

Exhibit 1: Floodplain Maximum WSEL Maps



CITY OF SCOTTSDALE

GRANITE REEF WATERSHED

DRAINAGE AND FLOOD CONTROL IMPROVEMENTS

GRANITE REEF WASH CONDITIONAL LETTER OF MAP REVISION (CLOMR)

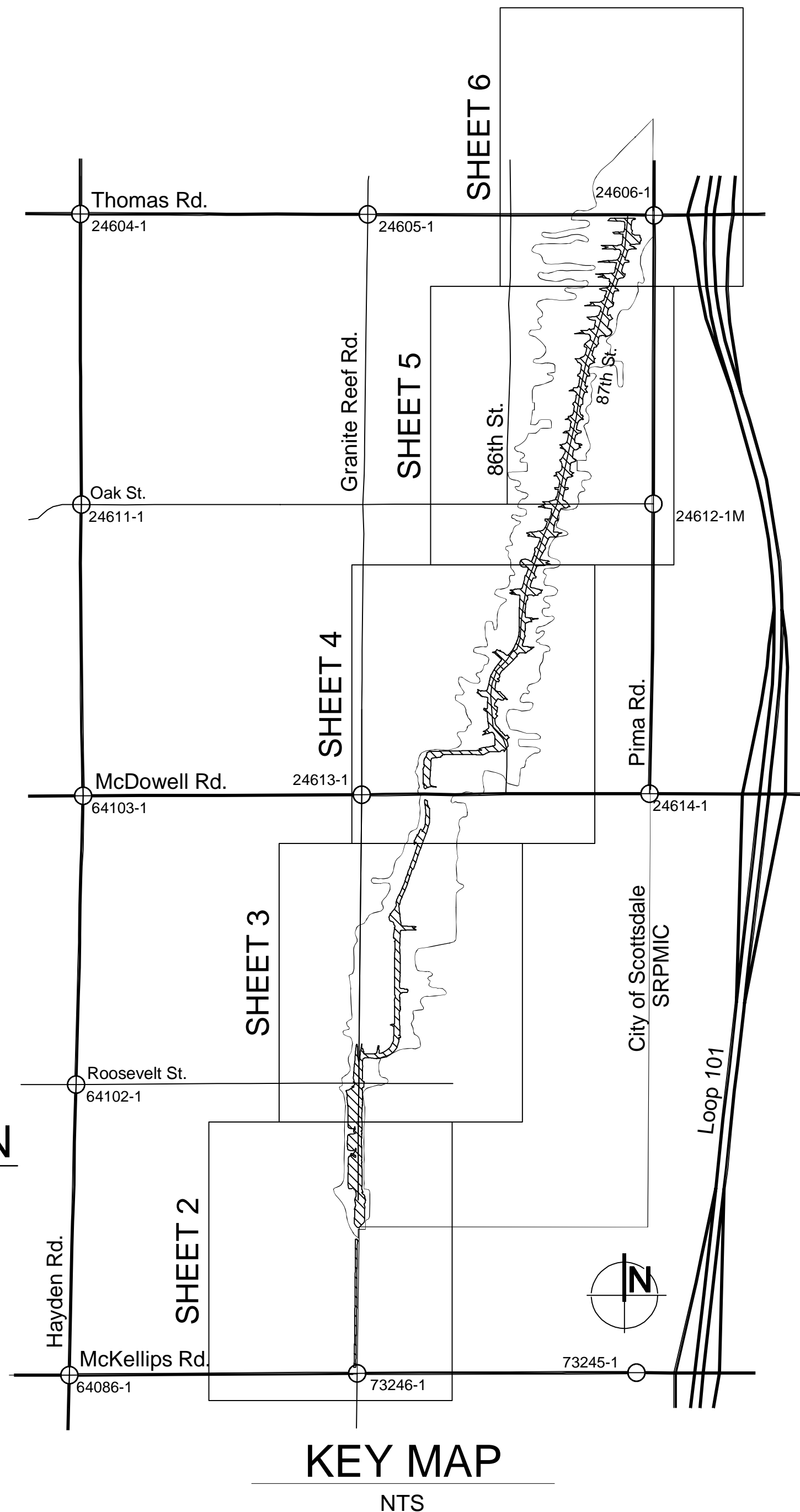
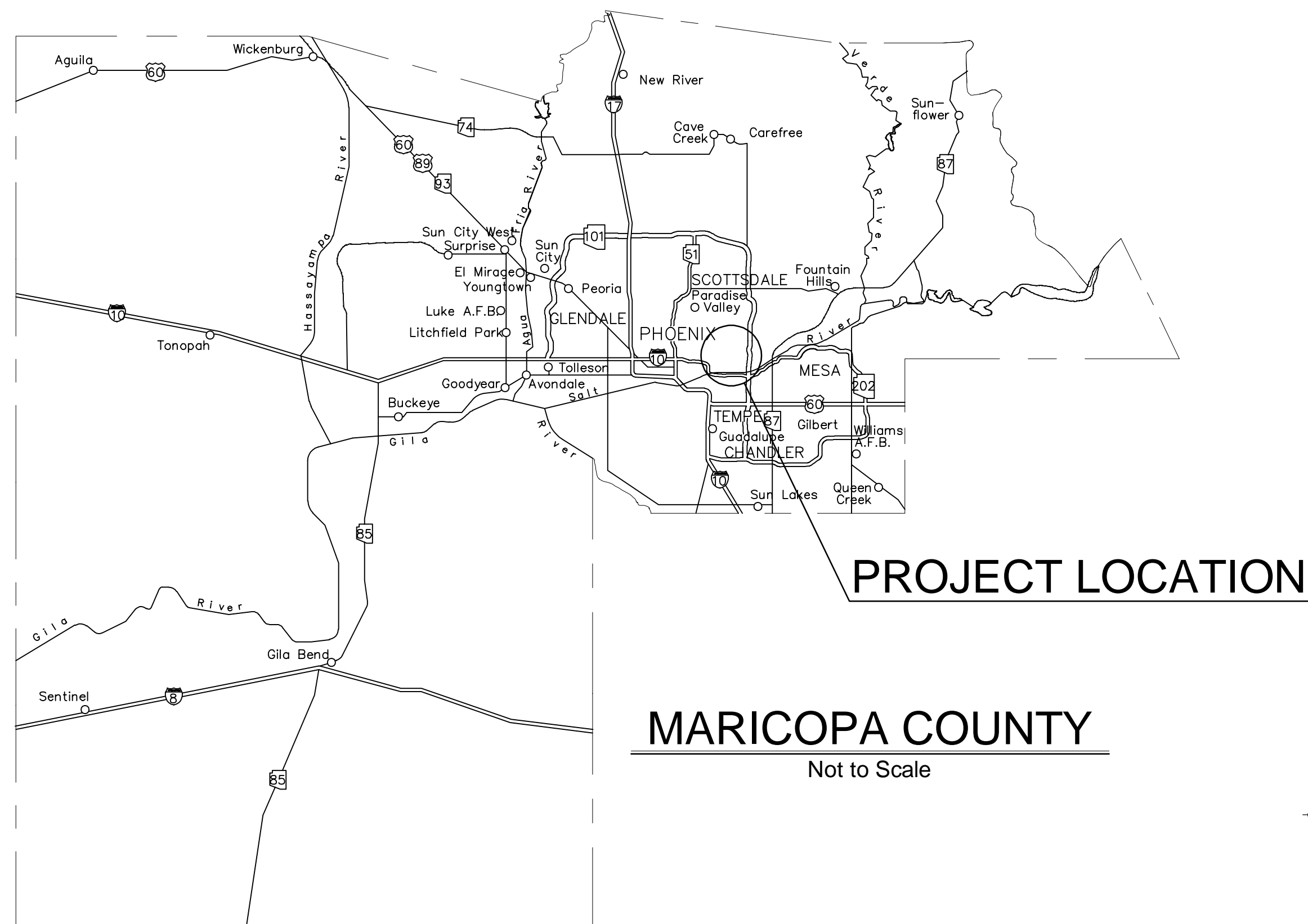
COS CONTRACT NO. 2010-140-COS

NOVEMBER 2022

Elevation Reference Marks

Label	Location	Northing*	Eastings*	Elevation**	Latitude***	Longitude***	Monument Description
		(ft)	(ft)	(ft)	(dms)	(dms)	
73246-1	McKellips Road	891,731.330	704,894.323	1188.428	33°27'04.68193" N	111°54'02.23171" W	FD 2 3/4" MCDOT BC IN HH 0.4' DN STAMPED "TIN R4E D.O.T. MARICOPA COUNTY 1/4 S1 S12 LS" NOTE-4FT S OF CL MCKELLIPS RD
24612-1M	Oak Street & Pima Road	899,666.047	707,576.208	1227.175	33°28'23.18418" N	111°53'30.55471" W	FD 1" IP 0.4' DN W/O ID, SET ABOVE IN CONC A 2" MARICOPA COUNTY AL CAP FL STAMPED "T2N 1/4 R4E R5E S36 S31 2004 RLS 21782
24613-1	Granite Reef Road & McDowell Road	897,018.948	704,929.626	1217.945	33°27'56.99853" N	111°54'01.80532" W	FD 4" MC ENG DPT BC IN HH 0.5' DN NO STAMPING
24606-1	Thomas Road & Pima Road	902,307.155	707,586.798	1225.995	33°28'49.31568" N	111°53'30.42221" W	FD 3" PHOENIX BC IN HH 1' DN NO STAMPING

* Northing and Eastings are based on State Plane Coordinate Arizona Central
 ** Elevations are based on North American Vertical Datum of 1988 (NAVD88)



IMPACTED COMMUNITIES

CITY OF SCOTTSDALE

LEGEND

- Elevation Reference Mark
- Current Effective Zone AE
- Proposed Zone AE

CONTOUR MAPPING PROVIDED BY: FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY

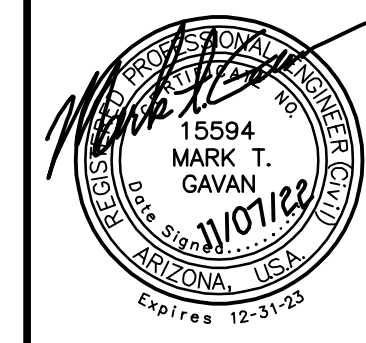
DATE FLOWN: NOVEMBER 2, 2007

No.	Revision	By	Date
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**GRANITE REEF WATERSHED
DRAINAGE AND FLOOD CONTROL IMPROVEMENTS
GRANITE REEF WASH
CONDITIONAL LETTER OF
MAP REVISION (CLOMR)
C.O.S. CONTRACT NO: 2010-140-COS**

Gavan & Barker Inc. Civil Engineering - Landscape Architecture
3030 North Central Avenue, Suite 700, Phoenix
Arizona 85012 Ph: 602-200-0031 Fx: 602-200-0032

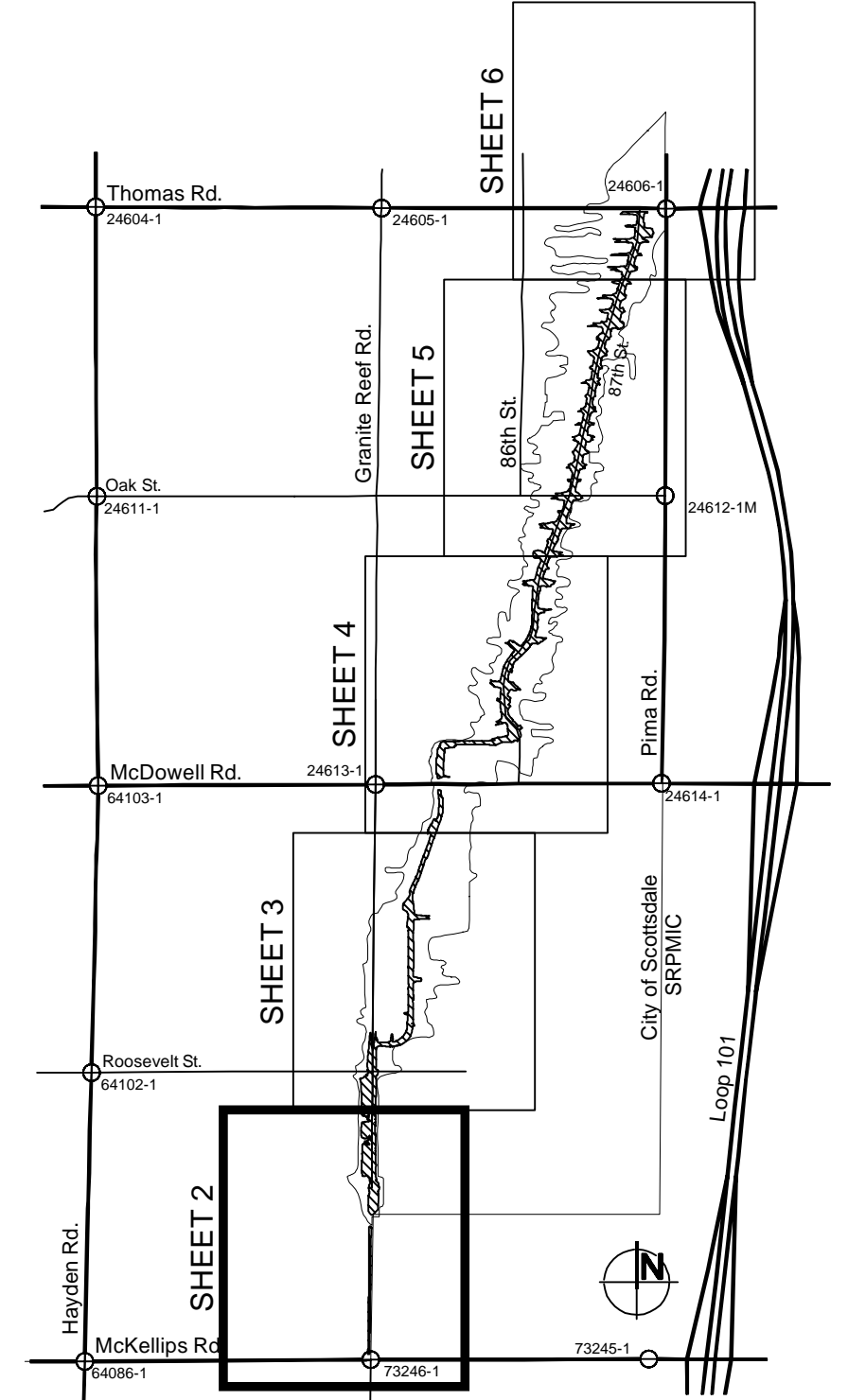
Modeled By:	OK
Drawn By:	AJA
Checked By:	MTG
Date Checked:	11/07/2022
FLOODPLAIN MAX WATER SURFACE ELEVATION	
SHEET 1 OF 6	



Floodplain Management Note:
 The revised Conditional Letter of Map Revision (CLOMR) Zone AE Floodplain is based on the two-dimensional FLO-2D model which revealed variations in Base Flood Elevations (BFEs) along Granite Reef Wash. The BFEs shown hereon provide a general depiction of the water surface elevations, but it is recommended that the user of this map obtain BFEs from the Maximum Water Surface Elevation (WSELMAX) raster contained in the GIS data. Use of the GIS data will allow for a more accurate determination of the BFE for any given location.

- Legend**
-  Proposed Base Flood Elevation
 -  Proposed Floodplain Boundary
 -  Current Effective Floodplain
 -  Maximum Water Surface Elevation At 15'x15' Grid Cells For 100-yr, 6-hr Storm Event With Walls
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SOURCE: Flood Control District of Maricopa County
 DATE FLOWN: November 2, 2007
 CONTOUR INTERVAL: 2 feet
 NOTE: All Elevations Are Based On NAVD '88
 LOCATION: T1N R4E & T2N R4E

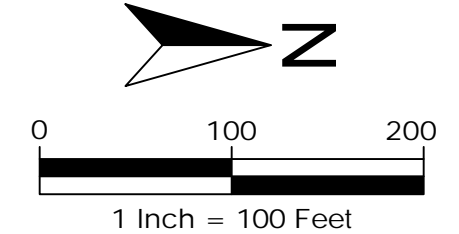
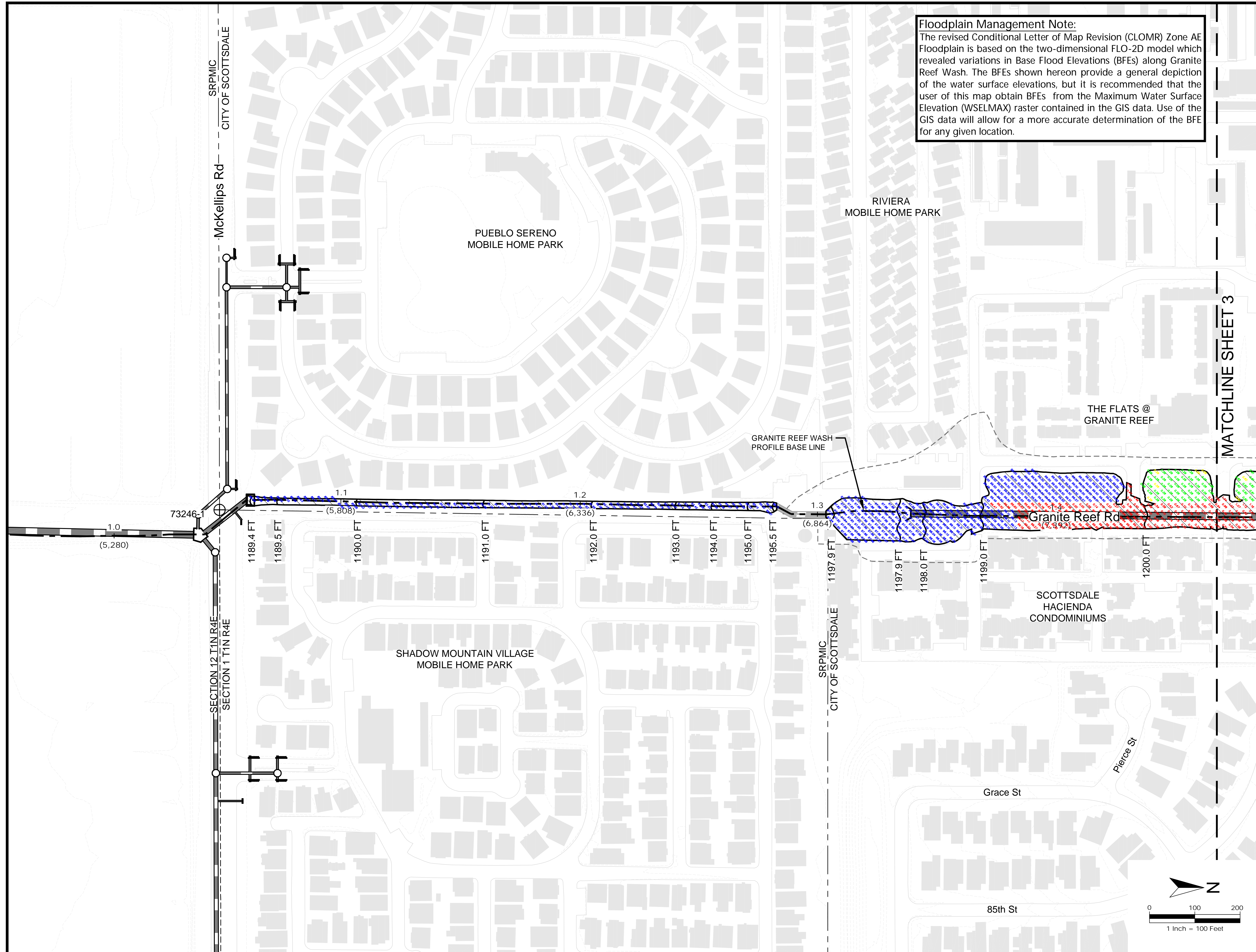
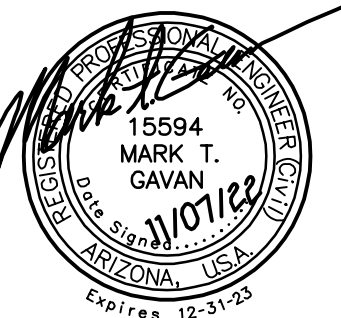


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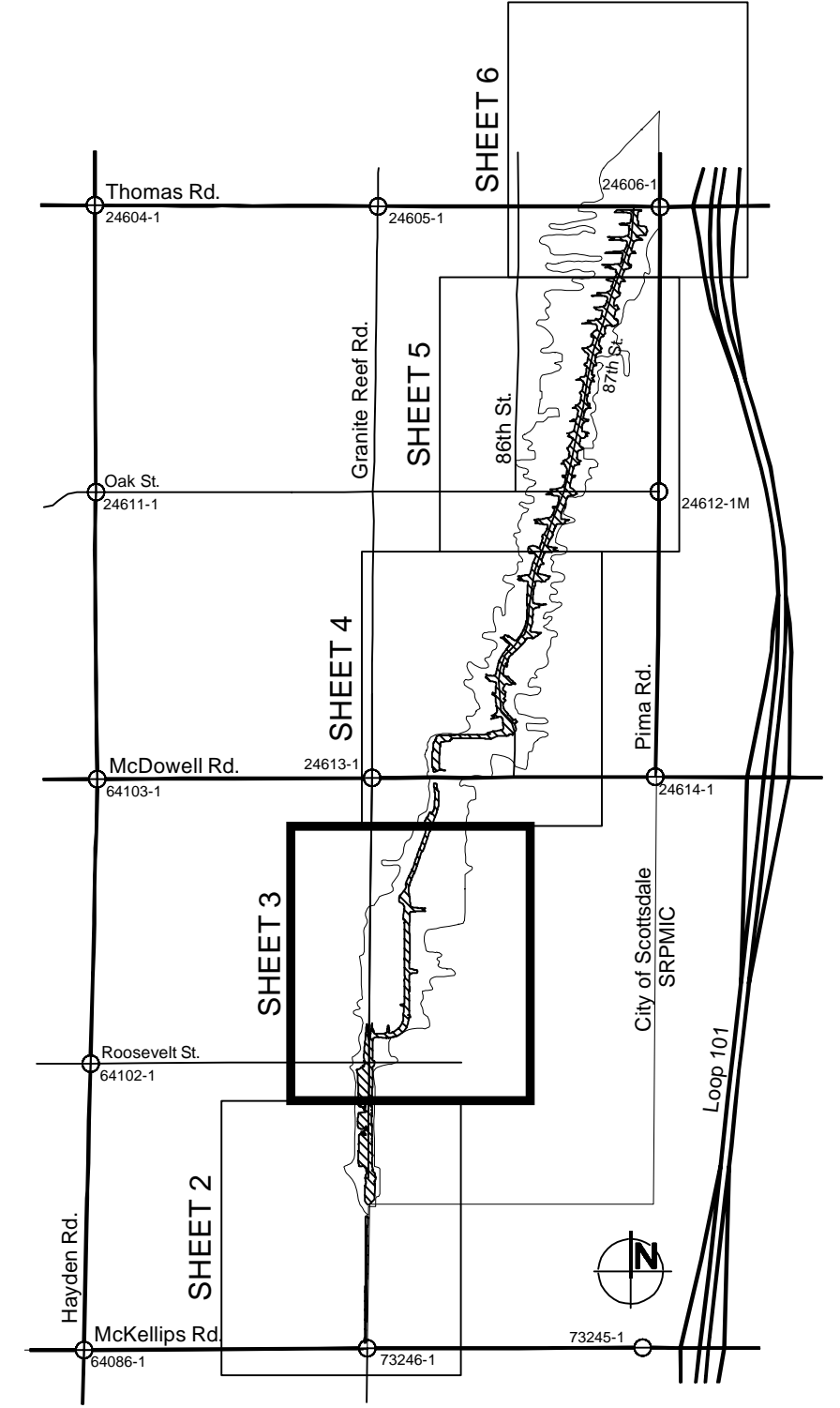
Modeled By:	OK
Drawn By:	AJA
Checked By:	MTG
Date Checked:	11/07/2022
FLOODPLAIN MAX WATER SURFACE ELEVATION	
SHEET 2 OF 6	



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 LOCATION: T1N R4E & T2N R4E

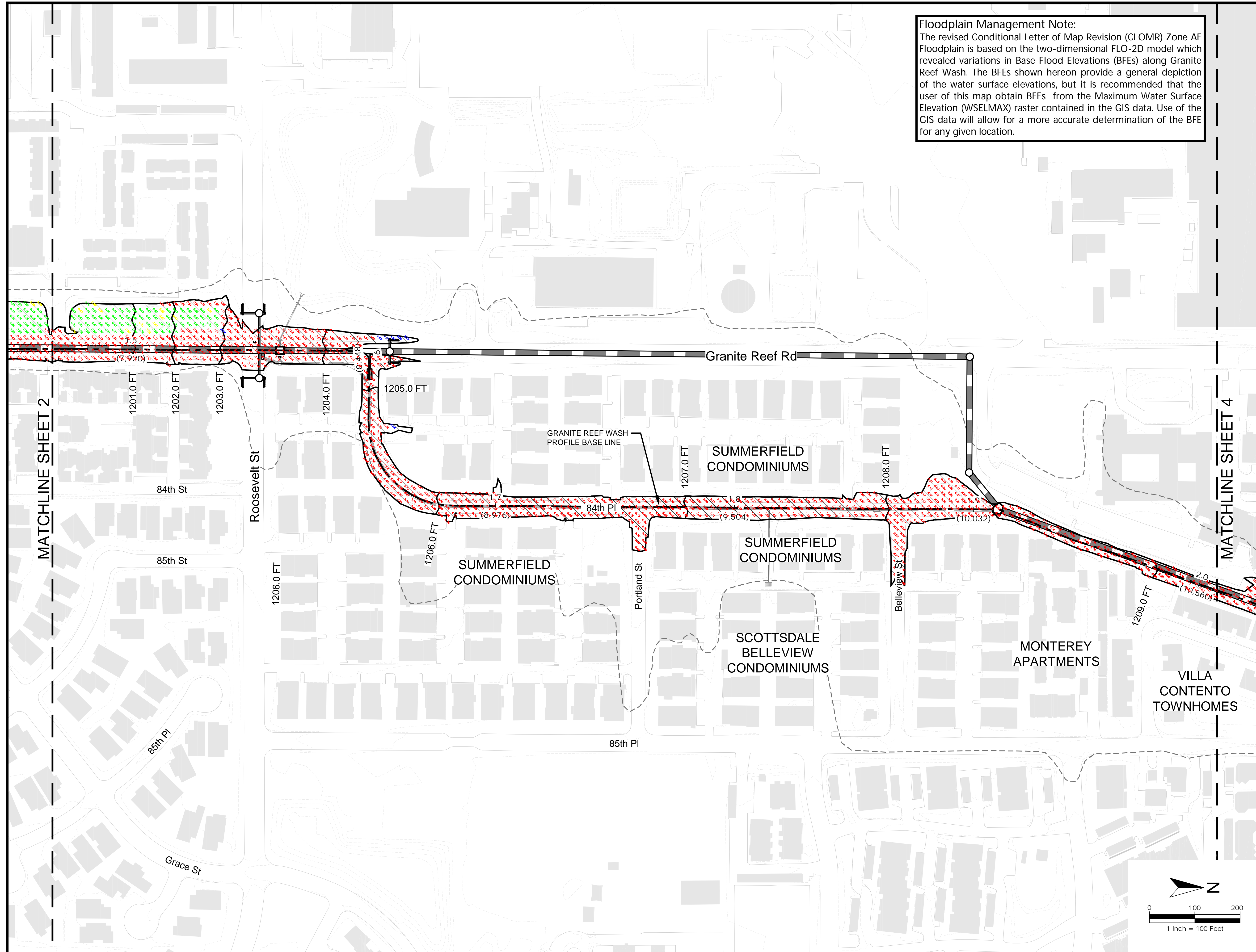
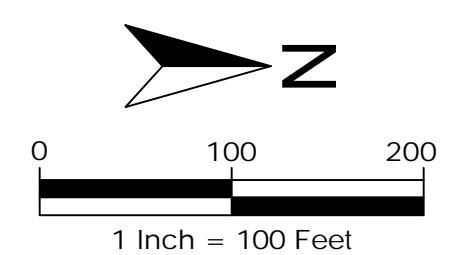
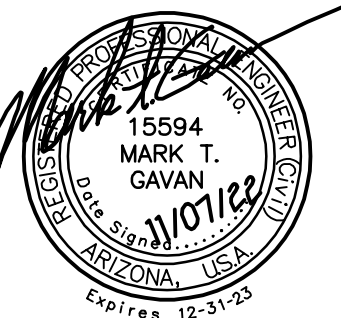


