



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST8710C161	1	77	

STANLEY CONSULTANTS INC.
CONSULTING ENGINEER
DES: IAM DR: IAM CK: MAL DATE: 11/17

CITY OF PHOENIX
STREET TRANSPORTATION DEPARTMENT
DESIGN & CONSTRUCTION MANAGEMENT DIVISION
107TH AVENUE
INDIAN SCHOOL ROAD TO CAMELBACK ROAD
PAVING IMPROVEMENTS
FEDERAL I.D. NO. PHX-0(301)D
ADOT TRACS NO. 0000 MA PHX SZ175 01C
COP PROJECT NO. ST87100161

MAYOR
 GREG STANON
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 DICICCO
DISTRICT NO 7.	MICHAEL NOWAKOWSKI
DISTRICT NO 8.	KATE GALLEGRO



2017

○ PAVING PLAN/PROFILE SHEETS

△ STORM DRAIN PLAN SHEETS

LENGTH OF PROJECT = 4,495 LF = 0.85 MILES

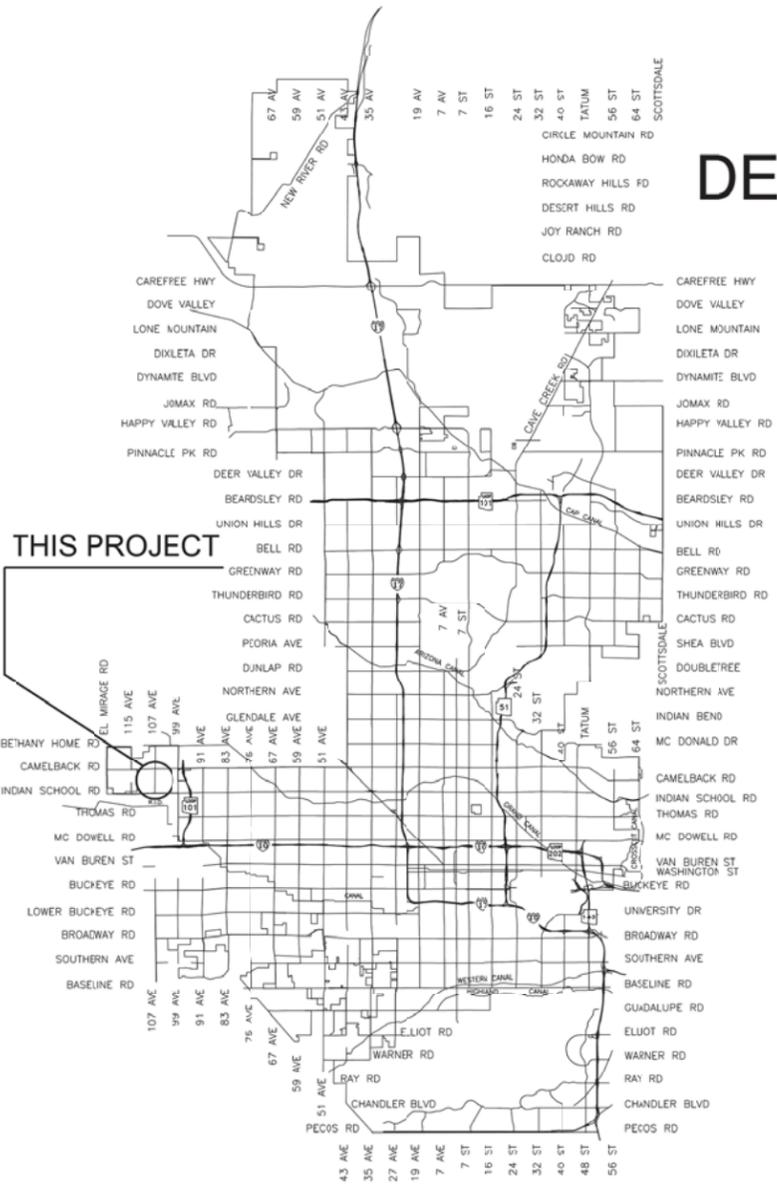
CITY BENCHMARKS:

107TH AVE AND INDIAN SCHOOL RD
PT 112 MCHD BC IN HH
N 907457.74 E 586200.63
ELEVATION 1020.72' (NGVD 29)

107TH AVE AND CAMPBELL AVE (WEST)
PT 100 MCHD BC IN HH
N 910104.41 E 586242.35
ELEVATION 1025.66' (NGVD 29)

INDEX OF SHEETS

1	COVER SHEET
2	LEGEND & NOTES
3 - 4	BID ITEM SUMMARY SHEETS
5	TYPICAL SECTIONS
6	SIDEWALK GEOMETRY TABLES
7	CURB RAMP DETAIL
8 - 18	PAVING PLANS
19	HYDRAULIC GRADE LINE
20 - 27	STORM DRAIN PLANS
28 - 30	CONNECTOR PIPE PROFILES
31 - 33	DRAINAGE DETAILS
34	STORM DRAIN DESIGN SUMMARY SHEET
35	ALTERVATE PIPE CHART
36	WATER LINE VERTICAL ALIGNMENT
37 - 41	STREET LIGHTING PLANS
42	TRAFFIC SIGNAL CONDUIT & J-BOX PLAN
43	LANDSCAPING GENERAL NOTES
44 - 54	LANDSCAPING PLANS
55	LANDSCAPING DETAIL
56	IRRIGATION GENERAL NOTES
57	IRRIGATION SUMMARY
58 - 68	IRRIGATION PLANS
69 - 72	IRRIGATION DETAILS
73 - 77	SRP STREET LIGHTING PERMIT PLANS



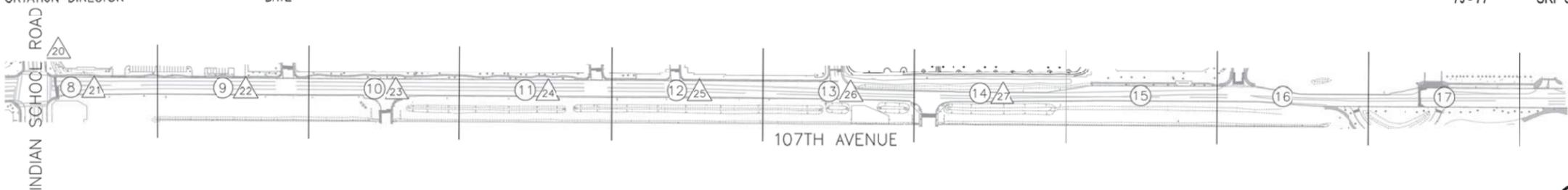

VICINITY MAP
 NTS

APPROVED  _____
 ASSISTANT STREET TRANSPORTATION DIRECTOR

APPROVED  _____
 DEPUTY STREET TRANSPORTATION DIRECTOR

1/16/18
DATE

1/12/18
DATE



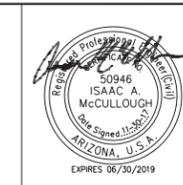
KEY MAP
 NTS

"PER CITY OF PHOENIX CITY CCDE 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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."



PROJECT NUMBER: ST87100161

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK

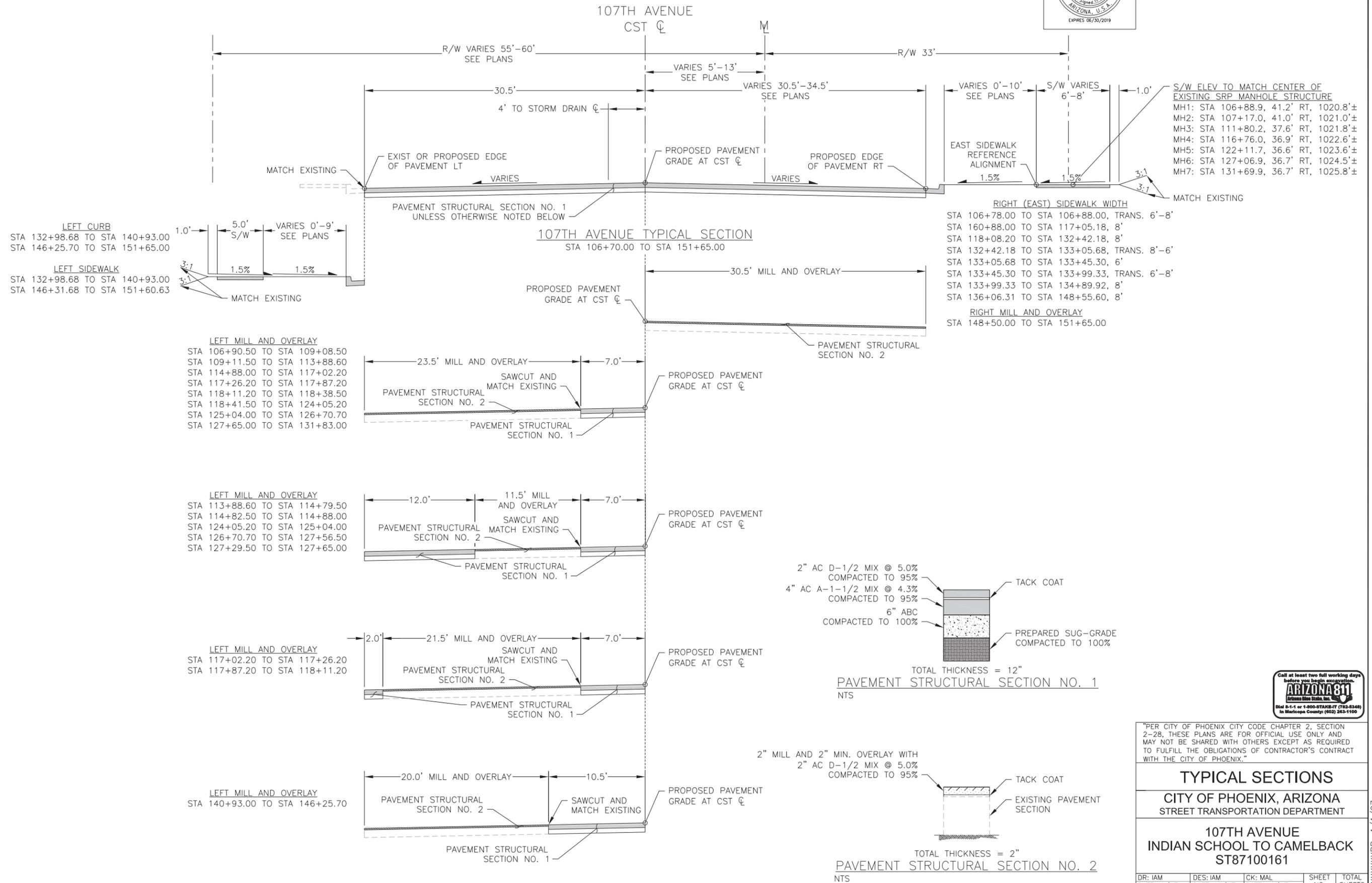


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	5	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: IAM	DR: IAM	CK: MAL	DATE: 11/17	

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.				



"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

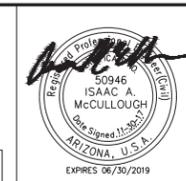
TYPICAL SECTIONS
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: IAM	DES: IAM	CK: MAL	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	5	72
SCALE: NTS				

STXXXXXXXXPP, 1/1/07

107TH AVENUE
PHOENIX STREET – MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	6	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: IAM	DR: IAM	CK: MAL	DATE: 11/17	

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

EAST SIDEWALK SEGMENT 1									
NUMBER	LENGTH	RADIUS	BEARING	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING
L1	103.52	-	N00° 54' 06"E	0+00.00	1+03.52	907535.35	586225.37	907638.86	586227.00
L2	1.74	-	N01° 45' 53"E	1+03.52	1+05.25	907638.86	586227.00	907640.59	586227.06
L3	50.07	-	N04° 17' 05"E	1+05.25	1+55.33	907640.59	586227.06	907690.53	586230.80
L4	117.31	-	N00° 53' 25"E	1+55.33	2+72.64	907690.53	586230.80	907807.82	586232.62
L5	45.26	-	N04° 02' 35"W	2+72.64	3+17.90	907807.82	586232.62	907852.97	586229.43
L6	5.35	-	N00° 17' 39"E	3+17.90	3+23.25	907852.97	586229.43	907858.32	586229.46
L7	5.36	-	N01° 30' 40"E	3+23.25	3+28.60	907858.32	586229.46	907863.68	586229.60
L8	45.16	-	N05° 51' 26"E	3+28.60	3+73.76	907863.68	586229.60	907908.60	586234.21
L9	103.21	-	N00° 54' 06"E	3+73.76	4+76.97	907908.60	586234.21	908011.80	586235.83
L10	45.26	-	N04° 02' 35"W	4+76.97	5+22.24	908011.80	586235.83	908056.95	586232.64
L11	5.35	-	N00° 17' 39"E	5+22.24	5+27.59	908056.95	586232.64	908062.30	586232.67
L12	5.36	-	N01° 30' 40"E	5+27.59	5+32.94	908062.30	586232.67	908067.65	586232.81
L13	45.16	-	N05° 51' 26"E	5+32.94	5+78.10	908067.65	586232.81	908112.57	586237.42
L14	126.28	-	N00° 55' 14"E	5+78.10	7+04.38	908112.57	586237.42	908238.83	586239.45
L15	30.00	-	N00° 54' 06"E	7+04.38	7+34.38	908238.83	586239.45	908268.83	586239.92
L16	42.12	-	N00° 54' 06"E	7+34.38	7+76.50	908268.83	586239.92	908310.94	586240.58
L17	30.00	-	N00° 54' 06"E	7+76.50	8+06.50	908310.94	586240.58	908340.94	586241.05
L18	52.80	-	N00° 51' 25"E	8+06.50	8+59.29	908340.94	586241.05	908393.73	586241.84
L19	45.28	-	N04° 02' 32"W	8+59.29	9+04.58	908393.73	586241.84	908438.90	586238.65
L20	5.35	-	N00° 17' 39"E	9+04.58	9+09.93	908438.90	586238.65	908444.25	586238.68
L21	5.36	-	N01° 30' 40"E	9+09.93	9+15.28	908444.25	586238.68	908449.60	586238.82
L22	45.18	-	N05° 51' 22"E	9+15.28	9+60.46	908449.60	586238.82	908494.55	586243.43
L23	67.83	-	N00° 56' 11"E	9+60.46	10+28.28	908494.55	586243.43	908562.36	586244.54

WEST SIDEWALK SEGMENT 1									
NUMBER	LENGTH	RADIUS	BEARING	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING
C4	12.713	100.00	N02° 44' 25"W	0+75.93	0+88.64	910232.72	586198.82	910245.41	586198.21
C5	12.077	95.00	N02° 44' 25"W	1+39.33	1+51.40	910295.78	586192.58	910307.83	586192.00
L63	75.93	-	N00° 54' 06"E	0+00.00	0+75.93	910156.80	586197.63	910232.72	586198.82
L64	50.69	-	N06° 22' 56"W	0+88.64	1+39.33	910245.41	586198.21	910295.78	586192.58
L65	33.07	-	N00° 54' 06"E	1+51.40	1+84.47	910307.83	586192.00	910340.90	586192.52
L66	36.00	-	N00° 54' 06"E	1+84.47	2+20.47	910340.90	586192.52	910376.90	586193.09
L67	54.74	-	N00° 54' 06"E	2+20.47	2+75.21	910376.90	586193.09	910431.63	586193.95
L68	36.00	-	N00° 54' 06"E	2+75.21	3+11.21	910431.63	586193.95	910467.62	586194.52
L69	1.98	-	N00° 54' 06"E	3+11.21	3+13.19	910467.62	586194.52	910469.60	586194.55
L70	30.34	-	N07° 31' 12"E	3+13.19	3+43.53	910469.60	586194.55	910499.68	586198.52
L71	451.38	-	N01° 51' 29"E	3+43.53	7+94.91	910499.68	586198.52	910950.82	586213.15

WEST SIDEWALK SEGMENT 2									
NUMBER	LENGTH	RADIUS	BEARING	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING
C6	18.761	100.00	N04° 28' 21"W	0+09.00	0+27.76	911498.49	586223.77	911517.16	586222.31
C7	17.823	95.00	N04° 28' 21"W	0+41.59	0+59.41	911530.78	586219.94	911548.53	586218.56
L72	9.00	-	N00° 54' 08"E	0+00.00	0+09.00	911489.49	586223.63	911498.49	586223.77
L73	13.82	-	N09° 50' 50"W	0+27.76	0+41.59	911517.16	586222.31	911530.78	586219.94
L74	469.99	-	N00° 54' 08"E	0+59.41	5+29.40	911548.53	586218.56	912018.46	586225.96

EAST SIDEWALK SEGMENT 2									
NUMBER	LENGTH	RADIUS	BEARING	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING
L24	148.64	-	N00° 52' 55"E	0+00.00	1+48.64	908665.37	586246.15	908813.99	586248.44
L25	44.97	-	N04° 03' 26"W	1+48.64	1+93.61	908813.99	586248.44	908858.85	586245.26
L26	5.35	-	N00° 17' 39"E	1+93.61	1+98.96	908858.85	586245.26	908864.20	586245.29
L27	5.36	-	N01° 30' 40"E	1+98.96	2+04.31	908864.20	586245.29	908869.55	586245.43
L28	44.88	-	N05° 52' 15"E	2+04.31	2+49.19	908869.55	586245.43	908914.20	586250.02
L29	95.75	-	N00° 54' 08"E	2+49.19	3+44.95	908914.20	586250.02	909009.94	586251.53
L30	45.00	-	N04° 03' 22"W	3+44.95	3+89.95	909009.94	586251.53	909054.83	586248.34
L31	5.35	-	N00° 17' 39"E	3+89.95	3+95.30	909054.83	586248.34	909060.17	586248.37
L32	5.36	-	N01° 30' 40"E	3+95.30	4+00.65	909060.17	586248.37	909065.53	586248.51
L33	44.91	-	N05° 52' 10"E	4+00.65	4+45.56	909065.53	586248.51	909110.20	586253.10
L34	146.11	-	N00° 55' 18"E	4+45.56	5+91.67	909110.20	586253.10	909256.29	586255.45
L35	30.00	-	N00° 54' 06"E	5+91.67	6+21.67	909256.29	586255.45	909286.29	586255.93
L36	42.13	-	N00° 54' 06"E	6+21.67	6+63.80	909286.29	586255.93	909328.41	586256.59
L37	30.00	-	N00° 54' 06"E	6+63.80	6+93.80	909328.41	586256.59	909358.41	586257.06
L38	30.43	-	N00° 48' 33"E	6+93.80	7+24.23	909358.41	586257.06	909388.83	586257.49
L39	45.06	-	N04° 03' 12"W	7+24.23	7+69.28	909388.83	586257.49	909433.78	586254.31
L40	5.35	-	N00° 17' 39"E	7+69.28	7+74.63	909433.78	586254.31	909439.13	586254.33
L41	5.36	-	N01° 30' 40"E	7+74.63	7+79.99	909439.13	586254.33	909444.48	586254.48
L42	44.97	-	N05° 52' 00"E	7+79.99	8+24.96	909444.48	586254.48	909489.22	586259.07
L43	31.67	-	N00° 59' 25"E	8+24.96	8+56.63	909489.22	586259.07	909520.88	586259.62
L44	29.89	-	N00° 54' 06"E	8+56.63	8+86.52	909520.88	586259.62	909550.77	586260.09
L45	37.12	-	N00° 54' 06"E	8+86.52	9+23.64	909550.77	586260.09	909587.88	586260.67
L46	30.00	-	N00° 54' 06"E	9+23.64	9+53.64	909587.88	586260.67	909617.88	586261.15
L47	175.84	-	N00° 53' 12"E	9+53.64	11+29.48	909617.88	586261.15	909793.70	586263.87
L48	45.14	-	N04° 02' 57"W	11+29.48	11+74.62	909793.70	586263.87	909838.73	586260.68
L49	5.35	-	N00° 17' 39"E	11+74.62	11+79.97	909838.73	586260.68	909844.08	586260.71
L50	5.36	-	N01° 30' 40"E	11+79.97	11+85.33	909844.08	586260.71	909849.43	586260.85
L51	45.07	-	N05° 51' 42"E	11+85.33	12+30.40	909849.43	586260.85	909894.27	586265.45
L52	138.75	-	N00° 55' 14"E	12+30.40	13+69.15	909894.27	586265.45	910033.00	586267.68
L53	30.00	-	N00° 54' 06"E	13+69.15	13+99.15	910033.00	586267.68	910063.00	586268.15
L54	69.68	-	N00° 54' 03"E	13+99.15	14+68.83	910063.00	586268.15	910132.67	586269.25
L55	29.97	-	N00° 54' 03"E	14+68.83	14+98.80	910132.67	586269.25	910162.64	586269.72
L56	184.26	-	N00° 54' 03"E	14+98.80	16+83.07	910162.64	586269.72	910346.88	586272.62

EAST SIDEWALK SEGMENT 3									
NUMBER	LENGTH	RADIUS	BEARING	START STATION	END STATION	START NORTHING	START EASTING	END NORTHING	END EASTING
C1	43.753	94.00	N14° 14' 13"E	0+37.97	0+81.73	910501.27	586272.06	910543.30	586282.72
C2	8.520	67.00	N02° 44' 25"W	11+46.05	11+54.57	911607.39	586303.49	911615.90	586303.08
C3	10.350	83.00	N02° 48' 40"W	12+24.19	12+34.54	911685.09	586295.34	911695.42	586294.83
L57	37.97	-	N00° 54' 09"E	0+00.00	0+37.97	910463.30	586271.46	910501.27	586272.06
L58	165.17	-	N00° 54' 09"E	0+81.73	2+46.90	910543.30	586282.72	910708.45	586285.32
L59	240.24	-	N01° 51' 24"E	2+46.90	4+87.14	910708.45	586285.32	910948.57	586293.11
L60	658.91	-	N00° 54' 09"E	4+87.14	11+46.05	910948.57	586293.11	911607.39	586303.49
L61	69.62	-	N06° 23' 00"W	11+54.57	12+24.19	911615.90	586303.08	911685.09	586295.34
L62	26.29	-	N00° 45' 40"E	12+34.54	12+60.83	911695.42	586294.83	911721.71	586295.18



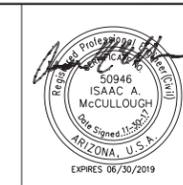
"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

SIDEWALK GEOMETRY TABLES
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: IAM	DES: IAM	CK: MAL	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	6	72
SCALE: NTS				

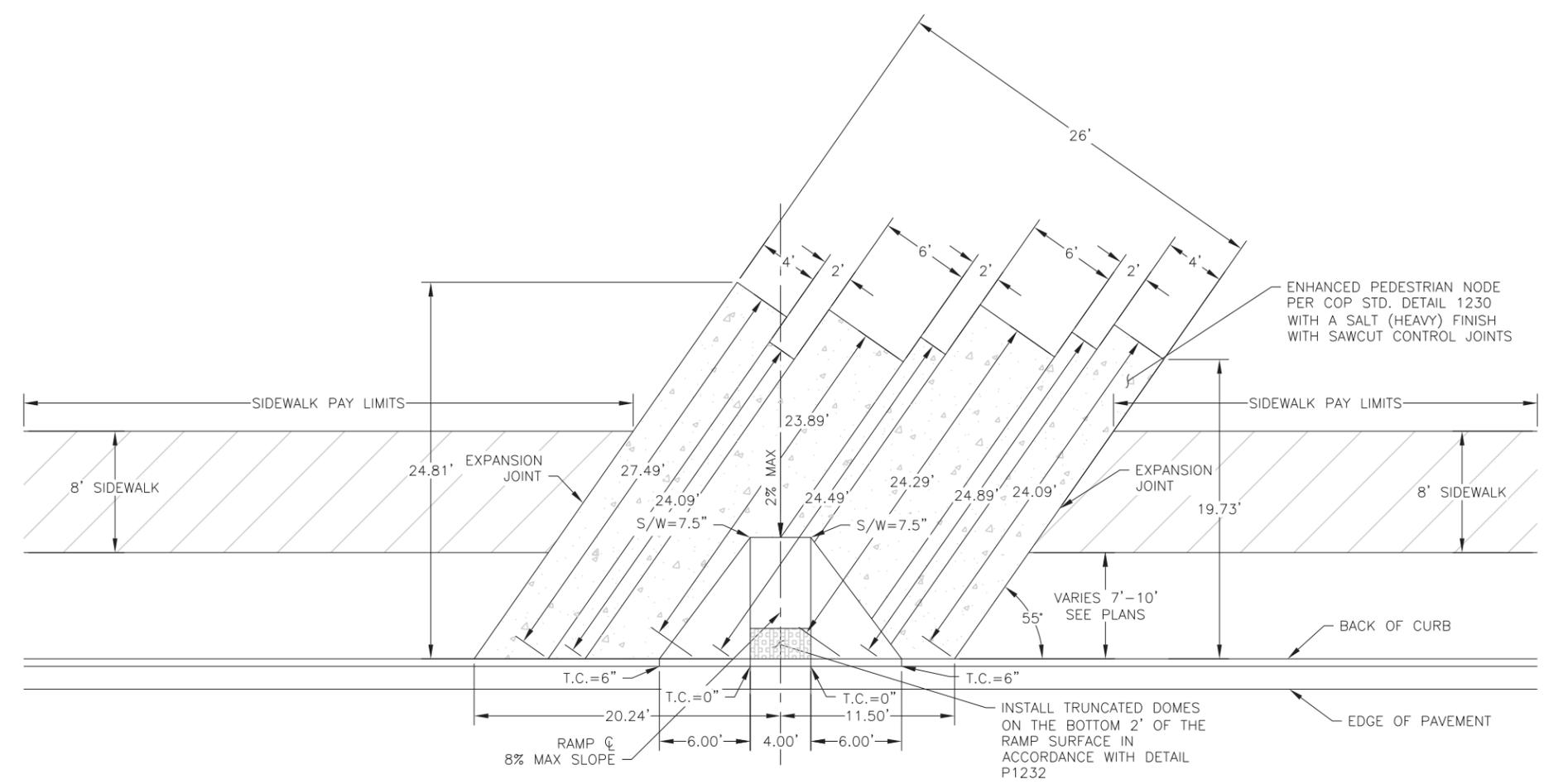
ST87100161.P. 1/1/07

107TH AVENUE
 PHOENIX STREET - MARICOPA CO.
 INDIAN SCHOOL TO CAMELBACK



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	7	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: IAM	DR: IAM	CK: MAL	DATE: 11/17	

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



NOTES

- CONTROL ELEVATIONS SHOWN ARE IN RELATION TO THE GUTTER ELEVATION = 0".
- CLASS "A" CONCRETE TO BE USED AS PER SECTION 725.
- EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER A.S.T.M. D-1751.
- UNIT OF MEASUREMENT SHALL BE EACH
- TYPICAL AREA = 683 SF
- SKEW DIRECTION VARIES, SEE PAVING PLANS

CURB RAMP DETAIL
 MODIFIED DET. P1241-2



"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

CURB RAMP DETAIL
 CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

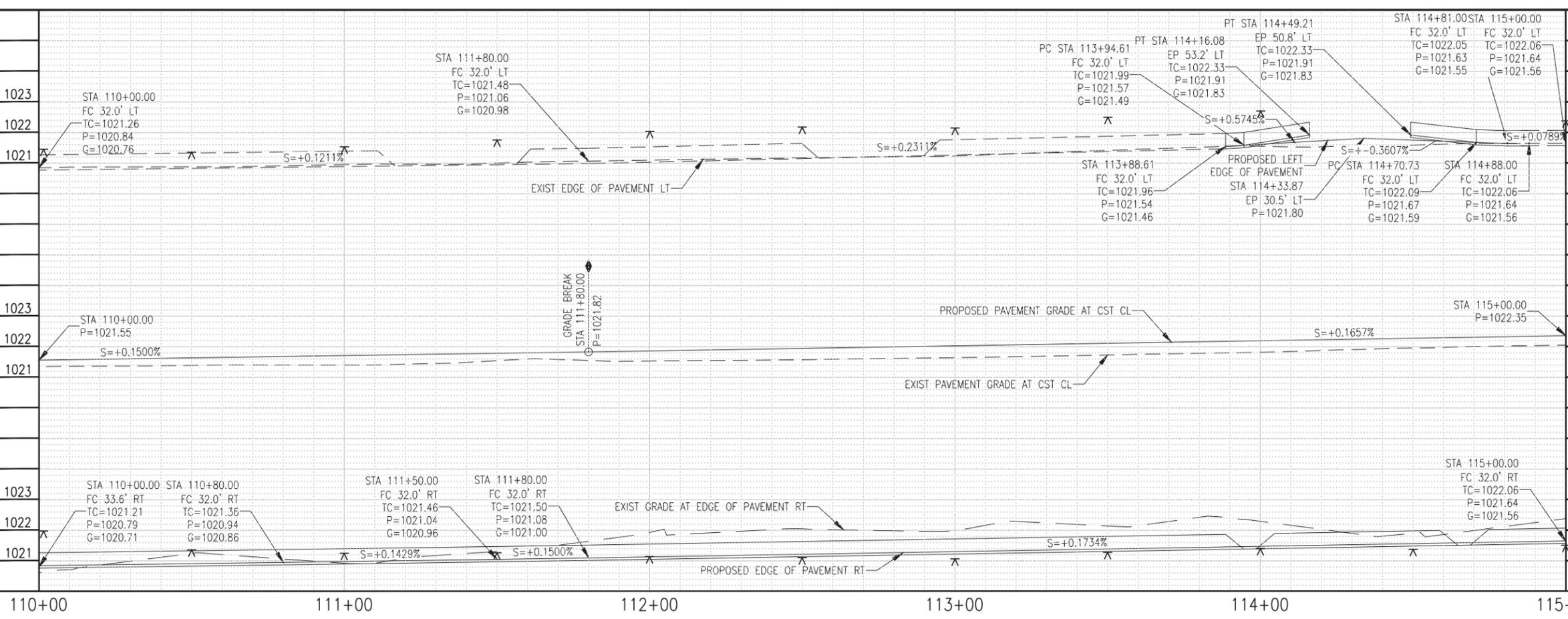
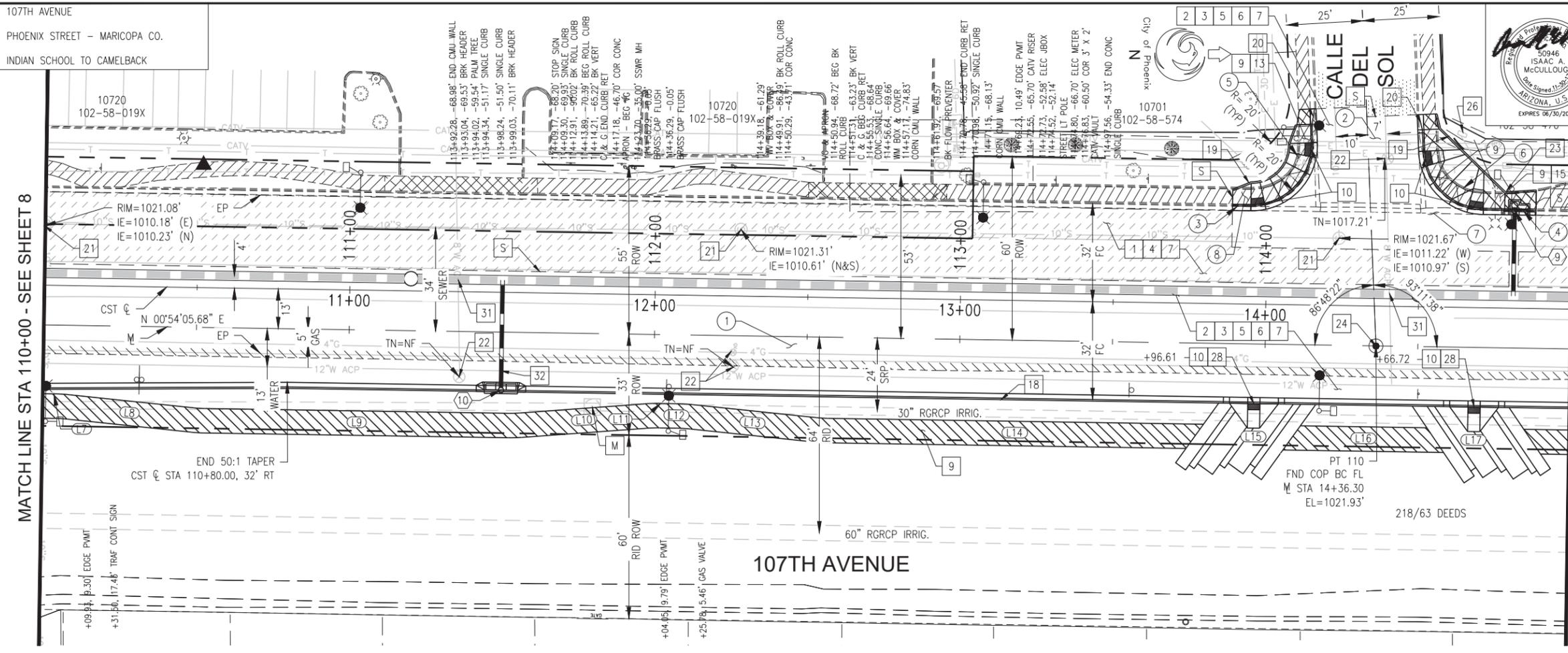
DR: IAM	DES: IAM	CK: MAL	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	7	72
SCALE: NTS				

STXXXXXXXXPP, 1/1/07

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	9	72

STANLEY CONSULTANTS INC.
CONSULTING ENGINEER

DES: IAM DR: IAM CK: MAL DATE: 11/17

NO.	STATION TO STATION	TYPE	QUANTITY
1	110+00.00 TO 115+00.00	A.C.	1798 SY
2	114+15.00 TO 114+51.00	A.C.	110 SY

SAWCUT & REMOVE CONC CURB & GUTTER, ROLL CURB & SINGLE CURB

NO.	STATION TO STATION	TYPE	QUANTITY
3	113+89.00 TO 114+14.00	C&G/ROLL	50 LF
4	114+50.00 TO 114+88.00	C&G/ROLL	60 LF
5	113+89.00 TO 114+10.00	SINGLE	35 LF
6	114+55.00 TO 114+88.00	SINGLE	50 LF

SAWCUT & REMOVE S/W, D/W, SLAB, VG & APRON

NO.	STATION TO STATION	TYPE	QUANTITY
7	113+89.00 TO 114+71.00	VG & APRON	387 SF
8	113+89.00 TO 114+14.00	S/W	194 SF
9	114+50.00 TO 114+88.00	S/W	252 SF

NEW CB & CONNECTOR PIPE

NO.	INLET STA.	INLET TYPE	TYPE CONN.	SIZE	LENGTH
9	114+81.00	M-1, L-3	PREFAB TEE	15"	27.00 LF
10	111+50.00	O TRIPLE	PREFAB TEE	15"	33.00 LF

CONSTRUCTION NOTES

NO.	ITEMS	QUANTITY
1	ASPHALT CONCRETE PAVEMENT MILLING (2" DEPTH)	1169 SY
2	SUBGRADE PREPARATION	2370 SY
3	AGGREGATE BASE COURSE, 6" THICK	693 TONS
4	OVERLAY A.C. SURFACE COURSE, TYPE D-1/2	127 TONS
5	PROP. A.C. SURFACE COURSE, TYPE D-1/2, 2" THICK	258 TONS
6	A.C. BASE COURSE, TYPE A-1 1/2, 4" THICK	515 TONS
7	TACK COAT, TYPE SS-1H	1.18 TONS
9	CONC SIDEWALK, DET. P-1230	4202 SF
10	TRUNCATED DOMES	56 SF
13	SIDEWALK RAMP, DET. P-1237	NPI
15	SIDEWALK RAMP, DET. P-1238-2	NPI
18	CONC CURB & GUTTER, MAG DET. 220, TYPE 'A', H=6"	611 LF
19	CONC SINGLE CURB, MAG DET. 222	76 LF
20	CONC CURB & GUTTER TRANSITION, MAG DET. 221	10 LF
21	ADJUST MANHOLE FRAME & COVER, MAG DET. 422	3 EA
22	ADJUST W.V. TYPE 'A' DET. P-1391 & P-1391-1	4 EA
23	RELOCATE EXISTING PULL BOX	1 EA
24	SURVEY MARKER, MAG DET. 120, TYPE 'B'	1 EA
26	RELOCATE EXISTING W.M. BOX & COVER, DET. P-1363	1 EA
28	CONC SIDEWALK CURB RAMP PER DET. ON SHIT 7	2 EA
31	VERTICAL REALIGNMENT OF EXISTING 8" ACP WATER LINE	60 LF
32	VERTICAL REALIGNMENT OF EXISTING 12" ACP WATER LINE	31 LF

TBM (PT 56):
CHISELED "X"
1/4" STA 10+51, 54' LT
EL=1021.50'

SEE SHIT 22 FOR STORM DRAIN
SEE SHIT 28 FOR CONNECTOR PIPE

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."



PAVING

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: IAM	DES: IAM	CK: MAL	SHEET NO: 9	TOTAL SHEETS: 72
DATE: 11/17	DATE: 11/17	DATE: 11/17		

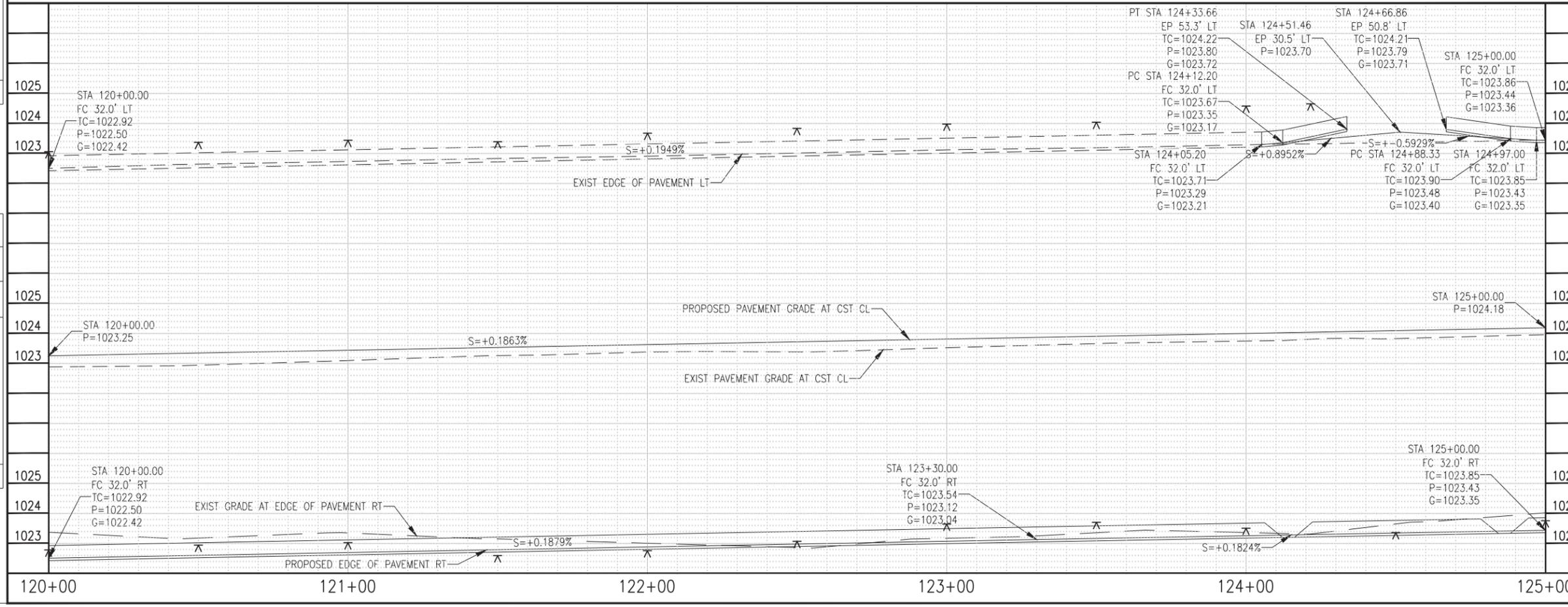
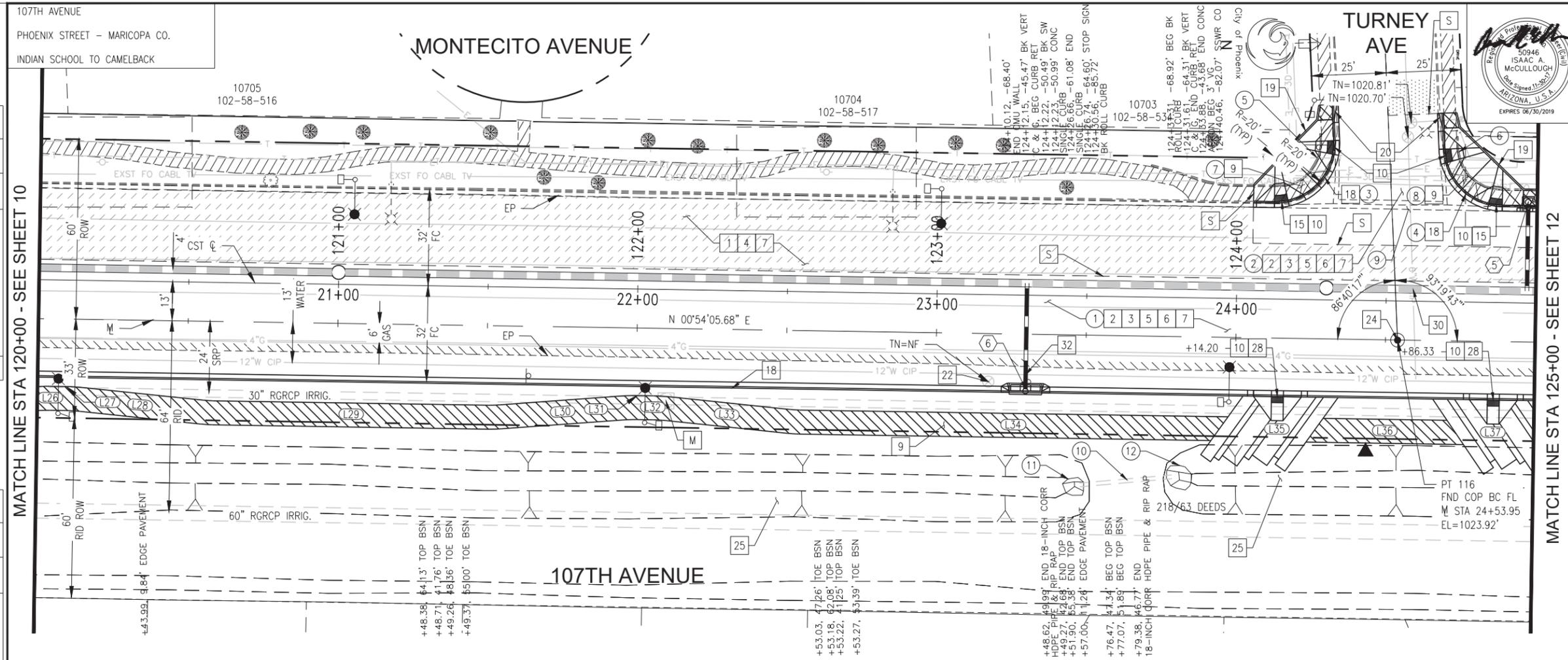
SCALE: 1" = 20' H.
1" = 2' V.

STXXXXXXXXXX.PP. 1/1/07

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	11	72

STANLEY CONSULTANTS INC.
CONSULTING ENGINEER

DES: IAM DR: IAM CK: MAL DATE: 11/17

NO.	STATION TO STATION	TYPE	QUANTITY
1	120+00.00 TO 125+00.00	A.C.	1812 SY
2	124+33.00 TO 124+69.00	A.C.	115 SY

NO.	STATION TO STATION	TYPE	QUANTITY
3	124+05.00 TO 124+31.00	C&G/ROLL	51 LF
4	124+68.00 TO 125+04.00	C&G/ROLL	58 LF
5	124+05.00 TO 124+27.00	SINGLE	28 LF
6	124+73.00 TO 125+04.00	SINGLE	33 LF

NO.	STATION TO STATION	TYPE	QUANTITY
7	124+05.00 TO 124+31.00	S/W	207 SF
8	124+68.00 TO 125+04.00	S/W	244 SF
9	124+12.00 TO 124+88.00	VG & APRON	376 SF

NO.	STATION TO STATION	TYPE	QUANTITY
10	123+49.00 TO 123+80.00	18" HDPE	31 LF

NO.	STATION TO STATION	TYPE	QUANTITY
11	123+48.00	RIPRAP	JOB
12	123+81.00	RIPRAP	JOB

NO.	INLET STA.	INLET TYPE	TYPE CONN.	SIZE	LENGTH
5	124+97.00	M-1, L=3 P-1569-1	PREFAB TEE	15"	28.00 LF
6	123+30.00	O TRIPLE P-1572	PREFAB TEE	15"	33.00 LF

NO.	ITEMS	QUANTITY
1	ASPHALT CONCRETE PAVEMENT MILLING (2" DEPTH)	1193 SY
2	SUBGRADE PREPARATION	2341 SY
3	AGGREGATE BASE COURSE, 6" THICK	685 TONS
4	OVERLAY A.C. SURFACE COURSE, TYPE D-1/2	130 TONS
5	PROP. A.C. SURFACE COURSE, TYPE D-1/2, 2" THICK	255 TONS
6	A.C. BASE COURSE, TYPE A-1 1/2, 4" THICK	509 TONS
7	TACK COAT, TYPE SS-1H	1.18 TONS
9	CONC SIDEWALK, DET. P-1230	4412 SF
10	TRUNCATED DOMES	56 SF
15	SIDEWALK RAMP, DET. P-1238-2	NPI
18	CONC CURB & GUTTER, MAG DET. 220, TYPE 'A', H=6"	611 LF
19	CONC SINGLE CURB, MAG DET. 222	77 LF
20	CONC CURB & GUTTER TRANSITION, MAG DET. 221	10 LF
22	ADJUST W.V. TYPE 'A' DET. P-1391 & P-1391-1	1 EA
24	SURVEY MARKER, MAG DET. 120, TYPE 'B'	1 EA
25	FILL & COMPACT RETENTION BASIN STA 120+00 TO 123+52 & STA 123+76 TO 125+00	1164 CY
28	CONC SIDEWALK CURB RAMP PER DET. ON SHT 7	2 EA
30	VERTICAL REALIGNMENT OF EXISTING 6" CIP WATER LINE	28 LF
32	VERTICAL REALIGNMENT OF EXISTING 12" ACP WATER LINE	31 LF

▲ TBM (PT 48):
BRIDGE SPIKE
% STA 24+44, 37 RT
EL=1022.56'

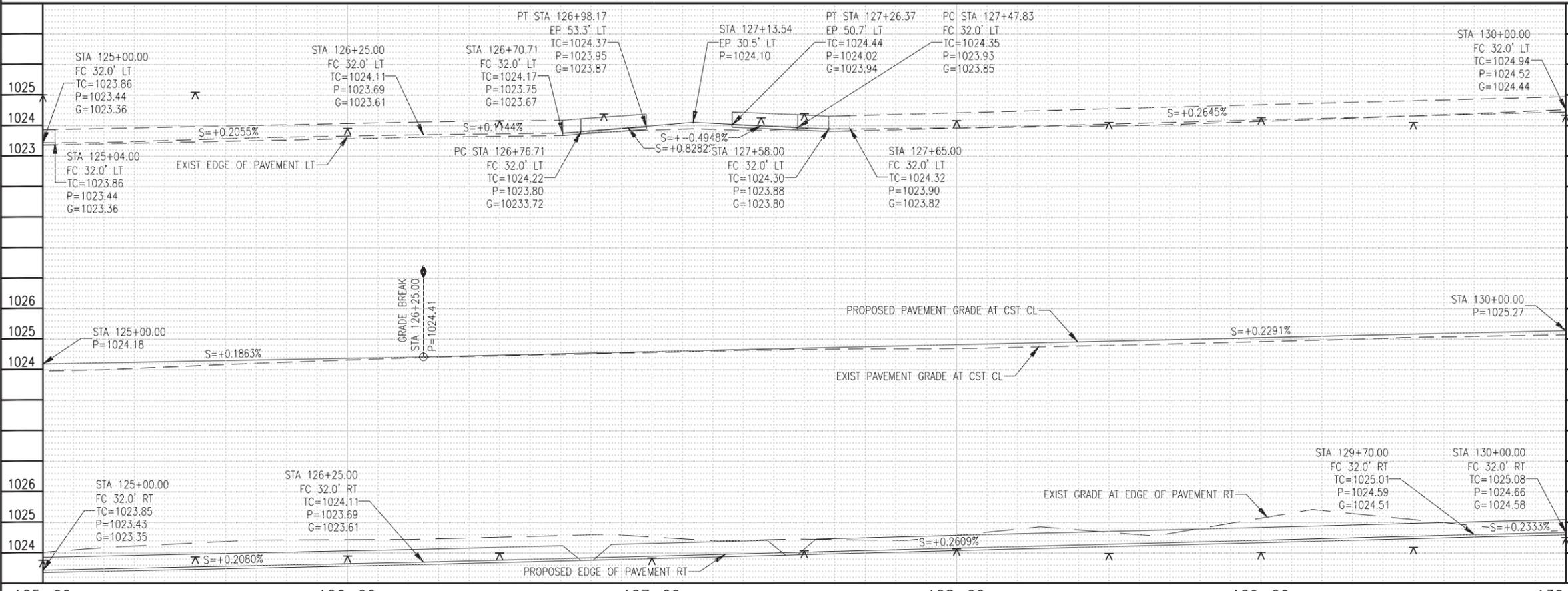
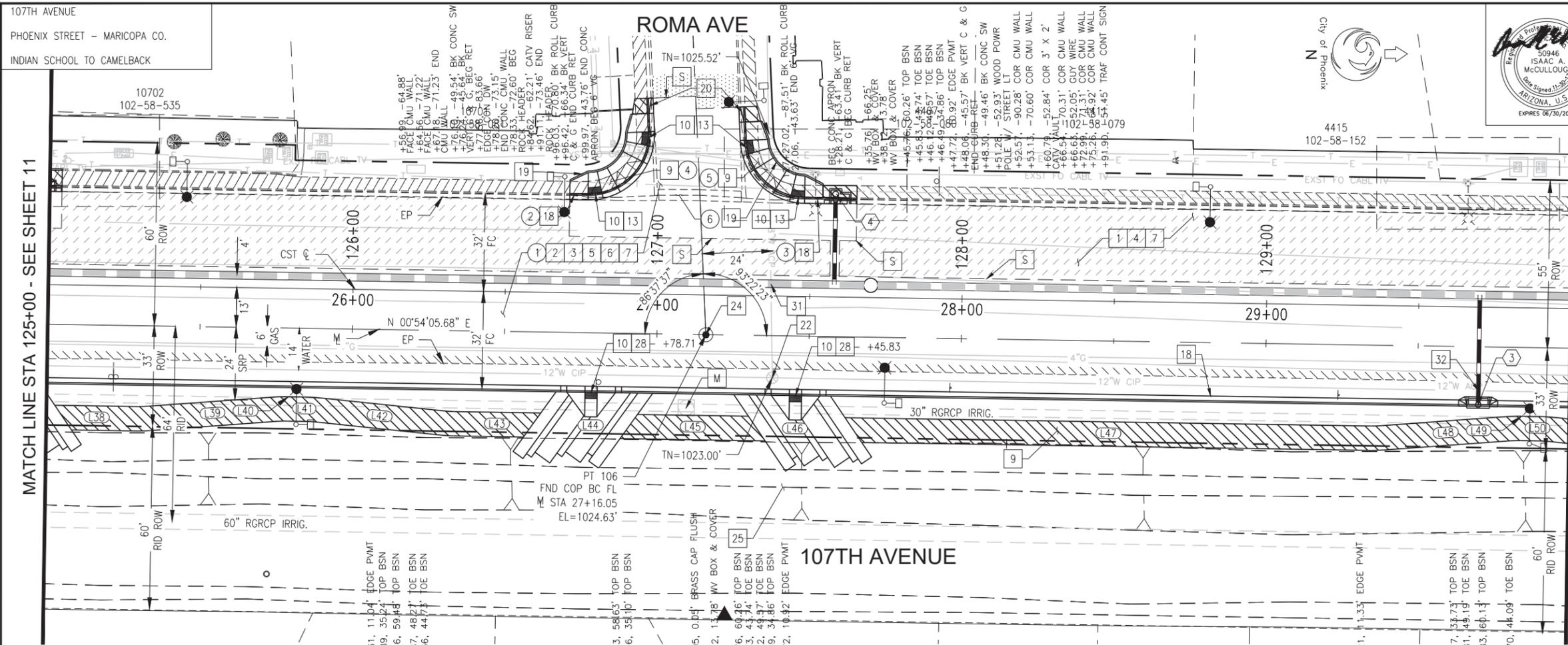
SEE SHT 24 FOR STORM DRAIN
SEE SHT 28 & 29 FOR CONNECTOR PIPE

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."



DR: IAM	DES: IAM	CK: MAL	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	11	72

SCALE: 1" = 20' H.
1" = 2' V.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	12	72

STANLEY CONSULTANTS INC.
CONSULTING ENGINEER

DES: IAM DR: IAM CK: MAL DATE: 11/17

SAWCUT & REMOVE A.C.			
NO.	STATION TO STATION	TYPE	QUANTITY
1	125+00.00 TO 130+00.00	A.C.	1931 SY
SAWCUT & REMOVE CONC CURB & GUTTER, ROLL CURB & SINGLE CURB			
NO.	STATION TO STATION	TYPE	QUANTITY
2	126+70.00 TO 126+96.00	C&G/ROLL	50 LF
3	127+27.00 TO 127+65.00	C&G/ROLL	59 LF
SAWCUT & REMOVE S/W, D/W, MAG, VG & APRON			
NO.	STATION TO STATION	TYPE	QUANTITY
4	126+70.00 TO 126+90.00	S/W	183 SF
5	127+27.00 TO 127+65.00	S/W	223 SF
6	126+77.00 TO 127+48.00	VG & APRON	390 SF

NEW CB & CONNECTOR PIPE					
NO.	INLET STA.	INLET TYPE	TYPE CONN.	SIZE	LENGTH
3	129+70.00	DOUBLE P-1572	PREFAB TEE	15"	33.00 LF
4	127+58.00	M-1, L-3 P-1569-1	PREFAB TEE	15"	28.00 LF

CONSTRUCTION NOTES		
NO.	ITEMS	QUANTITY
1	ASPHALT CONCRETE PAVEMENT MILLING (2" DEPTH)	1184 SY
2	SUBGRADE PREPARATION	2322 SY
3	AGGREGATE BASE COURSE, 6" THICK	679 TONS
4	OVERLAY A.C. SURFACE COURSE, TYPE D-1/2	129 TONS
5	PROP. A.C. SURFACE COURSE, TYPE D-1/2, 2" THICK	253 TONS
6	A.C. BASE COURSE, TYPE A-1 1/2, 4" THICK	505 TONS
7	TACK COAT, TYPE SS-1H	1.17 TONS
9	CONC SIDEWALK, DET. P-1230	4034 SF
10	TRUNCATED DOMES	56 SF
13	SIDEWALK RAMP, DET. P-1237	NPI
18	CONC CURB & GUTTER, MAG DET. 220, TYPE 'A', H=6"	609 LF
19	CONC SINGLE CURB, MAG DET. 222	65 LF
20	CONC CURB & GUTTER TRANSITION, MAG DET. 221	10 LF
22	ADJUST W.V. TYPE 'A' DET. P-1391 & P-1391-1	1 EA
24	SURVEY MARKER, MAG DET. 120, TYPE 'B'	1 EA
25	FILL & COMPACT RETENTION BASIN STA 125+00.00 TO STA 130+00.00	1624 CY
28	CONC SIDEWALK CURB RAMP PER DET. OF SHT 7	2 EA
31	VERTICAL REALIGNMENT OF EXISTING 8" ACP WATER LINE	32 LF
32	VERTICAL REALIGNMENT OF EXISTING 12" ACP WATER LINE	31 LF

▲ TBM (PT 52):
BRIDGE SPIKE
STA. 27+24.91' RT
EL=1024.48'

SEE SHT 25 FOR STORM DRAIN
SEE SHT 29 FOR CONNECTOR PIPE

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

PAVING
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: IAM	DES: IAM	CK: MAL	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	12	72

SCALE: 1" = 20' H.
1" = 2' V.

