



COUNTY OF IMPERIAL NILAND COUNTY SANITATION DISTRICT - WASTE WATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS IMPERIAL COUNTY PROJECT NO. 6582NSD

PROJECT DESCRIPTION

1. THE PROJECT IS A WASTE WATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENT PROJECT. THE PROJECT IS LOCATED IN THE NILAND COUNTY SANITATION DISTRICT, IMPERIAL COUNTY, CALIFORNIA. THE PROJECT IS BEING CONDUCTED BY THE COUNTY OF IMPERIAL, PUBLIC WORKS DEPARTMENT, UNDER THE SUPERVISION OF THE DIRECT SUPERVISOR OF CONSTRUCTION BY THE COUNTY OF IMPERIAL, PUBLIC WORKS DEPARTMENT.

2. THE PROJECT IS BEING CONDUCTED IN ACCORDANCE WITH THE SANITATION DISTRICT ACT, CALIFORNIA STATUTES, AND THE SANITATION DISTRICT REGULATIONS. THE PROJECT IS BEING CONDUCTED IN ACCORDANCE WITH THE SANITATION DISTRICT REGULATIONS, CHAPTER 14, ARTICLE 1, SECTION 14.01, WHICH PROVIDES THAT THE SANITATION DISTRICT SHALL BE RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF THE SANITATION DISTRICT'S SANITATION SYSTEM.

3. THE PROJECT IS BEING CONDUCTED IN ACCORDANCE WITH THE SANITATION DISTRICT REGULATIONS, CHAPTER 14, ARTICLE 1, SECTION 14.02, WHICH PROVIDES THAT THE SANITATION DISTRICT SHALL BE RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF THE SANITATION DISTRICT'S SANITATION SYSTEM. THE PROJECT IS BEING CONDUCTED IN ACCORDANCE WITH THE SANITATION DISTRICT REGULATIONS, CHAPTER 14, ARTICLE 1, SECTION 14.03, WHICH PROVIDES THAT THE SANITATION DISTRICT SHALL BE RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF THE SANITATION DISTRICT'S SANITATION SYSTEM.

4. THE PROJECT IS BEING CONDUCTED IN ACCORDANCE WITH THE SANITATION DISTRICT REGULATIONS, CHAPTER 14, ARTICLE 1, SECTION 14.04, WHICH PROVIDES THAT THE SANITATION DISTRICT SHALL BE RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF THE SANITATION DISTRICT'S SANITATION SYSTEM. THE PROJECT IS BEING CONDUCTED IN ACCORDANCE WITH THE SANITATION DISTRICT REGULATIONS, CHAPTER 14, ARTICLE 1, SECTION 14.05, WHICH PROVIDES THAT THE SANITATION DISTRICT SHALL BE RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF THE SANITATION DISTRICT'S SANITATION SYSTEM.

5. THE PROJECT IS BEING CONDUCTED IN ACCORDANCE WITH THE SANITATION DISTRICT REGULATIONS, CHAPTER 14, ARTICLE 1, SECTION 14.06, WHICH PROVIDES THAT THE SANITATION DISTRICT SHALL BE RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF THE SANITATION DISTRICT'S SANITATION SYSTEM. THE PROJECT IS BEING CONDUCTED IN ACCORDANCE WITH THE SANITATION DISTRICT REGULATIONS, CHAPTER 14, ARTICLE 1, SECTION 14.07, WHICH PROVIDES THAT THE SANITATION DISTRICT SHALL BE RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF THE SANITATION DISTRICT'S SANITATION SYSTEM.

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AGENCIES AND AGENCIES OF THE LOCAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AGENCIES AND AGENCIES OF THE LOCAL AGENCIES.

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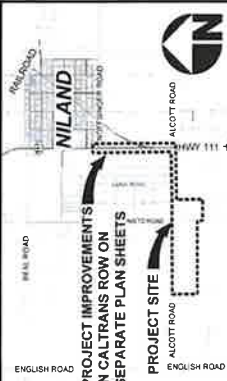
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AGENCIES AND AGENCIES OF THE LOCAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AGENCIES AND AGENCIES OF THE LOCAL AGENCIES.

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VICINITY MAP



LOCATION MAP



SHEET INDEX

SHEET NO.	SHEET TITLE
1	TITLE SHEET
2	HYDRAULIC PROFILE
3	WASTEWATER TREATMENT PLANT POTABLE WATER SYSTEM SITE DETAILS AND SECTIONS
4	GRAVITY PLAN, CHEMICAL CONTAINMENT STRUCTURE PLAN, CHLORINATION DETAIL AND SECTIONS
5	REHABILITATION DETAILS AND SECTIONS
6	SODIUM HYPOCHLORITE AND SODIUM METABISULFITE DETAILS AND SECTIONS
7	SEWAGE TREATMENT PLANT POTABLE WATER SYSTEM SITE DETAILS AND SECTIONS
8	WASTEWATER TREATMENT PLANT MISCELLANEOUS DETAILS
9	EASTING WASTEWATER TREATMENT PLANT EROSION CONTROL
10	EVAPORATION/INFILTRATION POND NO. 1 GRADING AND IMPROVEMENT PLAN
11	EVAPORATION/INFILTRATION POND NO. 2 GRADING AND IMPROVEMENT PLAN
12	EVAPORATION/INFILTRATION POND NO. 3 GRADING AND IMPROVEMENT PLAN
13	EVAPORATION/INFILTRATION POND NO. 4 GRADING AND IMPROVEMENT PLAN
14	EVAPORATION/INFILTRATION POND NO. 5 GRADING AND IMPROVEMENT PLAN
15	EVAPORATION/INFILTRATION POND NO. 6 GRADING AND IMPROVEMENT PLAN
16	EVAPORATION/INFILTRATION POND NO. 7 GRADING AND IMPROVEMENT PLAN
17	EVAPORATION/INFILTRATION POND NO. 8 GRADING AND IMPROVEMENT PLAN
18	EVAPORATION/INFILTRATION POND NO. 9 GRADING AND IMPROVEMENT PLAN
19	EVAPORATION/INFILTRATION POND NO. 10 GRADING AND IMPROVEMENT PLAN
20	EVAPORATION/INFILTRATION POND NO. 11 GRADING AND IMPROVEMENT PLAN
21	EVAPORATION/INFILTRATION POND NO. 12 GRADING AND IMPROVEMENT PLAN
22	EVAPORATION/INFILTRATION POND NO. 13 GRADING AND IMPROVEMENT PLAN
23	EVAPORATION/INFILTRATION POND NO. 14 GRADING AND IMPROVEMENT PLAN
24	EVAPORATION/INFILTRATION POND NO. 15 GRADING AND IMPROVEMENT PLAN
25	EVAPORATION/INFILTRATION POND NO. 16 GRADING AND IMPROVEMENT PLAN
26	EVAPORATION/INFILTRATION POND NO. 17 GRADING AND IMPROVEMENT PLAN
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32	EVAPORATION/INFILTRATION POND NO. 23 GRADING AND IMPROVEMENT PLAN
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39	EVAPORATION/INFILTRATION POND NO. 30 GRADING AND IMPROVEMENT PLAN
40	EVAPORATION/INFILTRATION POND NO. 31 GRADING AND IMPROVEMENT PLAN
41	EVAPORATION/INFILTRATION POND NO. 32 GRADING AND IMPROVEMENT PLAN
42	EVAPORATION/INFILTRATION POND NO. 33 GRADING AND IMPROVEMENT PLAN
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47	EVAPORATION/INFILTRATION POND NO. 38 GRADING AND IMPROVEMENT PLAN
48	EVAPORATION/INFILTRATION POND NO. 39 GRADING AND IMPROVEMENT PLAN
49	EVAPORATION/INFILTRATION POND NO. 40 GRADING AND IMPROVEMENT PLAN
50	EVAPORATION/INFILTRATION POND NO. 41 GRADING AND IMPROVEMENT PLAN

DECLARATION OF RESPONSIBLE CHARGE

I, _____, being duly sworn, depose and say that I am the duly authorized representative of the County of Imperial, California, and that I am the responsible charge of the project described herein. I understand that the scope of the project is as described herein and that I am responsible for the project.

DATE: _____

PROJECT TITLE

COUNTY OF IMPERIAL
NILAND COUNTY SANITATION DISTRICT - WASTE WATER
TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS

PROJECT NO.

6582NSD

DATE

1/14/13

REG. EXP.

09/25/2015

REG. NO.

192004

REG. EXP.

09/25/2015

REG. NO.

192004

REG. EXP.

09/25/2015

REG. NO.

192004

COUNTY OF IMPERIAL
PUBLIC WORKS DEPARTMENT

COUNTY OF IMPERIAL
DIRECTOR OF PUBLIC WORKS

DATE

1/14/13

REG. EXP.

09/25/2015

REG. NO.

192004

REG. EXP.

09/25/2015

REG. NO.

192004

REG. EXP.

09/25/2015

REG. NO.

192004

COUNTY OF IMPERIAL
PUBLIC WORKS DEPARTMENT

COUNTY OF IMPERIAL
DIRECTOR OF CONSTRUCTION

DATE

1/14/13

REG. EXP.

09/25/2015

REG. NO.

192004

REG. EXP.

09/25/2015

REG. NO.

192004

REG. EXP.

09/25/2015

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COUNTY OF IMPERIAL
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DATE

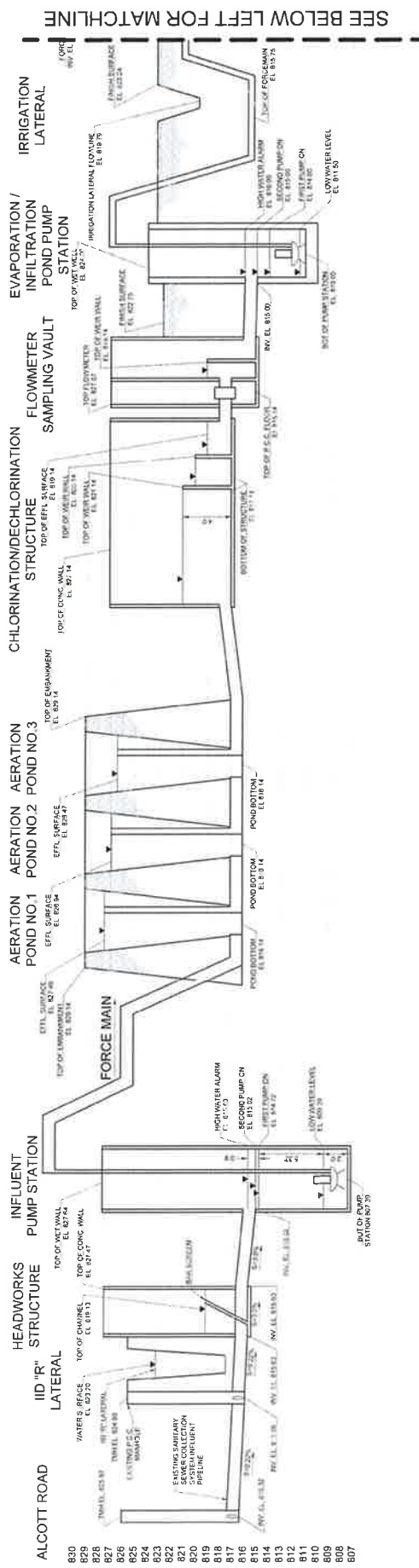
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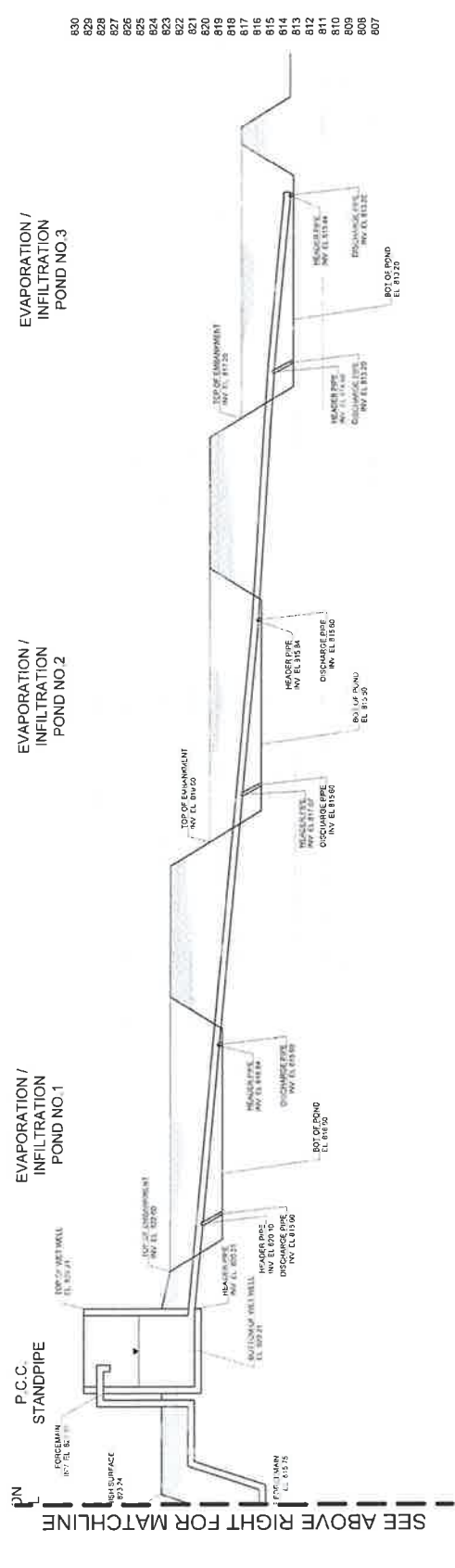
REG. EXP.

