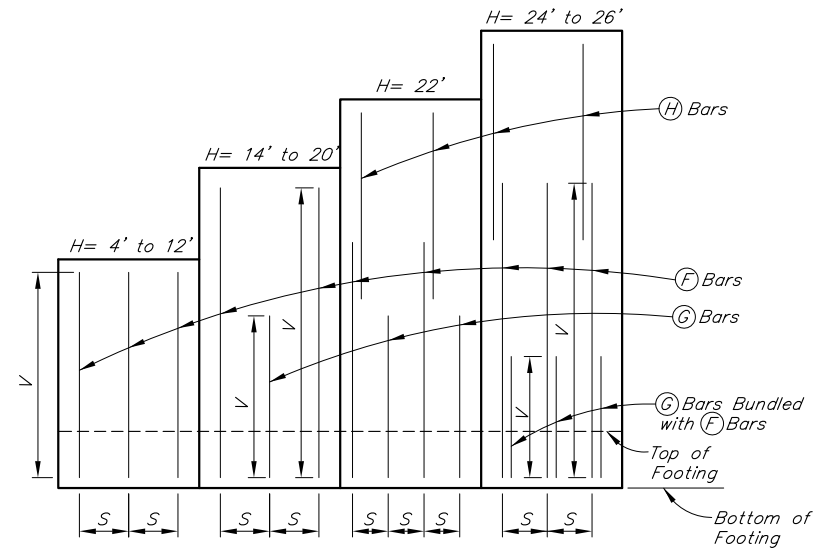
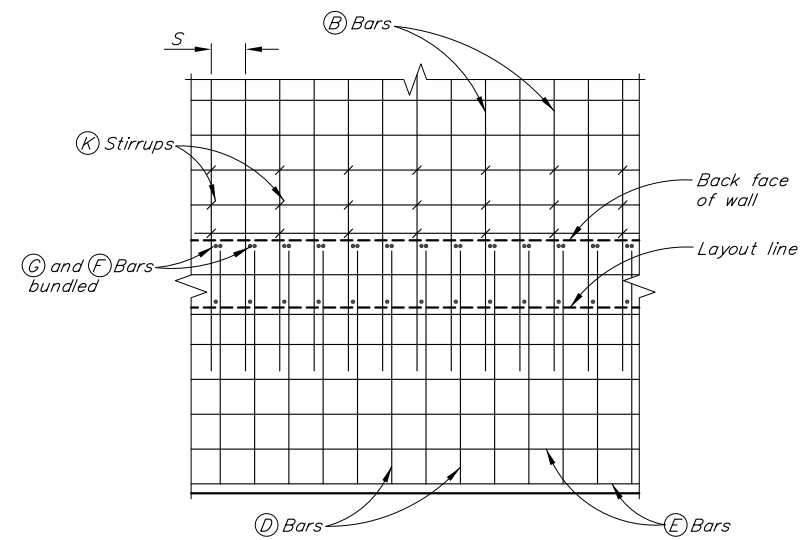