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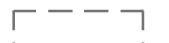




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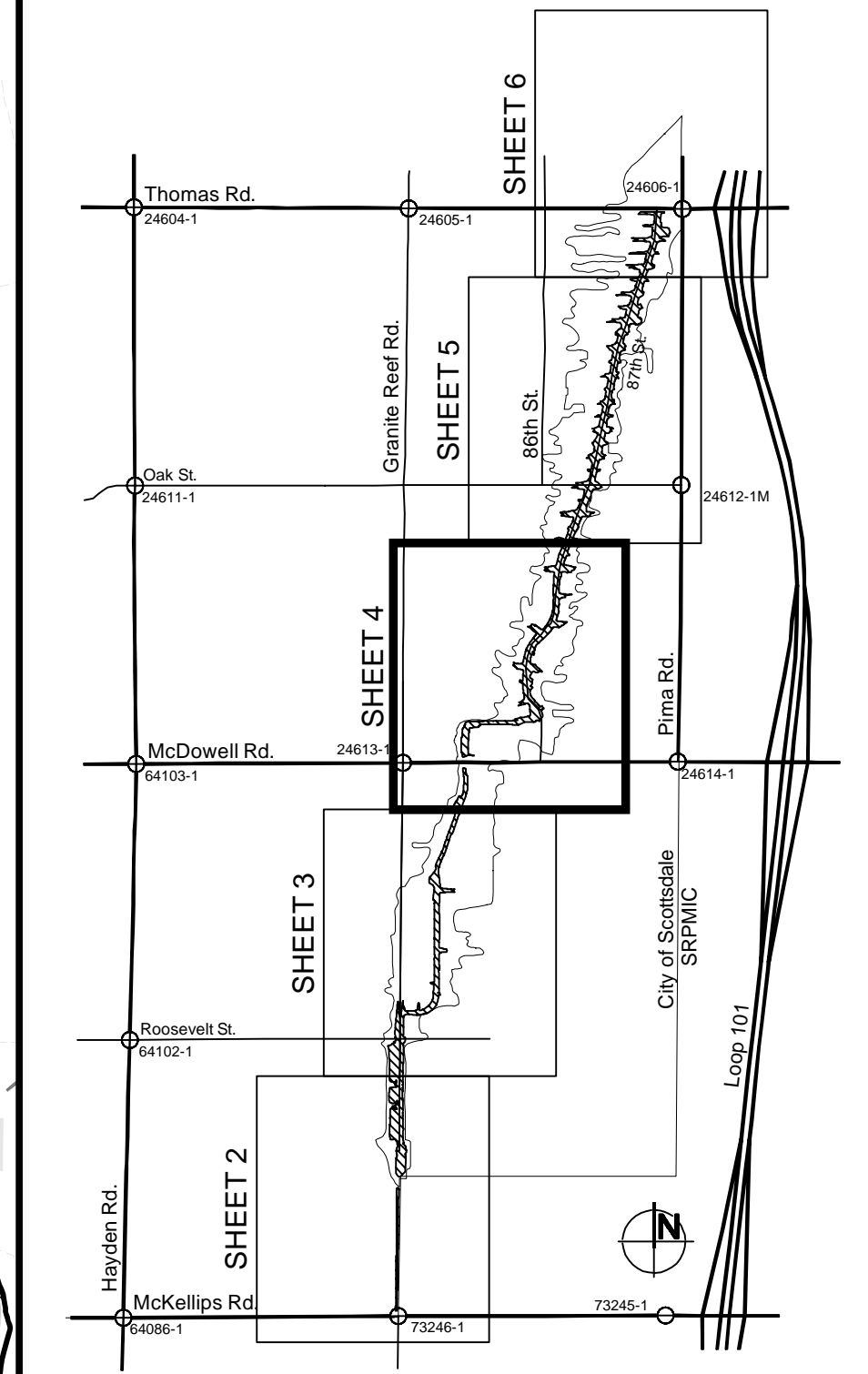
Modeled By:	OK
Drawn By:	AJA
Checked By:	MTG
Date Checked:	11/07/2022
FLOODPLAIN MAX WATER SURFACE ELEVATION	
SHEET 3 OF 6	



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 LOCATION: T1N R4E & T2N R4E

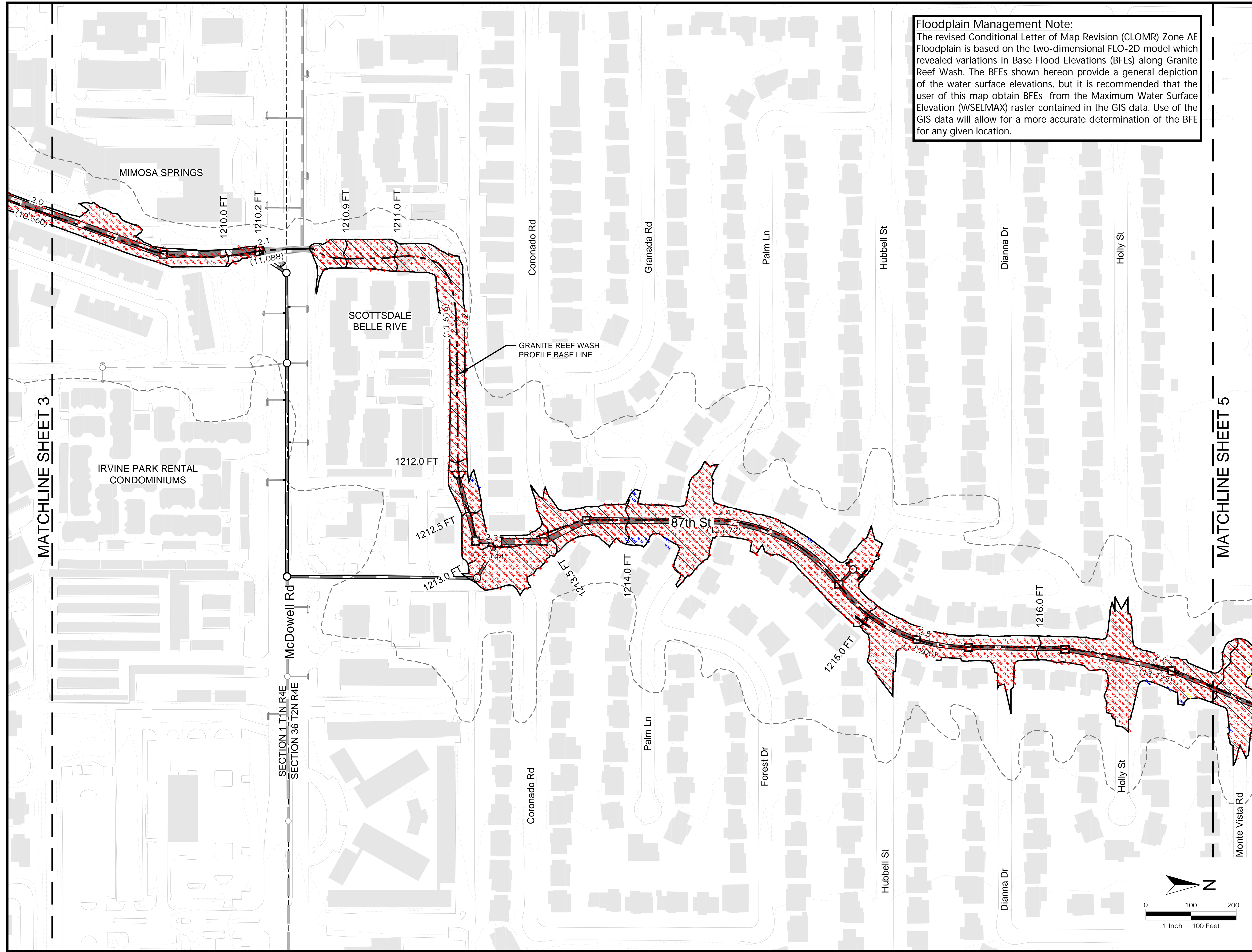
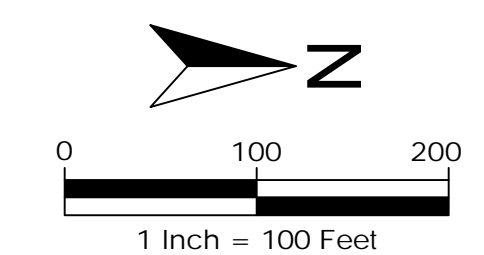
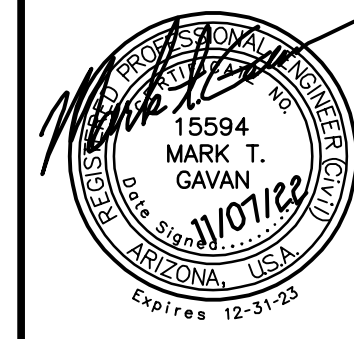


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FLOODPLAIN MAX WATER SURFACE ELEVATION	
SHEET 4 OF 6	



SECTION 1 T1N R4E
 SECTION 36 T2N R4E

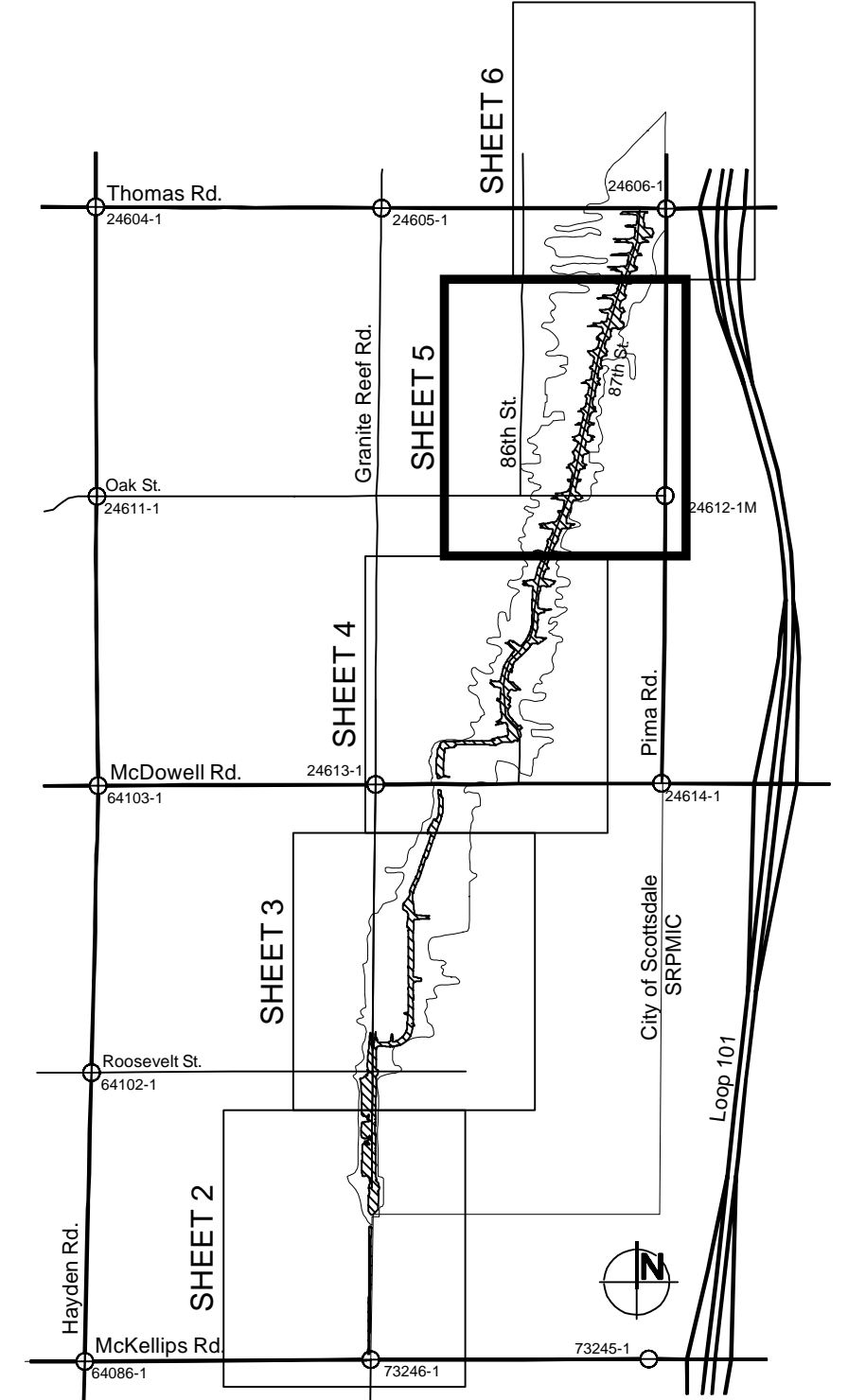
MATCHLINE SHEET 3

MATCHLINE SHEET 5

Floodplain Management Note:
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 LOCATION: T1N R4E & T2N R4E

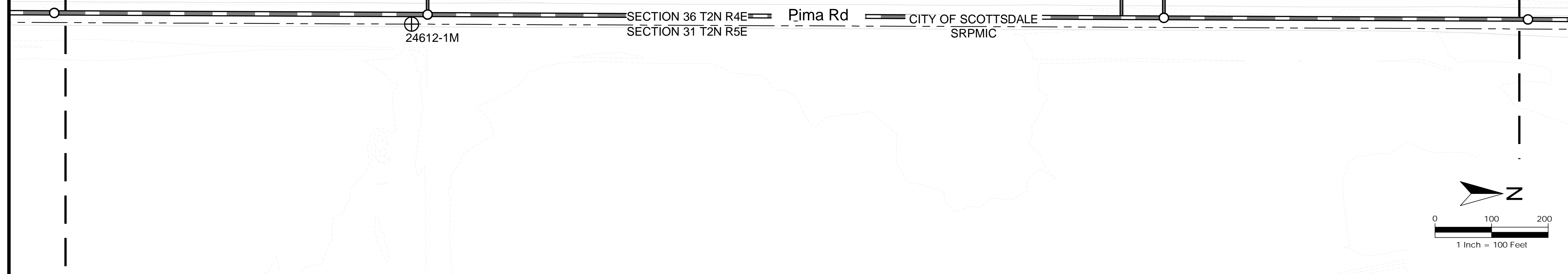
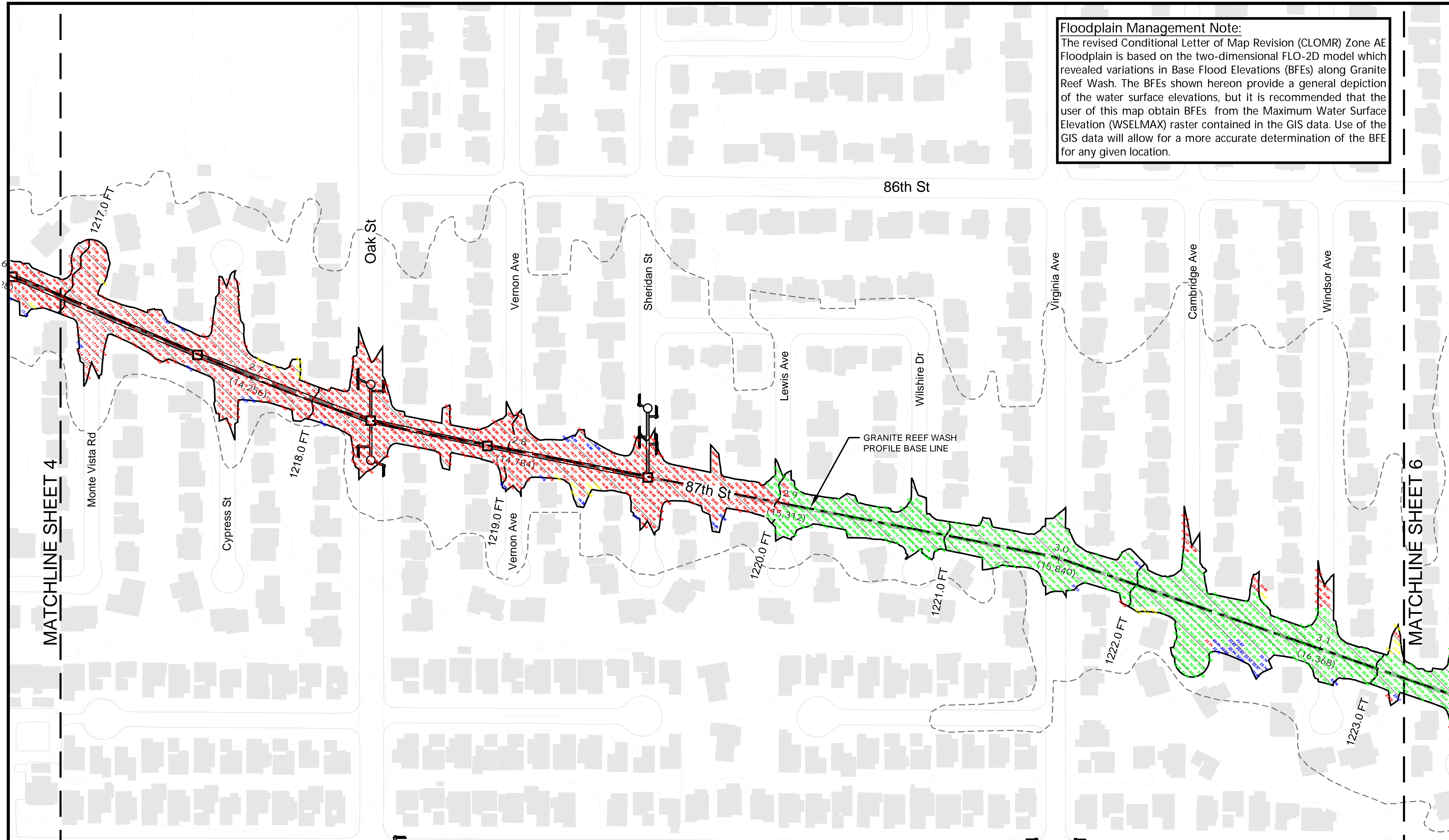
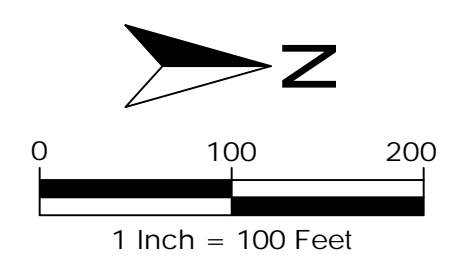
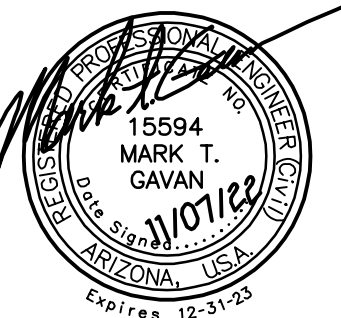


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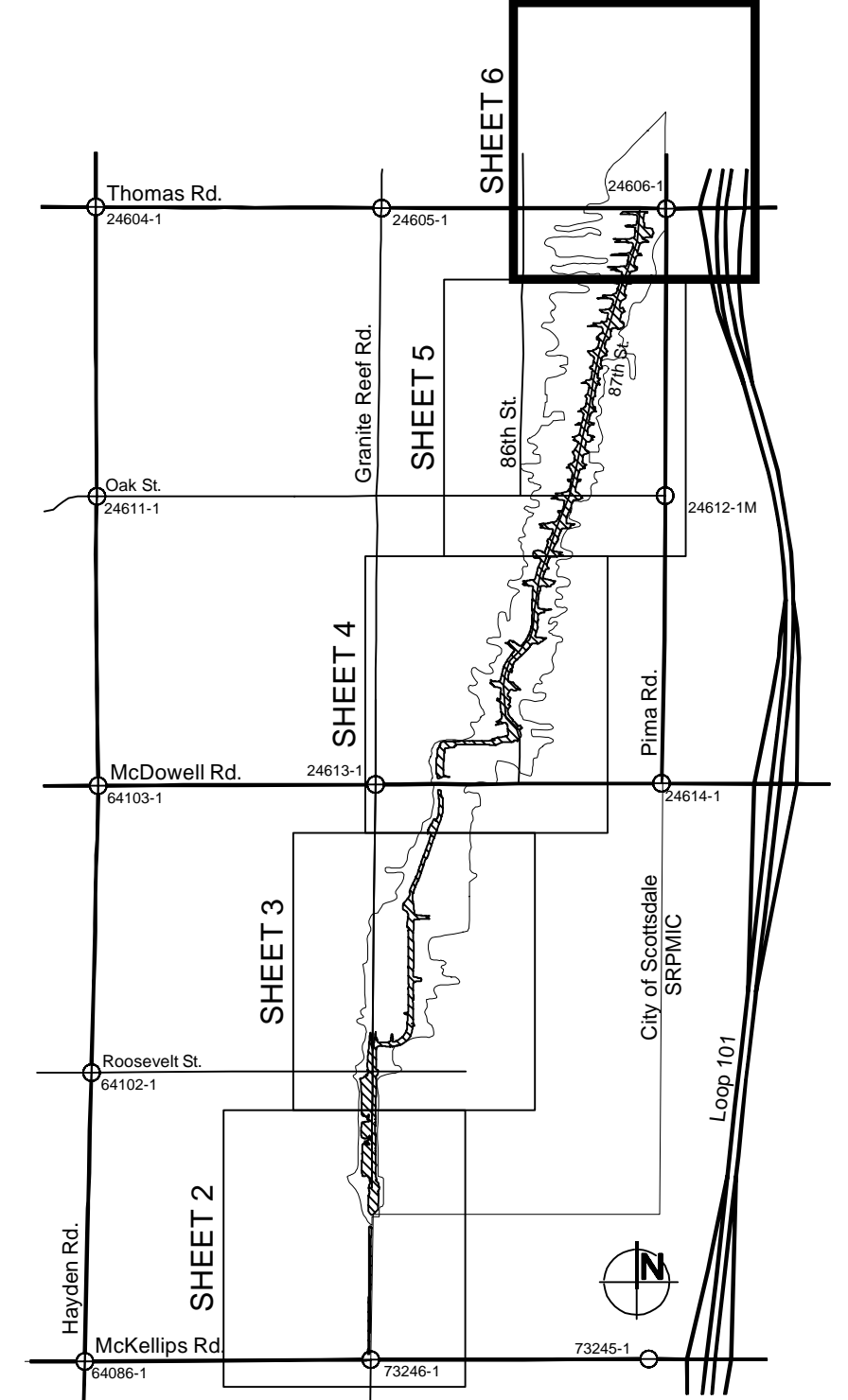
Modeled By:	OK
Drawn By:	AJA
Checked By:	MTG
Date Checked:	11/07/2022
FLOODPLAIN MAX WATER SURFACE ELEVATION	
SHEET 5 OF 6	



Floodplain Management Note:
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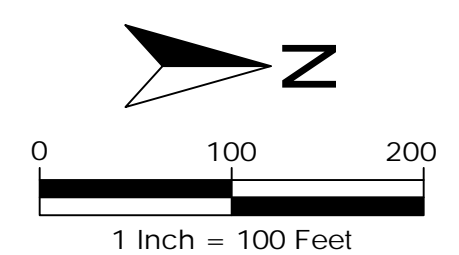
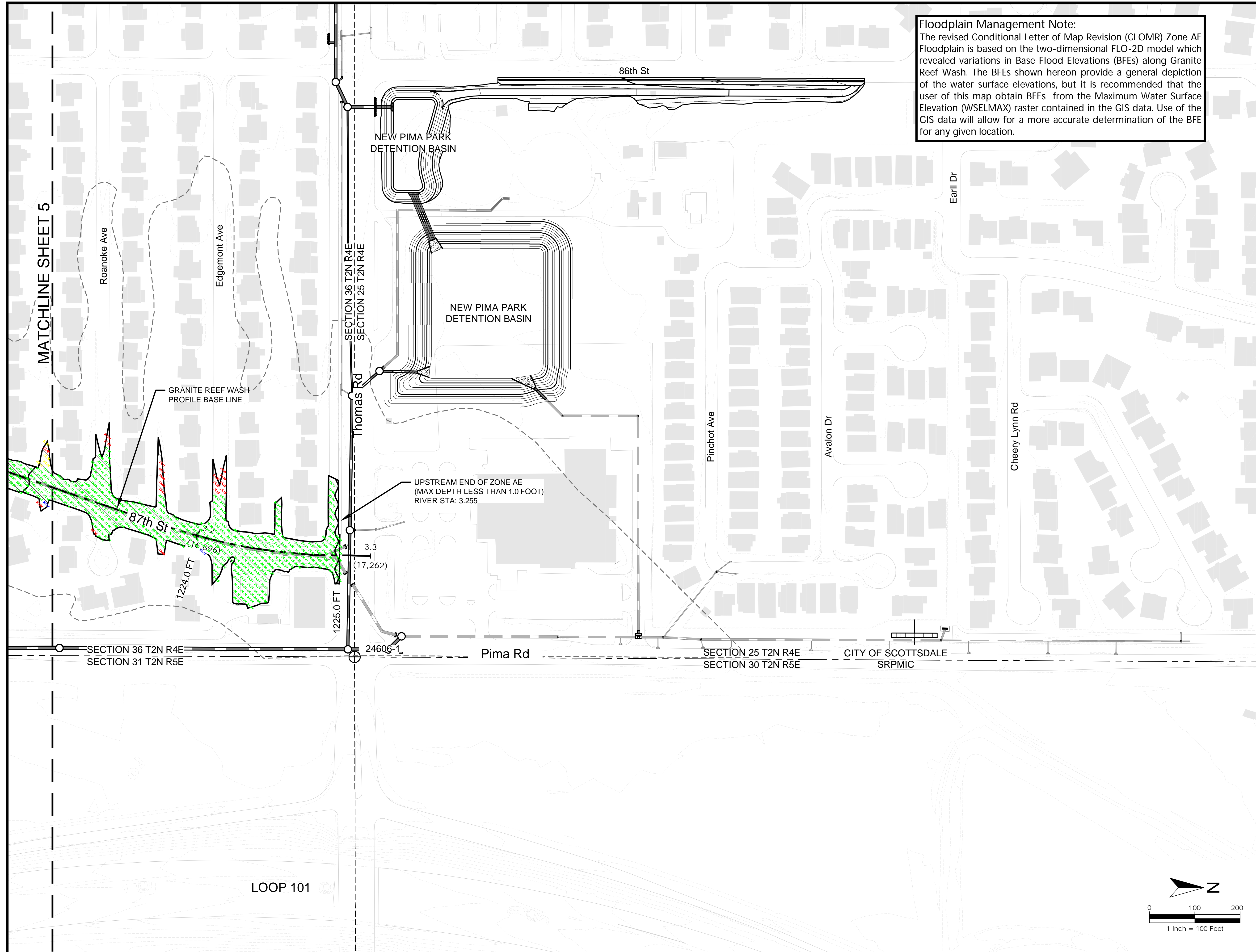
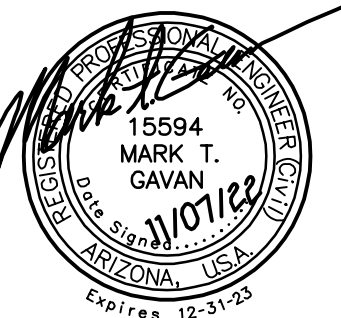


