



GILA BEND AREA FLOODPLAIN DELINEATION STUDY

Project 11358: GILA BEND F.I.S.

FCD 90-67

Photographs: Concentration Points

INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 10/3/91

COLLECTOR: TR

SAMPLE ID#: CP10

LOCATION: CP10, SR 85 Structure
Sheet 1, Pg. 81

CHANNEL NAME: CP10

QUAD NAME:

 1/4 Section , T , R

COUNTY:

APPROXIMATE ELEVATION (MSL):

Property of
Flood Control District of MC Library
Please Return to
2801 W. Durango
Phoenix, AZ 85009

SAMPLE TYPE:

 Sediment Modeling (top 3 inches of wash bottom)

 First Level (top 24 inches)

 Second Level (24-48 inches)

 Third Level (48-72 inches)

 Other - Description:

 Armoring : Yes No Sizes Depth Thickness

CROSS SECTION DESCRIPTION AND SKETCH:

8-10' x 5' RCBC
Box is silted up.
Clear opening, from left to right:
3.5', 3.8', 3.8', 3.8', 3.8', 3.6', 3.3', 3.1'
(inlet, looking D/S).

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES: RR Bridge: 6 spans, 2 outside spans = 12' wide,
4 inside spans = 13' wide.

Left: clear opening, from left to right, D/S: 2.5', 2.3', 3.6', 4.2', 4.5', 3.5'

Channel: Height from bottom chord to top-of-rail = 4'

Right:

SAMPLE ID#: CP10 DATE: 10/3/91 COLLEC-
TOR: JRL

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RBB-P1, D/S from outlet of RCBC



PHOTOGRAPH #2: ~~Downstream from Site~~ RBB-P2, u/s at outlet of RCBC



SAMPLE ID#: CP10 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: ~~Left Channel Bank and Left Overbank~~ RBB-P3, U/S from Inlet of RR Bridge



PHOTOGRAPH #4: ~~Right Channel Bank and Right Overbank~~ RBB-P4, D/S at Inlet to RCBC



SAMPLE ID#: CP10 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #5: ~~Wash showing Sample Area~~ RBB-P5, D/S at RR Bridge Inlet, Left



PHOTOGRAPH #6: ~~Close up of Sample Hole and Identified Layers~~ RBB-P6, D/S at RR Bridge Inlet,
Right



SAMPLE ID#: CP10

DATE: 10/3/91

COLLEC-

TOR: TRL

PHOTOGRAPH #~~3~~⁷: ~~Wash showing Sample Area~~ RBB-P7, u/s from R.R. Bridge Inlet



PHOTOGRAPH #~~4~~⁸: ~~Close-up of Sample Hole and Identified Layers~~ RBB-P8, From Top of RR Tracks
Looking east along levee.



INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 9/20/91

COLLECTOR: TRL

SAMPLE ID#: CP11

LOCATION: CP11

Sheet 1 PG 17

CHANNEL NAME: Canal Siphon

QUAD NAME:

 1/4 Section , T , R

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

 Sediment Modeling (top 3 inches of wash bottom)

 First Level (top 24 inches)

 Second Level (24-48 inches)

 Third Level (48-72 inches)

 Other - Description:

 Armoring : Yes No Sizes Depth Thichness

CROSS SECTION DESCRIPTION AND SKETCH:

See next page

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S "N" VALUE NOTES:

Left:

Channel:

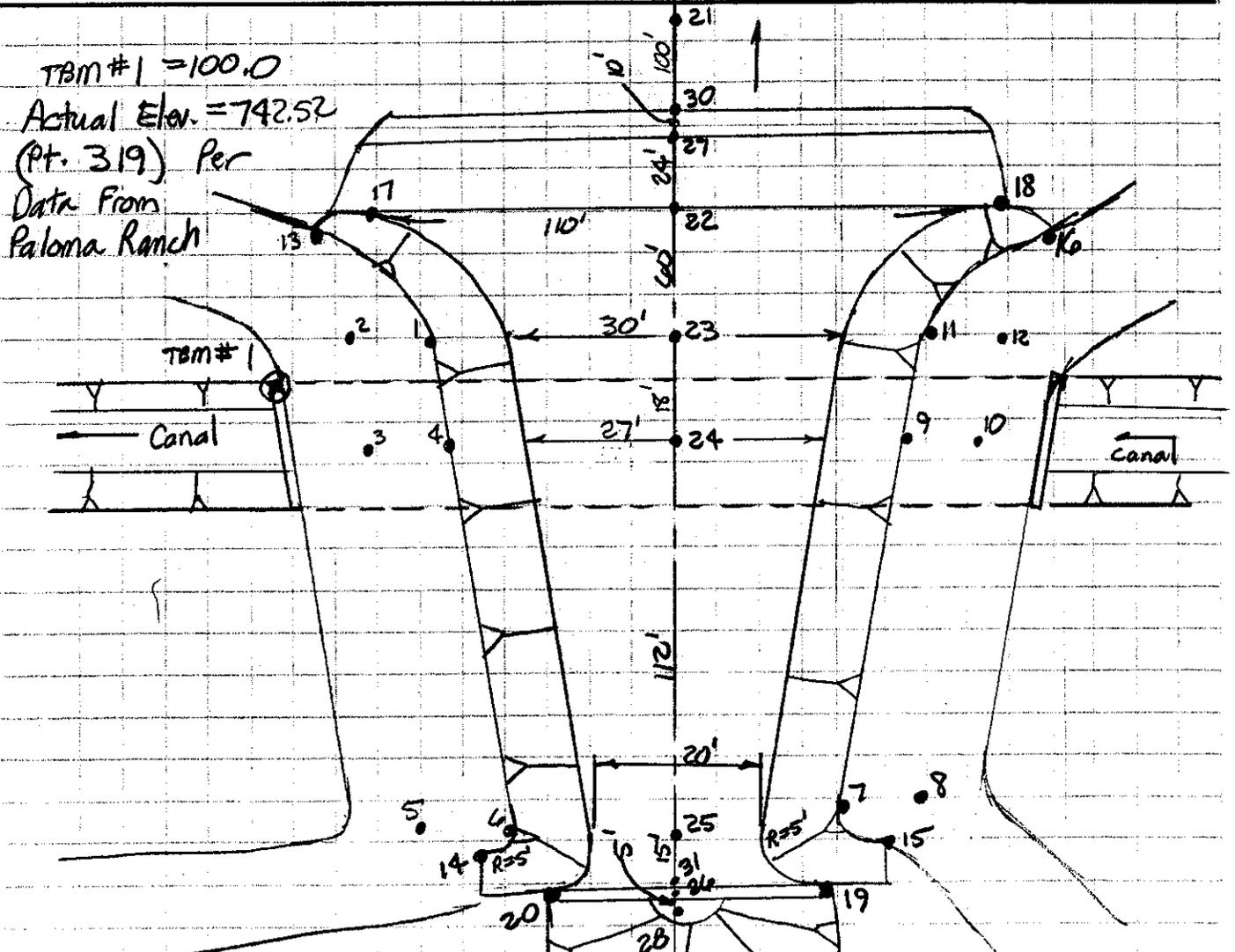
Right:

BURGESS & NIPLE, INC. - COMPUTATION SHEET

JOB NO. _____ JOB NAME _____ SHEET 1 OF _____ SHEETS

SUBJECT CP11 PREPARED BY TRL DATE 9/20/91

CHECKED BY _____ DATE _____



Pt.	Elev.	Pt.	Elev.	Pt.	Elev.
1	741.0	14	741.8	27	730.2
2	742.2	15	742.4	28	733.6
3	742.3	16	741.2	29	737.0
4	740.5	17	734.3	30	728.2
5	739.9	18	733.4	31	733.3
6	741.7	19	736.7		
7	742.4	20	738.0		
8	742.1	21	727.1		
9	741.4	22	730.7		
10	742.2	23	731.7		
11	741.3	24	731.8		
12	742.1	25	733.4		
13	741.2	26	733.9		

SAMPLE ID#: CP11 DATE: 9/20/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RG-P4: From NW Top of Bank, Looking SE
(T/B) (L.)



PHOTOGRAPH #2: ~~Downstream from Site~~ RG-P5: From SW T/B L. SE



SAMPLE ID#: CP11 DATE: 9/20/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: ~~Left Channel Bank and Left Overbank~~ RG-P6: From South of Overchute
L. 4/5



PHOTOGRAPH #4: ~~Right Channel Bank and Right Overbank~~ RG-P7: Looking S. at Gravel Pit



SAMPLE ID#: CP11 DATE: 9/20/91 COLLEC-
TOR: TRL

PHOTOGRAPH #5: ~~Wash showing Sample Area~~ RG-98: 2. S.W at Gravel Pit



PHOTOGRAPH #6: ~~Close-up of Sample Hole and Identified Layers~~ RG-99: 1. WSW at Gravel Pit



SAMPLE ID#: CP11 DATE: 9/20/91 COLLEC-
TOR: TRL

PHOTOGRAPH #~~7~~: Wash showing Sample Area RG-P10: L. D/S at Chute from Inlet
7



PHOTOGRAPH #~~8~~: Close up of Sample Hole and Identified Layers RG-P11: Looking W. from SE
8 TIB



SAMPLE ID#: CP11 DATE: 9/20/91 COLLEC-
TOR: TRL

PHOTOGRAPH #9: Wash showing Sample Area — RG-PI2 L. W. from N.E. T/B



PHOTOGRAPH #10: Close-up of Sample Hole and Identified Layers — RG-PI3 L. U/S from D/S
of Outlet



INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
 FLOOD MANAGEMENT SECTION

DATE: 9/20/91

COLLECTOR: TRL

SAMPLE ID#: CP11 3LZ

LOCATION: 300' 4/5 of CP11 (measured from S. end of concrete overchute)
3LZ sheet, Pg. 18

CHANNEL NAME: 3LZ RIO-11

QUAD NAME:

 1/4 Section , T , R

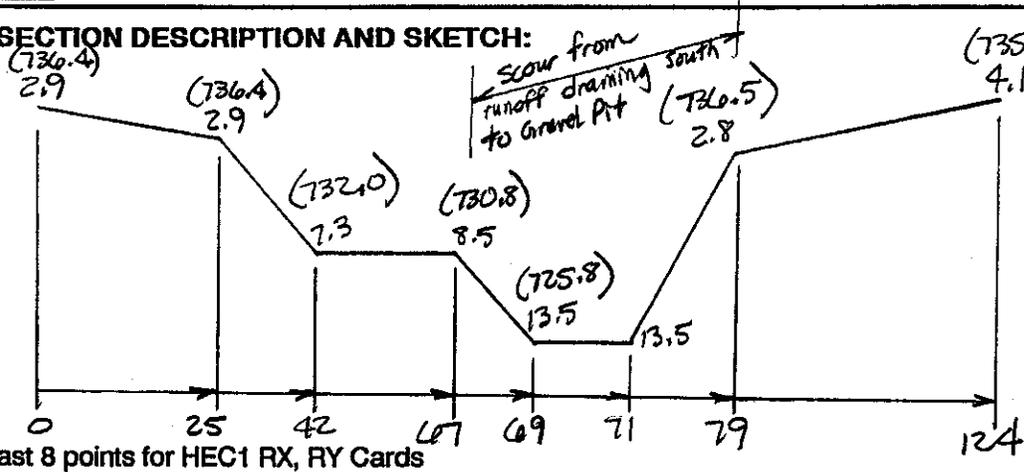
COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

- Sediment Modeling (top 3 inches of wash bottom)
- First Level (top 24 inches)
- Second Level (24-48 inches)
- Third Level (48-72 inches)
- Other - Description:
- Armoring : Yes No Sizes Depth Thickness

CROSS SECTION DESCRIPTION AND SKETCH:



Note:
 Doesn't really function as an inlet channel to overchute.

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S "N" VALUE NOTES:

Left:
 Channel:
 Right:

SAMPLE ID#: CP11 DATE: 9/20/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RG-P14: Lr U/S at Inlet Channel from Gravel Pit.



