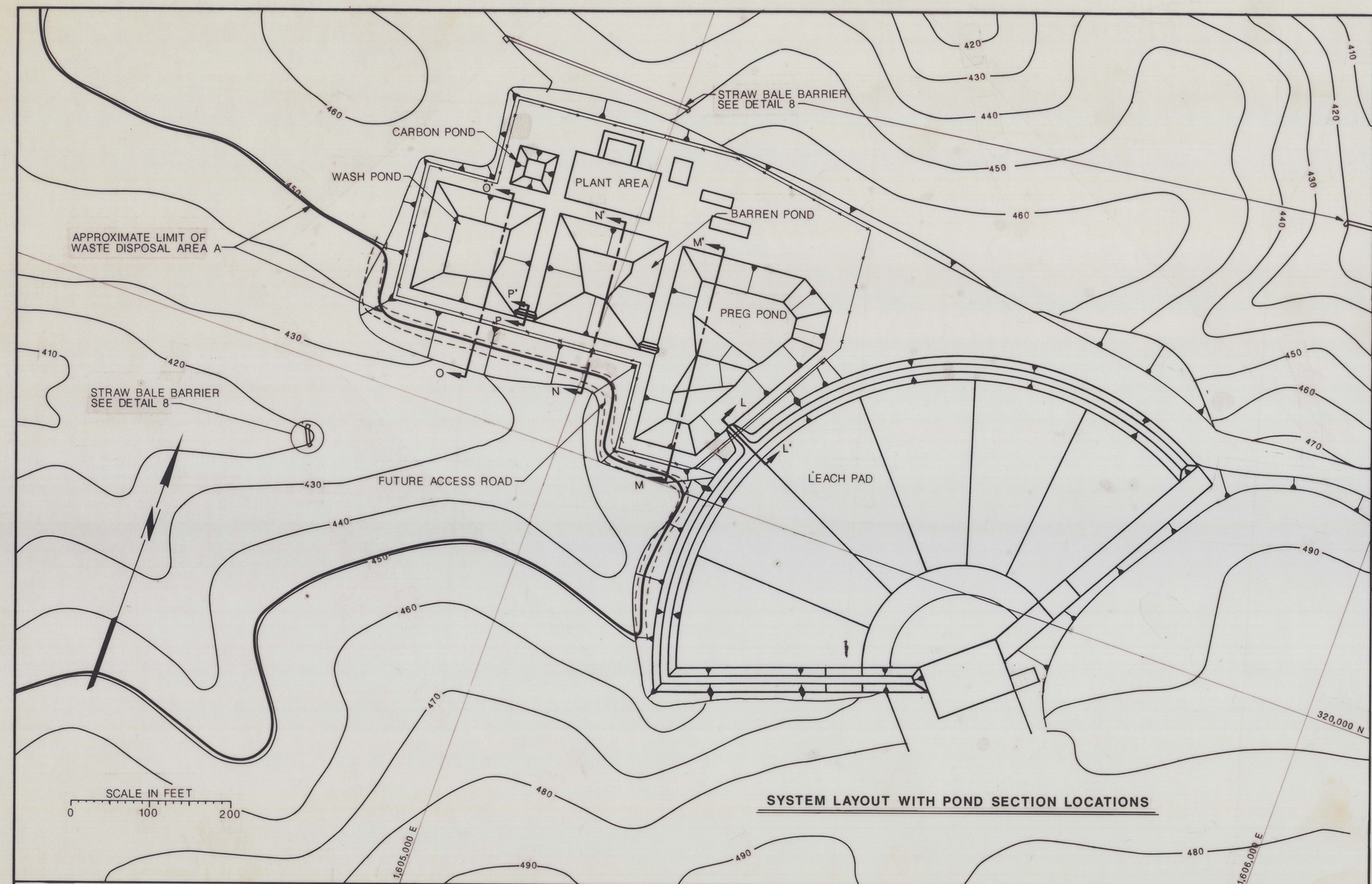
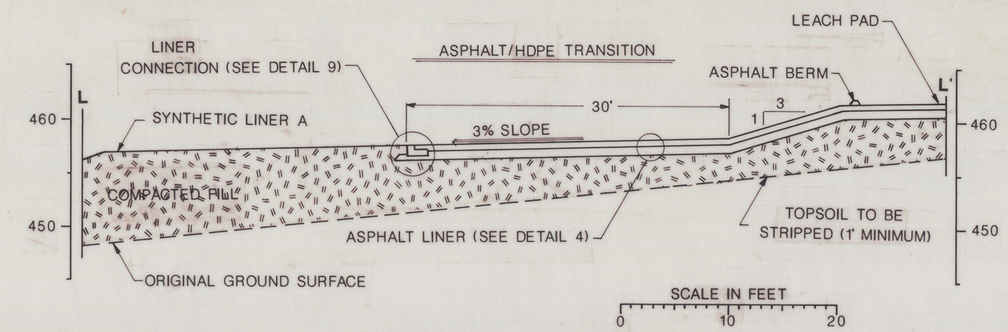
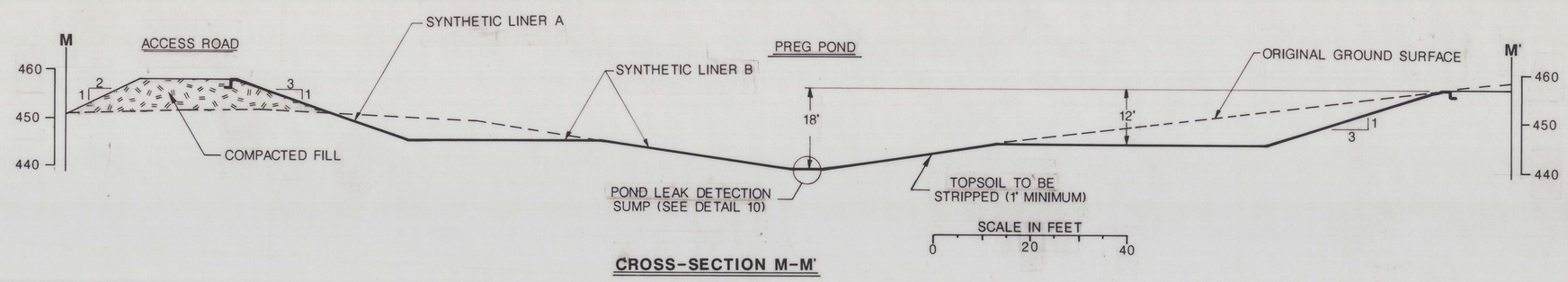


