

STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES

DIVISION OF WATER AND LAND DEVELOPMENT
FOR

DIVISION OF FORESTRY AND WILDLIFE

JOB NO. 63-HF-E1

STATE TREE NURSERY

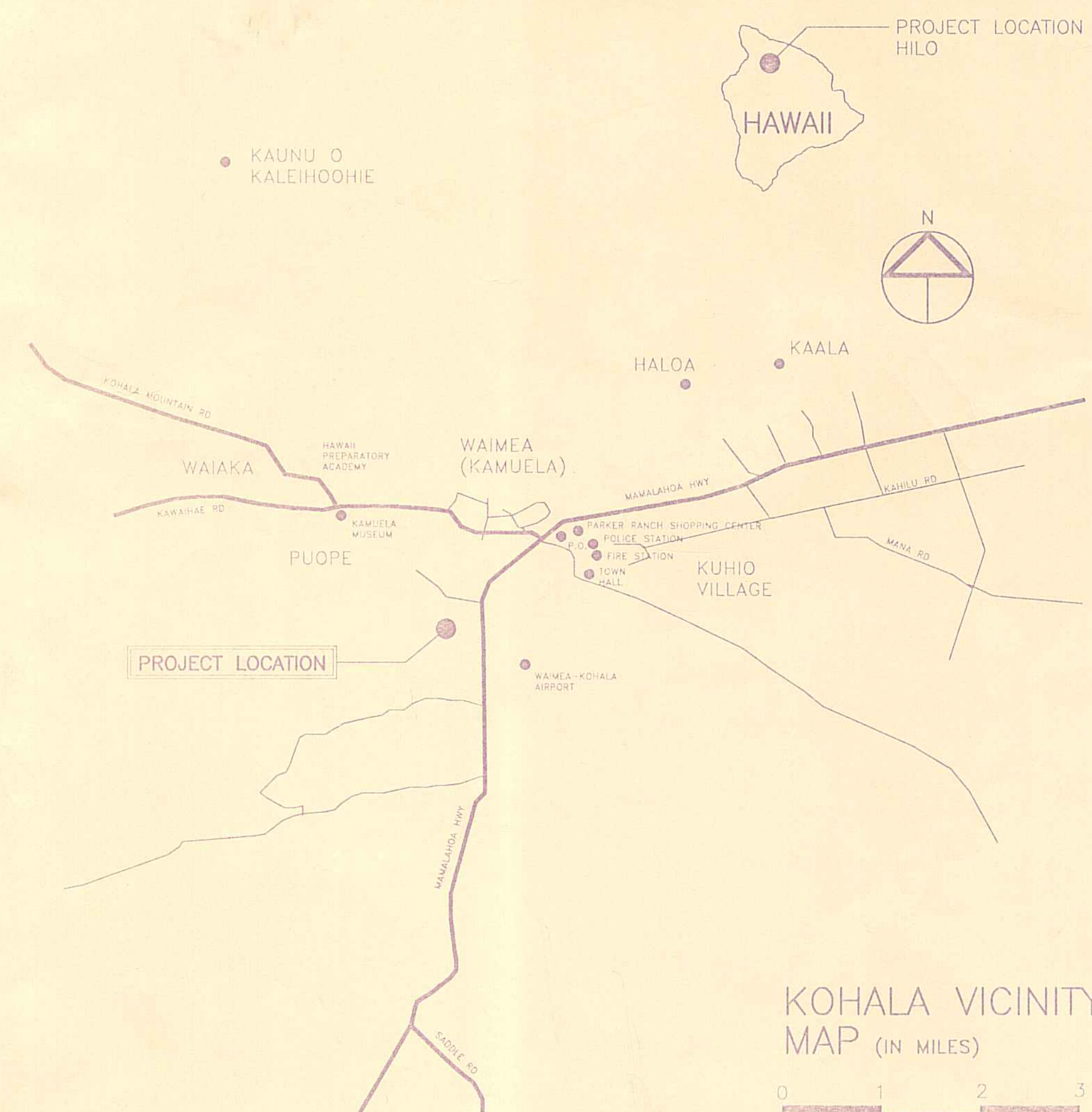
OPERATIONS BUILDING

LALAMILO, SOUTH KOHALA, HAWAII

TAX MAP KEY: 6-6-05:1

ACT 300, SLH 1992, ITEM A-7, B-92-400-C

PROJECT LOCATION MAP



ARCHITECT

OKITA KUNIMITSU & ASSOCIATES, INC.

CIVIL ENGINEER
RICHARD SATO ASSOCIATES

STRUCTURAL ENGINEER
YUJI KASAMOTO, INC.

MECHANICAL ENGINEER
RANDOLPH H. MURAYAMA & ASSOCIATES, INC.

ELECTRICAL ENGINEER
WALLACE T. OKI, P.E., INC.

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APPROVALS

Michael G. Buck
MICHAEL G. BUCK
ADMINISTRATOR
DIVISION OF FORESTRY AND WILDLIFE
DEPARTMENT OF LAND AND NATURAL RESOURCES

DATE

Manabu Tagomori
MANABU TAGOMORI, P.E.
MANAGER - CHIEF ENGINEER
DIVISION OF WATER AND LAND DEVELOPMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES

DATE

ABBREVIATIONS

& / @ L E #	AND ANGLE AT CENTERLINE CHANNEL DIAMETER OR ROUND POUND OR NUMBER	F.A. F.B. F.D. FE F.F.E. F/H FIN. FIXT. FL. FLAM FLASH. FLUOR. F.N.D. F.O. F.O.C. F.O.F. F.O.S FPRF. FR. F.R.P. FRZR F.S. FT. FTG. FURR. FUT.	FIRE ALARM FLAT BAR FLOOR DRAIN FIRE EXTINGUISHER (SURFACE MTD.) FINISH FLOOR ELEVATION FLAT HEAD FINISH FIXTURE FLOOR FLAMMABLE FLASHING FLUORESCENT FEMININE NAPKIN DISPOSAL FACE OF FACE OF CONCRETE FACE OF FINISH FACE OF STUDS FIREPROOF FRAME FIBER REINFORCED PLASTIC FREEZER FULL SIZE OR FLOOR SINK FOOT OR FEET FOOTING FURRING FUTURE
A.B. ABV. A.C.	ANCHOR BOLT ABOVE AIR CONDITIONING/ ALTERNATING CURRENT	G GA. CAL. GALV. G.B. GL. G.M.M.U. GND. GR. GYP.	GAS GAUGE GALLON GALVANIZED GRAB BAR GLASS GLASS MESH MORTAR UNIT GROUND GRADE GYPSUM
A/C. ACCESS. ACOUS. ADJ. ADJA A.F.F. AGGR. AL. ALT. APPROX. ARCH. ANOD.	ASPHALTIC CONCRETE ACCESSIBLE ACOUSTICAL ADJUSTABLE ADJACENT ABOVE FINISH FLOOR AGGREGATE ALUMINUM ALTERNATE APPROXIMATE ARCHITECTURAL ANODIZED	H. H.B. H.C. H/C HDWE. HGT. H.M. HORIZ. H.P. HR. HT. HTR. H.W.	HIGH HOSE BIBB HOLLOW CORE HANDICAP HARDWARE HEIGHT HOLLOW METAL HORIZONTAL HORSEPOWER OR HIGH POINT HOUR. HEIGHT HEATER HOT WATER
BD. BIO BKR. BLDG. BLK. BLKG. BM. BOT. BTB B.T.U.	BOARD BIOLOGICAL BREAKER BUILDING BLOCK BLOCKING BEAM BOTTOM BASALTIC TERMITE BARRIER BRITISH THERMAL UNIT	I.D. INCL. INSUL. INT. INV.	INSIDE DIAMETER/(DIM.) INCLUDED, INCLUSIVE, OR INCLUDING INSULATION INTERIOR INVERT
CAB C.D. CEM. CER. C.F.M. C.I. CLG. C.J. CL. CLR. CMU CNTR. C.O. COL. COMP. CONC. COND. CONN. CONSTR. CONT. CONSTR. CORR. CTR. CTSK. CW	CABINET CEILING DIFFUSER CEMENT CERAMIC CUBIC FEET PER MINUTE CAST IRON CEILING CONTROL JOINT CLOSET CLEAR CONCRETE MASONRY UNIT COUNTER CLEAN OUT/CASED OPENING COLUMN COMPRESSOR CONCRETE CONDITION CONNECTION CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR CENTER COUNTERSUNK COLD WATER	J.B. JST. JT.	JUNCTION BOX JOIST JOINT
D. DBL. DET. D.F. DIA. DIAG. DIM. DISP. DN. DR. D.S. DWG. DWR.	DEEP/DEPTH DOUBLE DETAIL DRINKING FOUNTAIN DIAMETER DIAGONAL DIMENSION DISPENSER DOWN DOOR DOWNSPOUT DRAWING DRAWER	LAM. LAV. LT. LTG.	LAMINATE LAVATORY LIGHT LIGHTING
E. EA. E.A.R. E.F. E.J. EL. ELEC. EMER. ENCL. EQ. EQPT. EXP. EXPO. EXST. EXT.	EAST EACH EXHAUST AIR REGISTER EXHAUST FAN EXPANSION JOINT ELEVATION ELECTRICAL EMERGENCY ENCLOSURE EQUAL EQUIPMENT EXPANSION EXPOSED EXISTING EXTERIOR	MAT'L MAX. M/B.H. MECH. MEMB. MET. MFR. MH. MIN. MIR. MISC. MTD. MTG. MUL.	MATERIAL MAXIMUM MOP/ BROOM HOLDER MECHANICAL MEMBRANE METAL MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MOUNTED MOUNTING MULLION
		N. N.I.C. NO./# N.T.S.	NORTH NOT IN CONTRACT NUMBER NOT TO SCALE

O.A. O.C. O.D. O.F.C.I. O.F.O.I. OPNG. OPP.	OVER ALL ON CENTER OUTSIDE DIAMETER/(DIM) OWNER FURNISHED- CONTRACTOR INSTALLED OWNER FURNISHED- OWNER INSTALLED OPENING OPPOSITE	R. RAD. REF. REFR. REINF. REQ. RESIL RGR R.H. RM. R.O.	RISER RADIUS REFERENCE REFRIGERATOR REINFORCED OR REINFORCING REQUIRED RESILIENT REGISTER ROBE HOOK ROOM ROUGH OPENING
PL. P. LAM. PLAS. PLBG. PLYWD. PNL. POS. PR. PRCST. PT. PTD PTN. P.T.R. PVC.	PLATE PLASTIC LAMINATE PLASTER PLUMBING PLYWOOD PANEL POSITION PAIR PRECAST POINT PAPER TOWEL DISPENSER PARTITION PAPER TOWEL RECEPTACLE POLYVINYL CHLORIDE	S. S.C. SC S.C.D. SCHED. SECT. SH. SHR. SHT. SIM. SK SL. SLDG. SPEC. S.ST S.SK STA. STD. STL. STOR. STRL. STRUCT. SUSP. SYM.	SOUTH SOLID CORE SCALE SEAT COVER DISPENSER SCHEDULE SECTION SHelf SHOWER SHEET SIMILAR SINK SLOPE SLIDING SPECIFICATION STAINLESS STEEL SERVICE SINK STATION STANDARD STEEL STORAGE STRUCTURAL STRUCTURE SUSPENDED SYMMETRICAL
		T. THK. THR. TLT. T.O. T.O.C. T.O.F. T.O.S T.O.P. T.O.W. T.P.D. T.P.H. TRD. TYP.	TOP OR TANGENT THICK THRESHOLD TOILET TOP OF TOP OF CURB TOP OF FLOOR TOP OF SLAB TOP OF PAVEMENT TOP OF WALL TOILET PAPER DISPENSER TOILET PAPER HOLDER TREAD TYPICAL
		U.L. UNF. U.O.N. UR.	UNDERWRITER LABORATORIES, INC. UNFINISHED UNLESS OTHERWISE NOTED URINAL
		V. VAC. VCT VERT. VEST. V.I.F. VLV.	VOLTS VACUUM VINYL COMPOSITION TILE VERTICAL VESTIBULE VERIFY IN FIELD VALVE
		W W/ W.C. WD. WDW. W.O. W/O WSCT.	WEST OR WATTS OR WIDE WITH WATER CLOSET WOOD WINDOW WHERE OCCURS WITHOUT WAINSCOT

SYMBOLS

	COLUMN LINE LETTERS IN ONE DIRECTION NUMBERS IN THE OTHER DIRECTION
	WORK POINT, CONTROL POINT OR DATUM POINT
	DOOR TYPE
	WINDOW TYPE
	LOUVER TYPE
	PARTITION TYPE
	NORTH ARROW
	BUILDING SECTION SECTION IDENTIFICATION SHEET WHERE DRAWN
	WALL OR DETAIL SECTION WALL OR DETAIL IDENTIFICATION SHEET WHERE DRAWN
	DETAIL DETAIL IDENTIFICATION SHEET WHERE DRAWN
	ELEVATIONS ELEVATION IDENTIFICATION SHEET WHERE DRAWN
	INTERIOR ELEVATIONS
	REVISION CLOUD AROUND REVISION
	ROOM IDENTIFICATION ROOM NAME ROOM NUMBER
	NEW FINISH GRADE
	EXISTING GRADE
	PROPERTY LINE
	NEW OR FINISH GRADE
	EXISTING GRADE
	T.W.= TOP OF WALL T.C.= TOP OF CURB T.P.= TOP OF PAVEMENT

