

# Reconstruction - Track Removal (Contract No. C-4003)

The as-built drawings, which are contained in these CDs, are scanned from drawings of the existing structure for the convenience of the contractor and as a means to convey to the contractor the available information regarding the existing structure. It is to be understood that no claim is being made as to the accuracy or completeness of the said information and that the State of California or its officers or agents shall not be responsible for the manner in which the contractor interprets and uses this information or for the accuracy, currency or completeness of these scanned as-built drawings. The contractor shall be responsible to obtain, at the contractor's expense, any additional information that the contractor deems necessary for completely and accurately assessing the existing conditions of the structure. The contractor shall not be entitled to any compensation for any claim arising from inaccuracy or insufficiency of these as-built drawings or in anyway related to these drawings.

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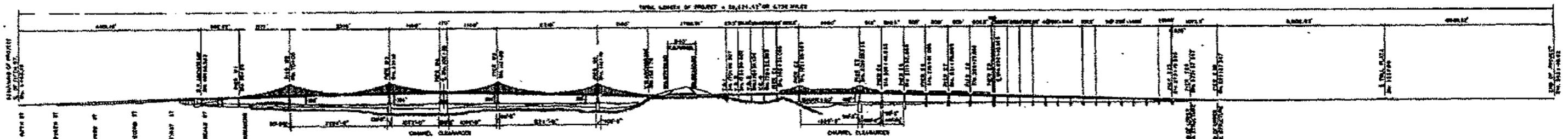
[18. Storage Area Layout and Details](#)

[19. Warehouse Layout and Details](#)

[20. Warehouse Scale Installation](#)

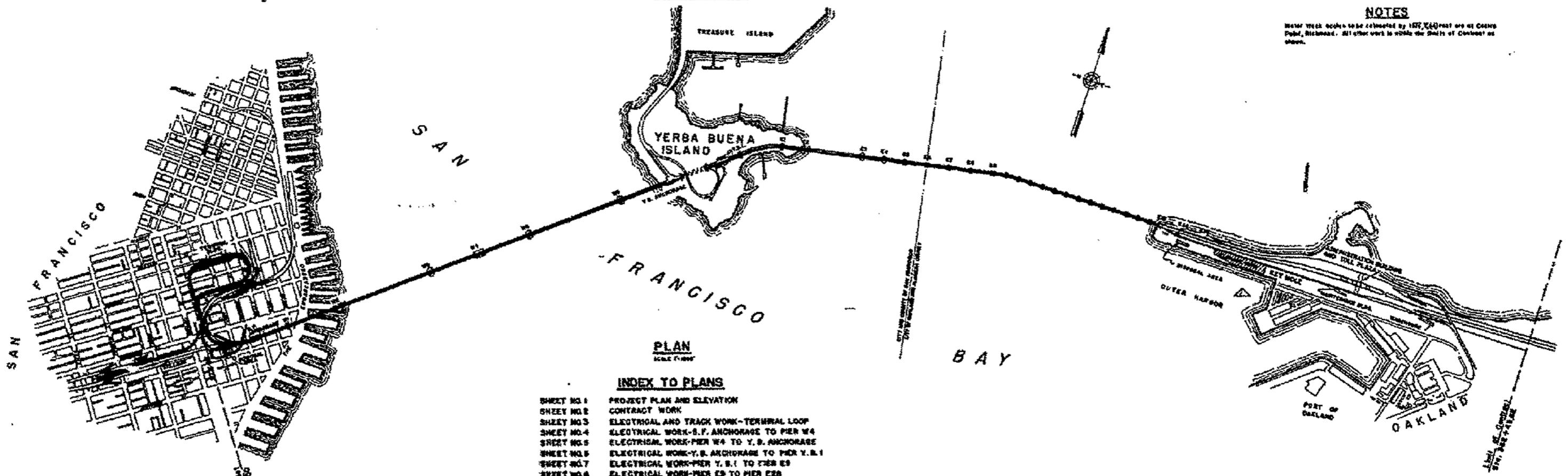
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[22. Temporary Bus Station](#)



**NOTES**

Water level shown is based on 1927, 1928 and 1929 data at Coalinga Point, Richmond. All other work is within the limits of contract as shown.



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- SHEET NO. 20 WAREHOUSE SCALE INSTALLATION
- SHEET NO. 21 TRACK SCALE INSTALLATION

APPROVAL RECOMMENDED BY *M. P. ...* SUPERVISOR OF PUBLIC WORKS

DATE	BY	DESCRIPTION



STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO-OAKLAND BAY BRIDGE  
 RECONSTRUCTION  
 TRACK REMOVAL**

**PROJECT PLAN AND ELEVATION**

SCALE: AS SHOWN	BRIDGE	33-23 34-00 35-00	SHEET NO. 1	DRAWING G-1003-1
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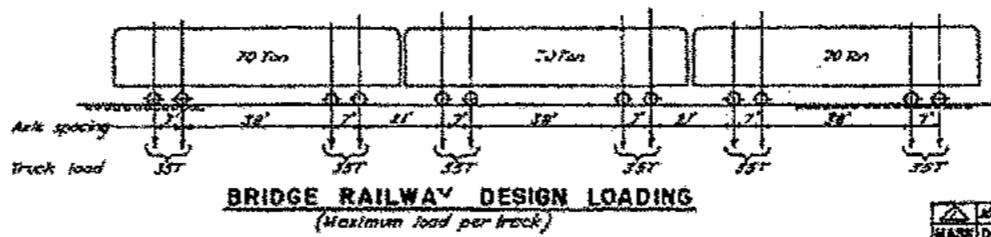
MARK	DATE	DESCRIPTION	BY	CHK

NO.	BID ITEM	UNIT	QUANTITY	DESCRIPTION	WORK TO BE DONE	WHERE STORED	REFERENCE SHEET
1	Concrete removal	Cu Yd	28.01	Includes concrete of S.F. Anchorage, warehouse and of other locations as required.	Remove and dispose of broken concrete in designated areas.	Yard & Warehouse	1, 11, 15, 18, 20
2	Structure excavation	Cu Yd	208.38	Includes excavation for scale pits and of other locations as required.	Excavate to lines and grades as shown.		20, 21
3	Structure backfill	Cu Yd	90.09	Includes backfill for scale pits and of other locations as required.	Backfill to lines and grades as shown.		20, 21
4	Prepare class B subgrade	Sq Yd	40,909	Preparation of subgrade of terminal loop and for access roads and storage area.	Shape and roll subgrade. No edging required.		11, 18
5	Timber structures	MBM	107.48	Timber storage facilities, including, but not limited to, racks, pallets, boxes, spacers and bollards.	Furnish, fabricate and place storage facilities. Stockpiled timber and hardware may be used.	Yard & Warehouse	18, 19, 20
6	Lightweight concrete with type II cement	Cu Yd	202.71	16 (minimum) at 28 days - 3000#/cu ft; W (maximum) at 28 days - 110#/cu ft	Place and finish concrete as shown.		11, 20, 21
7	Bar reinforcing steel	Lb	12,420.32	Intermediate grade.	Place bar reinforcing steel as shown.		20, 21
8	Remove and reinstall motor truck scales.	LS		2-50 ton capacity 60"x10" platform motor truck scales; Forbanks, Morse & Co. Serial # F-990-123 and # F-990-154.	Remove, transport and reinstall as shown. Stockpiled items may be used.		19, 20, 21
9	Remove and store insulated cable.	Lb	160,023	All sizes and types of insulated cables not indicated to remain in place.	Remove, segregate, reel and store.	Warehouse	11, 12, 13, 14, 15, 17, 19
10	Remove and store bare cable.	Lb	274,638	All sizes and types of bare wire and cables not indicated to remain in place.	Remove, segregate, reel and store.	Warehouse	11, 12, 13, 14, 15, 17, 19
11	Remove and store relay and signal transformer assemblies.	Each	155	Weatherproof assemblies of railway signal system relays, transformers and allied equipment.	Disconnect all cables, remove unit intact and store.	Yard & Warehouse	12, 13, 15, 18, 19
12	Remove and store impedance bonding transformers.	Each	512	Railway impedance bonding transformers.	Disconnect all cables, remove unit intact and store.	Warehouse	12, 13, 19
13	Remove and store wayside signals.	Each	89	All sizes and types of wayside signals.	Disconnect all cables, remove unit intact and store.	Warehouse	11, 12, 19
14	Remove and store catenary insulator assemblies.	Each	1,224	All types of catenary insulator assemblies.	Disconnect, remove, disassemble units, segregate and store.	Warehouse	11, 14, 18, 19
15	Remove and store catenary pullover assemblies.	Each	301	All types of pullover assemblies.	Disconnect, remove unit intact and store.	Warehouse	14, 18, 19
16	Remove and store catenary hangers.	Lb	16,050	Catenary hanger rods, links, cable clips and appurtenant hardware.	Remove, segregate and store.	Warehouse	14, 18, 19
17	Remove and store rail switch power mechanisms.	Each	36	Electric power mechanisms for operation of rail switch points.	Disconnect, remove unit intact and store.	Yard	17, 18
18	Remove and store miscellaneous electrical facilities.	Lb	59,407	Miscellaneous electrical relays, switches, transformers, rectifiers and other facilities in buildings, and tie stations; and all electrical materials and equipment not included in other bid items and not indicated to remain in place.	Disconnect, remove, segregate and store.	Warehouse	13, 14, 15, 17, 19
19	Remove and store 4" pipe railing.	Lb	441,485	4" pipe railing and posts including flanges, tees, couplings, bolts and other fittings.	Remove, disassemble, segregate and store.	Yard	12, 13, 18
20	Remove and store contact rail insulator assemblies.	Each	2,176	Contact rail porcelain insulators including fittings and fastenings.	Remove, disassemble units, segregate and store.	Warehouse	16, 17, 19
21	Remove and store contact rail anchor assemblies.	Each	74	Contact rail anchor assemblies including wood insulators, clamps and fastenings.	Remove and store.	Yard	16, 18
22	Remove and store rails.	Lb	2,870,990	All running, guard and contact rails, switch points and contact rail end approaches.	Remove, free of all attachments, segregate and store.	Yard	11, 16, 17, 18
23	Remove and store frogs.	Each	40	All sizes and types of frogs including component parts and appurtenances.	Remove, segregate and store units intact.	Yard	17, 18
24	Remove and store cross ties.	Each	6,980	All lengths of timber cross ties except stub ties.	Remove, free of metal, segregate and store.	Yard	15, 17, 18
25	Remove and store stub ties.	Each	5,196	Stub ties in terminal building.	Remove, free of metal, segregate and store.	Yard	14, 18
26	Remove and store lumber.	MBM	58.99	All lumber except cross ties and stub ties.	Remove, free of metal, segregate and store.	Yard	11, 12, 13, 16, 17, 18
27	Remove and store rail fastenings.	Lb	1080,235	Joint bars; tie, gage and slide plates; rail braces, anchors and clamps; end, heel and filler blocks; wedges, clips, foot guards, switch rods, brackets, straps and stems; track spikes; rail bolts with nuts, lock nuts and washers.	Remove, segregate and store.	Yard & Warehouse	11, 15, 16, 17, 19
28	Remove and store miscellaneous iron and steel.	Lb	365,822	Catenary bridge structures and all iron, steel, hardware and other metal not included in other bid items.	Remove, segregate and store.	Yard & Warehouse	11, 14, 15, 16, 17, 18

Note: Location and quantities of contact work are shown on sheets 3 to 10, inclusive.

