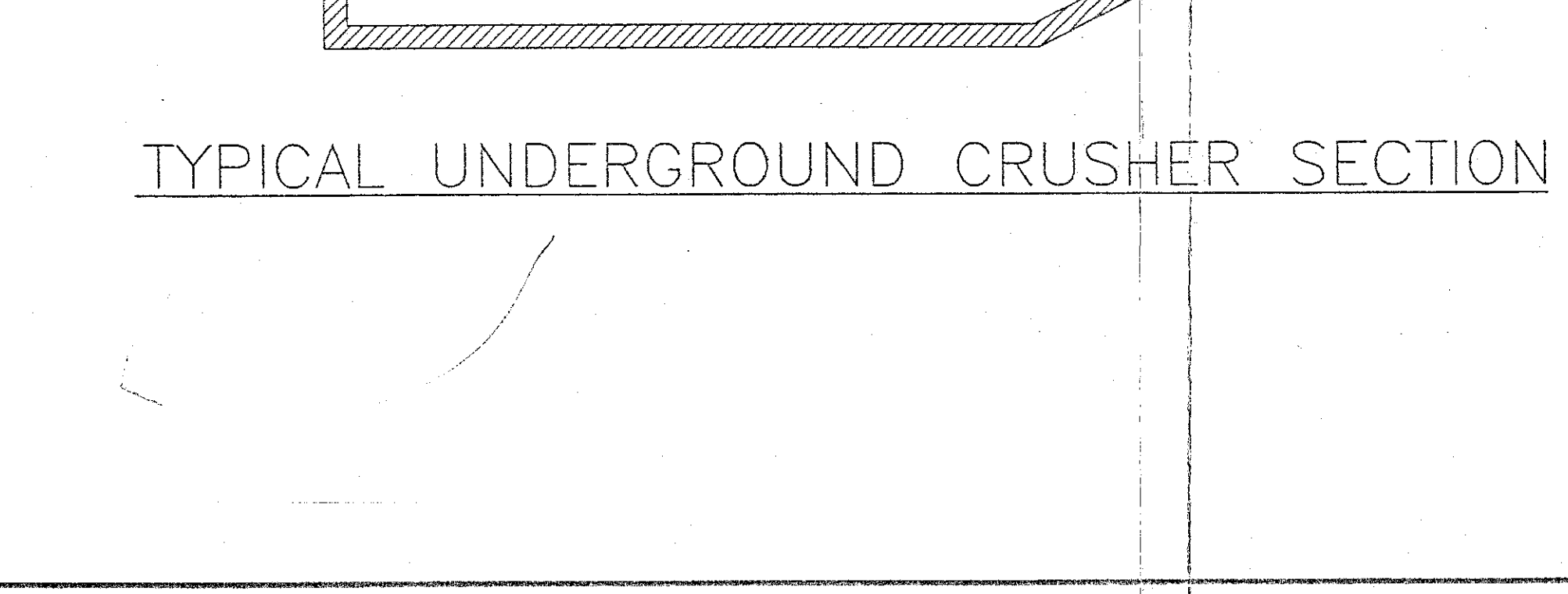