MATERIALS

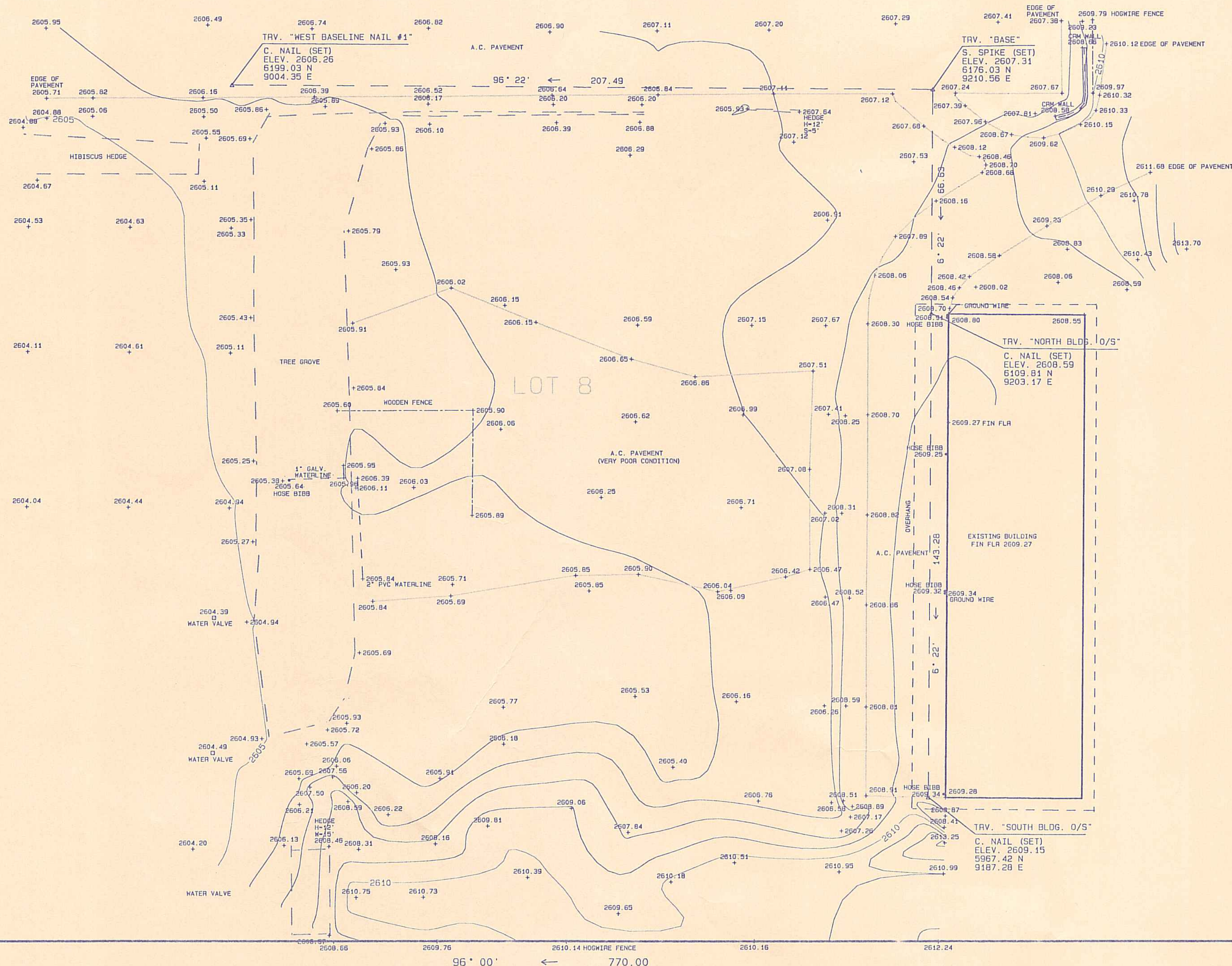
	SOIL
	BASE COURSE, CUSHION FILL
	CONCRETE
	CONCRETE MASONRY UNIT
	SAND, MORTAR, PLASTER
	METAL
	ASPHALTIC CONCRETE OR A.C. PAVING
	CERAMIC TILE, OR RESILIENT FLOORING
	METAL LATH
	GLASS MESH MORTAR UNIT
	GLASS
	ACOUSTICAL TILE OR PANEL
	GYPSUM BOARD
	BATT INSULATION

NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON JOB SITE PRIOR TO THE BEGINNING OF CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING CONSTRUCTION.
- DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL BE CLARIFIED WITH THE ENGINEER BEFORE CONSTRUCTION, INSTALLATION OR APPLICATION OF THE WORK.
- THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING CODES, BUILDING REGULATIONS OF FEDERAL, STATE, CITY & COUNTY, WHICHEVER GOVERNS THE CONSTRUCTION WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND FEES AND ARRANGE FOR INSPECTION BY AUTHORITIES, AND SHALL MAKE ARRANGEMENTS AND PAY FOR WORK TO BE DONE BY UTILITY COMPANIES PERTAINING TO THIS JOB.
- THE CONTRACTOR SHALL PROTECT ADJOINING LAND, BUILDING AND OTHER IMPROVEMENTS SITUATED THEREIN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY WATER AND POWER SERVICES AND SHALL PAY ALL EXPENSES IN CONNECTION THEREWITH.
- REMOVE FROM THE SITE, ALL REMOVAL ITEMS & DEBRIS UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER. REPAIR ALL AREAS TO REMAIN WHICH ARE DAMAGED DUE TO REMOVAL OR CONSTRUCTION WORK.
- KEEP THE PROJECT AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.
- PROVIDE TEMPORARY CONSTRUCTION BARRIER AROUND ENTIRE CONSTRUCTION SITE WITH DUST SCREEN ABOVE AS REQUIRED.
- UTILITY AND PIPE LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF THE EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THEM. ANY PORTION OF THE EXISTING UTILITIES THAT MUST BE REMOVED OR OTHERWISE DISTURBED TO ACCOMPLISH THE WORK CALLED FOR ON THE PLANS SHALL BE RECONSTRUCTED, REPLACED OR RESTORED TO THE ORIGINAL CONDITION AT THE CONTRACTOR'S OWN EXPENSE.
- ALL DIMENSIONS TAKEN FROM FACE OF STUD, CONC., CMU, OR FINISH UNLESS OTHERWISE NOTED.
- ALL GRIDLINES TO CENTER LINE OF COLUMN U.O.N.
- THE CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO ALL REQUIRED WATER-TIGHT CONSTRUCTION SUCH AS ROOFING, FLASHING, CAULKING, ETC.

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF WATER AND LAND DEVELOPMENT					
STATE TREE NURSERY OPERATIONS BUILDING LALAMILLO, SOUTH KOHALA, HAWAII					
ABBREV., SYMBOLS, MAT'L S., & NOTES					
FINAL SUBMITTAL					
DESIGNED: EA		SUBMITTED: <i>ea</i>			
DRAWN: KK		DATE: MAY 12, 1994			
CHECKED: WH		SCALE: NO SCALE			
APPROVED: <i>Ronald H. Kunimitsu</i>		DATE: <i>5/19/94</i>		DRAWING NO. T-2	
SIGNATURE		DATE		MANAGER-CHIEF ENGINEER	

TRUE NORTH
SCALE: 1 IN = 20 FT



TO MAINE
MAMALAOA HIGHWAY
810.00
6' 00"
75' R/W
TO KONA

- SURVEY NOTES:**
1. AZIMUTHS AND COORDINATES REFERRED TO "PUU PA" Δ. ORIGIN OF AZIMUTHS FROM CENTERLINE MONUMENTS WITHIN LALAMILO FARM LOTS. ORIGIN OF ELEVATIONS FROM STATE HIGHWAY DEPT. CONTROL R-7 ON MAMALAOA HIGHWAY AND REFERRED TO MEAN SEA LEVEL.
 2. SURVEY CONDUCTED ON APRIL 30, AND MAY 3, 1993.
 3. UNDERGROUND UTILITIES SHOWN ARE FOR INFORMATION ONLY. NO GUARANTEE IS MADE ON THE ACCURACY OR COMPLETENESS OF SAID INFORMATION.

NOTES:

1. TOPOGRAPHIC MAP WAS PREPARED BY:
IMATA & ASSOCIATES, INC.
171 KAPIOLANI BLVD.
HILO, HAWAII 96720
(808) 935-6827

20 TOPOGRAPHY MAP
1"=20'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
		STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF WATER AND LAND DEVELOPMENT			
		STATE TREE NURSERY OPERATIONS BUILDING LALAMILO, SOUTH KOHALA, HAWAII			
		TOPOGRAPHY MAP			
		FINAL SUBMITTAL			
		DESIGNED: IMATA & ASSOC.		SUBMITTED: <i>m</i>	
		DRAWN: IMATA & ASSOC.		DATE: MAY 12, 1994	
		CHECKED: IMATA & ASSOC.		SCALE: 1"=20'-0"	
		APPROVED: <i>[Signature]</i> MANAGER-CHIEF ENGINEER		DATE: 5-11-94	DRAWING NO. LS-1

CONSTRUCTION NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE COUNTY OF HAWAII DEPARTMENT OF PUBLIC WORKS "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION," DATED SEPTEMBER 1984 AND "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," DATED SEPTEMBER 1986, AS REVISED.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLAN OR NOT, AND SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF SAME IN THE EVENT OF DAMAGES DUE TO HIS CONSTRUCTION PRACTICES. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE RESPECTIVE UTILITY COMPANIES.
3. SELECT BORROW UNDER AC PAVEMENTS SHALL CONFORM TO SECTION 30 "SELECT BORROW FOR SUBBASE COURSE" OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1986.

WATER NOTES

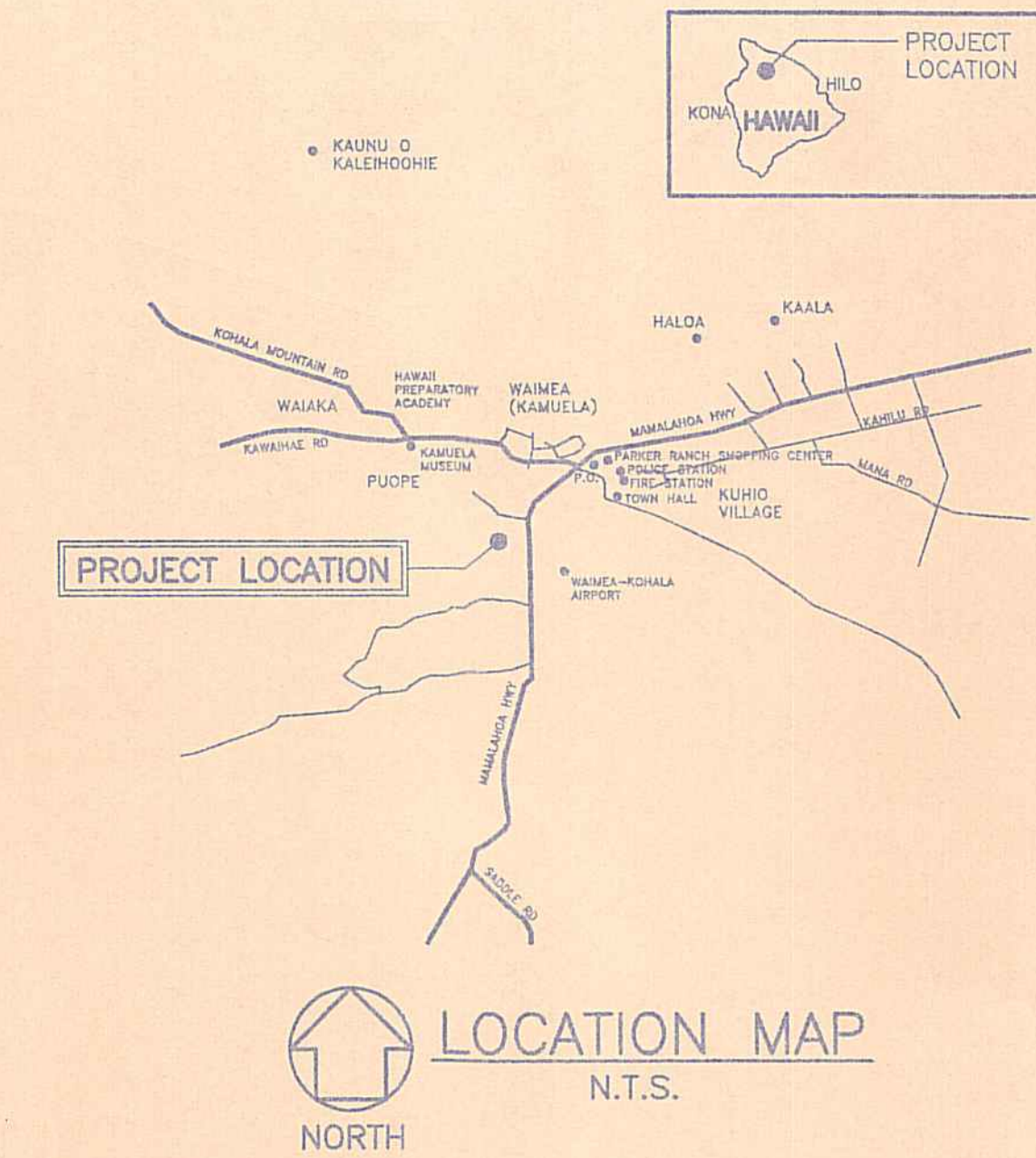
1. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS AND CONSTRUCTION OF WATER SYSTEM FACILITIES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE DEPARTMENT OF WATER SUPPLY, COUNTY OF HAWAII, "WATER SYSTEM STANDARDS," VOLUME 1, DATED 1985, AND THE "APPROVED MATERIAL LIST AND STANDARD DETAILS FOR WATER SYSTEM CONSTRUCTION," VOLUME 2, DATED 1985, AND ALL SUBSEQUENT AMENDMENTS AND ADDITIONS.
2. THE CONTRACTOR SHALL INFORM THE COUNTY OF HAWAII, DEPARTMENT OF WATER SUPPLY ENGINEER, SEVENTY-TWO (72) HOURS PRIOR TO BEGINNING WORK ON THE WATERLINE.
3. ALL WATERLINES 4 INCHES OR LARGER SHALL BE DUCTILE IRON PIPE WITH PUSH-ON JOINTS UNLESS OTHERWISE NOTED, LESS THAN 4 INCHES SHALL BE SOFT COPPER TYPE "K."
4. ALL FITTINGS (CLASS 250) AND GATE VALVES (CLASS 200) SHALL BE CAST IRON WITH MECHANICAL JOINTS UNLESS OTHERWISE NOTED.
5. ALL WORK AND MATERIALS FURNISHED BY THE DEPARTMENT OF WATER SUPPLY SHALL BE PAID FOR BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
6. ALL CONNECTION TO EXISTING MAIN SHALL BE DONE BY THE DEPARTMENT OF WATER SUPPLY AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL DO ALL EXCAVATION, BACKFILL, FURNISH ALL MATERIALS, CONSTRUCT REACTION BLOCKS AND VALVE BOXES, PAVEMENT REPAIR, PROVIDE FLAG MEN WHEN NECESSARY, AND ALL NECESSARY EQUIPMENT TO MAKE HOOKUP.
7. ALL WATERLINES, WATERLINE APPURTENANCE, AND OTHER UTILITY LOCATIONS SHOWN ON THE PLAN ARE OBTAINED FROM THE LATEST RELIABLE SOURCE. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXACT LOCATION IN THE FIELD AND SHALL BEAR ALL COST FOR DAMAGES DONE TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOT ASSUME THAT WHERE NO UTILITIES ARE SHOWN, THAT NONE EXIST.
8. WHERE WATER SHUT-OFF OF MORE THAN THREE (3) HOURS BECOMES NECESSARY, THE CONTRACTOR AT HIS OWN EXPENSE, SHALL INSTALL A BY-PASS LINE, SIZE TO BE DETERMINED BY THE DEPARTMENT OF WATER SUPPLY ENGINEER. THE DEPARTMENT OF WATER SUPPLY ENGINEER RESERVES THE RIGHT TO REQUIRE BY-PASS LINES REGARDLESS OF THE ANTICIPATED SHUT-OFF PERIOD.
9. THE WATERLINE SHALL BE TESTED AT A MINIMUM PRESSURE OF 225 PSI AT THE LOW POINT UNDER DEPARTMENT OF WATER SUPPLY SUPERVISION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CHLORINATION OF THE WATER SYSTEM BY A CHLORINATION COMPANY LICENSED TO DO SO IN THE STATE OF HAWAII.
11. ALL EXISTING WATERLINE APPURTENANCES LABELED "SALVAGE" SHALL BE CLEARED OF ALL DIRT, SCABS, AND CONCRETE AND DELIVERED TO THE DEPARTMENT OF WATER SUPPLY BASEYARD IN HILO.
12. NO WATER SERVICES WILL BE GRANTED OR FULL OWNERSHIP ASSUMED BY THE DEPARTMENT UNTIL SUCH A TIME THAT THE WATER SYSTEM IS DEDICATED.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY UNAUTHORIZED CONNECTION OR UNAUTHORIZED WATER USAGE AND SHALL BE FINED UP TO \$500.00 FOR NON-COMPLIANCE.
14. MINIMUM HORIZONTAL CLEARANCE BETWEEN WATERLINES AND OTHER UTILITIES SHALL BE 8 FEET UNLESS OTHERWISE SPECIFIED. MINIMUM VERTICAL CLEARANCE BETWEEN WATERLINES AND OTHER UTILITIES SHALL BE 12 INCHES PROVIDED CONCRETE JACKETS ARE USED, AND 18 INCHES IF NO CONCRETE JACKETS ARE USED. IN ALL INSTANCES, THE WATERLINES SHALL BE AT A GRADE HIGHER THAN OTHER UTILITIES.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF CHLORINATED WATER TO SAFEGUARD PUBLIC HEALTH AND ENVIRONMENT IN ACCORDANCE WITH APPLICABLE DEPARTMENT OF HEALTH REQUIREMENTS.

