C = 0.9P = 2.16"

A = 156,910 S.F.

 $V_{REQ} = 25,419$ C.F.

VOLUME PROVIDED BY ORIGINAL PLANS IN 4 BASINS

BASIN A - 7,803 C.F. BASIN B - 2,964 C.F. BASIN C - 8,040 C.F.

BASIN D - 11,688 C.F.

TOTAL = 30,495 C.F.

DRAINAGE STATEMENT

THIS SITE WAS ORIGINALLY DEVELOPED IN 2004 AS A SPEC WAREHOUSE PROJECT. THE GRADING PLAN WAS PREPARED BY ATHERTON ENGINEERING, INC. (JOB NO. 00-52). THE ORIGINAL GRADING PLAN ANTICIPATED AN EXPANSION OF THE WAREHOUSE BUILDING AND THE ORIGINAL RETENTION CALCULATIONS TOOK THE ADDITIONAL HARDSCAPE AREA INTO ACCOUNT. THE SITE ALSO WAS DESIGNED TO RETAIN THE ADJACENT HALF STREET RUNOFF FROM THE THREE SURROUNDING ROADWAYS. THE ORIGINAL RETENTION CALCULATIONS USED A PRECIPITATION VALUE OF 3.0" FOR THE 100-YEAR, 2-HOUR EVENT. BASED ON CURRENT WEATHER DATA FROM NOAA, THE 100-YEAR, 2-HOUR PRECIPITATION VALUE HAS BEEN REDUCED TO 2.16". BASED ON THE GROSS AREA OF THE SITE AND USING A "C" FACTOR OF 0.90, THE REQUIRED RETENTION VOLUME WAS CALCULATED AS 25,419 C.F. PER ATHERTON ENGINEERING'S PLAN, THE STORMWATER WAS ROUTED TO FOUR (4) SURFACE BASINS. THESE BASINS HAD A VOLUME CAPACITY OF 30,495 C.F. THEREFORE, NO ADDITIONAL RETENTION FACILITIES ARE REQUIRED, OR MODIFICATIONS TO THE BASINS ARE NECESSARY. THE PROPOSED ADDITIONS DO NOT ALTER ANY OF THE EXISTING SURFACE

LEGEND

NOTE: ALL SYMBOLS AND ABBREVIATIONS MAY NOT APPEAR ON EACH SHEET.

	EXISTING STORM DRAIN	`	LIGHT POLE
	NEW STORM DRAIN	• XXXX	PROPOSED ELEVA
	CENTERLINE	-	POWER POLE
	PROPERTY LINE	©	SET BRASS CAP
—— XX ——	EXISTING LINE		SET MONUMENT
XX OR XX	EXISTING MANHOLES, VAULTS AND BOXES	0	SET REBAR
XXXX	EXISTING ELEVATION	-0	SIGN
		$\overline{\otimes}$	TAPPING SLEEVE
0_0	BACKFLOW PREVENTER	8	WATER VALVE
	CATCH BASIN		
	CLEANOUT		WATER METER

FIRE HYDRANT FLOW ARROW ROOF DRAIN ARROW FLOWLINE ARROW FOUND BRASS CAP FOUND MONUMENT

FOUND REBAR

NEW RIP-RAP EXISTING BRICK

/ATION

DRYWELL NEW CONCRETE

EXISTING CONCRETE

ABBREVIATIONS

BC	BACK OF CURB	Р
BW	BACK OF WALK	PC
CATV	CABLE TV	PT
С	CONCRETE	RD
CB	CATCH BASIN	ROW
CC	CANOPY CLEARANCE	SCO
CL	CENTERLINE	SD
CO	CURB OPENING	SL
DWV	DRAIN, WASTE AND VENT	SS
Ε	ELECTRIC	SW
ESMT	EASEMENT	Τ
FC	FACE OF CURB	TC
FG	FINISH GRADE	TF
FF	FINISH FLOOR	TW
FH	FIRE HYDRANT	TS
FL	FLOW LINE	UGE
FM	FORCE MAIN	VG

PAVEMENT

ROOF DRAIN

RIGHT OF WAY

STORM DRAIN STREET LIGHT

SIDEWALK

TELEPHONE TOP OF CURB

TOP OF WALL

WATER

TRAFFIC SIGNAL

VALLEY GUTTER

WLE WATER LINE EASEMENT

SEWER CLEANOUT

SANITARY SEWER

TOP OF FOOTING

UNDERGROUND ELEC

POINT OF CURVE

POINT OF TANGENCY

FIBER OPTICS FW FACE OF WALK GUTTER GB GR GRADE BREAK GRATE

INVERT INV IRR IRRIG. CONTROL VALVE MONUMENT LINE NATURAL GRADE OVERHEAD ELECTRIC

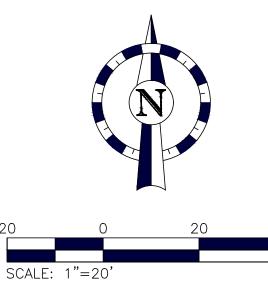
OWNER/DEVELOPER

ROBERT BROWN ARCHITECTS 88 S. SAN MARCOS PLACE CHANDLER, AZ 85225 TELEPHONE: 480-377-2222

ZELL COMPANY, L.L.C. 3400 N DYSART ROAD, #130 AVONDALE, ARIZONA 85392 TELEPHONE: 623-547-2500 ATTN: KELLY FURGUSON ATTN: KEN ZELL, P.E. E-MAIL: kzell@zell-co.com