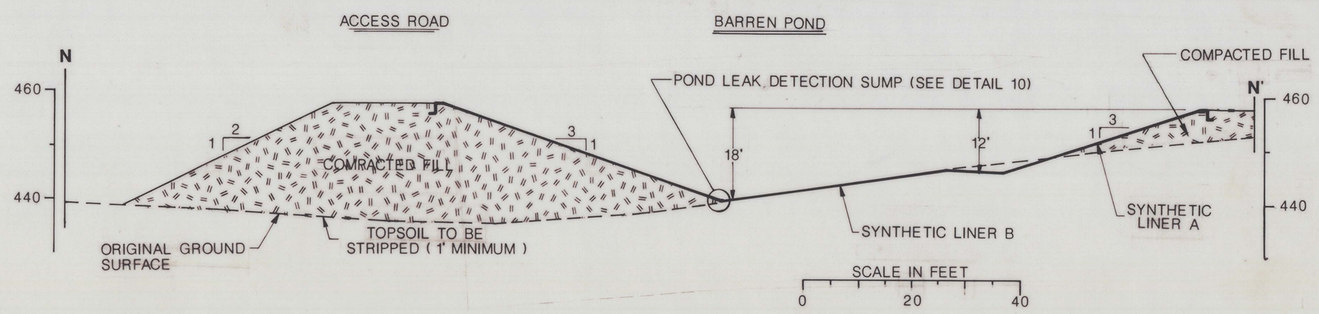
SYSTEM LAYOUT WITH POND SECTION LOCATIONS



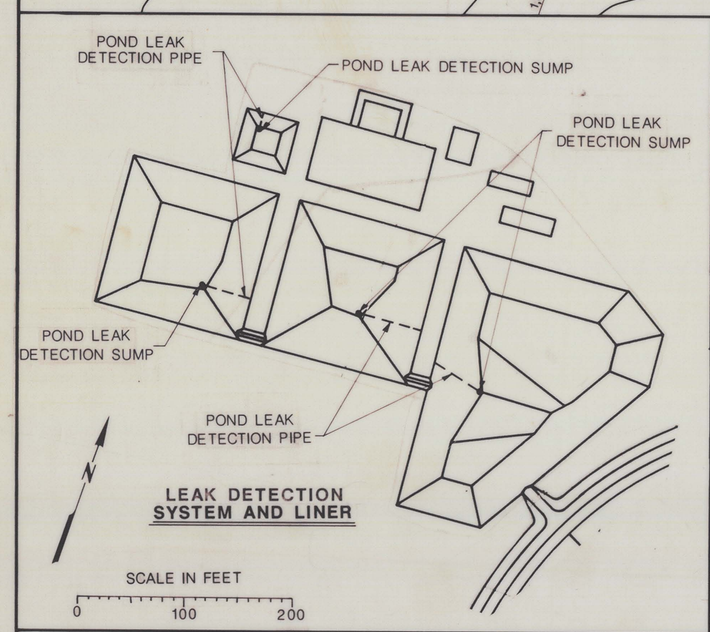
CROSS-SECTION L-L'