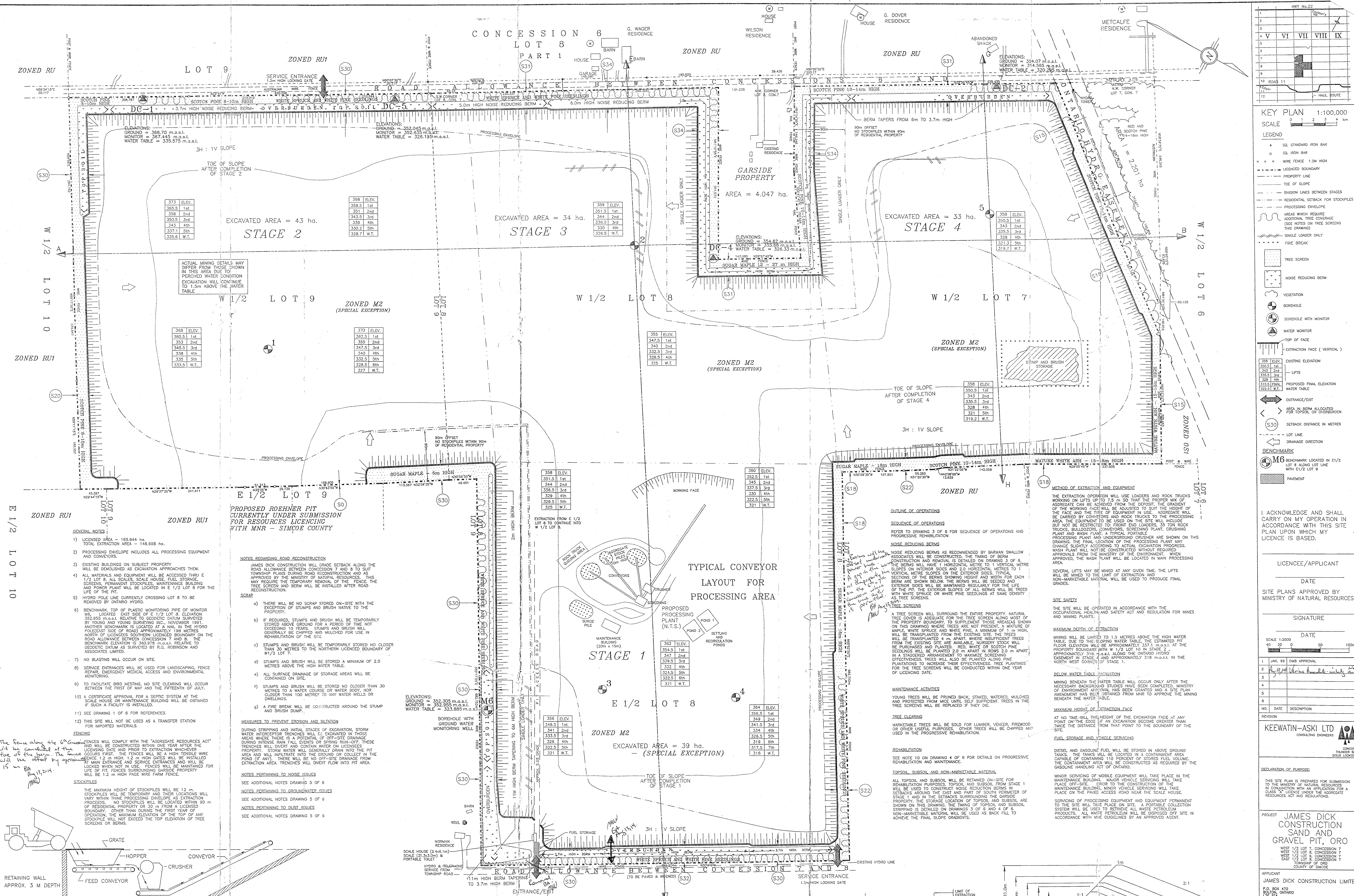
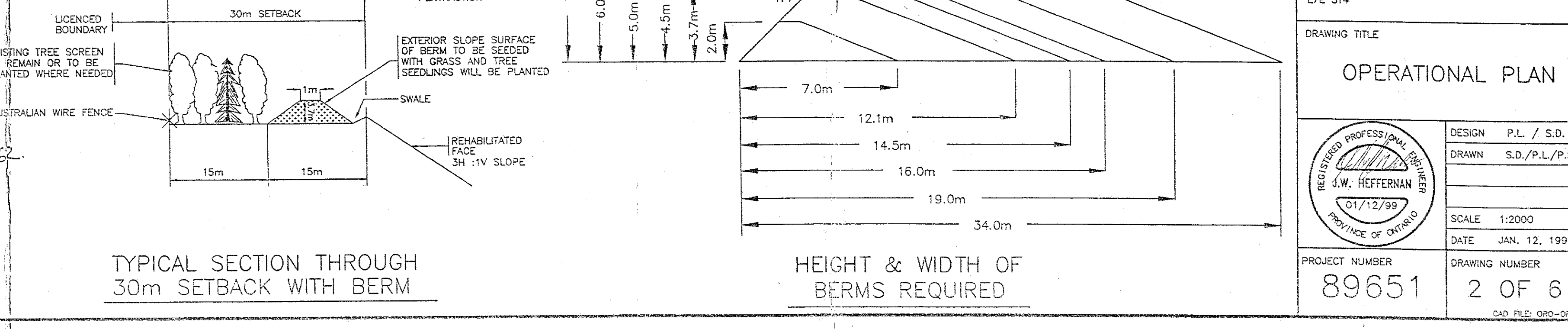
