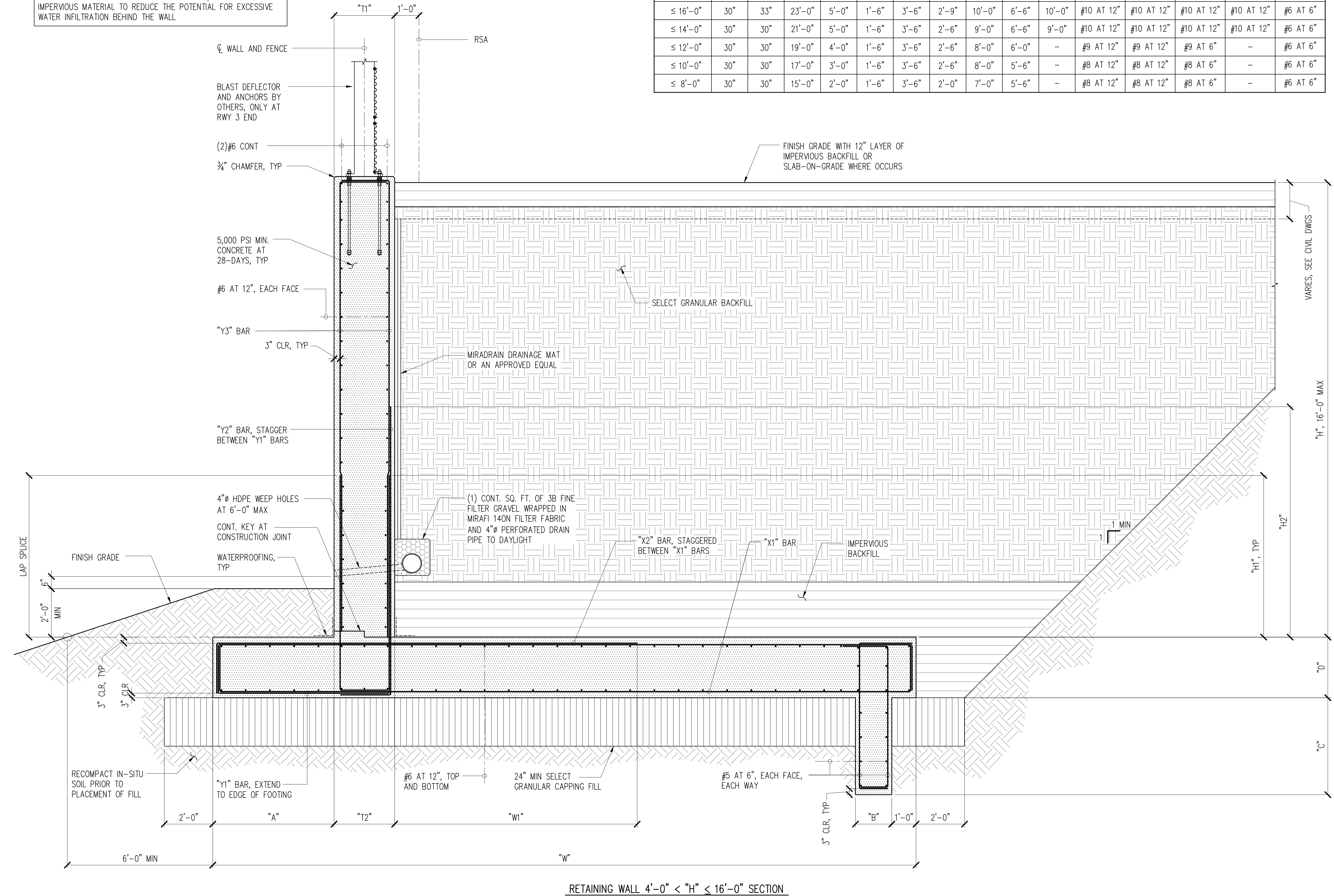


NOTES:
BACKFILL BEHIND THE PERMEABLE DRAINAGE ZONE SHOULD CONSIST OF SELECT GRANULAR FILL MATERIAL OR ON-SITE CLAYEY SOILS. UNLESS COVERED BY CONCRETE SLABS, THE UPPER 12 INCHES OF BACKFILL SHOULD CONSIST OF LOW-EXPANSION, RELATIVELY IMPERVIOUS MATERIAL TO REDUCE THE POTENTIAL FOR EXCESSIVE WATER INFILTRATION BEHIND THE WALL.