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

STXXXXXXXXXX.PP. 1/1/07

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK

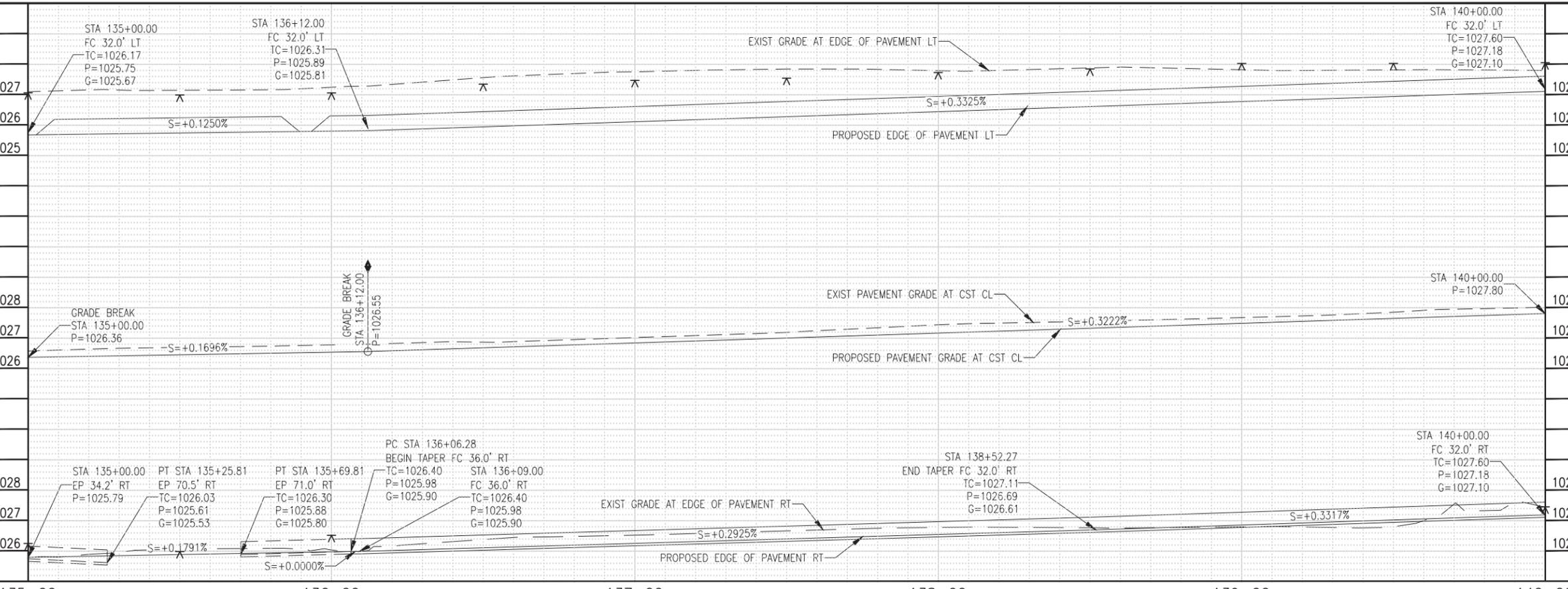
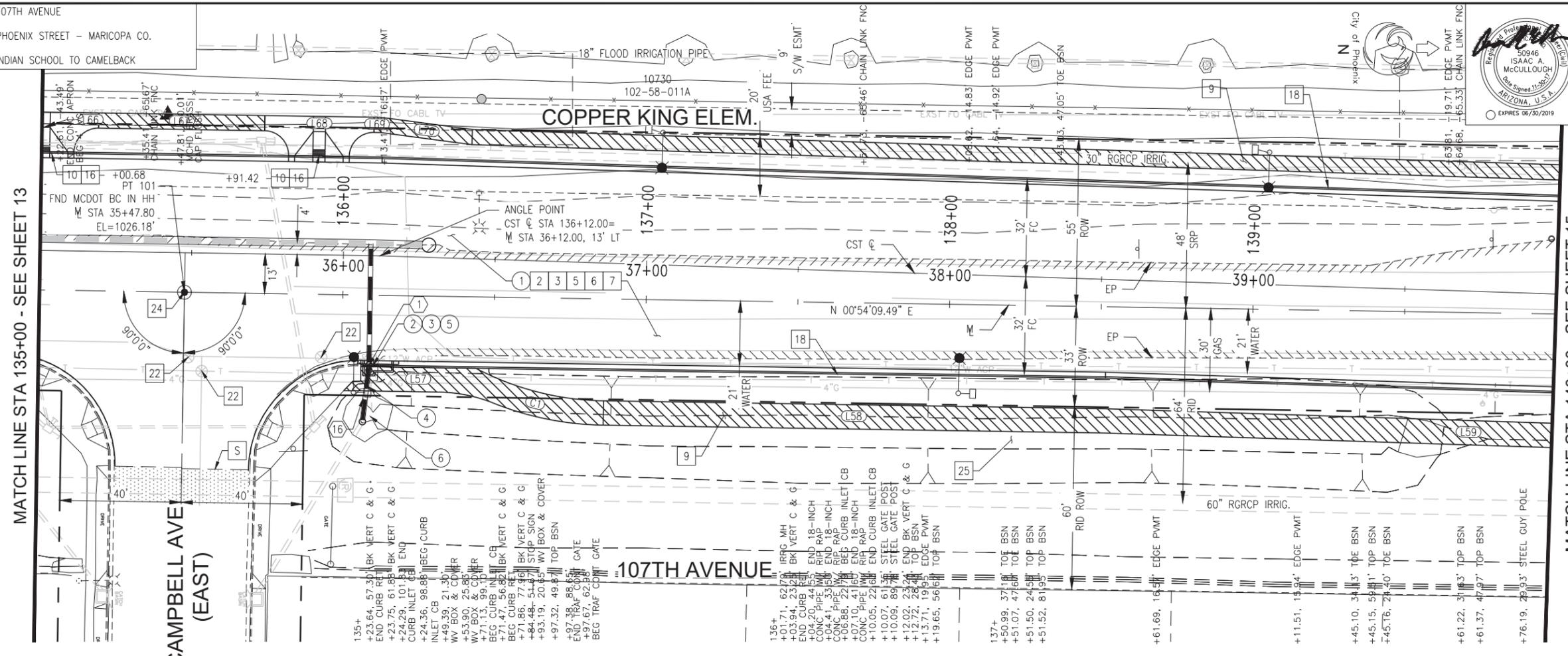
NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

MATCH LINE STA 135+00 - SEE SHEET 13

MATCH LINE STA 140+00 - SEE SHEET 15



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	14	72

STANLEY CONSULTANTS INC.
CONSULTING ENGINEER

DES: IAM DR: IAM CK: MAL DATE: 11/17

NO.	STATION TO STATION	TYPE	QUANTITY
1	135+00.00 TO 140+00.00	A.C.	2153 SY
SAWCUT & REMOVE CONC CURB & GUTTER, ROLL CURB & SINGLE CURB			
2	136+05.00 TO 136+13.00	C&G	8 LF
SAWCUT & REMOVE S/W, D/W, SLAB, VG & APRON			
3	136+05.00 TO 136+13.00	S/W	27 SF
REMOVE PIPE BACKFILL & COMPACT			
4	136+08.00	18" CONC	15 LF
REMOVE STRUCTURE BACKFILL & COMPACT			
5	136+08.00	CATCH BASIN	1 EA
MISCELLANEOUS REMOVAL			
6	136+08.00	RIPRAP	JOB
NEW CB & CONNECTOR PIPE			
1	136+09.00	M-1, L=3'	39.00 LF
16	136+07.50	-	16.00 LF

NO.	ITEMS	QUANTITY
2	SUBGRADE PREPARATION	3718 SY
3	AGGREGATE BASE COURSE, 6" THICK	1087 TONS
5	PROP. A.C. SURFACE COURSE, TYPE D-1/2, 2" THICK	404 TONS
6	A.C. BASE COURSE, TYPE A-1 1/2, 4" THICK	809 TONS
7	TACK COAT, TYPE SS-1H	1.24 TONS
9	CONC SIDEWALK, DET. P-1230	5967 SF
10	TRUNCATED DOMES	16 SF
16	SIDEWALK RAMP, DET. P-1241-2	NPI
18	CONC CURB & GUTTER, MAG DET. 220, TYPE 'A', H=6"	893 LF
22	ADJUST W.V. TYPE 'A' DET. P-1391 & P-1391-1	3 EA
24	SURVEY MARKER, MAG DET. 120, TYPE 'A'	1 EA
25	FILL & COMPACT RETENTION BASIN STA 135+96.00 TO STA 139+66.00	1794 CY

▲ TBM (PT 04):
BRIDGE SPIKE
@ STA 35+41.59' LT
EL= 1026.94'

SEE SHIT 27 FOR STORM DRAIN
SEE SHIT 30 FOR CONNECTOR PIPE

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."



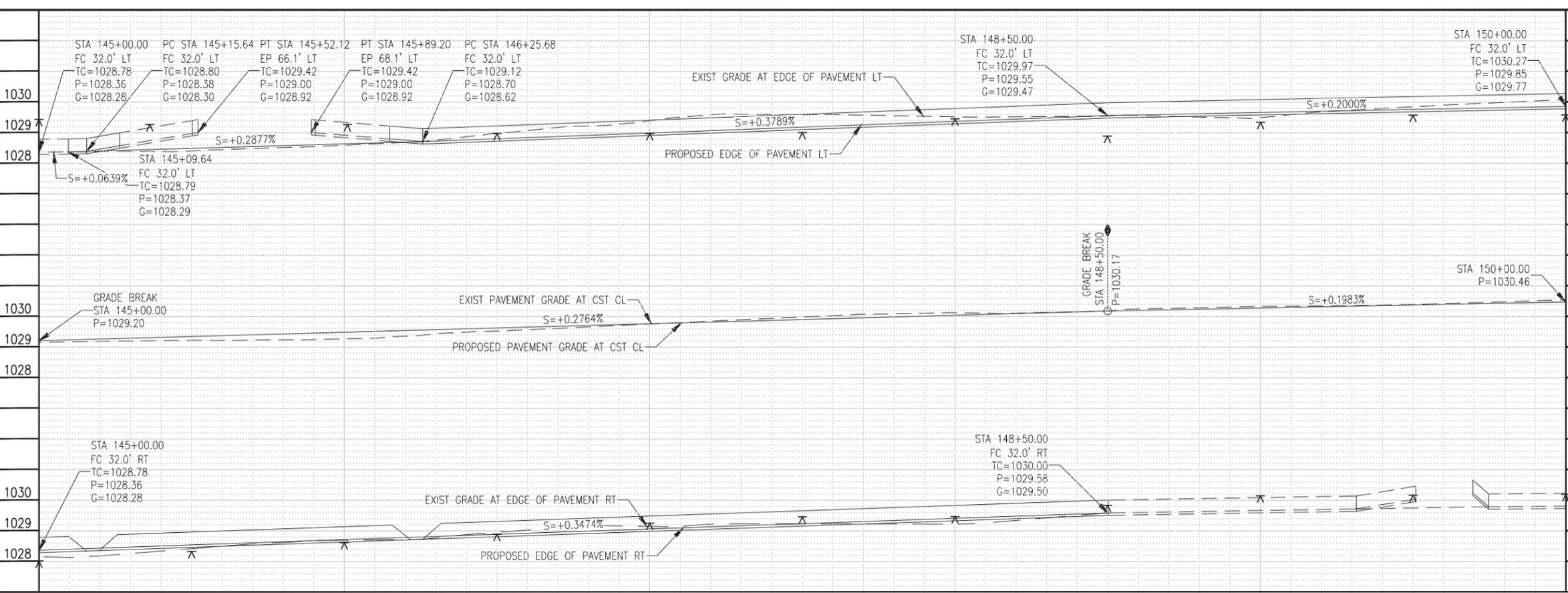
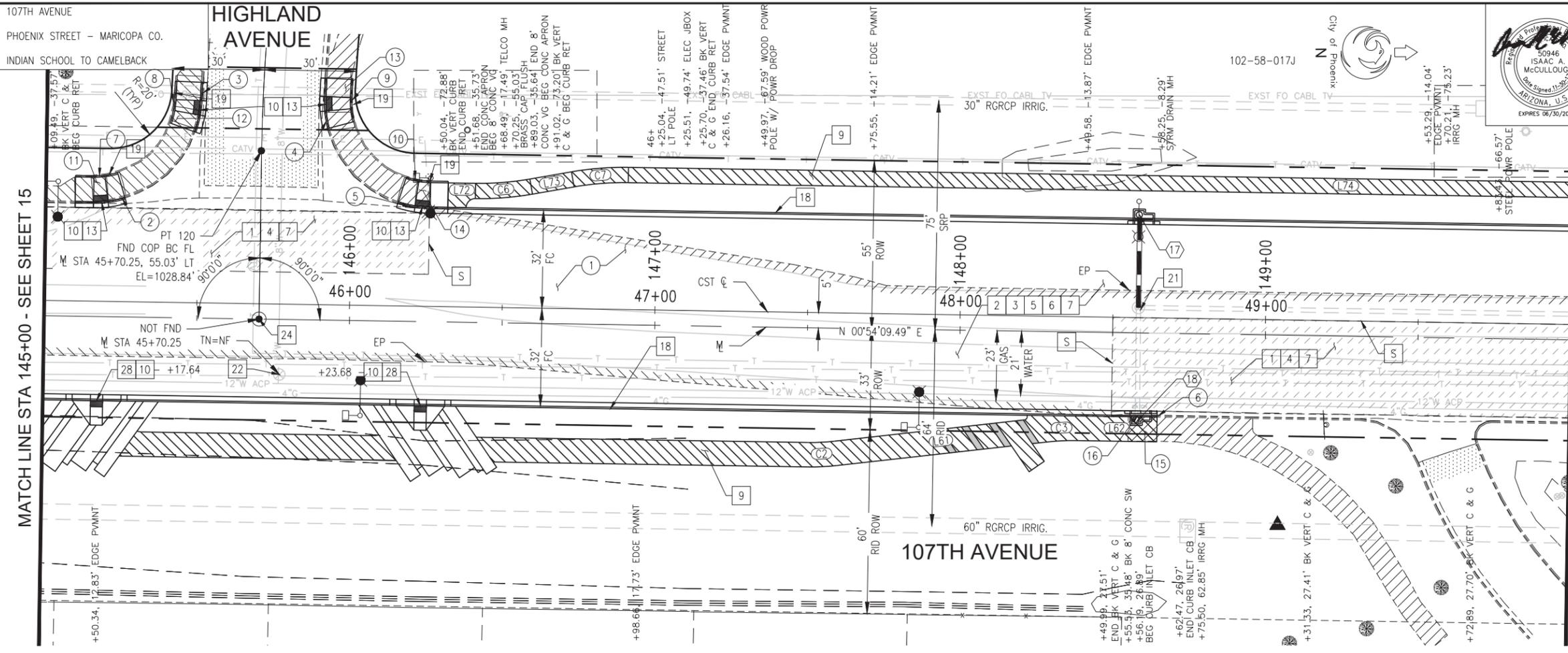
PAVING
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
**107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161**

DR: IAM	DES: IAM	CK: MAL	SHEET NO: 14	TOTAL SHEETS: 72
DATE: 11/17	DATE: 11/17	DATE: 11/17		
SCALE: 1" = 20' H. 1" = 2' V.				

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	16	72

STANLEY CONSULTANTS INC.
CONSULTING ENGINEER

DES: IAM	DR: IAM	CK: MAL	DATE: 11/17
----------	---------	---------	-------------

NO.	STA TO STA	TYPE	QUANTITY
1	145+00.00 TO 150+00.00	A.C.	1609 SY

SAWCUT & REMOVE CONC CURB & GUTTER ROLL CURB, SINGLE CURB			
NO.	STA TO STA	TYPE	QUANTITY
2	145+09.00 TO 145+26.00	C&G	17 LF
3	145+48.00 TO 145+50.00	C&G	17 LF
4	145+91.00 TO 145+92.00	C&G	17 LF
5	146+15.00 TO 146+26.00	C&G	11 LF
6	148+54.00 TO 148+65.00	C&G	11 LF
7	145+09.00 TO 145+26.00	SINGLE	14 LF
8	145+40.00 TO 145+42.00	SINGLE	14 LF
9	146+00.00 TO 146+01.00	SINGLE	14 LF
10	146+18.00 TO 146+26.00	SINGLE	8 LF

SAWCUT & REMOVE S/W, D/W, SLAB, VG & APRON			
NO.	STA TO STA	TYPE	QUANTITY
11	145+09.00 TO 145+26.00	S/W	122 SF
12	145+48.00 TO 145+50.00	S/W	120 SF
13	145+91.00 TO 145+92.00	S/W	121 SF
14	146+15.00 TO 146+26.00	S/W	76 SF
15	148+54.00 TO 148+65.00	S/W	126 SF

REMOVE STRUCTURE BACKFILL & COMPACT			
NO.	STATION TO STATION	TYPE	QUANTITY
16	148+58.70	CATCH BASIN	1 EA

NEW CB & CONNECTOR PIPE					
NO.	INLET STA.	INLET TYPE	TYPE CONN.	SIZE	LENGTH
17	148+58.35	M-1, L=3'	MANHOLE	15"	29.00 LF
18	148+58.35	M-1, L=3'	EXIST PIPE	-	-

CONSTRUCTION NOTES			
NO.	ITEMS	QUANTITY	
1	ASPHALT CONCRETE PAVEMENT MILLING (2" DEPTH)	788 SY	
2	SUBGRADE PREPARATION	2601 SY	
3	AGGREGATE BASE COURSE, 6" THICK	761 TONS	
4	OVERLAY A.C. SURFACE COURSE, TYPE D-1/2	86 TONS	
5	PROP. A.C. SURFACE COURSE, TYPE D-1/2, 2" THICK	283 TONS	
6	A.C. BASE COURSE, TYPE A-1 1/2, 4" THICK	566 TONS	
7	TACK COAT, TYPE SS-1H	1.13 TONS	
9	CONC SIDEWALK, DET. P-1230	4732 SF	
10	TRUNCATED DOMES	56 SF	
13	SIDEWALK RAMP, DET. P-1237	NPI	
18	CONC CURB & GUTTER, MAG DET. 220, TYPE 'A', H=6"	724 LF	
19	CONC SINGLE CURB, MAG DET. 222	68 LF	
21	ADJUST MANHOLE FRAME & COVER, MAG DET. 422	1 EA	
22	ADJUST W.V. TYPE 'A' DET. P-1391 & P-1391-1	1 EA	
24	SURVEY MARKER, MAG DET. 120, TYPE 'B'	1 EA	
28	CONC SIDEWALK CURB RAMP PER DET. ON SHT 7	2 EA	

TBM (PT 14): BRIDGE SPIKE			
1/4"	STA 49+05, 61' RT	EL=1030.18'	

SEE SHT 30 FOR CONNECTOR PIPE

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

PAVING

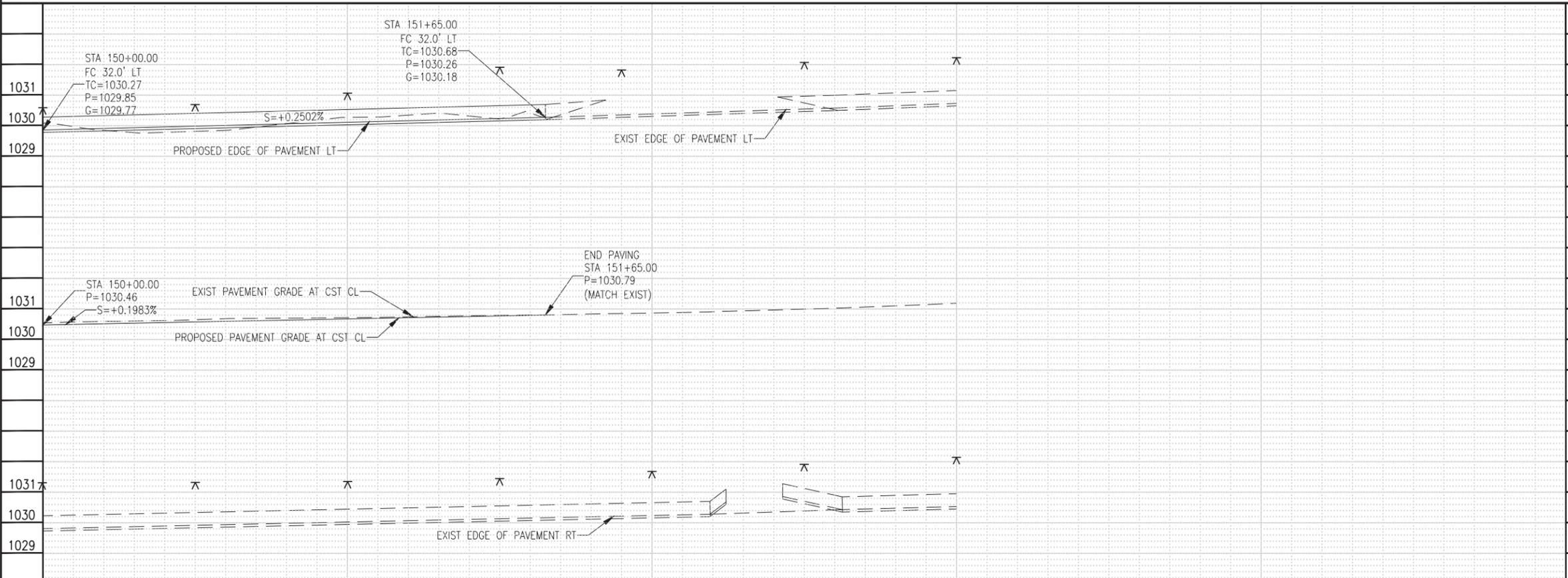
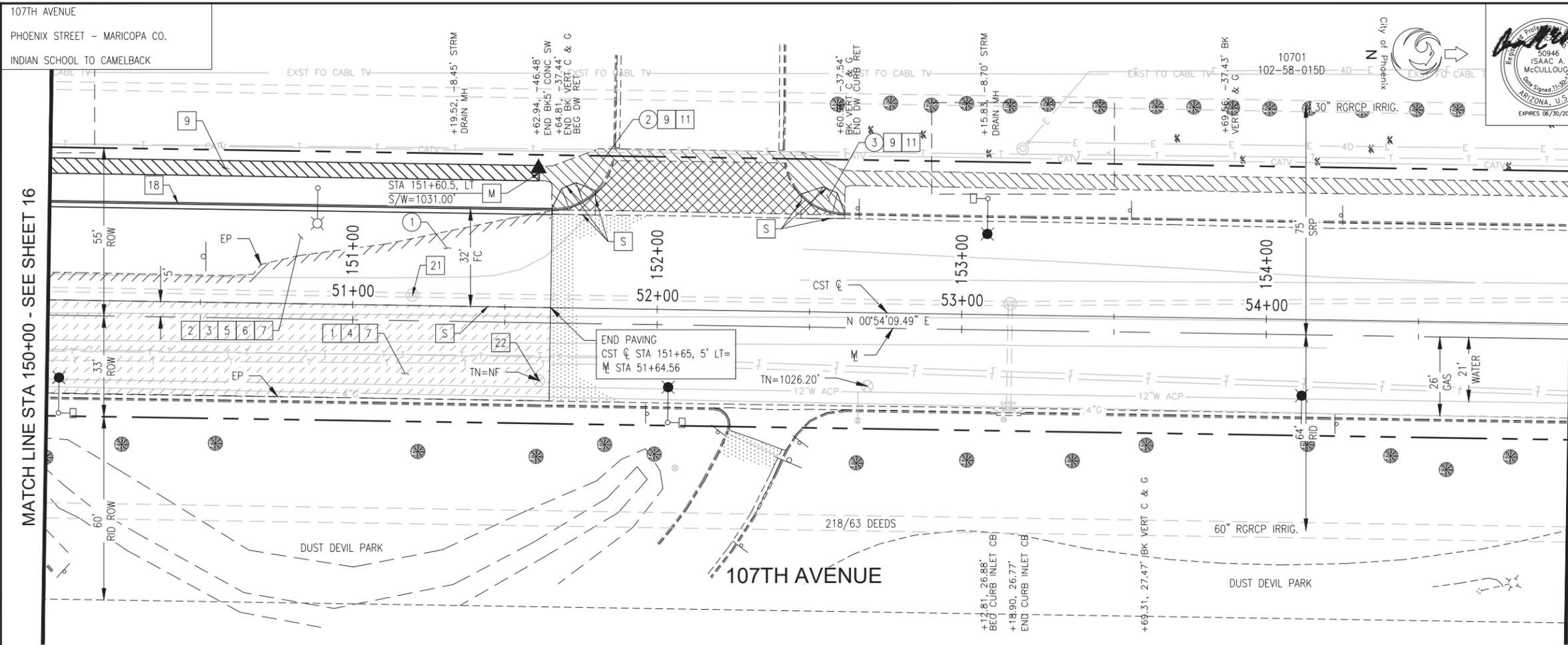
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: IAM	DES: IAM	CK: MAL	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	16	72

SCALE: 1" = 20' H.
1" = 2' V.





NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	17	72

STANLEY CONSULTANTS INC.
CONSULTING ENGINEER

DES: IAM DR: IAM CK: MAL DATE: 11/17

SAWCUT & REMOVE A.C.

NO.	STATION TO STATION	TYPE	QUANTITY
1	150+00.00 TO 151+65.00	A.C.	303 SY

SAWCUT & REMOVE S/W, D/W, SLAB, VG & APRON

NO.	STATION TO STATION	TYPE	QUANTITY
2	151+65.00 TO 151+79.00	S/W-D/W	120 SF
3	152+46.70 TO 152+61.00	S/W-D-W	122 SF

CONSTRUCTION NOTES

NO.	ITEMS	QUANTITY
1	ASPHALT CONCRETE PAVEMENT MILLING (2" DEPTH)	559 SY
2	SUBGRADE PREPARATION	559 SY
3	AGGREGATE BASE COURSE, 6" THICK	164 TONS
4	OVERLAY A.C. SURFACE COURSE, TYPE D-1/2	61 TONS
5	PROP. A.C. SURFACE COURSE, TYPE D-1/2, 2" THICK	61 TONS
6	A.C. BASE COURSE, TYPE A-1 1/2, 4" THICK	122 TONS
7	TACK COAT, TYPE SS-1H	0.37 TONS
9	CONC SIDEWALK, DET. P-1230	803 SF
11	CONC DRIVEWAY, DET. P-1243	108 SF
18	CONC CURB & GUTTER, MAG DET. 220, TYPE 'A', H=6"	165 LF
21	ADJUST MANHOLE FRAME & COVER, MAG DET. 422	1 EA
22	ADJUST W.V. TYPE 'A' DET. P-1391 & P-1391-1	1 EA

CONSTRUCTION NOTES

NO.	ITEMS	QUANTITY
1	ASPHALT CONCRETE PAVEMENT MILLING (2" DEPTH)	559 SY
2	SUBGRADE PREPARATION	559 SY
3	AGGREGATE BASE COURSE, 6" THICK	164 TONS
4	OVERLAY A.C. SURFACE COURSE, TYPE D-1/2	61 TONS
5	PROP. A.C. SURFACE COURSE, TYPE D-1/2, 2" THICK	61 TONS
6	A.C. BASE COURSE, TYPE A-1 1/2, 4" THICK	122 TONS
7	TACK COAT, TYPE SS-1H	0.37 TONS
9	CONC SIDEWALK, DET. P-1230	803 SF
11	CONC DRIVEWAY, DET. P-1243	108 SF
18	CONC CURB & GUTTER, MAG DET. 220, TYPE 'A', H=6"	165 LF
21	ADJUST MANHOLE FRAME & COVER, MAG DET. 422	1 EA
22	ADJUST W.V. TYPE 'A' DET. P-1391 & P-1391-1	1 EA

▲ TBM (PT 15):
SCRIBED "X"
STA 51+60, 51' LT
EL=1031.03'

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

ARIZONA 811
Arizona 811 Data, Inc.
Dial 8-1-1 or 1-800-874-8847 (782-8348)
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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

PAVING

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: IAM	DES: IAM	CK: MAL	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	17	72

SCALE: 1" = 20' H.
1" = 2' V.

107TH AVENUE
 PHOENIX STREET - MARICOPA CO.
 INDIAN SCHOOL TO CAMELBACK

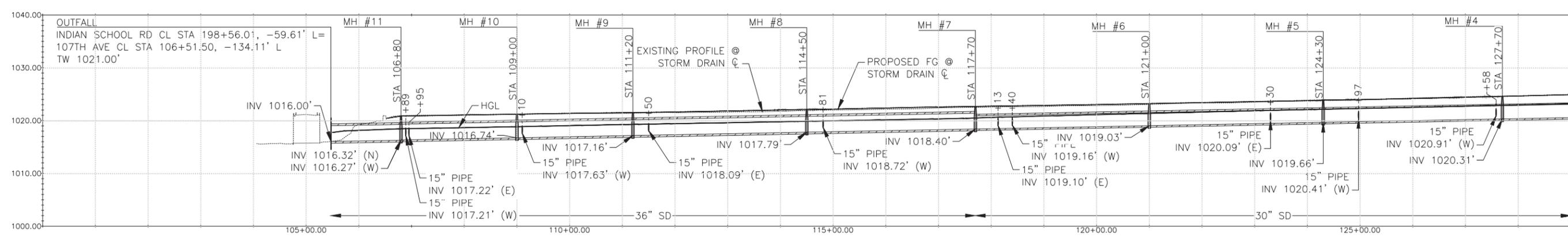


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	19	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: IAM	DR: IAM	CK: MAL	DATE: 11/17	

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

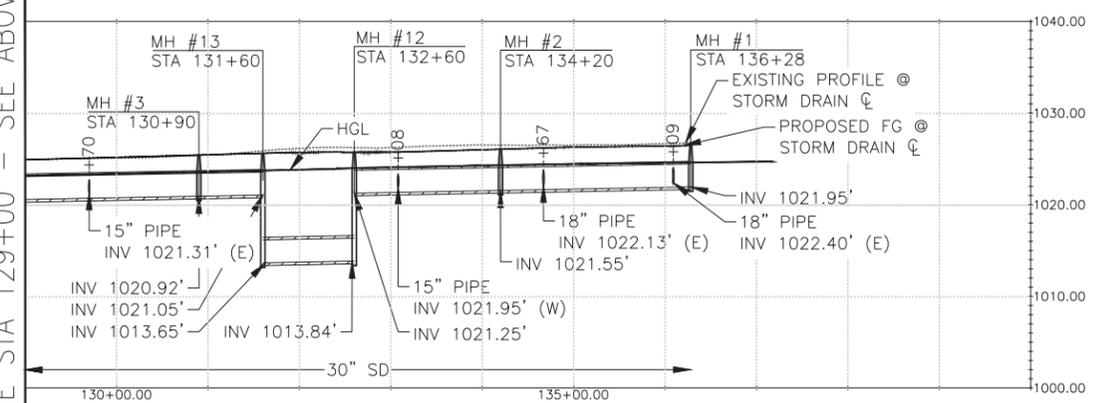
NO.	DESCRIPTION	REV BY	CHK BY	DATE



PROFILE
107TH AVENUE

MATCHLINE STA 129+00 - SEE BELOW LEFT

MATCHLINE STA 129+00 - SEE ABOVE RIGHT



PROFILE
107TH AVENUE

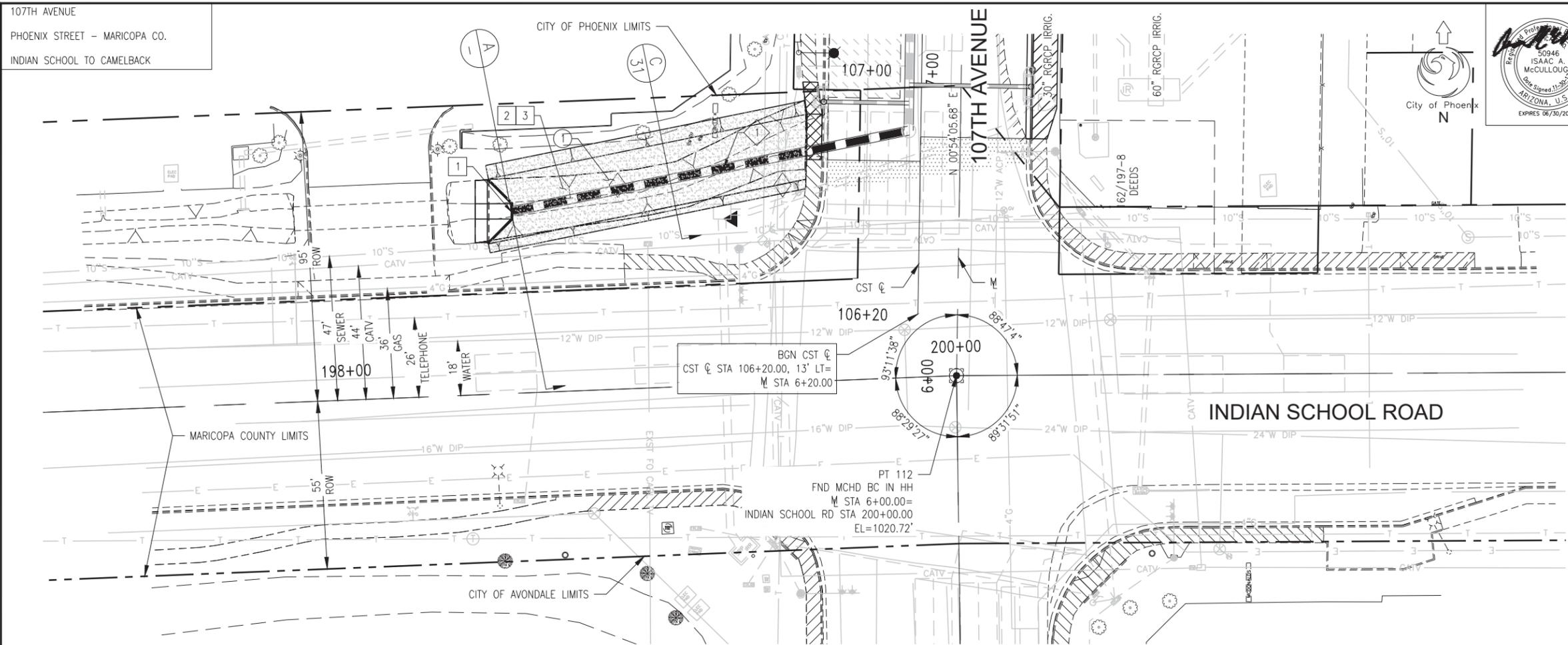


"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

HYDRAULIC GRADE LINE
 CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT
107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: IAM	DES: IAM	CK: MAL	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	19	72
SCALE: NTS				

STXXXXXXXXPP. 1/1/07



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	20	72

STANLEY CONSULTANTS INC.
CONSULTING ENGINEER

DES: IAM	DR: IAM	CK: MAL	DATE: 11/17
----------	---------	---------	-------------

STORM DRAIN PIPE			
NO.	STATION TO STATION	SIZE	LF
1	198+56.03 TO 199+87.48	36"	133

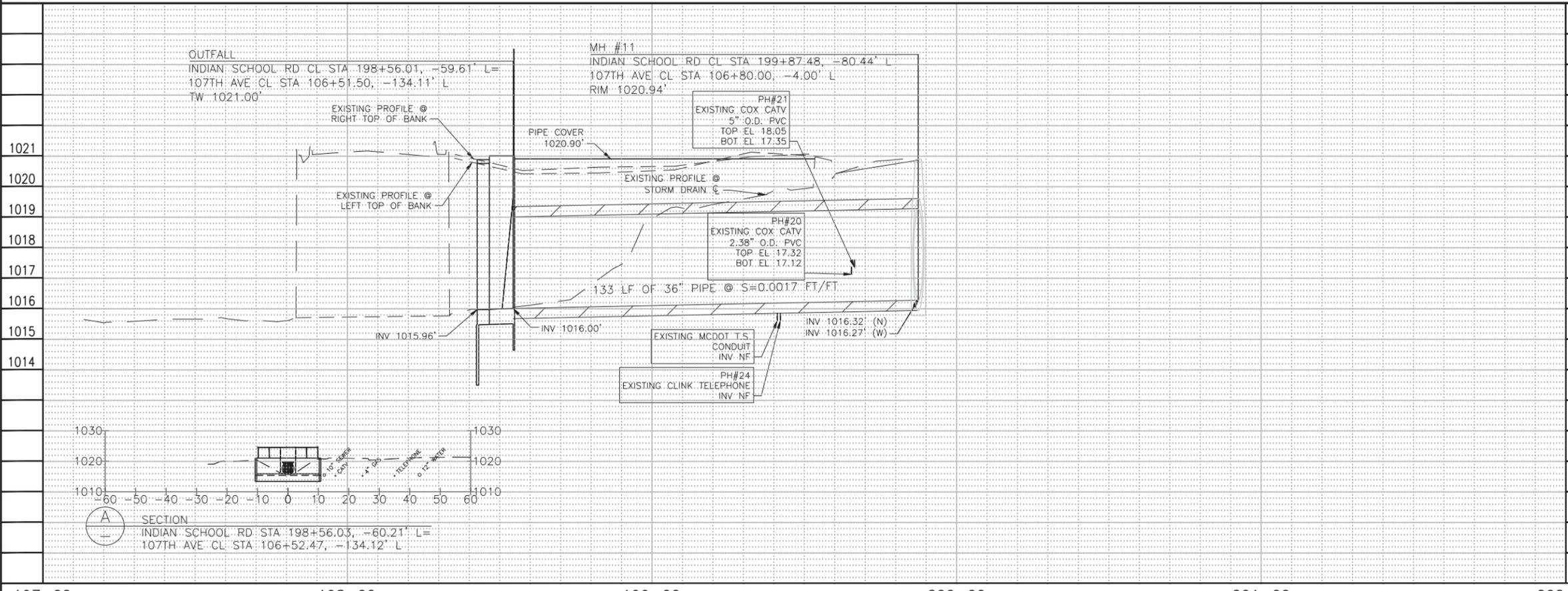
MISCELLANEOUS REMOVAL			
NO.	ITEM	UNIT	QTY
1	REMOVE EXISTING CANAL LINING STA 198+43.00 TO STA 199+54.00	SY	216

CONSTRUCTION NOTES			
NO.	ITEM	UNIT	QTY
1	CONSTRUCT HEADWALL FOR 36" PIPE SEE DETAIL B ON SHT 31 MODIFIED MAG STD DET 501-4 L=11.0', E=7.78', F=7.78' 45' WING FLARE WITH SAFETY RAIL PER MAG STD DET 145, TYPE 1 WITH TRASH RACK PER MAG STD DET 502-2 STA 198+56.01, 59.61' LT = STA 106+51.50, 134.11' LT	EA	1
2	STORM DRAIN PIPE COVER SEE SECTION B IN DETAIL C ON SHT 31	NPI	
3	PLACE DECOMPOSED GRANITE (2" THICK) MATCH EXISTING SIZE AND COLOR SEE DETAIL NO. 5 ON SHT 55	SF	2912

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



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

ARIZONA 811
Arizona 811 Data Inc.
Dial 8-1-1 or 1-800-874-8847 (TDD-8348) in Maricopa County; (602) 263-1100

SEE SHT 8 FOR PAVING PLAN
SEE SHT 28 & 30 FOR CONNECTOR PIPE

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

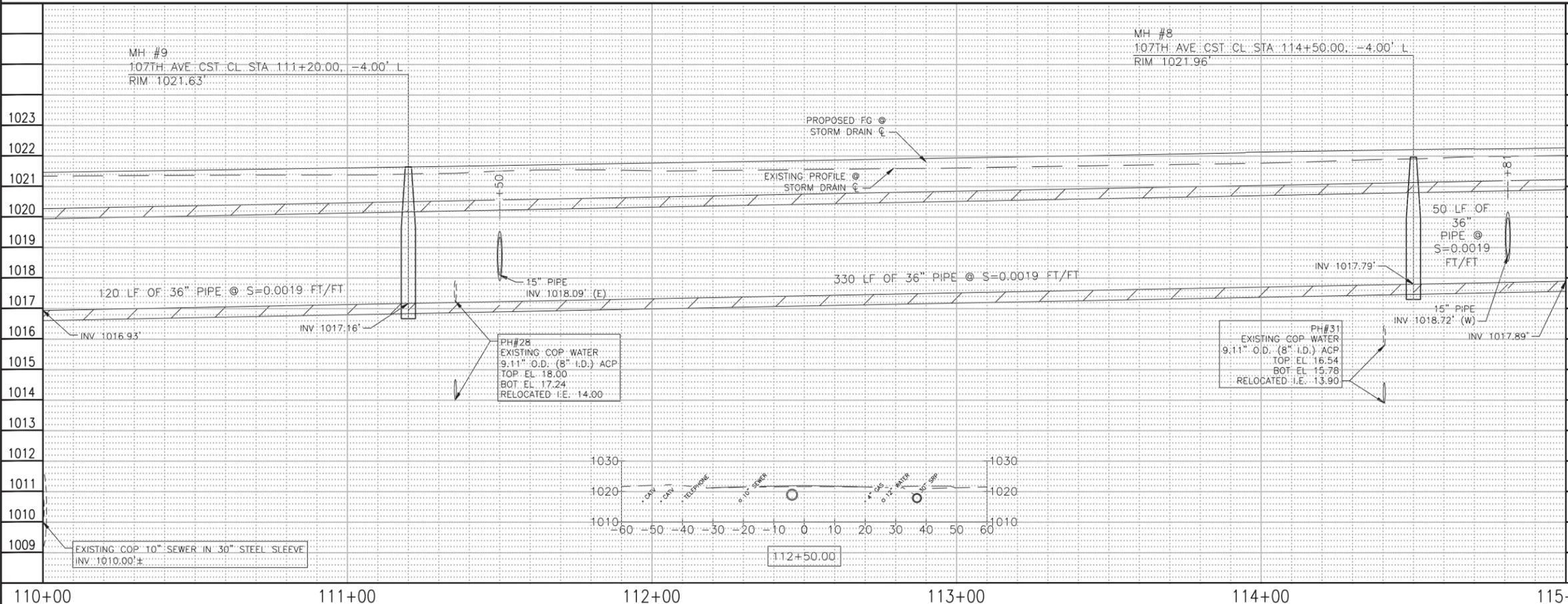
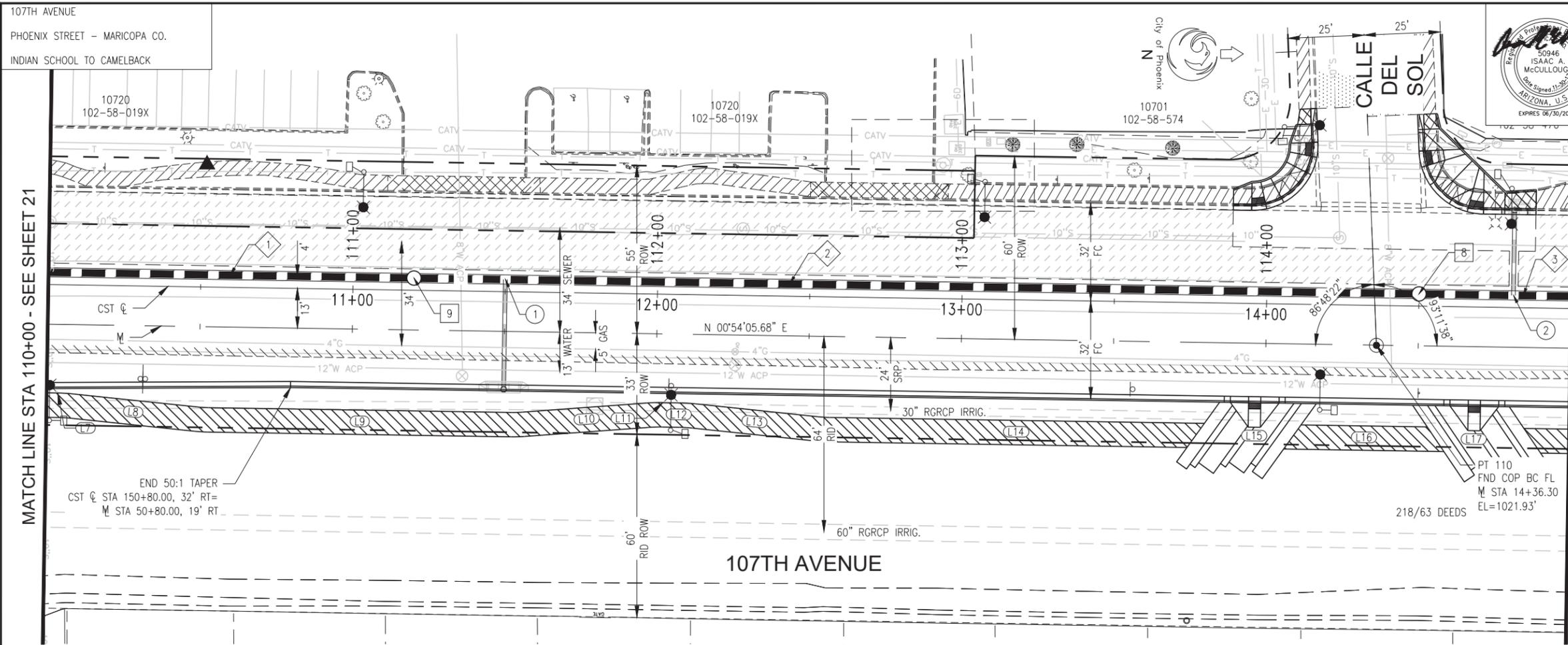
STORM DRAIN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: IAM	DES: IAM	CK: MAL	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	20	72

SCALE: 1" = 20' H.
1" = 2' V.



NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	22	72

STANLEY CONSULTANTS INC.
CONSULTING ENGINEER

DES: IAM DR: IAM CK: MAL DATE: 11/17

STORM DRAIN PIPE			
NO.	STATION TO STATION	SIZE	LF
1	110+00.00 TO 111+20.00	36"	120
2	111+20.00 TO 114+50.00	36"	330
3	114+50.00 TO 115+00.00	36"	50

PREFABRICATED TEE		
NO.	STATION	SIZE
1	111+50.00, RT	36" X 36" X 15"
2	114+81.00, LT	36" X 36" X 15"

STORM DRAIN MANHOLE		
NO.	STATION	TYPE
9	111+20.00, 4.00' LT	DETAIL A, SEE SHT 31
8	114+50.00, 4.00' LT	DETAIL A, SEE SHT 31



SEE SHT 9 FOR PAVING PLAN
SEE SHT 28 FOR CONNECTOR PIPE

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

STORM DRAIN

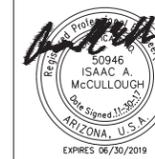
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: IAM	DES: IAM	CK: MAL	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	22	72
SCALE: 1" = 20' H. 1" = 2' V.				

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK

GLENROSA AVENUE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	23	72

STANLEY CONSULTANTS INC.
CONSULTING ENGINEER

DES: IAM DR: IAM CK: MAL DATE: 11/17

STORM DRAIN PIPE

NO.	STATION TO STATION	SIZE	LF
1	115+00.00 TO 117+70.00	36"	270
2	117+70.00 TO 120+00.00	30"	230

PREFABRICATED TEE

NO.	STATION	SIZE
1	118+13.00, RT	30" X 30" X 15"
2	118+40.00, LT	30" X 30" X 15"

STORM DRAIN MANHOLE

NO.	STATION	TYPE
7	117+70.00, 4.00' LT	DETAIL A, SEE SHT 31

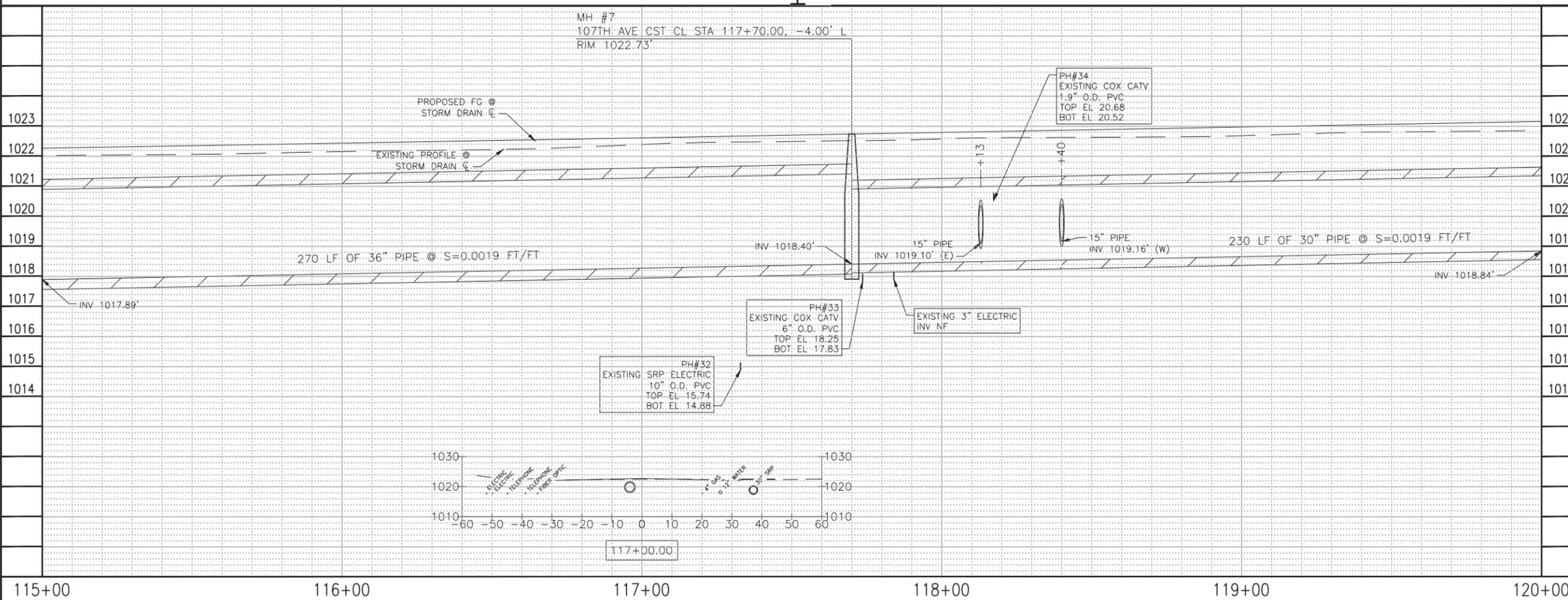
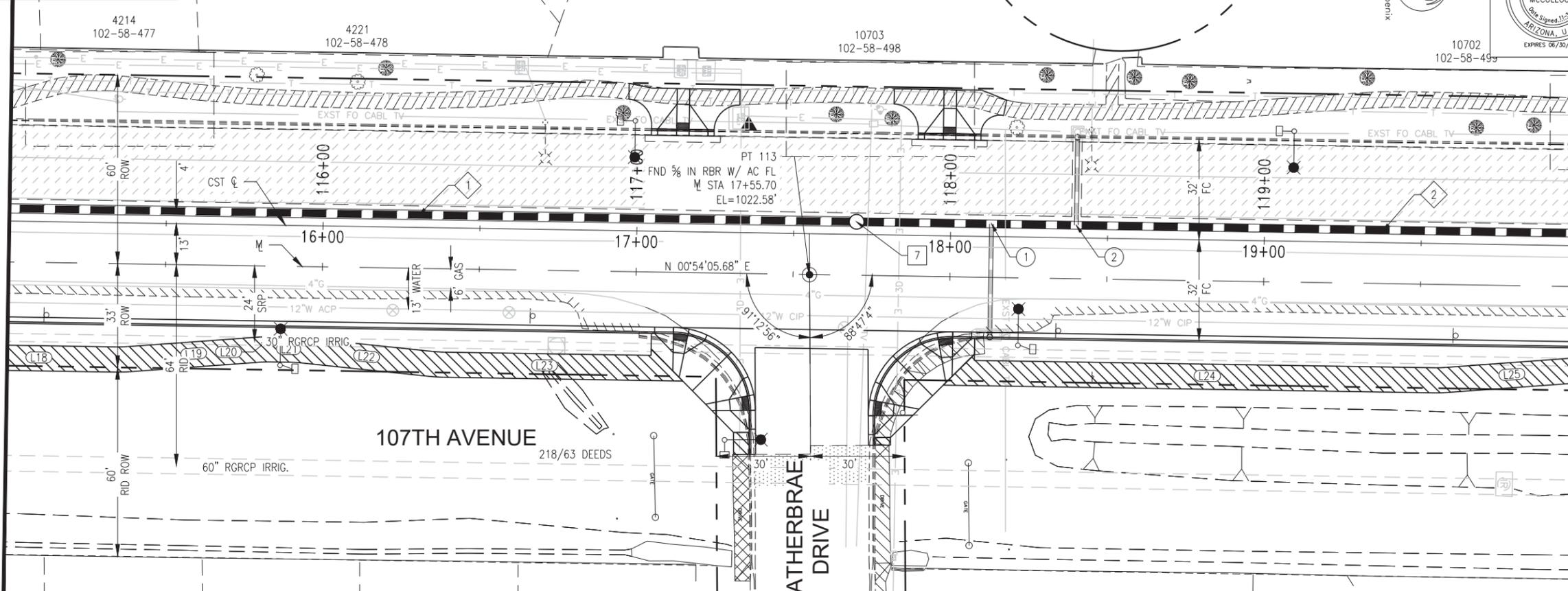
NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

MATCH LINE STA 115+00 - SEE SHEET 22

MATCH LINE STA 120+00 - SEE SHEET 24



SEE SHT 10 FOR PAVING PLAN
SEE SHT 28 FOR CONNECTOR PIPE

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."