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Date Checked:	11/07/2022
FLOODPLAIN MAX WATER SURFACE ELEVATION	
SHEET 6 OF 6	



MATCHLINE SHEET 5

LOOP 101

Exhibit 2: Work Study Maps



CITY OF SCOTTSDALE

GRANITE REEF WATERSHED

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GRANITE REEF WASH CONDITIONAL LETTER OF MAP REVISION (CLOMR)

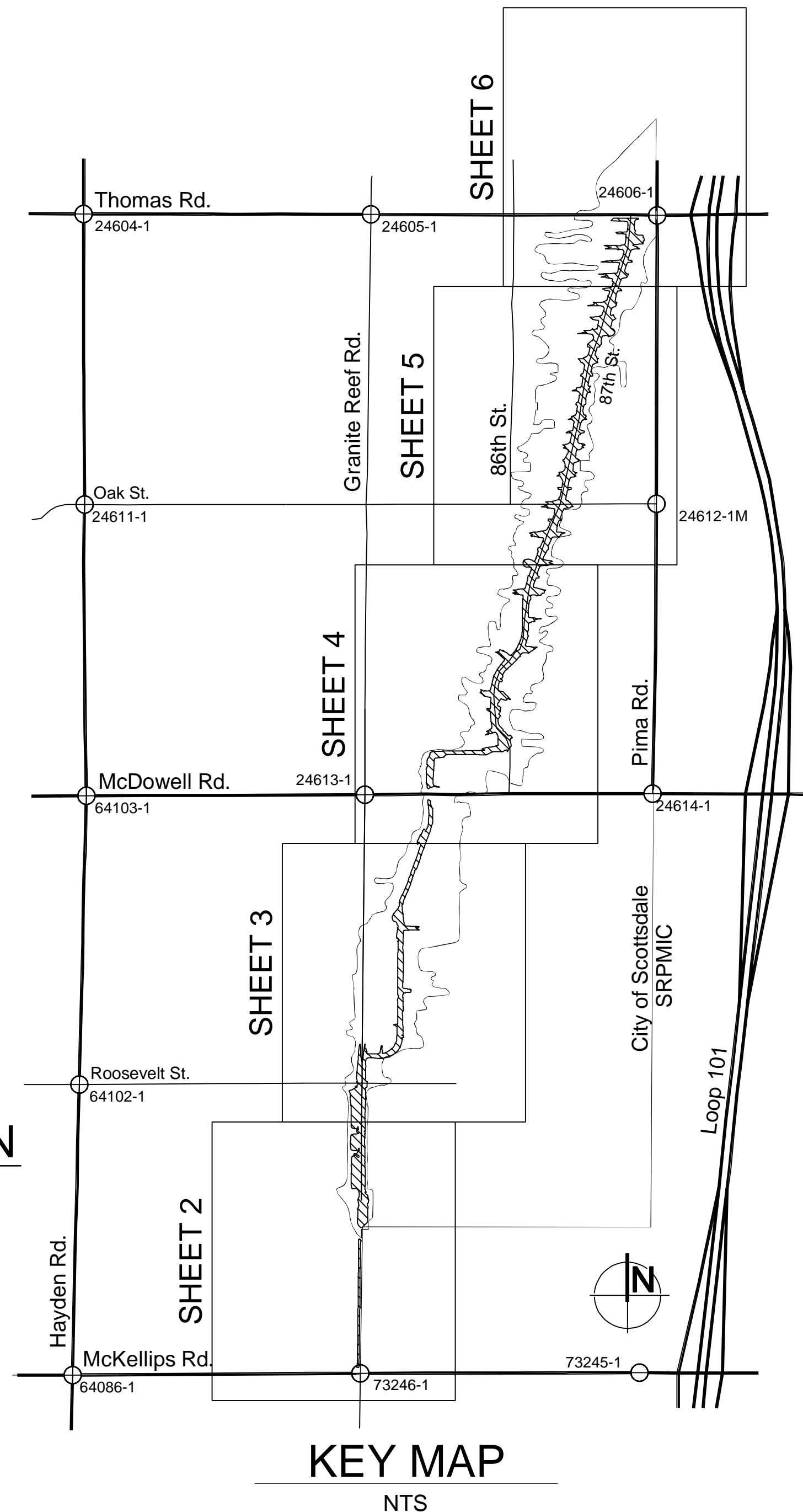
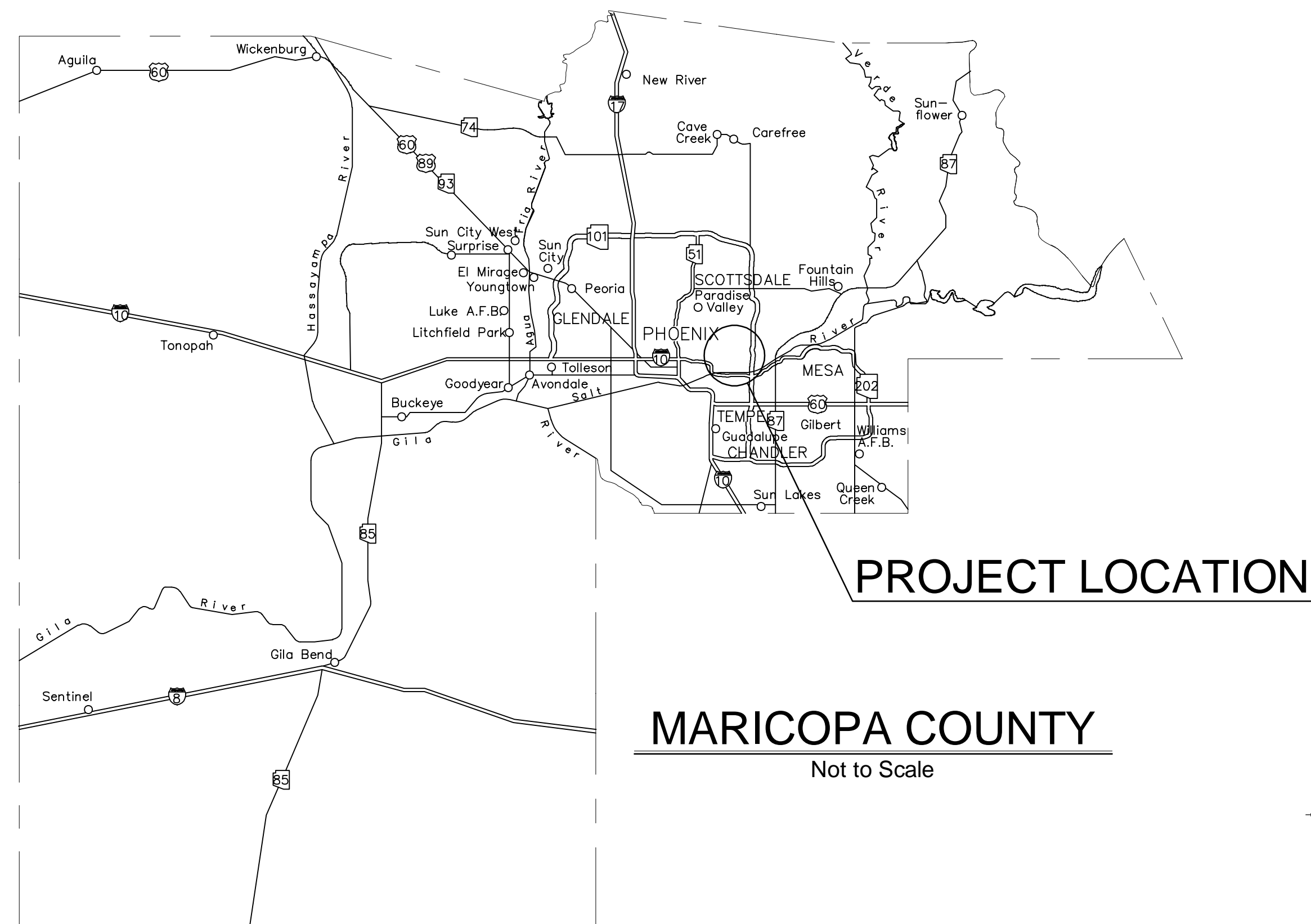
COS CONTRACT NO. 2010-140-COS

NOVEMBER 2022

Elevation Reference Marks

Label	Location	Northing*	Eastings*	Elevation**	Latitude***	Longitude***	Monument Description
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73246-1	McKellips Road	891,731.330	704,894.323	1188.428	33°27'04.68193" N	111°54'02.23171" W	FD 2 3/4" MCDOT BC IN HH 0.4' DN STAMPED "T1N R4E D.O.T. MARICOPA COUNTY 1/4 S1 S12 LS" NOTE -4FT S OF CL MCKELLIPS RD
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24606-1	Thomas Road & Pima Road	902,307.155	707,586.798	1225.995	33°28'49.31568" N	111°53'30.42221" W	FD 3" PHOENIX BC IN HH 1' DN NO STAMPING

* Northing and Eastings are based on State Plane Coordinate Arizona Central
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IMPACTED COMMUNITIES

CITY OF SCOTTSDALE

LEGEND

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- Current Effective Zone AE
- Proposed Zone AE

CONTOUR MAPPING PROVIDED BY: FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY

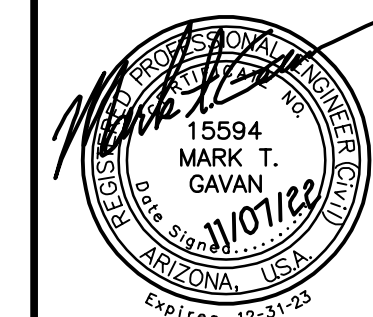
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WORK STUDY MAPS	
SHEET 1 OF 6	

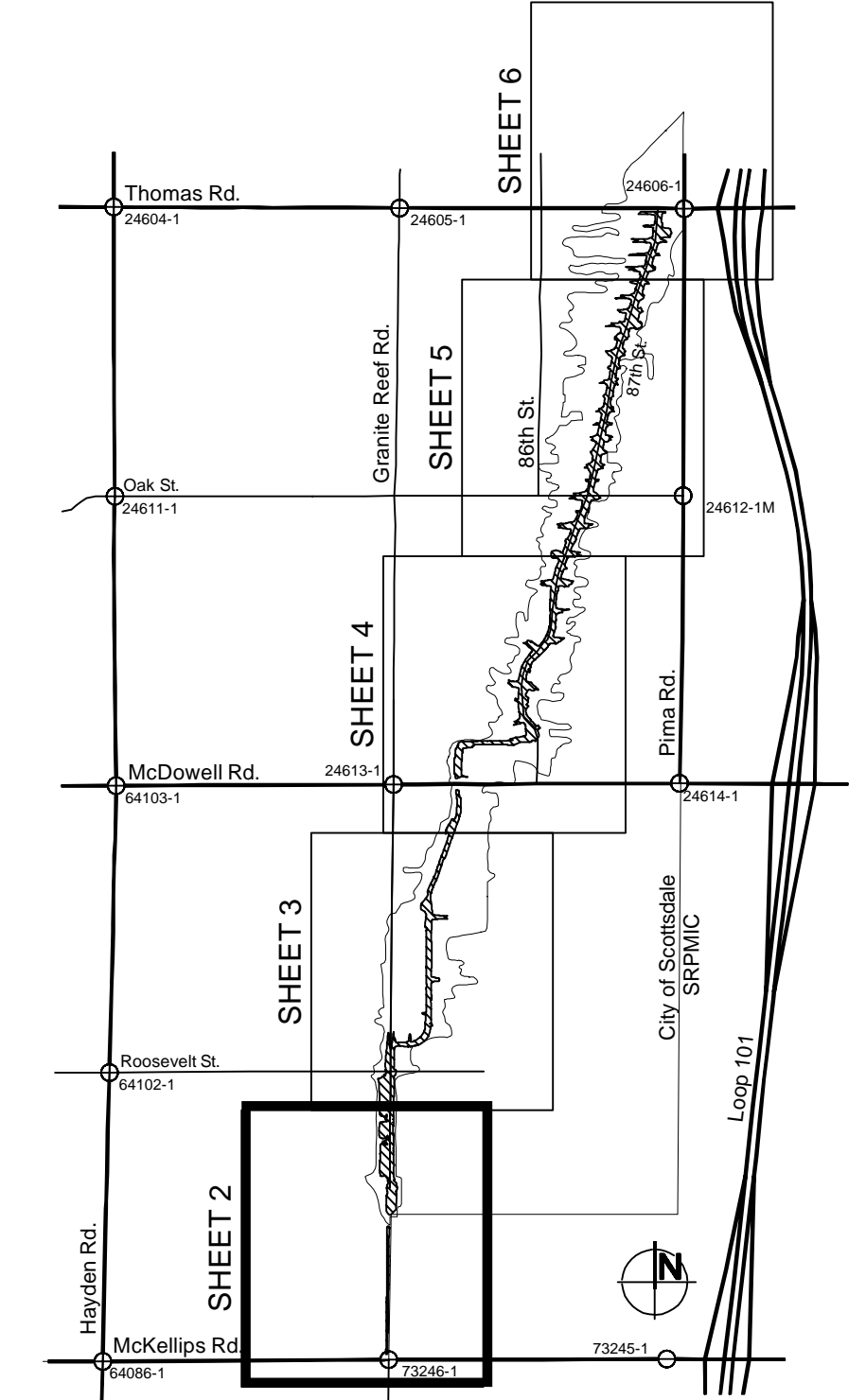


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- Legend**
- Proposed Base Flood Elevation
 - Elevation Reference Mark
 - Section Line
 - Existing Storm Drain
 - Proposed Storm Drain
 - Thalweg Distance in Miles (Feet) (Flood Profile Base Line)
 - Municipal Boundary
 - A: Thalweg Distance In Miles
B: Governing 1.0% Annual Chance Flood Discharge*
C: Max Water Surface Elevation
 - Proposed Zone AE
 - Current Effective Zone AE

*The Governing 1.0% Annual Chance Flood Discharge Indicated on the Maps Only Includes the Surface Flow

SOURCE: Flood Control District of Maricopa County
 DATE FLOWN: November 2, 2007
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 NOTE: All Elevations Are Based On NAVD '88
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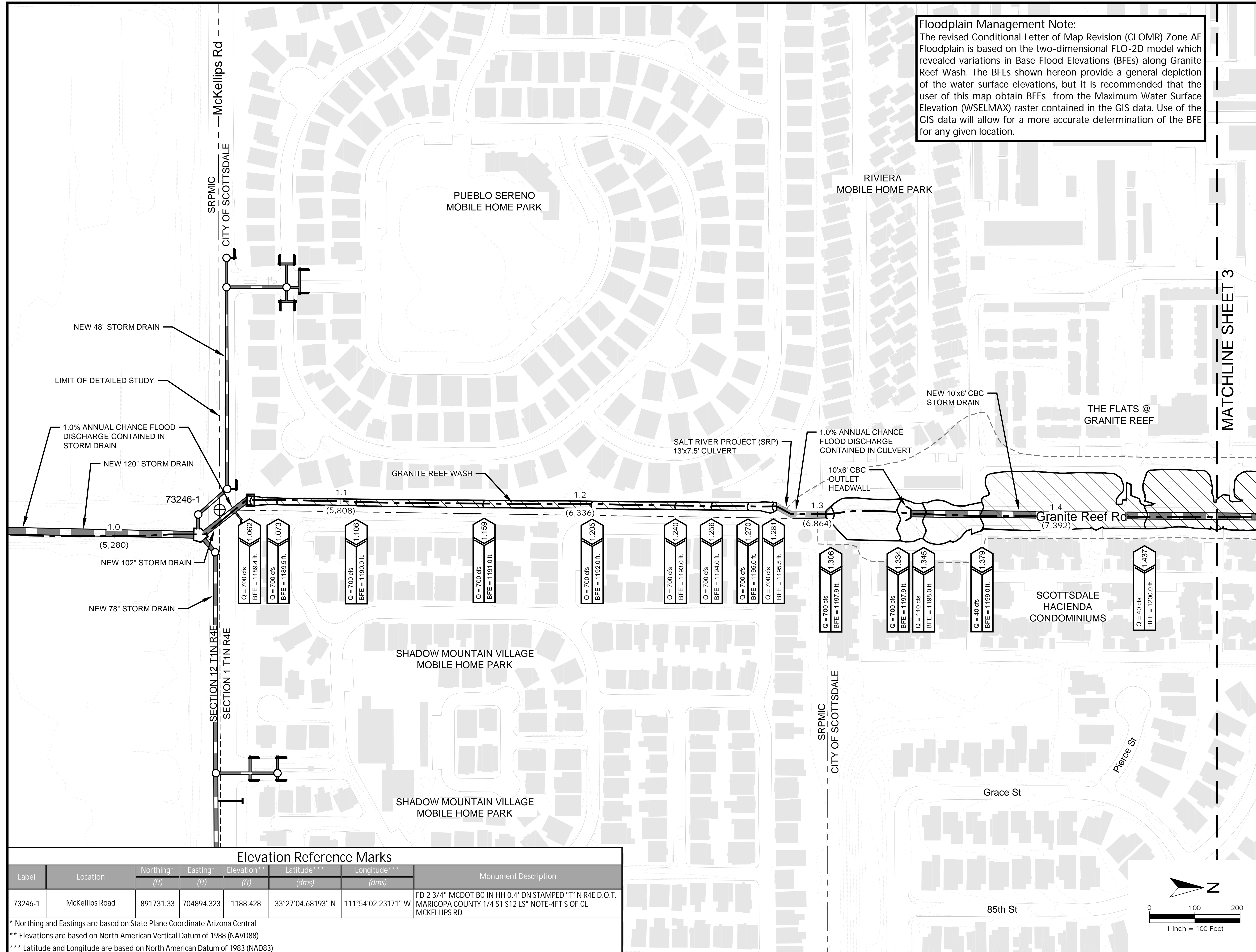
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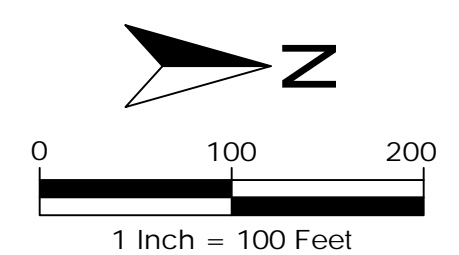
WORK STUDY MAPS
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 ** Elevations are based on North American Vertical Datum of 1988 (NAVD88)
 *** Latitude and Longitude are based on North American Datum of 1983 (NAD83)

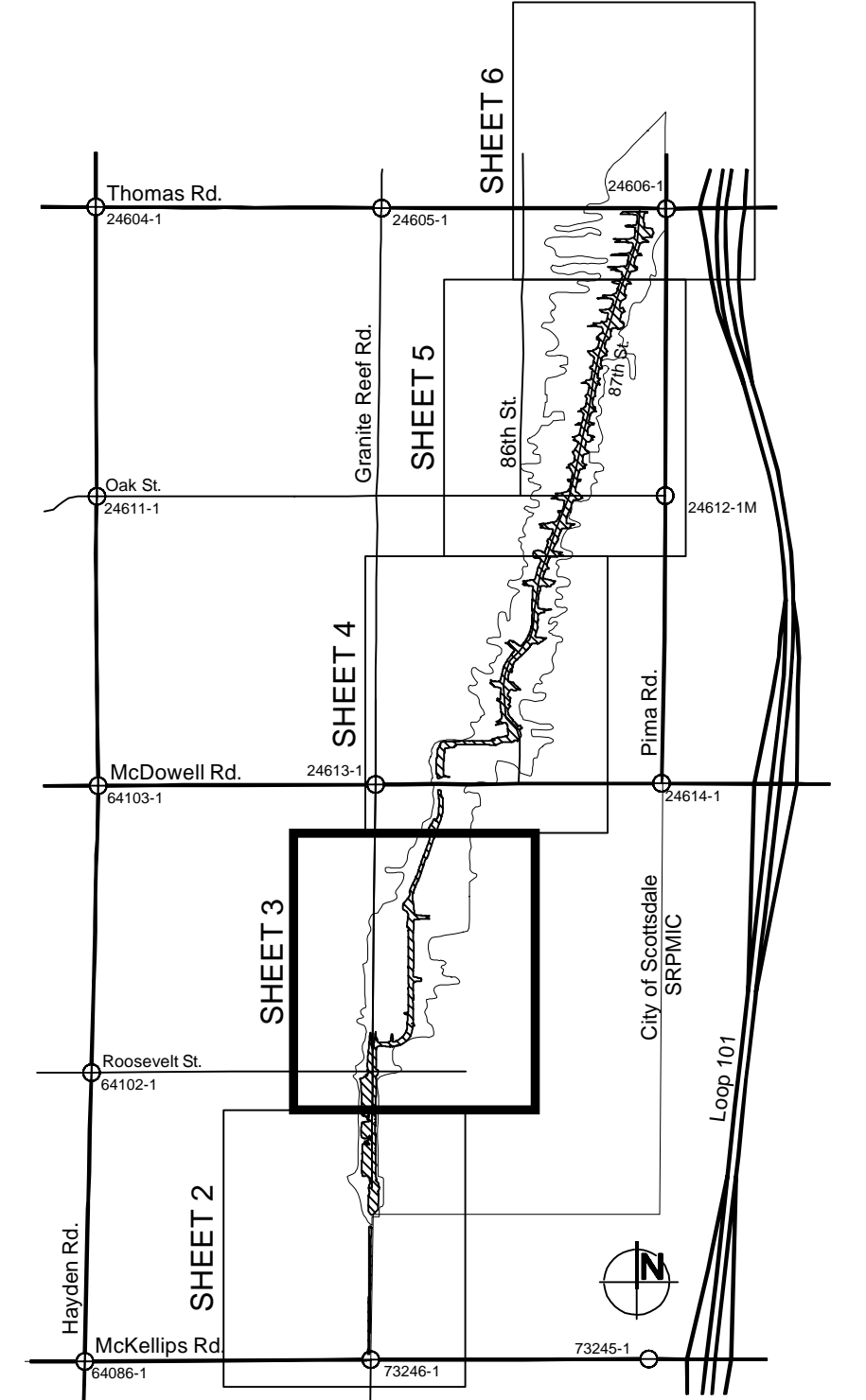


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 - Proposed Zone AE
 - Current Effective Zone AE

*The Governing 1.0% Annual Chance Flood Discharge Indicated on the Maps Only Includes the Surface Flow

SOURCE: Flood Control District of Maricopa County
 DATE FLOWN: November 2, 2007
 CONTOUR INTERVAL: 2 feet
 NOTE: All Elevations Are Based On NAVD '88
 LOCATION: T1N R4E & T2N R4E



KEY MAP

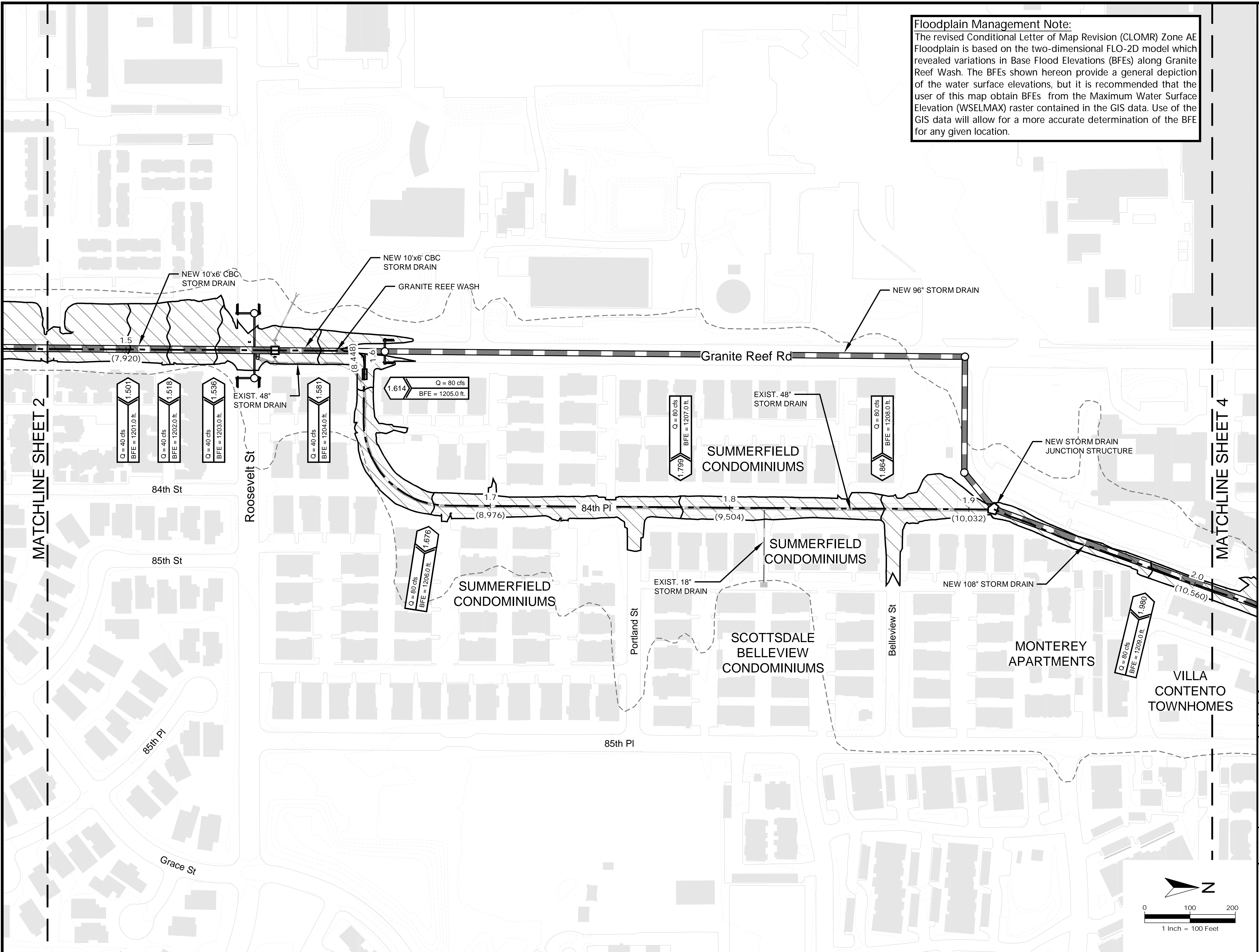
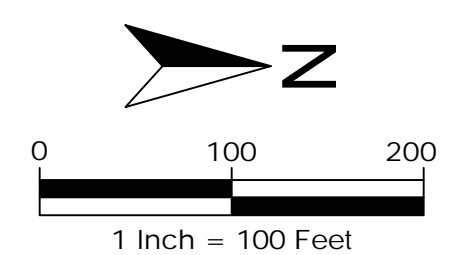
No.	Revision	By	Date
1			
2			
3			

