

HOGGAN ENGINEERING & TESTING (1980) LTD.

APPENDIX

HOGGAN ENGINEERING & TESTING (1980) LTD.

APPENDIX I
-Site Sketch

NORTH



ZONE 2
(TES)



BOOSTER
PUMPHOUSE

TRUNK MAIN
(OFF-SITE)

HAMILTON
BLVD.

Proposed Water Trunk Line
Refer to HOGGAN
Report #8002-121B

HOGGAN ENGINEERING & TESTING (1980) LT
TestHole Locations
HillCrest "D" Subdivision
Report #8002-121A
February, 1993

HILLCREST AREA 'D' SUBDIVISION
WHITEHORSE, YUKON

PREDESIGN COST DIVISIONS

FIGURE 9-1



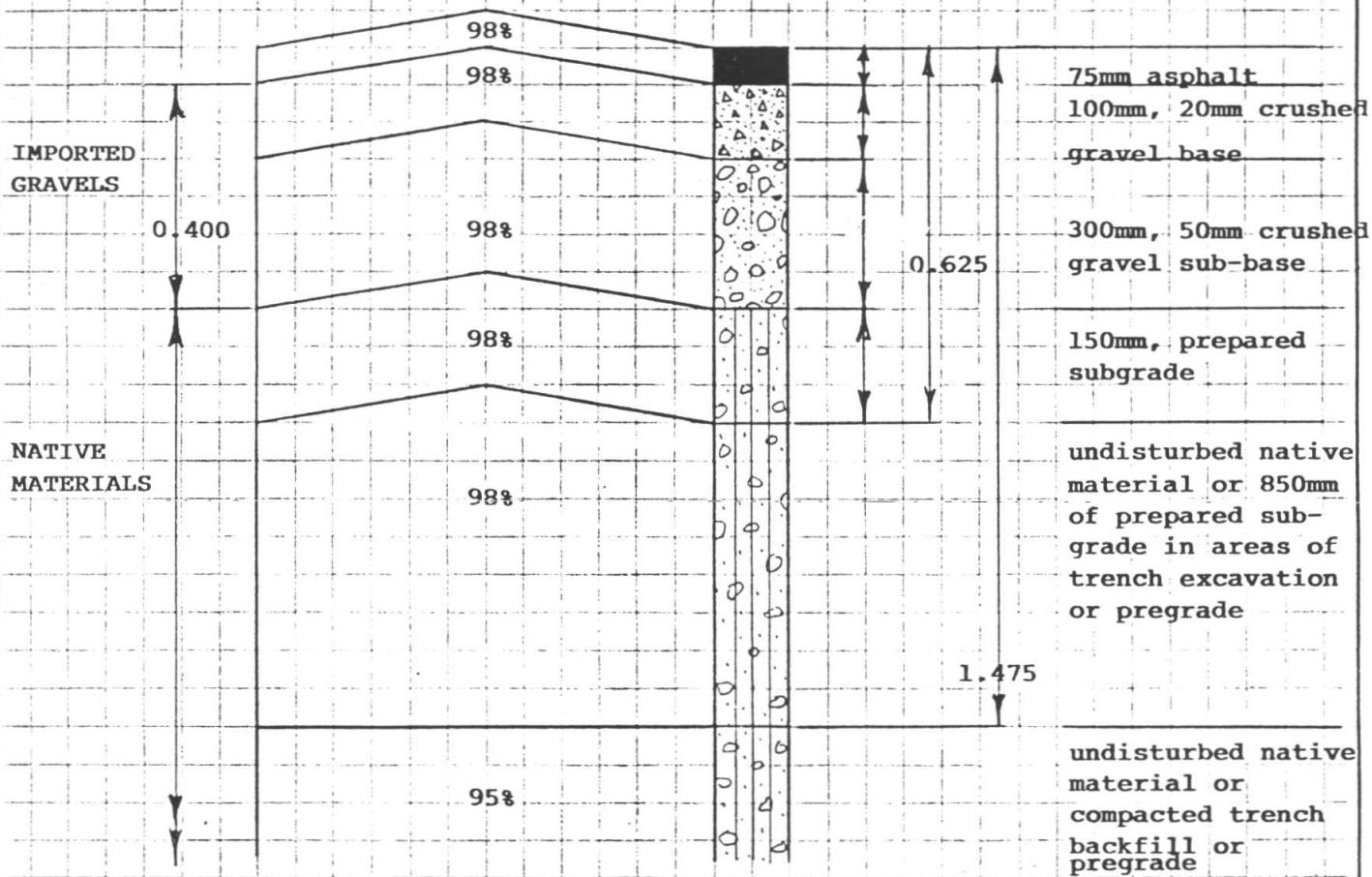
uma

HOGGAN ENGINEERING & TESTING (1980) LTD.

APPENDIX II
-Pavement Structure Sketches (2)

TYPICAL ROAD STRUCTURE "A"

(For major collector and arterial roads)



- Asphaltic concrete may be placed in one lift and compacted to a minimum 98% of a 50 Blow Marshall density.
- All base gravels and the top 150 millimeters of subgrade should be compacted to a minimum of 98% of corresponding Standard Proctor density at optimum moisture.
- Between 0.625 and 1.475 meters of final road grade the materials should be undisturbed native material or fill (trench backfill or pregrade) compacted to a minimum of 98% of Standard Proctor density at optimum moisture.
- Below 1.475 meters of final road grade the material should be undisturbed native material or fill (trench backfill or pregrade) compacted to 95% of Standard Proctor density.



