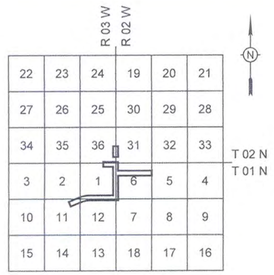
ROOSEVELT STREET IMPROVEMENT DISTRICT

FOR

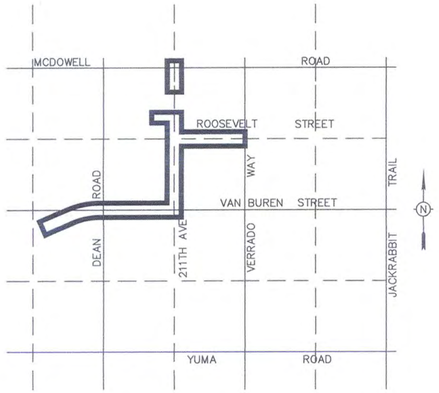
CITY OF BUCKEYE

PORTIONS OF SECTION 6, TOWNSHIP 1 NORTH RANGE 2 WEST & PORTIONS OF SECTION 1, 11 & 12, TOWNSHIP 1 NORTH RANGE 3 WEST AND PORTIONS OF SECTION 36, TOWNSHIP 2 NORTH RANGE 3 WEST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.



VICINITY MAP

NTS

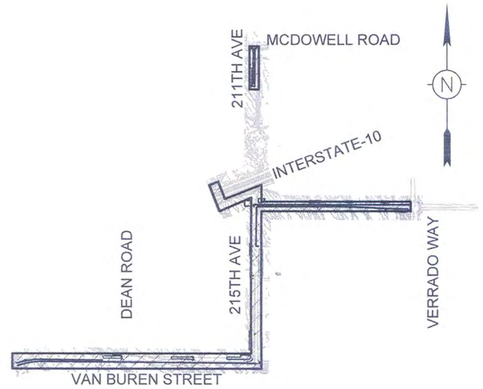


LOCATION MAP

NTS

FEMA FLOOD ZONE INFORMATION

COMMUNITY NUMBER	PANEL # PANEL DATE	SUFFIX	DATE OF FIRM (INDEX DATE)	FIRM ZONE	BASE FLOOD ELEV. (IN AO ZONE, USE DEPTH)
040039	2110	L	OCT 16, 2013	A	N/A
040039	2110	L	OCT 16, 2013	X	N/A



PROJECT AREA

NTS

GENERAL PERMITTING NOTES

1. ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF BUCKEYE DESIGN STANDARDS. IF THERE IS A CONFLICT, THE CITY OF BUCKEYE STANDARDS WILL GOVERN.
2. THE APPROVAL OF THE PLANS IS VALID FOR ONE (1) YEAR FROM THE DATE OF THE CITY ENGINEER'S SIGNATURE. IF AN ENCROACHMENT PERMIT FOR THE CONSTRUCTION HAS NOT BEEN ISSUED WITHIN ONE (1) YEAR, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR REAPPROVAL.
3. A CITY OF BUCKEYE INSPECTOR WILL INSPECT ALL WORKS WITHIN THE CITY OF BUCKEYE RIGHTS-OF-WAY AND IN EASEMENTS. NOTIFY THE CITY 24 HOURS PRIOR TO THE INSPECTION BY CALLING (623) 349-6248.
4. CITY PERMITS ARE REQUIRED FOR ALL WORK IN PUBLIC RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. A CITY PERMIT WILL BE ISSUED BY THE CITY ONLY AFTER ALL FEES HAVE BEEN PAID AND THE PERMIT HAS AN APPROVED MARICOPA COUNTY DUST PERMIT AND AN APPROVED STORM WATER POLLUTION PREVENTION PLAN ATTACHED. THE SWPPP SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
5. COPIES OF ALL PERMITS AND MOST RECENT APPROVED PLANS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS AND PLANS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL PROPER PERMIT DOCUMENTATION AND/OR PLANS ARE OBTAINED. ALL OF THESE REQUIREMENTS APPLY TO IMPROVEMENT PLANS.

UTILITY NO CONFLICT CERTIFICATION

UTILITY	UTILITY COMPANY	NAME OF COMPANY REPRESENTATIVE	DATE SUBMITTED
WATER	CITY OF BUCKEYE	CHRIS WILLIAMS	12/11/17
SEWER			
ELECTRIC	APS	MIKE POLETE	12/11/17
IRRIGATION	N/A	N/A	N/A
COMMUN.	COX COMMUNICATIONS	DUANE MITRY	12/11/17
COMMUN.	COX COMMUN. FIBER	DUANE MITRY	12/11/17
NATURAL GAS	SOUTHWEST GAS	VALERIE GALLARDO-WELLER	12/11/17
TELEPHONE	CENTURYLINK	MICHAEL CARDWELL	12/11/17
COMMUN.	SPRINT	COLIN SWORD	12/11/17
COMMUN.	AT & T	JOE FORKERT	12/11/17
WATER	AZ WATER	JOE WHELAN	12/11/17
COMMUN.	MCI	DEAN BOYERS	12/11/17

ENGINEER'S CERTIFICATION

I, BEING THE PERSON RESPONSIBLE FOR DESIGNING THE FACILITIES NECESSARY TO SERVE THIS DEVELOPMENT, HEREBY CERTIFY THAT ALL OF THE UTILITY COMPANIES LISTED ABOVE HAVE REVIEWED THIS PROJECT PROPOSAL AND ALL CONFLICTS HAVE BEEN RESOLVED AT THIS POINT. 'NO CONFLICT' FORMS HAVE BEEN OBTAINED FROM EACH UTILITY COMPANY.

Registered Professional Engineer (Civil) CERTIFICATE NO. 23232 PETER H. HEMINGWAY Date Signed 12/11/2017 ARIZONA, U.S.A. EXPIRES 03/31/2018

FOR CONSTRUCTION

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "AS - BUILT" INFORMATION SHOWN HEREON WAS OBTAINED UNDER MY DIRECT SUPERVISION AND IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ARIZONA REGISTERED LAND SURVEYOR DATE

ARIZONA REGISTRATION NUMBER

FIRM TELEPHONE NUMBER

OWNER
CITY OF BUCKEYE
CONSTRUCTION & CONTRACTING DIVISION
530 E. MONROE AVENUE
BUCKEYE, AZ 85326
CONTACT: CHRIS WILLIAMS
PHONE:(623) 349-6000

ENGINEER
RITOCH-POWELL & ASSOCIATES
5727 N. 7TH STREET, SUITE 120
PHOENIX, AZ 85014
CONTACT: PETE HEMINGWAY, P.E.
PHONE:(602) 263-1177

BASIS OF BEARING

THE BASIS OF BEARINGS FOR THIS PROJECT IS N89°26'17"W FOR THE SOUTH LINE OF SOUTHEAST QUARTER OF SECTION 2, TOWNSHIP 1 NORTH, RANGE 3 WEST OF THE GILA AND SALT RIVER MERIDIAN AS SHOWN ON THAT RECORD OF SURVEY PLSS SUBDIVISION – MARICOPA COUNTY GEODETIC DENSIFICATION AND CADASTRAL SURVEY RECORD IN BOOK 638, PAGE 32 MARICOPA COUNTY RECORDS.

ALL BEARINGS ARE GROUND/GRID BEARINGS
ALL DISTANCES ARE GROUND DISTANCES (INTERNATIONAL FEET)
ALL COORDINATES ARE GROUND VALUES (INTERNATIONAL FFET)

COORDINATES ARE BASED ON NAD 83 ARIZONA STATE PLANE, CENTRAL ZONE AND HAVE BEEN DETERMINED BY USING A GRID TO GROUND SCALE FACTOR OF 1.00011078020116 AND SCALE ORIGIN VALUE OF NORTHING 0.0, EASTING 0.0

BENCHMARKS

BENCHMARK NO. 1 (PRIMARY)
3 INCH TOWN OF BUCKEYE BRASS CAP IN HAND HOLE AT THE EAST QUARTER CORNER OF SECTION 6, TOWNSHIP 1 NORTH, RANGE 2 WEST AND LOCATED IN CENTERLINE OF ROOSEVELT STREET 150 FEET WEST OF THE WEST EDGE OF PAVEMENT.
ELEVATION = 1074.49'

BENCHMARK NO. 2 (SECONDARY)
3 INCH ALUMINUM CAP FLUSH (AZTEC LS42014) AT THE SOUTH QUARTER CORNER OF SECTION 2, TOWNSHIP 1 NORTH, RANGE 3 WEST AND LOCATED ON THE NORTH SIDE (WALL) OF THE SUNDANCE PARCEL 18 SUBDIVISION AND APPROXIMATELY 16 FEET NORTHWEST OF THE NORTHWEST CORNER OF LOT 979.
ELEVATION = 1126.29'

BENCHMARK NO. 3 (SECONDARY)
3 INCH TOWN OF BUCKEYE BRASS CAP FLUSH AT THE SOUTH QUARTER CORNER OF SECTION 11, TOWNSHIP 1 NORTH, RANGE 3 WEST AND LOCATED IN THE CENTERLINE MEDIAN OF YUMA ROAD AND APPROXIMATELY 555 FEET EAST OF THE CENTERLINE INTERSECTION WITH 223RD LANE.
ELEVATION = 1063.11'

RECEIVED
JAN 17 2018
CITY OF BUCKEYE by: __
ENGINEERING

APPROVALS

DISCLAIMER:
THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS AND OMISSIONS.

5th Submittal

BY: 01-17-2018
CITY OF BUCKEYE – CITY ENGINEER DATE

BY: APPROVED BY LETTER DATE
FLOOD CONTROL DISTRICT MARICOPA COUNTY

MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT

APPROVED BY: MCESD #: WWR-17-00202 MCESD #:

SIGNATURE: 01-11-2018 DATE

SHEET INDEX

SHEET NO.	DRAWING NO.	DESCRIPTION
1	CV01	COVER SHEET
2	KM01	KEY MAP
3-5	IX01, GN01-GN02	GENERAL NOTES AND ABBREV. & LEGEND
6-7	TX01-TX02	TYPICAL SECTIONS
8-9	DT01-DT02	DETAIL SHEETS
10-13	GC01-GC04	GEOMETRIC CONTROL SHEETS ROADWAY
14-40	PV01-PV23	ROADWAY PLAN & PROFILE SHEETS
41-42	ID01-ID02	HORIZONTAL CONTROL SHEET
43-52	DR01-DR10	DRAINAGE PLAN & PROFILE SHEETS
53-65	DR11-DR23	BASIN PLAN AND SECTION SHEETS
66-67	GD01-GD02	GRADING PLAN SHEETS
68-76	WT01-WT09	WATER PLAN & PROFILE SHEETS
77-87	SS01-SS11	SEWER PLAN & PROFILE SHEETS
88-90	TS01-TS03	TRAFFIC SIGNAL NOTES & PLANS
91-99	TC01-TC19	TRAFFIC CONTROL PLANS
100-111	SM01-SM12	SIGNING AND MARKING PLANS ROADWAY
112-121	XS01-XS10	CROSS SECTIONS
122-125	EC01-EC04	EROSION CONTROL

THIS PLAN SCALED FOR 24"X36" BORDER

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

MANAGING ENGINEERING / SURVEYOR
PROJECT COORDINATOR
DESIGN LAYOUT | DRAFTED | CHECKED
FIELD SURVEY | DRAFTED | CHECKED
DRAWING SCALES

PLAN TYPE: FOR CONSTRUCTION

ENGINEER INFORMATION
RITOCH-POWELL & ASSOCIATES
5727 N 7TH ST.
SUITE NO. 120
PHOENIX, AZ 85014
602 263-1177

PROJECT: ROOSEVELT STREET IMPROVEMENT DISTRICT

COB PROJECT PLAN STICKER
ENG-16-00003
Roosevelt Street Improvement District
Improvement Plans
Sheets: 125
5R - FOR SIGNATURE

REVISIONS:
1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST OF VERRADO WAY REMOVED.
2
3

COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL: APPROVED JAN 17 2018 CITY OF BUCKEYE ENGINEERING
SUBMITTAL: 5th Submittal ~~3RD SUBMITTAL~~
AS-BUILT SEAL
DESIGN SEAL: Registered Professional Engineer (Civil) CERTIFICATE NO. 23232 PETER H. HEMINGWAY Date Signed 12/11/2017 ARIZONA, U.S.A. EXPIRES 03/31/2018

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-2017
PROJECT NUMBER 2014-071
SHEET NUMBER CV01 01 OF 125
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

FOR CONSTRUCTION

WATER NOTES

NO	DESC.	QTY	UNITS
1	12" CLASS 350 POLY-WRAPPED D.I.P. WATER MAIN WITH JOINT RESTRAINT PER MAG STD DET 303-1 & 303-2; WATER MAIN TRENCHING WITH TRACER WIRE PER COB STD DET 31380	5,355	LF
2	12" GATE VALVE; VALVE BOX AND COVER PER MAG STD DET 391-1 TYPE A WITH BLOCKING PER MAG STD DET 301	19	EA
3	12" CLASS 350 POLY-WRAPPED D.I.P. MECHANICAL JOINT FITTING WITH ELECTRONIC MARKER BALL. SEE PLAN FOR ANGLE & TYPE. THRUST BLOCKS PER MAG STD DET 380.	20	EA
4	REMOVE TAPPED CAP WITH CURB STOP AND FLUSHING PIPE AND CONNECT TO EXISTING 12" WATER MAIN STUB. CONTRACTOR TO VERIFY SIZE, MATERIAL, HORIZONTAL AND VERTICAL LOCATION PRIOR TO START OF CONSTRUCTION AND NOTIFY ENGINEER OF DISCREPANCIES.	2	EA
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 TYPE A WITH BLUE CARSONITE MARKER LABELED "WATER VALVE" WITHIN 2 FEET OF THE VALVE	9	EA
6	12" CLASS 350 POLY-WRAPPED D.I.P. WATER MAIN WITH JOINT RESTRAINT PER MAG STD DET 303-1 & 303-2 IN 36" CASING PER COB STD DET 31384 & MAG SPEC 602 INSTALLED BY JACK AND BORE. TRACER WIRE PER COB SPEC 3-1.210. REFER TO PLAN FOR ANTICIPATED BORE PIT LOCATIONS.	600	LF
7	12" CLASS 350 POLY-WRAPPED D.I.P. WATER MAIN WITH JOINT RESTRAINT PER MAG STD DET 303-1 & 303-2 IN 36" CASING PER COB STD DET 31384 & MAG SPEC 602; WATER MAIN TRENCHING WITH TRACER WIRE PER COB STD DET 31380	170	LF
8	REMOVE AND REPLACE FENCE	100	LF
10	FIRE HYDRANT PER MAG STD DET 360 AND COB STD DET 31410, 31412 & 31414 WITH PAVEMENT MARKER PER COB STD DET 31440	7	EA
11	FIRE HYDRANT PER MAG STD DET 360 AND COB STD DET 31410, 31412 & 31414 WITH CUT IN TEE AND GATE VALVE AND WITH PAVEMENT MARKER PER COB STD DET 31440	4	EA
12	8" CLASS 350 POLY-WRAPPED D.I.P. WATER MAIN WITH JOINT RESTRAINT PER MAG STD DET 303-1 & 303-2; WATER MAIN TRENCHING WITH TRACER WIRE PER COB STD DET 31380	344	LF
13	8" GATE VALVE; VALVE BOX AND COVER PER MAG STD DET 391-1 TYPE A WITH BLOCKING PER MAG STD DET 301	5	EA
14	8" D.I.P. TAPPED CAP WITH CORP STOP PER MAG STD DET 390 TYPE A	6	EA
15	8" GATE VALVE; VALVE BOX AND COVER PER MAG STD DET 391-1 TYPE A WITH CUT IN TEE	1	EA
16	2" WATER SERVICE PER COB STD DET 31330	1	EA
17	1.5" WATER SERVICE PER COB STD DET 31330	1	EA
18	12" D.I.P. TAPPED CAP WITH CORP STOP PER MAG STD DET 390 TYPE A	4	EA
19	8" CLASS 350 POLY-WRAPPED D.I.P. MECHANICAL JOINT FITTING WITH ELECTRONIC MARKER BALL. SEE PLAN FOR ANGLE & TYPE. THRUST BLOCKS PER MAG STD DET 380.	1	EA

REMOVAL NOTES

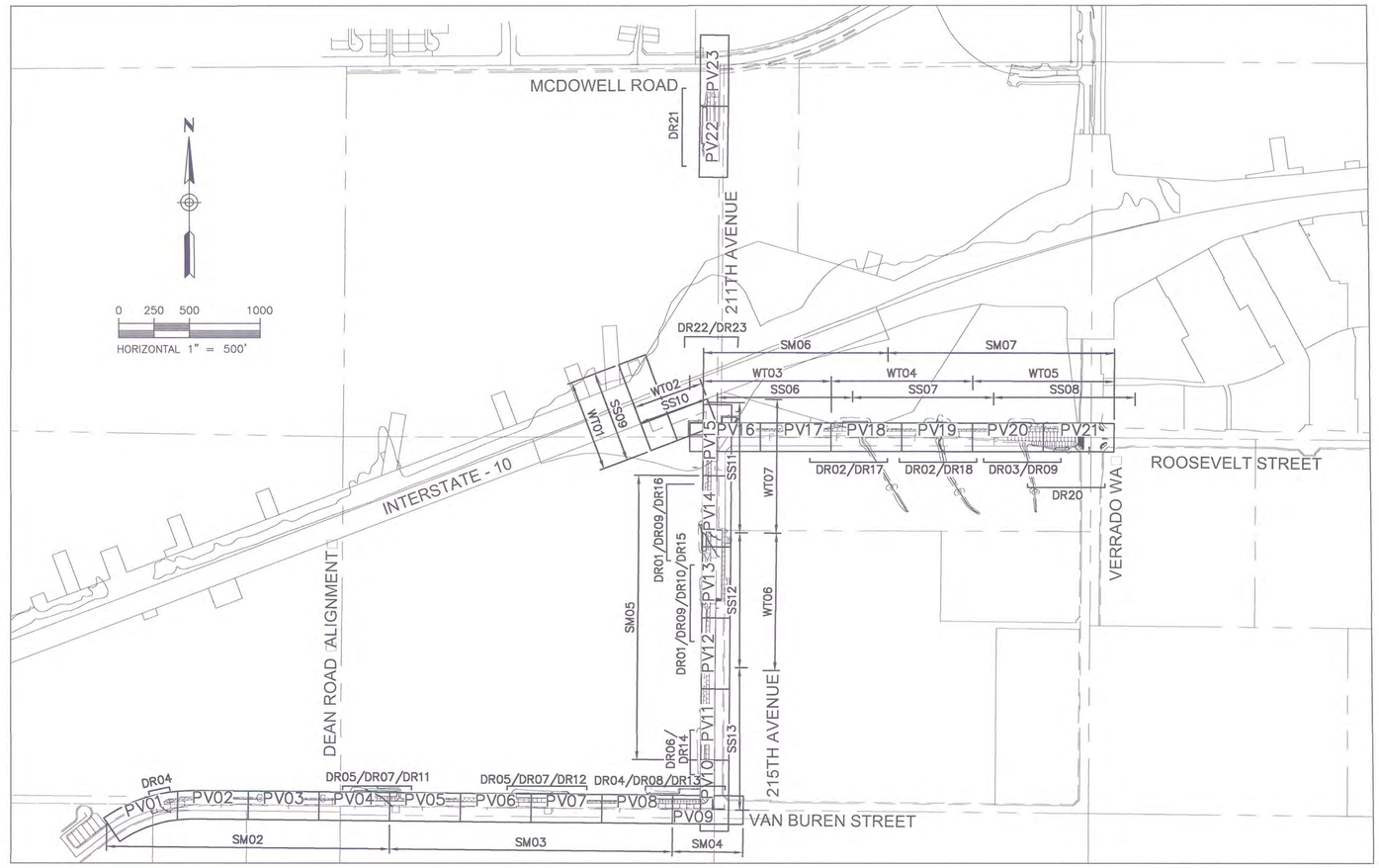
NO	DESC.	QTY	UNITS
A	REMOVE AC PAVEMENT (INCLUDES SUBGRADE/SUBBASE)	1,160	SY
B	REMOVE BARRICADE	212	LF
C	REMOVE RIP RAP	890	SF
D	REMOVE CONCRETE CURB	824	LF
E	REMOVE TEMPORARY CONCRETE BARRIER	9	EA
F	REMOVE RAMP	4	EA
G	REMOVE FENCE (RAILS & POSTS)	4,061	LF
H	REMOVE CONCRETE SLAB	61	SF
I	REMOVE HEADWALL	1	EA
S	SAWCUT 2" MINIMUM & MATCH EXISTING	2,331	LF

CONSTRUCTION NOTES

NO	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	37,278	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	37,278	SY
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	12,649	LF
4	ADJUST SANITARY SEWER MANHOLE TO FINISHED GRADE PER MAG STD DET 422	16	EA
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 TYPE A	33	EA
6	CURB & GUTTER PER MAG STD DET 220-1 TYPE A	5,723	LF
7	1' CURB TERMINATION PER DETAIL SHEET DT01	10	EA
8	SIDEWALK RAMP PER COB STD DET 63240	4	EA
9	GUARDRAIL PER ADOT STD DET 10.03/G4.1W; (INCLUDES END TREATMENTS); SEE DETAIL SHEET DT02	840	LF
10	SINGLE CURB PER MAG STD DET 222 TYPE A	60	LF
11	GRADING FOR DRAINAGE	23	LS
12	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 2	5,363	SY
13	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 2 (INCLUDES SUBGRADE/SUBBASE PREP)	5,363	SY
15	MEDIAN NOSE PER COB STD DET 63220	2	EA
16	INSTALL BARRICADE PER MAG STD DET 130 TYPE A; WITH OM4-1 OBJECT MARKERS.	227	LF
17	INSTALL CONCRETE CUTOFF WALL PER MAG STD DET 552. TOTAL DEPTH OF WALL (D); WIDTH OF WALL (W); AND LENGTH OF WALL (L); PER PLAN. INSTALL DEPTH GAUGE ON SOUTH SIDE OF VAN BUREN STREET	349	LF
18	SURVEY MARKER PER MAG STD DET 120; TYPE A	1	EA
19	REMOVE AND REPLACE FENCE IN KIND PER WHITE TANKS FRS NO. 4 REHIBILITATION PROJECT PHASE II BY WOOD / PATEL SHEET D4.7; FENCING DETAILS	0	LF
20	RIBBON CURB PER MAG STD DET 220-1 TYPE B	132	LF
21	ADJUST ELECTRICAL MANHOLE FRAME AND COVER TO FINISHED GRADE PER APS REQUIREMENTS / SPECIFICATIONS	1	EA
22	T-TOP PAVEMENT REPLACEMENT PER MAG STD DET 200 WITH 100% SLURRY BACKFILL AND ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	8	SY

DRAINAGE NOTES

NO.	DESC.	QTY	UNIT
1	SAFETY END SECTION WITH TYPE 3 CONNECTION PER DETAIL ON SHEET DT01	70	EA
2	30" CLASS V RGRCP PIPE PER MAG SPEC 601	1,401	LF
4	GRADING FOR DRAINAGE	22	LS
6	HEADWALL PER MAG STD DET 501-3 MODIFIED WITH HANDRAIL PER COB STD DET B-110 AND TRASH RACK PER COB STD DET B-508	2	EA
9	18" CLASS V RGRCP PIPE PER MAG SPEC 601	1,523	LF
10	GROUTED RIPRAP (D50: 6"); PER MAG SPEC SECTION 220 AND 703; THICKNESS 12"; WITH GEOSYNTHETIC FABRIC PER MAG SEC 220	374	SY
11	DUMPED RIPRAP (D50: 9"); PER MAG SPEC SECTION 220 AND 703; THICKNESS 18"; WITH GEOSYNTHETIC FABRIC PER MAG SEC 220	1,732	SY
12	PNEUMATICALLY PLACED MORTAR APRON PER DETAIL ON SHEET DT01	188	SY
13	CURB OPENING CATCH BASIN PER COB STD DET B510-A. 6' WING AND 6' WING	1	EA
14	CURB OPENING CATCH BASIN PER COB STD DET B510-A. 10' WING AND 3' WING	2	EA
15	CURB OPENING CATCH BASIN PER COB STD DET B510-A. 3' WING	1	EA
16	CURB OPENING CATCH BASIN PER COB STD DET B510-A. 10' WING AND 10' WING	1	EA
17	SCUPPER PER COB STD DET B-505A AND B-505B WITH HANDRAIL PER COB STD DET B-110. 17.5' CURB OPENING LENGTH	1	EA
18	SCUPPER PER COB STD DET B-505A AND B-505B WITH HANDRAIL PER COB STD DET B-110. 31' CURB OPENING LENGTH	1	EA
19	CONCRETE PIPE COLLAR PER MAG STD DET 505	8	EA
20	CURB OPENING CATCH BASIN PER COB STD DET B510-A. 6' WING AND 3' WING	1	EA
21	MAG STD DET 535 CATCH BASIN TYPE F	0	EA
22	PIPE PENETRATION PER DETAIL ON SHEET DR23	0	EA
23	18" CLASS V RGRCP PIPE; PIPE TRENCH PER DETAIL THIS SHEET	0	LF



SEWER NOTES

NO	DESC.	QTY	UNITS
1	INSTALL 8" VCP SEWER LINE; BEDDING PER COB STD DET 41300-1 & 41300-2	3,027	EA
2	INSTALL 12" VCP SEWER LINE; BEDDING PER COB STD DET 41300-1 & 41300-2	7,305	LF
3	INSTALL 6' DIAMETER PRECAST CONCRETE SEWER MANHOLE PER MAG STD DET 420; WITH CAST IN PLACE CONCTRETE BASE PER COB STD DET 41253 AND WITH 30" FRAME AND COVER PER COB STD DET 41260; SHOWN ON SHEET SS12	1	LF
4	INSTALL 5' DIAMETER PRECAST CONCRETE SEWER MANHOLE PER MAG STD DET 420; WITH CAST IN PLACE CONCTRETE BASE PER COB STD DET 41253 AND WITH 30" FRAME AND COVER PER COB STD DET 41260; WITH COATING REQUIREMENT PER COB STD DET 41100; SHOWN ON SHEET SS12	31	LF
5	REMOVE PLUG AND TIE INTO EXISTING SEWER MANHOLE. CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF STUB	2	LF
6	INSTALL SEWER INSIDE DROP CONNECTION PER COB STD DET 41255; SHOWN ON SHEET SS13	1	LF
7	INSTALL 48" STEEL CASING JACK AND BORE AS PER MAG SPEC 602.2 AND COB STD DET 41290	300	LF
10	INSTALL 12" VETRIFIED CLAY JACKING SEWER LINE	360	EA
11	TEMPORARY HORIZONTAL BORE PIT 16'(L) 38'	1	EA
12	TEMPORARY HORIZONTAL BORE PIT 12'(L) 25'	1	EA
14	FURNISH AND INSTALL TESTING CLEANOUT AS PER COB STD DET 41270; SHOWN ON SS12	32	EA
15	INSTALL OPEN TRENCH 48" STEEL CASING PER MAG SPEC 602.2 AND COB STD DET 41291	60	EA
16	CONTRACTOR TO RECONSTRUCT MANHOLE BASE TO ALLOW FLOW AS SHOWN IN PLAN VIEW	2	EA
17	CONNECT NEW 12-INCH TO EXISTING 12-INCH TESTING CLEANOUT; CONTRACTOR TO VERIFY	1	EA
18	INSTALL 6" VCP SEWER LINE BEDDING PER COB STD DET 41300-1 & 41300-2	150	LF

ESTIMATED EARTHWORK

VOLUMES LISTED BELOW WERE CALCULATED USING AVAILABLE TOPOGRAPHIC DATA AND EXISTING FIELD CONDITIONS. VOLUME INFORMATION DOES NOT REFLECT SHRINK/SWELL, CLEAR/GRUB, PRE-COMPACTION, LOSSES DUE TO OVER EXCAVATION, ETC. CONTRACTOR SHALL SATISFY HIMSELF AS TO ACTUAL FIELD CONDITIONS, AND ANTICIPATED CONDITIONS DURING THE TIME OF CONSTRUCTION, AND SHALL BASE THEIR QUANTITY TAKE OFF AND BID ACCORDINGLY.

CUT: 50,940 C.Y.
FILL: 22,737 C.Y.
NET (CUT): 28,203 C.Y.

PROJECT INFORMATION

DISTURBED AREA:	20.46 ACRES
EST'D R/W AREA:	18.81 ACRES
EST'D PUE AREA:	1.99 ACRES
EST'D DRAINAGE EASEMENT AREA:	10.20 ACRES

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
KEY MAP

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
Date Signed 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER	SHEET NUMBER
2014-071	KM01 02 OF 125

PLOT DATE: Dec 14, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\02-215035-KM01.dwg

ABBREVIATIONS

ACRES	AC
AGGREGATE BASE	AB
AHEAD	AHD
AIR RELEASE VALVE	ARV
ALUMINUM	AL
ANGLE POINT	AP
APPROXIMATE	APPROX
ARIZONA DEPARTMENT OF TRANSPORTATION	ADOT
ASPHALTIC CONCRETE	AC
ASSESSORS PARCEL NUMBER	APN
AVENUE	AVE
BACK OF CURB	B/C
BACK OF CURB RETURN	BCR
BACKFLOW PREVENTER	BFP
BEGIN	BEG
BLACK	BK
BOULEVARD	BLVD
BRASS CAP	BC
CALCULATED	C
CATCH BASIN	CB
CENTERLINE	C/L OR ℄
CITY OF BUCKEYE	COB
CITY OF SCOTTSDALE	COS
CONCRETE BOX CULVERT	CBC
CAST IN PLACE CONCRETE PIPE	CIP / C.I.P.
CONSTRUCTION	CONSTR
CORNER	COR
COUNTY	CO
DEGREES	°
DEGREE OF CURVE	D
DELTA	Δ
DEPARTMENT	DEPT
DETAIL	DET
DRAWING	DWG
DRAINAGE	DRAIN
DRIVE	DR
DRIVEWAY	D/W
DUCTILE IRON PIPE	DIP / D.I.P.
EACH	EA
EASEMENT	ESMT
EAST	E
EDGE OF PAVEMENT	EP
ELECTRIC JUNCTION BOX	EJB
ELECTRIC CABINET	CAB
ELECTRIC METER	EM
ELECTRIC STUB UP	ESU
ELECTRIC VAULT	EV
ELECTRICAL	ELEC
ELEVATION	ELEV
END CURB RETURN	ECR
EQUATION	EQUA
ESTIMATED	EST'D
EXISTING	EXIST
FACE OF CURB	F/C
FEDERAL	FED
FEET	FT OR '
FINISHED GRADE	FG
FIBER OPTICS	FO
FLOWLINE	FL
FOUND	FD
GREEN	GN
GUTTER	G
HANDHOLE	HH
HEADWALL	HDWL
HIGHWAY	HWY
HIGH WATER ELEVATION	HWE
HYDRAULIC GRADE LINE	HGL
INCH	IN OR "
INVERT	INV
IRRIGATION	IRR
JUNCTION	JCT
LANE	LN
LINEAR FEET	LF
LEFT	L / LT
LENGTH OF CURVE	L
MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION	MCDOT
MARICOPA COUNTY RECORDER	MCR
MARICOPA COUNTY HIGHWAY DEPARTMENT	MCHD
MARICOPA ASSOCIATION OF GOVERNMENTS	MAG
MARICOPA COUNTY RECORDER	MCR
MAXIMUM	MAX
MEASURED	(M)

MILE POST	MP
MILLIMETER	MM
MINIMUM	MIN
MINUTES	'
MISCELLANEOUS	MISC
MONUMENT	MON
NATIONAL GEODETIC VERTICAL DATUM	NGVD
NATURAL GROUND	NG
NORTH	N
NOT TO SCALE	NTS
NUMBER	NO
OFFSET	OFF
OUTSIDE DIAMETER	OD
PARCEL	PAR
PARKWAY	PKWY
PAVEMENT	PVMT
PEDESTRIAN	PED
PLACE	PL
POINT OF COMPOUND CURVE	PCC
POINT OF CURVATURE	PC
POINT OF INTERSECTION	PI
POINT OF REVERSE CURVE	PRC
POINT OF TANGENT	PT
POINT ON CURVE	POC
POINT ON TANGENT	POT
POINT ON SEMI-TANGENT	POST
PORTLAND CEMENT CONCRETE PAVEMENT	PCCP
PROPOSED	PROP
PUBLIC UTILITY EASEMENT	PUE
RADIUS	R
RAILROAD	RR
REBAR AND CAP	R&C
RECORD	(R)
REINFORCED CONCRETE PIPE	RCP
RUBBER GASKET REINFORCED CONCRETE PIPE	RGRCP
RIGHT	R / RT
RIGHT OF WAY	R/W
ROAD	RD
SCUPPER	SCPR
SECONDS	"
SECTION	SEC
SHEET	SHT
SIDEWALK	S/W
SIGN OR STREET SIGN	SGN
SOUTH	S
SOUTHWEST GAS	SWG
SPECIFICATION	SPEC
STORM DRAIN	SD
SQUARE	SQ
SQUARE FEET	SF
SQUARE YARD	SY
STANDARD	STD
STATE ROUTE	SR
STATION	STA
STREET	ST
SUBDIVISION	SUBD
TANGENT LENGTH	TL
TELEPHONE	T
TELEVISION	TV
TEMPORARY CONSTRUCTION ESMT	TCE
TEMPORARY	TEMP
TO BE VERIFIED	TBV
TOP OF BERM	TOB
TOP OF CURB	TC
TOP OF WALL	TW
TOWNSHIP	T
TRAFFIC INTERCHANGE	TI
TRANSFORMER	TSFM
TYPICAL	TYP
ULTIMATE OUTFALL ELEVATION	UOE
UNKNOWN	UNKN
ULTIMATE OUTFALL ELEVATION	UOE
VALLEY GUTTER	VG
VEHICULAR NON-ACCESS EASEMENT	VNA
VOLUME	VOL
WATER	WTR / WAT
WATER METER	WM
WELL WATER LINE	WELL
WATER VAULT/MANHOLE	WMH
WEST	W
WITH	W/
100 YR WATER SURFACE ELEVATION (OFFSITE FLOWS)	WSE 100

SYMBOL LEGEND

HANDHOLE
BRASS CAP
ALUMINUM CAP
CURB & GUTTER VERTICAL TYPE
CURB TRANSITION
CONCRETE DRIVEWAY OR DRIVEWAY ENTRANCE
SIDEWALK RAMP
EXISTING IRRIGATION STRUCTURE
EXISTING WATER/GAS VALVE
NEW WATER/GAS VALVE
EXISTING WATER METER
NEW WATER METER
EXISTING FIRE HYDRANT
NEW OR RELOCATED FIRE HYDRANT
EXISTING UTILITY POLE
EXISTING STREET LIGHT
MAIL BOX
DOWN GUY ANCHOR
NEW STREET LIGHT
NEW PEDESTRIAN LIGHT
TREE
PALM TREE
TRAFFIC SIGNAL
BFP — BACKFLOW ASSEMBLY
ARV — AIR RELEASE VALVE
TELEPHONE MANHOLE
TELEPHONE PEDESTAL
PLUG/ CAP
SEWER MANHOLE
WATER VAULT/MANHOLE
IRRIGATION CONTROL VALVE
IRRIGATION MANHOLE
DETECTABLE WARNING
STAMPED ASPHALT PAVEMENT
REMOVALS
NEW AC PAVEMENT
NEW CONCRETE RAMP D/W VG
NEW SIDEWALK
BRICK PAVERS
CATCH BASIN ACCESS
GMKR — GASLINE MARKER
STREET LIGHT POLE
FIRE DEPARTMENT CONNECTION
ELEC — ELECTRIC PULLBOX
GAS MANHOLE
NEW TRAFFIC SIGN
EXIST TRAFFIC SIGN
RIPRAP
CUT OFF WALL
SAFETY END SECTION

ELECTRICAL PULLBOX
BOLLARD
LANDSCAPE LIGHT
ELECTRIC PULLBOX
WP — WATER PUMP
CATCH BASIN
SCUPPER/SPILLWAY
MONUMENT / SECTION LINE
EXISTING R/W LINE
NEW R/W LINE
PROPERTY LINE
CROWN LINE
EASEMENT LINE
SECTION LINE
ROADWAY CENTERLINE
EXISTING FENCE
OHE — EXISTING OVERHEAD ELECTRIC
UGE — EXISTING UNDERGROUND ELECTRIC
EXISTING UNDERGROUND TELEPHONE
TV — EXISTING UNDERGROUND TV CABLE
S — EXISTING SANITARY SEWER PIPE
FM — EXISTING SANITARY SEWER FORCED MAIN
RCW — EXISTING RECLAIMED WATER PIPE
SD — EXISTING STORM DRAIN PIPE
IRR — EXISTING IRRIGATION PIPE
W — EXISTING WATER PIPE
G — EXISTING NATURAL GAS PIPE
NEW PIPE FOR IRRIGATION OR STORM DRAIN
TOE — TOE OF SLOPE
C — CUT LIMITS
F — FILL LIMITS
EXISTING CMU WALL
X — NEW FENCE
1100 — HIGH WATER LEVEL
SAWCUT LINE
LT — NEW LIGHTING CONDUIT
FO — FIBER OPTIC
NEW CMU WALL
EXIST BLOCK WALL
NEW GUARDRAIL W/ END TREATMENT
ROADSIDE SWALE / FLOWLINE

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT

ABBREVIATIONS AND LEGEND

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232
PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER I-01
03 OF 125

SUBMITTAL: 3RD SUBMITTAL
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\03-215035-IX01.dwg

CITY OF BUCKEYE GENERAL CONSTRUCTION NOTES

1. CITY OF BUCKEYE BUILDING DEPARTMENT SHALL; BE NOTIFIED 24 HOURS IN ADVANCE OF ANY ON–SITE OR OFF SITE CONSTRUCTION. PHONE 623–349–6248 FOR THE HOTLINE. ALL OTHERS FAX THE INSPECTION REQUEST FORM TO 623–349–6221, OR USE THE WEB BASED PERMIT PORTHOLE ACCESS TO SCHEDULE AN INSPECTION (WWW.BUCKEYEAZ.GOV).
2. ALL WORK AND MATERIALS MUST CONFORM WITH THESE SPECIFICATIONS, THE CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS SPONSORED AND DISTRIBUTED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) AND AS AMENDED BY THE CITY OF BUCKEYE (COB).
3. A PERMIT IS REQUIRED FROM THE COB FOR ALL CONSTRUCTION WITHIN THE RIGHTS–OF–WAY (ROW).
4. THE CONTRACTOR WILL EXPOSE ALL EXISTING UTILITY LINES BEING TIED IN TO VERIFY THEIR LOCATION.
5. THE CONTRACTOR WILL LOCATE, OR HAVE LOCATED, ALL EXISTING UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, PIPELINE, ETC.) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL ELIMINATE ALL CONFLICTS PRIOR TO START OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE TO CALL BLUE STAKE PRIOR TO STARTING ANY CONSTRUCTION. NO WORK SHALL BEGIN UNTIL BLUE STAKE IS COMPLETED. BLUE STAKE TELEPHONE NUMBER 602–263–1100 OR 1–800–ST AKE–IT.
7. A PRE–CONSTRUCTION MEETING IS REQUIRED PRIOR TO STARTING ANY WORK OR NEW PHASE OF WORK. THE CONTRACTOR, KEY SUB–CONTRACTORS, COB INSPECTOR AND REPRESENTATIVE OF THE CITY ENGINEER SHALL ATTEND THIS MEETING.
8. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE COB AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
9. DISPOSAL OF EXCESS MATERIAL WITHOUT A PERMIT WITHIN THE COB LIMITS IS PROHIBITED. A USE PERMIT IS REQUIRED FOR DISPOSAL OR STOCKPILING OF MATERIALS WITHIN A RESIDENTIAL AREA. STOCKPILING OF EXCAVATED MATERIAL SHALL NOT EXCEED A HEIGHT OF 6 FEET ABOVE THE NATURAL GROUND ELEVATION. THE SLOPES ON ALL SIDES OF THE STOCKPILED EXCAVATED MATERIAL SHALL NOT EXCEED A 4: I RATIO OF LENGTH TO HEIGHT.
10. EXCAVATION CONTRACTORS MUST IDENTIFY LOCATION FOR DISPOSING OF EXCESS EXCAVATION MATERIAL ALONG WITH A LETTER FROM THE LAND OWNER, GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ANY CONSTRUCTION.
11. TRAFFIC CONTROL SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF PHOENIX BARRICADING MANUAL, MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION, M.A.G. UNIFORM STANDARD DETAIL 401, AND COB REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN AND BARRICADE PLAN TO THE COB FOR APPROVAL WHERE THE CONSTRUCTION OF THE NEW IMPROVEMENTS ARE ADJACENT TO OR CONNECTING TO ANY EXISTING ROADWAY OR PEDESTRIAN FACILITIES. THE TRAFFIC CONTROL PLAN AND BARRICADE PLAN SHALL BE APPROVED BEFORE A PERMIT FOR THE WORK WILL BE ISSUED. THE CONTRACTOR SHALL INSTALL APPROVED BARRICADING AND TRAFFIC CONTROL, AS APPROVED BY THE COB, BEFORE WORK CAN TAKE PLACE. ALL OVERNIGHT BARRICADES SHALL BE LIT AND FUNCTIONING.
12. A HAUL PLAN FOR MATERIAL IMPORT OR EXPORT SHALL BE REQUIRED FOR COB REVIEW AND APPROVAL PRIOR TO THE START OF HAULING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN–UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC. THIS WORK INCLUDES STREET SWEEPING, POWER BROOM AND WATER AS NEEDED OR DIRECTED BY THE COB.
13. ENVIRONMENTAL REQUIREMENTS
    - A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL RELATED TO THE PROJECT CONSTRUCTION AND SHALL TAKE WHATEVER MEANS NECESSARY TO CONTROL ANY ABNORMAL CONDITIONS.
    - B. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.
    - C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN–UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC.
    - D. TEMPORARY DRAINAGE CONTROL MEASURES MAY BE REQUIRED DURING AND AFTER CONSTRUCTION UNTIL FINAL PROJECT BUILD–OUT IN ACCORDANCE WITH THE APPROVED PLANS AND IN ACCORDANCE WITH ANY ESTABLISHED OR REQUIRED BEST MANAGEMENT PRACTICES (BMP) AS PART OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET ALL REQUIREMENTS.
    - E. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL AIR QUALITY PERMITS.
    - F. THE CONTRACTOR SHALL SUBMIT TO THE COB A COPY OF THEIR APPROVED COUNTY (AIR QUALITY) DUST CONTROL PLAN, EROSION CONTROL PLAN (SWPPP), AND PERMIT PRIOR TO THE START OF WORK.
14. STREET CUTS: APPLICATIONS FOR STREET CUT PERMITS MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO APPROVAL OF IMPROVEMENT PLANS. THE PAVEMENT REPLACEMENT SECTION FOR ALL LONGITUDINAL AND TRANSVERSE TRENCHES LOCATED IN AN EXISTING PAVED STREET SHALL BE CONSTRUCTED IN ACCORDANCE M.A.G. UNIFORM STANDARD DETAIL NO. 200 "T"–TOP, BACKFILL, PAVEMENT SURFACE REPLACEMENT, MODIFIED AS FOLLOWS: THE WIDTH OF THE REPLACED PAVEMENT SECTION EXTEND I FOOT BEYOND THE TRENCH SIDE EDGE LINE, ON EITHER SIDE OF THE TRENCH. THE DEPTH OF THE PERMANENT SURFACE REPLACEMENT SHALL BE A MINIMUM OF 3 INCHES OR MATCH THE EXISTING THICKNESS OF THE PAVEMENT, WHICHEVER IS GREATER. SAWCUT OR CONSTRUCTION JOINTS SHALL BE ADEQUATELY TACK OILED WITH A MINIMUM OF 95% COVERAGE. ASPHALT MATERIAL SHALL BE A COB APPROVED MIX DESIGN WITH COMPACTED LIFTS NO GREATER THAN 3 INCHES. SLURRY BACKFILLED OR OPEN TRENCHES IN EXISTING ROADWAYS MUST BE PROPERLY STEEL PLATED AND BARRICADED OVER NIGHT. STEEL PLATES TO BE MILLED FLUSH WITH ROADWAY SURFACE PER NOTE 24. "COLD MIX" TEMPORARY ASPHALT PATCHES MUST BE REPLACED AS SOON AS POSSIBLE AND CANNOT REMAIN FOR MORE THAN 5 DAYS TIME OR AS REQUIRED BY THE COB. DURING THE 5 DAY PERIOD THE CONTRACTOR IS REQUIRED TO MAINTAIN THE PATCH TO WITHIN MAG STD SPEC 321 .5.3. ASPHALT IN PLACE FOR LESS THAN 5 YEARS SHALL BE MILLED AND OVERLAYED A MINIMUM OF 20 FEET PAST TRENCH WALLS, AND IN THE CASE OF MULTIPLE STREET CUTS, THE CONTINUOUS MILL AND OVERLAY SHALL EXTEND A MINIMUM OF 20–FEET PAST END OF THE FURTHEST TRENCH WALLS.
15. POTHOLING: NO POTHOLING SHALL BE DONE ON ANY STREET NEWER THAN 2 YEARS OLD. ALL POTHOLING IN EXISTING STREETS SHALL BE DONE USING WATER/AIR/VACUUM TYPE METHOD. POTHOLE SIZE SHALL BE LIMITED TO A 12 INCH BY 12 INCH SQUARE HOLE. REMOVAL MATERIAL CANNOT BE USED FOR BACK FILL. THE CONTRACTOR SHALL USE SLURRY PER MAG SEC. 728. PAVEMENT REPLACEMENT SHALL BE BY APPROVED HOT MIX ASPHALT ONLY. A 3 FOOT BY 3 FOOT PAVEMENT SLURRY SEAL SHALL BE APPLIED AFTER THE ASPHALT IS PLACED.
16. AN APPROVED, UP–TO–DATE SET OF PLANS AND A RIGHT–OF–WAY PERMIT SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES WHILE WORK IS IN PROGRESS. IF THE PLANS AND PERMITS ARE NOT ON SITE, THE WORK SHALL BE STOPPED UNTIL THE APPROVED PLANS ARE PROVIDED. DEVIATION FROM THE PLANS SHALL NOT BE ALLOWED WITHOUT THE COB'S APPROVAL.
17. DAMAGE TO ANY AND ALL ITEMS CAUSED BY CONSTRUCTION OR CONSTRUCTION RELATED WORK SHALL BE REPLACED OR REPAIRED TO THE SAME OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
18. ALL PARCEL CONSTRUCTION ACCESS LOCATIONS ARE SUBJECT TO THE CITY ENGINEER'S APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER AND ADEQUATE ACCESS ROADS INSIDE AND THROUGHOUT THE PARCEL ALLOWING FOR INSPECTION ACCESSIBILITY. THIS INCLUDES GRADING, GRAVEL FILL AND/OR TRENCH PLATES AS REQUIRED.
19. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE COB AND THE COB CONSULTANTS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE COB.
20. THE COB SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONNECTION WITH THE WORK. THE COB WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS COMPLYING WITH MAG OR COB REQUIREMENTS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CERTIFIED AS–BUILT RECORD DOCUMENTS TO THE COB FOR REVIEW AND APPROVAL. NO FINAL ACCEPTANCE SHALL BE ISSUED UNTIL "AS–BUILT" PLANS CERTIFIED BY THE PROJECT ENGINEER/LAND SURVEYOR HAVE BEEN SUBMITTED AND ACCEPTED BY THE COB. FINAL CONSTRUCTION ACCEPTANCE OR THE RELEASE OF CERTIFICATE OF OCCUPANCIES SHALL NOT BE ISSUED UNTIL ALL AS–BUILT DRAWINGS AND OTHER REQUIRED DOCUMENTS PER THE COB'S FINAL PROJECT SUBMITTAL CHECKLIST, HAVE BEEN REVIEWED AND APPROVED BY THE CITY ENGINEER.
22. ARRANGEMENTS FOR CONSTRUCTION WATER CAN BE MADE BY CALLING THE WATER RESOURCE DEPARTMENT AT (623) 349–6800.
23. THE COB IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. ALSO, THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR RELOCATION OF UTILITIES.
24. ALL CONTRACTORS SHALL CONTRACT FOR TRASH PICKUP THROUGH A LICENSED CITY OF BUCKEYE SOLID WASTE HAULER (602–237–2078) AND DISPOSED OF AT THE SOUTHWEST REGIONAL LANDFILL IN BUCKEYE.
25. OPEN TRENCHES ACROSS DRIVEWAYS, STREETS AND CROSS–STREETS SHALL BE PLATED FOR OVERNIGHT, WEEKEND OR EXTENDED PERIODS, PER M.A.G. UNIFORM STANDARD DETAIL 211.
26. ALL ABC SHALL BE FROM AN ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) APPROVED SOURCE LIST.
27. LONGITUDINAL TRENCH BACKFILL IN EXISTING ARTERIAL, COLLECTOR, OR LOCAL ROADWAYS OR ADJACENT TO EXISTING ROADWAY (WHEN THE TRENCH EXCAVATION FALLS WITHIN 2 FEET OF EDGE OF PAVEMENT) SHALL REQUIRE 1/2 SACK CLSM PER MAG SPEC 728 FULL DEPTH OR ABC FULL DEPTH AS DIRECTED BY THE COB. ABC BACKFILL COMPACTION SHALL BE BY AN APPROVED MECHANICAL METHOD (NO WATER SETTLING) WITH BACKFILL MATERIAL LIFTS AS FOLLOWS:
    - 12 INCH LIFTS (LOOSE) TO BE USED IN THE TOP 4 FEET OF THE TRENCH
    - 24 INCH LIFTS (LOOSE) TO BE USED FROM 1 FOOT OVER THE PIPE TO 4 FEET FROM THE TOP OF THE TRENCH PER MAG SEC. 601A.
28. ALL BACKFILL WITHIN OR ADJACENT TO EXISTING ROADWAYS SHALL BE MECHANICALLY COMPACTED.
29. TRANSVERSE TRENCH BACKFILL IN ALL EXISTING ROADWAYS SHALL REQUIRE 100% FULL DEPTH HALF SACK CLSM PER MAG SPEC 728.
30. ALL MATERIAL SUBMITTALS INCORPORATED IN THE PROJECT SHALL BE SUBMITTED AT OR BEFORE THE PRECONSTRUCTION MEETING FOR REVIEW AND APPROVAL BY THE CITY ENGINEER.

CITY OF BUCKEYE PAVING NOTES

1. LOCATION OF ALL VALVES AND MANHOLES MUST BE REFERENCED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION.
2. SUBGRADE AND PAVING OPERATIONS SHALL NOT BEGIN UNTIL ALL UTILITY FRAME AND COVER LOCATIONS HAVE BEEN PROPERLY REFERENCED TO FACILITATE ADJUSTMENTS.
3. BASE COURSE SHALL NOT BE PLACED ON SUBGRADE UNTIL ALL SUBGRADE REQUIREMENTS HAVE BEEN COMPLETED AND APPROVED BY THE CITY INSPECTOR.
4. NO PAVING CONSTRUCTION SHALL COMMENCE UNTIL ALL UNDERGROUND UTILITIES WITHIN THE ROADWAY ARE COMPLETED, TESTED, APPROVED AND THE "TO PAVE" AS BUILT DRAWINGS ARE REVIEWED AND APPROVED BY THE CITY.
5. BASE COURSE SHALL NOT BE PLACED ON SUBGRADE UNTIL BASE REQUIREMENTS HAVE BEEN COMPLETED TESTED AND APPROVED BY THE CITY.
6. ALL RETURN TYPE DRIVEWAYS WITH CONCRETE PAVEMENT SHALL UTILIZE MAG CLASS A CONCRETE FOR ALL CONSTRUCTION WITHIN THE RIGHT–OF–WAY.
7. ASPHALT AND GUTTERS SHALL BE WATER TESTED IN THE PRESENCE OF THE CITY'S AUTHORIZED REPRESENTATIVE TO ENSURE PROPER DRAINAGE, PRIOR TO FINAL APPROVAL BY THE CITY. WATER SHALL NOT POND MORE THAN 1/4 OF AN INCH. ANY PONDING THAT EXCEED THIS WILL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
8. THE EXACT POINT OF MATCHING, TERMINATION AND OVERLAY WILL BE DETERMINED IN THE FIELD BY THE CITY OF BUCKEYE ENGINEERING DEPARTMENT.
9. NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT, AND SIDEWALKS HAVE BEEN SWEPT CLEAN OF ALL DIRT AND DEBRIS. ALL WATER SERVICE METER BOXES SHALL BE SET TO HAVE THE TOP OF THE BOX ELEVATION MATCH TOP OF SIDEWALK ELEVATION.
10. ALL SLEEVING INSTALLED UNDER NEW STREETS SHALL BE DONE WITH SCH 80 PVC SLEEVING CONDUIT UNLESS OTHERWISE SPECIFIED.
11. NO GRINDING OF CONCRETE IS ALLOWED IN THE CITY OF BUCKEYE. REVERSE FLOW IN CURB GUTTER, AND VALLEY GUTTERS WILL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
12. ALL JOINTS SHALL BE TACK COATED WITH A MINIMUM OF 95% COVERAGE OF THE JOINT.
13. CONCRETE REPAIR WILL NOT BE ALLOWED IN THE CITY OF BUCKEYE. ALL DAMAGED CONCRETE SHALL BE REMOVED AND REPLACED TO THE NEAREST JOINT.
14. ALL ASPHALT JOINTS SHALL BE SEALED PRIOR TO THE FINAL WALK THROUGH.
15. FIBER MESH IS REQUIRED IN ALL CONCRETE APRONS AND VALLEY GUTTERS.
16. ALL MILLINGS FROM PUBLIC PROJECTS SHALL BE GIVEN TO THE CITY OF BUCKEYE PUBLIC WORKS DEPARTMENT.
17. HIGH SPOTS IN ASPHALT SHALL BE REMOVED AND REPLACED. REHEATING OR BURNING OF ASPHALT IS NOT ALLOWED IN BUCKEYE.
18. ALL ASPHALT SHALL BE SAW CUT TO A CLEAN TRUE EDGE FOR THE FULL FACE OF THE SECTION PRIOR TO TYING IN. MILLED EDGES WILL BE EVALUATED BY THE CITY INSPECTOR FOR POSSIBLE ACCEPTANCE.
19. AN RLS CERTIFIED AS BUILT PLAN OF ALL NEW CONCRETE CURB AND GUTTER, VALLEY GUTTER, DRAINAGE CONTROL STRUCTURES, SURVEY MONUMENT LOCATIONS AND ALL SIGNING AND STRIPING SHALL BE SUBMITTED PRIOR TO ACCEPTANCE OF THE COMPLETED RIGHT OF WAY IMPROVEMENTS.
20. ALL IMPROVEMENT WORK SHALL BE APPROVED BY THE CITY INSPECTOR INCLUDING UTILITY ADJUSTMENTS, SURVEY MONUMENTS, SIGN BASES, PARKWAY GRADING, AND ANY REPAIR OR REPLACEMENTS.
21. DURING ALL PAVING OPERATIONS AN ADDITIONAL LAB TECHNICIAN SHALL BE LOCATED AT THE ASPHALT PRODUCTION PLANT TO ENSURE APPROVED MATERIAL IS BEING USED IN THE ASPHALT MIX.
22. NO NEWLY PAVED STREET CAN BE OPENED TO TRAFFIC WITHOUT APPROVAL OF THE CITY INSPECTOR.
23. MATERIAL USED IN THE ASPHALT PROVIDED TO THE CITY SHALL BE 100% VIRGIN FROM AN APPROVED PIT. NO RECYCLED ASPHALT IS ALLOWED IN THE CITY OF BUCKEYE.

CITY OF BUCKEYE SEWER NOTES

1. BACKFILLING SHALL NOT BE STARTED UNTIL ALL PIPING IS INSPECTED AND APPROVED BY THE COB INSPECTOR.
2. ALL SEWER MAINS SHALL BE PRESSURE TESTED AND MANDREL TESTED (FOR FLEXIBLE PIPE) PER MAG SPECIFICATIONS. CONTRACTOR SHALL NOT COMMENCE TESTING WITHIN 30–DAYS OF INSTALLATION.
3. UPON COMPLETION OF TESTING AND FLUSHING, ALL SEWER LINE SHALL BE VIDEO INSPECTED NOT SOONER THAN 30 DAYS FOLLOWING BACKFILLING WITH THE CD/DVD PROVIDED TO THE CITY ENGINEER.
4. STEPS SHALL NOT BE ALLOWED IN MANHOLES.
5. ALL MANHOLE RINGS AND COVERS TO BE CAST IRON PER MAG. MANHOLE LIDS SHALL HAVE THE COB LOGO IMPRINTED ON IT.
6. ALL NEW SERVICE TAPS SHALL BE A WYE TYPE. TAPS TO EXISTING MAINS SHALL BE WYE OR "T" TYPE.
7. ALL TAPS TO EXISTING MAINS SHALL BE CORE DRILLED OR HOLE SAWED WITH A COB APPROVED BIT. NO CHOP SAWING OR BREAKING OUT OF THE MAIN IS ALLOWED. A COB REPRESENTATIVE FROM THE WATER RESOURCES DEPARTMENT SHALL BE ON SITE DURING ANY TAPPING OF EXISTING MAINS. A COB APPROVED SADDLE SHALL BE USED FOR THE TAP CONNECTION.
8. ALL SEWER LINE COMPACTION SHALL BE MAG BACKFILL TYPE 1 PER MAG SECTION 601. BACKFILL AROUND MANHOLES SHALL BE MAG BACKFILL TYPE 3 BACKFILL PER MAG SECTION 60 I.
9. ALL SEWER SERVICE CONNECTIONS SHALL BE EXTENDED A SUFFICIENT DISTANCE BEYOND THE PUE LINES TO CLEAR ALL FACILITIES TO BE INSTALLED IN PUBLIC UTILITY EASEMENTS WHICH PARALLEL THE STREET RIGHT OF WAY.
10. APPROVED COB COATING SHALL BE USED IN THE FOLLOWING LOCATIONS: ALL MANHOLES IN ARTERIAL STREETS, ALL 5 FOOT DIAMETER OR LARGER MANHOLES, ALL MANHOLES ON SEWERS 18 INCH AND LARGER ALL MANHOLES WITH A FLOW LINE DIFFERENCE GREATER THAN 8 INCHES.
11. ALL MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ARIZONA ADMINISTRATIVE CODE. VACUUM TESTING SHALL ONLY COMMENCE AFTER FINAL PAVING AND FINAL ADJUSTMENT OF THE RING AND COVER.
12. WHERE MANHOLES ARE LOCATED OUTSIDE OF THE STREET OR SIDEWALK THERE SHALL BE A CLASS "B" CONCRETE RING 6 INCHES THICK AND 12 INCHES WIDE WITH FIBER MESH PLACED AROUND THE MANHOLE FRAME AND COVER FLUSH WITH THE TOP OF THE FRAME. THE MANHOLE FRAME SHALL BE SET 6 TO 12 INCHES ABOVE FINISH GRADE. THERE SHALL BE A NO 4 REINFORCING BAR CENTERED IN THE CONCRETE. A GREEN CARSONITE MARKER SHALL BE INSTALLED.
13. ALL MANHOLES GREATER THAN 10 FEET DEEP FROM RIM TO THE LOWEST INVERT SHALL BE 5 FEET IN DIAMETER.
14. ALL MATERIALS SHALL BE NEW AND UNDAMAGED. ANY PIPE SHOWING EVIDENCE OF DEGRADATION SHALL NOT BE ACCEPTED. ALL REJECTED MATERIAL SHALL BE REMOVED FROM THE SITE IMMEDIATELY, OR A CEASE WORK ORDER WILL BE ISSUED.
15. ALL UNDERGROUND UTILITIES SHALL BE INSTALLED AND COMPLETELY BACKFILLED PRIOR TO THE TESTING OF THE COB INFRASTRUCTURE. IN THE EVENT PRIVATE AND/OR PUBLIC UTILITIES NEED TO BE RE–EXCAVATED THE PRIOR TEST OF THE COB FACILITIES WILL BE CONSIDERED NULL AND VOID AND RETESTING WILL BE AT THE CONTRACTORS EXPENSE.
16. NO UPSTREAM SEWER CONSTRUCTION SHALL START UNTIL THE DOWNSTREAM SEWER MAIN IS COMPLETED AND APPROVED BY THE COB INSPECTOR. PIPE LAYING SHALL COMMENCE AT THE PROPOSED PROJECT OUTFALL ON THE EXISTING COB SEWER AND PROCEED UP STREAM. ANY EXCEPTIONS TO THIS SPECIFICATION SHALL BE APPROVED IN WRITING BY THE CITY ENGINEER.
17. A MAG STANDARD DETAIL 427 PLUG SHALL BE INSTALLED IN THE FURTHEST DOWNSTREAM MANHOLE AND REMAIN IN PLACE UNTIL ALL SEWER TESTING AND CLEANING IS COMPLETED. REMOVAL OF THE PLUG SHALL ONLY BE DONE WITH THE SUPERVISION OF THE COB INSPECTOR. UNDER NO CIRCUMSTANCES SHALL THE PLUG BE REMOVED PRIOR TO COB INSPECTION. IN THE EVENT THAT THE PLUG IS REMOVED, THE CONTRACTOR SHALL AT HIS EXPENSE, CLEAN WITH A HYDRO–VAC THE SEWER MAIN DOWNSTREAM TO A LOCATION APPROVED BY THE COB INSPECTOR TO ADEQUATELY REMOVE ALL DEBRIS CARRIED INTO THE COB MAIN. SHOULD THE SEWER PLUG FAIL PRIOR TO THE COB INSPECTION THE CONTRACTOR SHALL AT HIS EXPENSE, CLEAN WITH A HYDRO–VAC THE SEWER MAIN DOWNSTREAM TO A LOCATION APPROVED BY THE COB INSPECTOR TO ADEQUATELY REMOVE ALL DEBRIS CARRIED INTO THE COB MAIN. A VIDEO INSPECTION AFTER CLEANING WILL ALSO BE REQUIRED OF THE EXISTING MAIN AND ALL EXPENSES WILL BE PAID BY THE CONTRACTOR. ANY DAMAGES OR CLEANING EXPENSES AT AFFECTED LIFT STATIONS AND LEVIED FINES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO PRIVATE PROPERTY AND/OR ENVIRONMENTAL DAMAGE/CLEAN UP.
18. COB APPROVED MANHOLE COATING/LINING SYSTEMS SHALL BE SPRAY–ON SUCH AS RAVEN, SPECTRASHIELD, ETC. ALL COATINGS SHALL BE APPROVED BY THE COB
19. ALL MANHOLE BASES SHALL BE PRECAST PER COB DETAILS. CAST–IN–PLACE MANHOLE BASES WILL ONLY BE ALLOWED WITH APPROVAL BY THE CITY ENGINEER.
20. NO FERRIS MATERIAL SHALL BE USED ON THE INTERIOR OF THE MANHOLE UNLESS COMPLETELY COATED WITH A COB APPROVED COATING.
21. ANY CURB AND GUTTER REMOVED WITH UTILITY MARKINGS SHALL BE REPLACED AND THE UTILITY MARKING SHALL BE RE–STAMPED IN THE CURB.
22. MATERIAL SHALL BE SUBMITTED AT OR BEFORE THE PRE–CONSTRUCTION MEETING AND ARE REQUIRED TO INCLUDE:
    - 22.1. 24" AND 30" FRAME AND COVER
    - 22.2. 45", 60", AND 72" MANHOLE SHAFT AND CONE
    - 22.3. 45", 60", AND 72" MANHOLE PRECAST BASE
    - 22.4. MANHOLE ADJUSTING RINGS
    - 22.5. MANHOLE LINING SYSTEM
    - 22.6. MAG SPEC. ABC
    - 22.7. PRECAST MANHOLE BASE GASKET SYSTEM
    - 22.8. MANHOLE JOINT SEALANT
    - 22.9. CAST IN PLACE MANHOLE BASE CONCRETE
    - 22.10. WATER STOP GASKETS
    - 22.11. SEWER PIPE FITTINGS
    - 22.12. COUPLINGS
    - 22.13. PIPE ZONE MATERIAL: ABC, #57 ROCK, 112 SACK SLURRY, 1 SACK SLURRY
    - 22.14. ADJUSTING RING CONCRETE
    - 22.15. MARKER BALLS
    - 22.16. STEEL CASING
    - 22.17. CASING SPACERS
    - 22.18. CASING END SEAL
    - 22.19. PIPE MATERIAL

NOTES:

1. CITY OF BUCKEYE NOTES PROVIDED ON THIS PAGE ARE FOR REFERENCE ONLY AS NOTES ARE SUBJECT TO CHANGE. CONTRACTOR TO VERIFY THAT NOTES ARE COMPLETE AND CURRENT. CURRENT NOTES ARE AVAILABLE ONLINE AT: WWW.BUCKEYEAZ.GOV/DEVELOPERS/ENGINEERING/

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT

GENERAL NOTES

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232
PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER 2014-071	SHEET NUMBER GN01 — 04 OF 125

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 – City of Buckeye Engineering Services RSID\CAD Files\Sheets\04-215035-GN01.dwg

CITY OF BUCKEYE GRADING NOTES

1. ALL DESIGN AND CONSTRUCTION MUST BE IN ACCORDANCE WITH THE UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION PUBLISHED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) EXCEPT AS AMENDED BY THE CITY OF BUCKEYE STANDARD CONSTRUCTION DETAILS. ALL IMPROVEMENTS WITHIN THE DEVELOPMENT INCLUDING OFFSITE IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE LATEST CITY OF BUCKEYE ENGINEERING DESIGN STANDARDS.
2. NO GRADING SHALL BEGIN WITHOUT A PERMIT FROM THE CITY OF BUCKEYE.
3. OFFSITE CONSTRUCTION REQUIRES A SEPARATE PERMIT BY THE CITY OF BUCKEYE.
4. CONTRACTOR SHALL NOTIFY THE CITY OF BUCKEYE PUBLIC WORKS DEPARTMENT ASSIGNED INSPECTOR AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY REQUIRED CONSTRUCTION INSPECTION.
5. CONTRACTOR MUST CALL THE ARIZONA BLUE STAKE CENTER (602) 263-1100, FORTY-EIGHT (48) HOURS BEFORE DIGGING OR EXCAVATING FOR LOCATION OF ALL UNDERGROUND UTILITIES.
6. IT IS THE RESPONSIBILITY OF THE DEVELOPER AND HIS/HER AGENT IN COORDINATING THE RELOCATION OF POWER POLES FROM THE APPLICABLE UTILITY COMPANY.
7. NO MINIMUM FINISHED FLOOR ELEVATION SHALL BE ALTERED, UNLESS APPROVED BY PUBLIC WORKS AND THE DEVELOPER'S CIVIL ENGINEER.
8. ALL STAKING INCLUDING FINISHED FLOOR ELEVATIONS IS THE SOLE RESPONSIBILITY OF THE DEVELOPER'S REGISTERED CIVIL ENGINEER AND LAND SURVEYOR. SUBMISSION OF CERTIFIED PAD ELEVATIONS IS REQUIRED PRIOR TO FINAL ACCEPTANCE.
9. CONTRACTOR SHALL PROVIDE GRADING FOR POSITIVE DRAINAGE IN ALL RETENTION BASINS AT ELEVATIONS AS ABUTTING PUBLIC RIGHT OF WAY.
10. DRYWELL INLET GRATE SHALL BE 0.30 FEET ABOVE FINISH GRADE AT BOTTOM ELEVATION OF THE RETENTION BASIN.
11. DRILLING LOGS FOR DRYWELLS AT 5.0 FOOT INTERVALS INCLUDING LITHOLOGY CHANGES WILL BE FURNISHED TO THE CITY OF BUCKEYE PUBLIC WORKS DEPARTMENT PRIOR TO FINAL ACCEPTANCE.
12. PERCOLATION TESTS WILL BE REQUIRED OF COMPLETED DRYWELLS PRIOR TO ACCEPTANCE. SHOULD EXISTING SOIL CONDITIONS BE ENCOUNTERED WHICH LACK SUFFICIENT PERCOLATION RATES, ADDITIONAL DRYWELLS OR AN ALTERNATE METHOD OF STORM WATER RUN-OFF DISPOSAL WILL BE REQUIRED. FINAL CERTIFIED PERCOLATION TEST RATES FROM ASTM D 3385 SHALL BE SUBMITTED AT THE TIME OF AS-BUILTS, WITH THE REQUIRED 50% REDUCTION FACTOR.
13. DRYWELL CONSTRUCTION SHALL BE DONE ONLY BY A CONTRACTOR LICENSED BY THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY WITH THE APPROVED REGISTRATION FOR EACH DRYWELL.
14. THE APPROVED DRYWELL REGISTRATION SHALL BE SUBMITTED TO THE CITY BY THE DEVELOPER OR HIS/HER CIVIL ENGINEER AT THE TIME AS-BUILTS ARE SUBMITTED.
15. CONTRACTOR SHALL COMPLY WITH THE PROVISIONS FOR WORK ZONE SAFETY AND TRAFFIC CONTROL PROTECTION AS INDICATED IN PART IV OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD 2003 EDITION) AND WHERE APPLICABLE ACROSS JURISDICTIONAL AUTHORITIES BUT WITHIN THE CITY OF BUCKEYE, MCDOT, AND ADOT'S TRAFFIC CONTROL MANUAL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE (MOST CURRENT EDITION).
16. ALL RETENTION BASINS MUST DRAIN ANY STORM EVENT UP TO AND INCLUDING THE 100 YEAR 2 HOUR STORM WITHIN THIRTY-SIX (36) HOURS OF POST DEVELOPMENT CONSTRUCTION. OWNER(S) OF ANY BASIN FAILING TO MEET THIS REQUIREMENT MUST TAKE CORRECTIVE ACTION TO BRING THE BASIN INTO COMPLIANCE.
17. THE CONTRACTOR SHALL NOT DISTURB EXISTING SURVEY MONUMENTS OR BENCHMARKS NOTED ON THE PLANS. REMOVAL AND REPLACEMENT SHALL BE DONE BY AN ARIZONA REGISTERED LAND SURVEYOR ONLY.
18. THE CONTRACTOR SHALL HAVE SUFFICIENT MEANS TO PROVIDE DUST CONTROL. DUST SHALL BE CONTROLLED IN ACCORDANCE WITH THE MARICOPA COUNTY ENVIRONMENTAL SERVICES.
19. PERIMETER WALL FENCES ARE REQUIRED TO BE COMPACTED NO LESS THAN 90% BY THE CONTRACTOR.
20. ARRANGEMENTS FOR CONSTRUCTION WATER CAN BE MADE BY CALLING THE CITY OF BUCKEYE PUBLIC WORKS DEPARTMENT AT 623-349-6800.
21. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR THE ELIMINATION OF MUD AND DUST ACCUMULATION IN PUBLIC STREETS BY TRUCKS LEAVING THE SITE (TRACK OUT DEVICES). PUBLIC RIGHT OF WAYS SHALL BE KEPT CLEAN AND FREE OF DEBRIS FROM CONSTRUCTION SITES.
22. DISPOSAL OF EXCESS MATERIAL WITHIN THE CITY'S LIMITS IS PROHIBITED. A USE PERMIT IS REQUIRED FOR DISPOSAL AND/OR STOCKPILING MATERIALS WITHIN A RESIDENTIAL AREA.
23. APPROVED CONSTRUCTION PLANS SHALL BE KEPT ON THE JOBSITE AT ALL TIMES. DEVIATION FROM THE PLANS IS NOT ACCEPTABLE UNLESS AN APPROVED PLAN REVISION HAS BEEN GRANTED BY PUBLIC WORKS DEPARTMENT.

CITY OF BUCKEYE WATER NOTES

1. BACKFILLING SHALL NOT BE STARTED UNTIL LINES HAVE BEEN INSPECTED AND APPROVED BY THE CITY.
2. FIRE HYDRANTS SHALL BE WATROUS "PACER", MUELLER OR CLOW BREAK-AWAY, DRY-BARREL DESIGN AND SHALL BE FURNISHED BY THE CONTRACTOR. ALL FIRE HYDRANTS SHALL BE PAINTED NFPA YELLOW OR OTHER COLORS BASED ON STANDARD DETAIL 31414 AFTER INSTALLATION. EACH FIRE HYDRANT SHALL BE FURNISHED WITH A GATE VALVE AND NATIONAL STANDARD THREADS. FIRE HYDRANTS SHALL BE INSTALLED SUCH THAT THE CENTERLINE OF THE MAIN PUMPER NOZZLE SHALL NOT BE LESS THAN IS-INCHES OR MORE THAN 24" ABOVE FINISHED GRADE OR ADJACENT TOP OF CURB.
3. ALL VALVES SHALL BE RESILIENT WEDGE GATE TYPE AND OPEN TO THE LEFT.
4. ALL SERVICE LINES SHALL BE TYPE K COPPER PIPE FROM CITY MAIN TO METER (THROUGH 2 " SIZE). SERVICE CONNECTIONS SHALL CONFORM TO THE CITY OF BUCKEYE STANDARD DETAIL 31330.
5. ALL TAPS SHALL USE A BRONZE SERVICE SADDLE. EIGHT (S) INCHES OR LESS SHALL BE SINGLE STRAP AND TWELVE (12) INCHES OR GREATER SHALL BE DOUBLE STRAP. STAINLESS STEEL STRAP(S) SHALL BE USED FOR PVC PIPE; OR BRONZE STRAP(S) FOR DUCTILE IRON PIPE.
6. METER BOXES AND LIDS SHALL BE SUPPLIED BY THE DEVELOPER AND INSTALLED FACING THIS LOT. ADJUSTMENT TO FINAL GRADE SHALL BE BY DEVELOPER OR ITS CONTRACTOR. POLYMER CONCRETE METER BOXES WITH CONCRETE LID SHALL BE USED FOR ALL INSTALLATIONS PER COB DETAILS 31331 THROUGH 31336.
7. ALL WATER METERS SHALL BE PURCHASED AND INSTALLED BY THE DEVELOPER OR CONTRACTOR. ALL METERS AND BOXES SHALL BE IN ACCORDANCE WITH CITY STANDARDS AND SHALL BE COMPATIBLE WITH AMR SYSTEM. 5/S" AND 3/4" METERS ARE NOT PERMITTED.
8. ALL VALVE BOXES SHALL BE MAG STD. DETAIL 391-1 TYPE "C" AND MANUFACTURED BY TYLER UNION, SIGMA HEAVY DUTY RATED, OR CITY APPROVED EQUAL. WHERE VALVE BOXES ARE LOCATED OUTSIDE THE STREET OR SIDEWALK THERE SHALL BE A CLASS 'B' CONCRETE RING 6" THICK, AND 30" IN DIAMETER PLACED AROUND THE VALVE BOX AND FLUSH WITH THE TOP OF THE VALVE BOX. THE VALVE BOX SHALL BE SET 0.1' HIGHER THAN THE SURROUNDING GRADE. THERE SHALL BE A #4 BAR CENTERED IN THE CONCRETE RING AND CONTRACTOR SHALL INSTALL A BLUE CARSONITE MARKER LABELED "WATER VALVE."
9. ALL WATERLINE COMPACTION SHALL BE TYPE I PER MAG SPECIFICATION SECTION 601.
10. ALL WATERLINE FITTINGS SHALL BE DUCTILE IRON WITH MECHANICAL JOINTS.
11. ALL BACKFLOW PREVENTERS SHALL HAVE AWWA CERTIFICATION. PRIOR TO OCCUPANCY, CONTRACTOR OR OWNER SHALL PROVIDE TESTING BY A CERTIFIED TESTER FOR ALL BACKFLOW PREVENTERS. TESTING SHALL BE WITNESSED BY THE CITY INSPECTOR. A COPY OF TEST REPORTS SHALL BE PROVIDED TO THE CITY INSPECTOR.
12. WATER LINE TESTING SHALL BE IN CONFORMANCE WITH MAG STANDARD SPECIFICATION 610.15. ONE HUNDRED (100%) PERCENT OF ALL NEW WATERLINES AND SERVICES SHALL BE PRESSURE TESTED. DISINFECTION SHALL BE IN ACCORDANCE WITH MAG STD. SPECIFICATION 611.
13. REFER TO DETAIL NO. 31200 FOR UNAUTHORIZED WATER VALVE SHUTOFF REQUIREMENTS.
14. WATER JETTING PER MAG SC. 601.4 IS ALLOWED ONLY FOR WATERLINE TRENCH BACKFILL IN NEW, LOCAL, AND COLLECTOR STREET ROADWAYS WITHIN NEW DEVELOPMENTS. BACKFILL MATERIAL LIFTS FOR WATER JETTING SHALL NOT EXCEED 4' (LOOSE) IN DEPTH. WATER CONSOLIDATION SHALL NOT BE ALLOWED FOR BACKFILL AND COMPACTION OF WATER LINE TRENCHES IN OR ADJACENT TO EXISTING ROADWAYS OR NEW ARTERIAL STREET ROADWAYS. TRENCH FLOODING IS NOT ALLOWED.
15. SHUT-DOWNS AND NIGHT TIE-INS SHALL BE APPROVED AND SCHEDULED WITH THE CITY OF BUCKEYE WATER DEPARTMENT.
16. ALL DIP SHALL BE POLY-WRAPPED AND CEMENT MORTAR LINED.
17. I" WATER METER CURB STOPS TO BE SET S" BELOW THE BOTTOM OF METER BOX LID. ALL WATER SERVICES SHALL BE I" OR LARGER.
18. CONTRACTOR SHALL MARK ALL METER LOCATIONS WITH A 2" X 4" METAL STUD MARKER, PAINTED BLUE, PLACED 3' BELOW GRADE AND 2'ABOVE GRADE. ALL METER LOCATIONS SHALL ALSO BE REFERENCE MARKED WITH BLUE PAINT ON ADJACENT CONCRETE AS DIRECTED BY THE CITY INSPECTOR.
19. TRACER WIRE SHALL BE USED ON ALL WATER LINE CONSTRUCTION. THE WIRE SHALL BE RUN DIRECTLY ON TOP OF THE WATER MAIN DURING CONSTRUCTION. TRACER WIRE # I 0 GAUGE (THHN) OR APPROVED WATER MAIN TRACER WIRE INSULATED COPPER WIRE. THE WIRE SHALL BE RUN WITH ALL WATER MAINS, LOOPED UP ALL VALVE BOXES, AND TO RUN ALL TERMINATION POINTS OF THE WATER LINE. THERE SHALL BE MINIMAL UNDERGROUND SPLICES. IF A SPLICE IS NECESSARY, THE CONNECTION SHALL BE MADE WITH A WATER TIGHT CONNECTOR AS TO PROTECT ALL UNINSULATED WIRE. TRACER WIRE IS NOT REQUIRED ON COPPER SERVICE LINES.
20. NON-DETECTABLE PLASTIC WARNING TAPE SHALL BE PLACED ABOVE ALL WATER LINES. THE TAPE SHALL BE 6" WIDE, BLUE, AND HAVE A PERMANENT MARKING: "CAUTION BURIED WATER LINE BELOW," SPACED EVERY 36".
21. CONTRACTOR SHALL PROVIDE ADEQUATE CUT/ELEVATION CONSTRUCTION STAKING FOR ALL WATER LINE INSTALLATIONS, TO ALLOW FOR PROPER DEPTH INSTALLATION AND INSPECTIONS. MINIMUM STAKING LOCATIONS INCLUDE ALL MECHANICAL FITTINGS AND VALVES.
22. ALL PLANS SUBMITTED TO THE CITY FOR WATER MAIN INSTALLATION, SHALL INCLUDE THE TECHNICAL DATA FOR THE FOLLOWING ITEMS, FOR REVIEW AND APPROVAL BY THE CITY ENGINEER, PRIOR TO CONSTRUCTION (SUBMITTAL REQUIREMENTS SHALL NOT BE LIMITED BY THE FOLLOWING):
   22.1. PIPE MATERIAL INCLUDING ALL FITTINGS, VALVES, GASKETS, TAPPING SLEEVES, COUPLINGS, CORPORATION STOPS, COPPER PIPE, METER STOPS, FIRE HYDRANTS, BLOW-OFFS, AIR RELEASE VALVES, COPPER FITTINGS, METER BOXES, VALVE BOXES, TRACER WIRE, ABC, CONCRETE, AND ALL OTHER ITEMS AS REQUESTED BY THE CITY ENGINEER.
23. ALL WATER MAINS AND LATERALS SHALL BE BEDDED WITH 4" AND SHADED AND BACKFILLED TO 12" ABOVE THE TOP OF PIPE WITH APPROVED ABC MATERIAL.

RITOCH-POWELL & ASSOCIATES ENGINEER'S NOTES

1. THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE PRESENTED TO THE ENGINEER. ANYONE WHO TAKES IT UPON THEMSELVES THE INTERPRETATION OF THE DRAWINGS OR MAKES REVISIONS TO THE SAME WITHOUT CONFERRING WITH THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE CONSEQUENCES THEREOF.
2. THE ESTIMATED QUANTITIES SHOWN ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETENESS AND ACCURACY OF A DETAILED ESTIMATE BASED ON THESE PLANS, CURRENT CODES, AND SITE VISITATION.
3. ALL EARTHWORK CONSTRUCTION SHALL CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD DETAILS AND/OR SPECIFICATIONS INCLUDING ANY SUPPLEMENTS THERTO, AND ALL ADDENDA. THE CONTRACTOR IS TO FOLLOW THE RECOMMENDATION OF THE SOIL INVESTIGATION REPORT AND LETTER, AS PREPARED BY ATEK ENGINEERING CONSULTANTS, PHONE NO. (480) 659-8065, PROJECT NO. 150004, DATED FEBRUARY 4, 2016.
4. PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY IN QUANTITIES. NO CLAIMS SHALL BE MADE AGAINST THE OWNER/DEVELOPER OR ENGINEER FOR ANY EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
5. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF UTILITIES, POWER POLES, ETC.
7. THE CONTRACTOR SHALL MAKE NO CLAIM AGAINST THE OWNER OR THE SURVEYOR REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE SURVEYOR UNLESS ALL SURVEY STAKES SET BY THE ENGINEER ARE MAINTAINED INTACT AND CAN BE VERIFIED AS TO THEIR ORIGIN. IF, IN THE OPINION OF THE SURVEYOR, THE STAKES ARE NOT MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
8. THE SURVEYOR WILL MAKE FIELD AS-BUILT MEASUREMENTS OF THE WORK UPON NOTIFICATION BY THE CLIENT OR HIS REPRESENTATIVE THAT THE WORK IS COMPLETE AND READY FOR AS-BUILT SURVEY. FOR PIPE WORK, THE CONTRACTOR IS RESPONSIBLE FOR LEAVING TRENCHES OPEN SO THAT AS-BUILTS CAN BE PERFORMED TO COMPLY WITH THE CITY REQUIREMENTS. IF THE TRENCHES ARE BACKFILLED AND OBSCURED TO THE POINT THAT AS-BUILT MEASUREMENTS CANNOT BE PERFORMED, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POTHOLE UTILITY TRENCHES AS NECESSARY TO COMPLETE AN AS-BUILT SURVEY.
9. THE CONTRACTOR IS TO VERIFY THE LOCATION, ELEVATION, CONDITION, AND PAVEMENT CROSS SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING, PRIOR TO COMMENCEMENT OF GRADING, PAVING, CURB AND GUTTER OR OTHER SURFACE CONSTRUCTION. SHOULD EXISTING LOCATIONS, ELEVATIONS, CONDITION, OR PAVEMENT CROSS SLOPE DIFFER FROM THAT SHOWN ON THESE PLANS, RESULTING IN THE DESIGN INTENT REFLECTED ON THE PLANS NOT ABLE TO BE CONSTRUCTED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL COSTS ASSOCIATED WITH CORRECTIVE ACTION IF THESE PROCEDURES ARE NOT FOLLOWED.
10. EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED ACCORDING TO INFORMATION PROVIDED BY THE AGENCY OPERATING EACH UTILITY. LOCATIONS SHOWN ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. CALL BLUE STAKE FOR FIELD LOCATION AT (602) 263-1100. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES ON THE SITE. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE DRAWING, SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING SURFACE FEATURES AND FENCING SHALL BE REPLACED IN KIND.
11. THE ENGINEER AND APPLICABLE AGENCY MUST APPROVE, PRIOR TO CONSTRUCTION, ANY ALTERATION, OR VARIANCE FROM THESE PLANS. ANY VARIATIONS FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER.
12. ANY INSPECTION BY THE CITY, COUNTY, ENGINEER, OR OTHER JURISDICTIONAL AGENCY, SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH APPLICABLE CODES AND AGENCY REQUIREMENTS.
13. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL STORM DRAIN PIPES, STORM WATER RETENTION PIPES AND DRAINAGE FACILITIES FROM DAMAGE DURING ALL STAGES OF CONSTRUCTION. THE DEPTH OF COVER ON THE STORM DRAIN PIPE IS DESIGNED FOR FINAL GRADE. THEREFORE, EXTRA CARE SUCH AS BERMING OVER PIPES, FLAGGING OR SIGNAGE SHOULD BE USED DURING CONSTRUCTION TO MAINTAIN COVER OR PROTECT THE PIPES.
14. THE ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING EARTHWORK QUANTITIES FOR THIS PROJECT DUE TO THE VARYING FIELD CONDITIONS, CHANGING SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS THAT ARE BEYOND THE CONTROL OF THE ENGINEER.
15. FINISH GRADES SHOWN ON THESE PLANS ARE THE FINAL FINISH GRADES. CONTRACTOR IS RESPONSIBLE FOR OVER-EXCAVATING LANDSCAPE AREAS TO ALLOW FOR PLANTING AND UTILITY TRENCHING SPOILS AND FOR THE FINAL LANDSCAPE TREATMENT (DECOMPOSED GRANITE, LAWN, ETC.).
16. UNDERGROUND UTILITIES SHALL BE MARKED IN ACCORDANCE WITH SECTION 40-360 OF THE ARIZONA REVISED STATUTES AND LOCAL MUNICIPALITY REQUIREMENTS.
17. ALL STATIONS, OFFSETS, ROADWAY DIMENSIONS, & CONTROL POINTS ARE TO THE BACK OF CURB, UNLESS OTHERWISE NOTED.
18. AT ALL LOCATIONS SPECIFIED TO REMOVE AND REPLACE ASPHALTIC CONCRETE (AC) AND SUBGRADE (AB), THE CONTRACTOR MUST VERIFY VERTICAL CLEARANCE WITH ADJACENT AND/OR UNDERLYING UTILITIES PRIOR TO AND DURING EXCAVATION.
19. MICROSEAL LIMITS SHALL EXTEND FROM CURB TO CURB AS SHOWN ON PLANS FOR AREAS OF NEW AND EXISTING PAVEMENT.

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY NOTES

1. ALL CONSTRUCTION WITHIN FLOOD CONTROL DISTRICT (DISTRICT) RIGHTS-OF-WAY JURISDICTION SHALL CONFORM TO THE LATEST DISTRICT STANDARDS AND SPECIFICATIONS AS PUBLISHED ON THE DISTRICT'S WEB SITE.
2. CONTRACTOR MUST OBTAIN NECESSARY DISTRICT PERMIT PRIOR TO COMMENCEMENT OF CONSTRUCTION WITHIN DISTRICT RIGHT-OF-WAY AND MAINTAIN A COPY OF THE PERMIT ON THE PROJECT SITE AT ALL TIMES.
3. NOTIFY THE DISTRICT'S PERMIT INSPECTOR AT 602-525-7913 OR IF WORKING AT A DISTRICT DAM CALL 602-506-4722 AT LEAST 48 HOURS PRIOR TO ANY WORK BEING PERFORMED IN THE DISTRICT'S RIGHTS-OF-WAY.
4. CONTRACTOR PERFORMING EXCAVATION OPERATIONS IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES.
5. ANY DAMAGE TO DISTRICT'S STRUCTURES, EQUIPMENT, MATERIALS, VEGETATION, AND/OR PROPERTY SHALL BE REPLACED AND/OR REPAIRED IN-KIND TO THE SATISFACTION OF THE DISTRICT.
6. IN THE EVENT THE TERMS AND CONDITIONS IN THE DISTRICT'S PERMIT ARE NOT CONSISTENT WITH THE DISTRICT-APPROVED PLANS, THE DISTRICT'S PERMIT WILL HAVE PRIORITY.
7. IN ORDER TO CLOSE THE DISTRICT'S PERMIT AND RELEASE BONDS, THE WORK ON THE PROJECT SITE WILL HAVE TO BE COMPLETE AS DETERMINED BY THE DISTRICT'S INSPECTOR, CERTIFIED AS-BUILT PLANS ALONG WITH REQUIRED QUALITY ASSURANCE TESTS WILL HAVE TO BE PROVIDED AND ACCEPTED BY THE DISTRICT, AND ALL EASEMENTS REQUIRED BY THE PROJECT RECORDED.

MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION NOTES

1. ALL WORK SHALL CONFORM TO THE REVISED EDITION OF THE UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION PUBLISHED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) AS AUTHORIZED AND MODIFIED BY THE MOST CURRENT MCDOT SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS AND NON-CONFLICTING PROJECT SPECIAL PROVISIONS. ALL WORK MUST ALSO COMPLY WITH RESOLUTION 2001-01 MARICOPA COUNTY RESOLUTION FOR PERMITS TO WORK IN DEDICATED RIGHT-OF-WAY AND RESOLUTION 2001-02 MARICOPA COUNTY RESOLUTION FOR STREET IMPROVEMENTS, INSTALLATION OF UTILITIES AND TRAFFIC CONTROL. ANY EXCEPTIONS MUST RECEIVE EXPLICIT APPROVAL FROM MCDOT AND SHALL BE IDENTIFIED ON THE PLANS AS HAVING EXPLICIT APPROVAL FROM MCDOT. ALL CLEAR ZONE HAZARDS SHALL BE MITIGATED IN A MANOR APPROVED BY MCDOT AT NO COST TO THE COUNTY.
2. THE ENGINEERING DESIGNS ON THESE PLANS ARE ONLY APPROVED BY MCDOT IN CONCEPT AND NOT IN DETAIL. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY MCDOT. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT MCDOT FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, THE MCDOT ROADWAY DESIGN MANUAL, OR OTHER DESIGN ISSUES.
3. AN APPROVED SET OF PLANS SHALL BE ON THE SITE DURING CONSTRUCTION AND AVAILABLE TO MCDOT AND OTHER INSPECTORS.
4. ALL BOX CULVERTS CONSTRUCTED IN THE PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) LATEST DESIGN SPECIFICATIONS AND STANDARDS. MINIMUM CLEAR HEIGHT OF BOX CULVERT SHALL BE 4 FEET.
5. CONTRACTOR TO OBTAIN MCDOT PERMITS PRIOR TO CONSTRUCTION WITHIN COUNTY RIGHT-OF-WAY, AND ALL NECESSARY PERMITS FROM OTHER AGENCIES AND FROM LOCAL GOVERNMENTS FOR WORK WITHIN THEIR JURISDICTION.
6. CONTRACTOR SHALL NOTIFY THE MCDOT INSPECTION DEPT. AT LEAST 24 HOURS IN ADVANCE OF ANY CONSTRUCTION AT (602) 506-8606.
7. CONTRACTOR PERFORMING CONSTRUCTION OR EXCAVATING OPERATIONS IS RESPONSIBLE FOR LOCATING AND RELOCATING ALL UTILITIES IN CONFLICT AT NO EXPENSE TO MARICOPA COUNTY. THE CONTRACTOR SHALL CONTACT "BLUE STAKE" AT (602) 263-1100 PRIOR TO BEGINNING CONSTRUCTION.
8. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY REQUIRED PERMITS FOR EARTH MOVING FROM MARICOPA COUNTY AIR QUALITY DEPARTMENT'S DUST COMPLIANCE DIVISION (602) 506-6010 PRIOR TO CONDUCTING EXCAVATION OPERATIONS. A COPY OF THE PERMIT AND DUST CONTROL PLAN SHALL BE SUBMITTED TO THE COUNTY ENGINEER PRIOR TO COMMENCEMENT OF ANY EARTHMOVING ACTIVITIES.
9. PRIOR TO CONDUCTING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL OBTAIN FROM THE ARIZONA STATE HISTORICAL PRESERVATION OFFICER (602) 542-4009, RECOMMENDATIONS REGARDING THE NEED FOR CULTURAL RESOURCES (ARCHAEOLOGICAL) CLEARANCE. ALL DISCOVERIES OF HUMAN REMAINS, CULTURAL ARTIFACTS, OR PALEONTOLOGICAL REMAINS SHALL BE REPORTED TO THE ARIZONA STATE MUSEUM AND MCDOT. UPON DISCOVERY, CONTRACTOR SHALL CEASE OPERATIONS IN THE VICINITY OF THE FIND AND PROTECT THE DISCOVERY AREA FROM FURTHER DISTURBANCE UNTIL THE FIND CAN BE PROFESSIONALLY INVESTIGATED BY THE ARIZONA STATE MUSEUM AND MCDOT.
10. EXCEPT UNDER EMERGENCY CONDITIONS, ROADS SHALL NOT BE CLOSED FOR CONSTRUCTION ACTIVITY UNLESS PRIOR APPROVAL IS OBTAINED FROM THE MCDOT TRANSPORTATION DIRECTOR OR HIS REPRESENTATIVE.
11. PRIOR TO MOVING OR DESTROYING PROTECTED NATIVE PLANT SPECIES, THE CONTRACTOR SHALL FILE A FORMAL NOTICE OF INTENT WITH THE ARIZONA DEPARTMENT OF AGRICULTURE NATIVE PLANTS (602) 542-6408.
12. PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK, BASE COURSE AND WEARING SURFACE, SUBMIT SOIL TEST(S) OF SUBGRADE AND REVISED PAVEMENT DESIGN/CALCULATIONS TO MCDOT FOR REVIEW AND APPROVAL. IF SUBGRADE STABILIZATION IS REQUIRED, THE AREA STABILIZED SHALL BE FROM BACK OF SIDEWALK TO BACK OF SIDEWALK AND MATCH THE STABILIZATION DEPTH OF THE PAVEMENT STRUCTURE.
13. ASPHALT MIX DESIGN SHALL BE SUBMITTED TO MCDOT A MINIMUM OF 48 HOURS PRIOR TO PLACING ANY ASPHALT COURSES. (TRENCH WORK EXCLUDED.) ALL PAVED TURNOUTS SHALL HAVE THE SAME ASPHALT AND BASE REQUIREMENTS AS THE ADJACENT ROADWAY UNLESS NOTED OTHERWISE.
14. ALL COMPACTION AND BACKFILL WITHIN COUNTY RIGHT-OF-WAY SHALL CONFORM TO THE MCDOT SUPPLEMENT TO MAG SPECIFICATION SECTION 601. BACKFILL UNDER EXISTING PAVEMENT, CURB AND GUTTER, ROADWAY SHOULDERS, AND UNPAVED ROADWAYS SHALL CONSIST OF ONE-HALF (1/2) OR ONE SACK CLSM. UNPAVED ROADWAY AREAS INCLUDE THE TRAVELLED WAY PLUS FIVE FEET BEYOND THE TRAVELLED WAY.
15. ALL STRUCTURES, SUCH AS MANHOLES, VALVE BOX & COVERS, AND MONITORING WELLS MUST BE MARKED WITH AT LEAST TWO REFLECTIVE YELLOW FLEX POSTS WHEN STRUCTURES ARE LOCATED OUTSIDE THE TRAVELED WAY AND WITHIN THE RIGHT-OF-WAY. (APPLIES ONLY WHEN THERE IS NO CURB.)
16. PAVEMENT WIDENING AND PAVEMENT REPLACEMENT SHALL CONFORM TO REQUIREMENTS OF SPECIFICATION SECTION 336. PAVEMENT CUTS SHALL NOT BE LOCATED WITHIN A LANE WHEEL PATH. THE LANE WHEEL PATH IS THE ENTIRE LANE WIDTH EXCEPT THE AREA WITHIN ONE FOOT OF A LANE LINE STRIPE AND EXCEPT THE CENTER TWO FEET OF THE TRAVEL LANE.
17. ALL EXISTING PAVEMENT MARKINGS, TRAFFIC SIGNS AND SIGNAL EQUIPMENT THAT NEED TO BE REMOVED, REPLACED, RELOCATED OR REPAIRED BECAUSE OF CONTRACTOR'S WORK WILL BE DONE BY THE CONTRACTOR AT HIS EXPENSE. ALL SALVAGED SIGNS SHALL BE DELIVERED TO THE TRAFFIC OPS BUILDING AT 2909 W. DURANGO ST. ARRANGEMENTS CAN BE MADE FOR DELIVERY BY CALLING (602) 506-8662. ALL NEW STREET NAME SIGNS SHALL BE PROVIDED AND INSTALLED BY PERMITTEE AT NO EXPENSE TO MARICOPA COUNTY.
18. PAVEMENT MARKING, SIGNING AND SIGNAL WORK WILL BE INSPECTED AND SHALL MEET COUNTY STANDARDS BEFORE RELEASE OF BOND.
19. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY TO A CONDITION EQUAL TO OR BETTER THAN PRIOR EXISTING CONDITIONS PER MAG 107.9. DISPOSAL OF ALL WASTE MATERIAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

NOTES:

1. CITY OF BUCKEYE NOTES PROVIDED ON THIS PAGE ARE FOR REFERENCE ONLY AS NOTES ARE SUBJECT TO CHANGE. CONTRACTOR TO VERIFY THAT NOTES ARE COMPLETE AND CURRENT. CURRENT NOTES ARE AVAILABLE ONLINE AT: WWW.BUCKEYEAZ.GOV/DEVELOPERS/ENGINEERING/

△1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT

GENERAL NOTES

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
Registered Professional Engineer (Civil)
CERTIFICATE NO. 23232
PETER H. HEMINGWAY
Date Signed 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE 12-27-2016

LATEST REVISION DATE 12-11-17

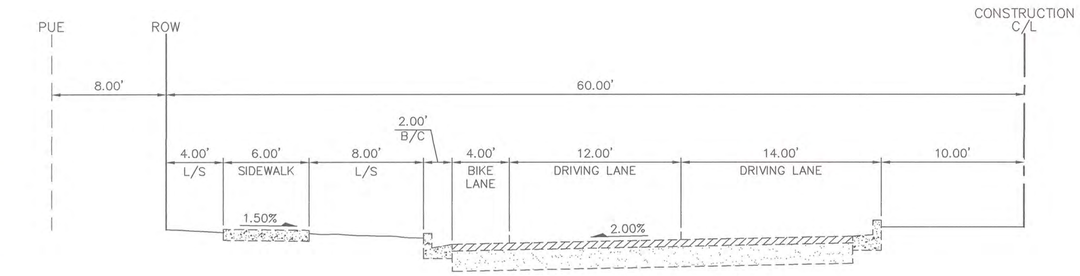
PROJECT NUMBER 2014-071

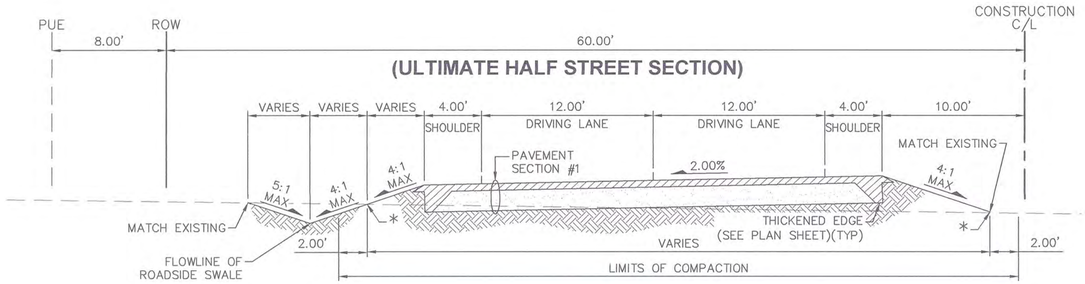
SHEET NUMBER GN02

05 OF 125

PLOT DATE: Dec 13, 2017

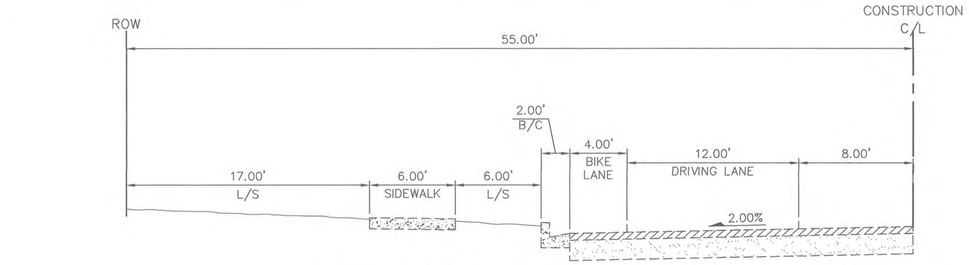
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\05-215035-GN02.dwg



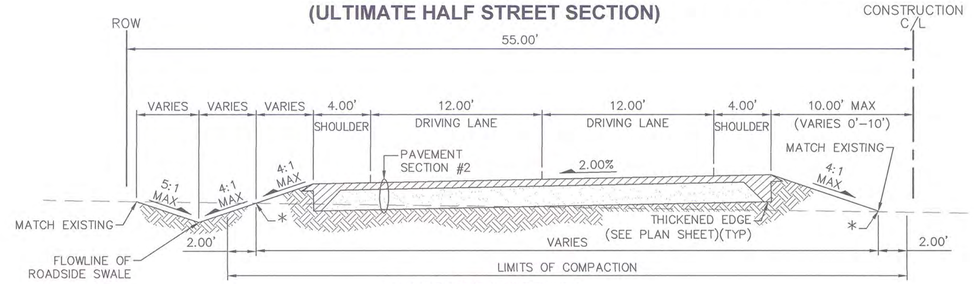


ROOSEVELT STREET

STA 36+43 TO STA 61+99
LOOKING EAST



(ULTIMATE HALF STREET SECTION)



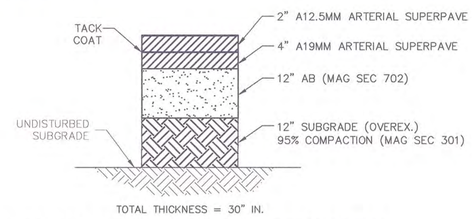
VAN BUREN STREET

STA 6+56 TO STA 19+20
LOOKING EAST
NTS

LIMITS OF ROADWA E CAVATION

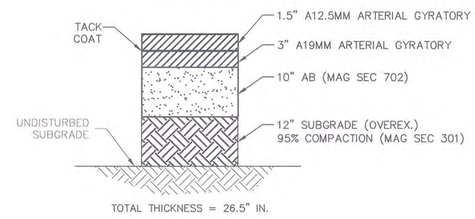
NOTE: ROW INDICATED PUBLIC RIGHT-OF-WA OR ROADWA EASEMENT. REFER TO CONTROL SHEETS FOR ACTUAL LOCATION.

STREET NAME	STREET CLASSIFICATION	STATION START - END	DESIGN SPEED	POSTED SPEED
VAN BUREN STREET	COLLECTOR	6+56 – 20+00	45 MPH	35 MPH
VAN BUREN STREET	ARTERIAL	20+00 – 46+45	55 MPH	45 MPH
215TH AVENUE	MAJOR COLLECTOR	15+06 – 36+22	45 MPH	35 MPH
211TH AVENUE	COLLECTOR	56+32 – 62+44	45 MPH	35 MPH
ROOSEVELT STREET	ARTERIAL	36+43 – 61+99	55 MPH	45 MPH



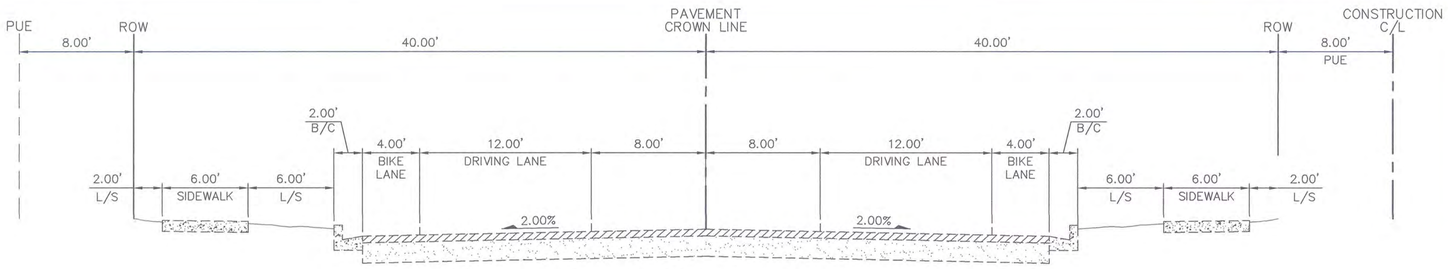
PAVEMENT STRUCTURAL SECTION #1

NTS

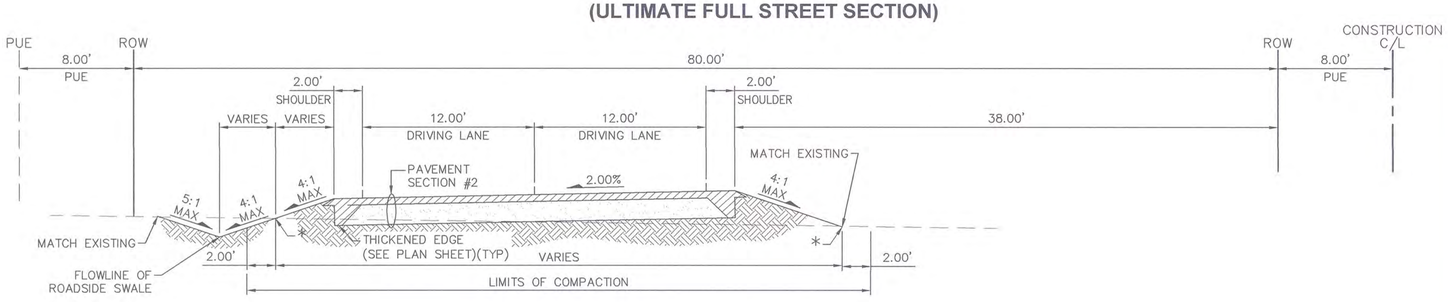


PAVEMENT STRUCTURAL SECTION #2

NTS



(ULTIMATE FULL STREET SECTION)



211TH AVENUE SOUTH OF MCDOWELL ROAD

STA 56+32 TO STA 62+44
LOOKING NORTH
NTS

* LIMITS OF ROADWA E CAVATION

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
TYPICAL SECTIONS

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
Date Signed 12/11/17
ARIZONA, U.S.A.
EXPIRES 03/31/2018

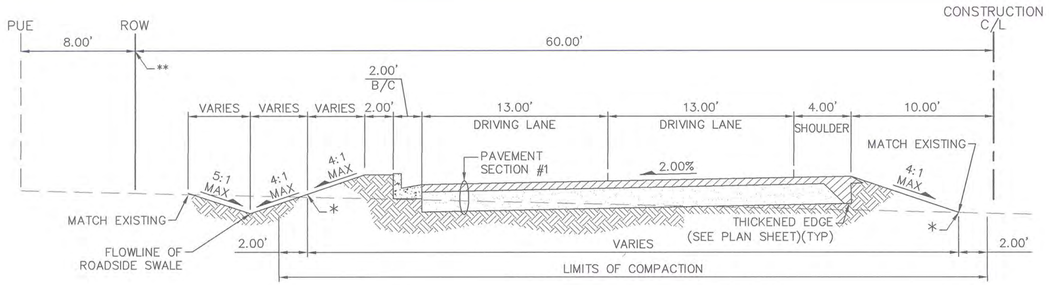
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER	
2014-071	T01	06 OF 125

SUBMITTAL: 3RD SUBMITTAL
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

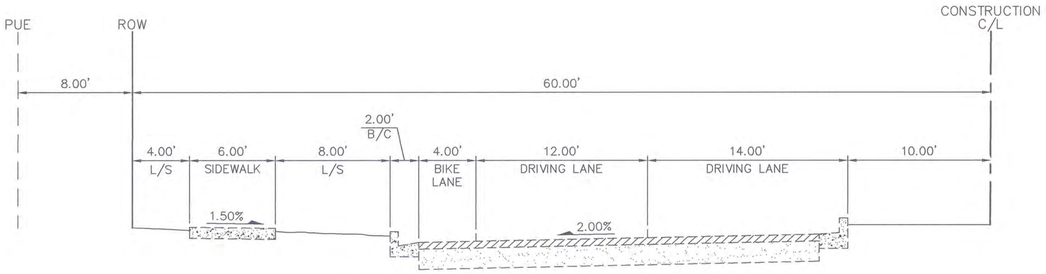
PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 – City of Buckeye Engineering Services RSID\CAD Files\Sheets\06–215035–TX01.dwg



VAN BUREN STREET

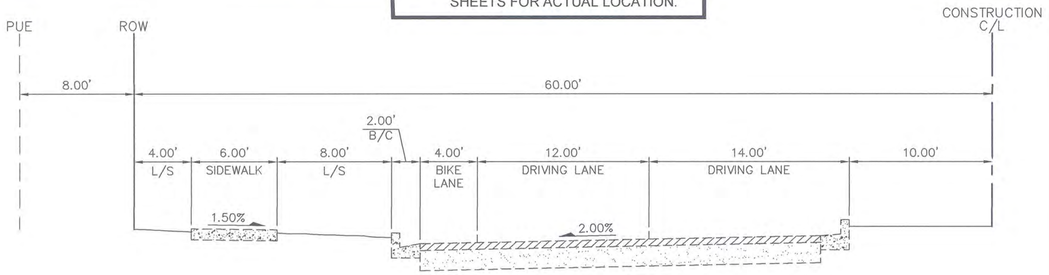
STA 20+86 TO STA 46+45
(LOOKING EAST)
NTS



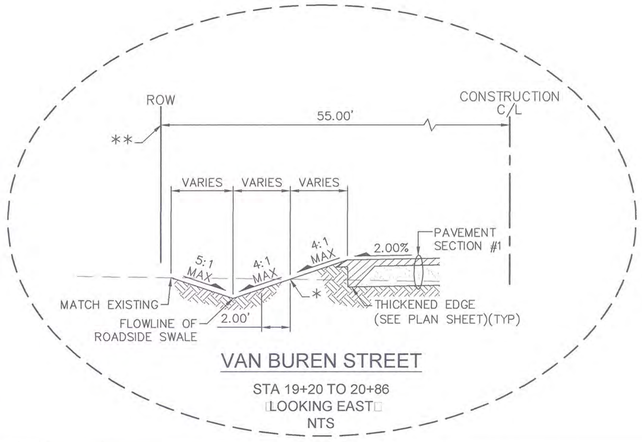
(ULTIMATE HALF STREET SECTION)

* LIMITS OF ROADWAY EXCAVATION

NOTE: ROW INDICATES PUBLIC RIGHT-OF-WAY OR ROADWAY EASEMENT. REFER TO CONTROL SHEETS FOR ACTUAL LOCATION.

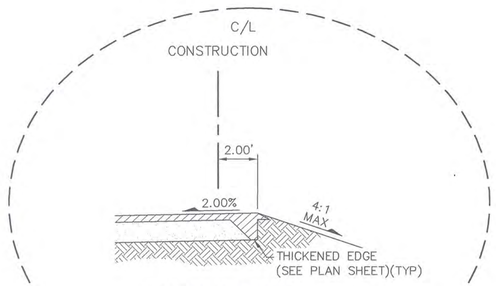


(ULTIMATE HALF STREET SECTION)



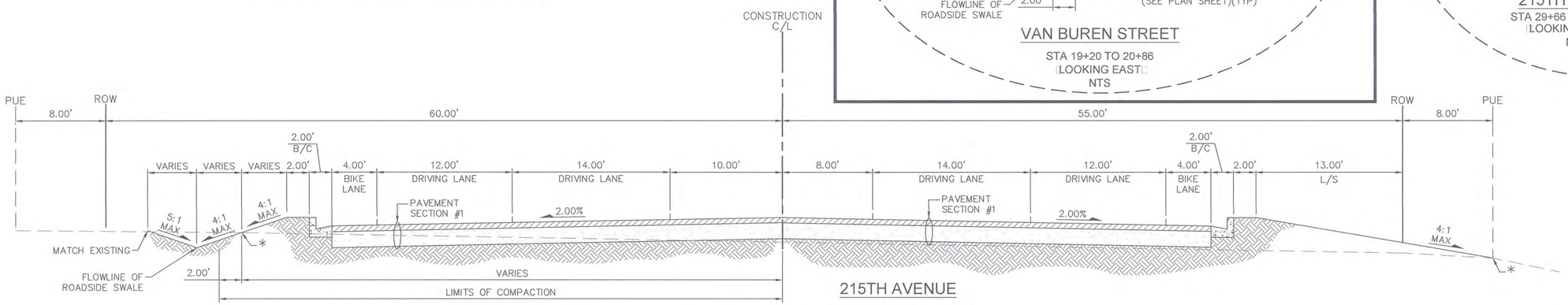
VAN BUREN STREET

STA 19+20 TO 20+86
(LOOKING EAST)
NTS



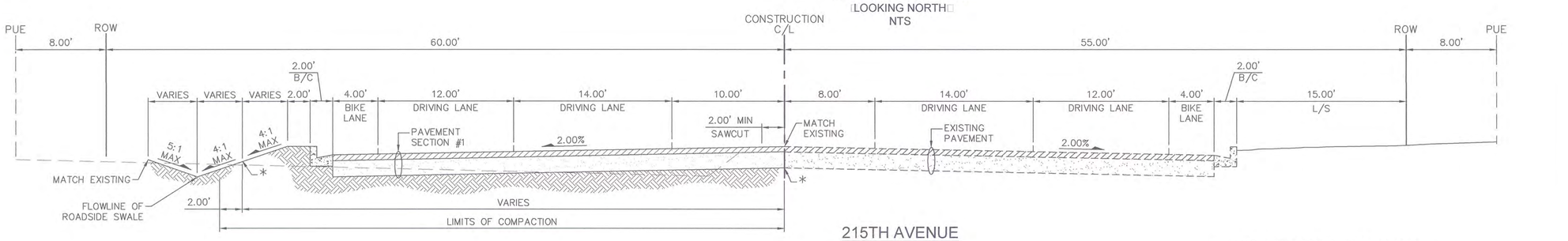
215TH AVENUE

STA 29+66 TO STA 36+02
(LOOKING NORTH)
NTS



215TH AVENUE

STA 24+68 TO STA 29+66
(LOOKING NORTH)
NTS



215TH AVENUE

STA 10+87 TO STA 36+02
(LOOKING NORTH)
NTS

* LIMITS OF ROADWAY EXCAVATION

** EXISTING ROW AND PUE STARTS FROM STA 20+00 TO 20+86

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
TYPICAL SECTIONS

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

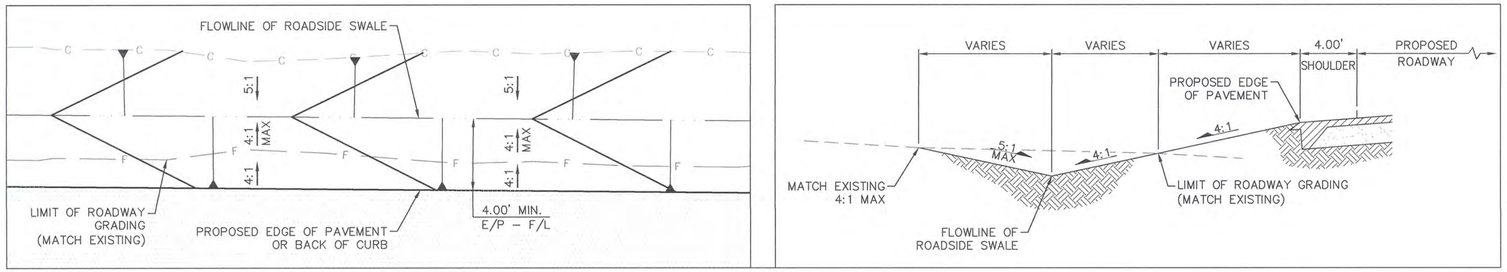
COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE	
12-27-2016	12-11-17	
PROJECT NUMBER	SHEET NUMBER	
2014-071	T-02	07 OF 125

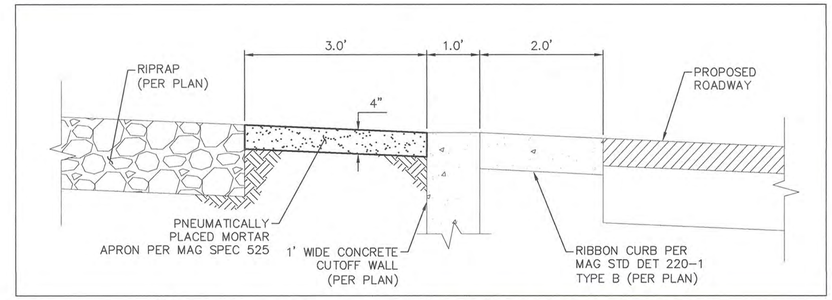
PLOT DATE: Dec 14, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\07-215035-TX02.dwg



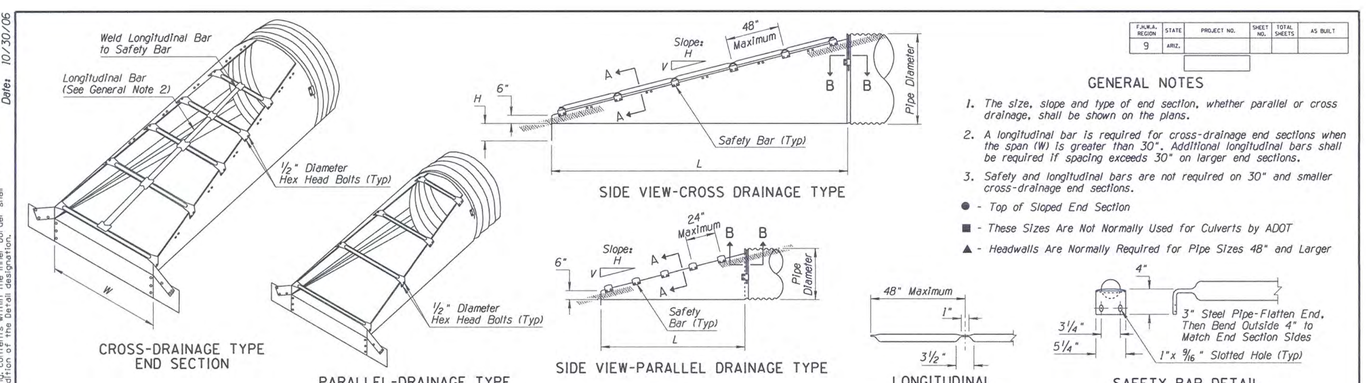
1 TYPICAL ROADSIDE SWALE DETAIL

NTS



6 PNEUMATICALLY PLACED MORTAR APRON DETAIL

NTS



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				

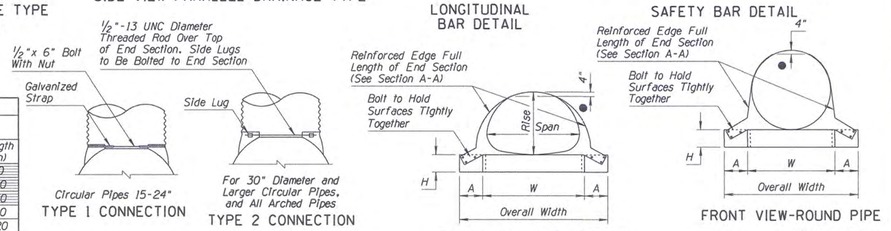
GENERAL NOTES

1. The size, slope and type of end section, whether parallel or cross drainage, shall be shown on the plans.
2. A longitudinal bar is required for cross-drainage end sections when the span (W) is greater than 30". Additional longitudinal bars shall be required if spacing exceeds 30" on larger end sections.
3. Safety and longitudinal bars are not required on 30" and smaller cross-drainage end sections.

