

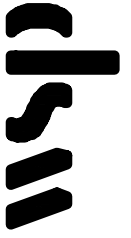
# CITY OF KINGMAN PUBLIC WORKS DEPARTMENT

## KINGMAN DOWNTOWN INFRASTRUCTURE

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WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100



MAYOR  
KEN WATKINS

VICE MAYOR  
CHERISH SAMMELI

CITY MANAGER  
RON FOGGIN

CITY COUNCIL

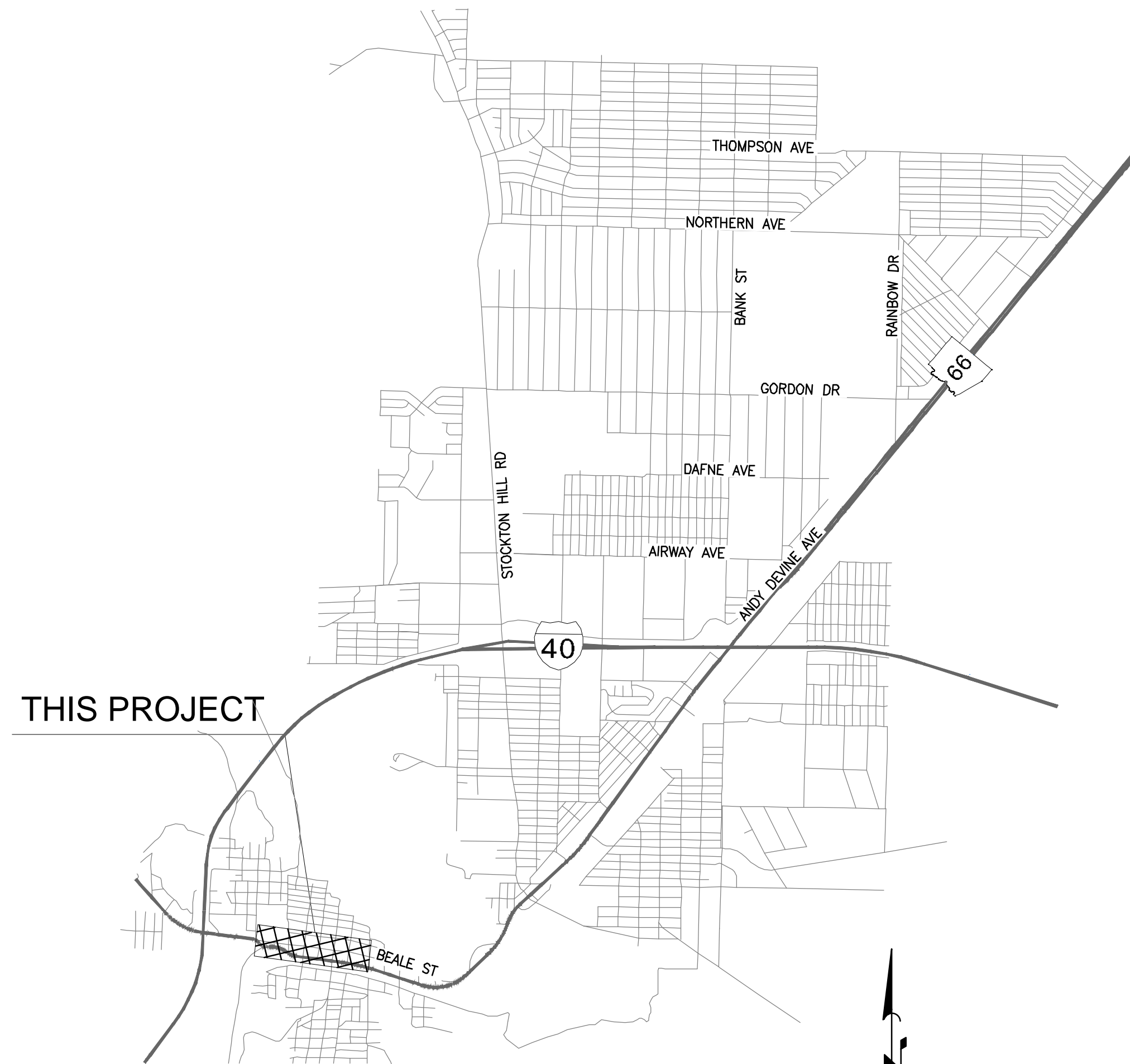
CAMERON PATT  
SHAWN SAVAGE  
JAMIE SCOTT STEHLY  
SMILEY WARD  
KEITH WALKER

PUBLIC WORKS DIRECTOR

ROB OWEN



2023



VICINITY MAP

NTS

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3	GN02	KEY MAP
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60	L3.0	LANDSCAPE DETAILS
61	L4.0	HARDSCAPE DETAILS
62-63	L5.0-L5.1	IRRIGATION DETAILS

### AS-BUILT 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 NUMBER \_\_\_\_\_

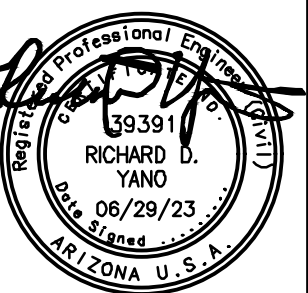
APPROVED FOR:  
THE CITY OF KINGMAN

CITY ENGINEER (OF DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

COVER SHEET

PROJECT:  
KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023

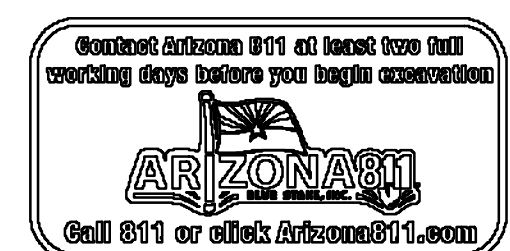


EXPIRES: 9/30/2024

PROJECT NO.  
3720205006

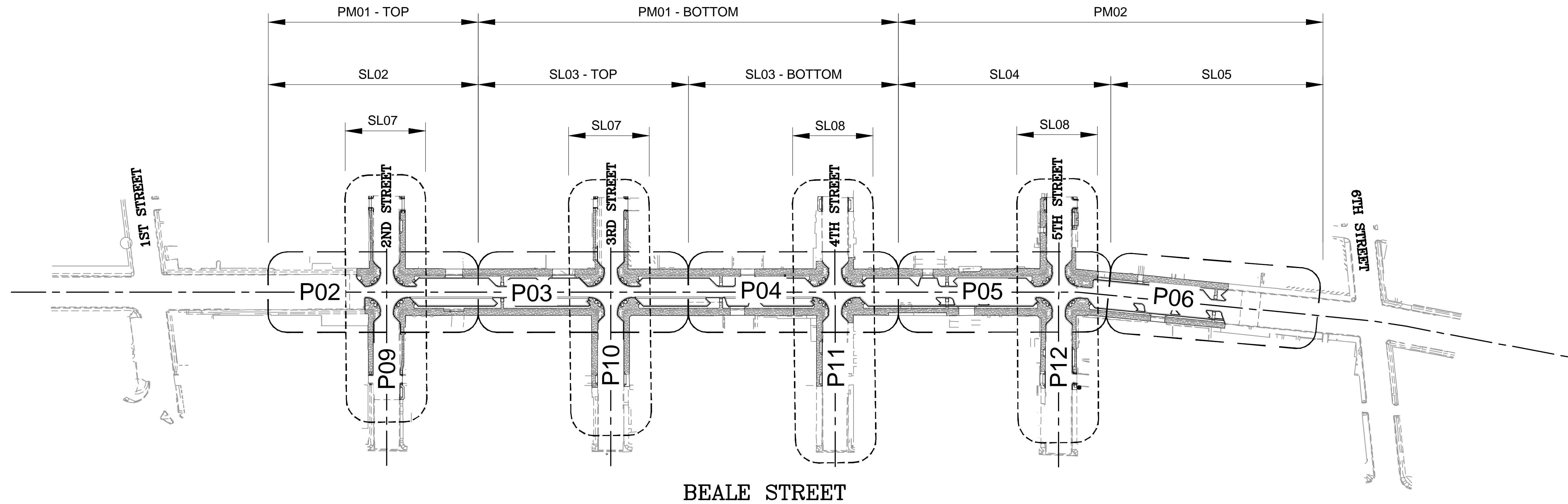
DRAWING NAME  
CS01

SHEET NO. 1 of 63



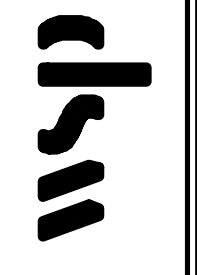


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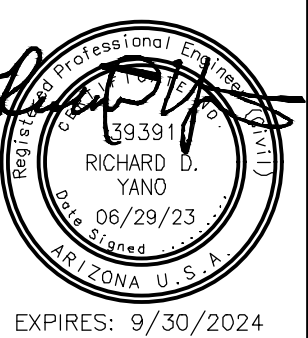
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 PHOENIX, ARIZONA 85034  
 PHONE: 602-733-6000  
 FAX: 602-733-6100



**KEY MAP**  
 PROJECT: KINGMAN DOWNTOWN INFRASTRUCTURE  
 BEALE ST - 1ST ST TO 6TH ST  
 KINGMAN, ARIZONA

DESIGNED BY: HMR  
 DRAWN BY: AA  
 CHECKED BY: DY  
 DATE: JUNE 2023



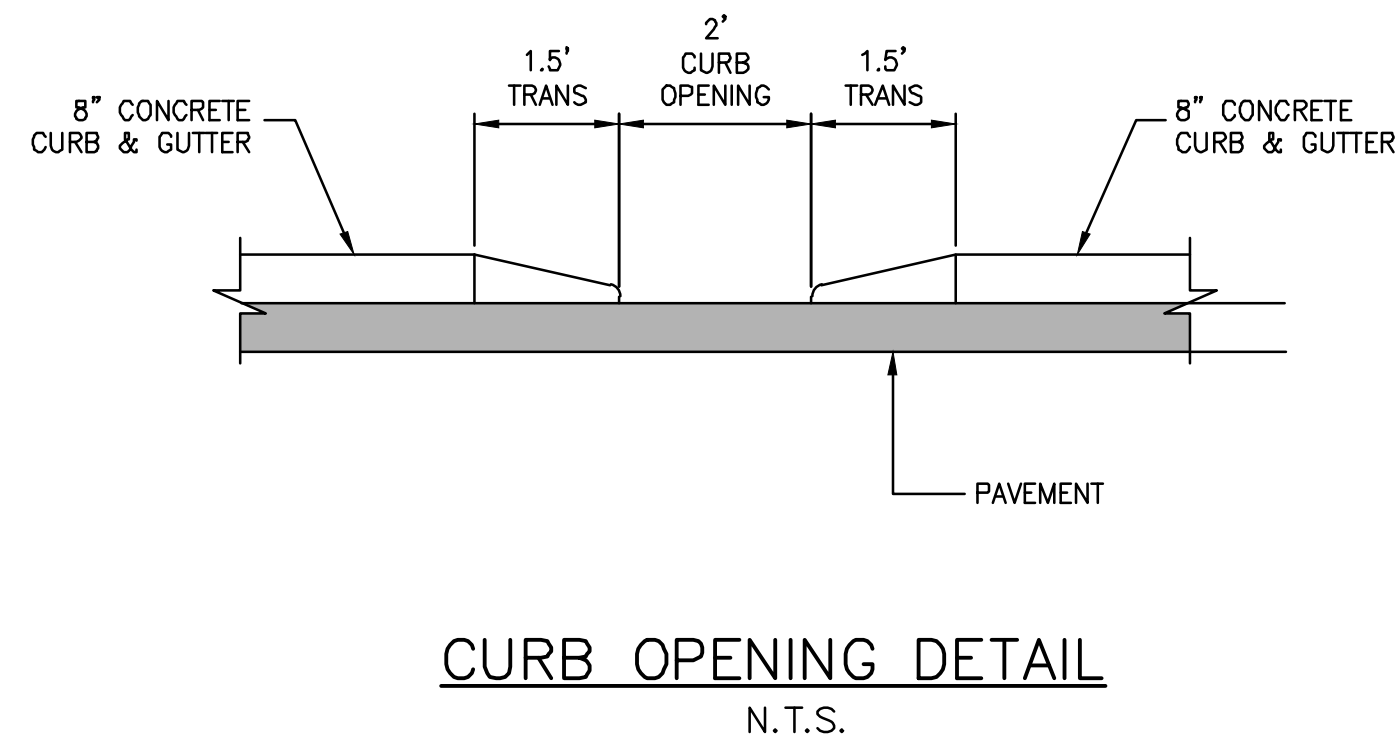
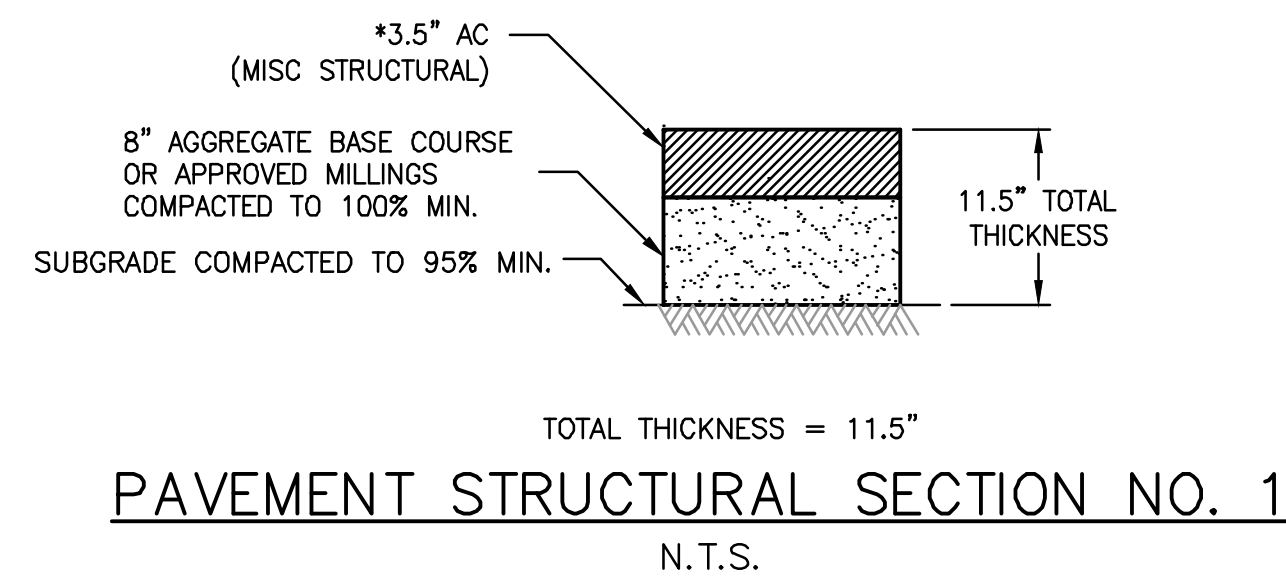
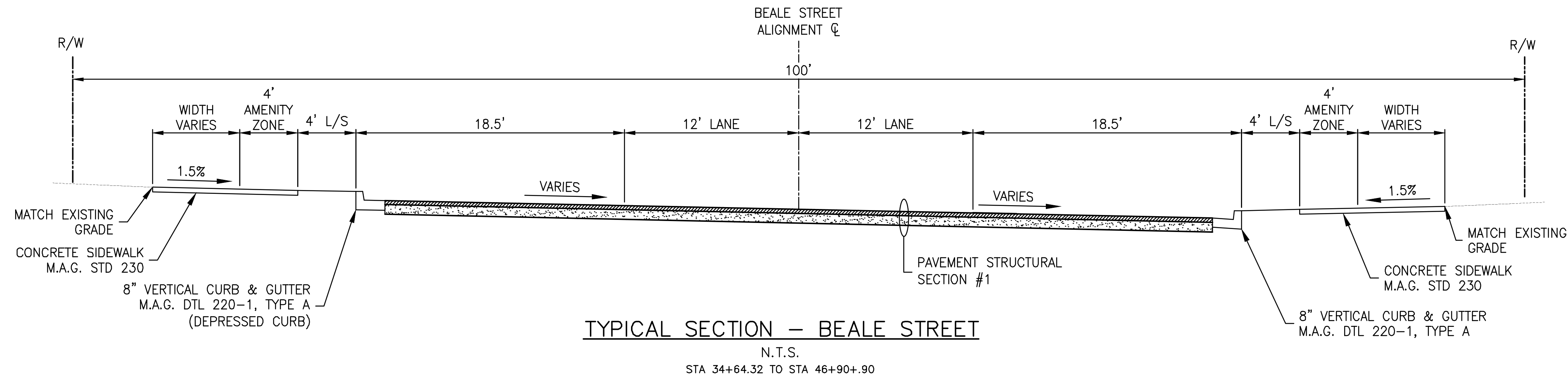
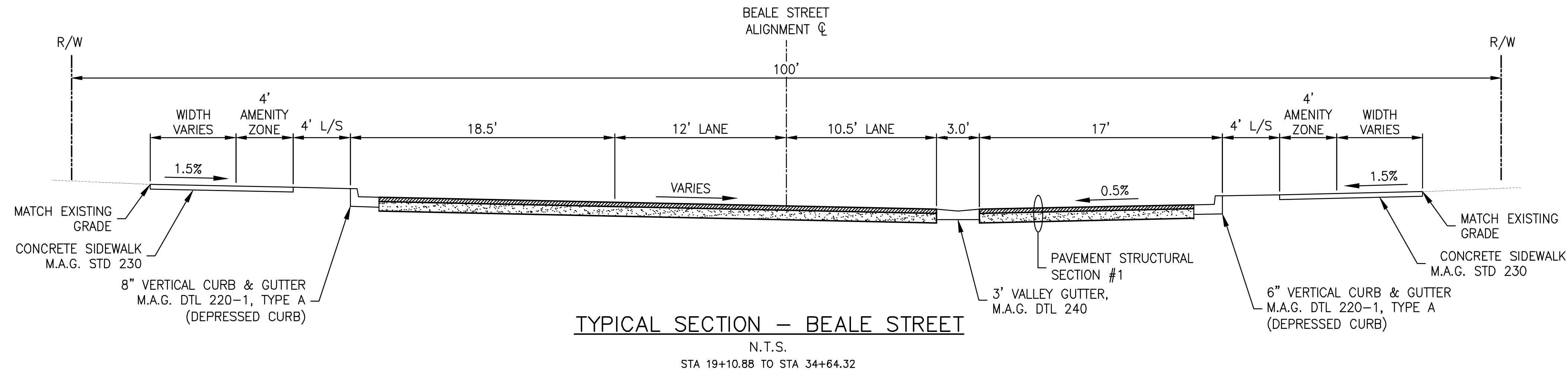
EXPIRES: 9/30/2024

PROJECT NO.  
 3720205006

DRAWING NAME  
**GN02**  
 SHEET NO. 3 of 63

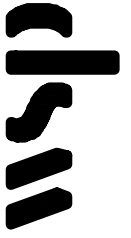
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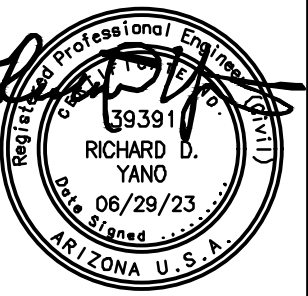
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**TYPICAL SECTION**  
KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023



EXPIRES: 9/30/2024

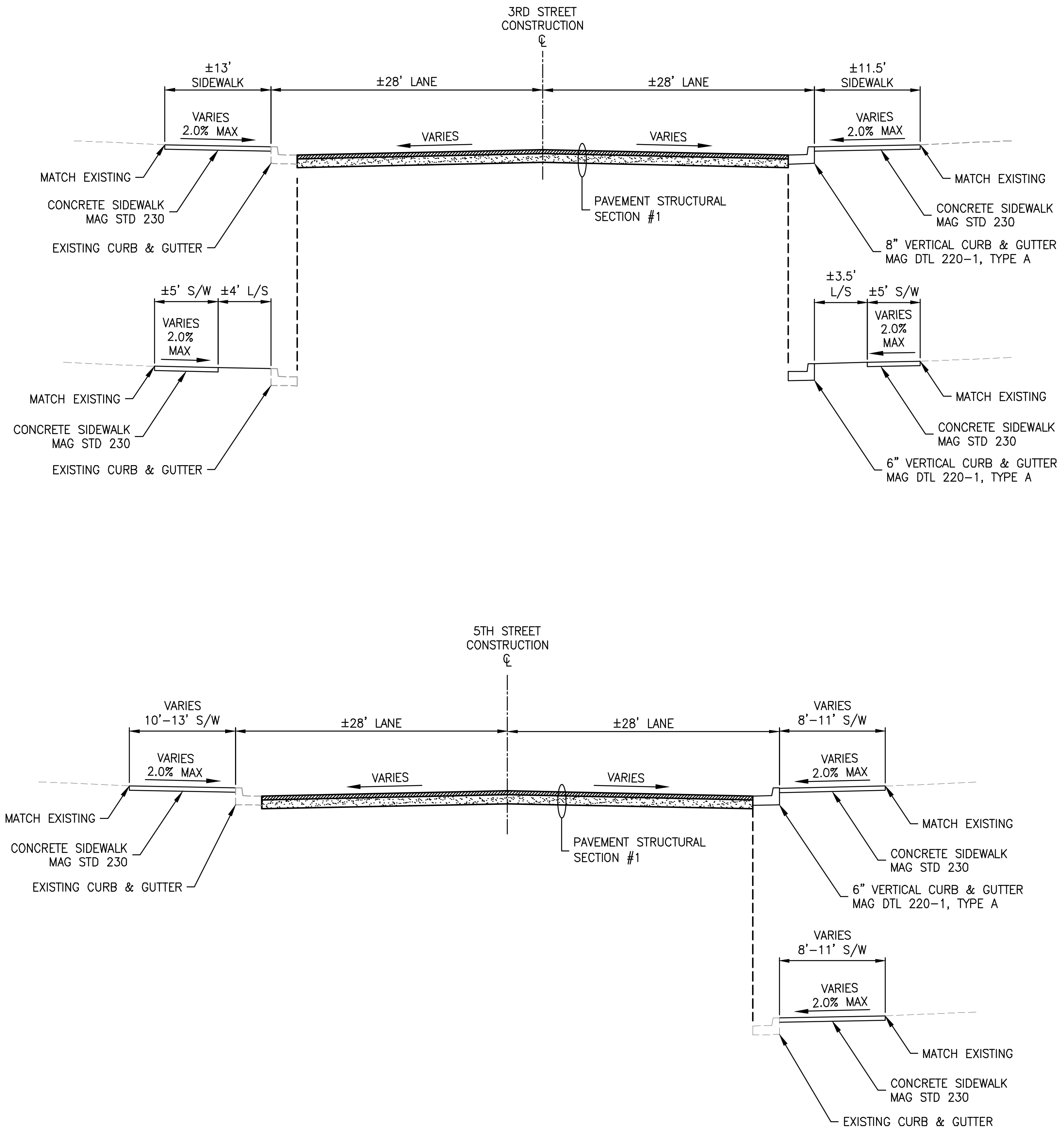
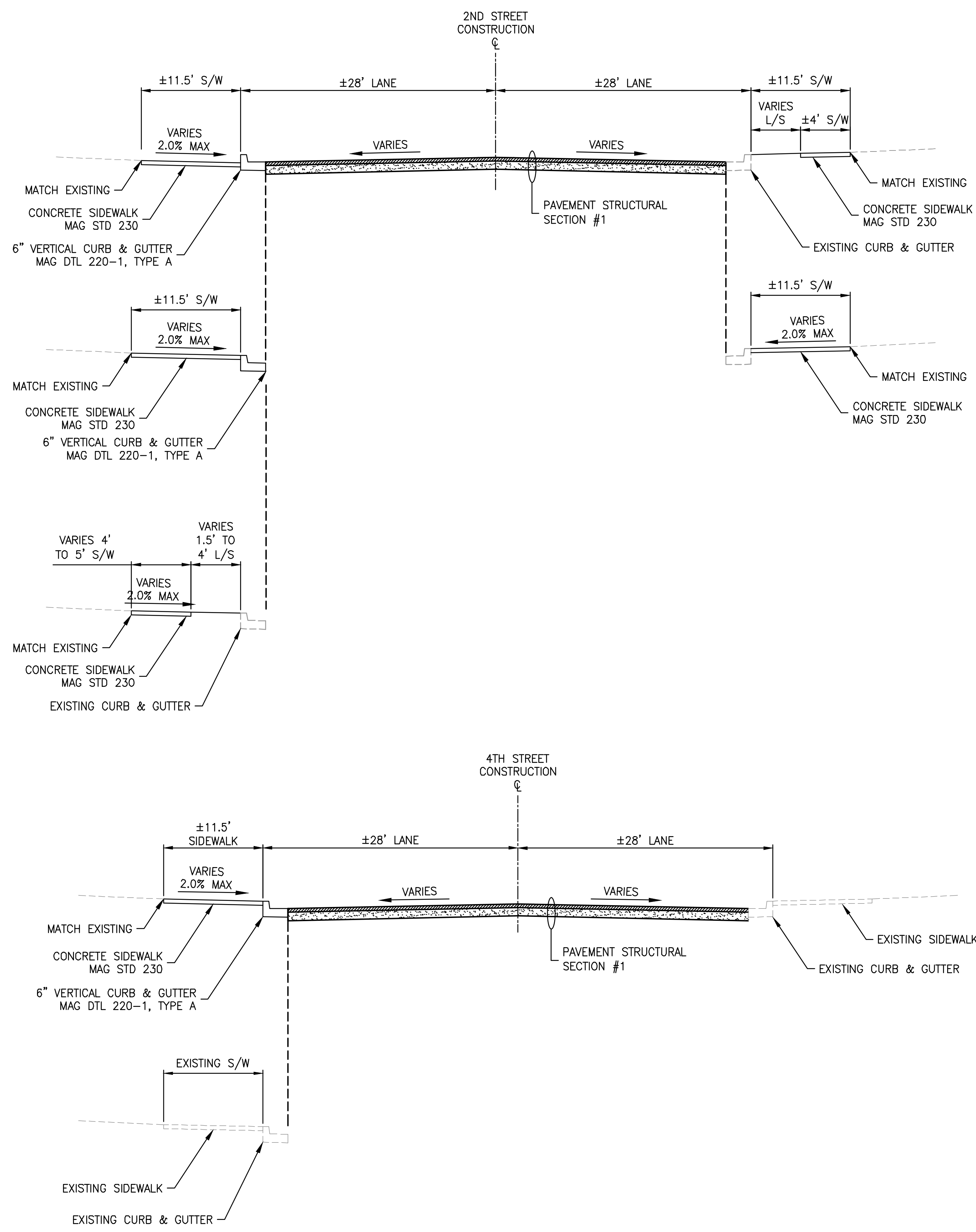
PROJECT NO.  
3720205006

DRAWING NAME  
**GN03**

SHEET NO. 4 of 63

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TYPICAL SECTION  
 KINGMAN DOWNTOWN INFRASTRUCTURE  
 BEALE ST - 1ST ST TO 6TH ST  
 KINGMAN, ARIZONA

DESIGNED BY: HMR  
 DRAWN BY: AA  
 CHECKED BY: DY  
 DATE: JUNE 2023



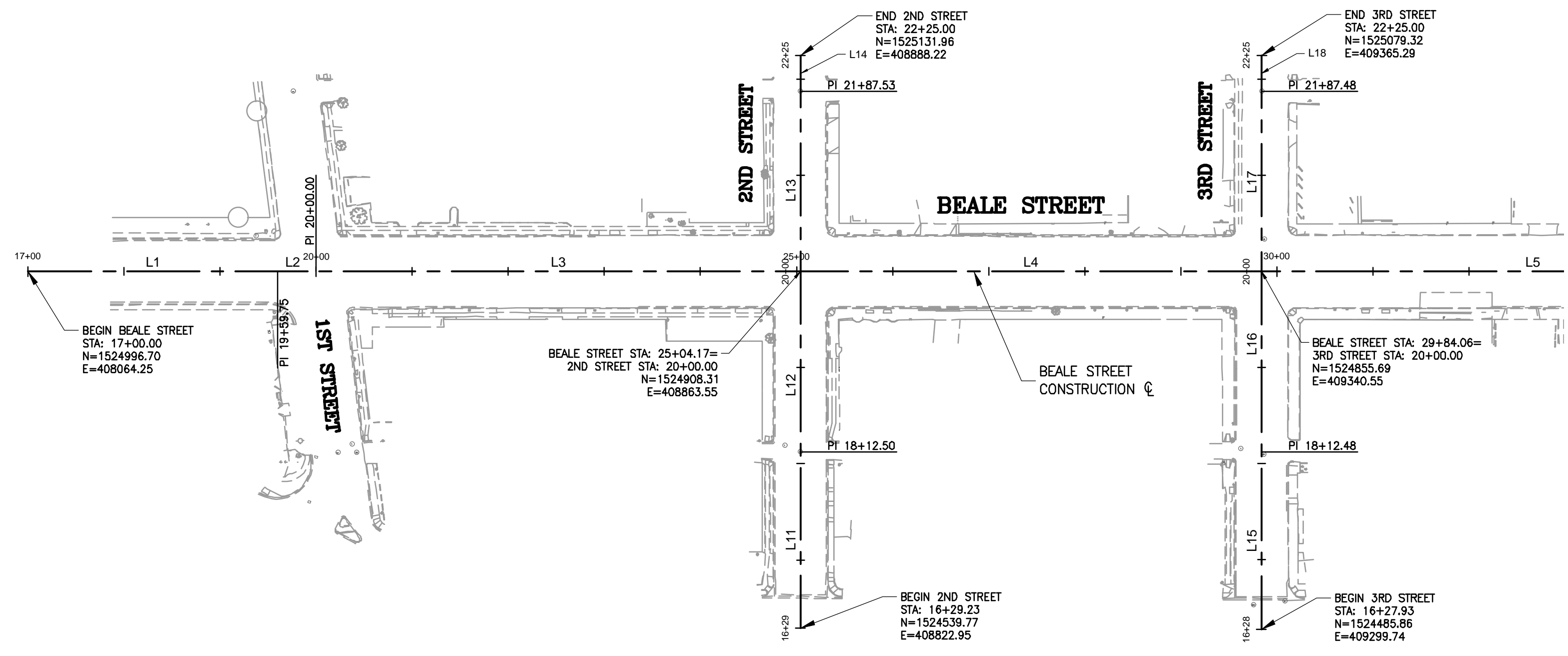
EXPIRES: 9/30/2024

PROJECT NO.  
 3720205006

DRAWING NAME  
**GN04**  
 SHEET NO. 5 OF 63

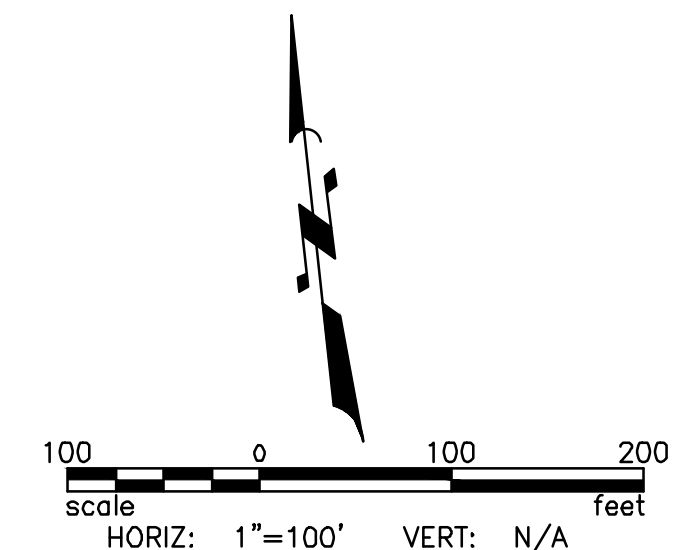
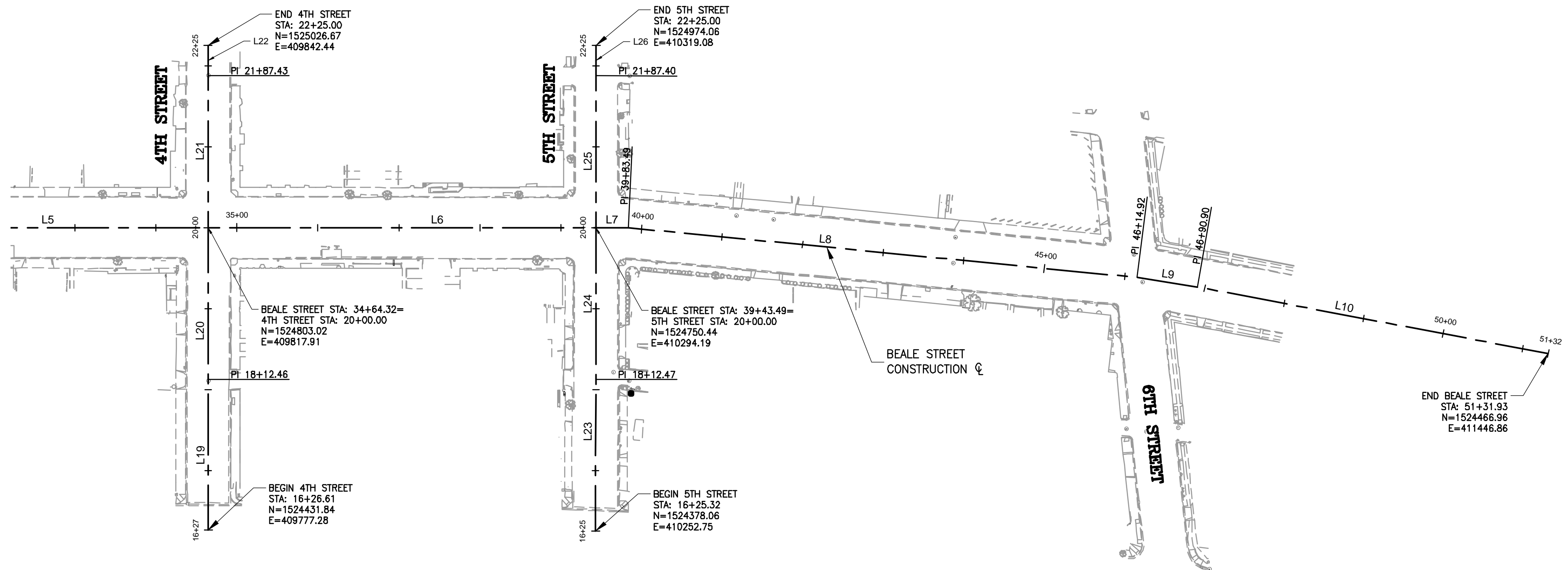
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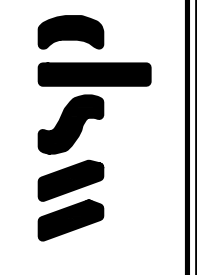
LINE TABLE			
NO	LENGTH	BEARING	ALIGNMENT
L1	259.75'	S83° 39' 54"E	BEALE STREET
L2	40.25'	S83° 43' 16"E	BEALE STREET
L3	504.17'	S83° 42' 01"E	BEALE STREET
L4	479.90'	S83° 42' 15"E	BEALE STREET
L5	480.26'	S83° 42' 12"E	BEALE STREET
L6	479.17'	S83° 42' 04"E	BEALE STREET
L7	40.00'	S83° 42' 57"E	BEALE STREET
L8	631.44'	S78° 07' 05"E	BEALE STREET
L9	75.98'	S74° 42' 29"E	BEALE STREET
L10	441.03'	S72° 59' 05"E	BEALE STREET
L11	183.27'	N6° 17' 19"E	2ND STREET
L12	187.50'	N6° 17' 00"E	2ND STREET
L13	187.53'	N6° 17' 51"E	2ND STREET

LINE TABLE			
NO	LENGTH	BEARING	ALIGNMENT
L14	37.47'	N6° 17' 00"E	2ND STREET
L15	184.55'	N6° 18' 10"E	3RD STREET
L16	187.52'	N6° 17' 25"E	3RD STREET
L17	187.48'	N6° 18' 55"E	3RD STREET
L18	37.52'	N6° 17' 49"E	3RD STREET
L19	185.85'	N6° 15' 08"E	4TH STREET
L20	187.54'	N6° 14' 31"E	4TH STREET
L21	187.43'	N6° 15' 44"E	4TH STREET
L22	37.57'	N6° 14' 47"E	4TH STREET
L23	187.15'	N6° 21' 02"E	5TH STREET
L24	187.53'	N6° 20' 55"E	5TH STREET
L25	187.40'	N6° 21' 10"E	5TH STREET
L26	37.60'	N6° 21' 02"E	5TH STREET



REVISIONS:

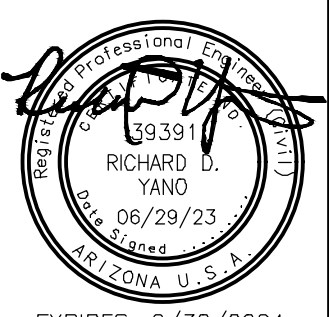
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4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100



GEOMETRIC PLAN

PROJECT: KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023



EXPIRES: 9/30/2024

PROJECT NO.  
372025006

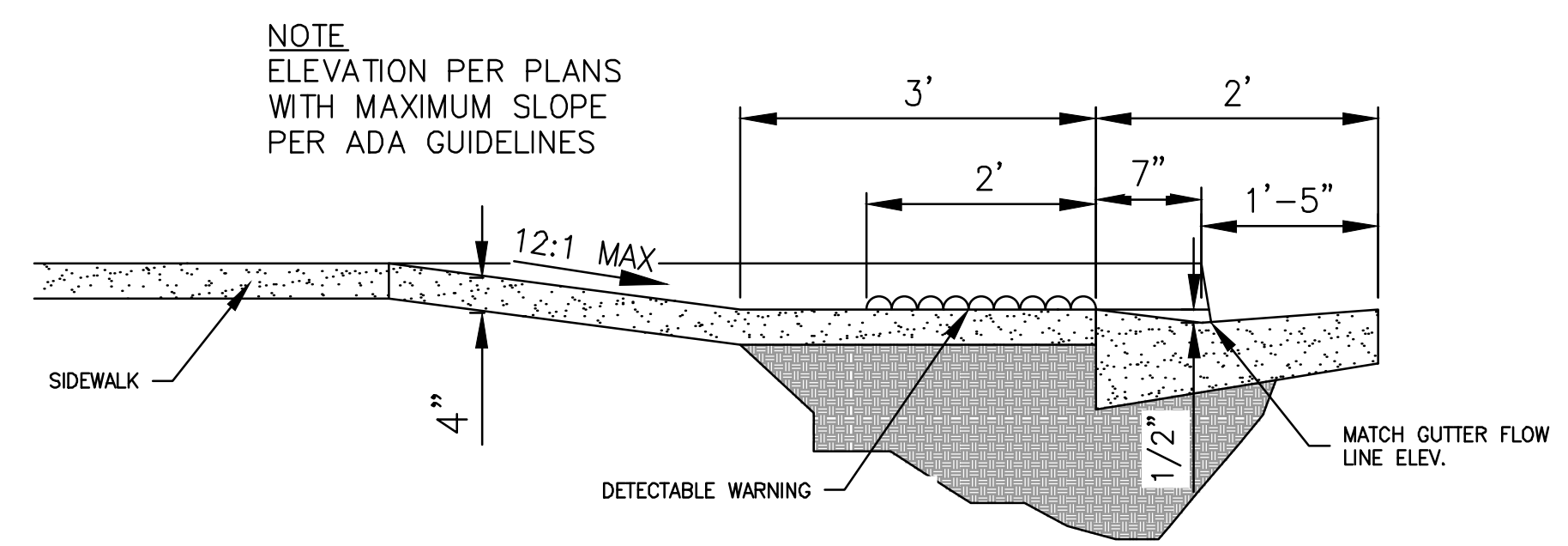
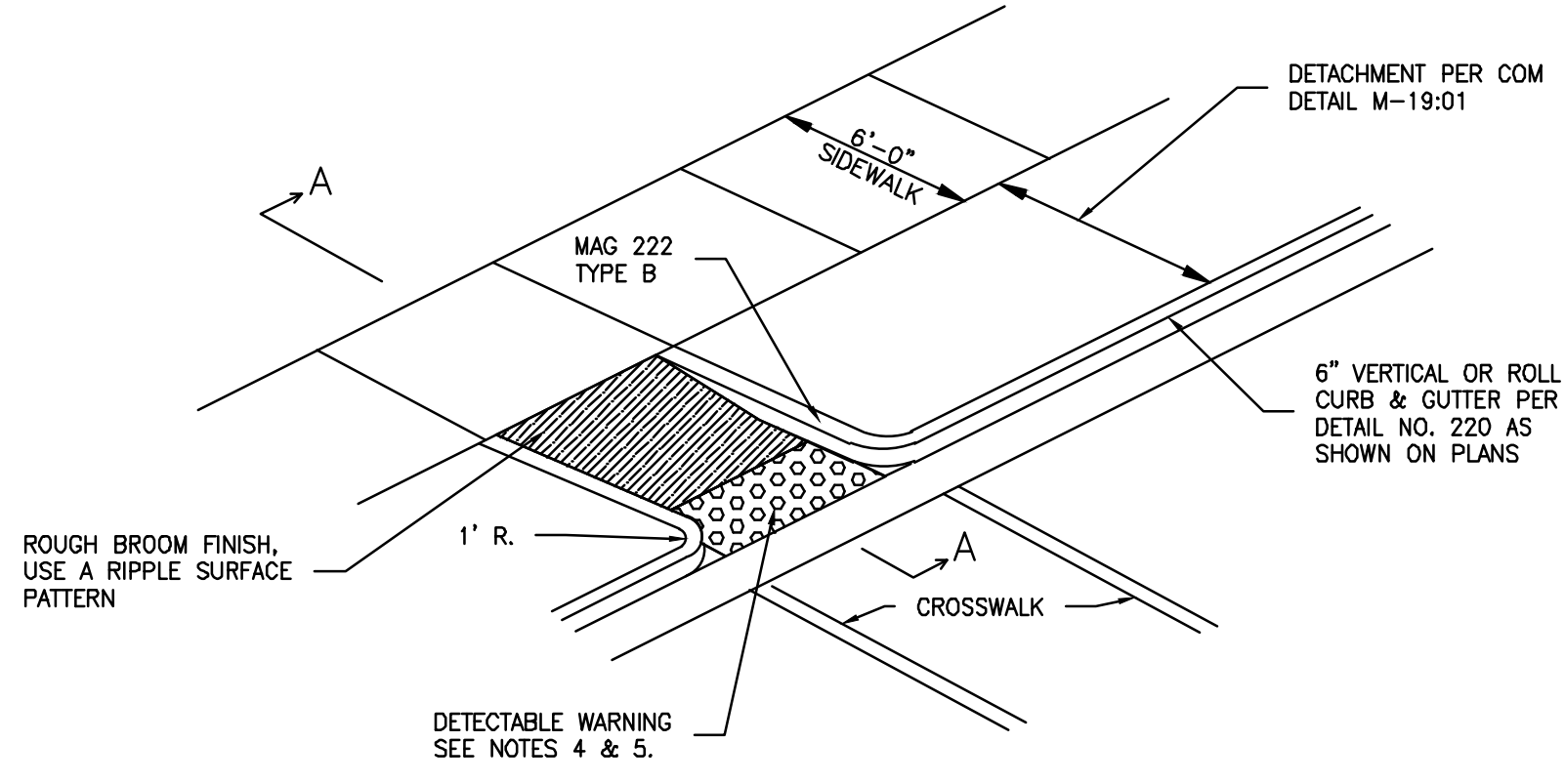
DRAWING NAME  
**GEO01**  
SHEET NO. 6 of 63

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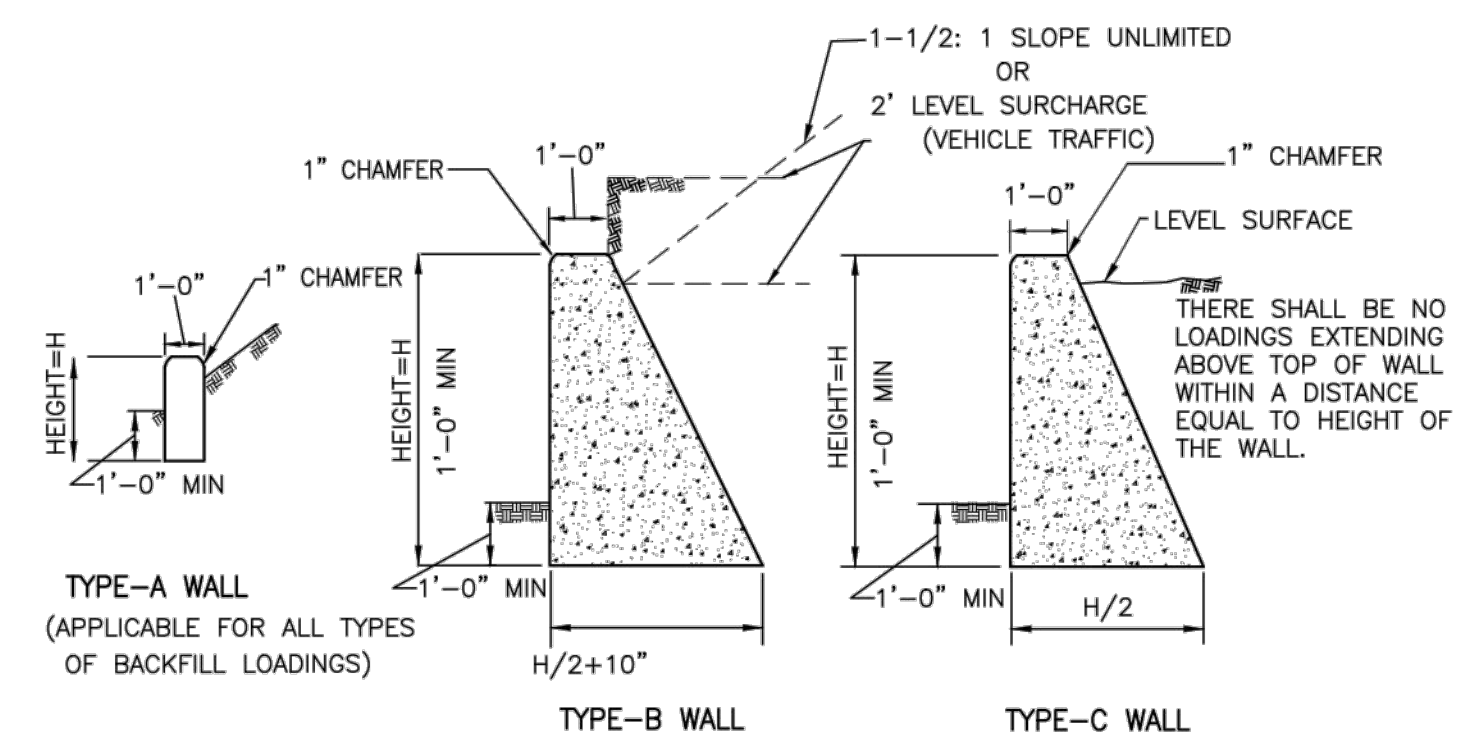
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**NOTES**

1. TYPE 'D' RAMP TO BE USED AT MID-BLOCK AND "T" INTERSECTIONS.
2. CLASS 'B' CONCRETE PER MAG SECTION 725.
3. MAXIMUM DISTANCE BETWEEN PEDESTRIAN PUSH BUTTON FACE & ACCESSIBLE APPROACH SHALL BE 10 INCHES.



**MID-BLOCK CROSSING AND ADA STALL RAMP DETAIL**  
N.T.S.



**CONCRETE**  
CONCRETE SHALL BE CLASS "B"

**DESIGN CONDITIONS**  
WALLS ARE TO BE USED FOR THE LOADING CONDITIONS SHOWN FOR EACH TYPE WALL. DESIGN H MAY BE EXCEEDED BY SIX INCHES BEFORE GOING TO NEXT SIZE.

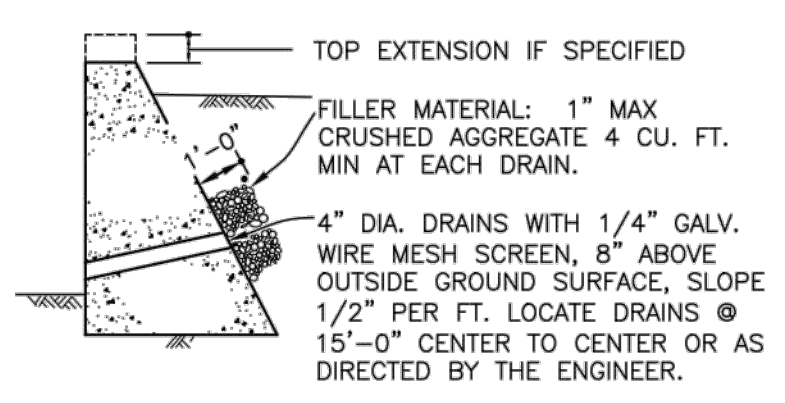
**DESIGN DATA**  
FC = 1200 PSI  
F'C = 3000 PSI  
EARTH = 120 PCF  
AND EQUIVALENT FLUID PRESSURE=36 PSF PER FOOT OF HEIGHT

WALLS SHOWN FOR 1-1/2:1 UNLIMITED SLOPING SURCHARGE ARE DESIGNED IN ACCORDANCE WITH RANKINE'S FORMULA FOR UNLIMITED SLOPING SURCHARGE WITH  $\phi = 42^\circ$ .  
NOTE: MAXIMUM TOE PRESSURE UNDER WALL FOOTING = 1-1/2 TONS/SQ. FT. SPECIAL DESIGN REQUIRED WHERE FOOTING MATERIAL IS INCAPABLE OF SUPPORTING THIS PRESSURE.

**EXCAVATION AND BACKFILL**  
COMPACTION OF BACKFILL MATERIAL BY JETTING OR PONDING WITH WATER WILL NOT BE PERMITTED.

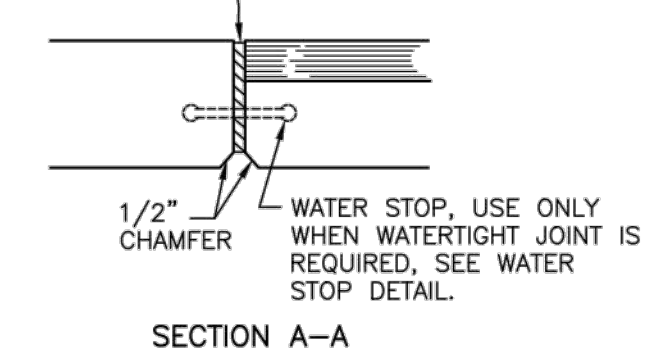
EACH LAYER OF BACKFILL SHALL BE MOISTENED AS DIRECTED BY THE ENGINEER AND THOROUGHLY TAMPED, ROLLED OR OTHERWISE COMPACTED UNTIL THE RELATIVE COMPACTION IS NOT LESS THAN 90 PERCENT.

NO BACKFILL MATERIAL SHALL BE DEPOSITED AGAINST CONCRETE RETAINING WALLS UNTIL THE CONCRETE HAS DEVELOPED A STRENGTH OF 2,500 PSI IN COMPRESSION AS DETERMINED BY TEST CYLINDERS, OR UNTIL 28 DAYS AFTER WALL HAS BEEN PLACED.

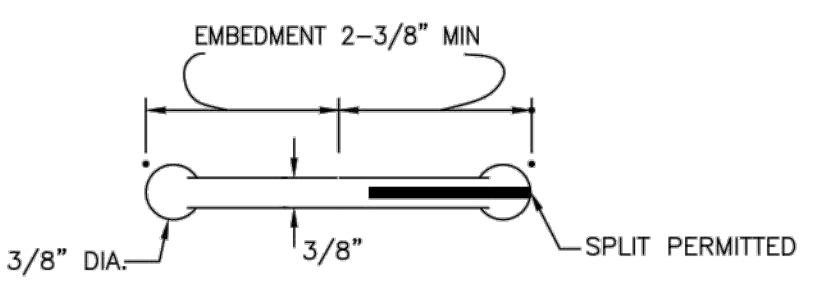


**TYPICAL DRAINAGE**  
WHEN H IS GREATER THAN 4'-0"

1/2" EXPANSION JOINT, FILL WITH PREMOLDED EXPANSION JOINT FILLER. LOCATE JOINTS AT APPROX. 30'-0" CENTERS OR AS DIRECTED BY THE ENGINEER.



**SECTION A-A**



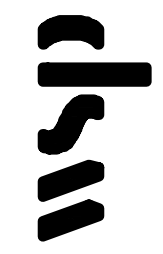
**RUBBER WATERSTOP**  
USE ONLY WHEN WATERTIGHT JOINT IS REQUIRED.

WALL TYPE	HEIGHT	BASE	CONCRETE CF/FT
A	1'-6"	1'-0"	1.50 cu ft.
	2'-0"	1'-0"	2.00 cu ft.
	3'-0"	2'-4"	4.99 cu ft.
B	4'-0"	2'-10"	7.66 cu ft.
	5'-0"	3'-4"	10.82 cu ft.
	6'-0"	3'-10"	14.49 cu ft.
	3'-0"	1'-6"	3.75 cu ft.
	4'-0"	2'-0"	6.00 cu ft.
C	5'-0"	2'-6"	8.75 cu ft.
	6'-0"	3'-0"	12.00 cu ft.

**GRAVITY RETAINING WALL DETAIL**  
N.T.S.

REVISIONS:

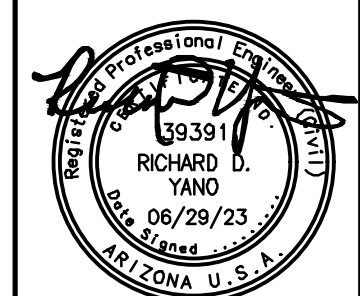
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PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100



DETAILS

KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023



EXPIRES: 9/30/2024

PROJECT NO.  
3720205006

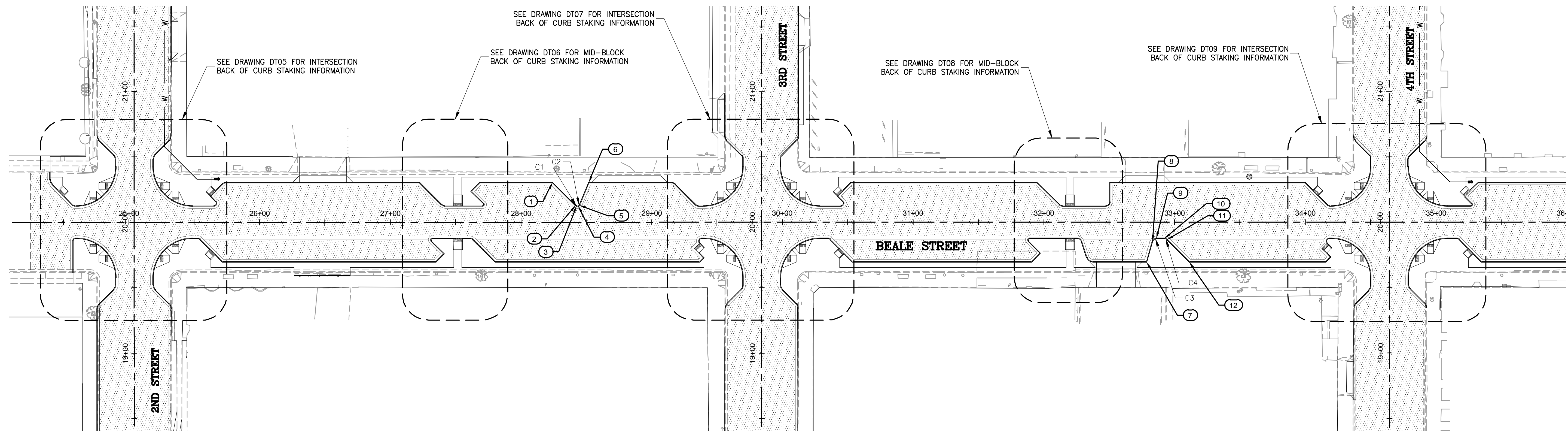
DRAWING NAME

DT01

SHEET NO. 7 of 63

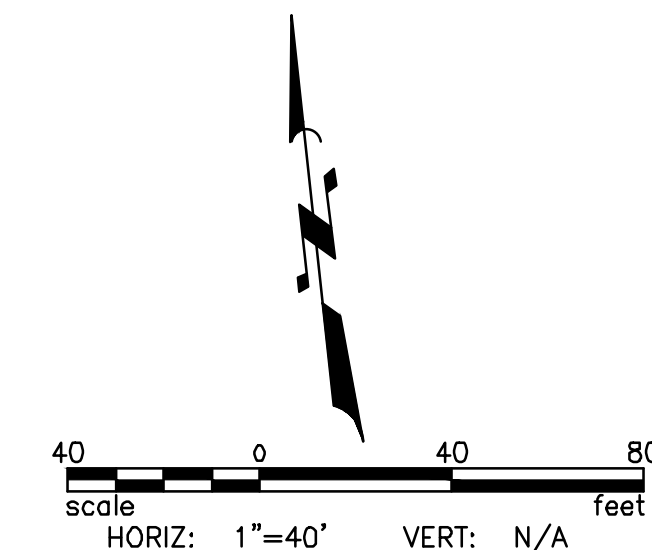
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BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE ST/28+24.18	30.48, LT	3344.20
2	BEALE ST/28+41.89	12.78, LT	3343.59
3	BEALE ST/28+42.58	12.50, LT	3343.55
4	BEALE ST/28+43.75	12.50, LT	3343.56
5	BEALE ST/28+44.67	13.10, LT	3343.61
6	BEALE ST/28+51.83	30.48, LT	3344.06
7	BEALE ST/32+78.69	30.53, RT	3346.47
8	BEALE ST/32+83.16	14.71, RT	3346.37
9	BEALE ST/32+86.06	12.50, RT	3346.44
10	BEALE ST/32+91.98	12.50, RT	3346.53
11	BEALE ST/32+94.13	13.41, RT	3346.50
12	BEALE ST/33+11.25	30.53, RT	3347.07

CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C1	0.76	1.00	43°36'52"
C2	1.16	1.01	66°09'45"
C3	3.92	3.00	74°49'07"
C4	2.40	3.00	45°49'53"



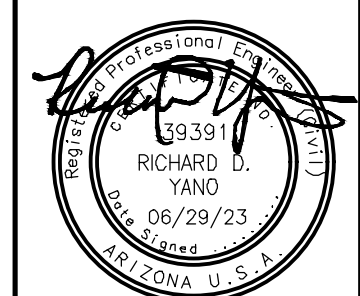
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 4600 E. WASHINGTON STREET, SUITE 600  
 PHOENIX, ARIZONA 85034  
 PHONE: 602-733-6000  
 FAX: 602-733-6100



STAKING PLAN  
 KINGMAN DOWNTOWN INFRASTRUCTURE  
 BEALE ST - 1ST ST TO 6TH ST  
 KINGMAN, ARIZONA

DESIGNED BY: HMR  
 DRAWN BY: AA  
 CHECKED BY: DY  
 DATE: JUNE 2023



EXPIRES: 9/30/2024

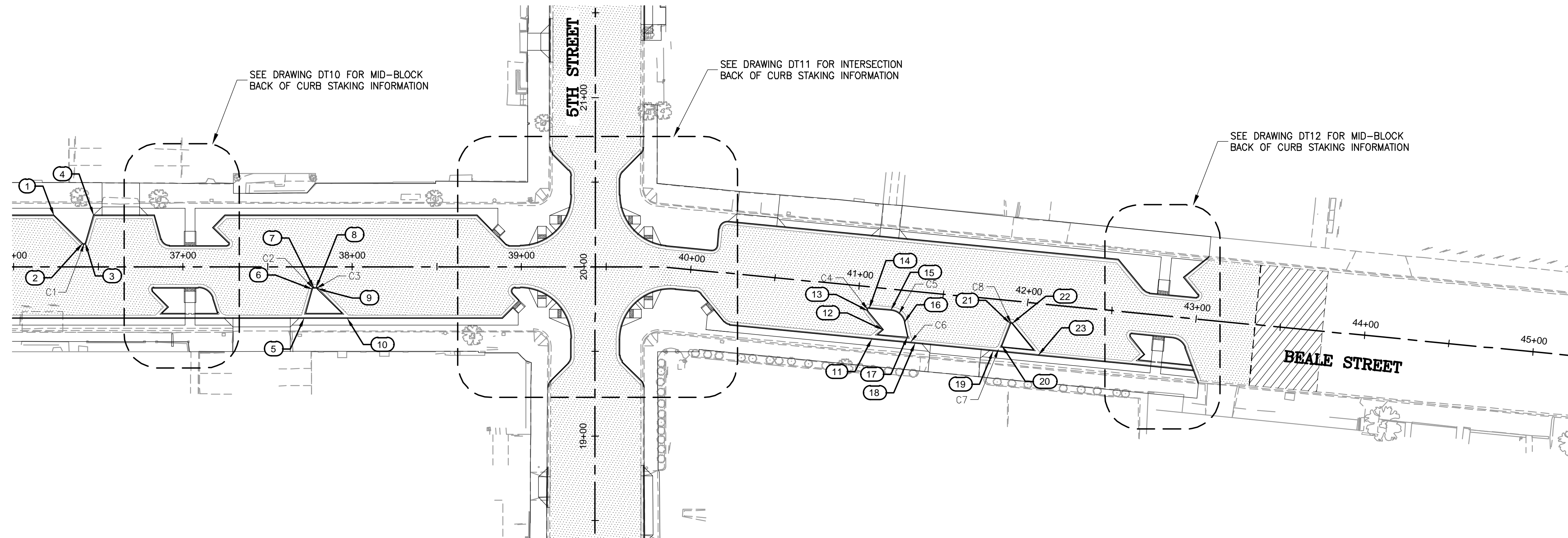
PROJECT NO.  
3720205006

DRAWING NAME  
DT02  
SHEET NO. 8 of 63

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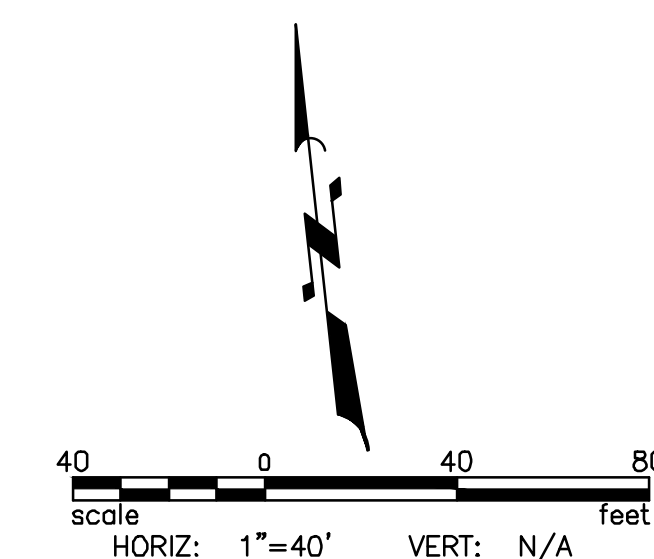
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PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE ST/36+23.80	30.46, LT	3353.49
2	BEALE ST/36+40.58	13.68, LT	3353.04
3	BEALE ST/36+42.25	14.10, LT	3353.14
4	BEALE ST/36+47.20	30.46, LT	3353.78
5	BEALE ST/37+71.47	30.53, RT	3352.83
6	BEALE ST/37+76.36	13.26, RT	3353.54
7	BEALE ST/37+77.33	12.50, RT	3353.66
8	BEALE ST/37+78.54	12.50, RT	3353.66
9	BEALE ST/37+79.25	12.83, RT	3353.64
10	BEALE ST/37+96.95	30.53, RT	3352.89
11	BEALE ST/41+10.47	30.54, RT	3352.67
12	BEALE ST/41+16.65	24.36, RT	3352.85
13	BEALE ST/41+06.54	14.25, RT	3353.20
14	BEALE ST/41+07.21	12.50, RT	3353.41

BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
15	BEALE ST/41+20.08	12.50, RT	3353.45
16	BEALE ST/41+28.64	18.75, RT	3353.13
17	BEALE ST/41+31.37	27.09, RT	3352.70
18	BEALE ST/41+36.11	30.50, RT	3352.66
19	BEALE ST/41+82.56	30.50, RT	3352.64
20	BEALE ST/41+87.36	26.88, RT	3352.68
21	BEALE ST/41+91.09	13.45, RT	3353.20
22	BEALE ST/41+91.93	13.23, RT	3353.24
23	BEALE ST/42+09.23	30.54, RT	3352.62

CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C1	2.06	1.00	118°10'23"
C2	1.33	1.00	76°09'03"
C3	0.80	1.01	45°24'36"
C4	2.41	1.00	138°05'59"
C5	11.33	9.00	72°06'18"
C6	6.23	5.00	71°26'02"
C7	6.46	5.00	74°00'46"
C8	1.04	0.50	119°28'35"

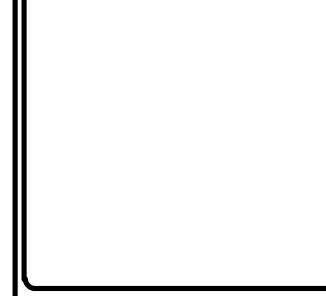


REVISIONS:


WSP USA Environment & Infrastructure, Inc.  
 4600 E. WASHINGTON STREET, SUITE 600  
 PHOENIX, ARIZONA 85034  
 PHONE: 602-733-6000  
 FAX: 602-733-6100

STAKING PLAN  
 KINGMAN DOWNTOWN INFRASTRUCTURE  
 BEALE ST - 1ST ST TO 6TH ST  
 KINGMAN, ARIZONA

DESIGNED BY: HMR  
 DRAWN BY: AA  
 CHECKED BY: DY  
 DATE: JUNE 2023



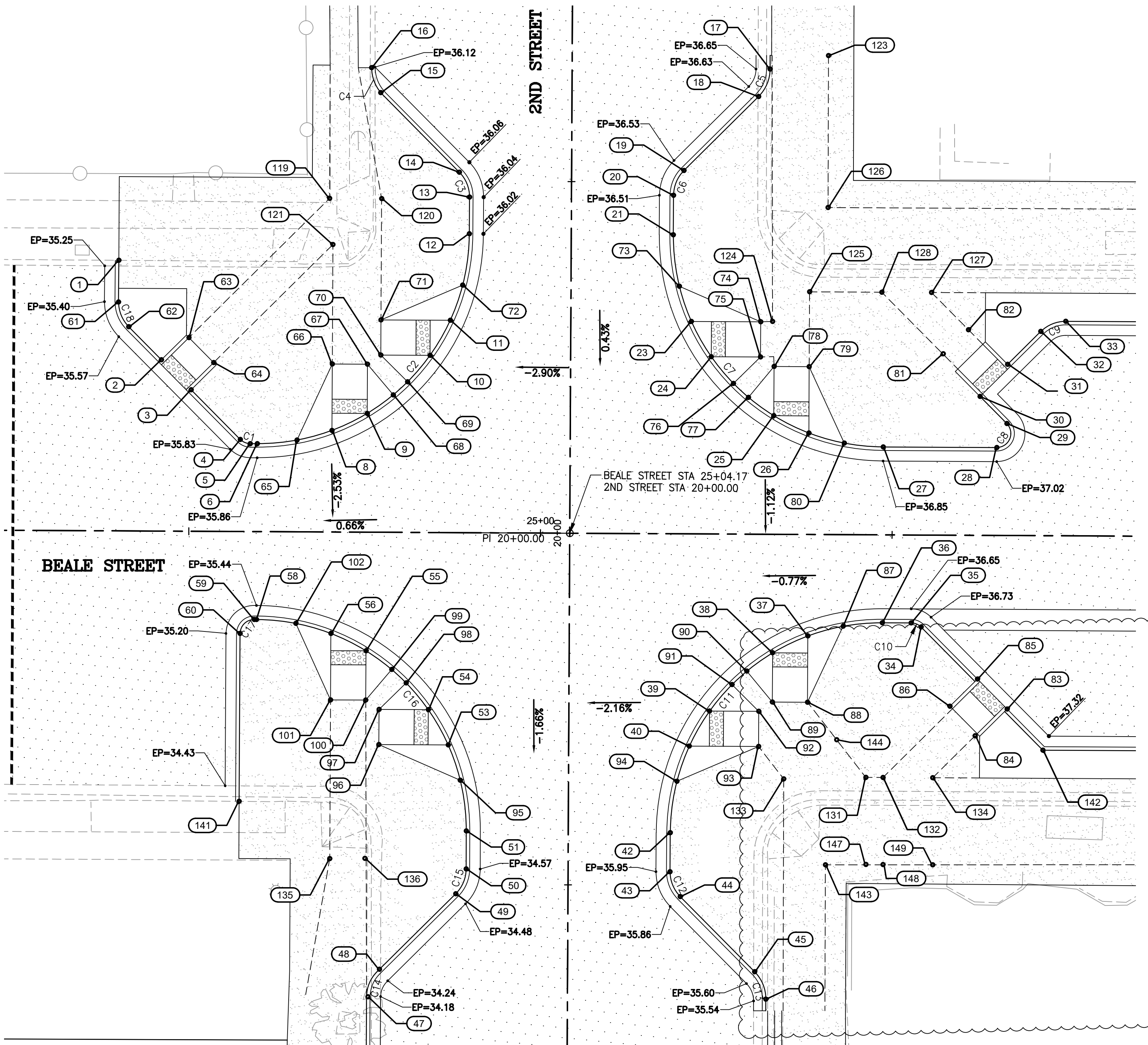
EXPIRES: 9/30/2024

PROJECT NO.  
3720205006

DRAWING NAME  
**DT03**  
SHEET NO. 9 of 63

File: C:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-C04.dwg

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**BEALE STREET AND 2ND STREET INTERSECTION**

BACK OF CURB STAKING TABLE

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE ST/24+39.85	38.47, LT	3335.91
2	BEALE ST/24+45.98	24.36, LT	3336.14
3	BEALE ST/24+50.22	20.11, LT	3336.28
4	BEALE ST/24+57.25	13.09, LT	3336.50
5	BEALE ST/24+58.66	12.50, LT	3336.53
6	BEALE ST/24+59.66	12.50, LT	3336.54
8	BEALE ST/24+70.28	14.44, LT	3336.57
9	BEALE ST/24+75.28	16.89, LT	3336.59
10	BEALE ST/24+84.17	25.19, LT	3336.63
11	BEALE ST/24+87.02	30.19, LT	3336.65
12	BEALE ST/24+89.66	42.50, LT	3336.70
13	BEALE ST/24+89.66	47.72, LT	3336.72
14	BEALE ST/24+88.20	51.25, LT	3336.73
15	BEALE ST/24+76.97	62.50, LT	3336.79
16	BEALE ST/24+75.64	66.05, LT	3336.24
17	BEALE ST/25+32.31	66.15, LT	3337.35
18	BEALE ST/25+30.70	62.24, LT	3337.32
19	BEALE ST/25+20.13	51.67, LT	3337.22
20	BEALE ST/25+18.67	48.13, LT	3337.19
21	BEALE ST/25+18.67	42.50, LT	3337.17

BACK OF CURB STAKING TABLE

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
23	BEALE ST/25+21.31	30.20, LT	3337.26
24	BEALE ST/25+24.16	25.20, LT	3337.31
25	BEALE ST/25+33.09	16.86, LT	3337.40
26	BEALE ST/25+38.09	14.43, LT	3337.45
27	BEALE ST/25+48.67	12.50, LT	3337.54
28	BEALE ST/25+64.82	12.50, LT	3337.71
29	BEALE ST/25+66.24	15.91, LT	3337.75
30	BEALE ST/25+62.41	19.74, LT	3337.81
31	BEALE ST/25+66.30	24.34, LT	3337.94
32	BEALE ST/25+71.00	29.04, LT	3338.09
33	BEALE ST/25+74.53	30.50, LT	3338.21
34	BEALE ST/25+54.19	13.09, RT	3337.31
35	BEALE ST/25+52.78	12.50, RT	3337.23
36	BEALE ST/25+48.68	12.50, RT	3337.13
37	BEALE ST/25+38.10	14.43, RT	3337.02
38	BEALE ST/25+33.10	16.86, RT	3336.96
39	BEALE ST/25+24.17	25.19, RT	3336.83
40	BEALE ST/25+21.32	30.19, RT	3336.76
42	BEALE ST/25+18.68	42.51, RT	3336.63
43	BEALE ST/25+18.68	48.06, RT	3336.54

BACK OF CURB STAKING TABLE

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
44	BEALE ST/25+20.14	51.59, RT	3336.44
45	BEALE ST/25+30.78	62.22, RT	3336.19
46	BEALE ST/25+32.39	66.10, RT	3336.13
47	BEALE ST/24+75.82	66.07, RT	3334.66
48	BEALE ST/24+77.43	62.14, RT	3334.66
49	BEALE ST/24+88.22	51.35, RT	3334.90
50	BEALE ST/24+89.68	47.81, RT	3334.99
51	BEALE ST/24+89.68	42.42, RT	3335.07
53	BEALE ST/24+87.04	30.19, RT	3335.28
54	BEALE ST/24+84.18	25.19, RT	3335.38
55	BEALE ST/24+75.28	16.88, RT	3335.58
56	BEALE ST/24+70.28	14.44, RT	3335.68
58	BEALE ST/24+59.68	12.50, RT	3335.86
59	BEALE ST/24+59.36	12.50, RT	3335.85
60	BEALE ST/24+57.36	14.50, RT	3335.62
61	BEALE ST/24+39.84	32.55, LT	3335.69
62	BEALE ST/24+41.30	29.03, LT	3335.99
63	BEALE ST/24+49.87	27.54, LT	3336.24
64	BEALE ST/24+53.41	24.00, LT	3336.24
65	BEALE ST/24+65.31	13.04, LT	3336.56

BACK OF CURB STAKING TABLE

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
66	BEALE ST/24+70.28	23.89, LT	3336.66
67	BEALE ST/24+75.28	23.89, LT	3336.58
68	BEALE ST/24+78.97	19.54, LT	3336.61
69	BEALE ST/24+81.00	21.41, LT	3336.62
70	BEALE ST/24+77.17	25.19, LT	3336.58
71	BEALE ST/24+77.17	30.19, LT	3336.64
72	BEALE ST/24+88.76	35.19, LT	3336.67
73	BEALE ST/25+19.57	35.20, LT	3337.22
74	BEALE ST/25+31.16	30.20, LT	3337.41
75	BEALE ST/25+31.16	25.20, LT	3337.38
76	BEALE ST/25+27.33	21.41, LT	3337.34
77	BEALE ST/25+29.47	19.44, LT	3337.37
78	BEALE ST/25+33.09	23.86, LT	3337.40
79	BEALE ST/25+38.09	23.86, LT	3337.45
80	BEALE ST/25+43.14	13.01, LT	3337.49
81	BEALE ST/25+57.14	25.79, LT	3337.82
82	BEALE ST/25+60.70	29.23, LT	3337.95
83	BEALE ST/25+66.49	24.68, RT	3337.74
84	BEALE ST/25+61.96	28.50, RT	3337.59
85	BEALE ST/25+62.25	20.43, RT	3337.59

