FPC 2284 Brunswick, Me.
hydro

Regional Engineer, Newton, Mass. 5/2 April 27, 1977

Don Rizzo, Hydraulic Engineer
Newton, Mass.

April 7, 1977 Meeting with CMPCo and Maine Fishery Agencies regarding proposed fishway at CMPCo Brunswick Project on Androscoggin River - Brunswick, Maine

On April 7, 1977, I attended a meeting at the Central Maine Power Company (CMPCo) in Augusta, Maine, to review with State Fishery Agencies the conceptual design of fish passage facilities proposed at the CMPCo Brunswick Hydro-Power Project on the Androscoggin River, in Brunswick, Maine.

Other attendees were as follows:

CMPCo	Maine
Ralph Bean	Al Meister, Sea Run Salmon Commission
Gerald Poulin	Lynn Bond, Department of Inland Fisheries
Val Thompson	Lew Flagg, Department of Marine Resources

For the benefit of the Maine Fishery Agencies, I reviewed the pertinent features of the fish passage facilities we proposed at the subject project. (See attached conceptual plan). These facilities include:

1. A vertical-slot type fishway constructed adjacent to the proposed powerhouse. (8'-6" wide X 10' long fishway pools X 40' lift). The fishway is designed to pass a run of 85,000 American shad and 1 million alewives.

2. A side-view fish counting and trapping facility is included at the upstream end of the fishway. This facility can trap fish species selectively, or trap the entire run.

3. 70 cfs attraction water will be piped from the headpond through flow diffusion chambers into the fishway, where it combines with the 30 cfs ± flowing through the fishway to provide a total of 100 cfs ± attraction water at the fishway entrance.

4. The existing timber crib spillway under the Route 201 Bridge will be lowered approximately 4' to crest elevation 14. This structure will serve as a fish barrier dam to keep upstream migrants from entering the spillway area during periods of spillway discharge. A fish barrier wall at crest elevation 20 is also required between the main spillway and the powerhouse.

5. A floating downstream migrant fish-screen and trash boom are also provided at the powerhouse intake for future installation if turbine mortality studies deem it necessary.

6. The fishway will operate for river flows up to 30,000 cfs. When flows exceed 30,000 cfs, a sluice gate, located at the fishway exit, will automatically close. This gate will open again when river flows fall below 30,000 cfs.

The State Fishery Agencies gave their informal concurrence with the proposed fish passage facilities. They indicated formal written approval would be forwarded to CMPCo upon receipt of a written request.

Lynn Bond's main concern was the introduction of carp and other rough fish to upstream habitat-via fishways. To control the rough fish problem, the Department of Marine Fisheries agreed to trap and sort these fish at the fishway. This will involve considerable man-power and fish handling.