● - Top of Sloped End Section

■ - These Sizes Are Not Normally Used for Culverts by ADOT

▲ - Headwalls Are Normally Required for Pipe Sizes 48" and Larger



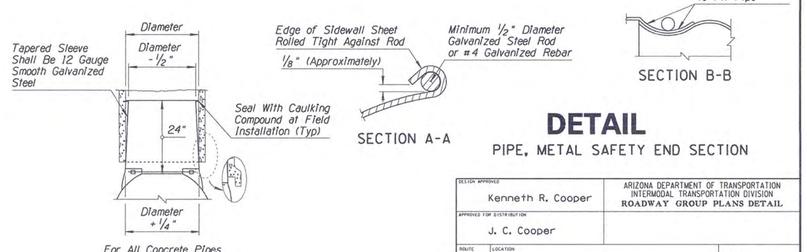
METAL END SECTION FOR CIRCULAR PIPES

Pipe Diameter (In)	Minimum Thickness In	Minimum Thickness Gauge	Dimensions (In) A	H	W	Overall Width	L Dimensions Slope H:V	Length (In)	Slope H:V	Length (In)	Slope H:V	Length (In)
15 ■	.064	16	8	6	21	37	4:1	20	6:1	30	10:1 ◪	70
18 ■	.064	16	8	6	24	40	4:1	32	6:1	48	10:1 ◪	100
21 ■	.064	16	8	6	27	43	4:1	44	6:1	66	10:1 ◪	130
24	.064	16	8	6	30	46	4:1	56	6:1	84	10:1 ◪	160
30	.109	12	12	9	36	60	4:1	80	6:1	120	10:1 ◪	220
36	.109	12	12	9	42	66	4:1	104	6:1	156	10:1 ◪	280
42	.109	12	16	12	48	80	4:1	128	6:1	192	-	-
48 ▲	.109	12	16	12	54	86	4:1	152	6:1	228	-	-
54 ▲	.109	12	16	12	60	92	4:1	176	6:1	264	-	-
60 ▲	.109	12	16	12	66	98	4:1	200	6:1	300	-	-

◪ Minimum Thickness For All 10:1 Slope End Sections Is 12 Guage

METAL END SECTION FOR ARCHED PIPES

Equivalent Diameter (In)	(Inches) Span	Rise	Minimum Thickness In	Gauge	Dimensions (In) A	H	W	Overall Width	L Dimensions Slope H:V	Length (In)	Slope H:V	Length (In)	Slope H:V	Length (In)
18 ■	21	15	.064	16	8	6	27	43	4:1	20	6:1	30	10:1 ◪	70
21 ■	24	18	.064	16	8	6	30	46	4:1	32	6:1	48	10:1 ◪	100
24	28	20	.064	16	8	6	34	50	4:1	40	6:1	60	10:1 ◪	120
30	35	24	.079	14	12	9	41	65	4:1	56	6:1	84	10:1 ◪	160
36	42	29	.109	12	12	9	48	72	4:1	76	6:1	114	10:1 ◪	210
42	49	33	.109	12	16	12	55	87	4:1	92	6:1	138	-	-
48 ▲	57	38	.109	12	16	12	63	95	4:1	112	6:1	168	-	-
54 ▲	64	43	.109	12	16	12	70	102	4:1	132	6:1	198	-	-
60 ▲	71	47	.109	12	16	12	77	109	4:1	149	6:1	222	-	-
72 ▲	83	57	.109	12	16	12	89	121	4:1	188	6:1	282	-	-



DETAIL

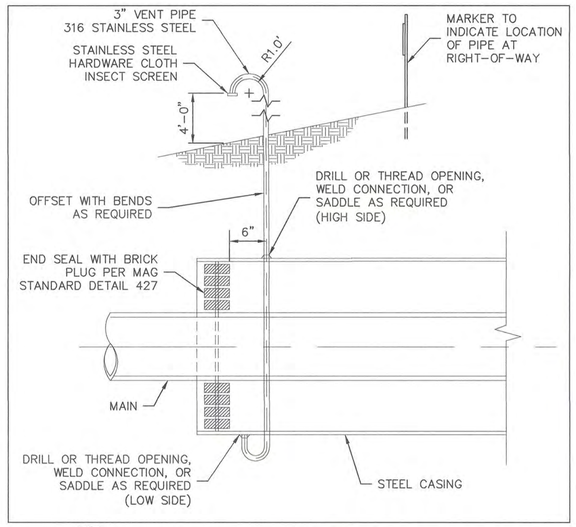
PIPE, METAL SAFETY END SECTION

DESIGN APPROVED	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY GROUP PLANS DETAIL
Kenneth R. Cooper	
APPROVED FOR DISTRIBUTION: J. C. Cooper	
ROUTE / LOCATION	SHEET ___ OF ___
TRACS NO.	

C:\ADOT_V8\ROADWAY\users\sl428\ 9:46:50 AM 2/19/2009 C:\ADOT_V8\Roadway\Dev\details\x1971.dgn

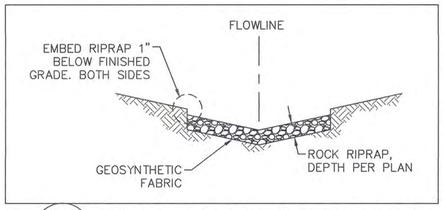
3 ADOT STORM DRAIN SAFETY END SECTION

NTS



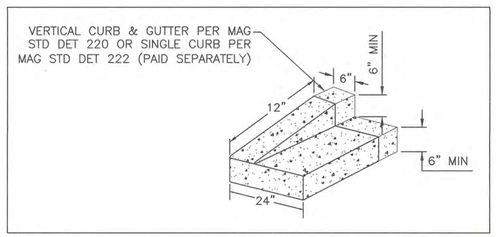
4 JACK AND BORE CASING VENT DETAIL

NTS



5 RIPRAP DETAIL (ALL LOCATIONS)

NTS



2 CURB AND GUTTER TERMINATION DETAIL

NTS

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

DETAIL SHEET

ENGINEER INFORMATION: RITOCH-POWELL & Associates, 602-263-1177, WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL: APPROVED JAN 17 2018 CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL: 23232 PETER H. HEMINGWAY, ARIZONA, U.S.A., EXPIRES 03/31/2018

COB PLAN TRACKING #: ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER	SHEET NUMBER
2014-071	DT01 — 08 OF 125

NO.	DESCRIPTION OF REVISIONS	MADE BY	DATE
1	MINOR GRAPHICAL REVISIONS	RLF	7/05
2	REVISED NOTE TO DESIGNER	RLF	10/06
3			
4			

For use of this Detail X1971.dgn, see Design Memo at http://www.azdot.gov/highways/Roadway/Eng/Roadway0esign/design_memos/index.asp

The information presented in this Roadway Plans Detail is for general use. Designers are responsible for the proper application of the information. Contents within the inner border shall not be altered, except for the addition of the Detail designation.

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 – City of Buckeye Engineering Services RSID\CAD Files\Sheets\08-215035-DT01.dwg

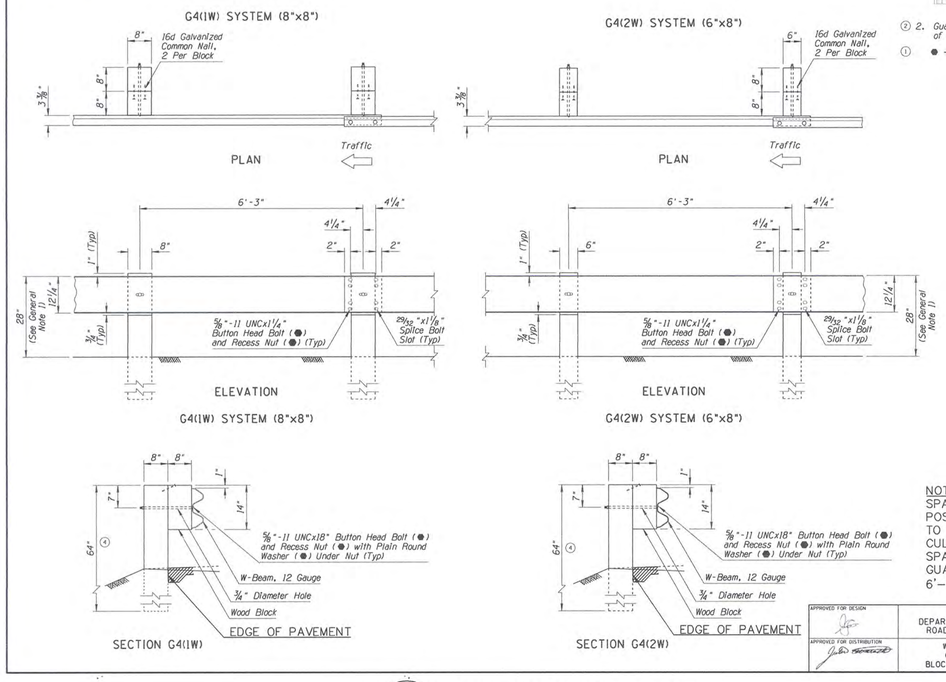
NO	DESCRIPTION OF REVISIONS	MADE BY	DATE
1	REVISED DESIGNATION	RLF	9/04
2	REVISED GENERAL NOTE 1 & ADDED GENERAL NOTE 2	RLF	9/04
3	RENAMED STD DRAWING FROM C-10.20 AND REVISED TITLE	RLF	9/04
4	REMOVED 29 INCH DIMENSION	RLF	1/05

GENERAL NOTES

② 1. The control height for guardrail system is 28" to the top of rail, measured at the face of rail from d.

② 2. Guardrail shall be lapped in the direction of adjacent traffic.

① ● - Indicates AASHTO, AGC & ARTBA Task Force 13 Report designation



NOTE:
SPACING OF GUARDRAIL POSTS SHALL BE ADJUSTED TO ELIMINATE CONFLICTS WITH CULVERT PIPES. ADJUSTED SPACING SHALL NOT EXCEED GUARDRAIL POST SPACING OF 6'-3" AS SHOWN ON DETAIL.

APPROVED FOR DESIGN	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY STANDARD DRAWINGS	REV. 5/12
APPROVED FOR DISTRIBUTION	W-BEAM GUARDRAIL G4(1W) AND G4(2W) BLOCKED-OUT TIMBER POST ③	DRAWING NO. C-10.03 ③

7 ADOT GUARDRAIL DETAIL
NTS

Date: 6/06/11

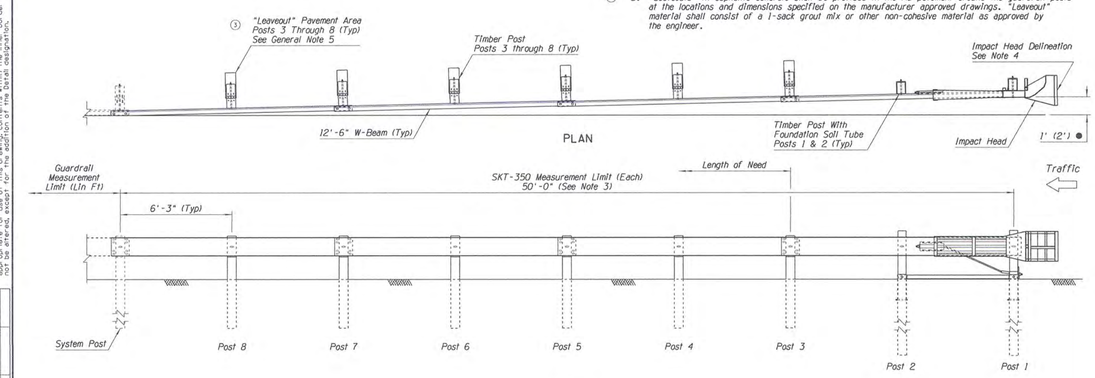
● FOR ELEVATIONS ABOVE 4,000', USE THE VALUES IN PARENTHESES

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.				

GENERAL NOTES

1. This detail is for roadway layout only.
2. The SKT-350 shall be installed in accordance with the manufacturer's specifications and current approved drawings including all details, hardware, hardware quantities, and other information.

   The current manufacturer's approved drawing is number SKT-W-2US-AZ, 06/04/11. Visit the Roadway Design web site to view and print the drawing.
3. The 50' W-Beam length shall consist of four 12'-6" sections, the end section being a proprietary split rail.
4. See specifications and Traffic Signing and Marking Standard Drawings.
5. ③ "Leaveouts" in asphaltic concrete shall be provided in the AC pavement around the guardrail posts at the locations and dimensions specified on the manufacturer approved drawings. "Leaveout" material shall consist of a 1-sack grout mix or other non-cohesive material as approved by the engineer.



Note to Designer:
The information presented in this Roadway Plans Detail is for general use. The Roadway Plans Detail may not fit all conditions encountered. Designers should satisfy themselves that their project site conditions are fully addressed by this detail. Modifications to the detail should not be entered, except for the addition of the detail designation.

NO	DESCRIPTION OF REVISIONS	MADE BY	DATE
1	REISSUED DRAWING WITH MODIFIED APPROACH TAPER	RLF	5/22/09
2	REVISED APPROACH TAPER CRITERIA	RLF	1/29/09
3	REVISED LAYOUT & ADDED SECTION VIEWS	RLF	12/08
4	ADDED "LEAVEOUT" DETAIL	RLF	6/06/11
5	ADDED "LEAVEOUT" CALLOUT & NEW GENERAL NOTE 5	RLF	6/06/11

DETAIL
Sheet 1 of 2
LAYOUT FOR SKT-350
2 FOUNDATION SOIL TUBES ①
(AC PAVEMENT)

DESIGN APPROVED	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY GROUP PLANS DETAIL
J.C. Cooper	
APPROVED FOR DISTRIBUTION: Mary Viparina	
ROUTE / LOCATION	SHEET OF
TRACS NO.	___ OF ___

7a ADOT GUARDRAIL END SECTION DETAIL
NTS

V:\Roadway\users\al428\ 8:41:41 AM 4/28/2015 V:\Roadway\Dev.V8i\details\xl8401.dgn

NORMAL.TBL

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\09-215035-DT02.dwg

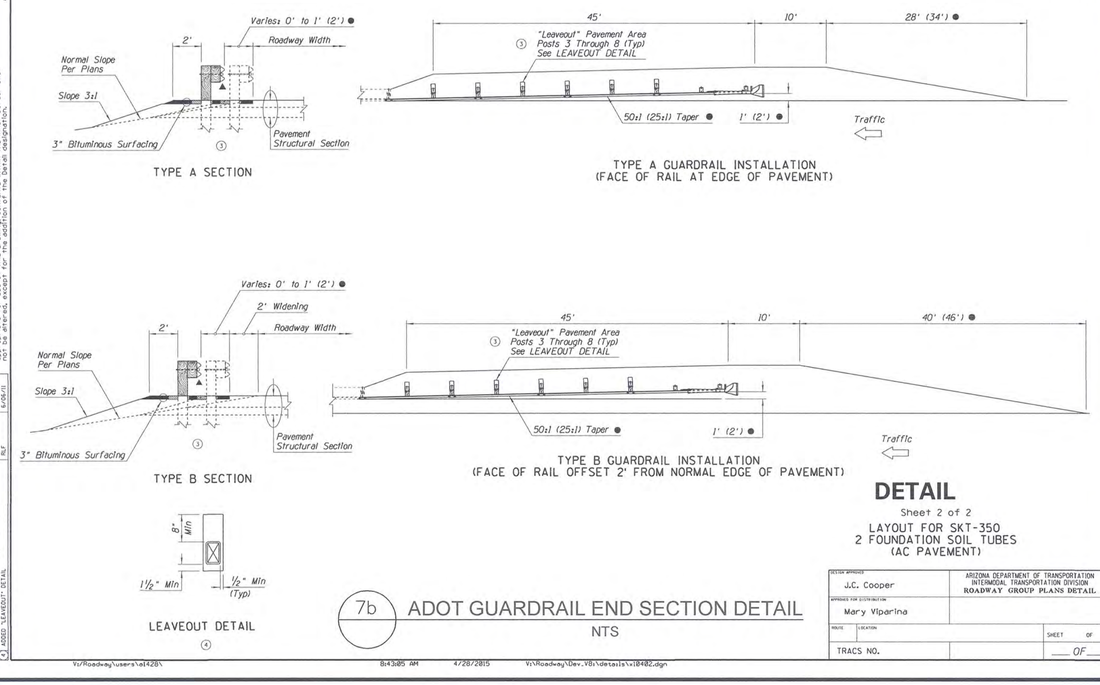
PLOT DATE: Dec 13, 2017

Date: 6/06/11

● FOR ELEVATIONS ABOVE 4,000 FT, USE THE VALUES IN PARENTHESES

▲ Top of Rail = 28" See General Note 1 Std Dwg C-10.03

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.				



Note to Designer:
The information presented in this Roadway Plans Detail is for general use. The Roadway Plans Detail may not fit all conditions encountered. Designers should satisfy themselves that their project site conditions are fully addressed by this detail. Modifications to the detail should not be entered, except for the addition of the detail designation.

NO	DESCRIPTION OF REVISIONS	MADE BY	DATE
1	REISSUED DRAWING WITH MODIFIED APPROACH TAPER	RLF	5/22/09
2	REVISED APPROACH TAPER CRITERIA	RLF	1/29/09
3	REVISED LAYOUT & ADDED SECTION VIEWS	RLF	12/08
4	ADDED "LEAVEOUT" DETAIL	RLF	6/06/11

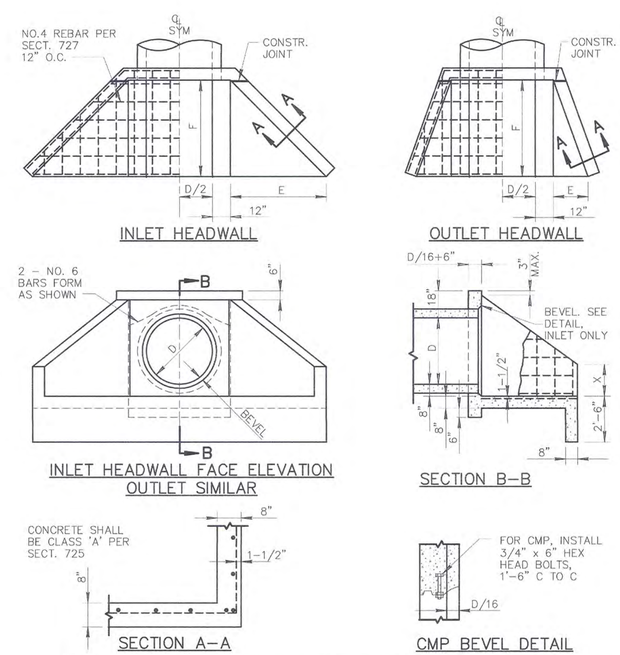
DETAIL
Sheet 2 of 2
LAYOUT FOR SKT-350
2 FOUNDATION SOIL TUBES
(AC PAVEMENT)

DESIGN APPROVED	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY GROUP PLANS DETAIL
J.C. Cooper	
APPROVED FOR DISTRIBUTION: Mary Viparina	
ROUTE / LOCATION	SHEET OF
TRACS NO.	___ OF ___

7b ADOT GUARDRAIL END SECTION DETAIL
NTS

V:\Roadway\users\al428\ 8:43:05 AM 4/28/2015 V:\Roadway\Dev.V8i\details\xl8402.dgn

NORMAL.TBL



1:4 EMBANKMENT SLOPE				
D	TYPE *	DIMENSIONS		
		F	E	X
18"	1 (IN)	8'-8"	8'-8"	1'-0"
18"	1 (OUT)	6'-0"	2'-2"	1'-0"
24"	2 (IN)	10'-8"	10'-8"	1'-0"
24"	2 (OUT)	10'-8"	3'-3"	1'-0"

MODIFICATION NOTE:
1:4 EMBANKMENT SLOPE TABLE MODIFIED PER THIS DETAIL. SEE MAG 501-3 DETAIL FOR ALL OTHER DIMENSIONS AND CALLOUTS.

8 MAG 501-3 MODIFIED HEADWALL 18" TO 24" PIPE
NTS

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT

DETAIL SHEET

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

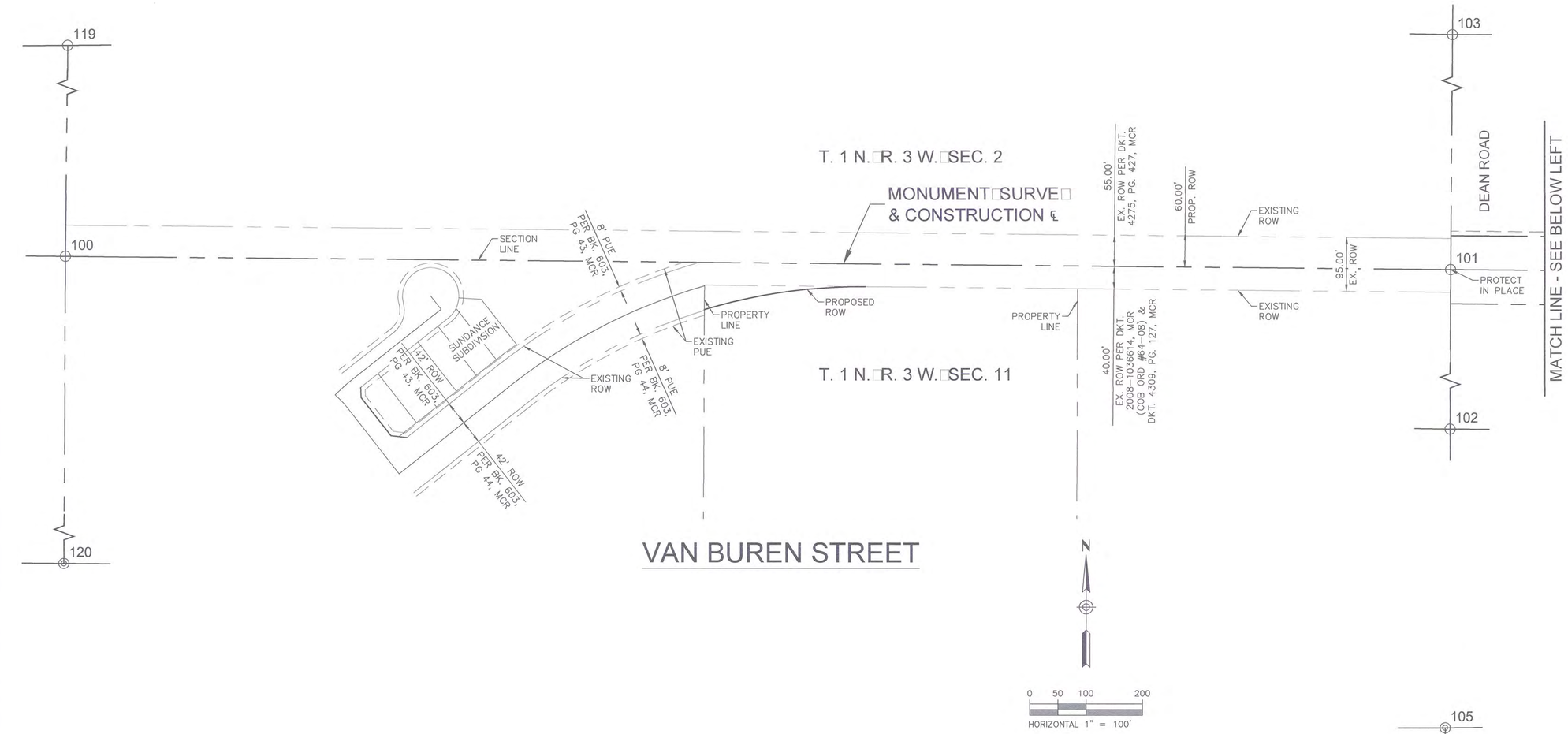
DESIGN SEAL
23232 PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

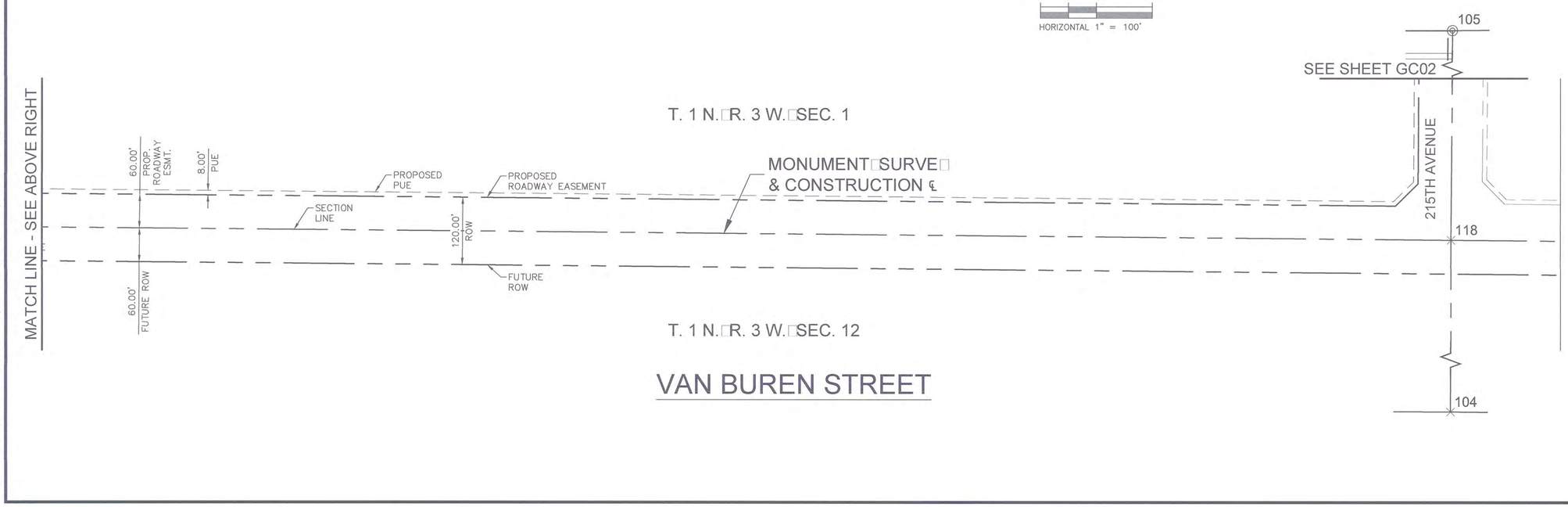
SUBMITTAL: 3RD SUBMITTAL

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER	SHEET NUMBER
2014-071	DT02

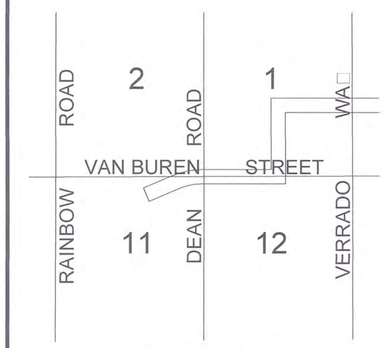
COB PLAN TRACKING # ENG-16-00003

COB PERMIT #





CONTROL POINT COORDINATE DATA				
REF NO	NORTHING	EASTING	ELEV	DESC
100	892021.2473	512886.2463	1127.07	1/2" SSTL METAL ROD
101	891995.2925	515532.8515	1098.05	1/2" REBAR
102	889337.8661	515523.0484	1072.57	1/2" REBAR
103	894594.9294	515555.5150	1121.52	1/2" REBAR
104	886671.4998	518163.0098	1026.78	1/2" SSTL METAL ROD
105	897215.1187	518218.2590	1117.23	BCF
118	891970.9988	518177.9025	1072.45	1/2" SSTL METAL ROD
119	897182.7251	512944.7208	1186.00	1/2" REBAR
120	886698.0937	512858.5943	1060.91	BCF



SECTION DETAIL
TOWNSHIP 1 NORTH
RANGE 3 WEST

1 INDICATES CONTROL POINT (BRASS CAP IN HAND HOLE)
2 INDICATES CONTROL POINT (ALUMINUM CAP FLUSH)
3 INDICATES CONTROL POINT (REBAR)
4 INDICATES CONTROL POINT (SSTL BAR)

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT

GEOMETRIC CONTROL SHEET

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE 12-27-2016

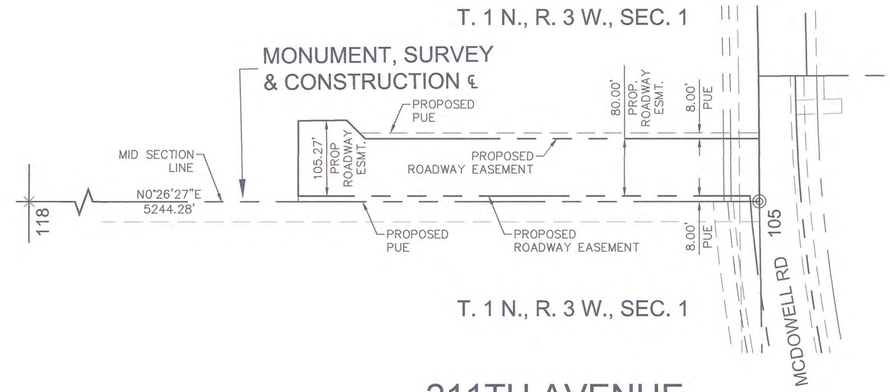
LATEST REVISION DATE 12-11-17

PROJECT NUMBER 2014-071

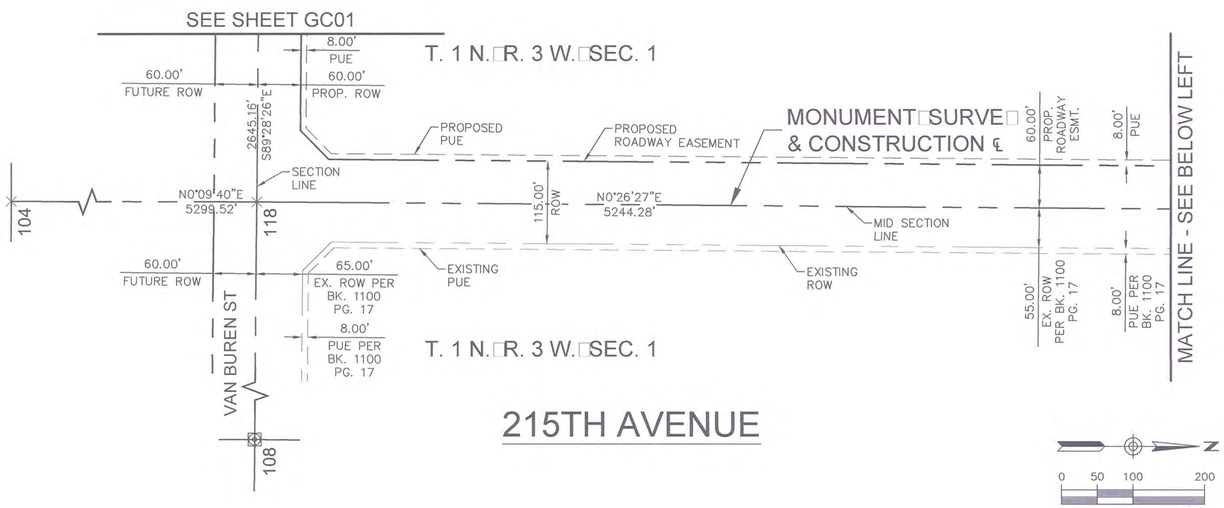
SHEET NUMBER GC01

PLOT DATE: Dec 13, 2017

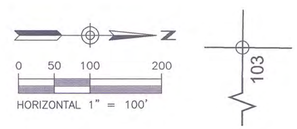
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\10-215035-GC01.dwg

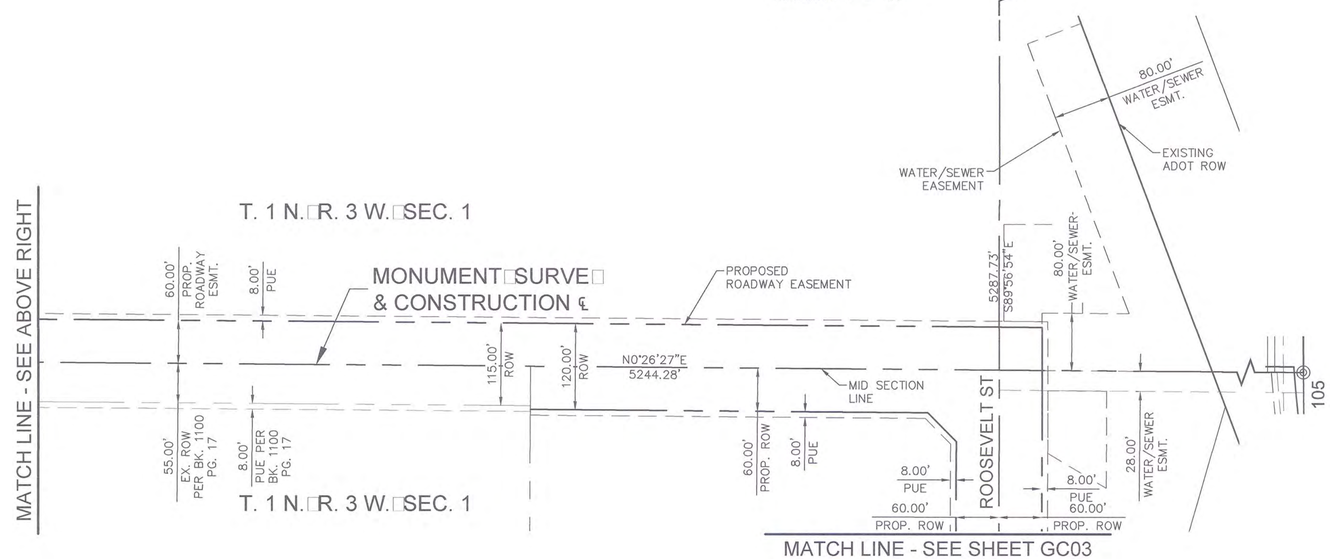


211TH AVENUE



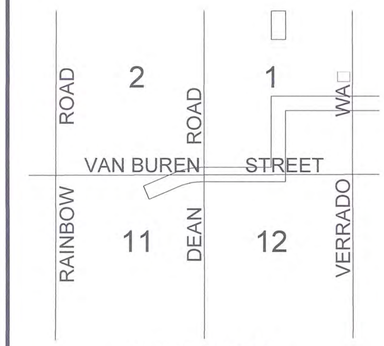
215TH AVENUE





215TH AVENUE

CONTROL POINT COORDINATE DATA				
REF NO	NORTHING	EASTING	ELEV	DESC
103	894594.9294	515555.5150	1121.52	1/2" REBAR
104	886671.4998	518163.0098	1026.78	1/2" SSTL METAL ROD
105	897215.1187	518218.2590	1117.23	BCF
108	891945.4730	520823.1695	1057.71	BCHH
118	891970.9988	518177.9025	1072.45	1/2" SSTL METAL ROD



SECTION DETAIL
TOWNSHIP 1 NORTH
RANGE 3 WEST

1 INDICATES CONTROL POINT (BRASS CAP IN HAND HOLE)
2 INDICATES CONTROL POINT (ALUMINUM CAP FLUSH)
3 INDICATES CONTROL POINT (REBAR)
4 INDICATES CONTROL POINT (SSTL BAR)

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT

GEOMETRIC CONTROL SHEET

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
Date Signed 12/11/17
ARIZONA, U.S.A.
EXPIRES 03/31/2018

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER 2014-071	SHEET NUMBER GC02

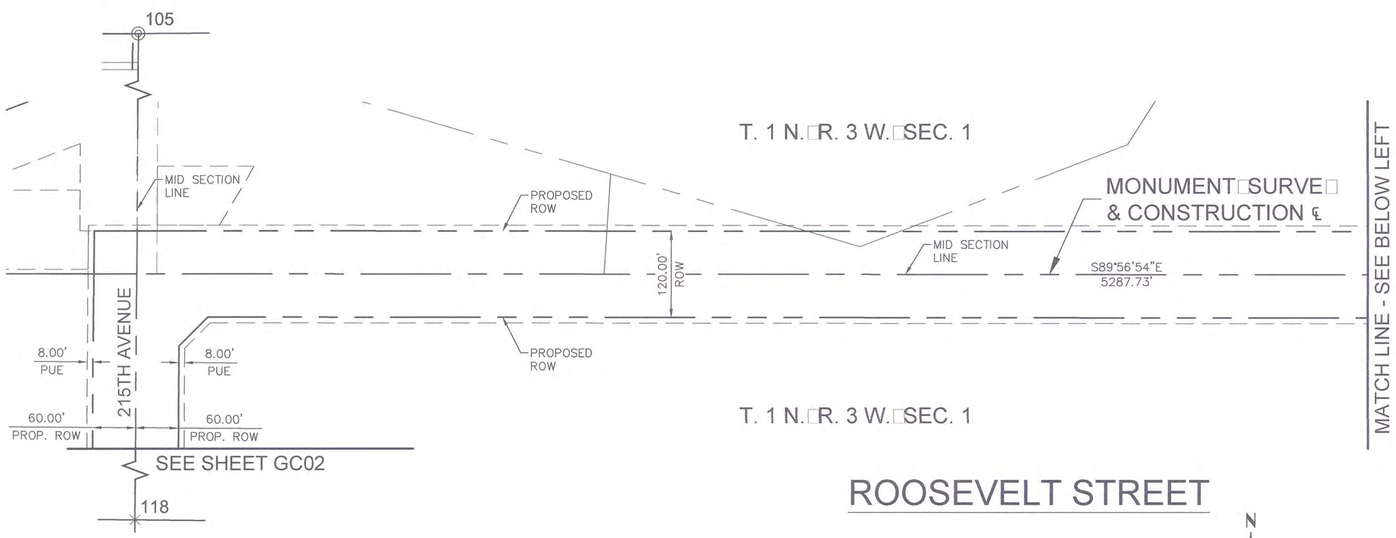
SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

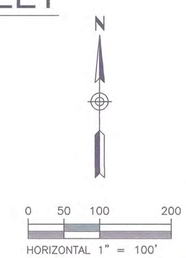
COB PERMIT #

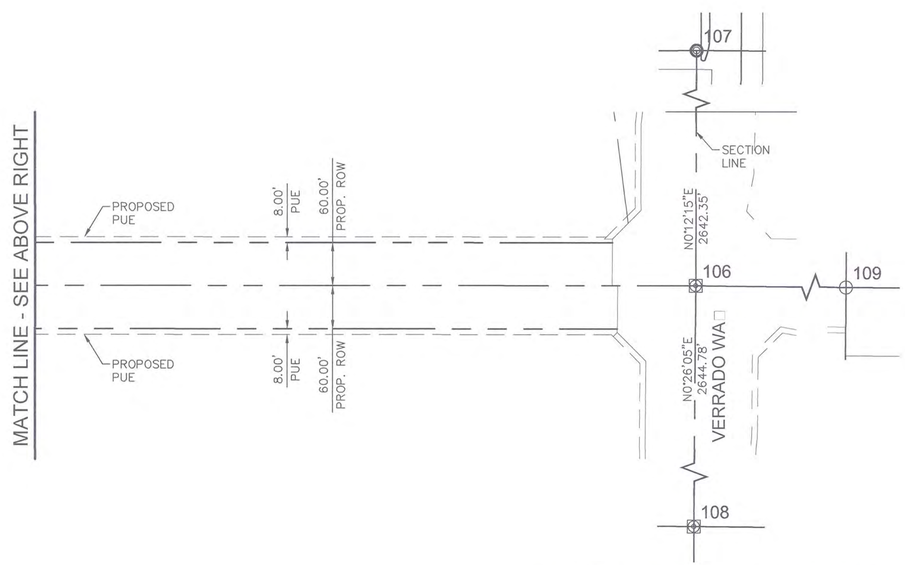
PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 – City of Buckeye Engineering Services RSID\CAD Files\Sheets\11-215035-GC02.dwg



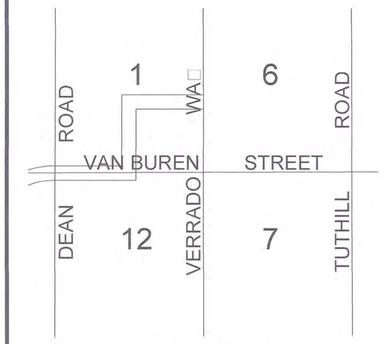
ROOSEVELT STREET





ROOSEVELT STREET

CONTROL POINT COORDINATE DATA				
REF NO	NORTHING	EASTING	ELEV	DESC
105	897215.1187	518218.2590	1117.23	BCF
106	894590.1739	520843.2417	1078.56	BCHH TOB PT 1014
107	897232.5046	520852.6528	1107.57	BCF
108	891945.4730	520823.1695	1057.71	BCHH
109	894564.6771	523327.5569	1074.49	1/2" REBAR
118	891970.9988	518177.9025	1072.45	1/2" SSTL METAL ROD



SECTION DETAIL
TOWNSHIP 1 NORTH
RANGE 3 WEST

1 INDICATES CONTROL POINT (BRASS CAP IN HAND HOLE)

2 INDICATES CONTROL POINT (ALUMINUM CAP FLUSH)

3 INDICATES CONTROL POINT (REBAR)

4 INDICATES CONTROL POINT (SSTL BAR)

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT

GEOMETRIC CONTROL SHEET

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232
PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE 12-27-2016

LATEST REVISION DATE 12-11-17

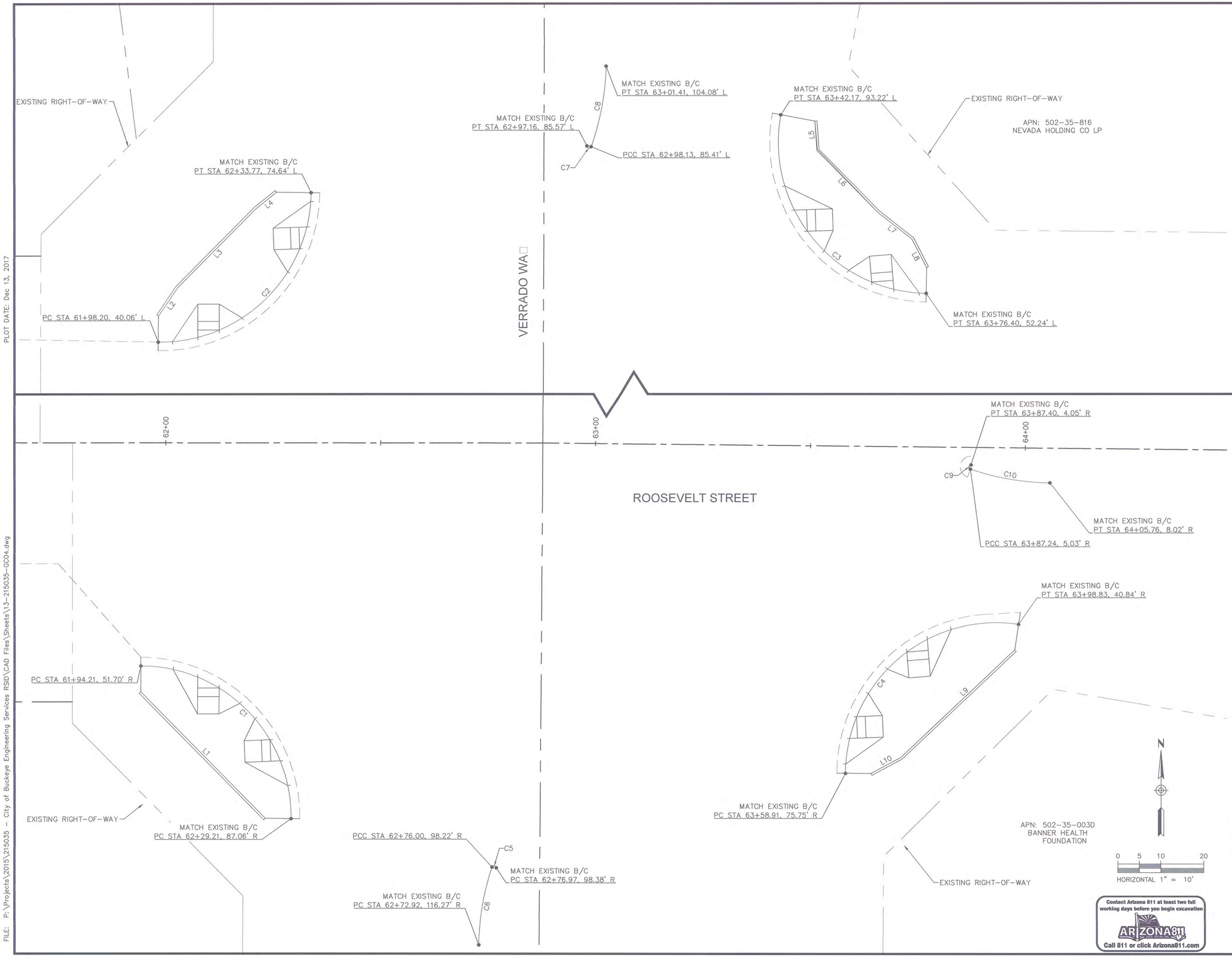
PROJECT NUMBER 2014-071

SHEET NUMBER GC03

12 OF 125

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\12-215035-GC03.dwg



PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\13-215035-GC04.dwg

LINE TABLE

LINE	BEARING	LENGTH
L1	S44°38'55"E	41.23'
L2	S34°15'49"W	7.99'
L3	S44°52'52"W	25.72'
L4	S51°38'54"W	6.15'
L5	S4°59'18"E	6.60'
L6	S43°58'29"E	20.20'
L7	S51°59'18"E	10.08'
L8	S27°37'22"E	7.43'
L9	N46°45'21"E	36.37'
L10	N61°57'35"E	7.89'

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
C1	90°36'08"	35.00'	55.35'
C2	90°15'18"	35.00'	55.13'
C3	99°24'50"	35.00'	60.73'
C4	98°29'54"	35.00'	60.17'
C5	161°52'42"	0.50'	1.41'
C6	17°41'57"	59.50'	18.38'
C7	160°14'56"	0.50'	1.40'
C8	18°20'06"	59.50'	19.04'
C9	161°41'00"	0.50'	1.41'
C10	18°08'21"	59.50'	18.84'

SYMBOL LEGEND

BACK OF CURB

EDGE OF PAVEMENT

NOTES:

1. GEOMETRIC DATA SHOWN AT BACK OF CURB AND BACK OF SIDEWALK/DRIVEWAY/RAMP.
2. SEE ROADWAY PLAN SHEETS FOR ADDITIONAL ALIGNMENT AND GEOMETRIC INFORMATION FOR PROPOSED IMPROVEMENTS.
3. STATION/OFFSET DATA INDICATED FROM ROOSEVELT STREET CONSTRUCTION CENTERLINE.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

HORIZONTAL CONTROL SHEET

ENGINEER INFORMATION

RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

23232 PETER H. HEMINGWAY
EXPIRES 03/31/2018

ORIGINAL PLAN DATE 12-27-2016

LATEST REVISION DATE 12-11-17

PROJECT NUMBER 2014-071

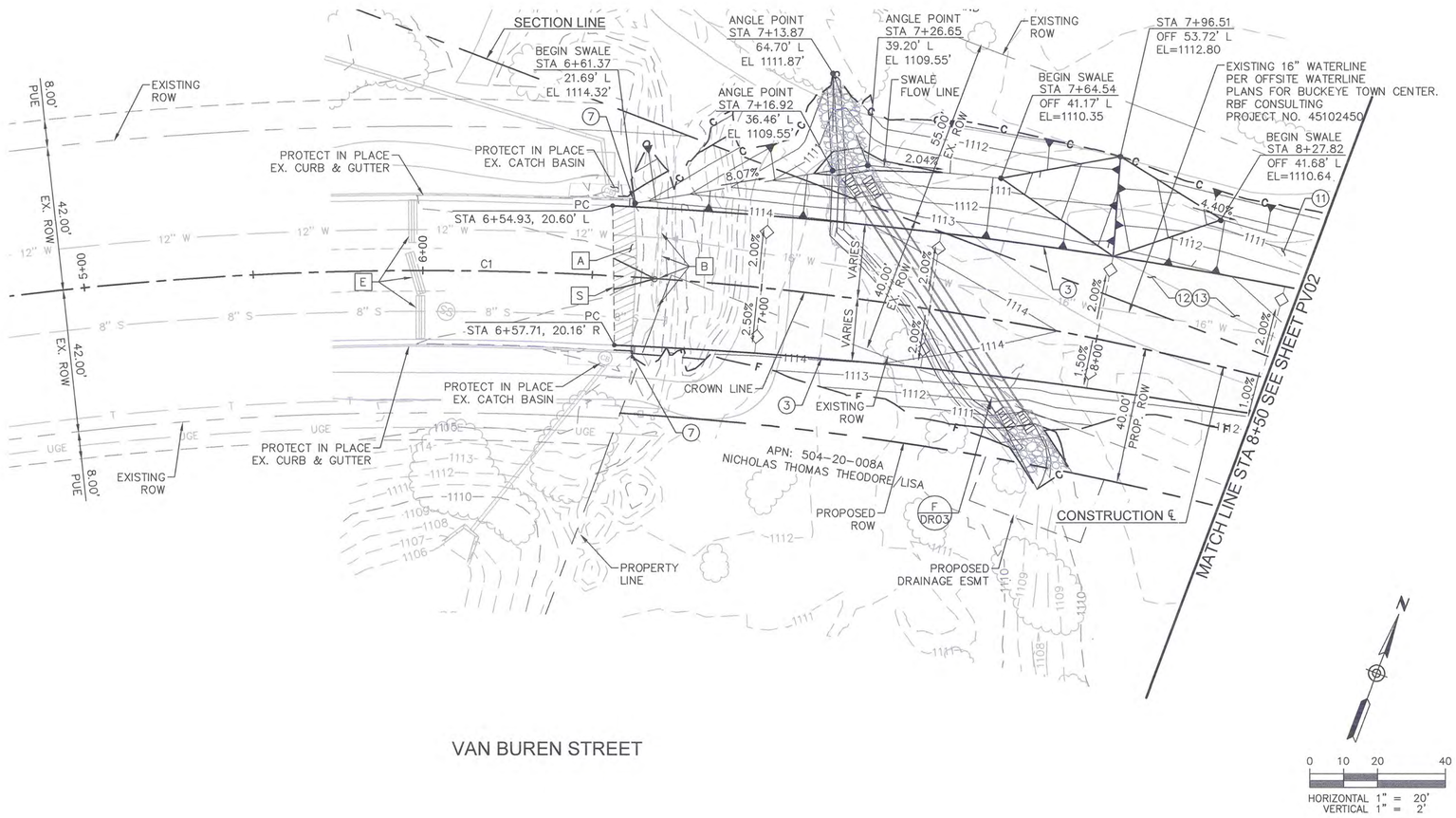
SHEET NUMBER GC04

13 OF 125

SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #



REMOVAL NOTES

NO.	DESC.	QTY	UNITS
A	REMOVE AC PAVEMENT (INCLUDES SUBGRADE/SUBBASE)	28	SY
B	REMOVE BARRICADE	27	LF
E	REMOVE TEMPORARY CONCRETE BARRIER	3	EA
S	SAWCUT 2" MINIMUM & MATCH EXISTING	41	LF

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	390	LF
7	1) CURB TERMINATION PER DETAIL SHEET DT01	2	EA
11	GRADING FOR DRAINAGE	1	LS
12	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 2	863	SY
13	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 2 (INCLUDES SUBGRADE/SUBBASE PREP)	863	SY

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
C1	38°43'18"	1000.00'	675.82'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

ROADWAY PLAN
VAN BUREN STREET
STA 3+50 TO 8+50

ENGINEER INFORMATION

RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

23232
PETER H. HEMINGWAY
Date Signed 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

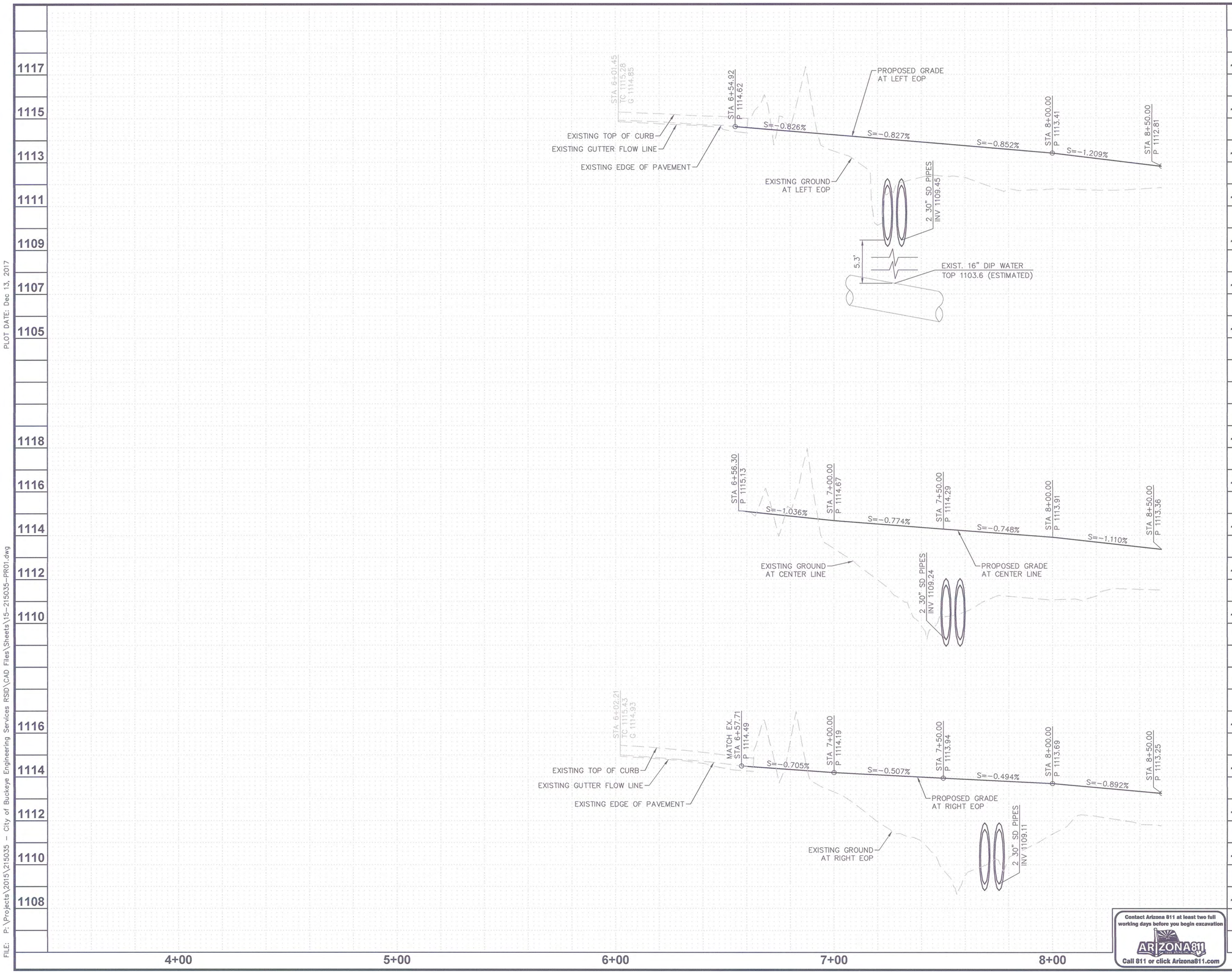
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER	SHEET NUMBER
2014-071	PV01

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\14-215035-PV01.dwg



0 10 20 40

HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

ROADWA□ PROFILE
VAN BUREN STREET
STA 3+50 TO 8+50

ENGINEER INFORMATION

RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

23232
PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

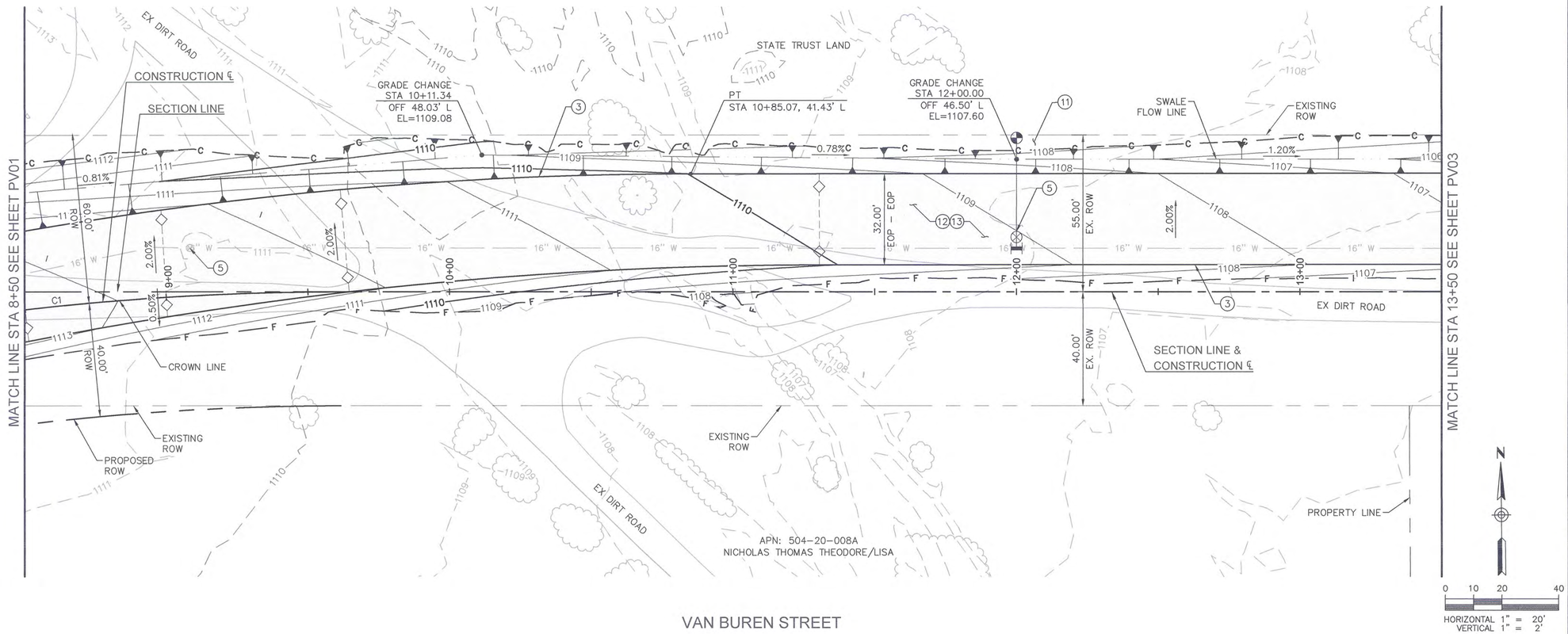
PROJECT NUMBER	SHEET NUMBER	
2014-071	PR01	15 OF 125

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\15-215035-PR01.dwg

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 – City of Buckeye Engineering Services RSID\CAD Files\Sheets\16-215035-PV02.dwg



CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	1,003	LF
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 TYPE A	1	EA
11	GRADING FOR DRAINAGE	1	LS
12	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 2	1,884	SY
13	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 2 (INCLUDES SUBGRADE/SUBBASE PREP)	1,884	SY

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
C1	6°22'33"	1000.00'	111.28'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

ROADWAY PLAN
VAN BUREN STREET
STA 8+50 TO 13+50

ENGINEER INFORMATION

RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

23232 PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

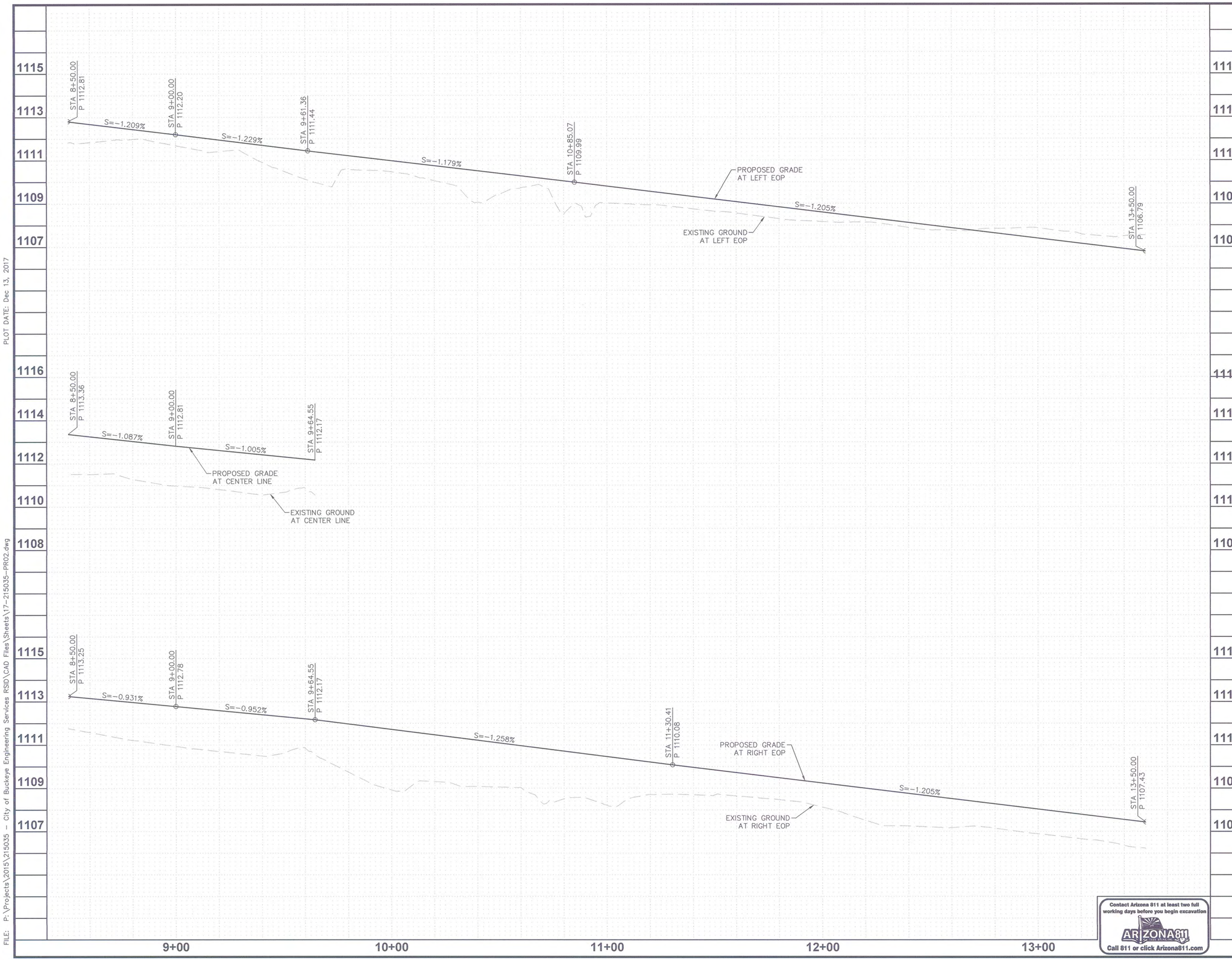
COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER	
2014-071	PV02	16 OF 125

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com



PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\17-215035-PR02.dwg

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

0 10 20 40
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PROFILE
VAN BUREN STREET
STA 8+50 TO 13+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232
PETER H. HEMINGWAY
Date Signed 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE 12-27-2016

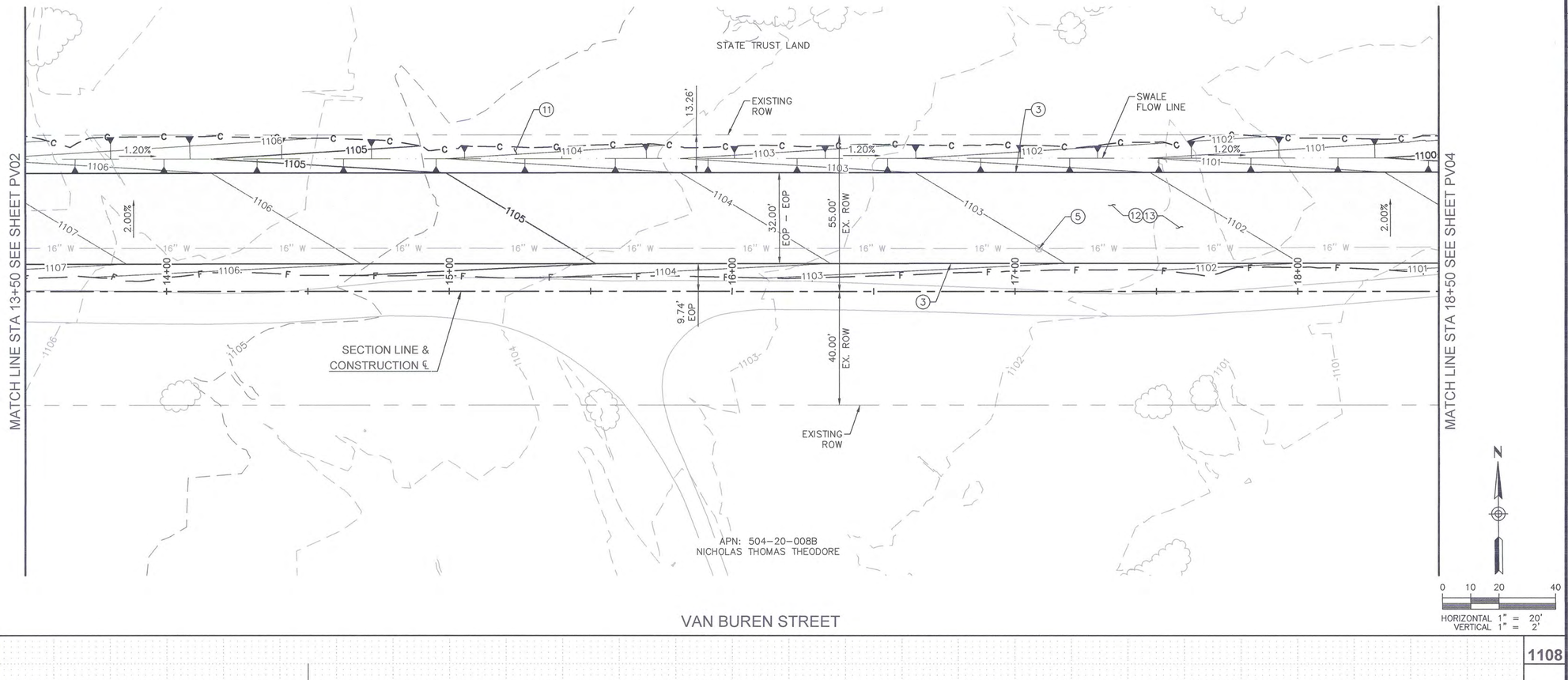
LATEST REVISION DATE 12-11-17

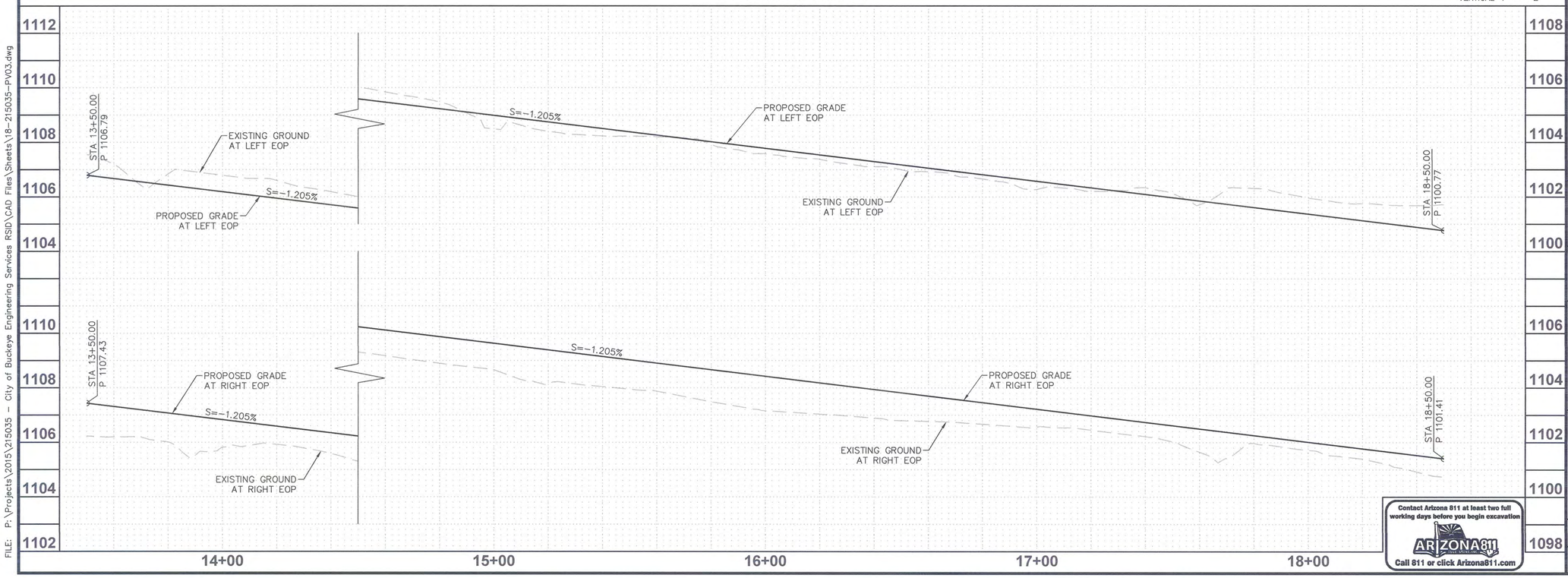
PROJECT NUMBER 2014-071

SHEET NUMBER PR02

17 OF 125

PLOT DATE: Dec 13, 2017





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	1,000	LF
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-2	1	EA
11	GRADING FOR DRAINAGE	1	LS
12	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 2	1,778	SY
13	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 2 (INCLUDES SUBGRADE/SUBBASE PREP)	1,778	SY

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
VAN BUREN STREET
STA 13+50 TO 18+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

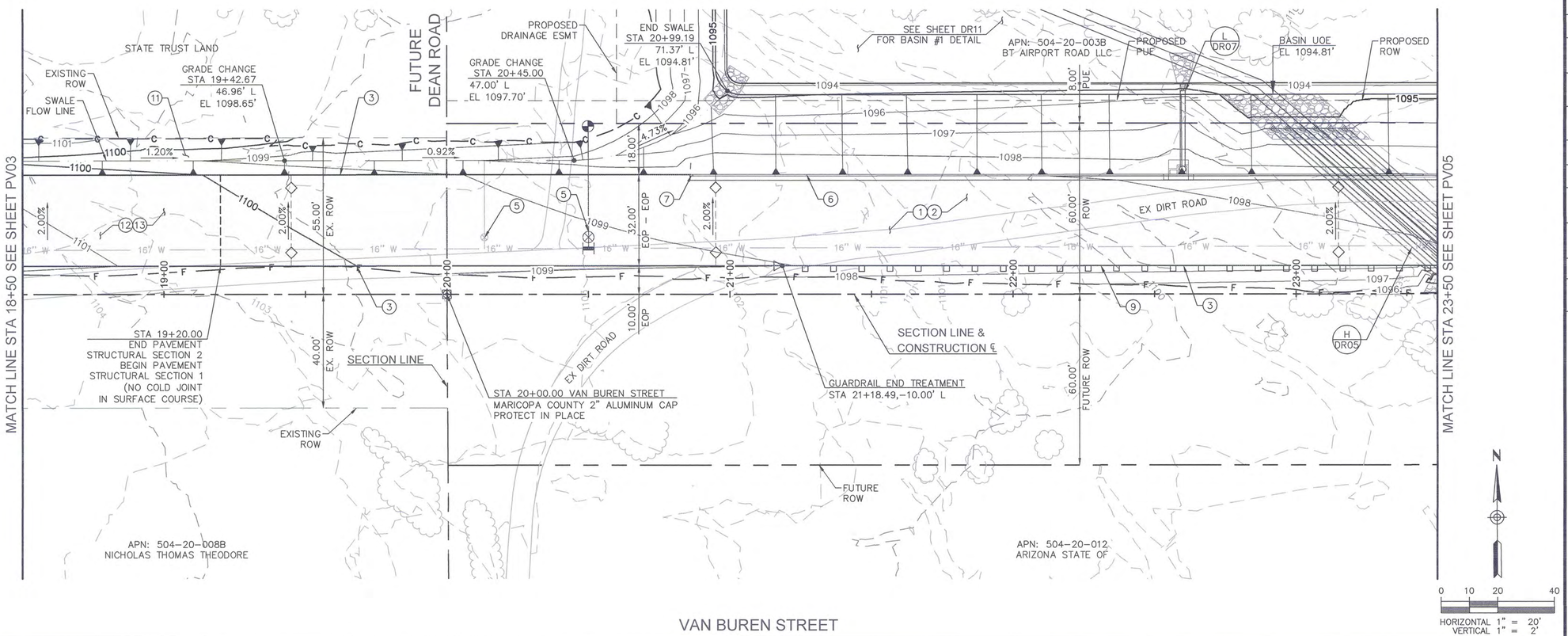
DESIGN SEAL
23232 PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
Date Signed 01/12/17
ARIZONA, U.S.A.
EXPIRES 03/31/2018

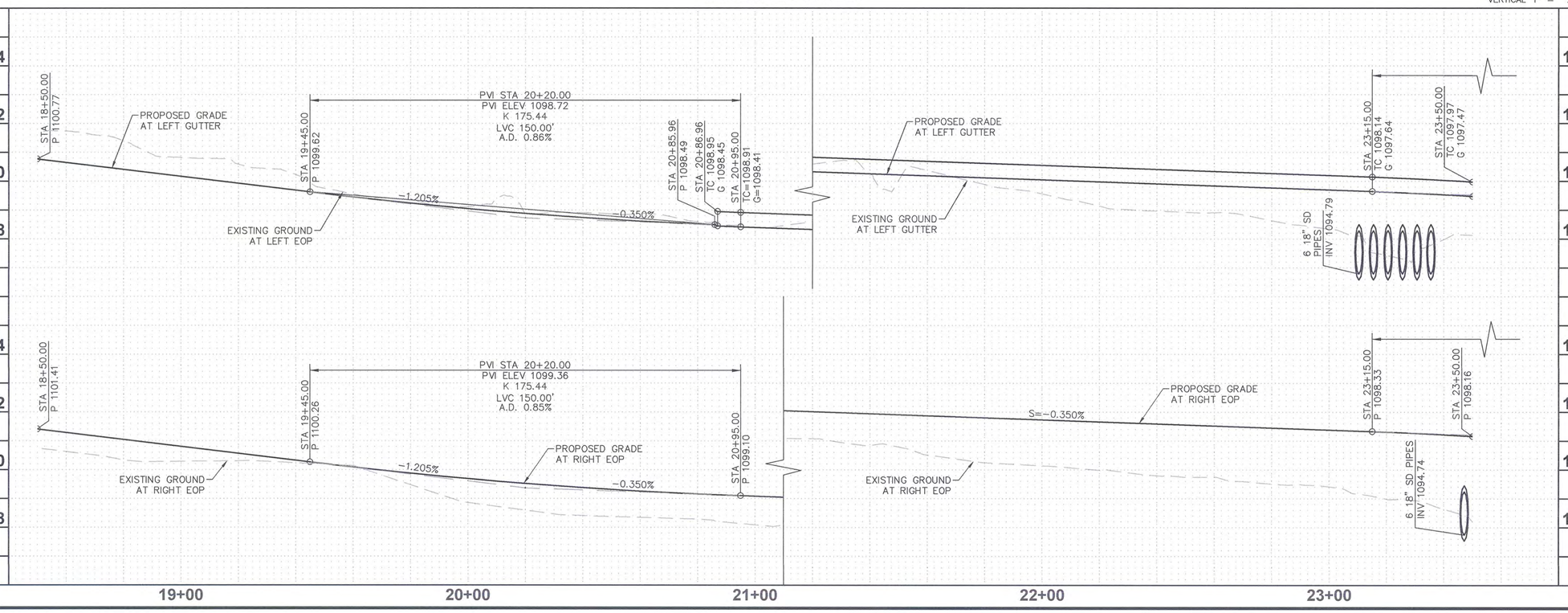
SUBMITTAL: 3RD SUBMITTAL

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER 2014-071	SHEET NUMBER PV03 — 18 OF 125

COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\18-215035-PV03.dwg





CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	880	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	880	SY
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	736	LF
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 TYPE A	2	EA
6	CURB & GUTTER PER MAG STD DET 220-1 TYPE A	264	LF
7	1% CURB TERMINATION PER DETAIL SHEET DT01	1	EA
9	GUARDRAIL PER ADOT STD DET 10.03/G4.1W (INCLUDES END TREATMENTS) SEE DETAIL SHEET DT02	232	LF
11	GRADING FOR DRAINAGE	1	LS
12	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 2	839	SY
13	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 2 INCLUDES SUBGRADE/SUBBASE PREP	839	SY

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
VAN BUREN STREET
STA 18+50 TO 23+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

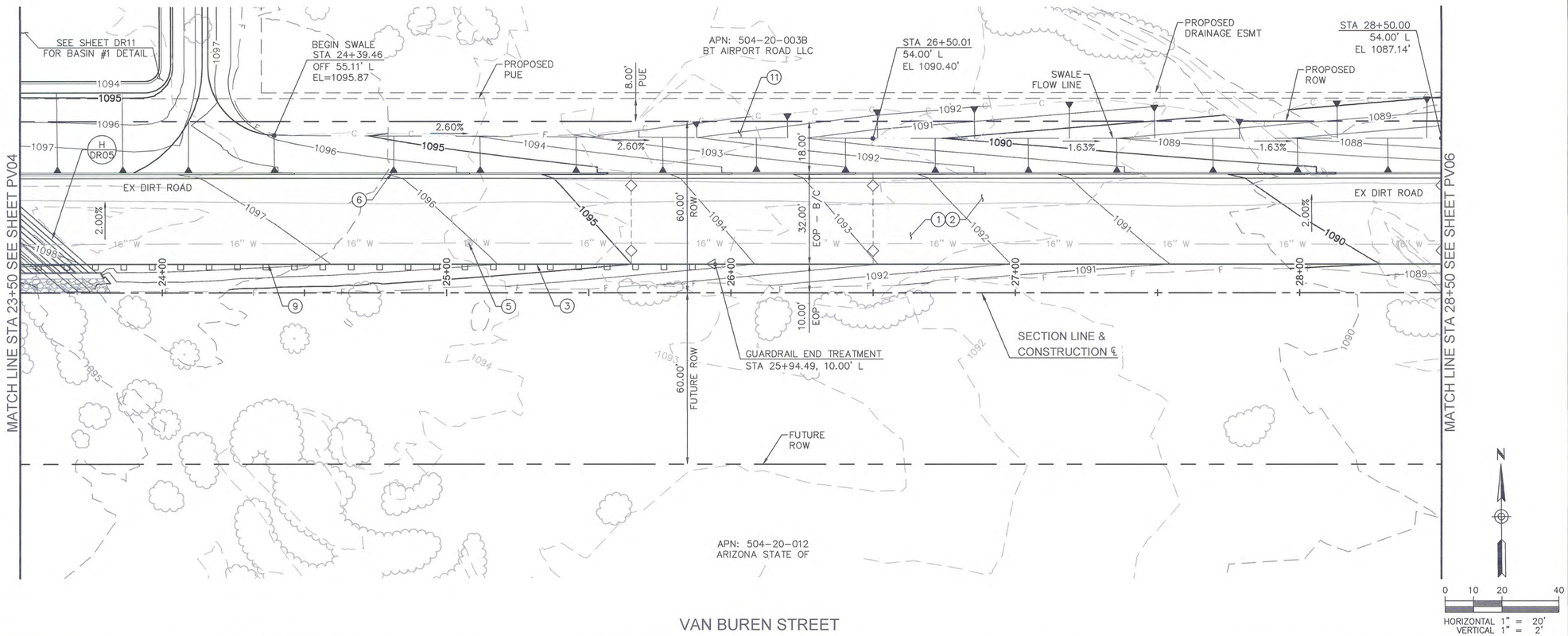
COB PERMIT #

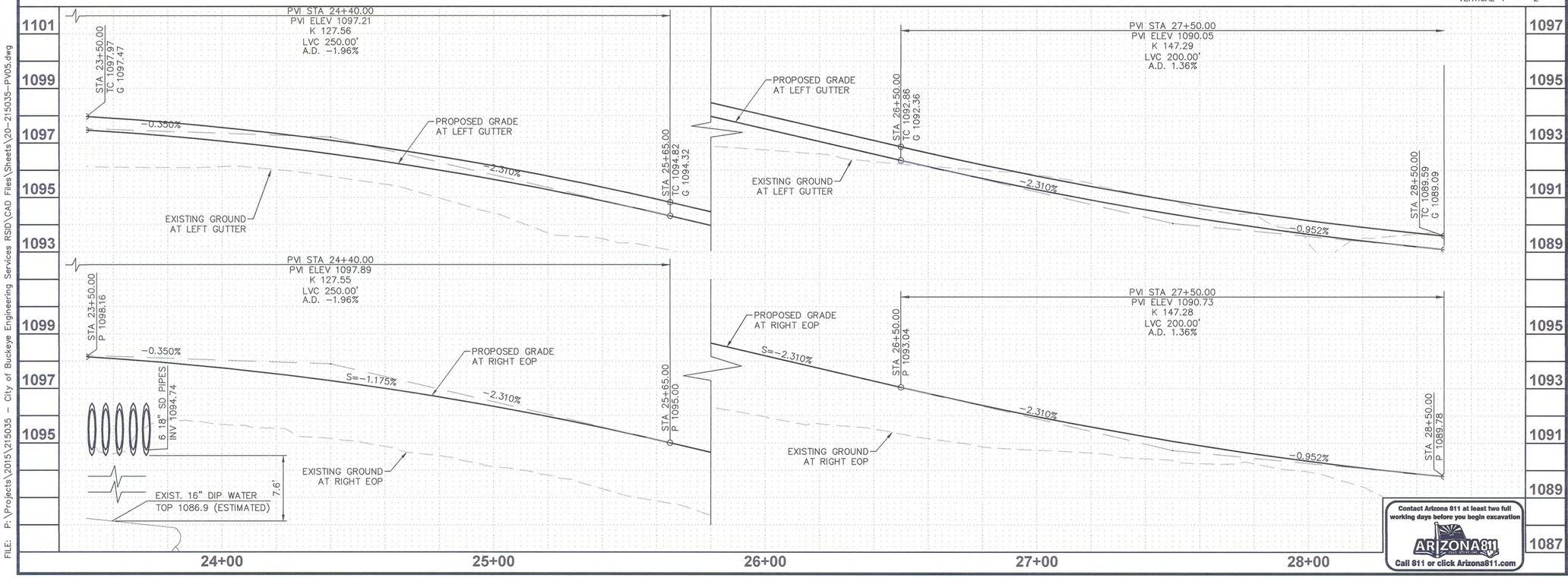
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER	
2014-071	PV04	19 OF 125

PLOT DATE: Dec 14, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\19-215035-PV04.dwg





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	1667	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	1667	SY
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	500	LF
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-2	1	EA
6	CURB & GUTTER PER MAG STD DET 220-1 TYPE A	500	LF
9	GUARDRAIL PER ADOT STD DET 10.03/G4(1W) (INCLUDES END TREATMENTS) SEE DETAIL SHEET DT02	242	LF
11	GRADING FOR DRAINAGE	1	LS

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
VAN BUREN STREET
STA 23+50 TO 28+50

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
ARIZONA, U.S.A.
EXPIRES 03/31/2018

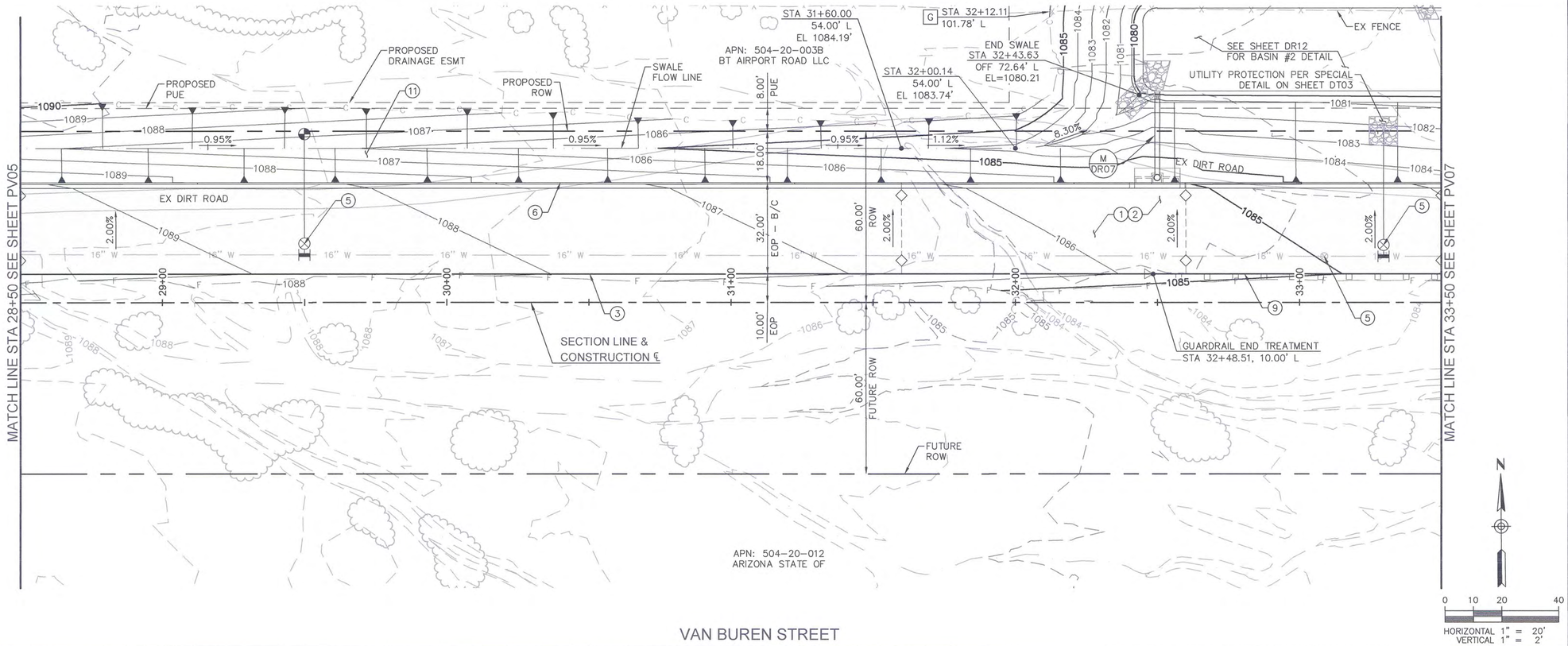
COB PLAN TRACKING # ENG-16-00003

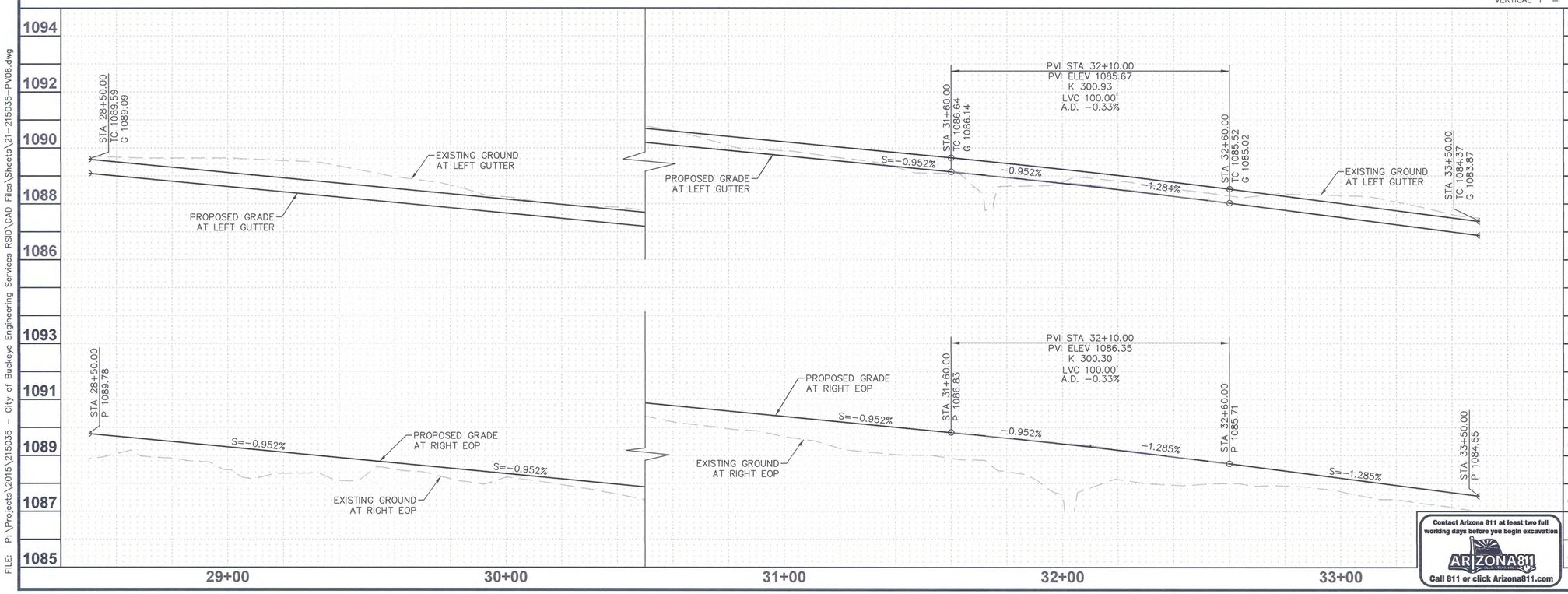
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER 2014-071	SHEET NUMBER PV05 — 20 OF 125

PLOT DATE: Dec 14, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\20-215035-PV05.dwg





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

REMOVAL NOTES

NO.	DESC.	QTY	UNITS
G	REMOVE FENCE (RAILS & POSTS)	138	LF

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	1,667	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	1,667	SY
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	500	LF
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 TYPE A	3	EA
6	CURB & GUTTER PER MAG STD DET 220-1 TYPE A	500	LF
9	GUARDRAIL PER ADOT STD DET 10.03/G4.1W (INCLUDES END TREATMENTS) SEE DETAIL SHEET DT02	102	LF
11	GRADING FOR DRAINAGE	1	LS

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
VAN BUREN STREET
STA 28+50 TO 33+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

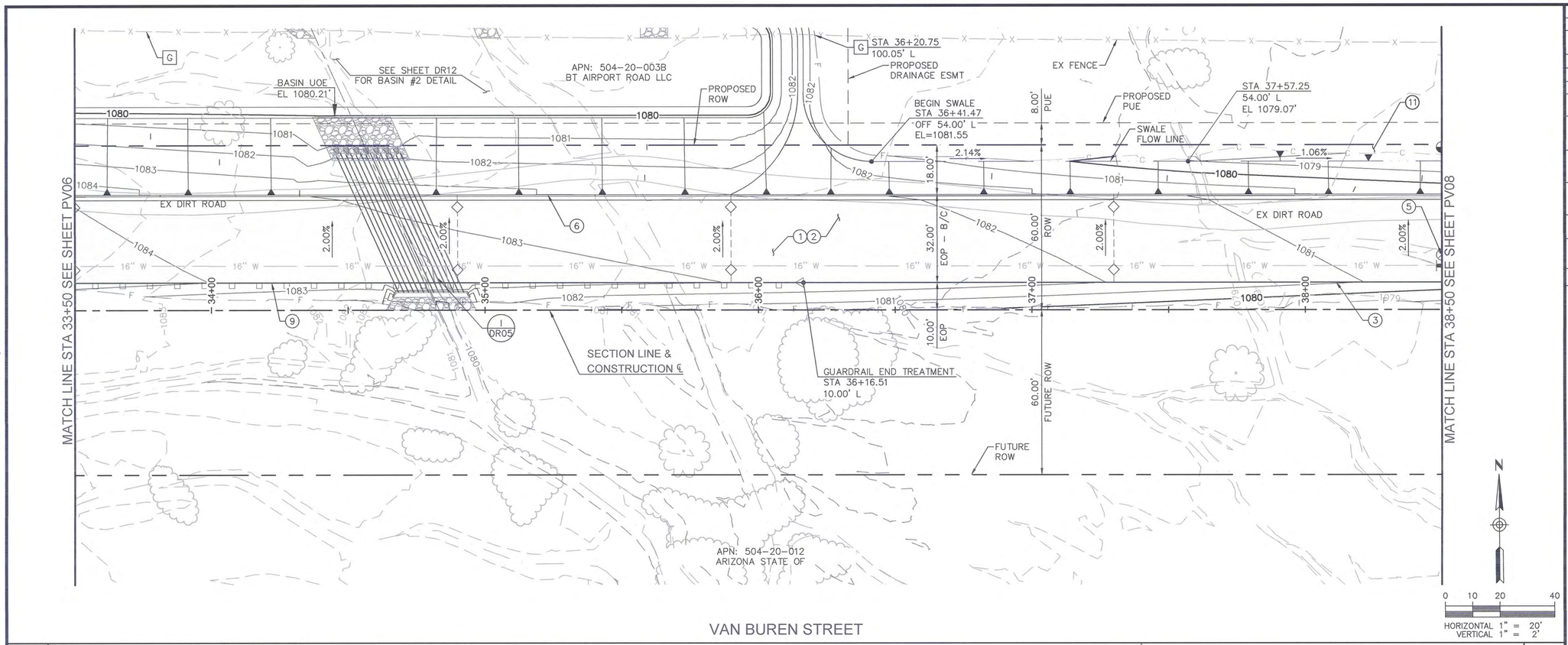
COB PERMIT #

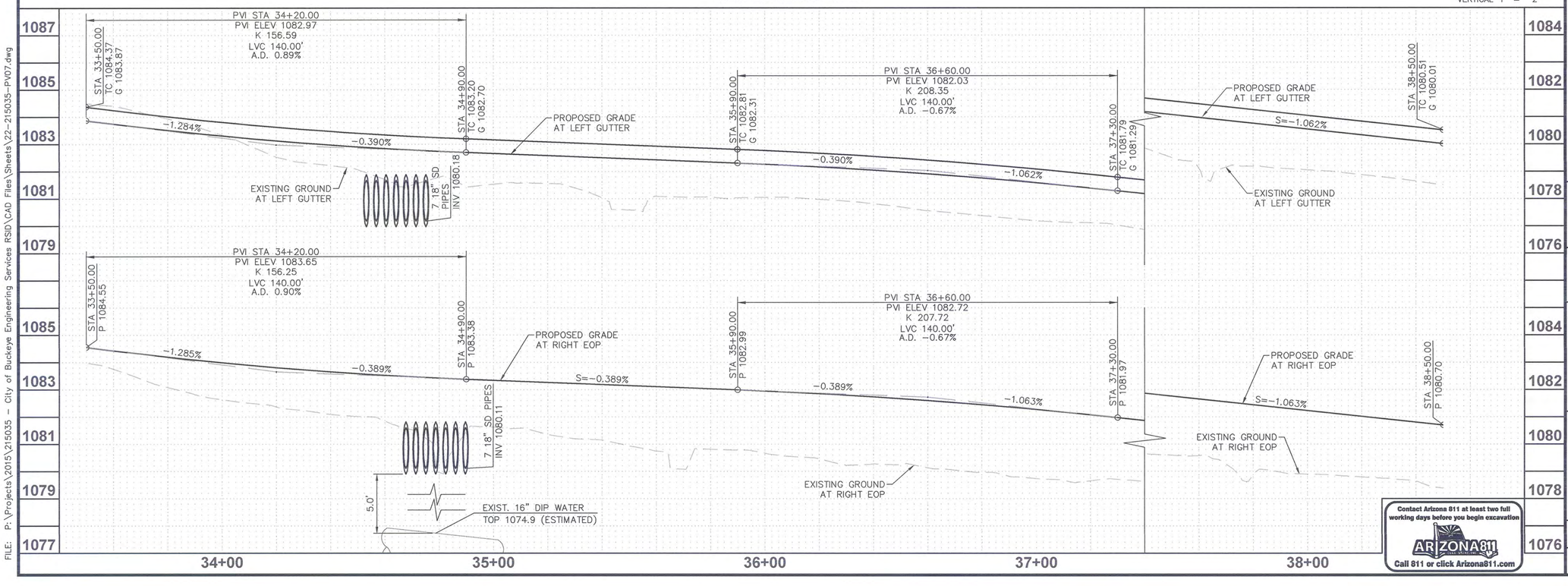
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER	
2014-071	PV06	21 OF 125

PLOT DATE: Dec 14, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\21-215035-PV06.dwg





REMOVAL NOTES

NO.	DESC.	QTY	UNITS
G	REMOVE FENCE (RAILS & POSTS)	271	LF

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	1,667	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	1,667	SY
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	500	LF
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 TYPE A	1	EA
6	CURB & GUTTER PER MAG STD DET 220-1 TYPE A	500	LF
9	GUARDRAIL PER ADOT STD DET 10.03/G4.1W (INCLUDES END TREATMENTS) SEE DETAIL SHEET DT02	264	LF
11	GRADING FOR DRAINAGE	1	LS

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

ROADWAY PLAN AND PROFILE
VAN BUREN STREET
STA 33+50 TO 38+50

ENGINEER INFORMATION

RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL

23232 PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
Signed 12/12/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

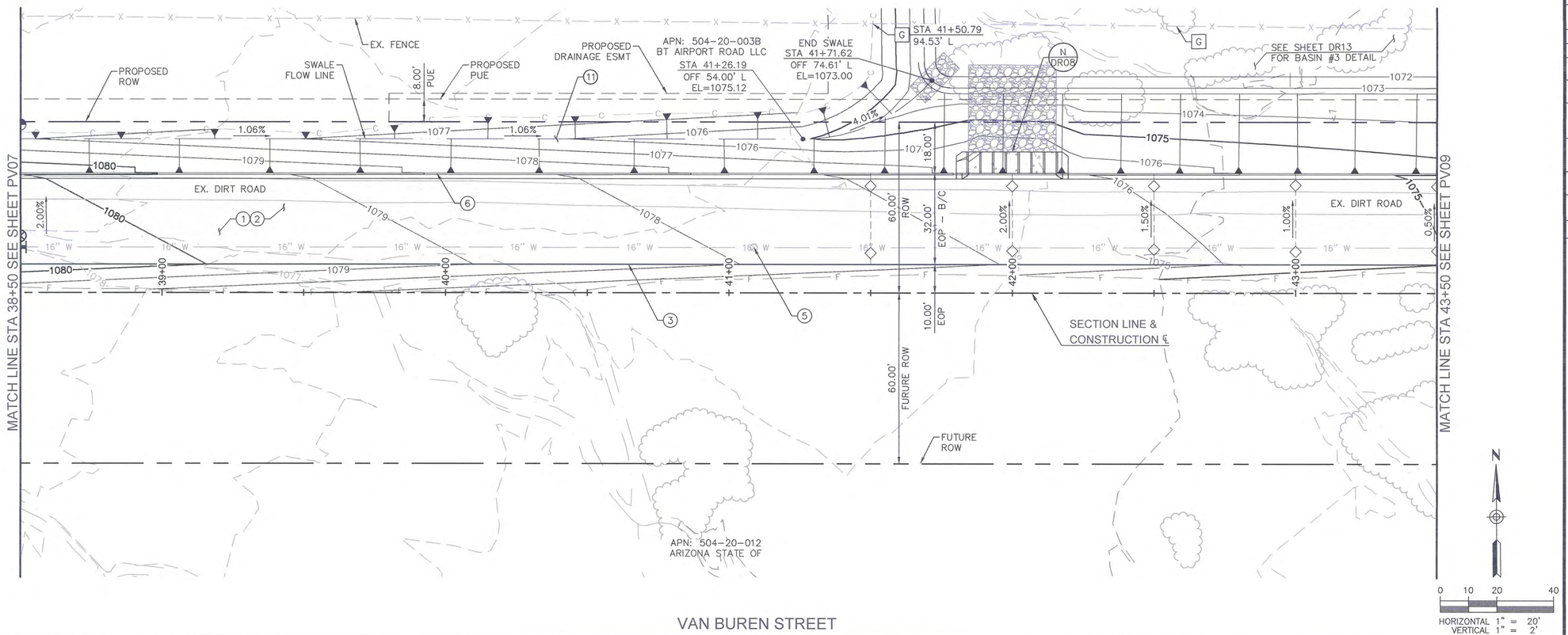
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

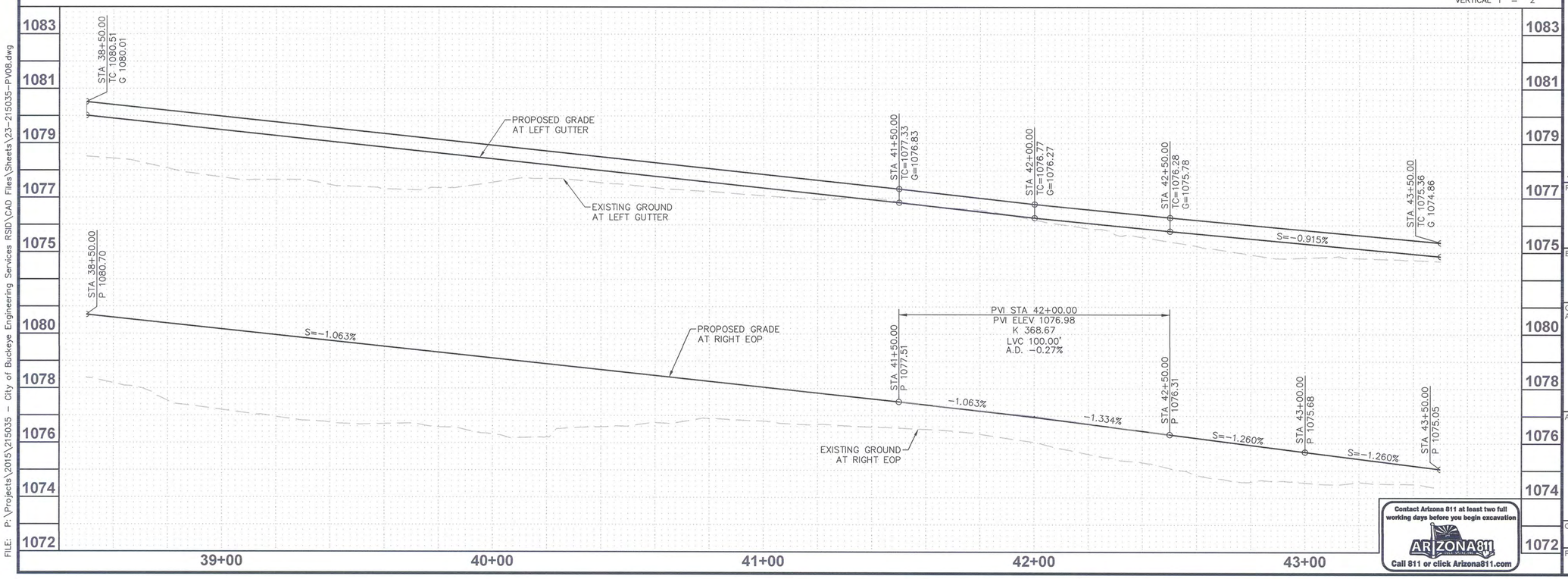
PROJECT NUMBER	SHEET NUMBER
2014-071	PV07

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

PLOT DATE: Dec 14, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\22-215035-PV07.dwg





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

REMOVAL NOTES

NO.	DESC.	QTY	UNITS
G	REMOVE FENCE RAILS & POSTS	200	LF

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	1,667	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	1,667	SY
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	500	LF
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-2	1	EA
6	CURB & GUTTER PER MAG STD DET 220-1 TYPE A	500	LF
11	GRADING FOR DRAINAGE	1	LS

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
VAN BUREN STREET
STA 38+50 TO 43+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

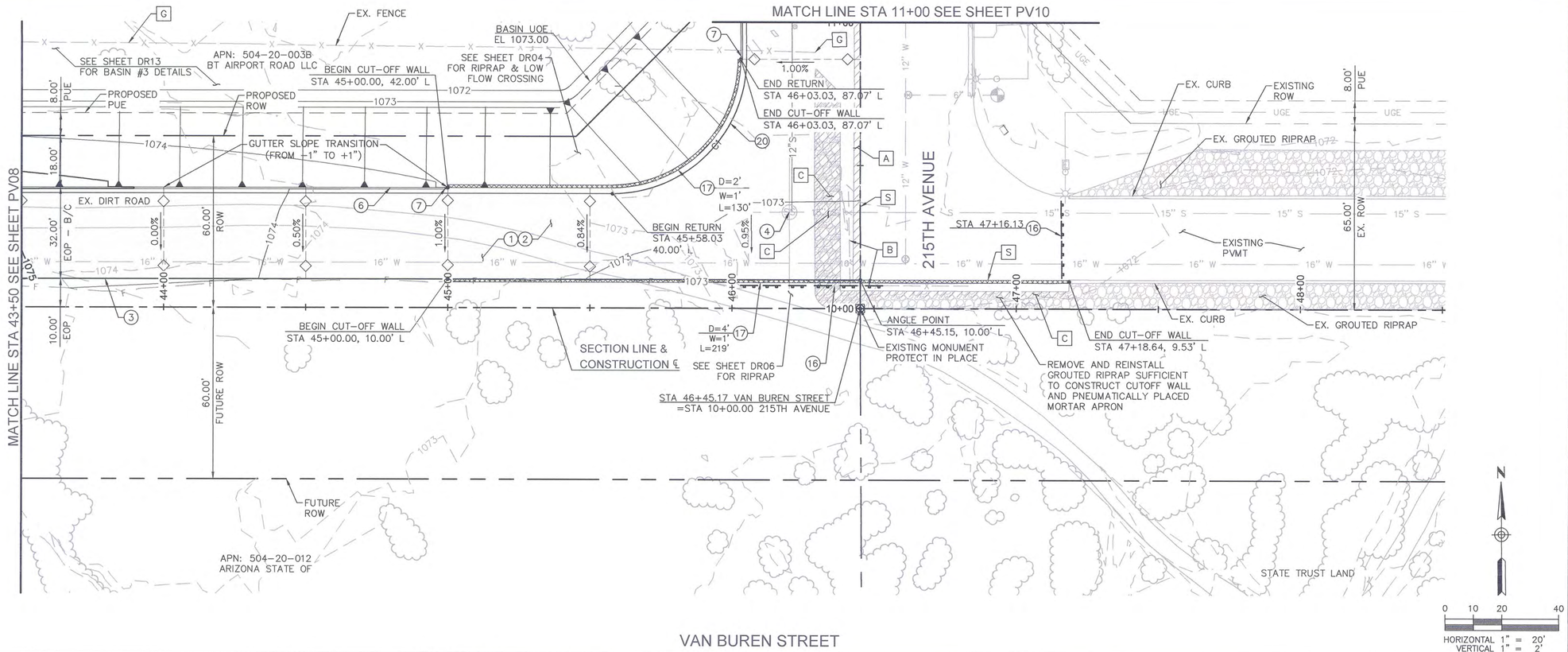
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

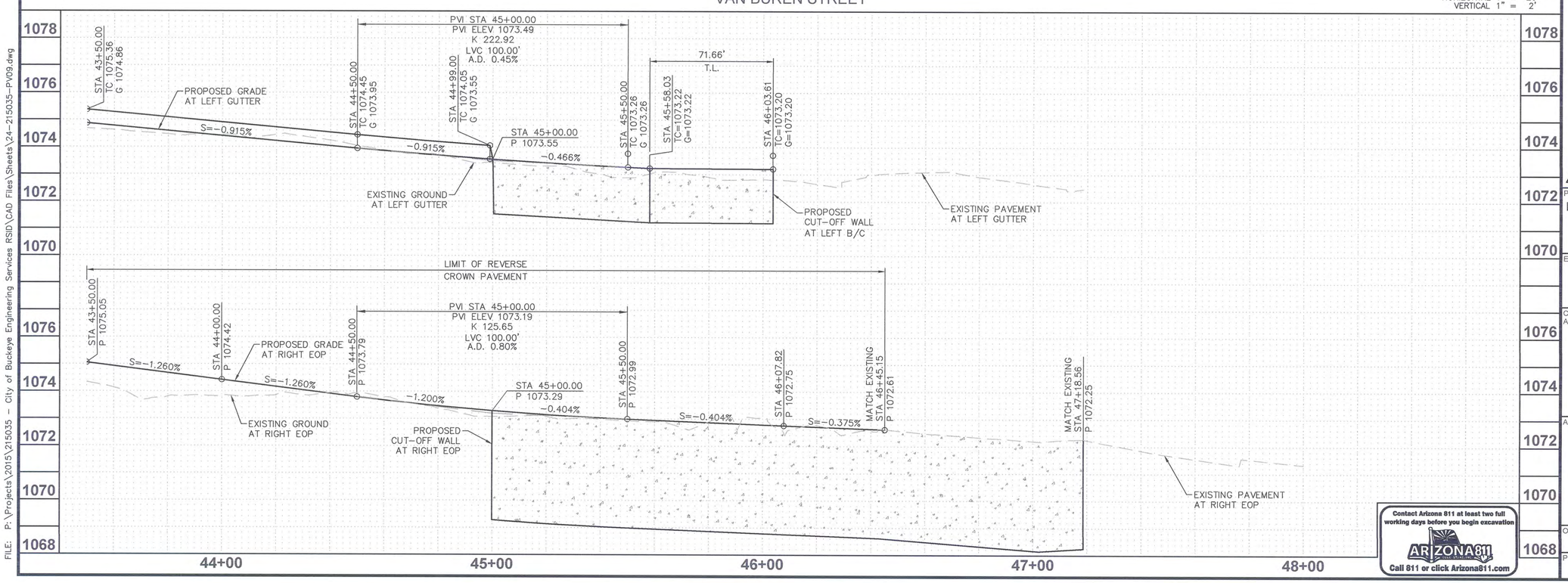
PROJECT NUMBER	SHEET NUMBER	
2014-071	PV08	23 OF 125

PLOT DATE: Dec 14, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\23-215035-PV08.dwg



VAN BUREN STREET



Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REMOVAL NOTES

NO.	DESC.	QTY	UNITS
A	REMOVE AC PAVEMENT (INCLUDES SUBGRADE/SUBBASE)	24	SY
B	REMOVE BARRICADE	74	LF
C	REMOVE RIP RAP	890	SF
G	REMOVE FENCE (RAILS & POSTS)	279	LF
S	SAWCUT 2" (MINIMUM & MATCH EXISTING)	164	LF

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	1,303	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	1,303	SY
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	295	LF
4	ADJUST SANITARY SEWER MANHOLE TO FINISHED GRADE PER MAG STD DET 422	1	EA
6	CURB & GUTTER PER MAG STD DET 220-1 TYPE A	163	LF
7	1) CURB TERMINATION PER DETAIL SHEET DT01	2	EA
11	GRADING FOR DRAINAGE	1	LS
16	INSTALL BARRICADE PER MAG STD DET 130 TYPE A WITH OM4-1 OBJECT MARKERS.	77	LF
17	INSTALL CONCRETE CUTOFF WALL PER MAG STD DET 552. TOTAL DEPTH OF WALL D, WIDTH OF WALL W, AND LENGTH OF WALL L PER PLAN. INSTALL DEPTH GAUGE ON SOUTH SIDE OF VAN BUREN STREET	349	LF
20	RIBBON CURB PER MAG STD DET 220-1 TYPE B	132	LF

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
C1	90°05'07"	45.00'	70.75'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
VAN BUREN STREET
STA 43+50 TO 48+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
EXPIRES 03/31/2018

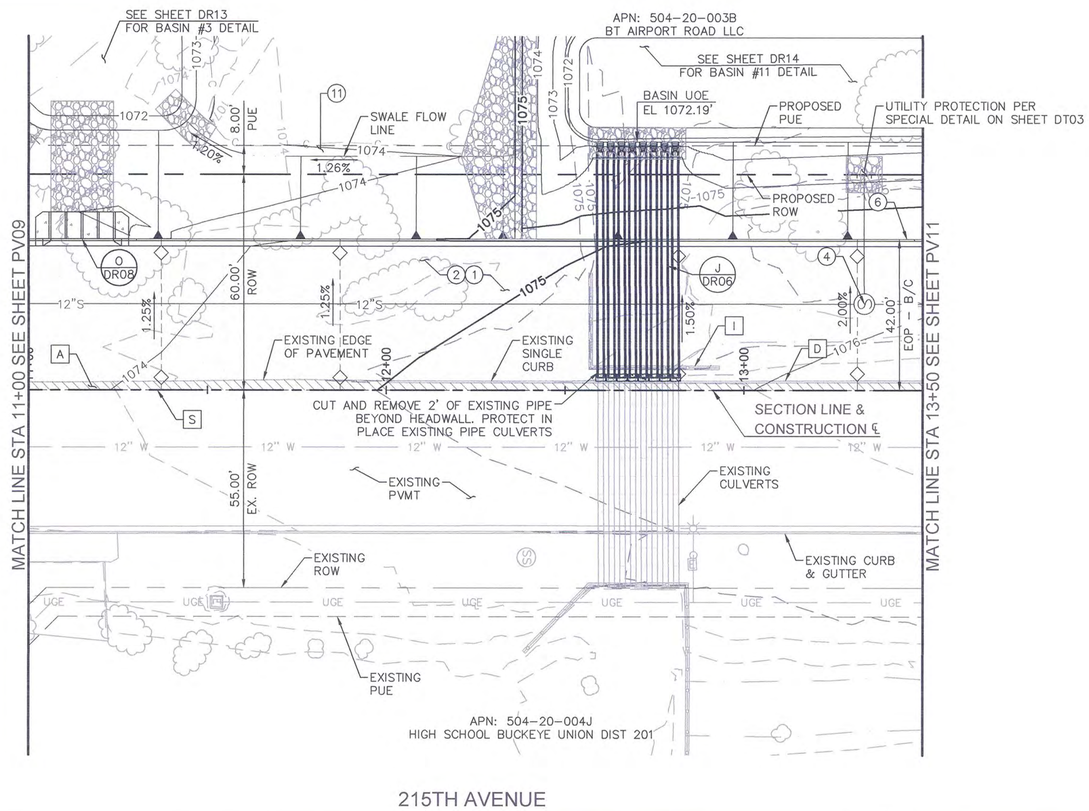
COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER 2014-071	SHEET NUMBER PV09 — 24 OF 125