BACK OF CURB STAKING TABLE

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
86	BEALE ST/25+58.36	24.32, RT	3337.51
87	BEALE ST/25+43.10	13.02, RT	3337.07
88	BEALE ST/25+38.10	23.86, RT	3337.02
89	BEALE ST/25+33.10	23.86, RT	3336.96
90	BEALE ST/25+29.44	19.48, RT	3336.91
91	BEALE ST/25+27.35	21.40, RT	3336.88
92	BEALE ST/25+31.17	25.19, RT	3336.83
93	BEALE ST/25+31.17	30.19, RT	3336.76
94	BEALE ST/25+19.58	35.19, RT	3336.71
95	BEALE ST/24+88.78	35.19, RT	3335.19
96	BEALE ST/24+77.19	30.20, RT	3335.45
97	BEALE ST/24+77.18	25.20, RT	3335.52
98	BEALE ST/24+81.01	21.41, RT	3335.46
99	BEALE ST/24+78.95	19.51, RT	3335.51
100	BEALE ST/24+75.28	23.88, RT	3335.55
101	BEALE ST/24+70.28	23.88, RT	3335.63
102	BEALE ST/24+65.28	13.03, RT	3335.76
119	BEALE ST/24+69.77	47.44, LT	3336.83
120	BEALE ST/24+77.17	47.44, LT	3336.72
121	BEALE ST/24+70.28	40.88, LT	3336.79

BACK OF CURB STAKING TABLE

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
123	BEALE ST/25+40.61	68.11, LT	3337.47
124	BEALE ST/25+32.85	30.26, LT	3337.43
125	BEALE ST/25+38.09	34.50, LT	3337.36
126	BEALE ST/25+40.66	46.50, LT	3337.42
127	BEALE ST/25+55.43	34.50, LT	3338.01
128	BEALE ST/25+48.36	34.50, LT	3337.93
131	BEALE ST/25+46.44	34.50, RT	3337.54
132	BEALE ST/25+48.88	34.50, RT	3337.59
133	BEALE ST/25+34.77	34.77, RT	3337.01
134	BEALE ST/25+55.95	34.50, RT	3338.30
135	BEALE ST/24+70.29	46.44, RT	3335.20
136	BEALE ST/24+75.29	46.39, RT	3335.14
141	BEALE ST/24+57.36	38.37, RT	3334.84
142	BEALE ST/25+71.60	30.50, RT	3337.74
143	BEALE ST/25+40.76	46.97, RT	3337.15
144	BEALE ST/25+42.27	29.18, RT	3337.14
147	BEALE ST/25+46.51	46.88, RT	3337.39
148	BEALE ST/25+48.95	46.88, RT	3337.58
149	BEALE ST/25+56.02	46.88, RT	3338.11

CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA
C1	1.57	2.00	44°59'55"
C2	47.13	30.00	90°00'08"
C3	3.92	5.00	44°57'08"
C4	3.87	5.50	40°18'26"
C5	4.34	5.50	45°12'39"
C6	3.93	5.00	44°59'34"
C7	47.12	30.00	90°00'05"
C8	4.71	2.00	134°59'51"
C9	3.93	5.00	44°59'51"

CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA
C10	1.57	2.00	45°00'09"
C11	47.13	30.00	90°00'46"
C12	3.93	5.00	44°59'34"
C13	4.31	5.50	44°52'26"
C14	4.35	5.50	45°20'39"
C15	3.93	5.00	45°00'26"
C16	47.12	30.00	89°59'00"
C17	3.14	2.00	90°00'05"
C18	3.94	5.00	45°06'50"

REVISIONS:

09/23	ADA ACCESSIBLE ROUTE STAKING
-------	------------------------------

WSP USA Environment & Infrastructure, Inc.  
 4600 E. WASHINGTON STREET, SUITE 600  
 PHOENIX, ARIZONA 85034  
 PHONE: 602-733-6000  
 FAX: 602-733-6100

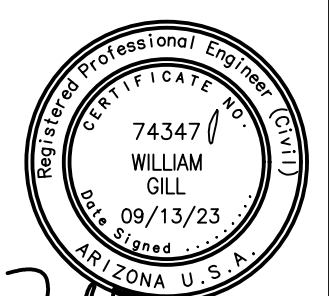
**INTERSECTION DETAIL**  
 KINGMAN DOWNTOWN INFRASTRUCTURE  
 BEALE ST - 1ST ST TO 6TH ST  
 KINGMAN, ARIZONA

DESIGNED BY: HMR  
 DRAWN BY: AA  
 CHECKED BY: DY  
 DATE: JUNE 2023

PROJECT NO.  
 3720205006

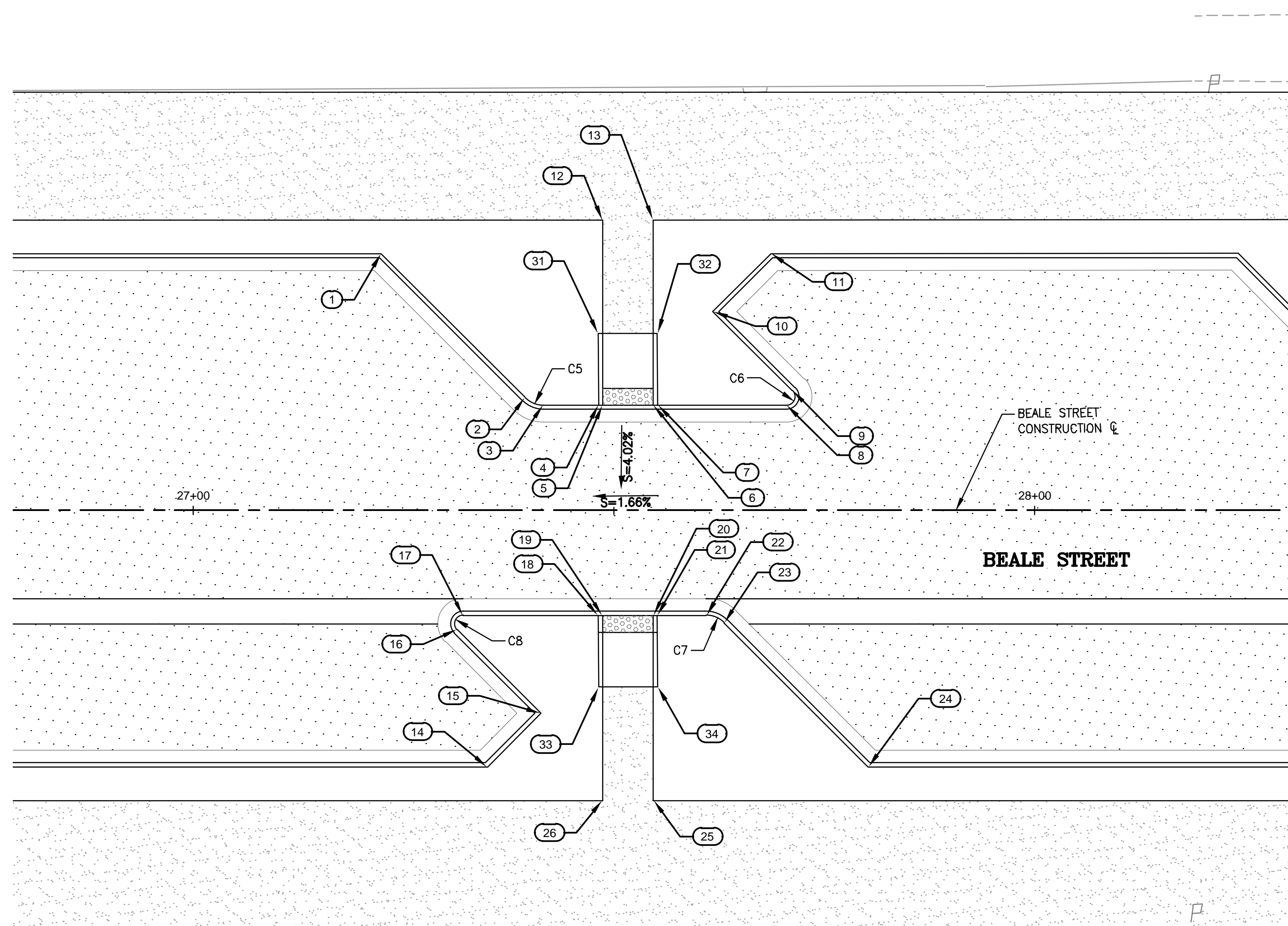
DRAWING NAME  
**DT05**

SHEET NO. 10 of 63



*William Gill*

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BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE STREET/27+22.36	30.49, LT	3342.91
2	BEALE STREET/27+39.48	13.37, LT	3342.61
3	BEALE STREET/27+41.60	12.49, LT	3342.60
4	BEALE STREET/27+48.19	12.53, LT	3342.71
5	BEALE STREET/27+48.65	12.49, LT	3342.72
6	BEALE STREET/27+54.65	12.49, LT	3342.82
7	BEALE STREET/27+55.19	12.49, LT	3342.83
8	BEALE STREET/27+70.47	12.49, LT	3343.08
9	BEALE STREET/27+71.18	14.19, LT	3343.31
10	BEALE STREET/27+61.75	23.62, LT	3343.51
11	BEALE STREET/27+68.62	30.49, LT	3343.80
12	BEALE STREET/27+48.65	34.50, LT	3343.70
13	BEALE STREET/27+54.65	34.50, LT	3343.77
14	BEALE STREET/27+34.96	30.50, RT	3341.61
15	BEALE STREET/27+41.32	24.15, RT	3341.61
16	BEALE STREET/27+31.39	14.22, RT	3341.50
17	BEALE STREET/27+32.09	12.51, RT	3341.41

BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
18	BEALE STREET/27+48.13	12.51, RT	3341.62
19	BEALE STREET/27+48.65	12.51, RT	3341.62
20	BEALE STREET/27+54.65	12.51, RT	3341.70
21	BEALE STREET/27+55.13	12.51, RT	3341.70
22	BEALE STREET/27+60.95	12.50, RT	3341.78
23	BEALE STREET/27+63.09	13.39, RT	3341.86
24	BEALE STREET/27+80.19	30.50, RT	3342.30
25	BEALE STREET/27+54.65	34.50, RT	3341.87
26	BEALE STREET/27+48.65	34.50, RT	3341.76
31	BEALE STREET/27+48.14	20.99, LT	3343.10
32	BEALE STREET/27+55.14	20.99, LT	3343.24
33	BEALE STREET/27+48.19	21.02, RT	3341.67
34	BEALE STREET/27+55.19	21.02, RT	3341.76

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C5	2.36	3.00	45°00'00"
C6	2.36	1.00	135°00'00"
C7	2.36	3.00	45°00'00"
C8	2.36	1.00	135°00'00"

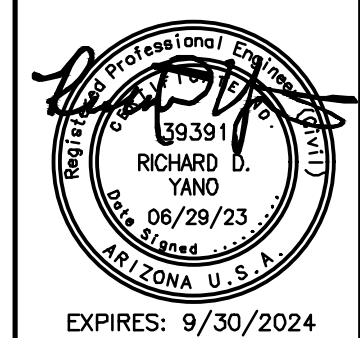
**MID-BLOCK CROSSING BETWEEN 2ND STREET AND 3RD STREET**

REVISIONS:

WSP USA Environment & Infrastructure, Inc.  
 4600 E. WASHINGTON STREET, SUITE 600  
 PHOENIX, ARIZONA 85034  
 PHONE: 602-733-6000  
 FAX: 602-733-6100

**MID-BLOCK CROSSING DETAIL**  
 KINGMAN DOWNTOWN INFRASTRUCTURE  
 BEALE ST - 1ST ST TO 6TH ST  
 KINGMAN, ARIZONA

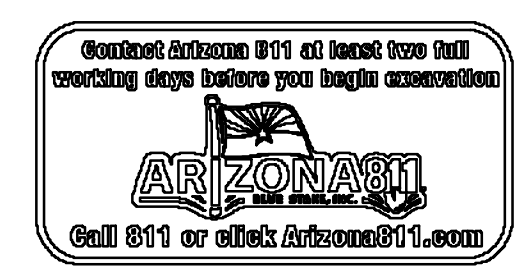
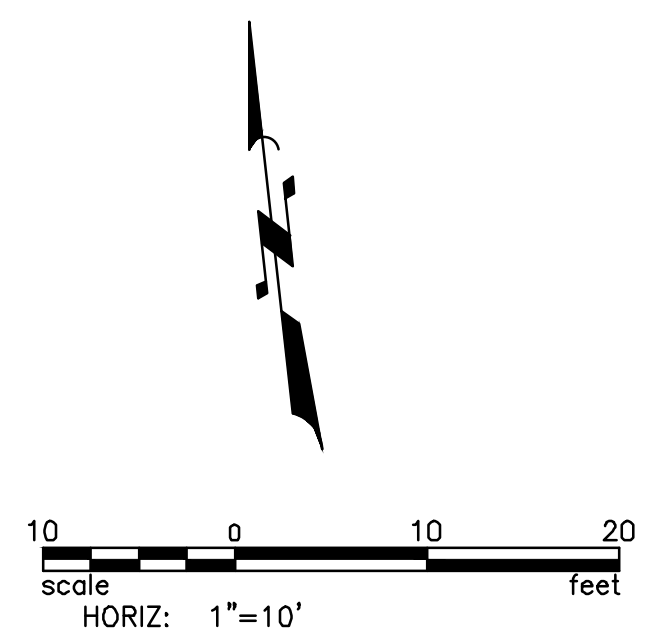
DESIGNED BY: HMR  
 DRAWN BY: AA  
 CHECKED BY: DY  
 DATE: JUNE 2023



EXPIRES: 9/30/2024

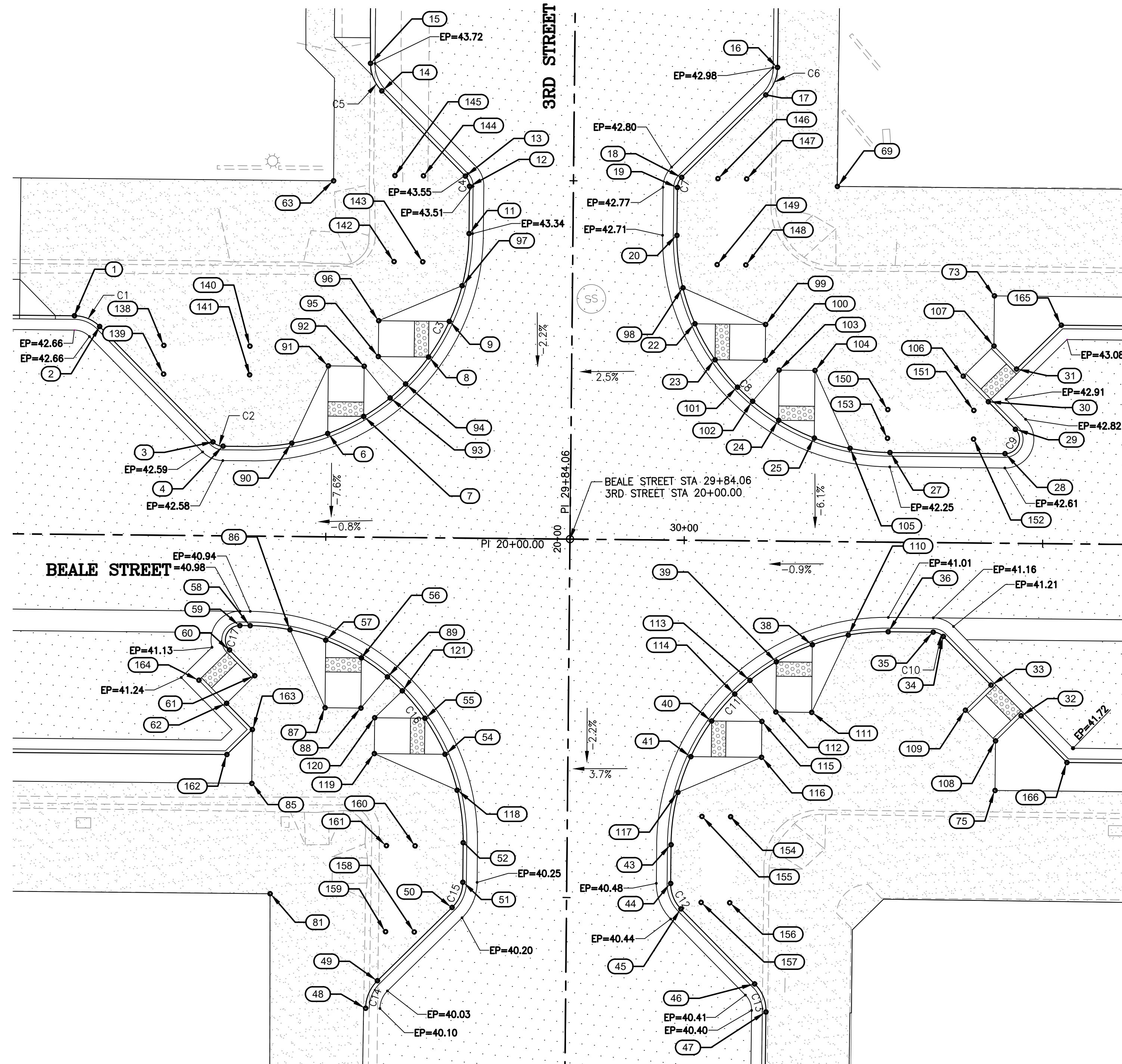
PROJECT NO.  
3720205006

DRAWING NAME  
**DT06**  
SHEET NO. 11 of 63



File: C:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-DT04.dwg

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**BEALE STREET AND 3RD STREET INTERSECTION**

BACK OF CURB STAKING TABLE

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE ST/29+14.64	30.50, LT	3343.34
2	BEALE ST/29+18.18	29.04, LT	3343.34
3	BEALE ST/29+34.13	13.09, LT	3343.27
4	BEALE ST/29+35.54	12.50, LT	3343.26
6	BEALE ST/29+50.13	14.42, LT	3343.21
7	BEALE ST/29+55.13	16.84, LT	3343.16
8	BEALE ST/29+64.09	25.21, LT	3343.16
9	BEALE ST/29+66.94	30.21, LT	3343.21
11	BEALE ST/29+69.58	42.49, LT	3343.34
12	BEALE ST/29+69.58	49.09, LT	3343.51
13	BEALE ST/29+68.99	50.51, LT	3343.55
14	BEALE ST/29+57.22	62.28, LT	3343.65
15	BEALE ST/29+55.61	66.11, LT	3343.81
16	BEALE ST/30+12.39	66.08, LT	3343.66
17	BEALE ST/30+10.78	62.23, LT	3343.63
18	BEALE ST/29+99.16	50.61, LT	3343.48
19	BEALE ST/29+98.58	49.20, LT	3343.45
20	BEALE ST/29+98.58	42.51, LT	3343.39
22	BEALE ST/30+01.21	30.21, LT	3343.10
23	BEALE ST/30+04.06	25.20, LT	3343.05
24	BEALE ST/30+13.01	16.85, LT	3343.09
25	BEALE ST/30+18.01	14.42, LT	3343.03
27	BEALE ST/30+28.58	12.50, LT	3342.93

BACK OF CURB STAKING TABLE

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
28	BEALE ST/30+44.63	12.50, LT	3343.29
29	BEALE ST/30+46.04	15.91, LT	3343.50
30	BEALE ST/30+42.24	19.72, LT	3343.58
31	BEALE ST/30+46.13	24.32, LT	3343.66
32	BEALE ST/30+47.22	24.05, RT	3342.01
33	BEALE ST/30+42.98	19.80, RT	3342.03
34	BEALE ST/30+36.27	13.09, RT	3341.80
35	BEALE ST/30+34.85	12.50, RT	3341.75
36	BEALE ST/30+28.57	12.50, RT	3341.60
38	BEALE ST/30+18.01	14.42, RT	3341.41
39	BEALE ST/30+13.01	16.85, RT	3341.37
40	BEALE ST/30+04.07	25.18, RT	3341.35
41	BEALE ST/30+01.21	30.18, RT	3341.20
43	BEALE ST/29+98.57	42.50, RT	3341.10
44	BEALE ST/29+98.57	47.90, RT	3341.06
45	BEALE ST/30+00.03	51.44, RT	3341.03
46	BEALE ST/30+10.41	61.81, RT	3341.00
47	BEALE ST/30+12.02	65.71, RT	3341.48
48	BEALE ST/29+56.18	65.72, RT	3340.64
49	BEALE ST/29+57.79	61.86, RT	3340.79
50	BEALE ST/29+68.10	51.54, RT	3340.96
51	BEALE ST/29+69.57	48.01, RT	3341.01
52	BEALE ST/29+69.57	42.50, RT	3341.08

BACK OF CURB STAKING TABLE

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
54	BEALE ST/29+66.92	30.18, RT	3341.23
55	BEALE ST/29+64.06	25.18, RT	3341.33
56	BEALE ST/29+55.13	16.85, RT	3341.37
57	BEALE ST/29+50.13	14.42, RT	3341.41
58	BEALE ST/29+39.57	12.50, RT	3341.71
59	BEALE ST/29+38.13	12.50, RT	3341.75
60	BEALE ST/29+36.72	15.91, RT	3341.90
61	BEALE ST/29+40.28	19.47, RT	3341.26
62	BEALE ST/29+36.39	23.36, RT	3341.49
63	BEALE ST/29+50.61	49.67, LT	3343.52
69	BEALE ST/30+20.89	49.55, LT	3343.63
73	BEALE ST/30+42.94	34.50, LT	3343.75
75	BEALE ST/30+43.69	34.50, RT	3342.10
81	BEALE ST/29+42.70	49.87, RT	3341.67
85	BEALE ST/29+40.01	34.50, RT	3341.36
86	BEALE ST/29+45.13	13.02, RT	3341.56
87	BEALE ST/29+50.13	23.85, RT	3341.42
88	BEALE ST/29+55.13	23.85, RT	3341.36
89	BEALE ST/29+58.78	19.46, RT	3341.35
90	BEALE ST/29+45.13	13.02, RT	3343.23
91	BEALE ST/29+50.13	23.85, LT	3343.22
92	BEALE ST/29+55.13	23.84, LT	3343.16
93	BEALE ST/29+58.79	19.46, LT	3343.16

BACK OF CURB STAKING TABLE

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
94	BEALE ST/29+60.93	21.43, LT	3343.16
95	BEALE ST/29+57.09	25.21, LT	3343.16
96	BEALE ST/29+57.09	30.21, LT	3343.21
97	BEALE ST/29+68.68	35.21, LT	3343.26
98	BEALE ST/29+99.49	35.21, LT	3343.22
99	BEALE ST/30+11.06	30.20, LT	3343.11
100	BEALE ST/30+11.06	25.20, LT	3343.05
101	BEALE ST/30+07.23	21.42, LT	3343.06
102	BEALE ST/30+09.35	19.47, LT	3343.07
103	BEALE ST/30+13.01	23.85, LT	3343.09
104	BEALE ST/30+18.01	23.85, LT	3343.03
105	BEALE ST/30+23.01	13.04, LT	3342.98
106	BEALE ST/30+38.70	23.26, LT	3343.57
107	BEALE ST/30+42.94	27.50, LT	3343.67
108	BEALE ST/30+43.69	27.58, RT	3341.97
109	BEALE ST/30+39.45	23.34, RT	3341.89
110	BEALE ST/30+23.01	13.01, RT	3341.50
111	BEALE ST/30+18.01	23.85, RT	3341.41
112	BEALE ST/30+13.01	23.85, RT	3341.37
113	BEALE ST/30+09.35	19.47, RT	3341.36
114	BEALE ST/30+07.25	21.40, RT	3341.35
115	BEALE ST/30+11.07	25.18, RT	3341.34
116	BEALE ST/30+11.07	30.18, RT	3341.20

BACK OF CURB STAKING TABLE

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
117	BEALE ST/29+99.46	35.18, RT	3341.16
118	BEALE ST/29+68.66	35.18, RT	3341.17
119	BEALE ST/29+57.06	30.18, RT	3341.23
120	BEALE ST/29+57.06	25.18, RT	3341.35
121	BEALE ST/29+60.88	21.39, RT	3341.35
138	BEALE ST/29+27.16	26.49, LT	3343.33
139	BEALE ST/29+27.16	22.49, LT	3343.31
140	BEALE ST/29+39.16	26.49, LT	3343.30
141	BEALE ST/29+39.16	22.49, LT	3343.27
142	BEALE ST/29+59.16	38.49, LT	3343.32
143	BEALE ST/29+63.16	38.49, LT	3343.31
144	BEALE ST/29+63.14	50.49, LT	3343.52
145	BEALE ST/29+59.16	50.49, LT	3343.50
146	BEALE ST/30+04.23	50.48, LT	3343.52
147	BEALE ST/30+08.23	50.48, LT	3343.57
148	BEALE ST/30+08.22	38.48, LT	3343.40
149	BEALE ST/30+04.23	38.49, LT	3343.36
150	BEALE ST/30+28.22	18.49, LT	3343.14
151	BEALE ST/30+40.22	18.49, LT	3343.47
152	BEALE ST/30+40.22	14.49, LT	3343.28
153	BEALE ST/30+28.22	14.49, LT	3343.01
154	BEALE ST/30+06.85	38.51, RT	3341.13
155	BEALE ST/30+02.84	38.51, RT	3341.13

BACK OF CURB STAKING TABLE

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
156	BEALE ST/30+06.82	50.51, RT	3341.04
157	BEALE ST/30+02.84	50.51, RT	3341.04
158	BEALE ST/29+62.86	55.01, RT	3340.91
159	BEALE ST/29+58.86	55.01, RT	3340.92
160	BEALE ST/29+62.86	42.99, RT	3341.07
161	BEALE ST/29+58.86	43.01, RT	3341.07
162	BEALE ST/29+36.50	30.50, RT	3342.13
163	BEALE ST/29+40.01	26.98, RT	3341.42
164	BEALE ST/29+32.50	20.18, RT	3341.80
165	BEALE ST/30+52.31	30.50, LT	3343.78
166	BEALE ST/30+53.68	30.50, RT	3342.22

CURVE TABLE

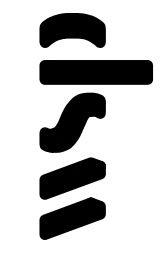
CURVE #	LENGTH	RADIUS	DELTA
C1	3.93	5.00	45°00'09"
C2	1.57	2.00	45°00'09"
C3	47.11	30.00	89°58'50"
C4	1.57	2.00	45°01'30"
C5	4.26	5.50	44°20'21"
C6	4.29	5.50	44°38'19"
C7	1.57	2.00	44°58'30"
C8	47.13	30.00	90°01'08"
C9	4.71	2.00	134°59'54"

CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA
C10	1.57	2.00	45°00'06"
C11	47.13	30.00	90°00'23"
C12	3.93	5.00	45°00'00"
C13	4.33	5.50	45°08'00"
C14	4.29	5.50	44°41'01"
C15	3.93	5.00	45°00'00"
C16	47.12	30.00	89°59'40"
C17	4.71	2.00	134°59'51"

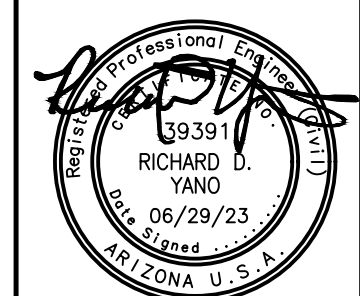
REVISIONS:

WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100



INTERSECTION DETAIL  
KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023

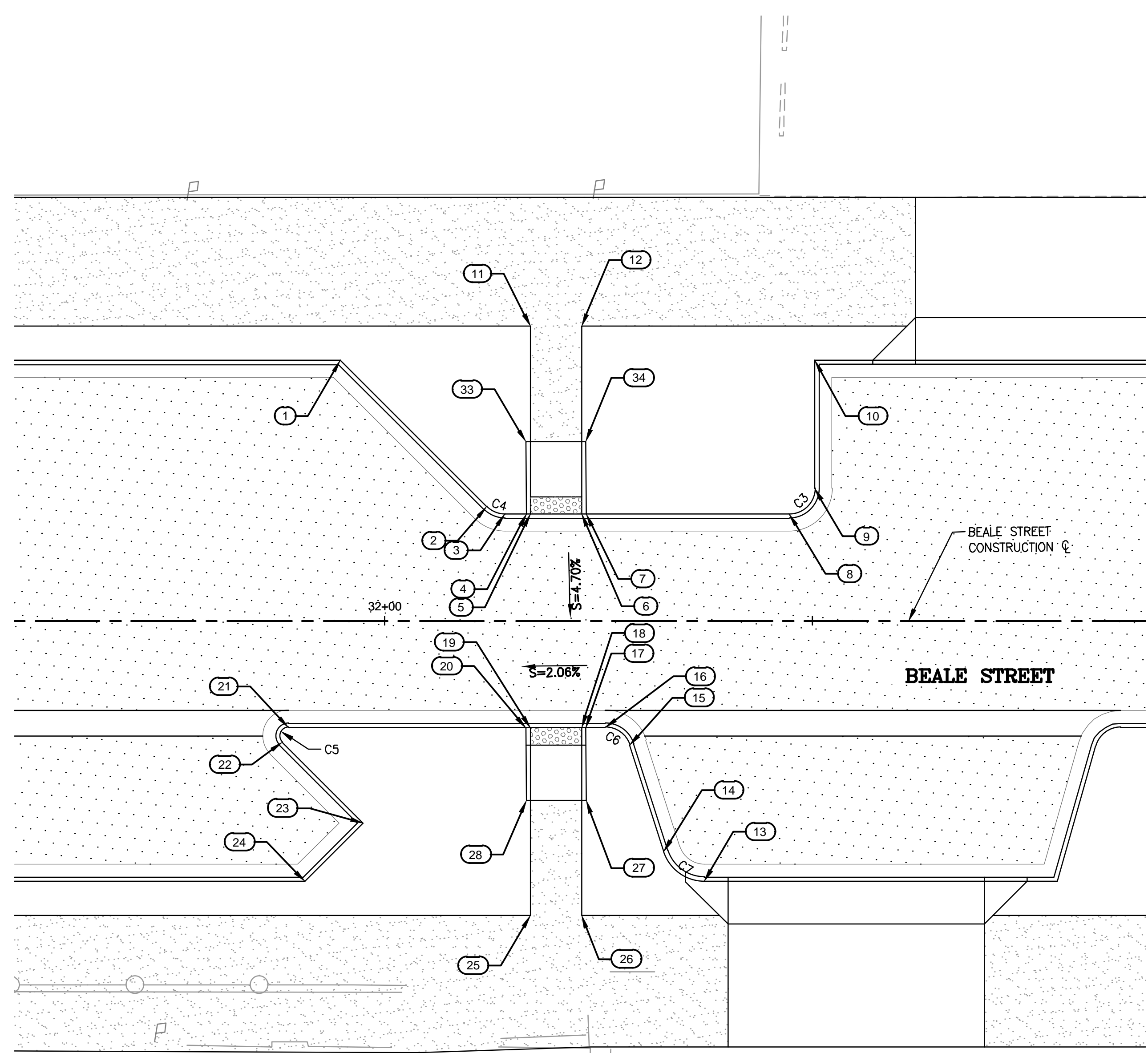


EXPIRES: 9/30/2024

PROJECT NO.  
3720205006

DRAWING NAME  
**DT07**  
SHEET NO. 12 of 63

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**MID-BLOCK CROSSING BETWEEN 3RD STREET AND 4TH STREET**

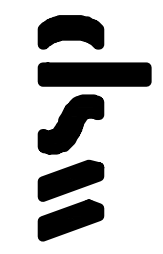
BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE ST/31+94.80	30.50, LT	3345.99
2	BEALE ST/32+11.92	13.38, LT	3345.73
3	BEALE ST/32+14.04	12.50, LT	3345.78
4	BEALE ST/32+16.55	12.50, LT	3345.85
5	BEALE ST/32+17.01	12.50, LT	3345.86
6	BEALE ST/32+23.01	12.50, LT	3346.02
7	BEALE ST/32+23.55	12.50, LT	3346.03
8	BEALE ST/32+47.30	12.50, LT	3346.66
9	BEALE ST/32+50.30	15.50, LT	3346.97
10	BEALE ST/32+50.30	30.50, LT	3347.50
11	BEALE ST/32+17.01	34.50, LT	3346.82
12	BEALE ST/32+23.01	34.50, LT	3347.09
13	BEALE ST/32+37.38	30.50, RT	3345.21
14	BEALE ST/32+32.62	27.03, RT	3345.11
15	BEALE ST/32+28.62	14.58, RT	3344.92
16	BEALE ST/32+25.76	12.50, RT	3344.78
17	BEALE ST/32+23.49	12.53, RT	3344.72

BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
18	BEALE ST/32+23.00	12.53, RT	3344.71
19	BEALE ST/32+17.00	12.53, RT	3344.57
20	BEALE ST/32+16.49	12.53, RT	3344.56
21	BEALE ST/31+88.70	12.50, RT	3343.90
22	BEALE ST/31+88.00	14.21, RT	3344.11
23	BEALE ST/31+97.45	23.66, RT	3344.30
24	BEALE ST/31+90.62	30.50, RT	3344.34
25	BEALE ST/32+17.00	34.50, RT	3344.84
26	BEALE ST/32+23.00	34.50, RT	3344.93
27	BEALE ST/32+23.54	21.03, RT	3344.78
28	BEALE ST/32+16.54	21.03, RT	3344.62
33	BEALE ST/32+16.49	20.97, LT	3346.22
34	BEALE ST/32+23.50	20.98, LT	3346.45

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C3	4.71	3.00	89°59'54"
C4	2.36	3.00	45°00'06"
C5	2.36	1.00	134°59'54"
C6	3.78	3.00	72°11'32"
C7	6.30	5.00	72°11'32"

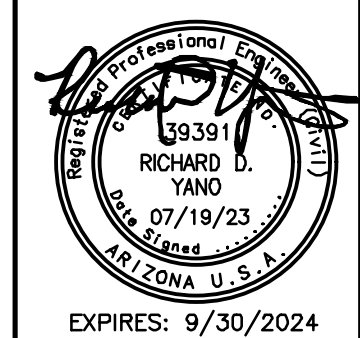
REVISIONS:

WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100



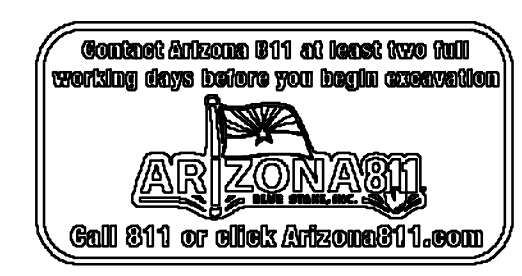
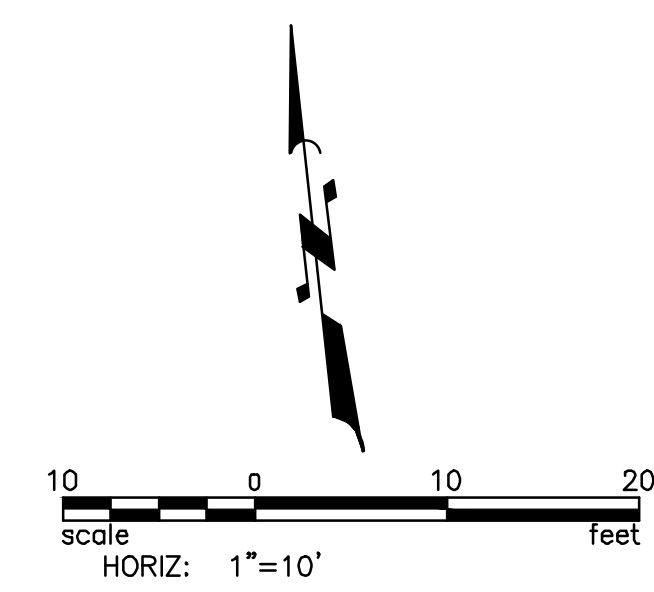
**MID-BLOCK CROSSING DETAIL**  
KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023



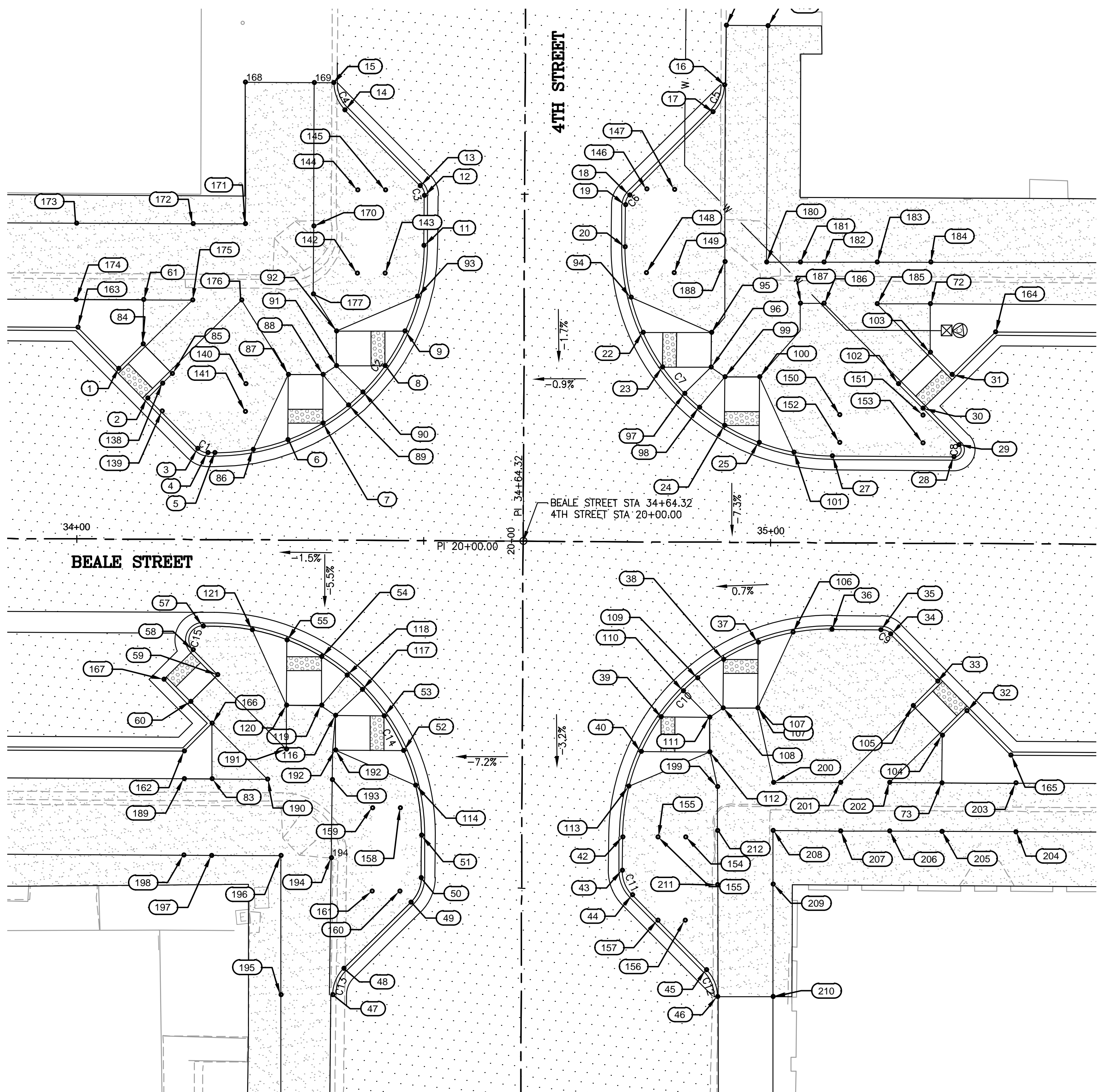
PROJECT NO.  
3720205006

DRAWING NAME  
**DT08**  
SHEET NO. 13 of 63



File: C:\Infrastructure\Trans\Projects\2020\3720205006\Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-DT08.dwg

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**BEALE STREET AND 4TH STREET INTERSECTION**

CURVE #	LENGTH	RADIUS	DELTA
C1	1.57	2.00	45°00'06"
C2	47.14	30.00	90°02'03"
C3	1.57	2.00	44°58'19"
C4	4.33	5.50	45°08'10"
C5	4.32	5.50	45°02'17"
C6	1.57	2.00	45°01'41"
C7	47.10	30.00	89°57'48"
C8	2.36	1.00	134°59'39"

CURVE #	LENGTH	RADIUS	DELTA
C9	1.57	2.00	44°59'58"
C10	47.15	30.00	90°03'25"
C11	3.92	5.00	44°57'06"
C12	4.29	5.50	44°41'06"
C13	4.28	5.50	44°34'09"
C14	47.10	30.00	89°56'43"
C15	4.71	2.00	134°59'54"

BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE ST/34+05.87	24.59, LT	3349.88
2	BEALE ST/34+10.12	20.35, LT	3349.98
3	BEALE ST/34+17.38	13.09, LT	3350.14
4	BEALE ST/34+18.79	12.50, LT	3350.17
5	BEALE ST/34+19.79	12.50, LT	3350.19
6	BEALE ST/34+30.37	14.43, LT	3350.63
7	BEALE ST/34+35.37	16.86, LT	3350.68
8	BEALE ST/34+44.27	25.16, LT	3350.72
9	BEALE ST/34+47.14	30.16, LT	3350.76
11	BEALE ST/34+49.79	42.52, LT	3351.26
12	BEALE ST/34+49.79	49.70, LT	3350.93
13	BEALE ST/34+49.20	51.11, LT	3350.93
14	BEALE ST/34+38.30	62.01, LT	3351.85
15	BEALE ST/34+36.69	65.91, LT	3351.28
16	BEALE ST/34+92.98	65.87, LT	3352.38
17	BEALE ST/34+91.37	61.98, LT	3352.50
18	BEALE ST/34+79.37	49.98, LT	3352.16
19	BEALE ST/34+78.79	48.56, LT	3352.11
20	BEALE ST/34+78.79	42.48, LT	3351.99
22	BEALE ST/34+81.43	30.19, LT	3351.56
23	BEALE ST/34+84.29	25.19, LT	3351.52
24	BEALE ST/34+93.27	16.83, LT	3351.52
25	BEALE ST/34+98.27	14.41, LT	3351.57
27	BEALE ST/35+08.79	12.50, LT	3351.03
28	BEALE ST/35+26.32	12.50, LT	3351.73
29	BEALE ST/35+27.03	14.21, LT	3351.88
30	BEALE ST/35+21.82	19.41, LT	3352.15
31	BEALE ST/35+26.01	24.31, LT	3352.41
32	BEALE ST/35+28.39	24.13, RT	3349.61
33	BEALE ST/35+24.15	19.88, RT	3349.59
34	BEALE ST/35+17.35	13.09, RT	3349.56
35	BEALE ST/35+15.93	12.50, RT	3349.56
36	BEALE ST/35+08.86	12.50, RT	3349.54
37	BEALE ST/34+98.27	14.43, RT	3349.35
38	BEALE ST/34+93.27	16.87, RT	3349.31
39	BEALE ST/34+84.33	25.23, RT	3349.27
40	BEALE ST/34+81.48	30.23, RT	3349.23
42	BEALE ST/34+78.86	42.53, RT	3349.02
43	BEALE ST/34+78.87	47.38, RT	3348.93
44	BEALE ST/34+80.33	50.92, RT	3348.81
45	BEALE ST/34+91.03	61.61, RT	3348.39
46	BEALE ST/34+92.64	65.47, RT	3348.77
47	BEALE ST/34+37.21	65.52, RT	3348.12
48	BEALE ST/34+38.82	61.68, RT	3347.98
49	BEALE ST/34+48.40	52.09, RT	3348.70
50	BEALE ST/34+49.87	48.55, RT	3348.93
51	BEALE ST/34+49.86	42.47, RT	3349.02
52	BEALE ST/34+47.25	30.26, RT	3348.97
53	BEALE ST/34+44.41	25.26, RT	3348.89
54	BEALE ST/34+35.37	16.82, RT	3348.85
55	BEALE ST/34+30.37	14.40, RT	3348.78
57	BEALE ST/34+18.25	12.50, RT	3348.72
58	BEALE ST/34+16.84	15.91, RT	3348.77
59	BEALE ST/34+20.41	19.49, RT	3348.77
60	BEALE ST/34+16.52	23.37, RT	3348.85
61	BEALE ST/34+09.41	34.50, LT	3350.52
72	BEALE ST/35+22.83	34.50, LT	3352.35
73	BEALE ST/35+24.85	34.50, RT	3349.79
83	BEALE ST/34+19.65	34.50, RT	3349.02
84	BEALE ST/34+09.41	28.13, LT	3350.31

BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
85	BEALE ST/34+13.65	23.89, LT	3350.29
86	BEALE ST/34+25.37	13.02, LT	3350.42
87	BEALE ST/34+30.37	23.86, LT	3350.63
88	BEALE ST/34+35.37	23.86, LT	3350.67
89	BEALE ST/34+39.03	19.48, LT	3350.69
90	BEALE ST/34+41.09	21.37, LT	3350.70
91	BEALE ST/34+37.27	25.15, LT	3350.71
92	BEALE ST/34+37.27	30.15, LT	3350.76
93	BEALE ST/34+48.88	35.16, LT	3350.96
94	BEALE ST/34+79.70	35.19, LT	3351.74
95	BEALE ST/34+91.28	30.20, LT	3351.57
96	BEALE ST/34+91.29	25.20, LT	3351.52
97	BEALE ST/34+87.46	21.41, LT	3351.52
98	BEALE ST/34+89.61	19.43, LT	3351.52
99	BEALE ST/34+93.27	23.83, LT	3351.52
100	BEALE ST/34+98.27	23.83, LT	3351.56
101	BEALE ST/35+03.27	13.01, LT	3351.31
102	BEALE ST/35+18.29	22.95, LT	3352.19
103	BEALE ST/35+22.83	27.49, LT	3352.33
104	BEALE ST/35+24.85	27.66, RT	3349.62
105	BEALE ST/35+20.61	23.42, RT	3349.59
106	BEALE ST/35+03.27	12.91, RT	3349.44
107	BEALE ST/34+98.27	23.87, RT	3349.35
108	BEALE ST/34+93.27	23.87, RT	3349.31
109	BEALE ST/34+89.58	19.59, RT	3349.30
110	BEALE ST/34+87.51	21.44, RT	3349.29
111	BEALE ST/34+91.33	25.22, RT	3349.27
112	BEALE ST/34+91.34	30.22, RT	3349.23
113	BEALE ST/34+79.74	35.23, RT	3349.15
114	BEALE ST/34+48.97	35.26, RT	3348.99
116	BEALE ST/34+37.41	25.27, RT	3348.89
117	BEALE ST/34+41.27	21.48, RT	3348.87
118	BEALE ST/34+39.02	19.42, RT	3348.86
119	BEALE ST/34+35.37	23.82, RT	3348.85
120	BEALE ST/34+30.37	23.82, RT	3348.78
121	BEALE ST/34+25.37	13.01, RT	3348.75
138	BEALE ST/34+12.21	22.48, LT	3350.17
139	BEALE ST/34+12.21	18.48, LT	3350.03
140	BEALE ST/34+24.21	22.47, LT	3350.51
141	BEALE ST/34+24.21	18.47, LT	3350.44
142	BEALE ST/34+40.21	38.47, LT	3350.95
143	BEALE ST/34+44.21	38.47, LT	3351.01
144	BEALE ST/34+40.21	50.47, LT	3351.03
145	BEALE ST/34+44.21	50.47, LT	3351.05
146	BEALE ST/34+81.84	50.79, LT	3352.21
147	BEALE ST/34+85.84	50.79, LT	3352.30
148	BEALE ST/34+81.84	38.79, LT	3351.95
149	BEALE ST/34+85.84	38.80, LT	3352.06
150	BEALE ST/35+09.84	18.47, LT	3351.55
151	BEALE ST/35+21.84	18.47, LT	3352.06
152	BEALE ST/35+09.84	14.47, LT	3351.20
153	BEALE ST/35+21.84	14.47, LT	3351.72
154	BEALE ST/34+87.98	42.52, RT	3349.40
155	BEALE ST/34+83.98	42.52, RT	3349.24
156	BEALE ST/34+87.93	54.52, RT	3348.89
157	BEALE ST/34+83.98	54.52, RT	3348.67
158	BEALE ST/34+46.82	38.52, RT	3349.00
159	BEALE ST/34+42.82	38.52, RT	3349.00
160	BEALE ST/34+46.82	50.52, RT	3348.81
161	BEALE ST/34+42.82	50.52, RT	3348.82

BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
162	BEALE ST/34+15.65	30.50, RT	3348.92
163	BEALE ST/33+99.97	30.50, LT	3350.39
164	BEALE ST/35+32.21	30.50, LT	3352.72
165	BEALE ST/35+34.76	30.50, RT	3349.71
166	BEALE ST/34+19.65	26.50, RT	3348.88
167	BEALE ST/34+12.63	20.19, RT	3348.81
168	BEALE ST/34+23.96	65.91, LT	3351.92
169	BEALE ST/34+33.89	65.91, LT	3351.85
170	BEALE ST/34+33.90	45.26, LT	3350.89
171	BEALE ST/34+24.07	45.50, LT	3350.95
172	BEALE ST/34+16.53	45.50, LT	3350.94
173	BEALE ST/33+99.72	45.50, LT	3350.32
174	BEALE ST/33+99.72	34.50, LT	3350.16
175	BEALE ST/34+16.49	34.50, LT	3350.78
176	BEALE ST/34+23.56	34.50, LT	3350.79
177	BEALE ST/34+33.90	35.41, LT	3350.87
178	BEALE ST/34+93.19	74.47, LT	3352.00
179	BEALE ST/34+99.19	74.47, LT	3352.59
180	BEALE ST/34+99.21	40.42, LT	3352.45
181	BEALE ST/35+04.04	40.44, LT	3352.23
182	BEALE ST/35+07.46	40.45, LT	3352.25
183	BEALE ST/35+15.11	40.46, LT	3352.36
184	BEALE ST/35+22.81	40.48, LT	3352.44
185	BEALE ST/35+15.13	34.48, LT	3352.27
186	BEALE ST/35+07.48	34.47, LT	3352.14
187	BEALE ST/35+04.06	34.47, LT	3352.14
188	BEALE ST/34+93.18	40.40, LT	3352.35
189	BEALE ST/34+15.65	34.50, RT	3348.98
190	BEALE ST/34+27.64	34.50, RT	3349.09
191	BEALE ST/34+30.37	30.15, RT	3349.02
192	BEALE ST/34+37.42	30.27, RT	3348.97
193	BEALE ST/34+37.01	34.50, RT	3348.99
194	BEALE ST/34+36.92	45.76, RT	3349.01
195	BEALE ST/34+29.76	65.57, RT	3348.23
196	BEALE ST/34+29.64	45.50, RT	3349.11
197	BEALE ST/34+19.64	45.50, RT	3349.04
198	BEALE ST/34+15.65	45.50, RT	3349.15
199	BEALE ST/34+92.51	35.21, RT	3349.50
200	BEALE ST/35+00.60	34.56, RT	3349.62
201	BEALE ST/35+10.24	34.50, RT	3349.78
202	BEALE ST/35+17.31	34.50, RT	3349.84
203	BEALE ST/35+35.52	34.50, RT	3349.72
204	BEALE ST/35+35.51	41.50, RT	3349.83
205	BEALE ST/35+24.85	41.50, RT	3349.89
206	BEALE ST/35+17.31	41.50, RT	3349.94
207	BEALE ST/35+10.24	41.50, RT	3349.88
208	BEALE ST/35+00.54	41.50, RT	3349.70
209	BEALE ST/35+00.57	49.27, RT	3349.70
210	BEALE ST/35+00.64	65.44, RT	3349.55
211	BEALE ST/34+92.60	49.33, RT	3349.57
212	BEALE ST/34+92.56	41.56, RT	3349.60

REVISIONS:

WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
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FAX: 602-733-6100

**INTERSECTION DETAIL**  
KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023

EXPIRES: 9/30/2024

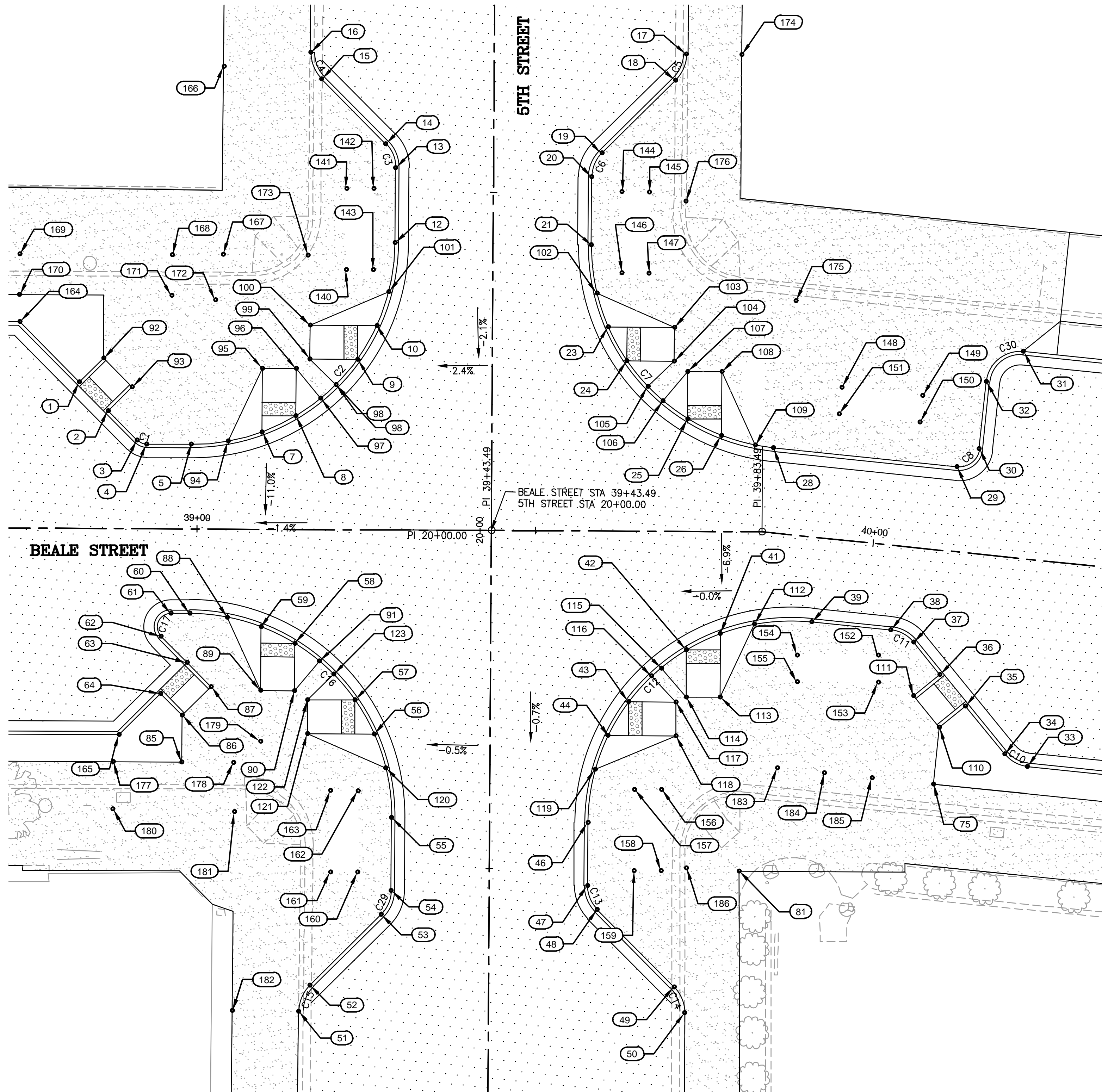
PROJECT NO. 3720205006

DRAWING NAME **DT09**  
SHEET NO. 14 of 63

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**BEALE STREET AND 5TH STREET INTERSECTION**

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE ST/38+82.50	21.65, LT	3354.03
2	BEALE ST/38+86.74	17.41, LT	3354.04
3	BEALE ST/38+91.07	13.09, LT	3354.06
4	BEALE ST/38+92.48	12.50, LT	3354.06
5	BEALE ST/38+99.03	12.50, LT	3354.08
7	BEALE ST/39+09.51	14.39, LT	3355.58
8	BEALE ST/39+14.51	16.80, LT	3355.63
9	BEALE ST/39+23.55	25.21, LT	3355.67
10	BEALE ST/39+26.40	30.21, LT	3355.71
12	BEALE ST/39+29.03	42.47, LT	3355.79
13	BEALE ST/39+29.04	53.57, LT	3356.34
14	BEALE ST/39+27.57	57.11, LT	3356.34
15	BEALE ST/39+18.04	66.64, LT	3356.91
16	BEALE ST/39+16.43	70.57, LT	3356.97
17	BEALE ST/39+71.97	70.58, LT	3356.58
18	BEALE ST/39+70.36	66.72, LT	3356.46
19	BEALE ST/39+59.52	55.88, LT	3355.45
20	BEALE ST/39+58.05	52.35, LT	3355.45
21	BEALE ST/39+58.04	42.29, LT	3355.18
23	BEALE ST/39+60.58	30.17, LT	3354.82
24	BEALE ST/39+63.38	25.17, LT	3354.63
25	BEALE ST/39+72.40	16.66, LT	3354.63
26	BEALE ST/39+77.40	14.21, LT	3354.82
28	BEALE ST/39+83.90	12.50, LT	3354.35

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
29	BEALE ST/40+11.14	12.50, LT	3354.52
30	BEALE ST/40+14.14	15.50, LT	3354.52
31	BEALE ST/40+19.14	30.50, LT	3355.02
32	BEALE ST/40+14.14	25.50, LT	3354.88
33	BEALE ST/40+26.03	30.50, RT	3352.63
34	BEALE ST/40+22.50	29.04, RT	3352.63
35	BEALE ST/40+16.02	22.56, RT	3352.77
36	BEALE ST/40+11.78	18.32, RT	3353.18
37	BEALE ST/40+07.42	13.96, RT	3353.50
38	BEALE ST/40+03.89	12.50, RT	3353.50
39	BEALE ST/39+92.13	12.50, RT	3353.39
41	BEALE ST/39+77.39	15.06, RT	3353.05
42	BEALE ST/39+72.36	17.50, RT	3352.99
43	BEALE ST/39+63.88	25.22, RT	3352.97
44	BEALE ST/39+60.87	30.21, RT	3352.92
46	BEALE ST/39+57.94	43.11, RT	3352.58
47	BEALE ST/39+57.93	52.44, RT	3352.30
48	BEALE ST/39+59.39	55.98, RT	3352.30
49	BEALE ST/39+70.79	67.37, RT	3351.80
50	BEALE ST/39+72.40	71.20, RT	3351.80
51	BEALE ST/39+15.36	71.26, RT	3351.64
52	BEALE ST/39+16.97	67.40, RT	3351.55
53	BEALE ST/39+27.48	56.89, RT	3352.18
54	BEALE ST/39+28.94	53.36, RT	3352.18

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
55	BEALE ST/39+28.95	42.53, RT	3352.72
56	BEALE ST/39+26.31	30.18, RT	3352.69
57	BEALE ST/39+23.45	25.18, RT	3352.67
58	BEALE ST/39+14.51	16.85, RT	3352.64
59	BEALE ST/39+09.51	14.42, RT	3352.63
60	BEALE ST/38+98.95	12.50, RT	3352.60
61	BEALE ST/38+96.18	12.50, RT	3352.59
62	BEALE ST/38+94.76	15.91, RT	3352.57
63	BEALE ST/38+98.63	19.78, RT	3352.55
64	BEALE ST/38+94.74	24.38, RT	3352.53
75	BEALE ST/40+12.48	34.50, RT	3352.70
81	BEALE ST/39+80.33	50.19, RT	3352.69
85	BEALE ST/38+97.92	34.50, RT	3352.64
86	BEALE ST/38+97.92	27.56, RT	3352.58
87	BEALE ST/39+02.17	23.32, RT	3352.57
88	BEALE ST/39+04.51	13.02, RT	3352.61
89	BEALE ST/39+09.51	23.85, RT	3352.60
90	BEALE ST/39+14.51	23.85, RT	3352.63
91	BEALE ST/39+18.17	19.46, RT	3352.65
92	BEALE ST/38+86.04	25.19, LT	3355.60
93	BEALE ST/38+90.28	20.95, LT	3355.48
94	BEALE ST/39+04.51	13.01, LT	3354.87
95	BEALE ST/39+09.51	23.80, LT	3355.58
96	BEALE ST/39+14.51	23.80, LT	3355.63

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
97	BEALE ST/39+18.16	19.39, LT	3355.64
98	BEALE ST/39+20.38	21.43, LT	3355.65
99	BEALE ST/39+16.55	25.22, LT	3355.67
100	BEALE ST/39+16.55	30.22, LT	3355.72
101	BEALE ST/39+28.13	35.21, LT	3355.74
102	BEALE ST/39+58.89	35.17, LT	3354.97
103	BEALE ST/39+70.39	30.16, LT	3354.83
104	BEALE ST/39+70.38	25.16, LT	3354.63
105	BEALE ST/39+66.49	21.39, LT	3354.63
106	BEALE ST/39+68.73	19.29, LT	3354.63
107	BEALE ST/39+72.40	23.66, LT	3354.63
108	BEALE ST/39+77.40	23.66, LT	3354.83
109	BEALE ST/39+82.40	12.79, LT	3354.52
110	BEALE ST/40+12.48	26.09, RT	3353.05
111	BEALE ST/40+08.24	21.85, RT	3353.17
112	BEALE ST/39+82.39	13.66, RT	3353.18
113	BEALE ST/39+77.39	24.49, RT	3353.08
114	BEALE ST/39+72.39	24.48, RT	3353.00
115	BEALE ST/39+68.69	20.24, RT	3352.98
116	BEALE ST/39+67.28	21.41, RT	3352.98
117	BEALE ST/39+70.88	25.23, RT	3353.10
118	BEALE ST/39+70.88	30.23, RT	3352.80
119	BEALE ST/39+59.01	35.21, RT	3352.78
120	BEALE ST/39+28.05	35.18, RT	3352.70

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
121	BEALE ST/39+16.44	30.17, RT	3352.68
122	BEALE ST/39+16.45	25.17, RT	3352.64
123	BEALE ST/39+20.27	21.39, RT	3352.66
140	BEALE ST/39+21.82	38.48, LT	3355.83
141	BEALE ST/39+21.82	50.48, LT	3356.17
142	BEALE ST/39+25.82	50.48, LT	3356.18
143	BEALE ST/39+25.82	38.48, LT	3355.79
144	BEALE ST/39+62.54	50.17, LT	3355.46
145	BEALE ST/39+66.54	50.16, LT	3355.53
146	BEALE ST/39+62.54	38.17, LT	3355.09
147	BEALE ST/39+66.54	38.16, LT	3355.12
148	BEALE ST/39+93.03	22.47, LT	3354.88
149	BEALE ST/40+05.03	22.47, LT	3354.89
150	BEALE ST/40+05.03	18.50, LT	3354.74
151	BEALE ST/39+93.03	18.50, LT	3354.70
152	BEALE ST/40+02.45	16.42, RT	3353.34
153	BEALE ST/40+02.85	20.40, RT	3353.20
154	BEALE ST/39+90.51	17.60, RT	3353.24
155	BEALE ST/39+90.91	21.57, RT	3353.12
156	BEALE ST/39+68.83	38.18, RT	3352.71
157	BEALE ST/39+64.83	38.18, RT	3352.71
158	BEALE ST/39+68.83	50.18, RT	3352.48
159	BEALE ST/39+64.83	50.19, RT	3352.44
160	BEALE ST/39+23.95	50.65, RT	3352.38

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
161	BEALE ST/39+19.95	50.66, RT	3352.43
162	BEALE ST/39+23.94	38.59, RT	3352.72
163	BEALE ST/39+19.95	38.59, RT	3352.72
164	BEALE ST/38+73.66	30.50, LT	3355.03
165	BEALE ST/38+88.82	30.50, RT	3353.41
166	BEALE ST/39+03.61	68.40, LT	3357.01
167	BEALE ST/39+03.61	40.61, LT	3356.11
168	BEALE ST/38+96.13	40.50, LT	3356.13
169	BEALE ST/38+73.56	40.50, LT	3356.15
170	BEALE ST/38+73.56	34.50, LT	3356.06
171	BEALE ST/38+96.05	34.50, LT	3356.04
172	BEALE ST/39+02.51	33.89, LT	3356.02
173	BEALE ST/39+16.20	40.55, LT	3355.93
174	BEALE ST/39+80.10	70.53, LT	3356.68
175	BEALE ST/39+84.93	34.50, LT	3355.44
176	BEALE ST/39+72.00	48.82, LT	3355.55
177	BEALE ST/38+87.76	34.50, RT	3352.77
178	BEALE ST/39+05.57	34.50, RT	3352.68
179	BEALE ST/39+09.51	31.37, RT	3352.66
180	BEALE ST/38+87.76	41.50, RT	3352.84
181	BEALE ST/39+05.73	41.81, RT	3352.74
182	BEALE ST/39+05.56	71.20, RT	3351.80
183	BEALE ST/39+89.34	34.50, RT	3352.67
184	BEALE ST/39+96.30	34.50, RT	3352.70

CURVE #	LENGTH	RADIUS	DELTA
C1	1.57	2.00	44°59'58"
C2	47.10	30.00	89°56'46"
C3	3.93	5.00	45°03'44"
C4	4.36	5.50	45°26'37"
C5	4.29	5.50	44°39'43"

CURVE #	LENGTH	RADIUS	DELTA
C6	3.92	5.00	44°56'16"
C7	44.23	30.00	84°28'14"
C8	4.71	3.00	90°00'04"
C10	3.93	5.00	44°59'56"
C11	3.93	5.00	44°59'56"

CURVE #	LENGTH	RADIUS	DELTA
C12	50.02	30.00	95°32'01"
C13	3.93	5.00	45°03'29"
C14	4.30	5.50	44°46'38"
C15	4.29	5.50	44°41'17"
C16	47.15	30.00	90°02'59"

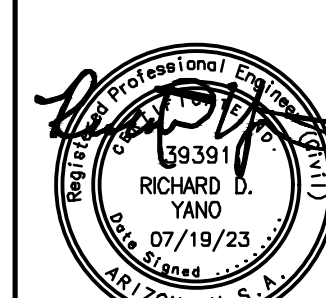
CURVE #	LENGTH	RADIUS	DELTA
C17	4.71	2.00	135°00'02"
C29	3.92	5.00	44°56'31"
C30	7.85	5.00	90°00'57"

REVISIONS:

WSP USA Environment & Infrastructure, Inc.  
 4600 E. WASHINGTON STREET, SUITE 600  
 PHOENIX, ARIZONA 85034  
 PHONE: 602-733-6000  
 FAX: 602-733-6100

INTERSECTION DETAIL  
 KINGMAN DOWNTOWN INFRASTRUCTURE  
 BEALE ST - 1ST ST TO 6TH ST  
 KINGMAN, ARIZONA

DESIGNED BY: HMR  
 DRAWN BY: AA  
 CHECKED BY: DY  
 DATE: JUNE 2023



EXPIRES: 9/30/2024

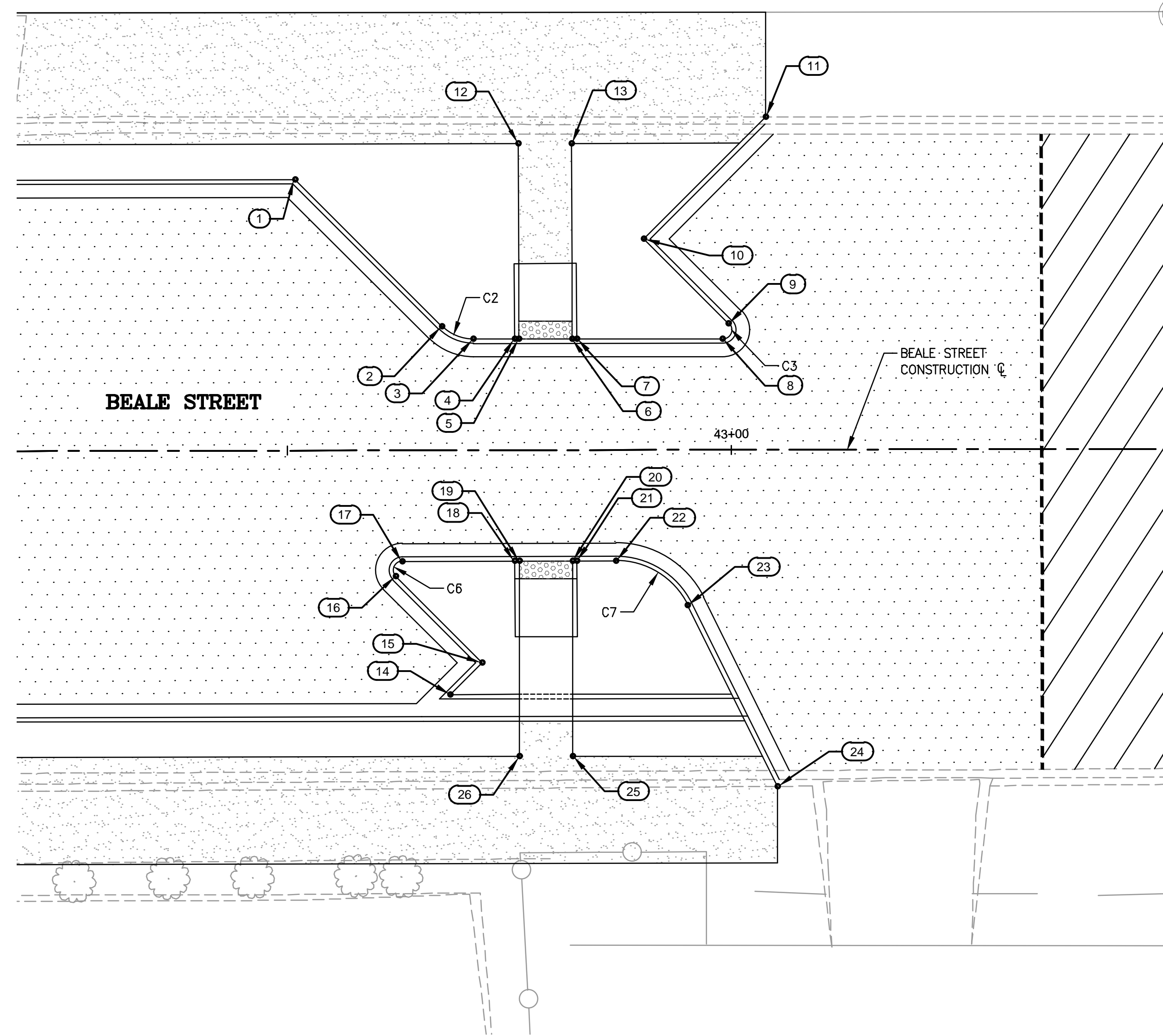
PROJECT NO.  
372025006

DRAWING NAME  
**DT11**  
SHEET NO. 16 of 63

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**MID-BLOCK CROSSING BETWEEN 5TH STREET AND 6TH STREET**

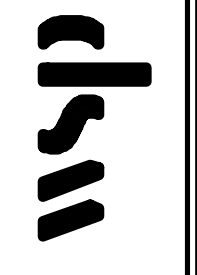
BACK OF CURB STAKING TABLE			
POINT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE ST/42+50.92	30.50, LT	3354.92
2	BEALE ST/42+67.46	13.96, LT	3354.27
3	BEALE ST/42+70.99	12.50, LT	3354.18
4	BEALE ST/42+75.64	12.50, LT	3354.19
5	BEALE ST/42+76.10	12.50, LT	3354.19
6	BEALE ST/42+82.10	12.50, LT	3354.20
7	BEALE ST/42+82.64	12.50, LT	3354.20
8	BEALE ST/42+99.04	12.50, LT	3354.21
9	BEALE ST/42+99.74	14.21, LT	3354.45
10	BEALE ST/42+90.23	23.72, LT	3354.84
11	BEALE ST/43+03.98	37.47, LT	3354.72
12	BEALE ST/42+76.10	34.50, LT	3354.98
13	BEALE ST/42+82.10	34.50, LT	3354.97

BACK OF CURB STAKING TABLE			
POINT #	ALIGNMENT/STATION	OFFSET	ELEVATION
14	BEALE ST/42+68.33	27.50, RT	3352.04
15	BEALE ST/42+71.91	23.92, RT	3352.77
16	BEALE ST/42+62.20	14.21, RT	3353.10
17	BEALE ST/42+62.90	12.50, RT	3353.29
18	BEALE ST/42+75.59	12.50, RT	3353.29
19	BEALE ST/42+76.10	12.50, RT	3353.29
20	BEALE ST/42+82.10	12.50, RT	3353.29
21	BEALE ST/42+82.59	12.50, RT	3353.29
22	BEALE ST/42+86.99	12.50, RT	3353.28
23	BEALE ST/42+95.05	17.51, RT	3353.05
24	BEALE ST/43+05.16	37.92, RT	3352.39
25	BEALE ST/42+82.10	34.50, RT	3352.50
26	BEALE ST/42+76.10	34.50, RT	3352.50

CURB TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C2	3.93	5.00	44°59'56"
C3	2.36	1.00	135°00'04"
C6	2.36	1.00	135°00'04"
C7	10.00	9.00	63°39'16"

REVISIONS:

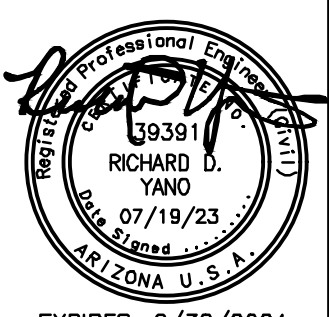
WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100



MID-BLOCK CROSSING DETAIL

KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023



EXPIRES: 9/30/2024

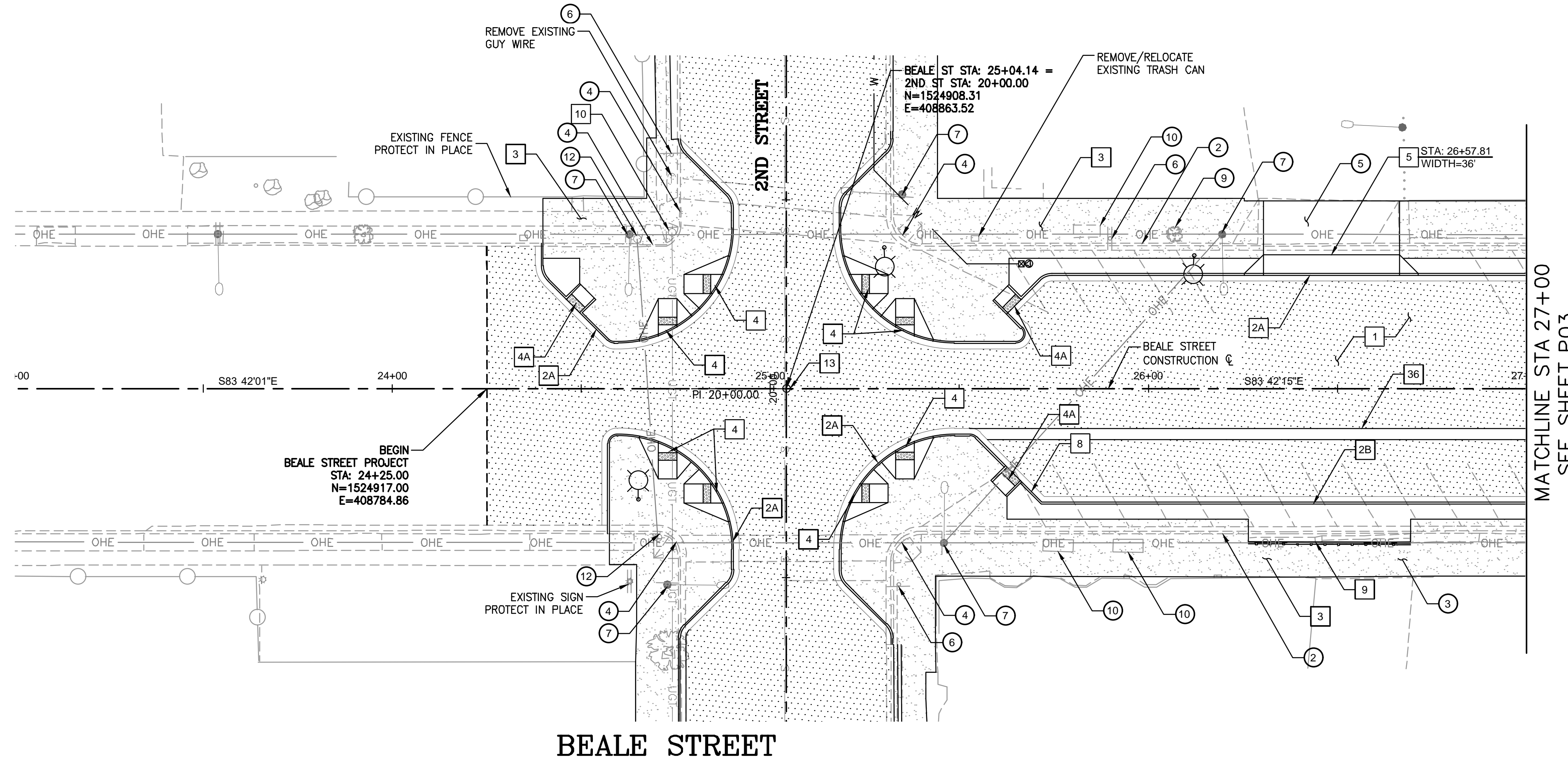
PROJECT NO.  
3720205006

DRAWING NAME  
**DT12**

SHEET NO. 17 of 63

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### REMOVALS & ADJUSTMENTS

NO.	DESCRIPTION	QTY
1	SAWCUT AND REMOVE EXISTING PAVEMENT	2957 SY
2	REMOVE EXISTING CONCRETE CURB & GUTTER	500 LF
3	REMOVE EXISTING CONCRETE SIDEWALK	2636 SF
4	REMOVE EXISTING PEDESTRIAN RAMP	5 EA
5	REMOVE EXISTING CONCRETE DRIVEWAY	492 SF
6	REMOVE EXISTING SIGN POST AND FOUNDATION	3 EA
7	REMOVE EXISTING LIGHT POLE, FOUNDATION, AERIAL LINES AND APPURTENANCES	5 EA
9	REMOVE EXISTING TREE	1 EA
10	REMOVE EXISTING LANDSCAPE PLANTER	3 EA
12	REMOVE EXISTING STREET LIGHT	2 EA

### CONSTRUCTION NOTES

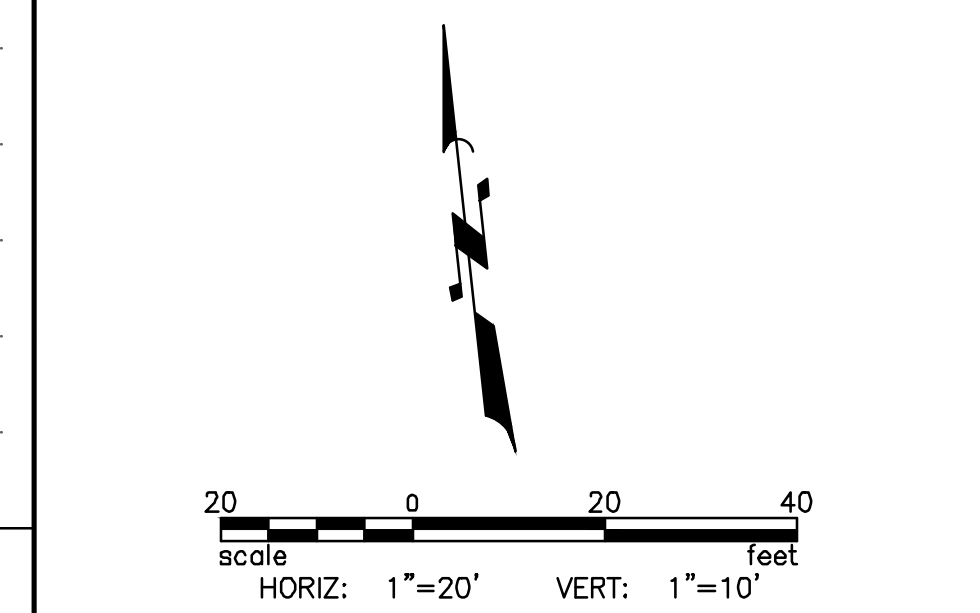
NO.	DESCRIPTION	QTY
1	CONSTRUCT ASPHALT PAVEMENT, STRUCTURAL SECTION NO. 1	1566 SY
2A	CONSTRUCT 8" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	360 LF
2B	CONSTRUCT 6" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	362 LF
3	CONSTRUCT CONCRETE SIDEWALK, MAG STD DTL 230	9152 SF
4	CONSTRUCT DIRECTIONAL CURB RAMP, MAG STD DTL 237-1	8 EA
4A	CONSTRUCT DIRECTIONAL CURB RAMP, PER MID-BLOCK AND ADA STALL DTL 01A	3 EA
5	CONSTRUCT CONCRETE DRIVEWAY, MAG STD DTL 250-1	812 SF
8	CONSTRUCT 2' CURB CUT PER DETAIL DWG DT01	1 EA
9	CONSTRUCT 18" RETAINING WALL WITH SAFETY RAIL, MAG STD DTL 145	43 LF
10	REMOVE & RELOCATE EXISTING POWER POLE	1 EA
13	REMOVE, CLEAN AND RESET SURVEY MARKER, MAG STD DTL 120-1, TYPE B	1 EA
36	CONSTRUCT 3' VALLEY GUTTER, MAG STD DTL 240	153 LF
41	CONSTRUCT MOUNTABLE CURB, MAG DTL 220-2	90 LF

- SEE LIGHTING SHEETS FOR ADDITIONAL INFORMATION
- SEE PAVEMENT MARKINGS & SIGNING FOR ADDITIONAL INFORMATION

### GENERAL CONSTRUCTION NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION JANUARY 2022 EDITION AND THE CITY OF KINGMAN STANDARD DETAILS AND SPECIFICATIONS.
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- VARIANCE FROM THIS DRAWING AND/OR SPECIFICATIONS WILL REQUIRE PRIOR APPROVAL OF THE CITY ENGINEER.