STORM DRAIN

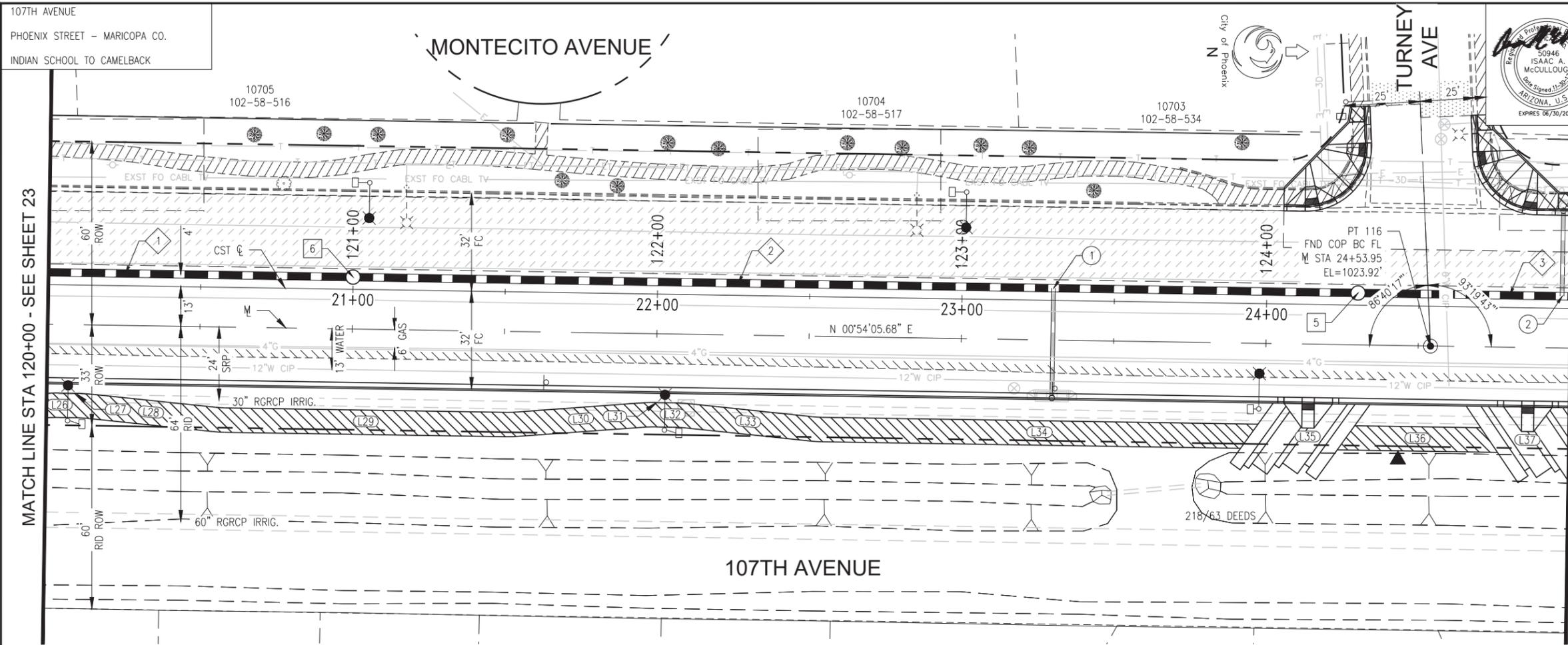
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: IAM	DES: IAM	CK: MAL	SHEET NO: 23	TOTAL SHEETS: 72
DATE: 11/17	DATE: 11/17	DATE: 11/17		

SCALE: 1" = 20' H.
1" = 2' V.

STXXXXXXXXXXPP. 1/17/07



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	24	72

STANLEY CONSULTANTS INC.
CONSULTING ENGINEER

DES: IAM DR: IAM CK: MAL DATE: 11/17

STORM DRAIN PIPE			
NO.	STATION TO STATION	SIZE	LF
1	120+00.00 TO 121+00.00	30"	100
2	121+00.00 TO 124+30.00	30"	330
3	123+30.00 TO 125+00.00	30"	70

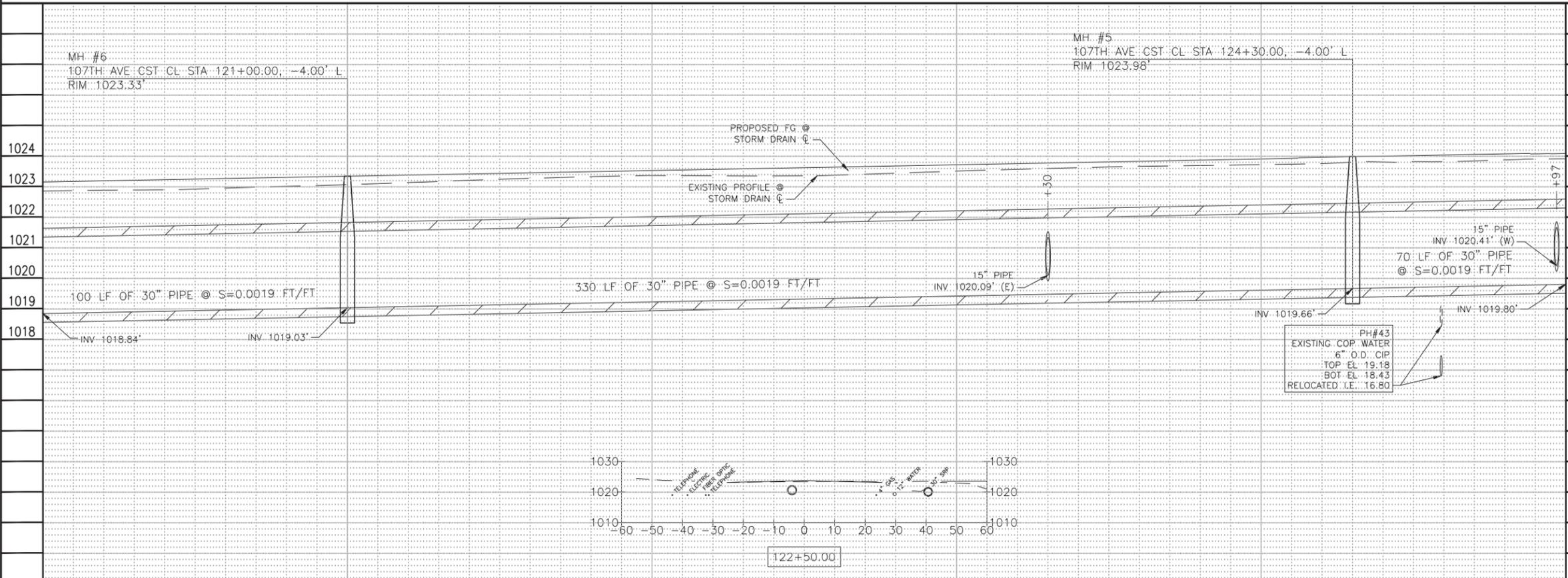
PREFABRICATED TEE		
NO.	STATION	SIZE
1	123+30.00, RT	30" X 30" X 15"
2	124+97.00, LT	30" X 30" X 15"

STORM DRAIN MANHOLE		
NO.	STATION	TYPE
6	121+00.00, 4.00' LT	MAG DET 522 & DET P1520
5	124+30.00, 4.00' LT	MAG DET 522 & DET P1520

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



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

ARIZONA 811
Arizona One-Call Law
Dial 8-1-1 or 1-800-243-4847 (TUE-6348) in Maricopa County (602) 263-1100

SEE SHT 11 FOR PAVING PLAN
SEE SHT 28 & 29 FOR CONNECTOR PIPE

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

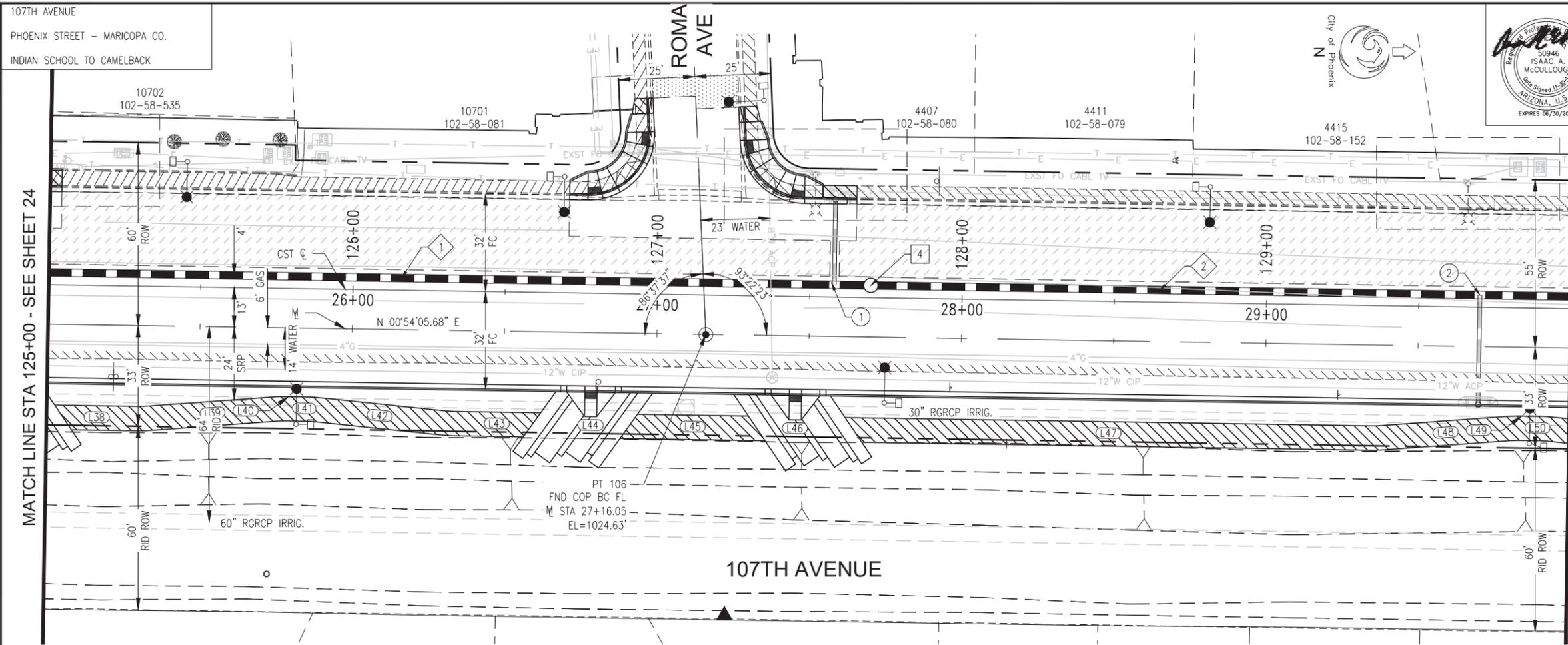
STORM DRAIN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: IAM	DES: IAM	CK: MAL	SHEET NO: 24	TOTAL SHEETS: 72
DATE: 11/17	DATE: 11/17	DATE: 11/17		

SCALE: 1" = 20' H.
1" = 2' V.

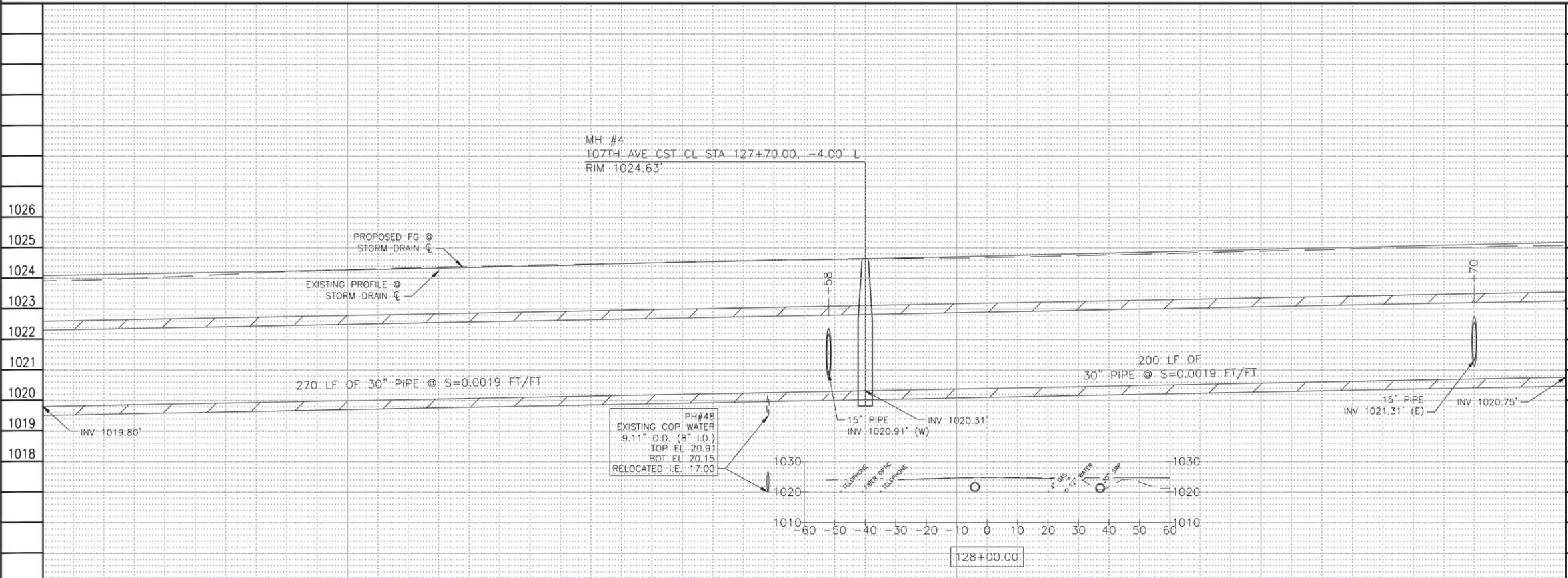


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	25	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: IAM	DR: IAM	CK: MAL	DATE: 11/17	
STORM DRAIN PIPE				
NO.	STATION TO STATION	SIZE	LF	
1	125+00.00 TO 127+70.00	30"	270	
2	127+70.00 TO 130+00.00	30"	230	
PREFABRICATED TEE				
NO.	STATION	SIZE		
1	127+58.00, LT	30" X 30" X 15"		
2	129+70.00, RT	30" X 30" X 15"		
STORM DRAIN MANHOLE				
NO.	STATION	TYPE		
4	127+70.00, 4.00' LT	MAG DET 522 & DET P1520		

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.				



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

ARIZONA 811
Arizona 811 State Inc.
Dial 8-1-1 or 1-800-874-8847 (725-8348)
In Maricopa County: (602) 263-1100

SEE SHT 12 FOR PAVING PLAN
SEE SHT 29 FOR CONNECTOR PIPE

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

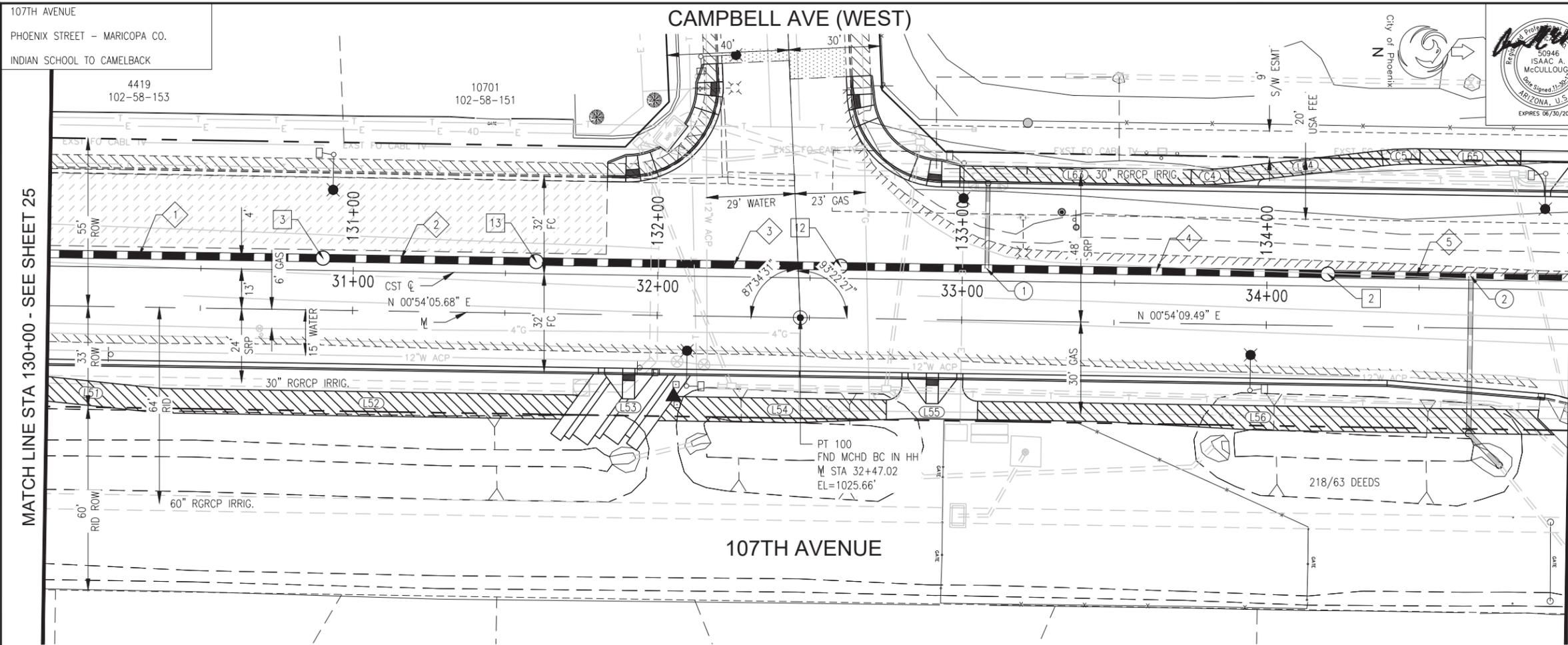
STORM DRAIN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: IAM	DES: IAM	CK: MAL	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	25	72
SCALE: 1" = 20' H.		1" = 2' V.		

STXXXXXXXXPP. 1/1/07



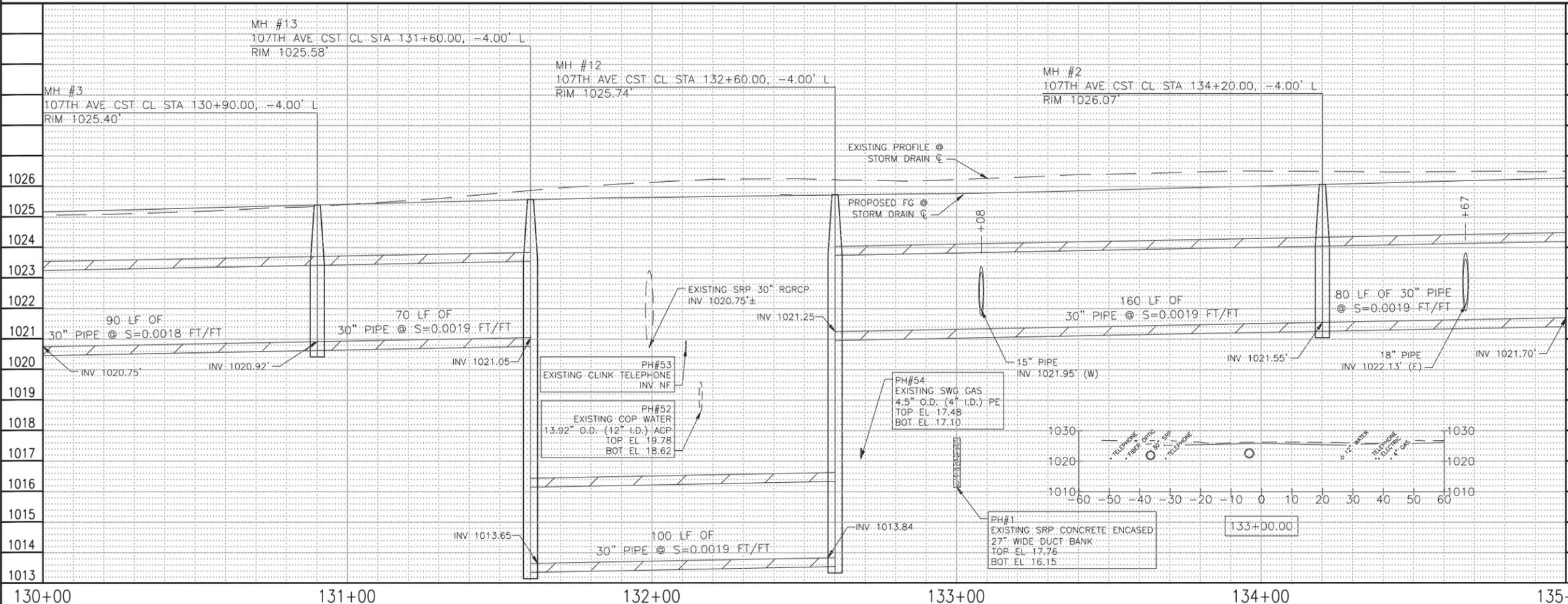
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	26	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: IAM	DR: IAM	CK: MAL	DATE: 11/17	

STORM DRAIN PIPE			
NO.	STATION TO STATION	SIZE	LF
1	130+00.00 TO 130+90.00	30"	90
2	130+90.00 TO 131+60.00	30"	70
3	131+60.00 TO 132+60.00	30"	100
4	132+60.00 TO 134+20.00	30"	160
5	134+20.00 TO 135+00.00	30"	80

PREFABRICATED TEE		
NO.	STATION	SIZE
1	133+08.00, LT	30" X 30" X 15"
2	134+67.00, RT	30" X 30" X 18"

STORM DRAIN MANHOLE		
NO.	STATION	TYPE
3	130+90.00, 4.00' LT	MAG DET 522 & DET P1520
2	134+20.00, 4.00' LT	MAG DET 522 & DET P1520
12	132+60.00, 4.00' LT	*MAG DET 522 & DET P1520
13	131+60.00, 4.00' LT	*MAG DET 522 & DET P1520

*MODIFIED, SEE DETAIL D ON SHT 32



SEE SHT 13 FOR PAVING PLAN
SEE SHT 29 & 30 FOR CONNECTOR PIPE

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."



STORM DRAIN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

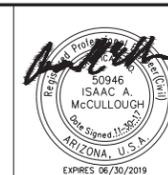
107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: IAM	DES: IAM	CK: MAL	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	26	72
SCALE: 1" = 20' H. 1" = 2' V.				

NO.	DESCRIPTION	REV BY	CHK BY	DATE

STXXXXXXXXPP. 1/1/07

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	30	72

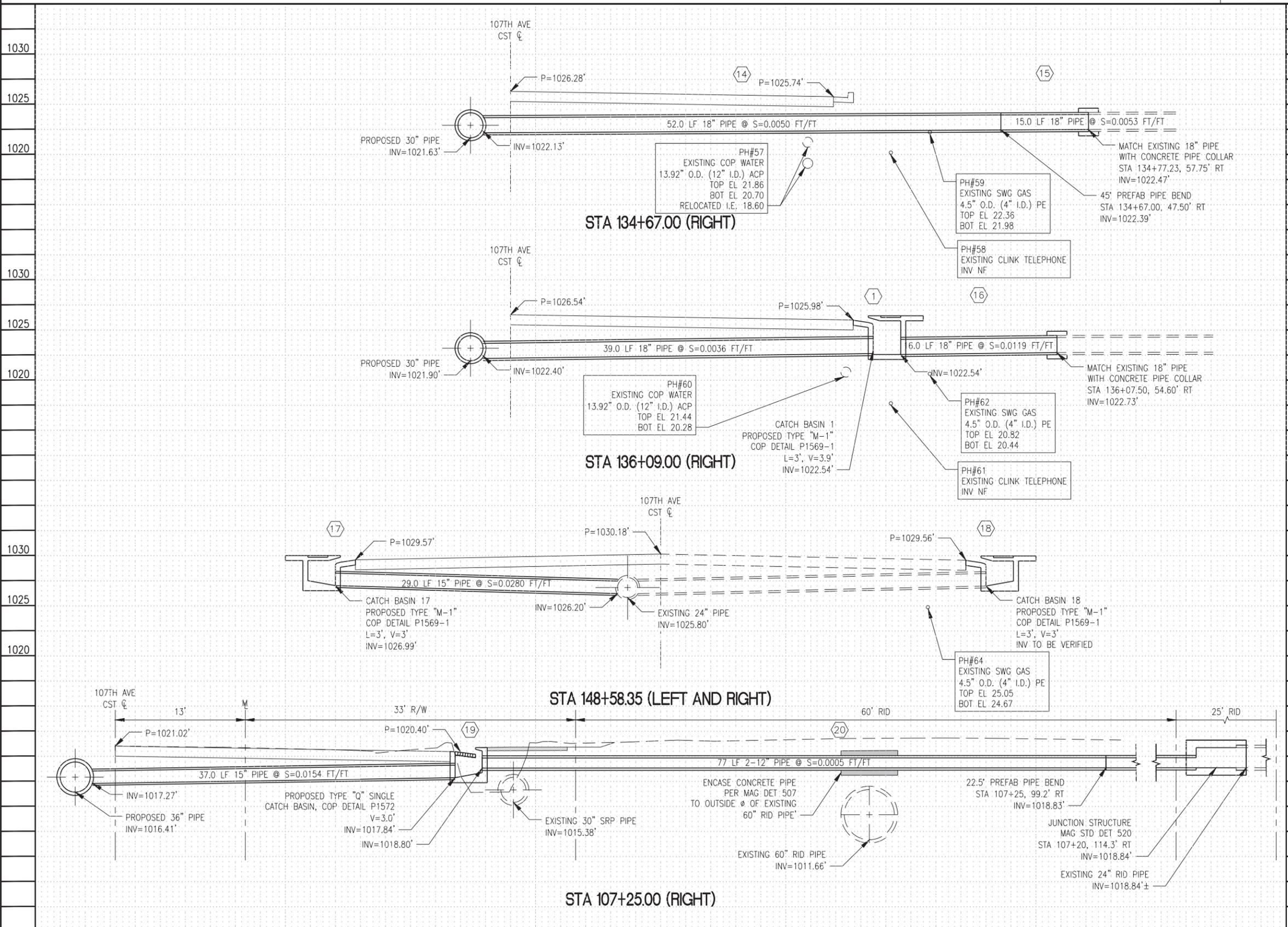
STANLEY CONSULTANTS INC.
CONSULTING ENGINEER

DES: IAM DR: IAM CK: MAL DATE: 11/17

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

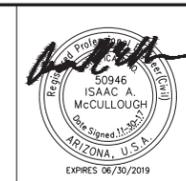


CONNECTOR PIPE PROFILES
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: IAM	DES: IAM	CK: MAL	SHEET NO: 30	TOTAL SHEETS: 72
DATE: 11/17	DATE: 11/17	DATE: 11/17		
SCALE: 1" = 5' H.		SCALE: 1" = 5' V.		

STXXXXXXXXXX.PP. 1/1/07

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	31	72

STANLEY CONSULTANTS INC.
CONSULTING ENGINEER

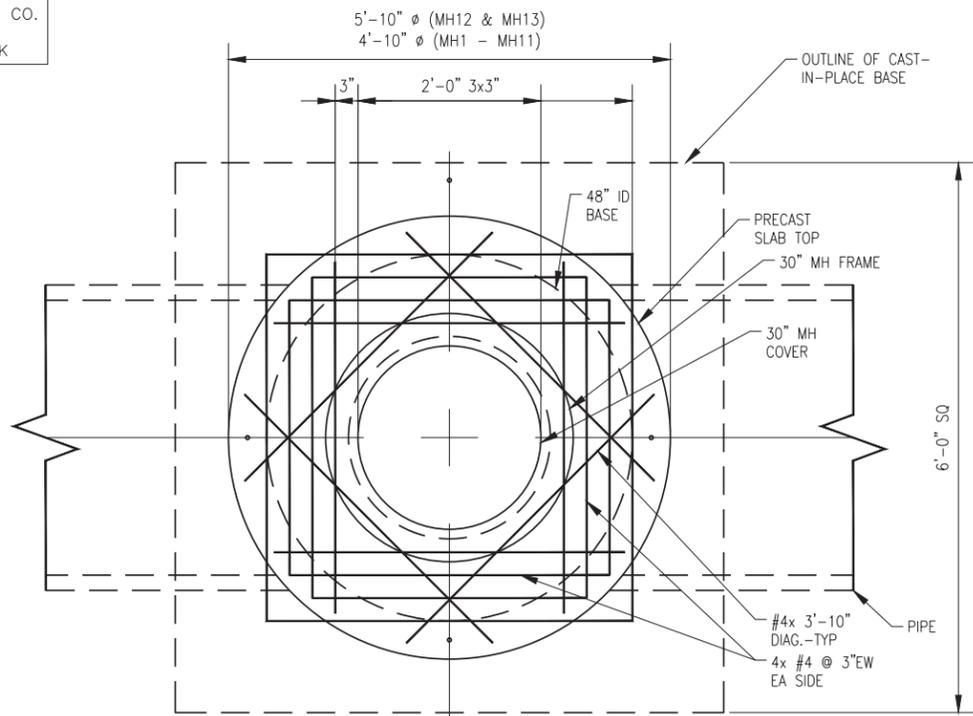
DES: IAM	DR: IAM	CK: MAL	DATE: 11/17
----------	---------	---------	-------------

NO.	DESCRIPTION	REV BY	CHK BY	DATE

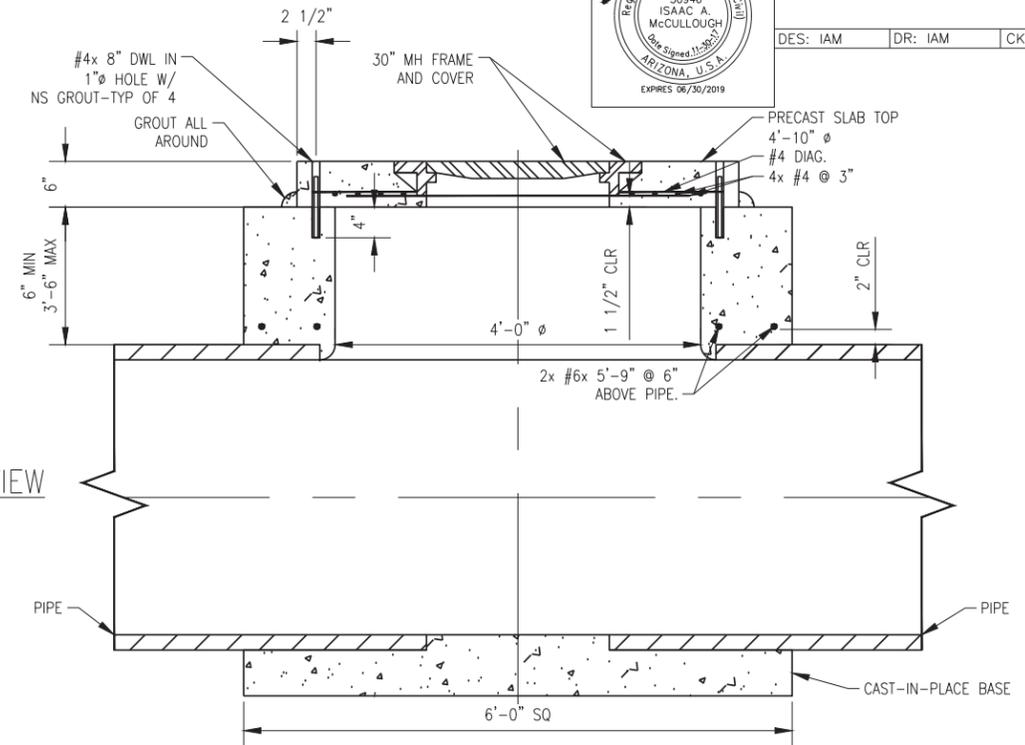
NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

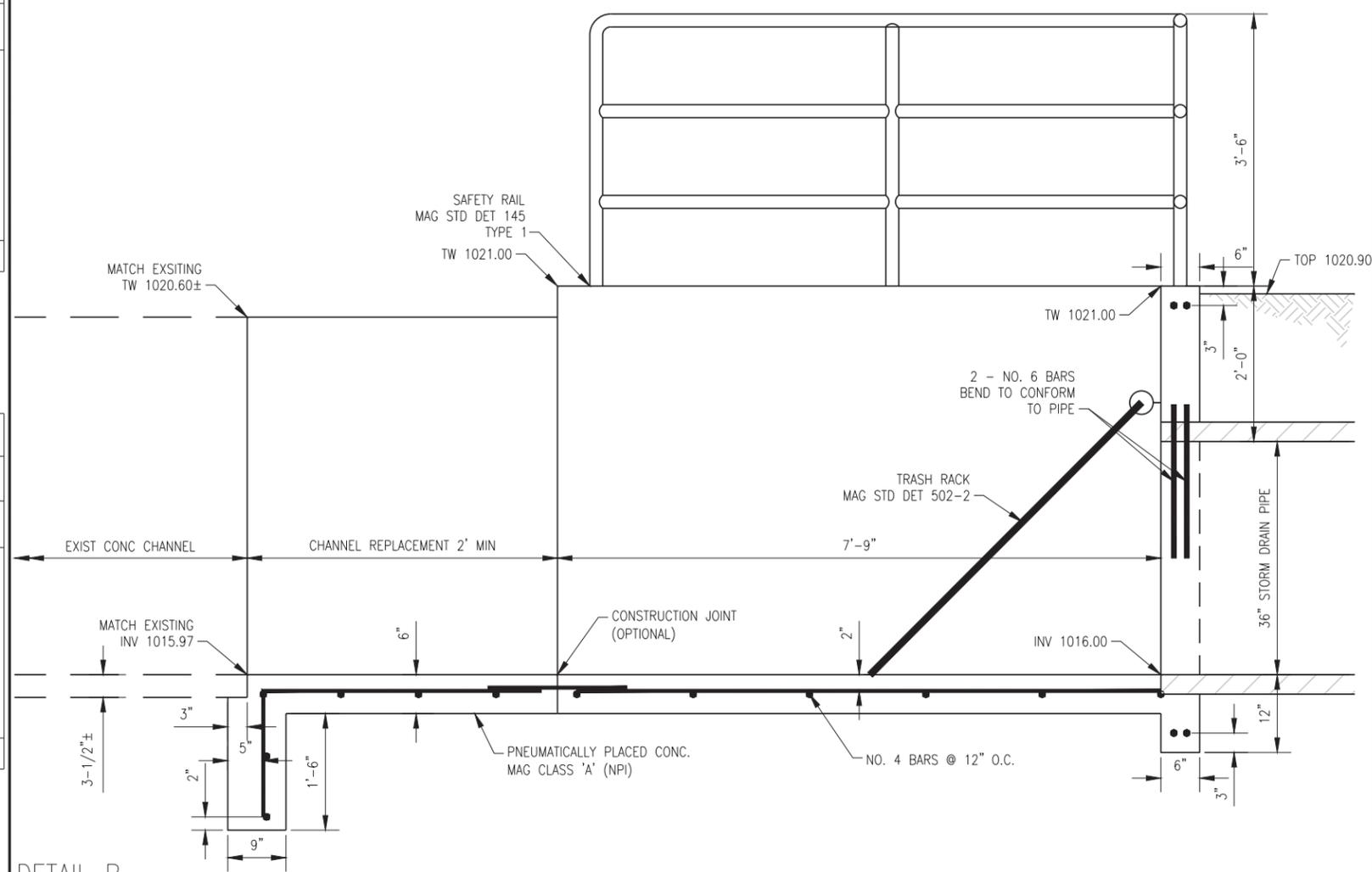
PLAN VIEW



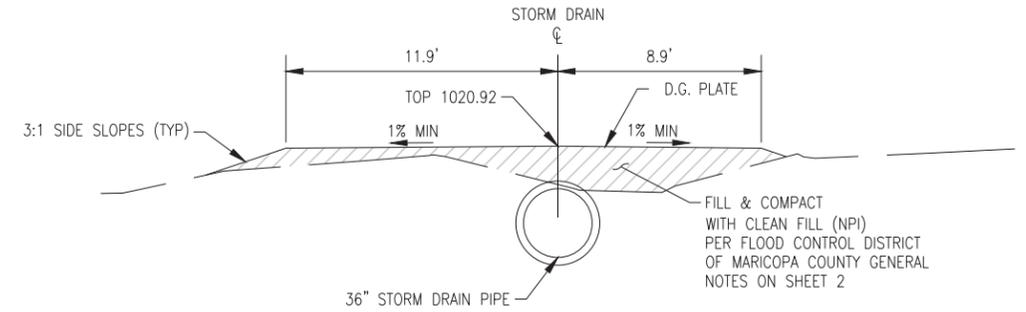
SECTION VIEW



DETAIL A
STORM DRAIN MAHOLE



DETAIL B
HEADWALL, MODIFIED MAG STD DET 501-4



DETAIL C
STORM DRAIN PIPE COVER

C 20 SECTION
INDIAN SCHOOL RD STA 198+56.03, -60.21' L=
107TH AVE CL STA 106+52.47, -134.12' L



"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

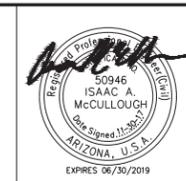
DRAINAGE DETAIL
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: IAM	DES: IAM	CK: MAL	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	31	72

SCALE: 1" = 1' H.
1" = 1' V.

STXXXXXXXXPP, 1/1/07

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK

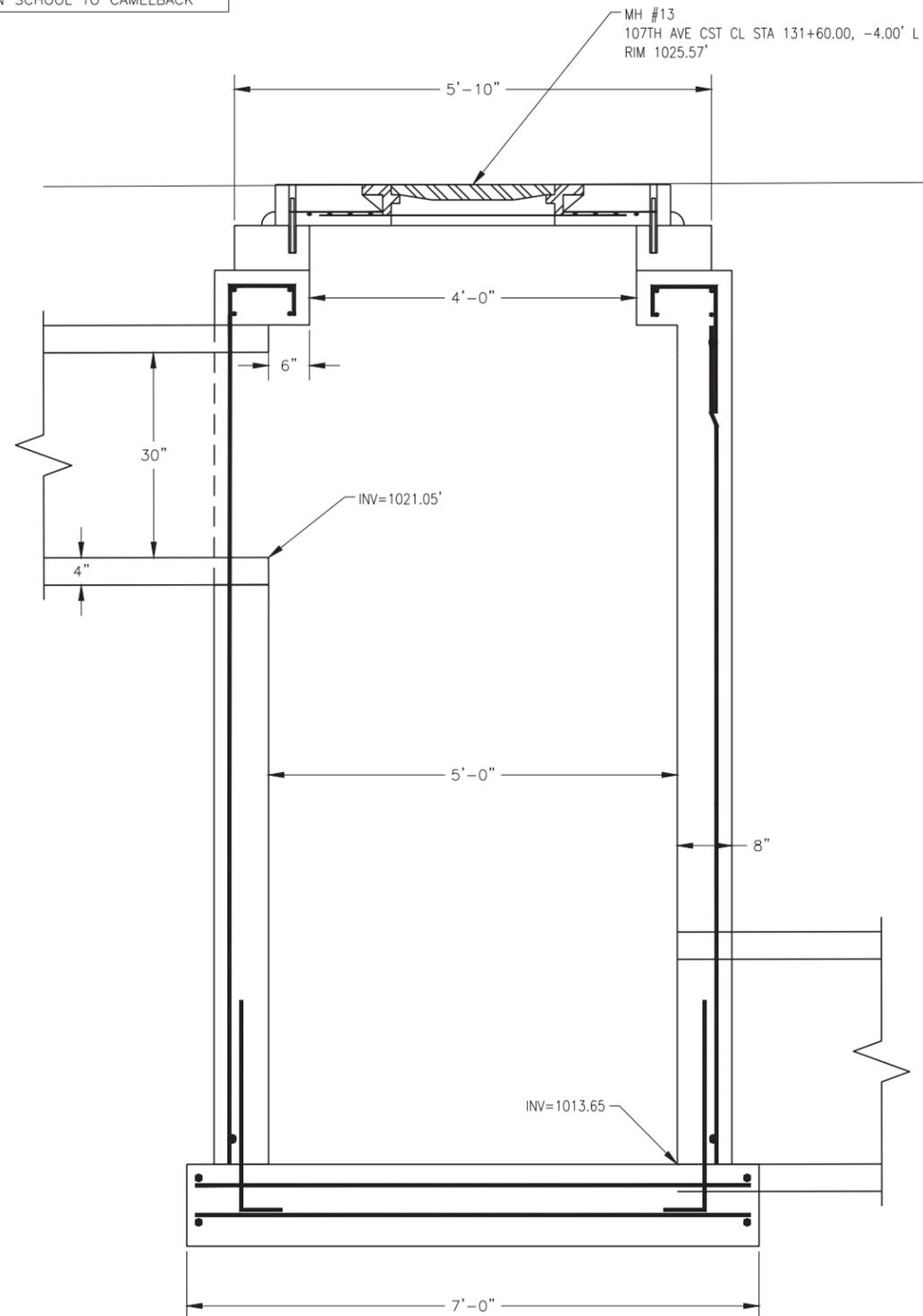


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	32	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: IAM	DR: IAM	CK: MAL	DATE: 11/17	

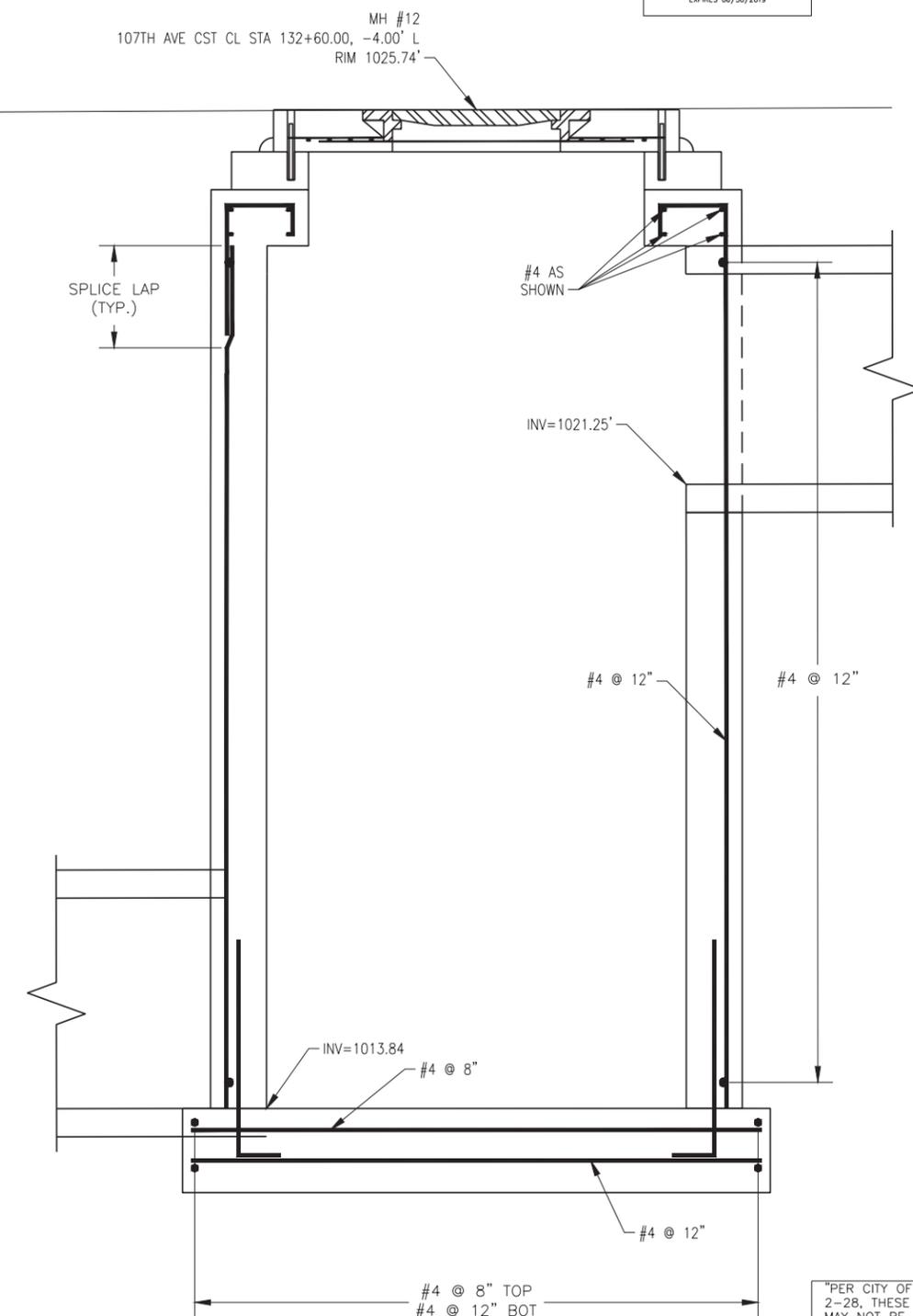
NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



APPROXIMATE PROPOSED FG



"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

DRAINAGE DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

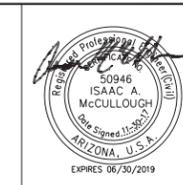
107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: IAM	DES: IAM	CK: MAL	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	32	72
SCALE: 1" = 1' H.			1" = 1' V.	

DETAIL D
VAULT

STXXXXXXXXXX.PP. 1/1/17

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	33	72

STANLEY CONSULTANTS INC.
CONSULTING ENGINEER

DES: IAM DR: IAM CK: MAL DATE: 11/17

REVISION BY CITY OF PHOENIX

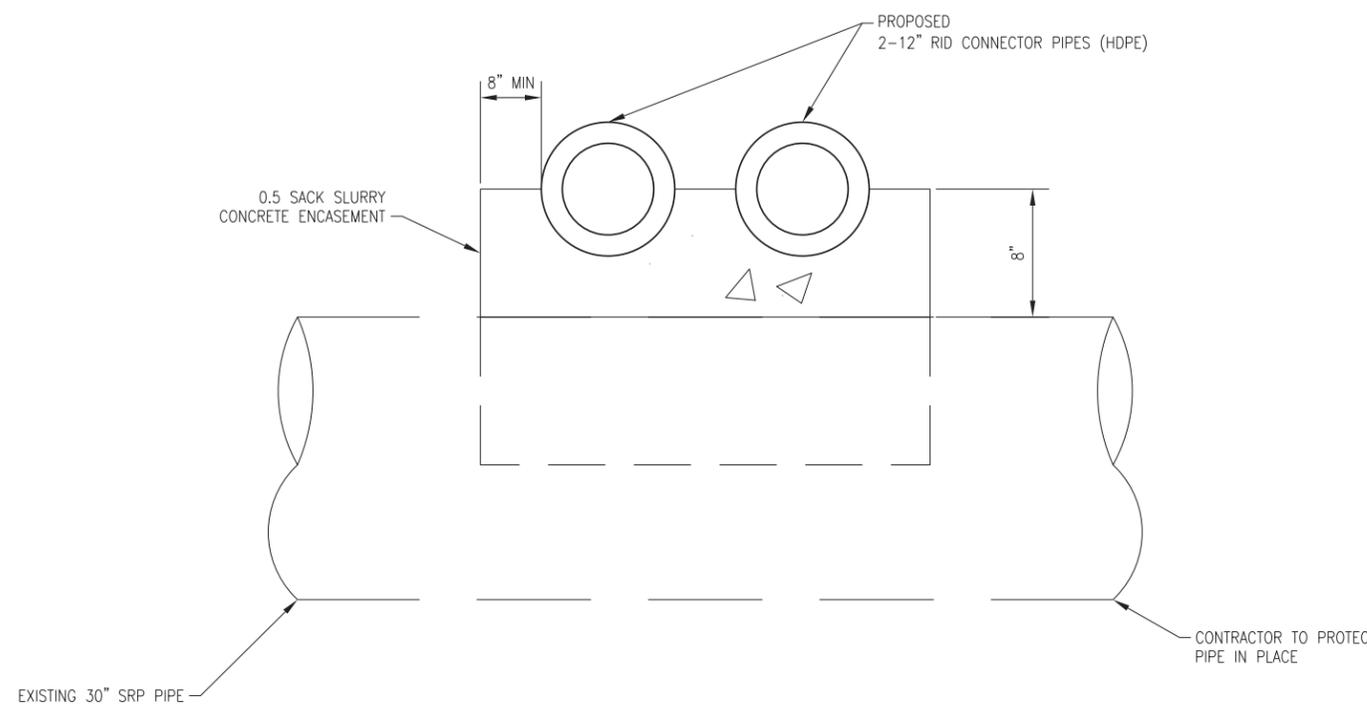
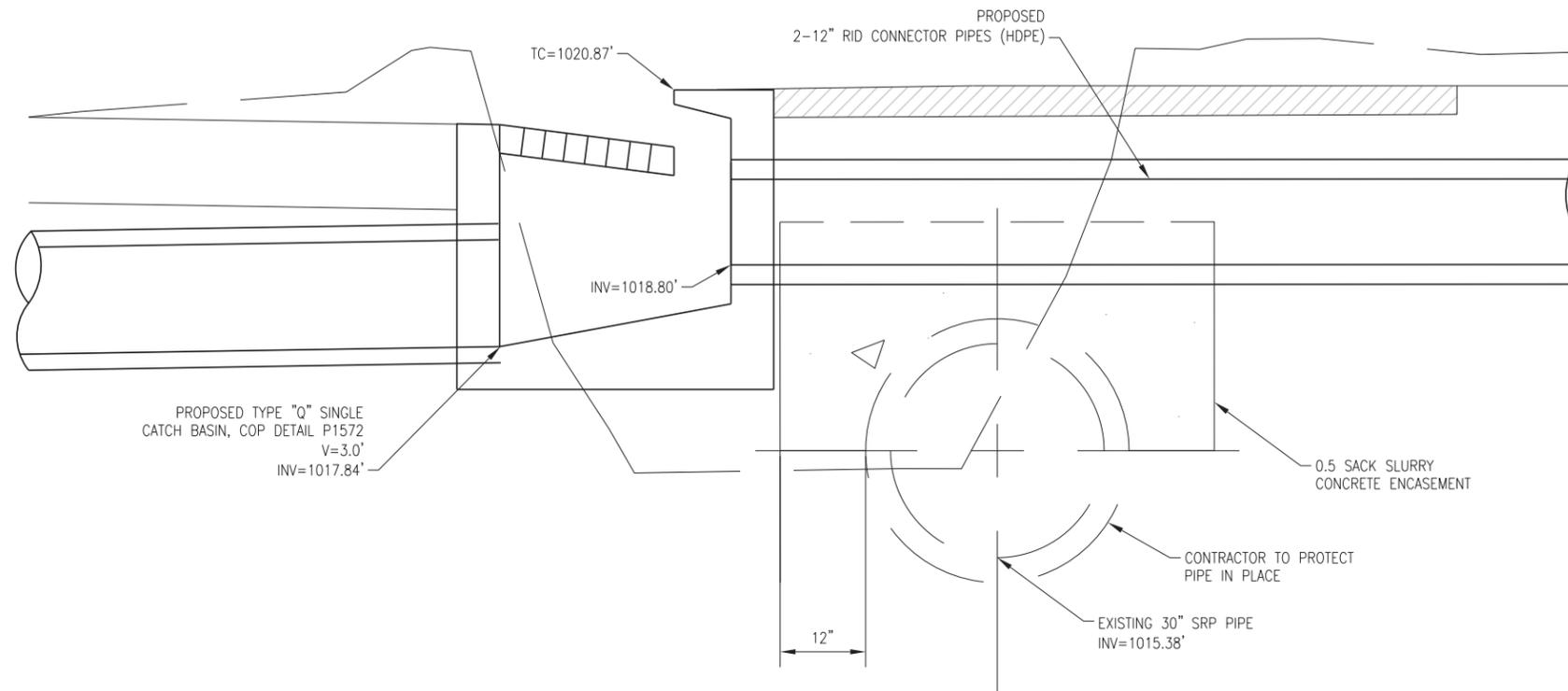
NO.	DESCRIPTION	REV BY	CHK BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE



DETAIL E
CONCRETE ENCASMENT RID CONNECTOR
PIPE AND SRP PIPE CROSSING



"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

DRAINAGE DETAIL

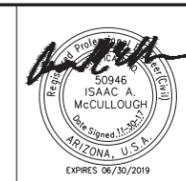
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: IAM	DES: IAM	CK: MAL	SHEET NO: 33	TOTAL SHEETS: 72
DATE: 11/17	DATE: 11/17	DATE: 11/17		
SCALE: 1" = 1' H.		1" = 1' V.		

