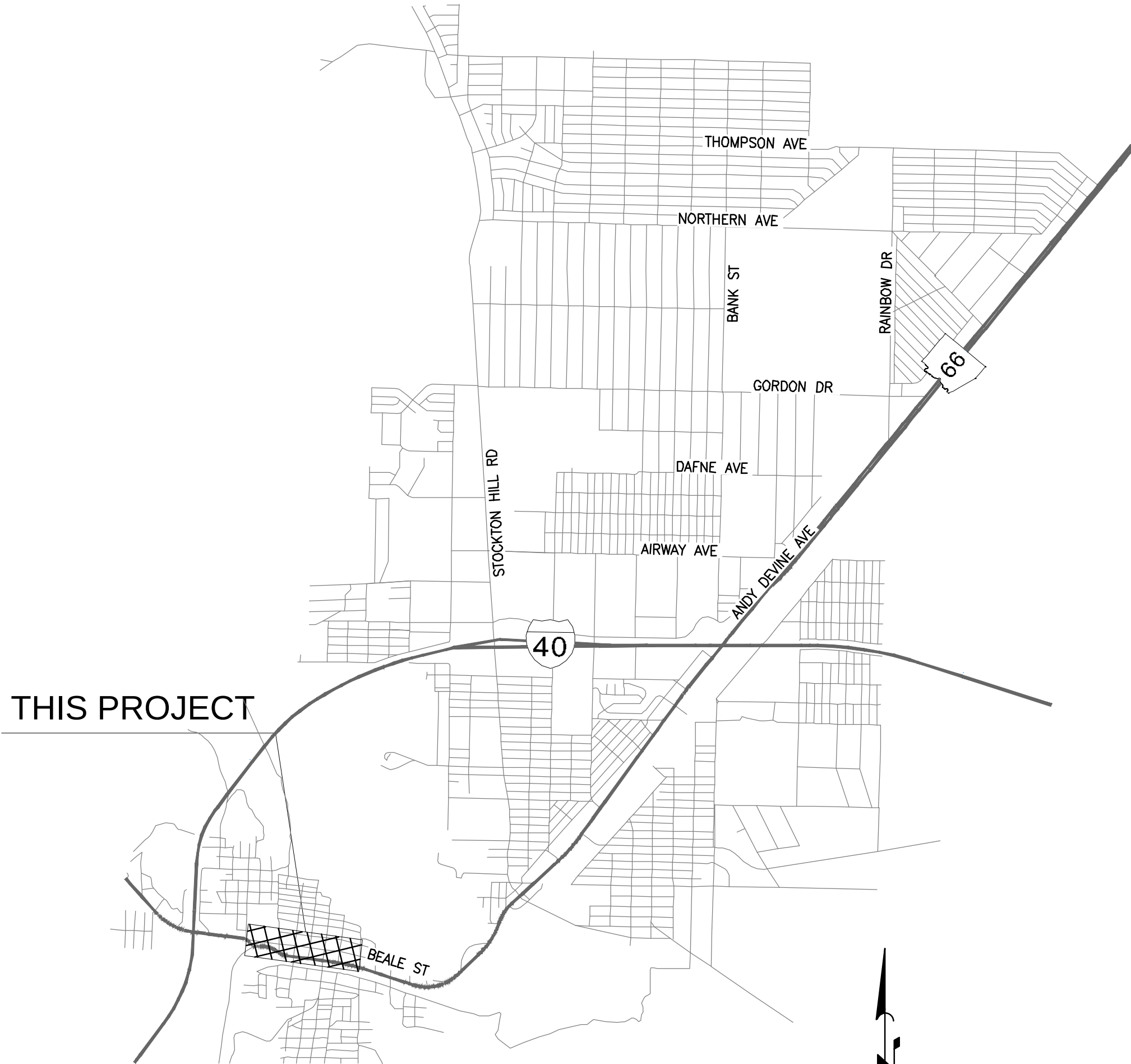


CITY OF KINGMAN  
PUBLIC WORKS DEPARTMENT  
KINGMAN DOWNTOWN INFRASTRUCTURE

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VICINITY MAP

NTS



2023

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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 TOTHE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED ENGINEER DATE

REGISTRATION NUMBER

APPROVED FOR:  
THE CITY OF KINGMAN

CITY ENGINEER (OF DESIGNEE) DATE

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

REVISIONS:

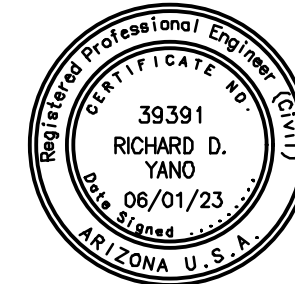
WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100



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 52





File: C:\Infrastructure\Trans\Projects\2020\3720205006\_Kingman Downtown Infrastructure Design\05-CAO\009-Sheets\5006-C01.dwg

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SIGNING GENERAL NOTES:

- ALL SIGNS SHALL BE IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION, THE ARIZONA SUPPLEMENT TO THE MUTCD 2009 EDITION, SIGNING AND MARKING STANDARD DRAWINGS, AND THE ADOT TRAFFIC ENGINEERING MANUAL OF APPROVED SIGNS.
- THE SIGN LOCATIONS AND THE POST LENGTHS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE SIGN LOCATIONS AND ACTUAL POST LENGTHS WITH THE ENGINEER PRIOR TO INSTALLING SIGNS.
- THE BOTTOM OF EACH SIGN SHALL BE AT LEAST 7 FEET ABOVE THE NEAREST EDGE OF PAVEMENT AND AT LEAST 7 FEET ABOVE THE GROUND UNDER THE SIGN.
- OFFSETS FOR ALL SIGNS SHALL BE MEASURED FROM THE EDGE OF THE ROADWAY TO THE NEAREST EDGE OF THE SIGN.
- ALL NEW SIGNS SHALL BE FABRICATED OF FLAT SHEET ALUMINUM SIGN PANELS WITH DIRECT APPLIED OR SILK SCREENED CHARACTERS AS LISTED IN SECTION 608.
- THE RETROREFLECTIVE SHEETING ON ALL NEW SIGNS SHALL MEET CRITERIA ESTABLISHED IN SECTION 1007 OF THE SPECIFICATIONS.
- ALL NEW SIGNS SHALL BE INSTALLED ON NEW SQUARE TUBE POSTS WITH FOUNDATIONS IN ACCORDANCE WITH ADOT SIGNING AND MARKING STANDARD DRAWING S-3.
- THE ENGINEER MAY MODIFY THE SIGNING PLANS.
- THE CONTRACTOR SHALL NOT ORDER ANY SIGN FABRICATION UNTIL SHOP DRAWINGS ARE APPROVED.
- THE CONTRACTOR SHALL REMOVE EXISTING SIGNING WHERE INDICATED IN THE SIGNING PLANS. COMPLETE REMOVAL OF THE FOUNDATIONS AND BASES IS REQUIRED WHEN SIGNS ARE REMOVED. CUTTING THE SUPPORT FLUSH WITH THE GROUND SURFACE DOES NOT CONSTITUTE REMOVAL.
- THE CONTRACTOR SHALL INVENTORY ALL SIGNS TO BE REMOVED OR COVERED AND NOTE DAMAGED SIGNS TO THE ENGINEER AT THE TIME OF COVERING OR REMOVAL. ALL SIGNS DAMAGED BY COVERING OR REMOVAL SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE.

PAVEMENT MARKING GENERAL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PERMANENT PAVEMENT MARKINGS ON THE FINAL SURFACE COURSE FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN 50 FEET APART ALONG THE LINES TO BE STRIPED.
- THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE ENGINEER, BY SWEEPING AND AIR-JET BLOWING, IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS. THE ROADWAY SURFACE SHALL BE DRY, AND THE AIR AND PAVEMENT TEMPERATURES SHALL BE A MINIMUM OF 55 DEGREE F AND RISING FOR THE PLACEMENT OF THERMOPLASTIC STRIPING.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FINAL SURFACE COURSE IS PLACED SO THAT THE STRIPING IS OFFSET ONE FOOT CLEAR OF ANY CONSTRUCTION JOINT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- WHEN STRIPE OBLITERATION IS NECESSARY, IT SHALL BE ACCOMPLISHED BY AN APPROVED METHOD. PAINTING OVER STRIPING, REMOVAL OF PAVEMENT, AND OVERLAYING PAVEMENT DO NOT CONSTITUTE STRIPE OBLITERATION.
- FINAL STOP BAR, SYMBOLS AND LEGENDS SHALL BE ALKYD EXTRUDED THERMOPLASTIC, 0.090 INCH THICK, PAVEMENT MARKING MATERIAL PLACED 30 DAYS AFTER THE INITIAL WATERBORNE TYPE I PAINTED STRIPING.
- THE DIMENSIONS SHOWN TO PAVEMENT STRIPING ARE TO THE CENTER OF THE STRIPING.
- ALL FINAL STOP BARS, CROSSWALK/LINES, AND PAVEMENT MARKING ARROWS SHALL BE 90 MIL (0.090 INCH) THICK EXTRUDED THERMOPLASTIC.

APPROXIMATE PAVEMENT MARKING AND SIGNING QUANTITIES

| ITEM DESCRIPTION                                            | QUANTITY | UNIT |
|-------------------------------------------------------------|----------|------|
| OBLITERATE PAVEMENT MARKING (STRIPE)                        | 1        | LS   |
| WATERBORNE-TYPE I PAVEMENT MARKING (PAINTED){(WHITE)*       | 8614     | LF   |
| PAVEMENT MARKING (WHITE EXTRUDED THERMOPLASTIC){(0.090)*    | 6513     | LF   |
| INSTALL ADA PARKING SYMBOL                                  | 12       | EA   |
| MOUNT SIGN ON LIGHT POLE                                    | 12       | EA   |
| REMOVE EXISTING SIGN                                        | 58       | EA   |
| SIGN POST (PERFORATED){(25)                                 | 440      | LF   |
| WARNING, MARKER OR REGULATORY SIGN PANEL                    | 345      | SF   |
| INSTALL FLASHING LED EQUIPMENT FOR STOP SIGN PER DETAIL T-1 | 4        | EA   |

\*PAVEMENT MARKING QUANTITIES ARE BASED ON 4" EQUIVALENT QUANTITIES

GENERAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAG UNIFORM STANDARDS SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION JANUARY 2022 EDITION AND THE CITY OF KINGMAN STANDARD DETAILS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
- THE CITY ENGINEER'S OFFICE SHALL BE NOTIFIED 24 HOURS PRIOR TO STARTING EACH PHASE OF CONSTRUCTION (928) 753-8195.
- PRIOR TO ANY CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR/DEVELOPER SHALL NOTIFY THE LANDSCAPE ARCHITECT AT (480) 250-0116. ANY CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE RESTORED TO ORIGINAL CONDITIONS USING THE FOLLOWING REQUIREMENTS:
  - ALL TREES IMPACTED BY CONSTRUCTION SHALL BE REPLACED WITH THE SAME SIZE AND TYPE OF TREE ALLOCATION DETERMINED BY THE CITY.
  - ALL IRRIGATION SYSTEMS SHALL BE RESTORED TO FULLY FUNCTIONING STATUS. ANY IRRIGATION LOCATED BENEATH ASPHALT OR CONCRETE SHALL BE SLEEVED WITH SCHEDULE 40 PVC TWO (2) NOMINAL SIZES LARGER.
  - THE AREA OF CONSTRUCTION SHALL BE TREATED WITH PRE - EMERGENT HERBICIDE (IE; SURFLAN).
  - GRANITE A SIZE AND COLOR TO MATCH EXISTENCE SHALL BE SPREAD A MINIMUM OF TWO (2) INCHES THICK.
  - THE STREET DIVISION SHALL BE CONTACTED TO INSPECT ALL WORK BEFORE A CONDITIONAL ACCEPTANCE IS ISSUED.
  - THE CONTRACTOR/DEVELOPER SHALL MAINTAIN THE AREA FOR NINETY (90) DAYS AFTER CONDITIONAL ACCEPTANCE. AFTER THE NINETY (90) DAYS THE CITY SHALL BE CONTACTED FOR FINAL ACCEPTANCE AND ASSUMPTION OF MAINTENANCE.
- ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE CITY ENGINEER AND/OR ALL WORK IN MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS AND PLANS IS SUBJECT TO REPLACEMENT AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL UNCOVER ALL EXISTING LINES TO VERIFY THEIR LOCATION. THE CONTRACTOR SHALL LOCATE OR HAVE LOCATED ALL EXISTING UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, PIPELINES, ETC.) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OR ANY CONFLICTS PRIOR TO THE START OF CONSTRUCTION. BLUESTAKE TELEPHONE (602) 263-1100.
- THE CITY OF KINGMAN IS NOT RESPONSIBLE FOR LIABILITY INCURRED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RELOCATION. ANY UTILITY LOCATIONS NEEDED TO FACILITATE CONSTRUCTION WILL BE PERFORMED BY THE UTILITY OWNER.
- NO FINAL ACCEPTANCE SHALL BE ISSUED UNTIL 4 MILL PHOTO MYLAR REPRODUCIBLE "AS-BUILT" PLANS CERTIFIED AND SEALED BY A REGISTERED CIVIL ENGINEER HAVE BEEN SUBMITTED AND ACCEPTED BY THE CITY ENGINEER.
- BACKFILLING OF UTILITY TRENCHES OR POTHoles SHALL NOT BE STARTED UNTIL LINES ARE APPROVED BY THE CITY ENGINEER. ALL BACKFILL SHALL BE HALF-SACK, ABC OR NATIVE MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH MAG SECTION 601, TYPE I. BACKFILL PLACEMENT AND SURFACE REPLACEMENT SHALL BE IN ACCORDANCE WITH MAG STD DTL 200 TTOP.
- AN APPROVED SET OF PLANS SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES THAT WORK IS IN PROGRESS. DEVIATION FROM THE PLANS SHALL NOT BE ALLOWED WITHOUT AN APPROVED PLAN REVISION.
- SETBACKS FOR UTILITY POLES, STRUCTURES, AND OTHER SIMILAR FACILITIES GREATER THAN 18' IN HEIGHT SHALL BE 5.5' BACK OF CURB. IN CASES WHERE THE FACILITIES ARE ADJACENT TO A DECELERATION LANE OR BUS BAY, WITH SETBACK CAN BE REDUCED TO 2.5' BACK OF CURB.
- STREETLIGHTS SHALL USE LED LUMINARIES CONTROLLED BY INDIVIDUAL PHOTOCELLS PER CITY OF KINGMAN.
- ALL LUMINARIES SHALL BE CITY OF KINGMAN APPROVED LUMINARIES.
- ALL JUNCTION BOXES SHALL BE INSTALLED AT FINISHED GRADE AND SHALL BE ADJACENT TO EACH POLE.
- STREET LIGHT CONDUCTORS SHALL BE NO. 12 AWG SOLID SOFT-DRAWN COPPER AND BARE THE UL LABEL EXCEPT FOR GREEN GROUNDING. GREEN GROUND SHALL BE NO. 8 AWG. INSTALLATION SHALL BE TYPE THWN.
- CONCRETE BASES ARE REQUIRED FOR ALL STREET LIGHTS. CONCRETE FOR POLE FOUNDATIONS SHALL BE CLASS A (3,000#) AND CONFORM TO PUBLIC WORKS CONSTRUCTION (MAG SPECIFICATIONS).
- CONDUIT SHALL BE INSTALLED BETWEEN POLES AND JUNCTION BOXES IN ALL AREAS AS SHOWN. CONDUIT REQUIRED FOR STREET, ALLEY OR DRIVEWAY CROSSINGS SHOULD BE 4". SCHEDULE 40 POLYVINYL CHLORIDE FOR ALL INSTALLATIONS
- CONDUIT RUNS BETWEEN STREET LIGHT POLE AND JUNCTION BOX SHALL BE 1". THE CONDUIT SHALL BE EITHER 1" SCHEDULE POLYVINYL CHLORIDE OR LIQUID TIGHT FLEXIBLE NON METALLIC CONDUIT THAT CONFORMS TO THE INSTALLATION AND USE OF SPECIFICATIONS SET FORTH IN THE NATIONAL ELECTRICAL CODE, SECTION 351.
- THE CONTRACTOR SHALL AFFIX STREETLIGHT NUMBER ON EACH POLE AS SHOWN ON THE JOB ORDER PLAN PRIOR TO FINAL INSPECTION.
- STREETLIGHT CONDUCTOR TRENCHES WILL NOT BE BACKFILLED UNTIL INSPECTED AND APPROVED BY CITY OF KINGMAN INSPECTOR.

- CITY OF KINGMAN TO MAINTAIN SERVICE FOR EXISTING STREETLIGHT THROUGHOUT THE VARIOUS CONSTRUCTION PHASES.
- ANY VARIANCE TO AN APPROVED LUMINAIRE SHALL REQUIRE A NEW DESIGN ACCOMPANIED WITH POINT-TO-POINT LIGHTING CALCULATIONS AT TEN FOOT INTERVALS INDICATING MAINTAINED FOOTCANDLE LEVELS BETWEEN LUMINARIES' AND ACROSS THE WIDTH OF THE ROAD WAY FOR APPROVAL BY THE CITY ENGINEER.
- THE JUNCTION BOX NEAREST TO A POLE SHALL BE LOCATED INSIDE THE PUBLIC RIGHT-OF-WAY OR IN A PUBLIC UTILITY EASEMENT UNLESS OTHERWISE DIRECTED.
- CONTRACTOR TO REMOVE OVERHEAD CANOPY STRUCTURE LOCATED ON BUSINESS BETWEEN 2ND & 3RD ON WB BEALE STREET. BUSINESSES INCLUDE ROOT OUTLET TEEN CENTER (#213), SEA DOG MERCHANTS (#211), AND SHADY GROVE RECORDS (#209).
- BUSINESSES TO REMOVE ALL FENCING, RAISED DRINK PLATFORMS, SEATING AREAS, ETC. BEFORE CONSTRUCTION.
- PARKLETS TO BE REMOVED BY BUSINESS OWNERS WITH CITY OF KINGMAN SUPPORT PRIOR TO CONSTRUCTION.
- THIS SET OF PLANS HAS BEEN INITIALLY REVIEWED BY THE CITY OF KINGMAN. SUCH REVIEW IS PART OF THE PROCESS THAT DEVELOPER(S)/CONTRACTOR(S) MUST GO THROUGH IN ORDER TO OBTAIN A CONSTRUCTION PERMIT. THE RESULTS OF SUCH INITIAL REVIEW SHALL NOT DICTATE THE CITY OF KINGMAN'S FINAL DETERMINATION AS TO THE ACCEPTABILITY OF THE PLANS, NOR SHALL IT PREVENT THE CITY OF KINGMAN FROM REQUIRING ERRORS AND OMISSIONS, AS FOUND ON PLANS, BE ADDRESSED BY DEVELOPER(S) /CONTRACTOR(S), WHERE SUCH ERRORS AND OMISSIONS CAUSE THE PLANS TO BE IN VIOLATION OF OR INADEQUATE UNDER APPLICABLE FEDERAL/STATE/COUNTY/LOCAL CODES, ORDINANCES, REGULATIONS, OR OTHER LAWS. THIS REVIEWED AND STAMPED SET OF PLANS MUST BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
- EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
- CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION.
- GRADING BETWEEN BACK OF CURB AND PROPERTY LINE SHALL BE LIMITED TO 4:1 SLOPE.
- ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

PROJECT SURVEY CONTROL

SURVEY IS BASED ON CITY OF KINGMAN CONTROL DATA RECEIVED ON APRIL 26, 2020.

HORIZONTAL DATUM IS CITY OF KINGMAN ARIZONA STATE PLANE WEST (NAD 27), PER BOOK 10 OF RECORDS OF SURVEYS, PAGE 38, RECORDS OF MOHAVE COUNTY ARIZONA.

PRIMARY BENCHMARK IS CITY OF KINGMAN BENCHMARK DESIGNATED AS "91-54", THE TOP OF THE SOUTHEAST BOLT ON A TRAFFIC LIGHT AT THE NORTHWEST CURB RETURN OF BEALE STREET AND FIRST STREET, HAVING AN ELEVATION OF 3334.69' CITY OF KINGMAN NAVD 88 DATUM.

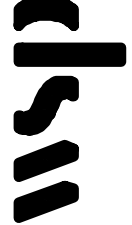
SECONDARY BENCHMARK IS CITY OF KINGMAN BENCHMARK DESIGNATED AS "91-94", A PK NAIL IN THE TOP OF THE CURB RETURN AT THE SOUTHEAST CORNER OF THIRD STREET AND BEALE STREET HAVING AN ELEVATION OF 3344.16', CITY OF KINGMAN NAVD 88 DATUM.

CITY OF KINGMAN TO PROVIDE ALL SURVEY TO BUILD THE PROJECT.

REVISIONS:

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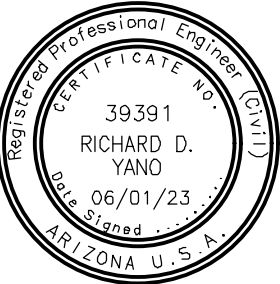
WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100



GENERAL NOTES & PROJECT CONTROL

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  
GN01

SHEET NO. 2 of 52

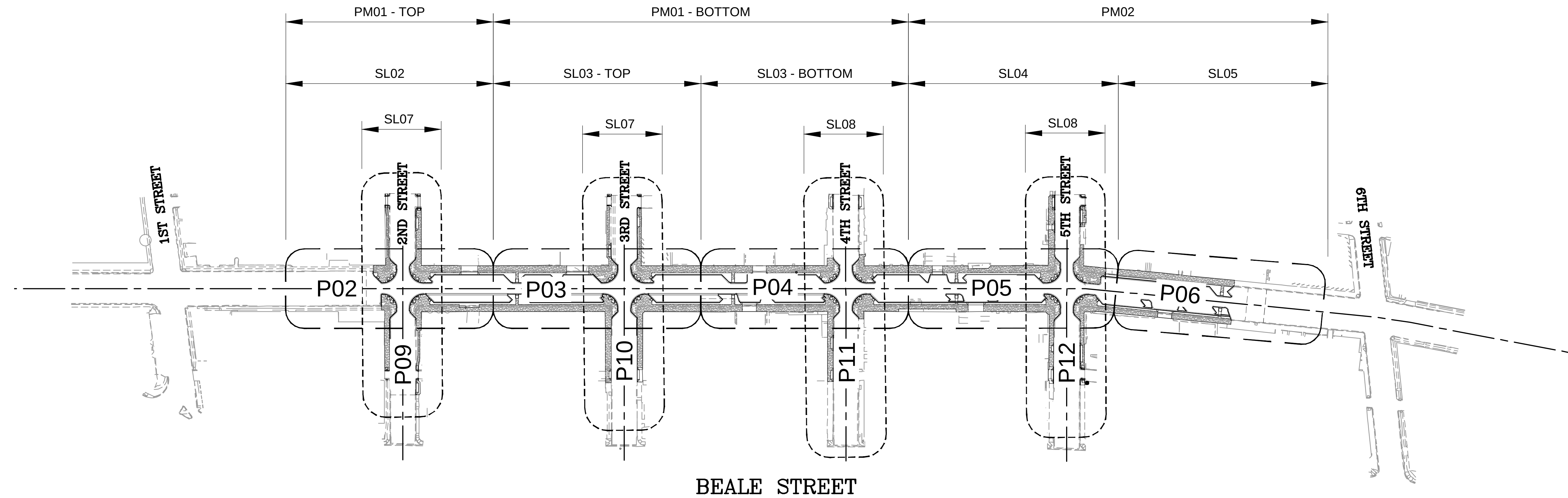
CONTACT ARIZONA 911 AT LEAST TWO FULL WORKING DAYS BEFORE YOU BEGIN CONSTRUCTION



CALL 811 OR VISIT ARIZONA911.COM



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N.T.S.

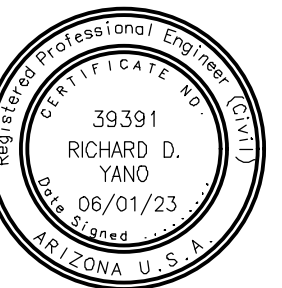
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**WSP USA Environment & Infrastructure, Inc.**  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100

## 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.

DRAWING NAME

GN02

SHEET NO. 3 of 52



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REVISIONS:

WSP USA Environment & Infrastructure, Inc.

