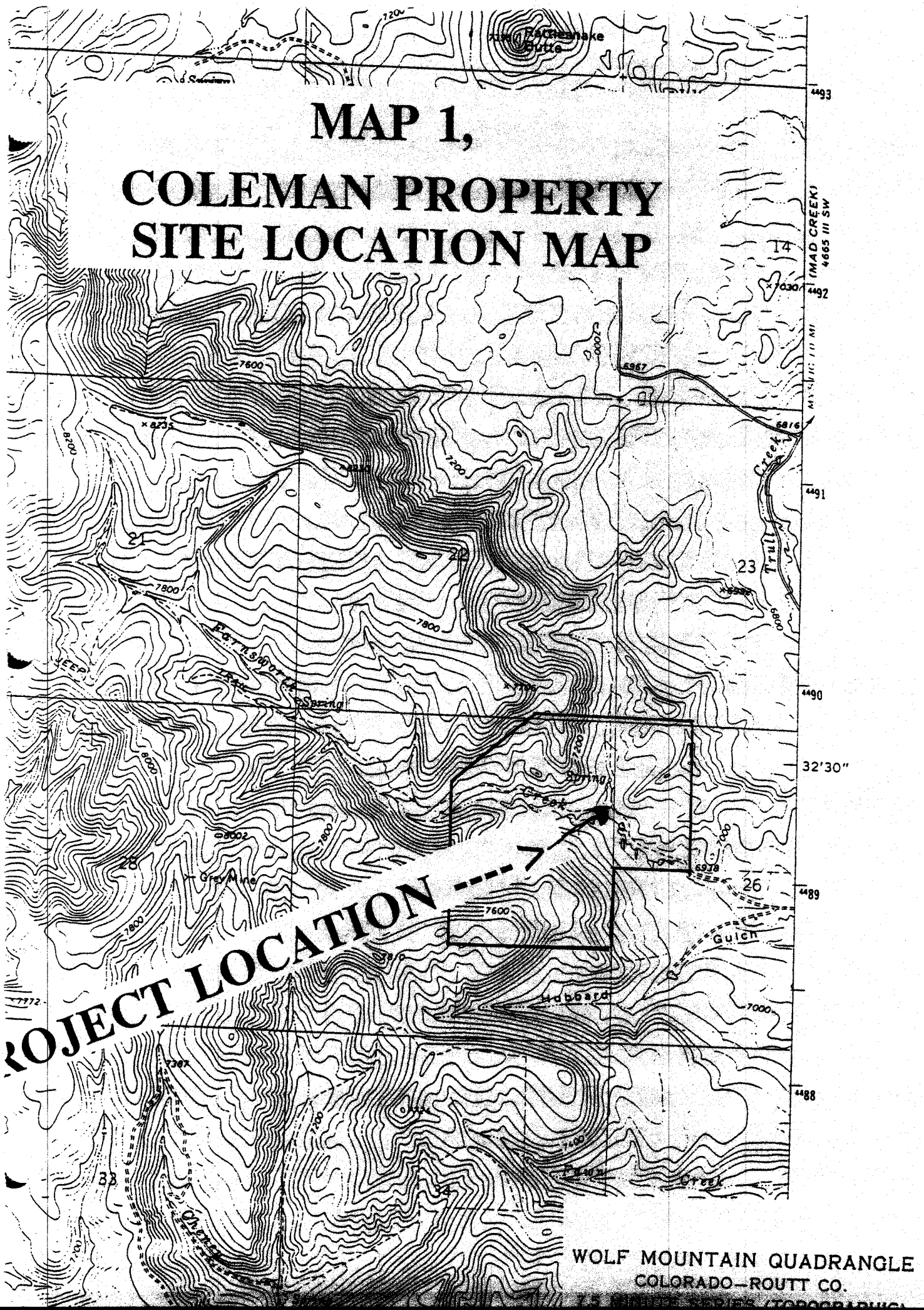
MAP 1,

COLEMAN PROPERTY SITE LOCATION MAP



WOLF MOUNTAIN QUADRANGLE
COLORADO—ROUTT CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

Table 1

Wetland Impact Summary

Impact Site	Impact	Wetland Impact Area (SF)	Stream Impact Area (SF)	Cubic Yards of Fill
A	Access Road	493*	-	18*
	The request to leave this fill is being withdrawn. This impact area will be restored and the road alignment will be moved in this location. This material will be removed as soon as the necessary permits are approved and the site is dry enough to work on.			
B	Access Road	1,128*	-	42*
	The request to leave this fill is being withdrawn. This impact area will be restored and the road alignment will be moved in this location. This material will be removed as soon as the necessary permits are approved and site conditions allow.			
C	Access Road	4,231^	-	470^
D	**Wetland to be Restored** Excavated Pond Area Dam Fill to Be Removed	30,471# 3930* **Total 34,401#**	- - -	- 427*
	Impacted Wetlands Inundated Wetlands Wetlands Under Dam Waterfall Impacts Diversion/Inlet Impacts	7,755^ 1,646^ 70^ 587^ **Total 10,058^**	- - 30^ 30^ **60^**	-15,520^** 3,688^ - - **3688 ^/-15,520^****

Table 1

Wetland Impact Summary

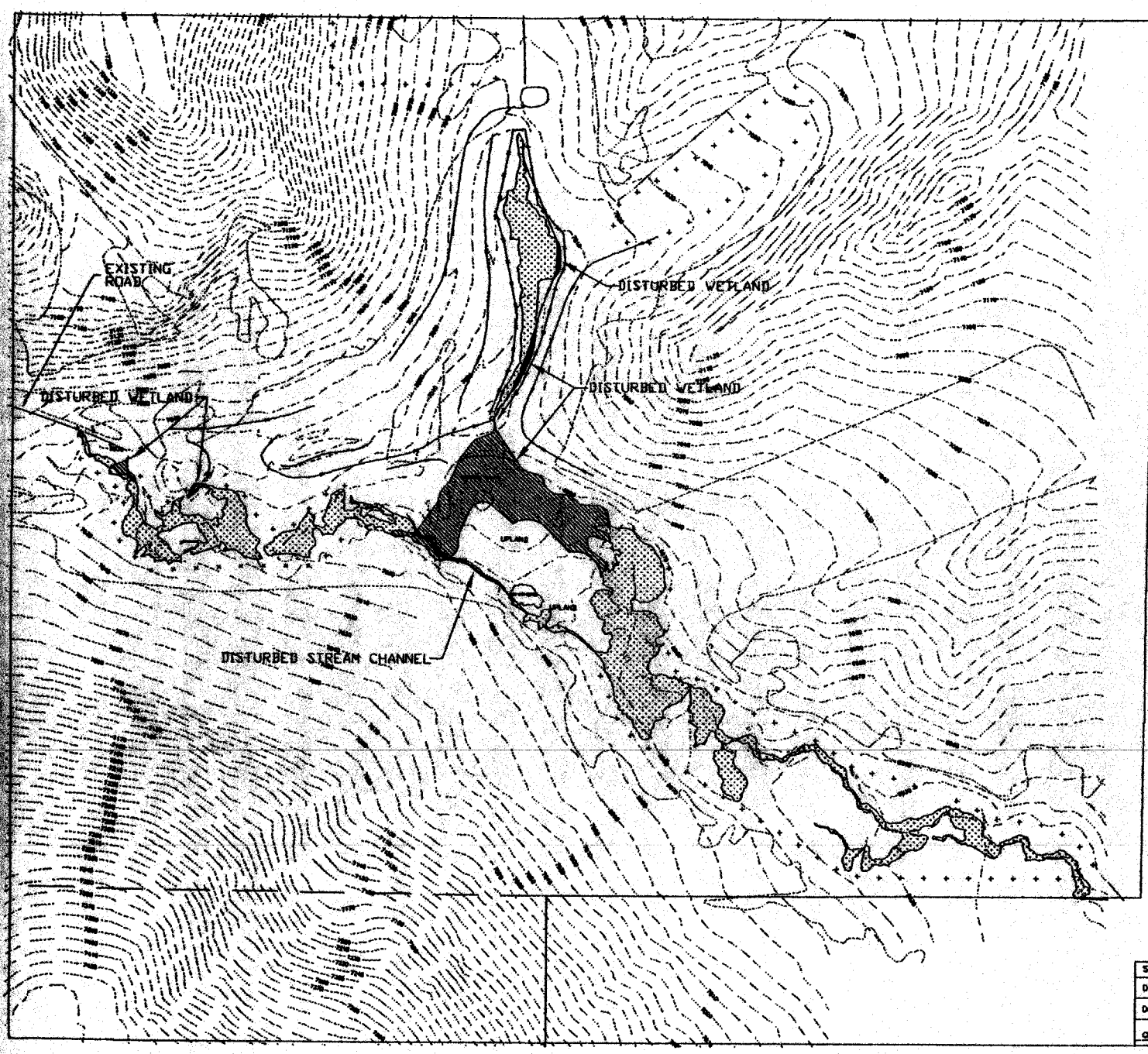
Impact Site	Impact	Wetland Impact Area (SF)	Stream Impact Area (SF)	Cubic Yards of Fill
	Revisions to the pond embankment design will result in the removal of the fill from 3,930 SF of wetlands. Approximately 427 cubic yards of fill will be removed. This material will be removed as soon as the necessary permits are obtained. In addition, an area of approximately 30,471 SF of shoreline and excavated area at the pond site will be restored.			
E	Stream Relocation	-	874#	-15**/+18
	Grading on this site was completed in the fall of 1999 as directed by the COE. This impact site will be reseeded and the site restored as soon as the necessary permit approvals are obtained.			
F	Topsoil Stockpile	252*	-	19*
	This material will be removed and the site restored. This work will be performed early in the Spring of 2001 as soon as the necessary permits are obtained and the site is dry enough to work.			
	Total	50,563	934	+4682/-15,535**
	***Temporary Fill to be Removed (Impact Sites A, B, D and F)**	5,803	-	-15**/+524
	#Impacted Areas to be Restored (Impact Sites D& E)	30,471	874	-
	^Permanent Wetland Impacts (Impact Sites C and D)	14,289	60	4,158 -15,520**

According to the Contractors Records, work on this site commenced in June of 1999 when the construction work on the access road commenced and the work in the wetland areas ended on 7 September 2000 as directed by the U.S. Army Corps of Engineers. It was during this period that Wetland Impact Sites A, B, C and F were affected.

Disturbance to the wetlands in the pond area commenced on 26 July 2000 and work terminated on this site on 7 September 2000. It was during this period that Wetland Impact Sites D and E were affected.

* denotes temporary wetland impact site.