GRADING NOTES

1. ALL GRADING WORK SHALL CONFORM TO CHAPTER 10 OF THE HAWAII COUNTY CODE AND SHALL NOT COMMENCE UNTIL A GRADING PERMIT IS APPROVED.
2. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS. THE COSTS INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE CHIEF ENGINEER SHALL BE PAYABLE BY THE CONTRACTOR.
3. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS IN CHAPTER 11-60, "AIR POLLUTION CONTROL."
4. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER POLLUTION CONTROL AND WATER QUALITY STANDARDS CONTAINED IN THE PUBLIC HEALTH REGULATIONS, STATE DEPARTMENT OF HEALTH, ON WATER POLLUTION CONTROL AND WATER QUALITY STANDARDS, AND TO THE EROSION AND SEDIMENTATION CONTROL STANDARDS AND GUIDELINES OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF HAWAII.
5. ALL SLOPES AND EXPOSED AREAS SHALL BE SODDED OR PLANTED IMMEDIATELY AFTER THE GRADING WORK HAS BEEN COMPLETED.
6. FILLS ON SLOPES STEEPER THAN 5:1 SHALL BE KEYED.
7. THE COUNTY SHALL BE INFORMED OF THE LOCATION OF THE BORROW SITE FOR THE BORROW REQUIRED FOR THIS PROJECT WHEN THE APPLICATION FOR A GRADING PERMIT IS MADE. THE DISPOSAL SITE MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
8. THE COUNTY SHALL BE INFORMED OF THE LOCATION OF THE BORROW SITE FOR THE BORROW REQUIRED FOR THIS PROJECT WHEN THE APPLICATION FOR A GRADING PERMIT IS MADE. THE BORROW SITE MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
9. NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS AND HOLIDAYS AT ANY TIME WITHOUT PRIOR NOTICE TO THE CHIEF ENGINEER.
10. ALL VEGETATION SHALL BE REMOVED PRIOR TO PLACING FILL ON NATURAL GROUND SURFACE.

SEWER NOTES

1. ALL SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE COUNTIES "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" DATED SEPTEMBER 1986 AND THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" DATED SEPTEMBER 1984 AS REVISED.
2. MINIMUM SLOPE OF ALL LATERALS SHALL BE 1.00%.
3. TREES SHALL BE SITUATED A MINIMUM OF 6'-0" FROM THE SEWER PIPES.
4. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS SEWER SERVICE TO ALL AFFECTED AREAS DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SEWAGE SPILLS CAUSED DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE STATE DEPARTMENT OF HEALTH AND UTILIZE APPROPRIATE SAMPLING AND ANALYZING PROCEDURES.



APPROVED:

MANAGER
DEPARTMENT OF WATER SUPPLY _____ DATE _____

CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS _____ DATE _____

REVISION NO.	SYMBOL	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF WATER AND LAND DEVELOPMENT STATE TREE NURSERY OPERATIONS BUILDING LALAMILO, SOUTH KOHALA, HAWAII					
CIVIL NOTES & LOCATION MAP					
FINAL SUBMITTAL					
DESIGNED: CTK,SY			SUBMITTED: TW		
DRAWN: SY			DATE: MAY 12, 1994		
CHECKED: DM			SCALE: AS NOTED		
APPROVED: <i>[Signature]</i>			DATE: 5-17-94	DRAWING NO. C-1	
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION					
MANAGER-CHIEF ENGINEER					

/users/hp3/94017/notes

LOG OF TEST PIT NO. 1		ELEVATION: +1-2607.5'	
EQUIPMENT USED: CASE 580K HOPTO		DEPTH OF TEST PIT: 7	
DATE EXCAVATED: MARCH 16, 1994		DEPTH TO GROUNDWATER: N/A	
DEPTH (FT.)	UNIFIED SOIL CLASSIFICATION	DESCRIPTION	ATTERBERG LIMITS
0	GM	silty GRAVEL (CLINKERS)	
2			
4			
6			
7		END OF TEST PIT	
8			
10			
12			
14			

LOG OF TEST PIT NO. 2		ELEVATION: +1-2606.5'	
EQUIPMENT USED: CASE 580K HOPTO		DEPTH OF TEST PIT: 5	
DATE EXCAVATED: MARCH 16, 1994		DEPTH TO GROUNDWATER: N/A	
DEPTH (FT.)	UNIFIED SOIL CLASSIFICATION	DESCRIPTION	ATTERBERG LIMITS
0	GM	silty GRAVEL (CLINKERS)	
2			
4			
5	(RX)	BASALT, weathered, fractured END OF TEST PIT	
6			
8			
10			
12			
14			

LOG OF TEST PIT NO. 3		ELEVATION: +1-2606'	
EQUIPMENT USED: CASE 580K HOPTO		DEPTH OF TEST PIT: 10	
DATE EXCAVATED: MARCH 16, 1994		DEPTH TO GROUNDWATER: N/A	
DEPTH (FT.)	UNIFIED SOIL CLASSIFICATION	DESCRIPTION	ATTERBERG LIMITS
0	MH	clayey SILT, with gravel and sand, few roots	
2	GM	silty GRAVEL (CLINKERS)	
4			
6			
8			
10		END OF TEST PIT	
12			
14			

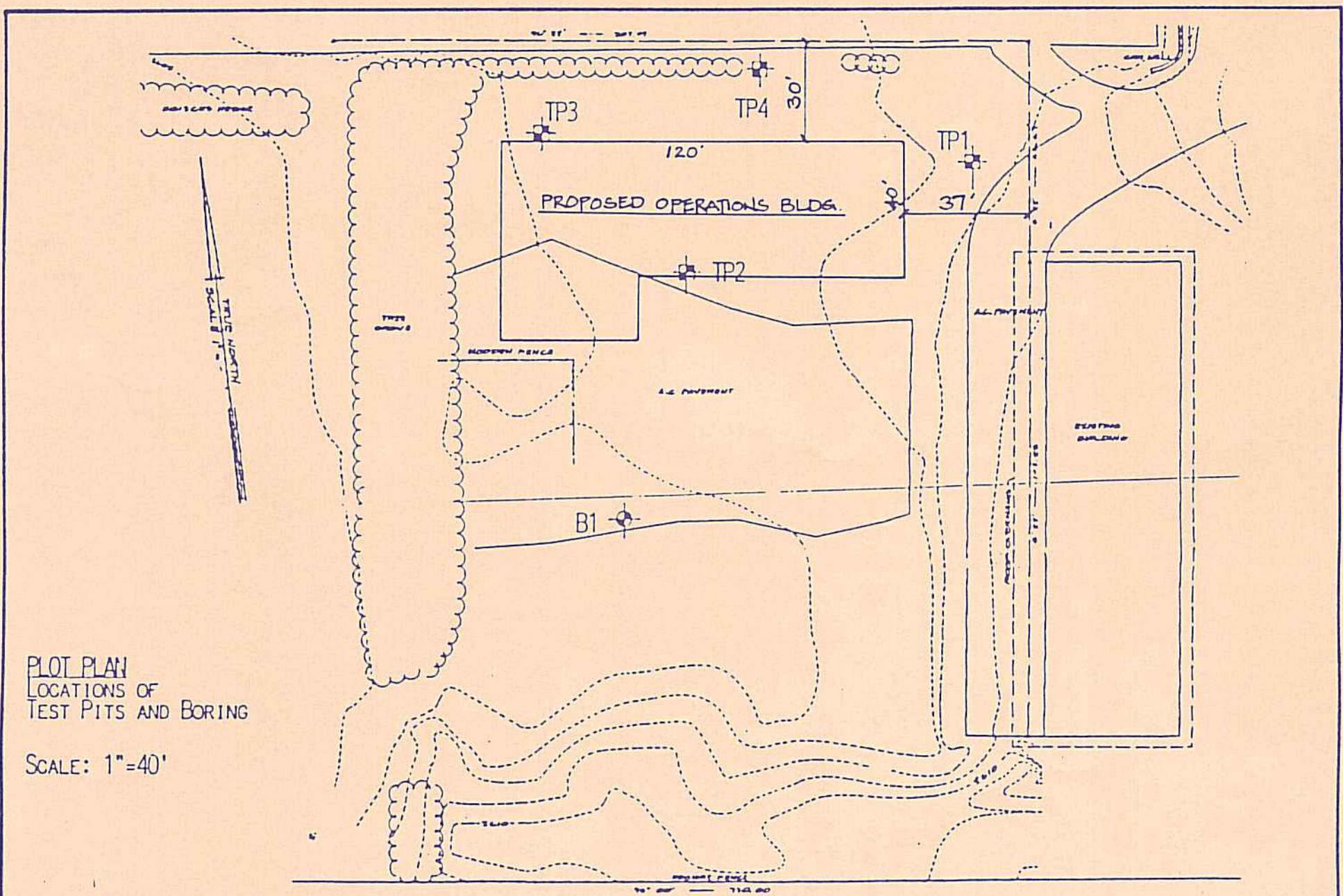
LOG OF TEST PIT NO. 4		ELEVATION: +1-2606'	
EQUIPMENT USED: CASE 580K HOPTO		DEPTH OF TEST PIT: 4	
DATE EXCAVATED: MARCH 16, 1994		DEPTH TO GROUNDWATER: N/A	
DEPTH (FT.)	UNIFIED SOIL CLASSIFICATION	DESCRIPTION	ATTERBERG LIMITS
0	MH	clayey SILT, with gravel and sand, few roots	
2			
4	GM	silty GRAVEL (CLINKERS)	
6			
8			
10			
12			
14			

LOG OF BORING NO. 1		ELEVATION: +1-2606'	
EQUIPMENT USED: HAND SAMPLER, 12# HAMMER		DEPTH OF BORING: 2.5	
DATE DRILLED: MARCH 15, 1994		DEPTH TO GROUNDWATER: N/A	
DEPTH (FT.)	UNIFIED SOIL CLASSIFICATION	DESCRIPTION	ATTERBERG LIMITS
0	GM	silty GRAVEL	
0.25			
0.5			
0.75			
1	MH	clayey SILT, few gravel	
1.25			
1.5			
1.75			
2			
2.25			
2.5		END OF BORING	
2.75			
3			
3.25			
3.5			

LOG OF BORING NO. 2		ELEVATION: +1-2606'	
EQUIPMENT USED: HAND SAMPLER, 12# HAMMER		DEPTH OF BORING: 2.5	
DATE DRILLED: MARCH 15, 1994		DEPTH TO GROUNDWATER: N/A	
DEPTH (FT.)	UNIFIED SOIL CLASSIFICATION	DESCRIPTION	ATTERBERG LIMITS
0	GM	silty GRAVEL	
0.25			
0.5			
0.75			
1	MH	clayey SILT, few gravel	
1.25			
1.5			
1.75			
2			
2.25			
2.5		END OF BORING	
2.75			
3			
3.25			
3.5			

LOG OF BORING NO. 3		ELEVATION: +1-2606'	
EQUIPMENT USED: HAND SAMPLER, 12# HAMMER		DEPTH OF BORING: 2.5	
DATE DRILLED: MARCH 15, 1994		DEPTH TO GROUNDWATER: N/A	
DEPTH (FT.)	UNIFIED SOIL CLASSIFICATION	DESCRIPTION	ATTERBERG LIMITS
0	GM	silty GRAVEL	
0.25			
0.5			
0.75			
1	MH	clayey SILT, few gravel	
1.25			
1.5			
1.75			
2			
2.25			
2.5		END OF BORING	
2.75			
3			
3.25			
3.5			

