

SPECIFICATIONS AND STANDARD CONSTRUCTION DRAWINGS

THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIALS SPECIFICATIONS (CMS), DATED JANUARY 1, 2019, THE CITY OF CINCINNATI SUPPLEMENT TO THE 2019 ODOT CMS, AND THE NOTED STANDARD CONSTRUCTION DRAWINGS SHALL GOVERN THIS IMPROVEMENT.

WHEREVER THE WORD "DIRECTOR" OR "ENGINEER" OCCURS, IT IS TO MEAN THE CITY OF CINCINNATI DEPARTMENT OF TRANSPORTATION MANAGER AND/OR HIS DESIGNATED REPRESENTATIVE, LIMITED TO THE PARTICULAR DUTIES ENTRUSTED TO HIM.

PRE-CONSTRUCTION MEETING

FOLLOWING THE AWARD OF THE CONTRACT AND BEFORE STARTING ANY WORK, THE CONTRACTOR AND HIS SUPERINTENDENT, SHALL MEET WITH THE ENGINEER FOR A PRE-CONSTRUCTION MEETING. THE PURPOSE OF SUCH IS FOR REVIEWING THE SITE, AND ANY RESTRICTIONS AND REGULATIONS GOVERNING THE WORK.

ANY SCHEDULES, REQUESTS, PAPERS, APPROVALS, SUBMITTALS, SHOP DRAWINGS, CHANGES, ETC. AS CALLED FOR IN THE CONTRACT DOCUMENTS SHALL BE DONE AT THIS TIME UNLESS OTHERWISE DIRECTED.

PERMITS, FEES AND NOTICES

THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ANY AND ALL PERMITS AND INSPECTIONS REQUIRED FOR THE PROSECUTION OF THE WORK BY LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS.

MATERIALS AND WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE NEW AND BOTH WORKMANSHIP AND MATERIALS SHALL BE OF THE FIRST QUALITY, PROPER AND SUFFICIENT FOR THE PURPOSE CONTEMPLATED. THE CONTRACTOR SHALL FURNISH, IF SO REQUIRED, SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF MATERIALS AND WORKMANSHIP. ALL ITEMS OF EQUIPMENT AND/OR MATERIALS PROPOSED FOR SUBSTITUTION MUST BE APPROVED BY THE ENGINEER IN WRITING AND SHALL BE EQUAL OR BE SUPERIOR TO THE ITEMS SPECIFIED IN THE CONTRACT DOCUMENTS. IF SAID SUBSTITUTION PROPOSED BY THE CONTRACTOR FOR A SPECIFIED ITEM REQUIRED ENGINEERING REVISIONS, THE EXPENSE OF SUCH REVISIONS SHALL BE PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

EXISTING FACILITIES

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM HIS WORK IN SUCH A MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING FACILITY. IF ANY SUCH DAMAGE DOES OCCUR DUE TO THE CONTRACTOR'S OPERATIONS, HE SHALL REPLACE THE DAMAGED PORTION AT HIS EXPENSE AND TO THE SATISFACTION OF THE OWNER.

CONSTRUCTION LIMITS

THE CONTRACTOR SHALL RESTRICT ALL OF HIS ACTIVITIES, EQUIPMENT STORAGE AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE ACTUAL CONSTRUCTION LIMITS ARE SHOWN ON THE PLANS OR THE EXISTING OR PROPOSED R/W, WHICHEVER IS NEAREST. SHOULD THE CONTRACTOR WISH TO USE ANY AREA OUTSIDE THESE LIMITS, HE MUST SUBMIT HIS REQUEST IN WRITING TO THE ENGINEER. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA THAT THE CONTRACTOR PLANS TO USE AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. THE ENGINEER SHALL APPROVE THE REQUEST IN WRITING BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA. PRIOR TO THE BEGINNING OF WORK, THE REPRESENTATIVE OF THE MAINTAINING AGENCY SHALL REVIEW AND RECORD ALL ADJACENT SITES WITHIN THE RIGHT-OF-WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF THE ADJACENT SITES WILL BE MADE. ANY AREAS DAMAGED BEYOND THE CONSTRUCTION LIMITS AS DEFINED ABOVE WILL BE REPAIRED OR REPLACED, AT THE CONTRACTOR'S EXPENSE, IN KIND OR AS DIRECTED BY THE ENGINEER.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CONSTRUCTION NOTIFICATION