** negative numbers denote areas which were impacted by excavation



NORTH

1"=100'

DISTURBED WETLAND

DISTURBED STREAM CHANNEL

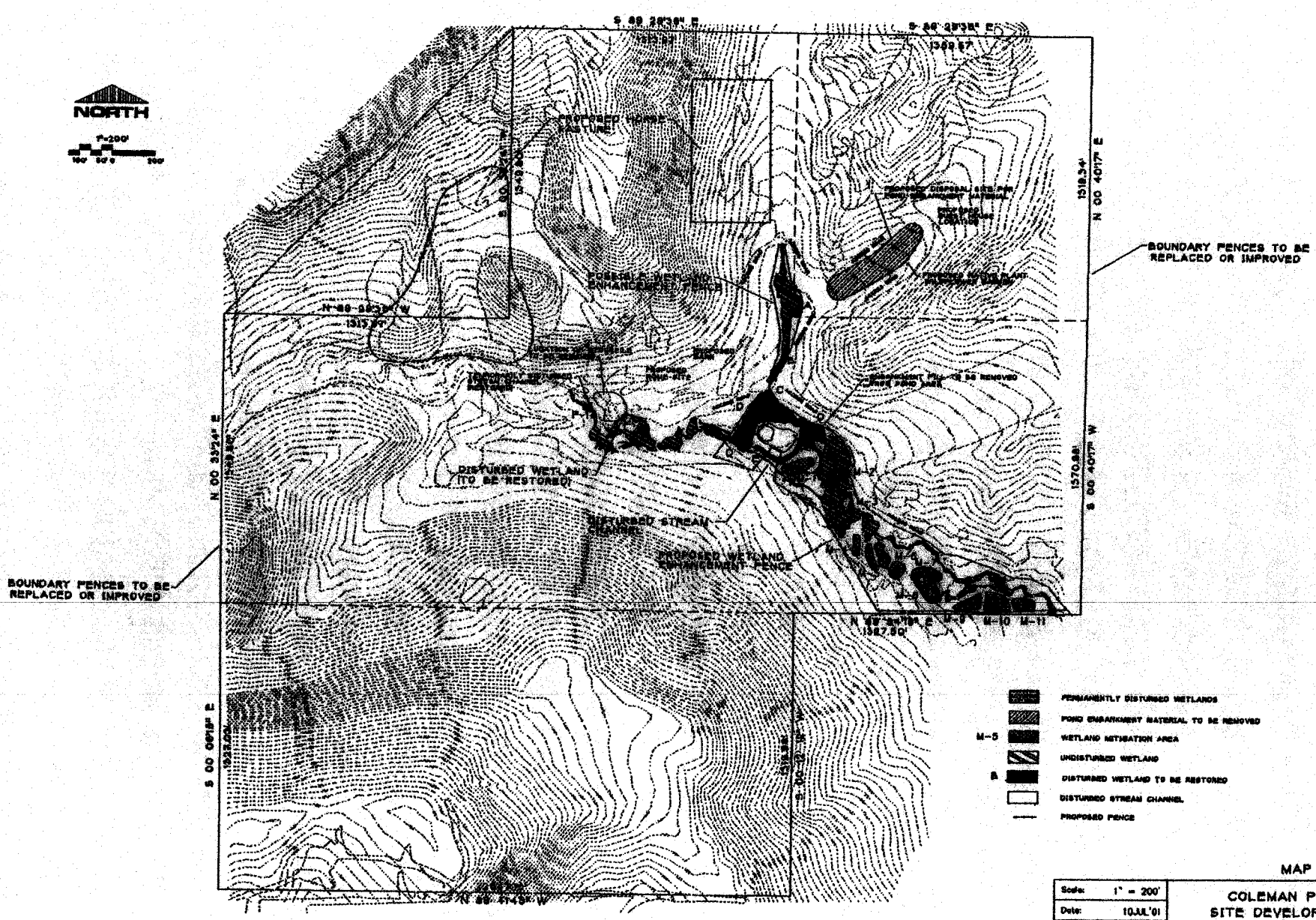
UNDISTURBED WETLAND

MAP 2

Scale:	1" = 100'
Date:	MAY 31, 2001
Drawn:	JAKE'S
Checked:	K CROFTS

COLEMAN PROPERTY
WETLAND DELINEATION MAP

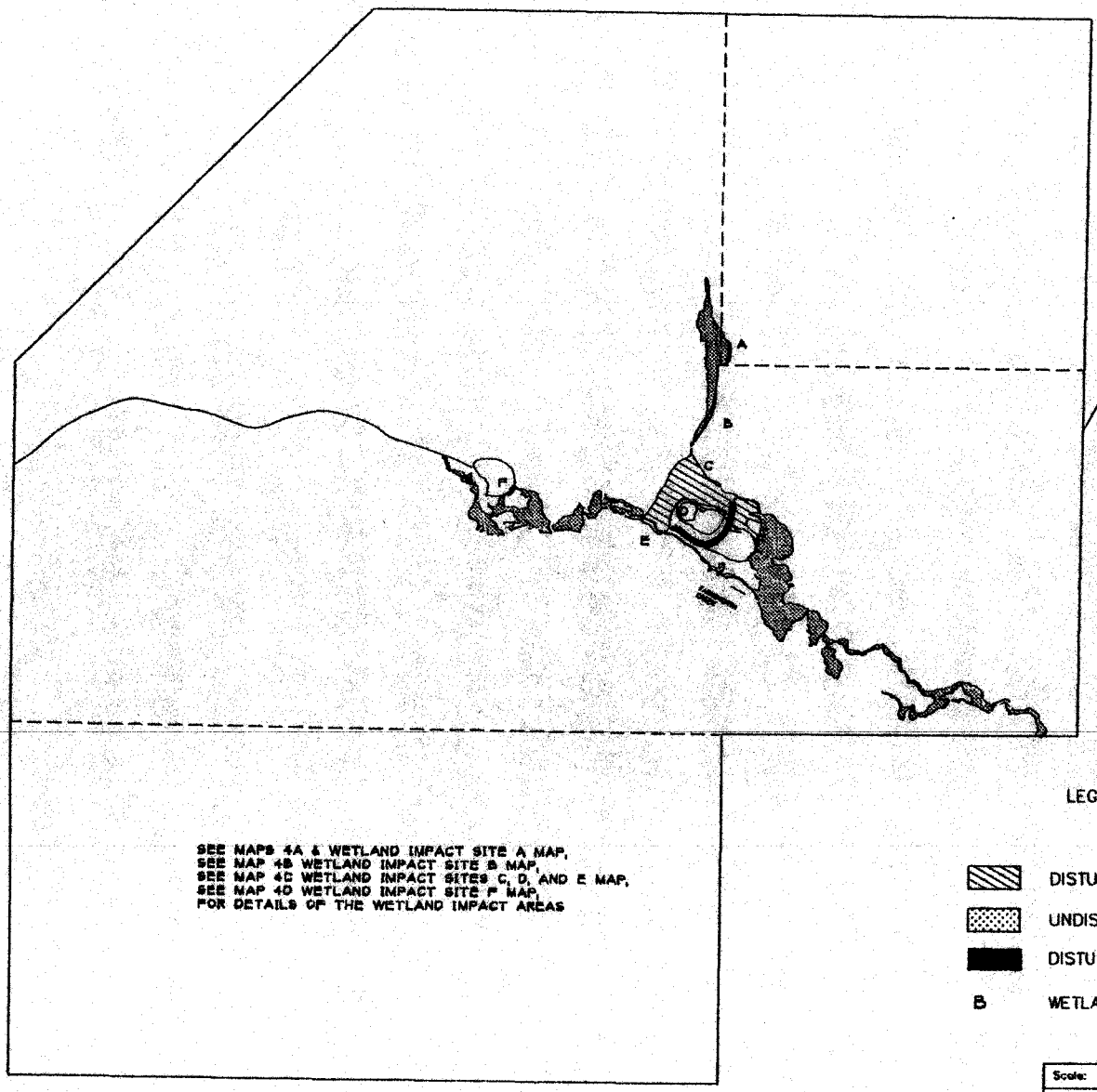
I.M.E.
P.O. BOX 270 YAMPA, COLORADO 80483
970-638-4482



MAP 3

Scale:	1" = 200'
Date:	10JUL'01
Drawn:	JAKE'S
Checked:	K CROFTS

COLEMAN PROPERTY
SITE DEVELOPMENT MAP
I.M.E.
P.O. BOX 270 YAMPA, COLORADO 80483
970-638-4462



NORTH

PROPERTY LINE

SEE MAPS 4A & WETLAND IMPACT SITE A MAP,
SEE MAP 4B WETLAND IMPACT SITE B MAP,
SEE MAP 4C WETLAND IMPACT SITES C, D, AND E MAP,
SEE MAP 4D WETLAND IMPACT SITE F MAP,
FOR DETAILS OF THE WETLAND IMPACT AREAS

