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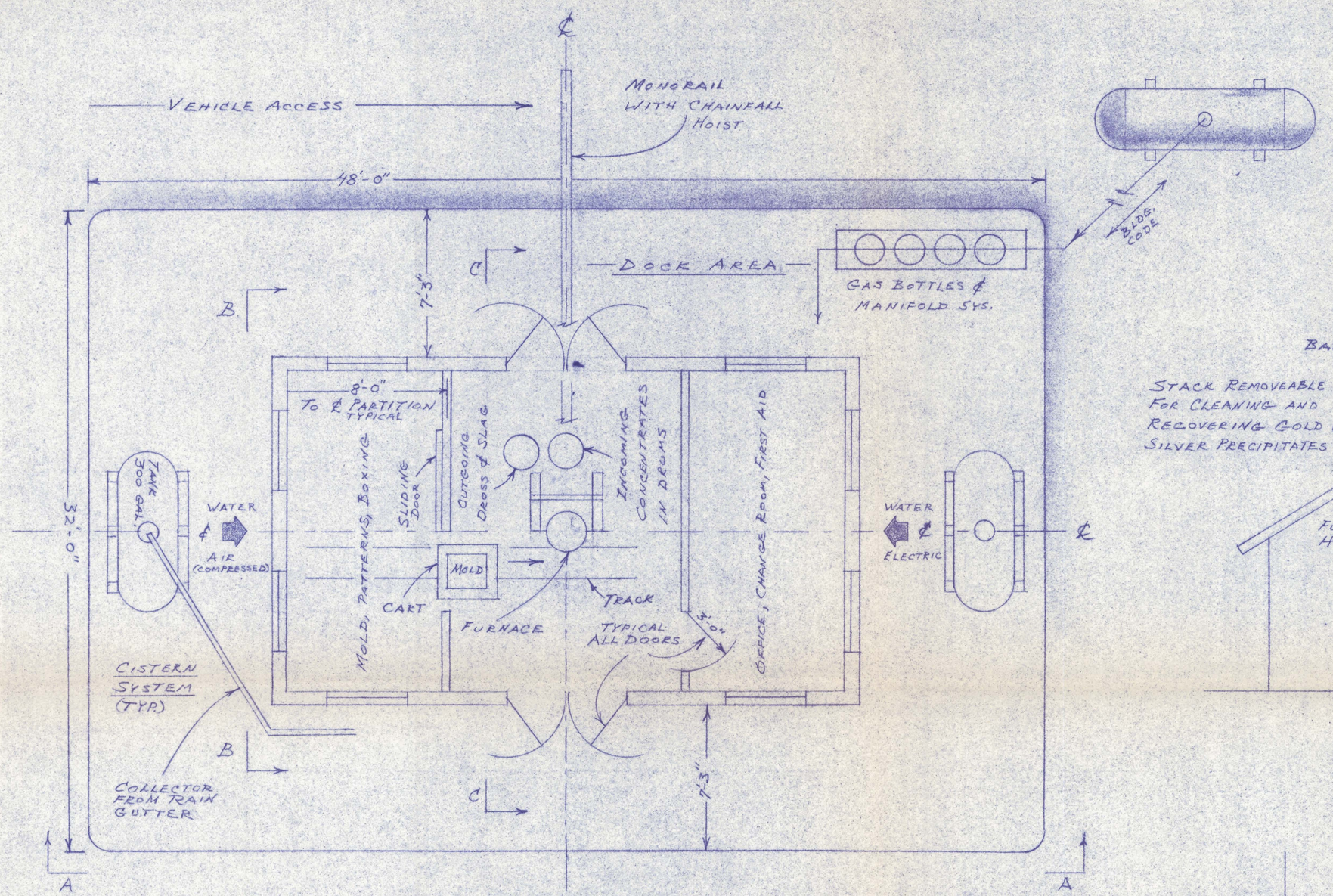

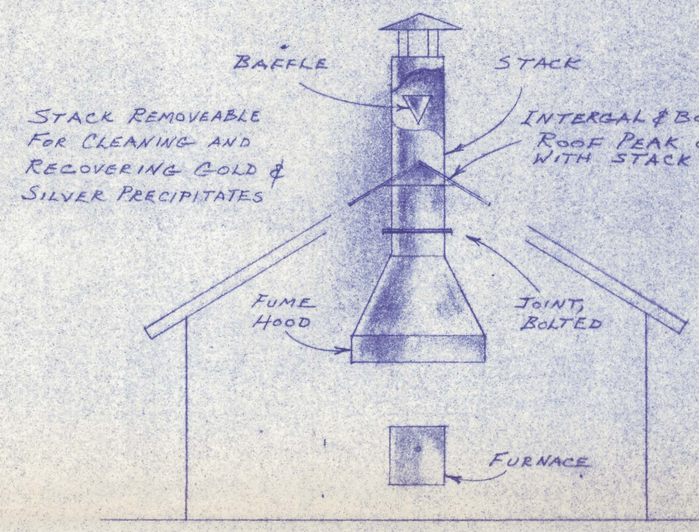

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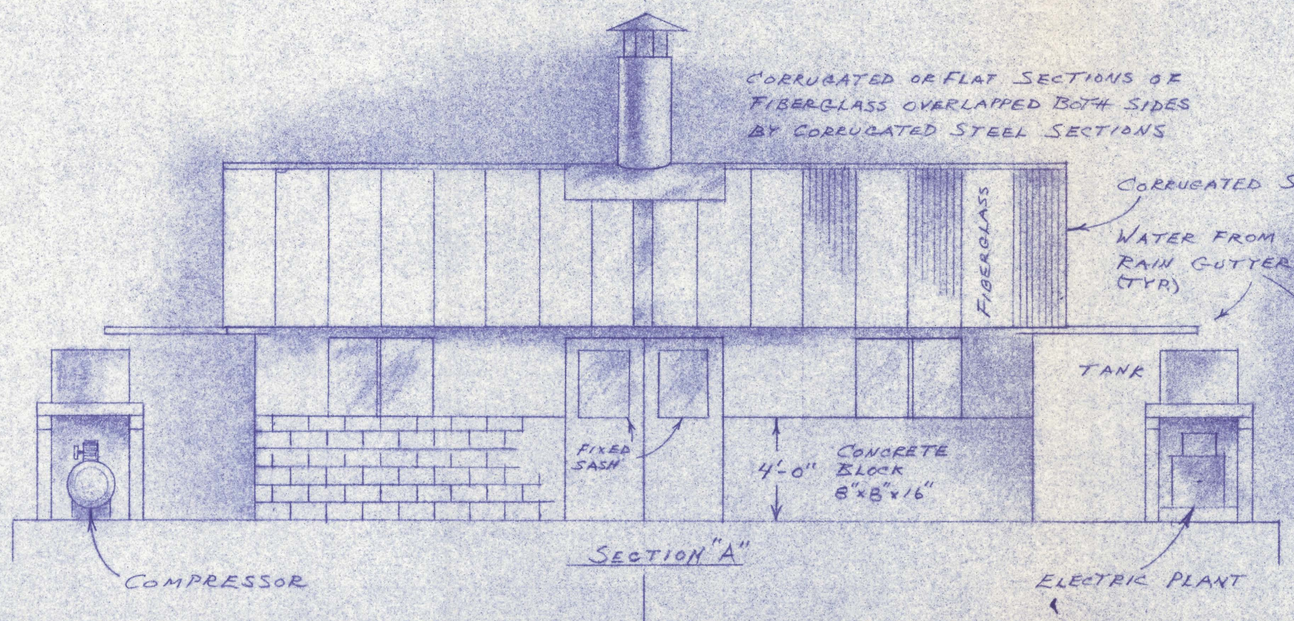

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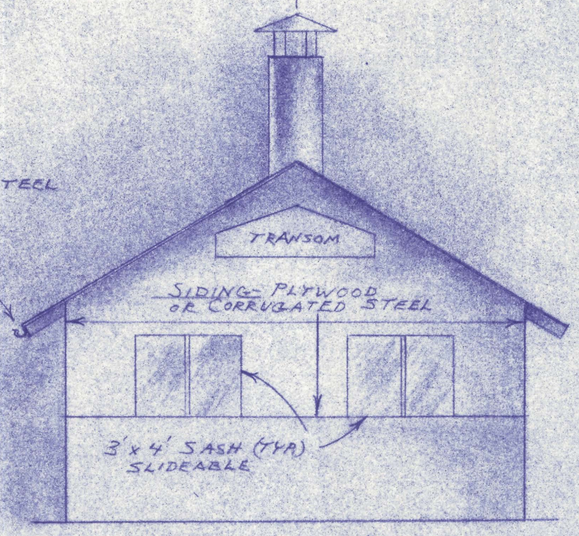