### LEGEND



File: C:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-P02.dwg

REVISIONS:

NO.	DESCRIPTION

WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100

PLAN AND PROFILE  
KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023

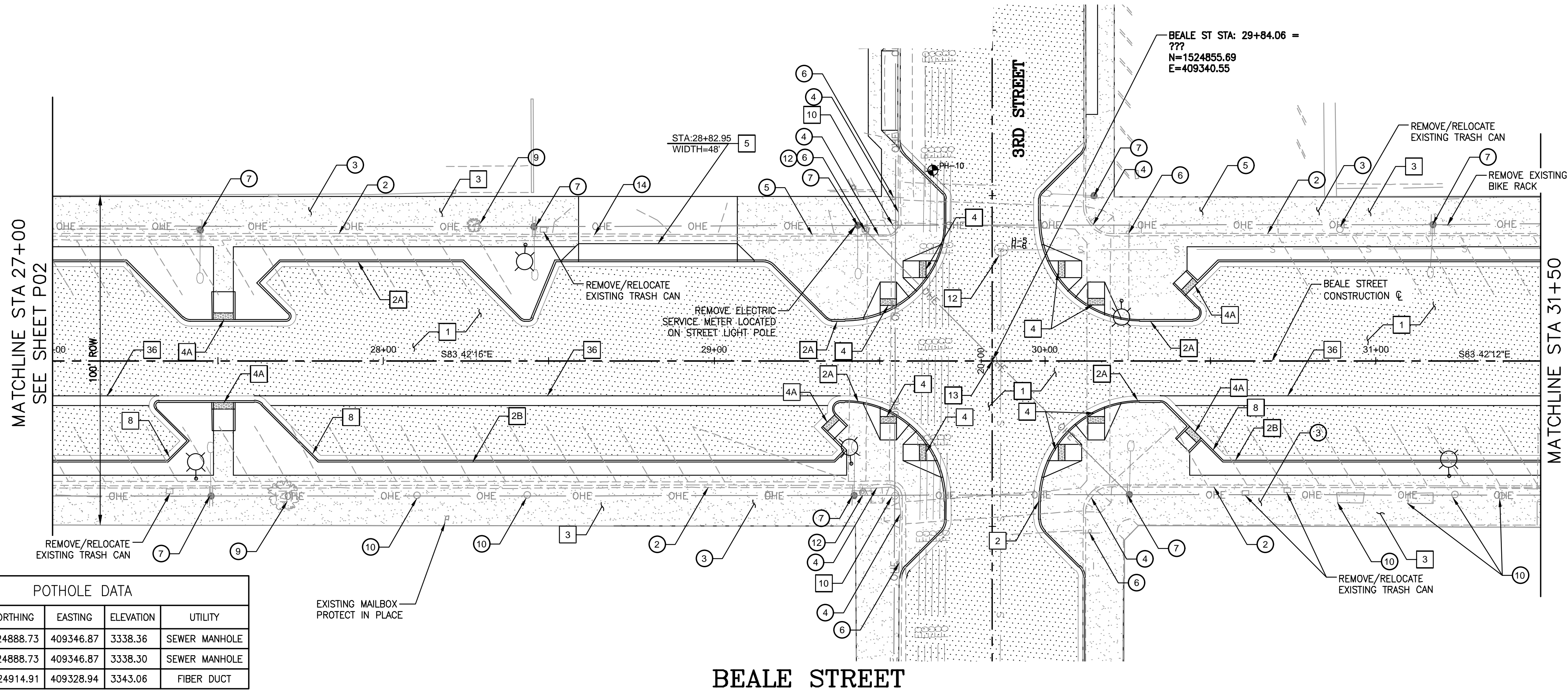


PROJECT NO.  
3720205006

DRAWING NAME  
**P02**

SHEET NO. 18 of 63

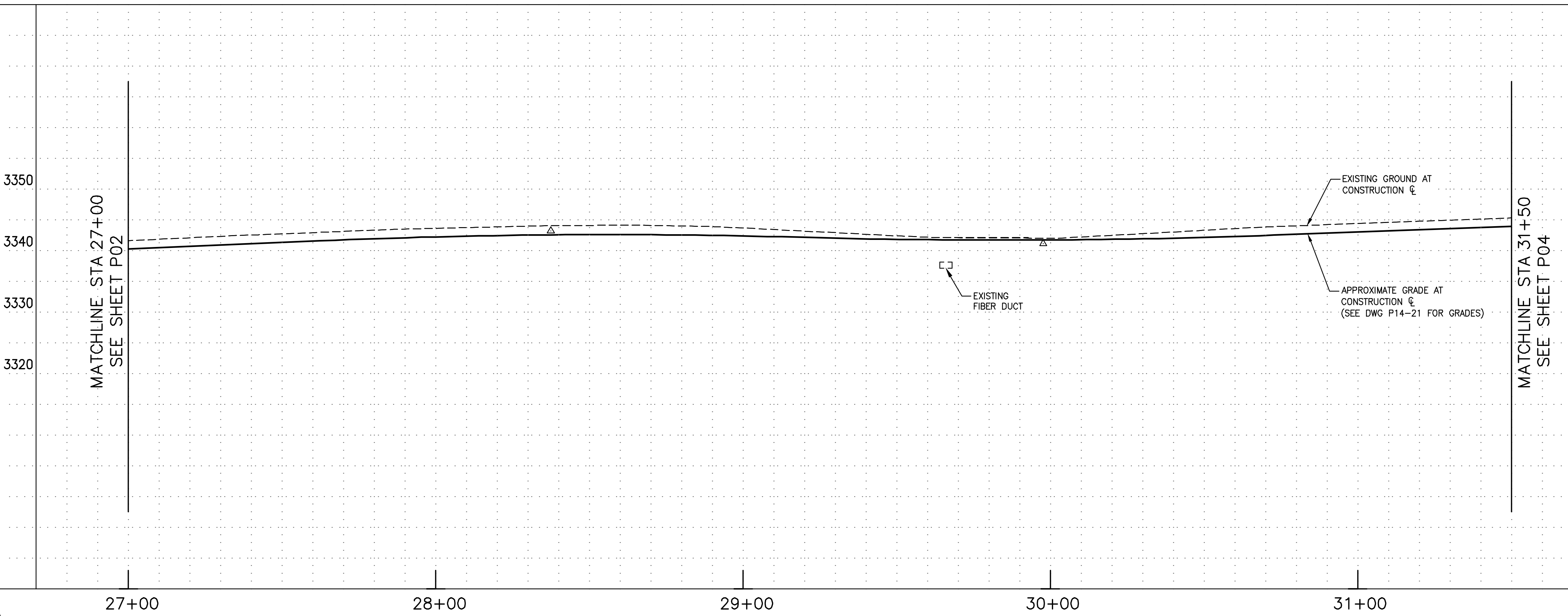
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MATCHLINE STA 27+00  
SEE SHEET P02

MATCHLINE STA 31+50  
SEE SHEET P04

POTHOLE DATA				
POTHOLE #	NORTHING	EASTING	ELEVATION	UTILITY
5	1524888.73	409346.87	3338.36	SEWER MANHOLE
6	1524888.73	409346.87	3338.30	SEWER MANHOLE
10	1524914.91	409328.94	3343.06	FIBER DUCT



MATCHLINE STA 27+00  
SEE SHEET P02

MATCHLINE STA 31+50  
SEE SHEET P04

**REMOVALS & ADJUSTMENTS**

NO.	DESCRIPTION	QTY
1	SAWCUT AND REMOVE EXISTING PAVEMENT	4077 SY
2	REMOVE EXISTING CONCRETE CURB & GUTTER	970 LF
3	REMOVE EXISTING CONCRETE SIDEWALK	8536 SF
4	REMOVE EXISTING PEDESTRIAN RAMP	6 EA
5	REMOVE EXISTING CONCRETE DRIVEWAY	156 SF
6	REMOVE EXISTING SIGN POST AND FOUNDATION	5 EA
7	REMOVE EXISTING LIGHT POLE, FOUNDATION, AERIAL LINES AND APPURTENANCES	8 EA
9	REMOVE EXISTING TREE	2 EA
10	REMOVE EXISTING LANDSCAPE PLANTER	6 EA
12	REMOVE EXISTING STREET LIGHT	2 EA
14	REMOVE EXISTING ASPHALT DRIVEWAY	662 SF

**CONSTRUCTION NOTES**

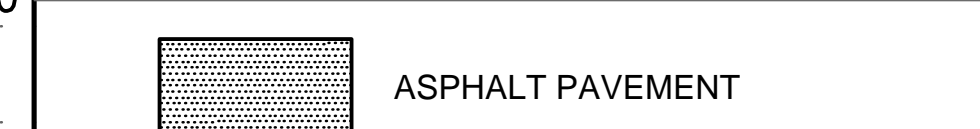
NO.	DESCRIPTION	QTY
1	CONSTRUCT ASPHALT PAVEMENT, STRUCTURAL SECTION NO. 1	2284 SY
2A	CONSTRUCT 8" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	914 LF
2B	CONSTRUCT 6" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	361 LF
3	CONSTRUCT CONCRETE SIDEWALK, MAG STD DTL 230	13810 SF
4	CONSTRUCT DIRECTIONAL CURB RAMP, MAG STD DTL 237-1	8 EA
4A	CONSTRUCT DIRECTIONAL CURB RAMP, PER MID-BLOCK AND ADA STALL DTL 01A	5 EA
5	CONSTRUCT CONCRETE DRIVEWAY, MAG STD DTL 250-1	945 SF
8	CONSTRUCT 2' CURB CUT PER DETAIL DWG DT01	3 EA
10	REMOVE & RELOCATE EXISTING POWER POLE	4 EA
12	ADJUST & CLEAN EXISTING MANHOLE FRAME AND COVER TO FINISH GRADE, MAG STD DTL 422	1 EA
13	REMOVE, CLEAN AND RESET SURVEY MARKER, MAG STD DTL 120-1, TYPE B	1 EA
36	CONSTRUCT 3' VALLEY GUTTER, MAG STD DTL 240	314 LF

• SEE LIGHTING SHEETS FOR ADDITIONAL INFORMATION  
 • SEE PAVEMENT MARKINGS & SIGNING FOR ADDITIONAL INFORMATION

**GENERAL CONSTRUCTION NOTES**

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**LEGEND**



20 0 20 40  
 scale  
 HORIZ: 1"=20' VERT: 1"=10' feet

REVISIONS:


WSP USA Environment & Infrastructure, Inc.  
 4600 E. WASHINGTON STREET, SUITE 600  
 PHOENIX, ARIZONA 85034  
 PHONE: 602-733-6000  
 FAX: 602-733-6100

**PLAN AND PROFILE**  
**KINGMAN DOWNTOWN INFRASTRUCTURE**  
**BEALE ST - 1ST ST TO 6TH ST**  
 KINGMAN, ARIZONA

DESIGNED BY: HMR  
 DRAWN BY: AA  
 CHECKED BY: DY  
 DATE: JUNE 2023



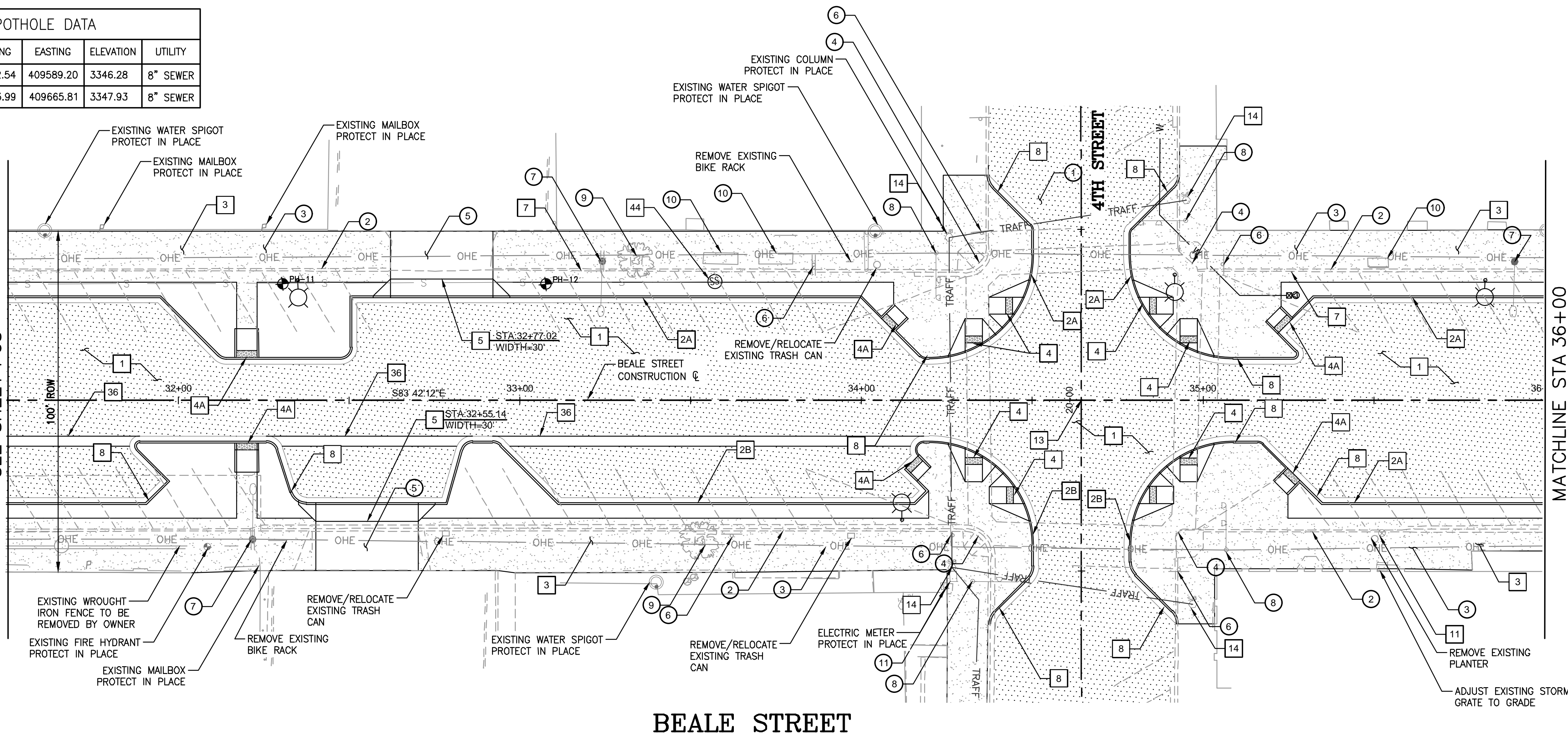
EXPIRES: 9/30/2024  
 PROJECT NO.  
 3720205006  
 DRAWING NAME  
**P03**  
 SHEET NO. 19 of 63

File: C:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-P03.dwg

POTHOLE DATA				
POTHOLE #	NORTHING	EASTING	ELEVATION	UTILITY
11	1524862.54	409589.20	3346.28	8" SEWER
12	1524853.99	409665.81	3347.93	8" SEWER

MATCHLINE STA 31+50  
SEE SHEET P03

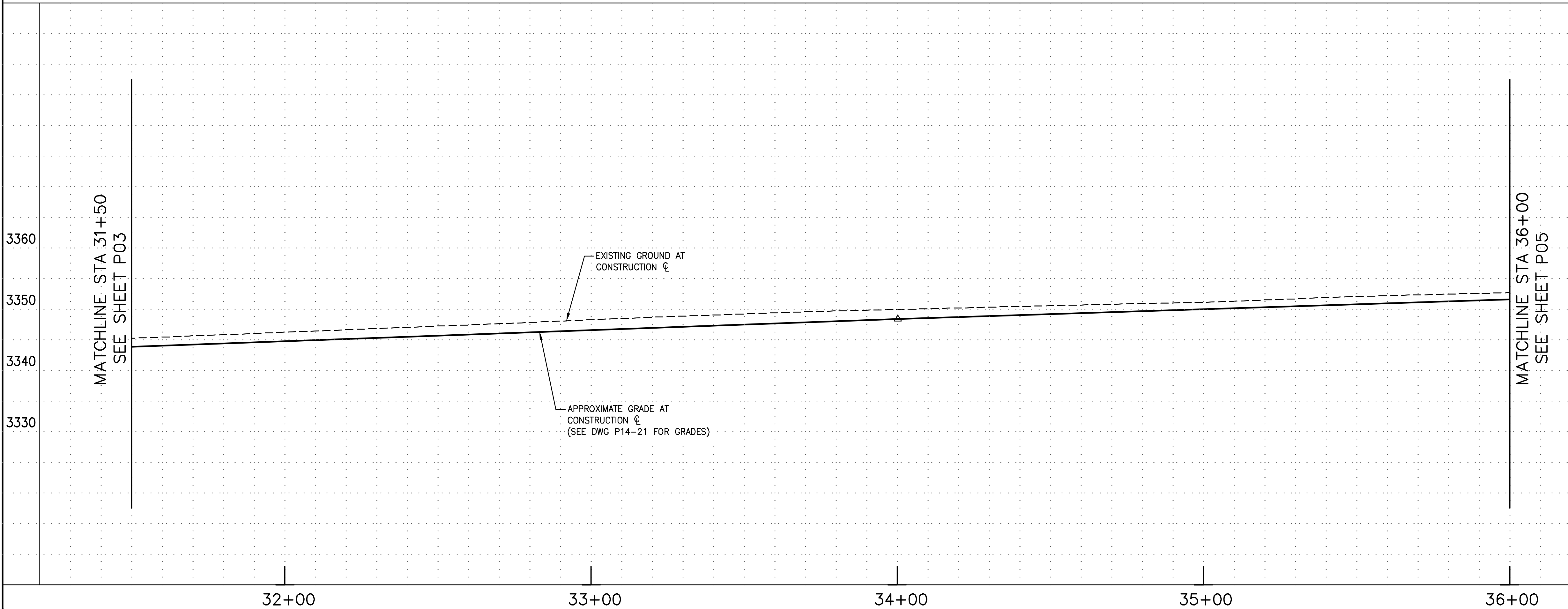
MATCHLINE STA 36+00  
SEE SHEET P05



**BEALE STREET**

MATCHLINE STA 31+50  
SEE SHEET P03

MATCHLINE STA 36+00  
SEE SHEET P05



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REMOVALS & ADJUSTMENTS		
NO.	DESCRIPTION	QTY
1	SAWCUT AND REMOVE EXISTING PAVEMENT	4139 SY
2	REMOVE EXISTING CONCRETE CURB & GUTTER	886 LF
3	REMOVE EXISTING CONCRETE SIDEWALK	9622 SF
4	REMOVE EXISTING PEDESTRIAN RAMP	4 EA
5	REMOVE EXISTING CONCRETE DRIVEWAY	746 SF
6	REMOVE EXISTING SIGN POST AND FOUNDATION	6 EA
7	REMOVE EXISTING LIGHT POLE, FOUNDATION, AERIAL LINES AND APPURTENANCES	3 EA
8	REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL, POLE AND FOUNDATION	4 EA
9	REMOVE EXISTING TREE	2 EA
10	REMOVE EXISTING LANDSCAPE PLANTER	3 EA
11	REMOVE AND SALVAGE EXISTING CABINET, EQUIPMENT AND FOUNDATION	1 EA

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY
1	CONSTRUCT ASPHALT PAVEMENT, STRUCTURAL SECTION NO. 1	2278 SY
2A	CONSTRUCT 8" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	756 LF
2B	CONSTRUCT 6" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	432 LF
3	CONSTRUCT CONCRETE SIDEWALK, MAG STD DTL 230	15156 SF
4	CONSTRUCT DIRECTIONAL CURB RAMP, MAG STD DTL 237-1	8 EA
4A	CONSTRUCT DIRECTIONAL CURB RAMP, PER MID-BLOCK AND ADA STALL DTL 01A	6 EA
5	CONSTRUCT CONCRETE DRIVEWAY, MAG STD DTL 250-1	1202 SF
7	CONNECT NEW ROOF DRAIN PIPE AT BUILDING FACE. EXTEND NEW PIPE AND DAYLIGHT AT NEW FACE OF CURB. CONTRACTOR TO VERIFY EXISTING DOWNSPOUT AND OUTFALL PIPE AND MATCH EXISTING SIZE	3 EA
8	CONSTRUCT 2' CURB CUT PER DETAIL DWG DT01	10 EA
11	ADJUST & CLEAN EXISTING WATER OR GAS VALVE FRAME AND COVER TO FINISH GRADE, MAG STD DTL 270	1 EA
13	REMOVE, CLEAN AND RESET SURVEY MARKER, MAG STD DTL 120-1, TYPE B	1 EA
14	ADJUST EXISTING JUNCTION BOX TO FINISH GRADE	4 EA
36	CONSTRUCT 3' VALLEY GUTTER, MAG STD DTL 240	210 LF
44	CONSTRUCT SANITARY SEWER MANHOLE, MAG STD DTL 420-1	1 EA

**GENERAL CONSTRUCTION NOTES**

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**LEGEND**

ASPHALT PAVEMENT

NO.	REVISIONS

WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100

**PLAN AND PROFILE**  
KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023

PROJECT NO.  
3720205006

DRAWING NAME  
**P04**  
SHEET NO. 20 OF 63

File: C:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-P04.dwg

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### REMOVALS & ADJUSTMENTS

NO.	DESCRIPTION	QTY
1	SAWCUT AND REMOVE EXISTING PAVEMENT	4133 SY
2	REMOVE EXISTING CONCRETE CURB & GUTTER	912 LF
3	REMOVE EXISTING CONCRETE SIDEWALK	7966 SF
4	REMOVE EXISTING PEDESTRIAN RAMP	4 EA
5	REMOVE EXISTING CONCRETE DRIVEWAY	590 SF
6	REMOVE EXISTING SIGN POST AND FOUNDATION	5 EA
7	REMOVE EXISTING LIGHT POLE, FOUNDATION, AERIAL LINES AND APPURTENANCES	6 EA
9	REMOVE EXISTING TREE	4 EA
10	REMOVE EXISTING LANDSCAPE PLANTER	2 EA
12	REMOVE EXISTING STREET LIGHT	2 EA

### CONSTRUCTION NOTES

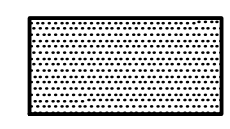
NO.	DESCRIPTION	QTY
1	CONSTRUCT ASPHALT PAVEMENT, STRUCTURAL SECTION NO. 1	2336 SY
2A	CONSTRUCT 8" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	825 LF
2B	CONSTRUCT 6" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	462 LF
3	CONSTRUCT CONCRETE SIDEWALK, MAG STD DTL 230	15058 SF
4	CONSTRUCT DIRECTIONAL CURB RAMP, MAG STD DTL 237-1	8 EA
4A	CONSTRUCT DIRECTIONAL CURB RAMP, PER MID-BLOCK AND ADA STALL DTL 01A	5 EA
5	CONSTRUCT CONCRETE DRIVEWAY, MAG STD DTL 250-1	1594 SF
7	CONNECT NEW ROOF DRAIN PIPE AT BUILDING FACE. EXTEND NEW PIPE AND DAYLIGHT AT NEW FACE OF CURB. CONTRACTOR TO VERIFY EXISTING DOWNSPOUT AND OUTFALL PIPE AND MATCH EXISTING SIZE	4 EA
8	CONSTRUCT 2' CURB CUT PER DETAIL DWG DT01	12 EA
13	REMOVE, CLEAN AND RESET SURVEY MARKER, MAG STD DTL 120-1, TYPE B	1 EA

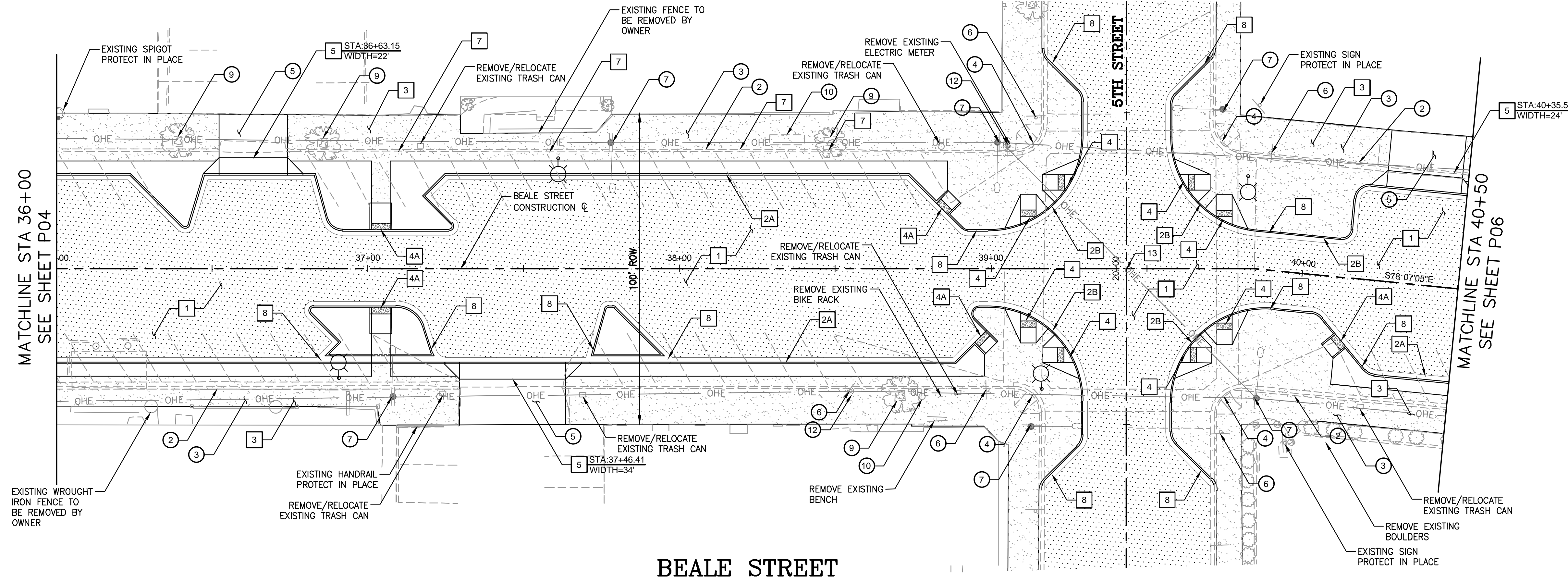
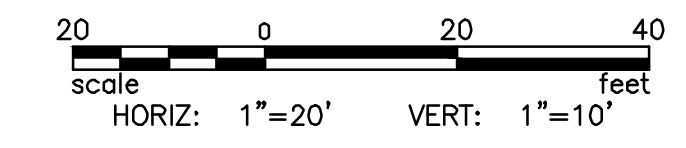
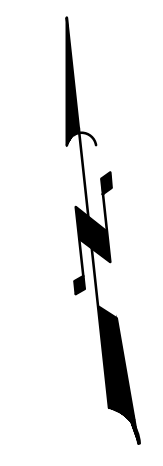
- SEE LIGHTING SHEETS FOR ADDITIONAL INFORMATION
- SEE PAVEMENT MARKINGS & SIGNING FOR ADDITIONAL INFORMATION

### GENERAL CONSTRUCTION NOTES

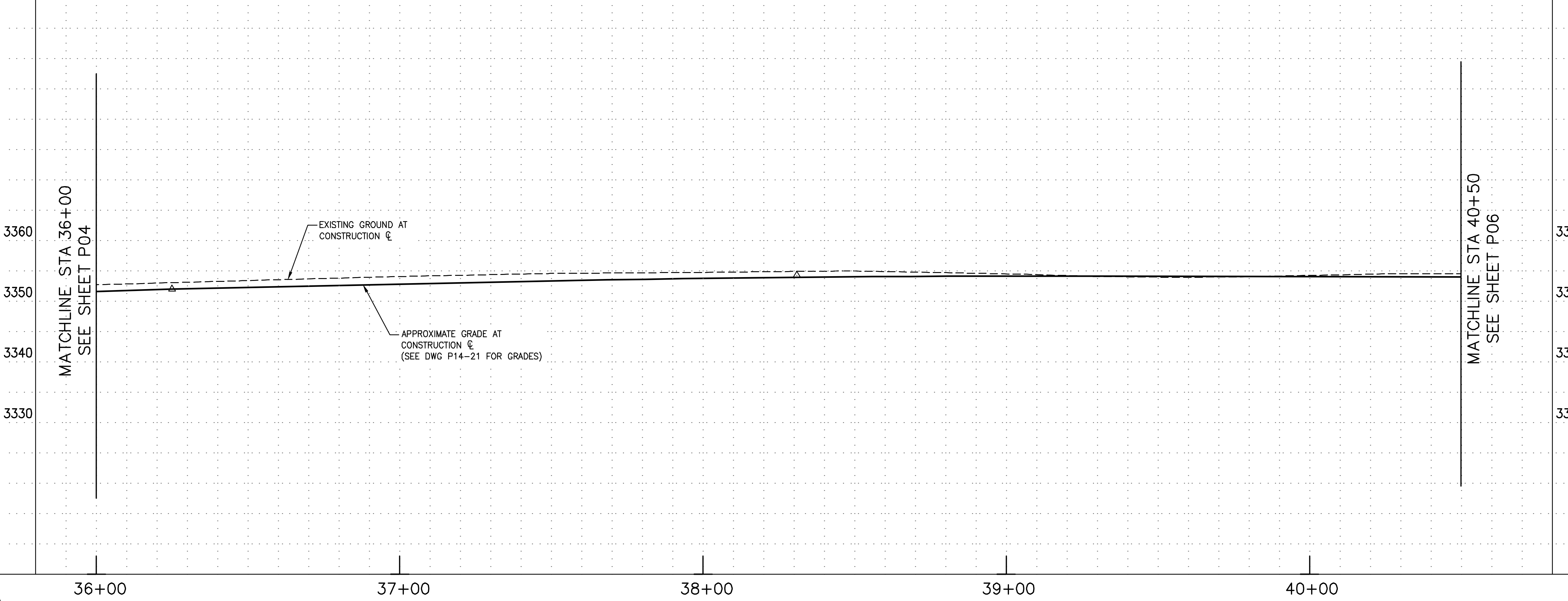
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### LEGEND

 ASPHALT PAVEMENT



## BEALE STREET



REVISIONS:

NO.	DESCRIPTION

WSP USA Environment & Infrastructure, Inc.  
 4600 E. WASHINGTON STREET, SUITE 600  
 PHOENIX, ARIZONA 85034  
 PHONE: 602-733-6000  
 FAX: 602-733-6100

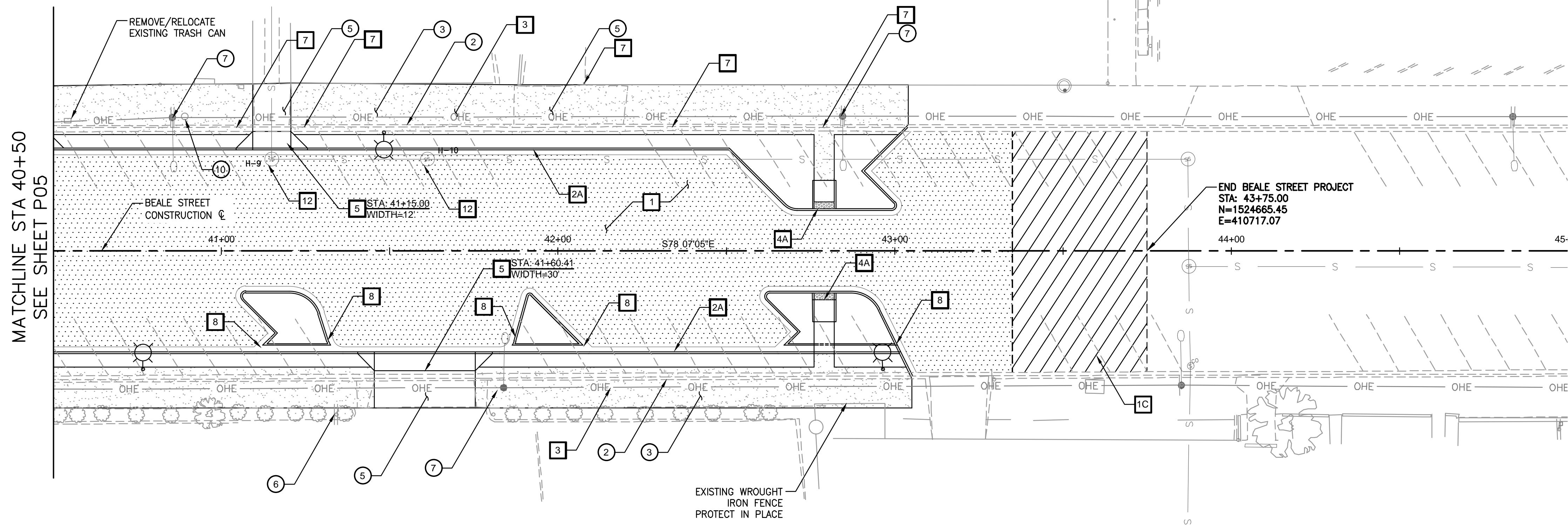
PLAN AND PROFILE  
 KINGMAN DOWNTOWN INFRASTRUCTURE  
 BEALE ST - 1ST ST TO 6TH ST  
 KINGMAN, ARIZONA

DESIGNED BY: HMR  
 DRAWN BY: AA  
 CHECKED BY: DY  
 DATE: JUNE 2023

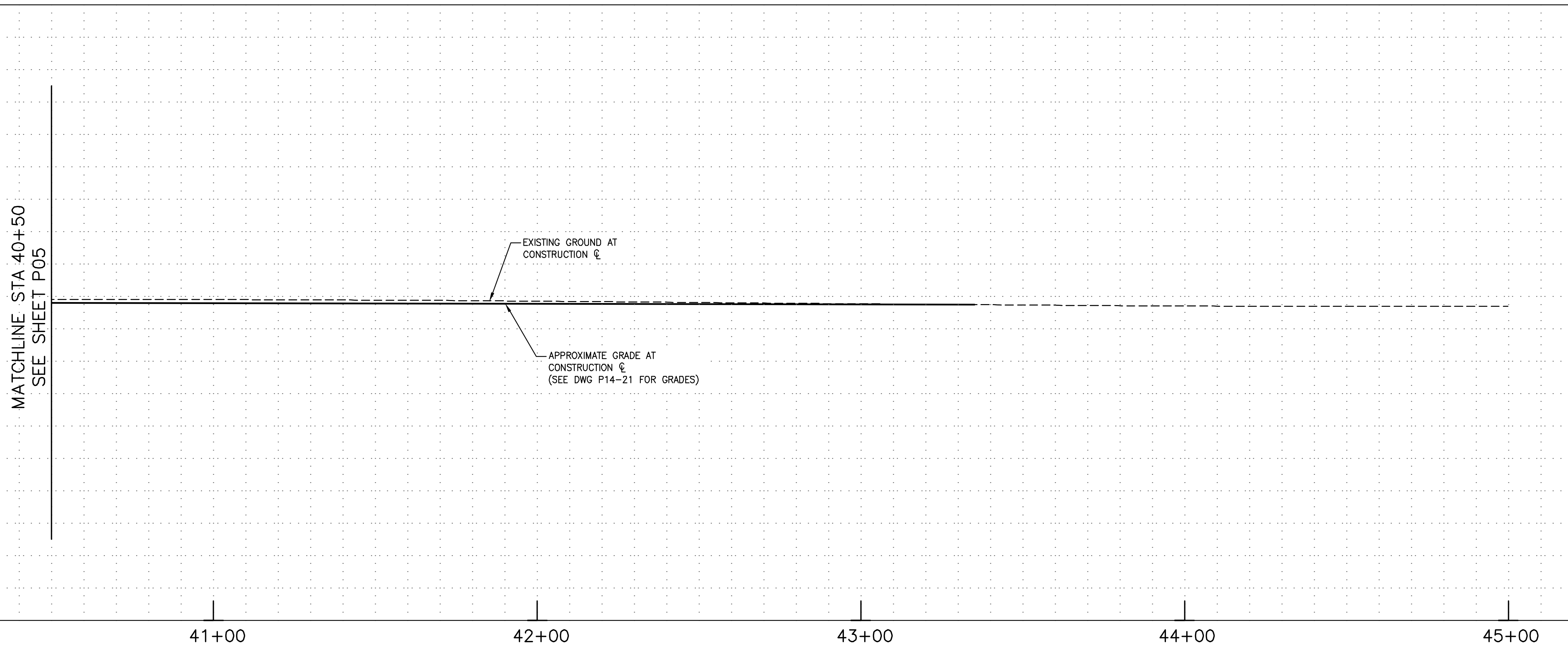


EXPIRES: 9/30/2024  
 PROJECT NO.  
 3720205006  
 DRAWING NAME  
**P05**  
 SHEET NO. 21 of 63

POTHOLE DATA				
POTHOLE #	NORTHING	EASTING	ELEVATION	UTILITY
9	1524745.63	410468.14	3353.57	SEWER MANHOLE
10	1524736.08	410513.34	3353.31	SEWER MANHOLE



**BEALE STREET**



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REMOVALS & ADJUSTMENTS		
NO.	DESCRIPTION	QTY
1	SAWCUT AND REMOVE EXISTING PAVEMENT	1301 SY
2	REMOVE EXISTING CONCRETE CURB & GUTTER	330 LF
3	REMOVE EXISTING CONCRETE SIDEWALK	5518 SF
5	REMOVE EXISTING CONCRETE DRIVEWAY	705 SF
6	REMOVE EXISTING SIGN POST AND FOUNDATION	1 EA
7	REMOVE EXISTING LIGHT POLE, FOUNDATION, AERIAL LINES AND APPURTENANCES	4 EA
10	REMOVE EXISTING LANDSCAPE PLANTER	1 EA

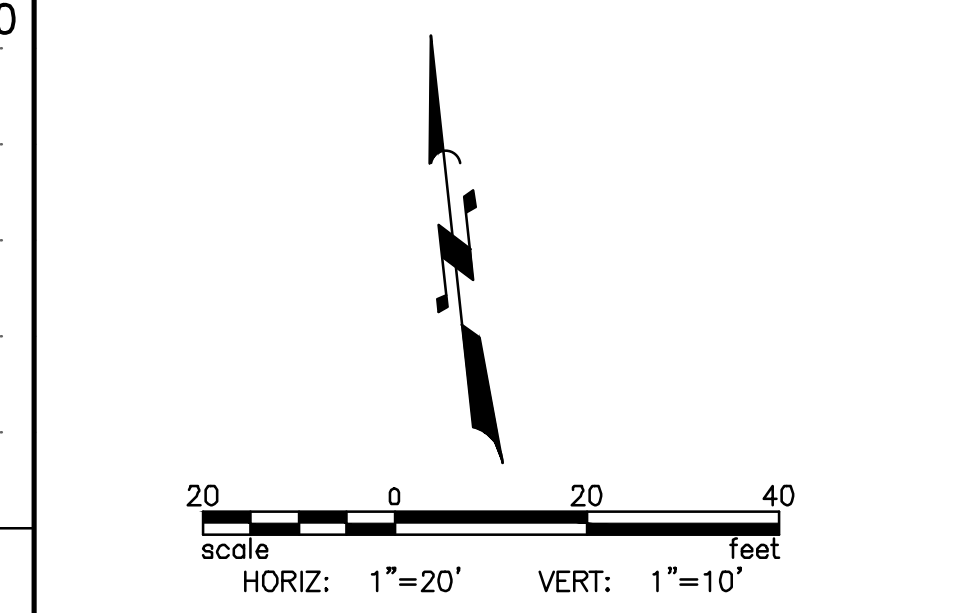
CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY
1	CONSTRUCT ASPHALT PAVEMENT, STRUCTURAL SECTION NO. 1	2601 SY
1C	MILL & OVERLAY 1.5" EXISTING PAVEMENT	317 SY
2A	CONSTRUCT 8" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	1174 LF
3	CONSTRUCT CONCRETE SIDEWALK, MAG STD DTL 230	11020 SF
4A	CONSTRUCT DIRECTIONAL CURB RAMP, PER MID-BLOCK AND ADA STALL DTL 01A	2 EA
5	CONSTRUCT CONCRETE DRIVEWAY, MAG STD DTL 250-1	1606 SF
7	CONNECT NEW ROOF DRAIN PIPE AT BUILDING FACE. EXTEND NEW PIPE AND DAYLIGHT AT NEW FACE OF CURB. CONTRACTOR TO VERIFY EXISTING DOWNSPOUT AND OUTFALL PIPE AND MATCH EXISTING SIZE	9 EA
8	CONSTRUCT 2' CURB CUT PER DETAIL DWG DT01	6 EA
12	ADJUST & CLEAN EXISTING MANHOLE FRAME AND COVER TO FINISH GRADE, MAG STD DTL 422	2 EA

- SEE LIGHTING SHEETS FOR ADDITIONAL INFORMATION
- SEE PAVEMENT MARKINGS & SIGNING FOR ADDITIONAL INFORMATION

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**LEGEND**

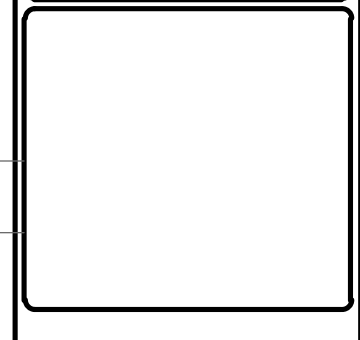


REVISIONS:	
NO.	DESCRIPTION

WSP USA Environment & Infrastructure, Inc.  
 4600 E. WASHINGTON STREET, SUITE 600  
 PHOENIX, ARIZONA 85034  
 PHONE: 602-233-6000  
 FAX: 602-733-6100

**PLAN AND PROFILE**  
**KINGMAN DOWNTOWN INFRASTRUCTURE**  
**BEALE ST - 1ST ST TO 6TH ST**  
 KINGMAN, ARIZONA

DESIGNED BY: HMR  
 DRAWN BY: AA  
 CHECKED BY: DY  
 DATE: JUNE 2023

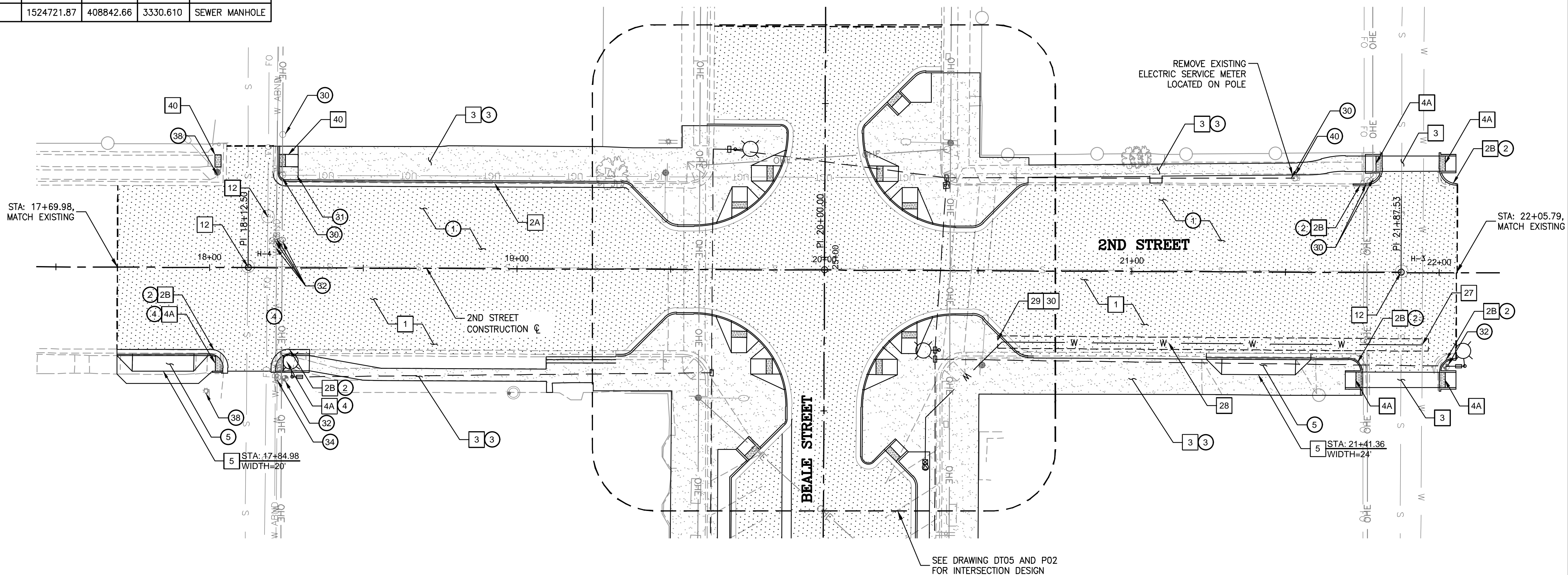


PROJECT NO.  
3720205006

DRAWING NAME  
**P06**

SHEET NO. 22 of 63

POTHOLE DATA				
POTHOLE #	NORTHING	EASTING	ELEVATION	UTILITY
3	1525094.90	408883.76	3336.480	SEWER MANHOLE
4	1524721.87	408842.66	3330.610	SEWER MANHOLE



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REMOVALS & ADJUSTMENTS		
NO.	DESCRIPTION	QTY
1	SAWCUT AND REMOVE EXISTING PAVEMENT	1747 SY
2	REMOVE EXISTING CONCRETE CURB & GUTTER	132 LF
3	REMOVE EXISTING CONCRETE SIDEWALK	920 SF
4	REMOVE EXISTING PEDESTRIAN RAMP	2 EA
5	REMOVE EXISTING CONCRETE DRIVEWAY	101 SF
30	EXISTING POWER POLE; PROTECT IN PLACE	NPI
31	EXISTING GUY WIRE; PROTECT IN PLACE	NPI
32	EXISTING FIRE HYDRANT; PROTECT IN PLACE	NPI
33	EXISTING MANHOLE; PROTECT IN PLACE	NPI
34	EXISTING VALVE; PROTECT IN PLACE	NPI
35	EXISTING WATER METER; PROTECT IN PLACE	NPI
38	EXISTING STREET LIGHT; PROTECT IN PLACE	NPI
40	EXISTING ELECTRIC METER; PROTECT IN PLACE	NPI

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY
1	CONSTRUCT ASPHALT PAVEMENT, STRUCTURAL SECTION NO. 1	2078 SY
2A	CONSTRUCT 8" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	217 LF
2B	CONSTRUCT 6" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	51 LF
3	CONSTRUCT CONCRETE SIDEWALK, MAG STD DTL 230	3269 SF
4A	CONSTRUCT DIRECTIONAL CURB RAMP, PER MID-BLOCK AND ADA STALL DTL 01A	6 EA
5	CONSTRUCT CONCRETE DRIVEWAY, MAG STD DTL 250-1	269 SF
12	ADJUST & CLEAN EXISTING MANHOLE FRAME AND COVER TO FINISH GRADE, MAG STD DTL 422	3 EA
27	CONNECT 1" COPPER SERVICE TO EXISTING WATER MAIN; SERVICE SADDLE WITH I.P. THREADS	1 EA
28	INSTALL 1" COPPER WATER LINE	140 LF
29	INSTALL 1" IRRIGATION WATER METER	1 EA
30	INSTALL IRRIGATION CONTROLLER	1 EA
40	INSTALL DETECTABLE WARNING, MAG STD DTL 234	2 EA

- SEE LIGHTING SHEETS FOR ADDITIONAL INFORMATION
- SEE PAVEMENT MARKINGS & SIGNING FOR ADDITIONAL INFORMATION

**GENERAL CONSTRUCTION NOTES**

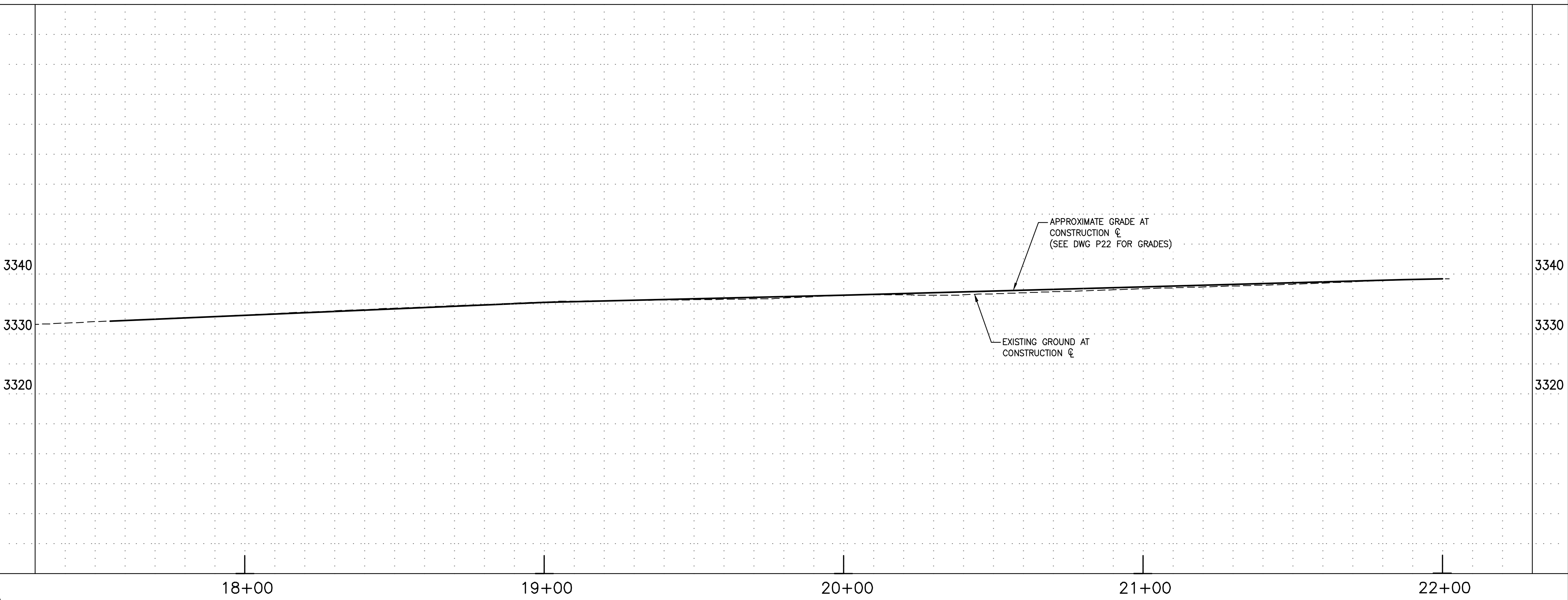
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION JANUARY 2022 EDITION AND THE CITY OF KINGMAN STANDARD DETAILS AND SPECIFICATIONS.
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- VARIANCE FROM THIS DRAWING AND/OR SPECIFICATIONS WILL REQUIRE PRIOR APPROVAL OF THE CITY ENGINEER.

**LEGEND**

	ASPHALT PAVEMENT
--	------------------

APPROXIMATE GRADE AT CONSTRUCTION  $\phi$  (SEE DWG P22 FOR GRADES)

EXISTING GROUND AT CONSTRUCTION  $\phi$



NO.	REVISIONS:

WSP USA Environment & Infrastructure, Inc.  
 4600 E. WASHINGTON STREET, SUITE 600  
 PHOENIX, ARIZONA 85034  
 PHONE: 602-733-6000  
 FAX: 602-733-6100

**2ND STREET PLAN AND PROFILE**  
**KINGMAN DOWNTOWN INFRASTRUCTURE**  
 BEALE ST - 1ST ST TO 6TH ST  
 KINGMAN, ARIZONA

DESIGNED BY: HMR  
 DRAWN BY: AA  
 CHECKED BY: DY  
 DATE: JUNE 2023



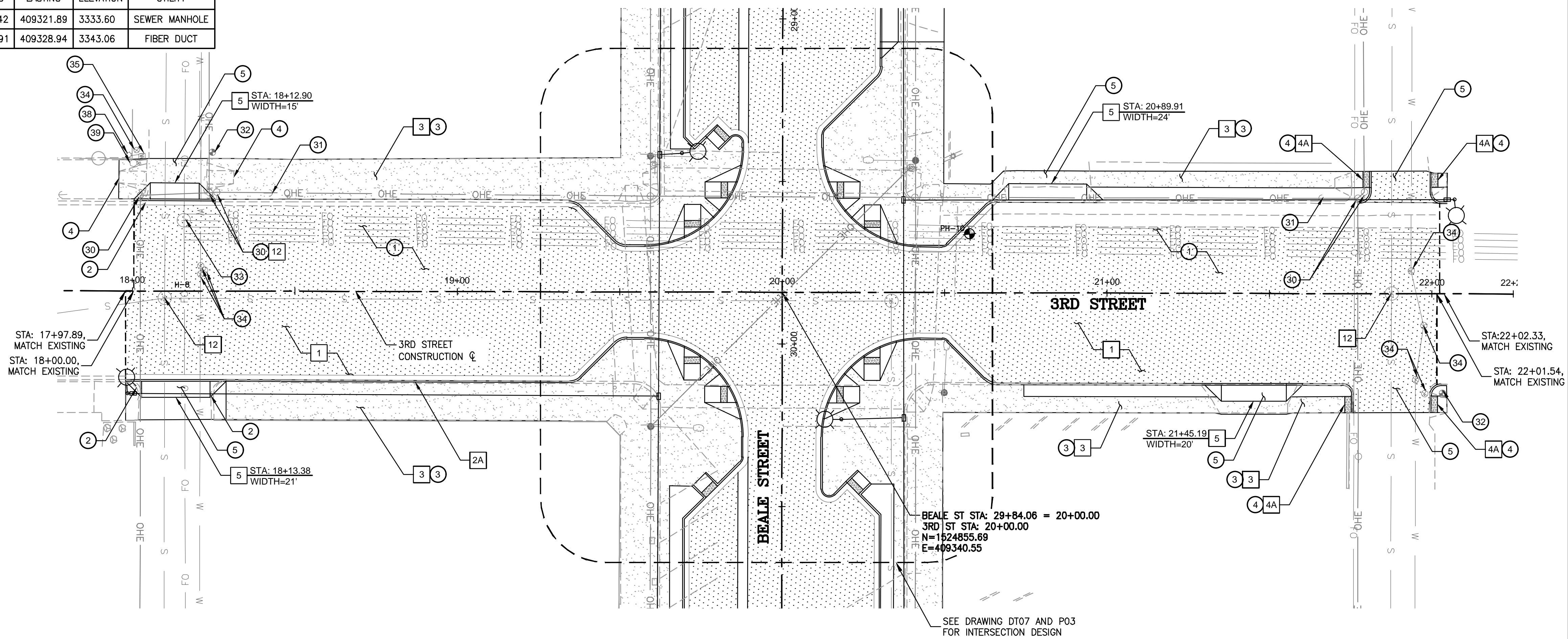
PROJECT NO.  
3720205006

DRAWING NAME  
**P09**

SHEET NO. 23 OF 63

File: C:\Infrastructure\Trans\Projects\2020\3720205006\Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-P09.dwg

POTHOLE DATA				
POTHOLE #	NORTHING	EASTING	ELEVATION	UTILITY
8	1524666.42	409321.89	3333.60	SEWER MANHOLE
10	1524914.91	409328.94	3343.06	FIBER DUCT



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REMOVALS & ADJUSTMENTS		
NO.	DESCRIPTION	QTY
1	SAWCUT AND REMOVE EXISTING PAVEMENT	1552 SY
2	REMOVE EXISTING CONCRETE CURB & GUTTER	85 LF
3	REMOVE EXISTING CONCRETE SIDEWALK	4614 SF
4	REMOVE EXISTING PEDESTRIAN RAMP	8 EA
5	REMOVE EXISTING CONCRETE DRIVEWAY	510 SF
30	EXISTING UTILITY POLE; PROTECT IN PLACE	NPI
31	EXISTING GUY WIRE; PROTECT IN PLACE	NPI
32	EXISTING FIRE HYDRANT; PROTECT IN PLACE	NPI
33	EXISTING MANHOLE; PROTECT IN PLACE	NPI
34	EXISTING VALVE; PROTECT IN PLACE	NPI
35	EXISTING WATER METER; PROTECT IN PLACE	NPI
38	EXISTING STREET LIGHT; PROTECT IN PLACE	NPI
39	EXISTING JUNCTION BOX; PROTECT IN PLACE	NPI

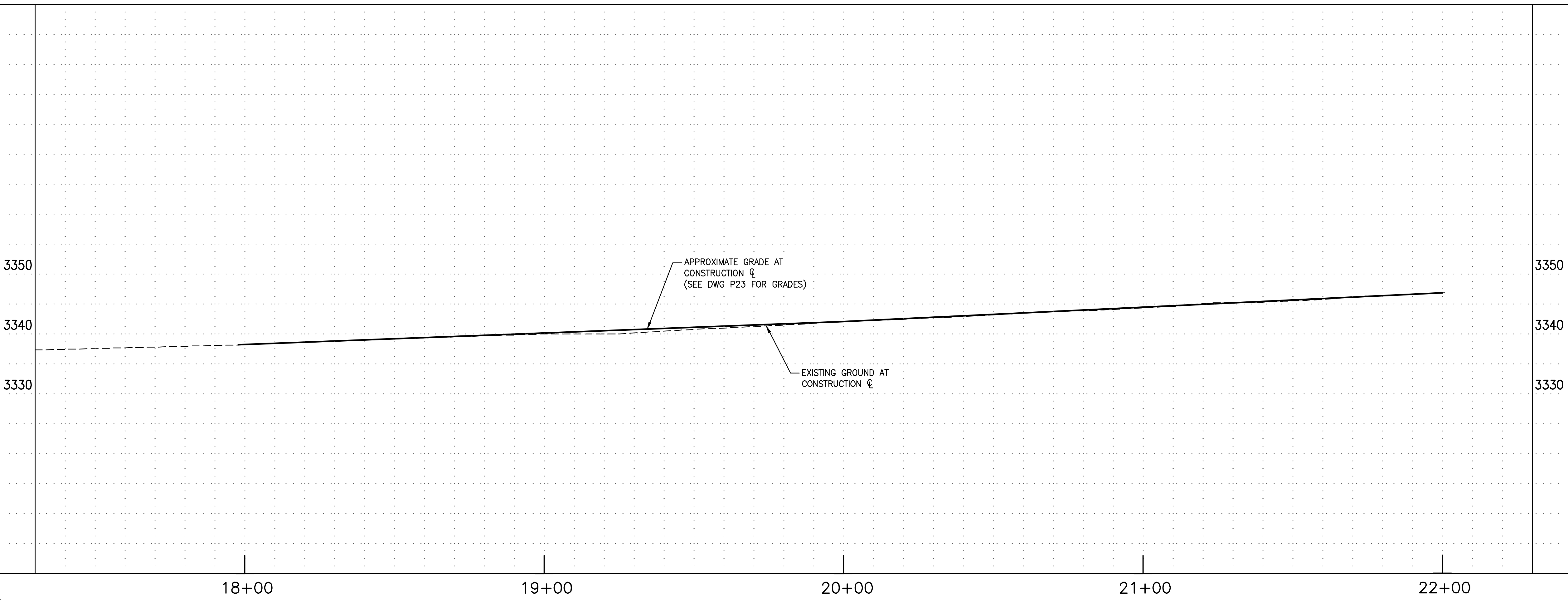
CONSTRUCTION NOTES		
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1	CONSTRUCT ASPHALT PAVEMENT, STRUCTURAL SECTION NO. 1	1758 SY
2C	CONSTRUCT 14" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A (CONTRACTOR TO MATCH EXISTING CURB HEIGHT)	135 LF
2B	CONSTRUCT 6" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	258 LF
3	CONSTRUCT CONCRETE SIDEWALK, MAG STD DTL 230	4265 SF
4A	CONSTRUCT DIRECTIONAL CURB RAMP, PER MID-BLOCK AND ADA STALL DTL 01A	4 EA
5	CONSTRUCT CONCRETE DRIVEWAY, MAG STD DTL 250-1	740 SF
12	ADJUST & CLEAN EXISTING MANHOLE FRAME AND COVER TO FINISH GRADE, MAG STD DTL 422	3 EA

- SEE LIGHTING SHEETS FOR ADDITIONAL INFORMATION
- SEE PAVEMENT MARKINGS & SIGNING FOR ADDITIONAL INFORMATION

**GENERAL CONSTRUCTION NOTES**

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION JANUARY 2022 EDITION AND THE CITY OF KINGMAN STANDARD DETAILS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL PROTECT ALL EXISTING UNDERGROUND STRUCTURES AND UTILITIES. CO-OPERATE WITH THE UTILITY COMPANIES IN PROTECTING ALL SERVICES.
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4. VARIANCE FROM THIS DRAWING AND/OR SPECIFICATIONS WILL REQUIRE PRIOR APPROVAL OF THE CITY ENGINEER.

**LEGEND**



NO.	REVISIONS:

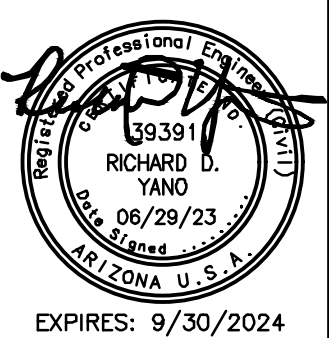
WSP USA Environment & Infrastructure, Inc.  
 4600 E. WASHINGTON STREET, SUITE 600  
 PHOENIX, ARIZONA 85034  
 PHONE: 602-733-6000  
 FAX: 602-733-6100

**3RD STREET PLAN AND PROFILE**  
**KINGMAN DOWNTOWN INFRASTRUCTURE**  
 BEALE ST - 1ST ST TO 6TH ST  
 KINGMAN, ARIZONA

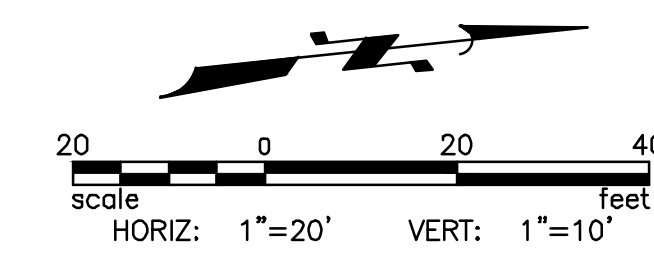
DESIGNED BY: HMR  
 DRAWN BY: AA  
 CHECKED BY: DY  
 DATE: JUNE 2023

EXPIRES: 9/30/2024

PROJECT NO.  
3720205006



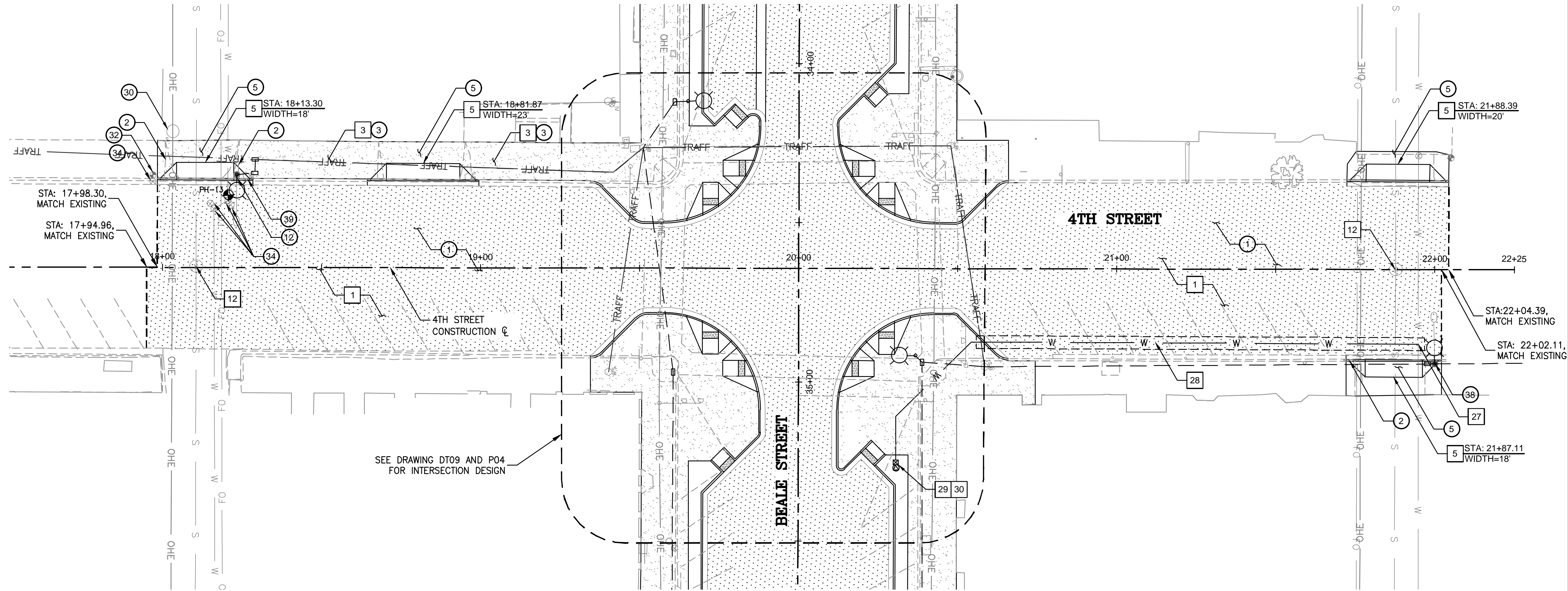
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**P10**  
 SHEET NO. 24 of 63



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POTHOLE DATA				
POTHOLE #	NORTHING	EASTING	ELEVATION	UTILITY
13	1524627.09	409775.84	3343.61	10" WATER



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REMOVALS & ADJUSTMENTS		
NO.	DESCRIPTION	QTY
1	SAWCUT AND REMOVE EXISTING PAVEMENT	1653 SY
2	REMOVE EXISTING CONCRETE CURB & GUTTER	130 LF
3	REMOVE EXISTING CONCRETE SIDEWALK	2341 SF
4	REMOVE EXISTING PEDESTRIAN RAMP	2 EA
12	REMOVE EXISTING STREET LIGHT	1 EA
30	EXISTING UTILITY POLE; PROTECT IN PLACE	NPI
32	EXISTING FIRE HYDRANT; PROTECT IN PLACE	NPI
33	EXISTING MANHOLE; PROTECT IN PLACE	NPI
34	EXISTING VALVE; PROTECT IN PLACE	NPI
38	EXISTING STREET LIGHT; PROTECT IN PLACE	NPI
39	EXISTING JUNCTION BOX; PROTECT IN PLACE	NPI

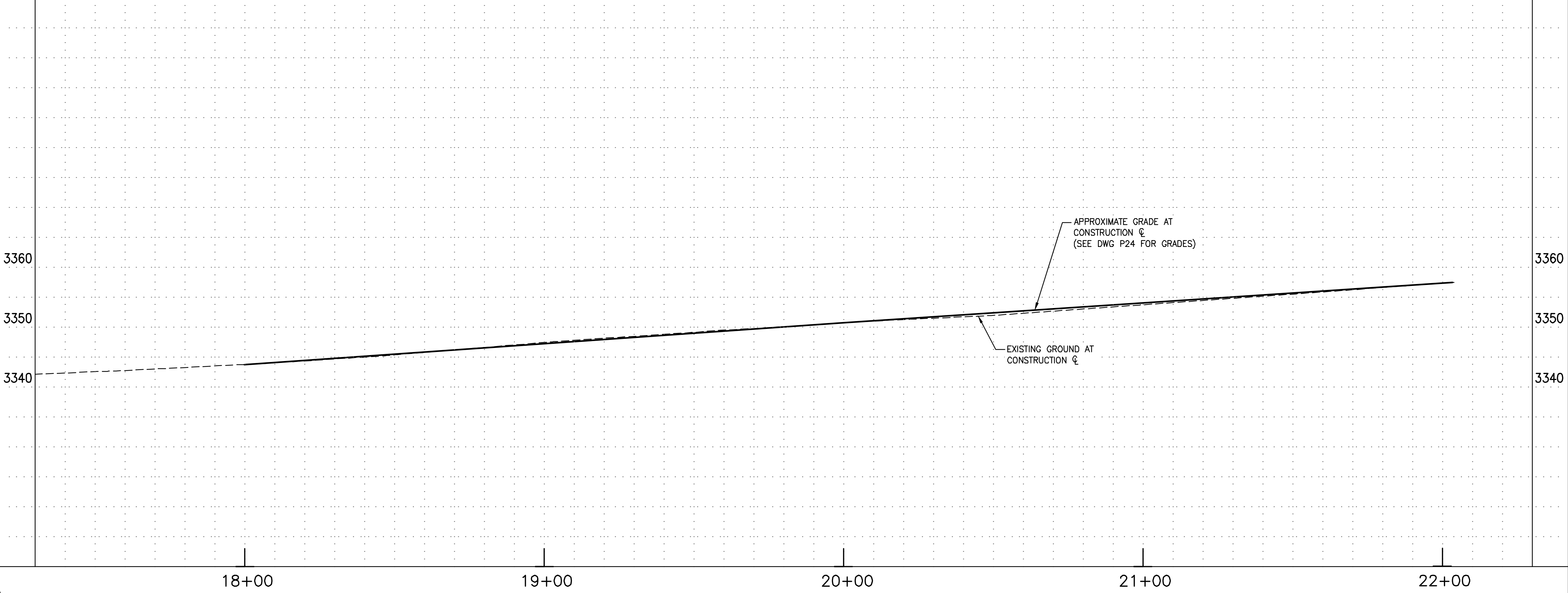
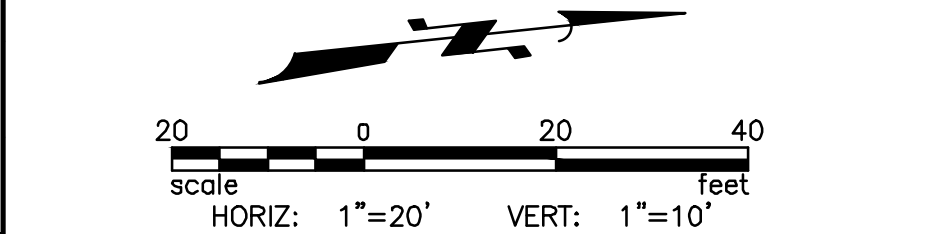
CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY
1	CONSTRUCT ASPHALT PAVEMENT, STRUCTURAL SECTION NO. 1	1844 SY
3	CONSTRUCT CONCRETE SIDEWALK, MAG STD DTL 230	1360 SF
5	CONSTRUCT CONCRETE DRIVEWAY, MAG STD DTL 250-1	917 SF
12	ADJUST & CLEAN EXISTING MANHOLE FRAME AND COVER TO FINISH GRADE, MAG STD DTL 422	2 EA
27	CONNECT 1" COPPER SERVICE TO EXISTING WATER MAIN; SERVICE SADDLE WITH I.P. THREADS	1 EA
28	INSTALL 1" COPPER WATER LINE	140 LF
29	INSTALL 1" IRRIGATION WATER METER	1 EA
30	INSTALL IRRIGATION CONTROLLER	1 EA

- SEE LIGHTING SHEETS FOR ADDITIONAL INFORMATION
- SEE PAVEMENT MARKINGS & SIGNING FOR ADDITIONAL INFORMATION

**GENERAL CONSTRUCTION NOTES**

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION JANUARY 2022 EDITION AND THE CITY OF KINGMAN STANDARD DETAILS AND SPECIFICATIONS.
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- VARIANCE FROM THIS DRAWING AND/OR SPECIFICATIONS WILL REQUIRE PRIOR APPROVAL OF THE CITY ENGINEER.