### GENERAL NOTES

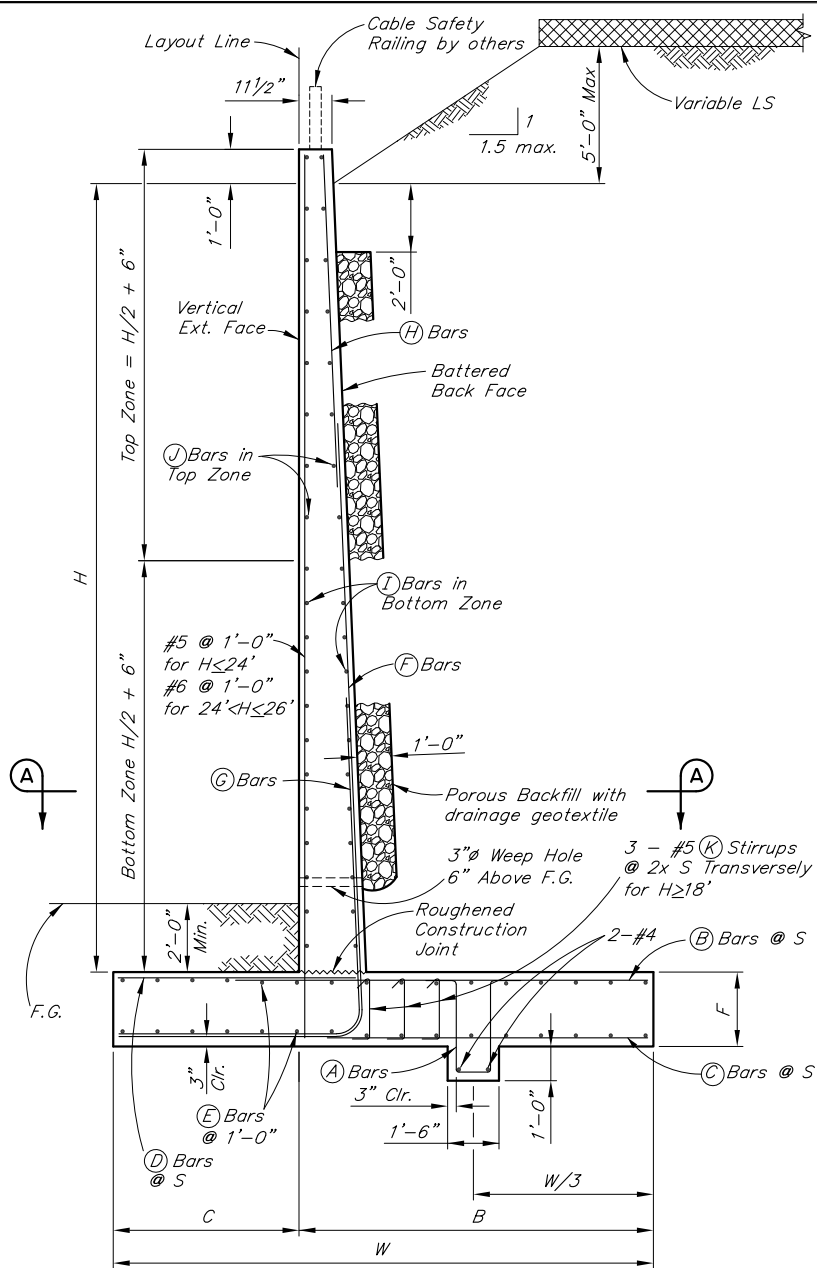
- DESIGN:.....AASHTO LRFD Bridge Design Specifications, 2017 Edition, with latest interim specifications.
- LIVE LOAD SURCHARGE:.....Up to 2' of fill on level ground surface.
- ADDITIONAL DEAD LOAD:.....Up to 2" Non-Structural Concrete on exterior face included.
- SEISMIC PARAMETERS:..... $A_s \leq 0.40g$
- FOUNDATION SOIL:..... $\phi \geq 28^\circ$ ; Special footing design is required where foundation material is incapable of supporting bearing stress listed in the table.
- RETAINED SOIL:..... $32^\circ \leq \phi \leq 36^\circ$   
 $120 \text{ pcf} \leq \gamma \leq 140 \text{ pcf}$
- REINFORCED CONCRETE:.....Class A Concrete,  $f'_c = 4,000 \text{ psi}$
- REINFORCEMENT:.....ASTM A706 or A615, Grade 60,  $F_y = 60,000 \text{ psi}$
- LOAD COMBINATIONS AND LIMIT STATES:.....Service I =  $1.0DC + 1.0EV + 1.0EH + 1.0LS$   
Strength I =  $\alpha DC + \beta EV + \eta EH + 1.75LS$
- Where:
- $\alpha$ :.....1.25 or 0.90, Whichever Controls Design
  - $\beta$ :.....1.35 or 1.00, Whichever Controls Design
  - $\eta$ :.....1.50 or 0.90, Whichever Controls Design
  - DC:.....Dead Load of Structure Components
  - EH:.....Horizontal Earth Fill Pressure
  - EV:.....Vertical Earth Pressure from Earth Fill Weight
  - LS:.....Live Load Surcharge



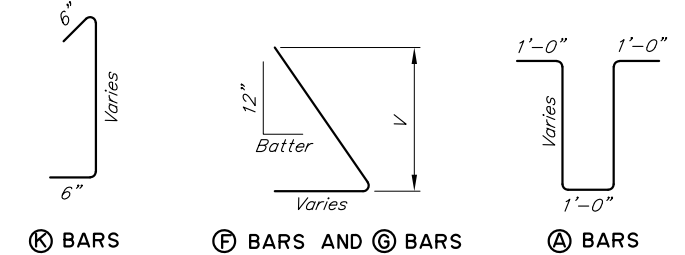
**BACK FACE ELEVATION**  
No Scale



**SECTION A-A**  
No Scale



**TYPICAL SECTION**  
No Scale



See "B-07.10" for details not shown

### ABBREVIATIONS:

- Ser I - Service I limit state
- Str I - Strength I limit state
- B' - Effective footing width (ft)
- qo - Gross uniform bearing stress (ksf)
- F.G. - Finished grade