REG. NO.

REG. EXP.



SEE BELOW LEFT FOR MATCHLINE





SEE ABOVE RIGHT FOR MATCHLINE

NILAND WASTE WATER TREATMENT PLANT HYDRAULIC PROFILE
NOT TO SCALE

- 830
- 829
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- 822
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- 810
- 809
- 808
- 807

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF  DATE 08/29/2023		COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT APPROVED FOR CONSTRUCTION BY  DATE 10/19/23	PROJECT TITLE COUNTY OF IMPERIAL NILAND COUNTY AND COLLECTION SYSTEM IMPROVEMENTS HYDRAULIC PROFILE
R.C.E. No. 1291024 REG. EXP.	R.C.E. No. 08383 REG. EXP.	PROJECT NO. 09022021 SHEET NO. 3 OF 50	REFERENCE THIS SHEET

APN 021-220-003

SEE SHEETS 24 AND 25 FOR PUMP STATION SITE GRADING, DETAILS AND SECTIONS.

SEE PLAN AND PROFILE SHEET 21 FOR PUMP STATION EFFLUENT PIPELINE AND EMERGENCY OVERFLOW PIPELINE PROFILES

APN 021-200-006

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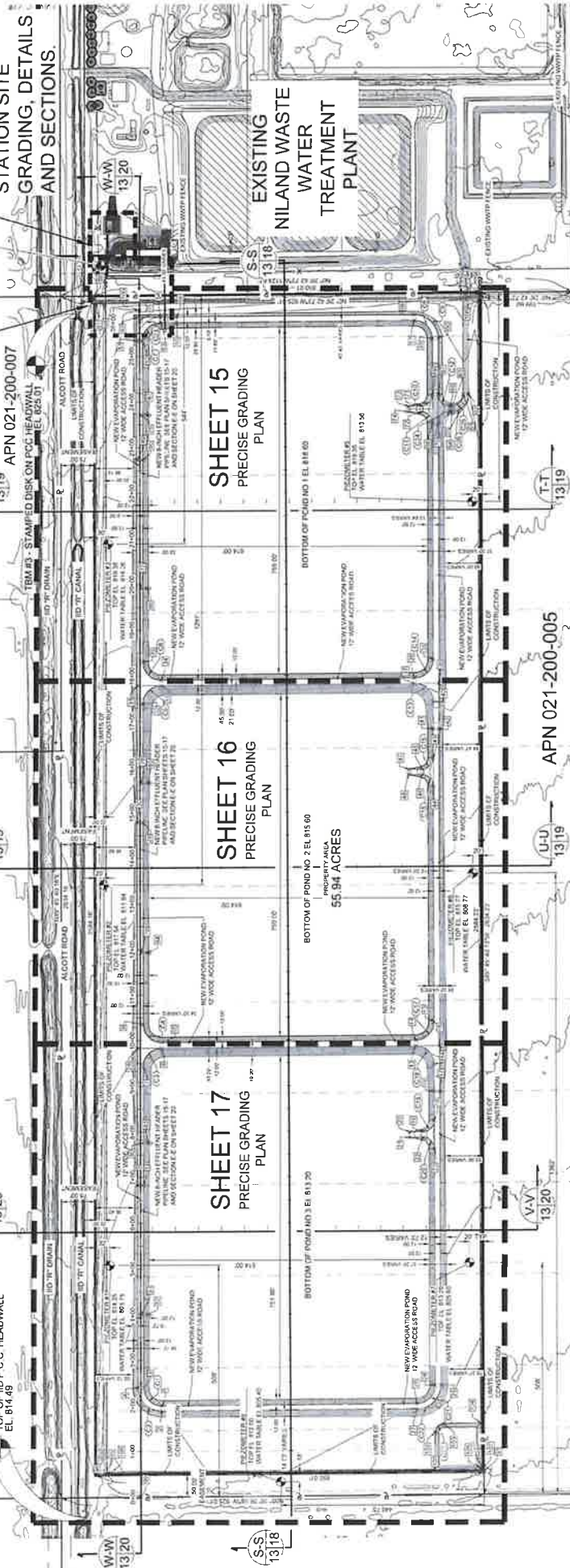
V-V 13/20

U-U 13/19

T-T 13/19

W-W 13/20

S-S 13/18



APN 021-240-002



Curve Table

Curve #	Length	Radius	Delta	Temp't
C-1	0.13	45.25	92.1	42.14
C-2	0.14	43.25	86.5	39.94
C-3	0.15	41.25	81.0	37.74
C-4	0.16	39.25	75.5	35.54
C-5	0.17	37.25	70.0	33.34
C-6	0.18	35.25	64.5	31.14
C-7	0.19	33.25	59.0	28.94
C-8	0.20	31.25	53.5	26.74
C-9	0.21	29.25	48.0	24.54
C-10	0.22	27.25	42.5	22.34
C-11	0.23	25.25	37.0	20.14
C-12	0.24	23.25	31.5	17.94
C-13	0.25	21.25	26.0	15.74
C-14	0.26	19.25	20.5	13.54
C-15	0.27	17.25	15.0	11.34
C-16	0.28	15.25	9.5	9.14
C-17	0.29	13.25	4.0	6.94
C-18	0.30	11.25	-1.5	4.74
C-19	0.31	9.25	-7.0	2.54
C-20	0.32	7.25	-12.5	0.34

Point Table

Point #	Stationing	Easting	Northing	Description
1	0+00	1000.00	1000.00	START OF GRADE
2	0+10	1000.00	1000.00	START OF GRADE
3	0+20	1000.00	1000.00	START OF GRADE
4	0+30	1000.00	1000.00	START OF GRADE
5	0+40	1000.00	1000.00	START OF GRADE
6	0+50	1000.00	1000.00	START OF GRADE
7	0+60	1000.00	1000.00	START OF GRADE
8	0+70	1000.00	1000.00	START OF GRADE
9	0+80	1000.00	1000.00	START OF GRADE
10	0+90	1000.00	1000.00	START OF GRADE
11	1+00	1000.00	1000.00	START OF GRADE
12	1+10	1000.00	1000.00	START OF GRADE
13	1+20	1000.00	1000.00	START OF GRADE
14	1+30	1000.00	1000.00	START OF GRADE
15	1+40	1000.00	1000.00	START OF GRADE
16	1+50	1000.00	1000.00	START OF GRADE
17	1+60	1000.00	1000.00	START OF GRADE
18	1+70	1000.00	1000.00	START OF GRADE
19	1+80	1000.00	1000.00	START OF GRADE
20	1+90	1000.00	1000.00	START OF GRADE
21	2+00	1000.00	1000.00	START OF GRADE
22	2+10	1000.00	1000.00	START OF GRADE
23	2+20	1000.00	1000.00	START OF GRADE
24	2+30	1000.00	1000.00	START OF GRADE
25	2+40	1000.00	1000.00	START OF GRADE
26	2+50	1000.00	1000.00	START OF GRADE
27	2+60	1000.00	1000.00	START OF GRADE
28	2+70	1000.00	1000.00	START OF GRADE
29	2+80	1000.00	1000.00	START OF GRADE
30	2+90	1000.00	1000.00	START OF GRADE
31	3+00	1000.00	1000.00	START OF GRADE
32	3+10	1000.00	1000.00	START OF GRADE
33	3+20	1000.00	1000.00	START OF GRADE
34	3+30	1000.00	1000.00	START OF GRADE
35	3+40	1000.00	1000.00	START OF GRADE
36	3+50	1000.00	1000.00	START OF GRADE
37	3+60	1000.00	1000.00	START OF GRADE
38	3+70	1000.00	1000.00	START OF GRADE
39	3+80	1000.00	1000.00	START OF GRADE
40	3+90	1000.00	1000.00	START OF GRADE
41	4+00	1000.00	1000.00	START OF GRADE
42	4+10	1000.00	1000.00	START OF GRADE
43	4+20	1000.00	1000.00	START OF GRADE
44	4+30	1000.00	1000.00	START OF GRADE
45	4+40	1000.00	1000.00	START OF GRADE
46	4+50	1000.00	1000.00	START OF GRADE
47	4+60	1000.00	1000.00	START OF GRADE
48	4+70	1000.00	1000.00	START OF GRADE
49	4+80	1000.00	1000.00	START OF GRADE
50	4+90	1000.00	1000.00	START OF GRADE
51	5+00	1000.00	1000.00	START OF GRADE
52	5+10	1000.00	1000.00	START OF GRADE
53	5+20	1000.00	1000.00	START OF GRADE
54	5+30	1000.00	1000.00	START OF GRADE
55	5+40	1000.00	1000.00	START OF GRADE
56	5+50	1000.00	1000.00	START OF GRADE
57	5+60	1000.00	1000.00	START OF GRADE
58	5+70	1000.00	1000.00	START OF GRADE
59	5+80	1000.00	1000.00	START OF GRADE
60	5+90	1000.00	1000.00	START OF GRADE
61	6+00	1000.00	1000.00	START OF GRADE
62	6+10	1000.00	1000.00	START OF GRADE
63	6+20	1000.00	1000.00	START OF GRADE
64	6+30	1000.00	1000.00	START OF GRADE
65	6+40	1000.00	1000.00	START OF GRADE
66	6+50	1000.00	1000.00	START OF GRADE
67	6+60	1000.00	1000.00	START OF GRADE
68	6+70	1000.00	1000.00	START OF GRADE
69	6+80	1000.00	1000.00	START OF GRADE
70	6+90	1000.00	1000.00	START OF GRADE
71	7+00	1000.00	1000.00	START OF GRADE
72	7+10	1000.00	1000.00	START OF GRADE
73	7+20	1000.00	1000.00	START OF GRADE
74	7+30	1000.00	1000.00	START OF GRADE
75	7+40	1000.00	1000.00	START OF GRADE
76	7+50	1000.00	1000.00	START OF GRADE
77	7+60	1000.00	1000.00	START OF GRADE
78	7+70	1000.00	1000.00	START OF GRADE
79	7+80	1000.00	1000.00	START OF GRADE
80	7+90	1000.00	1000.00	START OF GRADE
81	8+00	1000.00	1000.00	START OF GRADE
82	8+10	1000.00	1000.00	START OF GRADE
83	8+20	1000.00	1000.00	START OF GRADE
84	8+30	1000.00	1000.00	START OF GRADE
85	8+40	1000.00	1000.00	START OF GRADE
86	8+50	1000.00	1000.00	START OF GRADE
87	8+60	1000.00	1000.00	START OF GRADE
88	8+70	1000.00	1000.00	START OF GRADE
89	8+80	1000.00	1000.00	START OF GRADE
90	8+90	1000.00	1000.00	START OF GRADE
91	9+00	1000.00	1000.00	START OF GRADE
92	9+10	1000.00	1000.00	START OF GRADE
93	9+20	1000.00	1000.00	START OF GRADE
94	9+30	1000.00	1000.00	START OF GRADE
95	9+40	1000.00	1000.00	START OF GRADE
96	9+50	1000.00	1000.00	START OF GRADE
97	9+60	1000.00	1000.00	START OF GRADE
98	9+70	1000.00	1000.00	START OF GRADE
99	9+80	1000.00	1000.00	START OF GRADE
100	9+90	1000.00	1000.00	START OF GRADE