APPROVAL RECOMMENDED BY: *W. P. ...* ENGINEER  
DATE: *...*

CHECKED BY: *...*  
DATE: *...*



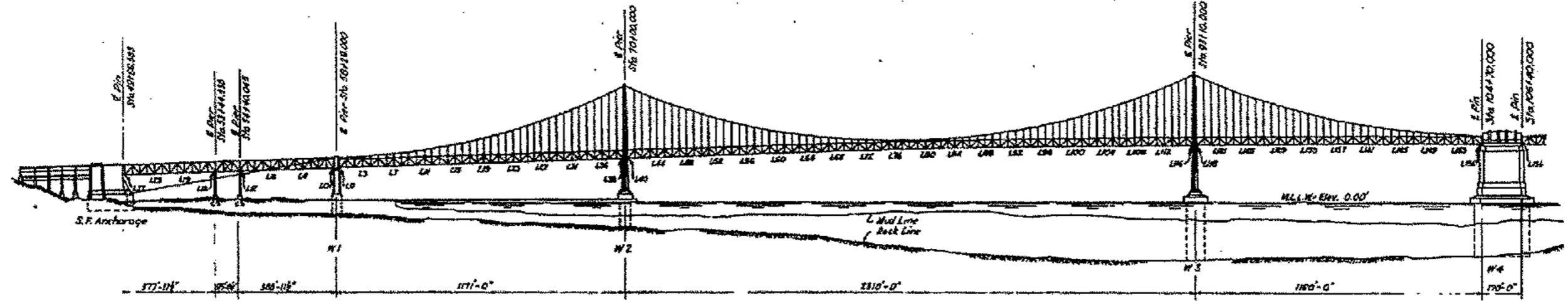
SAN FRANCISCO-OAKLAND BAY BRIDGE  
RECONSTRUCTION  
TRACK REMOVAL  
CONTRACT WORK

33-23  
34-01  
34-04

DRAWING NO. 4003-21

DATE	DESCRIPTION	BY	CHK
	REVISION		

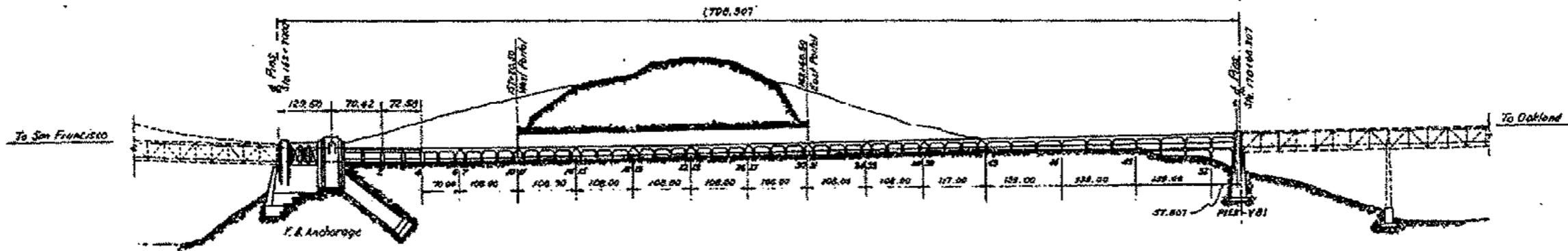




TABULATION OF QUANTITIES

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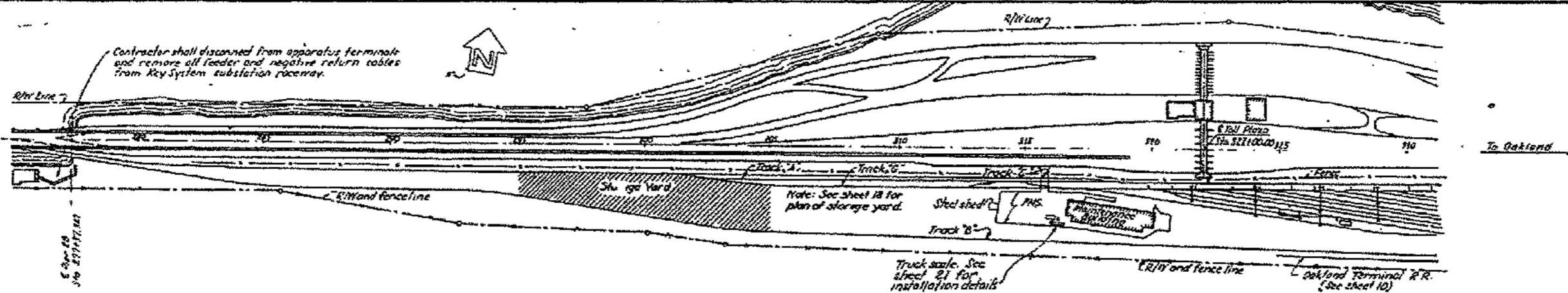


TABULATION OF QUANTITIES

NO.	ITEM	UNIT	Y.B. Anchorage		2		4		6/7		10/11		11/5		11/2		20/23		20/27		30/31		30/35		30/39		43		45		49		51		Y.B.1		TOTAL THIS SHEET	CUMULATIVE TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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1	Concrete Removal	C.Y.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24.61																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
2	Structure Excavation	C.Y.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
3	Structure Backfill	C.Y.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
4	Prepara Chas. & Subgrade	S.Y.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25.100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
5	Timber Structures	MBM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
6	Lightweight Concrete	C.Y.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125.41																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
7	Bar Reinforcing Steel	Lb.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
8	Metal Truss Joists	L.S.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
9	Insulated Cable	Lb.	6986	482	38	375	470	621	713	887	1023	1,339	1852	2422	2,500	2,619	1418	631	344	22,826	122,158																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
10	Barb Cable	Lb.	171	126	128	136	141	141	181	257	339	435	566	741	854	954	1044	1133	1222	1311	1400	1489	1578	1667	1756	1845	1934	2023	2112	2201	2290	2379	2468	2557	2646	2735	2824	2913	3002	3091	3180	3269	3358	3447	3536	3625	3714	3803	3892	3981	4070	4159	4248	4337	4426	4515	4604	4693	4782	4871	4960	5049	5138	5227	5316	5405	5494	5583	5672	5761	5850	5939	6028	6117	6206	6295	6384	6473	6562	6651	6740	6829	6918	7007	7096	7185	7274	7363	7452	7541	7630	7719	7808	7897	7986	8075	8164	8253	8342	8431	8520	8609	8698	8787	8876	8965	9054	9143	9232	9321	9410	9499	9588	9677	9766	9855	9944	10033	10122	10211	10300	10389	10478	10567	10656	10745	10834	10923	11012	11101	11190	11279	11368	11457	11546	11635	11724	11813	11902	11991	12080	12169	12258	12347	12436	12525	12614	12703	12792	12881	12970	13059	13148	13237	13326	13415	13504	13593	13682	13771	13860	13949	14038	14127	14216	14305	14394	14483	14572	14661	14750	14839	14928	15017	15106	15195	15284	15373	15462	15551	15640	15729	15818	15907	15996	16085	16174	16263	16352	16441	16530	16619	16708	16797	16886	16975	17064	17153	17242	17331	17420	17509	17598	17687	17776	17865	17954	18043	18132	18221	18310	18399	18488	18577	18666	18755	18844	18933	19022	19111	19200	19289	19378	19467	19556	19645	19734	19823	19912	20001	20090	20179	20268	20357	20446	20535	20624	20713	20802	20891	20980	21069	21158	21247	21336	21425	21514	21603	21692	21781	21870	21959	22048	22137	22226	22315	22404	22493	22582	22671	22760	22849	22938	23027	23116	23205	23294	23383	23472	23561	23650	23739	23828	23917	24006	24095	24184	24273	24362	24451	24540	24629	24718	24807	24896	24985	25074	25163	25252	25341	25430	25519	25608	25697	25786	25875	25964	26053	26142	26231	26320	26409	26498	26587	26676	26765	26854	26943	27032	27121	27210	27299	27388	27477	27566	27655	27744	27833	27922	28011	28100	28189	28278	28367	28456	28545	28634	28723	28812	28901	28990	29079	29168	29257	29346	29435	29524	29613	29702	29791	29880	29969	30058	30147	30236	30325	30414	30503	30592	30681	30770	30859	30948	31037	31126	31215	31304	31393	31482	31571	31660	31749	31838	31927	32016	32105	32194	32283	32372	32461	32550	32639	32728	32817	32906	32995	33084	33173	33262	33351	33440	33529	33618	33707	33796	33885	33974	34063	34152	34241	34330	34419	34508	34597	34686	34775	34864	34953	35042	35131	35220	35309	35398	35487	35576	35665	35754	35843	35932	36021	36110	36199	36288	36377	36466	36555	36644	36733	36822	36911	37000	37089	37178	37267	37356	37445	37534	37623	37712	37801	37890	37979	38068	38157	38246	38335	38424	38513	38602	38691	38780	38869	38958	39047	39136	39225	39314	39403	39492	39581	39670	39759	39848	39937	40026	40115	40204	40293	40382	40471	40560	40649	40738	40827	40916	41005	41094	41183	41272	41361	41450	41539	41628	41717	41806	41895	41984	42073	42162	42251	42340	42429	42518	42607	42696	42785	42874	42963	43052	43141	43230	43319	43408	43497	43586	43675	43764	43853	43942	44031	44120	44209	44298	44387	44476	44565	44654	44743	44832	44921	45010	45099	45188	45277	45366	45455	45544	45633	45722	45811	45900	45989	46078	46167	46256	46345	46434	46523	46612	46701	46790	46879	46968	47057	47146	47235	47324	47413	47502	47591	47680	47769	47858	47947	48036	48125	48214	48303	48392	48481	48570	48659	48748	48837	48926	49015	49104	49193	49282	49371	49460	49549	49638	49727	49816	49905	49994	50083	50172	50261	50350	50439	50528	50617	50706	50795	50884	50973	51062	51151	51240	51329	51418	51507	51596	51685	51774	51863	51952	52041	52130	52219	52308	52397	52486	52575	52664	52753	52842	52931	53020	53109	53198	53287	53376	53465	53554	53643	53732	53821	53910	54000	54089	54178	54267	54356	54445	54534	54623	54712	54801	54890	54979	55068	55157	55246	55335	55424	55513	55602	55691	55780	55869	55958	56047	56136	56225	56314	56403	56492	56581	56670	56759	56848	56937	57026	57115	57204	57293	57382	57471	57560	57649	57738	57827	57916	58005	58094	58183	58272	58361	58450	58539	58628	58717	58806	58895	58984	59073	59162	59251	59340	59429	59518	59607	59696	59785	59874	59963	60052	60141	60230	60319	60408	60497	60586	60675	60764	60853	60942	61031	61120	61209	61298	61387	61476	61565	61654	61743	61832	61921	62010	62099	62188	62277	62366	62455	62544	62633	62722	62811	62900	62989	63078	63167	63256	63345	63434	63523	63612	63701	63790	63879	63968	64057	64146	64235	64324	64413	64502	64591	64680	64769	64858	64947	65036	65125	65214	65303	65392	65481	65570	65659	65748	65837	65926	66015	66104	66193	66282	66371	66460	66549	66638	66727	66816	66905	66994	67083	67172	67261	67350	67439	67528	67617	67706	67795	67884	67973	68062	68151	68240	68329	68418	68507	68596	68685	68774	68863	68952	69041	69130	69219	69308	69397	69486	69575	69664