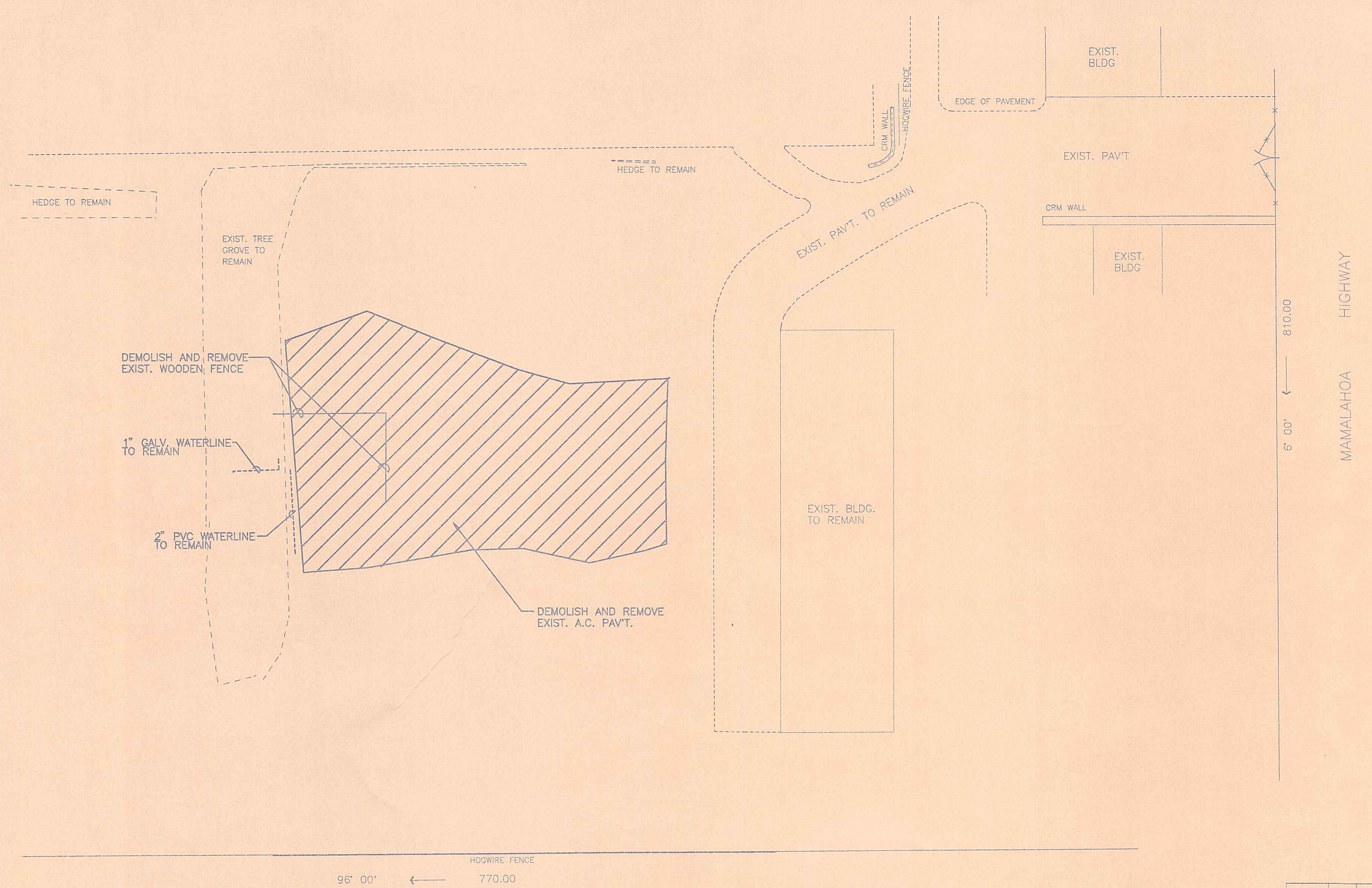
LOG OF BORING NO. 4		ELEVATION: +1-2606'	
EQUIPMENT USED: HAND SAMPLER, 12# HAMMER		DEPTH OF BORING: 2.5	
DATE DRILLED: MARCH 15, 1994		DEPTH TO GROUNDWATER: N/A	
DEPTH (FT.)	UNIFIED SOIL CLASSIFICATION	DESCRIPTION	ATTERBERG LIMITS
0	GM	silty GRAVEL	
0.25			
0.5			
0.75			
1	MH	clayey SILT, few gravel	
1.25			
1.5			
1.75			
2			
2.25			
2.5		END OF BORING	
2.75			
3			
3.25			
3.5			



PROJECT:	PROJECT NO.:	SOILS INTERNATIONAL	PLATE
KAMUELA FORESTRY NURSERY BUILDING	H-2314-F	99-1255 WAIUA PLACE AIEA, HAWAII 96701	2

- NOTES:
- THE BORING LOGS AND TEST PITS INDICATE THE APPROXIMATE SUBSURFACE SOIL CONDITIONS ENCOUNTERED ONLY AT THE DRILL HOLES THE BORINGS AND PITS WERE MADE, AT THE TIMES DESIGNATED ON THE LOGS, AND MAY NOT REPRESENT CONDITIONS AT OTHER LOCATIONS OR ON OTHER DATES. SOIL CONDITIONS AND WATER LEVELS MAY CHANGE WITH THE PASSAGE OF TIME AND CONSTRUCTION METHODS OR IMPROVEMENTS AT THE SITE.
 - TEST BORINGS AND PITS WERE TAKEN FROM SUBSURFACE INVESTIGATION REPORT "REPORT, SOILS INVESTIGATION, PROPOSED STATE TREE NURSERY OPERATIONS BUILDING, DEPARTMENT OF FORESTRY AND WILDLIFE, WAIMEA, SOUTH KOHALA, HAWAII, TMK: 6-6-05: PORTION 01", PREPARED BY SOILS INTERNATIONAL AND DATED MARCH 31, 1994.


REVISION NO.	SYMBOL	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF WATER AND LAND DEVELOPMENT STATE TREE NURSERY OPERATIONS BUILDING LALAMILO, SOUTH KOHALA, HAWAII BORING LOGS FINAL SUBMITTAL					
DESIGNED:	CTK,SY	SUBMITTED:			
DRAWN:	SY	DATE:	MAY 19, 1994		
CHECKED:	DM	SCALE:	AS NOTED		
APPROVED:	 DANIEL S. MIYAZAKI REGISTERED PROFESSIONAL ENGINEER No. 3443-C HAWAII U.S.A.		DRAWING NO.		C-2
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION		APPROVED: DANIEL S. MIYAZAKI MANAGER/CHIEF ENGINEER		DATE	



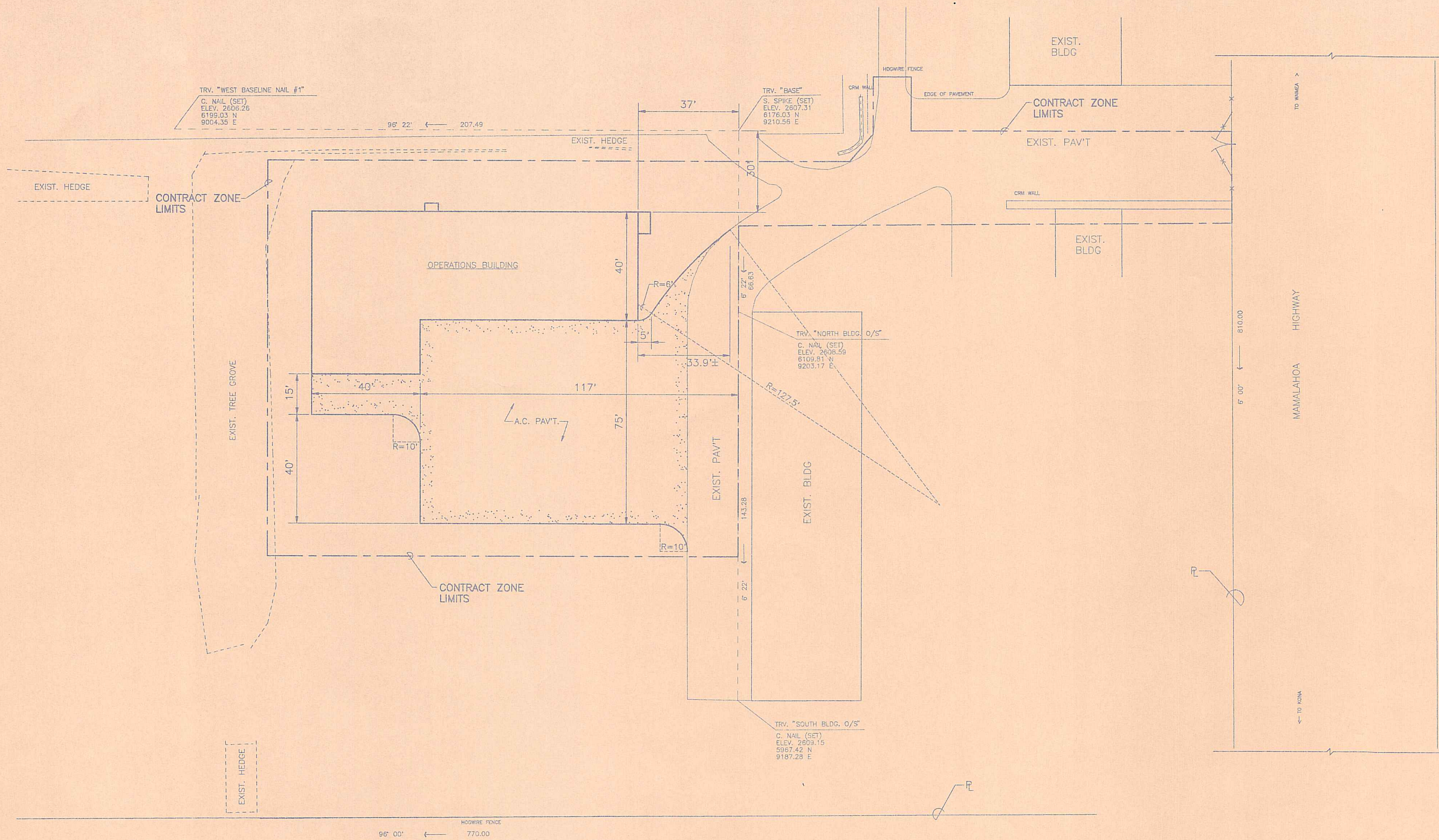
96' 00" ← HOGWIRE FENCE 770.00

810.00
← 6' 00"
MAMALAHOA HIGHWAY

 **DEMOLITION PLAN**
SCALE: 1" = 20'

REVISION NO.	SYMBOL	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF WATER AND LAND DEVELOPMENT STATE TREE NURSERY OPERATIONS BUILDING LALAMILO, SOUTH KOHALA, HAWAII DEMOLITION PLAN FINAL SUBMITTAL					
DESIGNED:	CTK,SY	SUBMITTED:	~		
DRAWN:	SY	DATE:	MAY 12, 1994		
CHECKED:	DM	SCALE:	1" = 20'		
APPROVED:		DATE:	5/11/94		
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION		MANAGER-CHIEF ENGINEER	DRAWING NO. C-3		

/users/hp3/94017/demo



SITE PLAN
SCALE: 1" = 20'
TMK 6-6-05:1

APPROVED:

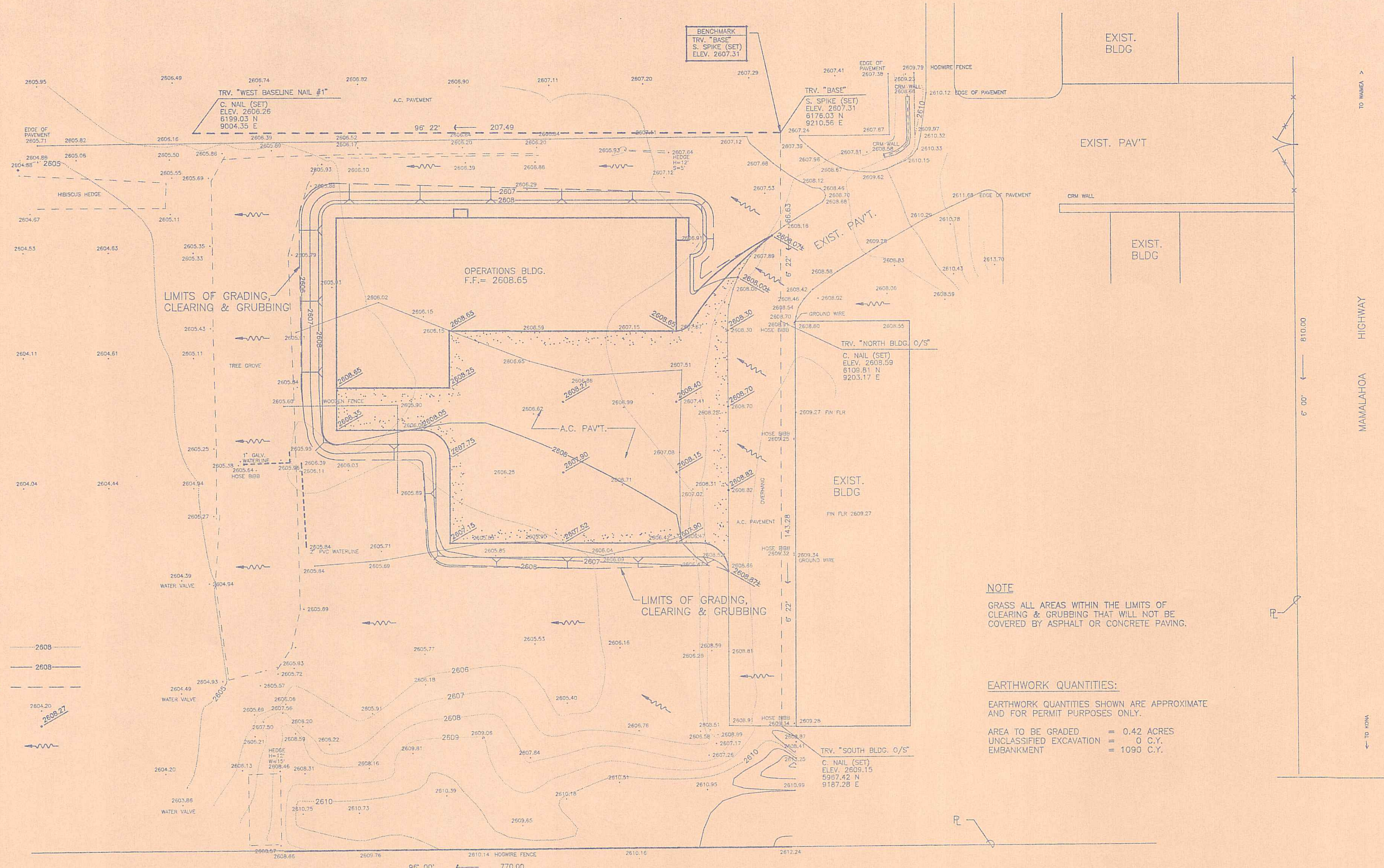
CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS

DATE

REVISION NO.	SYMBOL	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF WATER AND LAND DEVELOPMENT					
STATE TREE NURSERY OPERATIONS BUILDING LALAMILLO, SOUTH KOHALA, HAWAII					
SITE PLAN					
FINAL SUBMITTAL					
DESIGNED: CTK/SY	SUBMITTED: <i>me</i>				
DRAWN: SY	DATE: MAY 12, 1994				
CHECKED: DM	SCALE: 1" = 20'				
APPROVED: <i>[Signature]</i>	DATE: 5-11-94		DRAWING NO. C-4		
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION		MANAGER-CHIEF ENGINEER			

JOB NO. 63-HF-E1

SHEET NO. 7 OF 36 SHEETS

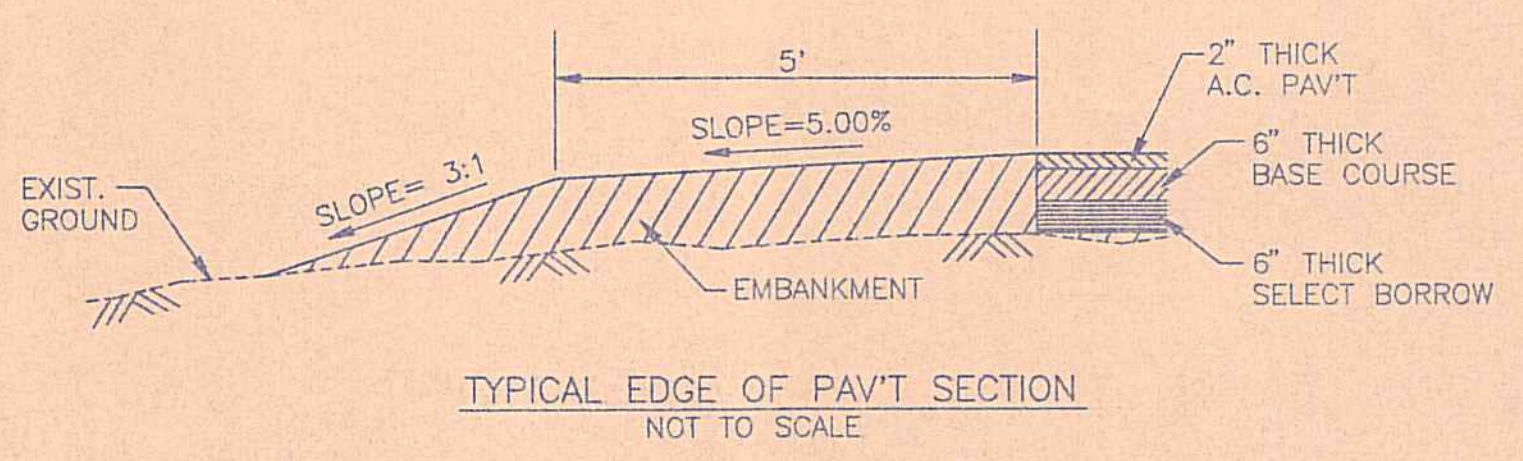


LEGEND

- EXIST. CONTOUR ——— 2608 ———
- NEW CONTOUR ——— 2608 ———
- LIMITS OF GRADING - - - - -
- EXIST. SPOT ELEV. 2604.20
- NEW SPOT ELEV. 2608.27
- EXIST. FLOW LINE ———

NOTE
 GRASS ALL AREAS WITHIN THE LIMITS OF CLEARING & GRUBBING THAT WILL NOT BE COVERED BY ASPHALT OR CONCRETE PAVING.