Point Table

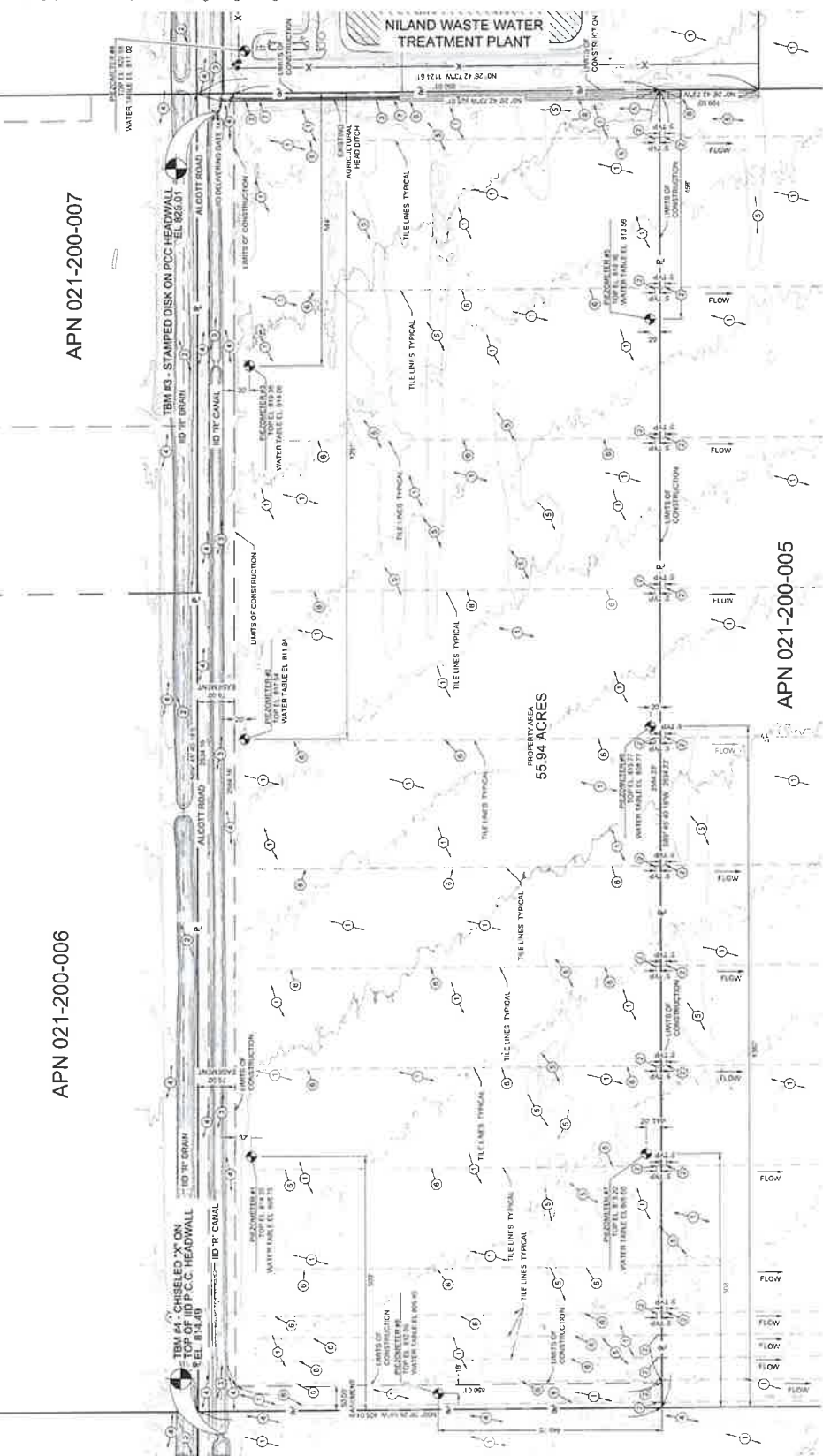
Point #	Stationing	Easting	Northing	Description
101	10+00	1000.00	1000.00	START OF GRADE
102	10+10	1000.00	1000.00	START OF GRADE
103	10+20	1000.00	1000.00	START OF GRADE
104	10+30	1000.00	1000.00	START OF GRADE
105	10+40	1000.00	1000.00	START OF GRADE
106	10+50	1000.00	1000.00	START OF GRADE
107	10+60	1000.00	1000.00	START OF GRADE
108	10+70	1000.00	1000.00	START OF GRADE
109	10+80	1000.00	1000.00	START OF GRADE
110	10+90	1000.00	1000.00	START OF GRADE
111	11+00	1000.00	1000.00	START OF GRADE
112	11+10	1000.00	1000.00	START OF GRADE
113	11+20	1000.00	1000.00	START OF GRADE
114	11+30	1000.00	1000.00	START OF GRADE
115	11+40	1000.00	1000.00	START OF GRADE
116	11+50	1000.00	1000.00	START OF GRADE
117	11+60	1000.00	1000.00	START OF GRADE
118	11+70	1000.00	1000.00	START OF GRADE
119	11+80	1000.00	1000.00	START OF GRADE
120	11+90	1000.00	1000.00	START OF GRADE
121	12+00	1000.00	1000.00	START OF GRADE
122	12+10	1000.00	1000.00	START OF GRADE
123	12+20	1000.00	1000.00	START OF GRADE
124	12+30	1000.00	1000.00	START OF GRADE
125	12+40	1000.00	1000.00	START OF GRADE
126	12+50	1000.00	1000.00	START OF GRADE
127	12+60	1000.00	1000.00	START OF GRADE
128	12+70	1000.00	1000.00	START OF GRADE
129	12+80	1000.00	1000.00	START OF GRADE
130	12+90	1000.00	1000.00	START OF GRADE
131	13+00	1000.00	1000.00	START OF GRADE
132	13+10	1000.00	1000.00	START OF GRADE
133	13+20	1000.00	1000.00	START OF GRADE
134	13+30	1000.00	1000.00	START OF GRADE
135	13+40	1000.00	1000.00	START OF GRADE
136	13+50	1000.00	1000.00	START OF GRADE
137	13+60	1000.00	1000.00	START OF GRADE
138	13+70	1000.00	1000.00	START OF GRADE
139	13+80	1000.00	1000.00	START OF GRADE
140	13+90	1000.00	1000.00	START OF GRADE

Point Table

Point #	Stationing	Easting	Northing	Description
141	14+00	1000.00	1000.00	START OF GRADE
142	14+10	1000.00	1000.00	START OF GRADE
143	14+20	1000.00	1000.00	START OF GRADE
144	14+30	1000.00	1000.00	START OF GRADE
145	14+40	1000.00	1000.00	START OF GRADE
146	14+50	1000.00	1000.00	START OF GRADE
147	14+60	1000.00	1000.00	START OF GRADE
148	14+70	1000.00	1000.00	START OF GRADE
149	14+80	1000.00	1000.00	START OF GRADE
150	14+90	1000.00	1000.00	START OF GRADE
151	15+00	1000.00	1000.00	START OF GRADE
152	15+10	1000.00	1000.00	START OF GRADE
153	15+20	1000.00	1000.00	START OF GRADE
154	15+30	1000.00	1000.00	START OF GRADE
155	15+40	1000.00	1000.00	START OF GRADE
156	15+50	1000.00	1000.00	START OF GRADE
157	15+60	1000.00	1000.00	START OF GRADE
158	15+70	1000.00	1000.00	START OF GRADE
159	15+80	1000.00	1000.00	START OF GRADE
160	15+90	1000.00	1000.00	START OF GRADE

Point Table

Point #	Stationing	Easting	Northing	Description
161	16+00	1000.00	1000.00	START OF GRADE
162	16+10	1000.00		

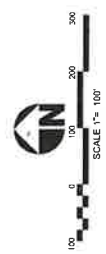


- EVAPORATION / INFILTRATION PONDS**
- EXISTING KEYNOTES**
1. EXISTING MATERIAL
 2. EXISTING IRRIGATION CANAL TO REMAIN
 3. EXISTING IRRIGATION DRAIN
 4. EXISTING DIRT ROAD
 5. EXISTING DENSE BRUSH VEGETATION
 6. EXISTING DAMAGE TILE LINE TO BE REPAIR/REPLACE
 7. EXISTING DEGRADED CONCRETE LINED IRRIGATION LATERAL
 8. EXISTING DIRT LINED IRRIGATION LATERAL

- DEMOLITION KEYNOTES**
1. EXISTING IRRIGATION CANAL TO BE DEMOLISHED AND DISPOSED
 2. EXISTING IRRIGATION DRAIN TO BE DEMOLISHED AND DISPOSED
 3. EXISTING DIRT ROAD TO BE DEMOLISHED AND DISPOSED
 4. EXISTING DENSE BRUSH VEGETATION TO BE REMOVED AND DISPOSED
 5. EXISTING DAMAGE TILE LINE TO BE REPAIR/REPLACE
 6. EXISTING DEGRADED CONCRETE LINED IRRIGATION LATERAL TO BE DEMOLISHED AND DISPOSED
 7. EXISTING DIRT LINED IRRIGATION LATERAL TO BE DEMOLISHED AND DISPOSED

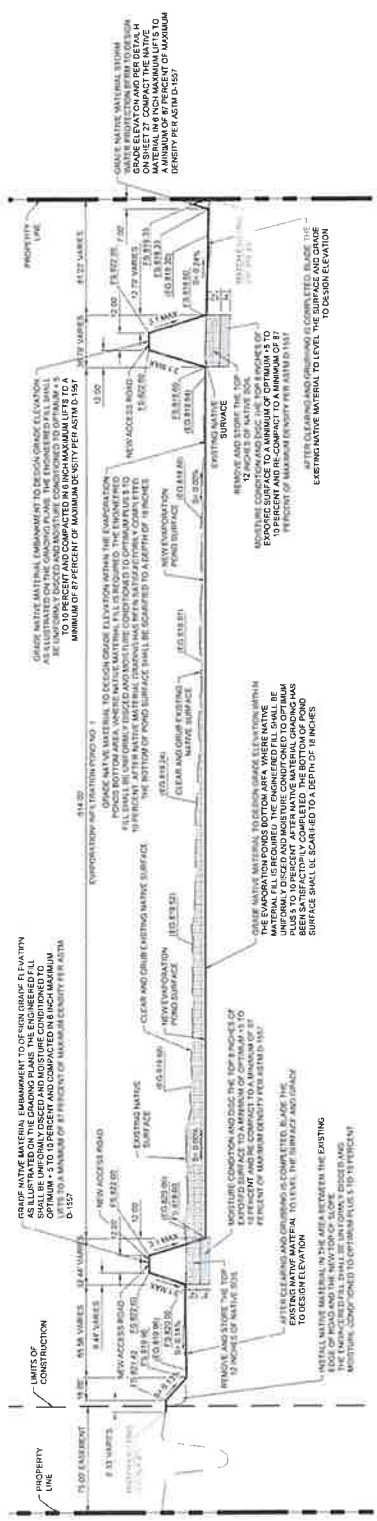
NOTE

THE EXACT HORIZONTAL AND VERTICAL UNDERGROUND DRAINAGE TIE LINES ILLUSTRATED ON THIS PLAN ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE EXISTING DRAINAGE TIE LINES.

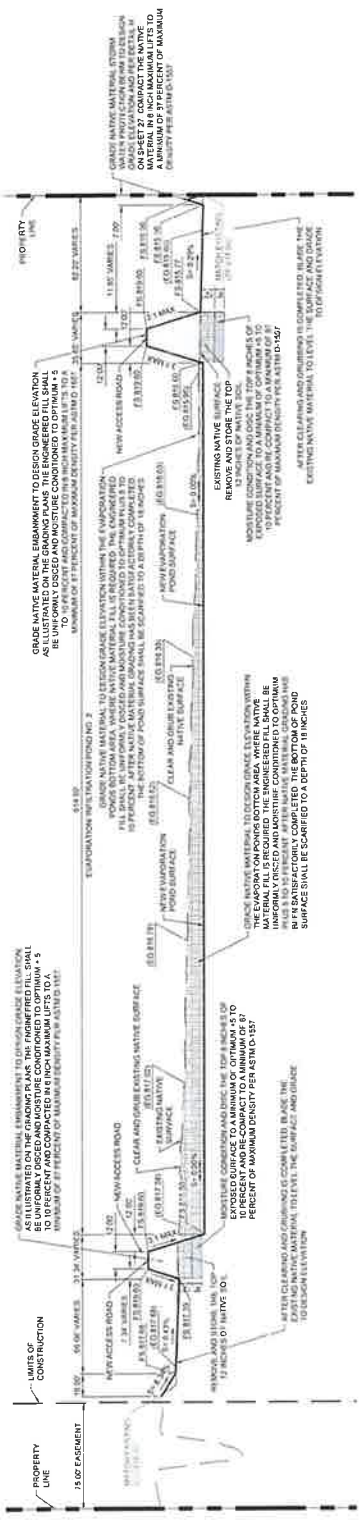


REVISION	DATE	COMMENTS

	<p>PREPARED UNDER THE DIRECT SUPERVISION OF</p> <p>JAMES E. JACKSON</p> <p>DATE: 09/22/23</p>
	<p>COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT</p> <p>APPROVED FOR CONSTRUCTION (RFP)</p> <p>JOHN GAY</p> <p>DIRECTOR OF PUBLIC WORKS</p> <p>DATE: 10/9/23</p>
<p>PROJECT NO. 09252023</p> <p>ISSUE NO. 01</p> <p>DATE: 09/22/23</p>	<p>PUBLIC WORKS DEPARTMENT</p> <p>COUNTY OF IMPERIAL</p> <p>EL CENTRO, CALIFORNIA</p>
<p>PROJECT TITLE</p> <p>NILAND COUNTY OF IMPERIAL WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS</p> <p>EVAPORATION/INFILTRATION POND EXISTING SITE PLAN</p>	<p>REFERENCE</p> <p>PROJECT NO. 14</p> <p>SHEET 1 OF 50</p>