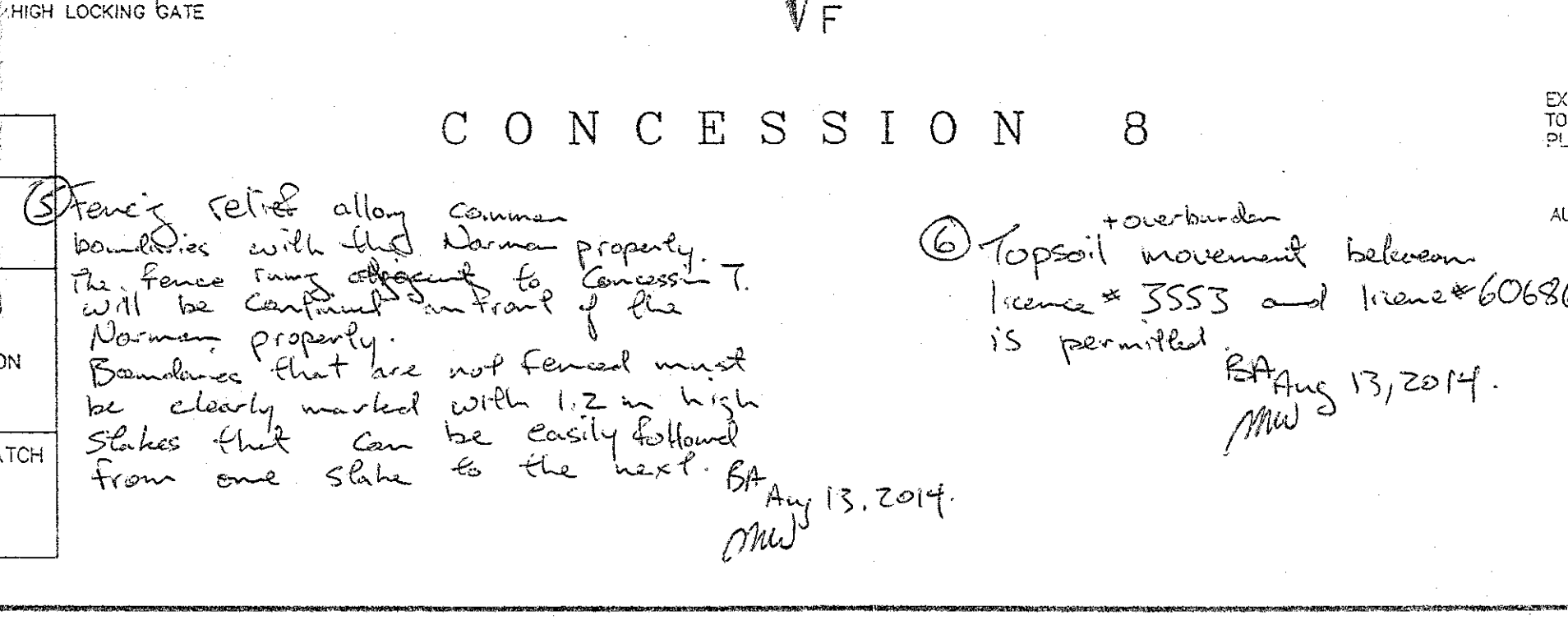