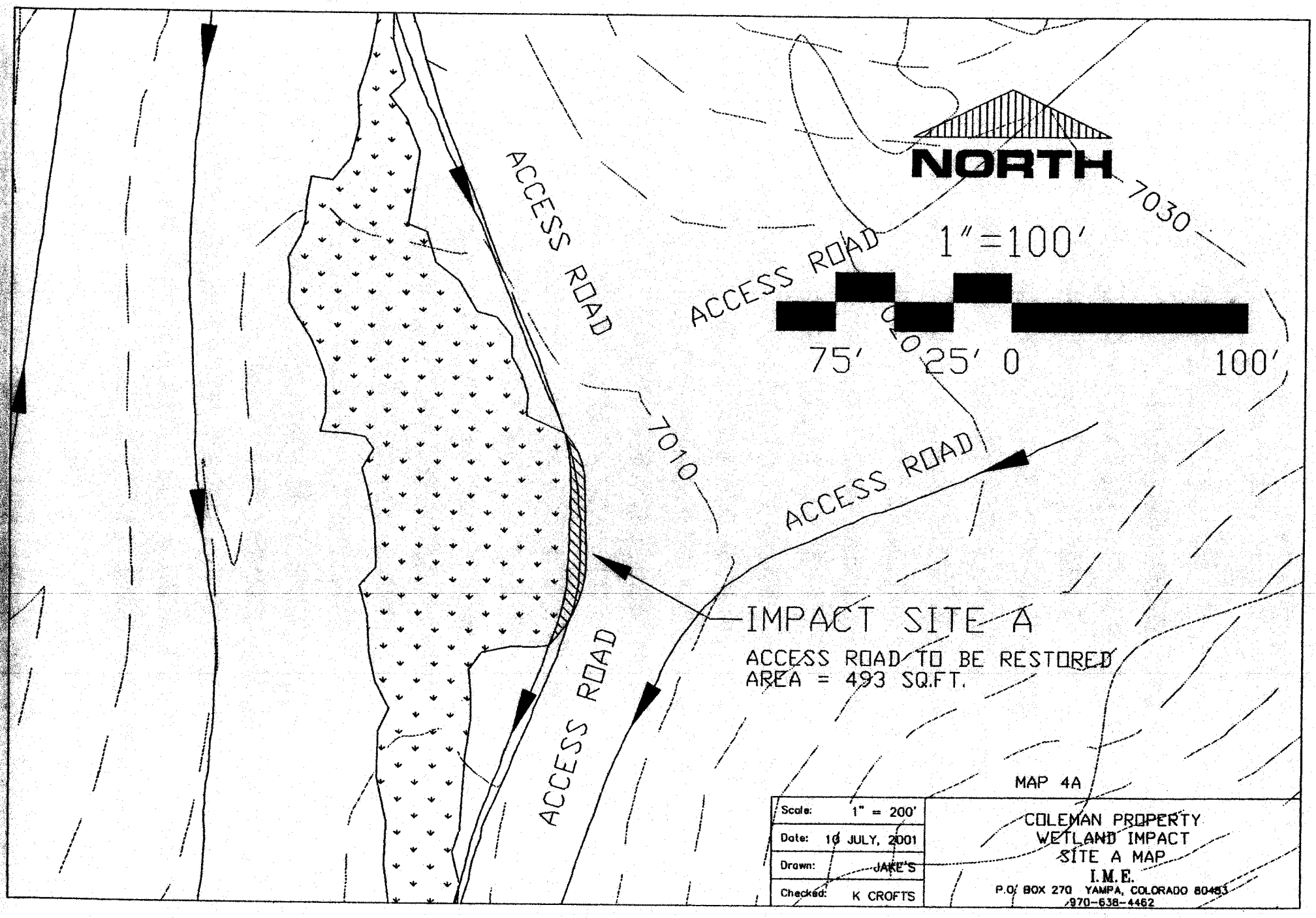
LEGEND

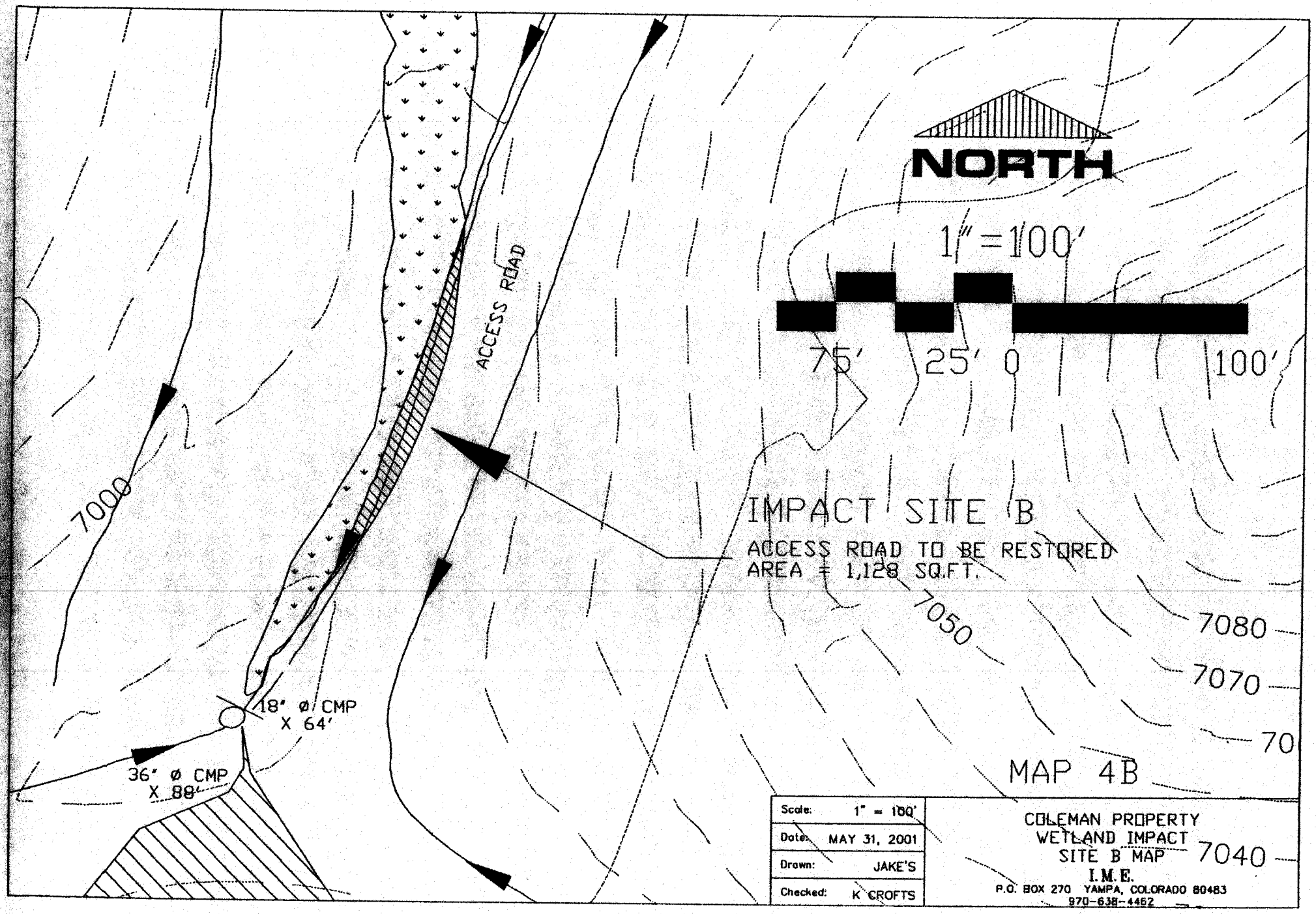
- DISTURBED WETLANDS
- UNDISTURBED WETLAND
- DISTURBED STREAM CHANNEL
- B WETLAND IMPACT SITE