4600 E. WASHINGTON STREET, SUITE 600

PHOENIX, ARIZONA 85034

PHONE: 602-733-6000

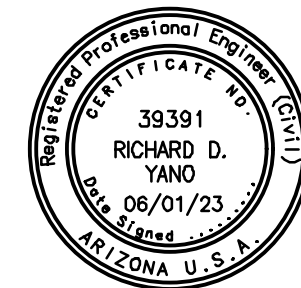
FAX: 602-733-6100



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



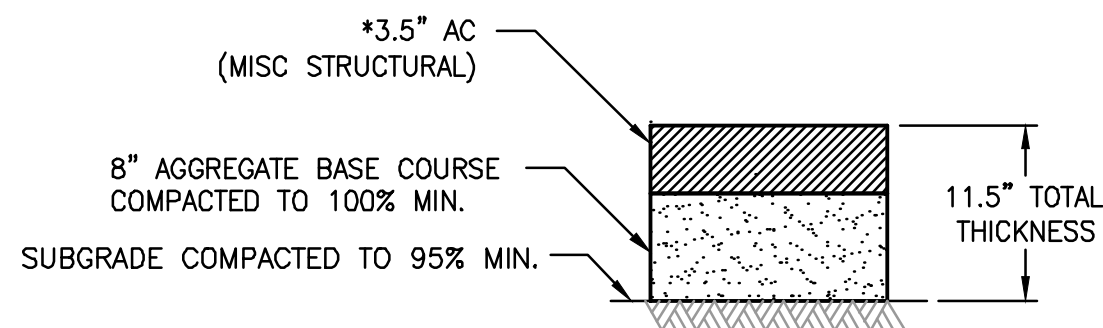
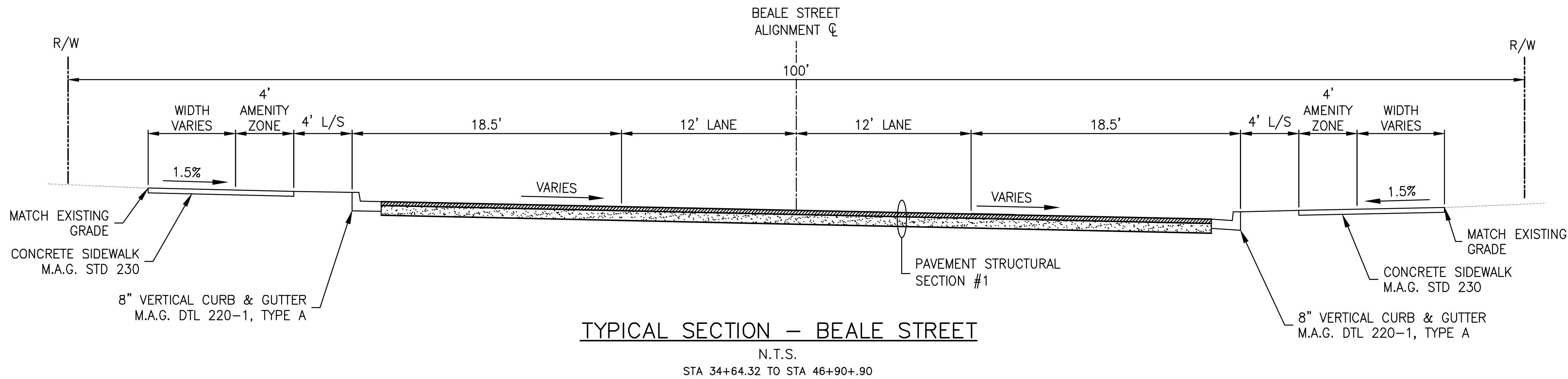
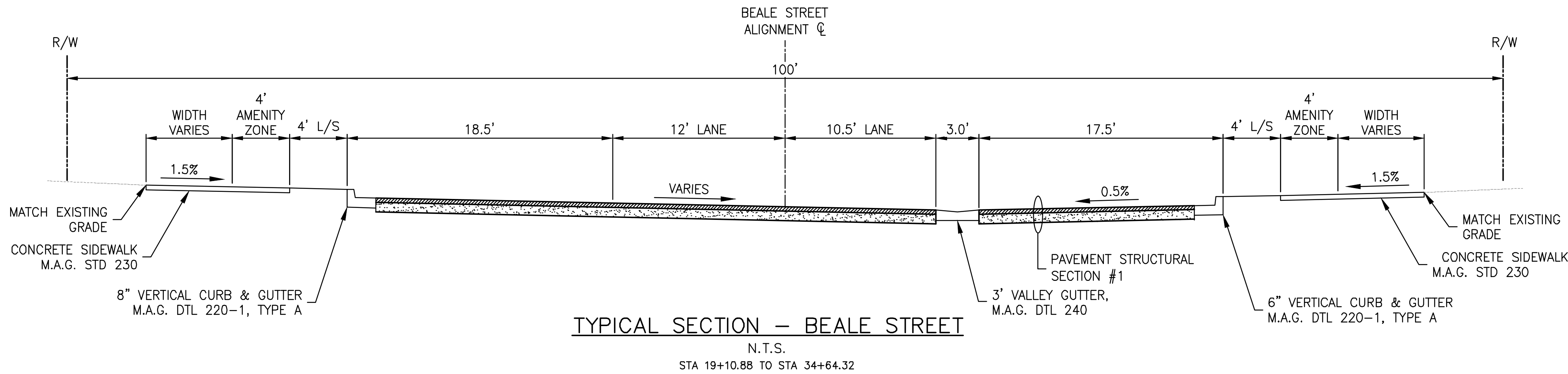
EXPIRES: 9/30/2024

PROJECT NO.  
3720205006

DRAWING NAME

GN03

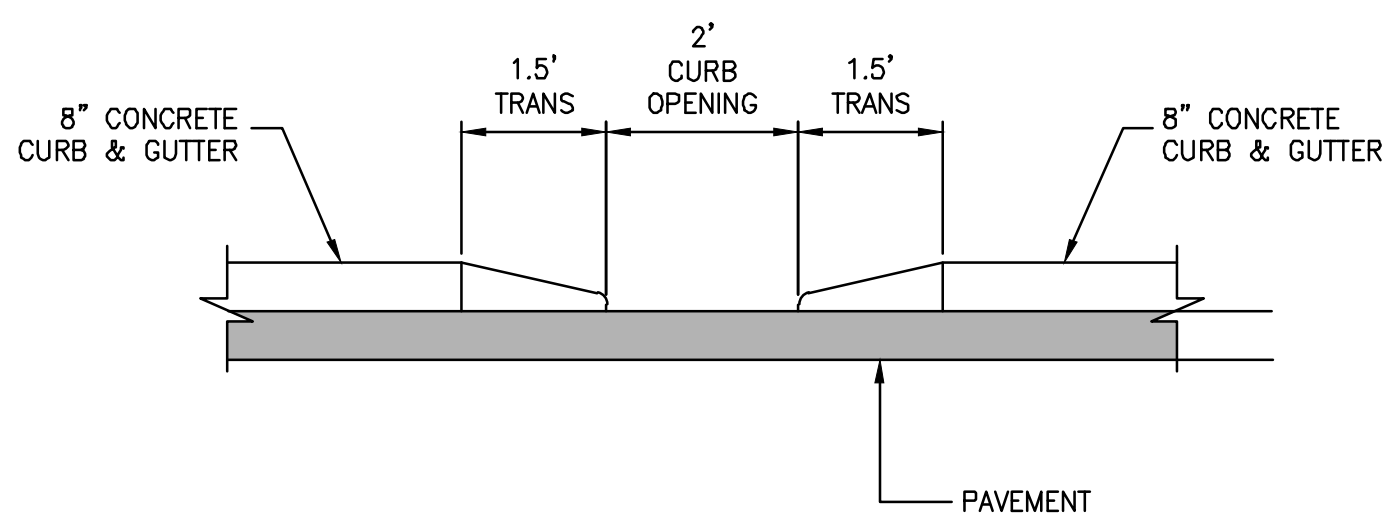
SHEET NO. 4 of 52



TOTAL THICKNESS = 11.5"

PAVEMENT STRUCTURAL SECTION NO. 1

N.T.S.



CURB OPENING DETAIL

N.T.S.



[illegible]

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KINGMAN, ARIZONA

1000

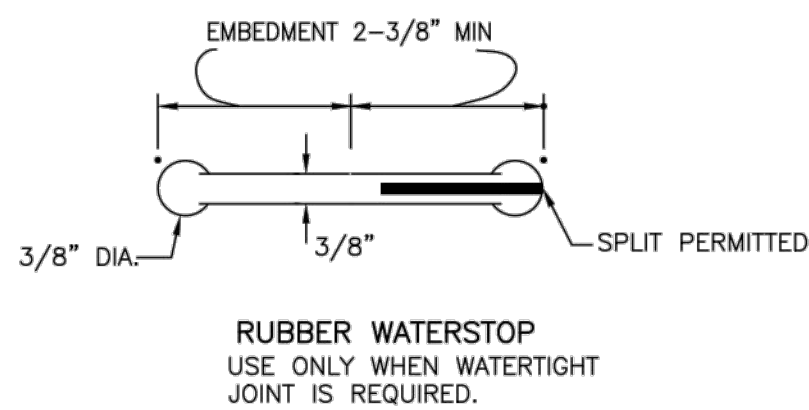
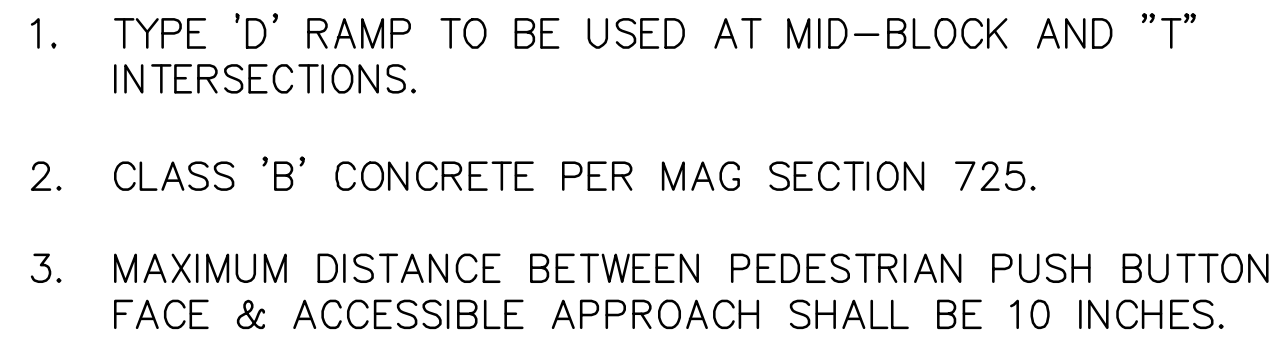
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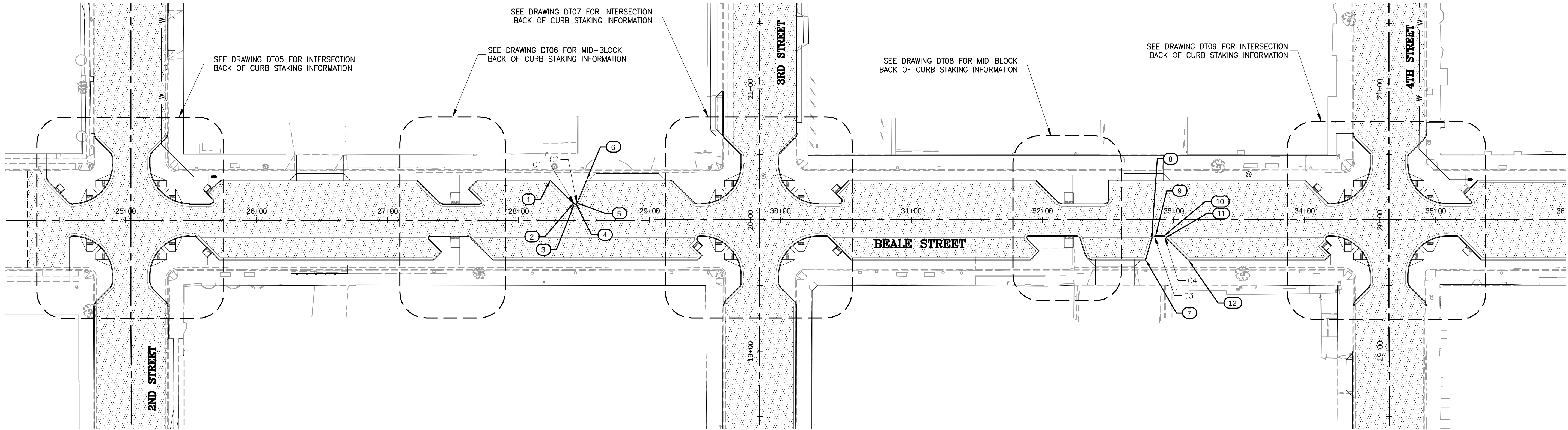


| WALL TYPE | HEIGHT | BASE   | CONCRETE CF/FT |
|-----------|--------|--------|----------------|
| A         | 1'-6"  | 1'-0"  | 1.50 cu ft.    |
|           | 2'-0"  | 1'-0"  | 2.00 cu ft.    |
|           | 3'-0"  | 2'-4"  | 4.99 cu ft.    |
| B         | 4'-0"  | 2'-10" | 7.66 cu ft.    |
|     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

GRAVITY RETAINING WALL DETAIL  
N.T.S.

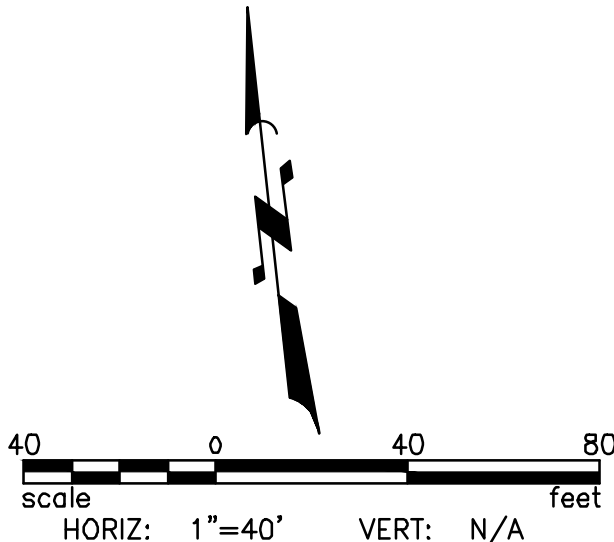


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| BACK OF CURB STAKING TABLE |                   |           |           |
|----------------------------|-------------------|-----------|-----------|
| PT #                       | ALIGNMENT/STATION | OFFSET    | ELEVATION |
| 1                          | BEALE ST/28+24.18 | 30.48, LT | 3344.20   |
| 2                          | BEALE ST/28+41.89 | 12.78, LT | 3342.94   |
| 3                          | BEALE ST/28+42.58 | 12.50, LT | 3342.93   |
| 4                          | BEALE ST/28+43.75 | 12.50, LT | 3342.93   |
| 5                          | BEALE ST/28+44.67 | 13.10, LT | 3342.95   |
| 6                          | BEALE ST/28+51.83 | 30.48, LT | 3344.06   |
| 7                          | BEALE ST/32+78.69 | 30.53, RT | 3346.49   |
| 8                          | BEALE ST/32+83.16 | 14.71, RT | 3345.98   |
| 9                          | BEALE ST/32+86.06 | 12.50, RT | 3345.97   |
| 10                         | BEALE ST/32+91.98 | 12.50, RT | 3346.06   |
| 11                         | BEALE ST/32+94.13 | 13.41, RT | 3346.14   |
| 12                         | BEALE ST/33+11.25 | 30.53, RT | 3347.05   |

| 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" |



REVISIONS:

WSP USA Environment & Infrastructure, Inc.

4600 E. WASHINGTON STREET, SUITE 600

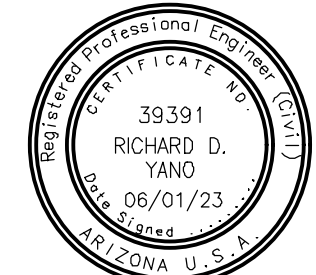
PHOENIX, ARIZONA 85034

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

DT02

SHEET NO. 6 of 52

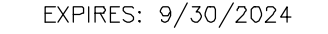


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**WSP**

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

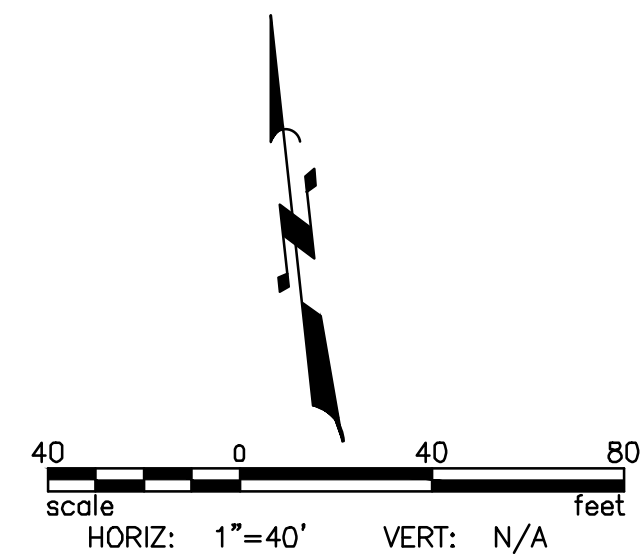
PROJECT: KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA



DT03  
SHEET NO. 7 of 52

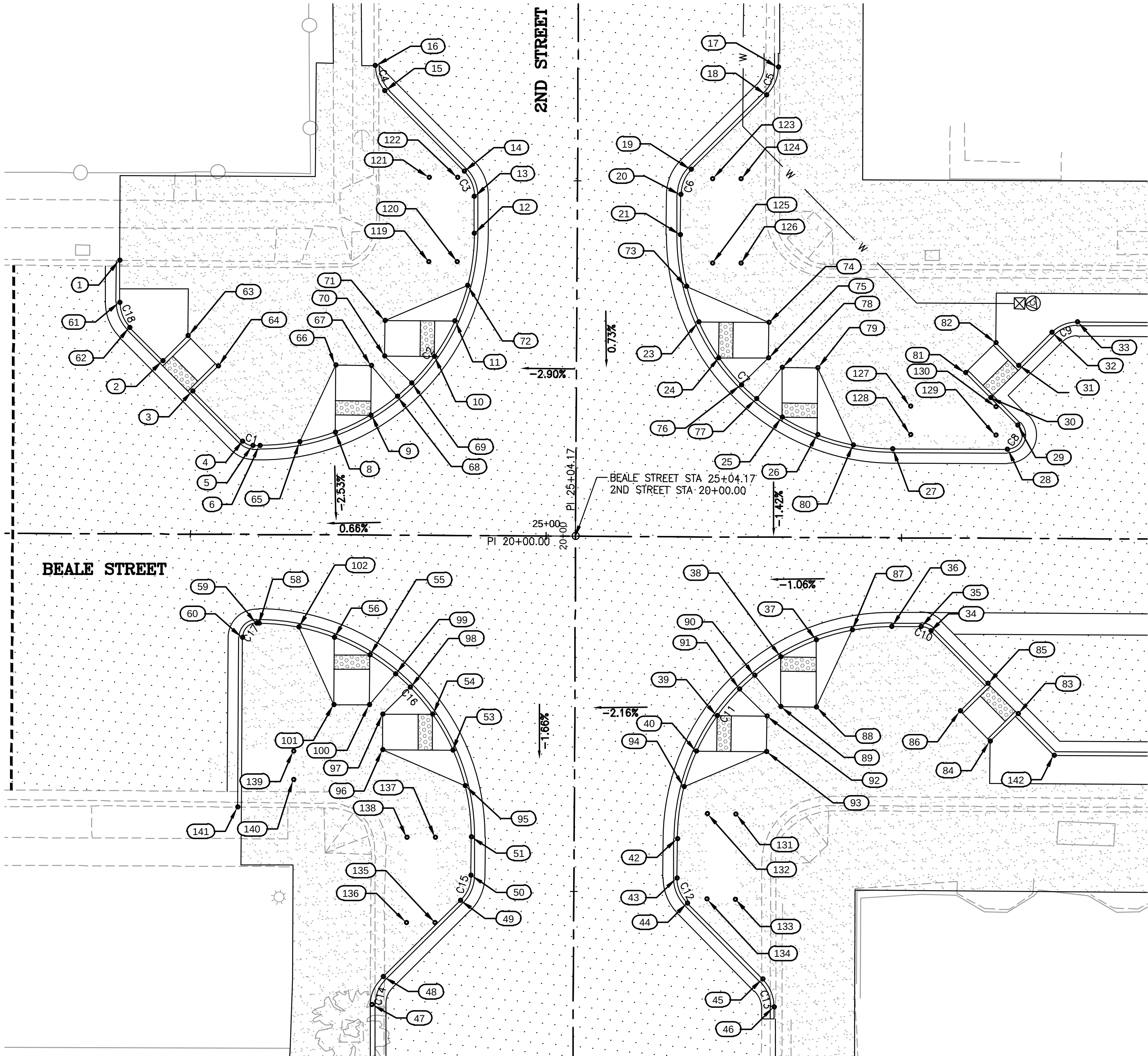


| CURVE DATA |        |        |            |
|------------|--------|--------|------------|
| CURVE #    | LENGTH | RADIUS | DELTA      |
| C1         | 2.06   | 1.00   | 118°10'23" |
| C2         | 1.33   | 1.00   | 76°09'03"  |
| C3         | 0.80   | 1.01   | 45°24'36"  |
| C4         | 2.41   | 1.00   | 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" |





File: C:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-DT05.dwg



**BEALE STREET AND 2ND STREET INTERSECTION**

| 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" |

| 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 | 3336.13   |
| 17                         | BEALE ST/25+32.31 | 66.15, LT | 3337.34   |
| 18                         | BEALE ST/25+30.70 | 62.24, LT | 3337.34   |
| 19                         | BEALE ST/25+20.13 | 51.67, LT | 3337.32   |
| 20                         | BEALE ST/25+18.67 | 48.13, LT | 3337.31   |
| 21                         | BEALE ST/25+18.67 | 42.50, LT | 3336.83   |
| 23                         | BEALE ST/25+21.31 | 30.20, LT | 3337.10   |
| 24                         | BEALE ST/25+24.16 | 25.20, LT | 3337.22   |
| 25                         | BEALE ST/25+33.09 | 16.86, LT | 3337.48   |

| BACK OF CURB STAKING TABLE |                   |           |           |
|----------------------------|-------------------|-----------|-----------|
| PT #                       | ALIGNMENT/STATION | OFFSET    | ELEVATION |
| 26                         | BEALE ST/25+38.09 | 14.43, LT | 3337.60   |
| 27                         | BEALE ST/25+48.67 | 12.50, LT | 3337.83   |
| 28                         | BEALE ST/25+64.82 | 12.50, LT | 3338.16   |
| 29                         | BEALE ST/25+66.24 | 15.91, LT | 3338.34   |
| 30                         | BEALE ST/25+62.41 | 19.74, LT | 3338.42   |
| 31                         | BEALE ST/25+66.30 | 24.34, LT | 3338.52   |
| 32                         | BEALE ST/25+71.00 | 29.04, LT | 3338.64   |
| 33                         | BEALE ST/25+74.53 | 30.50, LT | 3338.68   |
| 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   |
| 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 | 3334.61   |
| 48                         | BEALE ST/24+77.43 | 62.14, RT | 3334.66   |
| 49                         | BEALE ST/24+88.22 | 51.35, RT | 3334.90   |

| BACK OF CURB STAKING TABLE |                   |           |           |
|----------------------------|-------------------|-----------|-----------|
| PT #                       | ALIGNMENT/STATION | OFFSET    | ELEVATION |
| 75                         | BEALE ST/25+31.16 | 25.20, LT | 3337.47   |
| 76                         | BEALE ST/25+27.33 | 21.41, LT | 3337.33   |
| 77                         | BEALE ST/24+29.47 | 19.44, LT | 3337.39   |
| 78                         | BEALE ST/25+33.09 | 23.86, LT | 3337.52   |
| 79                         | BEALE ST/25+38.09 | 23.86, LT | 3337.67   |
| 80                         | BEALE ST/25+43.14 | 13.01, LT | 3337.71   |
| 81                         | BEALE ST/25+58.87 | 23.28, LT | 3338.32   |
| 82                         | BEALE ST/25+63.12 | 27.52, LT | 3338.43   |
| 83                         | BEALE ST/25+66.49 | 24.68, RT | 3337.74   |
| 84                         | BEALE ST/25+62.60 | 28.56, RT | 3337.68   |
| 85                         | BEALE ST/25+62.25 | 20.43, RT | 3337.59   |
| 86                         | BEALE ST/25+58.36 | 24.32, RT | 3337.54   |
| 87                         | BEALE ST/25+43.10 | 13.02, RT | 3337.07   |
| 88                         | BEALE ST/25+38.10 | 23.86, RT | 3337.12   |
| 89                         | BEALE ST/25+33.10 | 23.86, RT | 3337.03   |
| 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 | 3337.00   |
| 93                         | BEALE ST/25+31.17 | 30.19, RT | 3337.04   |
| 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 | 3335.23   |
| 97                         | BEALE ST/24+77.18 | 25.20, RT | 3335.33   |

| BACK OF CURB STAKING TABLE |                   |           |           |
|----------------------------|-------------------|-----------|-----------|
| PT #                       | ALIGNMENT/STATION | OFFSET    | ELEVATION |
| 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 | 3335.35   |
| 101                        | BEALE ST/24+70.28 | 23.88, RT | 3335.32   |
| 102                        | BEALE ST/24+65.28 | 13.03, RT | 3335.76   |
| 119                        | BEALE ST/24+83.31 | 38.51, LT | 3336.67   |
| 120                        | BEALE ST/24+87.31 | 38.51, LT | 3336.69   |
| 121                        | BEALE ST/24+83.31 | 50.39, LT | 3336.73   |
| 122                        | BEALE ST/24+87.31 | 50.39, LT | 3336.73   |
| 123                        | BEALE ST/25+23.18 | 50.38, LT | 3337.27   |
| 124                        | BEALE ST/25+27.18 | 50.38, LT | 3337.41   |
| 125                        | BEALE ST/25+23.17 | 38.51, LT | 3337.12   |
| 126                        | BEALE ST/25+27.17 | 38.51, LT | 3337.31   |
| 127                        | BEALE ST/25+51.17 | 18.51, LT | 3338.00   |
| 128                        | BEALE ST/25+51.17 | 14.51, LT | 3337.97   |
| 129                        | BEALE ST/25+63.17 | 14.50, LT | 3338.21   |
| 130                        | BEALE ST/25+63.17 | 18.50, LT | 3338.38   |
| 131                        | BEALE ST/25+26.88 | 38.99, RT | 3336.95   |
| 132                        | BEALE ST/25+22.88 | 38.99, RT | 3336.81   |
| 133                        | BEALE ST/25+26.88 | 50.99, RT | 3336.70   |
| 134                        | BEALE ST/25+22.88 | 50.99, RT | 3336.52   |
| 135                        | BEALE ST/24+84.66 | 54.49, RT | 3334.83   |
| 136                        | BEALE ST/24+80.66 | 54.49, RT | 3334.83   |

| BACK OF CURB STAKING TABLE |                   |           |           |
|----------------------------|-------------------|-----------|-----------|
| PT #                       | ALIGNMENT/STATION | OFFSET    | ELEVATION |
| 50                         | BEALE ST/24+89.68 | 47.81, RT | 3334.98   |
| 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+49.52 | 27.89, LT | 3336.21   |
| 64                         | BEALE ST/24+53.76 | 23.65, LT | 3336.27   |
| 65                         | BEALE ST/24+65.31 | 13.04, LT | 3336.56   |
| 66                         | BEALE ST/24+70.28 | 23.89, LT | 3336.47   |
| 67                         | BEALE ST/24+75.28 | 23.89, LT | 3336.53   |
| 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 | 3336.55   |
| 71                         | BEALE ST/24+77.17 | 30.19, LT | 3336.56   |
| 72                         | BEALE ST/24+88.76 | 35.19, LT | 3336.67   |
| 73                         | BEALE ST/25+19.57 | 35.20, LT | 3336.98   |
| 74                         | BEALE ST/25+31.16 | 30.20, LT | 3337.49   |

| BACK OF CURB STAKING TABLE |                   |           |           |
|----------------------------|-------------------|-----------|-----------|
| PT #                       | ALIGNMENT/STATION | OFFSET    | ELEVATION |
| 137                        | BEALE ST/24+84.66 | 42.49, RT | 3335.07   |
| 138                        | BEALE ST/24+80.66 | 42.49, RT | 3335.07   |
| 139                        | BEALE ST/24+64.67 | 30.49, RT | 3335.09   |
| 140                        | BEALE ST/24+64.66 | 34.49, RT | 3334.99   |
| 141                        | BEALE ST/24+56.86 | 38.37, RT | 3334.80   |
| 142                        | BEALE ST/25+71.60 | 30.50, RT | 3337.74   |