SECTION "B"

FOUNDRY SMELTER UNIT FOR GOLD-SILVER DORÉ ANODE BARS

SCALE - 1/4 INCH = 1 FOOT

APRIL 6, 1987

UNIT DUPLICATED AS REQUIRED TO INCREASE PRODUCTION CAPACITY

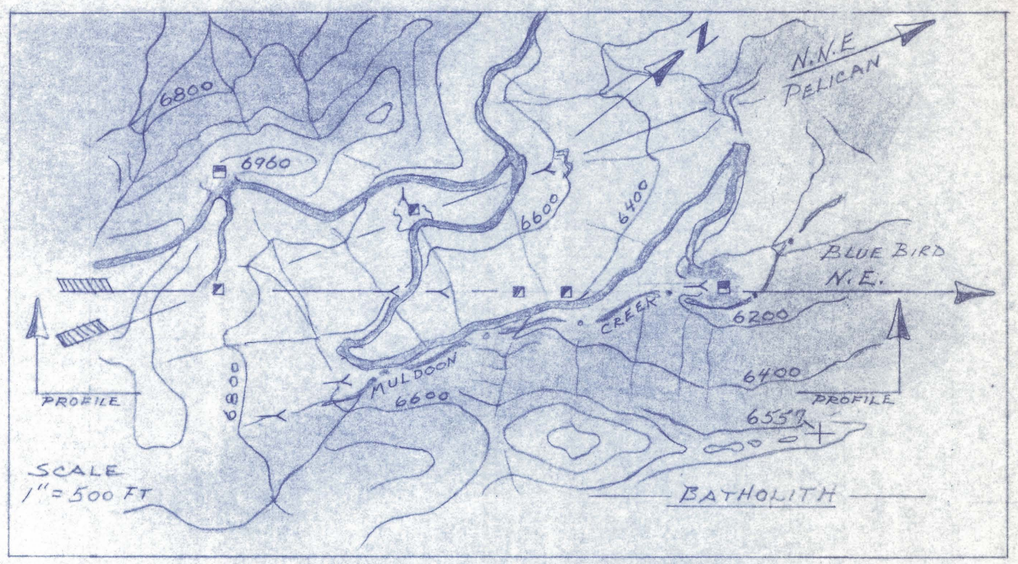
FACILITY LAYOUT & METHODS.

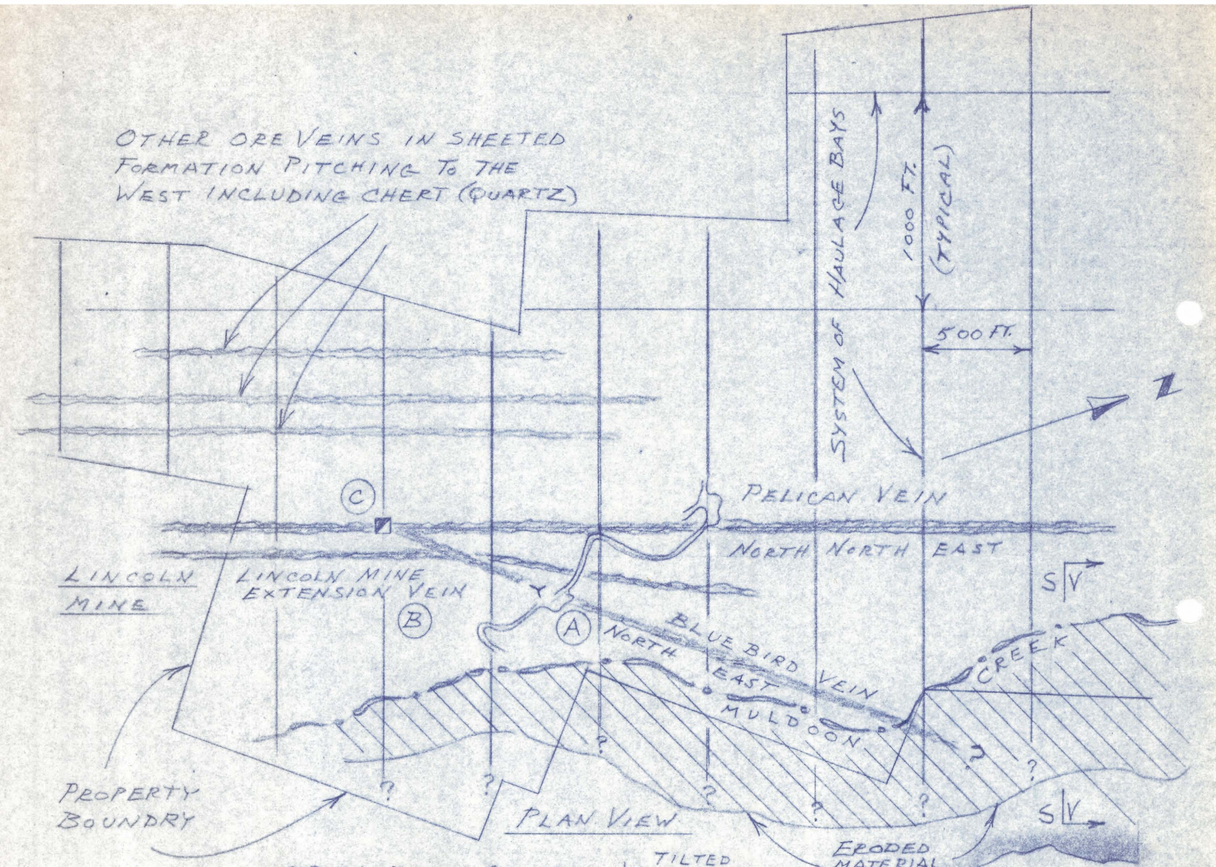
Hagerty Research & Development Co., Inc.
P. O. Box 2486
Prescott, Arizona 86302

SHEET No. 1 OF 2.

FIGURE 3

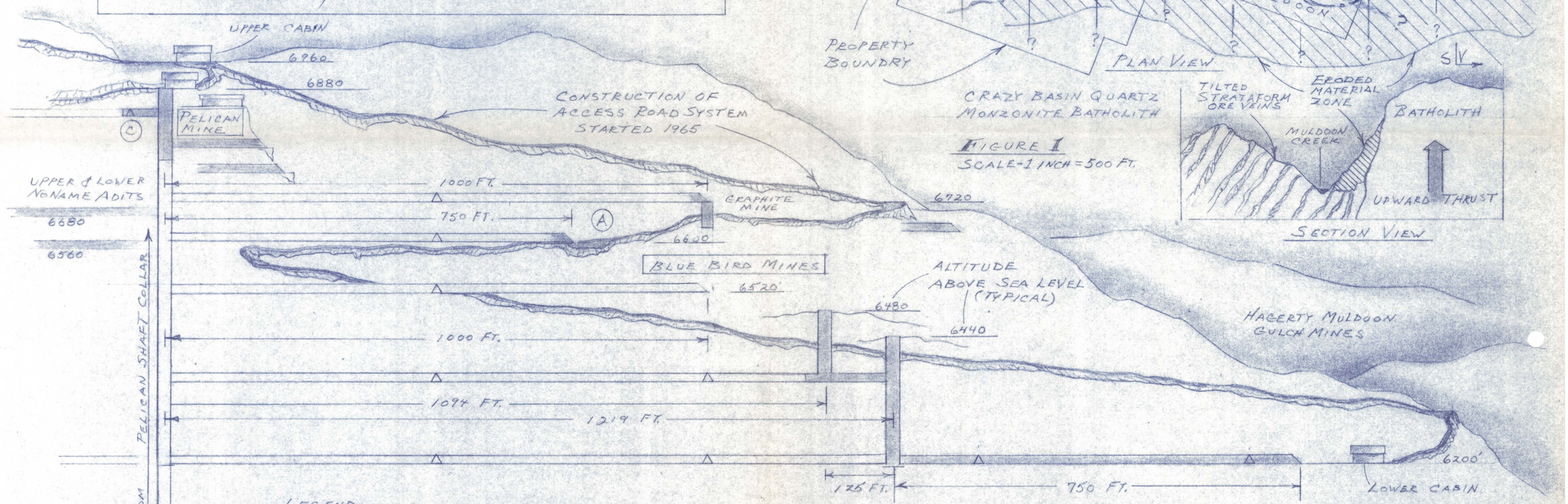
TOPOGRAPH





CRAZY BASIN QUARTZ
MONZONITE BATHOLITH

FIGURE 1
SCALE-1 INCH = 500 FT.