THE CONTRACTOR WILL ADVISE THE PROJECT ENGINEER A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO THE FOLLOWING: THE START OF CONSTRUCTION ACTIVITIES, LANE CLOSURES, OR ROAD CLOSURES. THE CITY ENGINEER WILL FORWARD THIS INFORMATION TO THE CITY OFFICIAL RESPONSIBLE FOR PUBLIC NOTIFICATION. THIS OFFICIAL WILL, IN TURN, NOTIFY THE PUBLIC, THE LOCAL EMERGENCY SERVICES, AFFECTED SCHOOLS AND BUSINESSES, AND ANY OTHER IMPACTED LOCAL PUBLIC AGENCY OF ANY OF THE ABOVE MENTIONED ITEMS, VIA MEDIA SOURCES.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED CONSTRUCTION-TYPE DEVICE SHALL NOT BE OPERATED BETWEEN THE HOURS OF 9:00 PM AND 7:00 AM. IN ADDITION, ANY SUCH DEVICE SHALL NOT BE OPERATED AT ANY TIME IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

WEATHER CONDITIONS

NO CONSTRUCTION SHALL BE DONE DURING STORMY, FREEZING, OR INCLEMENT WEATHER UNLESS PERMISSION IS GIVEN BY THE ENGINEER. WHENEVER WORK PROCEEDS DURING SUCH WEATHER, THE CONTRACTOR SHALL PROVIDE APPROVED FACILITIES, INCLUDING HEAT (IF REQUIRED), FOR THE PROTECTION OF ALL MATERIALS AND FINISHED WORK.

COOPERATION WITH UTILITY COMPANIES

WHILE THE WORK OF THIS CONTRACT IS BEING PERFORMED, THE UTILITY COMPANIES MAY BE WORKING IN THE AREA ADJUSTING AND RESETTNG EXISTING FACILITIES. THE CONTRACTOR SHALL FULLY COOPERATE WITH UTILITY COMPANIES SO THAT THE ENTIRE WORK IS COMPLETED IN A MANNER CONSISTENT WITH GOOD CONSTRUCTION PRACTICES. THE CONTRACTOR, UTILITIES, AND ENGINEER SHALL DISCUSS THE NECESSARY CONSTRUCTION SCHEDULES TO COMPLETE THE PROJECT AT THE PRE-CONSTRUCTION MEETING.

UTILITIES NOTIFICATION

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER, THE REGISTERED UTILITY PROTECTION SERVICE AND THE OWNERS OF EACH UNDERGROUND UTILITY FACILITY SHOWN ON THE PLAN.

THE OWNER OF THE UNDERGROUND FACILITY SHALL, WITHIN 48 HOURS (EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS), MARK THE LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE AND THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF THE PLANNED CONSTRUCTION.

UTILITY COORDINATION

THE FOLLOWING IS A LIST OF THE KNOWN EXISTING UTILITIES IN THE PROJECT AREA ALONG WITH THE RESPECTIVE OWNERS. THE LIST IS INCLUDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY OWNERS IN THE PROJECT AREA PRIOR TO START OF CONSTRUCTION WHETHER LISTED ON THIS PAGE OR NOT.

DUKE ENERGY - TRANSMISSION
139 EAST FOURTH STREET
ROOM 552A
CINCINNATI, OHIO 45202
CONTACT: TIM MEYER
(513) 287-1266

DUKE ENERGY - DISTRIBUTION
2010 DANA AVENUE
CINCINNATI, OHIO 45207
CONTACT: AARON WRIGHT
(513) 458-3856

DUKE ENERGY - GAS
139 EAST FOURTH STREET
PO BOX 960, RM 460-A
CINCINNATI, OHIO 45202
OH/KYHOUSEBIL@DUKE-ENERGY.COM

CHARTER COMMUNICATIONS
10920 KENWOOD ROAD
BLUE ASH, OHIO 45242
CONTACT: JIM O'REILLY
(513) 386-5483
DL-SOUTHERN-OHIO-OUTSIDE-PLANT@CHARTER.COM