STXXXXXXXXPP, 1/1/07

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	36	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: IAM	DR: IAM	CK: MAL	DATE: 11/17	

NO.	DESCRIPTION	REV BY	CHK BY	DATE

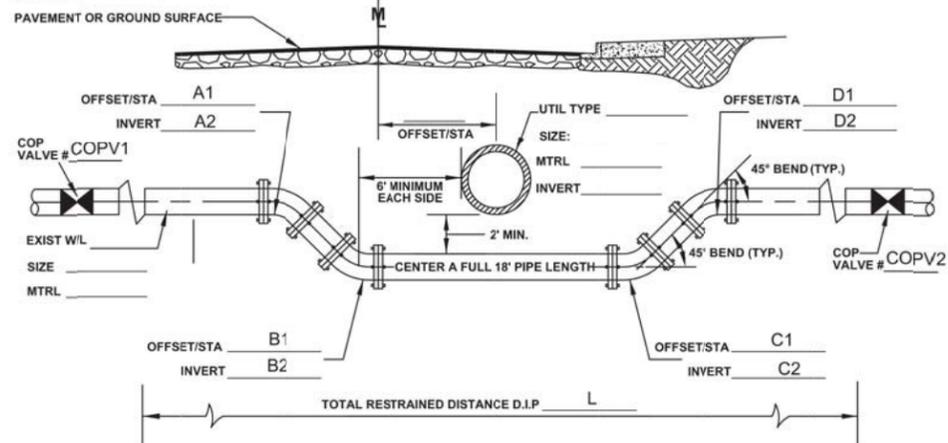
NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

City of Phoenix - Water Services Dept / Planning & Development Dept
Vertical Realignment of 12" and Smaller Water Mains Standard Detail DCE-D01

PROJECT NAME: 107th Ave Indian School to Camelback LOCATION: Phoenix AZ
PROJ / KIVA / CCPR / CSPR / WSPR #: ST87100161

BEGIN STA 0+00 AT NEAREST PLATTED STREET (ML) INTERSECTION: Indian School Rd & 107th Avenue
Q.S.#: 17-2 & 18-2



RECORD DRAWING CERTIFICATION: I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED ENGINEER _____ DATE _____
REGISTRATION # _____

ENGINEER: _____
CONTACT: _____
ADDRESS: _____
PHONE #: _____

ENGINEER'S SEAL _____ AS-BUILT SEAL _____

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

For City Use Only:

Approved By: _____ Date: _____
Dept. Approval P&D WSD
Plan Reviewer _____

Sheet 1 of 2 Refer to Sheet 2 of 2 for Construction Notes

City of Phoenix - Water Services Dept / Planning & Development Dept
Vertical Realignment of 12" and Smaller Water Mains Standard Detail DCE-D01

PROJECT NAME: 107th Ave Indian School to Camelback LOCATION: Phoenix AZ
PROJ / KIVA / CCPR / CSPR / WSPR #: ST87100161

VERTICAL REALIGNMENT CONSTRUCTION NOTES

ALL CONSTRUCTION SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE UNIFORM STANDARD DETAILS AND SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) AND THE CITY OF PHOENIX (COP) SUPPLEMENTAL(SUPPL) STANDARD (STD) DETAILS (DTL) AND SPECIFICATIONS.

APPROVED RESTRAINT JOINTS SHALL BE PER COP SUPPL SUBSECTION 750.3 AND MAG STD DTL 303-1 AND 303-2.

RESTRAIN ALL PIPE JOINTS, SEPARATION AND CLEARANCE PER COP STD DTL P1370.

ALL ELEVATIONS SHOWN HERE ARE RELATIVE TO EACH OTHER.

TRAFFIC REGULATIONS SHALL BE PER CITY OF PHOENIX "TRAFFIC BARRICADE POLICY".

COMPACTION SHALL COMPLY WITH MAG SPEC 601- 95% MINIMUM IN A PUBLIC STREET.

A PAVEMENT CUT SURCHARGE MAY BE ASSESSED TO PROJECTS TRENCHING IN NEWLY PAVED OR OVERLAID PAVEMENT.

PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER MAG SEC. 336, COP STD. DTL P1200 - TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER MAG STD DTL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER COP DTL P1230. AT THE DISCRETION OF THE COP INSPECTOR, TUNNELING UNDER EXISTING CURB AND GUTTER, IN COP ROW, WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE COP ROW.

PLAN APPROVAL IS VALID FOR 180 DAYS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.

PER THE CITY OF PHOENIX ORDINANCE G-4396, THIS PLAN IS FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX.

THE FOLLOWING DISCLAIMER CAN ONLY BE USED FOR LOCAL OR RESIDENTIAL STREETS. FOR MAJOR AND COLLECTOR STREETS, UTILITY CONFLICT NOTICES SHALL BE PROVIDED:

I HEREBY CERTIFY THAT ALL UTILITY COMPANIES WITH FACILITIES IN THE AREA OF THIS PROJECT HAVE BEEN CONTACTED AND THE DATA PROVIDED IS SHOWN ON THIS PLAN. I AGREE TO INDEMNIFY, DEFEND, SAVE AND HOLD HARMLESS THE CITY OF PHOENIX, ITS OFFICERS, OFFICIALS, AGENTS, EMPLOYEES AND VOLUNTEERS FROM ANY AND ALL CLAIMS, DEMANDS, ACTIONS, LIABILITIES, DAMAGES, LOSSES, OR EXPENSES INCURRED FOR ANY UTILITY CONFLICTS THAT MAY ARISE.

ENGINEER'S SIGNATURE, SEAL AND DATE _____

Sheet 2 of 2
Revised: September 23, 2011 DMFD S:\200\DM_SHARED\200DM_WSPD\Drawings\Details\DCE-001Detail

WATER LINE VERTICAL REALIGNMENT

CST CL STA	NEW STORM DRAIN (RCP)				EXST W/L		INDICATE NORTH	CROSSING ANGLE	VERTICAL REALIGNMENT														
	Off	SIZE	MATERIAL	INVERT	SIZE	MATERIAL			A1	A2	B1	B2	C1	C2	D1	D2	COPV1	COPV2	L				
108+85.07	4.0' LT	36"	RCP	1016.7	8"	ACP	UP	90'	108+85.07	17.8' LT	1017.2	108+85.07	13.5' LT	1013.5	108+85.07	5.5' RT	1013.5	108+85.07	9.8' RT	1017.2	422	133	33'
111+35.42	4.0' LT	36"	RCP	1017.2	8"	ACP	UP	90'	111+35.42	17.1' LT	1017.3	111+35.42	13.5' LT	1014.0	111+35.42	5.5' RT	1014.0	111+35.42	9.1' RT	1017.3	421	134	31'
111+50.00	13' RT	15"	RCP	1018.2	12"	ACP	LT	90'	111+37.20	13.0' RT	1016.1	111+40.40	13.0' RT	1013.9	111+59.60	13.0' RT	1013.9	111+62.80	13.0' RT	1016.1	135	137	31'
114+40.43	4.0' LT	36"	RCP	1017.7	8"	ACP	UP	90'	114+40.43	15.8' LT	1015.8	114+40.43	13.5' LT	1014.0	114+40.43	5.5' RT	1014.0	114+40.43	7.8' RT	1015.8	424		29'
123+30.00	26.5' RT	15"	RCP	1020.5	12"	CIP	LT	90'	123+17.20	26.5' RT	1018.4	123+20.40	26.5' RT	1016.2	123+39.60	26.5' RT	1016.2	123+42.80	26.5' RT	1018.4	220	217	31'
124+59.10	4.0' LT	30"	RCP	1019.7	6"	CIP	UP	90'	124+59.10	15.6' LT	1018.4	124+59.10	13.4' LT	1016.8	124+59.10	5.4' RT	1016.8	124+59.10	7.6' RT	1018.4	328		28'
127+37.18	4.0' LT	30"	RCP	1020.2	8"	ACP	UP	90'	127+37.18	17.3' LT	1020.2	127+37.18	13.5' LT	1017.0	127+37.18	5.5' RT	1017.0	127+37.18	9.3' RT	1020.2	217	301	32'
129+70.00	27.4' RT	15"	RCP	1022.0	12"	ACP	LT	90'	129+57.20	27.4' RT	1020.0	129+60.40	27.4' RT	1017.8	129+79.60	27.4' RT	1017.8	129+82.80	27.4' RT	1020.0	217	218	31'
134+67.00	29.5' RT	18"	RCP	1022.3	12"	ACP	LT	90'	134+54.20	29.5' RT	1020.8	134+57.40	29.5' RT	1018.6	134+76.60	29.5' RT	1018.6	134+79.80	29.5' RT	1020.8	218	123	31'



"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

WATER LINE VERTICAL REALIGNMENT
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

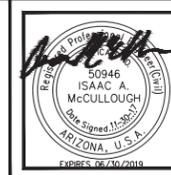
DR: IAM	DES: IAM	CK: MAL	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	36	72
SCALE: NTS				

STXXXXXXXXXX.P 11/17/07

CITY OF PHOENIX STREET LIGHTING

107th AVENUE

INDIAN SCHOOL ROAD TO CAMELBACK ROAD



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	37	72
DR: IAM		DES: EDL	CK: MAL	DATE: 11/17
Stanley Consultants inc.		1661 East Camelback Road, Suite 400 Phoenix, Arizona 85016 Phone: (602) 333-2200		

SALT RIVER PROJECT (SRP) NOTES

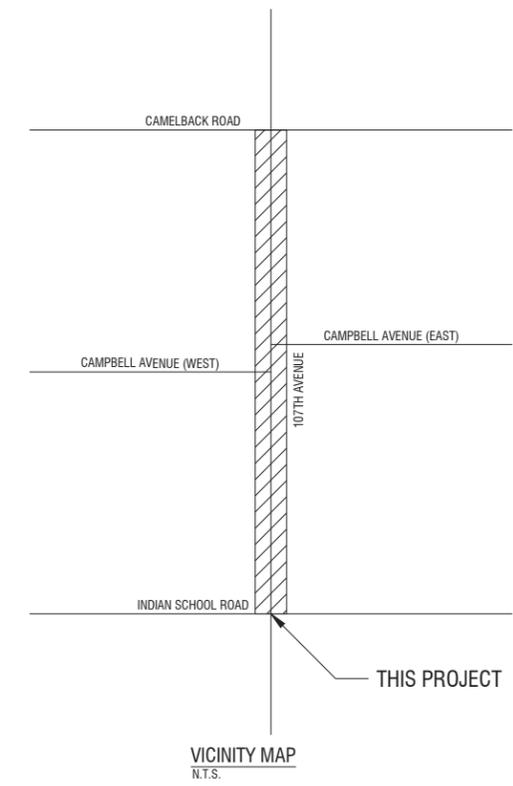
- CONTRACTOR SHALL CALL SRP FOR A PRE-CONSTRUCTION MEETING PRIOR TO ANY EXCAVATION AT (602) 236-6300.
- CONTRACTOR WILL SUPPLY ALL TRENCHING AND CONDUIT IF REQUESTED BY THE COP PROJECT MANAGER.
- CONTRACTOR WILL STAKE STREET LIGHTS PER CITY OF PHOENIX APPROVED STREET LIGHT CONSTRUCTION DRAWINGS.
- GRADE STAKE WILL BE SET WITHIN TWO (2) FEET OF J-BOX LOCATION.
- CONTRACTOR WILL COORDINATE WITH SRP AND CITY OF PHOENIX FOR DE-ENERGIZING OF STREETLIGHT CONDUCTOR.
- GROUND ROD WILL BE PROVIDED AND INSTALLED BY CONTRACTOR IN SRP J-BOX AT EACH STREETLIGHT LOCATION.
- #6 BARE COPPER GROUND WIRE TO BE ATTACHED FROM GROUNDING LUG ON STREETLIGHT POLE TO GROUND ROD IN J-BOX.
- 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.
- ALL TRENCHING AND CONDUIT TO BE INSPECTED BY SRP. DO NOT BACKFILL UNTIL INSPECTED.
- 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.
- 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 FROM OTHER UTILITIES.
- 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.
- RETAINING WALLS ARE REQUIRED ADJACENT TO EQUIPMENT WHERE THE GRADE SLOPE IS GREATER THAN 30° IN 12'.
- ALL CONDUIT STUB OUTS ARE TO BE CAPPED AND MARKED WITH ELECTRONIC MARKER AND 7" RED FLAG MARKING RIBBON.
- HARD CAPS ARE TO BE USED FOR ALL STUB OUTS BELOW GRADE.
- 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.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INTEGRITY OF ALL CONDUITS UNTIL SRP HAS INSTALLED CONDUCTORS.
- 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.
- SEE DUCT BANK SPECIFICATIONS FOR ALL DUCT BANK ENCASEMENT REQUIREMENTS.

LED STREETLIGHT NOTES

- INSTALL ONE 133W LED (14,817 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38' - 6" POLE WITH A 3' X 8' MAST ARM PER DETAIL 8040, POLE CODE 1944.38X. INSTALL (3) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL SRP JUNCTION BOX ADJACENT TO POLE, SEE DETAIL WG1 ON SHEET 41 FOR JUNCTION BOX INSTALLATION DETAIL.
- INSTALL ONE 133W LED (14,817 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 43' - 8" DAVIT POLE WITH A 15' MAST ARM. INSTALL (3) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL SRP JUNCTION BOX ADJACENT TO POLE, SEE DETAIL WG1 ON SHEET 41 FOR JUNCTION BOX INSTALLATION DETAIL.
- INSTALL ONE 40W LED (4,059 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 30'-6" POLE WITH A 3' X 8' MAST ARM PER DETAIL 8040 POLE CODE 1944.30. INSTALL (3) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL SRP JUNCTION BOX ADJACENT TO POLE, SEE DETAIL WG1 ON SHEET 41 FOR JUNCTION BOX INSTALLATION DETAIL.
- REMOVE EXISTING STREET LIGHT POLE AND DISPOSE OF PROPERLY. COORDINATE WITH POWER COMPANY TO DE-ENERGIZE STREET LIGHT CIRCUIT.
- EXISTING STREET LIGHT MOUNTED ON POWER POLE TO BE REMOVED BY POWER COMPANY. CONTRACTOR TO COORDINATE WORK WITH POWER COMPANY.

STREET LIGHTING GENERAL NOTES

- THE FOLLOWING INFORMATION IS PROVIDED TO EMPHASIZE CRITICAL WORK AND IS INTENDED TO SUPPLEMENT THE SPECIFICATIONS.
- THE CONTRACTOR SHALL COMPLY WITH STATE AND CITY STATUTES AND ORDINANCES.
 - 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.
 - 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.
 - 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.
 - ONE DRY UTILITY PERMIT FOR EACH CITY OF PHOENIX STREET LIGHT PROJECT SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 - 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.
 - STREET LIGHTS ARE INSPECTED BY THE CITY OF PHOENIX STREETLIGHTING INSPECTOR. WHEN ACCEPTED AND ENERGIZED THE CONTRACTOR WILL INSTALL POLE NUMBERS PRIOR TO INSPECTION.
 - LUMINAIRES SHALL BE INSTALLED LEVEL AND INCLUDE A PHOTOCELL. THE LUMINAIRES SHALL BE FREE OF DUST, DIRT OR ANYTHING THAT WOULD IMPAIR THE OUTPUT OF THE LIGHT.
 - POLE SHALL BE SET PLUMB IN TWO DIRECTIONS, NINETY (90) DEGREES APART.
 - SURPLUS EXCAVATION SHALL BE DISPOSED OF BY THE CONTRACTOR.
 - WIRING SHALL BE INSTALLED PER SERVING UTILITY COMPANY STANDARDS. CONDUIT SHALL BE INSTALLED AT THE DEPTH SPECIFIED ON THEIR PLANS.
 - CONDUIT MUST BE LISTED AND LABELED AND SUITABLE FOR UNDERGROUND USE.
 - 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.
 - EXCAVATION FOR PULL BOXES AND MATERIAL SPECIFICATIONS SHALL BE PER SERVING UTILITY COMPANY STANDARDS.
 - TRENCH SHALL BE INSTALLED PER SERVING UTILITY COMPANY STANDARDS. THE USE OF A COMMON ELECTRIC UTILITY COMPANY TRENCH IS PERMITTED.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANY FOR COORDINATION OF THE TRENCHING AND THE INSTALLATION OF CONDUIT.
 - 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.
 - 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.
 - 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. THE CONTRACTOR SHALL PROVIDE TO THE CITY A TEN-YEAR MANUFACTURER'S WARRANTY FOR THE LED LUMINAIRE (FIXTURE ONLY).
 - 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 ONE YEAR GUARANTEE SHALL BE REPLACED WITHOUT COST TO THE CITY.



LEGEND

- ▣ NEW STREETLIGHT POLE
- ⋈ EXISTING STREET LIGHT POLE
- STREET LIGHT JUNCTION BOX PER SRP STANDARDS

SHEET INDEX

COVER SHEET	37
SITE PLANS	38 - 40
DETAIL SHEET	41

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	25	34'-3"	38'-6"	3'X8'	CEM-TEC MS-1944 VALMONT CB09159 SOUTHWEST FABRICATION, LLC 386RDB	14,817	LED	133 W	120/240 AS POWER CO. REQUIRES	COBRAHEAD	AMERICAN ELECTRIC AUTOBAHN ATBM F MVOLT R2 27K MP NL P7 RFD234943
2	ARTERIAL	24	35'	43'-8"	15' DAVIT	CEM-TEC MS-1944 VALMONT CB09159 SOUTHWEST FABRICATION, LLC 386RDB	14,817	LED	133 W	120/240 AS POWER CO. REQUIRES	COBRAHEAD	AMERICAN ELECTRIC AUTOBAHN ATBM F MVOLT R2 27K MP NL P7 RFD234943
3	LOCAL	6	27'-3"	30'-6"	3'X8'	CEM-TEC MS-1944 VALMONT CB09159 SOUTHWEST FABRICATION, LLC 386RDB	4,059	LED	40 W	120/240 AS POWER CO. REQUIRES	COBRAHEAD	AMERICAN ELECTRIC AUTOBAHN ATBS E MVOLT R2 27K MP NL P7 RFD233637

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



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

STREET LIGHT COVER SHEET

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE

INDIAN SCHOOL ROAD TO CAMELBACK ROAD

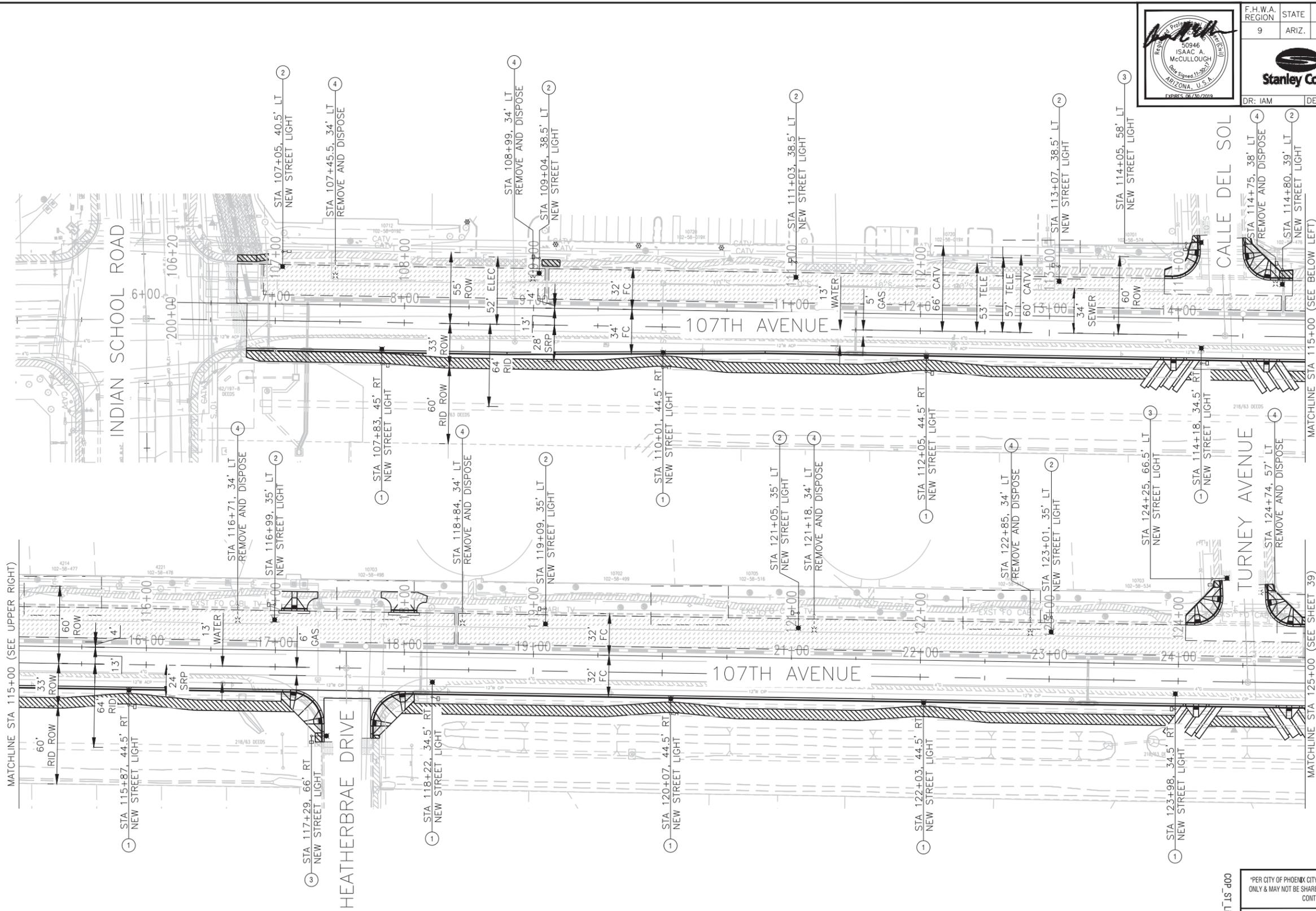
PROJECT #:	ST87100161	FILE NO.:	
DR: IAM	DES: EDL	CK: MAL	SHEET NO.:
DATE: 11/17	DATE: 11/17	DATE: 11/17	TOTAL SHEETS
SCALE: NTS	OS. #:		37 / 72

COP_ST_Light_Template_2012.dwg OCT/01/12 11:31am

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	38	72

1661 East Camelback Road, Suite 400 Phoenix, Arizona 85016 Phone: (602) 333-2200	
Stanley Consultants inc.	

DR: IAM	DES: EDL	CK: MAL	DATE: 11/17
---------	----------	---------	-------------



- LEGEND**
- NEW STREETLIGHT POLE (SEE NOTE FOR DESCRIPTION)
 - ⊗ EXISTING STREETLIGHT POLE
 - STREETLIGHT JUNCTION BOX PER SRP STANDARDS

LED STREETLIGHT NOTES

- 1 INSTALL ONE 133W LED (14,817 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38' - 6" POLE WITH A 3' X 8' MAST ARM PER DETAIL 8040. POLE CODE 1944.3BX. INSTALL (3) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL SRP JUNCTION BOX ADJACENT TO POLE. SEE DETAIL W61 ON SHEET 41 FOR JUNCTION BOX INSTALLATION DETAIL.
- 2 INSTALL ONE 133W LED (14,817 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 43' - 8" DAVIT POLE WITH A 15' MAST ARM. INSTALL (3) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL SRP JUNCTION BOX ADJACENT TO POLE. SEE DETAIL W61 ON SHEET 41 FOR JUNCTION BOX INSTALLATION DETAIL.
- 3 INSTALL ONE 40W LED (4,059 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 30'-6" POLE WITH A 3' X 8' MAST ARM PER DETAIL 8040. POLE CODE 1944.30. INSTALL (3) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL SRP JUNCTION BOX ADJACENT TO POLE. SEE DETAIL W61 ON SHEET 41 FOR JUNCTION BOX INSTALLATION DETAIL.
- 4 REMOVE EXISTING STREET LIGHT POLE AND DISPOSE OF PROPERLY. COORDINATE WITH POWER COMPANY TO DE-ENERGIZE STREET LIGHT CIRCUIT.
- 5 EXISTING STREET LIGHT MOUNTED ON POWER POLE TO BE REMOVED BY POWER COMPANY. CONTRACTOR TO COORDINATE WORK WITH POWER COMPANY.

(602) 263-1100

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

STREET LIGHT LAYOUT

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL ROAD TO CAMELBACK ROAD

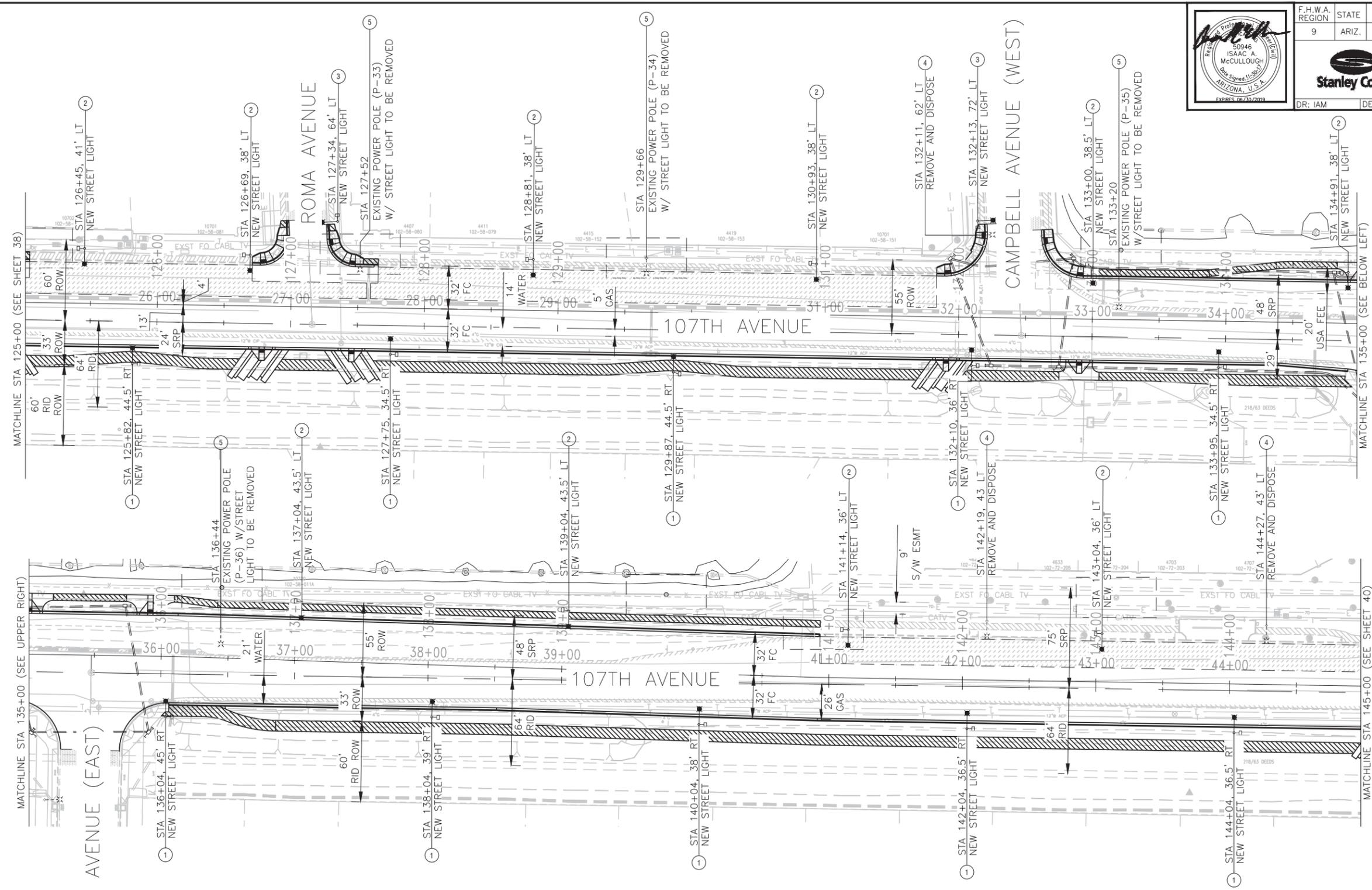
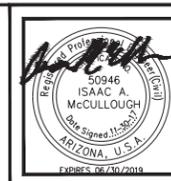
PROJECT #:	ST87100161	FILE NO.:	
DR: IAM	DES: EDL	CK: MAL	SHEET NO.:
DATE: 11/17	DATE: 11/17	DATE: 11/17	TOTAL SHEETS:
SCALE: 1" = 40'	OS. #:		38 / 72



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	39	72

1661 East Camelback Road, Suite 400
Phoenix, Arizona 85016
Phone: (602) 333-2200

DR: IAM DES: EDL CK: MAL DATE: 11/17



LEGEND

- NEW STREETLIGHT POLE (SEE NOTE FOR DESCRIPTION)
- EXISTING STREETLIGHT POLE
- STREETLIGHT JUNCTION BOX PER SRP STANDARDS

LED STREETLIGHT NOTES

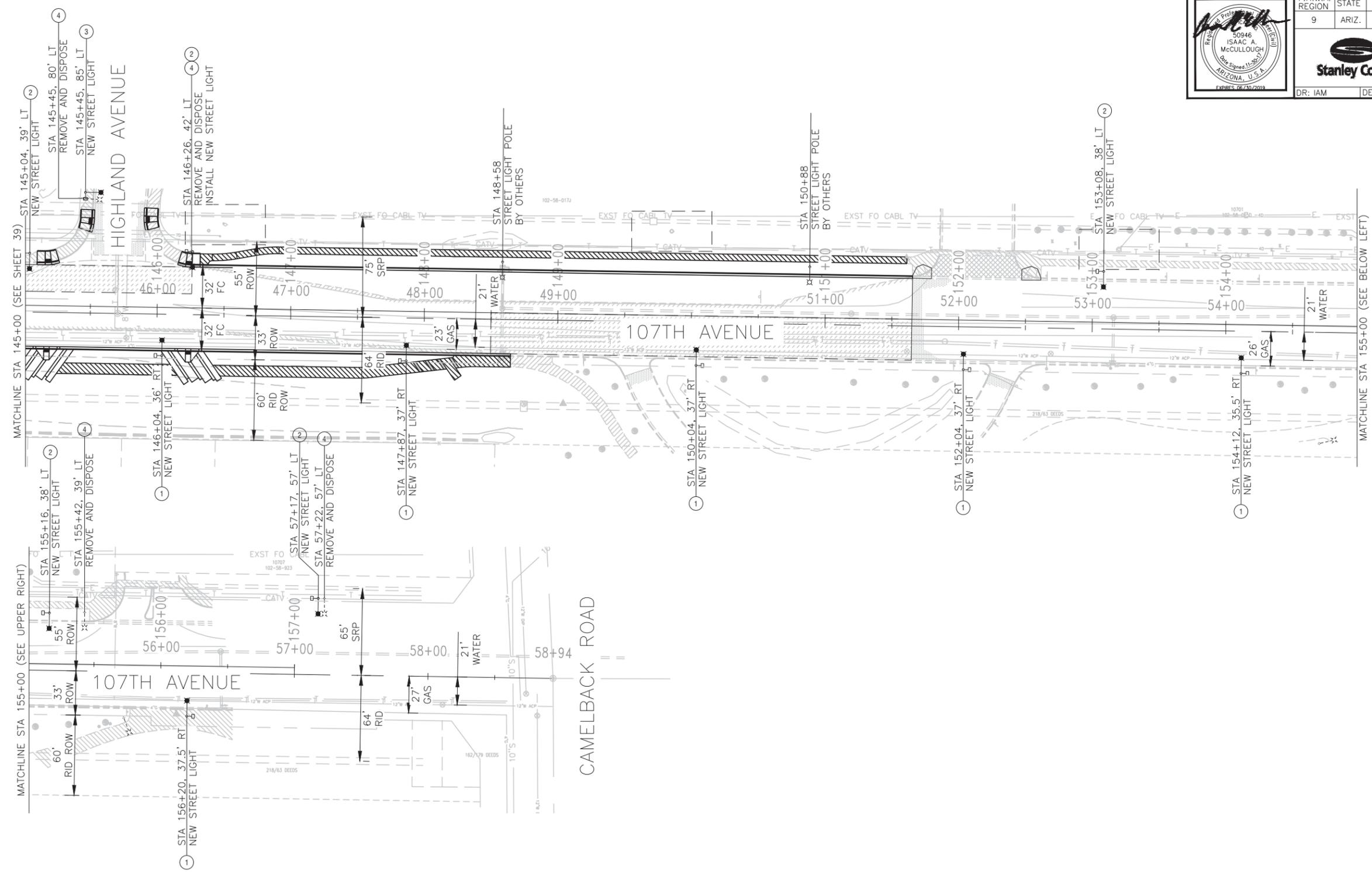
- 1 INSTALL ONE 133W LED (14,817 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38' - 6" POLE WITH A 3' X 8' MAST ARM PER DETAIL 8040. POLE CODE 1944.3BX. INSTALL (3) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL SRP JUNCTION BOX ADJACENT TO POLE. SEE DETAIL W61 ON SHEET 41 FOR JUNCTION BOX INSTALLATION DETAIL.
- 2 INSTALL ONE 133W LED (14,817 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 43' - 8" DAVIT POLE WITH A 15' MAST ARM. INSTALL (3) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL SRP JUNCTION BOX ADJACENT TO POLE. SEE DETAIL W61 ON SHEET 41 FOR JUNCTION BOX INSTALLATION DETAIL.
- 3 INSTALL ONE 40W LED (4,059 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 30'-6" POLE WITH A 3' X 8' MAST ARM PER DETAIL 8040 POLE CODE 1944.30. INSTALL (3) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL SRP JUNCTION BOX ADJACENT TO POLE. SEE DETAIL W61 ON SHEET 41 FOR JUNCTION BOX INSTALLATION DETAIL.
- 4 REMOVE EXISTING STREET LIGHT POLE AND DISPOSE OF PROPERLY. COORDINATE WITH POWER COMPANY TO DE-ENERGIZE STREET LIGHT CIRCUIT.
- 5 EXISTING STREET LIGHT MOUNTED ON POWER POLE TO BE REMOVED BY POWER COMPANY. CONTRACTOR TO COORDINATE WORK WITH POWER COMPANY.

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

STREET LIGHT LAYOUT			
CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT			
107TH AVENUE INDIAN SCHOOL ROAD TO CAMELBACK ROAD			
PROJECT #:	ST87100161	FILE NO.:	
DR:	IAM	DES:	EDL
DATE:	11/17	CK:	MAL
		DATE:	11/17
SCALE:	1" = 40'	OS. #:	-
SHEET NO.:	39	TOTAL SHEETS:	72



	F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
	9	ARIZ.	ST87100161	40	72
			1661 East Camelback Road, Suite 400 Phoenix, Arizona 85016 Phone: (602) 333-2200		
DR: IAM	DES: EDL	CK: MAL	DATE: 11/17		



LEGEND

- NEW STREETLIGHT POLE (SEE NOTE FOR DESCRIPTION)
- STREETLIGHT POLE BY OTHERS
- EXISTING STREETLIGHT POLE
- STREETLIGHT JUNCTION BOX PER SRP STANDARDS

LED STREETLIGHT NOTES

1. INSTALL ONE 133W LED (14,817 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38' - 6" POLE WITH A 3' X 8' MAST ARM PER DETAIL 8040. POLE CODE 1944.38X. INSTALL (3) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL SRP JUNCTION BOX ADJACENT TO POLE. SEE DETAIL W61 ON SHEET 41 FOR JUNCTION BOX INSTALLATION DETAIL.
2. INSTALL ONE 133W LED (14,817 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 43' - 8" DAVIT POLE WITH A 15' MAST ARM. INSTALL (3) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL SRP JUNCTION BOX ADJACENT TO POLE. SEE DETAIL W61 ON SHEET 41 FOR JUNCTION BOX INSTALLATION DETAIL.
3. INSTALL ONE 40W LED (4,059 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 30'-6" POLE WITH A 3' X 8' MAST ARM PER DETAIL 8040 POLE CODE 1944.30. INSTALL (3) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL SRP JUNCTION BOX ADJACENT TO POLE. SEE DETAIL W61 ON SHEET 41 FOR JUNCTION BOX INSTALLATION DETAIL.
4. REMOVE EXISTING STREET LIGHT POLE AND DISPOSE OF PROPERLY. COORDINATE WITH POWER COMPANY TO DE-ENERGIZE STREET LIGHT CIRCUIT.
5. EXISTING STREET LIGHT MOUNTED ON POWER POLE TO BE REMOVED BY POWER COMPANY. CONTRACTOR TO COORDINATE WORK WITH POWER COMPANY.



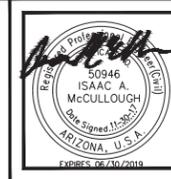
PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

STREET LIGHT LAYOUT

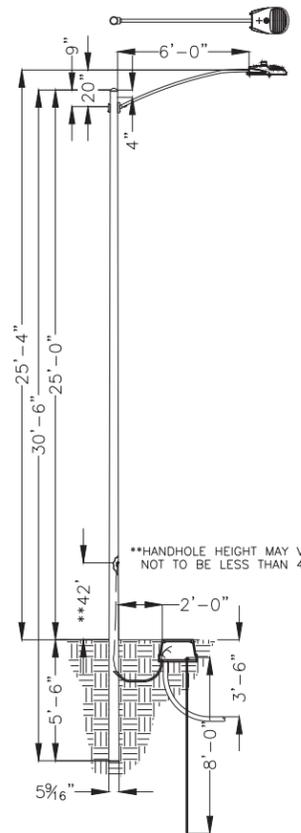
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL ROAD TO CAMELBACK ROAD

PROJECT #:	ST87100161	FILE NO.:	
DR: IAM	DES: EDL	CK: MAL	SHEET NO. TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	40 72
SCALE: 1" = 40'	OS. #:		



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	41	72
Stanley Consultants Inc.		1661 East Camelback Road, Suite 400 Phoenix, Arizona 85016 Phone: (602) 333-2200		
DR: IAM	DES: EDL	CK: MAL	DATE: 11/17	



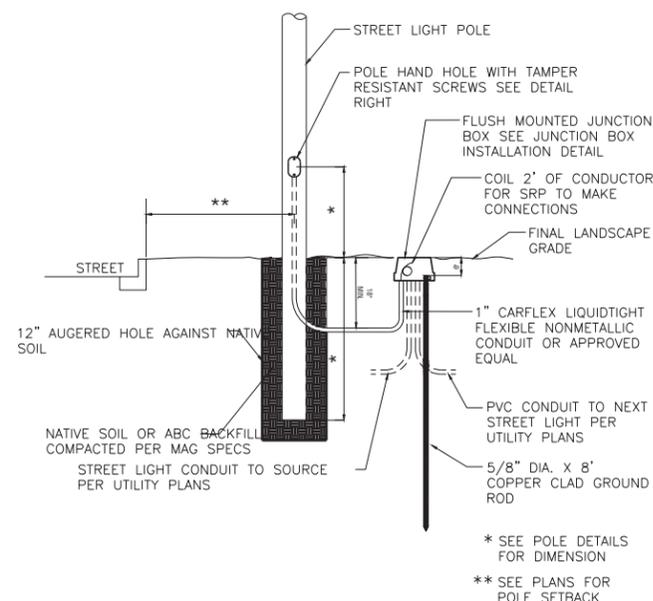
CONSTRUCTION NOTES:

- ADJUST PHOTO EYE TO FACE NORTH
 - A GROUND ROD IS PROVIDED WITH THE JUNCTION BOX. WHERE A GROUND ROD CANNOT BE DRIVEN ALTERNATE GROUND SHALL BE USED. SEE 2449 THRU 2460 FOR APPROVED ALTERNATES.
 - THE 40'-6" SELF-SUPPORTING STEEL POLE AND ONE OF THE 38'-0", HAVE TWO, MANUFACTURER INSTALLED SIMPLEX FITTINGS 180 APART FOR DOUBLE ARMS.
 - APN 33701054 IS A POLE BAND ADAPTOR WITH A SIMPLEX FITTING. ADAPTOR IS REQUIRED FOR THE SECOND ARM IN DOUBLE ARM APPLICATIONS ON EXISTING PLES IN THE FIELD WITHOUT TWO SIMPLEX FITTINGS. SEE 8198 FOR AVAILABLE SIZES.
 - POLES THAT HAVE MORE THAN ONE LUMINAIRE REQUIRE A SEPARATE CIRCUIT WITH FUSING FROM THE J-BOX TO EACH LUMINAIRE.
- ENGINEERING NOTES:**
- THE LIGHT CODE PROVIDES TWO SAME WATTAGE LUMINAIRES WHEN DOUBLE ARM ARE SPECIFIED.
 - SEE SPEC 8130 - 8131 FOR IN-LINE FUSE FOR UNDERGROUND FEEDS.
 - SEE 8100 THRU 8107 FOR OVERHEAD ATTACHMENTS.

LIGHT CODE	COLOR	APN	TYPE	WATTS	MULTIVOLT	INITIAL LUMENS	PHOTOMETRIC CURVE
			LED	40	120 - 277V	4,059	ATBS E XXXXX R2 27K
			LED	70	120 - 277V	6,634	ATBM B XXXXX R2 27K
			LED	133	120 - 277V	14,817	ATBM F XXXXX R2 27K
			LED	164	120 - 277V	16,980	ATBL A XXXXX N2 27K
			LED	208	120 - 277V	21,877	ATB2 60BLED10 XXXXX R3 27K
			LED	274	120 - 277V	28,719	ATB2 80BLED10 XXXXX R3 27K

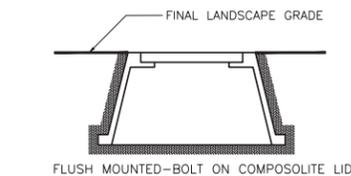
POLE TYPE	POLE CODE	POLE LENGTH	BURY DEPTH	POLE ABOVE GROUND	POLE BUTT DIAMETER	LUMINAIRE HEIGHT ABOVE GROUND ON ARM				
					STEP	TAPER	WEIGHT	20' X 6"	3' X 8"	8' X 8"
LOCAL	1944.30	30' - 6"	5' - 6"	25' - 0"	5-9/16"	7-5/16"	460	25' - 11"	27' - 3"	-
COLLECTOR	1944.38	38' - 6"	6' - 6"	32' - 0"	6-5/8"	9-3/4"	640	32' - 11"	34' - 3"	39' - 3"
ARTERIAL	1944.38	38' - 6"	6' - 6"	32' - 0"	6-5/8"	9-3/4"	640	32' - 11"	34' - 3"	39' - 3"

**FOR NON-STANDARD POLES, CONTACT THE STREET TRANSPORTATION STREETLIGHTING SECTION FOR INFORMATION.



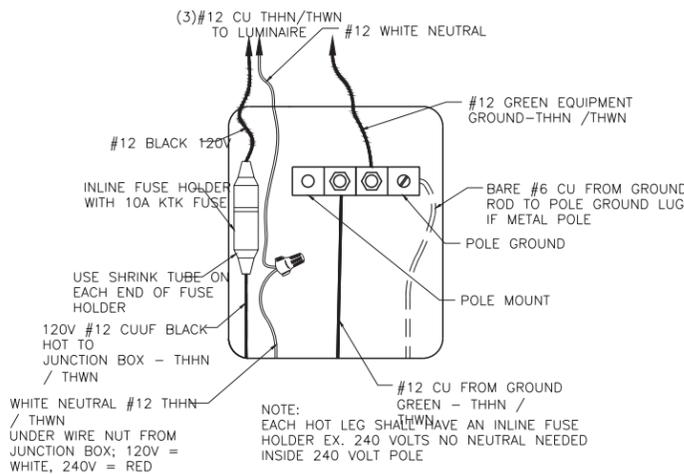
DESCRIPTION

15" X 21" X 12" JUNCTION BOX WITH 3/8" CAPTIVE PENTA HEAD BOLTS
WORD "ELECTRIC" ON COVER
BOX TO BE POLYMER CONCRETE MATERIAL WITH POLYMER CONCRETE BOLT DOWN (NON-CONDUCTIVE COVER).

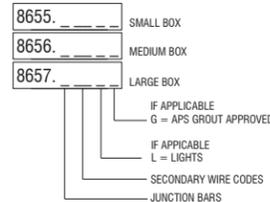


SRP APPROVED SUPPLIERS NUMBER	PART
STRONGWELL BOX	PC1118B513
PC1118C504-17/UH0390AA	COVER WITH
ELECTRIC	6001429A
ARMORCAST PRODUCTS	PA40-1015-12
CDR SYSTEMS	HLW111B-12
CARSON & ASSOCIATES BOX	HLW111B-PO LID

- * SEE POLE DETAILS FOR DIMENSION
- ** SEE PLANS FOR POLE SETBACK

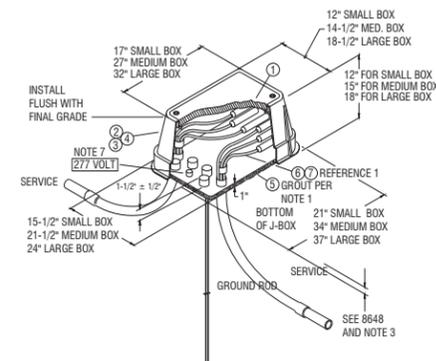


CODE	JUNCTION BARS
A	THREE-POSITION MOLDS
B	FIVE-POSITION MOLDS
C	EIGHT-POSITION MOLDS
D	TWO-POSITION GEL PACKS
N	NO CONNECTORS



NOTES:

- CONCRETE GROUT SHALL BE PREMIX, APN 71301280 OR EQUIVALENT.
- PENTA-HEAD BOLTS SHALL BE INSTALLED PRIOR TO ENERGIZING NEW UNDERGROUND SYSTEMS. LOST OR MISPLACED PENTA-HEAD BOLTS SHALL BE REPLACED WITH APN 71402608.
- BRINGING ALL CABLE/CONDUITS AND GROUND ROD INTO THE SAME END OF THE BOX TO ENABLE CABLES TO BE RAISED AND LOWERED EASILY. CONDUIT SWEEPS SHALL BE POSITIONED AND ALIGNED SO THAT WHEN TWO AND FOUR POSITION JUNCTION BARS ARE SPECIFIED, THE ST. LT., SECONDARY AND SERVICE CONDUITS SHALL BE INSTALLED AS SHOWN IN DETAIL "A". WHEN SIX POSITION JUNCTION BARS ARE SPECIFIED, THE ST. LT., SECONDARY AND SERVICE CONDUITS SHALL BE INSTALLED AS SHOWN IN DETAIL "B".
- COMPACTION BENEATH AND AROUND JUNCTION BOX SHALL BE A MINIMUM OF 85 PERCENT.
- REPLACEMENT LID FOR MEDIUM PLASTIC JUNCTION BOX IS 33100981. PENTAHEAD BOLTS AND EMS MARKER MUST BE REUSED FROM OLD LID.
- ADDITIONAL TRENCH DEPTH IS USUALLY REQUIRED AT ALL EQUIPMENT LOCATIONS. SEE 8648 FOR THE MINIMUM TRENCH DEPTHS AND THE DEGREE OF SLOPE ALLOWED AS THE TRENCH DEPTH CHANGES.
- ON 277 VOLT STREET LIGHT CIRCUITS, INSTALL "277 VOLT" RED MICARTA TAG (APN 00080796) PROVIDED BY SPEC 8129.
- TORQUE BOLTS TO 5 FT - LBS (60 IN - LBS).



ELECTRICAL REQUIREMENTS FOR NEW POLE INSTALLATION

- JUNCTION BOXES SHALL MEET UTILITY COMPANY STANDARDS.
- CONDUIT, CONDUCTORS, AND FUSE HOLDERS SHALL BE LISTED AND LABELED FOR USE IN A WET LOCATION WHEN USED IN A JUNCTION BOX. NEC300.5(B), 310.8(C)
- IN-LINE FUSE HOLDER USED IN HAND HOLE OR SERVICE DROP SHALL BE CONSIDERED AS DISCONNECTING MEANS. FUSE HOLDERS TO BE RATED AT 22,000 AIC MINIMUM. NEC 240.40
- ELECTRICAL CONNECTIONS-CONDUCTORS OF DISSIMILAR METALS SHALL NOT BE INTERMIXED IN A TERMINAL OR SPLICING CONNECTOR WHERE PHYSICAL CONTACT OCCURS BETWEEN DISSIMILAR CONDUCTORS, (COPPER, ALUMINUM) UNLESS THE DEVICE IS IDENTIFIED FOR THE PURPOSE AND CONDITIONS OF USE. NEC 110.14
- ELECTRICAL CONNECTIONS OR SPLICES IN AN UNDERGROUND INSTALLATION SHALL BE APPROVED FOR WET LOCATIONS. (NEC 300.5)
- NON-CURRENT CARRYING CONDUCTIVE MATERIALS ENCLOSING ELECTRICAL CONDUCTORS OR EQUIPMENT, OR FORMING PART OF SUCH EQUIPMENT, SHALL BE CONNECTED TO EARTH IN A MANNER THAT WILL LIMIT THE VOLTAGE IMPOSED BY LIGHTNING OR UNINTENTIONAL VOLTAGE DUE TO SHORT CIRCUITS AND LIMIT THE VOLTAGE TO GROUND ON THESE MATERIALS. NEC 250.4(B) (GROUND RODS)
- AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED FROM THE GROUND LUG IN THE HAND-HOLE TO THE LUMINAIRE WITH THE CURRENT CARRYING CONDUCTORS. NEC 410.30(B)(3).
- CONNECTION TO THE GROUND ROD AND THE GROUNDING ELECTRODE SHALL BE LISTED AND LABELED FOR USE. NEC 250.8
- CONNECT #6 BARE COPPER WIRE FROM THE GROUND ROD ADJACENT TO THE POLE OR IN JUNCTION BOX TO THE GROUND LUG IN THE POLE.

20 YEAR PHOTOCELL REQUIREMENTS (FAIL-OFF)

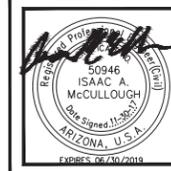
MODEL NO. : DLL 127 F UL 1.5 JU

WATT	LUMEN	DESCRIPTION	APN	MODEL#
40	4,059	AUTOBAHN LED ROADWAY - S SERIES (ATBS); AUTOBAHN S SERIES, E LUMEN PACKAGE, 120-277V, ROADWAY TYPE 2, 2700K CCT, MOV PACK, NEMA LABEL, 7 PIN NEMA PHOTO CONTROL RECEPTACLE		ATBS E MVOLT R2 27K MP NL P7 RFD233637
70	6,634	AUTOBAHN LED ROADWAY - M SERIES (ATBM); AUTOBAHN M SERIES, B LUMEN PACKAGE, 120-277V, ROADWAY TYPE 2, 2700K CCT, MOV PACK, NEMA LABEL, 7 PIN NEMA PHOTO CONTROL RECEPTACLE		ATBM B MVOLT R2 27K MP NL P7 RFD213834
113	14,817	AUTOBAHN LED ROADWAY - M SERIES (ATBM); AUTOBAHN M SERIES, F LUMEN PACKAGE, 120-277V, ROADWAY TYPE 2, 2700K CCT, MOV PACK, NEMA LABEL, 7 PIN NEMA PHOTO CONTROL RECEPTACLE		ATBM F MVOLT R2 27K MP NL P7 RFD234943
164	16,980	AUTOBAHN LED ROADWAY - L SERIES (ATBL); AUTOBAHN L SERIES, A LUMEN PACKAGE, 120-277V, ROADWAY TYPE N2, 2700K CCT, MOV PACK, NEMA LABEL, 7 PIN NEMA PHOTO CONTROL RECEPTACLE		ATBL A MVOLT N2 27K MP NL P7 RFD213835
208	21,877	AUTOBAHN LED ROADWAY - LARGE (ATB2); ATB2, 60B CHIPS 1050mA DRIVER, 120-277V, ROADWAY TYPE 3, 2700K CCT, MOV PACK, NEMA LABEL, 7 PIN NEMA PHOTO CONTROL RECEPTACLE		ATB2 60BLED10 MVOLT R3 27K MP NL P7 RFD233815
274	28,719	AUTOBAHN LED ROADWAY - LARGE (ATB2); ATB2, 80B CHIPS 1050mA DRIVER, 120-277V, ROADWAY TYPE 3, 2700K CCT, MOV PACK, NEMA LABEL, 7 PIN NEMA PHOTO CONTROL RECEPTACLE		ATB2 80BLED10 MVOLT R3 27K MP NL P7 RFD233641

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

STREET LIGHT DETAIL SHEET	
CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT	
107TH AVENUE INDIAN SCHOOL ROAD TO CAMELBACK ROAD	
PROJECT #:	ST87100161
FILE NO.:	
DR: IAM	DES: EDL
DATE: 11/17	DATE: 11/17
CK: MAL	DATE: 11/17
SHEET NO.:	TOTAL SHEETS
41	72
SCALE: NTS	OS. #: -





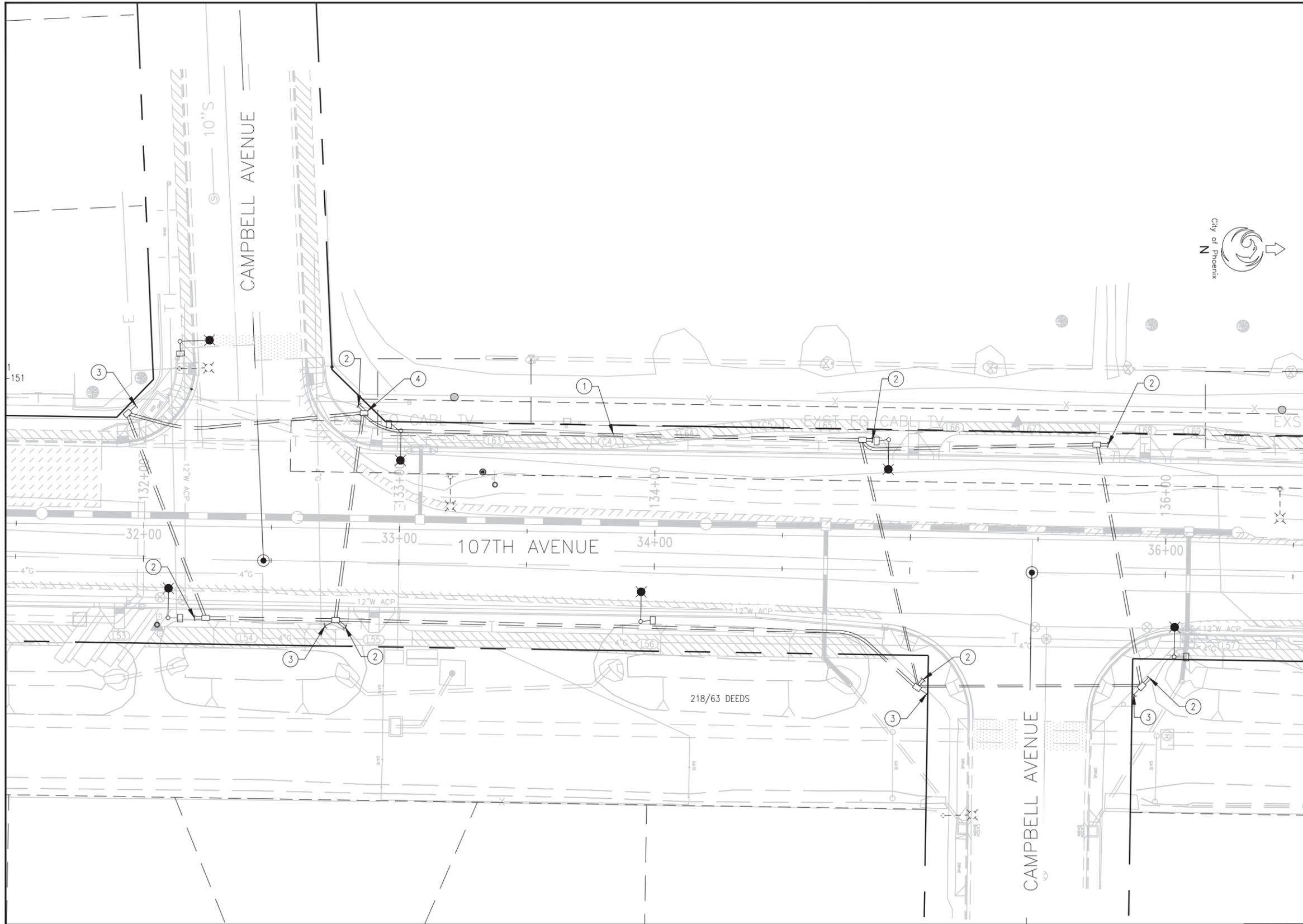
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	42	72

1661 East Camelback Road, Suite 400
Phoenix, Arizona 85016
Phone: (602) 333-2200

DR: IAM DES: EDL CK: MAL DATE: 11/17

KEYNOTES

- ① 2-2 1/2" SCH 40 PVC CONDUITS (TYP.)
- ② 2-2" SCH 40 PVC CONDUIT STUB-OUTS
- ③ 1-2" SCH 40 PVC CONDUIT STUB-OUT
- ④ TRAFFIC SIGNAL JUNCTION BOX (TYP.)



