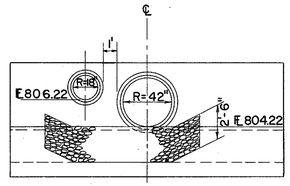
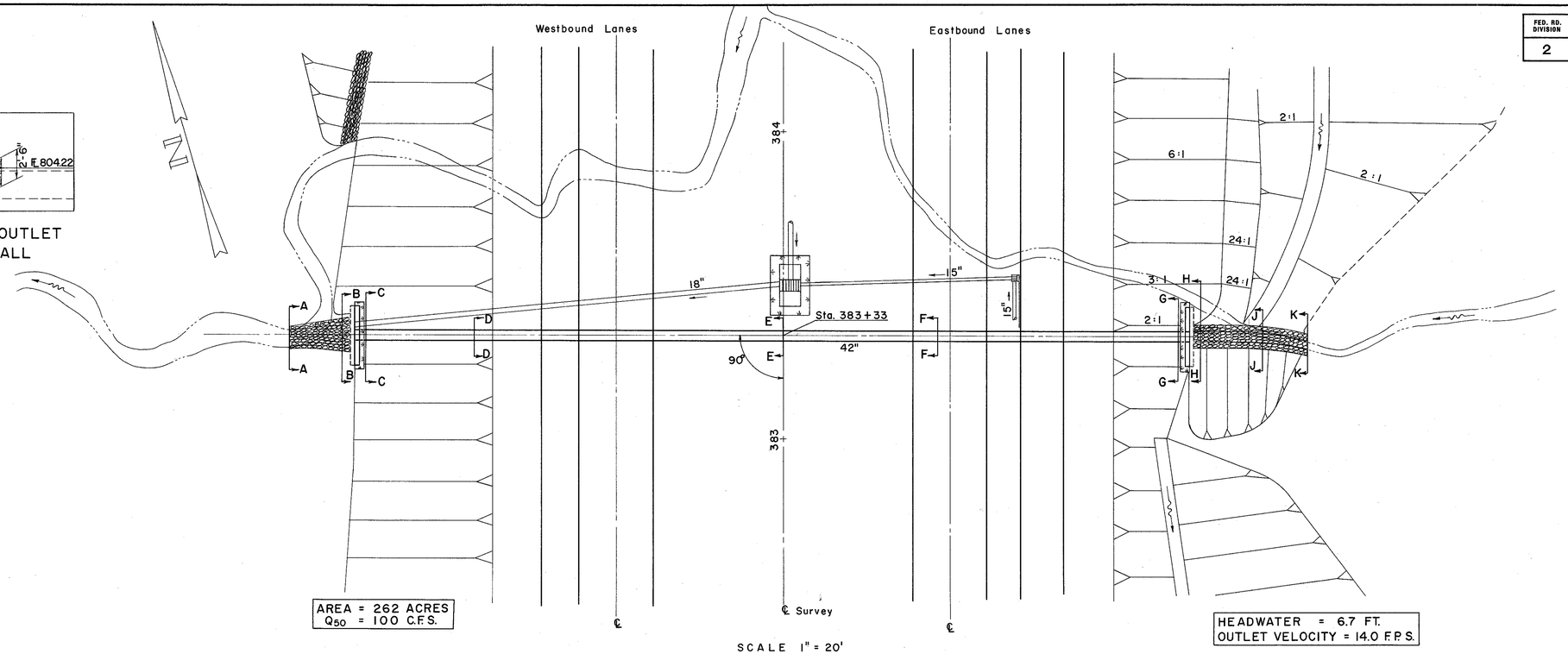
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	ACI-1103(21)	

394
488

LAKE COUNTY
LAK-1-12.89



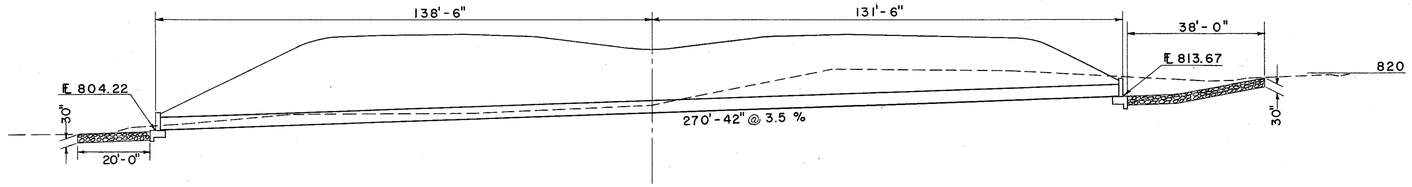
DETAIL SHOWING OUTLET
PIPE & HEADWALL
SCALE 1"=5'

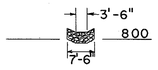


AREA = 262 ACRES
Q_{50} = 100 C.F.S.

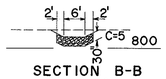
HEADWATER = 6.7 FT.
OUTLET VELOCITY = 14.0 F.P.S.

SCALE 1" = 20'

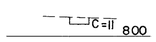




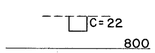
SECTION A-A
Sta. 11+60



SECTION B-B
Sta. 11+43
Channel Exc.



SECTION C-C
Sta. 11+35
Culvert Exc.



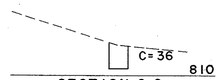
SECTION D-D
Sta. 11+00

ESTIMATED QUANTITIES

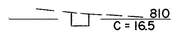
E-2	Excavation for Structures	360.0	C.Y.
I-10	Dumped Rock Channel Protection	42.6	C.Y.
S-1	Concrete for Structures Class "C"	22.0	C.Y.
S-27	42" Pipe for Roadway Culverts	270.0	L.F.
L-10	Sodding	9.0	S.Y.
S-4	Reinforcing Steel	940.0	Lbs.
E-3	Channel Excavation	114.4	C.Y.

CULVERT DATA

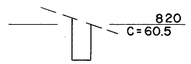
TYPE: Pipe Culvert S-27 M-6.4 (d) Type "C" Headwalls
SIZE: 42" x 270'
WORK REQUIRED: Build a Pipe Culvert with Type "C" Headwalls. Excavate Channel Lt. & Rt. Place Dumped Rock Lt. & Rt Shown.



SECTION G-G
Sta. 8+72
Culvert Exc.

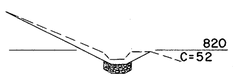


SECTION E-E
Sta. 10+00
Culvert Exc.

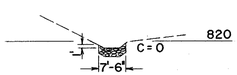


SECTION F-F
Sta. 9+50
Culvert Exc.

SECTION H-H
Sta. 8+68
Channel Exc.



SECTION J-J
Sta. 8+45
Channel Exc.



SECTION K-K
Sta. 8+30
Channel Exc.

STRUCTURE NO. LAK-1-1397

PIPE CULVERT STA. 383+33