PLOT DATE: Dec 14, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\24-215035-PV09.dwg



REMOVAL NOTES

NO.	DESC.	QTY	UNITS
A	REMOVE AC PAVEMENT (INCLUDES SUBGRADE/SUBBASE)	57	SY
D	REMOVE CONCRETE CURB	150	LF
I	REMOVE HEADWALL	1	EA
S	SAWCUT 2" MINIMUM & MATCH EXISTING	250	LF

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	1,111	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	1,111	SY
4	ADJUST SANITARY SEWER MANHOLE TO FINISHED GRADE PER MAG STD DET 422	1	EA
6	CURB & GUTTER PER MAG STD DET 220-1 TYPE A	250	LF
11	GRADING FOR DRAINAGE	1	LS

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
215TH AVENUE
STA 11+00 TO 13+50

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

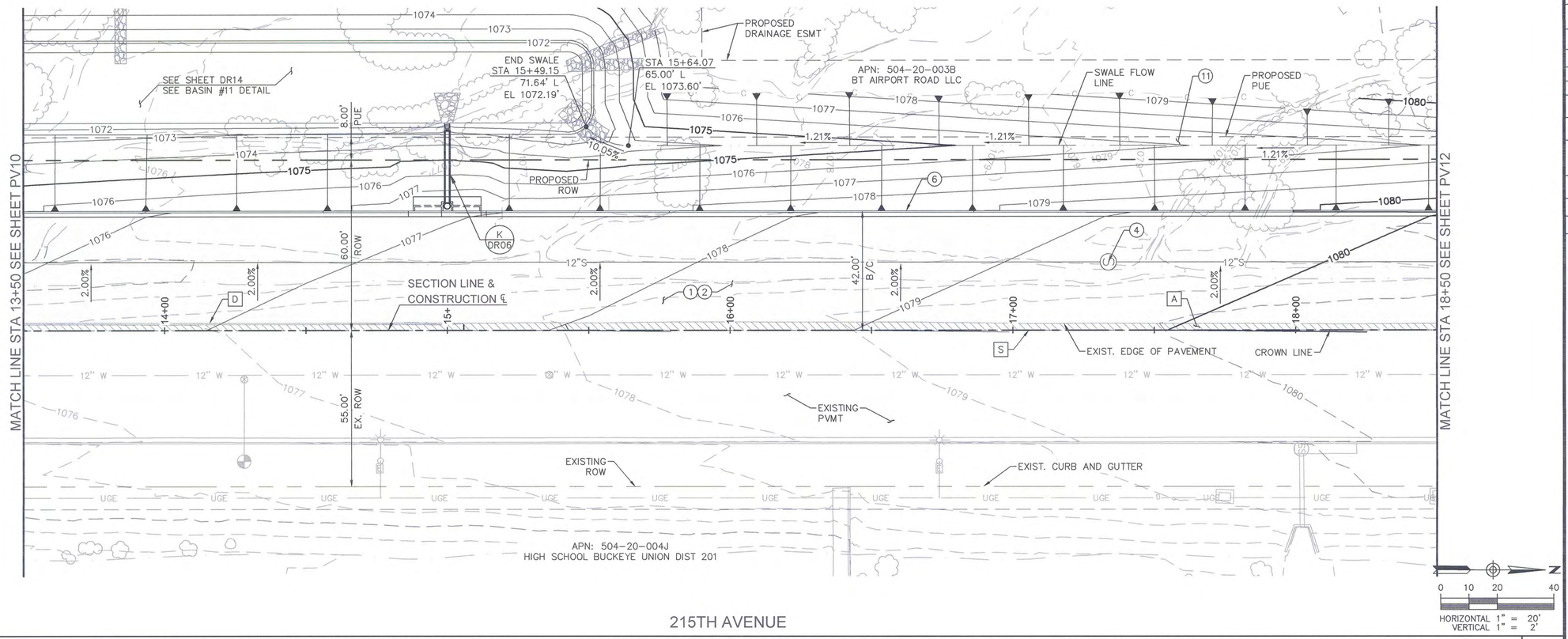
DESIGN SEAL
23232 PETER H. HEMINGWAY
EXPIRES 03/31/2018

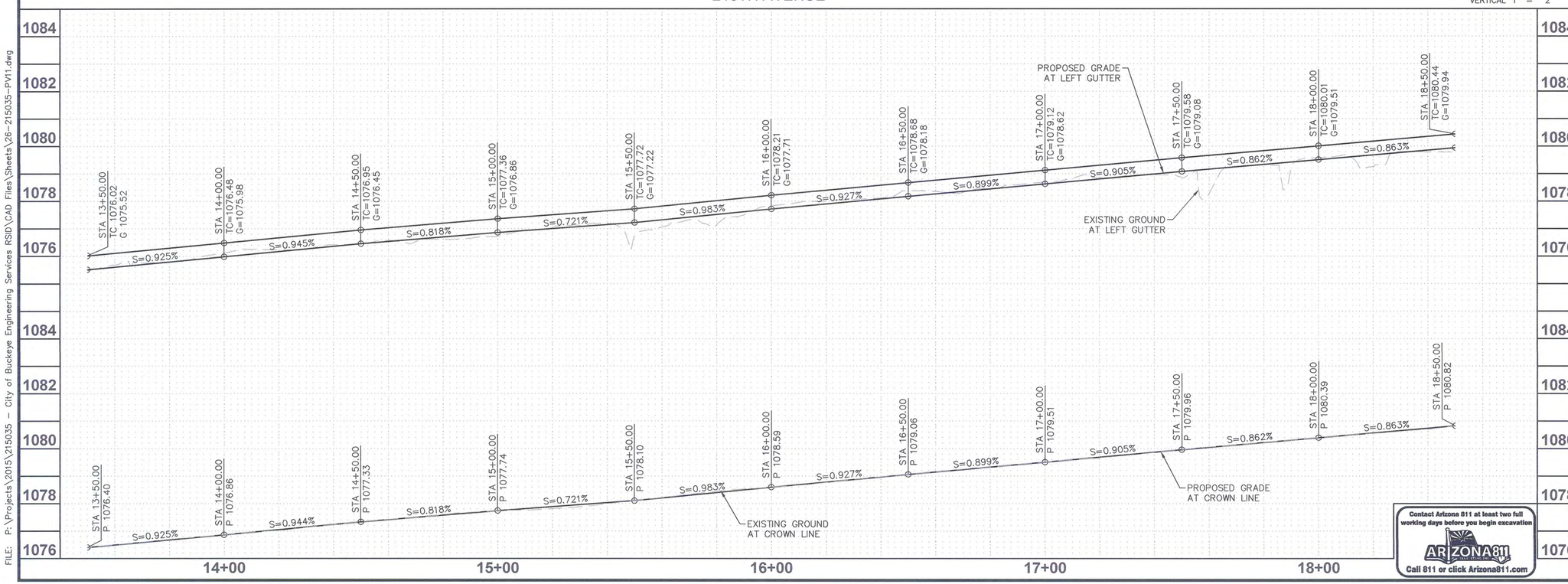
ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER PV10
25 OF 125
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click ArizonaB811.com

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\25-215035-PV10.dwg





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REMOVAL NOTES

NO.	DESC.	QTY	UNITS
A	REMOVE AC PAVEMENT (INCLUDES SUBGRADE/SUBBASE)	130	SY
D	REMOVE CONCRETE CURB	150	LF
S	SAWCUT 2" MINIMUM & MATCH EXISTING	500	LF

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	2,222	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	2,222	SY
4	ADJUST SANITARY SEWER MANHOLE TO FINISHED GRADE PER MAG STD DET 422	1	EA
6	CURB & GUTTER PER MAG STD DET 220-1 TYPE A	500	LF
11	GRADING FOR DRAINAGE	1	LS

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
215TH AVENUE
STA 13+50 TO 18+50

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

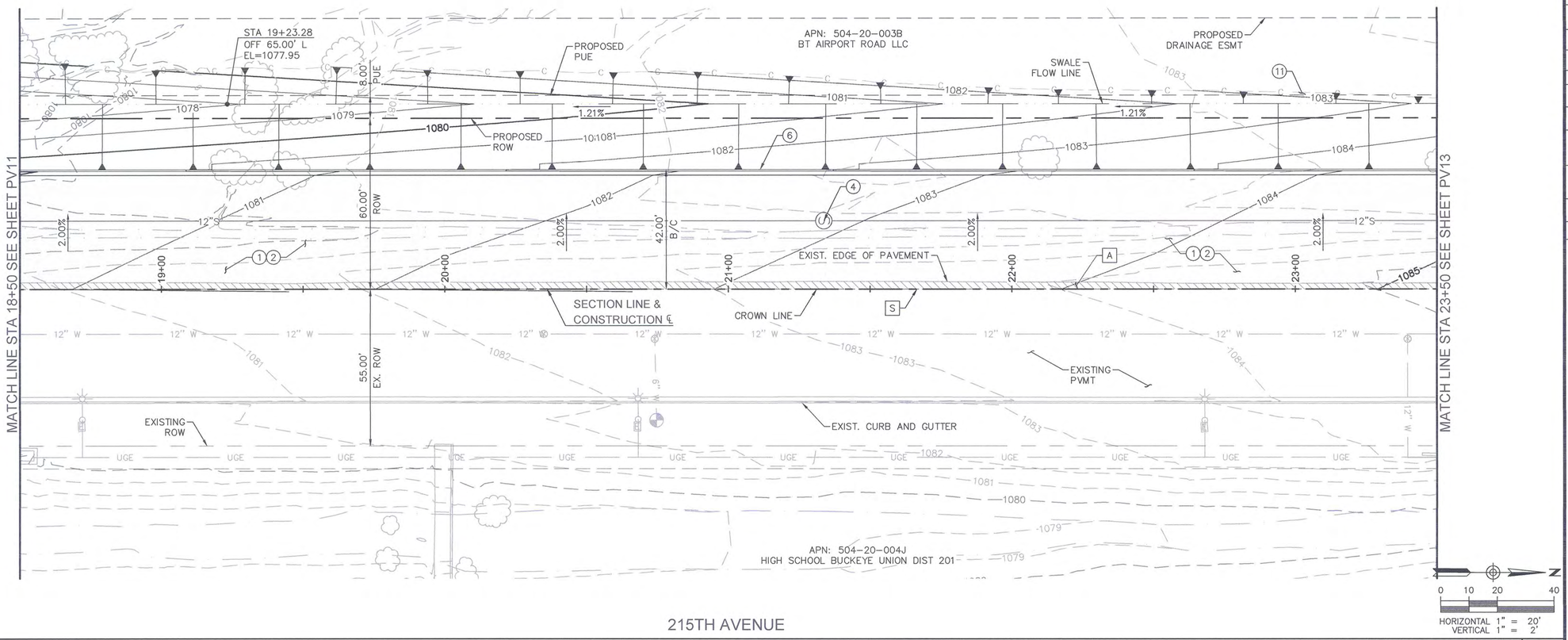
SUBMITTAL: 3RD SUBMITTAL

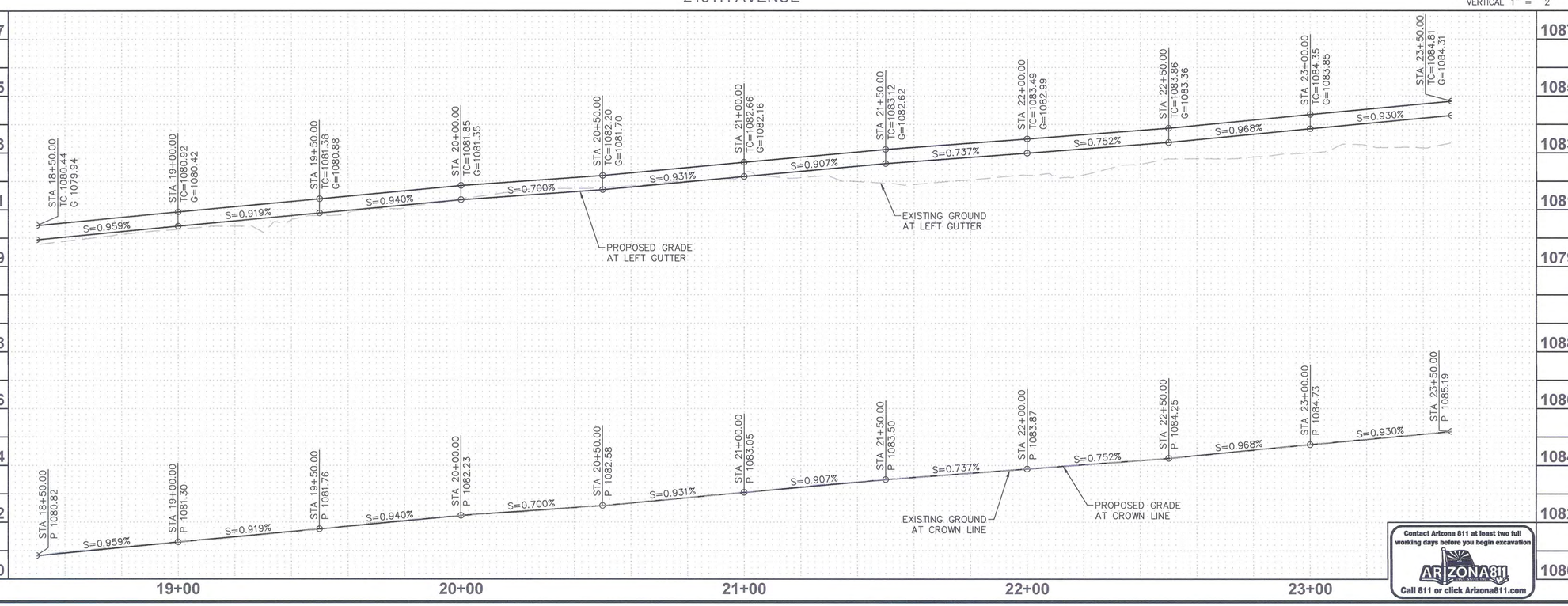
AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
EXPIRES 03/31/2018

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER PV11
26 OF 125
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

PLOT DATE: Dec 13, 2017
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\26-215035-PV11.dwg





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

REMOVAL NOTES

NO.	DESC.	QTY	UNITS
A	REMOVE AC PAVEMENT (INCLUDES SUBGRADE/SUBBASE)	125	SY
S	SAWCUT 2" MINIMUM & MATCH EXISTING	500	LF

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	2,222	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	2,222	SY
4	ADJUST SANITARY SEWER MANHOLE TO FINISHED GRADE PER MAG STD DET 422	1	EA
6	CURB & GUTTER PER MAG STD DET 220-1 TYPE A	500	LF
11	GRADING FOR DRAINAGE	1	LS

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
215TH AVENUE
STA 18+50 TO 23+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
Date Signed 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

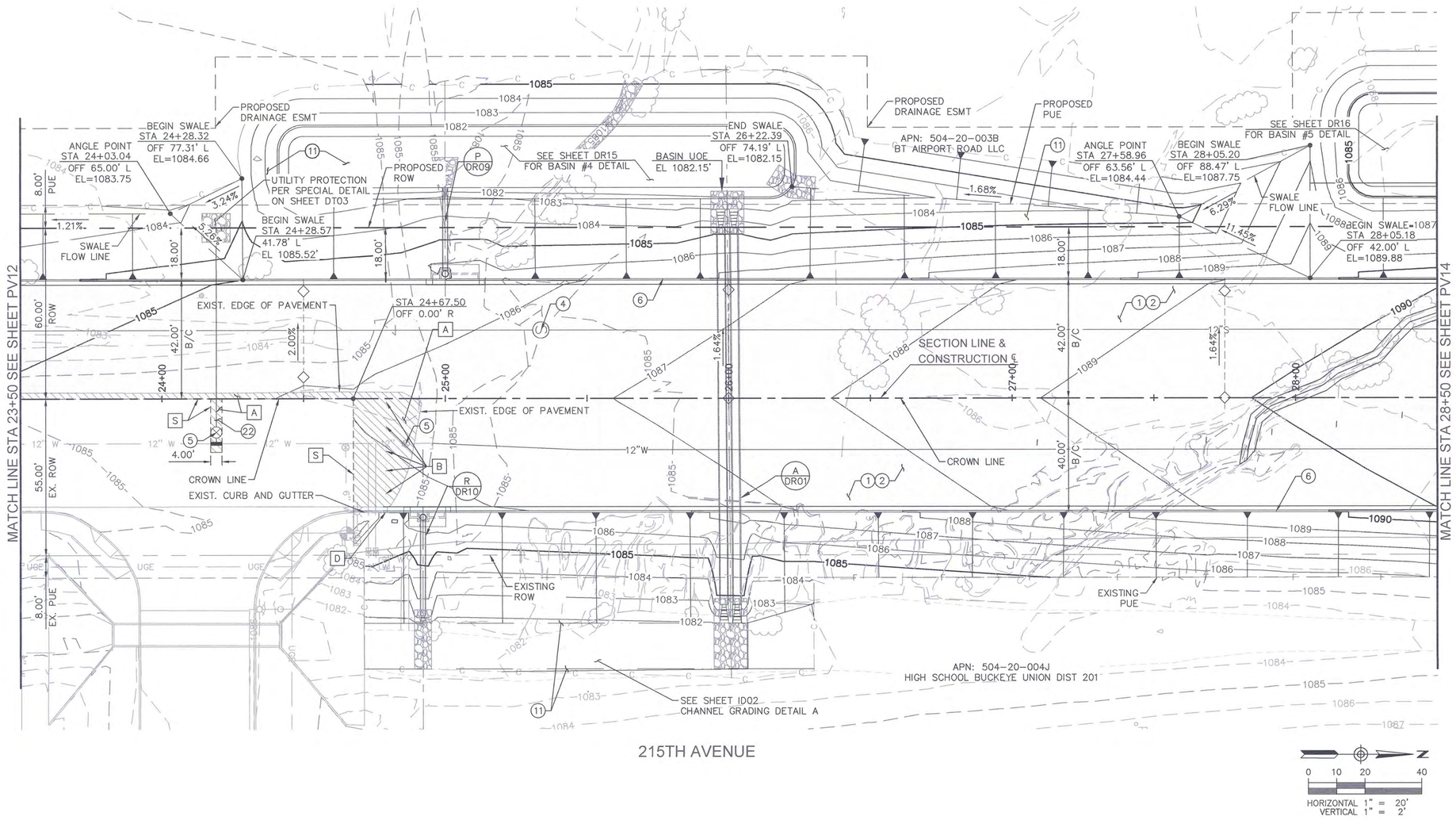
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER	
2014-071	PV12	27 OF 125

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\27-215035-PV12.dwg



REMOVAL NOTES

NO.	DESC.	QTY	UNITS
A	REMOVE AC PAVEMENT (INCLUDES SUBGRADE/SUBBASE)	118	SY
B	REMOVE BARRICADE	38	LF
D	REMOVE CONCRETE CURB	12	LF
S	SAWCUT 2" MINIMUM & MATCH EXISTING	199	LF

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	3,837	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	3,837	SY
4	ADJUST SANITARY SEWER MANHOLE TO FINISHED GRADE PER MAG STD DET 422	1	EA
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 TYPE A	2	EA
6	CURB & GUTTER PER MAG STD DET 220-1 TYPE A	883	LF
11	GRADING FOR DRAINAGE	1	LS
22	T-TOP PAVEMENT REPLACEMENT PER MAG STD DET 200 WITH 100% SLURRY BACKFILL AND ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	8	SY

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
215TH AVENUE
STA 23+50 TO 28+50

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
Date Signed 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

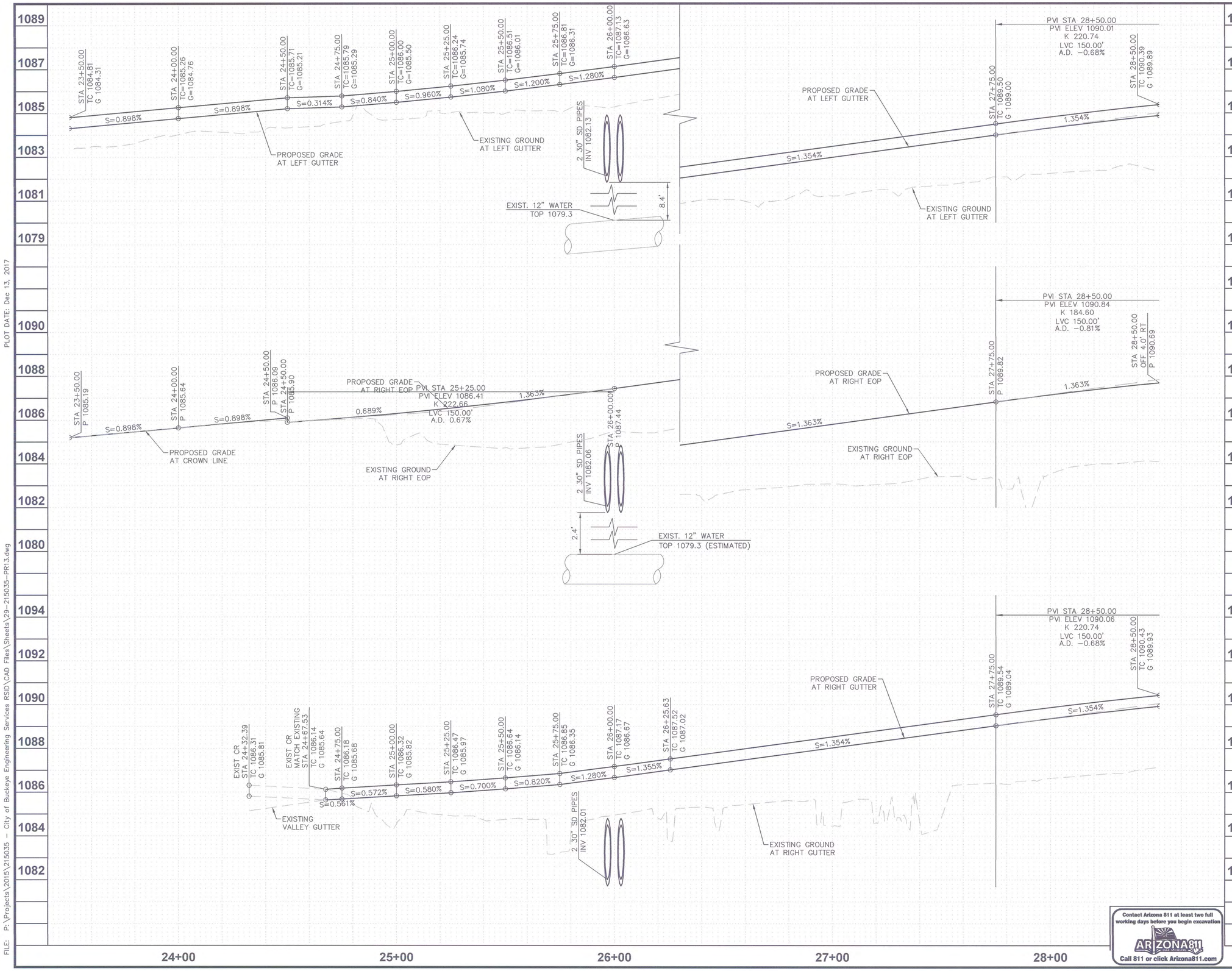
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER	
2014-071	PV13	28 OF 125

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\28-215035-PV13.dwg



Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
215TH AVENUE
STA 23+50 TO 28+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

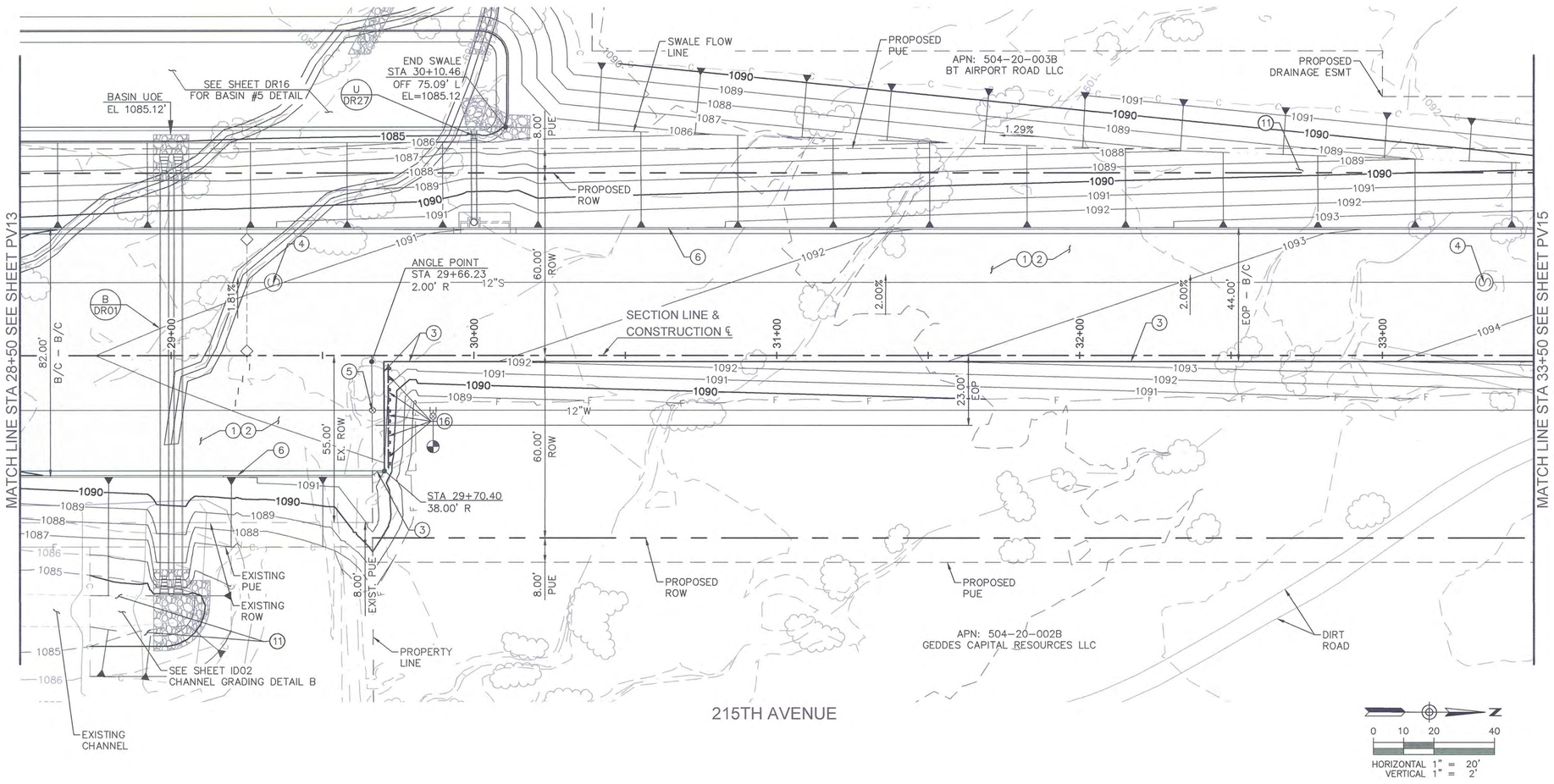
DESIGN SEAL
23232
PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER PR13
29 OF 125
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\29-215035-PR13.dwg

215TH AVENUE



Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	2808	SL
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 INCLUDES SUBGRADE/SUBBASE PREP	2808	SL
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	416	LF
4	ADJUST SANITARY SEWER MANHOLE TO FINISHED GRADE PER MAG STD DET 422	2	EA
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 TYPE A	1	EA
6	CURB & GUTTER PER MAG STD DET 220-1 TYPE A	617	LF
11	GRADING FOR DRAINAGE	1	LS
16	INSTALL BARRICADE PER MAG STD DET 130 TYPE A WITH OM4-1 OBJECT MARKERS.	34	LF

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
215TH AVENUE
STA 28+50 TO 33+50

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

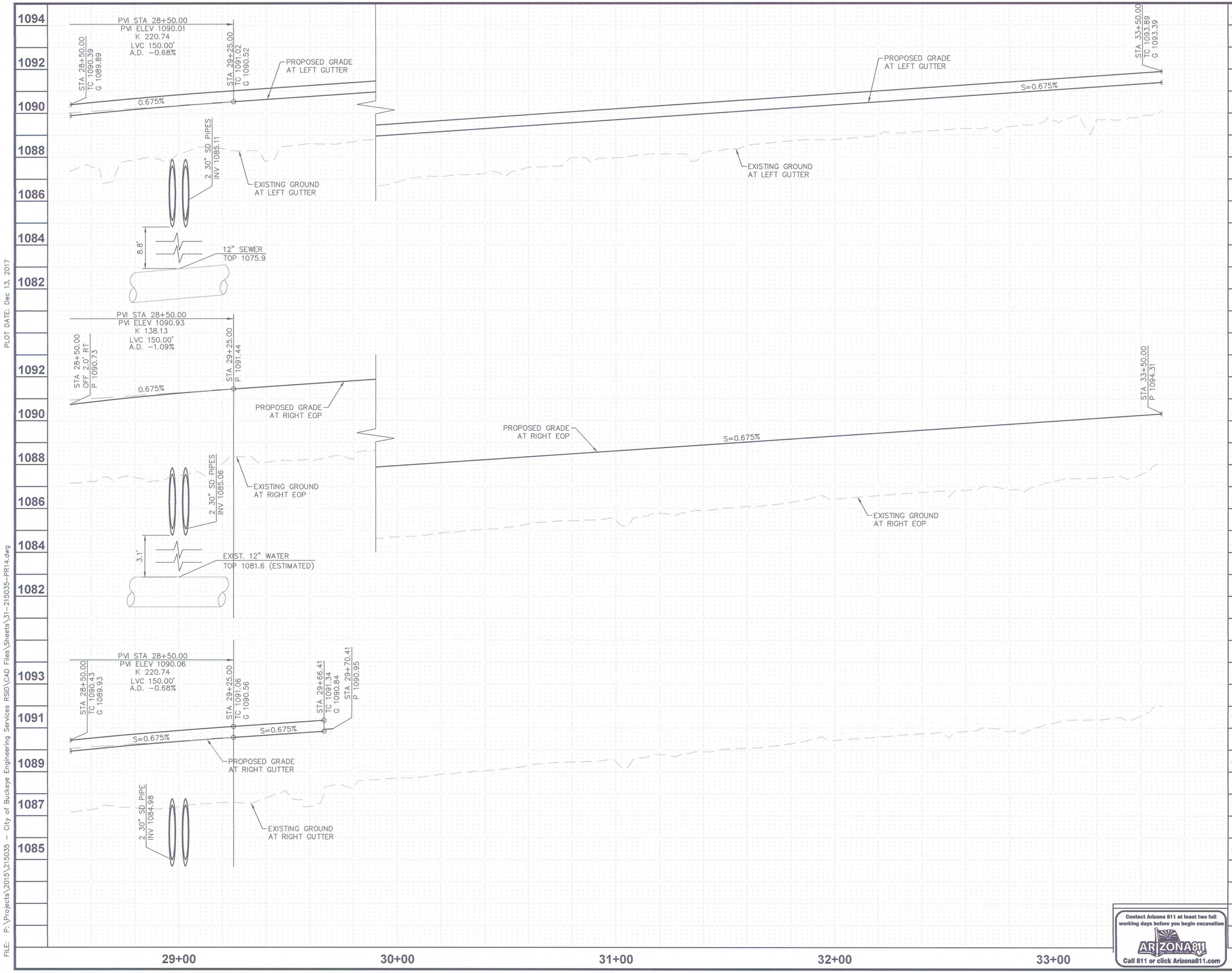
DESIGN SEAL
23232
PETER H. HEMINGWAY
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER PV14
30 OF 125

PLOT DATE: Dec 13, 2017
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\30-215035-PV14.dwg



PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 – City of Buckeye Engineering Services RSID\CAD Files\Sheets\31-215035-PR14.dwg

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

ROADWA□ PLAN AND PROFILE
215TH AVENUE
STA 28+50 TO 33+50

ENGINEER INFORMATION

RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

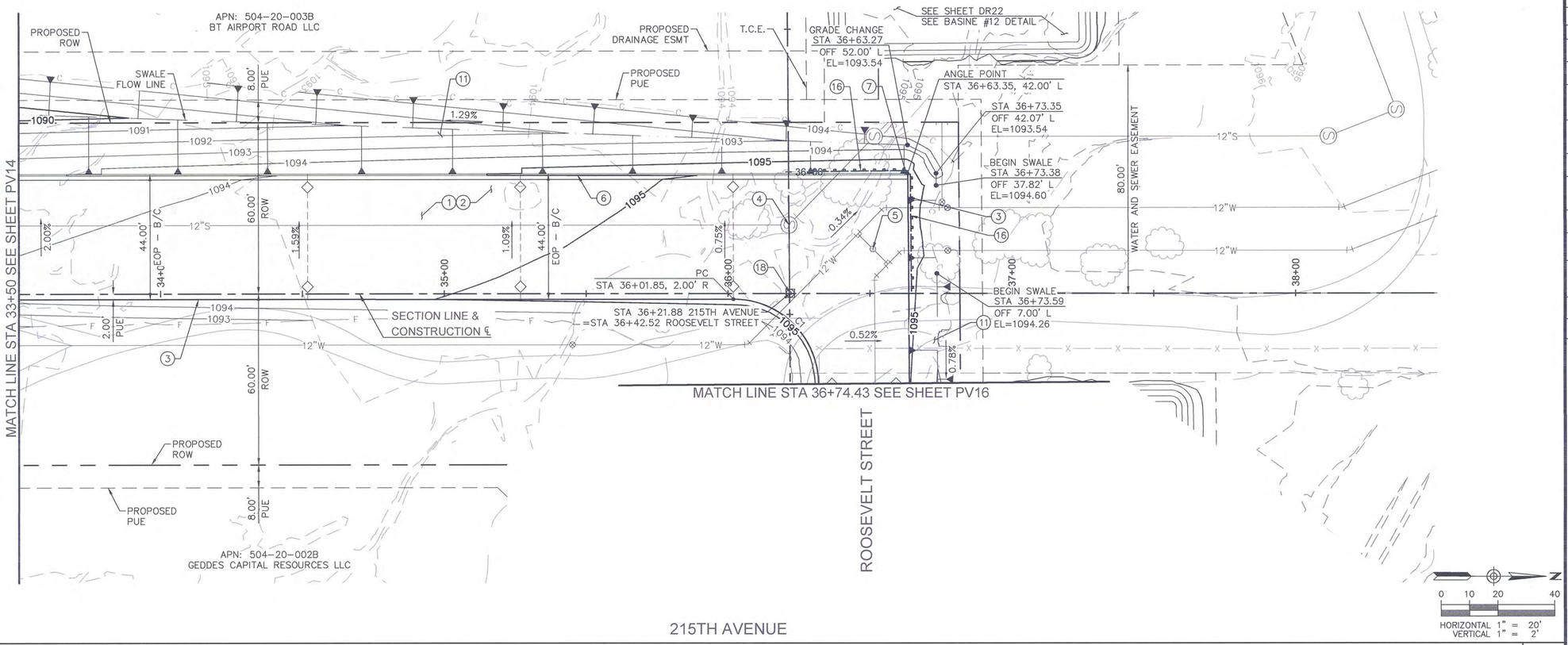
23232
PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

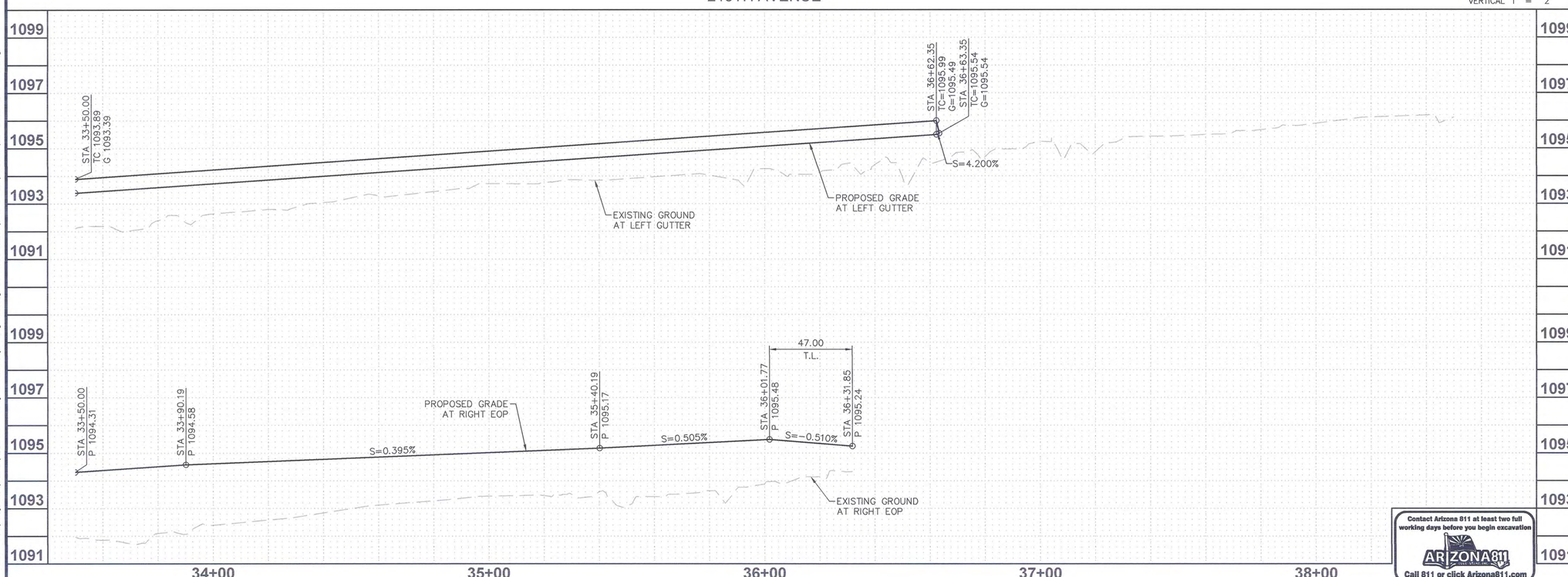
COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER	SHEET NUMBER
2014-071	PR14

31 OF 125





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REMOVAL NOTES

NO.	DESCRIPTION	QTY	UNITS
G	REMOVE FENCE RAILS & POSTS	58	LF

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	1590	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	1590	SY
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	372	LF
4	ADJUST SANITARY SEWER MANHOLE TO FINISHED GRADE PER MAG STD DET 422	1	EA
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 TYPE A	1	EA
6	CURB & GUTTER PER MAG STD DET 220-1 TYPE A	314	LF
7	1 CURB TERMINATION PER DETAIL SHEET DT01	1	EA
11	GRADING FOR DRAINAGE	1	LS
16	INSTALL BARRICADE PER MAG STD DET 130 TYPE A WITH OM4-1 OBJECT MARKERS.	75	LF
18	SURVEY MARKER PER MAG STD DET 120 TYPE A	1	EA

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
C1	89°36'38"	30.00'	46.92'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
215TH AVENUE
STA 33+50 TO 38+50

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
EXPIRES 03/31/2018

SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

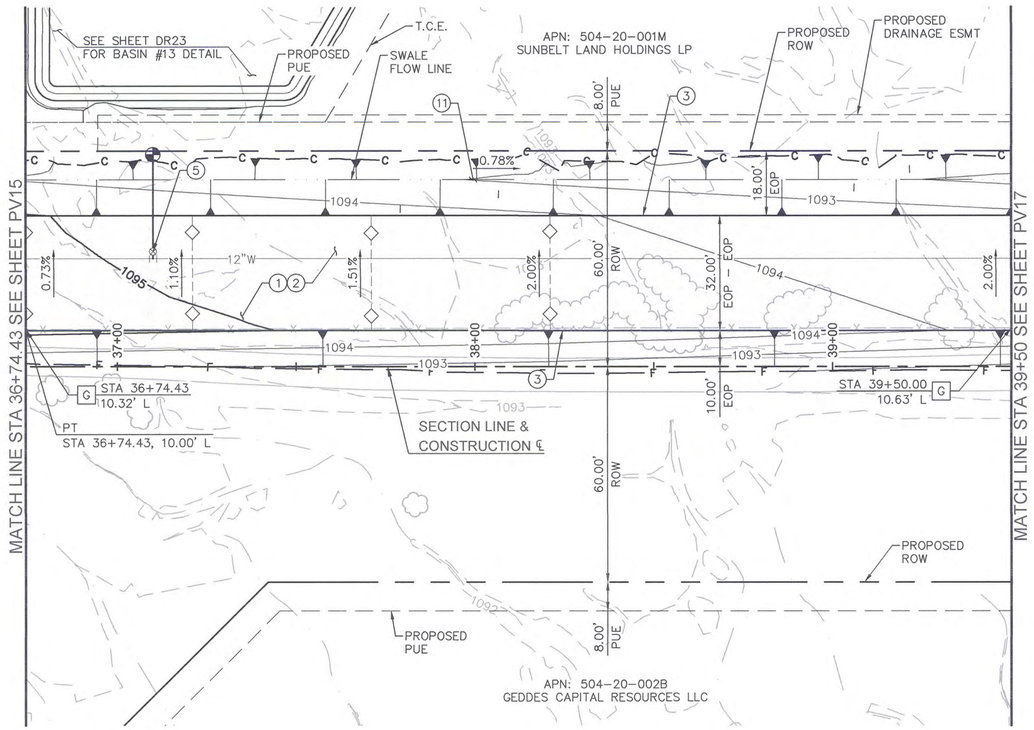
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

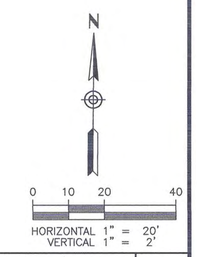
PROJECT NUMBER	SHEET NUMBER	
2014-071	PV15	32 OF 125

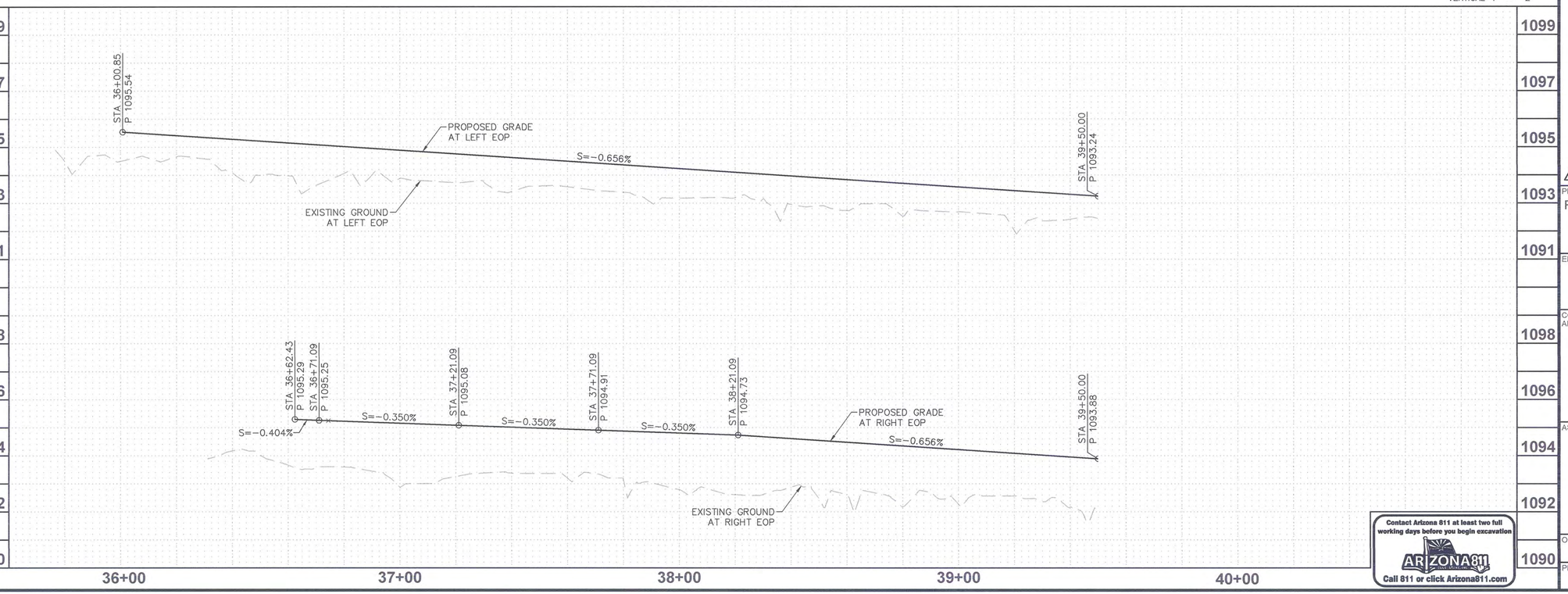
PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\32-215035-PV15.dwg



ROOSEVELT STREET





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

REMOVAL NOTES

NO.	DESC.	QTY	UNITS
G	REMOVE FENCE (RAILS & POSTS)	276	LF

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	980	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	980	SY
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	551	LF
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 TYPE A	1	EA
11	GRADING FOR DRAINAGE	1	LS

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
ROOSEVELT STREET
STA 36+62.43 TO 39+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

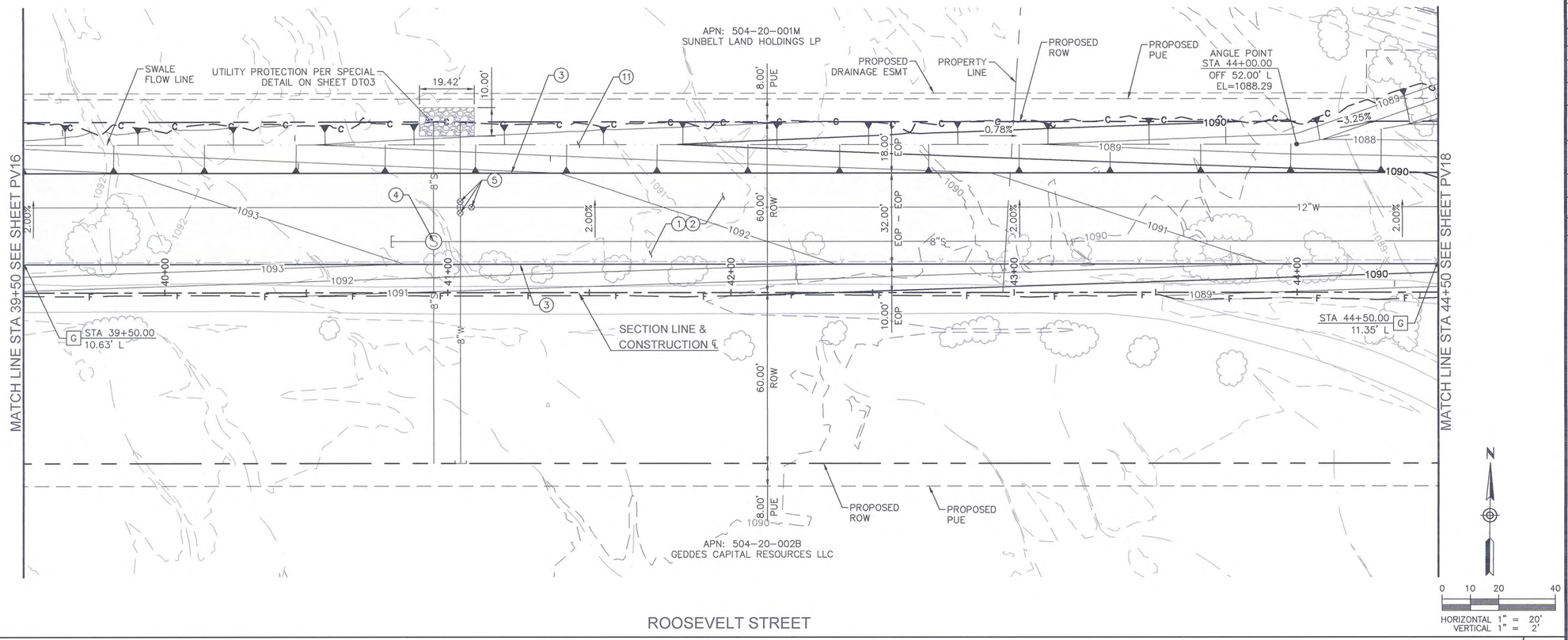
COB PERMIT #

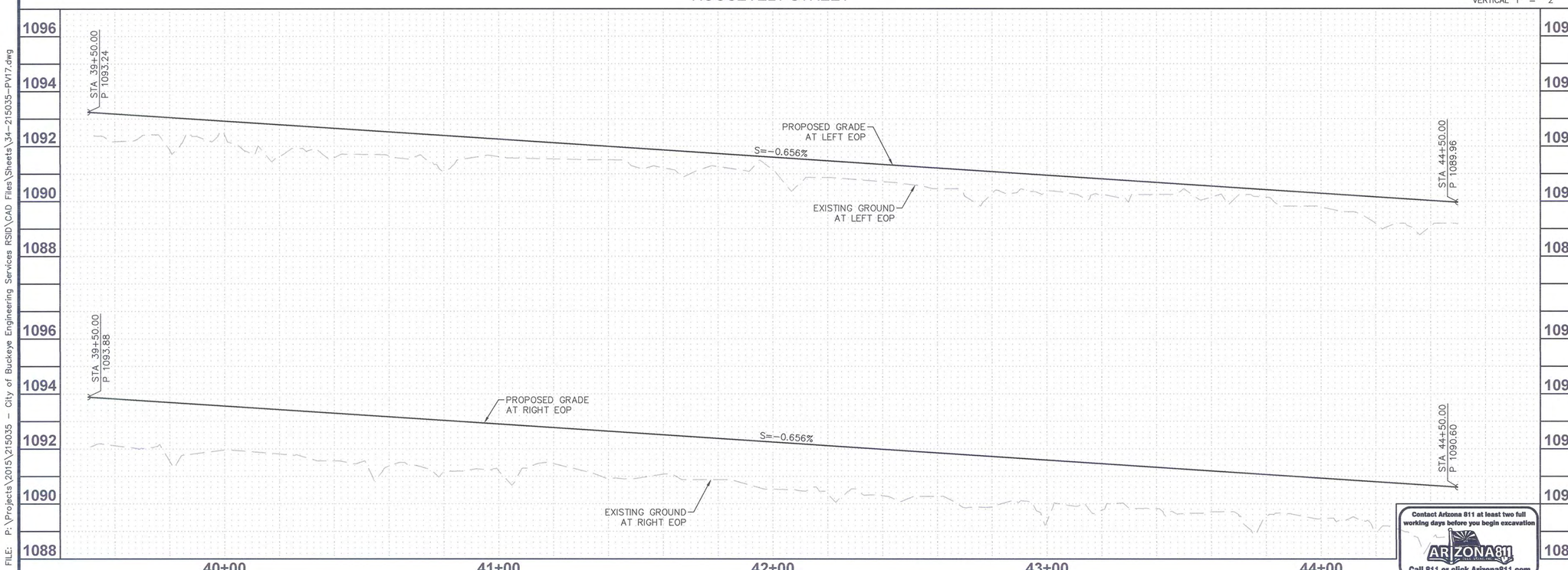
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER	
2014-071	PV16	33 OF 125

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\33-215035-PV16.dwg





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REMOVAL NOTES

NO.	DESC.	QTY	UNITS
G	REMOVE FENCE RAILS & POSTS	500	LF

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	1,778	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	1,778	SY
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	1,000	LF
4	ADJUST SANITARY SEWER MANHOLE TO FINISHED GRADE PER MAG STD DET 422	1	EA
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 TYPE A	3	EA
11	GRADING FOR DRAINAGE	1	LS

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
ROOSEVELT STREET
STA 39+50 TO 44+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

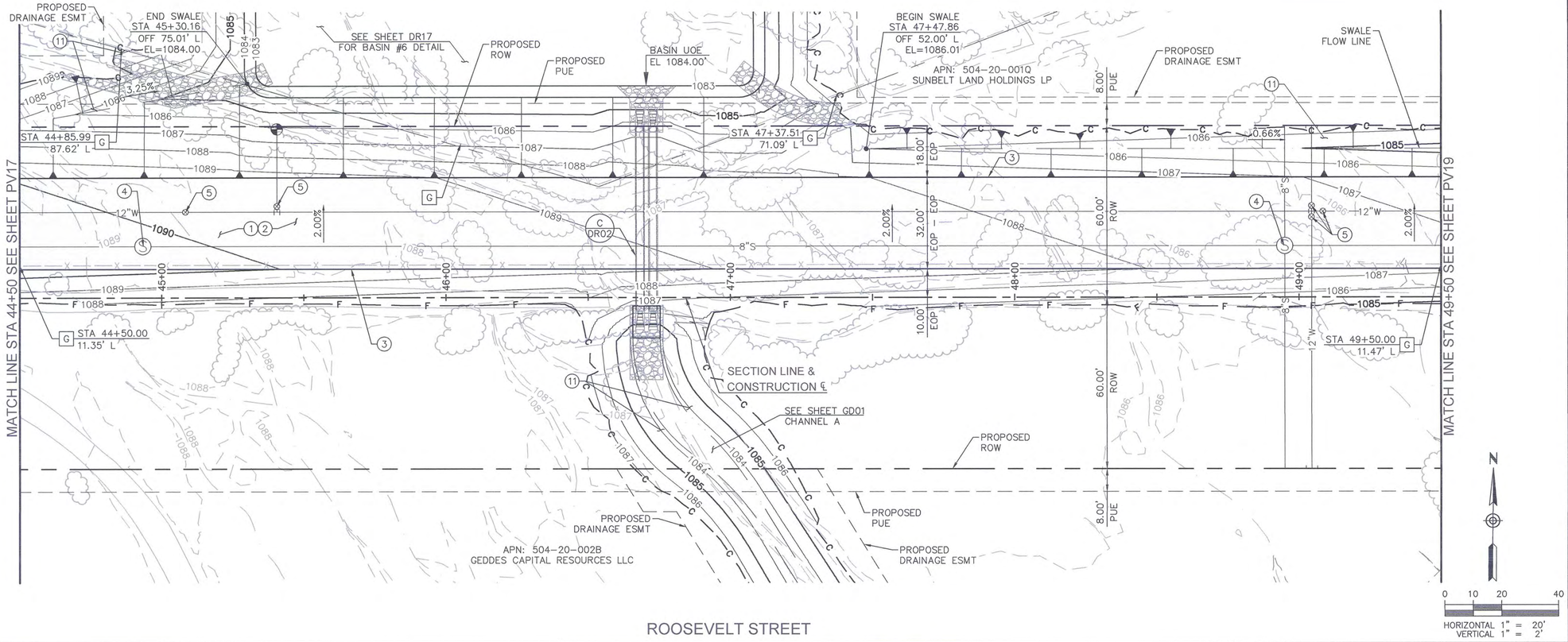
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

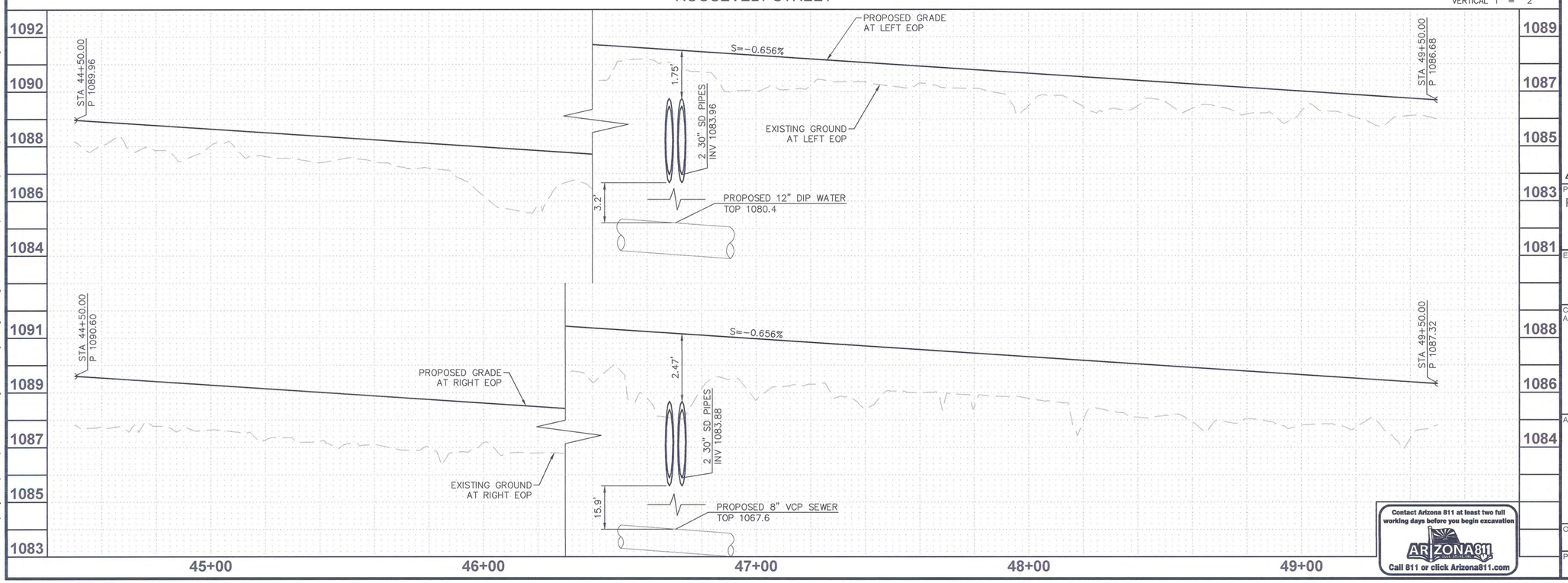
PROJECT NUMBER	SHEET NUMBER	
2014-071	PV17	34 OF 125

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\34-215035-PV17.dwg



ROOSEVELT STREET



Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REMOVAL NOTES

NO.	DESC.	QTY	UNITS
G	REMOVE FENCE: RAILS & POSTS	766	LF

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	1,778	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	1,778	SY
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	1,000	LF
4	ADJUST SANITARY SEWER MANHOLE TO FINISHED GRADE PER MAG STD DET 422	2	EA
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 TYPE A	5	EA
11	GRADING FOR DRAINAGE	1	LS

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
ROOSEVELT STREET
STA 44+50 TO 49+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

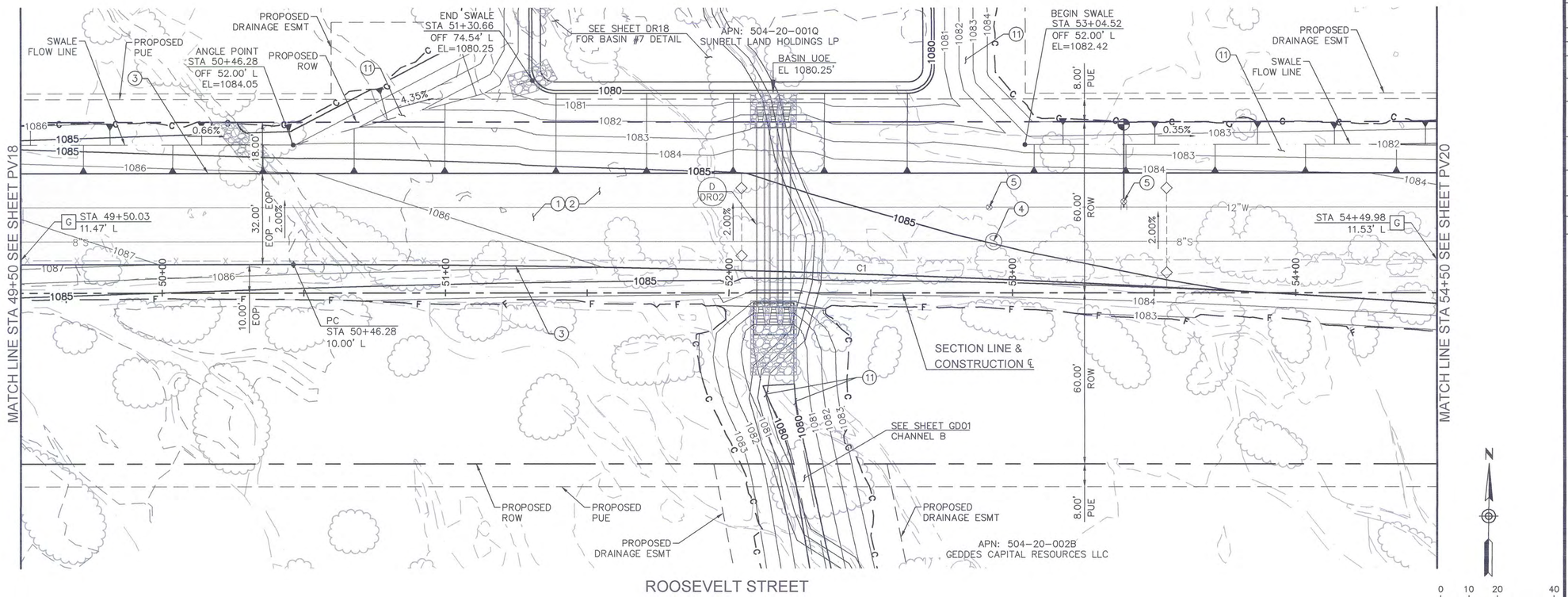
AS-BUILT SEAL

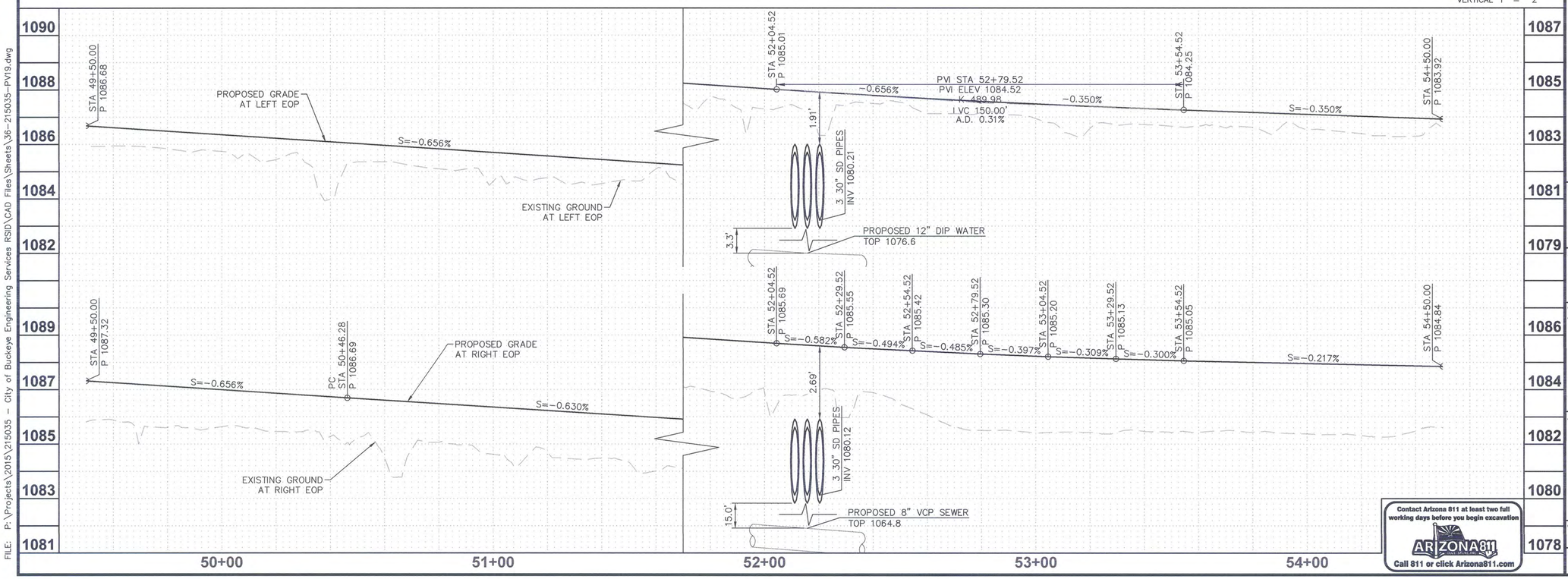
DESIGN SEAL
23232 PETER H. HEMINGWAY
EXPIRES 03/31/2018

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER PV18
35 OF 125
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\35-215035-PV18.dwg





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REMOVAL NOTES

NO.	DESC.	QTY	UNITS
G	REMOVE FENCE RAILS & POSTS	500	LF

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	1,983	SF
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	1,983	SF
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	1,000	LF
4	ADJUST SANITARY SEWER MANHOLE TO FINISHED GRADE PER MAG STD DET 422	1	EA
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 TYPE A	2	EA
11	GRADING FOR DRAINAGE	1	LS

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
C1	4°35'16"	5930.00'	474.83'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
ROOSEVELT STREET
STA 49+50 TO 54+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

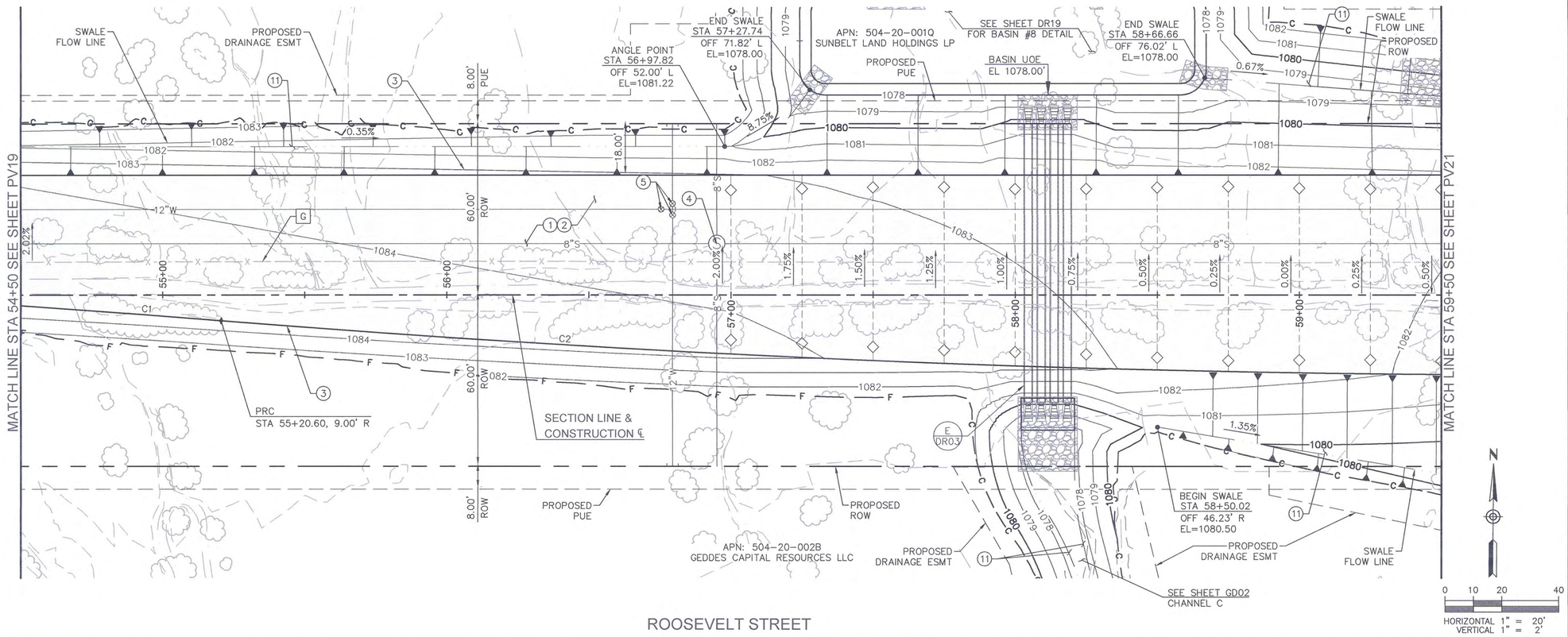
SUBMITTAL: 3RD SUBMITTAL

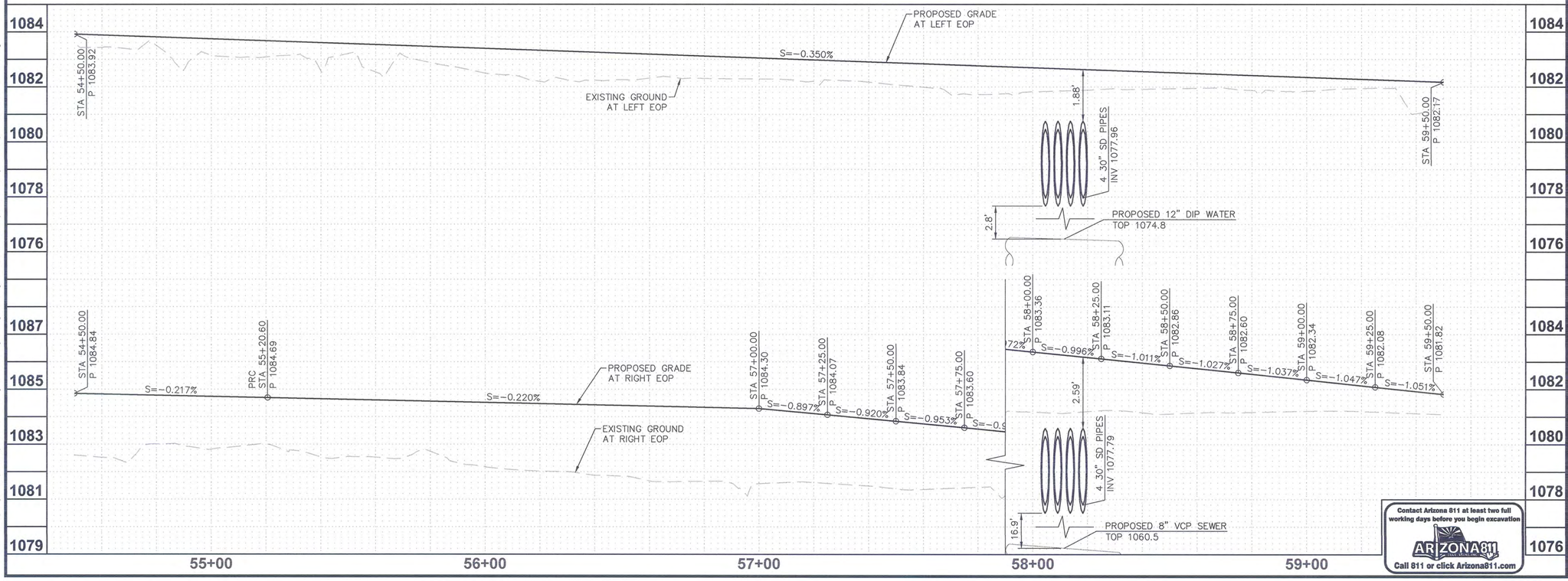
AS-BUILT SEAL

DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
23232
PETER H. HEMINGWAY
Date Signed 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER PV19
36 OF 125
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

PLOT DATE: Dec 13, 2017
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\36-215035-PV19.dwg





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REMOVAL NOTES

NO.	DESC.	QTY	UNITS
G	REMOVE FENCE (RAILS & POSTS)	500	LF

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	3,385	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	3,385	SY
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	1,001	LF
4	ADJUST SANITARY SEWER MANHOLE TO FINISHED GRADE PER MAG STD DET 422	1	EA
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 TYPE A	3	EA
11	GRADING FOR DRAINAGE	1	LS

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
C1	4°35'16"	5930.00'	474.83'
C2	4°35'16"	5930.00'	474.83'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
ROOSEVELT STREET
STA 54+50 TO 59+50

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

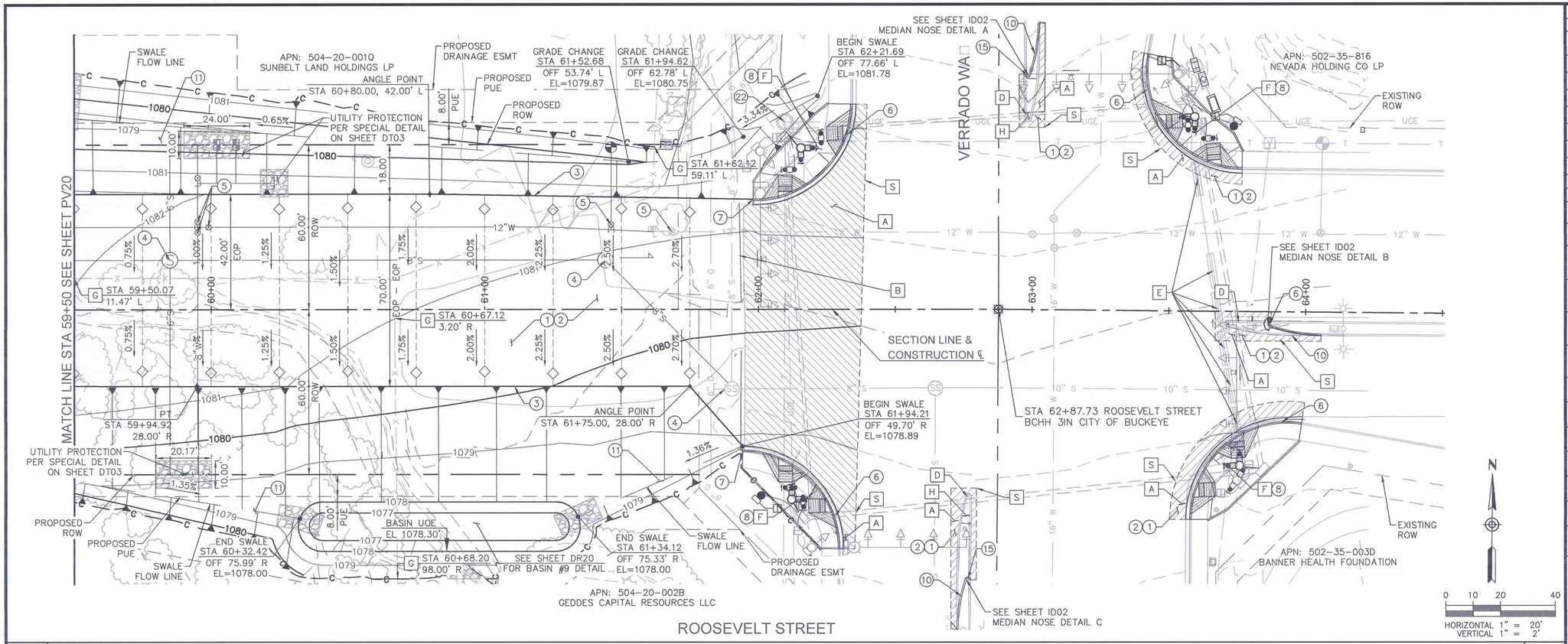
COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

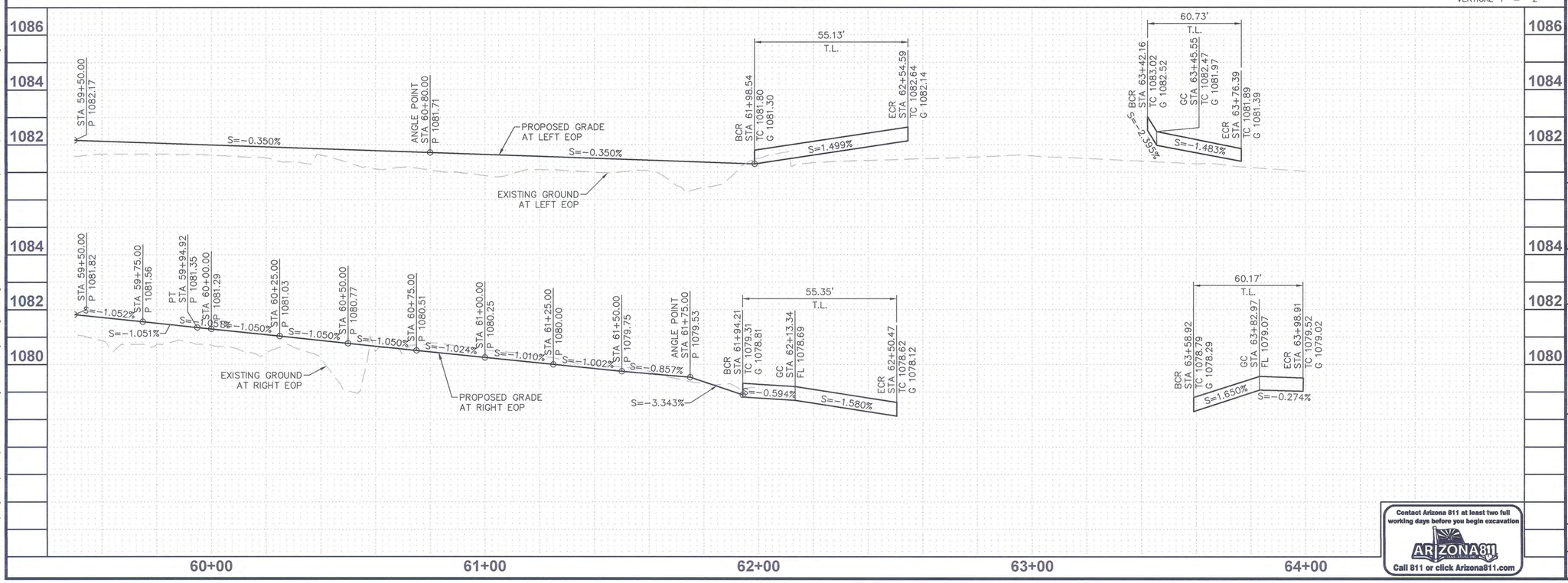
AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
EXPIRES 03/31/2018

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER PV20
37 OF 125
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

PLOT DATE: Dec 13, 2017
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\37-215035-PV20.dwg





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

REMOVAL NOTES

NO.	DESC.	QTY	UNITS
A	REMOVE AC PAVEMENT (INCLUDES SUBGRADE/SUBBASE)	638	SY
B	REMOVE BARRICADE	73	LF
D	REMOVE CONCRETE CURB	423	LF
E	REMOVE TEMPORARY CONCRETE BARRIER	6	EA
F	REMOVE RAMP	4	EA
G	REMOVE FENCE (RAILS & POSTS)	328	LF
H	REMOVE CONCRETE SLAB	61	SF
S	SAWCUT 2" MINIMUM & MATCH EXISTING	581	LF

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	2,587	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	2,587	SY
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	502	LF
4	ADJUST SANITARY SEWER MANHOLE TO FINISHED GRADE PER MAG STD DET 422	3	EA
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 TYPE A	5	EA
6	CURB & GUTTER PER MAG STD DET 220-1 TYPE A	233	LF
7	1' CURB TERMINATION PER DETAIL SHEET DT01	2	EA
8	SIDEWALK RAMP PER COB STD DET 63240	4	EA
10	SINGLE CURB PER MAG STD DET 222 TYPE A	60	LF
11	GRADING FOR DRAINAGE	1	LS
15	MEDIAN NOSE PER COB STD DET 63220	2	EA
22	ADJUST ELECTRICAL MANHOLE FRAME AND COVER TO FINISHED GRADE PER APS REQUIREMENTS / SPECIFICATIONS	1	EA

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
ROOSEVELT STREET
STA 59+50 TO 64+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
DATE SIGNED 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

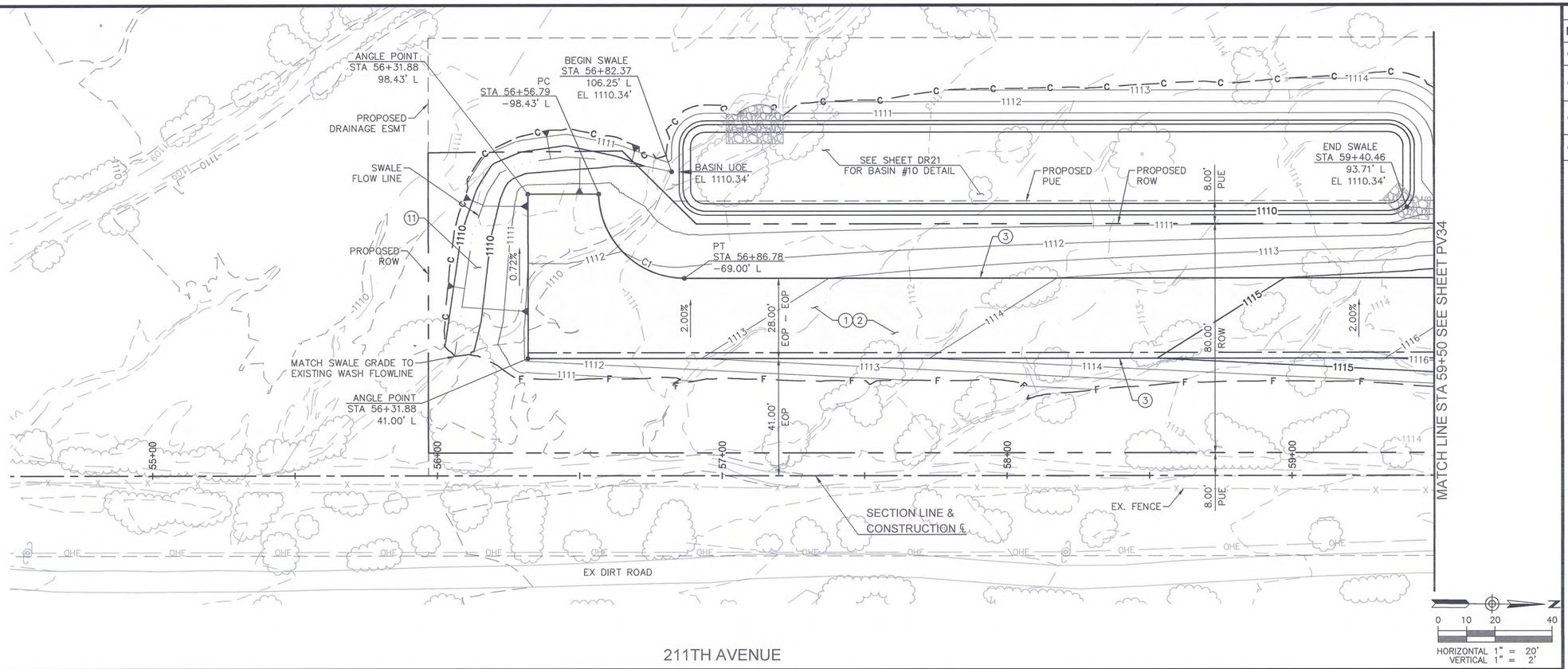
COB PERMIT #

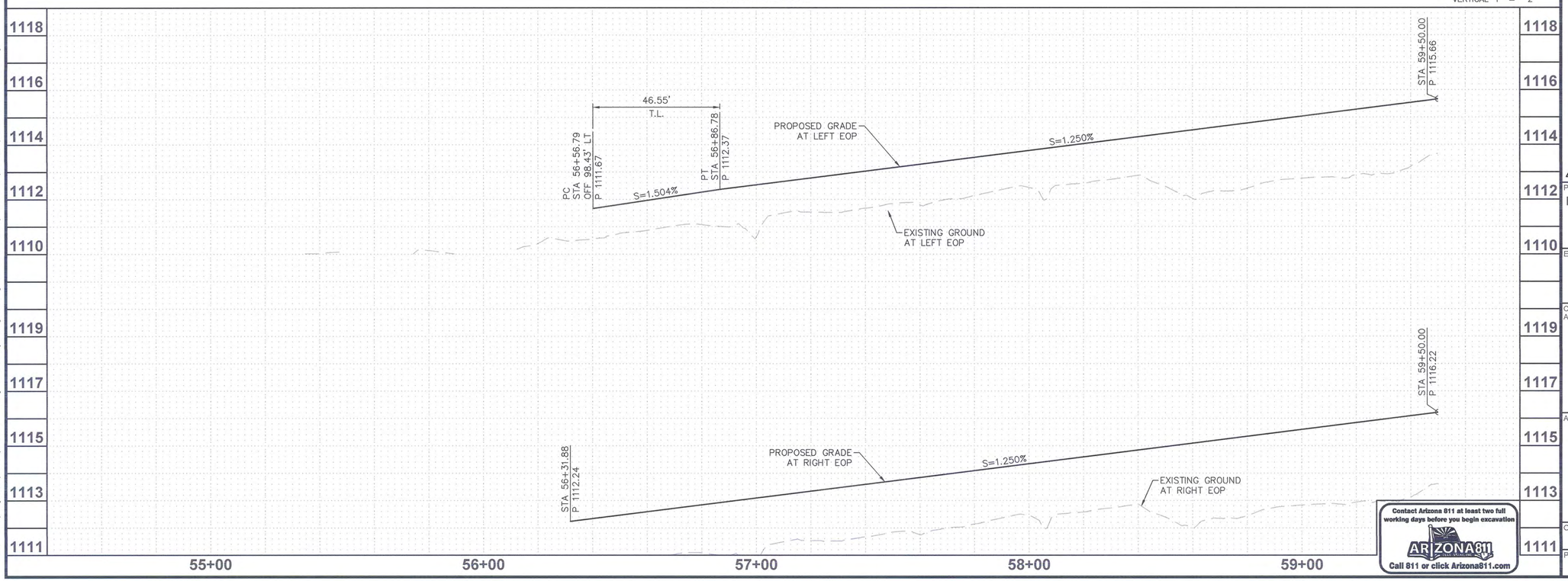
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER	SHEET NUMBER
2014-071	PV21

38 OF 125

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\38-215035-PV21.dwg





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	1,093	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	1,093	SY
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	710	LF
11	GRADING FOR DRAINAGE	1	LS

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
C1	88°54'12"	30.00'	46.55'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
211TH AVENUE
STA 54+50 TO 59+50

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

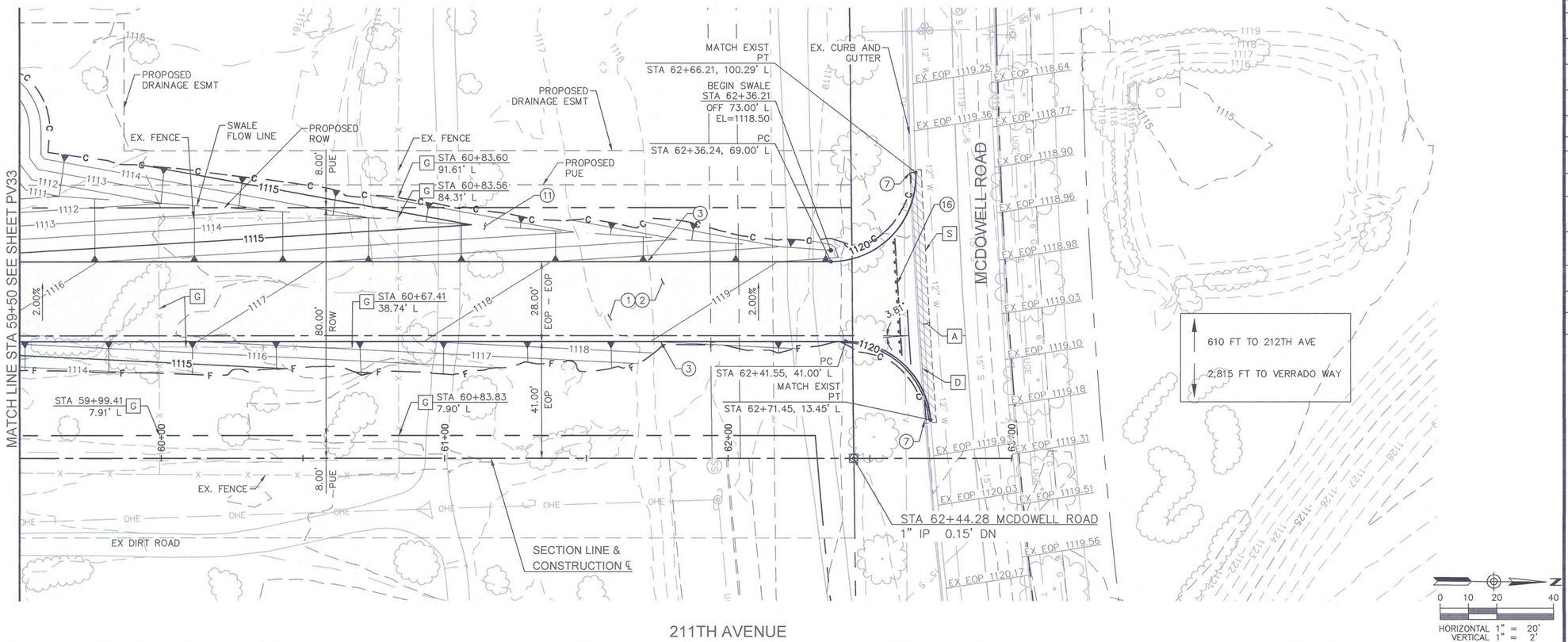
COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

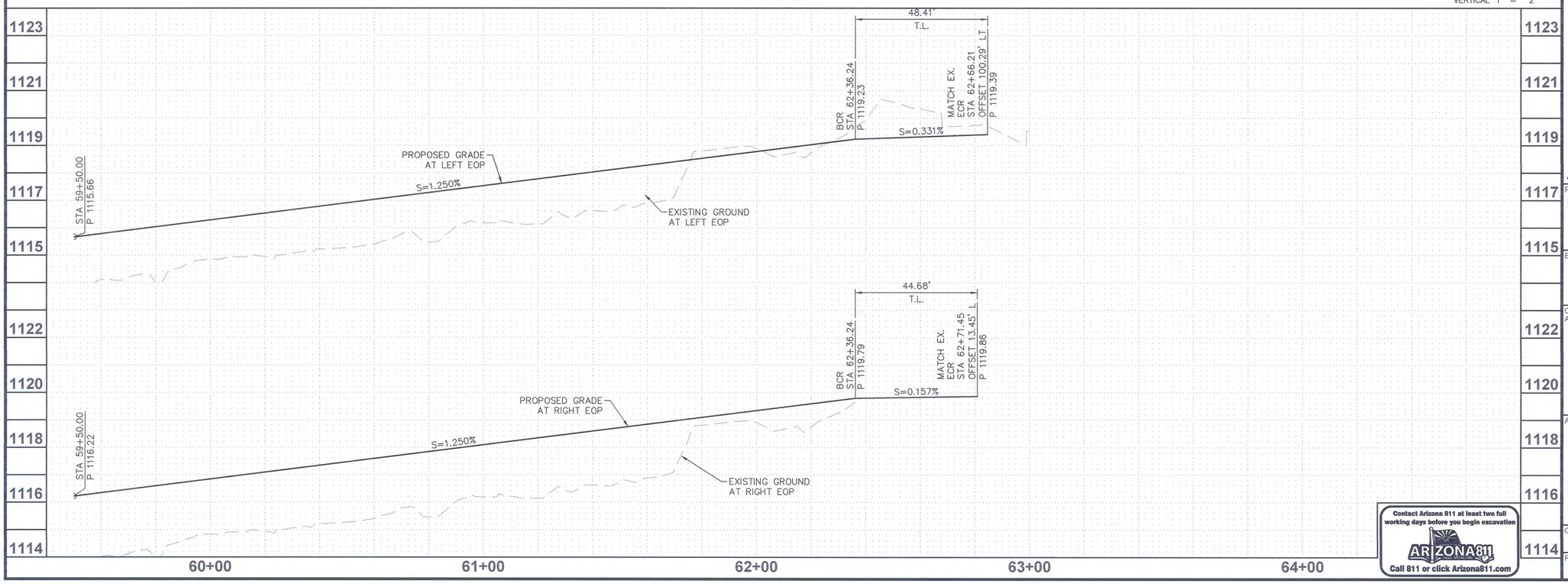
DESIGN SEAL
23232
PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
Date Signed 12/11/17
ARIZONA, U.S.A.
EXPIRES 03/31/2018

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER PV22
39 OF 125
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

PLOT DATE: Dec 13, 2017
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\39-215035-PV22.dwg



211TH AVENUE



Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

REMOVAL NOTES

NO.	DESC.	QTY	UNITS
A	REMOVE AC PAVEMENT (INCLUDES SUBGRADE/SUBBASE)	40	SY
D	REMOVE CONCRETE CURB	89	LF
G	REMOVE FENCE (RAILS & POSTS)	245	LF
S	SAWCUT 2" MINIMUM & MATCH EXISTING	97	LF

CONSTRUCTION NOTES

NO.	DESC.	QTY	UNITS
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO. 1	1,053	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE/SUBBASE PREP)	1,053	SY
3	THICKENED EDGE OF PAVEMENT PER MAG STD DET 201 TYPE "A" WITH SAFETY EDGE PER MAG STD DET 201	671	LF
7	1' CURB TERMINATION PER DETAIL SHEET DT01	2	EA
11	GRADING FOR DRAINAGE	1	LS
16	INSTALL BARRICADE PER MAG STD DET 130 TYPE A WITH OM4-1 OBJECT MARKERS.	41	LF

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
C1	85°19'27"	30.00'	44.68'
C2	92°27'33"	30.00'	48.41'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWAY PLAN AND PROFILE
211TH AVENUE
STA 59+50 TO 64+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
Date Signed 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

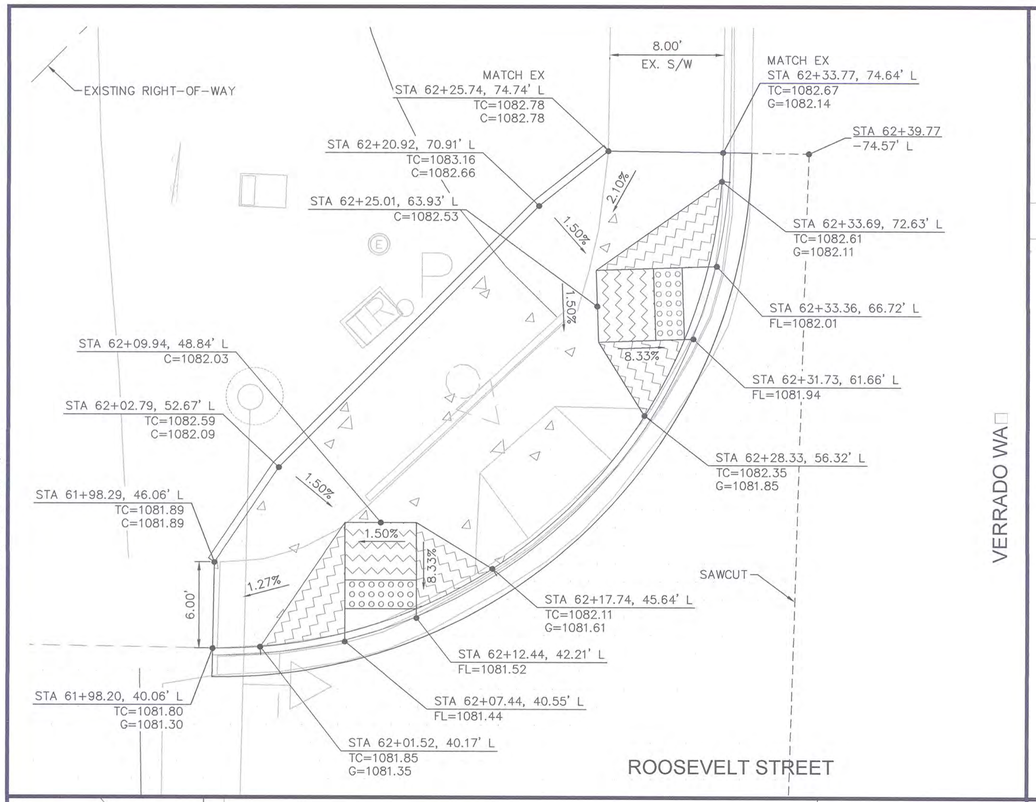
COB PERMIT #

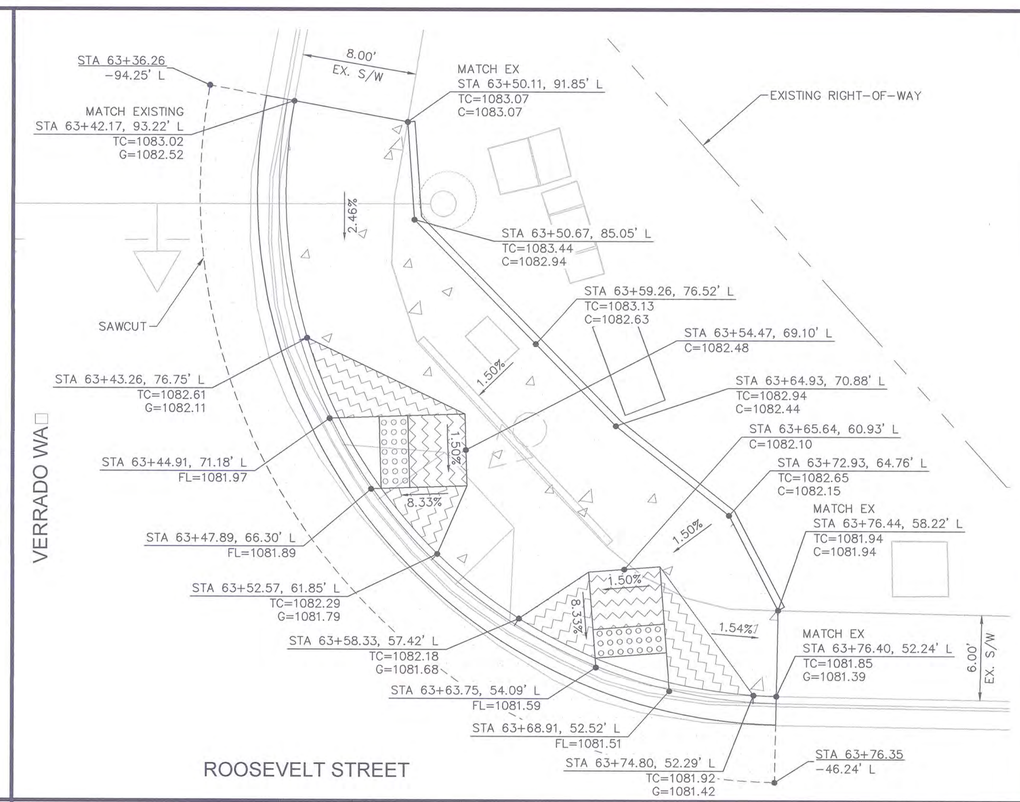
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER	
2014-071	PV23	40 OF 125

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\40-215035-PV23.dwg





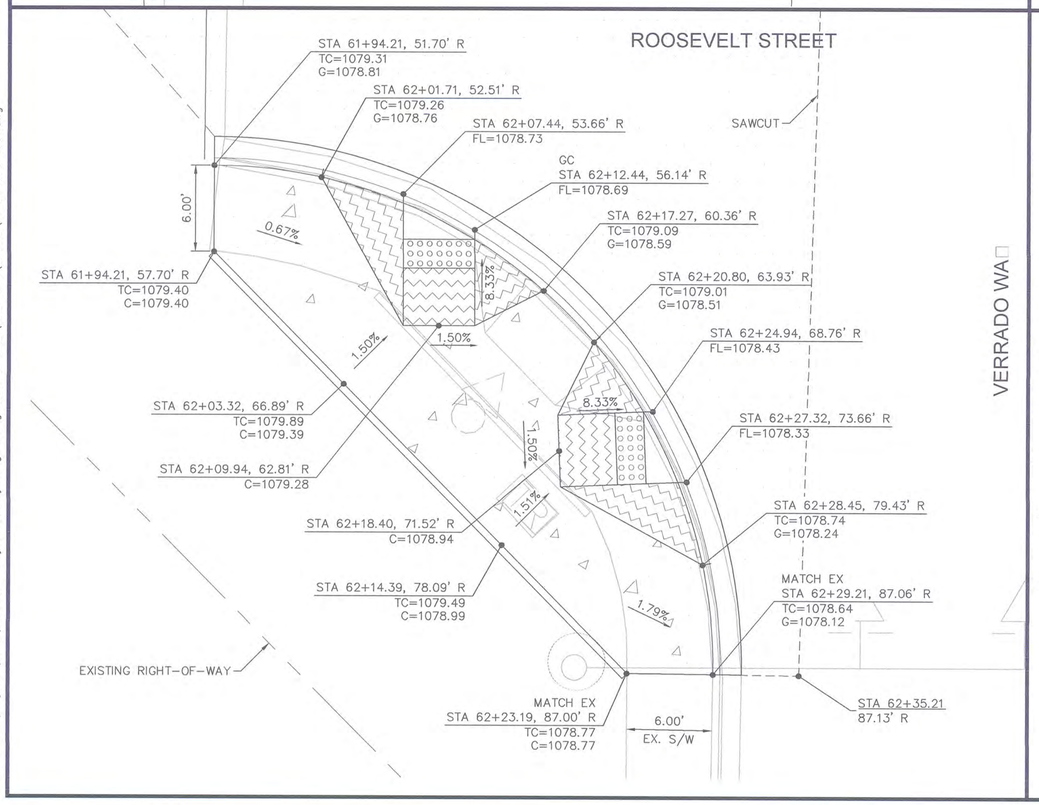
SYMBOL LEGEND

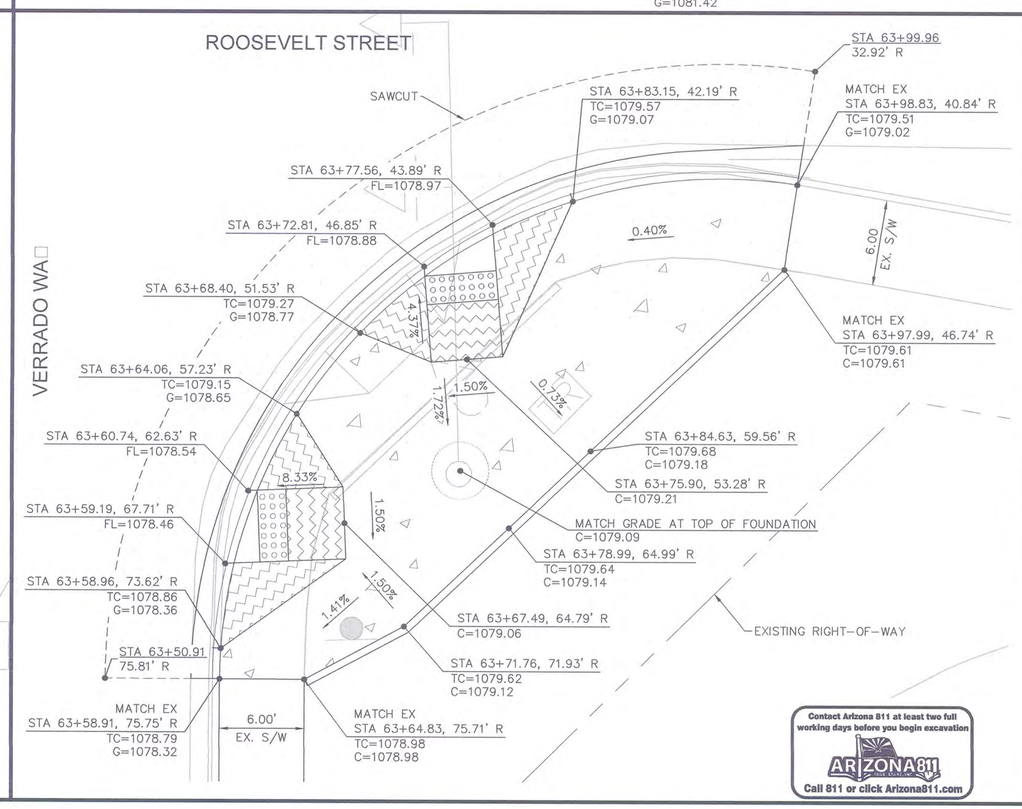
- SAWCUT LINE
- BACK OF CURB
- NEW RAMP
- NEW SIDEWALK
- NEW AC PAVEMENT

N

0 2.5 5 10

HORIZONTAL 1" = 5'





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

NOTES:

1. GEOMETRIC DATA SHOWN AT BACK OF CURB AND BACK OF SIDEWALK/DRIVEWAY/RAMP.
2. SEE ROADWAY PLAN SHEETS FOR ADDITIONAL ALIGNMENT AND GEOMETRIC INFORMATION FOR PROPOSED IMPROVEMENTS.
3. STATION/OFFSET DATA INDICATED FROM ROOSEVELT STREET CONSTRUCTION CENTERLINE.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT

HORIZONTAL CONTROL SHEET

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
ARIZONA, U.S.A.
EXPIRES 03/31/2018

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER	SHEET NUMBER
2014-071	ID01 41 OF 125

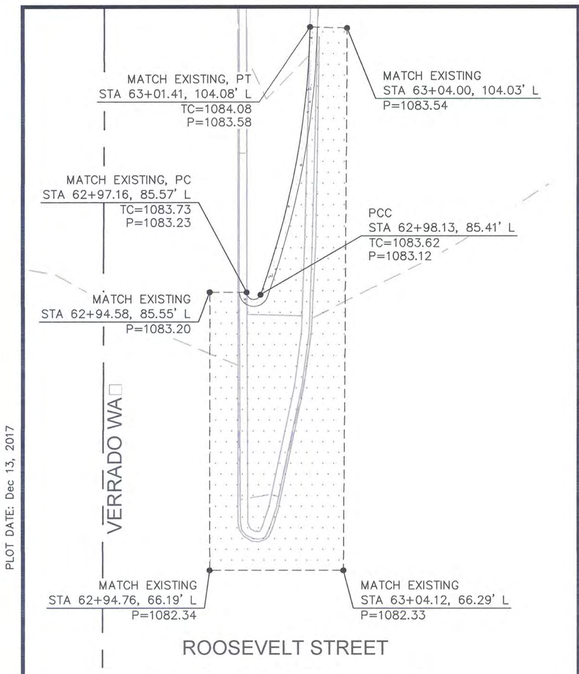
SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

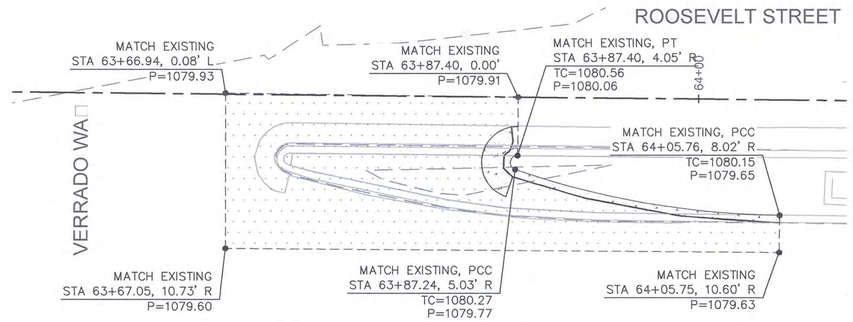
COB PERMIT #

PLOT DATE: Dec 13, 2017

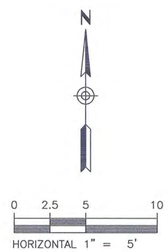
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\41-215035-ID01.dwg



MEDIAN NOSE DETAIL A



MEDIAN NOSE DETAIL B

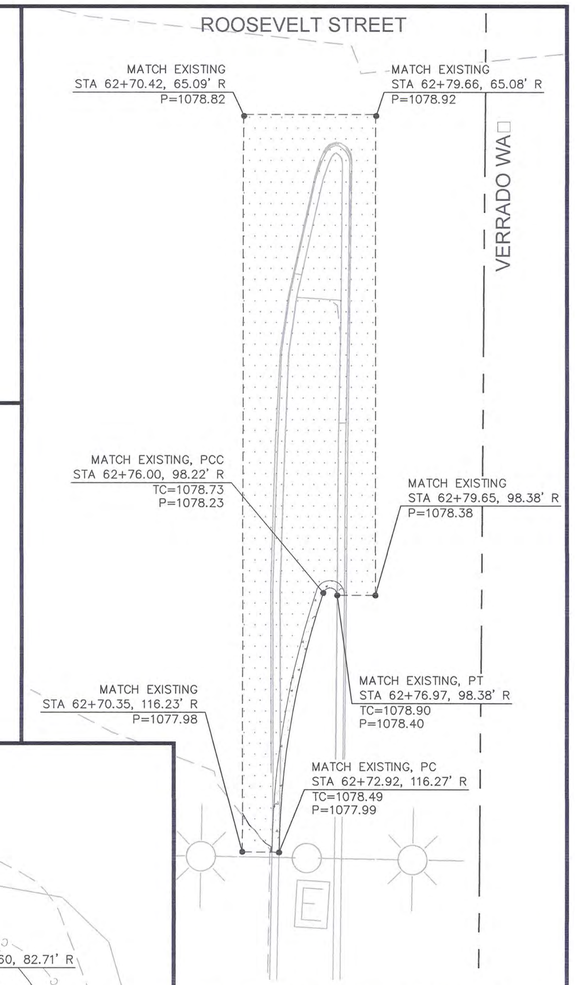


NOTES:

1. GEOMETRIC DATA SHOWN AT BACK OF CURB
2. SEE ROADWAY PLAN SHEETS FOR ADDITIONAL ALIGNMENT AND GEOMETRIC INFORMATION FOR PROPOSED IMPROVEMENTS.
3. STATION/OFFSET DATA INDICATED FROM ROOSEVELT STREET CONSTRUCTION CENTERLINE.

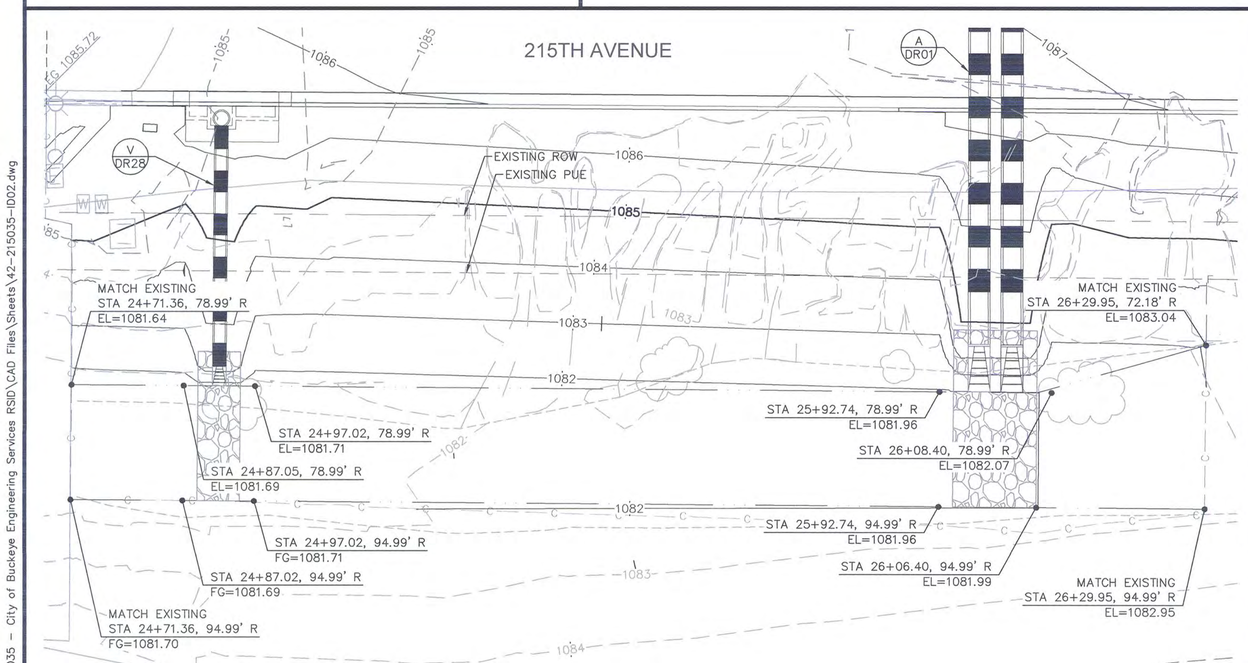
SYMBOL LEGEND

- SAWCUT LINE
- BACK OF CURB
- NEW CURB
- NEW AC PAVEMENT

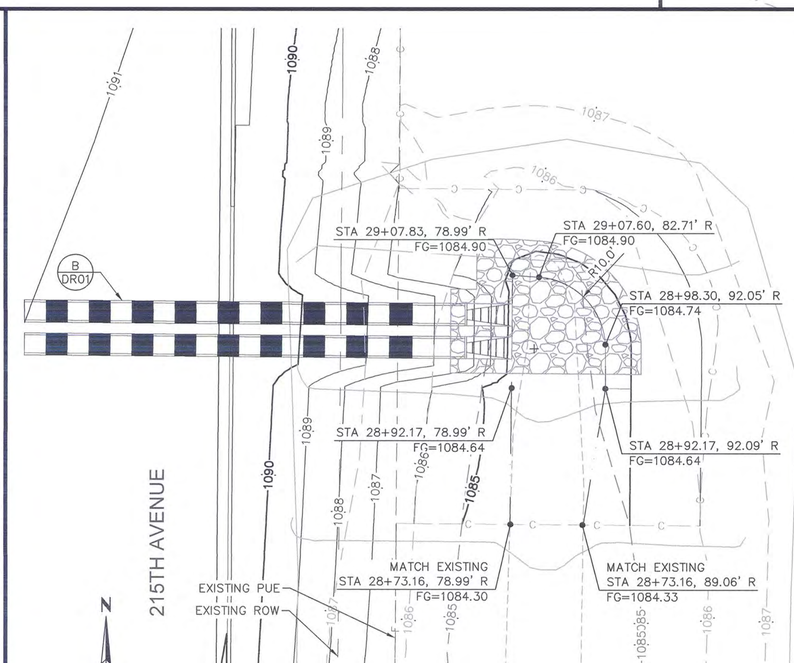


MEDIAN NOSE DETAIL C

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.