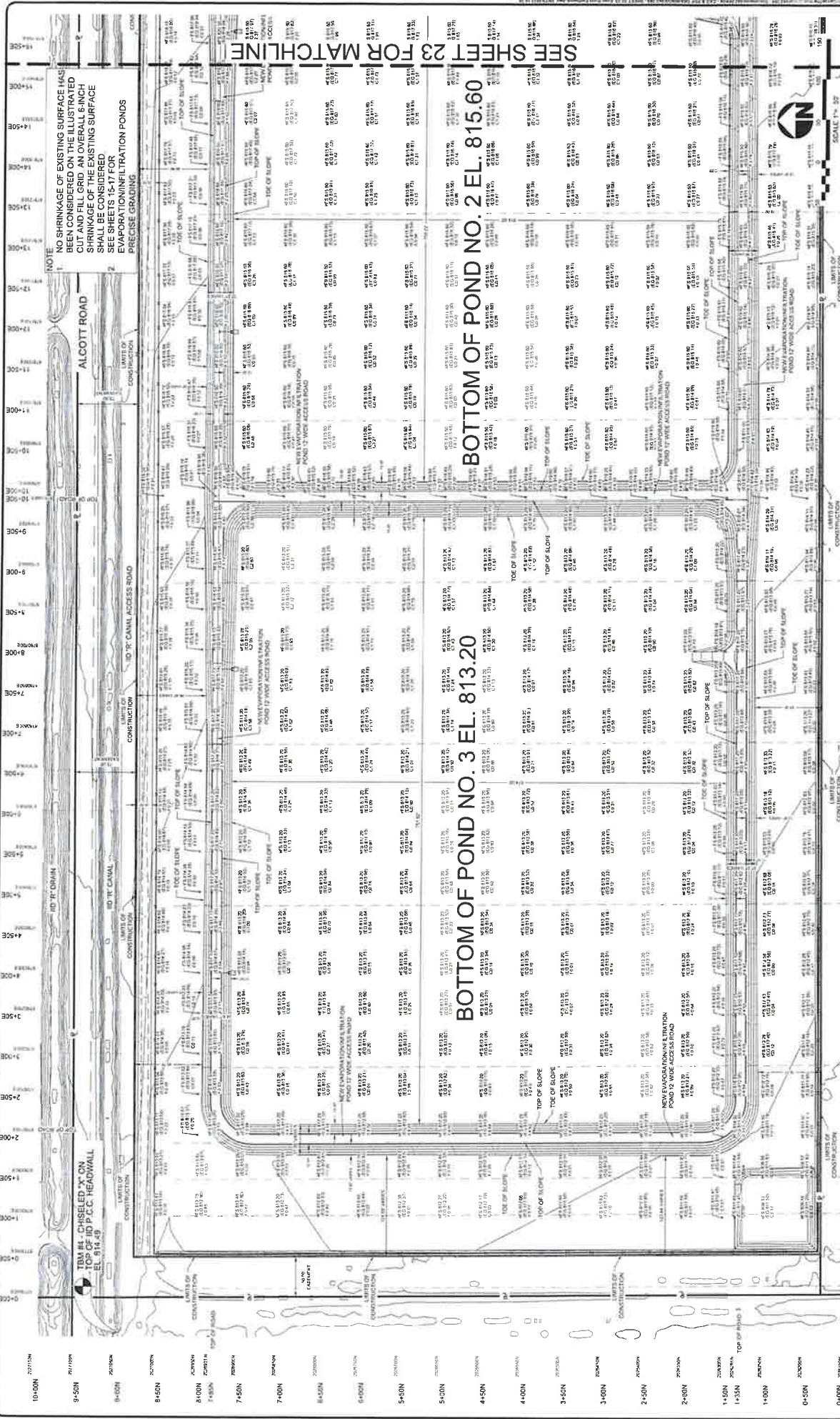
EVAPORATION/INFILTRATION POND CROSS SECTION T-T
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 4"
 13.15.19



EVAPORATION/INFILTRATION POND CROSS SECTION U-U
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 4"
 13.16.19

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF JAMES J. HOHL 09/22/2023 DATE	PROJECT NO. 09220233 SHEET NO. 19 OF 50 COUNTY OF IMPERIAL EL CENTRO, CALIFORNIA PUBLIC WORKS DEPARTMENT COUNTY OF IMPERIAL EL CENTRO, CALIFORNIA PROJECT TITLE: NILAND COUNTY WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS EVAPORATION/INFILTRATION POND CROSS SECTIONS
---	---



SEE SHEET 23 FOR MATCHLINE

BOTTOM OF POND NO. 2 EL. 815.60

BOTTOM OF POND NO. 3 EL. 813.20

NOTE
NO SHRINKAGE OF EXISTING SURFACE HAS BEEN CONSIDERED ON THE ILLUSTRATED CUT AND FILL GRID. AN OVERALL 6-INCH SHALLOW CUT TO EXISTING SURFACE SHALL BE CONSIDERED. SEE SHEETS 15-17 FOR EVAPORATION/INFILTRATION PONDS PRECISE GRADING.

ALCOTT ROAD

10+000 11+000 12+000 13+000 14+000 15+000 16+000 17+000 18+000 19+000 20+000

10+000 11+000 12+000 13+000 14+000 15+000 16+000 17+000 18+000 19+000 20+000

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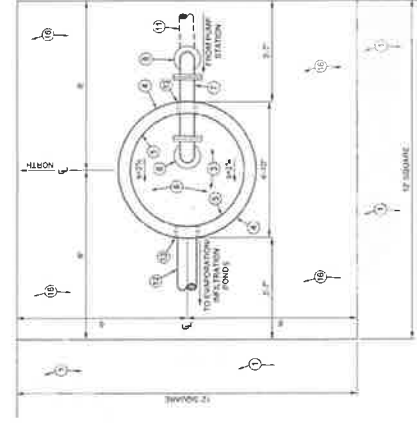
PROJECT TITLE	EL CENTRO, CALIFORNIA
PROJECT NO.	0902023
DATE	12/19/13
SCALE	1" = 30'
REVISION	DATE
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47	12/19/13
48	12/19/13
49	12/19/13
50	12/19/13

PREPARED UNDER THE DIRECT SUPERVISION OF
 COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 SUPERVISOR OF PUBLIC WORKS
 DATE 09/25/02
 REG EXP 0902023

PUBLIC WORKS DEPARTMENT
 COUNTY OF IMPERIAL
 EL CENTRO, CALIFORNIA

PROJECT TITLE
 EL CENTRO, CALIFORNIA
 TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS
 EVAPORATION/INFILTRATION
 POND SITE EARTHWORK

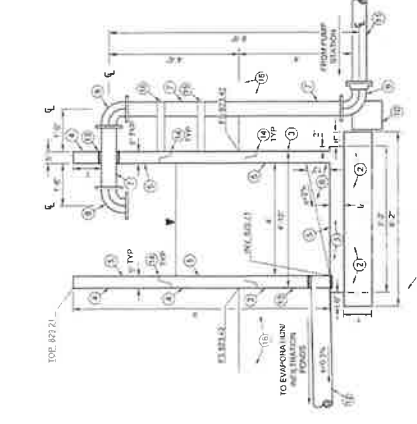
REFERENCE
 T10 042 006
 SHEET 22 OF 50



PLAIN VIEW

STAND PIPE AND P.C.C. WATER WELL DETAIL
NOT TO SCALE

AA 15/26

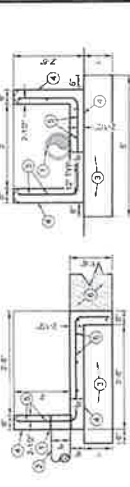


SECTION VIEW

STAND PIPE AND P.C.C. WATER WELL DETAIL
NOT TO SCALE

AA 15/26

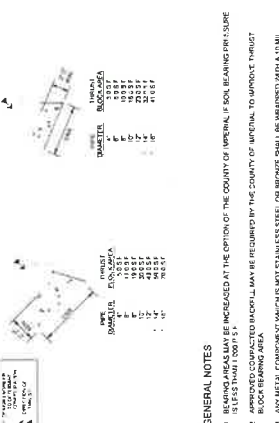
1. INSTALL UNWELDED MATERIAL TO FRESH CONCRETE AS ILLUSTRATED ON SHEET 14 OF THE IMPROVEMENT TO THE MAINLINE PIPELINE PROJECT. PERFORM THIS WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SECTION 05110-1.00.
2. INSTALL 3/4" MAXIMUM DIAMETER PIPEROCK.
3. INSTALL REINFORCED 4 FOOT INCH DIAMETER FRESH CONCRETE MANHOLE BASE.
4. INSTALL ALL INTERIOR CONCRETE SURFACES OF THE WET WELL WITH A MINIMUM 4000 PSI UNADDED PORTLAND CEMENT CONCRETE. THE INTERIOR SURFACES SHALL BE FINISHED WITH A SMOOTH FINISH.
5. INSTALL 1/2" THICK CONCRETE CURB AT THE INTERIOR BOTTOM OF THE WET WELL. PLACE THE CURB ABOUT 1/2" FROM THE INTERIOR SURFACES OF THE WET WELL. THE CURB SHALL BE FINISHED WITH A SMOOTH FINISH.
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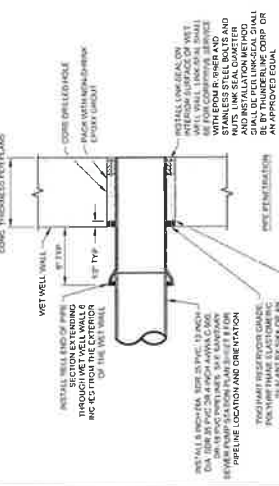
EVAPORATION/INFILTRATION POND
NOT TO SCALE

BB 15-17/26

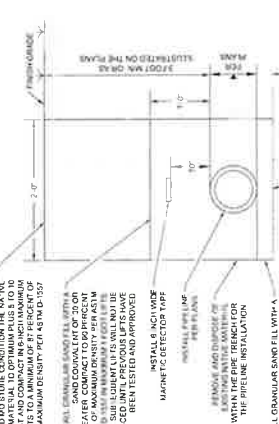
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GENERAL NOTES
1. BEARING AREAS MAY BE INCREASED AT THE OPTION OF THE COUNTY OF IMPERIAL, IF SOIL BEARING PRELIMINARY TESTS SHOW A LOWER SOIL BEARING CAPACITY THAN THAT ASSUMED IN THE DESIGN.
2. ANY METAL COMPONENT WHICH IS IN CONTACT WITH CONCRETE SHALL BE GALVANIZED OR OTHERWISE PROTECTED AGAINST CORROSION.
3. POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) SHALL BE USED FOR ALL FRP COMPONENTS.
4. UNLESS OTHERWISE NOTED, TRUSS BLOCKS SHALL BE 12 INCHES SQUARE AND 12 INCHES HIGH.
5. AFTER THE TRUSS BLOCKS ARE IN PLACE, THE TOP OF THE PIPE SHALL BE FINISHED WITH A SMOOTH FINISH.
6. ALL FITTINGS AND HARDWARE SHALL REMAIN EXPOSED AFTER THE CONCRETE TRUSS BLOCK PLACEMENT TO ALLOW FOR ACCESS FOR REMOVAL AND REPLACEMENT OF THE HARDWARE AS REQUIRED.
7. CONCRETE SHALL CONTAIN SACKS OF CEMENT PER CUBIC YARD AND AFTER A COMPRESSIVE STRENGTH OF 4000 PSI IS OBTAINED.



