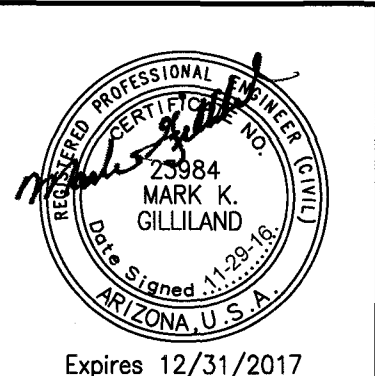
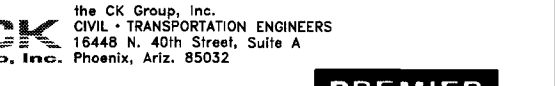
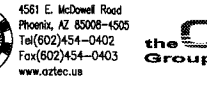



CITY OF PHOENIX
STREET TRANSPORTATION DEPARTMENT
DESIGN & CONSTRUCTION MANAGEMENT DIVISION
PAVING AND STORM DRAIN
AVENIDA RIO SALADO/BROADWAY ROAD - PHASE II
ST85100371



F.H.W.A. REGION	STATE	PROJECT NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85100371			

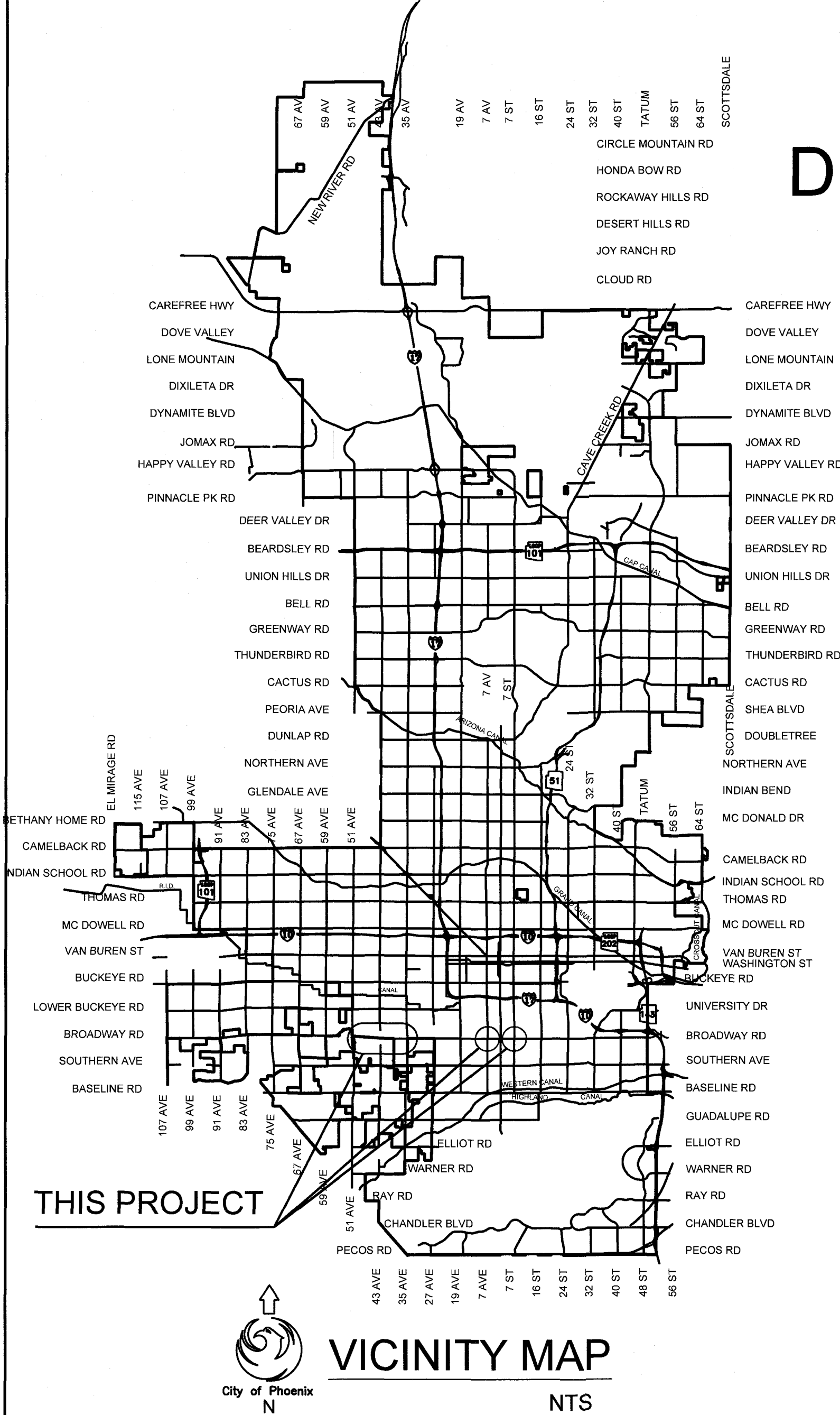
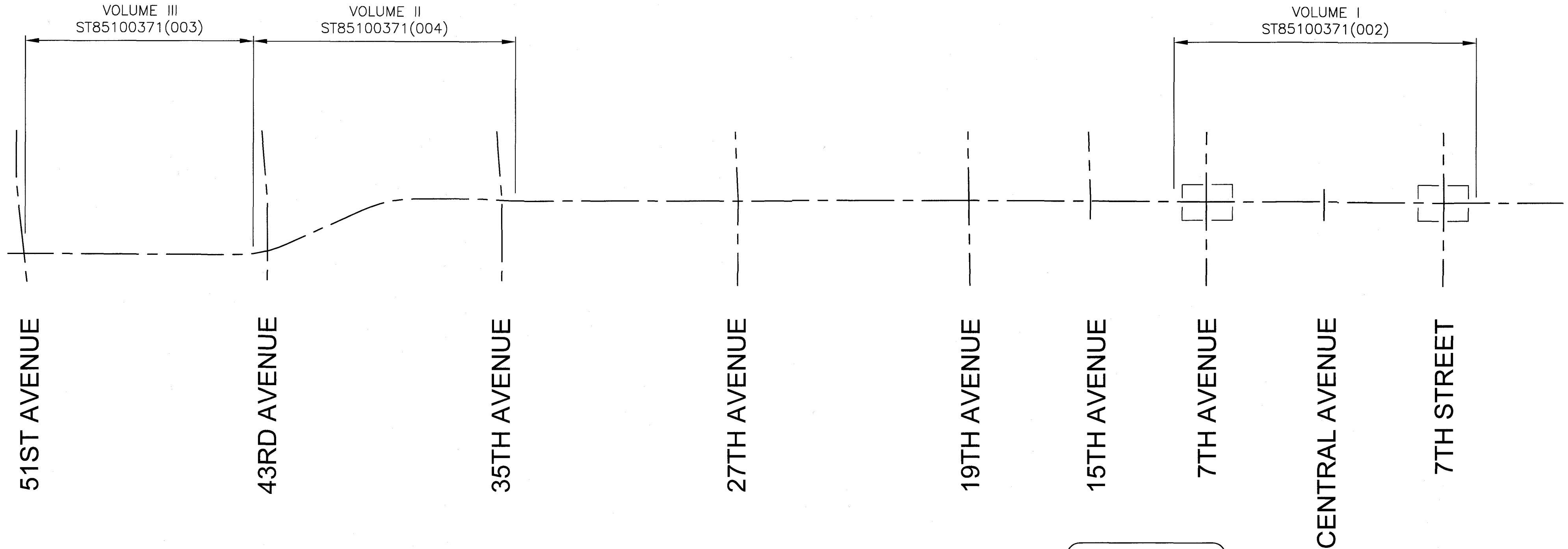


MAYOR
GREG STANTON
CITY MANAGER
ED ZUERCHER
CITY COUNCIL

- DISTRICT NO 1. THELDA WILLIAMS
- DISTRICT NO 2. JIM WARING
- DISTRICT NO 3. DEBRA STARK
- DISTRICT NO 4. LAURA PASTOR
- DISTRICT NO 5. DANIEL VALENZUELA
- DISTRICT NO 6. SAL DICICCIO
- DISTRICT NO 7. MICHAEL NOWAKOWSKI
- DISTRICT NO 8. KATE GALLEG0

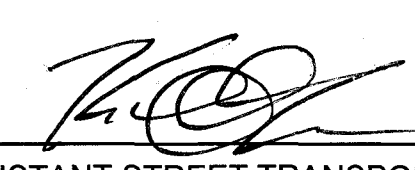
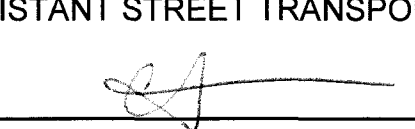
INDEX OF SHEETS

VOLUME	DESCRIPTION	
-	PROJECT COVER SHEET	
I	ST85100371 (002) AVENIDA RIO SALADO/BROADWAY ROAD: 7TH AVENUE & 7TH STREET	1-91
II	ST85100371 (004) AVENIDA RIO SALADO/BROADWAY ROAD: 43RD AVENUE TO 35TH AVENUE	1-164
III	ST85100371 (003) AVENIDA RIO SALADO/BROADWAY ROAD: 51ST AVENUE TO 43RD AVENUE	1-168
	TRAFFIC SIGNAL STANDARD DETAILS	1-19



COP INSPECTION STAMP

CITY PROJECT MANAGER _____
CITY INSPECTOR _____
CONTRACTOR _____
DATE OF FINAL COMPLETION _____

APPROVED  _____
ASSISTANT STREET TRANSPORTATION DIRECTOR
APPROVED  _____
DEPUTY STREET TRANSPORTATION DIRECTOR

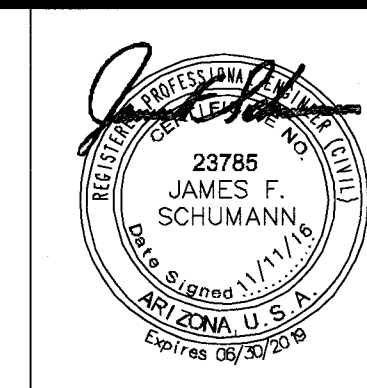
11/30/16
DATE
11-30-16
DATE



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

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

CITY OF PHOENIX
STREET TRANSPORTATION DEPARTMENT
DESIGN & CONSTRUCTION MANAGEMENT DIVISION
PAVING AND STORM DRAIN
AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)



F.H.W.A. REGION	STATE	PROJECT NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85100371(002)	01	91	

the CK Group, Inc.
CIVIL - TRANSPORTATION ENGINEERS
16448 N. 40th Street, Suite A
Phoenix, AZ 85018

MAYOR
GREG STANTON
CITY MANAGER
ED ZUERCHER
CITY COUNCIL

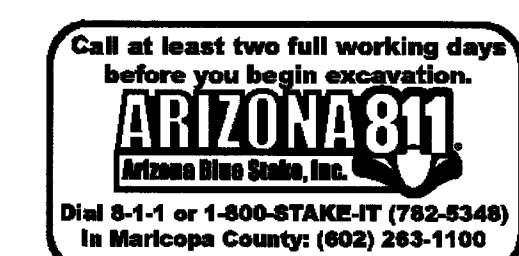
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DISTRICT NO 2. JIM WARING
DISTRICT NO 3. DEBRA STARK
DISTRICT NO 4. LAURA PASTOR
DISTRICT NO 5. DANIEL VALENZUELA
DISTRICT NO 6. SAL DICICCIO
DISTRICT NO 7. MICHAEL NOWAKOWSKI
DISTRICT NO 8. KATE GALLEGO

INDEX OF SHEETS

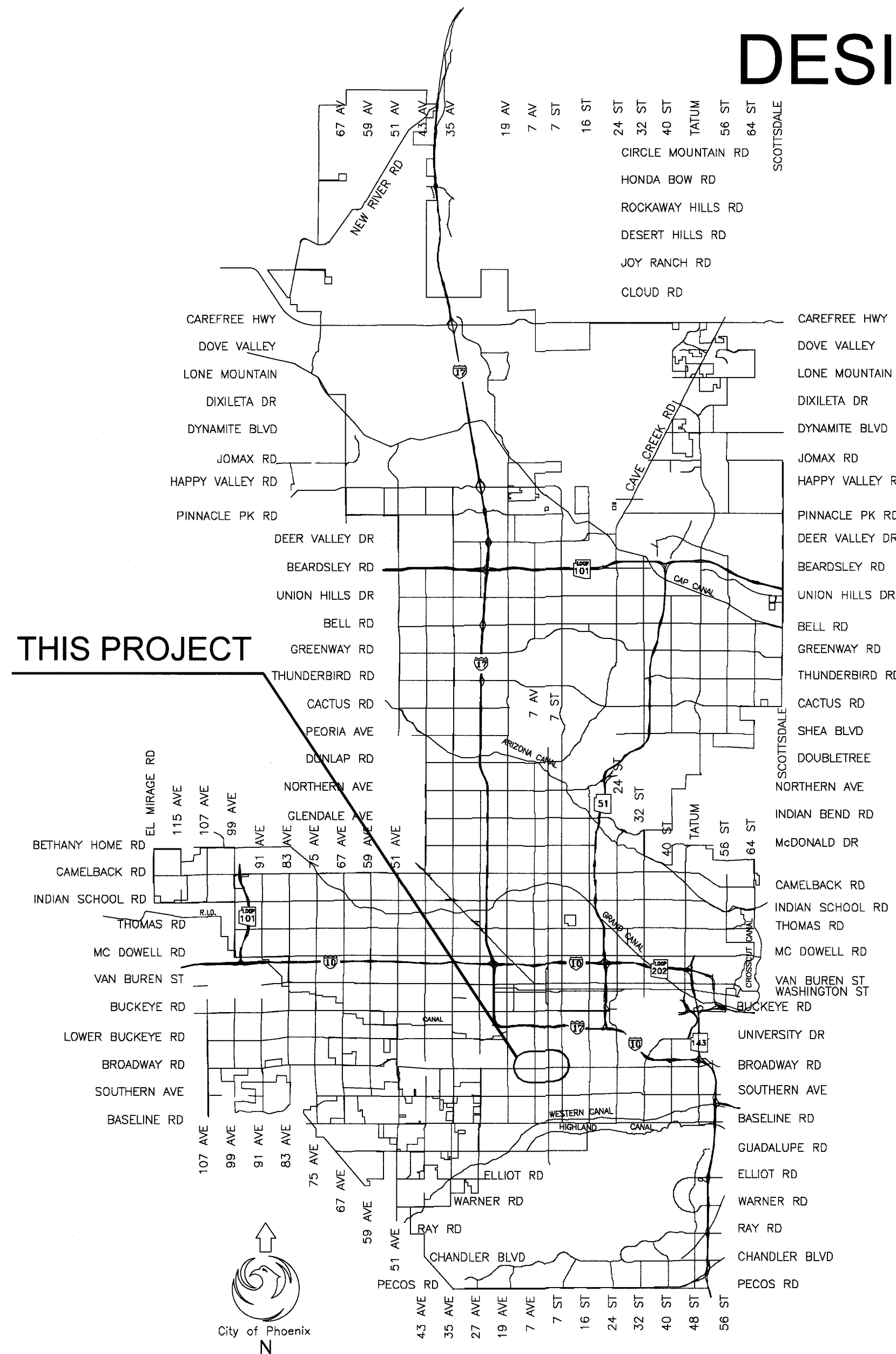
SHEET NO.	DWG SERIES NO.	SHEET TITLE
01	G-1.01	COVER SHEET
02	G-1.02	LEGEND AND NOTES SHEET
03-06	G-1.04-G-1.06	QUANTITY SUMMARY SHEETS
07	G-1.07	TYPICAL SECTIONS
08	G-1.08	STAKING PLAN - 7TH AVE
09-22	PL-1.01 - PL-1.13 PR-1.02 - PR-1.14	PAVING PLAN PROFILE SHEETS
23-27	CP-1.01-CP-1.05	CATCH BASIN CONNECTOR PIPE PROFILES
28	AP-1.01	ALTERNATE PIPE MATERIAL CHART
29-30	DP-1.01-DP-1.02	DRIVEWAY PROFILES
31-34	BL-1.01-BL-1.04	BORING LOGS
35-42	SL-1.01-SL-1.08	STREET LIGHT PLANS
43-49	TS-1.01-TS-1.07	TRAFFIC SIGNAL PLANS
50-79	-	SHEETS NOT USED
80	SRPI-1.01	SRP IRRIGATION PLANS
81-91	SRPP-1.01-SRPP-1.11	SRP ELECTRICAL PLANS

CITY BENCHMARKS

- C.O.P. B.C. IN H.H., AT THE INTERSECTION OF 15TH AVE. AND ARS/BROADWAY RD. EL. 1060.62'
- C.O.P. B.C. IN H.H., AT THE INTERSECTION OF 7TH AVE. AND ARS/BROADWAY RD. EL. 1067.15'
- C.O.P. B.C. IN H.H., AT THE INTERSECTION OF CENTRAL AVE. AND ARS/BROADWAY RD. EL. 1073.25'
- C.O.P. B.C. IN H.H., AT THE INTERSECTION OF 7TH ST. AND ARS/BROADWAY RD. EL. 1076.79'



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VICINITY MAP

NTS

COP INSPECTION STAMP

CITY PROJECT MANAGER _____
CITY INSPECTOR _____
CONTRACTOR _____
DATE OF FINAL COMPLETION _____
MANUFACTURE / TYPE OF VALVES ***ADD FOR WATER PIPE 16-INCH AND LARGER
TYPE OF PIPE INSTALLED ***ADD FOR PIPE 16-INCH AND LARGER

APPROVED ASSISTANT STREET TRANSPORTATION DIRECTOR

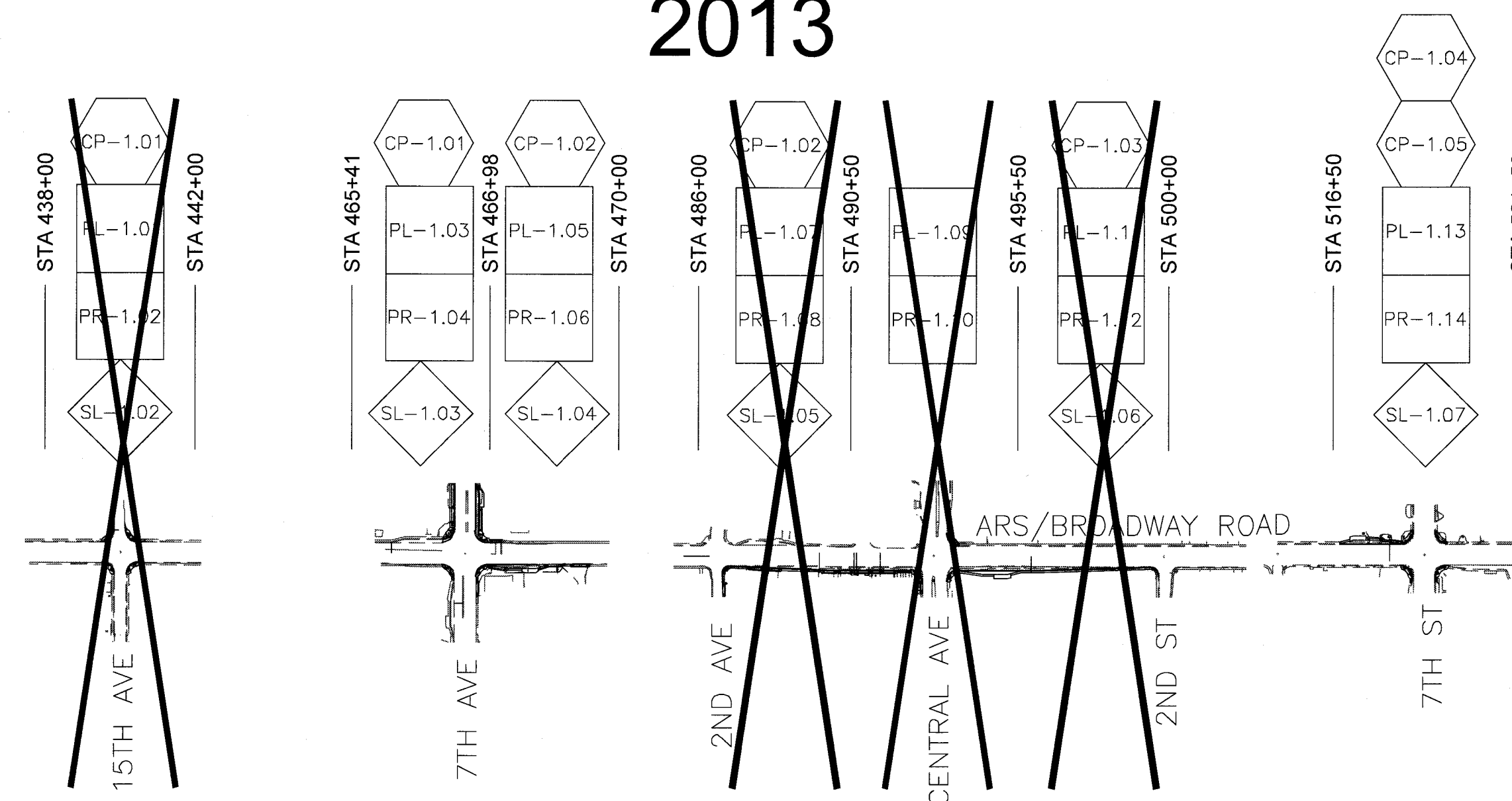
12-2-16
DATE

APPROVED DEPUTY STREET TRANSPORTATION DIRECTOR

12-2-16
DATE



2013



KEY MAP

NTS

- # PAVING PLAN/PROFILE SHEETS
CATCH BASIN CONNECTOR PIPE PROFILES
STREET LIGHT PLAN SHEETS

LENGTH OF PROJECT = 3.650 LF = 0.69 MILES
AREA OF DISTURBANCE=1.95 ACRES

ST85100371(002): QS 4-25 TO 4-29, 5-25 TO 5-29: AVENIDA RIO SALADO/BROADWAY ROAD: 15TH AVENUE TO 7TH STREET

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

NO. DESCRIPTION REV BY CKD BY DATE

REVISION BY CITY OF PHOENIX

NO. DESCRIPTION REV BY CKD BY DATE

REVISION BY CITY OF PHOENIX

NO. DESCRIPTION REV BY CKD BY DATE

23785
JAMES F.
SCHUMANN

DATE SIGNED 11/11/16

ARIZONA, U.S.A.

Expires 06/30/2019

REGISTERED PROFESSIONAL ENGINEER

F.H.W.A. REGION

STATE

PROJECT NO.

NO.

TOTAL

AS BUILT

9

ARIZ.

ST85100371(002)

03

91

CK GROUP

Engineers & Construction Managers

the CK Group, Inc.
CIVIL - TRANSPORTATION ENGINEERS
16448 N. 40th Street, Suite A
Phoenix, Ariz. 85032

REMOVAL SUMMARY

SYM.

ITEM No.

DESCRIPTION

UNIT

PL-1.01

PL-1.03

PL-1.05

PL-1.07

PL-1.09

PL-1.11

PL-1.13

TOTAL
TY

32

M1095010

EXCAVATION AND BACKFILL, TIME AND MATERIALS

CY

-

-

-

-

290

230

215

215

M2050001

ROADWAY EXCAVATION, INCLUDING HAUL

CY

-

-

-

-

-

-

-

700

2

M3500010

REMOVE PORTLAND CEMENT CONCRETE SINGLE CURB AND CURB & GUTTER

LF

259

1284

380

559

796

401

557

2221

1

M3500020

REMOVE PORTLAND CEMENT CONCRETE SIDEWALK, DRIVEWAY, VALLEY GUTTER, & SLAB

SF

1454

4634

1845

2300

3126

1921

3326

9805

27

M3500020

REMOVE PORTLAND CEMENT CONCRETE SLAB (MEDIAN ISLAND)

SF

-

1056

-

-

13

-

11

1067

25

M3500036

REMOVE CATCH BASIN

EA

2

2

-

1

2

-

4

6

11

M3500040

REMOVE PIPE, BACKFILL & COMPACT

LF

62

62

-

412

426

372

126

188

8

M3500060

REMOVE ASPHALT CONCRETE PAVEMENT

SY

68

4349

873

206

660

128

128

5350

9

M3500108

REMOVE BLOCK WALL

LF

-

-

-

-

10

-

-

-

3

M3500110

REMOVE EXISTING FENCE

LF

85

-

-

-

-

-

80

80

M3500150

REMOVE TREE, 12" DIA. AND LARGER

EA

-

1

-

1

-

-

-

1

26

M3500300

RELOCATE IRRIGATION VALVES ON MEDIAN ISLAND

EA

-

-

-

-

2

-

-

-

28

M3500300

REMOVE PARKING BUMPERS

EA

-

5

-

1

-

-

-

5

4

M3500300

REMOVE AND SALVAGE STREET SIGN

EA

-

2

1

-

2

-

1

4

10

M3500300

RELOCATE MAILBOX

EA

-

-

-

1

-

-

-

-

17

M3500300

REMOVE BOLLARD

EA

-

17

-

-

-

-

-

17

30

M4793001

REMOVE TRAFFIC SIGNAL POLE FOUNDATION

CY

0.3

0.3

-

-

-

-

-

0.3

29

M5159020

REMOVE, SALVAGE AND REINSTALL BUS SHELTER FURNITURE

EA

-

1

1

-

1

-

1

3

5

M6101801

RELOCATE WATER METER, BOX & COVER, C.O.P. SUP. 610.11 & C.O.P. DET. P1363

EA

1

1

1

3

1

-

1

3

15

M6108007

FIRE HYDRANT, SALVAGE AND DELIVER TO THE CITY OF PHOENIX

EA

-

2

-

1

-

-

1

3

24

M6108053

RELOCATE BACKFLOW PREVENTION UNIT, PHOENIX SUPPLEMENTAL DETAIL P1353

EA

-

-

-

2

-

-

-

-

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REMOVAL SUMMARY

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

DR: JV/CC
DATE: 11/16

DES: AJ/CC
DATE: 11/16

CK: AJ/JS
DATE: 11/16

DWG SERIES No.
G-1.03

ST85100371(002)

[illegible]

ST85100371(002)

REVISION BY CITY OF PHOENIX

NO. DESCRIPTION REV BY CKD BY DATE

REVISION BY CITY OF PHOENIX

NO. DESCRIPTION REV BY CKD BY DATE

REVISION BY CITY OF PHOENIX

NO. DESCRIPTION REV BY CKD BY DATE

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
PHOENIX STREETS – MARICOPA CO.

23785
JAMES F.
SCHUMANN,
DATE: 5/19/2016
ARIZONA, U.S.A.
Expires: 05/31/2019

CK GROUP

the CK Group, Inc.
CIVIL, TRANSPORTATION ENGINEERS
16445 N. 40th Street, Suite A
Phoenix, Ariz. 85032

STORM DRAIN SUMMARY

SYM.	ITEM No.	DESCRIPTION	UNIT	SHEET NUMBERS								TOTAL TY				
				PL-1.01	PL-1.03	PL-1.05	PL-1.07	PL-1.09	PL-1.11	PL-1.13						
STORM DRAINAGE																
3 13 14	M5051530	CONCRETE CATCH BASIN, TYPE M-1, L=3', C.O.P. DET. P1569-1	EA	-	2	1	-	-	-	-						3
12	M5051540	CONCRETE CATCH BASIN, TYPE M-2, L1=6 L2=3', C.O.P. DET. P1569-1	EA	-	1	-	-	-	-	-						1
2 10 11 12 8 10	M5051564	CONCRETE CATCH BASIN, TYPE M-1, L=6', C.O.P. DET. P1569-1	EA	1	1	-	-	-	-	2						3
5 15 16 17	M5051565	CONCRETE CATCH BASIN, TYPE N SINGLE, C.O.P. DET. P1570	EA	-	-	-	-	-	-	3						3
1 4 6 7 9	M5051588	CONCRETE CATCH BASIN, TYPE R, C.O.P. DET. P1573	EA	1	-	-	1	1	-	2						2
22	M6180427	PIPE PLUG, MAG DET. 427	EA	1	2	-	-	1	-	3						5
	M6180623	STORM SEWER LATERAL PIPE CONNECTION, C.O.P. DET. P1577	EA	-	4	-	-	-	-	4						8
	M6181015	15" CATCH BASIN CONNECTOR PIPE	LF	-	-	-	11	-	-	146						146
	M6181018	18" CATCH BASIN CONNECTOR PIPE	LF	64	134	28	-	91	-	131						293
	M6181578	STORM SEWER LATERAL PIPE CONNECTION, SPECIAL DETAIL 1578	EA	-	-	1	-	2	-	-						1
	M6186005	18"X18"X18" PREFABRICATED TEE	EA	2	-	-	-	-	-	-						-

Call at least two full working days
before you begin excavation.

ARIZONA811

Arizona One Stop, Inc.

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In Maricopa County: (602) 263-1100

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STORM DRAIN SUMMARY

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

DR: JV/CC
DATE: 11/16

DES: AI/CC
DATE: 11/16

CK: AI/JS
DATE: 11/16

DWG SERIES No.
G-1.05

\\cvg-svr\projects\2016 JOBS\CK ARIZONA\Trans Engr. (TE)\AZ2016-08_COP ARS Repackage\PROJECT DELIVERABLES\Final Plans, Reports and Transmittals\Prior Submittal\dwg\05_ST85100330_QTY.dwg

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

NO. DESCRIPTION REV BY CKD BY DATE

REVISION BY CITY OF PHOENIX

NO. DESCRIPTION REV BY CKD BY DATE

REVISION BY CITY OF PHOENIX

NO. DESCRIPTION REV BY CKD BY DATE

23785
JAMES F. SCHUMANN,
JUL 5 5 09 PM 11/11/16
ARIZONA U.S.A.
Expires 06/30/2019

F.H.W.A. REGION STATE PROJECT NO. NO. TOTAL AS BUILT

9 ARIZ. ST85100371(002) 06 91

CK GROUP

the CK Group, Inc.
CIVIL - TRANSPORTATION ENGINEERS
16446 N. 40th Street, Suite A
Phoenix, Ariz. 85032

SYM.	ITEM No.	DESCRIPTION	UNIT	LIGHTING SUMMARY													TOTAL QTY
				SHEET NUMBERS													
				SL-1.02	SL-1.03	SL-1.04	SL-1.05	SL-1.06	SL-1.07	-	-	-	-	-	-		
2	M3515075	FURNISH AND INSTALL 67 WATT LED STREET LIGHT PER C.O.P. STREET LIGHTING PROCEDURES, STANDARDS, AND SPECIFICATIONS MANUAL, LATEST EDITION.	EA	-	-	-	-	1	-	-	-	-	-	-	-	-	-
1	M3515085	FURNISH AND INSTALL 130 WATT LED STREET LIGHT PER C.O.P. STREET LIGHTING PROCEDURES, STANDARDS, AND SPECIFICATIONS MANUAL, LATEST EDITION.	EA	-	2	1	4	2	-	-	-	-	-	-	-	-	3
3	M6014900	TRENCHING FOR STREET LIGHT CIRCUIT (ONE CONDUIT)	LF	-	425	15	990	390	-	-	-	-	-	-	-	-	440

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before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
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LIGHTING SUMMARY

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

DR: JV/CC DES: AI/CC CK: AI/JS
DATE: 11/16 DATE: 11/16 DATE: 11/16

DWG SERIES No.

SCALE: NOT TO SCALE G-1.06

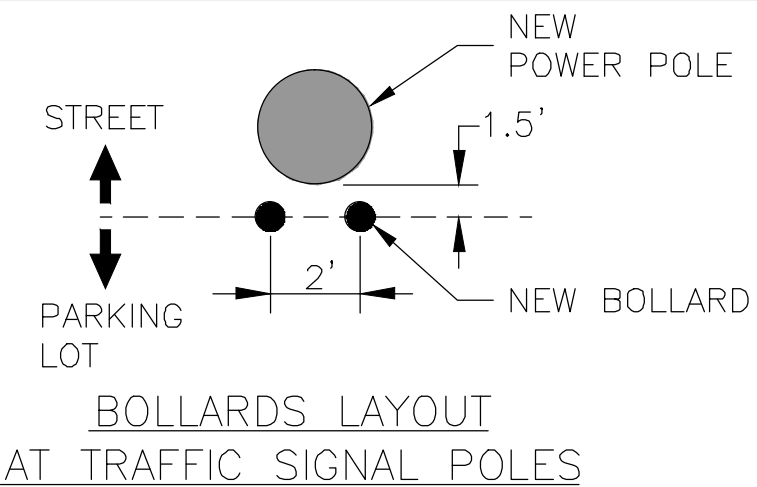
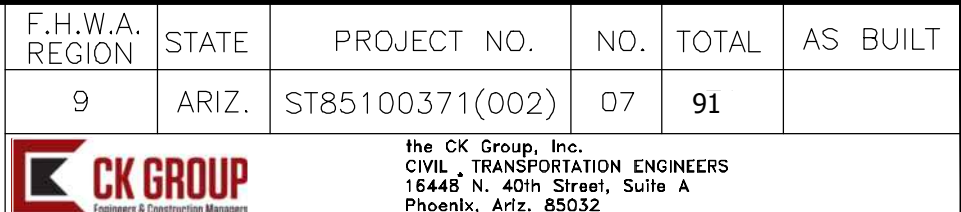
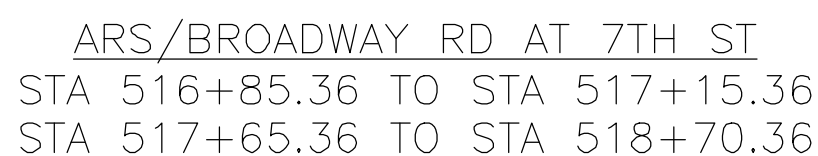
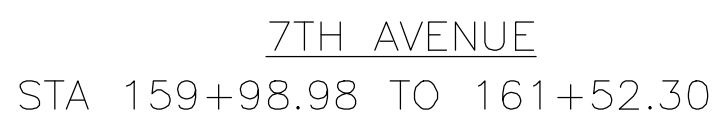
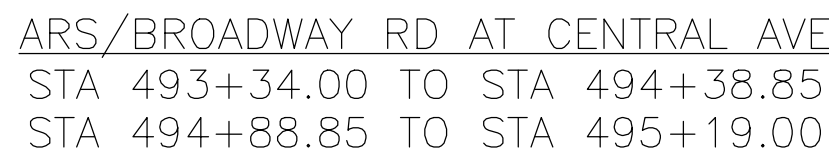
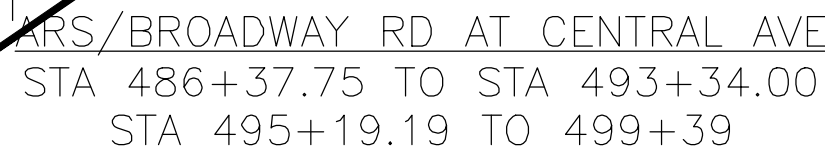
\\cvg-svr\projects\2016 JOBS\CK ARIZONA\Trans Engr. (TE)\AZ2016-08_COP ARS Repackage\PROJECT DELIVERABLES\Final Plans, Reports and Transmittals\Prior Submittal\dwg\06-ST85100330_QTY.dwg

ST85100371(002)

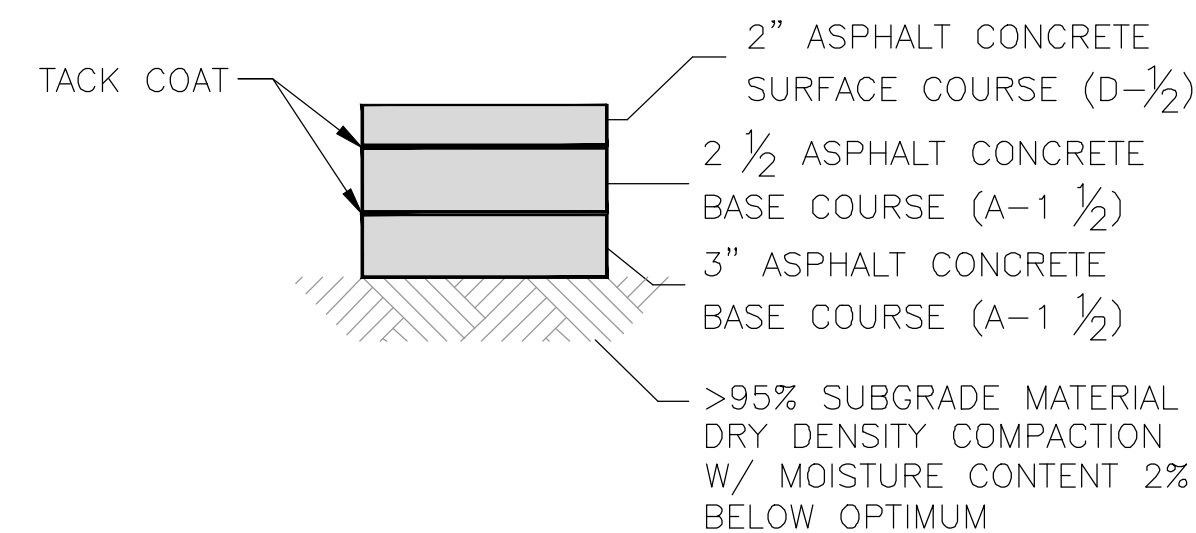
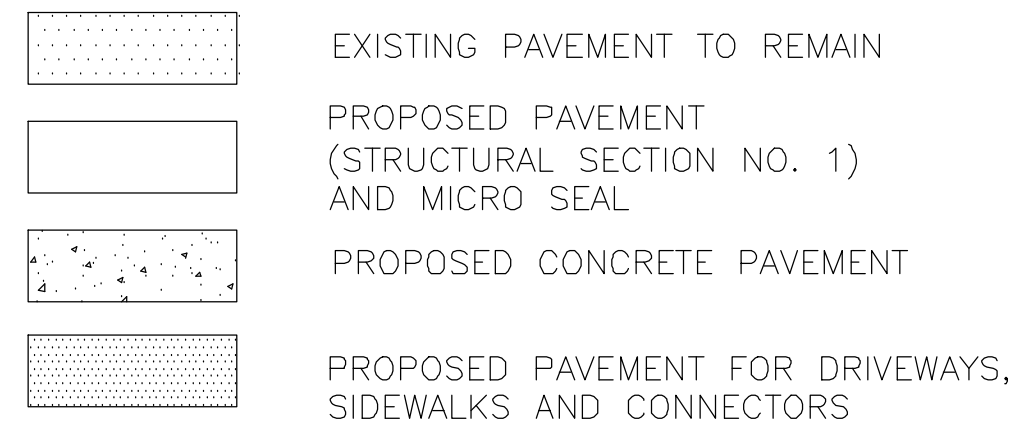
REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHKD BY DATE

REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHKD BY DATE

REVISION BY C	
NO.	DESCRIPTION



PAVEMENT LEGEND



PAVEMENT STRUCTURAL SECTION NO. 1



"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

TYPICAL SECTIONS

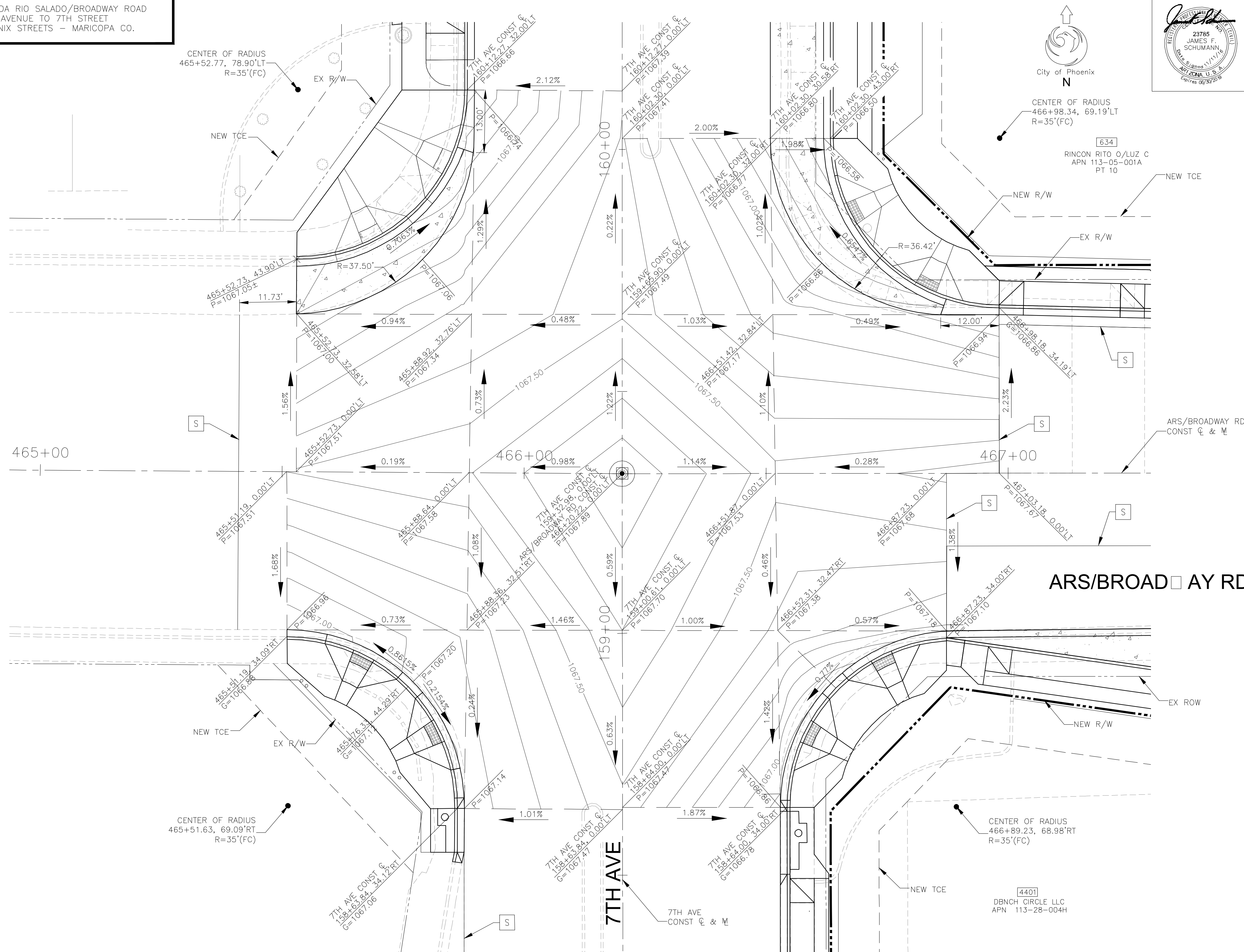
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

DR: JV/CC	DES: AI/CC	CK: AI/JS	DWG SERIES No
DATE: 11/16	DATE: 11/16	DATE: 11/16	
SCALE: NOT TO SCALE			G-1.07

CK GROUP Engineers & Construction Managers the CK Group, Inc.
CIVIL & TRANSPORTATION ENGINEERS
 1644B N. 40th Street, Suite A
 Phoenix, Ariz. 85032

<div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> CONTOUR INTERVAL = 0.10' </div> <div style="text-align: center; margin-top: 20px;">  </div>			
"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."			
<h2 style="margin: 0;">STAGING PLAN 7TH AVE</h2>			
<h3 style="margin: 0;">CITY OF PHOENIX, ARIZONA</h3> <p style="margin: 0;">STREET TRANSPORTATION DEPARTMENT</p>			
<h2 style="margin: 0;">AVENIDA RIO SALADO/BROADWAY ROAD</h2> <h3 style="margin: 0;">15TH AVENUE TO 7TH STREET</h3> <h3 style="margin: 0;">ST851100371(002)</h3>			
DR: JV/CC DATE: 11/16	DES: AI/CC DATE: 11/16	CK: AI/JS DATE: 11/16	DWG SERIES No
SCALE: 1"=10'			G-1.08



ST85100371(002)

Call at least two full working days
before you begin excavation.

ARIZONA 811
Arizona Blue Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

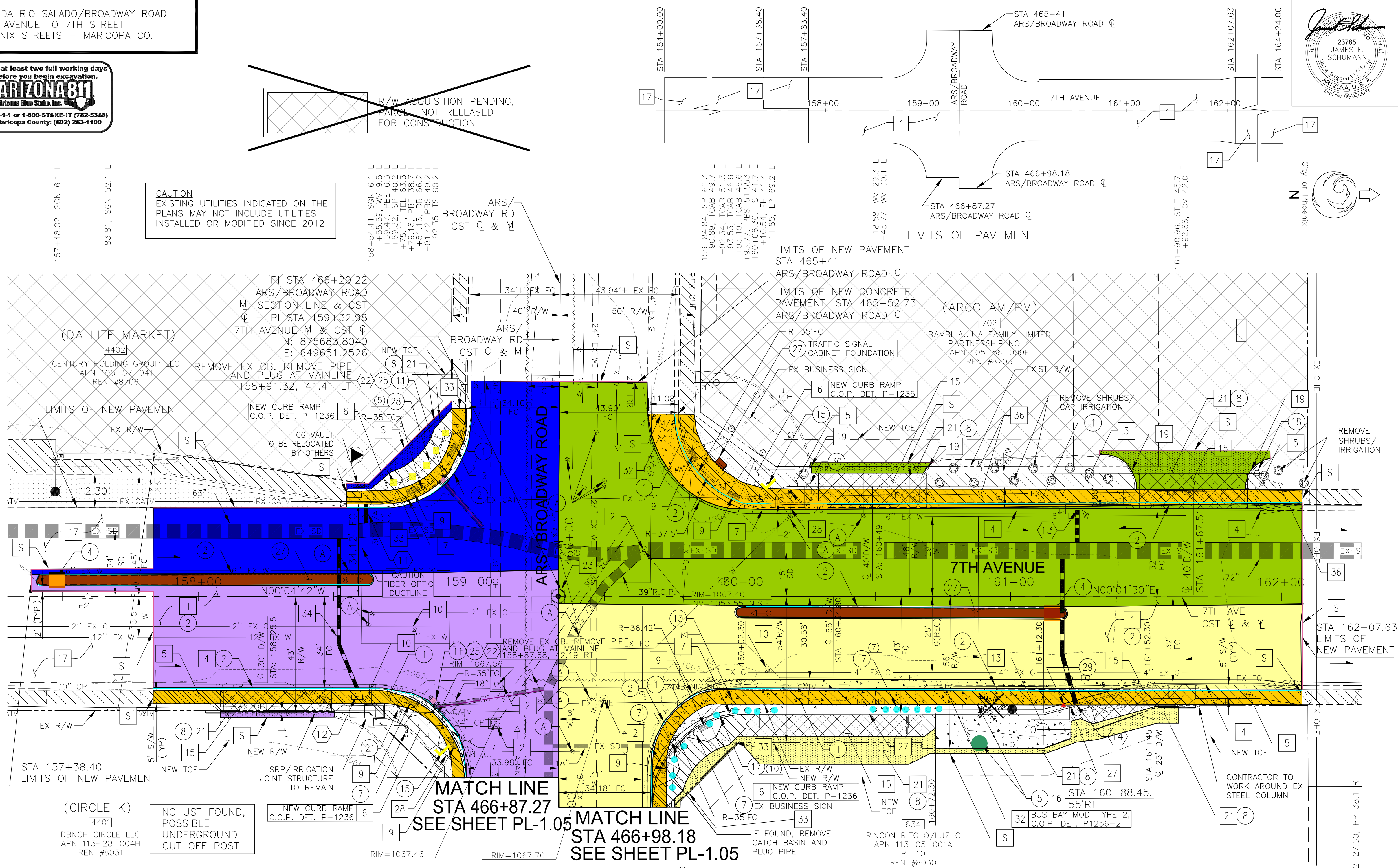
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REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHKD BY DATE

REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CKD BY DATE

CAUTION
EXISTING UTILITIES INDICATED ON THE
PLANS MAY NOT INCLUDE UTILITIES
INSTALLED OR MODIFIED SINCE 2012

~~R/W ACQUISITION PENDING,
PARCEL NOT RELEASED
FOR CONSTRUCTION~~




(CIRCLE K)

4401
DBNCH CIRCLE L
APN 113-28-00
REN #8031

NO UST FOUND,
POSSIBLE
UNDERGROUND
CUT OFF POST

* ADJUST SRP MH, SEE SHEET 80

BENCHMARK B.C.H.H.
AT INTERSECTION OF
ARS/BROADWAY RD. AND 7TH AVE.
N: 875683.8040,
E: 649651.2526,
ELEV: 1067.15'


 T.B.M.: SET PK NAIL AT
 158+58.02 52.17 LT
 ELEV = 1067.32
 AT SOUTHWEST CORNER OF
 ARS/BROADWAY RD. AND 7TH AVE.