PHOTOGRAPH #2: Downstream from Site

INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 10/3/91

COLLECTOR: TRL

SAMPLE ID#: CP12

LOCATION: CP12, @ Canal
Sheet 1, Pg. 76

CHANNEL NAME: CP12

QUAD NAME:

_____ 1/4 Section _____, T _____, R _____

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

___ Sediment Modeling (top 3 inches of wash bottom)

___ First Level (top 24 inches)

___ Second Level (24-48 inches)

___ Third Level (48-72 inches)

___ Other - Description:

___ Armoring : Yes ___ No ___ Sizes _____ Depth _____ Thickness

CROSS SECTION DESCRIPTION AND SKETCH:

Inlet (West) 2-48" CMP's w/ headwall and 1-48" CMP w/ hdwl. (east)

	West	East
Shot on: Top of canal lining, south side	= 2.7	2.9
Top of levee road	= 4.1	4.2
Top of headwall	= 11.6	10.5
# of right CMP	= 16.2	15.4

Outlet West Pipes : 2-6'x4' RCBC
 East Pipe : 1-6'x4' RCBC
 Length of CMP ≈ 30'

No pictures of outlet. overgrown with brush. east

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP12 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: Upstream from Sample Site RW-P15 D/S at Inlet - West

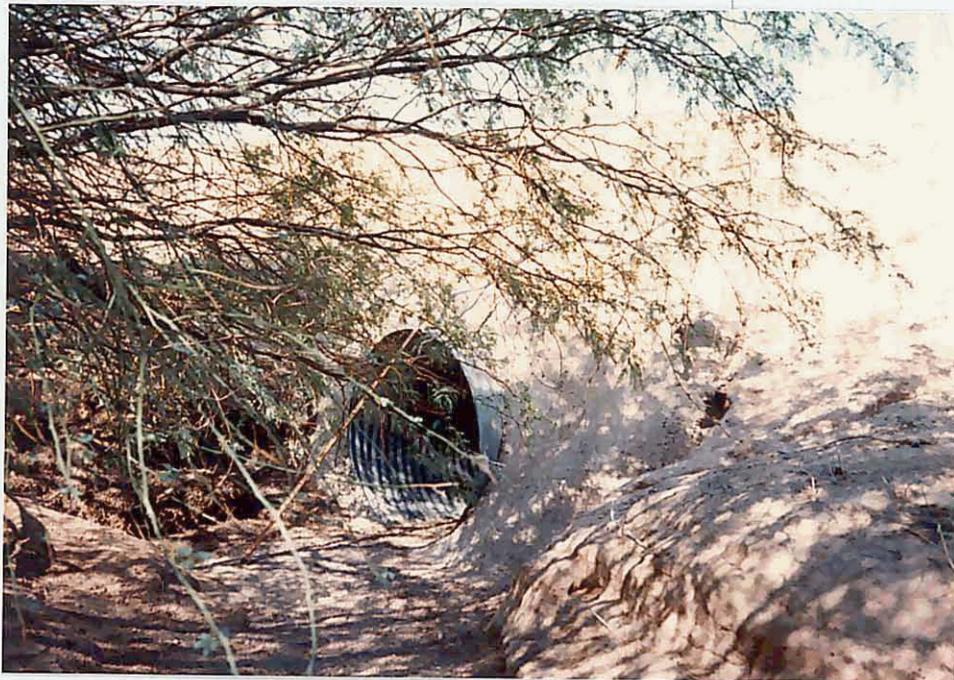


PHOTOGRAPH #2: Downstream from Site RW-P10 u/s from inlet - West



SAMPLE ID#: CP12 DATE: 10/3/91 COLLEC-
TOR: TBL

PHOTOGRAPH #3: Left Channel Bank and Left Overbank RW-P17 Inlet - East



PHOTOGRAPH #4: Right Channel Bank and Right Overbank RW-P18 Inlet, South From Canal T/B
EAST



SAMPLE ID#: CP12 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #5: Wash showing Sample Area RW-P19 Inlet SW from canal T/B
EAST



PHOTOGRAPH #6: Close-up of Sample Hole and Identified Layers RW-P20 Inlet SE from canal T/B
EAST



SAMPLE ID#: CP12 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #~~7~~⁷: ~~Left Channel Bank and Left Overbank~~ RW-P21, west, outlet: U/S at outlet



PHOTOGRAPH #~~4~~⁸: ~~Right Channel Bank and Right Overbank~~ RW-P22, west outlet, D/S from outlet



SAMPLE ID#: CP12 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #~~8~~₉: ~~Wash showing Sample Area~~ RW-P23, east outlet D/s from outlet



PHOTOGRAPH #~~9~~₁₀: Close-up of Sample Hole and Identified Layers RW-P24, East outlet. Looking west along canal levee.



INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES

FLOOD MANAGEMENT SECTION

DATE: 9/24/91

COLLECTOR: TRL

SAMPLE ID#: CP16

LOCATION: CP16
Sheet 1 PG 33

CHANNEL NAME: Watermelon Road

QUAD NAME:

 1/4 Section , T , R

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

 Sediment Modeling (top 3 inches of wash bottom)

 First Level (top 24 inches)

 Second Level (24-48 inches)

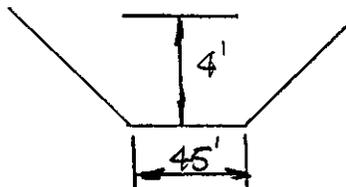
 Third Level (48-72 inches)

 Other - Description:

 Armoring : Yes No Sizes Depth Thickness

CROSS SECTION DESCRIPTION AND SKETCH:

Similar to CP3
Road Crossing



Use at least 8 points for HEC1 RX, RY Cards

MANNING'S "N" VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP10 DATE: 9/24/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: Upstream from Sample Site RM-P1



PHOTOGRAPH #2: Downstream from Site RM-P2



INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 9/23/91

COLLECTOR: TRL

SAMPLE ID#: CP17

LOCATION: CP17 RR Bridge
sheet 1 PG 30

CHANNEL NAME:

QUAD NAME:

1/4 Section, T , R

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

Sediment Modeling (top 3 inches of wash bottom)

First Level (top 24 inches)

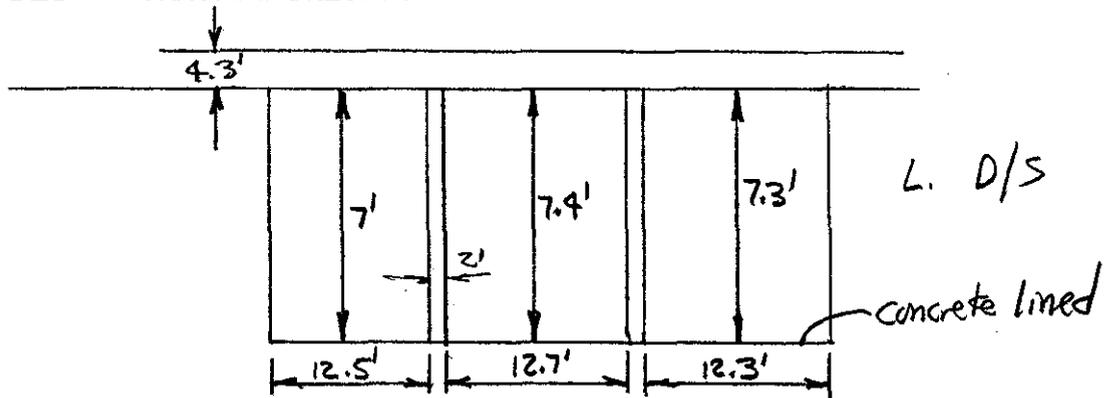
Second Level (24-48 inches)

Third Level (48-72 inches)

Other - Description:

Armoring : Yes No Sizes Depth Thickness

CROSS SECTION DESCRIPTION AND SKETCH:



Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP 17 DATE: 9/23/91 COLLECTOR: _____

PHOTOGRAPH #3: Left Channel Bank and Left Overbank *RL - P1 L 4/5 @ incoming channel*



PHOTOGRAPH #4: Right Channel Bank and Right Overbank *RL - P2 L 1/5 @ R.R. Bridge inlet*



SAMPLE ID#: CP-17 DATE: 9/23/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: Left Channel Bank and Left Overbank RL - P3



PHOTOGRAPH #4: Right Channel Bank and Right Overbank RL P4.



INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 9/24/91

COLLECTOR: TRL

SAMPLE ID#: CPWNTP

LOCATION: CP 18 ~~WNTP~~
sheet 1 PG 33

CHANNEL NAME:

QUAD NAME:

_____ 1/4 Section _____, T _____, R _____

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

_____ Sediment Modeling (top 3 inches of wash bottom)

_____ First Level (top 24 inches)

_____ Second Level (24-48 inches)

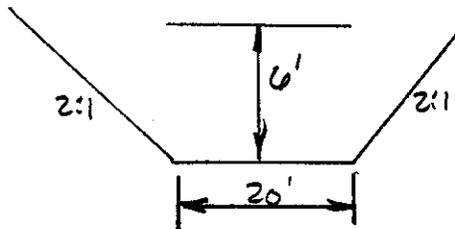
_____ Third Level (48-72 inches)

_____ Other - Description:

_____ Armoring : Yes ___ No ___ Sizes _____ Depth _____ Thickness _____

CROSS SECTION DESCRIPTION AND SKETCH:

u/s Section



Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP WWTP/CP-18 DATE: 9/24/91 COLLEC-
TOR: JRL

PHOTOGRAPH #1: Upstream from Sample Site RL-P22



PHOTOGRAPH #2: Downstream from Site RL-P23



SAMPLE ID#: CP WNTP CP18 DATE: 9/24/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: ~~Left Channel Bank and Left Overbank~~ RL-P24
Road Crossing



PHOTOGRAPH #4: Right Channel Bank and Right Overbank

INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 10/4/91

COLLECTOR: TRL

SAMPLE ID#: CP33

LOCATION: CP33, SRFS structure
Sheet 1/2 Pg. 82

CHANNEL NAME: CP33, Saucedo Wash

QUAD NAME:
_____ 1/4 Section _____, T _____, R _____

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

_____ Sediment Modeling (top 3 inches of wash bottom)

_____ First Level (top 24 inches)

_____ Second Level (24-48 inches)

_____ Third Level (48-72 inches)

_____ Other - Description:

_____ Armoring : Yes ___ No ___ Sizes _____ Depth _____ Thickness _____

CROSS SECTION DESCRIPTION AND SKETCH:

SRFS STRUCTURE = 7-10' x 5' RCBC, No sitting
RR Bridge has 6 spans, 2 end spans = 10' wide
& interior spans = 13' wide

Intet clear opening (left to right, D/s): 1.8', 2.3', 3.6', 4.1', 4.3', 5.3' (ignoring debris)

Height from bottom of chord to top-of-rail = 3.5'

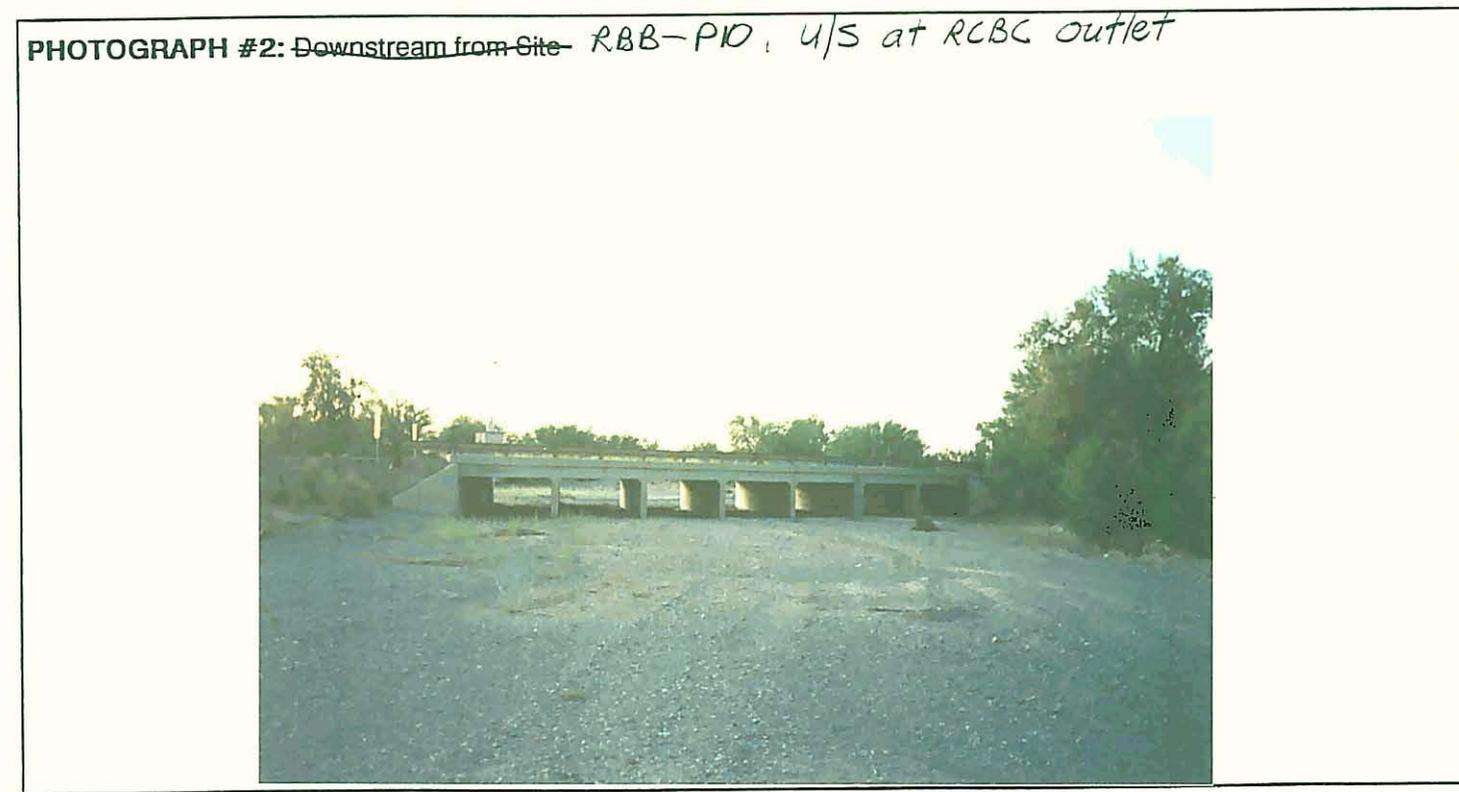
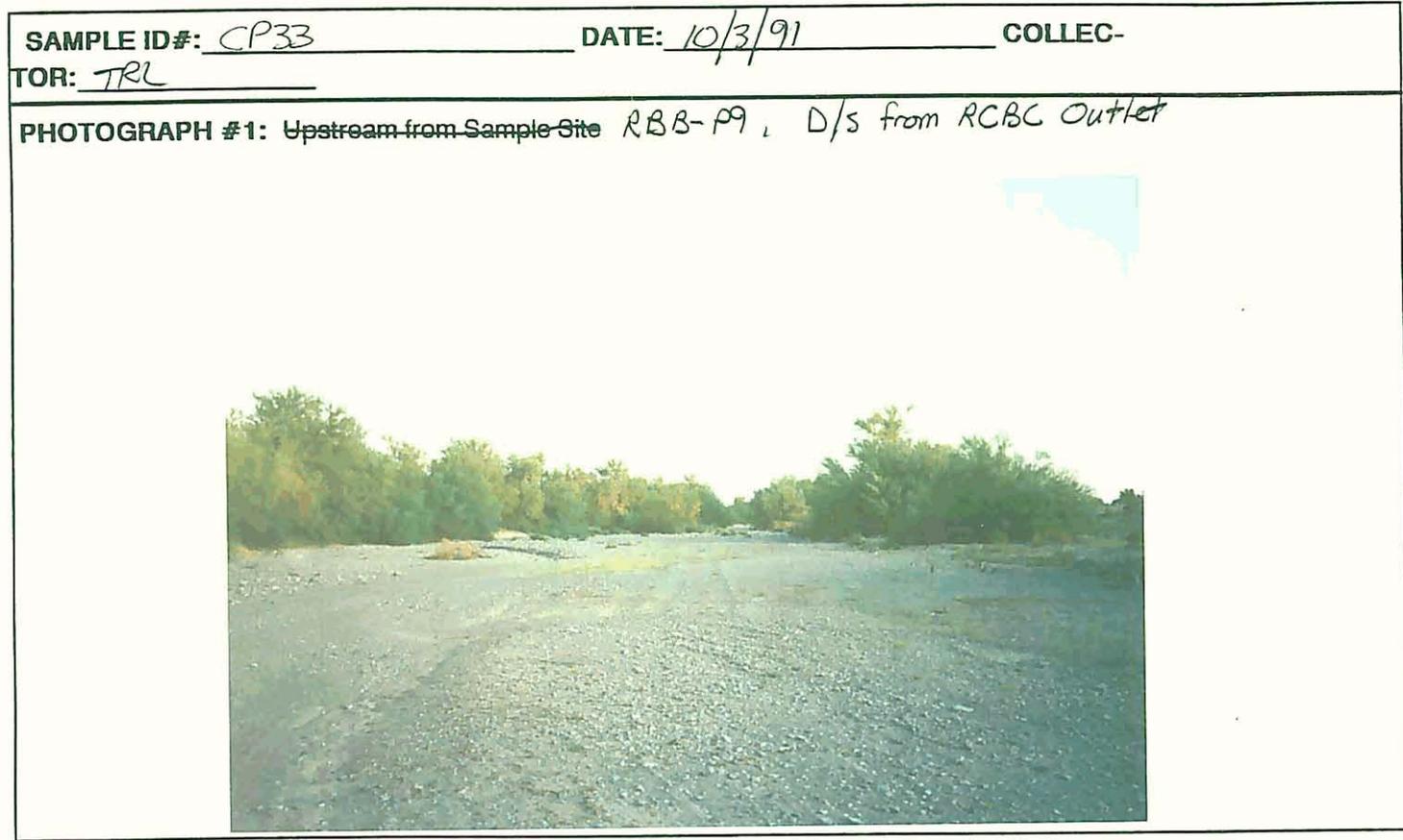
Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left:

Channel:

Right:



SAMPLE ID#: CP33 DATE: 10/4/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: ~~Left Channel Bank and Left Overbank~~ RBB-P11, D/S at RCBC Inlet, Left Side



PHOTOGRAPH #4: ~~Right Channel Bank and Right Overbank~~ RBB-P12, D/S at RCBC Inlet, Right Side



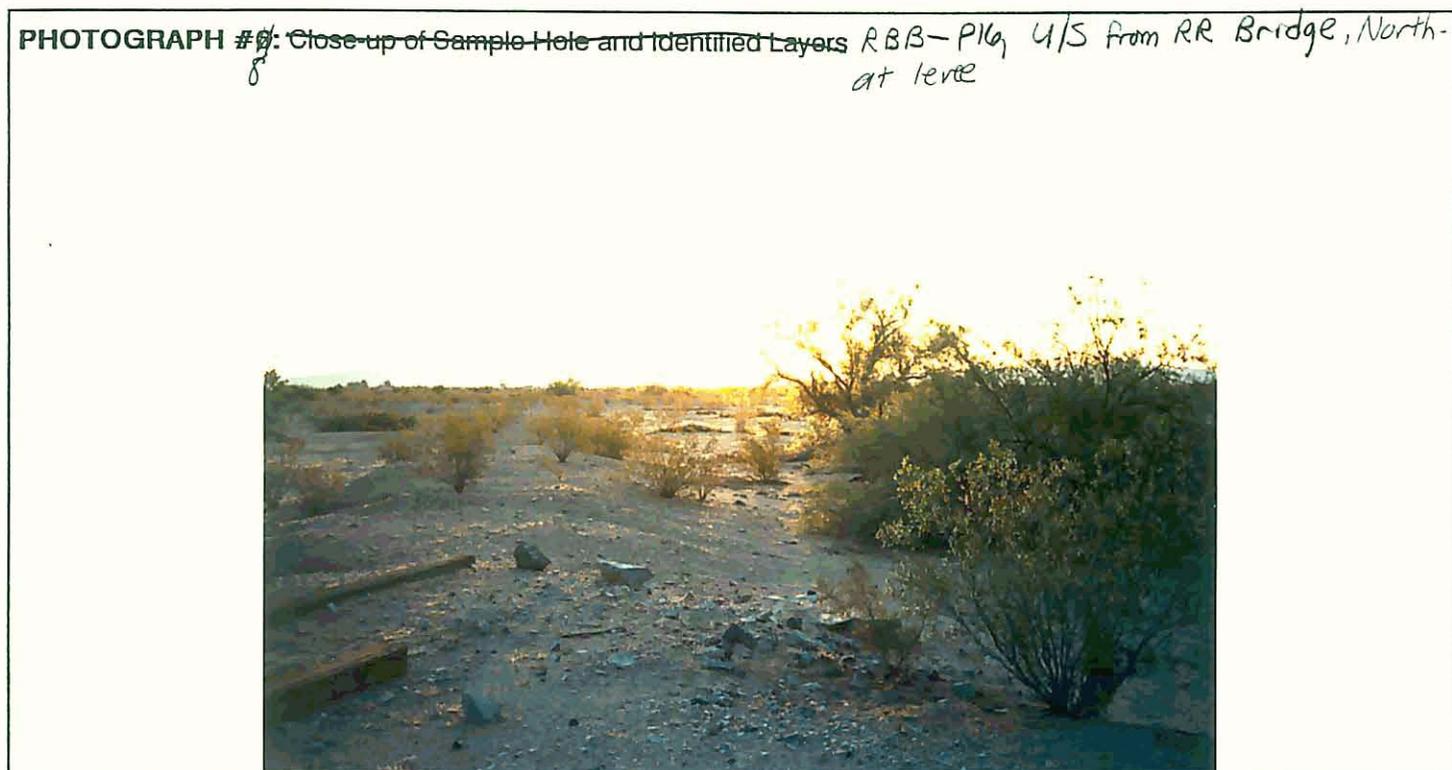
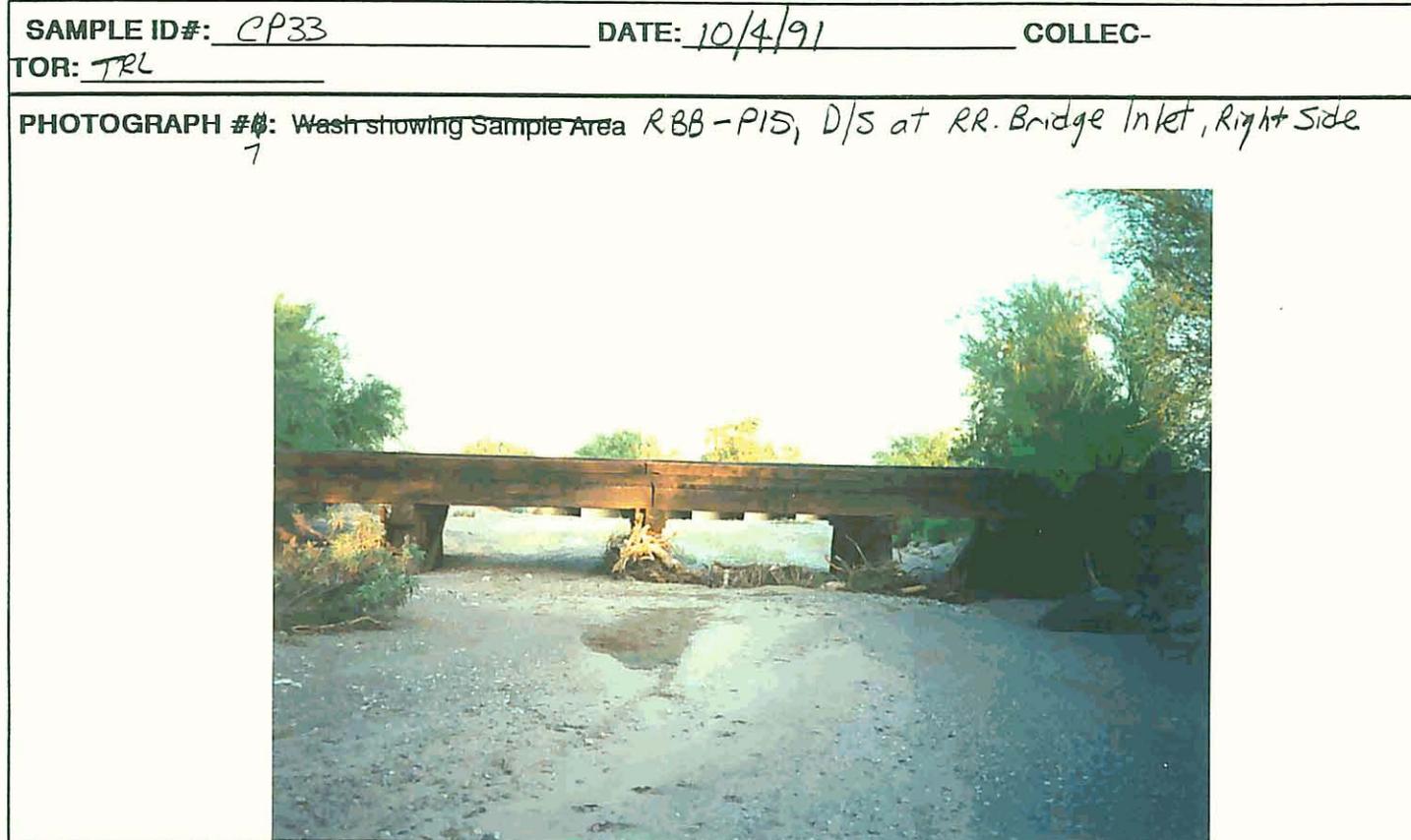
SAMPLE ID#: CP33 DATE: 10/4/91 COLLEC-
TOR: TRL

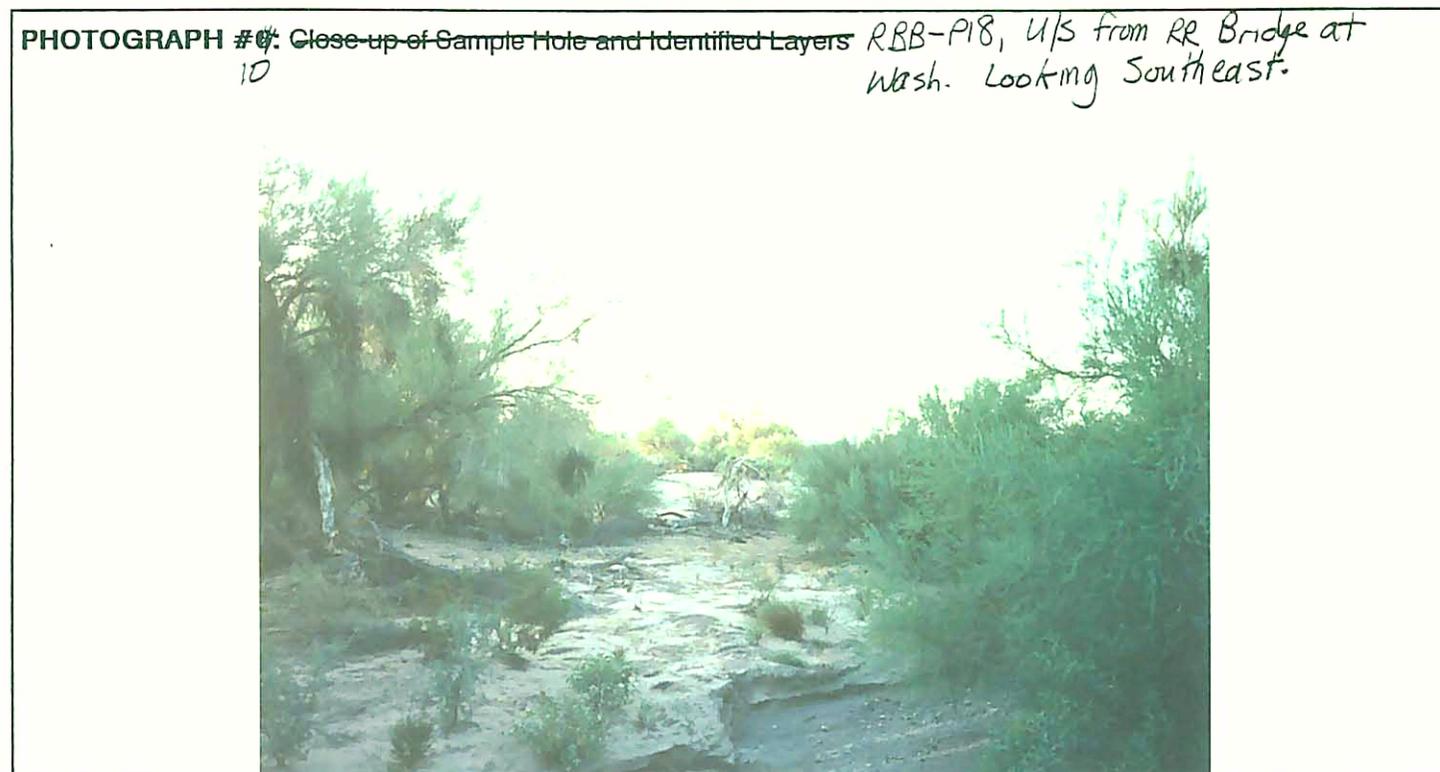
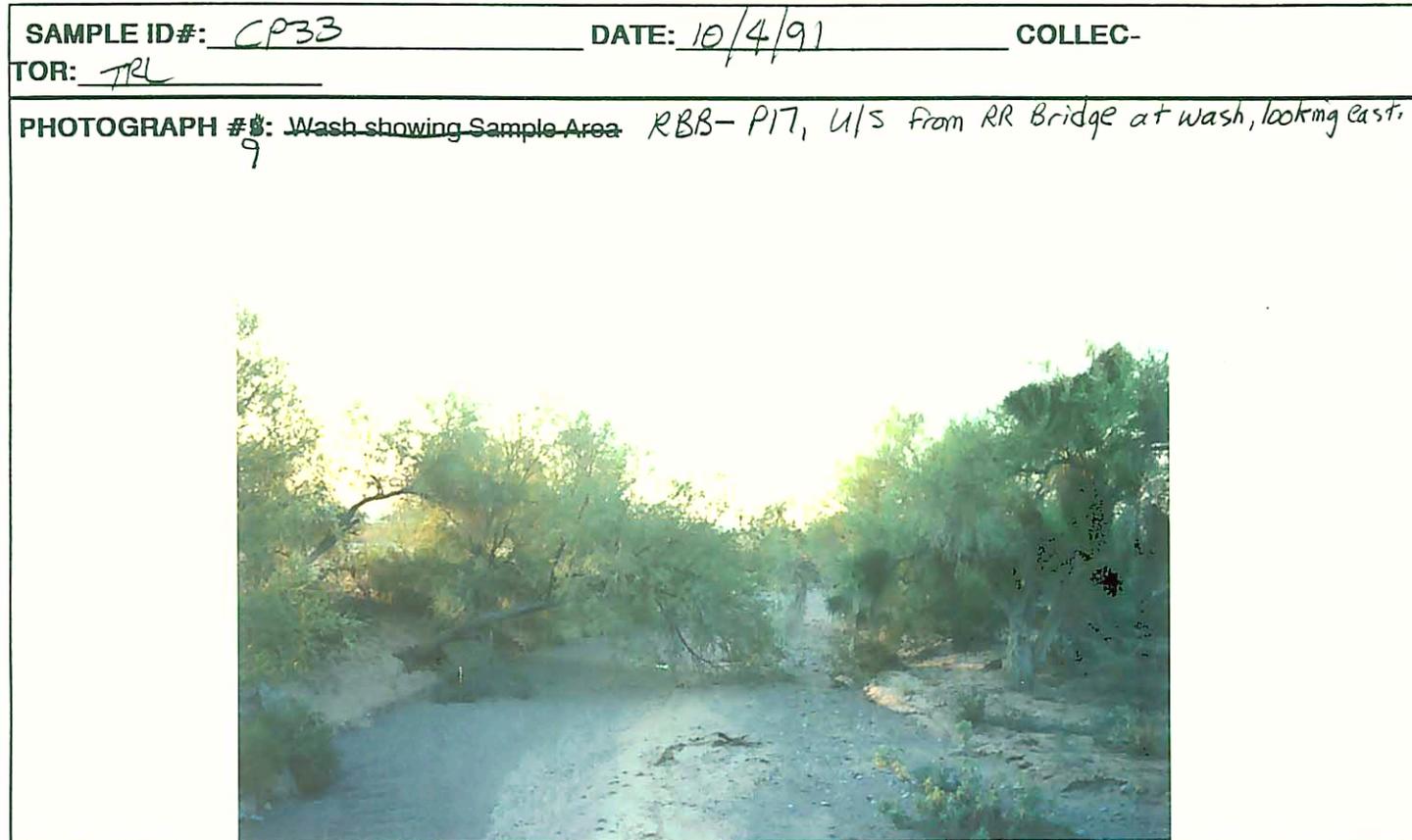
PHOTOGRAPH #5: Wash showing Sample Area RBB-P13, U/S at RR Bridge outlet