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

CONDUIT & J-BOX PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
107TH AVENUE
INDIAN SCHOOL ROAD TO CAMELBACK ROAD
ST87100161

APPROVED BY:
TRAFFIC SIGNAL ENGINEER

ACTING STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR

PROJECT #:	ST87100161	FILE NO.:	FILE
DR: IAM	DES: EDL	CK: BS	SHEET
DATE: 11/17	DATE: 11/17	DATE: 11/17	TOTAL SHEETS
SCALE: 1" = 20'	OS: OS	42	72

107TH AVENUE
PHOENIX STREET – MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	43	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

CITY OF PHOENIX GENERAL LANDSCAPE NOTES:

- THE CITY OF PHOENIX GENERAL NOTES ARE THE ONLY NOTES APPROVED ON THIS PLAN. ADDITIONAL GENERAL NOTES GENERATED BY THE SEALANT AND PLACED ON THE PLANS ARE NOT APPROVED AS PART OF THIS PLAN AND ARE **NOTED** AS SUCH ON THE PLANS.
- THE DESIGN ON THESE PLANS IS ONLY APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY THE CITY. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE CITY FORM REQUESTING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW OR ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES.
- CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST APPLICABLE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS.
- FINAL BUILDING PERMIT CANNOT BE OBTAINED UNTIL BONDING OR APPROVED ASSURANCES ARE PROVIDED FOR THE LANDSCAPING WITHIN THE RIGHT OF WAY.
- NO PLANT SUBSTITUTIONS, TYPE, SIZE, OR QUANTITY, OR DEVIATIONS FROM THE APPROVED LANDSCAPE OR IRRIGATION PLANS ARE ALLOWED WITHOUT PRIOR APPROVAL FROM THE CITY OF PHOENIX LANDSCAPE SECTION AT 602-262-7811
- ALL PLANT MATERIAL AND SPECIFICATIONS SHALL CONFORM TO THE ARIZONA NURSERYMAN ASSOCIATION STANDARDS.
- ALL RIGHT-OF-WAY AND CITY REQUIRED (PERIMETER, RETENTION AND PARKING) PLANT MATERIAL SHALL BE IN COMPLIANCE WITH THE DEPARTMENT OF WATER RESOURCES LOW WATER USE PLANT LIST.
- CONTACT THE PARKS & RECREATION DEPARTMENT, FORESTRY SUPERVISOR AT 602-262-6862 TO VERIFY OWNERSHIP OF ANY PLANT MATERIAL IN THE PUBLIC R.O.W. PRIOR TO ANY PLANT RELOCATIONS OR REMOVALS. OBTAIN WRITTEN PERMISSION FROM THE PARKS AND RECREATION DEPARTMENT PRIOR TO THE RE-LOCATION OR REMOVAL OF ANY CITY PLANT MATERIAL OR EQUIPMENT.
- CONTACT THE STREET TRANSPORTATION DEPARTMENT, HORTICULTURIST AT 602-262-6284 PRIOR TO THE RELOCATION OR REMOVAL OF EXISTING PLANT MATERIAL IN THE A.D.O.T. R.O.W. THAT IS ON THE CITY'S SIDE OF THE SOUND WALL. OBTAIN WRITTEN PERMISSION FROM THE STREET TRANSPORTATION DEPARTMENT PRIOR TO THE RELOCATION OR REMOVAL OF ANY PLANT MATERIAL OR EQUIPMENT.
- ALL EXISTING TREES AND SHRUBS IN RIGHT-OF-WAY DESIGNATED TO REMAIN BUT ARE DAMAGED OR DESTROYED WILL BE REPLACED IN LIKE SIZE AND KIND BY THE CONTRACTOR.
- THE PROPOSED IRRIGATION SYSTEM SHALL INCLUDE ANY MODIFICATIONS REQUIRED TO TIE THE EXISTING CITY OF PHOENIX IRRIGATION SYSTEM IN RIGHT-OF-WAY TO THE PROPOSED SYSTEM. ALL THROUGH IRRIGATION SYSTEMS IN THE RIGHT-OF-WAY SHALL BE MAINTAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CAPPING AND OR ABANDONING EXISTING IRRIGATION TO PLANT MATERIALS AND PROVIDING NEW IRRIGATION TO THE EXISTING PLANT MATERIAL IN RIGHT-OF-WAY PER THE APPROVED PLAN.
- WALLS ARE NOT APPROVED AS PART OF THE LANDSCAPE PLAN BUT ARE SHOWN FOR REFERENCE ONLY.
- TREES ADJACENT TO PEDESTRIAN WALKWAYS SHOULD HAVE A MINIMUM CANOPY CLEARANCE OF SIX FEET EIGHT INCHES (6'8") PER SECTION 507 TAB A.II.A.3.1.10 OF THE CITY OF PHOENIX ZONING ORDINANCE.
- P.V.C. PIPE LATERALS ARE REQUIRED. A MAXIMUM OF FIVE FEET (5') OF POLY TUBING OFF OF THE P.V.C. PIPE LATERAL IS ALLOWED. NO POLY TUBING LATERALS ARE ALLOWED.
- PLANT QUANTITIES AND CALIPER SIZES PER THE SPECIFIC ZONING REQUIREMENTS FOR THIS SITE PROVIDED IN THE LEGEND ON THE APPROVED PLANS ARE REQUIRED TO BE INSTALLED IN THE FIELD. ANY DEVIATIONS FROM THE PLAN WILL REQUIRE A REVISION TO THE APPROVED PLAN.
NOTE: MINIMUM CALIPER SIZE IS A ZONING REQUIREMENT. IF THE MINIMUM CALIPER CANNOT BE MET AT BOX SIZE THAT IS SPECIFIED, THEN THE BOX SIZE MUST BE INCREASED TO MEET CALIPER REQUIREMENTS.
- PLAN APPROVAL IS VALID FOR 180 DAYS. PRIOR TO PLAN APPROVAL EXPIRATION ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION AND REINSTATEMENT OF LANDSCAPE PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.

CITY OF PHOENIX MAINTENANCE GENERAL NOTES:

- ALL WORK IS TO CONFORM TO MAG. STANDARDS AND GUIDELINES AND INSTALLED AS PER CITY DETAILS.
- NO PLANT SUBSTITUTIONS, TYPE, OR QUANTITY DEVIATIONS FROM THE APPROVED LANDSCAPE OR IRRIGATION PLANS WITHOUT PRIOR APPROVAL FROM THE CITY OF PHOENIX LANDSCAPE SECTION AT (602) 256-4116.
- ALL PLANT MATERIAL AND SPECIFICATIONS TO CONFORM TO THE ARIZONA NURSERYMAN ASSOCIATION STANDARDS.
- OBTAIN LANDSCAPE PERMIT AND PROVIDE A BOND FOR ALL WORK WITHIN THE RIGHT-OF-WAY AT PROJECT ENGINEERING PERMIT COUNTER: 200 WEST WASHINGTON STREET, 2ND FLOOR, STATION #6. NOTIFY ENGINEERING INSPECTOR 48 HOURS PRIOR TO COMMENCING WORK. INSPECTOR WILL CONTACT PARKS, RECREATION AND LIBRARY DEPARTMENT'S REPRESENTATIVE AND THEY WILL BE PRESENT DURING INSPECTIONS.

- CONTRACTOR TO REQUEST A LETTER OF AUTHORIZATION FOR AN UNMETERED POWER SOURCE THROUGH ENGINEERING ARCHITECTURAL SERVICES AT (602) 262-4970. SUBMIT A 812" X 11" PLAN OF CONTROLLER AND POWER SOURCE LOCATIONS.
 - CONTRACTOR TO REQUEST A PRECONSTRUCTION MEETING WITH SRP UNDERGROUND INSPECTOR PRIOR TO INSTALLATION OF J BOX. TELEPHONE NUMBERS (602) 236-0676 (WEST OF CENTRAL AVENUE) OR (602) 236-4748 (EAST OF CENTRAL AVENUE). CONTACT APS TO VERIFY POWER SOURCE LOCATION. INSPECTIONS TELEPHONE NUMBERS: WEST OF 51ST AVENUE (623) 975-5728; 51ST AVENUE TO 16TH STREET (602) 371-6878; EAST OF 16TH STREET (602) 493-4425.
 - CONTACT ENGINEERING OFFSITE INSPECTOR FOR OFFSITE PERMIT. REQUESTING AN ELECTRICAL INSPECTION BY PUBLIC WORKS ELECTRICAL INSPECTOR. INSTALL AS PER CITY DETAIL SHEET. USE ELECTRICAL FITTINGS ONLY. CONTRACTORS MUST ENSURE THE FOLLOWING IS COMPLETED BEFORE REQUESTING AN ELECTRICAL INSPECTION OF THE IRRIGATION CONTROLLER SERVICE.
 - SITE GRADING
 - INSPECTION FOR DEPTH OF TRENCHES
 - MAINLINE PRESSURE TEST WITH NO VALVES OR QUICK COUPLERS (150 LBS. FOR 2 HOURS)
 - PLANT MATERIAL INSPECTION BEFORE INSTALLATION OF TYPE, SIZE OF MATERIAL AND ROOT CONDITIONS. NO MATERIAL THAT IS ROOTBOUND OR HAS CIRCLING ROOTS WILL NOT BE ACCEPTED. UNDERSIZED MATERIAL WILL NOT BE ACCEPTED.
 - APPLICATIONS OR PRE-EMERGENT PRIOR TO INSTALLATION OF D.G.
 - DEPTH OF THE D.G.
 - FINAL APPLICATION OF PRE-EMERGENT AND THE START OF MAINTENANCE.
 - BACKFLOW PREVENTION UNIT TO HAVE A PLUMBING PERMIT AND PRESSURE DIFFERENTIATION TEST APPROVAL BEFORE FINAL INSPECTION.
 - PROVIDE BILLING INFORMATION, ADDRESS AND ACCOUNT NUMBERS OF WATER METER AND POWER SOURCE AT THE TIME OF FINAL ACCEPTANCE BY STREETS DEPARTMENT REPRESENTATIVE.
 - SCHEDULE FINAL INSPECTION ONE (1) WEEK PRIOR TO ACTUAL ON-SITE INSPECTION. ENGINEERING INSPECTOR TO SET-UP AND ATTEND THE FINAL INSPECTION AND FINAL ACCEPTANCE INSPECTIONS WITH STREETS DEPARTMENT REPRESENTATIVE.
 - A ONE YEAR MAINTENANCE PERIOD ON ALL PLANT MATERIAL AND IRRIGATION EQUIPMENT SHALL BE PROVIDED AND ALL PLANT MATERIAL WILL HAVE A ONE-YEAR WARRANTY AFTER DATE OF FINAL ACCEPTANCE.
- ### LANDSCAPE GENERAL NOTES:
- NO PLANT SUBSTITUTIONS, TYPE, OR QUANTITY DEVIATIONS FROM THE APPROVED LANDSCAPE PLANS WILL BE PERMITTED WITHOUT PRIOR APPROVAL FROM THE CITY OF PHOENIX REPRESENTATIVE. CONTRACTOR SHALL PROVIDE INFORMATION AS TO AVAILABILITY OF PLANT MATERIALS AS A SUBMITTAL WITHIN 30 DAYS OF NOTICE TO PROCEED.
 - ALL PLANT MATERIAL SPECIFICATIONS SHALL CONFORM TO THE ARIZONA NURSERY ASSOCIATION STANDARDS.
 - ALL RIGHT-OF-WAY PLANT MATERIAL TO BE IN COMPLIANCE WITH THE ARIZONA DEPARTMENT OF WATER RESOURCES LOW WATER USE PLANT LIST AND CITY OF PHOENIX APPROVED STANDARDS.
 - ALL LANDSCAPE CONSTRUCTION REQUIRED TO COMPLETE THESE PLANS SHALL BE IN ACCORDANCE WITH CITY OF PHOENIX (C.O.P.) SUPPLEMENTS TO THE MAG UNIFORM STANDARD SPECIFICATIONS, UNLESS SPECIFIED OTHERWISE IN THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL REQUIRED STANDARD SPECIFICATIONS, DETAILS AND SUPPLEMENTS PRIOR TO BEGINNING CONSTRUCTION.
 - THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL LAWS, CODES AND REGULATIONS APPLICABLE TO THE ITEMS AND AREAS PERTAINING TO THESE PLANS AND SPECIFICATIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE THE LANDSCAPE CONSTRUCTION WORK COVERED BY THESE PLANS AND SPECIFICATIONS.
 - THE QUANTITIES AND SITE CONDITIONS SHOWN ON THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY THE ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BEGINNING THE WORK COVERED BY THESE PLANS AND SPECIFICATIONS.
 - THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND/OR FACILITIES CAUSED DURING THE LANDSCAPE CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL CALL FOR BLUE STAKE AT (602) 263-1100 TWO WORKING DAYS PRIOR TO ANY EXCAVATION.
 - ANY DISCREPANCIES FOUND BETWEEN THESE PLANS AND SPECIFICATIONS AND THE SITE SHALL BE REPORTED TO THE CITY OF PHOENIX REPRESENTATIVE PRIOR TO STARTING ANY LANDSCAPE WORK.
 - SHOULD THE CONTRACTOR HAVE ANY QUESTIONS REGARDING THESE PLANS AND SPECIFICATIONS, OR SHOULD THERE BE ANY DISCREPANCIES, THE CONTRACTOR SHALL CONTACT THE CITY OF PHOENIX REPRESENTATIVE DIRECTLY FOR CLARIFICATION BEFORE PROCEEDING FURTHER WITH ANY OTHER WORK.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE JOB SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS THAT COULD AFFECT THE INSTALLATION OF ANY WORK SET FORTH IN THESE PLANS AND SPECIFICATIONS PRIOR TO BEGINNING WORK.
 - CONTRACTOR SHALL VERIFY ROCK AND SOIL CONDITIONS WITHIN THE PROJECT SITE PRIOR TO CONSTRUCTION. NO EXTRA PAYMENT OR TIME EXTENSION WILL BE GIVEN DUE TO ROCKY SOIL CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR CONDUCTING SITE INSPECTIONS AND CHECKING SOIL BORING LOGS TO DETERMINE SUBSURFACE CONDITIONS PRIOR TO CONSTRUCTION.
 - CONTRACTOR TO VERIFY LIMITS OF DISTURBANCE THROUGHOUT THE PROJECT.

- BRING DISCREPANCIES IMMEDIATELY TO THE ATTENTION OF THE CITY OF PHOENIX REPRESENTATIVE.
- ALL WORK TO BE CONFINED WITHIN THE EXISTING LIMITS OF DISTURBANCE.
 - THE INFORMATION SHOWN ON THIS SET OF DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT REPRESENTED TO BE ACCURATE OR ALL INCLUSIVE. THE INFORMATION IS MADE AVAILABLE TO PROVIDE THE CONTRACTOR WITH READY ACCESS TO THE SAME INFORMATION USED BY THE CONSULTANT IN PREPARATION OF THESE DOCUMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY TYPE AND LOCATION OF UTILITIES AS NECESSARY TO AVOID DAMAGE THERETO. ALL UTILITIES SHALL BE LOCATED AND VERIFIED PRIOR TO ANY EXCAVATION.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND LEGAL DISPOSAL OF ANY DEBRIS RESULTING FROM THE CONSTRUCTION. AT NO TIME SHALL ANY OF THIS MATERIAL OBSTRUCT THE NORMAL OPERATION OF ANY ADJOINING STREET AREAS ASSOCIATED WITH THIS PROJECT.
 - THE JOB SITE AT THE COMPLETION OF THE CONSTRUCTION SHALL BE CLEANED OF ANY DEBRIS RESULTING FROM CONSTRUCTION. NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, GUTTERS AND PAVEMENT HAVE BEEN SWEEPED CLEAN OF ALL DIRT AND DEBRIS.
 - SUBSTANTIAL INSPECTION - AN INSPECTION AT COMPLETION OF THE LANDSCAPE AND IRRIGATION INSTALLATION WILL BE MADE BY THE CITY OF PHOENIX. ANY DEFICIENCIES IN THE INSTALLATION WILL BE NOTED AND CORRECTED BY THE CONTRACTOR PRIOR TO THE START OF THE LANDSCAPE MAINTENANCE PERIOD.
 - LANDSCAPE MAINTENANCE PERIOD - THE CONTRACTOR SHALL NOTIFY THE CITY OF PHOENIX REPRESENTATIVE WHEN ALL LANDSCAPING IS COMPLETED, INCLUDING ALL SUBSTANTIAL COMPLETION PUNCHLIST ITEMS, AND READY FOR A LANDSCAPE AND IRRIGATION INSPECTION. THE CITY OF PHOENIX SHALL ISSUE A LETTER TO BEGIN THE LANDSCAPE MAINTENANCE PERIOD. THE LANDSCAPE MAINTENANCE PERIOD SHALL BE FOR A MINIMUM OF ONE YEAR. ALL PLANT MATERIAL WILL HAVE A ONE-YEAR WARRANTY PERIOD AFTER DATE OF FINAL ACCEPTANCE.
 - FINAL ACCEPTANCE - A FINAL INSPECTION IS REQUIRED AT THE END OF THE LANDSCAPE MAINTENANCE PERIOD TO DETERMINE FINAL ACCEPTANCE. A LETTER OF FINAL ACCEPTANCE WILL BE ISSUED BY CITY OF PHOENIX REPRESENTATIVE.
 - CITY OF PHOENIX BUILDING SAFETY INSPECTIONS ARE REQUIRED FOR THE BACKFLOW PREVENTER AND RELATED ELECTRICAL CONNECTIONS AND REQUIRE A MINIMUM OF 48 HOURS PRIOR NOTIFICATION TO THE CITY OF PHOENIX.
 - THE CONTRACTOR IS ADVISED THAT DAMAGE TO ANY PORTION OF THIS PROJECT'S CURBS, GUTTERS, PAVEMENTS, FENCING OR SURROUNDING AREAS THAT IS NOT NOTED ON THE PLANS TO BE DISTURBED IS TO BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
 - ALL EQUIPMENT AND MATERIALS NOT SHOWN OR SPECIFIED ON THE PLANS OR SPECIFICATIONS, BUT WHICH ARE REQUIRED TO COMPLETE THIS INSTALLATION, SHALL BE SUPPLIED BY THE CONTRACTOR AS PART OF THIS CONTRACT WORK AND SHALL BE CONSIDERED INCLUDED TO THE WORK INVOLVED.
 - ALL PLANT PITS ARE TO BE INSPECTED BY CITY OF PHOENIX REPRESENTATIVE PRIOR TO PLANTING BY THE CONTRACTOR. THE CONTRACTOR SHALL REQUEST AN INSPECTION 48 HOURS IN ADVANCE.
 - PLANT PIT DEPTH SHALL BE MEASURED ON THE LOW SIDE OF PLANT PIT WHEN ON A SLOPE.
 - ALL PLANTS SHALL BE CENTERED IN PLANT PITS.
 - FINAL PLANT MATERIAL PLACEMENT IN THE FIELD MAY BE REQUIRED TO BE ADJUSTED WHERE TREES OCCUR DIRECTLY UNDER OR OVER EXISTING UTILITIES.
 - THE PLANT PIT SOIL MIXTURE SHALL COMPLY WITH THE MAG STANDARDS SECTION 430 AND SHALL BE PLACED IN SIX INCH (6") LIFTS. EACH LIFT SHALL BE WATER SETTLED WITHOUT PUDDLING.
 - WHERE CALICHE IS ENCOUNTERED IN PLANT PITS, THE WIDTH OF THE PIT SHALL BE INCREASED BY ONE-THIRD (1/3) OVER SPECIFICATIONS. A LIQUID PENETRANT SHALL BE INCORPORATED FOR EACH PIT PER MANUFACTURER'S RECOMMENDATIONS. NO OVER EXCAVATION SHALL OCCUR WITHOUT APPROVAL OF CITY OF PHOENIX. IF CALICHE IS DISCOVERED TO BE PREVALENT IN THE AREA, CONTRACTOR SHALL IMMEDIATELY NOTIFY CITY OF PHOENIX REPRESENTATIVE TO DETERMINE ACTION AND ASSOCIATED COST. CONTRACTOR SHALL NOT PROCEED WITH ADDITIONAL WORK UNTIL DIRECTED BY CITY OF PHOENIX REPRESENTATIVE.
 - PLANT LOCATIONS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL STAKE TREE AND SHRUB LOCATIONS FOR 5 GALLON PLANTS AND LARGER. THE LOCATIONS ARE TO BE APPROVED BY CITY OF PHOENIX REPRESENTATIVE PRIOR TO INSTALLATION. THE STAKES SHALL BE CODED PER THE SPECIFICATIONS TO IDENTIFY TREE AND SHRUB.
 - THE CONTRACTOR SHALL PROVIDE GRANITE SAMPLES TO CITY OF PHOENIX REPRESENTATIVE PRIOR TO INSTALLATION. A 1-TON SAMPLE SHALL BE DELIVERED TO PROJECT SITE AT LOCATION APPROVED BY CITY OF PHOENIX REPRESENTATIVE AND SPREAD TO THICKNESS AS CALLED FOR IN THE DETAILS AND WASHED FOR REVIEW AND APPROVAL.
 - PLANT MATERIAL SHALL NOT BE INSTALLED OR ALLOWED TO GROW WITHIN 3' OF A FIRE HYDRANT OR FIRE DEPARTMENT CONNECTION (FDC). MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 15 FEET WHERE TREES OVERHANG CURB LINE.

PLANT LEGEND

TREES:	BOTANICAL NAME	COMMON NAME	QTYS:	SIZE:	CALIPER:
	Acacia anuera	Mulga	105	24" Box	0.75"-1.25"
	Acacia salicina	Weeping Acacia	41	24" Box	1.25" - 1.5"
	Eucalyptus papuana	Ghost Gum	39	24" Box	1.25" - 1.5"
	Parkinsonia florida	Blue Palo Verde	60	24" Box	1.0" - 1.5"
	Tipuana tipu	Tipu Tree	45	24" Box	1.0" - 1.5"
SHRUBS & GROUNDCOVERS					
	Bougainvillea sp.	Bougainvillea	142	5 Gal.	
	Cordia parvifolia	Little Leaf Cordia	124	5 Gal.	
	Eremophila glabra	Outback Sunrise Emu	190	5 Gal.	
		'Mingenew Gold'			
	Larrea tridentata	Creosote	89	5 Gal.	
ACCENTS:					
	Asclepias subulata	Desert Milkweed	464	1 Gal.	
	Dasyliroon acrotiche	Green Desert Spoon	202	5 Gal.	
	Euphorbia antisiphilitica	Candelilla	94	1 Gal.	
	Opuntia caccanapa	Spineless Prickly Pear	120	1 Gal.	
		'Ellisiana'			
	Yucca pallida	Pale Leaf Yucca	143	1 Gal.	

SURFACE MATERIALS LEGEND

	Decomposed Granite @ Landscape Planters See Dtl. 5, Sht. 55	1/2" Screened Color: Tanner Gold	186,537 S.F.
	Roller Compacted Decomposed Granite @ RID O&M Road See Dtl. 6, Sht. 55	1/4" Minus Color: Tanner Gold	55,825 S.F.
	Small	2'X2' Surface Select	29
	Medium	3'X3' Surface Select	67

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE GENERAL NOTES

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: EM	DES: AH	CK: JE	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	43	72

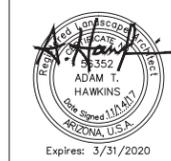


SCALE: 1" = 20' NTS

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

ST87100161, 11/14/17

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK

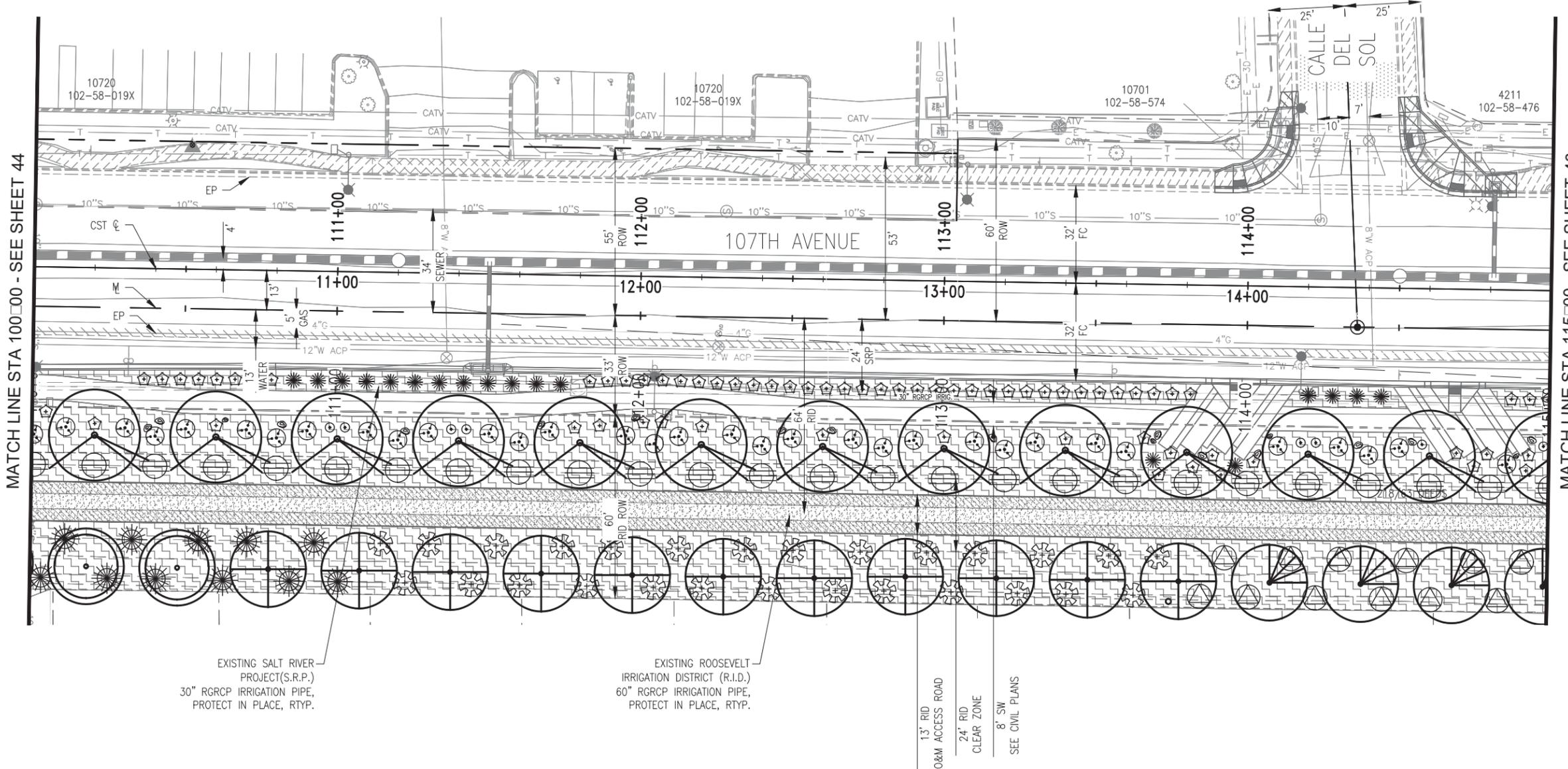


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	45	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



PLANT LEGEND

TREES:	BOTANICAL NAME	COMMON NAME
	A.....	M.....
	A.....	W.....
	E.....	G.....
	P.....	B.....
	T.....	T.....

SHRUBS & GROUNDCOVERS

	B.....	B.....
	C.....	L.....
	E.....	O.....
	L.....	Cr.....

ACCENTS:

	A.....	D.....
	D.....	Gr.....
	E.....	C.....
	O.....	S.....
	Y.....	P.....

SURFACE MATERIALS LEGEND

	D.....	12" S.....
	S.....	C.....
	R.....	14" M.....
	D.....	C.....
	RID O&M R.....	2'X2' S.....
	S.....	3'X3' S.....

EXISTING SALT RIVER PROJECT(S.R.P.)
30" RGRCP IRRIGATION PIPE,
PROTECT IN PLACE, RTYP.

EXISTING ROOSEVELT IRRIGATION DISTRICT (R.I.D.)
60" RGRCP IRRIGATION PIPE,
PROTECT IN PLACE, RTYP.

13' RID ACCESS ROAD
24' RID CLEAR ZONE
8' SW SEE CIVIL 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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN
CITY OF PHOENIX ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

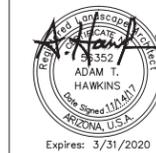


DR: EM	DES: AH	CK: JE	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	45	72

SCALE: 1" = 20' NTS

ST87100161, 11/14/17

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



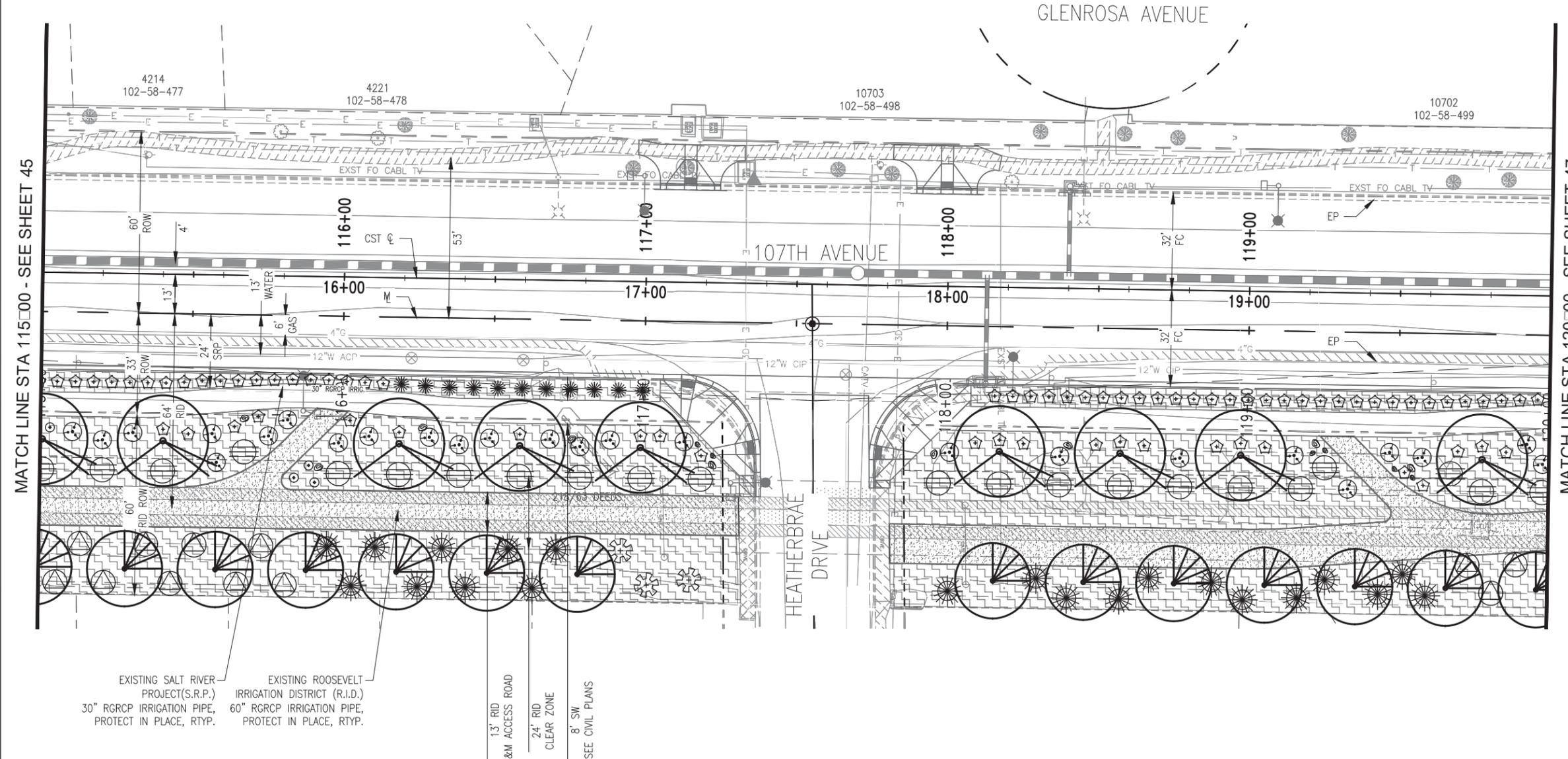
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	46	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

PLANT LEGEND

TREES:	BOTANICAL NAME	COMMON NAME
	A	M
	A	W
	E	G
	P	B
	T	T
SHRUBS & GROUNDCOVERS		
	B	B
	C	L
	E	O
	L	Cr
ACCENTS:		
	A	D
	D	Gr
	E	C
	O	S
	Y	P

SURFACE MATERIALS LEGEND

	D	12" S
	S	C
	R	14" M
	D	C
	S	2'X2' S
	S	3'X3' S



MATCH LINE STA 115+00 - SEE SHEET 45

MATCH LINE STA 120+00 - SEE SHEET 47

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

EXISTING SALT RIVER PROJECT (S.R.P.)
30" RGRCP IRRIGATION PIPE, PROTECT IN PLACE, RTYP.

EXISTING ROOSEVELT IRRIGATION DISTRICT (R.I.D.)
60" RGRCP IRRIGATION PIPE, PROTECT IN PLACE, RTYP.

13' RID O&M ACCESS ROAD

24' RID CLEAR ZONE

8' SW SEE CIVIL 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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX ARIZONA
STREET TRANSPORTATION DEPARTMENT

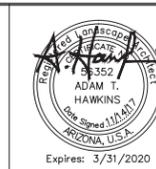
107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161



DR: EM	DES: AH	CK: JE	SHEET NO:	TOTAL SHEETS:
DATE: 11/17	DATE: 11/17	DATE: 11/17	46	72
SCALE: 1" = 20' NTS				

ST87100161, 11/14/17

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



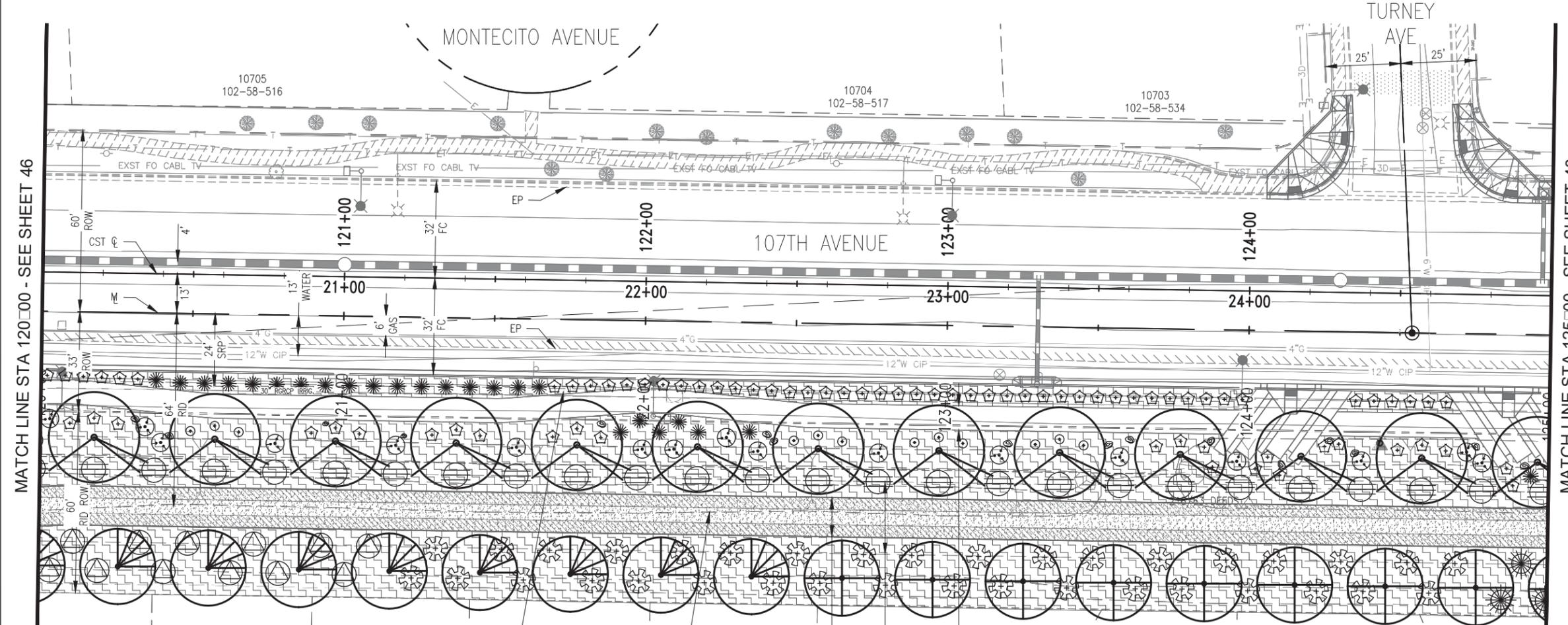
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	47	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

PLANT LEGEND

TREES:	BOTANICAL NAME	COMMON NAME
	A.....	M.....
	A.....	W.....
	E.....	G.....
	P.....	B.....
	T.....	T.....
SHRUBS & GROUNDCOVERS		
	B.....	B.....
	C.....	L.....
	E.....	O.....
	L.....	C.....
ACCENTS:		
	A.....	D.....
	D.....	G.....
	E.....	C.....
	O.....	S.....
	Y.....	P.....

SURFACE MATERIALS LEGEND

	D.....	12" S.....
	S.....	C.....
	R.....	14" M.....
	D.....	C.....
	S.....	2'X2' S.....
	S.....	3'X3' S.....



MATCH LINE STA 120+00 - SEE SHEET 46

MATCH LINE STA 125+00 - SEE SHEET 48

EXISTING SALT RIVER PROJECT(S.R.P.)
30" RGRCP IRRIGATION PIPE,
PROTECT IN PLACE, RTYP.

EXISTING ROOSEVELT IRRIGATION DISTRICT (R.I.D.)
60" RGRCP IRRIGATION PIPE,
PROTECT IN PLACE, RTYP.

13' RID O&M ACCESS ROAD

24' RID CLEAR ZONE

8' SW SEE CIVIL PLANS

NO.	DESCRIPTION	REVISION BY	CITY OF PHOENIX	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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX ARIZONA
STREET TRANSPORTATION DEPARTMENT

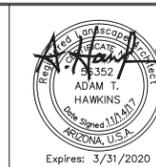
107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161



DR: EM	DES: AH	CK: JE	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	47	72
SCALE: 1" = 20' NTS				

ST87100161, 11/14/17

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	48	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

PLANT LEGEND

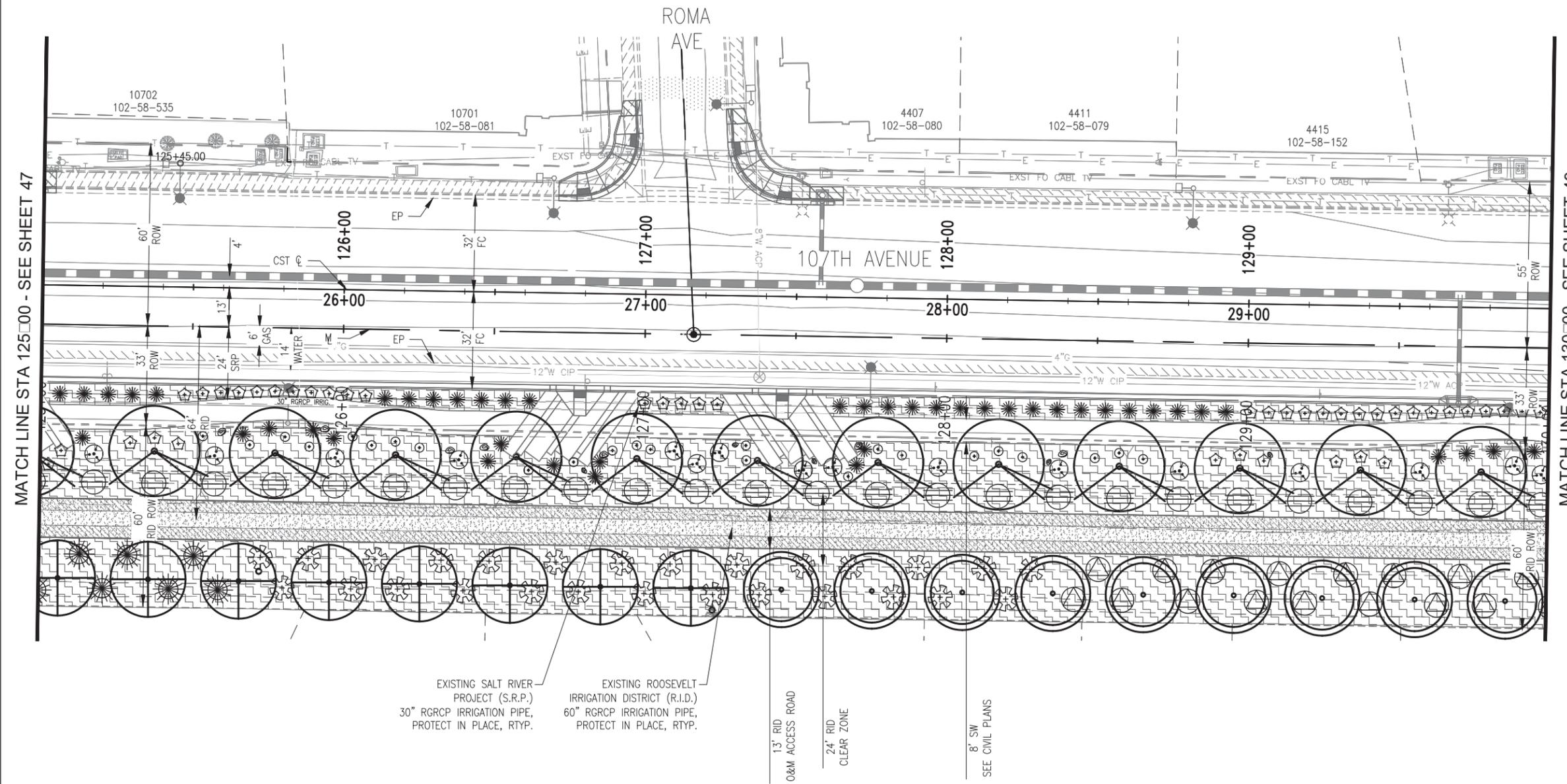
TREES:	BOTANICAL NAME	COMMON NAME
	A	M
	A	W
	E	G
	P	B
	T	T

SHRUBS & GROUNDCOVERS	BOTANICAL NAME	COMMON NAME
	B	B
	C	L
	E	O
	L	Cr

ACCENTS:	BOTANICAL NAME	COMMON NAME
	A	D
	D	Gr
	E	C
	O	S
	Y	P

SURFACE MATERIALS LEGEND

	D	12" S
	L	C
	R	14" M
	D	C
	S	2'X2' S
	M	3'X3' S



EXISTING SALT RIVER PROJECT (S.R.P.)
30" RGRCP IRRIGATION PIPE,
PROTECT IN PLACE, RTYP.

EXISTING ROOSEVELT IRRIGATION DISTRICT (R.I.D.)
60" RGRCP IRRIGATION PIPE,
PROTECT IN PLACE, RTYP.

13' RID ACCESS ROAD

24' RID CLEAR ZONE

8' SW SEE CIVIL PLANS

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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX ARIZONA
STREET TRANSPORTATION DEPARTMENT

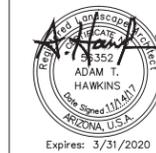
107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161



DR: EM	DES: AH	CK: JE	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	48	72
SCALE: 1" = 20' NTS				

ST87100161, 11/14/17

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK

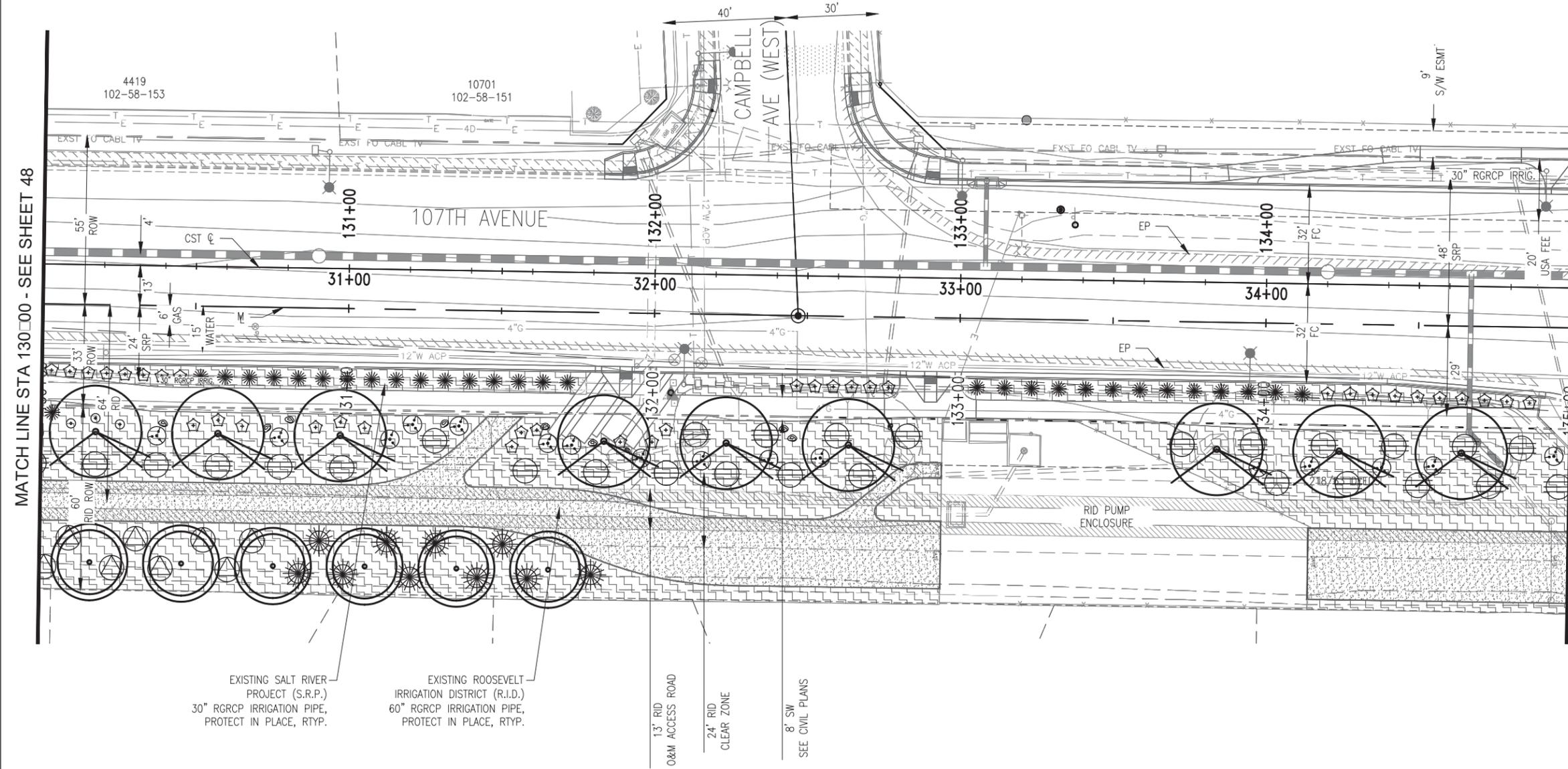


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	49	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



MATCH LINE STA 130+00 - SEE SHEET 48

MATCH LINE STA 135+00 - SEE SHEET 50

EXISTING SALT RIVER PROJECT (S.R.P.)
30" RGRCP IRRIGATION PIPE,
PROTECT IN PLACE, RTYP.

EXISTING ROOSEVELT IRRIGATION DISTRICT (R.I.D.)
60" RGRCP IRRIGATION PIPE,
PROTECT IN PLACE, RTYP.

13' RID O&M ACCESS ROAD

24' RID CLEAR ZONE

8' SW SEE CIVIL PLANS

PLANT LEGEND

TREES:	BOTANICAL NAME	COMMON NAME
	A.....	M.....
	A.....	W.....
	E.....	G.....
	P.....	B.....
	T.....	T.....

SHRUBS & GROUNDCOVERS

	B.....	B.....
	C.....	L.....
	E.....	O.....
	L.....	C.....

ACCENTS:

	A.....	D.....
	D.....	G.....
	E.....	C.....
	O.....	S.....
	Y.....	P.....

SURFACE MATERIALS LEGEND

	D.....	12" S.....
	L.....	C.....
	R.....	14" M.....
	D.....	C.....
	S.....	2'X2' S.....
	M.....	3'X3' S.....

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN
CITY OF PHOENIX ARIZONA
STREET TRANSPORTATION DEPARTMENT

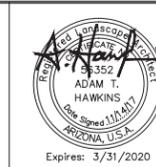
107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: EM	DES: AH	CK: JE	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	49	72



ST87100161, 11/14/17

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



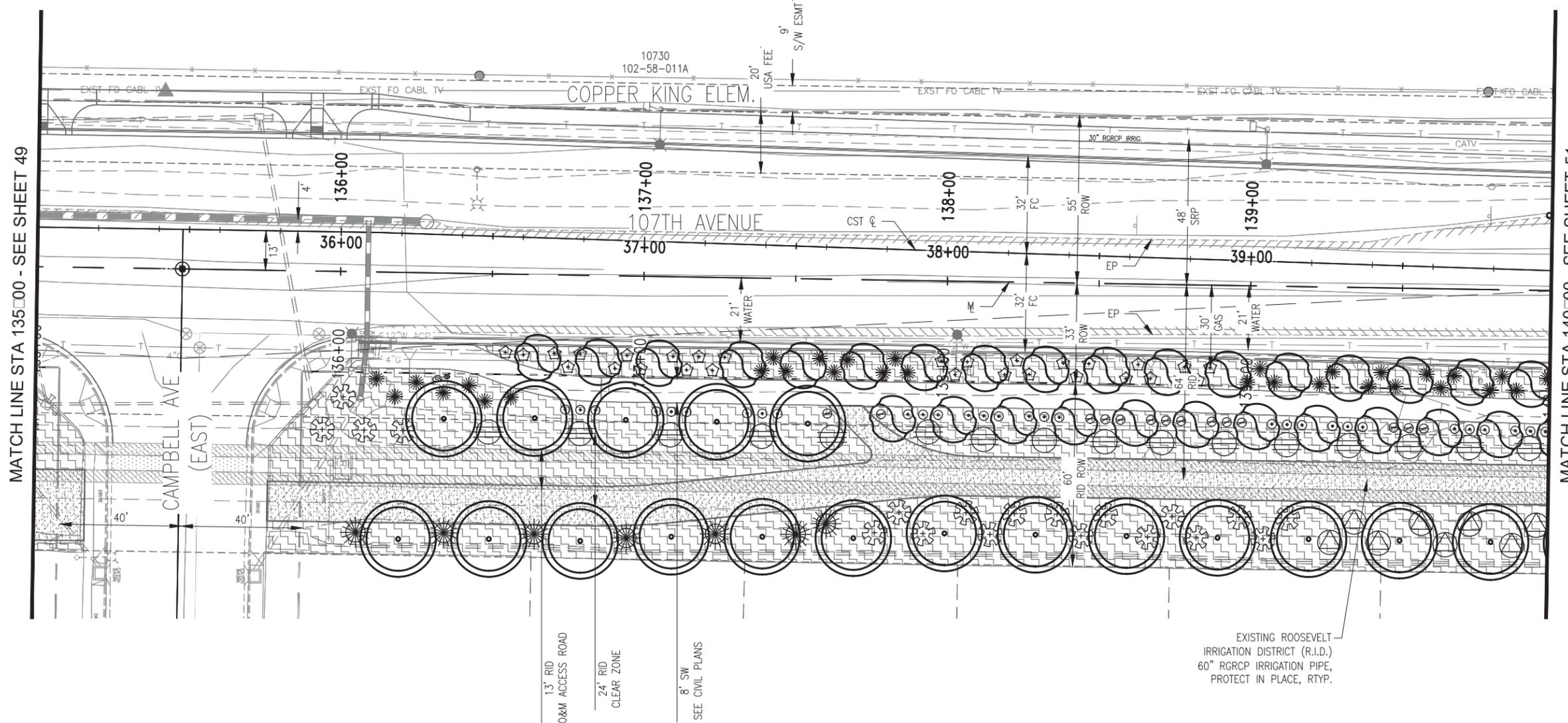
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	50	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

PLANT LEGEND

TREES:	BOTANICAL NAME	COMMON NAME
	A.....	M.....
	A.....	W.....A.....
	E.....	G.....G.....
	P.....	B.....P.....V.....
	T.....	T.....Tr.....
SHRUBS & GROUNDCOVERS		
	B.....	B.....
	C.....	L.....L.....C.....
	E.....	O.....S.....E.....
	L.....	Cr.....
ACCENTS:		
	A.....	D.....M.....
	D.....	Gr.....D.....S.....
	E.....	C.....
	O.....	S.....Pr.....P.....
	Y.....	P.....L.....Y.....

SURFACE MATERIALS LEGEND

	D.....	12" S.....
	L.....	C.....T.....G.....
	S.....	C.....T.....G.....
	R.....	14" M.....
	D.....	C.....T.....G.....
	RID O&M R.....	
	S.....	2'X2' S.....S.....
	M.....	3'X3' S.....S.....
	S.....	
	S.....	



MATCH LINE STA 135+00 - SEE SHEET 49

MATCH LINE STA 140+00 - SEE SHEET 51

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

13' RID
O&M ACCESS ROAD

24' RID
CLEAR ZONE

8' SW
SEE CIVIL PLANS

EXISTING ROOSEVELT
IRRIGATION DISTRICT (R.I.D.)
60" RGRCP IRRIGATION PIPE,
PROTECT IN PLACE, RTYP.

