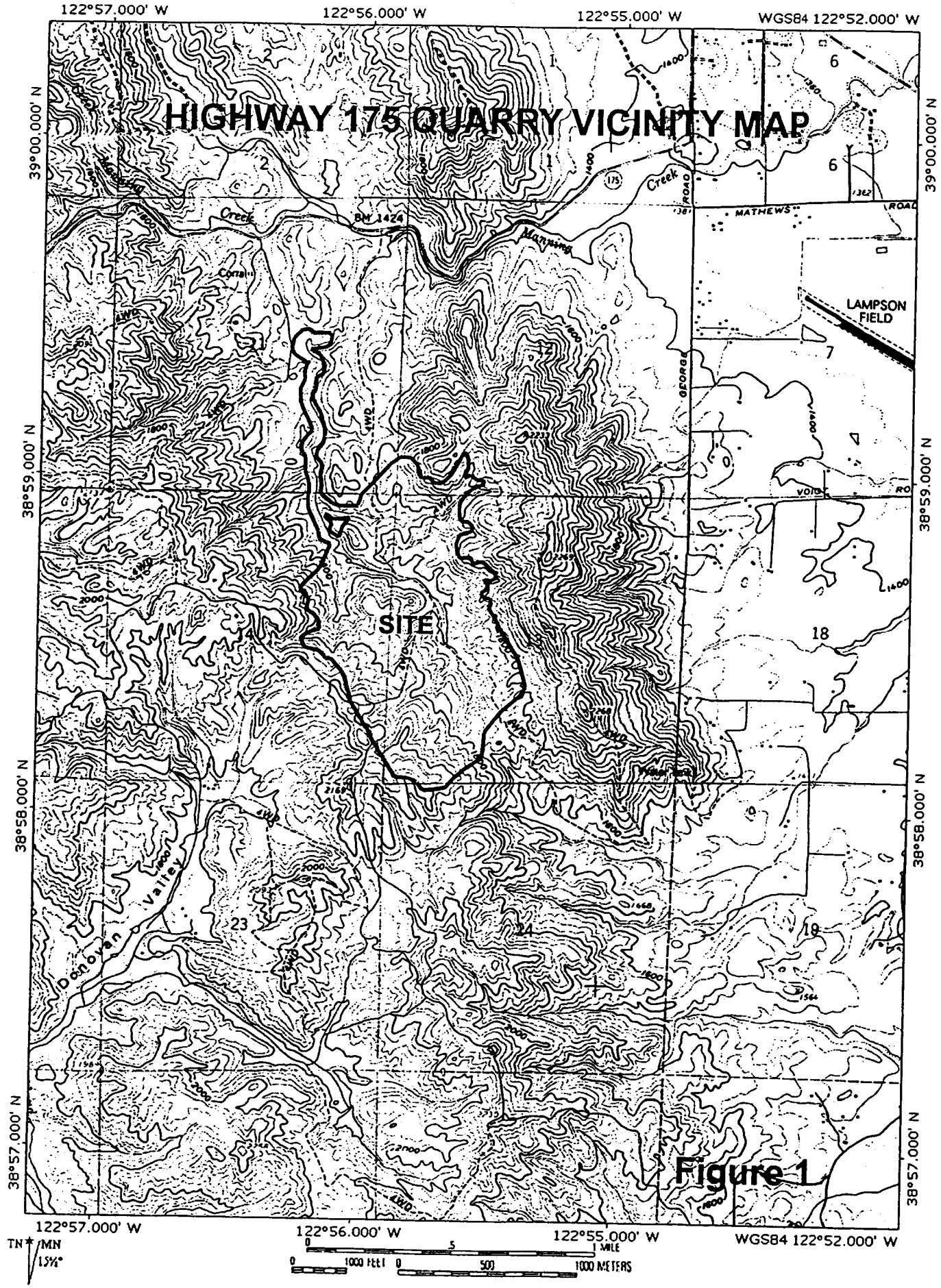

Figure 1

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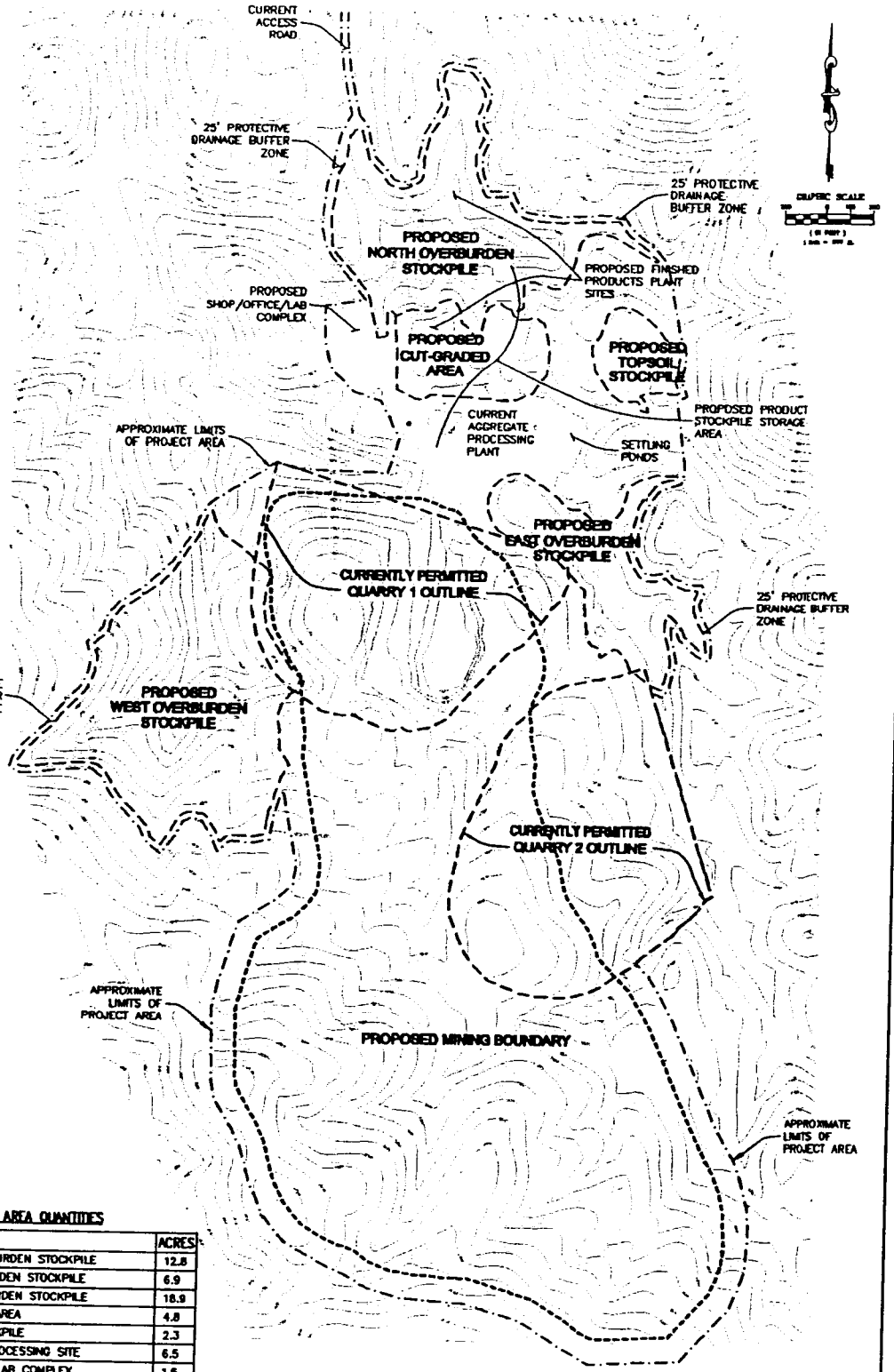
FIGURE 1 of 7



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APPROXIMATE AREA QUANTITIES

DESCRIPTION	ACRES
NORTH OVERBURDEN STOCKPILE	12.8
EAST OVERBURDEN STOCKPILE	6.9
WEST OVERBURDEN STOCKPILE	18.9
CUT-GRADED AREA	4.8
TOPSOIL STOCKPILE	2.3
AGGREGATE PROCESSING SITE	6.5
SHOP/OFFICE/LAB COMPLEX	1.5
ACCESS ROAD	3.2
MINING AREA	98.0
TOTAL OPERATIONAL AREAS	155
APPROXIMATE LIMITS OF PROJECT AREA	200

NOTES:

1) FINISHED PRODUCT PLANTS INCLUDE A PORTLAND CEMENT CONCRETE PLANT, AN ASPHALT CONCRETE PLANT AND A RECYCLE PLANT.
2) THE APPROXIMATE LIMITS OF PROJECT AREA INCLUDES BUFFER ZONES FOR ACCESS ROADS, HAUL ROADS, PROTECTION OF DRAINAGE AREAS, AND EQUIPMENT STORAGE AREAS.

The depth of mining, limit-of-mining, and cut/fill estimates are only approximate, and are subject to change based upon the amount and quality of material encountered, and the ability of the operator to meet the reclamation requirements.