LEGEND
SHAFT
ADIT
CROSS CUT ON DRIFT
BUILDING
DRIFT
SCALE 1" = 125 FT., PROFILE VIEW

FIGURE 2

PROFILE VIEW

ALONG BLUE BIRD
STRIKE, NORTH EAST,
UNDERGROUND WORKINGS

HAGERTY CONSOLIDATED MINES

PROJECTED PLAN OF OPERATION

SHADED ZONES, DRIFTS & ADITS,
EXTENT OF MINING, 1987.

MINING TO COMMENCE AT (A),
FIGURES 1 AND 2.

Hagerty Research & Development Co., Inc.
P. O. Box 2486
Prescott, Arizona 86302

MARCH 10, 1987.

SIGNIFICANT GEOCHEMICAL ANOMALIES

HAGERTY PROPERTIES.

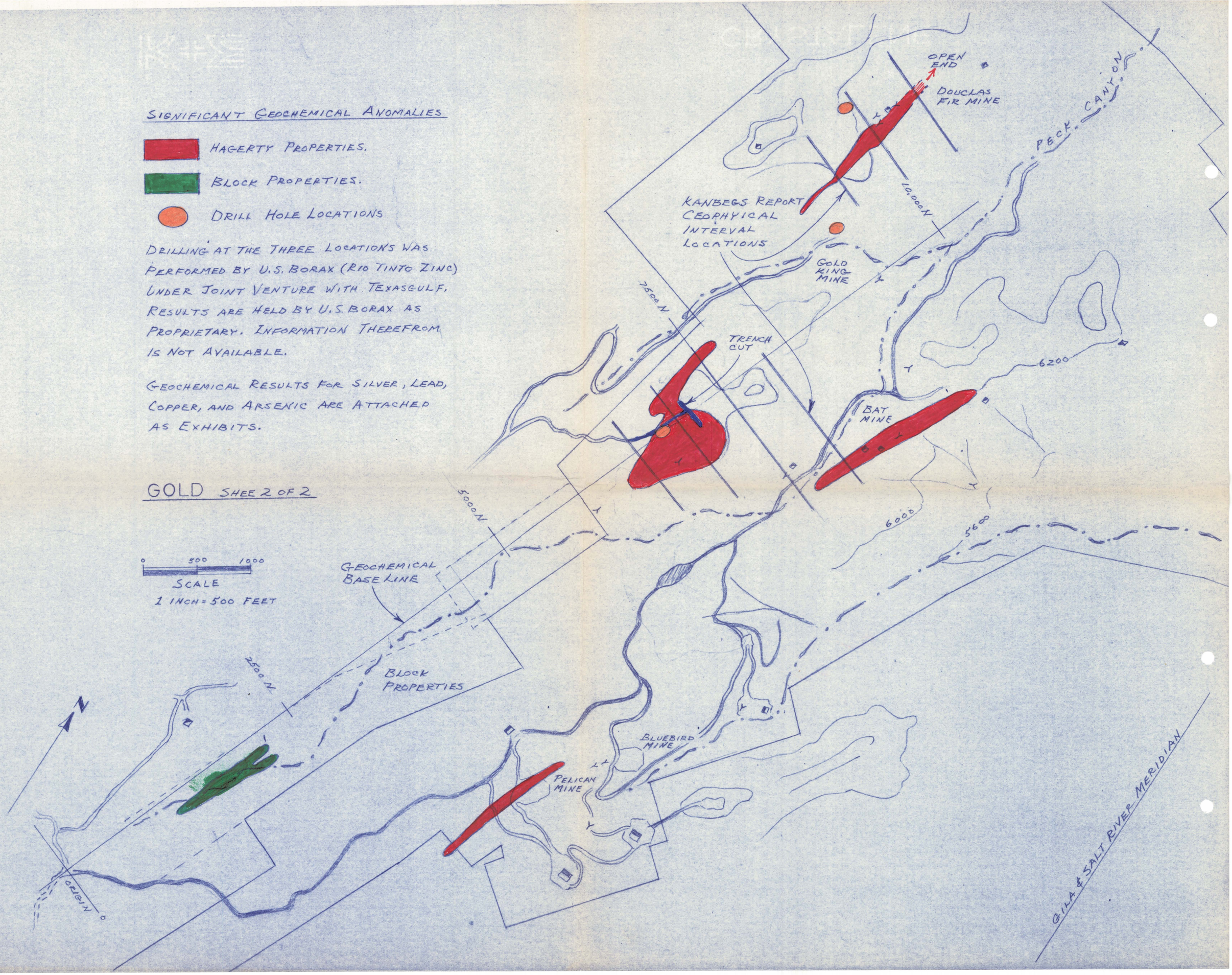
BLOCK PROPERTIES.

DRILL HOLE LOCATIONS

DRILLING AT THE THREE LOCATIONS WAS PERFORMED BY U.S. BORAX (RIO TINTO ZINC) UNDER JOINT VENTURE WITH TEXASGULF. RESULTS ARE HELD BY U.S. BORAX AS PROPRIETARY. INFORMATION THEREFROM IS NOT AVAILABLE.

GEOCHEMICAL RESULTS FOR SILVER, LEAD, COPPER, AND ARSENIC ARE ATTACHED AS EXHIBITS.