PHOTOGRAPH #6: Close-up of Sample Hole and Identified Layers RBB-P14, D/S at RR Bridge Inlet, Left side







INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 10/4/91

COLLECTOR: TRL

SAMPLE ID#: CP35

LOCATION: CP35, SR 85 RCBC
Sheet 1, Pg. 83

CHANNEL NAME: CP35

QUAD NAME:

 1/4 Section , T , R

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

 Sediment Modeling (top 3 inches of wash bottom)

 First Level (top 24 inches)

 Second Level (24-48 inches)

 Third Level (48-72 inches)

 Other - Description:

 Armoring : Yes No Sizes Depth Thickness

CROSS SECTION DESCRIPTION AND SKETCH:

SR 85: 4- 10'x8' RCBC, Clear opening at Inlet, Left to Right
7.5', 7.0', 6.8', 7.1'

R.R. Bridge: 6 spans. 2 end spans = 11.5' wide, 4 interior spans = 13' wide
Clear opening, left to right at inlet looking D/S:
5.4', 5.8', 6.2', 6.7', 6.9', 6.3'

From Bottom Chord to Top of rail = 3'6"
See field notes for c/s upstream of RR Bridge.

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP35 DATE: 10/4/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RBB-P19, D/S from SR85 RCBC Outlet



PHOTOGRAPH #2: ~~Downstream from Site~~ RBB-P20, U/S at SR85 RCBC outlet



SAMPLE ID#: CP35 DATE: 10/4/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: ~~Left Channel Bank and Left Overbank~~ RBB-P21, *u/s from SR 85 RCBC Inlet at RR Bridge outlet*



PHOTOGRAPH #4: ~~Right Channel Bank and Right Overbank~~ RBB-P22, *D/S at SR 85 RCBC Inlet*



SAMPLE ID#: CP35

DATE: 10/4/91

COLLEC-

TOR: TRL

PHOTOGRAPH #5: Wash showing Sample Area RBB-P23, U/s Top of RR at Levee on North side



PHOTOGRAPH #6: Close-up of Sample Hole and Identified Layers RCC-P1, U/s from Top of RR Bridge at Wash, looking East



SAMPLE ID#: CP35 DATE: 10/4/91 COLLEC-
TOR: JRL

PHOTOGRAPH #7: Wash showing Sample Area RCC-P2, U/S from Top of RR Bridge at wash
Southeast



PHOTOGRAPH #8: Close-up of Sample Hole and Identified Layers - RCC-P3, D/S at RR Bridge Inlet
left side.



SAMPLE ID#: CP35 DATE: 10/4/91 COLLEC-
TOR: TR

PHOTOGRAPH #~~9~~: ~~Was showing Sample Area~~ RCC-P4, D/S at RR Bridge Inlet, Middle



PHOTOGRAPH #~~10~~: ~~Close-up of Sample Hole and Identified Layers~~ RCC-P5, D/S at RR Bridge, Right



INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 9/17/91

COLLECTOR: TRL

SAMPLE ID#: CP36

LOCATION: CP36, Saucedo Wash Overchute
Sheet 1 PG 13

CHANNEL NAME:

QUAD NAME:

 1/4 Section T R

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

 Sediment Modeling (top 3 inches of wash bottom)

 First Level (top 24 inches) TBM #1 = 100.00

 Second Level (24-48 inches) TBM #2 = 91.2

 Third Level (48-72 inches)

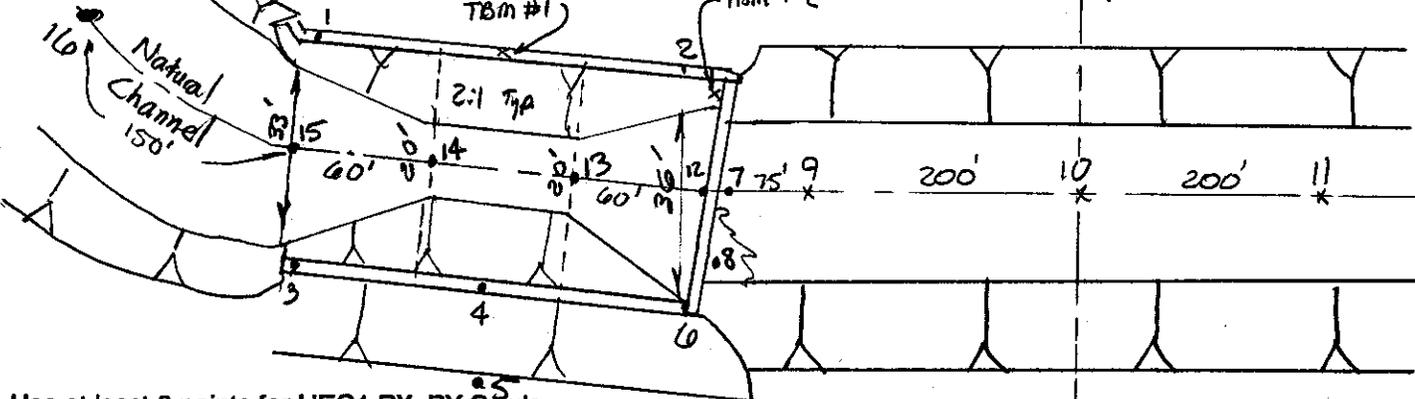
 Other - Description:

 Armoring : Yes No Sizes

Pt.	Elev.	Pt.	Elev.
1	97	12	85.5
2	94.6	13	85.7
3	96.3	14	86.0
4	98.1	15	87.8
5	102.0	16	88.3
6	101.2		
7	82.3		
8	80.1		
9	83.8		
10	83.1		
11	82.0		

Notes: - Top of 4' c/wall, - Scour hole, - R, - R, - R, Depth, Thickness

CROSS SECTION DESCRIPTION AND SKETCH:



Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP30 DATE: 9/17/91 COLLEC-
TOR: TR1

PHOTOGRAPH #1: Upstream from Sample Site RF-PS: From NW Bank L. SE.



PHOTOGRAPH #2: Downstream from Site RF-PC: From NW Bank L. North up Channel (D/S)



SAMPLE ID#: CP36 DATE: 9/17/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: ~~Left Channel Bank and Left Overbank~~ RF-P7: *looking SE at D/S END of
overchute.*



PHOTOGRAPH #4: Right Channel Bank and Right Overbank RF-P8: *L. u/s from D/S end of
overchute*



SAMPLE ID#: CP36 DATE: 9/17/91 COLLEC-
TOR: TRL

PHOTOGRAPH #5: Wash showing Sample Area RF-P9: L. S.W. from u/s end, u/s at ex. wash



PHOTOGRAPH #6: Close-up of Sample Hole and Identified Layers RF-P10: L. D/s at overchute
from existing wash.



SAMPLE ID#: CP30 DATE: 9/17/91 COLLEC-
TOR: TR

PHOTOGRAPH #~~7~~: ~~Wash showing Sample Area~~ RF-P11: L. NW from D/S end, on right bank.
7



PHOTOGRAPH #~~8~~: Close-up of Sample Hole and Identified Layers RF-P12: L. S.W. from N.E bank at
outlet bank protection.
8



INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 9/17/91

COLLECTOR: TRL

SAMPLE ID#: CP37

LOCATION: CP37 RR-Bridge
Sheet 1 PG 15

CHANNEL NAME:

QUAD NAME:

 1/4 Section , T , R

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

 Sediment Modeling (top 3 inches of wash bottom)

 First Level (top 24 inches)

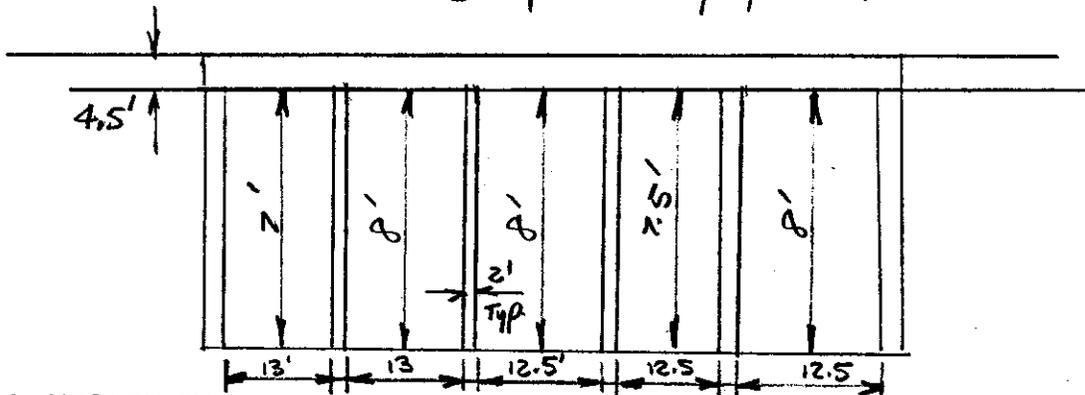
 Second Level (24-48 inches)

 Third Level (48-72 inches)

 Other - Description:

 Armoring : Yes No Sizes Depth Thickness

CROSS SECTION DESCRIPTION AND SKETCH: 5 span Bridge, L. D/S



Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP37 DATE: 9/17/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RF-P15: L. D/S at Inlet to bridge



PHOTOGRAPH #2: ~~Downstream from Site~~ RF-P10: L. U/S from Inlet



SAMPLE ID#: CP37 DATE: 9/17/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: Left Channel Bank and Left Overbank RF-P17: L. at ups side of deck



PHOTOGRAPH #4: Right Channel Bank and Right Overbank RF-P18: L. D/s from bridge at I-8



INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES

FLOOD MANAGEMENT SECTION

DATE: 9/24/91

COLLECTOR: TRL

SAMPLE ID#: CP38

LOCATION: CP38 Watermelon Road
Sheet 1 PG 33

CHANNEL NAME:

QUAD NAME:

 1/4 Section , T , R

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

 Sediment Modeling (top 3 inches of wash bottom)

 First Level (top 24 inches)

 Second Level (24-48 inches)

 Third Level (48-72 inches)

 Other - Description:

 Armoring : Yes No Sizes Depth Thickness

CROSS SECTION DESCRIPTION AND SKETCH:

*Dip Section
Base Width u/s = 28'
Similar to CP3*

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S "N" VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP38 DATE: 9/24/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: Upstream from Sample Site RL-P20