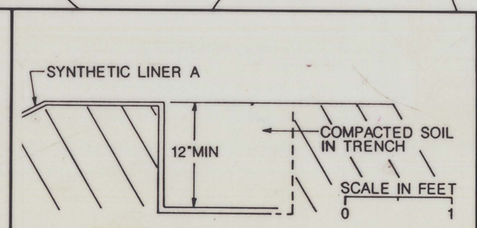
CROSS-SECTION M-M'



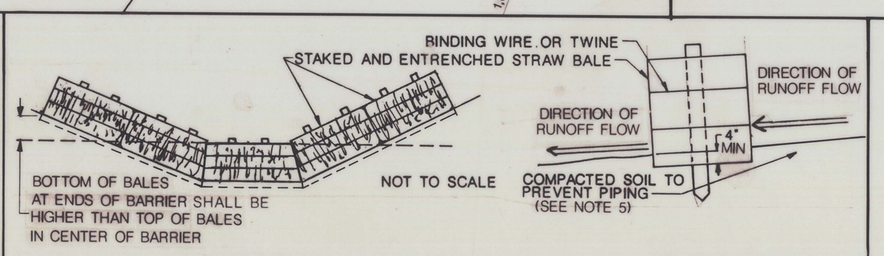
CROSS-SECTION N-N'



LEAK DETECTION SYSTEM AND LINER



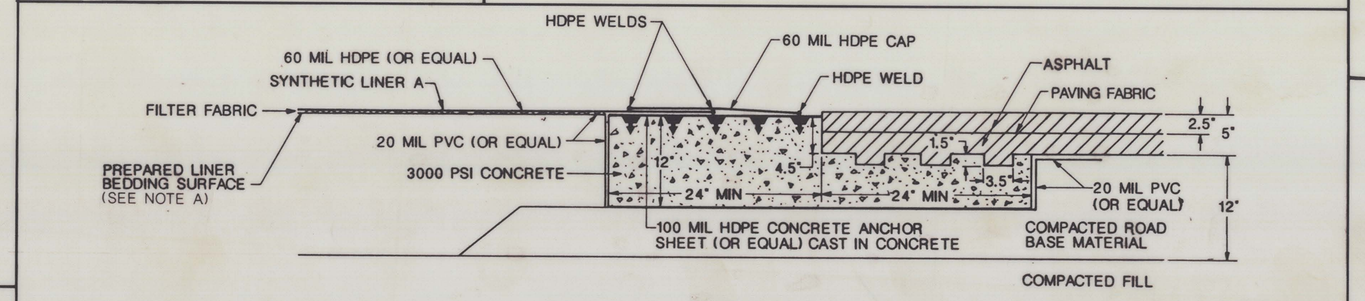
DETAIL 7
LINER ANCHOR



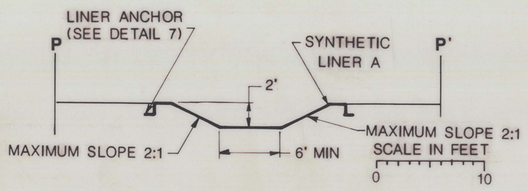
DETAIL 8a
TYPICAL LONG SECTION OF STRAW BALE BARRIER IN DRAINAGE WAY

DETAIL 8b
TYPICAL LONG SECTION OF STRAW BALE BARRIER

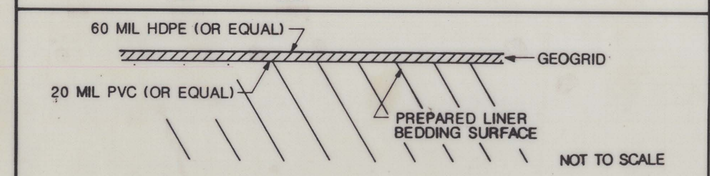
CROSS-SECTION O-O'