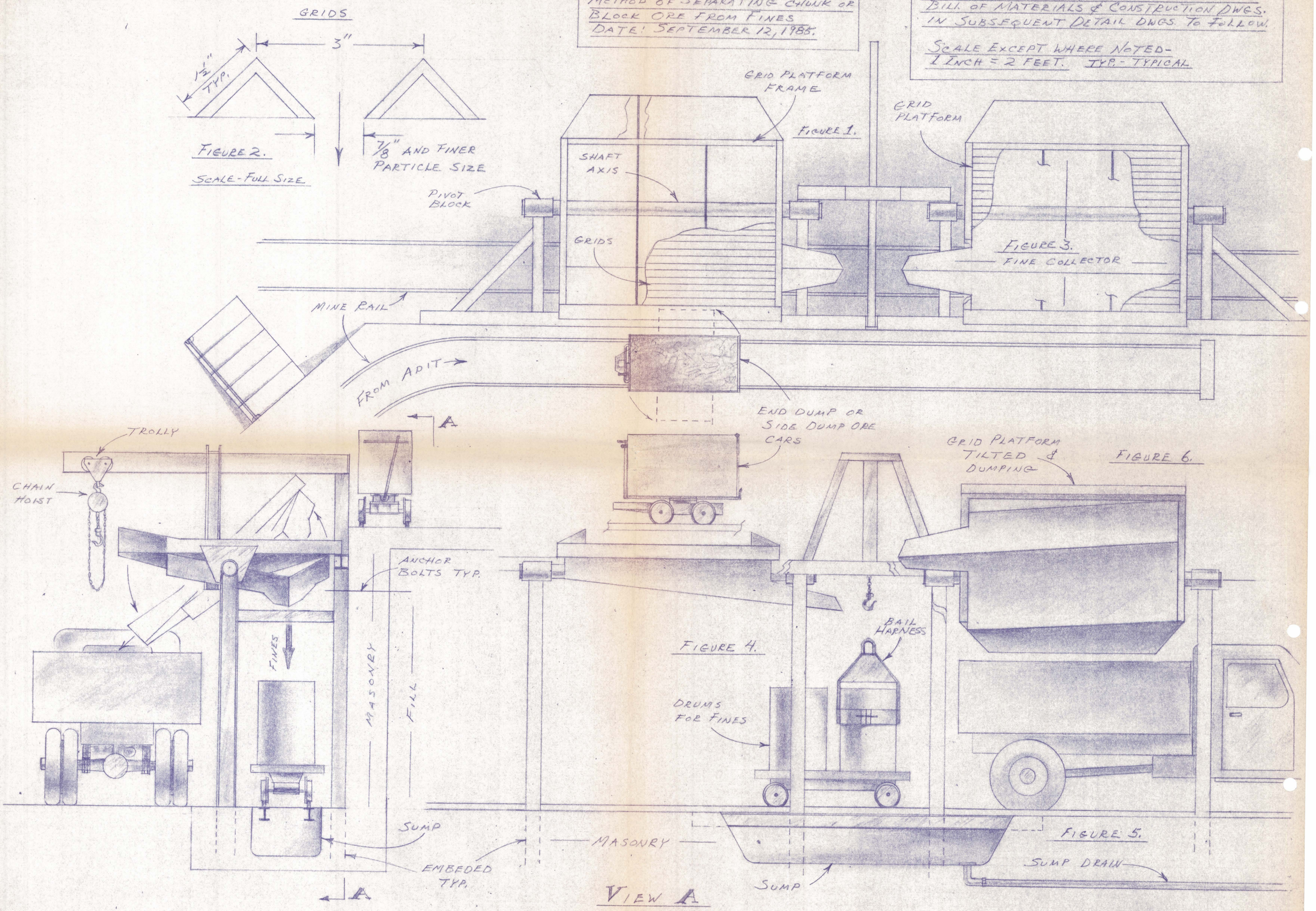
GOLD SHEE 2 OF 2

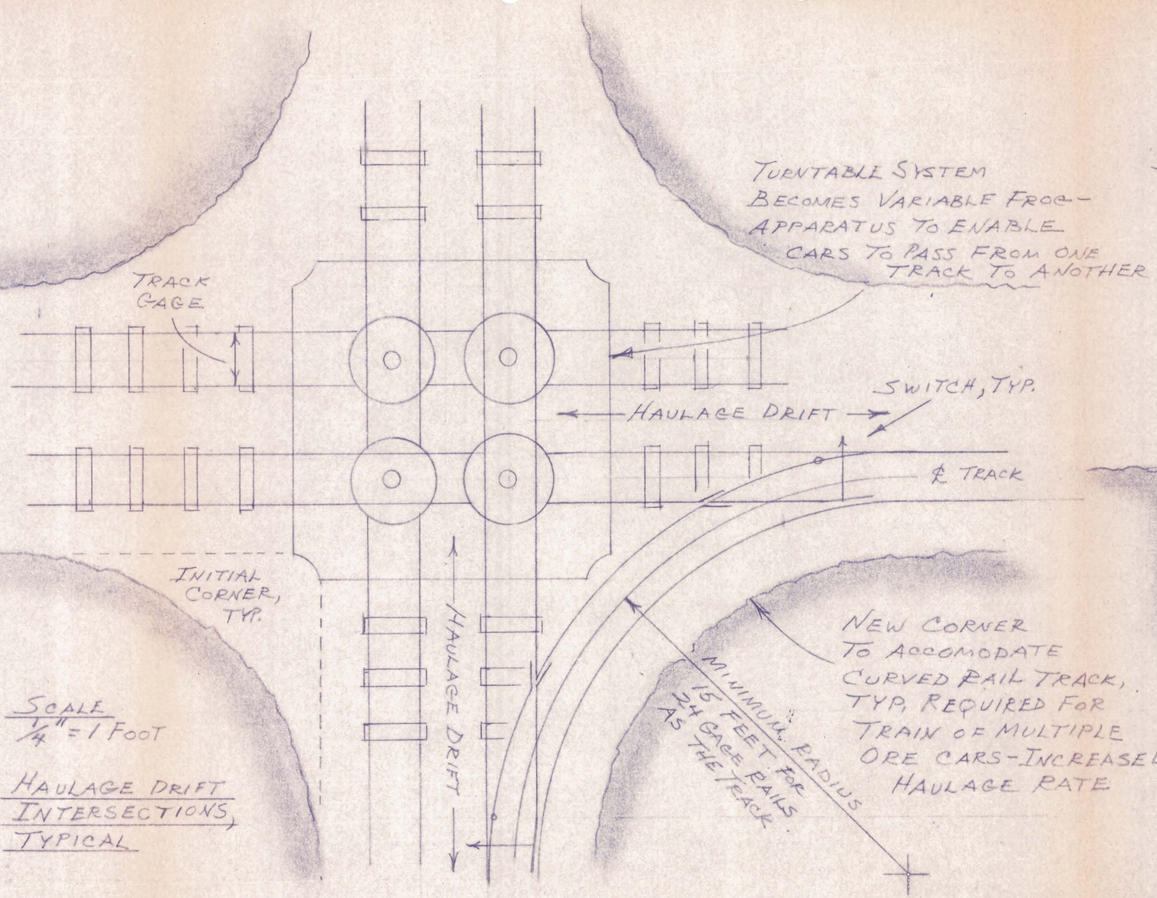


PELICAN & BLUE BIRD MINE
OPERATIONS AS ACTIVATED.
METHOD OF SEPARATING CHUNK OR BLOCK ORE FROM FINES
DATE: SEPTEMBER 12, 1985.

HAGERTY RESEARCH & DEVELOPMENT CO. INC.
BILL OF MATERIALS & CONSTRUCTION DWGS.
IN SUBSEQUENT DETAIL DWGS. TO FOLLOW.