PHOTOGRAPH #2: Downstream from Site RL-P21



INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 9/14/91

COLLECTOR: TRL

SAMPLE ID#: CP-40 Upstream of Split

LOCATION: CP-40 Upstream of flow split
Pg. 1 Sheet 7 200' u/s of CP40

CHANNEL NAME: R 39-40

QUAD NAME:

 1/4 Section , T , R

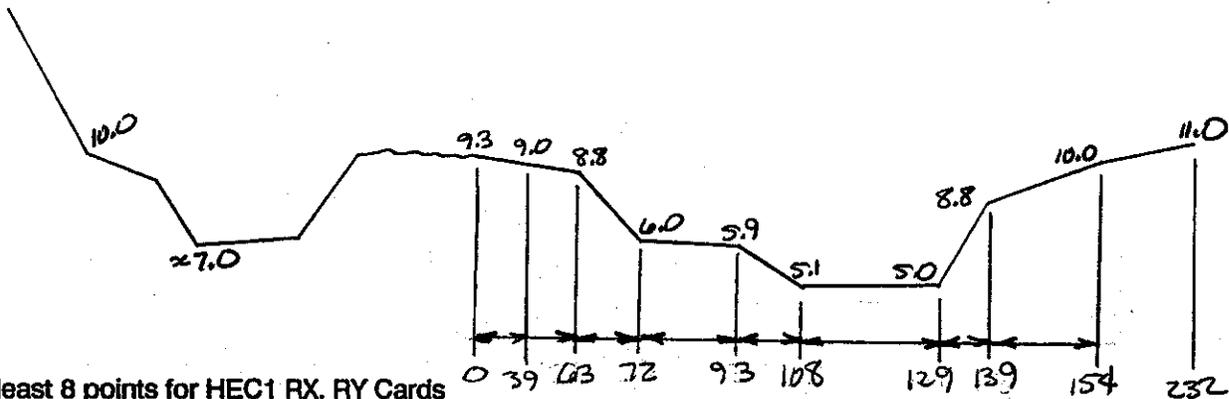
COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

- Sediment Modeling (top 3 inches of wash bottom)
- First Level (top 24 inches)
- Second Level (24-48 inches)
- Third Level (48-72 inches)
- Other - Description:
- Armoring : Yes No Sizes Depth Thickness

CROSS SECTION DESCRIPTION AND SKETCH:



Use at least 8 points for HEC1 RX, RY Cards

MANNING'S "N" VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP-40 DATE: 9/14/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: Upstream from Sample Site RA-P8



PHOTOGRAPH #2: Downstream from Site R8-P7



SAMPLE ID#: CP-40 DATE: 9/14/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: Left Channel Bank and Left Overbank RA-10



PHOTOGRAPH #4: Right Channel Bank and Right Overbank RA-19



INFILTRATION/TRANSMISSION LOSS SAMPLE ARIZONA DEPARTMENT OF WATER RESOURCES FLOOD MANAGEMENT SECTION	DATE: <u>10/4/91</u>
	COLLECTOR: <u>TRL</u>
	SAMPLE ID#: <u>CP44</u>

LOCATION: CP44, SR-85 RCBC
Sheet 1, Pg. 85

CHANNEL NAME: CP44

QUAD NAME:
 _____ 1/4 Section _____, T _____, R _____

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

_____ Sediment Modeling (top 3 inches of wash bottom)

_____ First Level (top 24 inches)

_____ Second Level (24-48 inches)

_____ Third Level (48-72 inches)

_____ Other - Description:
 _____ Armoring : Yes ___ No ___ Sizes _____ Depth _____ Thickness _____

CROSS SECTION DESCRIPTION AND SKETCH:

SR-85: 6-10' x 7' RCBC, Clear opening, left to right, D/S:
6.8', 5.4', 5.4', 5.2', 5.1', 5.7'

RB Bridge: 7 spans, left span = 12', Right span = 11' wide,
5 interior spans = 13'

Clear opening, left to right, D/S: 3.9', 4.0', 5.4', 6.7',
6.4', 6.4', 7.0'

Distance from Bottom Chord to T/Rail = 2.5'

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S "N" VALUE NOTES:

Left:
 Channel:
 Right:

SAMPLE ID#: C P44
TOR: TR

DATE: 10/4/91

COLLEC-

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RDD-P1, D/S From SR-85 Outlet



PHOTOGRAPH #2: ~~Downstream from Site~~ RDD-P2, U/S at SR-85 Outlet



SAMPLE ID#: CP44 DATE: 10/4/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: ~~Left Channel Bank and Left Overbank~~ RDD-P3, D/S at SR-85 Inlet



PHOTOGRAPH #4: ~~Right Channel Bank and Right Overbank~~ RDD-P4, U/S at RR Bridge Outlet,
left



SAMPLE ID#: CP44 DATE: 10/4/91 COLLEC-
TOR: TRL

PHOTOGRAPH #5: ~~Wash showing Sample Area~~ RDD-P5, W/S at RR Bridge Outlet, Middle



PHOTOGRAPH #6: ~~Close up of Sample Hole and Identified Layers~~ RDD-P6, W/S at RR Bridge Outlet, Right



SAMPLE ID#: CP44 DATE: 10/4/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RDD-P7, U/S From RR Bridge Inlet
7



PHOTOGRAPH #1: ~~Downstream from Site~~ RDD-P8, D/S at RR Bridge Inlet, Left.
8



SAMPLE ID#: CP44 DATE: 10/4/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RDD-P2, D/S at RR Bridge Inlet, Right.
9



PHOTOGRAPH #2: ~~Upstream from Site~~
10

INFILTRATION/TRANSMISSION LOSS SAMPLE ARIZONA DEPARTMENT OF WATER RESOURCES FLOOD MANAGEMENT SECTION	DATE: <u>10/4/91</u>
	COLLECTOR: <u>TRL</u>
	SAMPLE ID#: <u>CP45</u>

LOCATION: CP45 - SR85 RCBC
Sheet 1, Pg. 84

CHANNEL NAME: CP45

QUAD NAME:
 _____ 1/4 Section _____, T _____, R _____

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

Sediment Modeling (top 3 inches of wash bottom)

First Level (top 24 inches)

Second Level (24-48 inches)

Third Level (48-72 inches)

Other - Description:

Armoring : Yes No Sizes _____ Depth _____ Thickness _____

CROSS SECTION DESCRIPTION AND SKETCH:

SR-85 : 3-10' x 3' RCBC (no silting)
RR Culverts: 2-78" CMPS
Available H/W Depth = 9.6'

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left:
 Channel:
 Right:

SAMPLE ID#: CP45 DATE: 10/4/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RCC-P6, D/S from SR-85 outlet



PHOTOGRAPH #2: Downstream from Site RCC-P7 = U/S at SR-85 Outlet



SAMPLE ID#: CP45 DATE: 10/4/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: ~~Left Channel Bank and Left Overbank~~ RCC-P8, U/S from SR-85 Inlet



PHOTOGRAPH #4: ~~Right Channel Bank and Right Overbank~~ RCC-P9, D/S at SR 85 Inlet



SAMPLE ID#: RCC-P10 DATE: 10/4/91 COLLEC-
TOR: TRL

PHOTOGRAPH #5: ~~Wash showing Sample Area~~ RCC-P10, U/S at RR Culvert Outlet



PHOTOGRAPH #6: ~~Close up of Sample Hole and Identified Layers~~ RCC-P11, U/S from RR Culvert Inlet, Looking SE. at incoming channel



SAMPLE ID#: CP45 DATE: 10/4/91 COLLEC-
TOR: TRL

PHOTOGRAPH #~~7~~⁷: ~~Wash showing Sample Area~~ RCC-PIZ, D/S at RR Culvert Inlet



PHOTOGRAPH #~~8~~⁸: ~~Close-up of Sample Hole and Identified Layers~~ RCC-PIB, U/S from RR Culvert Inlet, NE along levee on North



INFILTRATION/TRANSMISSION LOSS SAMPLEARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTIONDATE: 9/22/91COLLECTOR: TRLSAMPLE ID#: CP48LOCATION: CP 48 Flow Split

CHANNEL NAME:

QUAD NAME:

 1/4 Section , T , R

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE: Sediment Modeling (top 3 inches of wash bottom) First Level (top 24 inches) Second Level (24-48 inches) Third Level (48-72 inches) Other - Description: Armoring : Yes No Sizes Depth Thickness **CROSS SECTION DESCRIPTION AND SKETCH:**

Flow split area is very broad and flat. It is heavily vegetated at the flowlines. Vegetation was too heavy to take a C/S. Based on a visual assessment, use a 50%-50% split.

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S "N" VALUE NOTES:

Left:

Channel:

Right:

INFILTRATION/TRANSMISSION LOSS SAMPLE ARIZONA DEPARTMENT OF WATER RESOURCES FLOOD MANAGEMENT SECTION	DATE: <u>9/17/91</u>
	COLLECTOR: <u>TRL</u>
	SAMPLE ID#: <u>CPS1, North</u>

LOCATION: CPS1
sheet. 1 PG 10 & 11
CHANNEL NAME: N. Side Canal
QUAD NAME:
 _____ 1/4 Section _____, T _____, R _____
COUNTY:
APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:
 Sediment Modeling (top 3 inches of wash bottom)
 First Level (top 24 inches)
 Second Level (24-48 inches)
 Third Level (48-72 inches)
 Other - Description:
 Armoring : Yes ___ No ___ Sizes _____ Depth _____ Thickness _____

CROSS SECTION DESCRIPTION AND SKETCH:

3 barrel 60x3 RC BOX Culvert
Outlet E = 13.9' Below canal 91. Lorce Road
6" slit in outlet pipe

 Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:
 Left:
 Channel:
 Right:

SAMPLE ID#: CPS1, North DATE: 9/17/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: Upstream from Sample Site RE-P4: Looking north from N. Canal Levee



PHOTOGRAPH #2: Downstream from Site RE-P5: Outlet of Box Culvert



INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 9/17/91

COLLECTOR: TRL

SAMPLE ID#: CPS1, South

LOCATION: CPS1, South Side of Canal
Sheet 1 PG 10 & 11

CHANNEL NAME:

QUAD NAME:

 1/4 Section , T , R

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

 Sediment Modeling (top 3 inches of wash bottom)

 First Level (top 24 inches)

 Second Level (24-48 inches)

 Third Level (48-72 inches)

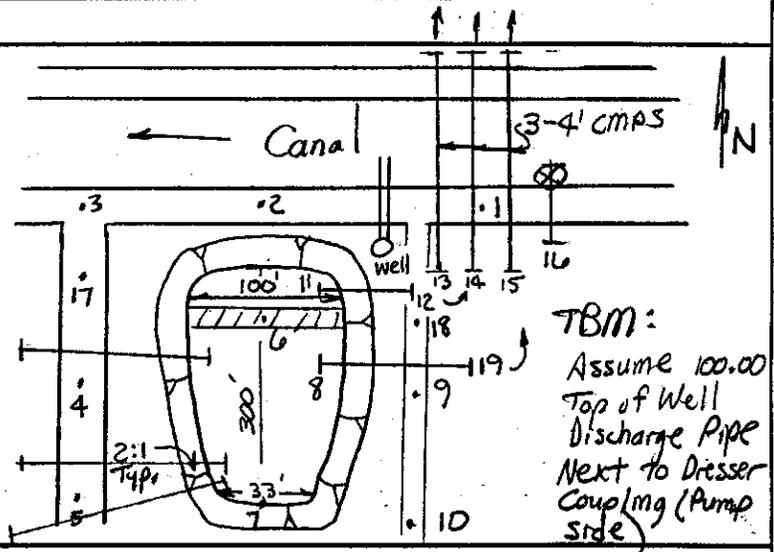
 Other - Description:

 Armoring : Yes No Sizes Depth Thickness

CROSS SECTION DESCRIPTION AND SKETCH:

Pt.	Elev.	Pt.	Elev.
1	100.7	11	13.5 (30" CMP)
2	102.0	12	90.5 " "
3	100.5	13	88.2
4	97.1	14	88.2
5	99.2	15	88.2
6	89.8	16	90.4 (3' CMP)
7	90.2	17	90.1
27" S.P. - 8	92.5	18	99.0
9	100.1	19	90.4 (27" S.P.)