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P.C.C. THRUST BLOCK DETAIL
NOT TO SCALE

WET WELL PIPELINE PENETRATION DETAIL
NOT TO SCALE

6-INCH EFFLUENT FORCE MAIN AND 8-INCH DISCHARGE HEADER PIPELINE TRENCH DETAIL
NOT TO SCALE

FF 15/26

EE 15/26

DD 15/26

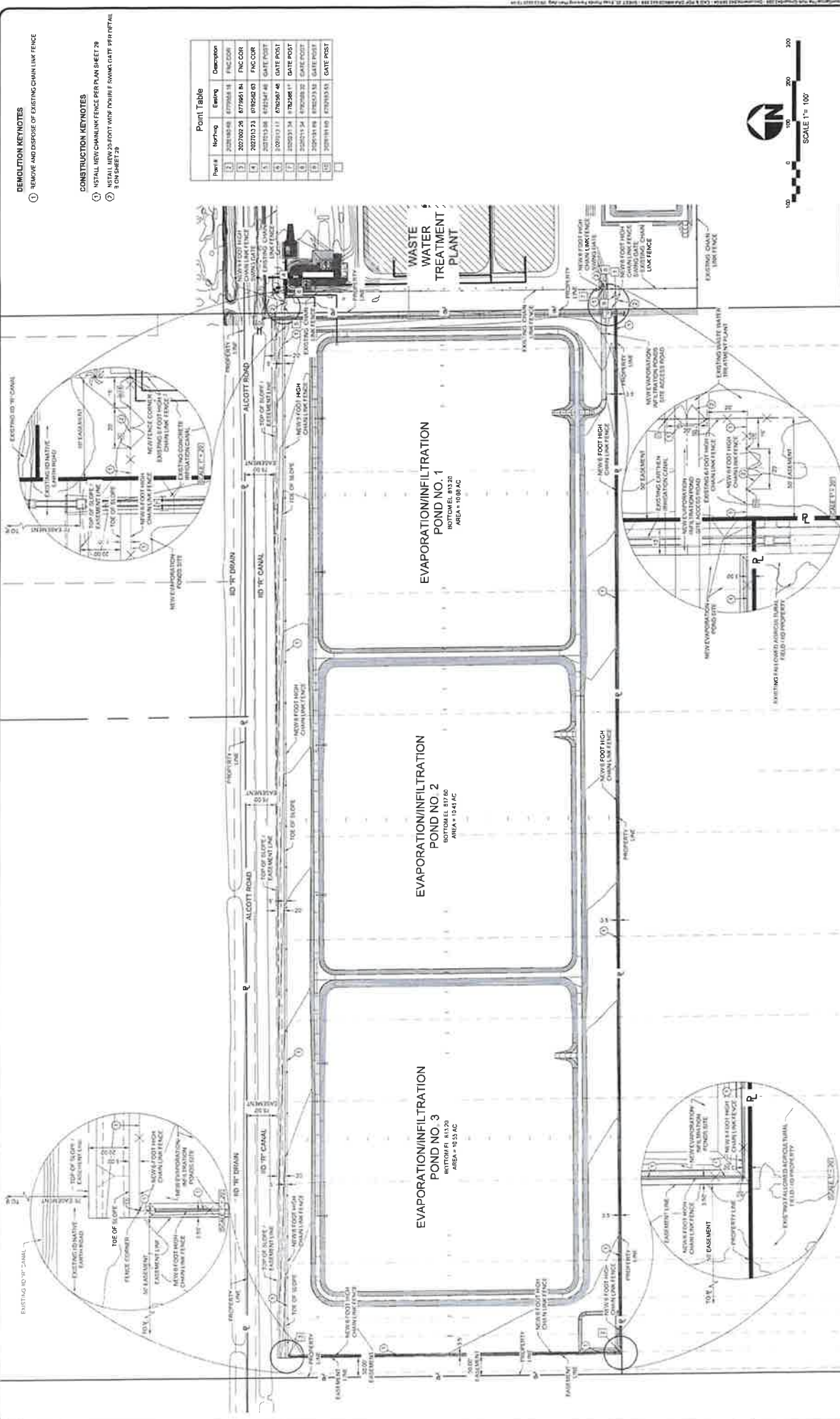
CC 15-17, 25/26

PROJECT FILE
MILANO COUNTY SANITATION DISTRICT - WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS
EVAPORATION/INFILTRATION POND
DETAILS
REFERENCE
SHEET 26 OF 50

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
EL CENTRO, CALIFORNIA
DATE: 10/19/13
BY: [Signature]

PREPARED UNDER THE DIRECT SUPERVISION OF
DATE: 09/22/2013
RES. EXP. [Signature]

REVISION	DATE	COMMENTS



DEMOLITION KEYNOTES

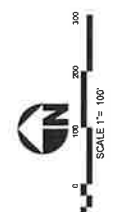
① REMOVE AND DISPOSE OF EXISTING CHAIN LINK FENCE




CONSTRUCTION KEYNOTES

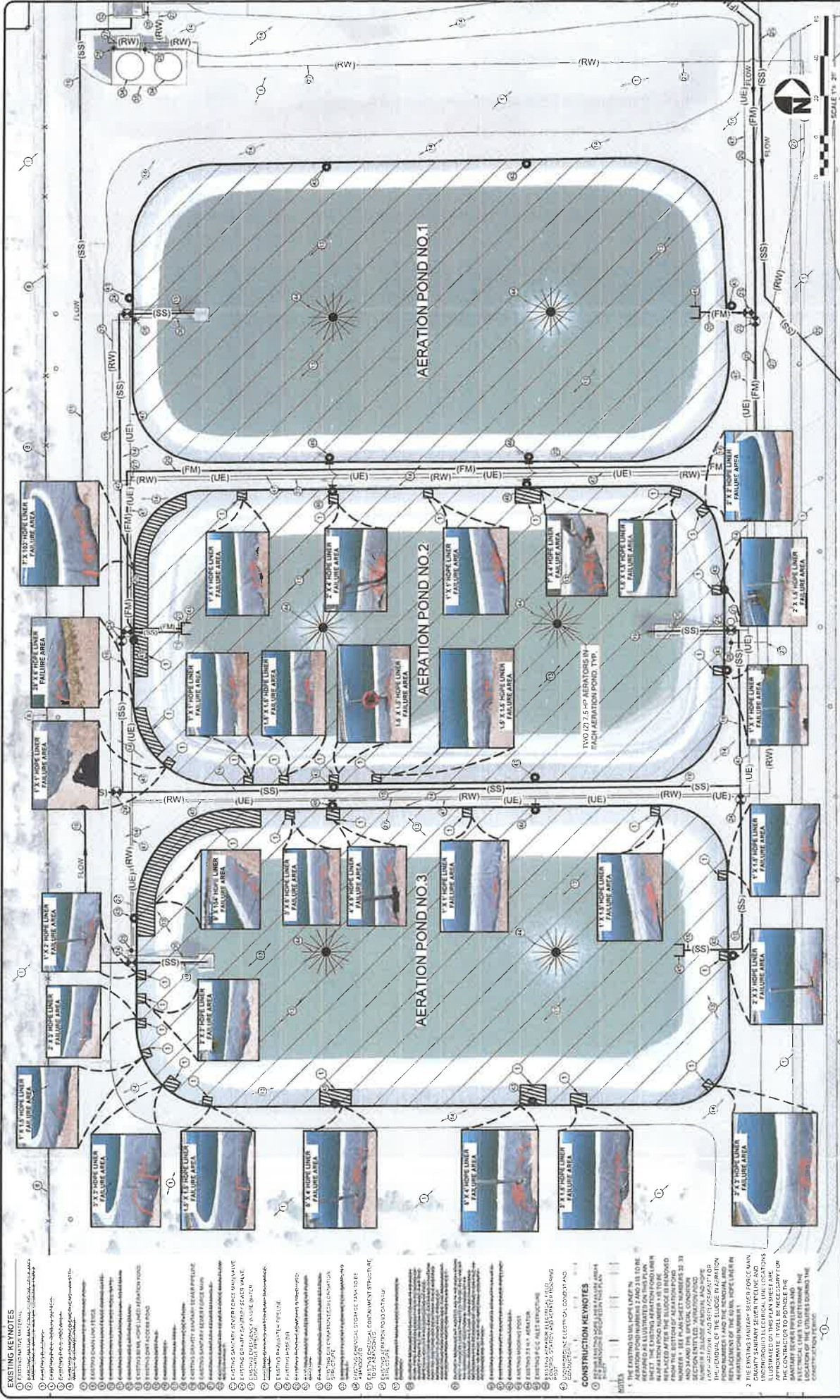
① INSTALL NEW CHAIN LINK FENCE PER PLAN SHEET 29

② INSTALL NEW 20 FOOT WIDE DOUBLE GATE SPAN FENCE PER PLAN SHEET 29 ON SHEET 29

Point #	Northing	Easting	Description
1	202183.08	877658.18	PNC COR
2	202180.28	877661.84	PNC COR
3	202183.23	879658.03	PNC COR
4	202183.58	879658.03	PNC COR
5	202183.58	879658.48	GATE POST
6	202183.13	879658.48	GATE POST
7	202183.24	879658.11	GATE POST
8	202183.24	879658.22	GATE POST
9	202183.89	879658.83	GATE POST
10	202183.89	879658.83	GATE POST

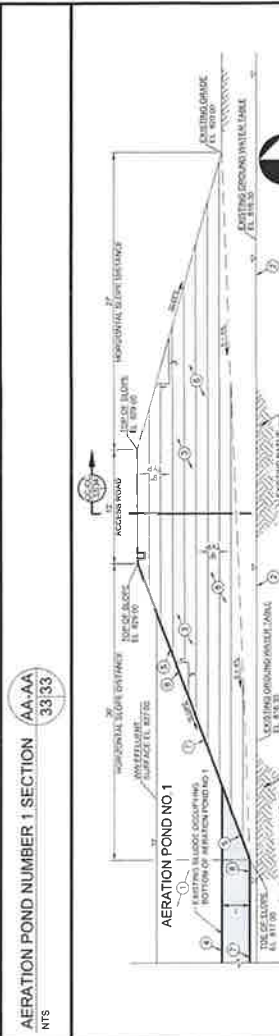
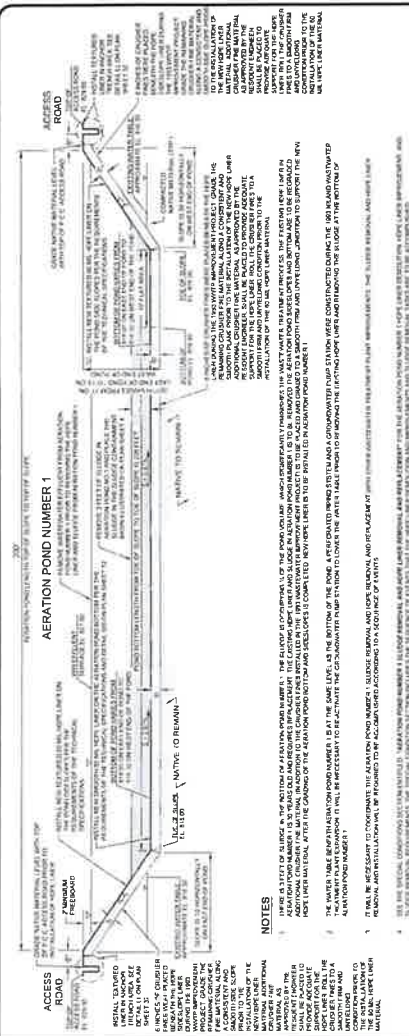


REVISION	DATE	COMMENTS
<p>PREPARED UNDER THE DIRECT SUPERVISION OF  JOSEPH J. HOLT REGISTERED PROFESSIONAL ENGINEER No. 42228 Exp. 8-30-25 STATE OF CALIFORNIA</p>		
<p>APPROVED FOR THE COUNTY OF IMPERIAL  DAVID A. P. SMITH DIRECTOR OF PUBLIC WORKS COUNTY OF IMPERIAL EL CENTRO, CALIFORNIA</p>		
<p>COUNTY OF IMPERIAL, PUBLIC WORKS DEPARTMENT APPROVED FOR THE COUNTY OF IMPERIAL  DAVID A. P. SMITH DIRECTOR OF PUBLIC WORKS COUNTY OF IMPERIAL EL CENTRO, CALIFORNIA</p>		
<p>COUNTY OF IMPERIAL EL CENTRO, CALIFORNIA</p>		
<p>PROJECT INFO COUNTY OF IMPERIAL WASTE WATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS EVAPORATION/INFILTRATION POND FENCING PLAN</p>		
REFERENCE	<p>THIS SHEET IS PART OF PROJECT NO. 28 OF 50</p>	



- EXISTING REMARKS**
- 1. EXISTING REMARKS
 - 2. EXISTING REMARKS
 - 3. EXISTING REMARKS
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 - 49. EXISTING REMARKS
 - 50. EXISTING REMARKS
- CONSTRUCTION REMARKS**
- 1. THE EXISTING HOPE LINER IN THE AERATION POND NO. 1 SHALL BE REPAIRED AS ILLUSTRATED ON THIS SHEET. THE EXISTING AERATION POND LINER SHALL BE REPAIRED AFTER THE SLUDGE IS REMOVED FROM THE BOTTOM OF AERATION POND NO. 1 AND THE LAYING CONDITION IS SATISFACTORY.
 - 2. THE EXISTING HOPE LINER IN THE AERATION POND NO. 2 SHALL BE REPAIRED AS ILLUSTRATED ON THIS SHEET. THE EXISTING AERATION POND LINER SHALL BE REPAIRED AFTER THE SLUDGE IS REMOVED FROM THE BOTTOM OF AERATION POND NO. 2 AND THE LAYING CONDITION IS SATISFACTORY.
 - 3. THE EXISTING HOPE LINER IN THE AERATION POND NO. 3 SHALL BE REPAIRED AS ILLUSTRATED ON THIS SHEET. THE EXISTING AERATION POND LINER SHALL BE REPAIRED AFTER THE SLUDGE IS REMOVED FROM THE BOTTOM OF AERATION POND NO. 3 AND THE LAYING CONDITION IS SATISFACTORY.

