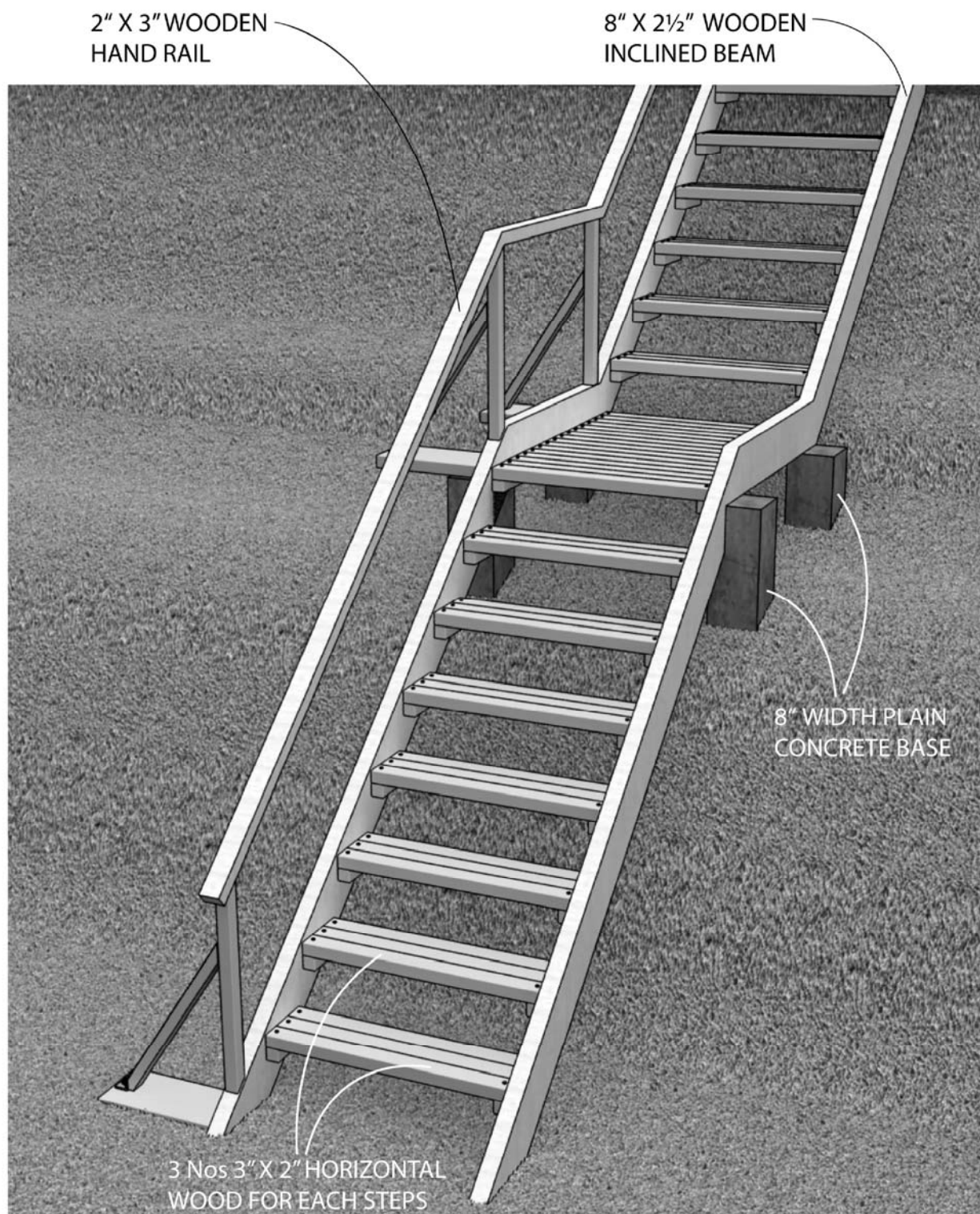


7A

STEPS AND RAILINGS FOR STEEP HIKING TRAILS (9" STEPS)

Design Drawings.