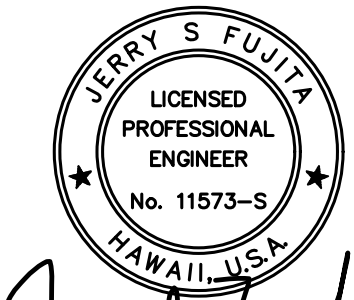
RETAINING WALL SCHEDULE															
HEIGHT "H"	"T1"	"T2"	"W"	"A"	"B"	"C"	"D"	"W1"	"H1"	"H2"	"X1" BARS	"X2" BARS	"Y1" BARS	"Y2" BARS	"Y3" BARS
≤ 16'-0"	30"	33"	23'-0"	5'-0"	1'-6"	3'-6"	2'-9"	10'-0"	6'-6"	10'-0"	#10 AT 12"	#10 AT 12"	#10 AT 12"	#10 AT 12"	#6 AT 6"
≤ 14'-0"	30"	30"	21'-0"	5'-0"	1'-6"	3'-6"	2'-6"	9'-0"	6'-6"	9'-0"	#10 AT 12"	#10 AT 12"	#10 AT 12"	#10 AT 12"	#6 AT 6"
≤ 12'-0"	30"	30"	19'-0"	4'-0"	1'-6"	3'-6"	2'-6"	8'-0"	6'-0"	-	#9 AT 12"	#9 AT 12"	#9 AT 6"	-	#6 AT 6"
≤ 10'-0"	30"	30"	17'-0"	3'-0"	1'-6"	3'-6"	2'-6"	8'-0"	5'-6"	-	#8 AT 12"	#8 AT 12"	#8 AT 6"	-	#6 AT 6"
≤ 8'-0"	30"	30"	15'-0"	2'-0"	1'-6"	3'-6"	2'-0"	7'-0"	5'-6"	-	#8 AT 12"	#8 AT 12"	#8 AT 6"	-	#6 AT 6"



RETAINING WALL 4'-0" < "H" ≤ 16'-0" SECTION



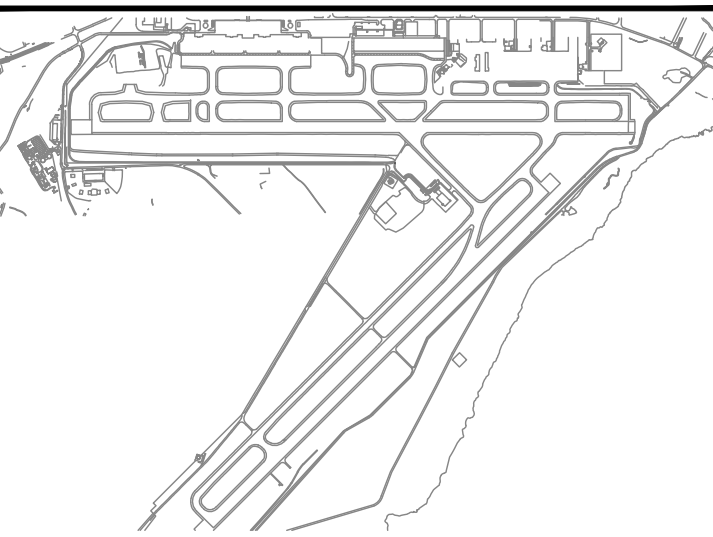
Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



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DSGN.	DRWN.	CHKD.	APPD.
BUM	CADD	MH	MH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS

JULY 2022
DATE

PROJECT TITLE :

RELOCATE
RUNWAY 3-21

AT
LIHUE AIRPORT
LIHUE, KAUAI, HAWAII

PROJECT NO.:

AK1031-14

SHEET TITLE:

TYPICAL RETAINING
WALL DETAIL-1

DATE :	DWG. NO.
07/2022	S2.1
SHEET :	
307 OF 376 SHEETS	

11"

5"

