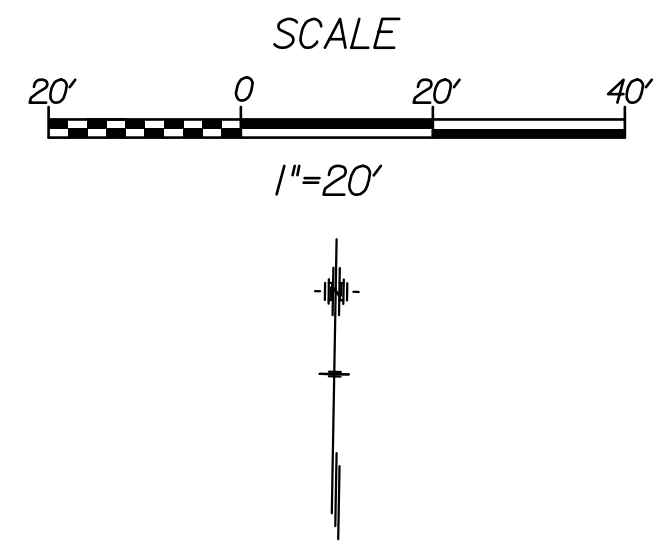
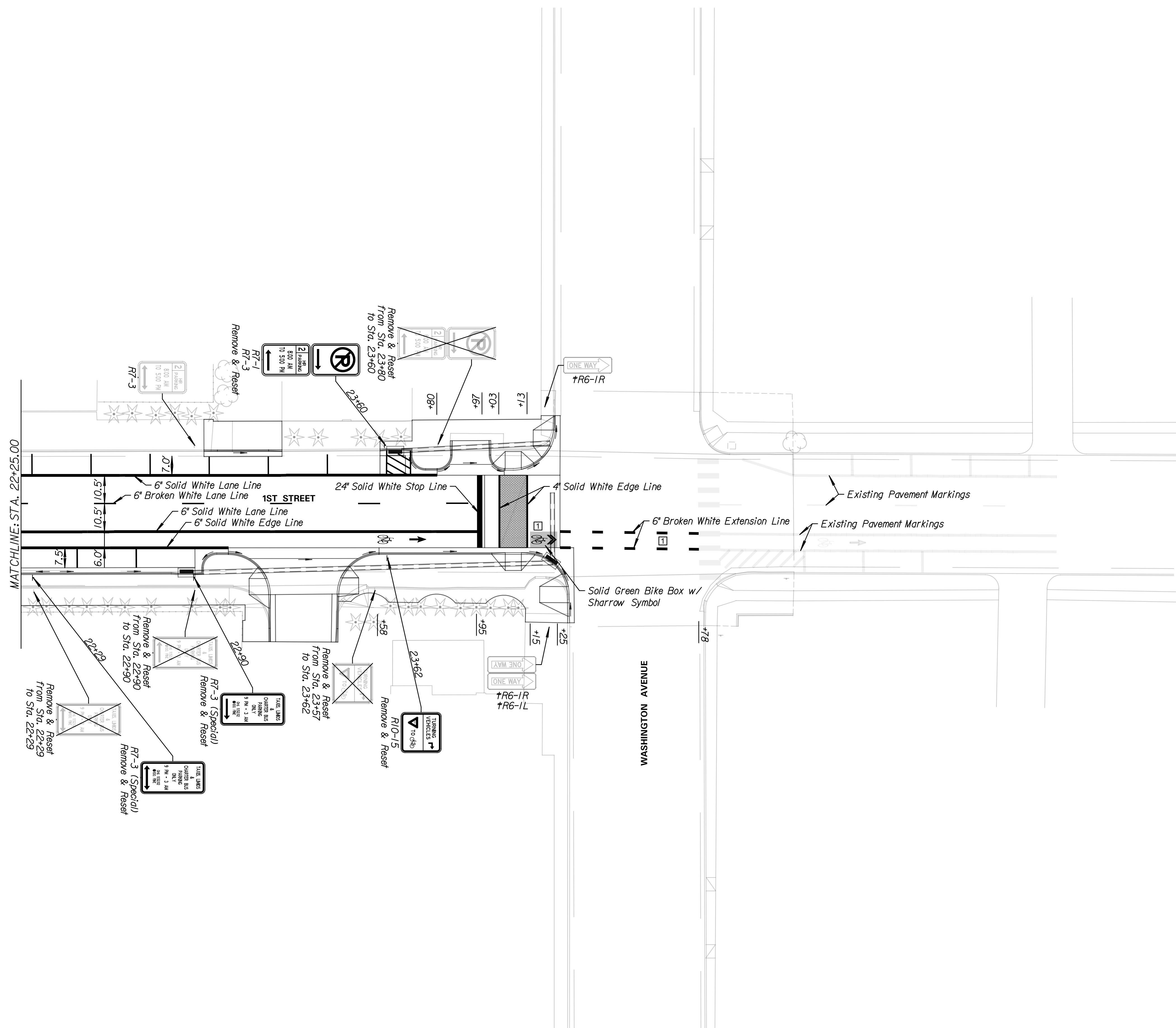