OVERIDE OF REGULATION 702/89

No.	DESCRIPTION	REF. TO REG.	COMMENTS
1.	MINING 15 m SETBACK ALONG COMMON BORDER WITH LOT 9 IN E 1/2 LOT 9	18(1)(c)	MUTUAL MINING OF SETBACKS BETWEEN TWO LICENSED PITS
2.	REMOVAL OF FENCES ALONG COMMON BORDER WITH LOT 9 IN E 1/2 LOT 9	16(1)(c)	REMOVAL OF FENCE TO ALLOW EXTRACTION IMMEDIATELY UPON COMPLETION OF THE ADJACENT SETBACK REHABILITATION
3.	MINING 30 m SETBACK ALONG 7th LINE AND FENCE REMOVAL	18(1)(c)	MINING OF AGGREGATE TO MATCH ROAD GRADE DURING ROAD RECONSTRUCTION. FENCE WILL BE REPLACED.



KEY PLAN 1:100,000

SCALE 0 1 2 3 4 km

LEGEND

- SQ. STANDARD IRON BAR
- SQ. IRON BAR
- WIRE FENCE 1.2M HIGH
- PROPERTY LINE
- TOE OF SLOPE
- DIVISION LINES BETWEEN STAGES
- RESIDENTIAL SETBACK FOR STOCKPILES
- PROCESSING ENVELOPE
- AREAS WHICH REQUIRE ADDITIONAL TREE COVERAGE (SEE NOTES ON TREE SCREENS THIS DRAWING)
- SINGLE LOADER ONLY
- FIRE BREAK
- TREE SCREEN
- NOISE REDUCING BERM
- VEGETATION
- BORERHOLE
- BORERHOLE WITH MONITOR
- WATER MONITOR
- TOP OF FACE
- EXTRACTION FACE (VERTICAL)
- EXISTING ELEVATION
- LIFTS
- PROPOSED FINAL ELEVATION
- WATER TABLE
- ENTRANCE/EXIT
- AREA IN BERM ALLOCATED FOR TOPSOIL OR OVERBURDEN
- SETBACK DISTANCE IN METRES
- LOT LINE
- DRAINAGE DIRECTION
- BENCHMARK
- M6 BENCHMARK LOCATED IN E1/2 LOT 8 ALONG LOT LINE WITH E1/2 LOT 9
- PAVEMENT

I ACKNOWLEDGE AND SHALL CARRY ON MY OPERATION IN ACCORDANCE WITH THIS SITE PLAN UPON WHICH MY LICENCE IS BASED.

LICENCEE/APPLICANT

DATE

SITE PLANS APPROVED BY MINISTRY OF NATURAL RESOURCES

SIGNATURE

DATE

SCALE 1:2000

1 JAN. 99 DMS APPROVAL

2 2/19/14 James Dick Construction Limited

NO. DATE DESCRIPTION

REVISION

KEEWATIN-ASKI LTD CONSULTING ENGINEERS

DECLARATION OF PURPOSE:

THIS SITE PLAN IS PREPARED FOR SUBMISSION TO THE MINISTRY OF NATURAL RESOURCES IN CONNECTION WITH AN APPLICATION FOR A LICENCE TO EXTRACT AGGREGATE UNDER THE AGGREGATE RESOURCES ACT AND REGULATIONS.

PROJECT JAMES DICK CONSTRUCTION SAND AND GRAVEL PIT, ORO

WEST 1/2 LOT 7, CONCESSION 7

WEST 1/2 LOT 8, CONCESSION 7

EAST 1/2 LOT 8, CONCESSION 7

TOWNSHIP OF ORO

COUNTY OF SIMCOE

APPLICANT JAMES DICK CONSTRUCTION LIMITED

P.O. BOX 470 BOLTON, ONTARIO L7E 5T4

DRAWING TITLE

OPERATIONAL PLAN

DESIGN P.L. / S.D.

DRAWN S.D./P.L./S.