J. R. Paine & Associates Ltd.

CONSULTING AND TESTING ENGINEERS

TYPICAL PAVEMENT STRUCTURE "A"
 PROPOSED HILLCREST "D" SUBDIVISION
 WHITEHORSE, YUKON TERRITORY

Dwn. By **AL**

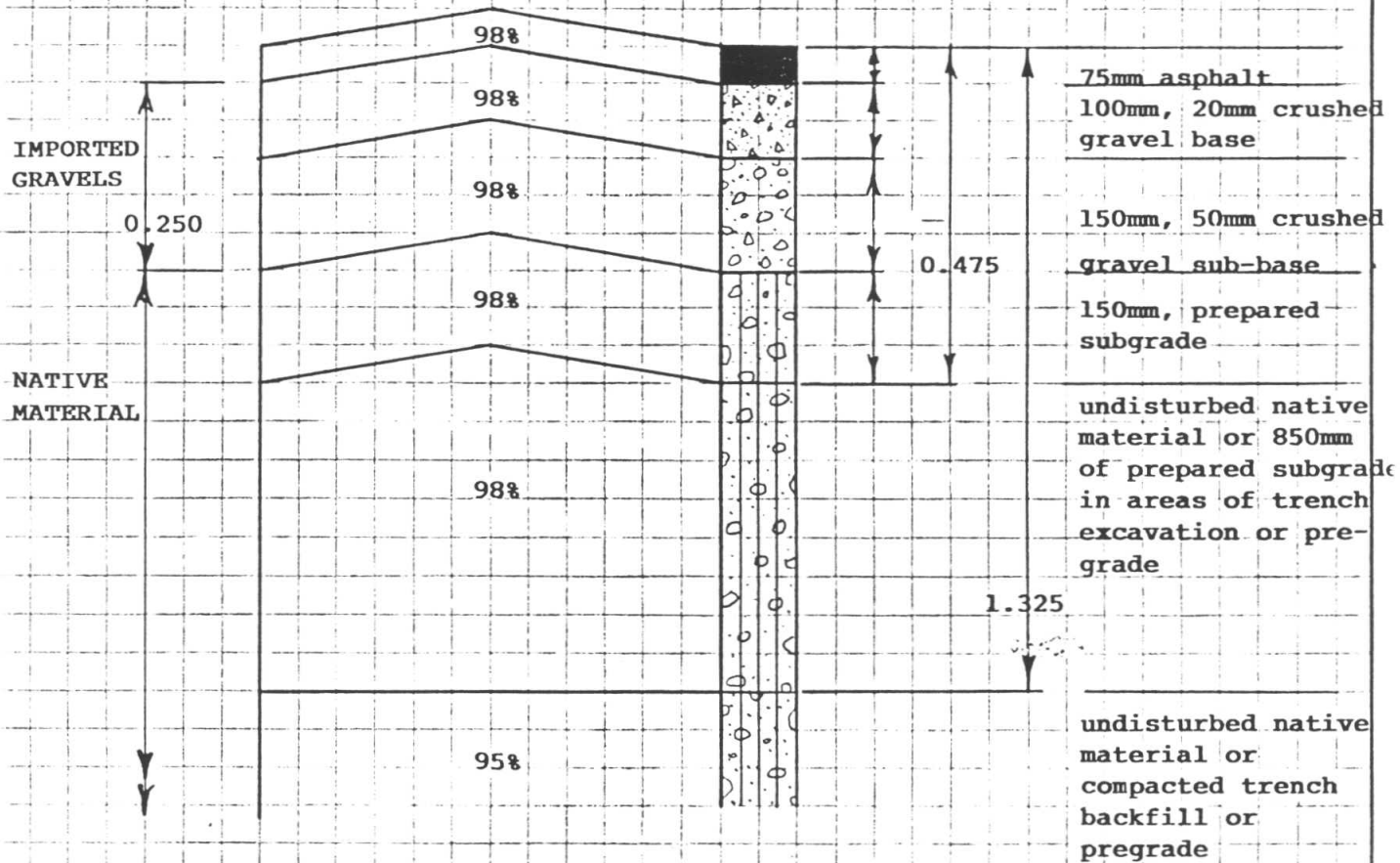
Date **1993/01**

Scale

Plate No. **1 of 2**

TYPICAL ROAD STRUCTURE "B"

(For local and minor collector roads)



- Asphaltic concrete may be placed in one lift and compacted to a minimum of 98% of a 50 Blow Marshall density.
- All base gravels and the top 150 millimeters of subgrade should be compacted to a minimum of 98% of corresponding Standard Proctor density at optimum moisture.
- Between 0.475 and 1.325 meters of final road grade the material should be undisturbed native material or fill (trench backfill or pregrade) compacted to a minimum of 98% of Standard Proctor density at optimum moisture.
- Below 1.325 meters of final road grade the material should be undisturbed native material or fill (trench backfill or pregrade) compacted to 95% of Standard Proctor density.



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CONSULTING AND TESTING ENGINEERS