**LEGEND**



NO.	REVISIONS:

WSP USA Environment & Infrastructure, Inc.  
 4600 E. WASHINGTON STREET, SUITE 600  
 PHOENIX, ARIZONA 85034  
 PHONE: 602-733-6000  
 FAX: 602-733-6100

**4TH STREET PLAN AND PROFILE**  
**KINGMAN DOWNTOWN INFRASTRUCTURE**  
 BEALE ST - 1ST ST TO 6TH ST  
 KINGMAN, ARIZONA

DESIGNED BY: HMR  
 DRAWN BY: AA  
 CHECKED BY: DY  
 DATE: JUNE 2023



PROJECT NO.  
3720205006

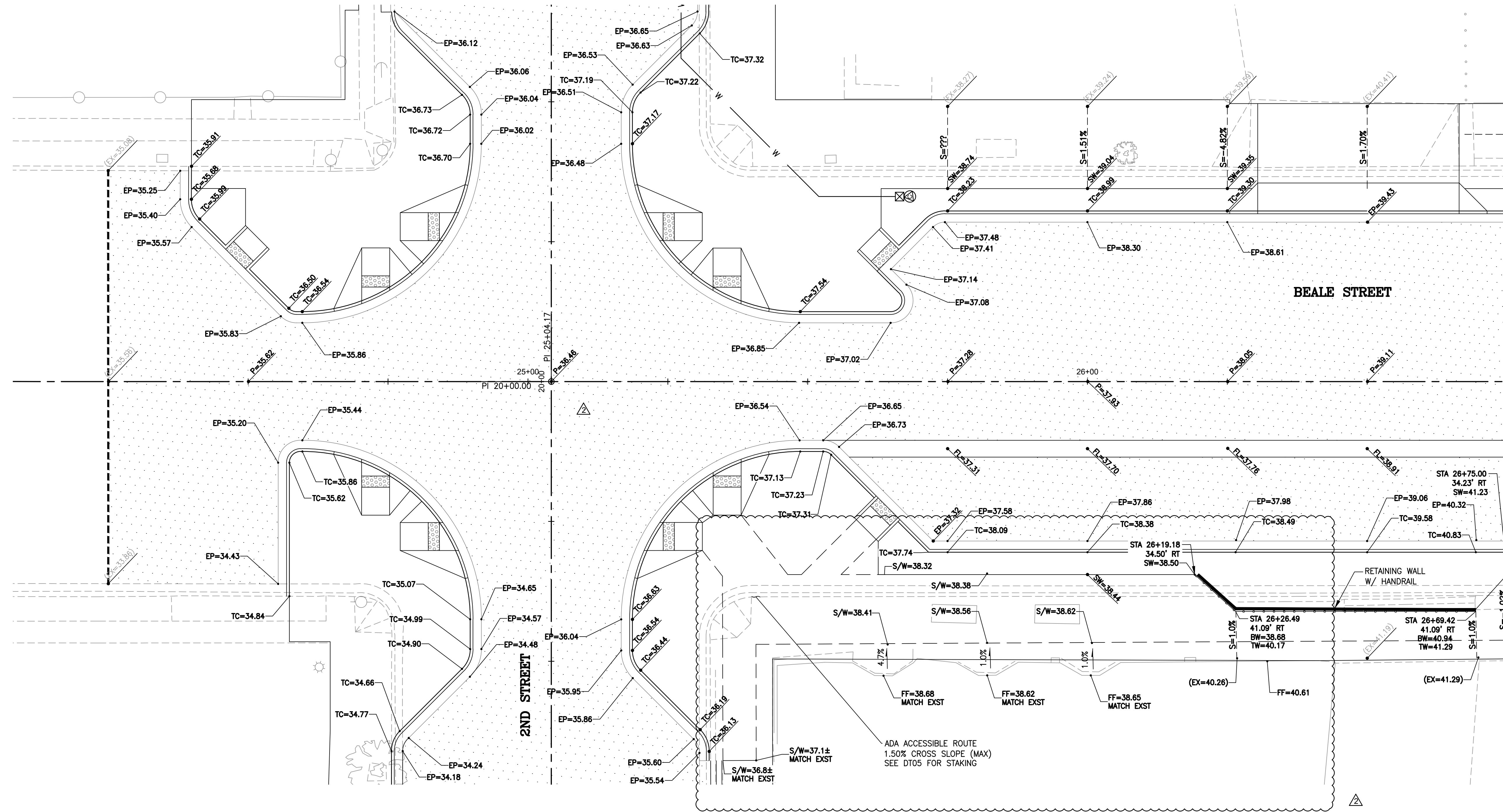
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**P11**

SHEET NO. 25 OF 63

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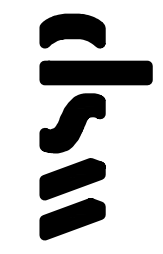
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MATCHLINE STA 26+75  
SEE SHEET P15

REVISIONS:	
1	09/23 RET. WALL STAKING
2	09/23 GRADE REVISIONS AT ENTRYWAYS

WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100



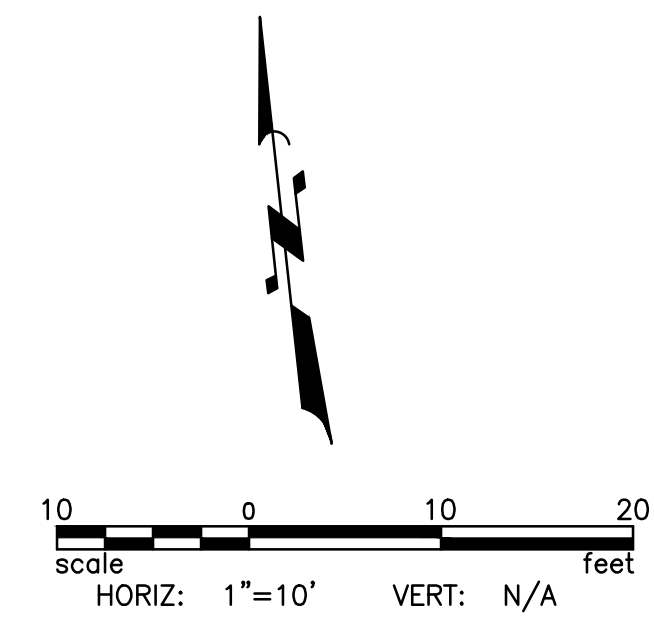
**BEALE STREET GRADES**  
PROJECT: KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023

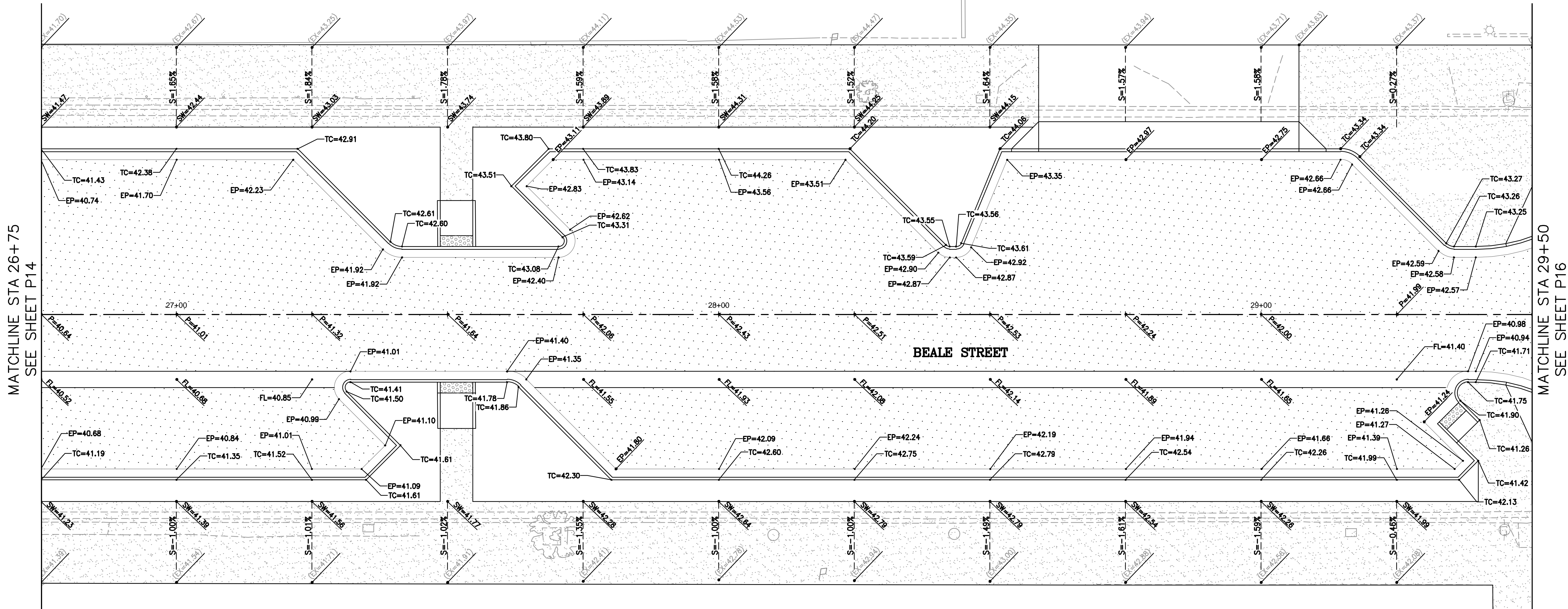


PROJECT NO.  
3720205006

DRAWING NAME  
**P14**  
SHEET NO. 27 of 63



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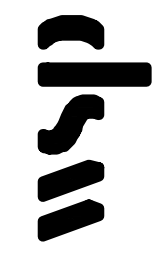
MATCHLINE STA 26+75  
SEE SHEET P14

MATCHLINE STA 29+50  
SEE SHEET P16

BEALE STREET

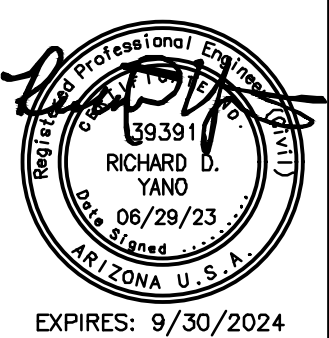
REVISIONS:


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4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100



BEALE STREET GRADES  
KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

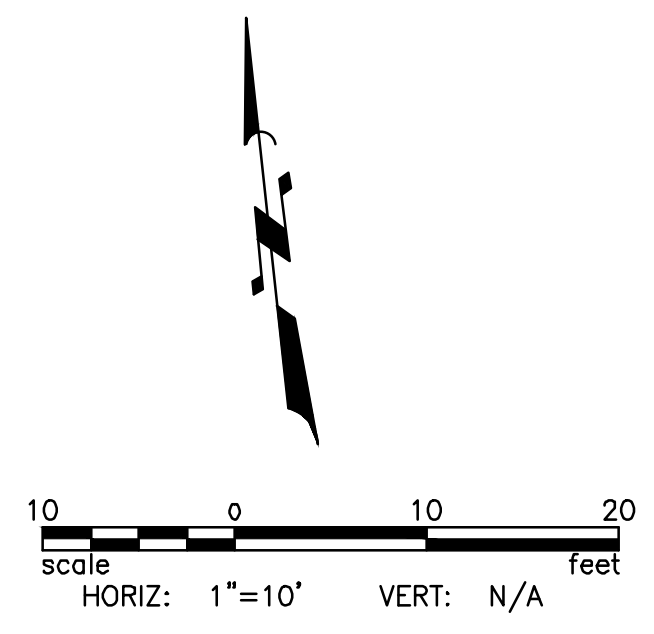
DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023



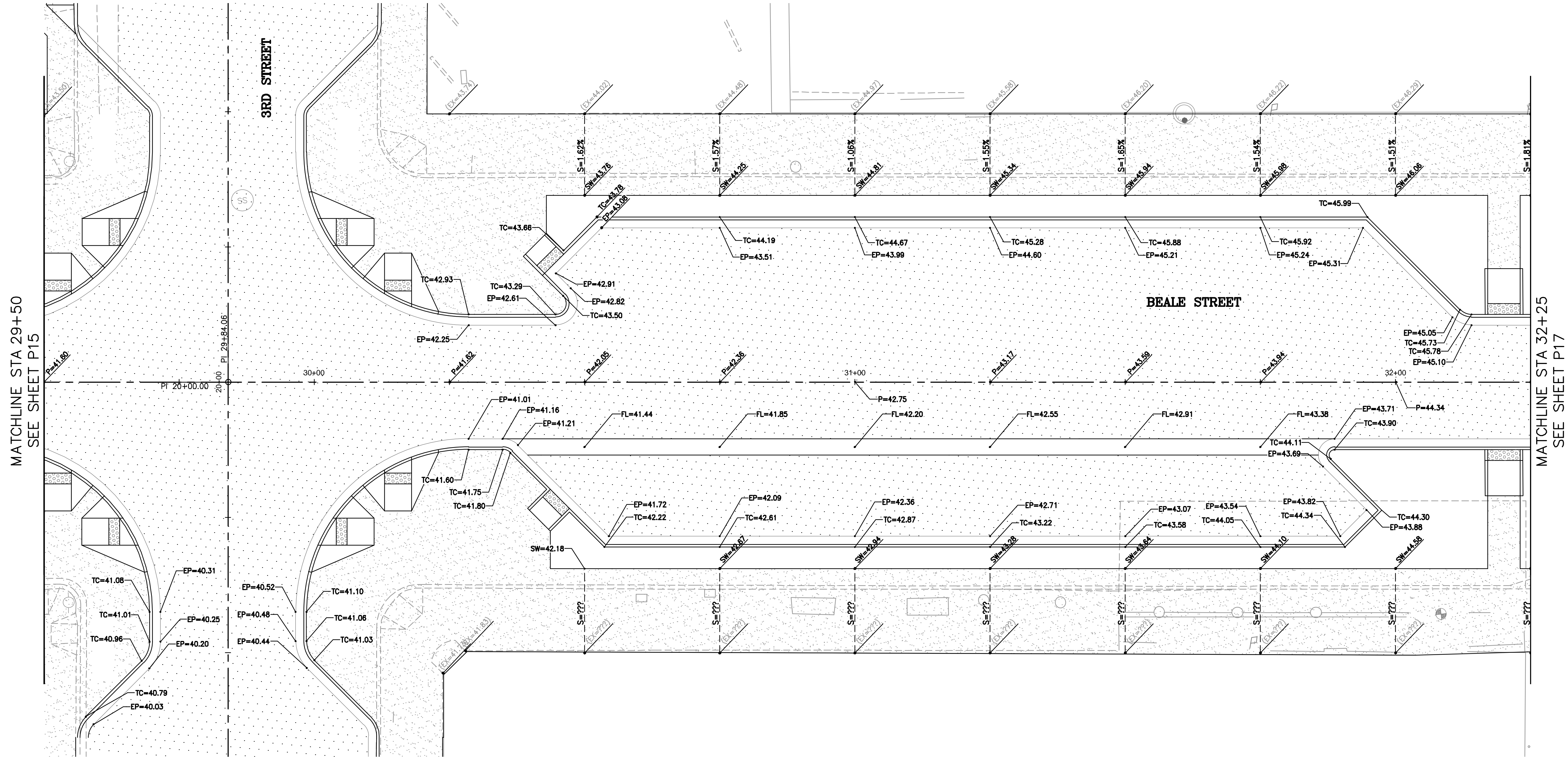
EXPIRES: 9/30/2024

PROJECT NO.  
372025006

DRAWING NAME  
**P15**  
SHEET NO. 28 of 63



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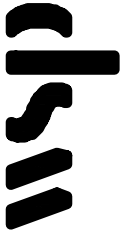


MATCHLINE STA 29+50  
SEE SHEET P15

MATCHLINE STA 32+25  
SEE SHEET P17

REVISIONS:

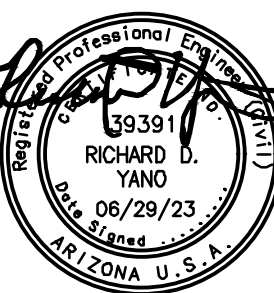
WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100



BEALE STREET GRADES

PROJECT: KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023



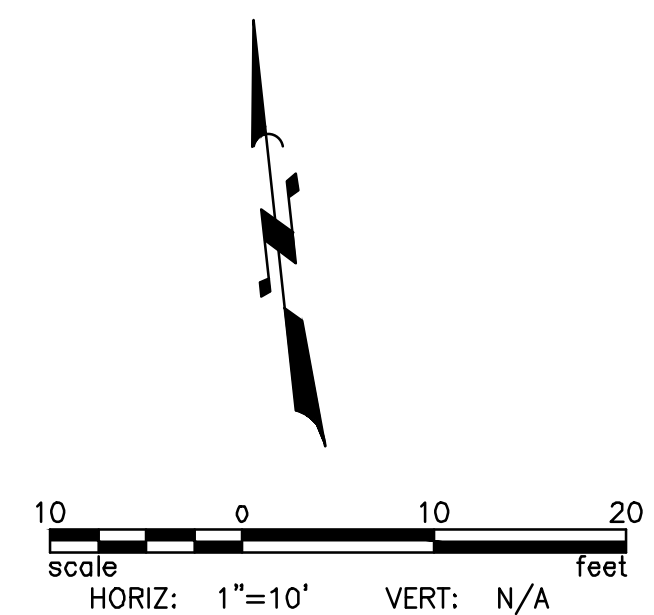
EXPIRES: 9/30/2024

PROJECT NO.  
372025006

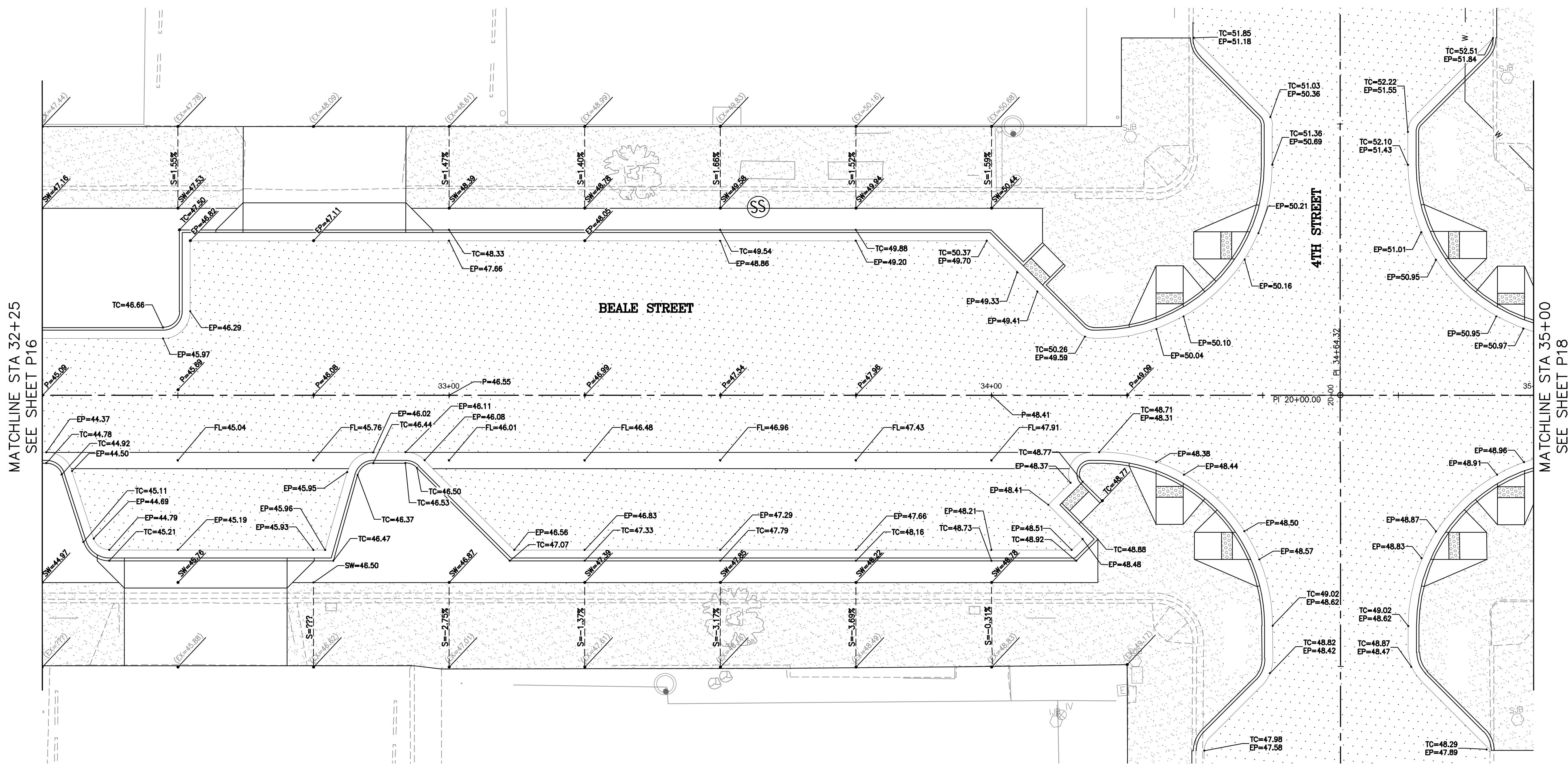
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SHEET NO. 29 of 63



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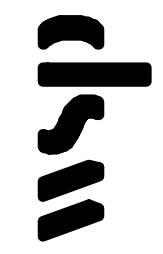


MATCHLINE STA 32+25  
SEE SHEET P16

MATCHLINE STA 35+00  
SEE SHEET P18

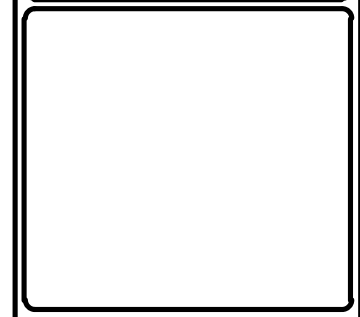
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4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100



**BEALE STREET GRADES**  
KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

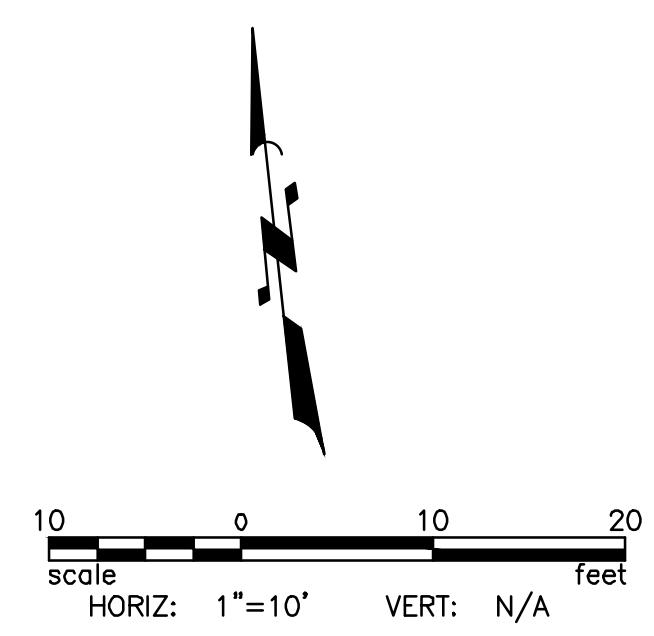
DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023



PROJECT NO.  
3720205006

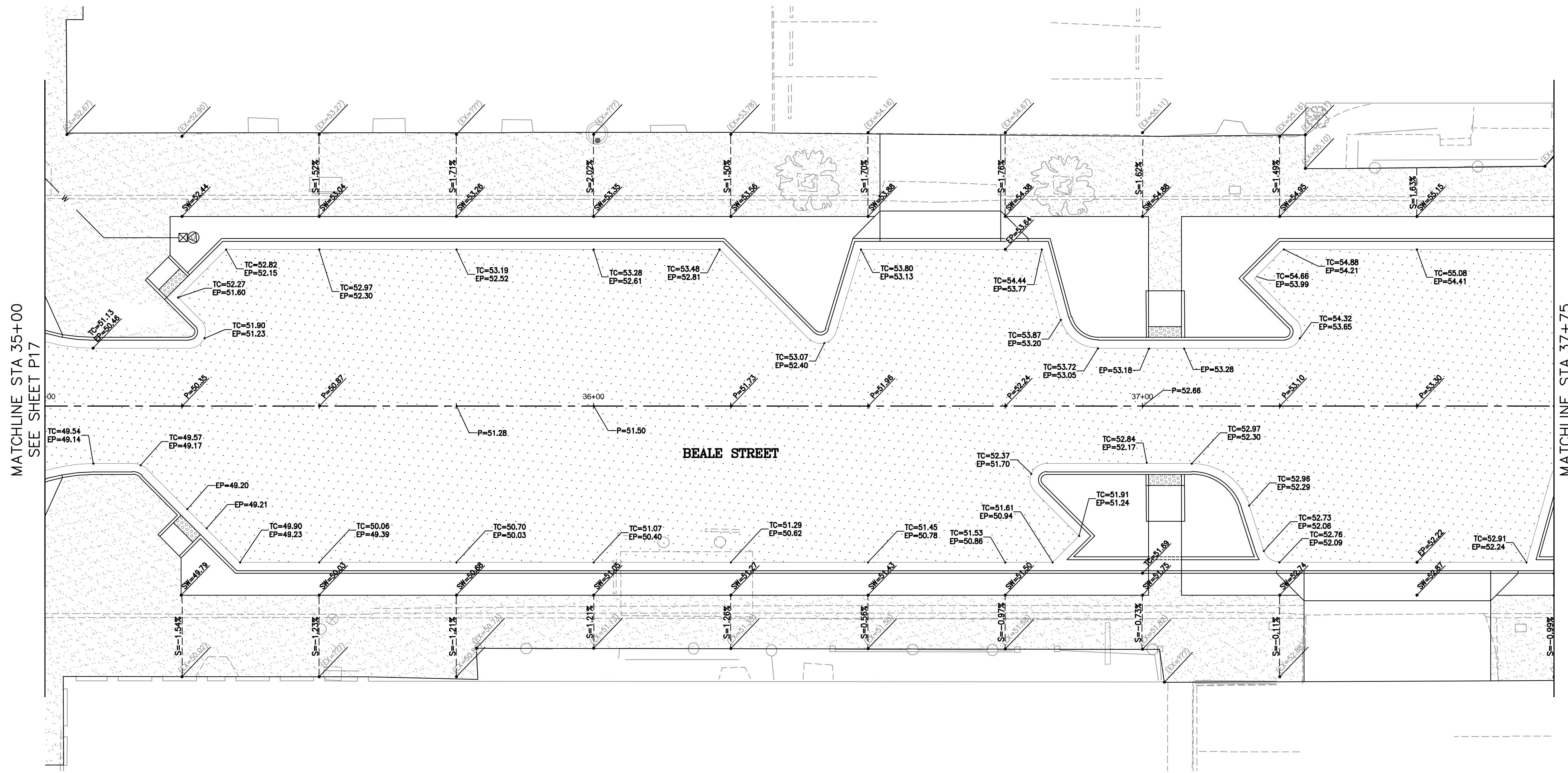
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**P17**

SHEET NO. 30 of 63



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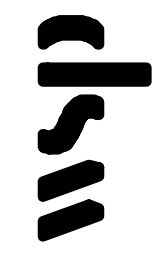


MATCHLINE STA 35+00  
SEE SHEET P17

MATCHLINE STA 37+75  
SEE SHEET P19

REVISIONS:


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PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100



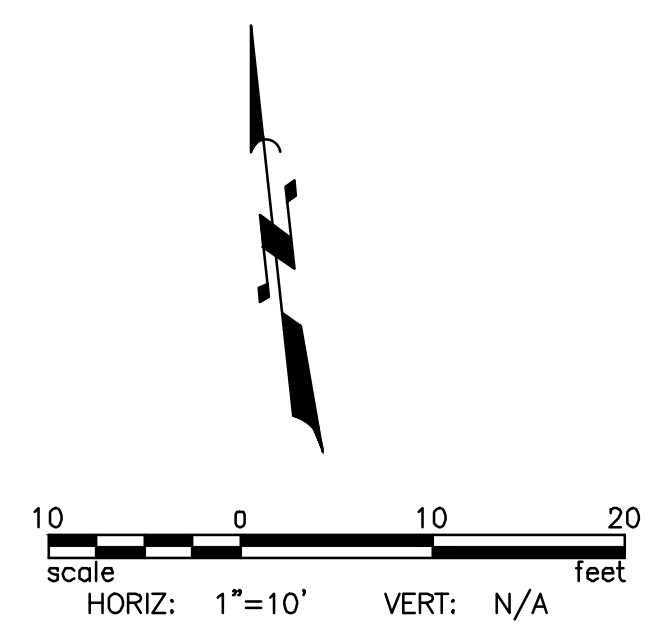
**BEALE STREET GRADES**  
PROJECT: KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023



PROJECT NO.  
3720205006

DRAWING NAME  
**P18**  
SHEET NO. 31 of 63

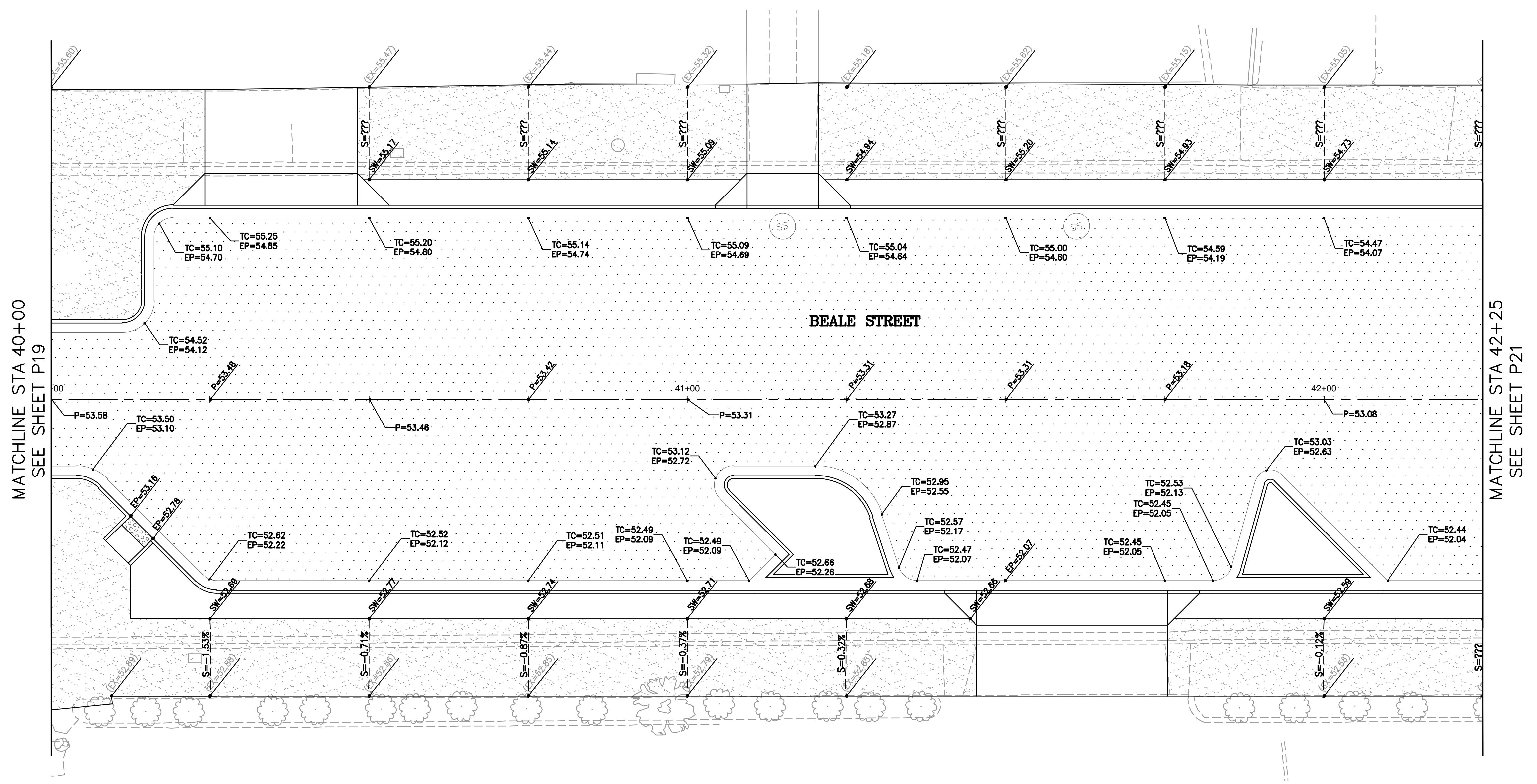


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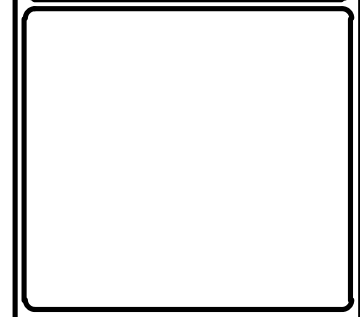


REVISIONS:


WSP USA Environment & Infrastructure, Inc.  
 4600 E. WASHINGTON STREET, SUITE 600  
 PHOENIX, ARIZONA 85034  
 PHONE: 602-733-6000  
 FAX: 602-733-6100

**BEALE STREET GRADES**  
 PROJECT: KINGMAN DOWNTOWN INFRASTRUCTURE  
 BEALE ST - 1ST ST TO 6TH ST  
 KINGMAN, ARIZONA

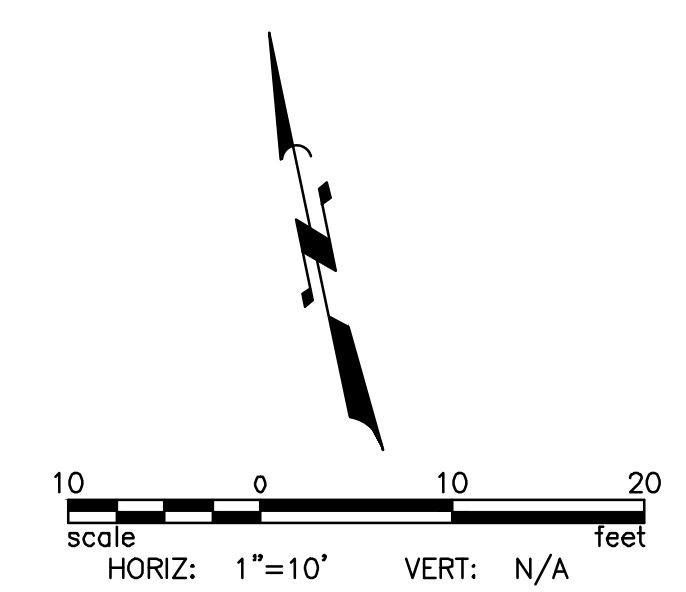
DESIGNED BY: HMR  
 DRAWN BY: AA  
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 DATE: JUNE 2023



EXPIRES: 9/30/2024

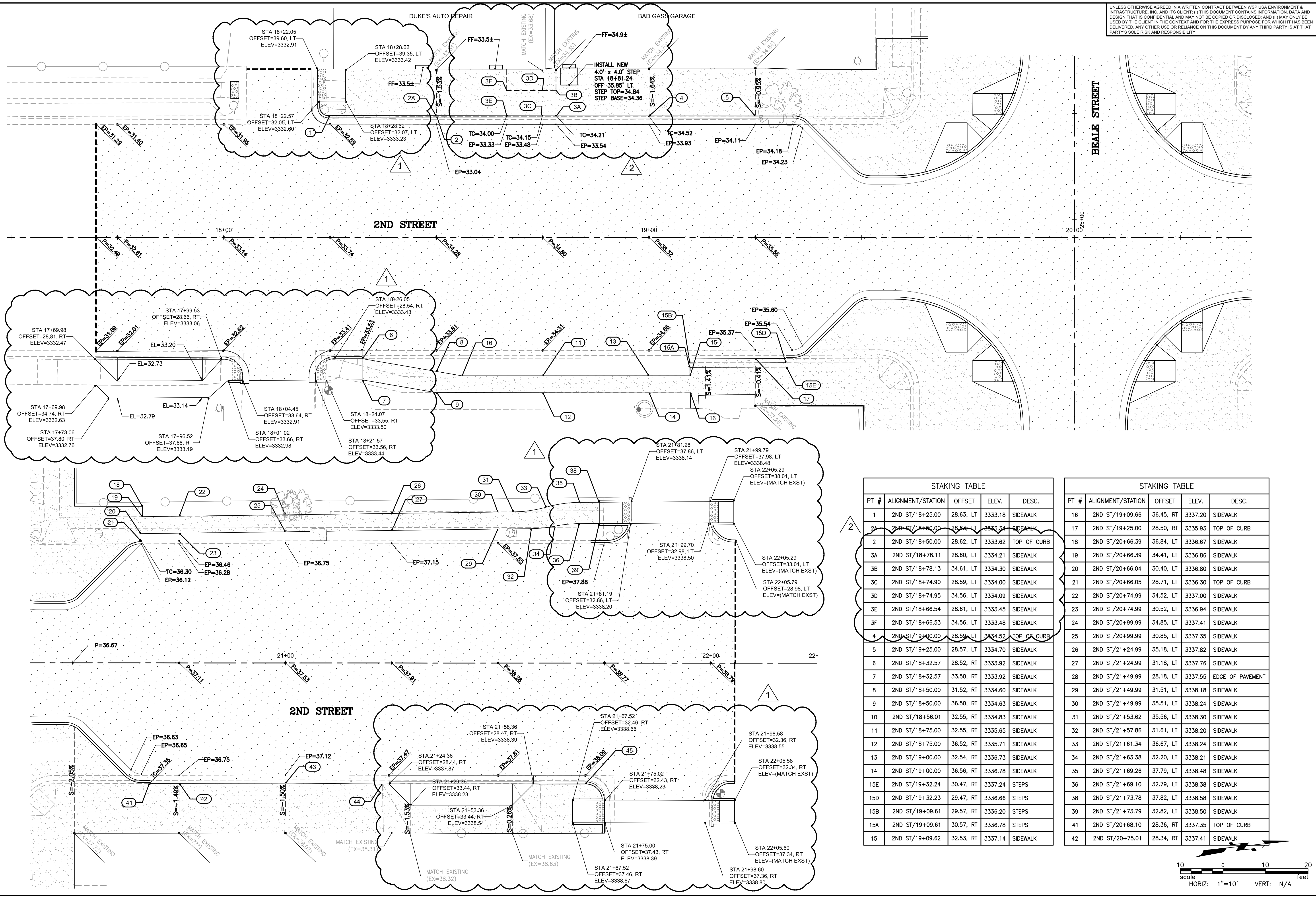
PROJECT NO.  
3720205006

DRAWING NAME  
**P20**  
SHEET NO. 33 of 63





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STAKING TABLE				
PT #	ALIGNMENT/STATION	OFFSET	ELEV.	DESC.
1	2ND ST/18+25.00	28.63, LT	3333.18	SIDEWALK
2A	2ND ST/18+60.00	28.67, LT	3333.34	SIDEWALK
2	2ND ST/18+50.00	28.62, LT	3333.62	TOP OF CURB
3A	2ND ST/18+78.11	28.60, LT	3334.21	SIDEWALK
3B	2ND ST/18+78.13	34.61, LT	3334.30	SIDEWALK
3C	2ND ST/18+74.90	28.59, LT	3334.00	SIDEWALK
3D	2ND ST/18+74.95	34.56, LT	3334.09	SIDEWALK
3E	2ND ST/18+66.54	28.61, LT	3333.45	SIDEWALK
3F	2ND ST/18+66.53	34.56, LT	3333.48	SIDEWALK
4	2ND ST/19+00.00	28.59, LT	3334.52	TOP OF CURB
5	2ND ST/19+25.00	28.57, LT	3334.70	SIDEWALK
6	2ND ST/18+32.57	28.52, RT	3333.92	SIDEWALK
7	2ND ST/18+32.57	33.50, RT	3333.92	SIDEWALK
8	2ND ST/18+50.00	31.52, RT	3334.60	SIDEWALK
9	2ND ST/18+50.00	36.50, RT	3334.63	SIDEWALK
10	2ND ST/18+56.01	32.55, RT	3334.83	SIDEWALK
11	2ND ST/18+75.00	32.55, RT	3335.65	SIDEWALK
12	2ND ST/18+75.00	36.52, RT	3335.71	SIDEWALK
13	2ND ST/19+00.00	32.54, RT	3336.73	SIDEWALK
14	2ND ST/19+00.00	36.56, RT	3336.78	SIDEWALK
15E	2ND ST/19+32.24	30.47, RT	3337.24	STEPS
15D	2ND ST/19+32.23	29.47, RT	3336.66	STEPS
15B	2ND ST/19+09.61	30.57, RT	3336.20	STEPS
15A	2ND ST/19+09.61	30.57, RT	3336.78	STEPS
15	2ND ST/19+09.62	32.53, RT	3337.14	SIDEWALK

STAKING TABLE				
PT #	ALIGNMENT/STATION	OFFSET	ELEV.	DESC.
16	2ND ST/19+09.66	36.45, RT	3337.20	SIDEWALK
17	2ND ST/19+25.00	28.50, RT	3335.93	TOP OF CURB
18	2ND ST/20+66.39	36.84, LT	3336.67	SIDEWALK
19	2ND ST/20+66.39	34.41, LT	3336.86	SIDEWALK
20	2ND ST/20+66.04	30.40, LT	3336.80	SIDEWALK
21	2ND ST/20+66.05	28.71, LT	3336.30	TOP OF CURB
22	2ND ST/20+74.99	34.52, LT	3337.00	SIDEWALK
23	2ND ST/20+74.99	30.52, LT	3336.94	SIDEWALK
24	2ND ST/20+99.99	34.85, LT	3337.41	SIDEWALK
25	2ND ST/20+99.99	30.85, LT	3337.35	SIDEWALK
26	2ND ST/21+24.99	35.18, LT	3337.82	SIDEWALK
27	2ND ST/21+24.99	31.18, LT	3337.76	SIDEWALK
28	2ND ST/21+49.99	28.18, LT	3337.55	EDGE OF PAVEMENT
29	2ND ST/21+49.99	31.51, LT	3338.18	SIDEWALK
30	2ND ST/21+49.99	35.51, LT	3338.24	SIDEWALK
31	2ND ST/21+53.62	35.56, LT	3338.30	SIDEWALK
32	2ND ST/21+57.86	31.61, LT	3338.20	SIDEWALK
33	2ND ST/21+61.34	36.67, LT	3338.24	SIDEWALK
34	2ND ST/21+63.38	32.20, LT	3338.21	SIDEWALK
35	2ND ST/21+69.26	37.79, LT	3338.48	SIDEWALK
36	2ND ST/21+69.10	32.79, LT	3338.38	SIDEWALK
38	2ND ST/21+73.78	37.82, LT	3338.58	SIDEWALK
39	2ND ST/21+73.79	32.82, LT	3338.50	SIDEWALK
41	2ND ST/20+68.10	28.36, RT	3337.35	TOP OF CURB
42	2ND ST/20+75.01	28.34, RT	3337.41	SIDEWALK

**REVISIONS:**

7-25-23	ADDED STATION/OFFSET/ELEVATION
9-06-23	ADDED STEP UP TO BAD GAS GARAGE ENTRY

**WSP USA Environment & Infrastructure, Inc.**  
 4600 E. WASHINGTON STREET, SUITE 600  
 PHOENIX, ARIZONA 85034  
 PHONE: 602-733-6000  
 FAX: 602-733-6100

**PROJECT:** KINGMAN DOWNTOWN INFRASTRUCTURE  
 BEALE ST - 1ST ST TO 6TH ST  
 KINGMAN, ARIZONA

DESIGNED BY: HMR  
 DRAWN BY: AA  
 CHECKED BY: DY  
 DATE: JUNE 2023

EXPIRES: 9/30/2024

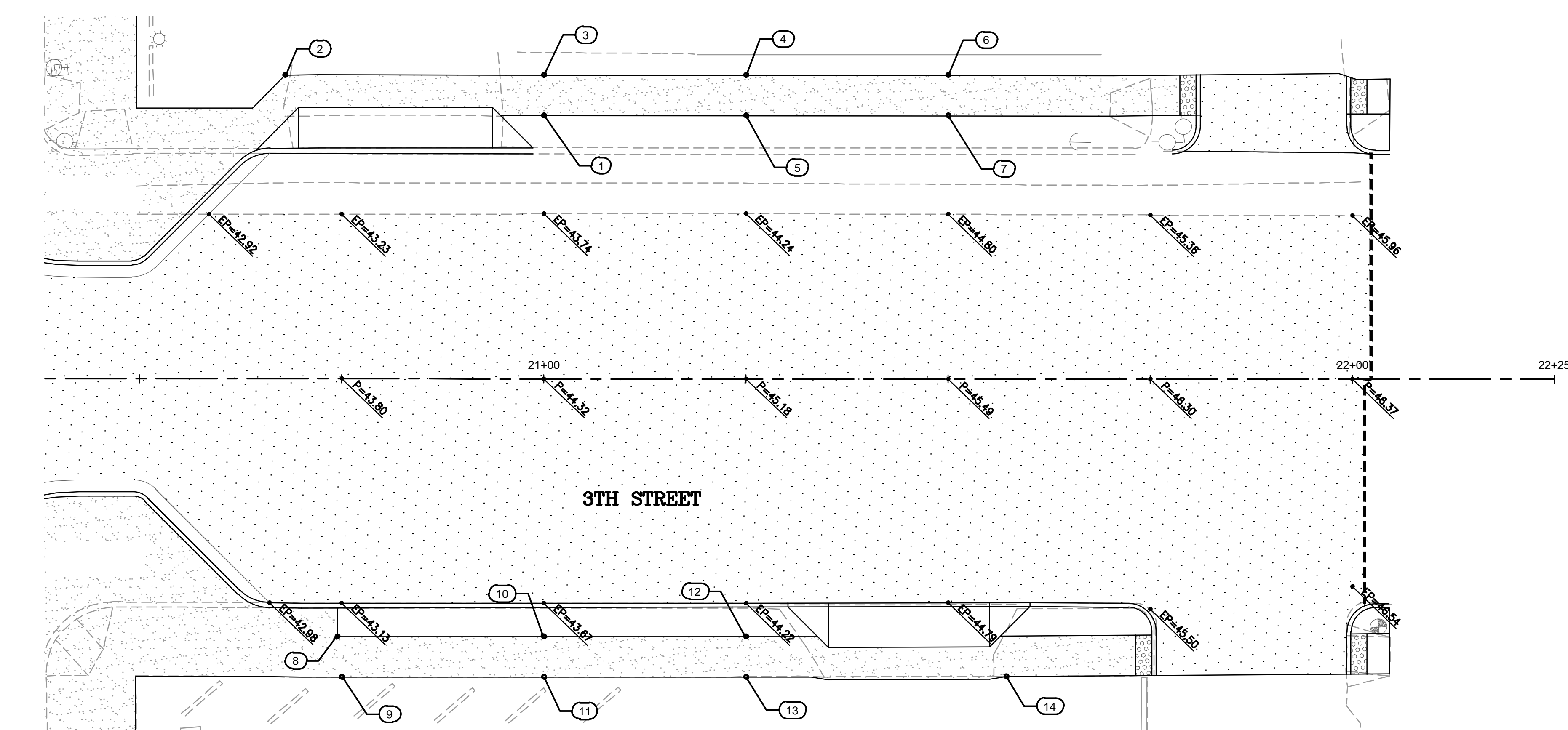
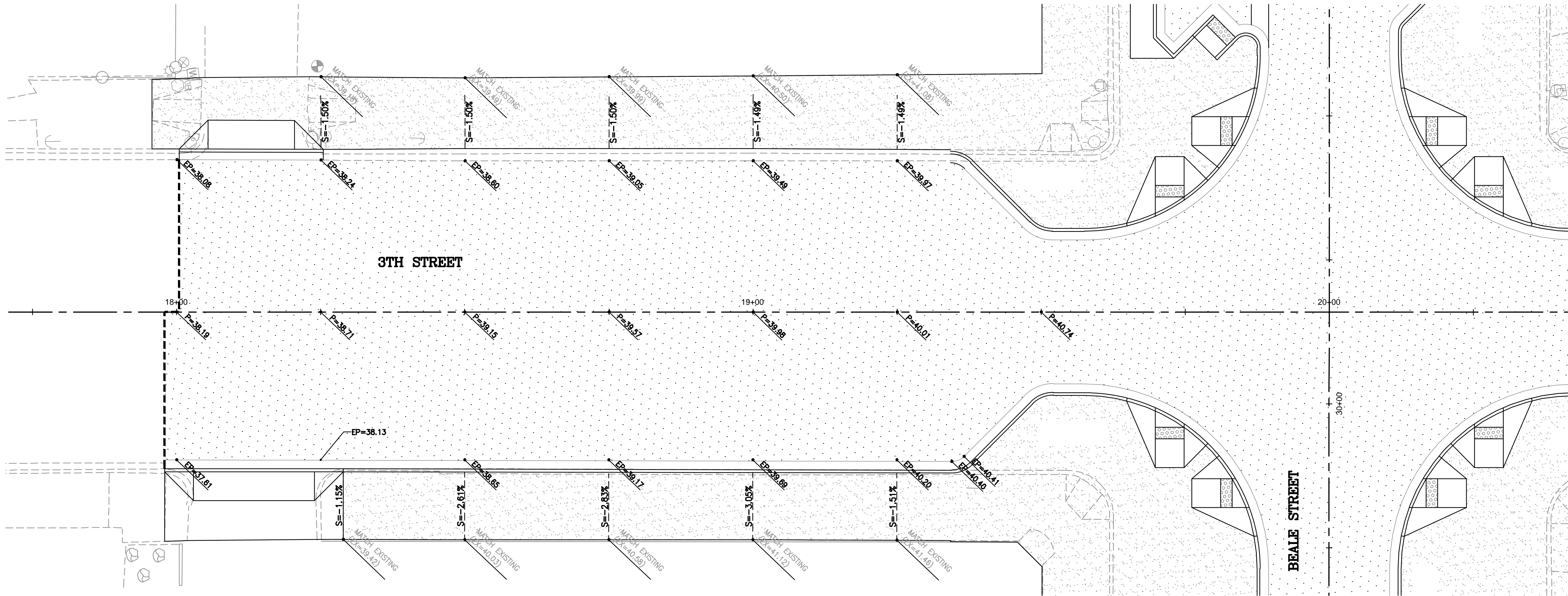
PROJECT NO. 372025006

DRAWING NAME **P22**

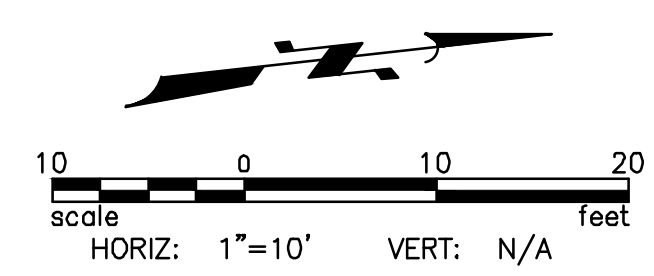
SHEET NO. 35 OF 63

File: C:\Infrastructure\Trans\Projects\2020\07\2025006\Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-P22.dwg

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STAKING TABLE				
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION	DESCRIPTION
2	3RD ST/20+67.98	37.50, LT	3343.99	SIDEWALK
3	3RD ST/20+99.99	37.54, LT	3346.00	SIDEWALK
4	3RD ST/21+24.99	37.53, LT	3346.18	SIDEWALK
5	3RD ST/21+24.99	32.53, LT	3346.11	SIDEWALK
6	3RD ST/21+49.99	37.53, LT	3346.36	SIDEWALK
7	3RD ST/21+49.99	32.53, LT	3346.28	SIDEWALK
8	3RD ST/20+74.49	31.86, RT	3343.92	SIDEWALK
9	3RD ST/20+75.01	36.86, RT	3344.11	SIDEWALK
10	3RD ST/21+00.01	31.85, RT	3344.56	SIDEWALK
11	3RD ST/21+00.01	36.85, RT	3344.64	SIDEWALK
12	3RD ST/21+25.01	31.85, RT	3345.08	SIDEWALK
13	3RD ST/21+25.01	36.83, RT	3345.16	SIDEWALK
14	3RD ST/21+57.21	36.77, RT	3345.86	SIDEWALK



REVISIONS:


WSP USA Environment & Infrastructure, Inc.  
 4600 E. WASHINGTON STREET, SUITE 600  
 PHOENIX, ARIZONA 85034  
 PHONE: 602-733-6000  
 FAX: 602-733-6100

**3RD STREET GRADES**  
 KINGMAN DOWNTOWN INFRASTRUCTURE  
 BEALE ST - 1ST ST TO 6TH ST  
 KINGMAN, ARIZONA

DESIGNED BY: HMR  
 DRAWN BY: AA  
 CHECKED BY: DY  
 DATE: JUNE 2023



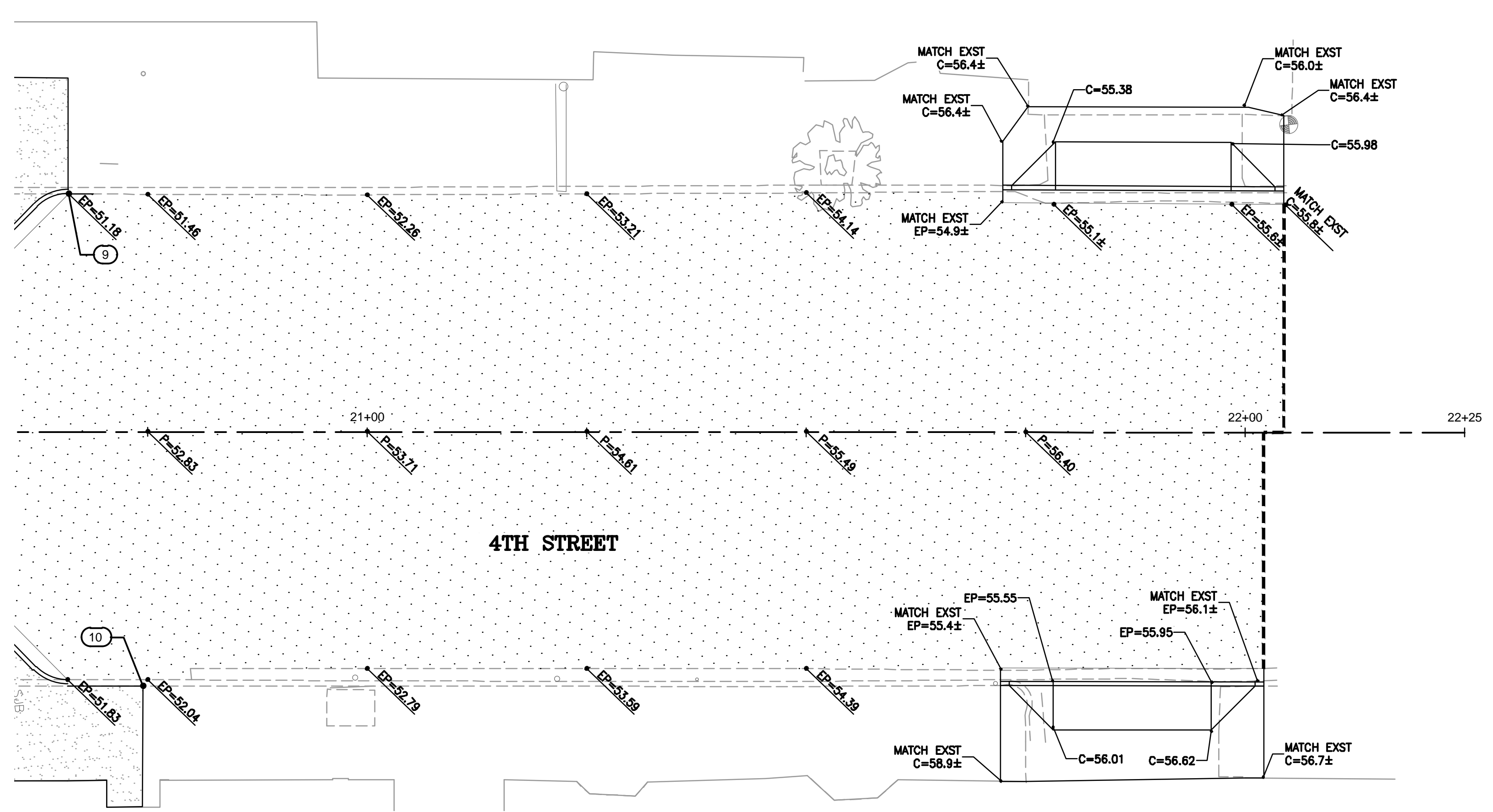
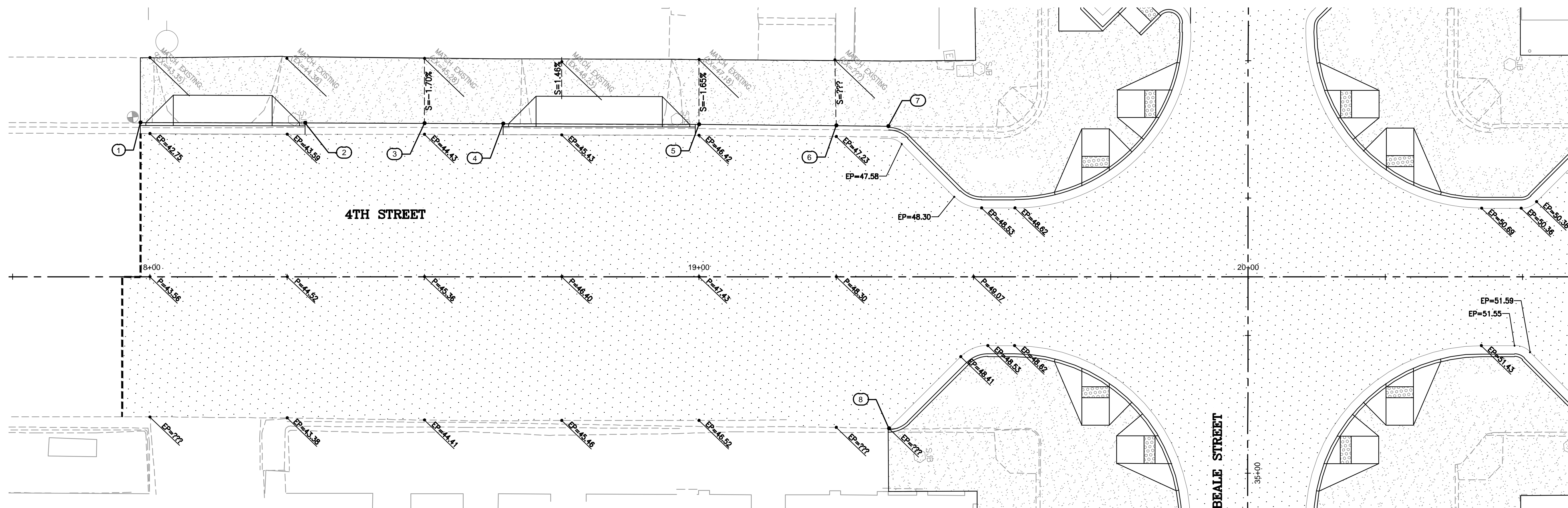
EXPIRES: 9/30/2024

PROJECT NO.  
3720205006

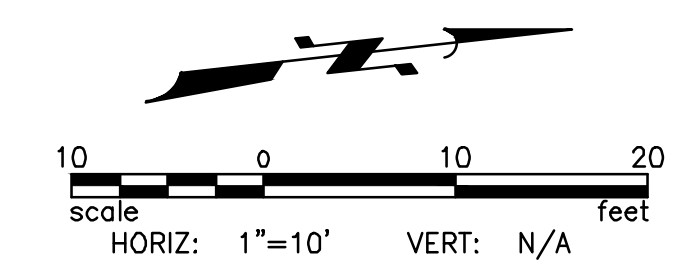
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**P23**  
SHEET NO. 36 of 63

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STAKING TABLE				
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION	DESCRIPTION
1	4TH ST/17+98.30	28.04, LT	3343.22	SIDEWALK
2	4TH ST/18+28.30	27.94, LT	3344.15	SIDEWALK
3	4TH ST/18+50.00	27.91, LT	3345.08	SIDEWALK
4	4TH ST/18+64.37	27.84, LT	3345.61	SIDEWALK
5	4TH ST/19+00.00	27.70, LT	3346.99	SIDEWALK
6	4TH ST/19+25.00	27.49, LT	3347.85	SIDEWALK
7	4TH ST/19+34.50	27.40, LT	3348.18	SIDEWALK
8	4TH ST/19+34.62	27.56, RT	???	EDGE OF PAVEMENT
9	4TH ST/20+65.97	27.09, LT	3351.18	EDGE OF PAVEMENT
10	4TH ST/20+74.45	28.92, RT	3352.00	SIDEWALK

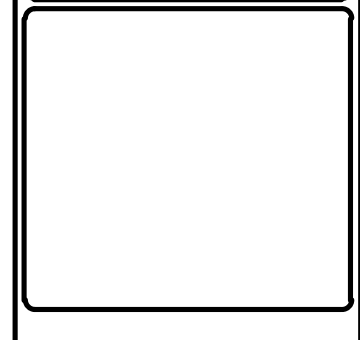


REVISIONS:


WSP USA Environment & Infrastructure, Inc.  
 4600 E. WASHINGTON STREET, SUITE 600  
 PHOENIX, ARIZONA 85034  
 PHONE: 602-733-6000  
 FAX: 602-733-6100

4TH STREET GRADES  
 KINGMAN DOWNTOWN INFRASTRUCTURE  
 BEALE ST - 1ST ST TO 6TH ST  
 KINGMAN, ARIZONA

DESIGNED BY: HMR  
 DRAWN BY: AA  
 CHECKED BY: DY  
 DATE: JUNE 2023



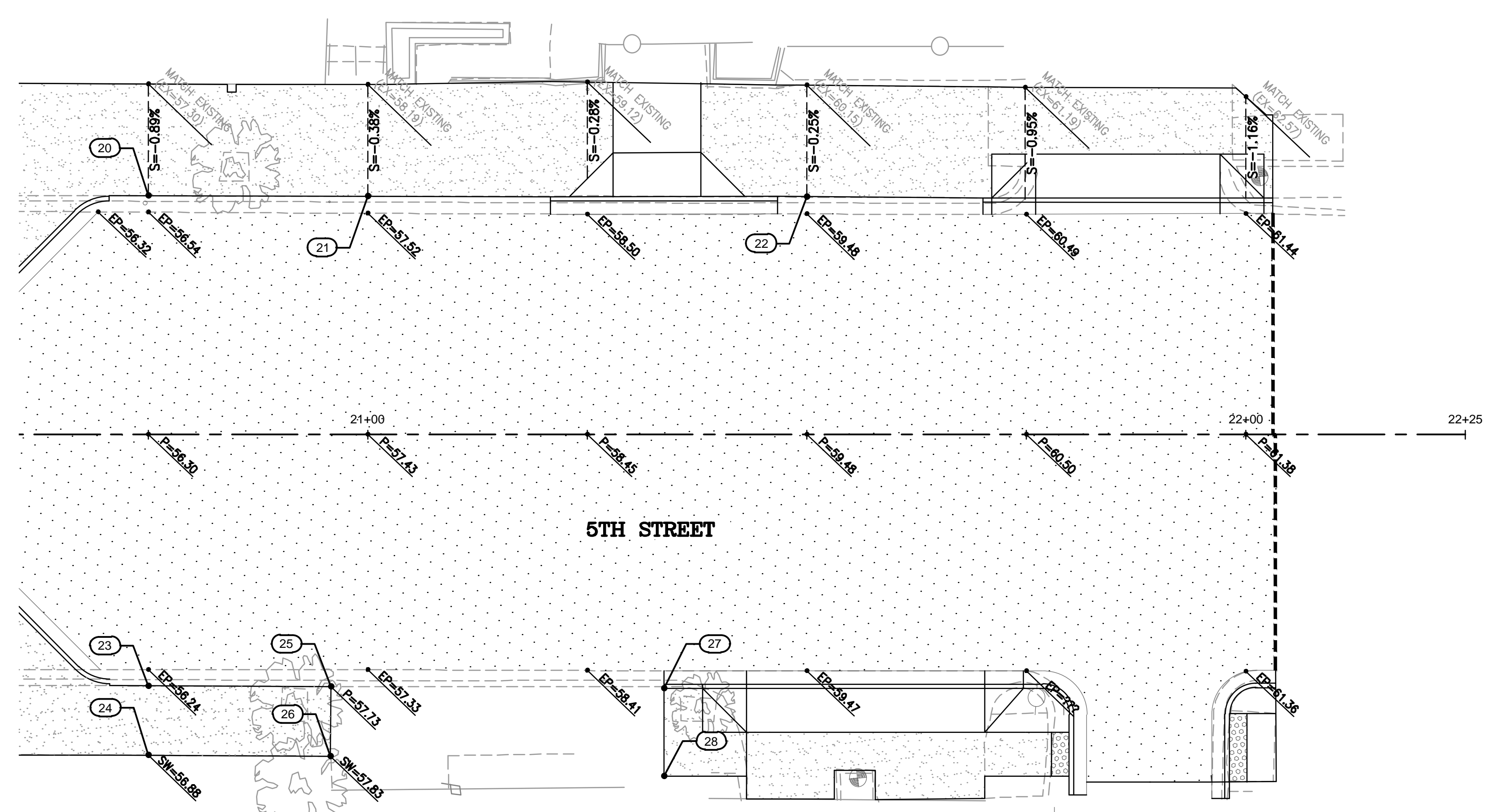
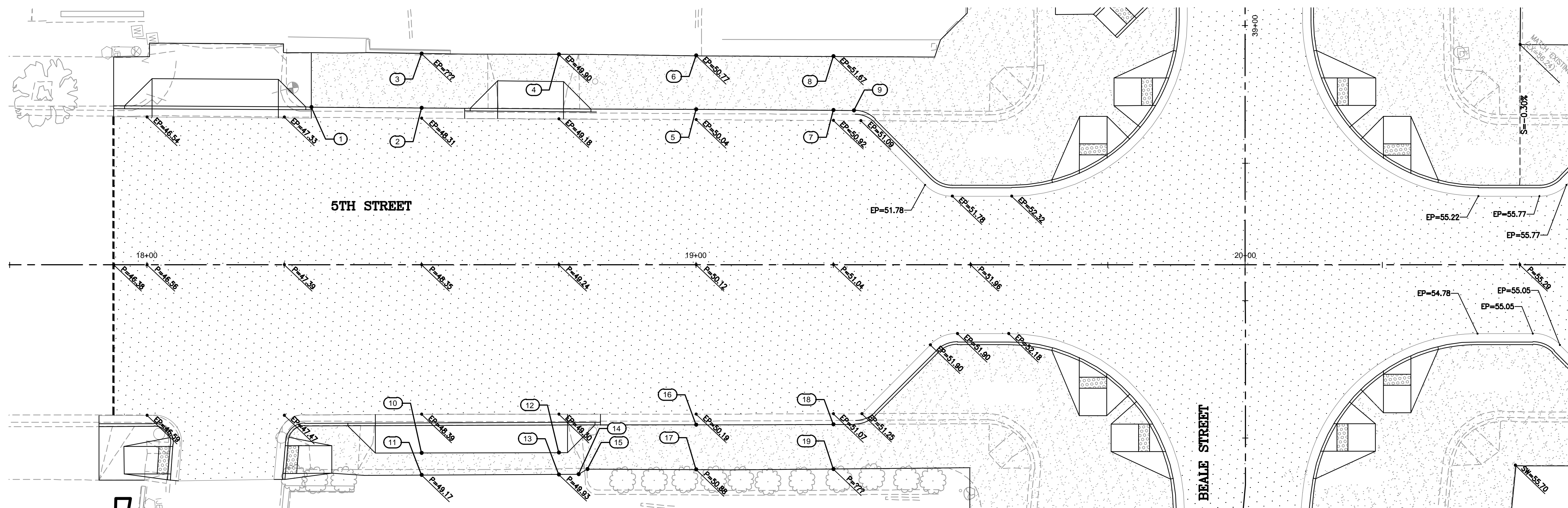
EXPIRES: 9/30/2024

PROJECT NO.  
3720205006

DRAWING NAME  
**P24**  
SHEET NO. 37 of 63

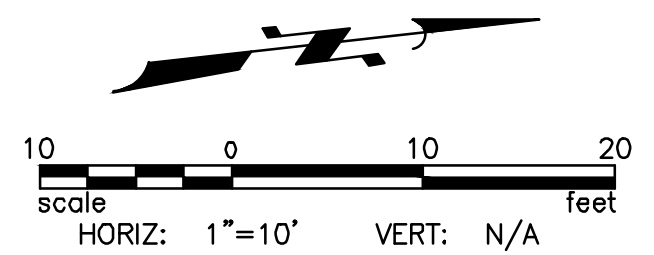
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STAKING TABLE				
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION	DESCRIPTION
1	5TH ST/18+29.89	28.69, LT	3348.17	SIDEWALK
2	5TH ST/18+50.00	28.54, LT	3348.89	SIDEWALK
3	5TH ST/18+50.00	38.40, LT	???	SIDEWALK
4	5TH ST/18+75.00	38.28, LT	???	SIDEWALK
5	5TH ST/19+00.00	28.25, LT	3350.62	SIDEWALK
6	5TH ST/19+00.00	38.02, LT	???	SIDEWALK
7	5TH ST/19+25.00	28.09, LT	3351.51	SIDEWALK
8	5TH ST/19+25.00	37.89, LT	???	SIDEWALK
9	5TH ST/19+28.72	28.07, LT	3351.64	SIDEWALK
10	5TH ST/18+50.00	34.21, RT	3348.85	SIDEWALK
11	5TH ST/18+50.00	38.21, RT	3349.17	SIDEWALK
12	5TH ST/18+75.00	34.12, RT	3349.76	SIDEWALK
13	5TH ST/18+75.00	38.12, RT	3349.93	SIDEWALK
14	5TH ST/18+78.58	38.11, RT	3350.03	SIDEWALK
15	5TH ST/18+80.16	37.15, RT	3350.15	SIDEWALK
16	5TH ST/19+00.00	29.10, RT	3350.77	SIDEWALK
17	5TH ST/19+00.00	37.22, RT	3350.88	SIDEWALK
18	5TH ST/19+25.00	29.05, RT	3351.68	SIDEWALK
19	5TH ST/19+25.00	37.11, RT	3351.78	SIDEWALK
20	5TH ST/20+75.00	27.22, LT	3357.18	SIDEWALK
21	5TH ST/21+00.00	27.16, LT	3358.15	SIDEWALK
22	5TH ST/21+50.00	27.13, LT	3360.12	SIDEWALK

STAKING TABLE				
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION	DESCRIPTION
23	5TH ST/20+75.00	28.64, RT	3356.85	SIDEWALK
24	5TH ST/20+75.00	36.55, RT	3356.88	SIDEWALK
25	5TH ST/20+95.80	28.73, RT	3357.73	SIDEWALK
26	5TH ST/20+95.76	36.64, RT	3357.83	SIDEWALK
27	5TH ST/21+33.77	28.93, RT	???	SIDEWALK
28	5TH ST/21+33.77	38.93, RT	???	SIDEWALK



REVISIONS:

WSP USA Environment & Infrastructure, Inc.  
 4600 E. WASHINGTON STREET, SUITE 600  
 PHOENIX, ARIZONA 85034  
 PHONE: 602-733-6000  
 FAX: 602-733-6100

PROJECT: KINGMAN DOWNTOWN INFRASTRUCTURE  
 BEALE ST - 1ST ST TO 6TH ST  
 KINGMAN, ARIZONA

DESIGNED BY: HMR  
 DRAWN BY: AA  
 CHECKED BY: DY  
 DATE: JUNE 2023

EXPIRES: 9/30/2024

PROJECT NO.  
 3720205006

DRAWING NAME  
**P25**

SHEET NO. 38 of 63

File: C:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-P22.dwg

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**CONSTRUCTION NOTES**

NO.	DESCRIPTION	QTY
18	INSTALL NEW 4" WHITE PAVEMENT MARKINGS	4417 LF
19	INSTALL NEW 12" WHITE STOP BAR	204 LF
20	INSTALL NEW ACCESSIBLE PARKING SPACE SYMBOL	9 EA
21	INSTALL NEW SIGN POST AND FOUNDATION PER ADOT STD DTL S-3	33 EA
22	MOUNT SIGN ON THE PROPOSED LIGHT POLE	5 EA
23	REMOVE AND REPLACE EXISTING SIGN	31 EA
24	REMOVE EXISTING SIGN	15 EA
26	INSTALL FLASHING LED EQUIPMENT FOR STOP SIGN PER DETAIL T-1 (SEE PM02)	2 EA
45	INSTALL NEW 12" CROSSWALK LINE	1393 LF

REVISIONS:  
ADDED/REMOVED SIGNS

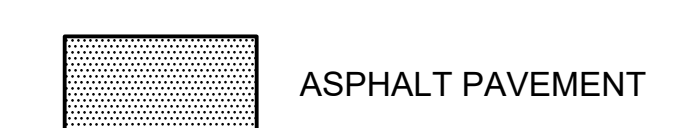
**PAVEMENT MARKING NOTES**

- USE WATERBORNE PAINT FOR ALL PARKING LOT MARKINGS, INCLUDING STALLS, LEGENDS AND OTHER MARKINGS.
- USE THERMOPLASTIC FOR STOP BARS AND CROSSWALKS.
- IN THE INTERIM CONDITION, PRIOR TO FINAL PAVEMENT INSTALL PARKING LOT AND STOP BAR PAVEMENT MARKINGS USING WATERBORNE PAINT.
- PAVEMENT MARKING QUANTITIES ARE DOUBLED IN FINAL ESTIMATE TO ACCOUNT FOR INTERIM AND FINAL CONDITIONS

**GENERAL CONSTRUCTION NOTES**

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION JANUARY 2022 EDITION AND THE CITY OF KINGMAN STANDARD DETAILS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING UNDERGROUND STRUCTURES AND UTILITIES. CO-OPERATE WITH THE UTILITY COMPANIES IN PROTECTING ALL SERVICES.
- EXACT LOCATIONS OF EXISTING UTILITIES SHOWN ARE UNKNOWN. LOCATIONS AS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND BURIED CABLES PRIOR TO CONSTRUCTION BY CALLING BLUESTAKE 1-800-STAKE-IT, AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- VARIANCE FROM THIS DRAWING AND/OR SPECIFICATIONS WILL REQUIRE PRIOR APPROVAL OF THE CITY ENGINEER.