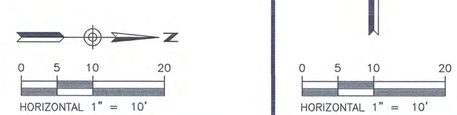
CHANNEL GRADING DETAIL A



CHANNEL GRADING DETAIL B

NOTES:

1. GEOMETRIC DATA SHOWN AT BASE OF CHANNEL
2. STATION/OFFSET DATA INDICATED FROM 215TH AVENUE CONSTRUCTION CENTERLINE.



Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
HORIZONTAL CONTROL SHEET

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
Date Signed 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

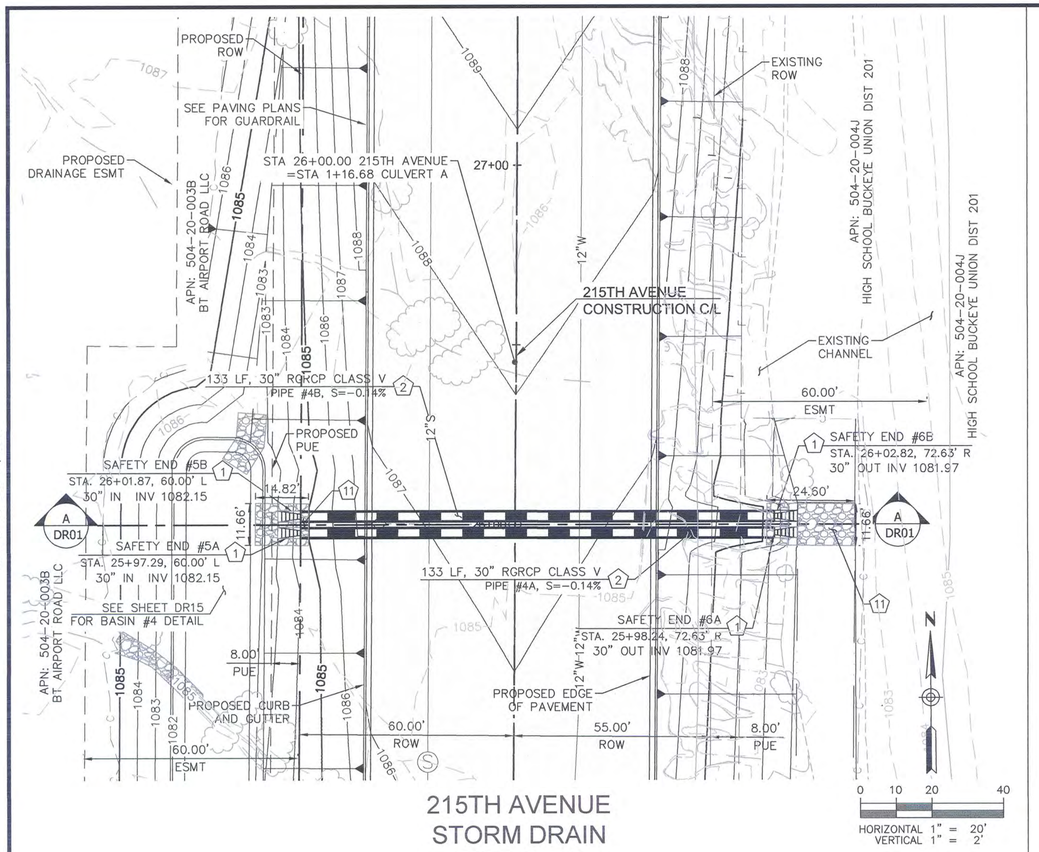
PROJECT NUMBER	SHEET NUMBER	
2014-071	ID02	42 OF 125

COB PLAN TRACKING # ENG-16-00003

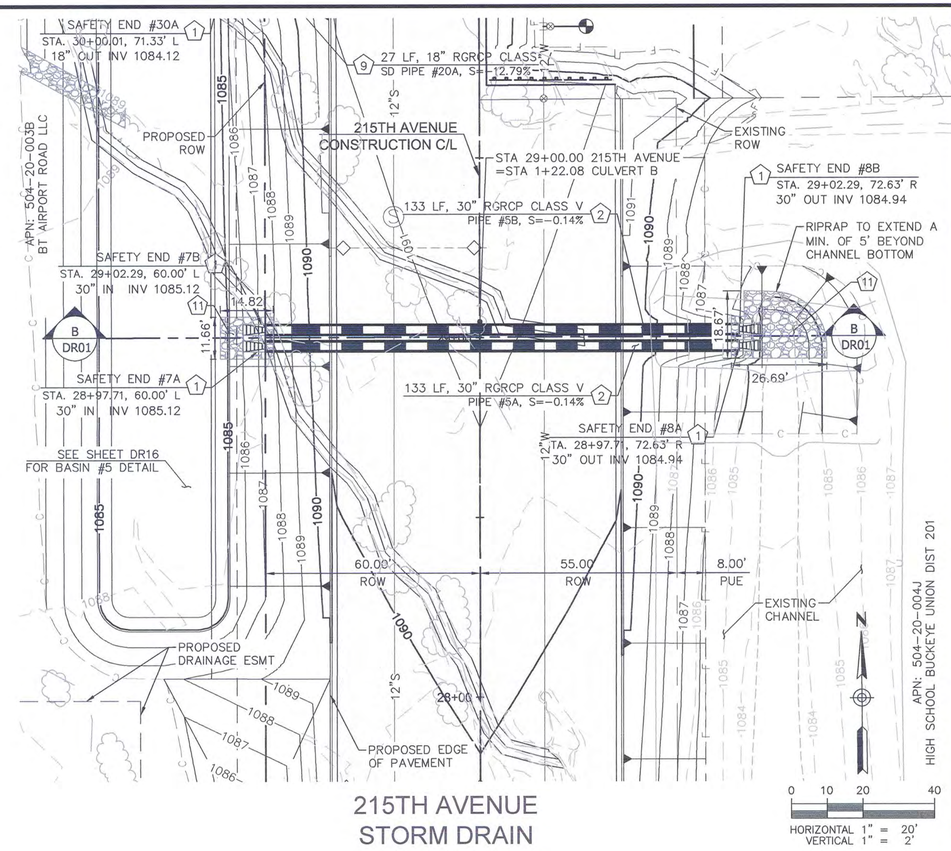
COB PERMIT #

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\42-215035-ID02.dwg



215TH AVENUE
STORM DRAIN
PIPE "A-A"



215TH AVENUE
STORM DRAIN
PIPE "B-B"

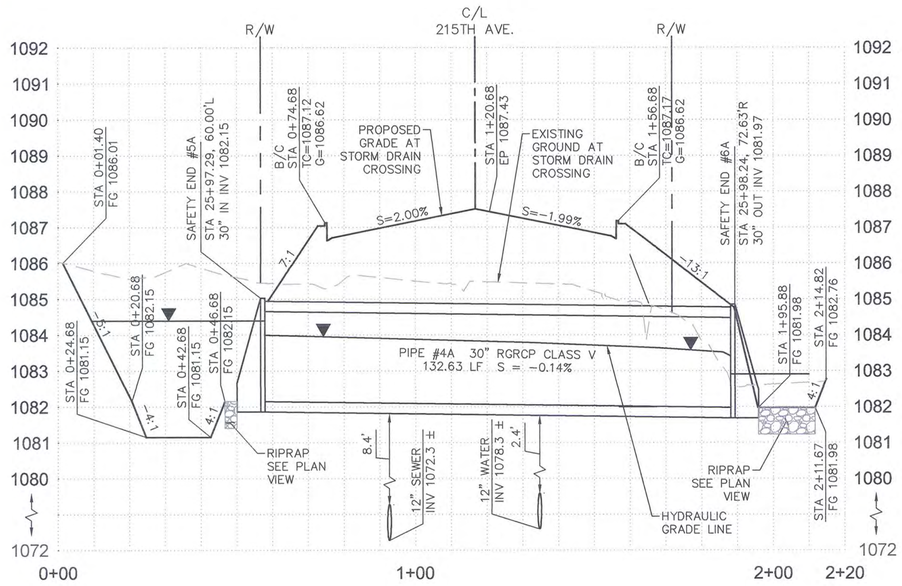
DRAINAGE NOTES

NO.	DESCRIPTION	QTY	UNITS
1	SAFETY END SECTION WITH TYPE 3 CONNECTION PER DETAIL ON SHEET DT01	8	EA
2	30" CLASS V RGRCP PIPE PER MAG SPEC 601	532	LF
4	GRADING FOR DRAINAGE	1	LS
11	DUMPED RIPRAP (D50) 9", PER MAG SPEC SECTION 220 AND 703, THICKNESS 18", WITH GEOSYNTHETIC FABRIC PER MAG SEC 220	99	SY

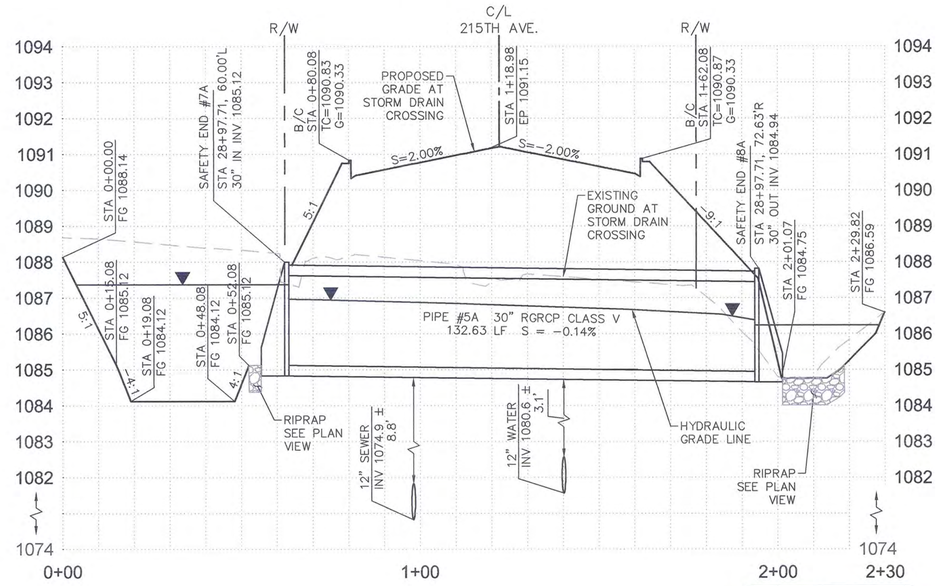
NOTES:

1. STATION AND OFFSET CALLOUTS TO CULVERT END SECTIONS ARE TO THE CENTER OF THE END OF THE PIPE. LEADERS SHOWN TO EDGE OF END SECTIONS FOR GRAPHICAL CLARITY ONLY.
2. CULVERT PIPE SPACING IS AS FOLLOWS:
   18" RGRCP: 3'-4" O.C.
   30" RGRCP: 4'-7" O.C.
3. IF ANY PORTION OF THE STORM DRAIN PIPE ENCROACHES INTO THE PAVEMENT AGGREGATE BASE COURSE THEN THE TRENCH SHALL BE BACKFILLED USING 1/2 SACK CLSM SLURY TO THE ELEVATION OF THE BOTTOM OF THE PAVEMENT PER MAG SPEC. 601 & 604.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.



STORM DRAIN PIPE
SECTION "A-A"



STORM DRAIN PIPE
SECTION "B-B"

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
DRAINAGE PLAN AND PROFILE
215TH AVENUE

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
ARIZONA, U.S.A.
12/11/2017
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

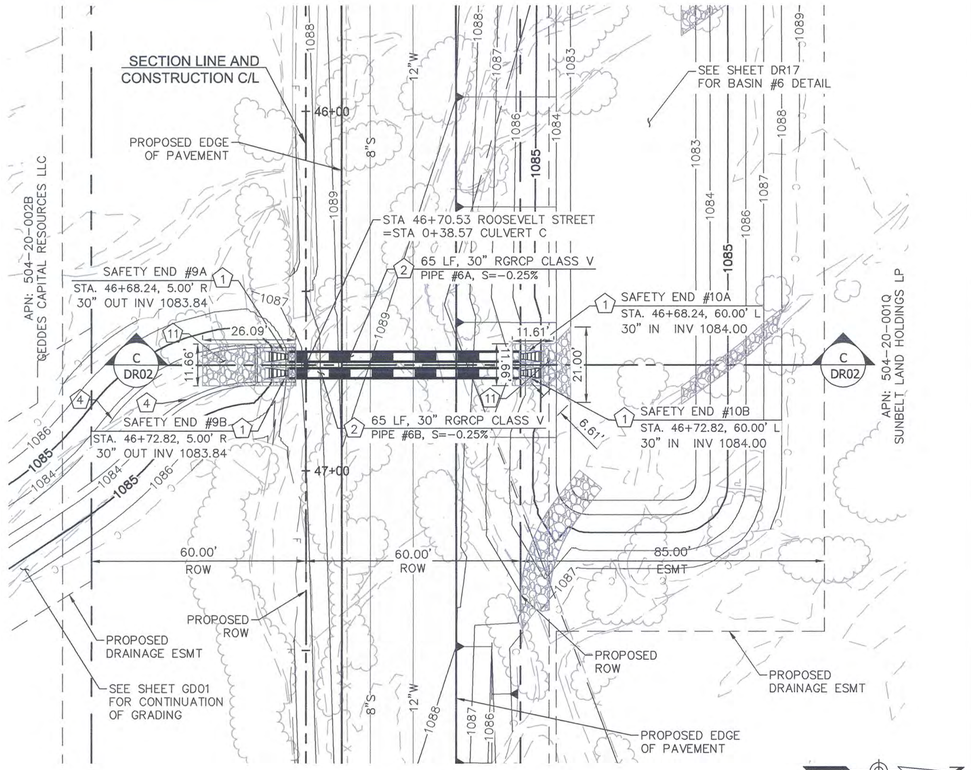
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

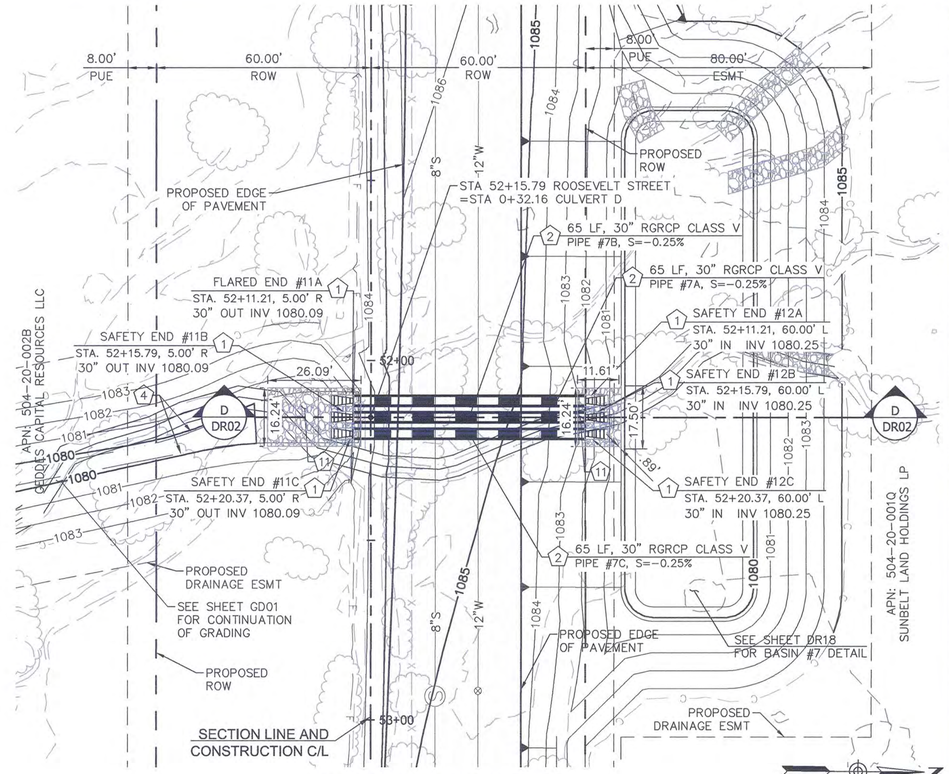
PROJECT NUMBER	SHEET NUMBER
2014-071	DR01 43 OF 125

PLOT DATE: Dec 14, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\43-213035-DR01.dwg

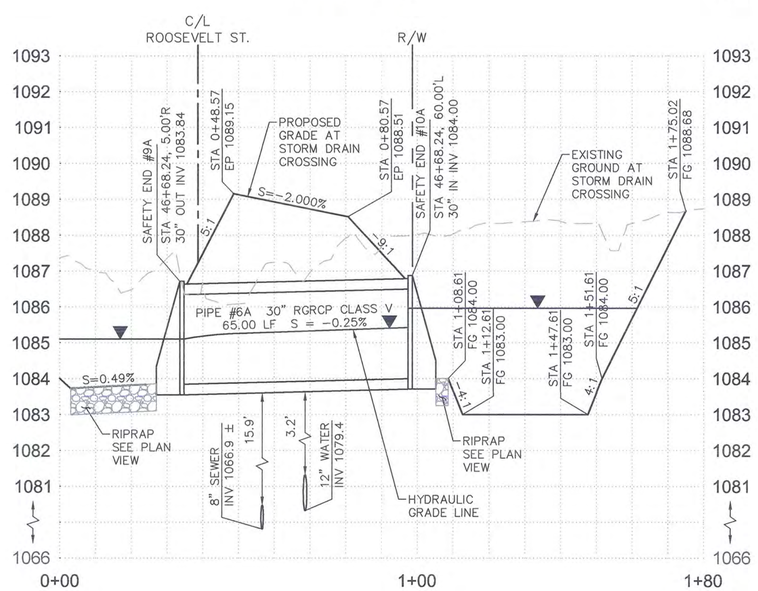


ROOSEVELT STREET STORM DRAIN PIPE "C-C"

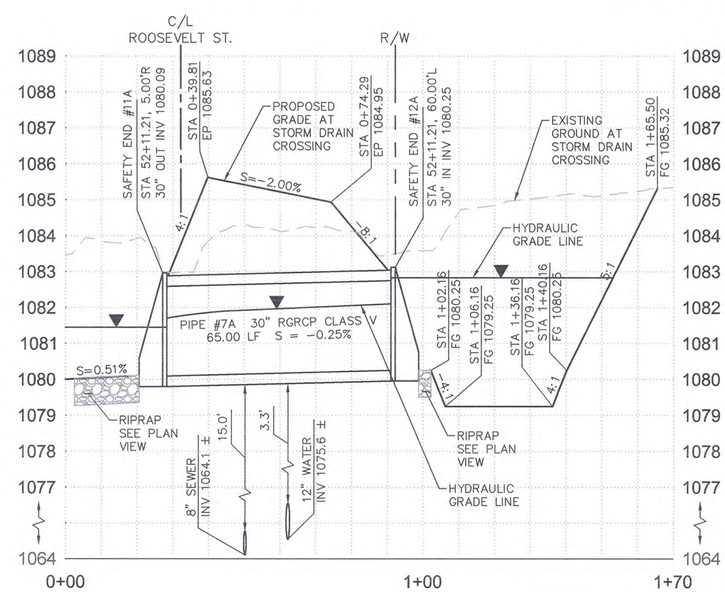


ROOSEVELT STREET STORM DRAIN PIPE "D-D"

HORIZONTAL 1" = 20'
VERTICAL 1" = 2'



STORM DRAIN PIPE SECTION "C-C"



STORM DRAIN PIPE SECTION "D-D"

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

DRAINAGE NOTES

NO.	DESCRIPTION	QTY	UNITS
1	SAFETY END SECTION WITH TYPE 3 CONNECTION PER DETAIL ON SHEET DT01	10	EA
2	30" CLASS V RGRCP PIPE PER MAG SPEC 601	325	LF
4	GRADING FOR DRAINAGE	1	LS
11	DUMPED RIPRAP (D50: 9") PER MAG SPEC SECTION 220 AND 703; THICKNESS 18"; WITH GEOSYNTHETIC FABRIC PER MAG SEC 220	103	SY

NOTES:

1. STATION AND OFFSET CALLOUTS TO CULVERT END SECTIONS ARE TO THE CENTER OF THE END OF THE PIPE. LEADERS SHOWN TO EDGE OF END SECTIONS FOR GRAPHICAL CLARITY ONLY.
2. CULVERT PIPE SPACING IS AS FOLLOWS:
   18" RGRCP: 3'-4" O.C.
   30" RGRCP: 4'-7" O.C.
3. IF ANY PORTION OF THE STORM DRAIN PIPE ENCROACHES INTO THE PAVEMENT AGGREGATE BASE COURSE THEN THE TRENCH SHALL BE BACKFILLED USING 1/2 SACK CLSM SLURY TO THE ELEVATION OF THE BOTTOM OF THE PAVEMENT PER MAG SPEC. 601 & 604.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
DRAINAGE PLAN AND PROFILE
ROOSEVELT STREET

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

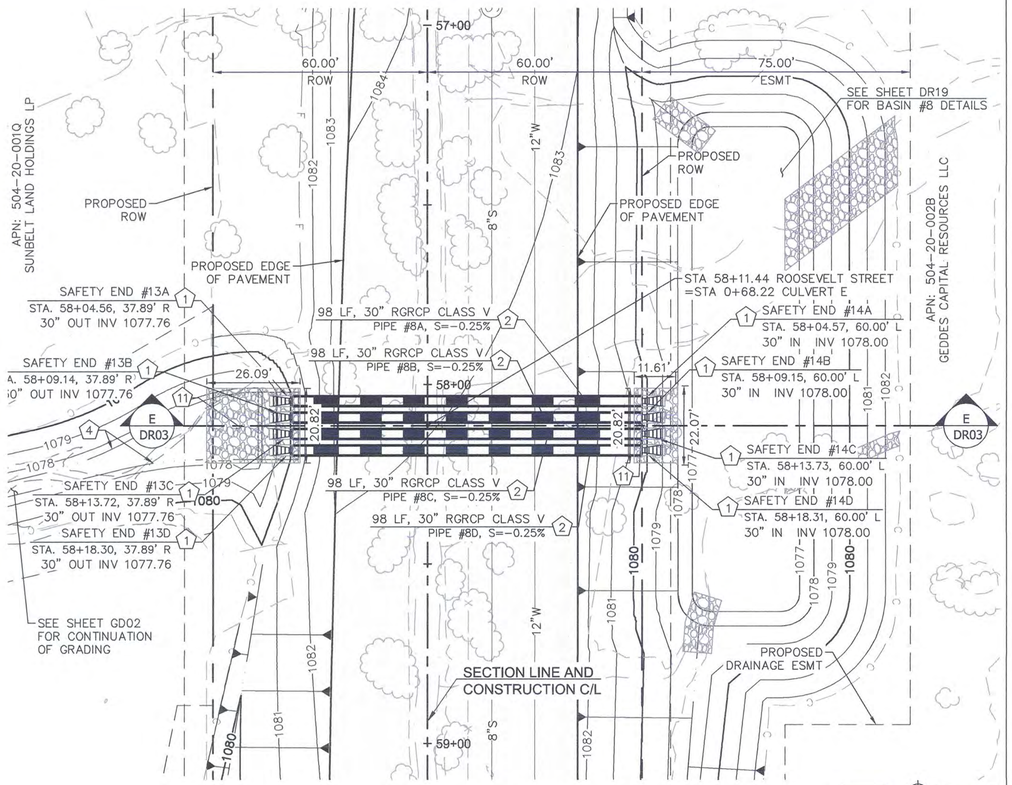
AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
EXPIRES 03/31/2018

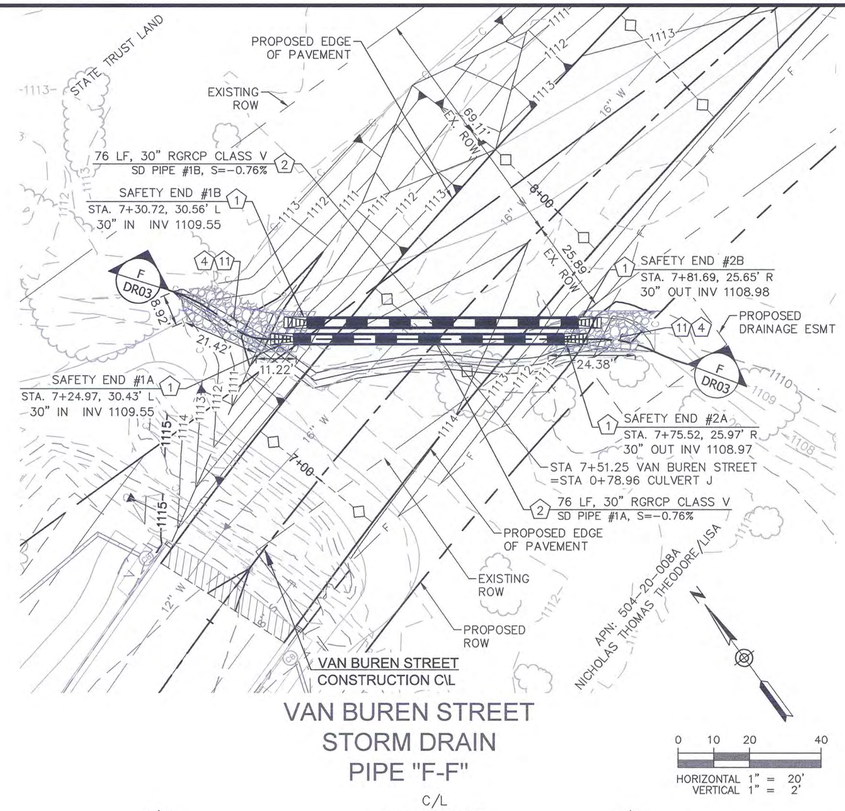
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER 2014-071	SHEET NUMBER DR02 — 44 OF 125

SUBMITTAL: 3RD SUBMITTAL
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

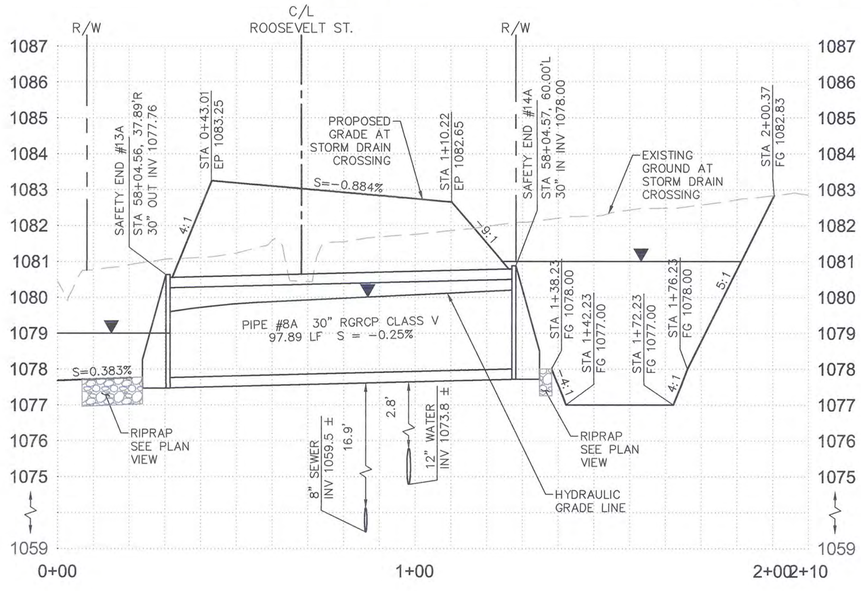
PLOT DATE: Dec 13, 2017
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\44-213035-DR02.dwg



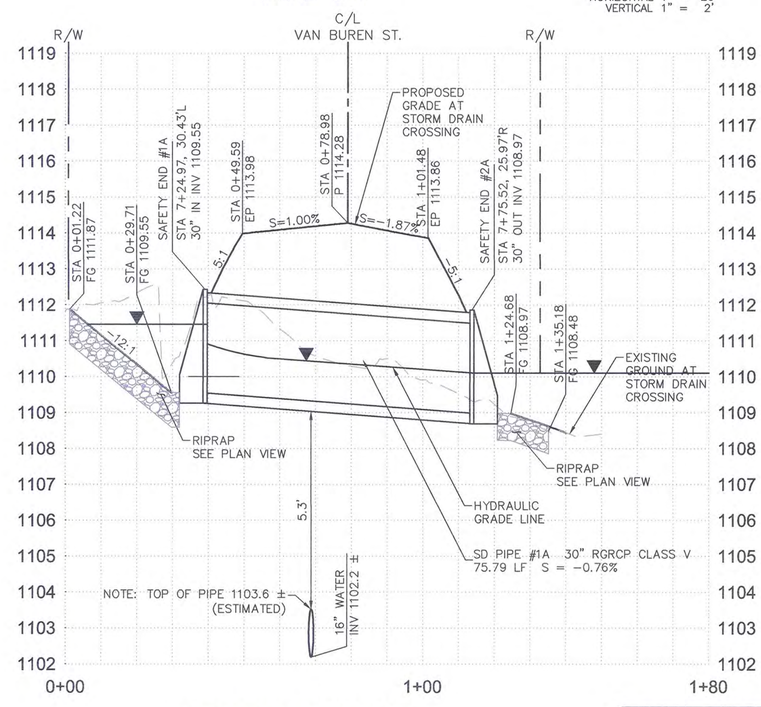
ROOSEVELT STREET STORM DRAIN PIPE "E-E"



VAN BUREN STREET STORM DRAIN PIPE "F-F"



STORM DRAIN PIPE SECTION "E-E"



STORM DRAIN PIPE SECTION "F-F"

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

DRAINAGE NOTES

NO.	DESCRIPTION	QTY	UNITS
1	SAFETY END SECTION WITH TYPE 3 CONNECTION PER DETAIL ON SHEET DT01	12	EA
2	30" CLASS V RGRCP PIPE PER MAG SPEC 601	544	LF
4	GRADING FOR DRAINAGE	1	LS
11	DUMPED RIPRAP (D50: 9") PER MAG SPEC SECTION 220 AND 703. THICKNESS 18". WITH GEOSYNTHETIC FABRIC PER MAG SEC 220	134	SY

NOTES:

1. STATION AND OFFSET CALLOUTS TO CULVERT END SECTIONS ARE TO THE CENTER OF THE END OF THE PIPE. LEADERS SHOWN TO EDGE OF END SECTIONS FOR GRAPHICAL CLARITY ONLY.
2. CULVERT PIPE SPACING IS AS FOLLOWS:
   18" RGRCP: 3'-4" O.C.
   30" RGRCP: 4'-7" O.C.
3. IF ANY PORTION OF THE STORM DRAIN PIPE ENCROACHES INTO THE PAVEMENT AGGREGATE BASE COURSE THEN THE TRENCH SHALL BE BACKFILLED USING 1/2 SACK CLSM SLURRY TO THE ELEVATION OF THE BOTTOM OF THE PAVEMENT PER MAG SPEC. 601 & 604.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
DRAINAGE PLAN AND PROFILE
ROOSEVELT STREET

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

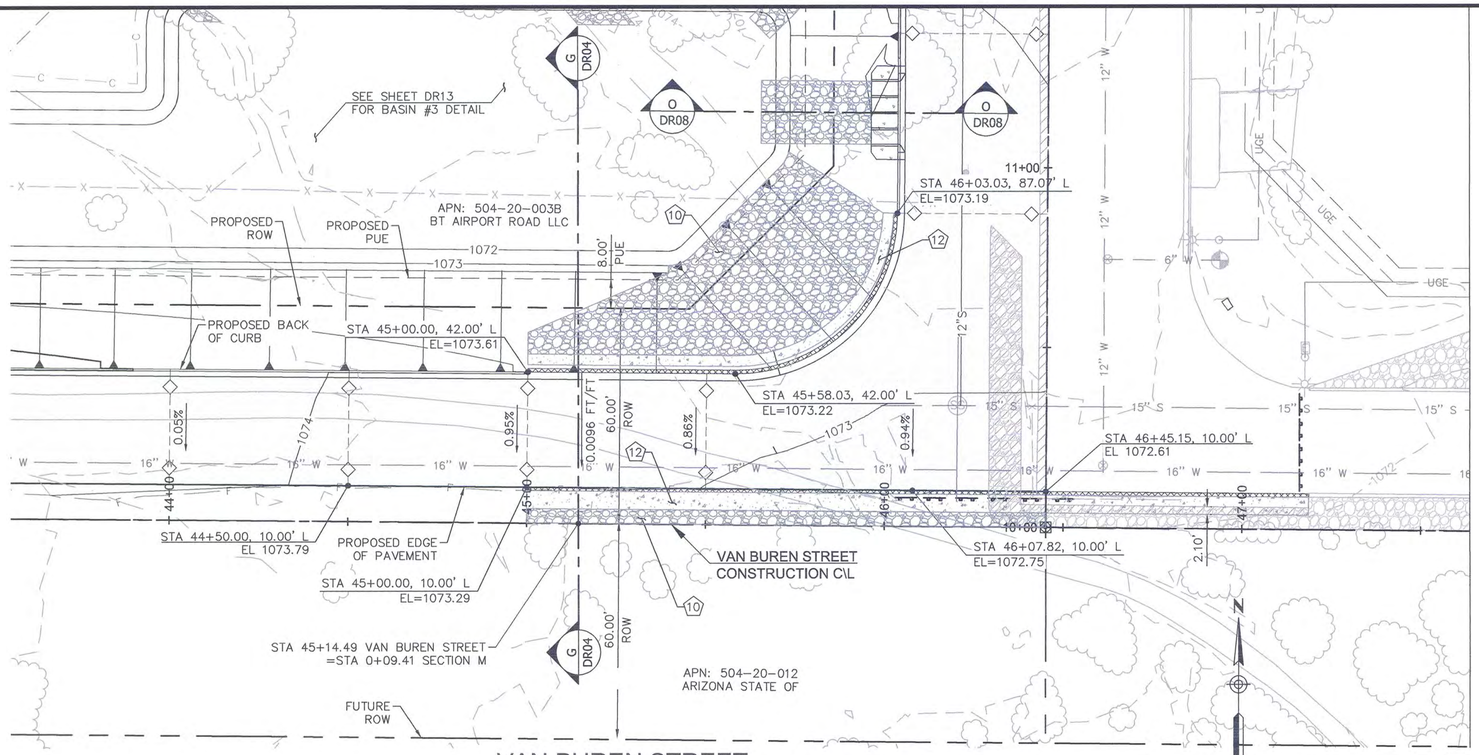
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER
2014-071	DR03 45 OF 125

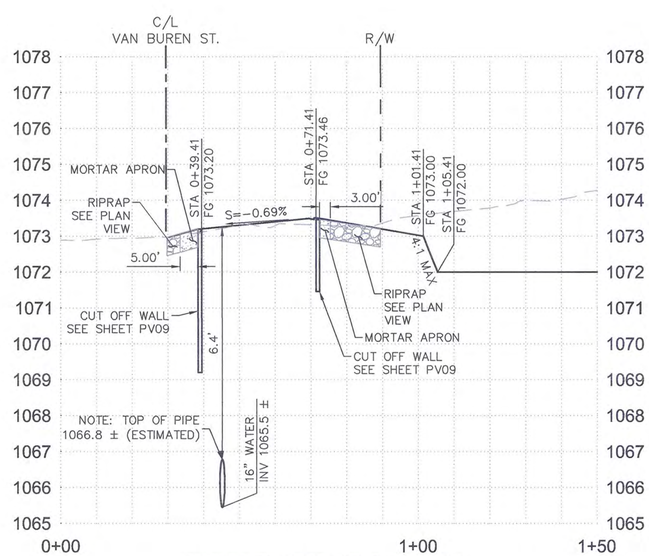
PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\45-213035-DR03.dwg



VAN BUREN STREET
LOW FLOW CROSSING
SECTION G-G

0 10 20 40
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'



LOW FLOW CROSSING
SECTION "G-G"

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

DRAINAGE NOTES

NO.	DESCRIPTION	QTY	UNITS
10	GROUTED RIPRAP (D50: 6"), PER MAG SPEC SECTION 220 AND 703; THICKNESS 12"; WITH GEOSYNTHETIC FABRIC PER MAG SEC 220	374	SY
12	PNEUMATICALLY PLACED MORTAR APRON PER DETAIL ON SHEET DT01	188	SY

NOTES:

1. STATION AND OFFSET CALLOUTS TO CULVERT END SECTIONS ARE TO THE CENTER OF THE END OF THE PIPE. LEADERS SHOWN TO EDGE OF END SECTIONS FOR GRAPHICAL CLARITY ONLY.
2. CULVERT PIPE SPACING IS AS FOLLOWS:
   18" RGRCP: 3'-4" O.C.
   30" RGRCP: 4'-7" O.C.
3. IF ANY PORTION OF THE STORM DRAIN PIPE ENCROACHES INTO THE PAVEMENT AGGREGATE BASE COURSE THEN THE TRENCH SHALL BE BACKFILLED USING 1/2 SACK CLSM SLURY TO THE ELEVATION OF THE BOTTOM OF THE PAVEMENT PER MAG SPEC. 601 & 604.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT

DRAINAGE PLAN AND PROFILE
VAN BUREN STREET

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

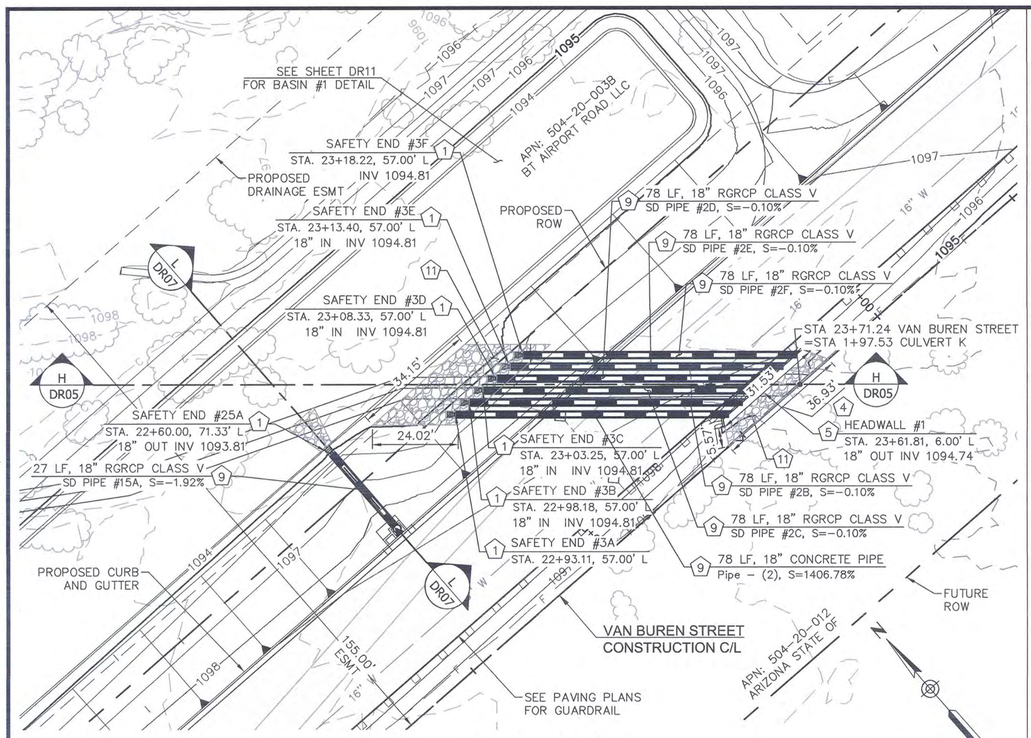
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

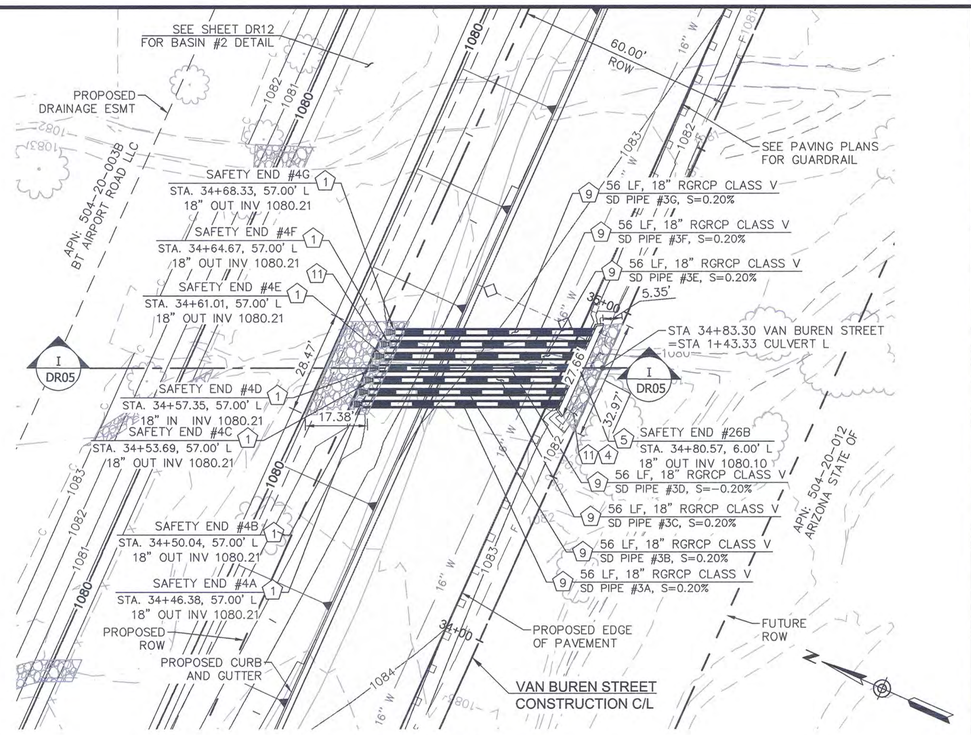
PROJECT NUMBER	SHEET NUMBER	
2014-071	DR04	46 OF 125

PLOT DATE: Dec 13, 2017

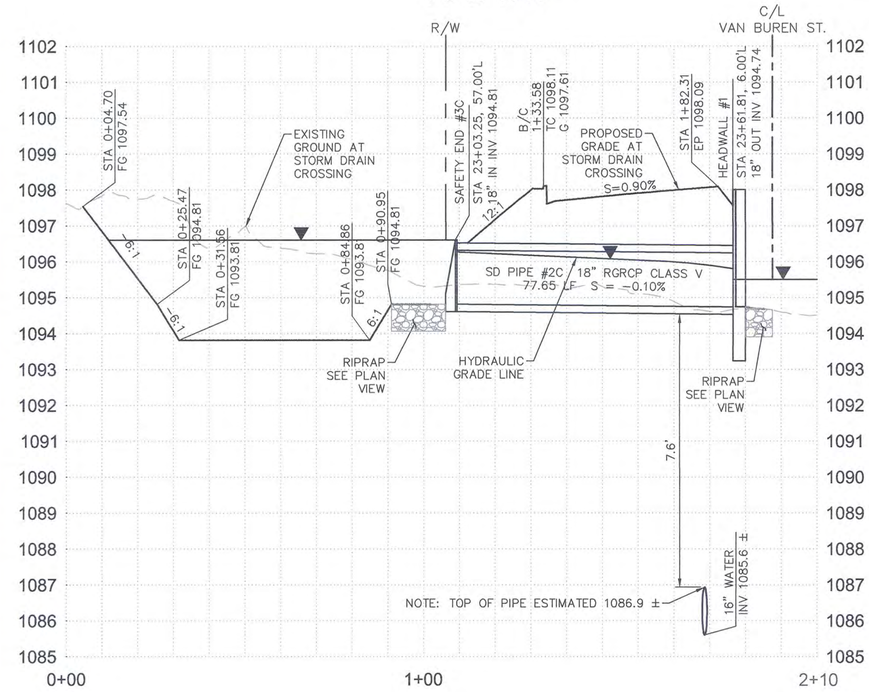
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\46-213035-DR04.dwg



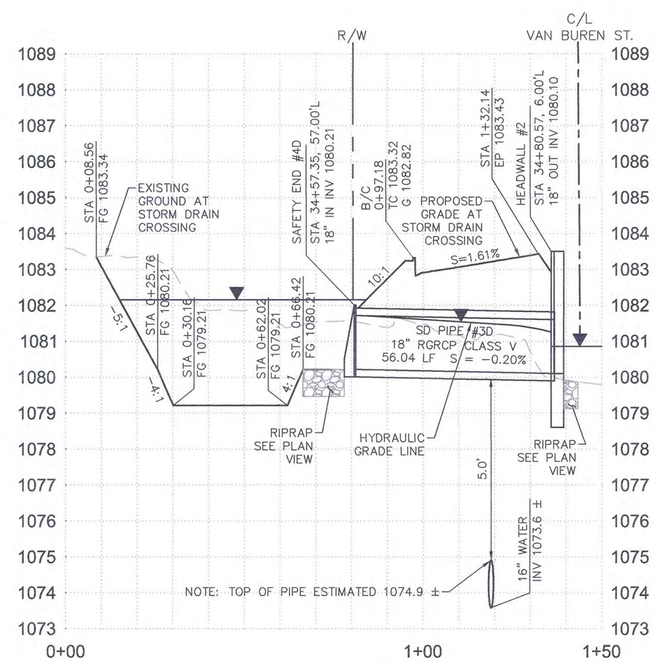
VAN BUREN STREET STORM DRAIN PIPE "H-H"



VAN BUREN STREET STORM DRAIN PIPE "I-I"



STORM DRAIN PIPE SECTION "H-H"



STORM DRAIN PIPE SECTION "I-I"

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811 BLUE STAKE, INC.

Call 811 or click Arizona811.com

DRAINAGE NOTES

NO.	DESCRIPTION	QTY	UNITS
1	SAFETY END SECTION WITH TYPE 3 CONNECTION PER DETAIL ON SHEET DT01	26	EA
4	GRADING FOR DRAINAGE	1	LS
6	HEADWALL PER MAG STD DET 501-3 MODIFIED WITH HANDRAIL PER COB STD DET B-110 AND TRASH RACK PER COB STD DET B-508	2	EA
9	18" CLASS V RGRCP PIPE PER MAG SPEC 601	851	LF
11	DUMPED RIPRAP (D50: 9") PER MAG SPEC SECTION 220 AND 703. THICKNESS 18". WITH GEOSYNTHETIC FABRIC PER MAG SEC 220	137	SY

NOTES:

1. STATION AND OFFSET CALLOUTS TO CULVERT END SECTIONS ARE TO THE CENTER OF THE END OF THE PIPE. LEADERS SHOWN TO EDGE OF END SECTIONS FOR GRAPHICAL CLARITY ONLY.
2. CULVERT PIPE SPACING IS AS FOLLOWS:
   18" RGRCP: 3'-4" O.C.
   30" RGRCP: 4'-7" O.C.
3. IF ANY PORTION OF THE STORM DRAIN PIPE ENCROACHES INTO THE PAVEMENT AGGREGATE BASE COURSE THEN THE TRENCH SHALL BE BACKFILLED USING 1/2 SACK CLSM SLURY TO THE ELEVATION OF THE BOTTOM OF THE PAVEMENT PER MAG SPEC. 601 & 604.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

DRAINAGE PLAN AND PROFILE
VAN BUREN STREET

ENGINEER INFORMATION

RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE
ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL

23232
PETER H.
HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

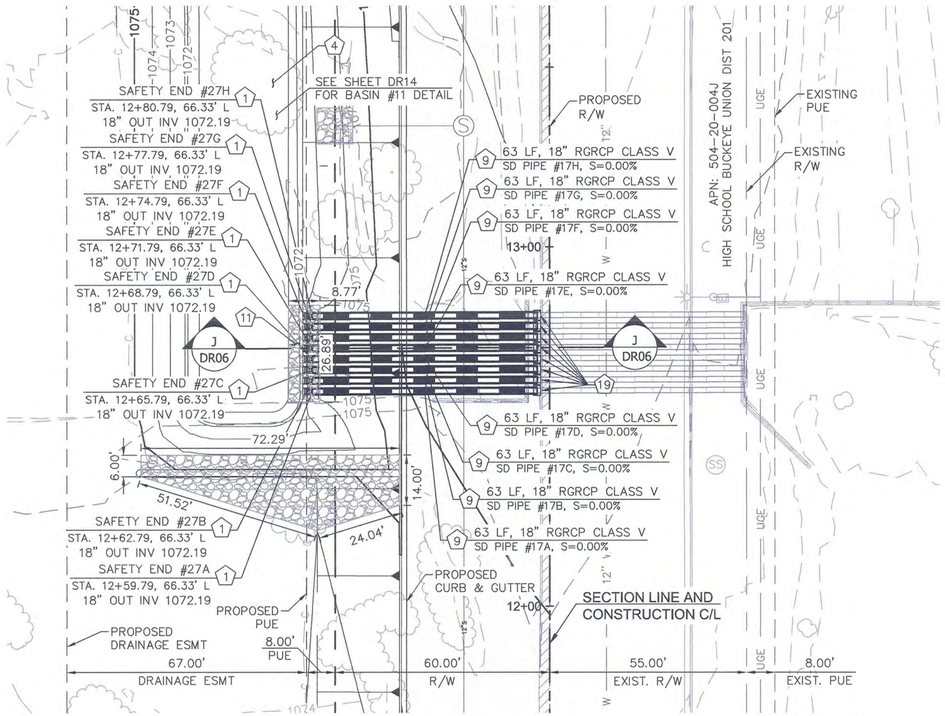
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

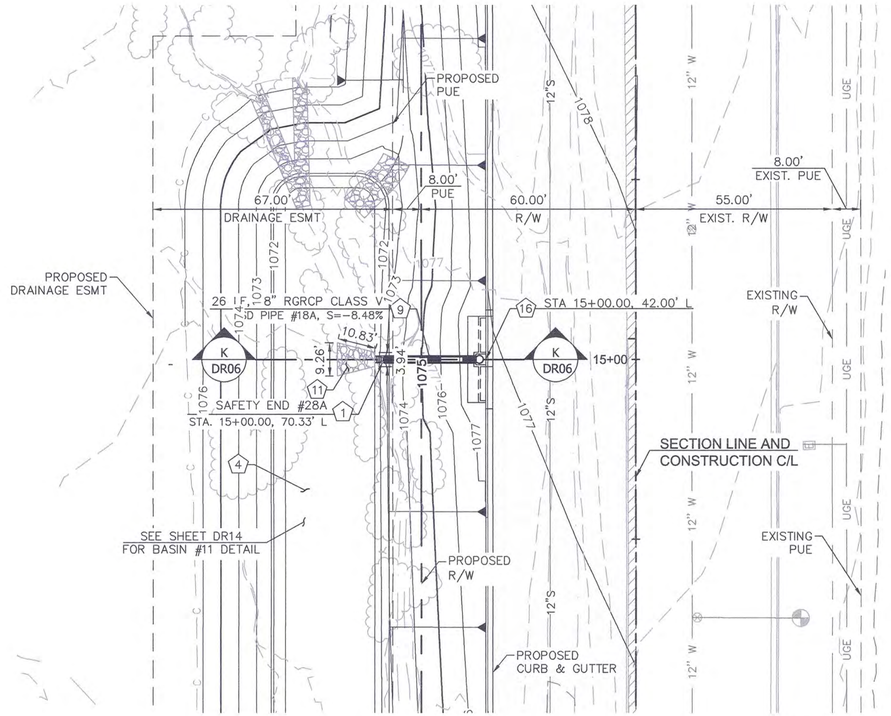
PROJECT NUMBER	SHEET NUMBER	
2014-071	DR05	47 OF 125

PLOT DATE: Dec 14, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\47-213035-DR05.dwg



215TH AVENUE STORM DRAIN PIPE "J-J"

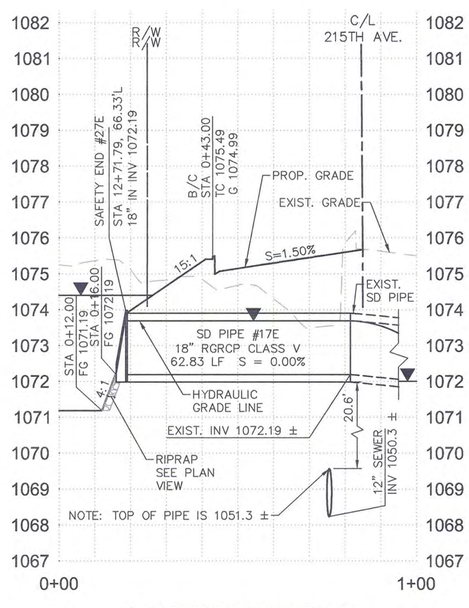


215TH AVENUE CATCH BASIN PIPE "K-K"

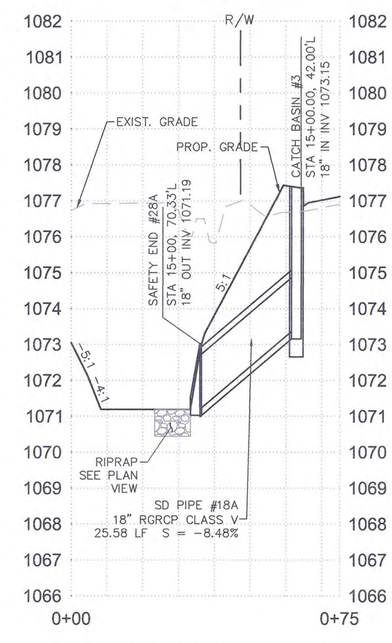
N

0 10 20 40

HORIZONTAL 1" = 20'
VERTICAL 1" = 2'



STORM DRAIN PIPE SECTION "J-J"



STORM DRAIN PIPE SECTION "K-K"

N

0 10 20 40

HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

DRAINAGE NOTES

NO.	DESCRIPTION	QTY	UNITS
1	SAFETY END SECTION WITH TYPE 3 CONNECTION PER DETAIL ON SHEET DT01	9	EA
4	GRADING FOR DRAINAGE	1	LS
9	18" CLASS V RGRCP PIPE PER MAG SPEC 601	530	LF
11	DUMPED RIPRAP (D50: 9") PER MAG SPEC SECTION 220 AND 703. THICKNESS 18". WITH GEOSYNTHETIC FABRIC PER MAG SEC 220	30	SY
16	CURB OPENING CATCH BASIN PER COB STD DET B510-A. 10' WING AND 10' WING	1	EA
19	CONCRETE PIPE COLLAR PER MAG STD DET 505	8	EA

NOTES:

1. STATION AND OFFSET CALLOUTS TO CULVERT END SECTIONS ARE TO THE CENTER OF THE END OF THE PIPE. LEADERS SHOWN TO EDGE OF END SECTIONS FOR GRAPHICAL CLARITY ONLY.
2. CULVERT PIPE SPACING TO MATCH EXISTING. ESTIMATED SPACING IS AS FOLLOWS: 18" RGRCP: 3'-4" O.C.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

DRAINAGE PLAN AND PROFILE
ROOSEVELT STREET

ENGINEER INFORMATION

RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL

23232 PETER H. HEMINGWAY
Registered Professional Engineer (Civil)
Date Signed 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

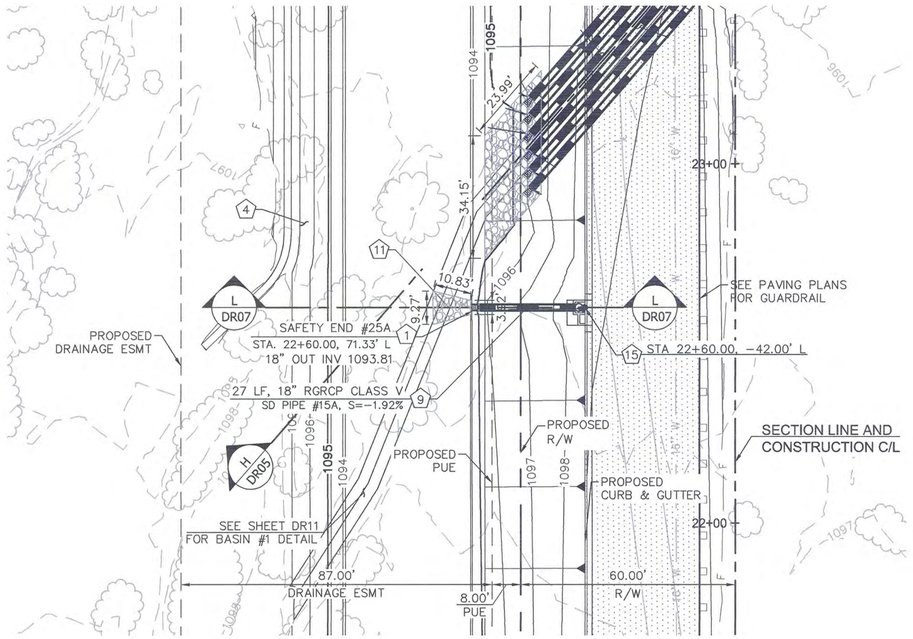
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

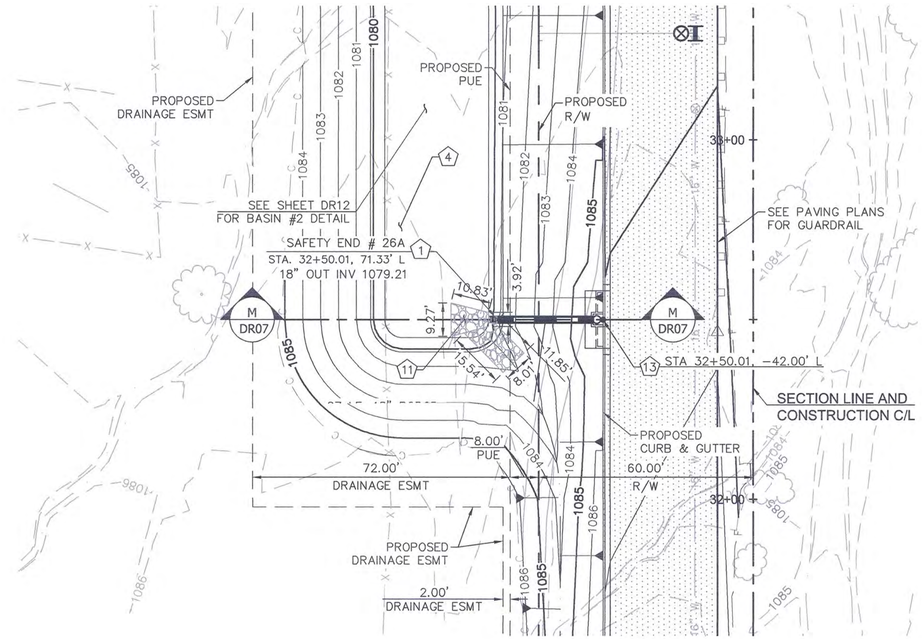
PROJECT NUMBER	SHEET NUMBER
2014-071	DR06

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\48-215035-DR06.dwg

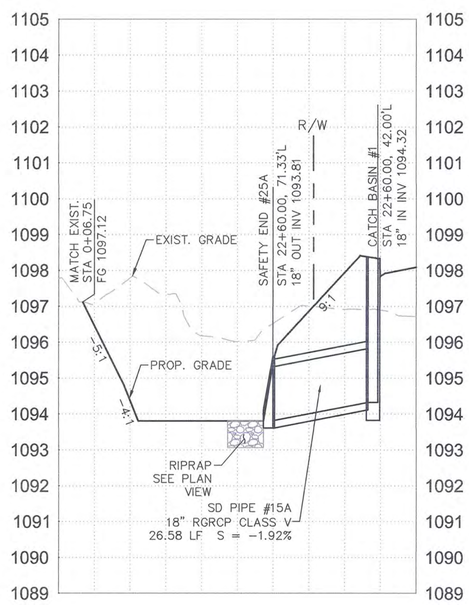


VAN BUREN STREET CATCH BASIN PIPE "L-L"

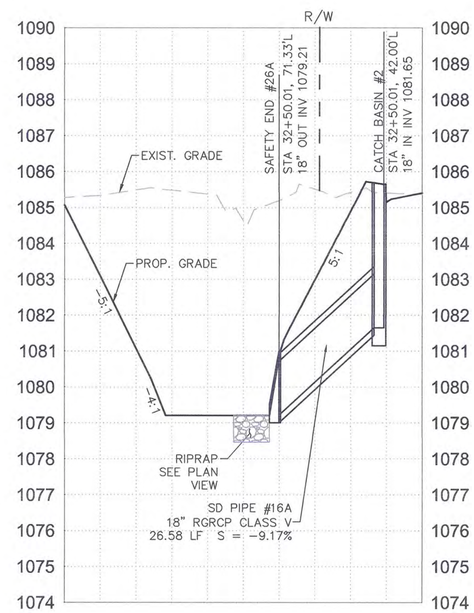


VAN BUREN STREET CATCH BASIN PIPE "M-M"

HORIZONTAL 1" = 20'
VERTICAL 1" = 2'



CATCH BASIN SECTION "L-L"



CATCH BASIN SECTION "M-M"

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

DRAINAGE NOTES

NO.	DESCRIPTION	QTY	UNITS
1	SAFETY END SECTION WITH TYPE 3 CONNECTION PER DETAIL ON SHEET DT01	2	EA
4	GRADING FOR DRAINAGE	1	LS
9	18" CLASS V RGRCP PIPE PER MAG SPEC 601	54	LF
11	DUMPED RIPRAP (D50: 9") PER MAG SPEC SECTION 220 AND 703; THICKNESS 18"; WITH GEOSYNTHETIC FABRIC PER MAG SEC 220	16	SY
13	CURB OPENING CATCH BASIN PER COB STD DET B510-A, 6' WING AND 6' WING	1	EA
15	CURB OPENING CATCH BASIN PER COB STD DET B510-A, 3' WING	1	EA

NOTES:

1. STATION AND OFFSET CALLOUTS TO CULVERT END SECTIONS ARE TO THE CENTER OF THE END OF THE PIPE. LEADERS SHOWN TO EDGE OF END SECTIONS FOR GRAPHICAL CLARITY ONLY.
2. CULVERT PIPE SPACING IS AS FOLLOWS:
   18" RGRCP: 3'-4" O.C.
   30" RGRCP: 4'-7" O.C.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
DRAINAGE PLAN AND PROFILE
211TH AVENUE

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
Registered Professional Engineer (Civil)
Date Signed 12/11/17
ARIZONA, U.S.A.
EXPIRES 03/31/2018

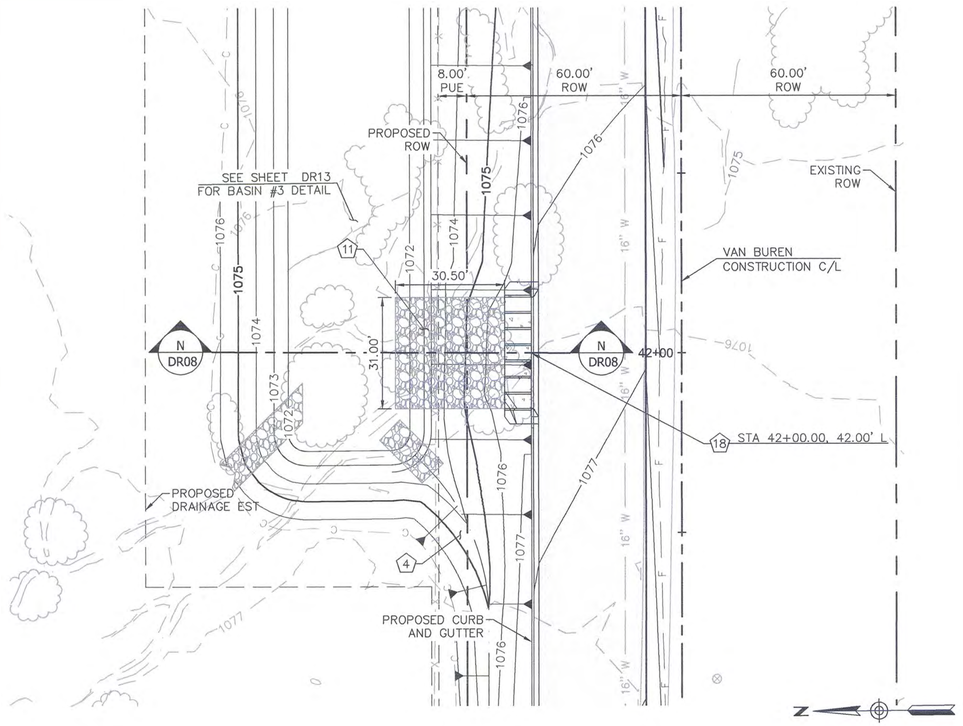
COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER DR07

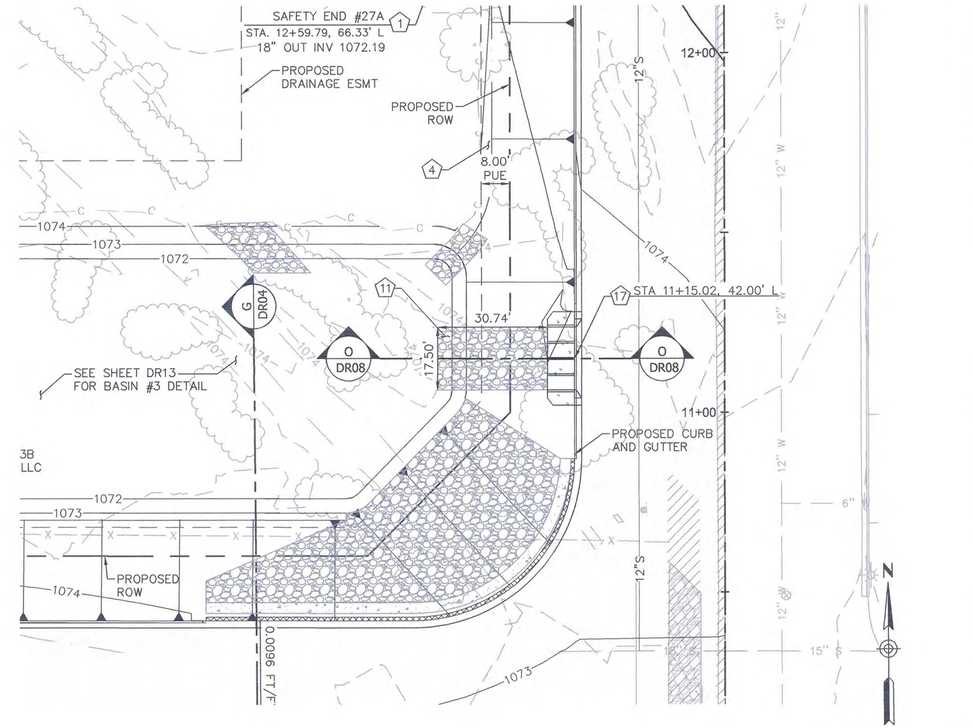
PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\49-213035-DR07.dwg



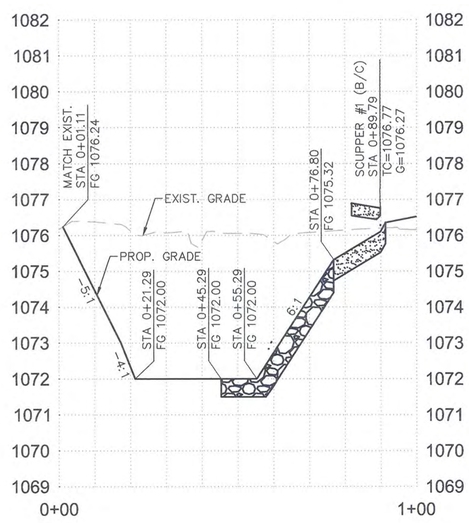
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

VAN BUREN STREET SCUPPER SECTION "N-N"

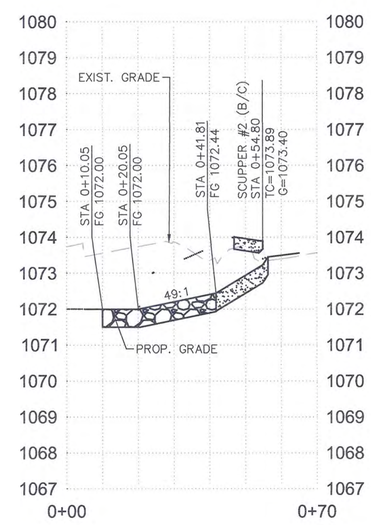


HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

215TH AVENUE SCUPPER SECTION "O-O"



SCUPPER SECTION "N-N"



SCUPPER SECTION "O-O"

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

DRAINAGE NOTES

NO.	DESCRIPTION	QTY	UNITS
4	GRADING FOR DRAINAGE	1	LS
11	DUMPED RIPRAP (D50: 9"), PER MAG SPEC SECTION 220 AND 703. THICKNESS 18", WITH GEOSYNTHETIC FABRIC PER MAG SEC 220	165	SY
17	SCUPPER PER COB STD DET B-505A AND B-505B WITH HANDRAIL PER COB STD DET B-110. 17.5' CURB OPENING LENGTH	1	EA
18	SCUPPER PER COB STD DET B-505A AND B-505B WITH HANDRAIL PER COB STD DET B-110. 31' CURB OPENING LENGTH	1	EA

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
DRAINAGE PLAN AND PROFILE
211TH AVENUE

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
EXPIRES 03/31/2018

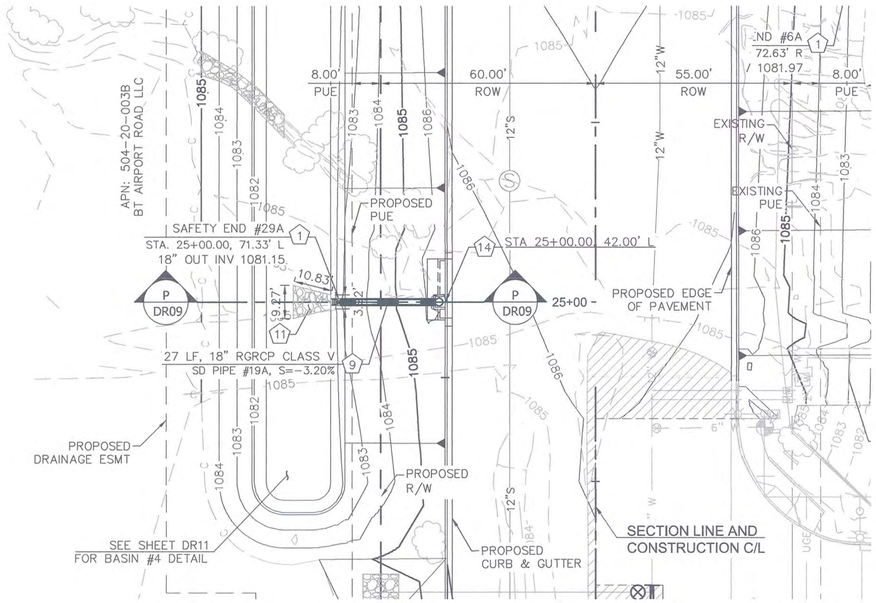
COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

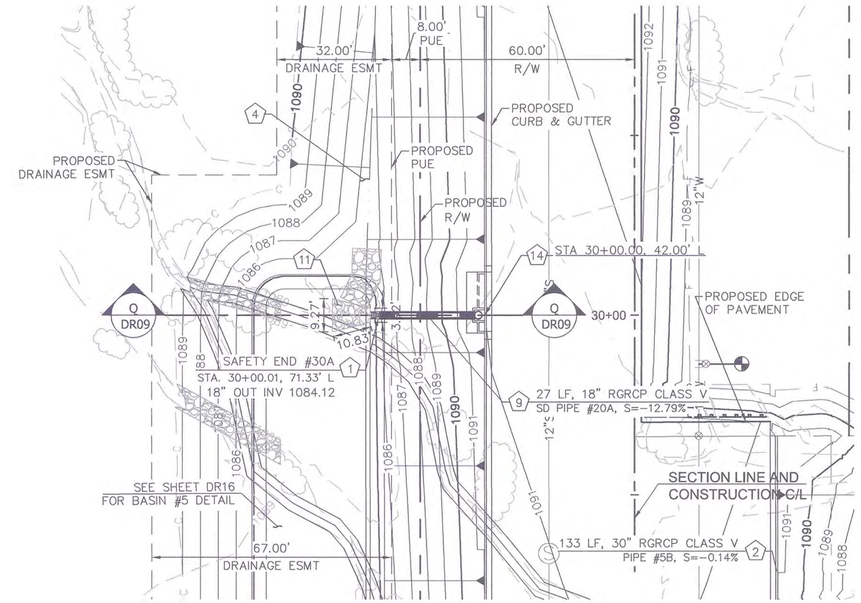
ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER DR08

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\50-213035-DR08.dwg



215TH AVENUE CATCH BASIN SECTION "P-P"

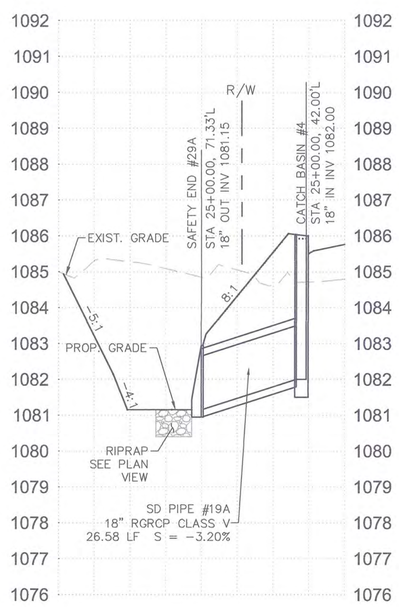


215TH AVENUE CATCH BASIN SECTION "□-□"

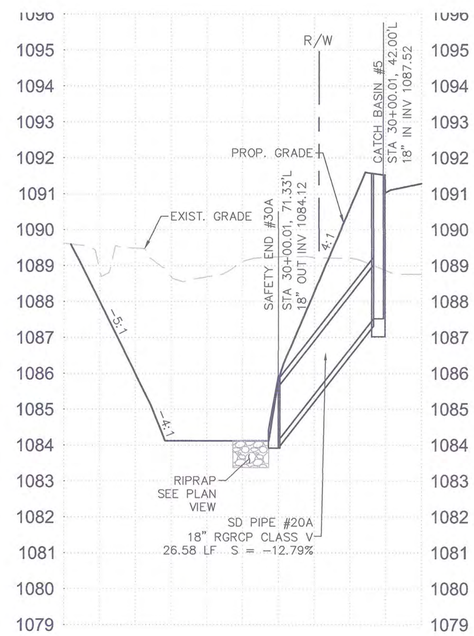
N

0 10 20 40

HORIZONTAL 1" = 20'
VERTICAL 1" = 2'



CATCH BASIN SECTION "P-P"



CATCH BASIN SECTION "□-□"

N

0 10 20 40

HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

DRAINAGE NOTES

NO.	DESCRIPTION	QTY	UNITS
1	SAFETY END SECTION WITH TYPE 3 CONNECTION PER DETAIL ON SHEET DT01	2	EA
4	GRADING FOR DRAINAGE	1	LS
9	18" CLASS V RGRCP PIPE PER MAG SPEC 601	54	LF
11	DUMPED RIPRAP (D50: 9") PER MAG SPEC SECTION 220 AND 703. THICKNESS 18". WITH GEOSYNTHETIC FABRIC PER MAG SEC 220	16	SY
14	CURB OPENING CATCH BASIN PER COB STD DET B510-A. 10' WING AND 3' WING	2	EA

NOTES:

1. STATION AND OFFSET CALLOUTS TO CULVERT END SECTIONS ARE TO THE CENTER OF THE END OF THE PIPE. LEADERS SHOWN TO EDGE OF END SECTIONS FOR GRAPHICAL CLARITY ONLY.
2. CULVERT PIPE SPACING IS AS FOLLOWS:
   18" RGRCP: 3'-4" O.C.
   30" RGRCP: 4'-7" O.C.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

DRAINAGE PLAN AND PROFILE
211TH AVENUE

ENGINEER INFORMATION

RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL

23232 PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
DATE SIGNED 12/11/17
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

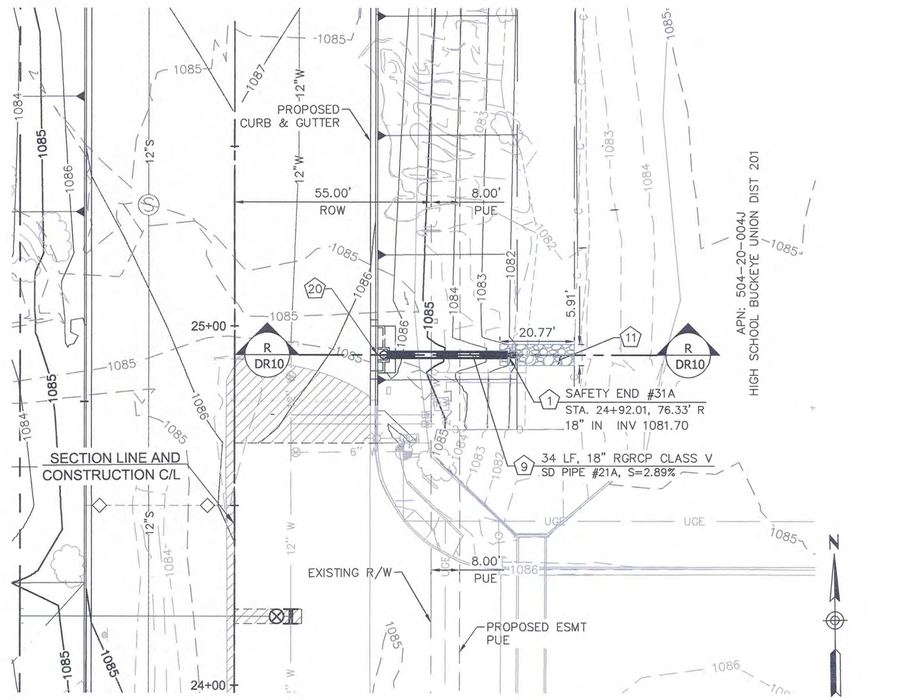
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER
2014-071	DR09 — 51 OF 125

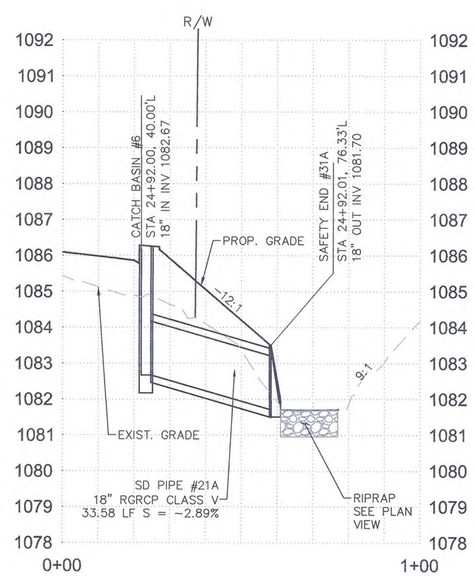
PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\51-213035-DR09.dwg



215TH AVENUE CATCH BASIN SECTION "R-R"

0 10 20 40
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'



CATCH BASIN SECTION "R-R"

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

DRAINAGE NOTES

NO.	DESCRIPTION	QTY	UNITS
1	SAFETY END SECTION WITH TYPE 3 CONNECTION PER DETAIL ON SHEET DT01	1	EA
4	GRADING FOR DRAINAGE	1	LS
9	18" CLASS V RGRCP PIPE PER MAG SPEC 601	34	LF
11	DUMPED RIPRAP (D50: 9"), PER MAG SPEC SECTION 220 AND 703; THICKNESS 18", WITH GEOSYNTHETIC FABRIC PER MAG SEC 220	13	SY
20	CURB OPENING CATCH BASIN PER COB STD DET B510-A. 6; WING AND 3; WING	1	EA

NOTES:

1. STATION AND OFFSET CALLOUTS TO CULVERT END SECTIONS ARE TO THE CENTER OF THE END OF THE PIPE. LEADERS SHOWN TO EDGE OF END SECTIONS FOR GRAPHICAL CLARITY ONLY.
2. CULVERT PIPE SPACING IS AS FOLLOWS:
   18" RGRCP: 3'-4" O.C.
   30" RGRCP: 4'-7" O.C.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
DRAINAGE PLAN AND PROFILE
211TH AVENUE

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
Date Signed 12/11/17
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

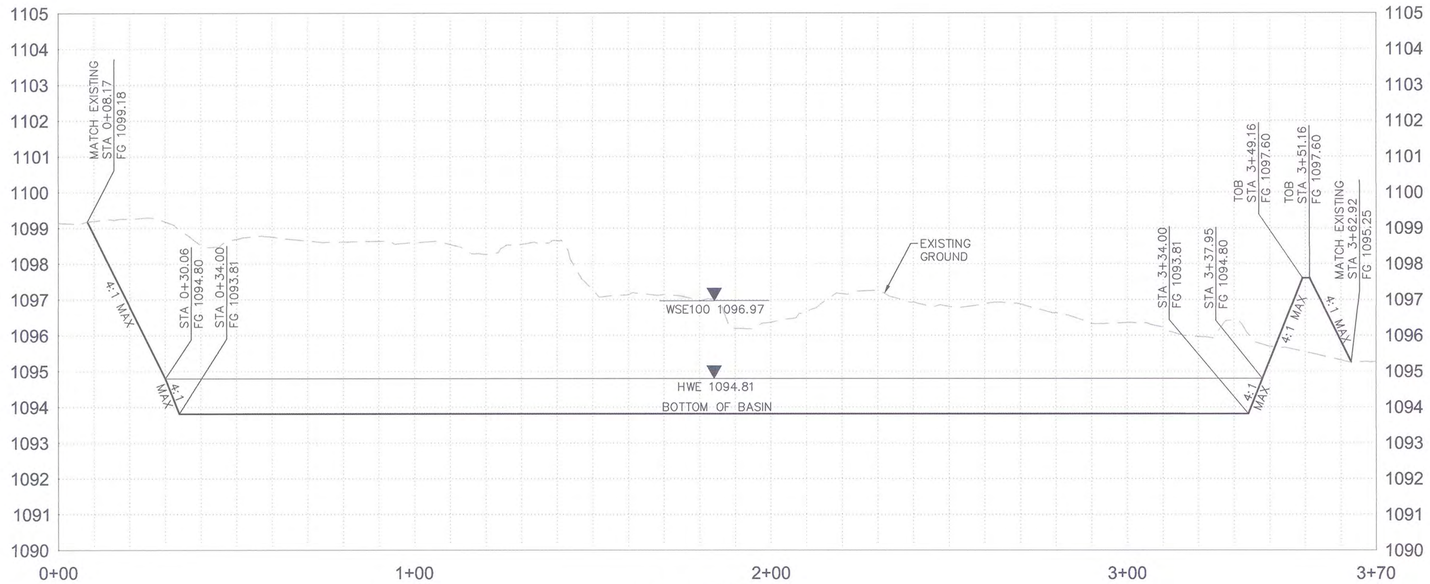
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

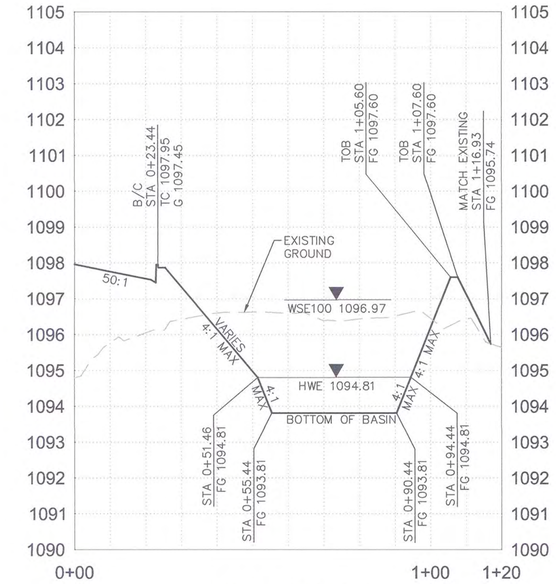
PROJECT NUMBER	SHEET NUMBER	
2014-071	DR10	52 OF 125

PLOT DATE: Dec 14, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\52-215035-DR10.dwg

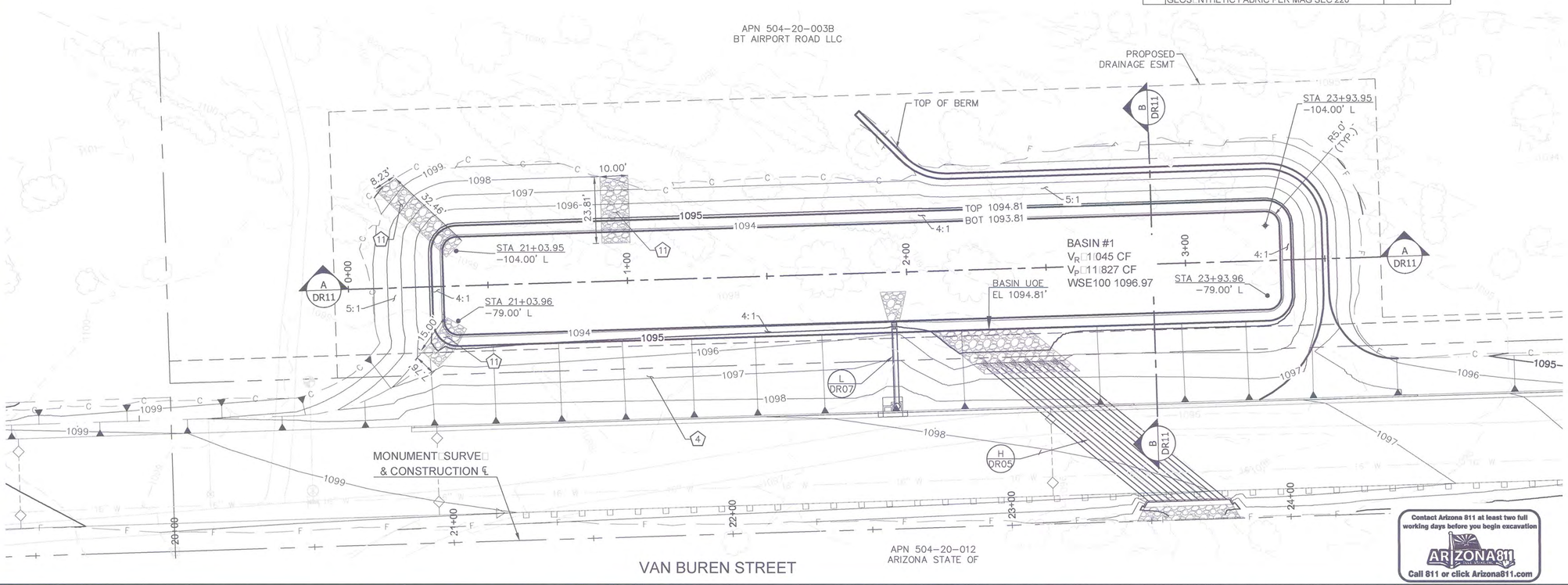


SECTION A-A



SECTION B-B

CONTRUCTION NOTES			
NO.	DESCRIPTION	QTY	UNITS
4	GRADING FOR DRAINAGE	1	LS
11	DUMPED RIPRAP (D50) 9"), PER MAG SPEC SECTION 220 AND 703) THICKNESS 18"), WITH GEOS) NTHETIC FABRIC PER MAG SEC 220	70	S)



N

0 10 20 40

HORIZONTAL 1" = 20'
VERTICAL 1" = 4'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
RETENTION BASIN

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

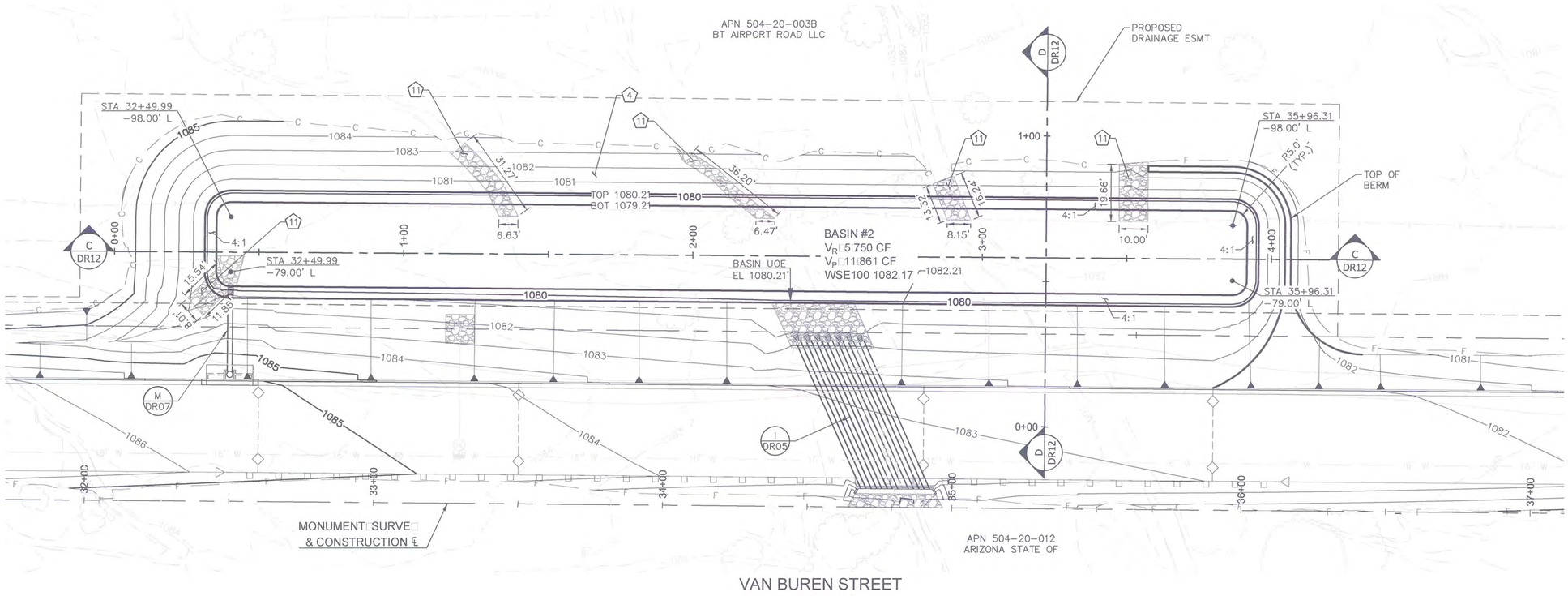
COB PLAN TRACKING # ENG-16-00003

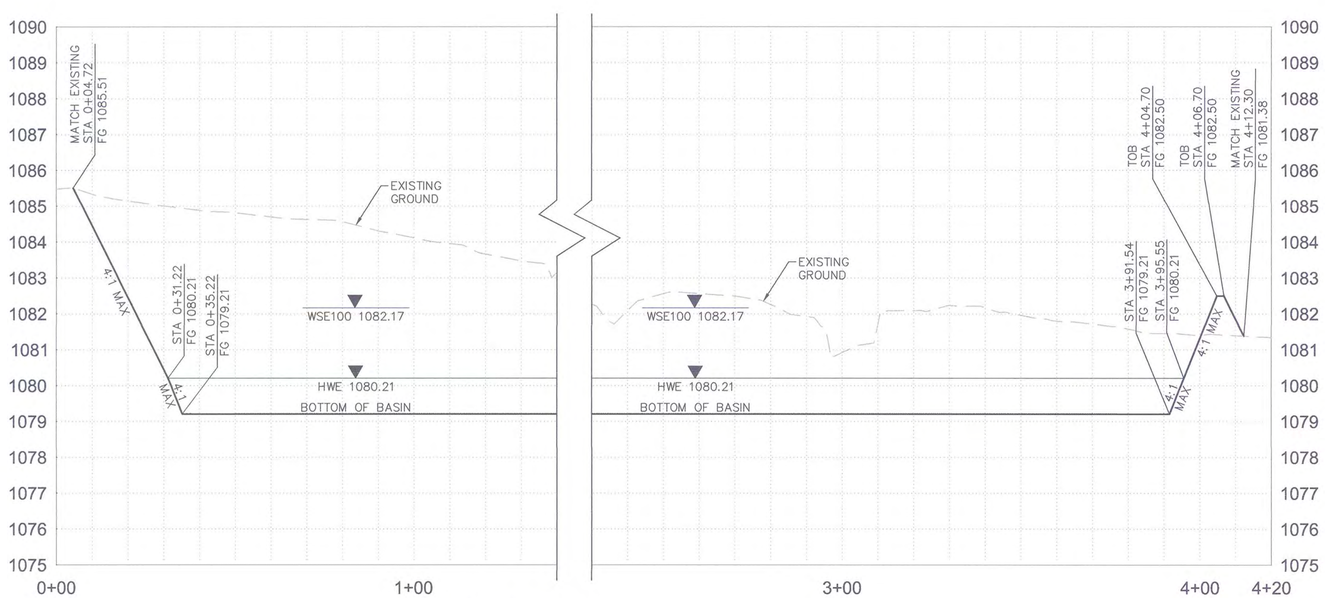
ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER DR11
53 OF 125

COB PERMIT #

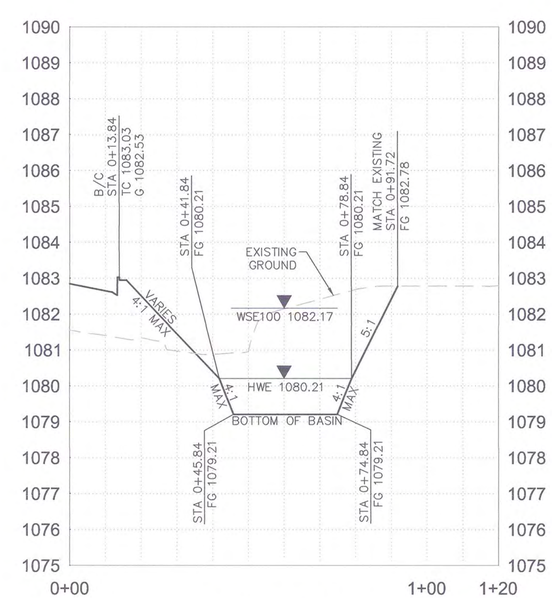
PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\53-213035-DR11.dwg





SECTION C-C



SECTION D-D

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

CONTRUCTION NOTES

NO.	DESCRIPTION	QTY	UNITS
4	GRADING FOR DRAINAGE	1	LS
11	DUMPED RIPRAP (D50: 9"): PER MAG SPEC SECTION 220 AND 703: THICKNESS 18": WITH GEOS: NTHETIC FABRIC PER MAG SEC 220	82	SL

N

0 10 20 40
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
RETENTION BASIN

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

SUBMITTAL: 3RD SUBMITTAL

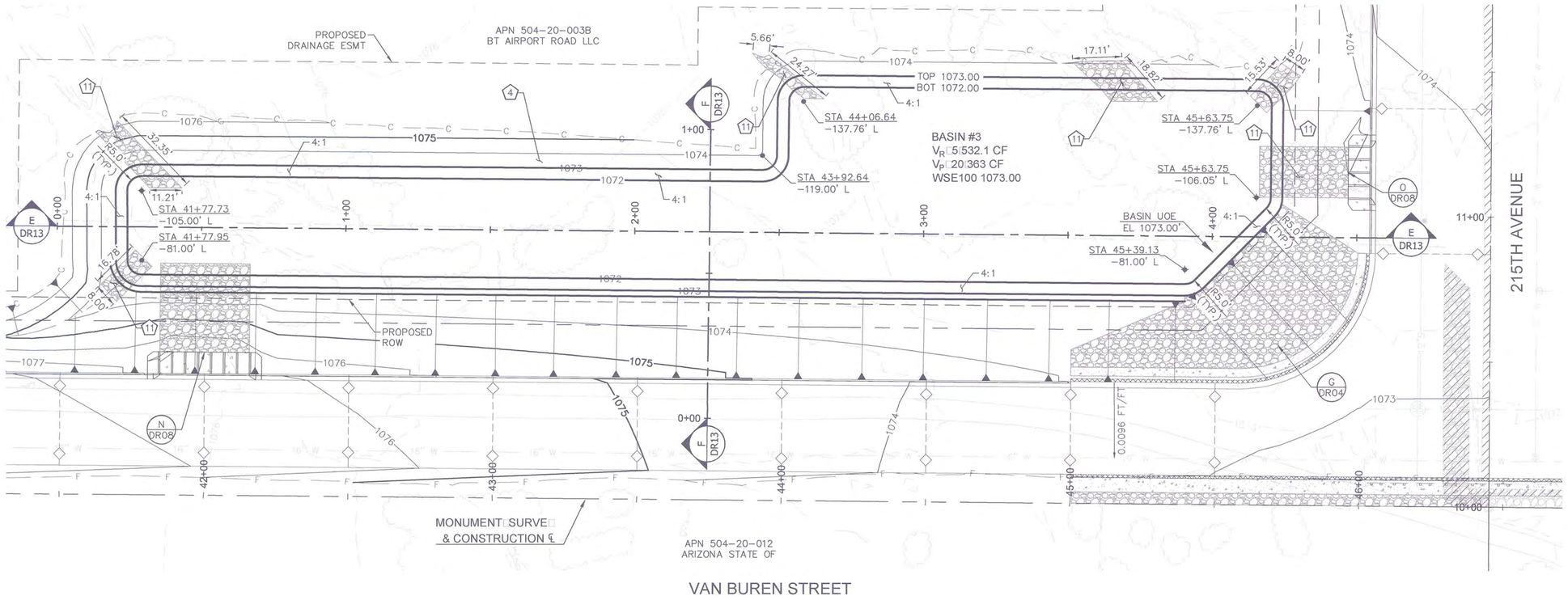
COB PLAN TRACKING # ENG-16-00003

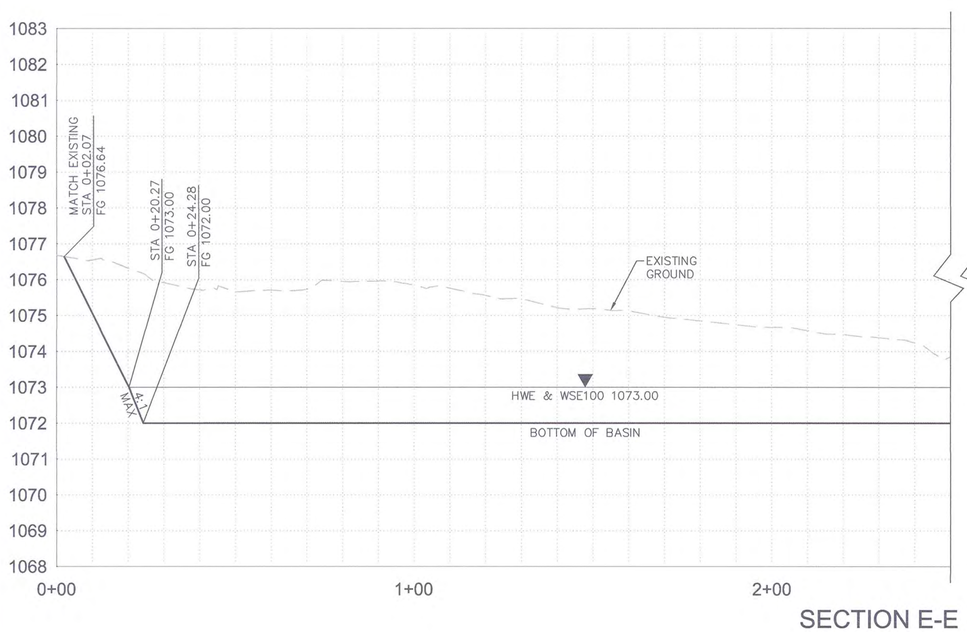
COB PERMIT #

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER DR12
54 OF 125

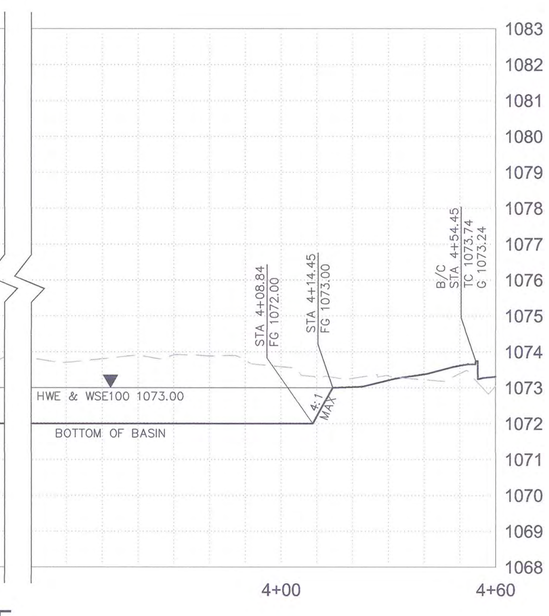
PLOT DATE: Dec 13, 2017

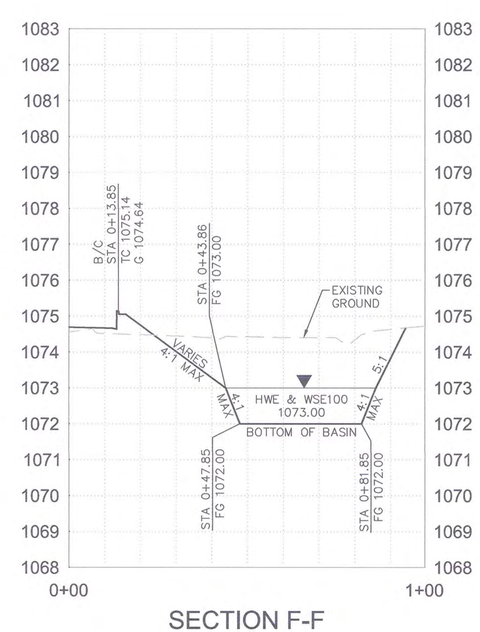
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\54-213035-DR12.dwg





SECTION E-E





SECTION F-F

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

CONTRUCTION NOTES

NO.	DESCRIPTION	QTY	UNITS
4	GRADING FOR DRAINAGE	1	LS
11	DUMPED RIPRAP (D50) 9"; PER MAG SPEC SECTION 220 AND 703; THICKNESS 18"; WITH GEOSYNTHETIC FABRIC PER MAG SEC 220	93	SY

N

0 5 10 20

HORIZONTAL 1" = 10'
VERTICAL 1" = 2'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
RETENTION BASIN

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
ARIZONA, U.S.A.
Date Signed 12/11/2017
EXPIRES 03/31/2018

SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

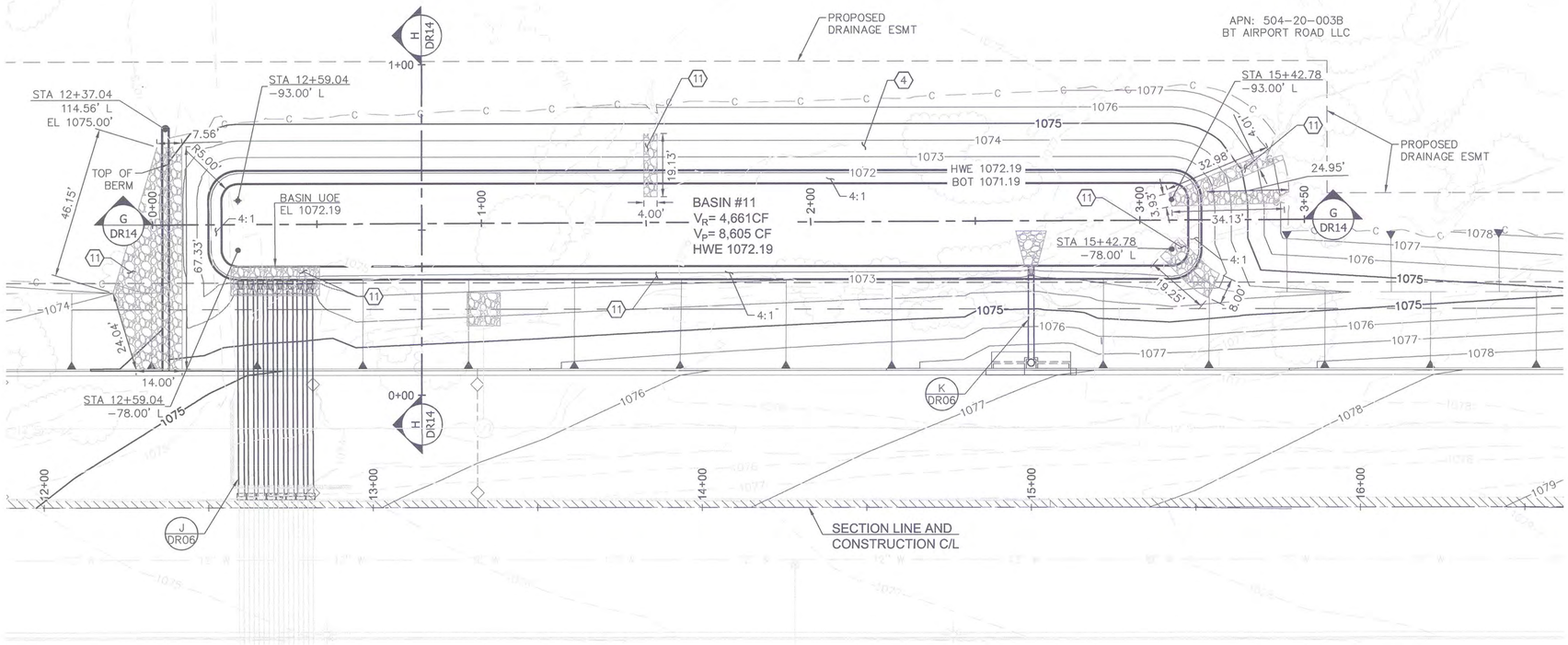
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER	SHEET NUMBER
2014-071	DR13

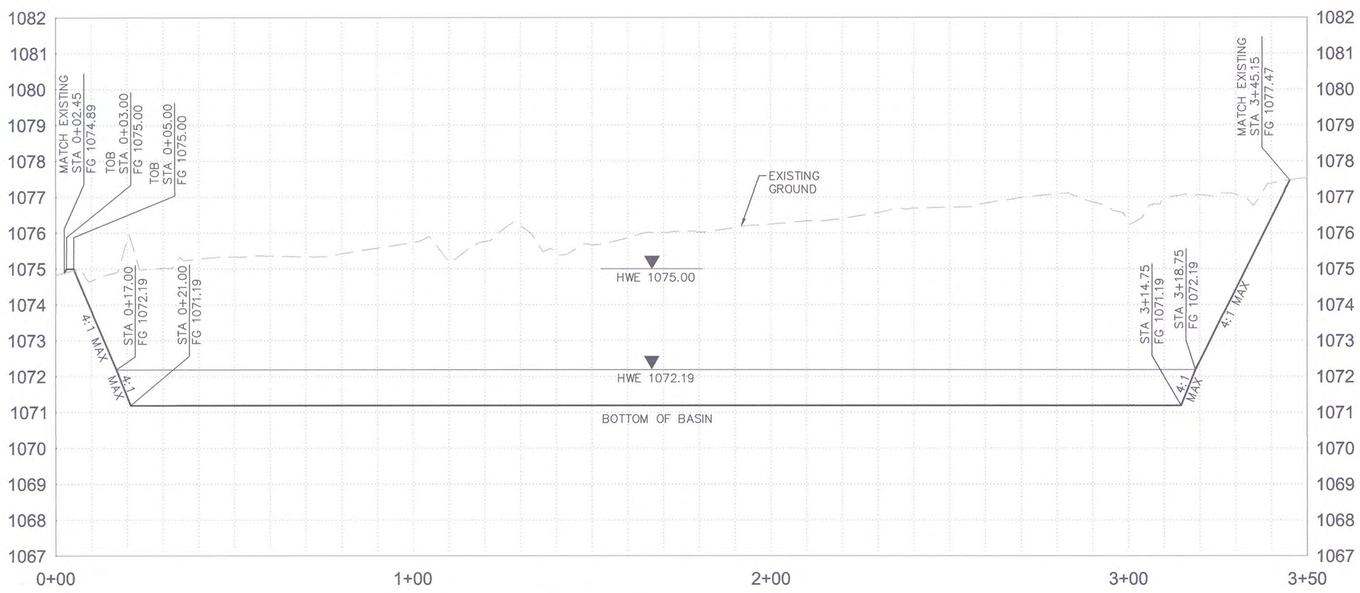
55 OF 125

PLOT DATE: Dec 13, 2017

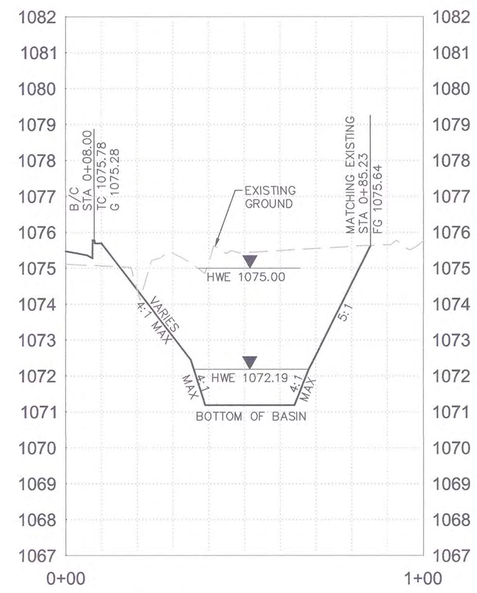
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\55-213035-DR13.dwg



215TH AVENUE



SECTION G-G



SECTION H-H

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

CONTRUCTION NOTES

NO.	DESCRIPTION	QTY	UNITS
4	GRADING FOR DRAINAGE	1	LS
11	DUMPED RIPRAP (D50: 9"), PER MAG SPEC SECTION 220 AND 703, THICKNESS 18"), WITH GEOS, NTHETIC FABRIC PER MAG SEC 220	175	SY

0 10 20 40
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
RETENTION BASIN

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

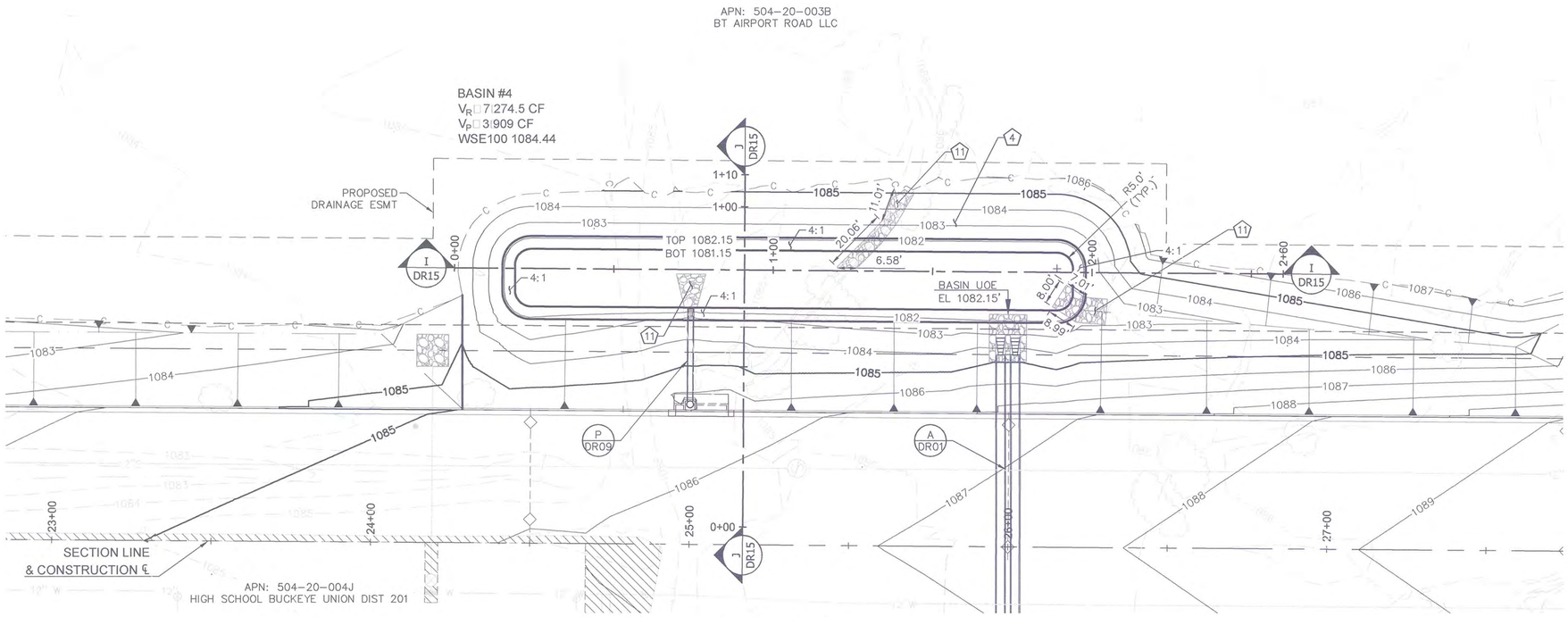
DESIGN SEAL
23232 PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
ARIZONA, U.S.A.
Date Signed 12/1/17
EXPIRES 03/31/2018

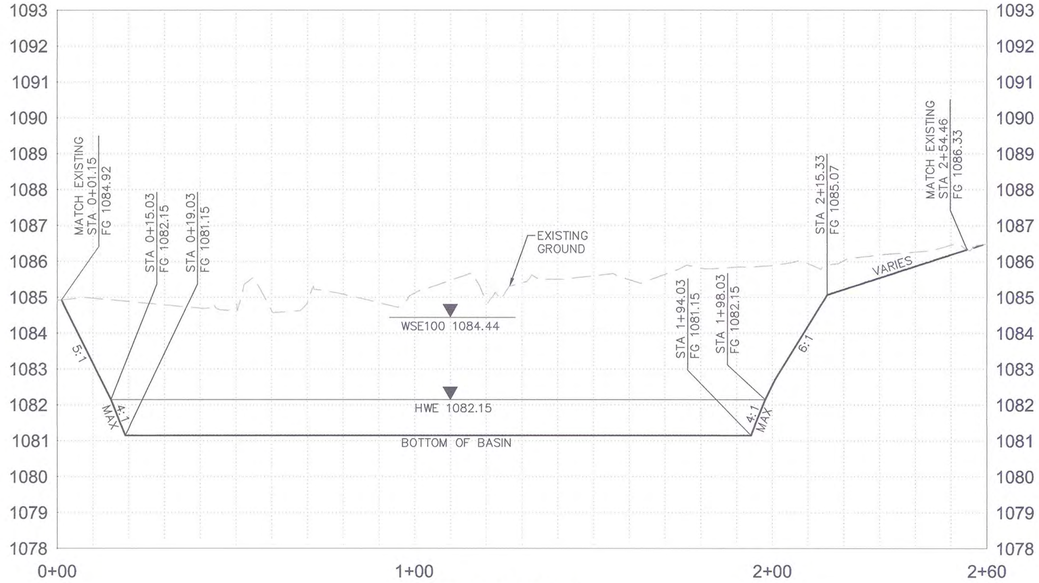
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER 2014-071	SHEET NUMBER DR14 — 56 OF 125

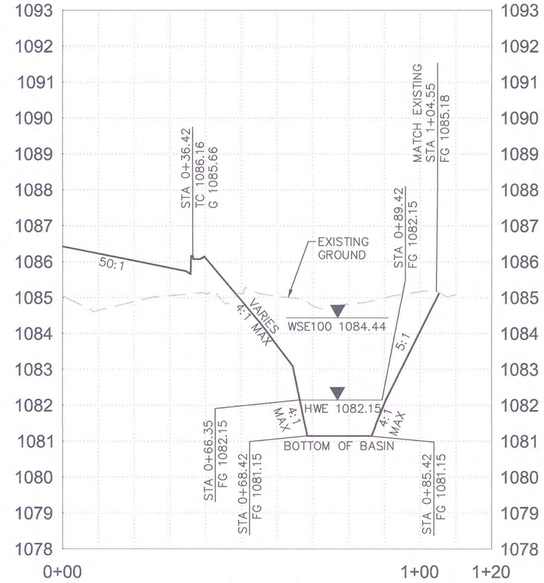
PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\56-213035-DR14.dwg





SECTION I-I



SECTION J-J

CONTRUCTION NOTES

NO.	DESCRIPTION	QTY	UNITS
4	GRADING FOR DRAINAGE	1	LS
11	DUMPED RIPRAP (D50: 9"), PER MAG SPEC SECTION 220 AND 703, THICKNESS 18", WITH GEOSYNTHETIC FABRIC PER MAG SEC 220	30	SY

0 10 20 40
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
RETENTION BASIN

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
ARIZONA, U.S.A.
Date Signed 12/1/17
EXPIRES 03/31/2018

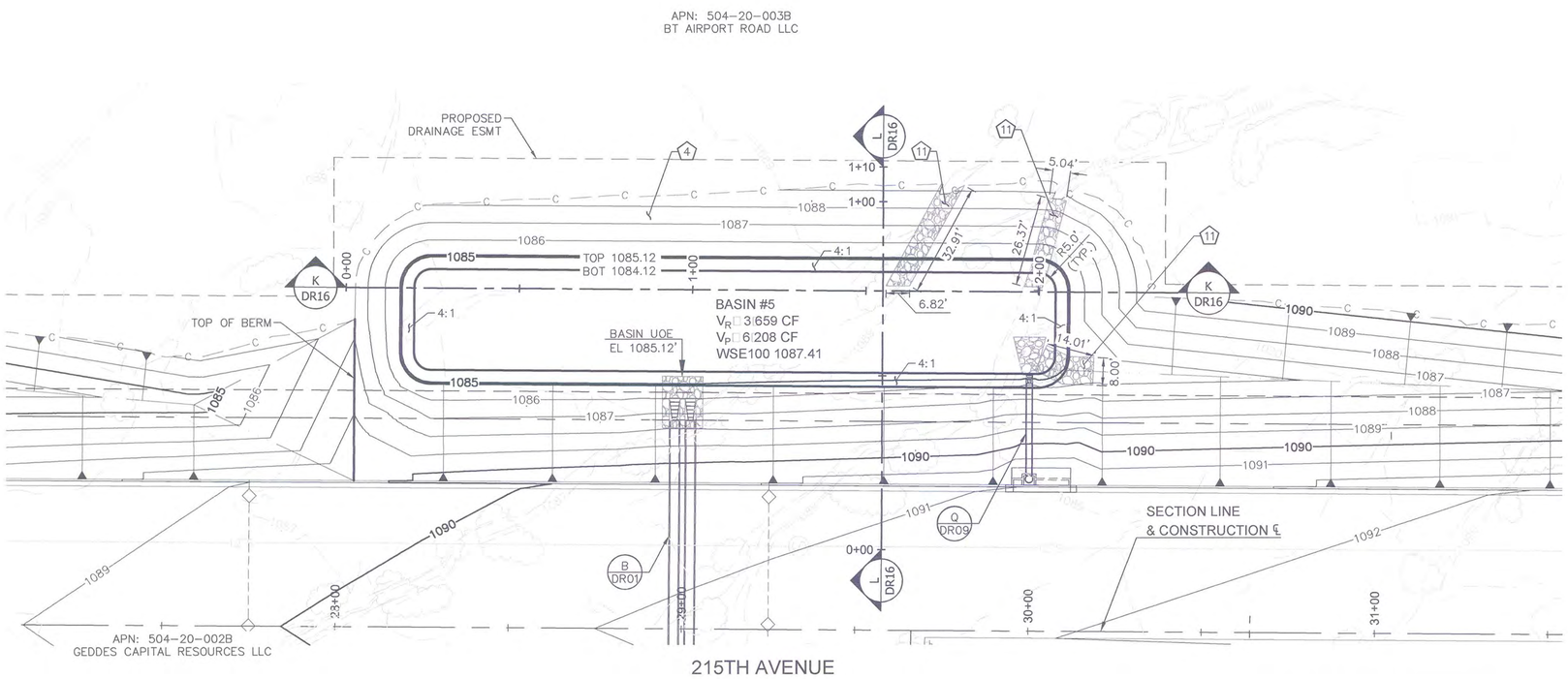
ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER DR15
57 OF 125