TYPICAL PAVEMENT STRUCTURE "B"
 PROPOSED HILLCREST "D" SUBDIVISION
 WHITEHORSE, YUKON TERRITORY

Dwn. By AL

Date 1993/01

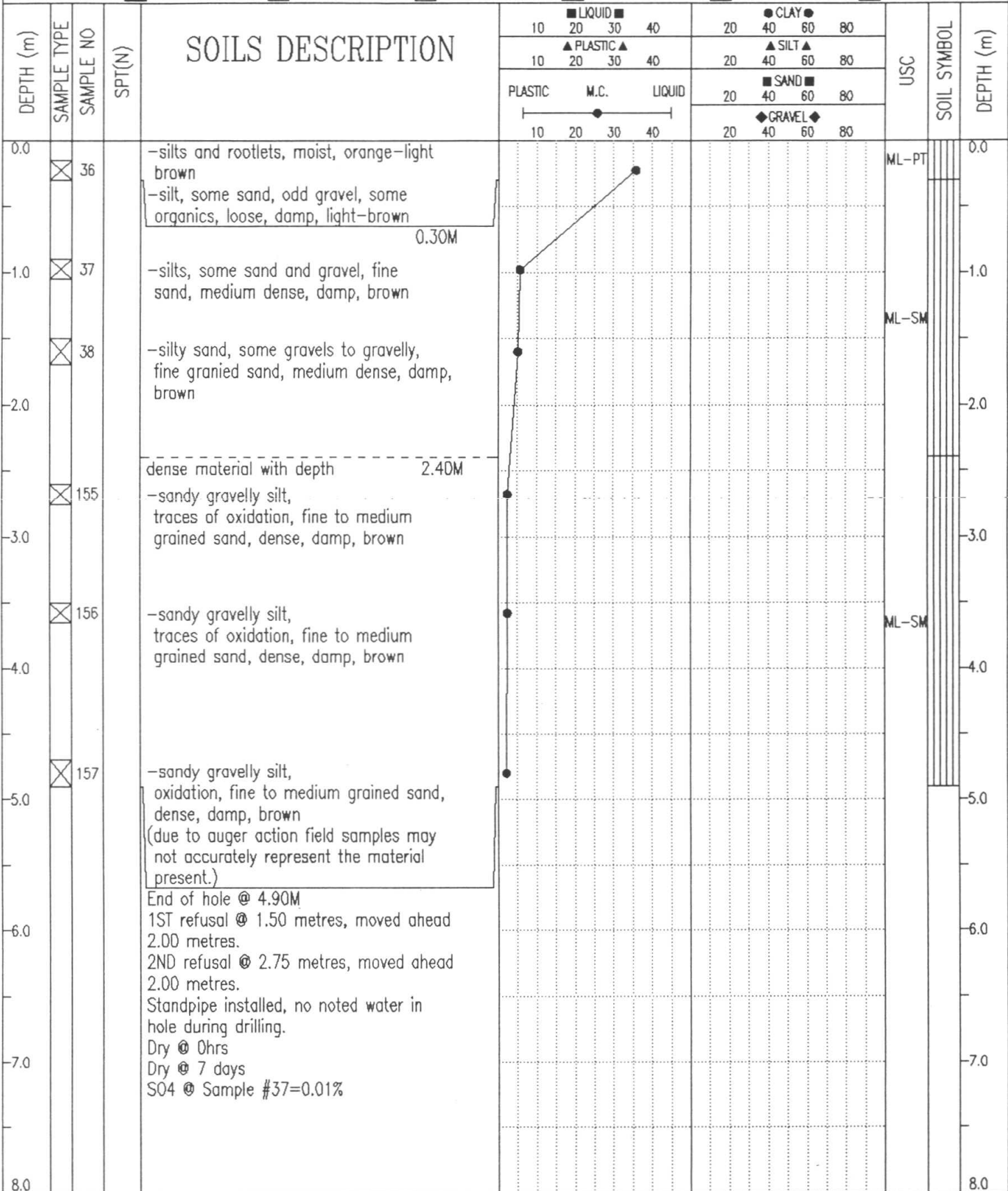
Scale

Plate No. 2 of 2

APPENDIX III
-TestHole Soils Logs
-Laboratory Test Results

YTG, C&T SERVICES, MUNICIPAL ENGINEERING	HILLCREST "D" GEOTECHNICAL INVESTIGATION	BOREHOLE No: TH#8-93
IBEX CONTRACTING LTD.	CLEARED AREA	Project No: 8002-121
C.M.E. TRACK MOUNTED DRILL	CENTRE OF PROPOSED ROADWAY	ELEVATION: 0.0 (m)

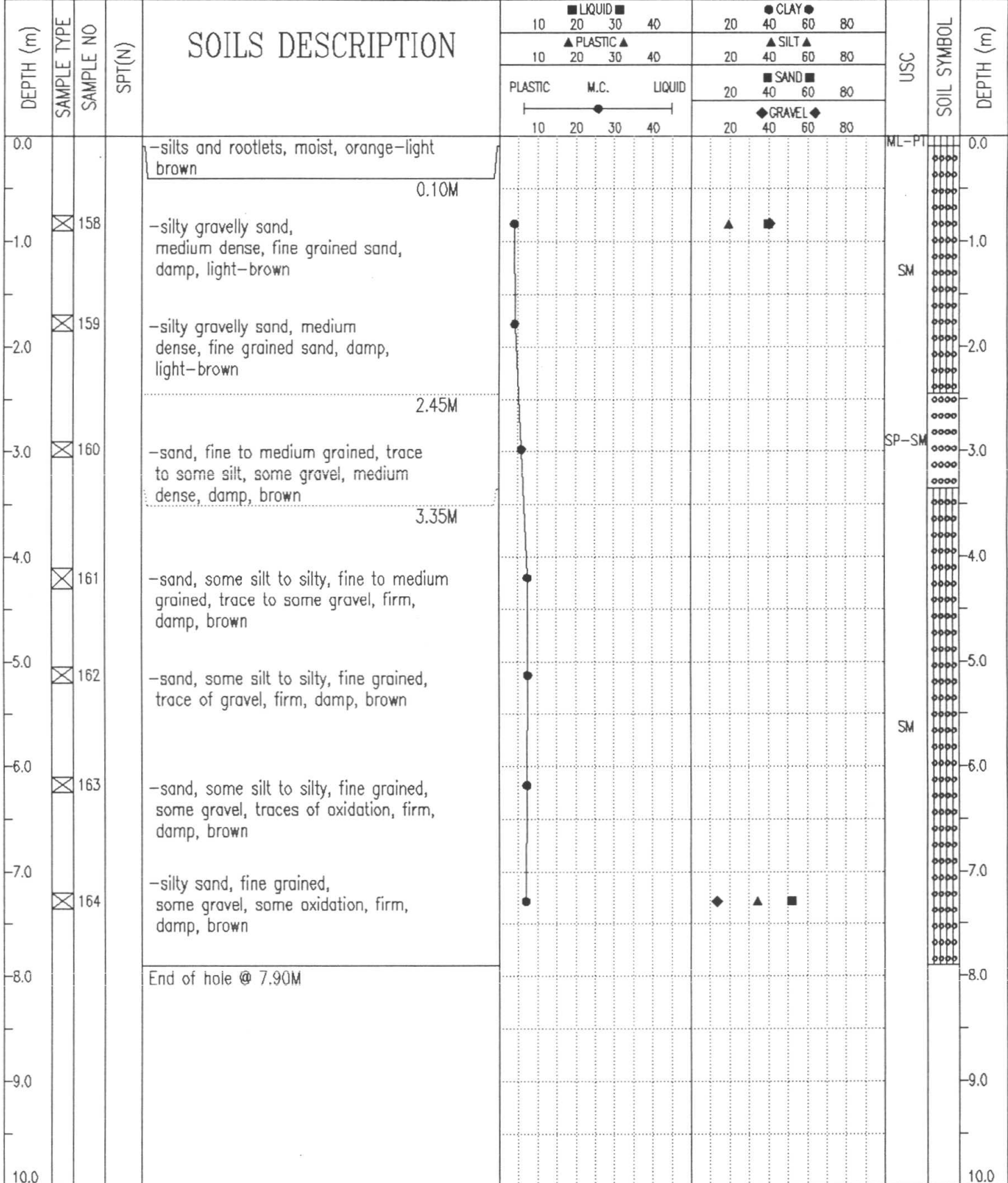
SAMPLE TYPE TUBE LOST AUGER BULK SPT CORE