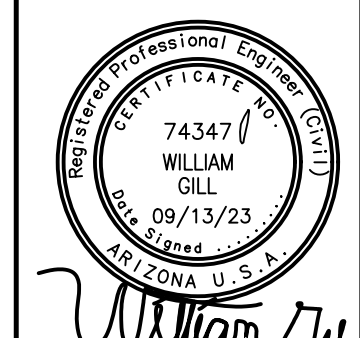
**LEGEND**



WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100

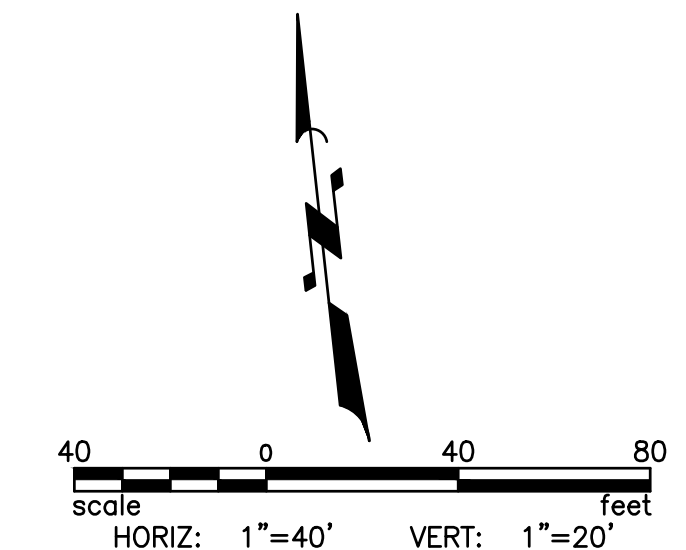
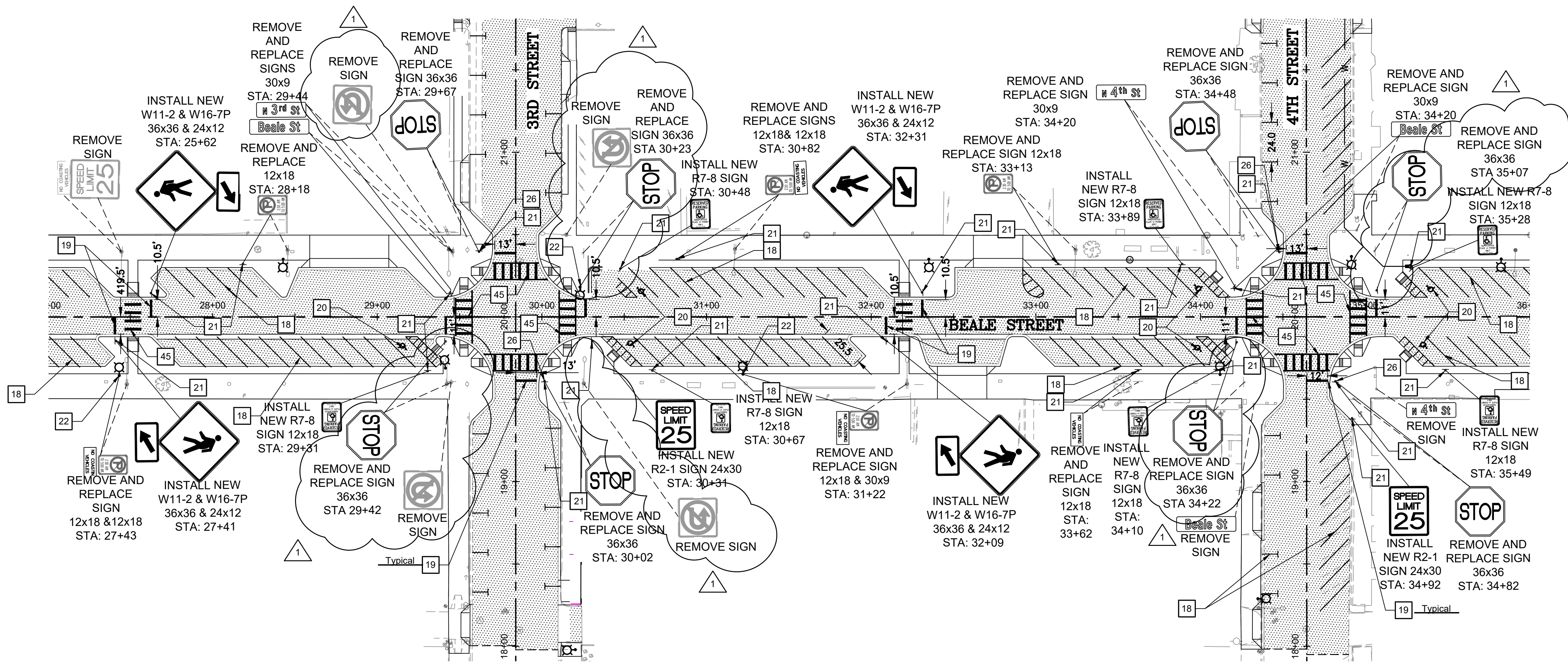
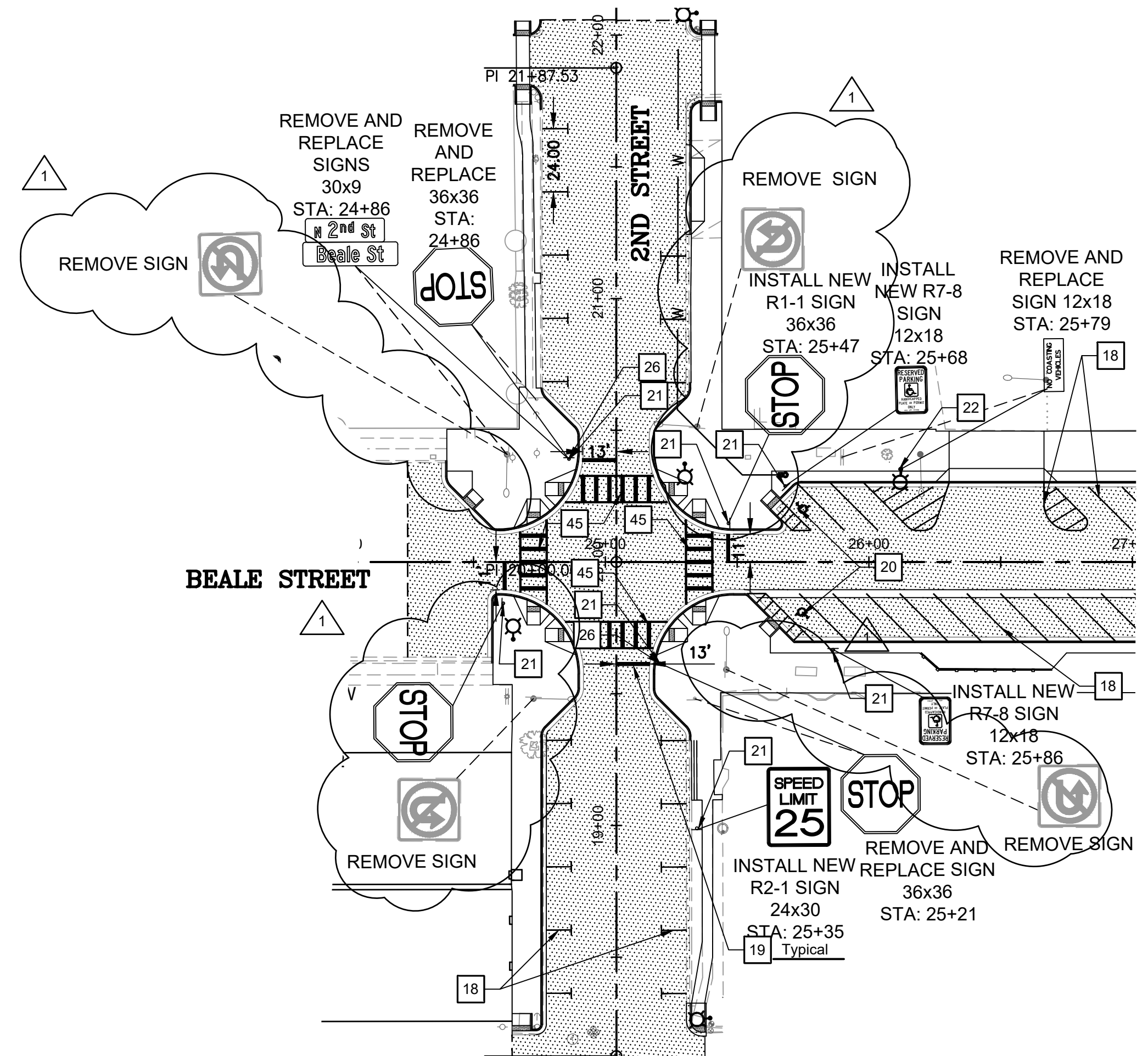
PAVEMENT MARKING SHEET 01  
KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023

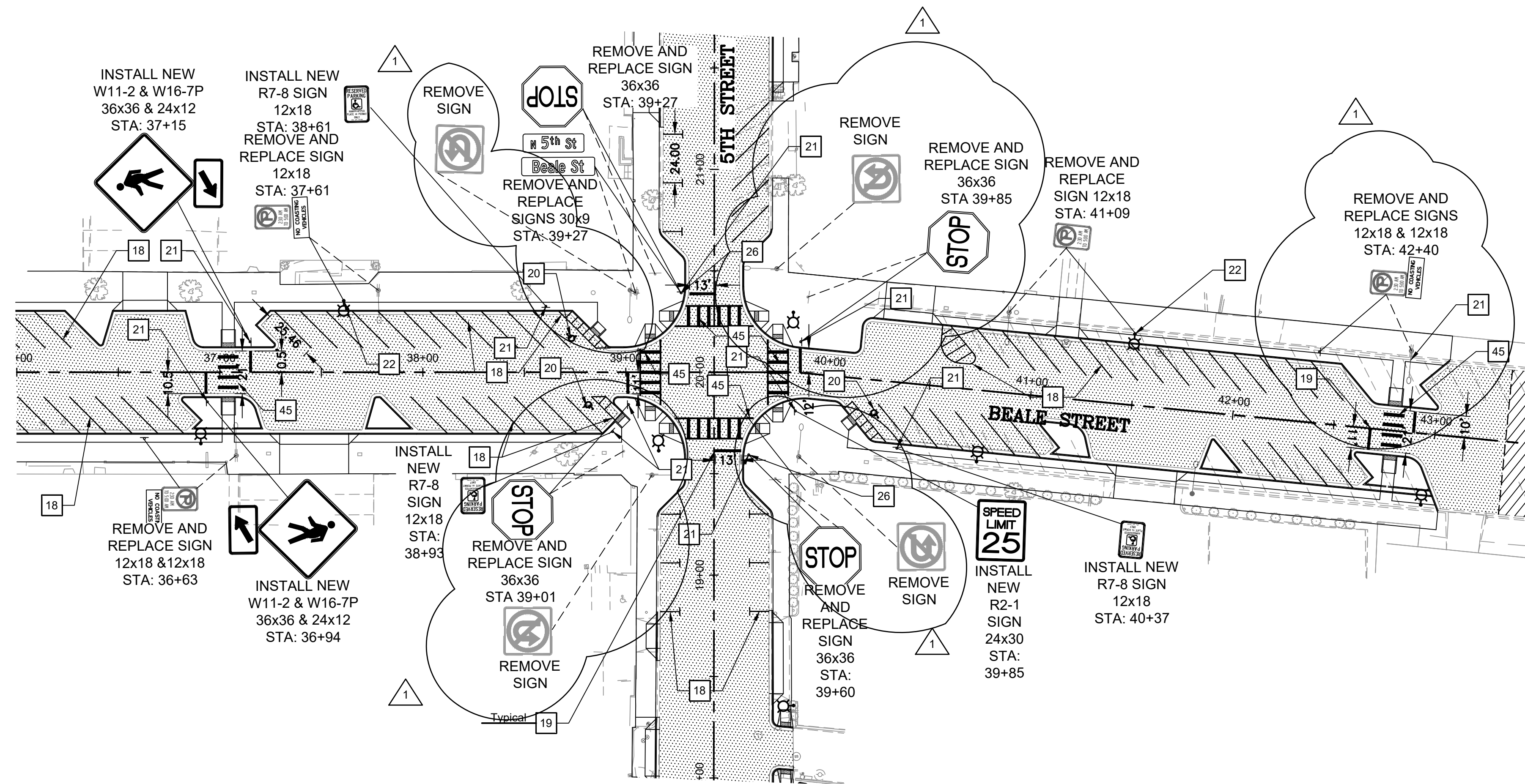


PROJECT NO.  
3720205006

DRAWING NAME  
**PM01**  
SHEET NO. 39 of 63



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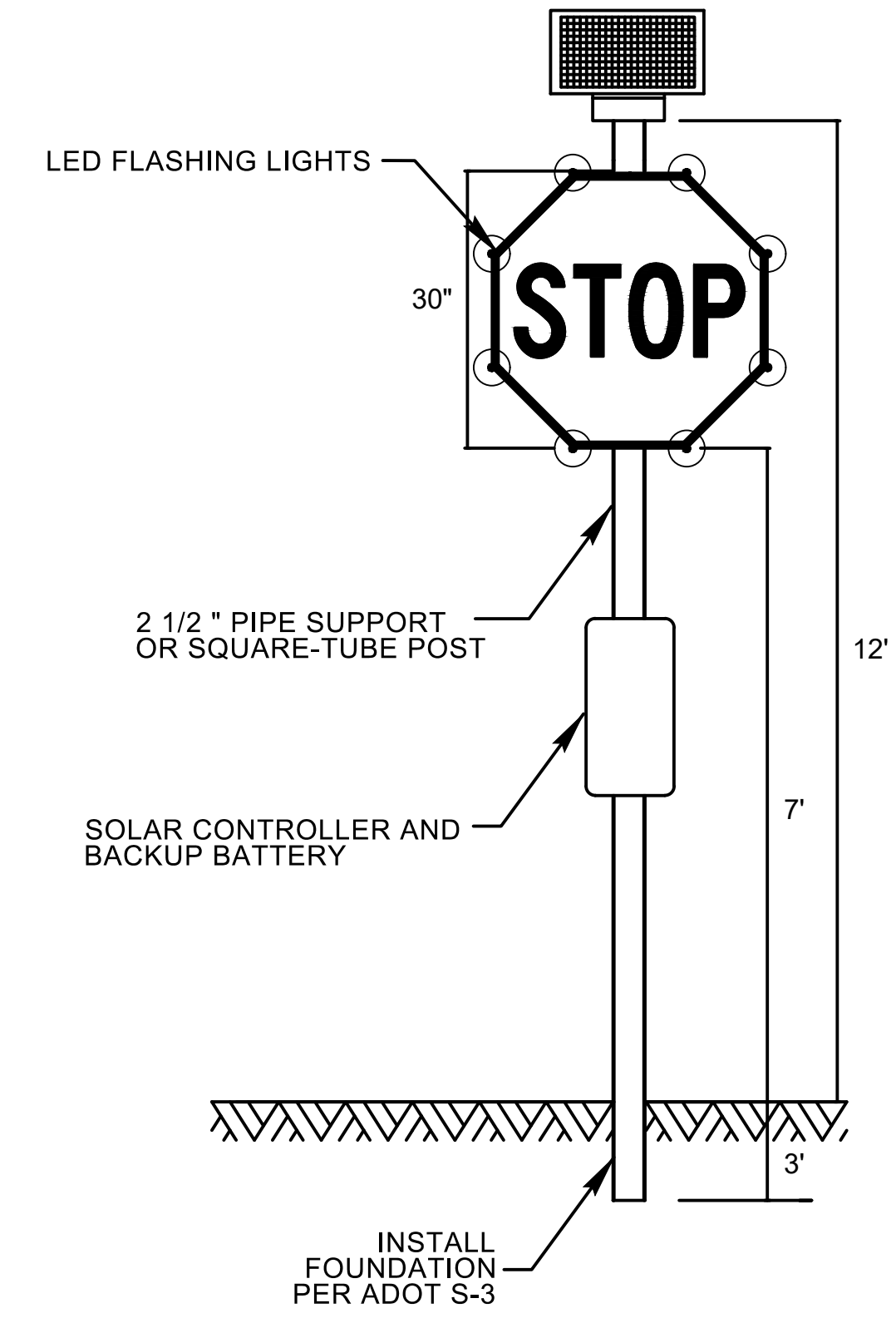
CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY
18	INSTALL NEW 4" WHITE PAVEMENT MARKINGS	2026 LF
19	INSTALL NEW 12" WHITE STOP BAR	69 LF
20	INSTALL NEW ACCESSIBLE PARKING SPACE SYMBOL	3 EA
21	INSTALL NEW SIGN POST AND FOUNDATION PER ADOT STD DTL S-3	11 EA
22	MOUNT SIGN ON THE PROPOSED LIGHT POLE	2 EA
23	REMOVE AND REPLACE EXISTING SIGN	18 EA
24	REMOVE EXISTING SIGN	2 EA
26	INSTALL FLASHING LED EQUIPMENT FOR STOP SIGN PER DETAIL T-1 (SEE PM02)	2 EA
45	INSTALL NEW 12" CROSSWALK LINE	505 LF

- PAVEMENT MARKING NOTES**
- USE WATERBORNE PAINT FOR ALL PARKING LOT MARKINGS, INCLUDING STALLS, LEGENDS AND OTHER MARKINGS.
  - USE THERMOPLASTIC FOR STOP BARS AND CROSSWALKS.
  - IN THE INTERIM CONDITION, PRIOR TO FINAL PAVEMENT INSTALL PARKING LOT AND STOP BAR PAVEMENT MARKINGS USING WATERBORNE PAINT.
  - PAVEMENT MARKING QUANTITIES ARE DOUBLED IN FINAL ESTIMATE TO ACCOUNT FOR INTERIM AND FINAL CONDITIONS

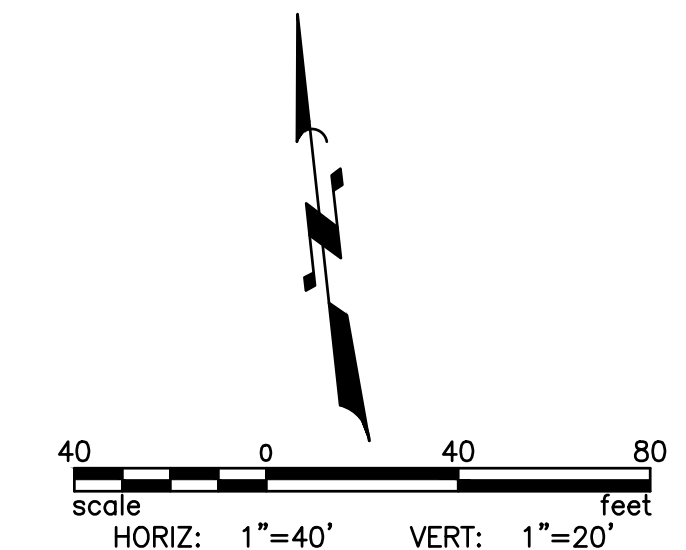
- GENERAL CONSTRUCTION NOTES**
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION JANUARY 2022 EDITION AND THE CITY OF KINGMAN STANDARD DETAILS AND SPECIFICATIONS.
  - THE CONTRACTOR SHALL PROTECT ALL EXISTING UNDERGROUND STRUCTURES AND UTILITIES. CO-OPERATE WITH THE UTILITY COMPANIES IN PROTECTING ALL SERVICES.
  - EXACT LOCATIONS OF EXISTING UTILITIES SHOWN ARE UNKNOWN. LOCATIONS AS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND BURIED CABLES PRIOR TO CONSTRUCTION BY CALLING BLUESTAKE 1-800-STAKE-IT, AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
  - VARIANCE FROM THIS DRAWING AND/OR SPECIFICATIONS WILL REQUIRE PRIOR APPROVAL OF THE CITY ENGINEER.

**LEGEND**

	ASPHALT PAVEMENT
--	------------------



**DETAIL T-1  
NOT TO SCALE**



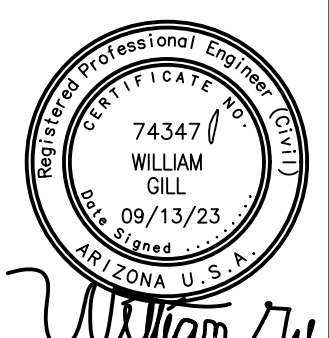
REVISIONS:

NO.	DESCRIPTION
	ADDED/REMOVED SIGNS

WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100

**PAVEMENT MARKING SHEET 02**  
KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023



PROJECT NO.  
3720205006  
DRAWING NAME  
**PM02**  
SHEET NO. 40 of 63



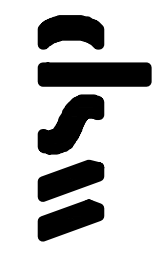
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**CONSTRUCTION NOTES**

NO.	DESCRIPTION	QTY
15	INSTALL NEW ARLEN 20 ALUMINUM POLE W/RECEPTACLE, FOUNDATION, ARM AND LUMINAIRE (CEM CLASSICAL EPIC MEDIUM LED) SEE SHEET SLO9	3 EA
16	INSTALL NEW #5 PULL BOX	5 EA
17	JUNCTION BOX TO JUNCTION BOX FEEDS ON BEALE STREET FROM 1ST UP TO 4TH; OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 2.5" CONDUIT WITH 2-#4 THWN AND 1 #8 BARE FOR STREETLIGHTS B) SINGLE 2.0" CONDUIT WITH 2-#2 THWN AND 1 #8 BARE FOR FUTURE GFCI'S C) NO SPARE CONDUIT	645 LF
25	INSTALL NEW MEYERS LOAD CENTER CABINET AND FOUNDATION (200 AMPS)	1 EA
31	JUNCTION BOX TO STREETLIGHT FEEDS ON BEALE STREET: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 1" CONDUIT WITH 2-#10 THWN AND 1 #8 BARE FOR STREETLIGHTS B) SINGLE 1" CONDUIT WITH 2-#10 THWN AND 1 #8 BARE FOR FUTURE GFCI'S C) NO SPARE CONDUIT D) NO GFCI, MOUNTING HARDWARE WILL STILL NEED TO BE INSTALLED IN DECORATIVE BASE FOR FUTURE GFCI INSTALLATION E) NO AMP KITS	95 LF

REVISIONS:

WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100



SL#  
CIR#

**GENERAL CONSTRUCTION NOTES**

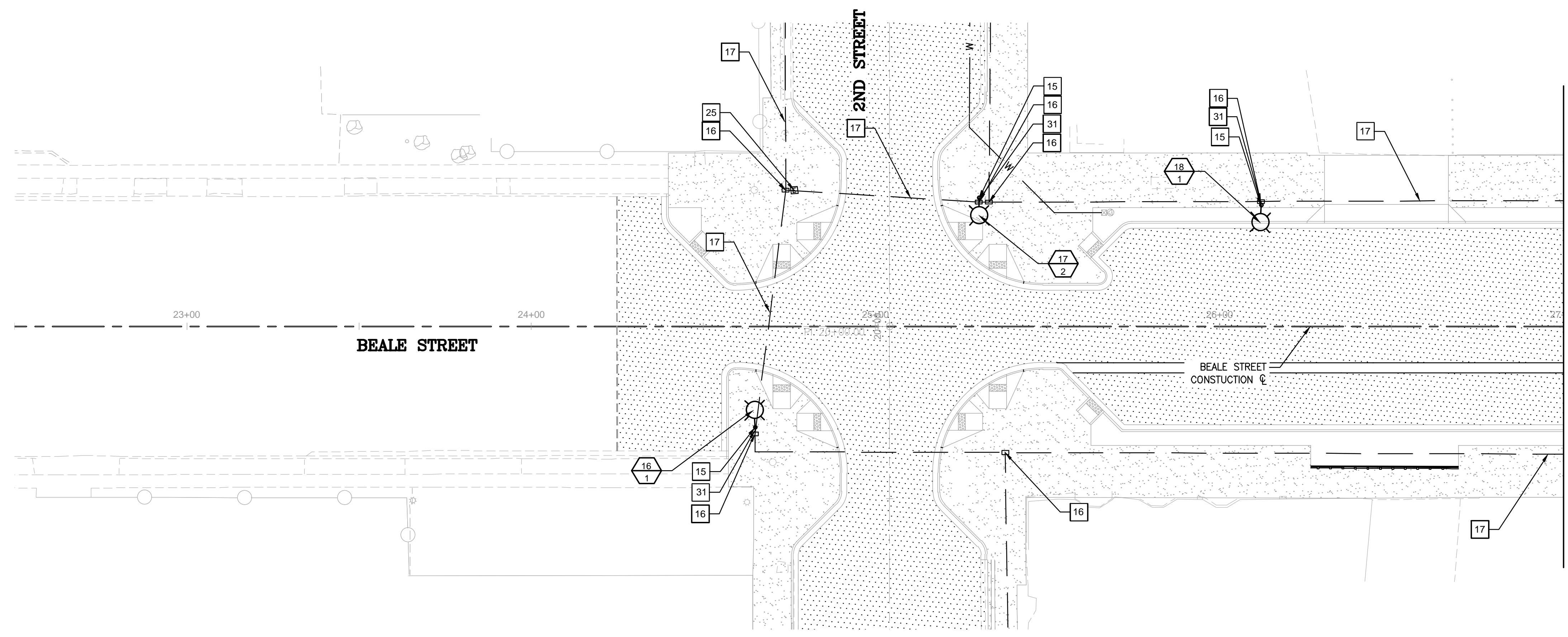
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- THE CONTRACTOR SHALL PROTECT ALL EXISTING UNDERGROUND STRUCTURES AND UTILITIES. CO-OPERATE WITH THE UTILITY COMPANIES IN PROTECTING ALL SERVICES.
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- VARIANCE FROM THIS DRAWING AND/OR SPECIFICATIONS WILL REQUIRE PRIOR APPROVAL OF THE CITY ENGINEER.

**LEGEND**

ASPHALT PAVEMENT

**NOTES**

- STREETLIGHT FOUNDATIONS FROM GRANDVIEW TO 1ST WILL BE VACUUM EXCAVATED TO ACCOUNT FOR IMMEDIATELY ADJACENT UTILITIES
- CENTER OF STREETLIGHT FOUNDATIONS SHALL BE INSTALLED 1'-3" OFF BACK OF SIDEWALK AND FIELD ADJUSTED BASED ON LOCATION OF EXISTING UTILITIES
- CONDUIT AND JUNCTION BOXES SHALL BE FIELD ADJUSTED BASED ON LOCATION OF UTILITIES
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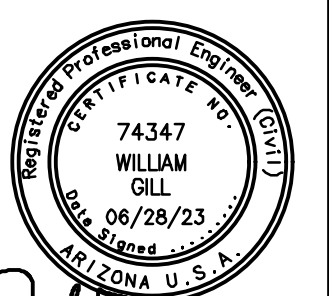


MATCHLINE STA 27+00  
SEE SHEET SLO3

**STREET LIGHT PLAN**

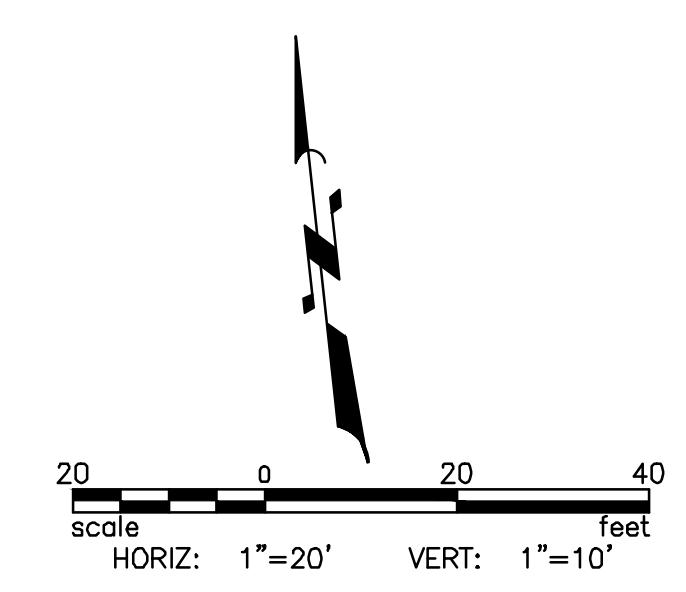
KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023



PROJECT NO.  
3720205006

DRAWING NAME  
**SL02**  
SHEET NO. 41 of 63



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**CONSTRUCTION NOTES**

NO.	DESCRIPTION	QTY
15	INSTALL NEW ARLEN 20 ALUMINUM POLE W/RECEPTACLE, FOUNDATION, ARM AND LUMINAIRE (CEM CLASSICAL EPIC MEDIUM LED) SEE SHEET SLO9	9 EA
16	INSTALL NEW #5 PULL BOX	12 EA
17	JUNCTION BOX TO JUNCTION BOX FEEDS ON BEALE STREET FROM 1ST UP TO 4TH: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 2.5" CONDUIT WITH 2-#4 THWN AND 1 #8 BARE FOR STREETLIGHTS B) SINGLE 2.0" CONDUIT WITH 2-#2 THWN AND 1 #8 BARE FOR FUTURE GFCI'S C) NO SPARE CONDUIT	956 LF
25	INSTALL NEW MEYERS LOAD CENTER CABINET AND FOUNDATION (200 AMPS)	1 EA
31	JUNCTION BOX TO STREETLIGHT FEEDS ON BEALE STREET: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 1" CONDUIT WITH 2-#10 THWN AND 1 #8 BARE FOR STREETLIGHTS B) SINGLE 1" CONDUIT WITH 2-#10 THWN AND 1 #8 BARE FOR FUTURE GFCI'S C) NO SPARE CONDUIT D) NO GFCI. MOUNTING HARDWARE WILL STILL NEED TO BE INSTALLED IN DECORATIVE BASE FOR FUTURE GFCI INSTALLATION E) NO AMP KITS	227 LF
35	EXISTING SIGNAL JUNCTION BOX TO REMAIN	4 EA
37	JUNCTION BOX TO JUNCTION BOX FEEDS ON BEALE STREET FROM 4TH TO 6TH: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 2.5" CONDUIT WITH 2-#6 THWN AND 1 #8 BARE FOR STREETLIGHTS B) SINGLE 2.0" CONDUIT WITH 2-#2 THWN AND 1 #8 BARE FOR FUTURE GFCI'S C) NO SPARE CONDUIT	468 LF

SL CIR	STREET LIGHT #	CIRCUIT #
15	1	1
16	2	2
17	3	3
18	4	4
19	5	5
20	6	6
21	7	7
22	8	8
23	9	9
24	10	10
25	11	11
26	12	12
27	13	13
28	14	14
29	15	15
30	16	16
31	17	17
32	18	18
33	19	19
34	20	20
35	21	21
36	22	22
37	23	23

**GENERAL CONSTRUCTION NOTES**

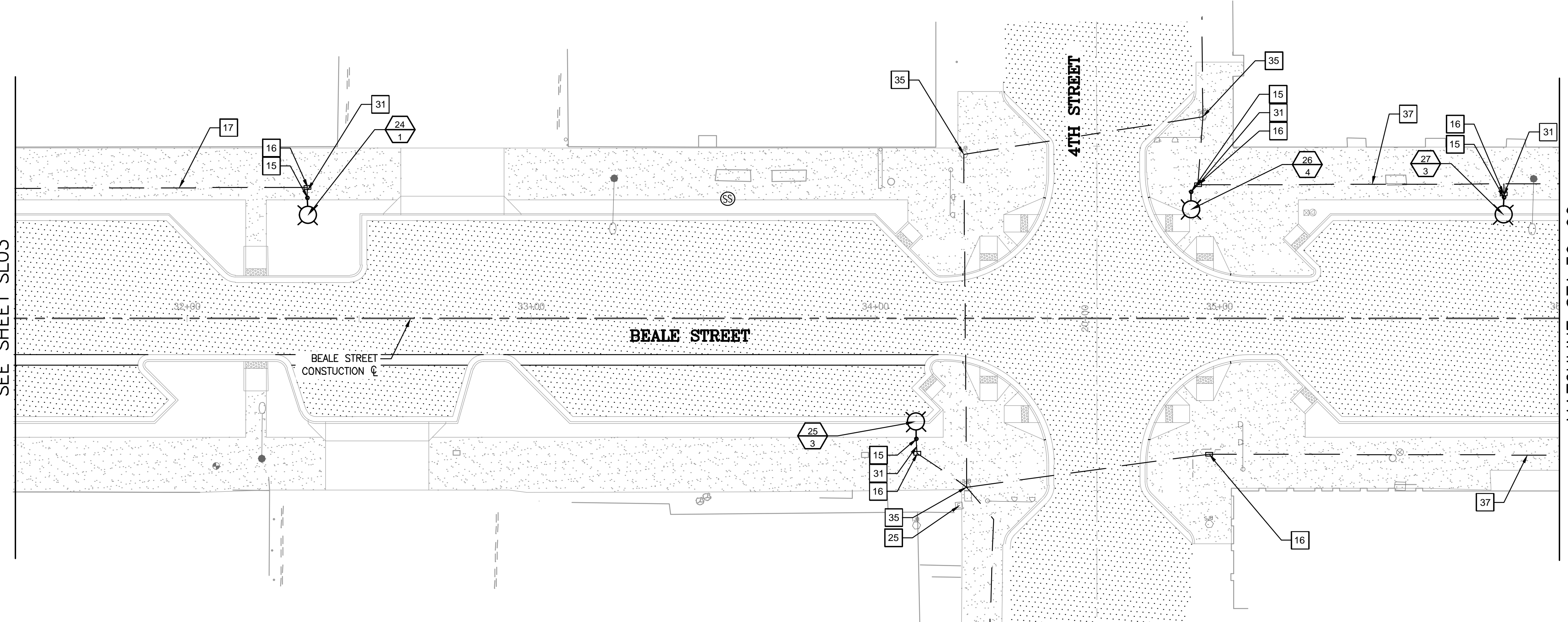
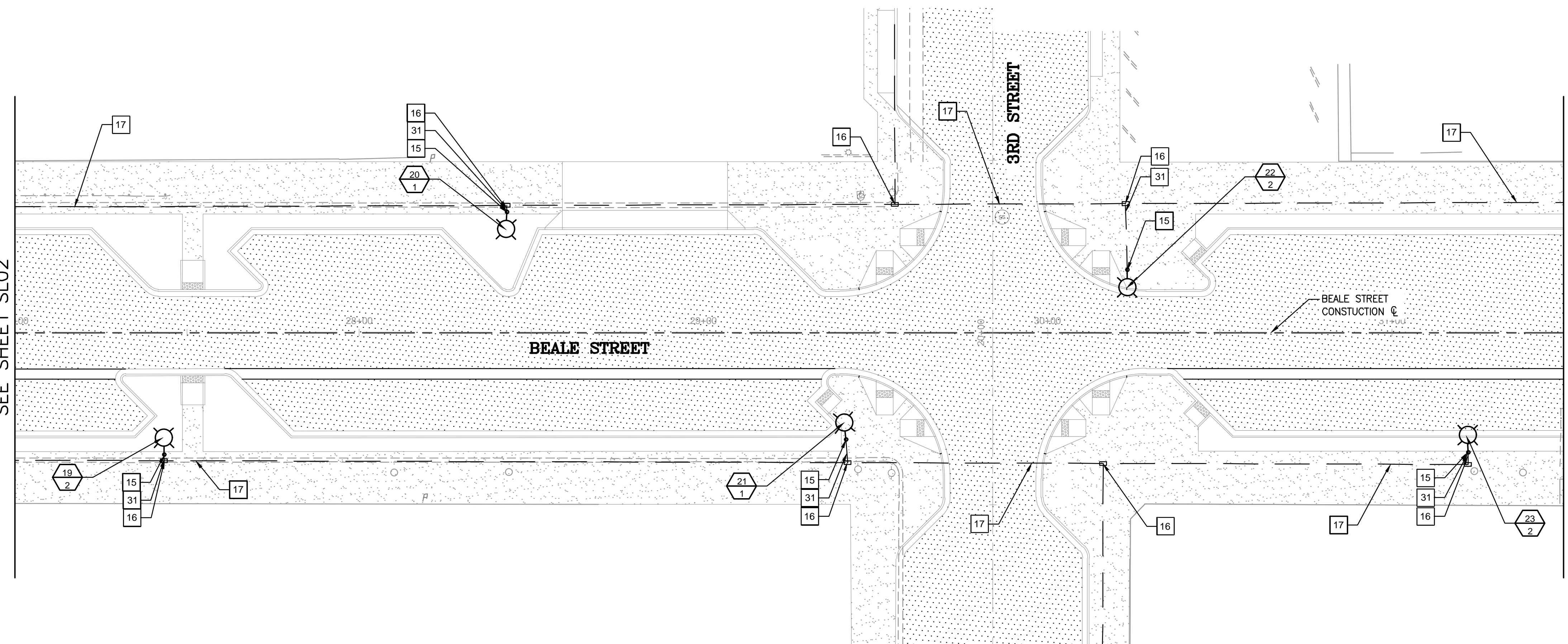
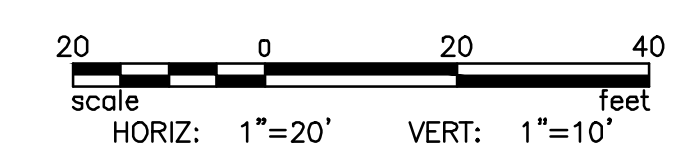
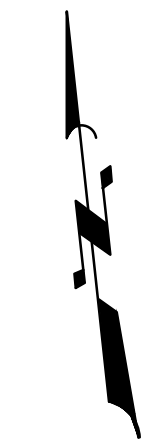
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**LEGEND**

	ASPHALT PAVEMENT
--	------------------

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4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100

**STREET LIGHT PLAN**

**KINGMAN DOWNTOWN INFRASTRUCTURE**  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023

PROJECT NO.  
3720205006

DRAWING NAME  
**SL03**

SHEET NO. 42 of 63

*William Gill*

File: C:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-SLO3.dwg

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37	JUNCTION BOX TO JUNCTION BOX FEEDS ON BEALE STREET FROM 4TH TO 6TH: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 2.5" CONDUIT WITH 2-#6 THWN AND 1 #8 BARE FOR STREETLIGHTS B) SINGLE 2.0" CONDUIT WITH 2-#2 THWN AND 1 #8 BARE FOR FUTURE GFCS C) NO SPARE CONDUIT	900 LF

SL STREET LIGHT #  
CIR CIRCUIT #

**GENERAL CONSTRUCTION NOTES**

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**LEGEND**

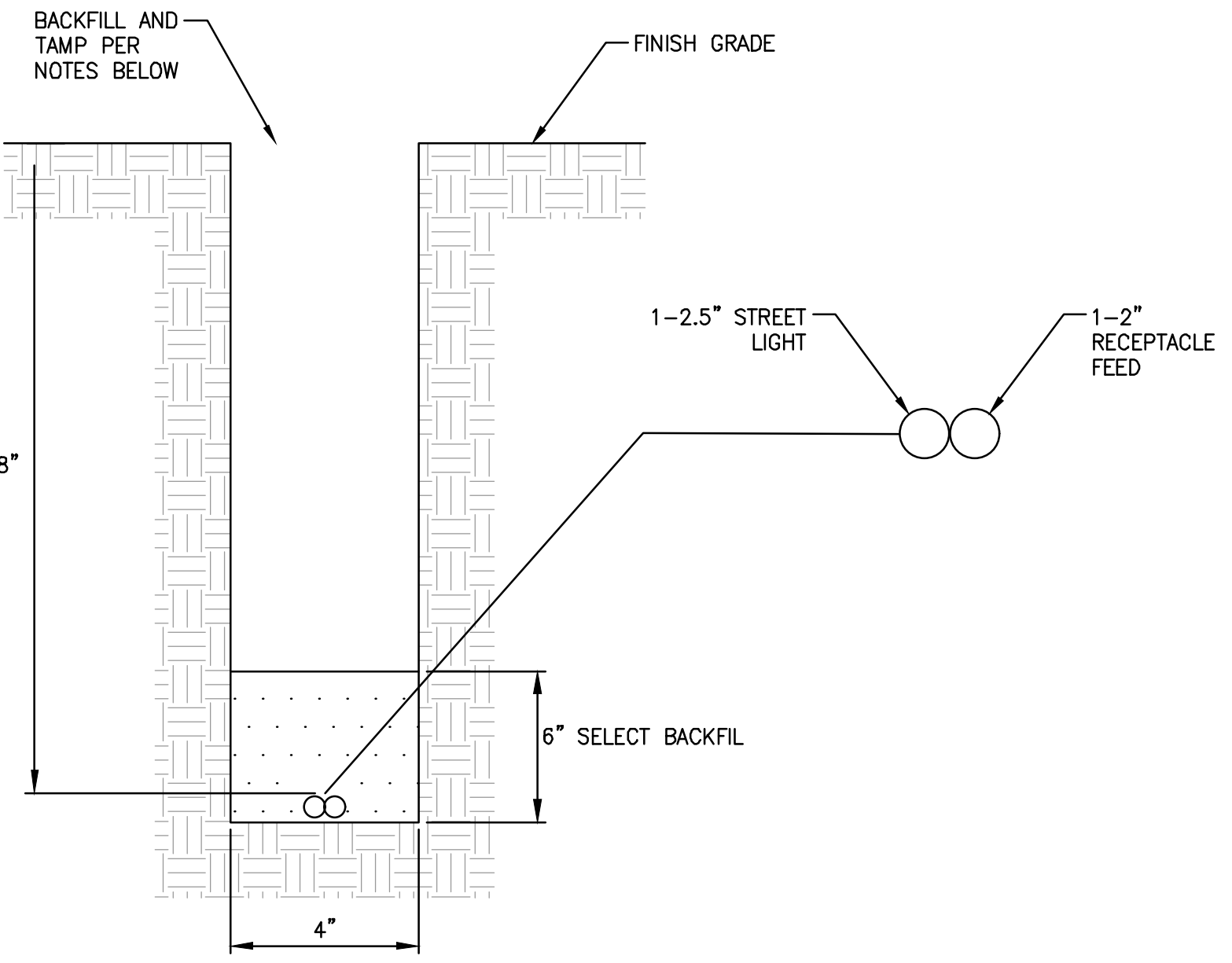
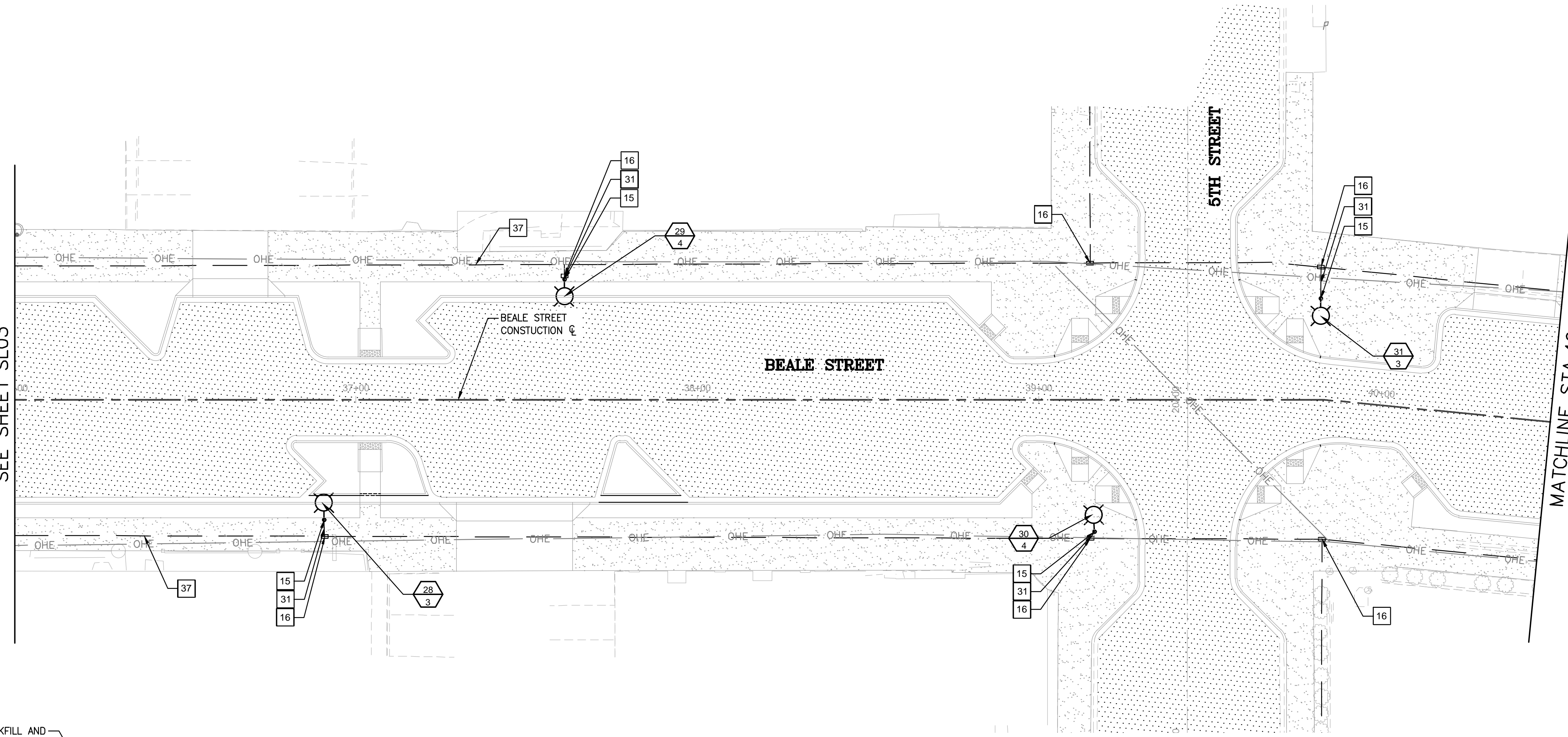
ASPHALT PAVEMENT

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MATCHLINE STA 36+00  
SEE SHEET SLO3

MATCHLINE STA 40+50  
SEE SHEET SLO5



**DETAIL S-1  
NOT TO SCALE**

TRENCHING  
TRENCHES SHALL HAVE A MINIMUM WIDTH OF 4" AND A MINIMUM COVER OVER CONDUIT OF 18". THE CONDUIT SHALL HAVE A MINIMUM COVER OF 18" FROM FINAL GRADE. BOTTOM OF TRENCH MUST BE SMOOTH, FLAT, WITHOUT SURFACE IRREGULARITIES AND FREE OF DEBRIS AND ORGANIC MATERIALS.

BACKFILL  
BEDDING AND SHADE MUST BE ABLE TO PASS 100% THROUGH A 3/8" SIEVE, 80% THROUGH A #4 SIEVE, AND 60% THROUGH A #10 SIEVE. 6" OF LEVEL BEDDING SHALL BE PLACED IN THE TRENCH TOPPED BY 8" OF SHADE.

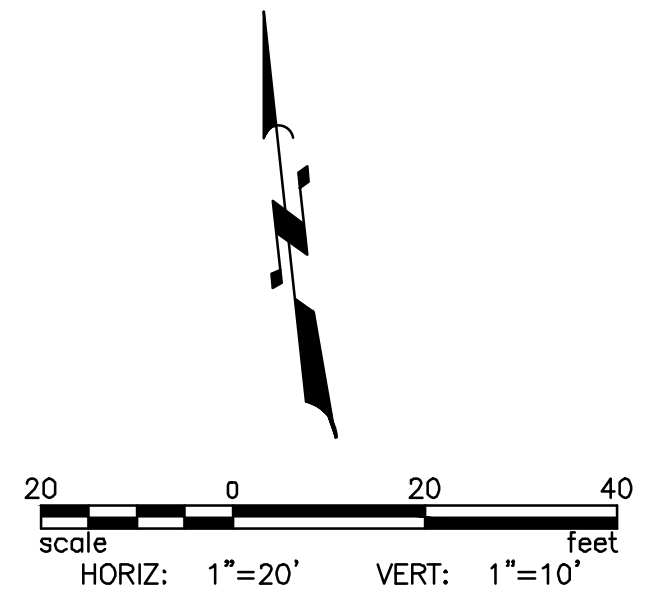
COMPACTION  
AT LEAST 6" OF SELECT MATERIAL MUST BE PLACED OVER THE FACILITY BEFORE TAMPING. ACCEPTABLE COMPACTION METHODS ARE HAND-TAMPING WITH PNEUMATIC OR VIBRATING EQUIPMENT, AND WATER JETTING OR FLOODING IN ACCORD WITH MAG SPECS. SECTION 601.4.5 COMPACT BACKFILL TO A DENSITY OF 90% OF STANDARD PROCTOR MAG SPEC SECTION 601.4.4, TYPE 1

Sheet	Roadway Section	Power Source 1st @ Beale Street		Power Source 4th @ Beale Street	
		Circuit 1	Circuit 2	Circuit 3	Circuit 4
SL01	Grandview - 1st	5	5		
SL02 top	1st intersection	1	2		
SL06 top	1st st	1	1		
SL02 bottom	2nd St intersection	3	2		
SL06 bottom	2nd st	1	1		
SL03 top	3rd St intersection	2	3		
SL07 top	3rd St	1	1		
SL03 bottom	4th St intersection	1		2	1
SL07 Bottom	4th st			1	1
SL04 Top+bottom	5th St Intersection			5	4
SL08 Top	5th			1	1
SL05	6th St Intersection			1	1
SL08 bottom	6th			1	1
<b>Total</b>		<b>15</b>	<b>15</b>	<b>11</b>	<b>9</b>
<b>Total amps/pole</b>		<b>0.83</b>			
<b>Amps/circuit</b>		<b>12.5</b>	<b>12.5</b>	<b>9.17</b>	<b>7.5</b>
<b>Max Amps/ Circuit</b>		<b>20 amps</b>			
<b>Allowable Amps/Circuit 80%</b>		<b>16 amps</b>			
<b>Max Distance (ft)</b>		<b>1550</b>	<b>1550</b>	<b>1400</b>	<b>1400</b>
<b>Voltage Drop Ohms</b>		<b>9.63</b>	<b>9.63</b>	<b>10.14</b>	<b>8.3</b>
<b>Max Allowable drop Ohms</b>		<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>

Sheet	Roadway Section	Power Source 1st @ Beale Street		Power Source 4th @ Beale Street	
		Circuit 1	Circuit 2	Circuit 3	Circuit 4
SL01	Grandview - 1st	5	5		
SL02 top	1st intersection	1	2		
SL06 top	1st st				
SL02 bottom	2nd St intersection	3	2		
SL06 bottom	2nd st				
SL03 top	3rd St intersection	2	3		
SL07 top	3rd St				
SL03 bottom	4th St intersection	1		2	1
SL07 Bottom	4th st				
SL04 Top+bottom	5th St Intersection			5	4
SL08 Top	5th			1	1
SL05	6th St Intersection			1	1
SL08 bottom	6th				
<b>Total</b>		<b>12</b>	<b>12</b>	<b>8</b>	<b>6</b>
<b>Breaker/Circuit</b>		<b>50 amp breaker</b>	<b>50 amp breaker</b>	<b>50 amp breaker</b>	<b>50 amp breaker</b>
<b>Total amps/pole</b>					
<b>Amps/circuit</b>		<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>
<b>Max Distance (ft)</b>		<b>1550</b>	<b>1550</b>	<b>1400</b>	<b>1400</b>
<b>Voltage Drop Ohms</b>		<b>9.69</b>	<b>9.69</b>	<b>8.75</b>	<b>8.75</b>
<b>Max Allowable drop Ohms</b>		<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>

STREET TYPE AND ROAD WIDHT	LAND USE	Conduit		UNIFORMITY RATIO (AVG-TO-MIN)	SPACING PATTERN	MOUNTING HEIGHT
		AVERAGE FOOT-CANDLES				
<b>ILLUMINATION STANDARDS</b>						
COLLECTOR ROAD 45'-65'	COMMERCIAL	0.7-0.9		4:1 - 6:1	STAGGERED	20'-30'
SIDEWALK 5'	NA	0.3-0.7		4:1	NA	NA
<b>ILLUMINATION PROVIDED</b>						
COLLECTOR ROAD 60'	COMMERCIAL	0.9		3:1		
SIDEWALK 12'	COMMERCIAL	0.5		5:1	STAGGERED	29'

Construction Note	Conduit and Conductor Schedule	
	Conduit	Conductors
17	2.5"	Street Light, Speaker, Festive Lights
	2"	Receptacles
31	1"	Street Light, Speaker, Festive Lights
	1"	Receptacles
37	2.5"	Street Lights
	2"	Receptacles

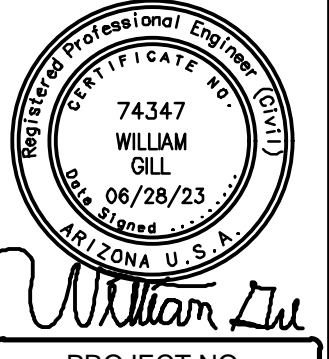


WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
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**STREET LIGHT PLAN**  
KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023

PROJECT NO.  
372025006



DRAWING NAME  
**SL04**  
SHEET NO. 43 OF 63

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15	INSTALL NEW ARLEN 20 ALUMINUM POLE W/RECEPTACLE, FOUNDATION, ARM AND LUMINAIRE (CEM CLASSICAL EPIC MEDIUM LED) SEE SHEET SLO9	3 EA
16	INSTALL NEW #5 PULL BOX	3 EA
31	OPEN TRENCH (CONDUIT PLACEMENT PER DETAIL S-1, SEE SHEET SLO5) INSTALL NEW 1" CONDUIT WITH 2 #10 THWN, 1 #8 BARE FOR STREETLIGHT, SPEAKER AND FESTIVE LIGHTING. FOR THE RECEPTACLE, INSTALL 2#10 THWN AND 1#8. INSTALL 20 AMP FUSE KIT AND 20 AMP GFCI FOR EACH RECEPTACLE	75 LF
37	OPEN TRENCH (CONDUIT PLACEMENT PER DETAIL S-1, SEE SHEET SLO5) 1-3" CONDUIT INSTALL 2#6 THWN 1#8 BARE (FOR STREET LIGHTS 1-3" CONDUIT. INSTALL RECEPTACLE CONDUCTORS 2#2 THWN, 1#8 BARE AND 1-2" SPARE	345 EA

REVISIONS:

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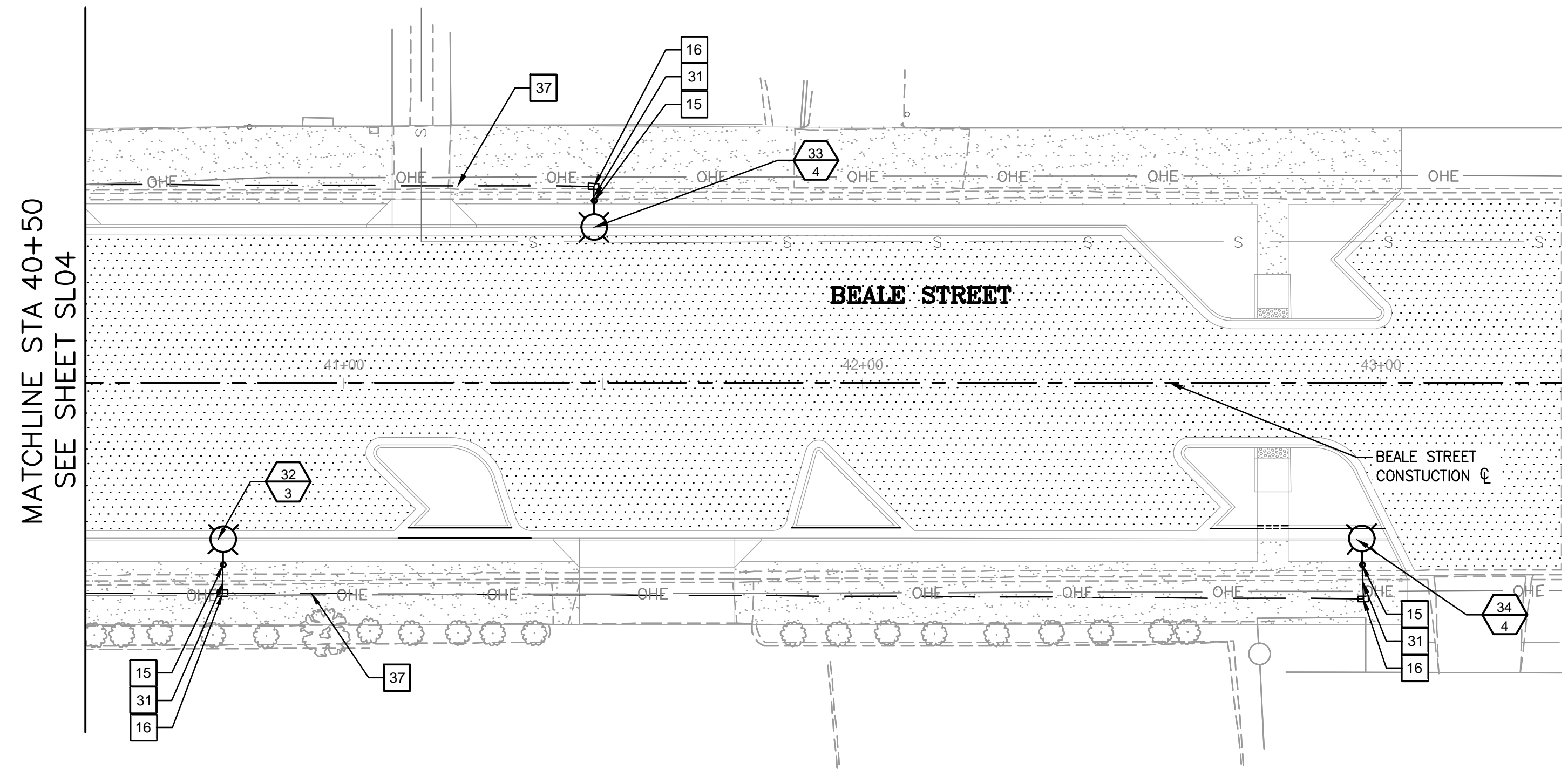
**STREET LIGHT PLAN**  
 KINGMAN DOWNTOWN INFRASTRUCTURE  
 BEALE ST - 1ST ST TO 6TH ST  
 KINGMAN, ARIZONA

DESIGNED BY: HMR  
 DRAWN BY: AA  
 CHECKED BY: DY  
 DATE: JUNE 2023

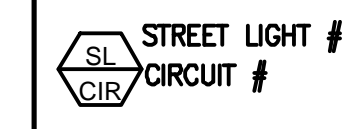
PROJECT NO.  
 3720205006

DRAWING NAME  
**SL05**

SHEET NO. 44 of 63



MATCHLINE STA 40+50  
 SEE SHEET SLO4



**GENERAL CONSTRUCTION NOTES**

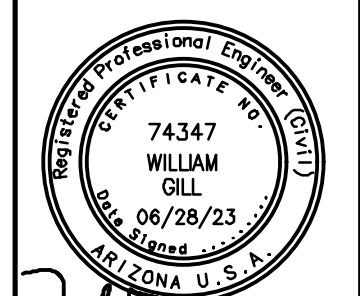
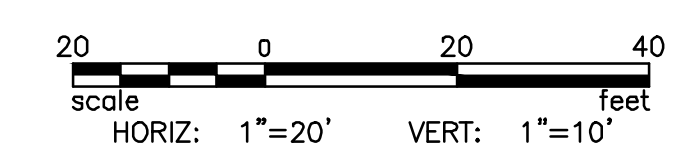
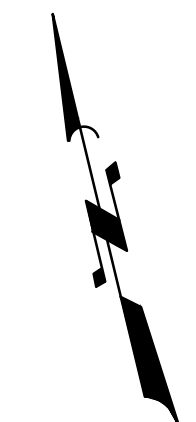
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**LEGEND**



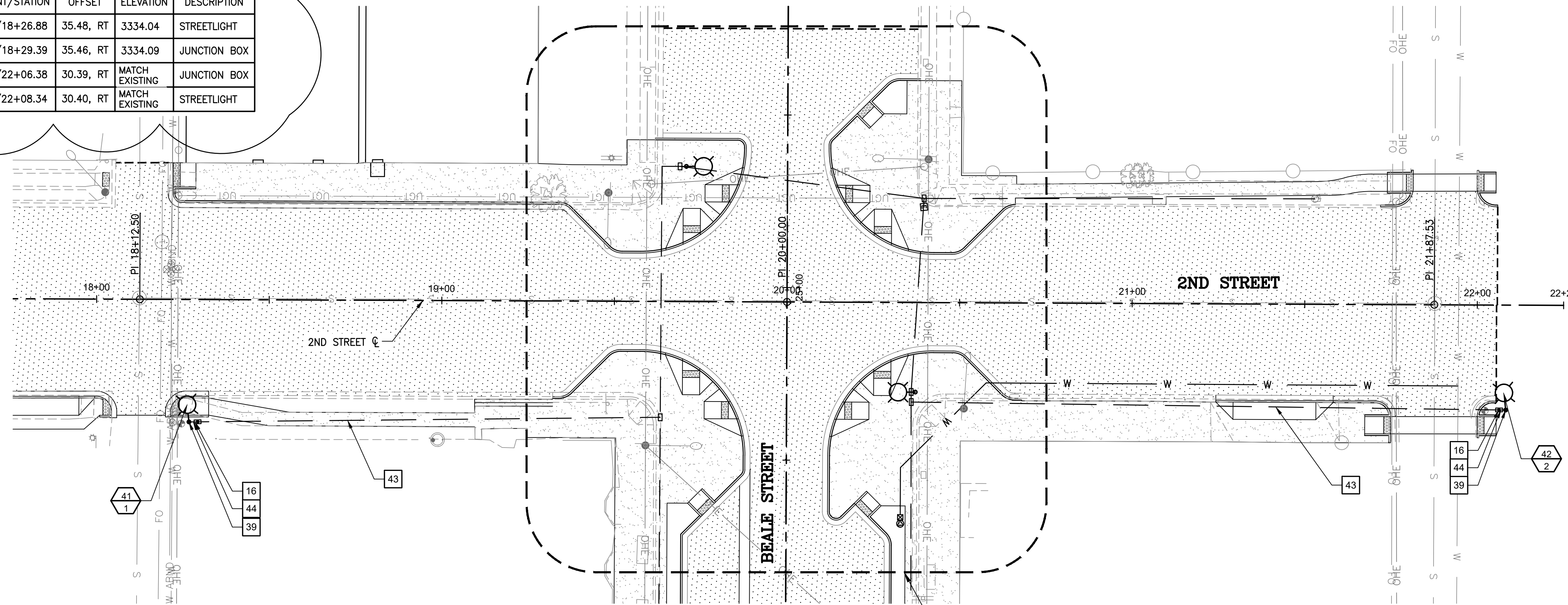
**NOTES**

- STREETLIGHT FOUNDATIONS FROM GRANDVIEW TO 1ST WILL BE VACUUM EXCAVATED TO ACCOUNT FOR IMMEDIATELY ADJACENT UTILITIES
- CENTER OF STREETLIGHT FOUNDATIONS SHALL BE INSTALLED 1'-3' OFF BACK OF SIDEWALK AND FIELD ADJUSTED BASED ON LOCATION OF EXISTING UTILITIES
- CONDUIT AND JUNCTION BOXES SHALL BE FIELD ADJUSTED BASED ON LOCATION OF UTILITIES
- CITY OF KINGMAN SHALL RELOCATE ANY IRRIGATION OR CITY UNDERGROUND POWER PRIOR TO CONSTRUCTION

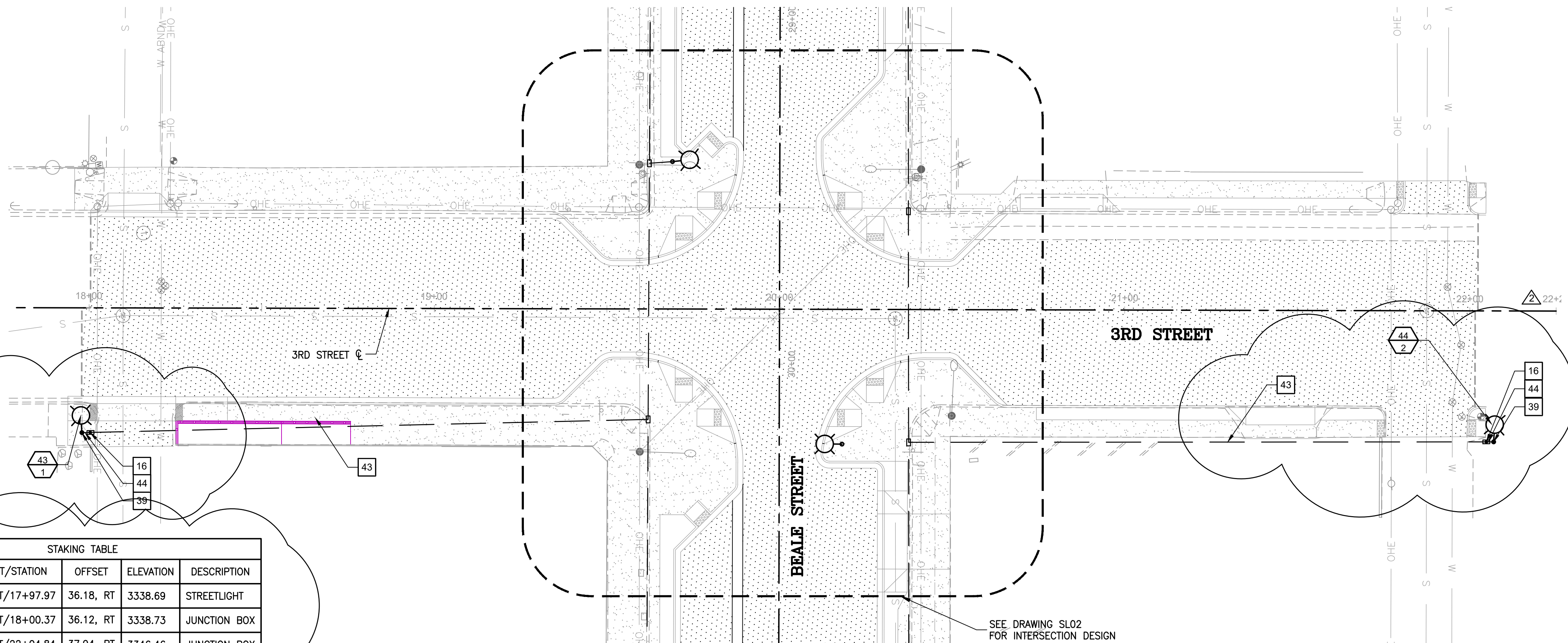


*William Gill*

STAKING TABLE				
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION	DESCRIPTION
1	2ND ST/18+26.88	35.48, RT	3334.04	STREETLIGHT
2	2ND ST/18+29.39	35.46, RT	3334.09	JUNCTION BOX
3	2ND ST/22+06.38	30.39, RT	MATCH EXISTING	JUNCTION BOX
4	2ND ST/22+08.34	30.40, RT	MATCH EXISTING	STREETLIGHT



SEE DRAWING SL01 FOR INTERSECTION DESIGN



SEE DRAWING SL02 FOR INTERSECTION DESIGN

STAKING TABLE				
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION	DESCRIPTION
1	3RD STREET/17+97.97	36.18, RT	3338.69	STREETLIGHT
2	3RD STREET/18+00.37	36.12, RT	3338.73	JUNCTION BOX
3	3RD STREET/22+04.84	37.94, RT	3346.46	JUNCTION BOX
4	3RD STREET/22+06.97	37.94, RT	3346.46	STREETLIGHT

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### CONSTRUCTION NOTES

NO.	DESCRIPTION	QTY
16	INSTALL NEW #5 PULL BOX	4 EA
39	INSTALL NEW ARLEN 20 ALUMINUM POLE, FOUNDATION, ARM AND LUMINAIRE (CEM CLASSICAL EPIC MEDIUM LED) SEE SHEET SLO9	4 EA
43	JUNCTION BOX TO JUNCTION BOX FEEDS ON NORTH/SOUTH CROSS STREETS: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 2.5" CONDUIT WITH 2-#6 THWN AND 1 #8 BARE FOR STREETLIGHTS B) NO SPARE CONDUIT	676 LF
44	JUNCTION BOX TO STREETLIGHT FEEDS ON NORTH/SOUTH CROSS STREETS: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 1.0" CONDUIT WITH 2-#10 THWN AND 1 #8 BARE FOR STREETLIGHTS B) NO SPARE CONDUIT	100 LF

SL STREET LIGHT #  
CIR CIRCUIT #

### GENERAL CONSTRUCTION NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION JANUARY 2022 EDITION AND THE CITY OF KINGMAN STANDARD DETAILS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING UNDERGROUND STRUCTURES AND UTILITIES. CO-OPERATE WITH THE UTILITY COMPANIES IN PROTECTING ALL SERVICES.
- EXACT LOCATIONS OF EXISTING UTILITIES SHOWN ARE UNKNOWN. LOCATIONS AS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND BURIED CABLES PRIOR TO CONSTRUCTION BY CALLING BLUESTAKE 1-800-STAKE-IT, AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- VARIANCE FROM THIS DRAWING AND/OR SPECIFICATIONS WILL REQUIRE PRIOR APPROVAL OF THE CITY ENGINEER.

### LEGEND

ASPHALT PAVEMENT

### NOTES

- STREETLIGHT FOUNDATIONS FROM GRANDVIEW TO 1ST WILL BE VACUUM EXCAVATED TO ACCOUNT FOR IMMEDIATELY ADJACENT UTILITIES
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REVISIONS:	
STATION, OFFSETS AND ELEVATIONS FOR	
STREETLIGHT AND JUNCTION BOX	
CHANGE LIGHT LOCATION	
CHANGE LIGHT LOCATION	

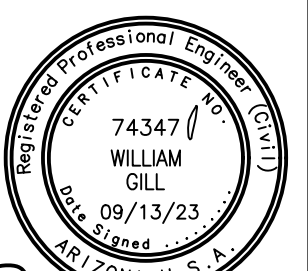
WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100



### STREET LIGHT PLAN

KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

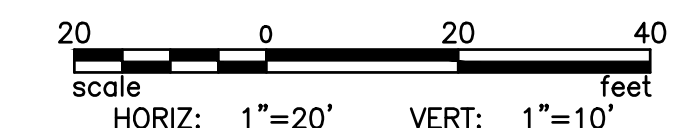
DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023



PROJECT NO.  
3720205006

DRAWING NAME  
**SL07**

SHEET NO. 45 of 63



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**CONSTRUCTION NOTES**

NO.	DESCRIPTION	QTY
16	INSTALL NEW #5 PULL BOX	4 EA
39	INSTALL NEW ARLEN 20 ALUMINUM POLE, FOUNDATION, ARM AND LUMINAIRE (CEM CLASSICAL EPIC MEDIUM LED) SEE SHEET SL09	4 EA
43	JUNCTION BOX TO JUNCTION BOX FEEDS ON NORTH/SOUTH CROSS STREETS: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 2.5" CONDUIT WITH 2-#6 THWN AND 1 #8 BARE FOR STREETLIGHTS B) NO SPARE CONDUIT	955 LF
44	JUNCTION BOX TO STREETLIGHT FEEDS ON NORTH/SOUTH CROSS STREETS: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 1.0" CONDUIT WITH 2-#10 THWN AND 1 #8 BARE FOR STREETLIGHTS B) NO SPARE CONDUIT	100 LF

SL STREET LIGHT #  
CIR CIRCUIT #

**GENERAL CONSTRUCTION NOTES**

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION JANUARY 2022 EDITION AND THE CITY OF KINGMAN STANDARD DETAILS AND SPECIFICATIONS.
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- VARIANCE FROM THIS DRAWING AND/OR SPECIFICATIONS WILL REQUIRE PRIOR APPROVAL OF THE CITY ENGINEER.

