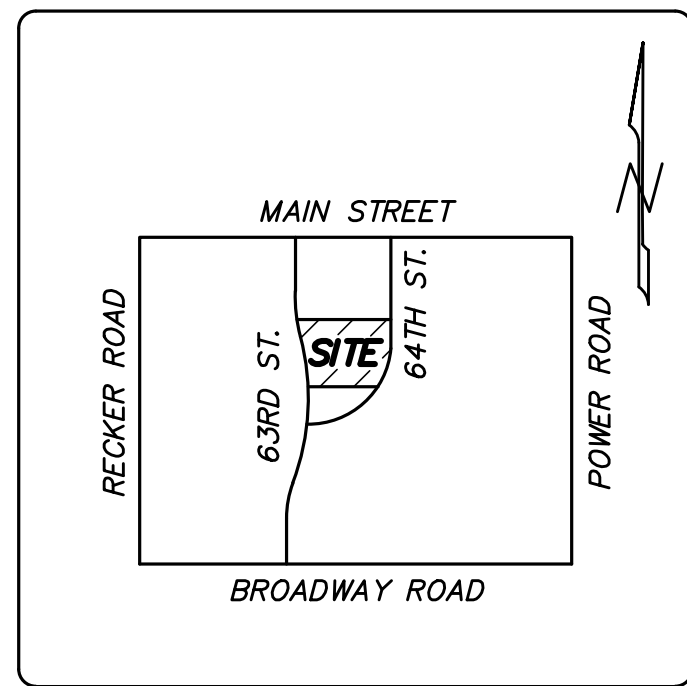




VICINITY MAP
NOT TO SCALE

EXISTING LEGEND

⊙	FOUND MONUMENT AS NOTED	G	GAS	T	TELEPHONE PEDASTAL
•	PROPERTY CORNER - 1/2" REBAR UNLESS NOTED	E	ELEC	⊙	CABLE PEDASTAL
APN	ASSESSOR PARCEL NUMBER	W	WATER	⊠	CONCRETE
MCR	MARICOPA COUNTY RECORDS	S	SEWER	⊠	ELECTRIC METER
FND	FOUND			⊙	SEWER MANHOLE
RBR	REBAR			⊠	STREET LIGHT
R/W	RIGHT OF WAY				
COP	CITY OF PHOENIX				
BOS	BACK OF SIDEWALK				
BOC	BACK OF CURB				
LOG	LIP OF GUTTER				
---	PROPERTY LINE				
---	MONUMENT LINE				
---	RIGHT OF WAY				
---	BLOCK WALL				
---	ROLL CURB				
---	CHAIN LINK FENCE				
---	BLOCK WALL				
EM	ELEC. METER				
OHE	OVERHEAD ELECTRIC				
CABL	CABLE TV BLUESTAKE				
S	SEWER BLUESTAKE				
T	TELEPHONE BLUESTAKE				
FH	FIRE HYDRANT				
O	ELECTRIC POLE				
⊠	EXISTING CONCRETE				
⊙	SEWER MANHOLE				
⊠	WATER METER				

PROPOSED LEGEND

⊠	CONCRETE
19.33C	PROPOSED SPOT GRADE
⊠	CROSS SECTION
---	GRADE BREAK
85.20	CONTOUR
→	DRAINAGE FLOW
P	PAVEMENT
FG	FINISH GRADE
TC	TOP OF CURB
TW	TOP OF WALL
IE	INVERT
S/W	SIDEWALK
L.T.C.	LOW TOP OF CURB
H.T.C.	HIGH TOP OF CURB
VCP	VERTIFIED CLAY PIPE
ACP	ASBESTOS CLAY PIPE
C.I.P.	CAST IN PLACE
BC	BACK OF CURB
E.S.O.	EXTREME STORM OUTFALL
→	DRAINAGE FLOW DIRECTION
APN	ASSESSOR PARCEL NUMBER

BENCHMARK

THE BENCHMARK USED FOR THIS SURVEY IS THE BRASS TAG T.C. N.E. CORNER OF RECKER ROAD & MAIN STREET, HAVING AN ELEVATION OF 1381.85, NAVD 88 DATUM, PER THE CITY OF MESA BENCHMARK LIST.