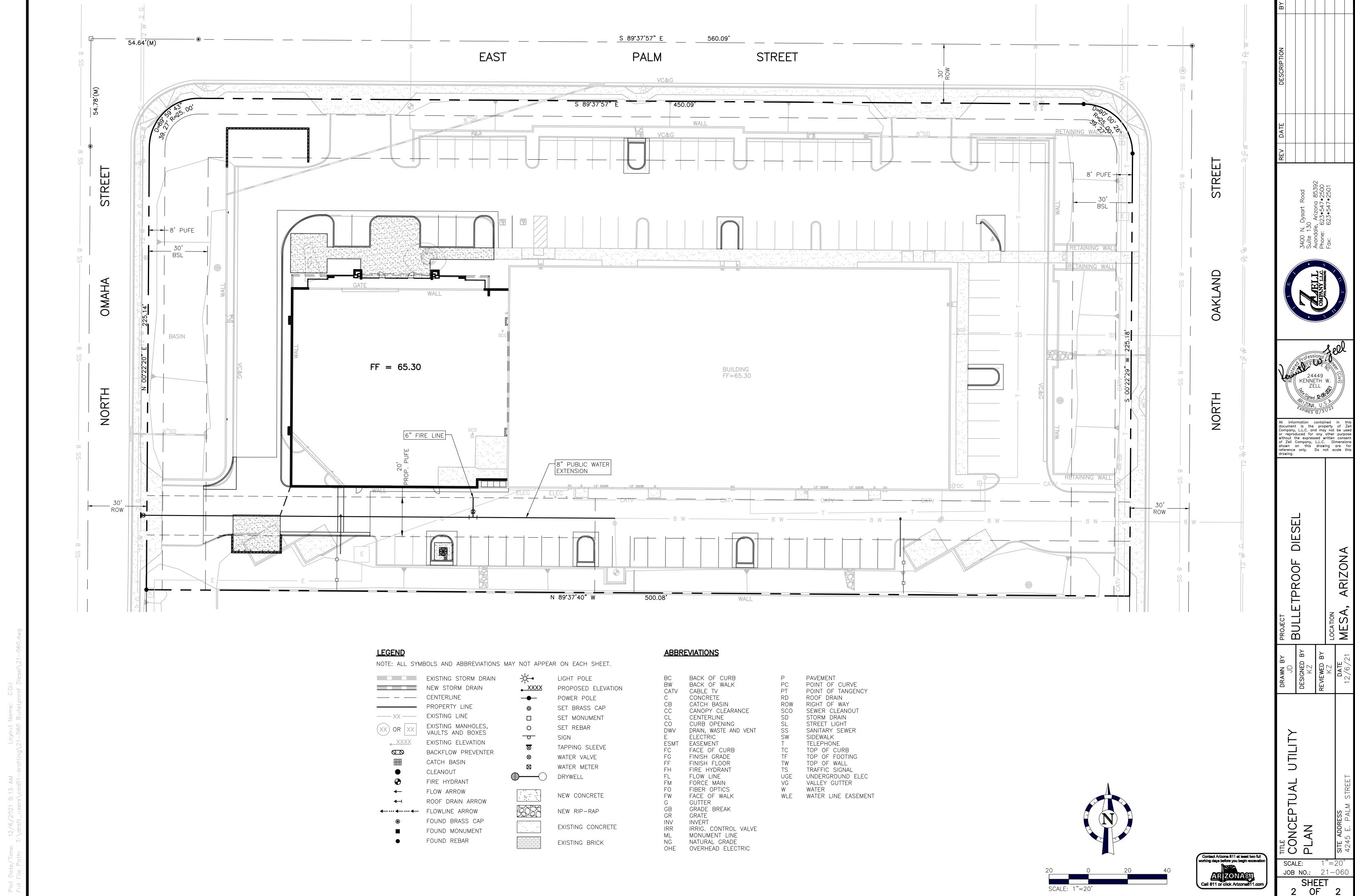
CIVIL ENGINEER

PARCEL AREA	DISTURBED AREA	<u>APN</u>
124,855 SF 2.87 ACRES	156,910 S.F. SF 3.60 ACRES	141-25-150





DIE 9F BUL ADIN AN GR, PLA AL GE \overline{C} SCALE: **JOB NO.:** 21-060 SHEET OF



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