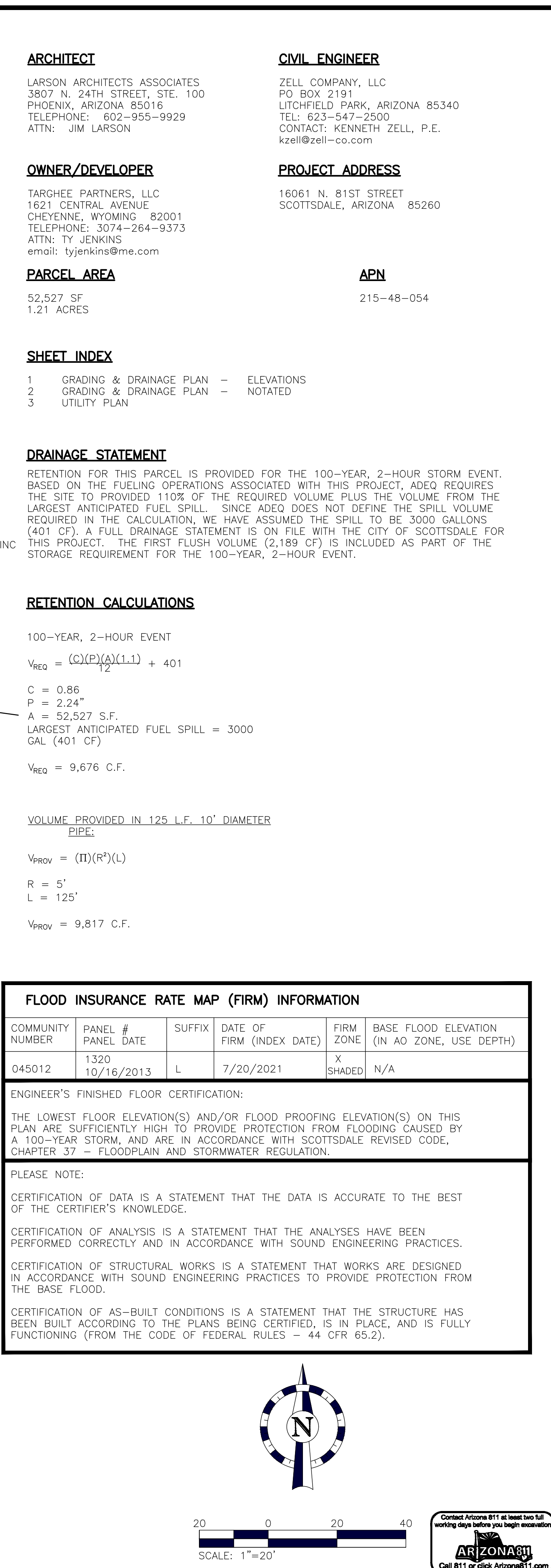




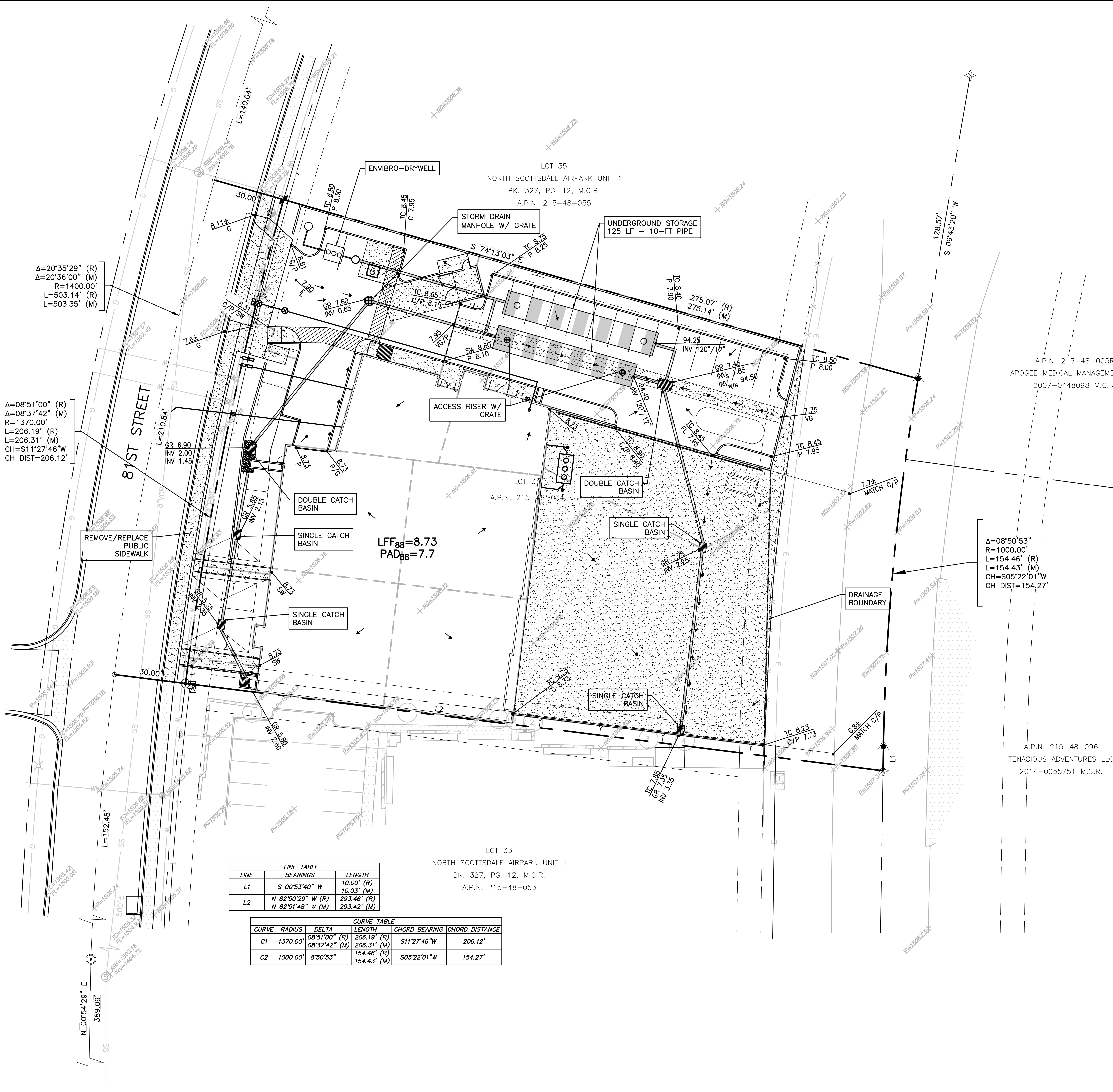
TITLE DESIGN REVIEW – CIVIL PLAN GRADING & DRAINAGE PLAN ELEVATIONS		SITE ADDRESS 16061 N. 81ST STREET, SCOTTSDALE, AZ	
SCALE: 1:20 JOB NO.: 24-013		DATE OCT 2024	
DRAWN BY RR		LOCATION SCOTTSDALE, ARIZONA 85260	
DESIGNED BY KZ		TY JENKINS HANGAR	
REVIEWED BY KZ		PROJECT	

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24449
 KENNETH W. ZELL
 LICENSED PROFESSIONAL ENGINEER
 No. 040790
 EXPIRES 12/31/2025
 STATE OF ARIZONA



PO Box 9191
 Scottsdale, Arizona 85340
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LINE TABLE		
LINE	BEARINGS	LENGTH
L1	S 00°53'40" W	10.00' (R) 10.03' (M)
L2	N 82°50'29" W (R) N 82°51'48" W (M)	293.46' (R) 293.42' (M)

CURVE TABLE					
CURVE	RADIUS	DELTA	LENGTH	CHORD BEARING	CHORD DISTANCE
C1	1370.00'	08°51'00" (R) 08°37'42" (M)	206.19' (R) 206.31' (M)	S11°27'46" W	206.12'