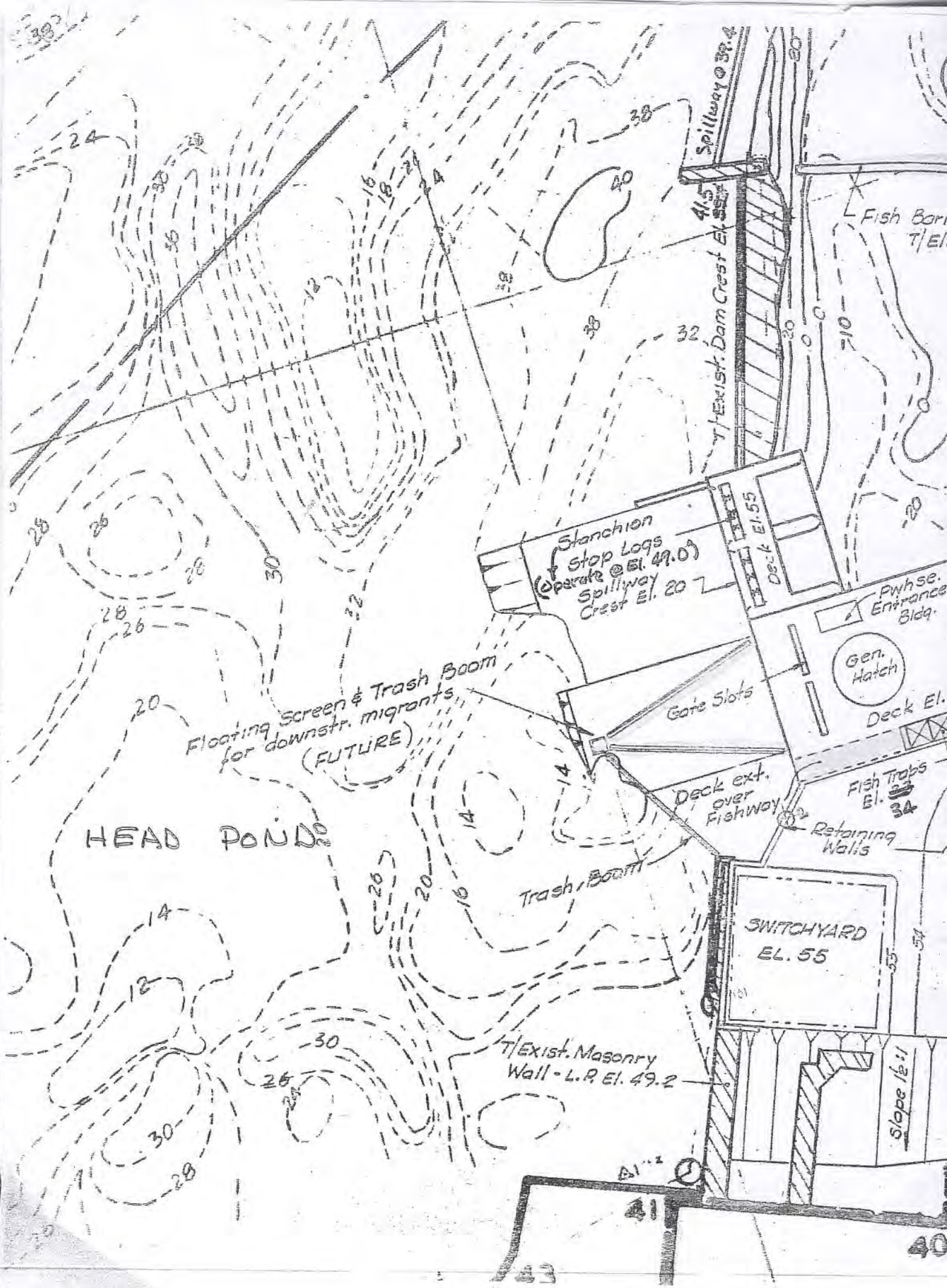
Al Meister indicated that due to the numerous upstream dams, the Androscoggin has a very low priority as far as Atlantic Salmon management; however, any salmon trapped at Brunswick will be held and utilized for artificial spawning.