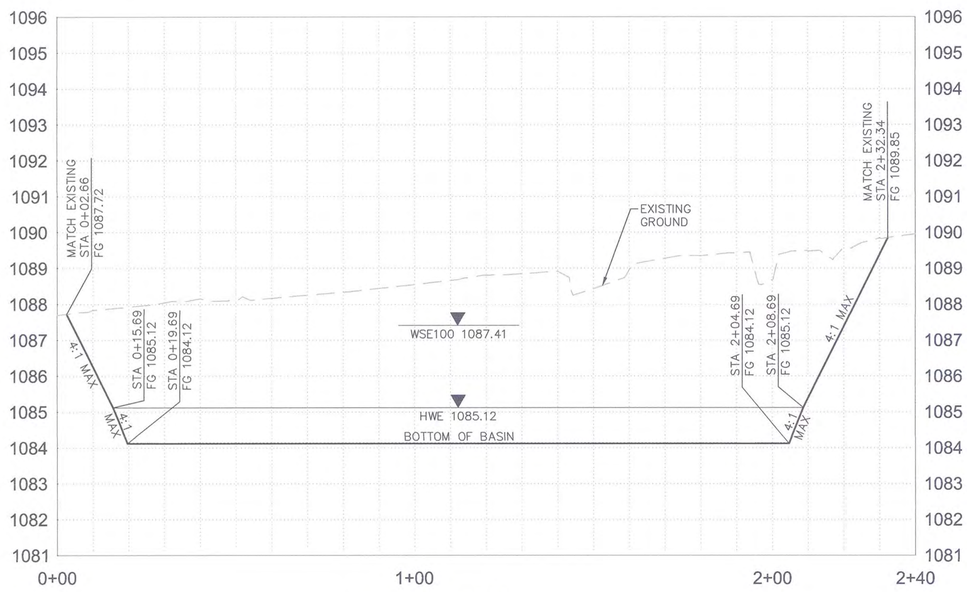
SUBMITTAL: 3RD SUBMITTAL
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

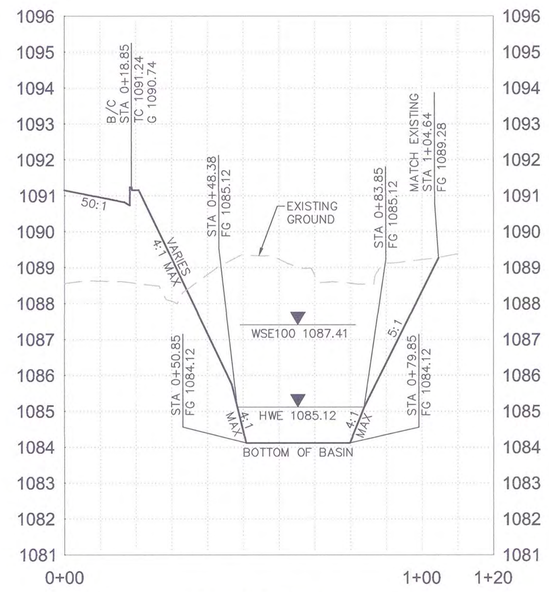
PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\57-213035-DR15.dwg





SECTION K-K



SECTION L-L

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

CONSTRUCTION NOTES

NO.	DESCRIPTION	QTY	UNITS
4	GRADING FOR DRAINAGE	1	LS
11	DUMPED RIPRAP (D50) 9" PER MAG SPEC SECTION 220 AND 703 THICKNESS 18" WITH GEOSYNTHETIC FABRIC PER MAG SEC 220	50	SL

N

0 10 20 40
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
RETENTION BASIN

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

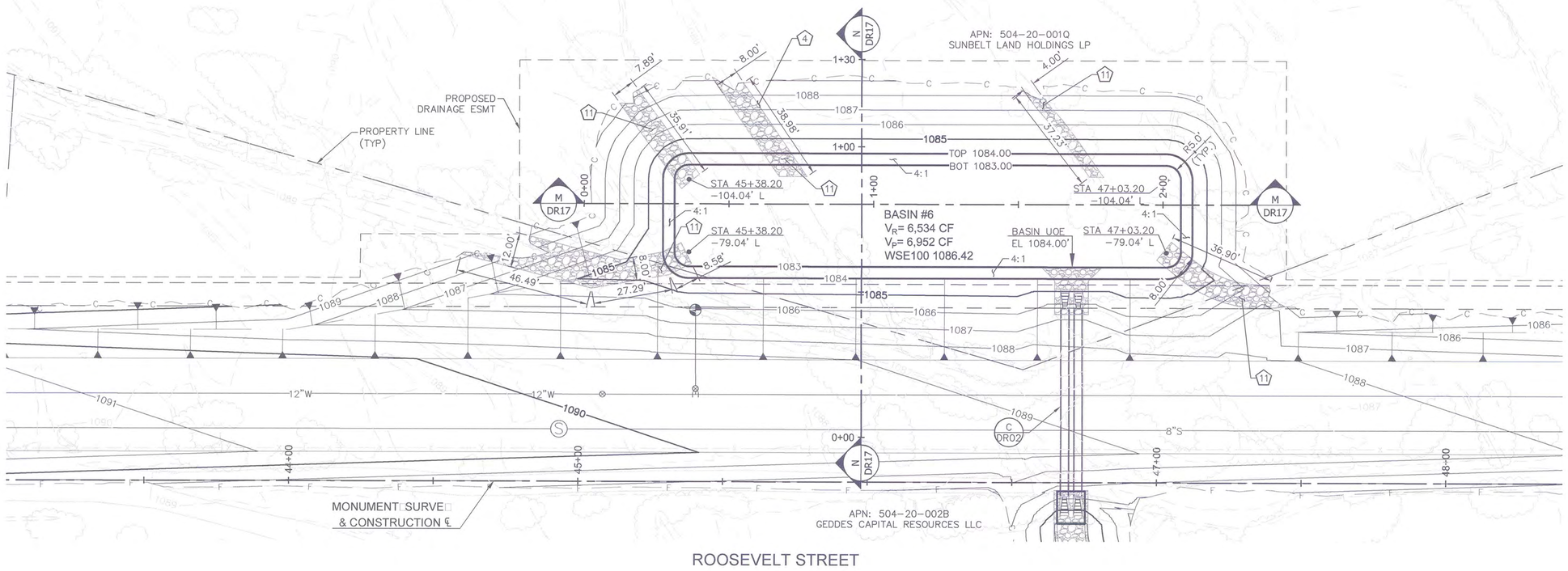
AS-BUILT SEAL

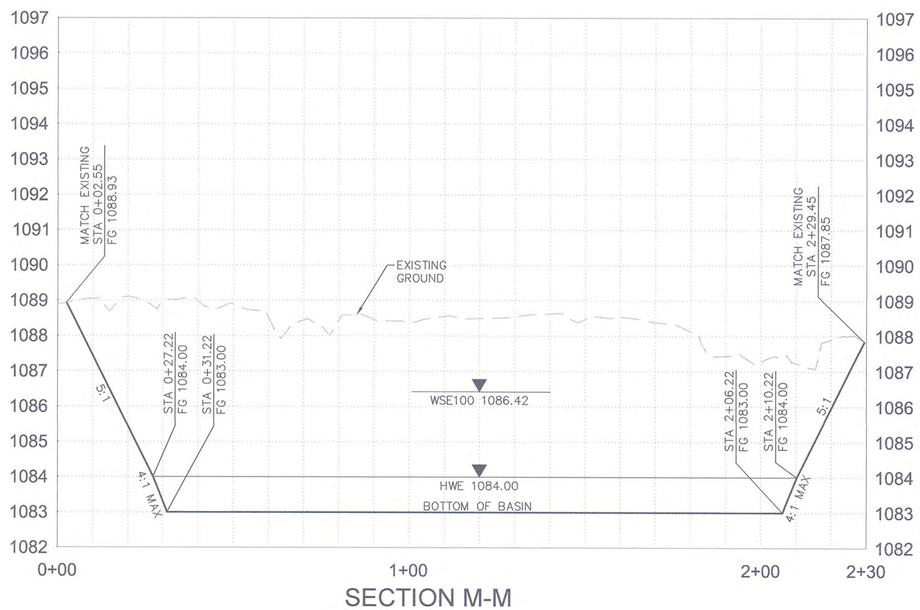
DESIGN SEAL
23232 PETER H. HEMINGWAY
EXPIRES 03/31/2018

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER DR16
58 OF 125

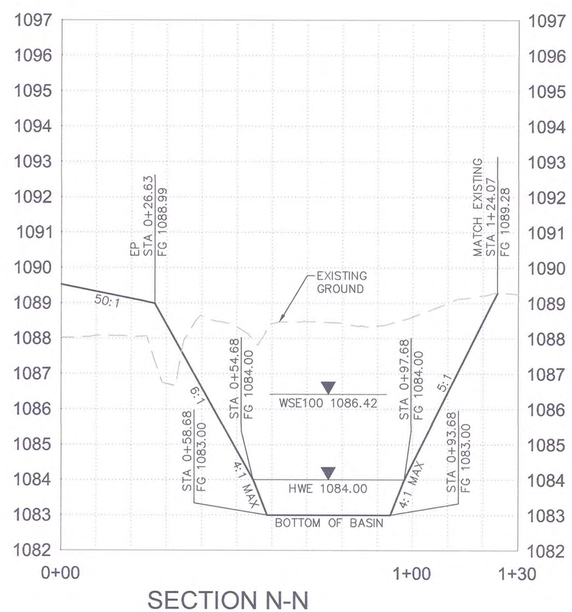
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

PLOT DATE: Dec 13, 2017
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\58-213035-DR16.dwg





SECTION M-M



SECTION N-N

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

CONTRUCTION NOTES

NO.	DESCRIPTION	QTY	UNITS
4	GRADING FOR DRAINAGE	1	LS
11	DUMPED RIPRAP (D50) 9" PER MAG SPEC SECTION 220 AND 703) THICKNESS 18" WITH GEOS) NTHETIC FABRIC PER MAG SEC 220	200	S)

N

0 10 20 40

HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
RETENTION BASIN

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

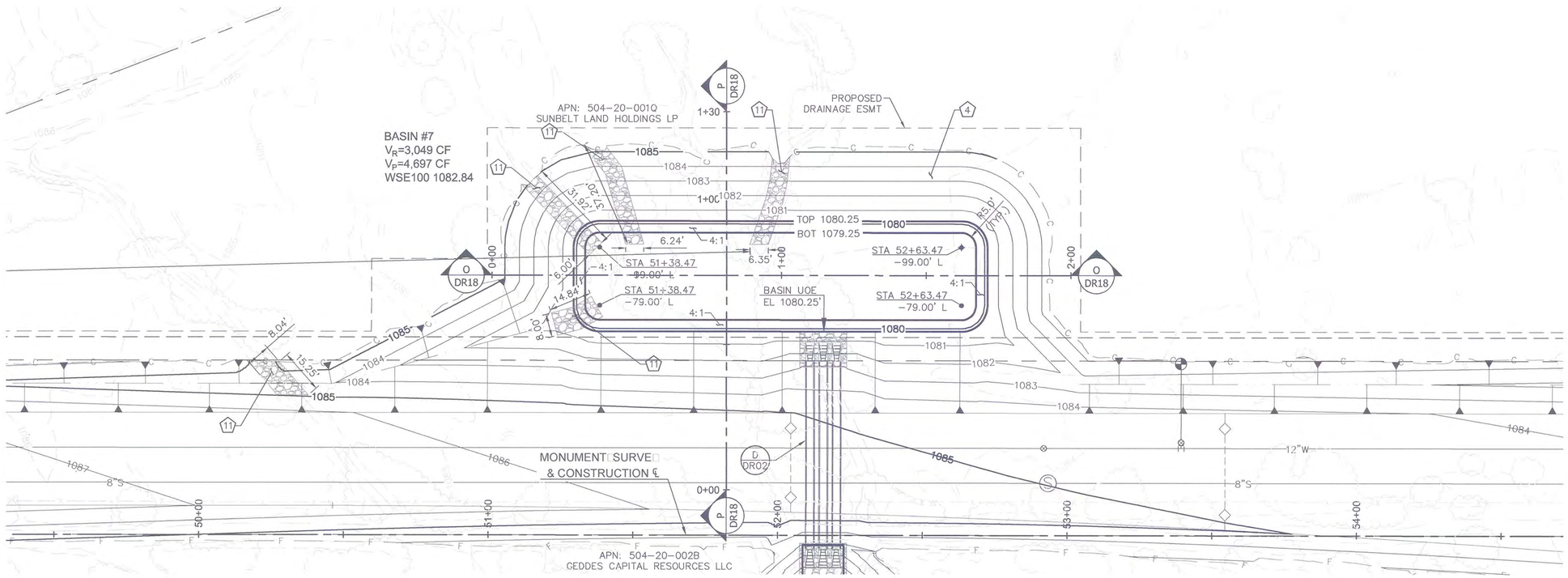
AS-BUILT SEAL

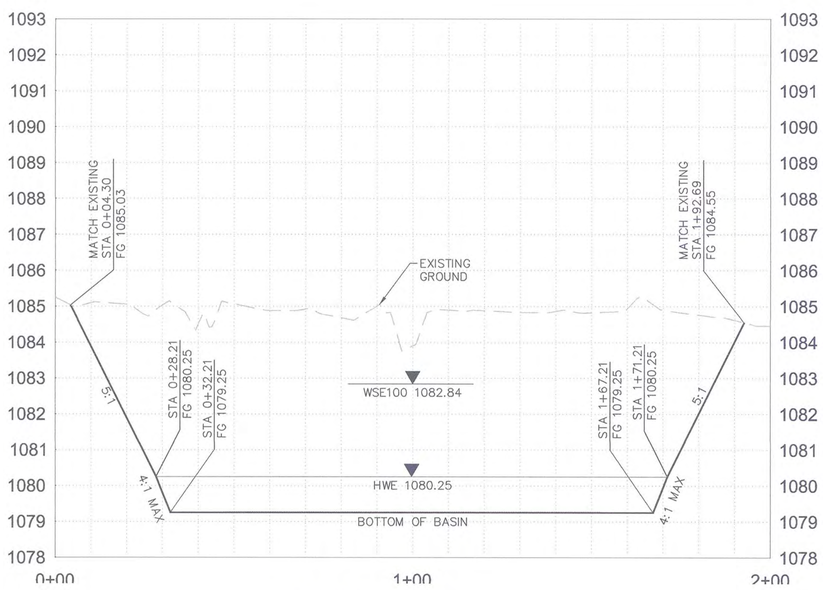
DESIGN SEAL
23232 PETER H. HEMINGWAY ARIZONA, U.S.A.
EXPIRES 03/31/2018

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER DR17
59 OF 125
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

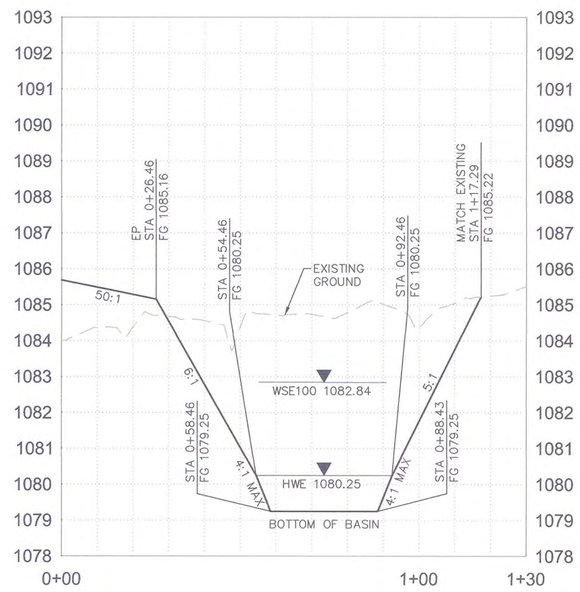
PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\59-213035-DR17.dwg





SECTION O-O



SECTION P-P

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

CONTRUCTION NOTES

NO.	DESCRIPTION	QTY	UNITS
4	GRADING FOR DRAINAGE	1	LS
11	DUMPED RIPRAP (D50) 9"; PER MAG SPEC SECTION 220 AND 703; THICKNESS 18"; WITH GEOS; NTHETIC FABRIC PER MAG SEC 220	93	SY

N

0 10 20 40
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
RETENTION BASIN

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE 12-27-2016

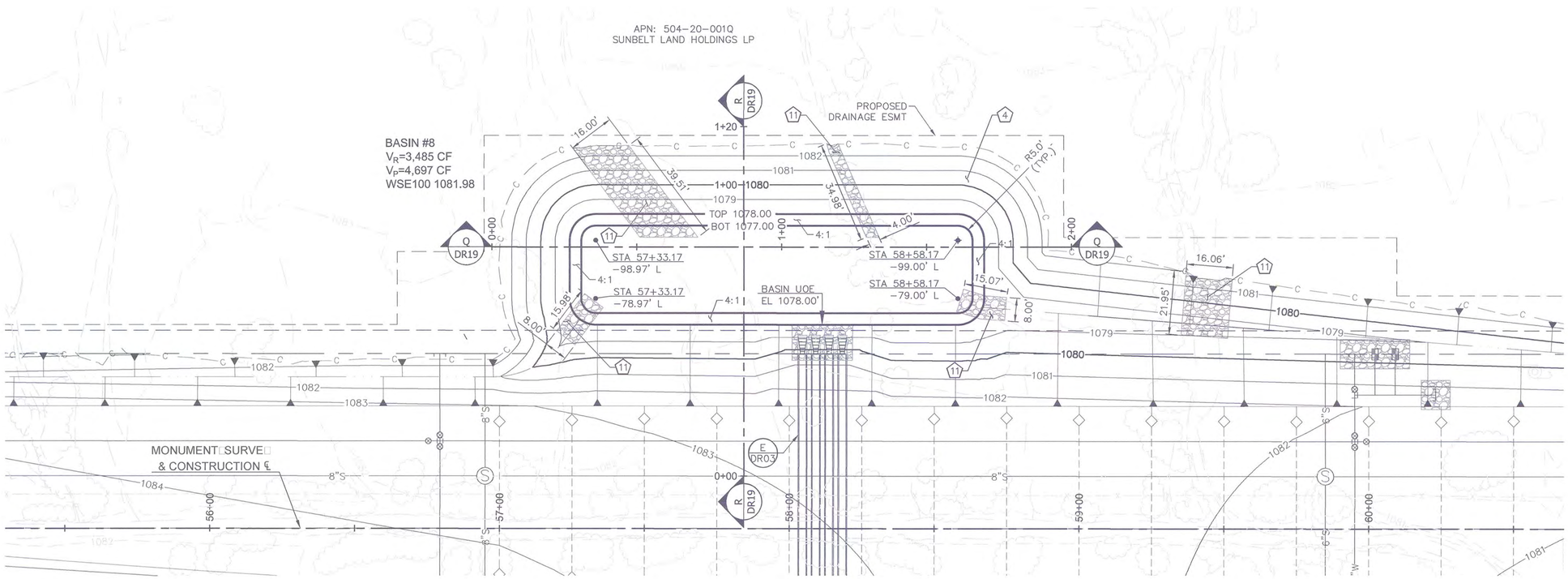
LATEST REVISION DATE 12-11-17

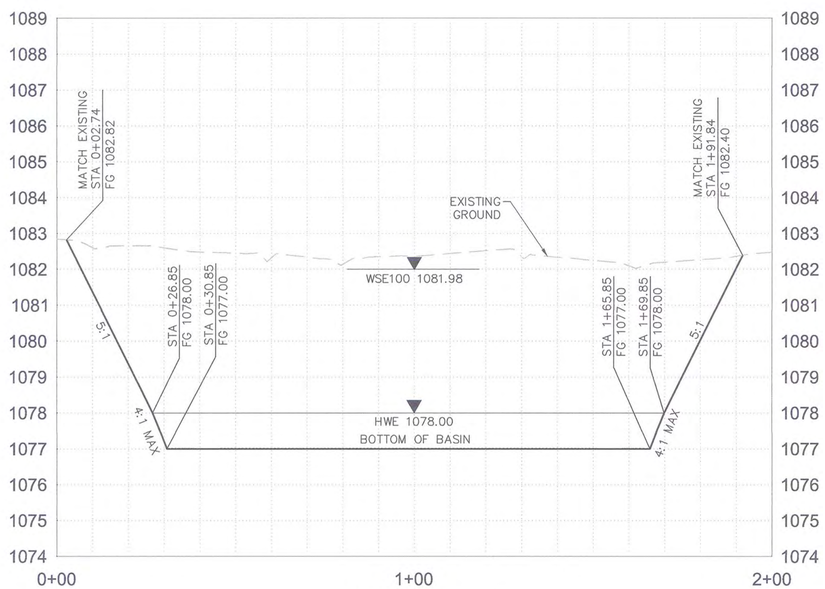
PROJECT NUMBER 2014-071

SHEET NUMBER DR18 60 OF 125

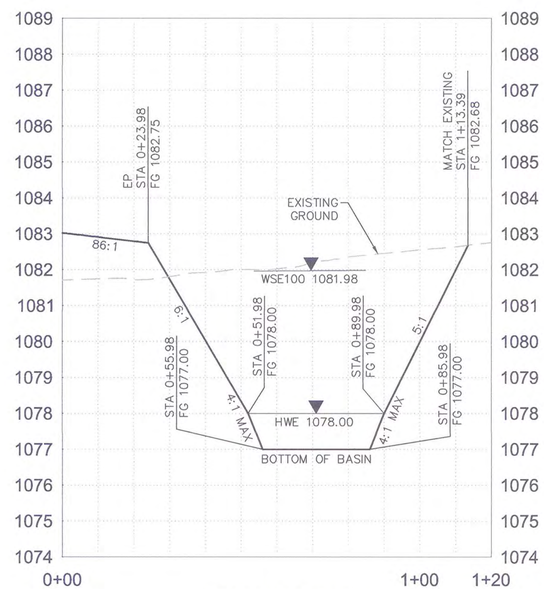
PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\60-213035-DR18.dwg





SECTION □-□



SECTION R-R

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

CONTRUCTION NOTES

NO.	DESCRIPTION	QTY	UNITS
4	GRADING FOR DRAINAGE	1	LS
11	DUMPED RIPRAP (D50) 9"), PER MAG SPEC SECTION 220 AND 703) THICKNESS 18"), WITH GEOS) NTHETIC FABRIC PER MAG SEC 220	149	S)

N

0 10 20 40
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
RETENTION BASIN

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

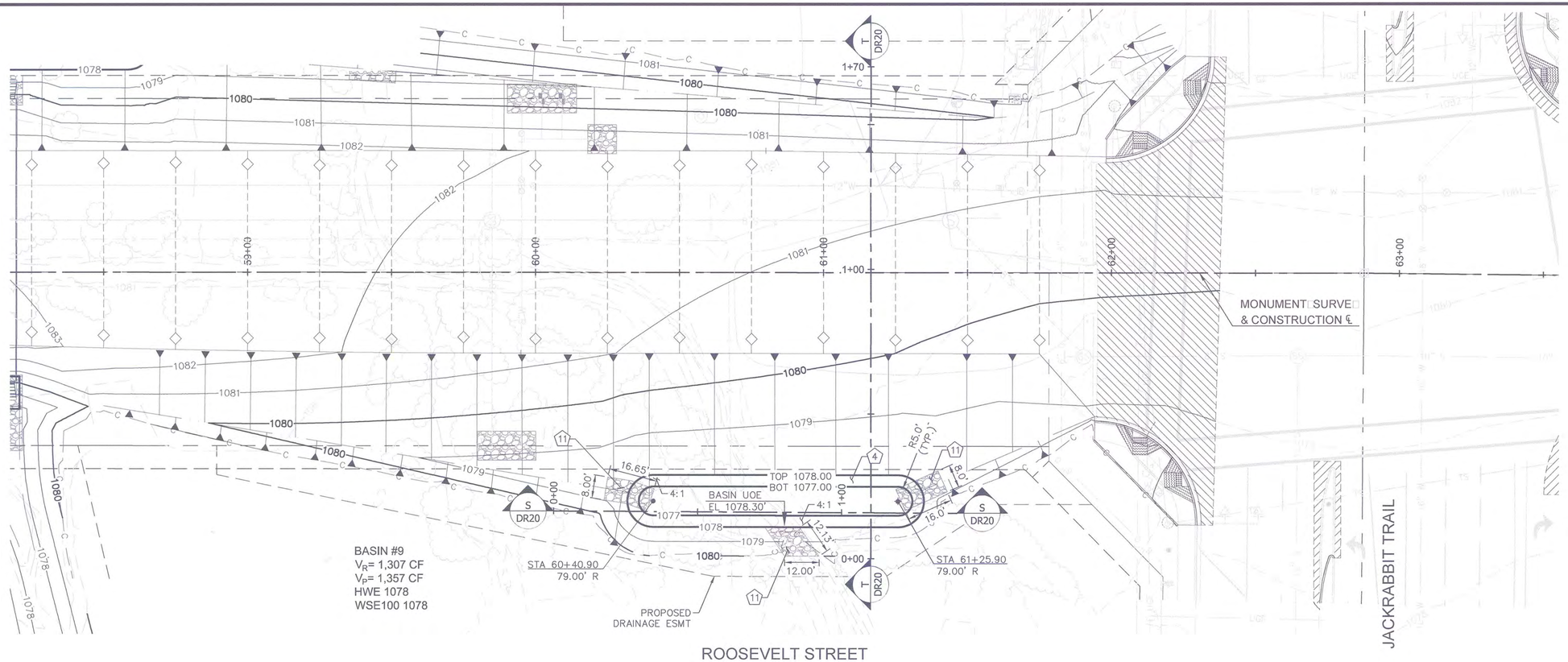
ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER DR19
61 OF 125
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

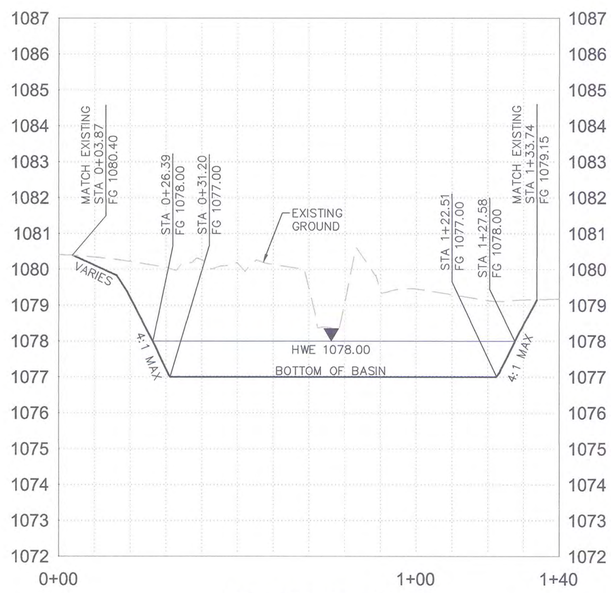
PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\61-213035-DR19.dwg

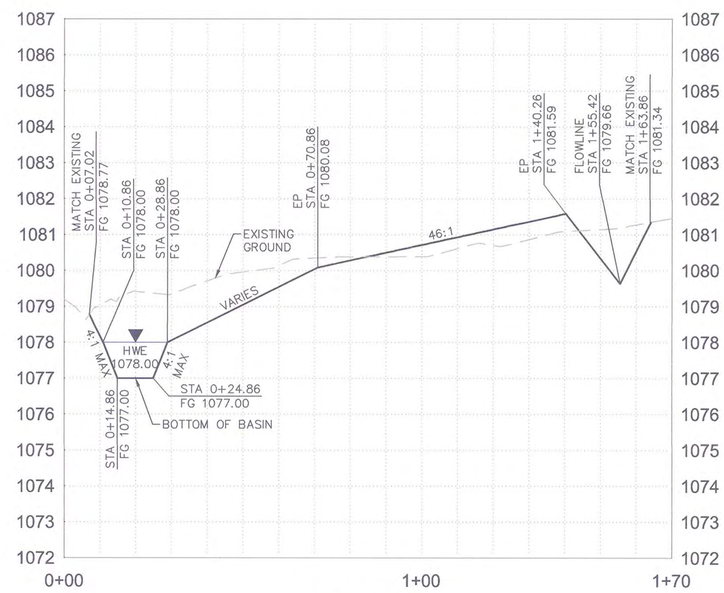
PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\62-213035-DR20.dwg





SECTION S-S



SECTION T-T

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

DRAINAGE NOTES

NO.	DESCRIPTION	QTY	UNITS
4	GRADING FOR DRAINAGE	1	LS
11	DUMPED RIPRAP (D50: 9"), PER MAG SPEC SECTION 220 AND 703; THICKNESS 18"; WITH GEOSYNTHETIC FABRIC PER MAG SEC 220	41	SY

N

0 10 20 40

HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

RETENTION BASIN

ENGINEER INFORMATION

RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

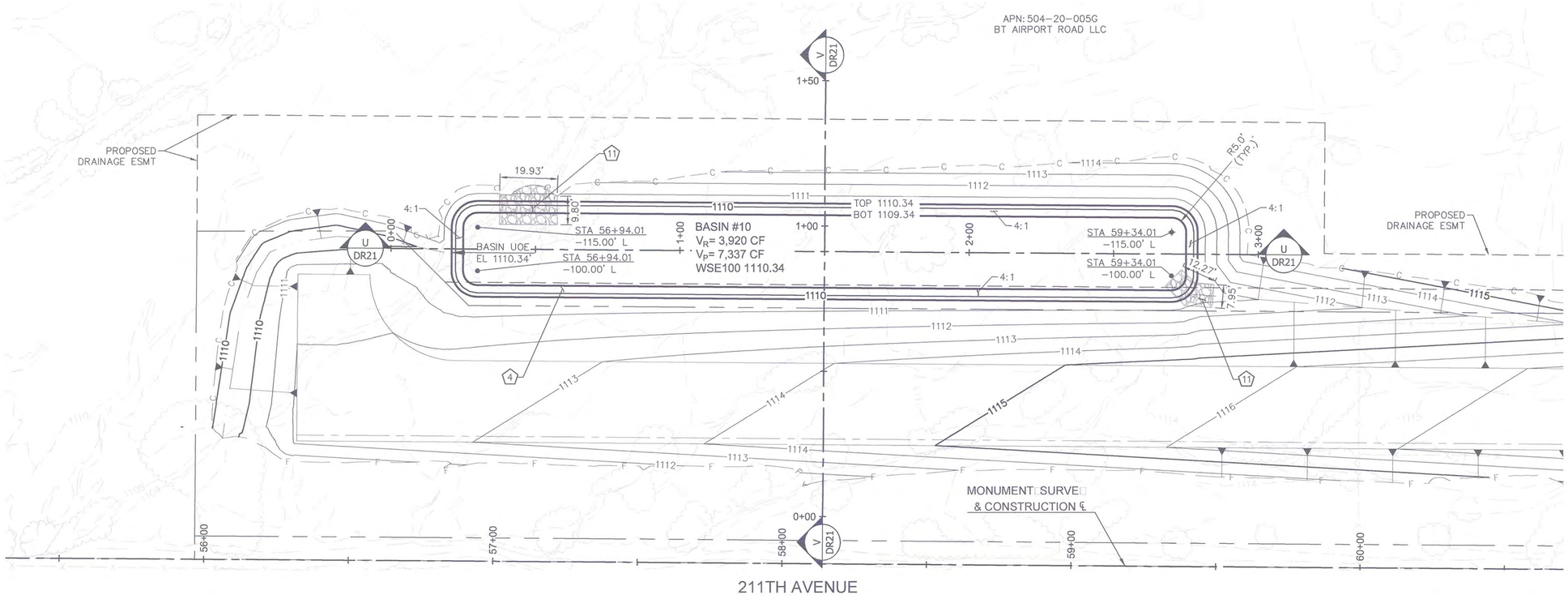
DESIGN SEAL

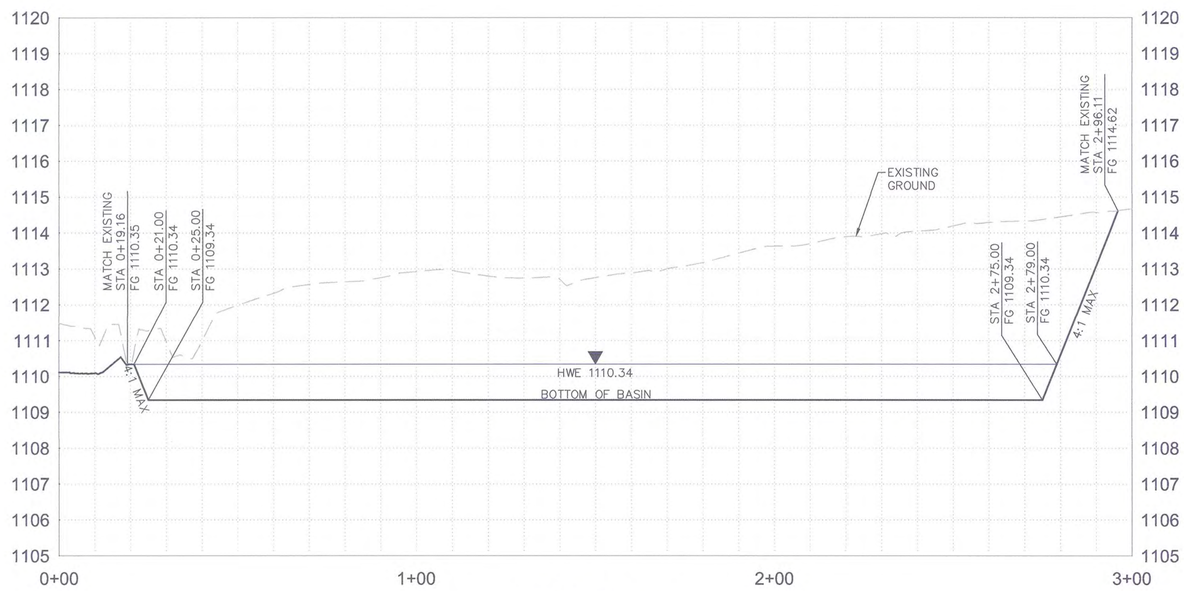
23232
PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

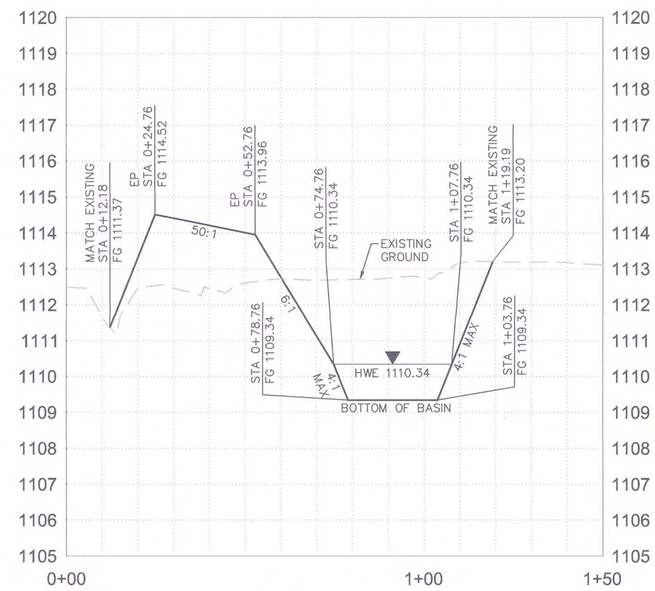
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER	SHEET NUMBER
2014-071	DR20





SECTION U-U



SECTION V-V

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

CONTRUCTION NOTES

NO.	DESCRIPTION	QTY	UNITS
4	GRADING FOR DRAINAGE	1	LS
11	DUMPED RIPRAP (D50: 9"): PER MAG SPEC SECTION 220 AND 703: THICKNESS 18"): WITH GEOS: NTHETIC FABRIC PER MAG SEC 220	36	S:

HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
RETENTION BASIN

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
EXPIRES 03/31/2018

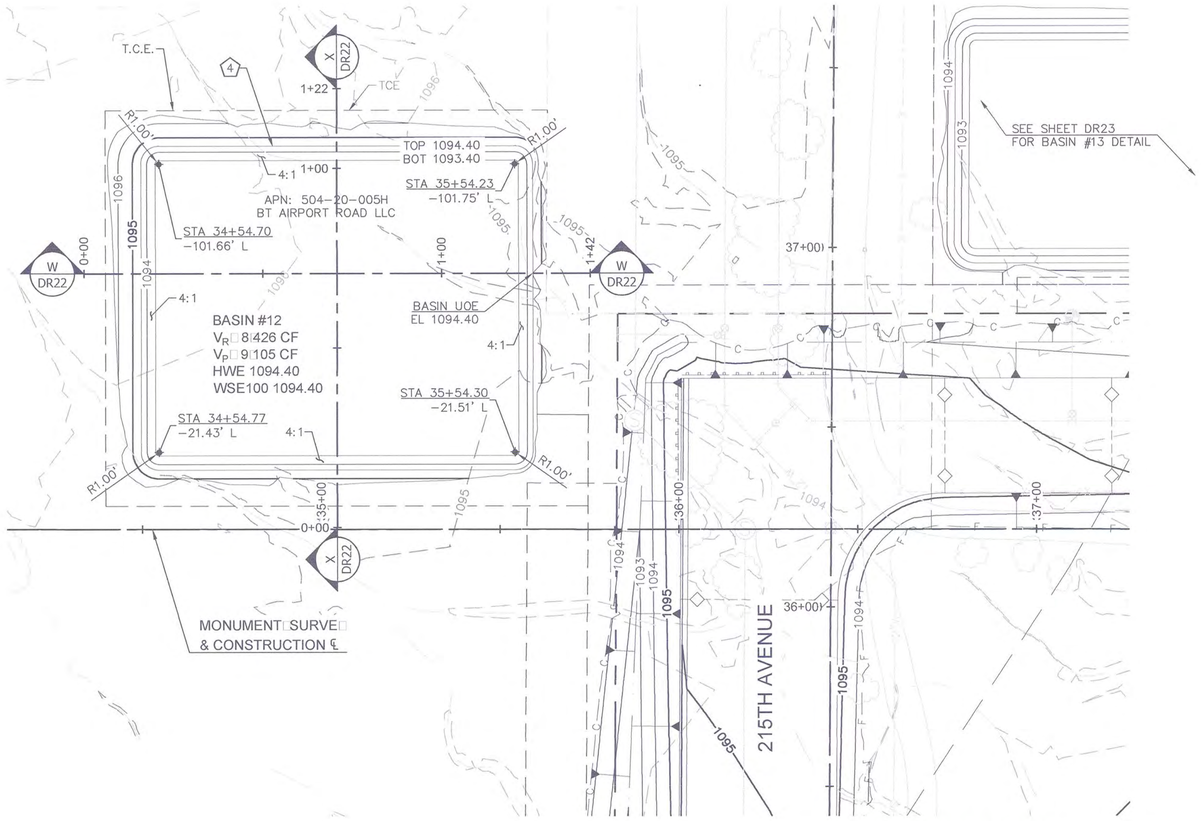
COB PLAN TRACKING # ENG-16-00003

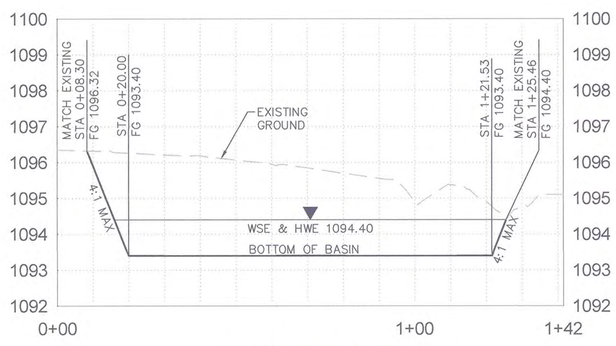
COB PERMIT #

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER DR21
63 OF 125

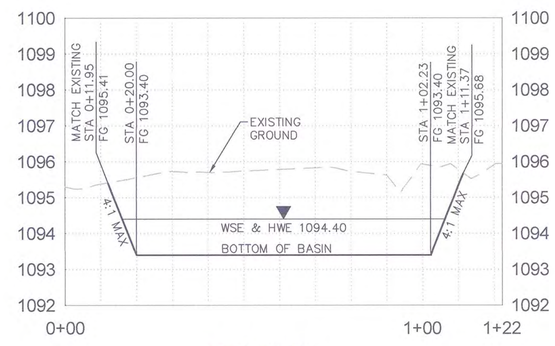
PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\63-213035-DR21.dwg





SECTION W-W



SECTION □-□

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

DRAINAGE NOTES

NO.	DESCRIPTION	QTY	UNITS
4	GRADING FOR DRAINAGE	1	LS

NOTE:

STATION/OFFSET DATA INDICATED FROM ROOSEVELT STREET CONSTRUCTION CENTERLINE

N

0 10 20 40

HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
RETENTION BASIN

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
23232
PETER H. HEMINGWAY
Date Signed 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

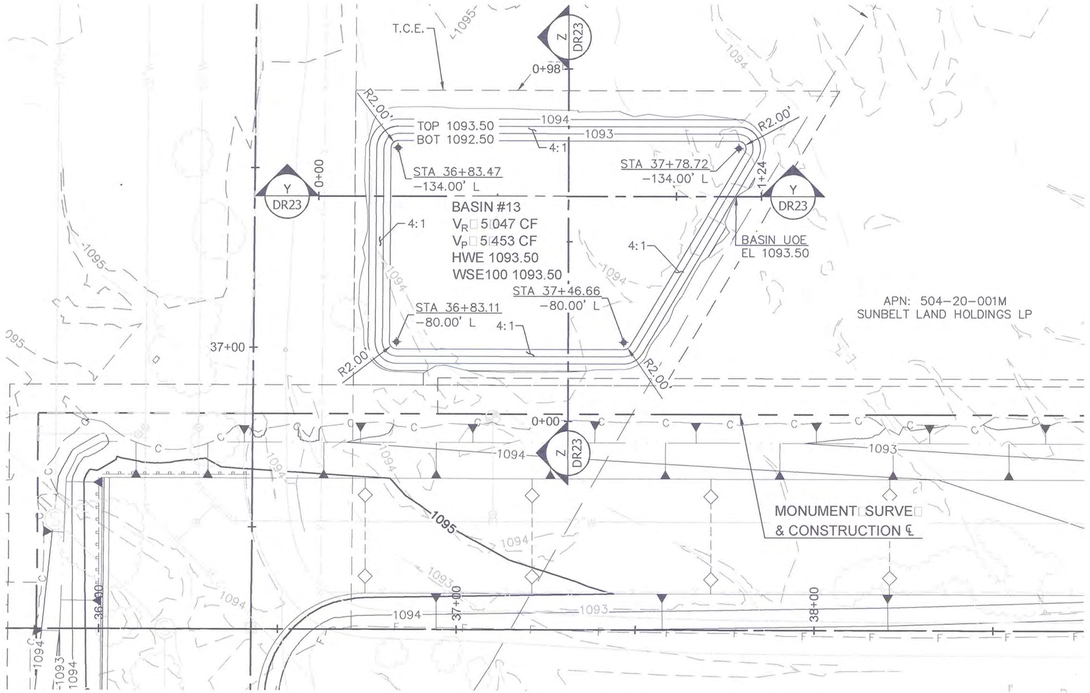
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

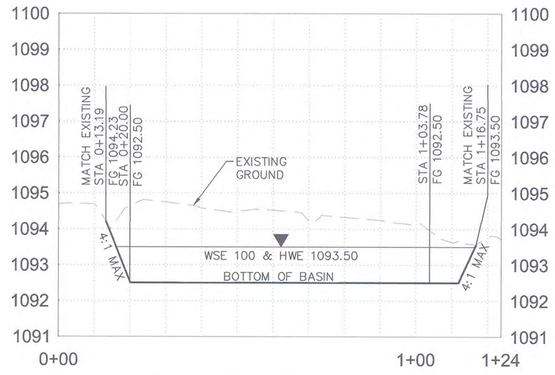
PROJECT NUMBER	SHEET NUMBER	
2014-071	DR22	64 OF 125

PLOT DATE: Dec 13, 2017

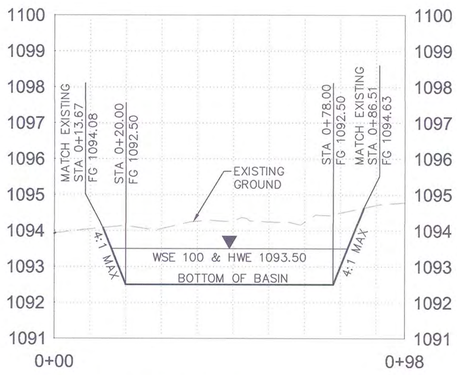
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\64-213035-DR22.dwg



ROOSEVELT STREET



SECTION □-□



SECTION □-□

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

DRAINAGE NOTES

NO.	DESCRIPTION	QTY	UNITS
4	GRADING FOR DRAINAGE	1	LS

N

0 10 20 40

HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
RETENTION BASIN

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232
PETER H. HEMINGWAY
Date Signed 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE 12-27-2016

LATEST REVISION DATE 12-11-17

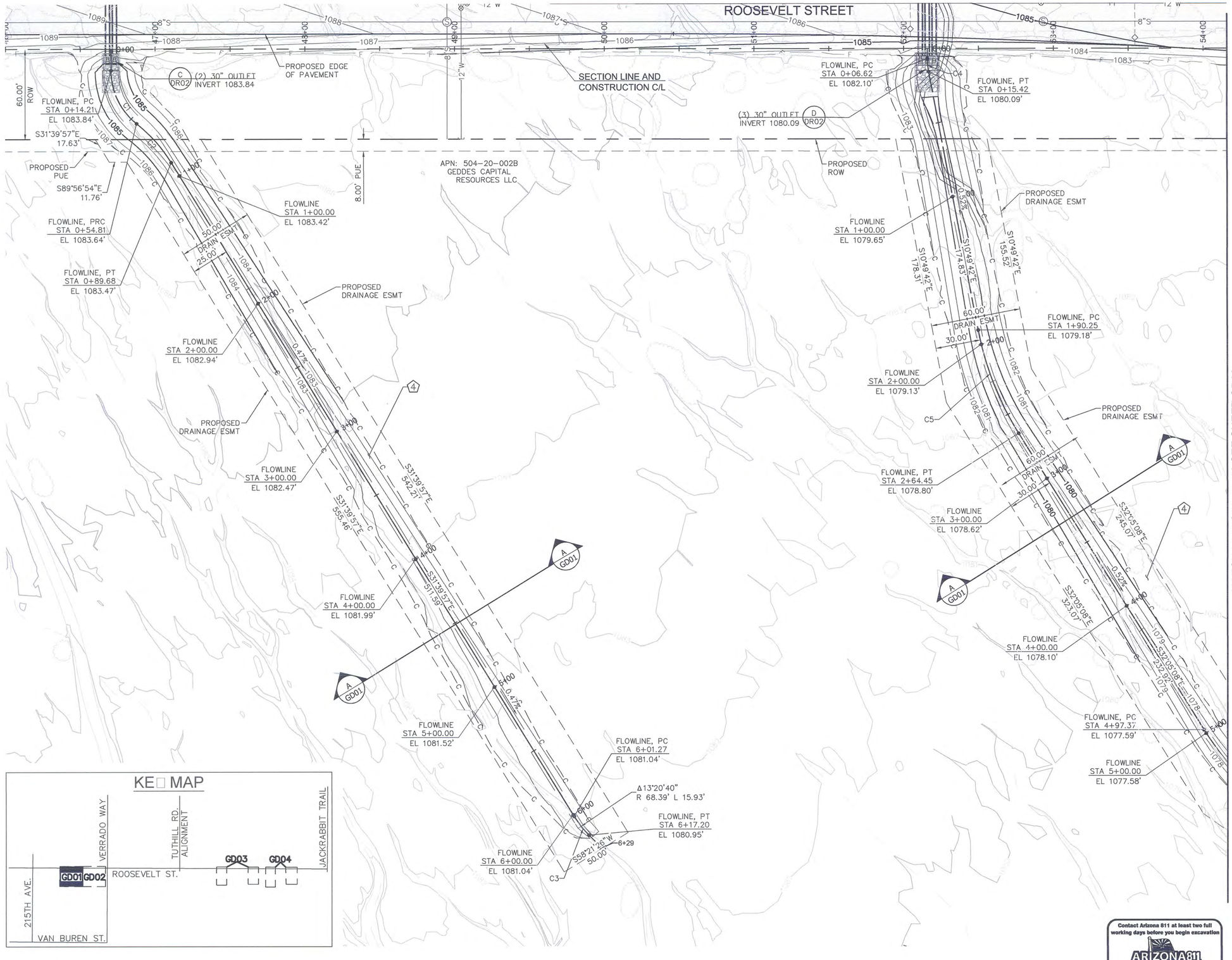
PROJECT NUMBER 2014-071

SHEET NUMBER DR23

65 OF 125

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\65-213035-DR23.dwg

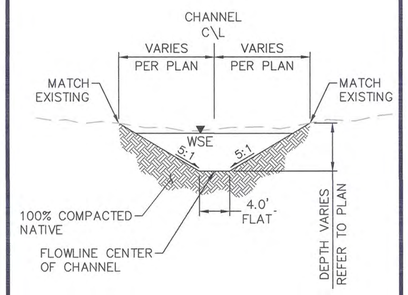


GRADING NOTES

NO.	DESCRIPTION	QTY	UNITS
4	GRADING FOR DRAINAGE	1	LS

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
C4	10°52'47"	46.34'	8.80'
C5	21°15'26"	200.00'	74.20'
C1	51°41'43"	45.00'	40.60'
C2	19°58'41"	100.00'	34.87'
C3	13°20'40"	68.39'	15.93'



SECTION A-A

N.T.S

N

0 15 30 60

HORIZONTAL 1" = 30'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

GRADING AND DRAINAGE PLAN
ROOSEVELT STREET

ENGINEER INFORMATION

RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL

23232 PETER H. HEMINGWAY ARIZONA U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

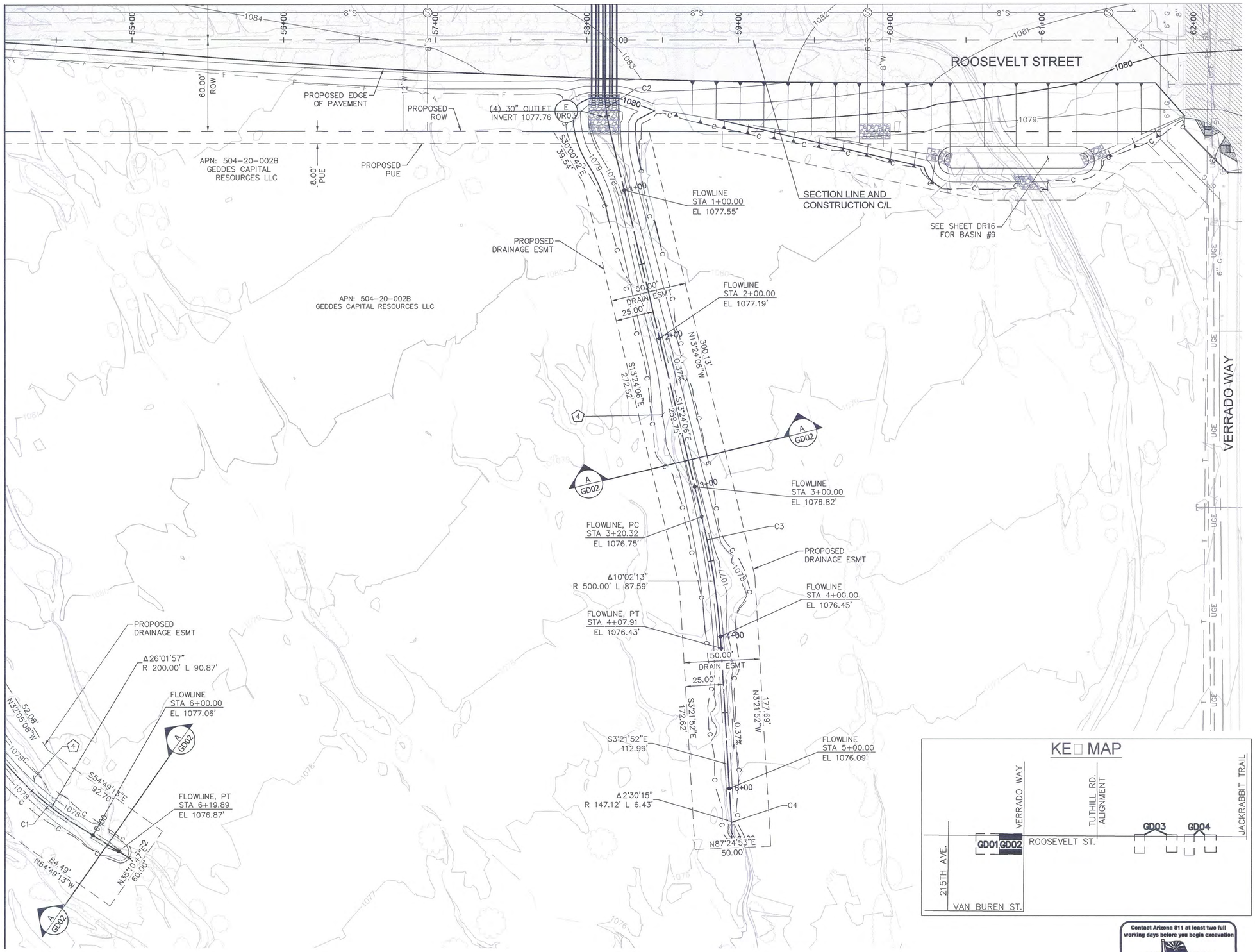
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER	
2014-071	GD01	66 OF 125

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\66-215035-GD01.dwg

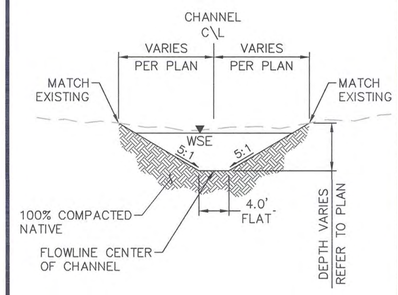


GRADING NOTES

NO.	DESCRIPTION	QTY	UNITS
4	GRADING FOR DRAINAGE	1	LS

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
C1	26°01'57"	200.00'	90.87'
C2	13°27'11"	147.12'	34.54'
C3	10°02'13"	500.00'	87.59'
C4	2°30'15"	147.12'	6.43'



SECTION A-A

N.T.S

N

0 15 30 60

HORIZONTAL 1" = 30'

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

GRADING AND DRAINAGE PLAN
ROOSEVELT STREET

ENGINEER INFORMATION

RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

Registered Professional Engineer (Civil)
23232
PETER H. HEMINGWAY
Date Signed 12/11/17
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

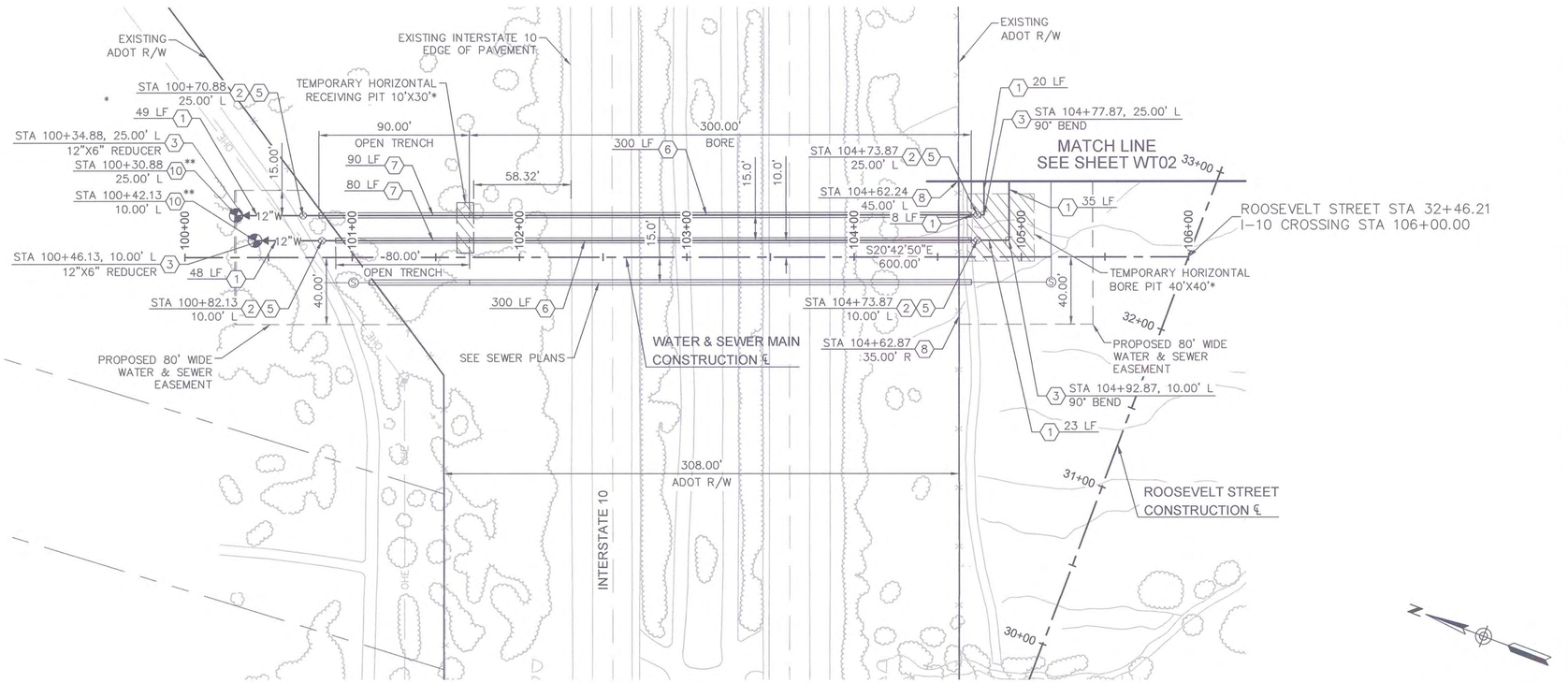
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

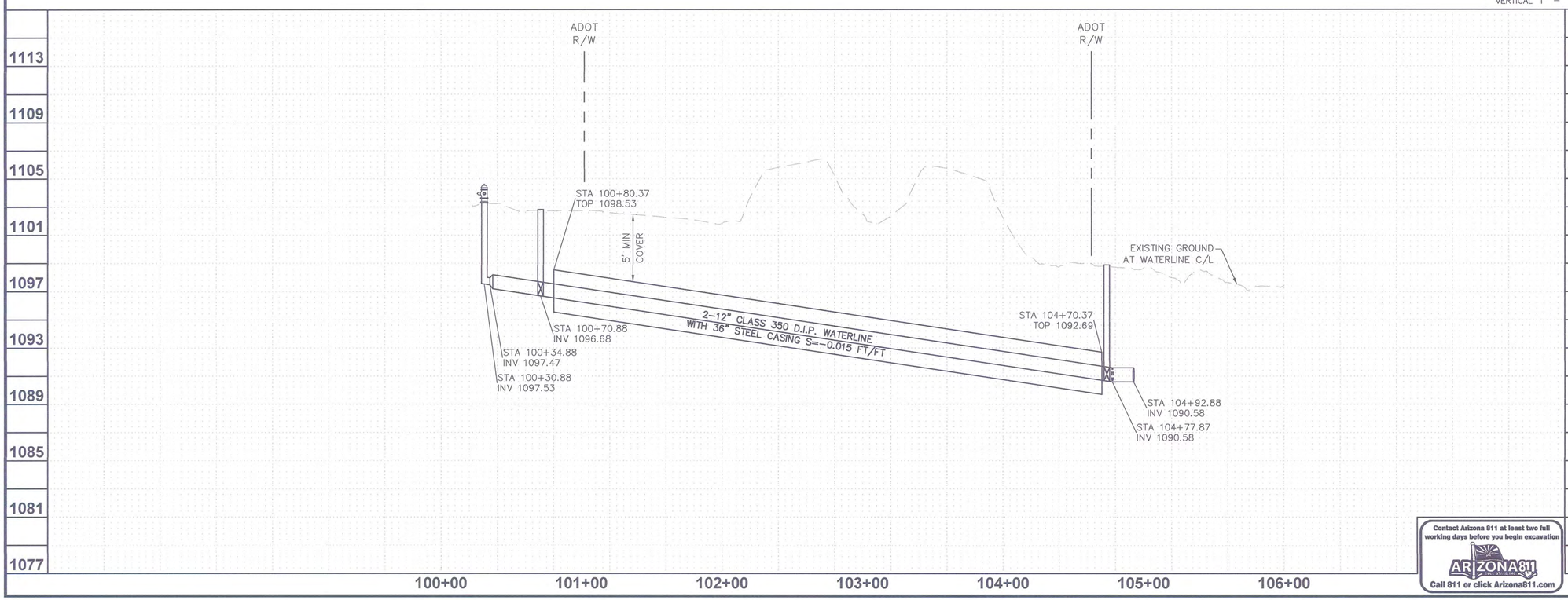
PROJECT NUMBER	SHEET NUMBER	
2014-071	GD02	67 OF 125

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\67-215035-GD02.dwg



INTERSTATE - 10 CROSSING



Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

WATER NOTES

NO.	DESC.	QTY	UNITS
1	12" CLASS 350 POL -WRAPPED D.I.P. WATER MAIN WITH JOINT RESTRAINT PER MAG STD DET 303-1 & 303-2 WATER MAIN TRENCHING WITH TRACER WIRE PER COB STD DET 31380	183	LF
2	12" GATE VALVE VALVE BO AND COVER PER MAG STD DET 391-1 T PE A WITH BLOCKING PER MAG STD DET 301	4	EA
3	12" CLASS 350 POL -WRAPPED D.I.P. MECHANICAL JOINT FITTING WITH ELECTRONIC MARKER BALL. SEE PLAN FOR ANGLE & T PE. THRUST BLOCKS PER MAG STD DET 380.	4	EA
5	ADJUST WATER VALVE BO AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 T PE A WITH BLUE CARSONITE MARKER LABELED "WATER VALVE" WITHIN 2 FEET OF THE VALVE	4	EA
6	12" CLASS 350 POL -WRAPPED D.I.P. WATER MAIN WITH JOINT RESTRAINT PER MAG STD DET 303-1 & 303-2 IN 36" CASING PER COB STD DET 31384 & MAG SPEC 602 INSTALLED B JACK AND BORE. TRACER WIRE PER COB SPEC 3-1.210. REFER TO PLAN FOR ANTICIPATED BORE PIT LOCATIONS.	600	LF
7	12" CLASS 350 POL -WRAPPED D.I.P. WATER MAIN WITH JOINT RESTRAINT PER MAG STD DET 303-1 & 303-2 IN 36" CASING PER COB STD DET 31384 & MAG SPEC 602. WATER MAIN TRENCHING WITH TRACER WIRE PER COB STD DET 31380	170	LF
8	REMOVE AND REPLACE FENCE	100	LF
10	FIRE H DRANT PER MAG STD DET 360 AND COB STD DET 31410 31412 & 31414 WITH PAVEMENT MARKER PER COB STD DET 31440	2	EA

NOTE: ALL WATER VALVE BO ES LOCATED OUTSIDE OF PAVED AREAS WILL RE UIRE A BLUE CARSONITE MARKER LABELED "WATER VALVE" WITHIN TWO FEET OF THE VALVE.

NOTE: BORE AND RECEIVING PIT DIMENSIONS ARE APPRO IMATE AND DO NOT INCLUDE BENCHING OR SHORING. CONTRACTOR RESPONSIBLE TO DETERMINE E ACT SI E OF PIT RE UIRED.

NOTE: H DRANT "OUT OF SERVICE" SIGN TO BE INSTALLED PER COB STD DTL 31425. NO FIRE H DRANT PAVEMENT MARKER INSTALLED.

WARNING: OVERHEAD POWER LINES WITHIN PROJECT LIMITS.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
WATER PLAN AND PROFILE
INTERSTATE 10 CROSSING
STA 100+00 TO 105+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

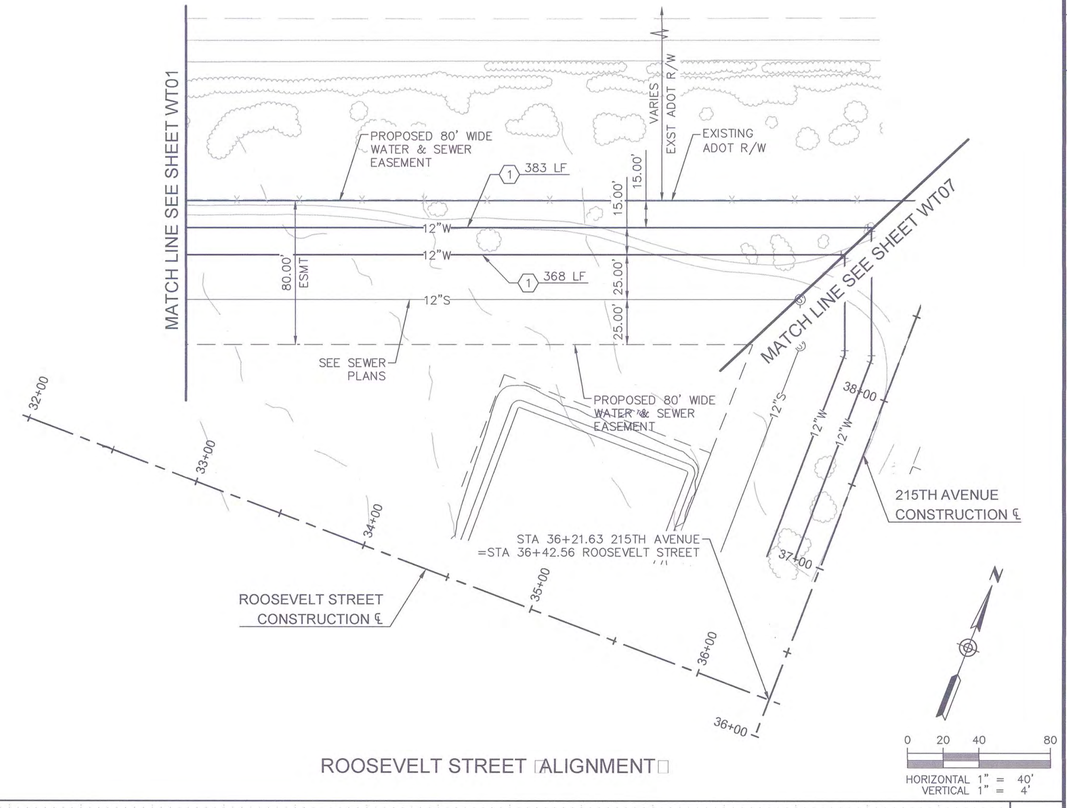
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

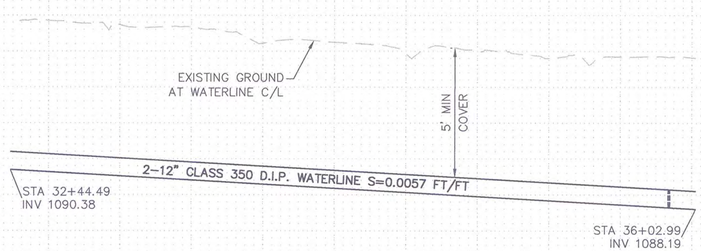
PROJECT NUMBER	SHEET NUMBER
2014-071	WT01 68 OF 125

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\68-215035-WT01.dwg



ROOSEVELT STREET ALIGNMENT



Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811 BLUE STAKE, INC.

Call 811 or click Arizona811.com

WATER NOTES

NO.	DESC.	QTY	UNITS
1	12" CLASS 350 POLY-WRAPPED D.I.P. WATER MAIN WITH JOINT RESTRAINT PER MAG STD DET 303-1 & 303-2. WATER MAIN TRENCHING WITH TRACER WIRE PER COB STD DET 31380	751	LF

NOTE: ALL WATER VALVE BOXES LOCATED OUTSIDE OF PAVED AREAS WILL REQUIRE A BLUE CARSONITE MARKER LABELED "WATER VALVE" WITHIN TWO FEET OF THE VALVE.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

WATER PLAN AND PROFILE
ROOSEVELT STREET ALIGNMENT
STA 32+94 TO 36+03

ENGINEER INFORMATION

RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL

Registered Professional Engineer (Civil)
23232
PETER H. HEMINGWAY
Date Signed 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

ORIGINAL PLAN DATE 12-27-2016

LATEST REVISION DATE 12-11-17

PROJECT NUMBER 2014-071

SHEET NUMBER WT02

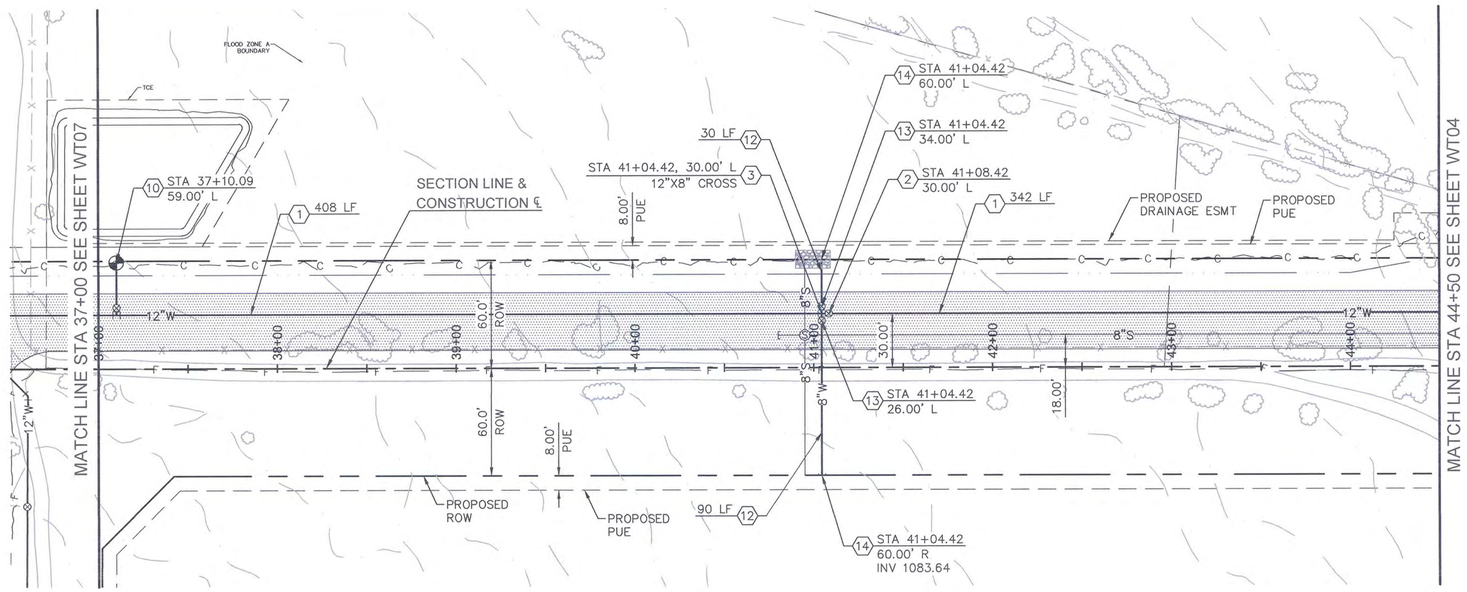
69 OF 125

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\69-215035-WT02.dwg

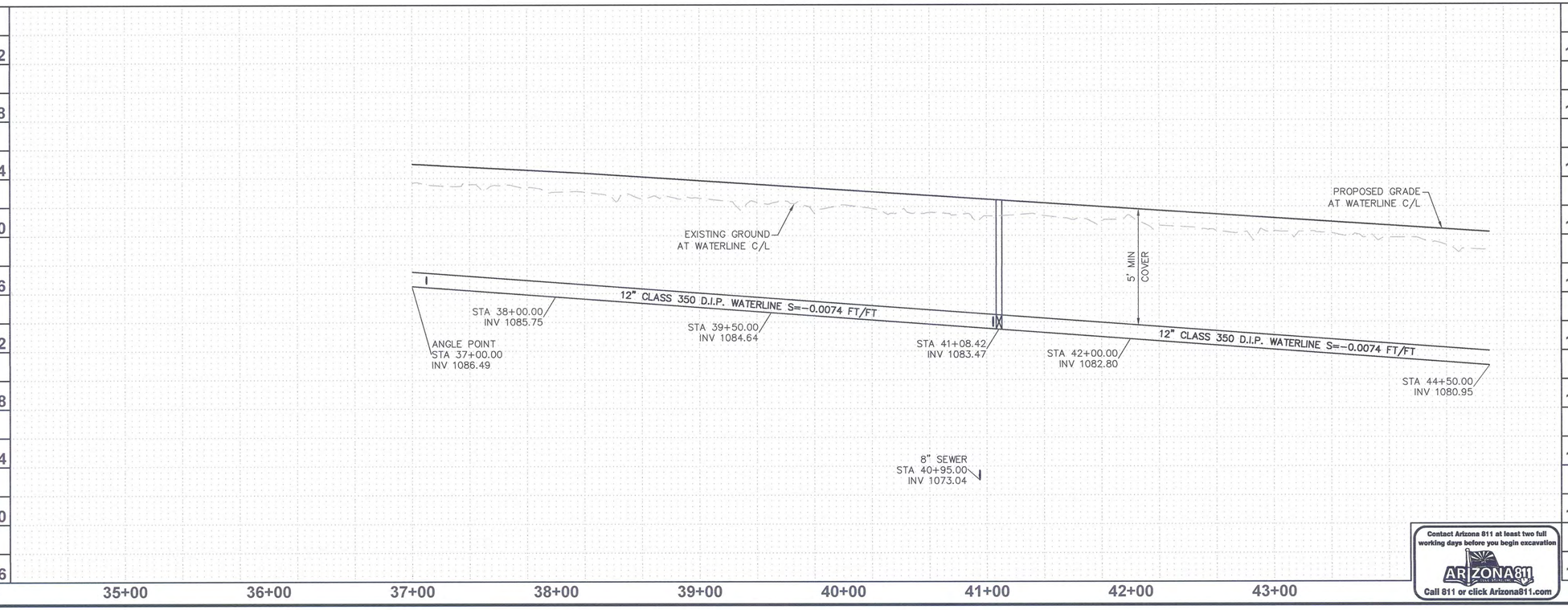


ROOSEVELT STREET

N

0 20 40 80

HORIZONTAL 1" = 40'
VERTICAL 1" = 4'



Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

WATER NOTES

NO.	DESC.	QTY	UNITS
1	12" CLASS 350 POLI -WRAPPED D.I.P. WATER MAIN WITH JOINT RESTRAINT PER MAG STD DET 303-1 & 303-2. WATER MAIN TRENCHING WITH TRACER WIRE PER COB STD DET 31380	750	LF
2	12" GATE VALVE VALVE BOX AND COVER PER MAG STD DET 391-1 TYPE A WITH BLOCKING PER MAG STD DET 301	1	EA
3	12" CLASS 350 POLI -WRAPPED D.I.P. MECHANICAL JOINT FITTING WITH ELECTRONIC MARKER BALL. SEE PLAN FOR ANGLE & TYPE. THRUST BLOCKS PER MAG STD DET 380.	1	EA
10	FIRE HYDRANT PER MAG STD DET 360 AND COB STD DET 31410, 31412 & 31414 WITH PAVEMENT MARKER PER COB STD DET 31440	1	EA
12	8" CLASS 350 POLI -WRAPPED D.I.P. WATER MAIN WITH JOINT RESTRAINT PER MAG STD DET 303-1 & 303-2. WATER MAIN TRENCHING WITH TRACER WIRE PER COB STD DET 31380	120	LF
13	8" GATE VALVE VALVE BOX AND COVER PER MAG STD DET 391-1 TYPE A WITH BLOCKING PER MAG STD DET 301	2	EA
14	8" D.I.P. TAPPED CAP WITH CORP STOP PER MAG STD DET 390 TYPE A	2	EA

NOTE: ALL WATER VALVE BOXES LOCATED OUTSIDE OF PAVED AREAS WILL REQUIRE A BLUE CARSONITE MARKER LABELED "WATER VALVE" WITHIN TWO FEET OF THE VALVE.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
WATER PLAN AND PROFILE
ROOSEVELT STREET
STA 37+00 TO 44+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
12/11/17
ARIZONA, U.S.A.
EXPIRES 03/31/2018

SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

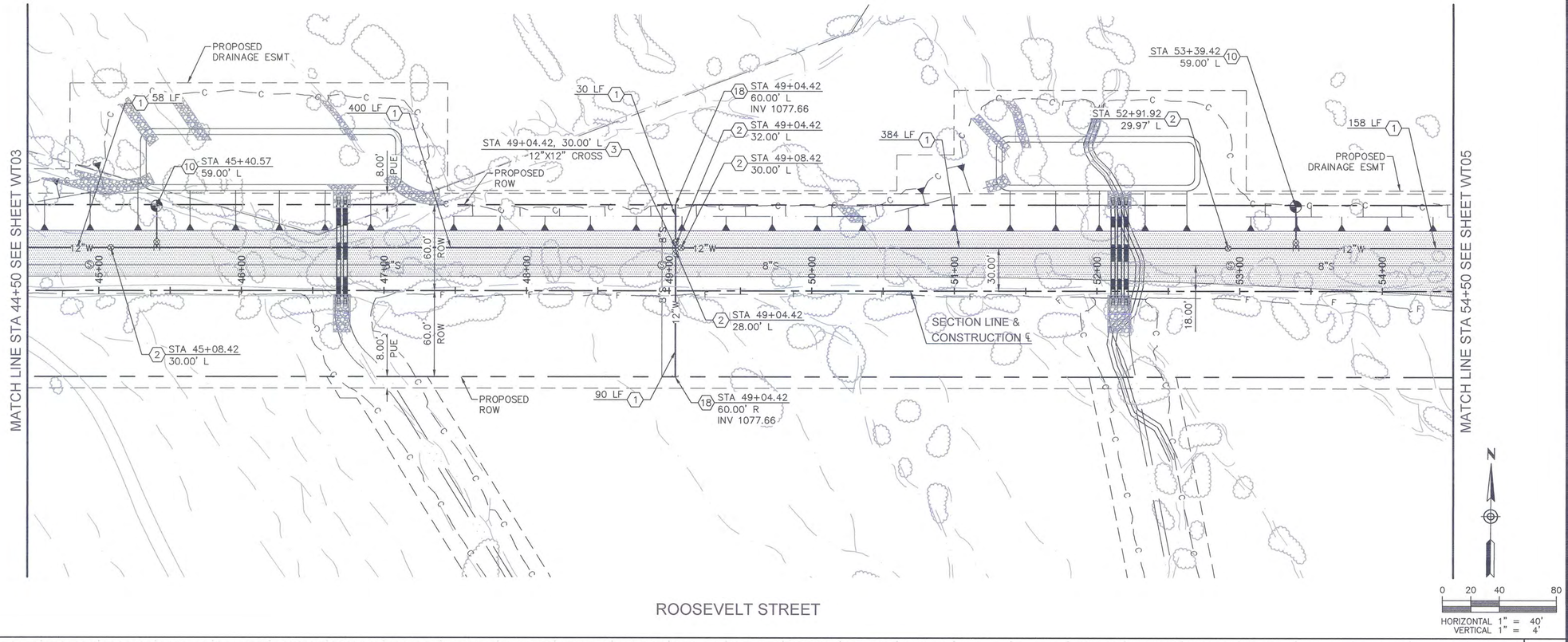
COB PERMIT #

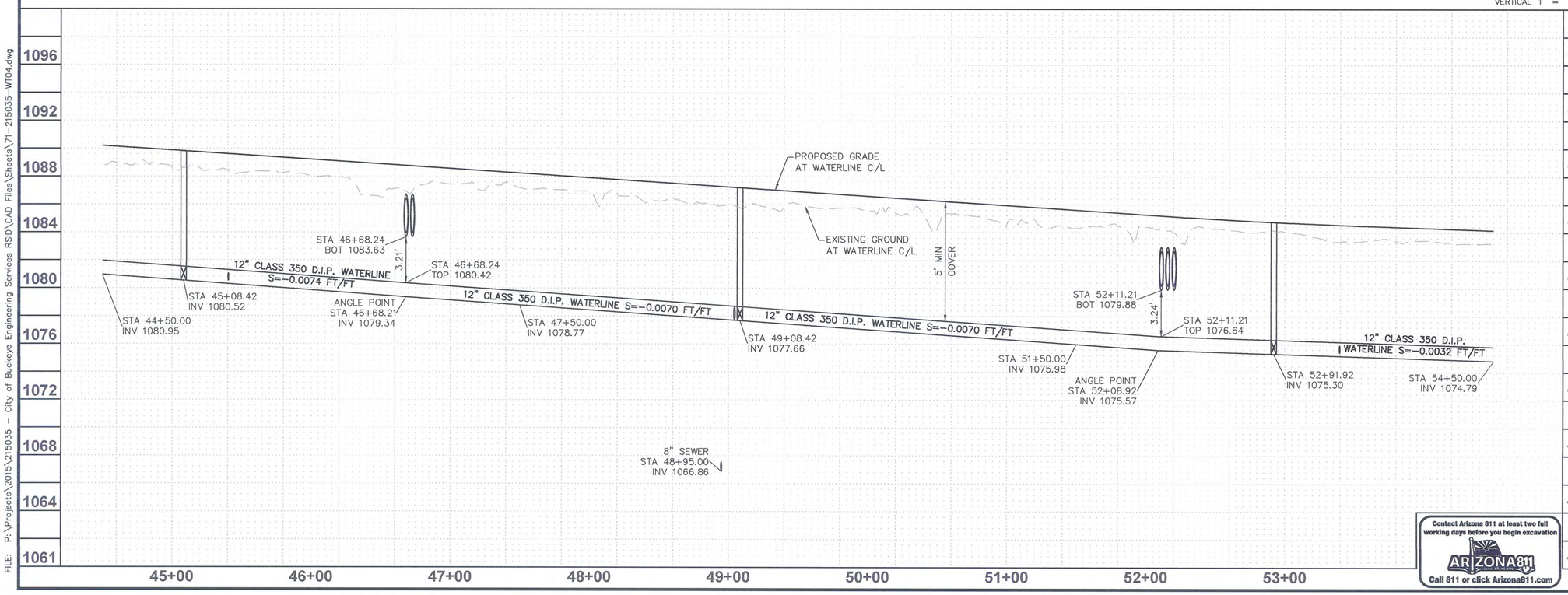
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER	
2014-071	WT03	70 OF 125

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\70-215035-WT03.dwg





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

WATER NOTES

NO.	DESC.	QTY	UNITS
1	12" CLASS 350 POLY-WRAPPED D.I.P. WATER MAIN WITH JOINT RESTRAINT PER MAG STD DET 303-1 & 303-2. WATER MAIN TRENCHING WITH TRACER WIRE PER COB STD DET 31380	1:120	LF
2	12" GATE VALVE. VALVE BOX AND COVER PER MAG STD DET 391-1 TYPE A WITH BLOCKING PER MAG STD DET 301	5	EA
3	12" CLASS 350 POLY-WRAPPED D.I.P. MECHANICAL JOINT FITTING WITH ELECTRONIC MARKER BALL. SEE PLAN FOR ANGLE & TYPE. THRUST BLOCKS PER MAG STD DET 380.	1	EA
10	FIRE HYDRANT PER MAG STD DET 360 AND COB STD DET 31410, 31412 & 31414 WITH PAVEMENT MARKER PER COB STD DET 31440	2	EA
18	12" D.I.P. TAPPED CAP WITH CORP STOP PER MAG STD DET 390 TYPE A	2	EA

NOTE: ALL WATER VALVE BOXES LOCATED OUTSIDE OF PAVED AREAS WILL REQUIRE A BLUE CARSONITE MARKER LABELED "WATER VALVE" WITHIN TWO FEET OF THE VALVE.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
WATER PLAN AND PROFILE
ROOSEVELT STREET
STA 44+50 TO 54+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

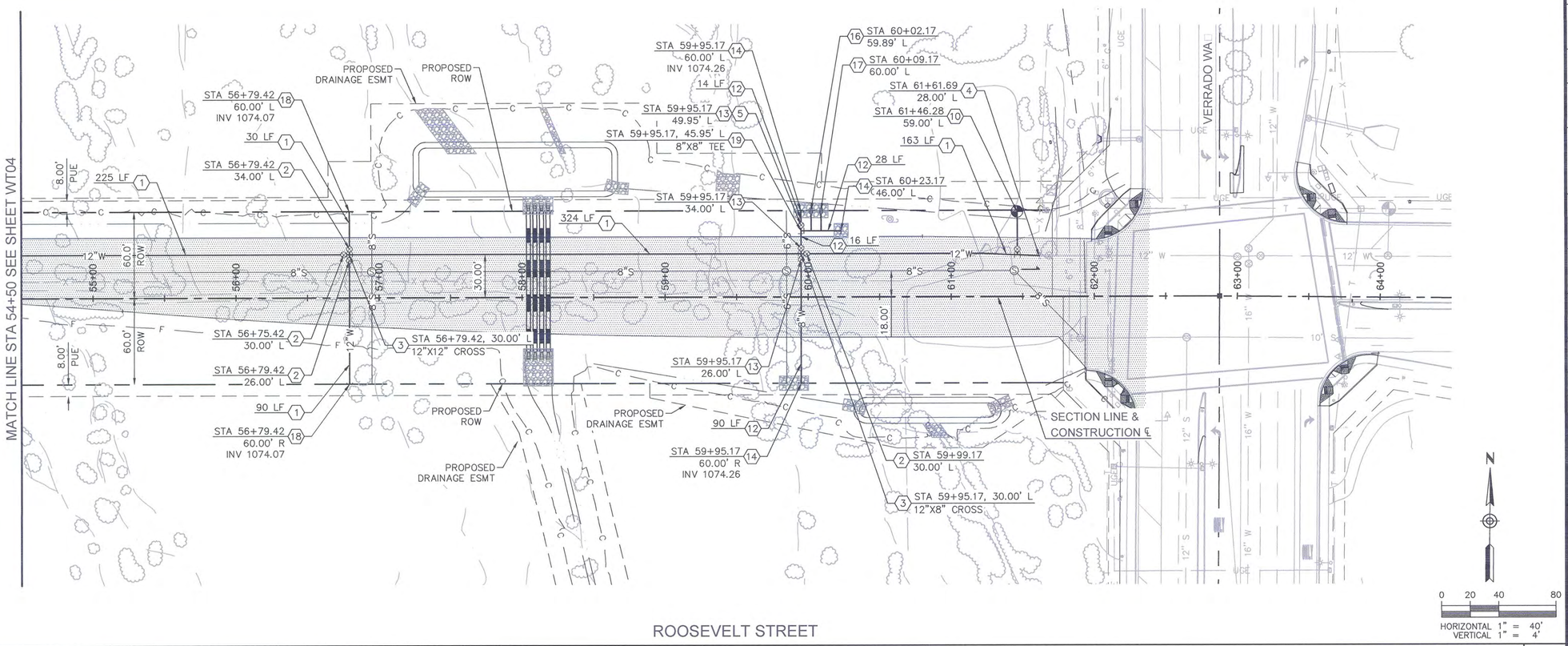
COB PERMIT #

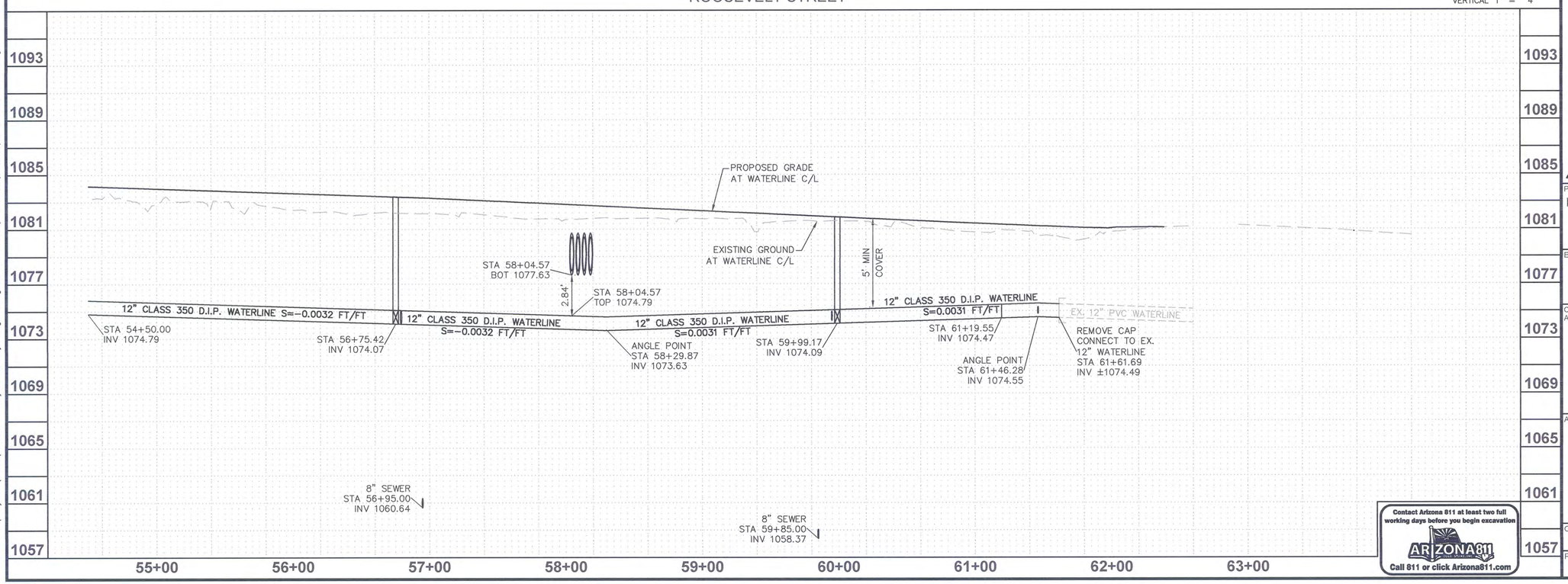
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER	
2014-071	WT04	71 OF 125

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 – City of Buckeye Engineering Services RSID\CAD Files\Sheets\71-215035-WT04.dwg





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

WATER NOTES

NO.	DESC.	QTY	UNITS
1	12" CLASS 350 POLI.-WRAPPED D.I.P. WATER MAIN WITH JOINT RESTRAINT PER MAG STD DET 303-1 & 303-2. WATER MAIN TRENCHING WITH TRACER WIRE PER COB STD DET 31380	832	LF
2	12" GATE VALVE. VALVE BO. AND COVER PER MAG STD DET 391-1 T. PE A WITH BLOCKING PER MAG STD DET 301	4	EA
3	12" CLASS 350 POLI.-WRAPPED D.I.P. MECHANICAL JOINT FITTING WITH ELECTRONIC MARKER BALL. SEE PLAN FOR ANGLE & T. PE. THRUST BLOCKS PER MAG STD DET 380.	3	EA
4	REMOVE TAPPED CAP WITH CURB STOP AND FLUSHING PIPE AND CONNECT TO E. ISTING 12" WATER MAIN STUB. CONTRACTOR TO VERIF. SI. E. MATERIAL. HORI. ONTAL AND VERTICAL LOCATION PRIOR TO START OF CONSTRUCTION AND NOTIF. ENGINEER OF DISCREPANCIES.	1	EA
5	ADJUST WATER VALVE BO. AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 T. PE A WITH BLUE CARSONITE MARKER LABELED "WATER VALVE" WITHIN 2 FEET OF THE VALVE	1	EA
10	FIRE HI. DRANT PER MAG STD DET 360 AND COB STD DET 31410. 31412 & 31414 WITH PAVEMENT MARKER PER COB STD DET 31440	1	EA
12	8" CLASS 350 POLI.-WRAPPED D.I.P. WATER MAIN WITH JOINT RESTRAINT PER MAG STD DET 303-1 & 303-2. WATER MAIN TRENCHING WITH TRACER WIRE PER COB STD DET 31380	148	LF
13	8" GATE VALVE. VALVE BO. AND COVER PER MAG STD DET 391-1 T. PE A WITH BLOCKING PER MAG STD DET 301	3	EA
14	8" D.I.P. TAPPED CAP WITH CORP STOP PER MAG STD DET 390 T. PE A	3	EA
16	2" WATER SERVICE PER COB STD DET 31330	1	EA
17	1.5" WATER SERVICE PER COB STD DET 31330	1	EA
18	12" D.I.P. TAPPED CAP WITH CORP STOP PER MAG STD DET 390 T. PE A	2	EA
19	8" CLASS 350 POLI.-WRAPPED D.I.P. MECHANICAL JOINT FITTING WITH ELECTRONIC MARKER BALL. SEE PLAN FOR ANGLE & T. PE. THRUST BLOCKS PER MAG STD DET 380.	1	EA

NOTE: ALL WATER VALVE BO. ES LOCATED OUTSIDE OF PAVED AREAS WILL RE. UIRE A BLUE CARSONITE MARKER LABELED "WATER VALVE" WITHIN TWO FEET OF THE VALVE.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
WATER PLAN AND PROFILE
ROOSEVELT STREET
STA 54+50 TO 62+00

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
DATE SIGNED 12/11/17
ARIZONA, U.S.A.
EXPIRES 03/31/2018

SUBMITTAL: 3RD SUBMITTAL

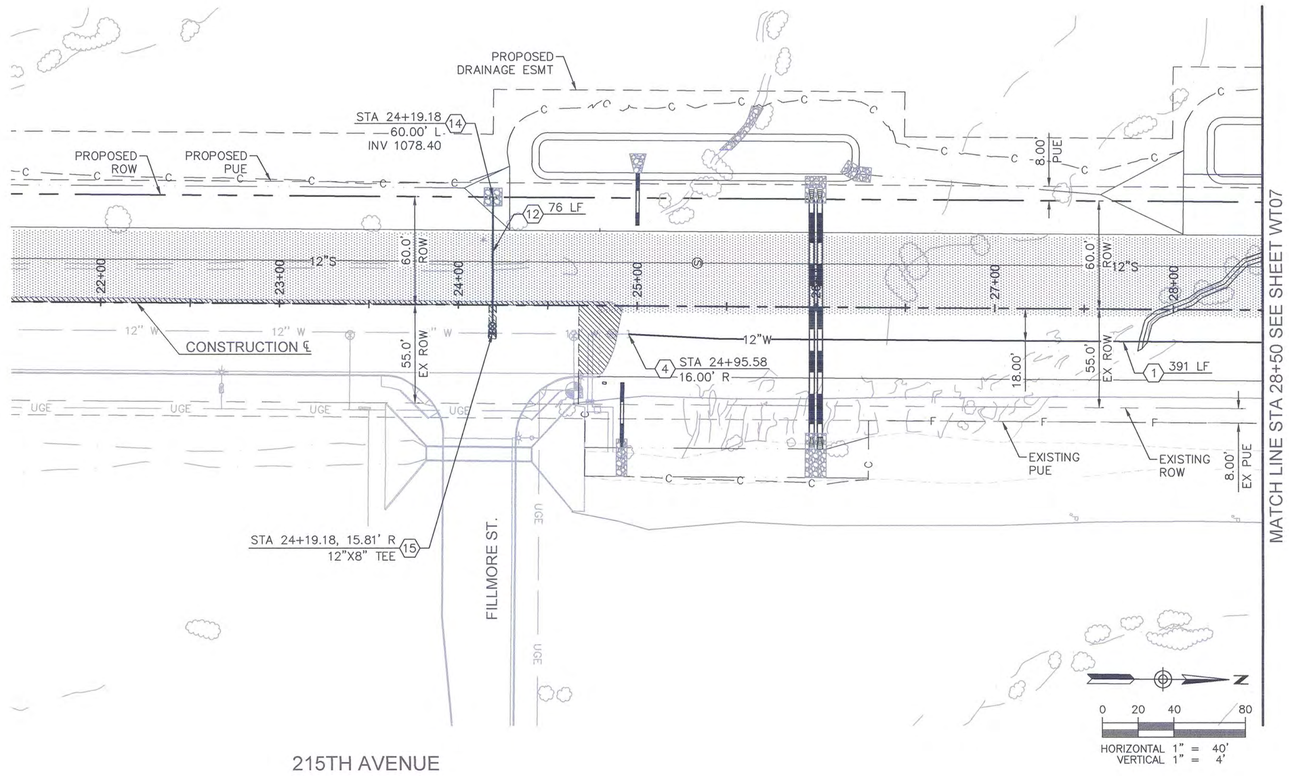
COB PLAN TRACKING # ENG-16-00003

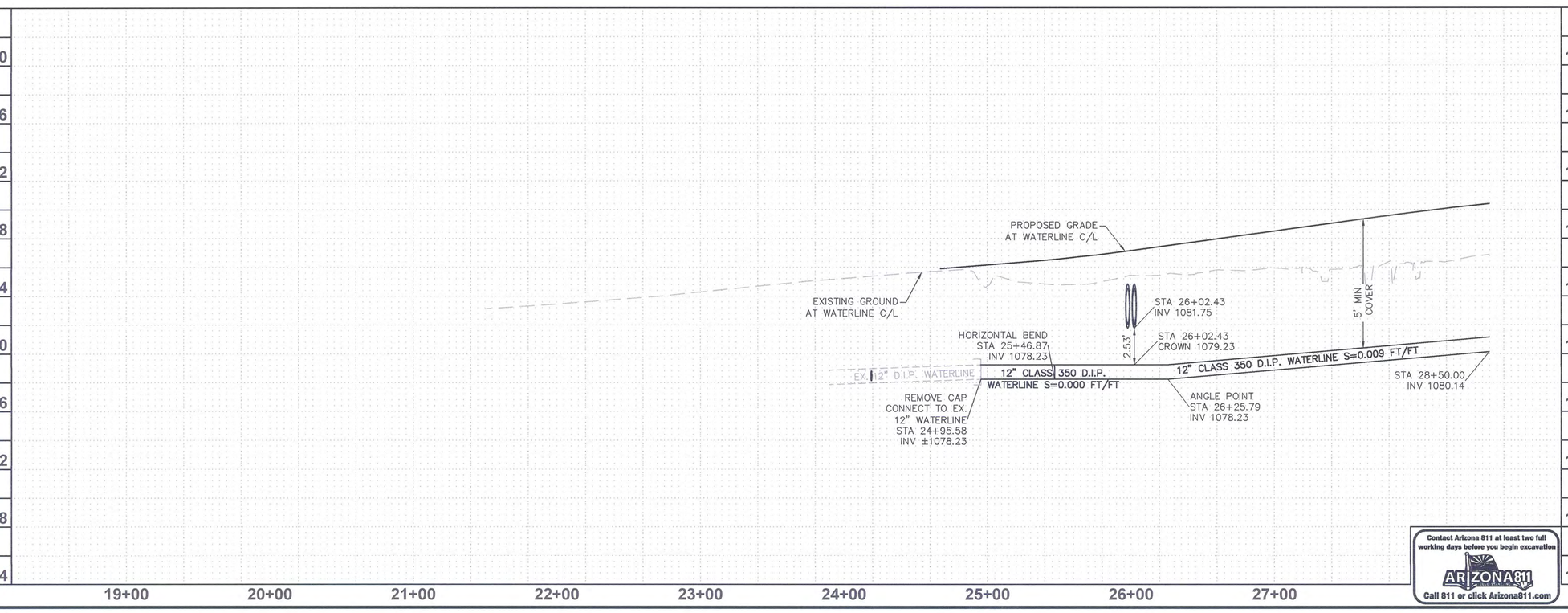
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE	
12-27-2016	12-11-17	
PROJECT NUMBER	SHEET NUMBER	
2014-071	WT05	72 OF 125

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\72-215035-WT05.dwg





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

WATER NOTES

NO.	DESC.	QTY	UNITS
1	12" CLASS 350 POL. -WRAPPED D.I.P. WATER MAIN WITH JOINT RESTRAINT PER MAG STD DET 303-1 & 303-2. WATER MAIN TRENCHING WITH TRACER WIRE PER COB STD DET 31380	355	LF
4	REMOVE TAPPED CAP WITH CURB STOP AND FLUSHING PIPE AND CONNECT TO EXISTING 12" WATER MAIN STUB. CONTRACTOR TO VERIFY SIZE, MATERIAL, HORIZONTAL AND VERTICAL LOCATION PRIOR TO START OF CONSTRUCTION AND NOTIFY ENGINEER OF DISCREPANCIES.	1	EA
12	8" CLASS 350 POL. -WRAPPED D.I.P. WATER MAIN WITH JOINT RESTRAINT PER MAG STD DET 303-1 & 303-2. WATER MAIN TRENCHING WITH TRACER WIRE PER COB STD DET 31380	76	LF
14	8" D.I.P. TAPPED CAP WITH CORP STOP PER MAG STD DET 390 TYPE A	1	EA
15	8" GATE VALVE, VALVE BOX, AND COVER PER MAG STD DET 391-1 TYPE A WITH CUT IN TEE	1	EA

NOTE: ALL WATER VALVE BOXES LOCATED OUTSIDE OF PAVED AREAS WILL REQUIRE A BLUE CARSONITE MARKER LABELED "WATER VALVE" WITHIN TWO FEET OF THE VALVE.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
WATER PLAN AND PROFILE
215TH AVENUE
STA 24+50 TO 28+50

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

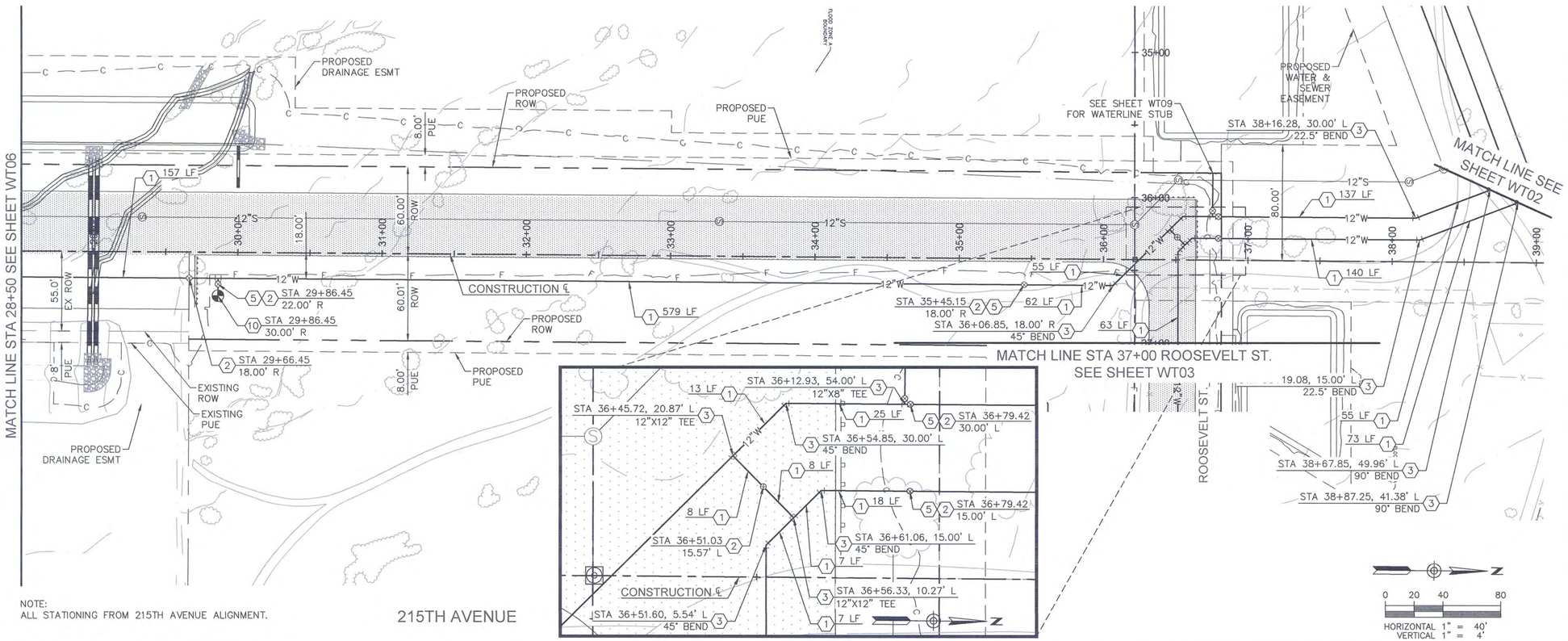
AS-BUILT SEAL

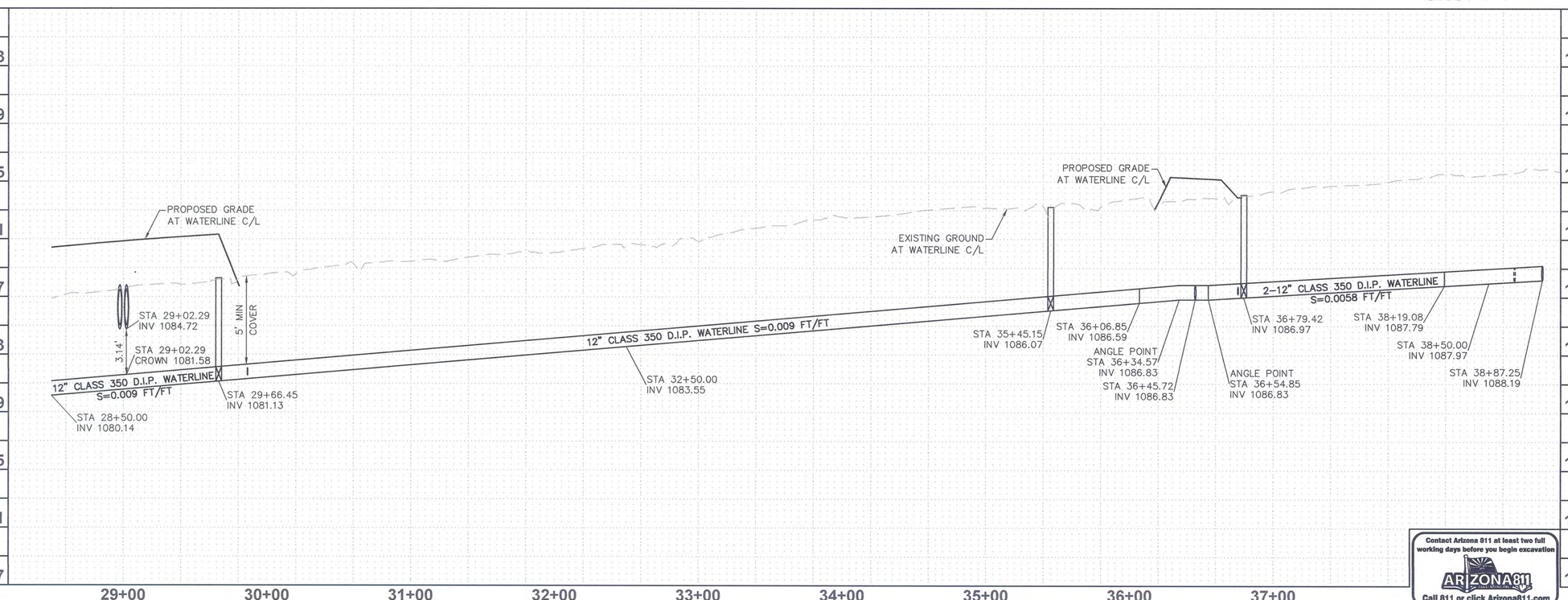
DESIGN SEAL
23232
PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER WT06
73 OF 125
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\73-215035-WT06.dwg





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

WATER NOTES

NO.	DESC.	QTY	UNITS
1	12" CLASS 350 POLY-WRAPPED D.I.P. WATER MAIN WITH JOINT RESTRAINT PER MAG STD DET 303-1 & 303-2. WATER MAIN TRENCHING WITH TRACER WIRE PER COB STD DET 31380	1,364	LF
2	12" GATE VALVE, VALVE BOX AND COVER PER MAG STD DET 391-1 TYPE A WITH BLOCKING PER MAG STD DET 301	5	EA
3	12" CLASS 350 POLY-WRAPPED D.I.P. MECHANICAL JOINT FITTING WITH ELECTRONIC MARKER BALL. SEE PLAN FOR ANGLE & TYPE. THRUST BLOCKS PER MAG STD DET 380.	11	EA
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 TYPE A WITH BLUE CARSONITE MARKER LABELED "WATER VALVE" WITHIN 2 FEET OF THE VALVE	4	EA
10	FIRE HYDRANT PER MAG STD DET 360 AND COB STD DET 31410, 31412 & 31414 WITH PAVEMENT MARKER PER COB STD DET 31440	1	EA

NOTE: ALL WATER VALVE BOXES LOCATED OUTSIDE OF PAVED AREAS WILL REQUIRE A BLUE CARSONITE MARKER LABELED "WATER VALVE" WITHIN TWO FEET OF THE VALVE.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
WATER PLAN AND PROFILE
215TH AVENUE
STA 28+50 TO 39+00

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

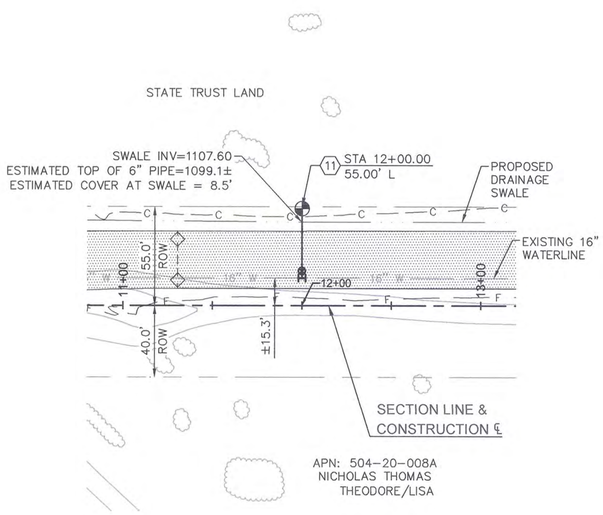
COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

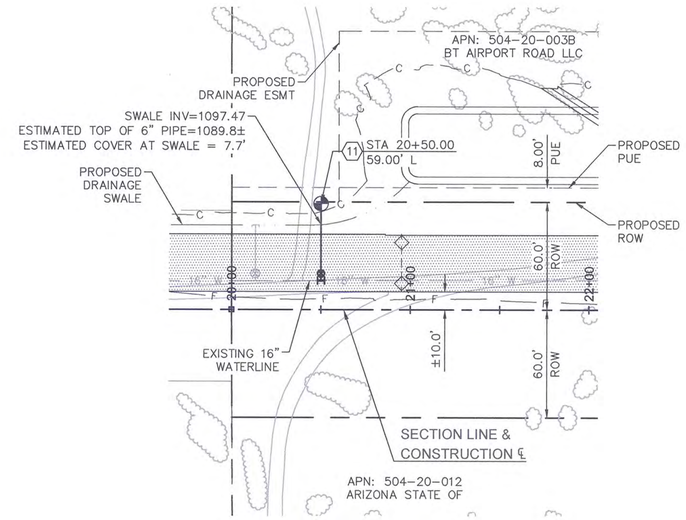
DESIGN SEAL
23232 PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER WT07
74 OF 125
SUBMITTAL: 3RD SUBMITTAL
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

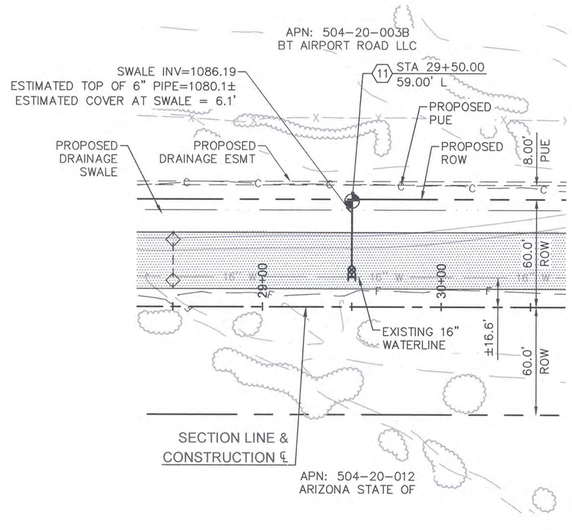
PLOT DATE: Dec 13, 2017
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\74-215035-WT07.dwg



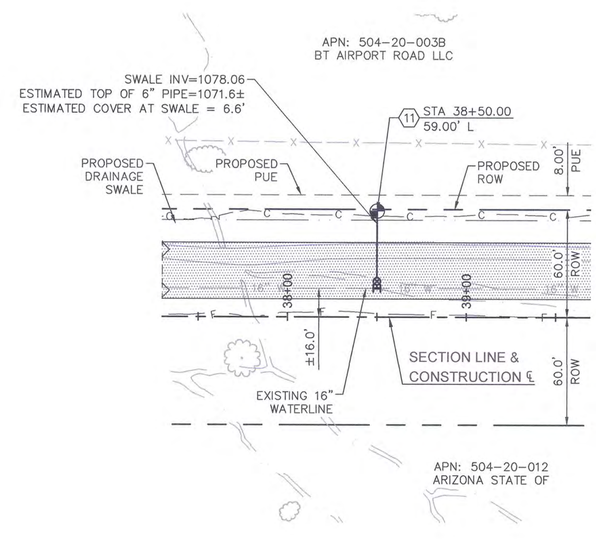
VAN BUREN STREET
STA 12+00.00



VAN BUREN STREET
STA 20+50.00



VAN BUREN STREET
STA 29+50.00

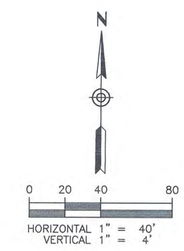


VAN BUREN STREET
STA 38+50.00

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

WATER NOTES

NO.	DESC.	QTY	UNITS
11	FIRE HYDRANT PER MAG STD DET 360 AND COB STD DET 31410, 31412 & 31414 WITH CUT IN TEE AND GATE VALVE AND WITH PAVEMENT MARKER PER COB STD DET 31440	4	EA



NOTES:

1. FIRE HYDRANT LINE MUST HAVE A MINIMUM BURY DEPTH OF 4 FEET.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
FIRE HYDRANT STUB OUTS
VAN BUREN STREET
STA 11+00 TO 39+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
Date Signed 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

SUBMITTAL: 3RD SUBMITTAL

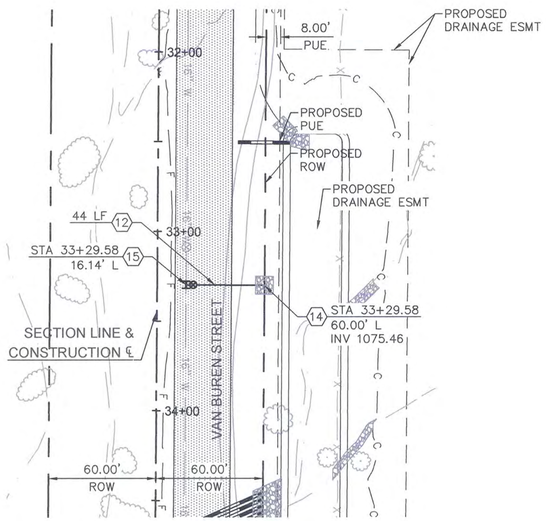
COB PLAN TRACKING #: ENG-16-00003

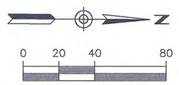
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER 2014-071	SHEET NUMBER WT08

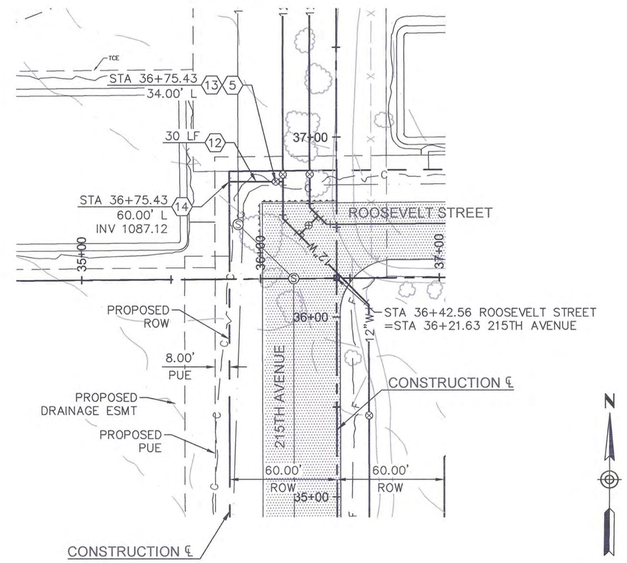
PLOT DATE: Dec 13, 2017

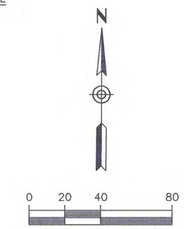
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\75-215035-WT08.dwg





NOTE:
ALL STATIONING FROM VAN BUREN STREET ALIGNMENT.