EARTHWORK QUANTITIES:
 EARTHWORK QUANTITIES SHOWN ARE APPROXIMATE AND FOR PERMIT PURPOSES ONLY.
 AREA TO BE GRADED = 0.42 ACRES
 UNCLASSIFIED EXCAVATION = 0 C.Y.
 EMBANKMENT = 1090 C.Y.



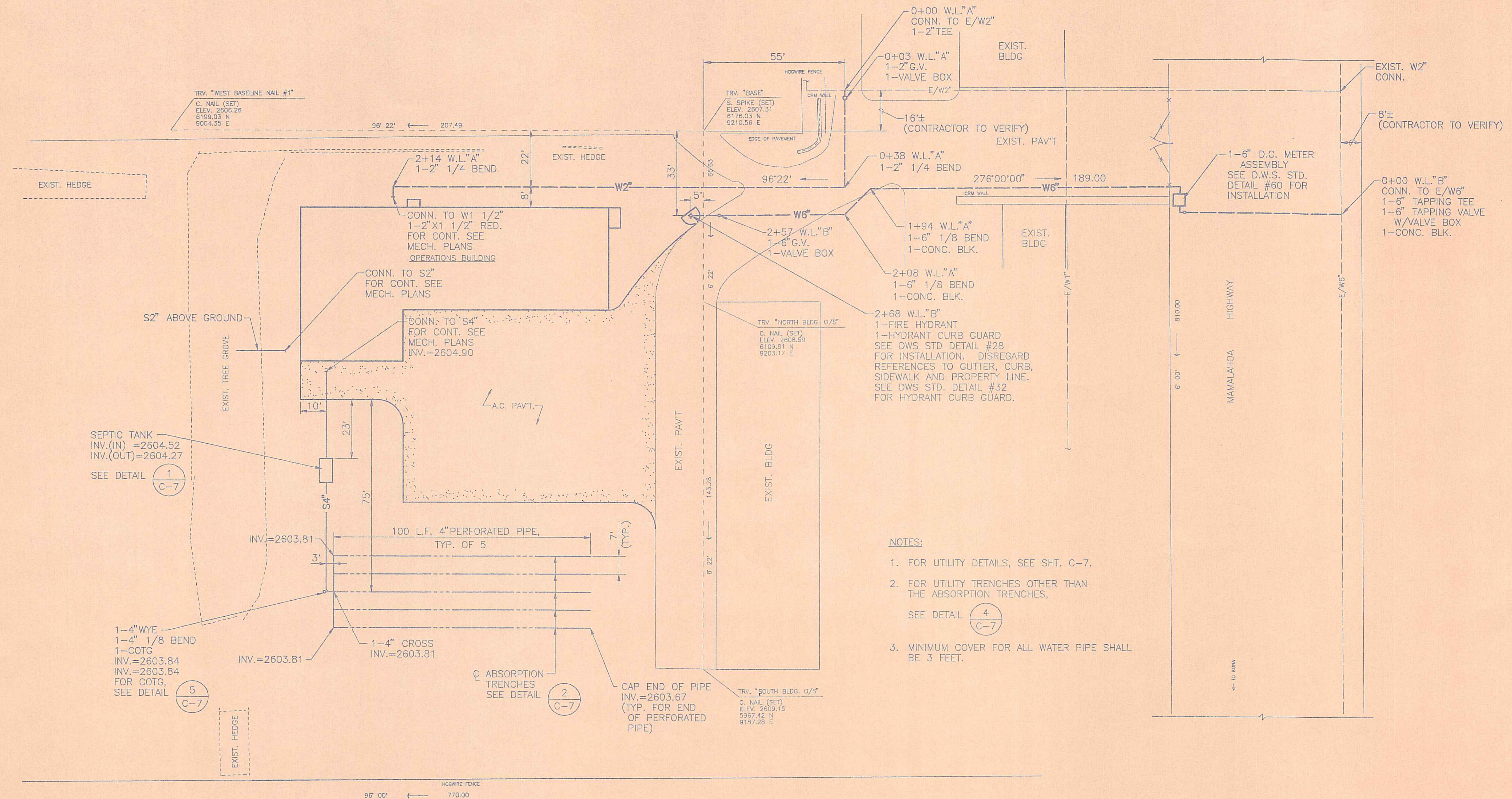
GRADING PLAN
 SCALE: 1" = 20'
 NORTH

APPROVED:

 CHIEF ENGINEER
 DEPARTMENT OF PUBLIC WORKS
 DATE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF WATER AND LAND DEVELOPMENT STATE TREE NURSERY OPERATIONS BUILDING LALAMILO, SOUTH KOHALA, HAWAII GRADING PLAN FINAL SUBMITTAL					
DESIGNED:	CTK,SY	SUBMITTED:	[Signature]		
DRAWN:	SY	DATE:	MAY 12, 1994		
CHECKED:	DM	SCALE:	1" = 20'		
APPROVED:	[Signature]	DATE:	5.11.94		
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION		MANAGER-CHIEF ENGINEER	DRAWING NO. C-5		

/users/hp3/94017/grading



REVISION NO.	SYMBOL	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER AND LAND DEVELOPMENT

STATE TREE NURSERY OPERATIONS BUILDING
LALAMILO, SOUTH KOHALA, HAWAII

UTILITY PLAN

FINAL SUBMITTAL

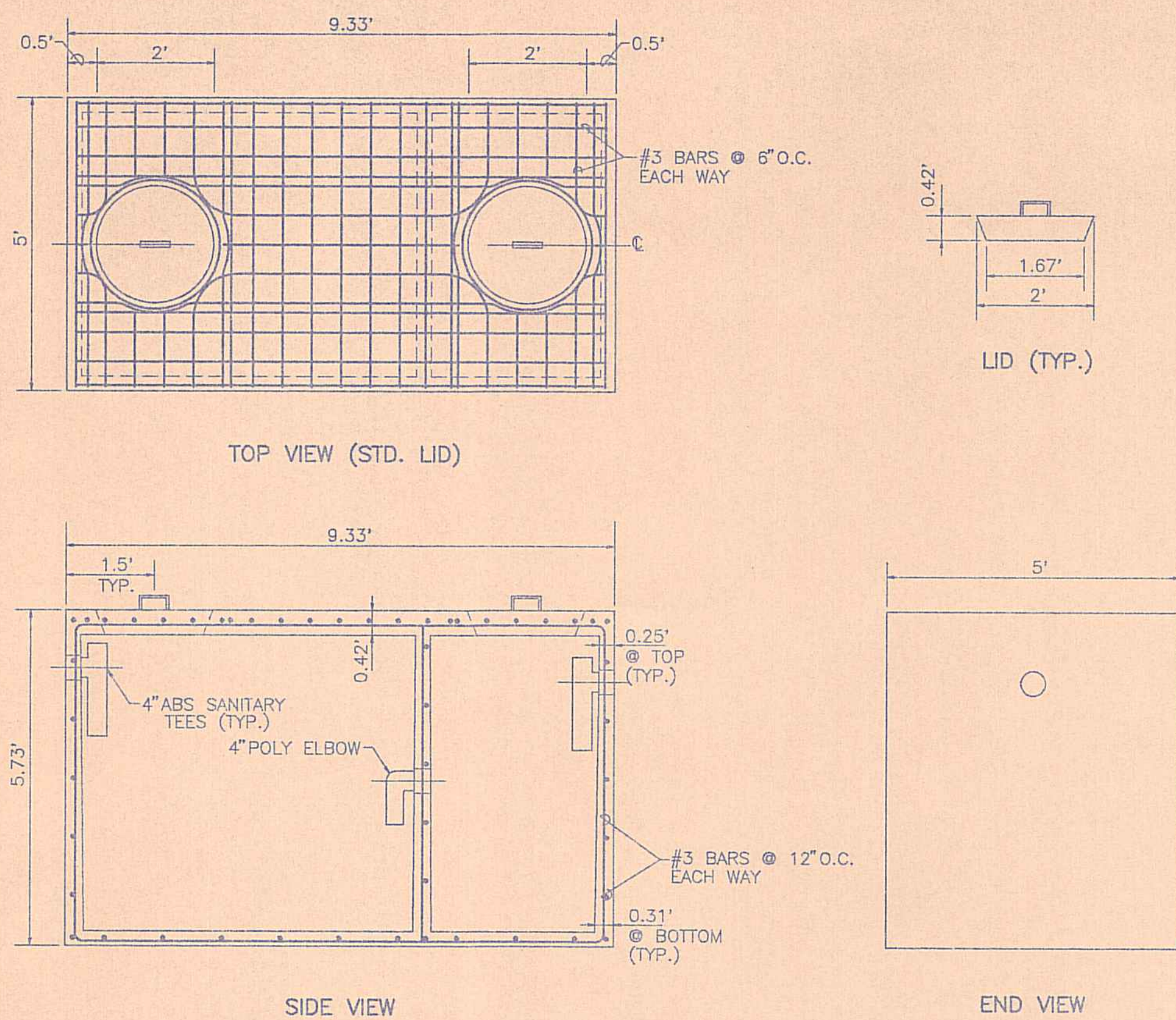
DESIGNED: CTK/SY
SUBMITTED: *me*

DRAWN: SY
DATE: MAY 12, 1994

CHECKED: DM
SCALE: 1" = 20'

APPROVED: *David S. Miyamoto*
MANAGER-CHIEF ENGINEER
DATE: 5.11.94
DRAWING NO. C-6

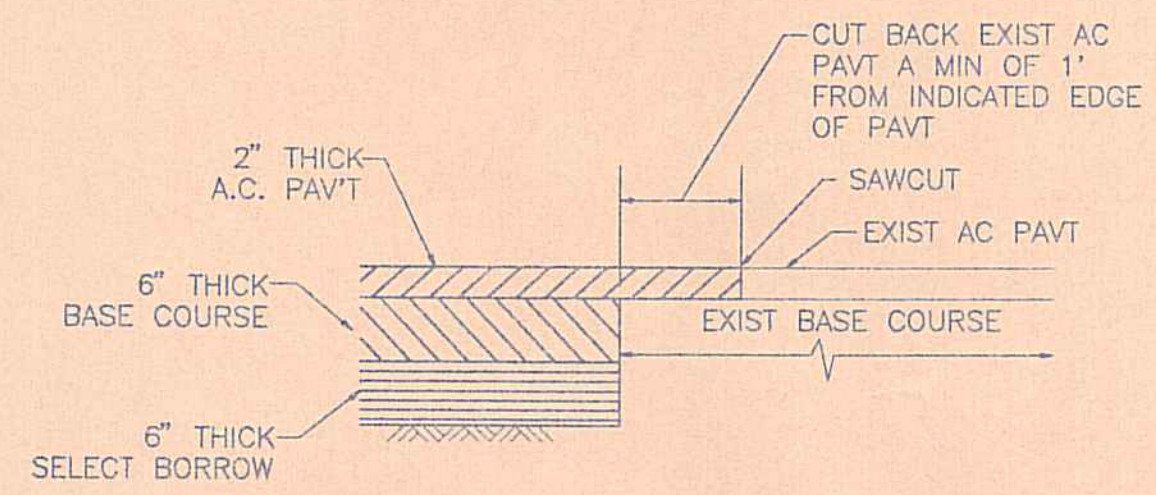
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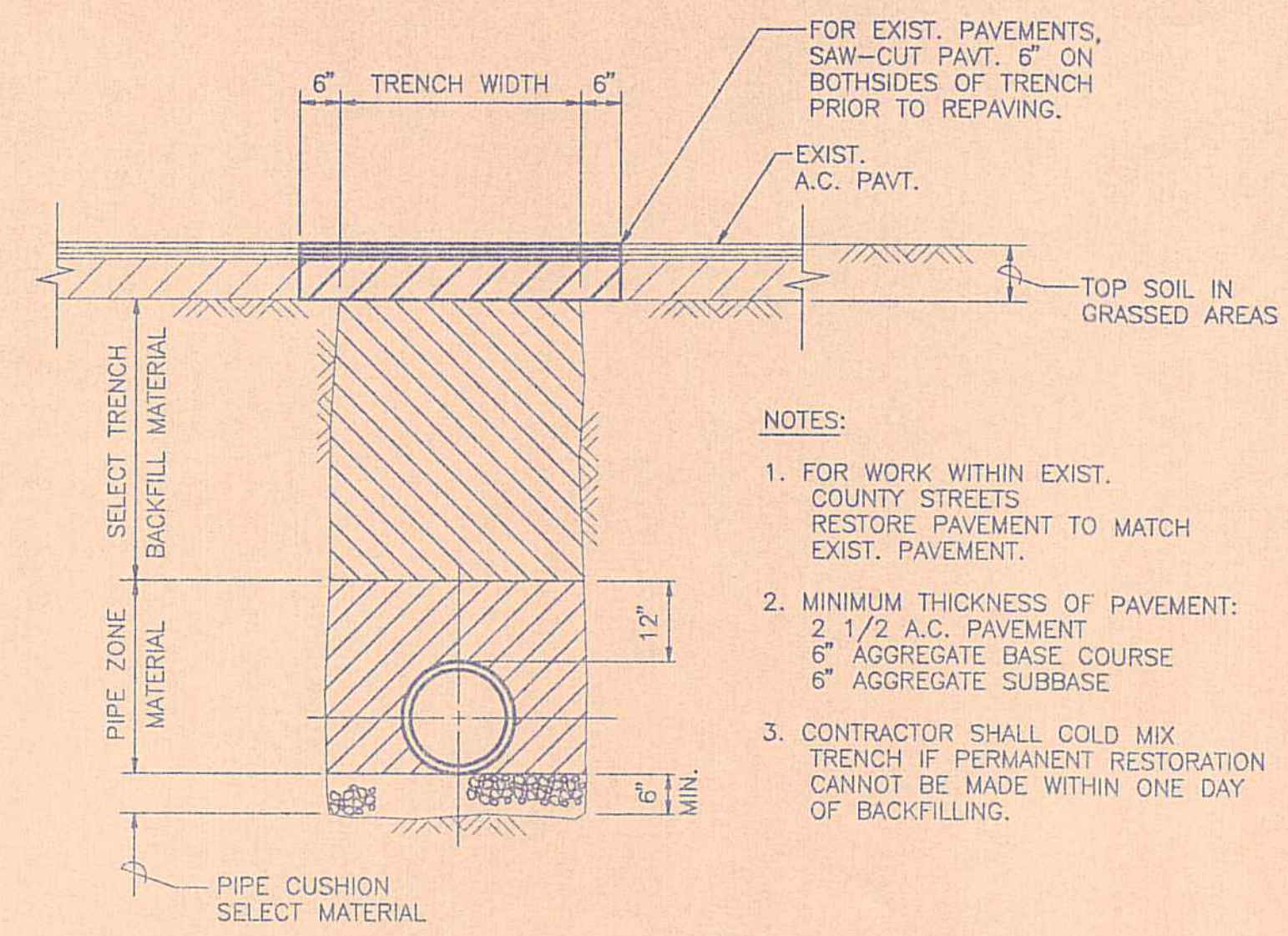
DETAIL-SEPTIC TANK
SCALE: 1/2" = 1'