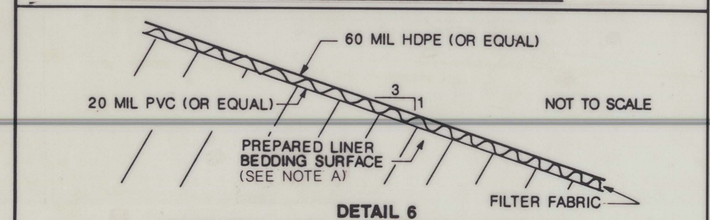
DETAIL 9
SYNTHETIC LINER/ASPHALT LINER CONNECTION



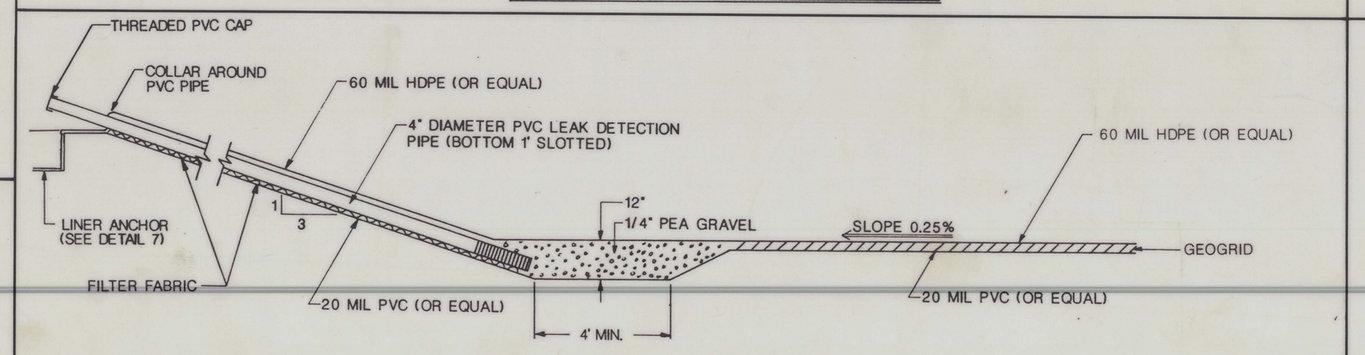
CROSS-SECTION P-P'



DETAIL 5
SYNTHETIC LINER B (ON HORIZONTAL SURFACES)



DETAIL 6
SYNTHETIC LINER A (ON SLOPING SURFACES)



DETAIL 10
POND LEAK DETECTION SUMP

NOTES

1. Compacted fill beneath the ponds shall be minus 6-inch material, placed in 18-inch lifts, and compacted to 90 percent of Modified Proctor density (ASTM D 1557).
2. Buffer sheets shall consist of additional 60 mil HDPE (or equal) welded to the top of Synthetic Liner A in areas of discharging fluids.
3. Synthetic Liner A shall be installed on sloping pond surfaces or specified flat areas. Synthetic Liner B shall be installed on horizontal pond surfaces.
4. The prepared liner bedding surface shall be prepared beneath areas to receive the synthetic liner. The bedding surface shall consist of suitable fine-grained soils, rolled to a smooth and unyielding foundation with no sharp or protruding objects or abrupt changes in grade.
5. Soil on upstream side of straw bale barrier shall be tamped or compacted within three ft of the barrier, after straw bale barrier installation.

REVIEWED BY D.P. ENGINEERING, INC.

SOUTH CAROLINA PROFESSIONAL ENGINEER 11490 DON ANDREW POULTER 9-2-89

DON ANDREW POULTER, P.E.
SOUTH CAROLINA REGISTRATION No. 11490

REVISIONS

No	DESCRIPTION	BY	CKD	APPROVED		DATE
0	ISSUED FOR PERMITTING	BRJ	CLS	DAP		3/89
1	ISSUED FOR BIDDING	BRJ	CLS	DAP		7/89
2	LEACH PAD RELOCATED; ISSUED FOR CONSTRUCTION	BRJ	CLS	DAP		8/89

REFERENCES

DRAWING No	DRAWING TITLE
	SEE DRAWING 190-1

DESIGNERS

	BY	DATE
DESIGNED	BLC	8/89
DRAWN	BRJ	8/89
CHECKED	CLS	8/89
APPROVED	DAP	8/89
REVIEWED		
APPROVED		

PREPARED BY
Water, Waste & Land, Inc.

PREPARED FOR
GWALIA (USA) LTD.

TITLE
POND SECTIONS AND DETAILS

DRAWING No 190-7
PROJECT No 190
SCALE
REVISION 2