FOUNDATION DE	SIGN CRITERIA SCHEDULE			
CRITERIA	DESCRIPTION	VALUE	NOTES	
FOUNDATION	ALLOWABLE SOIL BEARING PRESSURE	4000 PSF	EXISTING CONCRETE SLAB	
SPECIAL INSPEC	CTIONS			
THE OWNER SH	ALL EMPLOY ONE OR MORE SPECIAL INSPECTO	RS TO INSPECT THE CONSTRUCTION FOR T	HE FOLLOWING WORK ITEMS	
CATEGORY	DESCRIPTION	INFECTION REFERENCE	FREQUENCY OF INSPECTION	
SOIL	SITE PREPARATION	IBC 1704.7	PERIODIC	
	FILL PLACEMENT	IBC 1704.7	PERIODIC	
	EVALUATION OF IN PLACE DENSITY	IBC 1704.7	PERIODIC	
CONCRETE	REINFORCING STEEL	IBC TABLE 1704.7, ITEM 1	PERIODIC	
	ANCHOR RODS AND BOLTS	IBC TABLE 1704.7, ITEM 3	CONTINUOUS	
	VERIFY DESIGN MIX	IBC TABLE 1704.7, ITEM 4	PERIODIC	
	CONCRETE TESTING	IBC TABLE 1704.7, ITEM 5	CYLINDER SLUMP, AIR & TEMP	
	APPLICATION TECHNIQUES	IBC TABLE 1704.7, ITEM 6	CONTINUOUS	
	CURING TEMPERATURE AND TECHNIQUES	IBC TABLE 1704.7, ITEM 7	PERIODIC	
	FORMWORK SHAPE AND LOCATION	IBC TABLE 1704.7, ITEM 11	PERIODIC	
	POST INSTALLED ANCHORS	INSPECTION OF DRILLED HOLES FOR SIZE & CLEANLINESS, EDGE DISTANCE ADHESIVE INJECTION AND ANCHOR ROD PLACEMENT IN ACCORDANCE WITH MANUFACTURING INSTRUCTIONS.	CONTINUOUS	

SCHEDULE OF CONSTRUCTION MATERIALS					
CONCRETE	28-DAY STRENGTH	MAXIMUM WATER/CEMENT RATIO	AIR ENTRAINMENT		
	4000 P.S.I.	0.45	6% ± 1%		
REINFORCING STEEL	ASTM A615, GRADE 60				
PRE INSTALLED ANCHOR BOLTS	ASTM F1554, HOT DIPPED GALVANIZED, §" DIAMETER, 10" LONG, 90 DEGREE ANCHOR BOLTS.				
POST INSTALLED ANCHOR BOLTS	ASTM F1554, HOT DIPPED GALVANIZED, §" DIAMETER, THREADED ANCHOR RODS. ANCHOR ROD HAVING 7 INCHES EMBEDMENT AND EDGE DISTANCE AS SHOWN. DRILLED HOLE DIAMETER: 3/4". ITW REHEAD A7+ OR HILTI HIT-HY 200 ADHESIVE.				
CONCRETE COVER	FOOTINGS CAST AGAINST EARTH" 3" FOOTINGS CAST AGAINST FORMS: 2" WALLS: 2", EXCEPT WHERE NOTED				
PERSONAL PROTECTIVE EQUIPMENT, MINIMUM	HIGH VISIBILITY VEST, HARDHAT, SAFETY GLASSES, SAFETY TOE WORK BOOTS				