ALTA FIBER (CINCINNATI BELL)
221 EAST FOURTH STREET
BLDG 121-900
CINCINNATI, OHIO 45201
ROADPROJECTS@CINBELL.COM

MSD
1600 GEST STREET
CINCINNATI, OHIO 45204
MSDUTILITYREVIEW@CINCINNATI-OH.GOV

GCWW
4747 SPRING GROVE AVENUE
CINCINNATI, OHIO 45232
CONTACT: JON HUNSEDER
(513) 591-5056

SMU
4747 SPRING GROVE AVENUE
CINCINNATI, OHIO 45232
CONTACT: ROBERT GOODPASTOR
(513) 591-7746
ROBERT.GOODPASTOR@CINCINNATI-OH.GOV

EXAMINATION OF THE SITE

THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PLANS AND SPECIFICATIONS. THE SUBMISSION OF A BID SHALL BE CONSIDERED EVIDENCE THAT THE CONTRACTOR HAS MADE SUCH EXAMINATION AND IS SATISFIED AS TO THE CONDITIONS TO BE ENCOUNTERED IN PERFORMING THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

DOWN TIME DUE TO FIELD CONFLICTS

DURING THE CONSTRUCTION ACTIVITIES OF THIS PROJECT, THERE MAY BE TIMES WHEN THE CONSTRUCTION IN SOME AREAS MAY NEED TO BE SUSPENDED PENDING FEED BACK ON, OR A RESOLUTION OF AN ISSUE WITH THE OWNER AND/ OR ENGINEER. THE CONTRACTOR, IN THIS CASE SHALL MOVE THE CREWS AND EQUIPMENT TO WORK IN A DIFFERENT AREA OR ON A DIFFERENT TASK. COST OF MOBILIZING AND DEMOBILIZING OF THE CONTRACTORS WORK CREWS AND EQUIPMENT INCLUDING ANY " DOWNTIME" SHALL BE INCIDENTAL TO THE OVERALL BID PRICE FOR THIS PROJECT.

SECURITY AND PROTECTION PROVISIONS

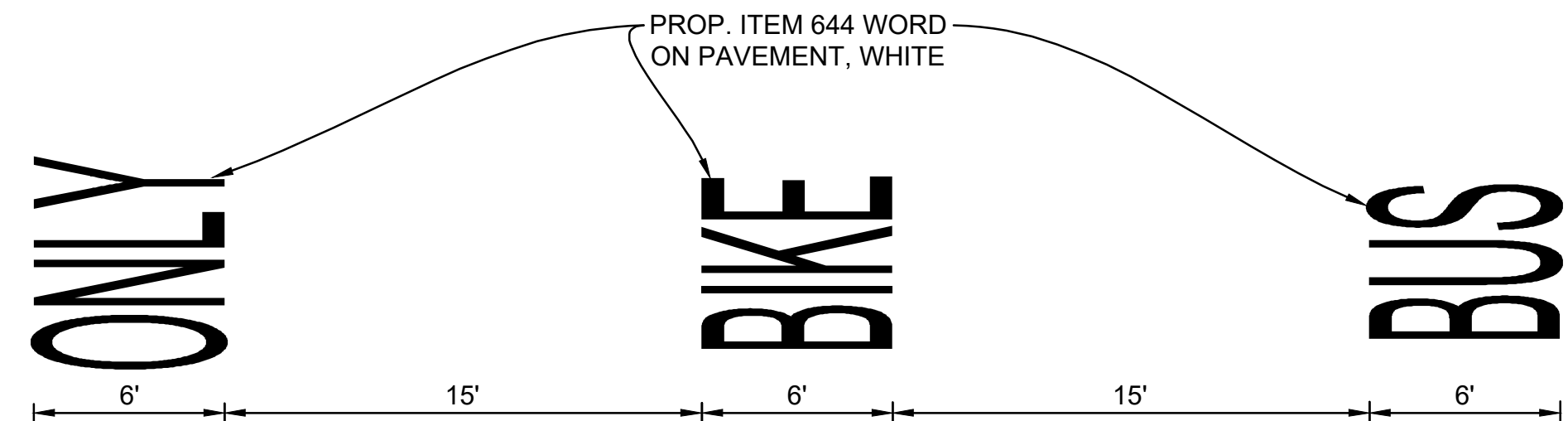
THE TYPES OF TEMPORARY SECURITY AND PROTECTION PROVISIONS REQUIRED INCLUDE, BUT NOT BY WAY OF LIMITATION, BARRICADES, WARNING SIGNS/LIGHTS, SITE ENCLOSURE FENCE, ETC. AND SIMILAR PROVISIONS INTENDED TO MINIMIZE PROPERTY LOSSES, PERSONAL INJURIES AND CLAIMS FOR DAMAGE TO THE PROJECT SITE. THE CONTRACTOR SHALL PROVIDE ANY PROTECTION SERVICES AND SYSTEMS IN COORDINATION WITH ACTIVITIES AND IN A MANNER TO ACHIEVE 24-HOUR, 7-DAY PER-WEEK EFFECTIVENESS.