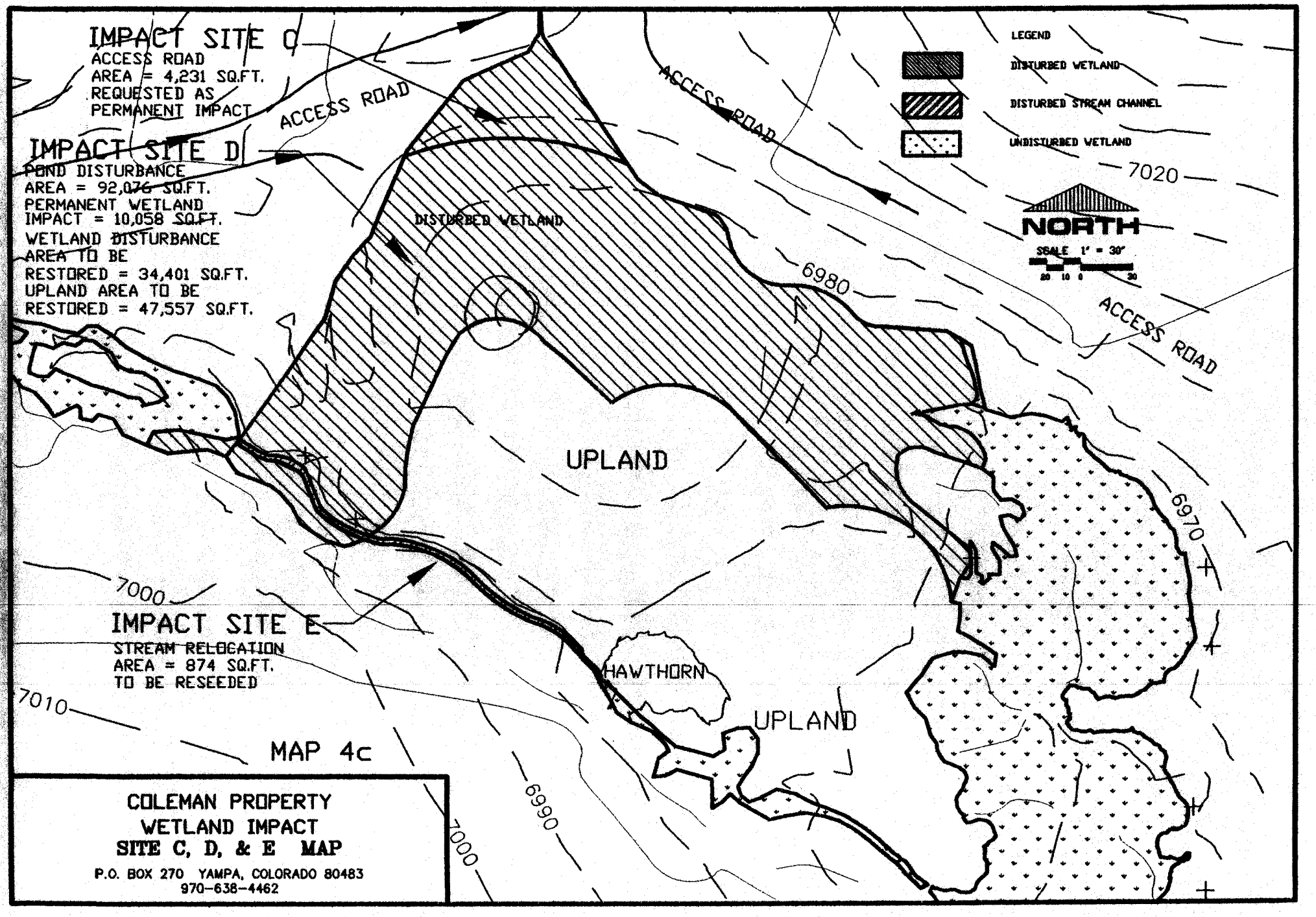
MAP 4

Scale:	1" = 200'
Date:	31 MAY'01
Drawn:	JAKE'S
Checked:	K CROFTS

COLEMAN PROPERTY
WETLAND IMPACT SITE MAP
I.M.E.
P.O. BOX 270 YAMPA, COLORADO 80483
970-638-4462

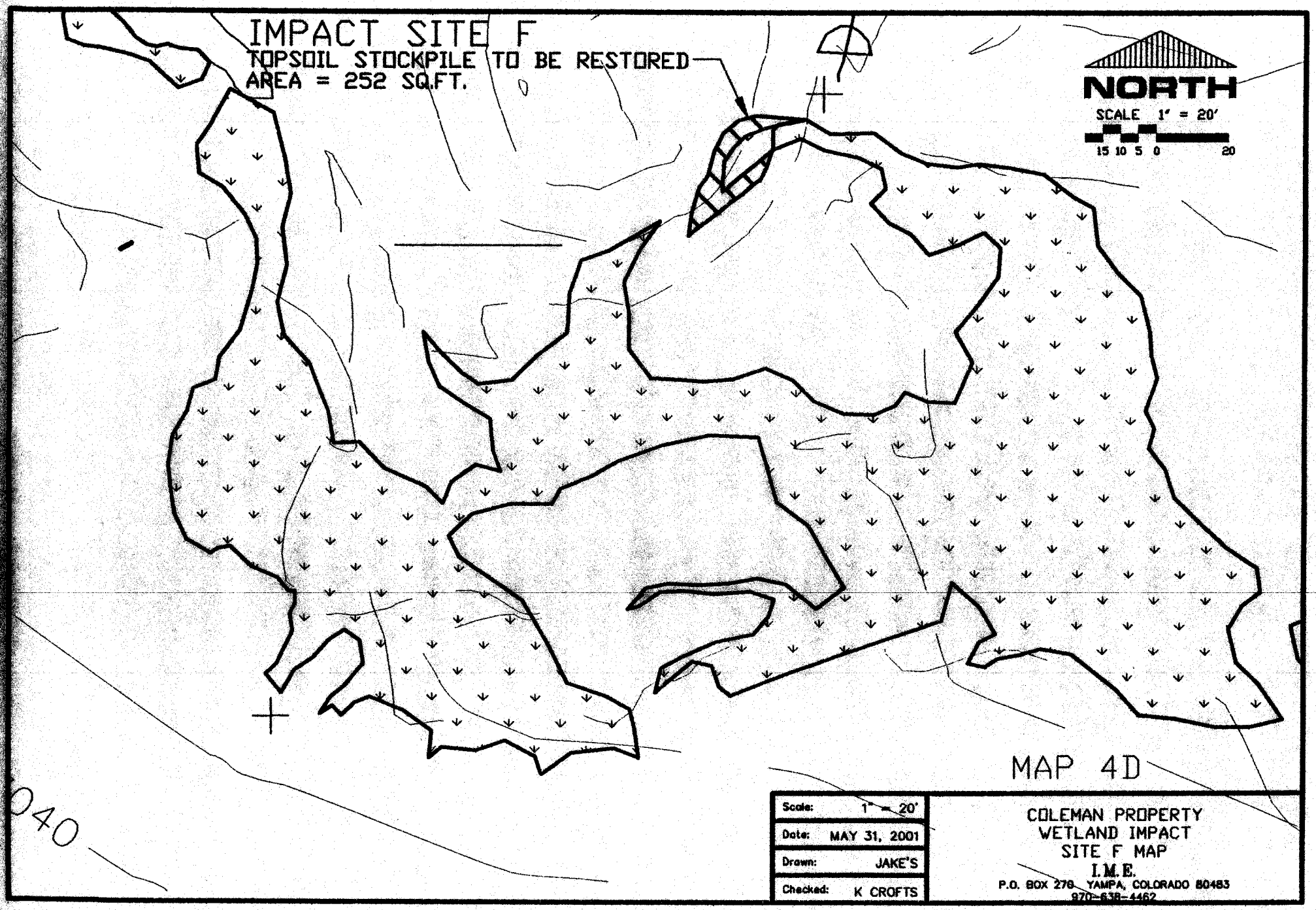

NORTH
1"=100'
75' 50' 25' 0 100'
ACCESS ROAD
ACCESS ROAD
ACCESS ROAD
ACCESS ROAD
7030
7010
IMPACT SITE A
ACCESS ROAD TO BE RESTORED
AREA = 493 SQ.FT.
MAP 4A
Scale: 1" = 200'
Date: 10 JULY, 2001
Drawn: JAKE'S
Checked: K CROFTS
COLEMAN PROPERTY
WETLAND IMPACT
SITE A MAP
I.M.E.
P.O. BOX 270 YAMPA, COLORADO 80483
970-638-4462

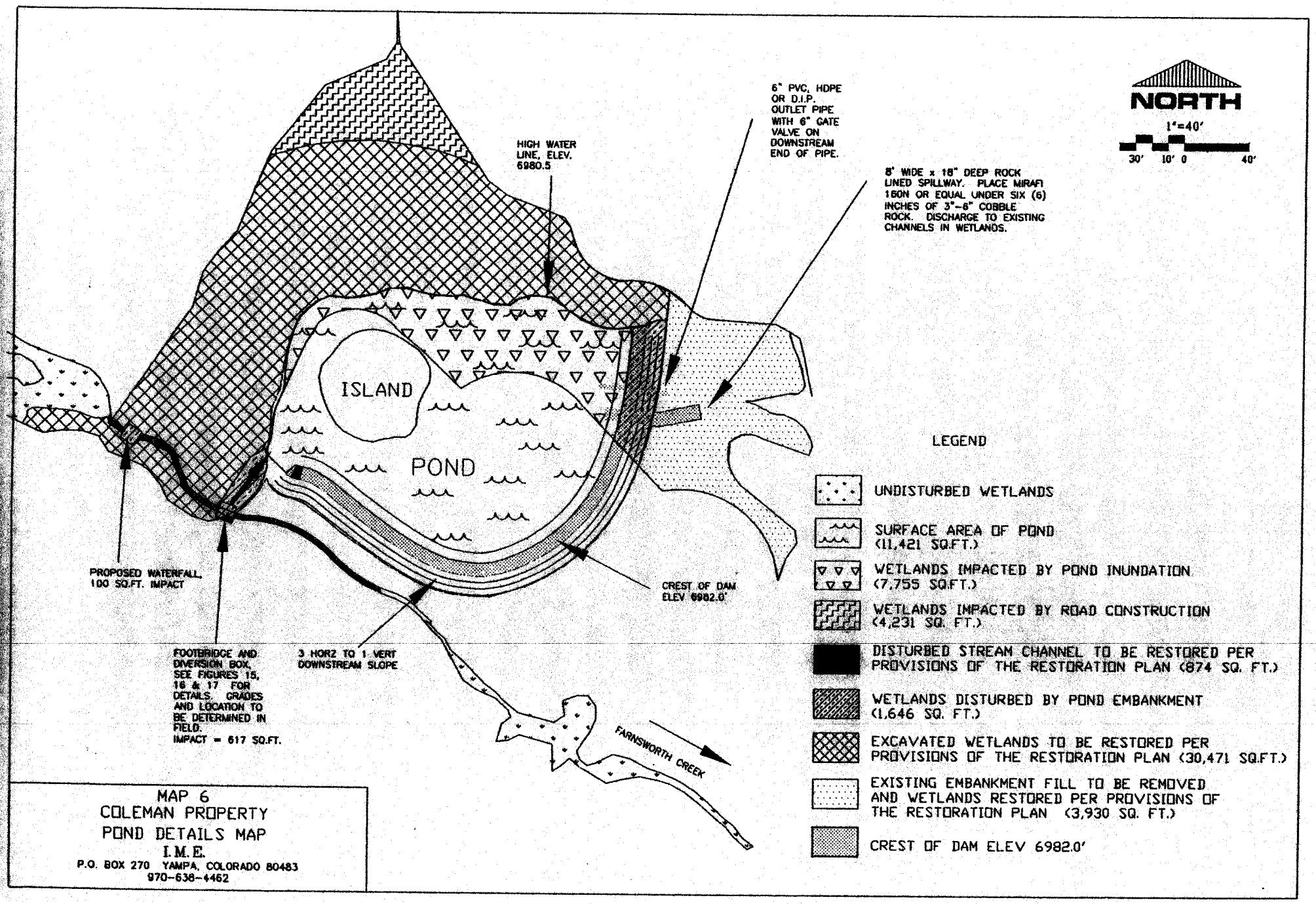

NORTH
1" = 100'
75' 25' 0 100'
ACCESS ROAD
IMPACT SITE B
ACCESS ROAD TO BE RESTORED
AREA = 1,128 SQ.FT.
7000
7050
7080
7070
70
7040
18" ø CMP
X 64'
36" ø CMP
X 88'
MAP 4B
Scale: 1" = 100'
Date: MAY 31, 2001
Drawn: JAKE'S
Checked: K CROFTS
COLEMAN PROPERTY
WETLAND IMPACT
SITE B MAP
I.M.E.
P.O. BOX 270 YAMPA, COLORADO 80483
970-638-4462



COLEMAN PROPERTY
WETLAND IMPACT
SITE C, D, & E MAP

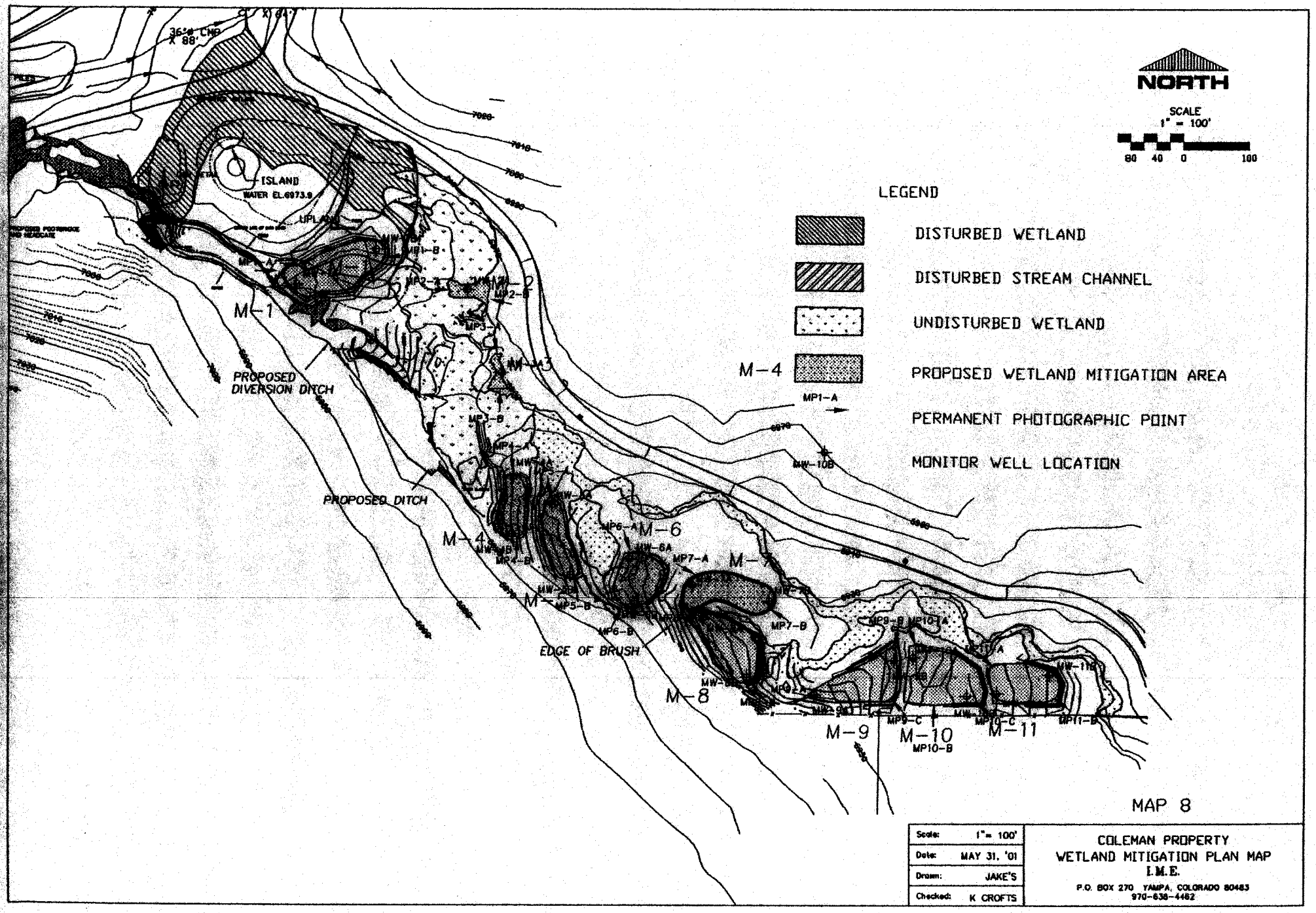
P.O. BOX 270 YAMPA, COLORADO 80483
970-638-4462


