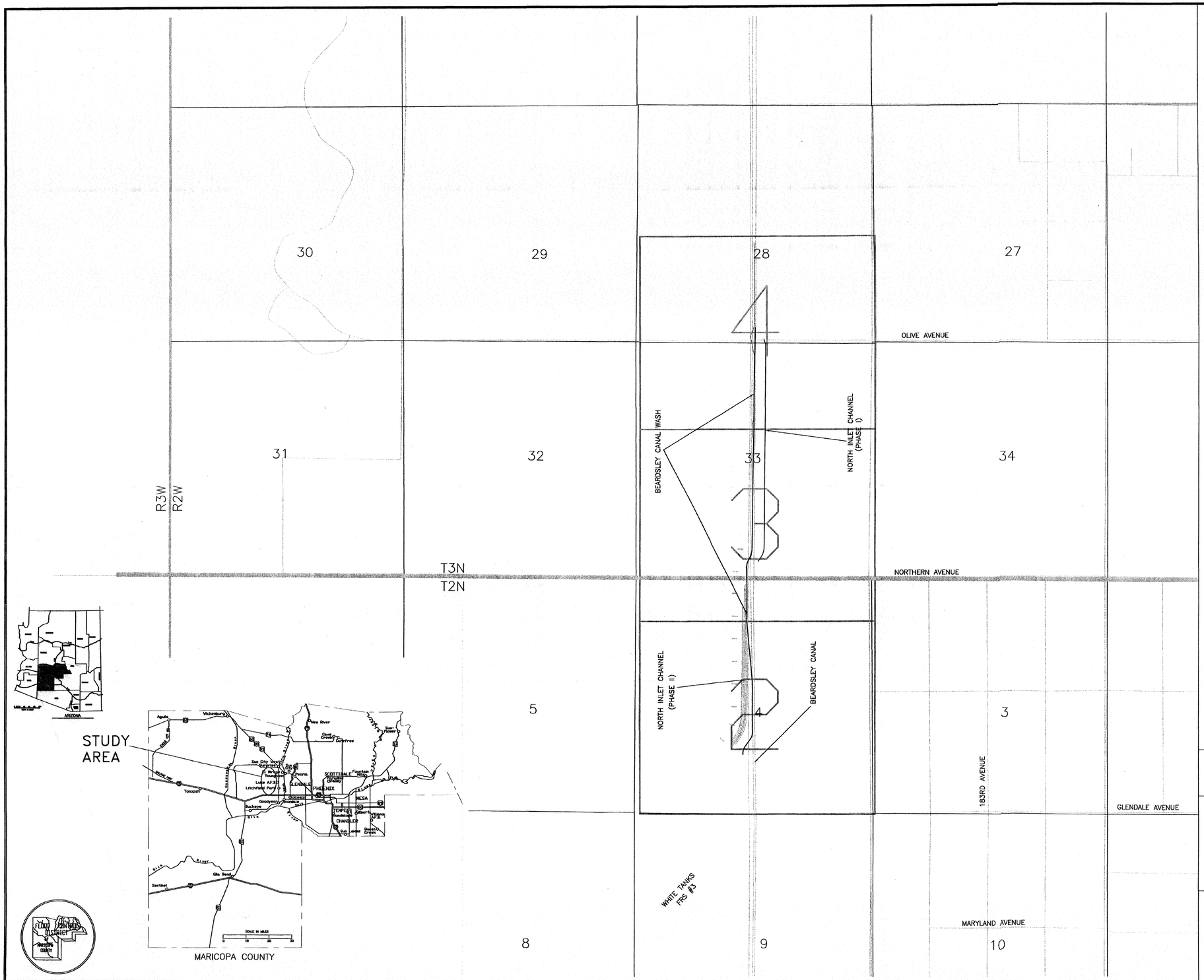


LEGEND

SECTION BOUNDARY

STUDY REACH AND REACH ID — Beardsley Canal Wash / North Inlet Channel

ROAD — Northern Avenue

SHEET OUTLINE AND NUMBER — 2

NOTES

1. HORIZONTAL PROJECTION IS ARIZONA STATE PLANE CENTRAL ZONE, NORTH AMERICAN DATUM OF 1983.
2. ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD88= NGVD29 +1.78)

STATEMENT OF PROFESSIONAL REGISTRATION

THE CLOMR WORK MAPS WERE PREPARED UNDER MY DIRECT SUPERVISION USING FEMA APPROVED HYDROLOGY AND 1-FOOT CONTOUR MAPPING PROVIDED BY FCDMC. PROJECT BENCHMARKS AND CONTROL POINTS SURVEY DATA WERE SURVEYED BY CONSULTANT ENGINEERING INC.