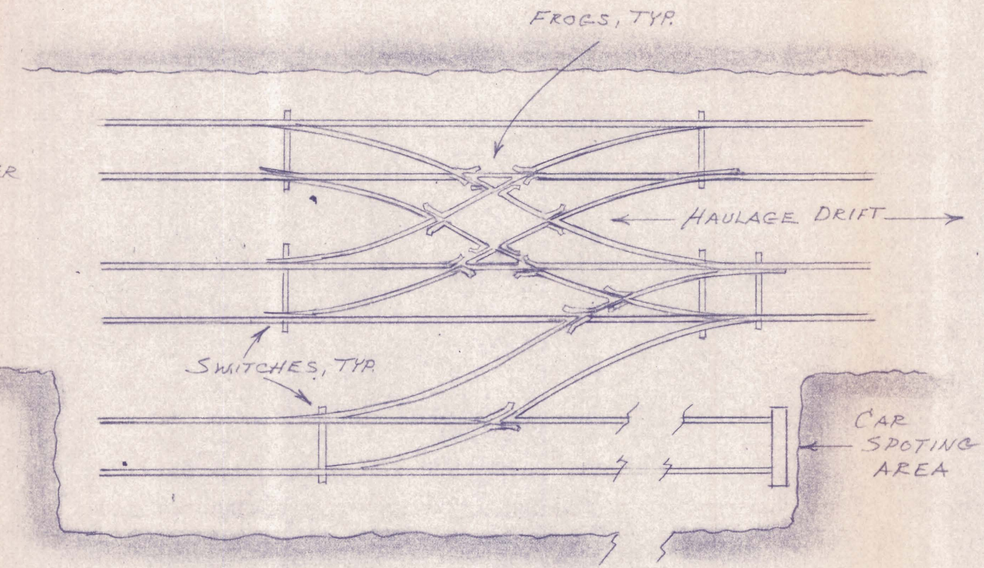
SCALE EXCEPT WHERE NOTED-
1 INCH = 2 FEET. TYP. - TYPICAL





SCALE
1/4" = 1 FOOT

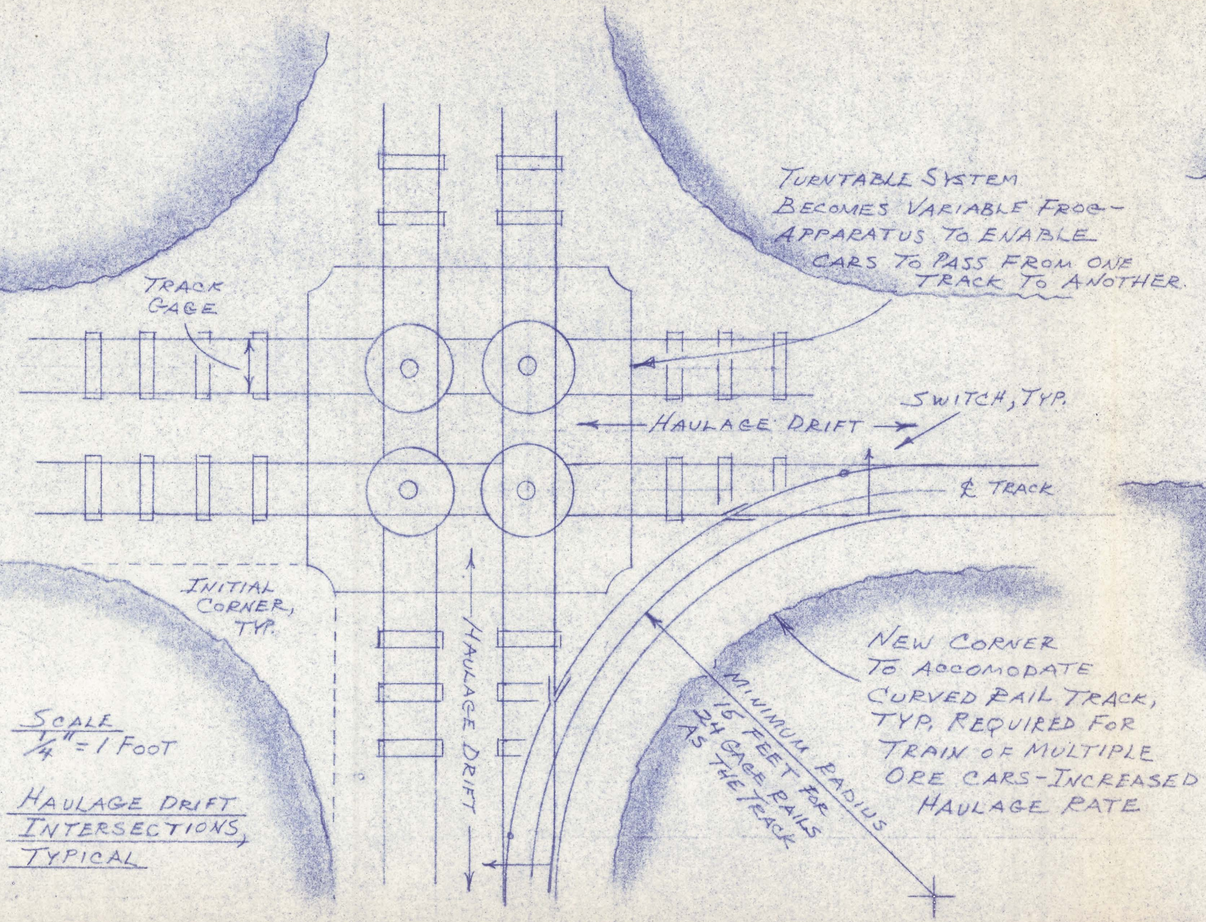
HAULAGE DRIFT
INTERSECTIONS,
TYPICAL



CROSSOVER TRACK SYSTEM
WITH AREA TO STORE CARS
OR MATERIALS

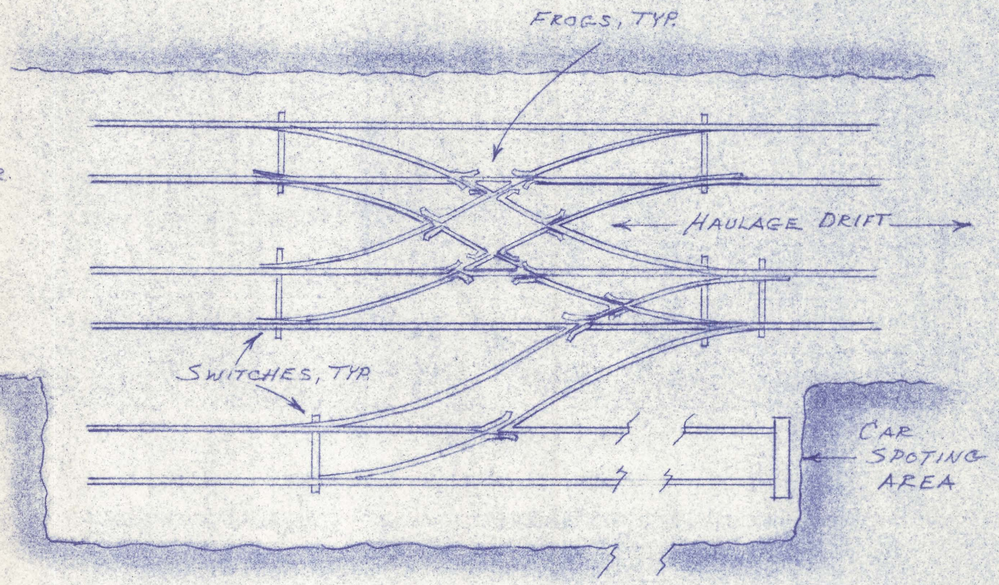
HAGERTY RESEARCH AND
DEVELOPMENT CO. INC.
FEBRUARY 1986.

MODIFICATION OF MINE
RAIL SYSTEM FOR
INCREASED HAULAGE RATE



SCALE
1/4" = 1 FOOT

HAULAGE DRIFT INTERSECTIONS, TYPICAL



CROSSOVER TRACK SYSTEM WITH AREA TO STORE CARS OR MATERIALS

HAGERTY RESEARCH AND DEVELOPMENT CO. INC.
FEBRUARY 1986.

MODIFICATION OF MINE RAIL SYSTEM FOR INCREASED HAULAGE RATE

Hagerty Research & Development Co., Inc.
P. O. Box 2486
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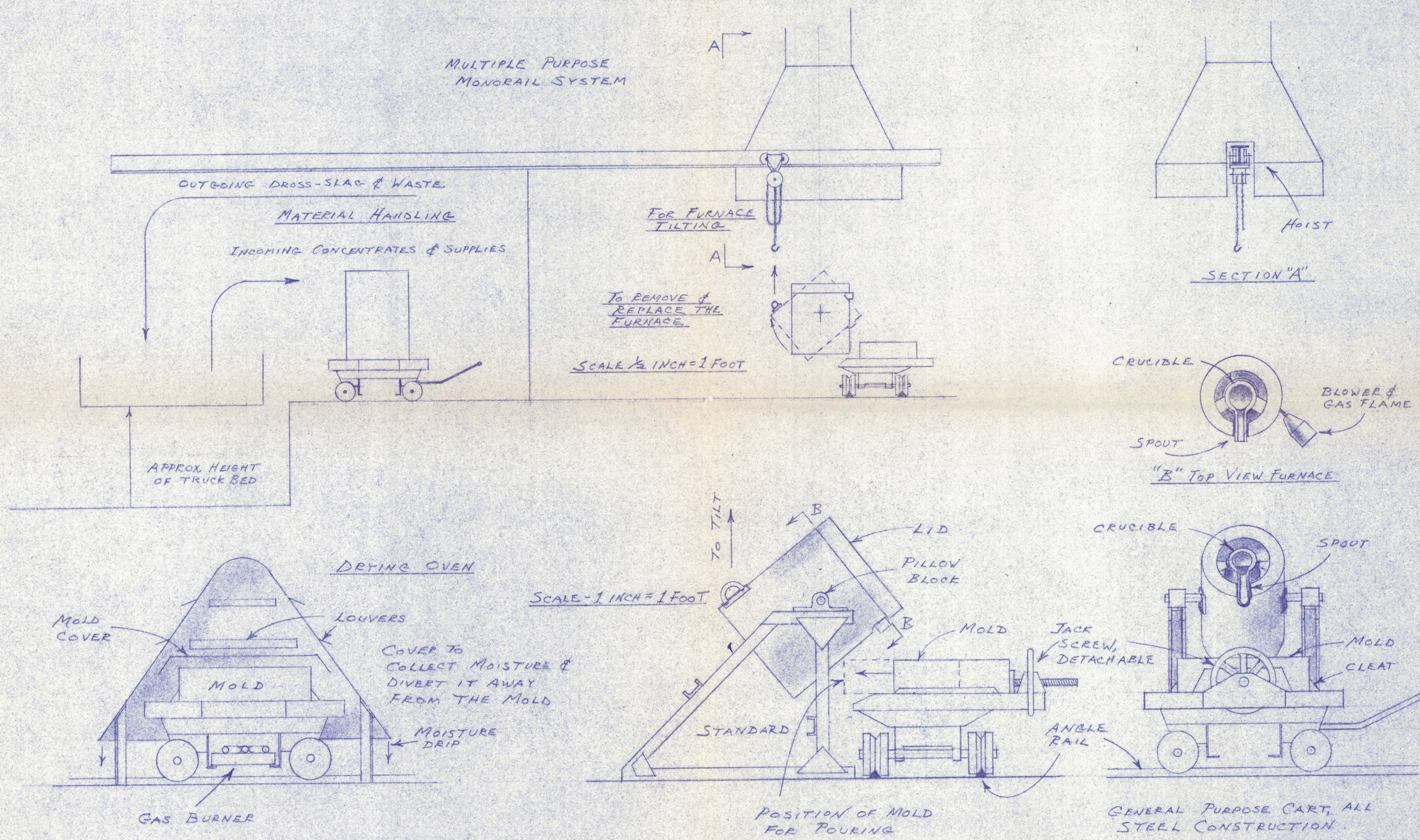

