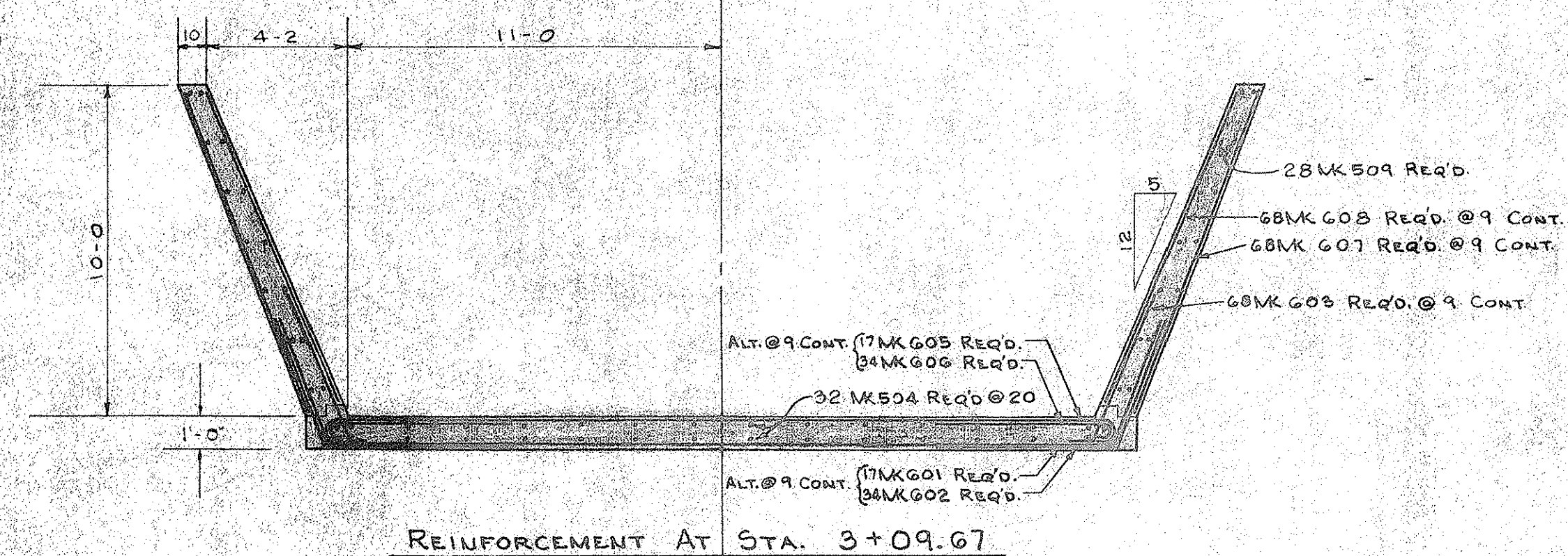
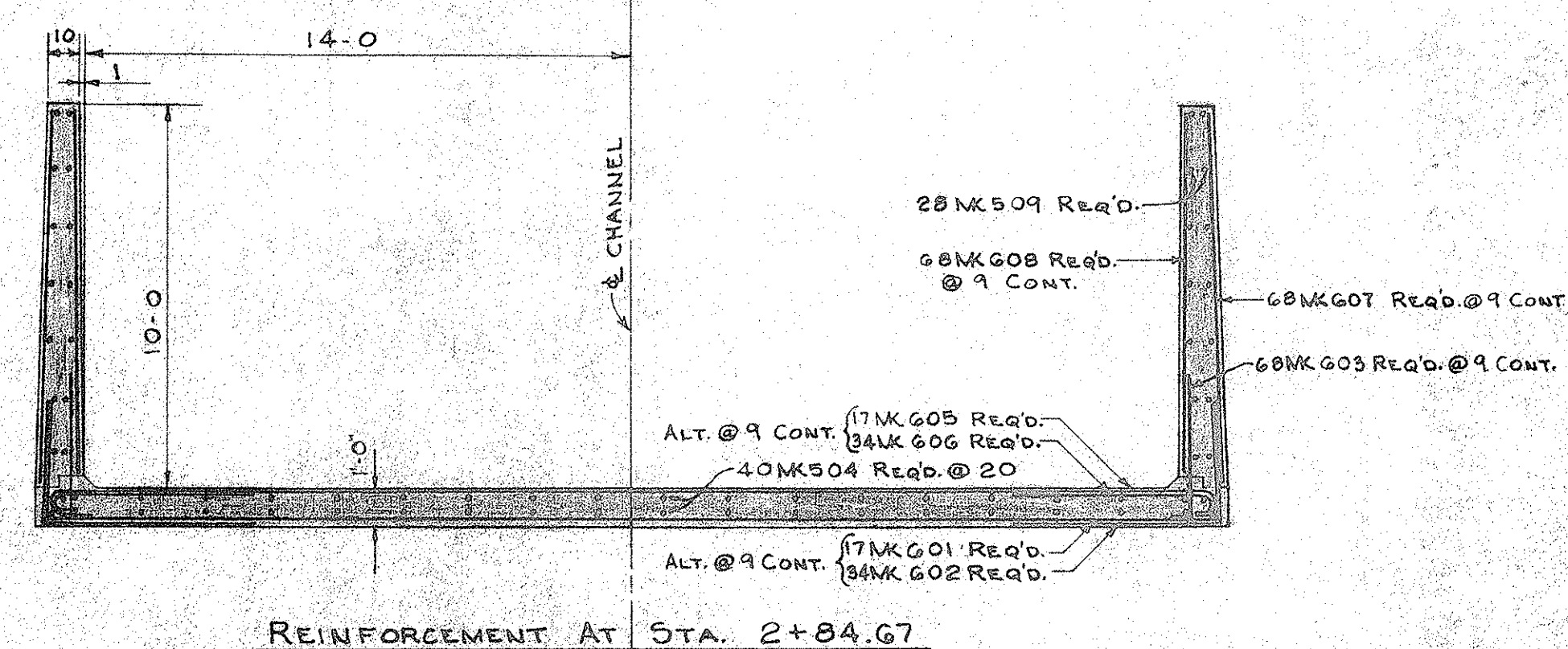
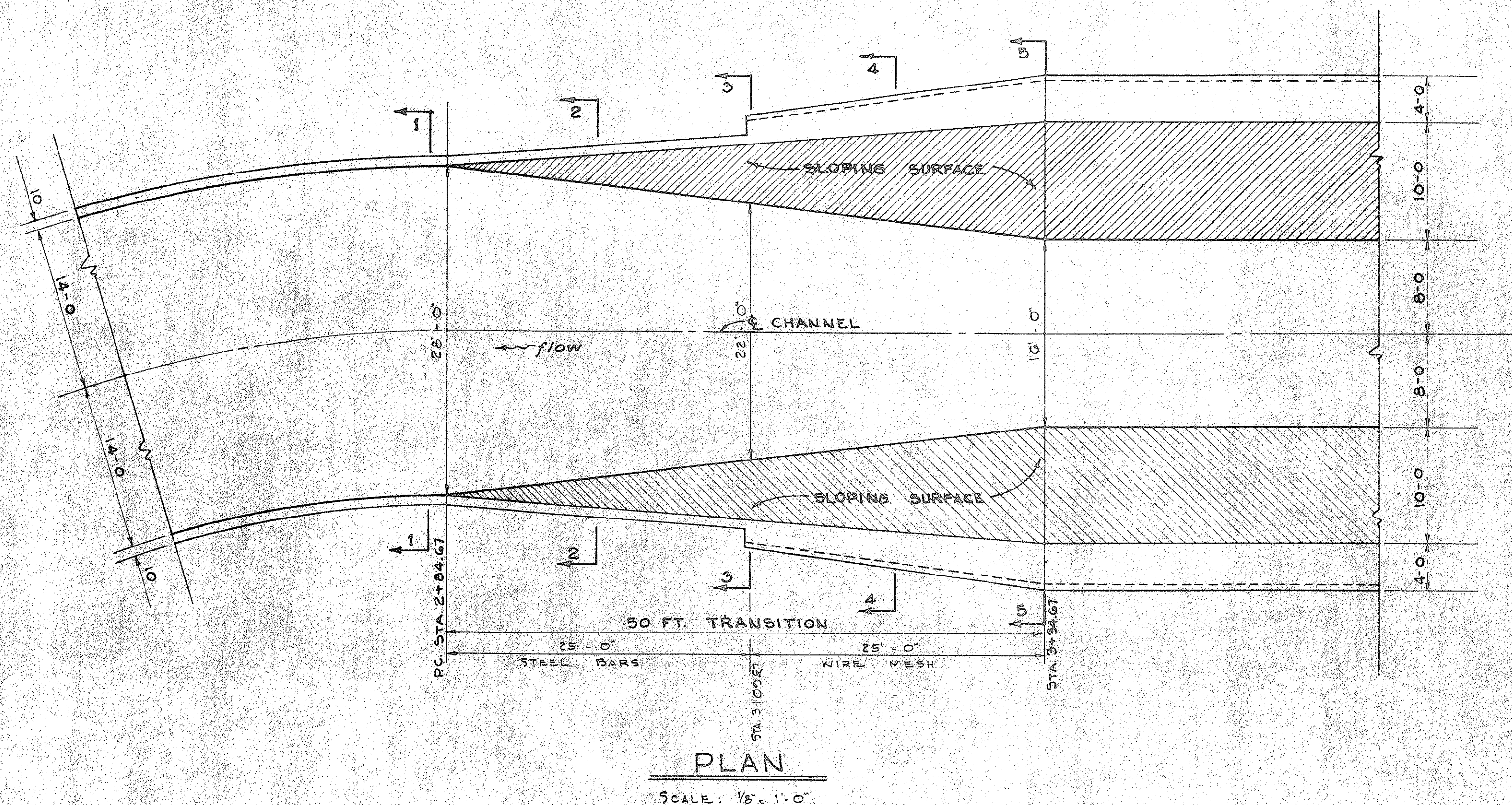
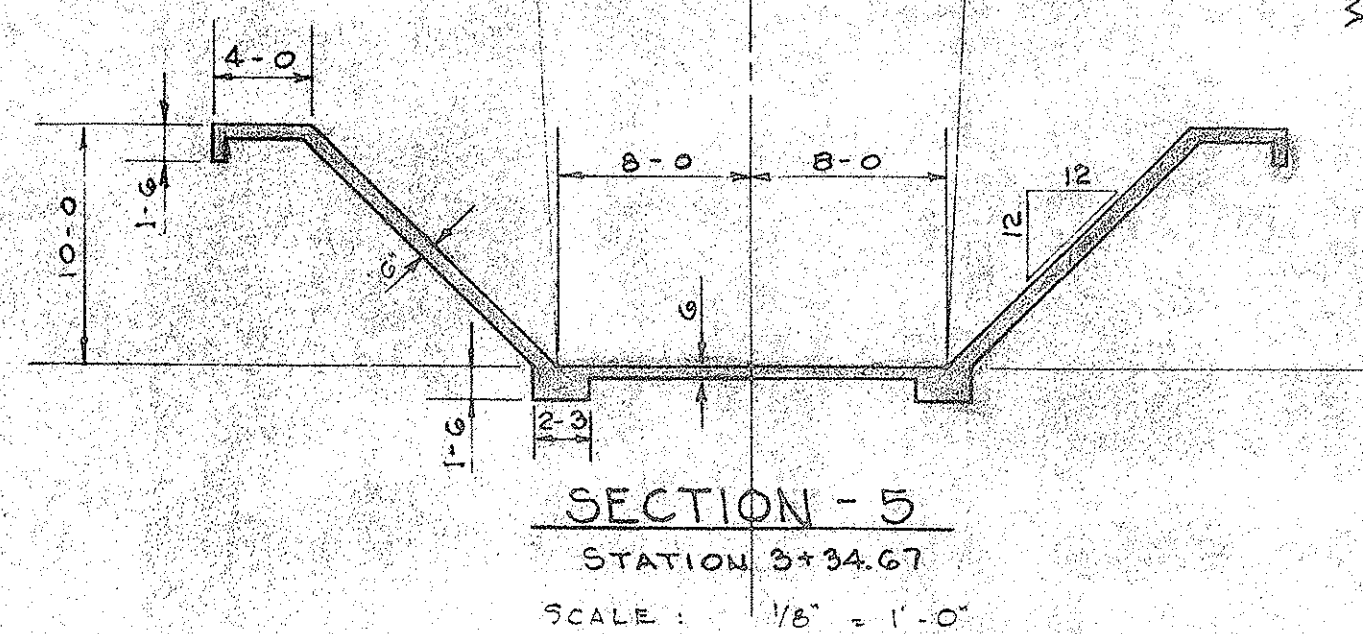
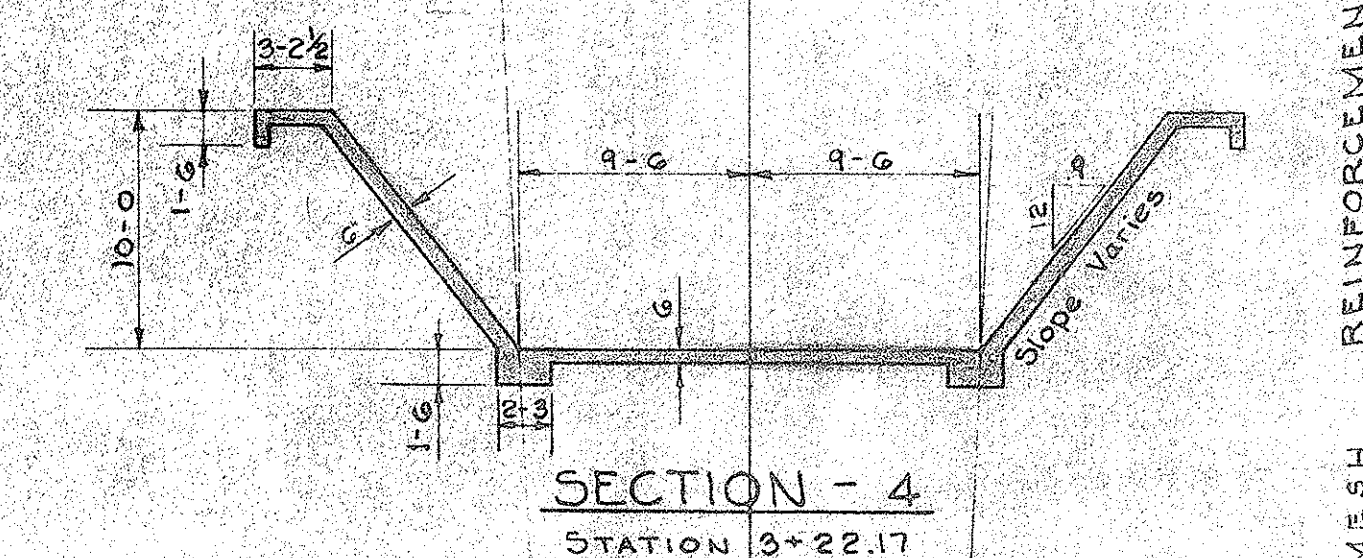
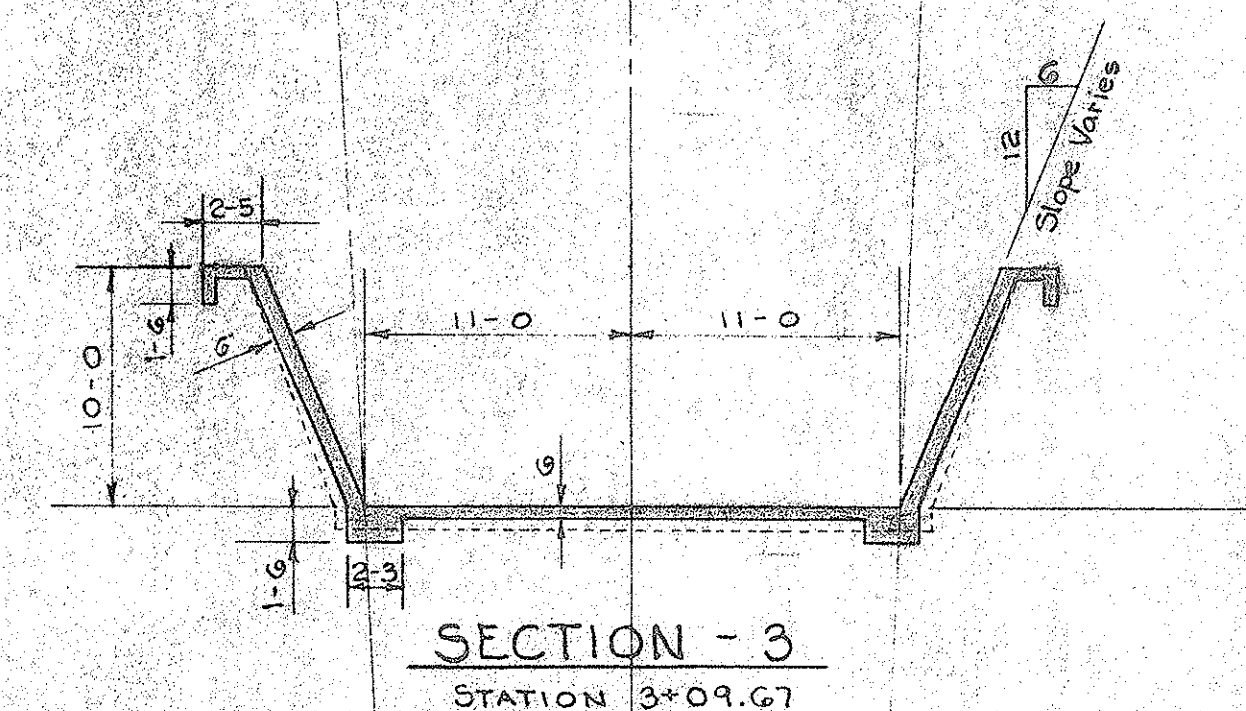
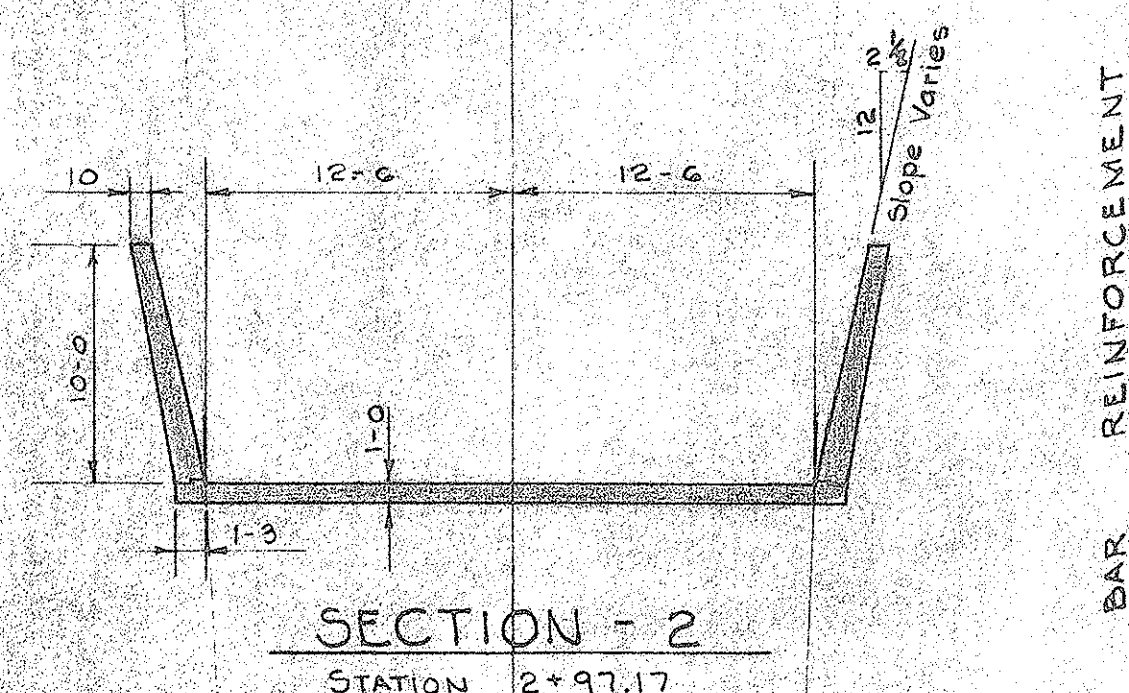
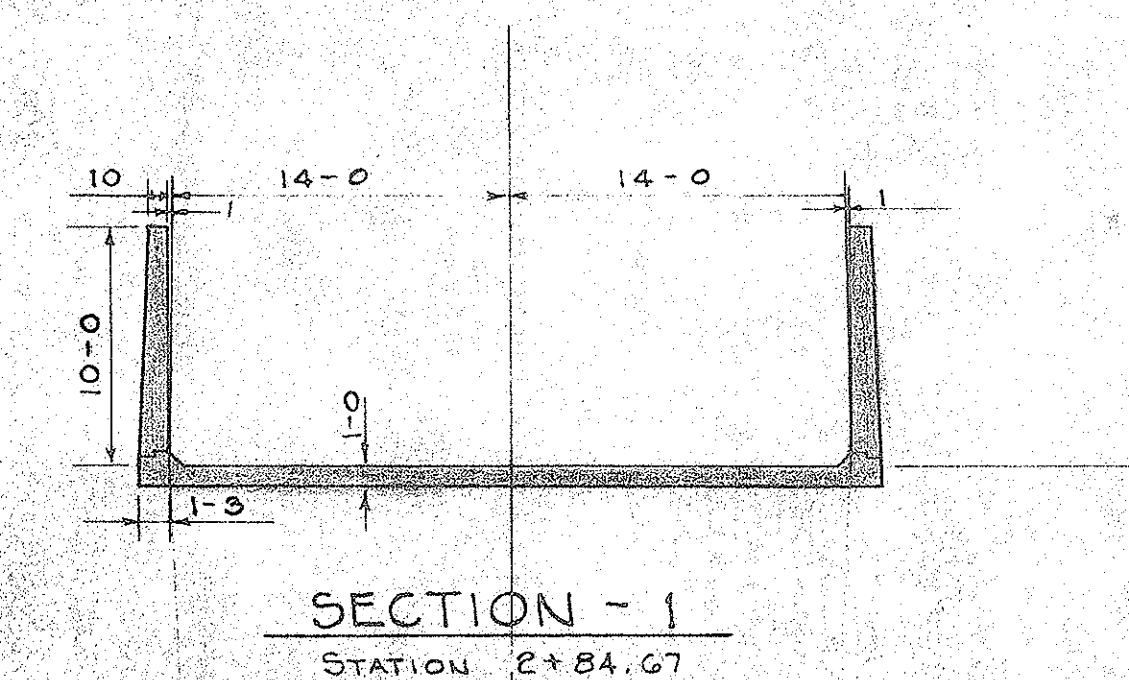




STEEL BARS REINFORCEMENT DETAILS



REINFORCING BAR SCHEDULE

BENDING DIAGRAMS All dimensions out to out	MARK	NO.	SIZE	LENGTH	REMARKS
Slope $\frac{1}{4}$ Varies from 30'-2 to 24'-2 <u>MK G01</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G02</u>	G01	17	$\frac{3}{4}$ "	Varies	From 30-2 @ -4 1/2 to 24-2
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G03</u>	G02	34	$\frac{3}{4}$ "	8-0	
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G04</u>	G03	68	$\frac{3}{4}$ "	4-3	