SCALE
1000' 0' 1000' 2000'

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

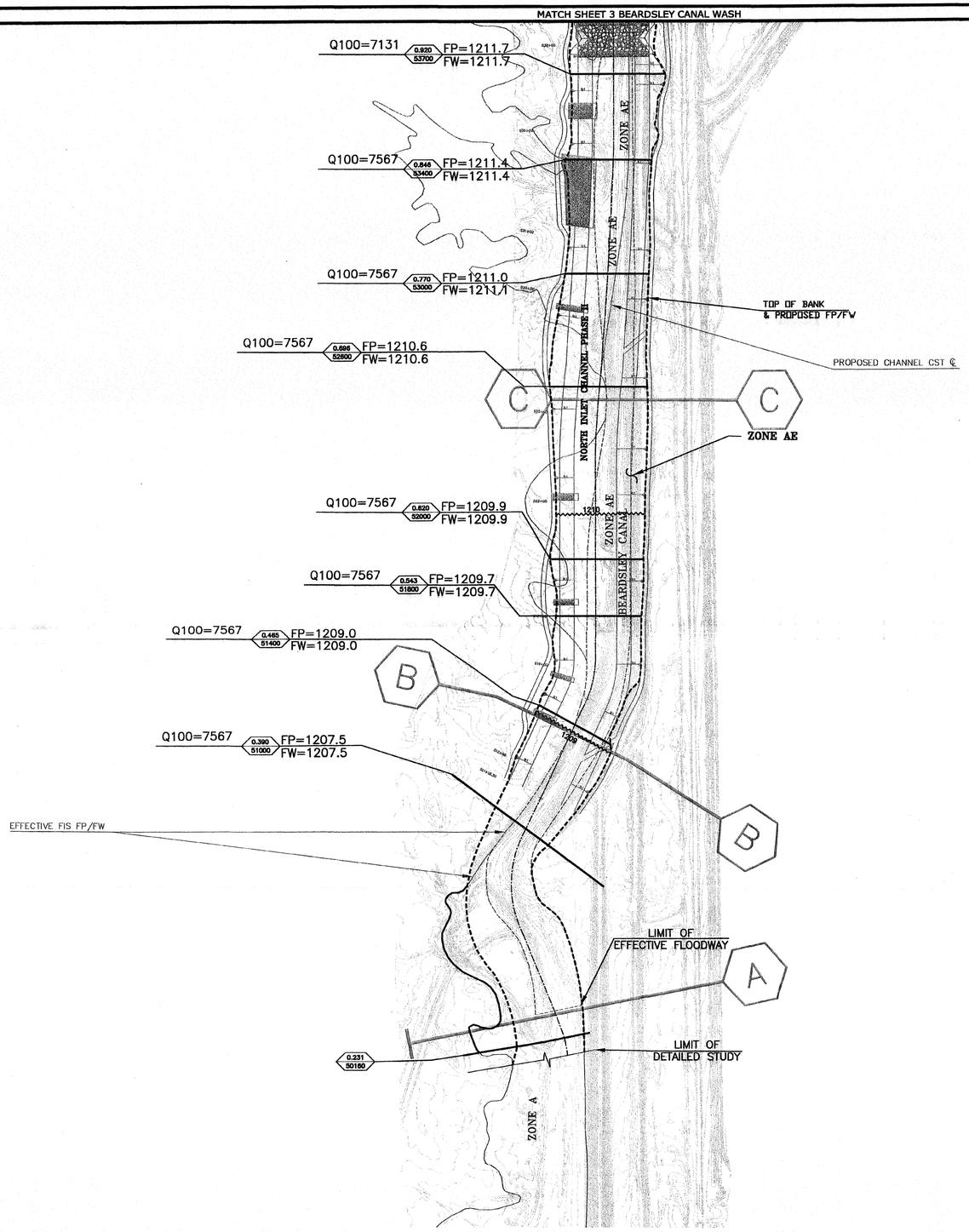
NORTH INLET CHANNEL IMPROVEMENTS
BEARDSLEY CANAL WASH

W.T. #3 CLOMR
FCD 2004C045
ASSIGNMENT NO. 2
OCTOBER 2008

WOOD/PATEL
LAND DEVELOPMENT • WATER RESOURCES
TRANSPORTATION/TRAFFIC
WATER / WASTEWATER • SURVEYING
CONSTRUCTION MANAGEMENT
(602) 335-8500
PHOENIX • MESA • TUCSON
IN ASSOCIATION WITH