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Edmonton, Alberta

LOGGED BY: MJK / MB	COMPLETION DEPTH: 4.9 m
REVIEWED BY: AL	COMPLETE: 93/01/18
Fig. No: 8	Page 1 of 1

YTG, C&T SERVICES, MUNICIPAL ENGINEERING	HILLCREST "D" GEOTECHNICAL INVESTIGATION	BOREHOLE No: TH#9-93
IBEX CONTRACTING LTD.	CLEARED AREA	Project No: 8002-121
C.M.E. TRACK MOUNTED DRILL	CENTRE OF PROPOSED ROADWAY	ELEVATION: 0.0 (m)
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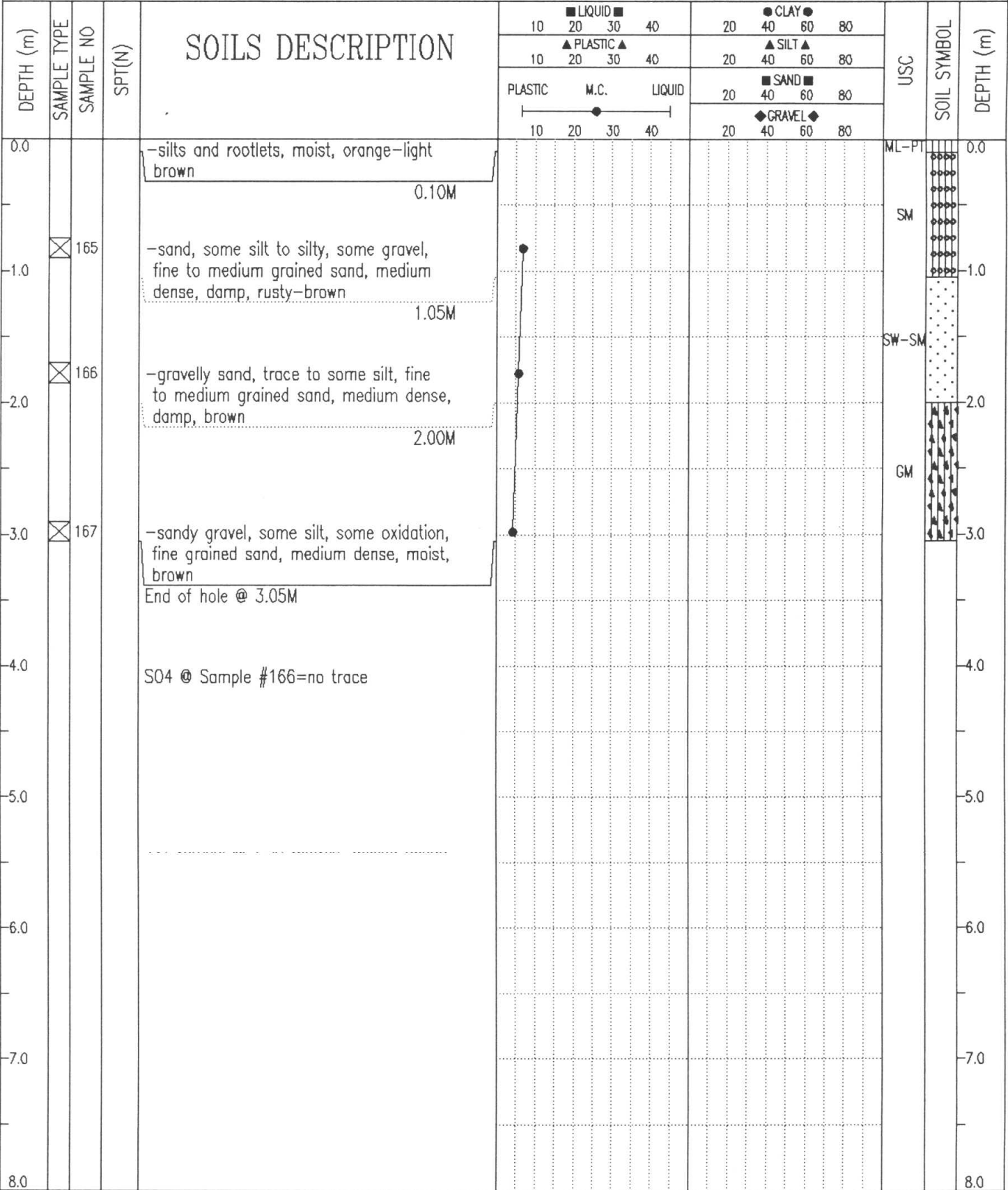
J.R. Paine & Associates Ltd.
Edmonton, Alberta

LOGGED BY: MJK / MB
REVIEWED BY: AL
Fig. No: 9

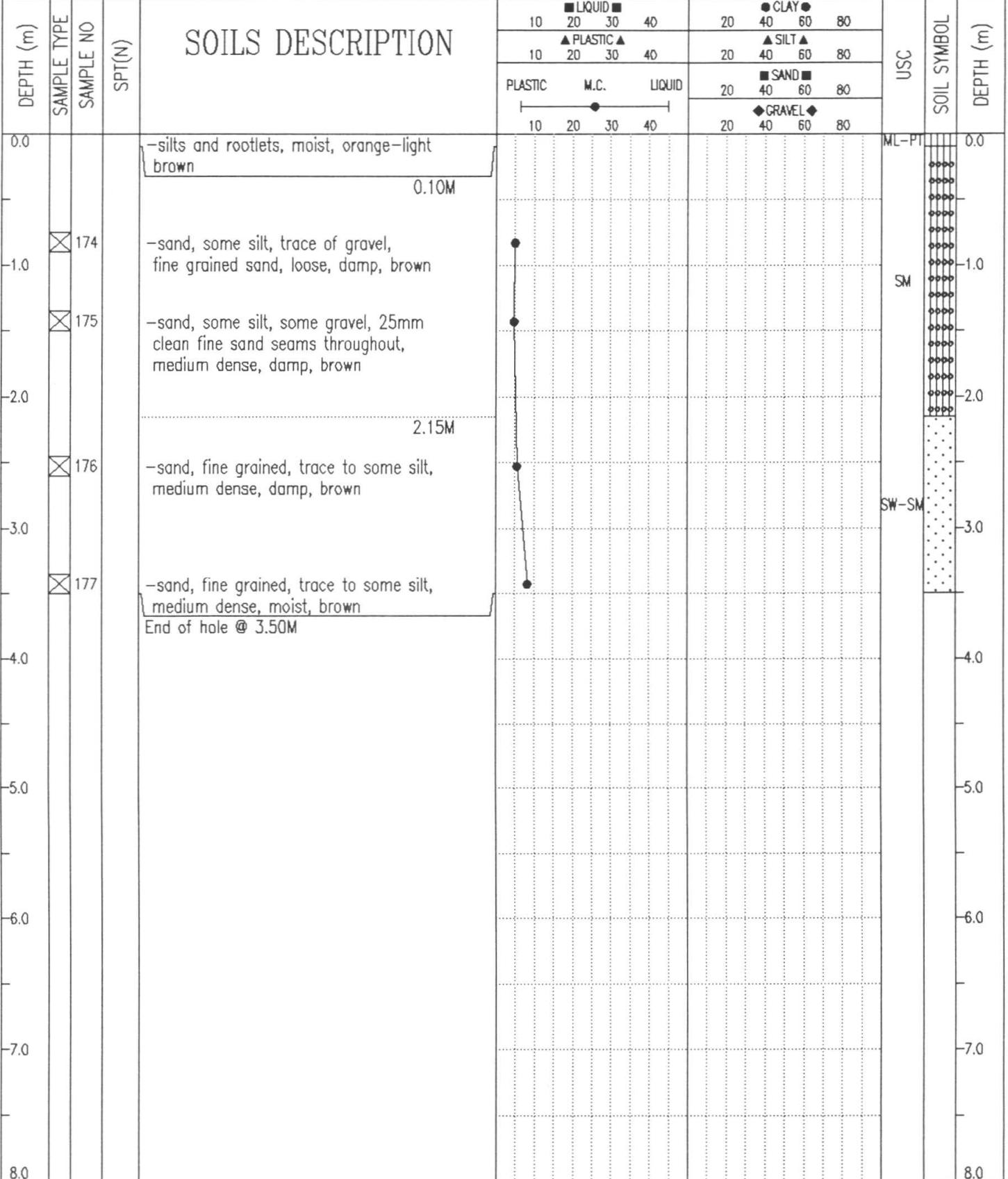
COMPLETION DEPTH: 7.9 m
COMPLETE: 93/01/18