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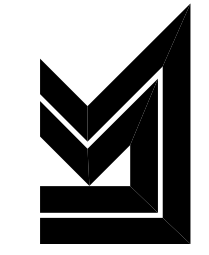
REVISIONS:

| NO. | DATE       | DESCRIPTION   |
|-----|------------|---|
| 1   | 07/25/2017 | ADDED GREEN BOX WITH SHARROW SYMBOL AND EXTENSION LINES |

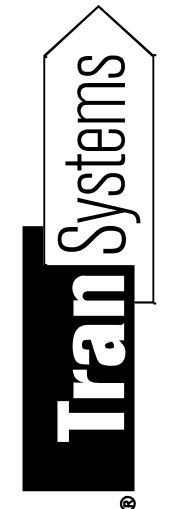
PROJ NO: 472-85285  
 SCALE: 1"=20'  
 DATE: 7/25/2017  
 DESIGNED BY: TAU  
 DRAWN BY: TAU  
 CHECKED BY: MDB

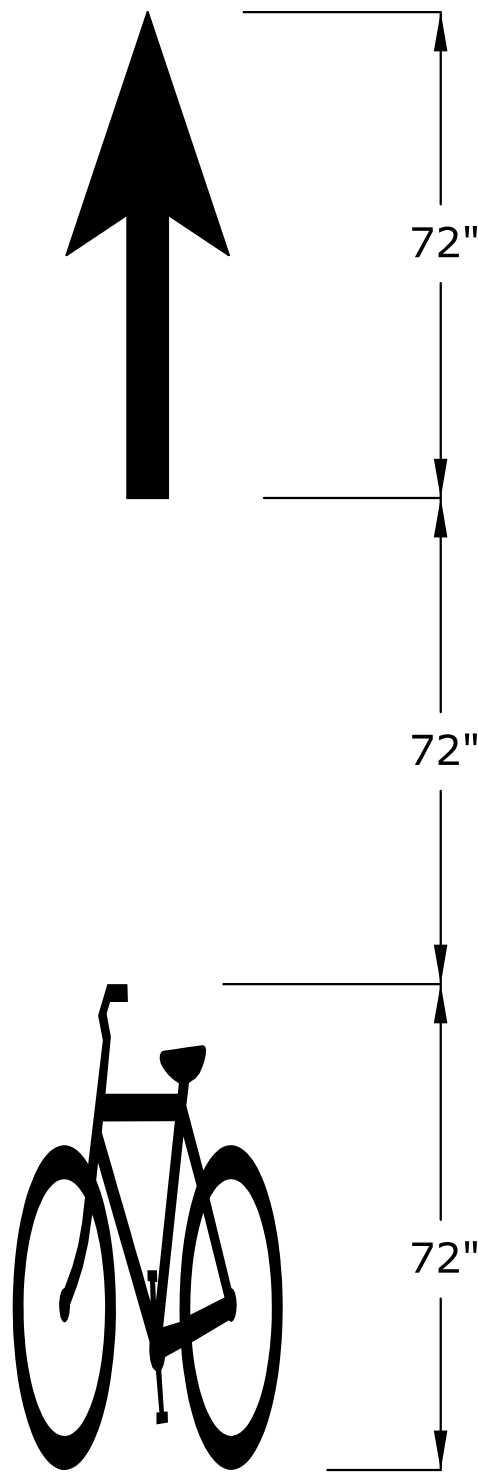
SHEET TITLE:  
**PAVMENT MARKING & SIGNING**  
 STA. 22+25.00 TO STA. 24+30.80