**GRANITE REEF WATERSHED
 DRAINAGE AND FLOOD CONTROL IMPROVEMENTS
 GRANITE REEF WASH
 CONDITIONAL LETTER OF
 MAP REVISION (CLOMR)
 C.O.S. CONTRACT NO: 2010-140-COS**

Gavan & Barker Inc. Civil Engineering - Landscape Architecture
 3030 North Central Avenue, Suite 700, Phoenix, Arizona 85012 Ph: 602-200-0031 Fax: 602-200-0032

Modeled By: OK
 Drawn By: AJA
 Checked By: MTG
 Date Checked: 11/07/2022

WORK STUDY MAPS
 SHEET 3 OF 6



MATCHLINE SHEET 2

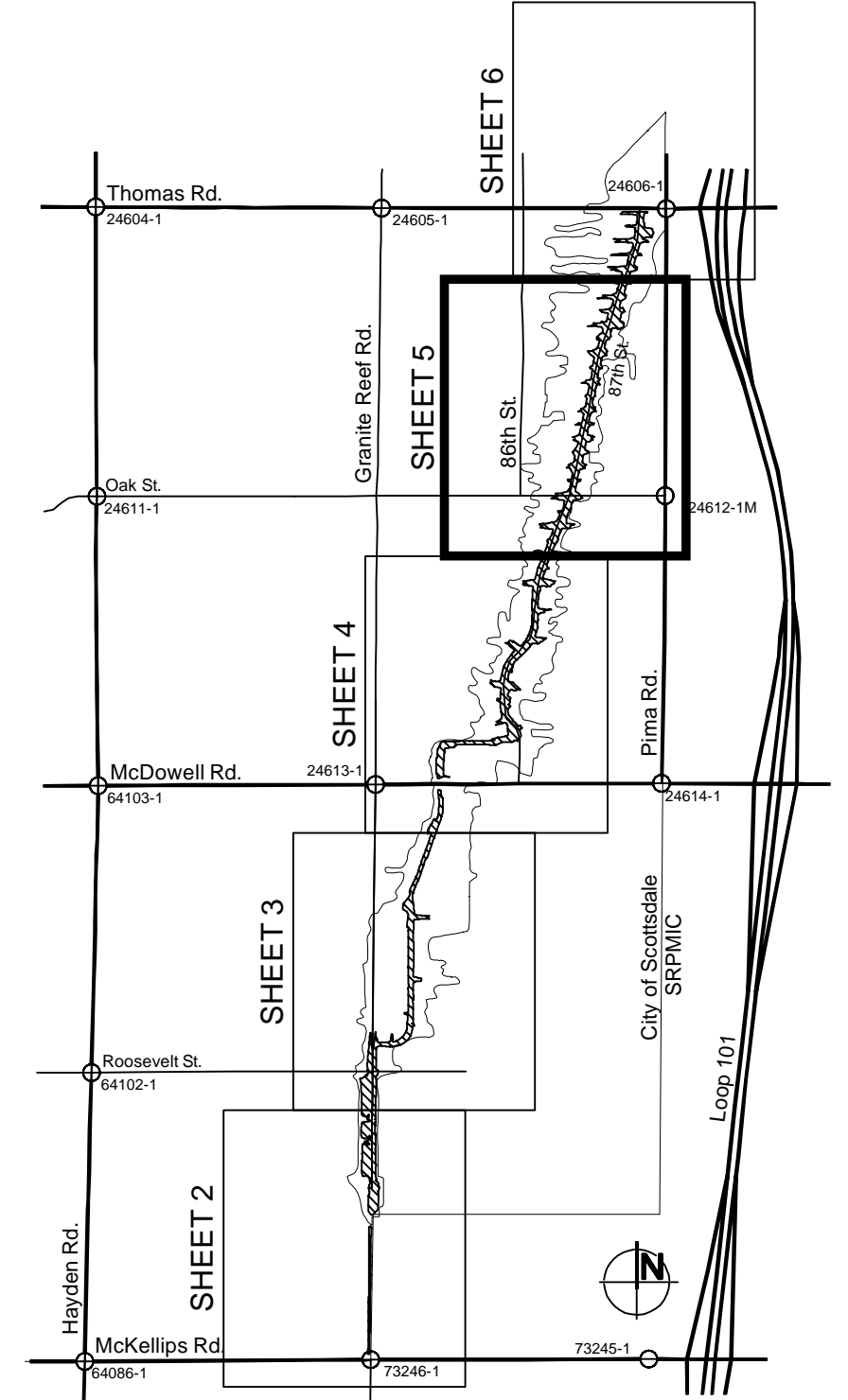
MATCHLINE SHEET 4

Floodplain Management Note:
 The revised Conditional Letter of Map Revision (CLOMR) Zone AE Floodplain is based on the two-dimensional FLO-2D model which revealed variations in Base Flood Elevations (BFEs) along Granite Reef Wash. The BFEs shown hereon provide a general depiction of the water surface elevations, but it is recommended that the user of this map obtain BFEs from the Maximum Water Surface Elevation (WSELMAX) raster contained in the GIS data. Use of the GIS data will allow for a more accurate determination of the BFE for any given location.

- Legend**
- Proposed Base Flood Elevation
 - Elevation Reference Mark
 - Section Line
 - Existing Storm Drain
 - Proposed Storm Drain
 - Thalweg Distance in Miles (Feet) (Flood Profile Base Line)
 - Municipal Boundary
 - A: Thalweg Distance In Miles
B: Governing 1.0% Annual Chance Flood Discharge*
C: Max Water Surface Elevation
 - Proposed Zone AE
 - Current Effective Zone AE

*The Governing 1.0% Annual Chance Flood Discharge Indicated on the Maps Only Includes the Surface Flow

SOURCE: Flood Control District of Maricopa County
 DATE FLOWN: November 2, 2007
 CONTOUR INTERVAL: 2 feet
 NOTE: All Elevations Are Based On NAVD '88
 LOCATION: T1N R4E & T2N R4E

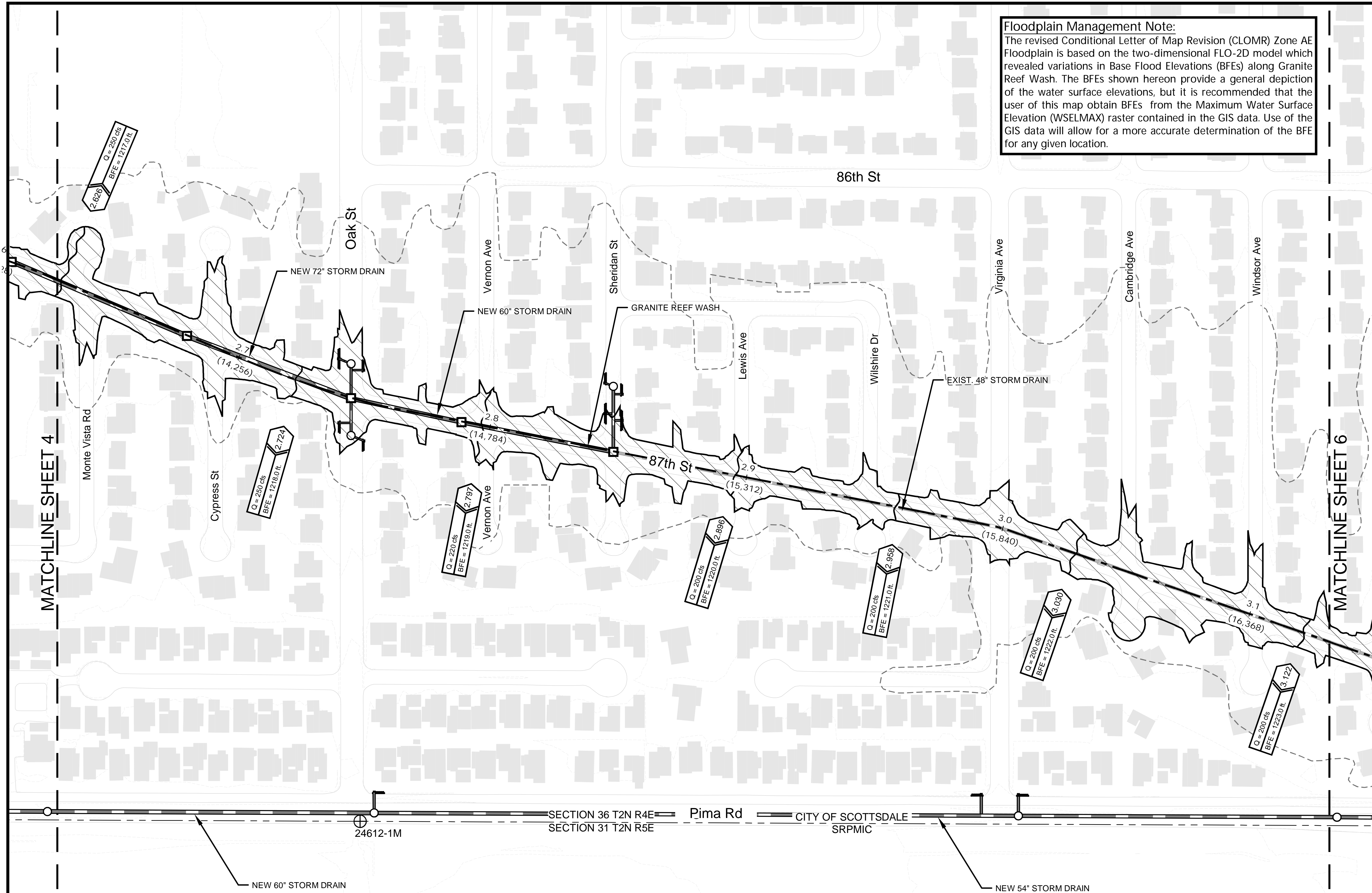


No.	Revision	By	Date
1			
2			
3			

**GRANITE REEF WATERSHED
 DRAINAGE AND FLOOD CONTROL IMPROVEMENTS
 GRANITE REEF WASH
 CONDITIONAL LETTER OF
 MAP REVISION (CLOMR)
 C.O.S. CONTRACT NO: 2010-140-COS**

Gavan & Barker Inc. Civil Engineering - Landscape Architecture
 3030 North Central Avenue, Suite 700, Phoenix, Arizona 85012 Ph: 602-200-0031 Fax: 602-200-0032

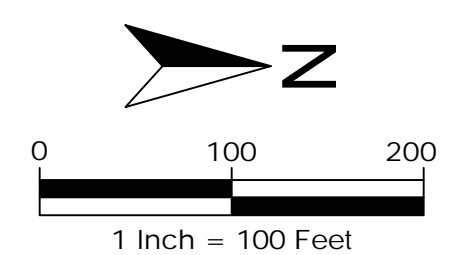
Modeled By:	OK
Drawn By:	AJA
Checked By:	MTG
Date Checked:	11/07/2022
WORK STUDY MAPS	
SHEET 5 OF 6	

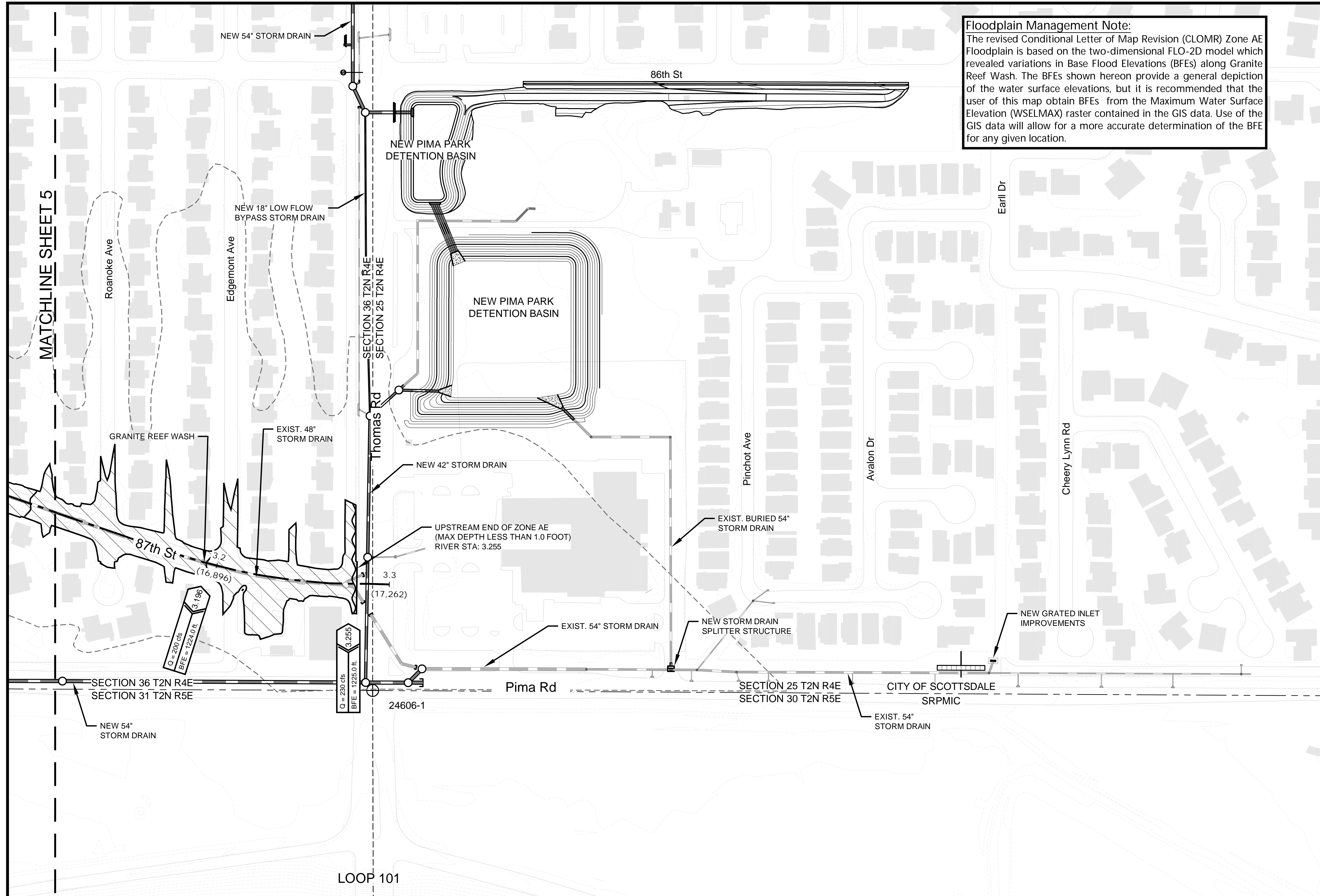


Elevation Reference Marks

Label	Location	Northing*	Easting*	Elevation**	Latitude***	Longitude***	Monument Description
		(ft)	(ft)	(ft)	(dms)	(dms)	
24612-1M	Oak Street & Pima Road	899666.047	707576.208	1227.175	33°28'23.18418" N	111°53'30.55471" W	FD 1" IP 0.4" DN W/O ID, SET ABOVE IN CONC A 2" MARICOPA COUNTY AL CAP FL STAMPED "T2N 1/4 R4E S36 S31 2004 RLS 21782

* Northing and Eastings are based on State Plane Coordinate Arizona Central
 ** Elevations are based on North American Vertical Datum of 1988 (NAVD88)
 *** Latitude and Longitude are based on North American Datum of 1983 (NAD83)



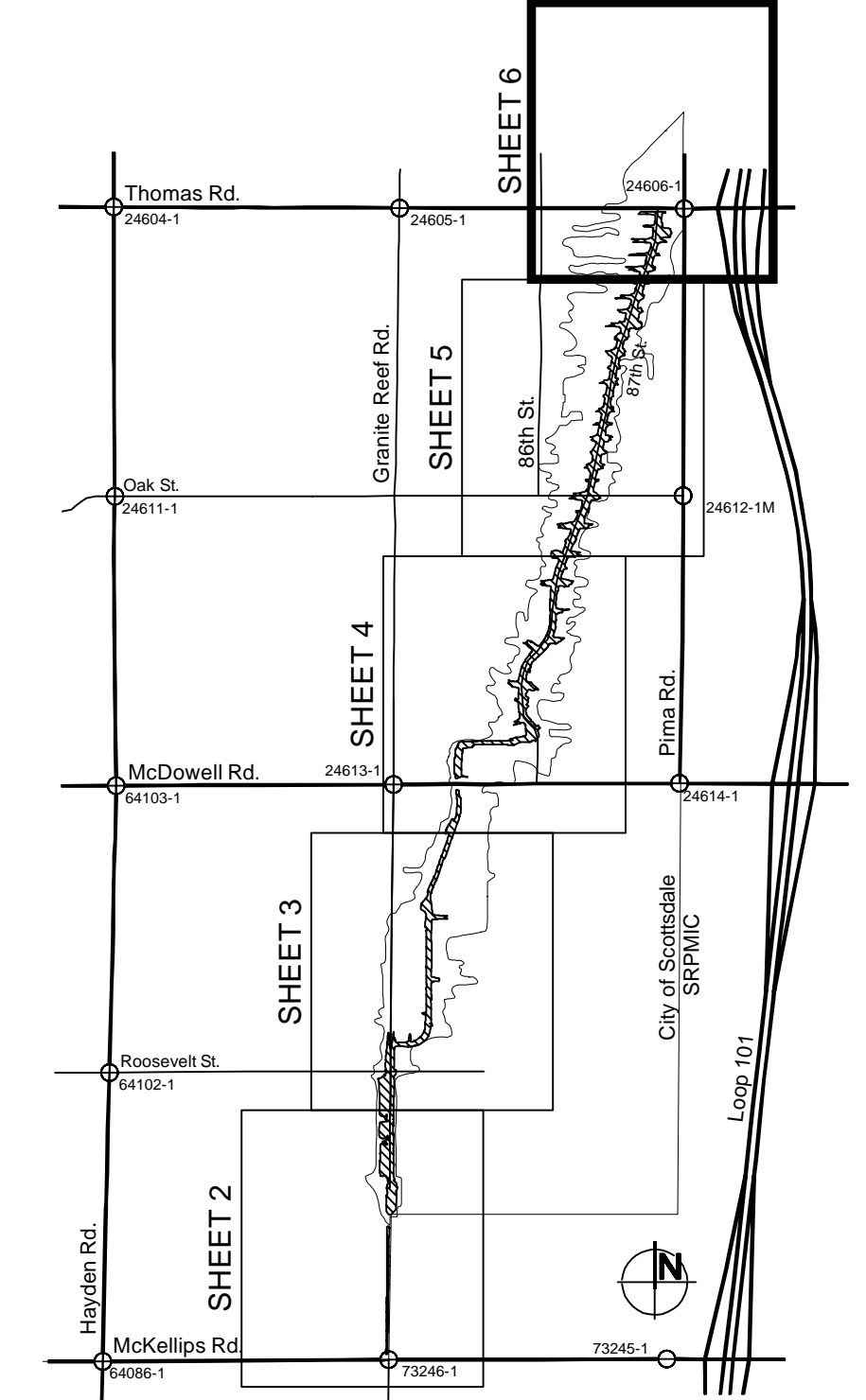


Floodplain Management Note:
 The revised Conditional Letter of Map Revision (CLOMR) Zone AE Floodplain is based on the two-dimensional FLO-2D model which revealed variations in Base Flood Elevations (BFEs) along Granite Reef Wash. The BFEs shown hereon provide a general depiction of the water surface elevations, but it is recommended that the user of this map obtain BFEs from the Maximum Water Surface Elevation (WSELMAX) raster contained in the GIS data. Use of the GIS data will allow for a more accurate determination of the BFE for any given location.

- Legend**
- Proposed Base Flood Elevation
 - Elevation Reference Mark
 - Section Line
 - Existing Storm Drain
 - Proposed Storm Drain
 - Thalweg Distance in Miles (Feet) (Flood Profile Base Line)
 - Municipal Boundary
 - A: Thalweg Distance In Miles
B: Governing 1.0% Annual Chance Flood Discharge*
C: Max Water Surface Elevation
 - Proposed Zone AE
 - Current Effective Zone AE

*The Governing 1.0% Annual Chance Flood Discharge Indicated on the Maps Only Includes the Surface Flow

SOURCE: Flood Control District of Maricopa County
 DATE FLOWN: November 2, 2007
 CONTOUR INTERVAL: 2 feet
 NOTE: All Elevations Are Based On NAVD '88
 LOCATION: T1N R4E & T2N R4E



No.	Revision	By	Date
1			
2			
3			

**GRANITE REEF WATERSHED
 DRAINAGE AND FLOOD CONTROL IMPROVEMENTS
 GRANITE REEF WASH
 CONDITIONAL LETTER OF
 MAP REVISION (CLOMR)
 C.O.S. CONTRACT NO: 2010-140-COS**

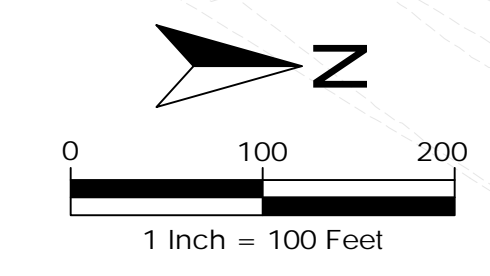
Gavan & Barker Inc. Civil Engineering - Landscape Architecture
 3030 North Central Avenue, Suite 700, Phoenix, Arizona 85012 Ph: 602-200-0031 Fx: 602-200-0032

Modeled By: OK
 Drawn By: AJA
 Checked By: MTG
 Date Checked: 11/07/2022

WORK STUDY MAPS
 SHEET 6 OF 6

Elevation Reference Marks							
Label	Location	Northing*	Eastng*	Elevation**	Latitude***	Longitude***	Monument Description
		(ft)	(ft)	(ft)	(dms)	(dms)	
24606-1	Thomas Road & Pima Road	902307.155	707586.798	1225.995	33°28'49.31568" N	111°53'30.42221" W	FD 3" PHOENIX BC IN HH 1' DN NO STAMPING

* Northing and Eastings are based on State Plane Coordinate Arizona Central
 ** Elevations are based on North American Vertical Datum of 1988 (NAVD88)
 *** Latitude and Longitude are based on North American Datum of 1983 (NAD83)



MATCHLINE SHEET 5

**Exhibit 3: Annotated FEMA FIRM
Map #04013C2235L**

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.6' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Arizona State Plane Central zone (FIPSZONE 0202). The horizontal datum was NAD 83 HARN. GRS1980 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988 (NAVD 88). These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. Map users wishing to obtain flood elevations referenced to the National Geodetic Vertical Datum of 1929 (NGVD 29) may use the following Maricopa County website application: <http://www.fcd.maricopa.gov/Maps/gismaps/apps/gdacs/application/index.cfm>

This web tool allows users to obtain point-specific datum conversion values by zooming in and hovering over a VERTCON checkbox on the layers menu on the left side of the screen. The VERTCON grid referenced in this web application was also used to convert existing flood elevations from NGVD 29 to NAVD 88.

To obtain current elevation, description, and/or location information for National Geodetic Survey bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>. To obtain information about Geodetic Denitification and Cadastral Survey bench marks produced by the Maricopa County Department of Transportation, please visit the Flood Control District of Maricopa County website at: <http://www.fcd.maricopa.gov/Maps/gismaps/apps/gdacs/application/index.cfm>

Base map information shown on this FIRM was derived from multiple sources. Aerial imagery was provided in digital format by the Maricopa County Department of Public Works, Flood Control District. The imagery is dated October 2009 to November 2009. Additional National Agricultural Imagery Program (NAIP) imagery was provided by the Arizona State Land Department (ALRIS) and is dated 2007. The coordinate system used for the production of the digital FIRM is State Plane Arizona Central NAD83 HARN, International Feet.

The **profile baseline** depicted on this map represents the hydraulic modeling baselines that match flood profiles in the FIS report. As a result of improved topographic data, the **profile baseline**, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

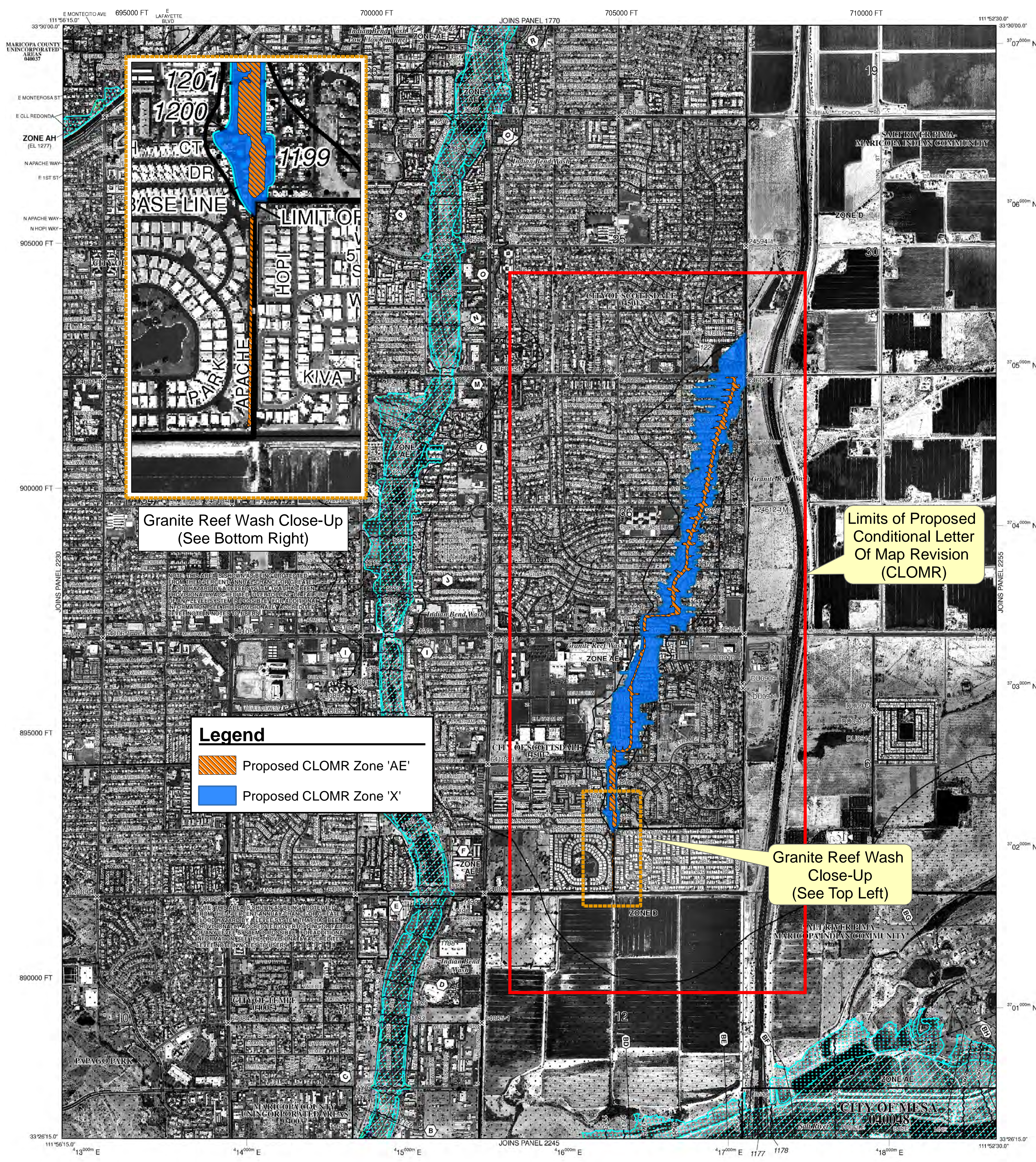
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM, visit the **Map Service Center (MSC)** website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

If you have **questions about this map**, how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information eXchange (FMIX)** at 1-877-FEMA MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov>.