1. SEE SHEET 8 FOR INTERSECTION STAKING
2. SEE SHEET 23 & 24 FOR CONN. PIPE PROFILES
3. SEE SHEET 29 & 30 FOR DRIVEWAY PROFILES
4. SEE SHEET 37 FOR STREET LIGHTING PLANS
5. SEE SRP IRRIGATION PLANS FOR IRRIGATION RELOCATION
5. SEE SRP ELECTRICAL PLANS FOR POWER LINE RELOCATION

CATCH BASIN & CONNECTOR PIPE				
NO.	INLET STA.	INLET TYPE	CONNECTION TYPE	PIPE SIZE / L
11	158+62.08 34.12'LT	M-1 L=6' P1569-1	P1577	18" 9'
12	158+58.68 34.00'RT	M-2 L1=6' L2=3' P1569-1	P1577	18" 56'
13	161+24.56 32.00'LT	M-1 L=3' P1569-1	P1577	18" 13'
14	161+24.15 39.74'RT	M-1 L=3' P1569-1	P1577	18" 56'
22	PIPE PLUG, M.A.G. DET. 427			EA 2

CONSTRUCTION NOTES			
NO	DESCRIPTION	UNIT	QTY
29	FIRE HYDRANT FURNISHED BY THE CONTRACTOR, INSTALL	EA	1
32	CONCRETE BUS BAY PAVEMENT, STD DET P1256-2, 9" THICK, CLASS "A" CONCRETE	SF	2156
33	SAFETY POST/BOLLARD, SEE LAYOUT DETAIL ON SHEET G-1.07	EA	8
34	WATERLINE REALIGNMENT, 10" AND 12", CONTINGENT ITEM	EA	1
36	DECOMPOSED GRANITE, 1/2" MINUS	CY	200

CONSTRUCTION NOTES			
NO	DESCRIPTION	UNIT	QTY
15	CONCRETE DRIVEWAY ENTRANCE TYPE 1, C.O.P. DET. P1255-1 (9")	SF	2150
16	¾" OR 1" WATER METER SERVICE CONNECTION	LF	85
17	MICRO SEAL EX PAVEMENT AS SHOWN	SY	4347
19	CONCRETE SINGLE CURB TERMINATION, MAG 222, TYPE "A"	-	-
21	ASPHALT CONC. SURFACE COURSE TYPE D 1/2" FOR DRIVEWAYS, SIDEWALKS AND CONNECTORS	TONS	38.1
23	SURVEY MARKER, MAG DET. 120-1, TYPE A	EA	1
27	COMBINED CONCRETE CURB AND GUTTER, MAG DET. 220, TYPE "A" MODIFIED (FOR BUS BAYS)	LF	152
28	6" DUCTILE IRON WATER PIPE & FITTING, RESTRAINED, FLUSH & INSTAL	LF	20

F.H.W.A. REGION	STATE	PROJECT NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85100371(002)	11	91	
 <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> the CK Group, Inc. CIVIL / TRANSPORTATION ENGINEERS 16448 N. 40th Street, Suite A Phoenix, Ariz. 85032 </div>					
REMOVAL/RELOCATION NOTES					
NO	DESCRIPTION			UNIT	QTY
①	REMOVE PORTLAND CONCRETE SIDEWALK, DRIVEWAY, VALLEY GUTTER, & SLAB				
	STA: 158+55 TO STA 162+08 LT			SF	2555
	STA 157+83 TO STA 162+08 RT			SF	2079
②	REMOVE PORTLAND CONCRETE SINGLE CURB AND CURB & GUTTER				
	STA: 158+53 TO STA 162+08 LT			LF	380
	STA 157+83 TO STA 162+08 RT			LF	904
④	REMOVE AND SALVAGE STREET SIGN (INCLUDED IN M3500300 MISC REMOVAL)			EA	2
⑤	RELOCATE WATER METER, BOX & COVER, C.O.P. SUP. 610.11 & C.O.P. DET. P1363			EA	1
⑦	PRIVATE SIGN (RELOCATED BY OTHERS)			—	—
⑧	REMOVE ASPHALT CONCRETE PAVEMENT			SY	4349
⑪	REMOVE PIPE, BACKFILL & COMPACT			LF	62
⑬	POWER POLE AND/OR DOWN GUYS (RELOCATED BY OTHERS)			—	—
⑮	FIRE HYDRANT, SALVAGE AND DELIVER TO THE CITY OF PHOENIX			EA	2
⑰	REMOVE BOLLARD (INCLUDED IN M3500300 MISC REMOVAL)			EA	17
⑱	PRIVATE LIGHT POLE (RELOCATED BY OTHERS)			—	—
⑳	TELEPHONE RISER (RELOCATED BY OTHERS)			—	—
㉒	PARKING BUMPER (RELOCATED BY OTHERS)			—	—
㉕	REMOVE CATCH BASIN			EA	2
㉗	REMOVE PORTLAND CEMENT CONCRETE SLAB			SF	1056
㉘	REMOVE PARKING BUMPERS (INCLUDED IN MISCELLANEOUS REMOVALS)			EA	5
㉙	REMOVE, SALVAGE AND REINSTALL BUS SHELTER FURNITURE			EA	1
㉚	REMOVE TRAFFIC SIGNAL POLE FOUNDATION			CY	0.3

CONSTRUCTION NOTES			
NO	DESCRIPTION	UNIT	QTY
	SUBGRADE PREPARATION	SY	3769
	ASPHALTIC CONCRETE SURFACE COURSE, (D 1 1/2), 2" THICK	TON	424
1	ASPHALTIC CONCRETE BASE COURSE, (A 1-1/2), 5 1/2" THICK	TON	1166
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.6
2	ADJUST EX MANHOLE FRAME & COVER, MAG STD DET 422	EA	4
A	ADJUST EX WATER VALVE BOX & COVER, C.O.P. DET. P1391 & P1391-1, TYPE A	EA	14
4	VERTICAL CURB & GUTTER, MAG DET. 220, TYPE A, H=6"	LF	343
5	CONCRETE SIDEWALK, C.O.P. DET. P1230 (6")	SF	1253
6	CONCRETE SIDEWALK, C.O.P. DET. P1230, MOD., 9" THICK; CLASS A	SF	1982
7	COMBINED CURB & GUTTER, STANDARD DETAIL 220, TYPE "A", H=6", MODIFIED 9" GUTTER PAN, CLASS "A" CONCRETE	LF	220
9	TRUNCATED DOMES FOR SIDEWALK RAMPS, C.O.P. DET. P1232	SF	72
10	ADJUST FRAMES, COVERS & VALVE BOXES ON EXISTING NON-CITY UTILITIES, CONTINGENCY ITEM	EA	2
13	BUS SHELTER PAD, C.O.P. DET. P1261	SF	616

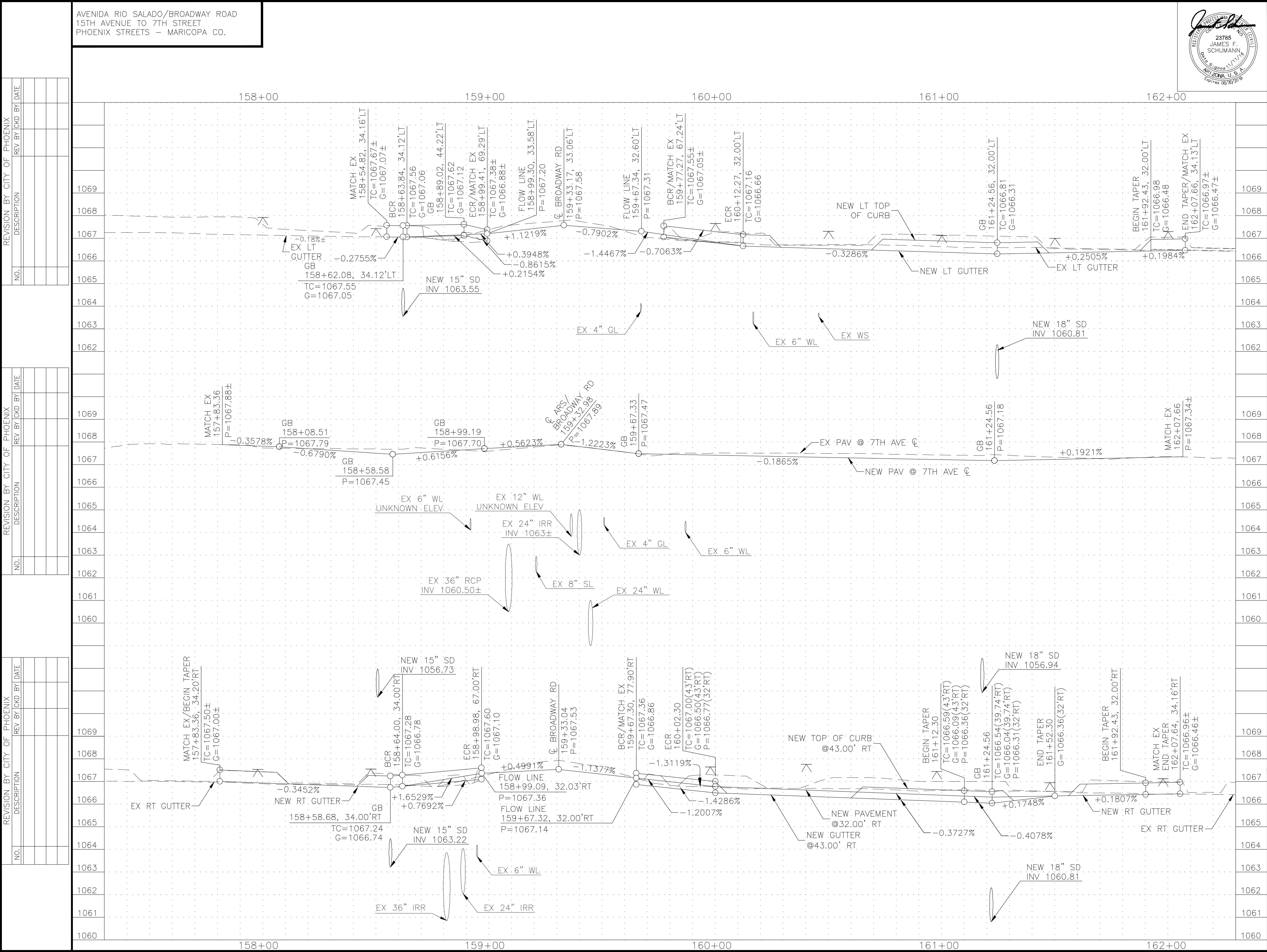
"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

PAVING PLAN - 7TH AVE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

DR: JV/CC	DES: AI/CC	CK: AI/JS	DWG SERIES No.
DATE: 11/16	DATE: 11/16	DATE: 11/16	
SCALE: 1"=20'			PL-1.03



F.H.W.A. REGION
9

STATE
ARIZ.

PROJECT NO.
ST85100371(002)

NO.
12

TOTAL
91

AS BUILT

23785
JAMES F.
SCHUMANN,
DATE: 11/11/16
ARIZONA U.S.A.
Expires 06/30/2019

CK GROUP

the CK Group, Inc.
CIVIL - TRANSPORTATION ENGINEERS
16446 N. 40th Street, Suite A
Phoenix, Ariz. 85032

CAUTION
EXISTING UTILITIES INDICATED ON THE
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INSTALLED OR MODIFIED SINCE 2012

NOTE:
SEE SHEET C-1.08 FOR INTERSECTION STAKING

Call at least two full working days
before you begin excavation.
ARIZONA811
Arizona Blue Stakes, Inc.
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In Maricopa County: (602) 263-1100

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TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S
CONTRACT WITH THE CITY OF PHOENIX."

PAVING PROFILE 7TH AVE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

DR: JV/CC
DATE: 11/16

DES: AI/CC
DATE: 11/16

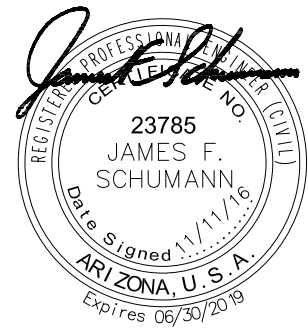
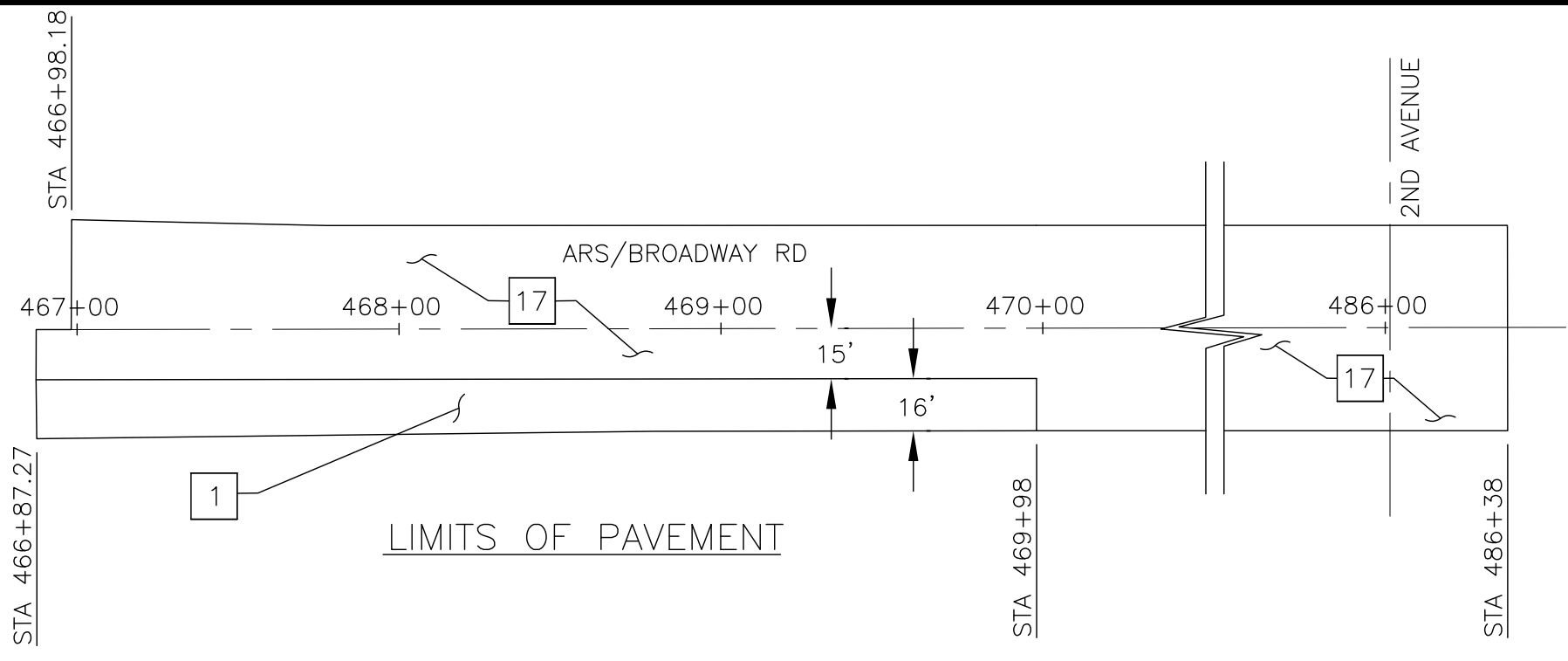
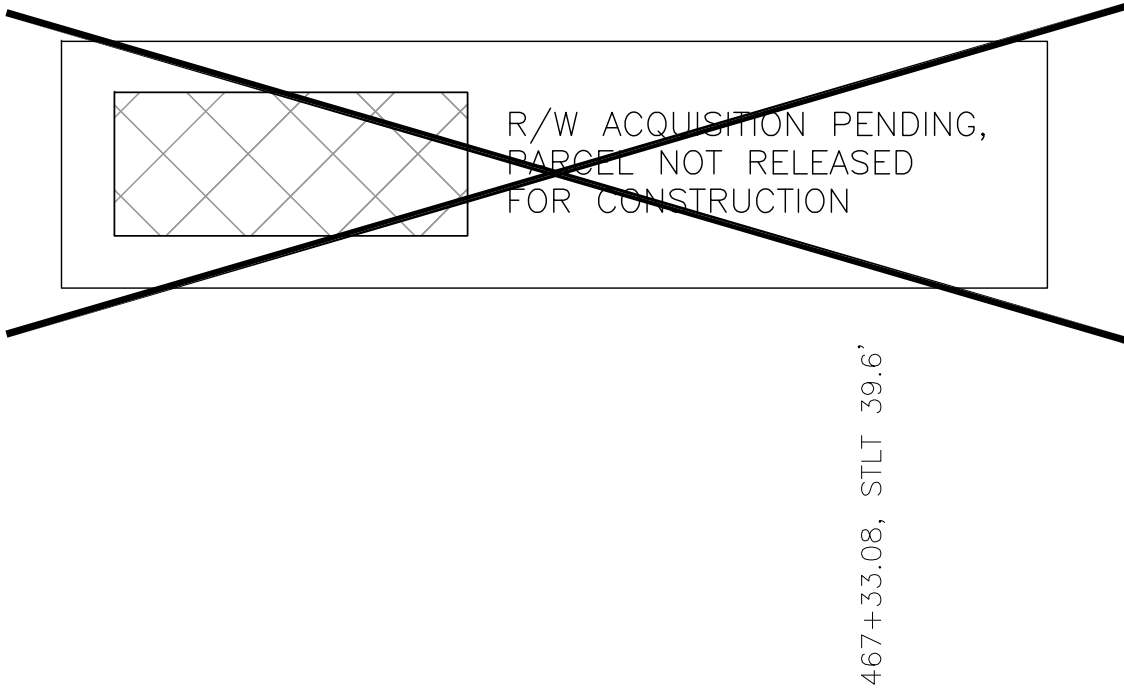
CK: AI/JS
DATE: 11/16


DWG SERIES No.
PR-1.04

\\cvg-svr\projects\2016 JOBS\CK ARIZONA\Trans Engr. (TE)\AZ2016-08_COP ARS Repackage\PROJECT DELIVERABLES\Final Plans, Reports and Transmittals\Prior Submittal\dwg\12_ST85100330-PROF-7th Ave 1 of 2.dwg

[illegible]

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
PHOENIX STREETS - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJECT NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85100371(002)	13	91	
 <div> the CK Group, Inc. CIVIL, TRANSPORTATION ENGINEERS 16446 N. 40th Street, Suite A Phoenix, Ariz. 85032 </div>					
REMOVAL/RELOCATION NOTES					
NO	DESCRIPTION			UNIT	QTY
①	REMOVE PORTLAND CEMENT CONCRETE SIDEWALK, DRIVEWAY, VALLEY GUTTER, & SLAB				
	STA: 467+14 TO STA 467+38 LT			SF	166
	STA 466+87 TO STA 469+98 RT			SF	1679
②	REMOVE PORTLAND CEMENT CONCRETE SINGLE CURB AND CURB & GUTTER				
	STA: 467+14 TO STA 467+36 LT			LF	33
	STA 466+87 TO STA 469+98 RT			LF	347
④	REMOVE AND SALVAGE STREET SIGN (INCLUDED IN M3500.300 MISC REMOVAL)			EA	1
⑤	RELOCATE WATER METER, BOX & COVER, C.O.P. SUP. 610.11 & C.O.P. DET. P1363			EA	1
⑥	ANCHOR POLE (RELOCATED BY OTHERS)			-	-
⑦	PRIVATE SIGN (RELOCATED BY OTHERS)			-	-
⑧	REMOVE ASPHALT CONCRETE PAVEMENT			SY	873
⑬	POWER POLE AND/OR DOWN GUYS (RELOCATED BY OTHERS)			-	-
②⑨	REMOVE, SALVAGE AND REINSTALL BUS SHELTER FURNITURE			EA	1
CONSTRUCTION NOTES					
NO	DESCRIPTION			UNIT	QTY
①	SUBGRADE PREPARATION			SY	559
	ASPHALTIC CONCRETE SURFACE COURSE, (D 1 1/2", 2" THICK			TON	65
	ASPHALTIC CONCRETE BASE COURSE, (A 1-1/2", 5 1/2" THICK			TON	180
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H			TON	.2
②	ADJUST EX MANHOLE FRAME & COVER, MAG STD DET 422			EA	3
④	CURB & GUTTER, MAG DET. 220 TYPE A, H=6"			LF	159
⑤	CONCRETE SIDEWALK, C.O.P. DET. P1230 (6")			SF	526
⑫	CONCRETE SINGLE CURB, MAG DET 222, TYPE A, MOD FOR BUS BAY			LF	188
⑬	BUS SHELTER PAD, C.O.P. DET. P1261			SF	615
⑮	CONCRETE DRIVEWAY ENTRANCE TYPE 1, C.O.P. DET. P1255-1 (9")			SF	1610
⑯	3/4" OR 1" WATER METER SERVICE CONNECTION			LF	58
⑰	MICRO SEAL EX PAVEMENT AS SHOWN			SY	12760
⑲	CONCRETE SINGLE CURB TERMINATION, MAG 222, TYPE "A"			-	-
⑳	SINGLE CURB, MAG DET. 222 TYPE A, H=6"			LF	28
㉑	ASPHALT CONC. SURFACE COURSE TYPE D 1 1/2" FOR DRIVEWAYS, SIDEWALKS AND CONNECTORS			TONS	27.5
㉔	CONCRETE BUS BAY PAVEMENT, STD DET P1256-1, 9" THICK, CLASS "A" CONCRETE			SF	1698
㉘	6" DUCTILE IRON WATER PIPE & FITTING, RESTRAINED, FURNISH & INSTALL			LF	2
㉙	FIRE HYDRANT FURNISHED BY THE CONTRACTOR, INSTALL			EA	1
<p>"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."</p>					
PAVING PLAN - 7TH AVE					
CITY OF PHOENIX, ARIZONA					
STREET TRANSPORTATION DEPARTMENT					
AVENIDA RIO SALADO/BROADWAY ROAD					
15TH AVENUE TO 7TH STREET					
ST85100371(002)					
DR: JV/CC DATE: 11/16		DES: AJ/CC DATE: 11/16		CK: AJ/JS DATE: 11/16	
SCALE: 1"=20'				DWG SERIES No. PL-1.05	

CATCH BASIN & CONNECTOR PIPE				
NO.	INLET STA.	INLET TYPE	CONNECTION TYPE	PIPE SIZE LF
3	469+22.23 32.00'RT	M-1 L=3' P1569-1	P1578	18" 28'

SHEET REFERENCES

1. SEE SHEET 24 FOR CONN. PIPE PROFILES
2. SEE SHEET 29 FOR DRIVEWAY PROFILES
3. SEE SHEET 37 & 38 FOR STREET LIGHTING PLAN
4. SEE SRP IRRIGATION PLANS FOR IRRIGATION RELOCATION
5. SEE SRP ELECTRICAL PLANS FOR POWER LINE RELOCATION

ST85100371(002)

\\cjk-svr\projects\2016 JOBS\CK ARIZONA\Trans Engr. (TE)\AZ2016-08_COP ARS Repackage\PROJECT DELIVERABLES\Final Plans, Reports and Transmittals\Prior Submittal\dwg\14_ST85100330-PROF-7th Ave 2 of 2.dwg

the CK Group, Inc.
CIVIL TRANSPORTATION ENGINEERS
16448 N. 40th Street, Suite A
Phoenix, Ariz. 85032



**Call at least two full working days
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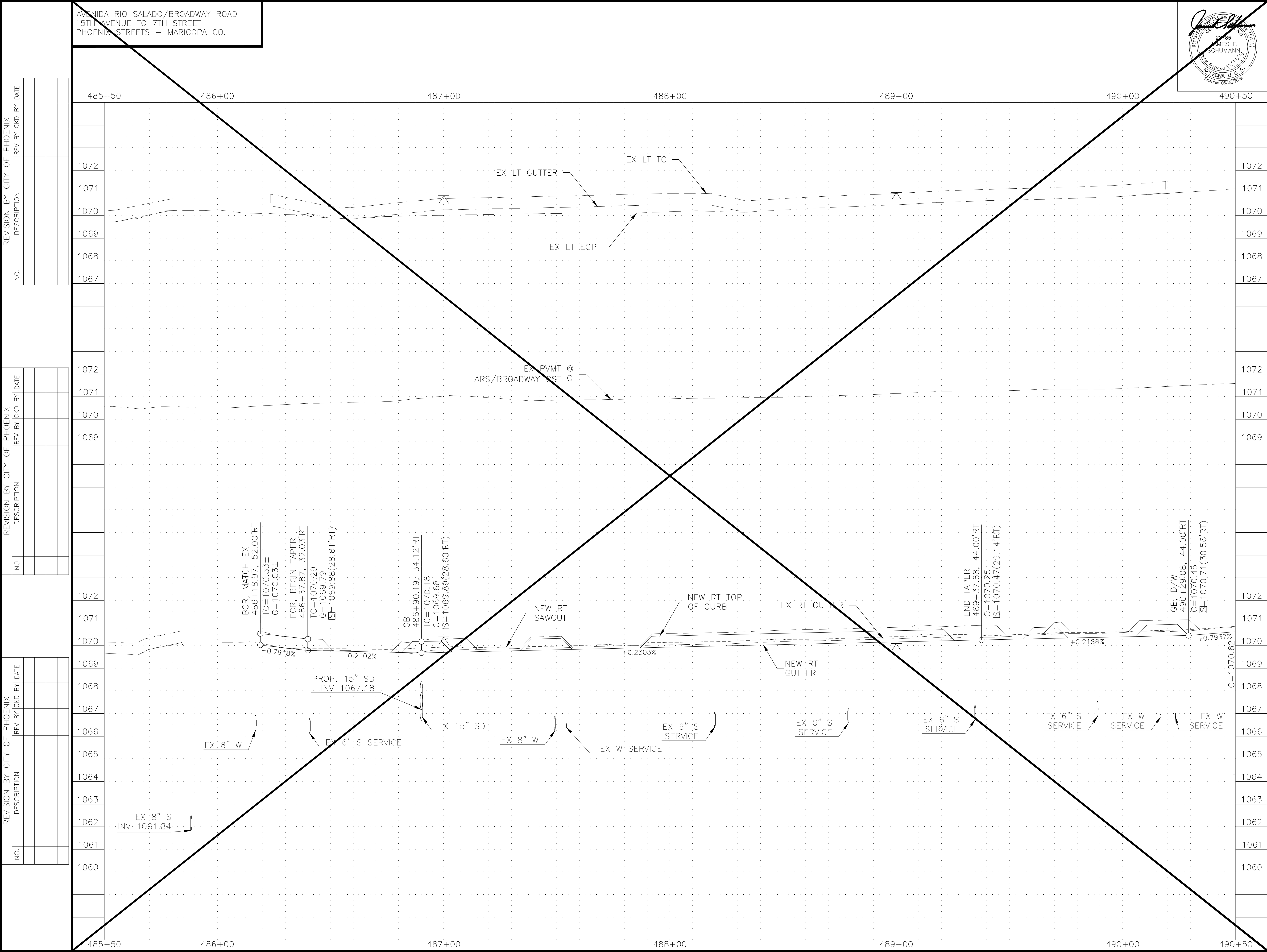
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CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

DR: JV/CC	DES: AI/CC	CK: AI/JS	DWG SERIES No.
DATE: 11/16	DATE: 11/16	DATE: 11/16	
SCALE: 1"=2' VERTICAL 1"=20' HORIZONTAL			PR-1.06

ST85100371(002)



F.H.W.A. REGION	STATE	PROJECT NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85100371(002)	16	91	

CK GROUP
the CK Group, Inc.
CIVIL - TRANSPORTATION ENGINEERS
16445 N. 40th Street, Suite A
Phoenix, Ariz. 85032

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PAVING PROFILE - CENTRAL AVE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

DR: JV/CC DATE: 11/16	DES: AI/CC DATE: 11/16	CK: AI/JS DATE: 11/16	DWG SERIES No. PR-1.08
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SCALE: 1"=2' VERTICAL
1"=20' HORIZONTAL

REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHKD BY

T.B.M.: SET CHIS. X AT
492+15.24 33.52 LT
ELEV = 1072.81
ON THE CURB AT THE NORTHWEST CORNER
OF ARS/BROADWAY RD. AND CENTRAL AVE.



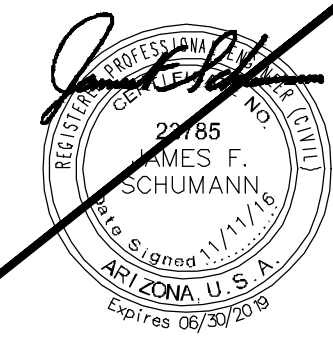
<u>CONSTRUCTION NOTES</u>			
NO	DESCRIPTION	UNIT	QTY
15	CONCRETE DRIVEWAY ENTRANCE TYPE 1, C.O.P. DET. P1255-1 (9")	SF	91.3
16	3/4" OR 1" WATER METER SERVICE CONNECTION	LF	61.0
17	MICRO SEAL EX PAVEMENT AS SHOWN	SY	401.0
19	CONCRETE SINGLE CURB TERMINATION, MAG 222, TYPE "A"	-	-
20	SINGLE CURB, MAG DET. 222 TYPE A, H=6"	LF	72.0
21	ASPHALT CONC. SURFACE COURSE TYPE D 1 1/2" FOR DRIVEWAYS, SIDEWALKS AND CONNECTORS	TONS	18.0
23	SURVEY MARKER, MAG DET. 122-1, TYPE A	EA	2
24	CONCRETE BUS BAY PAVEMENT, STD DET P1256-1, 9" THICK, CLASS "A" CONCRETE	SF	169.0
25	ADJUST MANHOLE COVER TO PROPOSED GRADE PER SRP CONSTRUCTION LICENSE AND SPECS.	EA	1
26	CONCRETE MEDIAN NOSE	SF	18.0
30	WATERLINE REALIGNMENT, 6" AND 8", CONTINGENT ITEM	EA	1
33	SAFETY POST/BOLLARD. SEE LAYOUT DETAIL ON SHEET G-1.07	EA	4


F.H.W.A. REGION	STATE	PROJECT NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85100371(002)	17	91	
 <div style="display: inline-block; vertical-align: middle; text-align: center;"> <small>the CK Group, Inc. CIVIL - TRANSPORTATION ENGINEERS 16448 N. 40th Street, Suite A Phoenix, Ariz. 85032</small> </div>					
REMOVAL/RELOCATION NOTES					
NO	DESCRIPTION			UNIT	QTY
①	REMOVE PORTLAND CEMENT CONCRETE SIDEWALK, DRIVEWAY, VALLEY GUTTER, & SLAB				
	STA 492+99 TO 493+33			LT	SF 335
	STA 490+50 TO 495+50			RT	SF 279
②	REMOVE PORTLAND CEMENT CONCRETE SINGLE CURB AND CURB & GUTTER				
	STA 492+99 TO 493+33			LT	LF 101
	STA 490+50 TO 495+50			RT	LF 695
④	REMOVE AND SALVAGE STREET SIGN (INCLUDED IN M35003300 MISC REMOVAL)			EA	2
⑤	RELOCATE WATER METER, BOX & COVER, C.O.P. SUP. 610.11 & C.O.P. DET. P1363			EA	1
⑦	PRIVATE SIGN (RELOCATED BY OTHERS)			—	—
⑧	REMOVE ASPHALT CONCRETE PAVEMENT			SY	360
⑨	REMOVE BLOCK WALL			LF	10
⑪	REMOVE PIPE, BACKFILL & COMPACT			LF	532
⑬	POWER POLE AND/OR DOWN GUYS (RELOCATED BY OTHERS)			—	—
⑱	PRIVATE STREET LIGHT POLE (RELOCATED BY OTHERS)			—	—
⑳	PARKING BUMPER (RELOCATED BY OTHERS)			—	—
㉕	REMOVE CATCH BASIN			EA	2
㉖	RELOCATE IRRIGATION VALVES (MISC)			EA	2
㉗	REMOVE CONCRETE SLAB			SF	13
㉙	REMOVE, SALVAGE AND REINSTALL BUS SHELTER FURNITURE			EA	1
㉚	REMOVE EXISTING MANHOLE			EA	1
㉛	EXCAVATION AND BACKFILL, TIME AND MATERIALS			CY	290
CONSTRUCTION NOTES					
NO	DESCRIPTION			UNIT	QTY
	SUBGRADE PREPARATION			SY	782
1	ASPHALTIC CONCRETE SURFACE COURSE, (D 1 1/2), 2" THICK			TON	88
	ASPHALTIC CONCRETE BASE COURSE, (A 1-1/2), 5 1/2" THICK			TON	242
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H			TON	0.3
2	ADJUST EX MANHOLE FRAME & COVER, MAG STD DET 422			EA	5
③	ADJUST EX WATER VALVE BOX & COVER, C.O.P. DET. P1391 & P1391-1, TYPE A			EA	4
4	CURB & GUTTER, MAG DET. 220 TYPE A, H=6"			LF	204
5	CONCRETE SIDEWALK, C.O.P. DET. P1230 (6")			SF	1173
6	CONCRETE SIDEWALK, C.O.P. DET. P1230, MOD., 9" THICK; CLASS A			SF	1347
7	COMBINED CURB & GUTTER, STANDARD DETAIL 220, TYPE "A", H=6", MODIFIED 9" GUTTER PAN, CLASS "A" CONCRETE			LF	165
9	TRUNCATED DOMES FOR SIDEWALK RAMPS, C.O.P. DET. P1232			SF	56
10	ADJUST FRAMES, COVERS AND VALVE BOXES ON EXISTING NON-CITY UTILITIES, CONTINGENCY ITEM			EA	1
12	CONCRETE SINGLE CURB, MAG DET 222, TYPE A, MOD FOR BUS BAY			LF	187
13	BUS SHELTER PAD, C.O.P. DET. P1261			SF	615
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PAVING PLAN □ CENTRAL AVE					
CITY OF PHOENIX, ARIZONA					
STREET TRANSPORTATION DEPARTMENT					
AVENIDA RIO SALADO/BROADWAY ROAD					
15TH AVENUE TO 7TH STREET					
ST85100371(002)					
DR: JV/CC		DES: AJ/CC		CK: AJ/JS	
DATE: 11/16		DATE: 11/16		DATE: 11/16	
SCALE: 1"=20'				PL-1.09	
DWG SERIES No					

ST85100371(002)

REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHKD BY

212
MCFARLIN SKIP/NINA
APN 113-13-091A



 CK GROUP <small>Engineers & Construction Managers</small>	the CK Group, Inc. CIVIL, TRANSPORTATION ENGINEERS 1644B N. 40th Street, Suite A Phoenix, Ariz. 85032
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CONSTRUCTION NOTES			
NO	DESCRIPTION	UNIT	QTY
	SUBGRADE PREPARATION	SY	370
	ASPHALTIC CONCRETE SURFACE COURSE, (D 1 1/2), 2" THICK	TON	42
1	ASPHALTIC CONCRETE BASE COURSE, (A 1-1/2), 5 1/2" THICK	TON	115
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.2
2	ADJUST EX MANHOLE FRAME & COVER, MAG STD DET 422	EA	2
A	ADJUST EX WATER VALVE BOX & COVER, C.O.P. DET. P1391 & P1391-1, TYPE A	EA	2
4	CURB & GUTTER, M.A.G. DET. 220 TYPE A, H=6"	LF	374
5	CONCRETE SIDEWALK, C.O.P. DET. P1230 (6")	SF	1860
6	CONCRETE SIDEWALK, C.O.P. DET. P1230, MOD., 9" THICK; CLASS A	SF	164
7	COMBINED CURB & GUTTER, STANDARD DETAIL 220, TYPE "A", H=6", MODIFIED 9" GUTTER PAN, CLASS "A" CONCRETE	LF	31
9	TRUNCATED DOMES FOR SIDEWALK RAMPS, C.O.P. DET. P1232	SF	9
17	MICRO SEAL EX PAVEMENT AS SHOWN	SY	2561

**Call at least two full working days
before you begin excavation.**

ARIZONA 811
Arizona Blue Stake, Inc.


**Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
in Maricopa County: (602) 263-1100**

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

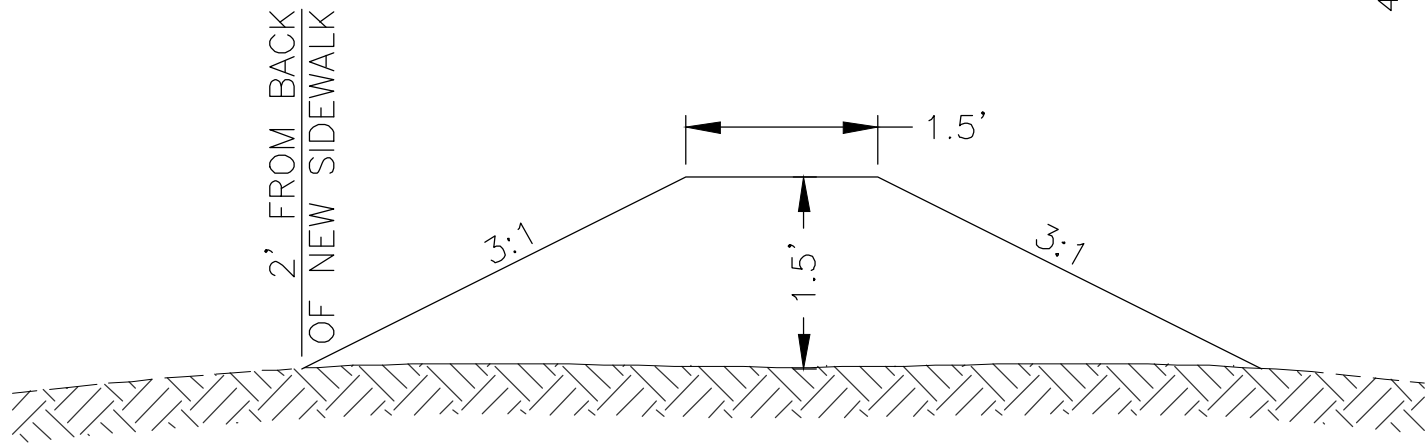
DR: JV/CC	DES: AI/CC	CK: AI/JS	DWG SERIES No.
DATE: 11/16	DATE: 11/16	DATE: 11/16	
SCALE: 1"=20'			PL-1.11

1. SEE SHEET 40 FOR STREET LIGHTING PLAN
2. SEE SRP IRRIGATION PLANS FOR IRRIGATION RELOCATION

CONTRACTOR TO RECONSTRUCT
EXISTING 18" HIGH BERM, 2-FT
FROM BACK OF NEW SIDEWALK.
SEE DETAIL ON THIS SHEET

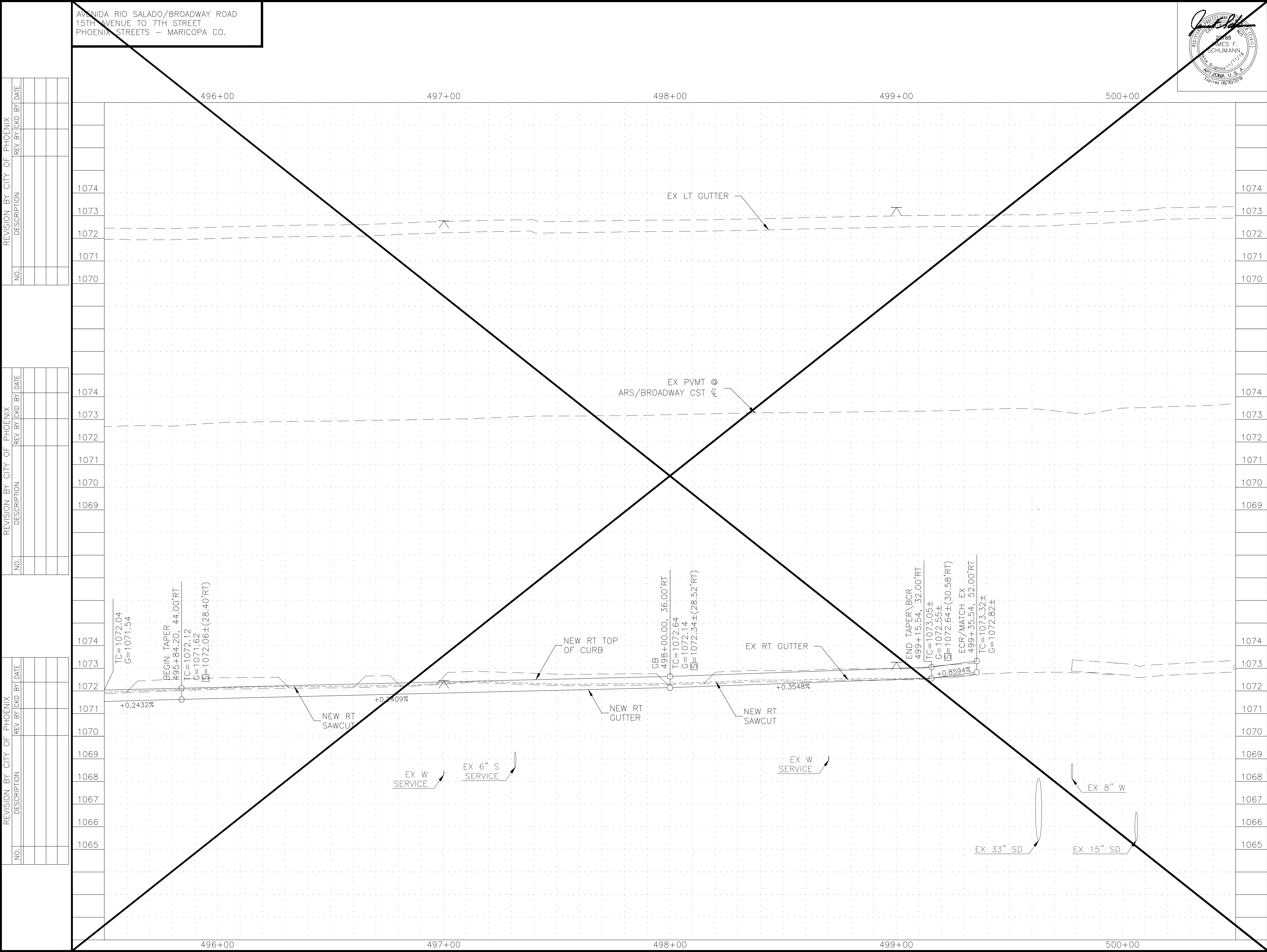
 BENCHMARK IN B.C.H.H.
AT THE INTERSECTION OF
ARS/BROADWAY AND 7TH ST.
N: 875677.4410
E: 654971.2856
ELEV: 1076.79'

 T.B.M.: FOUND MON. AT
497+38.39 32.48 LT
ELEV = 1072.69
ON THE SIDEWALK OF NORTH SIDE OF ARS/BROADWAY



BERM DETAIL

SHEET REFERENCES



F.H.W.A. REGION 9	STATE ARIZ.	PROJECT NO. ST85100371(002)	NO. 20	TOTAL 91	AS BUILT
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the CK Group, Inc.
CIVIL - TRANSPORTATION ENGINEERS
16446 N. 40th Street, Suite A
Phoenix, Ariz. 85032

Call at least two full working days before you begin excavation.
ARIZONA811
Arizona 811 State, Inc.
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In Maricopa County (602) 263-1100

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PAVING PROFILE - CENTRAL AVE


CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT


AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)


DR: JV/CC DATE: 11/16	DES: AI/CC DATE: 11/16	CK: AI/JS DATE: 11/16	DWG SERIES No. PR-1.12
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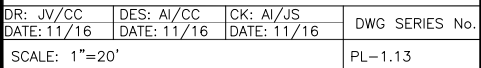
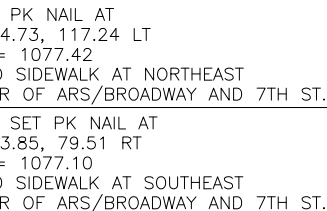
SCALE: 1"=2' VERTICAL
1"=20' HORIZONTAL

[illegible]

 BENCHMARK IN B.C.H.H
 AT THE INTERSECTION OF
 ARS/BROADWAY RD. & 12TH ST.
 N: 875685.7533
 E: 657638.8684
 ELEV: 1082.24'

 T.B.M.: PK NAIL AT
 519+84.73, 117.24 LT
 ELEV = 1077.42
 BEHIND SIDEWALK AT NORTHEAST
 CORNER OF ARS/BROADWAY AND 7TH ST.

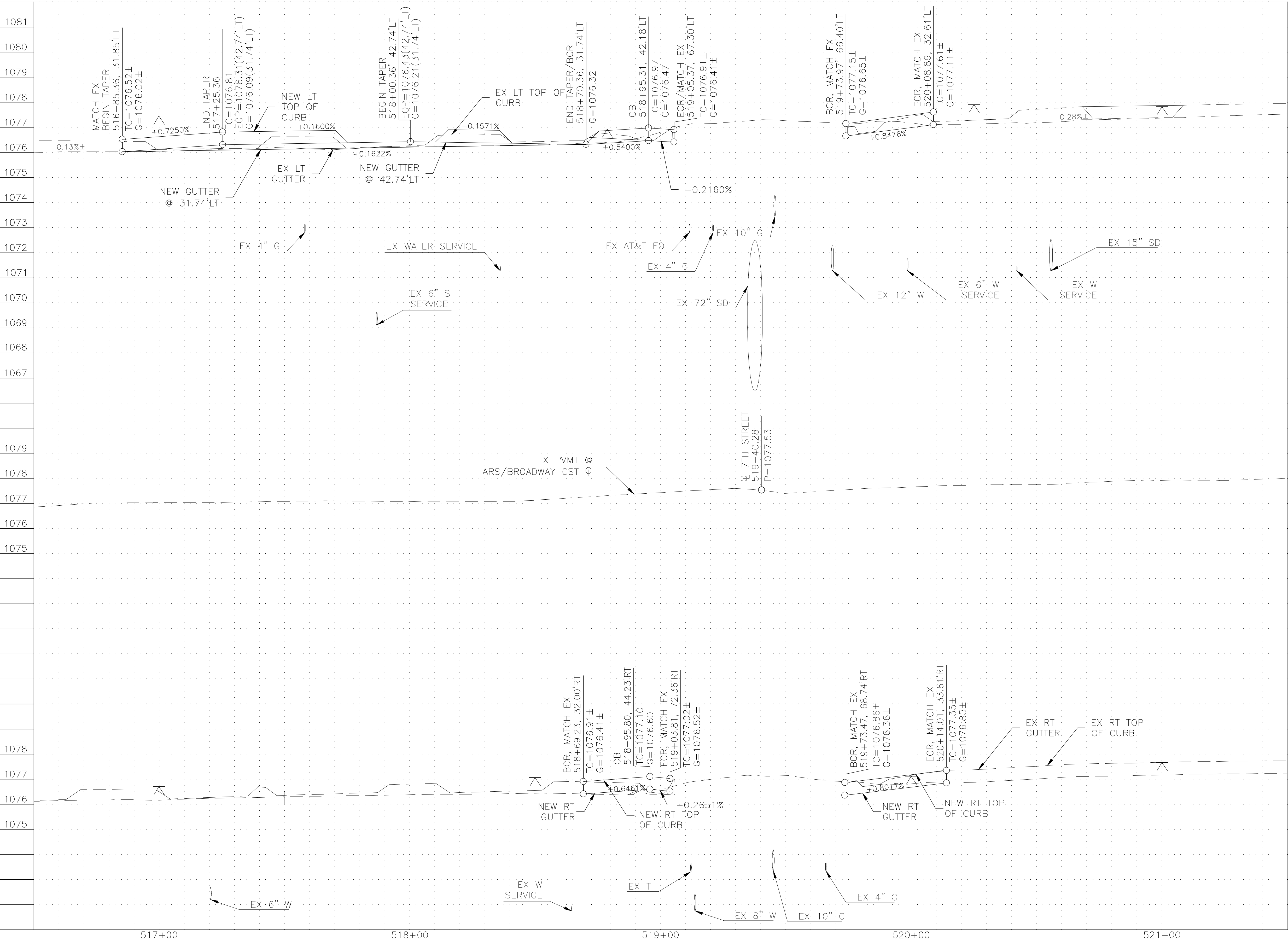
 T.B.M.: SET PK NAIL AT
 519+83.85, 79.51 RT
 ELEV = 1077.10
 BEHIND SIDEWALK AT SOUTHEAST
 CORNER OF ARS/BROADWAY AND 7TH ST.



1. SEE SHEET 26 & 27 FOR CONN. PIPE PROFILES
2. SEE SHEET 29 FOR DRIVEWAY PROFILES
3. SEE SHEET 41 FOR STREET LIGHTING PLAN
4. SEE SRP IRRIGATION PLANS FOR IRRIGATION RELOCATION
5. SEE SRP ELECTRICAL PLANS FOR POWER LINE RELOCATION

[illegible]

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
PHOENIX STREETS - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJECT NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85100371(002)	22	91	



the CK Group, Inc.
CIVIL TRANSPORTATION ENGINEERS
16448 N. 40th Street, Suite A
Phoenix, Ariz. 85032

CAUTION
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PAVING PROFILE 7TH ST

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

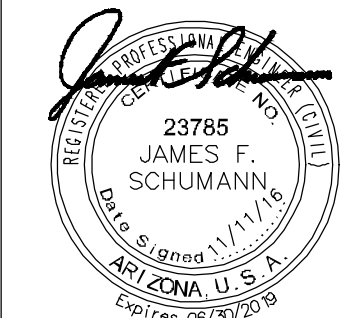
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DATE: 11/16	DATE: 11/16	DATE: 11/16	
SCALE: 1"=2' VERTICAL 1"=20' HORIZONTAL			PR-1.14

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				

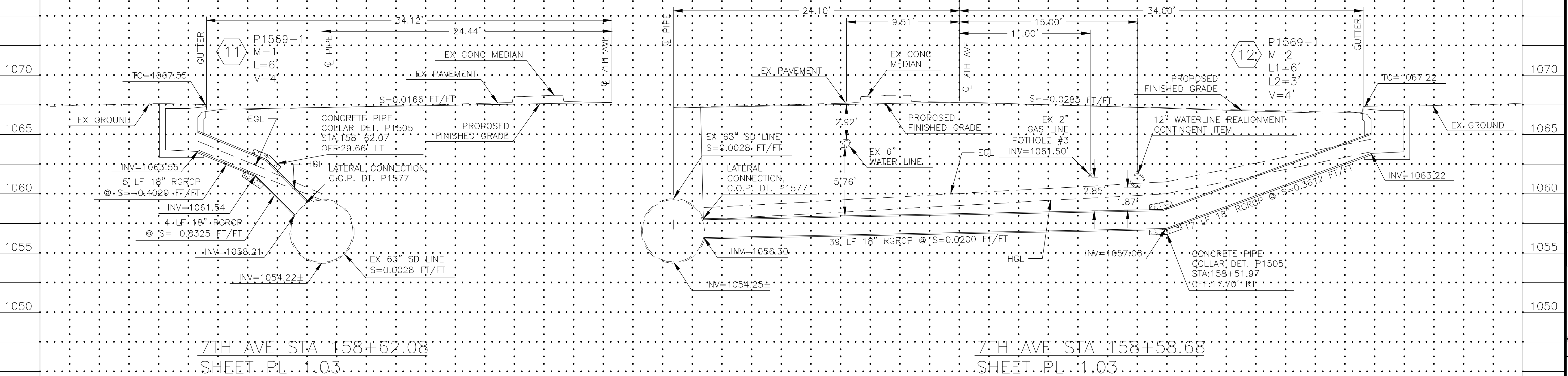
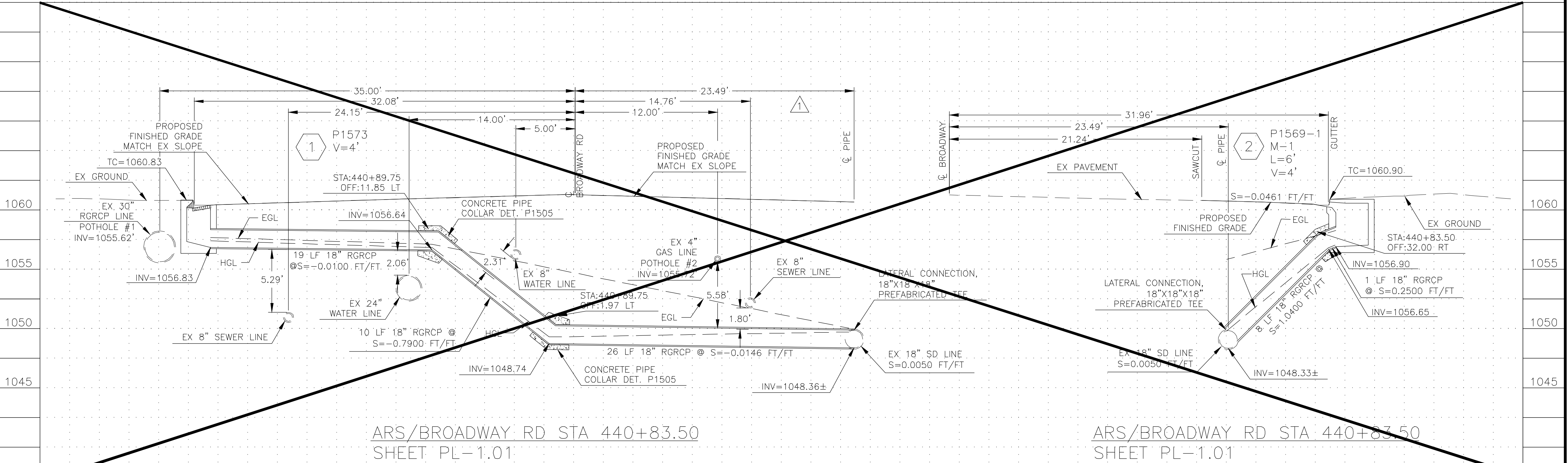
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
PHOENIX STREETS - MARICOPA CO.