SHEET NO.  
**68**  
 SHEET 68 OF 90

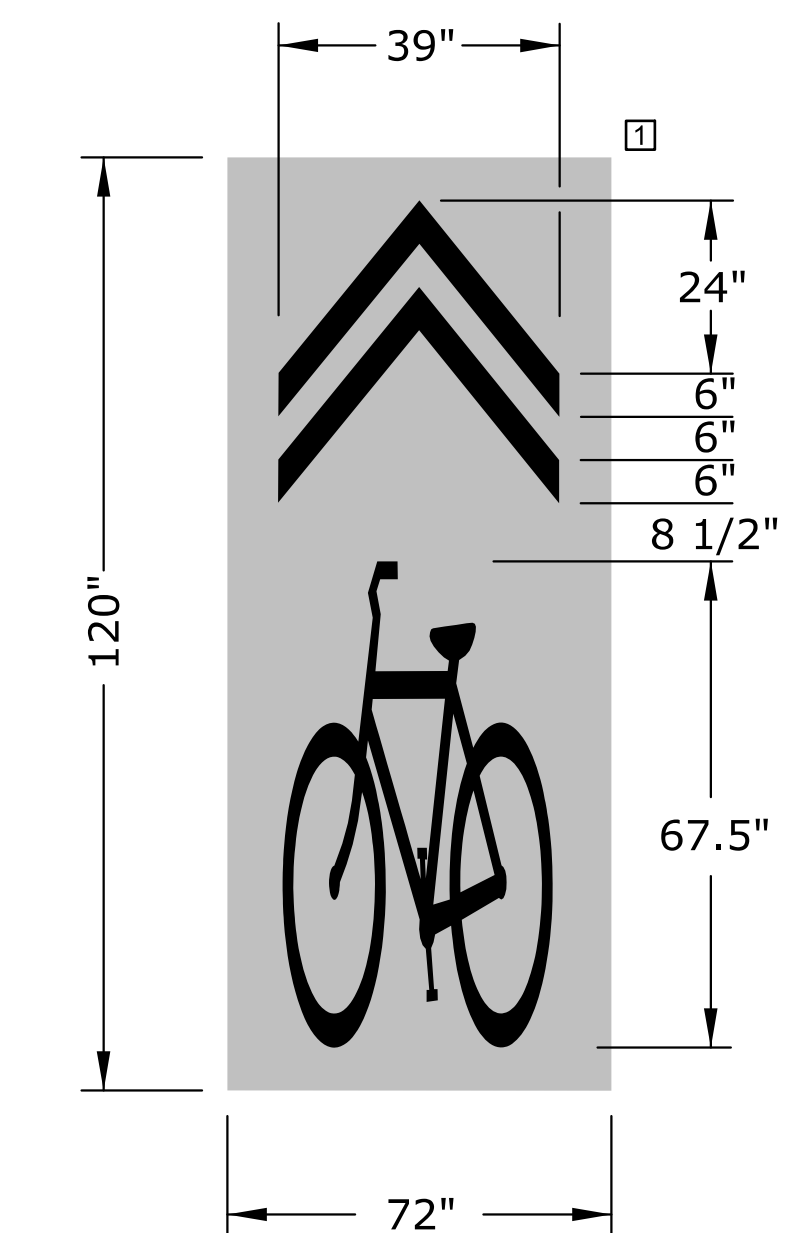
CONSULTANTS:  
  