EXHIBIT C - STUDY WORK MAPS
C1 BEARDSLEY CANAL WASH

H:\2004Projects\042284.02_North Inlet Channel CLOMR\CLOMR\TDN\CD_October08\AutoCad\BCH\DESIGN\ NIC-SHEET01.dwg



LEGEND

100-YR FEMA FLOODPLAIN BOUNDARY	
100-YR FEMA FLOODWAY BOUNDARY	
EFFECTIVE FIRM CROSS-SECTIONS	
EFFECTIVE FIRM CROSS-SECTION ID	I
100-YR FLOODPLAIN BOUNDARY (PROPOSED CONDITION, DATED 2007)	
100-YR FLOODWAY (PROPOSED CONDITION, DATED 2007)	
CROSS SECTION NUMBER	0.390 / 51000
FEMA ZONE DESIGNATIONS	ZONE AE
BASE FLOOD ELEVATION	1213
100 YR PEAK DISCHARGE =7567(cubic feet per second)	Q100=7567
FLOODPLAIN WATER SURFACE ELEVATION = 1212	FP=1212.0
FLOODWAY WATER SURFACE ELEVATION = 1212	FW=1212.0
HYDRAULIC BASELINE/FLOW LINE	
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 | 7 / 13 | 18

NOTES

NOTE: ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.

NOTE: NAVD88 = NGVD29 +1.78

ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS)

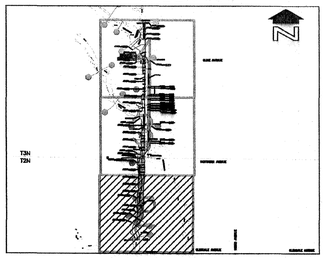
Project Benchmark	Point Marker	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
J265	⊕	928828.31	531580.08	1231.05

(Coordinates shifted South 114' and West 65' due to surface coordinates versus grid-projection coordinates)

(Not Shown, Outside Boundary of Sheet)

(Additional Project Benchmarks and Control Points are shown on Record of Survey dated 10-22-04 by Consulting Engineering Inc. CEI)
(Point Located on Sheet 3 of 4 North Inlet Channel Improvements)

SHEET INDEX MAP



200' 0' 200' 400'
SCALE: 1"= 200 FEET
CONTOUR INTERVAL = 1 FOOT

AS-BUILT

Registered Professional Engineer (Civil)
CERTIFICATE NUMBER
43646
JEFFERY C.
SHELTON
Date Signed 12/16/11
ARIZONA, U.S.A.