SHEET No. 2 OF 2

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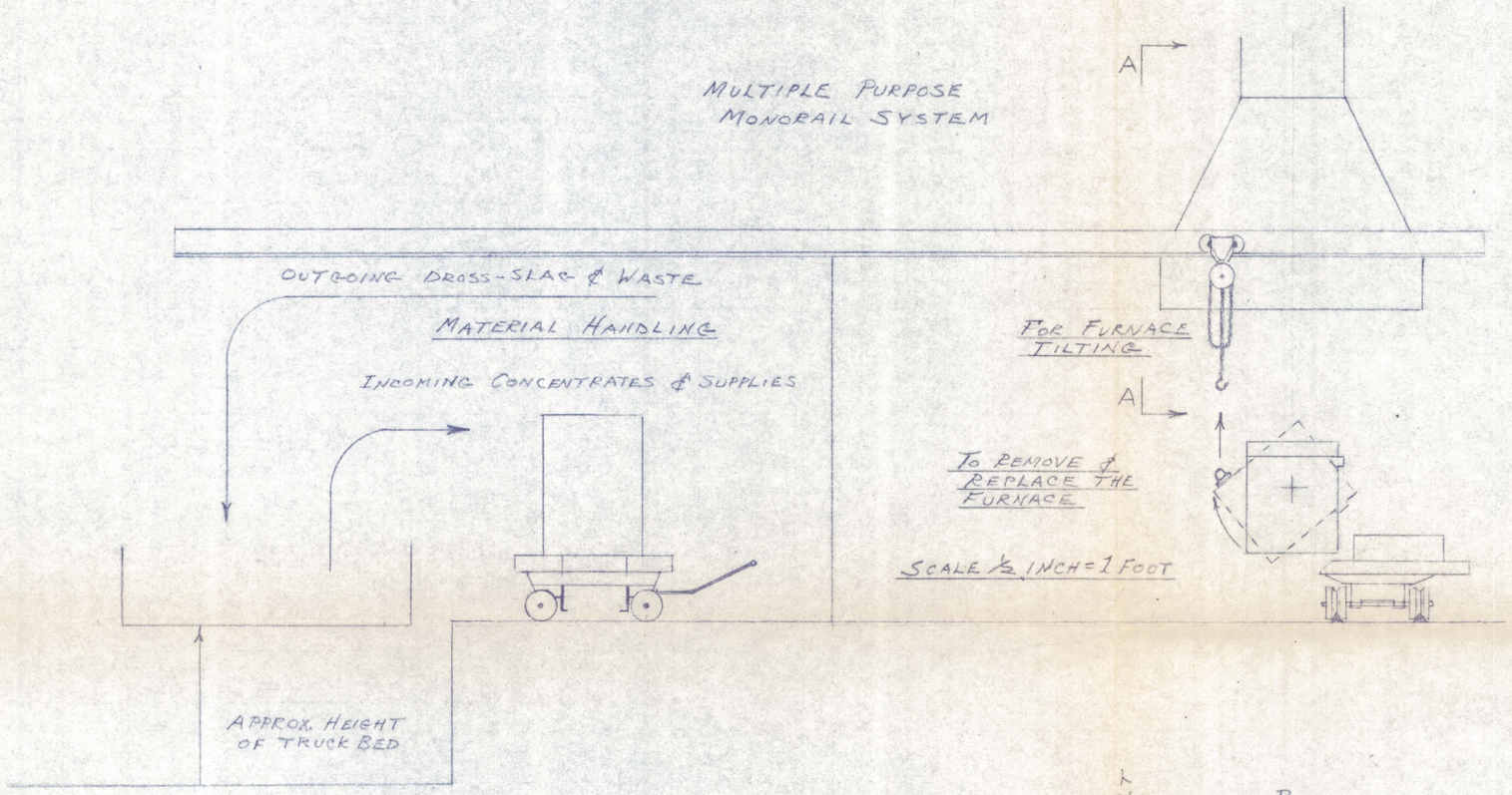

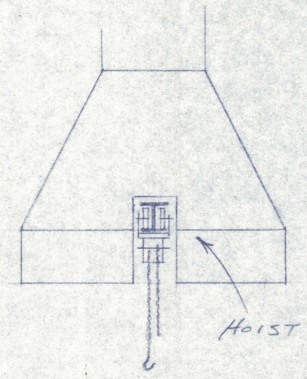

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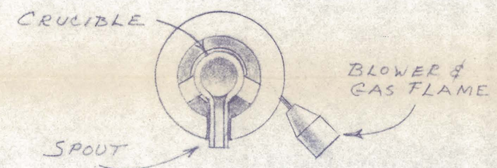
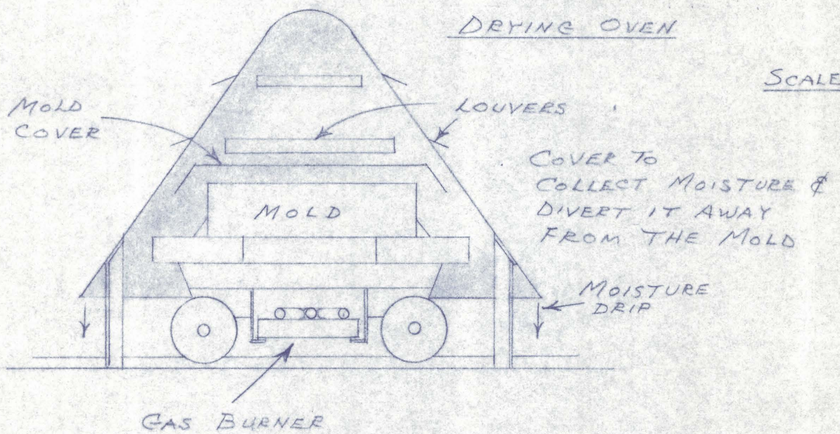
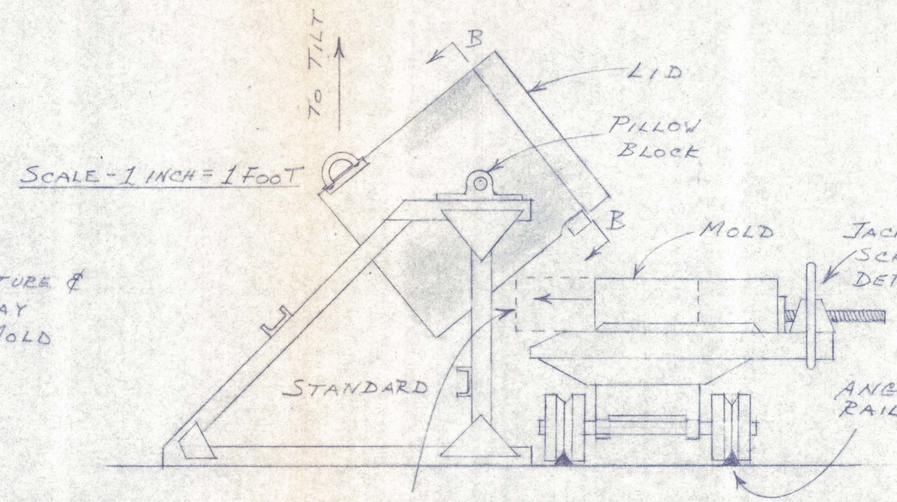
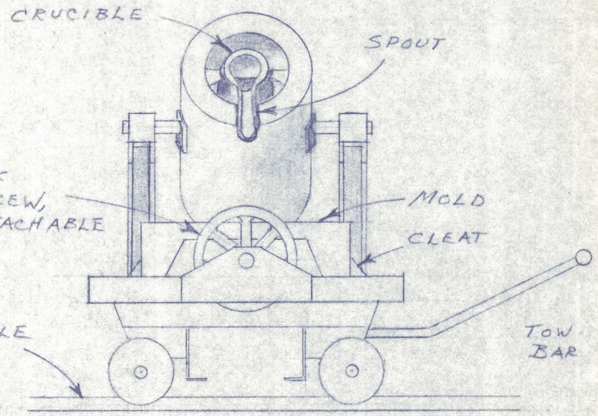