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IBEX CONTRACTING LTD.	CLEARED AREA	Project No: 8002-121
C.M.E. TRACK MOUNTED DRILL	CENTRE OF PROPOSED ROADWAY	ELEVATION: 0.0 (m)

SAMPLE TYPE TUBE LOST AUGER BULK SPT CORE



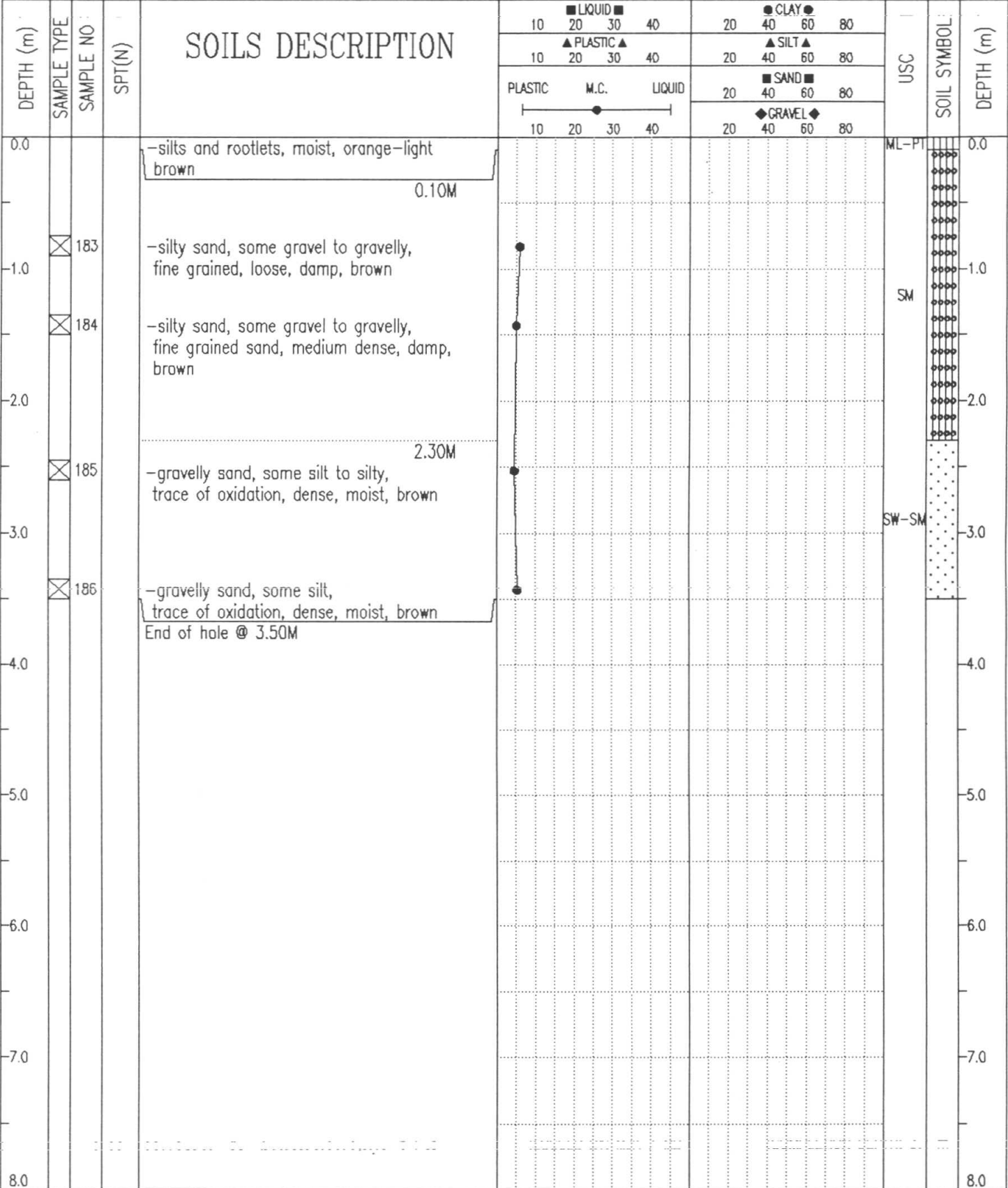
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IBEX CONTRACTING LTD.	CLEARED AREA	Project No: 8002-121
C.M.E. TRACK MOUNTED DRILL	CENTRE OF PROPOSED ROADWAY	ELEVATION: 0.0 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> TUBE <input type="checkbox"/> LOST <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> SPT <input type="checkbox"/> CORE	



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LOGGED BY: MJK / MB	COMPLETION DEPTH: 3.5 m
REVIEWED BY: AL	COMPLETE: 93/01/18
Fig. No: 11	Page 1 of 1