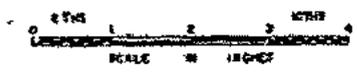
TABULATION OF QUANTITIES

STATIONS	ETH 57347	280	282	284	286	288	290	292	294	296	298	300	302	304	306	308	310	312	314	316	318	320	322	324	326	328	330	TOTAL	PROPOSED		
LENGTH OF SECTION	265.65	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00		
1. Concrete Removal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24.67	
2. Structure Excavation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25.38	
3. Structure Backfill	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85.01	
4. Prepare Class B Subgrade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.89	
5. Timber Structures	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75.71	
6. Lightweight Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89.29	
7. Bar Reinforcing Steel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11,561.35	
8. Motor Truck Scales	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.5	
9. Insulated Cable	1,219	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	18,357
10. Wire Cable	2,252	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	3,827	93,870
11. Relay Signal Transformer Assemblies	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	44	
12. Impedance Bonding Transformers	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	88
13. Weighing Scales	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
14. Colony Insulator Assemblies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	216
15. Colony Puller Assemblies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
16. Colony Hangers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4371
17. Rail Switch Power Mechanisms	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
18. Miscellaneous Electrical Facilities	2,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,600	
19. 8" Diameter Pipe Railing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	181,665	
20. Contact Rail Insulator Assemblies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,116	
21. Contact Rail Anchor Assemblies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	
22. Rails	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,876,990	
23. Fuses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	
24. Cross Ties	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,380	
25. Stud Ties	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,198	
26. Lumber	20	0	20	0	20	0	20	0	20	0	20	0	20	0	20	0	20	0	20	0	20	0	20	0	20	0	20	0	20	0	32,99
27. Rail Fastenings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,080,255	
28. Miscellaneous Iron and Steel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,000	

**NOTE**  
The overhead 12 KV service to maintenance and warehouse buildings is to remain and not be interrupted.

APPROVAL RECOMMENDED BY: [Signature] SUPERVISOR, ELECTRICAL DIVISION

DATE: 1/22/88  
BY: [Signature]  
CHECKED BY: [Signature]



CITY OF OAKLAND  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF SAN FRANCISCO BAY TOLLS, OAKLAND

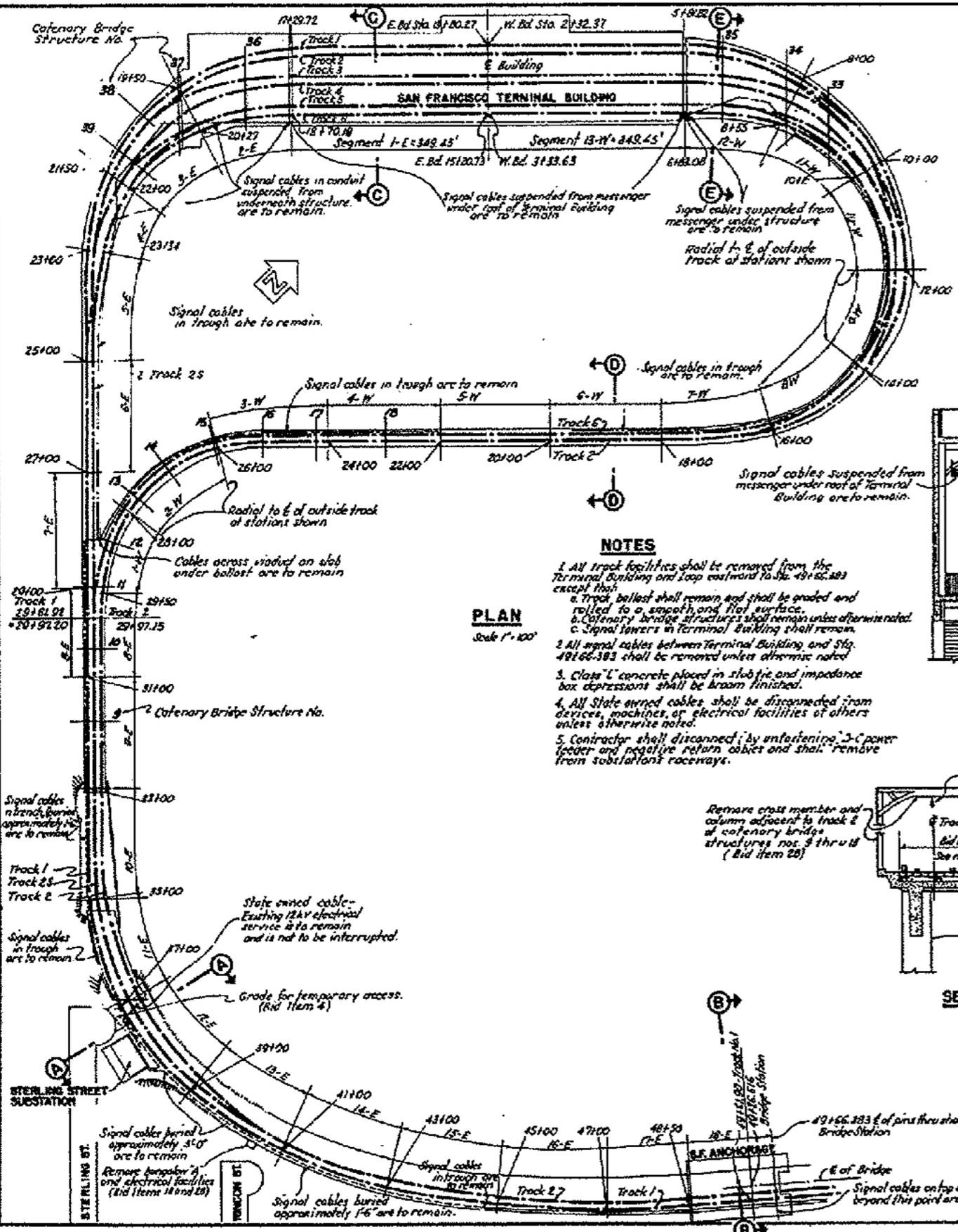
**SAN FRANCISCO-OAKLAND BAY BRIDGE  
RECONSTRUCTION  
TRACK REMOVAL**

**ELECTRICAL WORK - PIER E 28 TO STA. 330+00.00**

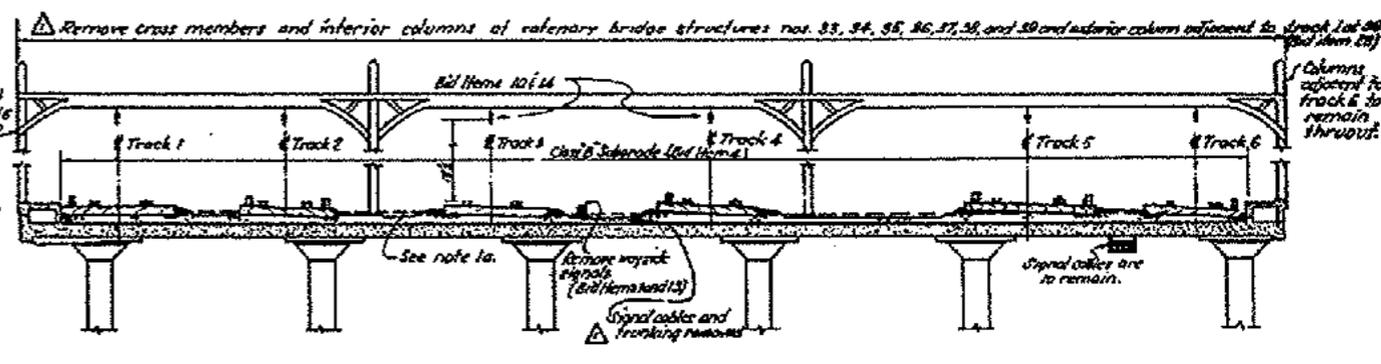
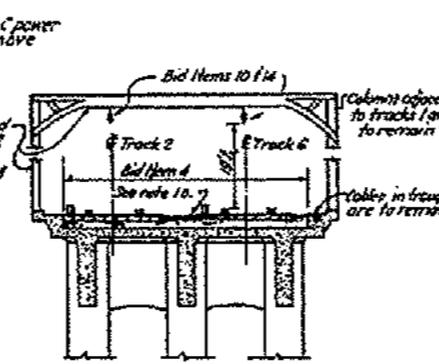
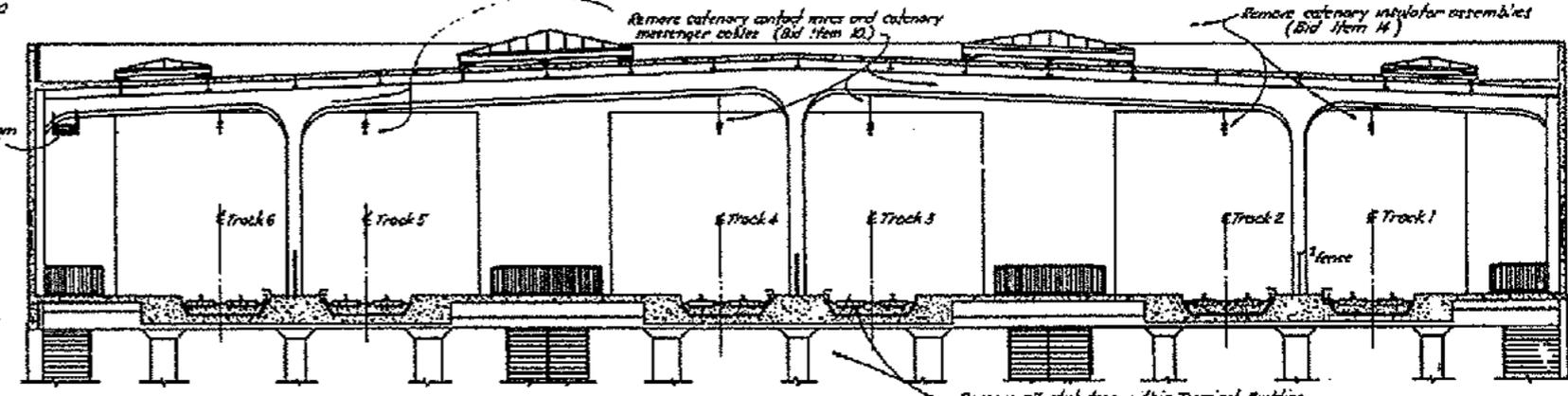
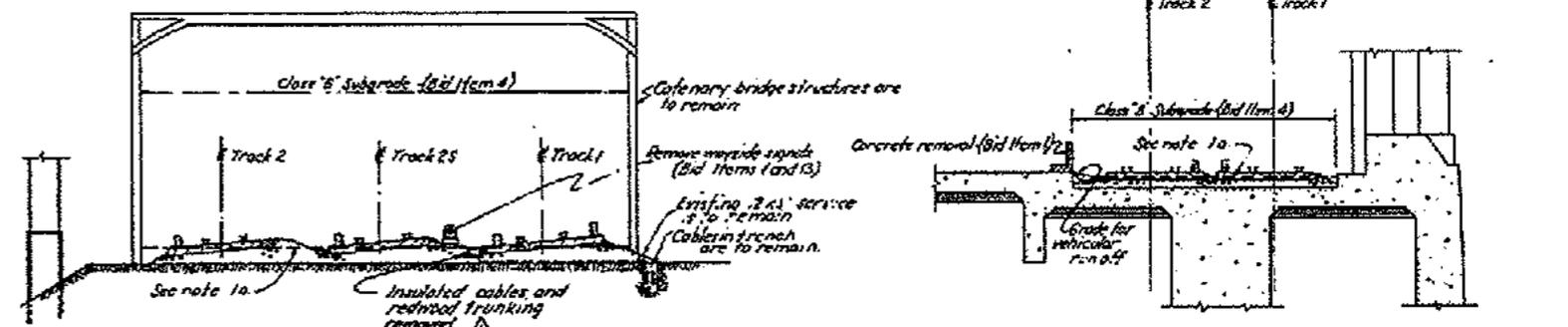
SCALE 1" = 200'  
BRIDGE 14-04  
SHEET NO. 8  
DRAWING - 4003-B

NO.	DATE	DESCRIPTION	BY	CHK.
1	1-22-88	As built revisions	[Signature]	[Signature]





- NOTES**
- All track facilities shall be removed from the Terminal Building and loop eastward to Sta. 49150.00 except that:
    - Track ballast shall remain and shall be graded and rolled to a smooth and flat surface.
    - Catenary bridge structures shall remain unless otherwise noted.
    - Signal towers in Terminal Building shall remain.
  - All signal cables between Terminal Building and Sta. 49150.00 shall be removed unless otherwise noted.
  - Class "C" concrete placed in slab/tie and impedance box depressions shall be broom finished.
  - All State owned cables shall be disconnected from devices, machines, or electrical facilities of others unless otherwise noted.
  - Contractor shall disconnect by unfastening 2-C power feeder and negative return cables and shall remove from substations raceways.