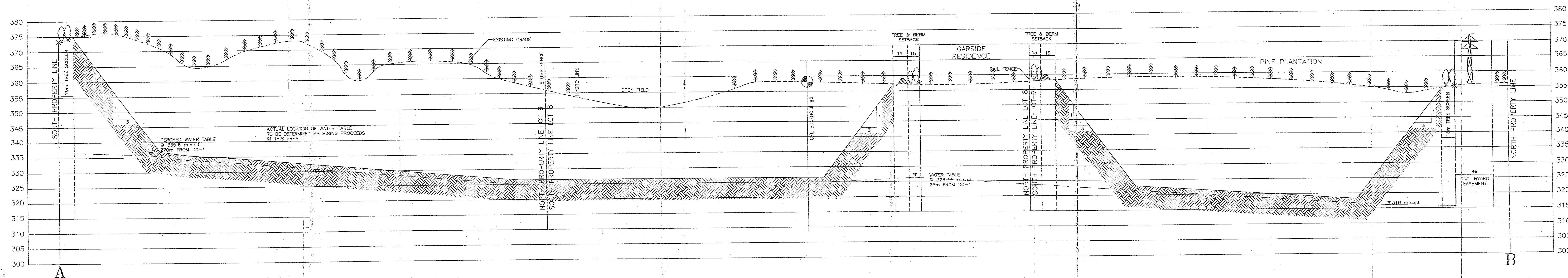
SCALE 1:2000

DATE JAN. 12, 1999

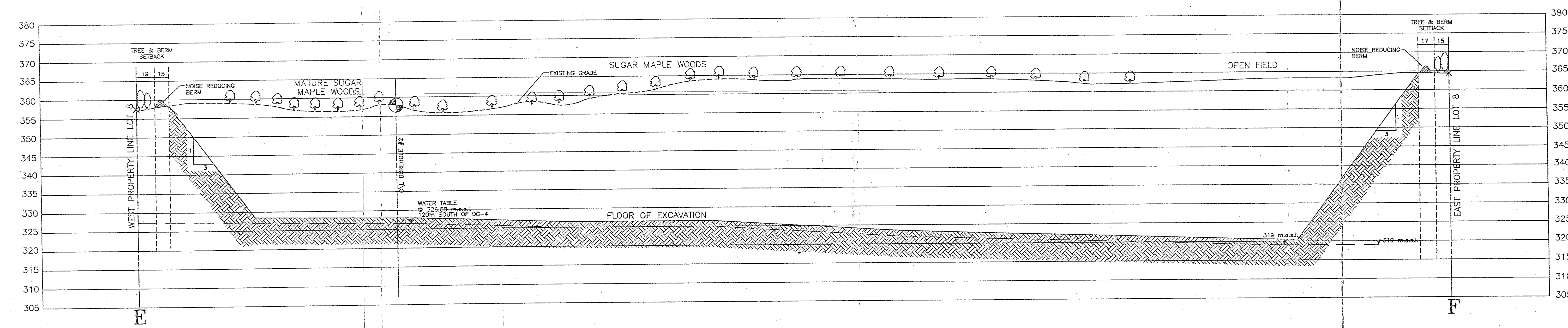
DRAWING NUMBER

PROJECT NUMBER 89651

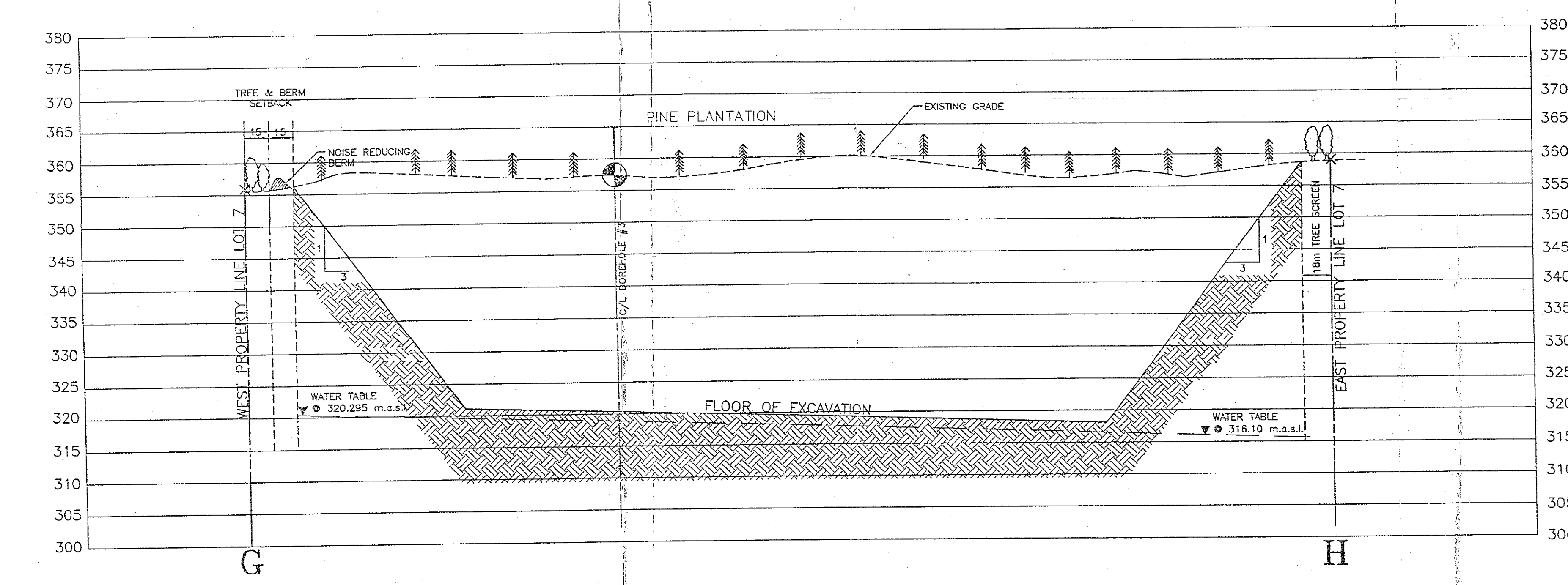
2 OF 6



NORTH - SOUTH CROSS-SECTION [A-B]
W 1/2 LOTS 7 8 9
VERT. SCALE AS SHOWN
HORIZ. SCALE 1:2000



WEST - EAST CROSS-SECTION [E-F]
WEST 1/2 LOT 8
VERT. SCALE AS SHOWN
HORIZ. SCALE 1:2000



WEST - EAST CROSS-SECTION [G-H]
WEST 1/2 LOT 7
VERT. SCALE AS SHOWN
HORIZ. SCALE 1:2000

NOTES:

1. SLOPE BENCHING DETAIL WILL BE FOUND ON DRAWING 4 OF 6.
2. EXACT DETAILS OF EXCAVATION WILL BE DETERMINED BY GEOLOGICAL AND GROUND WATER CONDITIONS, AS FOUND DURING EXCAVATION AND AS APPROVED BY MINISTRY OF NATURAL RESOURCES.

ADDITIONAL NOTES

NOISE MONITORING AND MITIGATION

THE ENFORCEMENT OF NOISE REGULATION FALLS UNDER THE JURISDICTION OF THE MINISTRY OF THE ENVIRONMENT.

AS RECOMMENDED BY THE NOISE CONSULTANT (REFERENCED ON DRAWING 1 OF 6), THE FOLLOWING MEASURES PERTAINING TO NOISE MITIGATION WILL BE TAKEN:

- a) NOISE REDUCING BERMS AS DETAILED ON DRAWING 2 OF 6 WILL BE CONSTRUCTED AND WILL BE MAINTAINED FOR THE LIFE OF THE PIT.