IMPACT SITE F
TOPSOIL STOCKPILE TO BE RESTORED
AREA = 252 SQ.FT.
NORTH
SCALE 1' = 20'
15 10 5 0 20
MAP 4D
040
Scale: 1" = 20'
Date: MAY 31, 2001
Drawn: JAKE'S
Checked: K CROFTS
COLEMAN PROPERTY
WETLAND IMPACT
SITE F MAP
I.M.E.
P.O. BOX 278 YAMPA, COLORADO 80483
970-638-4462



MAP 6
COLEMAN PROPERTY
POND DETAILS MAP

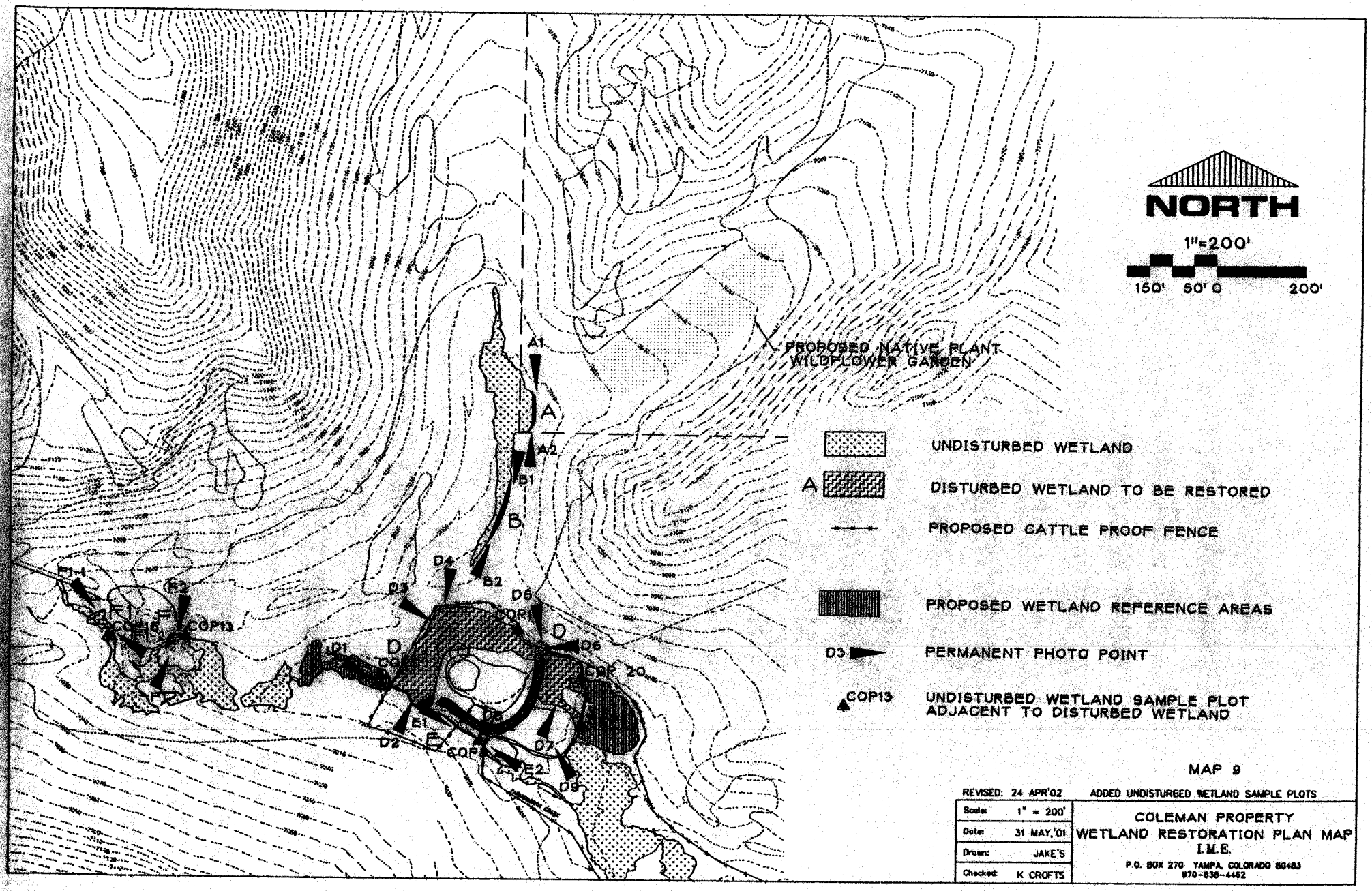
I.M.E.
P.O. BOX 270 YAMPA, COLORADO 80483
970-638-4462