NISHORGO SUPPORT PROJECT
&
DEPT. OF FOREST GOB.

Prepared by :
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E-mail : vittibd@gmail.com

SCALE : NOT TO SCALE

DRAWN : SHAMEEM

DATE : MARCH, 2007.

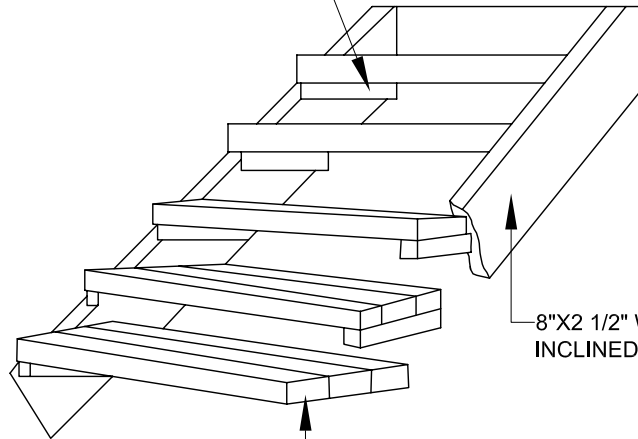
SHEET NO : 7A 1

(7A)

STEPS AND RAILINGS FOR STEEP HIKING TRAILS (9" STEPS)

Design Drawings.

2"X2" WODDEN CLEAT FOR SUPPORT.