- NOTES:
1. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
 2. CEMENT SHALL BE PORTLAND CONFORMING TO ASTM C 150.
 3. REINFORCING STEEL SHALL BE INTERMEDIATE GRADE, DEFORMED, CONFORMING TO ASTM A-616 GRADE 40.
 4. REINFORCING BARS SHALL BE IN LONG LENGTHS AND SHALL BE LAPPED A MINIMUM OF 15 INCHES, OR 40 BAR DIAMETERS.
 5. ALL TANKS SHALL BE COATED ON THE INTERIOR AND SHALL COVER ALL OF THE INTERNAL AREA WITH AN APPROVED BITUMINOUS COATING AND SHALL BE APPLIED PER THE MANUFACTURER'S RECOMMENDATION.
 6. TANKS SHALL BEAR ON UNDISTURBED SOIL A MINIMUM OF 12 INCHES BELOW ORIGINAL GRADE ON A SOLID BED AND SHALL BE INSTALLED LEVEL.
 7. IF TANK HOLE IS OVEREXCAVATED OR HAS ROCKY UNLEVEL BOTTOM, PROVIDE 2 INCHES OF SAND-PEA GRAVEL TO LEVEL BOTTOM.
 8. FILL TANK WITH WATER AFTER IT HAS BEEN SET IN PLACE AND THE SIDES BACKFILLED.
 9. ALL PIPES LEAVING/ENTERING TANKS SHALL BE SEALED WITH A NON SHRINK GROUT MIX.
 10. SEPTIC TANK SHALL BE LISTED BY THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS (IAPMO).
 11. A 6-INCH INSPECTION PIPE SHALL BE SUPPLIED ON INLET AND OUTLET SIDE OF TANK FOR CLEAN OUT.
 12. THREE 4-INCH ELBOWS SHALL BE PROVIDED IN BAFFLE WALL AT SAME ELEVATION.

© QUALITY CONCRETE PRODUCTS

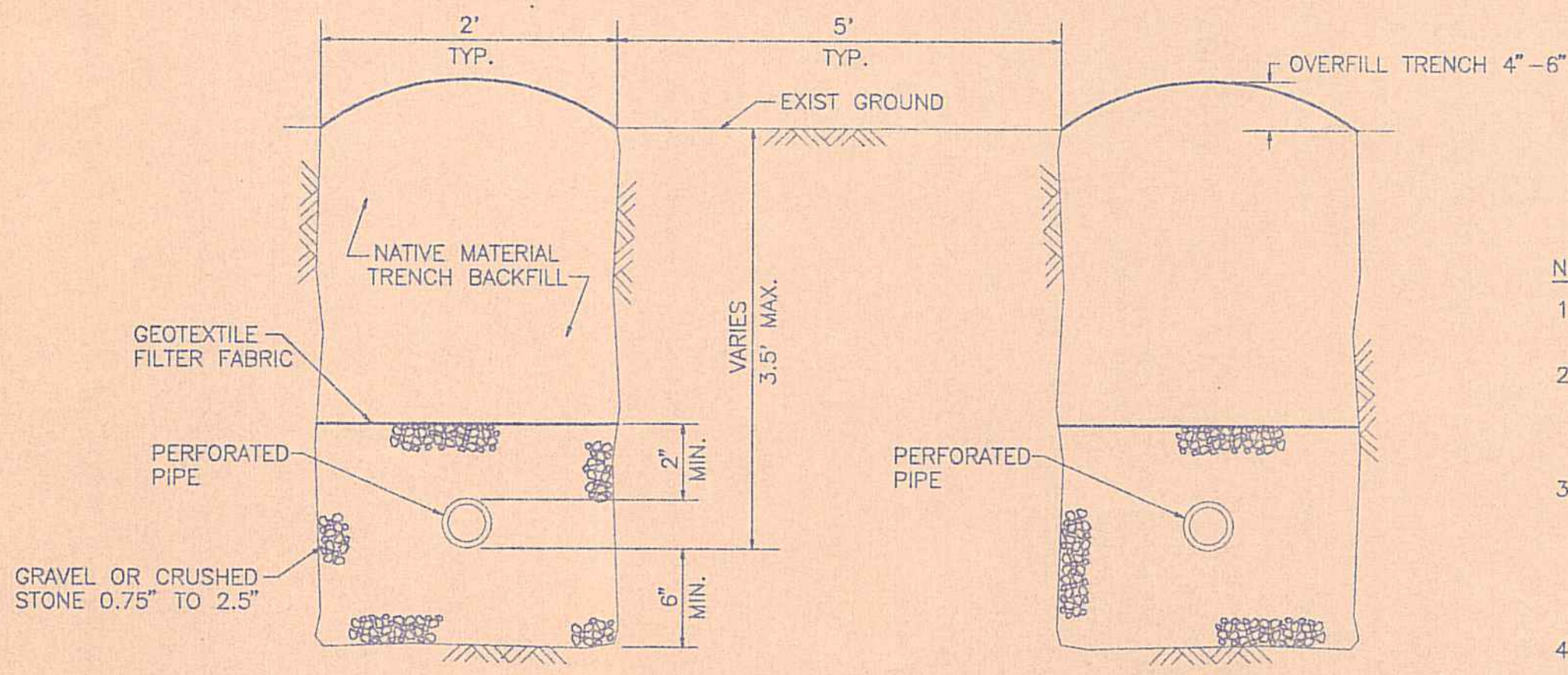


DETAIL-SMOOTH RIDING CONNECTION
NOT TO SCALE



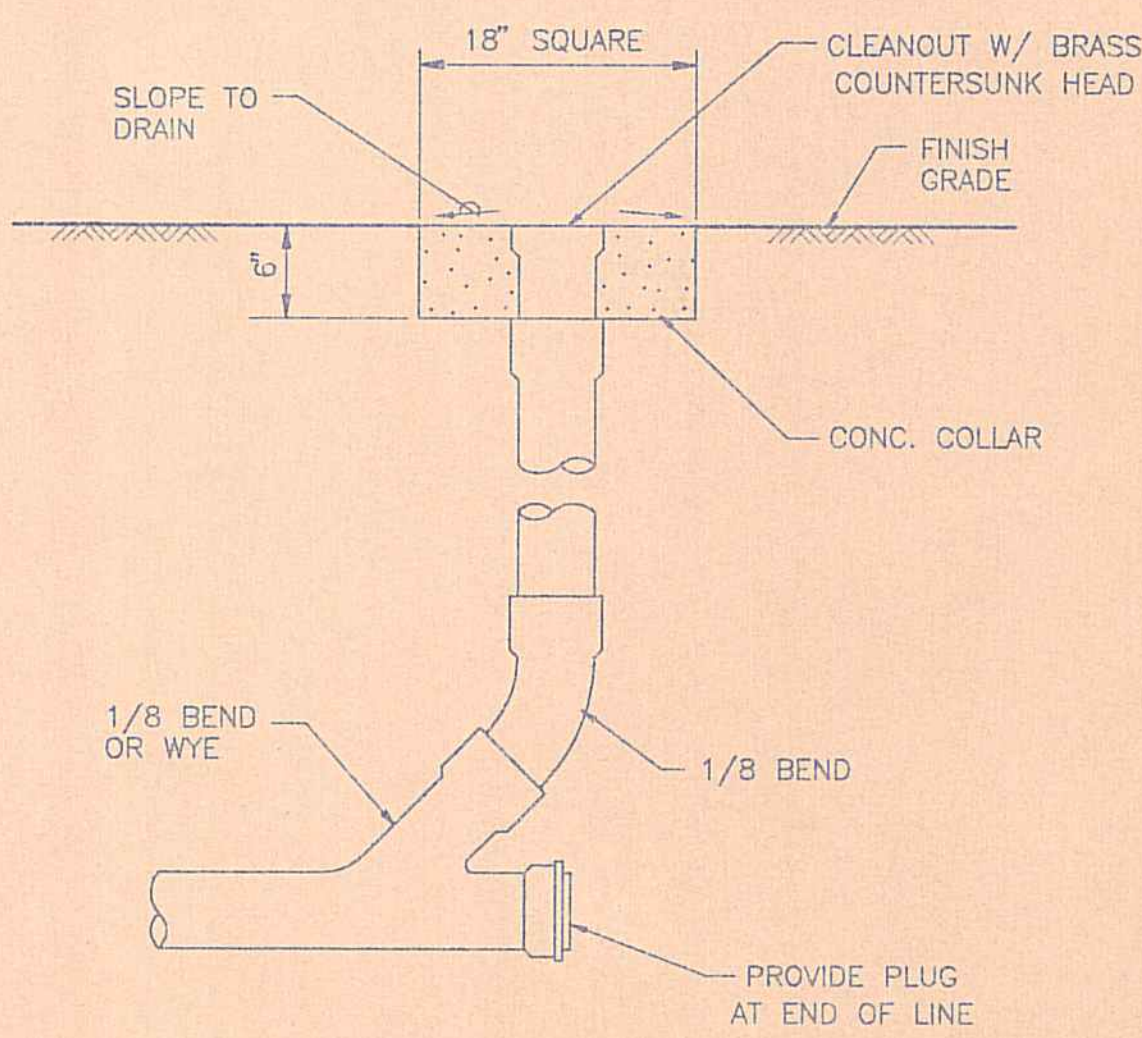
UTILITY TRENCH AND PAVEMENT RESTORATION DETAIL
NOT TO SCALE

- NOTES:
1. FOR WORK WITHIN EXIST. COUNTY STREETS RESTORE PAVEMENT TO MATCH EXIST. PAVEMENT.
 2. MINIMUM THICKNESS OF PAVEMENT:
2 1/2" A.C. PAVEMENT
6" AGGREGATE BASE COURSE
6" AGGREGATE SUBBASE
 3. CONTRACTOR SHALL COLD MIX TRENCH IF PERMANENT RESTORATION CANNOT BE MADE WITHIN ONE DAY OF BACKFILLING.



DETAIL-ABSORPTION TRENCH
NOT TO SCALE

- NOTES:
1. TRENCH BOTTOM AND SIDEWALLS SHALL BE RAKED TO SCARIFY SMEARED SOIL SURFACES.
 2. CONSTRUCTION EQUIPMENT NOT NEEDED TO CONSTRUCT THE SYSTEM SHALL BE KEPT OFF THE AREA TO BE UTILIZED FOR THE ABSORPTION TRENCH SYSTEM TO PREVENT UNDESIRABLE COMPACTION OF THE SOILS.
 3. CONSTRUCTION SHALL NOT BE INITIATED WHEN THE SOIL MOISTURE CONTENT IS HIGH. IF A FRAGMENT OF SOIL OCCURRING APPROXIMATELY NINE INCHES BELOW THE SURFACE CAN EASILY BE ROLLED INTO A WIRE, THE SOIL MOISTURE CONTENT IS TOO HIGH FOR CONSTRUCTION PURPOSES.
 4. SEE SHEET C-6 FOR INVERTS OF PERFORATED PIPES.