MAP 8

Scale:	1" = 100'
Date:	MAY 31, '01
Drawn:	JAKE'S
Checked:	K CROFTS

COLEMAN PROPERTY
WETLAND MITIGATION PLAN MAP
I.M.E.
P.O. BOX 270 YAMPA, COLORADO 80483
970-638-4462

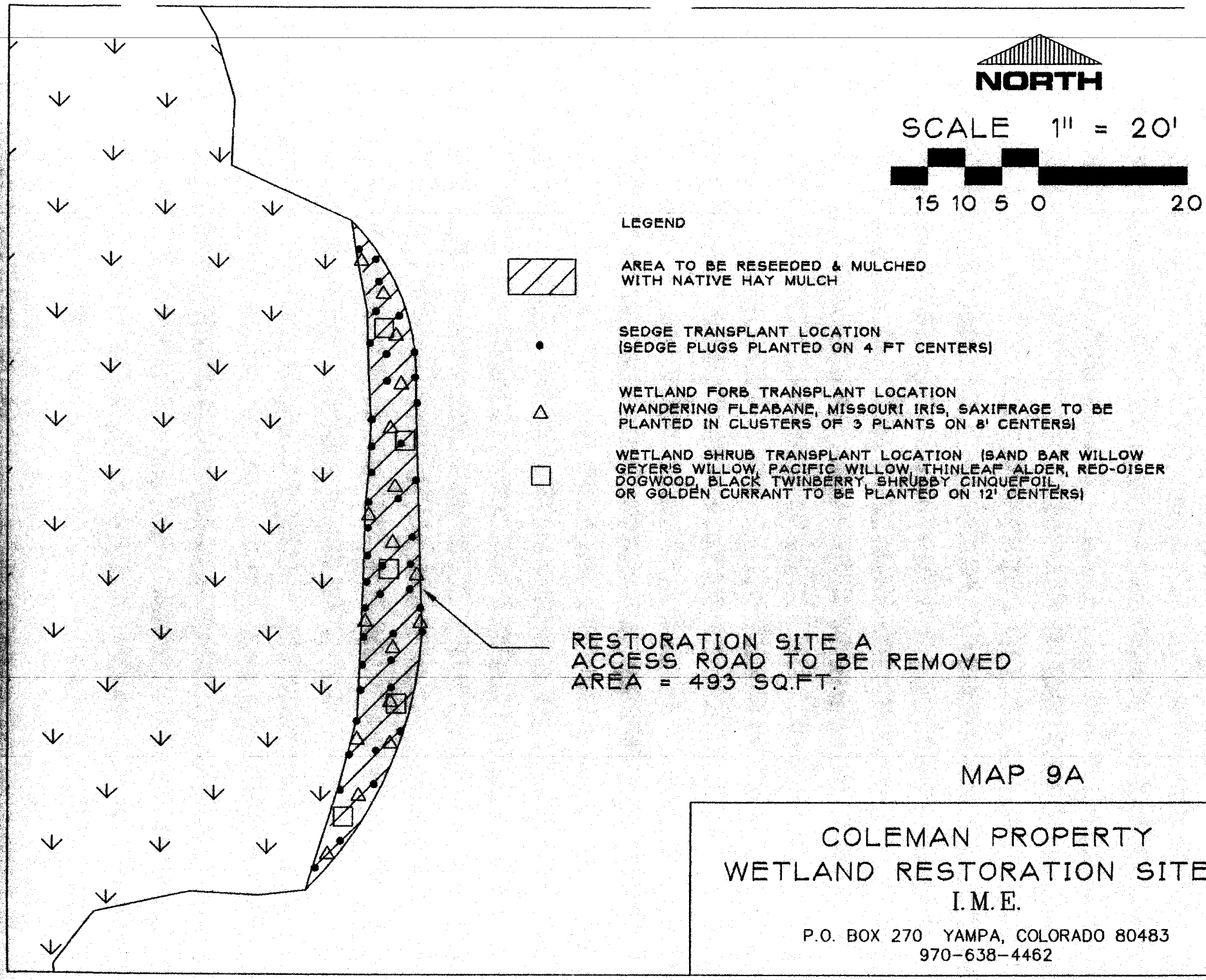


MAP 9

REVISED: 24 APR'02 ADDED UNDISTURBED WETLAND SAMPLE PLOTS

Scale:	1" = 200'
Date:	31 MAY,'01
Drawn:	JAKE'S
Checked:	K CROFTS

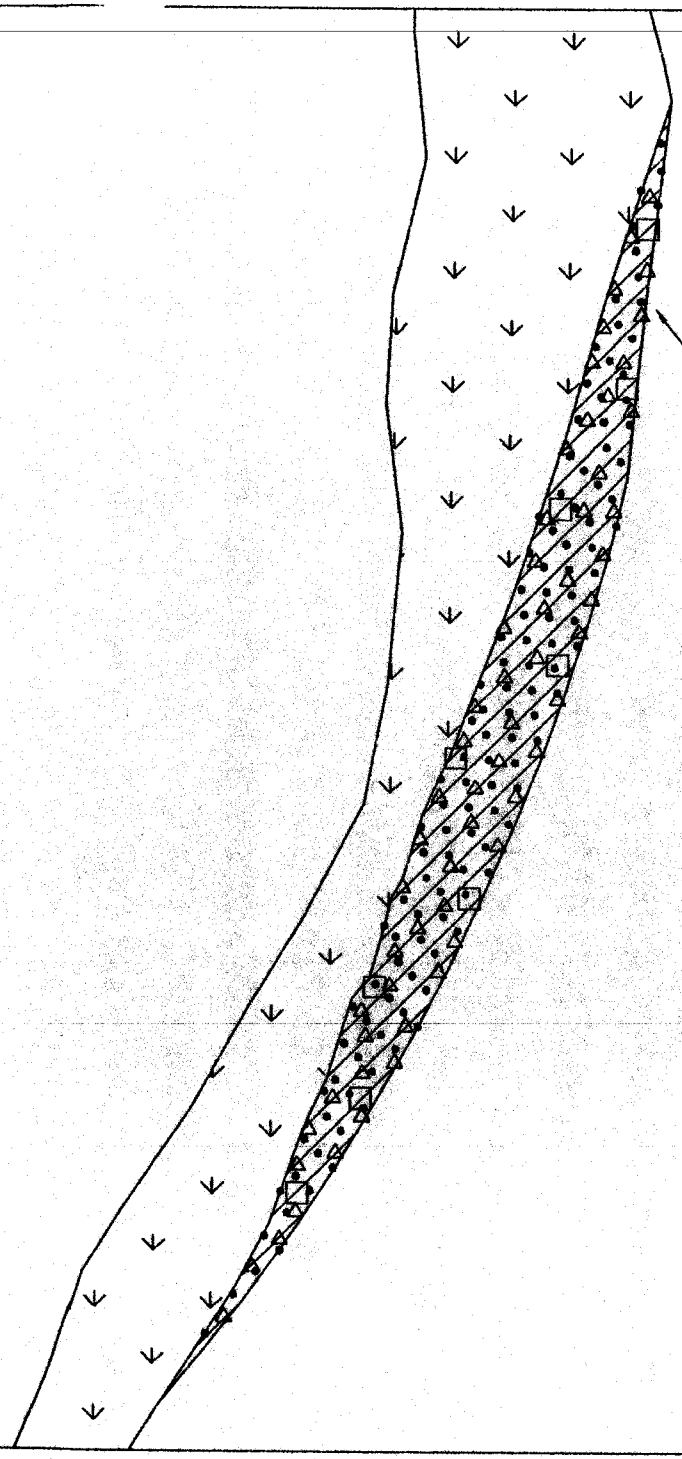
COLEMAN PROPERTY
WETLAND RESTORATION PLAN MAP
I.M.E.
P.O. BOX 270 YAMPA, COLORADO 80483
970-638-4462



MAP 9A

COLEMAN PROPERTY
WETLAND RESTORATION SITE A
I.M.E.

P.O. BOX 270 YAMPA, COLORADO 80483
970-638-4462



NORTH

SCALE 1" = 20'

15 10 5 0 20

RESTORATION SITE B
ACCESS ROAD TO BE REMOVED
AREA = 1,128 SQ.FT.

LEGEND

AREA TO BE RESEEDED & MULCHED WITH NATIVE HAY MULCH

SEDGE TRANSPLANT LOCATION (SEDGE PLUGS PLANTED ON 4' CENTERS)

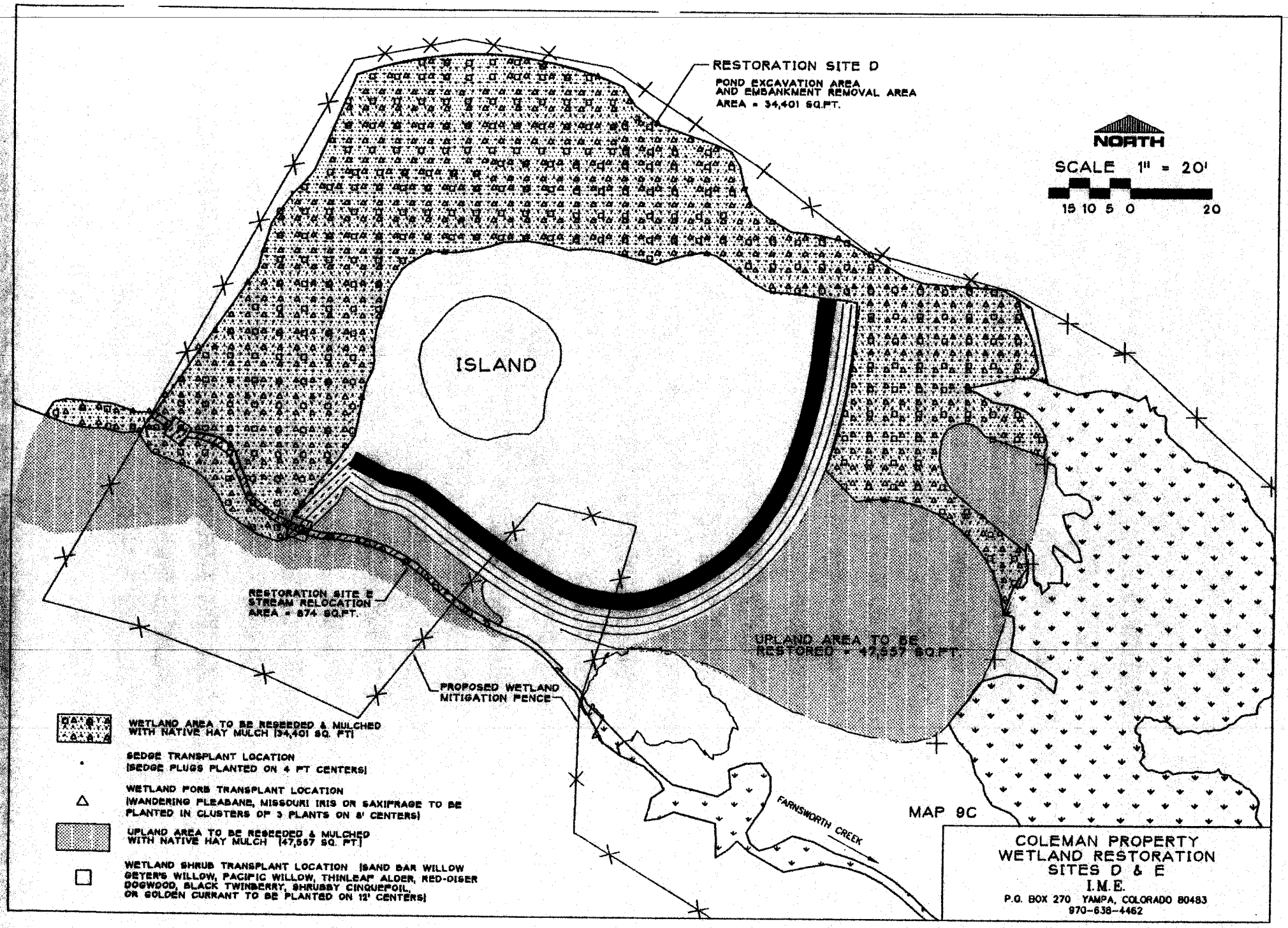
WETLAND FORB TRANSPLANT LOCATION (WANDERING FLEABANE, MISSOURI IRIS OR SAXIFRAGE TO BE PLANTED IN CLUSTERS OF 3 PLANTS ON 8' CENTERS)

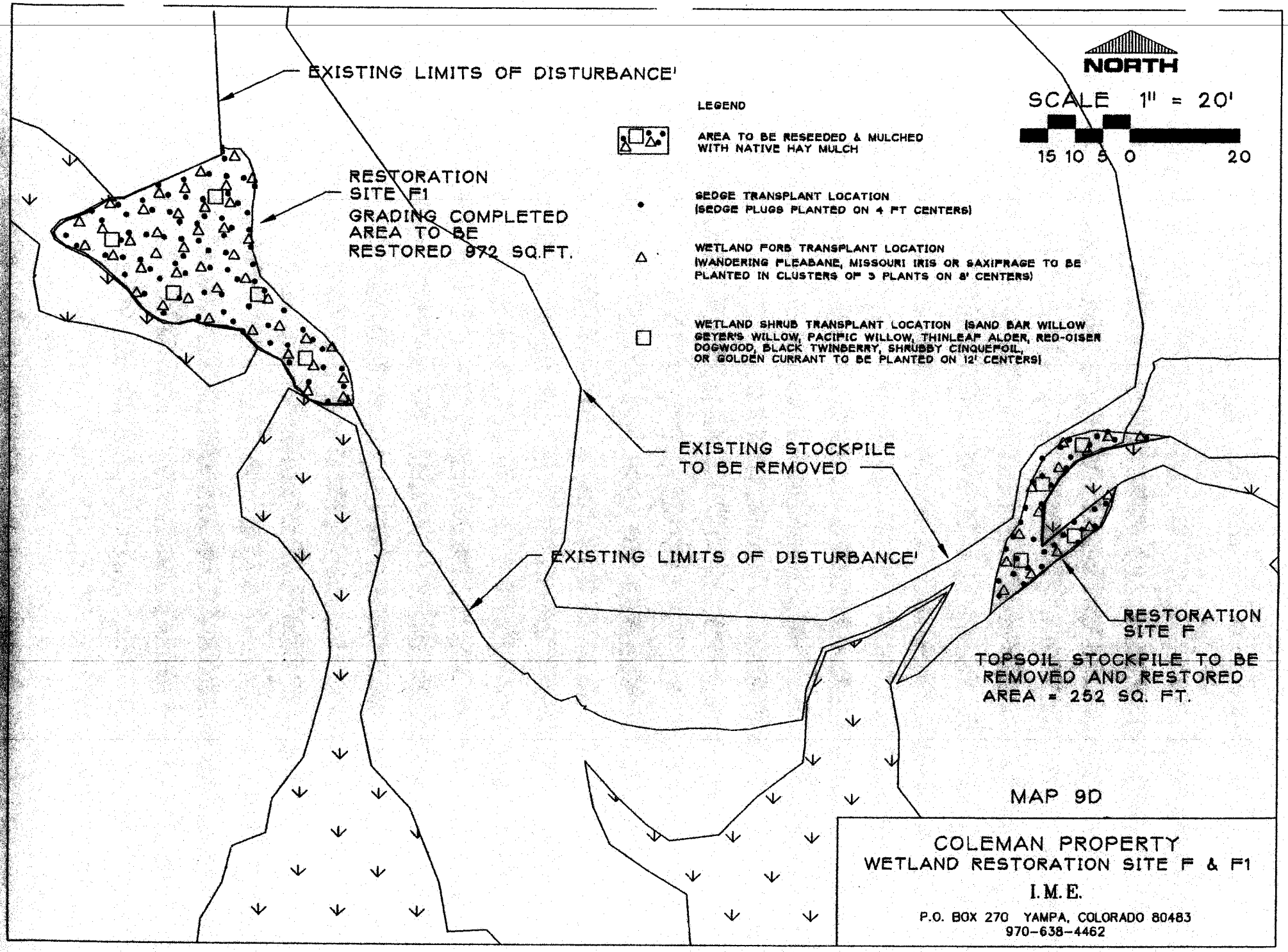
WETLAND SHRUB TRANSPLANT LOCATION (SAND BAR WILLOW GEYER'S WILLOW, PACIFIC WILLOW, THINLEAF ALDER, RED-OISER DOGWOOD, BLACK TWINBERRY, SHRUBBY CINQUEFOIL, OR GOLDEN CURRANT TO BE PLANTED ON 12' CENTERS)