Provisionally Accredited Levee Notes to Users: Check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection for areas on this panel. To maintain accreditation, the levee owner or community is required to submit the data and documentation necessary to comply with Section 65.10 of the NFIP regulations by June 25, 2011. If the community or owner does not provide the necessary data and documentation or if the data and documentation provided indicate the levee system does not comply with Section 65.10 requirements, FEMA will revise the flood hazard and risk information for this area to reflect de-accreditation of the levee system. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA Website at <http://www.fema.gov/business/nfip/index.shtml>.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHA) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.

- ZONE A No Base Flood Elevations determined.
- ZONE AE Base Flood Elevations determined.
- ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decommissioned. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, Flood depths or flood velocities
- Base Flood Elevation line and value; elevation in feet*
- Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988 (NAVD 88)

- ⊙ Cross section line
- ⊙ Transsect line
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
- 1000-meter Universal Transverse Mercator grid ticks, zone 12
- 5000-foot grid ticks: Arizona State Plane coordinate system (central zone (FIPSZONE 0202), Transverse Mercator)
- DX5510 Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 River Mile

MAP REPOSITORIES

Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP

April 15, 1988

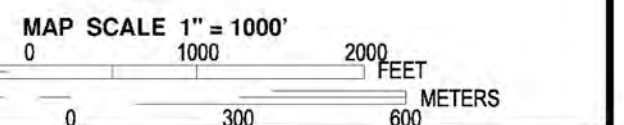
EFFECTIVE DATES OF REVISIONS TO THIS PANEL

July 19, 2001 - September 30, 2005

October 16, 2013 - to advance suffix, to add floodway, to change base flood elevations, to change floodway, to update corporate limits, to add roads and road names, to incorporate previously issued letters of map revision, to add base flood elevation, and to add special flood hazard areas.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6630.



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 2235L

FIRM FLOOD INSURANCE RATE MAP

MARICOPA COUNTY, ARIZONA AND INCORPORATED AREAS

PANEL 2235 OF 4425
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:	COMMUNITY	NUMBER	PANEL	SUFFIX
MARICOPA COUNTY	040037	2235	L	
MESA CITY OF	040048	2235	L	
SCOTTSDALE CITY OF	040512	2235	L	
TEMPE CITY OF	040054	2235	L	

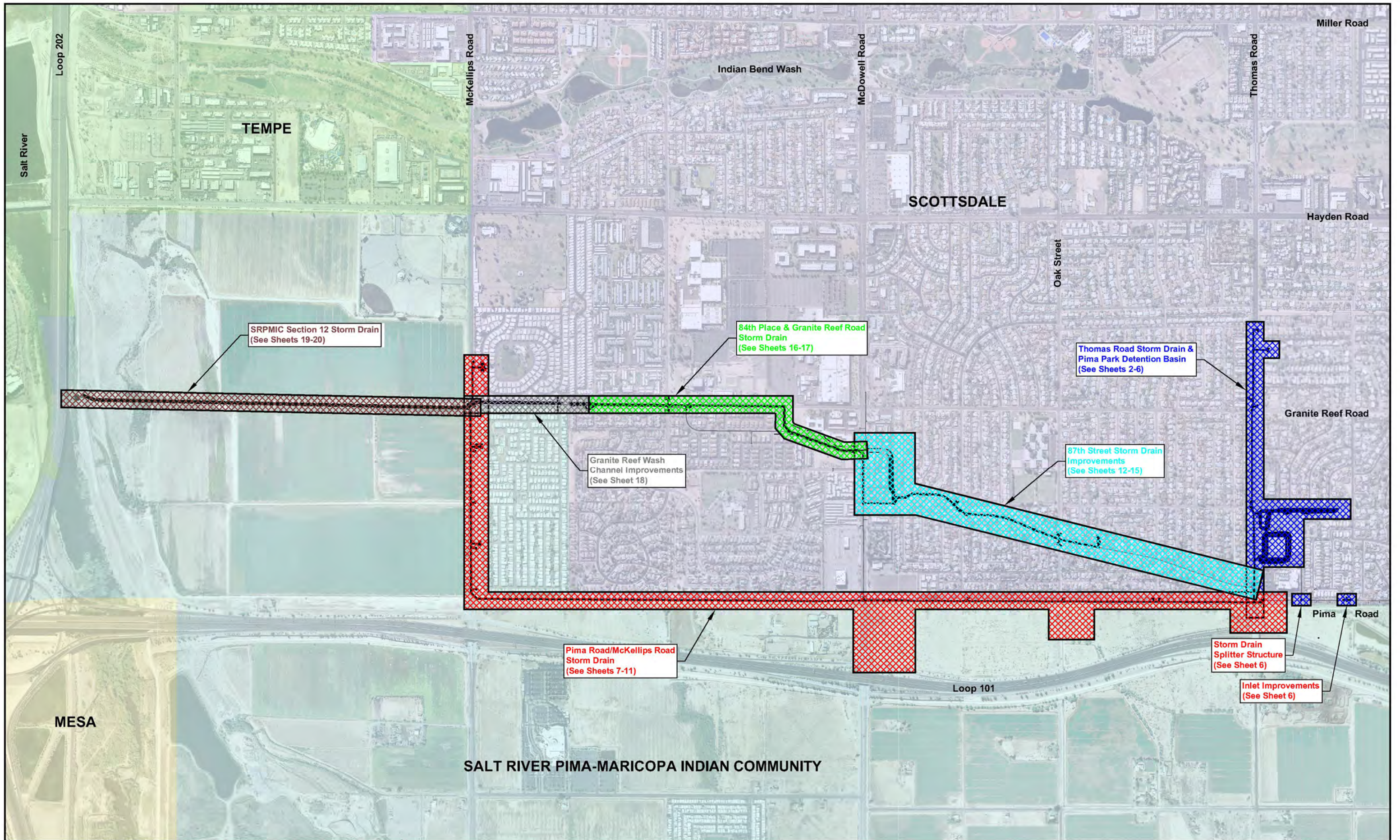
Notice to User: The **Map Number** shown below should be used when placing map orders. The **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
04013C2235L

MAP REVISED
OCTOBER 16, 2013

Federal Emergency Management Agency

**Exhibit 4: Granite Reef Watershed –
Phase II Drainage Improvement Plan**



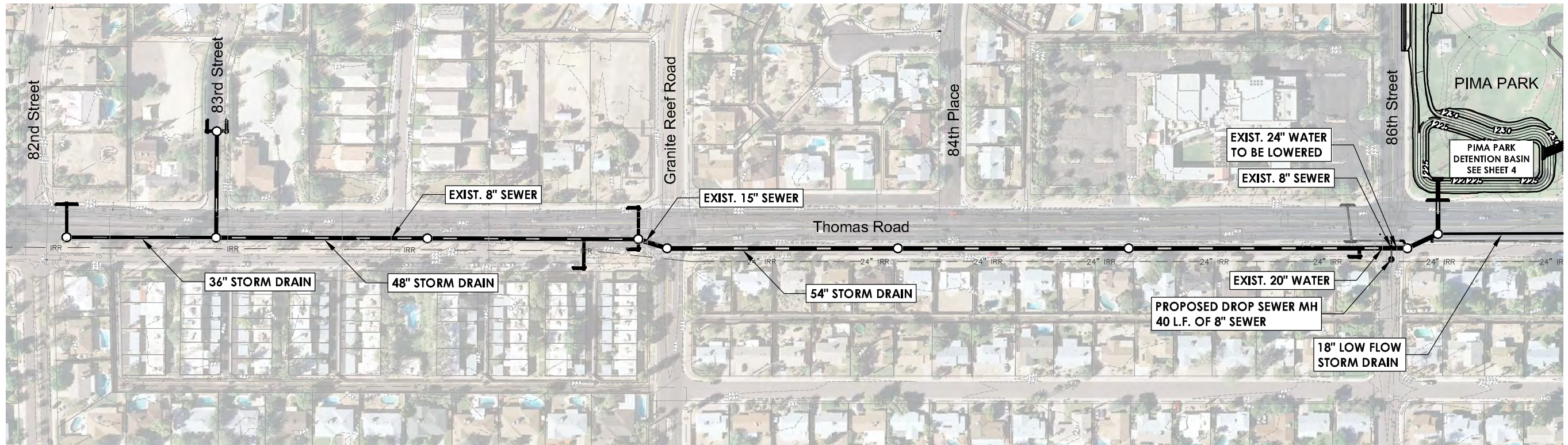
**GRANITE REEF WATERSHED PHASE II
DRAINAGE PLANNING AND STORM DRAIN DESIGN**



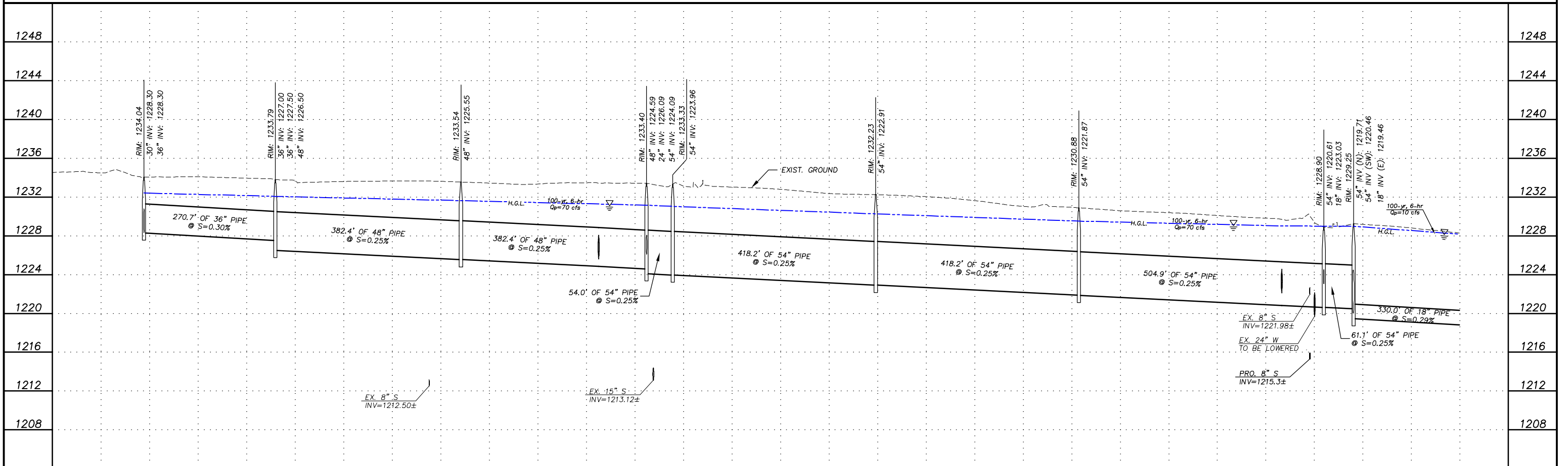
PROPOSED IMPROVEMENTS:
Recommended Plan Key Map

	By	Date
Prepared	AJA	7/9/2021
Checked	MTG	7/9/2021

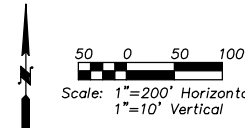
Sheet 1 Of 20



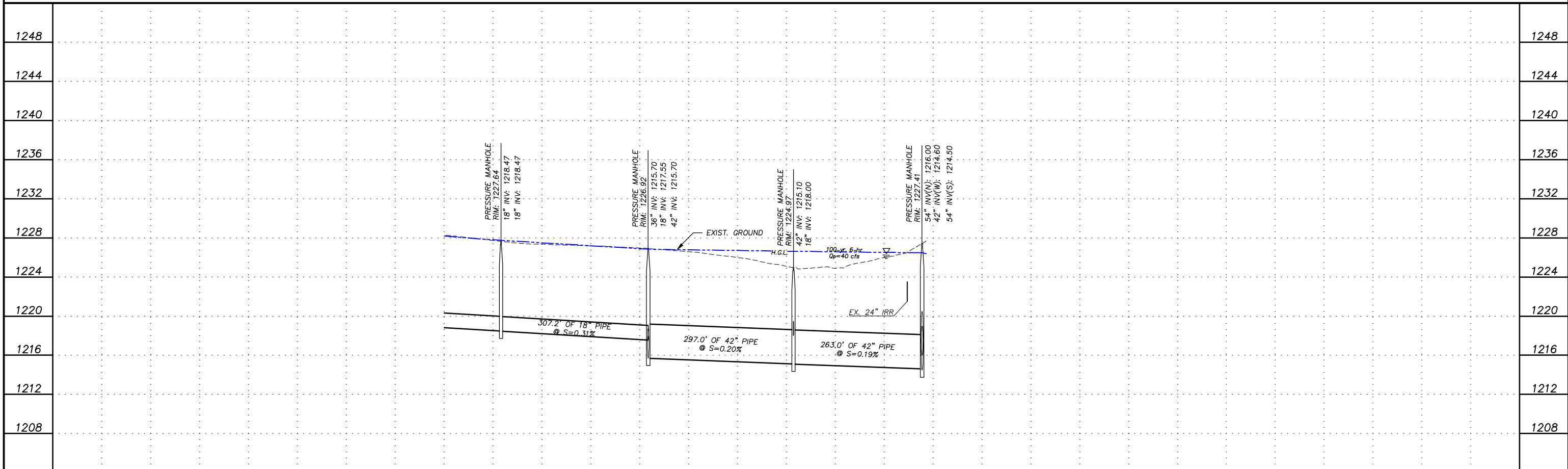
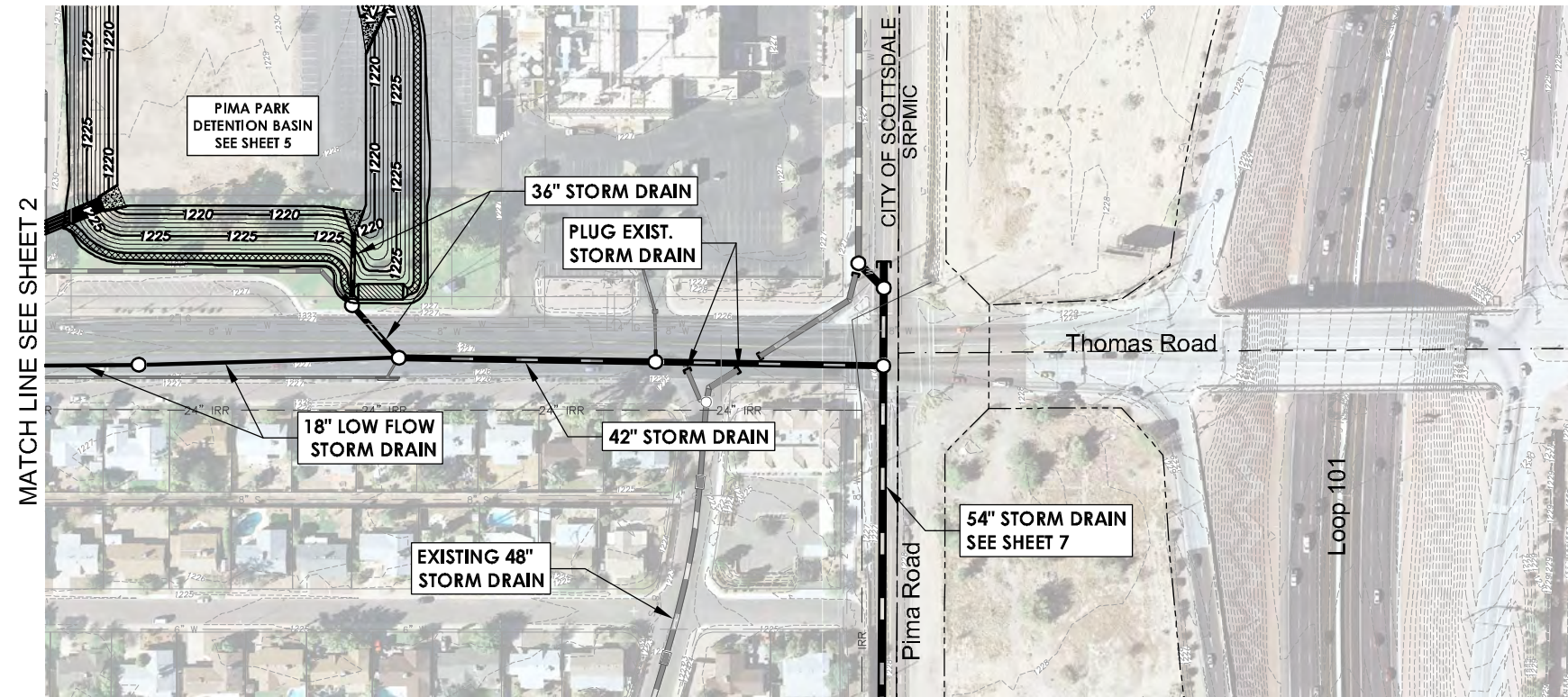
MATCH LINE SEE SHEET 3



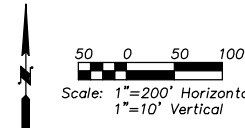
GRANITE REEF WATERSHED PHASE II DRAINAGE PLANNING AND STORM DRAIN DESIGN



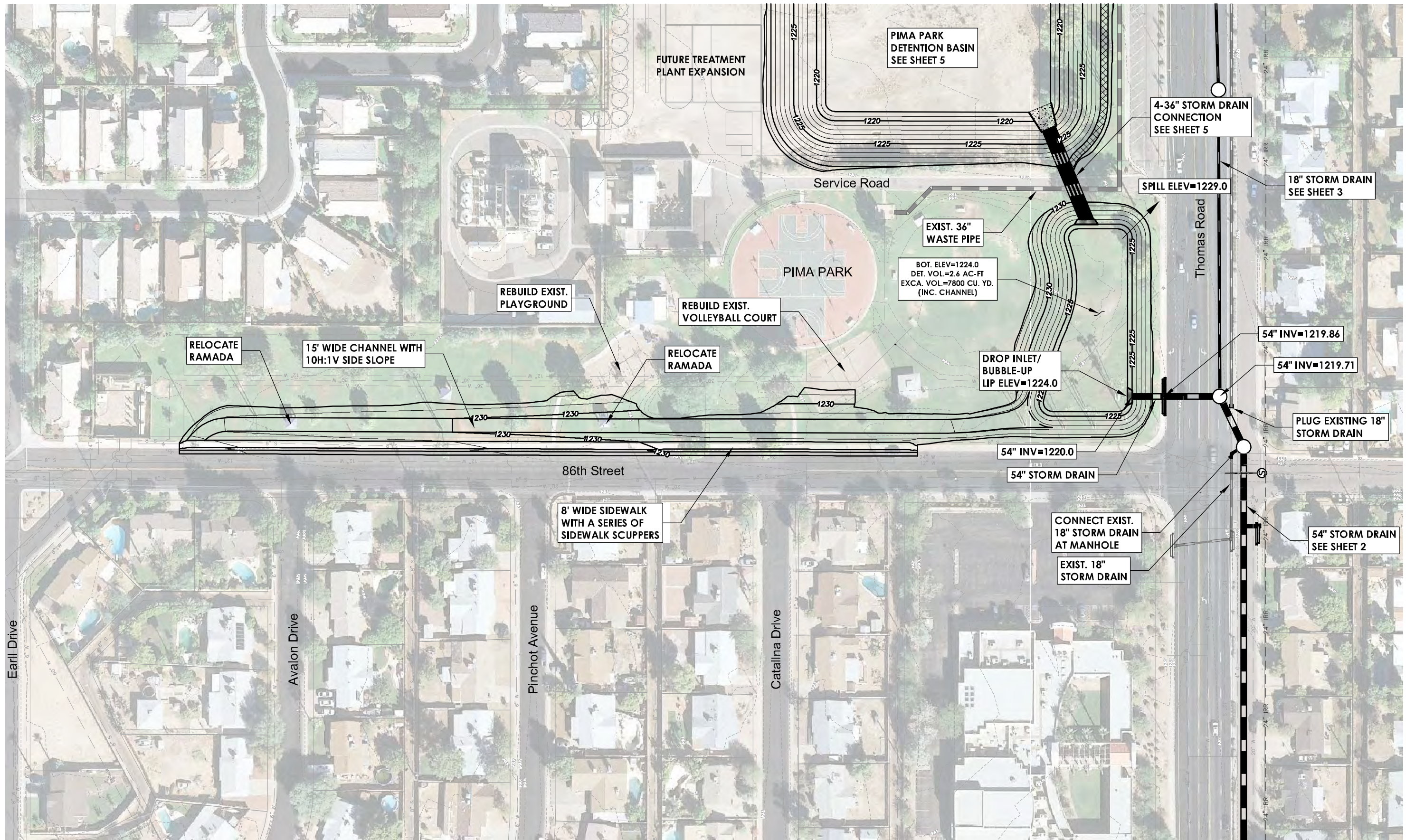
PROPOSED IMPROVEMENTS: THOMAS RD. STORM DRAIN & PIMA PARK DETENTION BASIN		
By	AJA	Date 7/9/2021
Checked	MTG	7/9/2021
Sheet 2 Of 20		



**GRANITE REEF WATERSHED PHASE II
DRAINAGE PLANNING AND STORM DRAIN DESIGN**



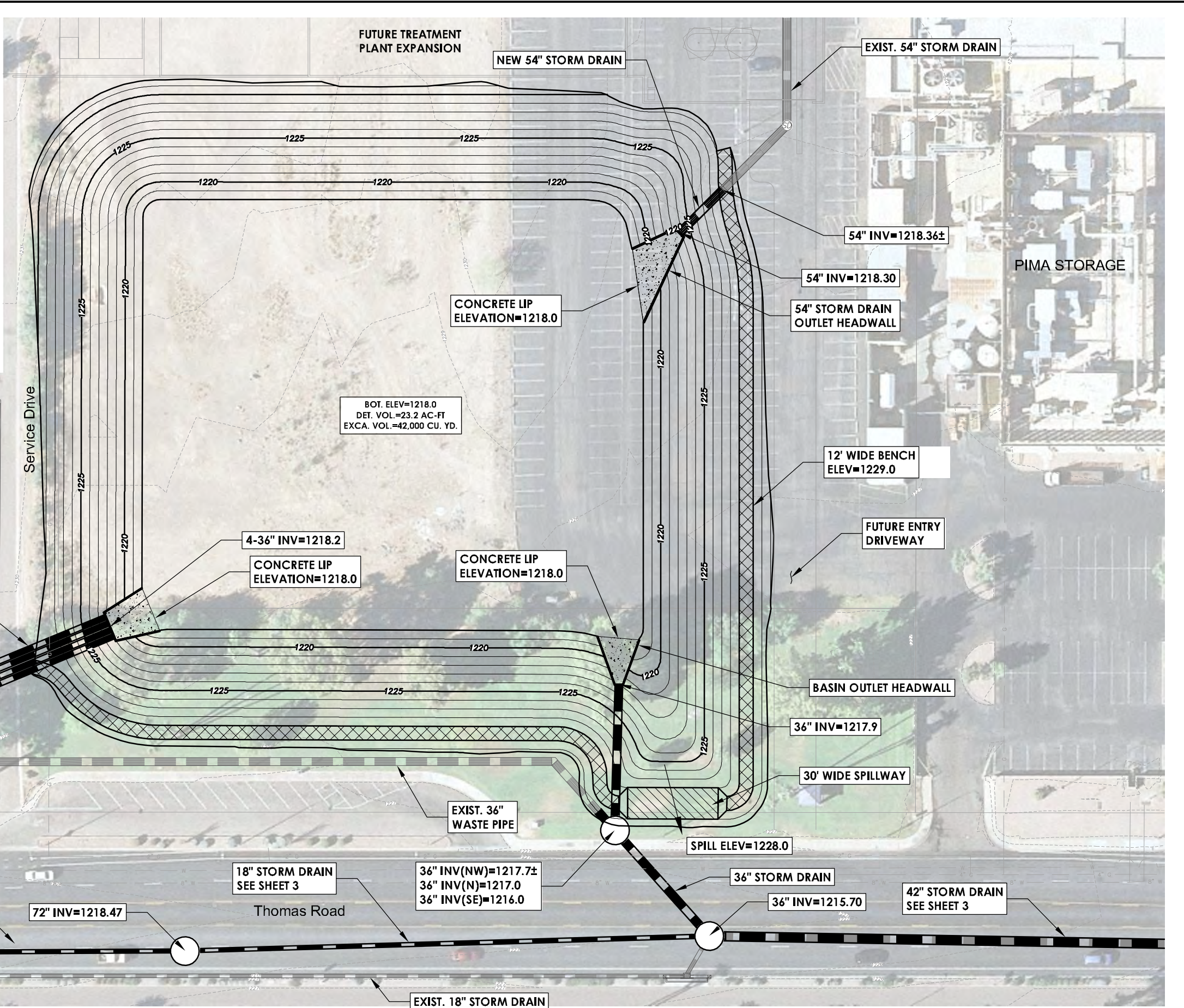
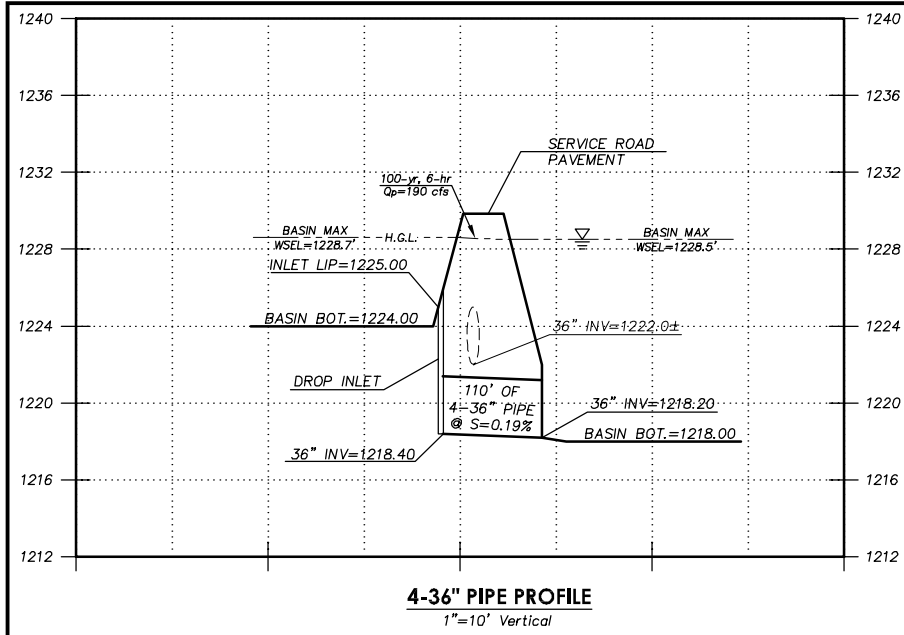
PROPOSED IMPROVEMENTS: THOMAS RD. STORM DRAIN & PIMA PARK DETENTION BASIN		
By	AJA	Date 7/9/2021
Checked	MTG	7/9/2021
Sheet 3 Of 20		