Use at least 8 points for HEC1 RX, RY Cards



MANNING'S "N" VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CPS1, South DATE: 9/17/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: Upstream from Sample Site RE-P10: Looking north at Culvert Inlets



PHOTOGRAPH #2: Downstream from Site RE-P11: Looking South at Detention Basins



SAMPLE ID#: PC51, South DATE: 9/17/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: Left Channel Bank and Left Overbank RE-P12: *Looking West along Canal Five*



PHOTOGRAPH #4: Right Channel Bank and Right Overbank RE-P13: *Looking South along inlet channel*



SAMPLE ID#: CPS4, South DATE: 9/17/91 COLLEC-
TOR: TRL

PHOTOGRAPH #5: ~~Wash showing Sample Area~~ RE-14: *Looking East along S. Canal Bank*



PHOTOGRAPH #6: Close-up of Sample Hole and Identified Layers

INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 9/17/91

COLLECTOR: TRL

SAMPLE ID#: CPSZ (North Side)

LOCATION: CPSZ

CHANNEL NAME: North Bank of Canal (D/S)

QUAD NAME:

_____ 1/4 Section _____, T _____, R _____

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

_____ Sediment Modeling (top 3 inches of wash bottom)

_____ First Level (top 24 inches)

_____ Second Level (24-48 inches)

_____ Third Level (48-72 inches)

_____ Other - Description:

_____ Armoring : Yes ___ No ___ Sizes _____ Depth _____ Thickness

CROSS SECTION DESCRIPTION AND SKETCH:

36" CMP, No headwall

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left: \

Channel:

Right:)

SAMPLE ID#: CPS2, North DATE: 9/17/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RE-P6: Outlet of 30" CMP



PHOTOGRAPH #2: ~~Downstream from Site~~ RE-P7: Looking north from canal bank
Toward I-8



INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 9/17/91

COLLECTOR: TRL

SAMPLE ID#: CP52 (South Side)

LOCATION: CP52

Sheet 1 PG 11

CHANNEL NAME: South Side of Canal (u/s)

QUAD NAME:

 1/4 Section , T , R

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

 Sediment Modeling (top 3 inches of wash bottom)

 First Level (top 24 inches)

 Second Level (24-48 inches)

 Third Level (48-72 inches)

 Other - Description:

 Armoring : Yes No Sizes Depth Thickness

CROSS SECTION DESCRIPTION AND SKETCH:

36" CMP, No headwall
FL = 8.7' Below Top of Canal Levee

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CPS2, South DATE: 9/17/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RE-P8: Inlet of 36" CMP



PHOTOGRAPH #2: Downstream from Site RE-P9: Looking south from Canal Levee



INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 9/17/91

COLLECTOR: TRL

SAMPLE ID#: CPS3, South

LOCATION: CPS3, South

Sheet 1 PG 13 & 15

CHANNEL NAME:

QUAD NAME:

 1/4 Section , T , R

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

 Sediment Modeling (top 3 inches of wash bottom)

 First Level (top 24 inches)

 Second Level (24-48 inches)

 Third Level (48-72 inches)

 Other - Description:

 Armoring : Yes No Sizes Depth Thickness

CROSS SECTION DESCRIPTION AND SKETCH:

#E = 13.3' Below top of south levee
2-48" CMP's w/ Headwall

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP53, South DATE: 9/17/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: Upstream from Sample Site. RF-P1: Looking D/s at culverts



PHOTOGRAPH #2: Downstream from Site- RF-P2: Looking u/s from Inlet



SAMPLE ID#: CP53 DATE: 9/17/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: Left Channel Bank and Left Overbank RF-P3: Looking u/s from Top of Force



PHOTOGRAPH #4: Right Channel Bank and Right Overbank RF-P4: Looking west from 1st Bend east of CP53, from South



INFILTRATION/TRANSMISSION LOSS SAMPLE ARIZONA DEPARTMENT OF WATER RESOURCES FLOOD MANAGEMENT SECTION	DATE: <u>9/17/91</u> COLLECTOR: <u>JRL</u> SAMPLE ID#: <u>CP53, North</u> <u>6QZ</u>
---	---

LOCATION: CP53, 6QZ
sheet 1 PG 15

CHANNEL NAME:

QUAD NAME:

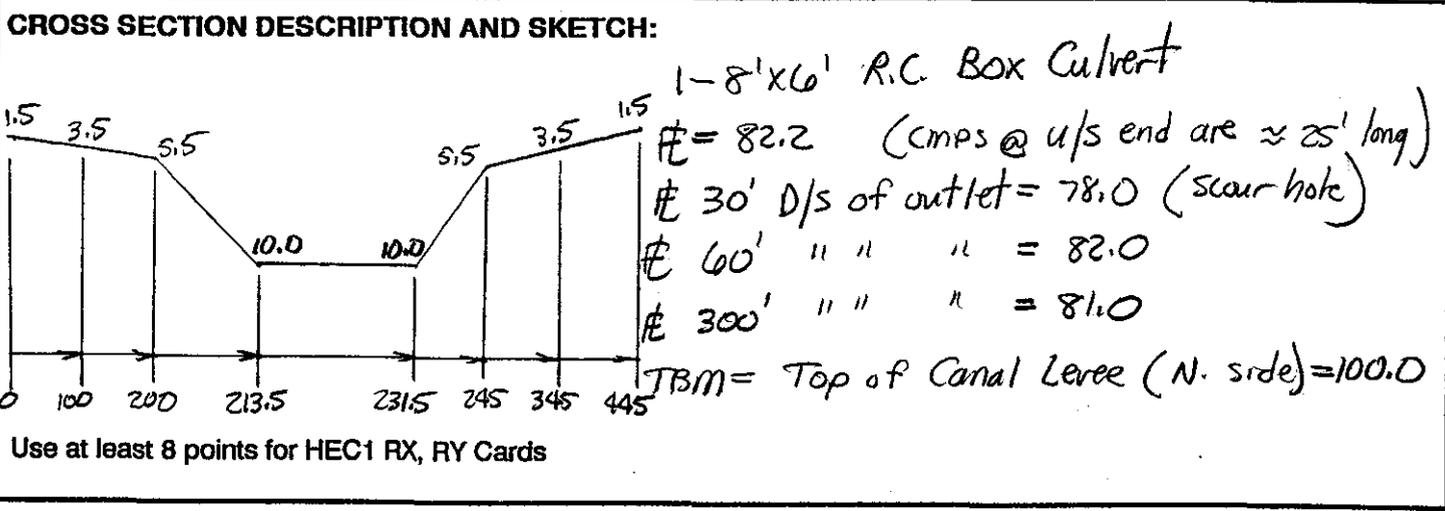
_____ 1/4 Section _____, T _____, R _____

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

Sediment Modeling (top 3 inches of wash bottom) *Channel Bed is gravelly sand with cobbles from 02"-12"*
 First Level (top 24 inches)
 Second Level (24-48 inches)
 Third Level (48-72 inches)
 Other - Description:
 Armoring : Yes ___ No ___ Sizes _____ Depth _____ Thickness _____



MANNING'S "N" VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: 6QZ, CP53 DATE: 9/19/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RF-P13 = L. U/S at D/S end of Box Culvert



PHOTOGRAPH #2: ~~Downstream from Site~~ RF-P13: L. D/S from Box Culvert



INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 9/17/91

COLLECTOR: TRL

SAMPLE ID#: CP54, South

LOCATION: CP54
sheet. 1 PG 10

CHANNEL NAME: u/s of R.R. Crossing

QUAD NAME:

 1/4 Section , T , R

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

 Sediment Modeling (top 3 inches of wash bottom)

 First Level (top 24 inches)

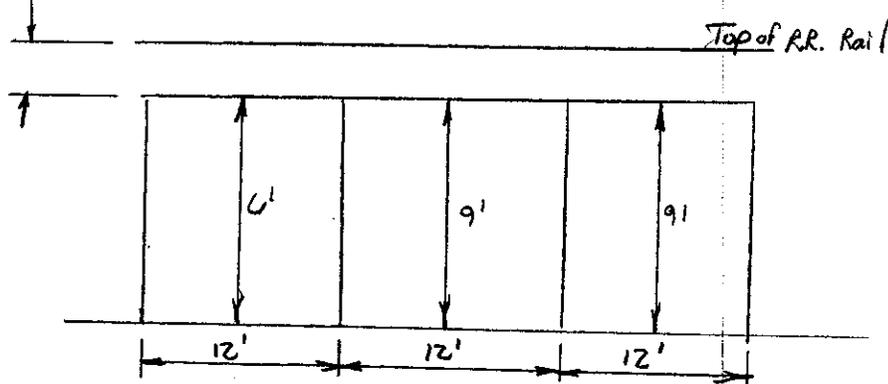
 Second Level (24-48 inches)

 Third Level (48-72 inches)

 Other - Description:

 Armoring : Yes No Sizes Depth Thickness

CROSS SECTION DESCRIPTION AND SKETCH:



Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP54, South DATE: 9/17/91 COLLEC-
TOR: JRL

PHOTOGRAPH #1: Upstream from Sample Site - RD-P24 Looking D/S @ Bridge



PHOTOGRAPH #2: Downstream from Site - RE-P1 Looking East along S. Side of R.R.



SAMPLE ID#: CP54, South DATE: 9/17/91 COLLEC-
TOR: TR

PHOTOGRAPH #3: Left Channel Bank and Left Overbank — RE -P2, Looking West along S. Side of R.R.



PHOTOGRAPH #4: Right Channel Bank and Right Overbank. RE-P3 = Looking South at incoming channel (choked with vegetation)



INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 9/17/91

COLLECTOR: TR1

SAMPLE ID#: CPSS, South

LOCATION: CPSS

Sheet 1 PG 10

CHANNEL NAME: u/s of R.R. Crossing

QUAD NAME:

_____ 1/4 Section _____, T _____, R _____

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

___ Sediment Modeling (top 3 inches of wash bottom)

___ First Level (top 24 inches)

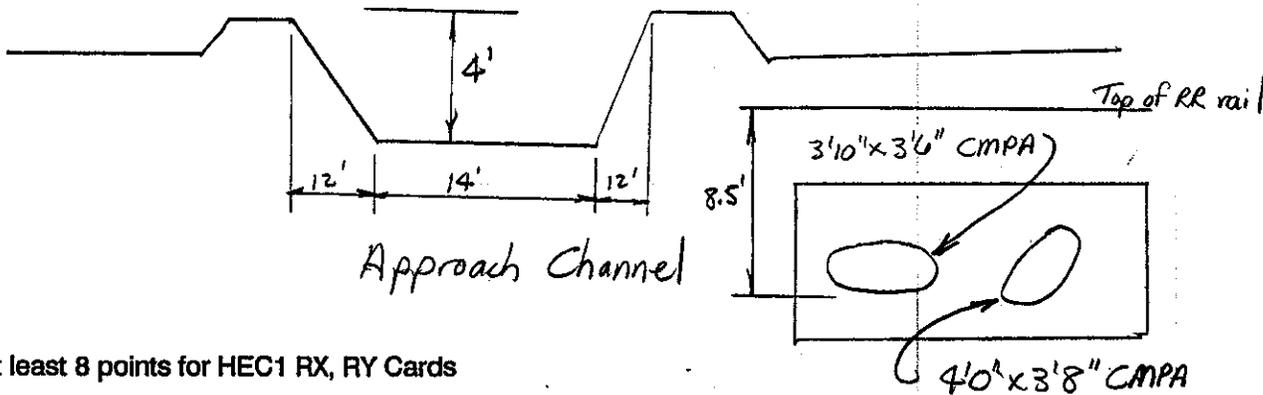
___ Second Level (24-48 inches)

___ Third Level (48-72 inches)

___ Other - Description:

___ Armoring : Yes ___ No ___ Sizes _____ Depth _____ Thickness _____

CROSS SECTION DESCRIPTION AND SKETCH:



Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CPSS, South DATE: 9/17/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: Upstream from Sample Site - RD-P19 Looking D/s @ Culverts



PHOTOGRAPH #2: Downstream from Site - RD-P20 Looking U/s @ Channel



SAMPLE ID#: CPSS, South DATE: 9/17/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: Left Channel Bank and Left Overbank RD-P21, Looking East along R.R.



PHOTOGRAPH #4: Right Channel Bank and Right Overbank RD-P22, Looking West along R.R.



SAMPLE ID#: CP55 (56), South DATE: 9/17/91 COLLEC-
TOR: TRL

PHOTOGRAPH #5: ~~Wash showing Sample Area~~ → RR Bridge @ T_c Path Between CP55 + CP56
RD - P23



PHOTOGRAPH #6: Close-up of Sample Hole and Identified Layers

INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 9/17/91

COLLECTOR: TRL

SAMPLE ID#: CPSU

LOCATION: CPSU R.R. Bridge
Sheet 1 PG 16

CHANNEL NAME:

QUAD NAME:

 1/4 Section , T , R

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

 Sediment Modeling (top 3 inches of wash bottom)

 First Level (top 24 inches)

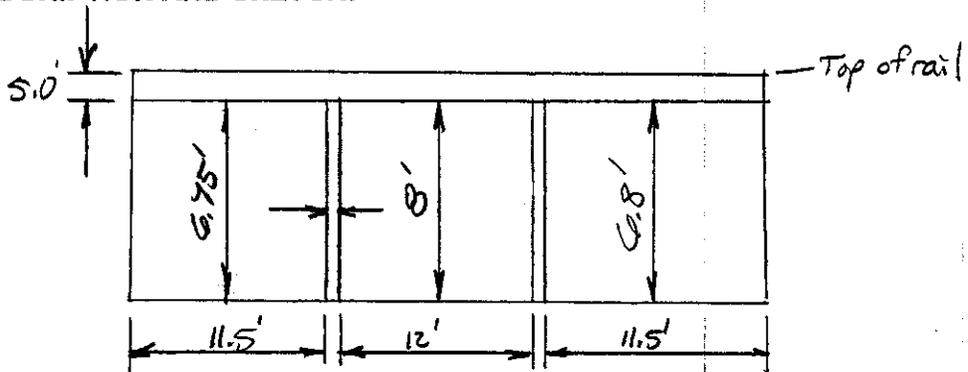
 Second Level (24-48 inches)

 Third Level (48-72 inches)

 Other - Description:

 Armoring : Yes No Sizes Depth Thickness

CROSS SECTION DESCRIPTION AND SKETCH:



Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP56 DATE: 9/17/91 COLLEC-
TOR: TPL

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RF-P19: L. D/S at inlet to bridge



PHOTOGRAPH #2: ~~Downstream from Site~~ RF-P20: L. u/s at channel



SAMPLE ID#: CPSU DATE: 9/17/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: ~~Left Channel Bank and Left Overbank~~ RF-P21: L. D/S from outlet at 5-8



PHOTOGRAPH #4: Right Channel Bank and Right Overbank

INFILTRATION/TRANSMISSION LOSS SAMPLEARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 9/24/91

COLLECTOR: TRL

SAMPLE ID#: CPS9

LOCATION: CPS9
Sheet 1 of 33

CHANNEL NAME:

QUAD NAME:

_____ 1/4 Section _____, T _____, R _____

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE: Sediment Modeling (top 3 inches of wash bottom) First Level (top 24 inches) Second Level (24-48 inches) Third Level (48-72 inches) Other - Description: Armoring : Yes No Sizes _____ Depth _____ Thickness _____**CROSS SECTION DESCRIPTION AND SKETCH:**Dip Section
1-29"x41" CMPA w/ hdwls.

