 10 07/12/04 13:59 costagniersg

PUBLIC NOTICE NO. 200400070 sheet 11 of 11