**TYPICAL SECTIONS**  
Scale 1/2" = 1'-0"



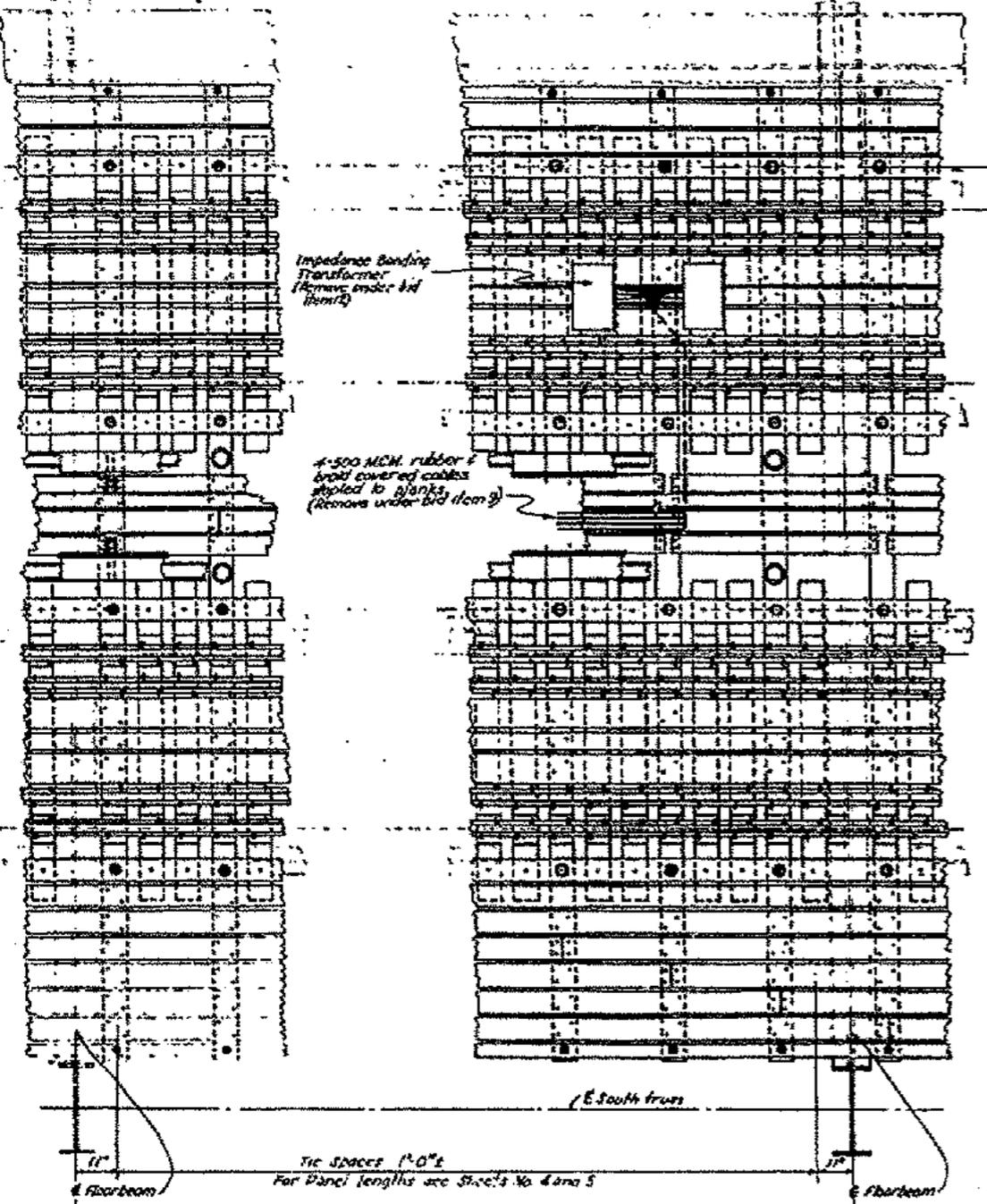
APPROVAL RECOMMENDED BY: *[Signature]* LICENSURE 7187

NO.	DATE	BY	DESCRIPTION
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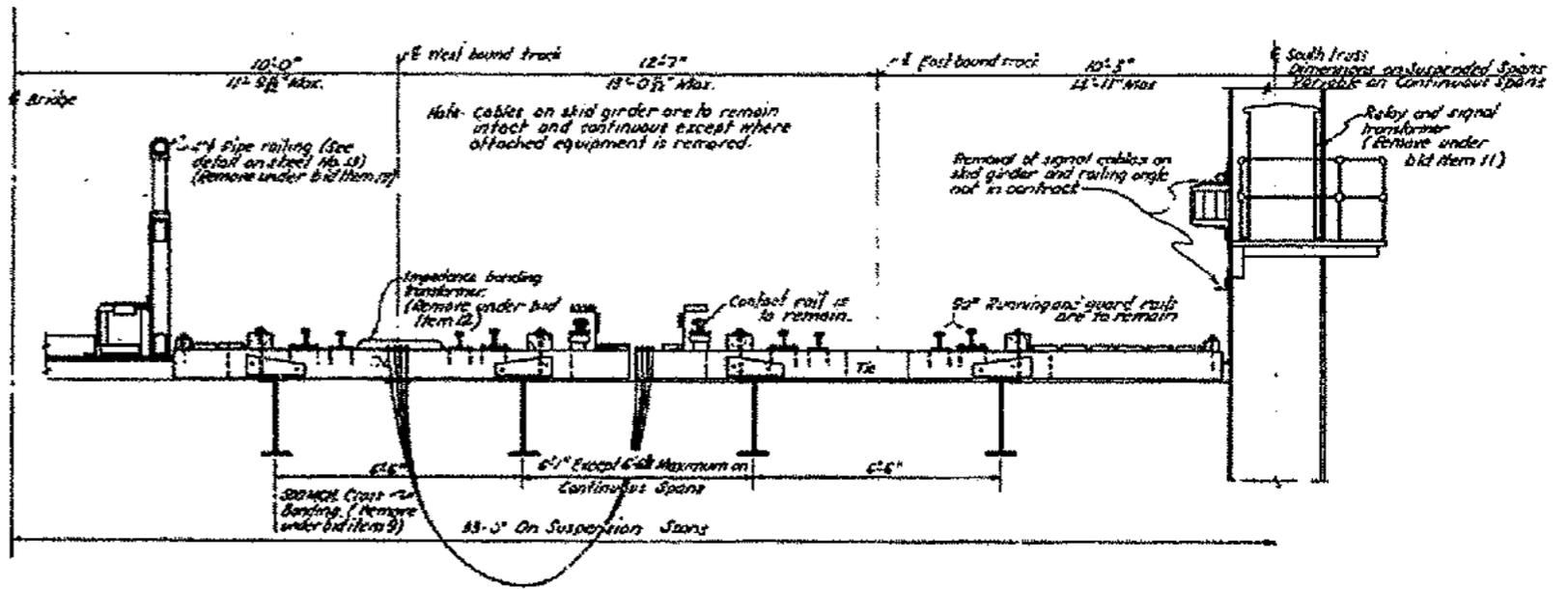
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS BUREAU OF SAN FRANCISCO BAY TOLL CROSSINGS			
<b>SAN FRANCISCO-OAKLAND BAY BRIDGE RECONSTRUCTION TRACK REMOVAL</b>			
<b>PLAN AND SECTIONS-TERMINAL LOOP</b>			
SCALE AS SHOWN	BRIDGE 34-04	SHEET NO. 11	DRAWING C-4003-11
DATE	DESCRIPTION	BY	CHK
12/20/88	As built revisions	LLS	YPL
	REVISION		

APPROVAL RECOMMENDED BY *H. J. Baskin*  
LICENSE 7187

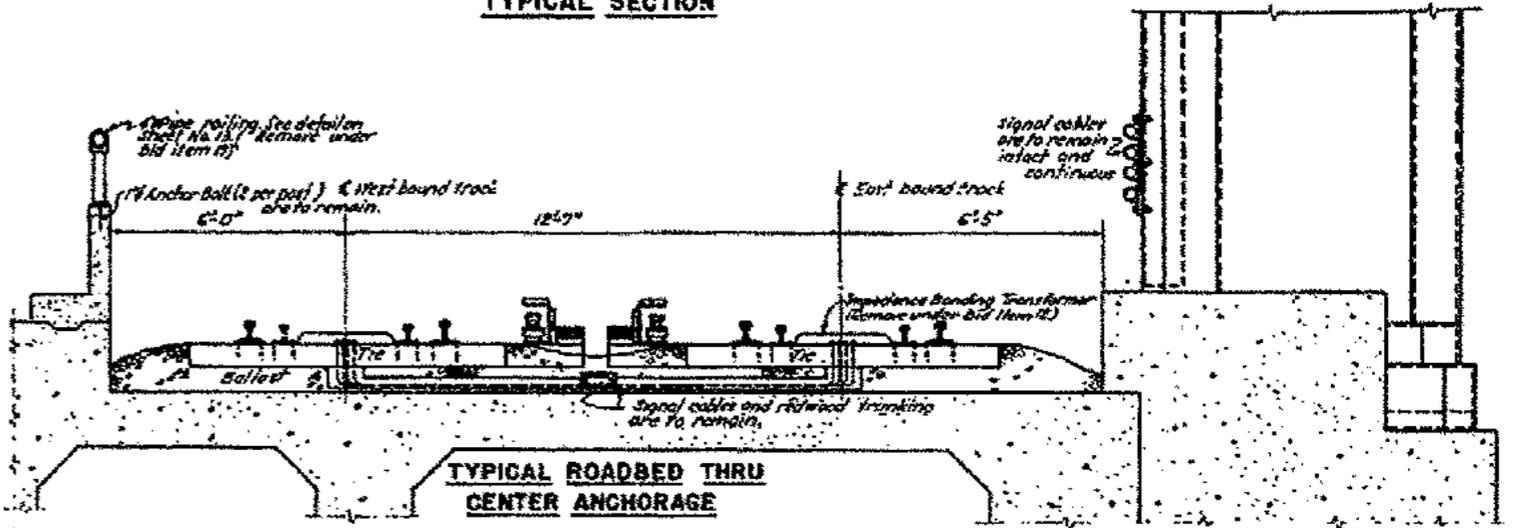
DATE: 1/30/82  
BY: JLB  
CHECKED: JLB  
DESIGNED: JLB  
PROJECT SUPERVISOR: JLB