REVISIONS:

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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. 8 of 52



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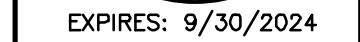
| CURVE TABLE |        |        |            |
|-------------|--------|--------|------------|
| CURVE #     | LENGTH | RADIUS | DELTA      |
| C5          | 2.36   | 3.00   | 45°00'00"  |
| C6          | 2.36   | 1.00   | 135°00'00" |
| C7          | 2.36   | 3.00   | 45°00'00"  |
| C8          | 2.36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

| BACK OF CURB STAKING TABLE |                       |           |           |
|----------------------------|-----------------------|-----------|-----------|
| PT #                       | ALIGNMENT/STATION     | OFFSET    | ELEVATION |
| 18                         | BEALE STREET/27+48.13 | 12.51, RT | 3341.06   |
| 19                         | BEALE STREET/27+48.65 | 12.51, RT | 3341.06   |
| 20                         | BEALE STREET/27+54.65 | 12.51, RT | 3341.16   |
| 21                         | BEALE STREET/27+55.13 | 12.51, RT | 3341.17   |
| 22                         | BEALE STREET/27+60.95 | 12.50, RT | 3341.30   |
| 23                         | BEALE STREET/27+63.09 | 13.39, RT | 3341.37   |
| 24                         | BEALE STREET/27+80.19 | 30.50, RT | 3342.30   |
| 25                         | BEALE STREET/27+54.65 | 34.50, RT | 3341.86   |
| 26                         | BEALE STREET/27+48.65 | 34.50, RT | 3341.76   |
| 31                         | BEALE STREET/27+48.14 | 20.99, LT | 3342.54   |
| 32                         | BEALE STREET/27+55.14 | 20.99, LT | 3342.64   |
| 33                         | BEALE STREET/27+48.19 | 21.02, RT | 3341.13   |
| 34                         | BEALE STREET/27+55.19 | 21.02, RT | 3341.25   |

PROJECT:

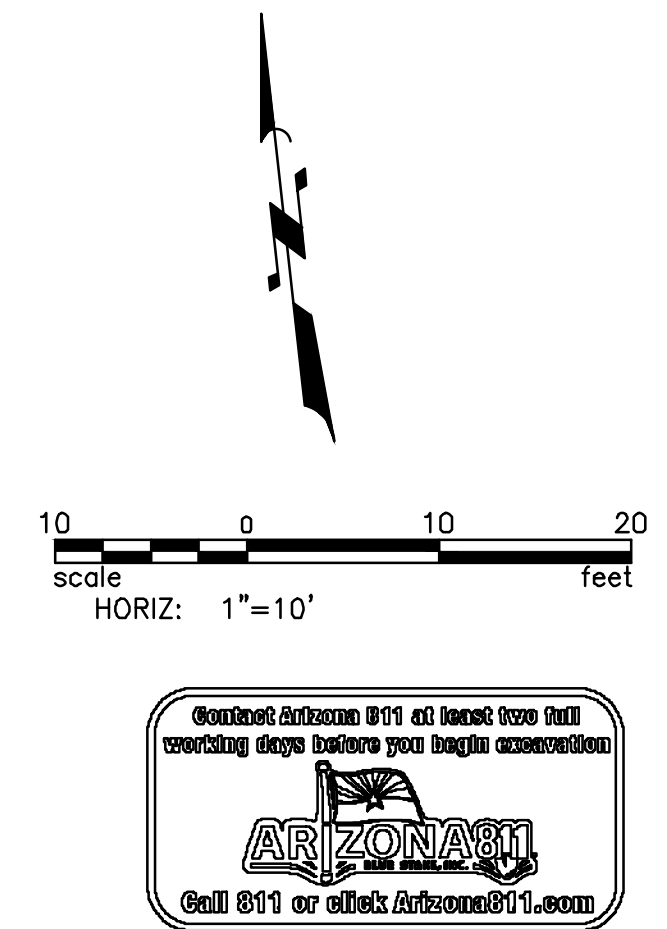
KINGMAN DOWNTOWN INFRASTRUCTURE  
BEALE ST - 1ST ST TO 6TH ST  
KINGMAN, ARIZONA

MID-BLOCK CROSSING DETAIL



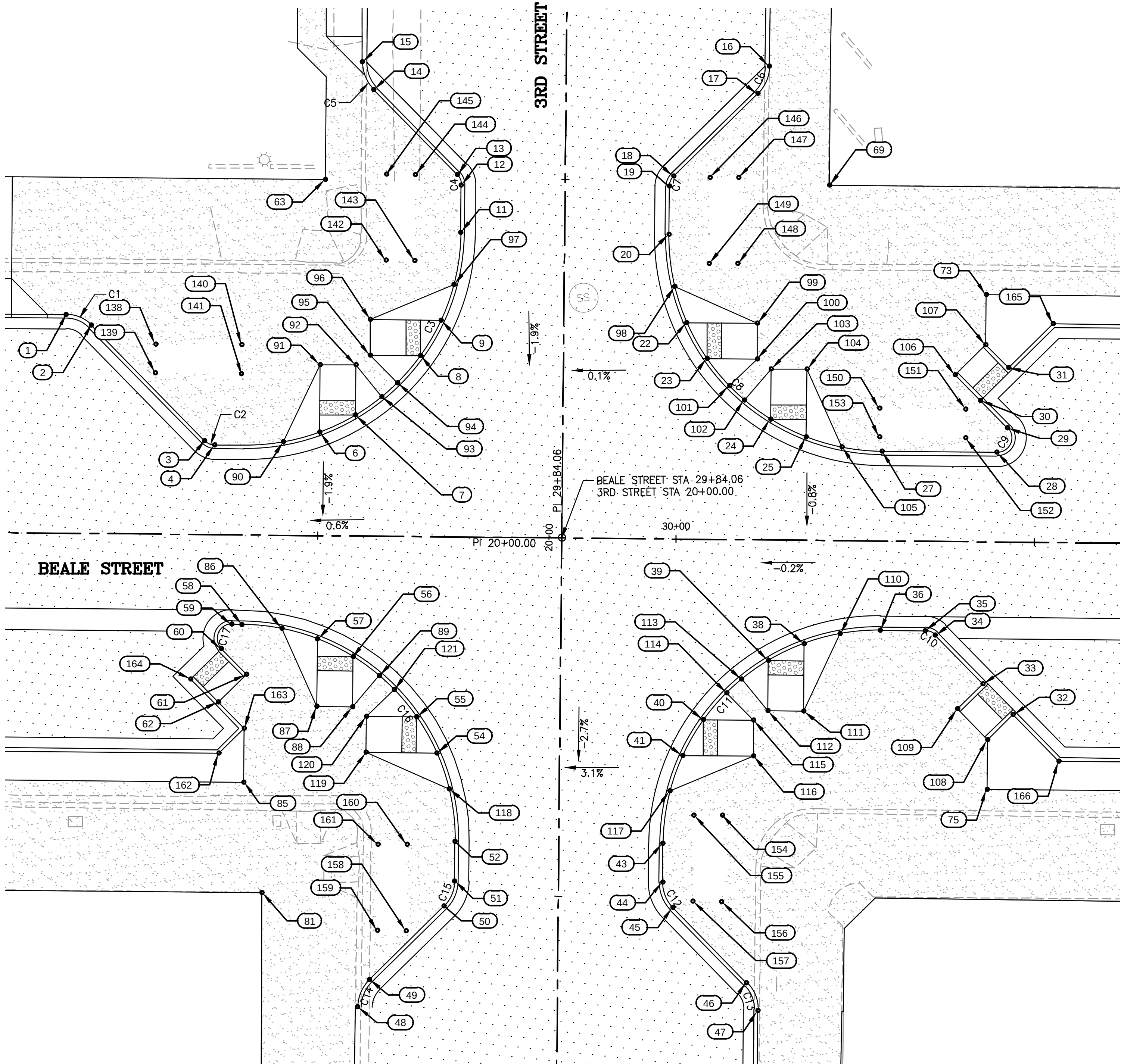
DRAWING NAME

SHEET NO. 9 of 52





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BEALE STREET AND 3RD STREET INTERSECTION

| 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" |

| 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 | 3343.32   |
| 3                          | BEALE ST/29+34.13 | 13.09, LT | 3342.98   |
| 4                          | BEALE ST/29+35.54 | 12.50, LT | 3342.93   |
| 6                          | BEALE ST/29+50.13 | 14.42, LT | 3342.98   |
| 7                          | BEALE ST/29+55.13 | 16.84, LT | 3343.03   |
| 8                          | BEALE ST/29+64.09 | 25.21, LT | 3343.16   |
| 9                          | BEALE ST/29+66.94 | 30.21, LT | 3343.22   |
| 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 | ???       |
| 16                         | BEALE ST/30+12.39 | 66.08, LT | 3342.99   |
| 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 | 3343.27   |
| 23                         | BEALE ST/30+04.06 | 25.20, LT | 3343.21   |
| 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 | 3343.67   |
| 32                         | BEALE ST/30+47.22 | 24.05, RT | 3342.19   |
| 33                         | BEALE ST/30+42.98 | 19.80, RT | 3342.11   |
| 34                         | BEALE ST/30+36.27 | 13.09, RT | 3341.98   |
| 35                         | BEALE ST/30+34.85 | 12.50, RT | 3341.95   |
| 36                         | BEALE ST/30+28.57 | 12.50, RT | 3341.91   |
| 38                         | BEALE ST/30+18.01 | 14.42, RT | 3341.73   |
| 39                         | BEALE ST/30+13.01 | 16.85, RT | 3341.65   |
| 40                         | BEALE ST/30+04.07 | 25.18, RT | 3341.45   |
| 41                         | BEALE ST/30+01.21 | 30.18, RT | 3341.36   |
| 43                         | BEALE ST/29+98.57 | 42.50, RT | 3341.15   |
| 44                         | BEALE ST/29+98.57 | 47.90, RT | 3341.37   |
| 45                         | BEALE ST/30+00.03 | 51.44, RT | 3341.25   |
| 46                         | BEALE ST/30+10.41 | 61.81, RT | 3340.96   |
| 47                         | BEALE ST/30+12.02 | 65.71, RT | 3340.25   |
| 48                         | BEALE ST/29+56.18 | 65.72, RT | ???       |
| 49                         | BEALE ST/29+57.79 | 61.86, RT | 3340.80   |
| 50                         | BEALE ST/29+68.10 | 51.54, RT | 3341.15   |
| 51                         | BEALE ST/29+69.57 | 48.01, RT | 3341.28   |
| 52                         | BEALE ST/29+69.57 | 42.50, RT | 3341.37   |

| BACK OF CURB STAKING TABLE |                   |           |           |
|----------------------------|-------------------|-----------|-----------|
| PT #                       | ALIGNMENT/STATION | OFFSET    | ELEVATION |
| 54                         | BEALE ST/29+66.92 | 30.18, RT | 3341.74   |
| 55                         | BEALE ST/29+64.06 | 25.18, RT | 3341.91   |
| 56                         | BEALE ST/29+55.13 | 16.85, RT | 3342.27   |
| 57                         | BEALE ST/29+50.13 | 14.42, RT | 3342.43   |
| 58                         | BEALE ST/29+39.57 | 12.50, RT | 3342.75   |
| 59                         | BEALE ST/29+38.13 | 12.50, RT | 3342.75   |
| 60                         | BEALE ST/29+36.72 | 15.91, RT | 3342.24   |
| 61                         | BEALE ST/29+40.28 | 19.47, RT | 3342.39   |
| 62                         | BEALE ST/29+36.39 | 23.36, RT | 3342.25   |
| 63                         | BEALE ST/29+50.61 | 49.67, LT | 3343.52   |
| 69                         | BEALE ST/30+20.89 | 49.55, LT | ???       |
| 73                         | BEALE ST/30+42.94 | 34.50, LT | 3343.76   |
| 75                         | BEALE ST/30+43.69 | 34.50, RT | 3342.12   |
| 81                         | BEALE ST/29+42.70 | 49.87, RT | ???       |
| 85                         | BEALE ST/29+40.01 | 34.50, RT | 3342.00   |
| 86                         | BEALE ST/29+45.13 | 13.02, RT | 3342.59   |
| 87                         | BEALE ST/29+50.13 | 23.85, RT | 3342.17   |
| 88                         | BEALE ST/29+55.13 | 23.85, RT | 3342.09   |
| 89                         | BEALE ST/29+58.78 | 19.46, RT | 3342.14   |
| 90                         | BEALE ST/29+45.13 | 13.02, LT | 3342.93   |
| 91                         | BEALE ST/29+50.13 | 23.85, LT | 3343.10   |
| 92                         | BEALE ST/29+55.13 | 23.84, LT | 3343.12   |
| 93                         | BEALE ST/29+58.79 | 19.46, LT | 3343.08   |

| BACK OF CURB STAKING TABLE |                   |           |           |
|----------------------------|-------------------|-----------|-----------|
| PT #                       | ALIGNMENT/STATION | OFFSET    | ELEVATION |
| 94                         | BEALE ST/29+60.93 | 21.43, LT | 3343.11   |
| 95                         | BEALE ST/29+57.09 | 25.21, LT | 3343.15   |
| 96                         | BEALE ST/29+57.09 | 30.21, LT | 3343.22   |
| 97                         | BEALE ST/29+68.68 | 35.21, LT | 3343.27   |
| 98                         | BEALE ST/29+99.49 | 35.21, LT | 3343.32   |
| 99                         | BEALE ST/30+11.06 | 30.20, LT | 3343.31   |
| 100                        | BEALE ST/30+11.06 | 25.20, LT | 3343.23   |
| 101                        | BEALE ST/30+07.23 | 21.42, LT | 3343.16   |
| 102                        | BEALE ST/30+09.35 | 19.47, LT | 3343.13   |
| 103                        | BEALE ST/30+13.01 | 23.85, LT | 3343.21   |
| 104                        | BEALE ST/30+18.01 | 23.85, LT | 3343.22   |
| 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 | 3343.68   |
| 108                        | BEALE ST/30+43.69 | 27.58, RT | 3342.12   |
| 109                        | BEALE ST/30+39.45 | 23.34, RT | 3342.04   |
| 110                        | BEALE ST/30+23.01 | 13.01, RT | 3341.82   |
| 111                        | BEALE ST/30+18.01 | 23.85, RT | 3341.72   |
| 112                        | BEALE ST/30+13.01 | 23.85, RT | 3341.63   |
| 113                        | BEALE ST/30+09.35 | 19.47, RT | 3341.57   |
| 114                        | BEALE ST/30+07.25 | 21.40, RT | 3341.53   |
| 115                        | BEALE ST/30+11.07 | 25.18, RT | 3341.59   |
| 116                        | BEALE ST/30+11.07 | 30.18, RT | 3341.57   |

| BACK OF CURB STAKING TABLE |                   |           |           |
|----------------------------|-------------------|-----------|-----------|
| PT #                       | ALIGNMENT/STATION | OFFSET    | ELEVATION |
| 117                        | BEALE ST/29+99.46 | 35.18, RT | 3341.27   |
| 118                        | BEALE ST/29+68.66 | 35.18, RT | 3341.59   |
| 119                        | BEALE ST/29+57.06 | 30.18, RT | 3341.90   |
| 120                        | BEALE ST/29+57.06 | 25.18, RT | 3342.03   |
| 121                        | BEALE ST/29+60.88 | 21.39, RT | 3342.06   |
| 138                        | BEALE ST/29+27.16 | 26.49, LT | 3343.18   |
| 139                        | BEALE ST/29+27.16 | 22.49, LT | 3343.14   |
| 140                        | BEALE ST/29+39.16 | 26.49, LT | 3343.13   |
| 141                        | BEALE ST/29+39.16 | 22.49, LT | 3343.09   |
| 142                        | BEALE ST/29+59.16 | 38.49, LT | 3343.35   |
| 143                        | BEALE ST/29+63.16 | 38.49, LT | 3343.33   |
| 144                        | BEALE ST/29+63.14 | 50.49, LT | 3343.52   |
| 145                        | BEALE ST/29+59.16 | 50.49, LT | 3343.53   |
| 146                        | BEALE ST/30+04.23 | 50.48, LT | 3343.51   |
| 147                        | BEALE ST/30+08.23 | 50.48, LT | 3343.54   |
| 148                        | BEALE ST/30+08.22 | 38.48, LT | 3343.42   |
| 149                        | BEALE ST/30+04.23 | 38.49, LT | 3343.39   |
| 150                        | BEALE ST/30+28.22 | 18.49, LT | 3343.20   |
| 151                        | BEALE ST/30+40.22 | 18.49, LT | 3343.48   |
| 152                        | BEALE ST/30+40.22 | 14.49, LT | 3343.29   |
| 153                        | BEALE ST/30+28.22 | 14.49, LT | 3343.11   |
| 154                        | BEALE ST/30+06.85 | 38.51, RT | 3341.42   |
| 155                        | BEALE ST/30+02.84 | 38.51, RT | 3341.32   |

| BACK OF CURB STAKING TABLE |                   |           |           |
|----------------------------|-------------------|-----------|-----------|
| PT #                       | ALIGNMENT/STATION | OFFSET    | ELEVATION |
| 156                        | BEALE ST/30+06.82 | 50.51, RT | 3341.29   |
| 157                        | BEALE ST/30+02.84 | 50.51, RT | 3341.19   |
| 158                        | BEALE ST/29+62.86 | 55.01, RT | 3341.06   |
| 159                        | BEALE ST/29+58.86 | 55.01, RT | 3341.13   |
| 160                        | BEALE ST/29+62.86 | 42.99, RT | 3341.48   |
| 161                        | BEALE ST/29+58.86 | 43.01, RT | 3341.56   |
| 162                        | BEALE ST/29+36.50 | 30.50, RT | 3341.69   |
| 163                        | BEALE ST/29+40.01 | 26.98, RT | 3342.26   |
| 164                        | BEALE ST/29+32.50 | 20.18, RT | 3342.25   |
| 165                        | BEALE ST/30+52.31 | 30.50, LT | 3343.77   |
| 166                        | BEALE ST/30+53.68 | 30.50, RT | 3342.22   |

REVISIONS:

WSP USA Environment & Infrastructure, Inc.

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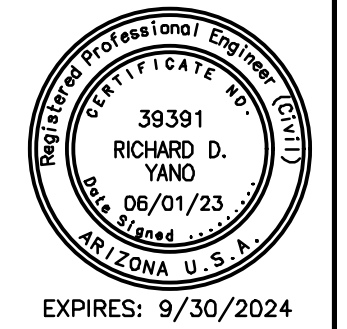
INTERSECTION DETAIL

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

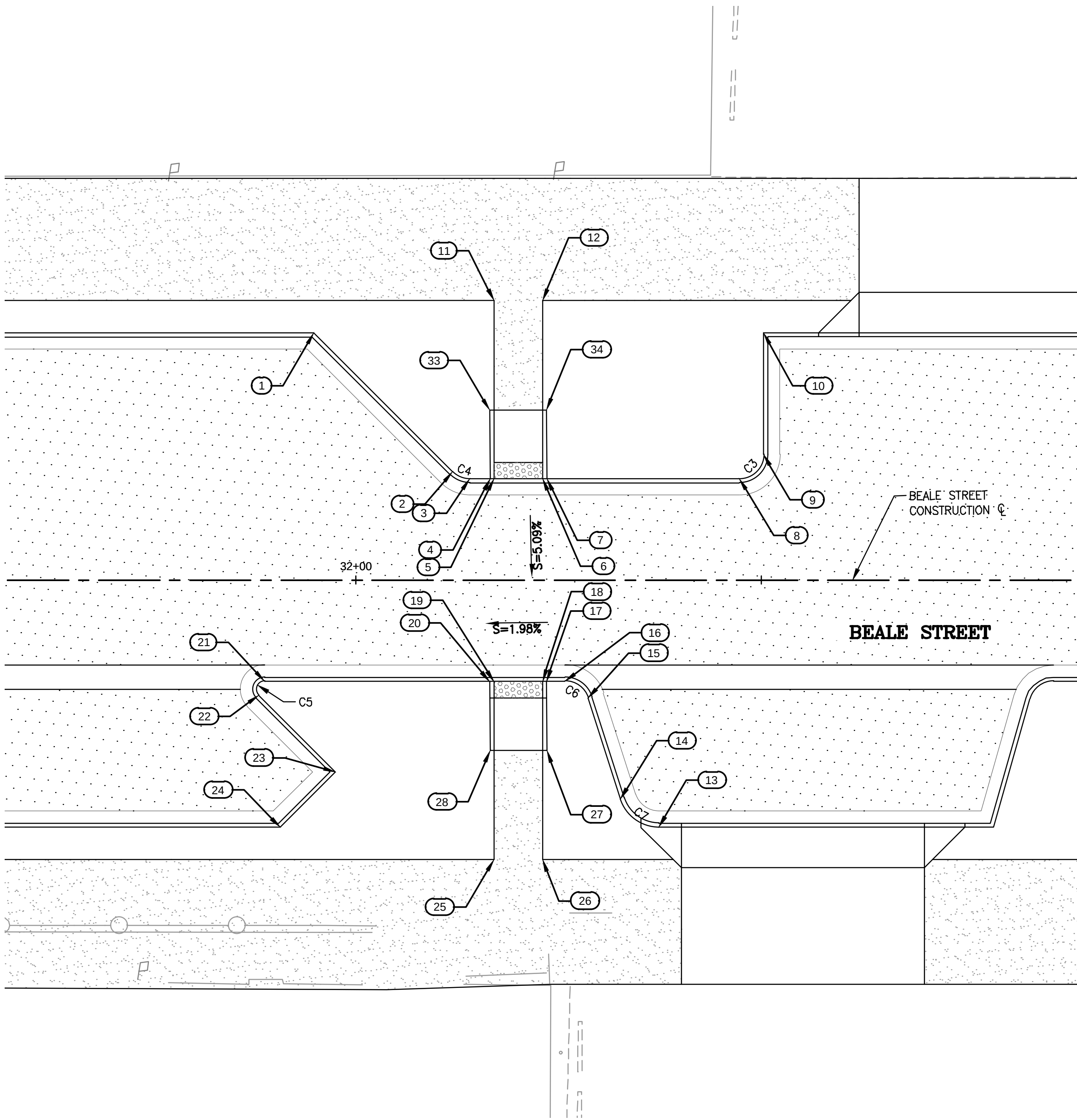
DRAWING NAME

DT07

SHEET NO. 10 of 52



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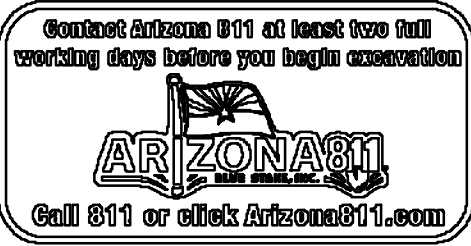
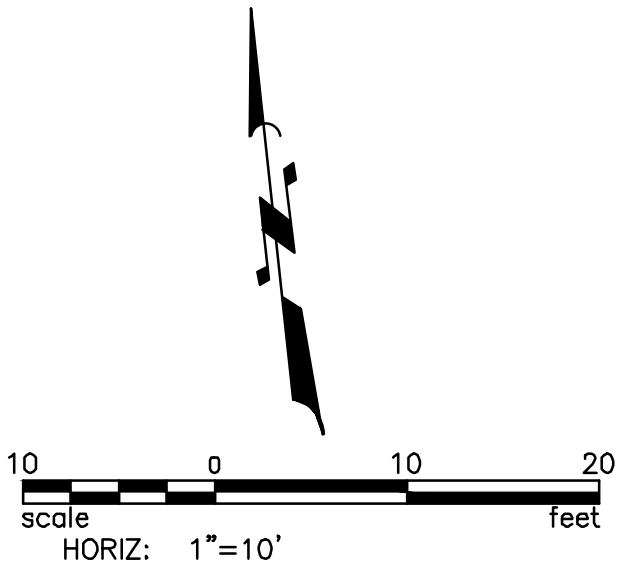