DETAIL-CLEANOUT (COTG)
NOT TO SCALE

APPROVED:

MANAGER
DEPARTMENT OF WATER SUPPLY

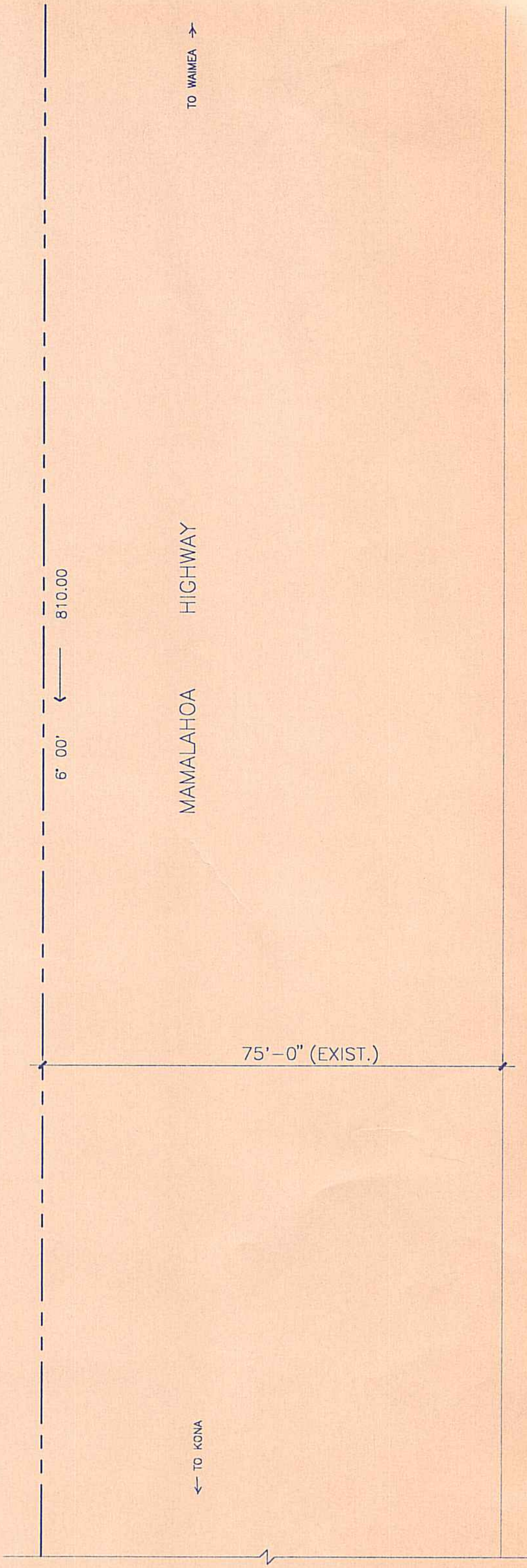
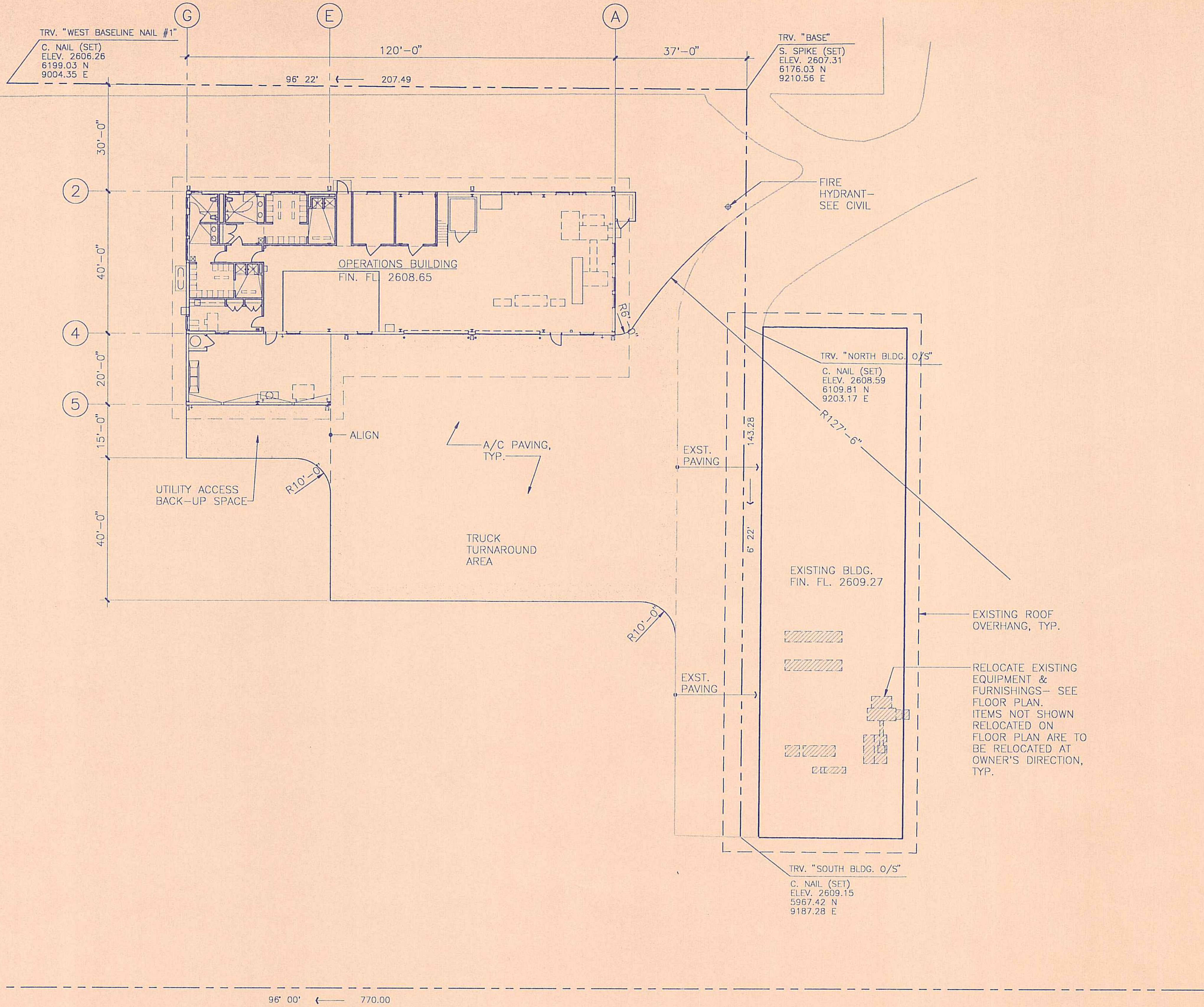
DATE

CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS
(FOR WORK WITHIN COUNTY R/W ONLY)

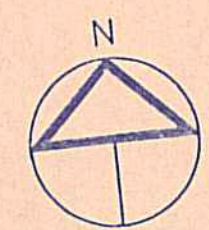
DATE

REVISION NO.	SYMBOL	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF WATER AND LAND DEVELOPMENT					
STATE TREE NURSERY OPERATIONS BUILDING LALAMILO, SOUTH KOHALA, HAWAII					
MISCELLANEOUS DETAILS					
FINAL SUBMITTAL					
DESIGNED: CTK,SY	SUBMITTED: <i>nd</i>				
DRAWN: SY	DATE: MAY 12, 1994				
CHECKED: DM	SCALE: AS NOTED				
APPROVED: <i>[Signature]</i>	DATE: 5.17.94		DRAWING NO. C-7		
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION					
MANAGER-CHIEF ENGINEER					

/users/hp3/94017/details



20 SITE PLAN
1/16" = 1'-0"



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

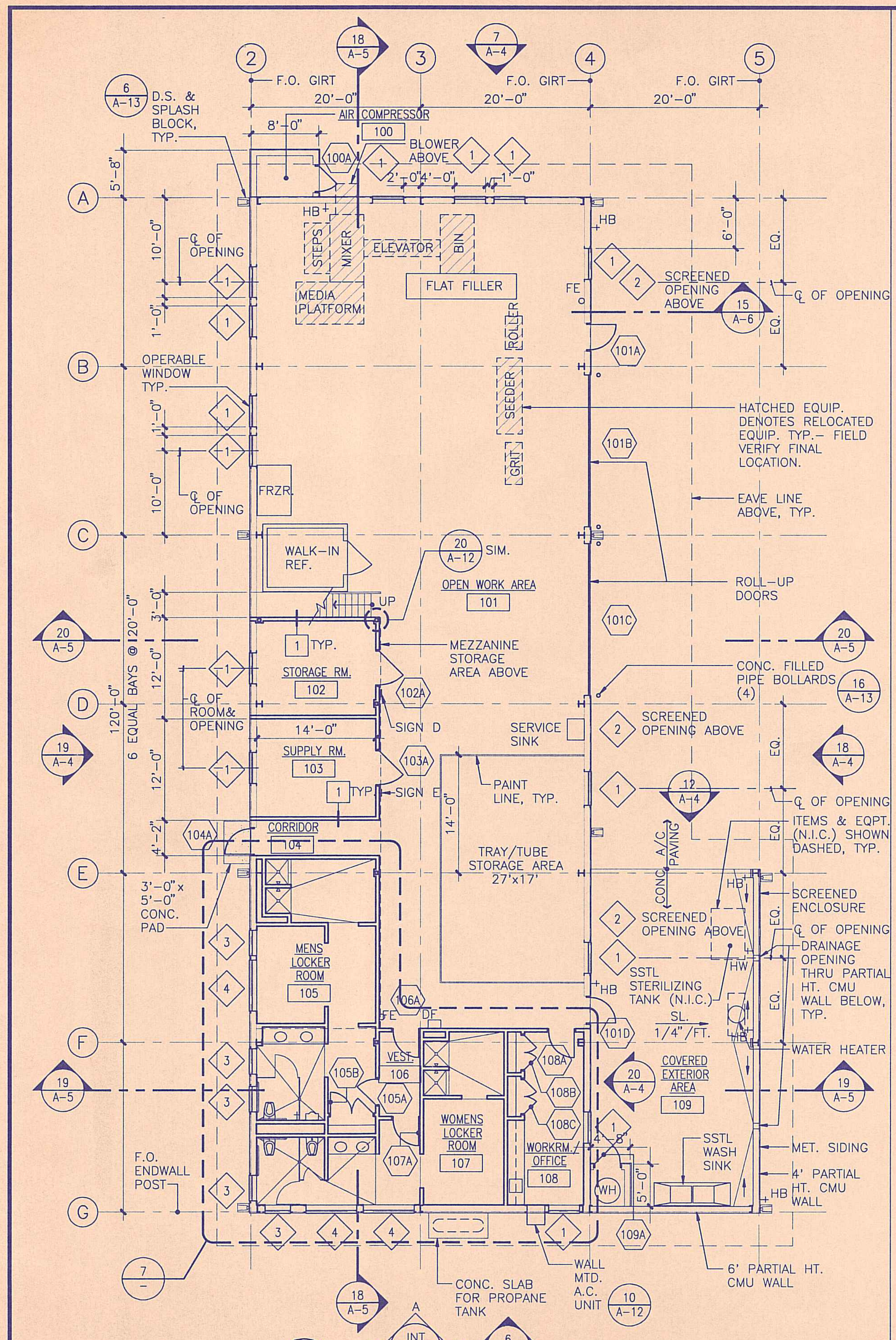
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER AND LAND DEVELOPMENT

STATE TREE NURSERY OPERATIONS BUILDING
LALAMILO, SOUTH KOHALA, HAWAII

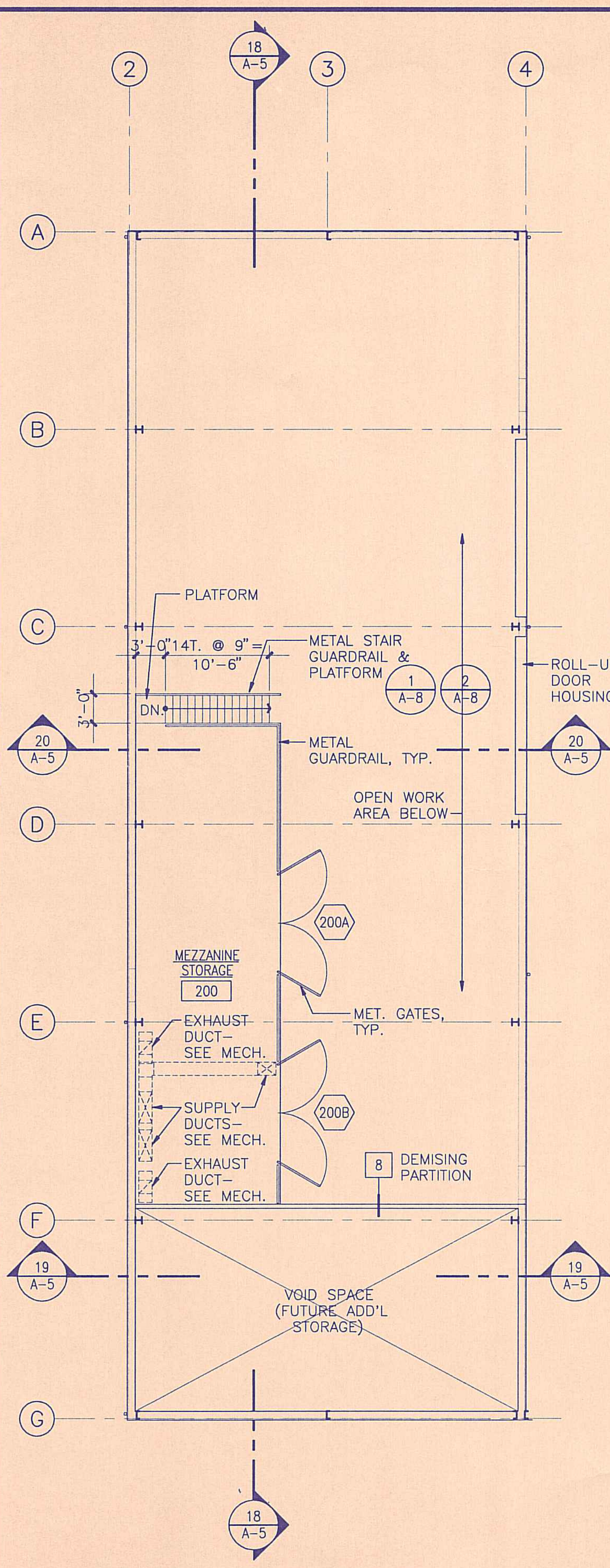
SITE PLAN

FINAL SUBMITTAL

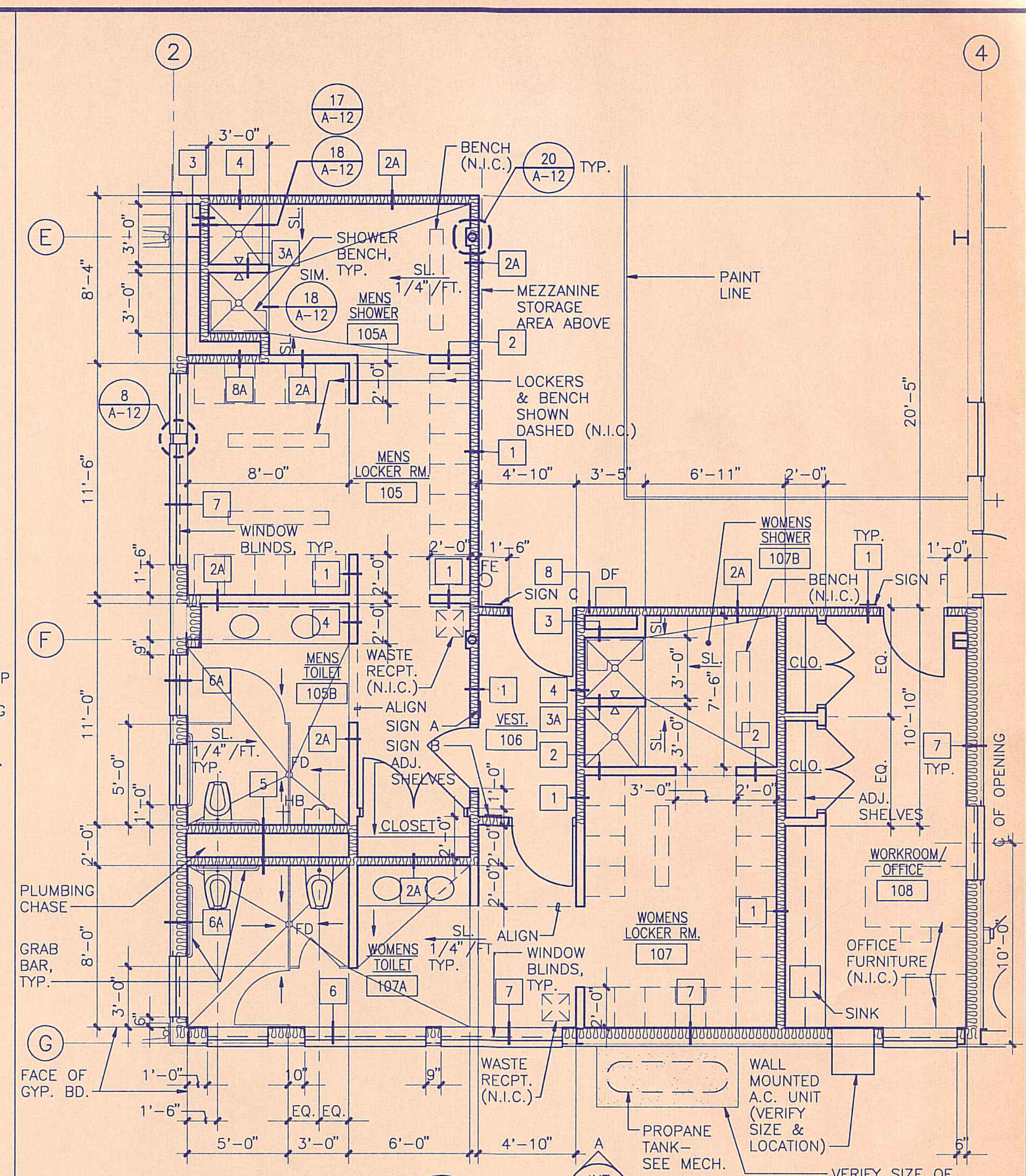
DESIGNED: EA	SUBMITTED: <i>me</i>
DRAWN: KK	DATE: MAY 12, 1994
CHECKED: WH	SCALE: 1/16" = 1'-0"
APPROVED: <i>Ronald H. Kunimitsu</i>	DRAWING NO. A-1
SIGNATURE	DATE: 5-17-94
MANAGER-CHIEF ENGINEER	DATE



20 FLOOR PLAN
 1/8" = 1'-0"
 NOTES: SEE ENLARGED PLAN FOR ADDITIONAL PARTITION TYPE DESIGNATIONS.
 SEE SHEET A-14 FOR SIGNAGE TYPES AND DETAILS.