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G05</u>	G04	40	$\frac{3}{4}$ "	Varies	Straight 28 @ 28-0 + 2 @ 11-0
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G06</u>	G05	17	$\frac{3}{4}$ "	Varies	From 30-2 @ -4 1/2 to 24-2
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G07</u>	G06	34	$\frac{3}{4}$ "	5-8	
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G08</u>	G07	68	$\frac{3}{4}$ "	9-9	Straight
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G09</u>	G08	68	$\frac{3}{4}$ "	9-5	"
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G10</u>	G09	28	$\frac{3}{4}$ "	28-0	"
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G11</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G12</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G13</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G14</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G15</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G16</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G17</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G18</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G19</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G20</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G21</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G22</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G23</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G24</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G25</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G26</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G27</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G28</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G29</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G30</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G31</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G32</u>					
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Slope $\frac{3}{4}$ Varies 5-0 <u>MK G39</u>					
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Slope $\frac{3}{4}$ Varies 5-0 <u>MK G41</u>					
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Slope $\frac{3}{4}$ Varies 5-0 <u>MK G59</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G60</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G61</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G62</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G63</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G64</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G65</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G66</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G67</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G68</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G69</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G70</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G71</u>					
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Slope $\frac{3}{4}$ Varies 5-0 <u>MK G82</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G83</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G84</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G85</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G86</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G87</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G88</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G89</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G90</u>					
Slope $\frac{3}{4}$ Varies 5-0 <u>MK G91</u>					
Slope $\frac{3}{$					

ESTIMATE OF QUANTITIES
FOR 50 FT. TRANSITION

CONCRETE:	79.5 CUBIC YARDS
STEEL:	6,638 POUNDS
WIRE FABRIC:	651 POUNDS, (15% added for lapping)

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU
BUREAU OF PLANS
KALIHI TUNNEL
STREAM DIVERSION
TRANSITION DETAILS
STA. 2+84.67 TO 3+34.67

ENGINEER *SCM* *11.5.57* DATE *JULY 19, 1957*
DRAFTSMAN *LSB* CHECKED BY *SCM:RN*
SOATS *LS* *11.5.57* TRACER *LSB*
APPROVED
Ch. E. Conwatts *Per: Santz*
CHIEF ENGINEER BUREAU ENGINEER

APPROVED
[Signature]
ENGINEER, KALIHI TUNNEL

W. S.	PROFILE	C. B.
OR. SEC.	F. B.	S. B.