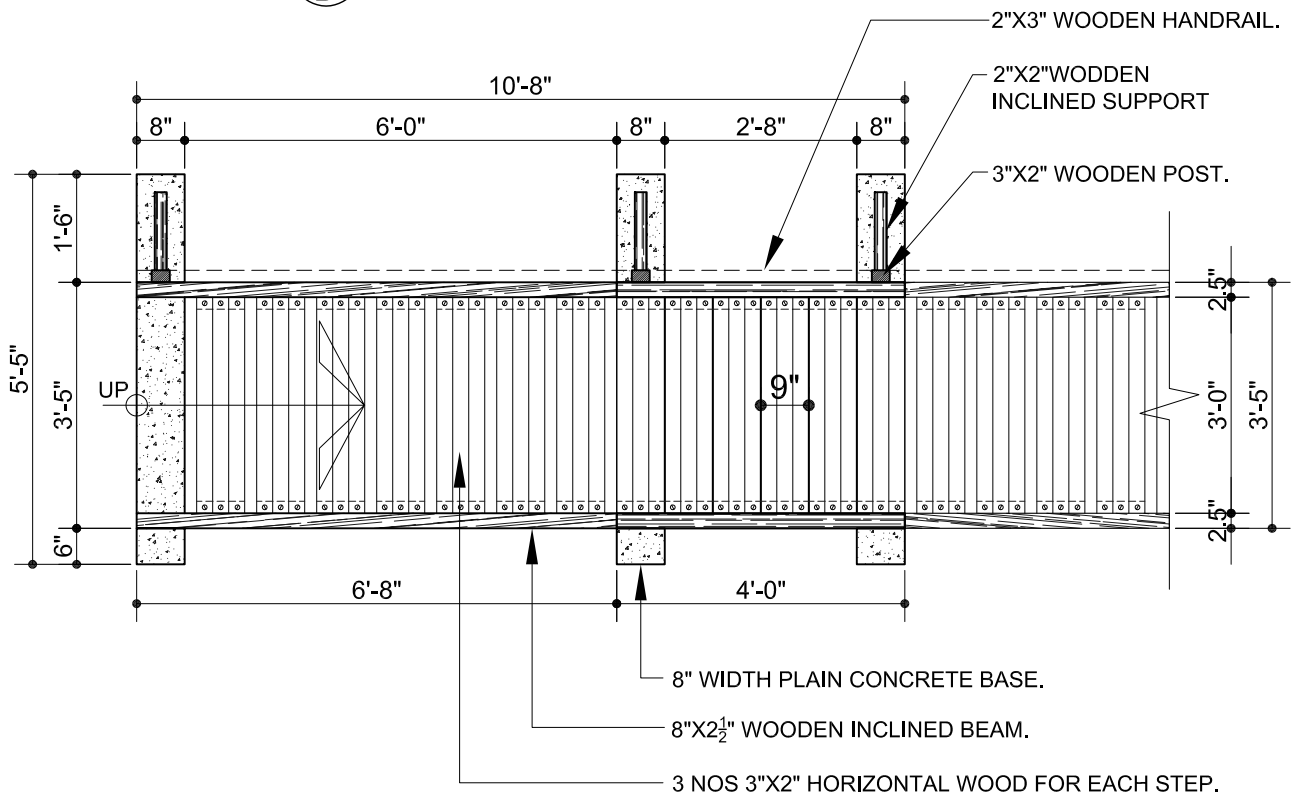


8"X2 1/2" WOODEN INCLINED BEAM.

3 NOS 3"X2" HORIZONTAL WOOD FOR EACH STEP.



DETAIL : X



PLAN



NISHORGO SUPPORT PROJECT
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SCALE : 3/8" = 1'-0"

DRAWN : SHAMEEM

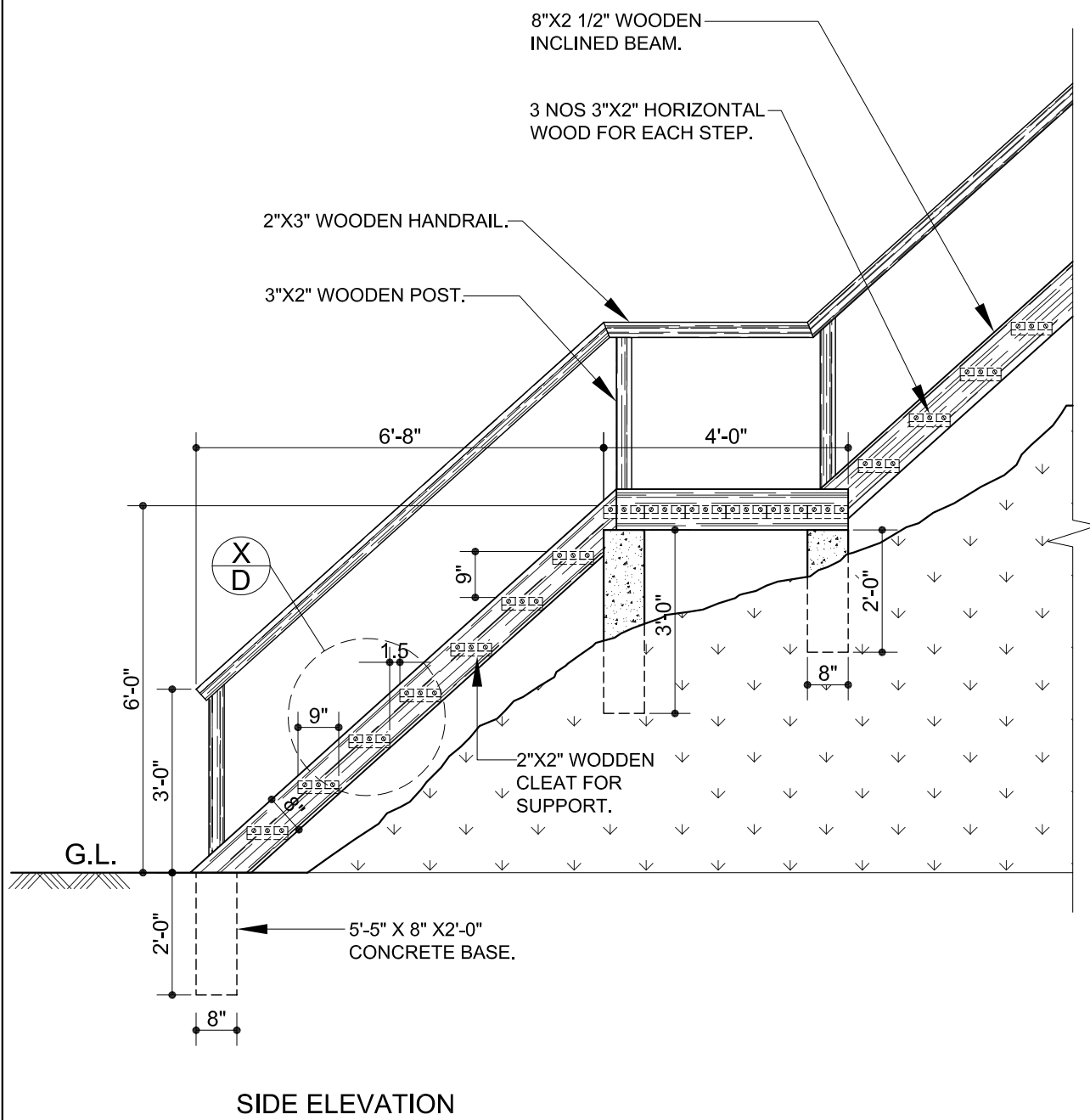
DATE : MARCH, 2007.