C2	1000.00'	8°50'53"	154.46' (R) 154.43' (M)	S05°22'01" W	154.27'

ARCHITECT

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email: tyjenkins@me.com

PROJECT ADDRESS

16061 N. 81ST STREET
SCOTTSDALE, ARIZONA 85260

PARCEL AREA

52,527 SF
1.21 ACRES

APN

215-48-054

DRAINAGE STATEMENT

RETENTION FOR THIS PARCEL IS PROVIDED FOR THE 100-YEAR, 2-HOUR STORM EVENT. BASED ON THE FUELING OPERATIONS ASSOCIATED WITH THIS PROJECT, ADEQ REQUIRES THE SITE TO PROVIDE 110% OF THE REQUIRED VOLUME PLUS THE VOLUME FROM THE LARGEST ANTICIPATED FUEL SPILL. SINCE ADEQ DOES NOT DEFINE THE SPILL VOLUME REQUIRED IN THE CALCULATION, WE HAVE ASSUMED THE SPILL TO BE 3000 GALLONS (401 CF). A FULL DRAINAGE STATEMENT IS ON FILE WITH THE CITY OF SCOTTSDALE FOR THIS PROJECT. THE FIRST FLUSH VOLUME (2,189 CF) IS INCLUDED AS PART OF THE STORAGE REQUIREMENT FOR THE 100-YEAR, 2-HOUR EVENT.