- b) FRONT END LOADER RESTRICTIONS AS SHOWN ON DRAWING 2 OF 6 WILL BE FOLLOWED.
- c) THE ENTRANCE ROAD FROM THE 7TH LINE TO THE SCALE HOUSE WILL BE PAVED. THE ROAD WILL BE WELL MAINTAINED AND FREE OF POTHOLES AND DISTURBANCES FOR A DISTANCE OF 200 m FROM THE 7TH LINE.
- d) THE CRUSHER WILL BE INSTALLED UNDERGROUND AS DETAILED ON DRAWING 2 OF 6.
- e) ALL EQUIPMENT WILL MEET THE NOISE GUIDELINE NPC-115.
- f) MONITORING OF NOISE LEVELS DURING PIT START-UP WILL BE PERFORMED TO ENSURE THAT THE SOUND LEVEL LIMITS AS OUTLINED IN THE NOISE STUDY (REFERENCE 8 ON DRAWING 1 OF 6) AND AS REQUIRED BY THE MINISTRY OF THE ENVIRONMENT, ARE SATISFIED.
- g) EXTRACTION WILL PROGRESS SEQUENTIALLY FROM STAGE 1 TO STAGE 5.
- h) PIT FACES AND TEMPORARY STOCKPILES WILL BE KEPT BETWEEN EQUIPMENT AND RESIDENCES TO THE GREATEST EXTENT AS POSSIBLE.
- i) THE LICENCEE WILL RESPOND TO OBJECTIONS RELATING TO NOISE BY RESIDENTS, THE MINISTRY OF NATURAL RESOURCES OR THE MOE. IF DEEMED NECESSARY BY THE MOE, LICENCEE WILL MONITOR AND MITIGATE NOISE IMPACTS OF THE OPERATION.
- j) SHOULD MONITORING ESTABLISH THAT EXCESSIVE NOISE LEVELS EXIST, THE LICENCEE WILL IMPLEMENT ADDITIONAL MITIGATION MEASURES.