SHEET 2 OF 12

PROJECT OVERVIEW
HIGHWAY 175 QUARRY EXPANSION
GRANITE CONSTRUCTION CO.
UKIAH, CALIFORNIA 95482

DSGN MT
DR MM
CHK MT
APVD MT

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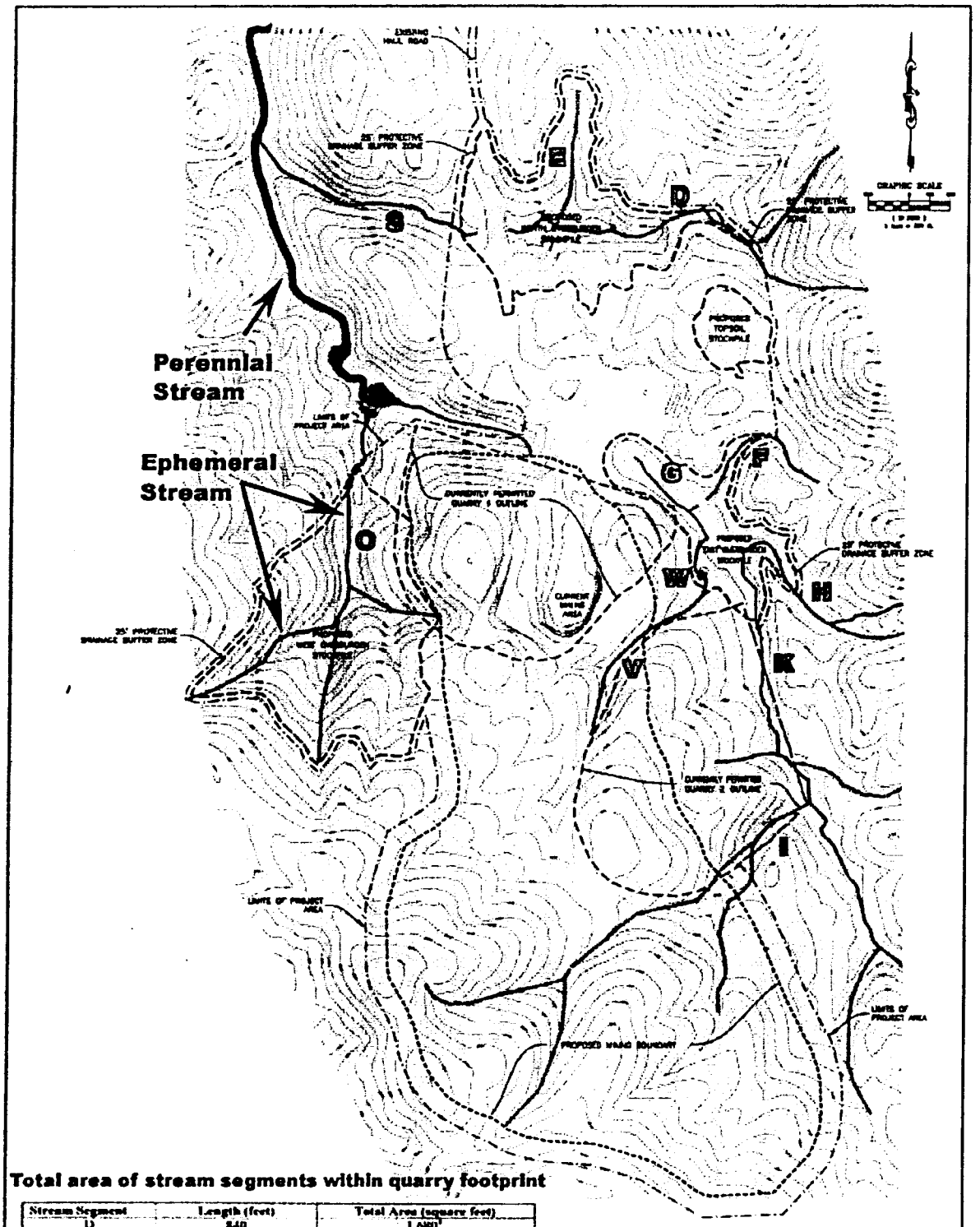
FIGURE 2 of 7

HIGHWAY 175 QUARRY



Total area of stream segments within quarry footprint

Stream Segment	Length (feet)	Total Area (square feet)
D	840	1,680
E	700	1,050
F	540	810
G	600	5,100
H	500	750
I	2,300	4,600
K	320	960
O	2,200	4,400
S	200	871
V	700	1,050
W	40	800
TOTAL	8,940	22,871 = 0.51 acres

LEGEND:

- PROPOSED LIMITS OF PROJECT AREA
- PROPOSED LIMITS OF OVERBURDEN STOCKPILE AREAS
- PROPOSED MINING BOUNDARY

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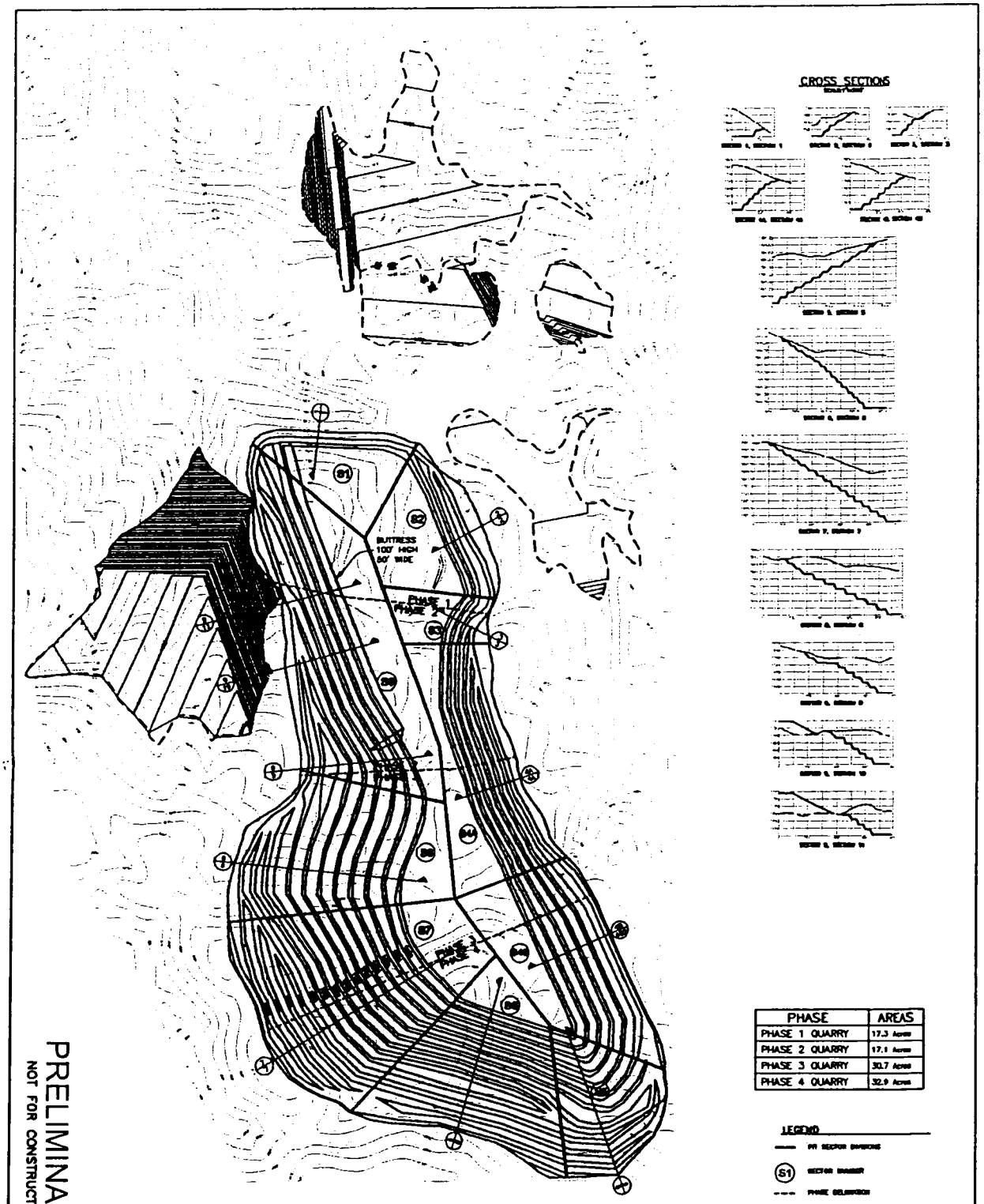
FIGURE 3 of 7



PHASE	AREAS
PHASE 1 QUARRY	17.3 Acres
PHASE 2 QUARRY	17.1 Acres
PHASE 3 QUARRY	30.7 Acres
PHASE 4 QUARRY	32.9 Acres

LEGEND

- PIT SECTOR DIVISIONS
- (S1) SECTOR NUMBER
- PHASE DELINEATION
- SENSITIVITY CROSS SECTIONS (SECTOR / SECTIONS)
- EXISTING GROUND (CROSS-SECTIONS)
- PROPOSED GRADING (CROSS-SECTIONS)
- FINES WASHOUT MATERIAL (CROSS-SECTIONS)

NOTES:

1) ALL BENCHES ARE 35 FEET HIGH.
2) BENCH FACE ANGLES ARE 90°.