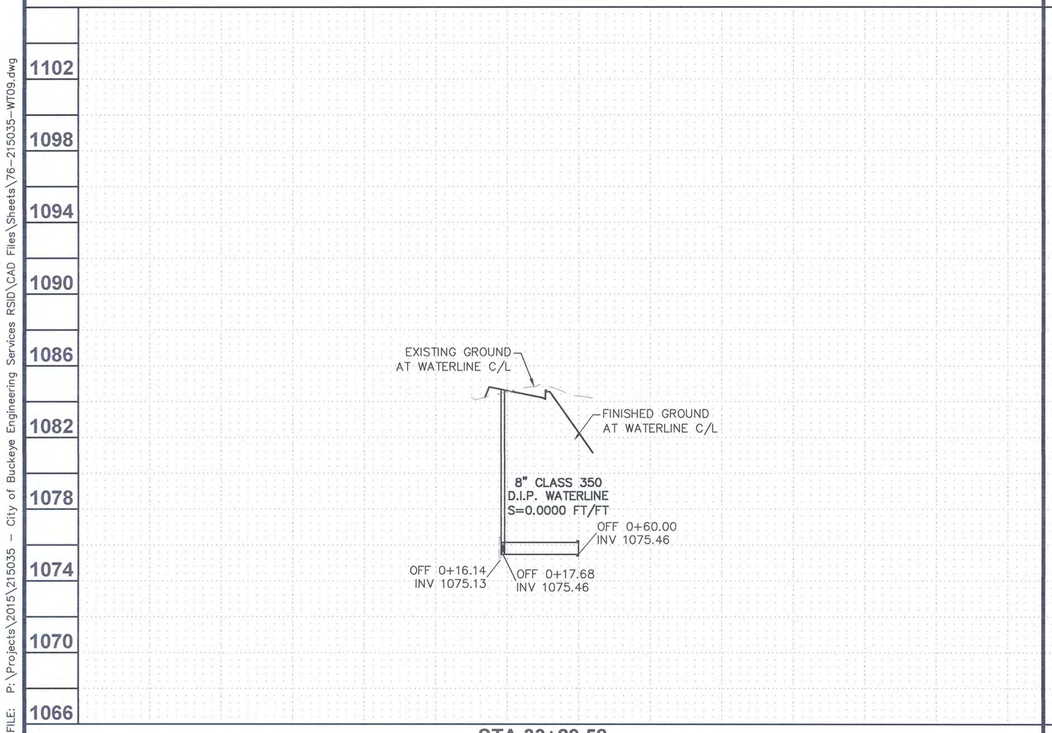




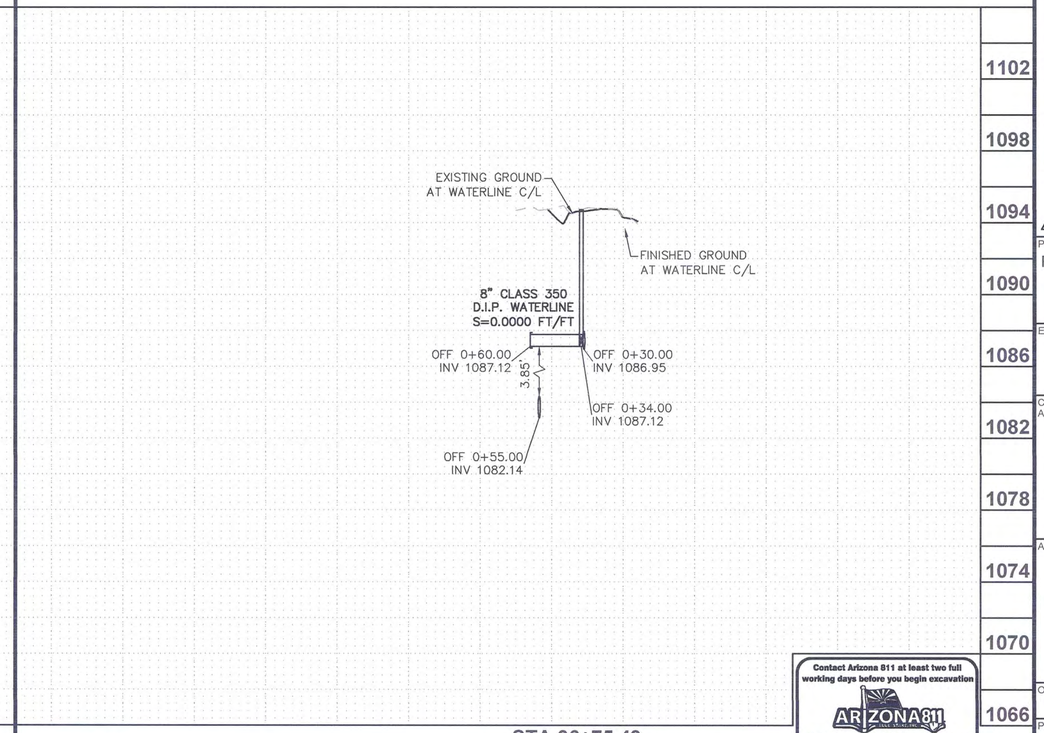
NOTE:
ALL STATIONING FROM 215TH AVENUE ALIGNMENT.

WATER NOTES

NO.	DESC.	QTY	UNITS
5	ADJUST WATER VALVE BOX AND COVER TO FINISHED GRADE PER MAG STD DET 391-1 TYPE A WITH BLUE CARSONITE MARKER LABELED "WATER VALVE" WITHIN 2 FEET OF THE VALVE	1	EA
12	8" CLASS 350 POLY-WRAPPED D.I.P. WATER MAIN WITH JOINT RESTRAINT PER MAG STD DET 303-1 & 303-2. WATER MAIN TRENCHING WITH TRACER WIRE PER COB STD DET 31380	74	LF
13	8" GATE VALVE/VALVE BOX AND COVER PER MAG STD DET 391-1 TYPE A WITH BLOCKING PER MAG STD DET 301	1	EA
14	8" D.I.P. TAPPED CAP WITH CORP STOP PER MAG STD DET 390 TYPE A	2	EA
15	8" GATE VALVE/VALVE BOX AND COVER PER MAG STD DET 391-1 TYPE A WITH CUT IN TEE	1	EA



STA 33+29.58



STA 36+75.43

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

NOTE: ALL WATER VALVE BOXES LOCATED OUTSIDE OF PAVED AREAS WILL REQUIRE A BLUE CARSONITE MARKER LABELED "WATER VALVE" WITHIN TWO FEET OF THE VALVE.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
WATER STUB PLAN AND PROFILE
VAN BUREN STREET STA 33+30
ROOSEVELT STREET STA 35+83

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
EXPIRES 03/31/2018

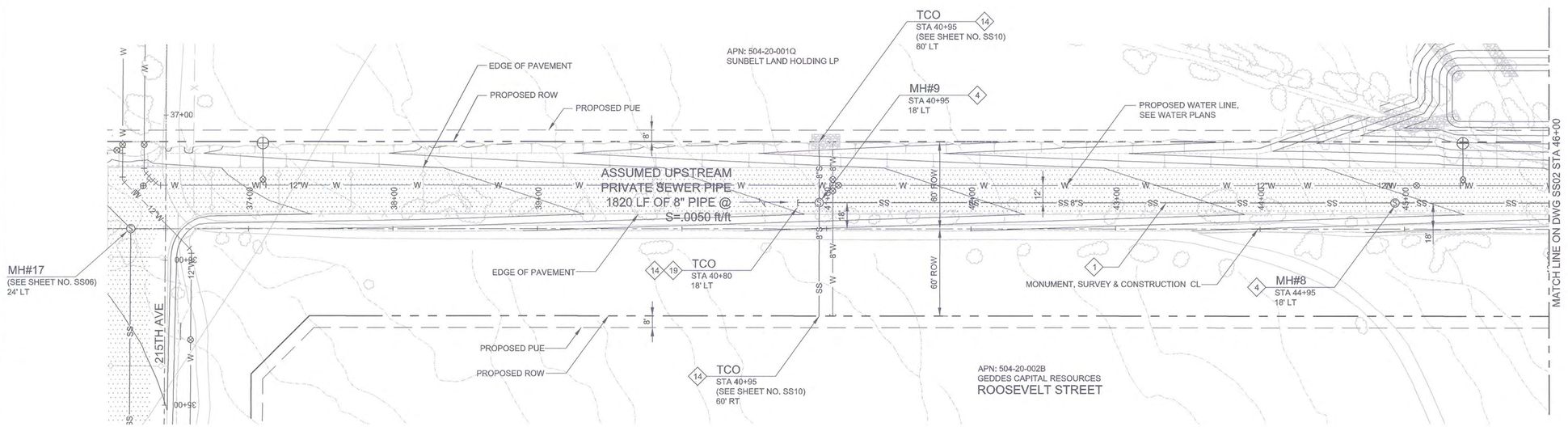
COB PLAN TRACKING # ENG-16-00003

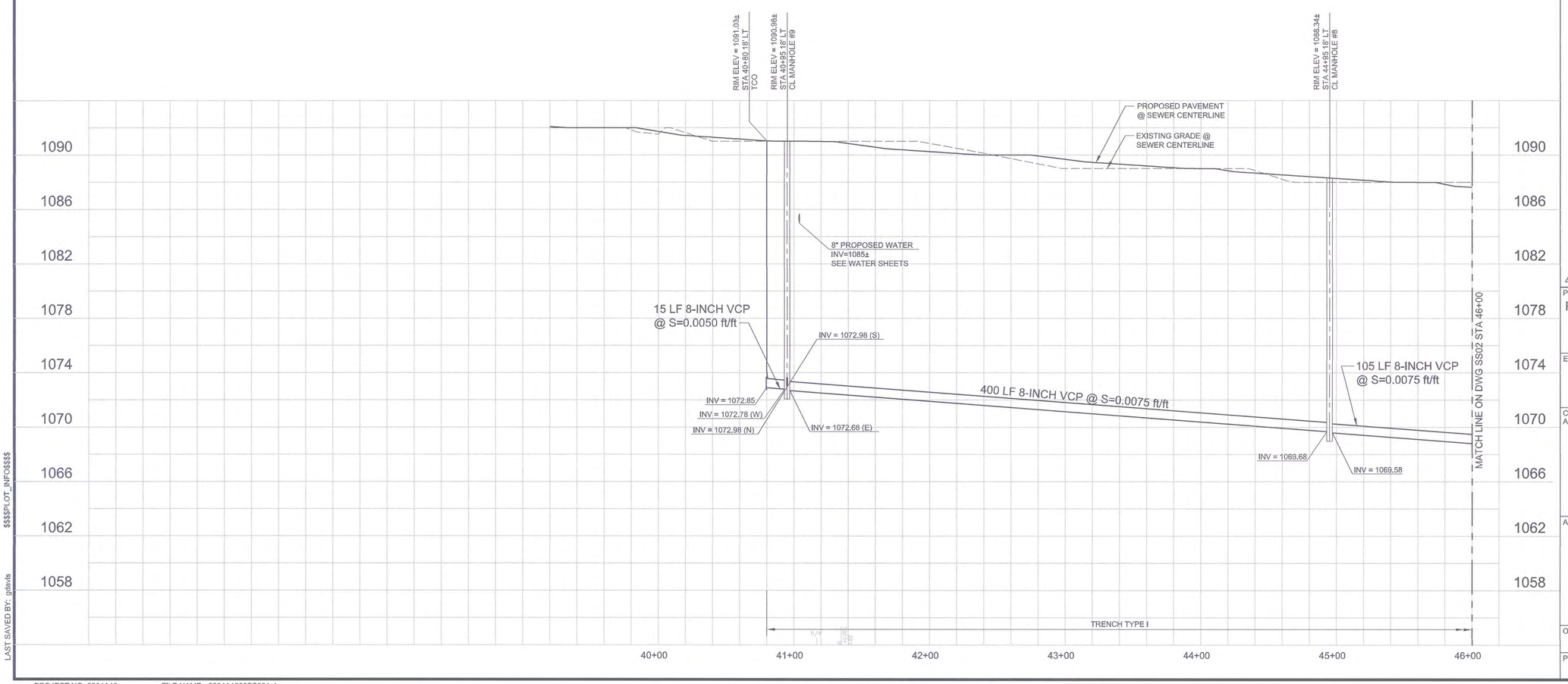
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER	SHEET NUMBER
2014-071	WT09 — 76 OF 125

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\76-215035-WT09.dwg





GENERAL NOTES:

1. TRENCH TYPE DEFINED FOR VITRIFIED CLAY PER COB STD DET 41300-2
2. ASSUMED PRIVATE SEWER UPSTREAM OF PROPOSED SEWER SHOWN HERE, IS DISCUSSED IN DETAIL IN THE SEWER REPORT.
3. ALL MANHOLES AND TESTING CLEANOUTS NOT LOCATED WITHIN PAVEMENT WOULD REQUIRE GREEN CARSONITE MARKERS

SEWER NOTES

NO.	DESC.	QTY	UNITS
1	INSTALL 8" EXTRA STRENGTH VCP SEWER LINE, BEDDING PER COB STD DET 41300-1 & 41300-2	520	LF
4	INSTALL 5' DIAMETER PRECAST CONCRETE SEWER MANHOLE WITH CAST IN PLACE CONCRETE BASE PER COB STD DET 41250 AND WITH 30" FRAME AND COVER PER COB STD DET 41260, WITH COATING REQUIREMENT PER COB STD DET 41100	2	EA
14	FURNISH AND INSTALL TESTING CLEANOUT AS PER COB STD DET 41270, SHOWN ON SS11	3	EA
19	DET 41270 CALLS FOR A METER BOX FOR THIS ADJUSTMENT AT THE SURFACE. A TRAFFIC RATED BOX WILL BE PROVIDED FOR THIS TESTING CLEANOUT	1	EA

HORZ. SCALE 0 20' 40' 80'
VERT. SCALE 0 2' 4' 8'

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

carollo

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
SEWER LINE PLAN AND PROFILE
STA 40+80 TO 46+00

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
14718
ROBERT F. BUSS
DATE SIGNED 12/11/17
ARIZONA, U.S.A.
EXPIRES 03-31-2020

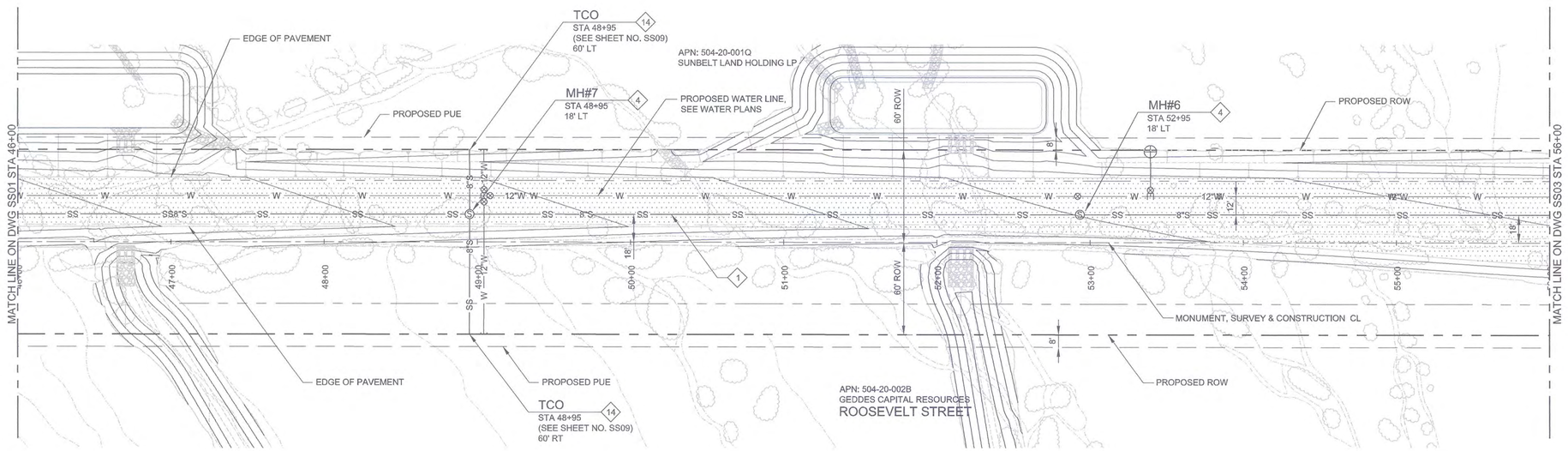
COB PLAN TRACKING # ENG-16-00003

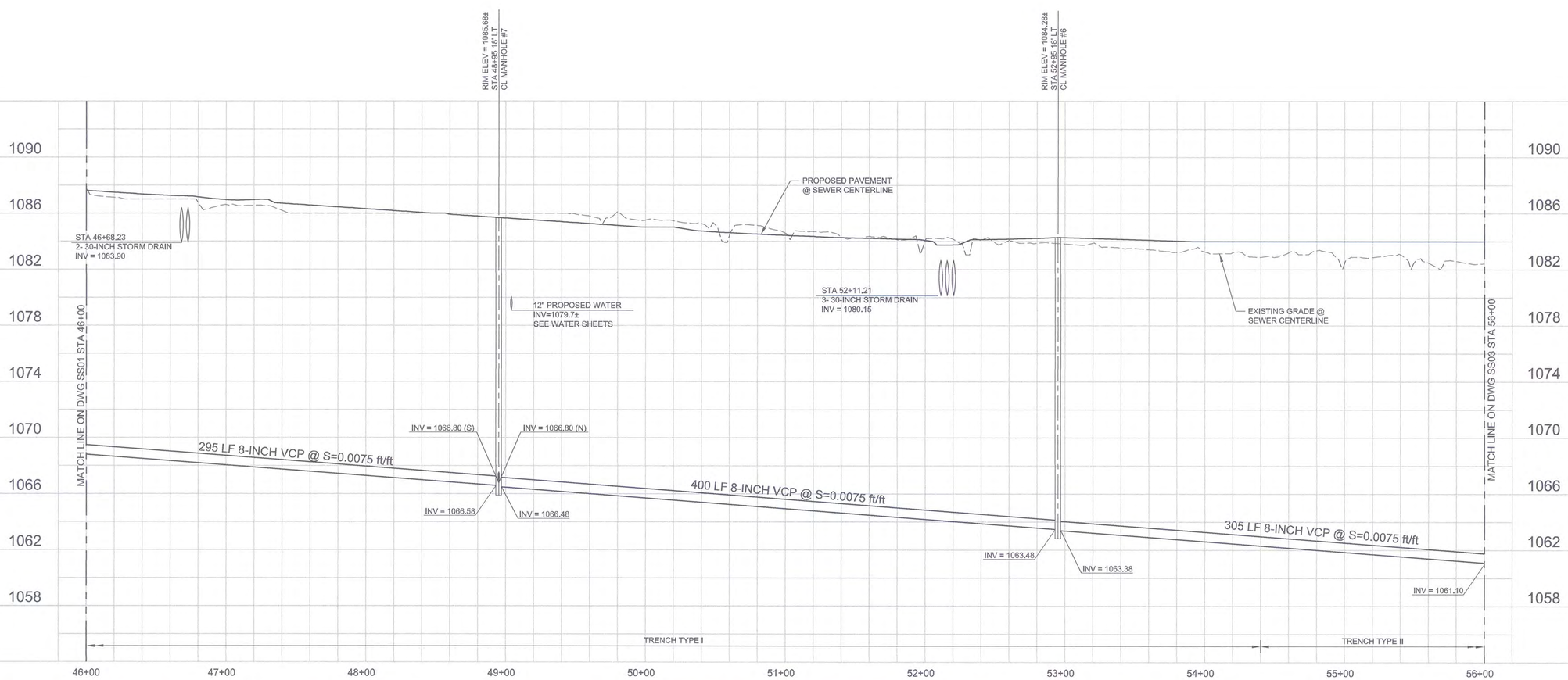
COB PERMIT #

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER SS01
77 OF 125

$$$$DATE$$$$
$$$$USER$$$$
$$$$PLOT_INFO$$$$
LAST SAVED BY: gdavis

PROJECT NO. 9984A10 FILE NAME: 9984A1000SS001.dgn





GENERAL NOTES:

1. TRENCH TYPE DEFINED FOR VITRIFIED CLAY PER COB STD DET 41300-2
2. ALL MANHOLES AND TESTING CLEANOUTS NOT LOCATED WITHIN PAVEMENT WOULD REQUIRE GREEN CARSONITE MARKERS

SEWER NOTES

NO.	DESC.	QTY	UNITS
1	INSTALL 8" EXTRA STRENGTH VCP SEWER LINE, BEDDING PER COB STD DET 41300-1 & 41300-2	1000	LF
4	INSTALL 5' DIAMETER PRECAST CONCRETE SEWER MANHOLE WITH CAST IN PLACE CONCRETE BASE PER COB STD DET 41250 AND WITH 30" FRAME AND COVER PER COB STD DET 41260, WITH COATING REQUIREMENT PER COB STD DET 41100	2	EA
14	FURNISH AND INSTALL TESTING CLEANOUT AS PER COB STD DET 41270, SHOWN ON SS11	2	EA

HORZ. SCALE 0 20' 40' 80'
VERT. SCALE 0 2' 4' 8'

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

carollo

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
SEWER LINE PLAN AND PROFILE
STA 46+00 TO 56+00

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

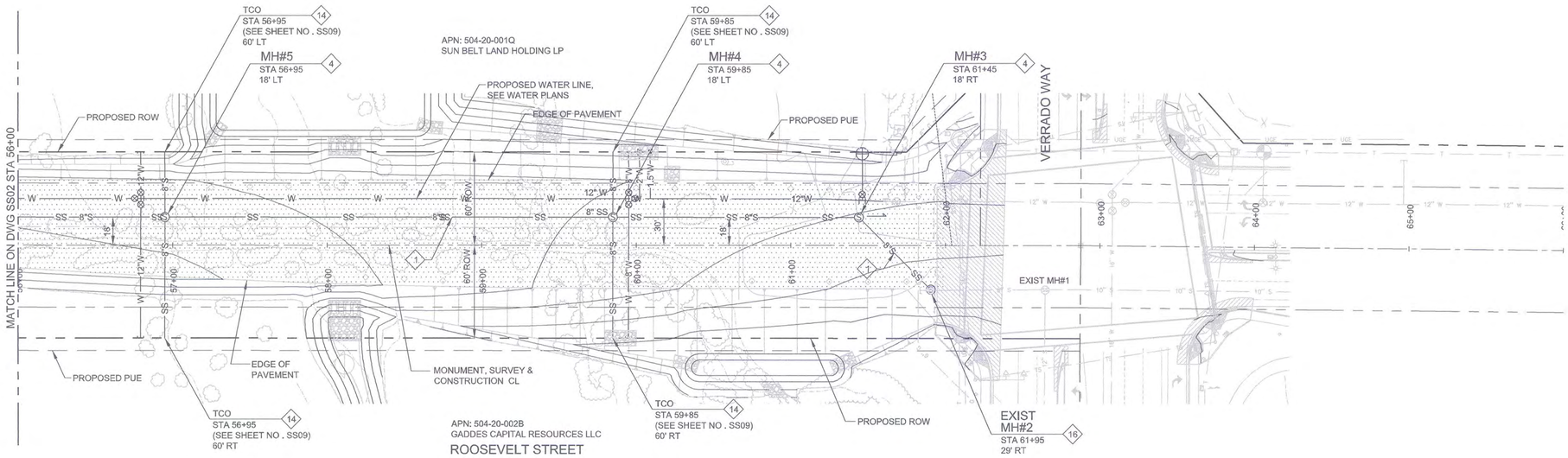
DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
14718
ROBERT F. BUSS
DATE SIGNED 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03-31-2020

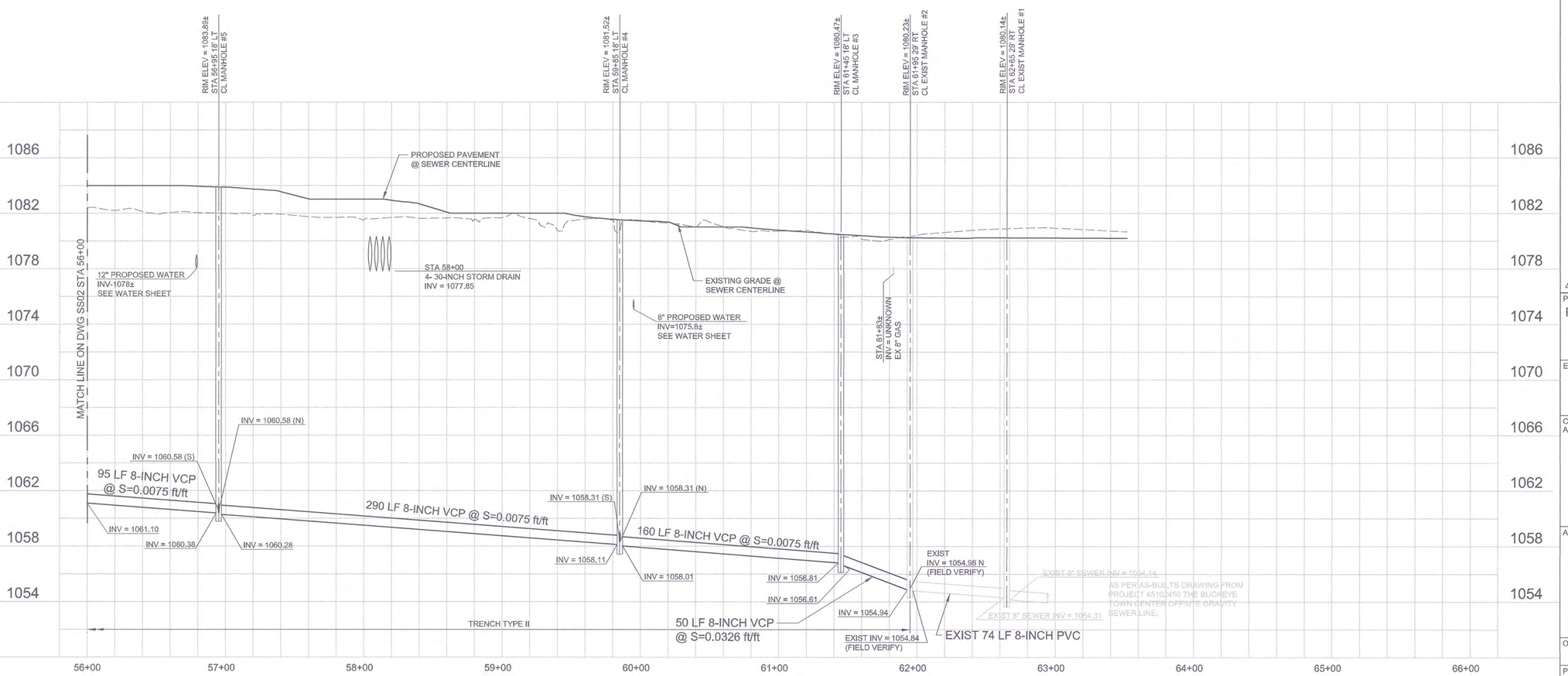
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER 2014-071	SHEET NUMBER SS02 — 78 OF 125

$$$$DATE$$$$
$$$$USER$$$$
$$$$PLOT_INFO$$$$
LAST SAVED BY: gdavis

PROJECT NO. 9984A10 FILE NAME: 9984A1000SS002.dgn





GENERAL NOTES:

1. TRENCH TYPE DEFINED FOR VITRIFIED CLAY PER COB STD DET 41300-2
2. ALL MANHOLES AND TESTING CLEANOUTS NOT LOCATED WITHIN PAVEMENT WOULD REQUIRE GREEN CARSONITE MARKERS

SEWER NOTES

NO.	DESC.	QTY	UNITS
1	INSTALL 8" EXTRA STRENGTH VCP SEWER LINE, BEDDING PER COB STD DET 41300-1 & 41300-2	595	LF
4	INSTALL 5' DIAMETER PRECAST CONCRETE SEWER MANHOLE WITH CAST IN PLACE CONCRETE BASE PER COB STD DET 41250 AND WITH 30" FRAME AND COVER PER COB STD DET 41260, WITH COATING REQUIREMENT PER COB STD DET 41100	3	EA
5	REMOVE PLUG AND TIE INTO EXISTING SEWER MANHOLE. CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF STUB. REMOVE EXISTING STUB OUT	1	EA
14	FURNISH AND INSTALL TESTING CLEANOUT AS PER COB STD DET 41270, SHOWN ON SS11	4	EA
16	CONTRACTOR TO RECONSTRUCT MANHOLE BASE TO ALLOW FLOW AS SHOWN IN PLAN VIEW: MANHOLE TO BE RE-VACUUMED TESTED, COATED AND SPARK TESTED	1	EA

HORZ. SCALE 0 20' 40' 80'

VERT. SCALE 0 2' 4' 8'

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

carollo

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
SEWER LINE PLAN AND PROFILE
STA 56+00 TO STA 62+65

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
14718
ROBERT F. BUSS
DATE SIGNED 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03-31-2020

SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE 12-27-2016

LATEST REVISION DATE 12-11-17

PROJECT NUMBER 2014-071

SHEET NUMBER SS03

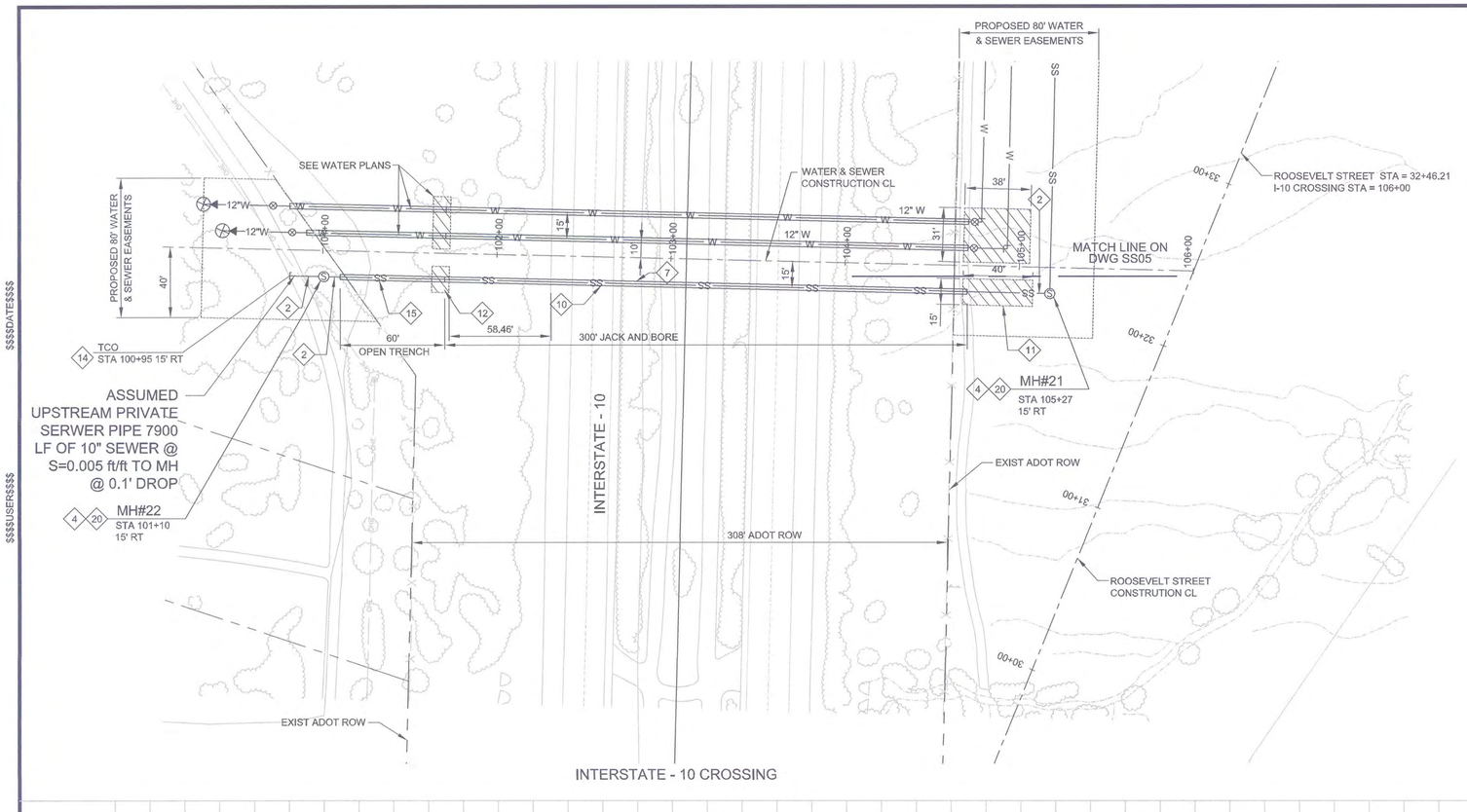
$$$$DATE$$$$

$$$$USER$$$$

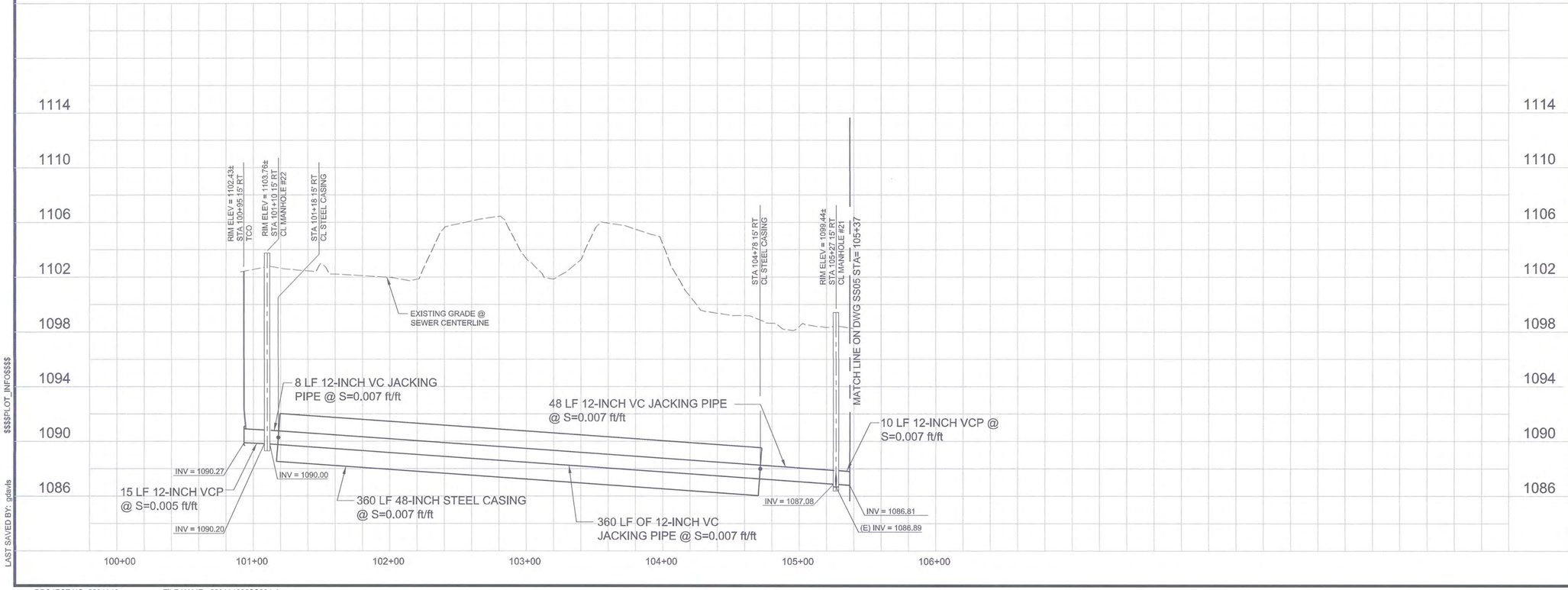
$$$$PLOT_INFO$$$$

LAST SAVED BY: gdavis

PROJECT NO. 9984A10 FILE NAME: 9984A1000SS003.dgn



INTERSTATE - 10 CROSSING



GENERAL NOTES:

1. TRENCH TYPE DEFINED FOR VITRIFIED CLAY PER COB STD DET 41300-2.
2. BORE AND RECEIVING PIT DIMENSIONS ARE APPROXIMATE AND DO NOT INCLUDE BENCHING OR SHORING. CONTRACTOR IS RESPONSIBLE TO DETERMINE EXACT SIZE OF PIT REQUIRED.
3. WARNING: OVERHEAD POWER LINES WITHIN PROJECT LIMITS.
4. ALL MANHOLES AND TESTING CLEANOUTS NOT LOCATED WITHIN PAVEMENT WOULD REQUIRE GREEN CARSONITE MARKERS

SEWER NOTES

NO.	DESC.	QTY	UNITS
2	INSTALL 12" EXTRA STRENGTH VCP SEWER LINE, BEDDING PER COB STD DET 41300-1 & 41300-2	25	LF
4	INSTALL 5' DIAMETER PRECAST CONCRETE SEWER MANHOLE WITH CAST IN PLACE CONCRETE BASE PER COB STD DET 41250 AND WITH 30" FRAME AND COVER PER COB STD DET 41260, WITH COATING REQUIREMENT PER COB STD DET 41100	2	EA
7	INSTALL 48" STEEL CASING JACK AND BORE AS PER MAG SPEC 602.2 AND COB STD DET 41290, SHOWN ON SHEET SS11	360	LF
10	INSTALL 12" VITRIFIED CLAY JACKING PIPE SEWER LINE	417	LF
11	TEMPORARY HORIZONTAL BORE PIT 16' x 38'	1	EA
12	TEMPORARY HORIZONTAL RECEIVING PIT 12' x 25'	1	EA
14	FURNISH AND INSTALL TESTING CLEANOUT AS PER COB STD DET 41270, SHOWN ON SS11	1	EA
15	INSTALL OPEN TRENCH 48" STEEL CASING AS PER MAG SPEC 602.2 AND COB STD DET 41291	60	LF
20	PER DET 41100-11, NOTE 12, MANHOLE FRAME SHALL BE SET 12-INCHES ABOVE FINISH GRADE	2	EA

HORZ. SCALE 0 20' 40' 80'

VERT. SCALE 0 2' 4' 8'

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

carollo

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
SEWER LINE PLAN AND PROFILE
STA 100+95 TO 105+27

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

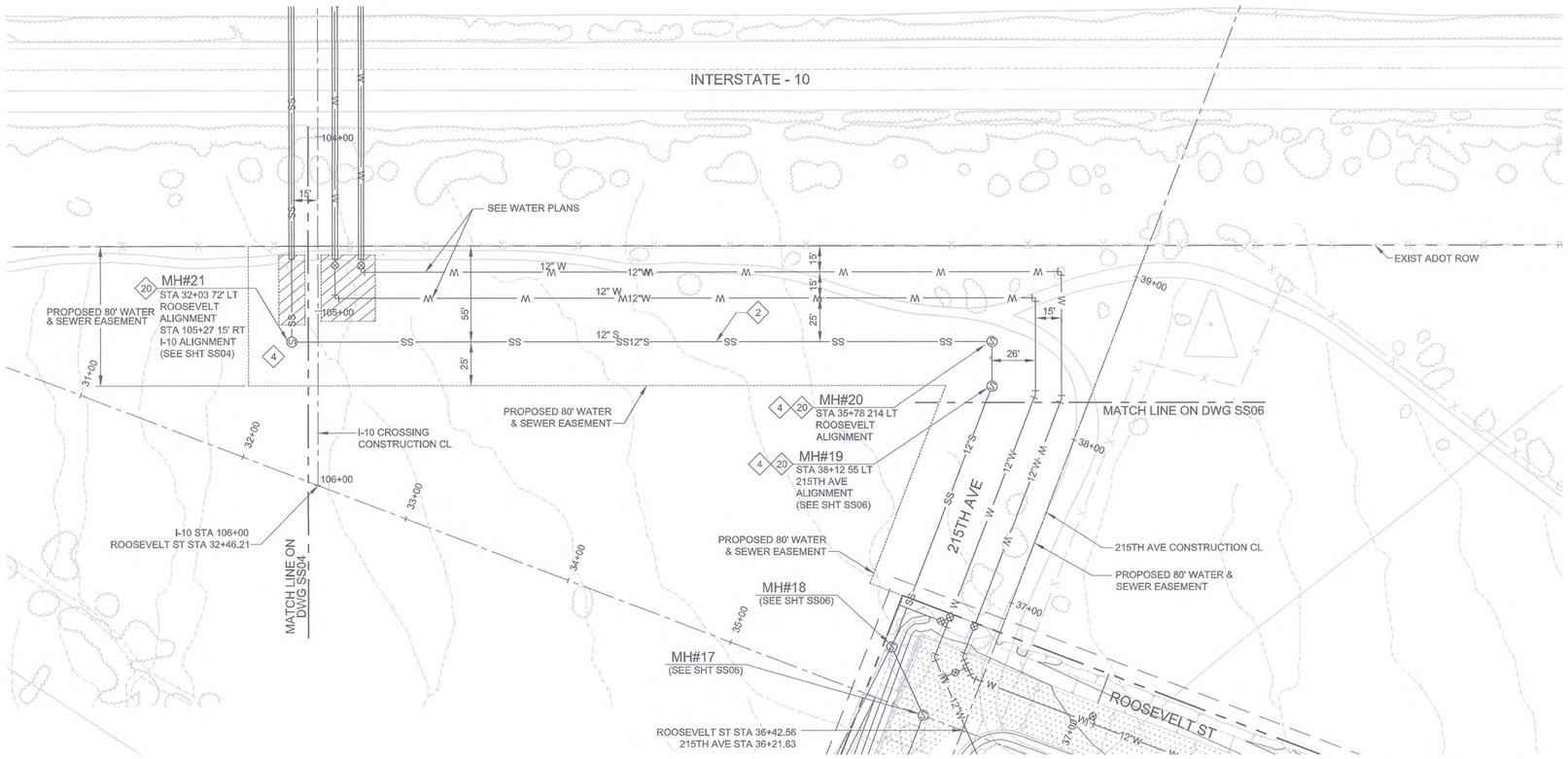
AS-BUILT SEAL

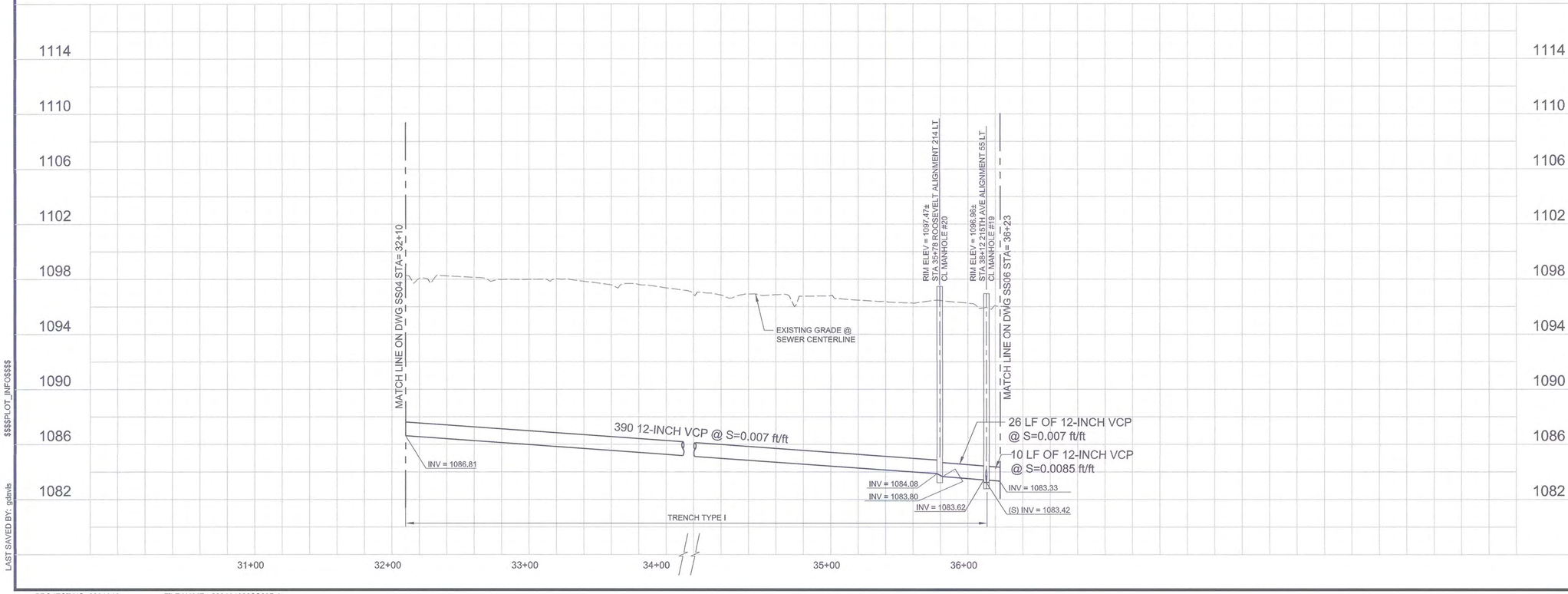
DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
14718
ROBERT F. BUSS
DATE SIGNED 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03-31-2020

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER SS04
80 OF 125
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

$$$$DATE$$$$
$$$$USER$$$$
$$$$PLOT_INFO$$$$
LAST SAVED BY: gdavis

PROJECT NO. 9984A10 FILE NAME: 9984A1000SS004.dgn





GENERAL NOTES:

1. TRENCH TYPE DEFINED FOR VITRIFIED CLAY PER COB STD DET 41300-2.
2. BROKEN LINES ON PROFILE COMPENSATE FOR THE APPARENT DIFFERENCE BETWEEN PLAN AND PROFILE. LENGTH OF 12-INCH VCP BETWEEN MH#21 AND MH#20 EQUALS 400 LF.
3. ALL MANHOLES AND TESTING CLEANOUTS NOT LOCATED WITHIN PAVEMENT WOULD REQUIRE GREEN CARSONITE MARKERS

SEWER NOTES

NO.	DESC.	QTY	UNITS
2	INSTALL 12" VCP EXTRA STRENGTH SEWER LINE, BEDDING PER COB STD DET 41300-1 & 41300-2	426	LF
4	INSTALL 5' DIAMETER PRECAST CONCRETE SEWER MANHOLE WITH CAST IN PLACE CONCRETE BASE PER COB STD DET 41250 AND WITH 30" FRAME AND COVER PER COB STD DET 41260, WITH COATING REQUIREMENT PER COB STD DET 41100	2	EA
20	PER DET 41100-11, NOTE 12, MANHOLE FRAME SHALL BE SET 12-INCHES ABOVE FINISH GRADE	2	EA

HORZ. SCALE 0 20' 40' 80'
VERT. SCALE 0 2' 4' 8'

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

carollo

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
SEWER LINE PLAN AND PROFILE
STA 32+10 TO 38+23

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
14718
ROBERT F. BUSS
DATE SIGNED 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03-31-2020

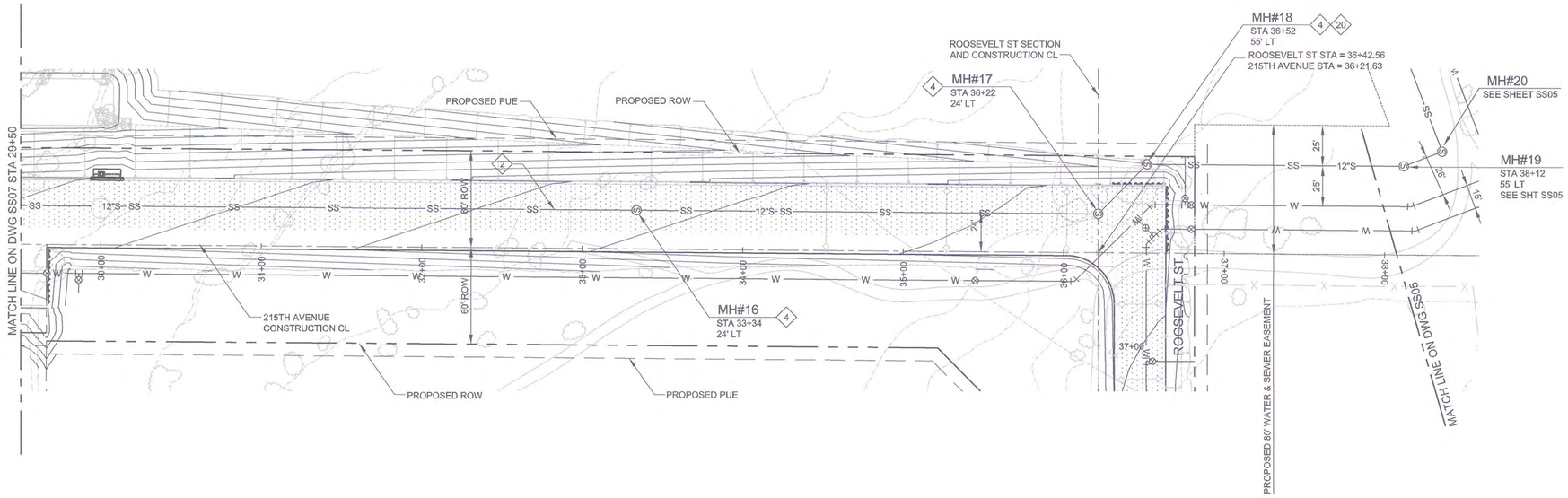
COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

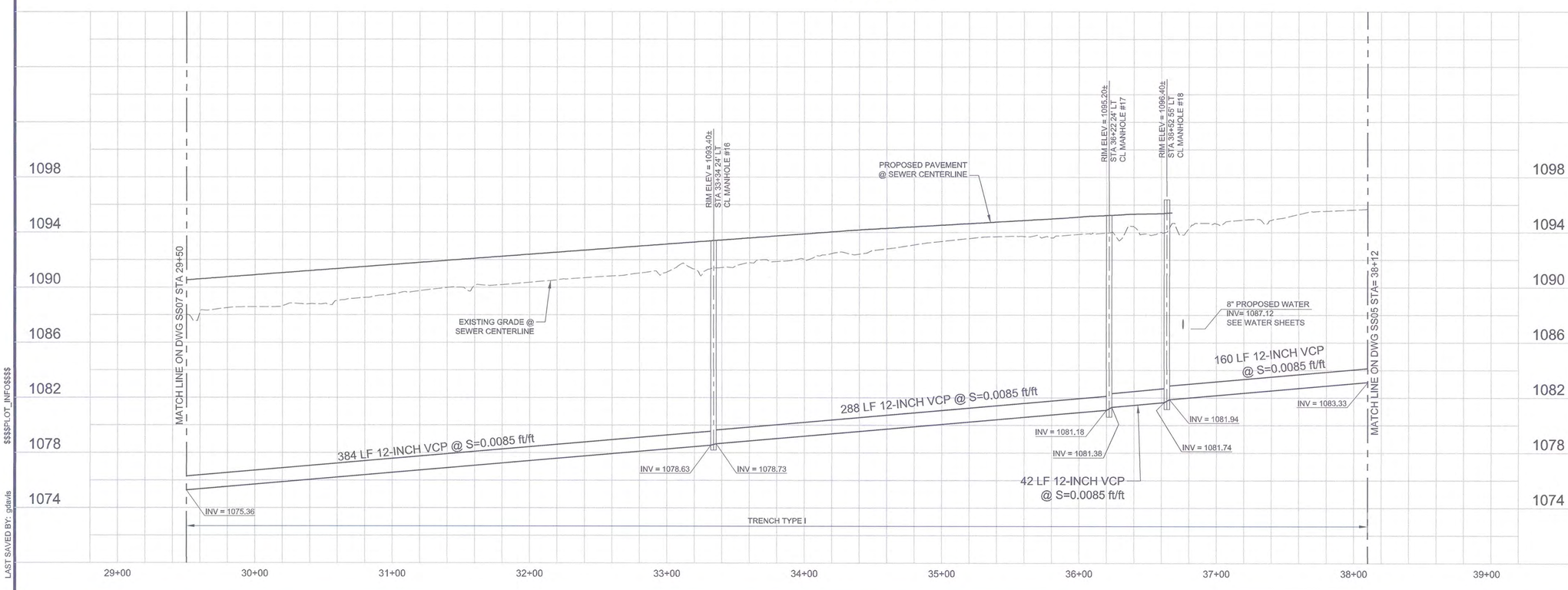
ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER SS05
81 OF 125

$$$$DATE$$$$
$$$$USER$$$$
$$$$PLOT_INFO$$$$
LAST SAVED BY: gdavis

PROJECT NO. 9984A10 FILE NAME: 9984A1000SS005.dgn



215TH AVENUE



GENERAL NOTES:

1. TRENCH TYPE DEFINED FOR VITRIFIED CLAY PER COB STD DET 41300-2
2. ALL MANHOLES AND TESTING CLEANOUTS NOT LOCATED WITHIN PAVEMENT WOULD REQUIRE GREEN CARSONITE MARKERS

SEWER NOTES

NO.	DESC.	QTY	UNITS
2	INSTALL 12" EXTRA STRENGTH VCP SEWER LINE, BEDDING PER COB STD DET 41300-1 & 41300-2	862	LF
4	INSTALL 5' DIAMETER PRECAST CONCRETE SEWER MANHOLE WITH CAST IN PLACE CONCRETE BASE PER COB STD DET 41250 AND WITH 30" FRAME AND COVER PER COB STD DET 41260, WITH COATING REQUIREMENT PER COB STD DET 41100	3	EA
20	PER DET 41100-11, NOTE 12, MANHOLE FRAME SHALL BE SET 12-INCHES ABOVE FINISH GRADE	1	EA

HORZ. SCALE 0 20' 40' 80'

VERT. SCALE 0 2' 4' 8'

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

carollo

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
SEWER LINE PLAN AND PROFILE
STA 29+50 TO 38+12

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
14718
ROBERT F. BUSS
DATE SIGNED 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03-31-2020

SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

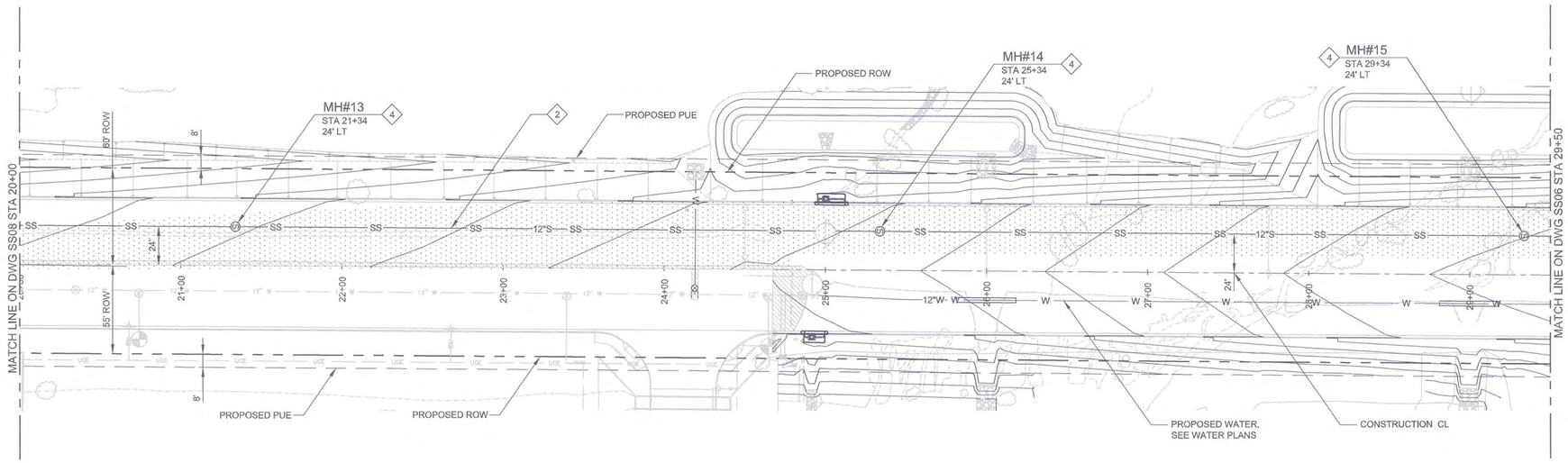
COB PERMIT #

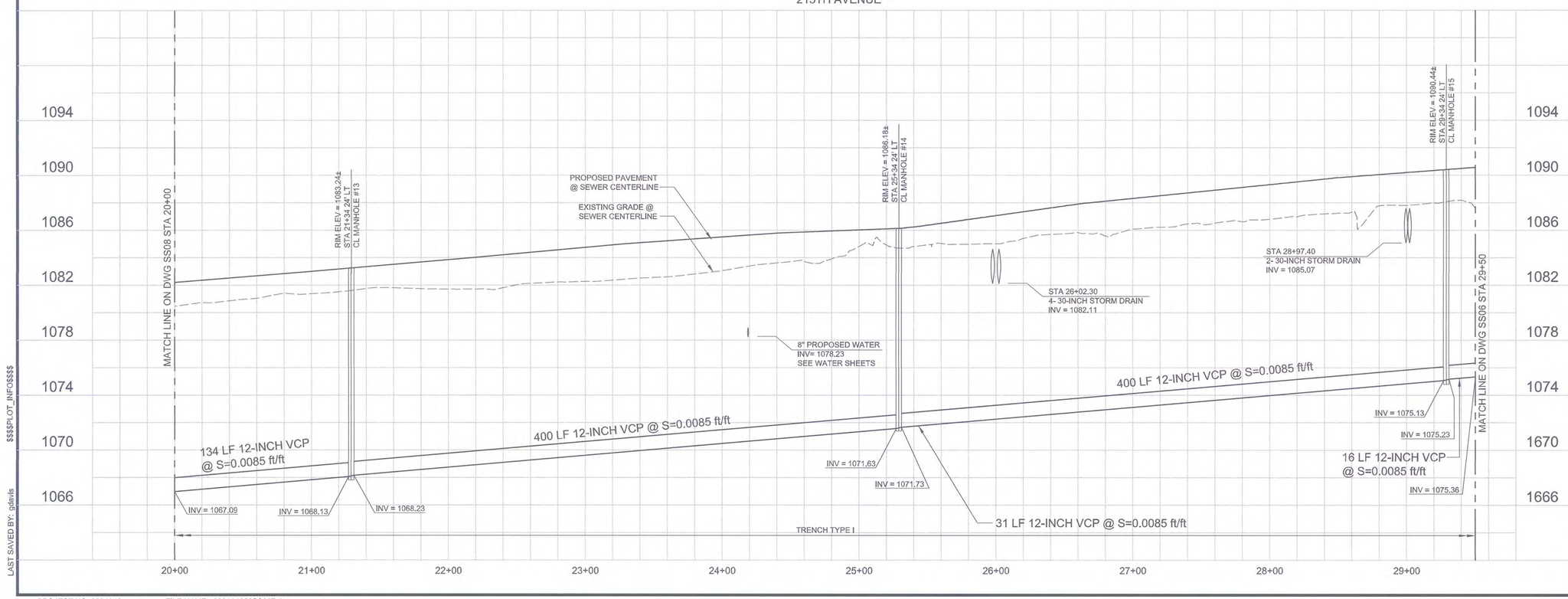
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER
2014-071	SS06 82 OF 125

$$$$DATE$$$$ $$$$USER$$$$ $$$$PLOT_INFO$$$$ LAST SAVED BY: gdavis

PROJECT NO. 9984A10 FILE NAME: 9984A1000SS006.dgn





GENERAL NOTES:

1. TRENCH TYPE DEFINED FOR VITRIFIED CLAY PER COB STD DET 41300-2
2. ALL MANHOLES AND TESTING CLEANOUTS NOT LOCATED WITHIN PAVEMENT WOULD REQUIRE GREEN CARSONITE MARKERS

SEWER NOTES

NO.	DESC.	QTY	UNITS
2	INSTALL 12" EXTRA STRENGTH VCP SEWER LINE, BEDDING PER COB STD DET 41300-1 & 41300-2	950	LF
4	INSTALL 5' DIAMETER PRECAST CONCRETE SEWER MANHOLE WITH CAST IN PLACE CONCRETE BASE PER COB STD DET 41250 AND WITH 30" FRAME AND COVER PER COB STD DET 41260, WITH COATING REQUIREMENT PER COB STD DET 41100	3	EA

HORZ. SCALE
0 20' 40' 80'
VERT. SCALE
0 2' 4' 8'

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

carollo

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
SEWER LINE PLAN AND PROFILE
STA 20+00 TO 29+50

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

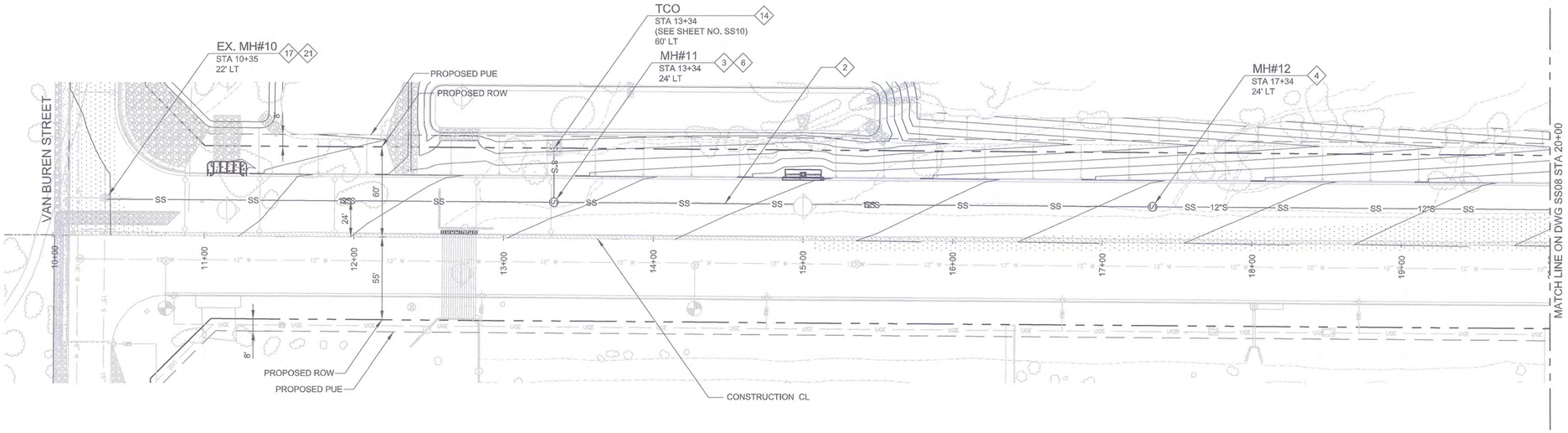
DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
14718
ROBERT F. BUSS
DATE SIGNED 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03-31-2020

COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

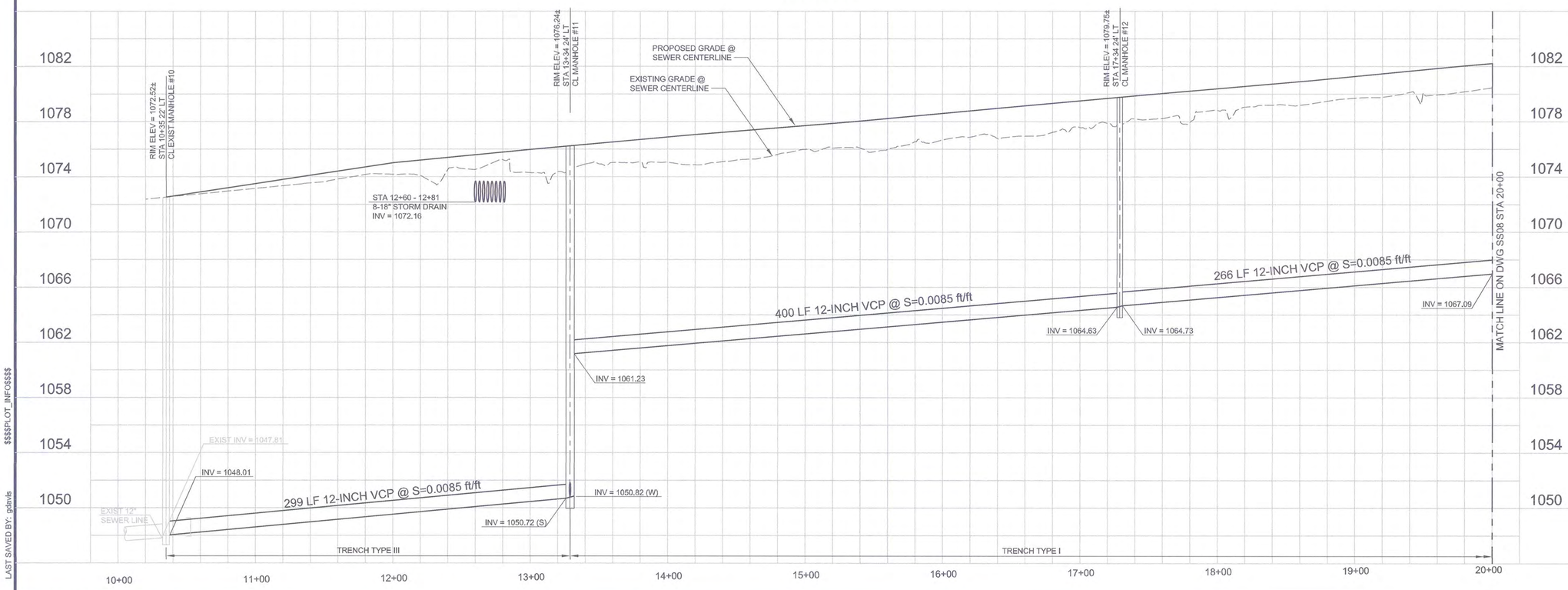
ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER SS07
83 OF 125

$$$$DATE$$$$
$$$$USER$$$$
$$$$PLOT_INFO$$$$
LAST SAVED BY: gdavis

PROJECT NO. 9984A10 FILE NAME: 9984A1000SS007.dgn



215TH AVENUE



GENERAL NOTES:

1. TRENCH TYPE DEFINED FOR VITRIFIED CLAY PER COB STD DET 41300-2
2. ALL MANHOLES AND TESTING CLEANOUTS NOT LOCATED WITHIN PAVEMENT WOULD REQUIRE GREEN CARSONITE MARKERS

SEWER NOTES

NO.	DESC.	QTY	UNITS
2	INSTALL 12" EXTRA STRENGTH VCP SEWER LINE, BEDDING PER COB STD DET 41300-1 & 41300-2	965	LF
3	INSTALL 6' DIAMETER PRECAST CONCRETE SEWER MANHOLE PER MAG STD DET 420; WITH CAST IN PLACE CONCRETE BASE PER COB STD DET 41253 AND WITH 30" FRAME AND COVER PER COB STD DET 41260	1	EA
4	INSTALL 5' DIAMETER PRECAST CONCRETE SEWER MANHOLE WITH CAST IN PLACE CONCRETE BASE PER COB STD DET 41250 AND WITH 30" FRAME AND COVER PER COB STD DET 41260, WITH COATING REQUIREMENT PER COB STD DET 41100	1	EA
6	INSTALL SEWER INSIDE DROP CONNECTION PER COB STD DET 41255, SHOWN ON SHEET SS18	1	EA
14	FURNISH AND INSTALL TESTING CLEANOUT AS PER COB STD DET 41290, SHOWN ON SS11	1	EA
17	CONNECT NEW 12-INCH TO EXISTING 12-INCH TESTING CLEANOUT. CONTRACTOR TO VERIFY	1	EA
21	CONTRACTOR TO REMOVE STUBOUT OPENING. MANHOLE TO BE RE-VACUUMED TESTED, COATED AND SPARK TESTED	1	EA

HORZ. SCALE 0 20' 40' 80'

VERT. SCALE 0 2' 4' 8'

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

carollo

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
SEWER LINE PLAN AND PROFILE
STA 10+35 TO 20+00

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO. 14718
ROBERT F. BUSS
DATE SIGNED 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03-31-2020

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE 12-27-2016

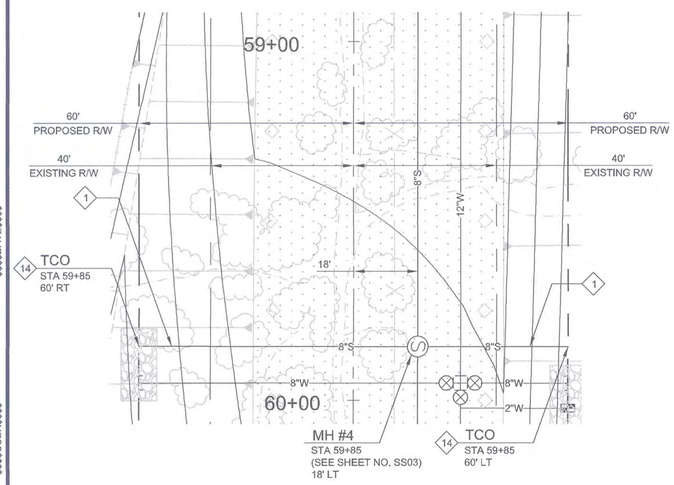
LATEST REVISION DATE 12-11-17

PROJECT NUMBER 2014-071

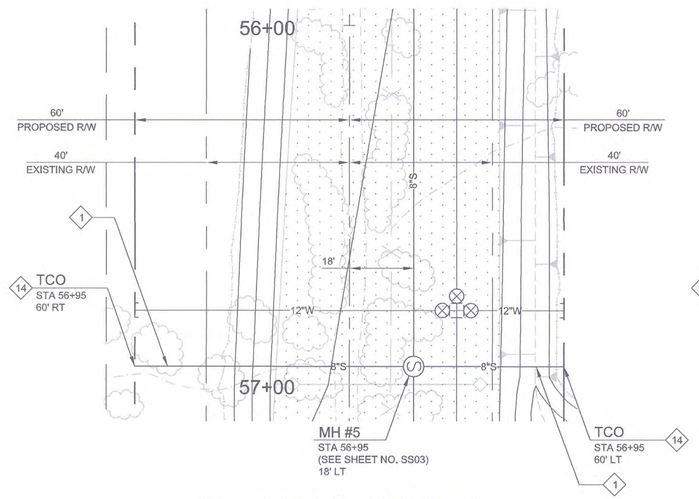
SHEET NUMBER SS08

$$$$DATE$$$$ $$$$USER$$$$ $$$$PLOT_INFO$$$$ LAST SAVED BY: gdavis

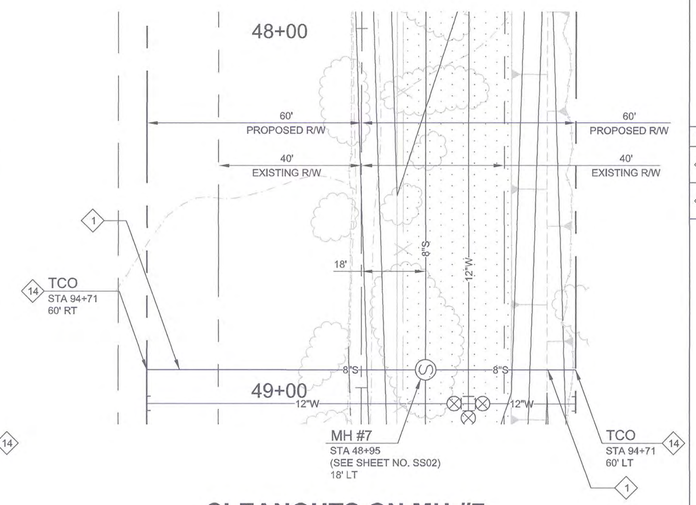
PROJECT NO. 9984A10 FILE NAME: 9984A1000SS008.dgn



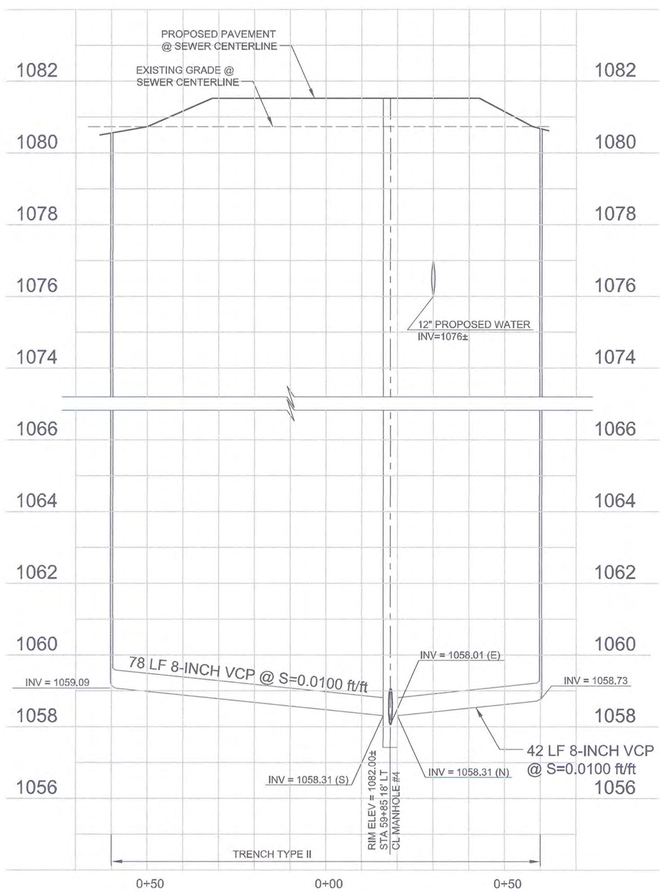
CLEANOUTS ON MH #4

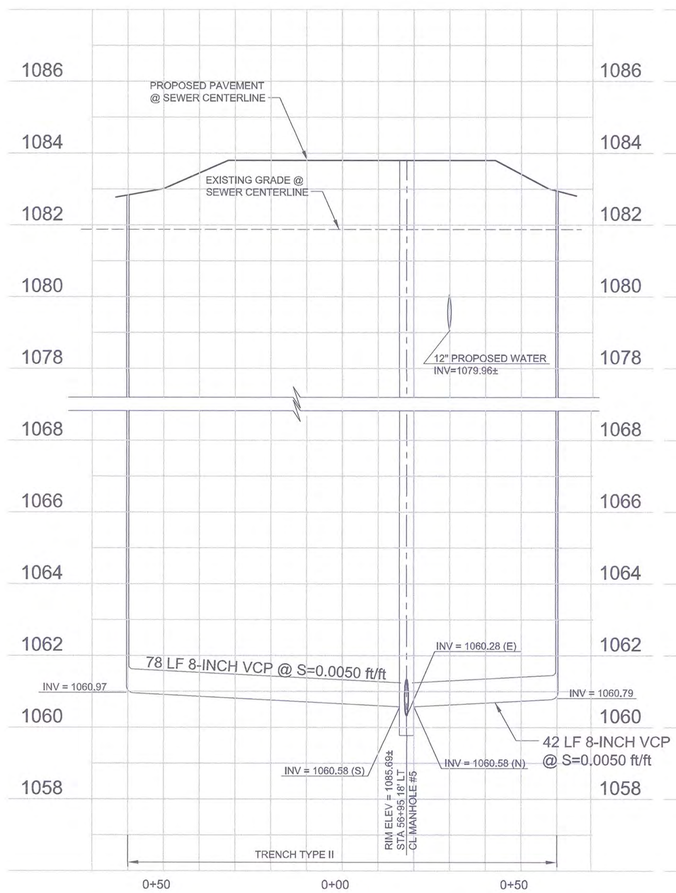


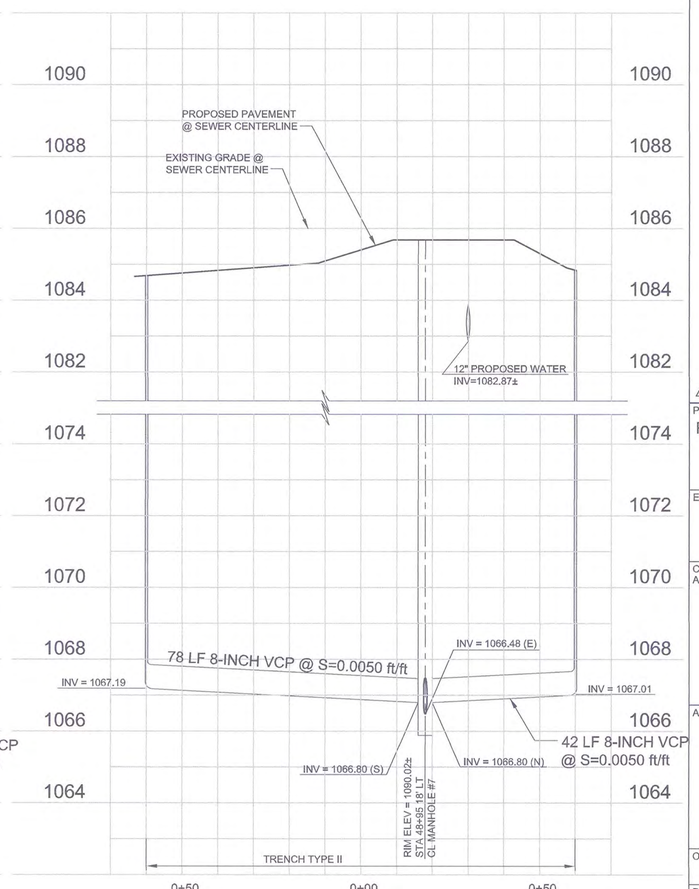
CLEANOUTS ON MH #5



CLEANOUTS ON MH #7







GENERAL NOTES:

1. TRENCH TYPE DEFINED FOR VITRIFIED CLAY PER COB STD DET 41300-2.
2. QUANTITIES OF TESTING CLEANOUTS ARE ACCOUNTED FOR ON THE RESPECTIVE PLAN AND PROFILE SHEETS.
3. CONTRACTOR TO VERIFY WATER LINE INVERTS.
4. ALL MANHOLES AND TESTING CLEANOUTS NOT LOCATED WITHIN PAVEMENT WOULD REQUIRE GREEN CARSONITE MARKERS

SEWER NOTES

NO.	DESC.	QTY	UNITS
1	INSTALL 8" VCP SEWER LINE, BEDDING PER COB STD DET 41300-1 & 41300-2	360	LF
14	FURNISH AND INSTALL TESTING CLEANOUT AS PER COB STD DET 41270, SHOWN ON SS11	6	EA

HORZ. SCALE 0 10' 20' 40'

VERT. SCALE 0 1' 2' 4'

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

carollo

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
SEWER CLEANOUTS
MH #4, MH #5 AND MH #7

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates 602-263-1177 WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
Registered Professional Engineer (Civil) 14718 ROBERT F. BUSS Date Signed 12/11/2017 ARIZONA, U.S.A.
EXPIRES 03-31-2020

ORIGINAL PLAN DATE 12-27-2016

LATEST REVISION DATE 12-11-17

PROJECT NUMBER 2014-071

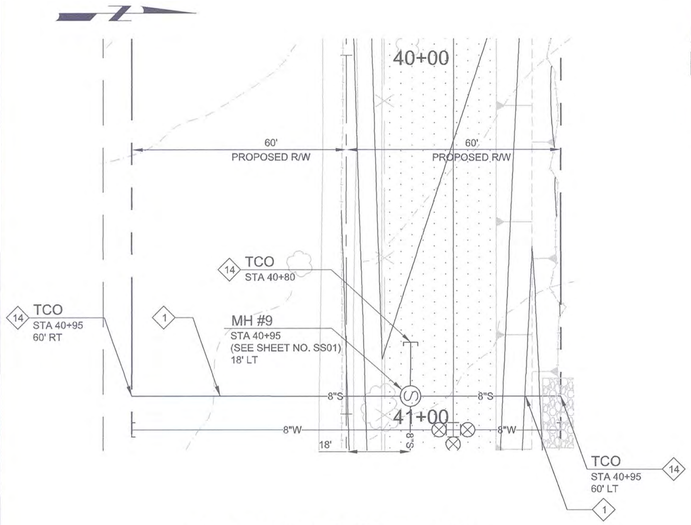
SHEET NUMBER SS09 85 OF 125

COB PLAN TRACKING # ENG-16-00003

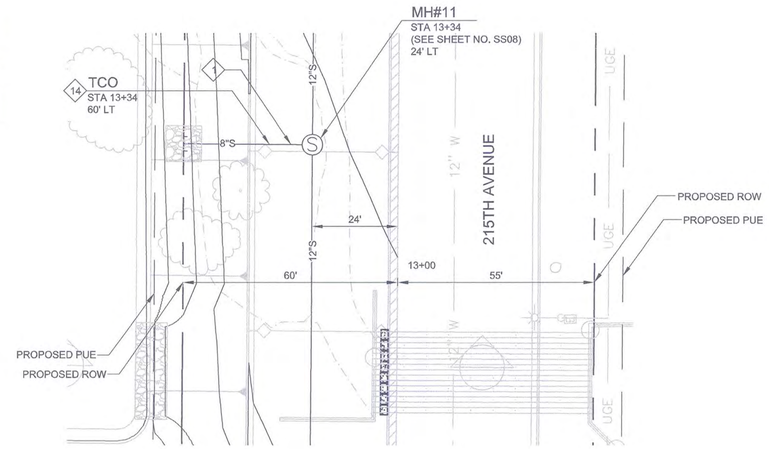
COB PERMIT #

$$$$DATE$$$$ $$$$USER$$$$ $$$$PLOT_INFO$$$$ LAST SAVED BY: gdavis

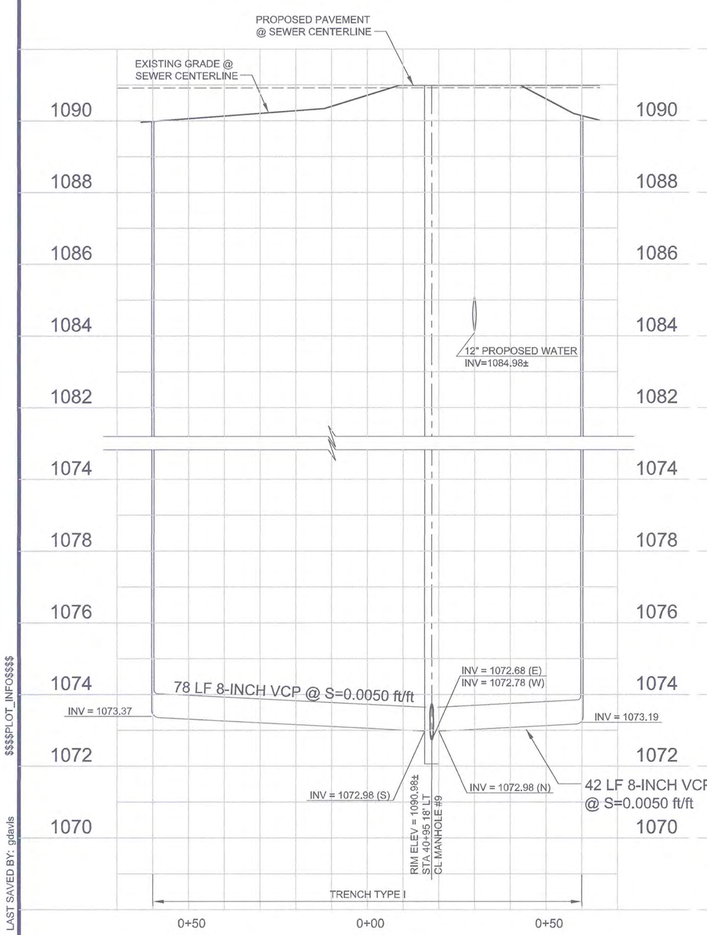
PROJECT NO. 9984A10 FILE NAME: 9984A1000SS009.dgn

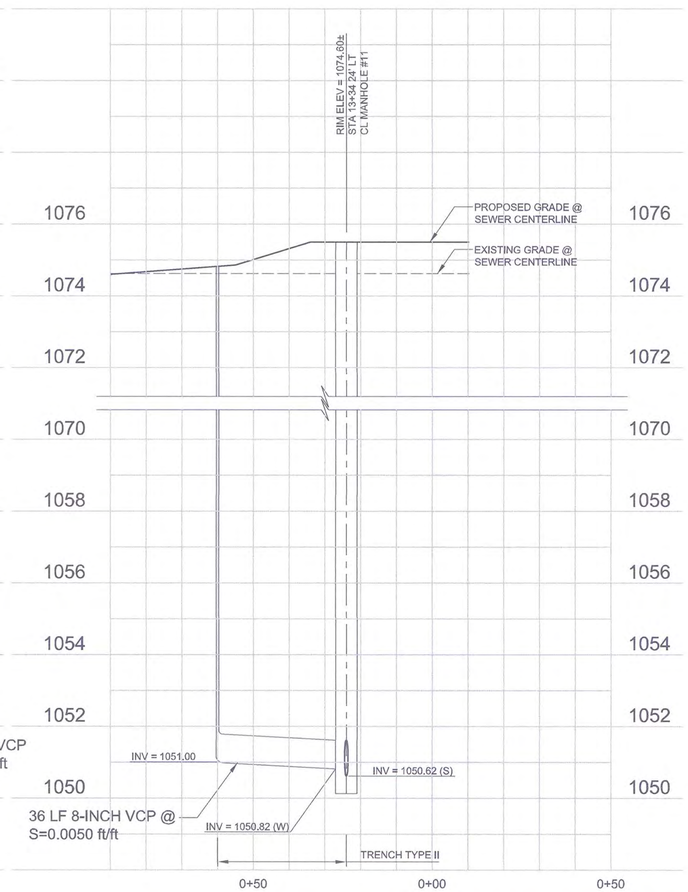


CLEANOUTS ON MH #9



CLEANOUTS ON MH #11





GENERAL NOTES:

1. TRENCH TYPE DEFINED FOR VITRIFIED CLAY PER COB STD DET 41300-2.
2. QUANTITIES OF TESTING CLEANOUTS ARE ACCOUNTED FOR ON THE RESPECTIVE PLAN AND PROFILE SHEETS.
3. CONTRACTOR TO VERIFY WATER LINE INVERTS.
4. ALL MANHOLES AND TESTING CLEANOUTS NOT LOCATED WITHIN PAVEMENT WOULD REQUIRE GREEN CARSONITE MARKERS

SEWER NOTES

NO.	DESC.	QTY	UNITS
1	INSTALL 8" VCP SEWER LINE, BEDDING PER COB STD DET 41300-1 & 41300-2	156	LF
14	FURNISH AND INSTALL TESTING CLEANOUT AS PER COB STD DET 41270, SHOWN ON SS11	4	EA

HORZ. SCALE 0 10' 20' 40'

VERT. SCALE 0 1' 2' 4'

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

carollo

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
SEWER CLEANOUTS
MH #9 AND MH #11

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
14718
ROBERT F. BUSS
DATE SIGNED 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03-31-2020

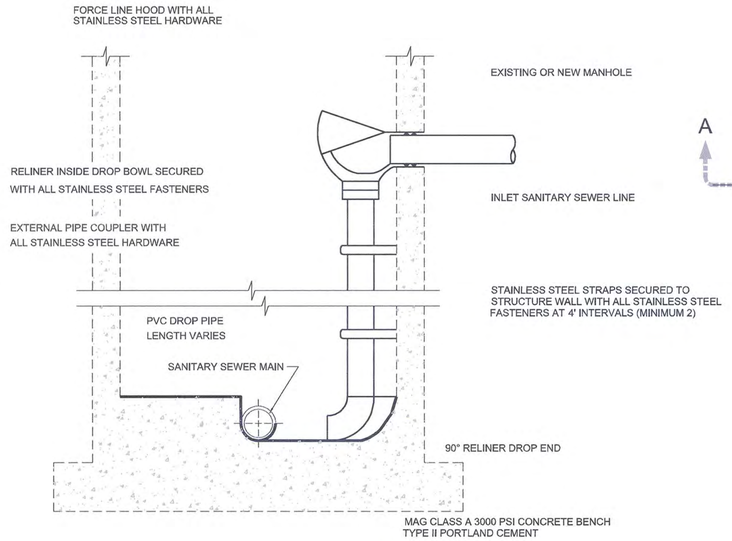
COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

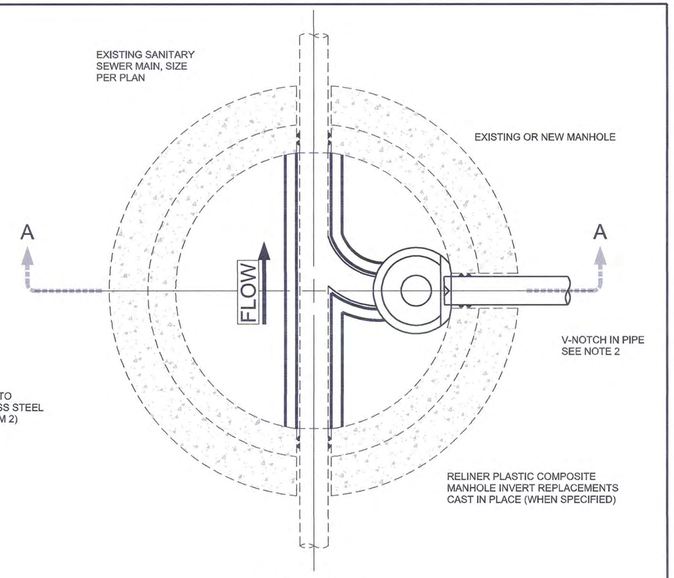
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER 2014-071	SHEET NUMBER SS10 — 86 OF 125

$$$$DATE$$$$ $$$$USER$$$$ $$$$PLOT_INFO$$$$ LAST SAVED BY: gdavis

PROJECT NO. 9984A10 FILE NAME: 9984A1000SS010.dgn



SECTION A-A
NOT TO SCALE



PLAN VIEW

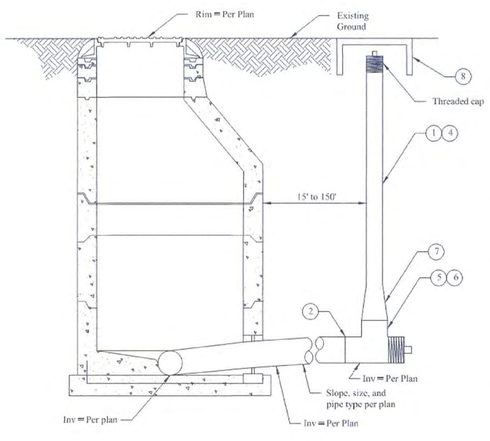
INSIDE SEWER DROP DETAIL

NOT TO SCALE

NOTES

1. CORED IN PLACE DROP CONNECTION SHALL UTILIZE KOR-N-SAL I-WEDGE S-106 SERIES KORBAND FLEXIBLE PIPE TO MANHOLE CONNECTOR OR APPROVED EQUAL WITH ALL STAINLESS STEEL HARDWARE.
2. INFLUENT LINE SHALL BE V-CUT AT THE FLOW LINE AND SMOOTH EDGE TO CONCENTRATE FLOW TO DROP BOWL / PIPE. EXTEND INFLUENT PIPE 3-5 INCHES INSIDE BOWL.
3. ALL FERROUS MATERIAL SHALL BE 316 STAINLESS STEEL.

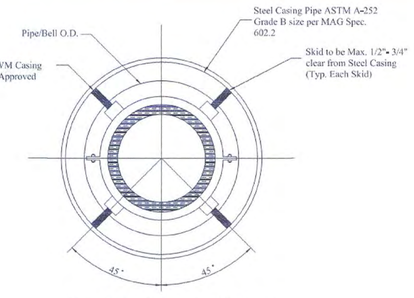
XXX XX	BUCKEYE, AZ	City of Buckeye Standard Details	SEWER INSIDE DROP MANHOLE DETAIL	Revised: 01-01-01	Detail: 41255



GENERAL NOTES

1. Temporary vertical pipe shall be 8" PVC SDR35.
2. Flexible couplings shall be used at all VCP to PVC transitions.
3. Pipe backfill shall be per vitrified clay pipe trench detail 41300.
4. The temporary vertical pipe shall be plumb.
5. "T" shall be removed when sewer is extended.
6. "T" to be clay or PVC with a permanent cap/plug on the end.
7. "T" shall be same size as main. Reduce to 8" vertically above the "T".
8. Install TOB approved meter box marked "Sewer."

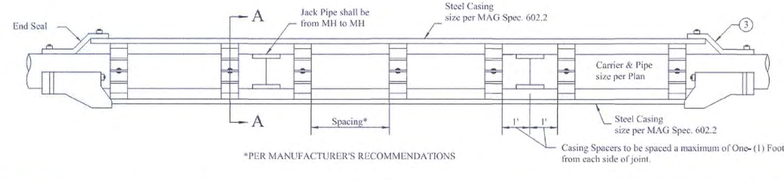
41 270	Town of Buckeye Standard Details	TESTING CLEANOUT	Revised: 03-20-12	Detail No. 41270



CASING SPACER DETAIL
SECTION A-A

GENERAL NOTES

1. Installation to be in accordance with Manufacturer's Specifications.
2. Safety: Equipment Certification for installation of Casing / Carrier Pipe.
3. End seal to provide a water tight connection shall be approved by the TOB.
4. APS or PWM injected molded Polyethylene Spacers, or approved equal.
5. Clay Jack Pipe bands shall be 316 stainless steel compression disc to distribute the jacking forces.



*PER MANUFACTURER'S RECOMMENDATIONS

41 290	Town of Buckeye Standard Details	CASING PIPE & SPACER	Revised: 03-20-12	Detail No. 41290

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

carollo

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
TYPICAL DETAIL I

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (Civil)
14718
ROBERT F. BUSS
DATE SIGNED 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03-31-2020

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER 2014-071	SHEET NUMBER SS11 — 87 OF 125

$$$$DATE$$$$
$$$$USER$$$$
$$$$PLOT_INFO$$$$
LAST SAVED BY: gdavis

PROJECT NO. 9984A10 FILE NAME: 9984A1000SS011.dgn

CITY OF BUCKEYE TRAFFIC SIGNAL NOTES

1. THE TRAFFIC SIGNAL EQUIPMENT, CONSTRUCTION, AND PAVEMENT MARKING SHALL CONFORM TO THE CITY OF BUCKEYE TRAFFIC SIGNAL DESIGN MANUAL, LATEST EDITION, ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) TRAFFIC SIGNAL AND LIGHTING STANDARD DRAWINGS, LATEST EDITION; MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) STANDARD DETAILS, LATEST EDITION, AS APPROPRIATE.
2. THE CONTRACTOR SHALL OBTAIN ALL PERMITS PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL COORDINATE WITH THE POWER COMPANY FOR ANY DE-ENERGIZING OF EXISTING FACILITIES PRIOR TO REMOVAL OF THE FACILITY.
4. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE CITY ENGINEER AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
5. THE CITY OF BUCKEYE IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES IN UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION.
6. THESE PLANS ARE BASED ON INFORMATION OBTAINED FROM UTILITY DESIGN PLANS ONLY AND MAY NOT REFLECT EXISTING LOCATIONS OF UTILITIES IN THE FIELD. ALL UTILITIES SHALL BE BLUE STAKED PRIOR TO THE START OF CONSTRUCTION. CONTACT BLUE STAKE 623.263.1100 OR 1.800.STAKE.IT (OUTSIDE OF MARICOPA COUNTY).
7. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TWO (2) COPIES OF ALL MATERIALS TO BE USED IN THE TRAFFIC SIGNAL TO THE CITY TRAFFIC ENGINEER FOR REVIEW AND APPROVAL. CONSTRUCTION SHALL NOT COMMENCE UNTIL THE SUBMITTALS HAVE BEEN REVIEWED AND APPROVED.
8. ALL FIBER OPTIC CABLES, SPLICE KITS, JUMPER CABLES AND EQUIPMENT WITH TECH PAD SHALL BE PER CITY OF BUCKEYE SPECIFICATIONS.
9. THE TOP OF THE SIGNAL CABINET FOUNDATION SHALL BE AN ELEVATION AT LEAST FOUR (4) INCHES ABOVE FINISHED GRADE.
10. TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR, PER THE CITY OF PHOENIX TRAFFIC BARRICADE MANUAL, LATEST EDITION; AND/OR AS DIRECTED BY THE CITY OF BUCKEYE ENGINEERING INSPECTOR.
11. THE CITY OF BUCKEYE ENGINEERING DIVISION SHOULD BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF EVERY MAJOR PHASE OF CONSTRUCTION WORK AT 623.349.6248 OR VIA THE CITY OF BUCKEYE WEBSITE AT WWW.BUCKEYEAZ.GOV TO COORDINATE INSPECTION REQUIREMENTS.
12. THE ORIENTATION OF THE CONTROLLER CABINET SHALL BE DETERMINED IN THE FIELD BY A CITY OF BUCKEYE REPRESENTATIVE.
13. A GROUND ROD SHALL BE INSTALLED ADJACENT TO THE ELECTRICAL SERVICE PANEL WITH A STRANDED BARE BOND #4 CONDUCTOR ATTACHED PER POWER PROVIDING COMPANY'S STANDARDS. THE BARE BOND CONDUCTOR SHALL BE ROUTED THROUGH THE FOUNDATION USING 1/2 INCH CONDUIT.
14. PRIOR TO ACCEPTANCE BY THE CITY OF BUCKEYE ENGINEERING DIVISION, DAMAGE TO ANY SIGNAL EQUIPMENT, POLES, ETC., SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, IN CONFORMANCE WITH NOTE 1 ABOVE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING THE FINAL AS-BUILT DRAWINGS FOR THE TRAFFIC SIGNAL PLANS. THE DRAWINGS SHALL BE SEALED BY AN ARIZONA REGISTERED CIVIL ENGINEER AND/OR LAND SURVEYOR. FINAL AS-BUILT PLANS SHALL BE PRINTED ON FOUR (4) BLACK LINE BONDS (11"X17").
16. TWO (2) SETS OF THE CONSTRUCTION PLANS FOR A TRAFFIC SIGNAL MUST BE SUBMITTED TO CITY OF BUCKEYE ENGINEERING DIVISION. ALL SUBMITTALS MUST BE APPROVED AND SIGNED BY CITY OF BUCKEYE ENGINEERING DIVISION PRIOR TO CONSTRUCTION.
17. THE CONTRACTOR SHALL POTHOLE AND VERIFY ALL NEW POLE AND STRUCTURE LOCATIONS WITH THE CITY'S REPRESENTATIVE PRIOR TO ANY CONSTRUCTION ACTIVITY.
18. ANY TRAFFIC SIGNAL CONSTRUCTION, PRIVATE OR PUBLIC, MUST BE SUPERVISED BY A CERTIFIED IMSA TRAFFIC SIGNAL LEVEL II TECHNICIAN ON SITE.
19. PRIOR TO SIGNAL ACTIVATION THE CONTRACTOR SHALL RING THE SIGNAL IN ALL PHASES WITH COB SIGNAL TECHNICIAN PRESENT. DURING THIS EVALUATION AN OFF DUTY UNIFORMED OFFICER SHALL BE PRESENT IN THE EVENT OF COMPLICATIONS.
20. ALL PVC CONDUITS SHALL BE UNUSED, SCHEDULE 40 PVC, AND CONFORM TO ADOT STANDARDS SPEC 732-3.01 AND ASTM D 1785 AND D 2467.
21. SOLVENT WELD FITTINGS SHALL BE ASSEMBLED USING THE APPROPRIATE PRIMERS AND SOLVENTS DESIGNED BY THE MANUFACTURER FOR USE WITH SCHEDULE 40 PIPING AND FITTINGS.
22. THE CONTRACTOR SHALL INSTALL CONDUIT PRIOR TO PLACING PAVEMENT FOR NEW CONSTRUCTION. FOR EXISTING ROADWAYS THE CONTRACTOR SHALL EITHER DIRECTIONAL DRILL UNDER THE EXISTING ASPHALT OR OPEN CUT. FOR OPEN CUT TRANCHES THE CONTRACTOR SHALL BACKFILL AND PATCH PER THE CITY OF BUCKEYE PAVING NOTES. ALL CONDUIT RELATED WORK SHALL COMPLY WITH SECTION 732-3.01 OF THE ADOT STANDARD SPECIFICATIONS, LATEST EDITION.
23. ALL NEW RED, YELLOW, AND GREEN SIGNAL INDICATORS, INCLUDING PEDESTRIAN INDICATORS, SHALL CONFORM TO LED TECHNOLOGY PER CITY OF BUCKEYE SPECIFICATIONS.
24. ALL VEHICLE DETECTION CABLES SHALL BE UNSPLICED FROM CONTROLLER CABINET TO DETECTION DEVICE.
25. A NEMA TYPE TS2 (ECONOLITE COBALT) CONTROLLER WITH ALL SIGNAL SYSTEM ACCESSORIES REQUIRED TO RUN AN EIGHT (8) PHASE, 16 LOAD BAY ALUMINUM OPERATION IN AN R-SERIES CABINET PER CITY OF BUCKEYE STANDARDS. ALL MANDATED HARDWARE NECESSARY FOR ASSEMBLING AND TESTING THE CONTROLLER SHALL BE DELIVERED TO THE CITY PRIOR TO INSTALLATION AND SHALL BE PROGRAMMED PRIOR TO DELIVERY. THE CITY SHALL VERIFY THE INITIAL PROGRAMMING AND TEST THE EQUIPMENT. THE CONTRACTOR SHALL PICK UP AND INSTALL THE CABINET AND NOTIFY THE CITY SEVENTY TWO (72) HOURS PRIOR TO INSTALLATION. DWG# TF5712TA205
26. THE CONTROLLER CABINET SHALL BE WIRED AND TAGGED WITH THE SAME PHASE NUMBER DESIGNATION AS SHOWN IN THE PHASE DIAGRAM. THE TAGS SHALL BE APPROVED BY THE TRAFFIC ENGINEER AND EACH CONNECTOR SHALL HAVE ALL PINS BROUGHT TO CABINET TIE POINTS. CONTROLLER CABINET WIRING SHALL BE PER CITY OF BUCKEYE COLOR CODING STANDARDS.
27. THE ELECTRICAL SERVICE ADDRESS IS: (TO BE PROVIDED TO DESIGN ENGINEER AS FIELD DIRECTIVE FROM C.O.B.) THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF BUCKEYE BUILDING DEPARTMENT AND ARIZONA PUBLIC SERVICE (APS) FOR ALL APPROPRIATE FEE PAYMENTS, PERMITTING, INSPECTION AND ACCEPTANCE OF ALL EQUIPMENT AND APPURTENANCES TO PROVIDE A COMPLETE, IN PLACE FUNCTIONING POWER SERVICE THAT ENERGIZES THE TRAFFIC SIGNAL. THE CONTRACTOR SHALL ARRANGE FOR POWER SERVICE TO BE OFFERED AND SHALL CARRY ALL THE COSTS OF PAYING FOR MONTHLY ELECTRICAL SERVICE CHANGES UNTIL SUCH TIME THAT THE TOWN HAS FINAL ACCEPTANCE OF ALL WORK.
28. THE CONTRACTOR SHALL VERIFY WITH THE CITY OF BUCKEYE TRAFFIC ENGINEER THE SIGNAL EQUIPMENT PRIOR TO ORDERING IT.
29. THE CONTRACTOR SHALL FURNISH AND INSTALL SHEET METAL SIGNS AND MOUNTING BRACKETS PER DETAILS IN THIS PLAN SET.
30. CITY OF BUCKEYE SIGNAL TECHNICIAN SHALL PROGRAM THE CONTROLLER WITH TIMING SEQUENCES PROVIDED BY THE CITY OF BUCKEYE TRAFFIC ENGINEER.
31. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE CITY OF BUCKEYE FOR APPROVAL. THE CONTRACTOR SHALL ALSO ATTAIN SHOP DRAWING APPROVAL PRIOR TO ORDERING EQUIPMENT.
32. ALL EQUIPMENT AND INSTALLATIONS SHALL MEET THE CITY OF BUCKEYE TRAFFIC SIGNAL SPECIFICATIONS.
33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS INCLUDING BUT NOT LIMITED TO:
    - A. PULL BOXES
    - B. CONDUCTORS
    - C. CONDUITS
    - D. SIGNS
    - E. SIGNAL POLES AND APPURTENANCES
    - F. SIGNAL FOUNDATIONS – FOUNDATIONS SHALL BE REMOVED COMPLETELY AND THOROUGHLY, THE HOLES SHALL BE BACKFILLED AND COMPACTED PER MAG SPEC 601.
36. ITEMS TO BE RELOCATED SHALL BE DONE IN SUCH A WAY THAT DOES NOT DAMAGE THEM. ANY ITEMS DAMAGED SHALL BE REPLACED IN KIND PER CITY OF BUCKEYE STANDARDS.
37. SEE STRIPING PLAN FOR ACTUAL LANE DIMENSIONS, STOP BAR, AND CROSSWALK LOCATIONS. VERIFY ALL LOCATIONS WITH THE TRAFFIC ENGINEER PRIOR TO INSTALLATION.
38. THE CONTRACTOR SHALL FIELD VERIFY ALL POLE FOUNDATION LOCATIONS WITH THE ENGINEER PRIOR TO ANY CONSTRUCTION ACTIVITY.
39. ALL POLE FOUNDATIONS SHALL BE INSPECTED BY THE CITY OF BUCKEYE PRIOR TO PLACEMENT OF CONCRETE. ALL OPEN EXCAVATIONS SHALL BE COVERED AT THE END OF EACH SHIFT IN A MANNER APPROVED BY THE ENGINEER. UPON COMPLETION OF THE EXCAVATION, CONCRETE SHALL BE PLACED WITHIN 24 HOURS.
40. TOP OF FOUNDATION SHALL BE THE SAME AS ADJACENT BACK OF SIDEWALK RAMP OR BACK OF CURB FINISH ELEVATIONS.
41. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF MAG STANDARD SPECIFICATIONS AND DETAILS.
42. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING HEIGHT OF SIGNAL MAST ARM IS NOMINAL TWENTY ONE (21) FEET ABOVE PAVEMENT.
43. ALL PEDESTRIAN SIGNALS SHALL BE LIGHT EMITTING DIODE (LED) INTERNATIONAL MAN/HAND COUNTDOWN TYPE.
44. ALL PULL BOXES SHALL BE LOCATED APPROXIMATELY AS SHOWN ON THE PLANS OR AS DIRECTED BY THE TRAFFIC ENGINEER.
45. ALL PULL BOXES SHALL BE LEFT IN A CLEAN CONDITION, FREE OF DIRT AND DEBRIS UPON COMPLETION OF THE WORK.
46. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DONE TO PUBLIC OR PRIVATE PROPERTY.
47. EXISTING SIGNAL EQUIPMENT THAT IS TO BE REMOVED SHALL BE SALVAGED AND RETURNED TO THE CITY OF BUCKEYE. THE SALVAGED EQUIPMENT SHALL BE DELIVERED TO THE CITY OF BUCKEYE PUBLIC WORKS DEPARTMENT (623-349-6825).
48. NO SPLICES SHALL BE MADE IN PULL BOXES EXCEPT FOR LIGHTING & SIGN LIGHTING CONDUCTORS. ONLY COMPLETE HOME RUNS. NO EXCEPTIONS.
49. BOND ALL ELECTRICAL APPARATUS TO GREEN INSULATED #8 STRANDED GROUND CONDUCTOR.
50. TRAFFIC SIGNAL CABINETS SHALL BE TESTED BEFORE INSTALLATION. TRAFFIC SIGNAL CABINETS SHALL BE SENT TO PAUL ROBBINS, CITY OF BUCKEYE, 415 E. ARIZONA EASTERN AVE BUCKEYE, AZ 85326 FOR TESTING.

CITY OF BUCKEYE TRAFFIC SIGNAL INSTALLATION NOTES

1. NEW AND USED SIGNAL CONDUITS SHALL BE BLOWN OUT WITH CITY OF BUCKEYE SIGNAL TECHNICIAN PRESENT.
2. RING OUT & LUMINAIRE BURN IN SHALL BE DONE WITH THE CITY OF BUCKEYE SIGNAL TECHNICIAN PRESENT.
3. ALL CONDUITS RUNS SHALL BE STRAIGHT FROM PULL BOX TO PULL BOX, OR PULL BOX TO POLE. ONLY TWO (2) 90 DEGREE SWEEPS ALLOWED PLUS NORMAL DEFLECTION.
4. PULLING CABLE OVER CABLE SHALL NOT BE ALLOWED FROM PULL BOX TO PULL BOX IN THE SAME RACEWAY.
5. CITY OF BUCKEYE SIGNAL TECHNICIAN SHALL ALIGN POLES PRIOR TO CONCRETE PLACEMENT.
6. ADOT STANDARDS AND DETAILS WILL BE FOLLOWED.
7. A BITUMINOUS JOINT SHALL BE PROVIDED BETWEEN THE SIDEWALK AND FOUNDATIONS FOR ALL MAST ARM POLES LOCATED WITHIN SIDEWALK.

CITY OF BUCKEYE TRAFFIC GENERAL NOTES

1. CITY OF BUCKEYE BUILDING DEPARTMENT SHALL; BE NOTIFIED 24 HOURS IN ADVANCE OF ANY ON-SITE OR OFF SITE CONSTRUCTION. PHONE 623-349-6248 FOR THE HOTLINE. ALL OTHERS FAX THE INSPECTION REQUEST FORM TO 623.349.6221, OR USE THE WEB BASED PERMIT PORTHOLE ACCESS TO SCHEDULE AN INSPECTION (WWW.BUCKEYEAZ.GOV).
2. ALL WORKS AND MATERIALS MUST CONFORM TO THESE SPECIFICATIONS, THE CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS SPONSORED AND DISTRIBUTED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G) AND AS AMENDED BY THE CITY OF BUCKEYE (COB).
3. A PERMIT IS REQUIRED FROM THE COB FOR ALL CONSTRUCTION WITHIN THE RIGHTS-OF-WAY (ROW).
4. THE CONTRACTOR WILL EXPOSE ALL EXISTING UTILITY LINES BEING TIED IN TO VERIFY THEIR LOCATION.
5. THE CONTRACTOR WILL LOCATE, OR HAVE LOCATED, ALL EXISTING UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, PIPELINE, ETC) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL ELIMINATE ALL CONFLICTS PRIOR TO START OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE TO CALL BLUE STAKE PRIOR TO STARTING ANY CONSTRUCTION, NO WORK SHALL BEGIN UNTIL BLUE STAKE IS COMPLETED. BLUE STAKE TELEPHONE NUMBER 602.263.1100 OR 1-800-STAKE IT.
7. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO STARTING ANY WORK OR NEW PHASE OF WORK. THE CONTRACTOR, KEY SUB-CONTRACTORS, COB INSPECTOR AND REPRESENTATIVE OF THE CITY ENGINEER SHALL ATTEND THE MEETING.
8. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE COB AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE.
9. DISPOSAL OF EXCESS MATERIAL WITHOUT A PERMIT WITHIN THE COB LIMITS IS PROHIBITED. A USE PERMIT IS REQUIRED FOR DISPOSAL OR STOCKPILING OF MATERIALS WITHIN A RESIDENTIAL AREA. STOCKPILING OF EXCAVATED MATERIAL SHALL NOT EXCEED A HEIGHT OF 6 FEET ABOVE THE NATURAL GROUND ELEVATION. THE SLOPES ON ALL SIDES OF THE STOCKPILED EXCAVATED MATERIAL SHALL NOT EXCEED 4:1 RATIO OF LENGTH TO HEIGHT.
10. EXCAVATION CONTRACTORS MUST IDENTIFY LOCATION FOR DISPOSING OF EXCESS MATERIAL ALONG WITH A LETTER FROM THE OWNER, GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ANY CONSTRUCTION.
11. TRAFFIC CONTROL SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF PHOENIX BARRICADING MANUAL, MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION, MAG. UNIFORM STANDARD DETAIL 401, AND COB REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN AND BARRICADE PLAN TO THE COB FOR APPROVAL WHERE THE CONSTRUCTION OF THE NEW IMPROVEMENTS ARE ADJACENT TO OR CONNECTING TO ANY EXISTING ROADWAY OR PEDESTRIAN FACILITIES. THE TRAFFIC CONTROL PLAN AND BARRICADE PLAN SHALL BE APPROVED BEFORE A PERMIT FOR THE WORK WILL BE ISSUED. THE CONTRACTOR SHALL INSTALL APPROVED BARRICADING AND TRAFFIC CONTROL AS APPROVED BY THE COB, BEFORE WORK CAN TAKE PLACE. ALL OVERNIGHT BARRICADES SHALL BE LIT AND FUNCTIONING.
12. A HAUL PLAN FOR MATERIAL IMPORT OR EXPORT SHALL BE REQUIRED FOR COB REVIEW AND APPROVAL PRIOR TO THE START OF HAULING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXITING PAVED STREETS USED BY CONSTRUCTION TRAFFIC. THIS WORK INCLUDES EXISTING STREET SWEEPING, POWER BROOM AND WATER AS NEEDED OR DIRECTED BY THE COB.
13. ENVIRONMENTAL REQUIREMENTS
    - A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL RELATED TO THE PROJECT CONSTRUCTION AND SHALL TAKE WHATEVER MEANS NECESSARY TO CONTROL ANY ABNORMAL CONDITIONS.
    - B. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND TAKE WHATEVER MEASURES ARE NECESSARY TO ENSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD, AND DUST FREE CONDITION AT ALL TIMES.
    - C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC.
    - D. TEMPORARY DRAINAGE CONTROL MEASURES MAY BE REQUIRED DURING AND AFTER CONSTRUCTION UNTIL FINAL PROJECT BUILD-OUT IN ACCORDANCE WITH THE APPROVED PLANS AND IN ACCORDANCE WITH ANY ESTABLISHED OR REQUIRED BEST MANAGEMENT PRACTICES (BMP) AS PART OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO MEET ALL REQUIREMENTS.
    - E. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL AIR QUALITY PERMITS.
    - F. THE CONTRACTOR SHALL SUBMIT TO THE COB A COPY OF THEIR APPROVED COUNTY (AIR QUALITY) DUST CONTROL PLAN, EROSION CONTROL PLAN (SWPPP), PERMIT PRIOR TO THE START OF WORK.
14. STREET CUTS: APPLICATIONS FOR STREET CUT PERMITS MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO APPROVAL OF IMPROVEMENT PLANS. THE PAVEMENT REPLACEMENT SECTION FOR ALL LONGITUDINAL AND TRANSVERSE TRENCHES LOCATED IN AN EXISTING PAVED STREET SHALL BE CONSTRUCTED IN ACCORDANCE WITH MAG UNIFORM STANDARD DETAIL NO. 200 "T"-TOP, BACKFILL, PAVEMENT SURFACE REPLACEMENT, MODIFIED AS FOLLOWS: THE WIDTH OF THE SURFACE REPLACEMENT SHALL BE A MINIMUM OF 3 INCHES OR MATCH THE EXISTING THICKNESS OF THE PAVEMENT, WHICHEVER IS GREATER. SAW CUT OR CONSTRUCTION JOINTS SHALL BE ADEQUATELY TACK OILED WITH A MINIMUM OF 95% COVERAGE. ASPHALT MATERIAL SHALL BE A COB APPROVED MIX DESIGN WITH COMPACTED LIFTS NO GREATER THAN 3 INCHES. SLURRY BACK-FILLED OR OPEN TRENCHES IN EXISTING ROADWAYS MUST BE PROPERLY STEEL PLATED AND BARRICADED OVER NIGHT STEEL PLATED TO BE MILLED FLUSH WITH ROADWAY SURFACE PER NOTE 24. "COLD MIX" TEMPORARY ASPHALT PATCHES MUST BE REPLACES AS SOON AS POSSIBLE AND CANNOT REMAIN FOR MORE THAN 5 DAYS TIME OR AS REQUIRED BY THE COB. DURING THE 5 DAY PERIOD THE CONTRACTOR IS REQUIRED TO MAINTAIN THE PATCH TO WITHIN MAG STD SPEC 321.5.3 ASPHALT IN PLACE FOR LESS THAN 5 YEARS SHALL BE MILLED AND OVERLAID A MINIMUM OF 20 FEET PAST TRENCH WALLS, AND IN THE CASE OF MULTIPLE STREET CUTS, THE CONTINUOUS MILL AND OVERLAY SHALL EXTEND A MINIMUM OF 20-FEET PAST END OF THE FURTHEST TRENCH WALLS.
15. POTHOLING: NO POTHOLING SHALL BE DONE ON ANY STREET NEWER THAN 2 YEARS OLD. ALL POTHOLING IN EXISTING STREETS SHALL BE DONE USING WATER/AIR/VACUUM TYPE METHOD. POTHOLE METHOD SIZE SHALL BE LIMITED TO A 12 INCH BY 12 INCH SQUARE HOLE. REMOVAL MATERIAL CANNOT BE USED FOR BACK FILL. THE CONTRACTOR SHALL USE SLURRY PER MAG SEC. 728. PAVEMENT REPLACEMENT SHALL BE BY APPROVED HOT MIX ASPHALT ONLY. A 3 FOOT BY 3 FOOT PAVEMENT SLURRY SHALL BE APPLIED AFTER THE ASPHALT IS PLACED.
16. AN APPROVED, UP-TO-DATE SET OF PLANS AND A RIGHT-OF-WAY PERMIT SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIME WHILE WORK IS IN PROGRESS. IF THE PLANS AND PERMITS ARE NOT ON SITE, THE WORK SHALL BE STOPPED UNTIL THE APPROVED PLANS ARE PROVIDED. DEVIATION FROM THE PLANS SHALL NOT BE ALLOWED WITHOUT THE COB'S APPROVAL.
17. DAMAGE TO ANY AND ALL ITEMS CAUSED BY CONSTRUCTION OR CONSTRUCTION RELATED WORK SHALL BE REPLACED OR REPAIRED BY THE SAME OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
18. ALL PARCEL CONSTRUCTION ACCESS LOCATIONS ARE SUBJECT TO THE CITY'S ENGINEER'S APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER AND ADEQUATE ACCESS ROADS INSIDE AND THROUGHOUT THE PARCEL ALLOWING FOR INSPECTION ACCESSIBILITY. THIS INCLUDES GRADING, GRAVEL FILL AND/OR TRENCH PLATES AS REQUIRED.
19. THE CONTRACTOR AGREES SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL, WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE COB AND THE COB CONSULTANTS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE COB.
20. THE COB SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONNECTION WITH THE WORK. THE COB WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS COMPLYING WITH MAG OR COB REQUIREMENTS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CERTIFIED AS-BUILT RECORD DOCUMENTS TO THE COB FOR REVIEW AND APPROVAL. NO FINAL ACCEPTANCE SHALL BE ISSUES UNTIL AS-BUILT PLANS CERTIFIED BY THE PROJECT ENGINEER/LAND SURVEYOR HAVE BEEN SUBMITTED AND ACCEPTED BY THE COB. FINAL CONSTRUCTION ACCEPTANCE OR THE RELEASE OR CERTIFICATE OF OCCUPANCIES SHALL NOT BE ISSUED UNTIL ALL AS-BUILT DRAWINGS AND OTHER REQUIRED DOCUMENTS PER THE COB'S FINAL PROJECT SUBMITTAL CHECKLIST, HAVE BEEN REVIEWED AND APPROVED BY THE CITY ENGINEER.
22. ARRANGEMENTS FOR CONSTRUCTION WATER CAN BE MADE BY CALLING THE WATER RESOURCE DEPARTMENT AT (623)349-6800.
23. THE COB IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. ALSO, THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR RELOCATION OF UTILITIES.
24. ALL CONTRACTORS SHALL CONTRACT FOR TRASH PICKUP THROUGH A LICENSED CITY OF BUCKEYE SOLID WASTE HAULER (623-349-6100) AND DISPOSED OF AT THE SOUTHWEST REGIONAL LANDFILL IN BUCKEYE.
25. OPEN TRENCHES ACROSS DRIVEWAYS, STREETS AND CROSS STREETS SHALL BE PLATED FOR OVERNIGHT, WEEKEND OR EXTENDED PERIODS, PER MAG. UNIFORM STANDARD DETAIL 211.
26. ALL ABC SHALL BE FROM AN ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) APPROVED SOURCE LIST.
27. LONGITUDINAL TRENCH BACKFILL IN EXISTING ARTERIAL, COLLECTOR, OR LOCAL ROADWAYS OR ADJACENT TO EXISTING ROADWAY (WHEN THE TRENCH EXCAVATION FALLS WITHIN 2 FEET OF EDGE OF PAVEMENT) SHALL REQUIRE 1/2 SACK CLSM PER MAG SPEC 728 FULL DEPTH OR ABC FULL DEPTH AS DIRECTED BY THE COB. ABC BACKFILL COMPACTION SHALL BE BY AN APPROVED MECHANICAL METHOD (NO WATER SETTLING) WITH BACKFILL MATERIALS AS FOLLOWS:
    - 12 INCH LIFTS (LOOSE) TO BE USED IN THE TOP 4 FEET OF THE TRENCH
    - 24 INCH LIFTS (LOOSE) TO BE USED FROM 1 FOOT OVER THE PIPE TO 4 FEET FROM THE TOP OF THE TRENCH PER MAG SEC. 601.4.
28. ALL BACKFILL WITHIN OR ADJACENT TO EXISTING ROADWAYS SHALL BE MECHANICALLY COMPACTED.
29. TRANSVERSE TRENCH BACKFILL IN ALL EXISTING ROADWAYS SHALL REQUIRE 100% FULL DEPTH HALF SACK CLSM PER MAG SPEC 728.
30. ALL MATERIAL SUBMITTALS INCORPORATED IN THE PROJECT SHALL BE SUBMITTED AT OR BEFORE THE PRECONSTRUCTION MEETING FOR REVIEW AND APPROVAL BY THE CITY ENGINEER.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION
SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
TRAFFIC SIGNAL NOTES

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
	APPROVED JAN 17 2018 CITY OF BUCKEYE ENGINEERING
AS-BUILT SEAL	DESIGN SEAL: REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 32339 ANDREW R. SMIGIELSKI ARIZONA, U.S.A. Expires 3-31-19
ORIGINAL PLAN DATE 12-27-2016	LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071	SHEET NUMBER TS01 — 88 OF 125

SUBMITTAL: 3RD SUBMITTAL
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

PLOT DATE: Dec 11, 2017
FILE: P:\projects 2015\15046 - roosevelt id (buckeye)\design\cadd\dwg\215035-SG.dwg

IMSA CABLE 19-1, #14AWG, 7 CONDUCTOR & 4 CONDUCTOR

SIGNAL HEADS OUTBOARD & FAR LEFT	
7 CONDUCTOR CABLE	
BASIC COLOR	SIGNAL INTERVAL
RED	RED
BLACK	YELLOW
GREEN	GREEN
ORANGE	YELLOW ARROW
BLUE	GREEN ARROW
WHITE	VEH. COM.
WHITE/BLACK	VEH. COM.