NOTE REGARDING MEETING WITH LOCAL RESIDENTS

THE OPERATOR AGREES, AT THE REQUEST OF THE MINISTRY OF NATURAL RESOURCES, TO MEET WITH ANY RESIDENT OR RESIDENTS OF THE MUNICIPALITY WITH RESPECT TO ANY CONCERN OVER ANY INDIVIDUAL PIT OPERATION OR THE RESULTS OF CUMULATIVE PIT OPERATION AND REHABILITATION.

ISSUES PERTAINING TO GROUNDWATER

THE ENFORCEMENT OF GROUNDWATER REGULATION FALLS UNDER JURISDICTION OF THE MINISTRY OF THE ENVIRONMENT.

AS RECOMMENDED BY THE HYDROGEOLOGICAL CONSULTANT (REFERENCED ON DRAWING 1 OF 6), THE FOLLOWING MEASURES PERTAINING TO GROUNDWATER WILL BE TAKEN:

- a) BI-MONTHLY MONITORING OF WATER TABLE FOR FIRST YEAR OF OPERATION AND QUARTERLY READING THEREAFTER. WELLS TO BE INCLUDED IN MONITORING PROGRAM ARE M6, DC-1, DC-2, DC-4 AND DC-5.
- b) WATER SAMPLES WILL BE OBTAINED FROM MONITORS M6 AND DC-4 PRIOR TO COMMENCEMENT OF EXCAVATION. SAMPLES WILL BE ANALYZED FOR MAJOR IONS, PH, CONDUCTIVITY AND ALKALINITY.
- c) WITH PERMISSION OF THE OWNERS, WATER LEVELS IN DOMESTIC WELLS WITHIN 300 m OF THE SITE WILL BE MEASURED PRIOR TO COMMENCEMENT OF EXTRACTION.
- d) ADDITIONAL HYDROGEOLOGICAL INVESTIGATIONS AND A PERMIT TO TAKE WATER WILL BE OBTAINED PRIOR TO THE COMMENCEMENT OF WASHING OPERATIONS. A MONITORING WELL WILL BE INSTALLED IN THE SAME AQUIFER FROM WHICH THE WASH WATER WILL BE EXTRACTED.
- e) ADDITIONAL MONITORING STATIONS WILL BE ADDED AS EXTRACTION ACTIVITY PROCEEDS IF DEEMED NECESSARY THROUGH CONSULTATION WITH THE MINISTRY OF NATURAL RESOURCES AND/OR THE MINISTRY OF THE ENVIRONMENT.
- f) ALL MONITORING DATA WILL BE MADE AVAILABLE TO THE GOVERNMENT AGENCIES UPON REQUEST.
- g) WITH PERMISSION OF THE HOME OWNERS, WATER SAMPLES FROM DOMESTIC WELLS WITH 300 m OF THE SITE WILL BE OBTAINED AND ANALYZED FOR PARAMETERS SUCH AS: GENERAL CHEMISTRY, PHENOLS, LUBRICANTS, FUELS AND SOLVENTS.
- h) IN THE EVENT OF A CONTAMINANT SPILL, THE LICENCEE WILL INVOKE SPILL CONTINGENCY MEASURES AS OUTLINED IN THE RECOMMENDED PROCEDURES FOR PREVENTION AND MITIGATION OF CONTAMINANT SPILLS IN GRAVEL PITS.