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PIT SECTOR	STRIKE	RECOMMENDED PIT SLOPE ANGLE	BEST CASE	WORST CASE	PRIMARY CRITERIA
1	82	43	48	40	BENCH SAFETY
2	133	43	48	40	BENCH SAFETY
3	200	43	48	40	BENCH SAFETY
4A	128	43	48	40	BENCH SAFETY
4B	185	32	43	30	STRUCTURE
5	200	30	46	40	REQUIRES A 200 FT. STEP OUT AT THE TOE FROM THE CONTACT
6	306	43	46	30	REQUIRES A 200 FT. STEP OUT AT THE TOE FROM THE CONTACT
7	320	35	46	25	REQUIRES A 200 FT. STEP OUT AT THE TOE FROM THE CONTACT
8	16	20.0	42	25	STEP OUT 150 FT. AT TOE MINIMIZES WASTE
9 SOUTH OF WEST FILL	342	30	46	34	PLANAR FAILURES MINE OUT PAST CONTACT
9 BEHIND WEST FILL	342	30	46	34	REQUIRES LEAVING A 50 FT. WIDE BY 100FT. HIGH STEP OUT AT TOE

GRAPHIC SCALE

The depth of mining, limit-of-mining, and mid/fill estimates are only approximate, and are subject to change based upon the amount and quality of material unanswered, and the ability of the operator to meet the reclamation requirements.

SHEET 4 OF 12

SURFACE MINING PLAN
HIGHWAY 175 QUARRY EXPANSION
GRANITE CONSTRUCTION CO.
UKIAH, CALIFORNIA 95482

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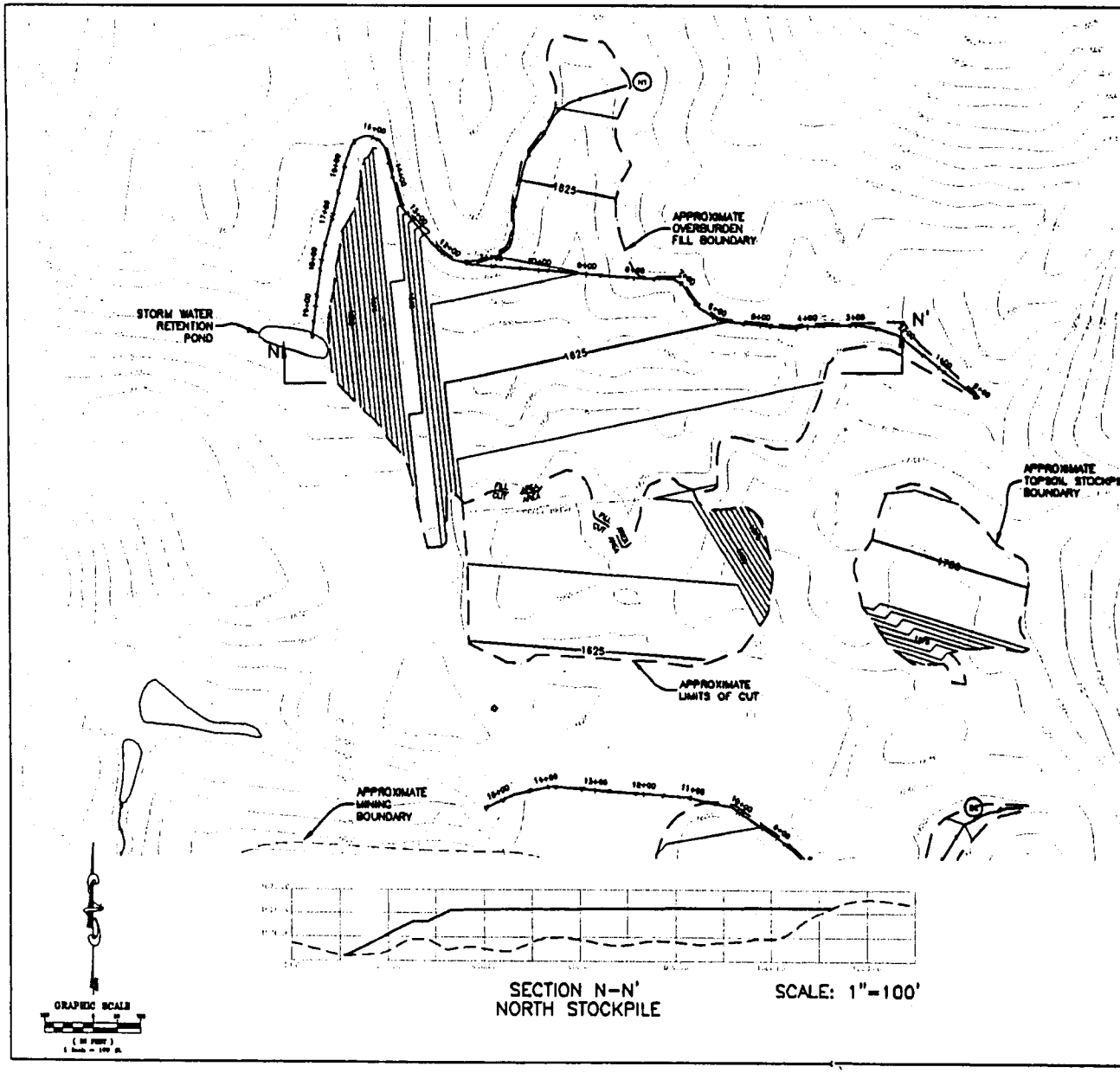
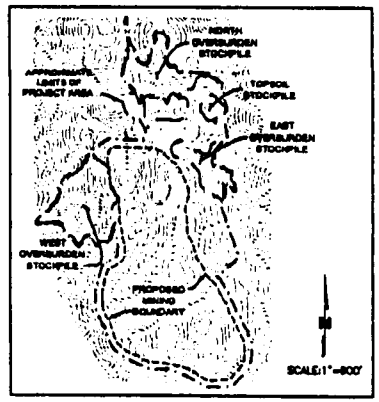
FIGURE 4 of 7