MID-BLOCK CROSSING BETWEEN 3RD STREET AND 4TH STREET

| 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 | 3345.18   |
| 3                          | BEALE ST/32+14.04 | 12.50, LT | 3345.19   |
| 4                          | BEALE ST/32+16.55 | 12.50, LT | 3345.30   |
| 5                          | BEALE ST/32+17.01 | 12.50, LT | 3345.31   |
| 6                          | BEALE ST/32+23.01 | 12.50, LT | 3345.48   |
| 7                          | BEALE ST/32+23.55 | 12.50, LT | 3345.51   |
| 8                          | BEALE ST/32+47.30 | 12.50, LT | 3346.06   |
| 9                          | BEALE ST/32+50.30 | 15.50, LT | 3346.24   |
| 10                         | BEALE ST/32+50.30 | 30.50, LT | 3347.47   |
| 11                         | BEALE ST/32+17.01 | 34.50, LT | 3346.77   |
| 12                         | BEALE ST/32+23.01 | 34.50, LT | 3347.09   |
| 13                         | BEALE ST/32+37.38 | 30.50, RT | 3345.30   |
| 14                         | BEALE ST/32+32.62 | 27.03, RT | 3344.63   |
| 15                         | BEALE ST/32+28.62 | 14.58, RT | 3344.44   |
| 16                         | BEALE ST/32+25.76 | 12.50, RT | 3344.29   |
| 17                         | BEALE ST/32+23.49 | 12.53, RT | 3344.25   |

| BACK OF CURB STAKING TABLE |                   |           |           |
|----------------------------|-------------------|-----------|-----------|
| PT #                       | ALIGNMENT/STATION | OFFSET    | ELEVATION |
| 18                         | BEALE ST/32+23.00 | 12.53, RT | 3344.24   |
| 19                         | BEALE ST/32+17.00 | 12.53, RT | 3344.15   |
| 20                         | BEALE ST/32+16.49 | 12.53, RT | 3344.14   |
| 21                         | BEALE ST/31+88.70 | 12.50, RT | 3343.67   |
| 22                         | BEALE ST/31+88.00 | 14.21, RT | 3343.71   |
| 23                         | BEALE ST/31+97.45 | 23.66, RT | 3343.94   |
| 24                         | BEALE ST/31+90.62 | 30.50, RT | 3344.34   |
| 25                         | BEALE ST/32+17.00 | 34.50, RT | 3344.82   |
| 26                         | BEALE ST/32+23.00 | 34.50, RT | 3344.91   |
| 27                         | BEALE ST/32+23.54 | 21.03, RT | 3344.34   |
| 28                         | BEALE ST/32+16.54 | 21.03, RT | 3344.23   |
| 33                         | BEALE ST/32+16.49 | 20.97, LT | 3345.70   |
| 34                         | BEALE ST/32+23.50 | 20.98, LT | 3345.97   |

| 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: |  |
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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

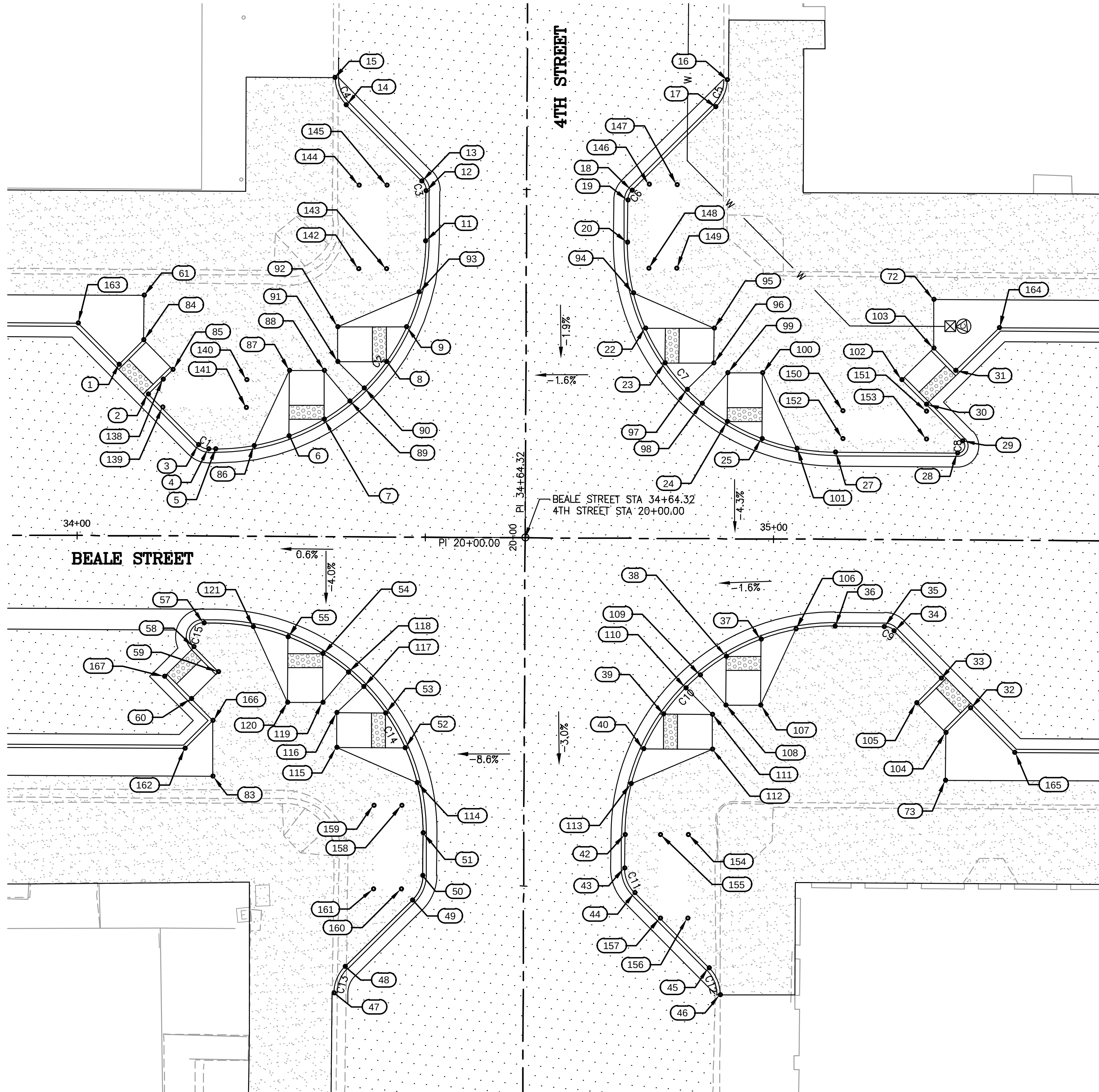


PROJECT NO.  
3720205006

DRAWING NAME  
DT08  
SHEET NO. 11 of 52



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BEALE STREET AND 4TH STREET INTERSECTION

| CURVE TABLE |        |        |            |
|-------------|--------|--------|------------|
| 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 TABLE |        |        |            |
|-------------|--------|--------|------------|
| 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 | 3350.48   |
| 2                          | BEALE ST/34+10.12 | 20.35, LT | 3350.54   |
| 3                          | BEALE ST/34+17.38 | 13.09, LT | 3350.64   |
| 4                          | BEALE ST/34+18.79 | 12.50, LT | 3350.67   |
| 5                          | BEALE ST/34+19.79 | 12.50, LT | 3350.68   |
| 6                          | BEALE ST/34+30.37 | 14.43, LT | 3350.85   |
| 7                          | BEALE ST/34+35.37 | 16.86, LT | 3350.94   |
| 8                          | BEALE ST/34+44.27 | 25.16, LT | 3351.13   |
| 9                          | BEALE ST/34+47.14 | 30.16, LT | 3351.22   |
| 11                         | BEALE ST/34+49.79 | 42.52, LT | 3351.42   |
| 12                         | BEALE ST/34+49.79 | 49.70, LT | 3351.53   |
| 13                         | BEALE ST/34+49.20 | 51.11, LT | 3351.58   |
| 14                         | BEALE ST/34+38.30 | 62.01, LT | 3351.81   |
| 15                         | BEALE ST/34+36.69 | 65.91, LT | 3351.20   |
| 16                         | BEALE ST/34+92.98 | 65.87, LT | 3351.85   |
| 17                         | BEALE ST/34+91.37 | 61.98, LT | 3352.53   |
| 18                         | BEALE ST/34+79.37 | 49.98, LT | 3352.58   |
| 19                         | BEALE ST/34+78.79 | 48.56, LT | 3352.54   |
| 20                         | BEALE ST/34+78.79 | 42.48, LT | 3352.38   |
| 22                         | BEALE ST/34+81.43 | 30.19, LT | 3352.33   |
| 23                         | BEALE ST/34+84.29 | 25.19, LT | 3352.30   |
| 24                         | BEALE ST/34+93.27 | 16.83, LT | 3352.25   |
| 25                         | BEALE ST/34+98.27 | 14.41, LT | 3352.23   |

| BACK OF CURB STAKING TABLE |                   |           |           |
|----------------------------|-------------------|-----------|-----------|
| PT #                       | ALIGNMENT/STATION | OFFSET    | ELEVATION |
| 27                         | BEALE ST/35+08.79 | 12.50, LT | 3352.18   |
| 28                         | BEALE ST/35+26.32 | 12.50, LT | 3352.51   |
| 29                         | BEALE ST/35+27.03 | 14.21, LT | 3352.56   |
| 30                         | BEALE ST/35+21.82 | 19.41, LT | 3352.52   |
| 31                         | BEALE ST/35+26.01 | 24.31, LT | 3352.61   |
| 32                         | BEALE ST/35+28.39 | 24.13, RT | 3351.10   |
| 33                         | BEALE ST/35+24.15 | 19.88, RT | 3351.30   |
| 34                         | BEALE ST/35+17.35 | 13.09, RT | 3351.61   |
| 35                         | BEALE ST/35+15.93 | 12.50, RT | 3351.61   |
| 36                         | BEALE ST/35+08.86 | 12.50, RT | 3351.50   |
| 37                         | BEALE ST/34+98.27 | 14.43, RT | 3351.14   |
| 38                         | BEALE ST/34+93.27 | 16.87, RT | 3350.96   |
| 39                         | BEALE ST/34+84.33 | 25.23, RT | 3350.55   |
| 40                         | BEALE ST/34+81.48 | 30.23, RT | 3350.36   |
| 42                         | BEALE ST/34+78.86 | 42.53, RT | 3349.93   |
| 43                         | BEALE ST/34+78.87 | 47.38, RT | 3349.76   |
| 44                         | BEALE ST/34+80.33 | 50.92, RT | 3349.43   |
| 45                         | BEALE ST/34+91.03 | 61.61, RT | 3348.71   |
| 46                         | BEALE ST/34+92.64 | 65.47, RT | 3348.06   |
| 47                         | BEALE ST/34+37.21 | 65.52, RT | 3348.12   |
| 48                         | BEALE ST/34+38.82 | 61.68, RT | 3348.18   |
| 49                         | BEALE ST/34+48.40 | 52.09, RT | 3348.52   |
| 50                         | BEALE ST/34+49.87 | 48.55, RT | 3348.65   |

| BACK OF CURB STAKING TABLE |                   |           |           |
|----------------------------|-------------------|-----------|-----------|
| PT #                       | ALIGNMENT/STATION | OFFSET    | ELEVATION |
| 51                         | BEALE ST/34+49.86 | 42.47, RT | 3348.80   |
| 52                         | BEALE ST/34+47.25 | 30.26, RT | 3349.14   |
| 53                         | BEALE ST/34+44.41 | 25.26, RT | 3349.29   |
| 54                         | BEALE ST/34+35.37 | 16.82, RT | 3349.62   |
| 55                         | BEALE ST/34+30.37 | 14.40, RT | 3349.76   |
| 57                         | BEALE ST/34+18.25 | 12.50, RT | 3350.09   |
| 58                         | BEALE ST/34+16.84 | 15.91, RT | 3350.13   |
| 59                         | BEALE ST/34+20.41 | 19.49, RT | 3349.81   |
| 60                         | BEALE ST/34+16.52 | 23.37, RT | 3349.74   |
| 61                         | BEALE ST/34+09.41 | 34.50, LT | 3350.67   |
| 72                         | BEALE ST/35+22.83 | 34.50, LT | 3352.70   |
| 73                         | BEALE ST/35+24.85 | 34.50, RT | 3350.49   |
| 83                         | BEALE ST/34+19.65 | 34.50, RT | 3349.27   |
| 84                         | BEALE ST/34+09.41 | 28.13, LT | 3350.59   |
| 85                         | BEALE ST/34+13.65 | 23.89, LT | 3350.63   |
| 86                         | BEALE ST/34+25.37 | 13.02, LT | 3350.77   |
| 87                         | BEALE ST/34+30.37 | 23.86, LT | 3350.93   |
| 88                         | BEALE ST/34+35.37 | 23.86, LT | 3351.00   |
| 89                         | BEALE ST/34+39.03 | 19.48, LT | 3351.01   |
| 90                         | BEALE ST/34+41.09 | 21.37, LT | 3351.06   |
| 91                         | BEALE ST/34+37.27 | 25.15, LT | 3351.04   |
| 92                         | BEALE ST/34+37.27 | 30.15, LT | 3351.08   |
| 93                         | BEALE ST/34+48.88 | 35.16, LT | 3351.31   |

| BACK OF CURB STAKING TABLE |                   |           |           |
|----------------------------|-------------------|-----------|-----------|
| PT #                       | ALIGNMENT/STATION | OFFSET    | ELEVATION |
| 94                         | BEALE ST/34+79.70 | 35.19, LT | 3352.35   |
| 95                         | BEALE ST/34+91.28 | 30.20, LT | 3352.40   |
| 96                         | BEALE ST/34+91.29 | 25.20, LT | 3352.34   |
| 97                         | BEALE ST/34+87.46 | 21.41, LT | 3352.28   |
| 98                         | BEALE ST/34+89.61 | 19.43, LT | 3352.27   |
| 99                         | BEALE ST/34+93.27 | 23.83, LT | 3352.33   |
| 100                        | BEALE ST/34+98.27 | 23.83, LT | 3352.35   |
| 101                        | BEALE ST/35+03.27 | 13.01, LT | 3352.20   |
| 102                        | BEALE ST/35+18.29 | 22.95, LT | 3352.51   |
| 103                        | BEALE ST/35+22.83 | 27.49, LT | 3352.61   |
| 104                        | BEALE ST/35+24.85 | 27.66, RT | 3350.88   |
| 105                        | BEALE ST/35+20.61 | 23.42, RT | 3351.08   |
| 106                        | BEALE ST/35+03.27 | 12.91, RT | 3351.32   |
| 107                        | BEALE ST/34+98.27 | 23.87, RT | 3350.74   |
| 108                        | BEALE ST/34+93.27 | 23.87, RT | 3350.67   |
| 109                        | BEALE ST/34+89.58 | 19.59, RT | 3350.81   |
| 110                        | BEALE ST/34+87.51 | 21.44, RT | 3350.71   |
| 111                        | BEALE ST/34+91.33 | 25.22, RT | 3350.58   |
| 112                        | BEALE ST/34+91.34 | 30.22, RT | 3350.34   |
| 113                        | BEALE ST/34+79.74 | 35.23, RT | 3350.18   |
| 114                        | BEALE ST/34+48.97 | 35.26, RT | 3349.00   |
| 115                        | BEALE ST/34+37.42 | 30.27, RT | 3349.28   |
| 116                        | BEALE ST/34+37.41 | 25.27, RT | 3349.37   |

| BACK OF CURB STAKING TABLE |                   |           |           |
|----------------------------|-------------------|-----------|-----------|
| PT #                       | ALIGNMENT/STATION | OFFSET    | ELEVATION |
| 117                        | BEALE ST/34+41.27 | 21.48, RT | 3349.42   |
| 118                        | BEALE ST/34+39.02 | 19.42, RT | 3349.50   |
| 119                        | BEALE ST/34+35.37 | 23.82, RT | 3349.43   |
| 120                        | BEALE ST/34+30.37 | 23.82, RT | 3349.49   |
| 121                        | BEALE ST/34+25.37 | 13.01, RT | 3349.90   |
| 138                        | BEALE ST/34+12.21 | 22.48, LT | 3350.59   |
| 139                        | BEALE ST/34+12.21 | 18.48, LT | 3350.57   |
| 140                        | BEALE ST/34+24.21 | 22.47, LT | 3350.82   |
| 141                        | BEALE ST/34+24.21 | 18.47, LT | 3350.78   |
| 142                        | BEALE ST/34+40.21 | 38.47, LT | 3351.20   |
| 143                        | BEALE ST/34+44.21 | 38.47, LT | 3351.27   |
| 144                        | BEALE ST/34+40.21 | 50.47, LT | 3351.41   |
| 145                        | BEALE ST/34+44.21 | 50.47, LT | 3351.50   |
| 146                        | BEALE ST/34+81.84 | 50.79, LT | 3352.53   |
| 147                        | BEALE ST/34+85.84 | 50.79, LT | 3352.56   |
| 148                        | BEALE ST/34+81.84 | 38.79, LT | 3352.39   |
| 149                        | BEALE ST/34+85.84 | 38.80, LT | 3352.43   |
| 150                        | BEALE ST/35+09.84 | 18.47, LT | 3352.35   |
| 151                        | BEALE ST/35+21.84 | 18.47, LT | 3352.50   |
| 152                        | BEALE ST/35+09.84 | 14.47, LT | 3352.27   |
| 153                        | BEALE ST/35+21.84 | 14.47, LT | 3352.45   |
| 154                        | BEALE ST/34+87.98 | 42.52, RT | 3349.71   |
| 155                        | BEALE ST/34+83.98 | 42.52, RT | 3349.74   |

| BACK OF CURB STAKING TABLE |                   |           |           |
|----------------------------|-------------------|-----------|-----------|
| PT #                       | ALIGNMENT/STATION | OFFSET    | ELEVATION |
| 156                        | BEALE ST/34+87.93 | 54.52, RT | 3349.15   |
| 157                        | BEALE ST/34+83.98 | 54.52, RT | 3349.19   |
| 158                        | BEALE ST/34+46.82 | 38.52, RT | 3348.97   |
| 159                        | BEALE ST/34+42.82 | 38.52, RT | 3349.05   |
| 160                        | BEALE ST/34+46.82 | 50.52, RT | 3348.58   |
| 161                        | BEALE ST/34+42.82 | 50.52, RT | 3348.68   |
| 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 | 3350.72   |
| 166                        | BEALE ST/34+19.65 | 26.50, RT | 3349.56   |
| 167                        | BEALE ST/34+12.63 | 20.19, RT | 3349.93   |

REVISIONS:

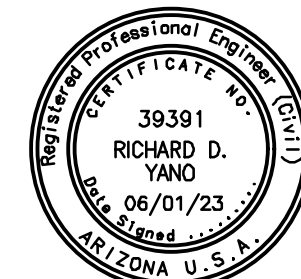
WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100



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

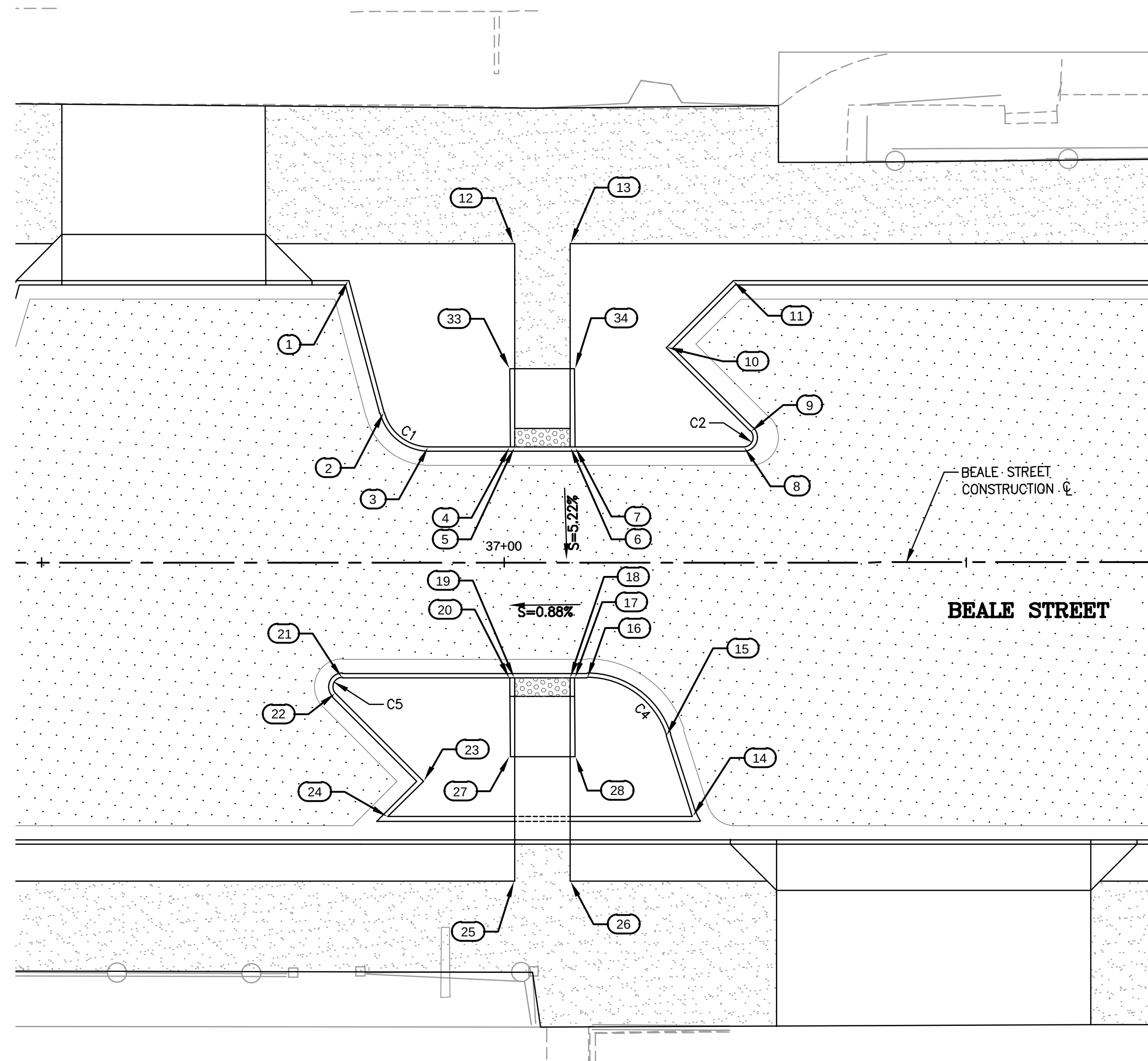
PROJECT NO.  
3720205006

DRAWING NAME

DT09

SHEET NO. 12 OF 52



[illegible]

### MID-BLOCK CROSSING BETWEEN 4TH STREET AND 5TH STREET

| BACK OF CURB STAKING TABLE |                   |           |           |
|----------------------------|-------------------|-----------|-----------|
| POINT #                    | ALIGNMENT/STATION | OFFSET    | ELEVATION |
| 1                          | BEALE ST/36+83.20 | 30.50, LT | 3354.48   |
| 2                          | BEALE ST/36+87.06 | 16.20, LT | 3353.26   |
| 3                          | BEALE ST/36+91.88 | 12.50, LT | 3353.15   |
| 4                          | BEALE ST/37+00.67 | 12.46, LT | 3353.28   |
| 5                          | BEALE ST/37+01.13 | 12.46, LT | 3353.28   |
| 6                          | BEALE ST/37+07.13 | 12.46, LT | 3353.31   |
| 7                          | BEALE ST/37+07.67 | 12.46, LT | 3353.32   |
| 8                          | BEALE ST/37+25.93 | 12.47, LT | 3353.47   |
| 9                          | BEALE ST/37+26.64 | 14.17, LT | 3353.56   |
| 10                         | BEALE ST/37+17.56 | 23.25, LT | 3353.93   |
| 11                         | BEALE ST/37+24.78 | 30.47, LT | 3354.89   |
| 12                         | BEALE ST/37+01.13 | 34.50, LT | 3354.88   |
| 13                         | BEALE ST/37+07.13 | 34.50, LT | 3354.90   |
| 14                         | BEALE ST/37+20.37 | 27.50, RT | 3351.95   |
| 15                         | BEALE ST/37+17.54 | 18.78, RT | 3352.13   |
| 16                         | BEALE ST/37+08.97 | 12.54, RT | 3352.05   |
| 17                         | BEALE ST/37+07.62 | 12.54, RT | 3352.02   |

| POINT # | ALIGNMENT/STATION | OFFSET    | ELEVATION |
|---------|-------------------|-----------|-----------|
| 18      | BEALE ST/37+07.13 | 12.50, RT | 3352.02   |
| 19      | BEALE ST/37+01.13 | 12.50, RT | 3351.95   |
| 20      | BEALE ST/37+00.62 | 12.54, RT | 3351.94   |
| 21      | BEALE ST/36+82.52 | 12.50, RT | 3351.78   |
| 22      | BEALE ST/36+81.81 | 14.21, RT | 3351.68   |
| 23      | BEALE ST/36+91.28 | 23.67, RT | 3351.27   |
| 24      | BEALE ST/36+87.45 | 27.50, RT | 3351.03   |
| 25      | BEALE ST/37+01.13 | 34.50, RT | 3351.78   |
| 26      | BEALE ST/37+07.13 | 34.50, RT | 3352.02   |
| 27      | BEALE ST/37+00.67 | 21.01, RT | 3351.50   |
| 28      | BEALE ST/37+07.67 | 21.00, RT | 3351.69   |
| 33      | BEALE ST/37+00.62 | 20.97, LT | 3353.74   |
| 34      | BEALE ST/37+07.62 | 20.97, LT | 3353.76   |