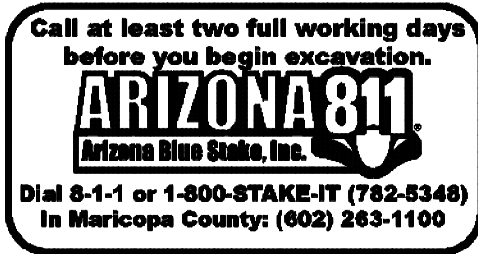


F.H.W.A. REGION	STATE	PROJECT NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85100371(002)	23	91	

the CK Group, Inc.
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Phoenix, Ariz. 85032



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SHEET REFERENCES

SEE SHEETS 09 & 11 FOR STORM DRAIN AND PAVING PLANS

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

CATCH BASIN CONNECTOR PIPE PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

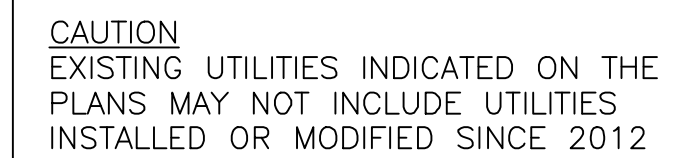
AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

DR: JV/CC	DES: AI/CC	CK: AI/JS	DWG SERIES No.
DATE: 11/16	DATE: 11/16	DATE: 11/16	
SCALE: 1"=5' VERTICAL			CP-1.01
SCALE: 1"=5' HORIZONTAL			

REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHK BY DATE

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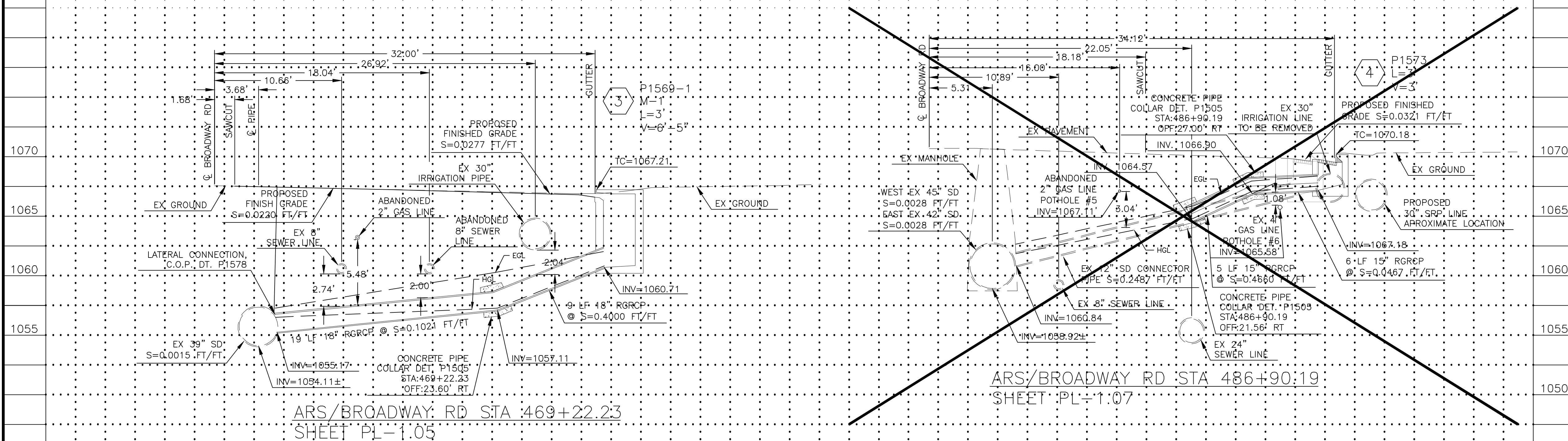
REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHK BY DATE



"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

DR: JV/CC	DES: AI/CC	CK: AI/JS	DWG SERIES No.
DATE: 11/16	DATE: 11/16	DATE: 11/16	
SCALE: 1"=5' VERTICAL 1"=5' HORIZONTAL			CP-1.02



AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
PHOENIX STREETS - MARICOPA CO.



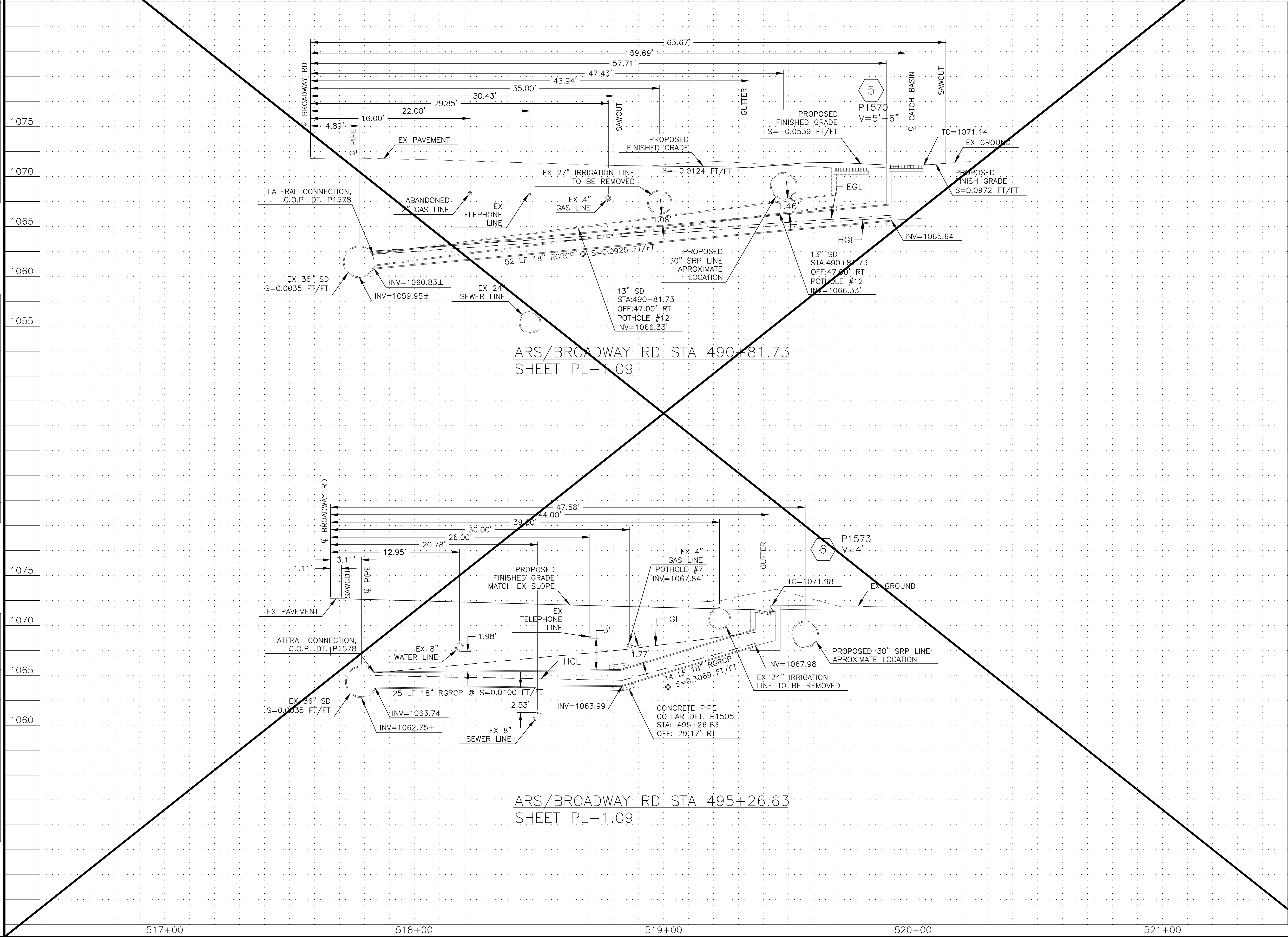
F.H.W.A. REGION	STATE	PROJECT NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85100371(002)	25	91	

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REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				

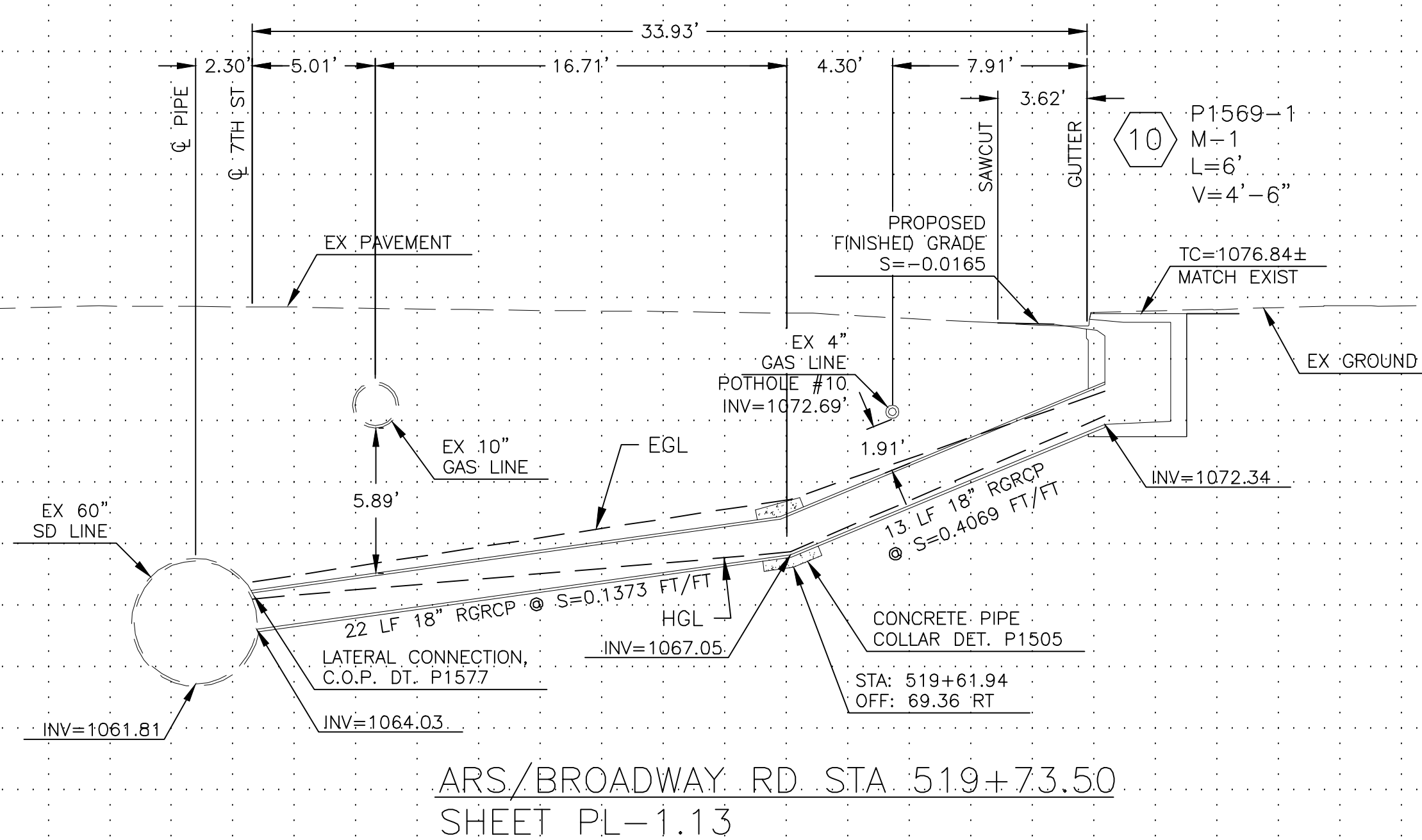
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				



SHEET REFERENCES	
1. SEE SHEET 17 FOR PAVING PLANS	
"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."	
CATCH BASIN CONNECTOR PIPE PROFILE	
CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT	
AVENIDA RIO SALADO/BROADWAY ROAD 15TH AVENUE TO 7TH STREET ST85100371(002)	
DR: JV/CC DATE: 11/16	DES: AI/CC DATE: 11/16
CK: AI/JS DATE: 11/16	DWG SERIES No. CP-1.03
SCALE: 1"=5' VERTICAL 1"=5' HORIZONTAL	

CK GROUP
Engineers & Construction Managers

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Phoenix, Ariz. 85032

[illegible]

Call at least two full working days
before you begin excavation.

ARIZONA 811
Arizona Blue Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
in Maricopa County: (602) 263-1100

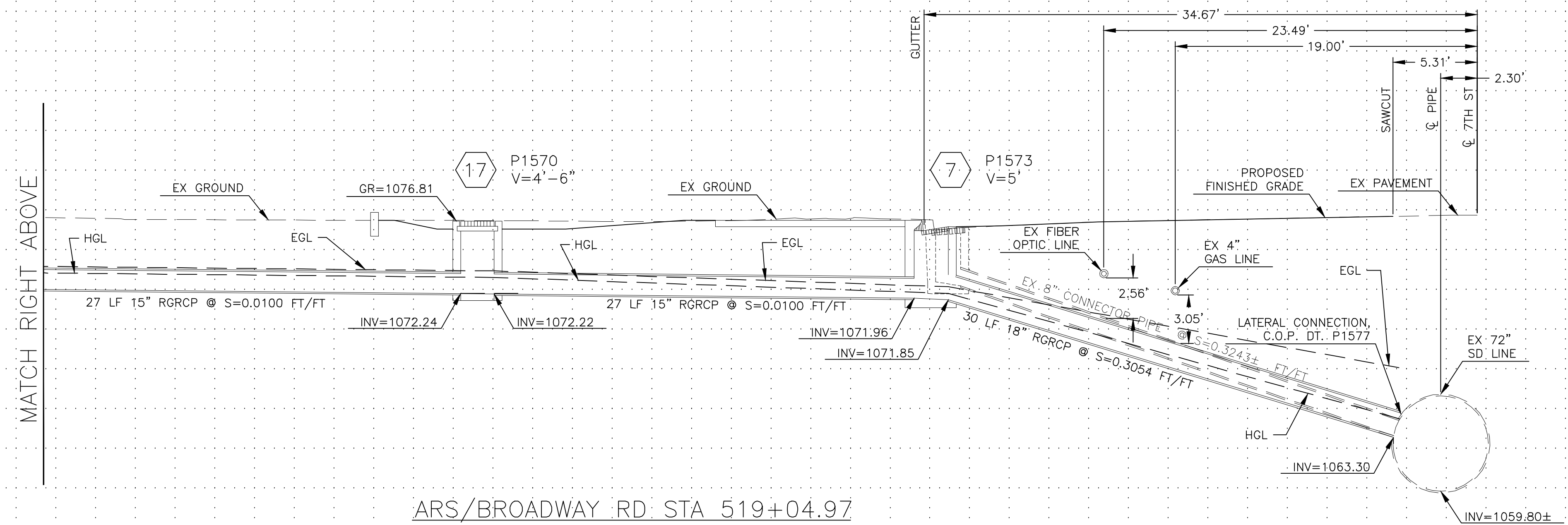
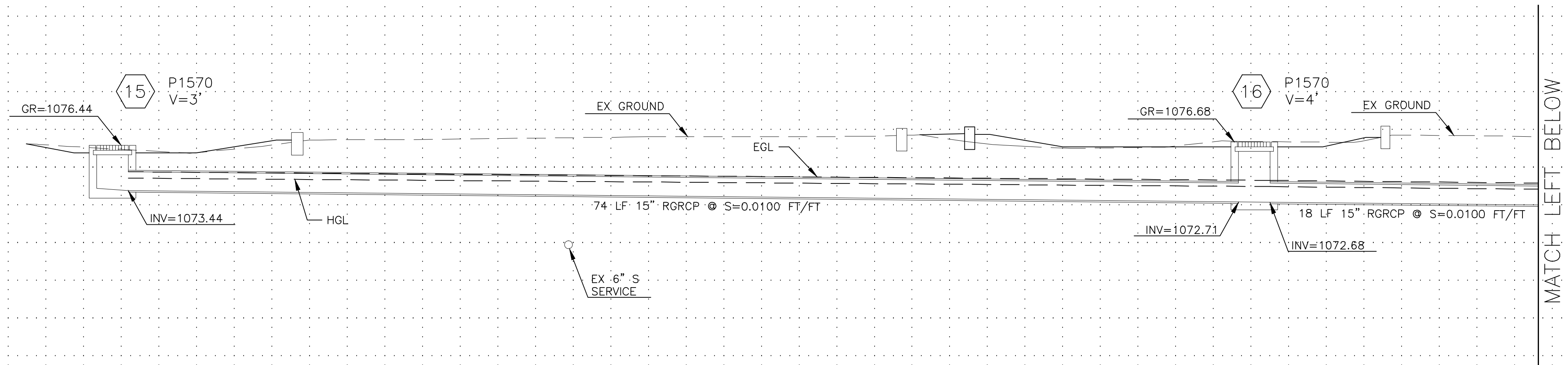
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DATE: 11/16	DATE: 11/16	DATE: 11/16	
SCALE: 1"=5' VERTICAL 1"=5' HORIZONTAL			CP-1.04

F.H.W.A. REGION	STATE	PROJECT NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85100371(002)	27	91	



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Engineers & Construction Managers

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CIVIL TRANSPORTATION ENGINEERS
16448 N. 40th Street, Suite A
Phoenix, Ariz. 85032



CAUTION
EXISTING UTILITIES INDICATED ON THE
PLANS MAY NOT INCLUDE UTILITIES
INSTALLED OR MODIFIED SINCE 2012



SHEET REFERENCES

SEE SHEET 21 FOR STORM DRAIN AND PAVING
PLANS

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

CATCH BASIN CONNECTOR PIPE PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

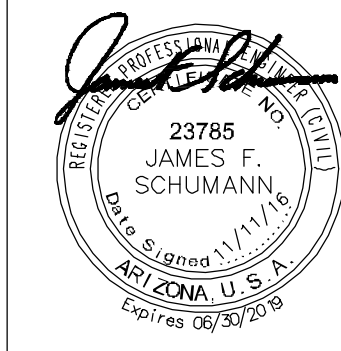
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DATE: 11/16	DATE: 11/16	DATE: 11/16	
SCALE: 1"=5' VERTICAL 1"=5' HORIZONTAL			CP-1.05

REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHK BY DATE


REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHK BY DATE

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
PHOENIX STREETS - MARICOPA CO.

STORM DRAIN ALTERNATE PIPE MATERIAL



F.H.W.A. REGION	STATE	PROJECT NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85100371(002)	28	91	



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Equipment & Construction Management

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 Phoenix, Ariz. 85032

MAIN LINE PIPE

[illegible]

CONNECTOR PIPE

LOCATION STATION (LT. or RT.)	QUANTITY L.F.	DEPTH TO TOP OF PIPE		PIPE DIA. R.C.P., C.S.P., & HDPE *** (I.D.) IN.	R.C.P. ** MIN. D-LOAD (TO PRODUCE 0.01" CRACK)	C.S.P. 2 2/3" x 1/2" CORR. ALUMINIZED TYPE "2" MIN. GAGE
		MIN. (FT.)	MAX (FT.)			
ARS/BROADWAY RD						
448+83.58 RT	9	2.0	7.9	18	1800 CLASS IV	14
448+83.58 LT	55	2.0	10.7	18	1800 CLASS IV	14
469+22.23 RT	28	4.4	10.6	18	1800 CLASS IV	14
486+30.19 RT	11	1.3	4.3	15	900 CLASS IV	14
490+81.73 RT	52	3.9	9.4	18	900 CLASS IV	14
495+26.63 RT	39	2.0	7.2	18	1450 CLASS IV	14
519+04.97 LT	30	3.0	12.3	18	1450 CLASS IV	14
519+02.97 RT	33	5.9	11.5	18	1950 CLASS IV	14
519+74.32 LT	33	1.1	12.7	18	900 CLASS IV	14
519+73.50 RT	35	2.4	11.5	18	1950 CLASS IV	14
517+56.73 LT	74	1.2	2.3	15	1250 CLASS IV	14
518+31.84 LT	45	2.3	2.7	15	1350 CLASS IV	14
518+78.02 LT	27	2.7	3.6	15	1450 CLASS IV	14
7TH AVENUE						
158+62.08 LT	9	1.9	7.9	18	1450 CLASS IV	14
158+58.68 RT	56	1.9	9.4	18	1650 CLASS IV	14
161+24.56 LT	13	3.9	8.6	18	1600 CLASS IV	14
161+24.15 RT	56	1.9	9.4	18	1650 CLASS IV	14

GENERAL NOTES:

1. ONLY PIPE MATERIALS SPECIFIED ON THIS SHEET ARE ACCEPTABLE FOR THIS PROJECT.
2. WHERE MAXIMUM TRENCH WIDTH IS NOTED AS "UNRESTRICTED", PIPE STRENGTHS ARE SPECIFIED FOR A POSITIVE PROJECTING OR EMBANKMENT LOADING CONDITION. TRENCH WIDTH RESTRICTIONS FOR THE CAST-IN-PLACE CONCRETE PIPE OPERATION, SHALL COMPLY WITH SECTION 620.
3. CITY POLICY REQUIRES THAT CAST-IN-PLACE PIPE AND CORRUGATED STEEL PIPE MAINLINES BE UPSIZED A MINIMUM OF 6-INCHES GREATER DIAMETER THAN THE SPECIFIED REINFORCED CONCRETE PIPE DIAMETER. IF EITHER OF THESE OPTIONS ARE USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING ANY UTILITY CONFLICTS ASSOCIATED WITH THE INCREASED PIPE DIAMETER. MINIMUM WALL THICKNESS FOR CAST-IN-PLACE PIPE SHALL BE 1/12 OF INSIDE DIAMETER PLUS ONE INCH, BASED ON THE UPSIZED DIAMETER.
4. A MINIMUM OF 14 GAUGE IS REQUIRED FOR ALL CSP BY CITY OF PHOENIX TO OBTAIN DESIGN LIFE REQUIREMENTS OF 75 YEARS TO FIRST PERFORATION.
5. WHERE NEW MAINLINE STORM DRAIN CONNECTION TO EXISTING MAINLINE SYSTEM IS REQUIRED, AND THE NEW MAINLINE IS LARGER THAN THE EXISTING, (SUCH AS NEW 6" OVERSIZED CIPP OR CSP CONNECTING TO EXISTING RGRCP), PIPE INVERTS SHALL BE MATCHED. IN ALL OTHER CASES, INSIDE TOP OF PIPE (CROWN) ELEVATIONS SHALL BE MATCHED.
6. MAX TRENCH WIDTH AT TOP OF PIPE SHALL BE BASED ON MAG PAY WIDTH ON PROJECTS WITH MINIMUM PAVEMENT REPLACEMENT ("PATCH"). ON PROJECTS WITH NEW FULL PAVEMENT (SUCH AS MAJOR ARTERIAL STREET CONSTRUCTION PROJECTS), THE MAX TRENCH WIDTH SHALL BE LABELED, "UNRESTRICTED".

* TYPE "F" - COATED AND CONCRETE LINED CSP
CITY OF PHOENIX SUPPLEMENT TO MARICOPA ASSOCIATION
OF GOVERNMENTS UNIFORM STANDARD SPECIFICATIONS.

** RUBBER GASKETED PIPE REQUIRED FOR ALL REINFORCED CONCRETE PIPE

*** HIGH DENSITY POLYETHYLENE (HDPE), TYPE "S" WITH WATERTIGHT JOINTS PER AASHTO 252, AASHTO M294, MAG AND CITY SUPPLEMENTS TO MAG. JOINTS SHALL MEET ASTM D-3212 WATERTIGHT REQUIREMENT (10.8 psi). MAXIMUM DIAMETER ALLOWED = 48-INCH.

**** THE MINIMUM DIAMETER FOR CIPP IS 30 INCHES



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ALTERNATE PIPE MATERIAL CHART

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

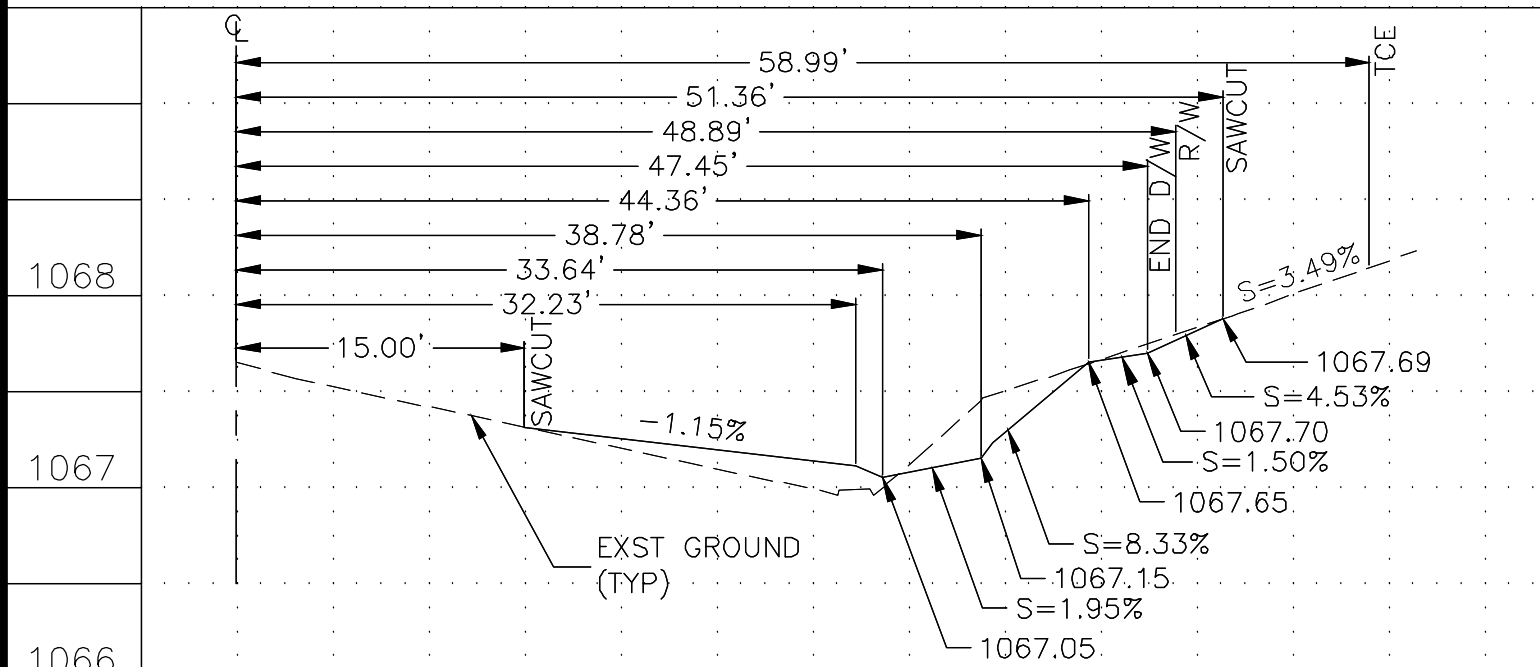
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DATE: 11/16	DATE: 11/16	DATE: 11/16	
SCALE: NOT TO SCALE			AP-1.01

F.H.W.A. REGION	STATE	PROJECT NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85100371(002)	29	91	

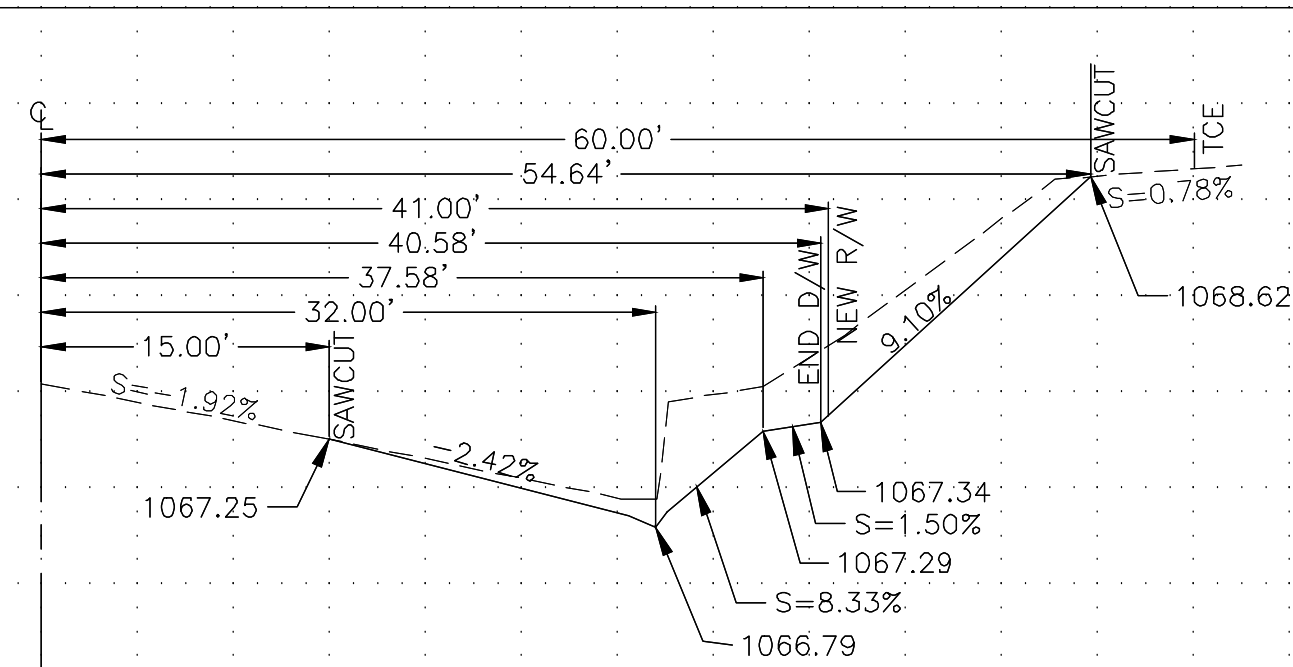


the CK Group, Inc.
CIVIL TRANSPORTATION ENGINEERS
16448 N. 40th Street, Suite A
Phoenix, Ariz. 85032

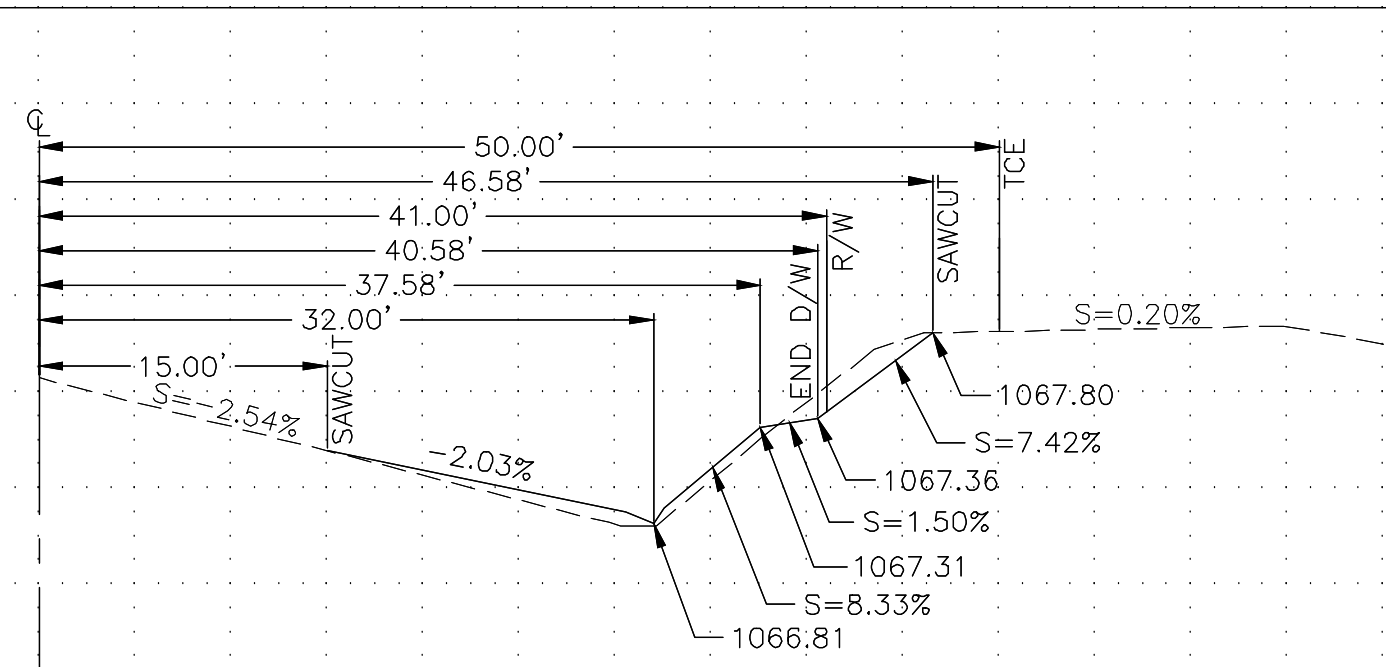
REVISION BY CITY OF PHOENIX					
NO.	DESCRIPTION	REV BY	CKD BY	DATE	



STA: 467+19.90 RT: (ARS/BROADWAY ROAD)

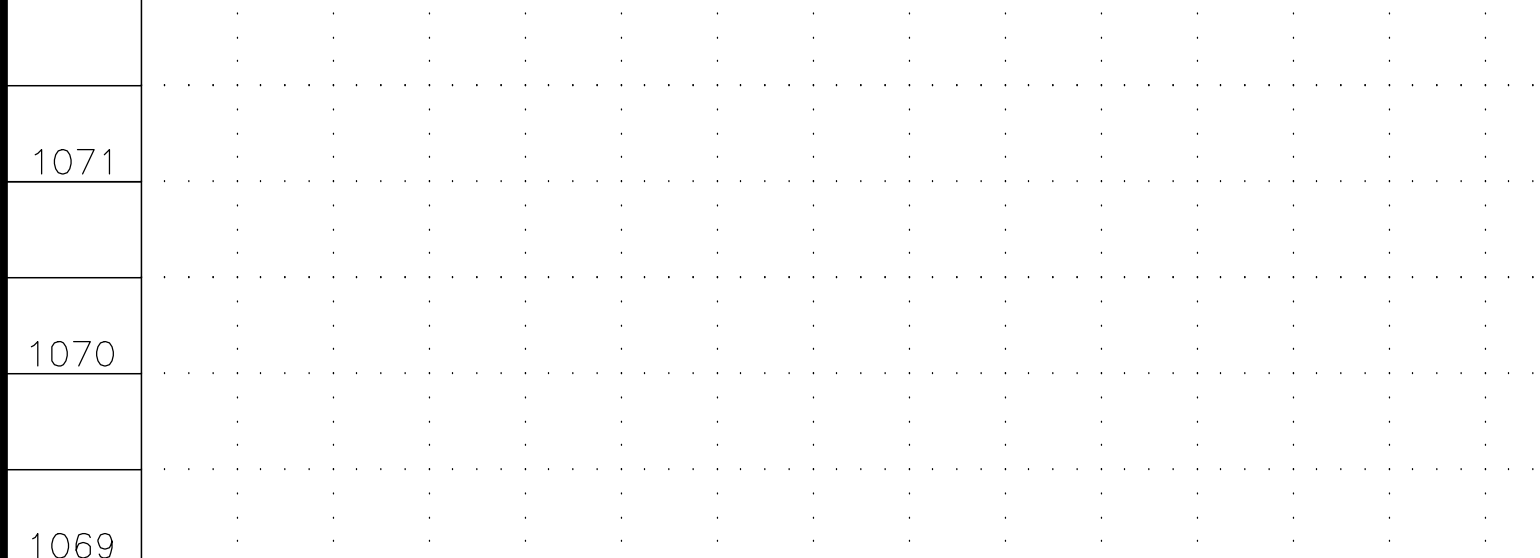


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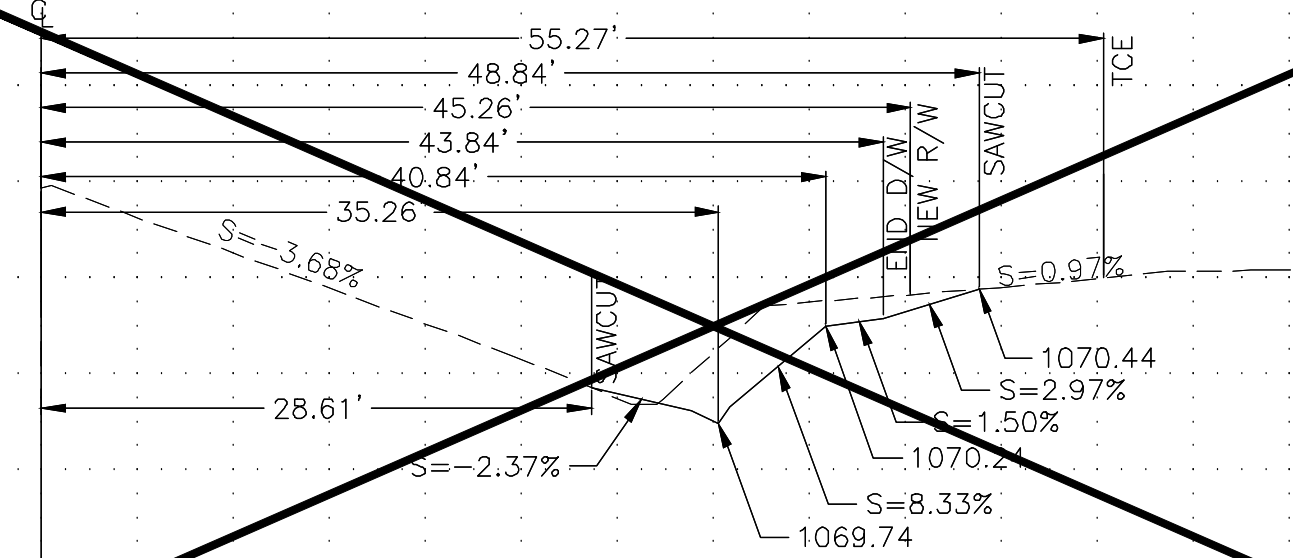


STA: 469+68 RT (ARS/BROADWAY ROAD)

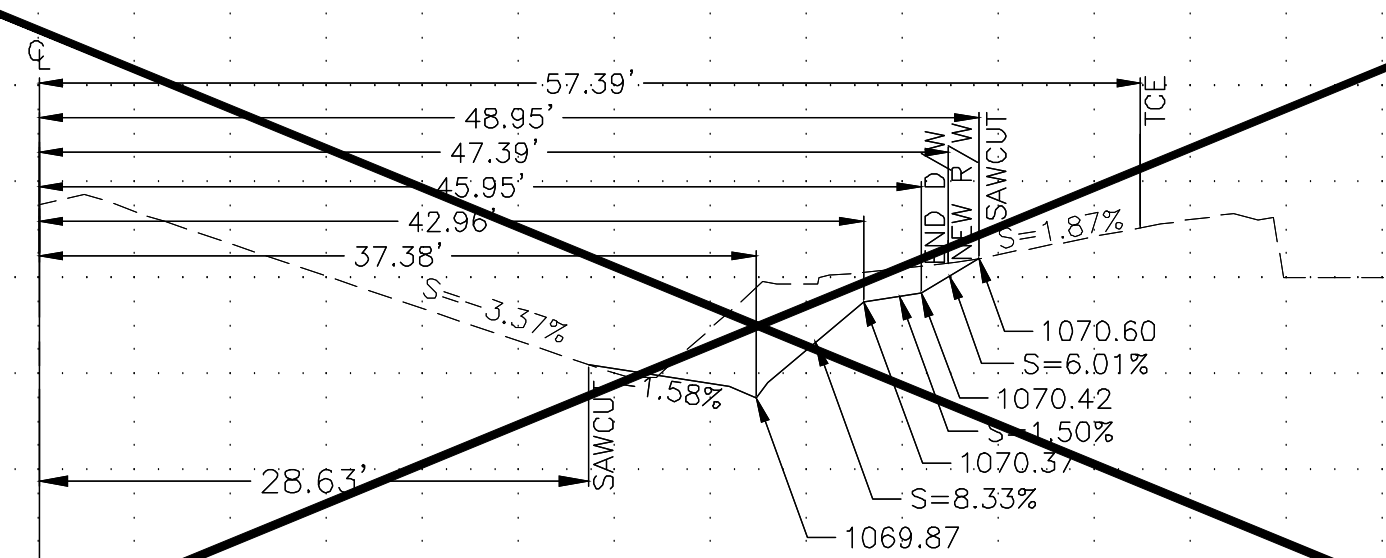
REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHK BY DATE



STA: 489+40.67: RT: (ARS/BROADWAY ROAD)

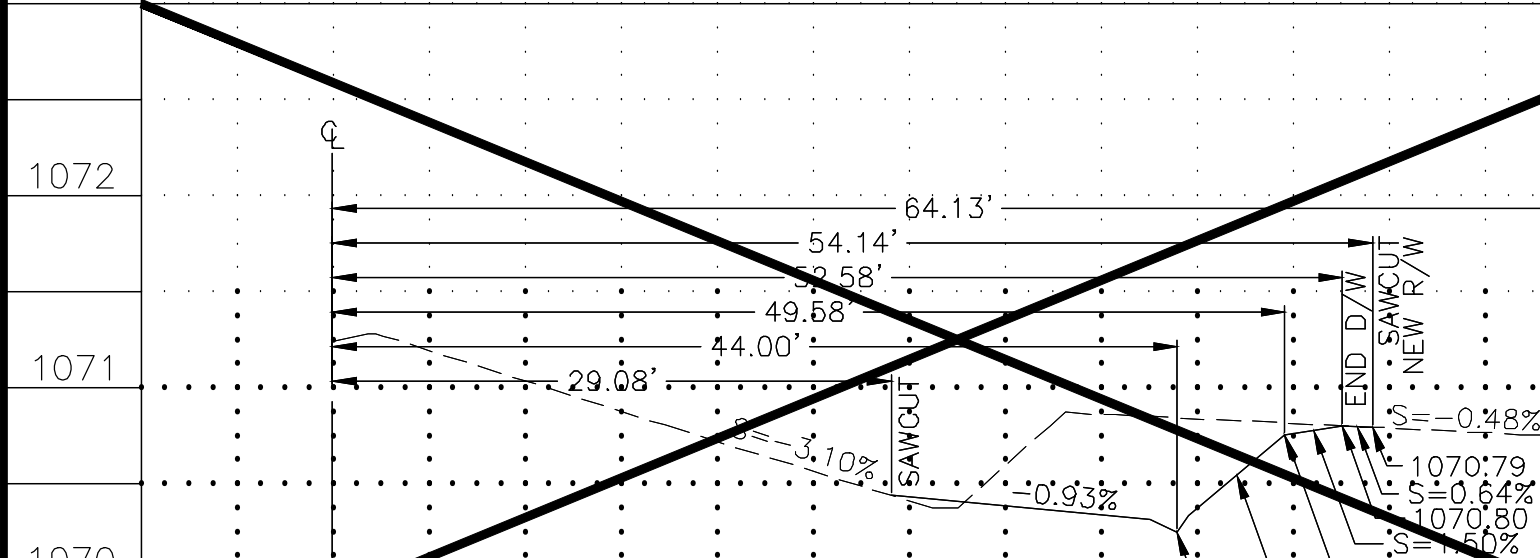


STA: 489+90.77 RT (ARS/BROADWAY ROAD)

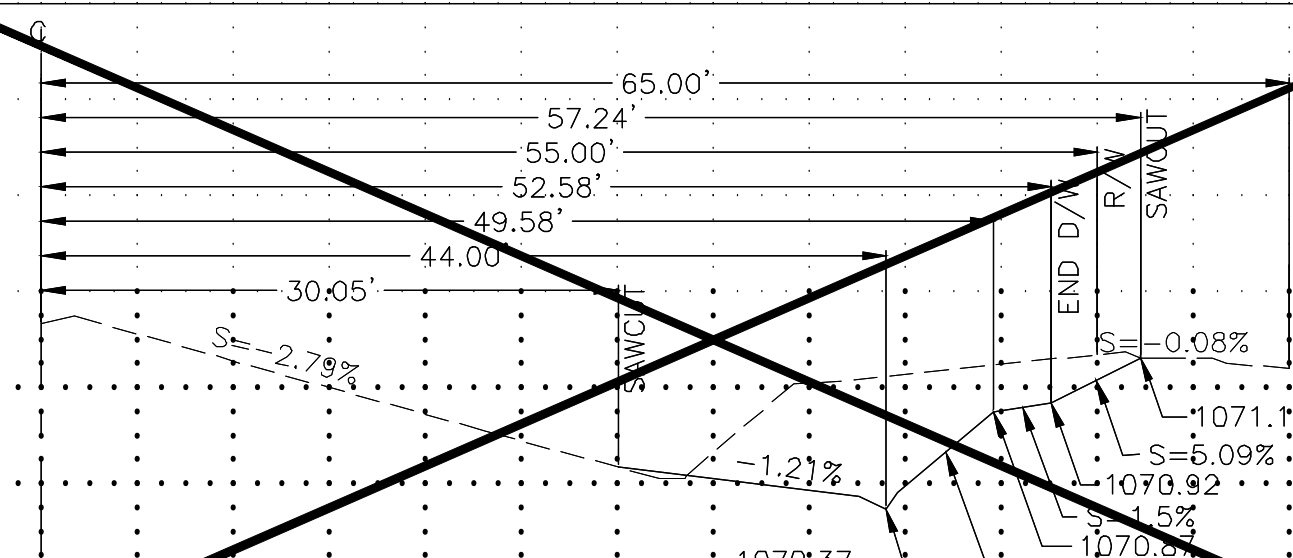


STA: 490+44.08 RT: (ARS/BROADWAY ROAD)

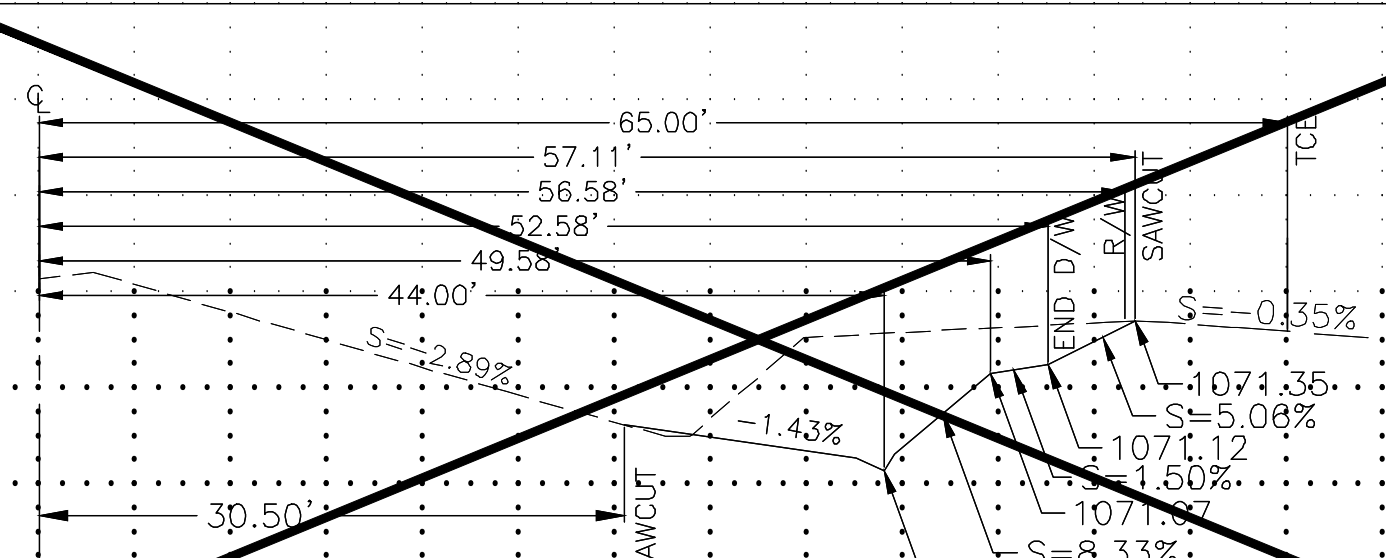
REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CKD BY DATE



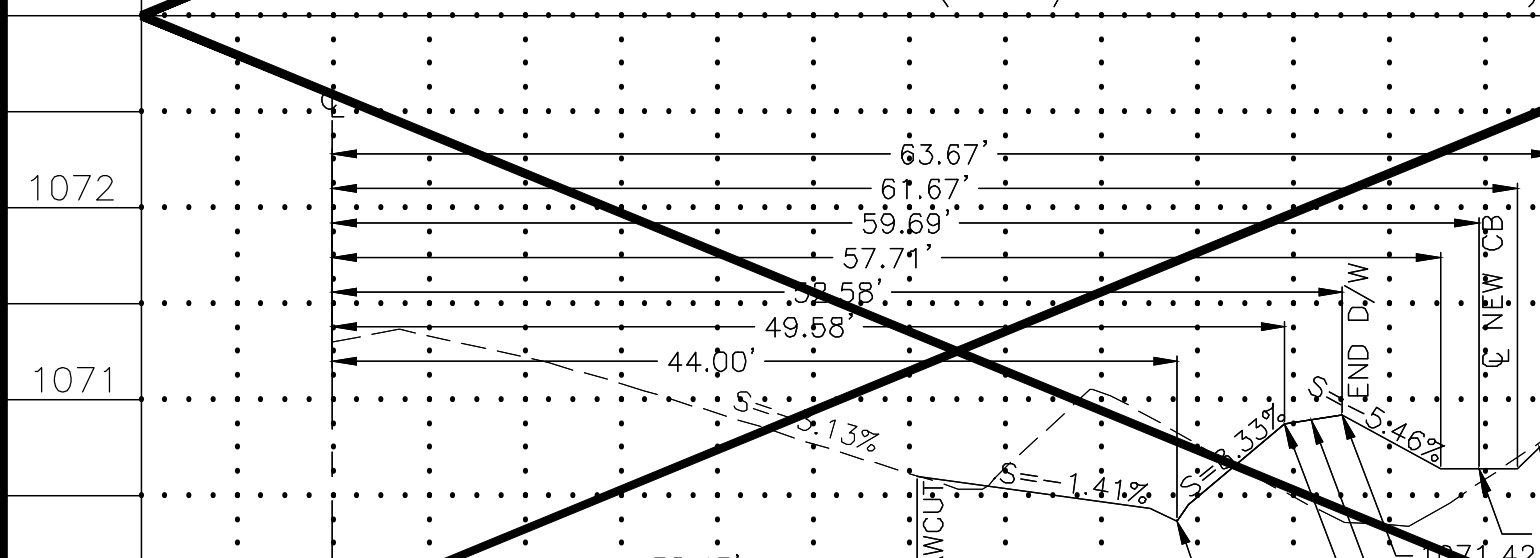
STA: 490+82.61 : RT : (ARS/BROADWAY ROAD)



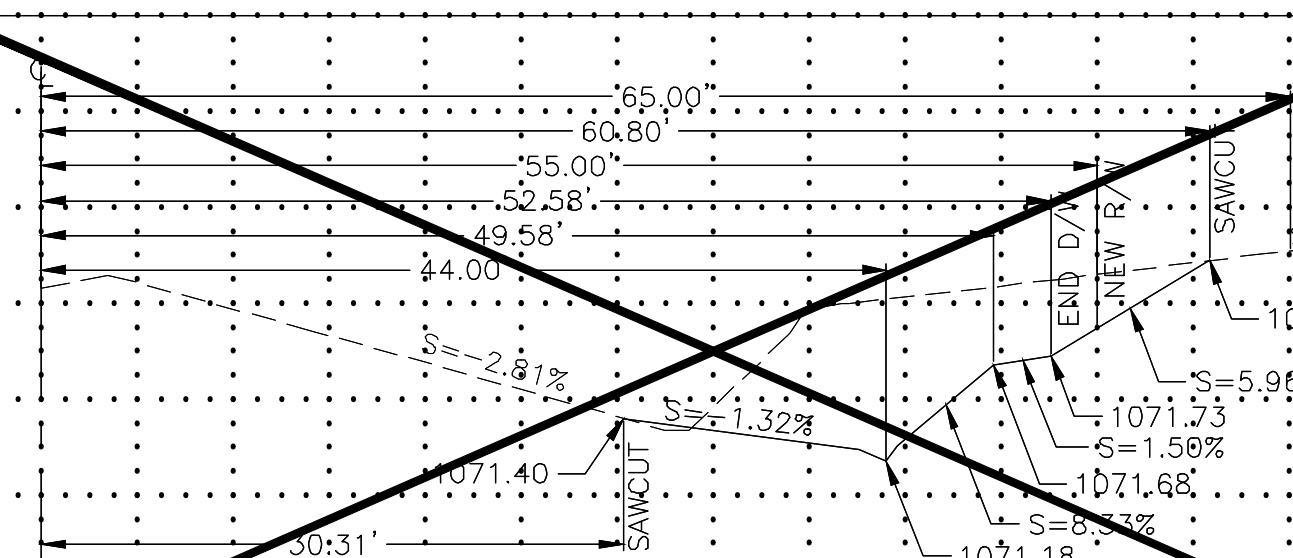
STATION: 491+20.73 R/L ARS/BROADWAY ROAD