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left:

Channel:

Right:

INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES

FLOOD MANAGEMENT SECTION

DATE: 10/3/91COLLECTOR: TRLSAMPLE ID#: CP82LOCATION: CP82 Bender Wash at I-8
Sheet 1, Pg. 80

CHANNEL NAME:

QUAD NAME:

 1/4 Section , T , R

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE: Sediment Modeling (top 3 inches of wash bottom) First Level (top 24 inches) Second Level (24-48 inches) Third Level (48-72 inches) Other - Description: Armoring : Yes No Sizes Depth Thickness**CROSS SECTION DESCRIPTION AND SKETCH:**

East Structure : 3-10'x4' RCBC
 East Middle Structure : 3-10'x4' RCBC
 Main (Middle) Structure : 6-10'x6' RCBC
 West Middle " : 4-10'x5' RCBC
 West Structure : 5-10'x5' RCBC

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP82 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RZ-P13 East Struct., U/s from Inlet



PHOTOGRAPH #2: ~~Downstream from Site~~ RZ-P14 East Struct., D/s at Inlet



SAMPLE ID#: CP82 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: ~~Left Channel Bank and Left Overbank~~ RZ-P15 East struct., u/s at Outlet



PHOTOGRAPH #4: ~~Right Channel Bank and Right Overbank~~ RZ-P10 East struct., D/s from Outlet



SAMPLE ID#: CP82 DATE: 10/3/91 COLLEC-
TOR: TR

PHOTOGRAPH #5: Wash showing Sample Area RZ-P17 East Middle Struct., U/s from Inlet



PHOTOGRAPH #6: Close-up of Sample Hole and Identified Layers RZ-P18 East Middle Struct., D/S at Inlet



SAMPLE ID#: CP82 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #~~7~~⁷: Wash showing Sample Area RZ - P19, East Middle Struct. u/s at outlet



PHOTOGRAPH #~~8~~⁸: Close-up of Sample Hole and Identified Layers RZ - P20, East Middle Struct., D/S from
Outlet.



SAMPLE ID#: CP82 DATE: 10/3/91 COLLEC-
TOR: TPL

PHOTOGRAPH #~~9~~: ~~Wash showing Sample Area~~ RZ-P21, Main Struct., U/s from Inlet
9



PHOTOGRAPH #~~10~~: ~~Close up of Sample Hole and Identified Layers~~ RZ-P22, Mam Struct., D/s at Inlet
10



SAMPLE ID#: CP82 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #11: ~~Wash showing Sample Area~~ RZ-P23, Mam. Struct., u/s at Outlet



PHOTOGRAPH #12: Close-up of Sample Hole and Identified Layers RZ-P24, Mam Struct., D/S from Outlet



SAMPLE ID#: CP82 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #~~4~~: Wash showing Sample Area RAA-P1, Main Struct., D/S from Outlet
13



PHOTOGRAPH #~~6~~: Close up of Sample Hole and Identified Layers RAA-P4, West Middle Struct.
14 U/S from Inlet looking West



SAMPLE ID#: CP82 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #~~15~~: Wash showing Sample Area RAA - PS, West Middle Struct.,
15 U/S from Inlet looking easterly



PHOTOGRAPH #~~16~~: Close-up of Sample Hole and Identified Layers. RAA - PC West Middle Struct.
16 D/S at Inlet.



SAMPLE ID#: CP 82 DATE: 10/3/91 COLLEC-
TOR: JRL

PHOTOGRAPH #~~17~~: Wash showing Sample Area R AA - P8, West Middle Struct.
17 U/S at Outlet



PHOTOGRAPH #~~18~~: Close-up of Sample Hole and Identified Layers RAA-P10, West Middle Struct.
18 D/S from Outlet.



SAMPLE ID#: CP82 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #~~1~~: ~~Wash showing Sample Area~~ RAA-P2, West struct., u/s from Inlet
19 looking western



PHOTOGRAPH #~~6~~: ~~Close up of Sample Hole and Identified Layers~~ RAA-P3, West Struct.
20 u/s from Inlet looking eastern



SAMPLE ID#: CP82 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #~~17~~: Left Channel Bank and Left Overbank RAA-P7, West Struct., D/S at Inlet
21



PHOTOGRAPH #~~18~~: Right Channel Bank and Right Overbank RAA-P9, West Struct., U/S at Outlet
22



SAMPLE ID#: CP82 DATE: 10/3/91 COLLEC-
TOR: IRL

PHOTOGRAPH #3: ~~Left Channel Bank and Left Overbank~~ RAA-P11, West Struct., D/s from Outlet
21



PHOTOGRAPH #4: Right Channel Bank and Right Overbank

INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 9/21/91

COLLECTOR: TRL

SAMPLE ID#: CP117

LOCATION: CP117 Possible Split Flow Location - NO Split TRL
12/7/91

CHANNEL NAME: CP117

QUAD NAME:

____ 1/4 Section _____, T _____, R _____

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

____ Sediment Modeling (top 3 inches of wash bottom)

____ First Level (top 24 inches)

____ Second Level (24-48 inches)

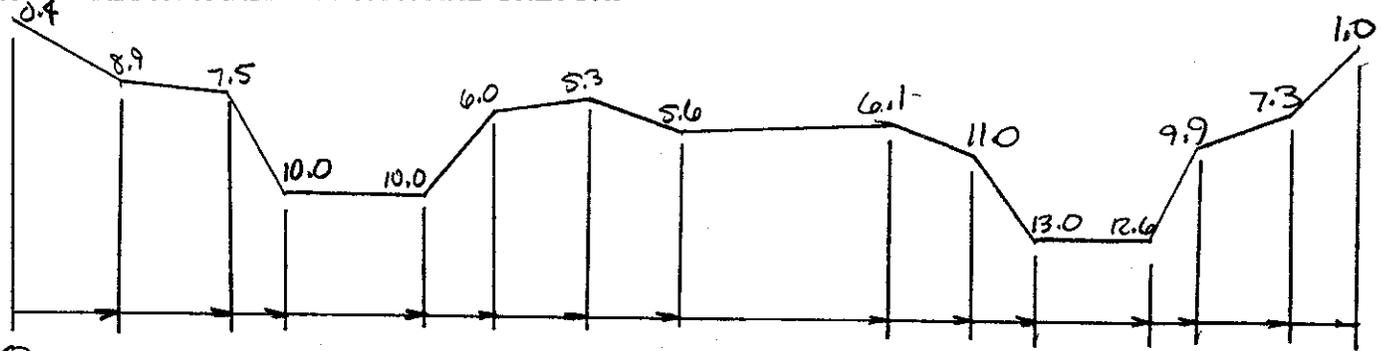
____ Third Level (48-72 inches)

____ Other - Description:

____ Armoring : Yes ____ No ____ Sizes _____ Depth _____ Thickness

*Left Channel Bed = Coarse Sand
O/B's = Silt
Right Channel Bed = Gravelly Sand*

CROSS SECTION DESCRIPTION AND SKETCH:



Use at least 8 points for HEC1 RX, RY Cards

Slopes not shot.

MANNING'S 'N' VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP117 DATE: 9/21/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: Upstream from Sample Site RJ-P2
Left Channel



PHOTOGRAPH #2: Downstream from Site RJ-P3
Left Channel



SAMPLE ID#: CP117 DATE: 9/21/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: Left Channel Bank and Left Overbank RJ-P4
Left Channel LO/B



PHOTOGRAPH #4: Right-Channel Bank and Right Overbank. RJ-P22
Right Channel R o/B



SAMPLE ID#: CP117 DATE: 9/21/91 COLLEC-
TOR: JRL

PHOTOGRAPH #5: Wash showing Sample Area
Right Channel # 4/s RI-P23



PHOTOGRAPH #6: Close-up of Sample Hole and Identified Layers
Right Channel # D/s RI-P24



SAMPLE ID#: CP117 DATE: 9/21/91 COLLEC-
TOR: TRL

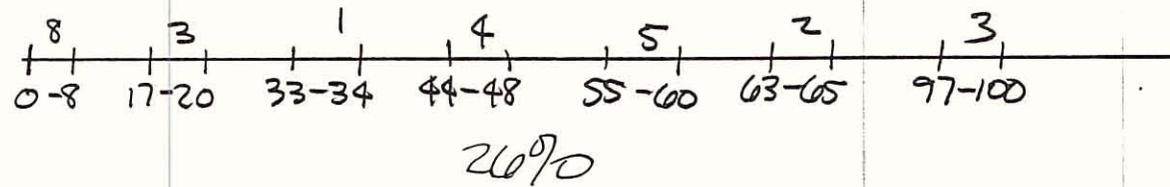
PHOTOGRAPH #/ #: ~~Wash showing Sample Area~~ RI-P1
7 Divider Area D/S.



PHOTOGRAPH #/ #: Close-up of Sample Hole and Identified Layers
8

SAMPLE ID#: CP117 DATE: 9/21/91 COLLEC-
TOR: TRL

VEGETATION DESCRIPTION:



ADDITIONAL NOTES:

No evidence of recent flows

High Water Indications: Debris at _____ feet deep, Left _____ Right _____

Bank Scour _____ feet deep, Left _____ Right _____

None observed _____

VCD RJ-P5



SAMPLE ID#: CPI32 DATE: 10/3/91 COLLEC-
TOR: JRL

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RAA-P12, East Struct., U/s from Inlet



PHOTOGRAPH #2: ~~Downstream from Site~~ RAA-P13, East Struct., D/s at Inlet



SAMPLE ID#: CP132 DATE: 10/3/91 COLLEC-
TOR: JRL

PHOTOGRAPH #3: ~~Left Channel Bank and Left Overbank~~ RAA-P14, East Struct., U/S at Outlet



PHOTOGRAPH #4: ~~Right Channel Bank and Right Overbank~~ RAA-P15, East Structure, D/S from outlet



SAMPLE ID#: CP13Z DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #5: ~~Wash showing Sample Area~~ RAA-P16, West Struct., U/S from Inlet



PHOTOGRAPH #6: ~~Close up of Sample Hole and Identified Layers~~ RAA-P17, West Struct., D/S at Inlet
West end.



SAMPLE ID#: CP132 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #~~7~~: ~~Was showing Sample Area~~ RAA-P18, West Struct, D/S at Inlet East
of RAA-P17



PHOTOGRAPH #~~8~~: ~~Close up of Sample Hole and Identified Layers~~ RAA-P19, West Struct, D/S at
Inlet, East of RAA-P18



SAMPLE ID#: C.P132 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #~~9~~: ~~Wash chowing Sample Area~~ RAA-P20, West Struct., D/S at Inlet
East of RAA-P19



PHOTOGRAPH #~~10~~: ~~Close up of Sample Hole and Identified Layers~~ RAA-P21, West Struct., U/S at
Outlet, west end



SAMPLE ID#: CP132 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #~~10~~: ~~Wash showing Sample Area~~ RAA-P22, West Struct., U/S at outlet,
10 EAST OF RAA-P21



PHOTOGRAPH #~~11~~: ~~Close-up of Sample Hole and Identified Layers~~ RAA-P23, West Struct., U/S
11 at outlet, EAST OF RAA-P22



SAMPLE ID#: CP132 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #~~11~~: ~~Wash showing Sample Area~~ RAA-P24, West Struct., D/s from outlet,
12 East side of channel



PHOTOGRAPH #~~11~~: ~~Close-up of Sample Hole and Identified Layers~~ RAA-P25, West struct., D/s from
13 Outlet, west side of channel



INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES

FLOOD MANAGEMENT SECTION

DATE: 10/3/91

COLLECTOR: TRL

SAMPLE ID#: CP133

LOCATION: CP133 at Canal
Sheet 1, Pg. 77

CHANNEL NAME: CP133

QUAD NAME:

 1/4 Section , T , R

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

 Sediment Modeling (top 3 inches of wash bottom)

 First Level (top 24 inches)

 Second Level (24-48 inches)

 Third Level (48-72 inches)

 Other - Description:

 Armoring : Yes No Sizes Depth Thickness

CROSS SECTION DESCRIPTION AND SKETCH: 36" CMP

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP133
TOR: TRL

DATE: 10/3/91

COLLEC-

PHOTOGRAPH #1: Upstream from Sample Site RX-P5 Inlet of 36" CMP u/s side of Canal
Drains through N-S levee.



PHOTOGRAPH #2: Downstream from Site RX-P6 Overchute D/S at Inlet



SAMPLE ID#: CP133 DATE: 10/3/91 COLLEC-
TOR: JR

PHOTOGRAPH #3: ~~Left Channel Bank and Left Overbank~~ RX-P7 Overchute u/s from Inlet



PHOTOGRAPH #4: ~~Right Channel Bank and Right Overbank~~ RX-P8 u/s at outlet, S.W.



SAMPLE ID#: CP133 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #5: Wash showing Sample Area RX-P9 u/s at outlet S.