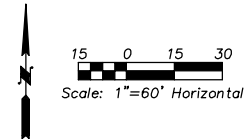
**GRANITE REEF WATERSHED PHASE II
DRAINAGE PLANNING AND STORM DRAIN DESIGN**



PROPOSED IMPROVEMENTS: THOMAS RD. STORM DRAIN & PIMA PARK DETENTION BASIN		
By	AJA	Date
Prepared	MTG	7/9/2021
Checked	MTG	7/9/2021
Sheet 4 Of 20		

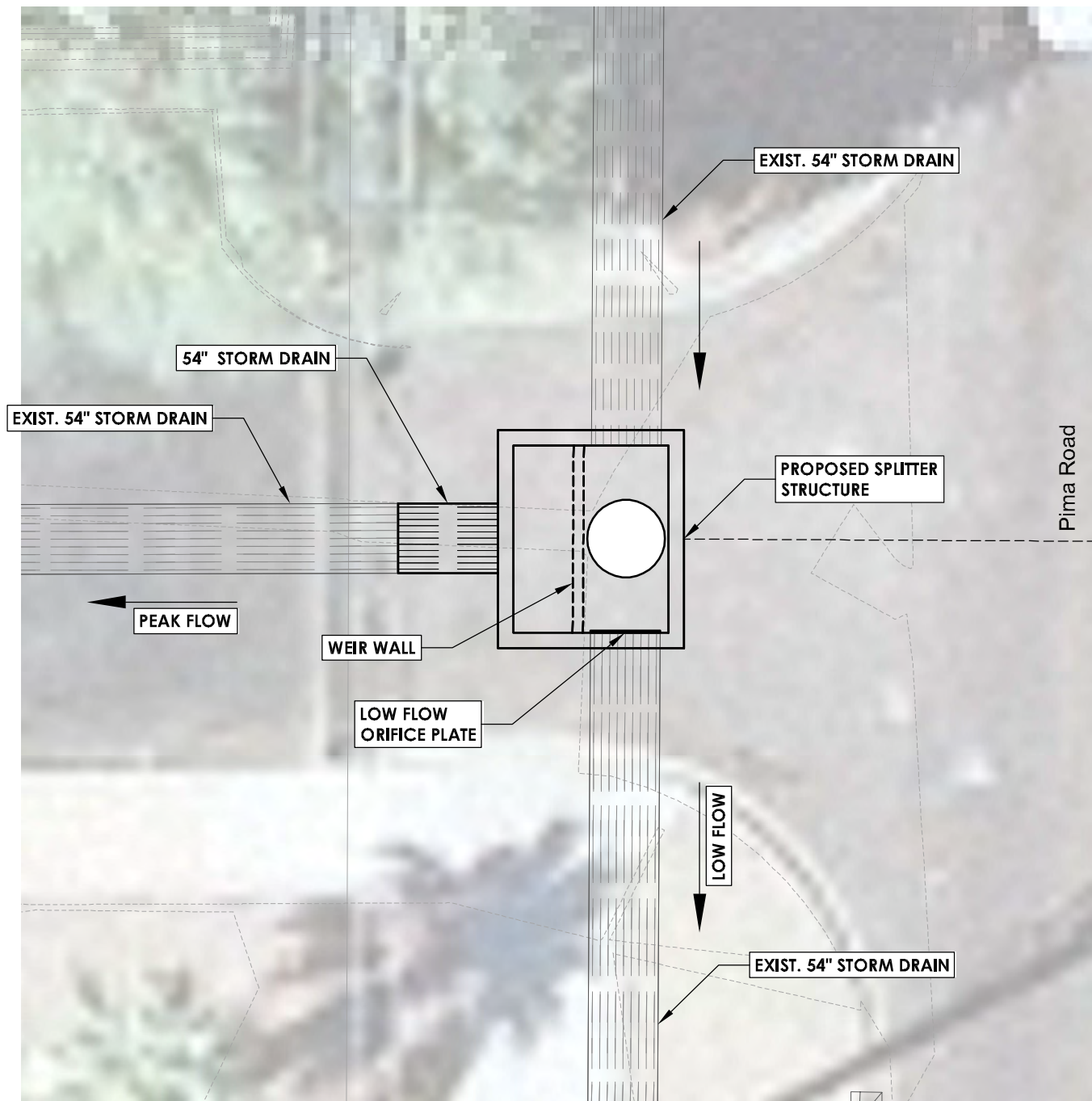


GRANITE REEF WATERSHED PHASE II
DRAINAGE PLANNING AND STORM DRAIN DESIGN



PROPOSED IMPROVEMENTS:
THOMAS RD. STORM DRAIN & PIMA PARK DETENTION BASIN

By	AJA	Date	7/9/2021
Prepared	MTG		7/9/2021
Checked			
Sheet 5 Of 20			

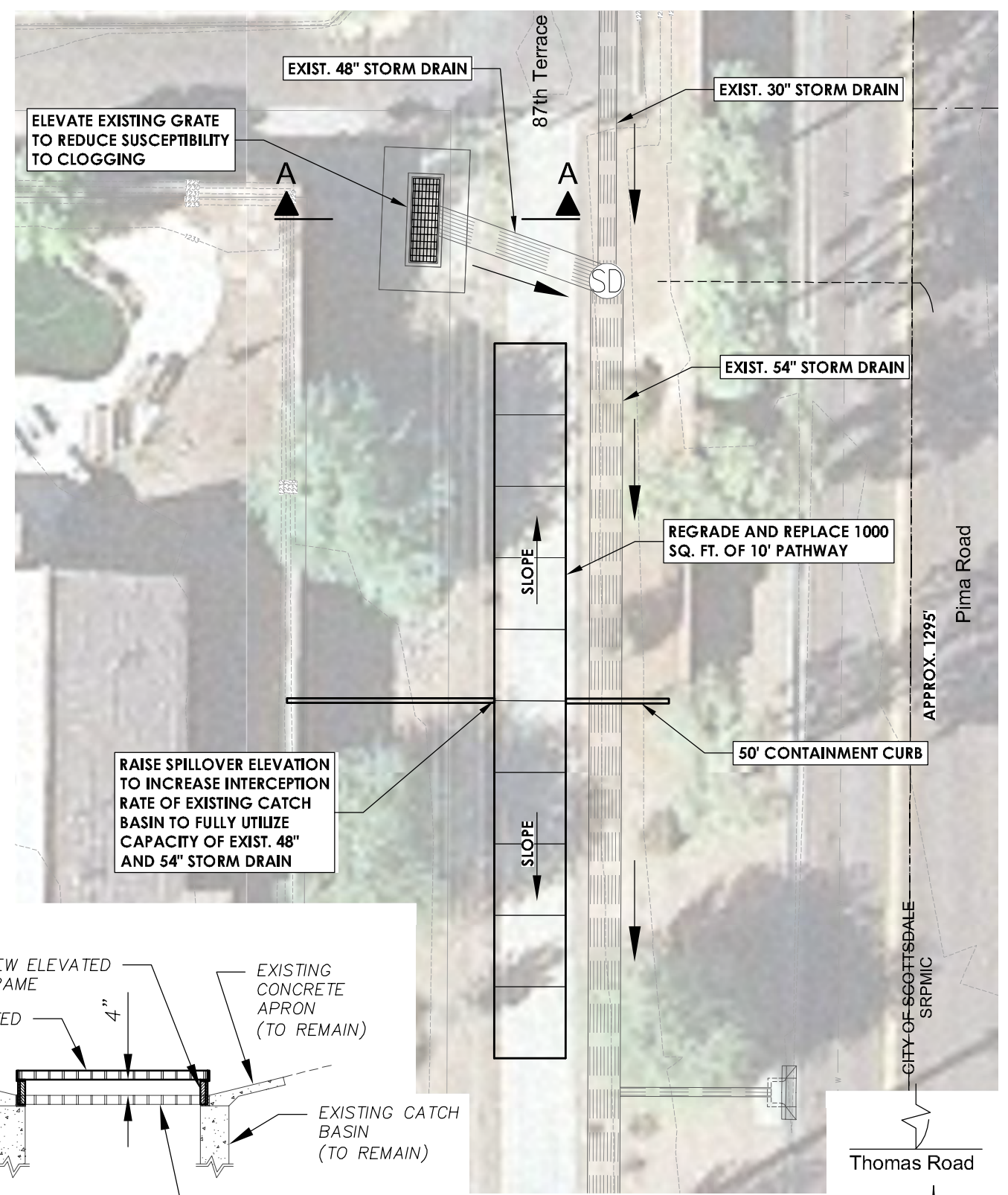
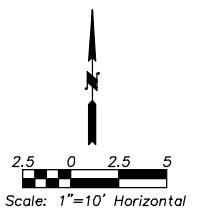


PIMA ROAD STORM DRAIN SPLITTER STRUCTURE

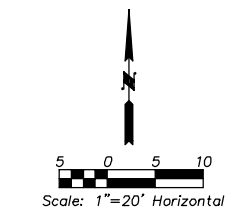
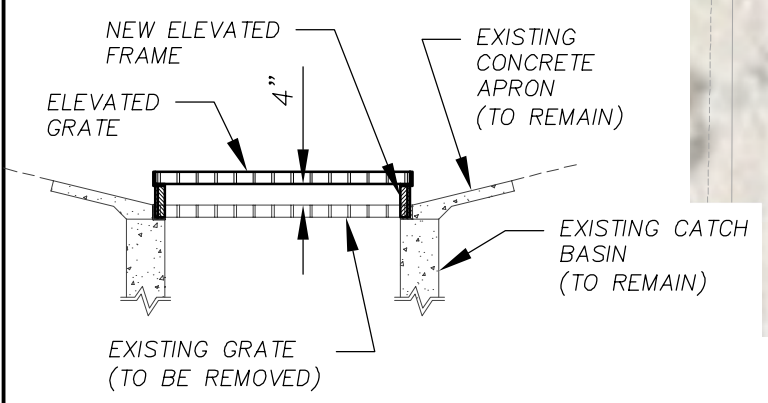
Thomas Road

APPROX. 625'

Pima Road



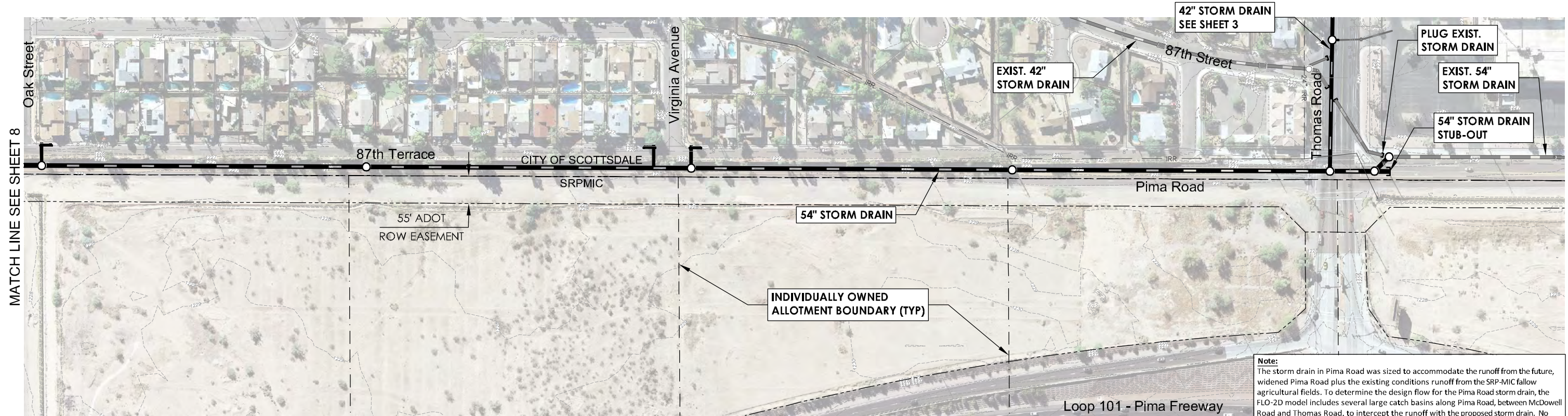
EXISTING EARLL ROAD (EXTENDED) AND 87TH TERRACE GRATED INLET IMPROVEMENTS



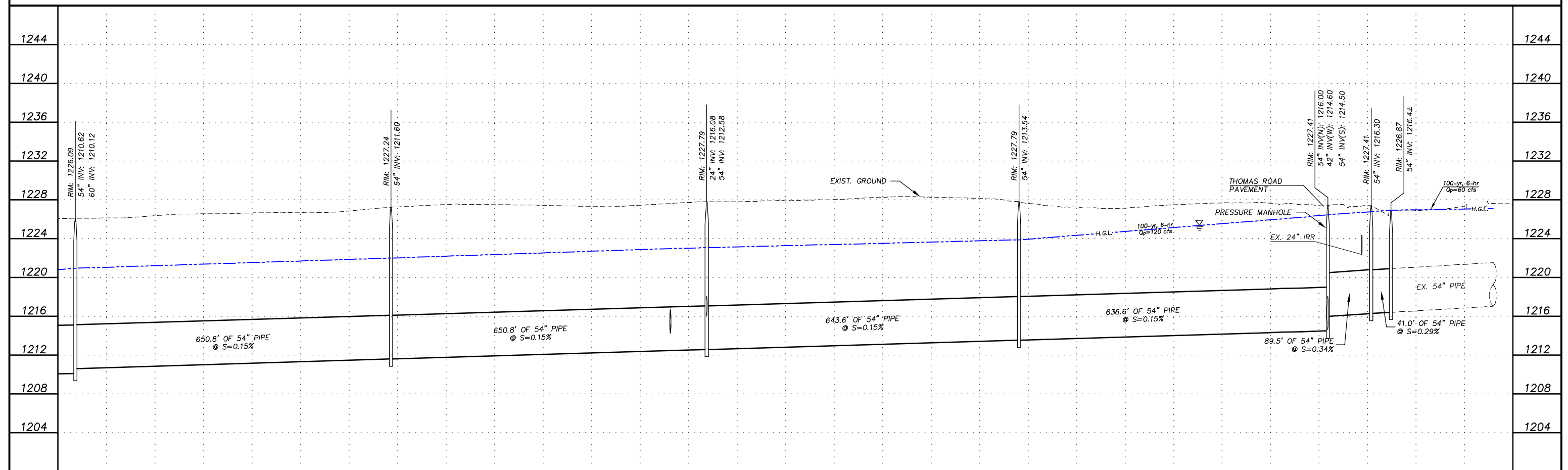
GRANITE REEF WATERSHED PHASE II DRAINAGE PLANNING AND STORM DRAIN DESIGN



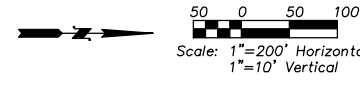
PROPOSED IMPROVEMENTS: THOMAS RD. STORM DRAIN & PIMA PARK DETENTION BASIN		
By	AJA	Date
Prepared	7/9/2021	7/9/2021
Checked	MTG	7/9/2021
Sheet 6 Of 20		



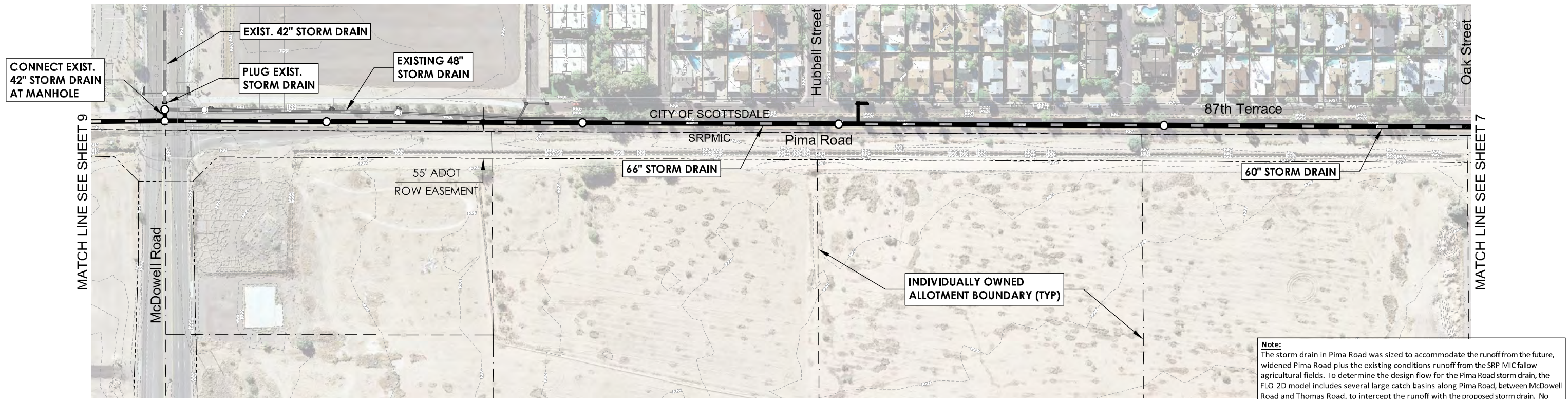
Note:
 The storm drain in Pima Road was sized to accommodate the runoff from the future, widened Pima Road plus the existing conditions runoff from the SRP-MIC fallow agricultural fields. To determine the design flow for the Pima Road storm drain, the FLO-2D model includes several large catch basins along Pima Road, between McDowell Road and Thomas Road, to intercept the runoff with the proposed storm drain. No attempt was made to locate and/or design these inlets. It is the responsibility of the designer of the Pima Road widening project to properly size and locate the storm drain catch basins along Pima Road to capture the runoff from the 100-year, 6-hour storm.



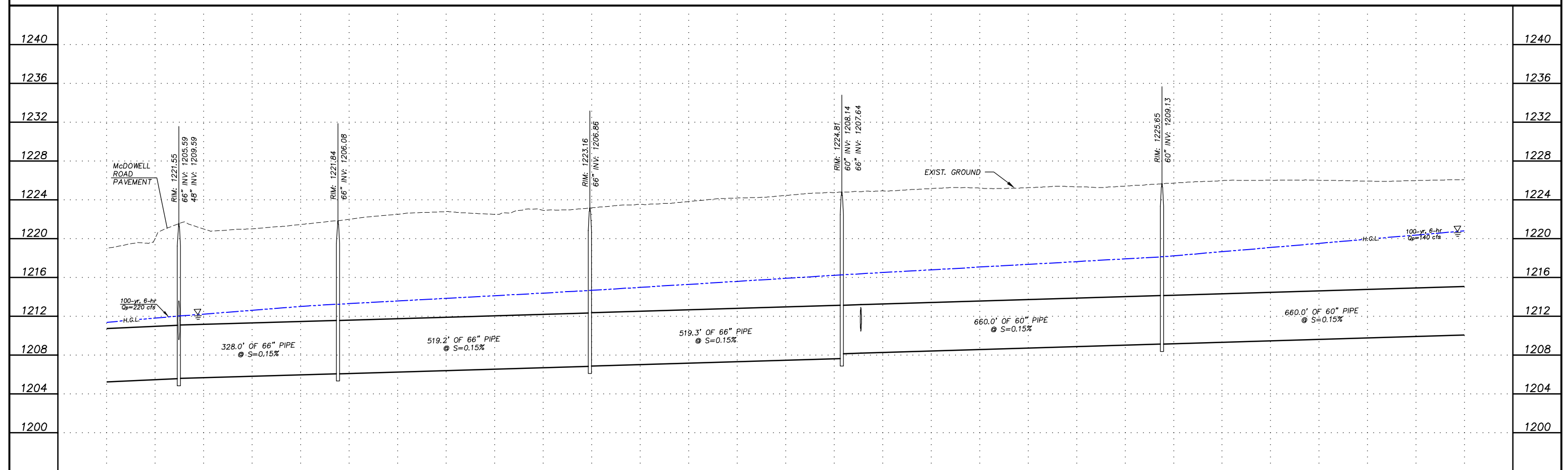
**GRANITE REEF WATERSHED PHASE II
 DRAINAGE PLANNING AND STORM DRAIN DESIGN**



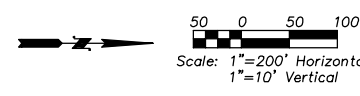
PROPOSED IMPROVEMENTS: PIMA/MCKELLIPS ROAD STORM DRAIN		
By	Date	
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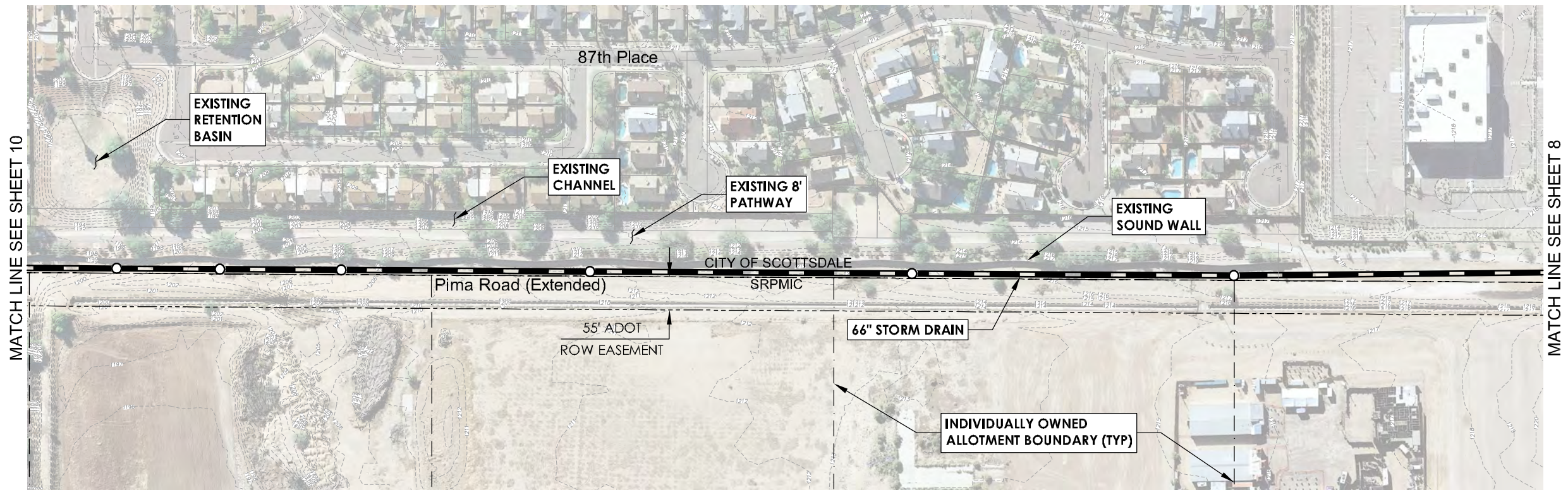
Note:
 The storm drain in Pima Road was sized to accommodate the runoff from the future, widened Pima Road plus the existing conditions runoff from the SRP-MIC fallow agricultural fields. To determine the design flow for the Pima Road storm drain, the FLO-2D model includes several large catch basins along Pima Road, between McDowell Road and Thomas Road, to intercept the runoff with the proposed storm drain. No attempt was made to locate and/or design these inlets. It is the responsibility of the designer of the Pima Road widening project to properly size and locate the storm drain catch basins along Pima Road to capture the runoff from the 100-year, 6-hour storm.



**GRANITE REEF WATERSHED PHASE II
 DRAINAGE PLANNING AND STORM DRAIN DESIGN**

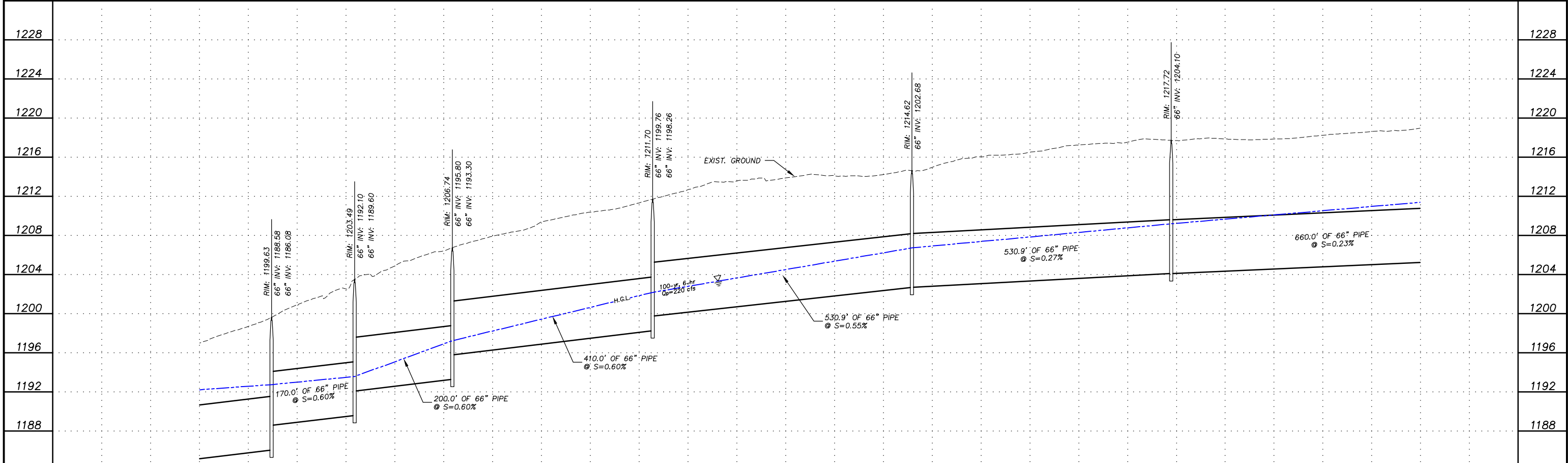


PROPOSED IMPROVEMENTS: PIMA/MCKELLIPS ROAD STORM DRAIN		
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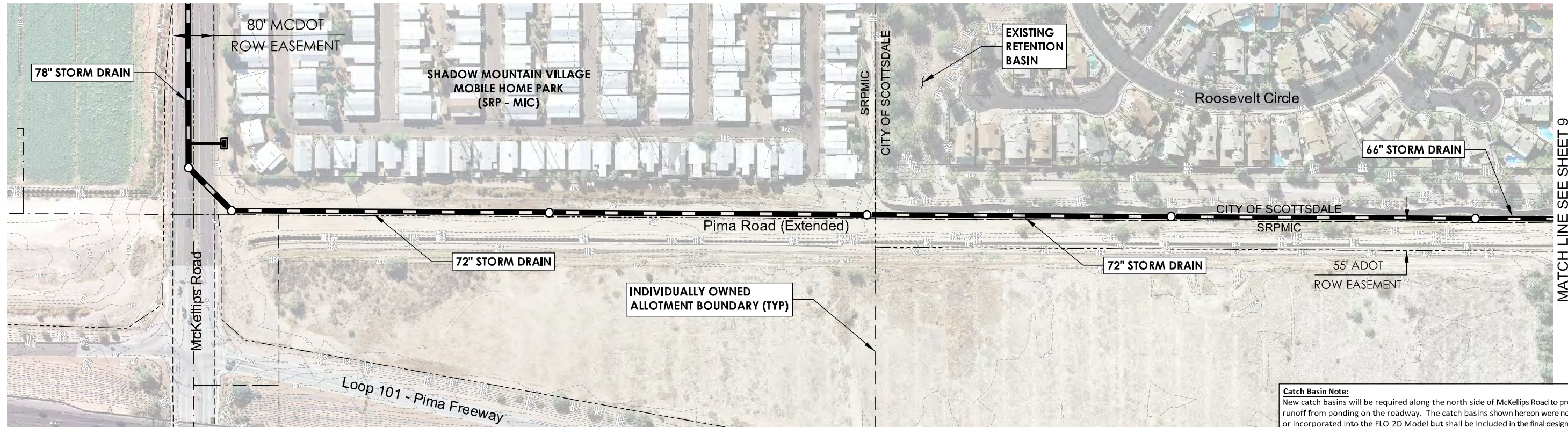


GRANITE REEF WATERSHED PHASE II DRAINAGE PLANNING AND STORM DRAIN DESIGN

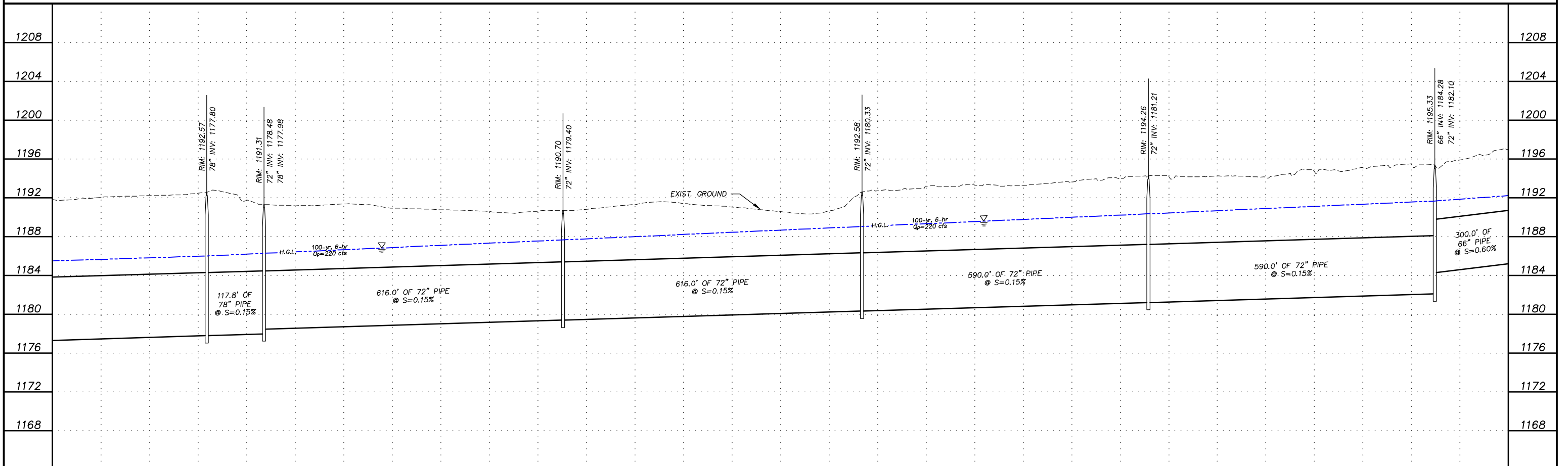


PROPOSED IMPROVEMENTS:		
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Catch Basin Note:
 New catch basins will be required along the north side of McKellips Road to prevent runoff from ponding on the roadway. The catch basins shown hereon were not sized or incorporated into the FLO-2D Model but shall be included in the final design to capture runoff from the small area that lies between the centerline of McKellips Road and the perimeter walls of the mobile home parks.