51A: 517.792.60: L1: (ARS/BROADWAY ROAD



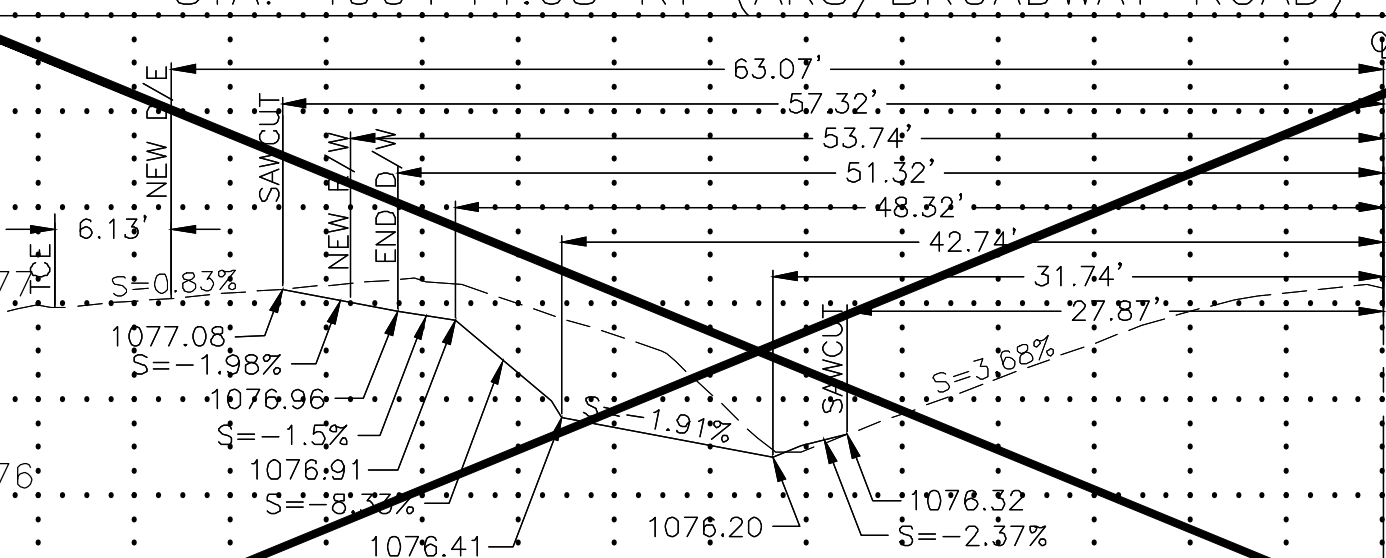
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: : STA: 1:60+34:80 :RT : (7TH AVENUE):

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51A: 517.792.60: L1: (ARS/BROADWAY ROAD

SEE SHEET 05 TO 11 FOR STORM DRAIN AND
PAVING PLANS



"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

DRIVEWAY PROFILES


CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

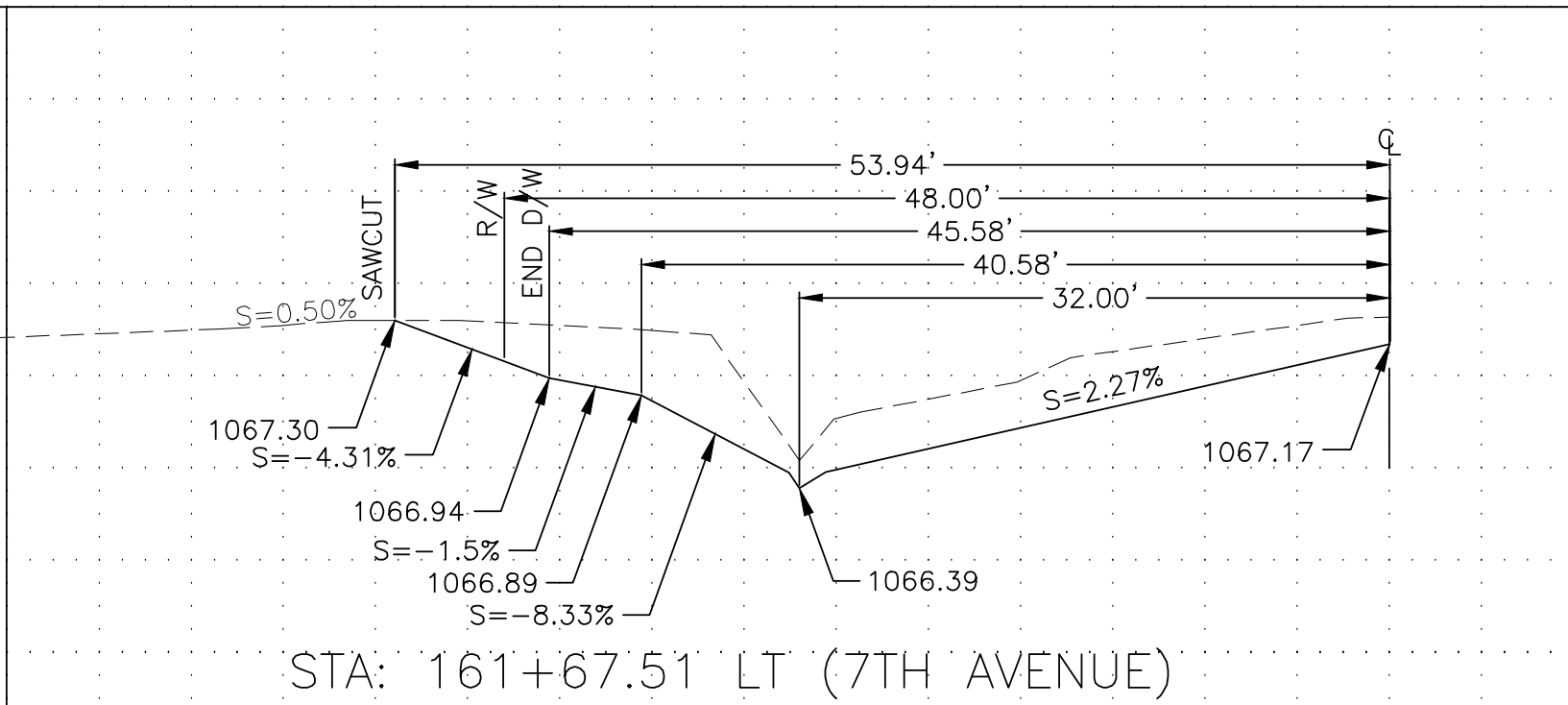
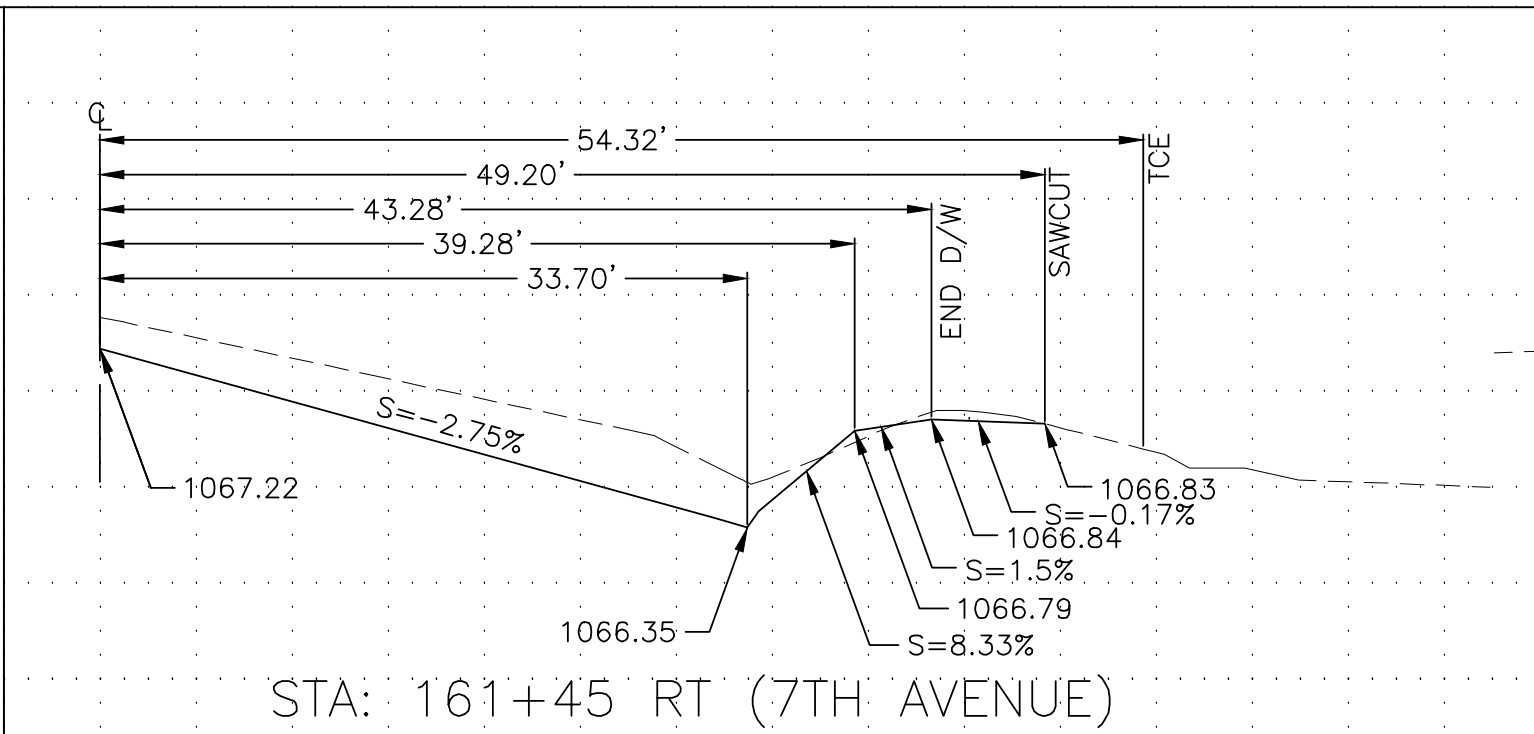
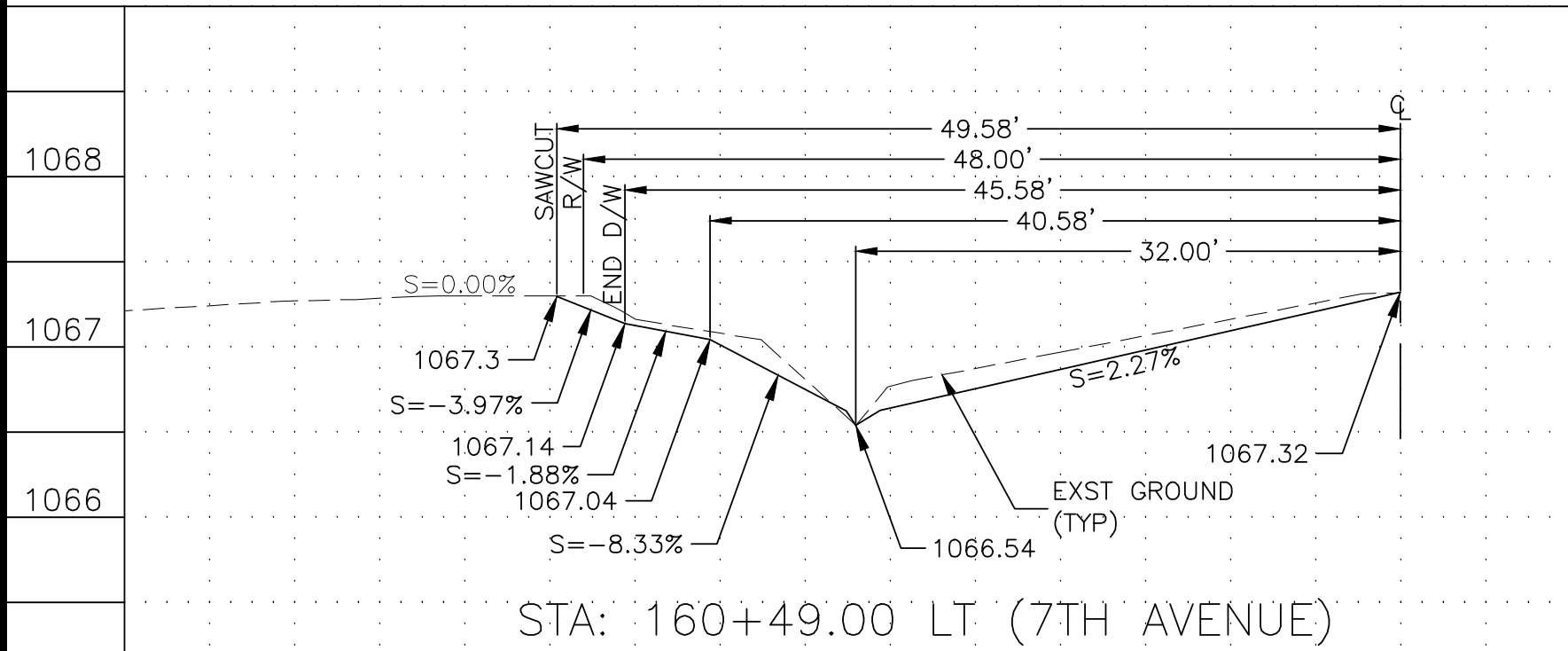
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DATE: 11/16	DATE: 11/16	DATE: 11/16	
SCALE: 1"=1' VERTICAL 1"=10' HORIZONTAL			DP-1.01

ST85100371(002)

F.H.W.A. REGION	STATE	PROJECT NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85100371(002)	30	91	

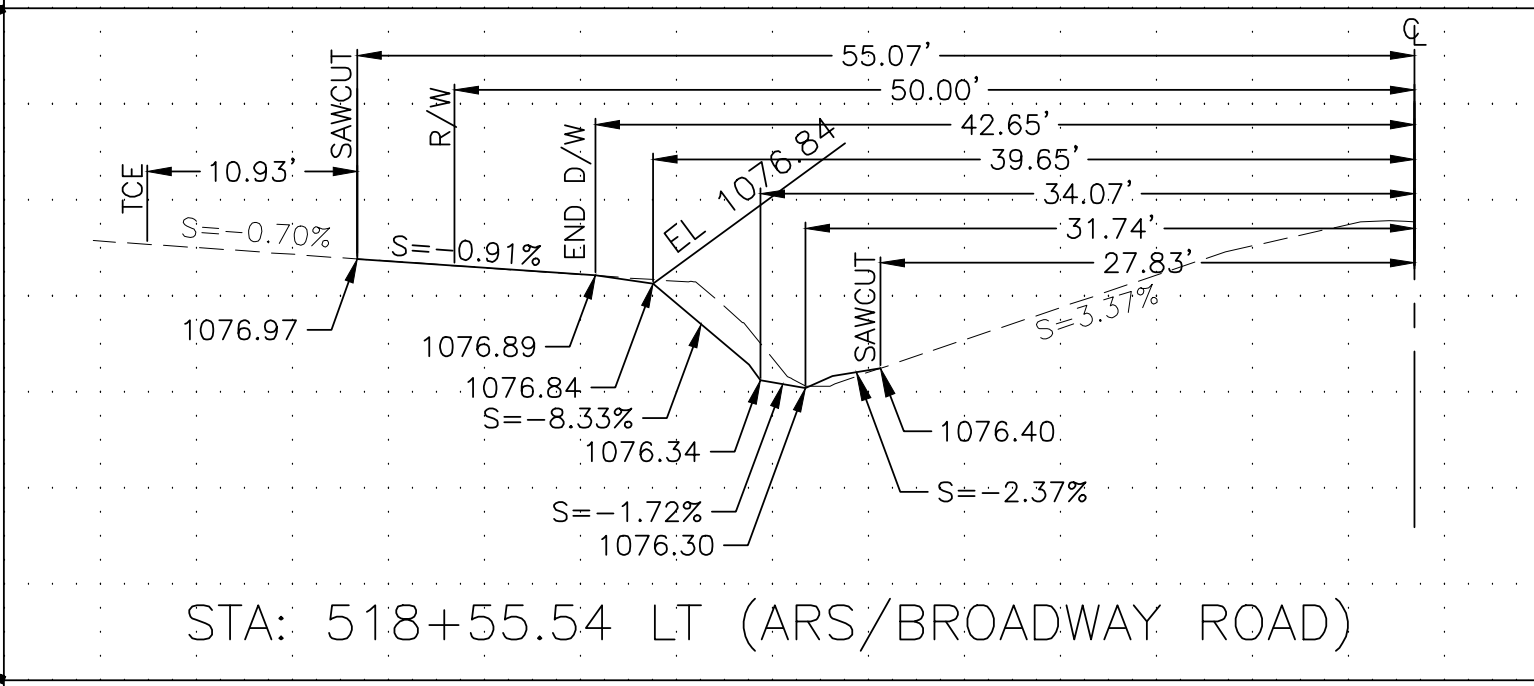
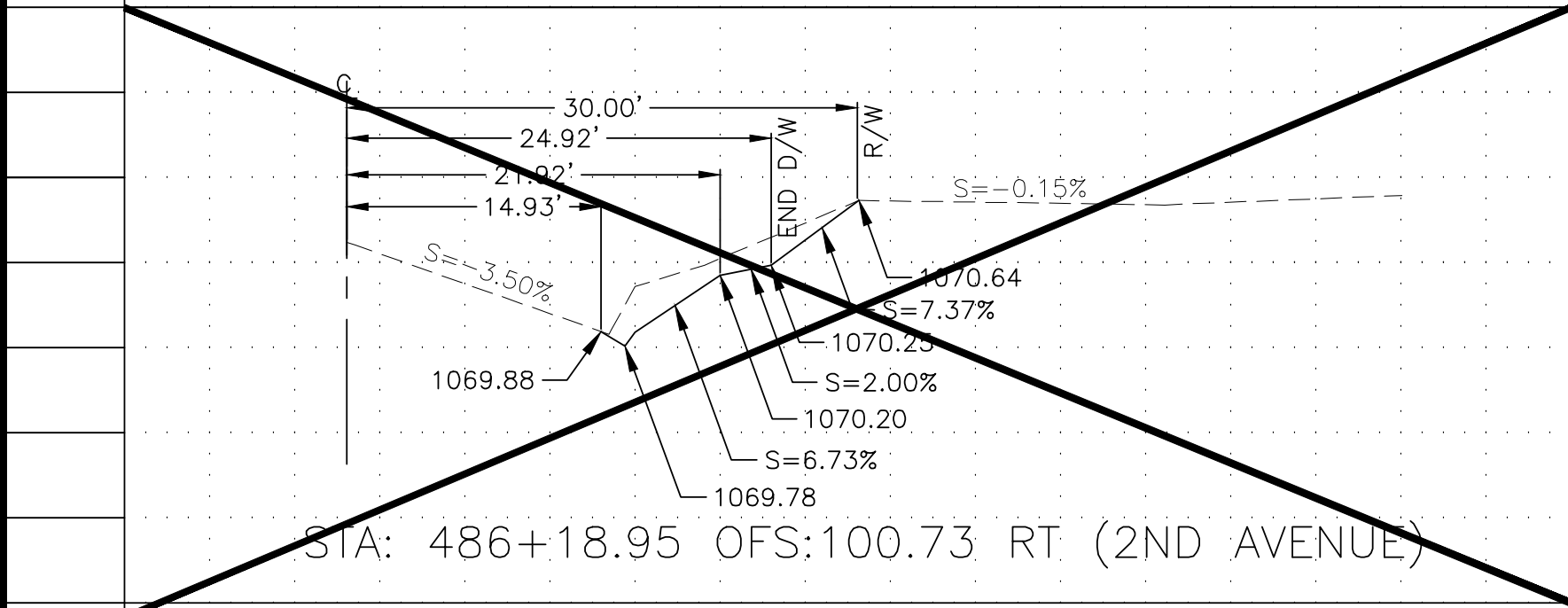


the CK Group, Inc.
 CIVIL - TRANSPORTATION ENGINEERS
 16448 N. 40th Street, Suite A
 Phoenix, Ariz. 85032

[illegible]

1068
1067
1066

REVISION BY CITY OF PHOENIX				
NO.	DESCRIPTION	REV BY	CHK BY	DATE



[illegible]

SEE SHEET 05 TO 11 FOR STORM DRAIN AND
PAVING PLANS



"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

DRIVEWAY PROFILES

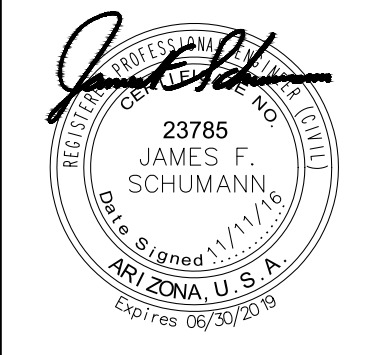
AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

DR: JV/CC	DES: AI/CC	CK: AI/JS	DWG SERIES No.
DATE: 11/16	DATE: 11/16	DATE: 11/16	
SCALE: 1"=1' VERTICAL 1"=10' HORIZONTAL			DP-1.02


ST85100371(002)

[illegible][illegible][illegible]

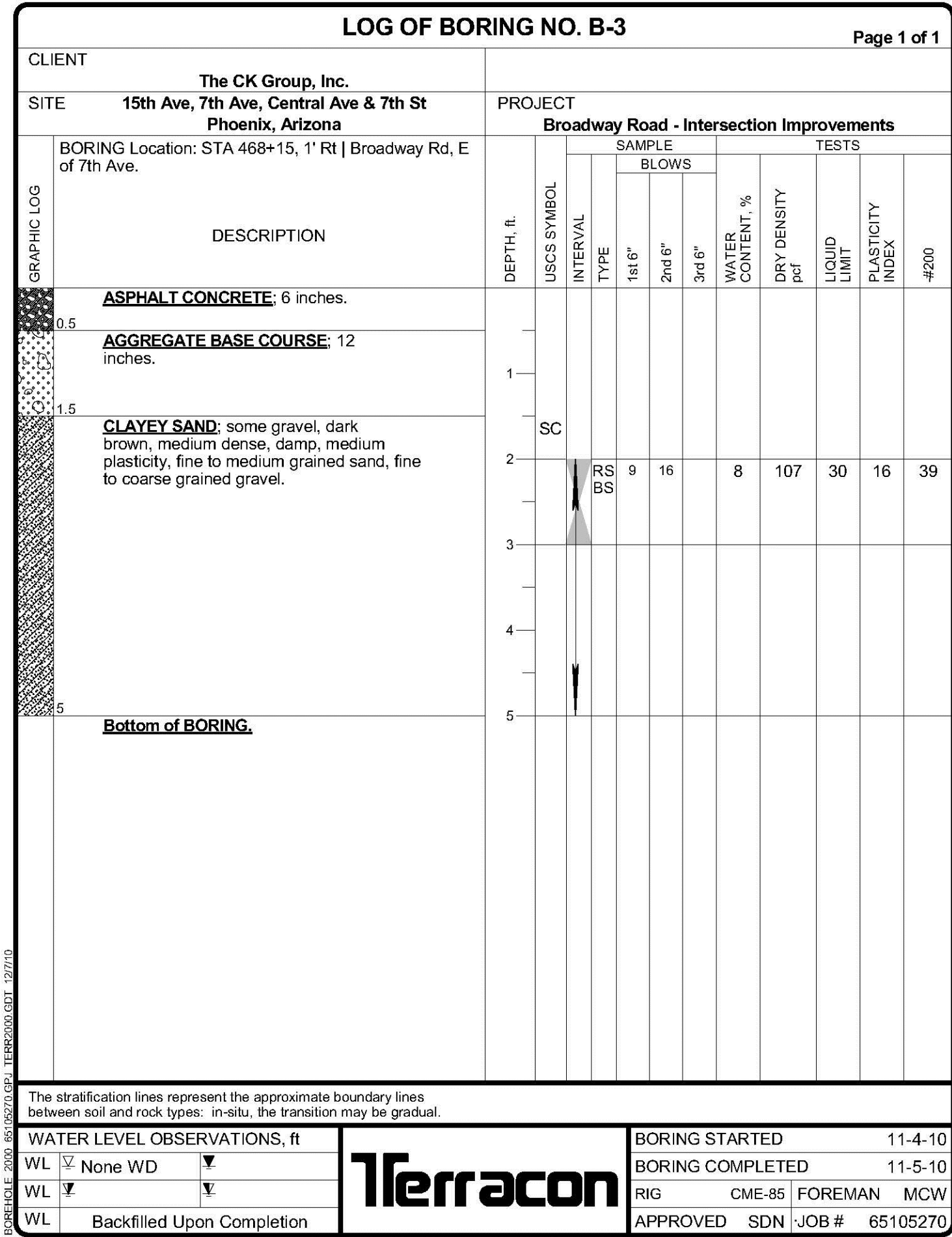
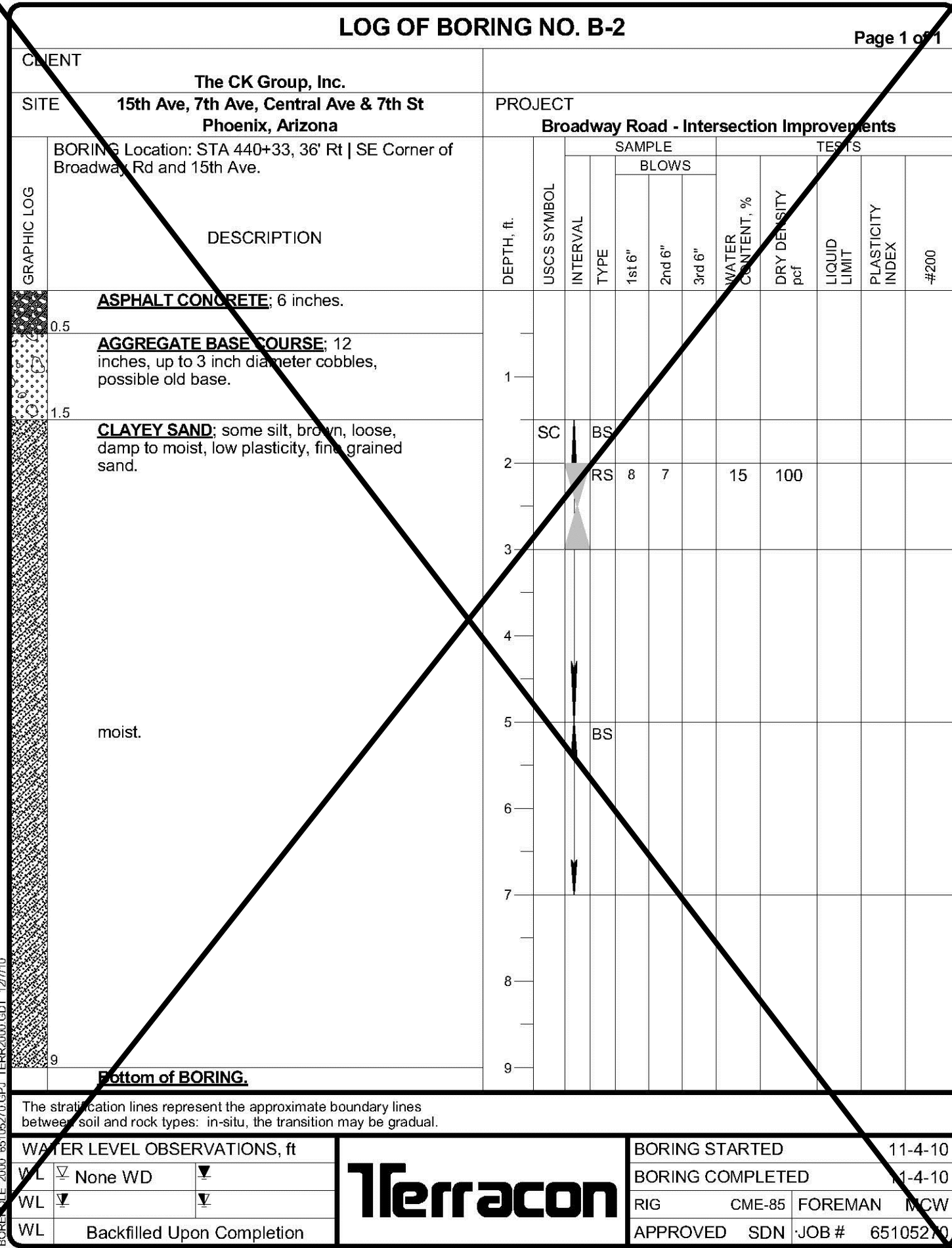
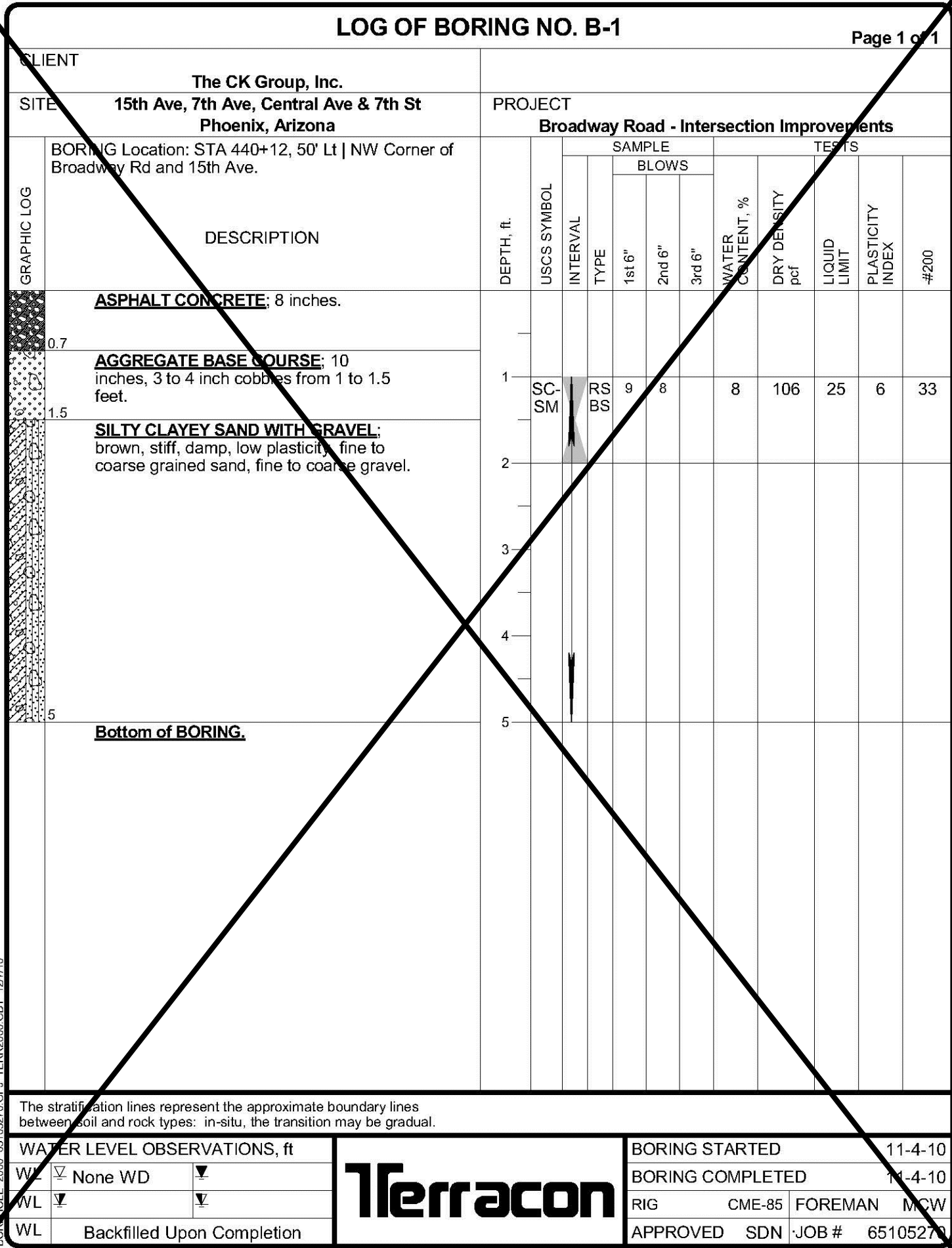
AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
PHOENIX STREETS - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJECT NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85100371(002)	32	91	

 **CK GROUP**
Customer & Construction Manager

the CK Group, Inc.
 CIVIL / TRANSPORTATION ENGINEERS
 18448 N. 40th Street, Suite A
 Phoenix, Ariz. 85032



THE MATERIAL BORING LOGS SHOWN ON THESE PLANS ARE INCLUDED FOR THE CMAR'S CONVENIENCE ONLY. THEY ARE NOT INTENDED TO IMPLY THAT THE CHARACTER OF MATERIALS SHOWN IN THE LOGS IS REPRESENTATIVE THROUGHOUT THE PROJECT. THE SOIL BORINGS ARE INDICATIVE OF THE SOIL CHARACTERISTICS ONLY AT THE LOCATION AND TO THE DEPTH OF EACH OF THE BORINGS. EVEN IF NOT SPECIFICALLY SHOWN IN THE GEOTECHNICAL INFORMATION PROVIDED, THE CMAR MAY ENCOUNTER LARGE COBBLES, BOULDERS, CALICHE, CONGLOMERATE, HARD ROCK, PERCHED GROUNDWATER, HISTORIC OR PREHISTORIC CULTURAL RESOURCES, OR OTHER DIFFERING SITE CONDITIONS ON THIS PROJECT.



"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

BORING LOGS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

DR: JV/CC	DES: AI/CC	CK: AI/JS	DWG SERIES No.
DATE: 11/16	DATE: 11/16	DATE: 11/16	
SCALE: NOT TO SCALE			BL-1.02

REVISION BY CITY OF PHOENIX				
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[illegible][illegible]

CLIENT		PROJECT																																																																																																																																																		
The CK Group, Inc. 15th Ave, 7th Ave, Central Ave & 7th St Phoenix, Arizona		Broadway Road - Intersection Improvements																																																																																																																																																		
BORING Location: STA 490+35, 5' Rt Broadway Rd, W of Central Ave.		<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="3">GRAPHIC LOG</th> <th rowspan="3">DEPTH, ft.</th> <th rowspan="3">USCS SYMBOL</th> <th rowspan="3">INTERVAL</th> <th colspan="3">SAMPLE BLOWS</th> <th colspan="4">TESTS</th> </tr> <tr> <th rowspan="2">1st 6"</th> <th rowspan="2">2nd 6"</th> <th rowspan="2">3rd 6"</th> <th rowspan="2">WATER CONTENT, %</th> <th rowspan="2">DRY DENSITY, pcf</th> <th rowspan="2">LIQUID LIMIT</th> <th rowspan="2">PLASTICITY INDEX</th> <th rowspan="2">#200</th> </tr> <tr> </tr> </thead> <tbody> <tr> <td style="background-color: #cccccc; height: 10px;"></td> <td>0.6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="background-color: #cccccc; height: 10px;"></td> <td>1.1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="background-color: #cccccc; height: 10px;"></td> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> </div> <div style="width: 50%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>ASPHALT CONCRETE; 7 inches.</td> </tr> <tr> <td>AGGREGATE BASE COURSE; 5.5 inches.</td> </tr> <tr> <td>POORLY GRADED GRAVEL WITH SILT AND SAND; some cobbles, brown, very dense, slightly damp, non-plastic, coarse grained gravel, fine to coarse grained sand.</td> </tr> <tr> <td>Bottom of BORING.</td> </tr> </tbody> </table> </div> </div>		GRAPHIC LOG	DEPTH, ft.	USCS SYMBOL	INTERVAL	SAMPLE BLOWS			TESTS				1st 6"	2nd 6"	3rd 6"	WATER CONTENT, %	DRY DENSITY, pcf	LIQUID LIMIT	PLASTICITY INDEX	#200		0.6													1.1													5												DESCRIPTION	ASPHALT CONCRETE ; 7 inches.	AGGREGATE BASE COURSE ; 5.5 inches.	POORLY GRADED GRAVEL WITH SILT AND SAND ; some cobbles, brown, very dense, slightly damp, non-plastic, coarse grained gravel, fine to coarse grained sand.	Bottom of BORING.	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="3">DEPTH, ft.</th> <th rowspan="3">USCS SYMBOL</th> <th rowspan="3">INTERVAL</th> <th colspan="3">SAMPLE BLOWS</th> <th colspan="4">TESTS</th> </tr> <tr> <th rowspan="2">1st 6"</th> <th rowspan="2">2nd 6"</th> <th rowspan="2">3rd 6"</th> <th rowspan="2">WATER CONTENT, %</th> <th rowspan="2">DRY DENSITY, pcf</th> <th rowspan="2">LIQUID LIMIT</th> <th rowspan="2">PLASTICITY INDEX</th> <th rowspan="2">#200</th> </tr> <tr> </tr> </thead> <tbody> <tr> <td>1</td> <td>GP-LM</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>GS-BS</td> <td></td> <td>34</td> <td>47</td> <td></td> <td>2</td> <td>128</td> <td>0</td> <td>0</td> <td>8</td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> </div> <div style="width: 50%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> </tr> <tr> <td></td> </tr> <tr> <td></td> </tr> <tr> <td></td> </tr> <tr> <td></td> </tr> </tbody> </table> </div> </div>		DEPTH, ft.	USCS SYMBOL	INTERVAL	SAMPLE BLOWS			TESTS				1st 6"	2nd 6"	3rd 6"	WATER CONTENT, %	DRY DENSITY, pcf	LIQUID LIMIT	PLASTICITY INDEX	#200	1	GP-LM											2	GS-BS		34	47		2	128	0	0	8	3											4											5											DESCRIPTION					
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The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

WATER LEVEL OBSERVATIONS, ft WL <input checked="" type="checkbox"/> None WD <input type="checkbox"/> WL <input checked="" type="checkbox"/> <input type="checkbox"/> WL <input type="checkbox"/> Backfilled Upon Completion			BORING STARTED 11-5-10 BORING COMPLETED 11-5-10 RIG CME-88 FOREMAN MOW APPROVED SDN -JOB # 6510527
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CLIENT		LOG OF BORING NO. B-6		Page 1 of 1										
SITE		PROJECT												
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <p>The CK Group, Inc. 15th Ave, 7th Ave, Central Ave & 7th St Phoenix, Arizona</p> </div> <div style="width: 55%;"> <p>Broadway Road - Intersection Improvements</p> </div> </div>														
<p>BORING Location: STA 494+76, 50' R/L S of Broadway Rd, E of Central Ave, offset from sidewalk.</p>														
GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	USCS SYMBOL	SAMPLE			TESTS							
				INTERVAL	BLOWS			WATER CONTENT, %	DRY DENSITY, pcf	LIQUID LIMIT	PLASTICITY INDEX	4200		
					TYPE	1st 6"	2nd 6"						3rd 6"	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<p>FILL - SANDY LEAN CLAY: some gravel, stiff, damp to moist, medium plasticity, fine to medium grained sand, fine to coarse gravel.</p>		1	CL	2/10 SS	6	9	10	102	32	14	4200			
<p>SANDY LEAN CLAY: stiff, damp, medium plasticity.</p>		2												
<p>POORLY GRADED GRAVEL WITH SAND: some cobbles, brown, dry, non-plastic, fine to coarse grained sand, coarse grained gravel, up to 4 inch diameter cobbles.</p>		3												
<p>Bottom of BORING.</p>		5												

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

WATER LEVEL OBSERVATIONS, ft

W/L ☒ None WD ☐

W/L ☐ Backfilled Upon Completion

Terracon

BORING STARTED 11-5-10

BORING COMPLETED 11-5-10

RIG CME-85 FOREMAN MCW

APPROVED SDN JOB # 6510527

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CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

DR: JV/CC	DES: AI/CC	CK: AI/JS	DWG SERIES No.
DATE: 11/16	DATE: 11/16	DATE: 11/16	


SCALE: NOT TO SCALE

BL-1.03

ST85100371(002)

\\cckg-svr\projects\2016 JOBS\CK ARIZONA\Trans Engr. (TE)\AZ2016-08_COP ARS Repackage\PROJECT DELIVERABLES\Final Plans, Reports and Transmittals\Prior Submittal\dwg\33-ST85100330-BORING LOGS (3 OF 4).dwg

F.H.W.A. REGION	STATE	PROJECT NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85100371(002)	34	91	

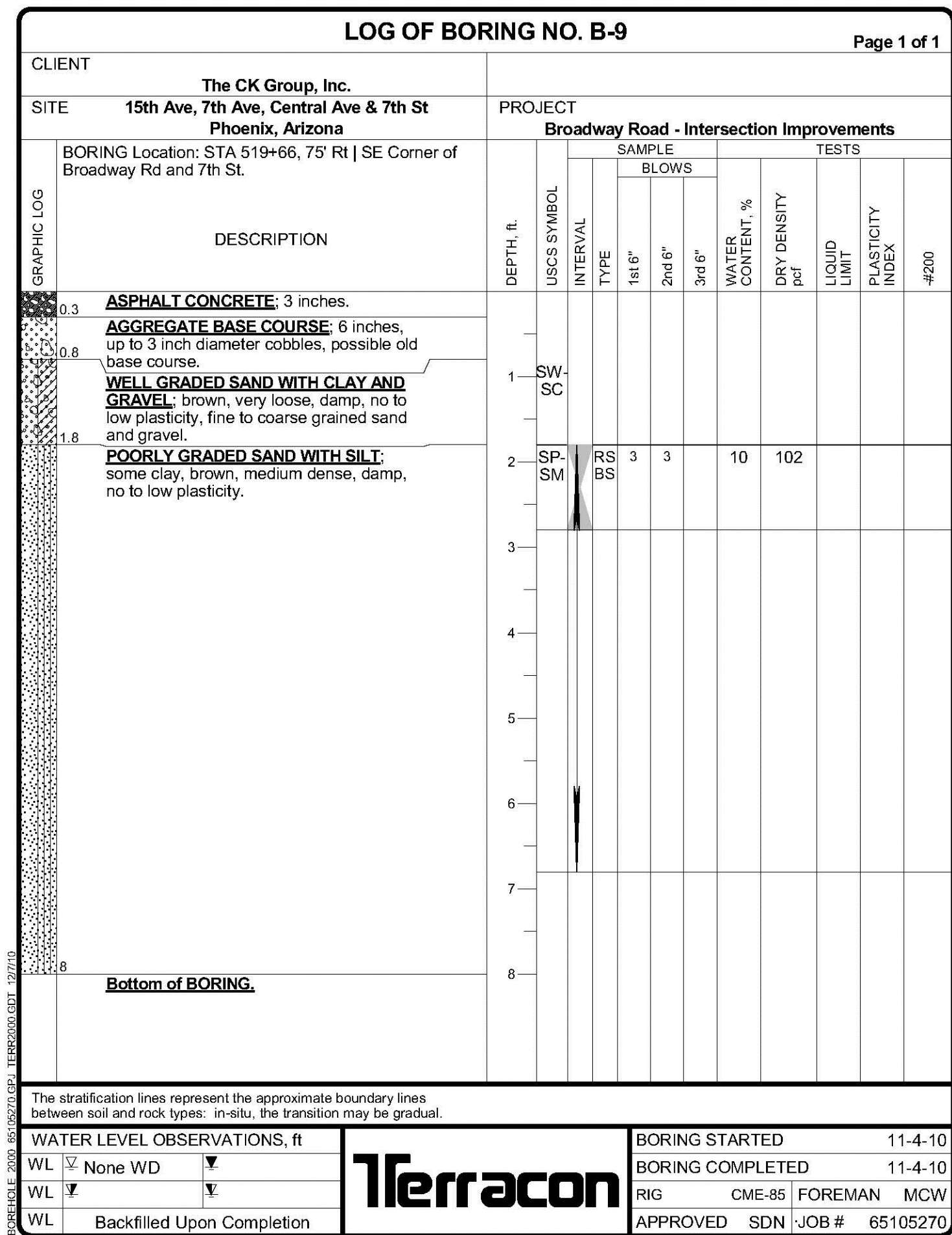
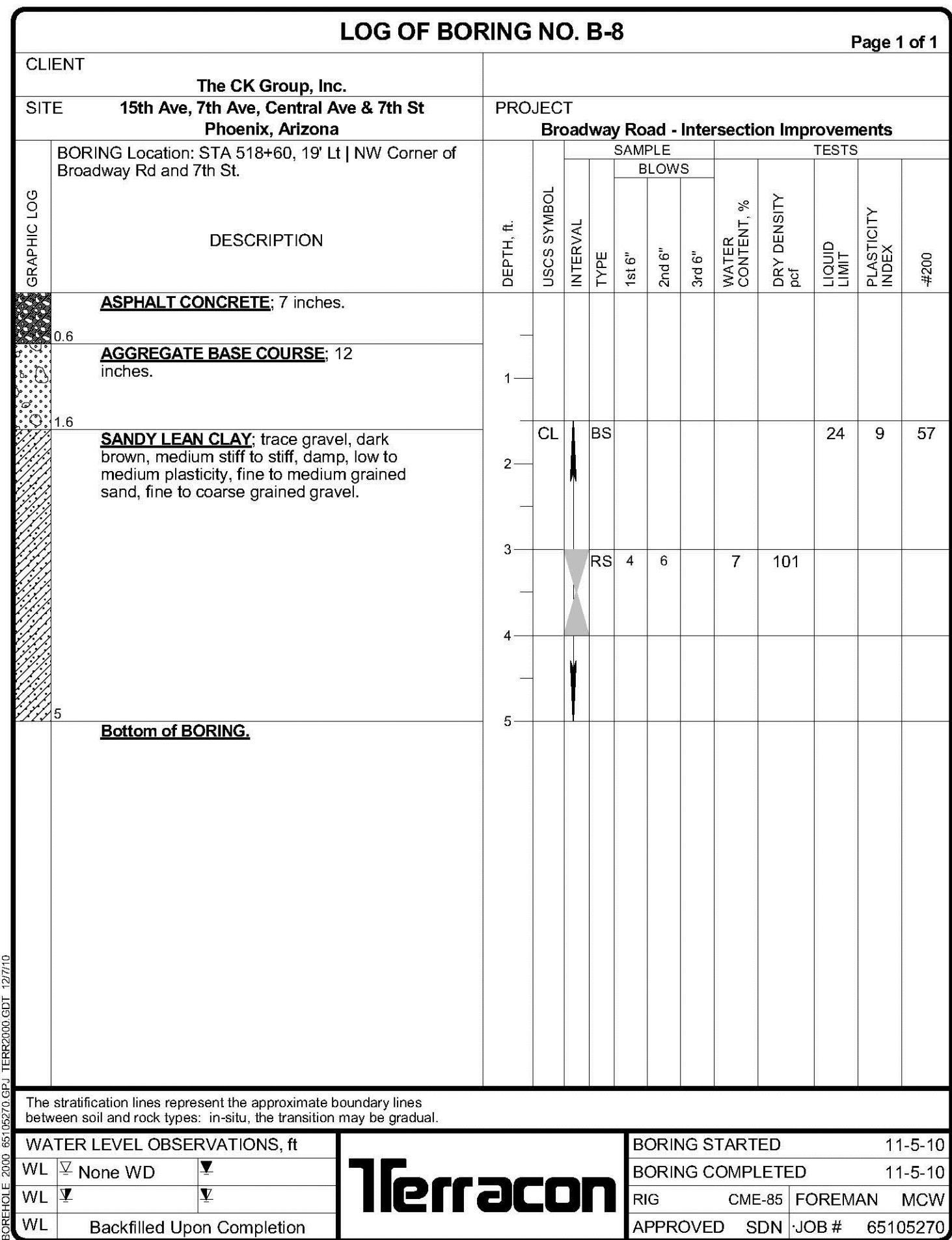
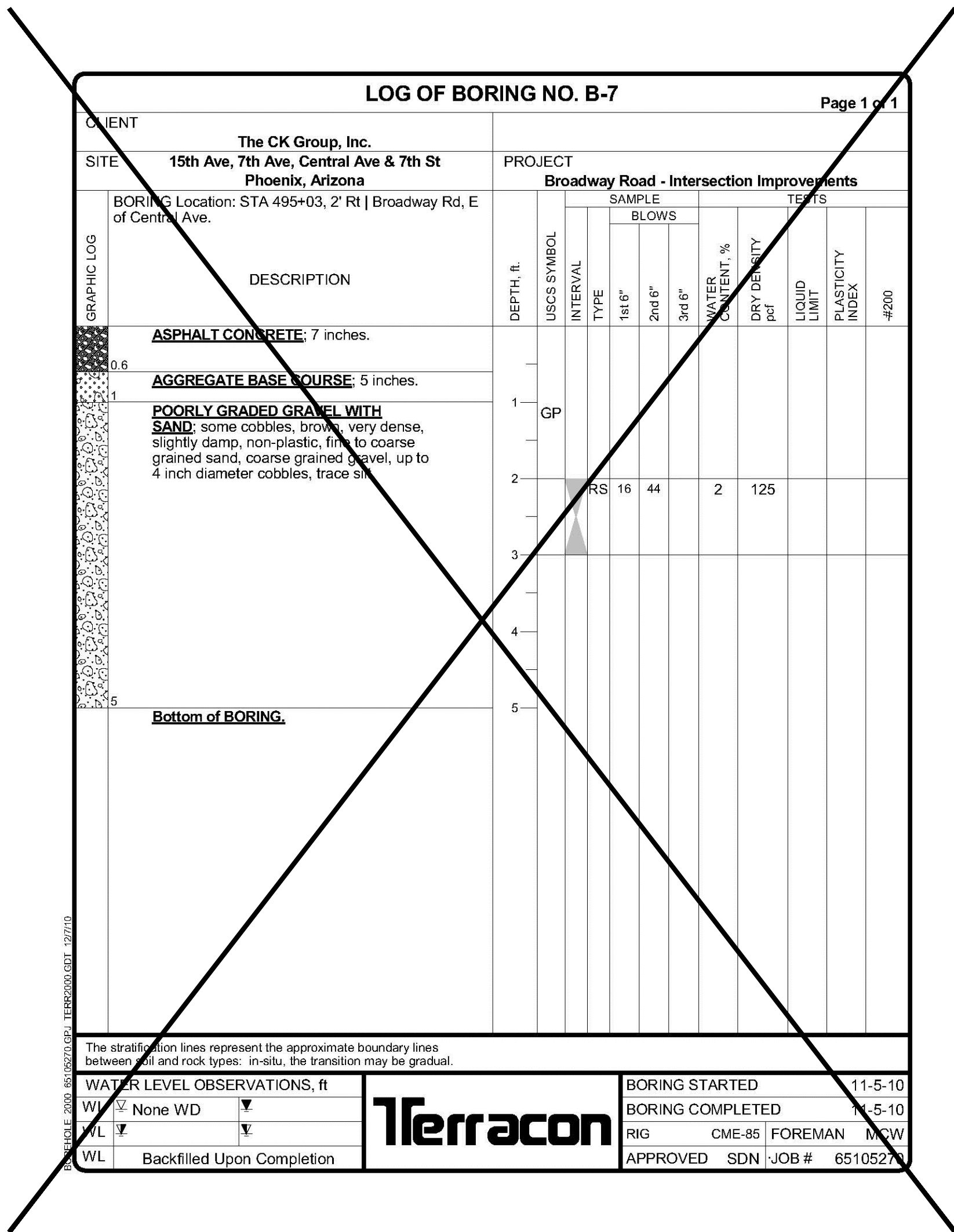


the CK Group, Inc.
 CIVIL, TRANSPORTATION ENGINEERS
 16448 N. 40th Street Suite A
 Phoenix, Ariz. 85032

REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHK BY DATE

REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHK BY DATE

REVISION BY CITY OF PHOENIX		
NO.	DESCRIPTION	REV BY CKD BY DATE



Call at least two full working days
before you begin excavation.

ARIZONA 811
Arizona Blue Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

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CITY OF PHOENIX, ARIZONA
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AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

DR: JV/CC	DES: AI/CC	CK: AI/JS	DWG SERIES No.
DATE: 11/16	DATE: 11/16	DATE: 11/16	
SCALE: NOT TO SCALE			BL-1.04

[illegible]

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
PHOENIX STREETS – MARICOPA CO.

CITY OF PHOENIX STREET LIGHTING
AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

James F. Schumann

23785
JAMES F.
SCHUMANN

Not Signed 1/11/18
ARIZONA, U.S.A.
Expires 06/30/2018

SALT RIVER PROJECT (SRP) NOTES

1.

CONTRACTOR SHALL CALL SRP FOR A PRE-CONSTRUCTION MEETING PRIOR TO ANY EXCAVATION AT (602) 236-6300.

2.

CONTRACTOR WILL SUPPLY ALL TRENCHING AND CONDUIT IF REQUESTED BY THE COP PROJECT MANAGER.

3.

CONTRACTOR WILL STAKE STREET LIGHTS PER CITY OF PHOENIX APPROVED STREET LIGHT CONSTRUCTION DRAWINGS.

4.

GRADE STAKE WILL BE SET WITHIN TWO (2) FEET OF J-BOX LOCATION.

5.

CONTRACTOR WILL COORDINATE WITH SRP AND CITY OF PHOENIX FOR DE-ENERGIZING OF STREETLIGHT CONDUCTOR.

6.