**LEGEND**

 ASPHALT PAVEMENT

REVISIONS:

NO.	DESCRIPTION

STATION, OFFSETS AND ELEVATIONS FOR STREETLIGHT AND JUNCTION BOX  
CHANGED LIGHT LOCATION

PROJECT: **STREET LIGHT PLAN**  
**KINGMAN DOWNTOWN INFRASTRUCTURE**  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

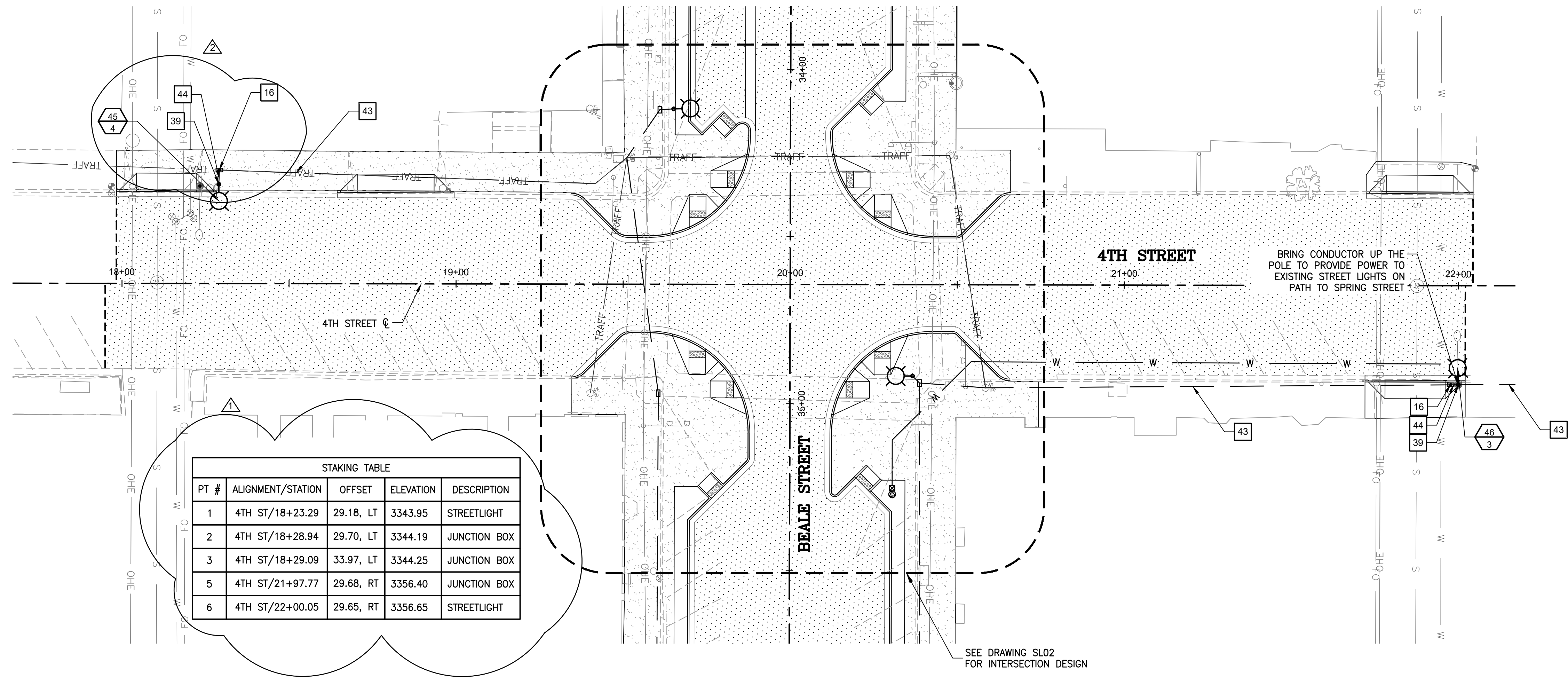
DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023



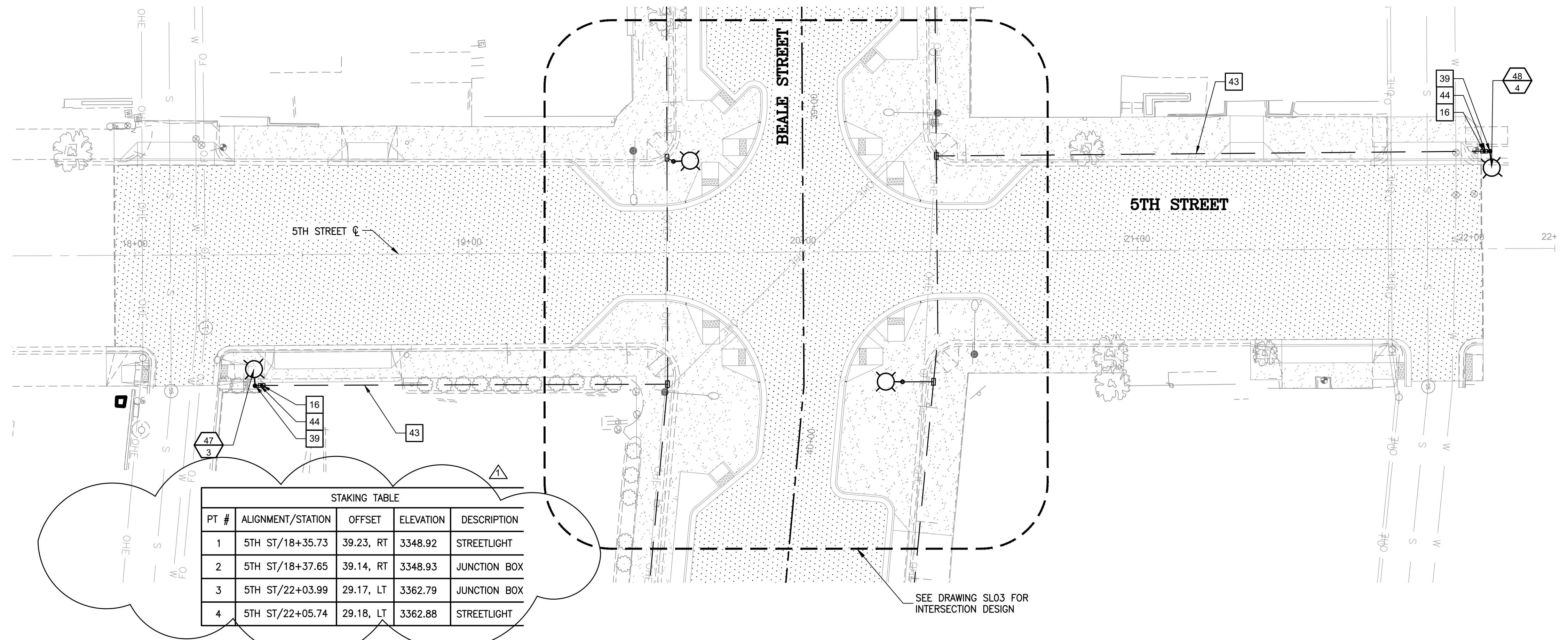
PROJECT NO.  
3720205006

DRAWING NAME  
**SL08**

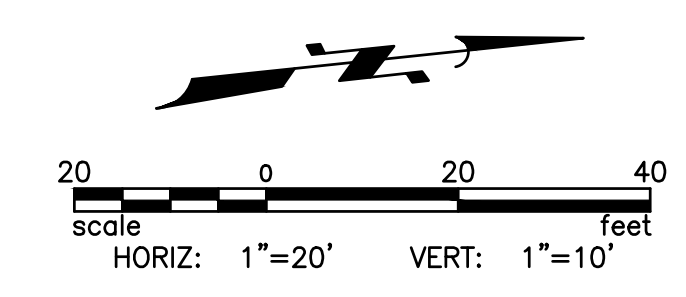
SHEET NO. 46 OF 63



SEE DRAWING SL02 FOR INTERSECTION DESIGN



SEE DRAWING SL03 FOR INTERSECTION DESIGN



**DESCRIPTION**  
The EPIC Collection delivers custom luminaires flexibility with high quality, yet availability expectations of standard specification grade products. The EPIC Collection can be directed to any specific application. Recognizing evolving environmental and legislative trends, the EPIC Collection delivers world class LED optical and performance solutions to the decorative luminaire marketplace.

**DESIGNATION**  
The EPIC Collection delivers custom luminaires flexibility with high quality, yet availability expectations of standard specification grade products. The EPIC Collection can be directed to any specific application. Recognizing evolving environmental and legislative trends, the EPIC Collection delivers world class LED optical and performance solutions to the decorative luminaire marketplace.

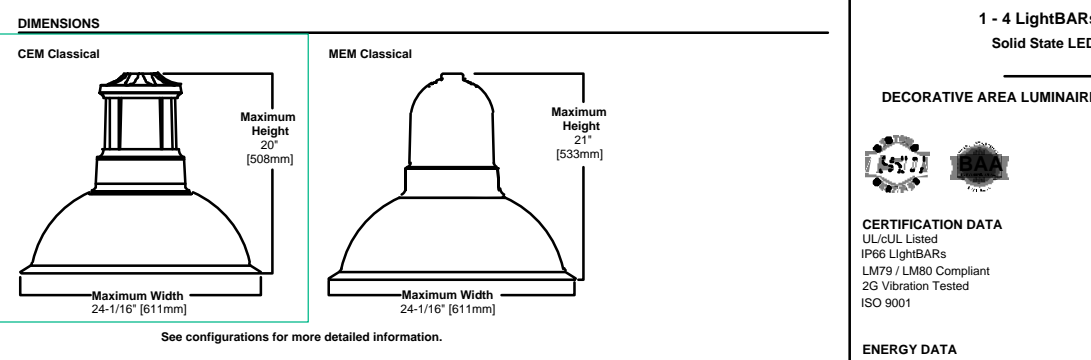
**CONNECTION**  
Cast aluminum top housing attaches to cast aluminum mounting arm hub with four stainless steel fasteners. One-piece silicone gasket between mounting hub and top casting seals out moisture and contaminants. (Only these connections are compatible with the EPIC luminaires.)  
Mid section features cast aluminum construction and stainless steel assembly. SHADOWS Heavy gauge precision spun aluminum shades offer superior surface finish and consistency in form. DOORFRAME Die-cast aluminum 18 in. c. door and doorframe seal to underside of shade with a thick continuous silicone gasket. Mounting hub shape attached to mounting arm.

**OPTICS**  
Choice of twelve patented, high-efficient, ACCULID™ IC technology manufactured from injection-molded acrylic. Optics are precisely designed to shape the projected light. ACCULID™ IC technology, creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (± 2700 CCT) and nominal color temperature of 70 CRI. Optional 3000K CCT and 5000K CCT. For the ultimate level of spill light control, an optional house-side shield is designed to be field or factory installed. The house-side shield is designed to be field or factory installed with the S.L.2, S.L.3 or S.A optics.

**FINISH**  
Housing is finished in free-stage super TDCX polyester powder-coat paint. 2.5 mil nominal thickness for superior protection against fade and UV. S.M.A. cover plates are standard white and may be specified to match finish of luminaire housing. Standard colors include black, bronze, grey, white, dark platinum and outdoor metallic. RAL and custom color matches available. Contact and brochure for a complete selection. Options to meet American and other domestic preference requirements.

**ELECTRIC**  
LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficiency, and prolonged life. Standard drivers feature electronic universal silicon gasket. Mounting hub shape attached to mounting arm.

**WARRANTY**  
Five-year warranty. All fixtures are shipped standard.



**POWER AND LUMENS BY BAR COUNT (1 LED LIGHTBARS)**

Number of Lightbars	BAR 1	BAR 2	BAR 3	BAR 4
Power (Watts)	28W	32W	37W	37W
Current @ 120V (A)	0.23	0.24	0.31	0.31
Current @ 277V (A)	0.10	0.10	0.10	0.10
Power (Watts)	32W	36W	39W	39W
Current @ 120V (A)	0.11	0.11	0.12	0.12
Current @ 277V (A)	0.05	0.05	0.05	0.05

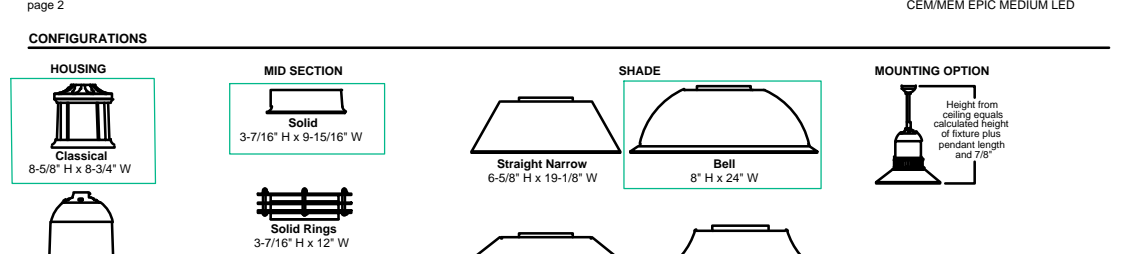
**POWER AND LUMENS BY BAR COUNT (7 LED LIGHTBARS)**

Number of Lightbars	BAR 1	BAR 2	BAR 3	BAR 4
Power (Watts)	196W	224W	259W	259W
Current @ 120V (A)	1.63	1.67	2.17	2.17
Current @ 277V (A)	0.74	0.74	0.74	0.74
Power (Watts)	224W	252W	270W	270W
Current @ 120V (A)	1.87	1.87	2.25	2.25
Current @ 277V (A)	0.83	0.83	0.83	0.83

**LUMEN MAINTENANCE**

Hours (Thousand)	25°C	40°C	50°C	60°C	70°C	80°C
1000	95%	90%	85%	80%	75%	70%
2000	90%	85%	80%	75%	70%	65%
3000	85%	80%	75%	70%	65%	60%
4000	80%	75%	70%	65%	60%	55%
5000	75%	70%	65%	60%	55%	50%
6000	70%	65%	60%	55%	50%	45%
7000	65%	60%	55%	50%	45%	40%
8000	60%	55%	50%	45%	40%	35%
9000	55%	50%	45%	40%	35%	30%
10000	50%	45%	40%	35%	30%	25%

COOPER LIGHTING

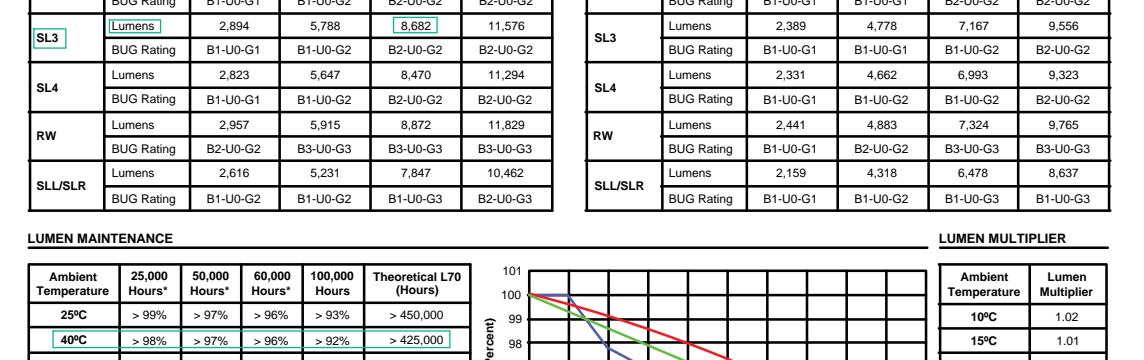


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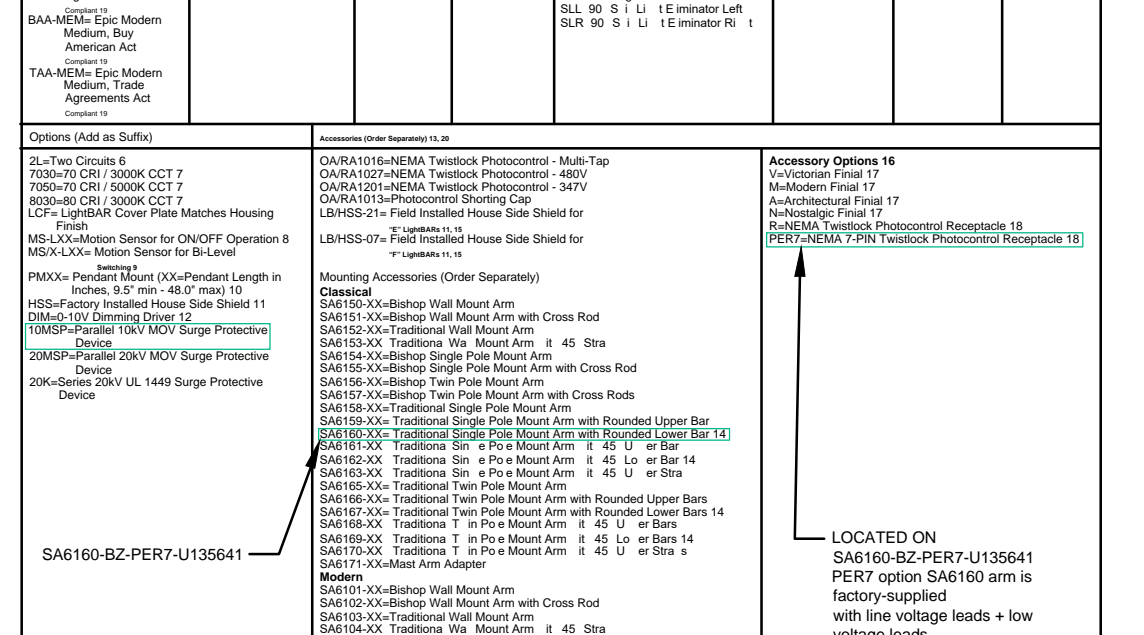
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4000	80%	75%	70%	65%	60%	55%
5000	75%	70%	65%	60%	55%	50%
6000	70%	65%	60%	55%	50%	45%
7000	65%	60%	55%	50%	45%	40%
8000	60%	55%	50%	45%	40%	35%
9000	55%	50%	45%	40%	35%	30%
10000	50%	45%	40%	35%	30%	25%

COOPER LIGHTING

**ORDERING INFORMATION**

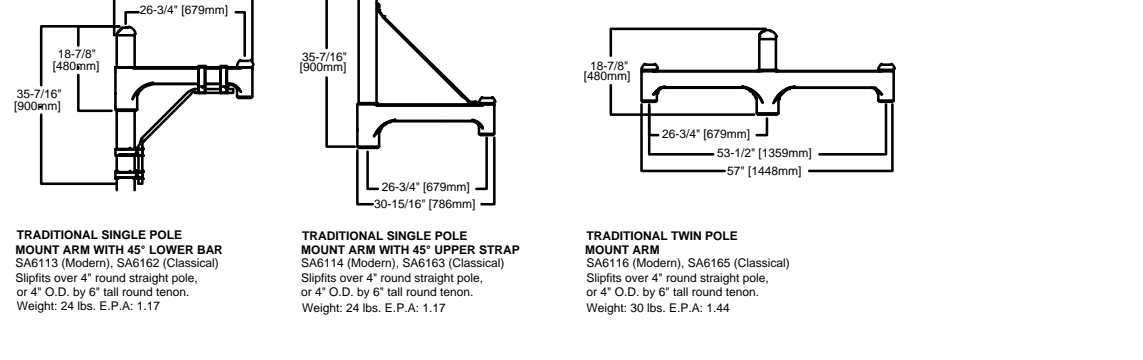
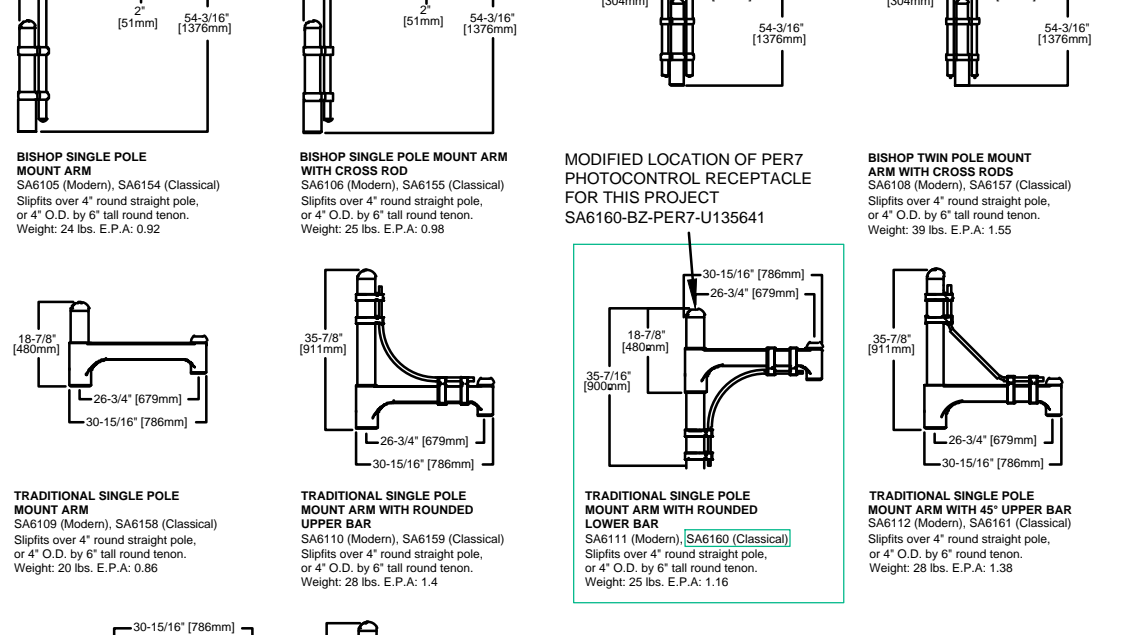
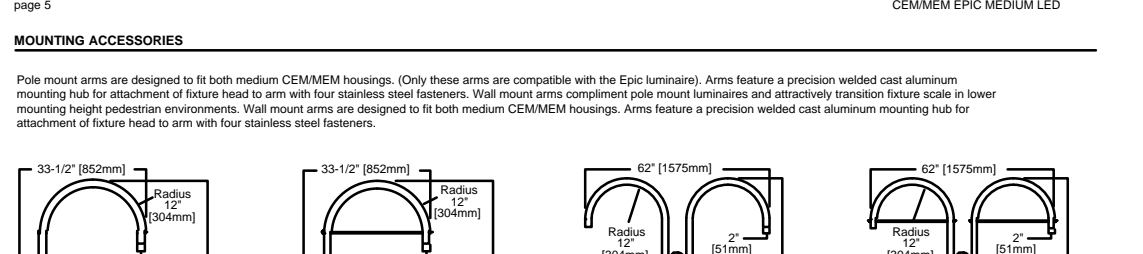
Part Number	Number of Lightbars	Lamp Type	Voltage	Distribution	Mid Section Type	Shade Type	Color
CEM-EPIC-Medium-LED-120V-FL-DM	1	LED	120V	24° Beam	SD-3561	Shadeless	White
CEM-EPIC-Medium-LED-277V-FL-DM	1	LED	277V	24° Beam	SD-3561	Shadeless	White
CEM-EPIC-Medium-LED-120V-FL-DM-7	7	LED	120V	24° Beam	SD-3561	Shadeless	White
CEM-EPIC-Medium-LED-277V-FL-DM-7	7	LED	277V	24° Beam	SD-3561	Shadeless	White



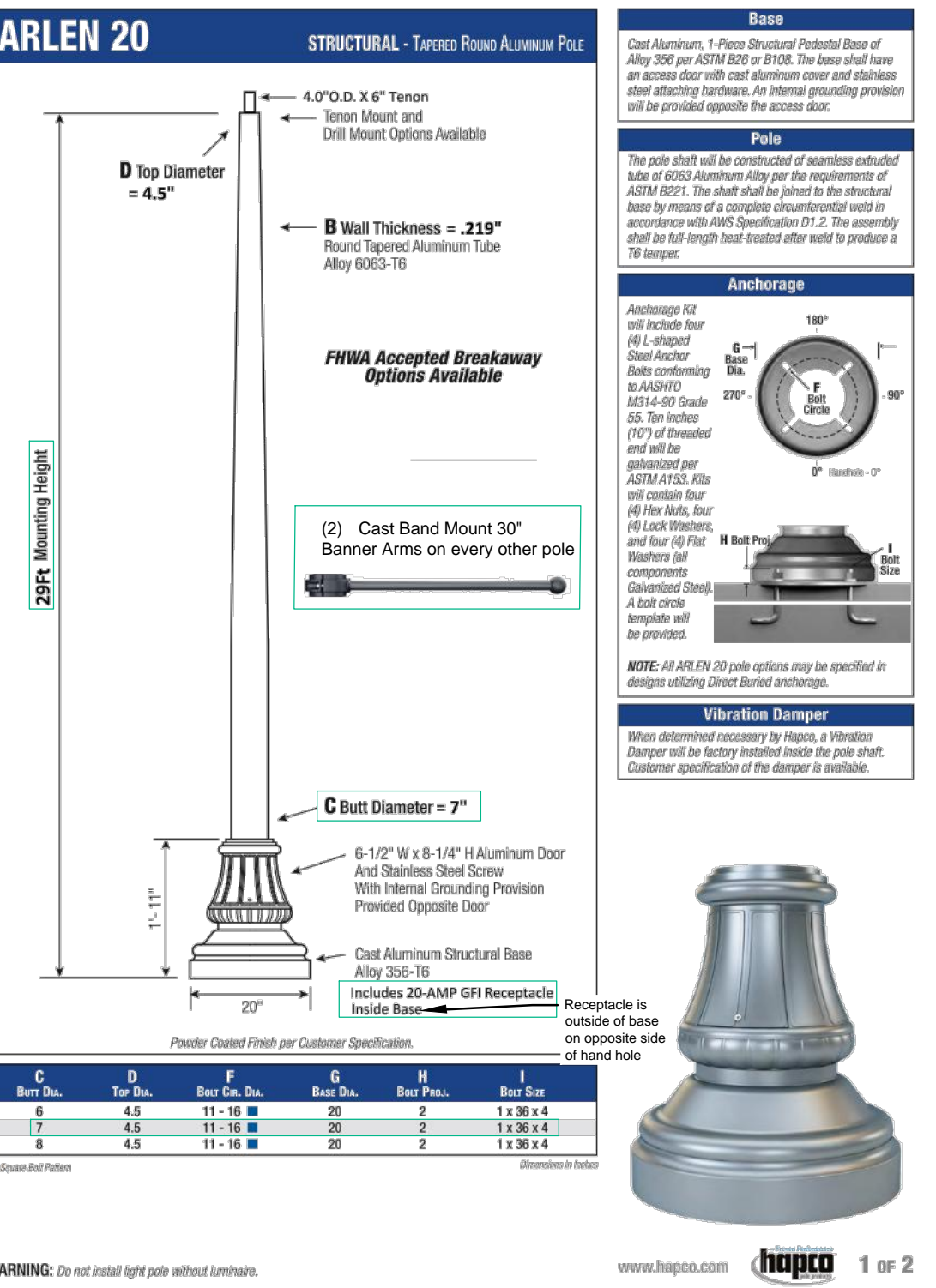
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5000	75%	70%	65%	60%	55%	50%
6000	70%	65%	60%	55%	50%	45%
7000	65%	60%	55%	50%	45%	40%
8000	60%	55%	50%	45%	40%	35%
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COOPER LIGHTING



COOPER LIGHTING



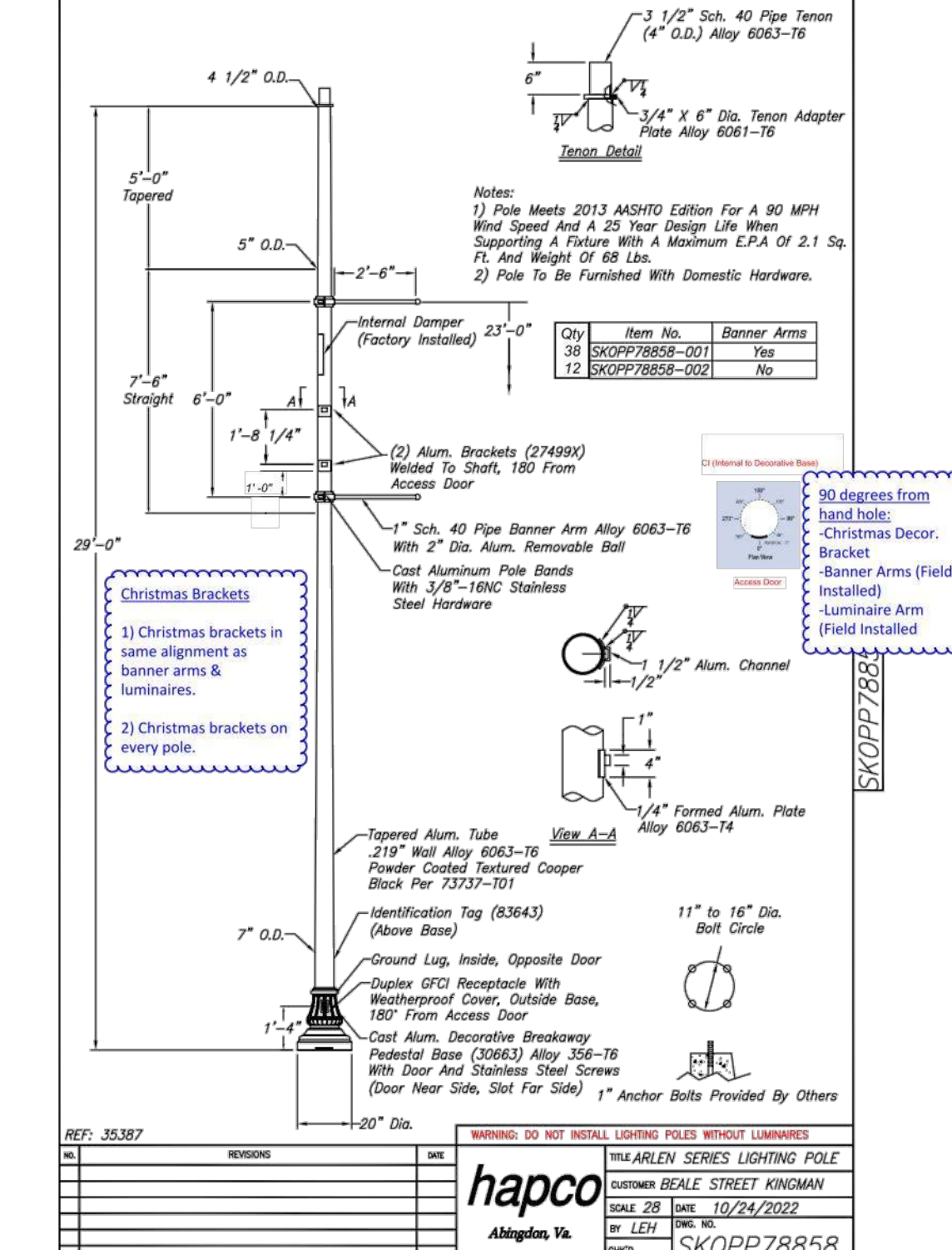
**ARLEN 20 STRUCTURAL TAPERED ROUND ALUMINUM POLE**

Height (ft)	Weight (lb)	Capacity (lb)	Capacity (kg)
10	100	1000	450
12	120	1200	540
14	140	1400	630
16	160	1600	720
18	180	1800	810
20	200	2000	900
22	220	2200	990
24	240	2400	1080
26	260	2600	1170
28	280	2800	1260
30	300	3000	1350
32	320	3200	1440
34	340	3400	1530
36	360	3600	1620
38	380	3800	1710
40	400	4000	1800

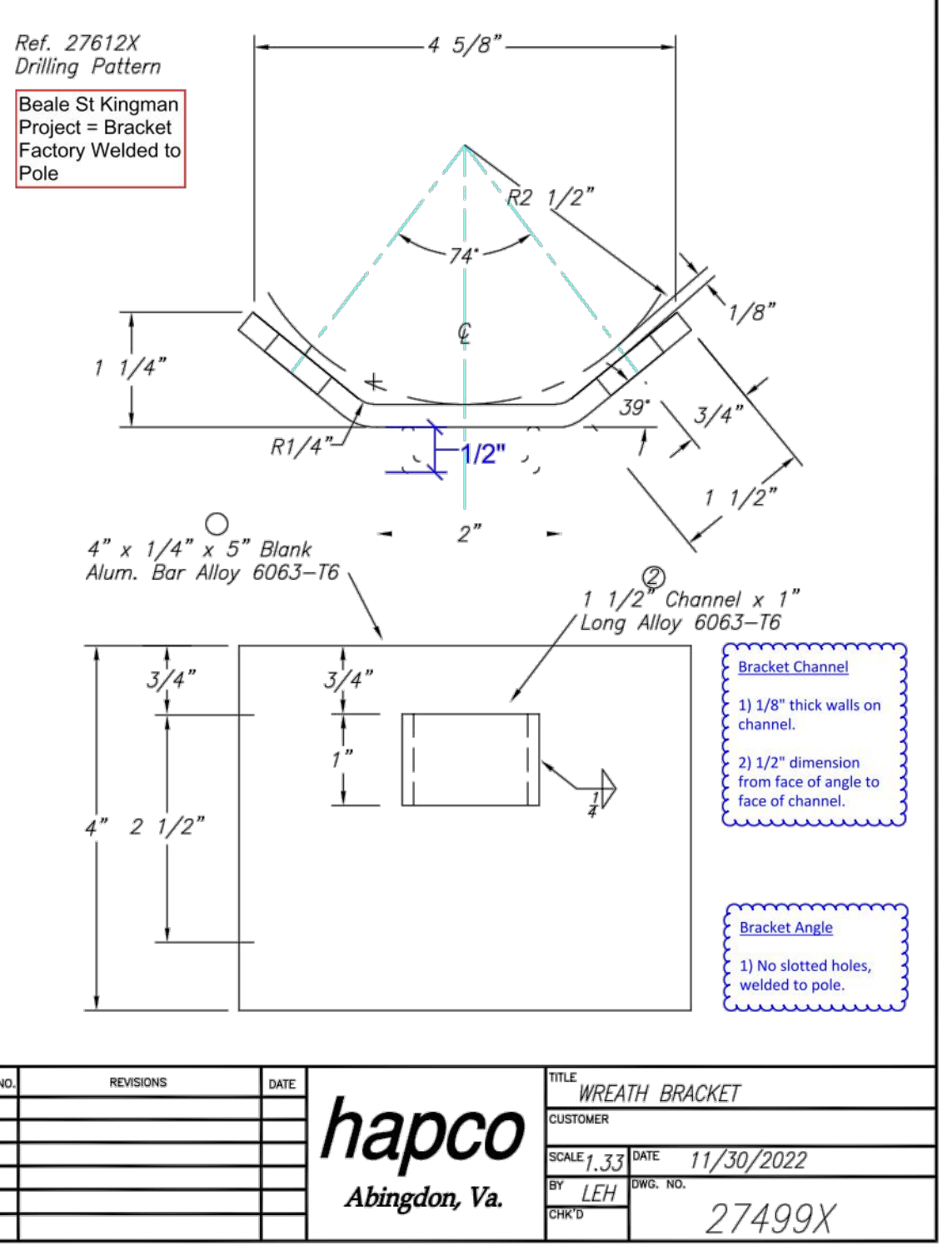
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20	200	2000	900
22	220	2200	990
24	240	2400	1080
26	260	2600	1170
28	280	2800	1260
30	300	3000	1350
32	320	3200	1440
34	340	3400	1530
36	360	3600	1620
38	380	3800	1710
40	400	4000	1800

COOPER LIGHTING



COOPER LIGHTING



COOPER LIGHTING

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**REVISIONS:**

NO.	REVISIONS	DATE
1		
2		
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4		
5		
6		
7		
8		
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10		

WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-233-6000  
FAX: 602-733-6100

**PROJECT:** KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023

PROJECT NO. 37205006  
DRAWING NAME SL09  
SHEET NO. 47 OF 63

WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-233-6000  
FAX: 602-733-6100





# CITY OF KINGMAN BEALE STREET IMPROVEMENTS

## PLANTING MATERIAL LEGEND

TREES	SIZE	NOTES	QTY
Existing Tree to Remain - Protect in Place			3
Existing Tree to be Removed			7
Pistacia chinensis	36" Box		46
Chinese Pistache	H 12'-14" W 6'-8" *ADWR		
Caliper Size: 3"			
Ulmus parvifolia	36" Box		60
Evergreen Elm 'Allee'	H 10'-12" W 6'-8" *ADWR		
Caliper Size: 3"			

SHRUBS / ACCENTS	QTY
Bouteloua Gracilis	5 Gallon 288
Blue Grama 'Blonde Ambition'	can full *ADWR
Euphorbia rigida	5 Gallon 111
Gopher Plant	can full *ADWR
Dasylirion wheeleri	5 Gallon 57
Desert Spoon	can full *ADWR

LANDSCAPE MATERIALS	QTY
Decomposed Granite. 3/4" minus, Mohave Gold, 2" deep in planting areas per plan.	4,210 S.F.
Beatty Apache Gold Rip Rap 1.0"-4.0" Cobble Rock No More Than 2" Above Grade, LID areas per plan, 8" layer.	5,920 S.F.

\*ADWR = Arizona Department of Water Resources Approved Low-Water Use Plant

\*\* DG/Rip Rap color alternates acceptable with Owner approval

## IRRIGATION LEGEND

SYMBOL	DESCRIPTION	NOTES
	WATER METER	PER LOCAL STANDARDS, NEW IRRIGATION METER - 1.0" SIZE
	RPBFA	BACKFLOW PREVENTER ASSEMBLY, FEBCO 825-Y, 1.0" SIZE PER PLAN, PROVIDE METAL ENCLOSURE.
	CONTROLLER	CONTROLLER A+B = 12 STATION HUNTER XC SOLAR, PROVIDE LEMA 1600 HE SOLENOID ACTUATOR FOR EACH VALVE, STEEL POST MOUNT AND LOCKING ENCLOSURE, PROVIDE LIGHTNING AND GROUNDING PROTECTION
	CONTROL VALVE	HUNTER SERIES ICV SIZE PER PLAN
	FLOW SENSOR	DATA INDUSTRIAL - BRASS, NTP THREADED CONNECTION, 1" SIZE.
	GATE VALVE	NIBCO MODEL# T-113, SIZE PER LINE BRONZE MATERIAL
	DRIP VALVE	HUNTER ICV SERIES WITH 150 MESH WYE-STRAINER SIZE PER PLAN
	FLUSH CAP	SPEARS FLUSH CAP 1/2" FLUSH VALVE
	PRESSURE REG.	SENNIGER 30 PSI - LOCATE IN SEPARATE BOXES MEDIUM FLOW 2-20GPM - 30 PSI (100 MESH)
	EMITTER - SP	BOWSMITH 1.0 GPH (1 PER PLANT)
	EMITTER - MP	BOWSMITH 1.0 GPH 6 PORT (2 PER TREE) GROUPS OF SHRUBS WITHIN 6'.
	SERVICE POINT	CONNECT TO EXISTING POTABLE WATER SERVICE

PIPE LEGEND	DESCRIPTION
	MAINLINE - SIZE PER PLAN PVC SCH. 40
	TREE LATERAL PVC SCH. 40 - SOLVENT WELD
	SHRUB LATERAL PVC SCH. 40 - SOLVENT WELD
	WIRE SLEEVE PVC SCH. 40 - MINIMUM 1 1/2" SIZE
	PIPE SLEEVE PVC SCH. 40 - 2 X PIPE SIZE MINIMUM

## LANDSCAPE GENERAL NOTES

- PERFORM WORK IN ACCORDANCE WITH THESE PLANS, DETAILS, AND SPECIFICATIONS.
- CAREFULLY INSPECT SITE AND VERIFY CONDITIONS PRIOR TO BIDDING. NOTIFY LANDSCAPE ARCHITECT OF DISCREPANCIES WITH THESE DOCUMENTS PRIOR TO BEGINNING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF THE ABOVE STANDARDS, SPECIFICATIONS AND DRAWINGS, AS WELL AS ALL OTHER STANDARDS AND SPECIFICATIONS WHICH MAY BE NECESSARY TO COMPLETELY AND ACCURATELY INTERPRET THESE PLANS.
- HOLD HARMLESS AND INDEMNIFICATION CLAUSE - THE CONTRACTOR SHALL AGREE THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. INCLUDING SAFETY TO ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE LANDSCAPE ARCHITECT HARMLESS FROM ANY AND ALL LIABILITY; REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE LANDSCAPE ARCHITECT.
- UNAUTHORIZED CHANGES TO DRAWINGS - THE LANDSCAPE ARCHITECT SHALL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF DRAWINGS. CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
- UNDERGROUND SERVICE ALERT - NOTIFY BLUE STAKE 48 HOURS PRIOR TO DIGGING AT 1-800-STAKE-IT. EXERCISE EXTREME CARE IN WORKING NEAR EXISTING UTILITIES. VERIFY THE LOCATION AND CONDITION OF UTILITIES PRIOR TO CONSTRUCTION.
- INSPECTIONS - NOTIFY CITY REPRESENTATIVE AND APPROPRIATE AGENCY REPRESENTATIVE AT LEAST 48 HOURS IN ADVANCE PRIOR TO REQUIRED GOVERNING AGENCY INSPECTION.
- QUANTITIES INDICATED IN DRAWINGS ARE PROVIDED AS A COURTESY ONLY. VERIFY QUANTITIES SHOWN BY CONDUCTING AN INDEPENDENT QUANTITY TAKE OFF.
- CITY OF KINGMAN AND LANDSCAPE ARCHITECT WILL DECIDE QUESTIONS RELATING TO INTERPRETATION OF DRAWINGS AND ACCEPTABLE FULFILLMENT OF THE WORK SHOWN IN CONTRACT DOCUMENTS.
- MAINTAIN PREMISES CLEAN AND FREE OF EXCESS EQUIPMENT, MATERIALS, AND RUBBISH INCIDENTAL TO THE WORK AT ALL TIMES INCLUDING WEEKENDS AND HOLIDAYS. DISPOSE OF RUBBLE, TRASH, OR DISPOSABLE ITEMS RESULTING FROM DEMOLITION IN A LEGAL, LAWFUL, AND SAFE MANNER TO AN APPROVED DISPOSAL SITE.
- APPLY PRE-EMERGENT AFTER COMPLETION OF EARTHWORK, LEACHING, BED PREPARATION AND FINE GRADING PRIOR TO TOP DRESS.
- ALL EXISTING LANDSCAPE AREAS OUTSIDE THE PROJECT AREA THAT ARE DISTURBED BY ANY ACTIVITY UNDER THIS CONTRACT SHALL BE REPAIRED TO EQUAL OR BETTER CONDITION AND TO THE SATISFACTION OF THE CITY AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL PROVIDE FLAGGED AND/OR STAKED LAYOUT OF ALL PLANTING LOCATIONS FOR REVIEW AND ADJUSTMENT, IF NECESSARY, BY THE CITY'S REPRESENTATIVE PRIOR TO STARTING IRRIGATION OR PLANT PIT EXCAVATIONS.
- ANY AND ALL PLANTS OR TREES, NOT DESIGNATED TO BE REMOVED, WHICH ARE DISTURBED OR DAMAGED AS A RESULT OF WORK UNDER THIS CONTRACT SHALL BE REPLACED AT CONTRACTOR'S EXPENSE WITH A PLANT OF EQUAL OR BETTER QUALITY AND OF THE SAME SIZE AND SPECIES OF THE ORIGINAL EXISTING PLANT UNLESS OTHERWISE DIRECTED BY THE CITY'S REPRESENTATIVE.
- CONTRACTOR SHALL FINE GRADE AREAS PRIOR TO PLANTING. FINE GRADING SHALL INCLUDE THE REMOVAL OF DEBRIS, ROCKS, ETC., FROM THE SITES, FORMING LOW-FLOW CHANNEL FOOTPRINTS AS NOTED ON THE PLANS, BACKFILLING BEHIND BOULDERS ON LOW-FLOW CHANNEL SLOPES, AND ENSURE POSITIVE DRAINAGE.
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS, WALLS, UTILITY EQUIPMENT, ETC.
- THE IRRIGATION SYSTEM IS TO BE FULLY OPERATIONAL AND EFFECTIVE PRIOR TO THE INSTALLATION OF PLANT MATERIAL.

## HARDSCAPE GENERAL NOTES

- CONTRACTOR SHALL LAYOUT AND VERIFY ALL HARDSCAPE ELEMENTS PRIOR TO CONSTRUCTION FOR REVIEW BY THE LANDSCAPE ARCHITECT OR CITY'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT THE CITY'S AUTHORIZED REPRESENTATIVE SHOULD ANY DISCREPANCIES EXIST. THE CONTRACTOR SHALL SUBMIT IN WRITING SUGGESTED MODIFICATION AND RECEIVE TRANSMITTED RECORD OF APPROVAL FROM CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- DIMENSIONS SHOWN ON THIS PLAN ARE BASED ON THE DOCUMENTS SUBMITTED BY THE PROJECT CIVIL ENGINEER. THE CONTRACTOR SHALL CONTACT THE OWNER'S AUTHORIZED REPRESENTATIVE SHOULD ANY DISCREPANCIES OCCUR. THE CONTRACTOR SHALL SUBMIT IN WRITING SUGGESTED MODIFICATION AND RECEIVE TRANSMITTED RECORD OF APPROVAL FROM OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCEMENT OF ANY FIELD REVISIONS.
- REFER TO CONSTRUCTION DOCUMENTS PREPARED BY THE PROJECT CIVIL ENGINEER FOR ALL INFORMATION REGARDING HORIZONTAL AND VERTICAL CONTROL DIMENSIONS.
- CONTRACTOR SHALL BE RESPONSIBLE TO HAVE ALL STRUCTURES REPRESENTED IN THE CONTRACT DOCUMENTS REVIEWED BY A REGISTERED STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION UNLESS OTHERWISE STATED.
- FOOTINGS, WALLS, AND FENCES SHALL BE PLACED WITHIN THE CITY RIGHT-OF-WAY.
- CONTRACTOR SHALL HAVE SIDEWALKS SURVEYED AND STAKED FOR REVIEW BY THE ENGINEER / OWNERS REPRESENTATIVE PRIOR TO INSTALLATION. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT 48 HOURS IN ADVANCE FOR SITE REVIEW.
- CONTRACTORS SHOULD PREPARE A 4'X4' SAMPLE PANEL FOR EACH TYPE OF HARDSCAPE MATERIALS SPECIFIED IN THE CONTRACT DOCUMENTS FOR APPROVAL BY THE LANDSCAPE ARCHITECT AND OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING STAINS AND SPILLS ON FINISHED HARDSCAPE IMMEDIATELY.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING FINISHED WORK UNTIL PROJECT ACCEPTANCE BY CITY'S REPRESENTATIVE.

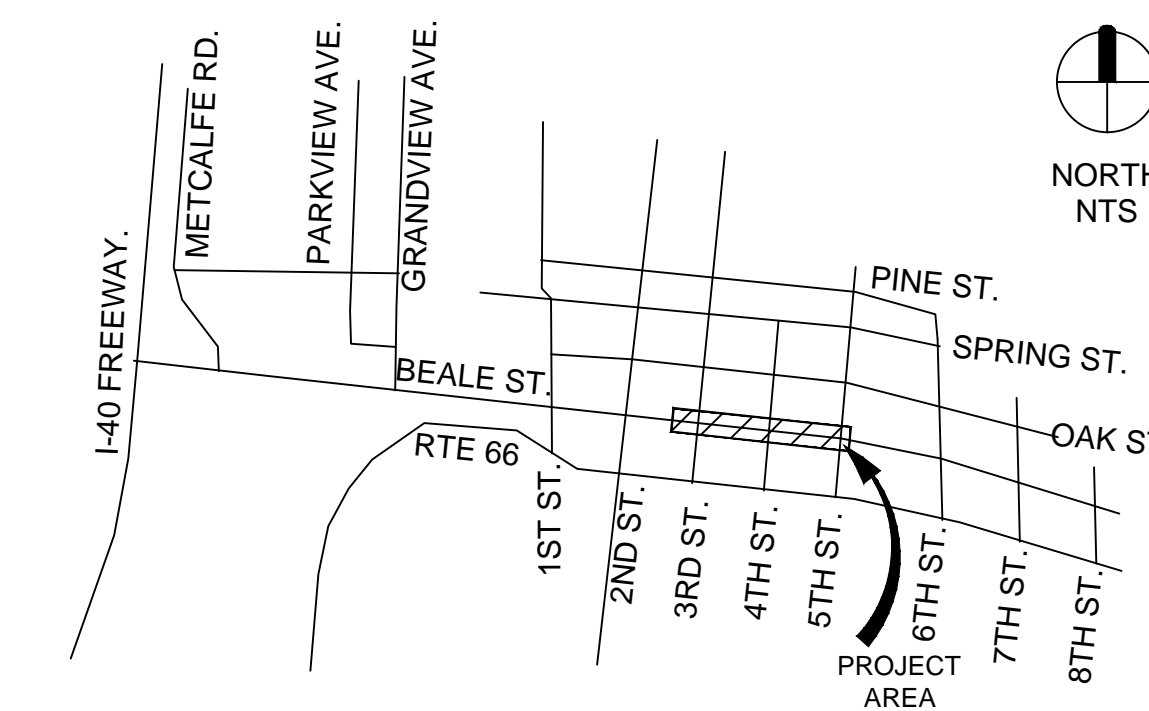
## SHEET INDEX

SHEET	TITLE
L0.1	LANDSCAPE COVER
L1.0-L1.4	LANDSCAPE PLAN
L2.0-L2.4	IRRIGATION PLAN
L3.0	LANDSCAPE DETAILS
L4.0	HARDSCAPE DETAILS
L5.0-L5.1	IRRIGATION DETAILS

## LANDSCAPE ARCHITECT

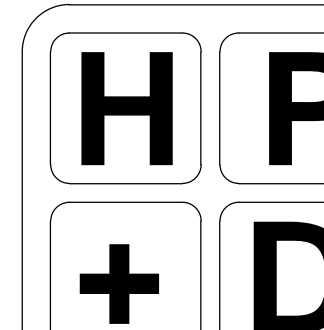
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MESA, ARIZONA 85215  
JASON HARRINGTON, RLA, ASLA, ASIC, APWA  
(480) 250-0116  
JASON@HARRINGTONPLANNINGDESIGN.COM

## VICINITY MAP



## IRRIGATION GENERAL NOTES

- IRRIGATION PLAN IS DIAGRAMMATIC. ADJUST LOCATION OF VALVES TO PROVIDE FULL AND ADEQUATE COVERAGE OR ADD EMITTERS AS NECESSARY TO ENSURE 100% COVERAGE OF PLANT MATERIALS. PREVENT OVERSPRAY ON ADJACENT IMPROVEMENTS.
- VERIFY WATER PRESSURE IN FIELD AND NOTIFY OWNER IMMEDIATELY SHOULD A DISCREPANCY EXIST.
- SYSTEM DESIGN REQUIRES A STATIC PRESSURE OF 60 TO 75 PSI. CONTRACTOR SHALL PERFORM A FIELD VERIFICATION OF THE PRESSURE READING PRIOR TO ORDERING MATERIALS OR STARTING IRRIGATION.
- COORDINATE IRRIGATION SLEEVES LOCATION AND SIZE WITH A MINIMUM DIAMETER TWICE THE SIZE OF THE IRRIGATION LINE. EXTEND SLEEVES 12" BEYOND EDGE OF PAVEMENT, WALL, WALKS OR CURB.
- PROGRAM CONTROLLERS TO MAINTAIN SUFFICIENT FLOW RATES THROUGHOUT THE SYSTEM. ADJUST AS REQUIRED FOR SEASON AND PLANT MATERIAL UNTIL FINAL ACCEPTANCE.
- LOCATE TAN COLOR (CARSON OR EQUAL) VALVE BOXES (IRRIGATION, GATE VALVE, FLUSH CAP, CONTROL WIRE AND OTHERS) IN PLANTER AREAS. DO NOT LOCATE VALVE BOXES IN A LAWN OR HARDSCAPE UNLESS REQUIRED AND APPROVED BY OWNER.
- ALL IRRIGATION EQUIPMENT DESCRIBED IN LEGEND WILL BE ACCEPTED AS APPROVED EQUALS FOR PERFORMANCE. CONTRACTOR MAY SUBMIT FOR REVIEW EQUAL PERFORMANCE EQUIPMENT.
- MAINTAIN OR RESTORE ALL EXISTING LANDSCAPE IRRIGATION SYSTEMS IMPACTED BY ANY WORK PERFORMED UNDER THIS CONTRACT. RESTORE IRRIGATION TO PROVIDE 100% SERVICE AND COVERAGE.
- CONTRACTOR SHALL REVIEW AND FIELD VERIFY LAYOUT OF ALL IRRIGATION SYSTEM COMPONENTS AND HAVE THE LAYOUT APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO STARTING INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL PIPING NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERATIONAL IRRIGATION SYSTEM INCLUDING ALL SUB-LATERAL PIPING, FITTINGS, AND RISERS TO EACH PLANT EMITTER AS SPECIFIED AND AS DETAILED, WHETHER OR NOT PIPING IS SHOWN ON THE PLANS.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF IRRIGATION SLEEVING WITH OTHER CONTRACTORS PRIOR TO CONSTRUCTION OF PAVEMENT, WALKS, AND OTHER HARDSCAPE FEATURES.
- THREADED JOINTS SHALL BE WRAPPED WITH TEFLON TAPE UNLESS OTHERWISE SPECIFIED BY MANUFACTURER. USE LIQUID TEFLON ON METAL PIPE THREADS ONLY.
- VALVE CORNERS, VAULT BOXES, ETC. SHALL BE PLACED SO THE EDGES ARE PARALLEL OR PERPENDICULAR TO ADJACENT HARD EDGES. TOP OF BOX IS TO BE FLUSH WITH GRADE. TOP SURFACE OF BOX SHALL BE INSTALLED SO THAT A SMOOTH SURFACE IS CREATED IN RELATION TO EXISTING GRADES.
- NO PVC PIPING SHALL BE LOCATED UNDER TREE ROOTBALLS.



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CITY OF KINGMAN  
BEALE STREET IMPROVEMENTS  
Beale Street  
Kingman, Arizona 86401

REV.	COMMENT	DATE

100% Submittal VE	06.06.23
100% Submittal	01.18.23
90% Submittal R1	12.05.22
90% Submittal	03.04.22
60% Submittal	08.06.21
30% Submittal	04.12.21
ISSUE	DATE

## LANDSCAPE PACKAGE

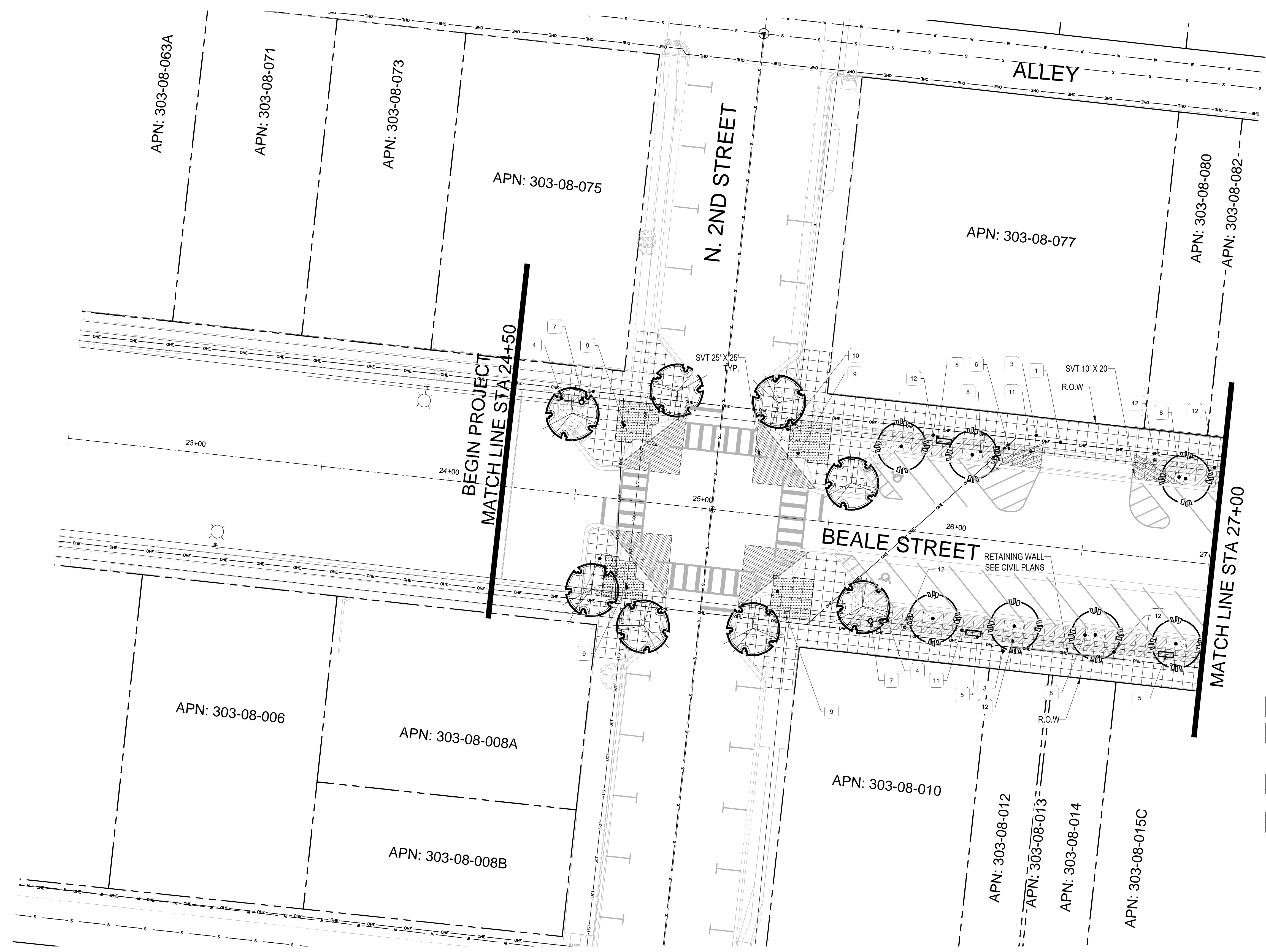
DATE:	June 6, 2023
DRAWN BY:	BZS
CHECK BY:	JEH
PROJ. NO.:	2020-007
CASE NO.:	17-2597

## LANDSCAPE COVER

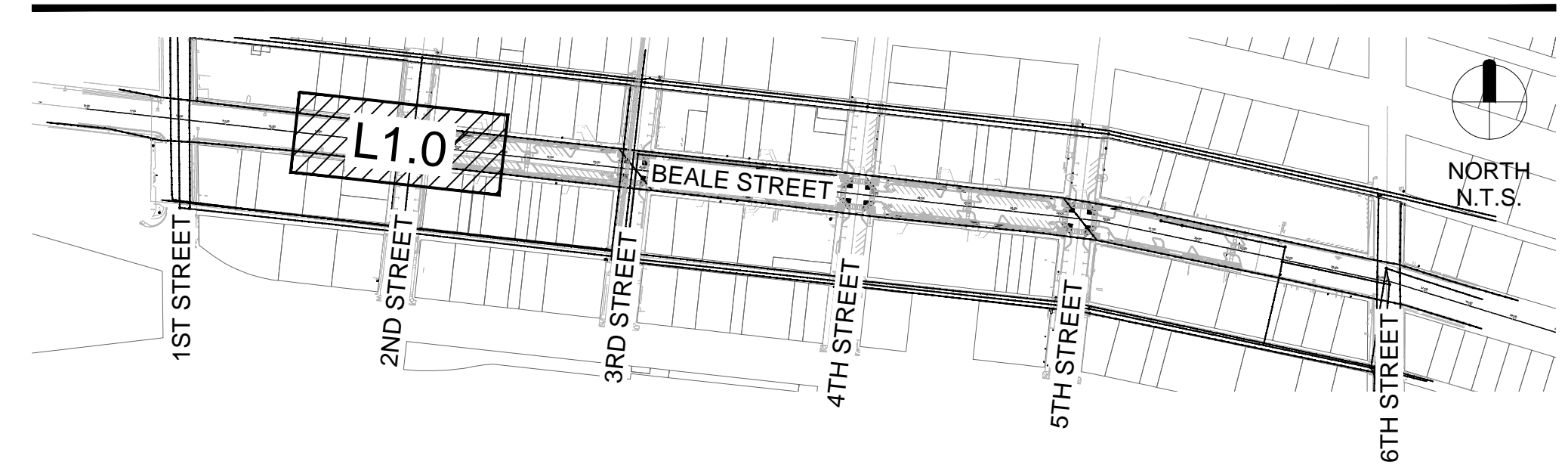
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**KEY MAP**



**PLANTING MATERIAL LEGEND**

TREES	SIZE	NOTES	QTY
	Existing Tree to Remain - Protect in Place		3
	Existing Tree to be Removed		7
	Pistacia chinensis Chinese Pistache Caliper Size: 3"	36" Box H 12'-14' W 6'-8" *ADWR	46
	Ulmus parvifolia Evergreen Elm 'Allee' Caliper Size: 3"	36" Box H 10'-12' W 6'-8" *ADWR	60
SHRUBS / ACCENTS			QTY
	Bouteloua Gracillis Blue Grama 'Blonde Ambition'	5 Gallon can full *ADWR	288
	Euphorbia rigida Gopher Plant	5 Gallon can full *ADWR	111
	Dasyliroon wheeleri Desert Spoon	5 Gallon can full *ADWR	57
LANDSCAPE MATERIALS			
	Decomposed Granite, 3/4" minus, Mohave Gold, 2" deep in planting areas per plan.		4,210 S.F.
	Beatty Apache Gold Rip Rap 1.0"-4.0" Cobble Rock No More Than 2" Above Grade, LID areas per plan, 8" layer.		5,920 S.F.

\*ADWR = Arizona Department of Water Resources Approved Low-Water Use Plant  
 \*\* DG/Rip Rap color alternates acceptable with Owner approval

**NOTES**

- SEE CIVIL PLANS FOR REMOVALS AND PROTECTIONS.
- MATCH PROPOSED HARDSCAPE TO EXISTING.

**KEYNOTE LEGEND**

KEY	DESCRIPTION
	EX. UTILITY FACILITY, SEE CIVIL PLANS FOR PROTECT IN PLACE OR RELOCATION INSTRUCTIONS
	EX. FIRE HYDRANT, SEE CIVIL PLANS FOR PROTECT IN PLACE OR RELOCATION INSTRUCTIONS
	PEDESTRIAN SIDEWALK ZONE - CONCRETE, 4' X 4' SCORE PATTERN, STANDARD CONCRETE, MEDIUM BROOM FINISH
	NEW WAYFINDING SIGN, SEE DET.
	SITE FURNISHING - BENCH, 6'-0" MAPLE BENCH LASER CUT BACKREST BY PREMIER SITE FURNITURE, SEE DET., FINISH BLACK, SURFACE MOUNT
	SITE FURNISHING - BIKE RACK, MADRAX PIERCE SERIES POST, SEE DET., FINISH BLACK, SURFACE MOUNT
	SITE FURNISHING - TRASH RECEPTACLE, OAK RECEPTACLE LASER CUT LOGO BY PREMIER SITE FURNITURE, SEE DET., FINISH BLACK, SURFACE MOUNT
	LANDSCAPE AREA, SEE LS LEGEND FOR DG SIZE & COLOR
	INTERSECTION NODE PAVEMENT, EXPOSED AGGREGATE PAVEMENT, SOLOMON COLOR - 489 DARKER REDWOOD, OR APPROVED FINISH
	NEW LIGHTING, SEE ELECTRICAL PLANS
	STAINED CONCRETE, 4'X4' SCORE PATTERN, MEDIUM BROOM FINISH, SOLOMON COLOR - 489 DARKER REDWOOD, OR APPROVED FINISH
	STORY TELLING NODE - 16"X48", HISTORICAL PAVEMENT, MATERIAL PROVIDED BY CITY OF KINGMAN, SAND SET

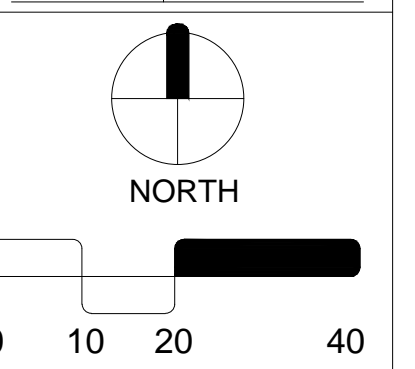
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**CITY OF KINGMAN**  
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**LANDSCAPE PACKAGE**  
 June 6, 2023  
 DRAWN BY: BZS  
 CHECK BY: JEH  
 PROJ. NO.: 2020-007  
 CASE NO.: 17-2597



**LANDSCAPE PLAN**

**L1.0**  
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**ARIZONA BLUESTAKE CENTER**  
 CALL TWO WORKING DAYS BEFORE YOU DIG  
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**PLANTING MATERIAL LEGEND**

TREES	SIZE	NOTES	QTY
(+)		Existing Tree to Remain - Protect in Place	3
(⊗)		Existing Tree to be Removed	7
(P)	36" Box	Pistacia chinensis	46
(C)	H 12'-14' W 6'-8'	Chinese Pistache Caliper Size: 3"	*ADWR
(E)	36" Box	Ulmus parvifolia	60
(A)	H 10'-12' W 6'-8'	Evergreen Elm 'Allee' Caliper Size: 3"	*ADWR
SHRUBS / ACCENTS			QTY
(B)	5 Gallon	Bouteloua Gracillis	288
(G)	can full	Blue Grama 'Blonde Ambition'	*ADWR
(E)	5 Gallon	Euphorbia rigida	111
(G)	can full	Gopher Plant	*ADWR
(D)	5 Gallon	Dasyliroon wheeleri	57
(S)	can full	Desert Spoon	*ADWR
LANDSCAPE MATERIALS			
(D)	3/4" minus, Mohave Gold, 2" deep in planting areas per plan.	Decomposed Granite.	4,210 S.F.
(R)	1.0"-4.0" Cobble Rock	Beatty Apache Gold Rip Rap	5,920 S.F.
No More Than 2" Above Grade, LID areas per plan, 8" layer.			

\*ADWR = Arizona Department of Water Resources Approved Low-Water Use Plant  
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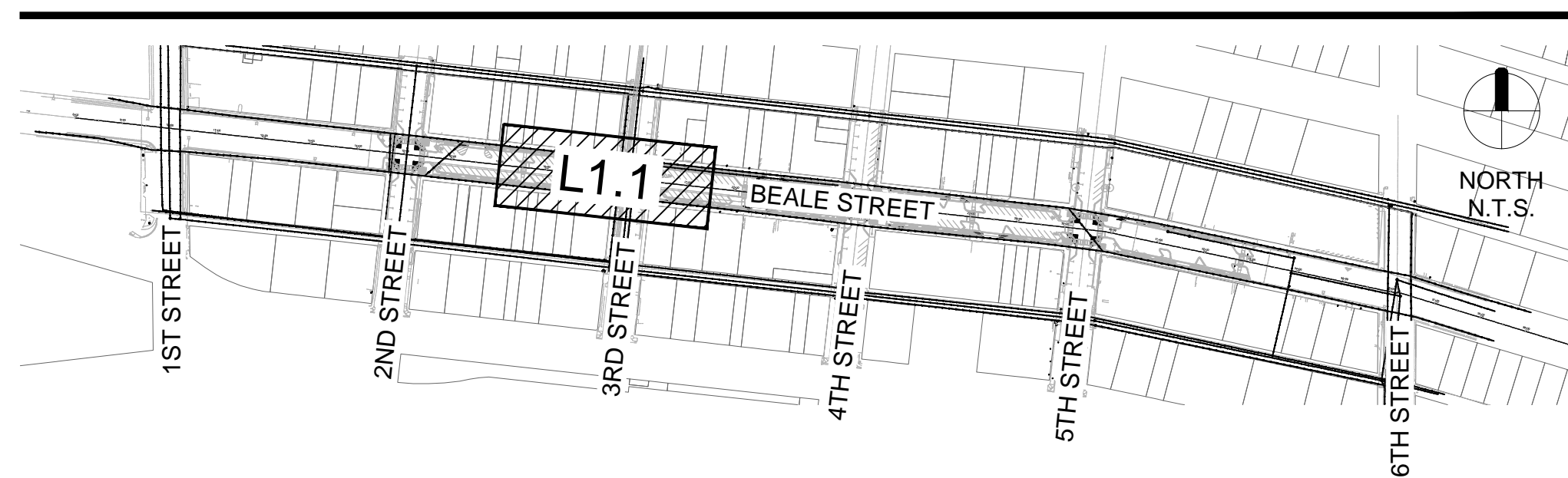
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**KEY MAP**



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LANDSCAPE ARCHITECT  
44161  
JASON E.  
HARRINGTON  
06.06.23  
ARIZONA U.S.A.

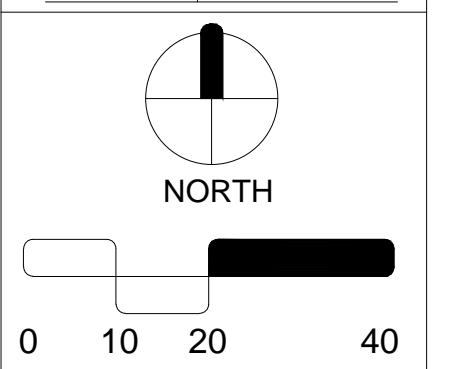
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**LANDSCAPE PACKAGE**

June 6, 2023

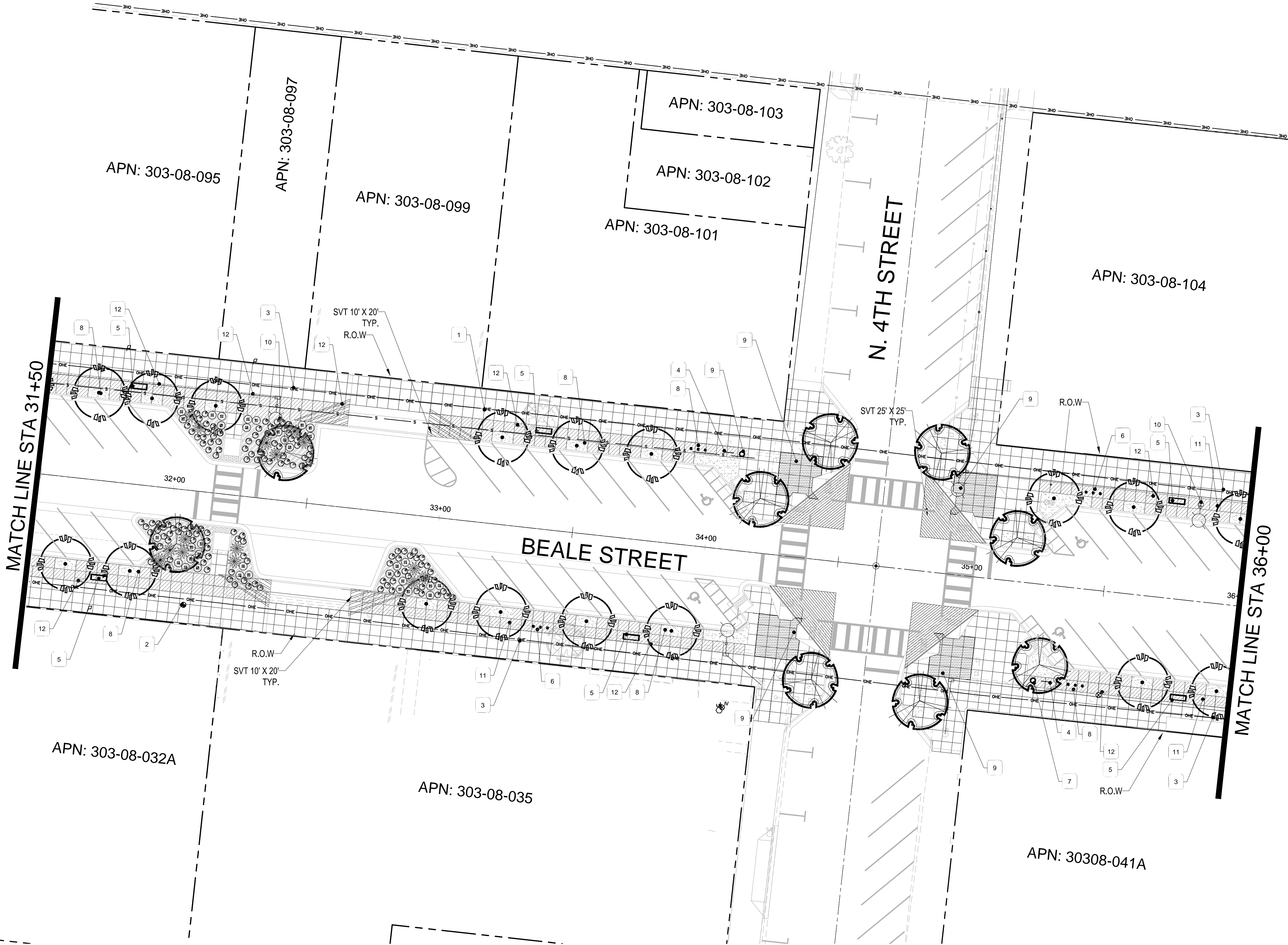
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**LANDSCAPE PLAN**  
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**ARIZONA BLUESTAKE CENTER**  
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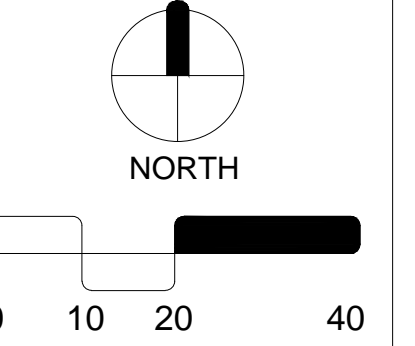
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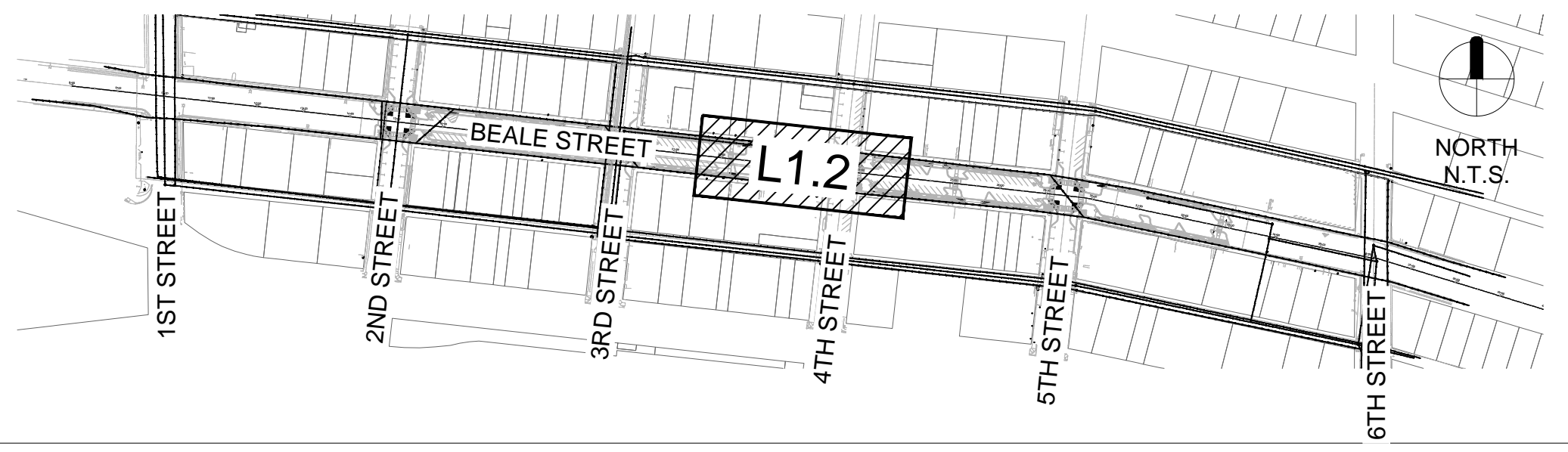
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**LANDSCAPE PLAN**

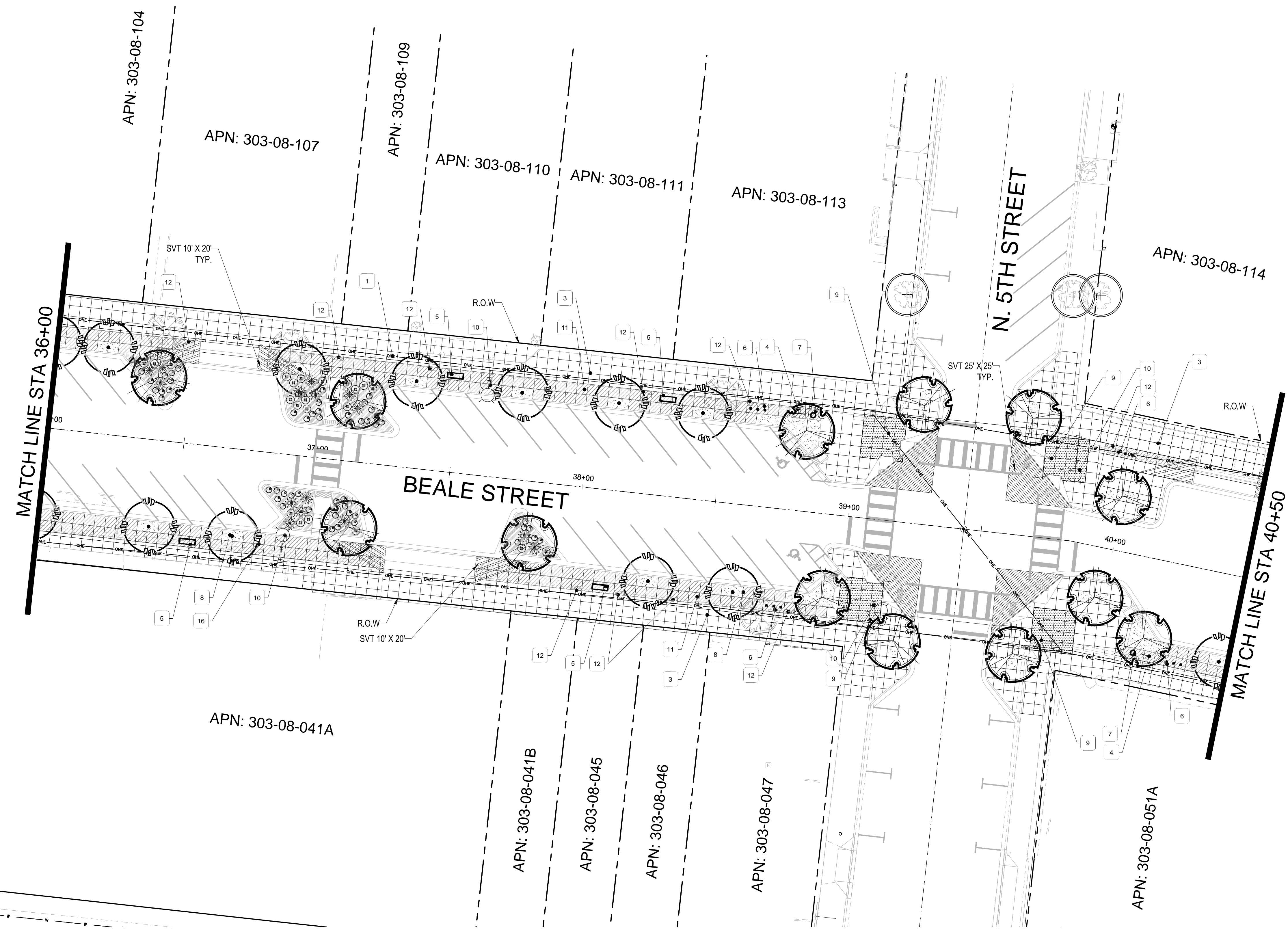
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**KEY MAP**



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Existing Tree to be Removed			7
Pistacia chinensis Chinese Pistache Caliper Size: 3"	36" Box H 12'-14" W 6'-8"	*ADWR	46
Ulmus parvifolia Evergreen Elm 'Allee' Caliper Size: 3"	36" Box H 10'-12" W 6'-8"	*ADWR	60
SHRUBS / ACCENTS			QTY
Bouteloua Gracillis Blue Grama 'Blonde Ambition'	5 Gallon can full	*ADWR	288
Euphorbia rigida Gopher Plant	5 Gallon can full	*ADWR	111
Dasyliroon wheeleri Desert Spoon	5 Gallon can full	*ADWR	57
LANDSCAPE MATERIALS			
Decomposed Granite, 3/4" minus, Mohave Gold, 2" deep in planting areas per plan.			4,210 S.F.
Beatty Apache Gold Rip Rap 1.0"-4.0" Cobble Rock No More Than 2" Above Grade, LID areas per plan, 8" layer.			5,920 S.F.