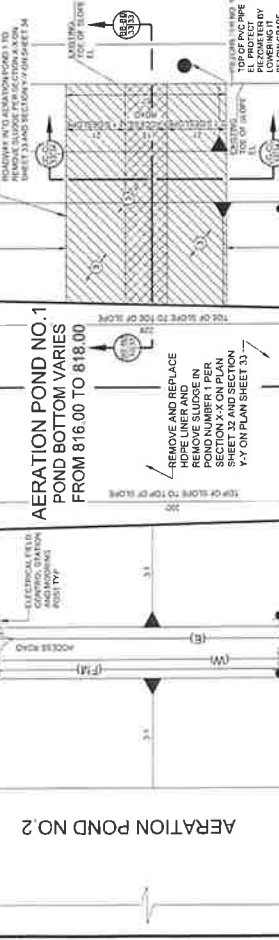
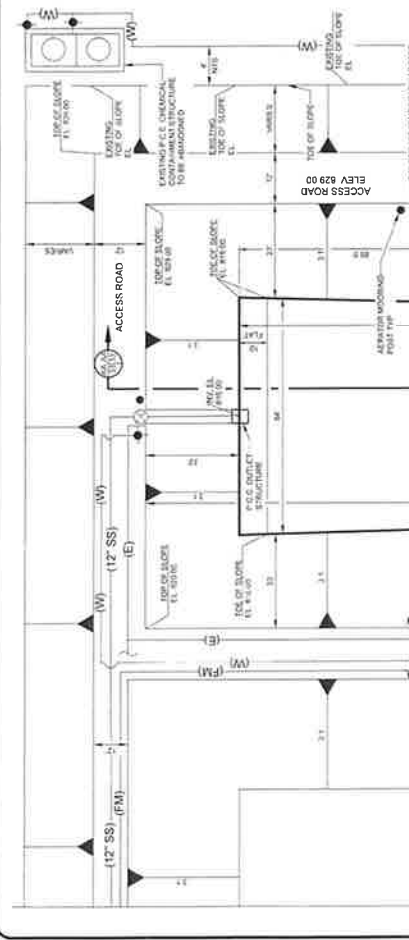
	 SCALE 1/4" = 1'-0"	COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT EL CENTRO, CALIFORNIA	COUNTY OF IMPERIAL WASTEWATER TREATMENT PLANT AND COLLECTION DISTRICT - WASTEWATER WARDEN'S IN TREATMENT AERATION POND HOPE LINER FAILURE NUMBER 1 SLUDGE REMOVAL AND LINER REPLACEMENT	SHEET 31 OF 50
COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT APPROVED FOR CONSTRUCTION BY:				
PREPARED UNDER THE DIRECT SUPERVISION OF:				
COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT				
DATE:				
REG. P.A.C.				
DATE:				
COMMENTS:				
REVISION	DATE	COMMENTS		



NOTES

- REMOVE THE EXISTING LINER AND REPLACE WITH NEW LINER. THE LINER SHALL BE 1/2" THICK HDPE WITH A TENSILE STRENGTH OF 100 PSI. THE LINER SHALL BE LAPPED AND OVERLAPPED BY A MINIMUM OF 12" WITH A MINIMUM OF 2" OVERLAP. THE LINER SHALL BE PROTECTED BY A 6" THICK LAYER OF SAND OR OTHER SOFT MATERIAL. THE LINER SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- REMOVE THE EXISTING SLUDGE REMOVAL SYSTEM AND REPLACE WITH NEW SYSTEM. THE NEW SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- REMOVE THE EXISTING ACCESS ROAD AND REPLACE WITH NEW ACCESS ROAD. THE NEW ACCESS ROAD SHALL BE 12" WIDE WITH A 4" THICK ASPHALT SURFACE. THE ACCESS ROAD SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- REMOVE THE EXISTING EMBANKMENT AND REPLACE WITH NEW EMBANKMENT. THE NEW EMBANKMENT SHALL BE 12" HIGH WITH A 4" THICK ASPHALT SURFACE. THE EMBANKMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- REMOVE THE EXISTING UTILITY LINES AND REPLACE WITH NEW UTILITY LINES. THE NEW UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT EL CENTRO, CALIFORNIA		PROJECT TITLE COUNTY OF IMPERIAL WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS AERATION POND NUMBER 1 HOPE LINER REMOVAL AND REPLACEMENT AND SLUDGE REMOVAL	
COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT APPROVED FOR CONSTRUCTION BY DIRECTOR OF PUBLIC WORKS	R.C.E. No. 06/0025 REG. EXP.	PROJECT NO. 12/194 REG. EXP.	SHEET NO. 33 OF 50



NOTES

- REMOVE THE EXISTING LINER AND REPLACE WITH NEW LINER. THE LINER SHALL BE 1/2" THICK HDPE WITH A TENSILE STRENGTH OF 100 PSI. THE LINER SHALL BE LAPPED AND OVERLAPPED BY A MINIMUM OF 12" WITH A MINIMUM OF 2" OVERLAP. THE LINER SHALL BE PROTECTED BY A 6" THICK LAYER OF SAND OR OTHER SOFT MATERIAL. THE LINER SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- REMOVE THE EXISTING SLUDGE REMOVAL SYSTEM AND REPLACE WITH NEW SYSTEM. THE NEW SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- REMOVE THE EXISTING ACCESS ROAD AND REPLACE WITH NEW ACCESS ROAD. THE NEW ACCESS ROAD SHALL BE 12" WIDE WITH A 4" THICK ASPHALT SURFACE. THE ACCESS ROAD SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- REMOVE THE EXISTING EMBANKMENT AND REPLACE WITH NEW EMBANKMENT. THE NEW EMBANKMENT SHALL BE 12" HIGH WITH A 4" THICK ASPHALT SURFACE. THE EMBANKMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- REMOVE THE EXISTING UTILITY LINES AND REPLACE WITH NEW UTILITY LINES. THE NEW UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

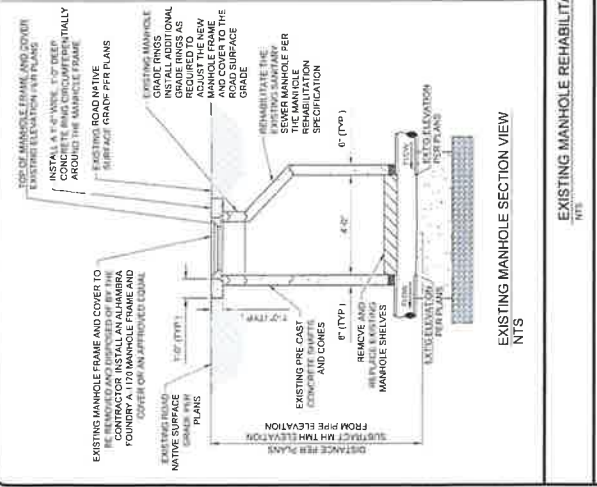
COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT EL CENTRO, CALIFORNIA		PROJECT TITLE COUNTY OF IMPERIAL WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS AERATION POND NUMBER 1 HOPE LINER REMOVAL AND REPLACEMENT AND SLUDGE REMOVAL	
COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT APPROVED FOR CONSTRUCTION BY DIRECTOR OF PUBLIC WORKS	R.C.E. No. 12/194 REG. EXP.	PROJECT NO. 12/194 REG. EXP.	SHEET NO. 33 OF 50

REVISION DATE COMMENTS	PREPARED UNDER THE DIRECT SUPERVISION OF ENGINEER DATE 06/20/23	PROJECT NO. 12/194 REG. EXP.	SHEET NO. 33 OF 50
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EXISTING MANHOLE REHABILITATION SPECIFICATION

THE INTERIOR OF THE EXISTING MANHOLE SHIRT SPOUNES, CONC AND GRADE RINGS SHALL BE WIDENED AND THE WALL SURFACES REPAIRED PRIOR TO THE INSTALLATION OF A HIGH STRENGTH FIBER GLASS REINFORCED MANHOLE RING AND COVER TO THE EXISTING MANHOLE GRADE. AS REQUIRED, A NEW MANHOLE FRAME AND COVER WITH A MANHOLE RING AND COVER SHALL BE INSTALLED TO THE EXISTING MANHOLE GRADE. THE NEW MANHOLE RING AND COVER SHALL BE REPLACED AT THE BOTTOM OF THE MANHOLE TO MAINTAIN THE EXISTING MANHOLE RINGS TO BE COMPLETED.

1. PRIOR TO COMMENCING WORK THE CONTRACTOR SHALL ENSURE THAT THE EXISTING WASTEWATER FLOW THROUGH THE MANHOLE IS UNIMPACTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WASTEWATER FLOW THROUGH THE MANHOLE DURING THE REHABILITATION PROCESS. THE CONTRACTOR SHALL MAINTAIN WASTEWATER FLOW THROUGH THE MANHOLE REHABILITATION EFFORT. THE CONTRACTOR SHALL ALSO PROVIDE PROPER EQUIPMENT TO COMPLETE THE REHABILITATION WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WASTEWATER FLOW THROUGH THE MANHOLE DURING THE REHABILITATION PROCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WASTEWATER FLOW THROUGH THE MANHOLE DURING THE REHABILITATION PROCESS.
2. THE CONTRACTOR SHALL ERECT BARRELS AROUND THE MANHOLE TO INSURE PEDESTRIANS OR VEHICLES TRAFFIC DOES NOT ENTER THE MANHOLE REHABILITATION AREA.
3. THE FINISH WITH REPAIR CONCRETE MANHOLE SHIRT, CONC AND GRADE RINGS SURFACES SHALL BE FINISHED TO THE EXISTING MANHOLE GRADE AND APPROVED BY THE ENGINEER. A PRELIMINARY CONSULTATION MAY BE USED TO REMOVE OR REPAIR CONCRETE FROM ISOLATED AREAS WITHIN THE MANHOLE INTERIOR.
4. AFTER THE INTERIOR MANHOLE WALL SURFACES ARE CLEANED, LOCALIZED REPAIRS SHALL BE PERFORMED USING REPAIR EPOXY FOR Voids AND DEFERRED SURFACES AND TO REPAIR THE UNDERLYING MANHOLE STRUCTURE TO A MINIMUM OF 100% OF THE ORIGINAL STRENGTH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WASTEWATER FLOW THROUGH THE MANHOLE DURING THE REHABILITATION PROCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WASTEWATER FLOW THROUGH THE MANHOLE DURING THE REHABILITATION PROCESS.
5. A HIGH STRENGTH FIBER GLASS REINFORCED MANHOLE RING AND COVER SHALL BE INSTALLED TO THE EXISTING MANHOLE GRADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WASTEWATER FLOW THROUGH THE MANHOLE DURING THE REHABILITATION PROCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WASTEWATER FLOW THROUGH THE MANHOLE DURING THE REHABILITATION PROCESS.
6. THE CONTRACTOR SHALL ERECT BARRELS AROUND THE MANHOLE TO INSURE PEDESTRIANS OR VEHICLES TRAFFIC DOES NOT ENTER THE MANHOLE REHABILITATION AREA.
7. AFTER THE FINISH WITH REPAIR CONCRETE MANHOLE SHIRT, CONC AND GRADE RINGS SURFACES SHALL BE FINISHED TO THE EXISTING MANHOLE GRADE AND APPROVED BY THE ENGINEER. A PRELIMINARY CONSULTATION MAY BE USED TO REMOVE OR REPAIR CONCRETE FROM ISOLATED AREAS WITHIN THE MANHOLE INTERIOR.
8. METALLIC CONCRETE MANHOLE COVER AND GREGGITE RINGS AROUND THE MANHOLE COVER AS SUBSTITUTED ON THE MANHOLE COVER SHALL BE INSTALLED TO THE EXISTING MANHOLE GRADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WASTEWATER FLOW THROUGH THE MANHOLE DURING THE REHABILITATION PROCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WASTEWATER FLOW THROUGH THE MANHOLE DURING THE REHABILITATION PROCESS.
9. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AGENCIES AND THE PUBLIC WORKS DEPARTMENT OF IMPERIAL COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WASTEWATER FLOW THROUGH THE MANHOLE DURING THE REHABILITATION PROCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WASTEWATER FLOW THROUGH THE MANHOLE DURING THE REHABILITATION PROCESS.