SHEET NO : 7A 2

(7A)

STEPS AND RAILINGS FOR STEEP HIKING TRAILS (9" STEPS)

Design Drawings.



NISHORGO SUPPORT PROJECT
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SCALE : 3/8" = 1'-0"

DRAWN : SHAMEEM

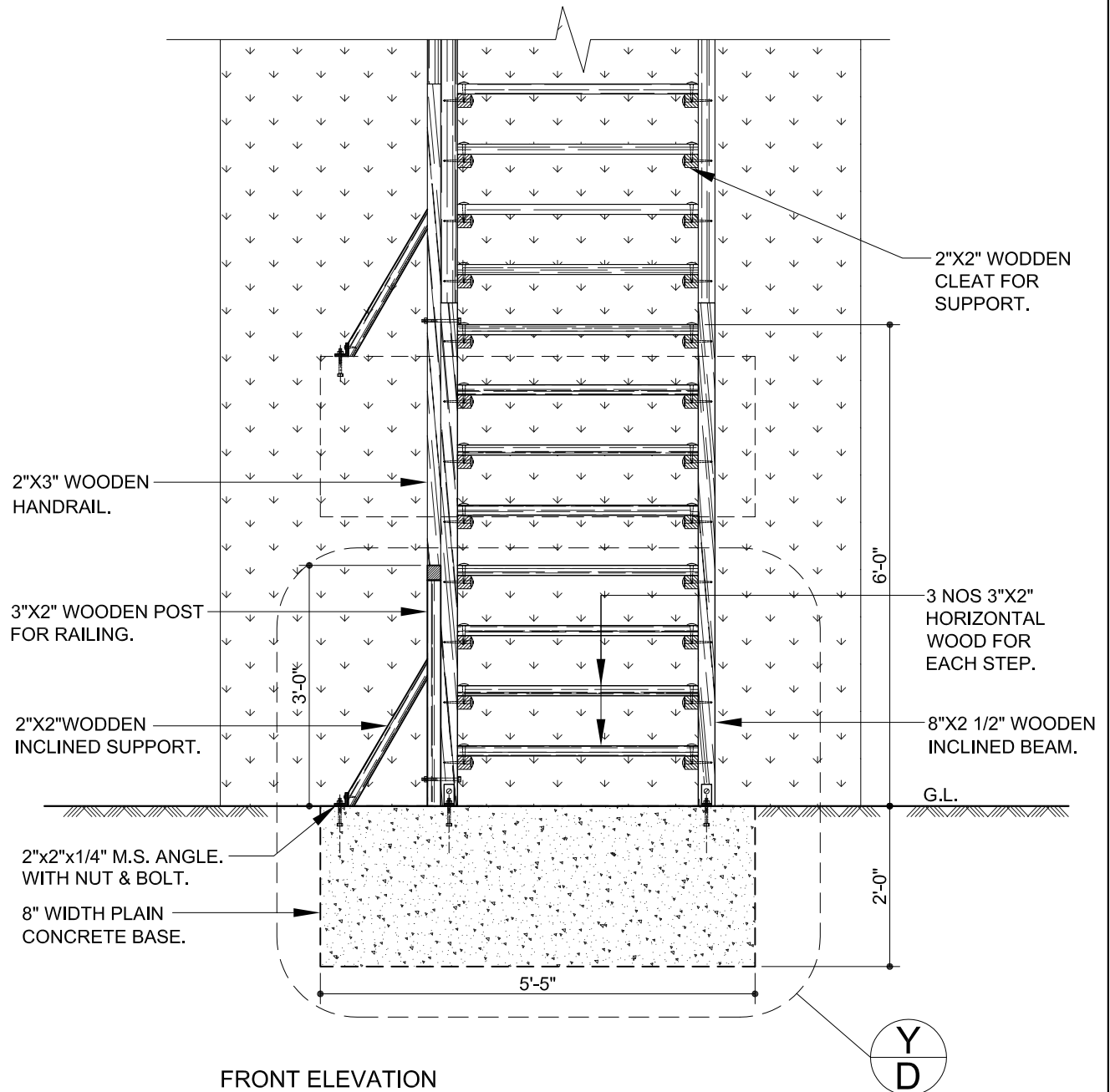
DATE : MARCH, 2007.