EXPIRES 3/31/12

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY

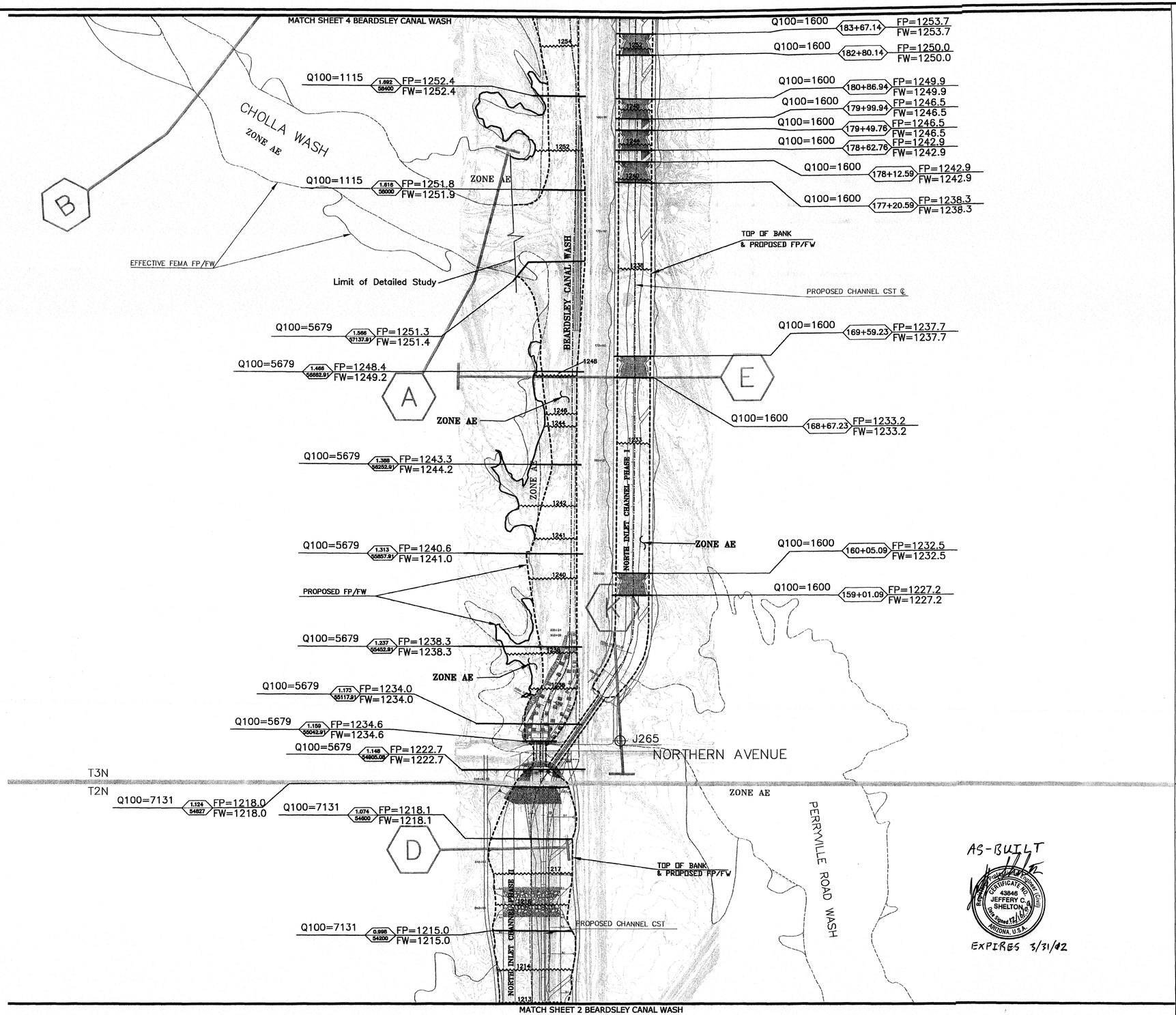
NORTH INLET CHANNEL IMPROVEMENTS
BEARDSLEY CANAL WASH
W.T. #3 CLOMR
FCD 2004C045
ASSIGNMENT NO. 2
OCTOBER 2008

Registered Professional Engineer (Civil)
CERTIFICATE NUMBER
24999
JEFFREY R.
MINCH
Date Signed 12/16/11
ARIZONA, U.S.A.

EXPIRES 09-30-09

WOOD/PATEL
LAND DEVELOPMENT ★ WATER RESOURCES
TRANSPORTATION/TRAFFIC
WATER/WASTEWATER ★ SURVEYING
CONSTRUCTION MANAGEMENT
(602) 336-8300
PHOENIX ★ MESA ★ TUCSON

EXHIBIT C - STUDY WORK MAPS
C1 BEARDSLEY CANAL WASH



MATCH SHEET 2 BEARDSLEY CANAL WASH

LEGEND

100-YR FEMA FLOODPLAIN BOUNDARY	
100-YR FEMA FLOODWAY BOUNDARY	
EFFECTIVE FIRM CROSS-SECTIONS	
EFFECTIVE FIRM CROSS-SECTION ID	E
100-YR FLOODPLAIN BOUNDARY (PROPOSED CONDITION, DATED 2007)	
100-YR FLOODWAY (PROPOSED CONDITION, DATED 2007)	
CROSS SECTION	1.313 55857.91
FEMA ZONE DESIGNATIONS	ZONE AE
BASE FLOOD ELEVATION	1241
100 YR PEAK DISCHARGE =1600(cubic feet per second)	Q100=1600
FLOODPLAIN WATER SURFACE ELEVATION = 1238.3	FP=1238.3
FLOODWAY WATER SURFACE ELEVATION = 1238.3	FW=1238.3
HYDRAULIC BASELINE/FLOW LINE	
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 | 7 / 13 | 18

NOTES

NOTE: ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.