EXISTING MANHOLE REHABILITATION DETAIL

NOTE: SEE SPECIFICATIONS FOR MATERIALS AND CONSTRUCTION DETAILS.

REVISION	DATE	COMMENTS

<p>PUBLIC WORKS DEPARTMENT COUNTY OF IMPERIAL EL CENTRO, CALIFORNIA</p>		<p>PROJECT TITLE INLAND COUNTY DISTRICT - WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS</p>
<p>DATE 09/25/2023</p>	<p>BY RS</p>	<p>REFERENCE SHEET 40 OF 50</p>

<p>COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT APPROVED FOR CONSTRUCTION BY [Signature] DIRECTOR OF PUBLIC WORKS DATE: 10/11/23</p>	<p>REG. EXP. 09/30/26</p>
--	---------------------------

<p>PREPARED UNDER THE DIRECT SUPERVISION OF [Signature] DATE: 09/25/2023</p>	<p>REG. EXP. 12/31/24</p>
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<p>REG. EXP. 09/30/26</p>	<p>REG. EXP. 12/31/24</p>
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SEE ABOVE RIGHT FOR MATCHLINE



SEE BELOW LEFT FOR MATCHLINE

KEYNOTES

- 1 YIELD
- 2 TO CHANGING TRAFFIC R1-2aP
- 3
- 4 ONE LANE ROAD AHEAD W20-4
- 5 ROAD WORK AHEAD
- 6 ROAD WORK AHEAD W20-1
- 7 END ROAD WORK G20-2a (OPTIONAL)
- W1-4R
- W3-2a

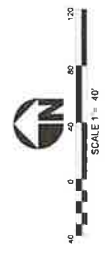
LEGEND

- TYPE III BARRICADE
- TTC SIGN
- CONE
- WORK AREA

NOTE: BASED ON MODIFIED TA-11 FROM CALIFORNIA MUTCD (LANE CLOSURE ON A TWO-LANE ROAD WITH LOW TRAFFIC VOLUMES.)

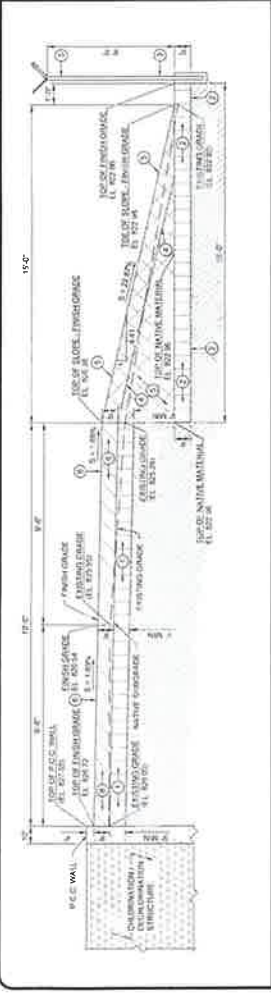
THIS TEMPORARY TRAFFIC CONTROL CONFIGURATION WILL BE USED FOR THE REMAINING IMPROVEMENTS TO THE SANITARY SEWER MANHOLES WITHIN THE SCOPE OF WORK.

SIGNAL LIGHTS TO BE TEMPORARILY SET TO FLASH RED DURING CONSTRUCTION TIME FRAME COORDINATE WITH COUNTY PUBLIC WORKS FIELD OPERATIONS REPRESENTATIVES. MINIMUM TWO DAYS (48 HOURS) PRIOR TO START OF WORK.



REVISION	DATE	COMMENTS

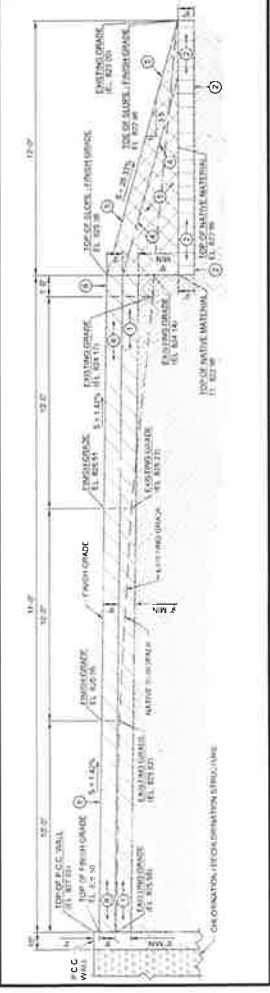
		COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT EL CENTRO, CALIFORNIA
COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT APPROVED FOR CONSTRUCTION BY [Signature] DIRECTOR OF PUBLIC WORKS DATE: 1-19-23	PROJECT FILE # COUNTY OF IMPERIAL IMPERIAL COUNTY SANITATION DISTRICT - WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS	REFERENCE SHEET 41 OF 50



H-H
6.44
CHLORINATION / DECHLORINATION BASIN WEST-SIDE, SOUTH-FACING GRADING SECTION
SCALE 1/2" = 1'



H-H
6.44
CHLORINATION / DECHLORINATION BASIN EAST-SIDE, NORTH-FACING GRADING SECTION
SCALE 1/2" = 1'



J-J
6.44
CHLORINATION / DECHLORINATION BASIN NORTH-SIDE, WEST-FACING GRADING SECTION
SCALE 1/2" = 1'

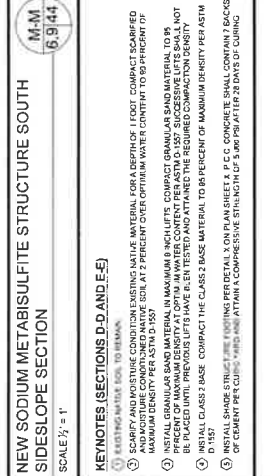
KEYNOTES (SECTIONS H-H, H-H AND J-J)

- SCARP AND COMPACT THE EXISTING NATIVE MATERIAL FOR A MINIMUM OF 12 INCHES AND ADDITIONAL NATIVE MATERIAL AS REQUIRED TO ESTABLISH THE NATIVE FINISH GRADE 9 INCHES BELOW THE FINISH GRADE BETWEEN THE CHLORINATION/DECHLORINATION BASIN AND THE TOP OF SLOPE. COMPACT THE EXISTING NATIVE MATERIAL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D 1557.
- GRADE SCARP AND COMPACT THE NATIVE MATERIAL FOR A DEPTH OF 12 INCHES TO AN ELEVATION OF 107.31 FEET FOR A DISTANCE OF 10 FEET AS ILLUSTRATED ON THE PLANS.
- ACTIVITIES TO BE COMPLETED PRIOR TO CONSTRUCTION SHALL BE RESPONSIBLE TO REFACE ANY EXISTING SLOPE WITH A FINISH GRADE OF 1:2.5. THE CHLORINATION/DECHLORINATION BASIN SHALL BE CONSTRUCTED AT THE FINISH GRADE AS ILLUSTRATED ON THE PLANS.
- CONSTRUCTION OF THE BASIN SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF THE SLOPE GRADING.
- EXISTING NATIVE MATERIAL SHALL BE REMOVED TO AN ELEVATION OF 107.31 FEET. THE NATIVE MATERIAL 18 INCH (1 FT) COMPACT THE FINISH GRADE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D 1557. THE FINISH GRADE SHALL BE CONSTRUCTED AT A SLOPE OF 4:1.
- INSTALL 6 INCHES OF CLASS 3 BASE UNDER NATIVE MATERIAL, COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D 1557.

REVISION	DATE	COMMENTS



M-M
6.9/44
NEW SODIUM METABISULFITE STRUCTURE SOUTH
SLOPE SECTION
SCALE 1/2" = 1'

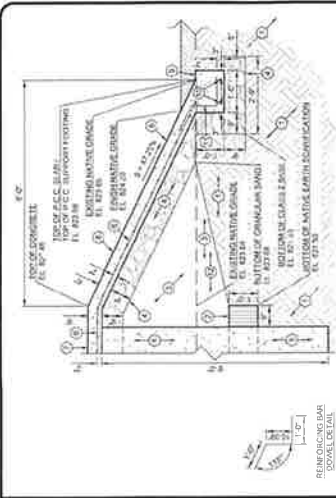


N-N
6.9/44
NEW SODIUM METABISULFITE STRUCTURE NORTH
SLOPE SECTION
SCALE 1/2" = 1'

KEYNOTES (SECTIONS D-D AND E-E)

- SCARP AND COMPACT THE EXISTING NATIVE MATERIAL FOR A DEPTH OF 12 INCHES AND ADDITIONAL NATIVE MATERIAL AS REQUIRED TO ESTABLISH THE NATIVE FINISH GRADE 9 INCHES BELOW THE FINISH GRADE BETWEEN THE CHLORINATION/DECHLORINATION BASIN AND THE TOP OF SLOPE. COMPACT THE EXISTING NATIVE MATERIAL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D 1557.
- GRADE SCARP AND COMPACT THE NATIVE MATERIAL FOR A DEPTH OF 12 INCHES TO AN ELEVATION OF 107.31 FEET FOR A DISTANCE OF 10 FEET AS ILLUSTRATED ON THE PLANS.
- ACTIVITIES TO BE COMPLETED PRIOR TO CONSTRUCTION SHALL BE RESPONSIBLE TO REFACE ANY EXISTING SLOPE WITH A FINISH GRADE OF 1:2.5. THE CHLORINATION/DECHLORINATION BASIN SHALL BE CONSTRUCTED AT THE FINISH GRADE AS ILLUSTRATED ON THE PLANS.
- CONSTRUCTION OF THE BASIN SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF THE SLOPE GRADING.
- EXISTING NATIVE MATERIAL SHALL BE REMOVED TO AN ELEVATION OF 107.31 FEET. THE NATIVE MATERIAL 18 INCH (1 FT) COMPACT THE FINISH GRADE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D 1557. THE FINISH GRADE SHALL BE CONSTRUCTED AT A SLOPE OF 4:1.
- INSTALL 6 INCHES OF CLASS 3 BASE UNDER NATIVE MATERIAL, COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D 1557.

REVISION	DATE	COMMENTS



KEYNOTES (SECTIONS D-D AND E-E)

- SCARP AND COMPACT THE EXISTING NATIVE MATERIAL FOR A DEPTH OF 12 INCHES AND ADDITIONAL NATIVE MATERIAL AS REQUIRED TO ESTABLISH THE NATIVE FINISH GRADE 9 INCHES BELOW THE FINISH GRADE BETWEEN THE CHLORINATION/DECHLORINATION BASIN AND THE TOP OF SLOPE. COMPACT THE EXISTING NATIVE MATERIAL TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D 1557.
- GRADE SCARP AND COMPACT THE NATIVE MATERIAL FOR A DEPTH OF 12 INCHES TO AN ELEVATION OF 107.31 FEET FOR A DISTANCE OF 10 FEET AS ILLUSTRATED ON THE PLANS.
- ACTIVITIES TO BE COMPLETED PRIOR TO CONSTRUCTION SHALL BE RESPONSIBLE TO REFACE ANY EXISTING SLOPE WITH A FINISH GRADE OF 1:2.5. THE CHLORINATION/DECHLORINATION BASIN SHALL BE CONSTRUCTED AT THE FINISH GRADE AS ILLUSTRATED ON THE PLANS.
- CONSTRUCTION OF THE BASIN SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF THE SLOPE GRADING.
- EXISTING NATIVE MATERIAL SHALL BE REMOVED TO AN ELEVATION OF 107.31 FEET. THE NATIVE MATERIAL 18 INCH (1 FT) COMPACT THE FINISH GRADE TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D 1557. THE FINISH GRADE SHALL BE CONSTRUCTED AT A SLOPE OF 4:1.
- INSTALL 6 INCHES OF CLASS 3 BASE UNDER NATIVE MATERIAL, COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D 1557.