TRENCHES THAT ARE OPEN SHALL NOT REMAIN UNPROTECTED AT ANY TIME. DURING NON-WORKING HOURS, TRENCHES SHALL BE CLOSED AND ANY EQUIPMENT ON THE SITE SHALL BE ADEQUATELY FENCED.

SHOP DRAWINGS

THE PROJECT SHALL MEET THE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND DETAILS OUTLINED IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW ONLY FOR DEVIATIONS FROM WHAT IS SPECIFIED ON THESE PLANS. SHOP DRAWINGS SUBMITTED TO THE ENGINEER FOR REVIEW UNDER THESE CONDITIONS SHALL CLEARLY IDENTIFY THE AREAS THAT DIFFER FROM THE STANDARDS CALLED OUT IN THE CONSTRUCTION DOCUMENTS AND/OR DETAILS.

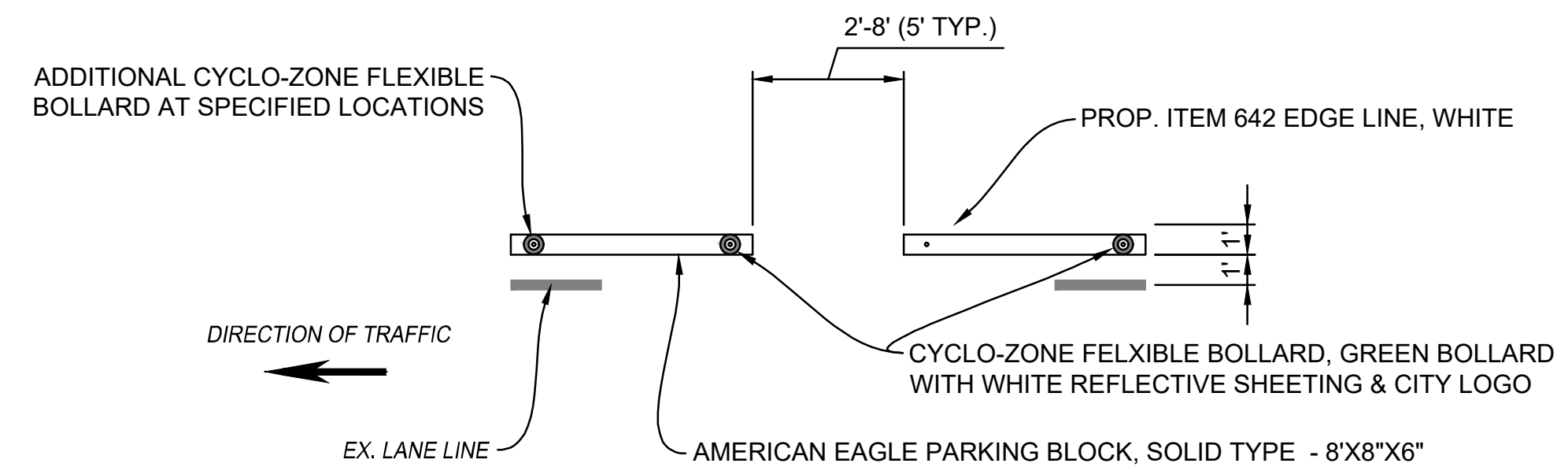
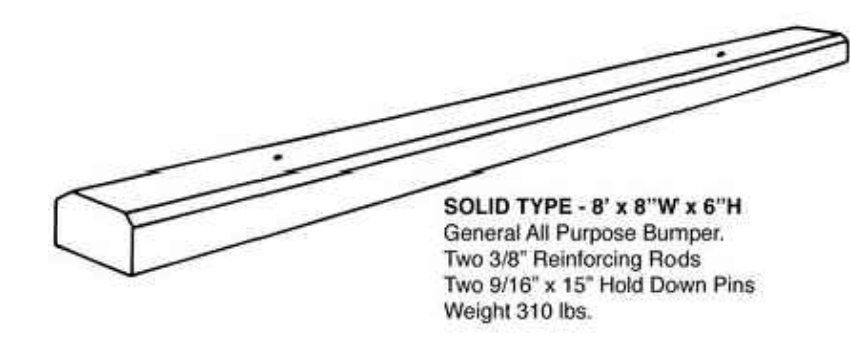