"B" TOP VIEW FURNACE



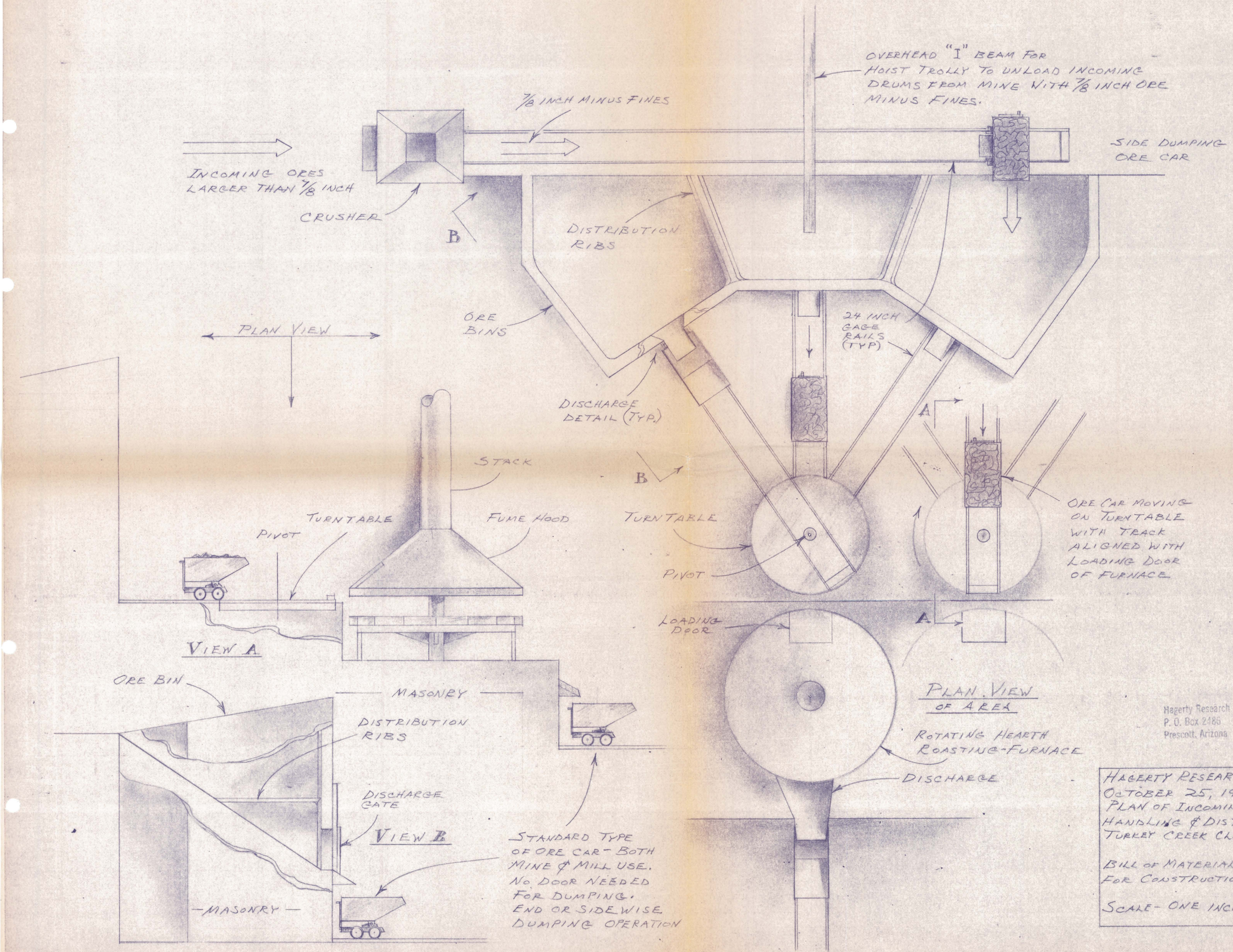


POSITION OF MOLD FOR POURING



GENERAL PURPOSE CART, ALL STEEL CONSTRUCTION

SHEET No. 2 OF 2



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Prescott, Arizona 86302

HAGERTY RESEARCH & DEV. CO. INC.
OCTOBER 25, 1985.
PLAN OF INCOMING ORES, HANDLING & DISTRIBUTION
TURKEY CREEK CLEATOR MILL

BILL OF MATERIALS & DWGS. FOR CONSTRUCTION FOLLOW.

SCALE - ONE INCH = FOUR FEET

SELECTED ORE-HEAVY GALENA. DIRECT TO SMELTING OPERATIONS

ULTRA FINE GOLD & OTHER CONCENTRATE - DIRECT TO SMELTING

INCOMING ORE LARGER THAN 7/8 INCH & FINES

WATER WASHED AT MINE ON TRAMMING. MOST WASTE REMOVED

CRUSHER - TO 7/8 INCH & SMALLER SIZES

SIZES MORE SUSCEPTIBLE TO ROASTING EFFECT.

DRYING AND ROASTING

CONVERTS SULPHIDES TO OXIDES & CARBONATES AND WEAKENS COHESIVE PROPERTIES FACILITATING PREPARATION OF ORE FOR PROCESSING

INCOMING ORE LESS THAN 7/8 INCH & FINES

WATER WASHED AT MINE ON TRAMMING. MOST WASTE REMOVED

SCREEN TO 16 MESH & FINER

HYDROMATIC JIG
KEENE ENGINEERING MFG.
RECOVERS MICRO FINE GOLD, SILVER AND PLATINUM. LARGER PARTICLES TO MILL TO BE REDUCED

16 MESH

CRUSHER AND ROLLER MILL
KEENE MFG.
REDUCES ORE TO POWDER SIZE-800-1000 MESH SIZES. A COMBINATION CRUSHER AND ROLLER MILL. MATERIAL AS DISCHARGED READY FOR FINAL WASHING & GRAVITY CONCENTRATING

AGITATED WATER WASHING AND CONCENTRATING
CONCENTRATING TABLES AND HYDRAULIC SLUCING INTO COLLECTION BINS FOR THE FURNACE OPERATIONS & POURING THE DORÉ ANODE BARS, THE FINAL PRODUCT FOR SHIPMENT. CHEMICAL PARTING TREATMENTS WILL BE EMPLOYED IN SMELTING PROCESS

RECIRCULATED WATER

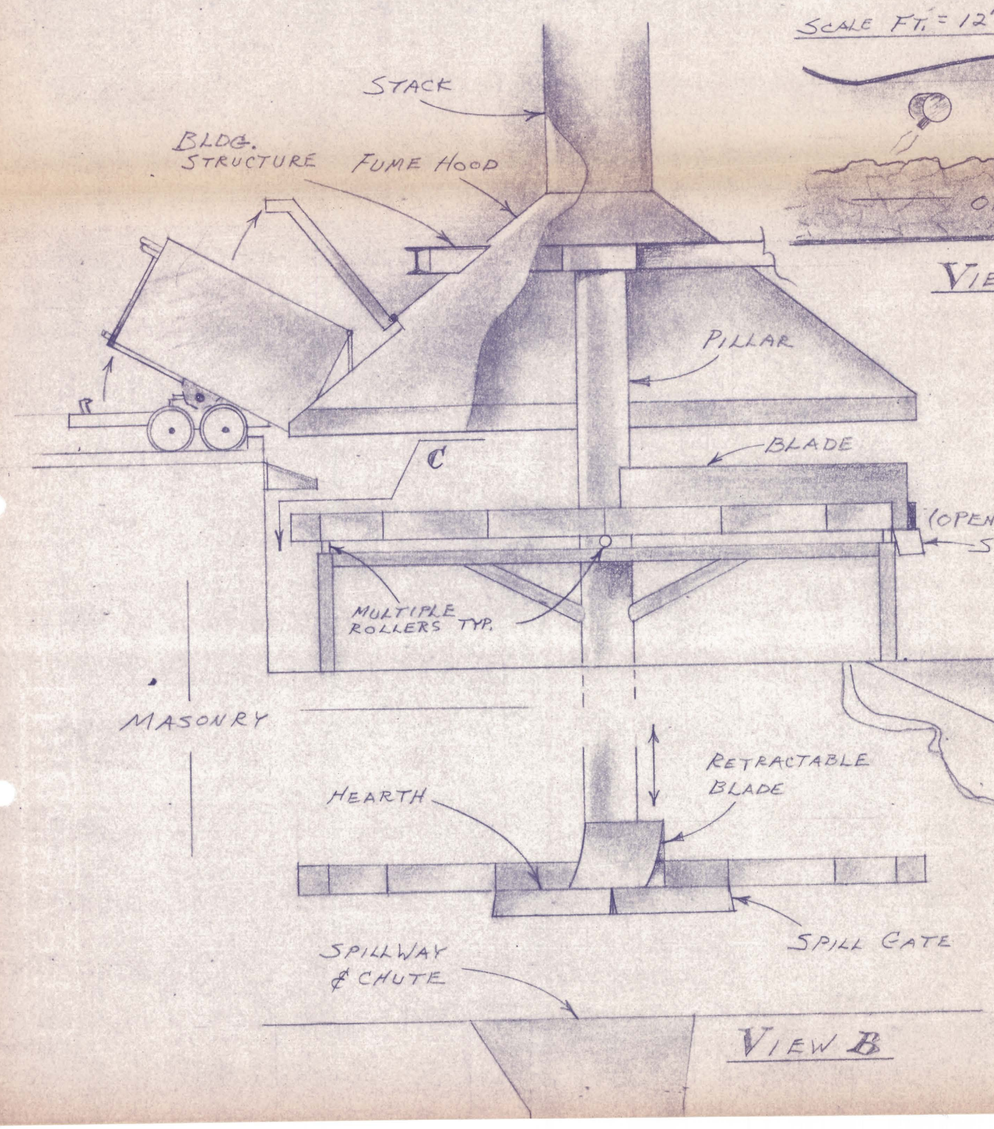
SETTLING TANK
LIQUID WILL CONTAIN PARTICLES SUSPENDED-SOME OF VALUE. THE SETTLED MATERIAL WILL BE REMOVED AND COLLECTED