TYPICAL PLAN



TYPICAL SECTION



TYPICAL ROADBED THRU CENTER ANCHORAGE

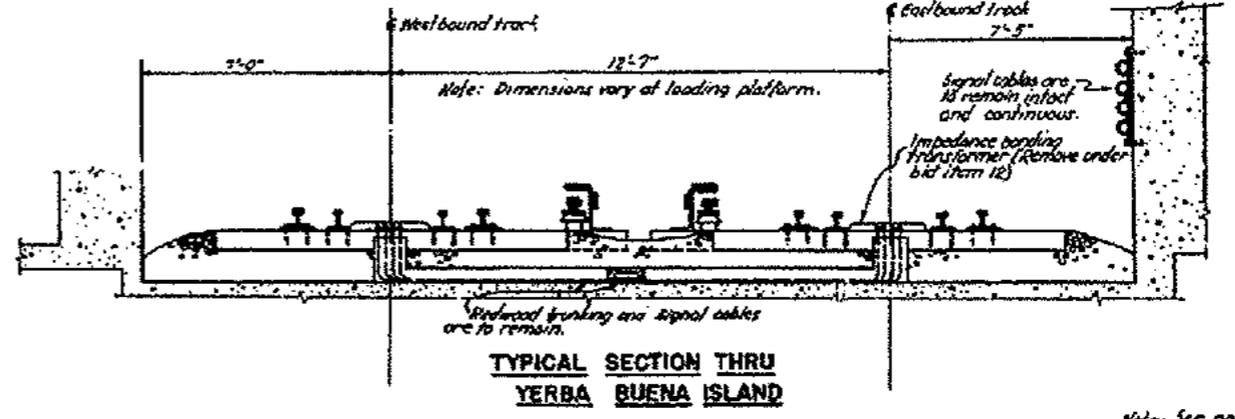
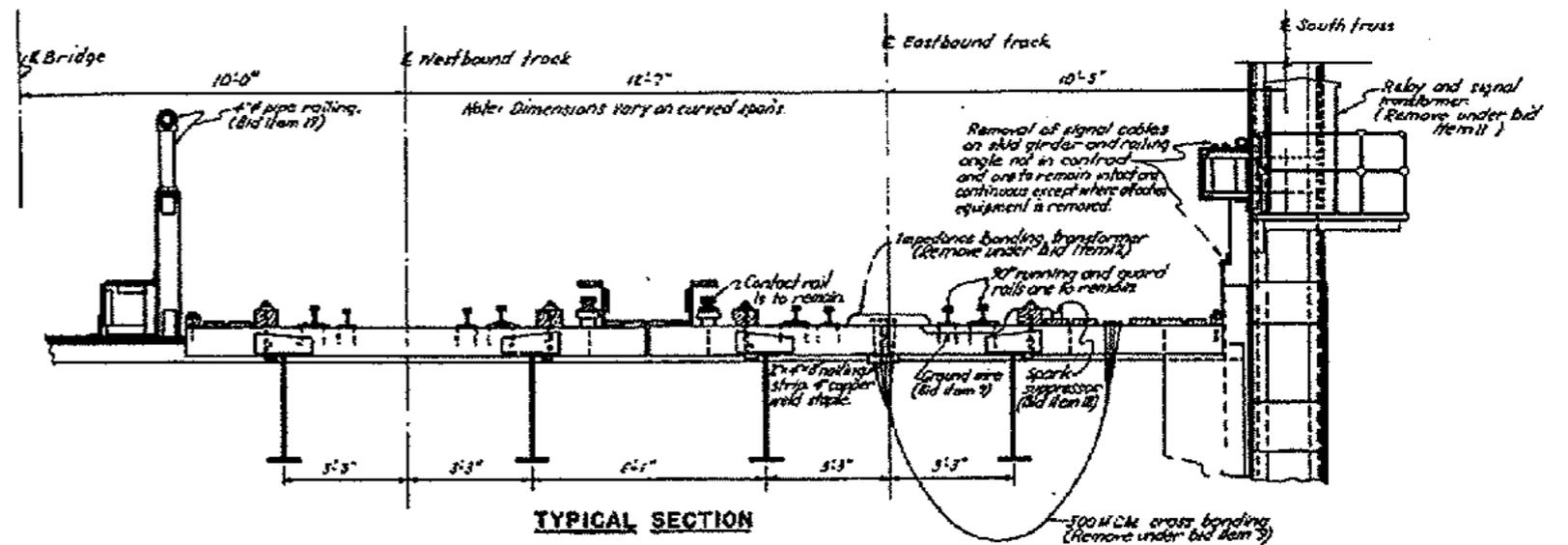
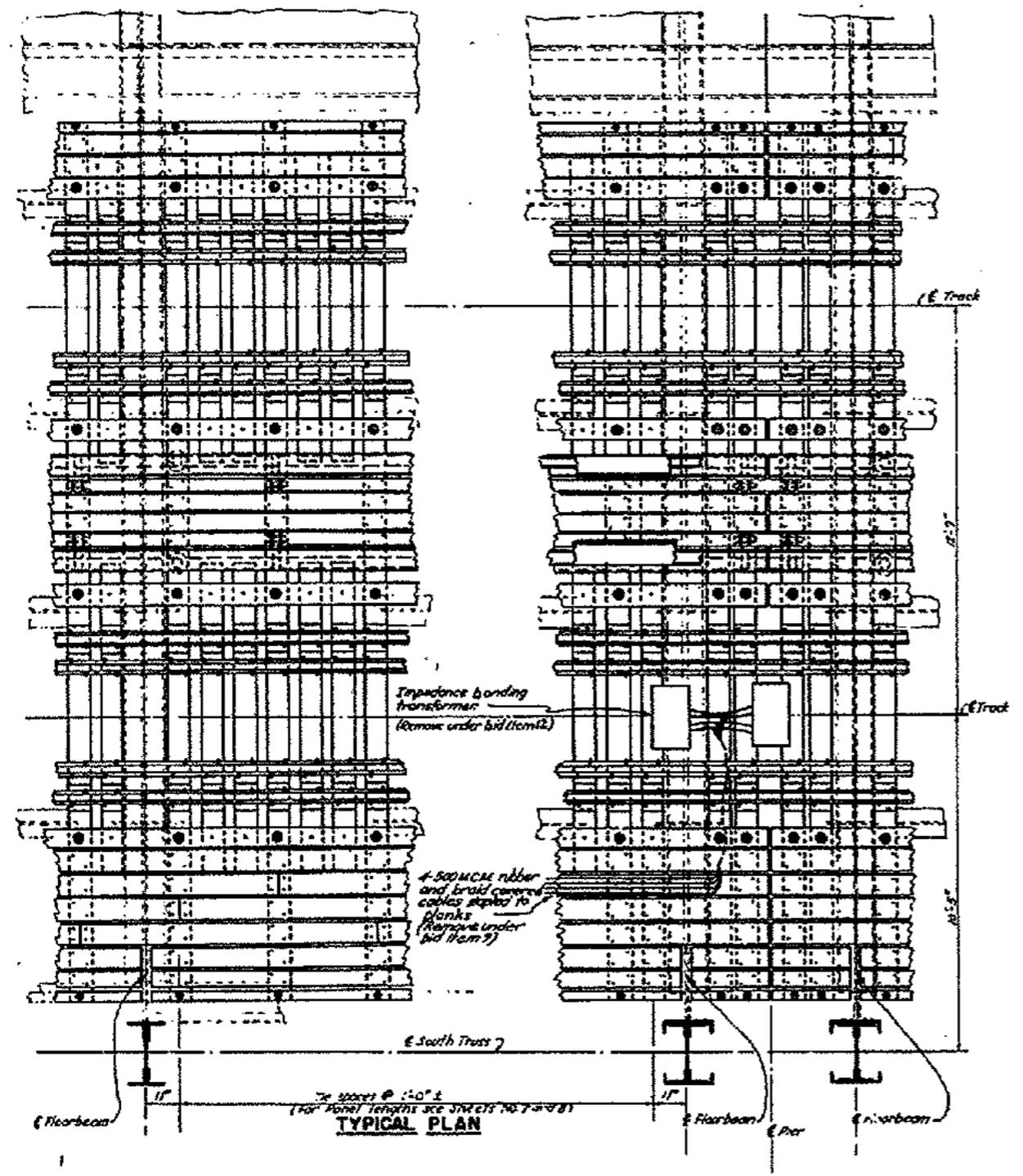
- NOTES**
1. Position of cables and electrical equipment varies at different locations on bridge.
  2. All facilities on bridge are to remain unless otherwise noted.
  3. Contractor may cut signal cables adjacent to terminals where impractical to disconnect.



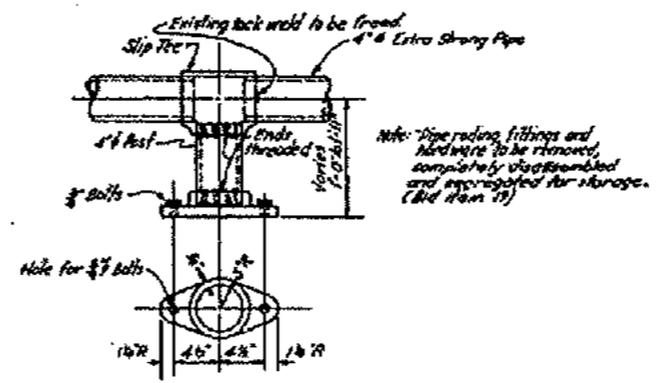
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS AND BAY TUNNELS			
<b>SAN FRANCISCO-OAKLAND BAY BRIDGE RECONSTRUCTION TRACK REMOVAL</b>			
<b>PLAN AND SECTIONS - WEST BAY SPANS</b>			
DATE	DESCRIPTION	BY	CHECKED
11-25-81	Build railroad revision	JLB	JLB
11-25-81	REVISION		
SCALE 1/2" = 1'-0"	BRIDGE 34-82	SHEET NO. 12	DRAWING C-4003-12R

APPROVAL RECOMMENDED BY  
  
 DATE 10/27/07

NO.	DATE	DESCRIPTION	BY	CHK
1	10/27/07	ISSUED FOR PERMIT	ML	ML
2	11/15/07	REVISION	ML	ML
3	11/15/07	REVISION	ML	ML
4	11/15/07	REVISION	ML	ML
5	11/15/07	REVISION	ML	ML
6	11/15/07	REVISION	ML	ML
7	11/15/07	REVISION	ML	ML
8	11/15/07	REVISION	ML	ML
9	11/15/07	REVISION	ML	ML
10	11/15/07	REVISION	ML	ML



Note: See notes on sheet 12



MARK	DATE	DESCRIPTION	BY	CHK
1	10/27/07	Built without revision	ML	ML

STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF SAN FRANCISCO BAY AREA COAST GUARD

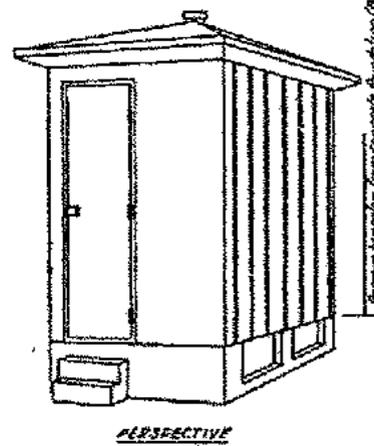
**SAN FRANCISCO-OAKLAND BAY BRIDGE  
 RECONSTRUCTION  
 TRACK REMOVAL**

**PLAN AND SECTIONS - EAST BAY SPANS**

33-25  
 34-03  
 34-04

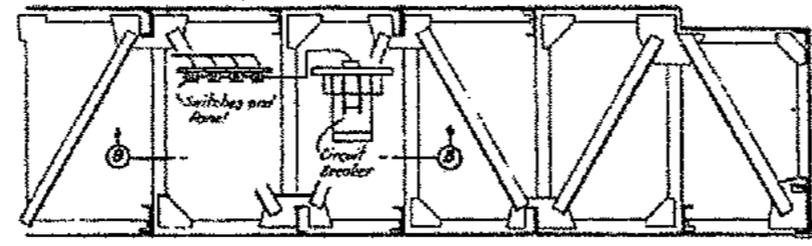
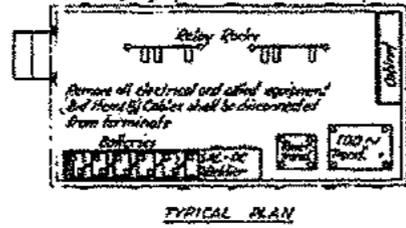
SCALE 1/2" = 1'-0" BRIDGE SHEET No. 13 DRAWING C-4000-18



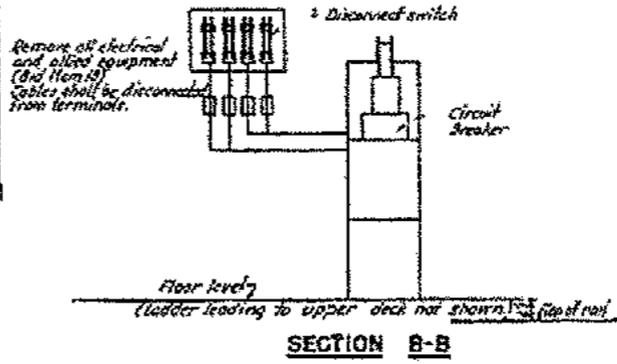


BUNGALOW	APPROX. SIZE	SQ. LOCATION	REMARKS
Block A	6' x 6'-6"	59 ± 19	To remove
Block B	6' x 6'	252 ± 44	To remain
Block C	6' x 6'	253 ± 00	To remain
Block D	6' x 12'	301 ± 00	To remain
Block E	6' x 12'	336 ± 52	To remain
Block F	6' x 10'	357 ± 36	To remain
Block H	6' x 15'	343 ± 76	To remain

\* Equipment in these bungalows removed and stored in warehouse, with exception of Block 'B' where relay equipment remains.