 LK ARCHITECTURE, INC.  
 345 RIVERVIEW  
 SUITE 200  
 WICHITA, KANSAS 67208  
 PHONE: 316-268-0230

1ST STREET IMPROVEMENTS  
 SANTA FE TO WASHINGTON IN OLD TOWN  
 WICHITA, KANSAS  


  
 245 NORTH WACO  
 SUITE 222  
 WICHITA, KANSAS 67202  
 PHONE: 316-303-3000  
 FAX: 316-303-0156



THRU ARROW & BICYCLE SYMBOLS



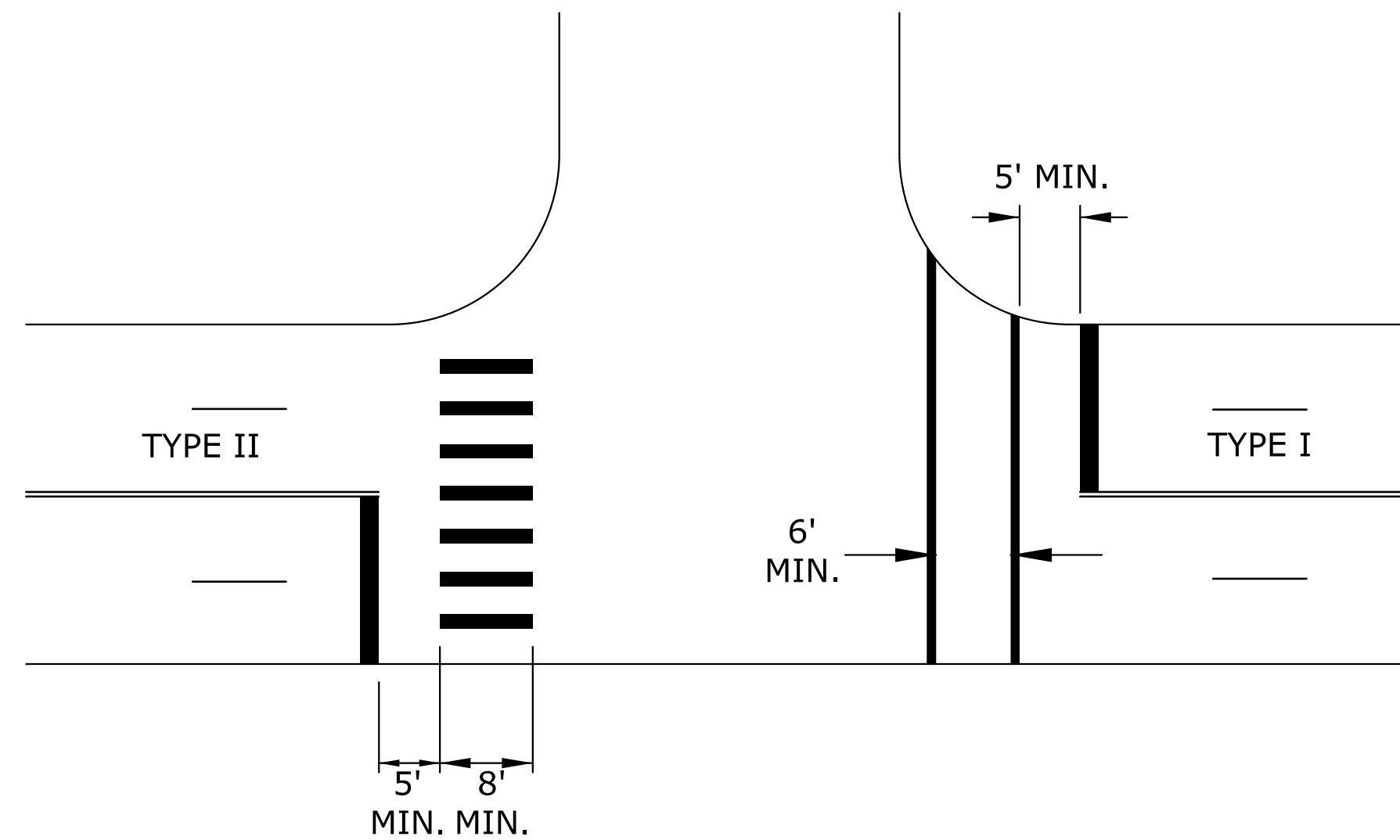
GREEN BIKE BOX WITH SHARROW SYMBOL

TYPICAL CROSSWALKS

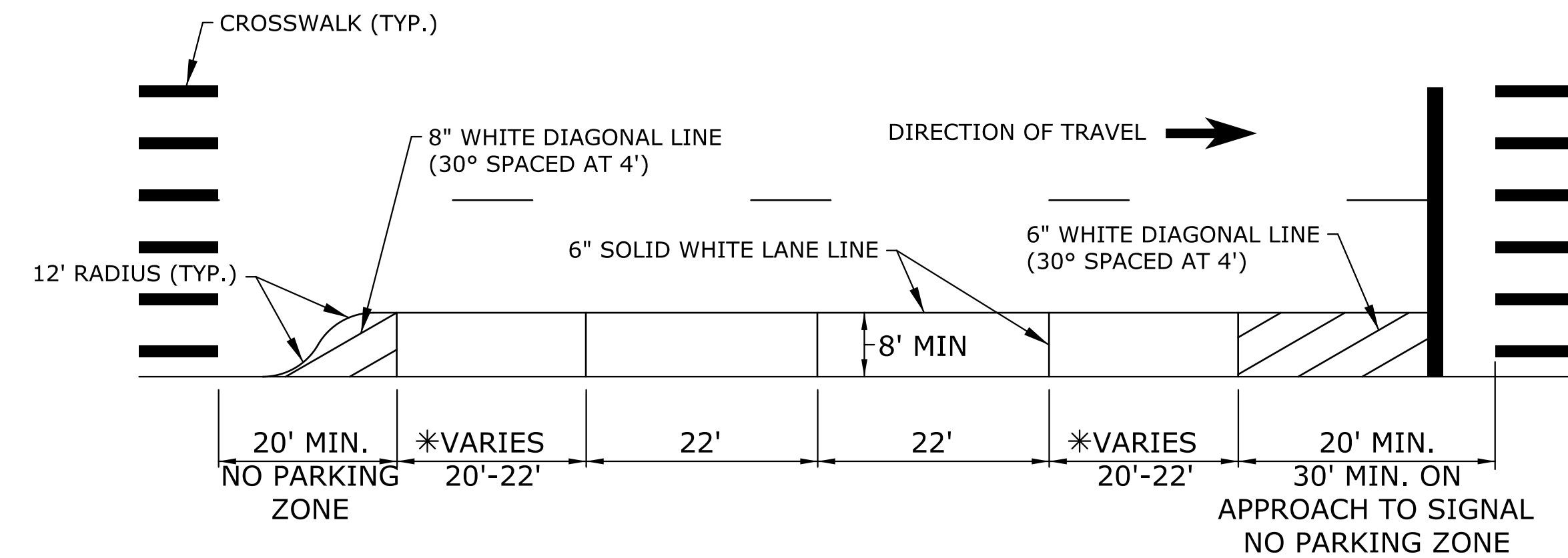
TYPE I: CROSSWALK LINES SHALL BE 12" SOLID WHITE LINES. THEY SHALL BE SPACED A MINIMUM OF 6' APART FROM INSIDE EDGE TO INSIDE EDGE.

TYPE II: THESE LINES SHOULD BE SOLID WHITE 24" WIDE PLACED PARALLEL TO THE DIRECTION OF TRAFFIC FLOW. THE LINE PLACEMENT IS DETERMINED BY LANE LINE, CENTER LINE, AND WHEEL PATH IN SUCH A MANNER AS TO MINIMIZE TRAFFIC WEAR. THE CROSSWALK WIDTH SHOULD BE NOT LESS THAN 8'. THE TRANSVERSE CROSSWALK LINES MAY BE ADDED.

WHEN REQUIRED, STOP LINES SHALL BE INSTALLED A MINIMUM OF 5' FROM CROSSWALKS.



TYPICAL PARKING SPACE MARKINGS



\* END SPACES MAY BE 20' ONLY. ALL OTHER PARKINGS SPACES SHALL BE A MINIMUM OF 22'

SUMMARY OF PAVEMENT MARKING QUANTITIES (FOR INFORMATION ONLY)