SIGNAL HEADS INBOARD & SIDEMOUNT	
4 CONDUCTOR CABLE	
BASIC COLOR	SIGNAL INTERVAL
RED	RED
BLACK	YELLOW
GREEN	GREEN
WHITE	VEH. COM.

PEDESTRIAN HEADS	
4 CONDUCTOR CABLE	
BASIC COLOR	SIGNAL INTERVAL
RED	DON'T WALK
GREEN	WALK
WHITE	PED. COM.
BLACK	SPARE

PUSH BUTTON	
4 CONDUCTOR CABLE	
BASIC COLOR	PUSH BUTTON STATION
RED	PUSH BUTTON
WHITE	P.B. COM.
GREEN	SPARE
BLACK	SPARE

THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE

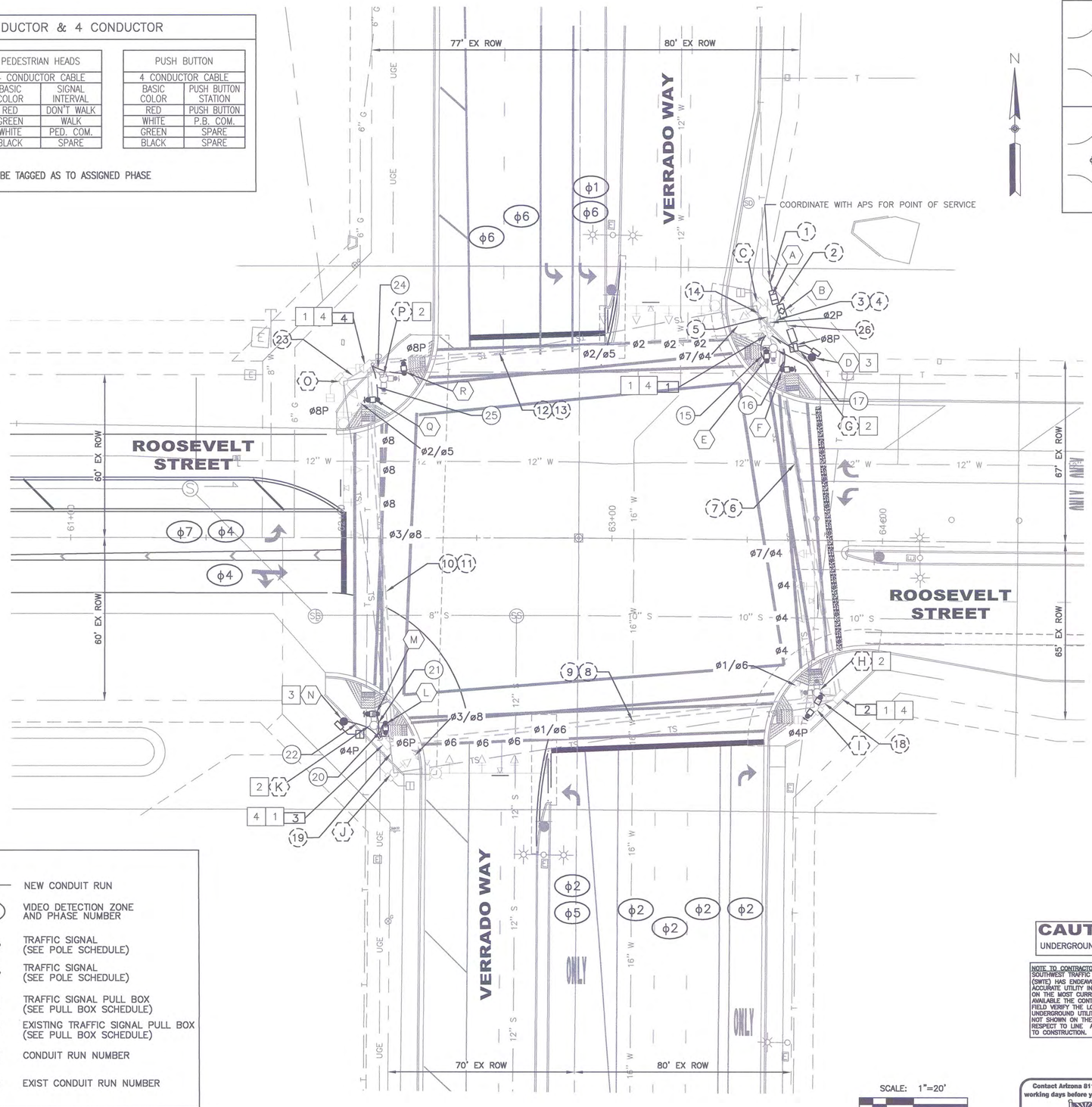
PULLBOX SCHEDULE

NO.	TYPE	LOCATION*
1	NO 7 W/EXT	STA 63+56.3, OFFSET 76.5 LT
2	NO 7	STA 63+84.5, OFFSET 57.3 RT
3	NO 7	STA 62+16.29, OFFSET 75.4 RT
4	NO 7	STA 62+9.5, OFFSET 63.1 LT

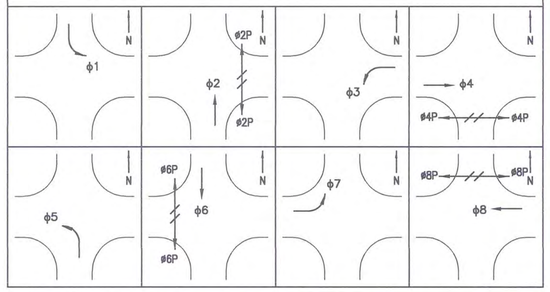
* ALL STATIONING FROM ℄ OF ROOSEVELT STREET. STATIONS AND OFFSETS SHOWN ARE APPROXIMATE, ACTUAL LOCATIONS ARE TO BE FIELD VERIFIED BY THE TRAFFIC SIGNAL INSPECTOR PRIOR TO INSTALLATION.

CONSTRUCTION NOTES:

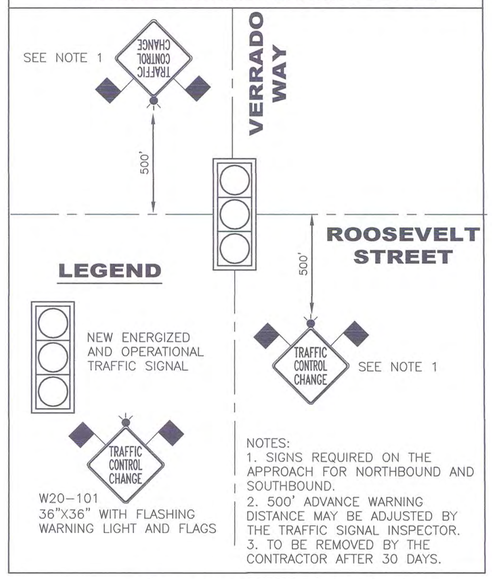
1. REMOVE CONCRETE COVER ON TOP OF EXISTING #7 & #7 W/EXT PULL BOX.
2. REMOVE EXISTING TRAFFIC SIGNAL POLE AND EQUIPMENT.
3. CONTRACTOR SHALL POTHOLE POLE LOCATIONS TO VERIFY NO UTILITY CONFLICTS,
4. REPLACE EXISTING PULL BOX WITH NEW HEAVY DUTY, SIDEWALK RATED, OLDCASTLE FIBRELYTE PULL BOX. INSTALL FLUSH IN NEW SIDEWALK.



PROPOSED PHASING SEQUENCE SCHEMATIC



ADVANCE WARNING SIGNING DETAIL



LEGEND

EXIST CONDUIT RUN	NEW CONDUIT RUN
EXISTING METER PEDESTAL	ϕX VIDEO DETECTION ZONE AND PHASE NUMBER
EXISTING CONTROLLER CABINET	X TRAFFIC SIGNAL (SEE POLE SCHEDULE)
NEW CONTROLLER CABINET	X TRAFFIC SIGNAL (SEE POLE SCHEDULE)
NEW METER PEDESTAL	X TRAFFIC SIGNAL PULL BOX (SEE PULL BOX SCHEDULE)
NO. 7 PULL BOX WITH EXTENSION	X EXISTING TRAFFIC SIGNAL PULL BOX (SEE PULL BOX SCHEDULE)
NO. 7 PULL BOX	XX CONDUIT RUN NUMBER
PRE-EMPTION DETECTOR	XX EXIST CONDUIT RUN NUMBER
VIDEO DETECTION CAMERA	

* BASE FILE PROVIDED BY RPA ON 6 DECEMBER 2017.

SCALE: 1"=20'
0' 10' 20' 40'

CAUTION
UNDERGROUND UTILITIES

NOTE TO CONTRACTOR:
SOUTHWEST TRAFFIC ENGINEERING, LLC. (SWTE) HAS ENDEAVORED TO PROVIDE ACCURATE UTILITY INFORMATION BASED ON THE MOST CURRENT DATA AVAILABLE. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF UNDERGROUND UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS WITH RESPECT TO LINE AND GRADE PRIOR TO CONSTRUCTION.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION
SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
TRAFFIC SIGNAL PLAN

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL: APPROVED JAN 17 2018 CITY OF BUCKEYE ENGINEERING
AS-BUILT SEAL	DESIGN SEAL: REGISTERED PROFESSIONAL ENGINEER (CIVIL) 32339 ANDREW R. SMIGIELSKI ARIZONA, U.S.A. Expires 3-31-19
ORIGINAL PLAN DATE 12-27-2016	LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071	SHEET NUMBER TS02

SUBMITTAL: 3RD SUBMITTAL
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

PLOT DATE: Dec 11, 2017
FILE: P:\projects 2015\15046 - roosevelt id (buckeye)\design\cadd\dwg\215035-SG.dwg

CABINET AND POLE SCHEDULE

TRAFFIC SIGNAL CONTROLLER						
CABINET	TYPE	EQUIPMENT	ASSEMBLY NOTES	REMARKS	LOCATION @ ROOSEVELT STREET
(A) PEC	METER PEDESTAL SEE NOTE 5	INSTALL MYERS MEUG 16 TS POWER METER PEDESTAL.	METER PEDESTAL SHALL HAVE STAINLESS STEEL ENGRAVED ADDRESS PLATE.	CONTRACTOR TO COORDINATE SERVICE PEDESTAL ON EXISTING CONCRETE PAD.	STA 63+58, 89' LT EXISTING FOUNDATION TO REMAIN
(B)	EAGLE/SIEMANS R-77 DWG TF5712TA205 16 CHANNEL. INSTALL SECOND 3/4" X 10' GROUND ROD.	COBALT 16-PHASE CONTROLLER (TS2-1)	INSTALL 18" ELEVATOR BASE	CONTRACTOR TO COORDINATE CABINET CONFIGURATION ON EXISTING CONCRETE PAD. IF EXISTING FOUNDATION DOES NOT WORK, CONTRACTOR TO PROVIDE NEW AND REMOVE EXISTING.	STA 63+62 84' LT EXISTING FOUNDATION TO REMAIN

POLES		MAST ARMS		SIGNALS		PED P.B. SIGN		
NO.	TYPE	SIG.	LUM.	MTG.	FACE		REMARKS	LOCATION
(C) IISNS, REMOVE EXISTING PED HEAD, RELOCATE & INSTALL ON 6' RISER.	R	55'	20'	1-VII 1-XI 3-*	3-F 1-Q 1-Q2	–	INSTALL NEW IISNS SIGN FACE. REMOVE EXISTING EB/WB PED HEAD. SEE NOTES 9,10,11,12,13,14,15 & 17 * = SEE CITY OF BUCKEYE COUPLET SIGNAL STRUCTURE.	63+53 86' LT EXISTING TO REMAIN
(D) PED HEAD	A 8'	–	–	1-IV	1-P/H	–	INSTALL NEW TRAFFIC SIGNAL POLE AND PED HEAD.	STA 63+73 67' LT
(E)	PPB 5'-6"	–	–	–	–	R10-3 (R)	INSTALL NEW TRAFFIC SIGNAL POLE.	STA 63+57 65' LT
(F)	PPB 5'-6"	–	–	–	–	R10-3 (L)	INSTALL NEW TRAFFIC SIGNAL POLE.	STA 63+63 62' LT
(G)	–	–	–	–	–	–	REMOVE EXISTING TRAFFIC SIGNAL POLE AND EQUIPMENT.	STA 63+59 70' LT TO BE REMOVED
(H)	–	–	–	–	–	–	REMOVE EXISTING TRAFFIC SIGNAL POLE AND EQUIPMENT.	STA 63+76 56' RT TO BE REMOVED
(I) IISNS, NEW PED PUSH BUTTON, RELOCATE & INSTALL ON 6' RISER, NEW PED PUSH BUTTON	R	55'	20'	1-VII 1-XI 3-*	3-F 1-Q 1-Q2	R10-3 (L) R10-3 (R)	INSTALL NEW IISNS SIGN FACE. INSTALL TWO (2) NEW PED PUSH BUTTON. SEE NOTES 9,10,11,12,13,14 & 15. * = SEE CITY OF BUCKEYE COUPLET SIGNAL STRUCTURE.	STA 63+75 62' RT EXISTING TO REMAIN
(J) IISNS, REMOVE EXISTING PED HEAD, RELOCATE & INSTALL ON 6' RISER.	–	–	–	–	–	–	INSTALL NEW IISNS SIGN FACE. SEE NOTES 9,10,11,12,13,14 & 15.	STA 62+20 86' RT EXISTING TO REMAIN
(K)	–	–	–	–	–	–	REMOVE EXISTING TRAFFIC SIGNAL POLE AND EQUIPMENT.	STA 62+12, 69' RT TO BE REMOVED
(L)	PPB 5'-6"	–	–	–	–	R10-3 (R)	INSTALL NEW TRAFFIC SIGNAL POLE.	STA 62+16, 68' RT
(M)	PPB 5'-6"	–	–	–	–	R10-3 (L)	INSTALL NEW TRAFFIC SIGNAL POLE.	STA 62+01, 65' RT
(N) PED HEAD	A 8'	–	–	1-IV	1-P/H	–	INSTALL NEW TRAFFIC SIGNAL POLE PED HEAD.	STA 62+13, 68' RT

POLES		MAST ARMS		SIGNALS		PED P.B. SIGN		
NO.	TYPE	SIG.	LUM.	MTG.	FACE		REMARKS	LOCATION
(O) IISNS, PED HEAD, RELOCATE & INSTALL ON 6' RISER.	R	55'	20'	1-VII 1-XI 3-*	3-F 1-Q 1-Q2	–	INSTALL NEW IISNS SIGN FACE. REMOVE EXISTING EB/WB PED HEAD. SEE NOTES 9,10,11,12,13,14,15 & 17 * = SEE CITY OF BUCKEYE COUPLET SIGNAL STRUCTURE.	STA 62+01 57' LT EXISTING TO REMAIN
(P)	–	–	–	–	–	–	REMOVE EXISTING TRAFFIC SIGNAL POLE AND EQUIPMENT.	STA 62+16, 59' LT TO BE REMOVED
(Q)	PPB 5'-6"	–	–	–	–	R10-3 (R)	INSTALL NEW TRAFFIC SIGNAL POLE.	STA 62+13, 51' LT
(R)	PPB 5'-6"	–	–	–	–	R10-3 (L)	INSTALL NEW TRAFFIC SIGNAL POLE.	STA 62+23, 61' LT

IMSA CABLE 19-1, #14AWG, 20 CONDUCTOR				
CABLE #1	CABLE #2	CONDUCTOR COLOR: BASIC COLOR	CONDUCTOR COLOR: TRACER STRIPE	SIGNAL INTERVAL
ϕ1	ϕ5 OR OVERLAP A	RED	WHITE	RED
		BLACK	WHITE	YELLOW
		GREEN	WHITE	GREEN
ϕ2	ϕ6 OR OVERLAP B	RED	---	RED
		ORANGE	---	YELLOW
		GREEN	---	GREEN
ϕ3	ϕ7 OR OVERLAP C	BLACK	RED	RED
		ORANGE	RED	YELLOW
		BLUE	RED	GREEN
ϕ4	ϕ8 OR OVERLAP D	RED	BLACK	RED
		ORANGE	BLACK	YELLOW
		GREEN	BLACK	GREEN
ϕ2 PED	ϕ6 PED	BLUE	---	WALK
		BLACK	---	DON'T WALK
		WHITE	BLACK	PUSH BUTTON
ϕ4 PED	ϕ8 PED	BLUE	WHITE	WALK
		RED	GREEN	DON'T WALK
		WHITE	RED	PUSH BUTTON
ALL PHASES	ALL PHASES	WHITE	---	P.B. COM.
		BLUE	BLACK	SPARE

CABLE #2 SHALL BE MARKED WITH 2 INDIVIDUAL 3/8 INCH WIDE STAINLESS STEEL BANDS SIDE BY SIDE WITH A 1/2 INCH GAP BETWEEN BANDS, AT EACH PULL BOX LOCATION. INDIVIDUAL CONDUCTORS IN THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE.

WIRING NOTES:

1. SEE CITY OF BUCKEYE STANDARDS FOR CURRENT WIRING DIAGRAMS.
2. NO SPLICES IN PULL BOXES FOR SIGNAL CONDUCTORS SHALL BE ALLOWED.
3. GATOR PATCH CABLE SHALL HAVE 50 FEET COILED IN EXISTING ADJACENT #9 VAULT.
4. CONDUCTOR OR DETECTION CABLES IN ONE RACEWAY MUST BE PULLED AT ONCE. NO WIRE PULLED OVER ANOTHER WIRE IN THE SAME RACEWAY WILL BE ALLOWED.
5. PEDESTRIAN PUSH BUTTON IMSA 19-1, 2CC SHALL BE STRANDED.

FLASH SEQUENCER	
PHASE 4 & 8	RED
PHASE 2 & 6	RED

SIGNAL EQUIPMENT NOTES:

1. AS APPLICABLE: ALL EQUIPMENT, CONSTRUCTION, AND INSTALLATIONS SHALL CONFORM WITH CITY OF BUCKEYE APPROVED MATERIALS FOR TRAFFIC SIGNALS AND LIGHTING AND MEET CITY OF BUCKEYE TRAFFIC SIGNAL DESIGN CRITERIA.
2. ALL PEDESTRIAN SIGNAL SHALL BE LED, COUNTDOWN TYPE WITH A 16x18 INCH FACE.
3. ALL PEDESTRIAN PUSH BUTTON SIGNS SHALL CONFORM TO SIGN R10-3e OF THE 2009 MUTCD. ALL NEW AND EXISTING (REPLACE) PEDESTRIAN PUSH BUTTONS SHALL BE NON AUDIBLE, USE 5x7 McCAIN WITH POLARA BULLDOG. RUN 2-WIRE CONDUCTORS TO EACH PUSH BUTTON.
4. PROVIDE AND INSTALL OPTICOM EMERGENCY VEHICLE PRE-EMPTION SYSTEM WITH FOUR-CHANNEL PHASE SELECTOR (MODEL 764), CARD RACK (MODEL 760E), DETECTOR CABLE (MODEL 138), AND DETECTOR (MODEL 722).
5. CONTRACTOR TO PROVIDE NEW MYERS MEUG16A-100 WITH PHOTOELECTRIC CELL ON EXISTING FOUNDATION. IF NEW METER DOES NOT FIT ON EXISTING METER PAD, CONTRACTOR TO PROVIDE NEW FOUNDATION.
6. CONTRACTOR TO REPLACE EXISTING LUMINAIRE WITH GE EVOLVE: (ERS4-0-P3-C-15-40-7-WHITE-DL) WITH SHORTING CAP PER CITY OF BUCKEYE REQUIREMENTS.
7. CONTRACTOR SHALL FURNISH AND INSTALL A RUGGEDCOM RS900-HI-N-C2-C2 ETHERNET SWITCH IN THE NEW TRAFFIC SIGNAL CABINET.
8. ALL NEW AND EXISTING POLES, MAST ARMS, AND LUMINAIRES SHALL BE POWDER COAT WHITE PER BUCKEYE STANDARDS.
9. REPLACE EXISTING VIDEO DETECTION CAMERAS. NEW CAMERAS SHALL BE ITERIS VECTOR. INSTALL ALL CAMERAS ON SIX FOOT RISERS. NORTH/SOUTH FACING CAMERAS SHALL BE VANTAGE VECTOR HYBRID AND PROVIDE ADVANCE RADAR DETECTION AS WELL AS STOP BAR DETECTION. EAST/WEST FACING CAMERAS SHALL PROVIDE ONLY STOP BAR DETECTION.
10. CONTRACTOR TO UN-BAG ALL EXISTING TRAFFIC SIGNAL HEADS. HEADS SHALL BE TESTED IN THE FIELD WITH CITY OF BUCKEYE TRAFFIC SUPERVISOR. IF HEADS ARE FOUND TO OPERATE ADEQUATELY, VISORS SHALL BE ADDED AS NEEDED.
11. REMOVE AND REPLACE EVP DEVICES ON POLE C,I,J,O AND INSTALL 722 GTT.
12. REMOVE GREEN LED IN SIGNAL HEADS AND REPLACE WITH CLEAR DRG-ECFB-VLA.
13. CONVERT IISNS LIGHTING TO LED AND REPLACE SIGN FACE. SEE SPECIAL PROVISIONS.
14. ALL EXISTING POLES SHALL HAVE THE RUST REMOVED AND BE RE-POWDER COATED WHITE IN PLACE UP TO THE MAST ARM. NO SEPARATE BID ITEM WILL BE CREATED FOR THIS WORK AS IT IS CONSIDERED INCIDENTAL TO OTHER PROJECT ITEMS.
15. REPLACE EXISTING TYPE V SIDE MOUNTS WITH ADOT APPROVED EQUIPMENT AS SHOWN IN ADOT T.S. 9-3. MOUNTS SHALL ALLOW FULL ROTATION OF EXISTING POLE MOUNTED SIGNAL FACES ON POLES C, I, J AND O.
16. CERTIFIED WELDER TO FILL ALL HOLES CREATED BY THE REMOVAL OF ANY ITEMS.

CONDUCTOR SCHEDULE

			E	E	E	E	E	E	E	E	E	E	E	E	E				E	E				E				E
		CONDUIT RUN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
		CONDUIT SIZE (INCH)	2.5	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	3	3	2	2	2	3	2	2	2
SIGNAL HEADS, PEDESTRIAN HEADS, AND PEDESTRIAN PUSH BUTTONS		#14 IMSA 19-1 20-CONDUCTOR				2		2		2				2														
		#14 IMSA 19-1 7-CONDUCTOR														2				2	2				2			
		#14 IMSA 19-1 4-CONDUCTOR														4	1	1	1	7	4	1	1	1	5	1	1	
		#8 WHITE THW, COMMON, SOLID				1		1		1				1		1	1	1	1	1	1	1	1	1	1	1	1	
		#8 GREEN THW, SOLID	1	1		1		1		1				1		1	1	1	1	1	1	1	1	1	1	1	1	
LUMINAIRES AND IISNS	CK #1	#10 BLACK, SOLID, RED TAPE					1	1		1		SPARE	SPARE	1		1				1	1				1			
		#10 WHITE, SOLID, RED TAPE					1	1		1				1		1				1	1				1			
	CK #2	#10 BLACK, SOLID, BROWN TAPE					1	1		1				1		1				1	1				1			
		#10 WHITE, SOLID, BROWN TAPE					1	1		1				1		1				1	1				1			
		#10 GREEN THW, SOLID					1	1		1				1		1				1	1				1			
SERVICE		#6 (120/240)	◆	2																								
PRE-EMPTION ⧗		CABLE (COMM AND POWER) PER MANUFACTURER			4			2			1				1	1				1	1				1			
OTHER		FIBER OPTIC GATOR PATCH																										1
		VIDEO AND ADVANCE RADAR DETECTION			4			2			1				1	1				1	1				1			
		#12 LOCATE WIRE										1	1															
		MULE TAPE										1	1															

CONDUCTOR SCHEDULE NOTES:
1. ALL NEW WIRE SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
2. THE IMSA 20-CONDUCTOR CABLE SHALL BE RUN UNSPLICED FROM THE CABINET TO THE SIGNAL POLE TERMINAL BLOCK.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING MULTI-COLOR CONDUCTORS WHICH MEET THE COLOR CODING CRITERIA IDENTIFIED BELOW.
4. INSTALL #8 INSULATED BOND.
5. CONTRACTOR SHALL VERIFY ALL CONDUIT AND CONDUCTOR QUANTITIES.

◆ APS TO INSTALL CONDUCTOR IN EXISTING CONDUIT

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION
SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
POLE/CONDUCTOR SCHEDULE

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 32339 ANDREW R. SMIGIELSKI Date Signed 1-11-18 ARIZONA, U.S.A.
Expires 3-31-19

SUBMITTAL: 3RD SUBMITTAL

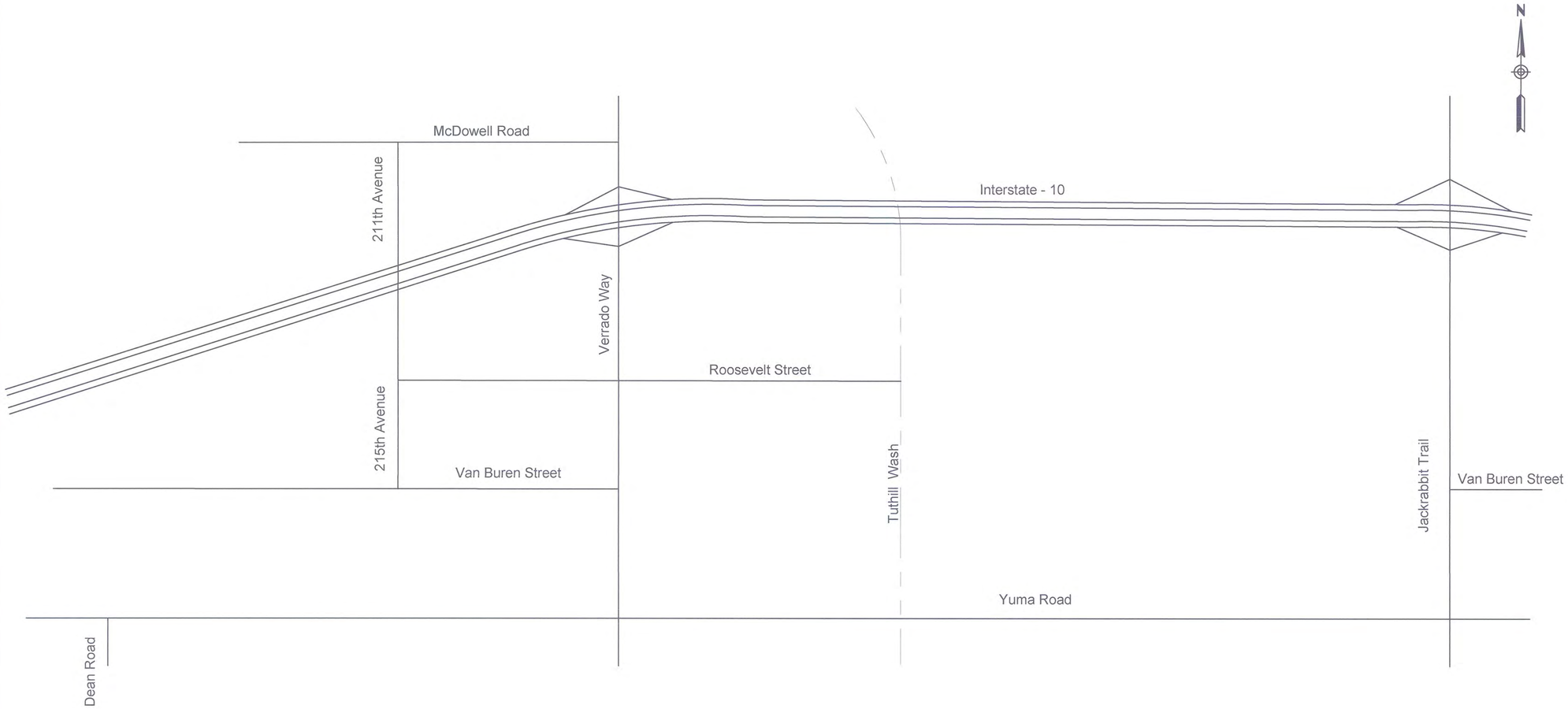
COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE	
12-27-2016	12-11-17	
PROJECT NUMBER	SHEET NUMBER	
2014-071	TS03	90 OF 125

PLOT DATE: Dec 11, 2017

FILE: P:\projects 2015\15046 - roosevelt id (buckeye)\design\cadd\dwg\215035-SG.dwg



SYMBOL LEGEND:	
	WORK ZONE
o	CHANNELIZING DEVICE
	SIGN ON SPRING STAND
	SIGN ON TWO EMBEDDED POSTS
⇨	DIRECTION OF TRAVEL

Jackrabbit Trail Existing Speed Limit	= 45 MPH
Verrado Way Existing Speed Limit	= 50 MPH

MAINTENANCE OF TRAFFIC – PHASE 1		
PHASE	CONSTRUCTION ACTIVITY	TRAFFIC CONTROL
1	Install advanced warning signing.	Install advanced warning signing per detail on sheet TC08 of traffic control plans.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION
SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3836 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
TRAFFIC CONTROL
PHASING / SEQUENCING - 1

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

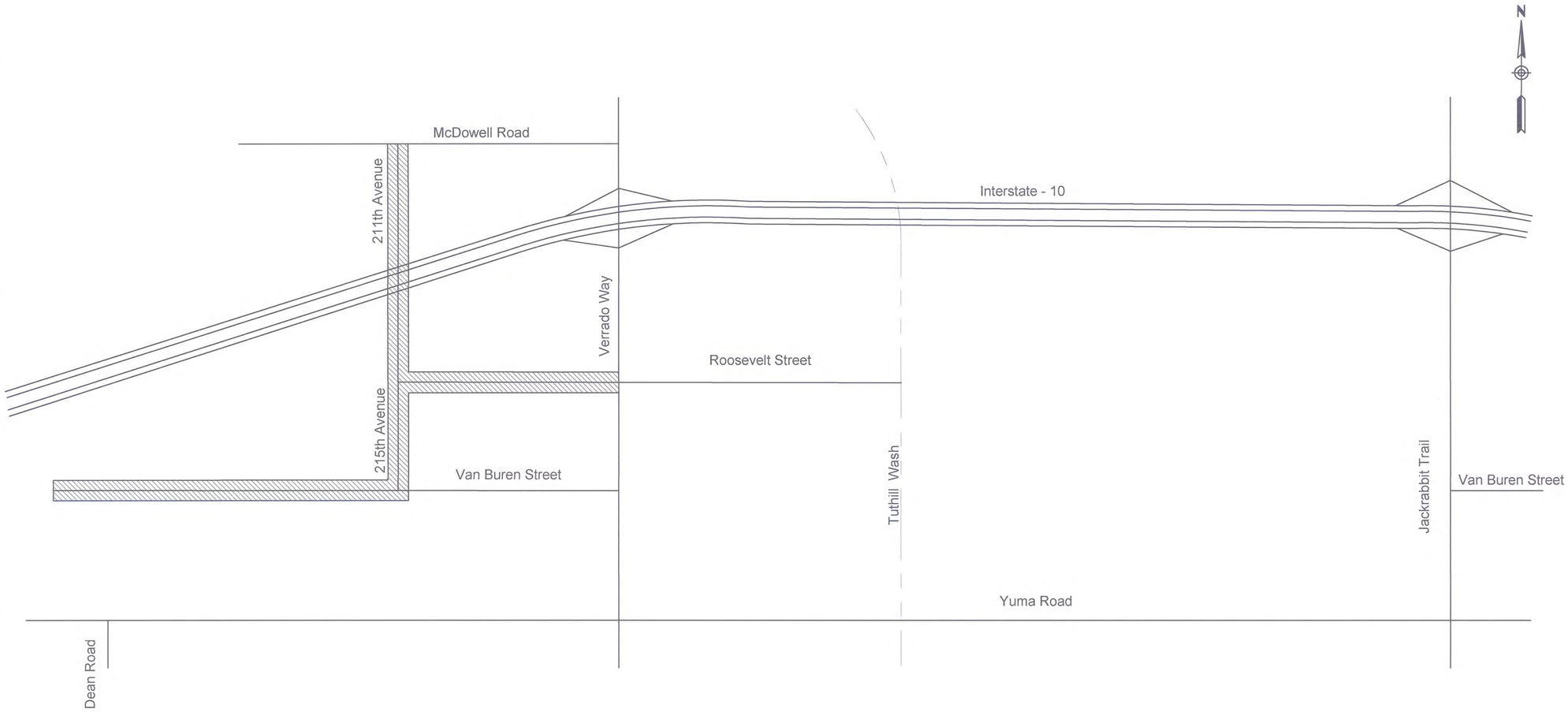
AS-BUILT SEAL

DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
32339
ANDREW R. SMIGIELSKI
Date Signed 12/11/17
ARIZONA, U.S.A.
Expires 3-31-19

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER 2014-071	SHEET NUMBER TC01

SUBMITTAL: 3RD SUBMITTAL
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

PLOT DATE: Dec 11, 2017
FILE: P:\projects 2015\15046 – roosevelt id (buckeye)\design\cadd\dwg\215035–TC.dwg



SYMBOL LEGEND:	
	WORK ZONE
○	CHANNELIZING DEVICE
	SIGN ON SPRING STAND
	SIGN ON TWO EMBEDDED POSTS
⇨	DIRECTION OF TRAVEL

MAINTENANCE OF TRAFFIC – PHASE 2		
PHASE	CONSTRUCTION ACTIVITY	TRAFFIC CONTROL
2	Construct roadway, water, and sewer improvements on Roosevelt Street between 215th Avenue and the Tuthill Wash. Construct roadway and sewer improvements on 211th Avenue and 215th Avenue between McDowell Road and Van Buren Street. Construct Van Buren Street roadway improvements between 215th Avenue and 221st Avenue. Construct and install new traffic signal equipment at Verrado Way and Roosevelt Street. Construct new sewer line under I–10 freeway.	Provide advance warning signing as shown on detail TC09. Close eastbound lane on McDowell Road when necessary to sawcut and tie in new roadway into McDowell Road. Use flaggers as necessary. See Figure 30 in the City of Phoenix Traffic Barricade Manual. Close Van Buren Street east of 215th Avenue. Close Power Way west of BUHSD LEARNING CENTER. See Figure 13 in the City of Phoenix Traffic Barricade Manual. Close outside lanes as necessary on Verrado Way and Roosevelt Street to construct new traffic signal equipment. See Figure 20 in the City of Phoenix Traffic Barricade Manual. No traffic control needed. Coordinate permit with ADOT.

Jackrabbit Trail Existing Speed Limit	= 45 MPH
Verrado Way Existing Speed Limit	= 50 MPH

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION
SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
TRAFFIC CONTROL
PHASING / SEQUENCING - 2

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
32339
ANDREW R. SMIGIELSKI
Date Signed 12/11/17
ARIZONA, U.S.A.
Expires 3–31–19

SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER 2014-071	SHEET NUMBER TC02

PLOT DATE: Dec 11, 2017

FILE: P:\projects 2015\15046 – roosevelt id (buckeye)\design\cadd\dwg\215035–TC.dwg

TRAFFIC CONTROL NOTES:

1. THE MAINTENANCE OF TRAFFIC TABLE REPRESENTS A SUGGESTED METHOD FOR TRAFFIC CONTROL DURING CONSTRUCTION. THE CONTRACTOR MAY PREPARE ANOTHER TRAFFIC CONTROL PLAN IN ACCORDANCE WITH SECTION 701 OF THE ADOT STANDARD SPECIFICATIONS. IF CONTRACTOR DEVIATES FROM THE MAINTENANCE OF TRAFFIC, THE CONTRACTOR SHALL DEVELOP A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE ADOT AND BUCKEYE SPECIFICATIONS. NO MEASUREMENT OR DIRECT PAYMENT FOR THE PLAN WILL BE MADE. THE COST BEING CONSIDERED AS INCLUDED IN THE PRICE OF CONTRACT ITEMS. ALL TRAFFIC CONTROL PLANS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER BEFORE BEGINNING CONSTRUCTION.
2. ADJUSTMENTS TO THE DETAILS OF THESE TRAFFIC CONTROL PLANS AND REQUIREMENTS MAY BE NECESSARY DUE TO CONSTRUCTION ACTIVITIES, AS DIRECTED AND APPROVED BY THE ENGINEER.
3. ALL EXISTING SIGNS IN CONFLICT WITH THE CONSTRUCTION SIGNS SHALL BE REMOVED, RELOCATED, OR COVERED IN PLACE, AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL STORE AND REINSTALL ITEMS WHICH HAVE BEEN REMOVED OR RELOCATED IN A MANNER APPROVED BY THE ENGINEER. THE COST SHALL BE INCLUDED IN THE PRICE OF CONTRACT ITEMS. ANY SIGN DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED AT NO COST TO THE DEPARTMENT.
4. ALL CONSTRUCTION SIGNS SHALL HAVE BLACK LETTERS ON AN ORANGE BACKGROUND, EXCEPT AS OTHERWISE NOTED.
5. THE RETRO–REFLECTIVE SHEETING ON ALL CONSTRUCTION SIGNS SHALL MEET CRITERIA ESTABLISHED IN SECTION 1007 OF ADOT STANDARD SPECIFICATIONS.
6. ALL ADVANCE WARNING SIGNS THAT ARE TO REMAIN FOR THE DURATION OF THE PROJECT SHALL BE MOUNTED ON SPRING STANDS. ALL SHORT–TERM SIGNS USED FOR INDIVIDUAL ACTIVITIES MAY BE INSTALLED ON PORTABLE SIGN STANDS (SPRING TYPE) AT LEAST 1 FOOT ABOVE THE PAVEMENT.
7. THE NEAREST EDGE OR CORNER OF A SIGN SHALL BE APPROXIMATELY 12 FEET FROM THE NEAREST EDGE OF PAVEMENT OR 2 FEET BEHIND SIDEWALK OR CURB FOR ALL SIGNS MOUNTED ON EMBEDDED POSTS.
8. FLAGS SHALL BE MOUNTED ON TOP OF ALL CONSTRUCTION SIGNS EXCEPT THE "END ROAD WORK THANK YOU" SIGN. TYPE "A" FLASHING WARNING LIGHTS SHALL BE REQUIRED ON ALL NIGHT–TIME CONSTRUCTION SIGNS EXCEPT THE "END ROAD WORK THANK YOU" SIGN.
9. VERTICAL PANELS, TYPE II BARRICADES OR DRUMS SHALL BE USED FOR CHANNELIZING DEVICES.
10. CHANNELIZING DEVICES FOR TAPERS SHALL BE AT A MAXIMUM SPACING OF 40 FEET ON CENTER. THE CHANNELIZING DEVICES ON TANGENTS SHALL BE AT A MAXIMUM SPACING OF 80 FEET ON CENTER.
11. A TYPE "C" STEADY–BURNING YELLOW LIGHT SHALL BE MOUNTED ON EVERY BARRICADE ON TAPERS AND ALONG TANGENT SECTIONS.
12. TEMPORARY TRAFFIC CONTROL DEVICES FOR DAILY WORK ACTIVITIES SHALL BE PLACED DURING THE ONE HOUR PERIOD IMMEDIATELY PRIOR TO THE WORK SHIFT AND REMOVED DURING THE ONE HOUR PERIOD IMMEDIATELY FOLLOWING THE WORK SHIFT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
13. WHEN NO CLOSURE IS NECESSARY BUT WHERE THERE IS CONSTRUCTION ALONGSIDE A ROADWAY UNDER CONSTRUCTION, THE CONTRACTOR SHALL PLACE 48 INCH X 48 INCH "ROAD WORK AHEAD" AND "SHOULDER WORK AHEAD" SIGNING AS DIRECTED BY THE ENGINEER TO ALERT THE PUBLIC TO THE CONSTRUCTION ACTIVITIES.
14. WHEN TRAFFIC CONTROL ITEMS ARE NOT IN USE, THE CONTRACTOR SHALL REMOVE THESE ITEMS TO A LOCATION AT LEAST 30 FEET FROM THE EDGE OF THE PAVED ROADWAY. THIS INCLUDES ALL SUPPORTS WITHOUT SIGN PANELS. ANY SIGNS WHICH ARE NOT IN USE BUT WHICH CANNOT BE MOVED AT LEAST 30 FEET FROM THE ROADWAY SHALL BE COVERED SO THE PUBLIC CANNOT READ THE LEGENDS.
15. THE CONTRACTOR SHALL ABIDE BY THE TRAFFIC CONTROL REQUIREMENTS CONTAINED IN SUBSECTION 104.04 "MAINTENANCE OF TRAFFIC" OF THE ADOT STANDARD SPECIFICATION.
16. IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL TEMPORARY AND PERMANENT MARKINGS, THE CONTRACTOR SHALL CLEAN AND DRY THE ROADWAY SURFACE TO THE SATISFACTION OF THE ENGINEER BY SWEEPING AND AIR–JET BLOWING, THE COST BEING CONSIDERED AS INCLUDED IN THE PRICE OF CONTRACT ITEMS.
17. TEMPORARY STRIPING SHALL BE STANDARD REFLECTORIZED TRAFFIC PAINT UNLESS OTHERWISE NOTED ON PLANS.
18. WHERE STRIPING OBLITERATION IS NECESSARY, IT SHALL BE ACCOMPLISHED BY APPROVED METHODS. PAINTING OVER STRIPING, REMOVAL OF PAVEMENT, AND OVERLAYING PAVEMENT DOES NOT CONSTITUTE STRIPE OBLITERATION. THERE SHALL BE NO MEASUREMENT OR PAYMENT FOR THE REMOVAL OF EXISTING PAVEMENT MARKERS.
19. SPEED LIMIT SIGNING IS PRELIMINARY AND IS SUBJECT TO REVIEW AND CHANGE BY THE ENGINEER AS DICTATED BY FIELD CONDITIONS.
20. CONSTRUCTION SIGNS SHALL NOT BE DISPLAYED TO TRAFFIC MORE THAN 24 HOURS PRIOR TO THE ACTUAL START OF CONSTRUCTION. THESE SIGNS MAY BE INSTALLED SOONER BUT THEY MUST BE COVERED OR TURNED AWAY FROM TRAFFIC. THE COST FOR COVERING OR TURNING THEM SHALL BE CONSIDERED PART OF THE SIGN INSTALLATION COST. NO FURTHER COMPENSATION WILL BE MADE. THESE SIGNS SHALL BE REMOVED WITHIN 24 HOURS AFTER THE COMPLETION OF CONSTRUCTION ACTIVITIES.
21. THE CONTRACTOR SHALL MAINTAIN TRAFFIC ON PAVED SURFACES AT ALL TIMES.
22. ALL DRAWINGS ARE SCHEMATIC ONLY AND ARE NOT TO SCALE.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION
SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
TRAFFIC CONTROL NOTES

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO. 32339
ANDREW R. SMIGIELSKI
Date Signed 12-11-17
ARIZONA, U.S.A.
Expires 3–31–19

COB PLAN TRACKING # ENG-16-00003

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER TC03
93 OF 125

COB PERMIT #

PLOT DATE: Dec 11, 2017

FILE: P:\projects 2015\15046 – roosevelt ld (buckeye)\design\cadd\dwg\215035–TC.dwg

APPROXIMATE TRAFFIC CONTROL QUANTITIES – PHASE 1

ELEMENT OF WORK	UNIT	PHASE 1 (DURATION DAYS 90*)	TOTAL
BARRICADE (TYPE III, HIGH LEVEL FLAG TREES)	EACH–DAY	360	360
PORTABLE SIGN STANDS (SPRING TYPE)	EACH–DAY	720	720
WARNING LIGHTS (TYPE A)	EACH–DAY	360	360
WARNING LIGHTS (TYPE C)	EACH–DAY	720	720
TEMPORARY SIGN (LESS THAN 10 SF)	EACH–DAY	180	180
TEMPORARY SIGN (10 SF OR GREATER)	EACH–DAY	720	720

* ESTIMATED CALENDAR DAYS

** TRAFFIC CONTROL QUANTITIES FOR ADVANCED SIGNING ARE FOR 90 CALENDAR DAYS.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION

SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT
TRAFFIC CONTROL QUANTITIES
PHASE 1

ENGINEER INFORMATION

RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO.
32339
ANDREW R. SMIGIELSKI
Date Signed 12-11-17
ARIZONA, U.S.A.
Expires 3–31–19

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER	
2014-071	TC04	94 OF 125

SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

PLOT DATE: Dec 11, 2017

FILE: P:\projects 2015\15046 – roosevelt id (buckeye)\design\cadd\dwg\215035–TC.dwg

APPROXIMATE TRAFFIC CONTROL QUANTITIES – PHASE 2

ELEMENT OF WORK	UNIT	PHASE 2 DURATION DAYS 90*	TOTAL
BARRICADE (TYPE II, VERT PANEL)	EACH–DAY	1800	1800
BARRICADE (TYPE III, HIGH LEVEL FLAG TREES)	EACH–DAY	240	240
PORTABLE SIGN STANDS (SPRING TYPE)	EACH–DAY	360	360
WARNING LIGHTS (TYPE A)	EACH–DAY	180	180
WARNING LIGHTS (TYPE C)	EACH–DAY	480	480
TEMPORARY SIGN (LESS THAN 10 SF)	EACH–DAY	120	120
TEMPORARY SIGN (10 SF OR GREATER)	EACH–DAY	360	360
FLAGGING SERVICES (CIVILIAN)	HOUR	64	64

* ESTIMATED CALENDAR DAYS

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION

SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT
TRAFFIC CONTROL QUANTITIES
PHASE 2

ENGINEER INFORMATION

RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
32339
ANDREW R. SMIGIELSKI
Date Signed 12-11-17
ARIZONA, U.S.A.
Expires 3–31–19

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER 2014-071

SHEET NUMBER TC05

SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

PLOT DATE: Dec 11, 2017

FILE: P:\projects 2015\15046 – roosevelt ld (buckeye)\design\cadd\dwg\215035-TC.dwg

MAINTENANCE OF TRAFFIC

PHASE	CONSTRUCTION ACTIVITY	TRAFFIC CONTROL	REMARKS
1	Install advanced warning signing.	Install advanced warning signing per detail on sheet TC08 of traffic control plans.	Signs are to remain for the duration of the work.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION

SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT
MAINTENANCE OF TRAFFIC
PHASE 1

ENGINEER INFORMATION

RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
32339
ANDREW R. SMIGIELSKI
Date Signed 12-11-17
ARIZONA, U.S.A.
Expires 3-31-19

ORIGINAL PLAN DATE 12-27-2016

LATEST REVISION DATE 12-11-17

PROJECT NUMBER 2014-071

SHEET NUMBER TC06

SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

PLOT DATE: Dec 11, 2017
FILE: P:\projects 2015\15046 - roosevelt id (buckeye)\design\cadd\dwg\215035-TC.dwg

MAINTENANCE OF TRAFFIC – PHASE 2

PHASE	CONSTRUCTION ACTIVITY	TRAFFIC CONTROL	REMARKS
2	Construct roadway, water, and sewer improvements on Roosevelt Street between 215th Avenue and the Tuthill Wash. Construct roadway and sewer improvements on 211th Avenue and 215th Avenue between McDowell Road and Van Buren Street. Construct Van Buren Street roadway improvements between 215th Avenue and 221st Avenue. Construct and install new traffic signal equipment at Verrado Way and Roosevelt Street. Construct new sewer line under I–10 freeway.	Provide advance warning signing as shown on detail TC09. Close eastbound lane on McDowell Road when necessary to sawcut and tie in new roadway into McDowell Road. Use flaggers as necessary. See Figure 30 in the City of Phoenix Traffic Barricade Manual. Close Van Buren Street east of 215th Avenue. Close Power Way west of BUHSD LEARNING CENTER. See Figure 13 in the City of Phoenix Traffic Barricade Manual. Close outside lanes as necessary on Verrado Way and Roosevelt Street to construct new traffic signal equipment. See Figure 20 in the City of Phoenix Traffic Barricade Manual. No traffic control needed. Coordinate permit with ADOT.	Maintain at least one access to existing adjacent businesses at all times.

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION

SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT
MAINTENANCE OF TRAFFIC
PHASE 2

ENGINEER INFORMATION

RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

32339
ANDREW R. SMIGIELSKI
ARIZONA, U.S.A.
Expires 3–31–19

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER	
2014-071	TC07	97 OF 125

SUBMITTAL: 3RD SUBMITTAL

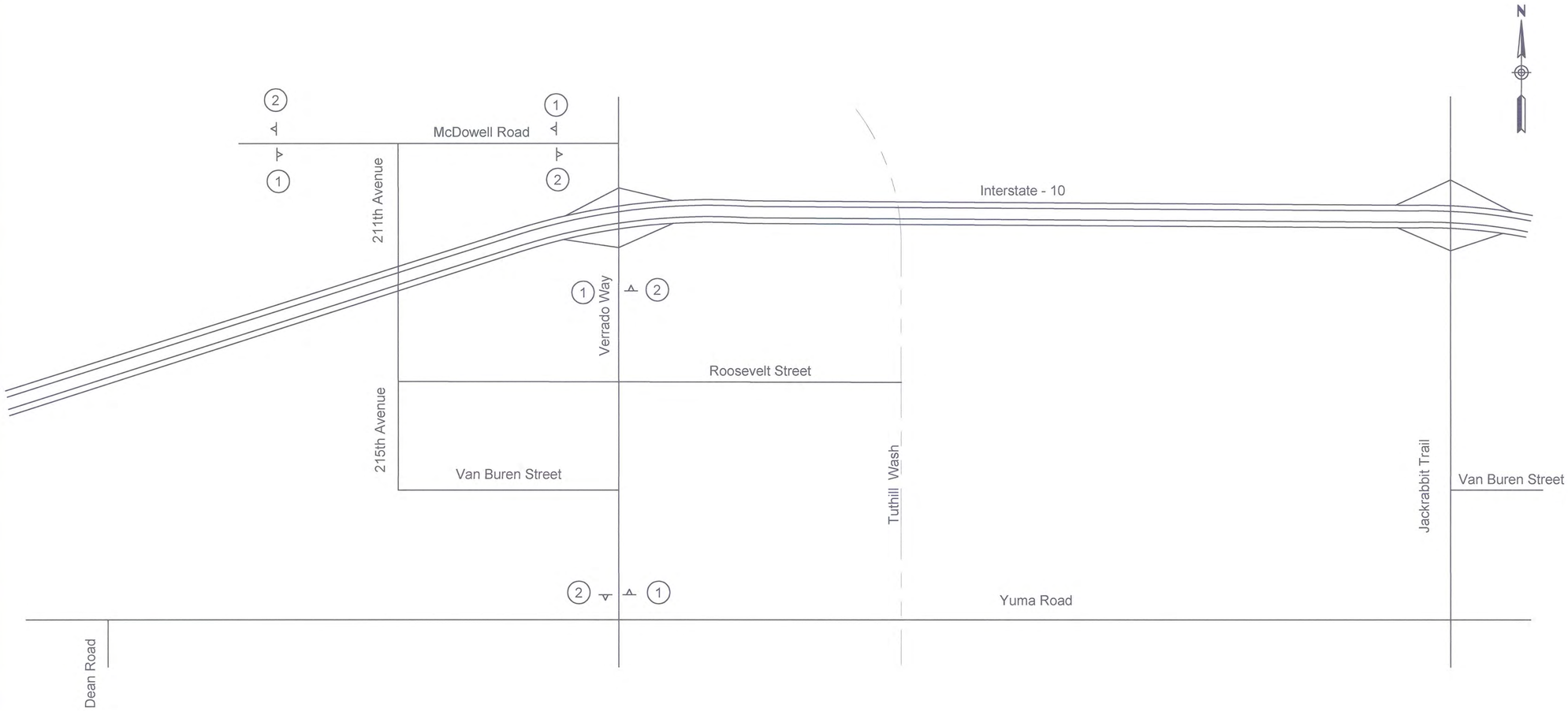
COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

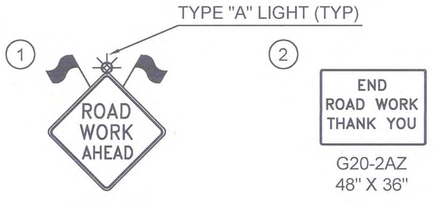
Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

PLOT DATE: Dec 11, 2017

FILE: P:\projects 2015\15046 – roosevelt id (buckeye)\design\cadd\dwg\215035-TC.dwg



SIGN LEGEND:



W20-1aAZ
48" X 48"

G20-2AZ
48" X 36"

Roosevelt Street Existing Speed Limit	= 35 MPH
Jackrabbit Trail Existing Speed Limit	= 45 MPH
Verrado Way Existing Speed Limit	= 50 MPH

ADVANCE WARNING SIGNS

THE ABOVE SIGNS SHALL BE IN PLACE FOR THE DURATION OF THE PROJECT. REFER TO MAINTENANCE OF TRAFFIC TABLE FOR MORE INFORMATION ON TRAFFIC CONTROL SIGNING FOR THE INDIVIDUAL ACTIVITIES.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SYMBOL LEGEND:	
	WORK ZONE
○	CHANNELIZING DEVICE
	SIGN ON SPRING STAND
	SIGN ON TWO EMBEDDED POSTS
⇨	DIRECTION OF TRAVEL

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION
SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ADVANCE WARNING SIGNS
PHASE 1

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
Registered Professional Engineer (Civil)
32339
ANDREW R. SMIGIELSKI
Date Signed 12/11/17
ARIZONA, U.S.A.
Expires 3-31-19

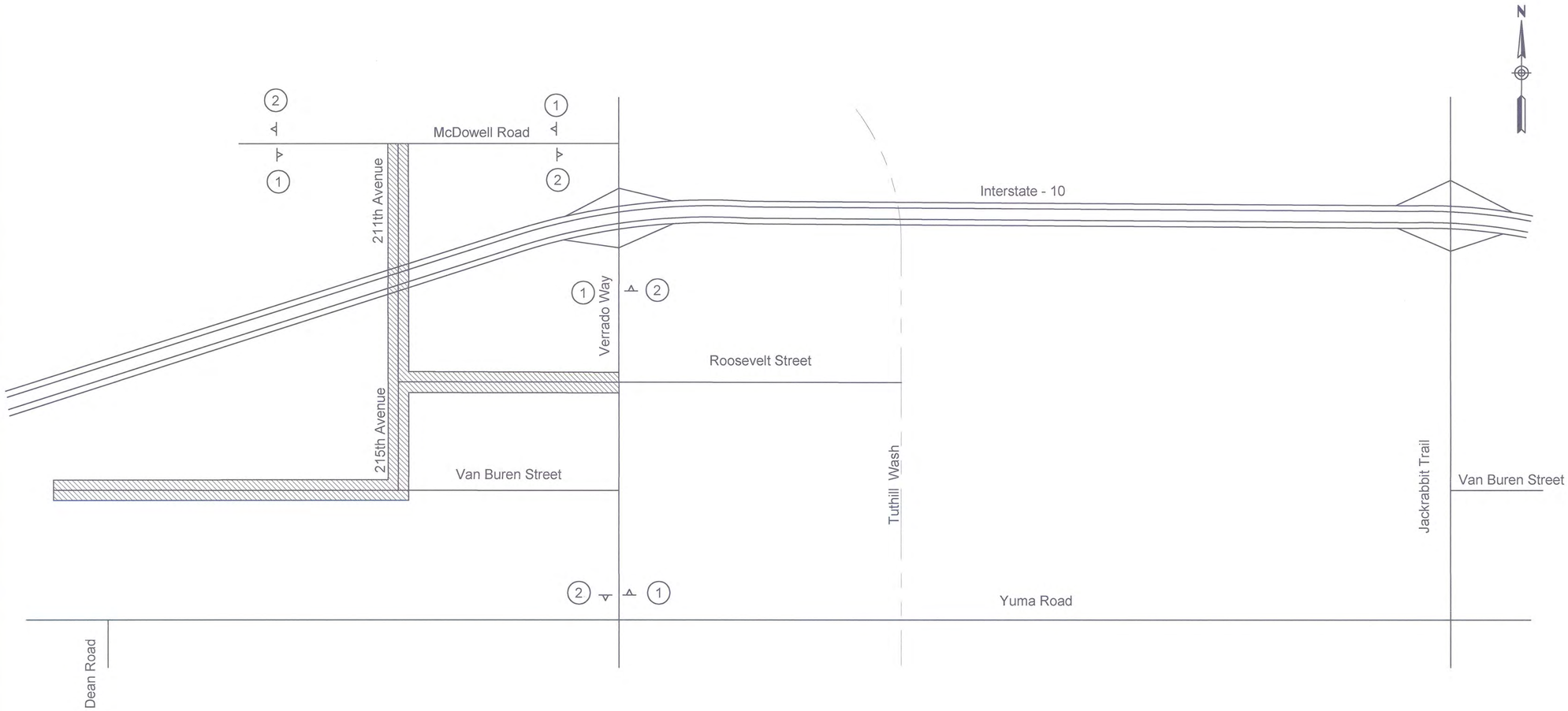
COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE 12-27-2016
LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071
SHEET NUMBER TC08
98 OF 125

PLOT DATE: Dec 11, 2017

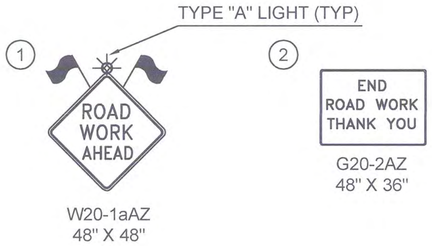
FILE: P:\projects 2015\15046 – roosevelt id (buckeye)\design\cadd\dwg\215035-TC.dwg



SYMBOL LEGEND:	
	WORK ZONE
o	CHANNELIZING DEVICE
	SIGN ON SPRING STAND
	SIGN ON TWO EMBEDDED POSTS
⇨	DIRECTION OF TRAVEL

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

SIGN LEGEND:



W20-1aAZ
48" X 48"

G20-2AZ
48" X 36"

Roosevelt Street Existing Speed Limit	= 35 MPH
Jackrabbit Trail Existing Speed Limit	= 45 MPH
Verrado Way Existing Speed Limit	= 50 MPH

ADVANCE WARNING SIGNS

THE ABOVE SIGNS SHALL BE IN PLACE FOR THE DURATION OF THE PROJECT. REFER TO MAINTENANCE OF TRAFFIC TABLE FOR MORE INFORMATION ON TRAFFIC CONTROL SIGNING FOR THE INDIVIDUAL ACTIVITIES.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

TRAFFIC ENGINEER INFORMATION
SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ADVANCE WARNING SIGNS
PHASE 2

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
32339
ANDREW R. SMIGIELSKI
Date Signed 12-11-17
ARIZONA, U.S.A.
Expires 3-31-19

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER 2014-071
SHEET NUMBER TC09

SUBMITTAL: 3RD SUBMITTAL
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

PLOT DATE: Dec 11, 2017

FILE: P:\projects 2015\15046 - roosevelt id (buckeye)\design\cadd\dwg\215035-TC.dwg

CITY OF BUCKEYE SIGNING AND STRIPING NOTES

1. THE CITY ENGINEER'S OFFICE SHALL BE NOTIFIED 48 HOURS PRIOR TO STARTING ANY SIGNING OR STRIPING WORK. (623) 547-4661 ATTENTION BRETT HUSKEY.
2. PERMANENT THERMOPLASTIC STRIPING SHALL NOT BE PLACED ANY EARLIER THAN 30 DAYS AFTER THE PERMANENT PAVEMENT HAS BEEN PLACED. A TEMPORARY PAINT SHALL BE USED AS AN INTERIM STRIPING. IF TEMPORARY PAINT IS USED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE TEMPORARY STRIPING UNTIL THE PERMANENT THERMOPLASTIC HAS BEEN PLACED.
3. UNLESS OTHERWISE SPECIFIED, ALL PAVEMENT MARKING AND TRAFFIC CONTROL SIGNING INSTALLATIONS AND REMOVALS SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF BUCKEYE AND AS SET FORTH IN THE ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) STANDARD DRAWINGS, DETAILS AND SPECIFICATIONS OR THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) LATEST EDITION, OR AASHTO REQUIREMENTS, AS APPLICABLE. SIGN REQUIREMENTS, GUIDELINES AND WARRANTS SHALL BE IN ACCORDANCE WITH THE MUTCD MOST CURRENT EDITION.
4. PRIOR TO PAVEMENT MARKING INSTALLATION THE CONTRACTOR SHALL SUBMIT MATERIAL CERTIFICATIONS WITH MATERIAL SUBMITTALS FOR ALL MARKING MATERIALS CERTIFYING THROUGH SUPPLIER LAB ANALYSIS THAT ALL PAINT AND THERMOPLASTICS ARE FREE FROM ANY LEAD BASED MATERIALS/COMPONENTS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF THE PERMANENT PAVEMENT MARKINGS FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN 50 FEET APART ALONG THE LINES TO BE STRIPED. PAVEMENT MARKING DIMENSIONS ARE TO CENTER OF THE STRIPE FOR SINGLE LINE STRIPING, AND TO THE CENTER OF THE SPACE BETWEEN THE TWO LINES FOR DOUBLE LINE STRIPING. WHERE CURB AND GUTTER IS PRESENT, DIMENSIONS ARE TO BACK OF CURB.
6. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER'S OFFICE FOR FIELD REVIEW OF LAYOUT PRIOR TO ANY STRIPING OR MARKINGS OF ANY KIND. ANY STRIPING COMPLETE PRIOR TO CITY ENGINEER'S OFFICE REVIEW MAY BE SUBJECT TO REMOVAL, RE-LAYOUT AND RESTRIPING AT THE CONTRACTORS EXPENSE.
7. THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY AND NOT TO SCALE. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, NOTES, DETAILS AND STANDARDS WHEN INSTALLING PAVEMENT STRIPING, MARKINGS AND MARKERS.
8. TEMPORARY TRAFFIC CONTROL SHALL CONFORM TO THE CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL", THE MUTCD AND/OR AS DIRECTED BY THE CITY.
9. UNLESS OTHERWISE DIRECTED, ALL FINAL LOCATION LANE STRIPING INCLUDING CROSSWALKS AND STOP BARS SHALL BE THERMOPLASTIC MATERIAL APPLIED AT A MINIMUM THICKNESS OF 60 MILS FOR LANE STRIPING AND 90 MILS FOR CROSSWALKS AND STOP BARS. ALL PAVEMENT SYMBOLS ARROWS, AND LETTERING SHALL BE THERMOPLASTIC, TYPE 1 (PERMANENT) PREFORMED PAVEMENT MARKINGS. COLD TAPE MAY BE ALLOWED SUBJECT TO WRITTEN REQUEST BY THE CONTRACTOR AND APPROVAL BY THE CITY ENGINEER. TEMPORARY PAVEMENT MARKINGS SHALL BE REFLECTORIZED TRAFFIC PAINT. TEMPORARY STRIPING OR HALF-STREET ROADWAY STRIPING SHALL BE PAINT.
10. ALL SIGNS SHALL CONFORM TO THE MUTCD AND SHALL BE MADE FROM 0.080 INCH THICK ALUMINUM. SIGN POSTS AND EXTENSIONS SHALL BE GALVANIZED SQUARE PREFORMED STEEL TUBING PER TOWN STANDARDS. HEIGHT REQUIREMENTS PER THE MUTCD.
11. ALL TRAFFIC CONTROL SIGN FACES SHALL BE CONSTRUCTED TO THE CITY OF BUCKEYE PERFORMANCE SPECIFICATIONS.
12. ALL SIGNS SHALL HAVE A MINIMUM CLEARANCE FROM THE EDGE OF SIGN TO THE FACE OF THE CURB OF AT LEAST TWO (2) FEET; OR IF NO CURB EXISTS, IT SHALL BE AT LEAST TWELVE (12) FEET FROM THE EDGE OF THE PAVEMENT. ALL SIGNS SHALL BE PLACED SO AS NOT TO INTERFERE WITH PEDESTRIAN MOVEMENT.
13. ANY TRAFFIC CONTROL SIGNAGE, INCLUDING STREET NAME SIGNS, WHICH MAY BE LOCATED WITHIN 10 FEET OF AN EXISTING STREET LIGHT POLE, MAY BE MOUNTED TO THE POLE BY STAINLESS STEEL BANDING WITH APPROVAL FROM THE CITY. SIGN LOCATIONS AND OFFSETS MAY BE ADJUSTED BY THE CITY TO IMPROVE VISIBILITY.
14. ALL CONCRETE MEDIAL CURB NOSES SHALL BE PAINTED WITH YELLOW REFLECTIVE SAFETY PAINT FROM THE FRONT OF THE BULL NOSE BACK 10 FEET WITH YELLOW OR (WHERE APPLICABLE) WHITE TYPE G RAISED PAVEMENT MARKERS ON BULL NOSE CURB HEADS SUBJECT TO FIELD REVIEW AND FINAL ACCEPTANCE FOR MARKERS.
15. ALL RAISED PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH ADOT STANDARD DRAWINGS M-19.
16. ANY EXISTING SIGN THAT IS REQUIRED TO BE RELOCATED BY THE CONTRACTOR SHALL BE REMOVED, PROTECTED AND STORED FOR REINSTALLATION BY THE CONTRACTOR. DAMAGED SIGNAGE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY EXISTING SIGNS REQUIRED TO BE PERMANENTLY REMOVED BY THE CONTRACTOR SHALL BE SALVAGED FOR RETURN TO THE CITY.
17. THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKING AND STRIPING IN CONFLICT WITH THE FINAL STRIPING PLAN BY ULTRA HIGH PRESSURE WATER (36,000PSI) OR BY SAND BLASTING. ALL REMOVAL METHODS SHALL BE DONE IN CONFORMANCE WITH EPA REQUIREMENTS. PAVEMENT SCARRING SHALL BE SUBSEQUENTLY REPAIRED WITH AN APPROPRIATE ASPHALT EMULSION, SLURRY SEAL OR MICRO PAVING APPROVED BY THE CITY ENGINEER.
18. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE CITY BY POWER BROOM, STREET SWEEPING, AIR JET BLOWING AND/OR WATER JET/TRUCK PRIOR TO PLACEMENT OF ALL PAVEMENT MARKINGS. THE ROAD PAVEMENT SURFACE SHALL BE ABSOLUTELY DRY. THE AIR AND PAVEMENT TEMPERATURES SHALL NOT BE LESS THAN 55 DEGREES F AND 61 DEGREES F FOR THE PLACEMENT OF THERMOPLASTIC MARKING TYPE 1 MARKING TAPE, RESPECTIVELY. TEMPERATURES VALUES SHALL BE CONSIDERED RISING AND TAKEN WITHIN THE SHADE.
19. STREET NAME SIGNS LOCATED AT ALL COLLECTOR AND ARTERIAL INTERSECTIONS SHALL HAVE BLOCK NUMBERS. BLOCK NUMBERS SHALL BE ASSIGNED BY THE CITY'S BUILDING DEPARTMENT. BLOCK NUMBERS SHALL BE INSTALLED PER CITY REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE MATERIAL CUT SHEETS OF THE SIGN PANELS FOR REVIEW BY THE CITY ENGINEER'S OFFICE PRIOR TO INSTALLATION.

STRIPING LEGEND

4BW40	4" BROKEN WHITE LINE WITH TYPE "G" RPMS @ 40' SPACING
4DY40	4" SOLID DOUBLE YELLOW LINE WITH TYPE 'D' RPM'S @ 40' SPACING
4DY80	4" DOUBLE YELLOW WITH TYPE 'D' RPM'S @ 80' SPACING
4SW40	4" SOLID WHITE WITH TYPE 'G' RPM'S @ 40' SPACING
4SW20	4" SOLID WHITE WITH TYPE 'G' RPM'S @ 20' SPACING
6DTW	6" DASHED THRU INTERSECTION WHITE LINE WITH A 2' LINE SEGMENT AND A 4' GAP
8SW20	8" SOLID WHITE LINE WITH TYPE 'G' RPM'S @ 20' SPACING
8SW40	8" SOLID WHITE LINE WITH TYPE 'G' RPM'S @ 40' SPACING
8SY	8" SOLID YELLOW LINE
8SW80	8" SOLID WHITE LINE WITH TYPE 'G' RPM'S @ 80' SPACING
12SW	12" SOLID WHITE LINE
12SY	12" SOLID YELLOW LINE
24SW	24" SOLID WHITE LINE

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION
SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3638 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
SIGNING AND MARKING PLAN
NOTES AND LEGEND

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
32339
ANDREW R. SMIGIELSKI
Date Signed 12-11-17
ARIZONA, U.S.A.
Expires 3-31-19

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER	
2014-071	SM01	100 OF 125

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

PLOT DATE: Dec 11, 2017

FILE: P:\projects 2015\15046 - roosevelt ld (buckeye)\design\cadd\dwg\215035-SM01.dwg

SIGNING SUMMARY

STA.	SIGN CODE	NEW	WORK EXISTING RELOCATE	WORK EXISTING REMOVE & SALVAGE	WORK EXISTING SEE REMARKS	OFFSET FROM ML Lt (ft)	OFFSET FROM ML Rt (ft)	PANEL LEGEND	PANEL SIGN SIZE WIDTH (in)	PANEL SIGN SIZE HEIGHT (in)	SHEETING TYPE AREA (sq. ft.) E	SHEETING TYPE AREA (sq. ft.) H	SHEETING TYPE AREA (sq. ft.) D	GROUND MOUNT POSTS NO. POSTS	GROUND MOUNT POSTS TYPE (length) P (ft)	GROUND MOUNT POSTS TYPE (length) U (ft)	GROUND MOUNT FOUNDATIONS P (ea)	GROUND MOUNT FOUNDATIONS U (ea)	REMARKS
E 7+65	OM3-R	X					28	OBJECT MARKER	12	36			3	1	12		1		
E 13+00	R2-1-45	X					2	SPEED LIMIT 45	24	30			5	1	12		1		
E 31+00	R2-1-45	X					2	SPEED LIMIT 45	24	30			5	1	12		1		
E 44+00	W3-1	X					2	STOP AHEAD	36	36			9	1	12		1		
E 46+08	D3-1	X					2	215th AVE	36	12			3	1	12		1		
	R1-1-36	X						STOP	36	36			9						
E 47+15	W1-6L	X						ONE DIRECTION LARGE ARROW	48	24			8						ON BARRICADE
	OM4-1	X						OBJECT MARKER	18	18			3						
	OM4-1	X						OBJECT MARKER	18	18			3						
W 44+00	R2-1-45	X				54		SPEED LIMIT 45	24	30			5	1	12		1		
W 31+00	R2-1-45	X				54		SPEED LIMIT 45	24	30			5	1	12		1		
W 18+00	R2-1-35	X				54		SPEED LIMIT 35	24	30			5	1	12		1		
W 7+36	OM3-R	X				34		OBJECT MARKER	12	36			3	1	12		1		
																			TOTAL

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION

SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

VAN BUREN STREET
SIGN SUMMARY TABLE

ENGINEER INFORMATION

RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL

Registered Professional Engineer (Civil)
32339
ANDREW R. SMIGIELSKI
Date Signed 12/11/17
ARIZONA, U.S.A.
Expires 3-31-19

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE 12-27-2016

LATEST REVISION DATE 12-11-17

PROJECT NUMBER 2014-071

SHEET NUMBER SM02

PLOT DATE: Dec 11, 2017

FILE: P:\projects 2015\15046 - roosevelt id (buckeye)\design\cadd\dwg\215035-SM02.dwg

SIGNING SUMMARY

STA.	SIGN CODE	NEW	WORK: EXISTING: RELOCATE	WORK: EXISTING: REMOVE & SALVAGE	WORK: EXISTING: SEE REMARKS	OFFSET FROM ML: Lt (ft)	OFFSET FROM ML: Rt (ft)	PANEL: LEGEND	PANEL: SIGN SIZE: WIDTH (in)	PANEL: SIGN SIZE: HEIGHT (in)	PANEL: SHEETING TYPE AREA (sq. ft.): E	PANEL: SHEETING TYPE AREA (sq. ft.): H	PANEL: SHEETING TYPE AREA (sq. ft.): D	GROUND MOUNT: POSTS: NO. POSTS	GROUND MOUNT: POSTS: TYPE (length): P (ft)	GROUND MOUNT: POSTS: TYPE (length): U (ft)	GROUND MOUNT: FOUNDATIONS: P (ea)	GROUND MOUNT: FOUNDATIONS: U (ea)	REMARKS
N 11+00	R8-3	X					52	NO PARKING	30	30			6	1	12		1		
N 12+86	R2-1-35	X						SPEED LIMIT 35	24	30			5						ON LIGHT POLE
N 14+70	R8-3	X						NO PARKING	30	30			6						ON LIGHT POLE
N 16+70	R8-3	X						NO PARKING	30	30			6						ON LIGHT POLE
N 18+70	R3-8SR	X						THRU | RIGHT ONLY	30	30			6						ON LIGHT POLE
N 20+70	S-1-1	X						SCHOOL SIGN	36	36			9						ON LIGHT POLE
N 25+00	R8-3	X					51	NO PARKING	30	30			6	1	12		1		
N 27+00	R2-1-35	X					51	SPEED LIMIT 35	24	30			5	1	12		1		
N 28+00	R8-3	X					51	NO PARKING	30	30			6	1	12		1		
N 34+00	W3-1	X					13	STOP AHEAD	36	36			9	1	12		1		
N 36+01	D3-1	X					13	ROOSEVELT ST.	60	12			5	1	12		1		
	R1-1-30	X						STOP	30	30			7						
N 36+18	W1-6R	X						ONE DIRECTION LARGE ARROW	48	24			8						ON BARRICADE
	OM4-1	X						OBJECT MARKER	18	18			3						
	OM4-1	X						OBJECT MARKER	18	18			3						
																			TOTAL

SIGNING SUMMARY

STA.	SIGN CODE	NEW	WORK: EXISTING: RELOCATE	WORK: EXISTING: REMOVE & SALVAGE	WORK: EXISTING: SEE REMARKS	OFFSET FROM ML: Lt (ft)	OFFSET FROM ML: Rt (ft)	PANEL: LEGEND	PANEL: SIGN SIZE: WIDTH (in)	PANEL: SIGN SIZE: HEIGHT (in)	PANEL: SHEETING TYPE AREA (sq. ft.): E	PANEL: SHEETING TYPE AREA (sq. ft.): H	PANEL: SHEETING TYPE AREA (sq. ft.): D	GROUND MOUNT: POSTS: NO. POSTS	GROUND MOUNT: POSTS: TYPE (length): P (ft)	GROUND MOUNT: POSTS: TYPE (length): U (ft)	GROUND MOUNT: FOUNDATIONS: P (ea)	GROUND MOUNT: FOUNDATIONS: U (ea)	REMARKS
S 34+00	R2-1-35	X				54		SPEED LIMIT 35	24	30			5	1	12		1		
S 28+50	S-1-1	X				54		SCHOOL SIGN	36	36			9	1	12		1		
S 21+00	R2-1-35	X				54		SPEED LIMIT 35	24	30			5	1	12		1		
S 14+64	R3-5R	X				54		RIGHT ONLY	30	36			7.5	1	12		1		
S 13+00	W3-1	X				54		STOP AHEAD	36	36			9	1	12		1		
S 10+77	D3-1	X				56		VAN BUREN ST	36	12			3	1	12		1		
	R1-1-30	X						STOP	30	30			7						
S 36+38	W1-6R	X						ONE DIRECTION LARGE ARROW	48	24			8						ON BARRICADE
	OM4-1	X						OBJECT MARKER	18	18			5						
	OM4-1	X						OBJECT MARKER	18	18			5						
W 24+36	D3-1	X						215th AVE	36	12			3						ON LIGHT POLE
	R1-1-30	X						STOP	30	30			7						
W 24+17	W1-7	X				54		TWO-DIRECTIONAL ARROW	48	24			8	2	27		2		
	OM4-1	X						OBJECT MARKER	18	18			3						
	OM4-1	X						OBJECT MARKER	18	18			3						
																			TOTAL

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION

SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

215TH AVENUE
SIGN SUMMARY TABLE

ENGINEER INFORMATION

RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 32339 ANDREW R. SMIGIELSKI DATE SIGNED 12-11-17 ARIZONA, U.S.A.

Expires 3-31-19

ORIGINAL PLAN DATE 12-27-2016

LATEST REVISION DATE 12-11-17

PROJECT NUMBER 2014-071

SHEET NUMBER SM03

SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

PLOT DATE: Dec 11, 2017

FILE: P:\projects 2015\15046 - roosevelt id (buckeye)\design\cadd\dwg\215035-SM03.dwg

SIGNING SUMMARY

STA.	SIGN CODE	NEW	WORK: EXISTING: RELOCATE	WORK: EXISTING: REMOVE & SALVAGE	WORK: EXISTING: SEE REMARKS	OFFSET FROM ML: Lt (ft)	OFFSET FROM ML: Rt (ft)	PANEL: LEGEND	PANEL: SIGN SIZE: WIDTH (in)	PANEL: SIGN SIZE: HEIGHT (in)	PANEL: SHEETING TYPE AREA (sq. ft.): E	PANEL: SHEETING TYPE AREA (sq. ft.): H	PANEL: SHEETING TYPE AREA (sq. ft.): D	GROUND MOUNT: NO. POSTS	GROUND MOUNT: POSTS: TYPE (length): P (ft)	GROUND MOUNT: POSTS: TYPE (length): U (ft)	GROUND MOUNT: FOUNDATIONS: P (ea)	GROUND MOUNT: FOUNDATIONS: U (ea)	REMARKS
E 37+00	R2-1-45	X				2		SPEED LIMIT 45	24	30			5	1	12		1		
E 46+62	OM3-R	X					2	OBJECT MARKER	12	36			3	1	12		1		
E 50+00	R2-1-45	X					2	SPEED LIMIT 45	24	30			5	1	12		1		
E 52+05	OM3-R	X					4	OBJECT MARKER	12	36			3	1	12		1		
E 58+00	OM3-R	X					36	OBJECT MARKER	12	36			3	1	12		1		
E 59+49	R3-8LQ	X					40	LEFT/THROUGH-RIGHT	36	30			8	1	12		1		
E 64+00	R4-7		X				6	KEEP RIGHT						1	12		1		RELOCATE
	OM3-L		X					OBJECT MARKER						1	12		1		RELOCATE
E 84+50	R3-8LS	X					54	LEFT "ONLY"/ THRU "ONLY"	30	30			7	1	12		1		
																			TOTAL

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION

SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

ROOSEVELT STREET
SIGN SUMMARY TABLE

ENGINEER INFORMATION
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 32339 ANDREW R. SMIGIELSKI ARIZONA, U.S.A.
Expires 3-31-19

ORIGINAL PLAN DATE 12-27-2016

LATEST REVISION DATE 12-11-17

PROJECT NUMBER 2014-071

SHEET NUMBER SM04

SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

PLOT DATE: Dec 11, 2017

FILE: P:\projects 2015\15046 - roosevelt id (buckeye)\design\cadd\dwg\215035-SM04.dwg

SIGNING SUMMARY

STA.	SIGN CODE	NEW	WORK: EXISTING: RELOCATE	WORK: EXISTING: REMOVE & SALVAGE	WORK: EXISTING: SEE REMARKS	OFFSET FROM ML: Lt (ft)	OFFSET FROM ML: Rt (ft)	PANEL: LEGEND	SIGN SIZE: WIDTH (in)	SIGN SIZE: HEIGHT (in)	SHEETING TYPE AREA (sq. ft.): E	SHEETING TYPE AREA (sq. ft.): H	SHEETING TYPE AREA (sq. ft.): D	GROUND MOUNT: POSTS: NO. POSTS	GROUND MOUNT: POSTS: TYPE (length): P (ft)	GROUND MOUNT: POSTS: TYPE (length): U (ft)	GROUND MOUNT: FOUNDATIONS: P (ea)	GROUND MOUNT: FOUNDATIONS: U (ea)	REMARKS
W 58+23	OM3–R	X				54		OBJECT MARKER	12	36			3	1	12		1		
W 57+00	R2–1–45	X				54		SPEED LIMIT 45	24	30			5	1	12		1		
W 52+28	OM3–R	X				54		OBJECT MARKER	12	36			3	1	12		1		
W 46+78	OM3–R	X				54		OBJECT MARKER	12	36			3	1	12		1		
W 44+00	R2–1–45	X				54		SPEED LIMIT 45	24	30			5	1	12		1		
W 38+88	W3–1	X				54		STOP AHEAD	36	36			9	1	12		1		
W 36+62	D3–1	X				54		215TH AVE	36	12			5	1	12		1		
	R1–1–30	X						STOP	30	30			7						
W 36+38	W1–6L	X						ONE DIRECTION LARGE ARROW	48	24			8						ON BARRICADE
	OM4–1	X						OBJECT MARKER	18	18			5						
	OM4–1	X						OBJECT MARKER	18	18			5						

TOTAL

SIGNING SUMMARY

STA.	SIGN CODE	NEW	WORK: EXISTING: RELOCATE	WORK: EXISTING: REMOVE & SALVAGE	WORK: EXISTING: SEE REMARKS	OFFSET FROM ML: Lt (ft)	OFFSET FROM ML: Rt (ft)	PANEL: LEGEND	SIGN SIZE: WIDTH (in)	SIGN SIZE: HEIGHT (in)	SHEETING TYPE AREA (sq. ft.): E	SHEETING TYPE AREA (sq. ft.): H	SHEETING TYPE AREA (sq. ft.): D	GROUND MOUNT: POSTS: NO. POSTS	GROUND MOUNT: POSTS: TYPE (length): P (ft)	GROUND MOUNT: POSTS: TYPE (length): U (ft)	GROUND MOUNT: FOUNDATIONS: P (ea)	GROUND MOUNT: FOUNDATIONS: U (ea)	REMARKS
N 63+00	R4–7		X			91		KEEP RIGHT						1	12		1		RELOCATE
	OM3–L		X					OBJECT MARKER											
S 62+73	R4–7		X			106		KEEP RIGHT						1	12		1		RELOCATE
	OM3–L		X					OBJECT MARKER											
N 58+00	R2–1–35	X				29		SPEED LIMIT 35	24	30			5	1	12		1		211TH AVENUE
N 60+00	W3–1	X				29		STOP AHEAD	36	36			9	1	12		1		211TH AVENUE
N 62+43	D3–1	X				29		211TH AVE	36	12			5	2	26		2		211TH AVENUE
	D3–1	X						McDOWELL RD	36	12			5						
	R1–1–30	X						STOP	30	30			7						
N 63+20	W1–7	X				48		TWO DIRECTION ARROW	48	24			8	2	26		2		211TH AVENUE
	OM4–1	X						OBJECT MARKER	18	18			5						
	OM4–1	X						OBJECT MARKER	18	18			5						
S 60+00	R2–1–35	X				80		SPEED LIMIT 35	24	30			5	1	12		1		211TH AVENUE

TOTAL

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION

SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

ROOSEVELT STREET & 211TH AVENUE
SIGN SUMMARY TABLE

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

32339
ANDREW R. SMIGIELSKI
ARIZONA, U.S.A.
Expires 3–31–19

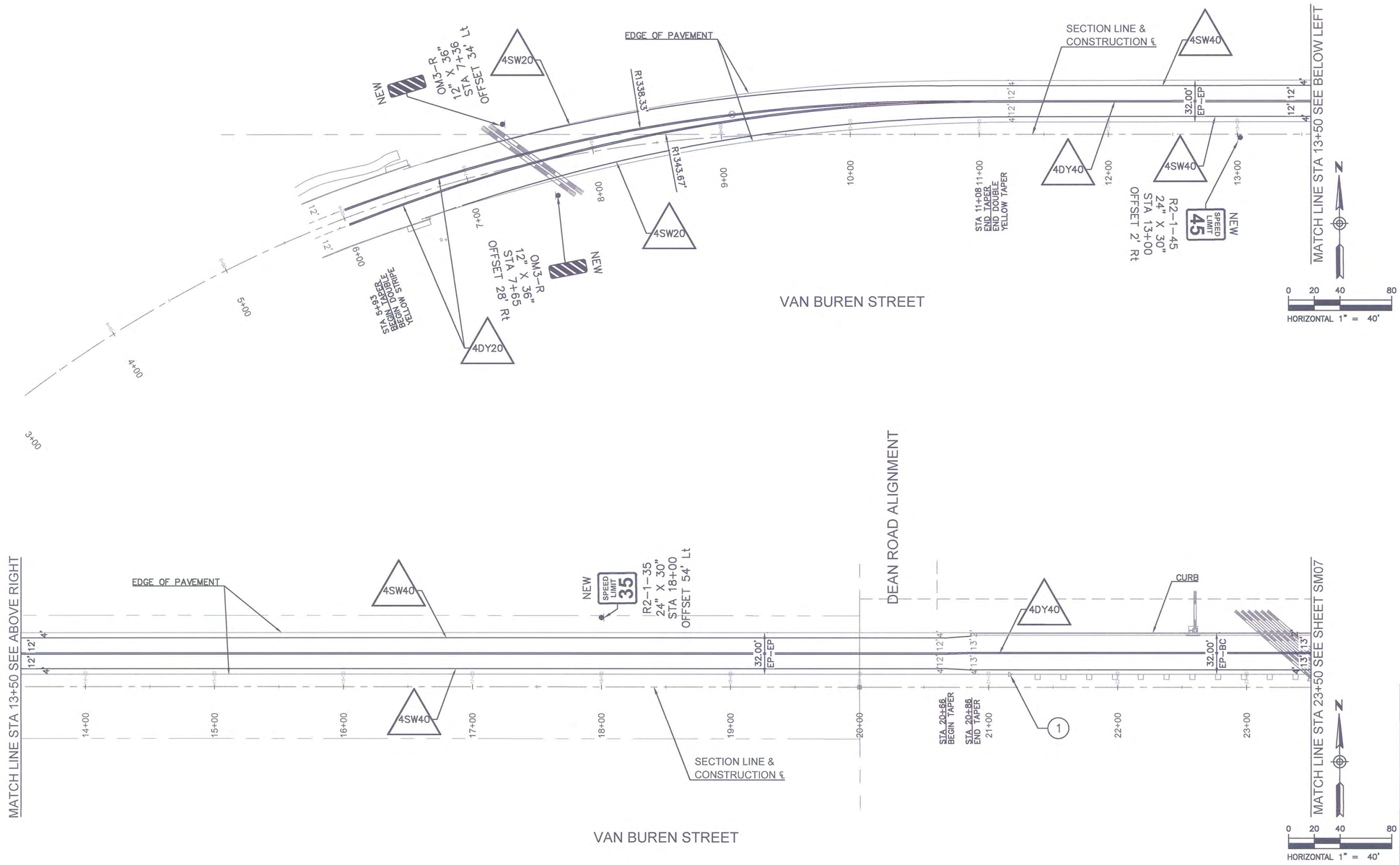
SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE	PROJECT NUMBER	SHEET NUMBER
12-27-2016	12-11-17	2014-071	SM05

PLOT DATE: Dec 11, 2017
FILE: P:\projects 2015\15046 – roosevelt id (buckeye)\design\cadd\dwg\215035–SM05.dwg



NOTES:

(1) INSTALL OM 101-1 ON FACE OF GUARDRAIL END TERMINAL AS SHOWN IN ADOT STD DWG M-34.

(1) REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

TRAFFIC ENGINEER INFORMATION
SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
SIGNING AND MARKING PLAN
VAN BUREN STREET
STA 3+50 TO 23+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
32339
ANDREW R. SMIGELSKI
ARIZONA, U.S.A.
Expires 3-31-19

COB PLAN TRACKING # ENG-16-00003

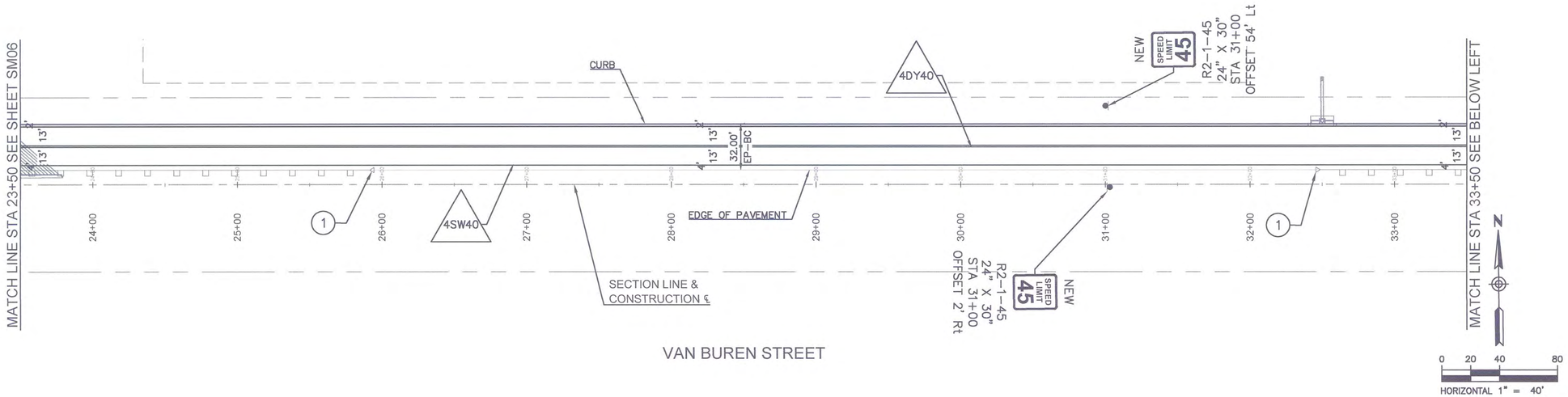
COB PERMIT #

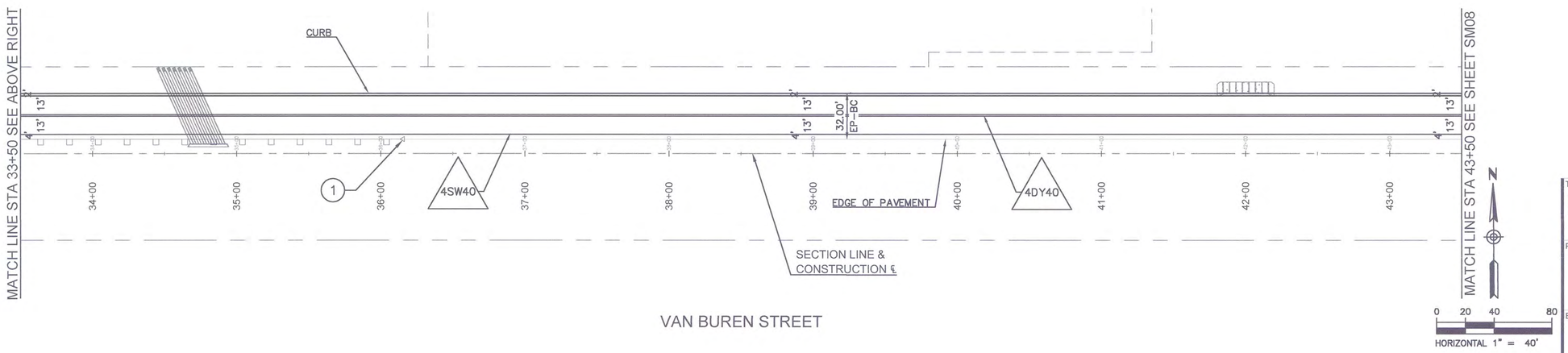
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER
2014-071	SM06

PLOT DATE: Dec 11, 2017

FILE: P:\projects 2015\15046 - roosevelt id (buckeye)\design\cadd\dwg\215035-SM06.dwg





NOTES:

(1) INSTALL OM 101-1 ON FACE OF GUARDRAIL END TERMINAL AS SHOWN IN ADOT STD DWG M-34.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION
SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
SIGNING AND MARKING PLAN
VAN BUREN STREET
STA 23+50 TO 43+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
32339
ANDREW R. SMIGIELSKI
Date Signed 12-11-17
ARIZONA, U.S.A.
Expires 3-31-19

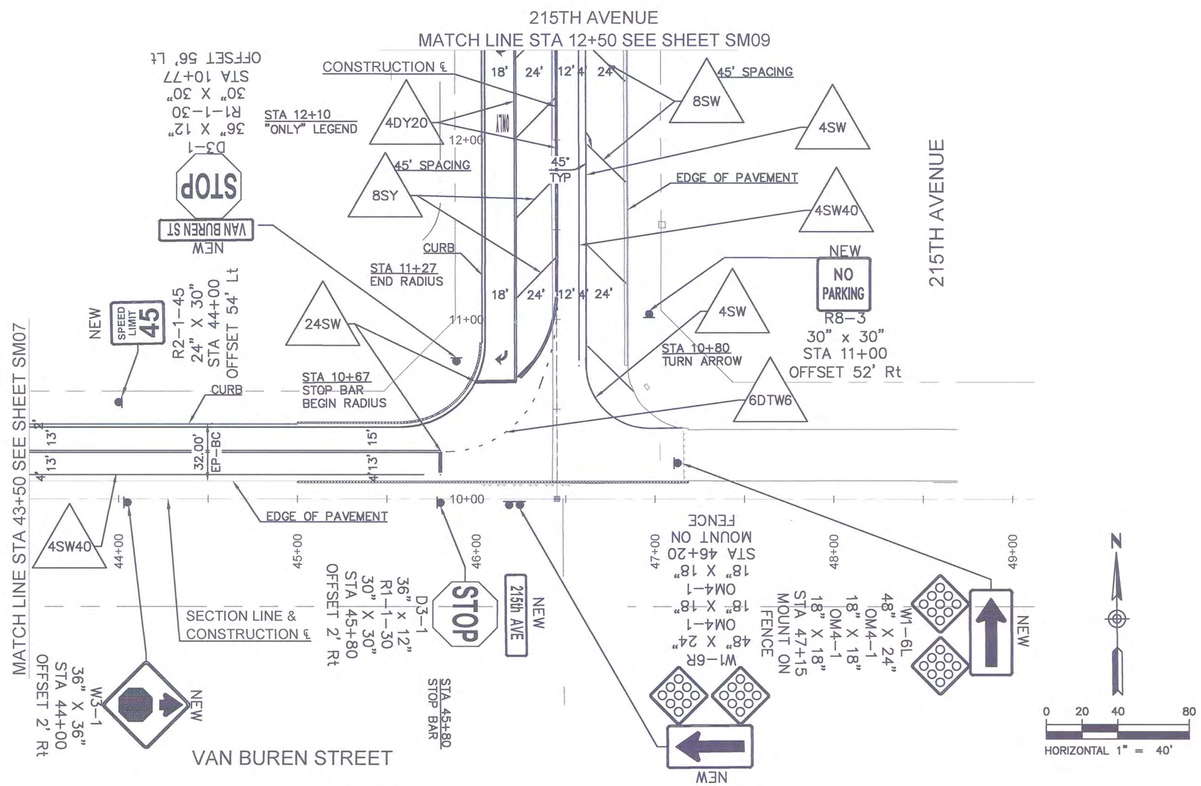
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER	
2014-071	SM07	106 OF 125

SUBMITTAL: 3RD SUBMITTAL
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

PLOT DATE: Dec 11, 2017

FILE: P:\projects 2015\15046 - roosevelt id (buckeye)\design\cadd\dwg\215035-SM07.dwg



1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

TRAFFIC ENGINEER INFORMATION
SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3638 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.265.SWTE (7983)
Fax 602.265.1115
www.swte.us

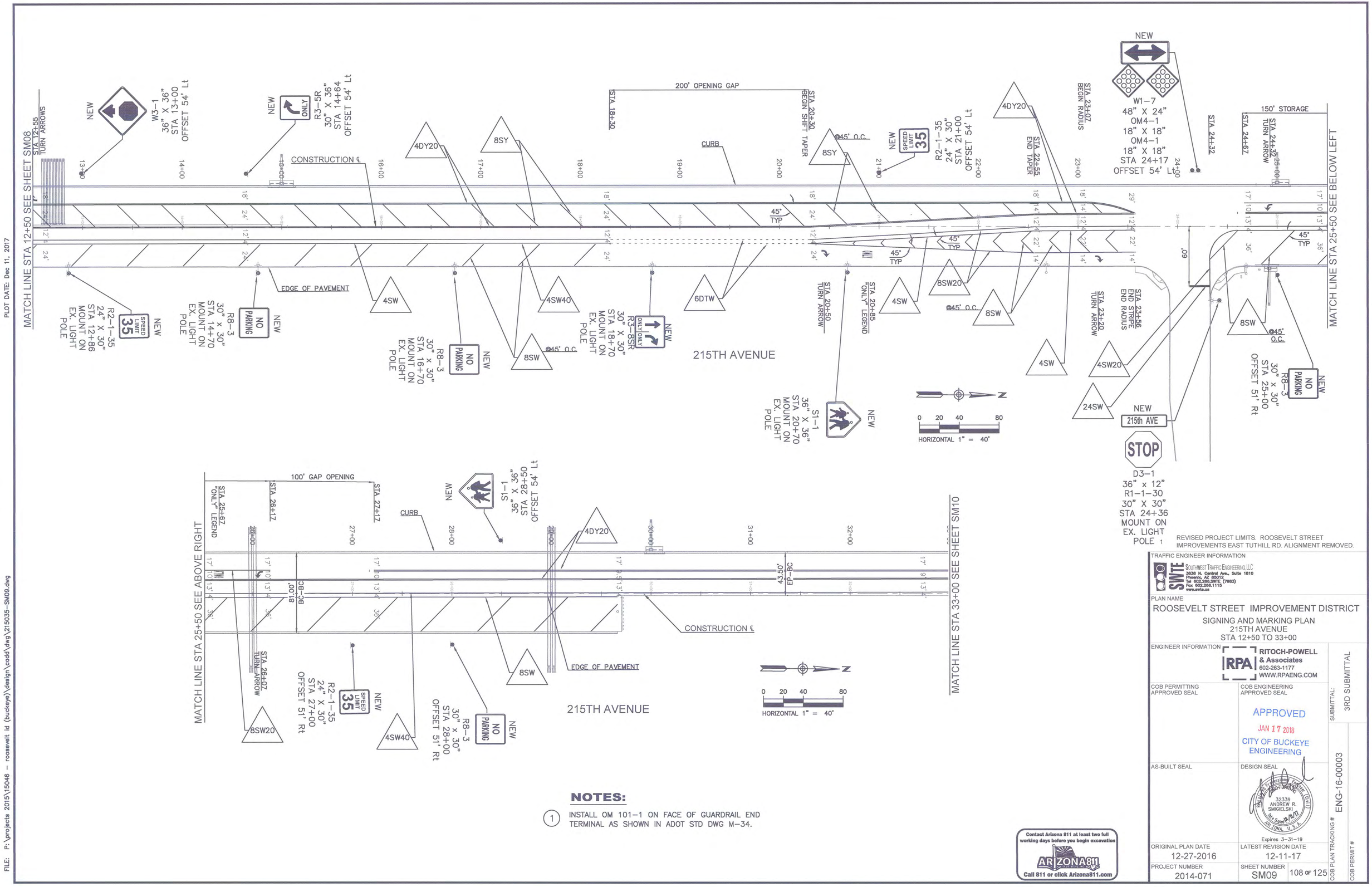
PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
SIGNING AND MARKING PLAN
VAN BUREN STREET
STA 43+50 TO 48+50

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: 3RD SUBMITTAL
	APPROVED JAN 17 2018 CITY OF BUCKEYE ENGINEERING	
AS-BUILT SEAL	DESIGN SEAL 32339 ANDREW R. SMIGIELSKI Expires 3-31-19	COB PLAN TRACKING # ENG-16-00003
ORIGINAL PLAN DATE 12-27-2016	LATEST REVISION DATE 12-11-17	
PROJECT NUMBER 2014-071	SHEET NUMBER SM08 107 OF 125	COB PERMIT #

PLOT DATE: Dec 11, 2017

FILE: P:\projects 2015\15046 - roosevelt id (buckeye)\design\cadd\dwg\215035-SM08.dwg



NOTES:

1. INSTALL OM 101-1 ON FACE OF GUARDRAIL END TERMINAL AS SHOWN IN ADOT STD DWG M-34.

REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION

SWTE Southwest Traffic Engineering, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT
SIGNING AND MARKING PLAN
215TH AVENUE
STA 12+50 TO 33+00

ENGINEER INFORMATION

RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL

32339 ANDREW R. SMIGELSKI
Date Signed 12/11/17
ARIZONA, U.S.A.
Expires 3-31-19

ORIGINAL PLAN DATE 12-27-2016

LATEST REVISION DATE 12-11-17

PROJECT NUMBER 2014-071

SHEET NUMBER SM09

108 OF 125

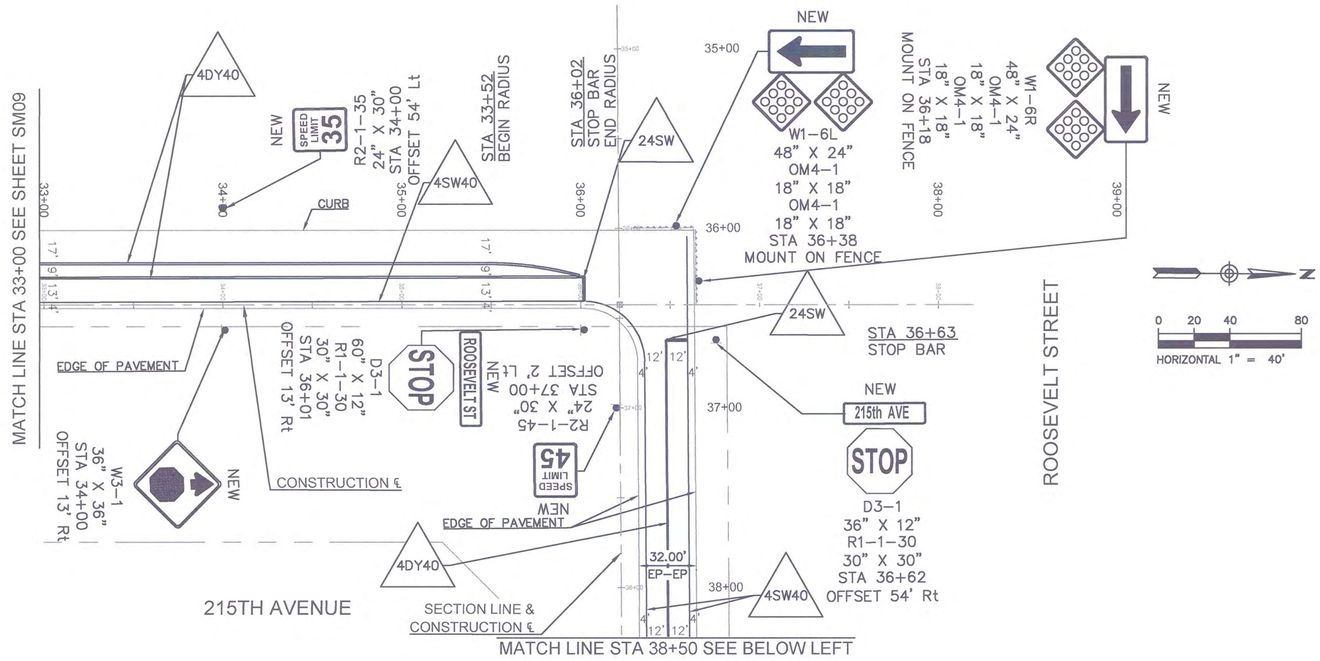
COB PLAN TRACKING # ENG-16-00003

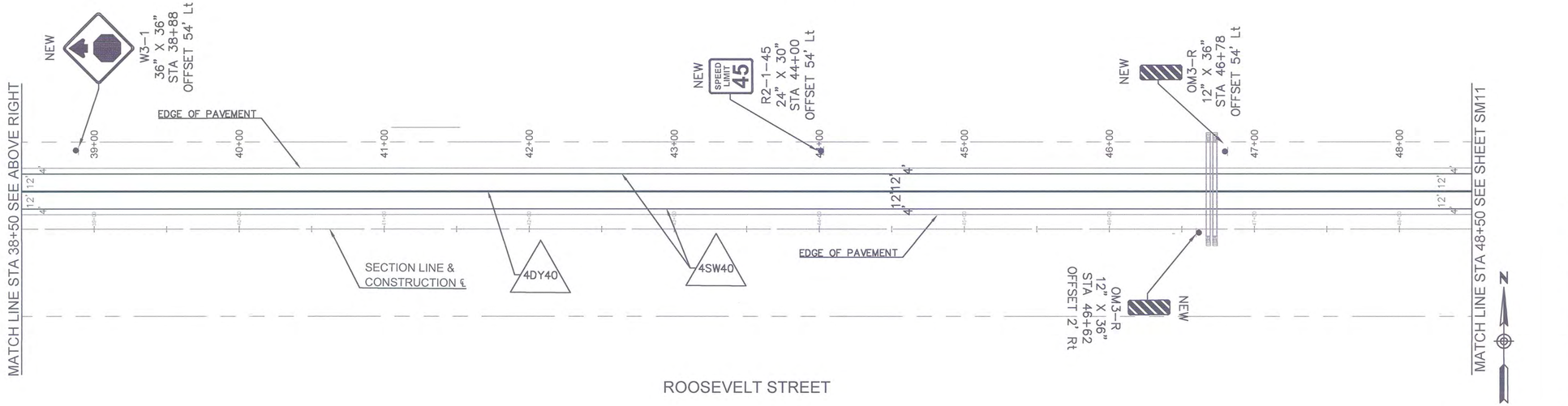
COB PERMIT #

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

PLOT DATE: Dec 11, 2017

FILE: P:\projects 2015\15046 - roosevelt id (buckeye)\design\cadd\dwg\215035-SM09.dwg





1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION

SWTE SOUTHWEST TRAFFIC ENGINEERING LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

SIGNING AND MARKING PLAN
ROOSEVELT STREET
STA 38+50 TO 48+50

ENGINEER INFORMATION

RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
32339
ANDREW R. SMIGELSKI
Date Signed 1/11/18
ARIZONA, U.S.A.
Expires 3-31-19

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

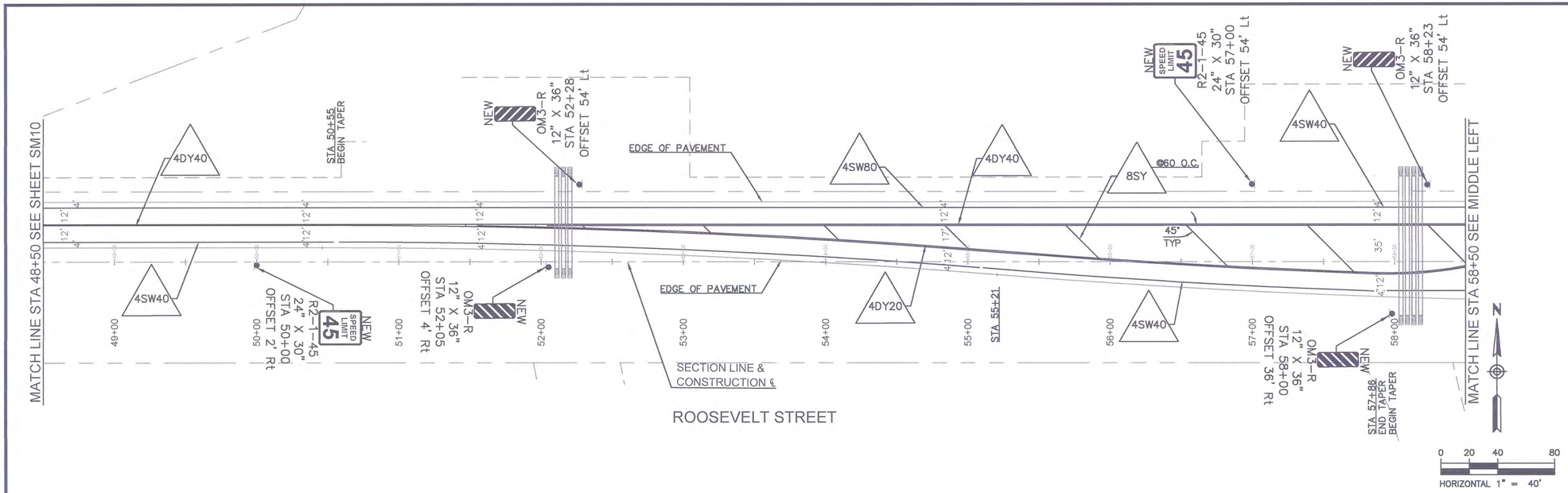
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER	SHEET NUMBER
2014-071	SM10

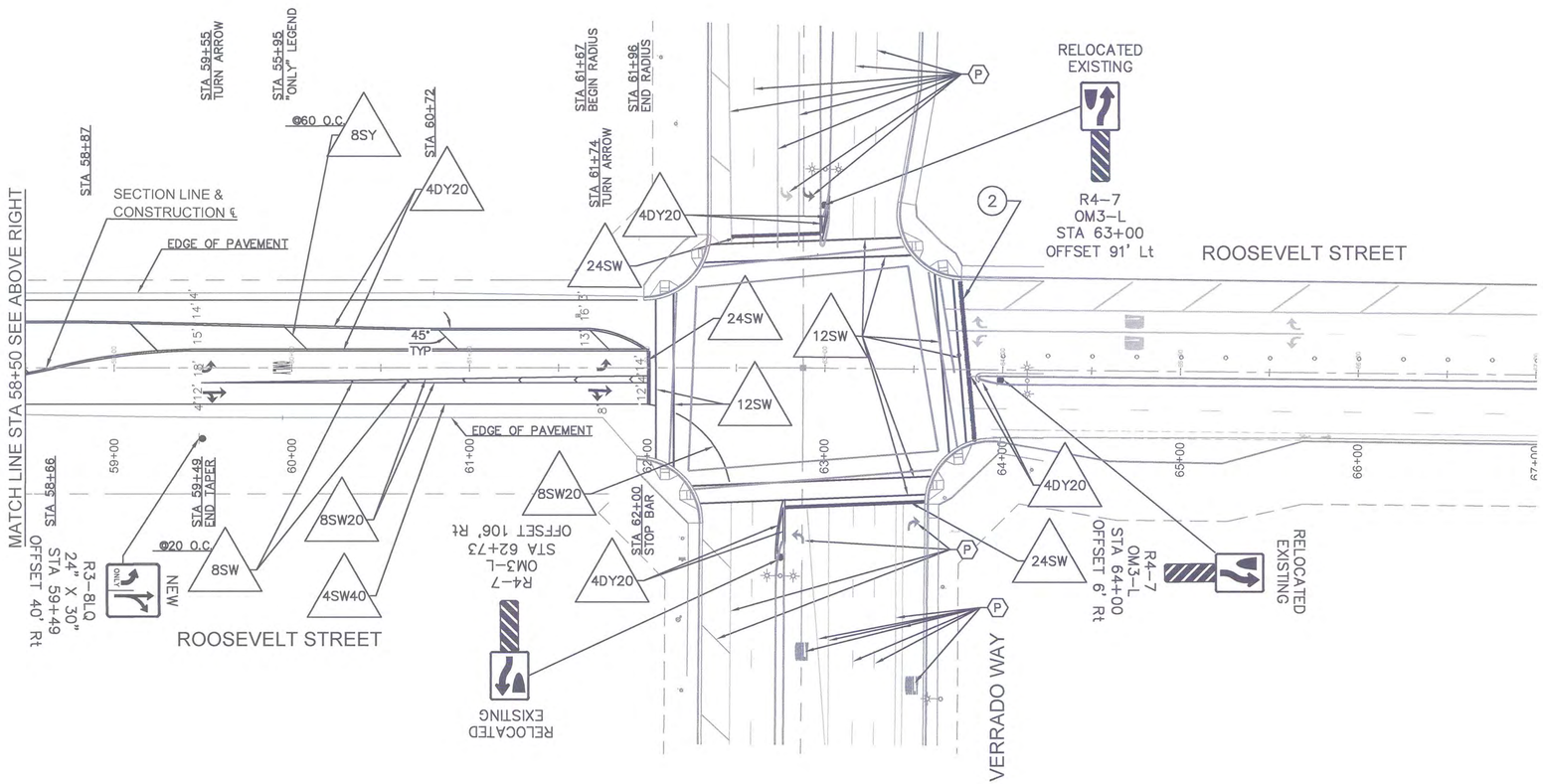
109 OF 125

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

PLOT DATE: Dec 11, 2017

FILE: P:\projects 2015\15046 - roosevelt id (buckeye)\design\cadd\dwg\215035-SM10.dwg





NOTES:

(2) RELOCATE EXISTING TEMPORARY CONCRETE BARRIER WALL TO BEHIND NEW WESTBOUND STOP BAR.