MAP 9B

COLEMAN PROPERTY
WETLAND RESTORATION SITE B
I.M.E.

P.O. BOX 270 YAMPA, COLORADO 80483
970-638-4462


RESTORATION SITE D
POND EXCAVATION AREA
AND EMBANKMENT REMOVAL AREA
AREA = 34,401 SQ.FT.
NORTH
SCALE 1" = 20'
15 10 5 0 20
ISLAND
RESTORATION SITE E
STREAM RELOCATION
AREA = 874 SQ.FT.
UPLAND AREA TO BE
RESTORED = 47,557 SQ.FT.
PROPOSED WETLAND
MITIGATION FENCE
FARNSWORTH CREEK
WETLAND AREA TO BE RESEEDED & MULCHED
WITH NATIVE HAY MULCH (34,401 SQ. FT)
SEDGE TRANSPLANT LOCATION
(SEDGE PLUGS PLANTED ON 4 FT CENTERS)
WETLAND FORB TRANSPLANT LOCATION
(WANDERING FLEABANE, MISSOURI IRIS OR SAXIFRAGE TO BE
PLANTED IN CLUSTERS OF 3 PLANTS ON 8' CENTERS)
UPLAND AREA TO BE RESEEDED & MULCHED
WITH NATIVE HAY MULCH (47,557 SQ. FT)
WETLAND SHRUB TRANSPLANT LOCATION (SAND BAR WILLOW
GEYER'S WILLOW, PACIFIC WILLOW, THINLEAF ALDER, RED-OISER
DOGWOOD, BLACK TWINBERRY, SHRUBBY CINQUEFOIL,
OR GOLDEN CURRANT TO BE PLANTED ON 12' CENTERS)
MAP 9C
COLEMAN PROPERTY
WETLAND RESTORATION
SITES D & E
I.M.E.
P.O. BOX 270 YAMPA, COLORADO 80483
970-638-4462


EXISTING LIMITS OF DISTURBANCE'
NORTH
SCALE 1" = 20'
15 10 5 0 20
LEGEND
AREA TO BE RESEEDED & MULCHED WITH NATIVE HAY MULCH
SEDGE TRANSPLANT LOCATION (SEDGE PLUGS PLANTED ON 4 FT CENTERS)
WETLAND FORB TRANSPLANT LOCATION (WANDERING FLEABANE, MISSOURI IRIS OR SAXIFRAGE TO BE PLANTED IN CLUSTERS OF 3 PLANTS ON 8' CENTERS)
WETLAND SHRUB TRANSPLANT LOCATION (SAND BAR WILLOW GEYER'S WILLOW, PACIFIC WILLOW, THINLEAF ALDER, RED-OISER DOGWOOD, BLACK TWINBERRY, SHRUBBY CINQUEFOIL, OR GOLDEN CURRANT TO BE PLANTED ON 12' CENTERS)
RESTORATION SITE F1
GRADING COMPLETED AREA TO BE RESTORED 972 SQ.FT.
EXISTING STOCKPILE TO BE REMOVED
EXISTING LIMITS OF DISTURBANCE'
RESTORATION SITE F
TOPSOIL STOCKPILE TO BE REMOVED AND RESTORED AREA = 252 SQ. FT.
MAP 9D
COLEMAN PROPERTY
WETLAND RESTORATION SITE F & F1
I.M.E.
P.O. BOX 270 YAMPA, COLORADO 80483
970-638-4462

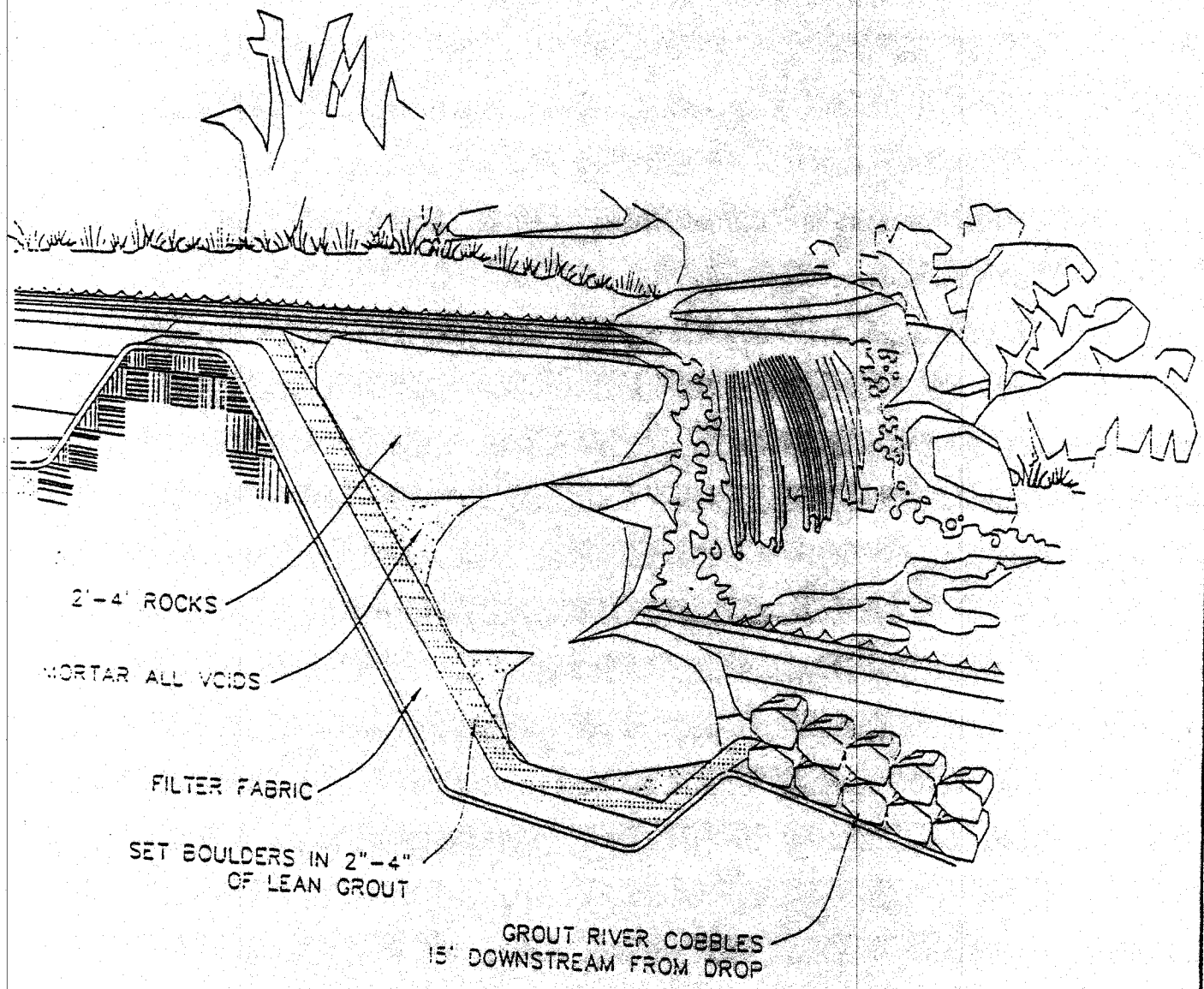


FIGURE 1,

DETAIL (A)