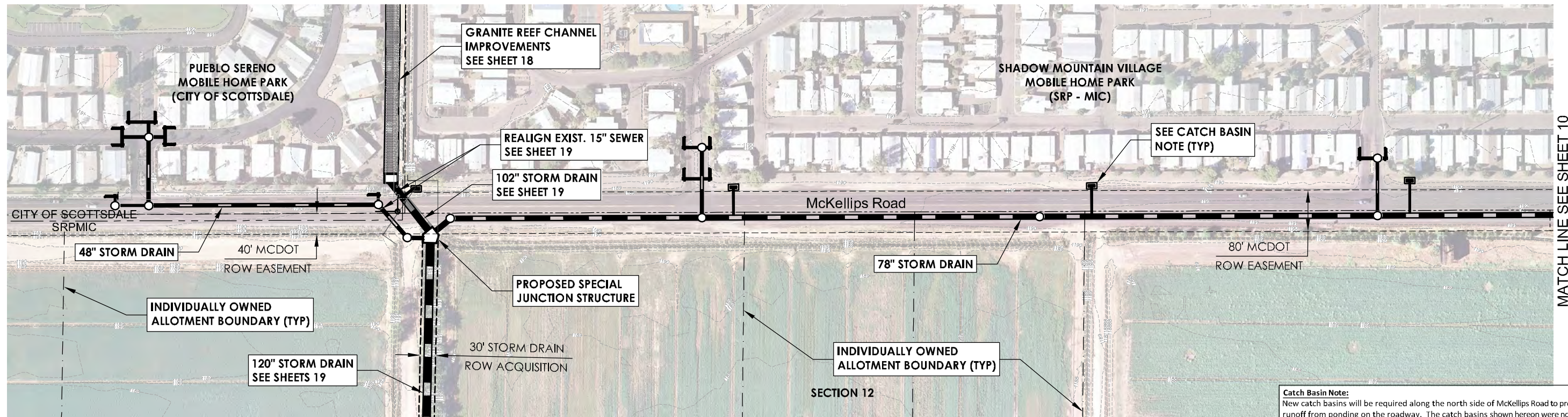
**GRANITE REEF WATERSHED PHASE II
 DRAINAGE PLANNING AND STORM DRAIN DESIGN**



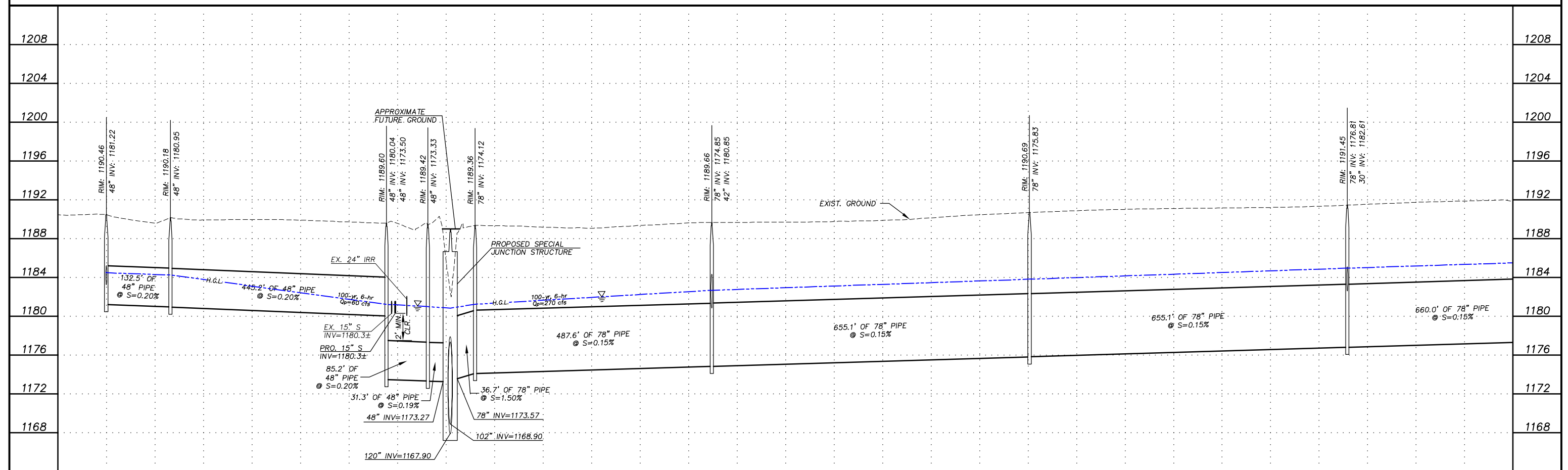
**PROPOSED IMPROVEMENTS:
 PIMA/MCKELLIPS ROAD STORM DRAIN**

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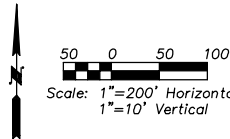
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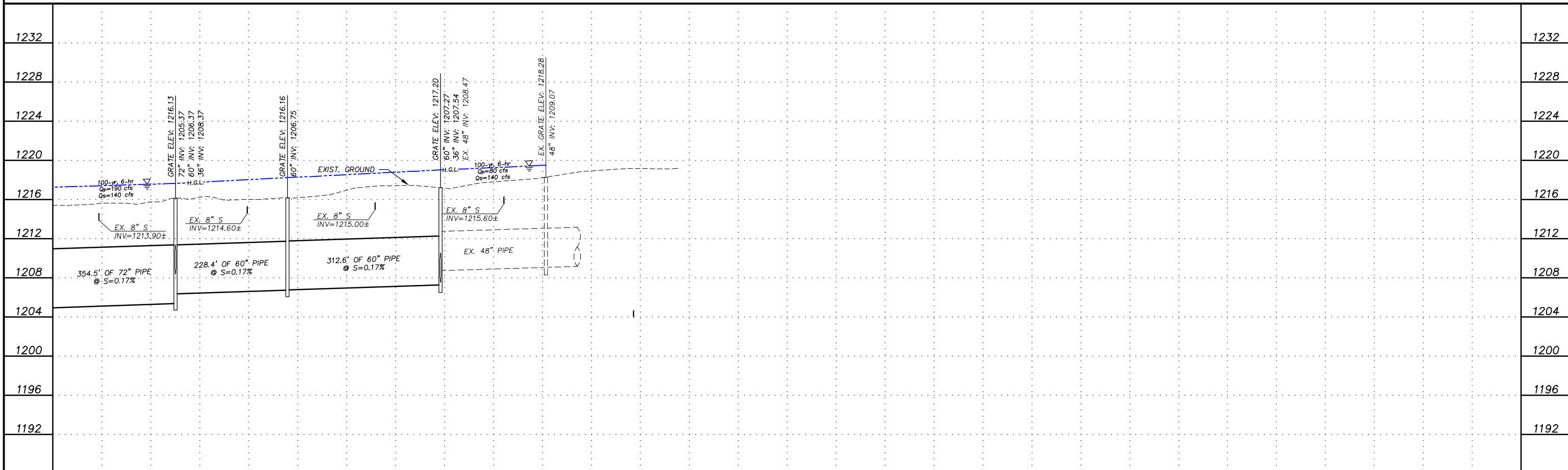
Catch Basin Note:
 New catch basins will be required along the north side of McKellips Road to prevent runoff from ponding on the roadway. The catch basins shown hereon were not sized or incorporated into the FLO-2D Model but shall be included in the final design to capture runoff from the small area that lies between the centerline of McKellips Road and the perimeter walls of the mobile home parks.



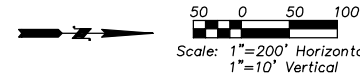
GRANITE REEF WATERSHED PHASE II DRAINAGE PLANNING AND STORM DRAIN DESIGN



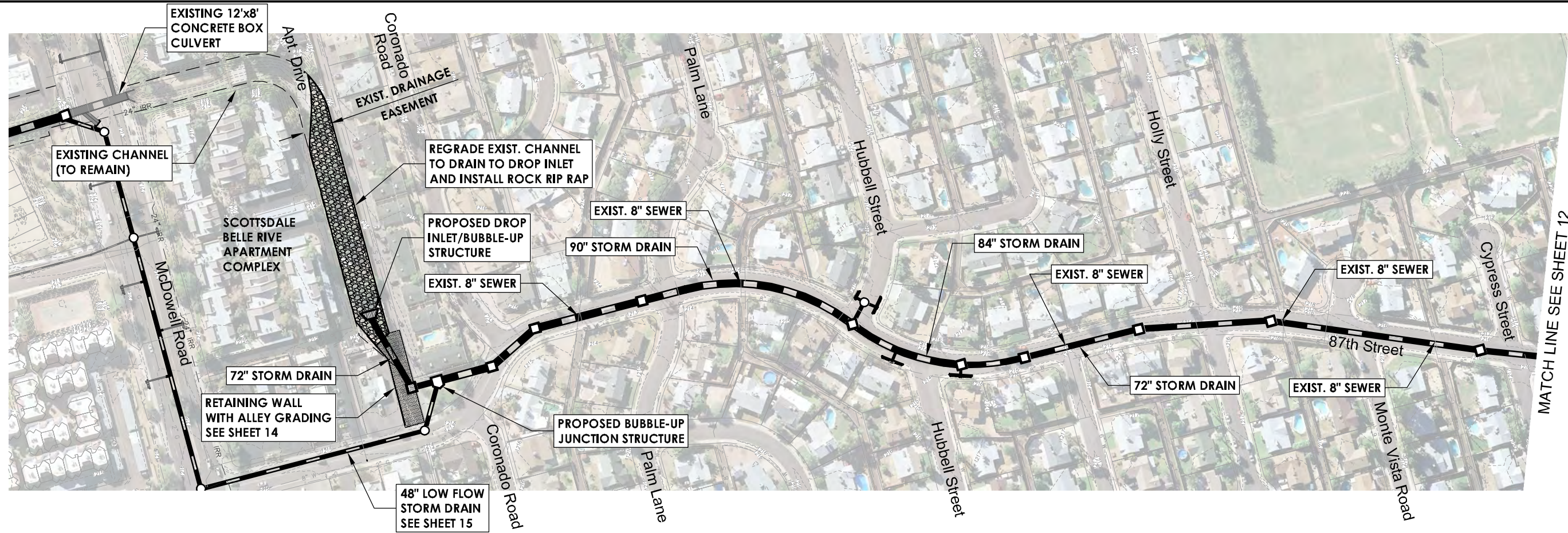
PROPOSED IMPROVEMENTS: PIMA/MCKELLIPS ROAD STORM DRAIN		
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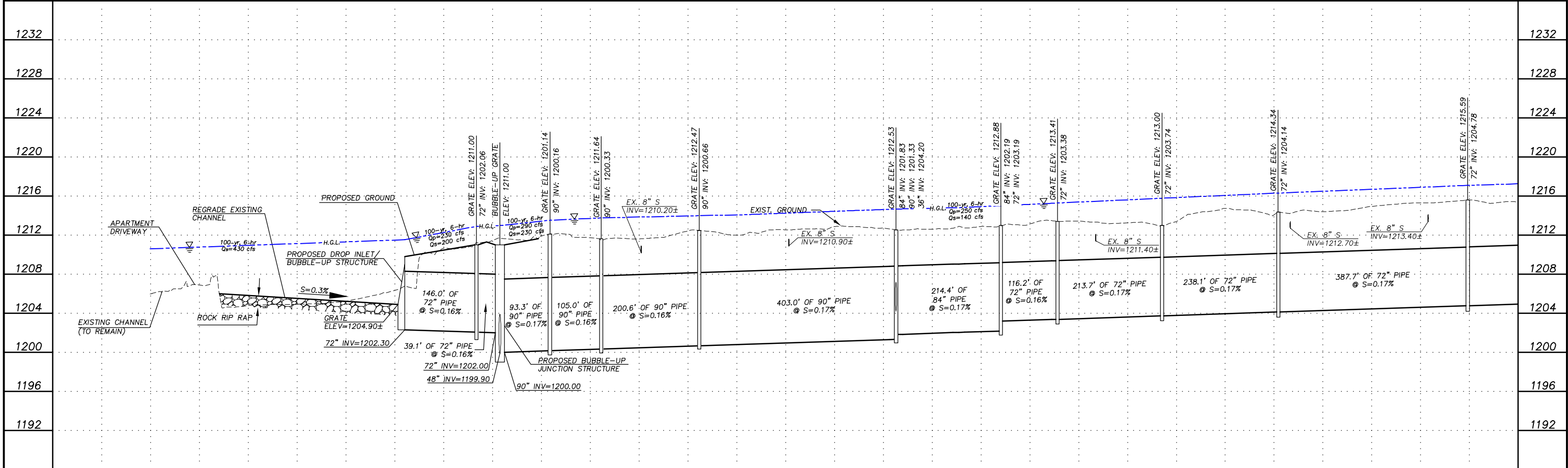
**GRANITE REEF WATERSHED PHASE II
DRAINAGE PLANNING AND STORM DRAIN DESIGN**



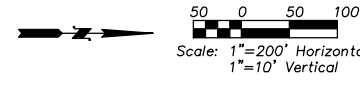
PROPOSED IMPROVEMENTS: 87TH STREET STORM DRAIN IMPROVEMENTS		
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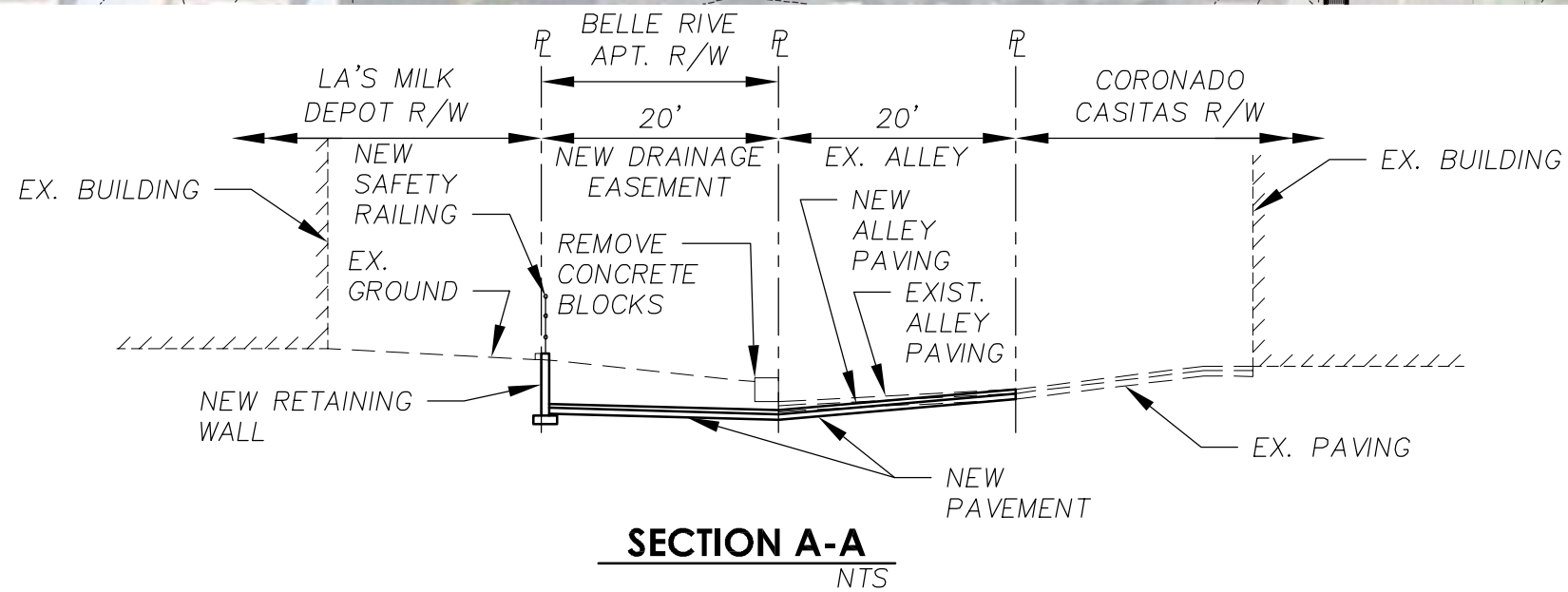
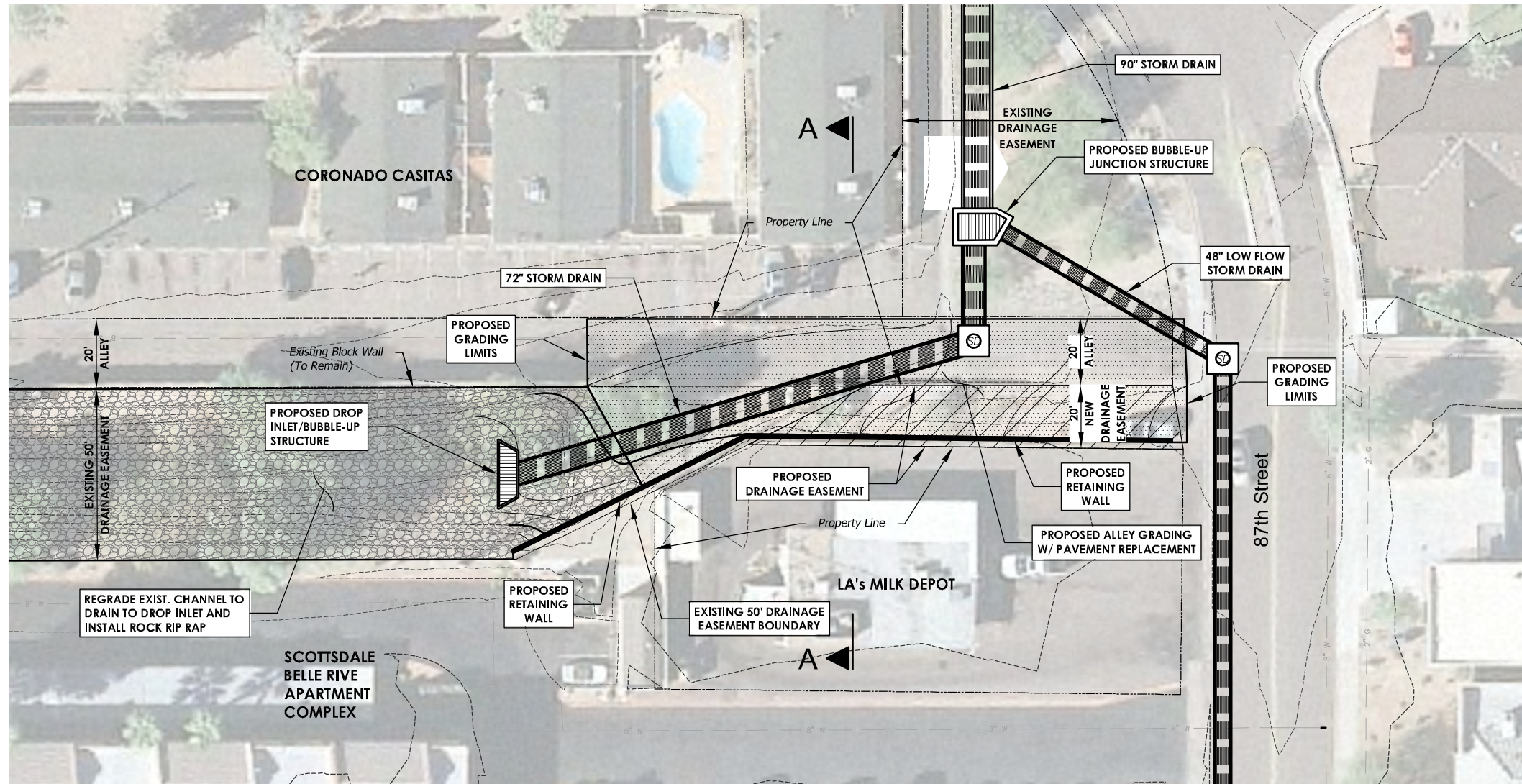
MATCH LINE SEE SHEET 12



GRANITE REEF WATERSHED PHASE II DRAINAGE PLANNING AND STORM DRAIN DESIGN



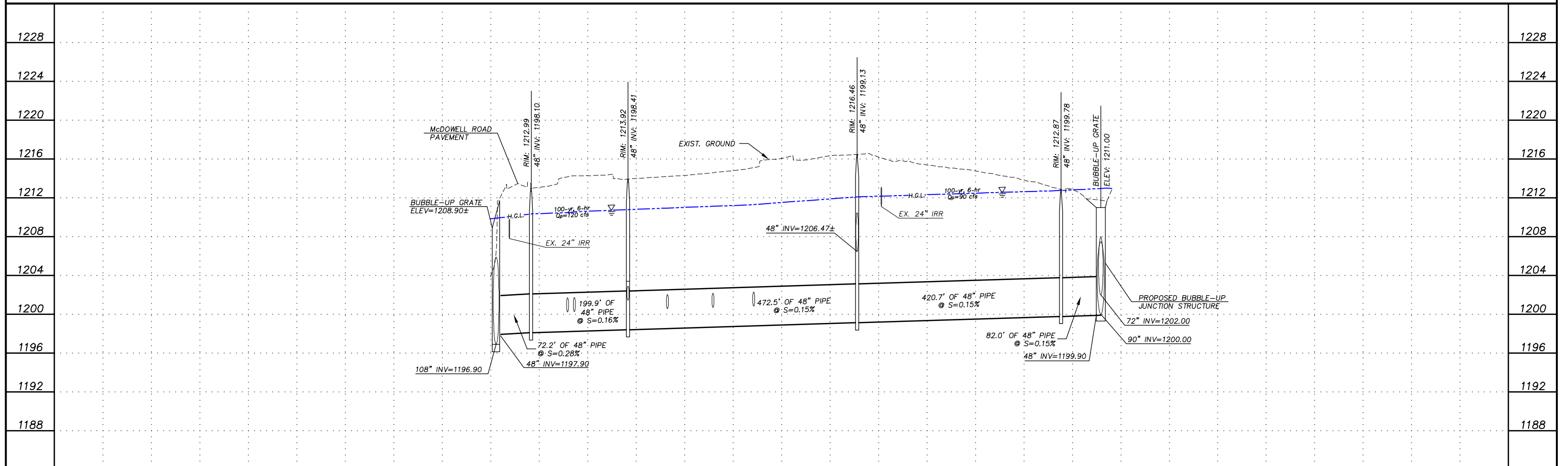
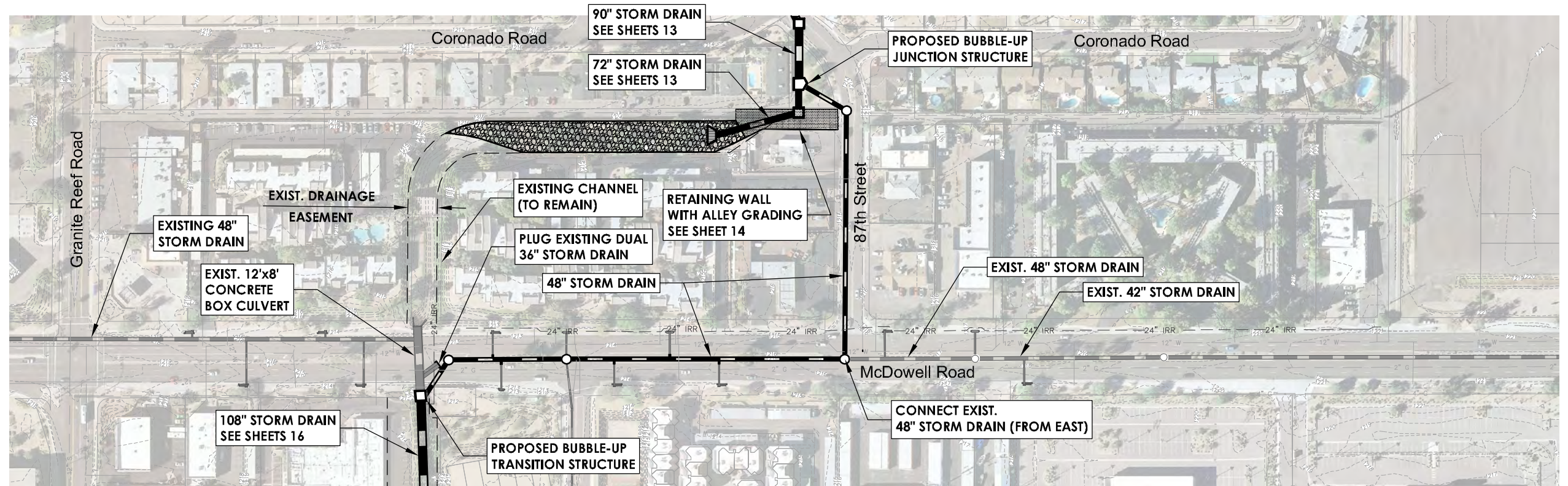
PROPOSED IMPROVEMENTS: 87TH STREET STORM DRAIN IMPROVEMENTS		
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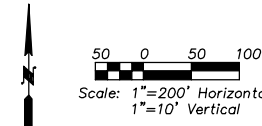
**GRANITE REEF WATERSHED PHASE II
DRAINAGE PLANNING AND STORM DRAIN DESIGN**