GROUND ROD WILL BE PROVIDED AND INSTALLED BY CONTRACTOR IN SRP J-BOX AT EACH STREETLIGHT LOCATION.

7.

#6 BARE COPPER GROUND WIRE TO BE ATTACHED FROM GROUNDING LUG ON STREETLIGHT POLE TO GROUND ROD IN J-BOX.

8.

IF THE CONTRACTOR INSTALLS THE POLE, THE BARE #6 COPPER GROUND WIRE SHALL BE CONNECTED FROM THE GROUND ROD IN THE SRP J-BOX TO THE GROUND CONNECTION IN THE POLE HAND-HOLE.

9.

ALL TRENCHING AND CONDUIT TO BE INSPECTED BY SRP. DO NOT BACKFILL UNTIL INSPECTED.

10.

SRP CONSTRUCTION PRINT MUST BE USED AS A TRENCHING REFERENCE. TRENCHING VARIATIONS MUST HAVE WRITTEN SRP DESIGNER APPROVAL. FOLLOW DETAILS FOR CONSTRUCTION. VARIATIONS IN TRENCH ROUTE MAY RESULT IN A REDESIGN FEE PAYABLE BY CONTRACTOR.

11.

TRENCHES SHOULD BE STRAIGHT, LEVEL AND FREE OF DEBRIS. ALL TRENCH DEPTHS MEASURED FROM FINAL GRADE TOP OF CONDUIT (PER SRP DESIGN) WITHIN ALL EASEMENTS AND RIGHT OF WAY. MAINTAIN MINIMUM 6" CLEARANCE FROM WATER LINES, 19" FROM ALL GAS LINES AND 12" CLEARANCE FORM OTHER UTILITIES.

12.

USE DB120 PVC FOR ALL STRAIGHT CONDUIT, 36" RADIUS SCHEDULE 40 PVC SWEEPS FOR ALL ELBOWS. NO REDUCERS ARE ALLOWED IN CONDUIT SYSTEM, NO COUPLINGS OR BELL ENDS ARE ALLOWED AT EQUIPMENT LOCATIONS. ALL CONDUITS WITHIN ROAD RIGHT OF WAY OR P.U.E. MUST BE RED.

13.

RETAINING WALLS ARE REQUIRED ADJACENT TO EQUIPMENT WHERE THE GRADE SLOPE IS GREATER THAN 30° IN 12'.

14.

ALL CONDUIT STUB OUTS ARE TO BE CAPPED AND MARKED WITH ELECTRONIC MARKER AND 7" RED FLAG MARKING RIBBON.

15.

HARD CAPS ARE TO BE USED FOR ALL STUB OUTS BELOW GRADE.

16.

A MANDREL INSPECTION IS REQUIRED WITH SRP INSPECTOR WITHIN 3 DAYS OF FINAL INSPECTION. CONTRACTOR MUST PROVIDE 2 REPRESENTATIVES, MINIMUM 125-CFM TRAILER MOUNTED COMPRESSOR AND ALL NECESSARY ATTACHMENTS.

17.

THE CONTRACTOR IS RESPONSIBLE FOR THE INTEGRITY OF ALL CONDUITS UNTIL SRP HAS INSTALLED CONDUCTORS.

18.

BACKFILL REQUIREMENTS FOR A TRENCH IN OR UNDER FUTURE PAVEMENT TO BE 1 PART SLURRY MIX IN ROAD RIGHT OF WAY AND IN DIRT TO BE 1/2 SLURRY MIX AND 1/2 SLURRY MIX MAXIMUM UNDER ALL SRP EQUIPMENT.

19.

SEE DUCT BANK SPECIFICATIONS FOR ALL DUCT BANK ENCASEMENT REQUIREMENTS.

LED STREETLIGHT NOTES

1

INSTALL ONE 113W LED (10,000 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38'-6" POLE WITH A 6' MAST ARM PER APS DETAIL AND SPECIFICATIONS. FOUNDATION AND GROUNDING PER APS STANDARDS AND SPECIFICATIONS. POLE SHALL BE CENTERED 1'-0" BEHIND BACK OF SIDEWALK OR 4'-0" BEHIND BACK OF CURB. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL APS PULL BOX ADJACENT POLE WITH 1" FLEX CONDUIT TO POLE PER APS SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.

2

REMOVE EXISTING HPS LUMINAIRE AND INSTALL ONE 113W LED (10,000 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL PER APS DETAIL AND SPECIFICATIONS. GROUNDING PER APS STANDARDS AND SPECIFICATIONS. INSTALL(2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. 1" FLEX CONDUIT TO POLE PER APS SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.

1

REMOVE AND PROPERLY DISPOSE OF CITY STREETLIGHT MASTARM FROM SRP POLE

2

REMOVE AND PROPERLY DISPOSE OF CITY STREETLIGHT POLE AND MASTARM

REMOVAL RELOCATION NOTE

ITEM NUMBER	TYPE OF STREET	QUANTITY	MOUNTING HEIGHT	POLE LENGTH	MAST ARM	APPROVED POLE & ARM MANUFACTURERS	LUMEN	TYPE	WATTAGE	VOLTAGE	LUMINAIRE STYLE	APPROVED LUMINAIRE MANUFACTURERS
1	ARTERIAL	4	34'-3"	38'-6"	3'x8'	CEM-TEC MS-1944 VALMONT CB09159 SOUTHWEST FABRICATION, LLC SWF-33701443	10,000	LED	113 W	120/208/240/277 AS POWER CO. REQUIRES	COBRAHEAD	GENERAL ELECTRIC ERS20D3E1740A GRAY R
2	ARTERIAL	4	MOUNT ON EXST.	EXST	EXST	USE EXISTING	10,000	LED	113 W	120/208/240/277 AS POWER CO. REQUIRES	COBRAHEAD	GENERAL ELECTRIC ERS20D3E1740A GRAY R

ALL CATALOG NUMBERS SHALL BE CONFIRMED WITH POWER COMPANY PRIOR TO ORDERING

STREET LIGHTING GENERAL NOTES

THE FOLLOWING INFORMATION IS PROVIDED TO EMPHASIZE CRITICAL WORK AND IS INTENDED TO SUPPLEMENT THE SPECIFICATIONS.

1.

THE CONTRACTOR SHALL COMPLY WITH STATE AND CITY STATUTES AND ORDINANCES.

2.

PRIOR TO SUBMITTAL, THE STREET LIGHT DESIGNER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THE CONTRACT.

3.

THE STREET LIGHT DESIGNER SHOULD VERIFY DIMENSIONS AT THE SITE AND IMMEDIATELY REPORT DIFFERENCES TO THE DEVELOPER'S CONSTRUCTION MANAGER AND NOT PROCEED WITH WORK UNTIL THE CONSTRUCTION MANAGER RENDERS A DECISION.

4.

THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL LICENSING REQUIREMENTS SET FORTH BY THE STATE REGISTRAR OF CONTRACTORS OFFICE TO PERFORM WORK RELATING TO STREET LIGHT INSTALLATION IN CITY OF PHOENIX RIGHT-OF-WAY.

5.

ONE DRY UTILITY PERMIT FOR EACH CITY OF PHOENIX STREET LIGHT PROJECT SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

6.

LIGHT POLES SHALL BE INSTALLED PLUMB, BE ADJUSTED TO PROVIDE PROPER ALIGNMENT TO THE ROADWAY BEING LIGHTED AND BE PROPERLY GROUNDED WHEN THE INSTALLATION IS COMPLETED.

7.

STREET LIGHTS ARE INSPECTED BY THE CITY OF PHOENIX STREETLIGHTING INSPECTOR. WHEN ACCEPTED AND ENERGIZED THE CONTRACTOR WILL INSTALL POLE NUMBERS PRIOR TO INSPECTION.

8.

LUMINAIRES SHALL BE INSTALLED LEVEL AND INCLUDE A LAMP AND PHOTOCELL. THE LUMINAIRES SHALL BE FREE OF DUST, DIRT OR ANYTHING THAT WOULD IMPAIR THE OUTPUT OF THE LIGHT.

9.

LUMINAIRES FURNISHED WITH MULTI-TAP DRIVERS SHALL BE REWIRED OR RECONNECTED TO MATCH THE VOLTAGE SUPPLIED BY THE ELECTRIC UTILITY COMPANY.

10.

POLE SHALL BE SET PLUMB IN TWO DIRECTIONS, NINETY (90) DEGREES APART.

11.

SURPLUS EXCAVATION SHALL BE DISPOSED OF BY THE CONTRACTOR.

12.

WIRING SHALL BE INSTALLED PER SERVING UTILITY COMPANY STANDARDS. CONDUIT SHALL BE INSTALLED AT THE DEPTH SPECIFIED ON THEIR PLANS.

13.

CONDUIT MUST BE LISTED AND LABELED AND SUITABLE FOR UNDERGROUND USE.

14.

CONNECTIONS SHALL BE PER SERVING UTILITY COMPANY STANDARDS. EACH POLE SHALL HAVE A 8" X 5/8" COPPER CLAD GROUND ROD DRIVEN BENEATH PULL BOX. A #6 BARE COPPER LEAD FROM THE GROUND ROD IN PULL BOX TO LANDING LUG IN STREET LIGHT POLE HAND HOLE IS REQUIRED.

15.

EXCAVATION FOR PULL BOXES AND MATERIAL SPECIFICATIONS SHALL BE PER SERVING UTILITY COMPANY STANDARDS.

16.

TRENCH SHALL BE INSTALLED PER SERVING UTILITY COMPANY STANDARDS. THE USE OF A COMMON ELECTRIC UTILITY COMPANY TRENCH IS PERMITTED.

17.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANY FOR COORDINATION OF THE TRENCHING AND THE INSTALLATION OF CONDUIT.

18.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING AND DRIVEWAYS THAT ARE DISTURBED DURING STREET LIGHT CONSTRUCTION TO THEIR ORIGINAL CONDITION IN CONFORMANCE WITH MAG SPECIFICATION SECTION 107.9.

19.

IF A FIXTURE SHOULD FAIL, IT SHALL BE IMMEDIATELY REPLACED. THE DEVELOPER SHALL BE RESPONSIBLE FOR FURNISHING ALL PERSONNEL AND EQUIPMENT NECESSARY TO SUCCESSFULLY REPAIR THE FIXTURE.

20.

THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE ENGINEERING MANAGER, AGAINST IMPERFECT WORKMANSHIP, FAILURE, MALFUNCTION OF MATERIALS AND/OR EQUIPMENT DUE TO FAULTY OR IMPERFECT WORKMANSHIP.

21.

THIS GUARANTEE IS TO BE IN WRITING TO THE CITY AT THE TIME OF ISSUING FINAL ACCEPTANCE. MATERIALS AND WORKMANSHIP FOUND TO BE DEFECTIVE WITHIN THE WARRANTY PERIOD SHALL BE REPLACED WITHOUT COST TO THE CITY.

LEGEND

COBRAHEAD LUMINAIRE STREET LIGHT POLE (SEE NOTE FOR)

COBRAHEAD LED LUMINAIRE STREET LIGHT (SEE NOTE FOR)

EXISTING STREET LIGHT MOUNTED ON POWER POLE

EXISTING STREET LIGHT POLE

SHEET INDEX

COVER SHEET

SL-1.01

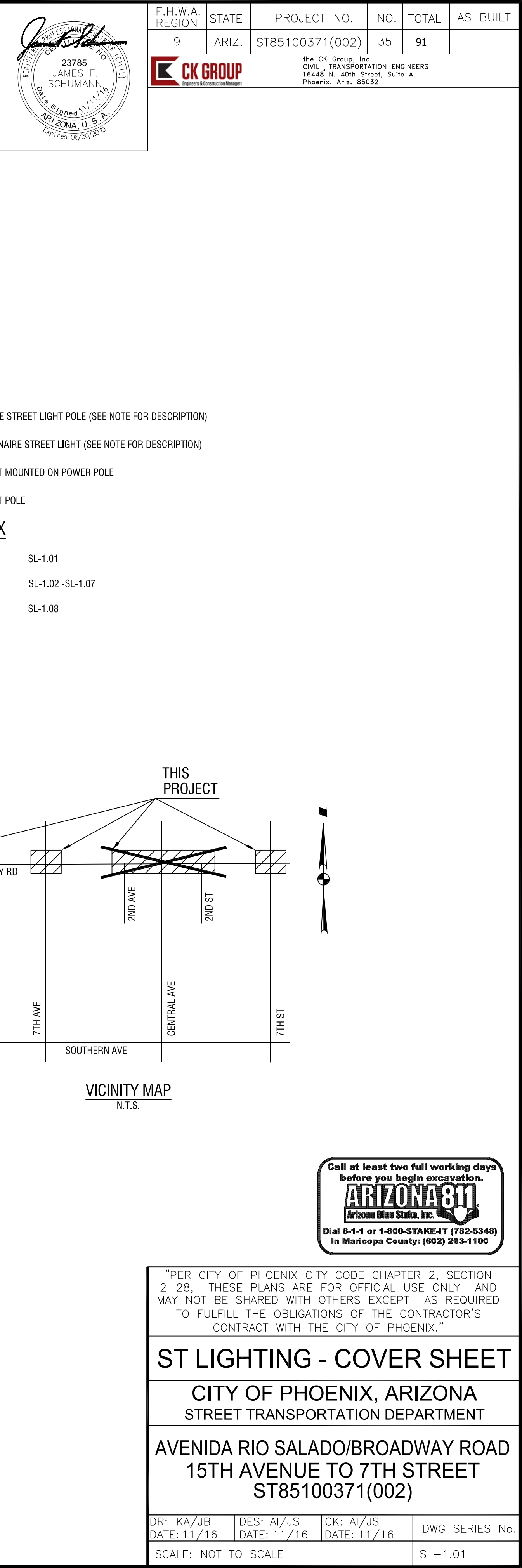
SITE PLAN

SL-1.02 -SL-1.07

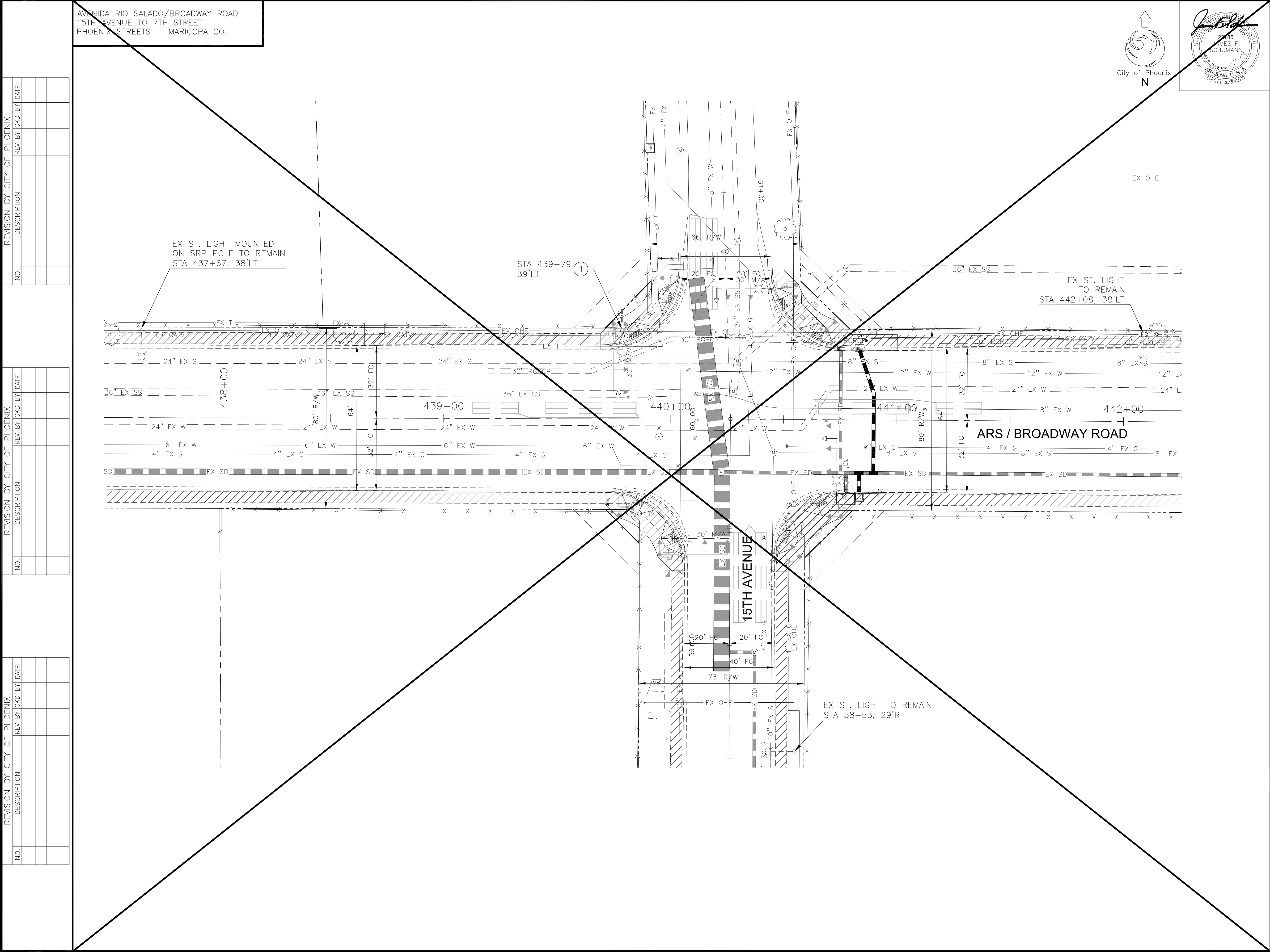
DETAIL SHEET

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VICINITY MAP
N.T.S.



ST85100371(002)



F.H.W.A. REGION	STATE	PROJECT NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85100371(002)	36	91	

CK GROUP
the CK Group, Inc.
CIVIL TRANSPORTATION ENGINEERS
15445 N. 40th Street, Suite A
Phoenix, Ariz. 85032

REMOVAL/RELOCATION NOTES

NO	DESCRIPTION	UNIT	QTY
1	REMOVE AND SALVAGE CITY STREETLIGHT MASTARM FROM SRP POLE	EA	1

LEGEND

- COBRAHEAD LUMINAIRE STREET LIGHT POLE (SEE NOTE FOR DESCRIPTION)
- EXISTING STREET LIGHT MOUNTED ON POWER POLE
- EXISTING STREET LIGHT POLE

ST LIGHTING PLAN 15TH AVE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

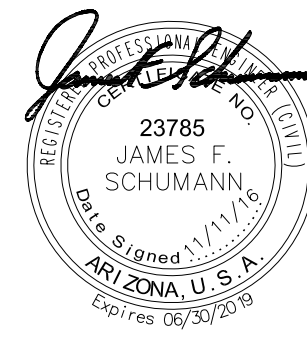
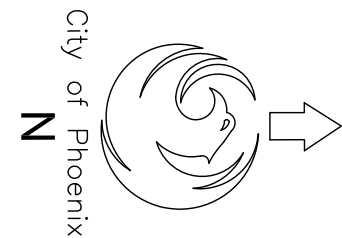
DR: KA/JB DES: AI/JS CK: AI/JS DWG SERIES No.
DATE: 11/16 DATE: 11/16 DATE: 11/16
SCALE: 1"=20' SL-1.02

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REVISION BY CITY OF PHOENIX		
NO.	DESCRIPTION	REV BY CKD BY DATE

[illegible]

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
PHOENIX STREETS - MARICOPA CO.











F.H.W.A. REGION	STATE	PROJECT NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85100371(002)	37	91	



the CK Group, Inc.
CIVIL TRANSPORTATION ENGINEERS
16448 N. 40th Street, Suite A
Phoenix, Ariz. 85032

CONSTRUCTION NOTES			
NO	DESCRIPTION	UNIT	QTY
②	REMOVE AND PROPERLY DISPOSE OF CITY STREETLIGHT POLE AND MAST ARM	EA	2
①	INSTALL ONE 113W LED (10,000 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38'-6" POLE WITH A 6' MAST ARM PER APS DETAIL AND SPECIFICATIONS. FOUNDATION AND GROUNDING PER APS STANDARDS AND SPECIFICATIONS. POLE SHALL BE CENTERED 1'-0" BEHIND BACK OF SIDEWALK OR 4'-0" BEHIND BACK OF CURB. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL APS PULL BOX ADJACENT POLE WITH 1" FLEX CONDUIT TO POLE PER APS SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.	EA	2
②	REMOVE EXISTING HPS LUMINAIRE AND INSTALL ONE 113W LED (10,000 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL PER APS DETAIL AND SPECIFICATIONS. GROUNDING PER APS STANDARDS AND SPECIFICATIONS. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. 1" FLEX CONDUIT TO POLE PER APS SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.	EA	2
③	TRENCHING FOR STREET LIGHT CIRCUIT (ONE CONDUIT)	LF	418

LEGEND

		<p>COBRAHEAD LUMINAIRE STREET LIGHT POLE (SEE NOTE FOR DESCRIPTION)</p>
		<p>COBRAHEAD LED LUMINAIRE STREET LIGHT (SEE NOTE FOR DESCRIPTION)</p>
		<p>EXISTING STREET LIGHT MOUNTED ON POWER POLE</p>
		<p>EXISTING STREET LIGHT POLE</p>



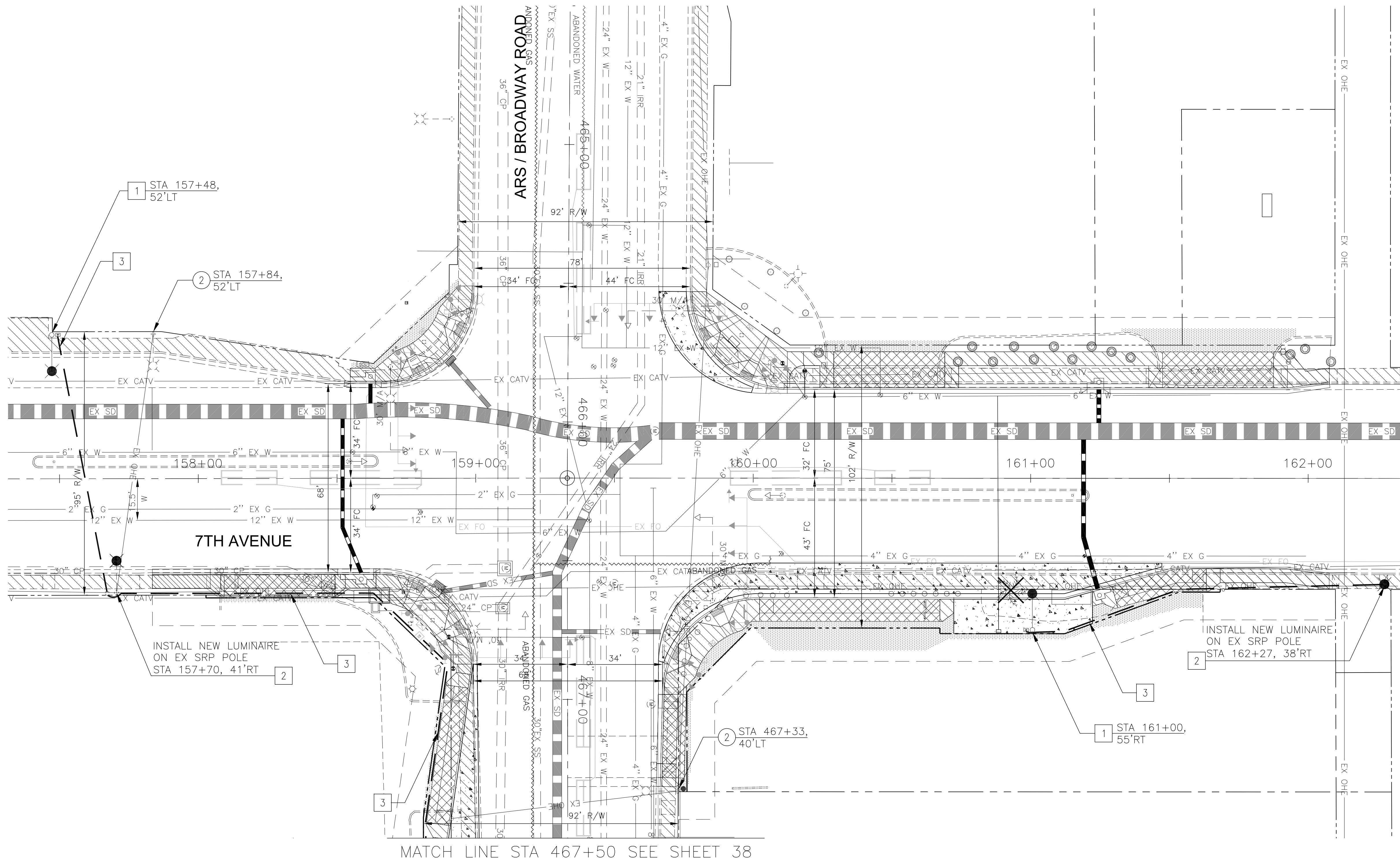
"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

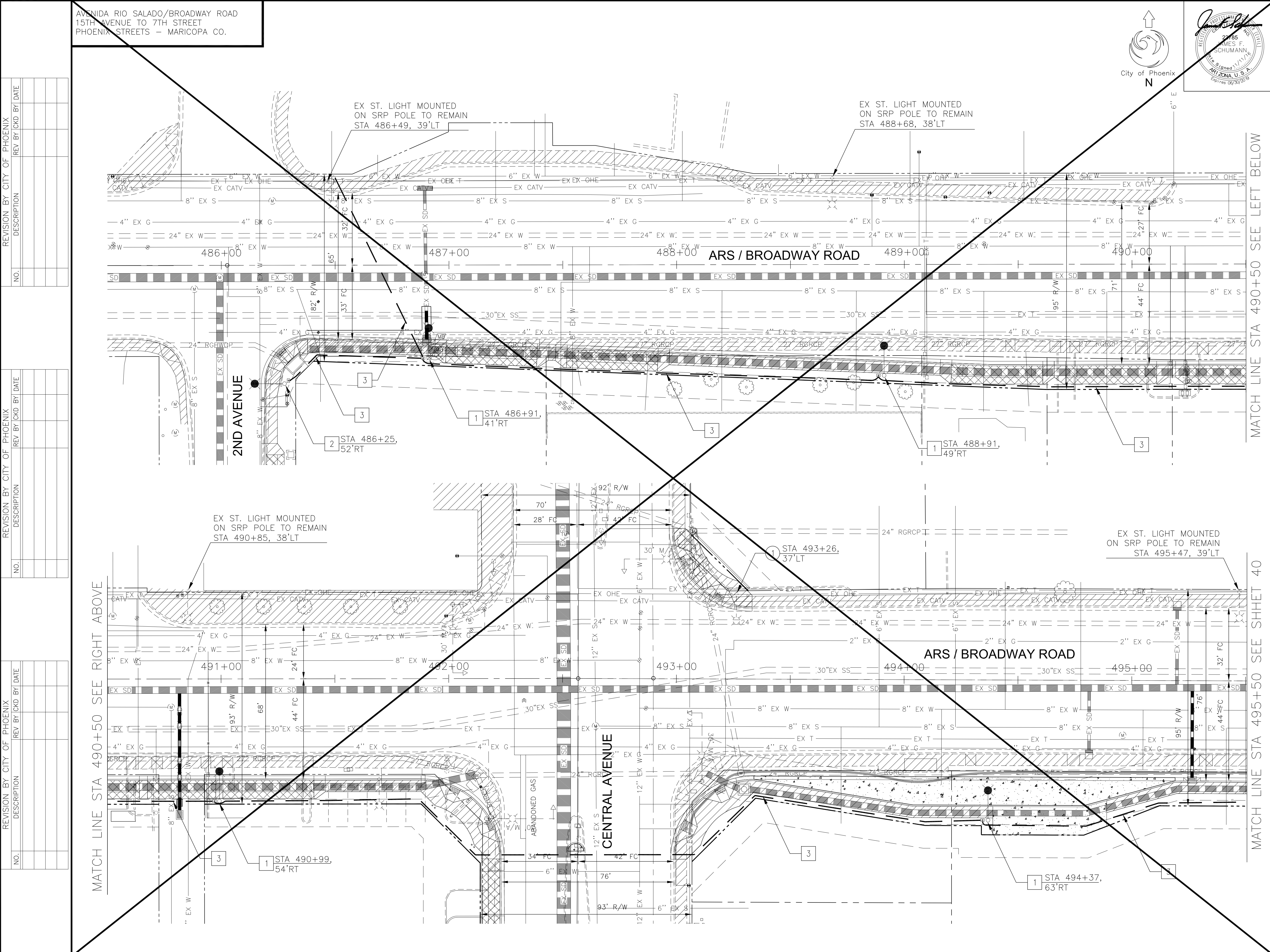
ST. LIGHTING PLAN 7TH AVE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

AVENIDA RIO SALADO/BROADWAY ROAD
15TH AVENUE TO 7TH STREET
ST85100371(002)

DR: KA/JB	DES: AI/JS	CK: AI/JS	DWG SERIES No.
DATE: 11/16	DATE: 11/16	DATE: 11/16	
SCALE: 1"=20'			SL-1.03





City of Phoenix

N

SEAL

2025

JAMES F. SCHUMANN

Professional Engineer

Arizona, U.S.A.

Expires 06/30/2028

F.H.W.A. REGION

STATE

PROJECT NO.

NO.

TOTAL

AS BUILT

9

ARIZ.

ST85100371(002)

39

91

CK GROUP

the CK Group, Inc.

CIVIL TRANSPORTATION ENGINEERS

15445 N. 40th Street, Suite A

Phoenix, Ariz. 85032

REMOVAL/RELOCATION NOTES

NO

DESCRIPTION

UNIT

QTY

1

REMOVE AND SALVAGE CITY STREETLIGHT MASTARM FROM SRP POLE

EA

1

CONSTRUCTION NOTES

NO

DESCRIPTION

UNIT

QTY

1

INSTALL ONE 130W LED (9,900 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38'-6" POLE WITH A 3'x8' MAST ARM PER APS DETAIL 8040 AND SPECIFICATIONS. FOUNDATION AND GROUNDING PER APS STANDARDS AND SPECIFICATIONS. POLE SHALL BE CENTERED 1'-0" BEHIND BACK OF SIDEWALK. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL APS PROVIDED PULL BOX ADJACENT POLE WITH 1" FLEX CONDUIT TO POLE PER APS SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.

EA

4

2

INSTALL ONE 67W LED (5,300 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 30'-6" POLE WITH A 3'x8' MAST ARM PER APS DETAIL 8040 AND SPECIFICATIONS. FOUNDATION AND GROUNDING PER APS STANDARDS AND SPECIFICATIONS. POLE SHALL BE CENTERED 1'-0" BEHIND BACK OF SIDEWALK. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL APS PROVIDED PULL BOX ADJACENT POLE WITH 1" FLEX CONDUIT TO POLE PER APS SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.

EA

1

3

TRENCHING FOR STREET LIGHT CIRCUIT (ONE CONDUIT)

LF

990

LEGEND

COBRAHEAD LUMINAIRE STREET LIGHT POLE (SEE NOTE FOR DESCRIPTION)

EXISTING STREET LIGHT MOUNTED ON POWER POLE

EXISTING STREET LIGHT POLE

Call at least two full working days before you begin excavation.

ARIZONA 811

Arizona Blue Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5348)

In Maricopa County: (602) 263-1100

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY, AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ST. LIGHTING PLAN CENTRAL

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

AVENIDA RIO SALADO/BROADWAY ROAD

15TH AVENUE TO 7TH STREET

ST85100371(002)

DR: KA/JB

DES: AJ/JS

CK: AJ/JS

DWG SERIES No.

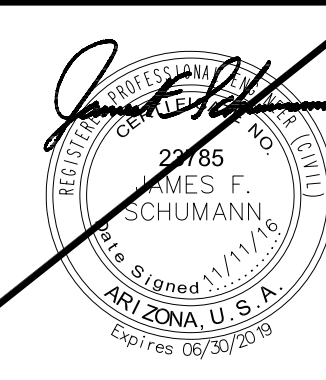
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SCALE: 1"=20'




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CK GROUP
Engineers & Construction Managers

the CK Group, Inc.
CIVIL / TRANSPORTATION ENGINEERS
16448 N. 40th Street, Suite A
Phoenix, Ariz. 85032

LEGEND

	COBRAHEAD LUMINAIRE STREET LIGHT POLE (SEE NOTE FOR DESCRIPTION)
	EXISTING STREET LIGHT MOUNTED ON POWER POLE
	EXISTING STREET LIGHT POLE



ST LIGHTING PLAN CENTRAL

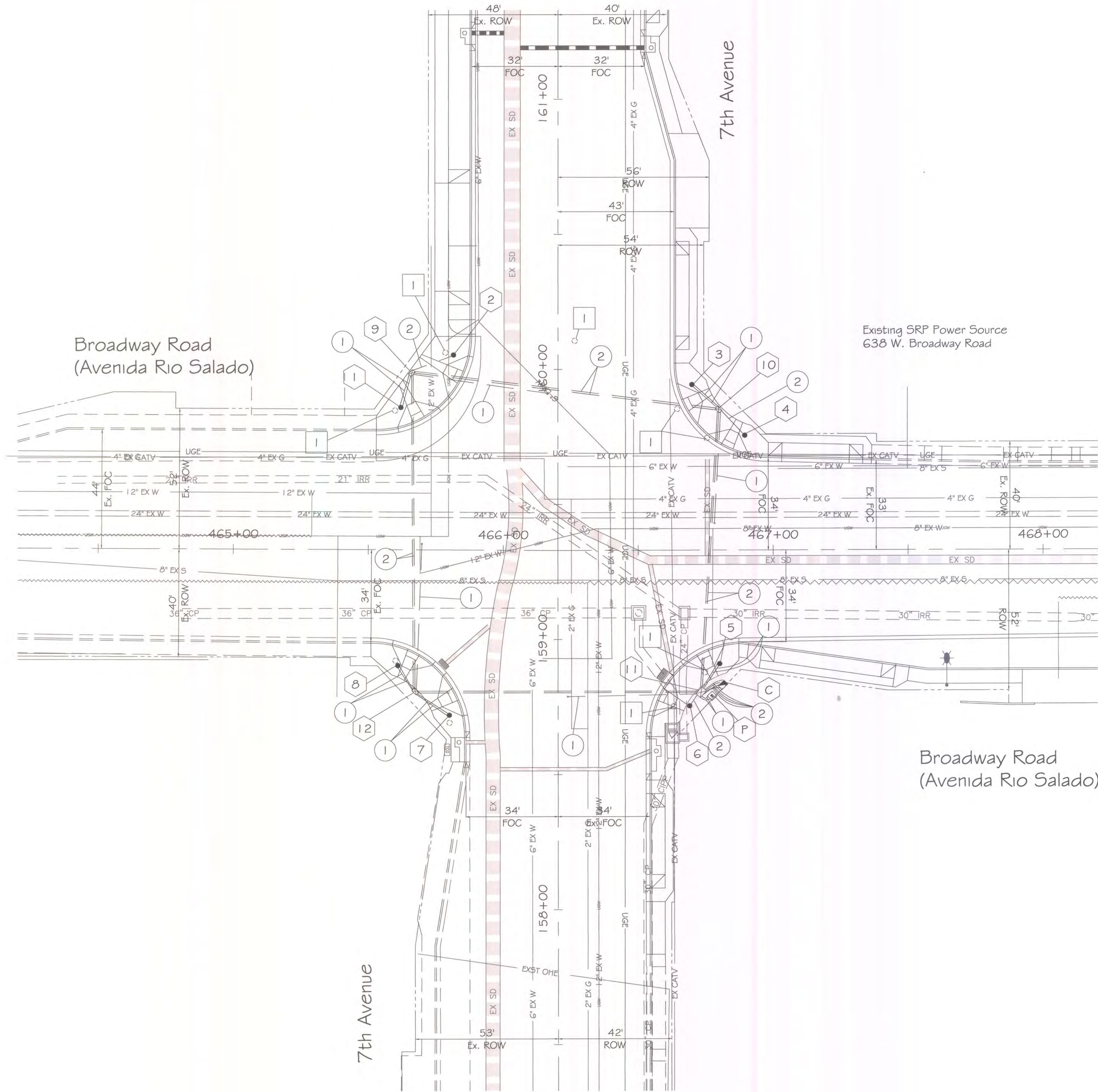
CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

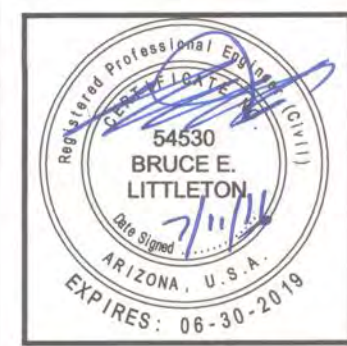
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DATE: 11/16	DATE: 11/16	DATE: 11/16	
SCALE: 1"=20'			SL-1.06

ST85100371(002)

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1. GENERAL NOTES:
- 1.1 The contractor shall notify the City Of Phoenix Traffic Signal Shop (602-262-6733) a minimum of fourteen (14) calendar days prior to beginning any traffic signal work. Submittals of all equipment shall be furnished to the Signal Shop and approved prior to the ordering of any traffic signal equipment. The contractor shall verify that they have the most current set of drawings prior to start and ordering of any equipment.
- 1.2 Foundation elevations must be within 1/4" of finished sidewalk grade.
- 1.3 The Contractor shall layout all ADA ramps, junction boxes and foundation locations for approval by the traffic signal representative prior to any excavation.
- 1.4 A minimum of four (4) feet of clearance is required between all traffic signal poles and the back edge of sidewalk pedestrian ramps.
- 1.5 Traffic Signal Plan approval is valid for 365 calendar days from date scaled. If signal construction has not begun prior to the 365 days elapsing, the signal plans must be re-submitted for approval or an extension granted by the Deputy Director Traffic Services or an authorized representative to ensure that existing traffic signal equipment locations and standard detail references are current.
- 1.6 The contractor shall have a complete set of construction drawings including current City of Phoenix standard details on site at all times during signal construction activities.
2. CONTRACTOR NOTE FOR CITY OF PHOENIX TRAFFIC SIGNAL POLES
- 2.1 The contractor shall provide and install four (4) City of Phoenix Type SR poles, three (3) City of Phoenix Type LM poles, all with anchor cages, nuts bolts, one (1) 20 ft. pole extension, seven (7) standard 5 ft. pole extensions, eight (8) 8 ft. luminaire mast arms, four (4) 40 ft. signal mast arms as per C.O.P. Street Transportation drawing # 10164.
- 2.2 Signal poles, mast arms, mast arm extensions, pole extensions and 8 ft. luminaire mast arms shall be powder coated with a color prescribed by the Traffic Signal Construction Supervisor. Contact the Supervisor at (602) 262-6733 to confirm color.
- 2.3 Separate pull strings shall be installed from end of signal mast arm for every signal device on the signal mast arms and a single pull string on the luminaire mast arms to the hand hole at the base of each traffic signal pole.
3. WORK TO BE PERFORMED BY THE CONTRACTOR
- The contractor shall provide the traffic signal equipment as indicated in note 2.1. The contractor is to provide all underground work including, but not limited to:
- 3.1 - All demolition work, unless otherwise noted
- All trenching
 - All foundations (pole, controller and power service pedestal)
 - All pole anchor cages, nuts and bolts required for pole foundations installed by the contractor in addition to those specified in note 2.1
 - All junction boxes with 18" of sump
 - All conduit runs
 - Provide and install the power service pedestal
 - Provide and install conduit runs from PSP to Utility Company feed
- 3.2 All underground conduits shall be schedule 40 rigid polyvinyl chloride (PVC) installed 24 inches to 30 inches below finished grade with the exception of loop lead-in conduits, which shall be schedule 40 rigid PVC installed in accordance with the latest City of Phoenix Standard Detail Sheet. All conduits shall be installed in straight lines (unless approved by the Signal Shop Inspector) junction box to junction box or junction box to signal equipment foundation with one 90 degree sweep on each end as specified in the plans. All conduits entering junction boxes shall be vertical. Conduits in all foundations shall be located as close as possible to center of the foundation and vertical with foundation below the bottom of the cover. All conduit ends except those in the controller cabinet foundation will be provided with a "bell end" fitting of appropriate size.
- 3.3 Removal of existing streetlights:
- The contractor shall:
- Request de-energization of all streetlights listed for removal,
 - Provide complete removal of streetlight pole, mast arm and luminaire
 - Properly dispose of all streetlight material
4. WORK TO BE PERFORMED BY CITY OF PHOENIX SIGNAL CREWS
- The City of Phoenix traffic signal crews will provide and install all above ground traffic signal equipment including:
- All poles and mast arms except as indicated in note 2.1
 - All signal heads
 - All pedestrian heads
 - All APS push buttons
 - All controllers
 - All LED luminaires
 - All illuminated street signs
 - All signal wiring
 - All loop and non-invasive detectors
 - All pole grouting
 - All cameras
 - All radios



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.		44	91
DR: DES: CK: DATE:				

PROPOSED FOUNDATION SCHEDULE				
NO.	TYPE	FROM M.O.F. BROADWAY RD/ARS	FROM M.O.F. 7th AVENUE	
C	CONT	50 ft. SOUTH	61 ft. EAST	
P	PSP	53 ft. SOUTH	57 ft. EAST	
1	SR	53 ft. NORTH	58 ft. WEST	
2	LM	72 ft. NORTH	39 ft. WEST	
3	SR	61 ft. NORTH	50 ft. EAST	
4	LM	42 ft. NORTH	69 ft. EAST	
5	SR	42 ft. SOUTH	60 ft. EAST	
6	A	58 ft. SOUTH	49 ft. EAST	
7	SR	61 ft. SOUTH	40 ft. WEST	
8	LM	43 ft. SOUTH	59 ft. WEST	

PROPOSED JUNCTION BOX SCHEDULE				
NO.	TYPE	FROM M.O.F. BROADWAY RD/ARS	FROM M.O.F. 7th AVENUE	
9	#5	66 ft. NORTH	54 ft. WEST	
10	#5	52 ft. NORTH	60 ft. EAST	
11	#7	52 ft. SOUTH	54 ft. EAST	
12	#5	52 ft. SOUTH	53 ft. WEST	

INSTALL

- C 8 Phase Controller Foundation
- P Power Service Pedestal Foundation
- 1 thru 8 See Foundation Schedule
- 9 thru 12 See Junction Box Schedule
- 1 2" Schedule 40 PVC with #10 copper pull wire bent over lip of stubout
- 2 2 1/2" Schedule 40 PVC with #10 copper pull wire bent over lip of stubout

REMOVE

- 1 Traffic Signal Foundation - 9
- A - 5
- M - 4



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APPROVED BY:

TRAFFIC SIGNAL ENGINEER

ACTING STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR

TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

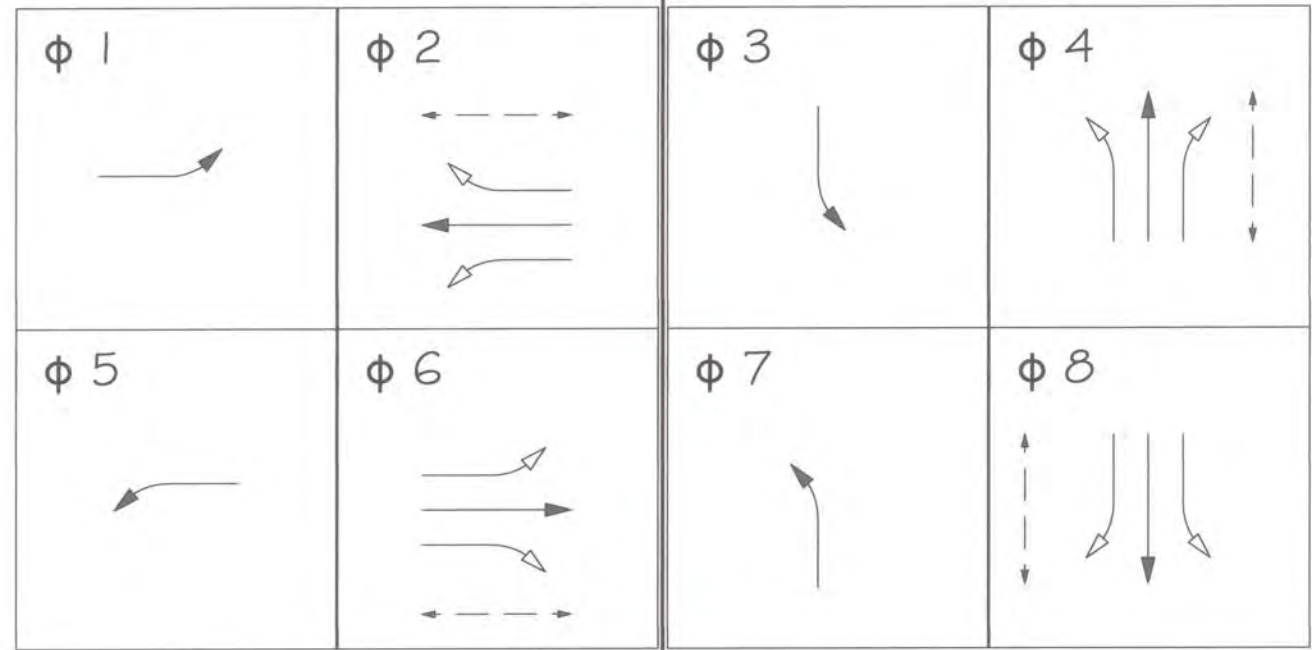
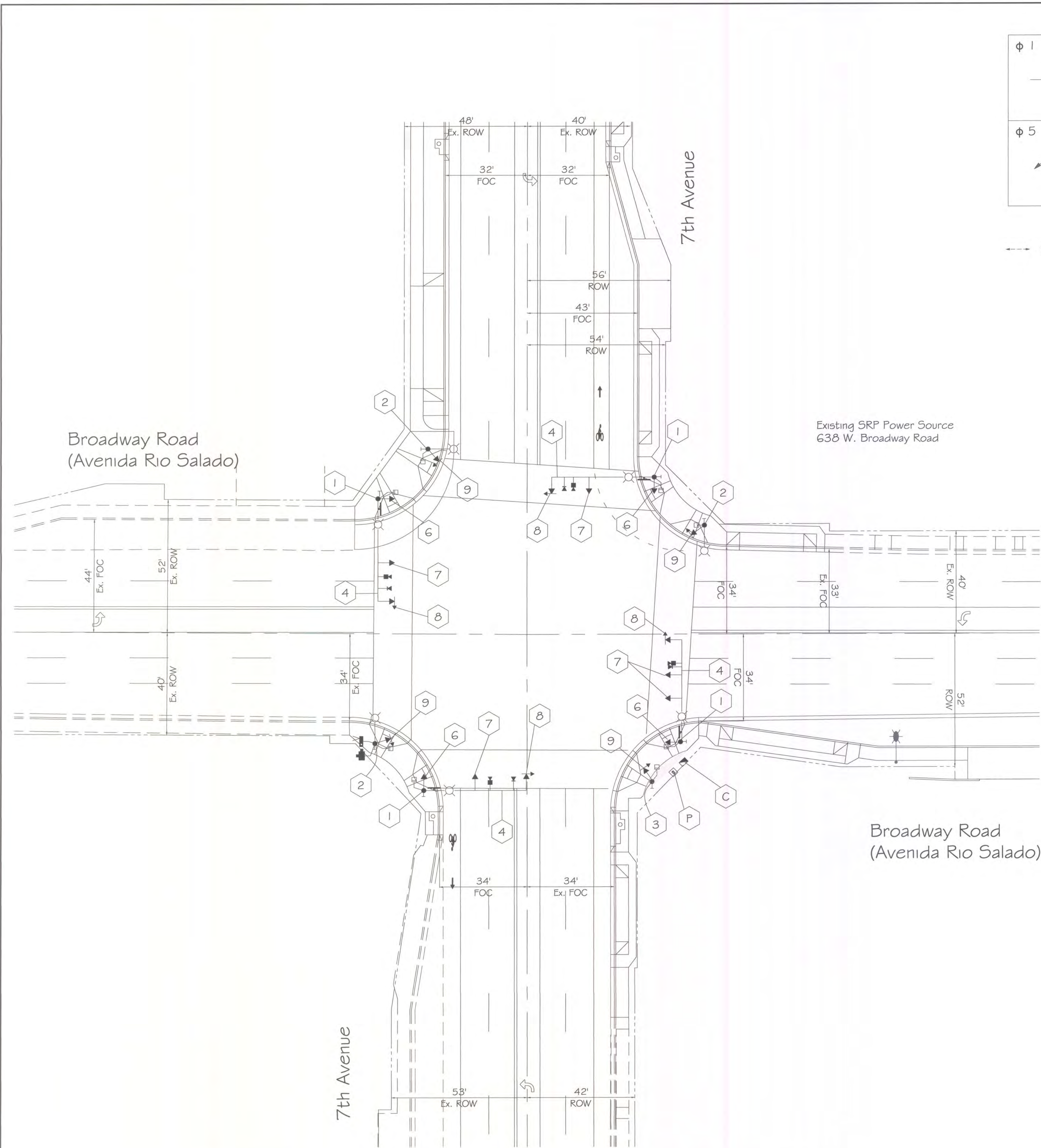
BROADWAY RD/AVENIDA RIO SALADO

AT 7th AVENUE

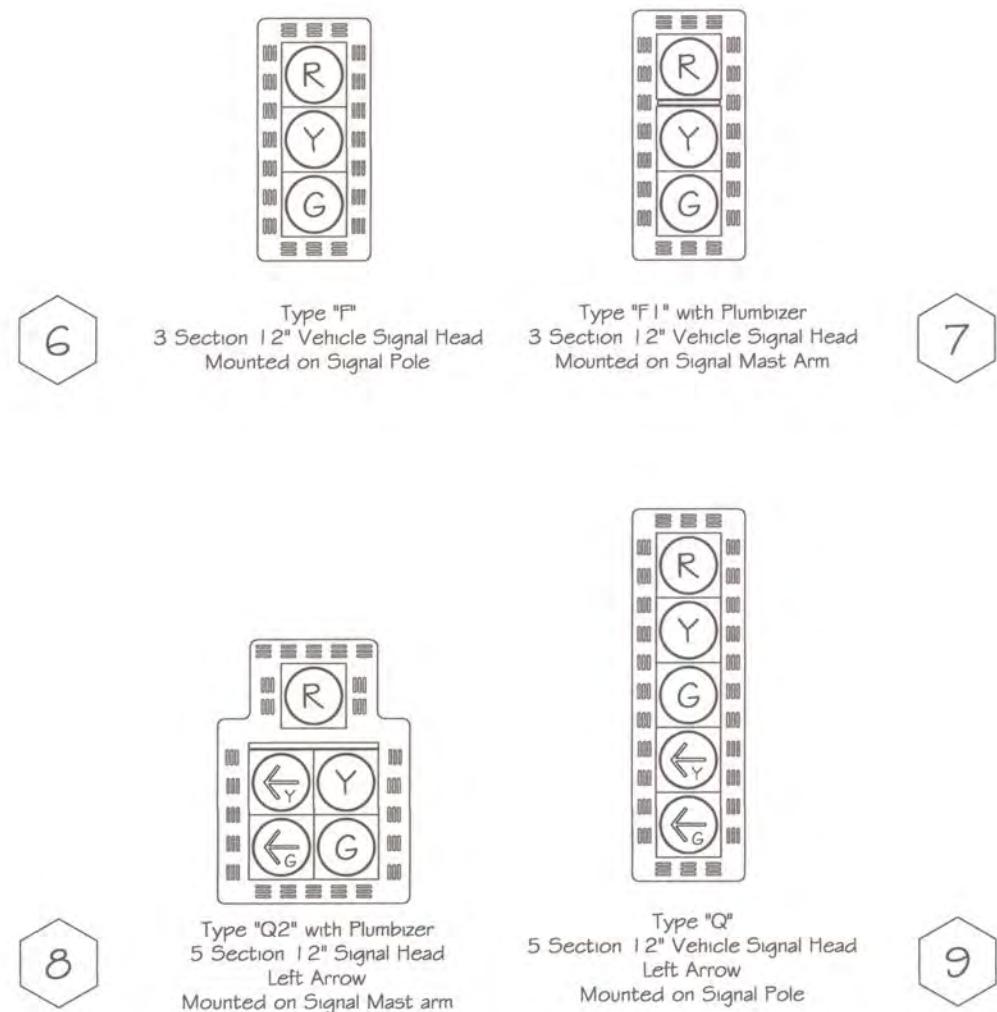
FOUNDATION

PROJECT #:	FILE NO:
DR: hsy	DES:
DATE: JUNE 2016	DATE:
SCALE: 1" = 20'	Q5: 4-26

SHEET NO:	TOTAL SHEETS
1	3



--- Pedestrian Phase ← Protected Phase ← Permitted Phase



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.		45	91
DR: DES: CK: DATE:				