3/4" CHAMFER, TYP

(2) #6 CONT

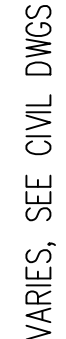
3/4" CHAMFER, TYP

VARIES

3'-6" MAX, 1'-0" MIN

FOR CONCRETE PARAPET DETAIL, SEE S3.1

- FINISH GRADE WITH 12" LAYER OF IMPERVIOUS BACKFILL OR SLAB-ON-GRADE WHERE OCCURS



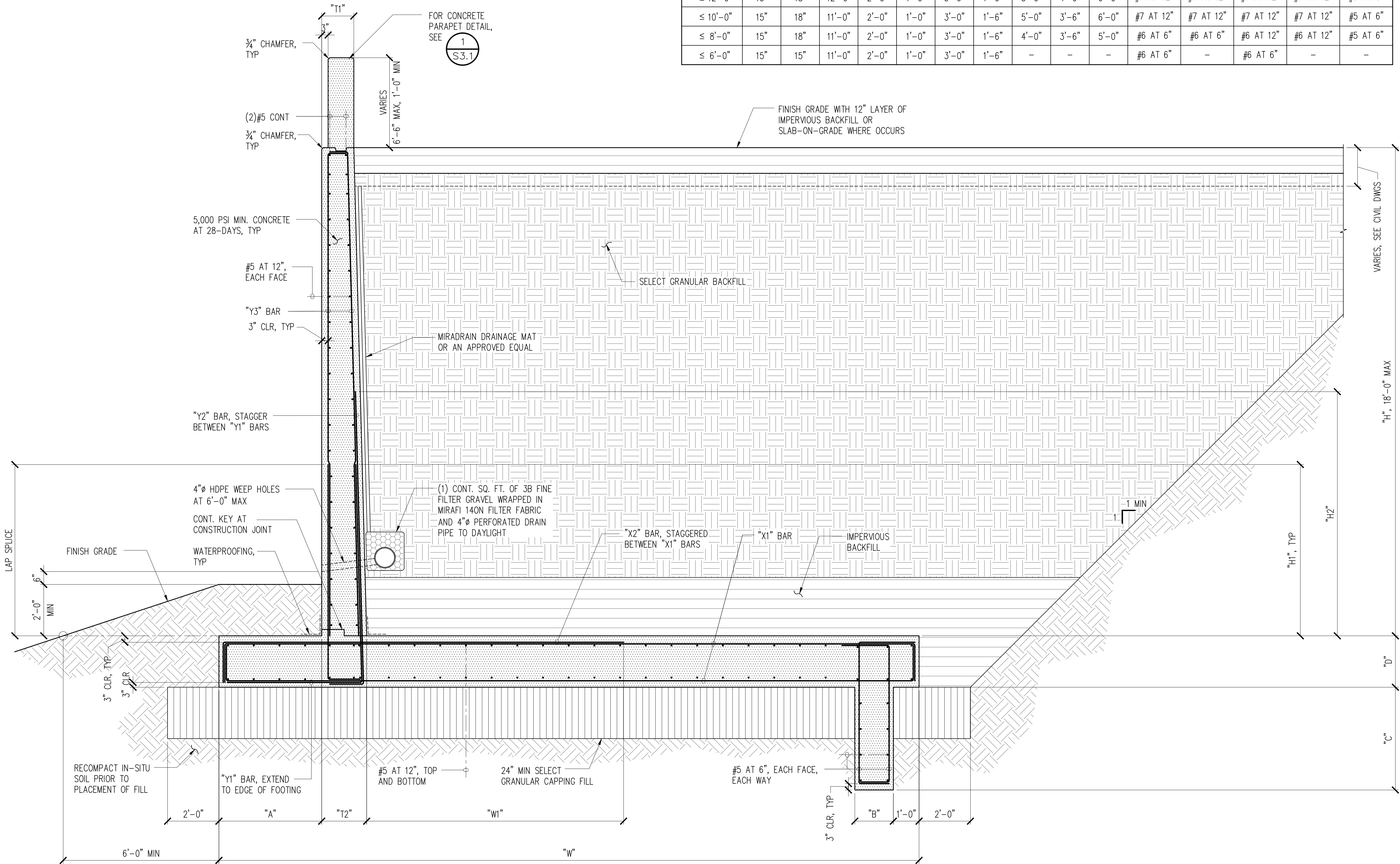
1 TYPE 2 WALL
S2.2 NOT TO SCALE



22

NOTES:
BACKFILL BEHIND THE PERMEABLE DRAINAGE ZONE SHOULD CONSIST OF SELECT GRANULAR FILL MATERIAL OR ON-SITE CLAYEY SOILS. UNLESS COVERED BY CONCRETE SLABS, THE UPPER 12 INCHES OF BACKFILL SHOULD CONSIST OF LOW-EXPANSION, RELATIVELY IMPERVIOUS MATERIAL TO REDUCE THE POTENTIAL FOR EXCESSIVE WATER INFILTRATION BEHIND THE WALL