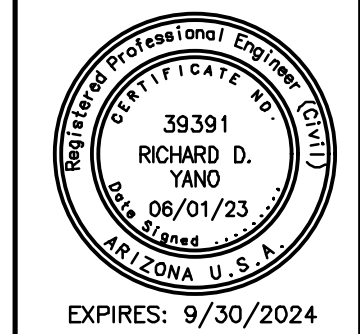
| CURB TABLE |        |        |            |
|------------|--------|--------|------------|
| CURVE #    | LENGTH | RADIUS | DELTA      |
| C1         | 6.54   | 5.00   | 74°53'57"  |
| C2         | 2.36   | 1.00   | 135°00'02" |
| C4         | 11.34  | 9.00   | 72°11'24"  |
| C5         | 2.36   | 1.00   | 135°00'02" |

**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**

**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

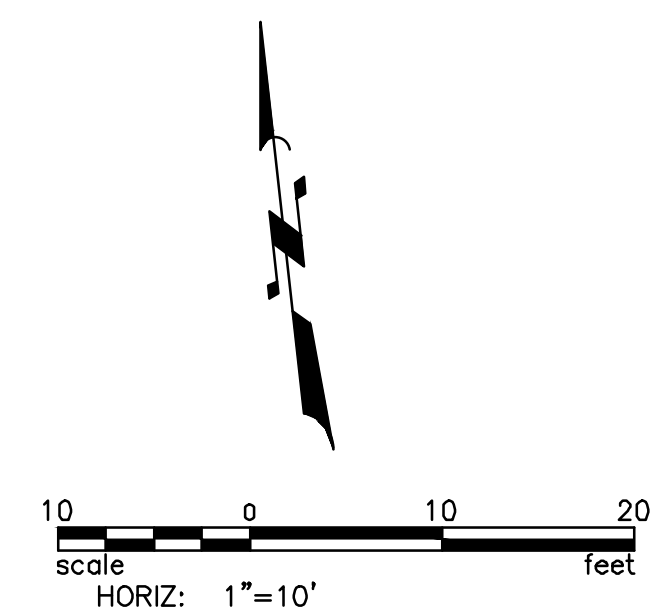


PROJECT NO.  
3720205006

DRAWING NAME

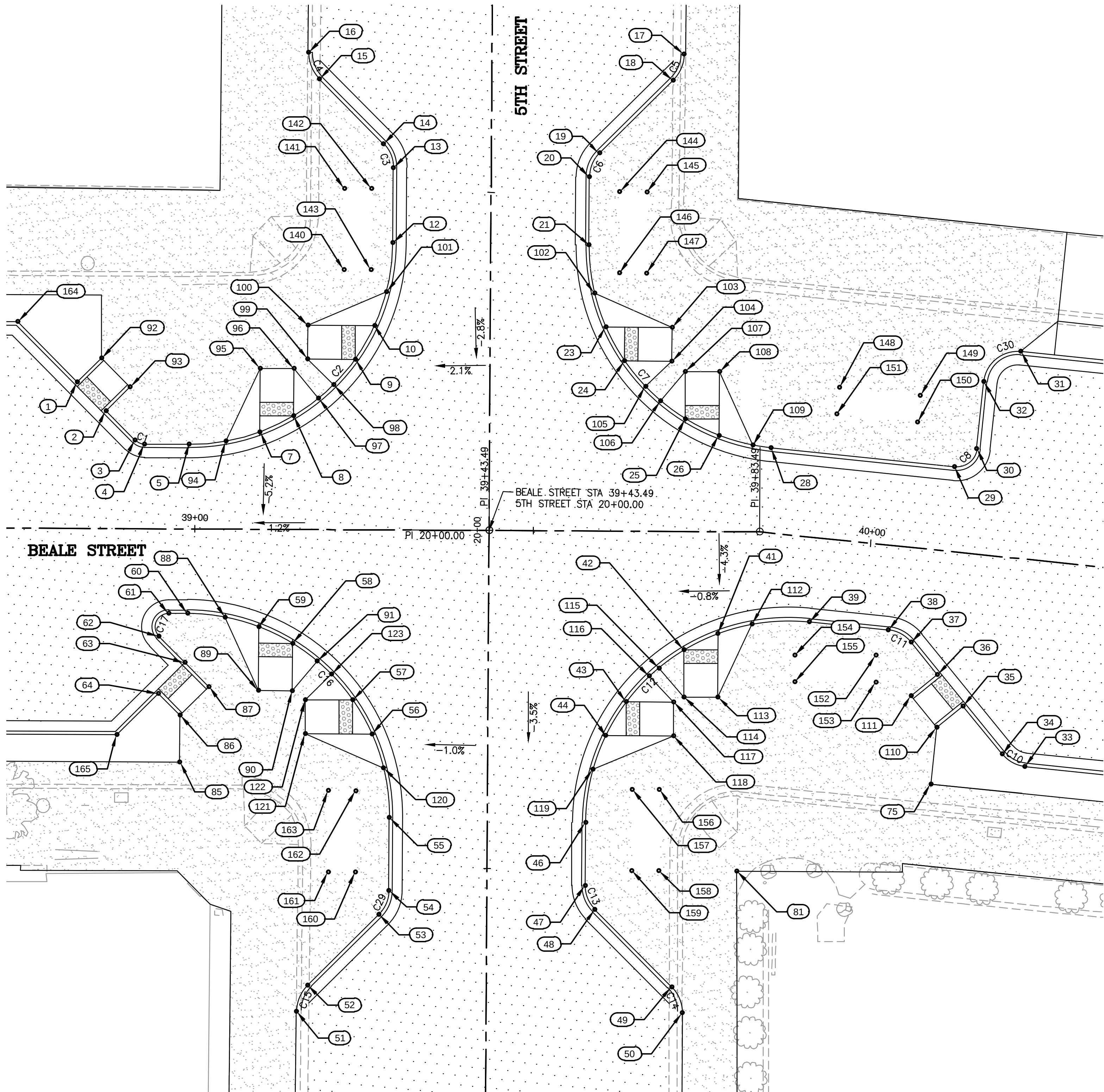
DT10

SHEET NO. 13 of 52





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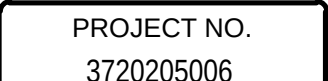




[illegible]

**MID-BLOCK CROSSING DETAIL**

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



DT12

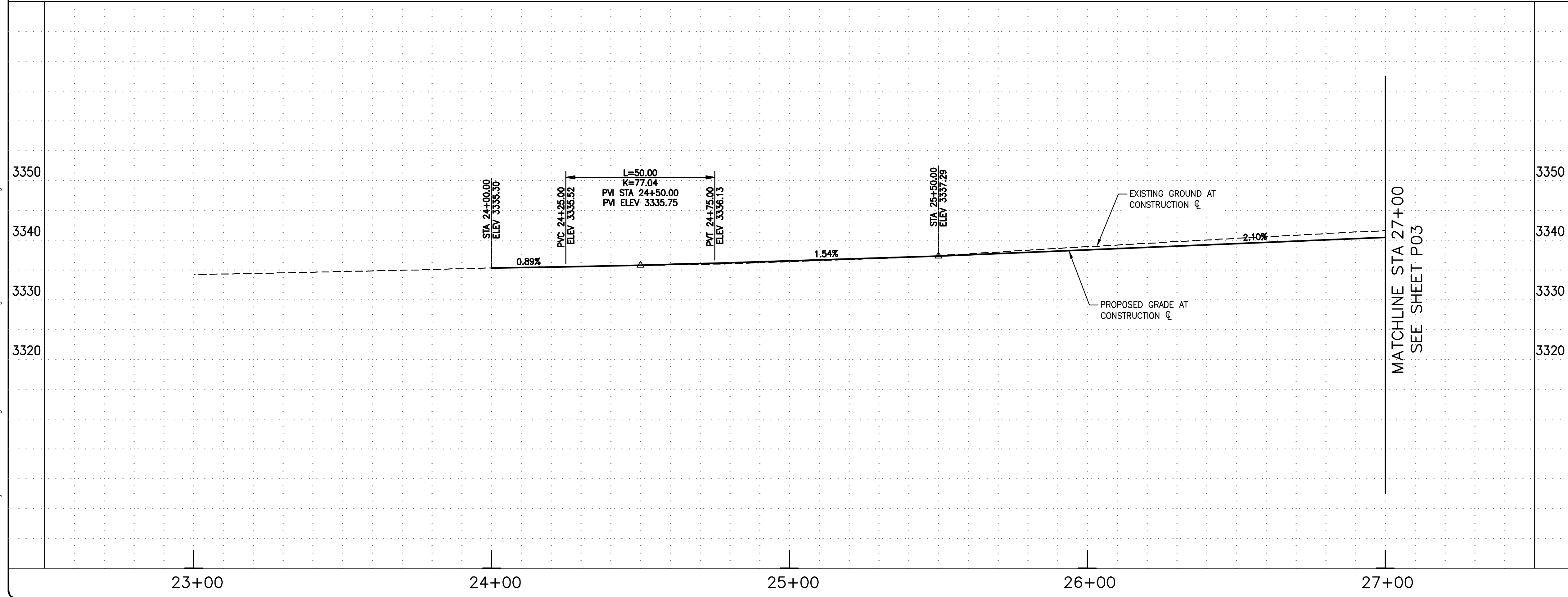
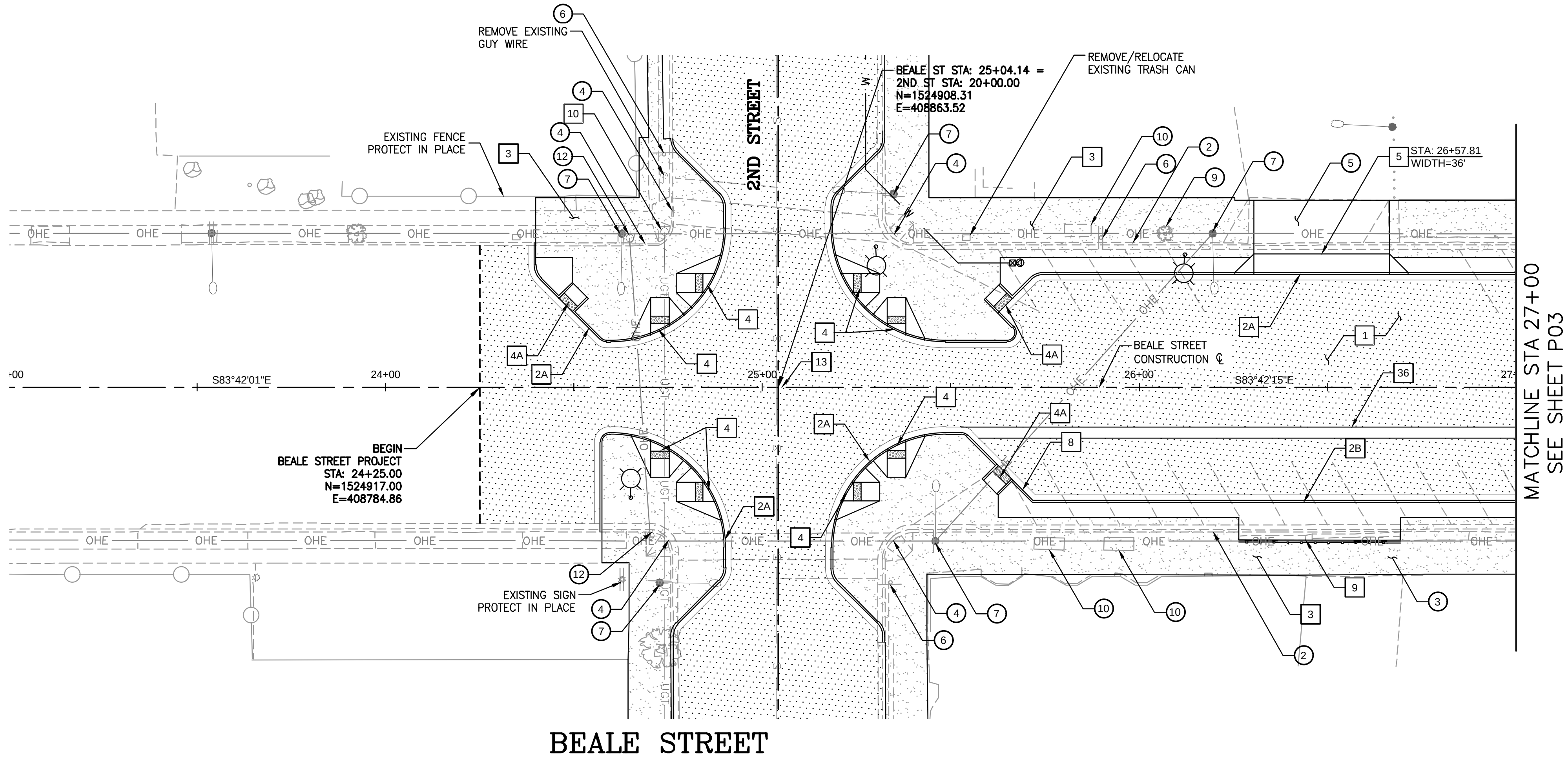
### MID-BLOCK CROSSING BETWEEN 5TH STREET AND 6TH STREET

| POINT # | ALIGNMENT/STATION | OFFSET    | ELEVATION |
|---------|-------------------|-----------|-----------|
| 14      | BEALE ST/42+68.33 | 27.50, RT | 3351.87   |
| 15      | BEALE ST/42+71.91 | 23.92, RT | 3352.02   |
| 16      | BEALE ST/42+62.20 | 14.21, RT | 3352.44   |
| 17      | BEALE ST/42+62.90 | 12.50, RT | 3352.51   |
| 18      | BEALE ST/42+75.59 | 12.50, RT | 3352.52   |
| 19      | BEALE ST/42+76.10 | 12.50, RT | 3352.52   |
| 20      | BEALE ST/42+82.10 | 12.50, RT | 3352.52   |
| 21      | BEALE ST/42+82.59 | 12.50, RT | 3352.52   |
| 22      | BEALE ST/42+86.99 | 12.50, RT | 3352.53   |
| 23      | BEALE ST/42+95.05 | 17.51, RT | 3352.33   |
| 24      | BEALE ST/43+05.16 | 37.92, RT | 3352.63   |
| 25      | BEALE ST/42+82.10 | 34.50, RT | 3352.46   |
| 26      | BEALE ST/42+76.10 | 34.50, RT | 3352.45   |

| 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"  |



File: C:\Infrastructure\Trans\Projects\2020\07\20205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-P02.dwg



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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.
  - 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

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

39391  
RICHARD D. YANO  
06/01/23  
ARIZONA U.S.A.  
EXPIRES: 9/30/2024

PROJECT NO.  
3720205006

DRAWING NAME  
**P02**

SHEET NO. 16 OF 52

REVISIONS:

|  |  |  |  |  |  |  |  |  |  |
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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

**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



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

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    |

EXISTING MAILBOX  
PROTECT IN PLACE

BEALE STREET

3RD STREET

BEALE ST STA: 29+84.06 =  
???  
N=1524855.69  
E=409340.55

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## 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

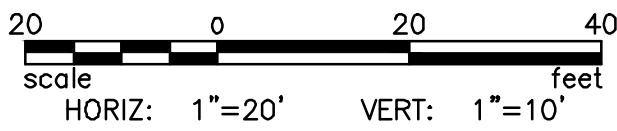
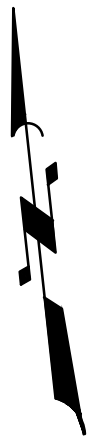
## GENERAL CONSTRUCTION NOTES

- 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



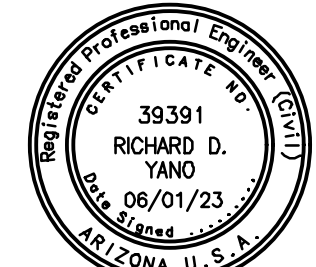
REVISIONS:

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

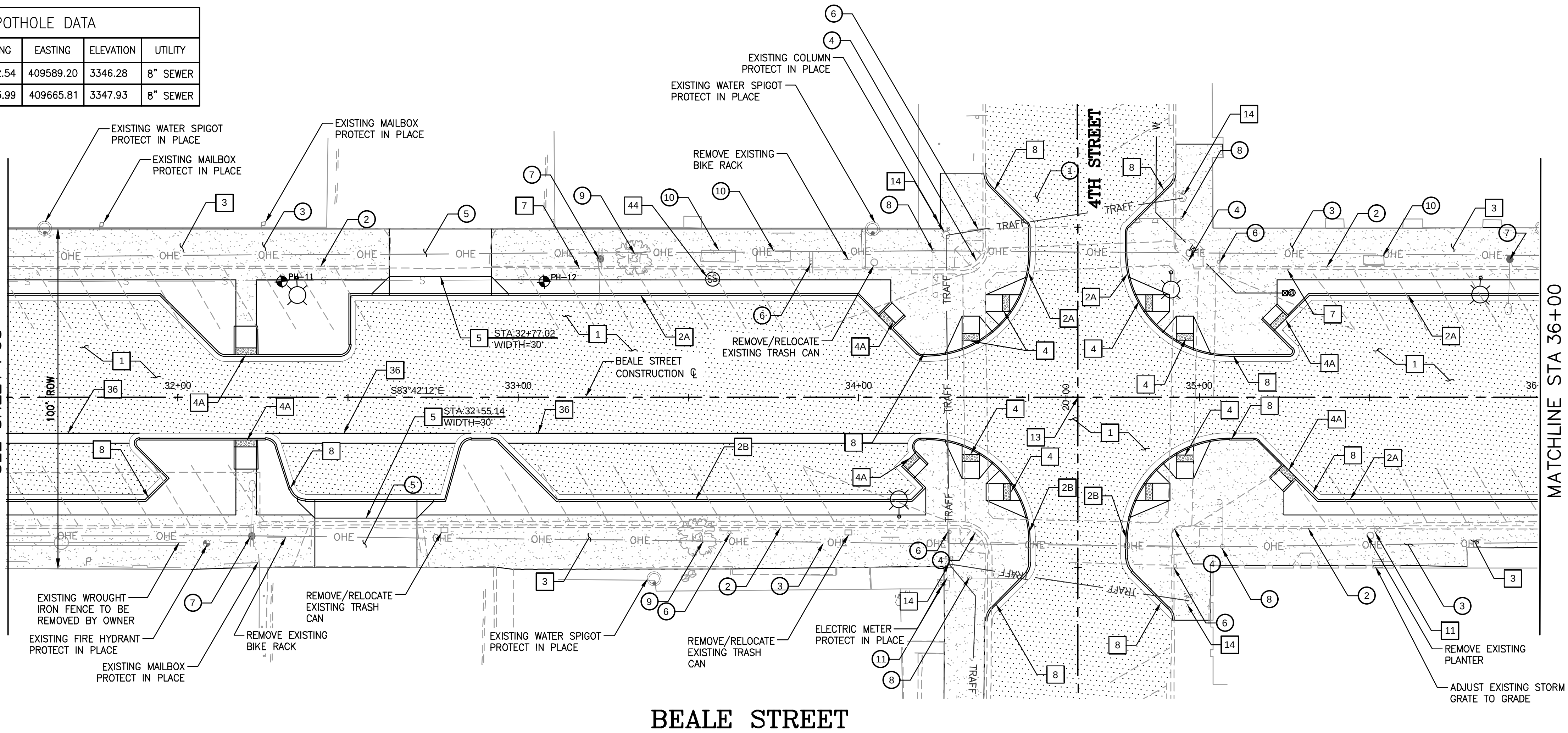
P03

SHEET NO. 17 of 52



| 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 |

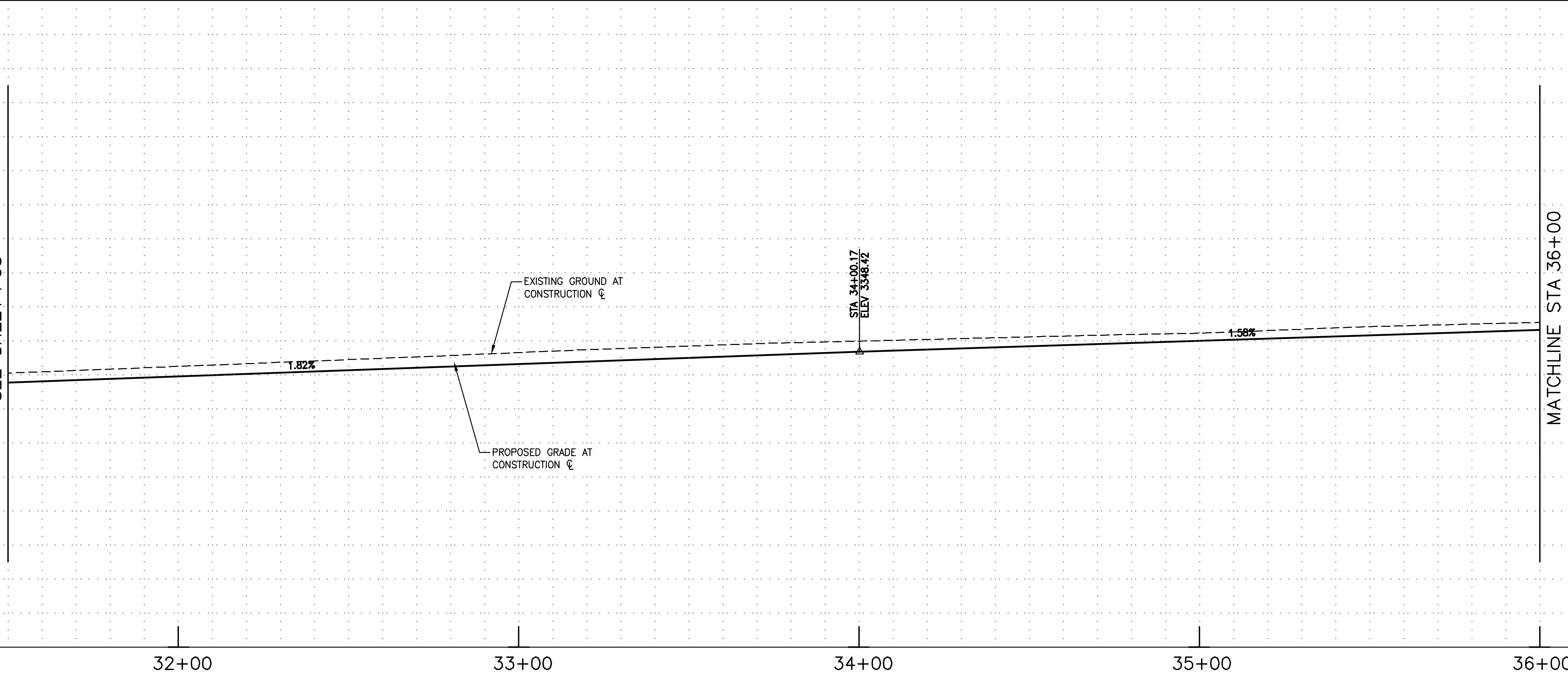
MATCHLINE STA 31+50  
SEE SHEET P03



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

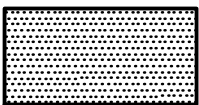
| NO. | DESCRIPTION                                                                                                                                                                      | QTY      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 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     |

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

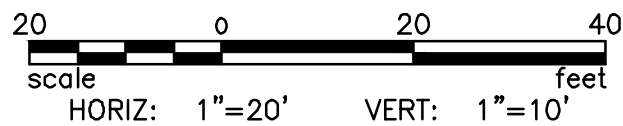
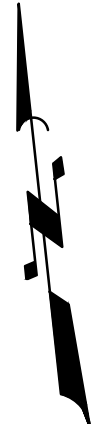
GENERAL CONSTRUCTION NOTES

- 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



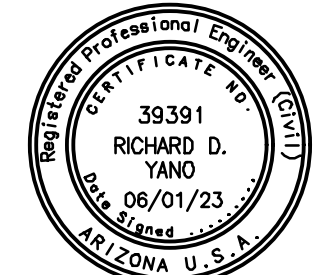
REVISIONS:

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. 18 of 52



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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

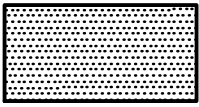
| NO. | DESCRIPTION                                                                                                                                                                      | QTY      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 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

39391

RICHARD D. YANO

06/01/23

ARIZONA U.S.A.

EXPIRES: 9/30/2024

PROJECT NO.