SECTION N–N'
NORTH STOCKPILE

SCALE: 1"=100'



PROJECT AREA

MISCELLANEOUS QUANTITY

APPROXIMATE CUT–GRADED AREA = 4.8 ACRES

NORTH OVERBURDEN STOCKPILE QUANTITIES

APPROXIMATE AVAILABLE STOCKPILE VOLUME = 0.6 MILLION C.Y.
APPROXIMATE AREA OF STOCKPILE FOOTPRINT = 12.8 ACRES

TOPSOIL STOCKPILE QUANTITIES

APPROXIMATE AVAILABLE STOCKPILE VOLUME = 50,000 C.Y.
APPROXIMATE AREA OF STOCKPILE FOOTPRINT = 2.3 ACRES

LEGEND

- DRAINGE CHANNEL
- 1600 MAJOR ELEVATION CONTOUR
- STORMWATER DIVERSION CHANNEL
- N2 CHANNEL LABEL
- N N' CROSS SECTION LOCATION

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NORTH OVERBURDEN STOCKPILE PLAN
HIGHWAY 175 QUARRY EXPANSION
GRANITE CONSTRUCTION CO.
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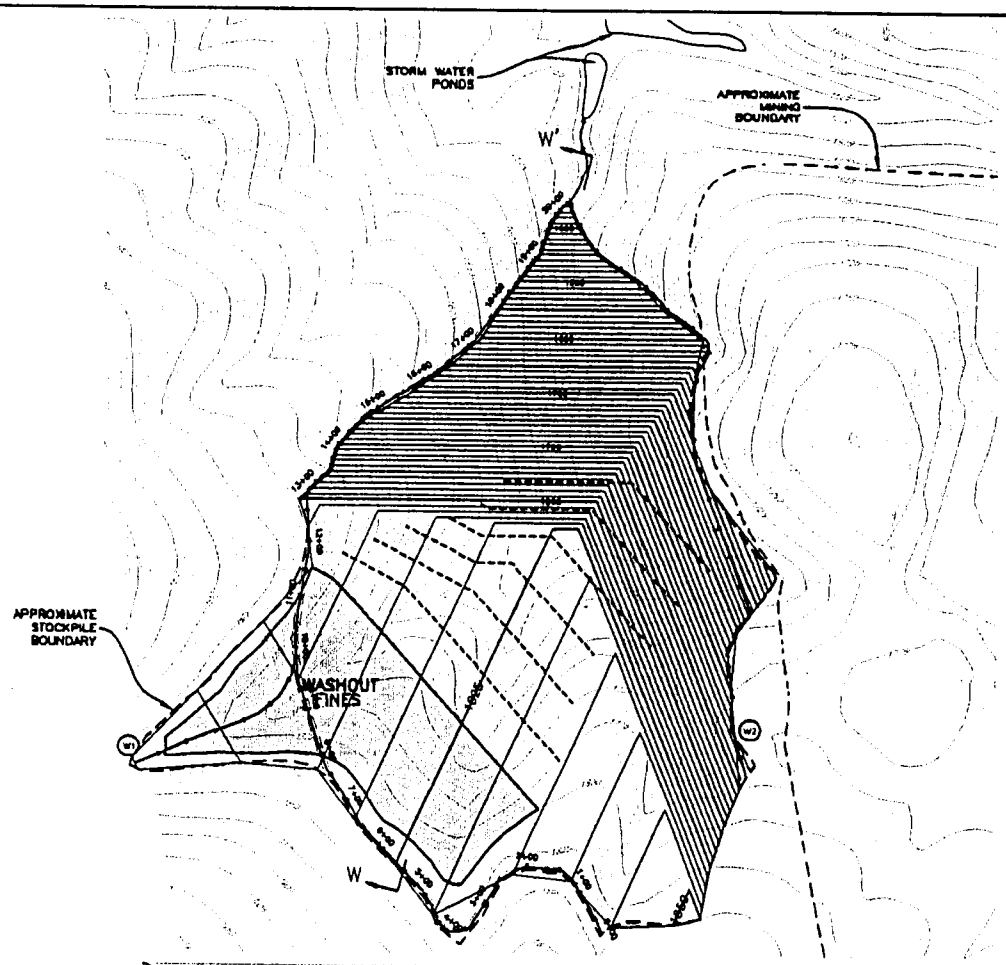