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

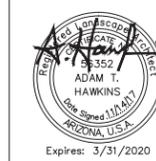
CITY OF PHOENIX ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161



DR: EM	DES: AH	CK: JE	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	50	72
SCALE: 1" = 20' NTS				

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	51	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

PLANT LEGEND

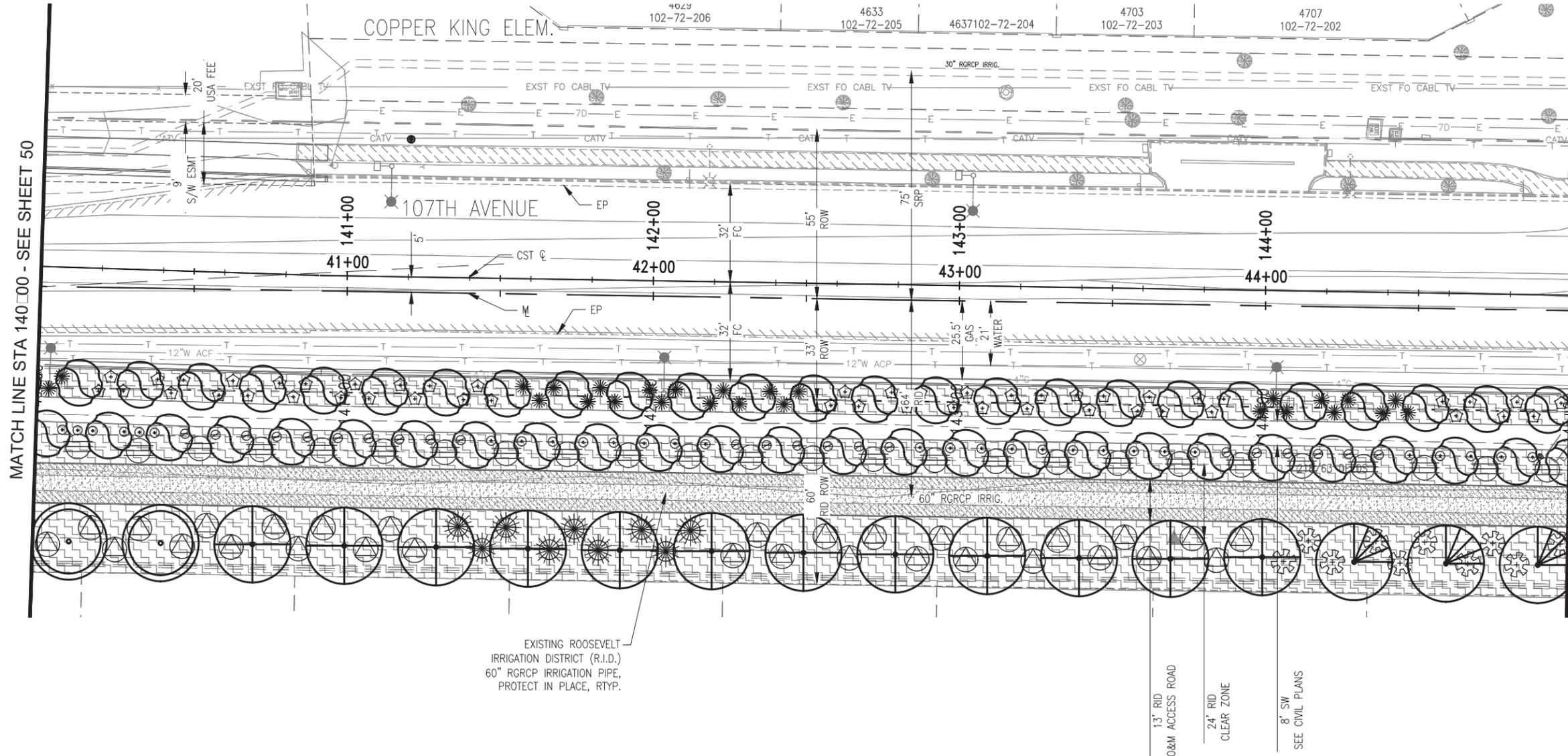
TREES:	BOTANICAL NAME	COMMON NAME
	A.....	M.....
	A.....	W.....
	E.....	G.....
	P.....	B.....
	T.....	T.....

SHRUBS & GROUNDCOVERS	BOTANICAL NAME	COMMON NAME
	B.....	B.....
	C.....	L.....
	E.....	O.....
	L.....	Cr.....

ACCENTS:	BOTANICAL NAME	COMMON NAME
	A.....	D.....
	D.....	Gr.....
	E.....	C.....
	O.....	S.....
	Y.....	P.....

SURFACE MATERIALS LEGEND

	D.....	12" S.....
	L.....	C.....
	R.....	14" M.....
	D.....	C.....
	S.....	2'X2' S.....
	M.....	3'X3' S.....



EXISTING ROOSEVELT IRRIGATION DISTRICT (R.I.D.)
60" RGRCP IRRIGATION PIPE,
PROTECT IN PLACE, RTYP.

13" RID
O&M ACCESS ROAD
24" RID
CLEAR ZONE
8" SW
SEE CIVIL PLANS

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

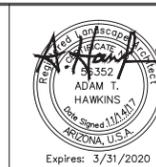
CITY OF PHOENIX ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161



DR: EM	DES: AH	CK: JE	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	51	72
SCALE: 1" = 20' NTS				

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



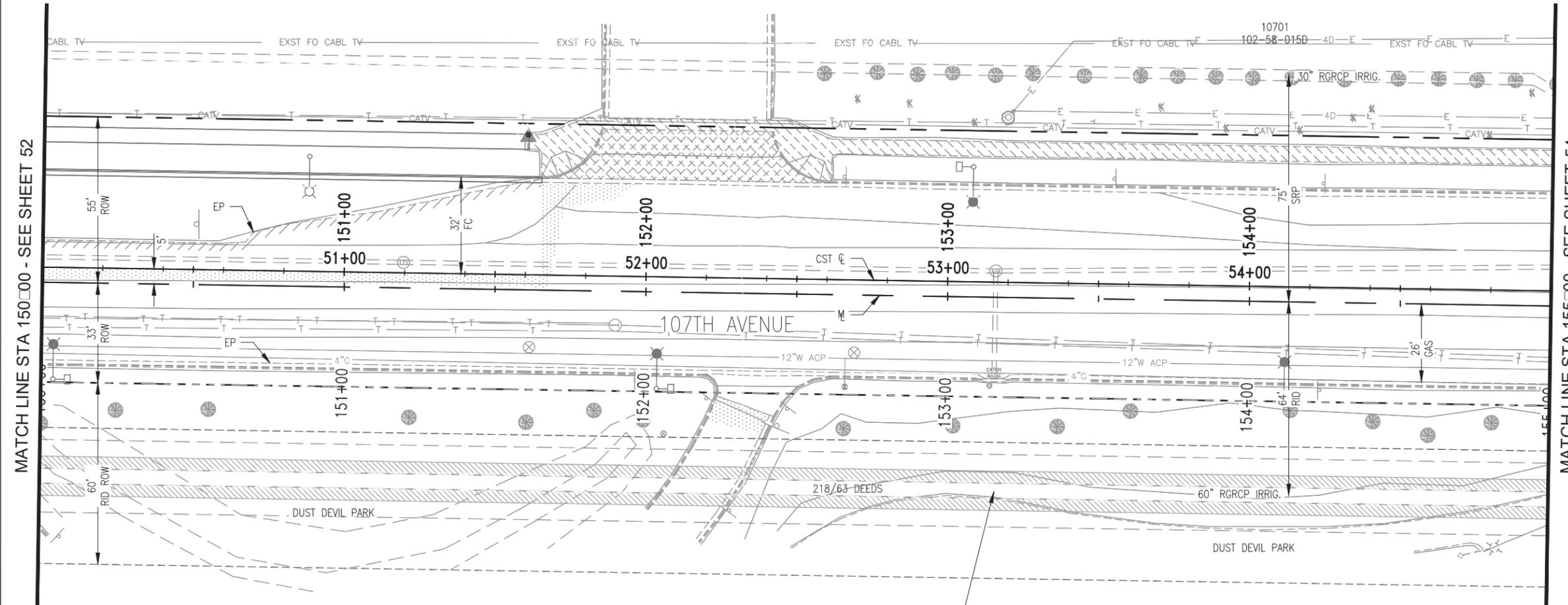
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	53	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

PLANT LEGEND

TREES:	BOTANICAL NAME	COMMON NAME
	A	M
	A	W
	E	G
	P	B
	T	T
SHRUBS & GROUNDCOVERS		
	B	B
	C	L
	E	O
	L	Cr
ACCENTS:		
	A	D
	D	Gr
	E	C
	O	S
	Y	P

SURFACE MATERIALS LEGEND

	D	12"
	S	C
	R	14"
	D	C
	RID	2'X2'
	S	3'X3'



EXISTING ROOSEVELT-IRRIGATION DISTRICT (R.I.D.)
60" RGRCP IRRIGATION PIPE,
PROTECT IN PLACE, RTYP.

NO LANDSCAPE IMPROVEMENTS
THIS SHEET

REVISION BY CITY OF PHOENIX	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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN
CITY OF PHOENIX ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

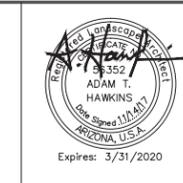


DR: EM	DES: AH	CK: JE	SHEET NO:	TOTAL SHEETS:
DATE: 11/17	DATE: 11/17	DATE: 11/17	53	72

SCALE: 1" = 20' NTS

ST87100161, 11/14/17

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



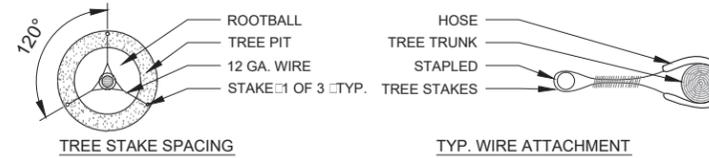
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	55	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

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

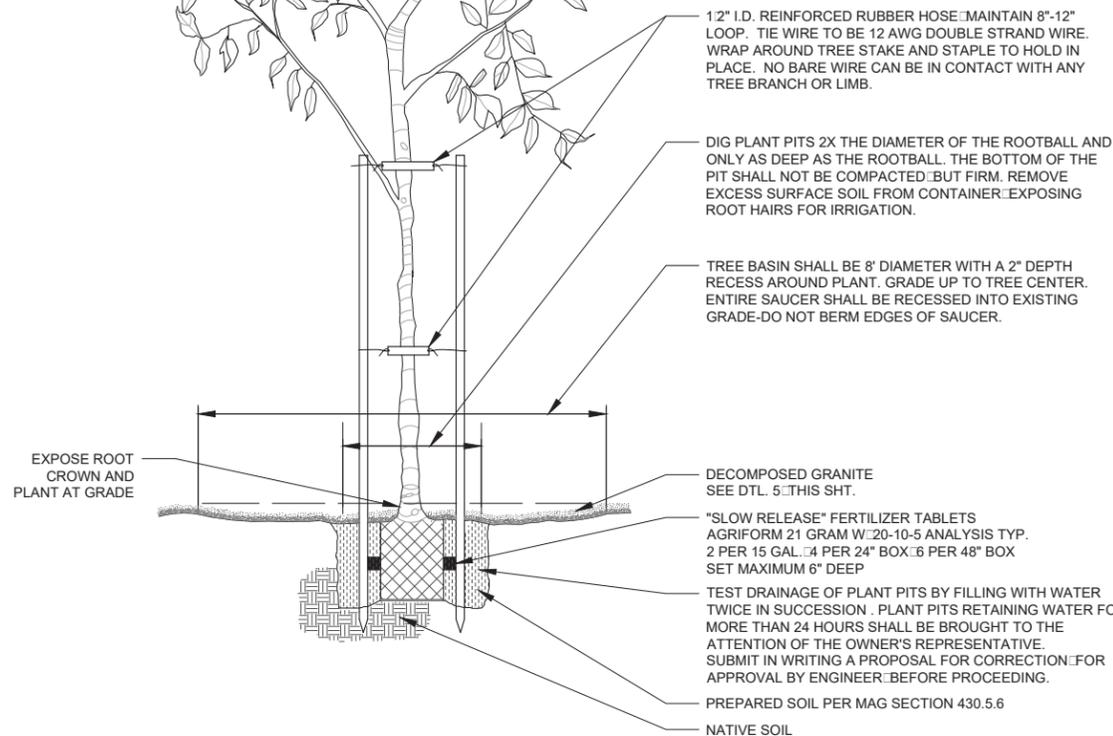
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				

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

TREE STAKING NOTES:
1. (2) 2" DIAMETER TREE STAKES DRIVEN INTO UNDISTURBED SOIL.
2. PLACE TREE STAKES FOR MAXIMUM SUPPORT DO NOT PENETRATE ROOTBALL.
3. PLACE TREE TIE SUPPORTS WITH TOP TIE ABOVE SCAFFOLD BRANCHES AND SECOND TIE MIDWAY TO GROUND. AVOID RIGID RESTRAINT OF TREE ALLOW FOR SOME TRUNK MOVEMENT.

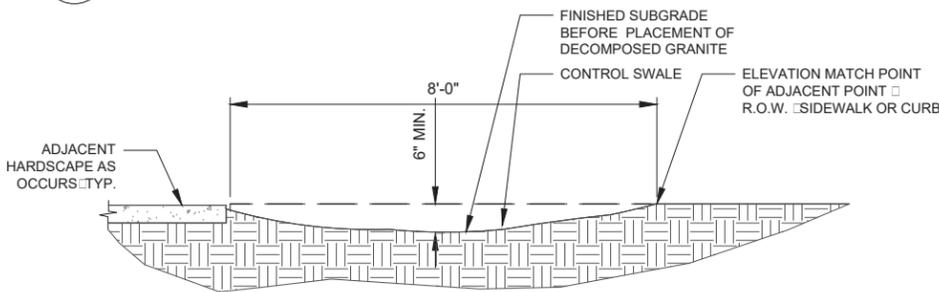


NOTES:
1. TIE WIRES 2 STRAND TWISTED 12 GA. WIRE RUN THRU 1" DIA. MULTI-PLY RUBBER HOSE END OF WIRE STAPLED TO STAKE. PLACE TOP TIE FOR MAXIMUM SUPPORT ABOVE LOWEST SCAFFOLD BRANCHES. BOTTOM TIE PLACED HALFWAY BETWEEN TOP TIE AND GRADE OR AS DIRECTED BY CONTRACTING OFFICER.
2. LODGE POLE TREE STAKES TO BE 2" DIA. BY LENGTH VARIES DRIVEN MINIMUM OF 12" INTO UNDISTURBED SOIL AT OUTER FACE OF PLANTING PIT. LODGE POLE TO BE CUT OFF AT 6" ABOVE TOP WIRE. DO NOT PENETRATE ROOTBALL.
3. USE 2 TREE STAKES FOR SINGLE TRUNK TREE PLANTING AND 3 TREE STAKES FOR MULTI-TRUNK TREE PLANTING.
4. PLACE TREE TIE SUPPORTS WITH TOP TIE ABOVE SCAFFOLD BRANCHES AND SECOND TIE MIDWAY TO GROUND. AVOID RIGID RESTRAINT OF TREE ALLOW FOR SOME TRUNK MOVEMENT.
5. 1 1/2" I.D. REINFORCED RUBBER HOSE MAINTAIN 8"-12" LOOP. TIE WIRE TO BE 12 AWG DOUBLE STRAND WIRE. WRAP AROUND TREE STAKE AND STAPLE TO HOLD IN PLACE. NO BARE WIRE CAN BE IN CONTACT WITH ANY TREE BRANCH OR LIMB.

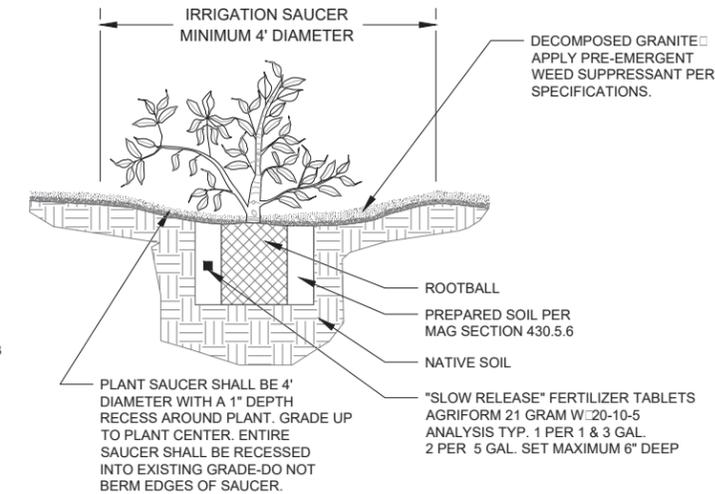


2 TREE STAKING

NTS



NOTE: IRRIGATION SWALE MUST BE APPROVED BY CITY OF PHOENIX REPRESENTATIVE PRIOR TO PLACEMENT OF PLANTS TURF OR DECOMPOSED GRANITE.



SHRUB PLANTING NOTES:
1. SCARIFY GLAZED PERIMETER OF PLANT PIT.
2. TEST PLANT PITS FOR DRAINAGE.
3. CONSTRUCT AN EXAMPLE OF IRRIGATION SAUCER FOR REVIEW AND APPROVAL BY CITY OF PHOENIX REPRESENTATIVE PRIOR TO PLACING DECOMPOSED GRANITE.

1 TREE PLANTING

NTS

GRADATION REQUIREMENTS - 1 1/2" SCREENED

PASSING SIEVE	RETAINING	RETAINING
3/4"	2	98
1/2"	43	57
3/8"	82	18
1/4"	98	2
4"	98	2
8"	98	2

3 IRRIGATION WATER CONTROL SWALE

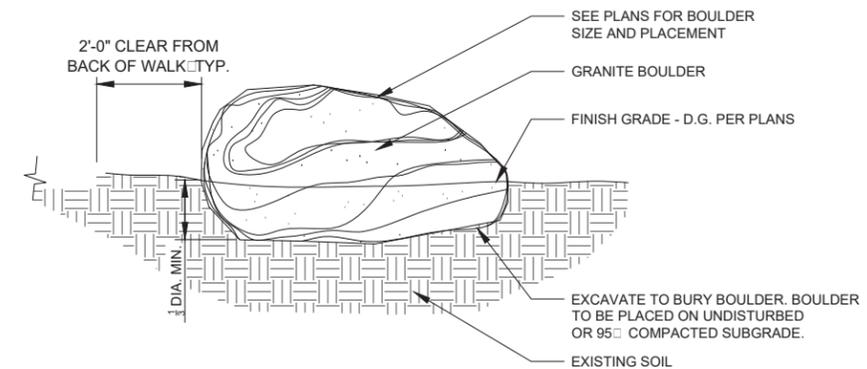
NTS

GRADATION REQUIREMENTS - 1 1/4" MINUS

PASSING SIEVE	RETAINING	RETAINING
1/4"	1	99
1/4"	12	88
3/8"	33	67
1/2"	38	62
3/4"	50	50
1"	61	39
1 1/4"	65	35
1 1/2"	69	31
2"	76	24
3"	80	20

4 SHRUB PLANTING

NTS



NOTES:
1. BOULDER LOCATIONS SHALL BE STAKED BY CONTRACTOR AND APPROVED BY CITY OF PHOENIX REPRESENTATIVE PRIOR TO INSTALLATION.
2. ALL NEW BOULDERS SHALL BE APPROVED BY CITY OF PHOENIX REPRESENTATIVE PRIOR TO DELIVERY OF ANY BOULDERS TO THE JOB SITE. BOULDERS SHALL BE FROM THE SAME SOURCE AND MATCH IN COLOR AND TYPE.
3. SURFACE SELECT BOULDERS MUST BE REVIEWED AND APPROVED BY THE CITY OF PHOENIX REPRESENTATIVE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY WEIGHT, SOURCE AND TYPE OF BOULDER WITH CITY PRIOR TO ORDERING AND INSTALLING BOULDERS.
4. BOULDERS SHALL BE PLACED BY STRAPS OR CABLES WITH CARPET TO PREVENT SCARRING. CONTRACTOR SHALL APPLY SURFACE BLEMISH STAINING OR TREATMENT TO SCARRING AS DIRECTED BY THE CITY OF PHOENIX REPRESENTATIVE.
5. BOULDERS WITH EXCESSIVE SCARRING WILL BE REJECTED.
6. BURY LOWER 1/3 OF BOULDERS AS NEEDED TO ACHIEVE A NATURAL APPEARANCE.

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE DETAILS

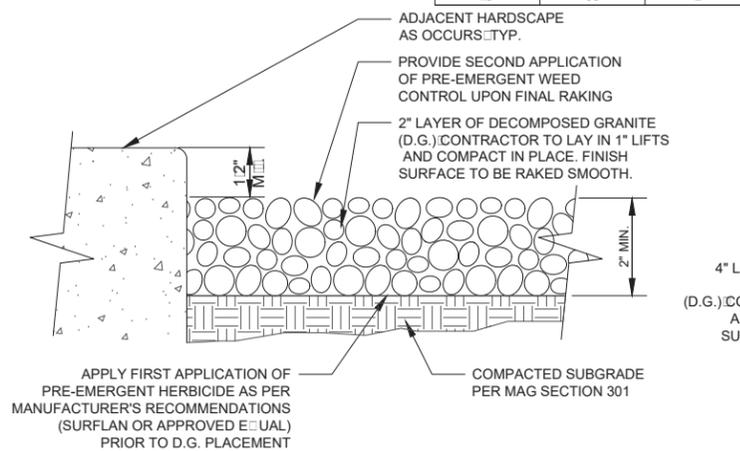
CITY OF PHOENIX ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

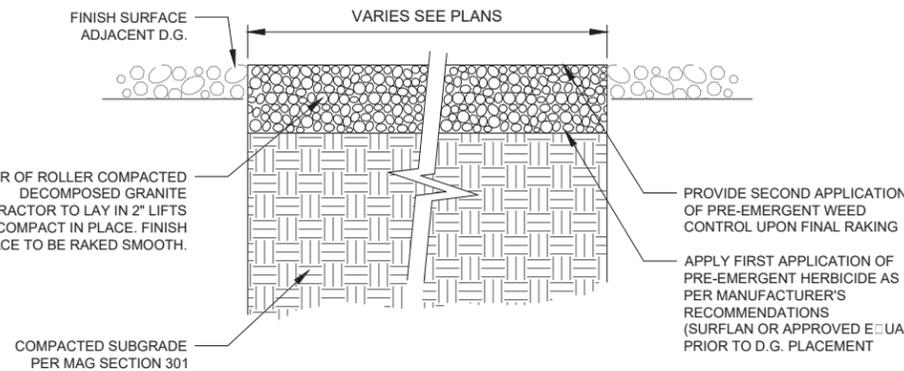
DR: EM	DES: AH	CK: JE	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	55	72
SCALE: 1" = 20' NTS				

5 DECOMPOSED GRANITE

NTS



NOTES:
1. CONTRACTOR TO PROVIDE ONE (1) TON OF PROPOSED D.G. SAMPLE TO CITY OF PHOENIX REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO ORDERING AND INSTALLATION.
2. THIRD APPLICATION OF PRE-EMERGENT SHALL BE APPLIED 30 DAYS BEFORE FINAL ACCEPTANCE OF PROJECT OR AS DIRECTED BY CITY OF PHOENIX REPRESENTATIVE.



NOTES:
1. CONTRACTOR TO PROVIDE ONE (1) TON OF PROPOSED D.G. SAMPLE TO CITY OF PHOENIX REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO ORDERING AND INSTALLATION.
2. THIRD APPLICATION OF PRE-EMERGENT SHALL BE APPLIED 30 DAYS BEFORE FINAL ACCEPTANCE OF PROJECT OR AS DIRECTED BY CITY OF PHOENIX REPRESENTATIVE.

6 ROLLER COMPACTED D.G. R.I.D. MAINTENANCE ROAD

NTS

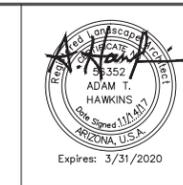
7 BOULDER PLACEMENT

NTS



ST87100161, 11/14/17

107TH AVENUE
PHOENIX STREET – MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	56	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

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

IRRIGATION GENERAL NOTES:

- THE QUANTITIES AND CONDITIONS SHOWN ON THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY THE ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK.
- PRIOR TO ANY WORK THE CONTRACTOR SHALL PERFORM A SURVEY TO ESTABLISH THE OWNER RIGHT OF WAY AND WORK LIMITS.
- PRIOR TO COMMENCEMENT OF ANY WORK THE CONTRACTOR SHALL CONTACT BLUE STAKE (811 OR 602-263-1100) TO VERIFY LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THIS WORK AND SHALL BE RESPONSIBLE FOR DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF THE WORK.
- READ THOROUGHLY AND BECOME FAMILIAR WITH THE INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE THE WORK COVERED BY THESE PLANS.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL STATE AND FEDERAL LAWS CODES AND REGULATIONS APPLICABLE TO THE WORK COVERED BY THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS METHODS COORDINATION AND SEQUENCING DURING CONSTRUCTION UNLESS SPECIFICALLY ADDRESSED OTHERWISE IN THESE PLANS AND SPECIFICATIONS.
- ONCE CONSTRUCTION OPERATIONS HAVE COMMENCED IT IS THE INTENTION OF THIS PROJECT THAT THE JOB SITE BE FULLY MANNED STAFFED UNTIL THE COMPLETION OF THE WORK WITHOUT GAPS IN PROGRESS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPENSATING THE OWNER FOR ANY DESIGN CHANGES MADE AS RESULT OF DEVIATION BY THE CONTRACTOR FROM THESE PLANS AND SPECIFICATIONS OR DUE TO ERRORS FAULTY MATERIAL OR FAULTY WORKMANSHIP.
- ALL MATERIALS UTILIZED ON THIS PROJECT ARE INTENDED TO BE NEW AND OF THE BEST GRADE AVAILABLE. NO USED SALVAGED RECLAIMED OR SECONDS WILL BE ACCEPTED.
- THE CONTRACTOR SHALL VERIFY AND ACCEPT ALL SITE CONDITIONS AND ROUGH GRADES PRIOR TO STARTING ANY WORK. ALL DRAINAGE FLOWS SHALL BE PROTECTED AND MAINTAINED THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL DURING CONSTRUCTION AND SHALL OBTAIN A DUST CONTROL PERMIT FROM MARICOPA COUNTY. ALL COST ASSOCIATED WITH DUST CONTROL AND PERMITS IS CONSIDERED INCIDENTAL TO THE PROJECT.
- THE CONTRACTOR SHALL BE LIABLE FOR PAYMENT OF STATE COUNTY AND CITY SALES TAXES.
- THE CONTRACTOR AGREES TO INDEMNIFY AND SAVE HARMLESS THE OWNER ITS OFFICERS AGENTS AND EMPLOYEES AND ANY JURISDICTION OR AGENCY ISSUING PERMITS FOR ANY WORK INCLUDED IN THE PROJECT FROM ALL SUITS INCLUDING ATTORNEY'S FEES AND COST OF LITIGATION ACTIONS LOSS DAMAGE EXPENSE COST OR CLAIMS OF ANY CHARACTER OR NATURE ARISING OUT OF THE WORK DONE IN FULFILLMENT OF THE TERMS OF THESE PLANS OR SPECIFICATIONS OR FROM ANY CLAIM OR ACT UNDER THE WORKMAN'S COMPENSATION LAW OR ARISING OUT OF THE CONTRACTOR TO CONFORM TO ANY SUITS REGULATION LAW OR COURT DECREE.
- CONTRACTOR SHALL VERIFY INSTALLATION CONDITIONS PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE IRRIGATION COVERAGE TO ALL PLANT MATERIAL.
- INSTALL MAINLINES 2 1/2" AND SMALLER WITH 18 INCHES OF COVER LINES 3" AND 4" SHALL HAVE 24" MINIMUM COVER 6" AND LARGER SHALL HAVE 36" COVER MINIMUM.
- INSTALL LATERAL LINES WITH 12" MINIMUM COVER.
- INSTALL ALL SLEEVES AT PIPE DEPTHS OR AT 36" MINIMUM COVER WHEN UNDER DRIVING SURFACES.
- 24 VOLT CONTROL WIRE CONNECTIONS ARE TO BE MADE WITH APPROVED WATERPROOF WIRE CONNECTORS WITH SEALANT.
- ALL VALVE BOXES SHALL BE TAN IN COLOR WHEN INSTALLED IN GRANITE AREAS OR GREEN COLOR WHEN INSTALLED IN TURF AREAS.
- ALL IRRIGATION EQUIPMENT SHALL BE INSTALLED PER PROJECT SPECIFICATIONS CITY OF PHOENIX STANDARD DETAILS IRRIGATION DETAILS IN PLANS AND PER MANUFACTURER'S SPECIFICATIONS.
- ALL EXISTING IRRIGATION EQUIPMENT REMOVED THAT IS CAPABLE OF BEING REUSED SHALL BE SALVAGED IN EXISTING CONDITION AND PRESENTED TO CITY FOR THEIR OPTION TO RETAIN OR FOR CONTRACTOR TO PROPERLY DISPOSE OF.
- ALL CONTROL WIRES SHALL BE SLEEVED IN SCHEDULE 40 PVC CONDUITS AS NOTED PER PLANS AND INSTALLED ADJACENT TO PIPE SLEEVES LOCATED PER TRENCHING PIPE & WIRE DETAIL.
- ALL GEOTEXTILE FABRIC FOR IRRIGATION EQUIPMENT SUMPS SHALL BE NON-WOVEN CLASS 'B' PER MAG SECTION 796.2.2.

IRRIGATION CONTRACTOR NOTES:

- CONTRACTOR SHALL VERIFY STATIC PRESSURE AT CITY MAINLINE PRIOR TO INITIATING ANY WORK AND NOTIFY BOTH CITY AND LANDSCAPE ARCHITECT IF STATIC PRESSURE IS BEYOND 10 PSI ABOVE OR BELOW STATIC DESIGN PRESSURE OF 60 PSI PRIOR TO INITIATING ANY WORK.
- THE PLANS INDICATE A DETAILED LAYOUT OF IRRIGATION MAINLINE PIPES LATERAL PIPES POINT OF CONNECTION EQUIPMENT CONTROLLER & VALVE LOCATIONS HOWEVER THE PIPING IS SHOWN SCHEMATICALLY AS SOME LINES SHOWN ADJACENT TO EACH OTHER ARE INTENDED TO BE IN SAME TRENCH OR MAY BE SHOWN OUTSIDE OF THE PLANTING AREAS FOR GRAPHIC CLARITY. THE CONTRACTOR SHALL FOLLOW THE INTENT OF THE PLAN LAYOUT AND SHALL REVIEW AND OBTAIN WRITTEN APPROVAL FROM THE OWNER'S AUTHORIZED REPRESENTATIVE FOR ANY REQUESTED CHANGES.
- DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM WHEN IT IS OBVIOUS IN THE FIELD THAT DISCREPANCIES IN CONSTRUCTION SPECIFICATIONS DETAILS LEGENDS OR NOTES ARE DISCOVERED. BRING ALL SUCH DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE UPON DISCOVERY.
- THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF IRRIGATION SLEEVING. SLEEVES ARE REQUIRED FOR BOTH PIPING AND ELECTRICAL WIRING AT EACH HARDSCAPE CROSSING. COORDINATE INSTALLATION OF SLEEVING WITH OTHER TRADES. ANY PIPE OR WIRE WHICH PASSES BENEATH EXISTING HARDSCAPE WHERE SLEEVING WAS NOT INSTALLED REQUIRES HORIZONTAL BORING BY THE IRRIGATION CONTRACTOR AT NO ADDITIONAL EXPENSE TO CITY FOR BORING IF SHOWN IN PLANS AND NOT INSTALLED PRIOR TO INSTALLATION OF HARDSCAPE. SLEEVES UNDER EXISTING ROADWAYS ARE NOTED IN PLANS TO BE DIRECTIONAL BORED.
- CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM FOR A PERIOD OF ONE YEAR AFTER PROJECT CONSTRUCTION ACCEPTANCE. MAINTENANCE SHALL INCLUDE ALL NECESSARY REPLACEMENTS ADJUSTMENTS AND CLEAN UP OPERATIONS.
- CONTRACTOR SHALL GUARANTEE THE IRRIGATION SYSTEM MATERIALS AND LABOR FOR A PERIOD OF ONE (1) YEAR AFTER PROJECT CONSTRUCTION ACCEPTANCE.
- ALL QUICK COUPLERS SHALL INCLUDE SWING JOINTS AS SPECIFIED.
- ADJUST IRRIGATION OPERATING TIMES TO ACCOMMODATE FOR PLANT MATURITY SOIL TYPE PLANT EXPOSURE SLOPE CONDITIONS AND SEASONAL REQUIREMENTS.

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION GENERAL NOTES

CITY OF PHOENIX ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161



DR: KW	DES: KW	CK: JE	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	56	72
SCALE: 1" = 20' NTS				

ST87100161, 11/14/17

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK

IRRIGATION LEGEND			
DETAIL	SYMBOL	DESCRIPTION	TY.
	WM	WATER METER: 1.0" TAP SERVICE LINE & WATER METER INSTALLED BY CITY OF PHOENIX PER C.O.P. STD. DTL.S. P1315, P1342 & P1363- CONTRACTOR SHALL PURCHASE AND COORDINATE INSTALLATION WITH CITY	1 EA.
1 SHT. 69	B	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY: 1.5" FEBCO B25YA WITH STREET ELLS: 1.5" COPPER UNION 1.5" TYPE 'K' COPPER HARD PIPES ABOVE GRADE AND BENEATH UNTIL 12" BEYOND PAD EDGES INSTALL WITHIN GUARDSHACK GS-1 ENCLOSURE POWDER COATED 'WOODLAND TAN' BY MANUF. WITH LOCK GUARDS ON 4" DEPTH 2500 PSI CONCRETE PAD WITH PAD EDGES EXTENDING 6" MINIMUM BEYOND EDGES OF ENCLOSURE INSTALL PER C.O.P. STD. DTL. PE-1354.	1 EA.
2 SHT. 69	S	SOLAR POWER UNIT: RAINSAFE ASSEMBLIES BY TURFGRO SOLAR POWER SUPPLIES GENERATION 1 LEVEL 1 SOLAR POWER KIT RSSPSL1 WITH ONE 104 AH 12VDC BATTERY ONE 135W SOLAR PANEL WITH MOUNTING BRACKETS 150W 12VDC TO 24VAC 120VAC INVERTER 15A DIGITAL BATTERY CHARGE CONTROLLER AND POWDER COATED ALUMINUM POLE MOUNT ENCLOSURE WITH MOUNTING BRACKETS INCLUDE ADDITIONAL MOUNTING BRACKETS B25ECO-BKTSET TO MOUNT CONTROLLER ENCLOSURE TO POLE CONTRACTOR TO SUPPLY 4" DIA. 17-6" GALVANIZED SCHEDULE 40 STEEL POLE & CAP (14'-0" ABOVE GRADE) 1/2" FLEX CONDUIT & CONNECTORS 12 AWG THHN BLACK & WHITE WIRES FOR CONNECTION OF SOLAR PANEL TO CHARGE CONTROLLER AND 3000 PSI CONCRETE FOOTING SIZED PER DETAIL. CONTRACTOR SHOULD COORDINATE ALL SOLAR POWER UNIT MATERIALS THROUGH HORIZON DISTRIBUTORS INC.	1 EA.
3 SHT. 69	A	CONTROLLER 'A': RAIN MASTER EAGLE PLUS EGP16-S CONVENTIONAL 16 STATIONS ET BASED CONTROLLER WITH CENTRAL INTERNET-BASED CENTRAL CONTROL PROGRAMMING MOUNT IN EXPANDED STAINLESS STEEL WALL MOUNT ENCLOSURE ATTACHED TO SOLAR POWER UNIT POLE WITH ADDITIONAL BRACKETS PROVIDED WITH SOLAR POWER UNIT ALL CONTROL WIRES SHALL BE 14 AWG WITH RED FOR CONTROL WHITE FOR COMMON & ONE CONTINUOUS GREEN SPARE WIRE FROM CONTROLLER COILED INTO EACH VALVE BOX CONTINUING TO FURTHEST CONTROL VALVES IN EACH DIRECTION. CONTRACTOR SHOULD COORDINATE ALL CONTROLLER MATERIALS THROUGH HORIZON DISTRIBUTORS INC.	1 EA.
4 SHT. 69		MASTER VALVE ASSEMBLY: 1.5" GRISWOLD 2160 NORMALLY CLOSED VALVE 24V EPOXY COATED INSIDE & OUT (2) 1.5" SPEARS B97-015 SCH 80 PVC UNION CHRISTY'S STANDARD YELLOW WIRE ID TAG INSTALL IN CARSON 1324-12 SUPER JUMBO TAN COLOR VALVE BOX WITH BOLT DOWN T-COVER CONTRACTOR TO PROVIDE THREE 14 AWG WIRES (BROWN & YELLOW COLORS TO MV & ONE GREEN SPARE CONTINUOUS TO MV & FS) TO CONTROLLER IN 1 1/2" SCHEDULE 40 PVC CONDUIT WHEN BELOW GRADE AND 1 1/2" EMT CONDUIT WHEN ABOVE GRADE AT CONTROLLER.	1 EA.
4 SHT. 69	F	FLOW SENSOR ASSEMBLY: IRRITROL 1.0" BRASS T-STYLE SENSOR LFS-B100 CAPABLE OF MONITORING FLOWS FROM 2 - 40 GPM INSTALL IN CARSON 910 TAN COLOR VALVE BOX WITH BOLT DOWN T-COVER CONTRACTOR TO PROVIDE TWO 14 AWG WIRES (BLUE & ORANGE COLORS) TO SENSOR IN 1" SCHEDULE 40 PVC CONDUIT WHEN BELOW GRADE AND 1" EMT CONDUIT WHEN ABOVE GRADE AT CONTROLLER.	1 EA.
1 SHT. 70		ISOLATION BALL VALVE ASSEMBLY: 1" & 1.5" WILKINS B50XL-U-SB FULL PORT LEAD FREE BRASS BALL VALVE WITH SINGLE UNION AND STAINLESS STEEL BALL & HANDLE 1.5" SPEARS B97-015 SCH 80 PVC UNION INSTALL IN CARSON 1220 TAN COLOR VALVE BOX WITH BOLT DOWN T-COVER.	1" - 1 EA. 1.5" - 4 EA.
2 SHT. 70		QUICK COUPLER ASSEMBLY: 1" RAIN BIRD 44-LRC WITH LOCKING RUBBER COVER 1" LASCO SWING JOINT G112-212 STANDARD UNITIZED WITH 12" LAY LENGTH INSTALL IN CARSON 910 TAN COLOR VALVE BOX WITH BOLT DOWN T-COVER CONTRACTOR TO PROVIDE TWO SETS OF RAIN BIRD VALVE KEY 44K 1" FPT 3/4" MHT HOSE SWIVEL SH-11 & LOCKING COVER KEY 2049 TO CITY.	1 EA.
3 SHT. 70		DRIP REMOTE CONTROL VALVE ASSEMBLY: 1" RAIN BIRD 100-PEB CONTROL VALVE WITH 1" PRESSURE REGULATING (40 PSI) QUICK-CHECK BASKET FILTER PRB-KCHK-100 1" SPEARS 2000 SERIES FULL PORT TRUE UNION 235 PSI PVC BALL VALVE B29-10 1" SPEARS B97-010 SCH 80 PVC UNION CHRISTY'S STANDARD YELLOW WIRE ID TAG INSTALL IN CARSON 1324-12 SUPER JUMBO TAN COLOR VALVE BOX WITH BOLT DOWN T-COVER.	12 EA.
1 SHT. 77	NOT SHOWN	MULTI-OUTLET EMITTER: RAIN BIRD XERI-BUG PRESSURE COMPENSATING SIX OUTLET EMITTER XBT-10 (1.0 GPH) OR XBT-20 (2.0 GPH) WITH 1 1/2" THREADED INLET 1 1/2" PVC FLEX RISER INSTALL IN 5" ROUND CARSON 510 TAN COLOR EMITTER BOX EMITTER (DISTRIBUTION) TUBES SHALL BE VINYL.	290 EA.
2 SHT. 77	NOT SHOWN	SINGLE-OUTLET EMITTER: RAIN BIRD XERI-BUG PRESSURE COMPENSATING SINGLE EMITTER XBT-10 (1.0 GPH) OR XBT-20 (2.0 GPH) WITH 1 1/2" THREADED INLET DIRECT BURY INSTALLED ON 1 1/2" PVC FLEX RISER (NO EMITTER TUBE) - LOCATE PER DETAIL.	1,834 EA.
3 SHT. 77		DRIP LATERAL FLUSH END CAP ASSEMBLY: 3/4" JAIN API PVC BALL VALVE 3/4-BU-AG WITH FEMALE HOSE SWIVEL INLET & MALE HOSE THREAD OUTLET ON JAIN PEPCO 3/4" MHT 3/4" SPIGOT PVC ADAPTER FAM-H2P 3/4" PVC FLEX PIPE RISER WITH SCH 40 PVC FITTINGS INSTALL IN CARSON 910 10" ROUND TAN COLOR VALVE BOX WITH BOLT DOWN T-COVER.	36 EA.
1 SHT. 77		MAINLINE PIPE: 1" OR 1.5" SCHEDULE 40 PVC SOLVENT WELD PIPE WITH SCH 80 PVC FITTINGS	1" - 97 LF 1.5" - 3,801 LF
		SHRUB ACCENT DRIP LATERAL PIPE: 3/4" SCHEDULE 40 PVC SOLVENT WELD PIPE WITH SCH 40 PVC FITTINGS	17,779 LF
		TREE DRIP LATERAL PIPE: 3/4" SCHEDULE 40 PVC SOLVENT WELD PIPE WITH SCH 40 PVC FITTINGS	10,033 LF
2 SHT. 77	X" PS X" PS-BORE 1" WS	SLEEVES: PIPE SLEEVES (PS) WITH DIRECT BURY INSTALL: 2" OR 3" OR 6" SCHEDULE 40 PVC PIPE SLEEVES WITH DIRECTIONAL BORE INSTALL: 6" SCH 40 PVC SLEEVE BORED UNDER EXISTING ROADWAYS - BORE PER MAG SECTION 608 WIRE SLEEVES (WS): 1" SCHEDULE 40 PVC GRAY ELECTRICAL CONDUIT INSTALLED THROUGH PIPE SLEEVES AS NOTED ON PLANS	DIRECT BURY 2" - 340 LF 3" - 483 LF 6" - 110 LF D-BORE 6" - 145 LF WIRE SLEEVE 1" - 274 LF

VALVE KEY LEGEND	
	VALVE SIZE
	CONTROLLER LETTER - STATION NUMBER
	VALVE FLOW IN GPM
	ZONE TYPE:
	TREES DRIP TO TREES
	SHRUBS DRIP TO SHRUBS

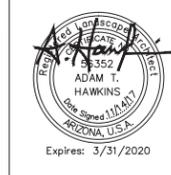
EMITTER SCHEDULE					
SYM.	SPECIES:	EMITTER TYPE (A)	EMITTER TY. PER PLANT (B)	TY. OPEN PORTS PER EMITTER (C)	TOTAL FLOW PER PLANT (D)
TREES					
	ACACIA ANUERA MULGA	1.0 GPH MULTI	1	6	6 GPH
	ACACIA SALICINA WEeping ACACIA	1.0 GPH MULTI	1	6	6 GPH
	EUCALYPTUS PAPIUANA GHOST GUM	1.0 GPH MULTI	1	6	6 GPH
	PARKINSONIA FLORIDA BLUE PALO VERDE	1.0 GPH MULTI	1	6	6 GPH
	TIPUANA TIPU TIPU TREE	2.0 GPH MULTI	1	6	12 GPH
SHRUBS GROUNDCOVERS					
	BOUGAINVILLEA SP. BOUGAINVILLEA	1.0 GPH SINGLE	2	-	2 GPH
	CORDIA PARVIFOLIA LITTLE LEAF CORDIA	1.0 GPH SINGLE	2	-	2 GPH
	EREMOPHILA GLABRA OUTBACK SUNRISE EMU	1.0 GPH SINGLE	1	-	1 GPH
	LARREA TRIDENTATA CREOSOTE	1.0 GPH SINGLE	1	-	1 GPH
ACCENTS					
	ASCLEPIAS SUBULATA DESERT MILKWEEED	1.0 GPH SINGLE	1	-	1 GPH
	DASYLIRION ACROTRICHE GREEN DESERT SPOON	1.0 GPH SINGLE	1	-	1 GPH
	EUPHORBIA ANTISYPHILITICA CANDELILLA	1.0 GPH SINGLE	1	-	1 GPH
	OPUNTIA CACANAPA 'ELLISIANA' SPINELESS PRICKLY PEAR	1.0 GPH SINGLE	1	-	1 GPH
	YUCCA PALLIDA PALE LEAF YUCCA	1.0 GPH SINGLE	1	-	1 GPH

EMITTER NOTES:

- SEE 'EMITTER SCHEDULE' FOR EMITTER FLOWS & QUANTITIES PER PLANT. SEE EMITTER DETAILS FOR REQUIRED LAYOUT.
- DO NOT SUBSTITUTE SINGLE-OUTLET EMITTERS FOR MULTI-OUTLET EMITTERS. INSTALL EMITTERS PER EMITTER SCHEDULE.
- LOCATE ALL EMITTERS UPHILL OF PLANT WHEN ON A SLOPE.
- ALL TREE EMITTER (DISTRIBUTION) TUBES SHALL BE VINYL MATERIAL SHALL NOT EXCEED 10'-0" IN LENGTH AND SHALL BE VISIBLE AND CUT 1" MINIMUM TO 2" MAXIMUM ABOVE FINISH GRADE OF DECOMPOSED GRANITE AS SHOWN PER DETAIL. DO NOT KINK EMITTER TUBES.
- ALL SHRUB ACCENT SINGLE-OUTLET EMITTERS SHALL BE VISIBLE WITH EMITTER INSTALLED ABOVE FINISH GRADE OF DECOMPOSED GRANITE AS SHOWN PER DETAIL.
- ALL MULTI-OUTLET EMITTERS ARE TO BE INSTALLED IN EMITTER BOXES TO ALLOW FOR FUTURE SERVICE.

GENERAL IRRIGATION NOTES:

- ALL IRRIGATION EQUIPMENT TO BE INSTALLED PER IRRIGATION DETAILS AND PER MANUFACTURER'S SPECIFICATIONS.
- ALL ITEMS TO BE BID AS NOTED OR AS AN APPROVED EQUAL. NO SUBSTITUTIONS SHALL BE ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED IN WRITING FROM THE CITY OF PHOENIX REPRESENTATIVE.
- ALL VALVE BOXES SHALL INCLUDE STAINLESS STEEL BOLT-DOWN OR LOCKABLE STYLE COVERS WITH 1" MINIMUM EMBOSSED LETTERS (NUMBERS AS NOTED IN DETAILS (EXCEPT EMITTER BOXES).
- ALL VALVE BOXES AND COVERS SHALL BE TAN COLOR.
- SPARE WIRES SHALL BE LABELED IN CONTROLLER WITH STATION WHERE WIRE TERMINATES.



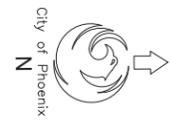
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	57	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION SUMMARY				
CITY OF PHOENIX ARIZONA STREET TRANSPORTATION DEPARTMENT				
107TH AVENUE INDIAN SCHOOL TO CAMELBACK ST87100161				
DR: KW	DES: KW	CK: JE	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	57	72
SCALE: 1" = 20' NTS				



107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	58	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

IRRIGATION LEGEND

DETAIL:	SYMBOL:	DESCRIPTION:
(-)	WM	WATER METER: 1.0" PER C.O.P. STANDARDS
1 SHT. 69	B	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY: 1.5"
2 SHT. 69	S	SOLAR POWER UNIT ASSEMBLY
3 SHT. 69	A	IRRIGATION CONTROLLER 'A': 16 STATIONS
4 SHT. 69	■	MASTER VALVE ASSEMBLY: 1.5" NORMALLY CLOSED
4 SHT. 69	F	FLOW SENSOR ASSEMBLY: 1.0"
1 SHT. 70	◀▶	ISOLATION BALL VALVE ASSEMBLY: 1" & 1.5"
2 SHT. 70	□	QUICK COUPLER VALVE ASSEMBLY: 1.0"
3 SHT. 70	⊙	DRIP REMOTE CONTROL VALVE ASSEMBLY: 1.0"
1 SHT. 71	NOT SHOWN	MULTI-OUTLET EMITTER ASSEMBLY
2 SHT. 71	NOT SHOWN	SINGLE-OUTLET EMITTER ASSEMBLY
3 SHT. 71	◆	FLUSH END CAP ASSEMBLY: 3/4"
1 SHT. 72	—	MAINLINE PIPE: 1" OR 1.5" SCH 40 PVC SOLVENT WELD
	- - -	SHRUB ACCENT DRIP LATERAL PIPE: 3/4" SCHEDULE 40 PVC
	- · - · -	TREE DRIP LATERAL PIPE: 3/4" SCHEDULE 40 PVC
2 SHT. 72	○	PIPE SLEEVES WITH DIRECT BURY INSTALL □ X" PS-SIZE NOTED PER PLANS
	○	PIPE SLEEVES WITH DIRECTIONAL BORE INSTALL □ X" PS-BORE-SIZE NOTED PER PLANS
	—	WIRE SLEEVES (WS) □ 1" SCH 40 PVC CONDUIT (OCCURS ONLY WHERE NOTED PER PLANS IN MAINLINE PIPE SLEEVES)

VALVE KEY LEGEND:

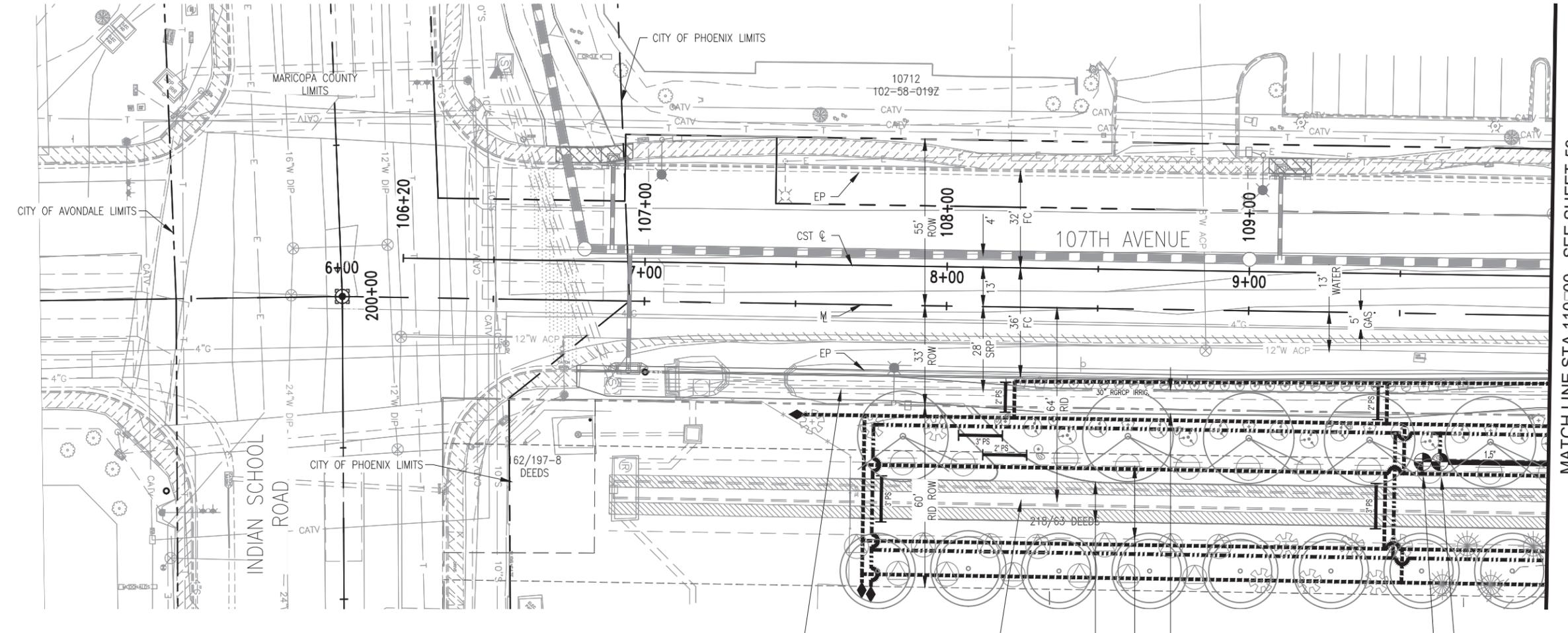
○	VALVE SIZE
●	CONTROLLER LETTER - STATION NUMBER
→	VALVE FLOW IN GPM
□	ZONE TYPE:
○	TREES
□	DRIP TO TREES
○	SHRUBS
□	DRIP TO SHRUBS

- GENERAL IRRIGATION NOTES:**
- ALL IRRIGATION EQUIPMENT TO BE INSTALLED PER IRRIGATION DETAILS AND PER MFG'S SPECIFICATIONS.
 - ALL ITEMS TO BE BID AS NOTED OR AS AN APPROVED EQUAL. NO SUBSTITUTIONS SHALL BE ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED IN WRITING FROM THE CITY OF PHOENIX REPRESENTATIVE.
 - ALL VALVE BOXES SHALL INCLUDE STAINLESS STEEL BOLT-DOWN OR LOCKABLE T-STYLE COVERS WITH EMBOSSED LETTERS AS NOTED IN DETAILS (EXCEPT EMITTER BOXES). ALL VALVE BOXES AND COVERS SHALL BE TAN COLOR.
- "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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN
CITY OF PHOENIX ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: KW	DES: KW	CK: JE	SHEET	TOTAL
DATE: 11/17	DATE: 11/17	DATE: 11/17	NO: 58	SHEETS 72
SCALE: 1" = 20' NTS				



EXISTING SALT RIVER PROJECT (S.R.P.)
30" RGRCP IRRIGATION PIPE,
PROTECT IN PLACE, RTYP.

EXISTING ROOSEVELT IRRIGATION DISTRICT (R.I.D.)
60" RGRCP IRRIGATION PIPE,
PROTECT IN PLACE, RTYP.