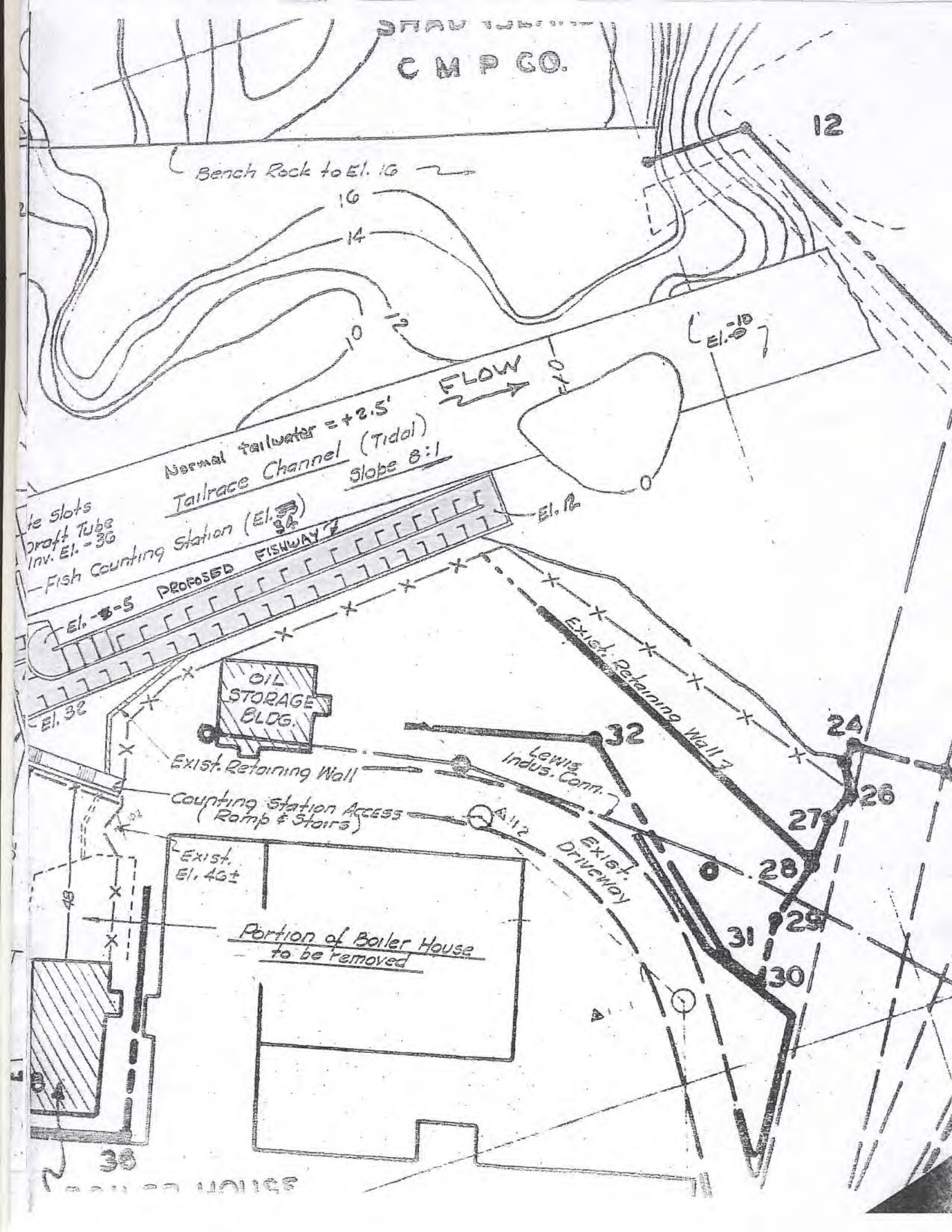
CMPCo is planning a public meeting regarding the proposed project, to be held in Brunswick, sometime in May 1977.

Attachment
as specified

BRizzo/sbd

CC: ABF
ARV
NEAO
NJ Patrik
B Rizzo
Charles A. Maloy - Concord, N.H.
Area Manager
Inspection & Trip Reports


HEAD POND
Floating Screen & Trash Boom for downstr. migrants (FUTURE)
Trash Boom
Stanchion Stop Logs (operate @ El. 49.0) Spillway Crest El. 20
Deck El. 55
Spillway @ 39.4
T/Exist. Dam Crest El. 41.5
Fish Bor
T/El
Pwhse. Entrance Bldg.
Gen. Hatch
Gate Slots
Deck El.
Deck ext. over Fishway
Fish Trabs El. 34
Retaining Walls
SWITCHYARD EL. 55
T/Exist. Masonry Wall - L.R El. 49.2
Slope 1/2:1
El. 41
40


C M P CO.
12
Bench Rock to El. 16
16
14
10
12
El. -10
FLOW
0
Normal tailwater = +2.5'
Tailrace Channel (Tidal)
Slope 8:1
te Slots
Draft Tube
Inv. El. -36
Fish Counting Station (El. 34)
El. -5
PROPOSED FISHWAY
El. 12
El. 32
OIL STORAGE BLDG.
Exist. Retaining Wall
Exist. Retaining Wall
Lewis Indus. Conn.
32
24
26
27
28
29
30
31
Counting Station Access (Ramp & Stairs)
4 1/2
Exist. Driveway
Exist. El. 46±
48
Portion of Boiler House to be removed
38