REVISION	DATE	COMMENTS

PROJECT TITLE
 COUNTY OF IMPERIAL - WASTEWATER
 TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF
 JAMES G. HOLT
 DATE 06/22/03

APPROVED
 JAMES G. HOLT
 DATE 06/22/03

DESIGNED BY
 JAMES G. HOLT
 DATE 06/22/03

CHECKED BY
 JAMES G. HOLT
 DATE 06/22/03

PROJECT NO.
 060205

REG. EXP.
 06/22/03

PUBLIC WORKS DEPARTMENT
 COUNTY OF IMPERIAL
 EL CENTRO, CALIFORNIA

MISCELLANEOUS DETAIL SHEET

THICKNESS
 44 OF 50



- KEYNOTES**
- 1 REMOVE EXISTING NATIVE MATERIAL TO DESIGN SUBGRADE ELEVATION. NATIVE EARTH SHALL BE USED AS FILL FOR OTHER PROJECT IMPROVEMENTS OR REMOVED AND DISPOSED OF FROM THE PROJECT SITE.
 - 2 SCARIFY AND COMPACT NATIVE MATERIAL TO DESIGN SUBGRADE GRADE FOR A DEPTH OF 12 INCHES AT 80 PERCENT OF MAXIMUM DENSITY AT ONE TON PER FOOT PER AXLE (1-107).
 - 3 PLACE 4 INCHES OF CLASS 2 BASE COURSE ESTABLISHED BY THE GRADE/CHASE ELEVATIONS 14.6, 15.0, 15.4, 15.8, 16.2, 16.6, 17.0, 17.4, 17.8, 18.2, 18.6, 19.0, 19.4, 19.8, 20.2, 20.6, 21.0, 21.4, 21.8, 22.2, 22.6, 23.0, 23.4, 23.8, 24.2, 24.6, 25.0, 25.4, 25.8, 26.2, 26.6, 27.0, 27.4, 27.8, 28.2, 28.6, 29.0, 29.4, 29.8, 30.2, 30.6, 31.0, 31.4, 31.8, 32.2, 32.6, 33.0, 33.4, 33.8, 34.2, 34.6, 35.0, 35.4, 35.8, 36.2, 36.6, 37.0, 37.4, 37.8, 38.2, 38.6, 39.0, 39.4, 39.8, 40.2, 40.6, 41.0, 41.4, 41.8, 42.2, 42.6, 43.0, 43.4, 43.8, 44.2, 44.6, 45.0, 45.4, 45.8, 46.2, 46.6, 47.0, 47.4, 47.8, 48.2, 48.6, 49.0, 49.4, 49.8, 50.2, 50.6, 51.0, 51.4, 51.8, 52.2, 52.6, 53.0, 53.4, 53.8, 54.2, 54.6, 55.0, 55.4, 55.8, 56.2, 56.6, 57.0, 57.4, 57.8, 58.2, 58.6, 59.0, 59.4, 59.8, 60.2, 60.6, 61.0, 61.4, 61.8, 62.2, 62.6, 63.0, 63.4, 63.8, 64.2, 64.6, 65.0, 65.4, 65.8, 66.2, 66.6, 67.0, 67.4, 67.8, 68.2, 68.6, 69.0, 69.4, 69.8, 70.2, 70.6, 71.0, 71.4, 71.8, 72.2, 72.6, 73.0, 73.4, 73.8, 74.2, 74.6, 75.0, 75.4, 75.8, 76.2, 76.6, 77.0, 77.4, 77.8, 78.2, 78.6, 79.0, 79.4, 79.8, 80.2, 80.6, 81.0, 81.4, 81.8, 82.2, 82.6, 83.0, 83.4, 83.8, 84.2, 84.6, 85.0, 85.4, 85.8, 86.2, 86.6, 87.0, 87.4, 87.8, 88.2, 88.6, 89.0, 89.4, 89.8, 90.2, 90.6, 91.0, 91.4, 91.8, 92.2, 92.6, 93.0, 93.4, 93.8, 94.2, 94.6, 95.0, 95.4, 95.8, 96.2, 96.6, 97.0, 97.4, 97.8, 98.2, 98.6, 99.0, 99.4, 99.8, 100.2, 100.6, 101.0, 101.4, 101.8, 102.2, 102.6, 103.0, 103.4, 103.8, 104.2, 104.6, 105.0, 105.4, 105.8, 106.2, 106.6, 107.0, 107.4, 107.8, 108.2, 108.6, 109.0, 109.4, 109.8, 110.2, 110.6, 111.0, 111.4, 111.8, 112.2, 112.6, 113.0, 113.4, 113.8, 114.2, 114.6, 115.0, 115.4, 115.8, 116.2, 116.6, 117.0, 117.4, 117.8, 118.2, 118.6, 119.0, 119.4, 119.8, 120.2, 120.6, 121.0, 121.4, 121.8, 122.2, 122.6, 123.0, 123.4, 123.8, 124.2, 124.6, 125.0, 125.4, 125.8, 126.2, 126.6, 127.0, 127.4, 127.8, 128.2, 128.6, 129.0, 129.4, 129.8, 130.2, 130.6, 131.0, 131.4, 131.8, 132.2, 132.6, 133.0, 133.4, 133.8, 134.2, 134.6, 135.0, 135.4, 135.8, 136.2, 136.6, 137.0, 137.4, 137.8, 138.2, 138.6, 139.0, 139.4, 139.8, 140.2, 140.6, 141.0, 141.4, 141.8, 142.2, 142.6, 143.0, 143.4, 143.8, 144.2, 144.6, 145.0, 145.4, 145.8, 146.2, 146.6, 147.0, 147.4, 147.8, 148.2, 148.6, 149.0, 149.4, 149.8, 150.2, 150.6, 151.0, 151.4, 151.8, 152.2, 152.6, 153.0, 153.4, 153.8, 154.2, 154.6, 155.0, 155.4, 155.8, 156.2, 156.6, 157.0, 157.4, 157.8, 158.2, 158.6, 159.0, 159.4, 159.8, 160.2, 160.6, 161.0, 161.4, 161.8, 162.2, 162.6, 163.0, 163.4, 163.8, 164.2, 164.6, 165.0, 165.4, 165.8, 166.2, 166.6, 167.0, 167.4, 167.8, 168.2, 168.6, 169.0, 169.4, 169.8, 170.2, 170.6, 171.0, 171.4, 171.8, 172.2, 172.6, 173.0, 173.4, 173.8, 174.2, 174.6, 175.0, 175.4, 175.8, 176.2, 176.6, 177.0, 177.4, 177.8, 178.2, 178.6, 179.0, 179.4, 179.8, 180.2, 180.6, 181.0, 181.4, 181.8, 182.2, 182.6, 183.0, 183.4, 183.8, 184.2, 184.6, 185.0, 185.4, 185.8, 186.2, 186.6, 187.0, 187.4, 187.8, 188.2, 188.6, 189.0, 189.4, 189.8, 190.2, 190.6, 191.0, 191.4, 191.8, 192.2, 192.6, 193.0, 193.4, 193.8, 194.2, 194.6, 195.0, 195.4, 195.8, 196.2, 196.6, 197.0, 197.4, 197.8, 198.2, 198.6, 199.0, 199.4, 199.8, 200.2, 200.6, 201.0, 201.4, 201.8, 202.2, 202.6, 203.0, 203.4, 203.8, 204.2, 204.6, 205.0, 205.4, 205.8, 206.2, 206.6, 207.0, 207.4, 207.8, 208.2, 208.6, 209.0, 209.4, 209.8, 210.2, 210.6, 211.0, 211.4, 211.8, 212.2, 212.6, 213.0, 213.4, 213.8, 214.2, 214.6, 215.0, 215.4, 215.8, 216.2, 216.6, 217.0, 217.4, 217.8, 218.2, 218.6, 219.0, 219.4, 219.8, 220.2, 220.6, 221.0, 221.4, 221.8, 222.2, 222.6, 223.0, 223.4, 223.8, 224.2, 224.6, 225.0, 225.4, 225.8, 226.2, 226.6, 227.0, 227.4, 227.8, 228.2, 228.6, 229.0, 229.4, 229.8, 230.2, 230.6, 231.0, 231.4, 231.8, 232.2, 232.6, 233.0, 233.4, 233.8, 234.2, 234.6, 235.0, 235.4, 235.8, 236.2, 236.6, 237.0, 237.4, 237.8, 238.2, 238.6, 239.0, 239.4, 239.8, 240.2, 240.6, 241.0, 241.4, 241.8, 242.2, 242.6, 243.0, 243.4, 243.8, 244.2, 244.6, 245.0, 245.4, 245.8, 246.2, 246.6, 247.0, 247.4, 247.8, 248.2, 248.6, 249.0, 249.4, 249.8, 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479.0, 479.4, 479.8, 480.2, 480.6, 481.0, 481.4, 481.8, 482.2, 482.6, 483.0, 483.4, 483.8, 484.2, 484.6, 485.0, 485.4, 485.8, 486.2, 486.6, 487.0, 487.4, 487.8, 488.2, 488.6, 489.0, 489.4, 489.8, 490.2, 490.6, 491.0, 491.4, 491.8, 492.2, 492.6, 493.0, 493.4, 493.8, 494.2, 494.6, 495.0, 495.4, 495.8, 496.2, 496.6, 497.0, 497.4, 497.8, 498.2, 498.6, 499.0, 499.4, 499.8, 500.2, 500.6, 501.0, 501.4, 501.8, 502.2, 502.6, 503.0, 503.4, 503.8, 504.2, 504.6, 505.0, 505.4, 505.8, 506.2, 506.6, 507.0, 507.4, 507.8, 508.2, 508.6, 509.0, 509.4, 509.8, 510.2, 510.6, 511.0, 511.4, 511.8, 512.2, 512.6, 513.0, 513.4, 513.8, 514.2, 514.6, 515.0, 515.4, 515.8, 516.2, 516.6, 517.0, 517.4, 517.8, 518.2, 518.6, 519.0, 519.4, 519.8, 520.2, 520.6, 521.0, 521.4, 521.8, 522.2, 522.6, 523.0, 523.4, 523.8, 524.2, 524.6, 525.0, 525.4, 525.8, 526.2, 526.6, 527.0, 527.4, 527.8, 528.2, 528.6, 529.0, 529.4, 529.8, 530.2, 530.6, 531.0, 531.4, 531.8, 532.2, 532.6, 533.0, 533.4, 533.8, 534.2, 534.6, 535.0, 535.4, 535.8, 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593.4, 593.8, 594.2, 594.6, 595.0, 595.4, 595.8, 596.2, 596.6, 597.0, 597.4, 597.8, 598.2, 598.6, 599.0, 599.4, 599.8, 600.2, 600.6, 601.0, 601.4, 601.8, 602.2, 602.6, 603.0, 603.4, 603.8, 604.2, 604.6, 605.0, 605.4, 605.8, 606.2, 606.6, 607.0, 607.4, 607.8, 608.2, 608.6, 609.0, 609.4, 609.8, 610.2, 610.6, 611.0, 611.4, 611.8, 612.2, 612.6, 613.0, 613.4, 613.8, 614.2, 614.6, 615.0, 615.4, 615.8, 616.2, 616.6, 617.0, 617.4, 617.8, 618.2, 618.6, 619.0, 619.4, 619.8, 620.2, 620.6, 621.0, 621.4, 621.8, 622.2, 622.6, 623.0, 623.4, 623.8, 624.2, 624.6, 625.0, 625.4, 625.8, 626.2, 626.6, 627.0, 627.4, 627.8, 628.2, 628.6, 629.0, 629.4, 629.8, 630.2, 630.6, 631.0, 631.4, 631.8, 632.2, 632.6, 633.0, 633.4, 633.8, 634.2, 634.6, 635.0, 635.4, 635.8, 636.2, 636.6, 637.0, 637.4, 637.8, 638.2, 638.6, 639.0, 639.4, 639.8, 640.2, 640.6, 641.0, 641.4, 641.8, 642.2, 642.6, 643.0, 643.4, 643.8, 644.2, 644.6, 645.0, 645.4, 645.8, 646.2, 646.6, 647.0, 647.4, 647.8, 648.2, 648.6, 649.0, 649.4, 649.8, 650.2, 650.6, 651.0, 651.4, 651.8, 652.2, 652.6, 653.0, 653.4, 653.8, 654.2, 654.6, 655.0, 655.4, 655.8, 656.2, 656.6, 657.0, 657.4, 657.8, 658.2, 658.6, 659.0, 659.4, 659.8, 660.2, 660.6, 661.0, 661.4, 661.8, 662.2, 662.6, 663.0, 663.4, 663.8, 664.2, 664.6, 665.0, 665.4, 665.8, 666.2, 666.6, 667.0, 667.4, 667.8, 668.2, 668.6, 669.0, 669.4, 669.8, 670.2, 670.6, 671.0, 671.4, 671.8, 672.2, 672.6, 673.0, 673.4, 673.8, 674.2, 674.6, 675.0, 675.4, 675.8, 676.2, 676.6, 677.0, 677.4, 677.8, 678.2, 678.6, 679.0, 679.4, 679.8, 680.2, 680.6, 681.0, 681.4, 681.8, 682.2, 682.6, 683.0, 683.4, 683.8, 684.2, 684.6, 685.0, 685.4, 685.8, 686.2, 686.6, 687.0, 687.4, 687.8, 688.2, 688.6, 689.0, 689.4, 689.8, 690.2, 690.6, 691.0, 691.4, 691.8, 692.2, 692.6, 693.0, 693.4, 693.8, 694.2, 694.6, 695.0, 695.4, 695.8, 696.2, 696.6, 697.0, 697.4, 697.8, 698.2, 698.6, 699.0, 699.4, 699.8, 700.2, 700.6, 701.0, 701.4, 701.8, 702.2, 702.6, 703.0, 703.4, 703.8, 704.2, 704.6, 705.0, 705.4, 705.8, 706.2, 706.6, 707.0, 707.4, 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