13' RID
O&M ACCESS ROAD

24' RID
CLEAR ZONE

8' SW
SEE CIVIL PLANS

A-2	1"	3.5 GPM	TREES
A-1	1"	3.2 GPM	SHRUBS

MATCH LINE STA 110+00 - SEE SHEET 59

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE

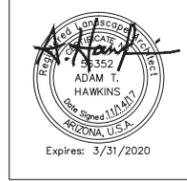
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	59	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

IRRIGATION LEGEND

DETAIL:	SYMBOL:	DESCRIPTION:
(-)	WM	WATER METER: 1.0" PER C.O.P. STANDARDS
1 SHT. 69	B	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY: 1.5"
2 SHT. 69	S	SOLAR POWER UNIT ASSEMBLY
3 SHT. 69	A	IRRIGATION CONTROLLER 'A': 16 STATIONS
4 SHT. 69	■	MASTER VALVE ASSEMBLY: 1.5" NORMALLY CLOSED
4 SHT. 69	F	FLOW SENSOR ASSEMBLY: 1.0"
1 SHT. 70	◀▶	ISOLATION BALL VALVE ASSEMBLY: 1" & 1.5"
2 SHT. 70	◻	QUICK COUPLER VALVE ASSEMBLY: 1.0"
3 SHT. 70	⊗	DRIP REMOTE CONTROL VALVE ASSEMBLY: 1.0"
1 SHT. 71	NOT SHOWN	MULTI-OUTLET EMITTER ASSEMBLY
2 SHT. 71	NOT SHOWN	SINGLE-OUTLET EMITTER ASSEMBLY
3 SHT. 71	◆	FLUSH END CAP ASSEMBLY: 3/4"
1 SHT. 72	—	MAINLINE PIPE: 1" OR 1.5" SCH 40 PVC SOLVENT WELD
	- - -	SHRUB ACCENT DRIP LATERAL PIPE: 3/4" SCHEDULE 40 PVC
	- · - · -	TREE DRIP LATERAL PIPE: 3/4" SCHEDULE 40 PVC
	—	SLEEVES: PIPE SLEEVES WITH DIRECT BURY INSTALL □ X" PS-SIZE NOTED PER PLANS
2 SHT. 72	—	PIPE SLEEVES WITH DIRECTIONAL BORE INSTALL □ X" PS-BORE-SIZE NOTED PER PLANS
	—	WIRE SLEEVES (WS) □ 1" SCH 40 PVC CONDUIT (OCCURS ONLY WHERE NOTED PER PLANS IN MAINLINE PIPE SLEEVES)

VALVE KEY LEGEND:

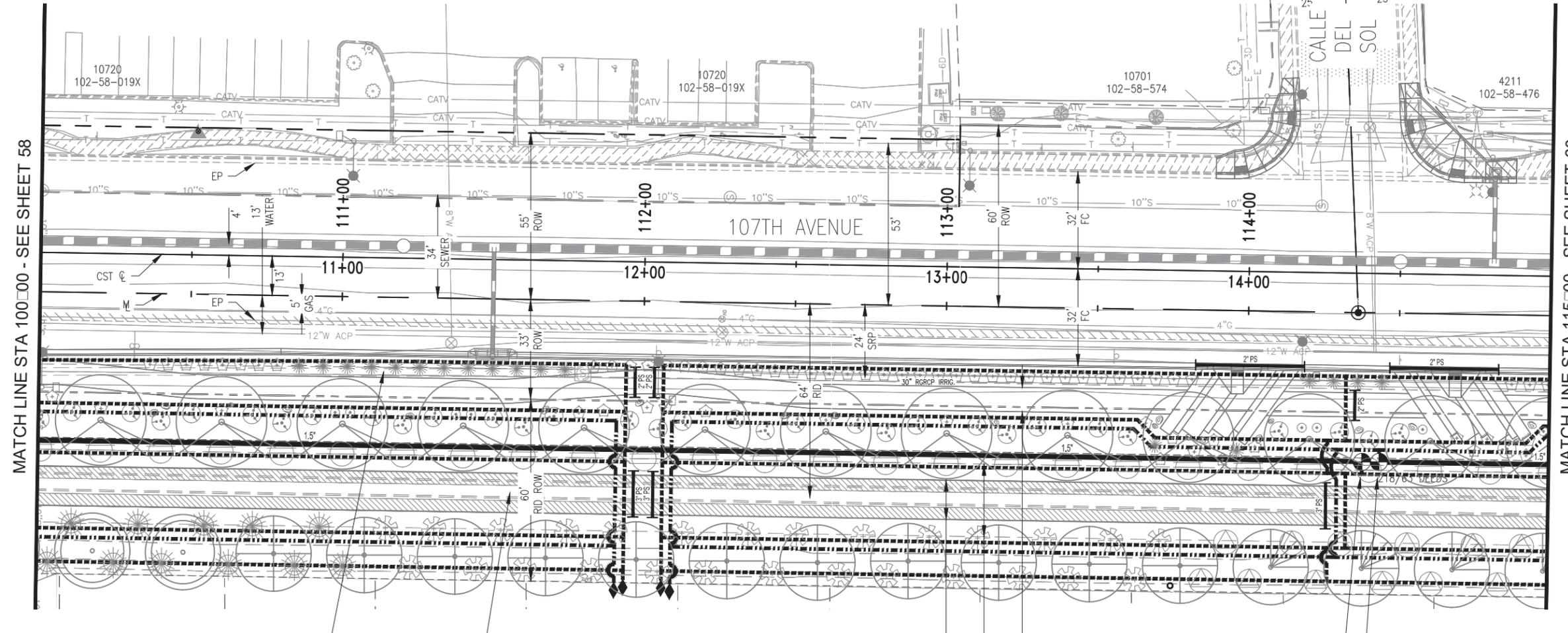
○	VALVE SIZE
●	CONTROLLER LETTER - STATION NUMBER
→	VALVE FLOW IN GPM
□	ZONE TYPE:
○	TREES
□	DRIP TO TREES
○	SHRUBS
□	DRIP TO SHRUBS

- GENERAL IRRIGATION NOTES:**
- ALL IRRIGATION EQUIPMENT TO BE INSTALLED PER IRRIGATION DETAILS AND PER MFG'S SPECIFICATIONS.
 - ALL ITEMS TO BE BID AS NOTED OR AS AN APPROVED EQUAL. NO SUBSTITUTIONS SHALL BE ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED IN WRITING FROM THE CITY OF PHOENIX REPRESENTATIVE.
 - ALL VALVE BOXES SHALL INCLUDE STAINLESS STEEL BOLT-DOWN OR LOCKABLE T-STYLE COVERS WITH EMBOSSED LETTERS AS NOTED IN DETAILS (EXCEPT EMITTER BOXES). ALL VALVE BOXES AND COVERS SHALL BE TAN COLOR.
- "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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN
CITY OF PHOENIX ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: KW	DES: KW	CK: JE	SHEET	TOTAL
DATE: 11/17	DATE: 11/17	DATE: 11/17	NO:	SHEETS
SCALE: 1" = 20' NTS			59	72



MATCH LINE STA 100+00 - SEE SHEET 58

MATCH LINE STA 115+00 - SEE SHEET 60

EXISTING SALT RIVER PROJECT (S.R.P.)
30" RGRCP IRRIGATION PIPE,
PROTECT IN PLACE, RTYP.

EXISTING ROOSEVELT IRRIGATION DISTRICT (R.I.D.)
60" RGRCP IRRIGATION PIPE,
PROTECT IN PLACE, RTYP.

13' RID
O&M ACCESS ROAD

24' RID
CLEAR ZONE

8' SW
SEE CIVIL PLANS

A-3
1" 4.3 GPM
SHRUBS

A-4
1" 2.8 GPM
TREES

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE

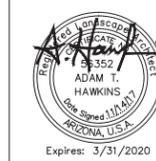
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE



ST87100161, 11/14/17

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	61	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

IRRIGATION LEGEND

DETAIL:	SYMBOL:	DESCRIPTION:
(-)	WM	WATER METER: 1.0" PER C.O.P. STANDARDS
1 SHT. 69	B	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY: 1.5"
2 SHT. 69	S	SOLAR POWER UNIT ASSEMBLY
3 SHT. 69	A	IRRIGATION CONTROLLER 'A': 16 STATIONS
4 SHT. 69	■	MASTER VALVE ASSEMBLY: 1.5" NORMALLY CLOSED
4 SHT. 69	F	FLOW SENSOR ASSEMBLY: 1.0"
1 SHT. 70	⊘	ISOLATION BALL VALVE ASSEMBLY: 1" & 1.5"
2 SHT. 70	□	QUICK COUPLER VALVE ASSEMBLY: 1.0"
3 SHT. 70	⊙	DRIP REMOTE CONTROL VALVE ASSEMBLY: 1.0"
1 SHT. 71	NOT SHOWN	MULTI-OUTLET EMITTER ASSEMBLY
2 SHT. 71	NOT SHOWN	SINGLE-OUTLET EMITTER ASSEMBLY
3 SHT. 71	◆	FLUSH END CAP ASSEMBLY: 3/4"
1 SHT. 72	—	MAINLINE PIPE: 1" OR 1.5" SCH 40 PVC SOLVENT WELD
	- - -	SHRUB ACCENT DRIP LATERAL PIPE: 3/4" SCHEDULE 40 PVC
	- · - · -	TREE DRIP LATERAL PIPE: 3/4" SCHEDULE 40 PVC
	○	SLEEVES: PIPE SLEEVES WITH DIRECT BURY INSTALL □ X" PS-SIZE NOTED PER PLANS
2 SHT. 72	○	PIPE SLEEVES WITH DIRECTIONAL BORE INSTALL □ X" PS-BORE-SIZE NOTED PER PLANS
	—	WIRE SLEEVES (WS) □ 1" SCH 40 PVC CONDUIT (OCCURS ONLY WHERE NOTED PER PLANS IN MAINLINE PIPE SLEEVES)

VALVE KEY LEGEND:

○	VALVE SIZE
○	CONTROLLER LETTER - STATION NUMBER
○	VALVE FLOW IN GPM
○	ZONE TYPE:
○	TREES □ DRIP TO TREES
○	SHRUBS □ DRIP TO SHRUBS

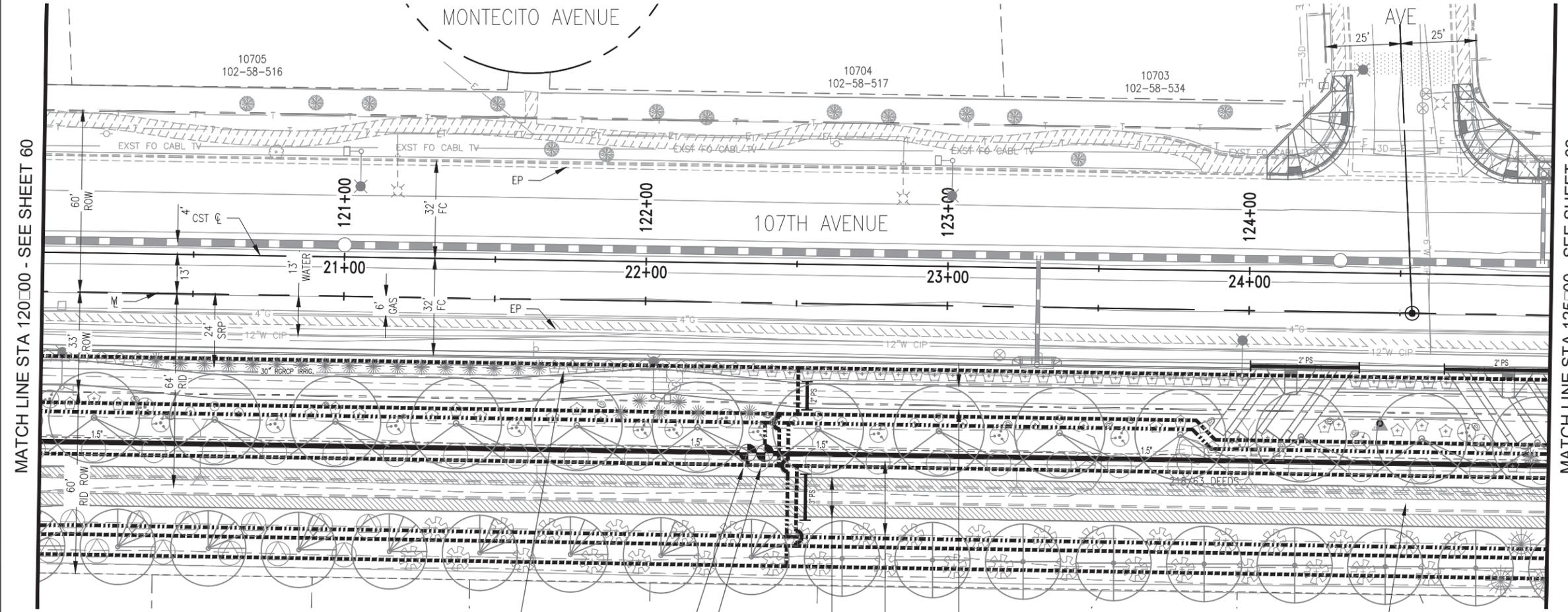
- GENERAL IRRIGATION NOTES:**
- ALL IRRIGATION EQUIPMENT TO BE INSTALLED PER IRRIGATION DETAILS AND PER MFG'S SPECIFICATIONS.
 - ALL ITEMS TO BE BID AS NOTED OR AS AN APPROVED EQUAL. NO SUBSTITUTIONS SHALL BE ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED IN WRITING FROM THE CITY OF PHOENIX REPRESENTATIVE.
 - ALL VALVE BOXES SHALL INCLUDE STAINLESS STEEL BOLT-DOWN OR LOCKABLE T-STYLE COVERS WITH EMBOSSED LETTERS AS NOTED IN DETAILS (EXCEPT EMITTER BOXES). ALL VALVE BOXES AND COVERS SHALL BE TAN COLOR.
- "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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX ARIZONA STREET TRANSPORTATION DEPARTMENT

107TH AVENUE INDIAN SCHOOL TO CAMELBACK ST87100161

DR: KW	DES: KW	CK: JE	SHEET	TOTAL
DATE: 11/17	DATE: 11/17	DATE: 11/17	NO:	SHEETS
SCALE: 1" = 20' NTS			61	72



MATCH LINE STA 120+00 - SEE SHEET 60

MATCH LINE STA 125+00 - SEE SHEET 62

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	CHK BY	DATE

EXISTING SALT RIVER PROJECT (S.R.P.) 30" RGRCP IRRIGATION PIPE, PROTECT IN PLACE, RTYP.

A-5
1" 6.8 GPM
SHRUBS

A-6
1" 4.8 GPM
TREES

13' RID ACCESS ROAD

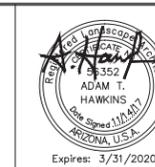
24' RID CLEAR ZONE

8' SW SEE CIVIL PLANS

EXISTING ROOSEVELT IRRIGATION DISTRICT (R.I.D.) 60" RGRCP IRRIGATION PIPE, PROTECT IN PLACE, RTYP.



107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	63	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

IRRIGATION LEGEND

DETAIL:	SYMBOL:	DESCRIPTION:
(-)	WM	WATER METER: 1.0" PER C.O.P. STANDARDS
1 SHT. 69	B	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY: 1.5"
2 SHT. 69	S	SOLAR POWER UNIT ASSEMBLY
3 SHT. 69	A	IRRIGATION CONTROLLER 'A': 16 STATIONS
4 SHT. 69	■	MASTER VALVE ASSEMBLY: 1.5" NORMALLY CLOSED
4 SHT. 69	F	FLOW SENSOR ASSEMBLY: 1.0"
1 SHT. 70	⊘	ISOLATION BALL VALVE ASSEMBLY: 1" & 1.5"
2 SHT. 70	□	QUICK COUPLER VALVE ASSEMBLY: 1.0"
3 SHT. 70	⊙	DRIP REMOTE CONTROL VALVE ASSEMBLY: 1.0"
1 SHT. 71	NOT SHOWN	MULTI-OUTLET EMITTER ASSEMBLY
2 SHT. 71	NOT SHOWN	SINGLE-OUTLET EMITTER ASSEMBLY
3 SHT. 71	◆	FLUSH END CAP ASSEMBLY: 3/4"
1 SHT. 72	—	MAINLINE PIPE: 1" OR 1.5" SCH 40 PVC SOLVENT WELD
	- - -	SHRUB ACCENT DRIP LATERAL PIPE: 3/4" SCHEDULE 40 PVC
	- · - · -	TREE DRIP LATERAL PIPE: 3/4" SCHEDULE 40 PVC
	—	SLEEVES: PIPE SLEEVES WITH DIRECT BURY INSTALL □ X" PS-SIZE NOTED PER PLANS
2 SHT. 72	—	PIPE SLEEVES WITH DIRECTIONAL BORE INSTALL □ X" PS-BORE-SIZE NOTED PER PLANS
	—	WIRE SLEEVES (WS) □ 1" SCH 40 PVC CONDUIT (OCCURS ONLY WHERE NOTED PER PLANS IN MAINLINE PIPE SLEEVES)

VALVE KEY LEGEND:

○	VALVE SIZE
●	CONTROLLER LETTER - STATION NUMBER
→	VALVE FLOW IN GPM
□	ZONE TYPE:
○	TREES
□	DRIP TO TREES
○	SHRUBS
□	DRIP TO SHRUBS

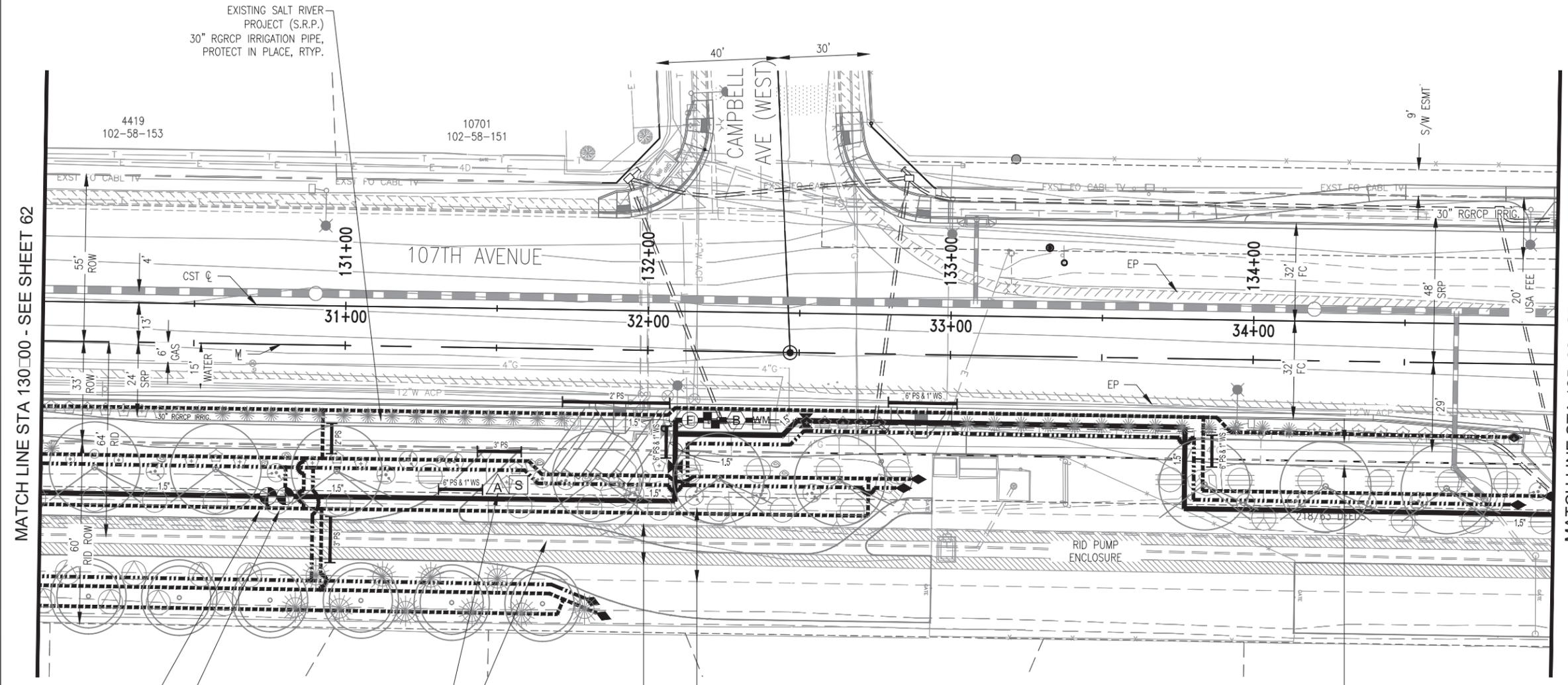
- GENERAL IRRIGATION NOTES:**
- ALL IRRIGATION EQUIPMENT TO BE INSTALLED PER IRRIGATION DETAILS AND PER MFG'S SPECIFICATIONS.
 - ALL ITEMS TO BE BID AS NOTED OR AS AN APPROVED EQUAL. NO SUBSTITUTIONS SHALL BE ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED IN WRITING FROM THE CITY OF PHOENIX REPRESENTATIVE.
 - ALL VALVE BOXES SHALL INCLUDE STAINLESS STEEL BOLT-DOWN OR LOCKABLE T-STYLE COVERS WITH EMBOSSED LETTERS AS NOTED IN DETAILS (EXCEPT EMITTER BOXES). ALL VALVE BOXES AND COVERS SHALL BE TAN COLOR.
- "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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: KW	DES: KW	CK: JE	SHEET	TOTAL
DATE: 11/17	DATE: 11/17	DATE: 11/17	NO:	SHEETS
SCALE: 1" = 20' NTS			63	72



MATCH LINE STA 130+00 - SEE SHEET 62

MATCH LINE STA 135+00 - SEE SHEET 64

A-7	1" 5.3 GPM	SHRUBS
A-8	1" 5.1 GPM	TREES

16 STATION IRRIGATION CONTROLLER MOUNTED TO SOLAR UNIT POLE

EXISTING ROOSEVELT IRRIGATION DISTRICT (R.I.D.) 60" RGRCP IRRIGATION PIPE, PROTECT IN PLACE, RTYP.

13' RID ACCESS ROAD

24' RID CLEAR ZONE

8' SW SEE CIVIL PLANS

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE

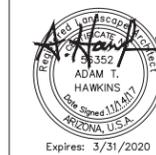
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE



ST87100161, 11/14/17

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	65	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

IRRIGATION LEGEND

DETAIL:	SYMBOL:	DESCRIPTION:
(-)	WM	WATER METER: 1.0" PER C.O.P. STANDARDS
1 SHT. 69	B	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY: 1.5"
2 SHT. 69	S	SOLAR POWER UNIT ASSEMBLY
3 SHT. 69	A	IRRIGATION CONTROLLER 'A': 16 STATIONS
4 SHT. 69	■	MASTER VALVE ASSEMBLY: 1.5" NORMALLY CLOSED
4 SHT. 69	F	FLOW SENSOR ASSEMBLY: 1.0"
1 SHT. 70	⊗	ISOLATION BALL VALVE ASSEMBLY: 1" & 1.5"
2 SHT. 70	⊞	QUICK COUPLER VALVE ASSEMBLY: 1.0"
3 SHT. 70	⊙	DRIP REMOTE CONTROL VALVE ASSEMBLY: 1.0"
1 SHT. 71	NOT SHOWN	MULTI-OUTLET EMITTER ASSEMBLY
2 SHT. 71	NOT SHOWN	SINGLE-OUTLET EMITTER ASSEMBLY
3 SHT. 71	◆	FLUSH END CAP ASSEMBLY: 3/4"
1 SHT. 72	—	MAINLINE PIPE: 1" OR 1.5" SCH 40 PVC SOLVENT WELD
	- - -	SHRUB ACCENT DRIP LATERAL PIPE: 3/4" SCHEDULE 40 PVC
	- · - · -	TREE DRIP LATERAL PIPE: 3/4" SCHEDULE 40 PVC
1 SHT. 72	□	SLEEVES: PIPE SLEEVES WITH DIRECT BURY INSTALL □ X" PS-SIZE NOTED PER PLANS
2 SHT. 72	□	PIPE SLEEVES WITH DIRECTIONAL BORE INSTALL □ X" PS-BORE-SIZE NOTED PER PLANS
	—	WIRE SLEEVES (WS) □ 1" SCH 40 PVC CONDUIT (OCCURS ONLY WHERE NOTED PER PLANS IN MAINLINE PIPE SLEEVES)

VALVE KEY LEGEND:

○	VALVE SIZE
●	CONTROLLER LETTER - STATION NUMBER
→	VALVE FLOW IN GPM
□	ZONE TYPE:
○	TREES □ DRIP TO TREES
●	SHRUBS □ DRIP TO SHRUBS

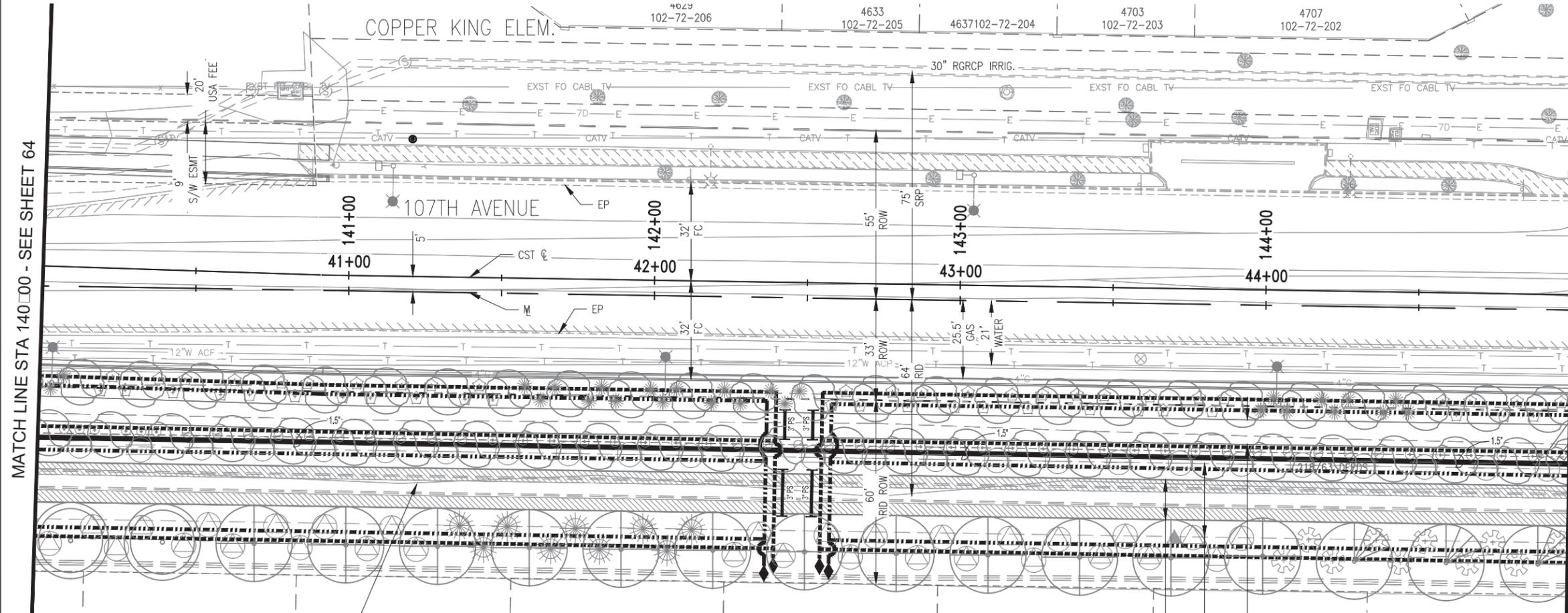
- GENERAL IRRIGATION NOTES:**
- ALL IRRIGATION EQUIPMENT TO BE INSTALLED PER IRRIGATION DETAILS AND PER MFG'S SPECIFICATIONS.
 - ALL ITEMS TO BE BID AS NOTED OR AS AN APPROVED EQUAL. NO SUBSTITUTIONS SHALL BE ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED IN WRITING FROM THE CITY OF PHOENIX REPRESENTATIVE.
 - ALL VALVE BOXES SHALL INCLUDE STAINLESS STEEL BOLT-DOWN OR LOCKABLE T-STYLE COVERS WITH EMBOSSED LETTERS AS NOTED IN DETAILS (EXCEPT EMITTER BOXES). ALL VALVE BOXES AND COVERS SHALL BE TAN COLOR.
- "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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: KW	DES: KW	CK: JE	SHEET	TOTAL
DATE: 11/17	DATE: 11/17	DATE: 11/17	NO:	SHEETS
SCALE: 1" = 20' NTS			65	72



EXISTING ROOSEVELT IRRIGATION DISTRICT (R.I.D.) 60" RGRCP IRRIGATION PIPE, PROTECT IN PLACE, RTYP.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE

REVISION BY CITY OF PHOENIX

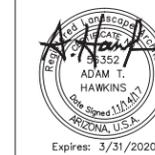
NO.	DESCRIPTION	REV BY	CHK BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE



107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	66	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

IRRIGATION LEGEND

DETAIL:	SYMBOL:	DESCRIPTION:
(-)	WM	WATER METER: 1.0" PER C.O.P. STANDARDS
1 SHT. 69	B	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY: 1.5"
2 SHT. 69	S	SOLAR POWER UNIT ASSEMBLY
3 SHT. 69	A	IRRIGATION CONTROLLER 'A': 16 STATIONS
4 SHT. 69	■	MASTER VALVE ASSEMBLY: 1.5" NORMALLY CLOSED
4 SHT. 69	F	FLOW SENSOR ASSEMBLY: 1.0"
1 SHT. 70	⊘	ISOLATION BALL VALVE ASSEMBLY: 1" & 1.5"
2 SHT. 70	□	QUICK COUPLER VALVE ASSEMBLY: 1.0"
3 SHT. 70	⊙	DRIP REMOTE CONTROL VALVE ASSEMBLY: 1.0"
1 SHT. 71	NOT SHOWN	MULTI-OUTLET EMITTER ASSEMBLY
2 SHT. 71	NOT SHOWN	SINGLE-OUTLET EMITTER ASSEMBLY
3 SHT. 71	◆	FLUSH END CAP ASSEMBLY: 3/4"
1 SHT. 72	—	MAINLINE PIPE: 1" OR 1.5" SCH 40 PVC SOLVENT WELD
	- - -	SHRUB ACCENT DRIP LATERAL PIPE: 3/4" SCHEDULE 40 PVC
	- · - · -	TREE DRIP LATERAL PIPE: 3/4" SCHEDULE 40 PVC
	—	SLEEVES: PIPE SLEEVES WITH DIRECT BURY INSTALL □ X" PS-SIZE NOTED PER PLANS
2 SHT. 72	—	PIPE SLEEVES WITH DIRECTIONAL BORE INSTALL □ X" PS-BORE-SIZE NOTED PER PLANS
	—	WIRE SLEEVES (WS) □ 1" SCH 40 PVC CONDUIT (OCCURS ONLY WHERE NOTED PER PLANS IN MAINLINE PIPE SLEEVES)

VALVE KEY LEGEND:

○	VALVE SIZE
●	CONTROLLER LETTER - STATION NUMBER
→	VALVE FLOW IN GPM
□	ZONE TYPE:
○	TREES
□	DRIP TO TREES
○	SHRUBS
□	DRIP TO SHRUBS

- GENERAL IRRIGATION NOTES:**
- ALL IRRIGATION EQUIPMENT TO BE INSTALLED PER IRRIGATION DETAILS AND PER MFG'S SPECIFICATIONS.
 - ALL ITEMS TO BE BID AS NOTED OR AS AN APPROVED EQUAL. NO SUBSTITUTIONS SHALL BE ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED IN WRITING FROM THE CITY OF PHOENIX REPRESENTATIVE.
 - ALL VALVE BOXES SHALL INCLUDE STAINLESS STEEL BOLT-DOWN OR LOCKABLE T-STYLE COVERS WITH EMBOSSED LETTERS AS NOTED IN DETAILS (EXCEPT EMITTER BOXES). ALL VALVE BOXES AND COVERS SHALL BE TAN COLOR.

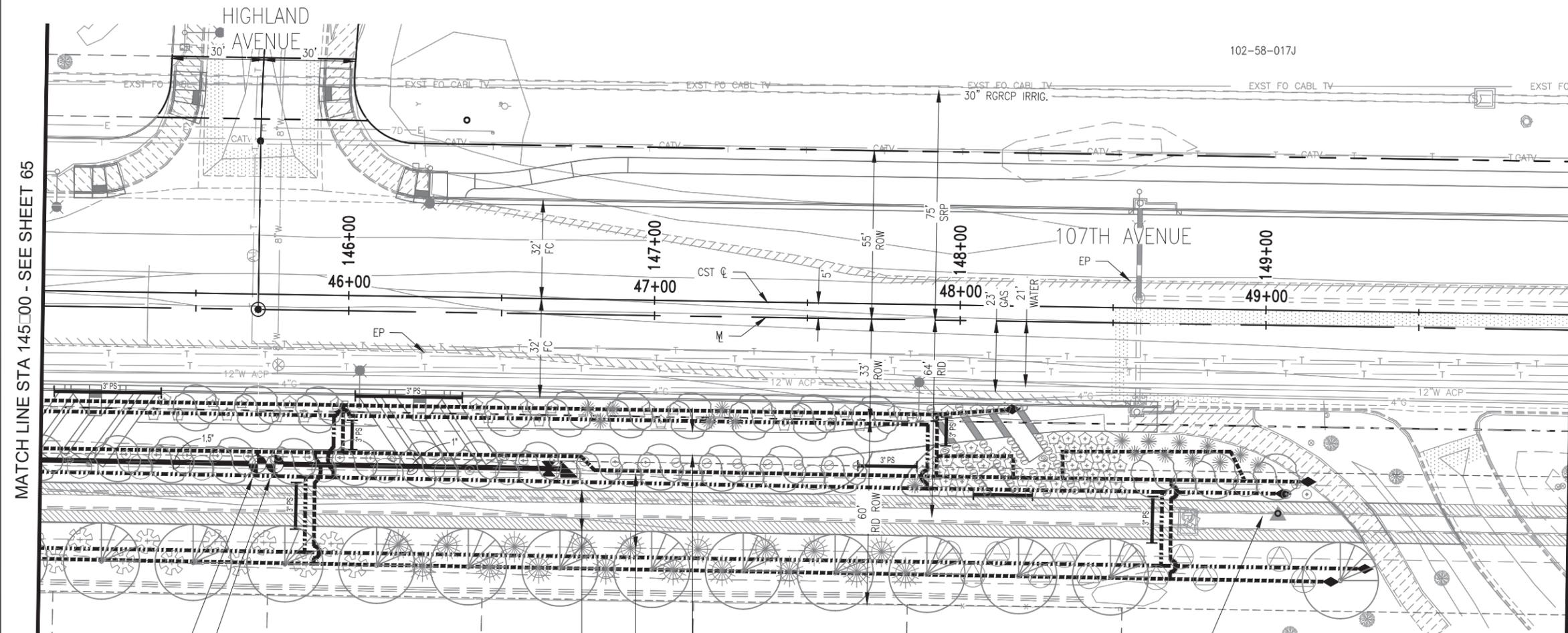
"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161

DR: KW	DES: KW	CK: JE	SHEET	TOTAL
DATE: 11/17	DATE: 11/17	DATE: 11/17	NO:	SHEETS
SCALE: 1" = 20' NTS			66	72



MATCH LINE STA 145+00 - SEE SHEET 65

MATCH LINE STA 150+00 - SEE SHEET 67

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	CHK BY	DATE

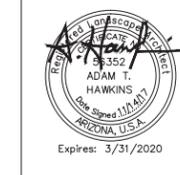
- A-11 1" 6.0 GPM SHRUBS
- A-12 1" 7.4 GPM TREES

- 13" RID O&M ACCESS ROAD
- 24" RID CLEAR ZONE
- 8' SW SEE CIVIL PLANS

EXISTING ROOSEVELT IRRIGATION DISTRICT (R.I.D.) 60" RGRCP IRRIGATION PIPE, PROTECT IN PLACE, RTYP.

ST87100161, 11/14/17

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK

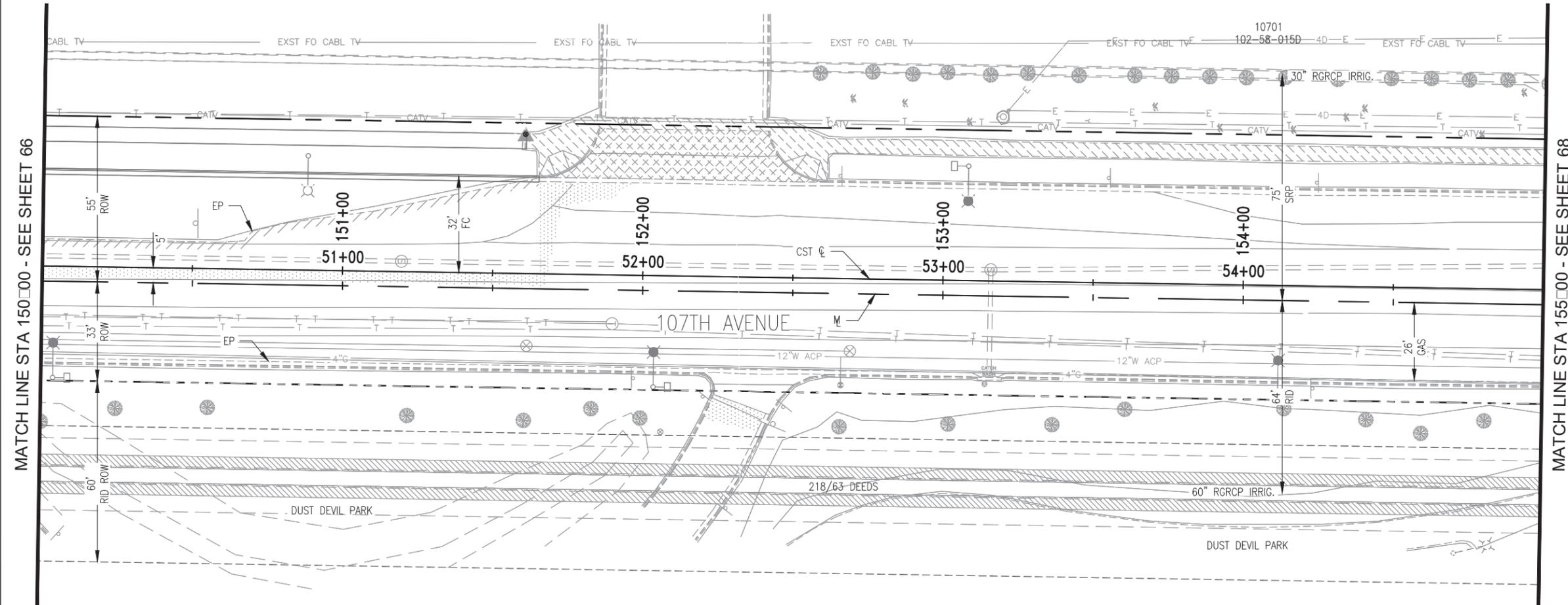


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	67	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



MATCH LINE STA 150+00 - SEE SHEET 66

MATCH LINE STA 155+00 - SEE SHEET 68

NO IRRIGATION IMPROVEMENTS
THIS SHEET

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN
CITY OF PHOENIX ARIZONA
 STREET TRANSPORTATION DEPARTMENT

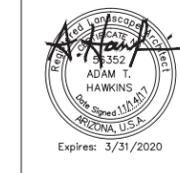
107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161



DR: KW	DES: KW	CK: JE	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	67	72
SCALE: 1" = 20' NTS				

ST87100161, 11/14/17

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK

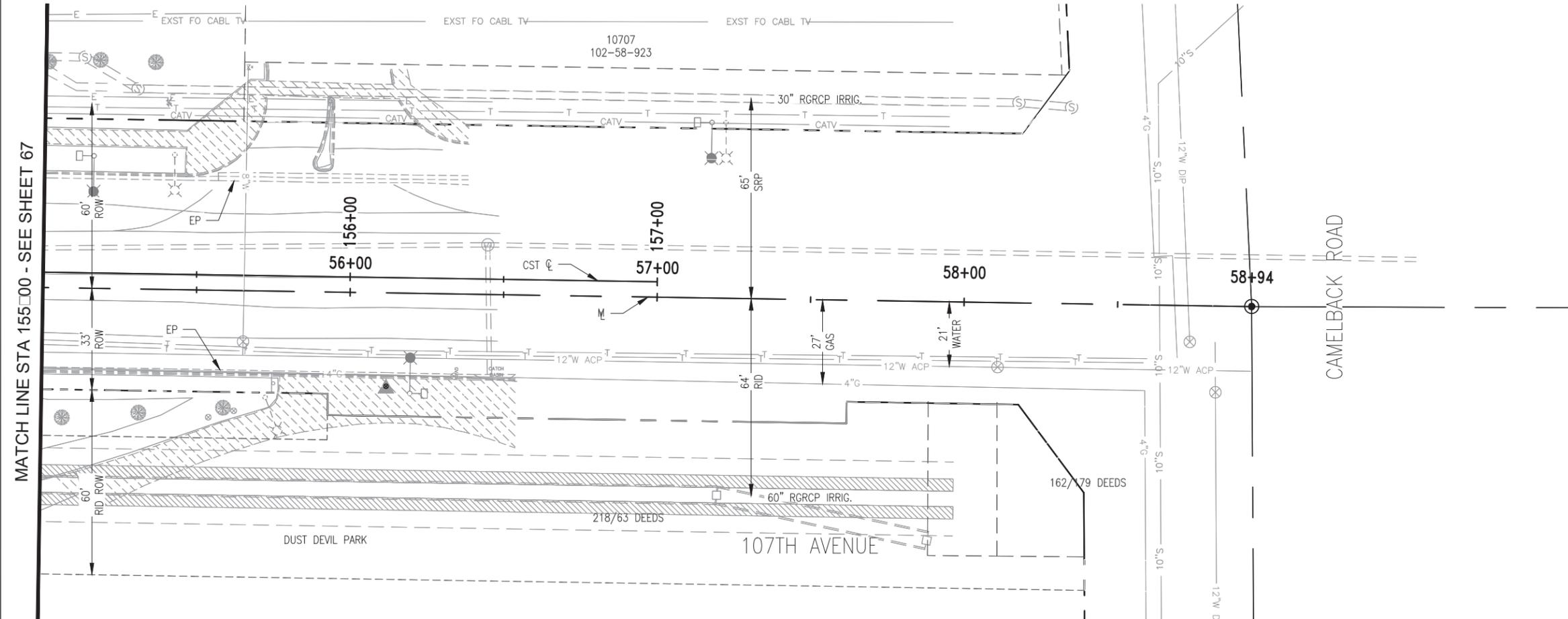


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161	68	72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



MATCH LINE STA 155+00 - SEE SHEET 67

NO IRRIGATION IMPROVEMENTS
THIS SHEET

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN
CITY OF PHOENIX ARIZONA
 STREET TRANSPORTATION DEPARTMENT

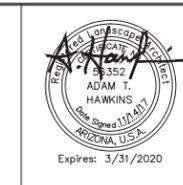
107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161



DR: KW	DES: KW	CK: JE	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	68	72
SCALE: 1" = 20' NTS				

ST87100161, 11/14/17

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK



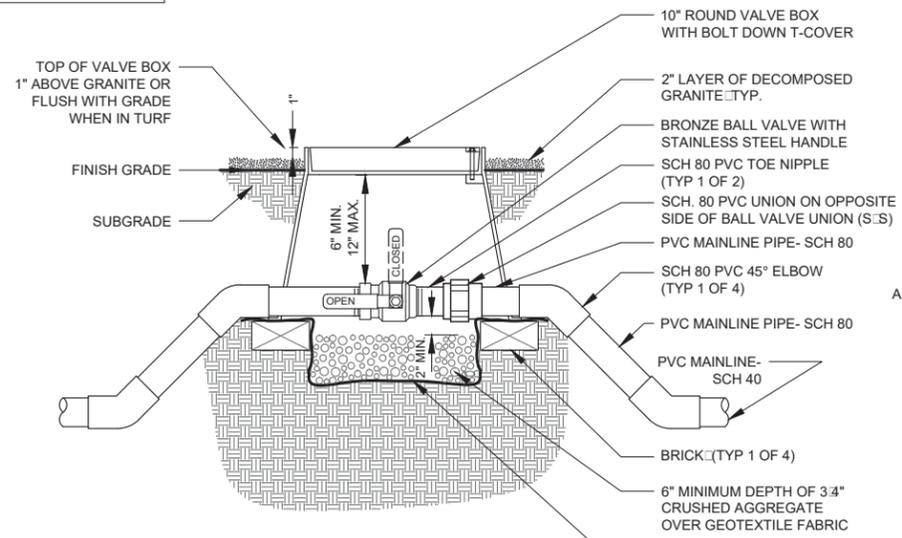
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161		72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

REVISION BY	DESCRIPTION	DATE

REVISION BY	DESCRIPTION	DATE

REVISION BY	DESCRIPTION	DATE

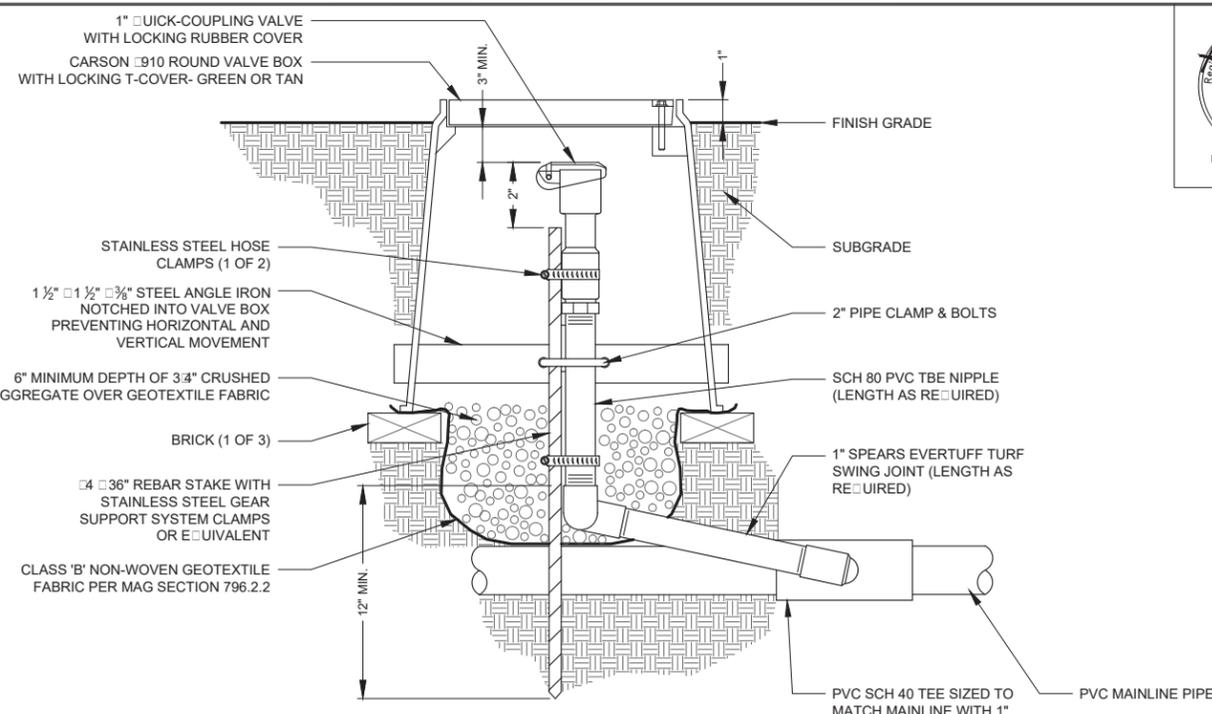
REVISION BY	DESCRIPTION	DATE



- NOTES:
- NOMINAL SIZE OF BALL VALVE TO MATCH NOMINAL SIZE OF MAINLINE PIPE.
 - VALVE BOX TO INCLUDE STAINLESS STEEL BOLT AND WASHER.
 - EMBOSS COVER WITH "B.V." IN 2-INCH HIGH STENCIL LETTERS USING HEAT-BRAND.
 - LOCATE VALVE WHERE HANDLE IS FULLY OPERATIONAL WITH NO OBSTRUCTIONS INCLUDING WHEN VALVE BOX LID IS IN PLACE.
 - USE WITH ALL MAINLINE PIPE 2 1/2" OR SMALLER.
 - ALL GEOTEXTILE FABRIC SHALL BE NON-WOVEN CLASS 'B' PER MAG SECTION 796.2.2.

1 ISOLATION BALL VALVE ASSEMBLY

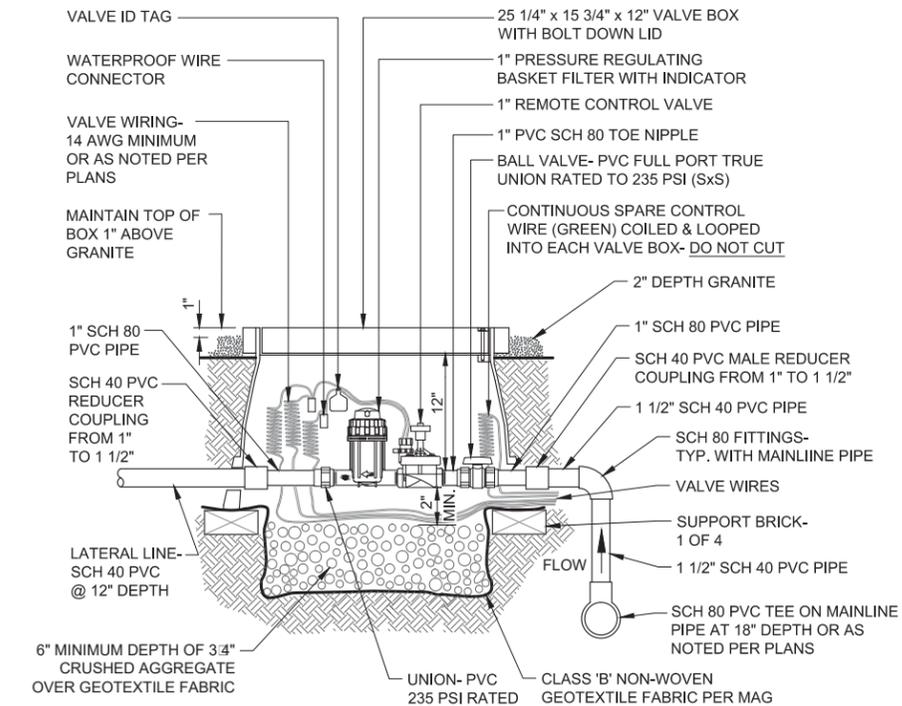
NTS



- NOTES:
- FURNISH FITTINGS AND PIPING SIZED TO MATCH QUICK COUPLING VALVE INLET SIZE.
 - PROVIDE CITY WITH TWO (2) VALVE KEYS HOSE SWIVELS & LOCKING RUBBER COVER KEYS.
 - VALVE BOX TO BE GREEN WHEN INSTALLED IN TURF OR TAN WHEN INSTALLED IN GRANITE.

2 QUICK COUPLER ASSEMBLY

NTS



- NOTES:
- INSTALL 40 PSI PRESSURE REGULATING FILTER WITH DEBRIS INDICATOR- 200 MESH SCREEN.
 - PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION AND WITH SPARE WIRE IN VALVE BOX. (WRAP AROUND 1/2" PIPE 15 TIMES).
 - EMBOSS COVER OF REMOTE CONTROL VALVE BOX WITH 2" NUMBERS OF THE CONTROLLER LETTER - VALVE STATION # - TYPE (IE: A-1-S).
 - FOR MAINLINE PIPE SIZES 4" AND LARGER, INSTALL DEEP BELL DUCTILE IRON GASKET SERVICE TEE FOR MAINLINE CONNECTIONS.
 - VALVE BOX & COVER TO BE TAN COLOR.

3 DRIP REMOTE CONTROL VALVE ASSEMBLY

NTS

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

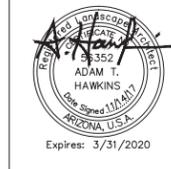
IRRIGATION DETAILS				
CITY OF PHOENIX ARIZONA STREET TRANSPORTATION DEPARTMENT				
107TH AVENUE INDIAN SCHOOL TO CAMELBACK ST87100161				
DR: KW	DES: KW	CK: JE	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	70	72
SCALE: 1" = 20' NTS				



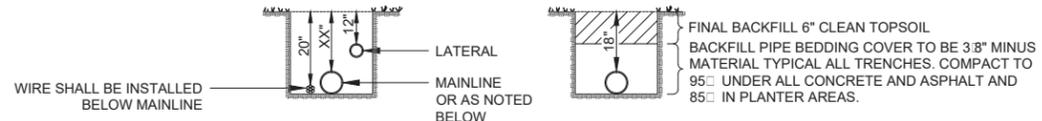
ST87100161, 11/14/17

107TH AVENUE
PHOENIX STREET - MARICOPA CO.
INDIAN SCHOOL TO CAMELBACK

MAIN SUPPLY LATERAL AND WIRING MAIN SUPPLY

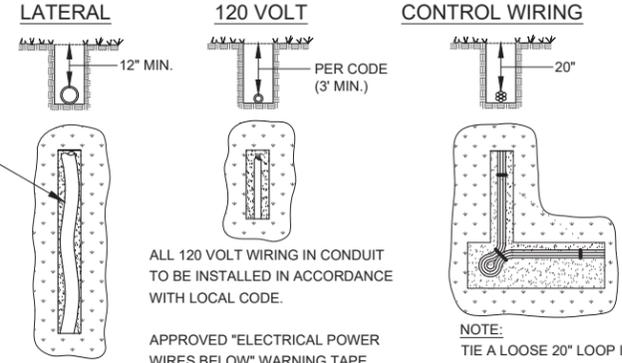


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87100161		72
STANLEY CONSULTANTS INC. CONSULTING ENGINEER				
DES: AH	DR: EM	CK: JE	DATE: 11/17	

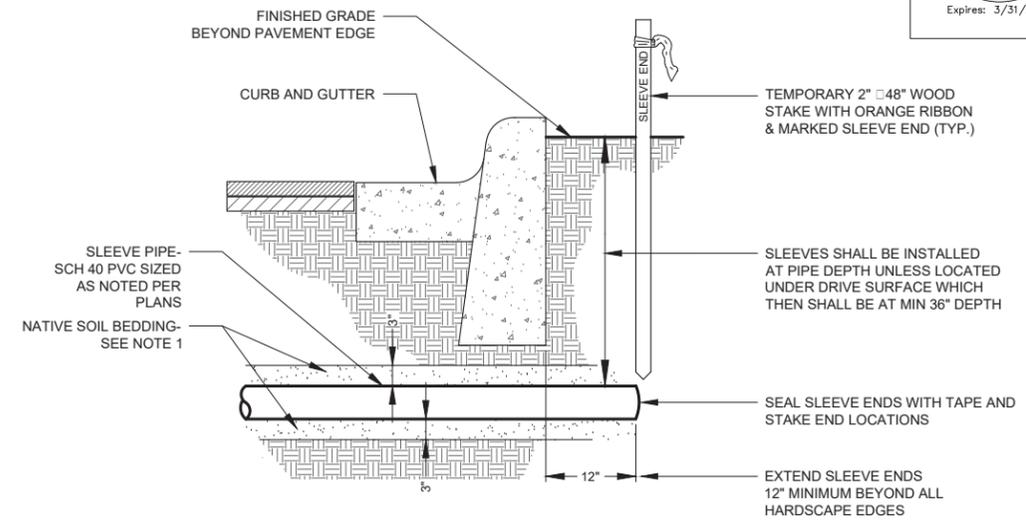


NOTE:
TAPE AND BUNDLE WIRING AT 10' INTERVALS.
SPliced WIRES TO BE IN 10" ROUND SPLICE PIT BOXES.