YTG, C&T SERVICES, MUNICIPAL ENGINEERING	HILLCREST "D" GEOTECHNICAL INVESTIGATION	BOREHOLE No: TH#12-93
IBEX CONTRACTING LTD.	CLEARED AREA	Project No: 8002-121
C.M.E. TRACK MOUNTED DRILL	CENTRE OF PROPOSED ROADWAY	ELEVATION: 0.0 (m)
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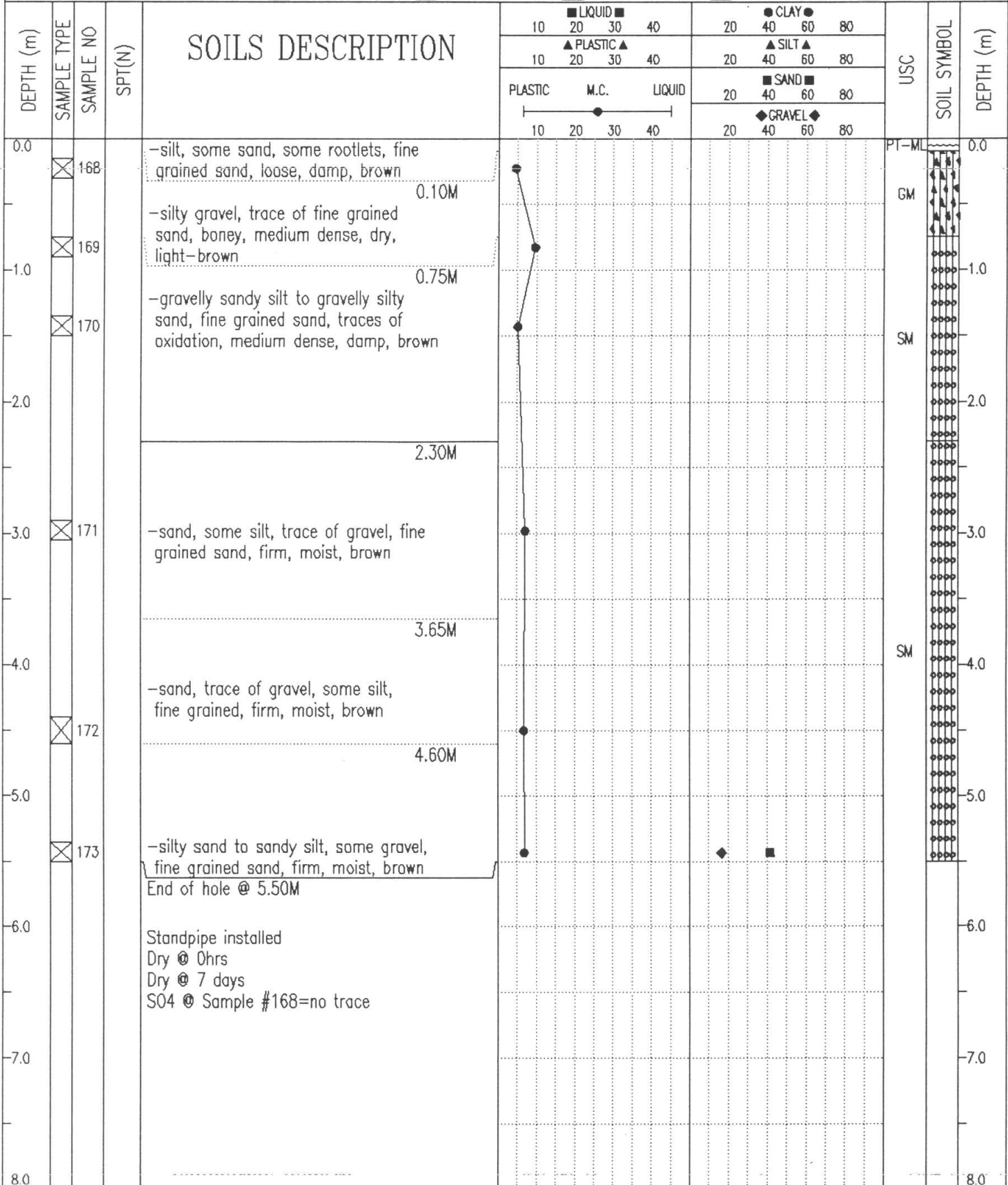


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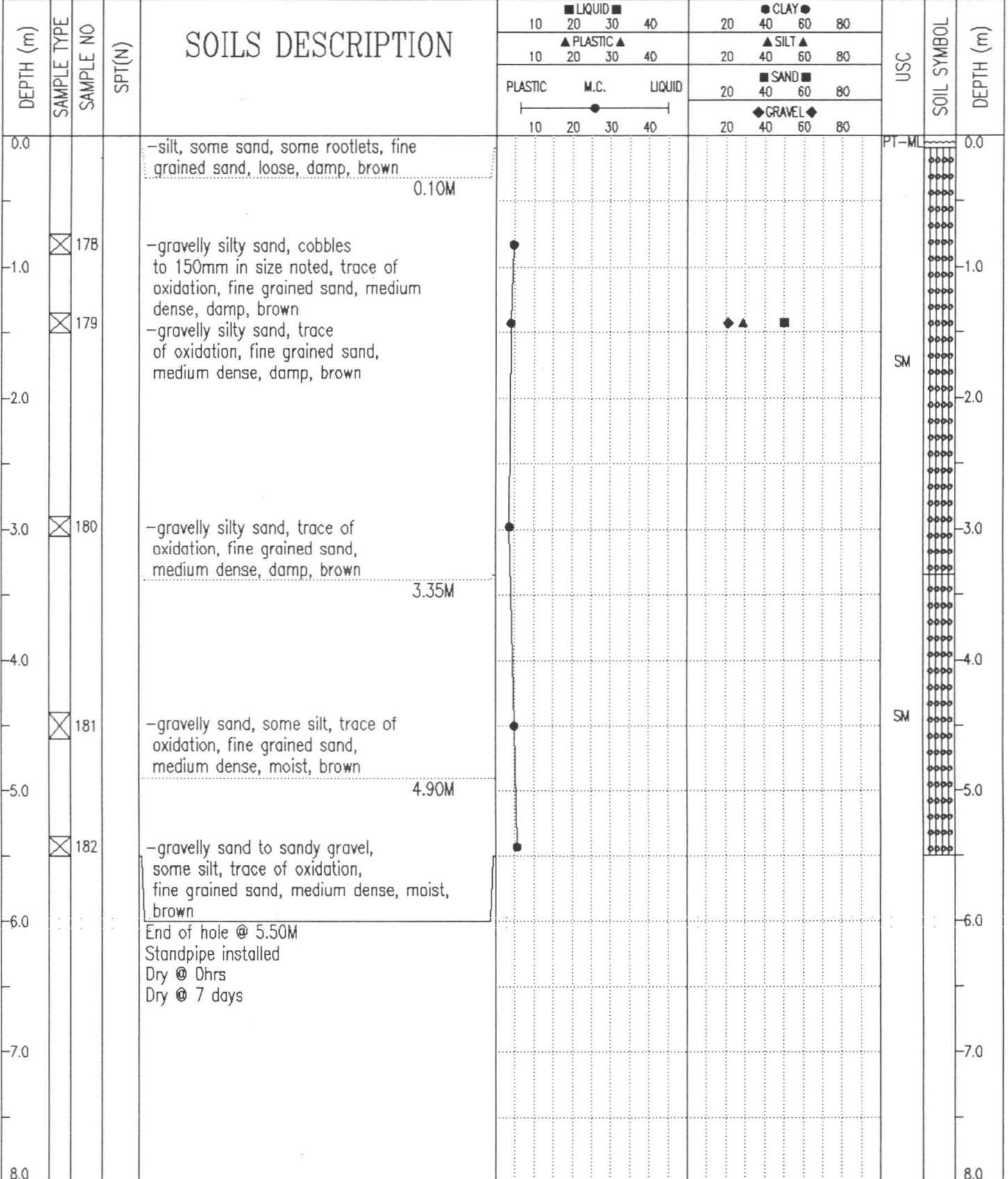
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REVIEWED BY: AL
Fig. No: 12