(P) EXISTING STRIPING TO BE PROTECTED IN PLACE

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION

SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.265.1115
www.swte.us

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

SIGNING AND MARKING PLAN
ROOSEVELT STREET
STA 48+50 TO 69+00

ENGINEER INFORMATION

RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL APPROVED JAN 17 2018 CITY OF BUCKEYE ENGINEERING
AS-BUILT SEAL	DESIGN SEAL 32339 ANDREW R. SMIGELSKI Expires 3-31-19
ORIGINAL PLAN DATE 12-27-2016	LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071	SHEET NUMBER SM11 110 OF 125

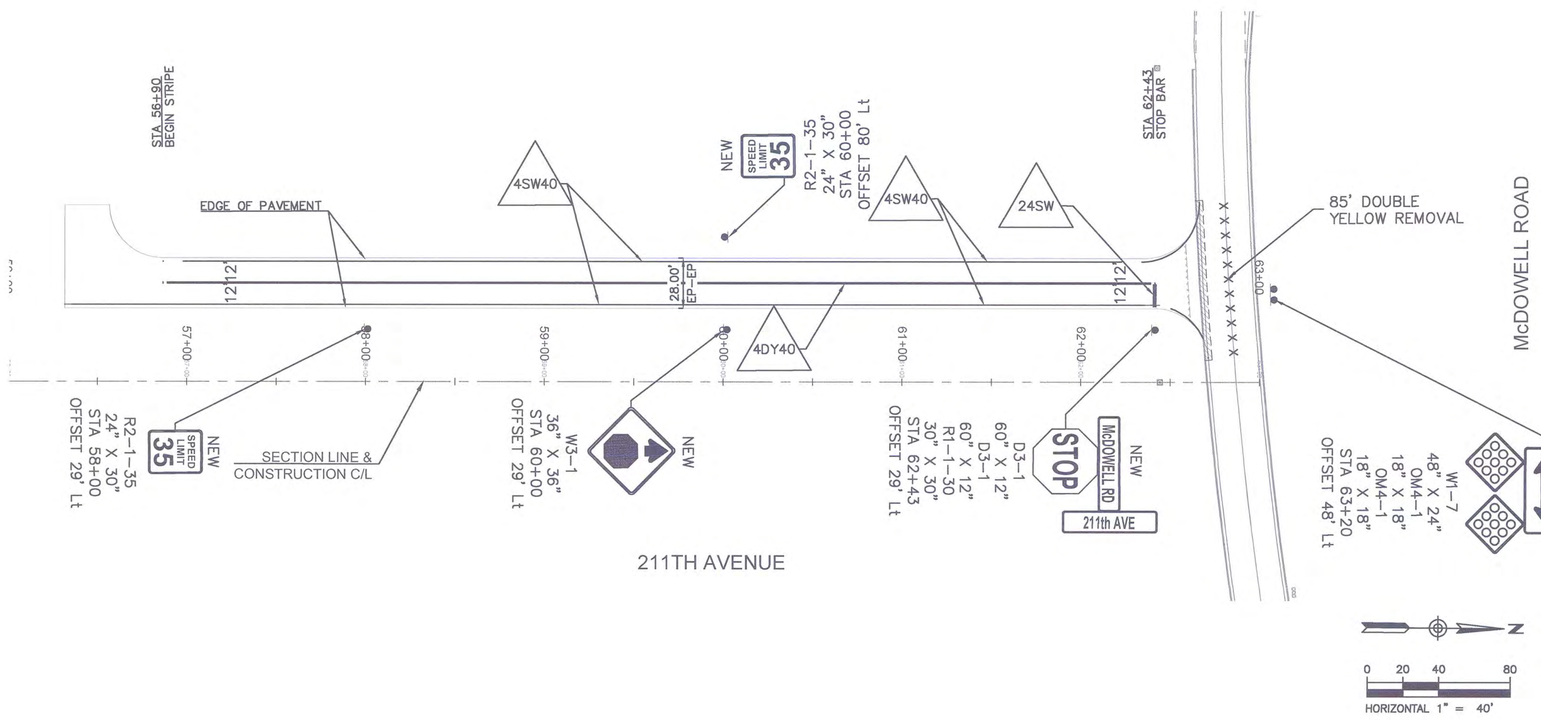
SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

PLOT DATE: Dec 11, 2017

FILE: P:\projects 2015\15046 - roosevelt id (buckeye)\design\cadd\dwg\215035-SM11.dwg



1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

TRAFFIC ENGINEER INFORMATION

SMTE
SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.5915 (7983)
Fax 602.266.1115
www.swte.us

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

SIGNING AND MARKING PLAN
211TH AVENUE
STA 56+90 TO 62+50

ENGINEER INFORMATION

RPA
RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
32339
ANDREW R. SMIGIELSKI
Date Signed 12/11/17
ARIZONA, U.S.A.
Expires 3-31-19

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER	SHEET NUMBER
2014-071	SM12 111 OF 125

SUBMITTAL: 3RD SUBMITTAL

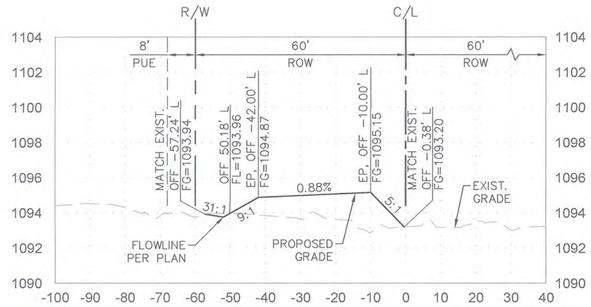
COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

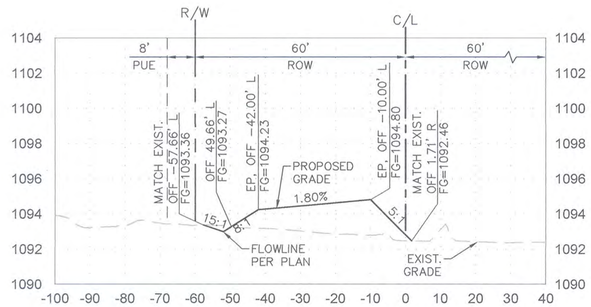
Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

PLOT DATE: Dec 11, 2017

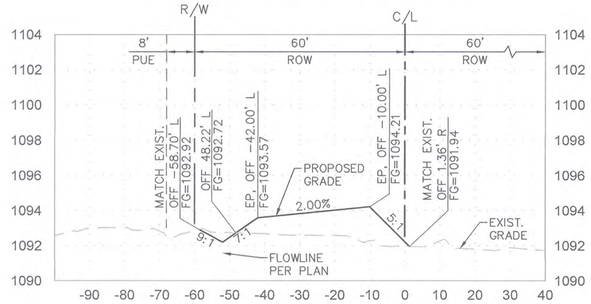
FILE: P:\projects 2015\15046 - roosevelt id (buckeye)\design\cadd\dwg\215035-SM12.dwg



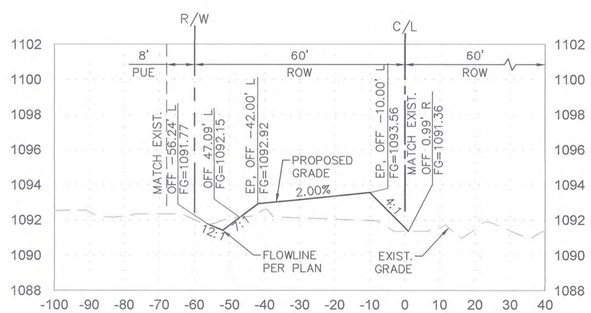
ROOSEVELT STREET STA 37+00.00



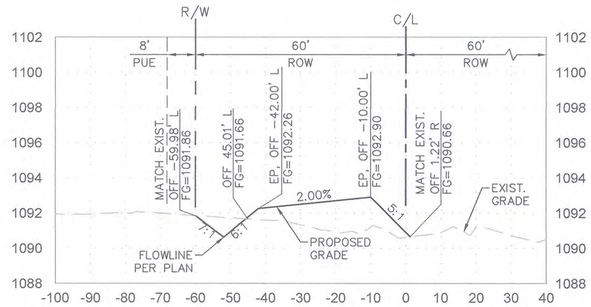
ROOSEVELT STREET STA 38+00.00



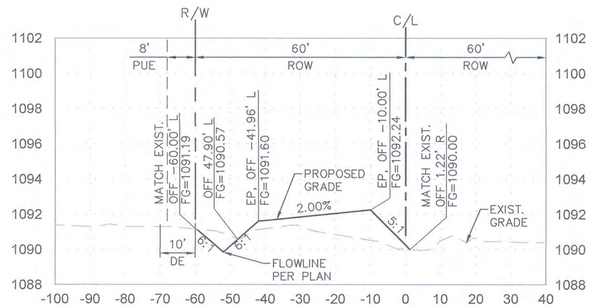
ROOSEVELT STREET STA 39+00.00



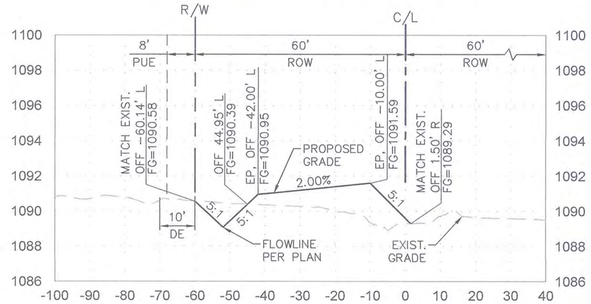
ROOSEVELT STREET STA 40+00.00



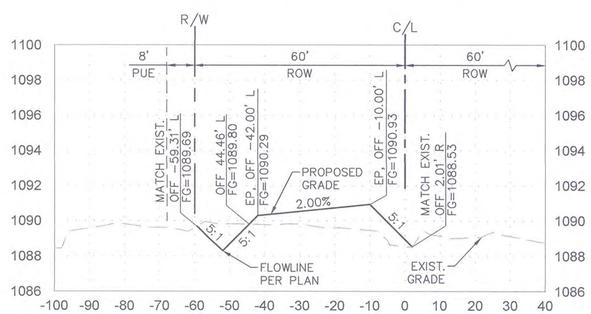
ROOSEVELT STREET STA 41+00.00



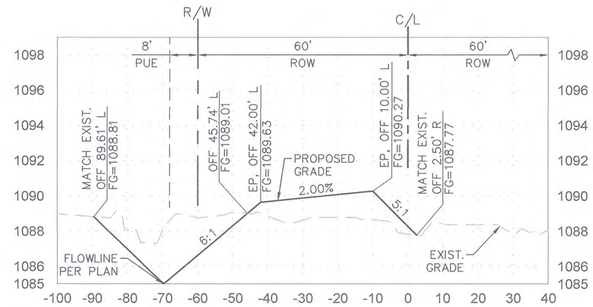
ROOSEVELT STREET STA 42+00.00



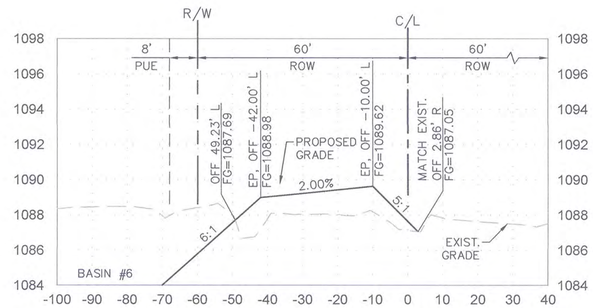
ROOSEVELT STREET STA 43+00.00



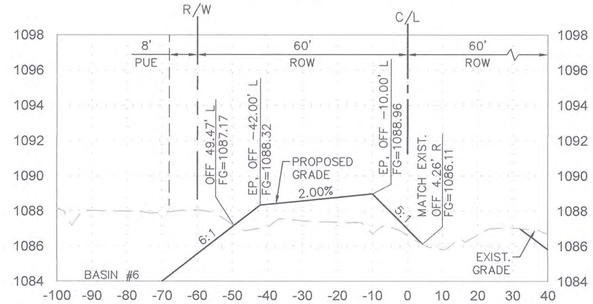
ROOSEVELT STREET STA 44+00.00



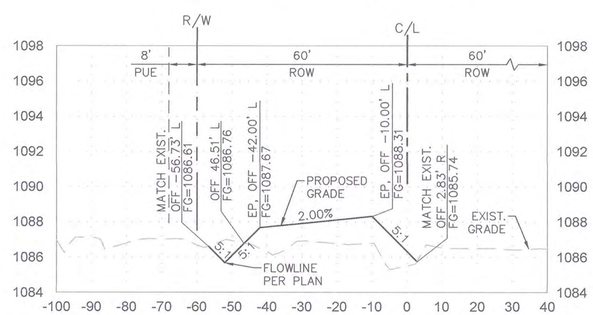
ROOSEVELT STREET STA 45+00.00



ROOSEVELT STREET STA 46+00.00



ROOSEVELT STREET STA 47+00.00



ROOSEVELT STREET STA 48+00.00

0 10 20 40
HORIZONTAL 1" = 20'
VERTICAL 1" = 4'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
ROADWA□ CROSS SECTIONS

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
23232
PETER H. HEMINGWAY
Date Signed 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

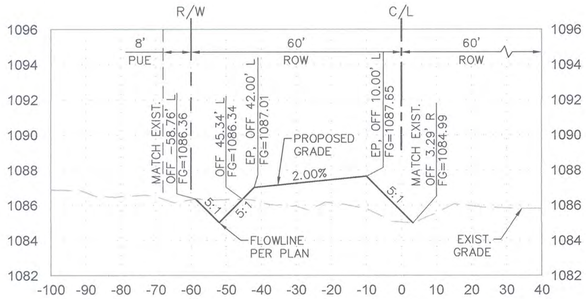
COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

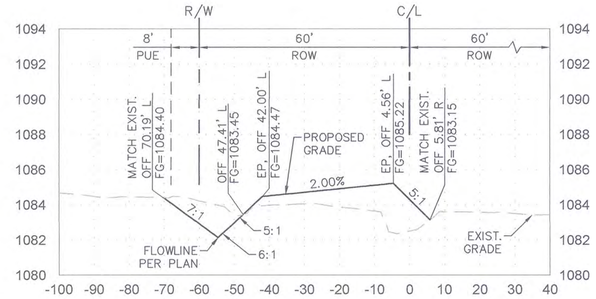
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER	SHEET NUMBER
2014-071	□S01 112 OF 125

PLOT DATE: Dec 13, 2017

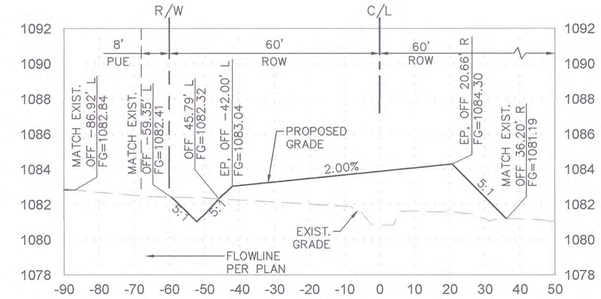
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\112-215035-XS01.dwg



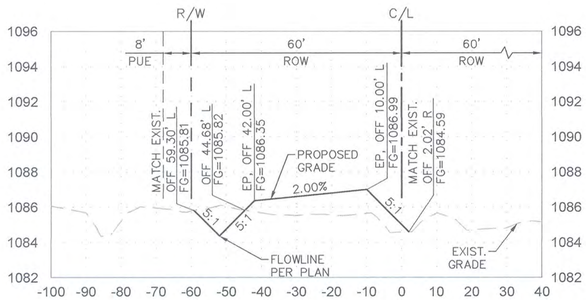
ROOSEVELT STREET STA 49+00.00



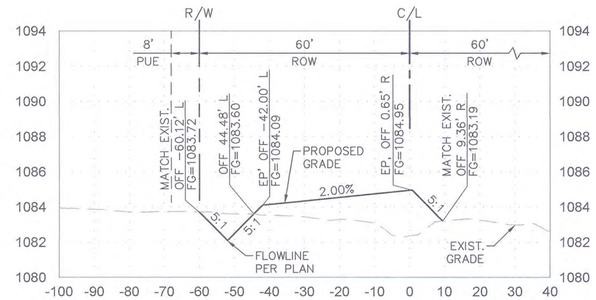
ROOSEVELT STREET STA 53+00.00



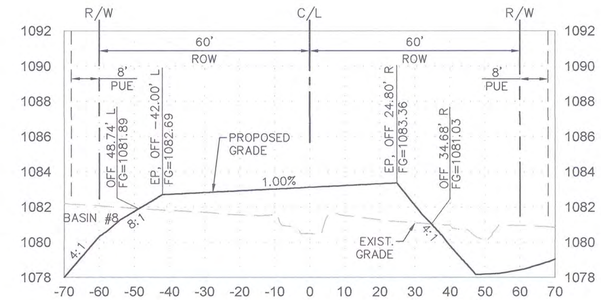
ROOSEVELT STREET STA 57+00.00



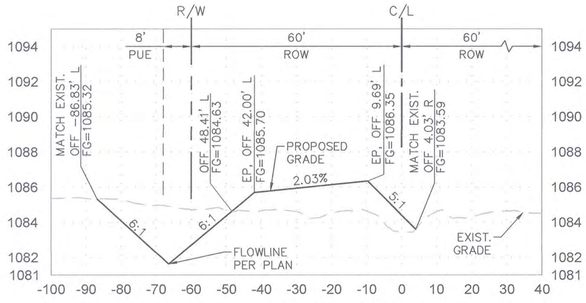
ROOSEVELT STREET STA 50+00.00



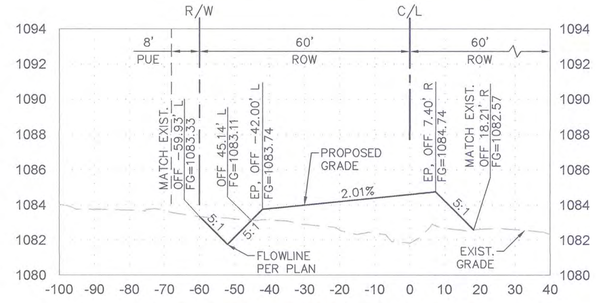
ROOSEVELT STREET STA 54+00.00



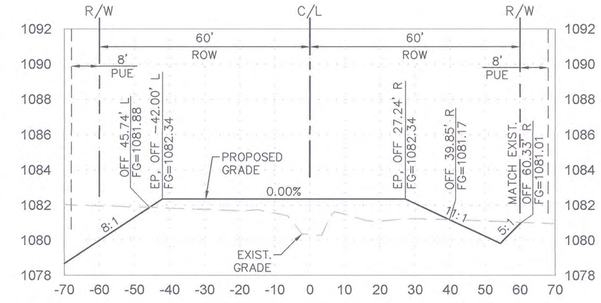
ROOSEVELT STREET STA 58+00.00



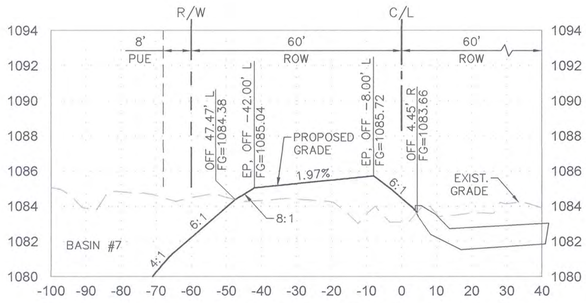
ROOSEVELT STREET STA 51+00.00



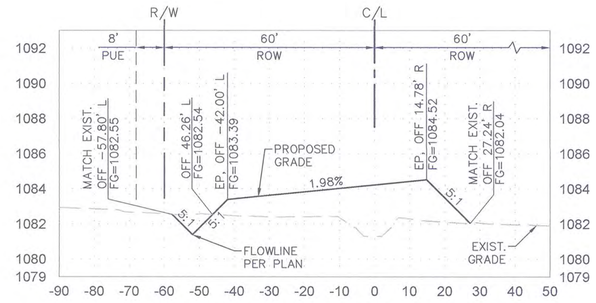
ROOSEVELT STREET STA 55+00.00



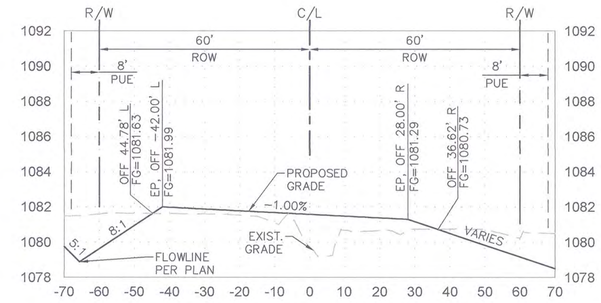
ROOSEVELT STREET STA 59+00.00



ROOSEVELT STREET STA 52+00.00



ROOSEVELT STREET STA 56+00.00



ROOSEVELT STREET STA 60+00.00

0 10 20 40
HORIZONTAL 1" = 20'
VERTICAL 1" = 4'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT

ROADWA□ CROSS SECTIONS

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

SUBMITTAL: 3RD SUBMITTAL

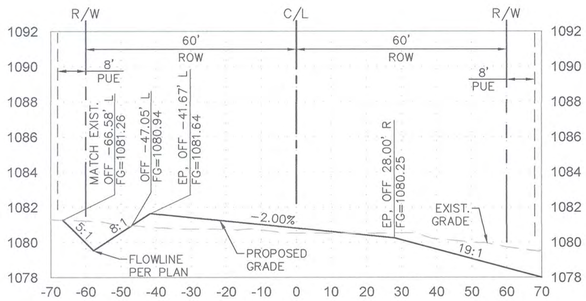
COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER	SHEET NUMBER
2014-071	□S02 113 OF 125

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\113-215035-XS02.dwg



ROOSEVELT STREET STA 61+00.00

0 10 20 40

HORIZONTAL 1" = 20'
VERTICAL 1" = 4'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

ROADWA□ CROSS SECTIONS

ENGINEER INFORMATION

RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

23232
PETER H. HEMINGWAY
Date Signed 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

ORIGINAL PLAN DATE 12-27-2016

LATEST REVISION DATE 12-11-17

PROJECT NUMBER 2014-071

SHEET NUMBER □S03

114 OF 125

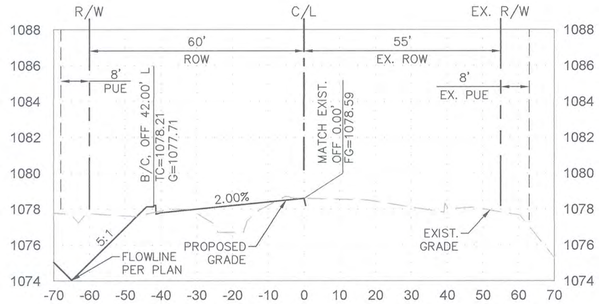
SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

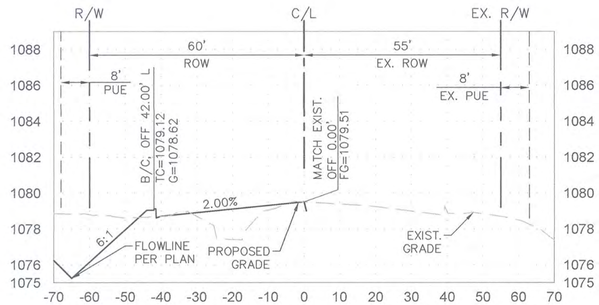
COB PERMIT #

PLOT DATE: Dec 13, 2017

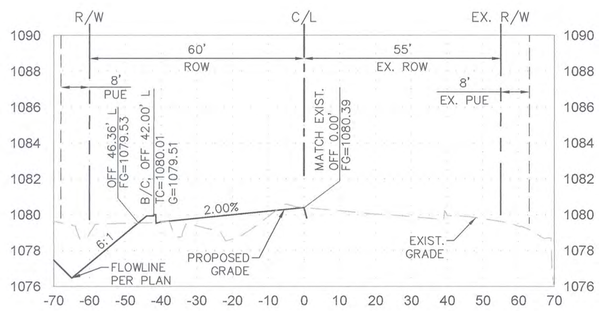
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\114-215035-XS03.dwg



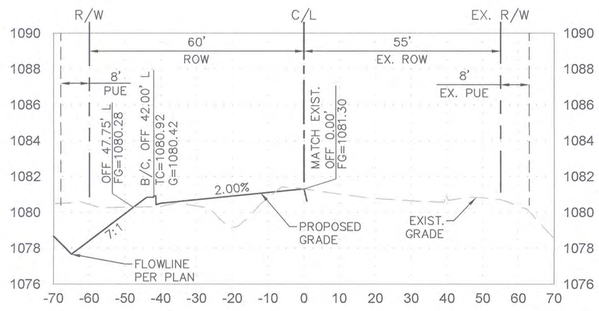
215TH AVENUE STA 16+00.00



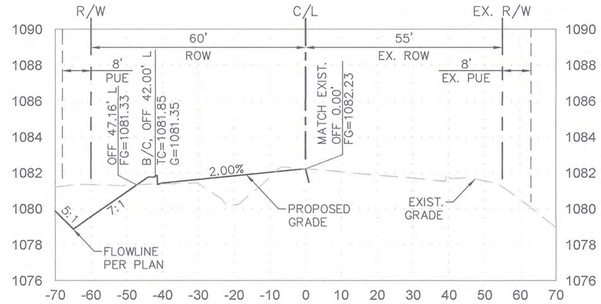
215TH AVENUE STA 17+00.00



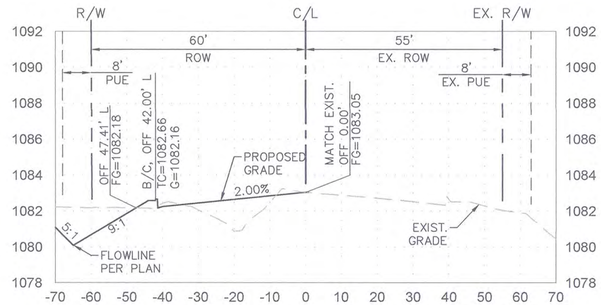
215TH AVENUE STA 18+00.00



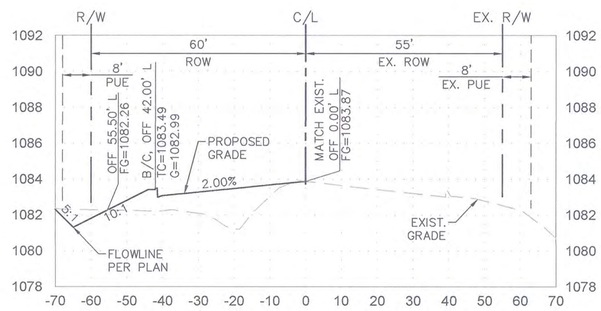
215TH AVENUE STA 19+00.00



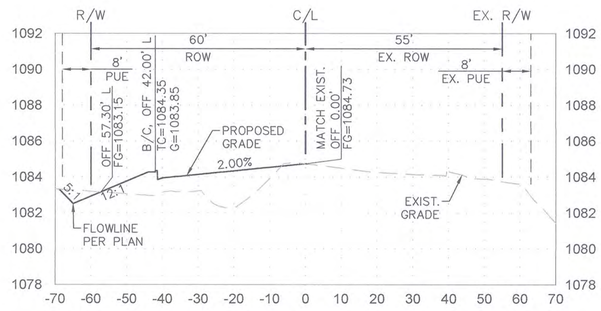
215TH AVENUE STA 20+00.00



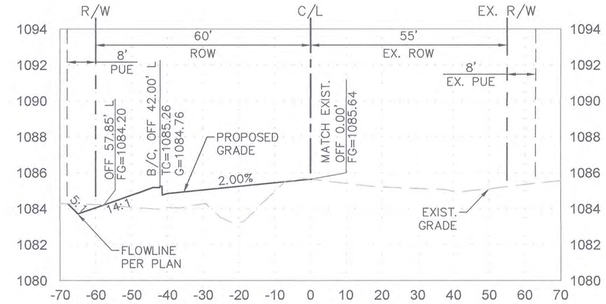
215TH AVENUE STA 21+00.00



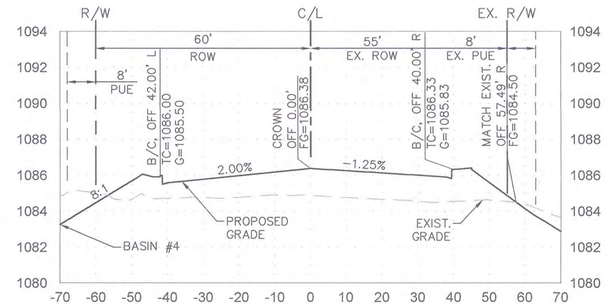
215TH AVENUE STA 22+00.00



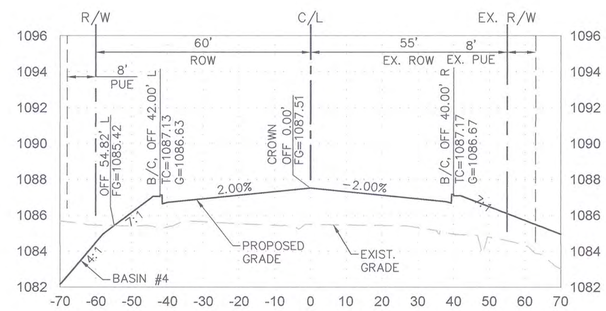
215TH AVENUE STA 23+00.00



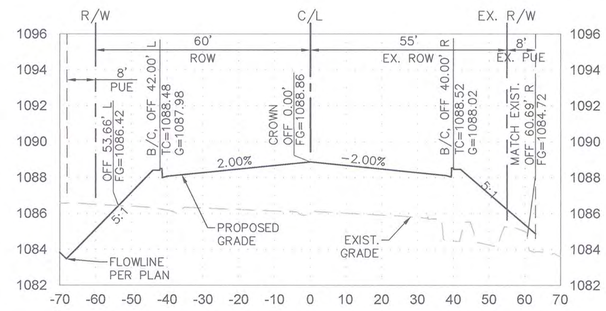
215TH AVENUE STA 24+00.00



215TH AVENUE STA 25+00.00



215TH AVENUE STA 26+00.00



215TH AVENUE STA 27+00.00

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

0 10 20 40
HORIZONTAL 1" = 20'
VERTICAL 1" = 4'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT

ROADWA□ CROSS SECTIONS

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
EXPIRES 03/31/2018

SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

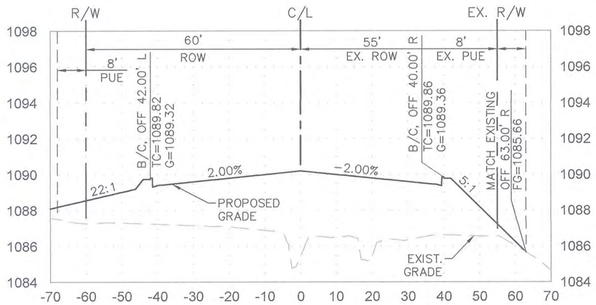
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER
2014-071	□S04

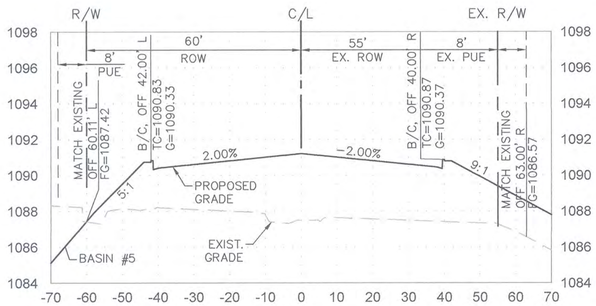
115 OF 125

PLOT DATE: Dec 13, 2017

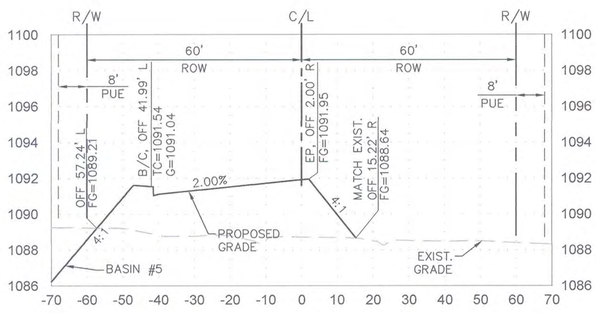
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\115-215035-XS04.dwg



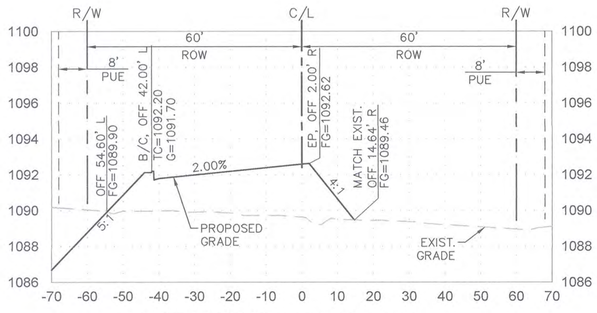
215TH AVENUE STA 28+00.00



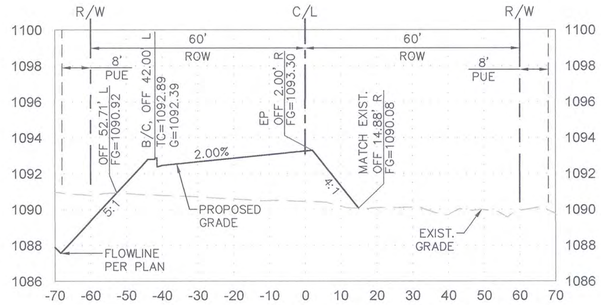
215TH AVENUE STA 29+00.00



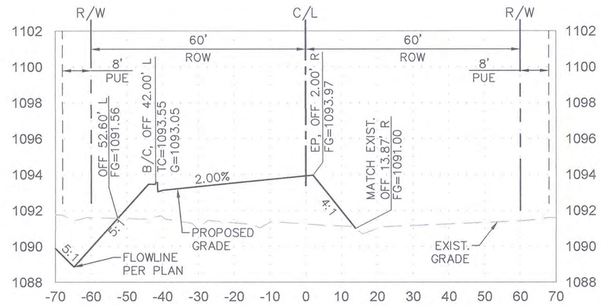
215TH AVENUE STA 30+00.00



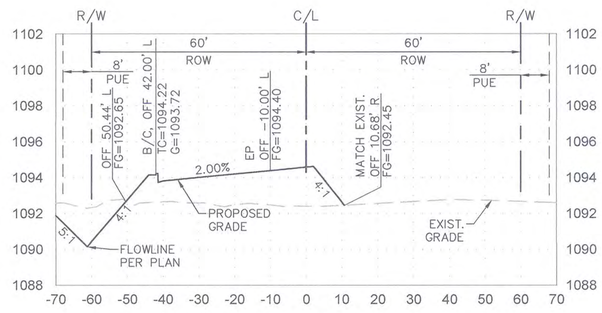
215TH AVENUE STA 31+00.00



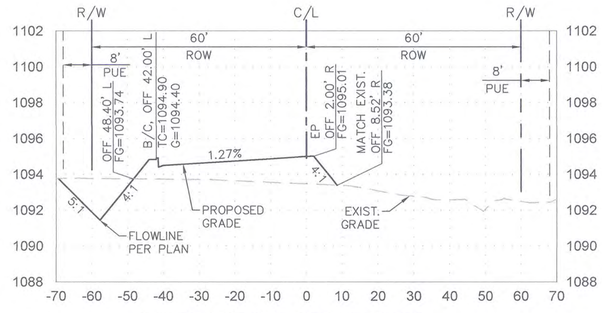
215TH AVENUE STA 32+00.00



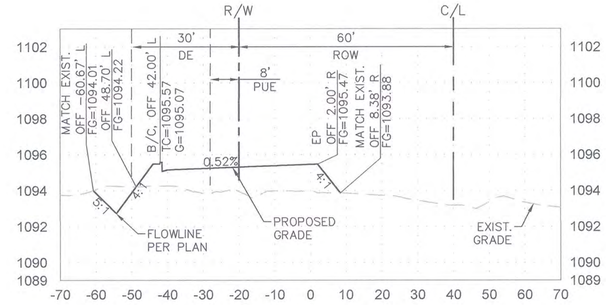
215TH AVENUE STA 33+00.00



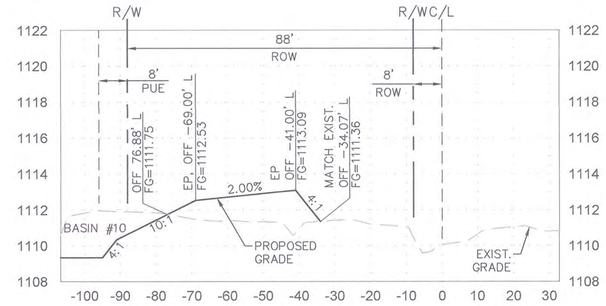
215TH AVENUE STA 34+00.00



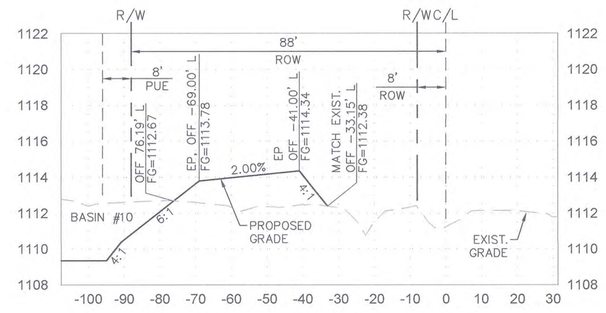
215TH AVENUE STA 35+00.00



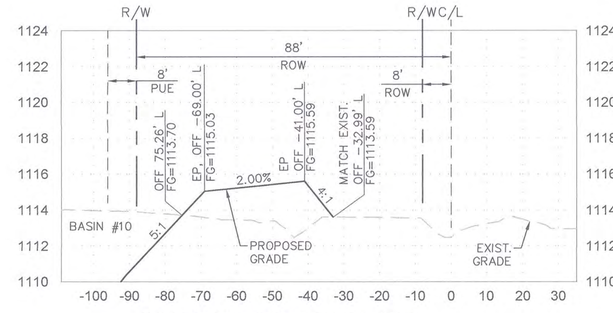
215TH AVENUE STA 36+00.00



211 TH AVENUE STA 57+00.00



211 TH AVENUE STA 58+00.00



211 TH AVENUE STA 59+00.00

0 10 20 40

HORIZONTAL 1" = 20'
VERTICAL 1" = 4'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

ROADWA□ CROSS SECTIONS

ENGINEER INFORMATION

RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL

23232 PETER H. HEMINGWAY ARIZONA, U.S.A.
Date Signed 12/11/2017
EXPIRES 03/31/2018

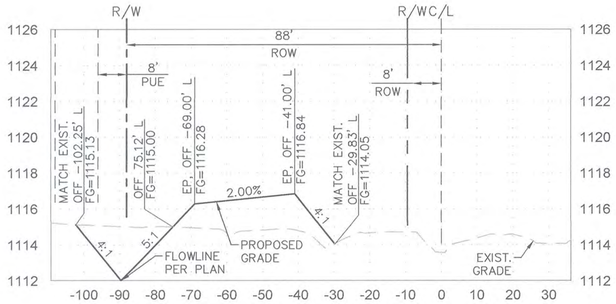
COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

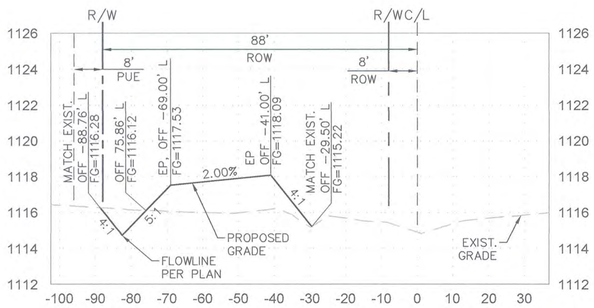
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER	SHEET NUMBER
2014-071	□S05 116 OF 125

PLOT DATE: Dec 13, 2017

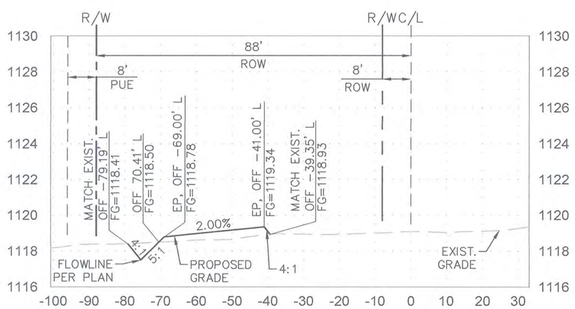
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\116-215035-XS05.dwg



211 TH AVENUE STA 60+00.00



211 TH AVENUE STA 61+00.00



211 TH AVENUE STA 62+00.00

0 10 20 40

HORIZONTAL 1" = 20'
VERTICAL 1" = 4'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

ROADWA□ CROSS SECTIONS

ENGINEER INFORMATION

RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

23232
PETER H. HEMINGWAY
Date Signed 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER	
2014-071	□S06	117 OF 125

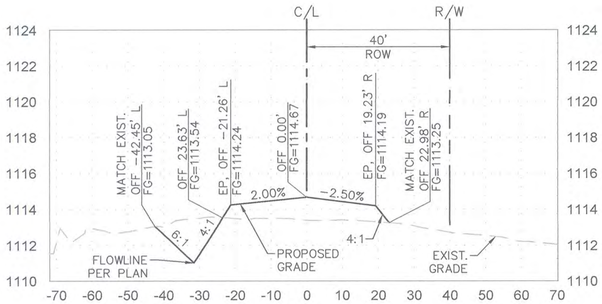
SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

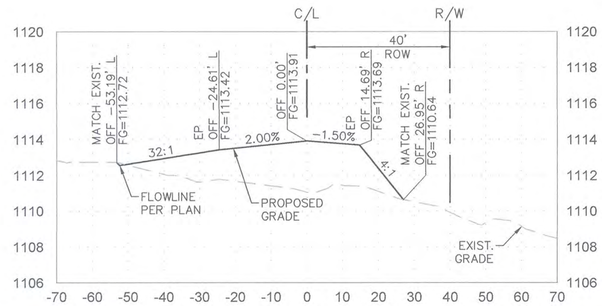
COB PERMIT #

PLOT DATE: Dec 13, 2017

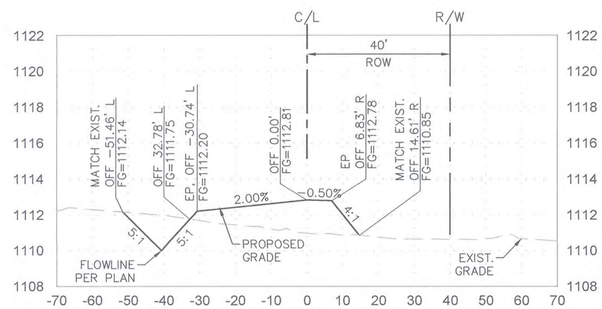
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\117-215035-XS06.dwg



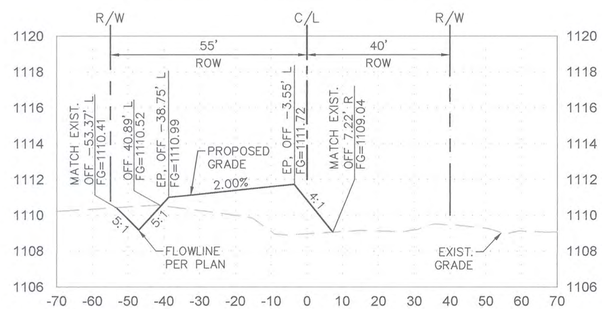
VAN BUREN STREET STA 7+00.00



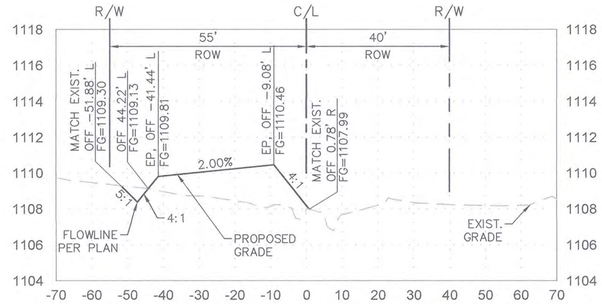
VAN BUREN STREET STA 8+00.00



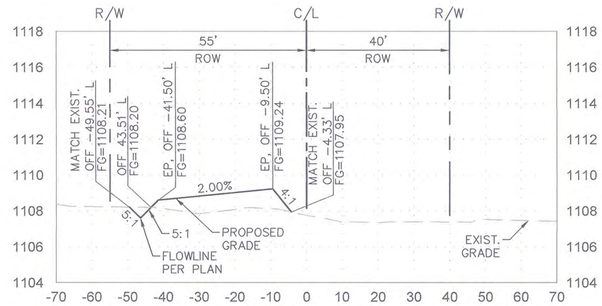
VAN BUREN STREET STA 9+00.00



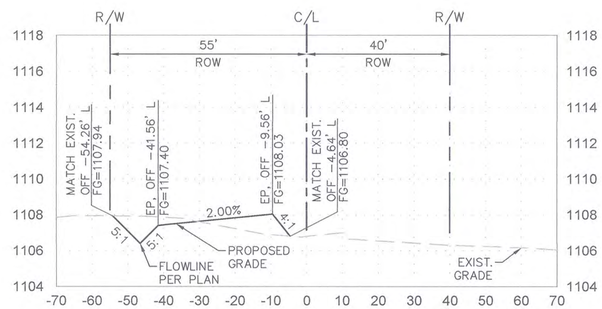
VAN BUREN STREET STA 10+00.00



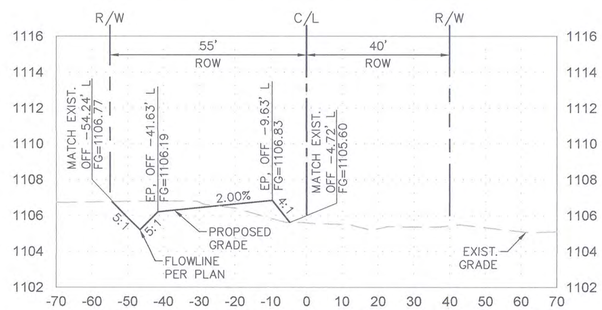
VAN BUREN STREET STA 11+00.00



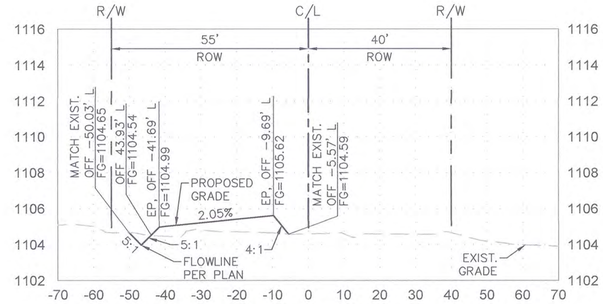
VAN BUREN STREET STA 12+00.00



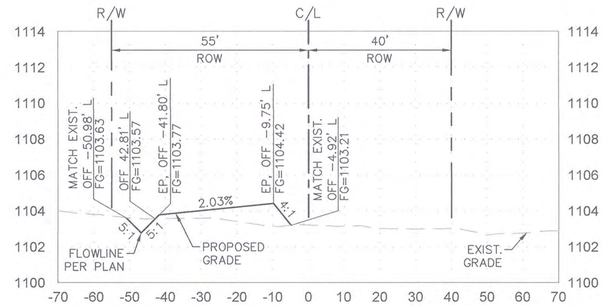
VAN BUREN STREET STA 13+00.00



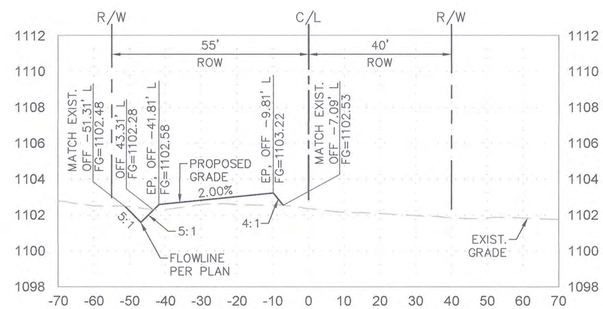
VAN BUREN STREET STA 14+00.00



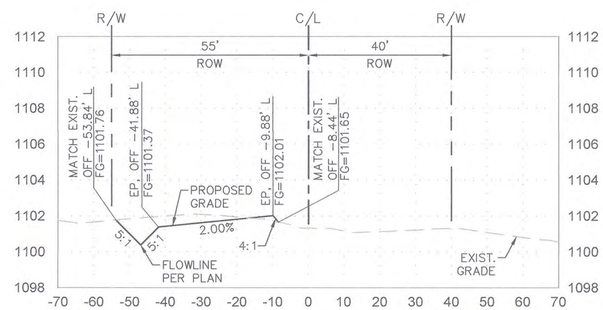
VAN BUREN STREET STA 15+00.00



VAN BUREN STREET STA 16+00.00



VAN BUREN STREET STA 17+00.00



VAN BUREN STREET STA 18+00.00

0 10 20 40

HORIZONTAL 1" = 20'
VERTICAL 1" = 4'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

ROADWA□ CROSS SECTIONS

ENGINEER INFORMATION

RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

Registered Professional Engineer (Civil)
23232
PETER H. HEMINGWAY
Date Signed 12/11/2017
ARIZONA, U.S.A.
EXPIRES 03/31/2018

SUBMITTAL: 3RD SUBMITTAL

COB PLAN TRACKING # ENG-16-00003

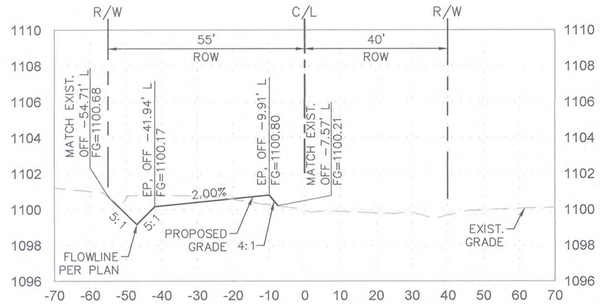
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

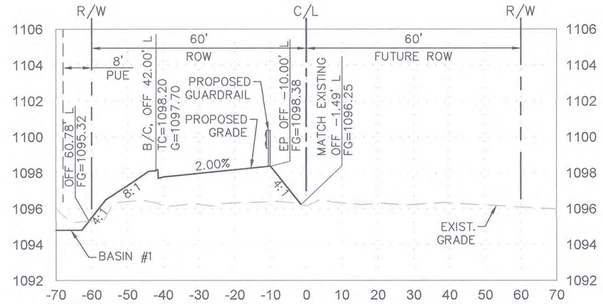
PROJECT NUMBER	SHEET NUMBER	
2014-071	□S07	118 OF 125

PLOT DATE: Dec 13, 2017

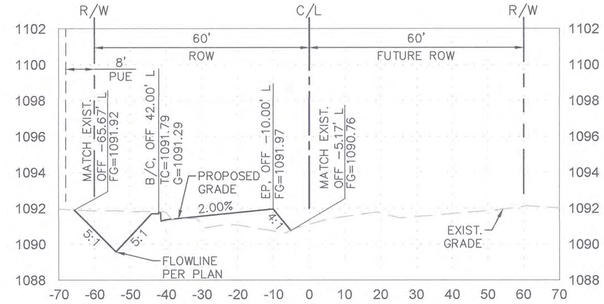
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\118-215035-XS07.dwg



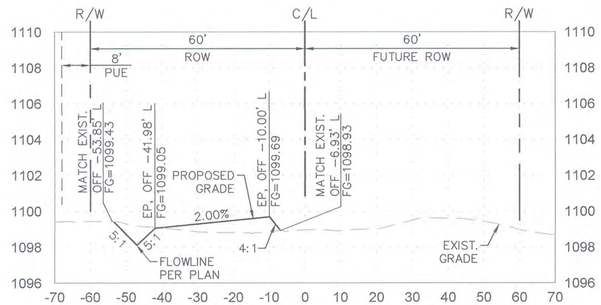
VAN BUREN STREET STA 19+00.00



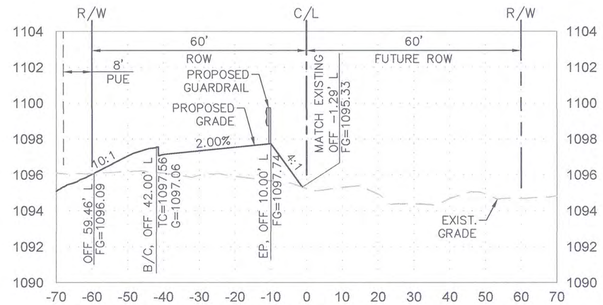
VAN BUREN STREET STA 23+00.00



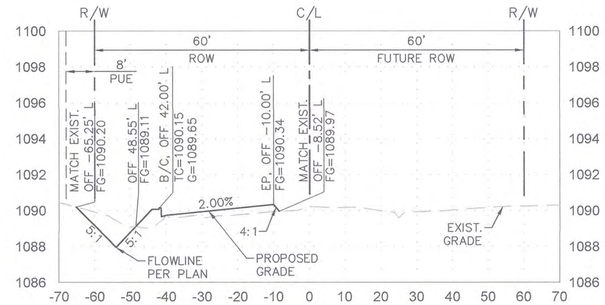
VAN BUREN STREET STA 27+00.00



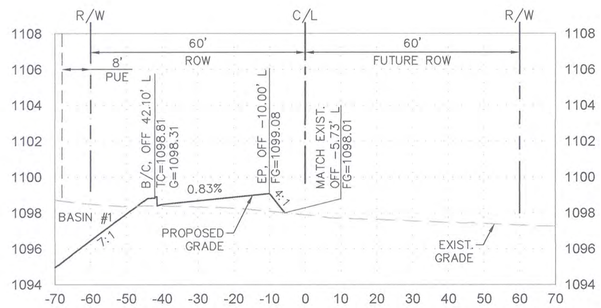
VAN BUREN STREET STA 20+00.00



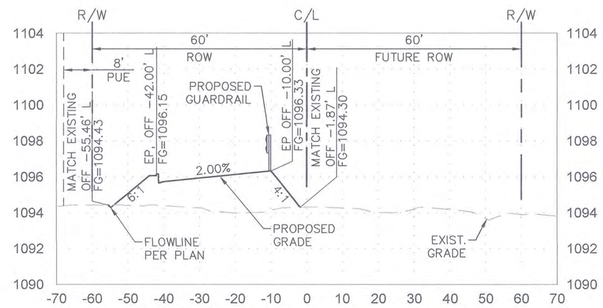
VAN BUREN STREET STA 24+00.00



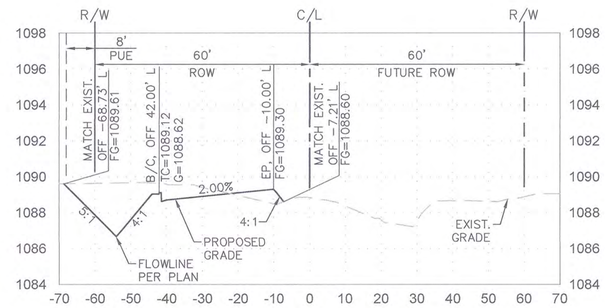
VAN BUREN STREET STA 28+00.00



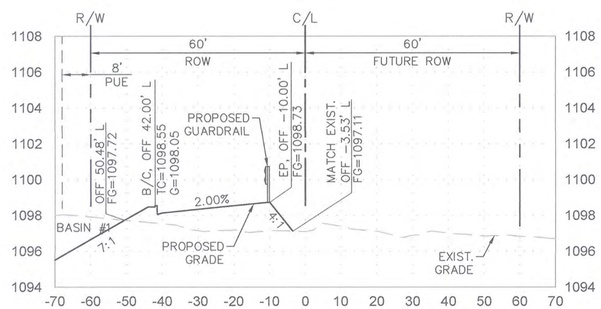
VAN BUREN STREET STA 21+00.00



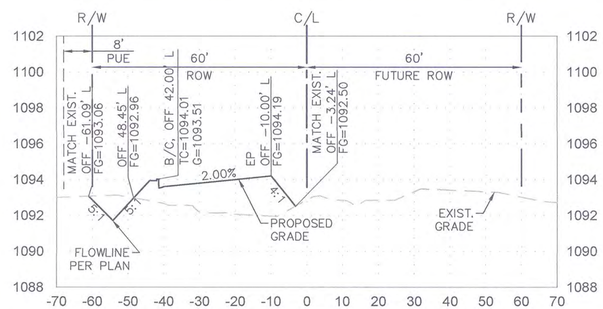
VAN BUREN STREET STA 25+00.00



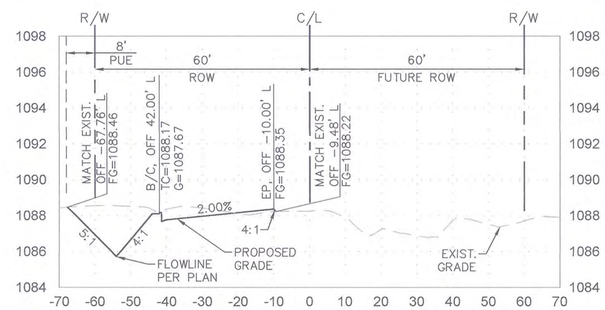
VAN BUREN STREET STA 29+00.00



VAN BUREN STREET STA 22+00.00



VAN BUREN STREET STA 26+00.00



VAN BUREN STREET STA 30+00.00

0 10 20 40

HORIZONTAL 1" = 20'
VERTICAL 1" = 4'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

ROADWA□ CROSS SECTIONS

ENGINEER INFORMATION

RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL

23232
PETER H. HEMINGWAY
REGISTERED PROFESSIONAL ENGINEER
ARIZONA, U.S.A.
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

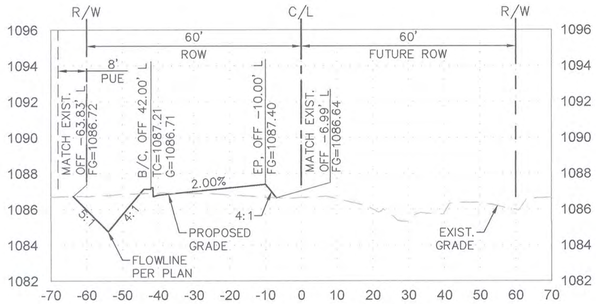
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

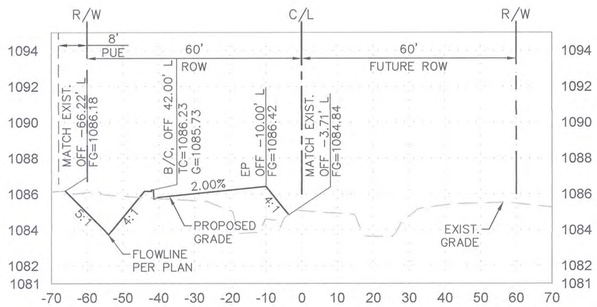
PROJECT NUMBER	SHEET NUMBER	
2014-071	□S08	119 OF 125

PLOT DATE: Dec 13, 2017

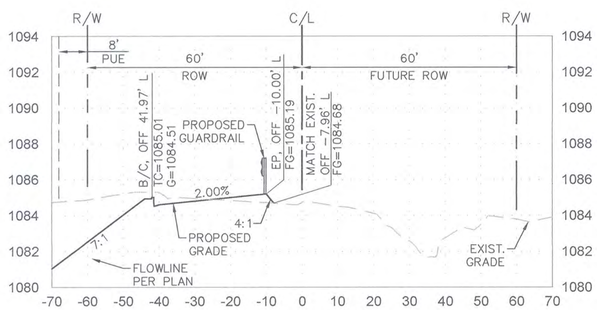
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\119-215035-XS08.dwg



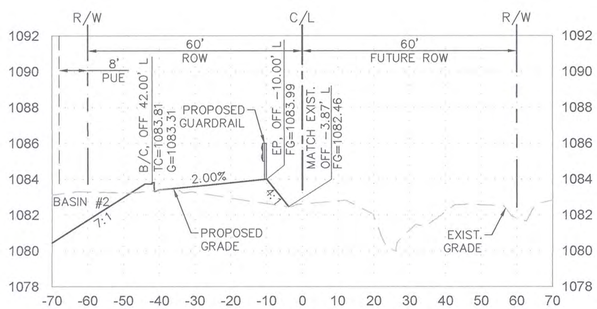
VAN BUREN STREET STA 31+00.00



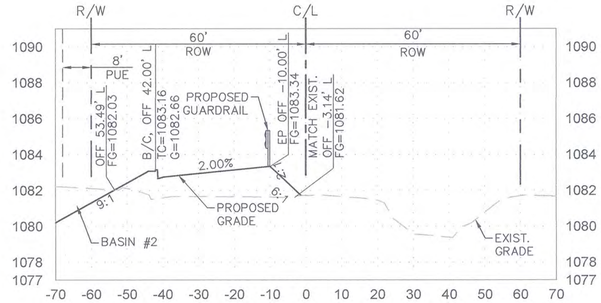
VAN BUREN STREET STA 32+00.00



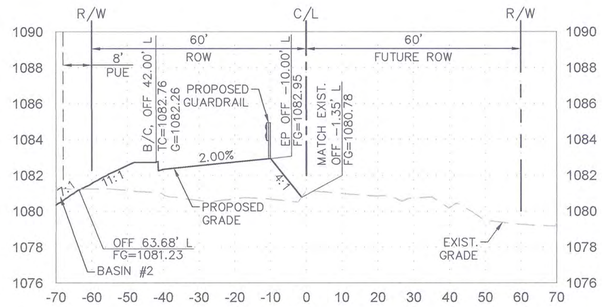
VAN BUREN STREET STA 33+00.00



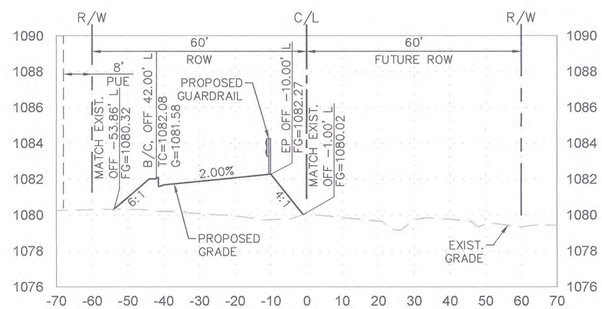
VAN BUREN STREET STA 34+00.00



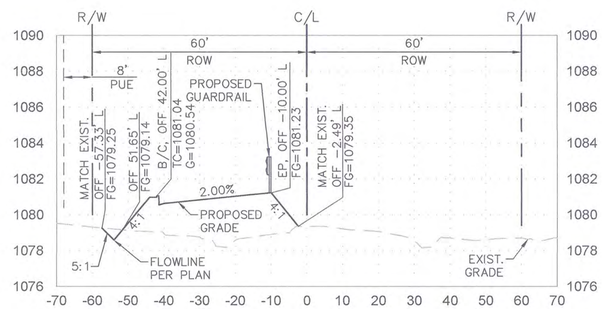
VAN BUREN STREET STA 35+00.00



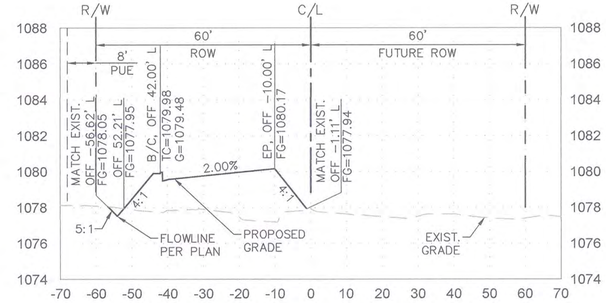
VAN BUREN STREET STA 36+00.00



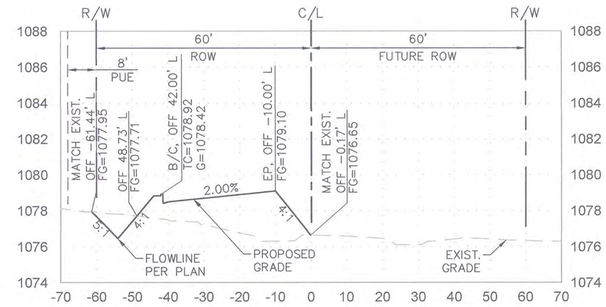
VAN BUREN STREET STA 37+00.00



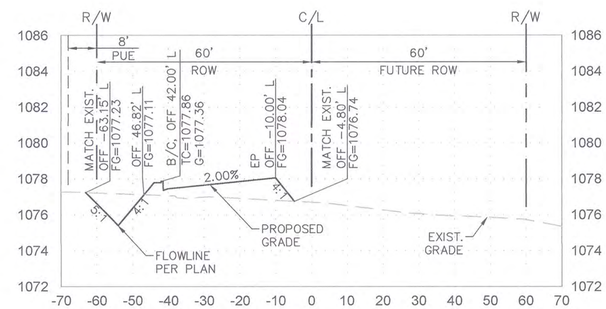
VAN BUREN STREET STA 38+00.00



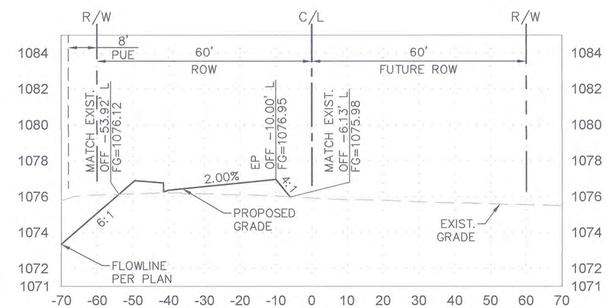
VAN BUREN STREET STA 39+00.00



VAN BUREN STREET STA 40+00.00



VAN BUREN STREET STA 41+00.00



VAN BUREN STREET STA 42+00.00

0 10 20 40

HORIZONTAL 1" = 20'
VERTICAL 1" = 4'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

ROADWAY CROSS SECTIONS

ENGINEER INFORMATION

RPA RITOCH-POWELL & Associates 602-263-1177 WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL

23232 PETER H. HEMINGWAY ARIZONA, U.S.A. Date Signed 12/11/2017 EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

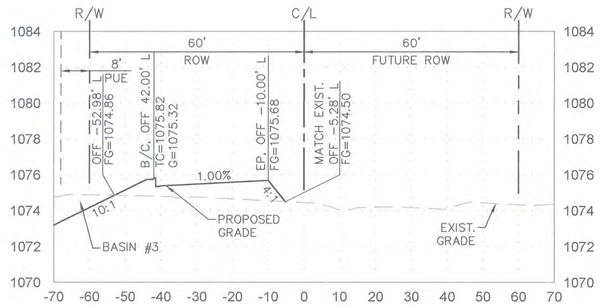
COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

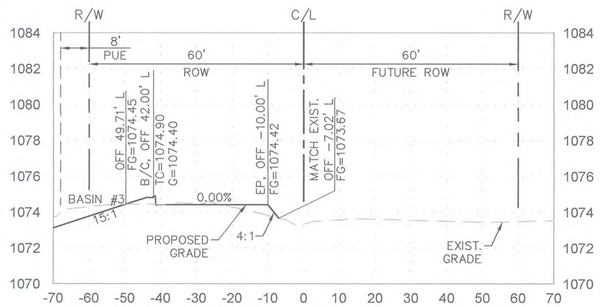
PROJECT NUMBER	SHEET NUMBER	
2014-071	S09	120 OF 125

PLOT DATE: Dec 13, 2017

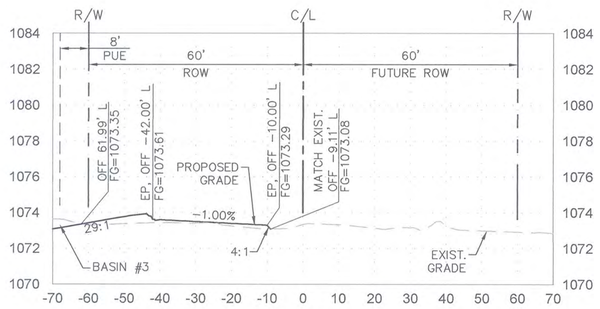
FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\120-215035-XS09.dwg



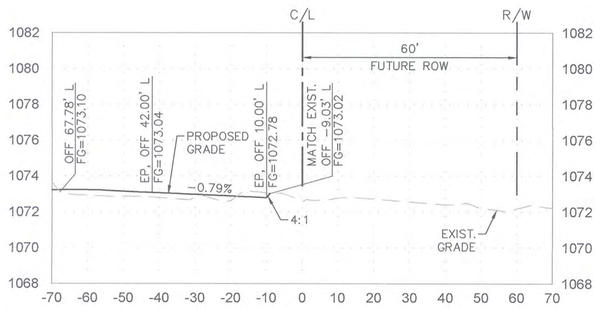
VAN BUREN STREET STA 43+00.00



VAN BUREN STREET STA 44+00.00



VAN BUREN STREET STA 45+00.00



VAN BUREN STREET STA 46+00.00

0 10 20 40

HORIZONTAL 1" = 20'
VERTICAL 1" = 4'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME

ROOSEVELT STREET IMPROVEMENT DISTRICT

ROADWA□ CROSS SECTIONS

ENGINEER INFORMATION

RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

23232
PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

ORIGINAL PLAN DATE 12-27-2016	LATEST REVISION DATE 12-11-17
PROJECT NUMBER 2014-071	SHEET NUMBER □S10 121 OF 125

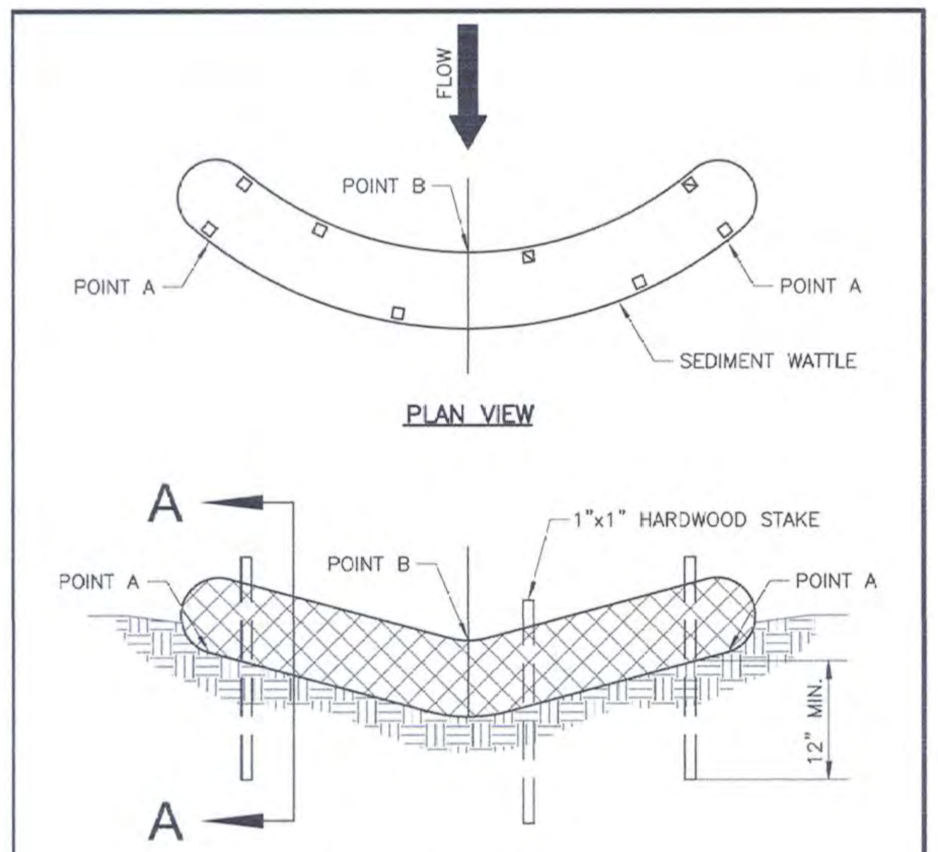
SUBMITTAL: 3RD SUBMITTAL

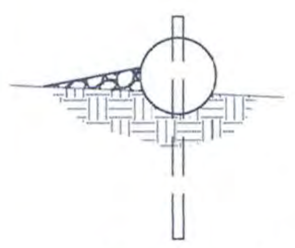
COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\121-215035-XS10.dwg



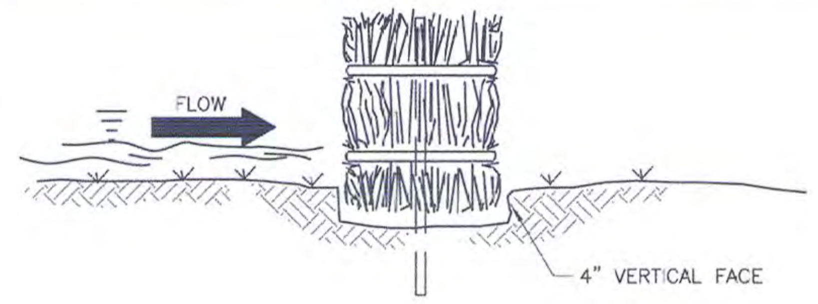


NOTES:

1. SEDIMENT WATTLES SHALL BE EMBEDDED 1/3 THE DIAMETER OF THE WATTLE INTO THE SOIL.
2. STAKES SHALL BE EMBEDDED TO A MINIMUM OF 12 INCHES.
3. SEDIMENT WATTLES SHALL BE TIGHTLY ABUTTED WITH NO GAPS.

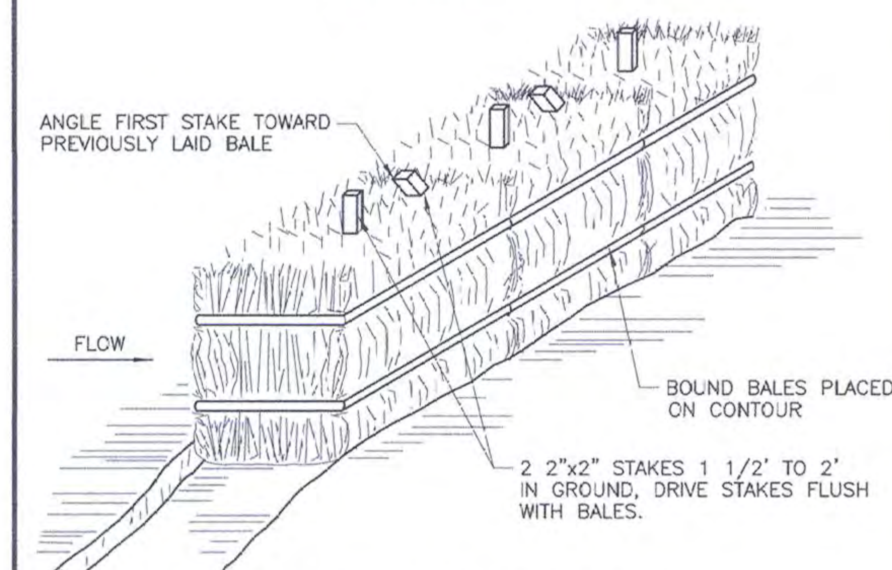
SEDIMENT WATTLE DITCH INSTALLATION

BMP-WATTLE



* PROMOTES ON SITE SEDIMENTATION BY CREATING A TEMPORARY POND.

BEDDING DETAIL

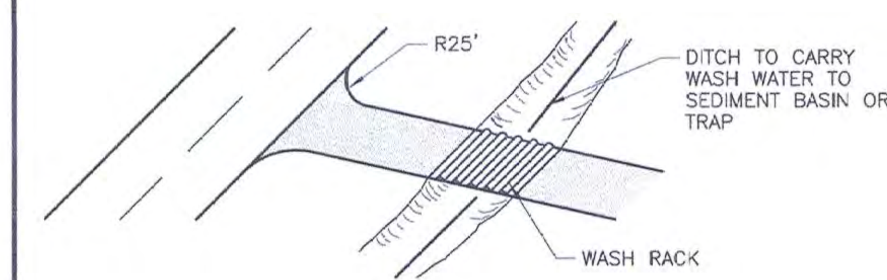


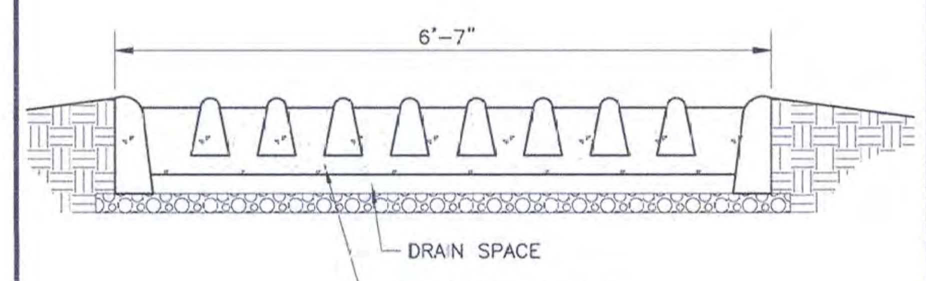
SUBSTITUTION OF STEEL BARS FOR WOODEN STAKES IS NOT RECOMMENDED DUE TO POTENTIAL FOR DAMAGING CONSTRUCTION EQUIPMENT

ANCHORING DETAIL

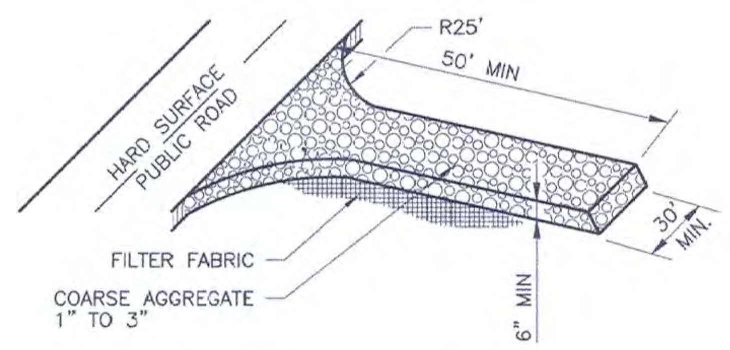
ORGANIC FILTER BARRIERS

SPC-1



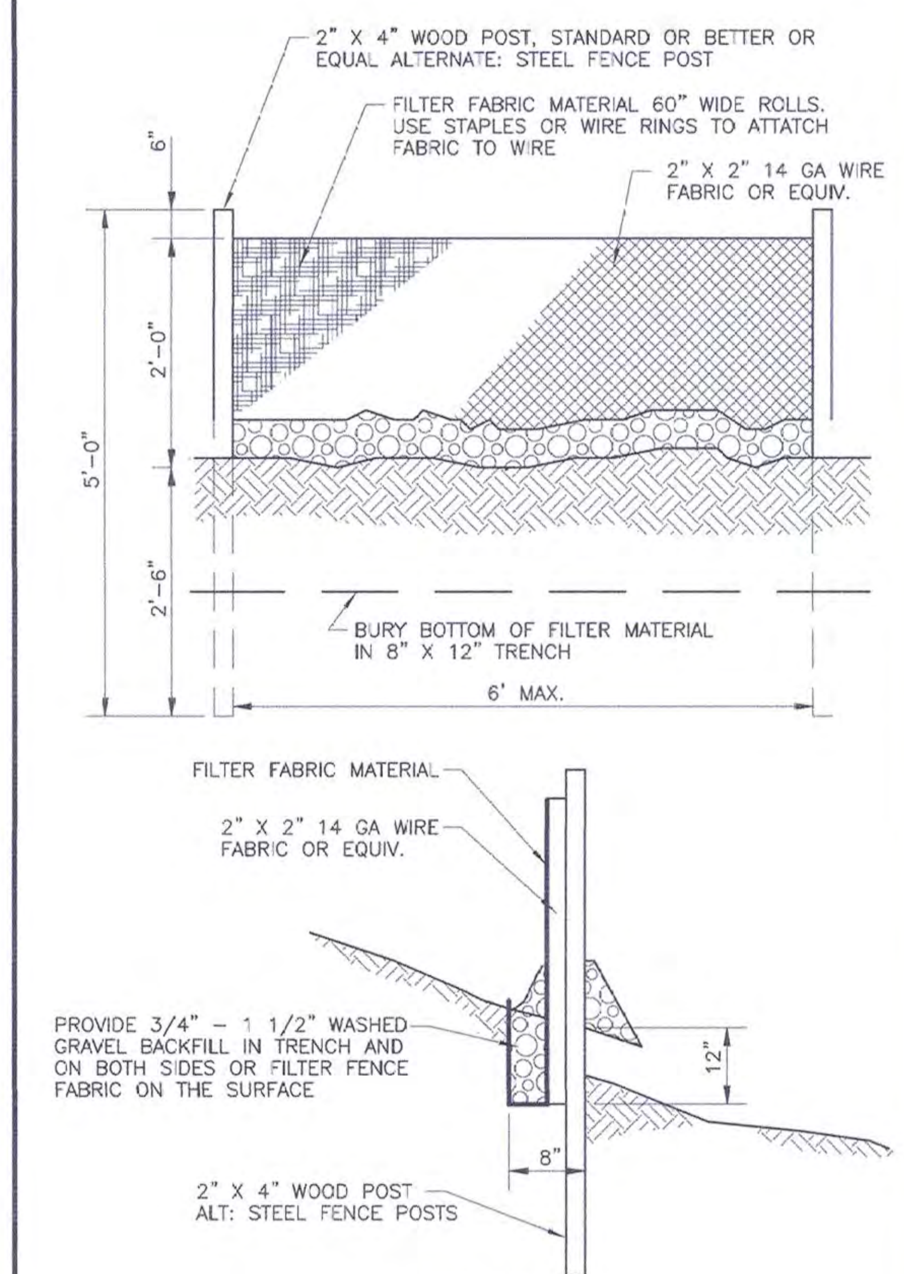


WASH RACK



STABILIZED CONSTRUCTION ENTRANCE

BMP-35

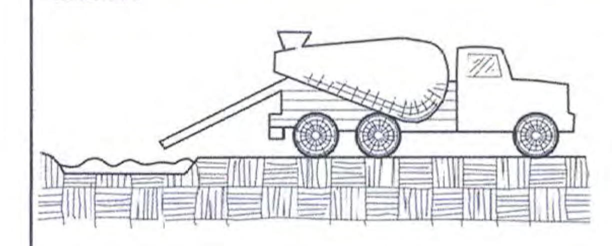


SILT FENCE

BMP-67

SYMBOL	DESIGNATED WASHOUT AREA (BMP 23)	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY 1 OF 2
W.A.		

DIAGRAM



CONDITIONS WHERE PRACTICE APPLIES

- ___ PERIMETER CONTROL
- ___ SLOPE PROTECTION
- ___ SEDIMENT TRAPPING
- ___ DRAINAGEWAY & STREAM PROTECTION
- ___ TEMPORARY STABILIZATION
- ___ PERMANENT STABILIZATION & EXPOSURE LIMITS
- x NON-SEDIMENT POLLUTION CONTROL

A temporary pit or bermed area for washout of concrete trucks, tools, mortar mixers, etc.

PURPOSE

Improper washout of concrete trucks, tools, etc. may allow fresh concrete or cement laden mortar to enter a storm drainage system.

APPROPRIATE APPLICATIONS

Effective when vehicles, tools and mixers can be moved to the pit location. Where this is not practical, temporary ponds may be constructed to allow for settling and hardening of cement and aggregates. Washout area/pits are appropriate for minor amounts of wash water which result from cleaning of aggregate materials of concrete trucks, tools, etc.

PLANNING CONSIDERATIONS

1. Wash out into a slurry pit which will later be backfilled. Do this only with the approval of the property owner.
2. Wash out into a temporary pit where the concrete wash can harden, be broken up and then properly disposed of off-site.

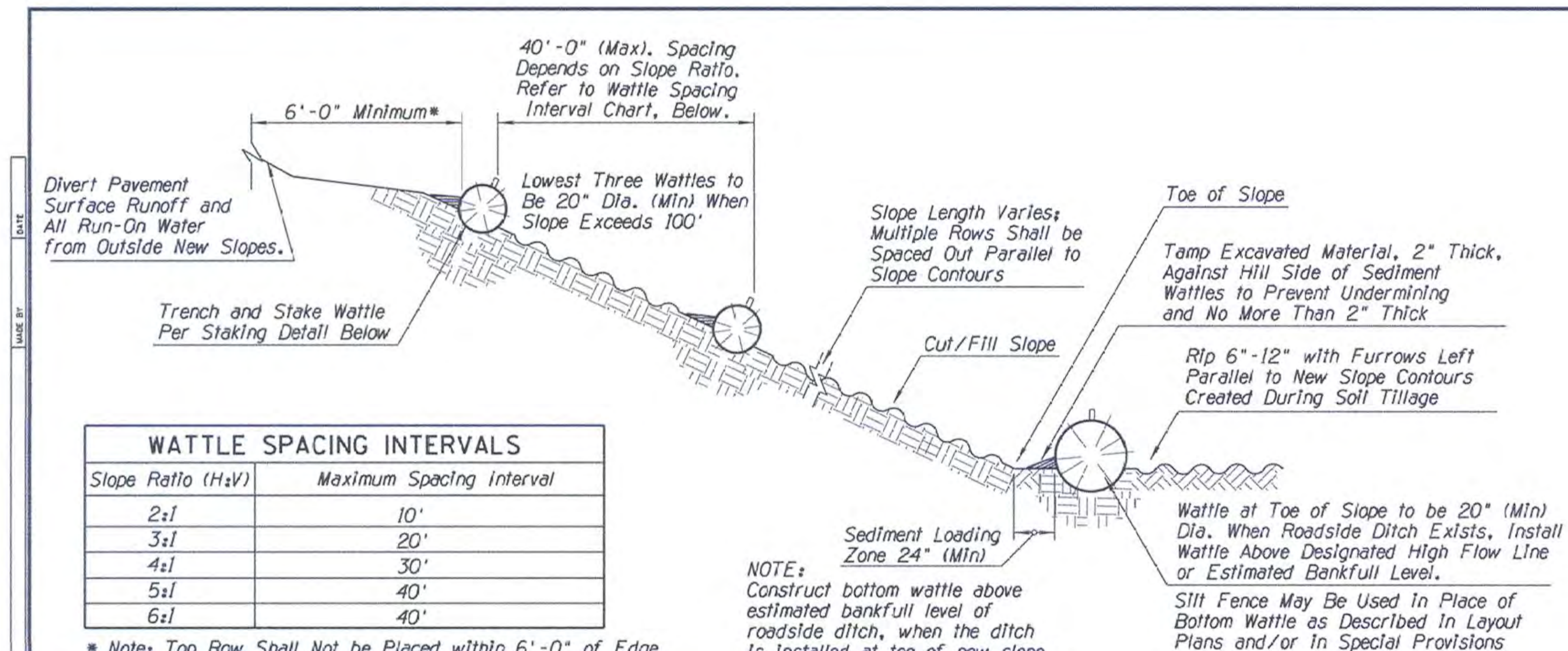
	DESIGNATED WASHOUT AREA (BMP 23)	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY 2 OF 2
W.A.		

1. Locate wash out pits away from storm drains, open ditches or

2. DO NOT wash out concrete trucks into storm drains, sanitary sewers,

Properly dispose of hardened concrete products on a routine basis to prevent the buildup of waste materials to an unmanageable size and to

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				

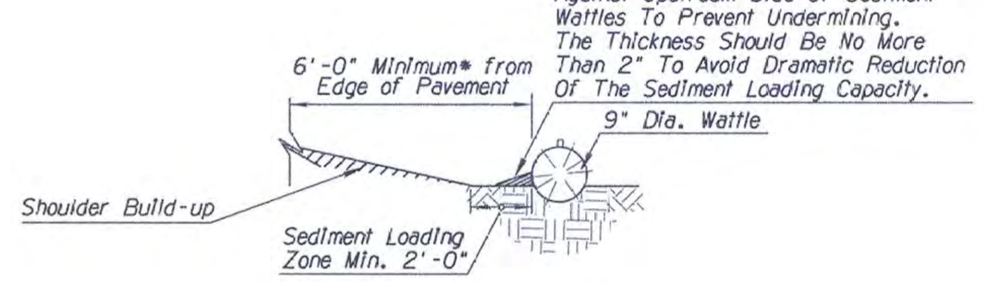


WATTLE SPACING INTERVALS

Slope Ratio (H:V)	Maximum Spacing Interval
2:1	10'
3:1	20'
4:1	30'
5:1	40'
6:1	40'

* Note: Top Row Shall Not be Placed within 6'-0" of Edge of Pavement and 9'-0" from Outside Surface of Barrier

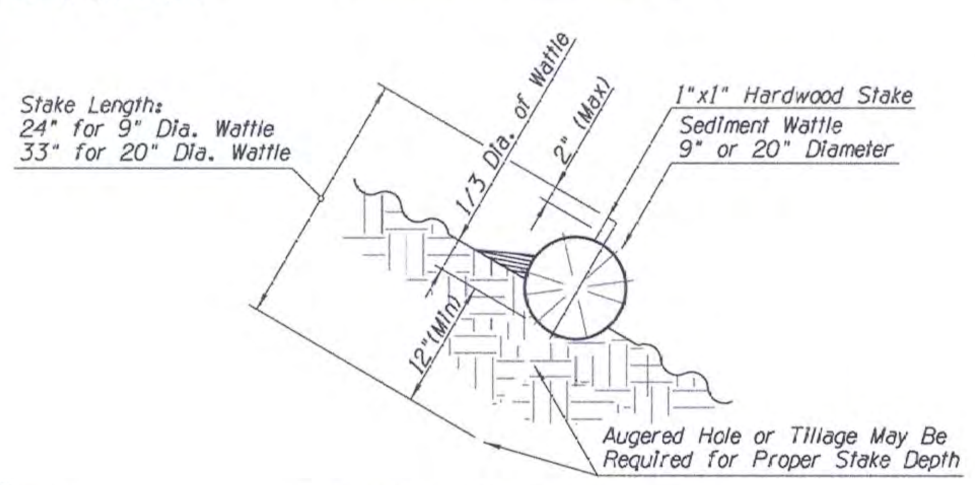
SECTION (NTS)



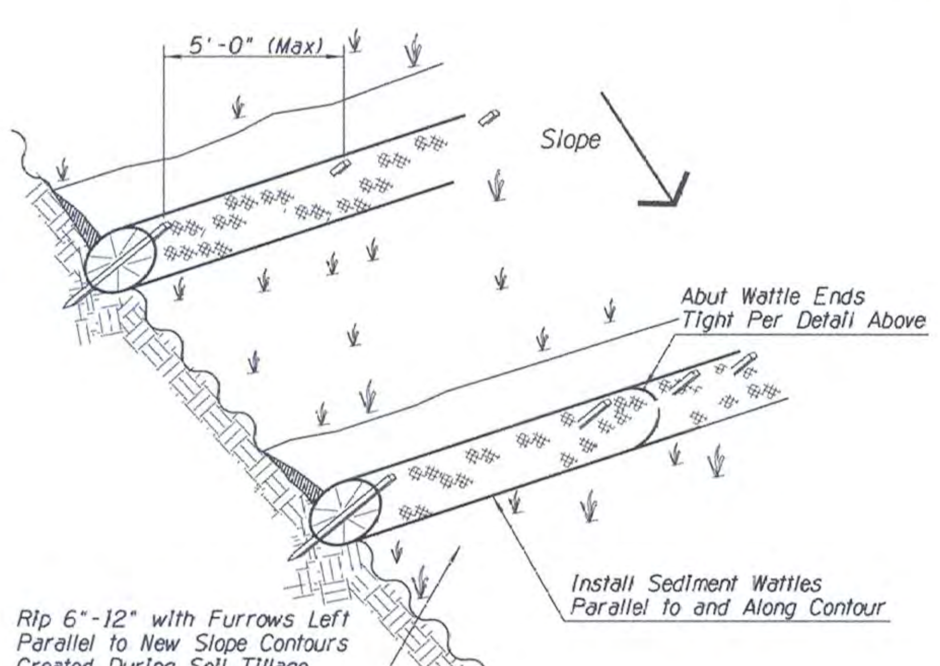
NEW SHOULDER BUILDUP PROTECTION SECTION (NTS)

NOTES:

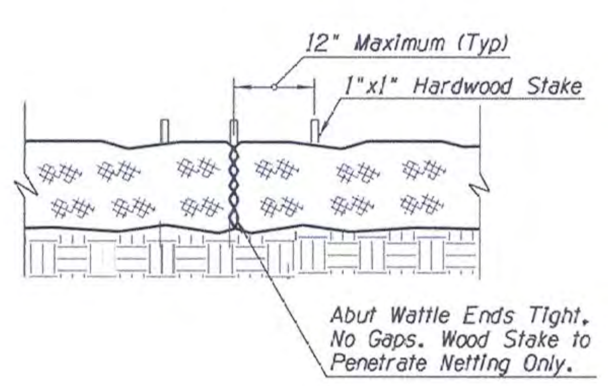
1. Install Sediment Wattles as slopes are constructed to grade or as directed by the Engineer. Select, Install and maintain in conformance with manufacturers' specifications to meet site conditions for slope protection and in accordance with good engineering practices. No Sediment Wattles shall be installed in urban freeway medians, nor where cable barrier systems are employed.
2. Sediment Wattles shall be in continuous contact with trench bottom and sides. Do not overlap wattle ends on top of each other. A 20" Dia. wattle may be made from 2-3 rolled excelsior or straw blankets.
3. Butt adjoining wattles tightly against each other. Drive the first end stake of the second wattle at an angle toward the first wattle to help abut them tightly.
4. Repair any rills or gullies promptly. Field adjust and correct Wattle BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.
5. Construction of cut slopes 2:1 and steeper in soil and rock materials that can be ripped shall be constructed, whenever possible, by Minibenching. Refer to Slope Minibenching Detail.
6. Loosening surface soil is not required where Minibenches are used. For seeded areas, tillage shall be performed to form minor ridges and furrows parallel to new slope contours and as specified in Section 805 of the Standard Specifications.
7. Divert and direct run-on water from outside of the slopes to the spillways and/or rock riprap/rock mulch. Diversion dikes and/or ditches are necessary on natural undisturbed slopes beyond the top limits of new slopes to divert run-on water.
8. Installation and maintenance of Sediment Wattle BMPs shall not negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities.
9. Install and maintain Sediment Wattle BMPs to carry the stormwater of at least 2-year, 24-hour events.
10. The Sediment Wattle BMP's pay/bid item shall include all materials used for this BMP; all ground preparation, furnishing, installing, maintenance, final removal, and disposal of this temporary BMP, as well as returning the area to an acceptable condition as approved by the Engineer.
11. Refer to Standard Specification Section 810-2.06(C) for Sediment Wattle material specifications.



SEDIMENT WATTLE STAKING DETAIL (NTS)



SEDIMENT WATTLE LAYOUT (NTS)



SEDIMENT WATTLE OVERLAP (NTS)

DETAIL ES3

SEDIMENT WATTLE

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADSIDE DEVELOPMENT SECTION
DESIGN	TAO ZI FONG	5-2011	
DESIGN	HAN MENG	5-2011	
DRAWN	TAO ZI FONG	5-2011	STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS
DRAWN	HAN MENG	5-2011	
CHECKED	E LEROY BRADY	5-2011	
TEAM LEADER	E LEROY BRADY	5-2011	
ROUTE	MP	LOCATION	

TRACS NO. SHEET ___ OF ___

V:/ROADSIDE\users\bl525\ 2:57:29 PM 4/26/2011 V:\Roadside\RdsdDev\ERO_BMPs\RDS_Updated_BMPs\ES3_Sediment_Wattle.dgn

△1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT
STORM WATER POLLUTION PREVENTION PLAN

ENGINEER INFORMATION: RPA RITOCH-POWELL & Associates 602-263-1177 WWW.RPAENG.COM

SUBMITTAL: 3RD SUBMITTAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL: APPROVED JAN 17 2018 CITY OF BUCKEYE ENGINEERING

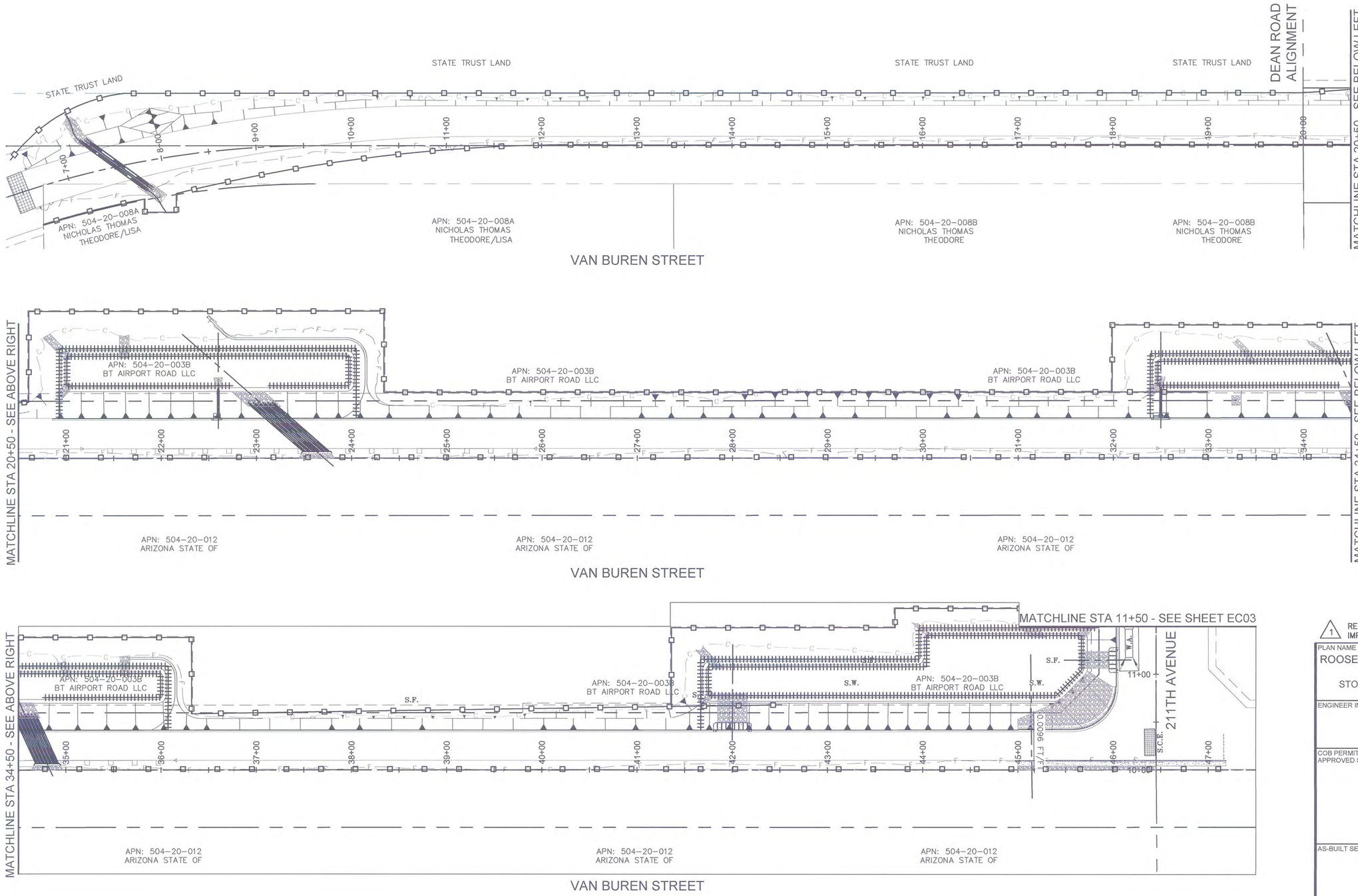
AS-BUILT SEAL

DESIGN SEAL: Registered Professional Engineer (Civil) Certificate No. 23232 PETER H. HEMINGWAY Date Signed 12/11/2017 ARIZONA, U.S.A. EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

ORIGINAL PLAN DATE	LATEST REVISION DATE	
12-27-2016	12-11-17	
PROJECT NUMBER	SHEET NUMBER	
2014-071	EC01	122 OF 125



BMP LEGEND

- S.W. — SEDIMENT WATTLE (BMP-WATTLE)
- S.F. — SILT FENCE (BMP-67)
- DRAINAGE SWALE WITH TRANSVERSE SEDIMENT WATTLES @ 50' O.C. (BMP-WATTLES)
- EXISTING FLOW DIRECTION
- PROPOSED FLOW DIRECTION
- S.C.E. — STABILIZED CONSTRUCTION ENTRANCE (BMP-35)
- W.A. — DESIGNATED WASHOUT AREA (BMP-23)

BMP NOTES

1. PERMANENT BMP: REPLACE ALL SEDIMENT WATTLES WITH NEW STRAW WATTLES AT THE COMPLETION OF CONSTRUCTION AND BEFORE COMMENCEMENT OF OVERSEEDING.
2. OVERSEEDING SHALL AT A MINIMUM EXTEND TO LIMITS OF SILT FENCE AS SHOWN ON THESE PLANS AND TO ANY DISTURBED AREA. SILT FENCE TO BE REMOVED PRIOR TO PROJECT COMPLETION.
3. RIPRAP TO BE INSTALLED AT ALL DRAINAGE INLETS AND OUTLETS AS SHOWN ON PLANS (INCLUDING SWALE AND WASH CONVERGENCIES) IMMEDIATELY AFTER THEY ARE CONSTRUCTED AND PRIOR TO ANY RAIN EVENT.

N

0 25 50 100

HORIZONTAL 1" = 50'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT

STORM WATER POLLUTION PREVENTION PLAN

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
ARIZONA, U.S.A.
EXPIRES 03/31/2018

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17
PROJECT NUMBER	SHEET NUMBER
2014-071	EC02

123 OF 125

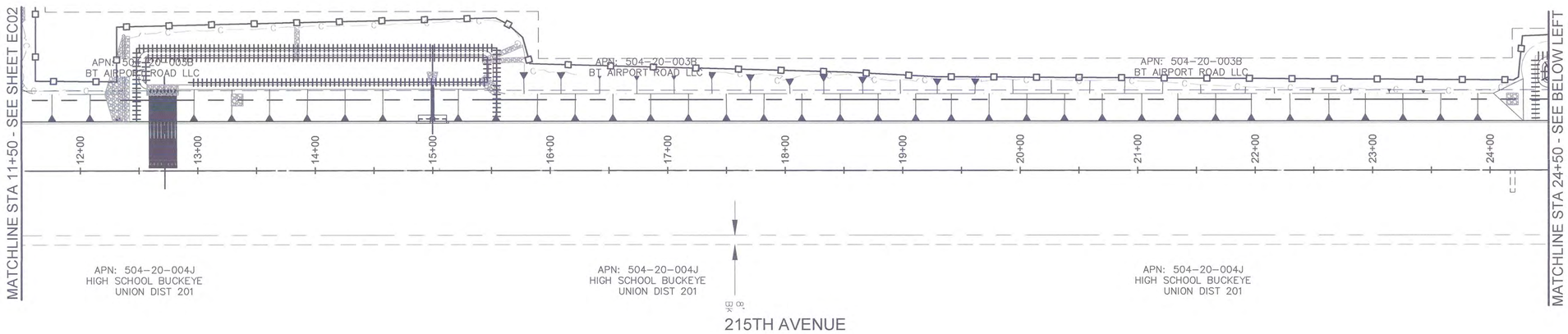
SUBMITTAL: 3RD SUBMITTAL

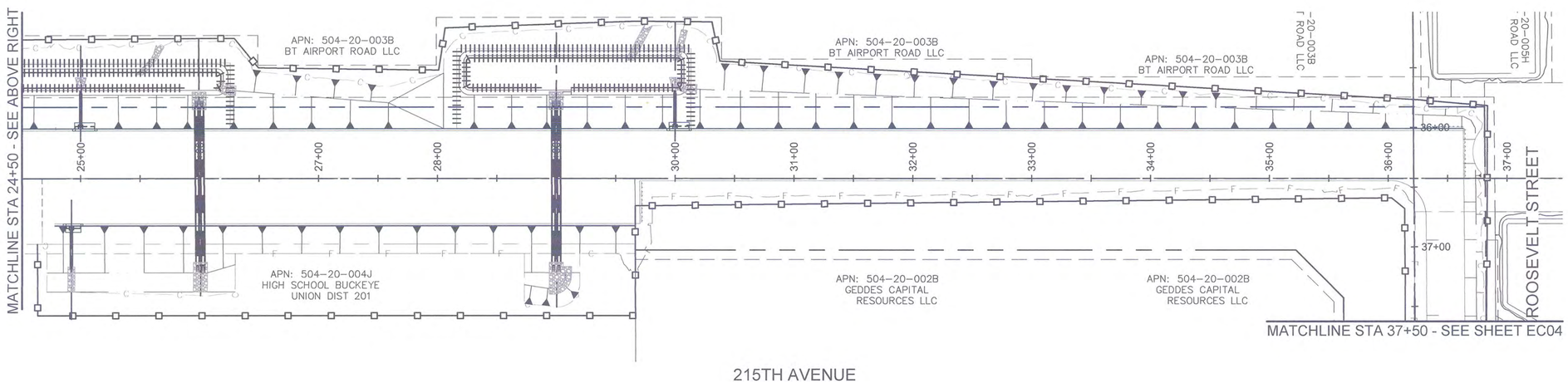
COB PLAN TRACKING # ENG-16-00003

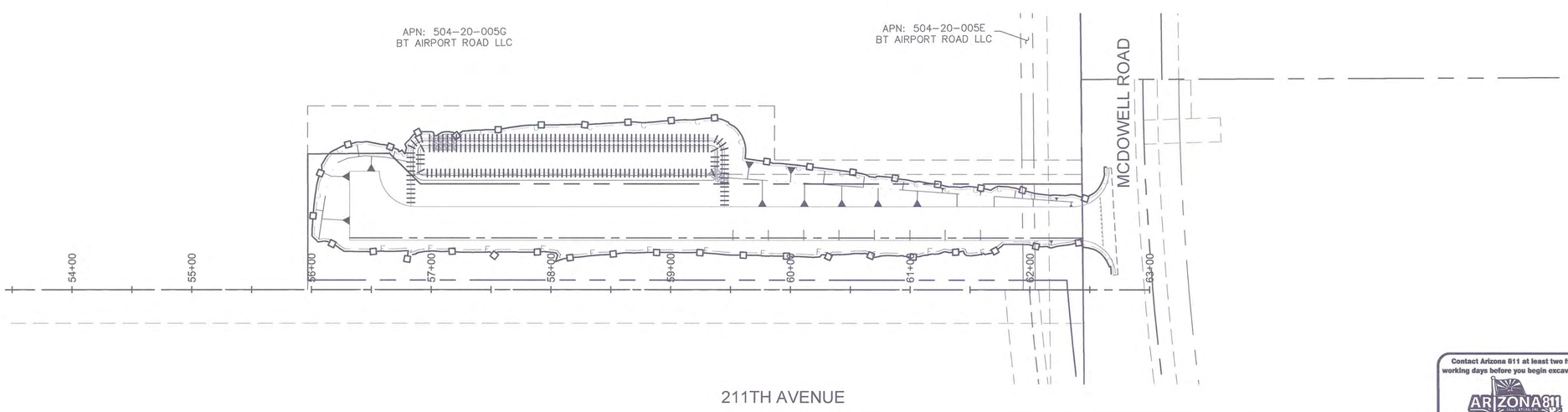
COB PERMIT #

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\123-215035-EC02.dwg







BMP LEGEND

- S.W. — SEDIMENT WATTLE (BMP-)
- S.F. — SILT FENCE (BMP-67)
- DRAINAGE SWALE WITH TRANSVERSE SEDIMENT WATTLES @ 50' O.C. (BMP-WATTLES)
- EXISTING FLOW DIRECTION
- PROPOSED FLOW DIRECTION
- S.C.E. — STABILIZED CONSTRUCTION ENTRANCE (BMP-35)
- W.A. — DESIGNATED WASHOUT AREA (BMP-23)

BMP NOTES

1. PERMANENT BMP: REPLACE ALL SEDIMENT WATTLES WITH NEW STRAW WATTLES AT THE COMPLETION OF CONSTRUCTION AND BEFORE COMMENCEMENT OF OVERSEEDING.
2. OVERSEEDING SHALL AT A MINIMUM EXTEND TO LIMITS OF SILT FENCE AS SHOWN ON THESE PLANS AND TO ANY DISTURBED AREA. SILT FENCE TO BE REMOVED PRIOR TO PROJECT COMPLETION.
3. RIPRAP TO BE INSTALLED AT ALL DRAINAGE INLETS AND OUTLETS AS SHOWN ON PLANS (INCLUDING SWALE AND WASH CONVERGENCIES) IMMEDIATELY AFTER THEY ARE CONSTRUCTED AND PRIOR TO ANY RAIN EVENT.

N

0 25 50 100

HORIZONTAL 1" = 50'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT

STORM WATER POLLUTION PREVENTION PLAN

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

SUBMITTAL: 3RD SUBMITTAL

AS-BUILT SEAL

DESIGN SEAL
23232 PETER H. HEMINGWAY
EXPIRES 03/31/2018

COB PLAN TRACKING # ENG-16-00003

COB PERMIT #

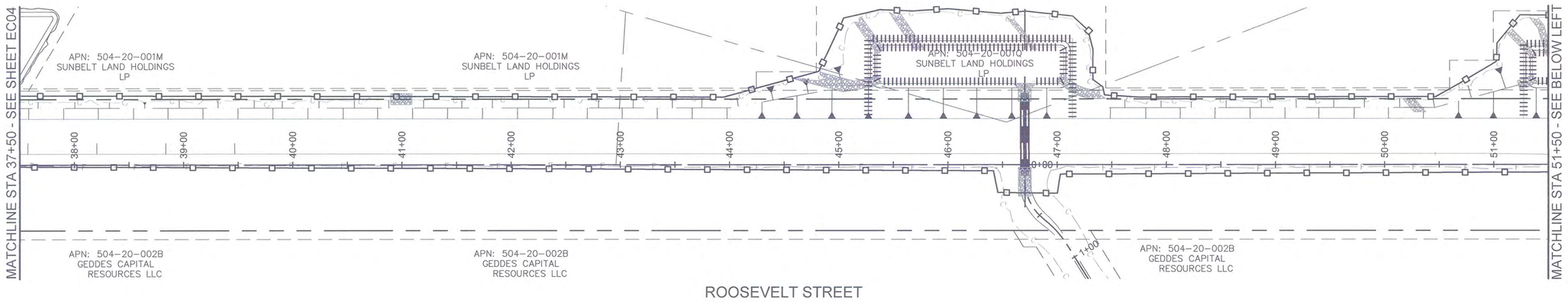
ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

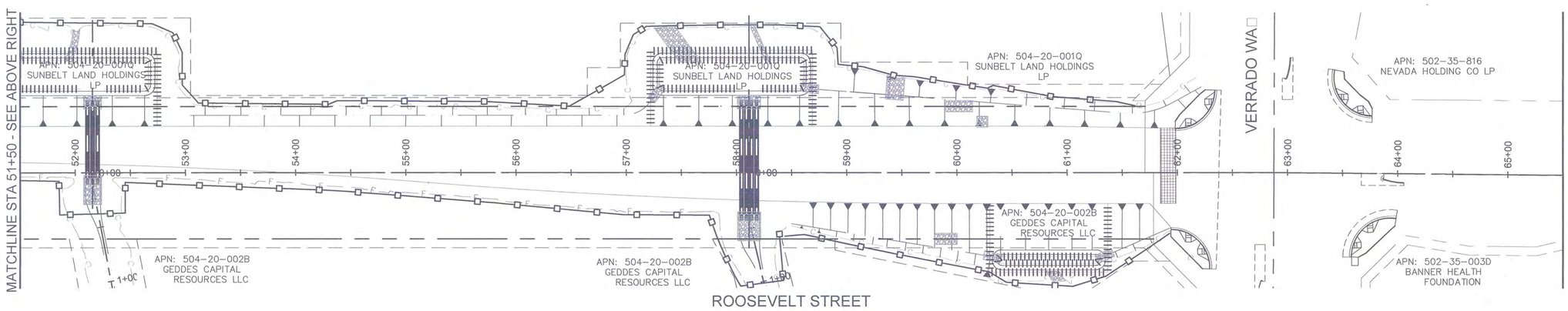
PROJECT NUMBER	SHEET NUMBER	
2014-071	EC03	124 OF 125

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\124-215035-EC03.dwg





BMP LEGEND

- S.W. — SEDIMENT WATTLE (BMP-)
- S.F. — SILT FENCE (BMP-67)
- DRAINAGE SWALE WITH TRANSVERSE SEDIMENT WATTLES @ 50' O.C. (BMP-WATTLES)
- EXISTING FLOW DIRECTION
- PROPOSED FLOW DIRECTION
- S.C.E. — STABILIZED CONSTRUCTION ENTRANCE (BMP-35)
- W.A. — DESIGNATED WASHOUT AREA (BMP-23)

BMP NOTES

1. PERMANENT BMP; REPLACE ALL SEDIMENT WATTLES WITH NEW STRAW WATTLES AT THE COMPLETION OF CONSTRUCTION AND BEFORE COMMENCEMENT OF OVERSEEDING.
2. OVERSEEDING SHALL AT A MINIMUM EXTEND TO LIMITS OF SILT FENCE AS SHOWN ON THESE PLANS AND TO ANY DISTURBED AREA. SILT FENCE TO BE REMOVED PRIOR TO PROJECT COMPLETION.
3. RIPRAP TO BE INSTALLED AT ALL DRAINAGE INLETS AND OUTLETS AS SHOWN ON PLANS (INCLUDING SWALE AND WASH CONVERGENCIES) IMMEDIATELY AFTER THEY ARE CONSTRUCTED AND PRIOR TO ANY RAIN EVENT.

N

0 25 50 100
HORIZONTAL 1" = 50'

1 REVISED PROJECT LIMITS. ROOSEVELT STREET IMPROVEMENTS EAST TUTHILL RD. ALIGNMENT REMOVED.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

PLAN NAME
ROOSEVELT STREET IMPROVEMENT DISTRICT

STORM WATER POLLUTION PREVENTION PLAN

ENGINEER INFORMATION
RPA RITOCH-POWELL & Associates
602-263-1177
WWW.RPAENG.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL
APPROVED
JAN 17 2018
CITY OF BUCKEYE ENGINEERING

AS-BUILT SEAL

DESIGN SEAL
23232
PETER H. HEMINGWAY
ARIZONA U.S.A.
EXPIRES 03/31/2018

ORIGINAL PLAN DATE	LATEST REVISION DATE
12-27-2016	12-11-17

PROJECT NUMBER	SHEET NUMBER	
2014-071	EC04	125 OF 125

SUBMITTAL: 3RD SUBMITTAL
COB PLAN TRACKING # ENG-16-00003
COB PERMIT #

PLOT DATE: Dec 13, 2017

FILE: P:\Projects\2015\215035 - City of Buckeye Engineering Services RSID\CAD Files\Sheets\125-215035-EC04.dwg