RETAINING WALL SCHEDULE															
HEIGHT "H"	"T1"	"T2"	"W"	"A"	"B"	"C"	"D"	"W1"	"H1"	"H2"	"X1" BARS	"X2" BARS	"Y1" BARS	"Y2" BARS	"Y3" BARS
≤ 20'-0"	15"	24"	20'-0"	3'-0"	1'-9"	4'-0"	2'-0"	9'-0"	6'-0"	10'-0"	#9 AT 12	#9 AT 12"	#9 AT 12"	#9 AT 12"	#6 AT 6"
≤ 18'-0"	15"	24"	18'-0"	3'-0"	1'-9"	4'-0"	2'-0"	8'-0"	5'-6"	9'-0"	#8 AT 12	#8 AT 12"	#8 AT 12"	#8 AT 12"	#6 AT 6"
≤ 16'-0"	15"	21"	16'-0"	3'-0"	1'-6"	3'-6"	2'-0"	7'-0"	5'-6"	8'-0"	#8 AT 12"	#8 AT 12"	#8 AT 12"	#8 AT 12"	#6 AT 6"
≤ 14'-0"	15"	21"	14'-0"	2'-0"	1'-6"	3'-6"	2'-0"	6'-0"	4'-6"	7'-0"	#7 AT 12"	#7 AT 12"	#7 AT 12"	#7 AT 12"	#6 AT 6"
≤ 12'-0"	15"	18"	12'-0"	2'-0"	1'-6"	3'-6"	1'-6"	5'-0"	4'-6"	6'-0"	#7 AT 12"	#7 AT 12"	#7 AT 12"	#7 AT 12"	#6 AT 6"
≤ 10'-0"	15"	18"	11'-0"	2'-0"	1'-0"	3'-0"	1'-6"	5'-0"	3'-6"	6'-0"	#7 AT 12"	#7 AT 12"	#7 AT 12"	#7 AT 12"	#5 AT 6"
≤ 8'-0"	15"	18"	11'-0"	2'-0"	1'-0"	3'-0"	1'-6"	4'-0"	3'-6"	5'-0"	#6 AT 6"	#6 AT 6"	#6 AT 12"	#6 AT 12"	#5 AT 6"
≤ 6'-0"	15"	15"	11'-0"	2'-0"	1'-0"	3'-0"	1'-6"	-	-	-	#6 AT 6"	-	#6 AT 6"	-	-

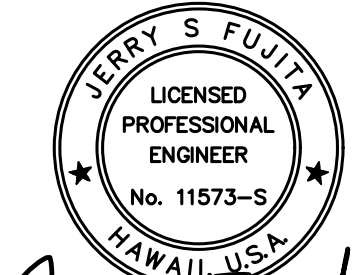


1 TYPE 3 WALL
S2.3 NOT TO SCALE

RETAINING WALL 4'-0" < "H" ≤ 20'-0" SECTION



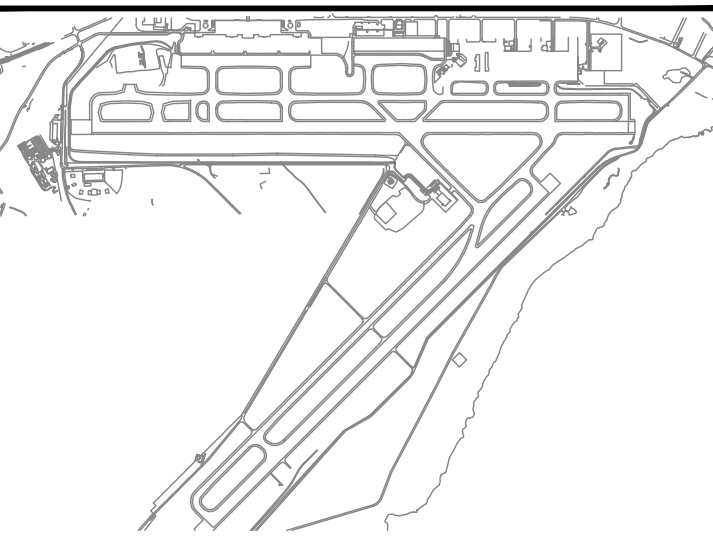
Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