COMPLETION DEPTH: 3.5 m
COMPLETE: 93/01/18

YTG, C&T SERVICES, MUNICIPAL ENGINEERING		HILLCREST "D" GEOTECHNICAL INVESTIGATION		BOREHOLE No: TH#13-93						
IBEX CONTRACTING LTD.		CLEARED AREA		Project No: 8002-121						
C.M.E. TRACK MOUNTED DRILL		CENTRE OF PROPOSED ROADWAY		ELEVATION: 0.0 (m)						
SAMPLE TYPE <input checked="" type="checkbox"/> TUBE		<input checked="" type="checkbox"/> LOST		<input checked="" type="checkbox"/> AUGER						
		<input type="checkbox"/> BULK		<input type="checkbox"/> SPT						
				<input type="checkbox"/> CORE						
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SPT(N)	SOILS DESCRIPTION				USC	SOIL SYMBOL	DEPTH (m)
				PLASTIC	M.C.	LIQUID				
				<input type="checkbox"/> LIQUID <input type="checkbox"/> CLAY <input type="checkbox"/> PLASTIC <input type="checkbox"/> SILT <input type="checkbox"/> SAND <input type="checkbox"/> GRAVEL						
0.0				-silts and rootlets, moist, orange-light brown				ML-PT	0.0	
				0.10M						
-1.0	<input checked="" type="checkbox"/>	187		-gravelly sand, some silt, traces of oxidation, loose, damp, brown				SM	-1.0	
	<input checked="" type="checkbox"/>	188		-gravelly sand, some silt, traces of oxidation, medium dense, damp, brown						
				1.85M						
-3.0	<input checked="" type="checkbox"/>	189		-gravelly sand, some silt, trace of oxidation, fine to medium grained sand, medium dense, damp, brown				SM-GM	-3.0	
	<input checked="" type="checkbox"/>	190		-gravelly sandy silt to gravelly silty sand, fine grained sand, trace of oxidation, medium dense, damp, brown					4.0	
				End of hole @ 4.00M						
-5.0									-5.0	
-6.0									-6.0	
-7.0									-7.0	
-8.0									-8.0	
J.R. Paine & Associates Ltd. Edmonton, Alberta				LOGGED BY: MJK / MB		COMPLETION DEPTH: 4.0 m				
				REVIEWED BY: AL		COMPLETE: 93/01/18				
				Fig. No: 13				Page 1 of 1		



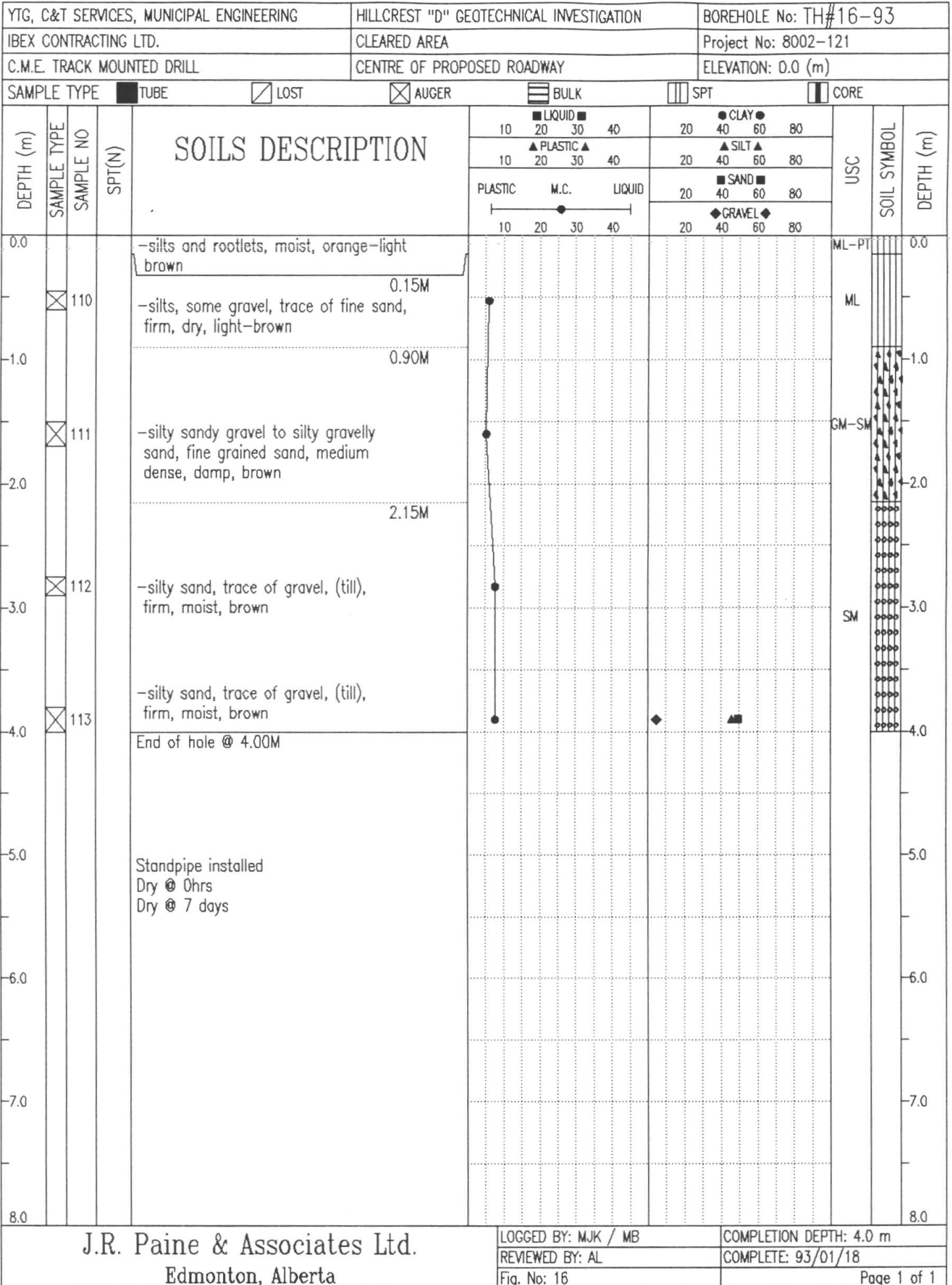
YTG, C&T SERVICES, MUNICIPAL ENGINEERING	HILLCREST "D" GEOTECHNICAL INVESTIGATION	BOREHOLE No: TH#15-93
IBEX CONTRACTING LTD.	CLEARED AREA	Project No: 8002-121
C.M.E. TRACK MOUNTED DRILL	CENTRE OF PROPOSED ROADWAY	ELEVATION: 0.0 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> TUBE <input type="checkbox"/> LOST <input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK <input type="checkbox"/> SPT <input type="checkbox"/> CORE