Scale: 1"=40' Horizontal

PROPOSED IMPROVEMENTS: 87TH STREET STORM DRAIN IMPROVEMENTS		
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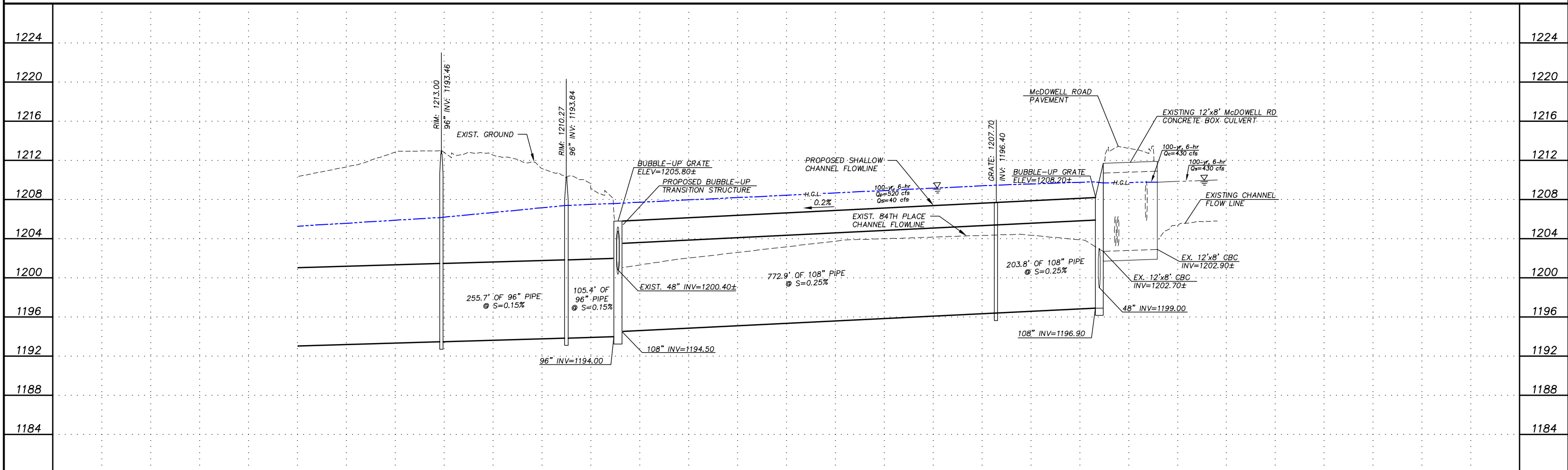
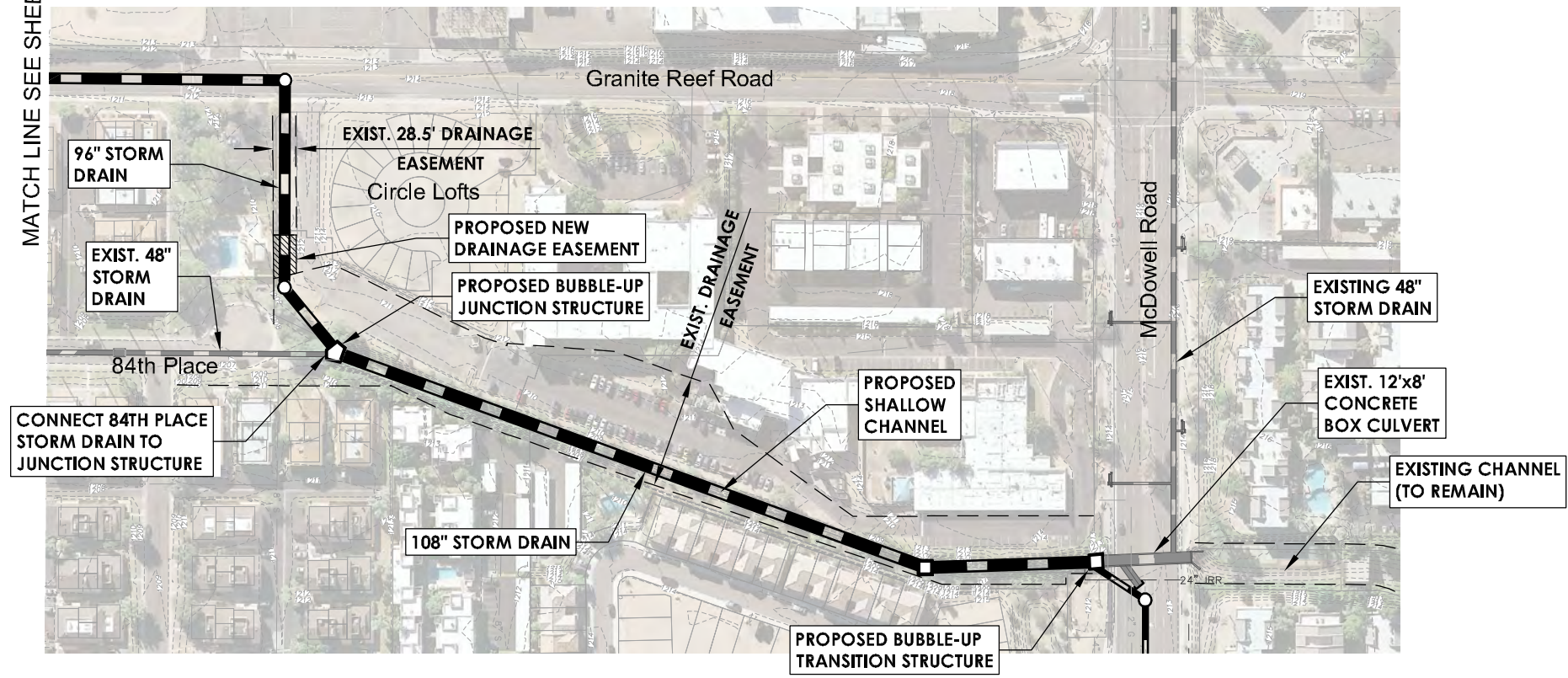


**GRANITE REEF WATERSHED PHASE II
DRAINAGE PLANNING AND STORM DRAIN DESIGN**



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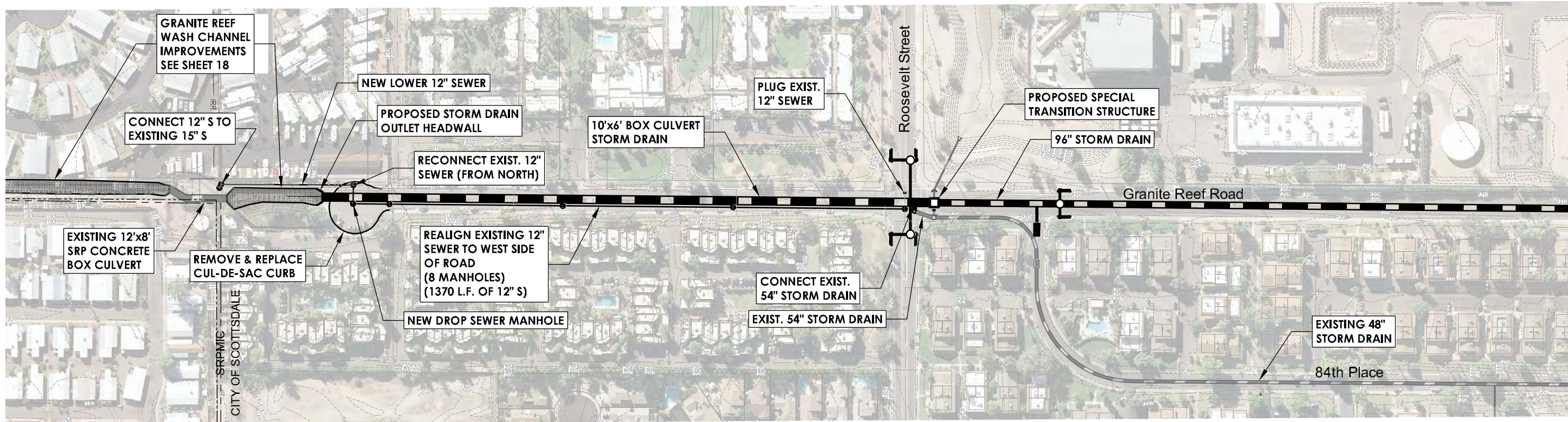
MATCH LINE SEE SHEET 17



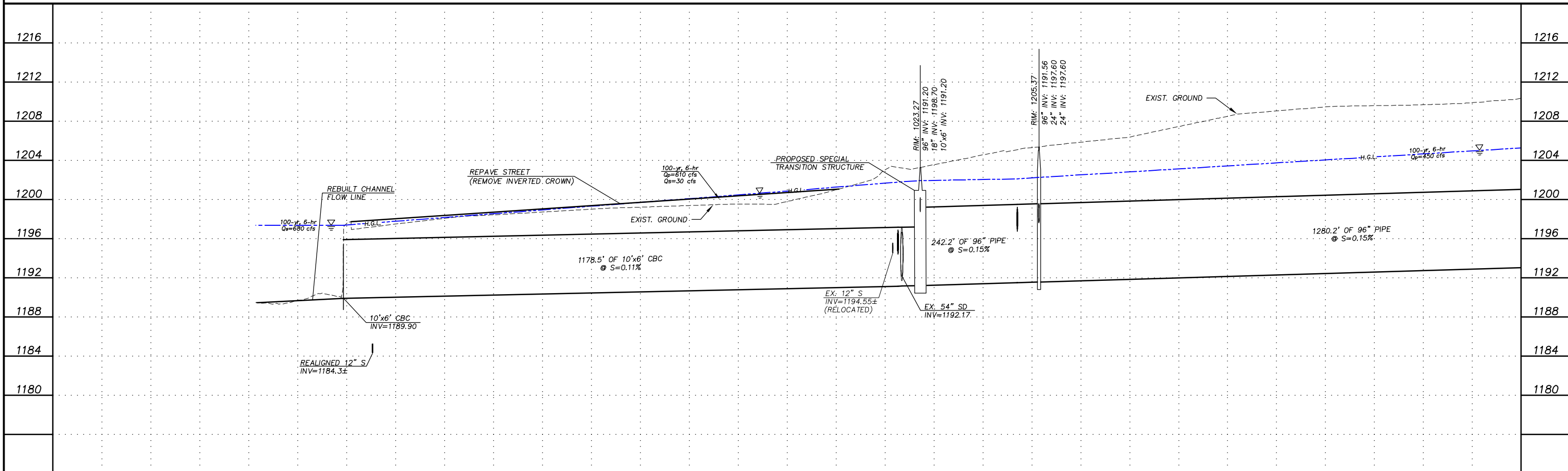
GRANITE REEF WATERSHED PHASE II DRAINAGE PLANNING AND STORM DRAIN DESIGN



PROPOSED IMPROVEMENTS: 84TH PLACE/GRANITE REEF ROAD STORM DRAIN		
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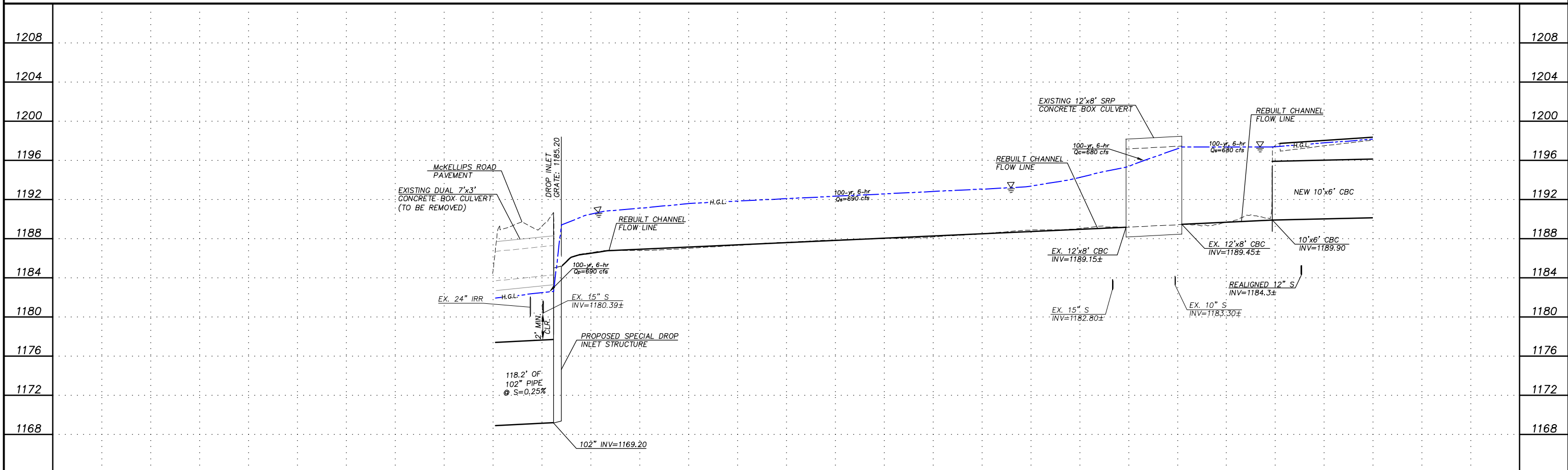
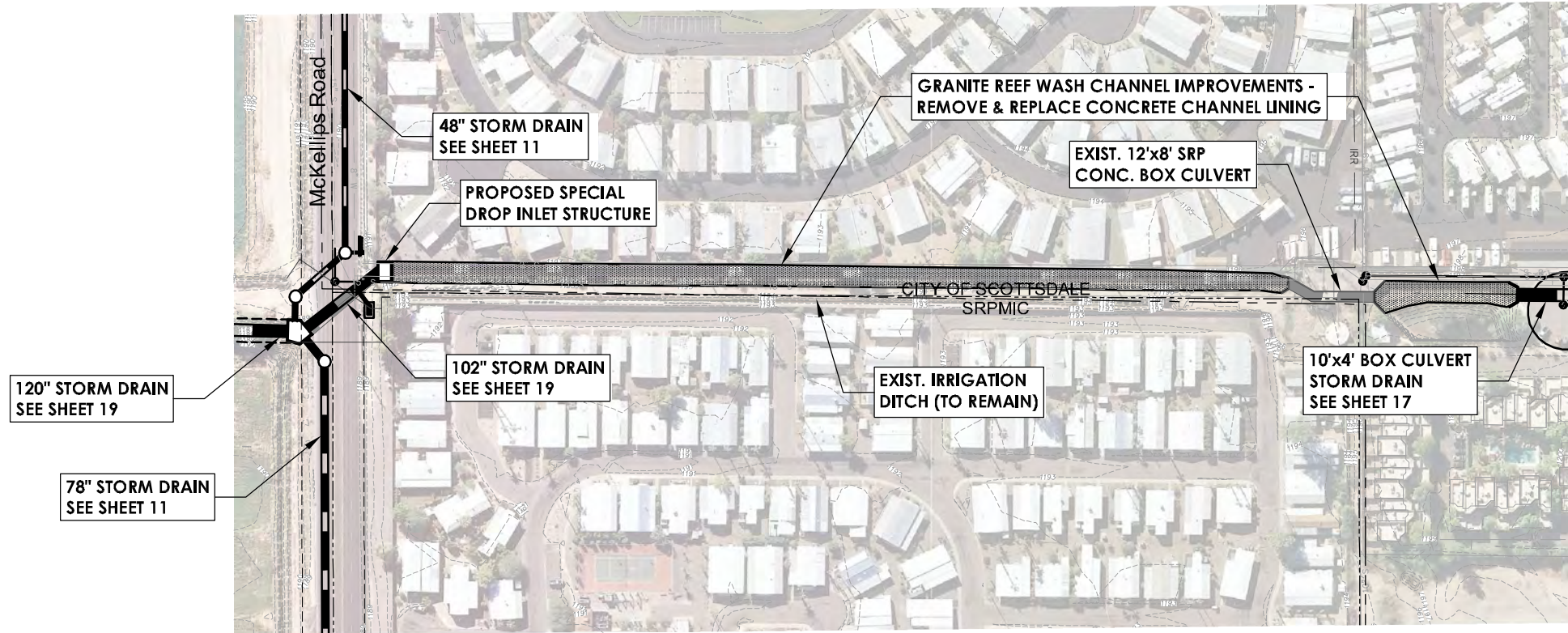
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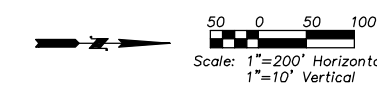
GRANITE REEF WATERSHED PHASE II DRAINAGE PLANNING AND STORM DRAIN DESIGN



PROPOSED IMPROVEMENTS: 84TH PLACE/GRANITE REEF ROAD STORM DRAIN		
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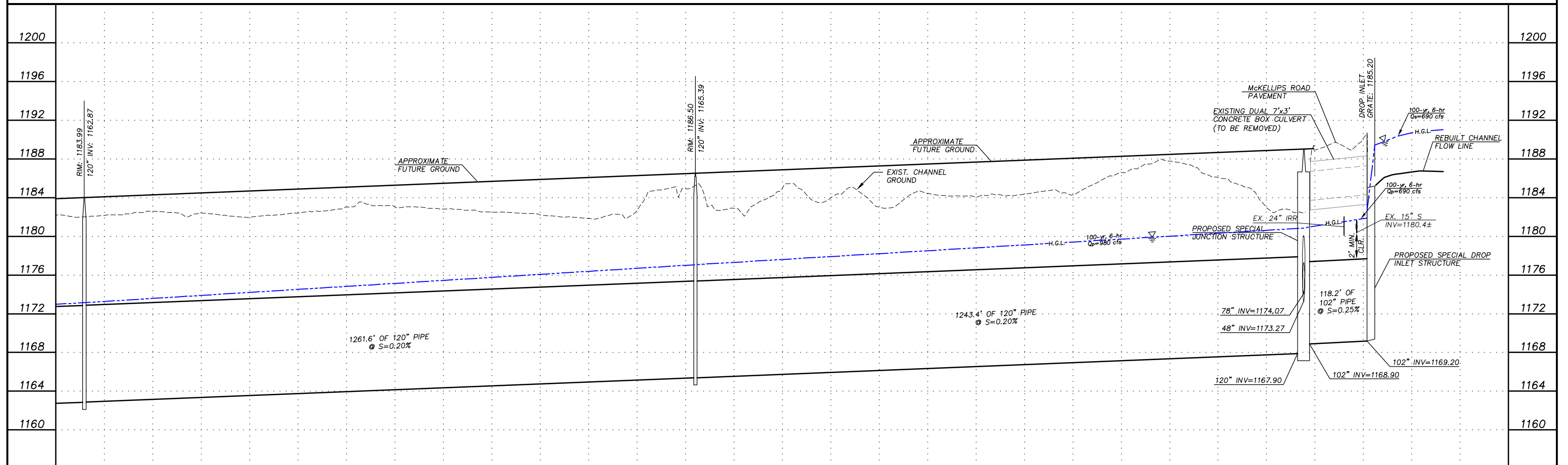
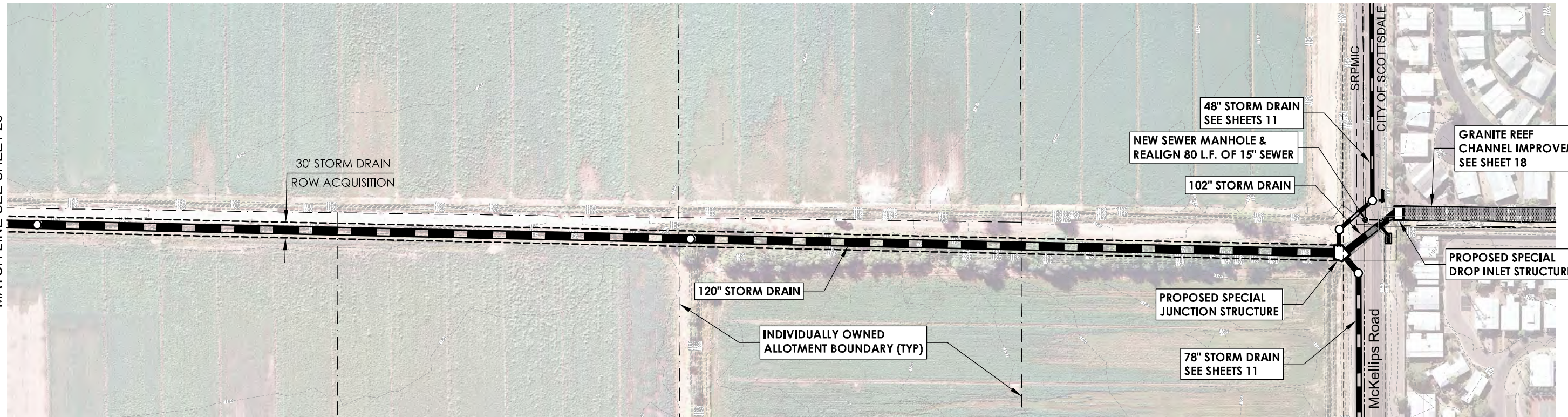


**GRANITE REEF WATERSHED PHASE II
DRAINAGE PLANNING AND STORM DRAIN DESIGN**



PROPOSED IMPROVEMENTS: GRANITE REEF WASH CHANNEL IMPROVEMENTS		
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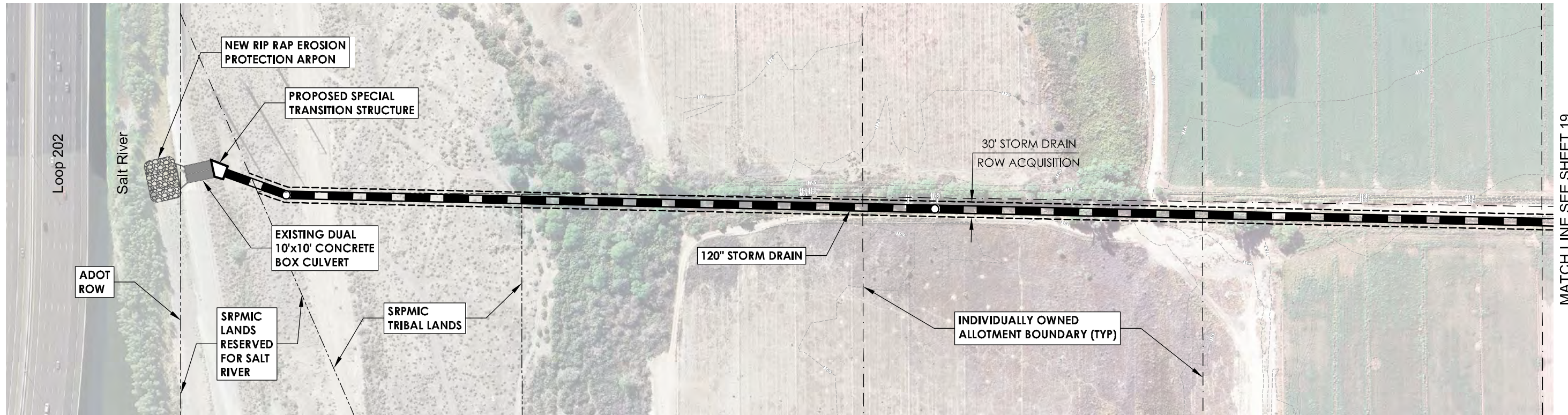
MATCH LINE SEE SHEET 20



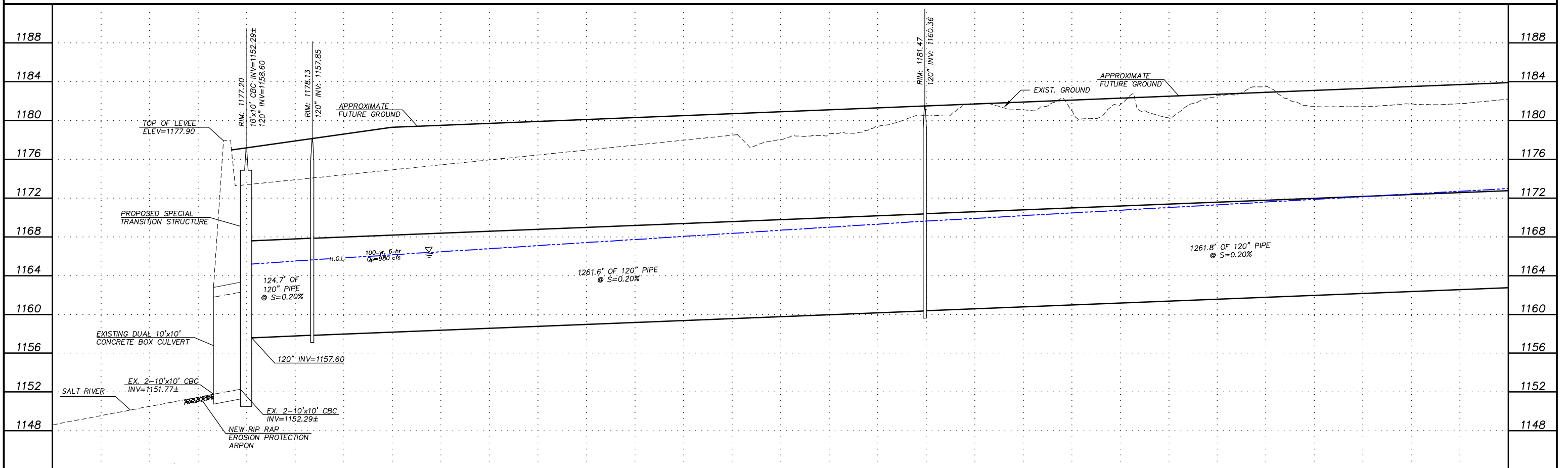
**GRANITE REEF WATERSHED PHASE II
DRAINAGE PLANNING AND STORM DRAIN DESIGN**



PROPOSED IMPROVEMENTS: SRPMIC SECTION 12 STORM DRAIN		
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PROPOSED IMPROVEMENTS: SRPMIC SECTION 12 STORM DRAIN		
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