INSTALL

- C 8 Phase Controller Cabinet
- P Power Service Pedestal
- 1 Traffic Signal Pole Type SR - 4 New
- 2 Traffic Signal Pole Type LM - 3 New
- 3 Traffic Signal Pole Type A - 1 New
- 4 40 ft Signal Mast Arm - 4 New
- 6 Type F 12" Signal Head - 4 New Pole Mount
- 7 Type F 12" Signal Head - 5 New Mast Arm Mount w/Plumbizer
- 8 Type Q2 5 Section 12" Signal Head - 4 New Doghouse Style - Left Arrow Mast Arm Mount w/Plumbizer
- 9 Type Q 5 Section 12" Signal Head - 4 New In Line Style - Left Arrow Pole Mount
- LED Illuminated Street Sign - 4 New Broadway Road - 2 7th Avenue - 2
- LED Luminaire - 7 New
- Pedestrian Signal Head - 8 New
- AP5 Push Button - 8 New
- Video Detection - 4 New
- EVP Detector and Confirmation Light - 4 New
- PTZ CCTV Camera w/20' Riser - 1 New
- Wireless Network Radio - 1 New



APPROVED BY:
TRAFFIC SIGNAL ENGINEER
Thomas E. Weber

ACTING STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR
Seuf

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TRAFFIC SIGNAL PLAN
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
BROADWAY RD/AVENIDA RIO SALADO
AT 7th AVENUE
EQUIPMENT

PROJECT #:	FILE NO:	10428
DR: hsy	DES:	CK:
DATE: JUNE 2016	DATE:	DATE:
SCALE: 1" = 20'	QS: #:	4-26
	SHEET NO:	2
	TOTAL SHEETS	3

BROADWAY/AVENUE AT 7th AVE

PROJECT #: 5185100371(002)

FILE #: 10428

C Controller to #7 Junction Box				P Power Service Pedestal to #7 Junction Box	
CONDUIT 1	CONDUIT 2	CONDUIT 3	CONDUIT 4	CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 42C IMSA Cable	#10 Bare Copper Detection Camera Cable (4) EVP Detection Cable (4) EVP Confirmation Cable (4) CCTV Cable (1) CAT 5e Cable (1)	#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green	Detectible Mule Tape	#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green 3C IMSA Cable (Radio) 5C IMSA Cable	Detectible Mule Tape

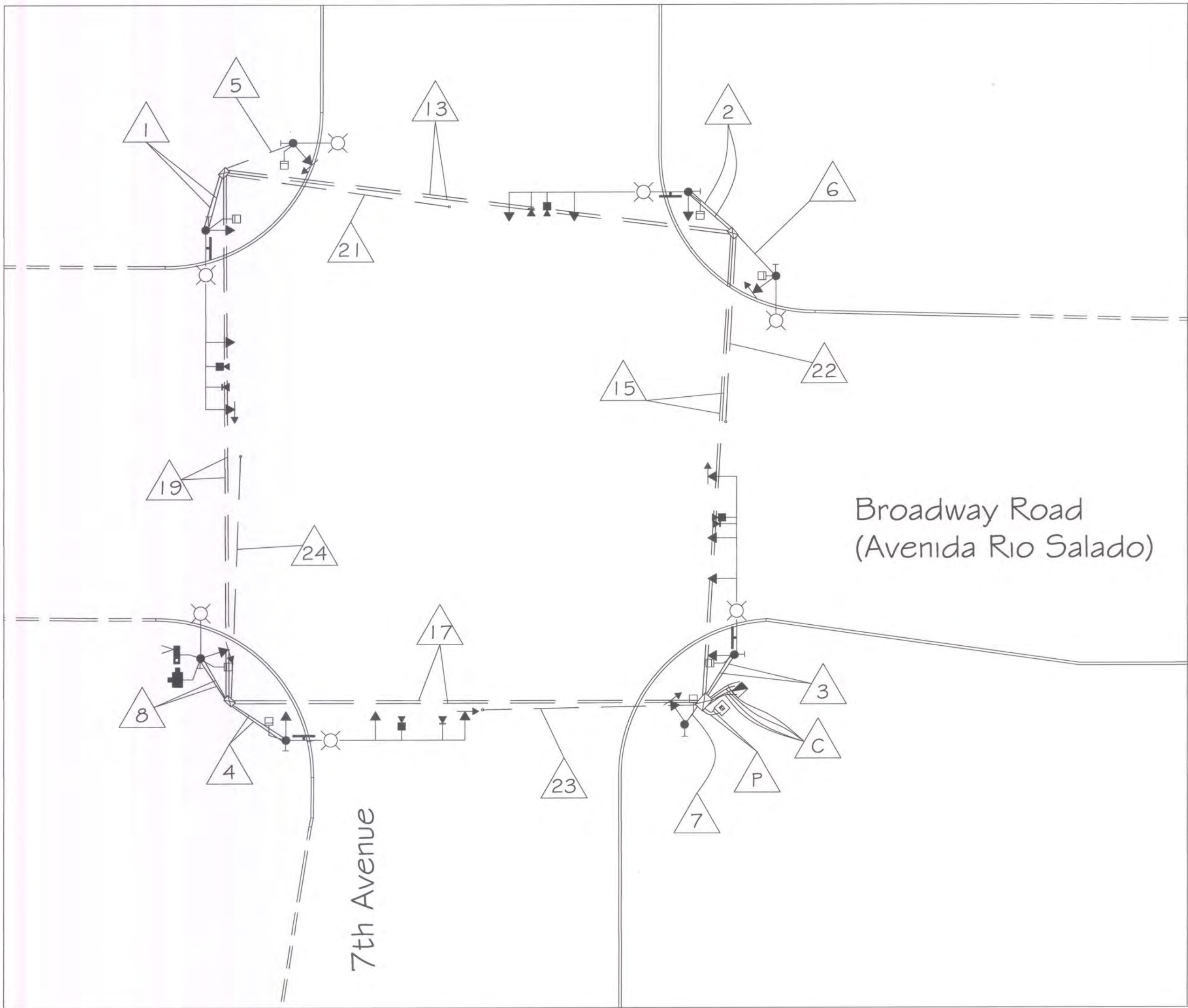
1 NWC Junction Box to SR Pole	2 NEC Junction Box to SR Pole
CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (Sign) 3C IMSA Cable (Luminaire) 20C IMSA Cable	#10 Bare Copper EVP Detection Cable (1) EVP Confirmation Cable (1) Detection Camera Cable (1)
CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (Sign) 3C IMSA Cable (Luminaire) 20C IMSA Cable	#10 Bare Copper EVP Detection Cable (1) EVP Confirmation Cable (1) Detection Camera Cable (1)

3 SEC Junction Box to SR Pole	4 SWC Junction Box to SR Pole
CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (Sign) 3C IMSA Cable (Luminaire) 20C IMSA Cable	#10 Bare Copper EVP Detection Cable (1) EVP Confirmation Cable (1) Detection Camera Cable (1)
CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (Sign) 3C IMSA Cable (Luminaire) 20C IMSA Cable	#10 Bare Copper EVP Detection Cable (1) EVP Confirmation Cable (1) Detection Camera Cable (1)

5 NWC Junction Box to LM Pole	6 NEC Junction Box to LM Pole	7 SEC Junction Box to A Pole	8 SWC Junction Box to LM Pole
CONDUIT 1	CONDUIT 1	CONDUIT 1	CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable (Luminaire) 20C IMSA Cable	#10 Bare Copper #10 AWG White 3C IMSA Cable (Luminaire) 20C IMSA Cable	#10 Bare Copper #10 AWG White 3C IMSA Cable 20C IMSA Cable	#10 Bare Copper #10 AWG White 3C IMSA Cable (Radio) 3C IMSA Cable (Luminaire) 20C IMSA Cable
CONDUIT 2			CONDUIT 2
			#10 Bare Copper CCTV Cable (1) CAT 5e Cable (1)

13 NWC Junction Box to NEC Junction Box	15 NEC Junction Box to SEC # 7 Junction Box	17 SEC #7 Junction Box to SWC Junction Box
CONDUIT 1	CONDUIT 1	CONDUIT 1
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper #10 AWG White 3C IMSA Cable (Radio) 5C IMSA Cable 42C IMSA Cable
CONDUIT 2	CONDUIT 2	CONDUIT 2
#10 Bare Copper Detection Camera Cable (2) EVP Detection Cable (2) EVP Confirmation Cable (2)	#10 Bare Copper Detection Camera Cable (2) EVP Detection Cable (2) EVP Confirmation Cable (2)	#10 Bare Copper Detection Camera Cable (1) EVP Detection Cable (1) EVP Confirmation Cable (1) CCTV Cable (1) CAT 5e Cable (1)

21 NWC Junction Box to Loop	22 NEC Junction Box to Loop	23 SEC Junction Box to Loop	24 SWC Junction Box to Loop
CONDUIT 1	CONDUIT 1	CONDUIT 1	CONDUIT 1
#10 Bare Copper	#10 Bare Copper	#10 Bare Copper	#10 Bare Copper



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.		46	91
DR:	DES:	CK:	DATE:	



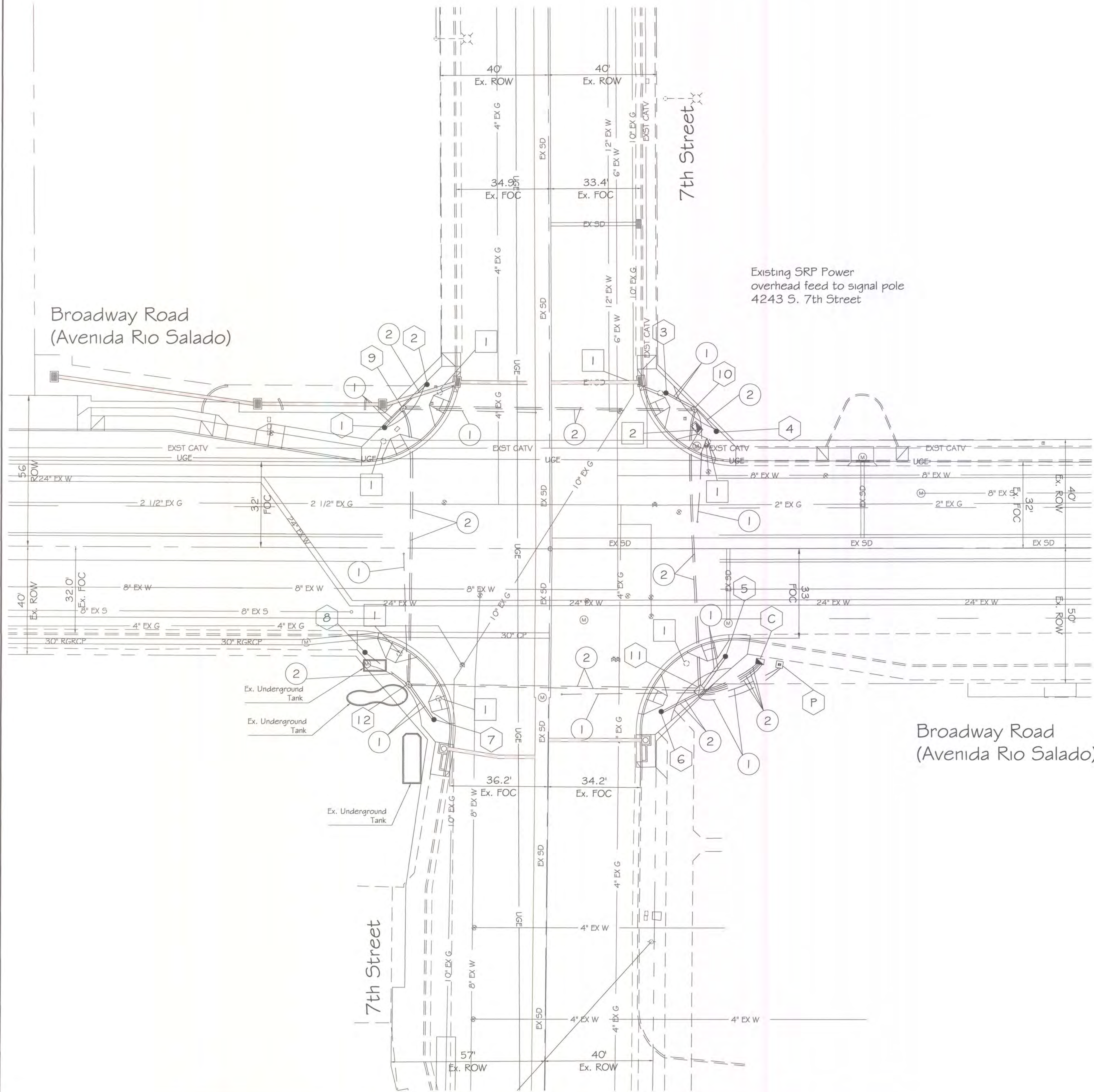
APPROVED BY:	
TRAFFIC SIGNAL ENGINEER	Thomas E. Wolan
ACTING STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR	[Signature]

PER PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE FURNISHED FOR INSPECTION OR COPYING, EXCEPT AS SPECIFICALLY STATED IN THE CITY CODE, OR AS REQUIRED BY LAW				
TRAFFIC SIGNAL PLAN				
CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT BROADWAY RD/AVENIDA RIO SALADO AT 7th AVENUE WIRING DIAGRAM				
PROJECT #:		FILE NO:	10428	
DR: hsy	DES:	CK:	SHEET NO:	TOTAL SHEETS
DATE: JUNE 2016	DATE:	DATE:	3	3
SCALE: 1" = 20'		Q5. #:	4-26	

BROADWAY/ARS AT 7th AVE

PROJECT #: 5T85100371002

FILE #: 10428



1. GENERAL NOTES:
- 1.1 The contractor shall notify the City Of Phoenix Traffic Signal Shop (602-262-6733) a minimum of fourteen (14) calendar days prior to beginning any traffic signal work. Submittals of all equipment shall be furnished to the Signal Shop and approved prior to the ordering of any traffic signal equipment. The contractor shall verify that they have the most current set of drawings prior to start and ordering of any equipment.
- 1.2 Foundation elevations must be within 1/4" of finished sidewalk grade.
- 1.3 The Contractor shall layout all ADA ramps, junction boxes and foundation locations for approval by the traffic signal representative prior to any excavation.
- 1.4 A minimum of four (4) feet of clearance is required between all traffic signal poles and the back edge of sidewalk pedestrian ramps.
- 1.5 Traffic Signal Plan approval is valid for 365 calendar days from date sealed. If signal construction has not begun prior to the 365 days elapsing, the signal plans must be re-submitted for approval or an extension granted by the Deputy Director-Traffic Services or an authorized representative to ensure that existing traffic signal equipment locations and standard detail references are current.
- 1.6 The contractor shall have a complete set of construction drawings including current City of Phoenix standard details on site at all times during signal construction activities.
2. CONTRACTOR NOTE FOR CITY OF PHOENIX TRAFFIC SIGNAL POLES
- 2.1 The contractor shall provide and install four (4) City of Phoenix Type SR poles, four (4) City of Phoenix Type LM poles, all with anchor cages, nuts bolts, one (1) 20 ft. pole extension, seven (7) standard 5 ft. pole extensions, eight (8) 5 ft. luminaire mast arms, two (2) 40 ft. signal mast arms and two (2) 35 ft. signal mast arm as per C.O.P. Street Transportation drawing # 10164.
- 2.2 Signal poles, mast arms, mast arm extensions, pole extensions and 5 ft. luminaire mast arms shall be powder coated with a color prescribed by the Traffic Signal Construction Supervisor. Contact the Supervisor at (602) 262-6733 to confirm color.
- 2.3 Separate pull strings shall be installed from end of signal mast arm for every signal device on the signal mast arms and a single pull string on the luminaire mast arms to the hand hole at the base of each traffic signal pole.
3. WORK TO BE PERFORMED BY THE CONTRACTOR
- The contractor shall provide the traffic signal equipment as indicated in note 2.1. The contractor is to provide all underground work including, but not limited to:

- 3.1 - All demolition work, unless otherwise noted
- All trenching
 - All foundations (pole, controller and power service pedestal)
 - All pole anchor cages, nuts and bolts required for pole foundations installed by the contractor in addition to those specified in note 2.1
 - All junction boxes with 1/8" of sump
 - All conduit runs
 - Provide and install the power service pedestal
 - Provide and install conduit runs from PSP to Utility Company feed
- 3.2 All underground conduits shall be schedule 40 rigid polyvinyl chloride (PVC) installed 24 inches to 30 inches below finished grade with the exception of loop lead-in conduits, which shall be schedule 40 rigid PVC installed in accordance with the latest City of Phoenix Standard Detail Sheet. All conduits shall be installed in straight lines (unless approved by the Signal Shop Inspector) junction box to junction box or junction box to signal equipment foundation with one 90 degree sweep on each end as specified in the plans. All conduits entering junction boxes shall be vertical. Conduits in all foundations shall be located as close as possible to center of the foundation and vertical with foundation below the bottom of the cover. All conduit ends except those in the controller cabinet foundation will be provided with a "bell end" fitting of appropriate size.
- 3.3 Removal of existing streetlights:
- The contractor shall:
- Request de-energization of all streetlights listed for removal.
 - Provide complete removal of streetlight pole, mast arm and luminaire
 - Properly dispose of all streetlight material
4. WORK TO BE PERFORMED BY CITY OF PHOENIX SIGNAL CREWS
- The City of Phoenix traffic signal crews will provide and install all above ground traffic signal equipment including:
- All poles and mast arms except as indicated in note 2.1
 - All signal heads
 - All pedestrian heads
 - All AFS push buttons
 - All controllers
 - All LED luminaires
 - All illuminated street signs
 - All signal wiring
 - All loop and non-invasive detectors
 - All pole grouting
 - All cameras
 - All radios



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.		47	91
DR: DES: CK: DATE:				

PROPOSED FOUNDATION SCHEDULE				
NO.	TYPE	FROM M.O.F. BROADWAY RD/ARS	FROM M.O.F. 7th ST	
C	CONT	41 ft. SOUTH	78 ft. EAST	
P	PSP	42 ft. SOUTH	86 ft. EAST	
1	SR	45 ft. NORTH	61 ft. WEST	
2	LM	61 ft. NORTH	45 ft. WEST	
3	SR	58 ft. NORTH	43 ft. EAST	
4	LM	44 ft. NORTH	62 ft. EAST	
5	SR	39 ft. SOUTH	65 ft. EAST	
6	LM	60 ft. SOUTH	42 ft. EAST	
7	SR	63 ft. SOUTH	42 ft. WEST	
8	LM	38.5 ft. SOUTH	68 ft. WEST	

PROPOSED JUNCTION BOX SCHEDULE				
NO.	TYPE	FROM M.O.F. BROADWAY RD/ARS	FROM M.O.F. 7th ST	
9	#5	51 ft. NORTH	53 ft. WEST	
10	#7	51 ft. NORTH	53 ft. EAST	
11	#5	51 ft. SOUTH	54 ft. EAST	
12	#5	50 ft. SOUTH	52 ft. WEST	

- INSTALL**
- C 8 Phase Controller Foundation
 - P Power Service Pedestal
 - 1 thru 8 See Foundation Schedule
 - 10 thru 12 See Junction Box Schedule
 - 1 2" Schedule 40 PVC with #10 copper pull wire bent over lip of stubout
 - 2 2 1/2" Schedule 40 PVC with #10 copper pull wire bent over lip of stubout
- REMOVE**
- 1 Traffic Signal Foundation - 7
A - 3
M - 4
 - 2 Traffic Signal Controller Foundation - 1



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TRAFFIC SIGNAL PLAN				
CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT				
BROADWAY RD/AVENIDA RIO SALADO AT 7th STREET FOUNDATION				
PROJECT #:	FILE NO:	10429		
DR: HSY	DES:	CK:	SHEET NO:	TOTAL SHEETS
DATE: JUNE 2016	DATE:	DATE:	1	3
SCALE: 1" = 20'		Q5. #:		

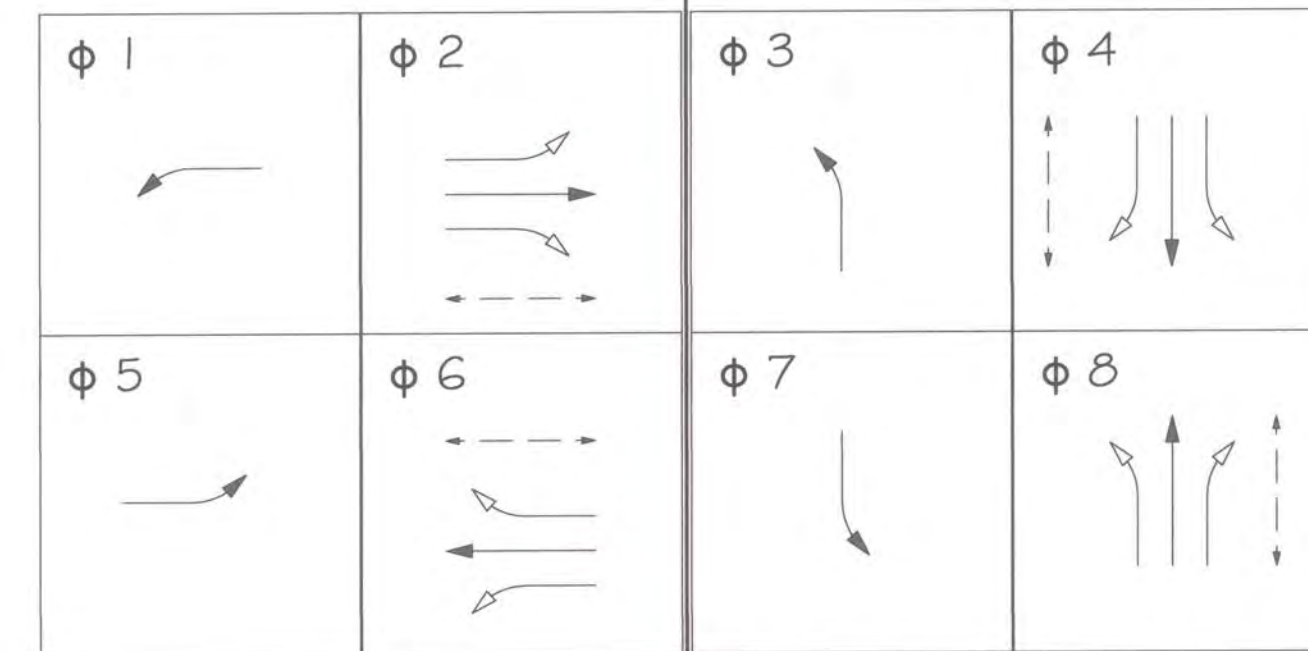
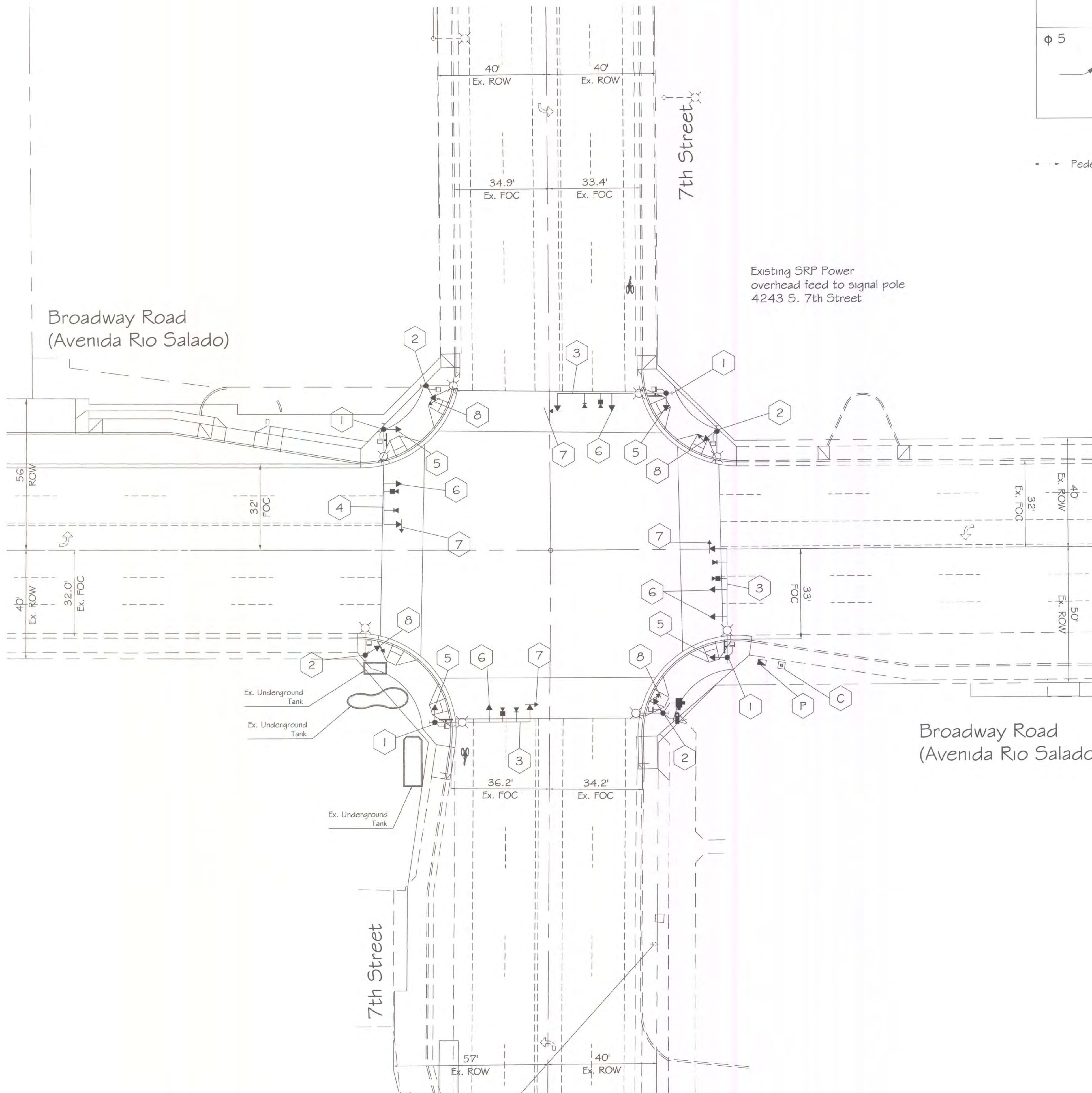
APPROVED BY:	
TRAFFIC SIGNAL ENGINEER	Thomas E. Wolan
ACTING STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR	Surf

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BROADWAY/ARS & 7th ST

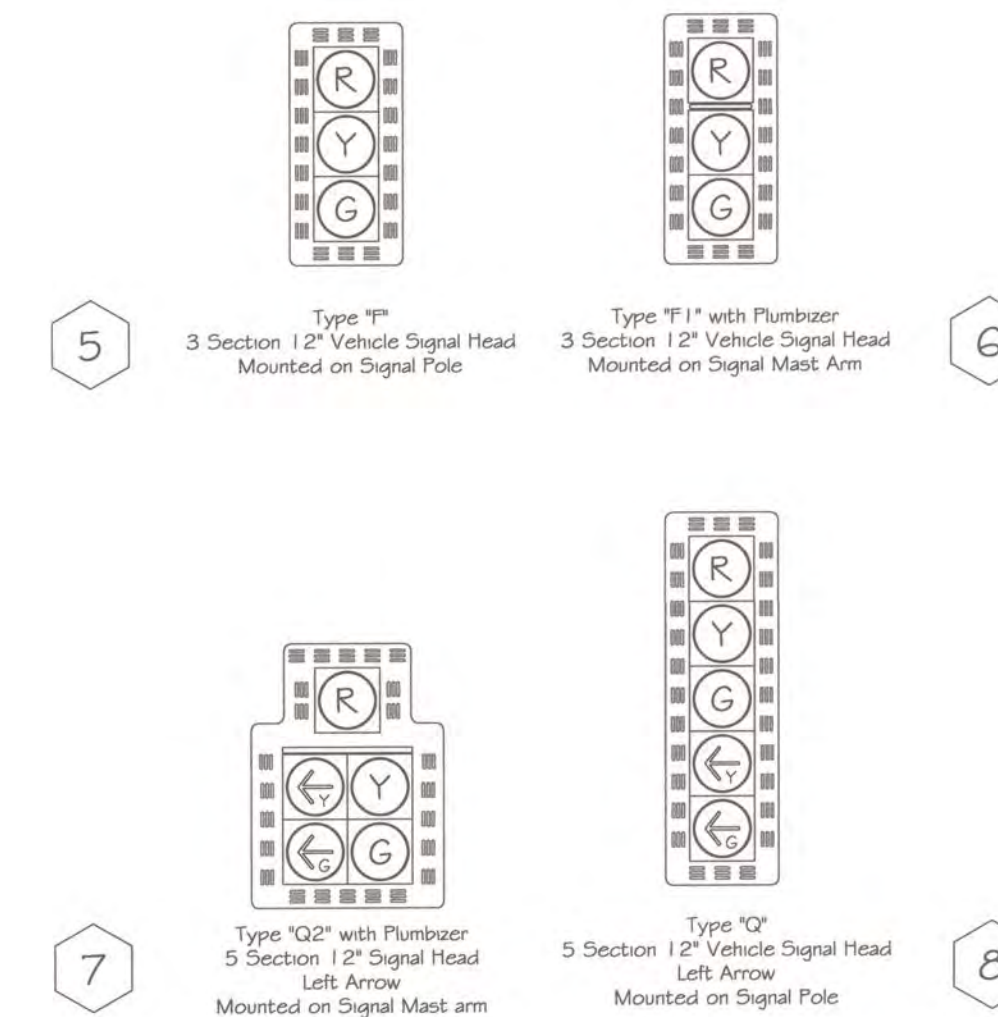
PROJECT #: 51851003710021

FILE #: 10429



Barrier

--- Pedestrian Phase ← Protected Phase ← Permitted Phase



INSTALL

- C 8 Phase Controller Cabinet
- P Power Service Pedestal
- 1 Traffic Signal Pole Type SR - 4 New
- 2 Traffic Signal Pole Type LM - 4 New
- 3 40 ft Signal Mast Arm - 2 New
- 4 35 ft Signal Mast Arm - 2 New
- 5 Type F 12" Signal Head - 4 New Pole Mount
- 6 Type F1 12" Signal Head - 5 New Mast Arm Mount w/Plumbizer
- 7 Type Q2 5 Section 12" Signal Head - 4 New Doghouse Style - Left Arrow Mast Arm Mount w/Plumbizer
- 8 Type Q 5 Section 12" Signal Head - 4 New In Line - Left Arrow Pole Mount
- LED Luminaire - 8 New
- LED Illuminated Street Sign - 4 New
Broadway Road - 2
7th Street - 2
- Pedestrian Head - 8 New
- Pedestrian Push Button - 8 New
- Vehicle Detection - 4 New
- EVP Detector and Confirmation Light - 4 New
- PTZ CCTV Camera w/20' Riser - 1 New
- Wireless Network Radio - 1 New



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TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
BROADWAY RD/AVENIDA RIO SALADO
AT 7th STREET
EQUIPMENT

PROJECT #:	FILE NO:	10429
DR: HSY	DES:	CK:
DATE: JUNE 2016	DATE:	DATE:
SCALE: 1" = 20'	Q5. #:	
	SHEET NO:	TOTAL SHEETS
	2	3

APPROVED BY:

TRAFFIC SIGNAL ENGINEER

ACTING STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR



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BROADWAY/AR5 & 7th ST

PROJECT #: ST&S 100371 (002)

FILE #: 10429

C Controller to #7 Junction Box

CONDUIT 1	CONDUIT 2	CONDUIT 3	CONDUIT 4
#10 Bare Copper #10 AWG White 42C IMSA Cable	#10 Bare Copper Detection Camera Cable (4) EVP Detection Cable (4) EVP Confirmation Cable (4) CCTV Cable (1) CAT 5e Cable (1)	#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green	Detectible Mule Tape

P Power Service Pedestal to #7 Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green 3C IMSA Cable (Radio) 5C IMSA Cable	Detectible Mule Tape

1 NWC Junction Box to SR Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (Sign) 3C IMSA Cable (Luminaire) 20C IMSA Cable	#10 Bare Copper EVP Detection Cable (1) EVP Confirmation Cable (1) Detection Camera Cable (1)

2 NEC Junction Box to SR Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (Sign) 3C IMSA Cable (Luminaire) 20C IMSA Cable	#10 Bare Copper EVP Detection Cable (1) EVP Confirmation Cable (1) Detection Camera Cable (1)

3 SEC Junction Box to SR Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (Sign) 3C IMSA Cable (Luminaire) 20C IMSA Cable	#10 Bare Copper EVP Detection Cable (1) EVP Confirmation Cable (1) Detection Camera Cable (1)

4 SWC Junction Box to SR Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (Sign) 3C IMSA Cable (Luminaire) 20C IMSA Cable	#10 Bare Copper EVP Detection Cable (1) EVP Confirmation Cable (1) Detection Camera Cable (1)

5 NWC Junction Box to LM Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable (Luminaire) 20C IMSA Cable

6 NEC Junction Box to LM Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable (Luminaire) 20C IMSA Cable

7 SEC Junction Box to LM Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (Radio) 3C IMSA Cable (Luminaire) 20C IMSA Cable	#10 Bare Copper CCTV Cable (1) CAT 5e Cable (1)

8 SWC Junction Box to LM Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable (Luminaire) 20C IMSA Cable

13 NWC Junction Box to NEC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Detection Camera Cable (2) EVP Detection Cable (2) EVP Confirmation Cable (2)

15 NEC Junction Box to SEC #7 Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Detection Camera Cable (2) EVP Detection Cable (2) EVP Confirmation Cable (2)

17 SEC #7 Junction Box to SWC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Detection Camera Cable (1) EVP Detection Cable (1) EVP Confirmation Cable (1) CCTV Cable (1) CAT 5e Cable (1)

19 SWC Junction Box to NEC Junction Box

CONDUIT 1	CONDUIT 2
Detectible Mule Tape	Detectible Mule Tape

21 NWC Junction Box to Loop

CONDUIT 1

22 NEC Junction Box to Loop

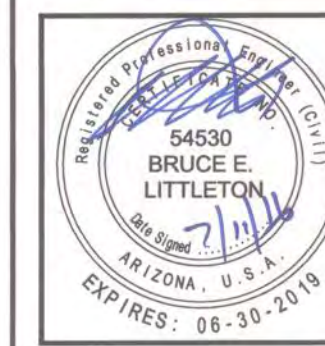
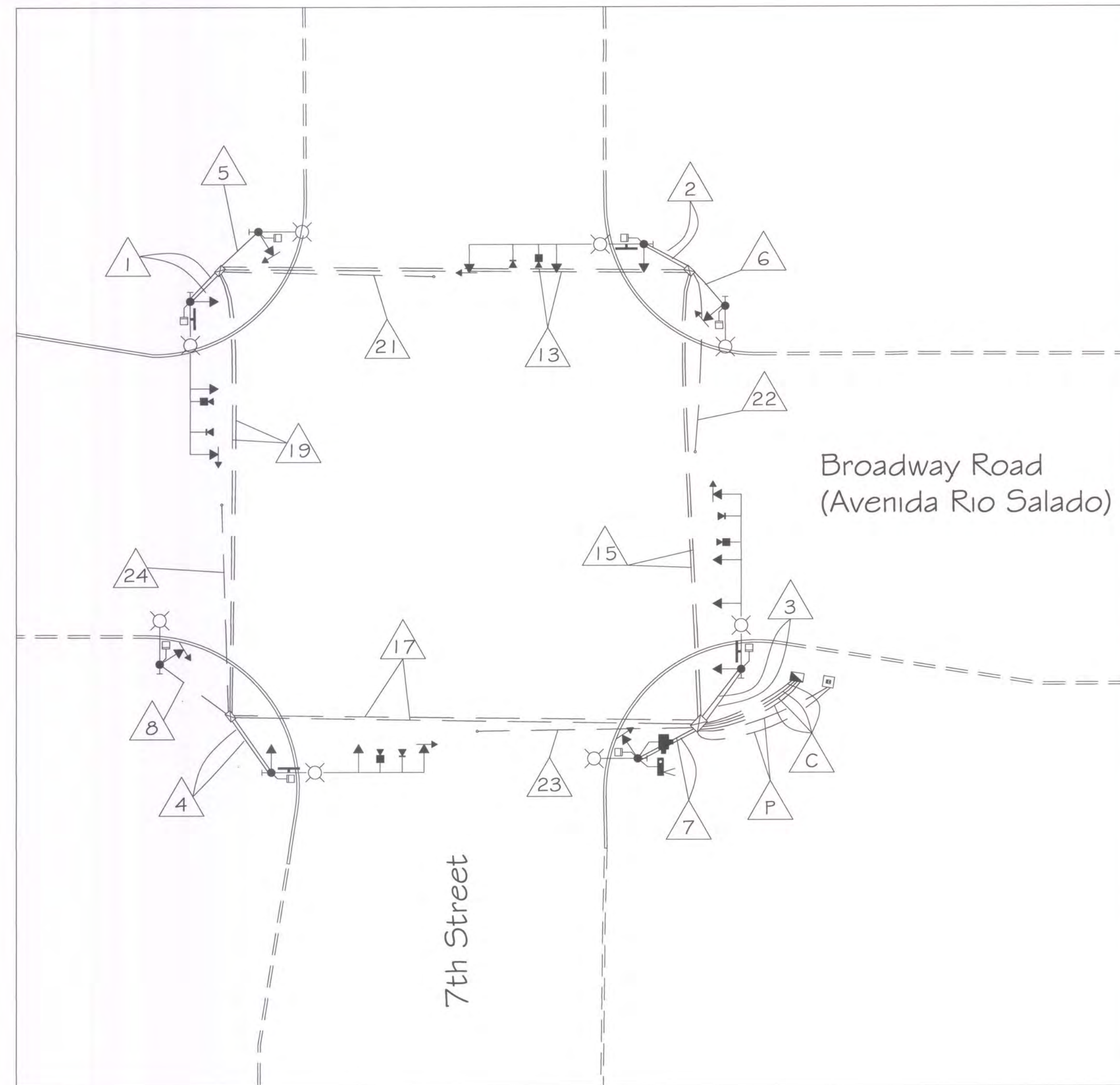
CONDUIT 1

23 SEC Junction Box to Loop

CONDUIT 1

24 SWC Junction Box to Loop

CONDUIT 1



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.		49	91
DR: DES: CK: DATE:				



APPROVED BY:
TRAFFIC SIGNAL ENGINEER
Thomas E. Wolan

ACTING STREET TRANSPORTATION SERVICES DEPUTY DIRECTOR
Samir

PER PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE FURNISHED FOR INSPECTION OR COPYING, EXCEPT AS SPECIFICALLY STATED IN THE CITY CODE, OR AS REQUIRED BY LAW

TRAFFIC SIGNAL PLAN
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
BROADWAY RD/AVENIDA RIO SALADO
AT 7th STREET
WIRING DIAGRAM

PROJECT #:	FILE NO:	10429
DR: HSY	DES:	CK:
DATE: JUNE 2016	DATE:	DATE:
SCALE: 1" = 20'	QS. #:	
	SHEET NO:	3
	TOTAL SHEETS:	3

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BROADWAY/ARS & 7th ST

PROJECT #: ST85100371002

FILE #: 10429

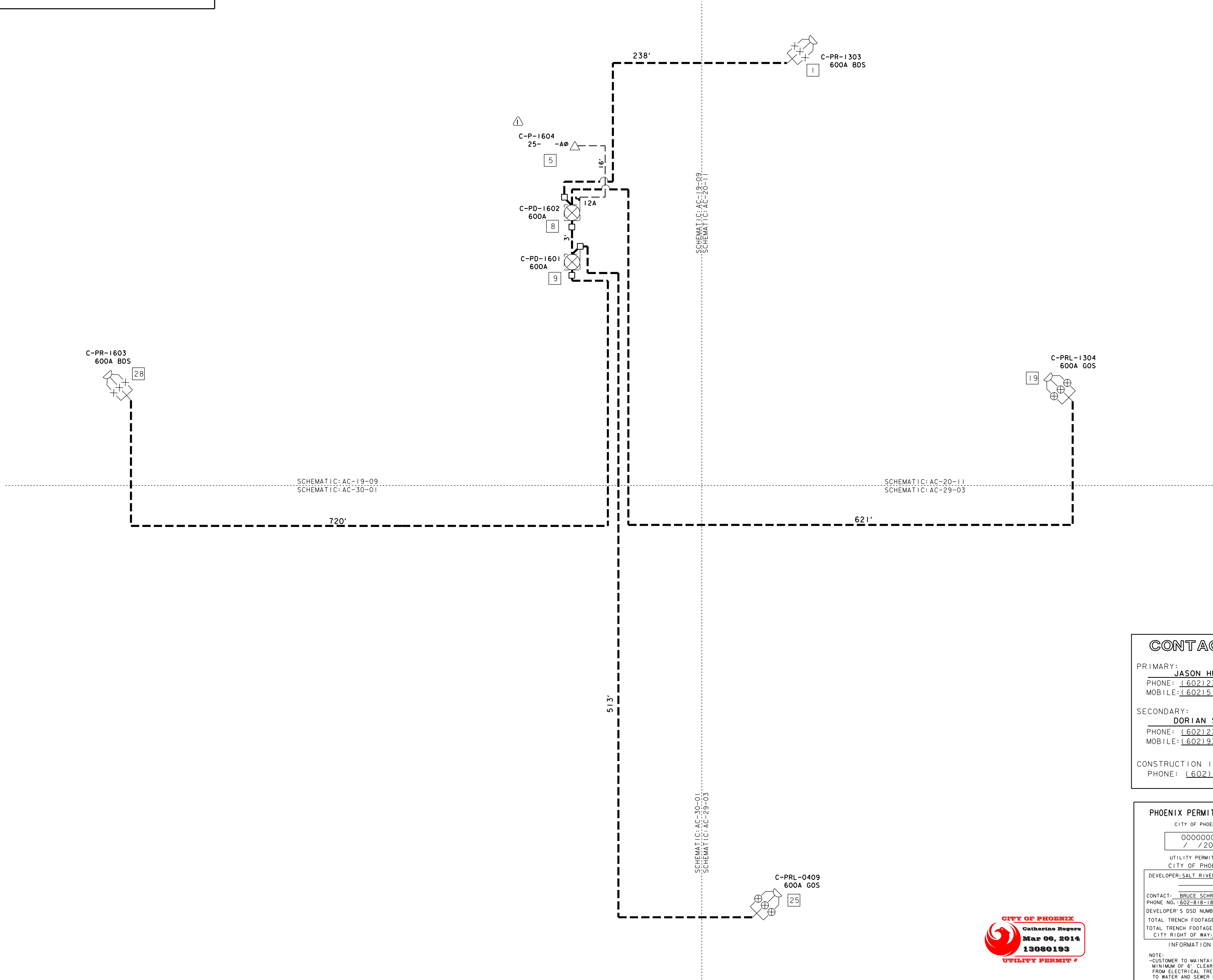
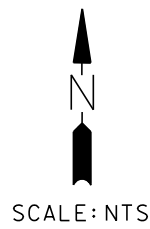
SCHEMATIC LEGEND

*UNLESS OTHERWISE INDICATED

C-3UA750K
C-1UA2K

SCHEMATIC:

AC-19-09; AC-29-03; AC-30-01; AC-20-11



CITY OF PHOENIX
GENERAL NOTES FOR UTILITY CONSTRUCTION

1. All utility construction shall conform to the latest Maricopa Association of Governments (MAG) Uniform Standard Specifications and Details for Public Works Construction, and the City of Phoenix Supplements to MAG.
2. All work performed in the City of Phoenix rights-of-way shall be governed by the latest edition of the City of Phoenix Traffic Barricade Manual.
3. This set of plans was reviewed by the City of Phoenix Utility Coordination Section in compliance with City requirements. However, such review shall not prevent the City from requiring correction of errors found to be in violation of any law ordinance or City of Phoenix requirement for utility construction in the rights-of-way.
4. The contractor shall have a copy of the approved/stamped construction plans and approved traffic control plan at the project site at all times.
5. All utilities crossing streets must be bored or punched unless permission to open cut has been given in writing by the City Engineer.
6. Before starting any work on a major or collector street, the utility company shall schedule a preconstruction meeting with the City of Phoenix Street Transportation Department 5/32 s Utility Inspection Section.
7. The City of Phoenix does not warrant any quantities shown on these plans.
8. Utility companies are to coordinate alley work with the Refuse Section.
9. The utility company shall contact the City of Phoenix Street Transportation Department 5/32 s Utility Inspection Section a minimum of 48 hours in advance of starting work, giving location and permit number in order to schedule inspections.
10. All work requiring asphalt replacement, concrete replacement, or resurfacing alleys in the City of Phoenix right-of-way will require a final inspection with the utility company representative at time of completion.
11. Maintain a minimum six (6) feet horizontal separation and one (1) foot vertical from all water and sewer mains, all measurements outside to outside.

MAINLINE LEGEND

- PROPOSED UNDERGROUND SWITCH.
- EXISTING WOOD POLE.
- PROPOSED RISER ON PROPOSED WOOD POLE
- PROPOSED RISER ON EXISTING POLE
- POINT NUMBER (FOR WORK TO BE DONE)
- PROPOSED METER LOCATION
- PROPOSED UNDERGROUND PRIMARY BORE/TRENCH ROUTE.
- PROPOSED UNDERGROUND SERVICE BORE/TRENCH ROUTE.
- PROPOSED UNDERGROUND SECONDARY CONDUCTOR.
- PROPOSED UNDERGROUND J-BOX.
- NEW UNDERGROUND PULL BOX.
- UNDERGROUND ELECTRONIC MARKER.
- PROPOSED STREET LIGHT ON STEEL POLE

CONTACTS:

PRIMARY:
JASON HUGHES
PHONE: (602) 236-0886
MOBILE: (602) 516-2385

SECONDARY:
DORIAN SPEED
PHONE: (602) 236-4772
MOBILE: (602) 930-6544

CONSTRUCTION INSPECTION:
PHONE: (602) 236-0436

PHOENIX PERMIT BOXES

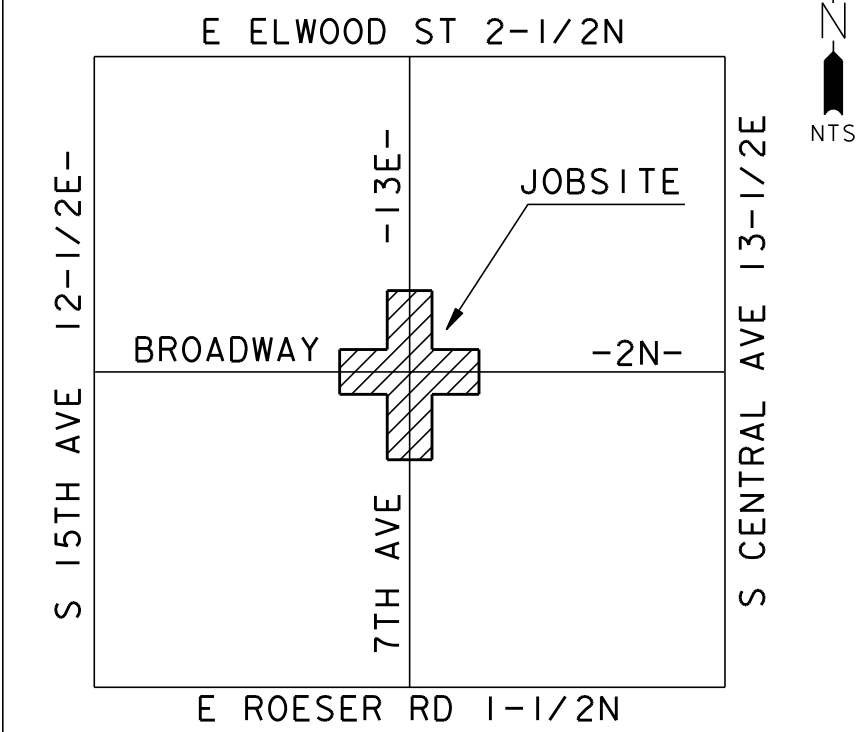
CITY OF PHOENIX
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/ 2013

UTILITY PERMIT NO.
CITY OF PHOENIX
DEVELOPER: SALT RIVER PROJECT

CONTACT: BRUCE SCHROEDER
PHONE NO.: 602-818-1813
DEVELOPER'S DSD NUMBER:
TOTAL TRENCH FOOTAGE: 1678'
TOTAL TRENCH FOOTAGE WITHIN CITY RIGHT OF WAY: 1678'

NOTE:
-CUSTOMER TO MAINTAIN MINIMUM OF 6' CLEARANCE FROM ELECTRICAL TRENCH TO WATER AND SEWER MAINS.

VICINITY MAP



NOTICE

THIS JOB ORDER INVOLVES OVERHEAD, UNDERGROUND AND/ OR SERVICES
OH# JJ2-219
UG#
SER#

FIELD INSPECTION STAMP

⚠	RXSCHROE	02/20/14	ADJUSTED TRENCH ROUTE ALONG 7TH AVE; ADDED FIBER	
⚠	RXSCHROE	01/22/14	ADDED 1PH X-FORMER & S/L; RENUMBERED ACTIVITY POINTS TWEAKED DETAIL "A"; ADDED EQUIPMENT DIMENSIONS ADDED LIGHTS NUMBERS; ADDED STATIONING-PERMIT	
⚠	RXSCHROE	03/04/13	JOB CREATED	
REV	REVISED BY	DATE	REVISION DESCRIPTION	
JOB NAME ARS3 BROADWAY & S 7TH AVE				
FIS JO	KJ2-742	MAP 1/4	SE S 19 T 1 N R 3E	
40/ACRE	AC-19-16	COORDS	12-15/16E : 2-1/16N	
AMP WO	T1860316	AMP VERSION		
COST CENTER		22680		
ROUTING CODE		DDY+7		
			SHEET NUMBER 1 OF 5	

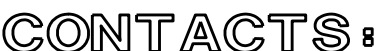


CONDUIT ONELINE LEGEND

(CONDUITS ARE AS FOLLOWS UNLESS NOTED OTHERWISE.



- 1.) ALL EXISTING UTILITIES THAT ARE TO BE CROSSED WITH THE NEW BORE OR TRENCH MUST BE POT HOLED BEFORE CROSSING.
- 2.) THERE MUST BE AT LEAST A 1' MINIMUM SEPARATION BETWEEN ANY UTILITIES CROSSED WITH THE PROPOSED CONDUIT.
- 3.) DUE TO THE EXISTING EASEMENT WIDTH AND EXISTING UTILITIES IN THAT EASEMENT, ADDITIONAL POT HOLE OR OUTAGE ON THE EXISTING CONDUIT MAY BE REQUIRED TO BORE SAFELY IN THE EASEMENT.
- 4.) THE BOTTOM OF ALL NEW UNDERGROUND EQUIPMENT PADS WILL BE SET AT THE SAME ELEVATION AS THE TOP OF EXISTING CURB OR SIDEWALK.
- 5.) INSTALL A UBGRO OR UBGROD GROUND IN ANY CUBICLE ON THIS JOB THAT IS MISSING A GROUND.
- 6.) CAP ALL CONDUIT STUBS UP AND INSTALL A ELECTRONIC MARKER. DO NOT ENCASE THE STUB OUTS IN SLURRY. COVER ALL STUB OUTS WITH NATIVE DIRT.
- 7.) STUB ALL PRIMARY AND SECONDARY CONDUITS INTO THE SINGLE PHASE TRANSFORMERS PER CONDUIT AND ONE LINE DRAWING. IF THE WINDOW IS TOO SMALL, ENLARGE THE WINDOW OR CHANGE OUT THE PAD TO A NEWER PAD WITH THE SINGLE WINDOW.