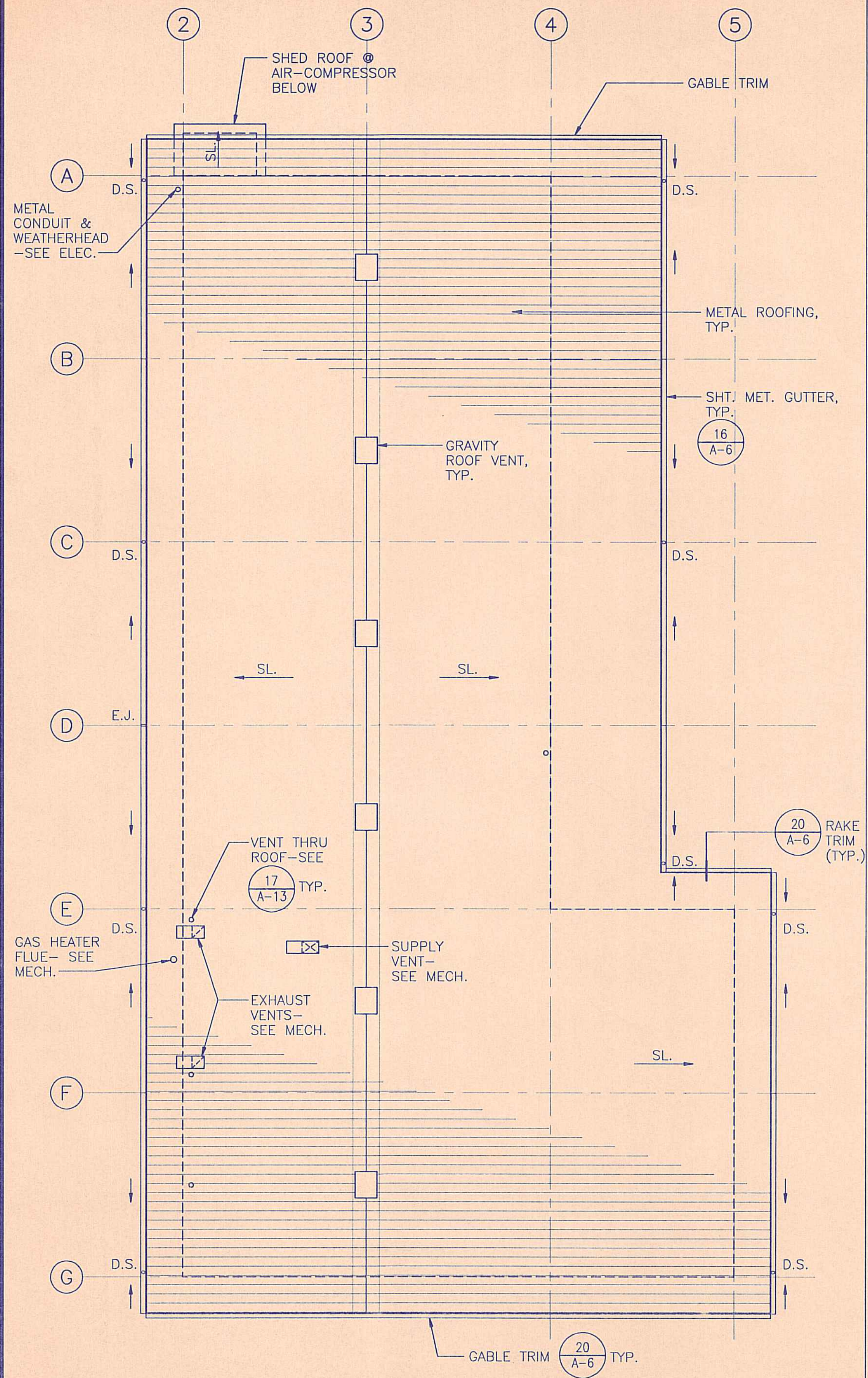
12 MEZZANINE PLAN
 1/8" = 1'-0"



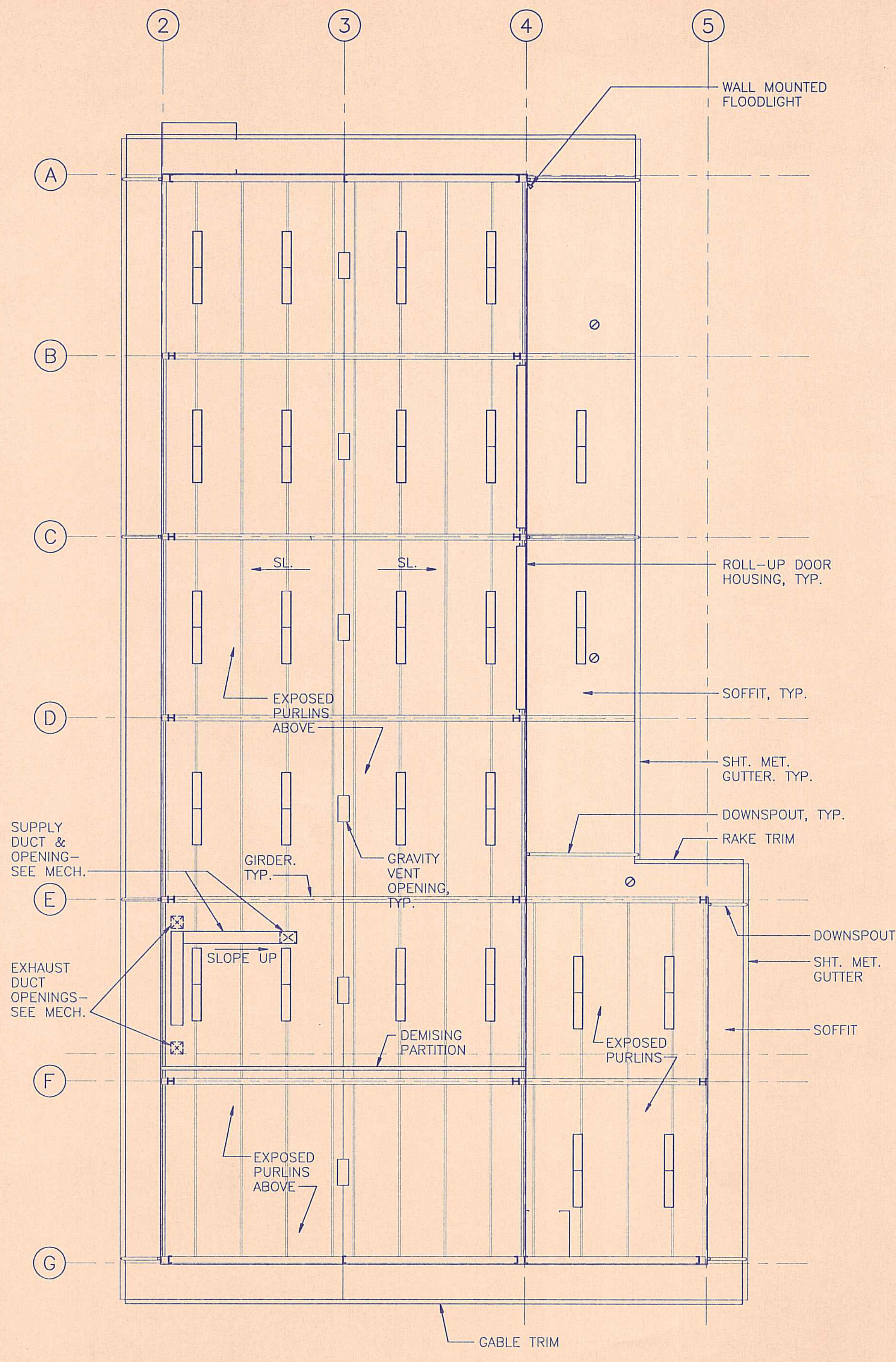
7 ENLARGED PLAN
 1/4" = 1'-0"
 NOTES: ALL DIMS. SHOWN ARE TO F.O. FIN. UNLESS OTHERWISE NOTED.
 SEE SHEET A-14 FOR SIGNAGE TYPES AND DETAILS.

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

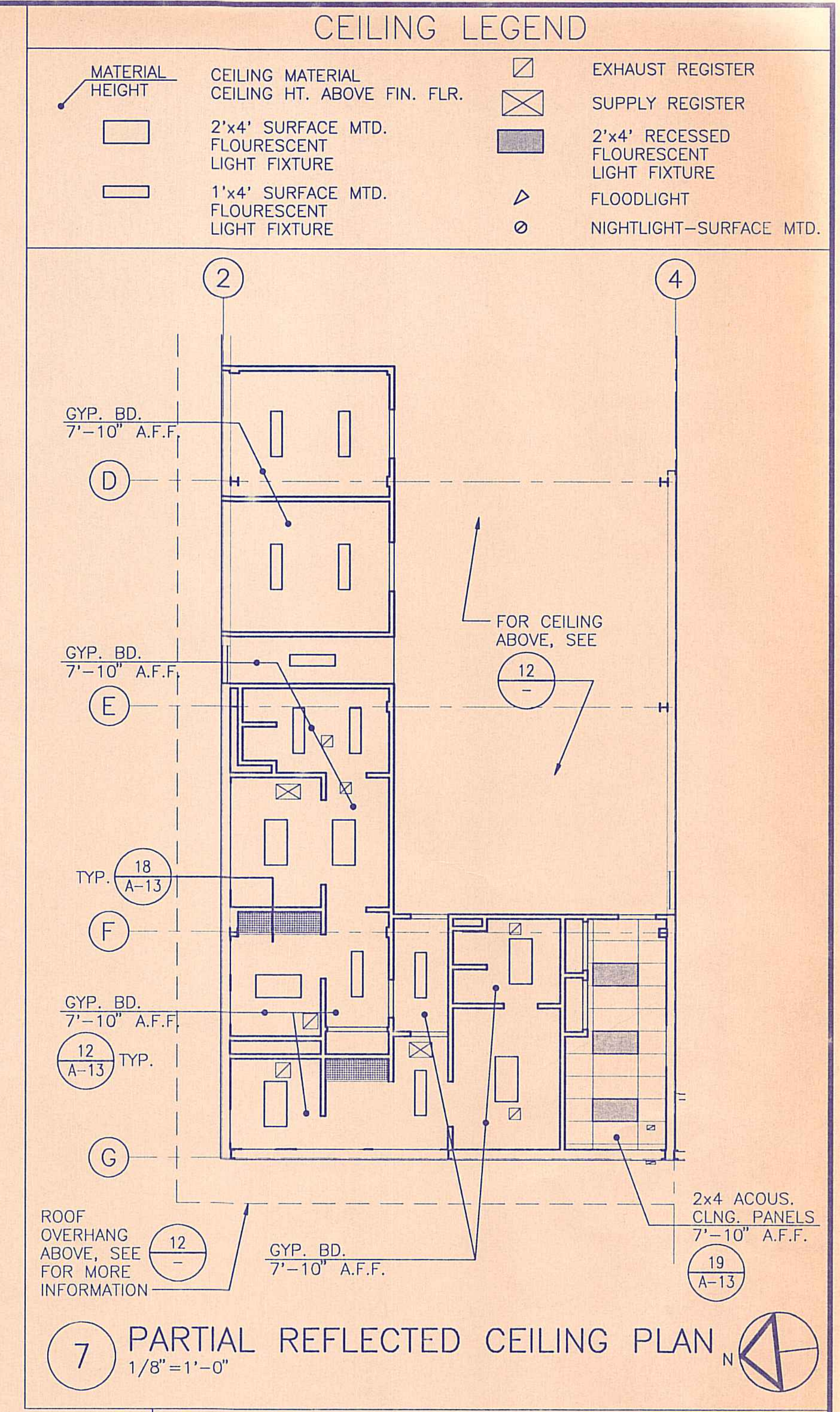
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF WATER AND LAND DEVELOPMENT	
STATE TREE NURSERY OPERATIONS BUILDING LALAMILO, SOUTH KOHALA, HAWAII	
FLOOR & MEZZANINE PLANS	
FINAL SUBMITTAL	
DESIGNED: EA	SUBMITTED: <i>me</i>
DRAWN: KK	DATE: MAY 12, 1994
CHECKED: WH	SCALE: AS NOTED
APPROVED: <i>Ronald H. Kunimitsu</i>	DRAWING NO. A-2
MANAGER-CHIEF ENGINEER	DATE: 5.11.94



20 ROOF PLAN
1/8" = 1'-0"



12 REFLECTED CEILING PLAN
1/8" = 1'-0"



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER AND LAND DEVELOPMENT

STATE TREE NURSERY OPERATIONS BUILDING
LALAMILO, SOUTH KOHALA, HAWAII

ROOF & RCP PLANS

FINAL SUBMITTAL

DESIGNED: EA	SUBMITTED: [Signature]
DRAWN: KK	DATE: MAY 12, 1994
CHECKED: WH	SCALE: 1/8" = 1'-0"
APPROVED: [Signature]	DRAWING NO. A-3
MANAGER-CHIEF ENGINEER	DATE: 5-11-94

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Ronald H. Kunitz
REGISTERED PROFESSIONAL ARCHITECT
No. 4456
HAWAII, U.S.A.