NOTE:
MAINLINE DEPTHS:
3'-4" - 2 1/2" x 18" DEEP
3" - 4" x 24" DEEP
6" - 8" x 36" DEEP



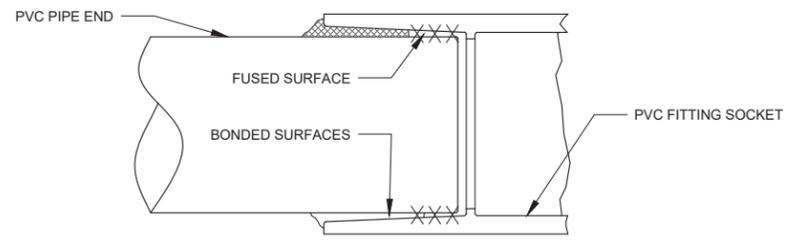
NOTES:
1. NO TRENCH TO BE CLOSER THAN 18" TO CONCRETE SIDEWALK, CURBS, ELECTRIC POLES, BOXES, ELECTRIC CABINETS, STREET SIGNALS, SIGNS, ETC.
2. WHEN MULTIPLE MAIN OR LATERAL LINES RUN IN THE SAME TRENCH MAINTAIN 3" HORIZONTAL CLEARANCE BETWEEN PIPES.



NOTES:
1. BACKFILL TRENCH WITH NATIVE SOIL BEDDING 3" UNDER SLEEVE AND 3" ABOVE SLEEVE. BEDDING MATERIAL SHALL NOT HAVE ANY ROCKS LARGER THAN 1 1/4" DIA.

1 TRENCHING DETAIL

NTS



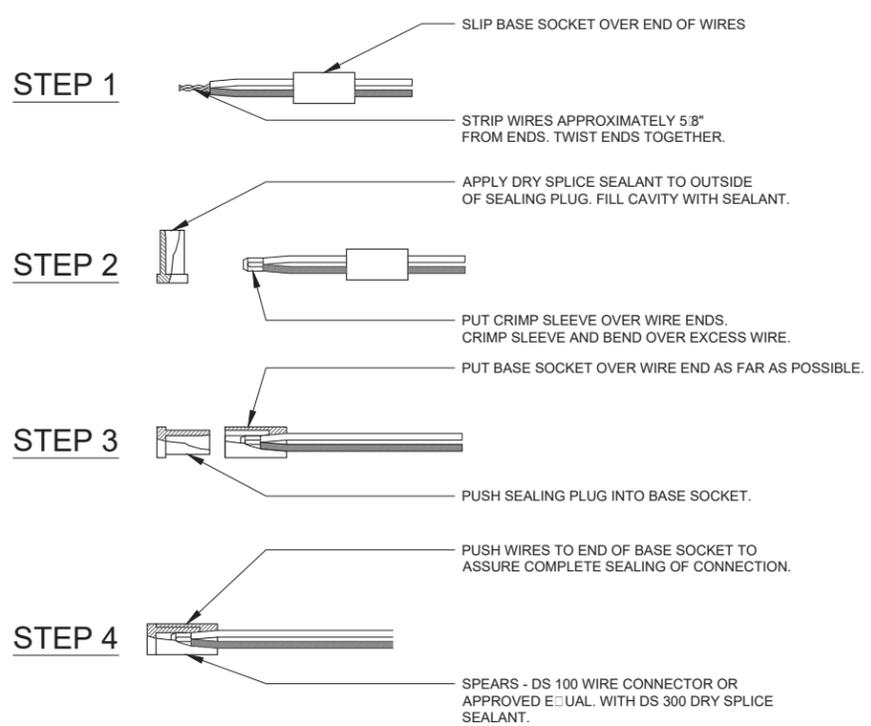
NOTES:
1. SOLVENT WELDED JOINTS SHALL BE MADE IN ACCORDANCE TO ASTM D-2855 AND TYPE OF SOLVENT AND PRIMER RECOMMENDED BY PIPE MANUFACTURER SHALL BE USED.
2. APPLICATOR DAUBER SHALL BE 1/2 THE DIAMETER OF THE PIPE BEING JOINED. 2" PIPE x 1" DAUBER.
3. FOLLOW THE FOLLOWING SEQUENCE OF APPLYING PRIMER AND CEMENT:
A. PRIME BOTH PIPE AND FITTING SOCKET TO BE JOINED.
B. IMMEDIATELY APPLY A COAT OF CEMENT TO THE PIPE END.
C. APPLY A LIGHT COAT OF CEMENT TO THE FITTING SOCKET.
D. ADD A SECOND COAT OF CEMENT TO THE PIPE.
E. PUNCH THE PARTS TOGETHER, ROTATING ONE-EIGHTH TO ONE-QUARTER TURN AND HOLD FOR 15 TO 30 SECONDS.
4. THE CONTRACTOR SUPERINTENDANT SHALL CONDUCT A FIELD CLASS INSTRUCTING HIS EMPLOYEES ON THE PROPER METHOD SOLVENT WELDING PIPE. THE SEMINAR SHALL BE HELD ON SITE. THE CITY'S REPRESENTATIVE SHALL BE INVITED TO ATTEND.

3 SOLVENT WELDED PVC JOINTS

NTS

2 SLEEVE INSTALLATION

NTS



NOTES: FOR WIRE SIZES NO. 14, NO. 12 AND NO. 10.

4 WIRE SPLICE DETAIL

NTS

"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 CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION DETAILS
CITY OF PHOENIX ARIZONA
STREET TRANSPORTATION DEPARTMENT

107TH AVENUE
INDIAN SCHOOL TO CAMELBACK
ST87100161



DR: KW	DES: KW	CK: JE	SHEET NO:	TOTAL SHEETS
DATE: 11/17	DATE: 11/17	DATE: 11/17	72	72
SCALE: 1" = 20' NTS				

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

ST87100161, 11/14/17



CUS STLT 107TH AVE:
 INDIAN SCHOOL RD. TO CAMELBACK RD.
 COVER SHEET
 C.O.P. JOB # ST1330
 SRP JOB# T2188456

PROJECT NOTES
 SRP ELECTRIC SERVICE SPECIFICATIONS ARE AVAILABLE ON-LINE AT:
 HTTP://WWW.SRPNET.COM/ELECTRIC/BUSINESS/SPECS

CONDUIT ONE-LINE LEGEND

- PROPOSED 3 PH RISER
- EXISTING 1 PH TRANSFORMER
- EXISTING 3 PH RISER
- EXISTING J-BOX
- SPLICE POINT
- DOUBLE SLASH LINES INDICATE REMOVAL
- WORK ACTIVITY POINT

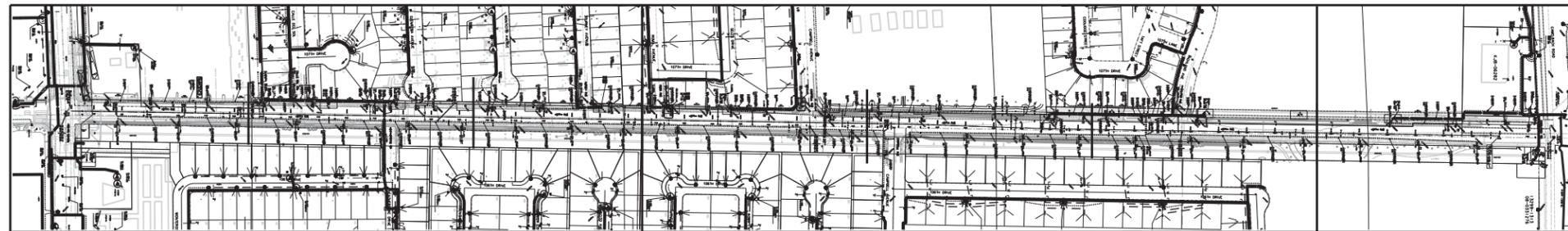
MAINLINE LEGEND

- BAR INDICATES FRONT OF DEVICE
- PROPOSED PULL BOX
- PROPOSED RISER
- SPLICE POINT
- EXISTING MANHOLE
- EXISTING PAD MOUNTED SWITCH
- EXISTING MANHOLE
- EXISTING UG TRANSFORMER
- EXISTING RISER
- PROPOSED FLUSH J-BOX
- EXISTING FLUSH J-BOX
- EXISTING CUSTOMER STREET LIGHT
- PROPOSED CUSTOMER STREET LIGHT
- EXISTING WOOD DISTRIBUTION POLE
- EXISTING WOOD TRANSMISSION POLE
- EXISTING STEEL TRANSMISSION POLE
- DOUBLE SLASH LINES INDICATE REMOVAL
- WORK ACTIVITY POINT
- PROPOSED PRIMARY TRENCH ROUTE
- EXISTING PRIMARY TRENCH ROUTE
- SECONDARY CONDUCTOR
- STREET LIGHT CONDUCTOR
- SERVICE CONDUCTOR
- CONDUIT
- CENTER LINE
- PROPERTY LINE

SHEET 3

SHEET 4

SHEET 5



N. 107TH AVENUE -1E-

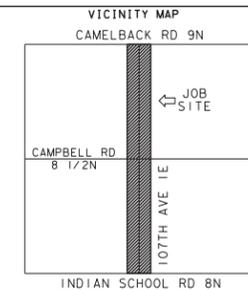
W. INDIAN SCHOOL ROAD -8N-

W. CAMPBELL AVE. -8 1/2N-

W. CAMELBACK ROAD -9N-

SHEET INDEX:

- SHEET 1: COVER SHEET
- SHEET 2: CONDUIT ONE LINE
- SHEET 3-5: MAINLINE



FIELD INSTALLATION STAMP

SURVEY AND PERMIT INFORMATION

- SRP SURVEY TO STAKE FOR LOCATION AND TIE FOR EASEMENTS. CUSTOMER CONTROL POINTS REQUIRED: YES NO
- CUSTOMER'S SURVEY TO STAKE FOR LOCATION/CONSTRUCTION AND TIE FOR EASEMENTS. CUSTOMER'S SURVEYOR MUST ATTEND PRE-CON MEETING.
- SRP SURVEY TO STAKE FOR LOCATION, NO EASEMENT REQUIRED.
- 3RD PARTY EASEMENT REQUIRED.
- NO SURVEY REQUIRED.
- PERMIT REQUIRED: CITY OF PHOENIX COUNTY _____ OTHER _____ PERMIT NO. _____
- NO PERMIT REQ.

REV	REVISED BY	DATE	REVISION DESCRIPTION
	JXGRAY	5/24/17	JOB CREATED.

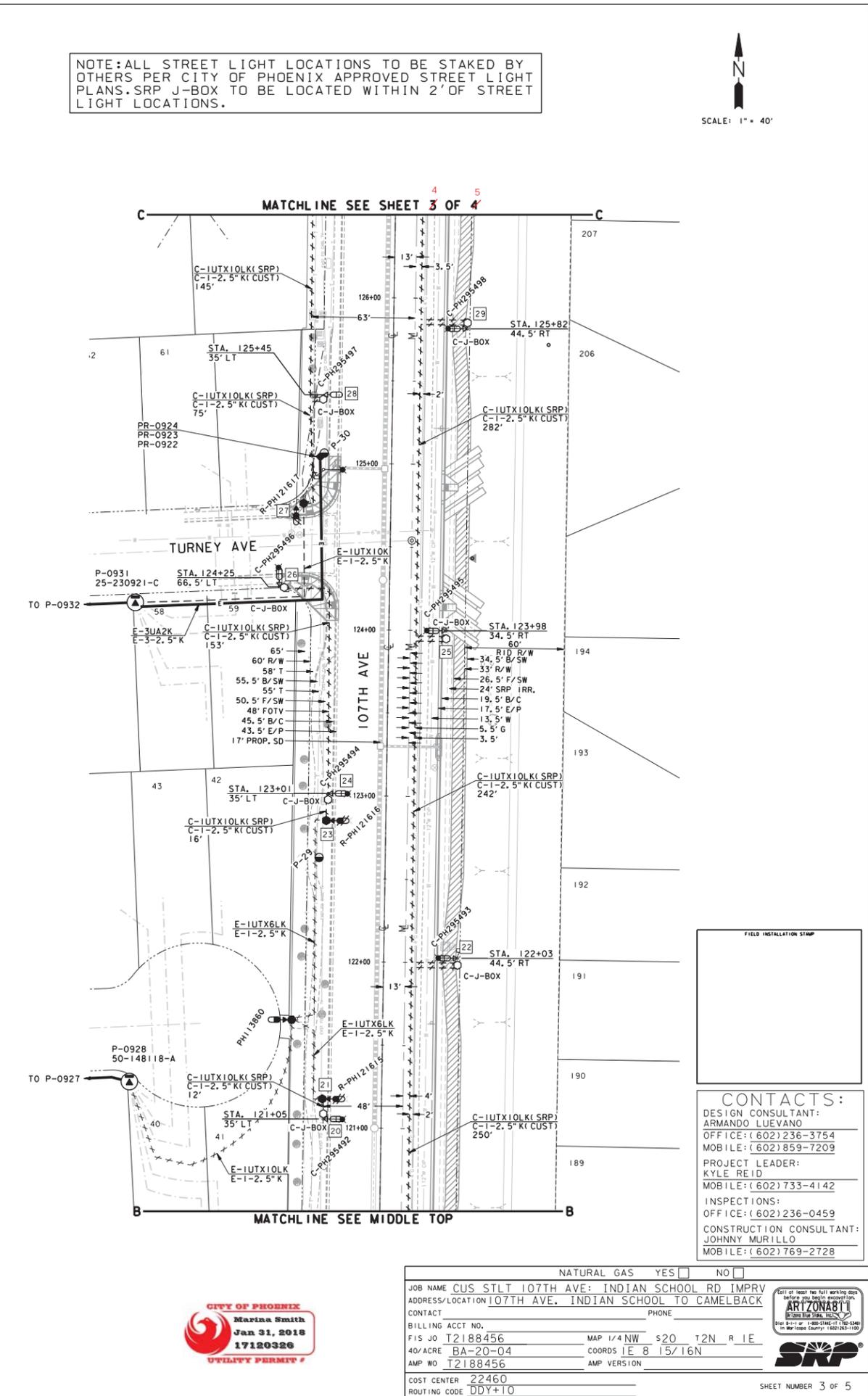
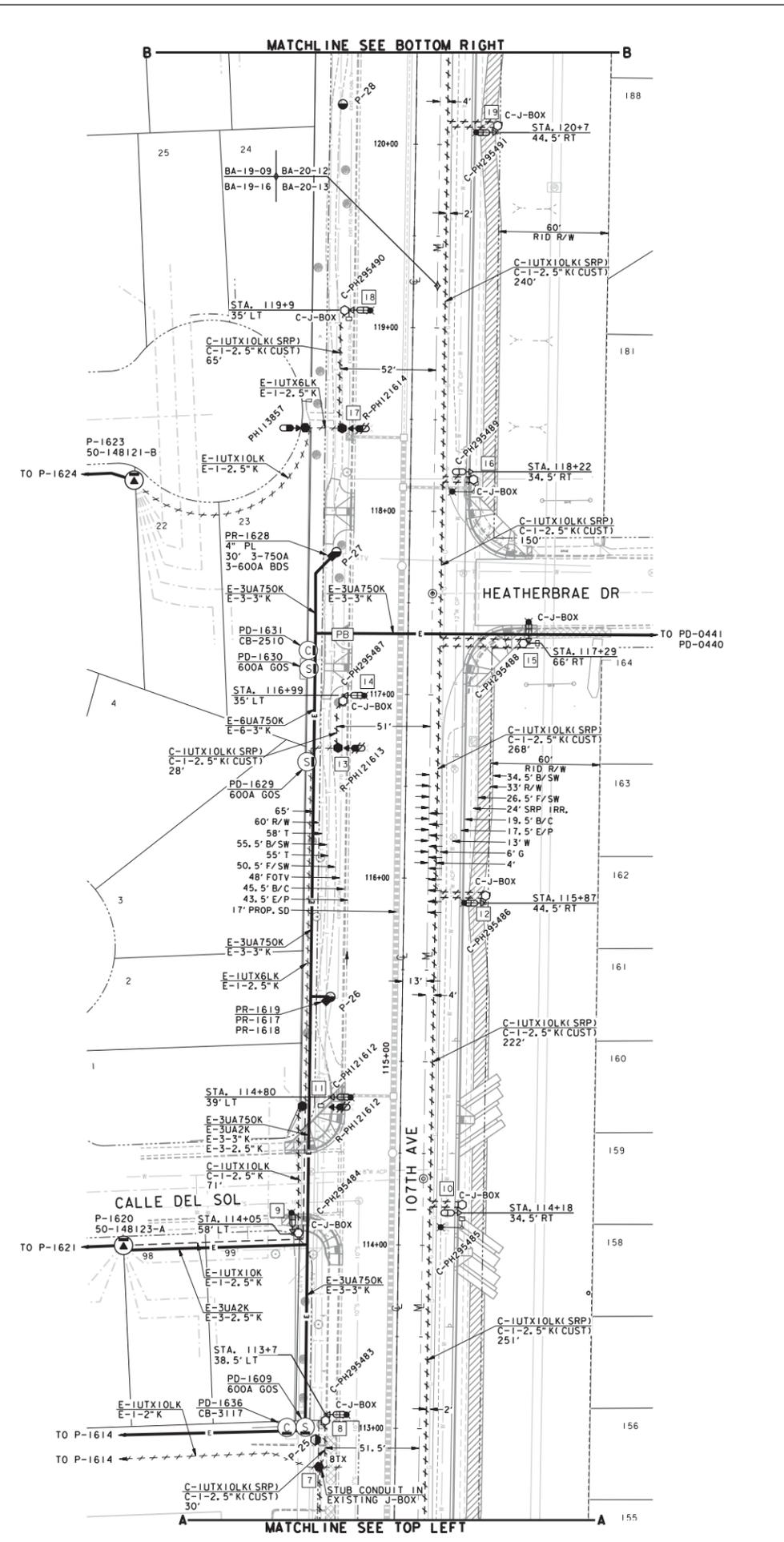
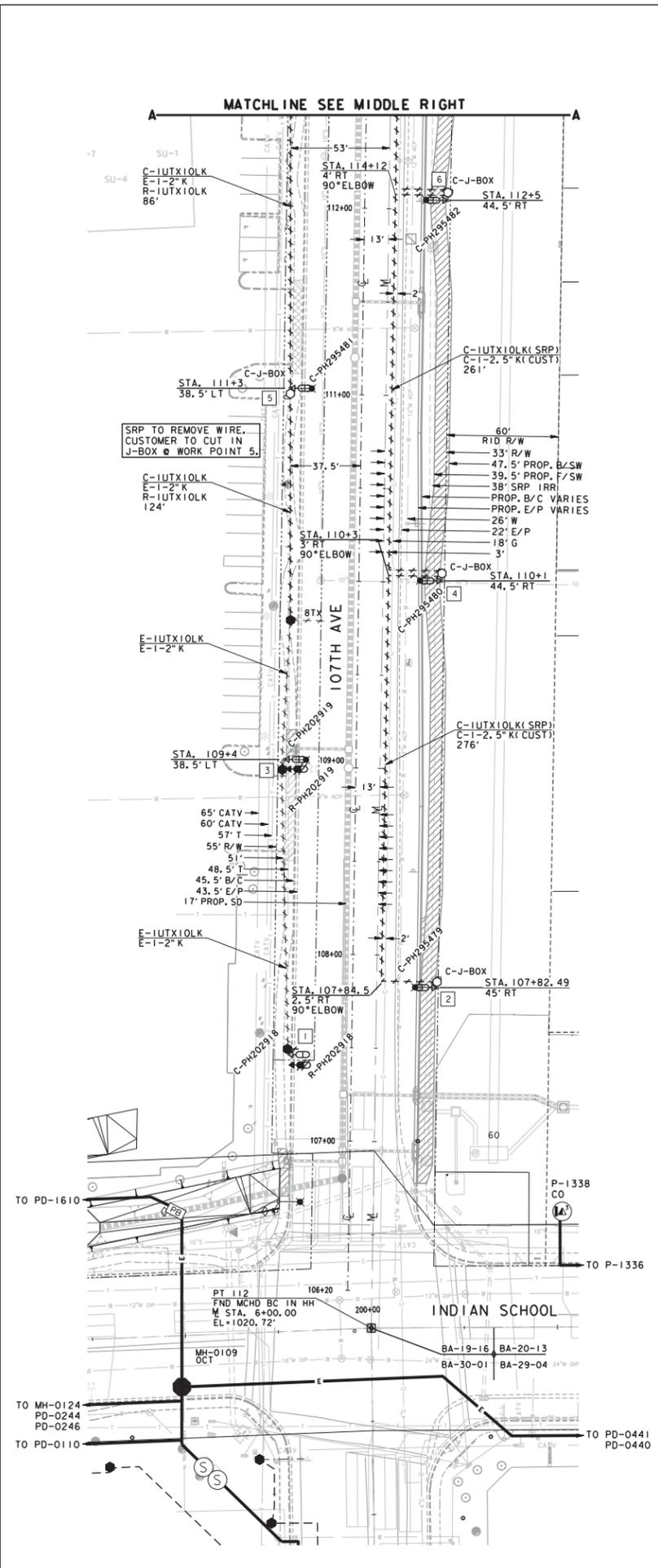
CONTACTS:
 DESIGN CONSULTANT: ARMANDO LUEVANO
 OFFICE: (602) 236-3754
 MOBILE: (602) 859-7209
 PROJECT LEADER: BRUCE SOUDER
 MOBILE: (602) 809-1511
 INSPECTIONS: OFFICE: (602) 236-0436
 CONSTRUCTION CONSULTANT: JOHNNY MURILLO
 MOBILE: (602) 769-2728

CONTRACT INFORMATION:
 JOB NAME CUS STLT 107TH AVE: INDIAN SCHOOL RD IMPRV
 ADDRESS/LOCATION 107TH AVE. INDIAN SCHOOL TO CAMELBACK
 CONTACT HUGH ALTER PHONE 602-534-7052
 BILLING ACCT NO. _____
 FIS JO T2188456 MAP 1/4 NW S20 T2N R1E
 40/ACRE BA-20-04 COORDS 1E 8-15/16N
 AMP NO T2188456 AMP VERSION _____
 COST CENTER 22460
 ROUTING CODE DDY+10

NOTE: CUSTOMER TO PROVIDE TENCH, CONDUIT, J-BOXES, BLUE TOP AT THE EQUIPMENT LOCATIONS AND THE STAKING OF THE STREET LIGHT LOCATIONS.

NOTE: ALL STREET LIGHT LOCATIONS TO BE STAKED BY CONTRACTOR PER CITY OF PHOENIX APPROVED STREET LIGHT PLANS. SRP J-BOX TO BE LOCATED WITHIN 2' OF STREET LIGHT LOCATIONS.





NOTE: ALL STREET LIGHT LOCATIONS TO BE STAKED BY OTHERS PER CITY OF PHOENIX APPROVED STREET LIGHT PLANS. SRP J-BOX TO BE LOCATED WITHIN 2' OF STREET LIGHT LOCATIONS.

SCALE: 1" = 40'

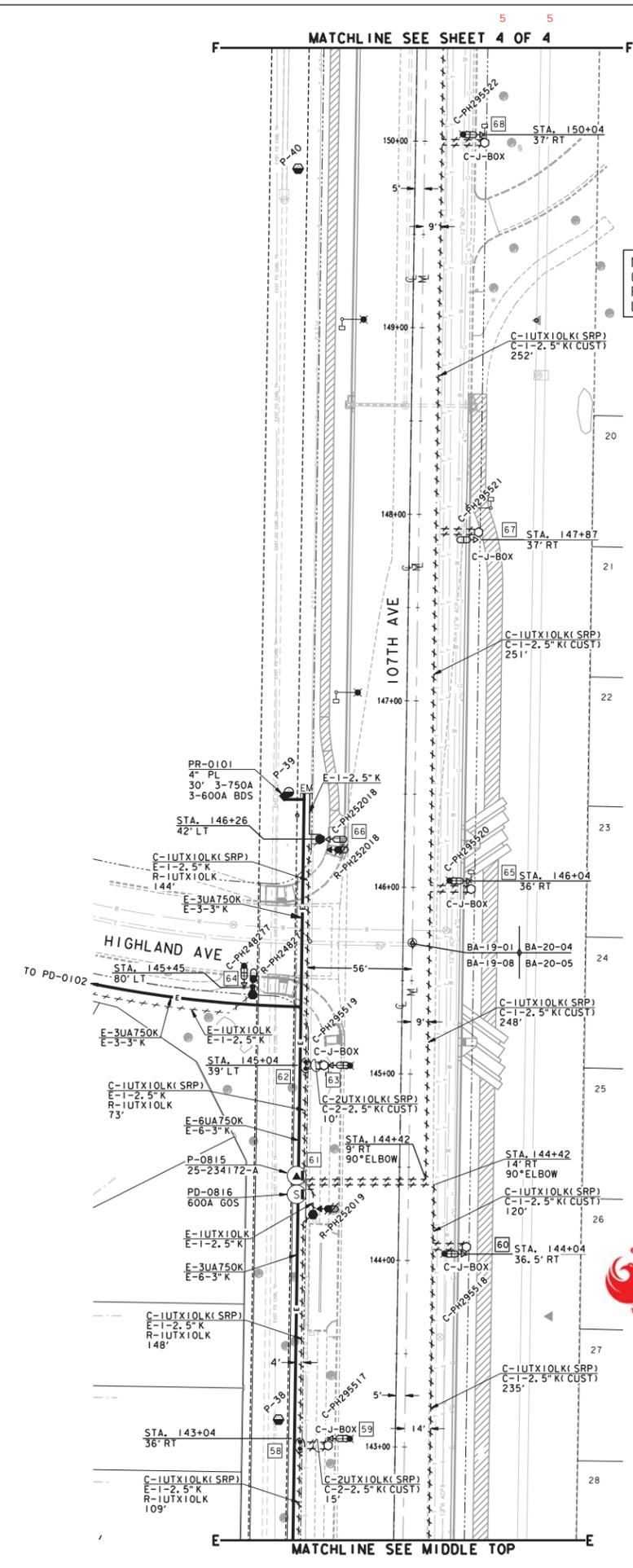
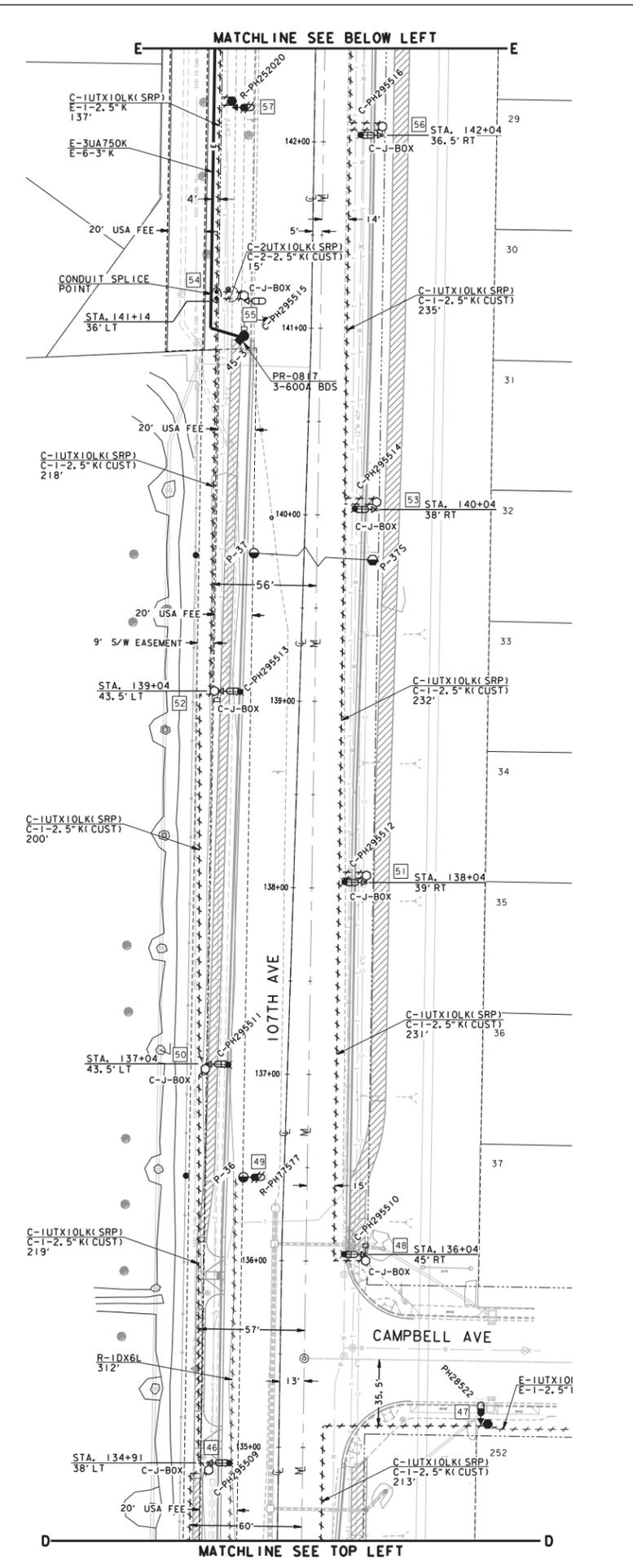
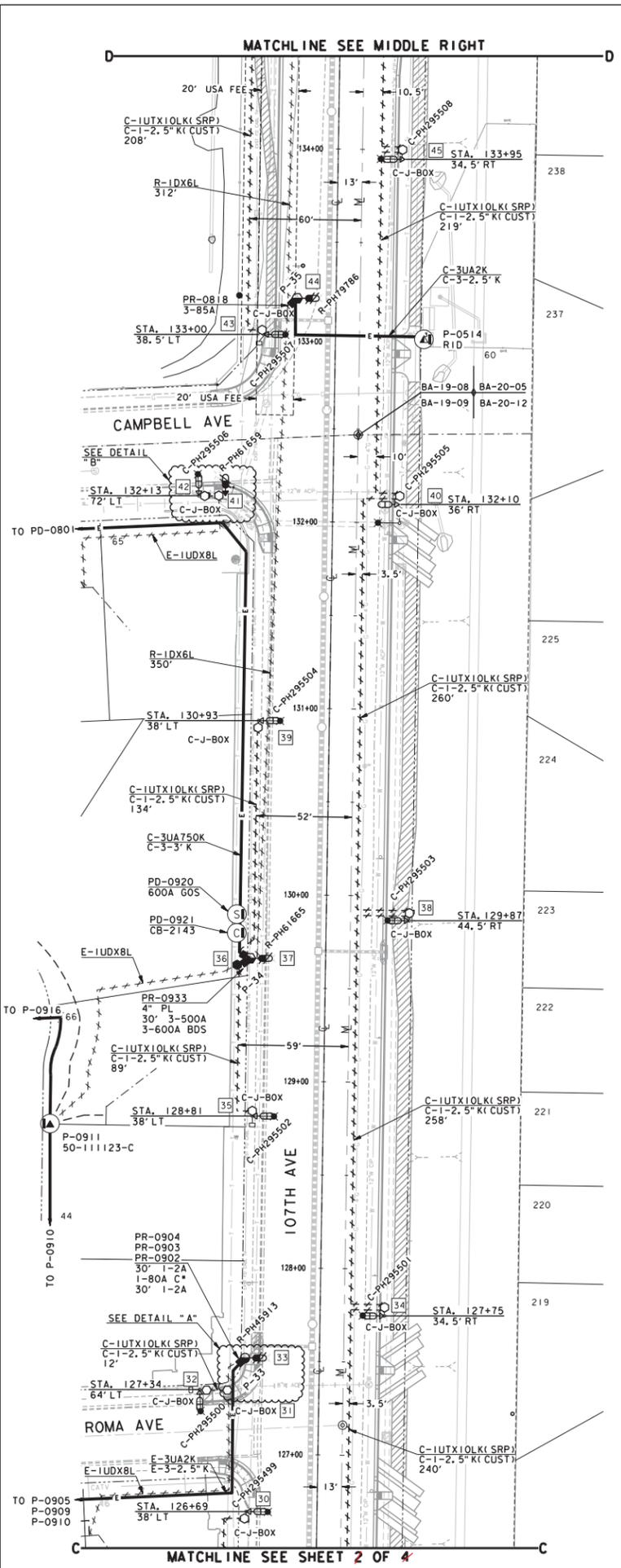
FIELD INSTALLATION STAMP

CONTACTS:
 DESIGN CONSULTANT:
 ARMANDO LUEVANO
 OFFICE: (602) 236-3754
 MOBILE: (602) 859-7209
 PROJECT LEADER:
 KYLE REID
 MOBILE: (602) 733-4142
 INSPECTIONS:
 OFFICE: (602) 236-0459
 CONSTRUCTION CONSULTANT:
 JOHNNY MURILLO
 MOBILE: (602) 769-2728

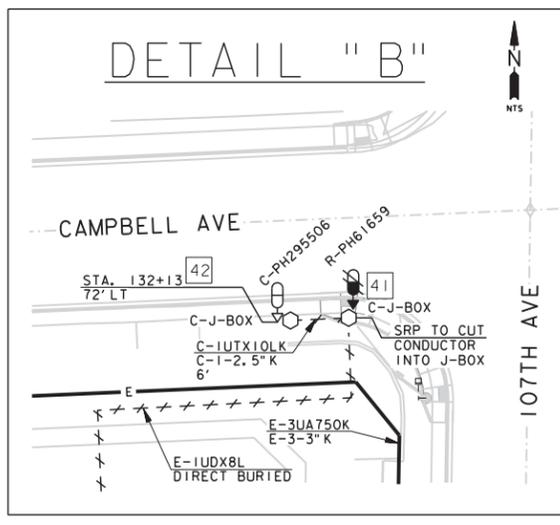
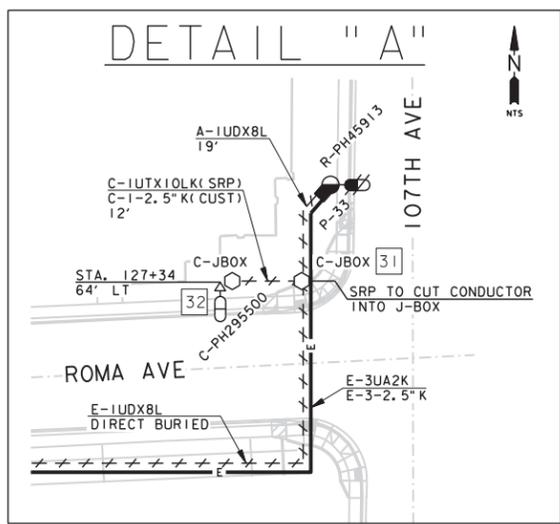


NATURAL GAS YES <input type="checkbox"/> NO <input type="checkbox"/>	
JOB NAME CUS STLT I07TH AVE: INDIAN SCHOOL RD IMPRV	
ADDRESS/LOCATION I07TH AVE. INDIAN SCHOOL TO CAMELBACK	
CONTACT	PHONE
BILLING ACCT NO.	
FIS JO T2188456	MAP 1/4 NW S20 T2N R 1E
40+ACRE BA-20-04	COORDS IE B 15/16N
AMP NO T2188456	AMP VERSION
COST CENTER 22460	
ROUTING CODE DDY+10	





NOTE: ALL STREET LIGHT LOCATIONS TO BE STAKED BY OTHERS PER CITY OF PHOENIX APPROVED STREET LIGHT PLANS. SRP J-BOX TO BE LOCATED WITHIN 2' OF STREET LIGHT LOCATIONS.



CONTACTS:
DESIGN CONSULTANT:
ARMANDO LUEVANO
OFFICE: (602) 236-3754
MOBILE: (602) 859-7209
PROJECT LEADER:
KYLE REID
MOBILE: (602) 733-4142
INSPECTIONS:
OFFICE: (602) 236-0459
CONSTRUCTION CONSULTANT:
JOHNNY MURILLO
MOBILE: (602) 769-2728

NATURAL GAS YES NO

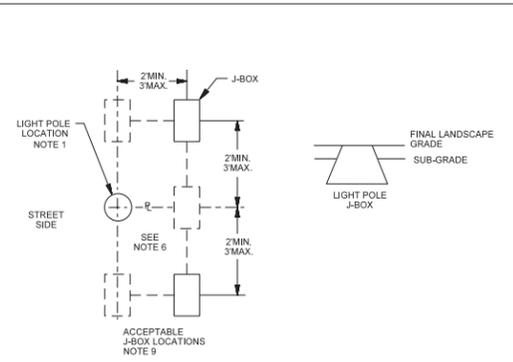
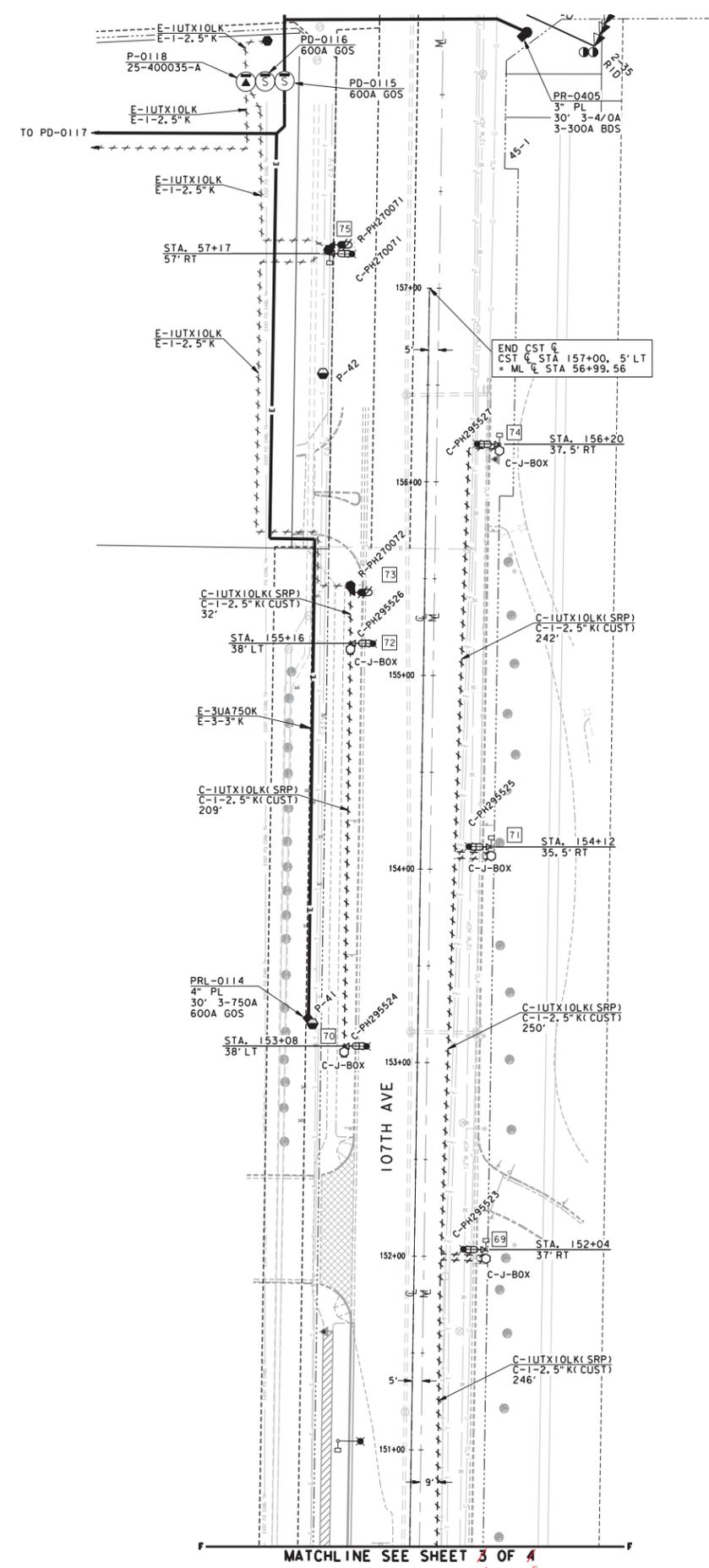
JOB NAME CUS STLT 107TH AVE: INDIAN SCHOOL RD IMPRV
ADDRESS/LOCATION 107TH AVE. INDIAN SCHOOL TO CAMELBACK
CONTACT _____ PHONE _____
BILLING ACCT NO. _____
FIS JO T2188456 MAP 1/4 NW S20 T2N R 1E
40/ACRE BA-20-04 COORDS 1E B 15/16N
AMP NO T2188456 AMP VERSION _____
COST CENTER 22460
ROUTING CODE DDY+10

ARTIZONATI
Digital Print of P-880-01 (REV 11/16) (S&S) (In Reference to: 1400-110)

SRP

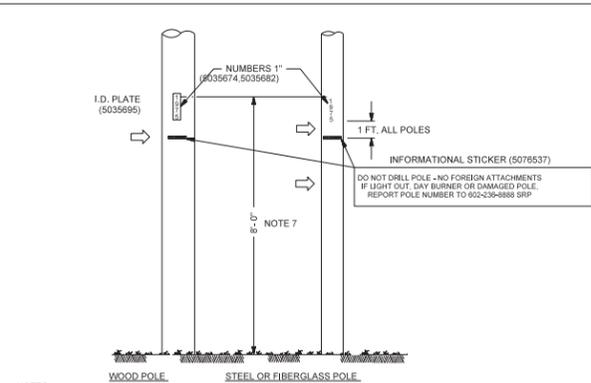
SHEET NUMBER 4 OF 5

NOTE: ALL STREET LIGHT LOCATIONS TO BE STAKED BY OTHERS PER CITY OF PHOENIX APPROVED STREET LIGHT PLANS. SRP J-BOX TO BE LOCATED WITHIN 2' OF STREET LIGHT LOCATIONS.



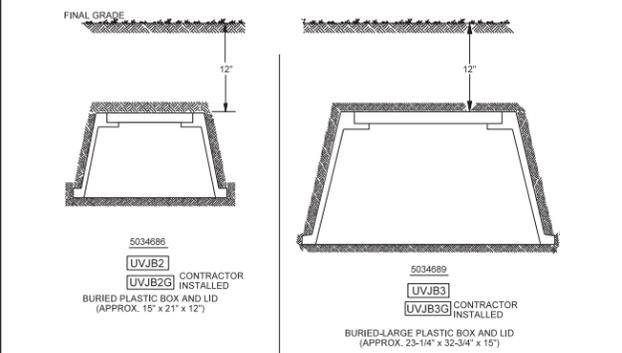
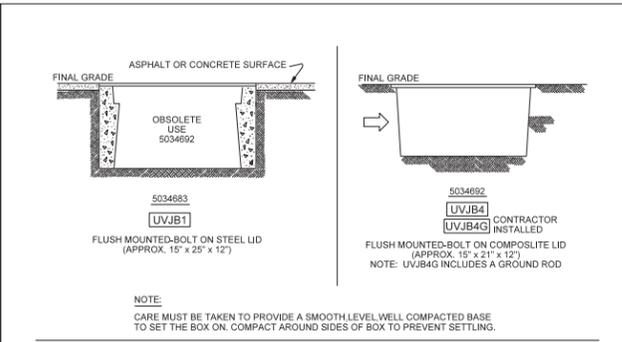
- NOTES:
- CUSTOMER TO STAKE LIGHT LOCATION PER APPROVED MUNICIPAL PLAN.
 - GRADE STAKE TO BE WITHIN 2 FEET OF J-BOX LOCATION. CUSTOMER TO STAKE J-BOX LOCATION. AVOID CONFLICT WITH SIDEWALK, LANDSCAPING, ETC.
 - GROUND ROD TO BE INSTALLED FOR EACH STREET LIGHT LOCATION PER STANDARDS ON PAGE 9-1-1.
 - SEE SONOTUBE INSTALLATION DETAIL, PAGE 9-1-1, IF APPLICABLE.
 - #6 BARE COPPER GROUND WIRE TO BE ATTACHED FROM GROUNDING LUG ON STREET LIGHT POLE TO GROUND ROD IN J-BOX.
 - J-BOX MAY BE POSITIONED BEHIND THE POLE, EXCEPT IN THE CITIES OF CHANDLER AND GILBERT.
 - IF POLE IS IN PROXIMITY OF METALLIC APPARATUS SEE CONSTRUCTION STANDARDS SECTION: LIGHT POLES IN PROXIMITY OF METALLIC APPARATUS, BONDING, ALSO SEE SECTION 5 "ELECTRIC SERVICE REQUIREMENTS NOTE 6".
 - FOR PEDESTAL MOUNTED POLES THE J-BOX IS LOCATED ABOVE THE WATER LINE. SEE POLE PLACEMENT, WATER RETENTION BASIN.
 - SOME CLEARANCE RESTRICTIONS APPLY TO J-BOX LOCATIONS NEAR TRANSFORMERS, SEE DESIGN AND MISCELLANEOUS, CLEAR AREA FOR CUSTOMER EQUIPMENT, ADJACENT TO TRANSFORMER.

Outdoor Lighting Standards	REV. CHANGED NOTE 8 & 9.	DESIGN AND MISCELLANEOUS STREETLIGHT POLE J-BOX LOCATION DETAILS	ISSUE DATE: 11/19/01 REV. DATE: 09/17/13 APPROVAL: W.LARAME
		3-11-1	8518E90.DGN

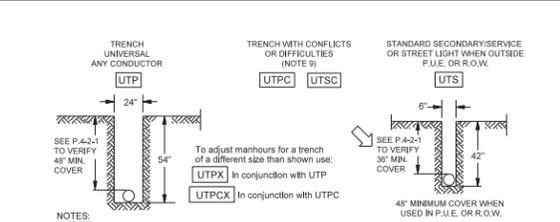


- NOTES:
- ALL UN-METERED LOADS, LIGHTS SERVED BY SRP WILL BE NUMBERED. THE NUMBER IS ASSIGNED BY SRP FOR CUSTOMER OWNED LIGHTS FOR BILLING PURPOSES ONLY AND NOT FOR MATERIAL OR ACCOUNTING PURPOSES (DO NOT GRID A COMPATIBLE UNIT).
 - ON CUSTOMER OWNED LIGHTS THE NUMBER SHALL BE PLACED ON THE POLE BY THE CUSTOMER.
 - ON SRP OWNED LIGHTS THE NUMBER SHALL BE PLACED ON THE POLE BY SRP.
 - INSTALLING CREW IS TO NUMBER MUNICIPAL OR NON-MUNICIPAL POLES AT TIME OF INSTALLATION. MUNICIPAL OR NON-MUNICIPAL NUMBER WILL BE INDICATED ON THE WORK ORDER SKETCH.
 - MUNICIPAL LIGHT NUMBERS TO BE PLACED ON SIDE OF POLE FACING STREET. NON-MUNICIPAL NUMBER IS TO BE PLACED IN THE MOST VISIBLE LOCATION.
 - SURFACES TO WHICH NUMBERS AND STICKERS (5076537) ARE APPLIED MUST BE CLEAN AND FREE OF DIRT. USE CLEANER (5035504). NUMBERS AND STICKERS FOR WOOD POLES ARE TO BE APPLIED TO I.D. PLATE (5035695) WHICH IS THEN TO BE NAILED TO POLE. NUMBERS AND STICKERS FOR STEEL OR FIBERGLASS POLES ARE TO BE APPLIED DIRECTLY TO POLE.
 - NUMBERS WILL BE ATTACHED TO CUSTOMER OWNED STEEL OR FIBERGLASS POLES AND SRP WOOD POLES WHICH HAVE JOINT USE ATTACHMENT OF CITY LIGHTS. THE NUMBER TO BE INSTALLED IS SHOWN ON THE MEC ORDER OR JOB ORDER AND WILL HAVE THE FOLLOWING PREFIX:
CITY OF PHOENIX = PH-
CITY OF PEORIA = PE-
CITY OF GLENDALE = GL-
CITY OF CHANDLER = CH-
CITY OF GILBERT = GI-
CITY OF TEMPE = TE-
 - SRP OWNED STREETLIGHT POLE NUMBERS HAVE NO PREFIX LETTER. SRP NON-MUNICIPAL LIGHT POLE NUMBERS HAVE PREFIX LETTER "A".
 - PLACE NUMBER AT 8' ON DEDICATED LIGHT POLES (AS SHOWN) AND AT 12' ON SHARED POLES.

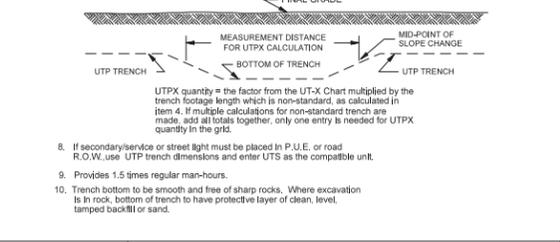
Outdoor Lighting Standards	REV. ADDED STICKER.	CONSTRUCTION STANDARDS LIGHT POLE NUMBERING AND INFORMATION STICKER	ISSUE DATE: 11/19/01 REV. DATE: 02/18/14 APPROVAL: W.LARAME
		6-13-1	8518E2.DGN



Underground Distribution Construction Standards	REV. REVISED UBVA JUNCTION BOX.	VAULTS, MANHOLES AND BOXES JUNCTION BOX INSTALLATION	ISSUE DATE: 01/15/07 REV. DATE: 05/09/16 APPROVAL: S.AEBBAH
		7-3-1	8518E2.DGN



- NOTES:
- Trench depths and conduit cover are to be measured from final grade stakes. All trench depths or conduit cover requirements specified on a job drawing shall be followed.
 - These trench codes provide man-hours for excavation only and do not provide for trench backfill.
 - The total trench footage length will be shown in the grid as standard trench, either UTP for primary or UTS for secondary, street light, or service. When trench is provided by customer, this is the only coding required on the job grid.
 - Non standard trench locations will be identified on the job order sketch with required width and depth dimensions given.
 - When trenching is provided by SRP, non standard trenches shall have 2 compatible unit codes in the grid. UTP plus the UTPX, to adjust the time for digging.
 - When specified depth cannot be obtained because of solid rock, a minimum earth cover of 24" is acceptable, provided a minimum 2" encasement of concrete surrounds the conduit.
 - Use example shown to figure length of UTPX trench, unless the entire trench is non standard.



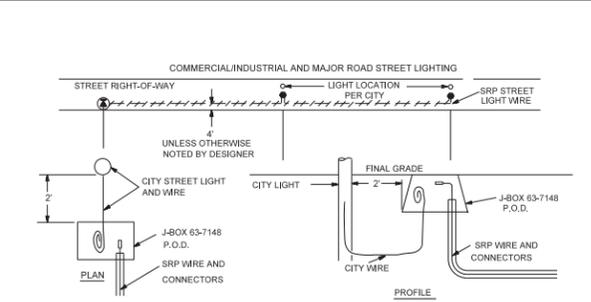
UTPX quantity = the factor from the UTX Chart multiplied by the trench footage length which is non-standard, as calculated in item 4. If multiple calculations for non-standard trench are made, add all totals together, only one entry is needed for UTPX quantity in the grid.

8. If secondary/service or street light must be placed in P.U.E. or road R.O.W. use UTP trench dimensions and enter UTS as the compatible unit.

9. Provides 1.5 times regular man-hours.

10. Trench bottom to be smooth and free of sharp rocks. Where excavation is in rock, bottom of trench to have protective layer of clean, level, tamped backfill or sand.

Underground Distribution Construction Standards	REV. CORRECTED TRENCH DEPTH TYP.	TRENCHING EXCAVATION CODES	ISSUE DATE: 01/05/07 REV. DATE: 03/06/13 APPROVAL: S.PRIEST
		6-11-1	8518E13.DGN



- NOTES:
- FOR CITY OWNED AND INSTALLED STREET LIGHTS TO BE SERVED BY SRP UNDERGROUND WIRE, THE POINT OF DELIVERY (P.O.D.) WILL BE AN SRP APPROVED JUNCTION BOX INSTALLED BY THE CITY. THE CITY IS TO PROVIDE THE LOCATION OF THE LIGHTS.
 - A 3 FT. PORTAL OF STREET LIGHT WIRE FROM THE CITY'S LIGHT POLE, VIA FLEXIBLE CONDUIT, IS TO BE INSERTED INTO THE JUNCTION BOX BY THE CITY. THE CITY MAY INCLUDE THEIR OWN IN-LINE FUSE IN THE JUNCTION BOX. SRP IS TO MAKE THE ELECTRICAL CONNECTION IN THE JUNCTION BOX (PHASE & NEUTRAL ONLY). (CHANDLER AND TEMPE HAVE AGREEMENTS TO CONNECT.)
 - THE CITY IS TO PROVIDE APPROPRIATE POLE GROUNDING IF METAL POLES ARE USED.

Outdoor Lighting Standards	REV. REMOVED NOTE 4 & TITLE CHANGE.	DESIGN AND MISCELLANEOUS CITY OWNED STREET LIGHTS POINT OF DELIVERY DETAIL	ISSUE DATE: 10/29/98 REV. DATE: 01/17/13 APPROVAL: W.LARAME
		3-8-1	8513E1.DGN



FIELD INSTALLATION STAMP

CONTACTS:

DESIGN CONSULTANT:
ARMANDO LUEVANO
OFFICE: (602) 236-3754
MOBILE: (602) 859-7209

PROJECT LEADER:
KYLE REID
MOBILE: (602) 733-4142

INSPECTIONS:
OFFICE: (602) 236-0459

CONSTRUCTION CONSULTANT:
JOHNNY JURILLO
MOBILE: (602) 769-2728

NATURAL GAS YES NO

JOB NAME CUS SILT 107TH AVE: INDIAN SCHOOL RD IMPRV
ADDRESS/LOCATION 107TH AVE. INDIAN SCHOOL TO CAMELBACK
CONTACT PHONE

BILLING ACCT NO. MAP 1/4 NW \$20 T2N R 1E
FIS JO T2188456 COORDS 1E B 15/16N
40/ACRE BA-20-04
AMP NO T2188456 AMP VERSION
COST CENTER 22460
ROUTING CODE DDY+10

ARTIZONA811
DIGIT 8-11 or 1-800-386-1111 (TOLL FREE)
IN SERVICE CENTER: 1-800-386-1111

SHEET NUMBER 5 of 5