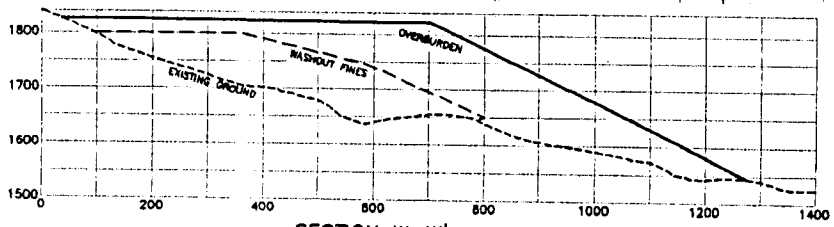
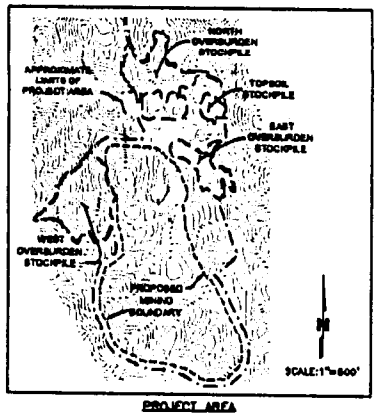
FIGURE 5 of 7





SECTION W–W'
WEST STOCKPILE

SCALE: 1" = 100'



PROJECT AREA

WEST OVERBURDEN STOCKPILE QUANTITIES

APPROXIMATE AVAILABLE STOCKPILE VOLUME = 2.2 MILLION C.Y.

VOLUME CAPACITY FOR WASHOUT FINES = 770,000 C.Y.

APPROXIMATE AREA OF STOCKPILE FOOTPRINT = 18.9 ACRES

LEGEND

- DRAINGE CHANNEL
- 1800 MAJOR ELEVATION CONTOUR – PROPOSED GRADING
- INTERMEDIATE CONTOUR – PROPOSED GRADING
- SURFACE CONTOURS OF WASHOUT FINES WITHIN STOCKPILE
- FINES WASHOUT MATERIAL
- N N' CROSS SECTION LOCATION

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WEST OVERBURDEN STOCKPILE PLAN
HIGHWAY 175 QUARRY EXPANSION
GRANITE CONSTRUCTION CO.
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SHEET 7 OF 12