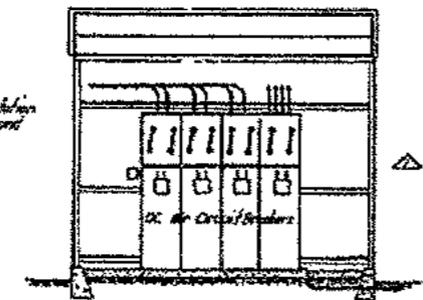
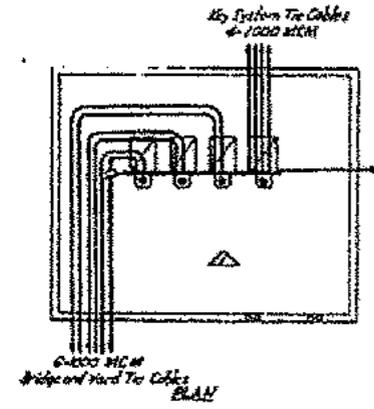


TIE STATION PLAN - PIER W4

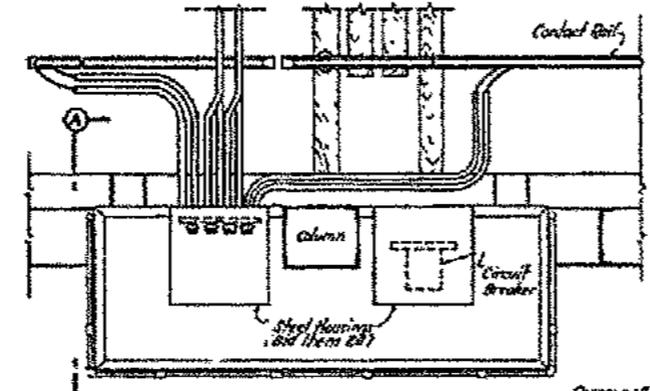


SECTION B-B

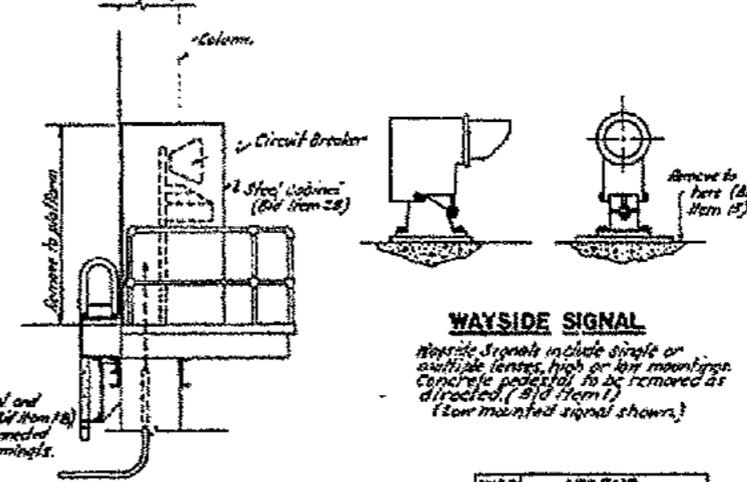
SIGNAL SYSTEM BUNGALOW DETAILS



EQUIPMENT ELEVATION



TIE STATION PLAN - PIER E-7

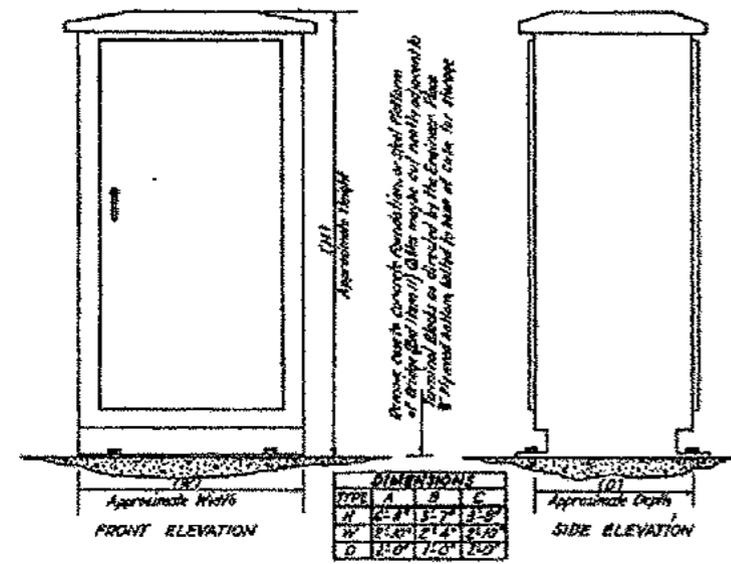


WAYSIDE SIGNAL

Wayside signals include single or multiple lenses, high or low mounting. Concrete pedestals to be removed as directed (Bid Item 1). (Low mounted signal shown.)

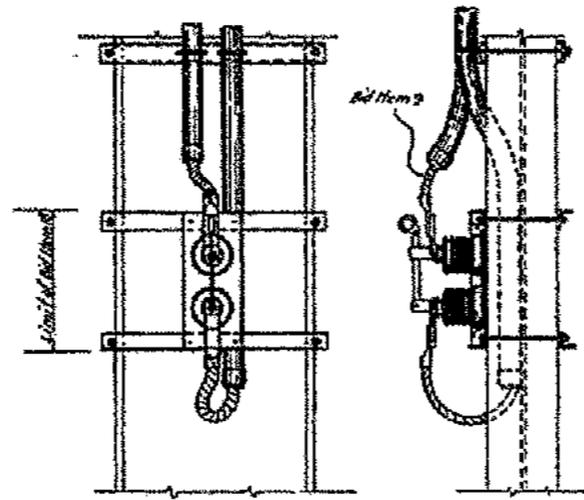
SECTION A-A

EAST BAY YARD D-C POWER TIE STATION



DIMENSIONS			
TYPE	A	B	C
H	2'-7"	3'-7"	3'-9"
W	2'-0"	2'-4"	2'-0"
D	1'-0"	1'-0"	1'-0"

RELAY AND TRANSFORMER ASSEMBLY



DISCONNECT SWITCH  
(Showing installation at Catenary Tower or Bridge Structure)

NOTES

1. Unless otherwise noted all materials shown herein shall remain.

WIRE	LEGEND
○	No. 14 Wire
○	No. 10 Wire
⊙	No. 6 Wire
⊙	No. 14 Marker Wire
⊙	No. 10 Marker Wire
⊙	No. 6 Marker Wire
⊙	Twisted Pair
⊙	Marker Twisted Pair

CABLE	DESCRIPTION	CABLE	DESCRIPTION
⊙	A 2 Conductors 3/8"	⊙	2 14 Conductors 3/10, 3/16 2-Tw. Pr.
⊙	B 2 Conductors 3/8"	⊙	2 16 Conductors 3/10, 3/16 3-Tw. Pr.
⊙	C 3 Conductors 3/12"	⊙	2 17 Conductors 3/10, 3/16 3-Tw. Pr.
⊙	D 7 Conductors 7/16"	⊙	2 19 Conductors 3/10, 3/16 3-Tw. Pr.
⊙	E 9 Conductors 1/10, 5/16"	⊙	2 19 Conductors 3/16"
⊙	F 11 Conductors 3/10, 5/16"	⊙	2 25 Conductors 25/16"
⊙	G 12 Conductors 7/16"	⊙	2 27 Conductors 27/16"
⊙	H 12 Conductors 13/16, 1-Tw. Pr.	⊙	2 37 Conductors 15/16, 3/10"
⊙	I 12 Conductors 1/2, 3/10, 2-Tw. Pr.	⊙	2 12 Conductors 3/10, 3/16 2-Tw. Pr.
⊙	J 14 Conductors 1/4"	⊙	TELEPHONE CABLE - Asphalt Coating - Steel Tape - Lead Sheath - Paper Wrapping (Class - Am. S. Mod.)

SIGNAL CABLE DESCRIPTIONS



STATE OF CALIFORNIA  
DIVISION OF SAN FRANCISCO BAY TOLL COLLECTORS

**SAN FRANCISCO-OAKLAND BAY BRIDGE  
RECONSTRUCTION  
TRACK REMOVAL**

**ELECTRICAL EQUIPMENT AND MATERIALS**

DATE: 3-23-57  
BY: [Signature]  
REVISION: [Signature]

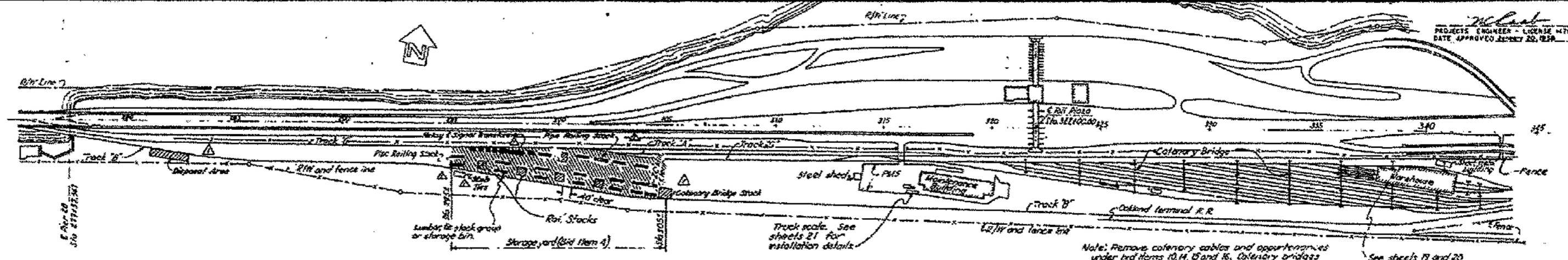
SCALE: NO. 33-23  
BRIDGE: 34-01  
SHEET NO. 15  
DRAWING: C-4003-15

APPROVAL, RECOMMENDED BY: [Signature] PROJECT ENGINEER

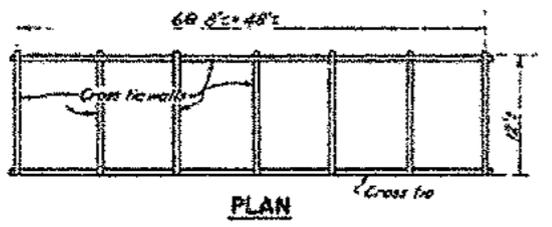
DATE	BY	DESCRIPTION
3-23-57	[Signature]	ISSUED FOR CONSTRUCTION
3-23-57	[Signature]	REVISION







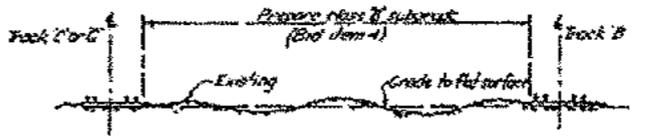
**PLAN OF STORAGE AREA**  
Scale: 1" = 200'



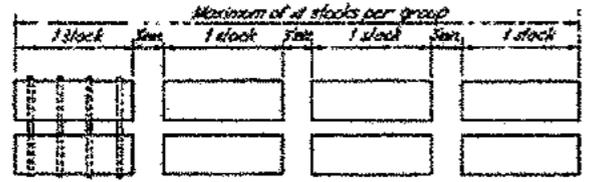
Random length cross ties may be used. Joints in adjacent courses shall be staggered 2'-0" minimum. Adjacent courses in walls shall be fastened together with a min. of 2 spikes.