\*ADWR = Arizona Department of Water Resources Approved Low-Water Use Plant  
\*\* DG/Rip Rap color alternates acceptable with Owner approval

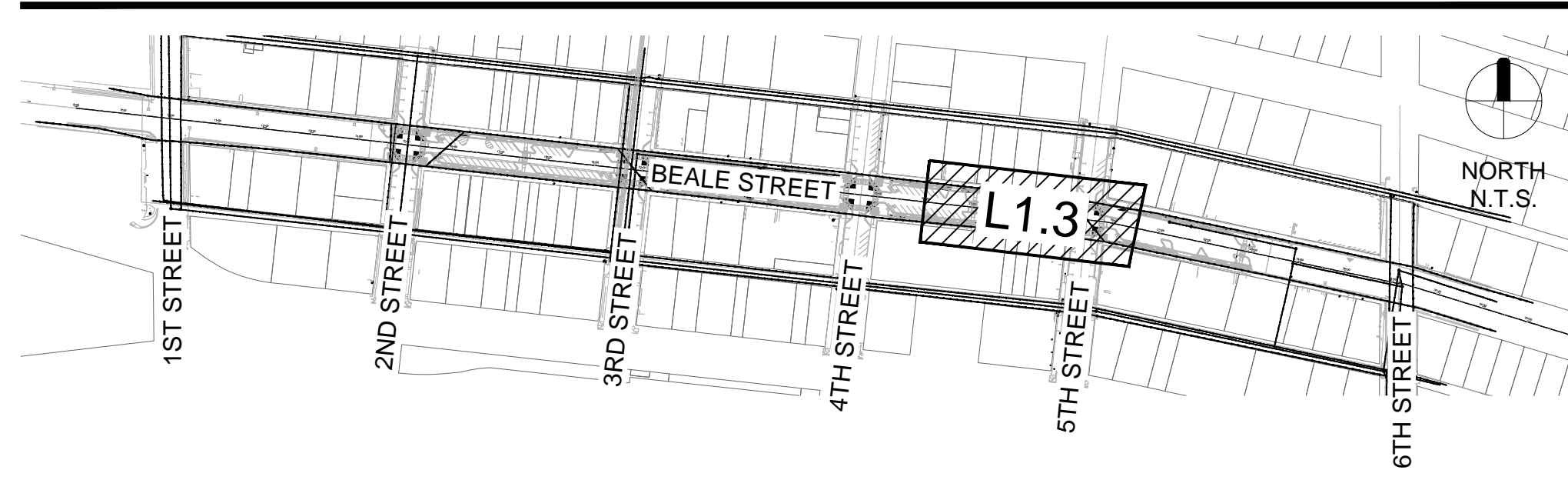
**NOTES**

- SEE CIVIL PLANS FOR REMOVALS AND PROTECTIONS.
- MATCH PROPOSED HARDSCAPE TO EXISTING.

**KEYNOTE LEGEND**

- KEY
- 1 EX. UTILITY FACILITY, SEE CIVIL PLANS FOR PROTECT IN PLACE OR RELOCATION INSTRUCTIONS
  - 2 EX. FIRE HYDRANT, SEE CIVIL PLANS FOR PROTECT IN PLACE OR RELOCATION INSTRUCTIONS
  - 3 PEDESTRIAN SIDEWALK ZONE - CONCRETE, 4' X 4' SCORE PATTERN, STANDARD CONCRETE, MEDIUM BROOM FINISH
  - 4 NEW WAYFINDING SIGN, SEE DET.
  - 5 SITE FURNISHING - BENCH, 6'-0" MAPLE BENCH LASER CUT BACKREST BY PREMIER SITE FURNITURE, SEE DET., FINISH BLACK, SURFACE MOUNT
  - 6 SITE FURNISHING - BIKE RACK, MADRAX PIERCE SERIES POST, SEE DET., FINISH BLACK, SURFACE MOUNT
  - 7 SITE FURNISHING - TRASH RECEPTACLE, OAK RECEPTACLE LASER CUT LOGO BY PREMIER SITE FURNITURE, SEE DET., FINISH BLACK, SURFACE MOUNT
  - 8 LANDSCAPE AREA, SEE LS LEGEND FOR DG SIZE & COLOR
  - 9 INTERSECTION NODE PAVEMENT, EXPOSED AGGREGATE PAVEMENT, SOLOMON COLOR - 489 DARKER REDWOOD, OR APPROVED FINISH
  - 10 NEW LIGHTING, SEE ELECTRICAL PLANS
  - 11 STAINED CONCRETE, 4'X4' SCORE PATTERN, MEDIUM BROOM FINISH, SOLOMON COLOR - 489 DARKER REDWOOD, OR APPROVED FINISH
  - 12 STORY TELLING NODE - 16"X48", HISTORICAL PAVEMENT, MATERIAL PROVIDED BY CITY OF KINGMAN, SAND SET

**KEY MAP**



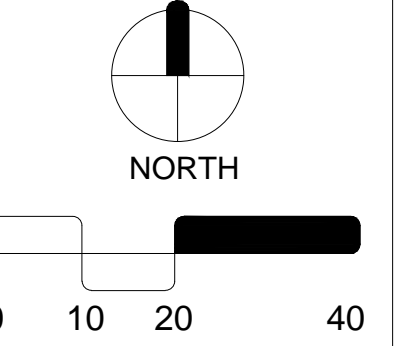
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Mesa, Arizona 85215  
Tel: 480-250-0116  
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**CITY OF KINGMAN**  
**BEALE STREET IMPROVEMENTS**  
Beale Street  
Kingman, Arizona 86401

REV.	COMMENT	DATE
100% Submittal VE		06.06.23
100% Submittal		01.18.23
90% Submittal R1		12.05.22
90% Submittal		03.04.22
60% Submittal		08.06.21
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ISSUE		DATE

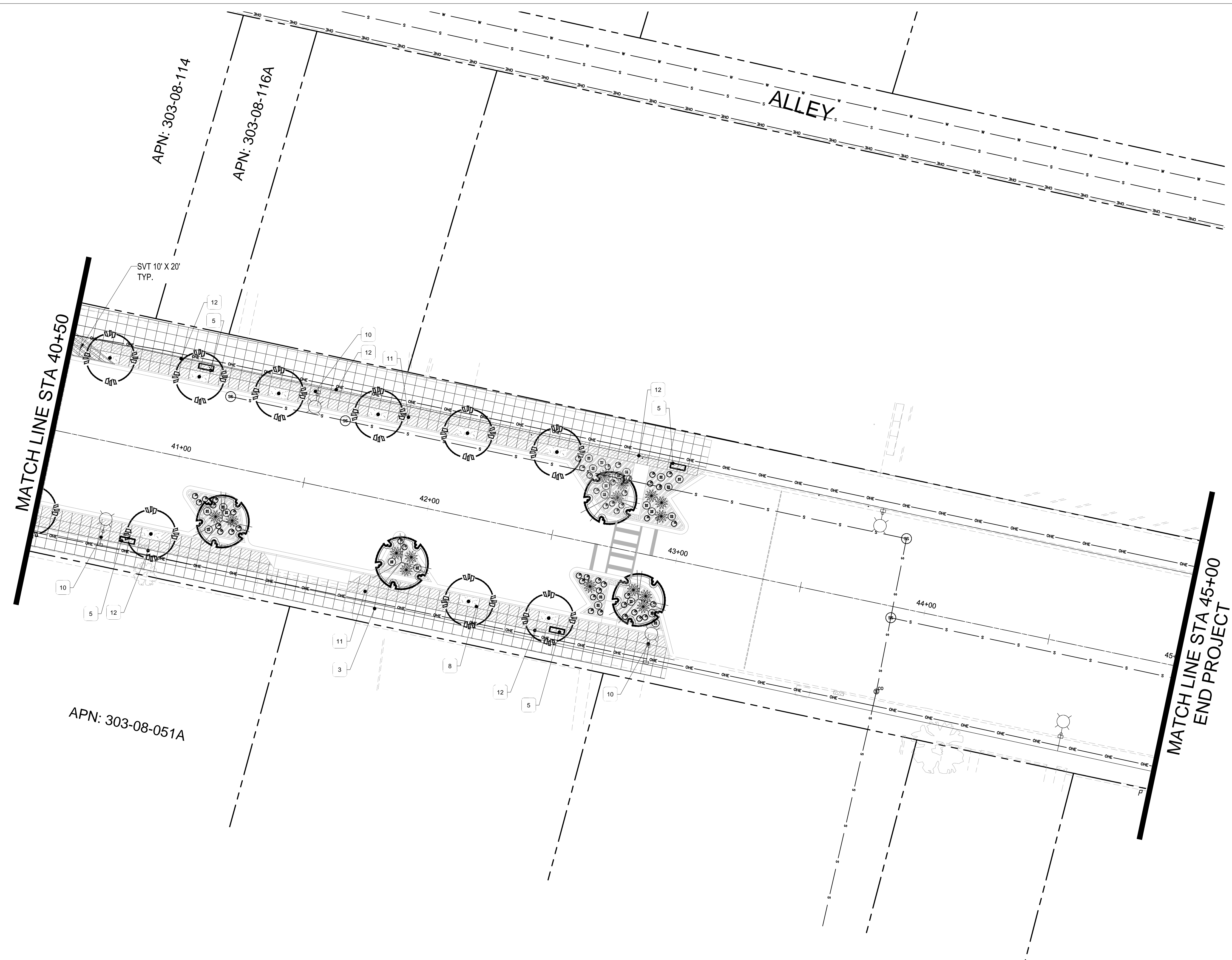
**LANDSCAPE PACKAGE**  
June 6, 2023  
DRAWN BY: BZS  
CHECK BY: JEH  
PROJ. NO.: 2020-007  
CASE NO.: 17-2597



**LANDSCAPE PLAN**  
**L1.3**  
53 of 63

**ARIZONA BLUESTAKE CENTER**  
CALL TWO WORKING DAYS BEFORE YOU DIG  
**1.800.782.5348**

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### PLANTING MATERIAL LEGEND

TREES	SIZE	NOTES	QTY
		Existing Tree to Remain - Protect in Place	3
		Existing Tree to be Removed	7
	36" Box Chinese Pistache Caliper Size: 3"	H 12'-14' W 6'-8' *ADWR	46
	36" Box Evergreen Elm 'Allee' Caliper Size: 3"	H 10'-12' W 6'-8' *ADWR	60
SHRUBS / ACCENTS			QTY
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	Decomposed Granite. 3/4" minus, Mohave Gold, 2" deep in planting areas per plan.		4,210 S.F.
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\*ADWR = Arizona Department of Water Resources Approved Low-Water Use Plant  
 \*\* DG/Rip Rap color alternates acceptable with Owner approval

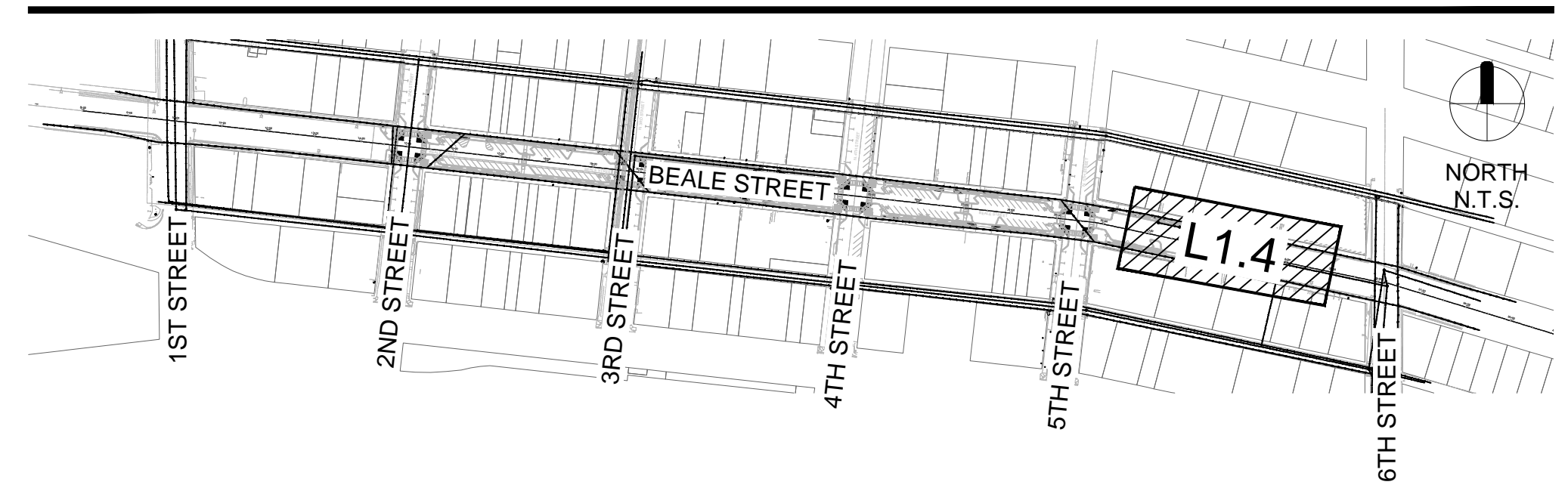
### NOTES

- SEE CIVIL PLANS FOR REMOVALS AND PROTECTIONS.

### KEYNOTE LEGEND

- KEY
- |  |  |
|--|--|
|  | EX. UTILITY FACILITY, SEE CIVIL PLANS FOR PROTECT IN PLACE OR RELOCATION INSTRUCTIONS  |
|  | EX. FIRE HYDRANT, SEE CIVIL PLANS FOR PROTECT IN PLACE OR RELOCATION INSTRUCTIONS  |
|  | PEDESTRIAN SIDEWALK ZONE - CONCRETE, 4' X 4' SCORE PATTERN, STANDARD CONCRETE, MEDIUM BROOM FINISH                                 |
|  | NEW WAYFINDING SIGN, SEE DET.  |
|  | SITE FURNISHING - BENCH, 6'-0" MAPLE BENCH LASER CUT BACKREST BY PREMIER SITE FURNITURE, SEE DET., FINISH BLACK, SURFACE MOUNT     |
|  | SITE FURNISHING - BIKE RACK, MADRAX PIERCE SERIES POST, SEE DET., FINISH BLACK, SURFACE MOUNT                                      |
|  | SITE FURNISHING - TRASH RECEPTACLE, OAK RECEPTACLE LASER CUT LOGO BY PREMIER SITE FURNITURE, SEE DET., FINISH BLACK, SURFACE MOUNT |
|  | LANDSCAPE AREA, SEE LS LEGEND FOR DG SIZE & COLOR  |
|  | INTERSECTION NODE PAVEMENT, EXPOSED AGGREGATE PAVEMENT, SOLOMON COLOR - 489 DARKER REDWOOD, OR APPROVED FINISH                     |
|  | NEW LIGHTING, SEE ELECTRICAL PLANS   |
|  | STAINED CONCRETE, 4'X4' SCORE PATTERN, MEDIUM BROOM FINISH, SOLOMON COLOR - 489 DARKER REDWOOD, OR APPROVED FINISH                 |
|  | STORY TELLING NODE - 16"X48", HISTORICAL PAVEMENT, MATERIAL PROVIDED BY CITY OF KINGMAN, SAND SET                                  |

### KEY MAP



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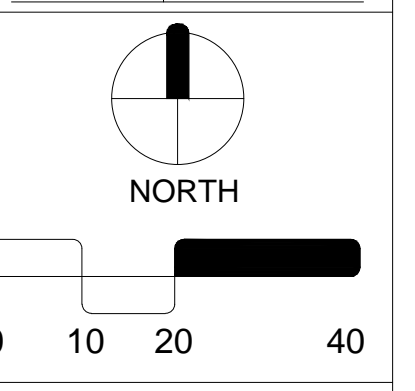
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Kingman, Arizona 86401

REV.	COMMENT	DATE
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30%	Submittal	04.12.21
	ISSUE	DATE

LANDSCAPE PACKAGE

June 6, 2023

DRAWN BY: BZS  
 CHECK BY: JEH  
 PROJ. NO.: 2020-007  
 CASE NO.: 17-2597



LANDSCAPE PLAN

L1.4

54 of 63

ARIZONA BLUESTAKE  
CENTER  
CALL TWO WORKING DAYS  
BEFORE YOU DIE  
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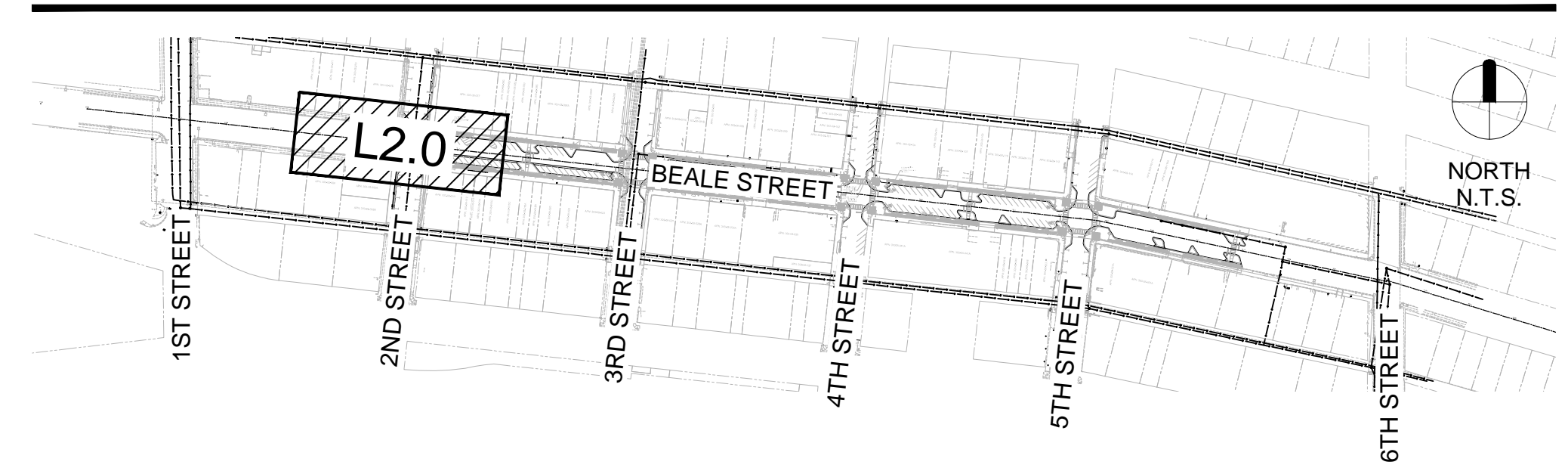


### IRRIGATION LEGEND

- SYMBOL**
- WATER METER PER LOCAL STANDARDS, NEW IRRIGATION METER - 1.0" SIZE
  - RPBFA BACKFLOW PREVENTER ASSEMBLY, FEBCO 825-Y, 1.0" SIZE PER PLAN, PROVIDE METAL ENCLOSURE.
  - CONTROLLER CONTROLLER A+B = 12 STATION HUNTER XC SOLAR, PROVIDE LEMA 1600 HE SOLENOID ACTUATOR FOR EACH VALVE, STEEL POST MOUNT AND LOCKING ENCLOSURE. PROVIDE LIGHTNING AND GROUNDING PROTECTION
  - CONTROL VALVE HUNTER SERIES ICV SIZE PER PLAN
  - FLOW SENSOR DATA INDUSTRIAL - BRASS, NTP THREADED CONNECTION, 1" SIZE.
  - GATE VALVE NIBCO MODEL# T-113, SIZE PER LINE BRONZE MATERIAL
  - DRIP VALVE HUNTER ICV SERIES WITH 150 MESH WYE-STRAINER SIZE PER PLAN
  - FLUSH CAP SPEARS FLUSH CAP
  - PRESSURE REG. SENNIGER 30 PSI - LOCATE IN SEPARATE BOXES MEDIUM FLOW 2-20GPM - 30 PSI (100 MESH)
  - EMITTER - SP BOWSMITH 1.0 GPH (1 PER PLANT)
  - EMITTER - MP BOWSMITH 1.0 GPH 6 PORT (2 PER TREE) GROUPS OF SHRUBS WITHIN 6'.
  - SERVICE POINT CONNECT TO EXISTING POTABLE WATER SERVICE

- PIPE LEGEND**
- MAINLINE - SIZE PER PLAN PVC SCH. 40
  - TREE LATERAL PVC SCH. 40 - SOLVENT WELD
  - SHRUB LATERAL PVC SCH. 40 - SOLVENT WELD
  - WIRE SLEEVE PVC SCH. 40 - MINIMUM 1 1/2" SIZE
  - PIPE SLEEVE PVC SCH. 40 - 2 X PIPE SIZE MINIMUM

### KEY MAP



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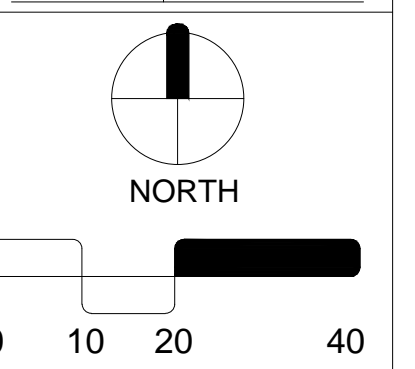
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LANDSCAPE PACKAGE

June 6, 2023

DRAWN BY:	BZS
CHECK BY:	JEH
PROJ. NO.:	2020-007
CASE NO.:	17-2597



IRRIGATION PLAN

L2.0

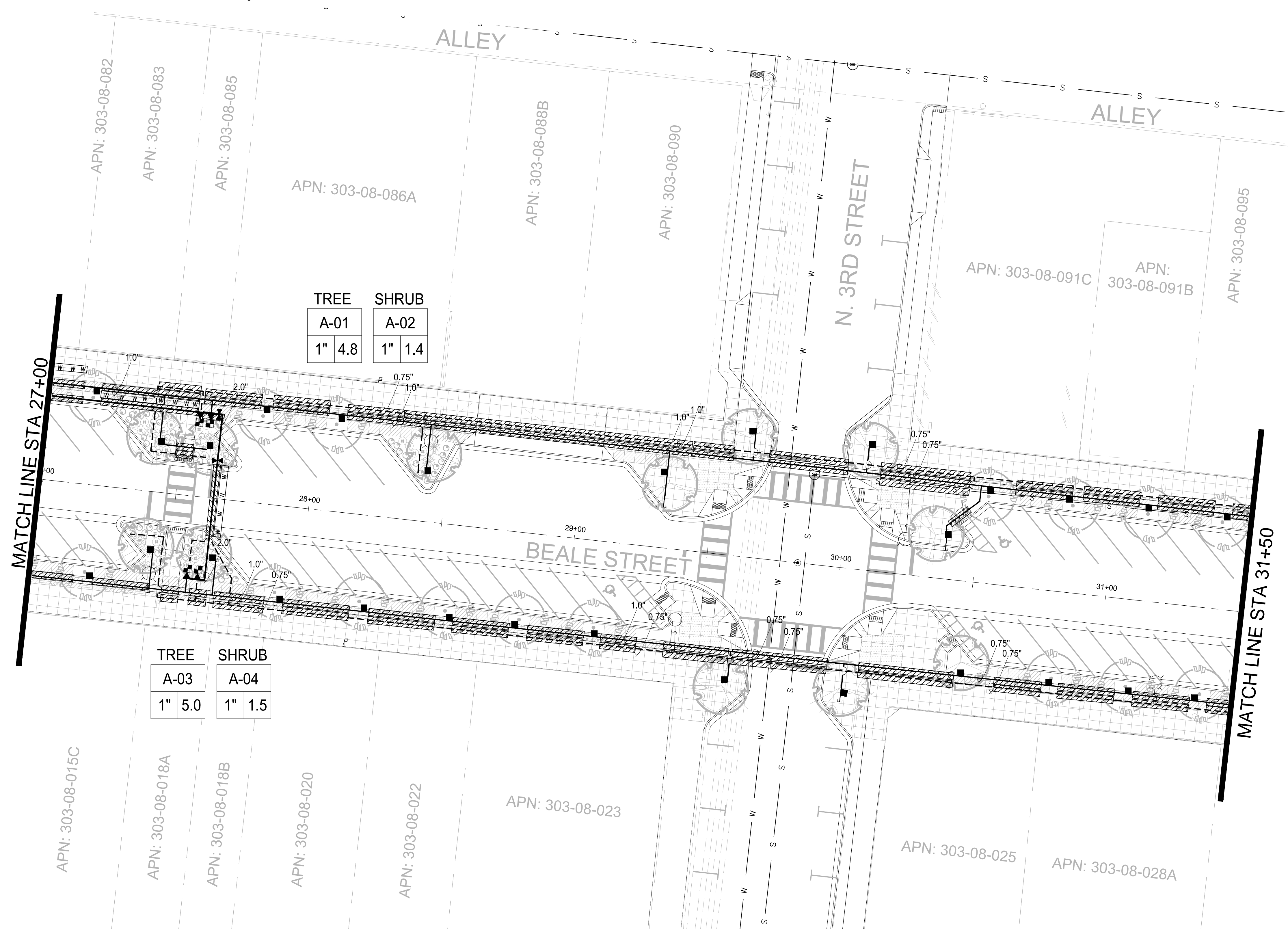
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ARIZONA BLUESTAKE  
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TREE		SHRUB	
A-01	A-02	A-01	A-02
1"	4.8	1"	1.4

TREE		SHRUB	
A-03	A-04	A-03	A-04
1"	5.0	1"	1.5

### IRRIGATION LEGEND

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  - CONTROL VALVE HUNTER SERIES ICV SIZE PER PLAN
  - FLOW SENSOR DATA INDUSTRIAL - BRASS, NTP THREADED CONNECTION. 1" SIZE.
  - GATE VALVE NIBCO MODEL# T-113, SIZE PER LINE BRONZE MATERIAL
  - DRIP VALVE HUNTER ICV SERIES WITH 150 MESH WYE-STRAINER SIZE PER PLAN
  - FLUSH CAP SPEARS FLUSH CAP
  - PRESSURE REG. 1/2" FLUSH VALVE SENNIGER 30 PSI - LOCATE IN SEPARATE BOXES MEDIUM FLOW 2-20GPM - 30 PSI (100 MESH)
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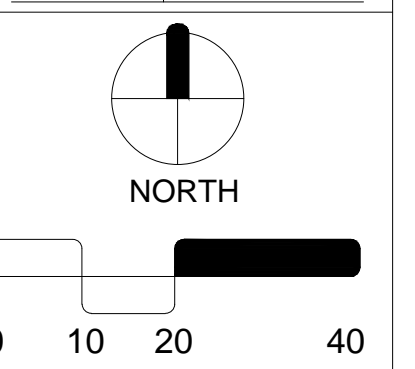
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LANDSCAPE PACKAGE

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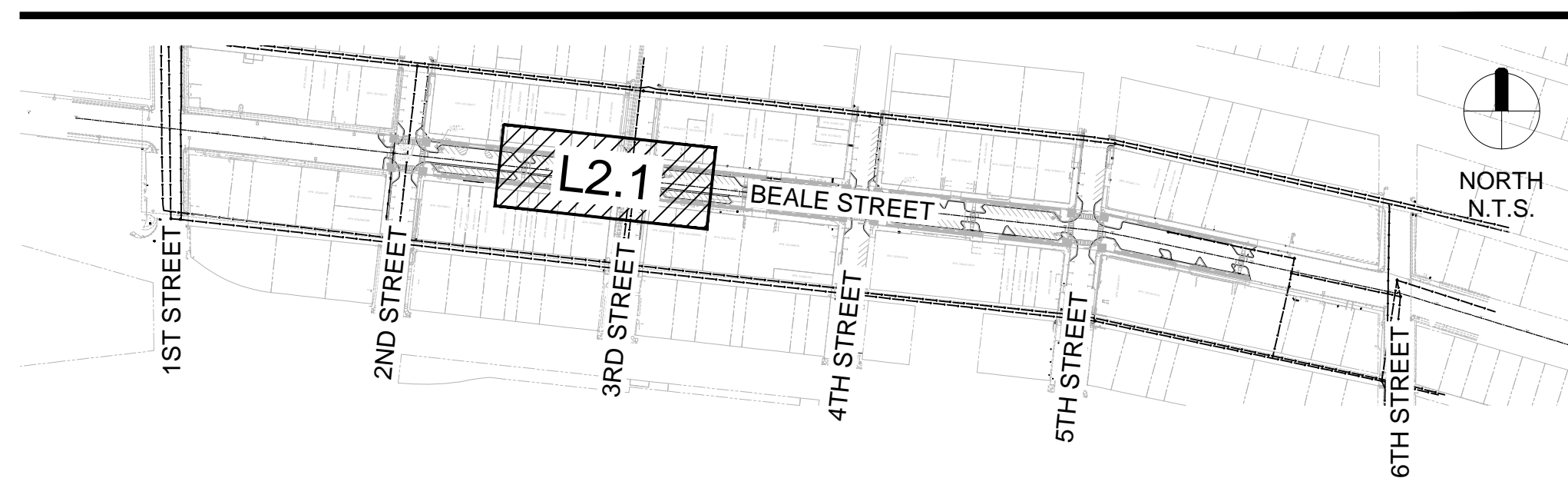


IRRIGATION PLAN

L2.1

56 of 63

### KEY MAP



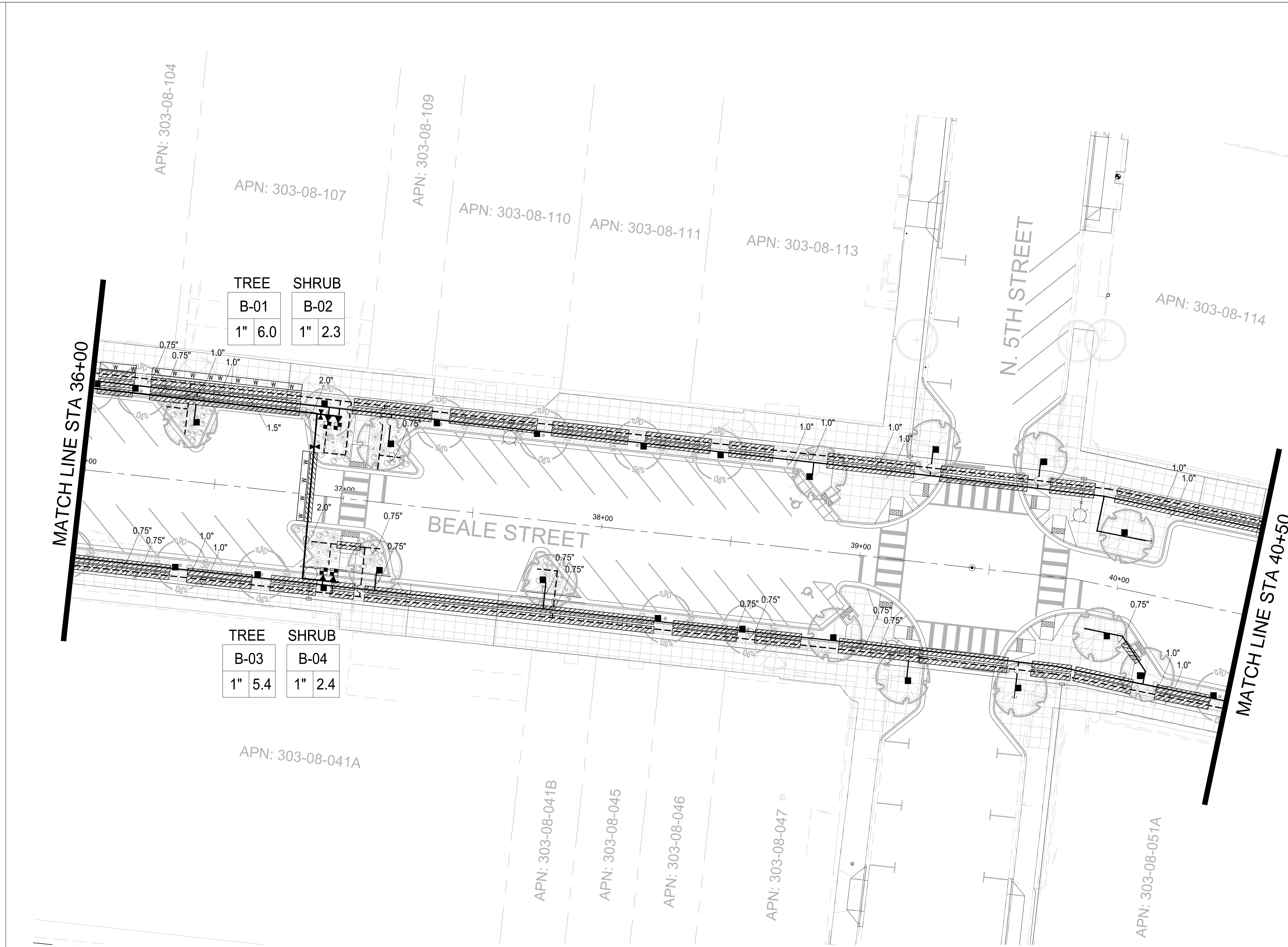
ARIZONA BLUESTAKE  
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TREE	SHRUB
B-01	B-02
1" 6.0	1" 2.3

TREE	SHRUB
B-03	B-04
1" 5.4	1" 2.4

### IRRIGATION LEGEND

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  - GATE VALVE NIBCO MODEL# T-113, SIZE PER LINE BRONZE MATERIAL
  - DRAIN VALVE HUNTER ICV SERIES WITH 150 MESH WYE-STRAINER SIZE PER PLAN
  - FLUSH CAP SPEARS FLUSH CAP
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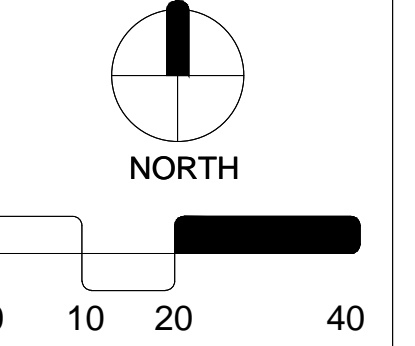
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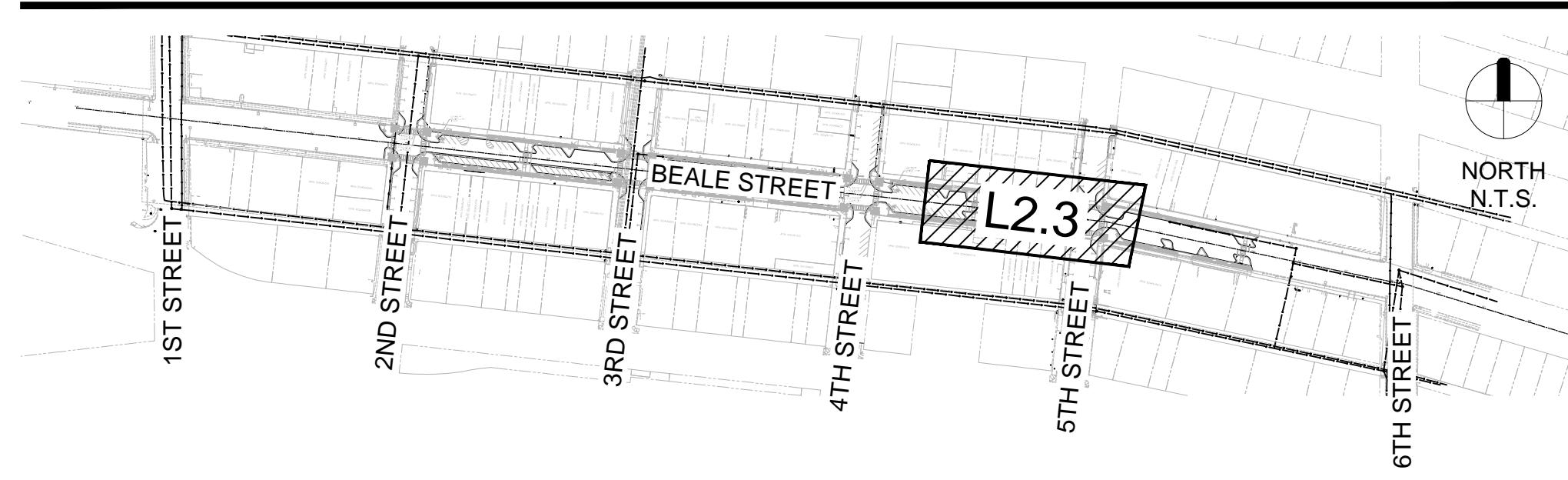


IRRIGATION PLAN

# L2.3

58 of 63

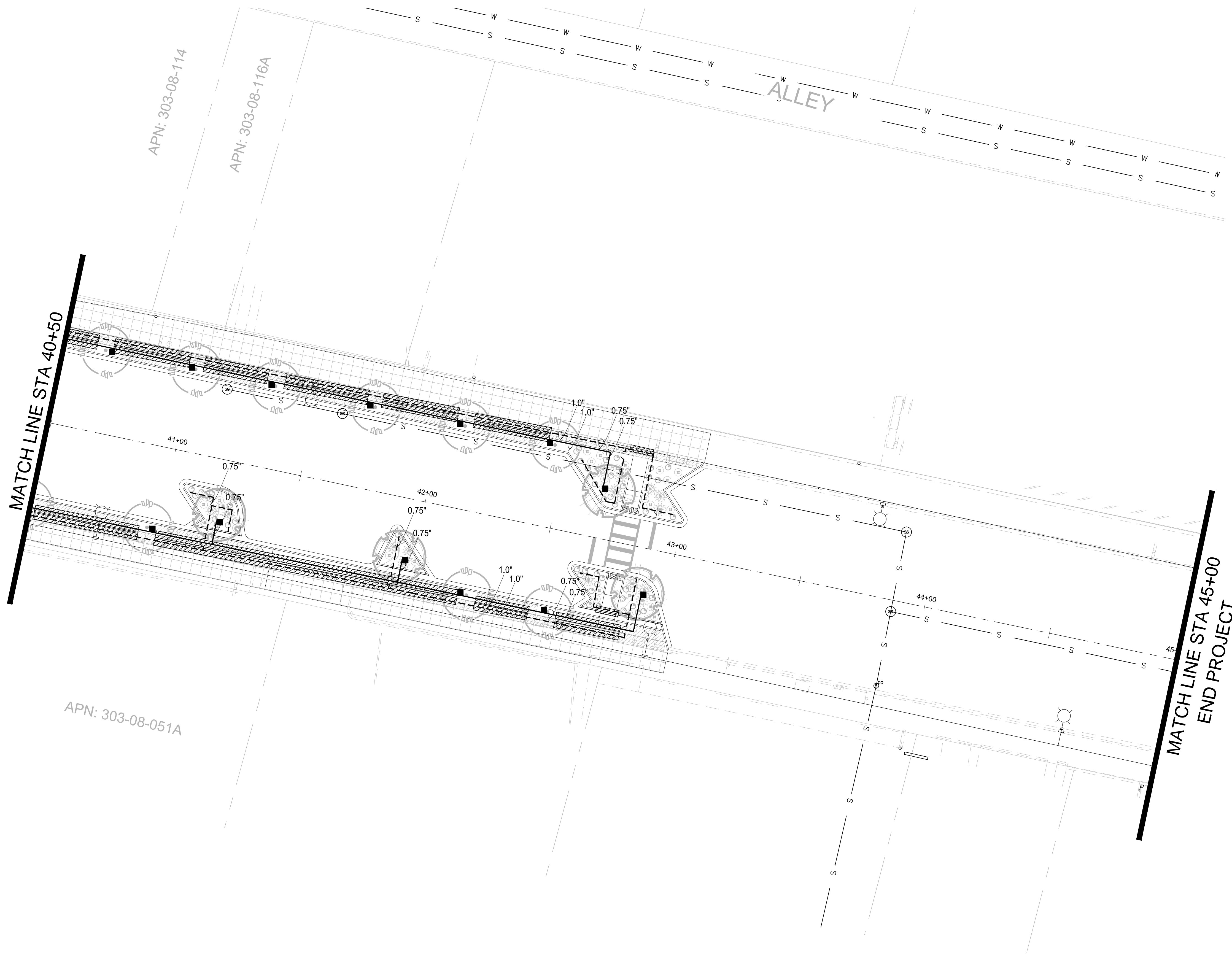
### KEY MAP



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- SHRUB LATERAL PVC SCH. 40 - SOLVENT WELD
- WIRE SLEEVE PVC SCH. 40 - MINIMUM 1 1/2" SIZE
- PIPE SLEEVE PVC SCH. 40 - 2 X PIPE SIZE MINIMUM

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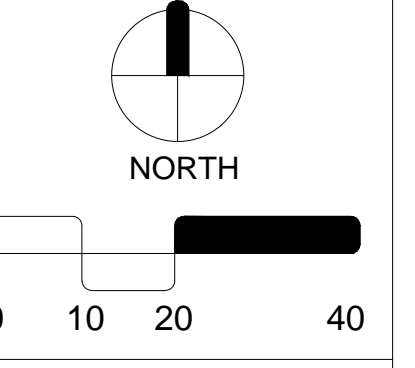
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**LANDSCAPE PACKAGE**

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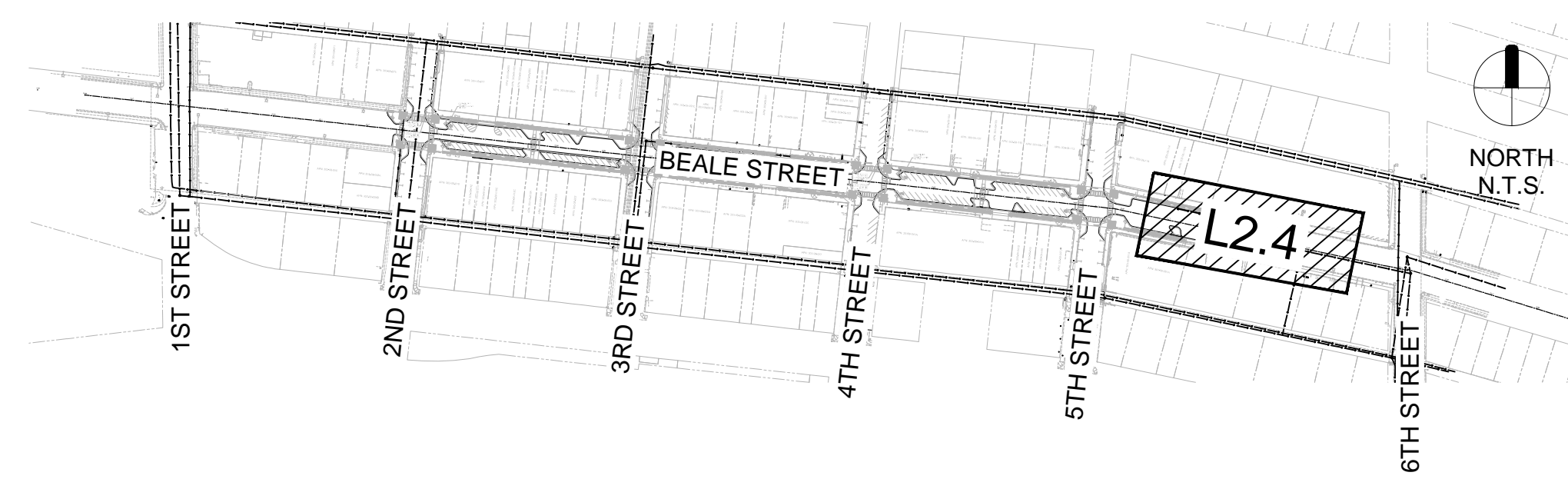


### IRRIGATION PLAN

L2.4

59 of 63

### KEY MAP

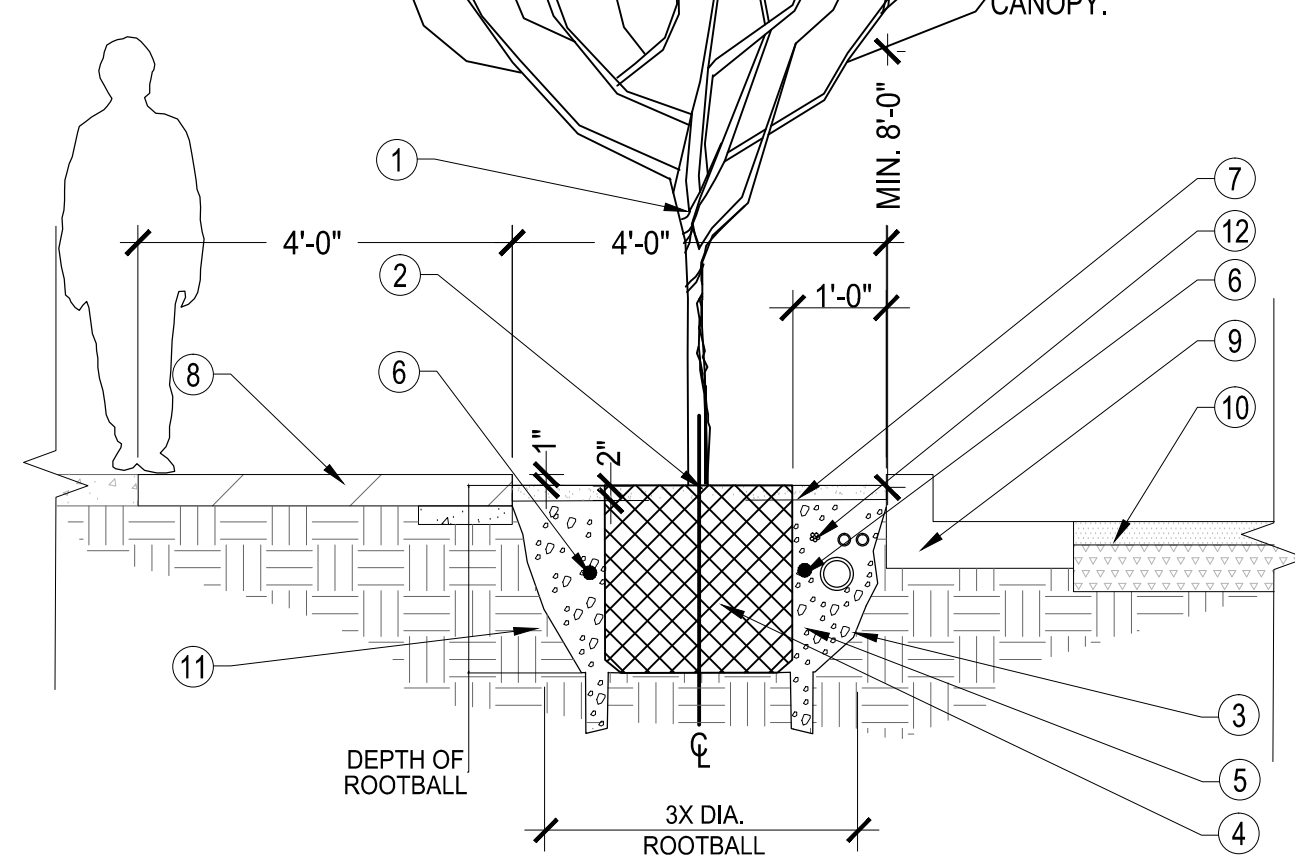


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**FERTILIZER TABLET SCHEDULE**

AGRIFORM FERTILIZER TABLETS OR EQUAL. PLACE TABLETS DOWN ALONG PLANT ROOTBALL SIDE 3 PER 15 GAL., 4 PER 24" BOX OR LARGER



**NOTES:**

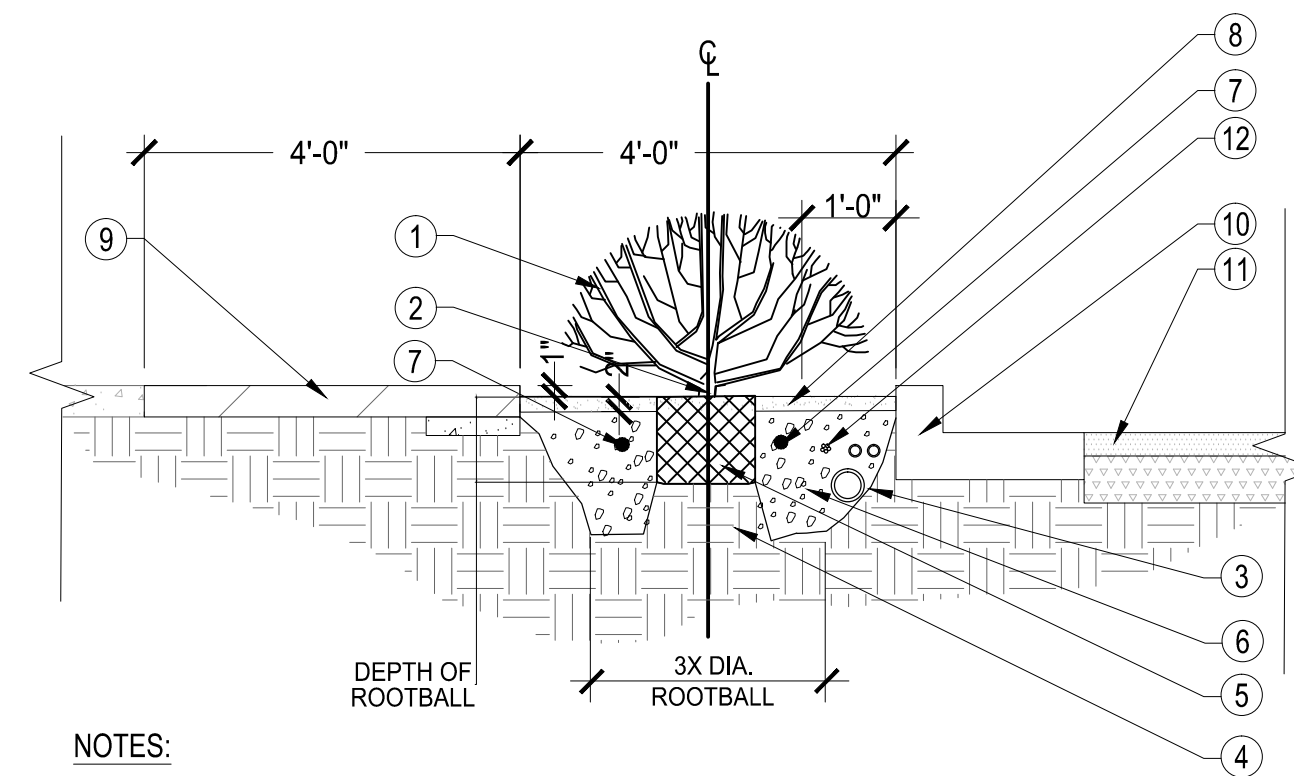
1. PROVIDE ADEQUATE DRAINAGE.
2. TRIM AND MAINTAIN TO PROVIDE A MINIMUM 8'-0" CLEARANCE FROM ADJACENT PATH OR PAVEMENT TO TREE CANOPY.
3. TREE. SEE LANDSCAPE LEGEND.
4. TOP OF ROOTBALL FLUSH OR SLIGHTLY ABOVE FINISH GRADE.
5. WALLS OF UNDISTURBED SOIL SHOULD BE SLOPED WITH ROUGH EDGES. PLANTING PIT TO BE AS DEEP AS ROOTS.
6. FREE OR CUT CIRCLING ROOTS (UNLESS PLANTS ARE KNOWN TO HAVE SENSITIVE ROOTS HANDLE WITH MINIMAL DISTURBANCE).
7. BACKFILL: NATIVE SOIL IF NONE DESCRIBED. REMOVE ALL ROCK 1" OR GREATER FROM BACKFILL.
8. FERTILIZER TABLET. REFER TO FERTILIZER TABLET SCHEDULE.
9. INERT DECOMPOSED GRANITE (DG). SEE LANDSCAPE LEGEND.
10. STAINED CONCRETE SIDEWALK PER PLAN.
11. CURB AND GUTTER. SEE CIVIL PLANS.
12. ROAD ASPHALT SURFACE, SEE CIVIL PLANS.
13. NATIVE UNDISTURBED SOIL OR COMPACT FILL TO 85% STANDARD PROCTOR DENSITY.
14. IRRIGATION PIPES & WIRES PLACEMENT, SEE TRENCHING DETAIL.

**1 TREE PLANTING**

SCALE: N.T.S.

**FERTILIZER TABLET SCHEDULE**

AGRIFORM FERTILIZER TABLETS OR EQUAL. PLACE TABLETS DOWN ALONG PLANT ROOTBALL SIDE 1 PER 1 GAL., 2 PER 5 GAL.,

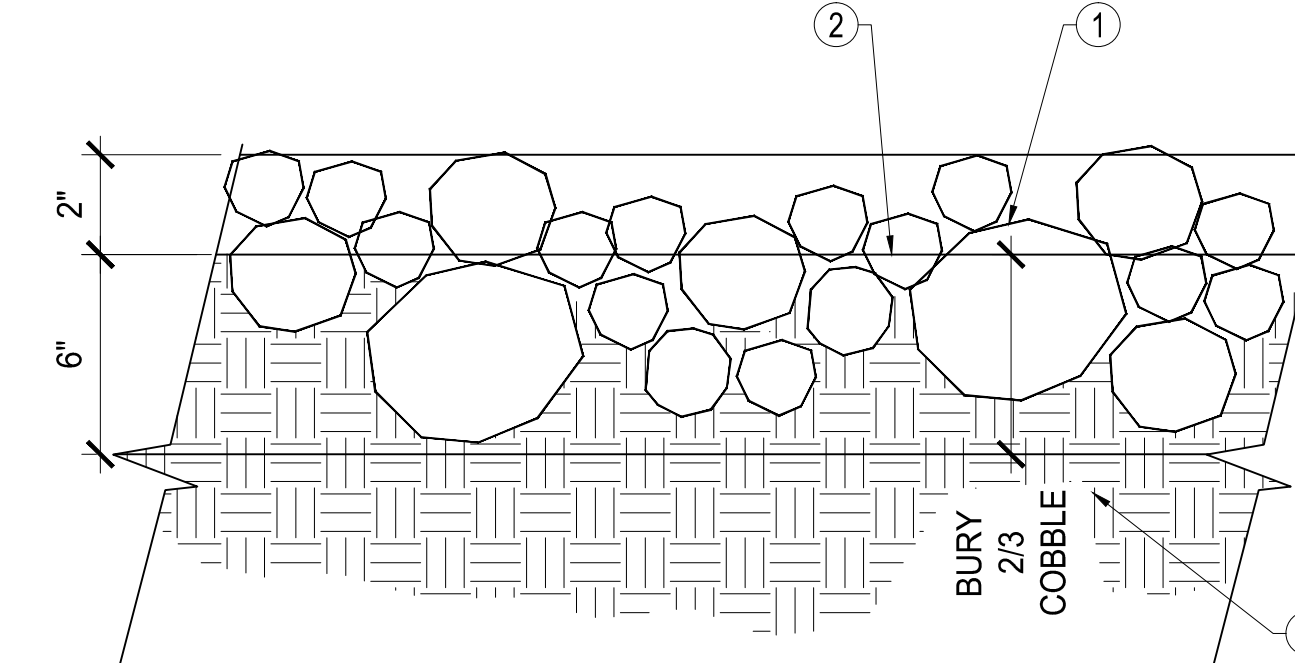


**NOTES:**

1. PROVIDE ADEQUATE DRAINAGE.

**2 SHRUB, GROUND COVER & ACCENT PLANTING - CONTAINER**

SCALE: N.T.S.

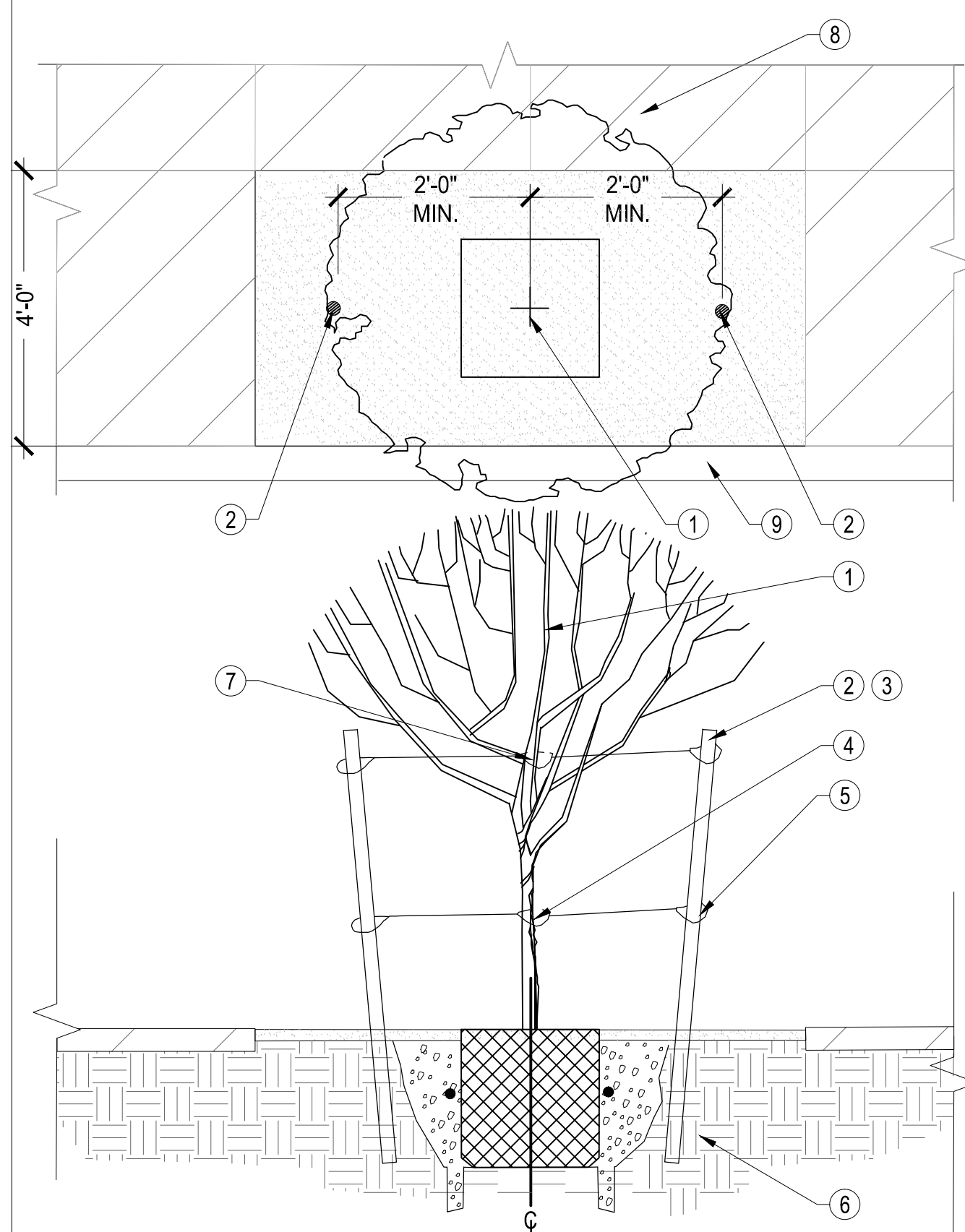


**NOTES:**

1. COORDINATE FINAL GRADES WITH LANDSCAPE ARCHITECT AND PER PLANS.
2. BURY 2/3 COBBLE. ALLOW NO MORE THAN 4" EXPOSED ABOVE GRADE.
3. WET COBBLE AFTER INSTALL TO REMOVE DUST AND SETTLE ROCK.
4. REAPPLY COBBLE TO AREAS THAT SETTLE.
5. APPLY POST EMERGENT WEED CONTROL AFTER LANDSCAPE INSTALL COMPLETED.

**3 1" - 4" COBBLE ROCK INSTALLATION**

SCALE: N.T.S.



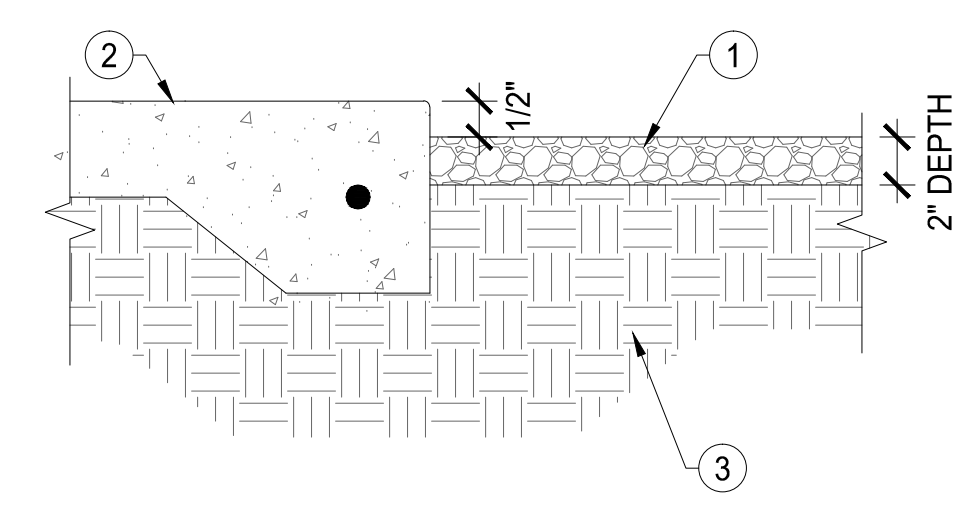
1. TREE PLANTING, SEE DETAIL.
2. 2" DIA. LODGEPOLE OR 2" SQ. STAKES DRIVEN VERTICALLY OR SLIGHT ANGLE IN UNDISTURBED SOIL. 8' TALL FOR #15 GAL. SIZE, 10' TALL FOR 24" BOX OR LARGER NOTCH EACH STAKE WITH 3/4" CUT TO SECURE WIRE AT.
3. PLACE OR CUT STAKES OFF BELOW THE CANOPY TO PREVENT DAMAGE TO BRANCHES.
4. PLACE HOSE AND WIRE 6" ABOVE STRESS POINT OF TREE. NOTCH BACKSIDE OF POLY. USE 1/2" I.D. RUBBER HOSE 12"-15" LONG MIN. OR NYLON STRAP MATERIAL.
5. #12 PLASTIC GUY WIRE WRAP TWICE AROUND STAKE AND SECURE.
6. NATIVE UNDISTURBED SOIL OR COMPACT FILL TO 85% STANDARD PROCTOR DENSITY.
7. PLACE HOSE AND WIRE 12" ABOVE SCAFFOLDING BRANCH. USE 1/2" I.D. RUBBER HOSE 12"-15" LONG MIN. OR NYLON STRAP MATERIAL.
8. STAINED CONCRETE SIDEWALK PER PLAN.
9. CURB AND GUTTER, SEE CIVIL PLANS.

**NOTES:**

1. DO NOT DISTURB IRRIGATION SYSTEM AND OTHER UTILITY WIRE/PIPE DURING STAKING.

**4 TREE STAKING DETAIL - 2 TIES**

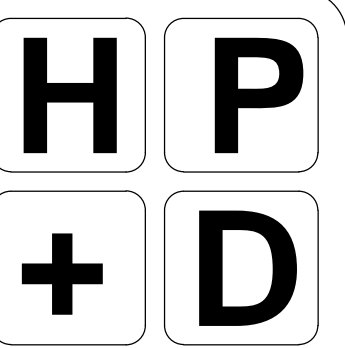
SCALE: N.T.S.



1. DECOMPOSED GRANITE PER PLANTING LEGEND.
2. CONCRETE CURB OR WALK.
3. ENSURE PLANTING AREAS ARE FREE OF DEBRIS AND WEEDS. COMPACT TO 85% PROCTOR DENSITY. PRE-TREAT FINISH GRADED LANDSCAPE AREAS WITH PRE-EMERGENT CHEMICAL APPLICATION.

**5 CONCRETE / GRANITE TRANSITION**

SCALE: N.T.S.



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**CITY OF KINGMAN  
BEALE STREET IMPROVEMENTS**

Beale Street  
Kingman, Arizona 86401

REV.	COMMENT	DATE

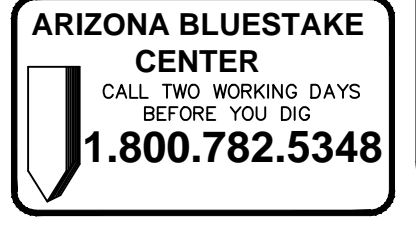
REV.	COMMENT	DATE

**LANDSCAPE PACKAGE**

June 6, 2023  
DRAWN BY: BZS  
CHECK BY: JEH  
PROJ. NO.: 2020-007  
CASE NO.: 17-2597

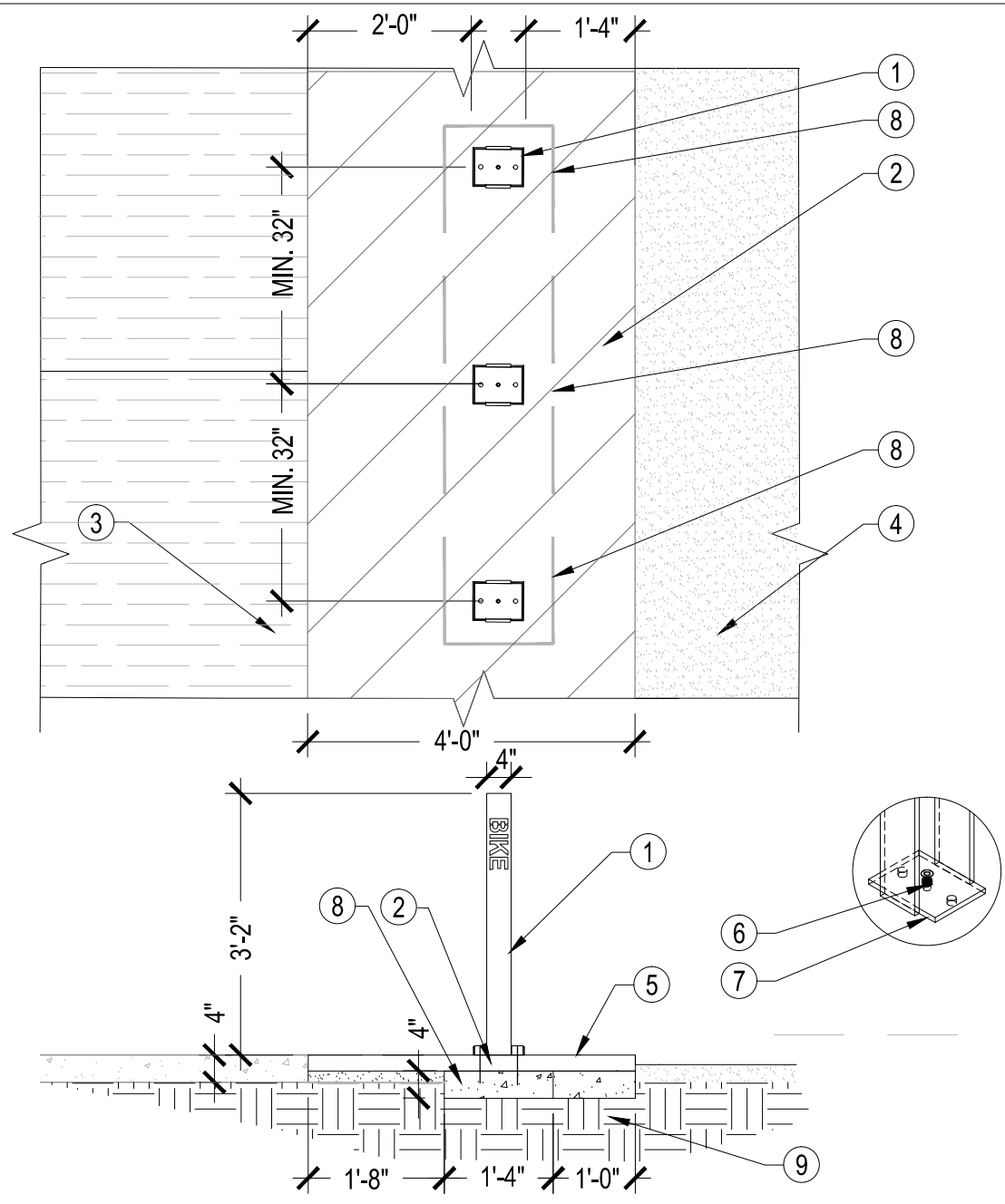
**LANDSCAPE DETAILS**

**L3.0**  
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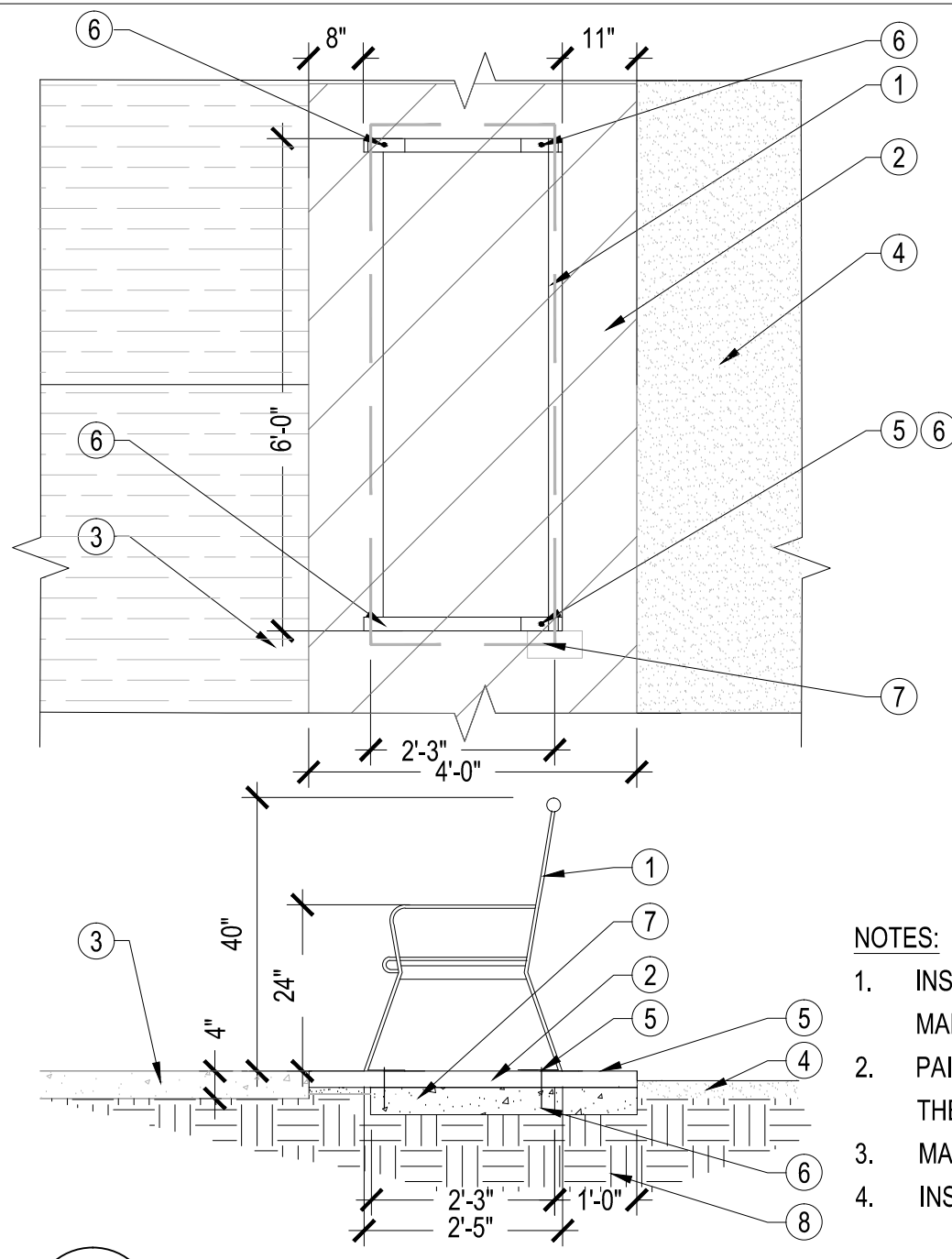


- ① MADRAX PIERCE BIKE RACK, MODEL # PBP-2-SF-P, POWDER COATED BLACK COLOR, LOGO TBD.
- ② STAINED CONCRETE SIDEWALK, SEE DETAIL.
- ③ CONCRETE SIDEWALK, SEE DETAIL.
- ④ LANDSCAPE DG AREA.
- ⑤ FINISH GRADE.
- ⑥ THREADED HOLE TO SECURE COVER.
- ⑦ 3/8" THICK MOUNTING PLATE.
- ⑧ CONCRETE MOUNTING SLAB.
- ⑨ COMPACTED SUB-GRADE PER MAG SECTION 301 & GEOTECH REPORT.