FEMA CLASSIFICATION

THE CURRENT FEMA FLOOD INSURANCE RATE MAP (FIRM) FOR THIS AREA, MAP NUMBER 04013C 2290M (EFFECTIVE REVISED DATE NOVEMBER 11, 2015), DESIGNATES THE PROPERTY WITHIN FLOOD HAZARD ZONE X. ZONE X IS DEFINED AS 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.

RETENTION CALCULATIONS

VOL. REQ. (100-YR, 2-HR STORM EVENT) = $C \cdot A$
C=WEIGHTED, I=2.15 FT, A=DRAINAGE AREA

OFFSITE ROADWAY - NO RETENTION

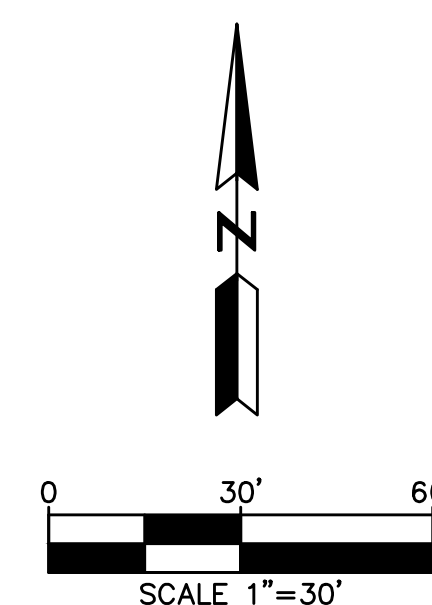
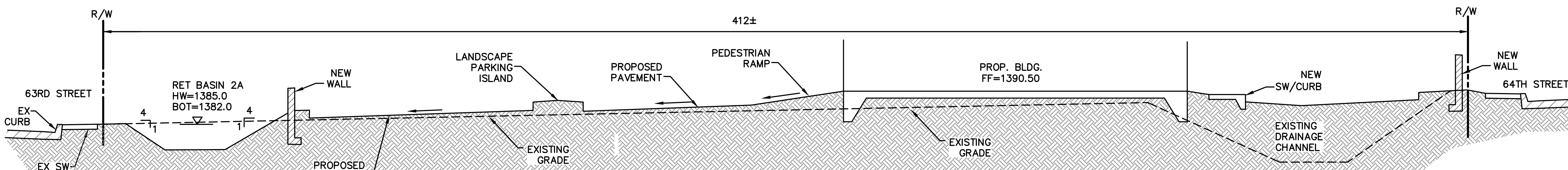
ONSITE NORTH PARKING AND ONSITE BUILDINGS - BASIN 1
 $C=0.90$, $A=52,350$ SF
VOL REQ = $0.90 \cdot 2.15/12 \cdot 52,350 = 8,441$ CF

VOL PROVIDED = 9,110 CF

REMAINING DEVELOPMENT - BASIN 2
 $C=0.90$, $A=129,820$ SF
VOL REQ = $0.94 \cdot 2.15/12 \cdot 129,820 = 20,933$ CF

VOL PROVIDED = BASIN 2A + BASIN 2B
VOL PROVIDED = 7,395 CF + 13,615 CF = 21,010 CF

1 TYPICAL SECTION



CALL TWO WORKING
DAYS BEFORE YOU DO
602-263-1100
1-800-STAKE IT
(OUTSIDE MARICOPA COUNTY)

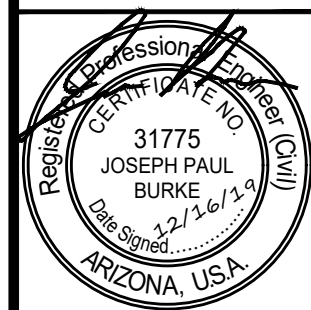
REVISION

CONCEPT GRADING AND DRAINAGE

LMAD MESA

APN: 141-57-017C, 63RD STREET

MESA, ARIZONA



BURKE ENGINEERING GROUP

27107 N. GIDKUP TRAIL
PHOENIX, ARIZONA 85085

PHONE: (602) 910-1185

B.E.G.

SCALE (H): 1"=20'
SCALE (V): NONE
DESIGNED BY: JB
CHECKED BY:

DATE: 10/19

PROJECT NO. TAM107

DRAWING NAME C&D

1 OF 1