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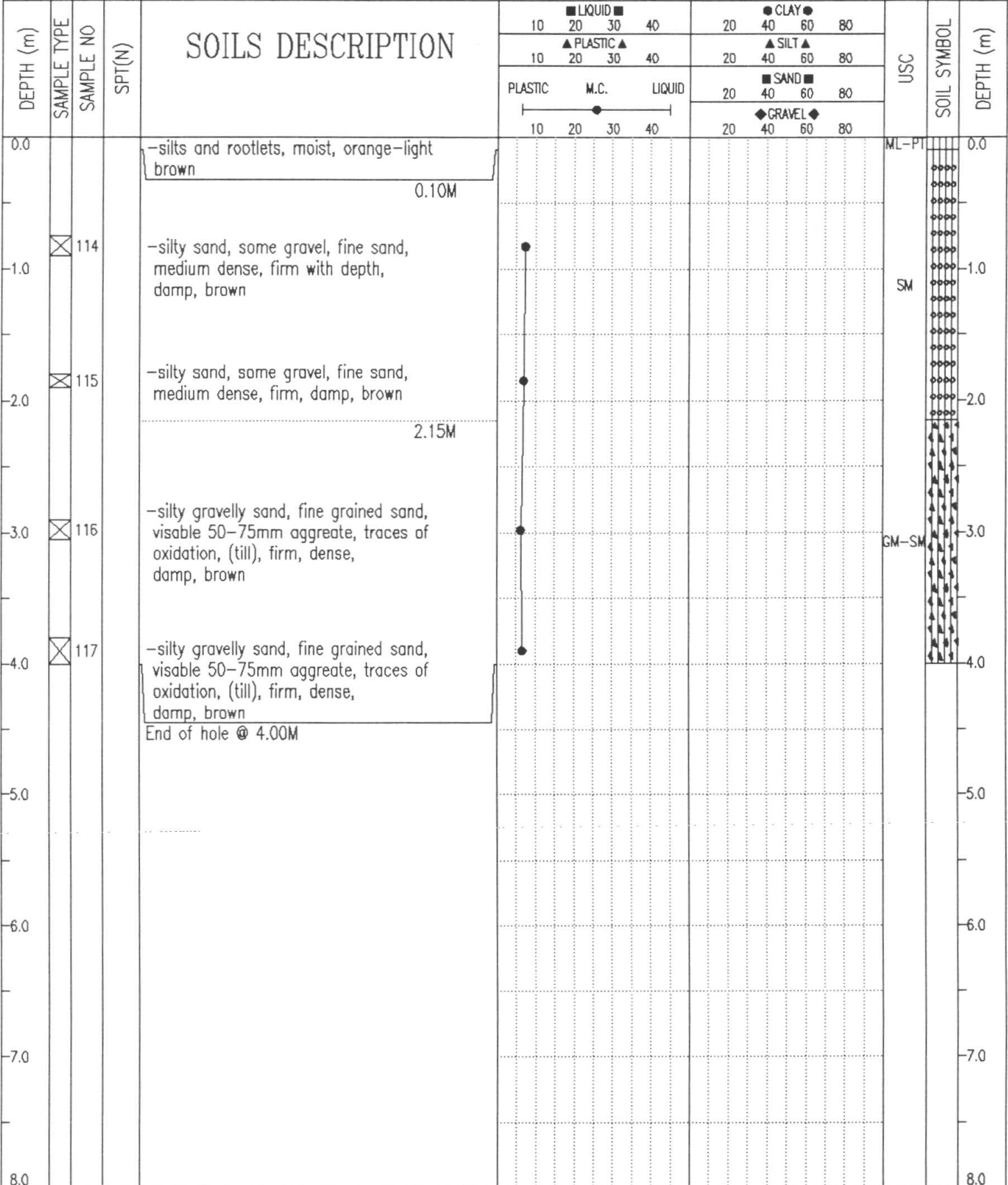
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REVIEWED BY: AL
Fig. No: 27

COMPLETION DEPTH: 5.5 m
COMPLETE: 93/01/18



YTG, C&T SERVICES, MUNICIPAL ENGINEERING	HILLCREST "D" GEOTECHNICAL INVESTIGATION	BOREHOLE No: TH#17-93
IBEX CONTRACTING LTD.	CLEARED AREA	Project No: 8002-121
C.M.E. TRACK MOUNTED DRILL	CENTRE OF PROPOSED ROADWAY	ELEVATION: 0.0 (m)

SAMPLE TYPE TUBE LOST AUGER BULK SPT CORE



J.R. Paine & Associates Ltd.
Edmonton, Alberta

LOGGED BY: MJK / MB
REVIEWED BY: AL
Fig. No: 17

COMPLETION DEPTH: 4.0 m
COMPLETE: 93/01/18