**TYPICAL STORAGE BIN FOR RAIL FASTENINGS, PIPE FITTINGS, AND MISC. ITEMS**  
Scale: 1/2" = 1'-0" (Bid Item 5)



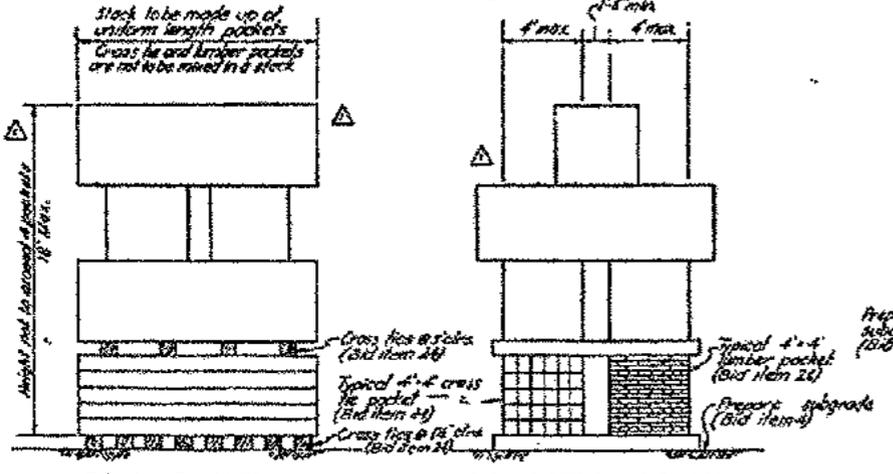
**TYPICAL SECTION AT STORAGE YARD**



**PLAN OF TYPICAL STACK GROUP**  
Scale: 1/2" = 1'-0"



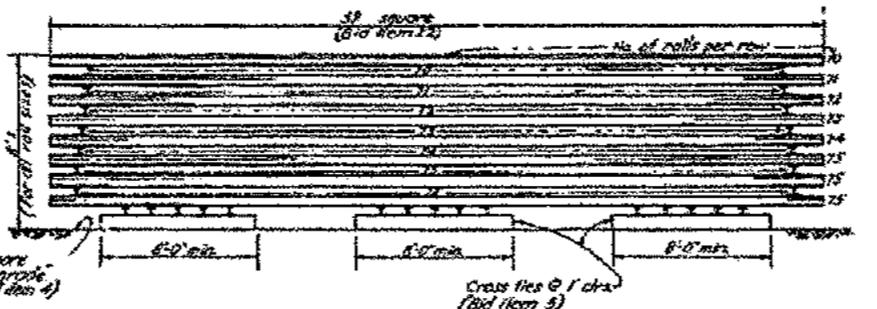
**TYPICAL STORAGE FOR PIPE RAILING**  
Scale: 1/2" = 1'-0"



**STACK ELEVATION**  
Scale: 1/2" = 1'-0"

**STACK CROSS-SECTION**  
Scale: 1/2" = 1'-0"

**TYPICAL CROSS TIE AND LUMBER STORAGE**



**TYPICAL STORAGE FOR RAILS**  
Scale: 1/2" = 1'-0"

Note: Detail drawn for 90° rails. Rails of respective sizes shall be kept in separate stacks; also 90° running rails and guard rails are to be stockpiled in separate stacks. Foundation pressure shall not exceed 2000 p.s.f.

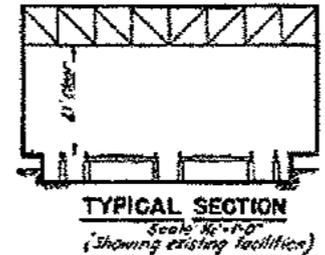
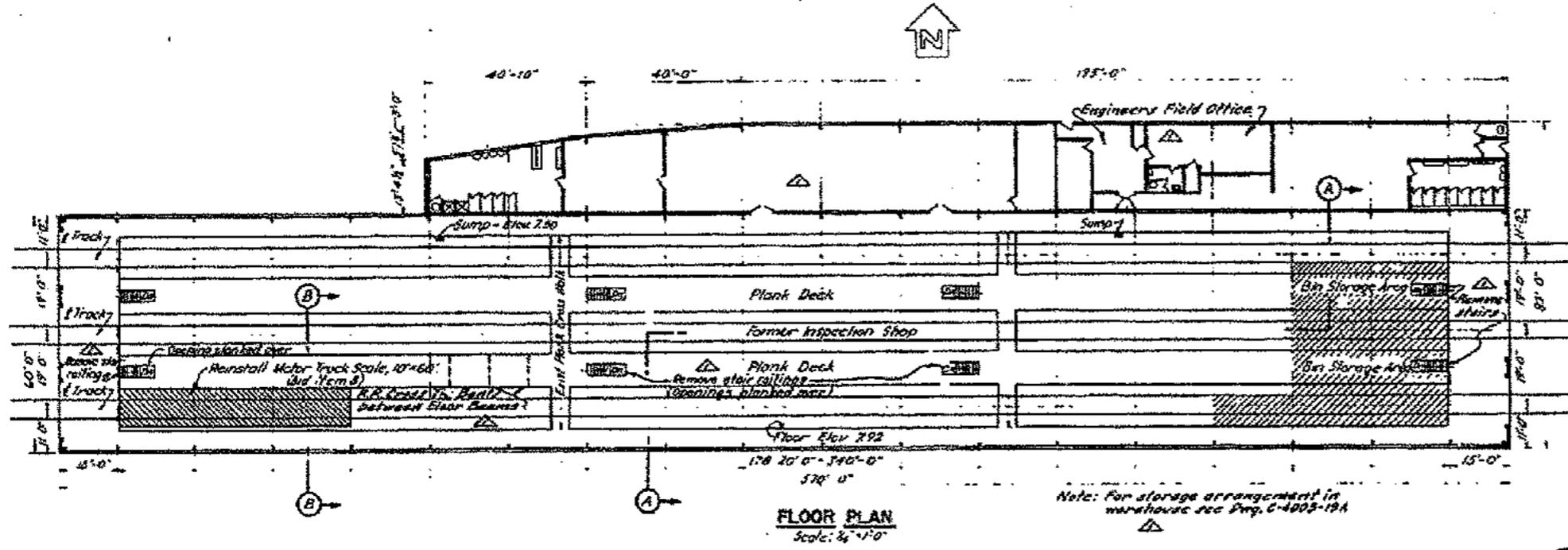
**NOTES**  
Keep rail and tie stacks clear of soil and water pipes.  
For East Bay Main Storage see Drawing P-4003-18A.



STATE OF CALIFORNIA DIVISION OF HIGHWAYS SAN FRANCISCO-OAKLAND BAY BRIDGE RECONSTRUCTION TRACK REMOVAL			
<b>STORAGE AREA LAYOUT AND DETAILS</b>			
SCALE AS SHOWN	SHEET NO. 16	DRAWING C-4003-18A	

APPROVAL RECOMMENDED BY: *W. L. P. [Signature]*  
LICENSE # [Number]

DATE	BY	DESCRIPTION



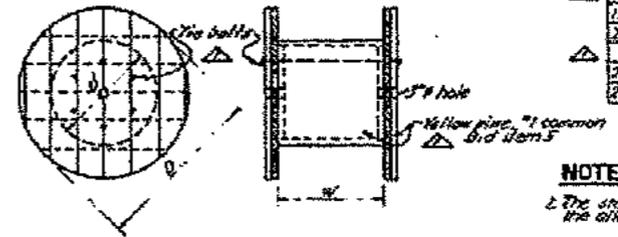
**STORAGE TABLE**

NO.	BID ITEM	AMOUNT	HOW STORED
9	Insulated Cables	590	Reels on platform (pieces in bins)
10	Pure Cables	1160	Reels on platform (pieces in bins)
11	Relay and Signal Transformer Assemblies	850	Platforms
12	Impedance Bonding Transformer	650	Platforms
13	Myrcite Signals	350	Platforms
14	Galvanic Isolator Assembly	150	Reels on platform
15	Rotary Pullover Assembly	50	Units in bins
16	Rotary Plungers	100	Units in bins
18	Misc. Electrical facilities	100	Platforms
20	Contact Rail Insulator Assembly	250	Reels on platform
27	Rail Fastenings (Bolts)	100	Pieces in bins
28	Misc. Iron and Steel (Bolts)	100	Pieces in bins

Note: For storage arrangement in warehouse see Prop. C-4003-19A

**STORAGE ALLOWABLE LOAD**

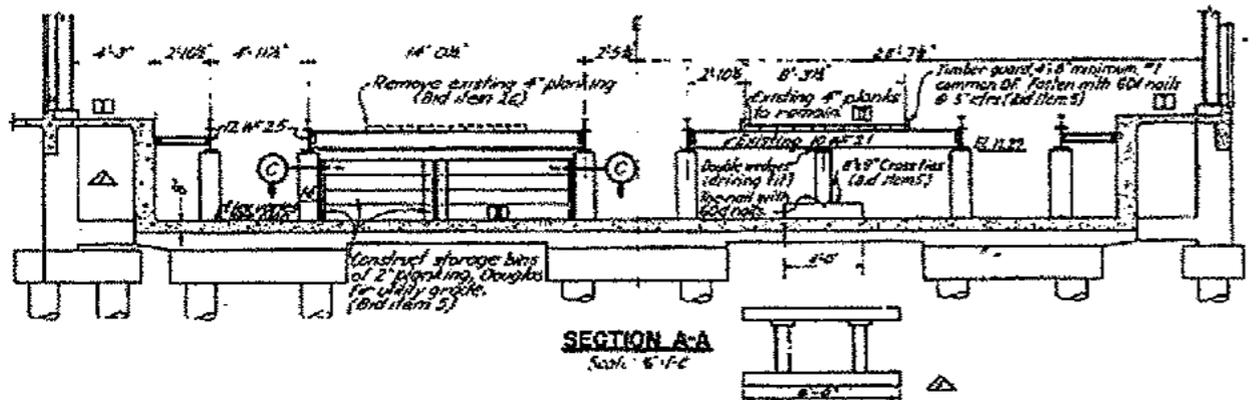
Area	Location	#ft
I	Concrete Platform	100
II	Timber Platform	225
III	Rail Slab	225



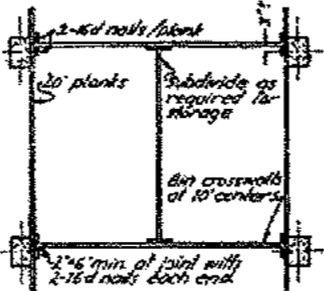
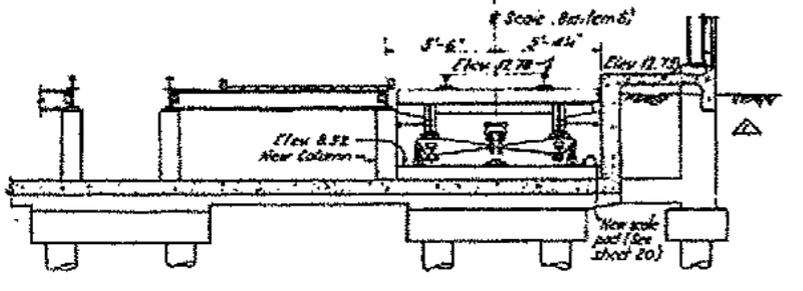
**CABLE REELS**  
Scale: 1/4" = 1'-0"