- NOTES:**
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
  2. PAINT ALL THE ASSEMBLY TO MATCH BENCH FINISH COLOR. ALL THE ASSEMBLY SHALL BE VANDAL RESISTANT.
  3. MATCH THE HOLE PATTERN FOR MOUNTING DURING CONSTRUCTION.
  4. INSTALL LEVEL WITH FINISH GRADE FOR BIKE RACK INSTALLATION.
  5. THREE BIKE RACK FOR EACH LOCATION.

**1 BIKE RACK - INSTALLATION**

SCALE: N.T.S.

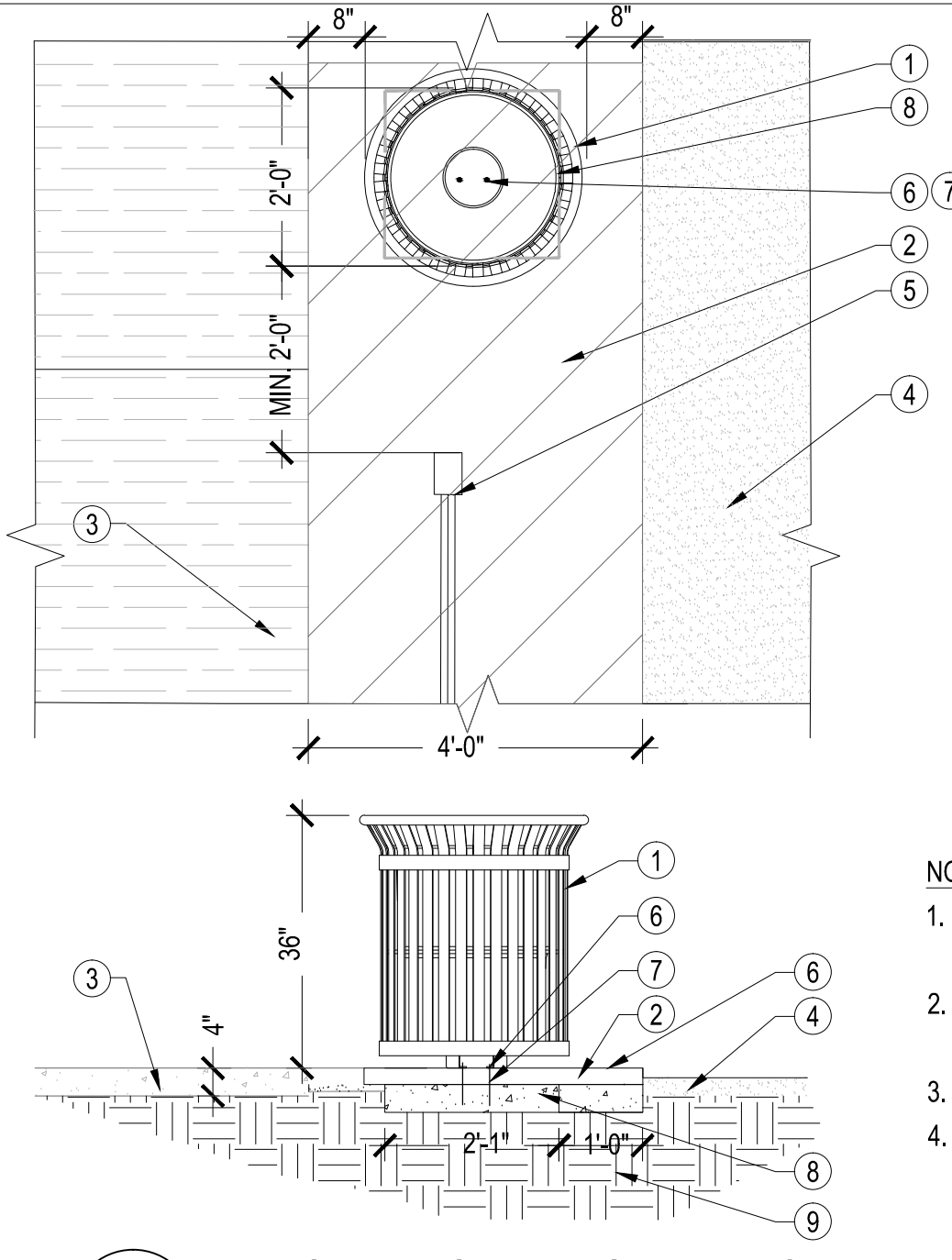


- ① PREMIER MAPLE BENCH MMR00RB, WITH ROUTE 66 LOGO, FACING STORES. MATCH THE LOGO FROM THE IMAGE OR CONTACT THE CITY FOR THE LOGO INFO, POWDER COATED BLACK COLOR.
- ② STAINED CONCRETE SIDEWALK.
- ③ CONCRETE SIDEWALK.
- ④ LANDSCAPE DG AREA.
- ⑤ FINISH GRADE.
- ⑥ TOTAL 4 X WEDGE ANCHERS - 5/16" X 4 3/4", 5/16" FLAT WASHERS AND 5/16" HEX NUTS.
- ⑦ CONCRETE MOUNTING SLAB.
- ⑧ COMPACTED SUB-GRADE PER MAG SECTION 301 & GEOTECH REPORT.

- NOTES:**
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
  2. PAINT ALL THE ASSEMBLY TO MATCH BENCH FINISH COLOR. ALL THE ASSEMBLY SHALL BE VANDAL RESISTANT.
  3. MATCH THE HOLE PATTERN DURING CONSTRUCTION.
  4. INSTALL LEVEL WITH FINISH GRADE FOR BENCH INSTALLATION.

**2 BENCH - INSTALLATION**

SCALE: N.T.S.

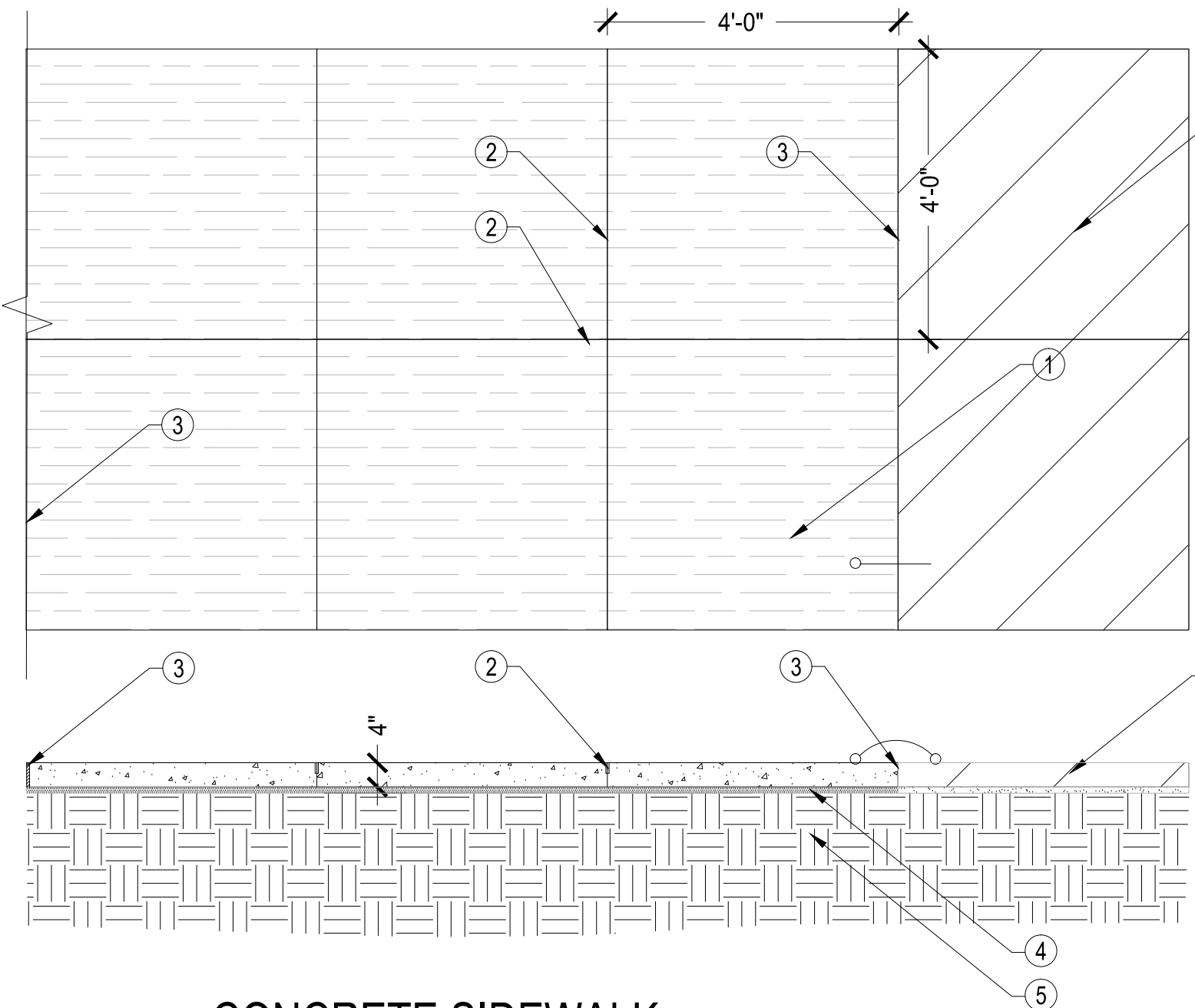


- ① PREMIER OAK RECEPTACLE 0132 WITH LID WITH ROUTE 66 LOGO, FACING STORES. MATCH THE LOGO FROM THE IMAGE OR CONTACT THE CITY FOR THE LOGO INFO. PROVIDE BAG AFTER INSTALLATION. POWDER COATED BLACK COLOR.
- ② STAINED CONCRETE SIDEWALK.
- ③ CONCRETE SIDEWALK.
- ④ LANDSCAPE DG AREA.
- ⑤ WAYFINDING SIGN, SEE DETAIL.
- ⑥ FINISH GRADE.
- ⑦ TOTAL TWO 3/8" X 4" WEDGE ANCHORS, NUTS, AND WASHERS.
- ⑧ CONCRETE MOUNTING SLAB.
- ⑨ COMPACTED SUB-GRADE PER MAG SECTION 301 & GEOTECH REPORT.

- NOTES:**
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
  2. PAINT ALL THE ASSEMBLY TO MATCH TRASH RECEPTACLE FINISH COLOR. ALL THE ASSEMBLY SHALL BE VANDAL RESISTANT.
  3. MATCH THE HOLE PATTERN FOR MOUNTING DURING CONSTRUCTION.
  4. INSTALL LEVEL WITH FINISH GRADE FOR THE INSTALLATION.

**3 TRASH RECEPTACLE - INSTALLATION**

SCALE: N.T.S.

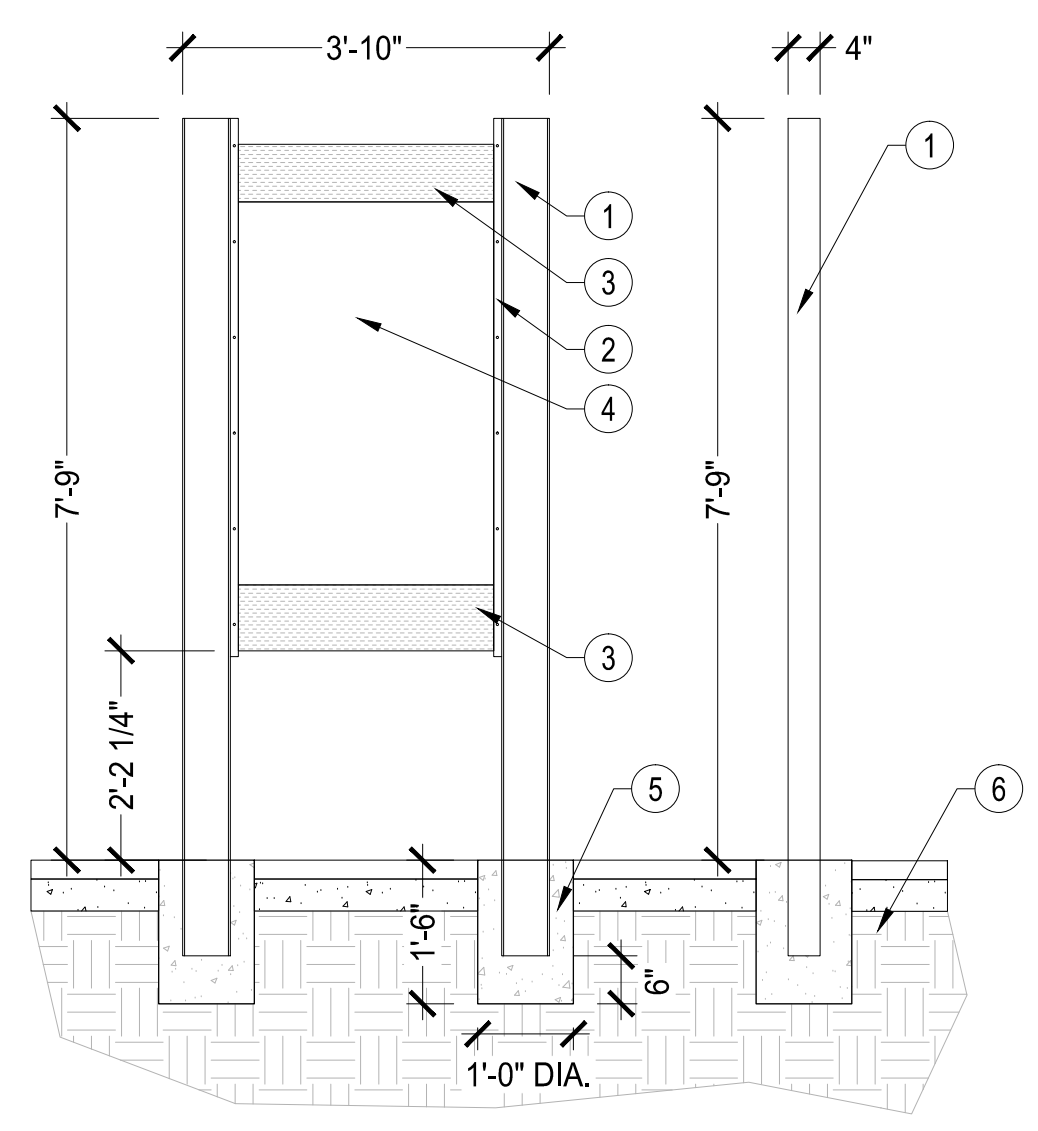


- ① CONCRETE SIDEWALK 4" TH. 2500 PSI, MEDIUM BROOM FINISH, PER MAG #230, REFER TO CIVIL.
- ② CONTROL JOINT, PER MAG STD.
- ③ EXPANSION JOINT PER MAG STD, REQUIRED AT WALLS.
- ④ ABC, PER CIVIL.
- ⑤ COMPACTED SUB-GRADE. PER CIVIL.
- ⑥ STAINED CONCRETE SIDEWALK.

- NOTES:**
1. PROVIDE LEVEL SURFACE FOR FINISH GRADE.
  2. MEDIUM BROOM FINISH FOR CONCRETE SURFACE, PERPENDICULAR TO CURB LINE.
  3. INSTALL CONTROL JOINTS AS SHOWN ON PLANS, 4X 4' SCORE PATTERN.

**4 CONCRETE SIDEWALK**

SCALE: N.T.S.

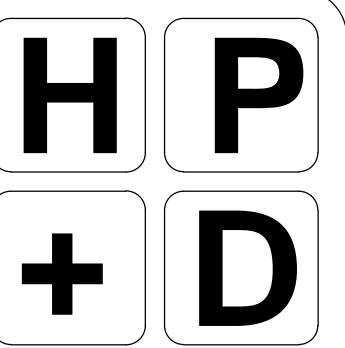


- ① MILL FINISH STEEL I-BEAM 6" x 4", 3 GAUGE
- ② ANGLE IRON, 3 GAUGE, PROVIDE TO FRONT AND REAR SIDES OF SIGN
- ③ MCNICHOLS PERFORATED METAL, 20 GAUGE, ALUMINUM 1/8" x 3/4" SLOTTED PATTERN, MECHANICALLY FASTENED BETWEEN ANGLE IRON, PROVIDE ON BOTH SIDES OF GRAPHIC PANELS
- ④ 1/4" GRAPHIC PANELS MECHANICALLY FASTENED BETWEEN PERFORATED SCREENS WITH NON-CORROSIVE TAMPER RESISTANT HARDWARE (PANEL ON EACH SIDE OF SCREEN), COORDINATE WITH CITY OF KINGMAN FOR DATA ON PANELS.
- ⑤ CONCRETE FOOTING 2000 PSI @ 28 DAYS OR PER CIVIL / STRUCTURAL
- ⑥ COMPACT SUBGRADE, 95% MIN. PROCTOR OR PER CIVIL / STRUCTURAL

- NOTES:**
1. APPLY TWO COATS OF ENAMEL PAINT TO I-BEAM POSTS AND ANGLE IRON, DUNN EDWARDS DEEP RESERVOIR (DE5874).
  2. LOCATE THE SIGN AT LEAST 2 FEET OFF TRASH CAN.
  3. GRAPHIC PANEL INFORMATION TO BE PROVIDED BY THE CITY OF KINGMAN.
  4. PROVIDE SHOP DRAWINGS FOR CITY REVIEW OF FOOTINGS AND FRAME ASSEMBLY.

**5 WAYFINDING SIGN**

SCALE: N.T.S.



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**CITY OF KINGMAN  
BEALE STREET IMPROVEMENTS**

Beale Street  
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REV.	COMMENT	DATE

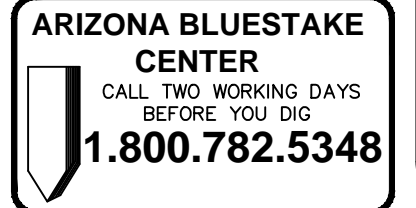
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100% Submittal	01.18.23
90% Submittal R1	12.05.22
90% Submittal	03.04.22
60% Submittal	08.06.21
30% Submittal	04.12.21
ISSUE	DATE

**LANDSCAPE PACKAGE**

June 6, 2023  
DRAWN BY: BZS  
CHECK BY: JEH  
PROJ. NO.: 2020-007  
CASE NO.: 17-2597

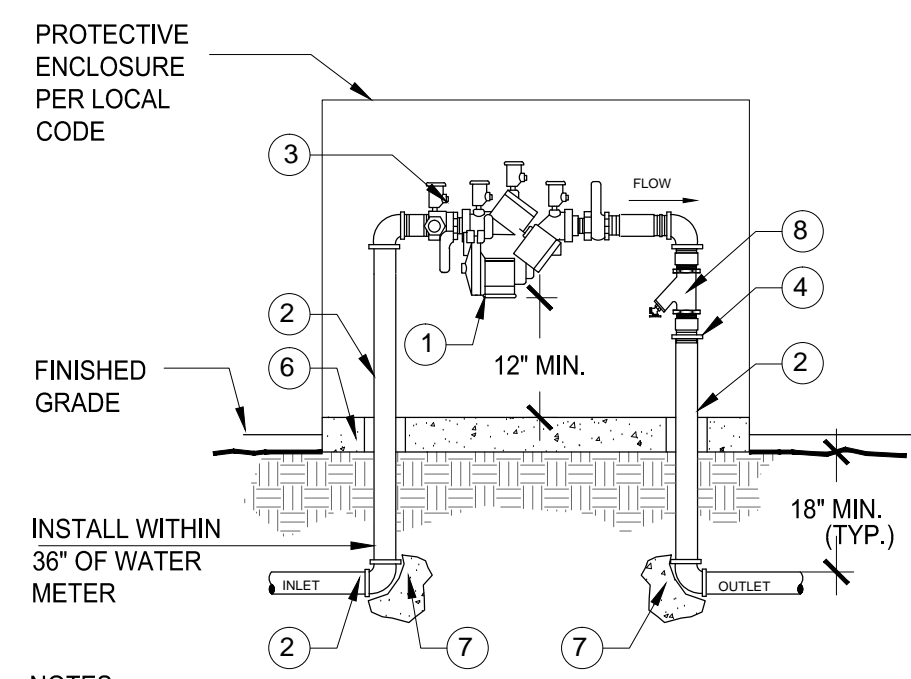
**HARDSCAPE DETAILS**

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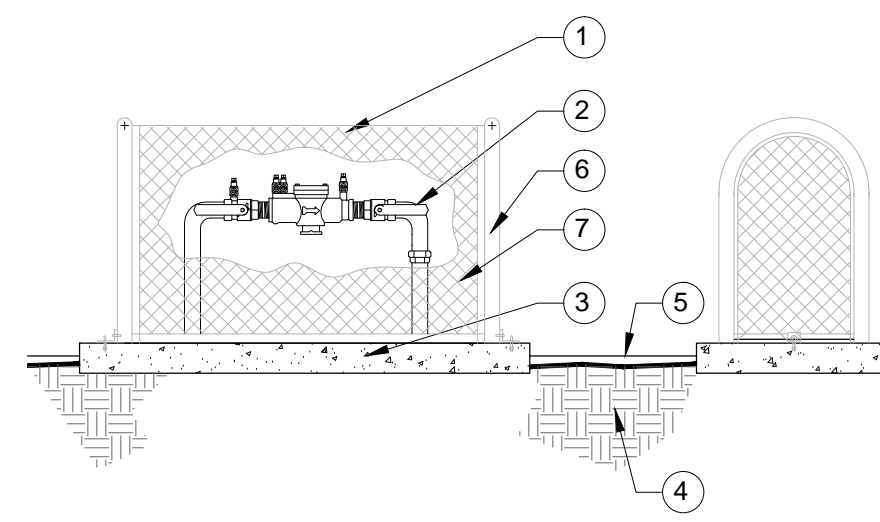
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- 1 APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY, BALL VALVES INCLUDED.
- 2 PIPING SHALL BE TYPE "K" HARD COPPER PIPE AND FITTINGS (3/4" THRU 1-1/2") USING LEAD-FREE SOLDER.
- 3 BRASS PLUGS ARE REQUIRED ON ALL TEST COCKS.
- 4 BRASS OR COPPER UNION (INSTALL ON DISCHARGE SIDE).
- 5 HEIGHT REQUIREMENTS FOR ASSEMBLIES (12" MIN., 24" MAX.).
- 6 4" CONCRETE PAD, CLASS B
- 7 THRUST BLOCKS FOR 2" OR GREATER.
- 8 BRASS Y-STRAINER, (30 MESH).

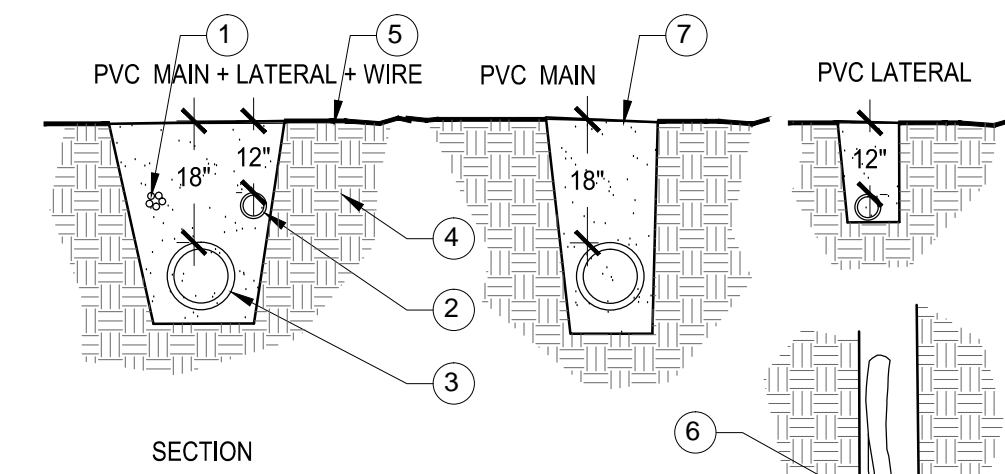
NOTES:  
 1. INSTALL PER LOCAL CODES.  
 2. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, FEES, INSPECTIONS PER GOVERNING CODE.  
 3. ADAPT INLET/OUTLET TO MAIN AS REQ'D.  
 4. ASSEMBLY SHALL BE INSTALLED LEVEL AND NOT IN A FLOOD PLAIN.  
 5. ASSEMBLY SHALL BE TESTED PRIOR TO BEING ACCEPTED.

6. ASSEMBLY SHALL NOT BE INSTALLED ANY CLOSER THAN 18" FROM A WALL OR OBSTRUCTION, (IF TEST COCKS FACE THE WALL, OR 12" FROM A WALL IF TEST COCKS FACE AWAY).  
 7. CONCRETE SUPPORT PAD SHALL BE A MINIMUM OF 4" LARGER IN ALL DIMENSIONS THAN ENCLOSURE.  
 8. FINISHED GRADE UNDERNEATH ASSEMBLY SHALL BE AT 95% COMPACTION.  
 9. CONCRETE PAD PENETRATIONS TO BE 1" LARGER THAN PIPE SIZE.



- 1 METAL BACKFLOW ENCLOSURE, PAINT PER OWNER DIRECTION.
- 2 BACKFLOW PREVENTER.
- 3 4" CONCRETE PAD, CLASS B (2000 PSI), EXTEND 4" AROUND ENCLOSURE.
- 4 COMPACT SOIL AROUND BACKFLOW ENCLOSURE TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- 5 FINISH GRADE / TOP OF DG.
- 6 TUBE STEEL FRAME,
- 7 EXPANDED METAL, #12 GAUGE, SIDES AND TOP.

NOTES:  
 1. CONCRETE PAD SHALL BE SET PARALLEL W/ GRADE.  
 2. TEFLON SEAL ALL THREAD JOINTS.  
 3. SET EYEBOLT WITH BOTTOM OF CIRCLE FLUSH WITH CONCRETE BASE THEN EYEBOLT CANNOT BE TURNED WHEN BRACKET IS IN PLACE.  
 4. BOLT BRACKET TO ENCLOSURE ON ENDS OR BOTH SIDES. USE 1/4" X 1 1/4" TAMPER-PROOF BOLTS WITH HEX NUTS AND WASHERS PROVIDED.  
 5. WELD ENCLOSURE SOLID AT ALL JOINTS.  
 6. TOOL EXPOSED CONCRETE EDGES TO 3/8" RADIUS.  
 7. MIN. CLEARANCE INSIDE CAGE TO BE 6".



- 1 CONTROL WIRE BUNDLE, TAPE AT 10' INTERVALS.
- 2 PVC LATERAL LINE.
- 3 PVC SCH 40 MAINLINE.
- 4 COMPACT SOIL AROUND CONTROL VALVE PIT ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- 5 FINISH GRADE / TOP OF DG.
- 6 SNAKE PVC PIPE IN TRENCHES.
- 7 COMPACT TRENCH BACKFILL IN 6" LIFTS, DENSITY TO MATCH ADJACENT SOIL CONDITIONS.

NOTES:  
 1. INSTALL 120 VOLT WIRING IN CONDUIT, PER LOCAL CODES.  
 2. SLEEVE LINES UNDER PAVING.  
 3. LOOP WIRE BUNDLES (20" MIN.) AT CHANGES IN TRENCH DIRECTION.  
 4. PROVIDE PIPE DETECTION TAPE FOR MAINLINE TRENCHES.  
 5. MAKE WIRE CONNECTION AND SPLICES WITH WATER PROOF CONNECTORS PER MFG. RECOMMENDATIONS.  
 6. BACKFILL OF PIPE TRENCHES SHALL HAVE NO ROCK 1" IN SIZE OR LARGER.  
 7. PROVIDE 2" SAND BEDDING ALL AROUND PIPE IF ROCKY SOILS PRESENT.

### 1 BACKFLOW PREVENTER ASSEMBLY

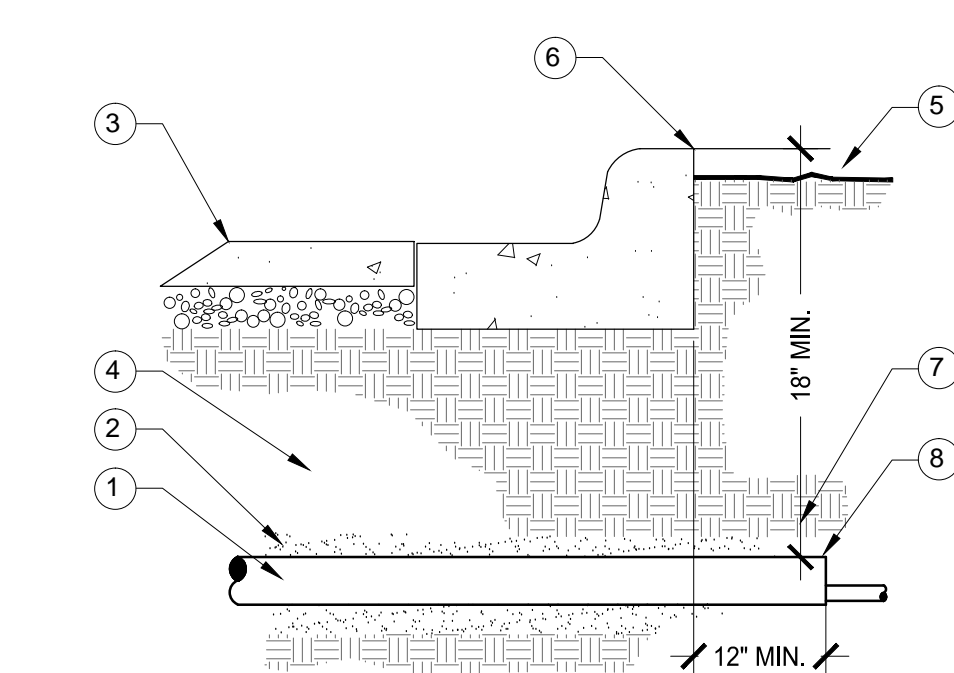
SCALE: N.T.S.

### 2 BACKFLOW PREVENTER ENCLOSURE

SCALE: N.T.S.

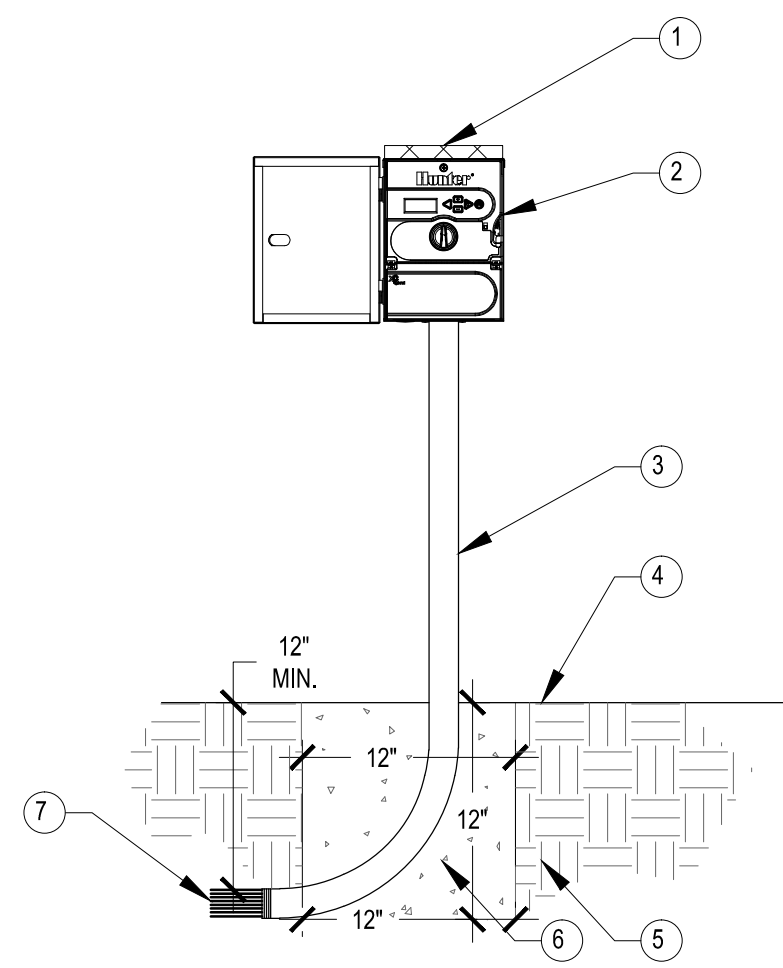
### 3 IRRIGATION TRENCH

SCALE: N.T.S.



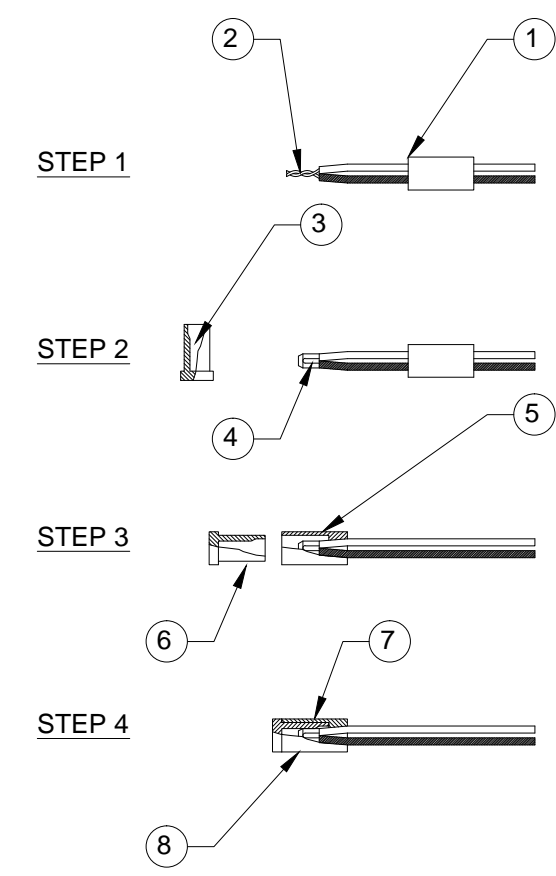
- 1 SCH. 40 PVC SLEEVE, TWICE DIAMETER OF SERVICE PIPE, SEE SLEEVE/PIPE SCHEDULE.
- 2 WASHED AND GRADED MORTAR SAND BACKFILL IN ROCKY SOIL CONDITIONS.
- 3 PAVING.
- 4 COMPACT SOIL AROUND SLEEVE TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- 5 FINISH GRADE / TOP OF DG.
- 6 DISCRETELY PAINT OR MARK EDGE OF PAVING, CURB, OR WALK AT SLEEVE LOCATIONS.
- 7 36" MIN. DEPTH OR PER LOCAL CODE.
- 8 EXTEND SLEEVES 12" BEYOND EDGES.

NOTES:  
 1. CAP SLEEVES UNTIL USE.  
 2. MULTIPLE SLEEVES REQUIRE 4" SEPERATION WITHIN SAME SLEEVE TRENCH.  
 3. PROVIDE SEPERATE WATER LINE AND WIRE SLEEVES AS REQUIRED. NO WIRES IN WATER SLEEVES.  
 4. SLEEVE FOR DRIVEWAYS AND SIDEWALKS TO MATCH TRENCHING DEPTH FOR PIPE AND WIRES.



- 1 SOLAR POWERED
- 2 MODEL XC-600-SS CONTROL WIRE IN ELECTRICAL CONDUIT.
- 3 35" STEEL MOUNTING COLUMN.
- 4 FINISH GRADE.
- 5 BACKFILL SOIL.
- 6 POURED CONCRETE BASE 1 CU.FT. INSTALL PER MANUFACTURER'S INSTALLATION GUIDE.
- 7 DIRECT BURIAL CONTROL WIRES TO CONTROL VALVES.

NOTES:  
 1. INSTALL WIRING PER LOCAL CODE AND MFG. RECOMMENDATIONS.  
 2. PROVIDE LIGHTNING PROTECTION AND GROUNDING FOR CONTROLLER.  
 3. PROVIDE LOCK FOR CONTROLLER ENCLOSURE.  
 4. PLACE WEATHERPROOF COPY OF CONTROLLER SCHEDULE INSIDE ENCLOSURE.  
 5. ALLOW 3 FT. CLEARANCE IN FRONT OF CONTROLLER ENCLOSURE DOOR FOR ACCESS.  
 6. HUNTER PANEL KIT SCXCH IS REQUIRED FOR INSTALLATION.  
 7. HUNTER XCHS MOUNTING POLE REQUIRED FOR INSTALLATION.  
 8. HUNTER SOLENOID REQUIRED FOR EACH VALVE (SRV-100G).



- 1 SLIP BASE SOCKET OVER END OF WIRES.
- 2 STRIP WIRES 1/2" FROM ENDS, TWIST ENDS TOGETHER.
- 3 APPLY SEALER TO OUTSIDE OF SEALING PLUG, FILL CAVITY WITH SEALER.
- 4 PLACE CRIMP SLEEVE OVER WIRE ENDS, CRIMP SLEEVE AND BEND OVER EXCESS WIRE.
- 5 PLACE BASE SOCKET OVER WIRE END SNUG TO CRIMP SLEEVE.
- 6 PUSH SEALING PLUG INTO BASE SOCKET.
- 7 PUSH WIRES TO END OF BASE SOCKET TO ASSURE COMPLETE SEALING OF CONNECTION.
- 8 RAINBIRD PEN-TITE WIRE CONNECTOR APPROVED EQUAL.

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

### 4 IRRIGATION SLEEVE

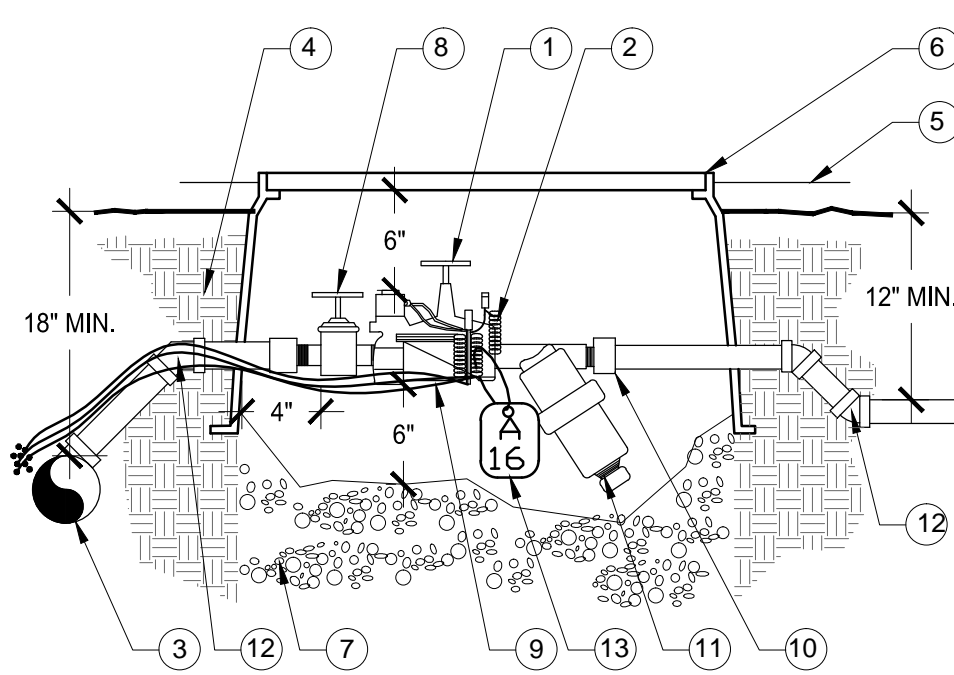
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### 6 CONTROLLER - SOLAR - HUNTER XCH 600 SS

SCALE: N.T.S.

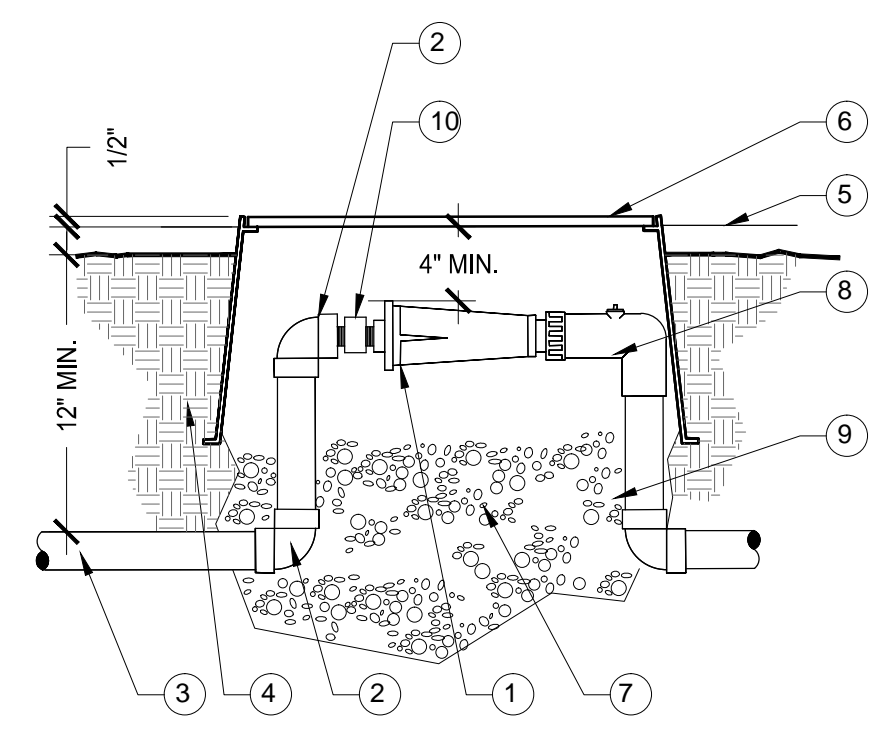
### 6 IRRIGATION WIRE CONNECTIONS

SCALE: N.T.S.



- 1 ELECTRIC REMOTE VALVE PER LEGEND.
- 2 EPOXY FILLED CYLINDER WIRE CONNECTORS.
- 3 PVC SCH 40 MAINLINE.
- 4 COMPACT SOIL AROUND CONTROL VALVE PIT ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- 5 FINISH GRADE / TOP OF DG.
- 6 12" VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. TAN COLOR IN DG, GREEN IN TURF.
- 7 3/4" WASHED PEA GRAVEL SUMP, 2 CU. FT MIN.
- 8 PVC ISOLATION BALL VALVE.
- 9 CONTROLLER WIRE, TAPE AND BUNDLE AT 10' INTERVALS.
- 10 PVC SCH 80 UNION.
- 11 WYE FILTER (#150 MESH) WITH STAINLESS STEEL SCREEN, POSITION TO ONE SIDE AND DOWNWARD.
- 12 PVC SCH 80 FITTINGS.
- 13 VALVE TAG, STANDARD VALVE I.D. AND LETTER TO CORRESPOND TO CONTROLLER AND VALVE NUMBER, AFFIX TO CONTROL WIRE W/ ELECTRICAL WIRE TIE.

NOTES:  
 1. PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX. (WRAP WIRE AROUND PIPE 15 TIMES).  
 2. SET VALVE BOX PARALLEL W/ GRADE.  
 3. SEAL THREADED JOINTS WITH TEFLON.  
 4. DO NOT REST VALVE BOX ON MAIN LINE.  
 5. LOCATE ONLY 1 VALVE ASSEMBLY PER VALVE BOX.  
 6. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.  
 7. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

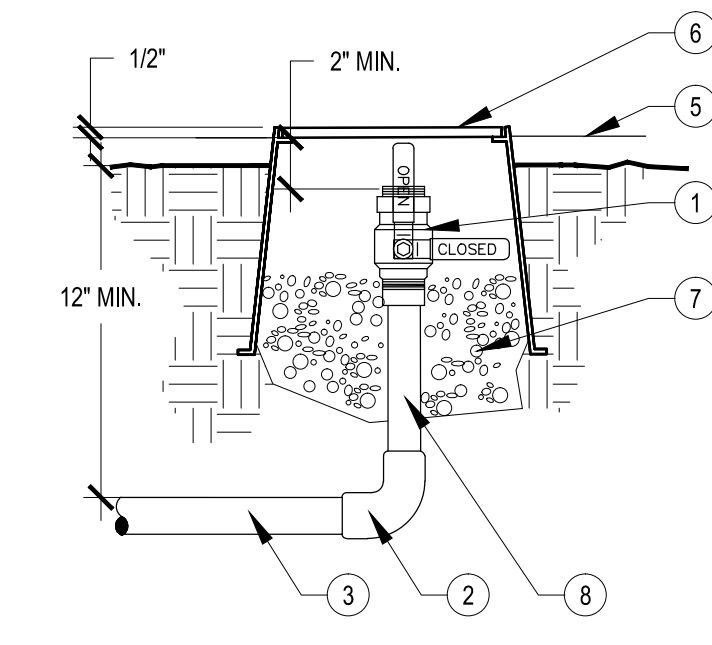


- 1 PRESET PRESSURE REGULATOR, 30 PSI OR PER LEGEND.
- 2 PVC SCH 80 FITTINGS.
- 3 PVC SCH 40 MAINLINE.
- 4 COMPACT SOIL AROUND PRESSURE REGULATOR ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- 5 FINISH GRADE / TOP OF DG.
- 6 12" VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. COLOR TO BE TAN IN DG, GREEN IN TURF.
- 7 3/4" WASHED PEA GRAVEL SUMP, 1 CU. FT. (12"X12"X12") MIN.
- 8 PVC ELL 1/2" HT SWIVEL W/ SCHRADER PRESSURE CHECK VALVE.
- 9 PVC SCH 40 LATERAL OR PER IRRIGATION LEGEND.
- 10 PVC SCH 80 UNION.

NOTES:  
 1. SET VALVE BOX PARALLEL WITH GRADE.  
 2. SEAL THREADED JOINTS WITH TEFLON.  
 3. DO NOT REST VALVE BOX ON MAIN LINE.  
 4. LOCATE ONLY 1 PRESSURE REGULATOR PER VALVE BOX.  
 5. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.  
 6. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

### 8 PRESSURE REGULATOR - DRIP VALVE

SCALE: N.T.S.



- 1 BRONZE 3/8" THREADED FULL-PORT BALL VALVE.
- 2 PVC SCH 80 FITTINGS.
- 3 PVC SCH 40 LATERAL OR PER IRRIGATION LEGEND.
- 4 COMPACT SOIL AROUND FLUSH CAP ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- 5 FINISH GRADE / TOP OF DG.
- 6 VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. 10" MIN. SIZE. COLOR TO BE TAN IN DG, GREEN IN TURF.
- 7 3/4" WASHED PEA GRAVEL SUMP, 1 CU. FT MIN.
- 8 PVC SCH 80 1/2" NIPPLE RISER (LENGTH AS REQUIRED).

NOTES:  
 1. SET VALVE BOX PARALLEL W/ GRADE.  
 2. SEAL THREADED JOINTS WITH TEFLON.  
 3. DO NOT REST VALVE BOX ON MAIN LINE.  
 4. LOCATE ONLY ONE FLUSH CAP PER VALVE BOX.  
 5. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.  
 6. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

### 9 DRIP VALVE - BALL VALVE FLUSH CAP

SCALE: N.T.S.

### 7 DRIP VALVE ASSEMBLY

SCALE: N.T.S.

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REV.	COMMENT	DATE

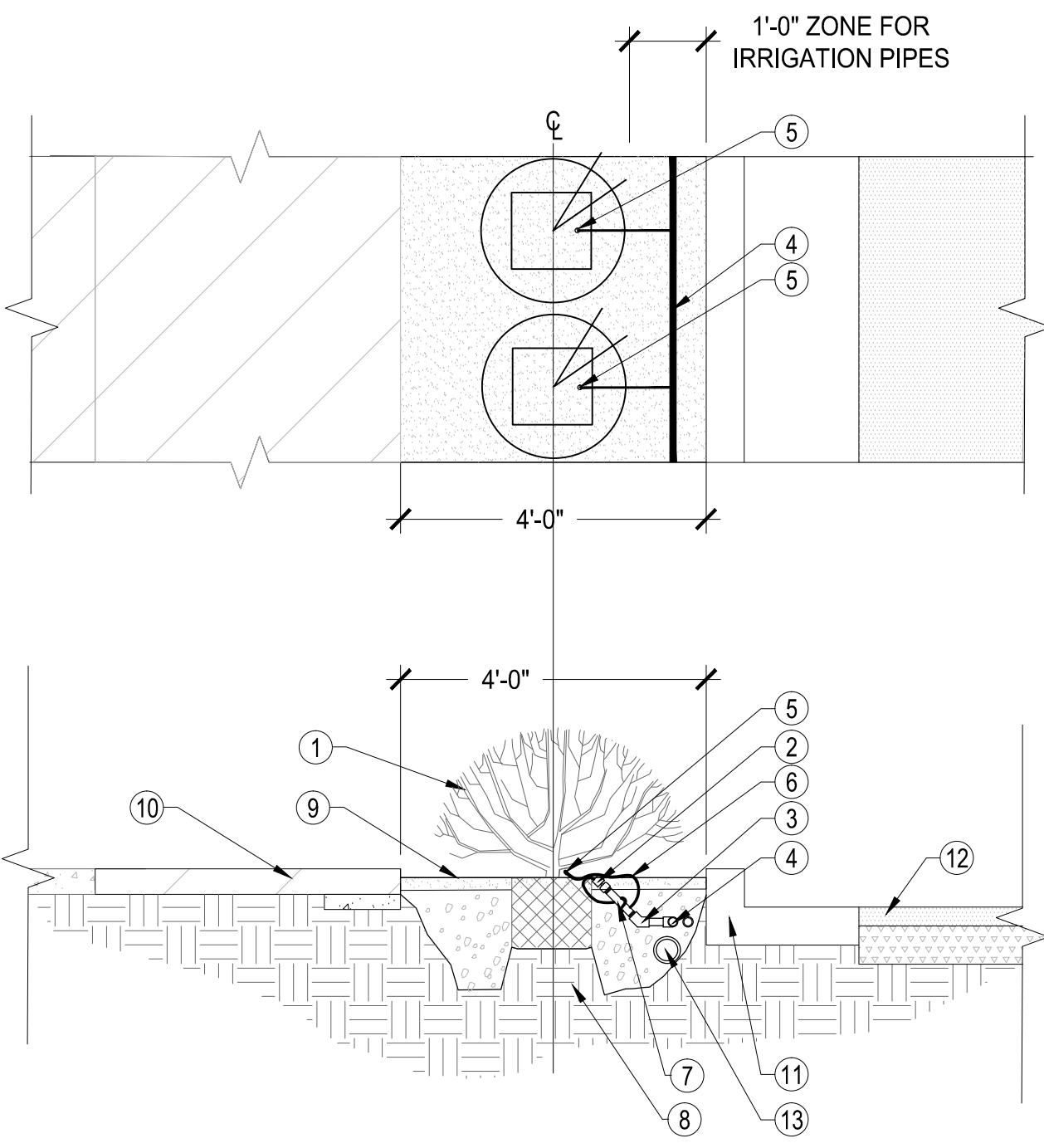
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90% Submittal	03.04.22
60% Submittal	08.06.21
30% Submittal	04.12.21
ISSUE	DATE

LANDSCAPE PACKAGE  
 June 6, 2023  
 DRAWN BY: BZS  
 CHECK BY: JEH  
 PROJ. NO.: 2020-007  
 CASE NO.: 17-2597

IRRIGATION DETAILS  
**L5.0**  
 62 of 63

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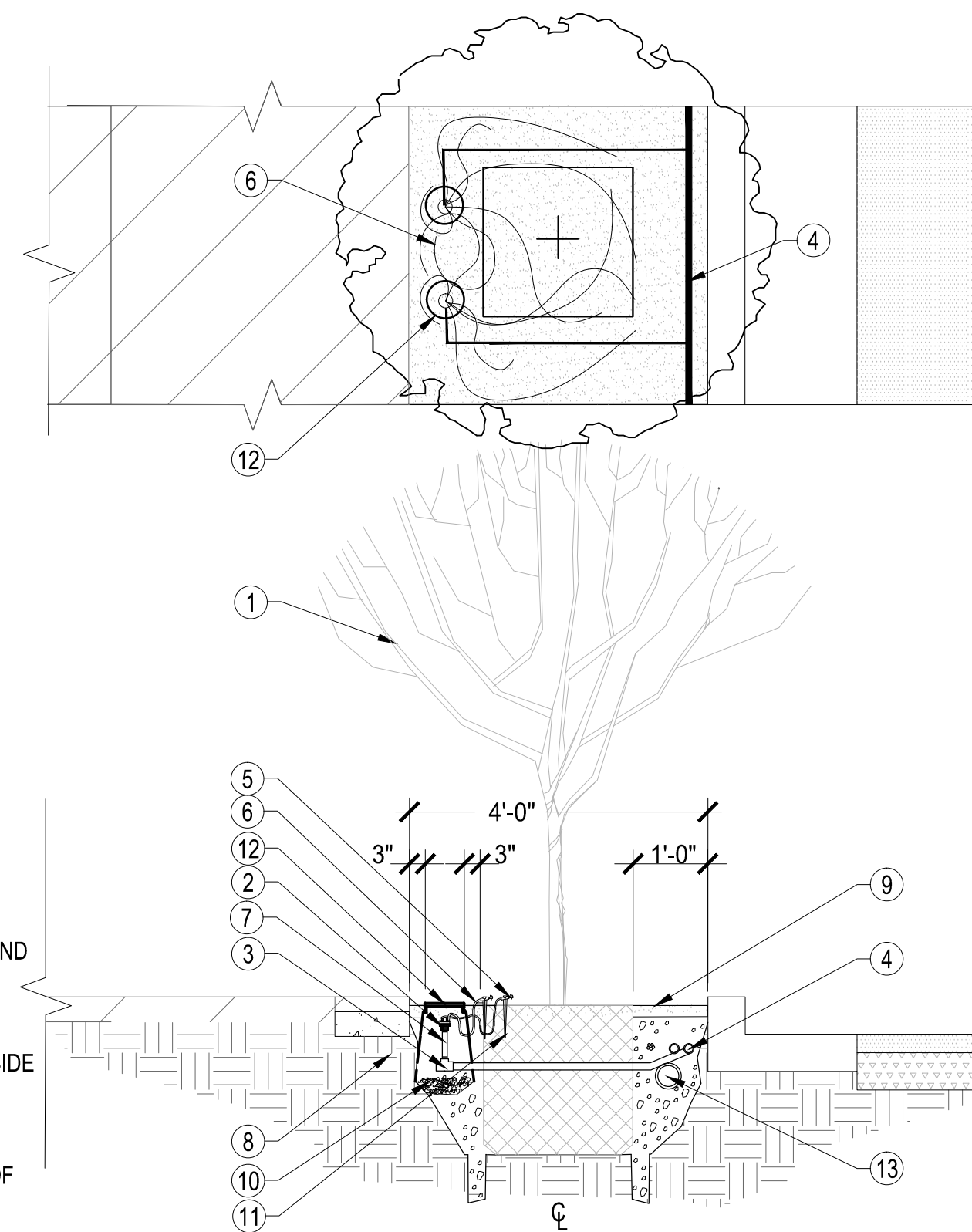
- 1 PLANT MATERIAL, SEE LANDSCAPE LEGEND.
- 2 PRESSURE COMPENSATING EMITTER, THREADED. SEE LEGEND FOR SIZE.
- 3 PVC SCH 80 FITTING, ELL OR TEE.
- 4 PVC SCH 40 LATERAL OR PER IRRIGATION LEGEND.
- 5 BUG CAP.
- 6 DISTRIBUTION TUBING. LOOP AROUND PVC FOR A 5 FT MAXIMUM LENGTH. DO NOT KINK TUBING.
- 7 PVC SCH 80 1/2" NIPPLE RISER, THREADED (LENGTH AS REQUIRED).
- 8 NATIVE UNDISTURBED SOIL OR COMPACT FILL TO 85% STANDARD PROCTOR DENSITY.
- 9 FINISH GRADE / TOP OF DG.
- 10 STAINED CONCRETE SIDEWALK PER PLAN.
- 11 CONCRETE HEADER PER PLAN.
- 12 ROAD ASPHALT SURFACE, SEE CIVIL PLANS.
- 13 MAINLINE PIPE.

**NOTES:**

- 1. SINGLE PORT EMITTER FOR SHRUBS, ACCENTS, AND GROUND COVERS ONLY.
- 2. SEAL THREAD JOINTS WITH TEFLON.
- 3. SLOPE CONDITIONS: PLACE EMITTER ON UPHILL SIDE OF PLANT.
- 4. DO NOT DISTURB ROOTBALL WITH PVC PIPE.
- 5. INSTALL EMITTERS ONLY AFTER SYSTEM FLUSH OF LATERALS.

**1 SINGLE PORT EMITTER WITH DISTRIBUTION TUBING**

SCALE: N.T.S.



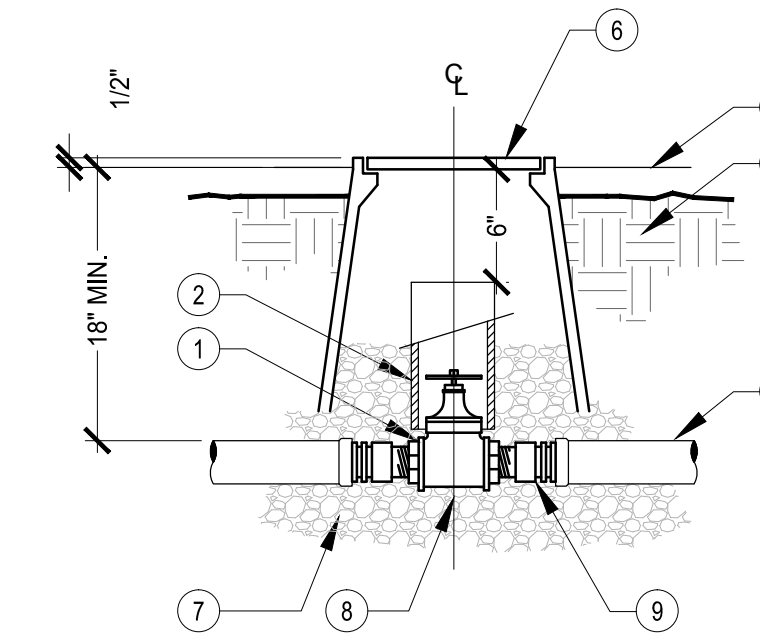
- 1 TREE, SEE LANDSCAPE LEGEND.
- 2 PRESSURE COMPENSATING EMITTER, THREADED. SEE LEGEND FOR SIZE.
- 3 PVC SCH 80 FITTING, ELL OR TEE.
- 4 PVC SCH 40 LATERAL OR PER IRRIGATION LEGEND.
- 5 BUG CAP.
- 6 1/4" DISTRIBUTION TUBING. LOOP FOR A 5 FT. MAXIMUM LENGTH. NO KINKS IN TUBING.
- 7 PVC SCH 80 1/2" NIPPLE RISER, THREADED (LENGTH AS REQUIRED).
- 8 NATIVE UNDISTURBED SOIL OR COMPACT FILL TO 85% STANDARD PROCTOR DENSITY.
- 9 FINISH GRADE / TOP OF DG.
- 10 3/8" WASHED PEA GRAVEL SUMP, 1/2 CU. FT MIN.
- 11 1/4" DISTRIBUTION TUBE EMITTER STAKE.
- 12 6" VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. COLOR TO BE TAN IN DG.
- 13 MAINLINE PIPE.

**NOTES:**

- 1. MULTI PORT EMITTER FOR TREES AND MASSES PLANTS ONLY.
- 2. TEFLON SEAL ALL THREAD JOINTS.
- 3. ON SLOPE CONDITIONS, PLACE EMITTER ON UPHILL SIDE OF PLANT.
- 4. DO NOT DISTURB ROOTBALL WITH PVC PIPE.
- 5. SPACE EMITTER TUBING EQUALLY AROUND DRIP LINE OF TREE.
- 6. INSTALL EMITTERS ONLY AFTER SYSTEM FLUSH OF LATERALS.
- 7. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
- 8. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

**2 MULTI PORT EMITTER WITH DISTRIBUTION TUBING**

SCALE: N.T.S.



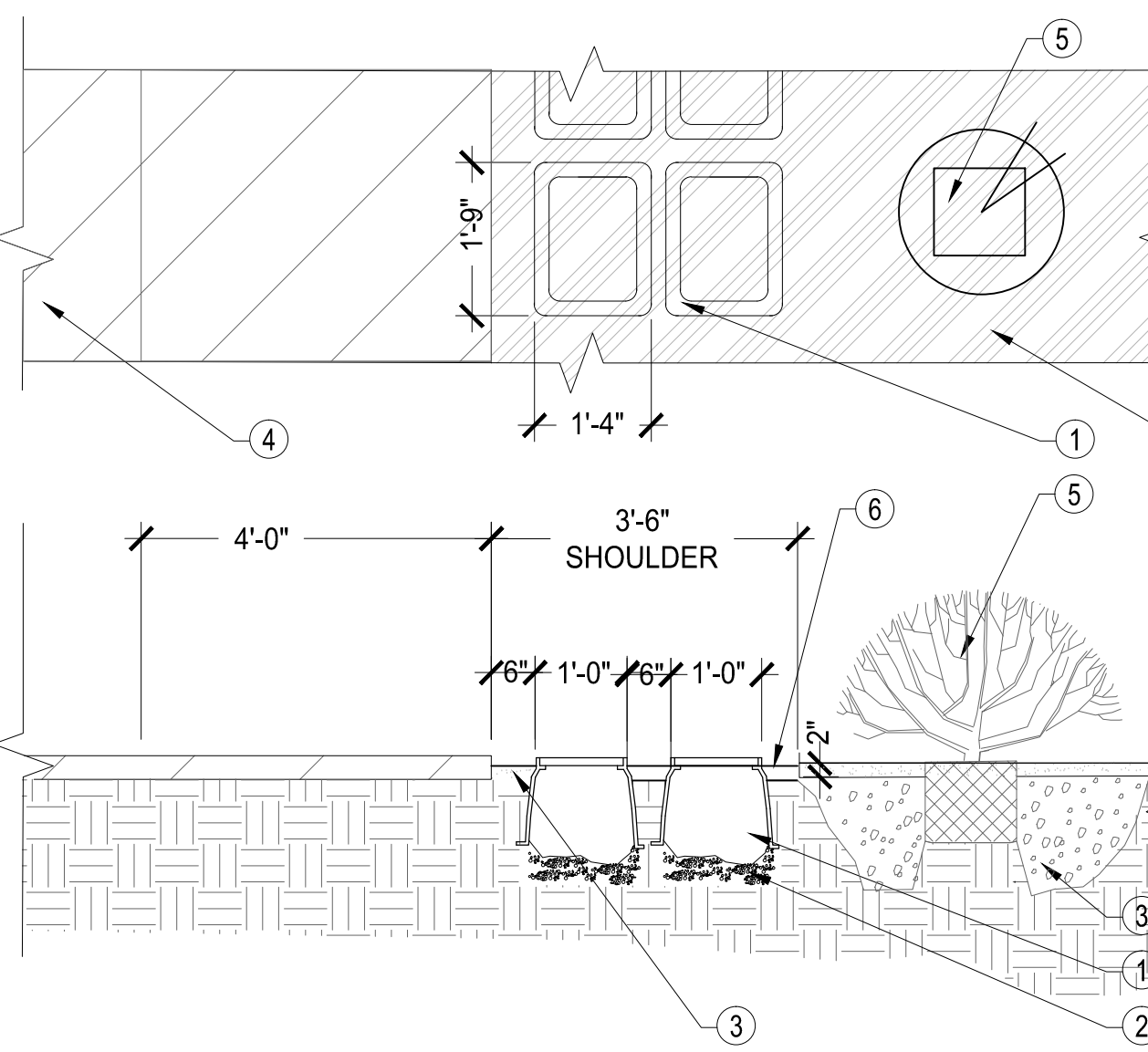
- 1 THREADED BRONZE GATE VALVE WITH SOILD WEDGE, NON-RISING STEM PER LEGEND.
- 2 PVC CL 200 PIPE (LENGTH AS REQUIRED), 6-INCH DIA.
- 3 PVC SCH 40 MAINLINE.
- 4 COMPACT SOIL AROUND GATE VALVE ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- 5 FINISH GRADE / TOP OF DG.
- 6 VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. 10" MIN. SIZE. COLOR TO BE TAN IN DG, GREEN IN TURF.
- 7 3/4" WASHED PEA GRAVEL SUMP, 1 CU. FT. (12"X12"X12").
- 8 PROVIDE THRUST BLOCK FOR VALVES 2" OR LARGER.
- 9 SCH 80 PVC COUPLING, 2 PLS.

**NOTES:**

- 1. SET VALVE BOX 3" ABOVE FINISHED GRADE.
- 2. PROVIDE GATE VALVE KEY - LENGTH AS REQUIRED.
- 3. DO NOT REST VALVE BOX ON MAIN LINE.
- 4. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
- 5. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

**3 GATE VALVE ASSEMBLY**

SCALE: N.T.S.



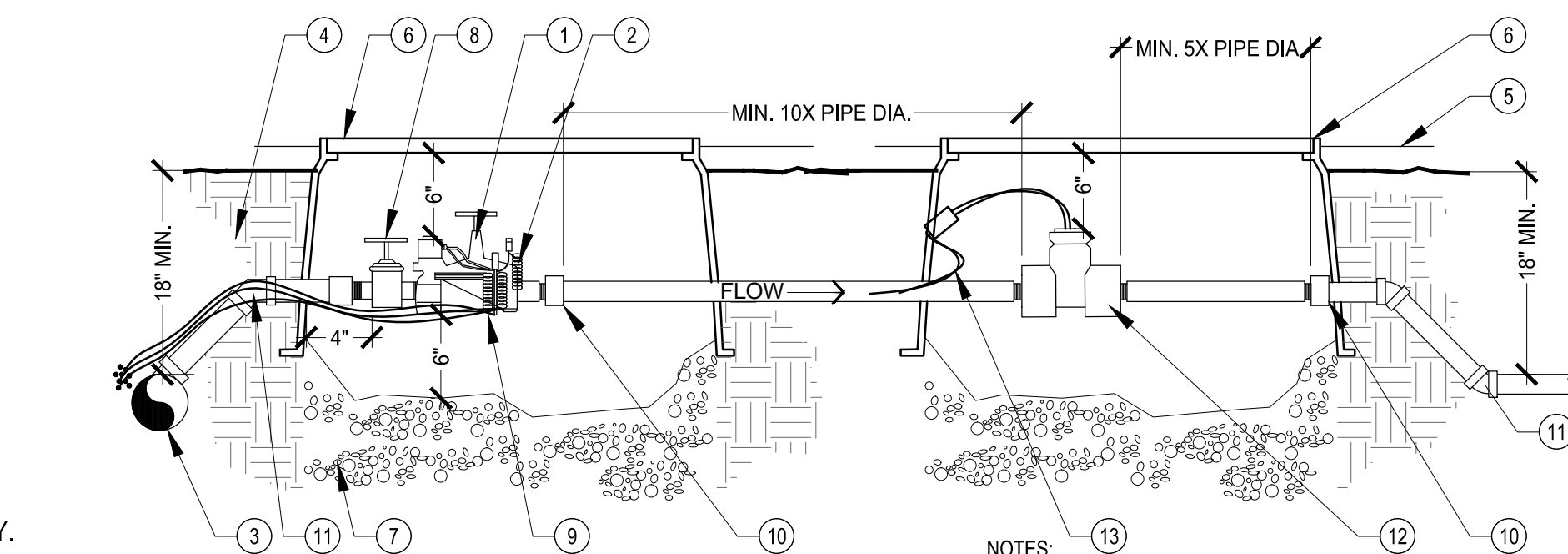
- 1 CARSON 1419-12, 12" STANDARD VALVE BOX.
- 2 3/4" WASHED PEA GRAVEL SUMP, 2 CU. FT MIN.
- 3 LANDSCAPE PLANTER AREA.
- 4 STAINED CONCRETE SIDEWALK.
- 5 PLANT MATERIALS PER PLAN LEGEND.
- 6 FINISH GRADE/TOP OF DG.
- 7 NATIVE UNDISTURBED SOIL OR COMPACT FILL TO 85% STANDARD PROCTOR DENSITY.

**NOTES:**

- 1. PROVIDE VALVE BOX FOR TREE&SHRUB DRIP VALVES AND PRESSURE REGULATORS.
- 2. DO NOT REST VALVE BOX ON MAIN LINE.
- 3. LOCATE ONLY 1 VALVE ASSEMBLY PER VALVE BOX.
- 4. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
- 5. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

**4 VALVE BOX PLACEMENT**

SCALE: N.T.S.



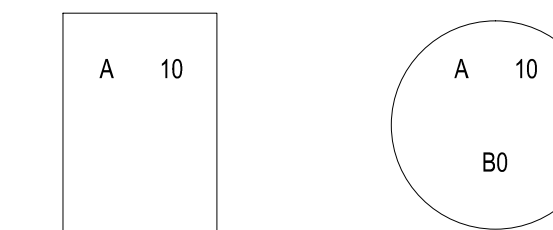
- 1 ELECTRIC REMOTE VALVE PER IRRIGATION LEGEND.
- 2 EPOXY FILLED CYLINDER WIRE CONNECTORS.
- 3 PVC SCH 40 MAINLINE.
- 4 COMPACT SOIL AROUND VALVE BOX ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- 5 FINISH GRADE / TOP OF DG.
- 6 12" VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. TAN COLOR IN DG, GREEN IN TURF.
- 7 3/4" WASHED PEA GRAVEL SUMP, 2 CU. FT. MIN.
- 8 PVC ISOLATION BALL VALVE.
- 9 CONTROLLER WIRE, TAPE AND BUNDLE AT 10' INTERVALS.
- 10 PVC SCH 80 UNION.
- 11 PVC SCH 80 FITTINGS.
- 12 FLOW SENSOR, SEE IRRIGATION LEGEND FOR PRODUCT AND SIZE.
- 13 FLOW SENSOR COMMUNICATION CABLE. WIRE TO IRRIGATION CONTROLLER OR TRANSMITTER.

**NOTES:**

- 1. PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX. (WRAP AROUND PIPE 15 TIMES).
- 2. VALVE BOX SHALL BE SET PARALLEL W/ GRADE.
- 3. TEFLON SEAL ALL THREAD JOINTS.
- 4. DO NOT REST VALVE BOX ON MAIN LINE.
- 5. LOCATE ONLY 1 VALVE ASSEMBLY PER VALVE BOX.
- 6. UNOBSTRUCTED FLOW REQUIRED BEFORE AND AFTER SENSOR FOR ACCURATE READING. LENGTH BEFORE PIPE TO BE 10 TIMES PIPE DIA. AND AFTER PIPE 5 TIMES PIPE DIA.
- 7. MAX. LENGTH OF SENSOR COMM. CABLE TO BE 2000 FT OR PER MFG. REQUIREMENTS.
- 8. MAINLINE PIPE SHALL NOT CHANGE SIZE OR DIRECTION WITHIN SPECIFIED SENSING RANGE.
- 9. USE 45 DEGREE ELBOWS TO ACHIEVE MAINLINE DEPTH ON DOWN-STREAM SIDE OF SENSOR.
- 10. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
- 11. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

**5 MASTER VALVE / FLOW SENSOR ASSEMBLY**

SCALE: N.T.S.



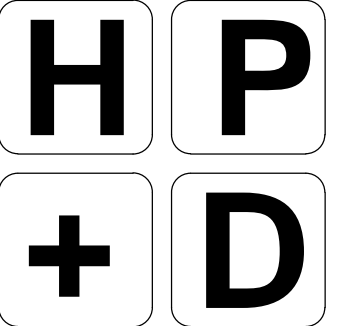
**NOTES:**

- 1. DRIP VALVE ASSEMBLY - SEE BELOW
- 2. CONTROL VALVE - SEE BELOW
- 3. MASTER VALVE - MV CENTER ON LID
- 4. QUICK COUPLER - QC CENTER ON LID
- 5. WIRE SPLICE - WS CENTER ON LID
- 6. GATE VALVE - GV CENTER ON LID
- 7. FLOW SENSOR - FS CENTER ON LID
- 8. LETTERS MUST BE STRAIGHT AND LEGIBLE. LIDS WITH INCORRECT SPELLING OR INCORRECT PRODUCT LABEL SHALL BE REPLACED AT NO CHARGE BY CONTRACTOR.

**6 VALVE BOX BRANDING**

SCALE: N.T.S.

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**LANDSCAPE PACKAGE**

June 6, 2023  
DRAWN BY: BZS  
CHECK BY: JEH  
PROJ. NO.: 2020-007  
CASE NO.: 17-2597

**IRRIGATION  
DETAILS**

**L5.1**