3720205006

DRAWING NAME

P05

SHEET NO. 19 OF 52

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

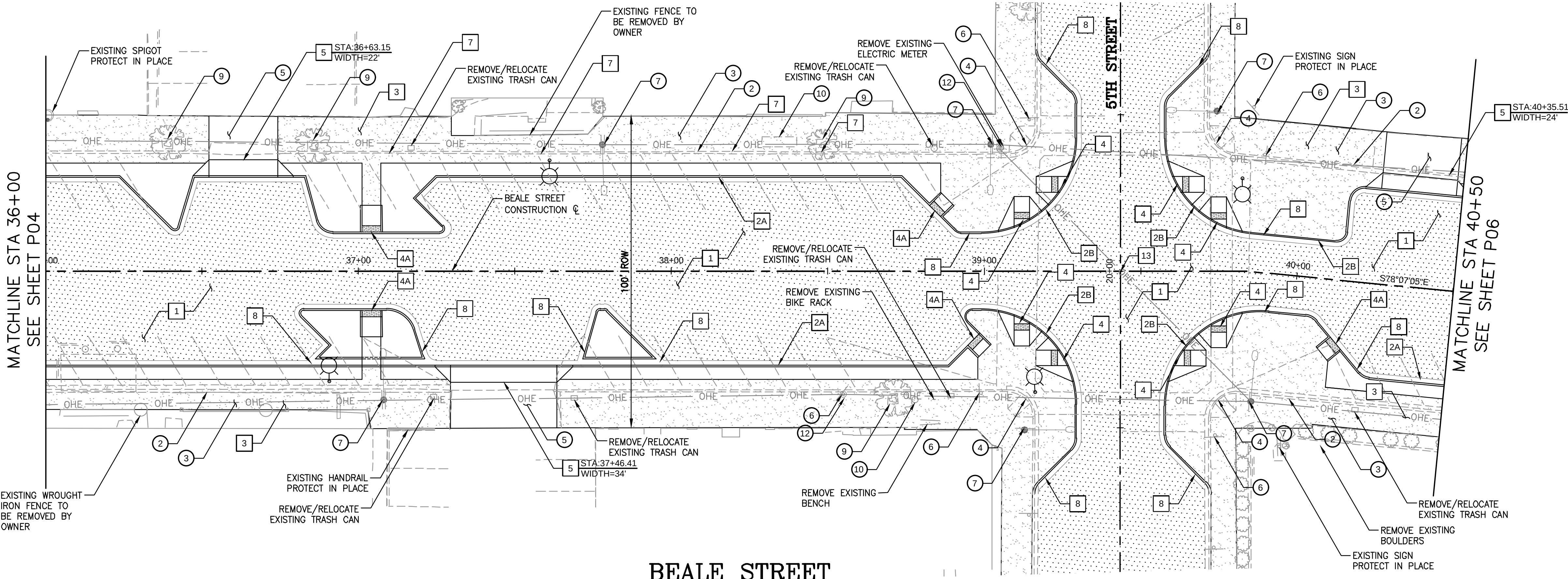
KINGMAN, ARIZONA

DESIGNED BY: HMR

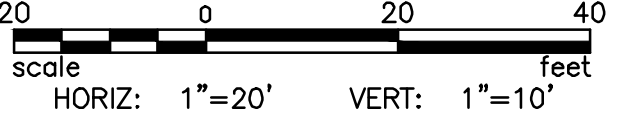
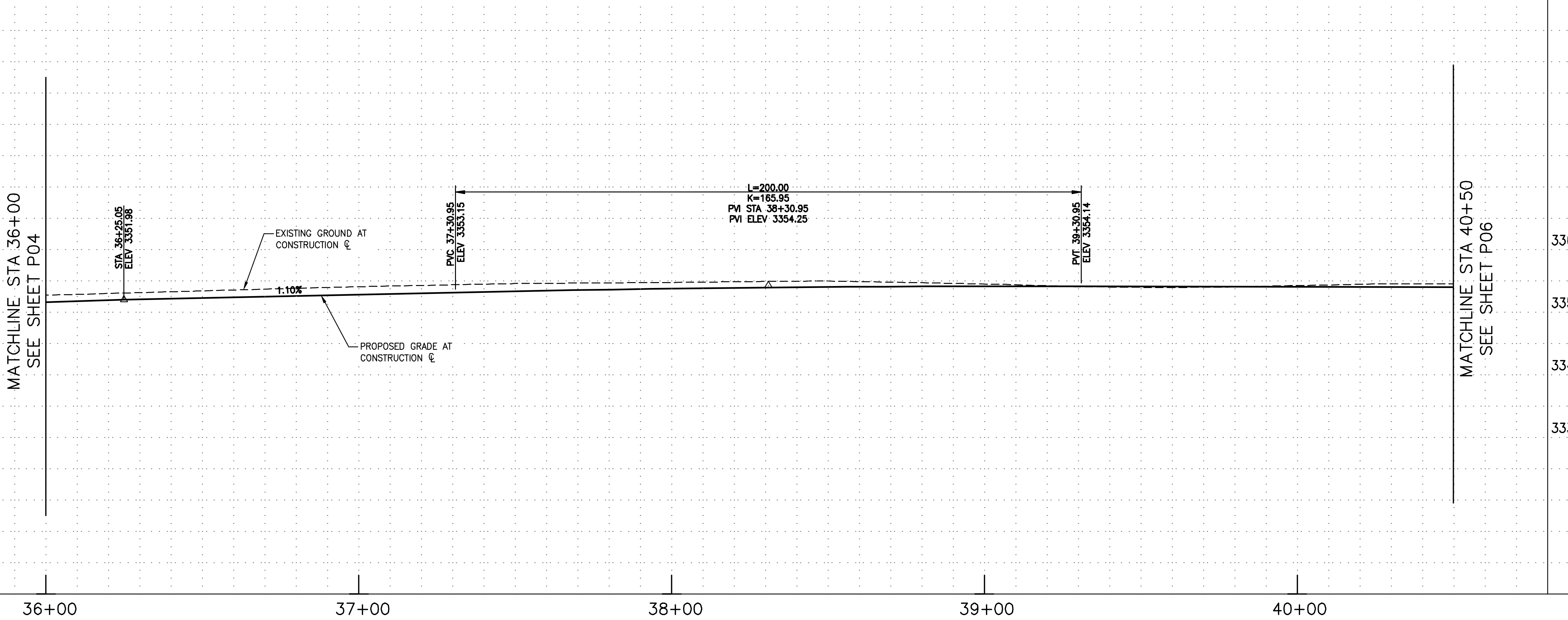
DRAWN BY: AA

CHECKED BY: DY

DATE: JUNE 2023



BEALE STREET





















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REMOVALS & ADJUSTMENTS

| NO. | DESCRIPTION                                    | QTY     |
|-----|------------------------------------------------|---------|
| ①   | SAWCUT AND REMOVE EXISTING PAVEMENT            | 1665 SY |
| ②   | REMOVE EXISTING CONCRETE CURB & GUTTER         | 153 LF  |
| ③   | REMOVE EXISTING CONCRETE SIDEWALK              | 4047 SF |
| ④   | REMOVE EXISTING PEDESTRIAN RAMP                | 8 EA    |
| ⑤   | REMOVE EXISTING CONCRETE DRIVEWAY              | 101 SF  |
| ③①  | 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     |
| ③⑤  | EXISTING WATER METER; PROTECT IN PLACE         | NPI     |
| ③⑥  | EXISTING IRRIGATION VALVE; PROTECT IN PLACE    | NPI     |
| ③⑦  | EXISTING IRRIG. JUNCTION BOX; PROTECT IN PLACE | NPI     |

CONSTRUCTION NOTES

| NO. | DESCRIPTION                                                                      | QTY     |
|-----|----------------------------------------------------------------------------------|---------|
| ①   | CONSTRUCT ASPHALT PAVEMENT, STRUCTURAL SECTION NO. 1                             | 1857 SY |
| 2B  | CONSTRUCT 6" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A          | 475 SF  |
| ③   | CONSTRUCT CONCRETE SIDEWALK, MAG STD DTL 230                                     | 2893 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                                   | 1298 SF |
| ⑫   | ADJUST & CLEAN EXISTING MANHOLE FRAME AND COVER TO FINISH GRADE, MAG STD DTL 422 | 1 EA    |

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

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LEGEND



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

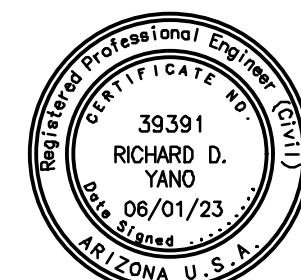
REVISIONS:

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

5TH 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

DRAWING NAME

P12

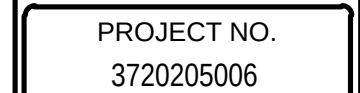
SHEET NO. 24 of 52

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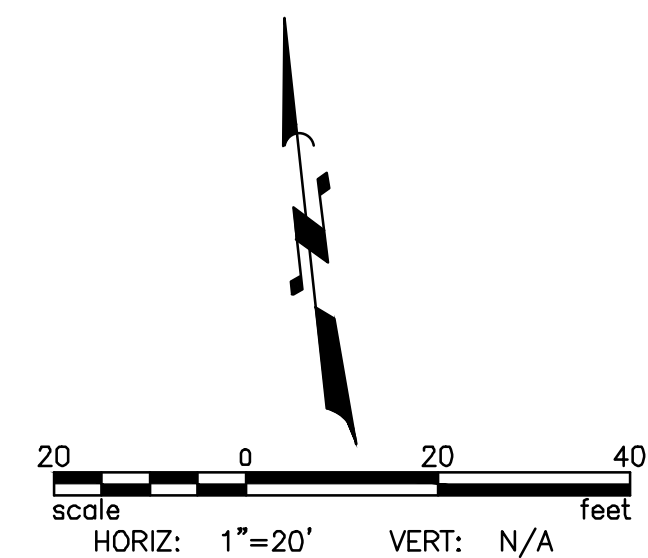


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|                                                                                             |
|---------------------------------------------------------------------------------------------|
| BEALE STREET GRADES                                                                         |
| PROJECT: KINGMAN DOWNTOWN INFRASTRUCTURE<br>BEALE ST - 1ST ST TO 6TH ST<br>KINGMAN, ARIZONA |



DRAWING NAME  
**P14**  
SHEET NO. 25 of 52

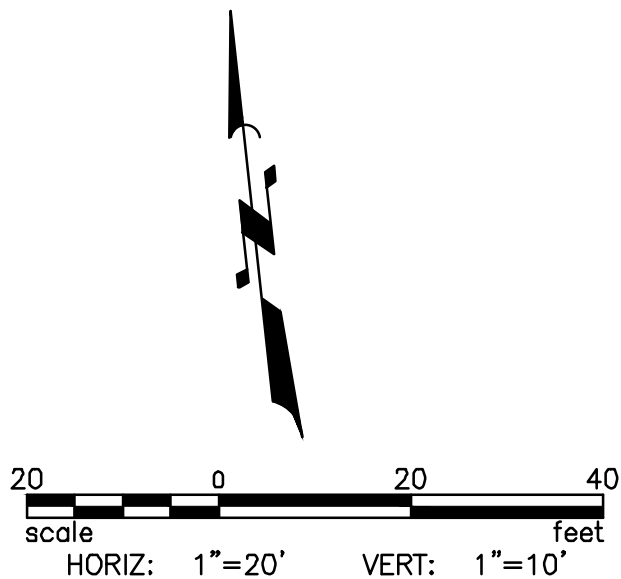
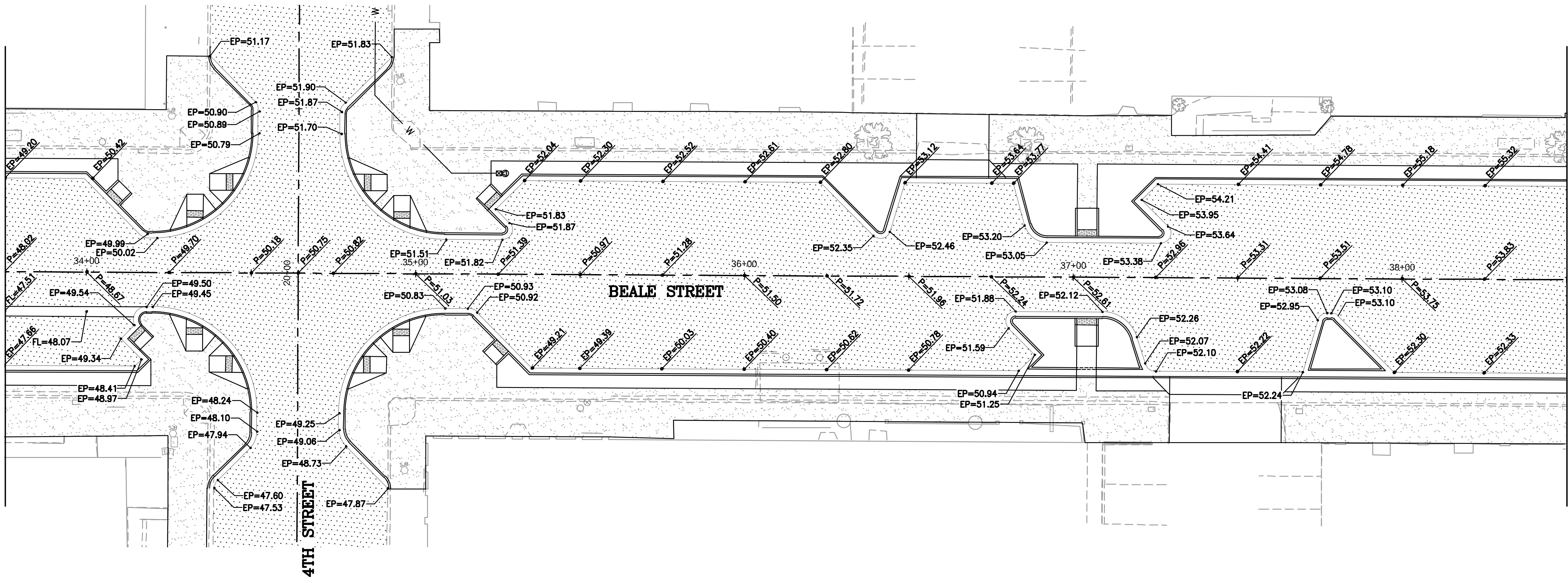
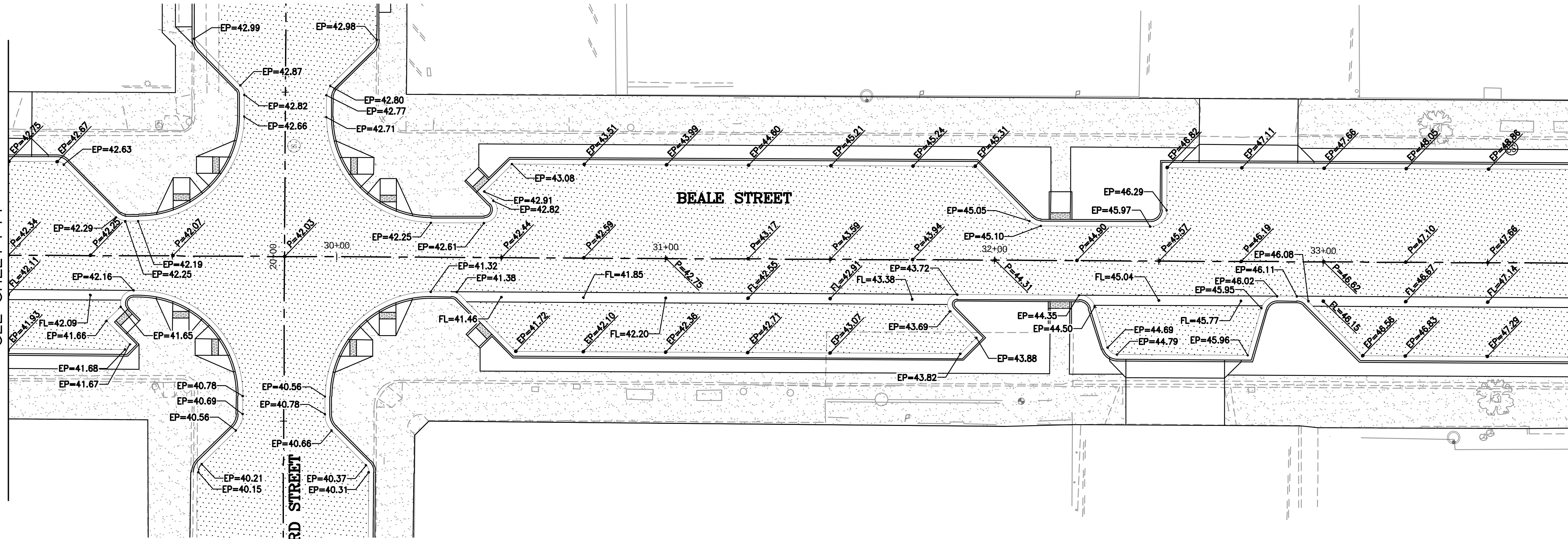




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MATCHLINE STA 29+00  
SEE SHEET P14

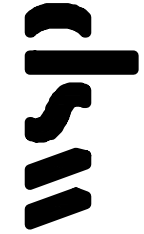
MATCHLINE STA 33+75  
SEE SHEET ABOVE



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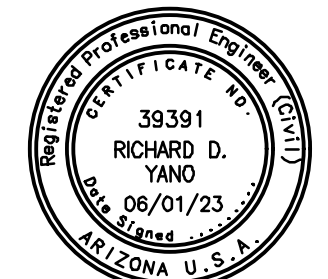
| REVISIONS: |  |
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WSP USA Environment & Infrastructure, Inc.  
4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034  
PHONE: 602-733-6000  
FAX: 602-733-6100



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



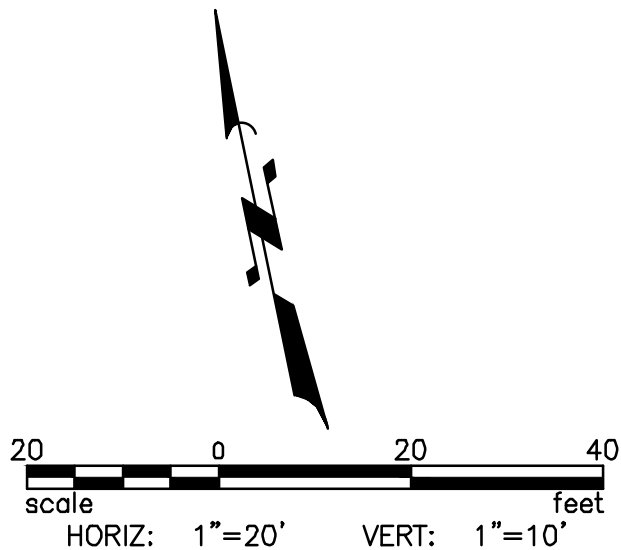
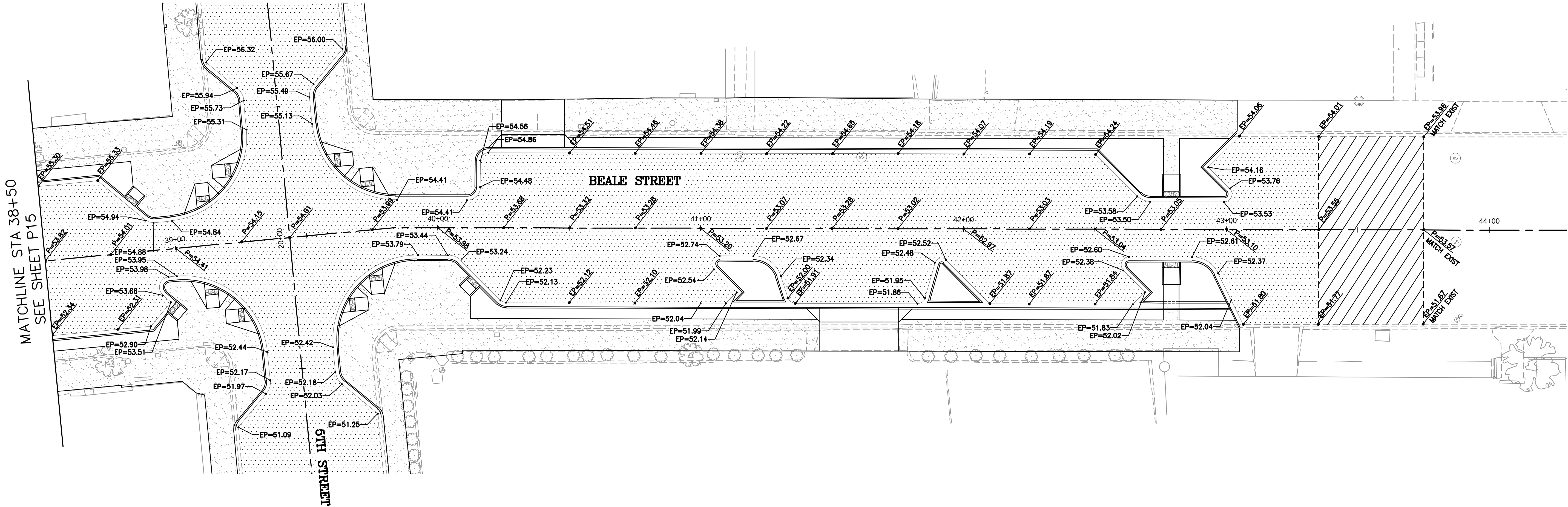
EXPIRES: 9/30/2024

PROJECT NO.  
3720205006

DRAWING NAME  
**P15**  
SHEET NO. 26 of 52



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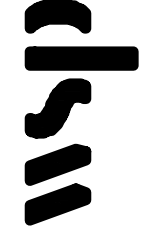


REVISIONS:

WSP USA Environment & Infrastructure, Inc.

4600 E. WASHINGTON STREET, SUITE 600  
PHOENIX, ARIZONA 85034

PHONE: 602-733-6000  
FAX: 602-733-6100



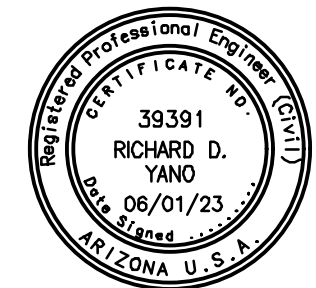
BEALE STREET GRADES

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

P16

SHEET NO. 27 of 52



UNLESS OTHERWISE AGREED IN A WRITTEN CONTRACT BETWEEN WSP USA ENVIRONMENT & INFRASTRUCTURE, INC. AND ITS CLIENT, (i) THIS DOCUMENT CONTAINS INFORMATION, DATA AND DESIGN THAT IS CONFIDENTIAL AND MAY NOT BE COPIED OR DISCLOSED; AND (ii) MAY ONLY BE USED BY THE CLIENT IN THE CONTEXT AND FOR THE EXPRESS PURPOSE FOR WHICH IT HAS BEEN DELIVERED. ANY OTHER USE OR RELIANCE ON THIS DOCUMENT BY ANY THIRD PARTY IS AT THAT PARTY'S SOLE RISK AND RESPONSIBILITY.

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              | 29 EA   |
| 22  | MOUNT SIGN ON THE PROPOSED LIGHT POLE                                  | 9 EA    |
| 23  | REMOVE AND REPLACE EXISTING SIGN                                       | 31 EA   |
| 24  | REMOVE EXISTING SIGN                                                   | 7 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 |

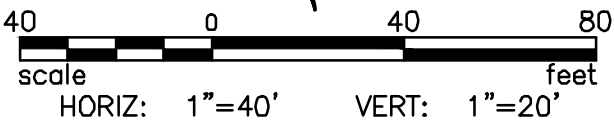
PAVEMENT MARKING NOTES

- 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

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LEGEND



REVISIONS:

|  |  |  |  |  |  |  |  |  |  |
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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

PAVEMENT MARKING SHEET 01

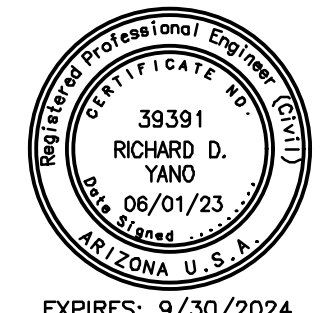
KINGMAN DOWNTOWN INFRASTRUCTURE

BEALE ST - 1ST ST TO 6TH ST

KINGMAN, ARIZONA

PROJECT:

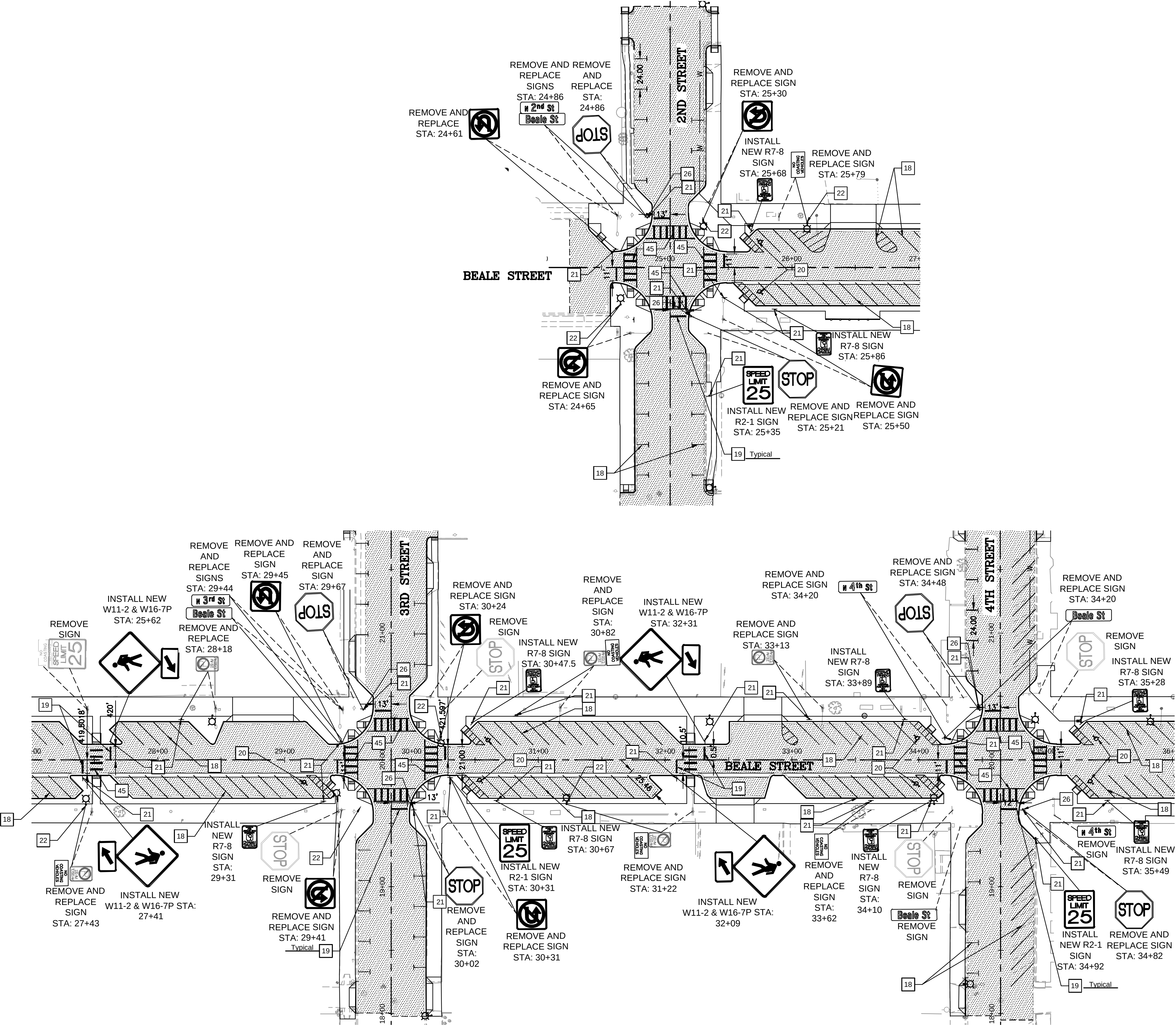
DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023