REEL DIMENSIONS	NO. CABLES TYPE (See Item 9)	ESTIMATED NUMBER OF CABLES PER REEL	WEIGHT OF CABLE PER REEL
48" x 24" x 24"	A, B 3/4" Bare wire	16	1500#
54" x 32" x 32"	C, D, E, H, L, U 3/4" Bare wire 3/4" Bare wire 3/4" Bare wire Copper wire	22	500# 6 4500#
48" x 40" x 36"	H, I, J, K, M, N, O 3/4" Bare wire 3/4" Bare wire 3/4" Bare wire Copper wire	60	1500# 10 4500#

- NOTES**
- The storage loading of areas in the warehouse shall not exceed the allowable loads shown.
  - The contractor shall submit for approval the storage method and arrangement he proposes to use. The wheel loads of forklift trucks and/or other equipment to be used shall be included.
  - The contractor shall submit for approval details of braces, pallets and reels required for storage. They shall be of the same strength consistent with the floor to be stored thereon.
  - All items stored shall be segregated according to size, type, shape or other category and shall be properly identified by tag, stencil, and/or other means approved by the Engineer.
  - Porcelain insulators shall be packed in excelsior-filled boxes.
  - For plan of warehouse storage see Drawing P-4003-19A



Detail at Cross Tie Bents midway between 10" x 21" Floor Beams at South Timber Platform only.



STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
OFFICE OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO-OAKLAND BAY BRIDGE  
RECONSTRUCTION  
TRACK REMOVAL**

**WAREHOUSE LAYOUT AND DETAILS**

SCALE AS SHOWN BRIDGE 33-23 34-03 34-04 SHEET No. 19 DRAWING C-4003-19A

REVISION

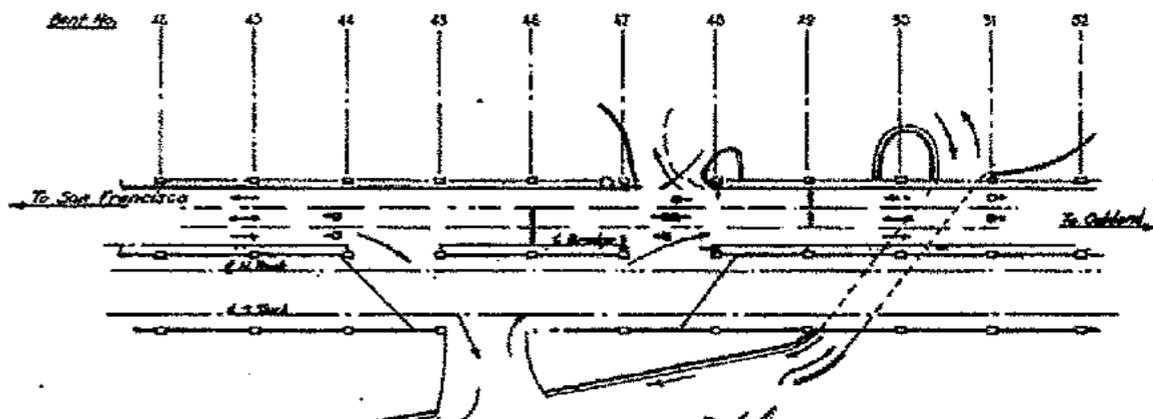
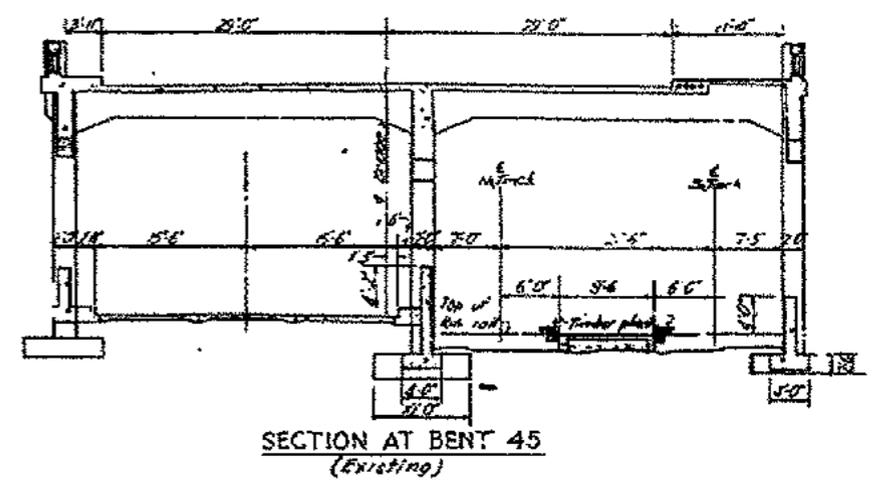
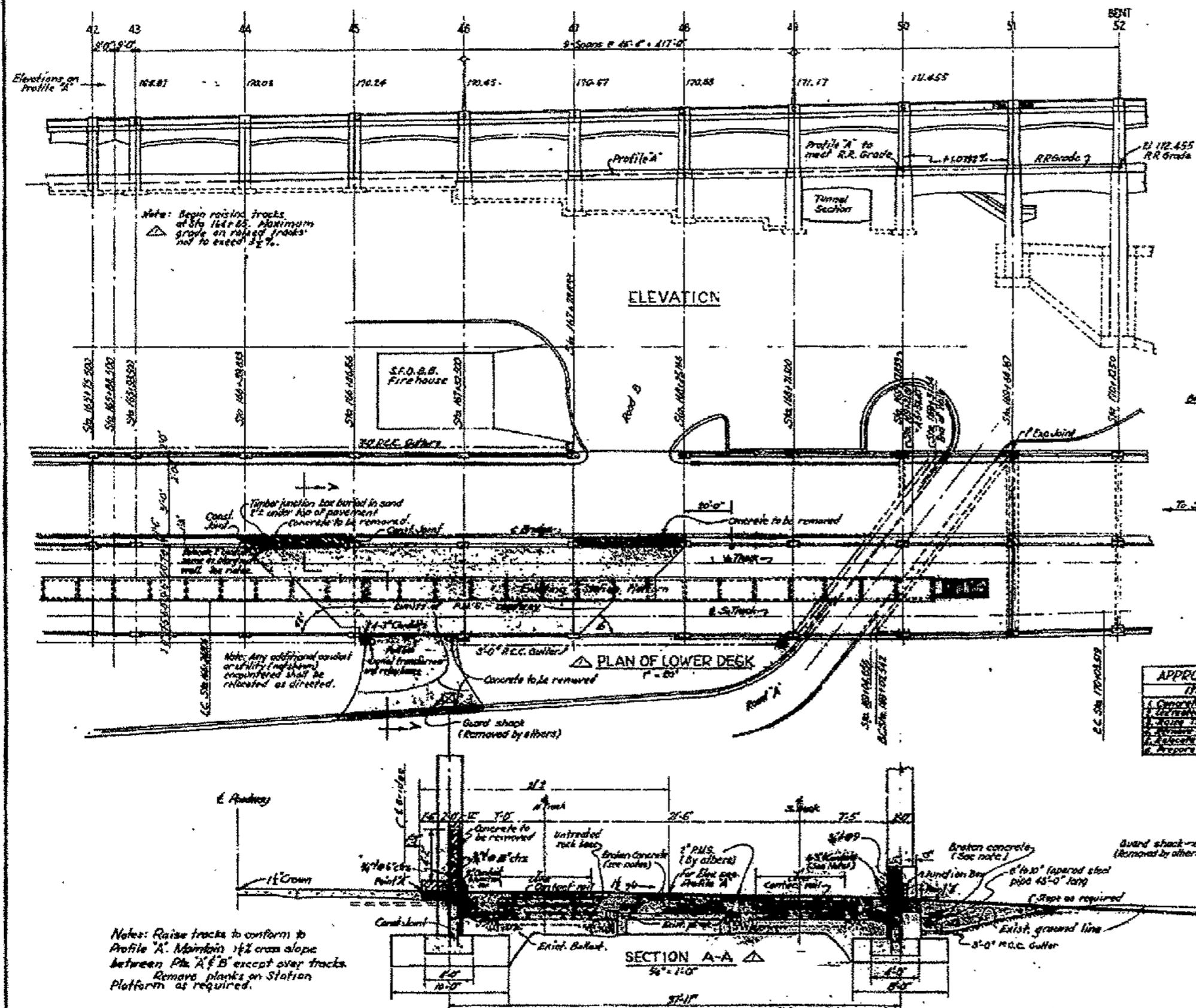
NO.	DATE	DESCRIPTION	BY	CHK.
1	33-23	As built conditions	JFS	JFL

APPROVAL RECOMMENDED BY: J. H. De La Hay, SUPERVISING ENGINEER, LICENSE 7187

DATE	BY	CHK.
33-23	JFS	JFL
34-03	JFS	JFL
34-04	JFS	JFL







**APPROXIMATE QUANTITIES**

Item	Unit	Quantity
1. Concrete - Removal	CY	45
2. Reinforcing Bars - New	LBS	500
3. RAILROAD TRACKS	LF	200
4. Temporary Roadway	LF	500
5. Temporary Utility	LF	400
6. Prepare Roadway	SF	200

**GENERAL NOTES**

No Scale  
(Showing Bus traffic flow to and from Temporary Bus Station.)  
Signals and flashing lights to be removed and replaced by State.  
- 1 color traffic signal  
- flashing yellow traffic signal  
- signal control station  
- strike on pavement with marking "WAIT HERE"  
- flashing yellow w/ red traffic signal

This plan shows structure changes to be made to accommodate the bus traffic during reconstruction. Necessary changes are to be performed by Key System Transit Lines.  
Contact walls shall be removed between Sta. 166+75 and Sta. 167+00 on the south track and between Sta. 166+75 and Sta. 168+00 on the north track.  
Disposal of broken concrete on station platform and roadway as shown in Section A-A.  
Top and bottom electrical conduits to be placed below ground along south wall, between Bents 45 and 46. Conduits to be removed over a sufficient length to permit lowering them without damage thereto.  
Second conduit down was cut and removed between Sta. 166+80 and Sta. 167+00. Cables in this conduit were cut and pulled back along conduit. Third conduit down was cut and removed between Sta. 166+80 and Sta. 167+00. Cable in this conduit was replaced and buried along with the top and bottom conduits. A wooden junction box containing this splice, as well as the splice in the telephone cable in the top conduit, was constructed, filled with sand, and buried in the roadway near the foot of the south wall between Bents 45 and 46, near Sta. 167+00.

Note: Work was performed under Service Agreement 46-TC-275, by Key System Transit Co.

**LEGEND**

Indicates concrete to be removed.  
Indicates R.M.S. roadway.

Notes: Raise tracks to conform to Profile 'A'. Maintain 1/2" cross slope between Pk. 'A' & 'B' except over tracks. Remove planks on Station Platform as required.

**EXHIBIT "A"**

**SAN FRANCISCO-OAKLAND BAY BRIDGE RECONSTRUCTION YERBA BUENA ISLAND TEMPORARY BUS STATION**

DATE	DESCRIPTION	BY	CHK.
11-22-51	As Built with revisions		
11-29-51			
12-04-51			

Scale As Shown  
SHEET NO. 7-A  
Drawing R469-527

APPROVAL: [Signature] PROJECT ENGINEER