DATE 8-10-01

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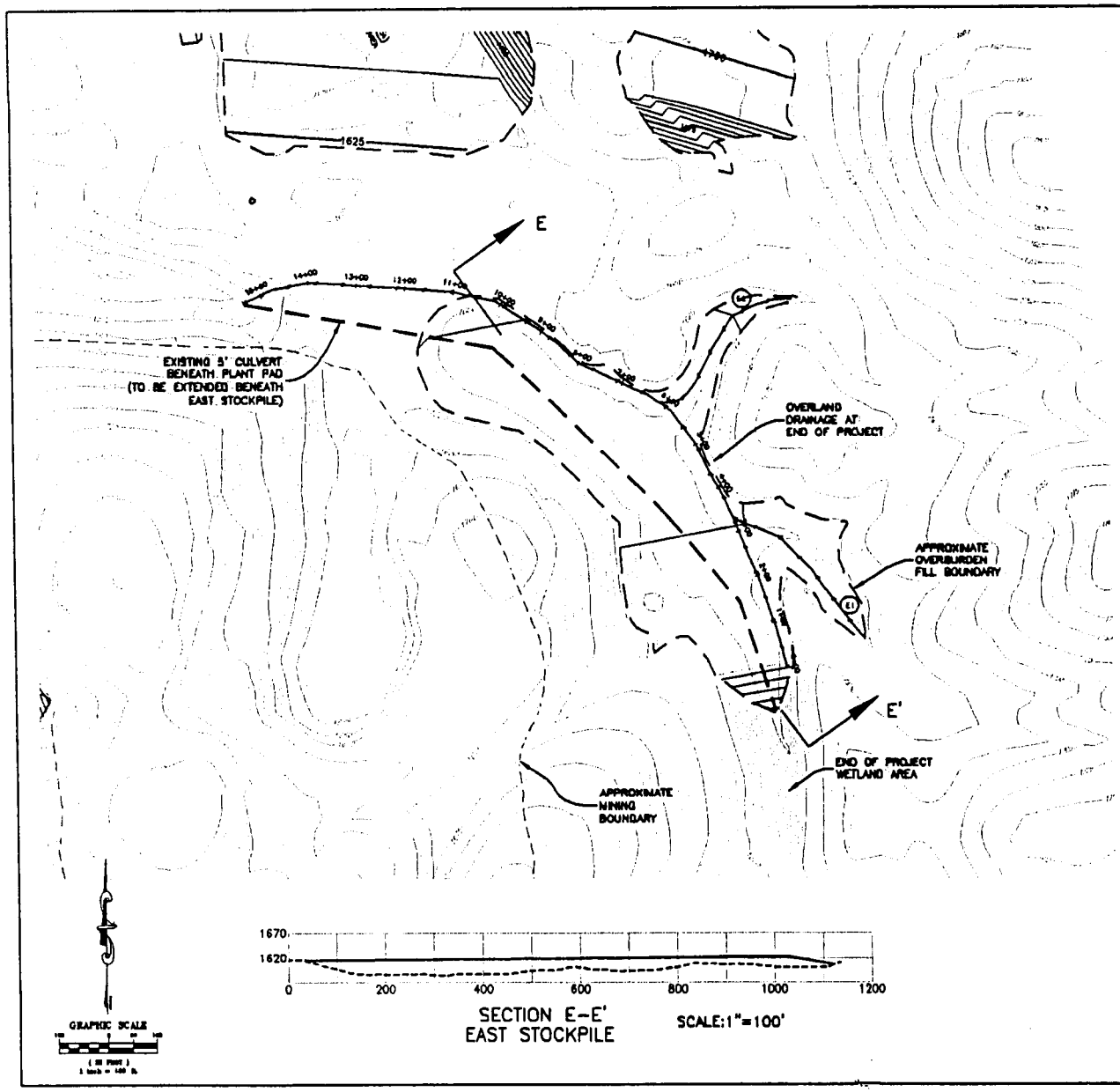
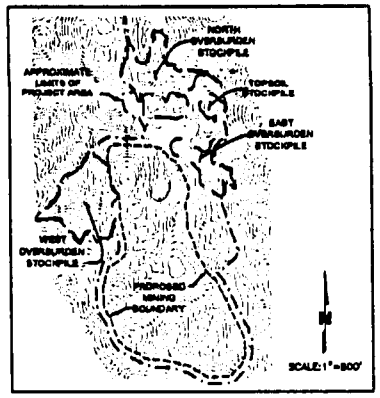
FIGURE 6 of 7



SECTION E-E'
EAST STOCKPILE

SCALE:1"=100'



PROJECT AREA

NOTES

1) THE CULVERT BENEATH THE EAST OVERBURDEN STOCKPILE WILL BE PROPERLY ABANDONED PRIOR TO RECLAMATION IN ORDER TO CONVEY WATER OVERLAND IN STORM WATER CHANNEL.

2) AT THE END OF PROJECT LIFE, WATER WILL BE IMPOUNDED BEHIND EAST OVERBURDEN STOCKPILE. DEVELOPMENT OF THIS IMPOUNDMENT WILL CREATE A SOURCE OF UPLAND WATER THAT WILL ENHANCE DRAINAGE AND RIPARIAN HABITAT.

EAST OVERBURDEN STOCKPILE QUANTITIES

APPROXIMATE AVAILABLE STOCKPILE VOLUME = 195,000 C.Y.

APPROXIMATE AREA OF STOCKPILE FOOTPRINT = 6.9 ACRES

LEGEND

- INTERMEDIATE CONTOUR
- 1600 MAJOR ELEVATION CONTOUR
- STORMWATER DIVERSION CHANNEL
- E2 CHANNEL LABEL

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VERIFY SCALES

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EAST OVERBURDEN STOCKPILE PLAN
HIGHWAY 175 QUARRY EXPANSION
GRANITE CONSTRUCTION CO.
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FIGURE 7 of 7