## NOTES:

- 1. SUBMIT REINFORCING STEEL SHOP DRAWINGS WITH DETAILS PER ACI 315 MANUAL OF STANDARD PRACTICE.
- CONCRETE SHALL BE FORMED, BATCHED, PLACED AND CURED PER ASTM C-94, ACI 306R.
- WATER REDUCING AGENT MAY BE ADDED TO CONCRETE TO INCREASE WORKABILITY. MAXIMUM SLUMP OF
- 4. SUPPORT BARS ON GRADE USING PLASTIC CHAIRS.
- AIR USED TO CLEAN HOLES FOR POST INSTALLED ANCHORS MUST BE FREE FROM OIL. COMPRESSOR, IF USED, MUST BE EQUIPPED WITH FUNCTIONING AIR DRYER.
- 6. TOP OF STEM WALL FOUNDATION ELEVATION TO BE WITHIN  $\frac{1}{4}$ " OF LEVEL AND  $\frac{1}{4}$ " OF SQUARE UNLESS STRICTER TOLERANCES ARE REQUIRED BY STEEL MASTER BUILDINGS.
- 7. ENGINEER OF RECORD TO PERFORM STRUCTURAL OBSERVATIONS AS DEFINED IN SECTION 1702 OF IBC AT SIGNIFICANT STAGES OF CONSTRUCTION AND UPON COMPLETION.
- 8. REMOVE SNAP-TIE CONES AND DRY PACK VOIDS WITH MORTAR. PRIOR TO PLACING MORTAR, COAT VOIDS WITH A THIN LAYER OF CEMENT GROUT BONDING AGENT. THE MIX FOR THE BONDING GROUT IS CEMENT AND FINE SAND IN A RATIO OF 1 TO 1 WITH A CONSISTENCY LIKE THICK CREAM. THE DRY PACK MORTAR IS PUT IN PLACE BEFORE THE BONDING GROUT HAS DRIED UP. DRY PACK MORTAR CONTAINS (BY DRY VOLUME OR WEIGHT) ONE PART CEMENT, 2 1/2 PARTS SAND, AND ENOUGH WATER TO PRODUCE A MORTAR THAT WILL JUST STICK TOGETHER WHILE BEING MOLDED INTO A BALL WITH THE HAND. THE BALL SHOULD NEITHER SLUMP WHEN PLACED ON A FLAT SURFACE, NOR CRUMBLE DUE TO LACK OF MOISTURE. PLACE DRY PACK MORTAR IMMEDIATELY AFTER MIXING. COMPACT MORTAR IN THE VOID HOLE WITH BY STRIKING A HARDWOOD DOWEL OF THE HOLE TO ENSURE MAXIMUM COMPACTION. OVERFILL THE HOLE SLIGHTLY, THEN PLACE A PIECE OF HARDWOOD AGAINST THE MORTAR AND STRIKE THE WOOD SEVERAL TIMES WITH A
- 9. MEASURE AND CUT AN EXACT LENGTH OF WATERSTOP. SPLICES ARE NOT PERMITTED. USING A BRUSH, APPLY A UNIFORM ADHESIVE TO THE CONCRETE SURFACE ALONG THE LINE OF PLACEMENT. APPLY A UNIFORM COAT OF ADHESIVE TO THE WATERSTOP. GAPS IN THE GLUE ARE NOT PERMITTED. CONCRETE PLACEMENT BE 12 HOURS. VISUALLY OBSERVE THE WATERSTOP TO ENSURE PROPER PLACEMENT AND ALIGNMENT. APPROVED MATERIALS ARE:

ADEKA CORPORATION; MC-2010M. ADEKA CORPORATION; KM-3030M. ADEKA CORPORATION; P201. ADEKA CORPORATION; KC SERIES.

- 10. APPROVED ADHESIVES ARE 3M-2141 AS MANUFACTURED BY THE 3M COMPANY, OR ADEKA CORPORATION H-1000 ULTRA BOND, OR APPROVED EQUAL.
- 11. USE BUILDING MANUFACTURER SPECIFIED GROUT FOR KEYWAY WITH MINIMUM WATER. USE SILANE/SILOXANE SEALER ON GROUT AND CAULK EXTERIOR PERIMETER JOINT TO STEEL WITH SIKAFLEX 1a OR APPROVED EQUAL.

## WATERSTOP MINIMUM PERFORMANCE REQUIREMENT:

PROPERTY	ASTM STANDARD	RESULTS	
TENSILE STRENGTH (MPa)	D412	0.98	
ELONGATION	D412	550	
HARDNESS (Hs)	D2240	30 DUROMETER TYPE A	
TIME PERIOD TO MAXIMUM ELONGATION IS 35 DAYS.			



REV. DATE BY

LAP	LENGTH SCHEDULE		
BAR	SIZE	LAP	LENGTH
#5		2'-0"	
#4		2	2'-0"

ALASKA RAILROAD CORPORATION **FNGINFFRING SERVICES** 

P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500

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## **HEALY EQUIPMENT BUILDING**

## **FOUNDATION SPECIFICATIONS**

DESIGNED BY: SCALE : AS NOTED ACAD FILE: DRAWN BY: BSI DWG NO. 1 5/22 CR NOTE 11 CHECKED BY: CDR DATE: APRIL 2022 REVISION APPROVED BY: PEF