EXPIRES: 9/30/2024

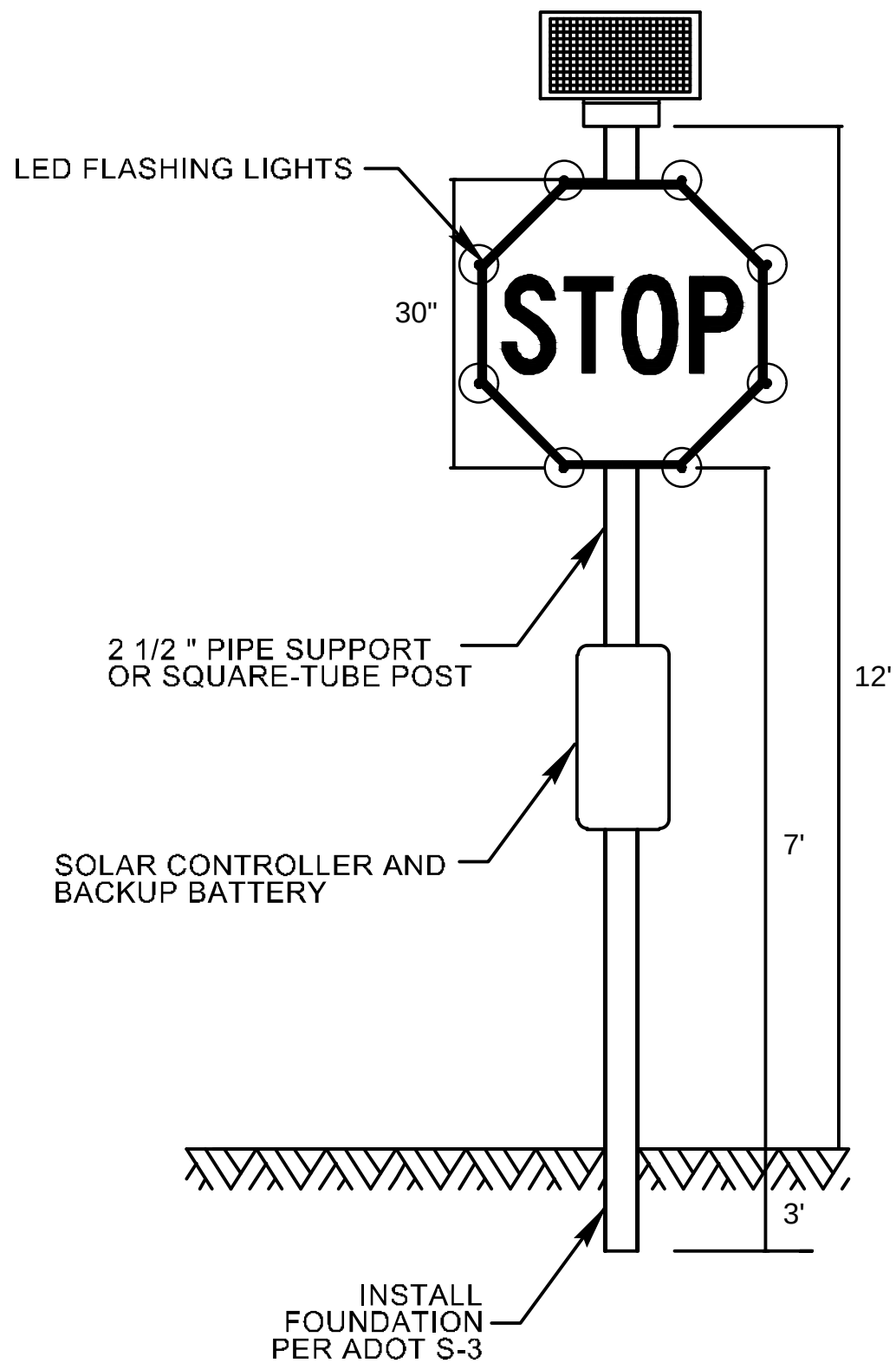
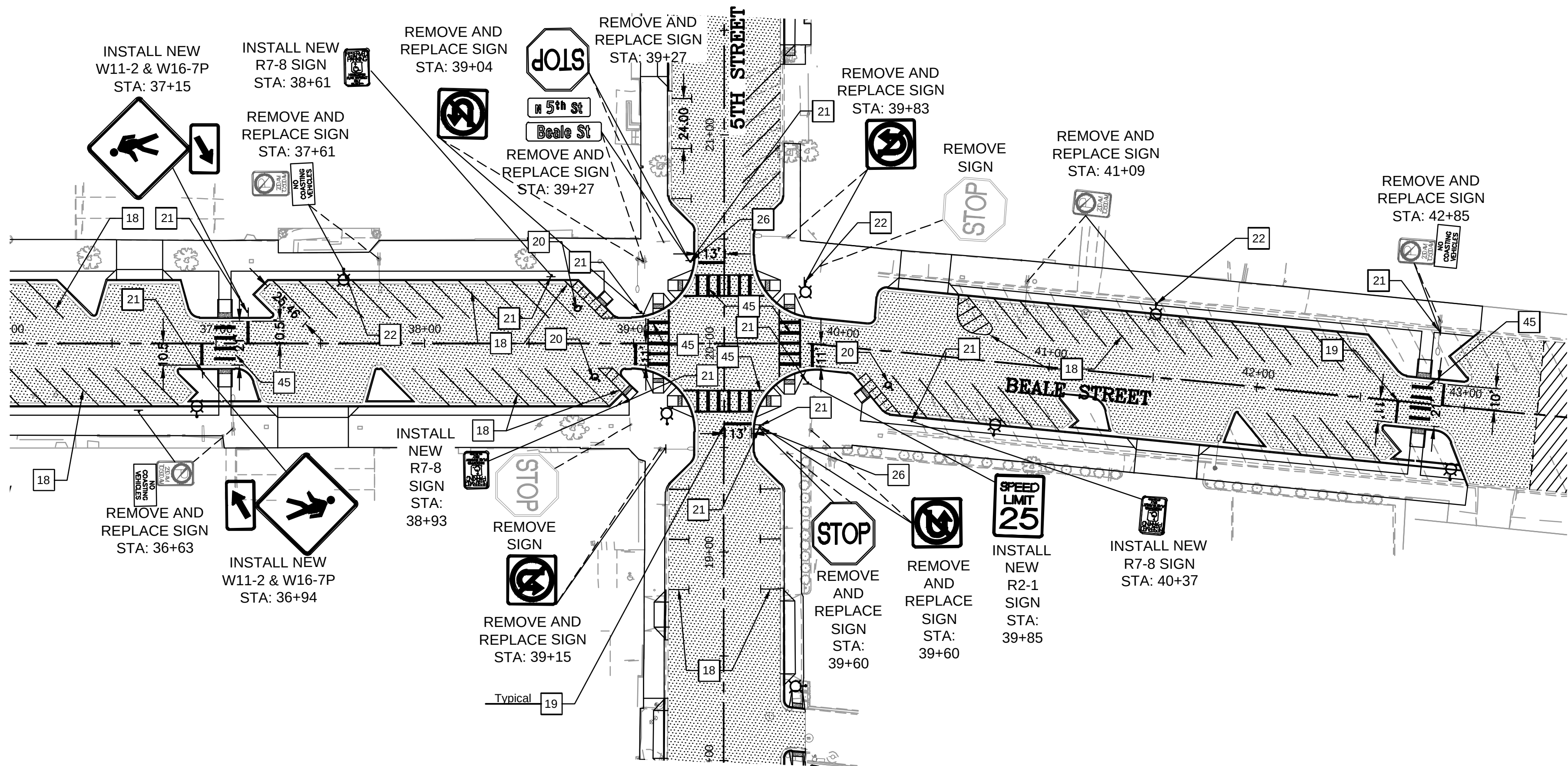
PROJECT NO.  
3720205006

DRAWING NAME  
**PM01**  
SHEET NO. 28 OF 52

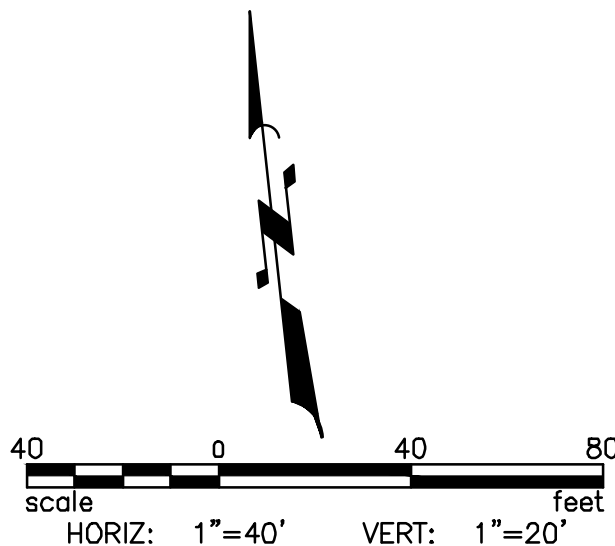




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DETAIL T-1  
NOT TO SCALE



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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                                  | 3 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

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### LEGEND



REVISIONS:

|  |  |  |  |  |  |  |  |  |  |
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WSP

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

EXPIRES: 9/30/2024

PROJECT NO.  
3720205006

DRAWING NAME  
PM02

SHEET NO. 29 OF 52



MATCHLINE STA 27+00  
SEE SHEET SL03

HORIZ: 1"=20' VERT: 1"=10'

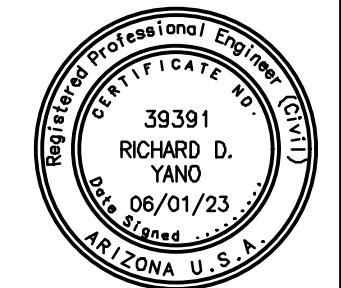
SHEET NO. 30 of 52



STREET LIGHT PLAN

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

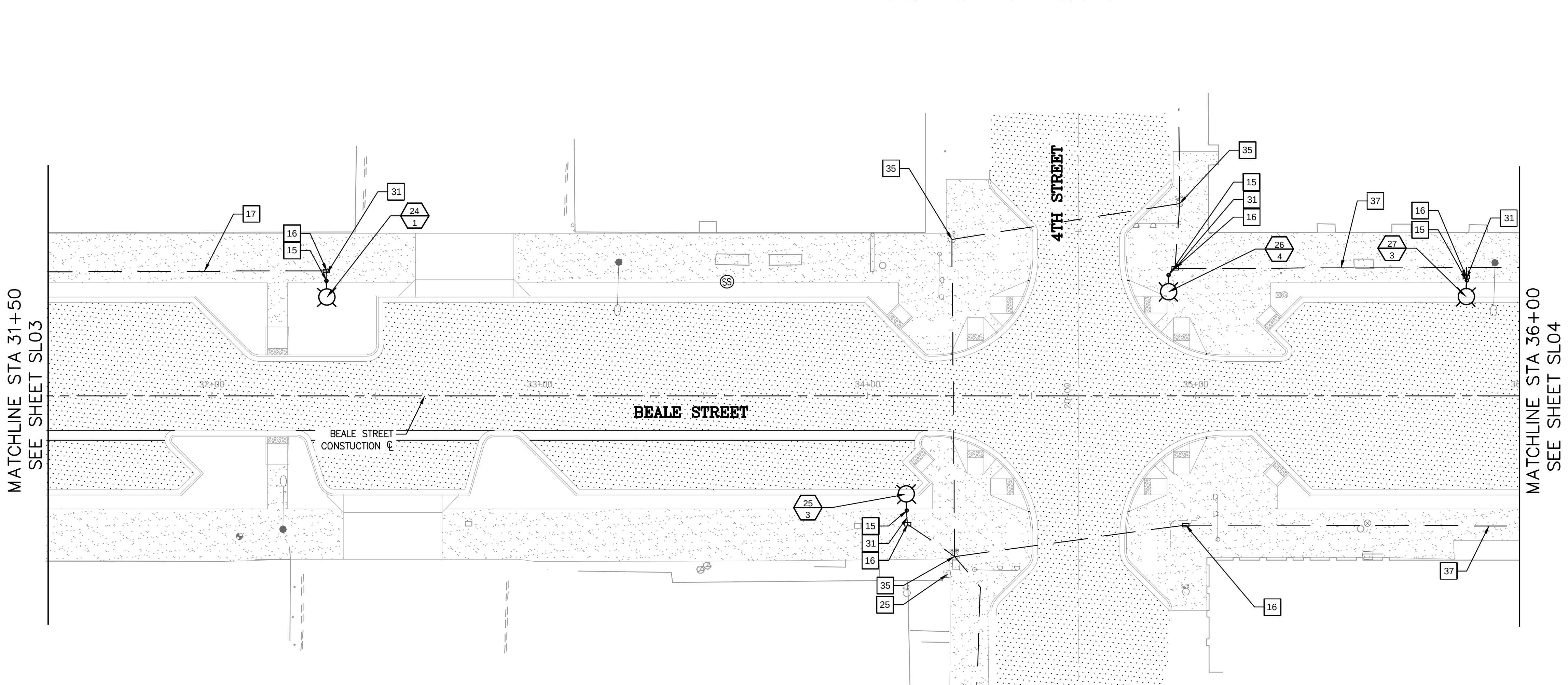
- DESIGNED BY: HMR  
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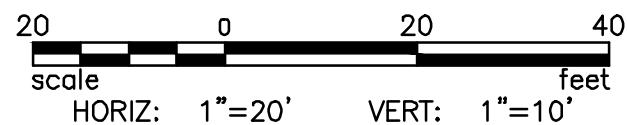
PROJECT NO.  
3720205006

SL03

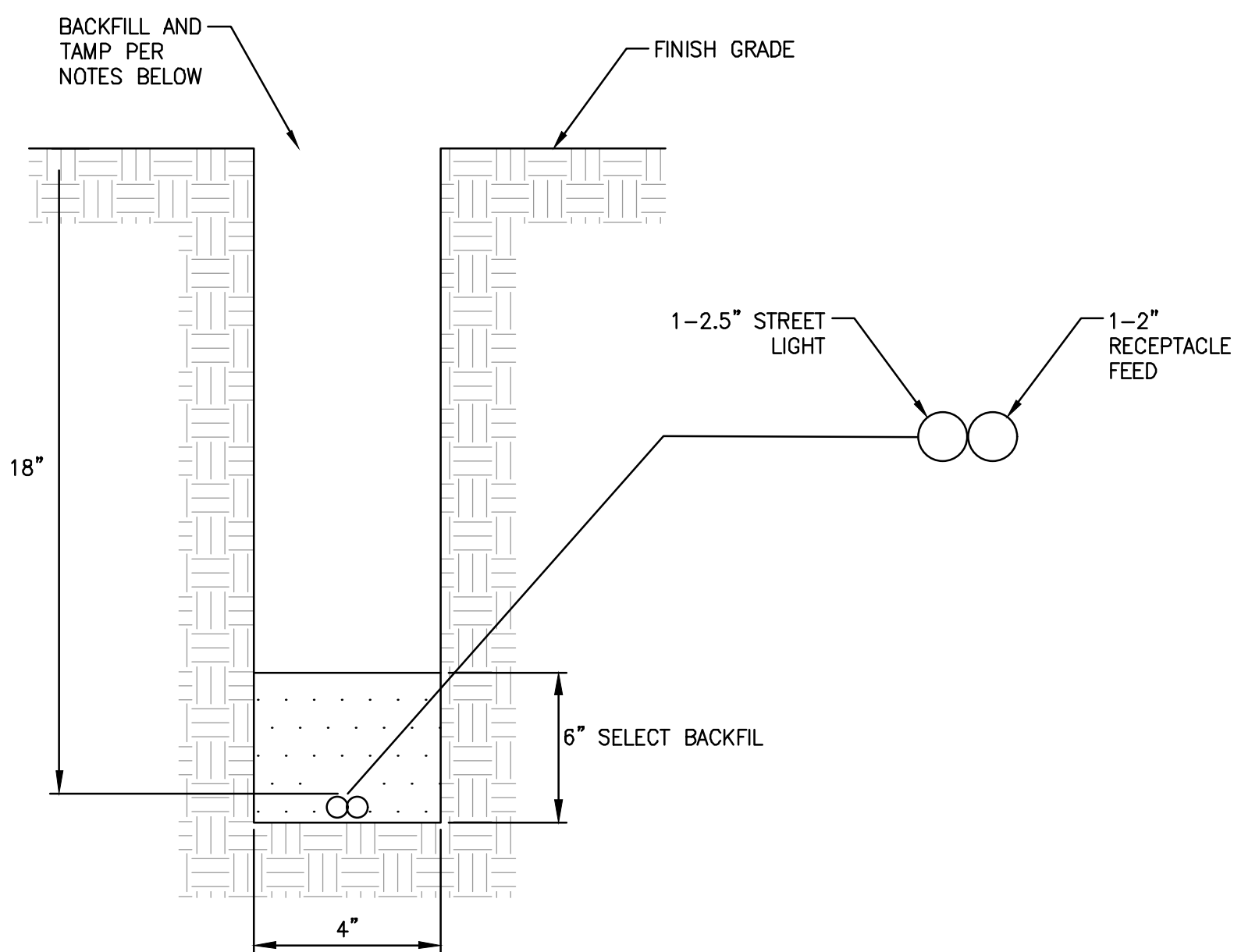
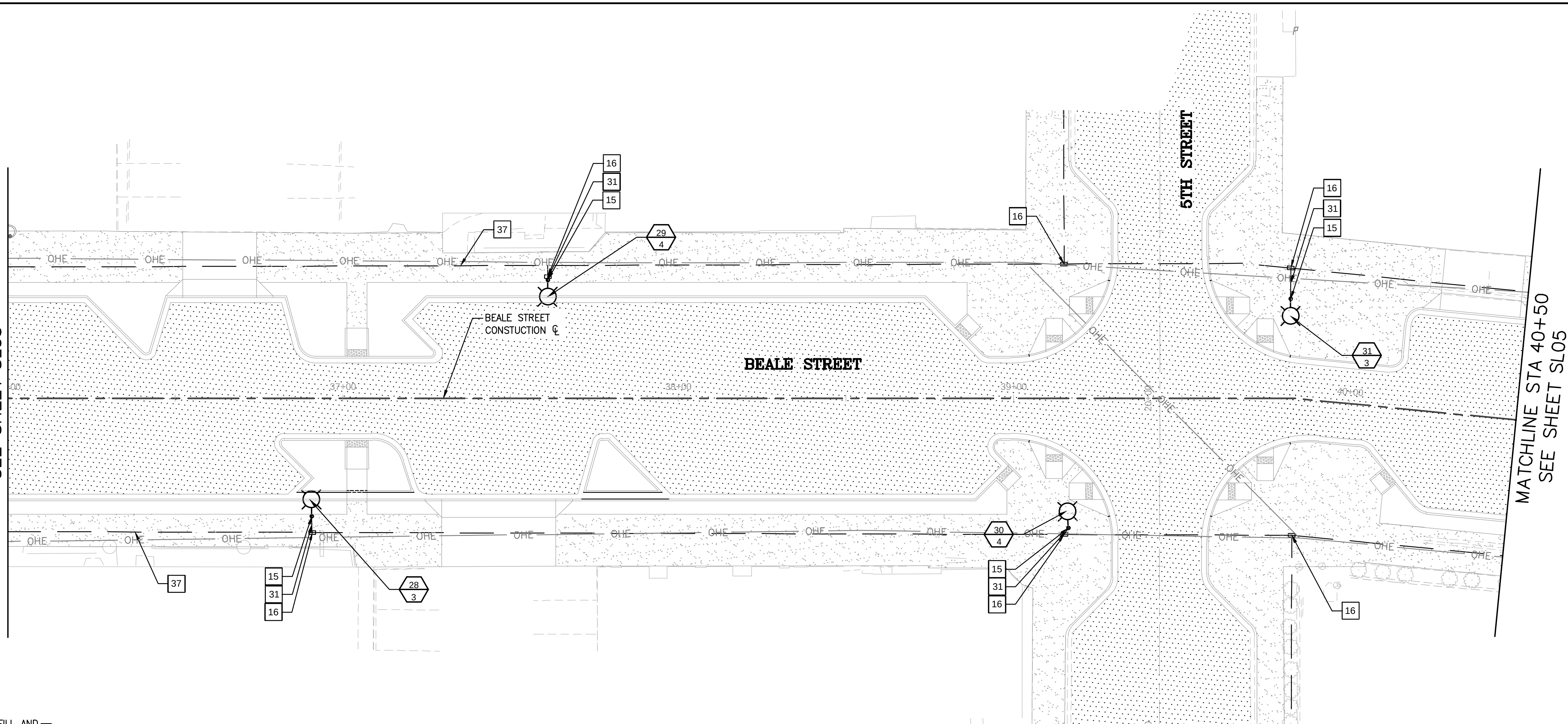
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1. STREETLIGHT FOUNDATIONS FROM GRANDVIEW TO 1ST WILL BE VACUUM EXCAVATED TO ACCOUNT FOR IMMEDIATELY ADJACENT UTILITIES
2. CENTER OF STREETLIGHT FOUNDATIONS SHALL BE INSTALLED 1'-3" OFF BACK OF SIDEWALK AND FIELD ADJUSTED BASED ON LOCATION OF EXISTING UTILITIES
3. CONDUIT AND JUNCTION BOXES SHALL BE FIELD ADJUSTED BASED ON LOCATION OF UTILITIES
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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  $\frac{3}{8}$ " 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 4st @ Beale Street |           |
|----------------------------|---------------------|---------------------------------|-----------|---------------------------------|-----------|
|                            |                     | Circuit 1                       | Circuit 2 | Circuit 3                       | Circuit 4 |
| SL 01                      | Grandview - 1st     | 5                               | 5         |                                 |           |
| SL 02 top                  | 1st intersection    | 1                               | 2         |                                 |           |
| SL 06 top                  | 1st st              | 1                               | 1         |                                 |           |
| SL 02 bottom               | 2nd St intersection | 3                               | 2         |                                 |           |
| SL 06 bottom               | 2nd st              | 1                               | 1         |                                 |           |
| SL 03 top                  | 3rd St intersection | 2                               | 3         |                                 |           |
| SL 07 top                  | 3rd St              | 1                               | 1         |                                 |           |
| SL 03 bottom               | 4th St intersection | 1                               |           | 2                               | 1         |
| SL 07 Bottom               | 4th st              |                                 |           | 1                               | 1         |
| SL 04 Top+bottom           | 5th St Intersection |                                 |           | 5                               | 4         |
| SL 08 Top                  | 5th                 |                                 |           | 1                               | 1         |
| SL 05                      | 6th St Intersection |                                 |           | 1                               | 1         |
| SL 08 bottom               | 6th                 |                                 |           | 1                               | 1         |
| Total                      |                     | 15                              | 15        | 11                              | 9         |
| Total amps/pole            |                     | 0.83                            |           |                                 |           |
| Amps/circuit               |                     | 12.5                            | 12.5      | 9.17                            | 7.5       |
| Max Amps/ Circuit          |                     | 20 amps                         |           |                                 |           |
| Allowable Amps/Circuit 80% |                     | 16 amps                         |           |                                 |           |
| Max Distance (ft)          |                     | 1550                            | 1550      | 1400                            | 1400      |
| Voltage Drop Ohms          |                     | 9.63                            | 9.63      | 10.14                           | 8.3       |
| Max Allowable drop Ohms    |                     | 12                              | 12        | 12                              | 12        |

| Conduit                    |            |                         |                                  |                    |                    |
|----------------------------|------------|-------------------------|----------------------------------|--------------------|--------------------|
| STREET TYPE AND ROAD WIDTH | LAND USE   | AVERAGE<br>FOOT-CANDLES | UNIFORMITY RATIO<br>(AVG-TO-MIN) | SPACING<br>PATTERN | MOUNTING<br>HEIGHT |
| ILLUMINATION STANDARDS     |            |                         |                                  |                    |                    |
| 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                 |
| ILLUMINATION PROVIDED      |            |                         |                                  |                    |                    |
| COLLECTOR ROAD 60'         | COMMERCIAL | 0.9                     | 3:1                              | STAGGERED          | 29'                |
| SIDEWALK 12'               | COMMERCIAL | 0.5                     | 5:1                              |                    |                    |

| Sheet                   | Roadway Section     | Power Source 1st<br>@ Beale Street |                | Power Source 4st<br>@ 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                 |                                    |                |                                    |                |
| SL05                    | 6th St Intersection |                                    |                | 1                                  | 1              |
| SL08 bottom             | 6th                 |                                    |                |                                    |                |
| Total                   |                     | 12                                 | 12             | 8                                  | 6              |
| Breaker/Circuit         |                     | 50 amp breaker                     | 50 amp breaker | 50 amp breaker                     | 50 amp breaker |
| Total amps/pole         |                     |                                    |                |                                    |                |
| Amps/circuit            |                     | 20                                 | 20             | 20                                 | 20             |
| Max Distance (ft)       |                     | 1550                               | 1550           | 1400                               | 1400           |
| Voltage Drop Ohms       |                     | 9.69                               | 9.69           | 8.75                               | 8.75           |
| Max Allowable drop Ohms |                     | 12                                 | 12             | 12                                 | 12             |

| Conduit and Conductor Schedule |               |                                       |                     |
|--------------------------------|---------------|---------------------------------------|---------------------|
| Construction Note              | Conduit       |                                       | Conductors          |
|                                | Size (inches) |                                       |                     |
| 17                             | 2.5"          | Street Light, Speaker, Festive Lights | 2#4 THWN, 1#8 Bare  |
|                                | 2"            | Receptacles                           | 2#2 THWN, 1#8 Bare  |
| 31                             | 1"            | Street Light, Speaker, Festive Lights | 2#10 THWN, 1#8 Bare |
|                                | 1"            | Receptacles                           | 2#10 THWN, 1#8 Bare |
| 37                             | 2.5"          | Street Lights                         | 2#6 THWN, 1#8 Bare  |
|                                | 2"            | Receptacles                           | 2#2 THWN, 1#8 Bare  |