NOTE: NAVD88 = NGVD29 +1.78

ELEVATION REFERENCE MARKS

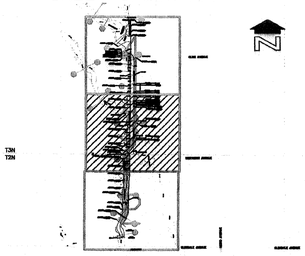
GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

Project Benchmark	Point Marker	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
J265	⊕	928828.31	531580.08	1231.05

(Coordinates shifted South 114' and West 65' due to surface coordinates versus grid-projection coordinates)

(Additional Project Benchmarks and Control Points are shown on Record of Survey dated 10-22-04 by Consulting Engineering Inc. CEI)
(Point Located on Sheet 3 of 4 North Inlet Channel Improvements)

SHEET INDEX MAP



200' 0' 200' 400'
SCALE: 1"= 200 FEET
CONTOUR INTERVAL = 1 FOOT

Registered Professional Engineer (Civil)
CERTIFICATE NO. 24999
JEFFREY R. MINCH
Date Signed 11/1/08
ARIZONA, U.S.A.
EXPIRES 09-30-09

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NORTH INLET CHANNEL IMPROVEMENTS BEARDSLEY CANAL WASH

W.T. #3 CLOMR
FCD 2004C045
ASSIGNMENT NO. 2
OCTOBER 2008

WOOD/PATEL
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FLOOD CONTROL ▪ HYDROLOGY
WATER/WASTEWATER ▪ SURVEYING
CONSTRUCTION MANAGEMENT
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PHOENIX ▪ MESA ▪ TUCSON

EXHIBIT C - STUDY WORK MAPS
C1 BEARDSLEY CANAL WASH

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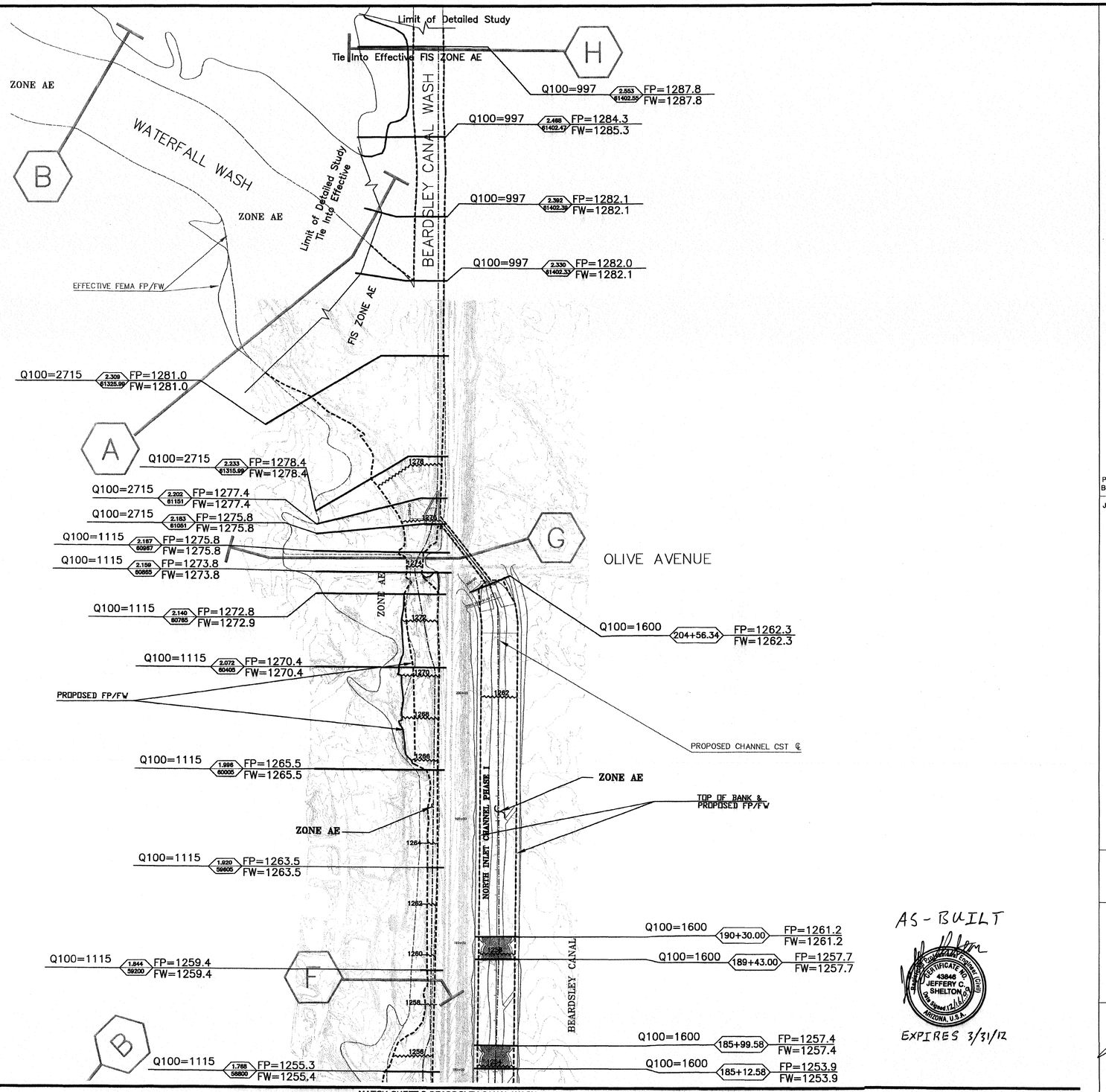