RETENTION CALCULATIONS

100-YEAR, 2-HOUR EVENT

$$V_{REQ} = \frac{(C)(P)(A)(1.1)}{12} + 401$$

C = 0.86

P = 2.24"

A = 52,527 S.F.

LARGEST ANTICIPATED FUEL SPILL = 3000 GAL (401 CF)

$$V_{REQ} = 9,676 \text{ C.F.}$$

VOLUME PROVIDED IN 125 L.F. 10' DIAMETER PIPE:

$$V_{PROV} = (\Pi)(R^2)(L)$$

R = 5'

L = 125'

$$V_{PROV} = 9,817 \text{ C.F.}$$

FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

COMMUNITY NUMBER	PANEL # PANEL DATE	SUFFIX	DATE OF FIRM (INDEX DATE)	FIRM ZONE	BASE FLOOD ELEVATION (IN AO ZONE, USE DEPTH)
045012	1320 10/16/2013	L	7/20/2021	X SHADED	N/A

ENGINEER'S FINISHED FLOOR CERTIFICATION:

THE LOWEST FLOOR ELEVATION(S) AND/OR FLOOD PROOFING ELEVATION(S) ON THIS PLAN ARE SUFFICIENTLY HIGH TO PROVIDE PROTECTION FROM FLOODING CAUSED BY A 100-YEAR STORM, AND ARE IN ACCORDANCE WITH SCOTTSDALE REVISED CODE, CHAPTER 37 - FLOODPLAIN AND STORMWATER REGULATION.

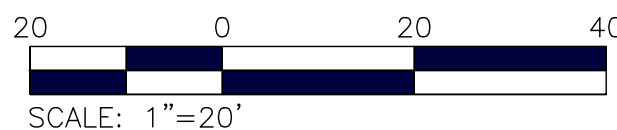
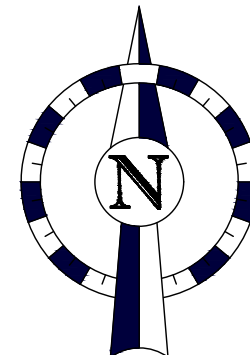
PLEASE NOTE:

CERTIFICATION OF DATA IS A STATEMENT THAT THE DATA IS ACCURATE TO THE BEST OF THE CERTIFIER'S KNOWLEDGE.

CERTIFICATION OF ANALYSIS IS A STATEMENT THAT THE ANALYSES HAVE BEEN PERFORMED CORRECTLY AND IN ACCORDANCE WITH SOUND ENGINEERING PRACTICES.

CERTIFICATION OF STRUCTURAL WORKS IS A STATEMENT THAT WORKS ARE DESIGNED IN ACCORDANCE WITH SOUND ENGINEERING PRACTICES TO PROVIDE PROTECTION FROM THE BASE FLOOD.

CERTIFICATION OF AS-BUILT CONDITIONS IS A STATEMENT THAT THE STRUCTURE HAS BEEN BUILT ACCORDING TO THE PLANS BEING CERTIFIED, IS IN PLACE, AND IS FULLY FUNCTIONING (FROM THE CODE OF FEDERAL RULES - 44 CFR 65.2).



BY		DESCRIPTION	
REV	DATE		
PROJECT	TY JENKINS HANGAR	LOCATION	SCOTTSDALE, ARIZONA 85260
DRAWN BY	RR	DESIGNED BY	KZ
REVIEWED BY	KZ	DATE	OCT 2024
TITLE	DESIGN REVIEW - CIVIL PLAN GRADING & DRAINAGE PLAN NOTATED	SITE ADDRESS	16061 N. 81ST STREET, SCOTTSDALE, AZ
SCALE:	1:20	JOB NO.:	24-013
SHEET	2	OF	3