## CONSTRUCTION NOTES

| NO. | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                               | QTY    |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|     | INSTALL NEW ARLEN 20 ALUMINUM POLE<br>W/RECEPTACLE, FOUNDATION, ARM AND LUMINAIRE<br>(CEM CLASSICAL EPIC MEDIUM LED) SEE SHEET SLO9                                                                                                                                                                                                                                                                                                                       | 4 EA   |
| 15  | INSTALL NEW #5 PULL BOX                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5 EA   |
|     | JUNCTION BOX TO STREETLIGHT FEEDS ON BEALE<br>STREET: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT<br>DIG CONDUIT AND INSTALL WIRE AS FOLLOWS:<br>A)SINGLE 1" CONDUIT WITH 2-#10 THWN AND 1 #8<br>BARE FOR STREETLIGHTS<br>B)SINGLE 1" CONDUIT WITH 2-#10 THWN AND 1 #8<br>BARE FOR FUTURE GFCI'S<br>C)NO SPARE CONDUIT<br>D)NO GFCI. MOUNTING HARDWARE WILL STILL NEED<br>TO BE INSTALLED IN DECORATIVE BASE FOR FUTURE<br>GFCI INSTALLATION<br>E) NO AMP KITS | 125 LF |
| 31  | JUNCTION BOX TO JUNCTION BOX FEEDS ON BEALE<br>STREET FROM 4TH TO 6TH: OPEN TRENCH,<br>DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND<br>INSTALL WIRE AS FOLLOWS:<br>A)SINGLE 2.5" CONDUIT WITH 2-#6 THWN AND 1 #8<br>BARE FOR STREETLIGHTS<br>B)SINGLE 2.0" CONDUIT WITH 2-#2 THWN AND 1 #8<br>BARE FOR FUTURE GFCI'S<br>C)NO SPARE CONDUIT                                                                                                                   | 900 LF |
| 37  |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |


 STREET LIGHT #  
 CIRCUIT #

## GENERAL CONSTRUCTION NOTES

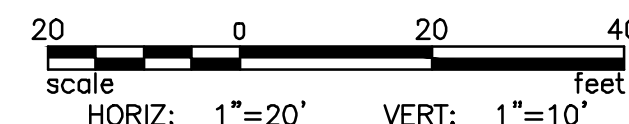
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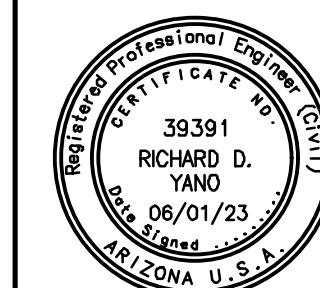


REVISIONS:

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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: HM  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023



PROJECT NO.  
3720205006

DRAWING NAME

SL04

SHEET NO. 32 of 52



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CONSTRUCTION NOTES

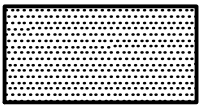
| NO. | DESCRIPTION                                                                                                                                                                                                                                                                | QTY    |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
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| 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 |

STREET LIGHT #  
CIRCUIT #

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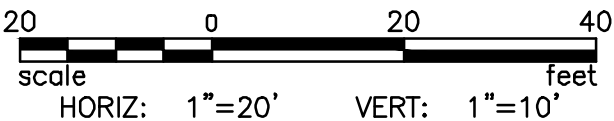
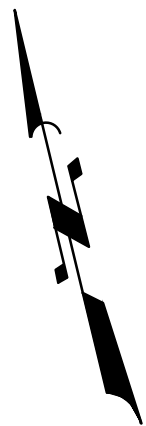
LEGEND



ASPHALT PAVEMENT

NOTES

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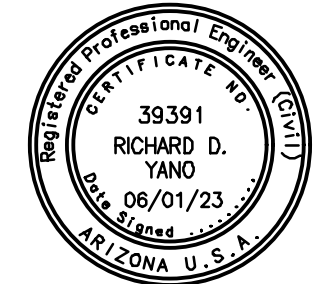
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STREET LIGHT PLAN

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

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

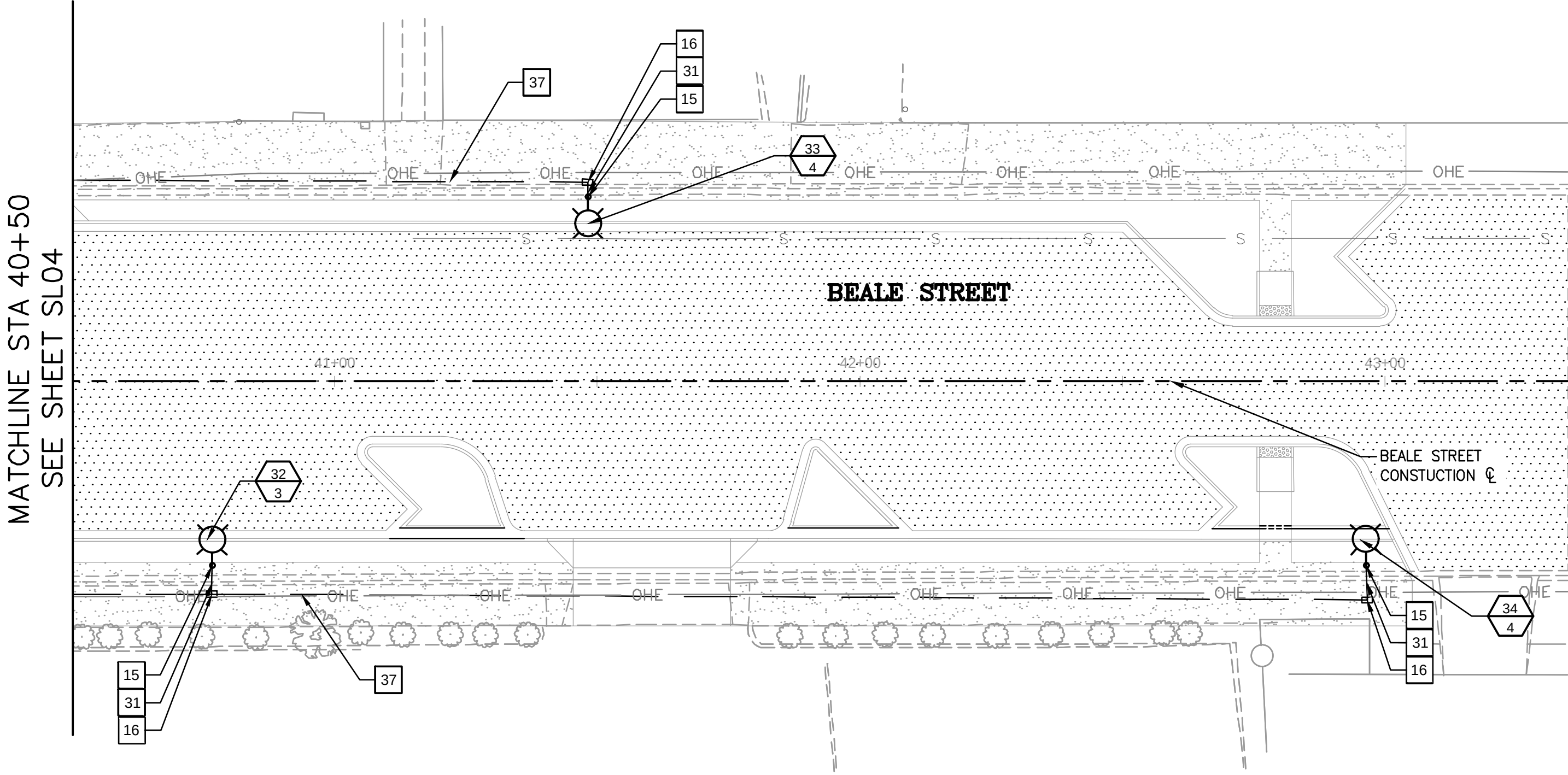


EXPIRES: 9/30/2024

PROJECT NO.  
3720205006

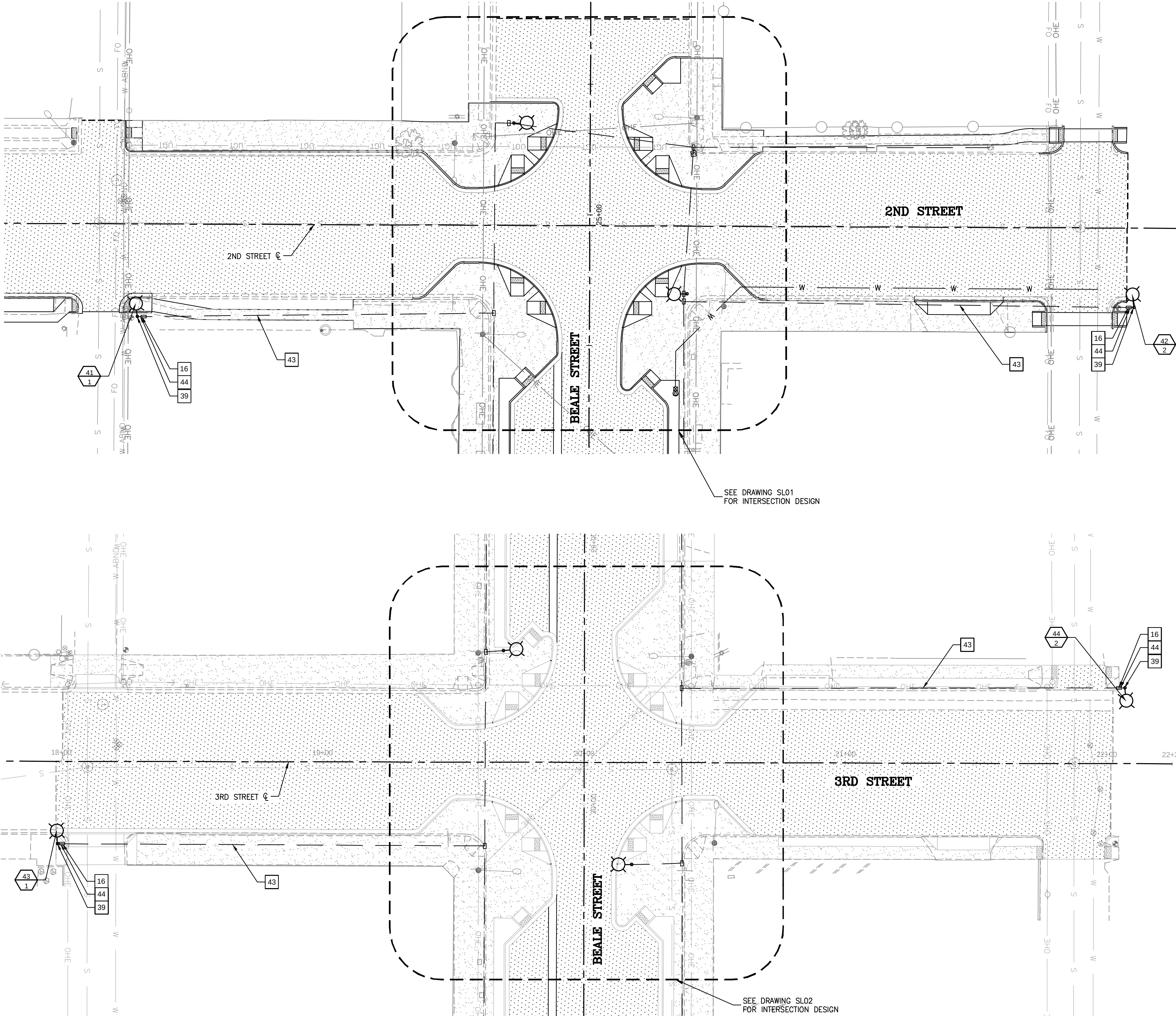
DRAWING NAME  
SL05

SHEET NO. 33 of 47





File: G:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-SL07.dwg



UNLESS OTHERWISE AGREED IN A WRITTEN CONTRACT BETWEEN WSP USA ENVIRONMENT & INFRASTRUCTURE, INC. AND ITS CLIENT, (I) THIS DOCUMENT CONTAINS INFORMATION, DATA AND DESIGN THAT IS CONFIDENTIAL AND MAY NOT BE COPIED OR DISCLOSED; AND (II) MAY ONLY BE USED BY THE CLIENT IN THE CONTEXT AND FOR THE EXPRESS PURPOSE FOR WHICH IT HAS BEEN DELIVERED. ANY OTHER USE OR RELIANCE ON THIS DOCUMENT BY ANY THIRD PARTY IS AT THAT PARTY'S SOLE RISK AND RESPONSIBILITY.

| 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:<br>A)SINGLE 2.5" CONDUIT WITH 2-#6 THWN AND 1 #8 BARE FOR STREETLIGHTS<br>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:<br>A)SINGLE 1.0" CONDUIT WITH 2-#10 THWN AND 1 #8 BARE FOR STREETLIGHTS<br>B)NO SPARE CONDUIT | 100 LF |

SL STREET LIGHT #  
CIR CIRCUIT #

### GENERAL CONSTRUCTION NOTES

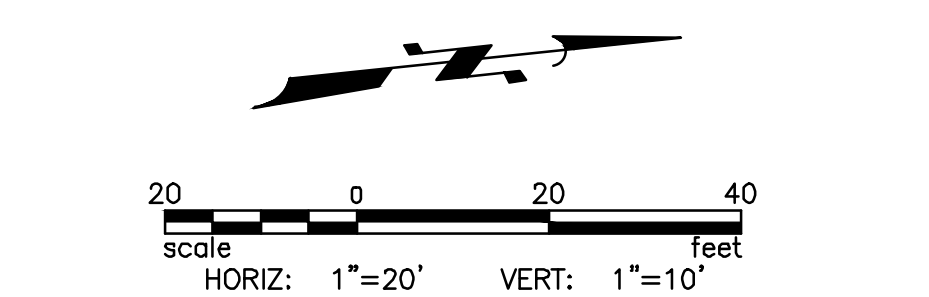
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION JANUARY 2022 EDITION AND THE CITY OF KINGMAN STANDARD DETAILS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING UNDERGROUND STRUCTURES AND UTILITIES. CO-OPERATE 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
- 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



REVISIONS:

|  |  |  |  |  |  |  |  |  |  |
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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

STREET LIGHT PLAN

KINGMAN DOWNTOWN INFRASTRUCTURE

BEALE ST - 1ST ST TO 6TH ST

KINGMAN, ARIZONA

PROJECT:

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

EXPIRES: 9/30/2024

PROJECT NO.  
3720205006

DRAWING NAME  
**SL07**  
SHEET NO. 34 of 52



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.
3. 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.
4. VARIANCE FROM THIS DRAWING AND/OR SPECIFICATIONS WILL REQUIRE PRIOR APPROVAL OF THE CITY ENGINEER.

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.
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## ASPHALT PAVEMENT

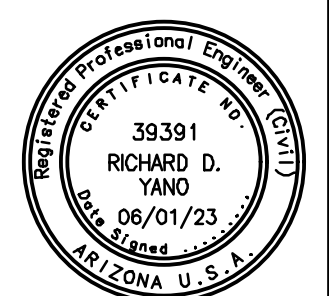


## ASPHALT PAVEMENT

# STREET LIGHT PLAN

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

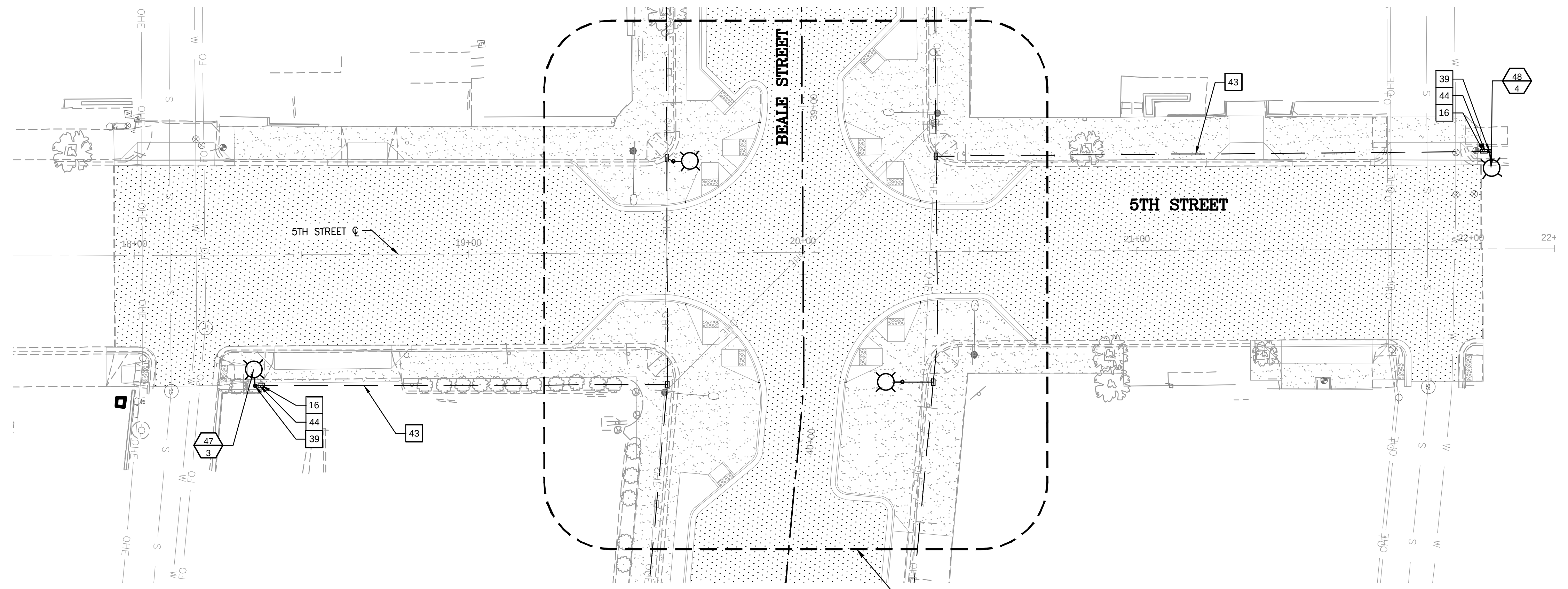
DESIGNED BY: HMR  
DRAWN BY: AA  
CHECKED BY: DY  
DATE: JUNE 2023



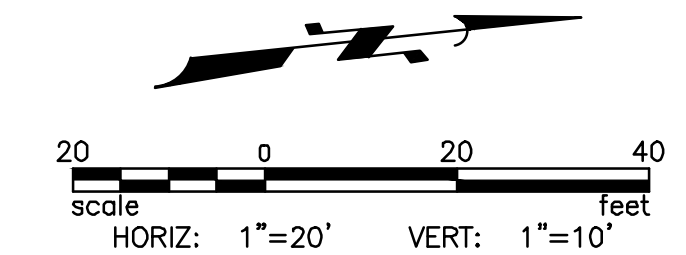
EXPIRES: 9/30/2024

PROJECT NO.  
3720205006

DRAWING NAME  
**SL08**  
SHEET NO. 35 of 52



SEE DRAWING SL03 FOR  
INTERSECTION DESIGN





|                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                                          |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------|--|
| <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 60%;"> <p><b>WSP USA Environment &amp; Infrastructure, Inc.</b><br/>           4600 E. WASHINGTON STREET, SUITE 600<br/>           PHOENIX, ARIZONA 85034<br/>           PHONE: 602-733-6000<br/>           FAX: 602-733-6100</p> </div> <div style="width: 35%; text-align: center;"> </div> </div> |  |                                                                                                                                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                                          |  |
| <p><b>LIGHTING EQUIPMENT DETAILS</b></p>                                                                                                                                                                                                                                                                                                                                                                  |  | <p><b>PROJECT: KINGMAN DOWNTOWN INFRASTRUCTURE</b><br/><br/> <b>BEALE ST - 1ST ST TO 6TH ST</b><br/> <small>KINGMAN, ARIZONA</small></p> |  |
| <p>DESIGNED BY: HMR<br/>         DRAWN BY: AA<br/>         CHECKED BY: DY<br/>         DATE: JUNE 2023</p>                                                                                                                                                                                                                                                                                                |  |                                                                                                                                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                                          |  |
| <p>EXPIRES: 9/30/2024</p>                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                                          |  |
| <p>PROJECT NO.<br/>3720205006</p>                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                                                          |  |
| <p>DRAWING NAME</p> <p style="font-size: 2em; font-weight: bold; text-align: center;">SL09</p> <p>SHEET NO. 36 of 52</p>                                                                                                                                                                                                                                                                                  |  |                                                                                                                                          |  |

page 5

CEMEX EMPEC EPIC MEDIUM LEAD

MOUNTING ACCESSORIES

Point mount arms are designed to fit both medium CEMEXEM fixtures. Only these arms are compatible with the CEMEXEM arm. Arm features a precision welded end and standard mounting bar by attachment of fixture heads to arm with four stainless steel fasteners. Weld mount arms complement point mount luminaires and effectively transfer fixture loads to lower mounting legs providing additional convenience. Weld mount arms are designed to fit both medium CEMEXEM fixtures. Arms feature a precision welded end aluminum mounting bar for attachment of fixture head to arm with four stainless steel fasteners.

**BI-POD SINGLE POLE MOUNT ARM**  
 SAG109 (Medium), SAG104 (Classical)  
 Slights over 4" round straight pole,  
 or 4" O.D. by 1/2" tall round lumens.  
 Weight: 24 lbs. E.P.A. 0.52

**BI-POD SINGLE POLE MOUNT ARM WITH CROSS ROD**  
 SAG109 (Medium), SAG104 (Classical)  
 Slights over 4" round straight pole,  
 or 4" O.D. by 1/2" tall round lumens.  
 Weight: 25 lbs. E.P.A. 0.58

**MODIFIED LOCATION OF PERIT  
 PHOTOCENSOR'S RECEPTACLE  
 FOR THIS PROJECT**  
 SAG106-BZ-PERIT-U135641

**BI-POD TWIN POLE MOUNT ARM WITH CROSS RODS**  
 SAG110 (Medium), SAG107 (Classical)  
 Slights over 4" round straight pole,  
 or 4" O.D. by 1/2" tall round lumens.  
 Weight: 39 lbs. E.P.A. 1.05

**TRADITIONAL SINGLE POLE MOUNT ARM**  
 SAG109 (Medium), SAG103 (Classical)  
 Slights over 4" round straight pole,  
 or 4" O.D. by 1/2" tall round lumens.  
 Weight: 22 lbs. E.P.A. 0.48

**TRADITIONAL SINGLE POLE MOUNT ARM WITH ROUNDED UPPER BAR**  
 SAG110 (Medium), SAG103 (Classical)  
 Slights over 4" round straight pole,  
 or 4" O.D. by 1/2" tall round lumens.  
 Weight: 26 lbs. E.P.A. 1.4

**TRADITIONAL SINGLE POLE MOUNT ARM WITH ROUNDED LOWER BAR**  
 SAG111 (Medium), SAG103 (Classical)  
 Slights over 4" round straight pole,  
 or 4" O.D. by 1/2" tall round lumens.  
 Weight: 25 lbs. E.P.A. 1.16

**TRADITIONAL SINGLE POLE MOUNT ARM WITH 45° UPPER BAR**  
 SAG112 (Medium), SAG103 (Classical)  
 Slights over 4" round straight pole,  
 or 4" O.D. by 1/2" tall round lumens.  
 Weight: 25 lbs. E.P.A. 1.38

**TRADITIONAL SINGLE POLE MOUNT ARM WITH LOWER BAR**  
 SAG113 (Medium), SAG103 (Classical)  
 Slights over 4" round straight pole,  
 or 4" O.D. by 1/2" tall round lumens.  
 Weight: 23 lbs. E.P.A. 1.17

**TRADITIONAL SINGLE POLE MOUNT ARM WITH 45° UPPER STRAP**  
 SAG114 (Medium), SAG103 (Classical)  
 Slights over 4" round straight pole,  
 or 4" O.D. by 1/2" tall round lumens.  
 Weight: 24 lbs. E.P.A. 1.17

**TRADITIONAL TWIN POLE MOUNT ARM**  
 SAG115 (Medium), SAG103 (Classical)  
 Slights over 4" round straight pole,  
 or 4" O.D. by 1/2" tall round lumens.  
 Weight: 34 lbs. E.P.A. 1.44

**COOPER**  
 Lighting Systems

November 29, 2023, 2:18 PM

TGS000701

Ref. 27612X  
 Drilling Pattern  
 Beale St Kingman  
 Project = Bracket  
 Factory Welded to  
 Pole

4" x 1/4" x 5" Blank  
 Alum. Bar Alloy 6063-T6

1 1/2" Channel x 1"  
 Long Alloy 6063-T6

**Bracket Channel**

- 1) 1/8" thick walls on channel.
- 2) 1/2" dimension from face of angle to face of channel.

**Bracket Angle**

- 1) No slotted holes, welded to pole.

| NO. | REVISIONS | DATE |
|-----|-----------|------|
|     |           |      |
|     |           |      |
|     |           |      |
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|     |           |      |
|     |           |      |

**hapco**  
 Abingdon, Va.

|                                |                        |
|--------------------------------|------------------------|
| TITLE<br><b>WREATH BRACKET</b> |                        |
| CUSTOMER                       |                        |
| SCALE <b>1.33</b>              | DATE <b>11/30/2022</b> |
| BY <b>LEH</b>                  | DWG. NO.               |
| CHK'D                          | <b>27499X</b>          |