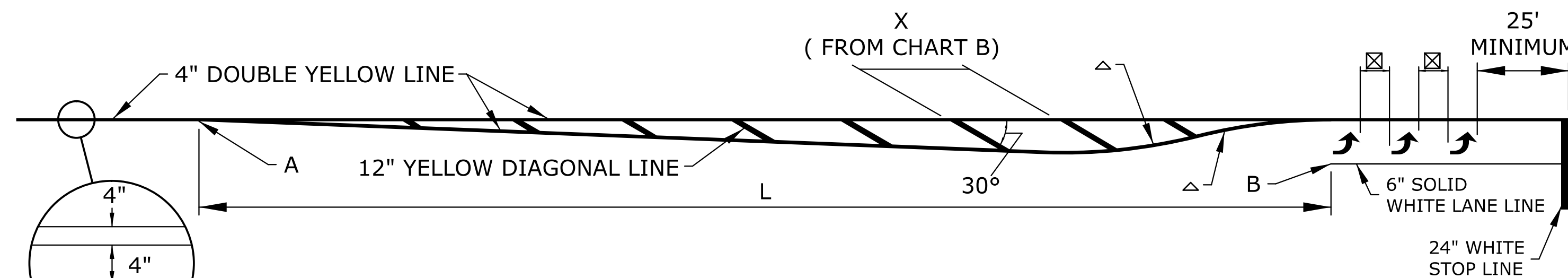
| ITEMS   | TOTAL | UNITS |
|---|-------|-------|
| PAVEMENT MARKING (EPOXY)(WHITE)(4")           | 54    | LF    |
| PAVEMENT MARKING (EPOXY)(WHITE)(6")           | 3213  | LF    |
| PAVEMENT MARKING (EPOXY)(WHITE)(24")          | 316   | LF    |
| PAVEMENT MARKING (EPOXY)(WHITE)(BICYCLE)      | 6     | EA    |
| PAVEMENT MARKING (EPOXY)(WHITE)(THRU ARROW)   | 6     | EA    |
| PAVEMENT MARKING (EPOXY)(WHITE)(SHARED LANE)  | 1     | EA    |
| PAVEMENT MARKING (EPOXY)(GREEN)(BICYCLE LANE) | 61    | LF    |
| REMOVAL OF EXISTING MARKINGS (GRINDING)       | 5000  | LF    |

All pavement markings shall be epoxy meeting City of Wichita specifications and special provisions.

Removal of existing pavement markings which conflict with proposed pavement markings shall be paid for by the bid item "Removal of Existing Markings (grinding)". All materials, labor and equipment necessary to complete this work shall be included in this bid item, and will be paid for by the linear ft regardless of width removed.

Pavement marking shall be paid for by the Lump Sum bid item, "Pavement Marking".

TYPICAL APPROACH TAPER DETAIL



THE APPROACH TAPER LENGTH FROM POINT A TO POINT B IS TO BE DETERMINED USING CHART C. VALUES FOR L WERE CALCULATED USING THE EQUATIONS BELOW AND INCREASED TO THE NEXT HIGHER 5 MPH INCREMENT.

- SPEEDS < 45 MPH  $L = \frac{W * S^2}{60}$

- SPEEDS = 45 MPH  $L = W * S$

IF ARROWS ARE USED AND UNLESS OTHERWISE SPECIFIED THE SPACE BETWEEN LINES SHOULD BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTERS FOR LOW SPEED ROADS BUT NOT MORE THAN TEN TIMES THE HEIGHT OF THE CHARACTERS, UNDER ANY CONDITIONS.

FOR SPEEDS LESS THAN OR EQUAL TO 40 MPH, R=150'.  
FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH, R=300'.

CHART "B"

| APPROACH SPEED | X   |
|----------------|-----|
| 20 MPH         | 20' |
| 25 MPH         | 25' |
| 30 MPH         | 30' |
| 35 MPH         | 35' |
| 40 MPH         | 40' |
| 45 MPH         | 45' |
| 50 MPH         | 50' |
| 55 MPH         | 55' |
| 60 MPH         | 60' |
| 65 MPH         | 65' |
| 70 MPH         | 70' |

CHART "C"

| APPROACH SPEED | L    |
|----------------|------|
| 20 MPH         | 80'  |
| 25 MPH         | 125' |
| 30 MPH         | 180' |
| 35 MPH         | 245' |
| 40 MPH         | 320' |
| 45 MPH         | 540' |
| 50 MPH         | 600' |
| 55 MPH         | 660' |
| 60 MPH         | 720' |
| 65 MPH         | 780' |
| 70 MPH         | 840' |

| REVISIONS: | DATE       | DESCRIPTION                               |
|------------|------------|---|
| 1          | 07/25/2017 | ADDED DETAIL AND UPDATED/ADDED QUANTITIES |

PROJ NO: 472-85285  
SCALE: NTS  
DATE: 7/25/2017  
DESIGNED BY: TAU  
DRAWN BY: TAU  
CHECKED BY: MDB

SHEET TITLE:  
TYPICAL MISC. PAVEMENT MARKING DETAILS & SUMMARY OF QUANTITIES

SHEET NO.  
69  
SHEET 69 OF 90