PRIMARY: JASON HUGHES
PHONE: (602) 236-0886
MOBILE: (602) 516-2385

SECONDARY:
DORIAN SPEED
PHONE: (602) 236-4772
MOBILE: (602) 930-6544

CONSTRUCTION INSPECTOR
PHONE: (602) 236-043

JOB NAME	ARS3 BROADWAY & S 7TH AVE		
FIS JO	KJ2-742	MAP 1/4	SE S 19 T 1 N R 3E
40/ACRE	AC-19-16	COORDS	12-15/16E : 2-1/16N
AMP WO	T1860316	AMP VERSION	
COST CENTER	22680		
ROUTING CODE	DDY+7		S

Call at least two full working days
before you begin excavation.

ARTZONA811
Arizona Blue Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-11 (782-5548)
In Maricopa County: (602)263-1100

ARP

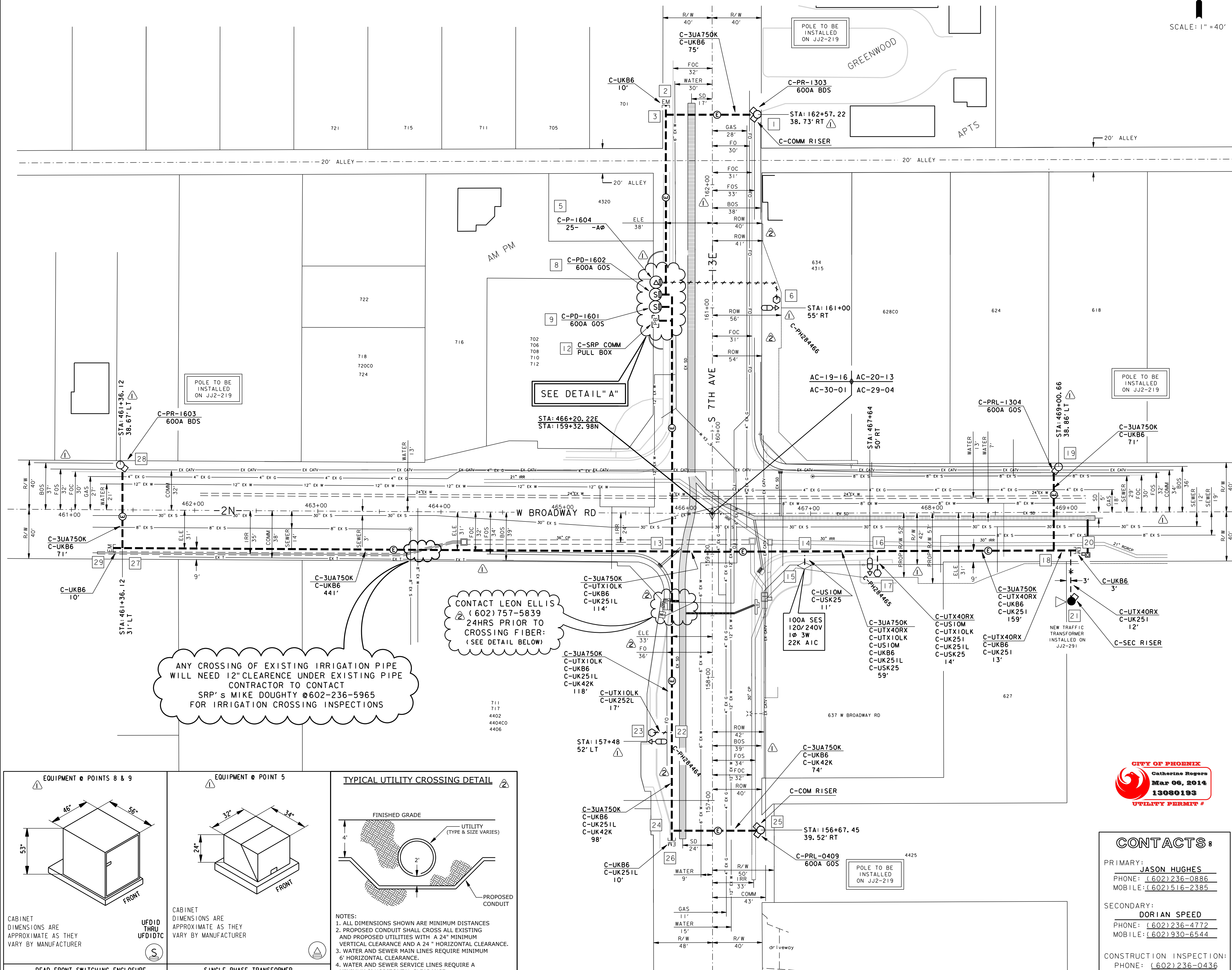


SHEET NUMBER 2 OF 5

02/20/14

EASY, PLEASANT, AND REWARDING
DWG SERIES No. SRPP-1.02

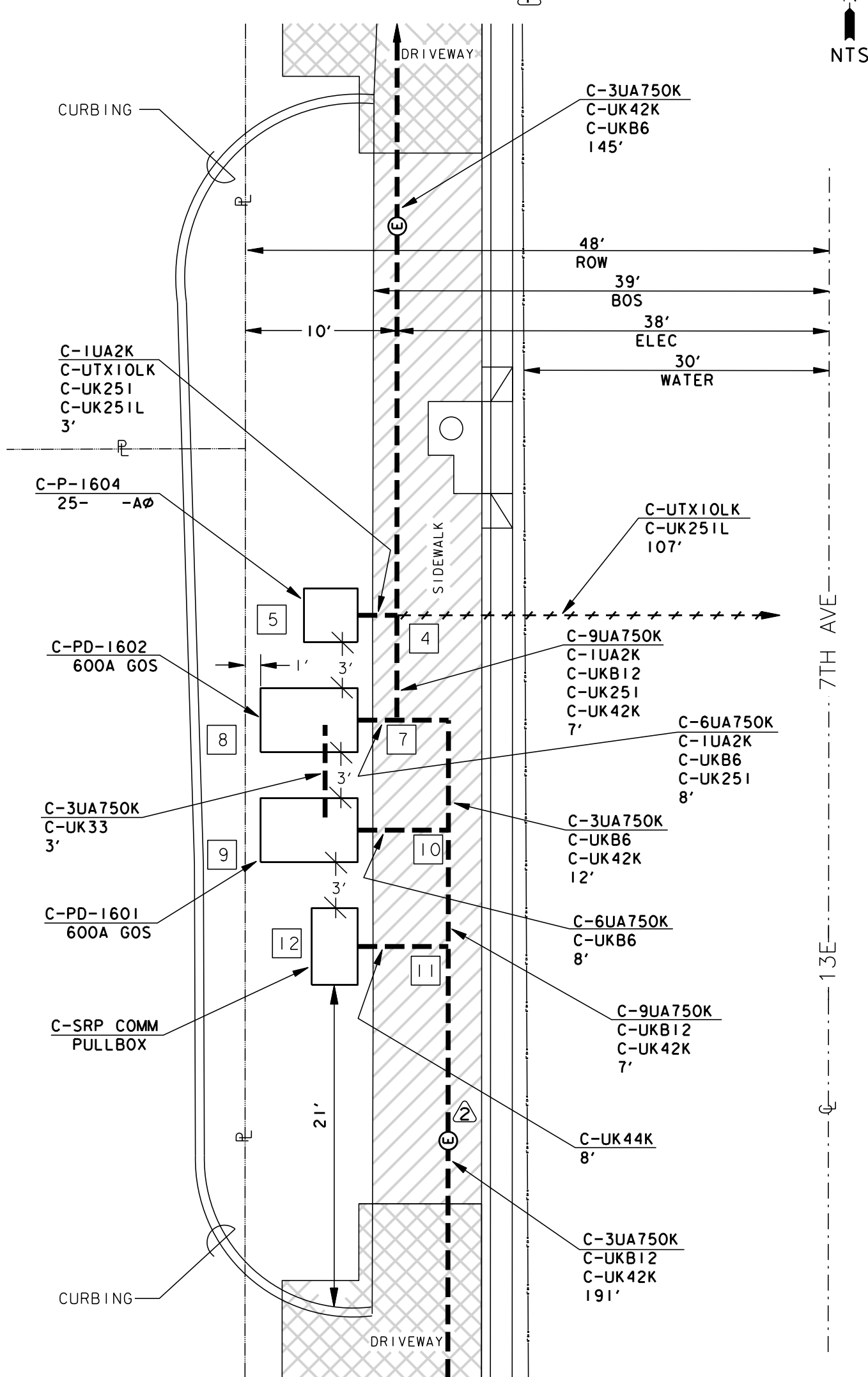
MAINLINE (WORKS WITH JJ2-219)



EQUIPMENT STATIONING

STA: 161+14.14 44.17' LT	C-P-1604 25' -AØ	STA: 161+14.14 4C. 67' LT
STA: 161+1C. 64 44.17' LT		STA: 161+1C. 64 4C. 67' LT
STA: 161+7. 64 47' LT	C-PD-1602 600A GOS	STA: 161+7. 64 4C. 67' LT
STA: 161+C3. 47 47' LT		STA: 161+C3. 47 4C. 67' LT
STA: 161+00. 47 47' LT	C-PD-1601 600A GOS	STA: 161+00. 47 4C. 67' LT
STA: 160+96. 30 47' LT		STA: 160+96. 30 4C. 67' LT
STA: 16C+93. 03 43. 67' LT		STA: 16C+93. 3C 4C. 67' LT
STA: 16C+88. 3C 43. 67' LT	C-SRP COMM PULL BOX	STA: 16C+88. 3C 4C. 67' LT

DETAIL "A"



CONTACTS:

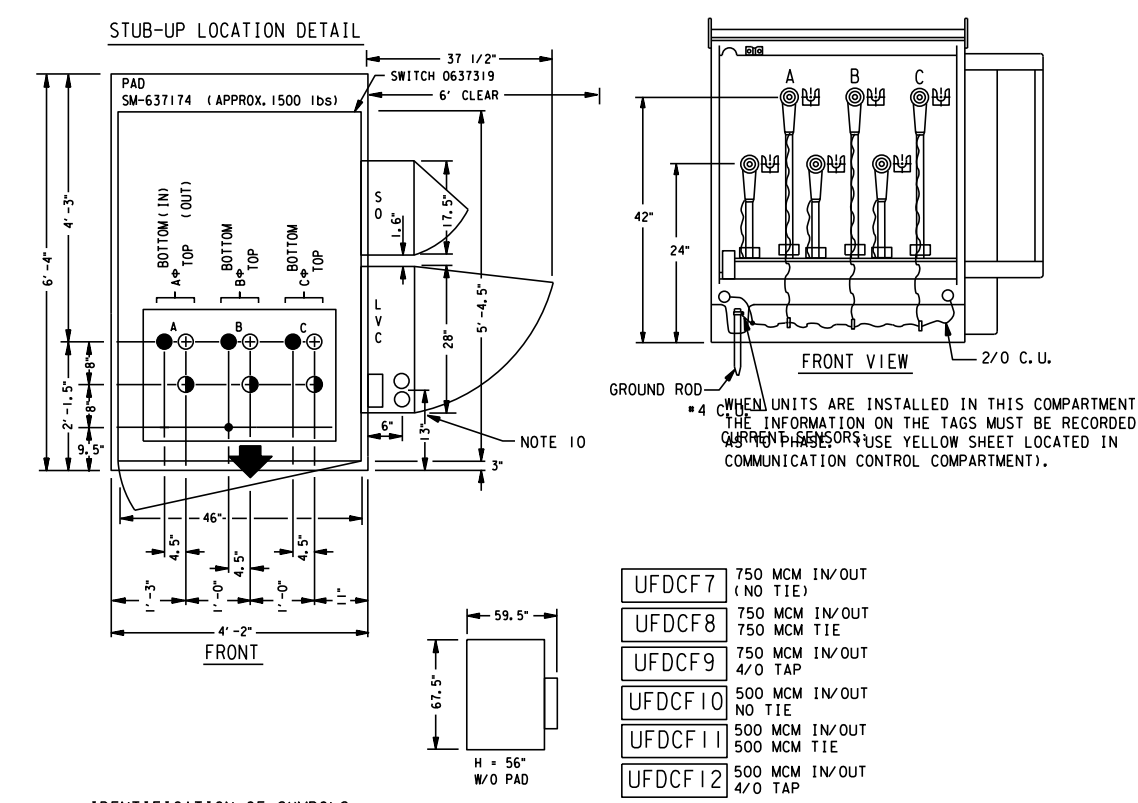
PRIMARY:
JASON HUGHES
PHONE: (602) 236-0886
MOBILE: (602) 516-2385

SECONDARY:
DORIAN SPEED
PHONE: (602) 236-4772
MOBILE: (602) 930-6544

CONSTRUCTION INSPECTION:
PHONE: (602) 236-0436

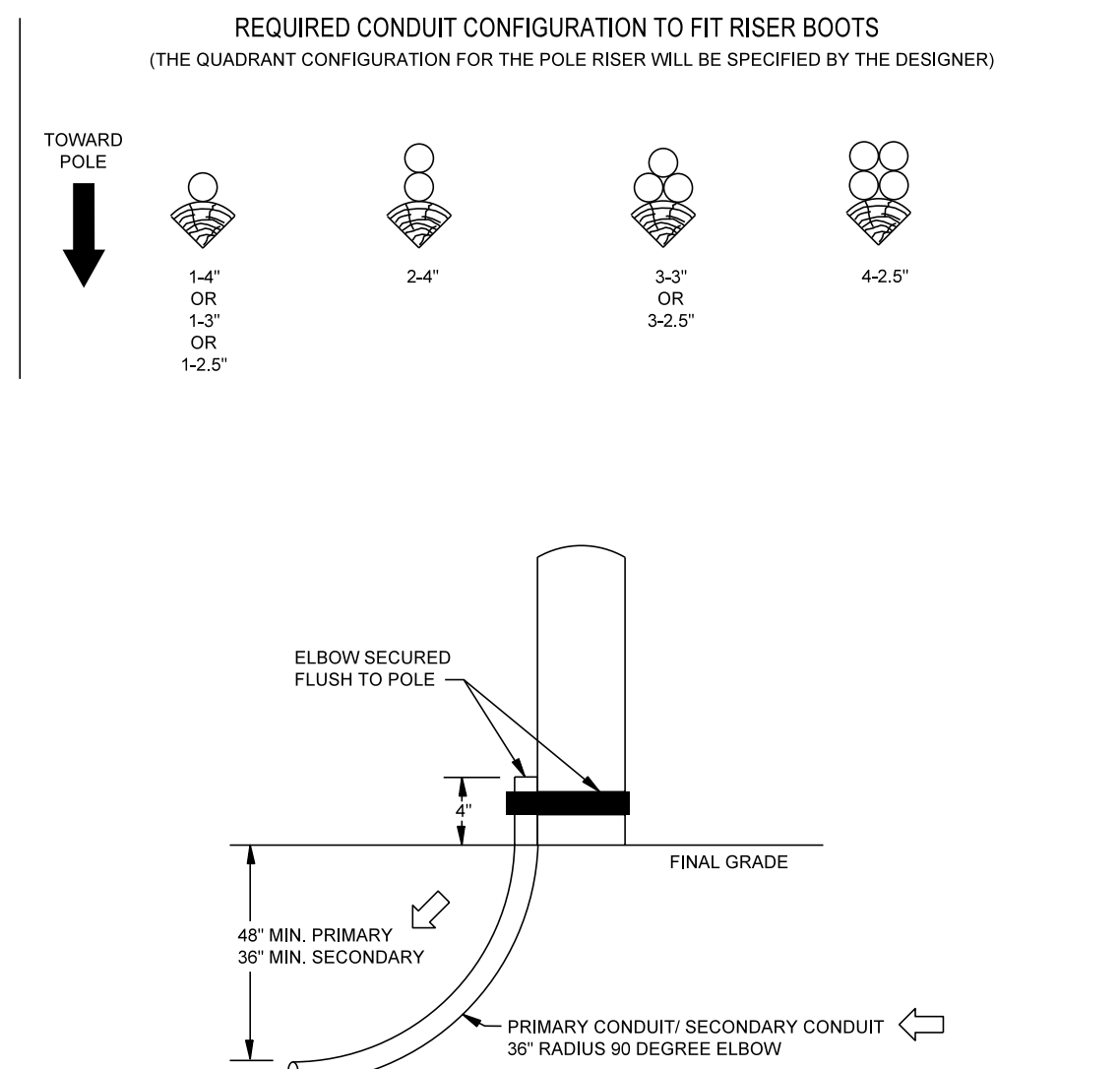
JOB NAME: ARS3 BROADWAY & S 7TH AVE
FIS JO: KJ2-742 MAP 1/4 SE S 19 T 1 N R 3E
40/ACRE: AC-19-16 COORDS: 12-15/16E : 2-1/16N
AMP NO: T1860316 AMP VERSION:
COST CENTER: 22680
ROUTING CODE: DDY+7



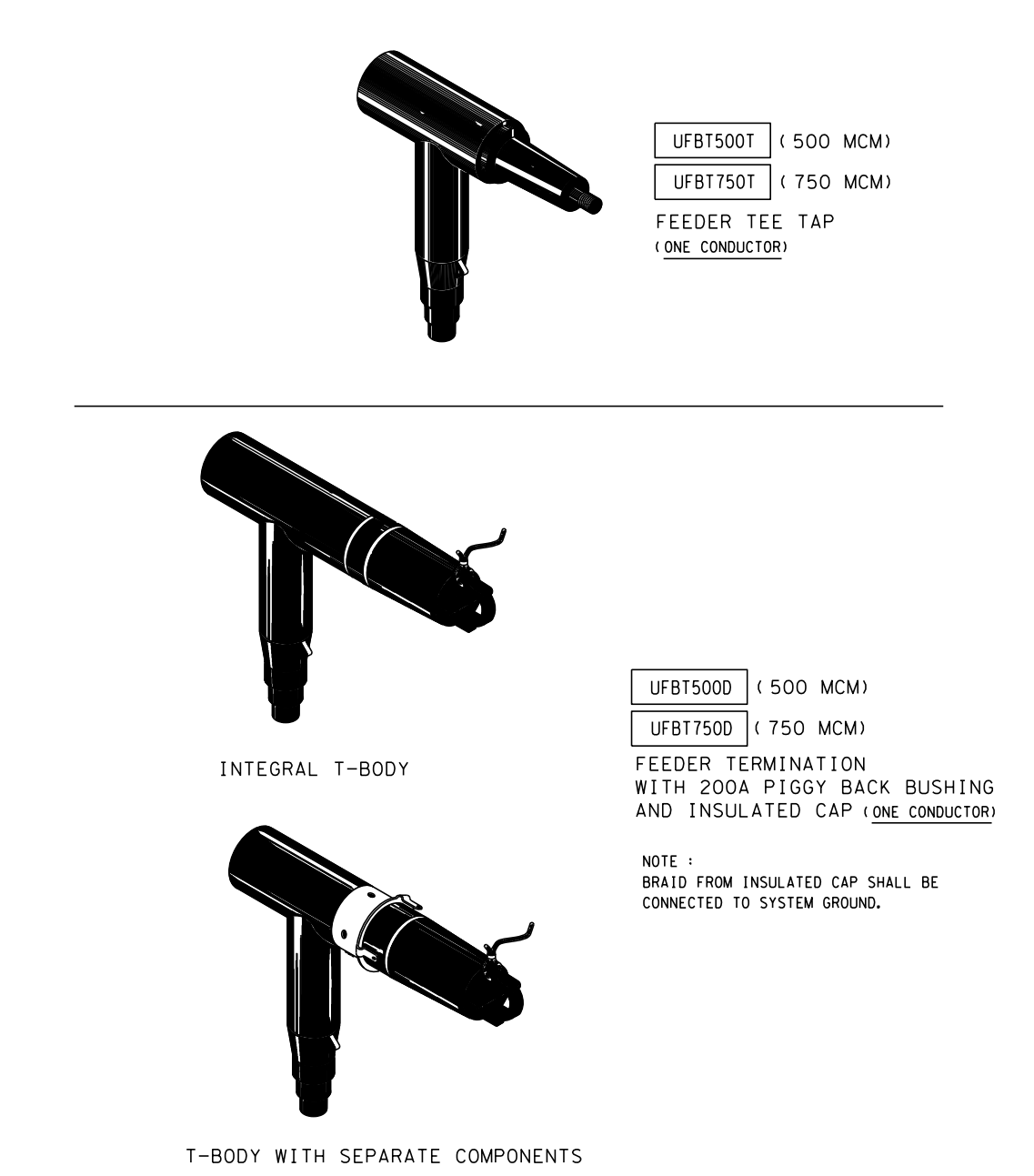


- IDENTIFICATION OF SYMBOLS**
- | SYMBOL | POSITION | CABLE TERMINATION |
|--------|------------|--|
| 1 | TOP | 3" CONDUIT FOR EITHER: 500MCM FEEDER OR 750MCM FEEDER |
| 2 | TOP-TAP | 3" CONDUIT FOR EITHER: 500MCM FEEDER, 750MCM FEEDER, OR 4/0 AL |
| 3 | BOTTOM | 3" CONDUIT FOR EITHER: 500MCM FEEDER OR 750MCM FEEDER |
| 4 | GROUND ROD | |
- NOTES**
- ALL PAD ELEVATIONS SHALL BE ESTABLISHED BY SURVEY (BLUE TOP), AND TOP OF PAD SHALL BE 4" ABOVE FINAL GRADE IN IMMEDIATE AREA.
 - PAD MUST BE LEVEL BEFORE SETTING ENCLOSURE. AREA UNDER PAD MUST BE COMPACTED PER TRENCH SPECIFICATIONS.
 - IF OBSTACLES ARE ANTICIPATED IN FRONT OF THE SWITCH (E.G., DESIGNATED PARKING), THE SWITCH SHALL BE ROTATED 90 DEG. SO THE "25" AND "15" COMPARTMENTS FACE ROAD RIGHT OF WAY. ADDITIONAL LABELING SHALL BE PLACED ON THE SIDE OF THE ENCLOSURE FACING ROAD RIGHT OF WAY.
 - INSTALL GROUND CONNECTORS INTO ENCLOSURE GROUNDING NUTS. TRAIN 2/0 CU ALONG FRONT BASE OF ENCLOSURE AND CONNECT TO GROUND CONNECTORS.
 - INSTALL GROUND RODS TO NOT INTERFERE WITH CONDUITS. CONNECT #4 CU LEAD FROM GROUND ROD TO GROUND CONNECTORS.
 - TRAIN CONCENTRIC NEUTRAL WIRES DOWN ALONG CABLES AND CONNECT TO 2/0 CU BUS USING COMPRESSION CONNECTORS. CONNECT GROUND LEADS FROM INSULATED BUSHING CAPS TO 2/0 CU USING SPLIT BOLTS.
 - CONDUIT SHALL BE STUBBED TO 1" BELOW THE LEVEL OF THE PAD (5" ABOVE GRADE.)
 - LOAD BREAK BUSHINGS PROVIDE POINT FOR TESTING AND GROUNDING.
 - TWO COMMUNICATIONS CONDUIT ENTRANCES AT THIS APPROXIMATE LOCATION ON CABINET BOTTOM. SEE "SWITCHING AND FUSING, REMOTE SUPERVISORY CONTROL".

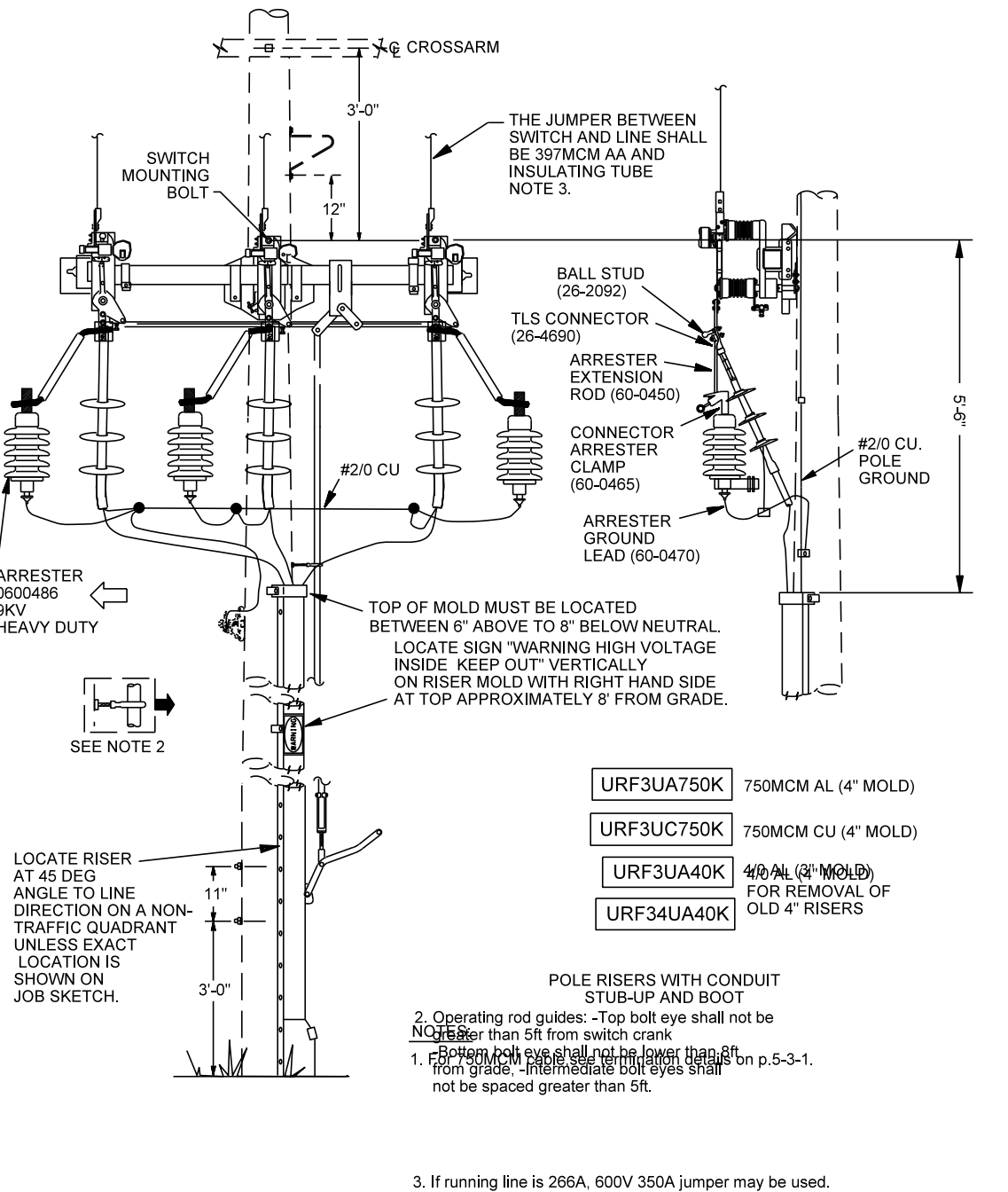
Underground Distribution Construction Standards	REV. DELETED PREVIOUS NOTES 7 AND 11 ADDRESSING LOCKS AND SPEEDCRETE.	ISSUE DATE: 07/07/09
	SWITCHING AND FUSING REMOTE CONTROL S&C DEAD FRONT SWITCH ONE SIDE ACCESS	REV. DATE: 02/10/11 APPROVAL: B. PRIEST
SRP	3-16-1	8513E508.DGN



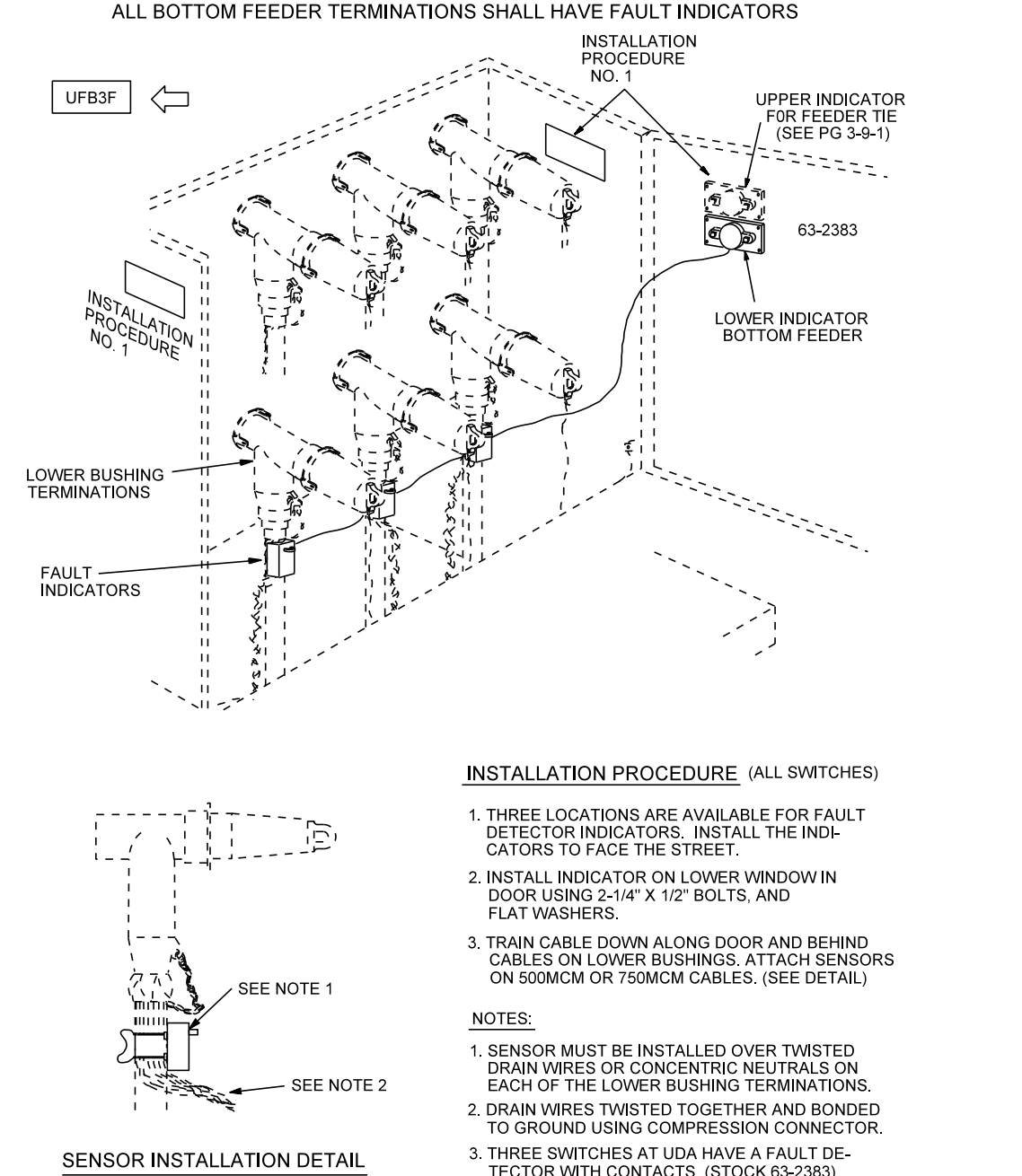
Electric Service Specifications	TRENCHING AND CONDUIT POLE RISER ELBOW AND LOCATION	ISSUE DATE: 09/01/09
		REV. DATE: 10/09/10 APPROVAL: M. MILLIES
SRP	6-3	8509E310.DGN



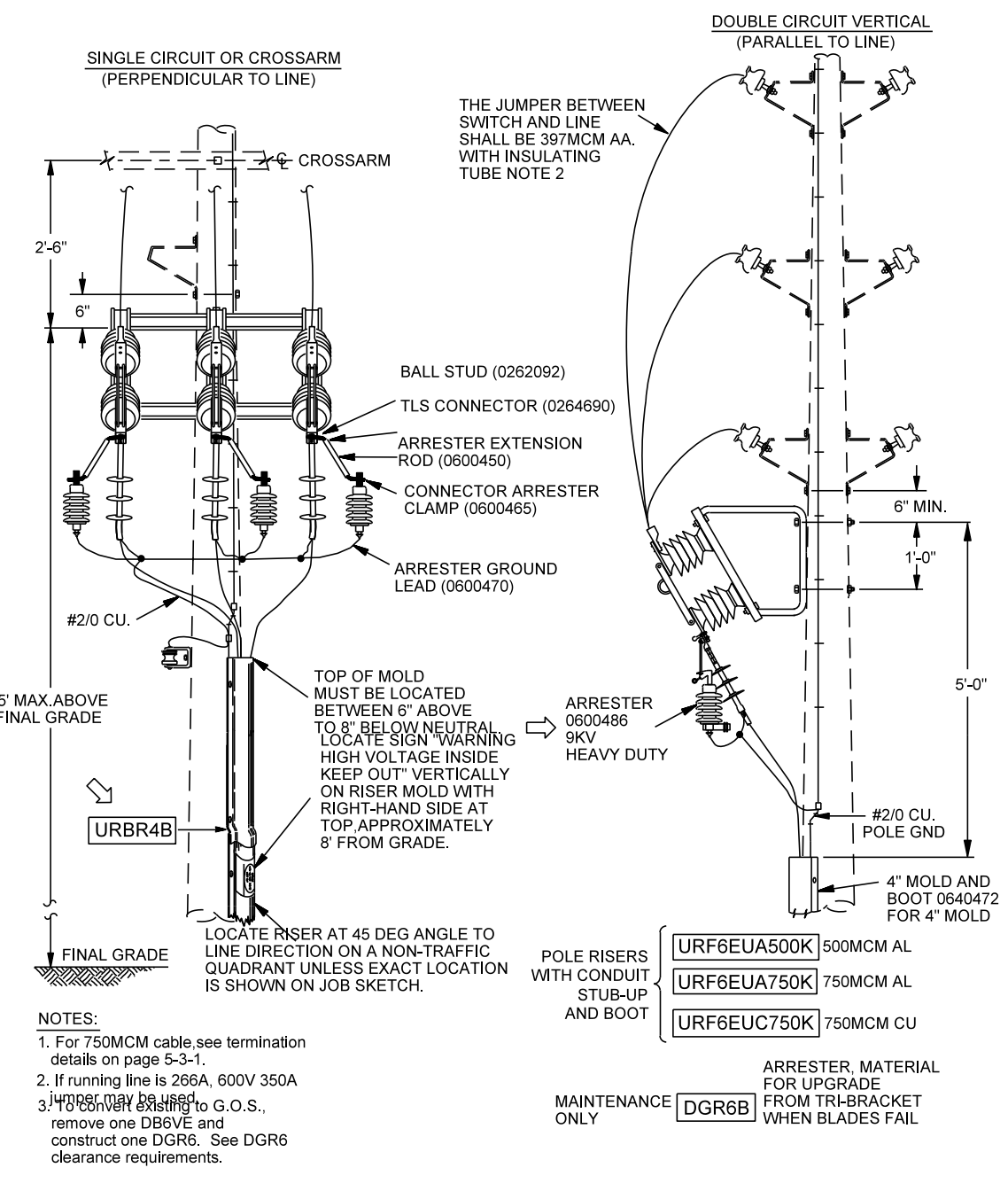
Underground Distribution Construction Standards	EXTENSIVE REVISIONS/ADDED INTEGRAL T-BODY	ISSUE DATE: 01/15/87
	SWITCHING AND FUSING FEEDER TEE TAP AND TERMINATION	REV. DATE: 10/11/10 APPROVAL: B. PRIEST
SRP	3-6-1	8513E268.DGN



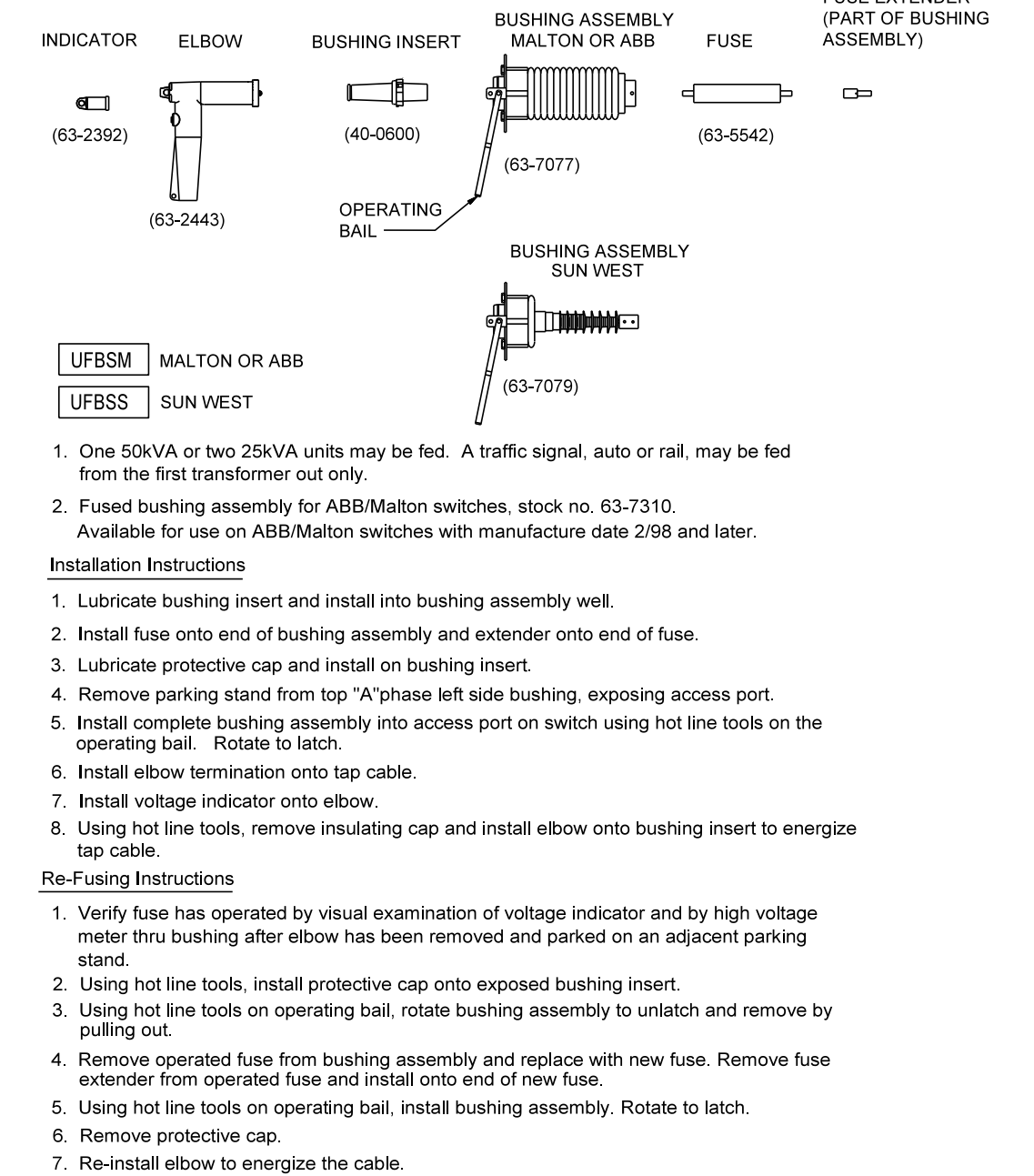
Underground Distribution Construction Standards	REV. UPDATED PAGE NUMBER. ADDED ARRESTER STOCK CODE.	ISSUE DATE: 01/01/92
	RISERS FEEDER RISER WITH GANG-OPERATED SWITCH	REV. DATE: 09/28/12 APPROVAL: B. PRIEST
SRP	5-36-1	8513E148.DGN



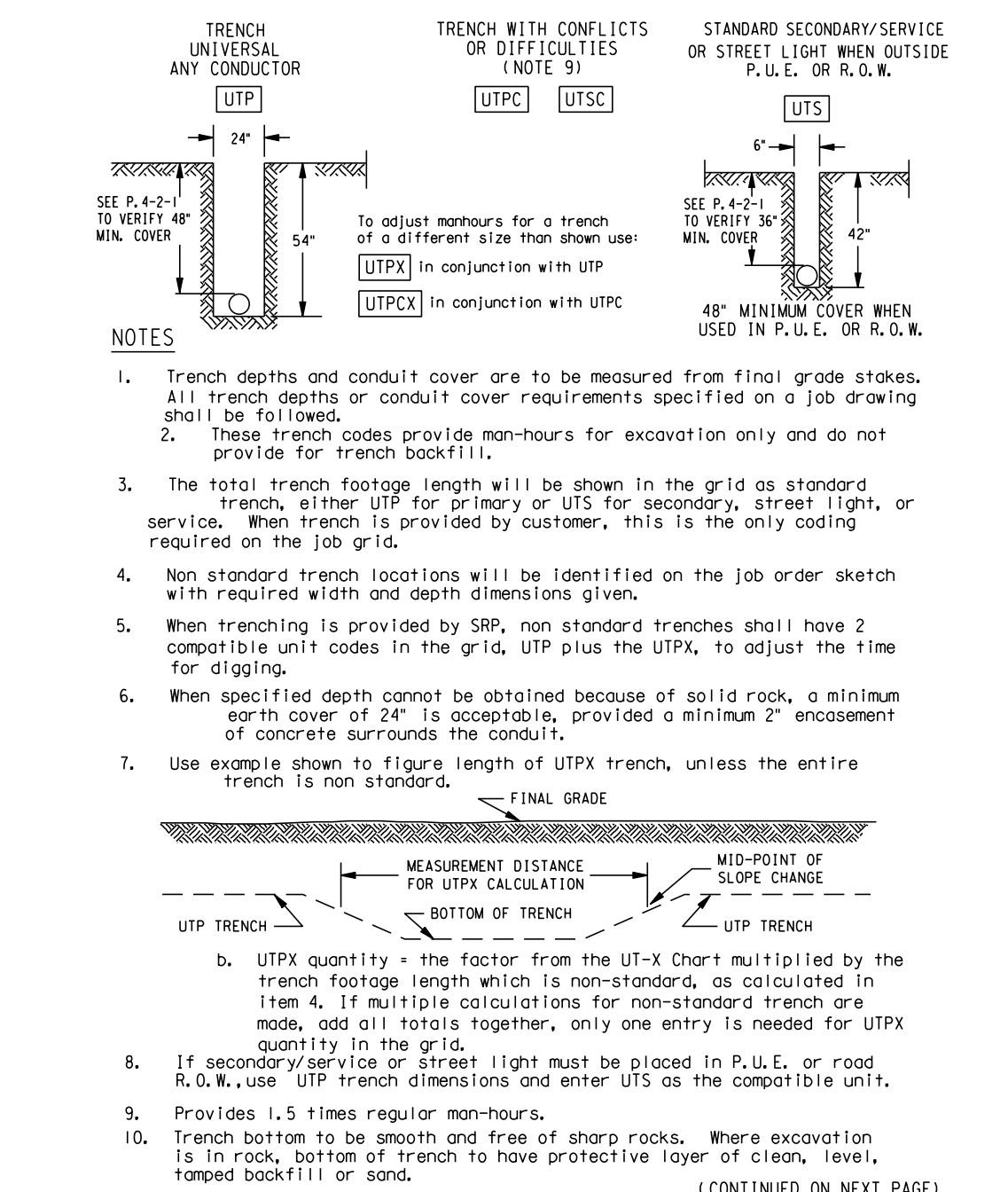
Underground Distribution Construction Standards	REV. ADDED CU TO PAGE	ISSUE DATE: 01/15/87
	SWITCHING AND FUSING FAULT INDICATOR ON LOWER FEEDER ON ALL SWITCHES	REV. DATE: 02/16/11 APPROVAL: B. PRIEST
SRP	3-8-1	8513E7.DGN



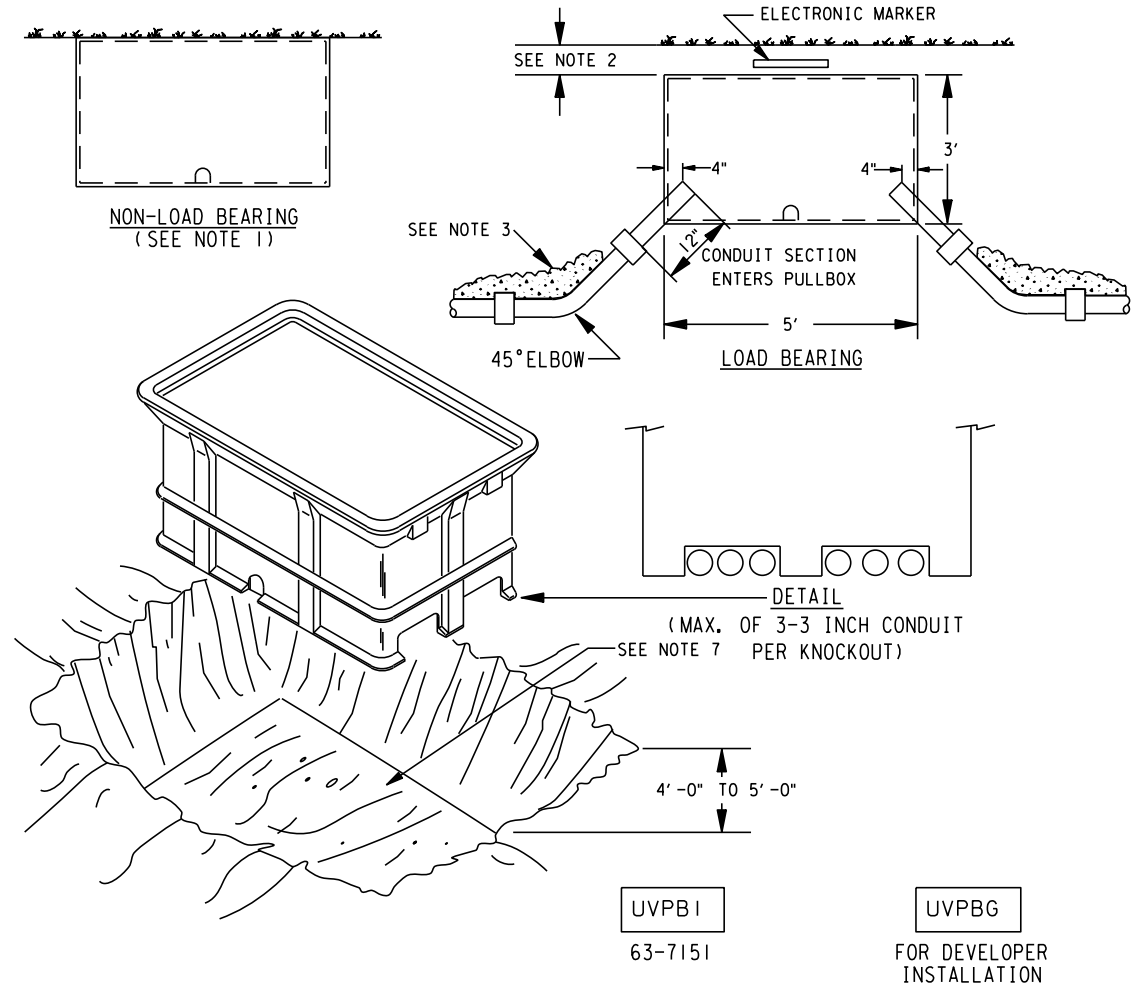
Underground Distribution Construction Standards	REV. UPDATED PAGE NUMBER. ADDED ARRESTER STOCK CODE.	ISSUE DATE: 09/09/87
	RISERS FEEDER RISER POLE MOUNTED DISCONNECTS	REV. DATE: 09/28/12 APPROVAL: B. PRIEST
SRP	5-32-1	8513E160.DGN



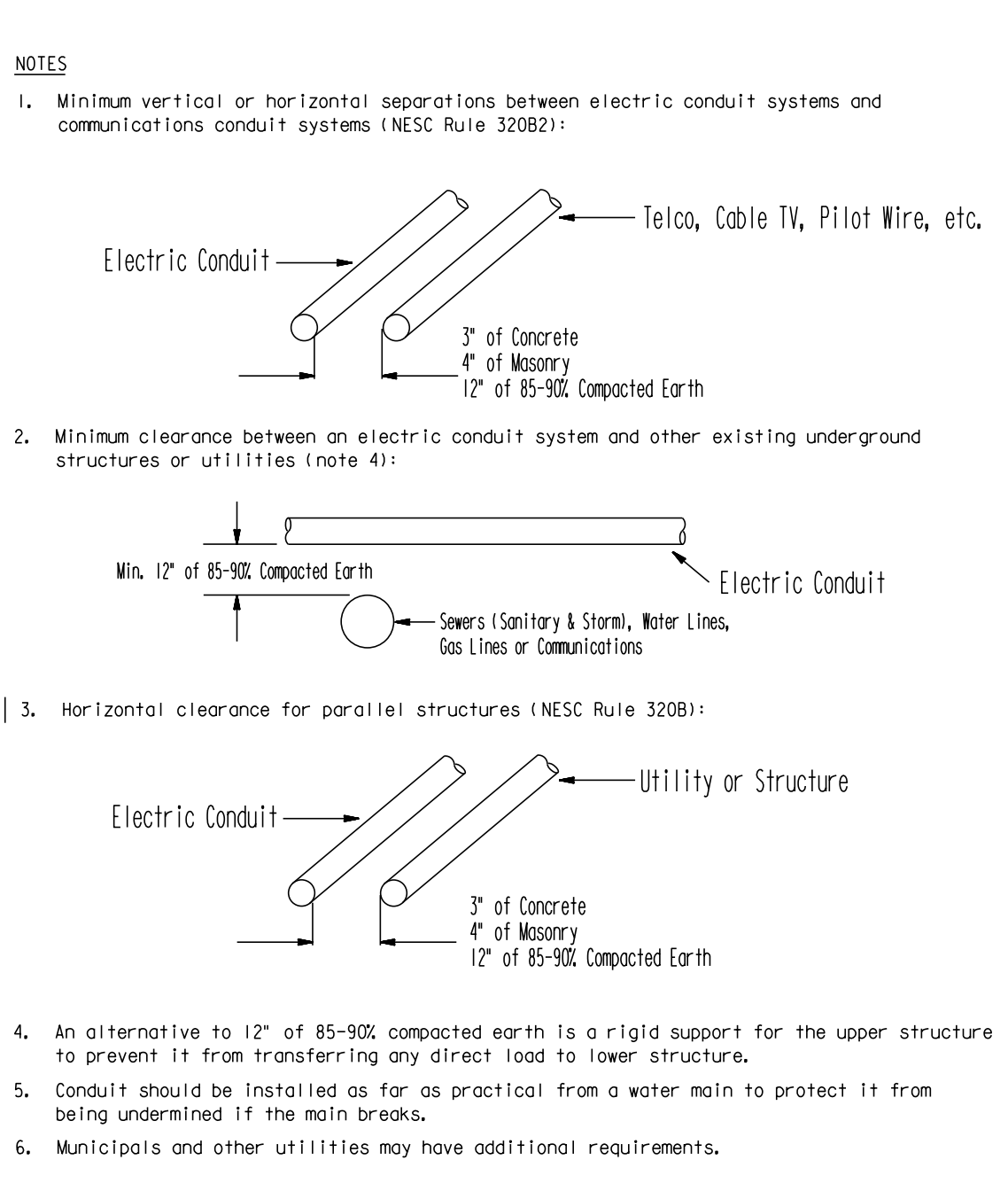
Underground Distribution Construction Standards	REV. REFORMAT	ISSUE DATE: 02/14/01
	SWITCHING AND FUSING FUSED BUSHING ASSEMBLY FOR SWITCH	REV. DATE: 04/29/10 APPROVAL: B. PRIEST
SRP	3-13-5	8513E302.DGN



Underground Distribution Construction Standards	REV. CORRECT PAGE REFERENCE	ISSUE DATE: 01/05/87
	TRENCHING EXCAVATION CODES	REV. DATE: 07/16/10 APPROVAL: B. PRIEST
SRP	6-11-1	8513E138.DGN



Underground Distribution Construction Standards	REV. REFORMAT	ISSUE DATE: 04/15/87
	VAULTS, MANHOLES AND BOXES 5x3x3 PULL BOX BELOW GRADE (LOAD BEARING)	REV. DATE: 09/10/10 APPROVAL: B. PRIEST
SRP	7-6-1	8513E101.DGN



Electric Service Specifications	REV. REFORMAT	ISSUE DATE: 04/15/88
	CLEARANCES UNDERGROUND CONDUIT	REV. DATE: 11/09/10 APPROVAL: M. MILLIES
SRP	5-14	8508E148.DGN

CONTACTS:

PRIMARY:
JASON HUGHES
PHONE: (602) 236-0986
MOBILE: (602) 516-2385

SECONDARY:
DORIAN SPEED
PHONE: (602) 236-4772
MOBILE: (602) 930-6544

CONSTRUCTION INSPECTION:
PHONE: (602) 236-0436

JOB NAME	ARS3 BROADWAY & S 7TH AVE
FIS JO	KJ2-742
40/ACRE	AC-19-16
AMP W/	T1860316
COST CENTER	22680
ROUTING CODE	DDY+7

SET OF (1) SET THE FULL WORKING SETS before you begin excavation.	ARTZONABIT 10700 Blue Ridge Rd. Suite 100 Phoenix, AZ 85028 (602) 944-1111 (602) 944-1111
SRP	

SHEET NUMBER 4 of 5

EASY, PLEASANT, AND REWARDING

02/20/14

DWG SERIES No. SRPP-1.04

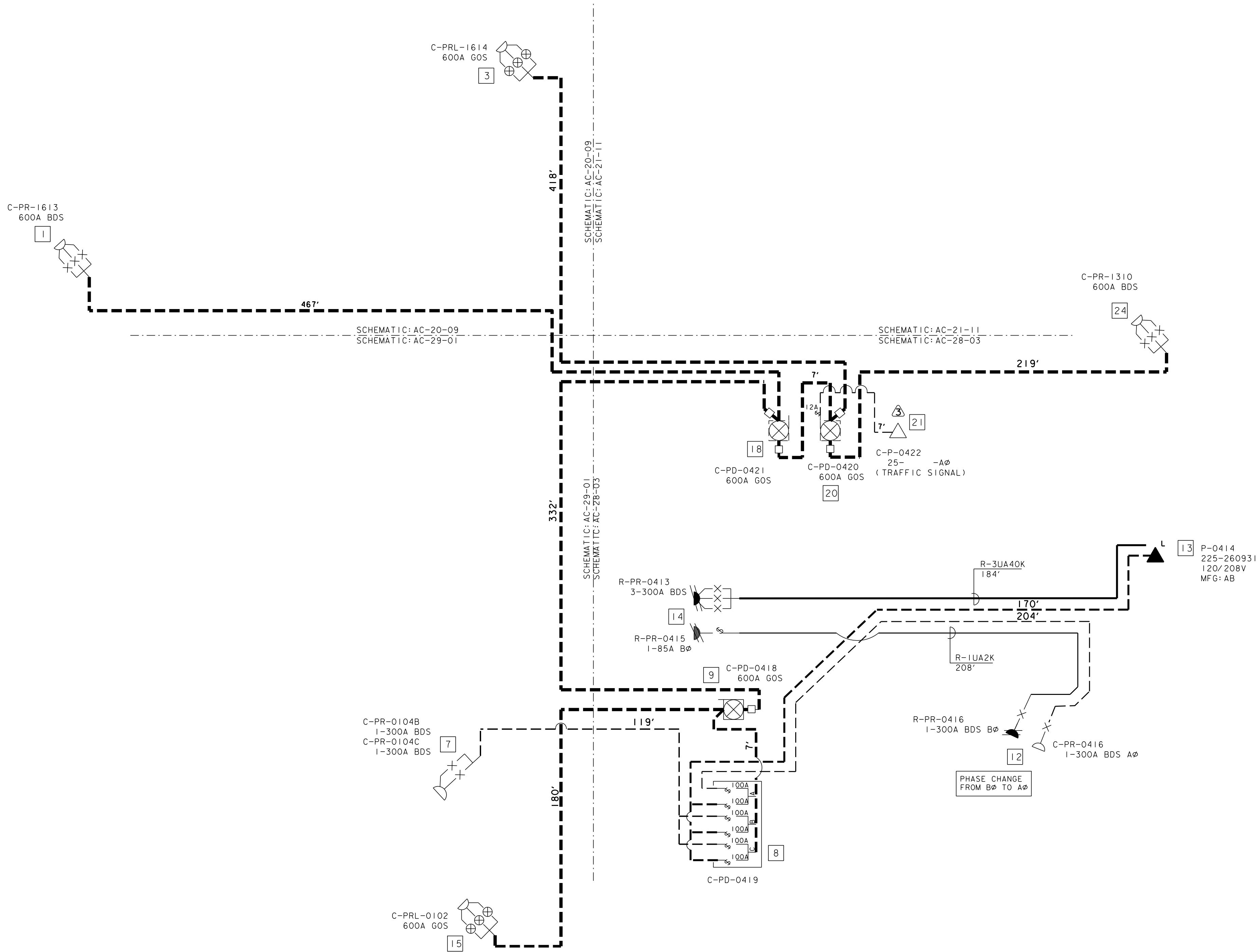
SCHEMATIC LEGEND

*UNLESS OTHERWISE INDICATED

-----C-3UA750K
-----C-3UA2K
-----C-2UA2K
-----C-1UA2K
=====E-3UA40K
=====E-1UA2

SCHEMATIC

AC-20-09 AC-28-03 AC-29-01 AC-21-11



CITY OF PHOENIX
GENERAL NOTES FOR UTILITY CONSTRUCTION

1. All utility construction shall conform to the latest Maricopa Association of Governments (MAG) Uniform Standard Specifications and Details for Public Works Construction, and the City of Phoenix Supplements to MAG.
2. All work performed in the City of Phoenix rights-of-way shall be governed by the latest edition of the City of Phoenix Traffic Barricade Manual.
3. This set of plans was reviewed by the City of Phoenix Utility Coordination Section in compliance with City requirements. However, such review shall not prevent the City from requiring correction of errors found to be in violation of any law, ordinance or City of Phoenix requirement for utility construction in the rights-of-way.
4. The contractor shall have a copy of the approved/stamped construction plans and approved traffic control plan at the project site at all times.
5. All utilities crossing streets must be bored or punched unless permission to open cut has been given in writing by the City Engineer.
6. Before starting any work on a major or collector street, the utility company shall schedule a preconstruction meeting with the City of Phoenix Street Transportation Department 5/32 s Utility Inspection Section.
7. The City of Phoenix does not warrant any quantities shown on these plans.
8. Utility companies are to coordinate alley work with the Refuse Section.
9. The utility company shall contact the City of Phoenix Street Transportation Department 5/32 s Utility Inspection Section a minimum of 48 hours in advance of starting work, giving location and permit number in order to schedule inspections.
10. All work requiring asphalt replacement, concrete replacement, or resurfacing alleys in the City of Phoenix right-of-way will require a final inspection with the utility company representative at time of completion.
11. Maintain a minimum six (6) feet horizontal separation and one (1) foot vertical from all water and sewer mains, all measurements outside to outside.