PHOTOGRAPH #6: Close-up of Sample Hole and Identified Layers RX-P10 u/s at outlet SE



SAMPLE ID#: CP133 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #7: ~~Left Channel Bank and Left Overbank~~ RX-P11 D/S at RR Bridge Inlet



PHOTOGRAPH #8: ~~Right Channel Bank and Right Overbank~~ RX-P23 U/S at RR Bridge Outlet



INFILTRATION/TRANSMISSION LOSS SAMPLEARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTIONDATE: 10/3/91COLLECTOR: JRLSAMPLE ID#: CP134LOCATION: CP134 BL-8 Bridge.
Sheet 1/2 Pg. 77

CHANNEL NAME:

QUAD NAME:

1/4 Section _____, T _____, R _____

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE: Sediment Modeling (top 3 inches of wash bottom) First Level (top 24 inches) Second Level (24-48 inches) Third Level (48-72 inches) Other - Description: Armoring : Yes No Sizes _____ Depth _____ Thickness _____**CROSS SECTION DESCRIPTION AND SKETCH:**

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S "N" VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP134 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: Upstream from Sample Site RX-P24 D/s at BL8 Bridge Inlet West Side



PHOTOGRAPH #2: Downstream from Site RY-P1 D/s at Inlet West Side



SAMPLE ID#: CP134 DATE: 10/3/91 COLLEC-
TOR: TR

PHOTOGRAPH #3: ~~Left Channel Bank and Left Overbank~~ RY-P2 D/S at Inlet, Middle



PHOTOGRAPH #4: ~~Right Channel Bank and Right Overbank~~ RY-P3 D/S at Inlet, East Side



SAMPLE ID#: CP134 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #5: ~~Wash showing Sample Area~~ RY-P4 D/s at Inlet, Overall



PHOTOGRAPH #6: ~~Close-up of Sample Hole and Identified Layers~~ RY-P5 u/s at outlet, West end



SAMPLE ID#: CP134 DATE: _____ COLLEC-
TOR: _____

PHOTOGRAPH #~~7~~⁷: ~~Wash showing Sample Area~~ RY-PC0 u/s at outlet, Middle West



PHOTOGRAPH #~~8~~⁸: ~~Close-up of Sample Hole and Identified Layers~~ RY-P7 u/s at outlet, Middle East



SAMPLE ID#: CP134 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #9: Wash showing Sample Area RY-P8 u/s at outlet, East End



PHOTOGRAPH #10: Close-up of Sample Hole and Identified Layers RY-P9 u/s at outlet, Overall



SAMPLE ID#: CP134 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: Wash showing Sample Area RY-P10 D/S from outlet, North.



PHOTOGRAPH #6: Close-up of Sample Hole and Identified Layers

INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES

FLOOD MANAGEMENT SECTION

DATE: 10/3/91

COLLECTOR: JRL

SAMPLE ID#: CP135

LOCATION: CP135 Canal
Sheet 1, Pg. 77

CHANNEL NAME:

QUAD NAME:

 1/4 Section , T , R

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

 Sediment Modeling (top 3 inches of wash bottom)

 First Level (top 24 inches)

 Second Level (24-48 inches)

 Third Level (48-72 inches)

 Other - Description:

 Armoring : Yes No Sizes Depth Thickness

CROSS SECTION DESCRIPTION AND SKETCH:

*3-30" CMPS w/hdwl.
Transitions to 3-6'x4' RCBC.
CMP Culvert length ≈ 30'*

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S "N" VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP135
TOR: JRL

DATE: 10/3/91

COLLEC-

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RX-P12 u/s from Inlet



PHOTOGRAPH #2: ~~Downstream from Site~~ RX-P13 D/s at Inlet



SAMPLE ID#: CP135 DATE: 10/3/91 COLLEC-
TOR: TR

PHOTOGRAPH #3: ~~Left Channel Bank and Left Overbank~~ RX-P14 u/s at outlet



PHOTOGRAPH #4: ~~Right Channel Bank and Right Overbank~~ RX-P15 D/s from outlet



SAMPLE ID#: CP135 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #5: Wash showing Sample Area RX-P10 D/S at Inlet to RR Bridge



PHOTOGRAPH #6: Close-up of Sample Hole and Identified Layers

SAMPLE ID#: CP135 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #5: Wash showing Sample-Area RX-P10 D/s at Inlet To RR Bridge



PHOTOGRAPH #6: Close-up of Sample Hole and Identified Layers

INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 10/3/91

COLLECTOR: TKL

SAMPLE ID#: CP135

LOCATION: CP135 BL-8 Bridge
Sheet 1, Pg. 78

CHANNEL NAME: CP135

QUAD NAME:

_____ 1/4 Section _____, T _____, R _____

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

_____ Sediment Modeling (top 3 inches of wash bottom)

_____ First Level (top 24 inches)

_____ Second Level (24-48 inches)

_____ Third Level (48-72 inches)

_____ Other - Description:

_____ Armoring : Yes ___ No ___ Sizes _____ Depth _____ Thichness

CROSS SECTION DESCRIPTION AND SKETCH:

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S "N" VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP135 DATE: 10/3/91 COLLEC-
TOR: JRL

PHOTOGRAPH #1: Upstream from Sample Site RY-P11 u/s at RR Bridge Outlet



PHOTOGRAPH #2: Downstream from Site RY-P12 D/S at BL8 Bridge Inlet



SAMPLE ID#: CP135 DATE: 10/3/91 COLLEC-
TOR: PR

PHOTOGRAPH #3: ~~Left Channel Bank and Left Overbank~~ RY-P13 U/s at BL8 outlet



PHOTOGRAPH #4: ~~Right Channel Bank and Right Overbank~~ RY-P14 D/s from BL8 outlet



INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 10/3/91

COLLECTOR: TRL

SAMPLE ID#: CP137

LOCATION: CP137 Canal
Sheet 1, Pg. 79

CHANNEL NAME: CP137

QUAD NAME:

 1/4 Section , T , R

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

 Sediment Modeling (top 3 inches of wash bottom)

 First Level (top 24 inches)

 Second Level (24-48 inches)

 Third Level (48-72 inches)

 Other - Description:

 Armoring : Yes No Sizes Depth Thickness

CROSS SECTION DESCRIPTION AND SKETCH:

1-60" CMP
1-54" CMP
d 1-48" CMP

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S "N" VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP136 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RY-P15 u/s from Inlet



PHOTOGRAPH #2: Downstream from Site RY-P16 D/s at Inlet



SAMPLE ID#: CPI376 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: Left Channel Bank and Left Overbank RY-P17 u/s at outlet



PHOTOGRAPH #4: Right Channel Bank and Right Overbank RY-P18 D/S at Inlet SR80
2-7' CMP's w/ hdwl.



SAMPLE ID#: CP1376 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #5: Wash showing Sample Area RY-P19 u/s at outlet SR80 crossing



PHOTOGRAPH #6: Close-up of Sample Hole and Identified Layers RY-P20 D/S from outlet SR80



INFILTRATION/TRANSMISSION LOSS SAMPLE ARIZONA DEPARTMENT OF WATER RESOURCES FLOOD MANAGEMENT SECTION	DATE: <u>10/3/91</u> COLLECTOR: <u>TRL</u> SAMPLE ID#: <u>CP138</u>
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LOCATION: CP138 SR 85, West + East Crossing
Sheet 1, Pg. 79

CHANNEL NAME: CP138

QUAD NAME:
 _____ 1/4 Section _____, T _____, R _____

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

Sediment Modeling (top 3 inches of wash bottom)

First Level (top 24 inches)

Second Level (24-48 inches)

Third Level (48-72 inches)

Other - Description:

Armoring : Yes No Sizes _____ Depth _____ Thickness _____

CROSS SECTION DESCRIPTION AND SKETCH:

SR-85 West Crossing - 2-6'x4' RCBC

SR-85 East Crossing - 3-10'x7' RCBC

RR Bridge, East - 3 span 13'x6.5' Typ.
Channel on 30° skew to bridge

RR Bridge, West - 2 span 13'x6.5' Typ
Channel at 20° skew to bridge.
Bridge ⊥ to RR, both cases.

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP138 DATE: 10/3/91 COLLEC-
TOR: JRL

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RY-P21 SR85 West, u/s from Inlet



PHOTOGRAPH #2: ~~Downstream from Site~~ RY-P22 SR85, D/S from Inlet



SAMPLE ID#: CP138 DATE: 10/3/91 COLLEC-
TOR: JRL

PHOTOGRAPH #3: ~~Left Channel Bank and Left Overbank~~ RY-P23 SR85 West, u/s at Outlet



PHOTOGRAPH #4: ~~Right Channel Bank and Right Overbank~~ RY-P24 SR85 West, D/s from Outlet



SAMPLE ID#: CP1386 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #5: ~~Wash showing Sample Area~~ RZ-P1 SR85 East, u/s from Inlet



PHOTOGRAPH #6: ~~Close-up of Sample Hole and Identified Layers~~ RZ-P2 SR85 East, D/S at Inlet



SAMPLE ID#: CP1386 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #7: Wash showing Sample Area RZ-P3 SR85 East U/S at Outlet



PHOTOGRAPH #8: Close-up of Sample Hole and Identified Layers RZ-P4 SR85 East D/S from Outlet



SAMPLE ID#: CP1386 DATE: 10/3/91 COLLEC-
TOR: JRL

PHOTOGRAPH #9: Wash showing Sample Area RZ-PS RR East, u/s from Inlet



PHOTOGRAPH #10: Close-up of Sample Hole and Identified Layers RE-PC RREast, D/S at RR Inlet



SAMPLE ID#: CP/386 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #~~11~~: Wash showing Sample Area R ~~Z~~-P7 RR East, U/S at Outlet



PHOTOGRAPH #~~12~~: Close-up of Sample Hole and Identified Layers RZ-P8 RR East, D/S from Outlet



SAMPLE ID#: CP138 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #~~13~~: Wash showing Sample Area RZ-P9 West RR, U/S from Inlet
13



PHOTOGRAPH #~~14~~: Close-up of Sample Hole and Identified Layers RZ-P10 RR West, D/S at Inlet
14



SAMPLE ID#: CPT38 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #/15: ~~Wash showing Sample Area~~ RZ-P11 RR West, U/s at outlet



PHOTOGRAPH #/16: ~~Close up of Sample Hole and Identified Layers~~ RZ-P12 RR West, D/s from Outlet



INFILTRATION/TRANSMISSION LOSS SAMPLE

ARIZONA DEPARTMENT OF WATER RESOURCES
FLOOD MANAGEMENT SECTION

DATE: 10/3/91

COLLECTOR: TRL

SAMPLE ID#: CP14Z

LOCATION: CP14Z - R.R. and Canal East of I-8
Sheet 1, Pg. 70

CHANNEL NAME:

QUAD NAME:

_____ 1/4 Section _____, T _____, R _____

COUNTY:

APPROXIMATE ELEVATION (MSL):

SAMPLE TYPE:

_____ Sediment Modeling (top 3 inches of wash bottom)

_____ First Level (top 24 inches)

_____ Second Level (24-48 inches)

_____ Third Level (48-72 inches)

_____ Other - Description:

_____ Armoring : Yes ___ No ___ Sizes _____ Depth _____ Thickness _____

CROSS SECTION DESCRIPTION AND SKETCH:

Use at least 8 points for HEC1 RX, RY Cards

MANNING'S 'N' VALUE NOTES:

Left:

Channel:

Right:

SAMPLE ID#: CP142 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #1: ~~Upstream from Sample Site~~ RX-P1, U/S at I-8 RCBC outlet



PHOTOGRAPH #2: Downstream from Site RX-P2 D/s from RCBC outlet



SAMPLE ID#: CP142 DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #3: ~~Left Channel Bank and Left Overbank~~ RX-P3 D/S at Inlet



PHOTOGRAPH #4: ~~Right Channel Bank and Right Overbank~~ RX-P4 U/S from TTB above inlet



SAMPLE ID#: CP142 DATE: 10/3/91 COLLEC-
TOR: TR

PHOTOGRAPH #5: Wash showing Sample Area RX-P17 D/S at Inlet to RR Bridge



PHOTOGRAPH #6: Close-up of Sample Hole and Identified Layers RX-P18 U/S at outlet of RR Bridge



SAMPLE ID#: CP14Z DATE: 10/3/91 COLLEC-
TOR: JRL

PHOTOGRAPH # ~~7~~ 7: ~~Left Channel Bank and Left Overbank~~ RX-P19 U/S from outlet of RR Bridge
Looking west.

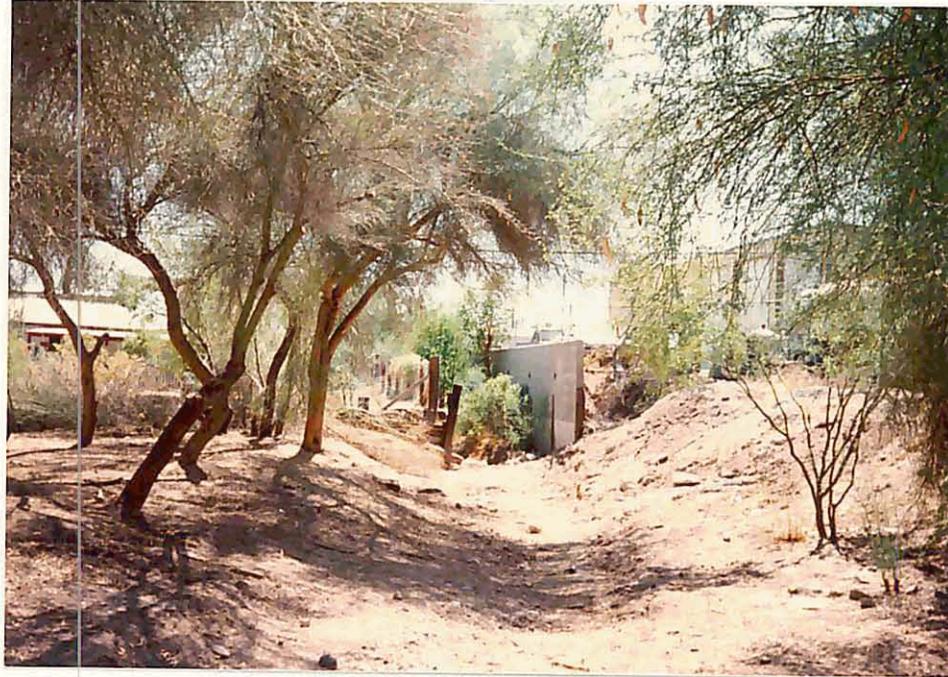


PHOTOGRAPH # ~~8~~ 8: ~~Right Channel Bank and Right Overbank~~ RX-P20 D/S at Inlet to Business Loop-8
Box culvert



SAMPLE ID#: CP14Z DATE: 10/3/91 COLLEC-
TOR: TRL

PHOTOGRAPH #~~8~~: Wash showing Sample Area RX-P21 u/s of outlet from BL-8 B.C.



PHOTOGRAPH #~~8~~: Close-up of Sample Hole and Identified Layers RX-P22 D/S from outlet from BL-8 B.C.
10 from Papago Street