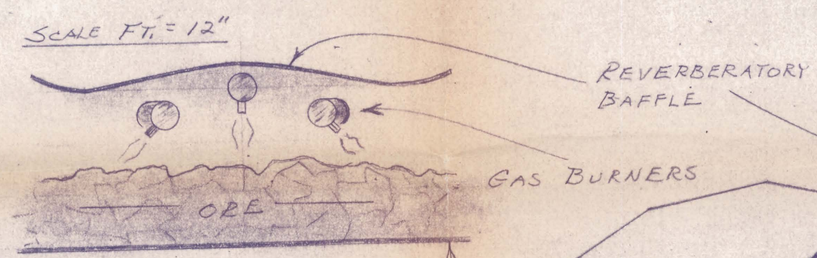
SMELTING

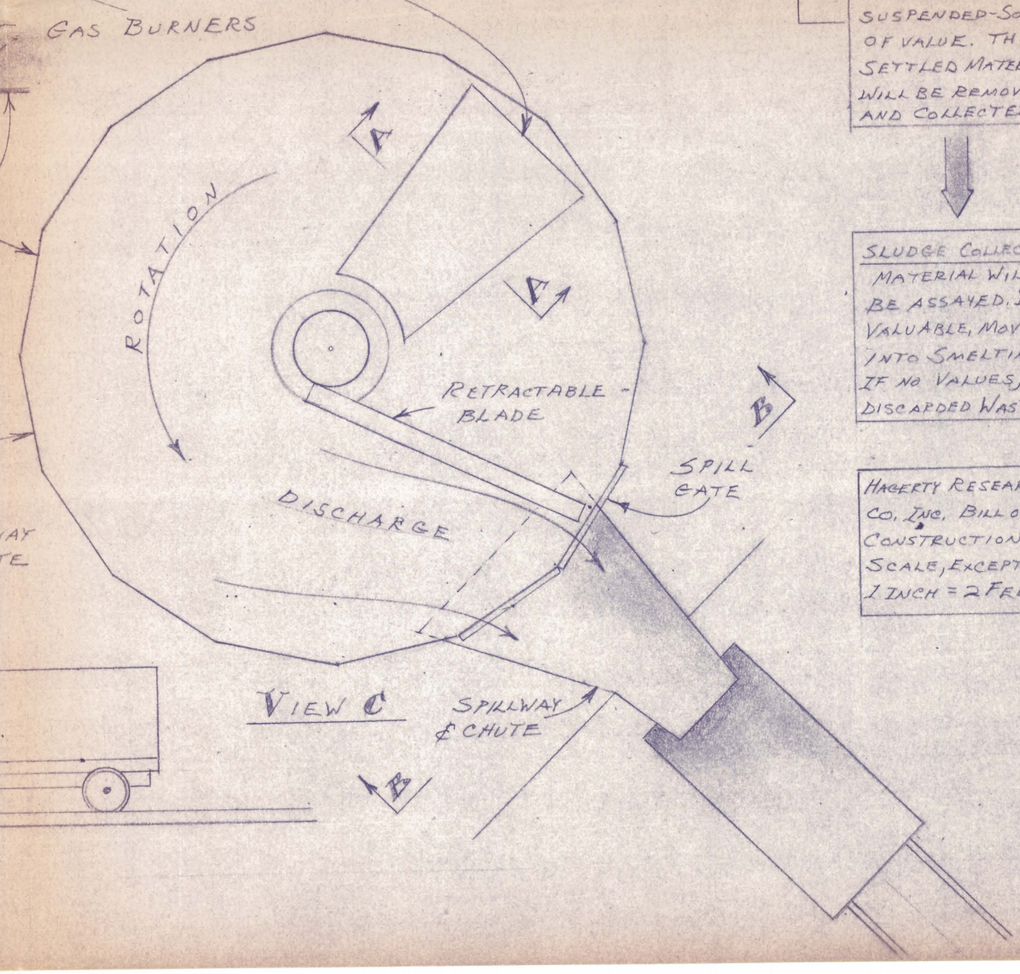
SLUDGE COLLECTION
MATERIAL WILL BE ASSAYED. IF VALUABLE, MOVED INTO SMELTING. IF NO VALUES, DISCARDED WASTE

PLAN OF MILL AND SMELTING OPERATION
TURKEY CREEK CLEATOR MILL LOCATION
SEPTEMBER 20, 1985.

HAGERTY RESEARCH & DEVELOPMENT CO. INC. BILL OF MATERIALS AND CONSTRUCTION DWGS. FOLLOW. SCALE, EXCEPT WHERE NOTED, 1 INCH = 2 FEET. TYP. TYPICAL



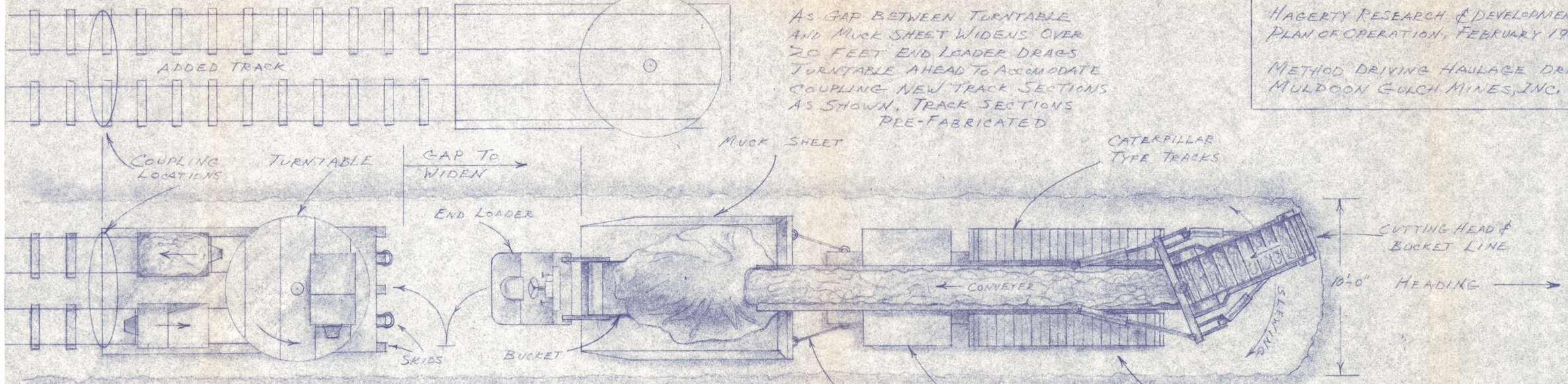


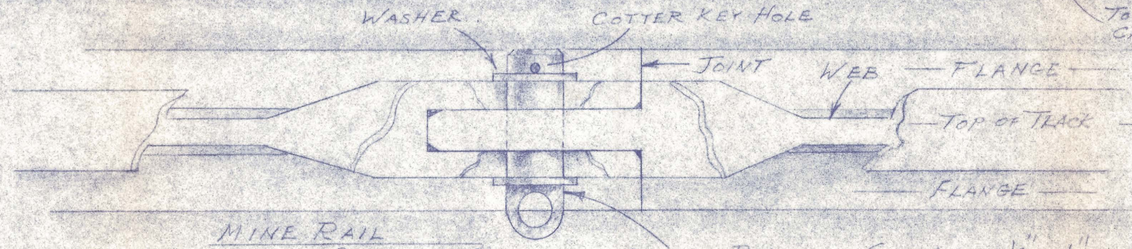


HAGERTY RESEARCH & DEVELOPMENT CO. INC
PLAN OF OPERATION, FEBRUARY 1986.

METHOD DRIVING HAULAGE DRIFTS
MULDOON GULCH MINES, INC.

AS GAP BETWEEN TURNTABLE AND MUCK SHEET WIDENS OVER 20 FEET END LOADER DRAGS TURNTABLE AHEAD TO ACCOMODATE COUPLING NEW TRACK SECTIONS AS SHOWN. TRACK SECTIONS PRE-FABRICATED





MINE RAIL
QUICK CONNECT & DISCONNECT JOINT

SCALE - ½" = 1"

SCALE ¼" = 1 FOOT

TRACK GAGE - 24
WT. PER yd - 30 Lbs.
MINE RAIL

MANDRELL CONTINUOUS MINER

CUTTING		PRODUCTION
SLEWING	— 12'-6"	30 TONS PER HOUR - RUNNING TIME (APPROX.)
VERTICAL	— 0'-9"	
BELOW GRADE	— 0-12"	
POWER, ELECTRIC & HYDRALIC	— 400 HP.	WEIGHT 120,000 Lbs. (60 TONS)