**TABLE OF DIMENSIONS, REINFORCING STEEL, AND DATA**

DIMENSIONS							A BARS		B BARS		C BARS		D BARS		E BARS		F BARS		G BARS			H BARS		I BARS		J BARS		EFFECTIVE FOOTING WIDTHS AND BEARING PRESSURES		Steel (Lbs/ft) Concrete (CF/ft)		
H	W	F	C	B	Batter	Spacing S	Size	Spacing	Length	Size	Length	Size	Length	Size	Length	Size	Size	V	Length	Size	V	Length	Size	Spacing	Size	Spacing	Ser I B'-qo	Str I B'-qo				
4'-0"	4'-0"	1'-0"	1'-3"	2'-9"	1/2":12"	12"	#4	1'-6"	6'-2"	#4	2'-8"	#4	2'-3"	#4	1'-11"	#4	#4	4'-10"	7'-8"	-	-	-	-	-	#4	1'-6"	#4	1'-6"	2.9-1.2	2.6-1.8	30-10.9	
6'-0"	4'-3"	1'-0"	1'-3"	3'-0"	1/2":12"	12"	#4	1'-6"	6'-2"	#4	2'-10"	#4	2'-5"	#4	1'-11"	#4	#4	6'-10"	9'-9"	-	-	-	-	-	#4	1'-0"	#4	1'-6"	2.5-1.9	2.0-3.2	38-13.5	
8'-0"	5'-0"	1'-2"	1'-9"	3'-3"	1/2":12"	9"	#4	1'-6"	6'-6"	#4	3'-0"	#4	2'-7"	#4	2'-5"	#4	#5	8'-10"	12'-6"	-	-	-	-	-	#4	1'-0"	#4	1'-6"	2.8-2.5	2.1-4.2	57-17.7	
10'-0"	6'-0"	1'-3"	1'-9"	4'-3"	1/2":12"	9"	#4	1'-6"	6'-8"	#4	4'-3"	#4	3'-6"	#4	2'-5"	#4	#6	10'-10"	14'-8"	-	-	-	-	-	#4	1'-0"	#4	1'-0"	3.2-3.1	2.6-5.3	79-22.1	
12'-0"	6'-9"	1'-6"	2'-3"	4'-6"	1/2":12"	9"	#4	1'-6"	7'-2"	#4	4'-5"	#4	3'-8"	#4	2'-11"	#4	#7	12'-10"	17'-6"	-	-	-	-	-	#4	1'-0"	#4	1'-0"	3.5-3.7	2.7-6.5	105-27.7	
14'-0"	8'-3"	1'-8"	2'-6"	5'-9"	5/8":12"	9"	#4	1'-6"	7'-7"	#6	6'-3"	#4	4'-8"	#4	3'-2"	#4	#8	14'-10"	20'-2"	#8	10'-3"	14'-2"	-	-	-	#5	1'-0"	#4	1'-0"	4.7-4.0	3.9-6.5	141-35.5
16'-0"	9'-6"	1'-8"	3'-0"	6'-6"	5/8":12"	6"	#4	1'-6"	7'-6"	#7	7'-3"	#4	5'-4"	#4	3'-8"	#4	#8	16'-10"	22'-10"	#8	9'-6"	14'-0"	-	-	-	#5	1'-0"	#4	1'-0"	5.9-4.0	5.0-6.4	208-41.2
18'-0"	10'-9"	1'-10"	3'-6"	7'-3"	5/8":12"	6"	#4	1'-6"	7'-10"	#7	7'-11"	#4	6'-0"	#4	4'-2"	#5	#9	18'-10"	25'-7"	#9	10'-11"	16'-1"	-	-	-	#5	1'-0"	#4	1'-0"	6.9-4.3	6.0-6.7	278-48.9
20'-0"	12'-6"	2'-0"	3'-9"	8'-9"	5/8":12"	6"	#4	1'-6"	8'-2"	#8	9'-8"	#4	7'-4"	#4	4'-5"	#5	#10	20'-10"	28'-1"	#10	13'-1"	18'-6"	-	-	-	#5	1'-0"	#4	1'-0"	8.8-4.4	7.8-6.7	370-58.2
22'-0"	13'-9"	2'-0"	4'-3"	9'-6"	5/8":12"	6"	#4	1'-6"	8'-2"	#9	11'-1"	#4	8'-0"	#4	4'-11"	#5	#10	20'-6"	28'-4"	#10	15'-1"	21'-2"	#5	16'-10"	#5	1'-0"	#4	1'-0"	10.3-4.5	9.4-6.6	433-64.9	
24'-0"	15'-6"	2'-0"	5'-0"	10'-6"	5/8":12"	6"	#4	1'-6"	8'-2"	#10	12'-11"	#4	8'-11"	#4	5'-8"	#5	#8	21'-3"	29'-11"	#8	12'-6"	19'-5"	#5	18'-2"	#5	1'-0"	#4	1'-0"	12.7-4.3	11.8-6.3	534-72.8	
26'-0"	17'-0"	2'-0"	5'-3"	11'-9"	3/4":12"	6"	#4	1'-6"	8'-2"	2x#9	12'-10"	#4	9'-9"	#4	5'-11"	#5	#8	21'-7"	30'-10"	#8	13'-2"	20'-9"	#6	19'-10"	#6	1'-0"	#5	1'-0"	14.5-4.5	13.6-6.5	664-84.2	

State of Alaska DOT&PF  
ALASKA STANDARD PLAN  
CANTILEVER RETAINING WALL  
TYPE III

Adopted as an Alaska Standard Plan by: *Carolyn Morehouse*  
Carolyn Morehouse, P.E.  
Chief Engineer

Adoption Date: 07/17/2020

Last Code and Stds. Review By: NWM Date: 7/17/20

Next Code and Standards Review date: 07/17/2030

DRAWN BY: MCM CHECKED BY: BAS DESIGNED BY: NWM B-06.10