SHEET NO : 7A 3

7A

STEPS AND RAILINGS FOR STEEP HIKING TRAILS (9" STEPS)

Design Drawings.



NISHORGO SUPPORT PROJECT
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SCALE : 1/2" = 1'-0"

DRAWN : SHAMEEM

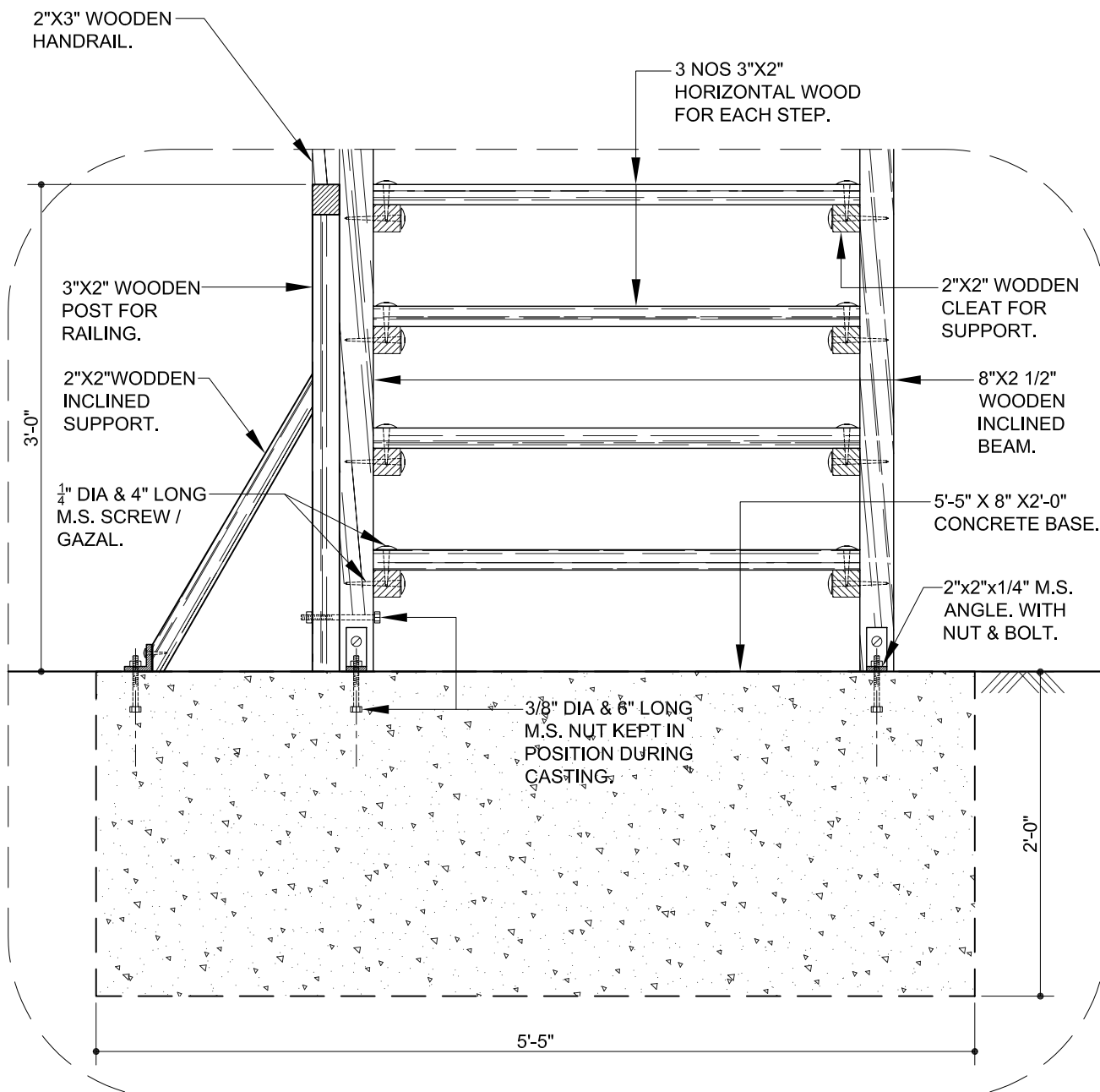
DATE : MARCH, 2007.

