Attachment 3

Design Drawings
ALTERNATIVE 1 (OLD ALTERNATIVE 5)
CROSSING #1
CROSSING #3
DAN MCNAMARA RD
Bridge abutment

Drilled Piles for bridge deck piers,
14 rows of 7 staggered piers at 110' O.C.

PLAN

SCALE OF FEET

DETAIL 1

SCALE OF FEET

Dan McNamara

RECLAMATION

FIGURE 1-5
SHEET 1 OF 2
**SECTION A-A**

**EL NIDO ROAD BRIDGE CENTERLINE**

- Bridge piers, not shown for clarity
- Bridge girders, not shown for clarity
- 24" drilled piles for bridge deck footing at 6" O.C.
- Gravel piles in clay, El. 24.5'
- Dan McNamara Road bridge, El. 109.0'
- Dan McNamara Road precast concrete bridge girders
- New abutment, El. 102.75'

**SECTION B-B**

**DAN McNAMARA ROAD BRIDGE ABUTMENT**

- Abutment footing, El. 102.75'
- Bridge girders, not shown for clarity
- 24" drilled piles for abutment footing at 6" O.C.
- Gravel piles in clay, El. 24.5'
- Dan McNamara Road bridge, El. 109.0'
- Dan McNamara Road precast concrete bridge girders
- New abutment, El. 102.75'

**SECTION C-C**

**DAN McNAMARA ROAD BRIDGE PIERS**

- Bridge girders, not shown for clarity
- 24" drilled piles for bridge deck footing, 7 piles staggered, see detail 7
- Dan McNamara Road bridge, El. 84.0'

**Figures 1-5**

**Sheet 2 of 2**
Bridge abutment - Ramp to existing grade

PLAN

EL NIDO ROAD BRIDGE PROFILE

SECTION A-A

El Nido Road Bridge

New Reach 4B invert at El: 93.0'

14 spaces @ 118' = 1540'

Piers for bridge deck piers, 15 rows of 7 piers staggered

Bridge abutment

Culverts for bridge deck piers, 15 rows of 7 piers staggered

Minimum El: 83.5'

FIGURE 1-3
W EL NIDO RD
SECTION 8-8 ABUTMENT

Bridge girders, not shown for clarity.

Abutment headwall, 1' more.

Drilled piers to min. El. 62.0'.

SECTION C-C BRIDGE DECK PIERS

Drilled piers for bridge deck footing, 7 piers staggered, see Detail 1.

SECTION B-B ABUTMENT

WEB beam girders.

Compacted reading embankment.

New reach at invert at El. 45.0'.

SECTION C-C BRIDGE DECK PIERS

Drilled piers for bridge deck footing, 7 piers staggered, see Detail 1.

Drill piers to El. 62.0'.

DETAIL 1

Brick deck foundation plane.

El. 62.0'.

El. 45.0'.

NEW DRAWING 48 INVERT EL. 93.0'.

New bridge deck footing, 7 piers staggered, see Detail 1.

Drill piers to El. 62.0'.

SEE DETAIL 1
Match existing elevations (Figure 6-1)

Ramp to River Headworks bridge

Drilled pile for bridge deck piers

Bridge abutment side wall

Abutment footing (EL 94.0')

Compacted backfill

Cutoff wall for slope wall footing, typical of 7 piers

Drilled piles for bridge deck piers, min tip EL 94.0'

Section A-A

Headworks Bridge Centerline

PLAN

SCALE OF FEET

River Headworks bridge deck EL 117.0'

OUT River Headworks bridge

Abutment

MATCH existing abutment

Abutment footing (EL 94.0')

Compacted backfill

Match existing}

SECTION A-A
SAND SLOUGH CONTROL STRUCTURE
Pneumatic control lines, Typ. steel w/stiffeners

1'-0"

PVC conduit ~ (qty. varies)

Pneumatic control lines

Figure 1-1

Note:
1. Concrete/stone building to masonry w/steel roof; 10' tall.
ALTERNATIVE 2 (OLD ALTERNATIVE 1)
CROSSING #0
CROSSING #1
CROSSING #2
PLAN - Crossing 2

PROFILE - Crossing 2

4 CELL REINFORCED CONCRETE BOX CULVERT, 5.25' x 5.25'

W-BEAM GUARDRAIL (BOTH SIDES)
CROSSING #3
MARIPOSA BYPASS CROSSING
Detail 1

Bridge deck

Shaded area for bridge deck piers. 4 rows of 3 stagg ered piers at 170" O.C.

Figure 2-10

Shaded area for bridge deck.

Bridge deck foundation plane.
DAN MCNAMARA RD
Bridge abutment

Drilled piles for bridge deck piers, 14 rows of 7 staggered piles at 110' O.C.

PLAN

SCALE OF FEET

DETAIL 1

FLOW

Bridge deck foundation piles

See bevel axis

Bridge abutment

SCALE OF FEET

FIGURE 2-J

SHEET 1 OF 2

RECLAMATION

Dan McNamara

Rd. bridge

DESIGNED

CHECKED

TECH. APPROVED

OCTOBER 201

SW JAGUIN POWER RECLAMATION PROGRAM

SAFETY FIRST

ALWAYS THINK SAFETY

RECLAMATION
W EL NIDO RD
FIGURE 2-1

SECTION A-A
EL NIDO ROAD BRIDGE PROFILE
MARIPOSA BYPASS CONTROL STRUCTURE
Demolish current structure invert
Excavation

Existing ogee structure invert

New deck (as needed)

SECTION A-A

Gusset/Remove existing deck, install or replace new deck as needed

Existing ogee structure invert

SECTION B-B

SECTION A-A

SECTION B-B

20'-0" piles, Min. Tip Elev.