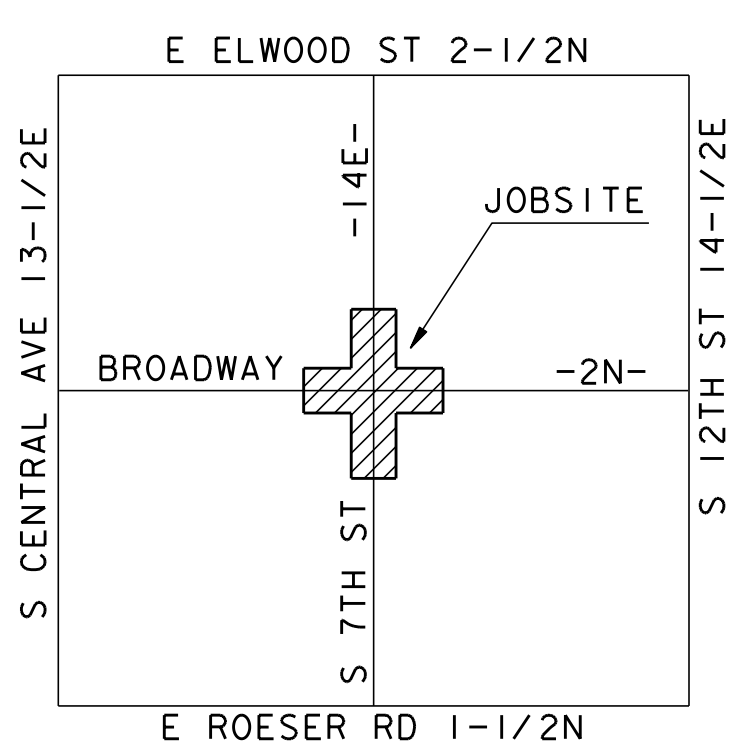
PHOENIX PERMIT BOXES

CITY OF PHOENIX
UTILITY PERMIT NO. 0000000 / 72013
DEVELOPER: SALT RIVER PROJECT
CONTACT: JASON HUGHES
PHONE NO. (602) 516-2385
DEVELOPER'S DSD NUMBER:
TOTAL TRENCH FOOTAGE: 1432'
TOTAL TRENCH FOOTAGE WITHIN CITY RIGHT-OF-WAY: 2'
INFORMATION BOX
NOTE: CUSTOMER TO MAINTAIN MINIMUM OF 6' CLEARANCE FROM ELECTRICAL TRENCH TO WATER AND SEWER MAINS.

CONTACTS:

PRIMARY:
JASON HUGHES
PHONE: (602) 236-0886
MOBILE: (602) 516-2385
SECONDARY:
DORIAN SPEED
PHONE: (602) 236-4772
MOBILE: (602) 930-6544
CONSTRUCTION INSPECTION:
PHONE: (602) 236-0436

VICINITY MAP

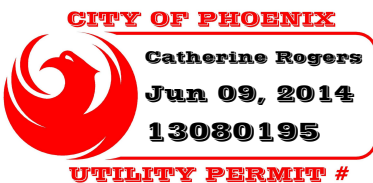


NOTICE

THIS JOB ORDER INVOLVES OVERHEAD, UNDERGROUND AND/OR SERVICES
OH# JJ2-218
UG#
SER#

FIELD INSPECTION STAMP

⑤	JAHUGHES	5/23/14	MOVE POINT 7 BACK ONTO PRIVATE PROPERTY
④	RXSCHROE	03/19/14	PRINT & ISSUED YELLOWS
③	RXSCHROE	02/14/14	SHIFTED EQUIPMENT @ PTS. 18, 19 & 22 EAST
②	RXSCHROE	01/30/14	ADJUSTED STATIONING ALONG 7TH ST
①	RXSCHROE	01/22/14	RISER LOCATION @ PT1; ADDED STATIONING-PERMIT MODIFIED DETAIL "B"; ADDED EQUIPMENT DIMENSIONS RE-NUMBERED ACTIVITY POINTS
⑥	RXSCHROE	03/04/13	JOB CREATED
REV	REVISED BY	DATE	REVISION DESCRIPTION
JOB NAME ARS1-UG BROADWAY AND 7TH ST			
F I S JO KJ2-741 MAP 1/4 SW S 21 T 1 N R 3E			
40/ACRE AC-21-13 COORDS 14-1/16E : 2-1/16N			
AMP WO T1860207 AMP VERSION			
COST CENTER 22680			
ROUTING CODE DDY+7			
SHEET NUMBER 1 OF 4			EASY, PLEASANT, AND REWARDING



CONDUIT ONE LINE LEGEND

(CONDUITS ARE AS FOLLOWS UNLESS NOTED OTHERWISE)

---	C-UK33 (FEEDER)
---	C-UK253 (PRIMARY)
---	C-UK252
---	C-UK251
---	C-UK250
---	E-UK33 (PRIMARY)
---	E-UK251

CONDUIT ONE LINE

Conduit Racking cross sections A, B, D, F, H, I, J, K, L & M = 24" x 54" SRP only trenches w/ 6-3" conduits

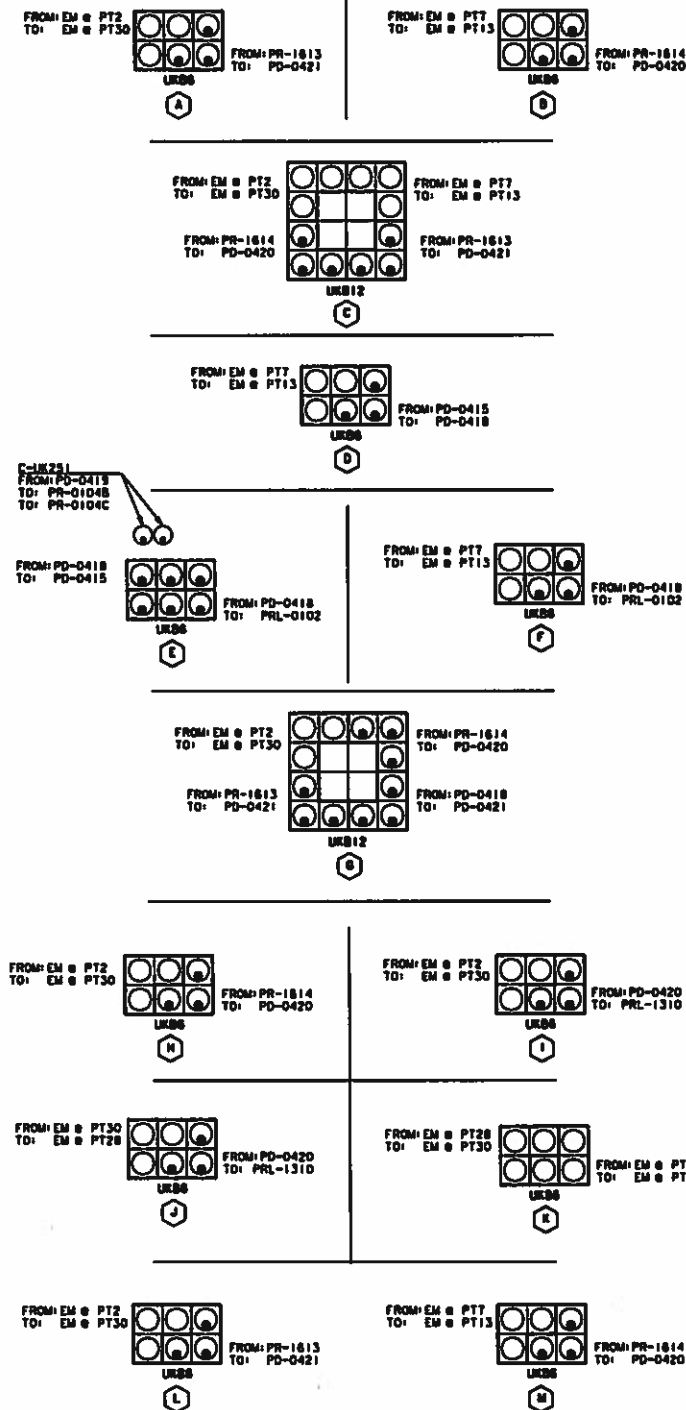
Conduit Racking cross sections C & G = 30" x 62" SRP only trenches w/ 12-3" conduits

Conduit Racking cross section E is a partial joint trench w/ CLINK & SRP conduits, +/- 9' of 134'. See trench detail below and left.

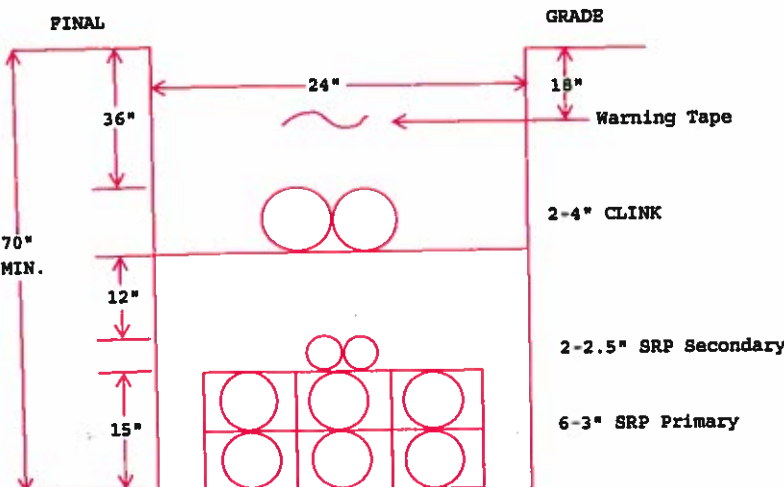
Conduit Racking cross section F that is SRP only trench = 24" x 54" +/- 35' of 134'

* See Conduit Racking Details SH. 2 of 4 and SRP Trench Details SH. 4 of 4 *

CONDUIT RACKING DETAILS



JOINT TRENCH DETAIL



CITY OF PHOENIX
Catherine Rogers
Jun 09, 2014
13080195
UTILITY PERMIT #

CONTACTS:
PRIMARY:
JASON HUGHES
PHONE: (602) 238-0888
MOBILE: (602) 518-2385
SECONDARY:
DORIAN SPEED
PHONE: (602) 238-4772
MOBILE: (602) 930-8544
CONSTRUCTION INSPECTION:
PHONE: (602) 238-0436

NOTICE
THIS JOB ORDER INVOLVES
OVERHEAD, UNDERGROUND
AND/OR SERVICES
OH# J12-218
UG#
SER#

JOB NAME: ARS1-UG BROADWAY & S 7TH ST
FIS JO: KJ2-741
40/ACRE: AC-21-13
AMP NO: T1860207
ROUTING CODE: DDY+10
MAP 1/4: SW 5 21 T 1N R 3E
COORDS: 14-1/16E : 2-1/16N
AMP VERSION:
SHEET NUMBER 2 of 4
EAST, PLEASANT, AND REMAINING

MA I N L I N E
(WORKS WITH JJ2-218)



Plan view of the intersection of S 7th St and E Broadway Rd. The diagram shows the layout of the roads, including the center turn lanes and the intersection. Stationing is provided for both roads. A traffic signal is located at the intersection. A north arrow is present in the top right corner.

S 7TH ST

E BROADWAY RD

STA: 519+40.28E
STA: 50+00.00N

C-PD-042I
600A GOS

STA: 520+25.26
43.67' RT

STA: 520+29.43
43.67' RT

C-PD-042O
600A GOS

STA: 520+32.43
43.67' RT

STA: 520+36.60
43.67' RT

C-P-0422
25-TRAFFIC SIGNAL

STA: 520+39.60
46.50' RT

STA: 520+43.10
46.50' RT

[illegible]

PRIMARY: **JASON HUGHES**
PHONE: (602) 236-0886
MOBILE: (602) 516-2385

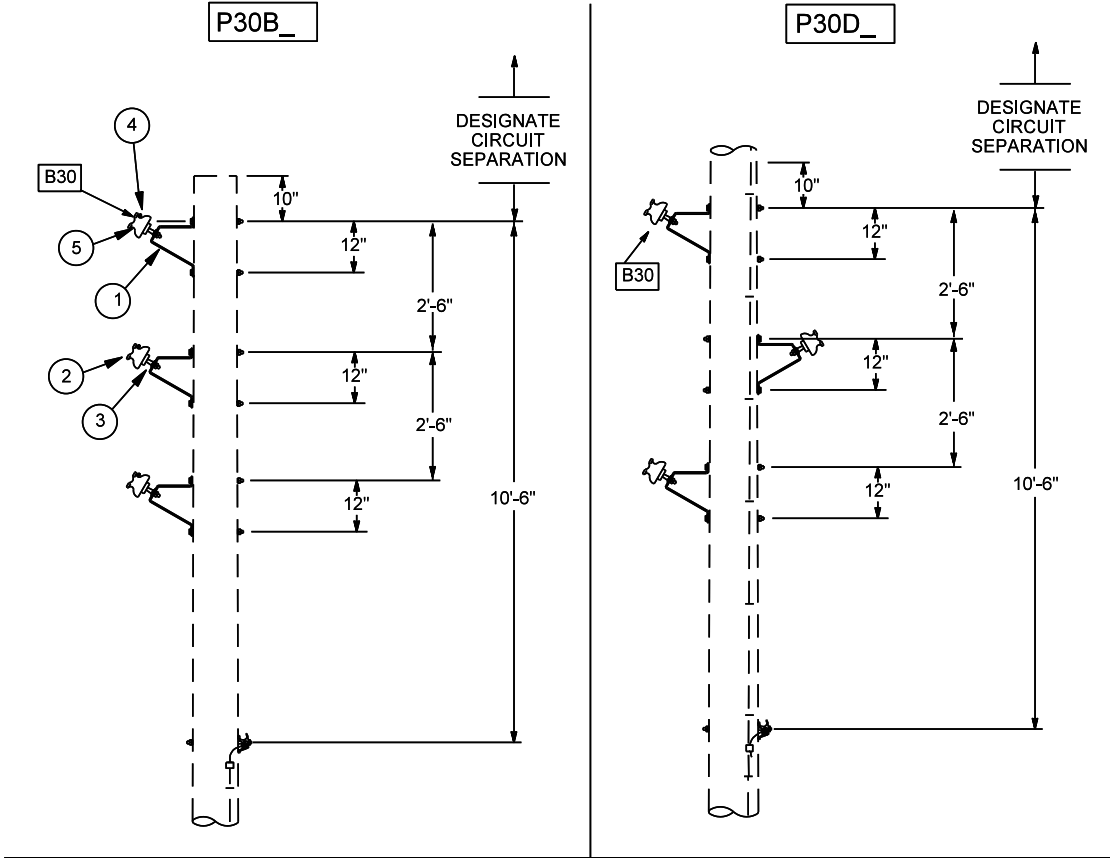
SECONDARY: **DORIAN SPEED**
PHONE: (602) 236-4772
MOBILE: (602) 930-6544

CONSTRUCTION INSPECTION
PHONE: (602) 236-0436

Call at least two full working days
before you begin excavation.

ARIZONA811
Arizona Blue Stake, Inc.

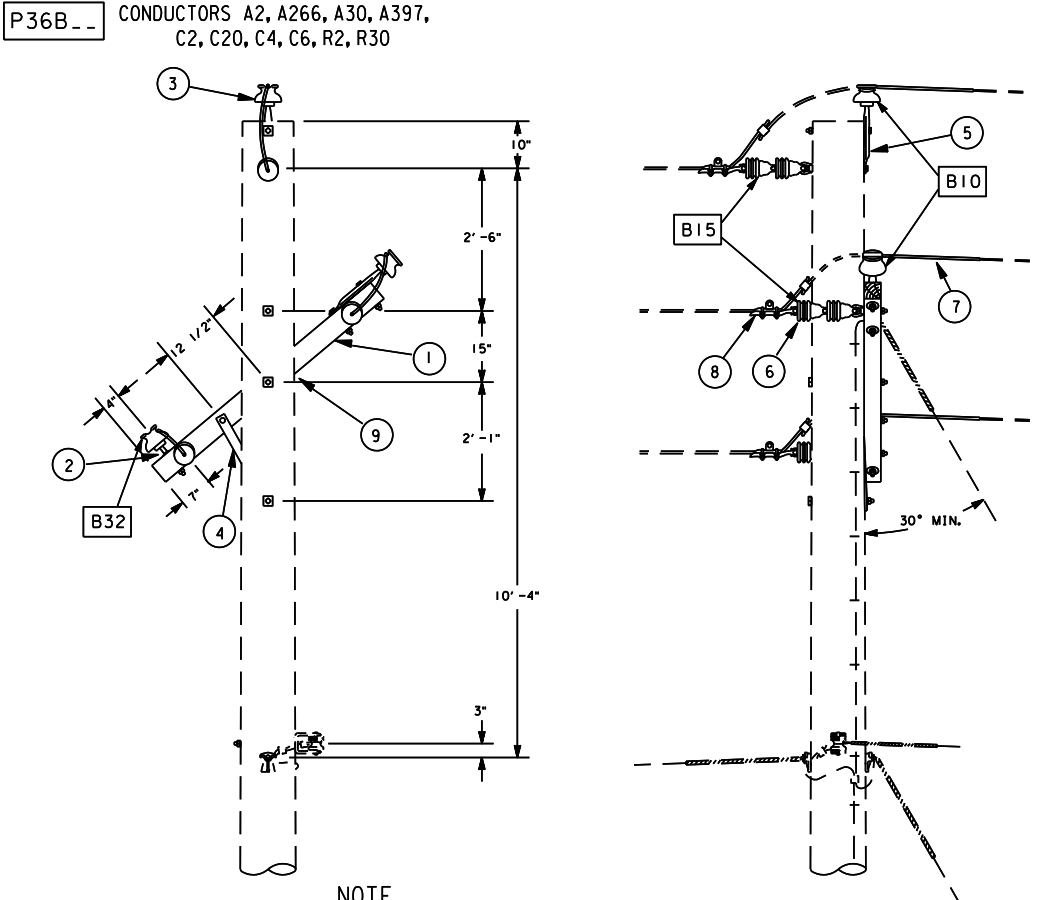
Dial 8-1-1 or 1-800-STAKE-11 (782-5348)
In Maricopa County: (602)263-1100



CONDUCTORS: A2, A266, A30, A397, AC312, C1, C2, C20, C4, C6, R2, R26, R30

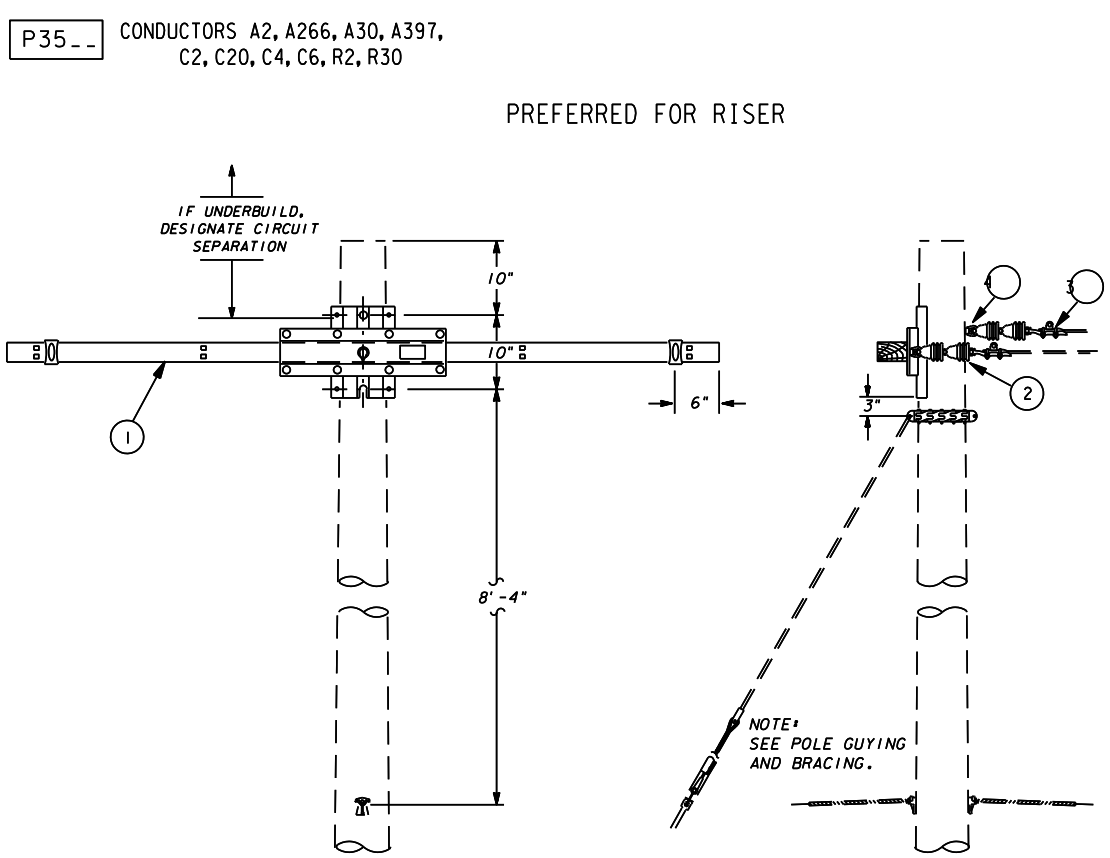
ITEM	MATERIAL DESCRIPTION	QUANTITY	STOCK NO.
1	BRACKET, SIDE MOUNT, HOT GALV. LARGE	3	5028605
2	INSULATOR, PIN, 12KV, PORCELAIN GRAY	3	5034584
3	PIN, INSULATOR, 5/8 X 1.5 IN. SHORT	3	5028641
4	LINE GUARD, VARIOUS	0 or 3	BL
5	SIDE TIE, VARIOUS	3	BPT2

Overhead Distribution Construction Standards	REV. UPDATED STOCK CODES.	ISSUE DATE: 09/30/17 REV. DATE: 05/08/13 APPROVAL: B. PRIEST
PRIMARY CONSTRUCTION UNITS THREE PHASE, TANGENT, 0 DEG.-6 DEG.	5-23-1	8512E12.DGN



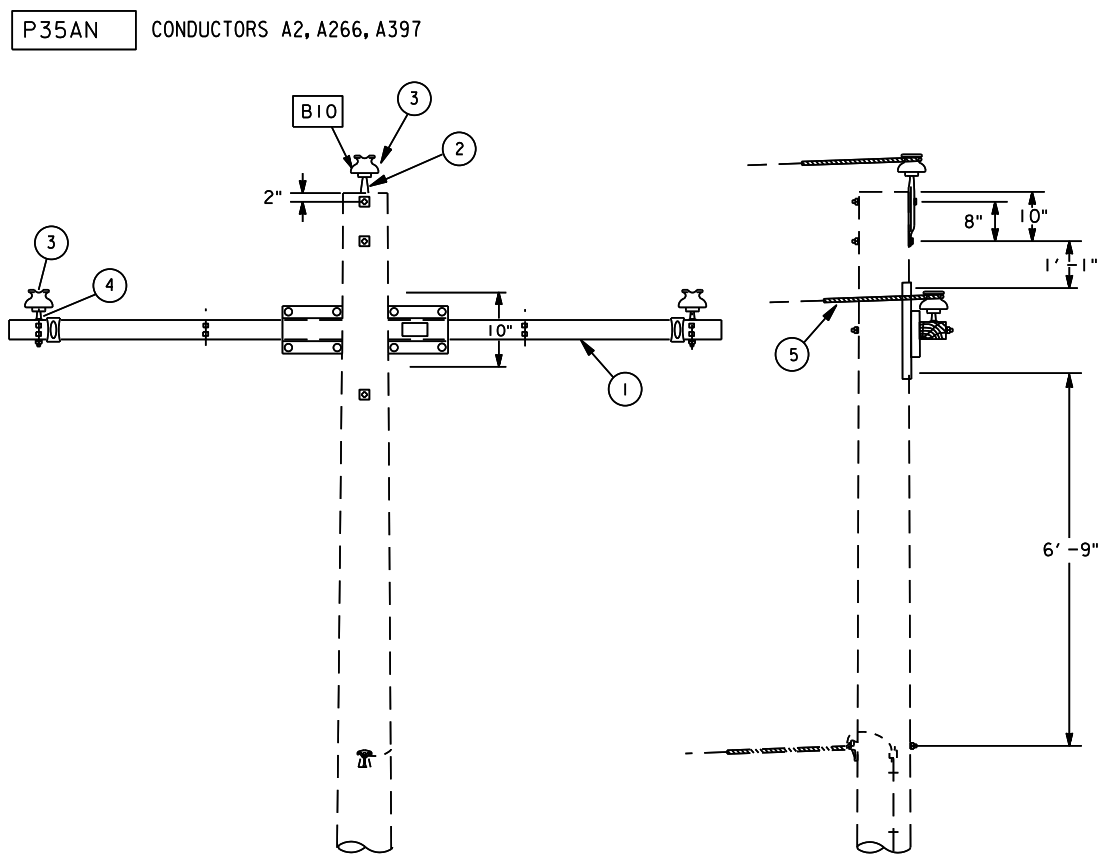
ITEM	MATERIAL DESCRIPTION	QUANTITY	STOCK NO.
1	CROSSARM, DENSE OR CLOSE GRAIN	1	58-0205
2	PIN, INSULATOR, 5/8 X 5.75 IN. LONG	1	58-7500
3	INSULATOR, PIN, 12KV, PORCELAIN GRAY	3	59-3765
4	BRACE, CROSSARM, 1.25 X 0.25 X 20 IN.	1	58-3655
5	PIN, INSULATOR, 1/8 IN. LENGTH, HOT GALV.	2	58-7290
6	INSULATOR, SUSPENSION, 6-1/4 IN., CLEVIS	6	58-4330
7	DEADEND GRIP, VARIOUS	3	BDG
8	DEADEND CLAMP, VARIOUS	3	BD
9	PLATE, GAIN, 9" X 4-1/2"	1	58-7820

Overhead Distribution Construction Standards	REV. REMOVED POLE GROUND MOLDING	ISSUE DATE: 06/22/05 REV. DATE: 05/31/11 APPROVAL: B. PRIEST
PRIMARY CONSTRUCTION UNITS THREE PHASE DEADEND 180 DEG. SLACK SPAN STAGGERED CONFIGURATION, CROSSARM	5-36-1	8512E102.DGN



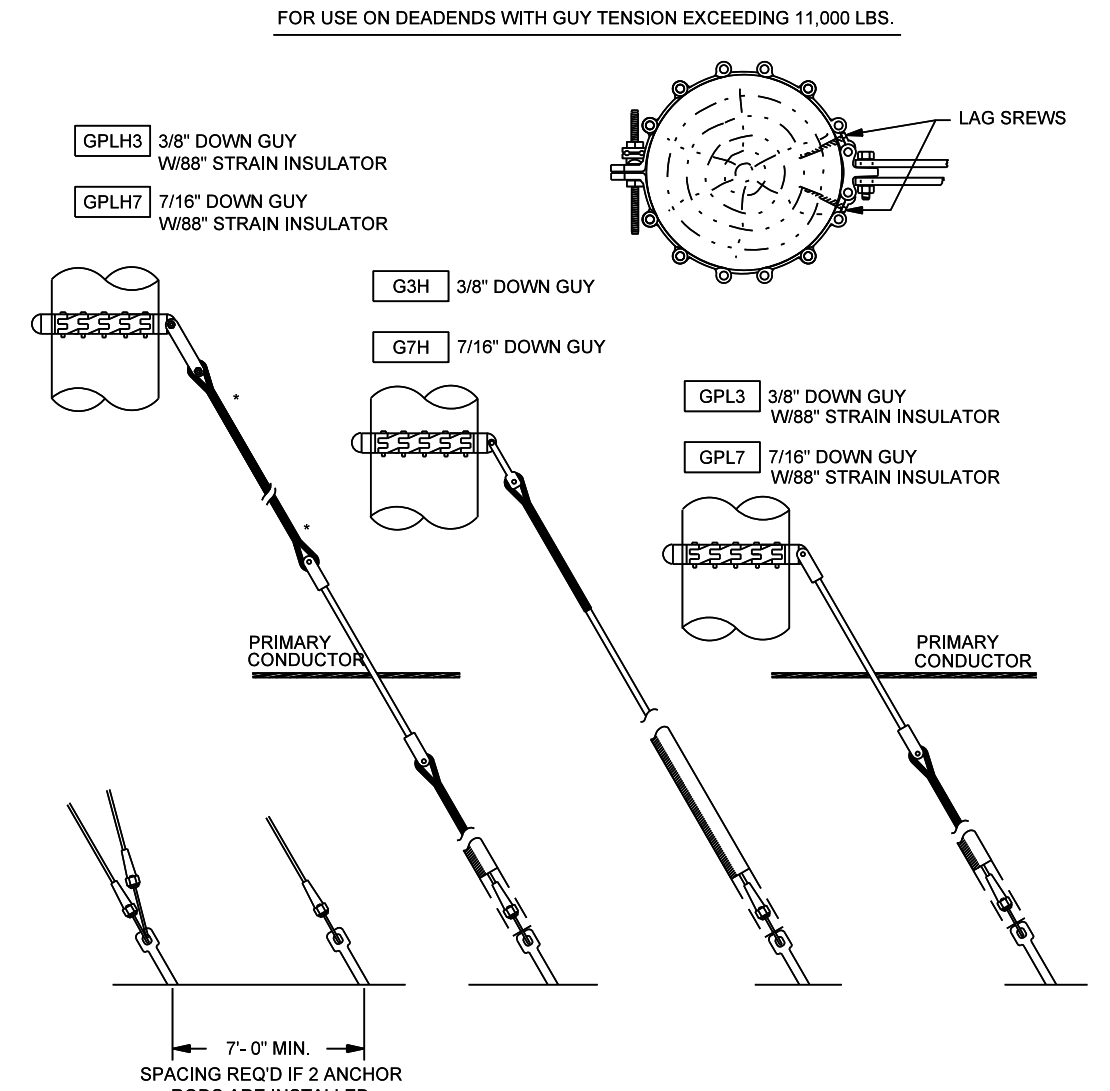
ITEM	MATERIAL DESCRIPTION	QUANTITY	STOCK NO.
1	CROSSARM, DEADEND, 8 FT.	1	58-0290
2	INSULATOR, SUSPENSION, 6-1/4 IN. CLEVIS	6	59-4330
3	DEADEND CLAMP, VARIOUS	3	BD
4	BOLT, EYE, 1-3/4" X 3" I.D.	1	58-5160

Overhead Distribution Construction Standards	REV. REFORMAT	ISSUE DATE: 06/30/17 REV. DATE: 05/31/11 APPROVAL: B. PRIEST
PRIMARY CONSTRUCTION UNITS THREE PHASE DEADEND CROSSARM	5-29-1	8512E12.DGN



ITEM	MATERIAL DESCRIPTION	QUANTITY	STOCK NO.
1	CROSSARM, 8' 3000 LB. CONDUCTOR TENSION	1	58-0290
2	PIN, INSULATOR, 18 IN. LENGTH, HOT GALV.	1	58-7290
3	INSULATOR, PIN, 12KV, PORCELAIN GRAY	3	59-3765
4	PIN, INSULATOR, 5/8 X 5.75 IN. LONG	2	58-7500
5	DEADEND GRIP, VARIOUS	3	BDG

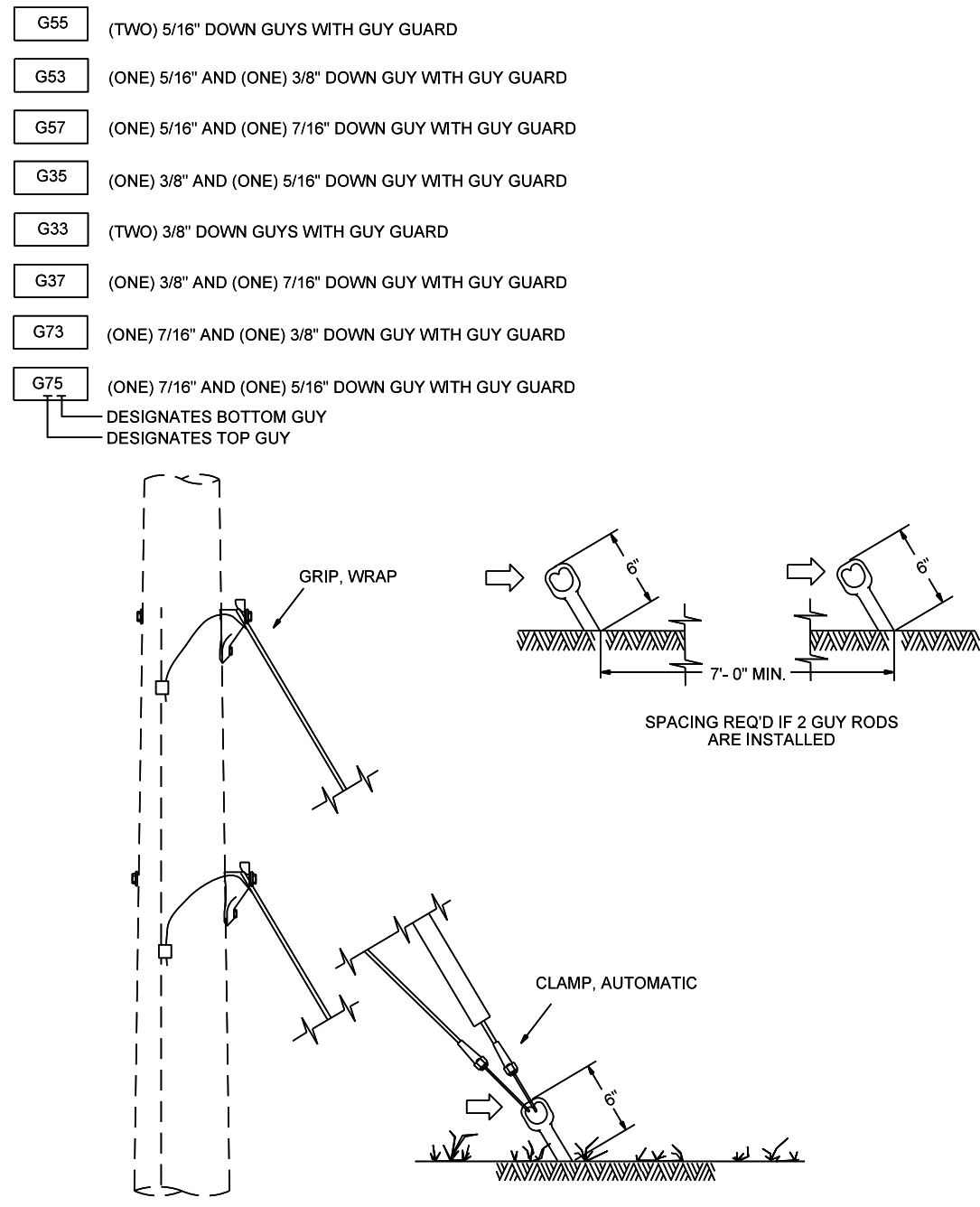
Overhead Distribution Construction Standards	REV. REMOVED POLE GROUND MOLDING	ISSUE DATE: 01/08/04 REV. DATE: 05/31/11 APPROVAL: B. PRIEST
PRIMARY CONSTRUCTION UNITS THREE PHASE DEADEND SLACK SPAN	5-31-1	8512E12.DGN



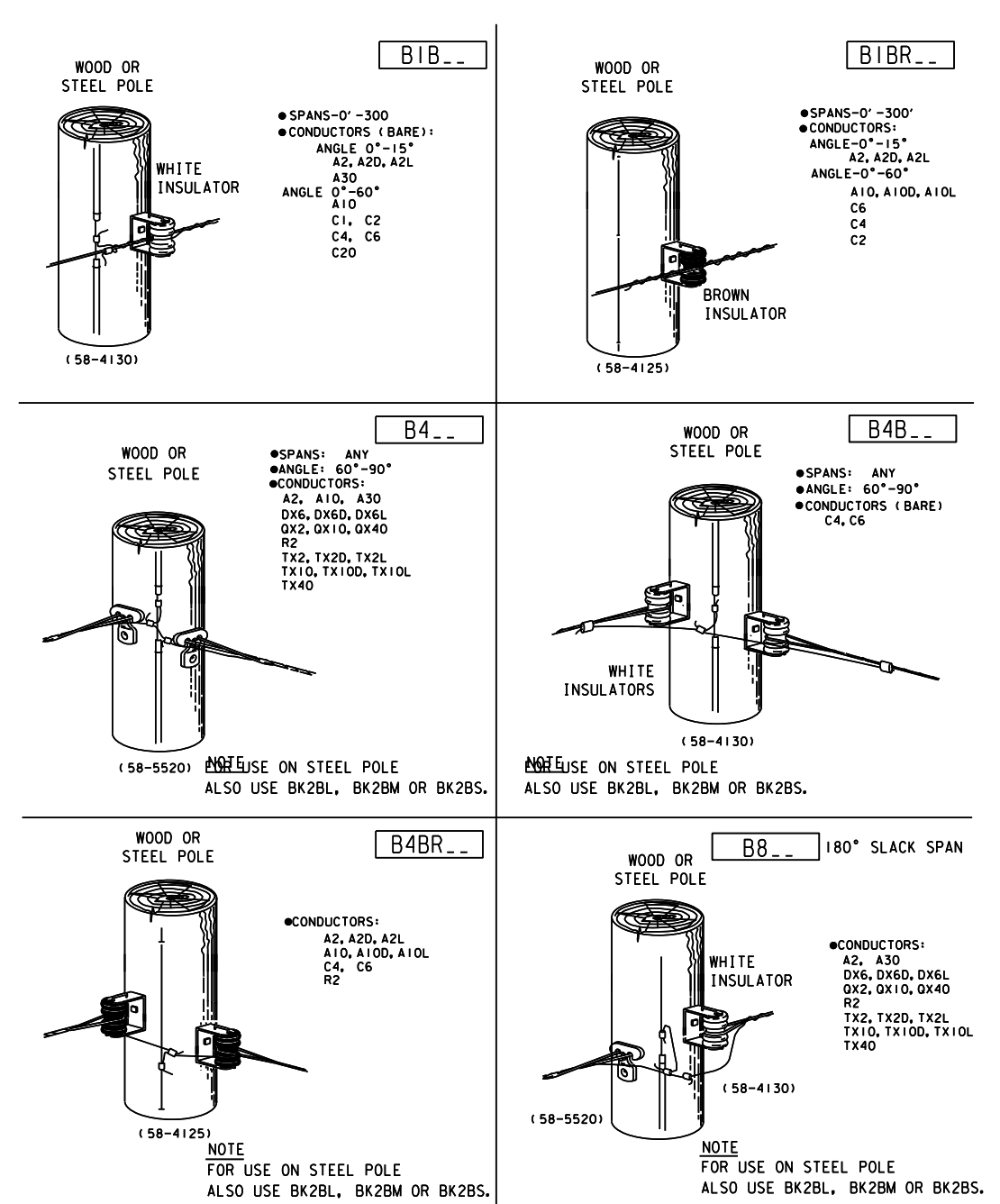
- NOTES:
- LINK TYPE POLE BANDS ARE INCLUDED WITH THESE UNITS AND ARE SIZED FOR APPROXIMATELY 10 INCH DIAMETER. LINKS MAY BE REMOVED OR ADDITIONAL LINKS. STOCK NUMBER 5027576, MAY BE ADDED IF NEEDED.
 - DOWN GUYS WITH EPOXYGLASS STRAIN INSULATORS ARE TO BE USED WHEN THE GUY WIRE NEEDS PROTECTION FROM ACCIDENTAL CONTACT WITH ENERGIZED CONDUCTORS.

*AUTOMATIC GUY CLAMPS MAY BE SUBSTITUTED WHEN SPACE IS LIMITED.

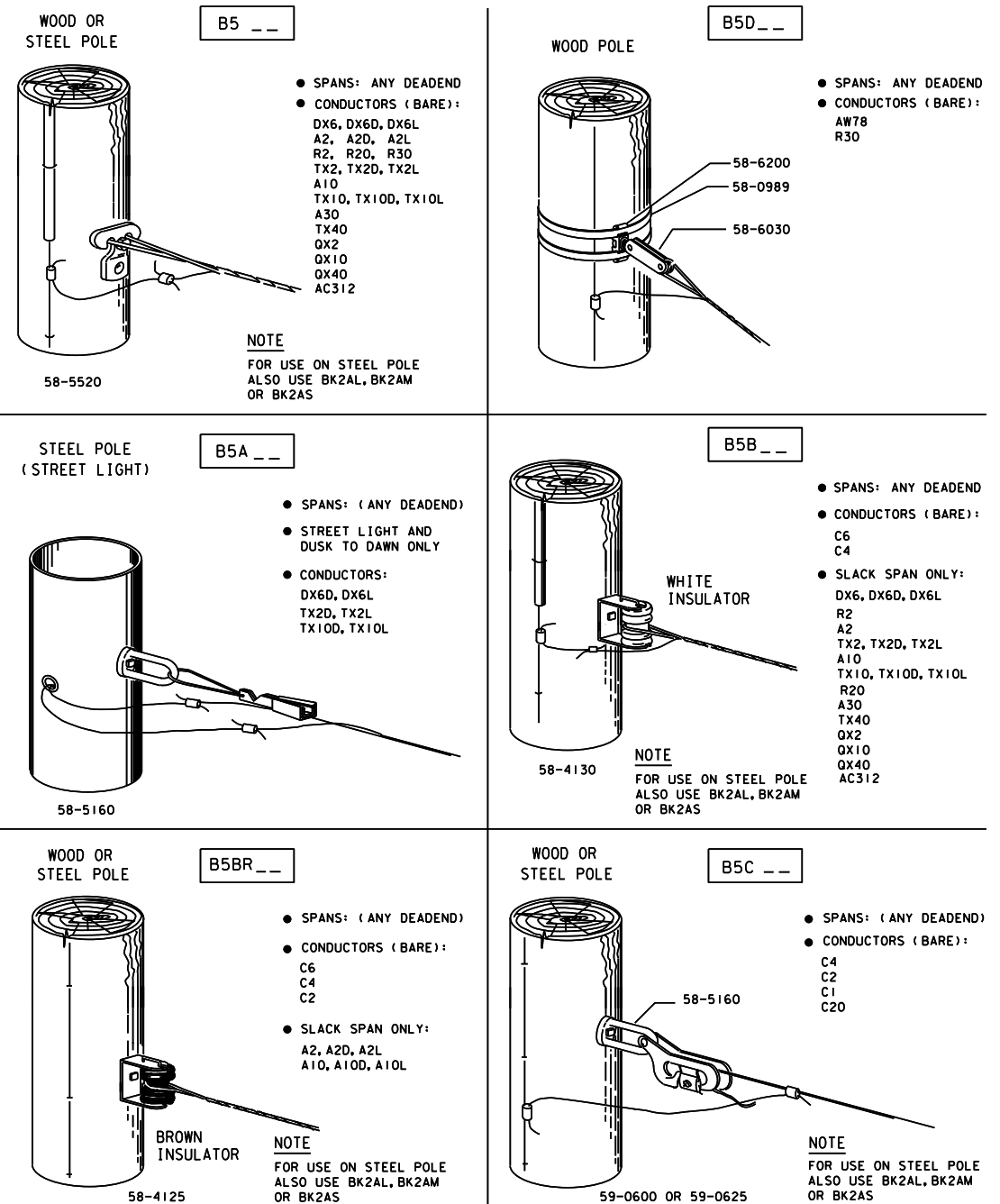
Overhead Distribution Construction Standards	REV. UPDATED STOCK CODES.	ISSUE DATE: 08/08/93 REV. DATE: 04/30/13 APPROVAL: B. PRIEST
POLE GUYING AND BRACING DOWN GUYS WITH POLE BANDS	4-16-1	8512E22.DGN



Overhead Distribution Construction Standards	REV. REMOVED BONDING CLAMPS	ISSUE DATE: 09/30/17 REV. DATE: 05/17/12 APPROVAL: B. PRIEST
POLE GUYING AND BRACING DOUBLE DOWN GUYING	4-5-1	8512E29.DGN



Overhead Distribution Construction Standards	REV. REFORMAT	ISSUE DATE: 02/01/84 REV. DATE: 08/02/11 APPROVAL: B. PRIEST
BASIC ASSEMBLY UNITS NEUTRAL AND SECONDARY ASSEMBLIES 0 DEG. - 90 DEG.	2-13-1	8512E35.DGN



Overhead Distribution Construction Standards	REV. REFORMAT	ISSUE DATE: 02/01/84 REV. DATE: 05/17/11 APPROVAL: B. PRIEST
BASIC ASSEMBLY UNITS NEUTRAL AND SECONDARY ASSEMBLIES DEADENDS	2-14-1	8512E35.DGN

CONTACTS:

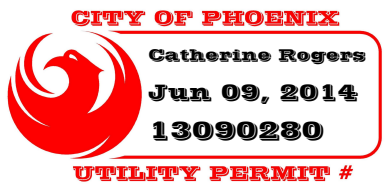
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JOB NAME ARSI-0H
FIS JO JJ2-218 MAP 1/4 13 S 21 T IN R 3E
40/ACRE AC-21-13 COORDS 14-1/16E : 2-1/16N
AMP WO T1860207 AMP VERSION

COST CENTER 22680
ROUTING CODE DDI, 5 CSI, L, G, T +10



SHEET NUMBER 2 of 2