FREEFALL WATERFALL/DROP STRUCTURE

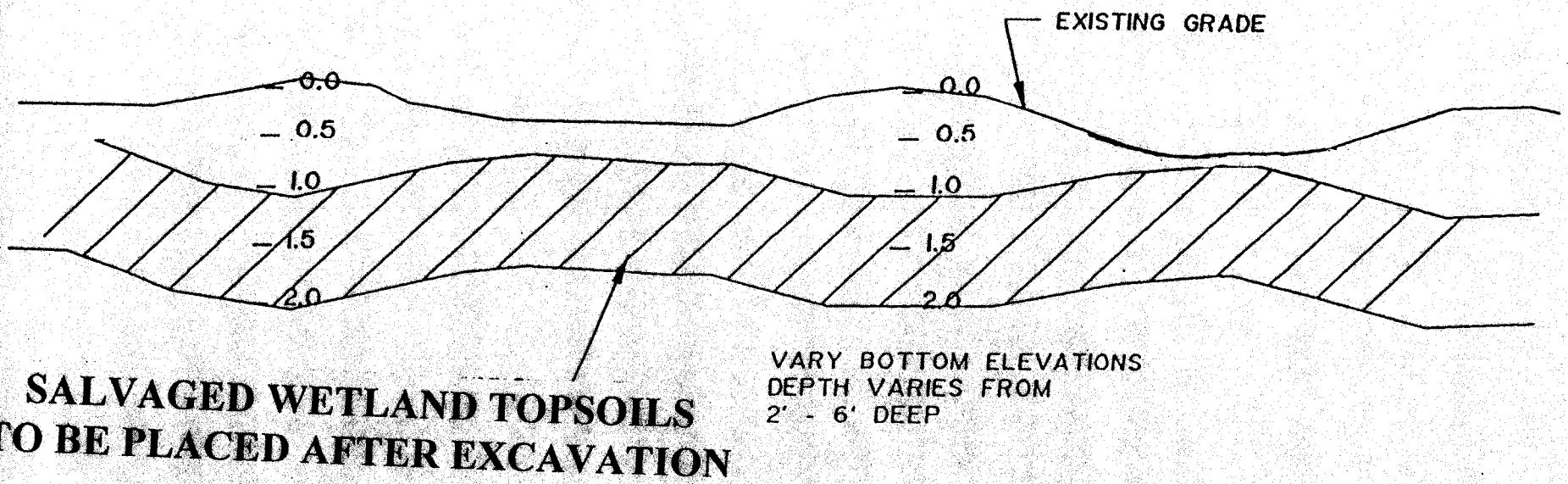
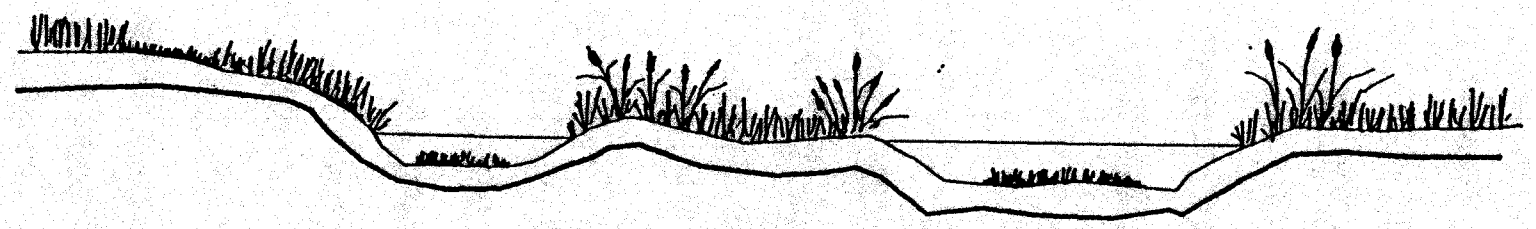


FIGURE 11,

Project:	
Date:	APRIL 4 '94
Drawn:	JAKE'S
Checked:	K CROFTS
Scale:	N.T.S.

TYPICAL WETLAND MITIGATION EXCAVATION CROSS SECTION

I.M.E.
P.O. BOX 270 YAMPA, COLORADO 80483
303-638-4462



THE MAJORITY OF THE WETLANDS SHOULD HAVE LESS THAN 15 FEET OF STANDING WATER. IN THE BOTTOM OF THE EXCAVATED AREA SHALLOW SCALLOPS SHALL BE CONSTRUCTED TO PROMOTE EMERGENT GRASSES, RUSHES, AND SEDGES.

WETLAND SOILS REMOVED FROM OTHER AREAS SHALL BE PLACED IN AREAS OF SHALLOW EXCAVATION TO PROMOTE REGROWTH.

FIGURE 12,

WETLANDS CONCEPT SKETCH

ject:	
te:	APRIL 4 '94
wn:	JAKE'S
cked:	K CROFTS
le:	N.T.S.

I.M.E.
P.O. BOX 270 YAMPA, COLORADO 80483
303-638-4462

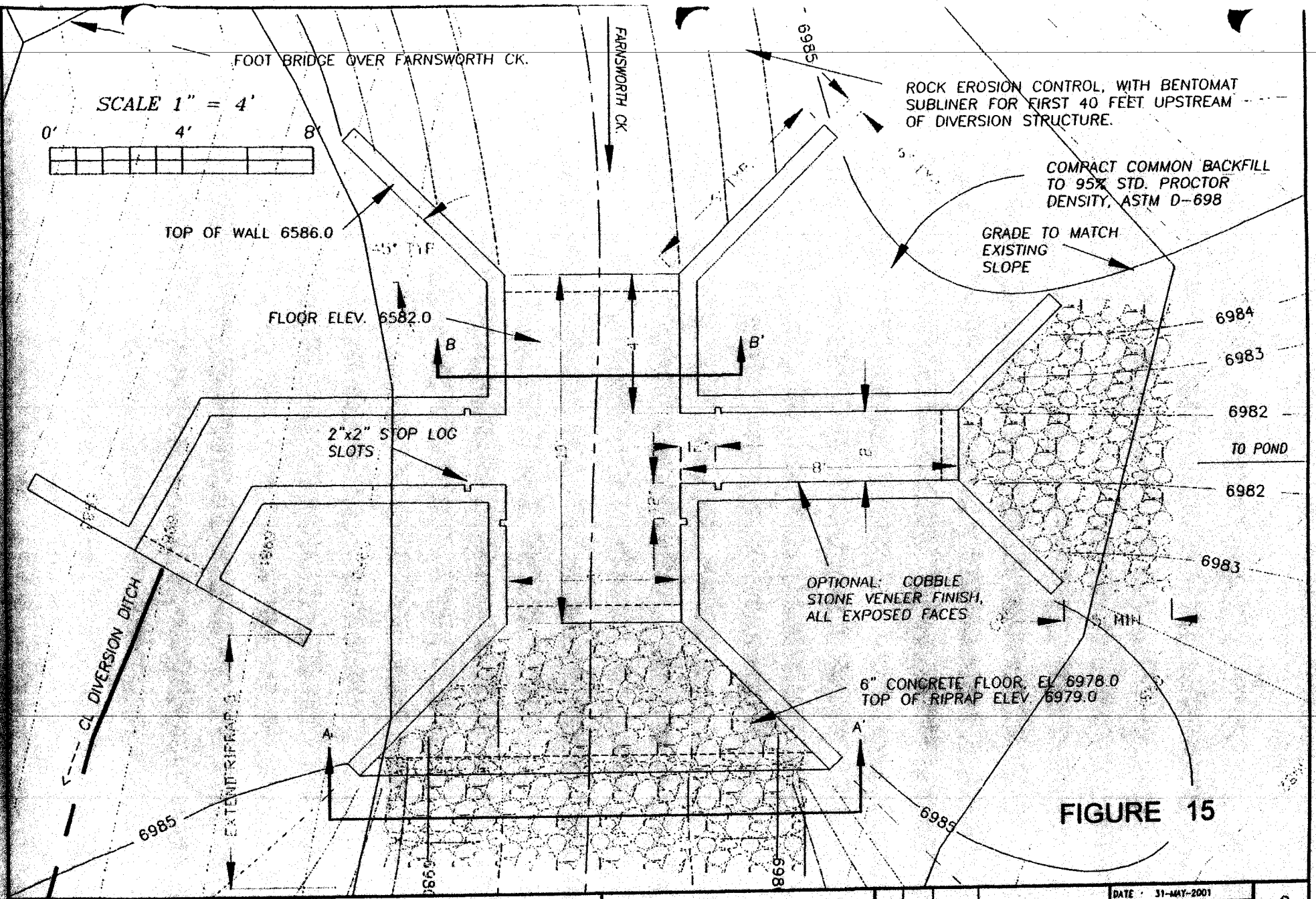


FIGURE 15

WATER RESOURCE CONSULTANTS, LLC
244 Hutton Ave. Rifle, CO 81650
(970) 625-5433

COLEMAN PROPERTY
ROUTT COUNTY,
COLORADO

DIVERSION STRUCTURE
PLAN VIEW

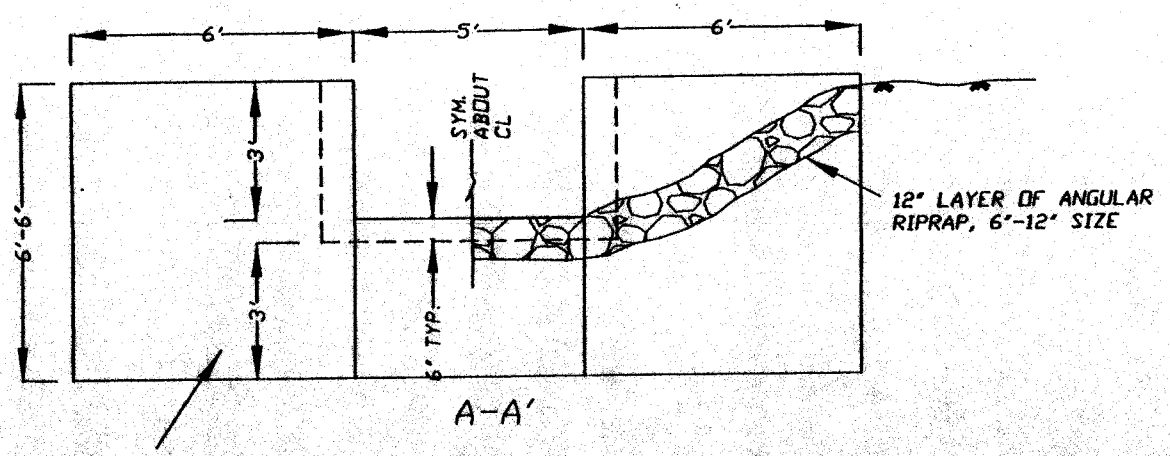
NO	BY	DATE	REVISIONS

DATE	31-MAY-2001
FILE	235-1.0
DWG	235-DETAILS.DWG
BY	PCC
CHKD	PCC

2 OF 4

SCALE 1" = 4'

0' 4' 8'



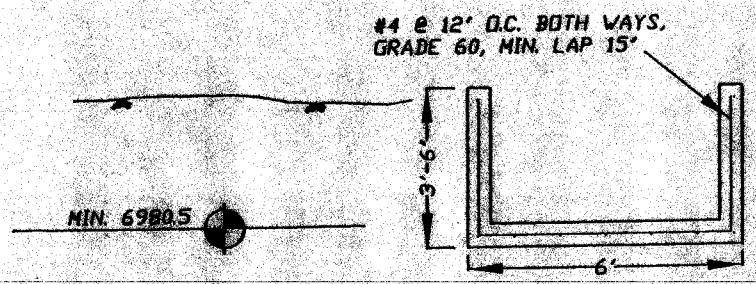
A-A'

EXTEND CUTOFF WALL MIN. 3' BELOW THALWEG OF CREEK AT UPSTREAM AND DOWN-STREAM ENDS OF BOX

NOTES

1) CONCRETE: MIN. 3000 PSI SULFATE RESISTANT

2) CHAMFER ALL EXPOSED EDGES 1/2"



B-B'

FIGURE 16,

WATER RESOURCE CONSULTANTS, LLC 244 Hutton Ave. • Rifle, CO 81650 (970) 625-5433	COLEMAN POND ROUTT COUNTY, COLORADO	INLET STRUCTURE SECTION DETAILS	NO. / BY / DATE / REVISIONS	DATE : 05-OCT-2000 FILE : 233-1.0 DWG : 233-DETAILS.DWG BY : PCC CHKD : PCC	3 of 4