26' # piles, Min. Tip elev.

Fig. 2-9

SHEET 1

CF 1
ALTERNATIVE 3 (OLD ALTERNATIVE 2)
CROSSING #0
Plan - Crossing 0

Profile - Crossing 0

4 CELL REINFORCED CONCRETE BOX CULVERT, 5.25' x 5.25'

W-BEAM GUARDRAIL (BOTH SIDES)

SCALE OF FEET

100

Original Ground Surface

Rockey Surface

555.25' R.P.

4 CELL REINFORCED CONCRETE BOX CULVERT, 5.25' x 5.25'

REGIONAL DESIGNER:

Dated:

RECONSTRUCTION

Figure 3-7
CROSSING #1
CROSSING #2
CROSSING #3
Drilled Piles for bridge deck piers, 14 rows of 7 staggered piers at 110'-0" O.C.
W EL NIDO RD
Bridge abutment
Ramps to existing grade

GDP piles for bridge deck piers, 14 rows of 7 staggered piles at 110' O.C.

New Reach 48' span at D. Nido Road, El. 89.1'

GDP piles for bridge deck piers, 13 rows of 7 piles staggered

Minimum tip El. 85.0'

14 spans @ 118' = 1540'

Precast concrete piers

New Reach bridge deck EL 112.0'

SCALE OF FEET

PLAN

SECTION A-A

EL NIDO ROAD BRIDGE PROFILE

1 2 3 4 5

110 120 130 140

SCALE OF FEET

FIGURE 3-2

REFERENCES


CHECKED

APPROVED

DATE: OCTOBER 2018

D. NIDO ROAD BRIDGE

DISCLAIMER

The information provided in this document is intended for informational purposes only and should not be used for any purpose without verification and consultation with appropriate professionals.
SAND SLOUGH CONTROL STRUCTURE
EASTSIDE BYPASS CONTROL STRUCTURE
ALTERNATIVE 4 (OLD ALTERNATIVE 3)
CROSSING #0
PLAN - Crossing 0

W-BEAM GUARDRAIL (BOTH SIDES)

20"高度自然床板
在管道中安装用于鱼类
5"abay wall
侧面和底部

5 CELL REINFORCED CONCRETE BOX CULVERT, 7.5' x 8.5'

PROFILE - Crossing 0

5 CELL REINFORCED CONCRETE BOX CULVERT, 7.5' x 8.5'

Original Ground Surface

Roadway Surface

SCALE OF FEET

For Internal Use Only
Safety
Always Think Safety

Not For Public Release or Distribution

FIGURE 4-6
CROSSING #1
5 CELL REINFORCED CONCRETE BOX CULVERT, 7.5' x 8.5'

PLAN - Crossing 1

SCALE OF FEET

PROFILE - Crossing 1

For Internal Use Only

Not For Reproduction

FIGURE 4-7
CROSSING #2
CROSSING #3
MARIPOSA BYPASS CROSSING
DAN MCNAMARA RD
Drilled Piles for bridge deck piers, 14 rows of 7 staggered piers at 110' O.C.
W EL NIDO RD
SECTION A-A

EL NIDO ROAD BRIDGE PROFILE

11 spans @ 110' = 1210'
Precast concrete girders
13 spans @ 110' = 1210'
Precast concrete girders
3% ramp, roadway centerline ramps to bridge
Bridge abutment

New Reach 4B invert at El. Nido Road, elevation 93.0'

CPT piles for bridge deck piers, 15 rows of 7 piers staggered
Minimum fill El. 83.0'

13.5'

Figure 4-2

PLAN

SCALE OF FEET

1 2 3 4 5

SECTION A-A

EL NIDO ROAD BRIDGE PROFILE

11 spans @ 110' = 1210'
Precast concrete girders
13 spans @ 110' = 1210'
Precast concrete girders
3% ramp, roadway centerline ramps to bridge
Bridge abutment

New Reach 4B invert at El. Nido Road, elevation 93.0'

CPT piles for bridge deck piers, 15 rows of 7 piers staggered
Minimum fill El. 83.0'

13.5'
SAND SLOUGH CONTROL STRUCTURE
Existing canal shape

Pneumatic control lines, Typ.

Steel w/ stiffeners

PVC conduit ~

12'-0''

PVC conduit (qty varies)

Grouted rip-rap

Grouted rip-rap, tip 1.5'-8''

1.5'-8'' Typ., tip 1.65'-8''

Jet grouting

Backfill

Select Backfill

New grading about structure

(4) bays @ 20'-0'' Typ.

Pneumatic control lines

FIGURE 4-1

Note:
1. Compressor/controls building is masonry with steel roof: 1'-8'' tall.
MARIPOSA BYPASS CONTROL STRUCTURE
Demolish/Remove existing deck; install or replace new deck as needed.

Existing ogee structure invert

Excavation

New deck (as needed)

New plan wall (1' thick)

Old ogee structure invert

To be demolished & removed

Existing ogee structure invert

New ogee structure invert

SECTION A-A

SECTION B-B

Fig. 2-9

SHEEL OF 1

RECLAMATION RENGIN RECONSTRUCTION PROGRAM

Drawing: D. M. Hume

Checked: D. W. Jones

TECH. APPR.: N. M. E.

Prepared: D. B. Doner Co., Inc.

OCTOBER 20