Signature: *Jerry S. Fujita* Expires: April 30, 2024
DATE: _____
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DSGN.	DRWN.	CHKD.	APPD.
BUM	CADD	MH	MH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
-----	------	-----------

CONSTRUCTION DOCUMENTS
JULY 2022
DATE

PROJECT TITLE :

RELOCATE RUNWAY 3-21
AT LIHUE AIRPORT
LIHUE, KAUAI, HAWAII

PROJECT NO.:

AK1031-14

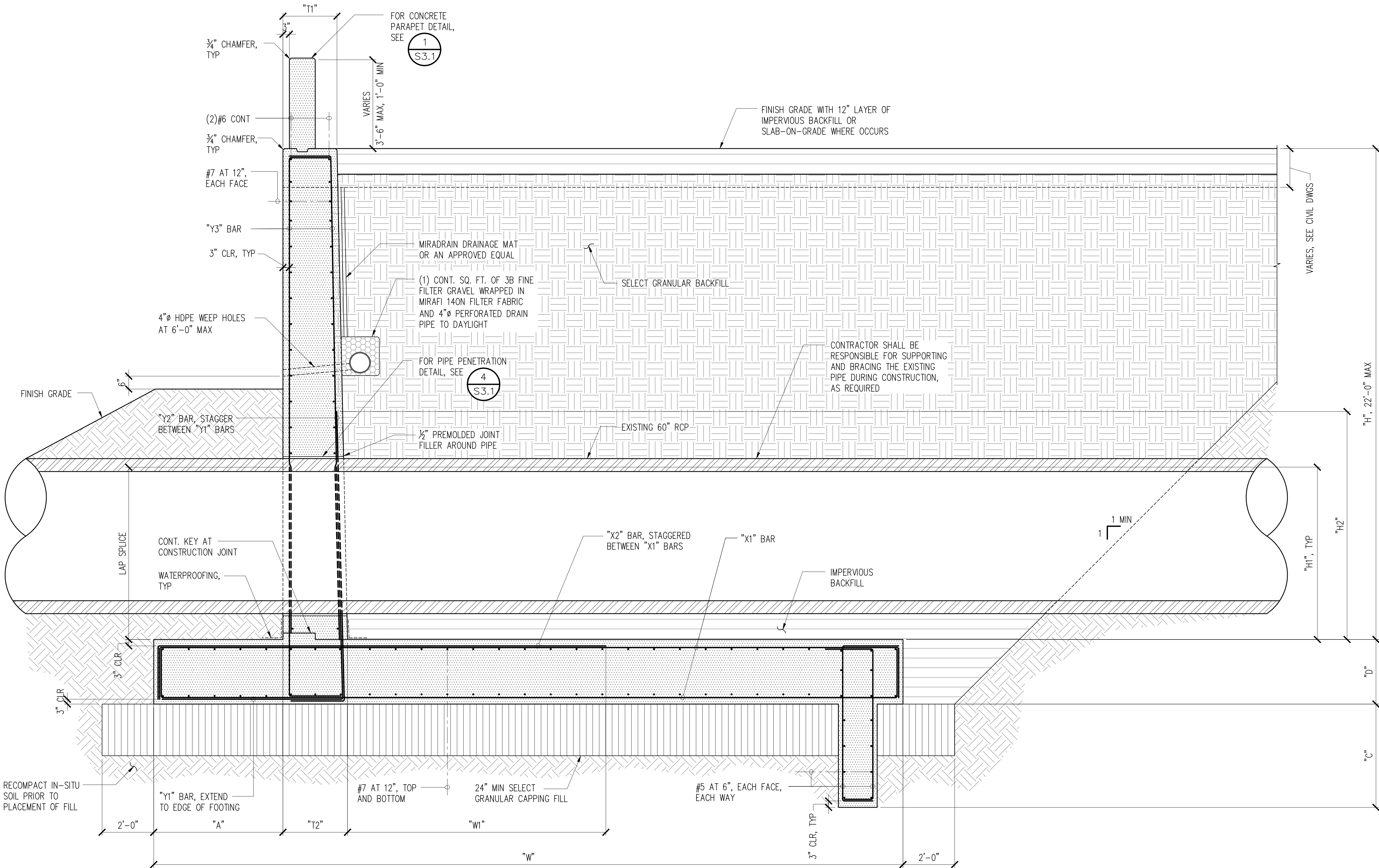
SHEET TITLE:

TYPICAL RETAINING WALL DETAIL-3

DATE :	DWG. NO.
07/2022	S2.3
SHEET :	
309 OF 376 SHEETS	

NOTES:
BACKFILL BEHIND THE PERMEABLE DRAINAGE ZONE SHOULD CONSIST OF SELECT GRANULAR FILL MATERIAL OR ON-SITE CLAYEY SOILS. UNLESS COVERED BY CONCRETE SLABS, THE UPPER 12 INCHES OF BACKFILL SHOULD CONSIST OF LOW-EXPANSION, RELATIVELY IMPERVIOUS MATERIAL TO REDUCE THE POTENTIAL FOR EXCESSIVE WATER INFILTRATION BEHIND THE WALL

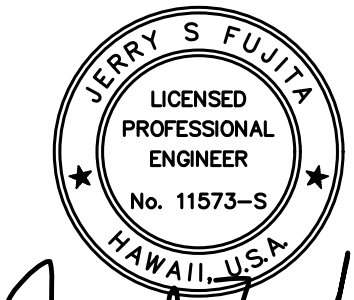
RETAINING WALL SCHEDULE															
HEIGHT "H"	"T1"	"T2"	"W"	"A"	"B"	"C"	"D"	"W1"	"H1"	"H2"	"X1" BARS	"X2" BARS	"Y1" BARS	"Y2" BARS	"Y3" BARS
≤ 22'-0"	24"	42"	30'-0"	8'-0"	1'-9"	4'-0"	3'-6"	12'-0"	7'-6"	13'-0"	#11 AT 12"	#11 AT 12"	#11 AT 12"	#11 AT 12"	#8 AT 6"



RETAINING WALL "H" ≤ 22'-0" SECTION



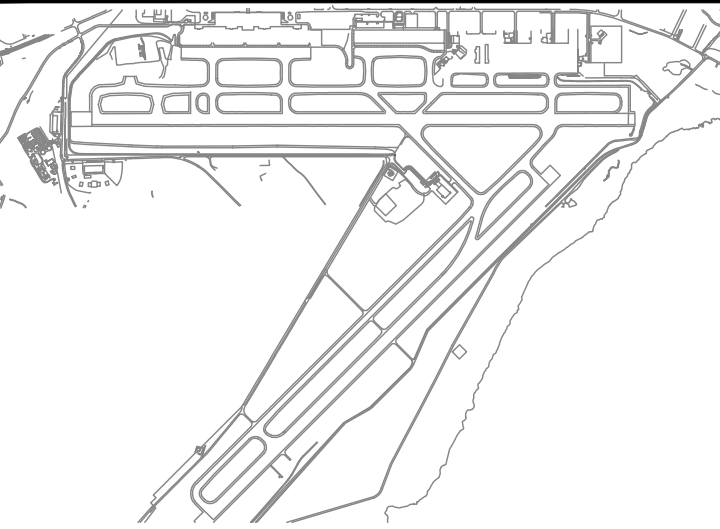
Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



Signature: *Jerry S. Fujita* Expires: April 30, 2024
DATE: _____
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DSGN.	DRWN.	CHKD.	APPD.
BUM	CADD	MH	MH

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
-----	------	-----------

CONSTRUCTION DOCUMENTS
JULY 2022
DATE

PROJECT TITLE :

RELOCATE RUNWAY 3-21
AT LIHUE AIRPORT
LIHUE, KAUAI, HAWAII

PROJECT NO.:

AK1031-14

SHEET TITLE:

TYPICAL RETAINING WALL DETAIL- 4

DATE :	DWG. NO.
07/2022	S2.4
SHEET :	
310 OF 376 SHEETS	