LEGEND

100-YR FEMA FLOODPLAIN BOUNDARY	
100-YR FEMA FLOODWAY BOUNDARY	
EFFECTIVE FIRM CROSS-SECTIONS	
EFFECTIVE FIRM CROSS-SECTION ID	A
100-YR FLOODPLAIN BOUNDARY (PROPOSED CONDITION, DATED 2007)	
100-YR FLOODWAY (PROPOSED CONDITION, DATED 2007)	
CROSS SECTION	2.309 @1325.99
FEMA ZONE DESIGNATIONS	ZONE AE
BASE FLOOD ELEVATION	1280
FLOODPLAIN WATER SURFACE ELEVATION = 1238.3	FP=1238.3
FLOODWAY WATER SURFACE ELEVATION = 1238.3	FW=1238.3
100 YR PEAK DISCHARGE =1600(cubic feet per second)	Q100=1600
HYDRAULIC BASELINE/FLOW LINE	
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 | 7 / 13 | 18

NOTES

NOTE: ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.

NOTE: NAVD88 = NGVD29 +1.78

ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

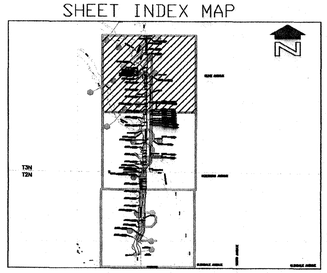
Project Benchmark	Point Marker	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
J265	⊕	928828.31	531580.08	1231.05

(Coordinates shifted South 114' and West 65' due to surface coordinates versus grid-projection coordinates)

(Not Shown, Outside Boundary of Sheet)

(Additional Project Benchmarks and Control Points are shown on Record of Survey dated 10-22-04 by Consulting Engineering Inc. CEI) (Point Located on Sheet 3 of 4 North Inlet Channel Improvements)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200 FEET

CONTOUR INTERVAL = 1 FOOT

AS-BUILT

Registered Professional Engineer (Civil) CERTIFICATE NO. 43846 JEFFERY C. SHELTON As Signed 12/1/11 ARIZONA, U.S.A.

EXPIRES 3/31/12

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NORTH INLET CHANNEL IMPROVEMENTS
BEARDSLEY CANAL WASH

W.T. #3 CLOMR
FCD 2004C045
ASSIGNMENT NO. 2
OCTOBER 2008

Registered Professional Engineer (Civil) CERTIFICATE NO. 24999 JEFFREY R. B. MINCH As Signed 12/31/09 ARIZONA, U.S.A.

EXPIRES 09-30-09

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EXHIBIT C - STUDY WORK MAPS
C1 BEARDSLEY CANAL WASH

SHEET 4 OF 4

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