SHEET NO : 7A 4

7A

STEPS AND RAILINGS FOR STEEP HIKING TRAILS (9" STEPS)

Design Drawings.



Y
D

DETAIL : Y



NISHORGO SUPPORT PROJECT
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SCALE : 1" = 1'-0"
DRAWN : SHAMEEM
DATE : MARCH, 2007.
SHEET NO : 7A 5

07.A

STEPS & RAILINGS FOR STEEP HIKING TRAILS (9" STEPS)

Technical Data and Specifications

Components Required for one Flight & one landing of 13'-0" way :

Description	Characteristics	Unit	Dimensions		
			Height	Length	Width
Concrete Base	Concrete Cast-in-situ block for foundation (1:2:4)	2 Nos	2'-0"	5'-5"	8"
		1 No	3'-0"	5'-5"	8"
Wood work (inclined)	Wooden beam (Garjon)	2 Nos.	8"	9'-0"	2.5"
Wood work	Horizontal wooden beam	2 Nos.	8"	4'-0"	2.5"
Wood work for step	Horizontal wood plank	39 Nos.	2"	3'-0"	3"
Wood work for step	Wooden cleat for step	26Nos.	2"	9"	2"
Wood work for railing	Wooden vertical post	3 Nos.	3'-0"	3"	2"
Wood work for railing	Wooden hand rail	1 No.	3"	9'-0"	2"
	Wooden hand rail	1 No.	3"	4'-0"	2"
	Wooden inclined support	3 Nos.	2'-10"	2"	2"
Hardware	3/8" dia Nut	9 Nos.	-	6"	3/8" dia
	1/4" Gajal/ wire nail	136 Nos.	-	4"	1/4" dia

Summary of Materials :

Fit out Parts	Type of Materials	Nos.	Volume		Weight	Long
			M ³	(p.m.p.)	(Kg)	(mm)
Cement	Portland Cement				200	
Aggregate	Brick Chips (1/2" to 3/4")		0.62			
Sand	Medium sand (F.M. 1.5)		0.31			
Wood	Garjon Wood		0.30			
Hardware	3/8" dia Nut	9 Nos.				6"
	1/4" Gajal/ wire nail	136 Nos.				4"

Specifications :

1. Concrete should be poured in proportion 1:2:4 (Cement : Sand : Brick chips)
2. Brick chips should be of 20 mm down graded.
3. Sand and chips should be washed with pure water properly before used.
4. The concrete should be softened before compaction for leveling. Necessary cement grouting may use at the time of compaction.
5. Water cement ratio should be properly maintained.
6. All wood should be seasoned and treated.