DUST CONTROL MEASURES

THE ENFORCEMENT OF DUST REGULATIONS FALLS UNDER THE JURISDICTION OF THE MINISTRY OF THE ENVIRONMENT.

THE FOLLOWING MEASURES PERTAINING TO DUST MITIGATION WILL BE TAKEN BY THE LICENCEE:

- a) WATER AND/OR MOE APPROVED DUST SUPPRESSANTS WILL BE USED AS REQUIRED TO CONTROL DUST. THE APPLICATION OF DUST SUPPRESSANTS WILL BE CONDUCTED IN ACCORDANCE WITH MOE POLICY 13-08.
- b) CONSTRUCT AND MAINTAIN BERMS AS SHOWN ON FIGURE 2 OF 6.
- c) CONDUCT PROCESSING OPERATIONS AT THE LOWEST POSSIBLE ELEVATIONS.
- d) LIMIT STOCKPILES TO HEIGHT OF 12 METRES.
- e) RESPOND TO OBJECTIONS RELATING TO DUST BY RESIDENTS, THE MNR AND/OR THE MOE. DUST MITIGATION MEASURES AND/OR DUST MONITORING WILL BE ADDED IF DEEMED NECESSARY BY THE MOE.
- f) THE ENTRANCE ROAD TO THE PIT WILL BE PAVED FROM THE 7TH LINE TO THE SCALE HOUSE AND THE PAVEMENT WILL BE CLEANED DAILY IF NEEDED.
- g) LICENCEE WILL FEED MATERIAL DIRECTLY FROM EXTRACTION FACE TO CRUSHER.

KEY PLAN 1:100,000
SCALE 0 1 2 3 4 km

METRIC
DIMENSIONS AND ELEVATIONS
ARE IN METRES UNLESS
OTHERWISE SHOWN

LEGEND

- X WIRE FENCE
- BORHOLE
- BORHOLE WITH MONITOR
- ESTIMATED FINAL POND ELEVATION
- GROUNDWATER ELEVATION (JULY 1997)

I ACKNOWLEDGE AND SHALL CARRY ON MY OPERATION IN ACCORDANCE WITH THIS SITE PLAN UPON WHICH MY LICENCE IS BASED.

LICENCEE/APPLICANT

DATE

SITE PLANS APPROVED BY
MINISTRY OF NATURAL RESOURCES

SIGNATURE

DATE

SCALE 1:2000
40 20 0 50 100m

NO.	DATE	DESCRIPTION
1	JAN. 99	OMB APPROVAL
2		
3		
4		
5		

REVISION

KEEWATIN-ASKI LTD
CONSULTING ENGINEERS

DECLARATION OF PURPOSE

THIS SITE PLAN IS PREPARED FOR SUBMISSION TO THE MINISTRY OF NATURAL RESOURCES IN CONNECTION WITH AN APPLICATION FOR A CLASS "A" LICENCE UNDER THE MINERAL RESOURCES ACT AND REGULATIONS.

PROJECT
JAMES DICK CONSTRUCTION
SAND AND GRAVEL PIT, ORO

WEST 1/2 LOT 8, CONCESSION 7
WEST 1/2 LOT 8, CONCESSION 7
EAST 1/2 LOT 8, CONCESSION 7
TOWNSHIP OF ORO
COUNTY OF SIMCOE

APPLICANT
JAMES DICK CONSTRUCTION LIMITED
P.O. BOX 470
BELLINGHAM, ONTARIO
L7E 5T4

DRAWING TITLE
TYPICAL CROSS-SECTIONS
EAST - WEST
NORTH - SOUTH

DESIGN A.R./P.L./S.O.
DRAWN P.L./P.S./S.W.

DATE 01/12/99
DATE JAN. 12, 1999

PROJECT NUMBER
89651

DRAWING NUMBER
5 OF 6