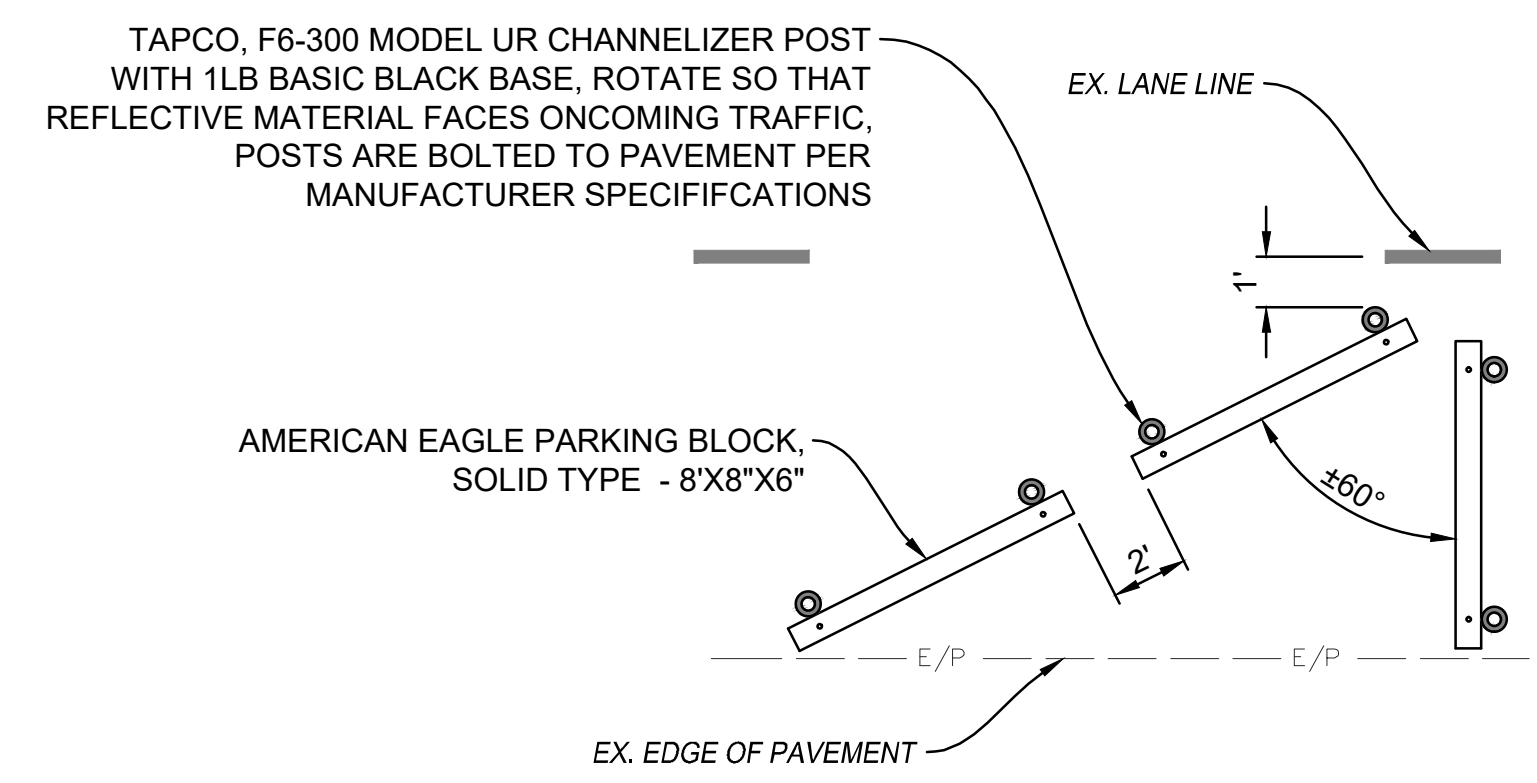
BUS STOP MARKING DETAIL

American Eagle Parking Bumpers
 Air Entrained
 4,000 PSI Concrete
 All Types Available in 8' Lengths
 Special Sizes Upon Request

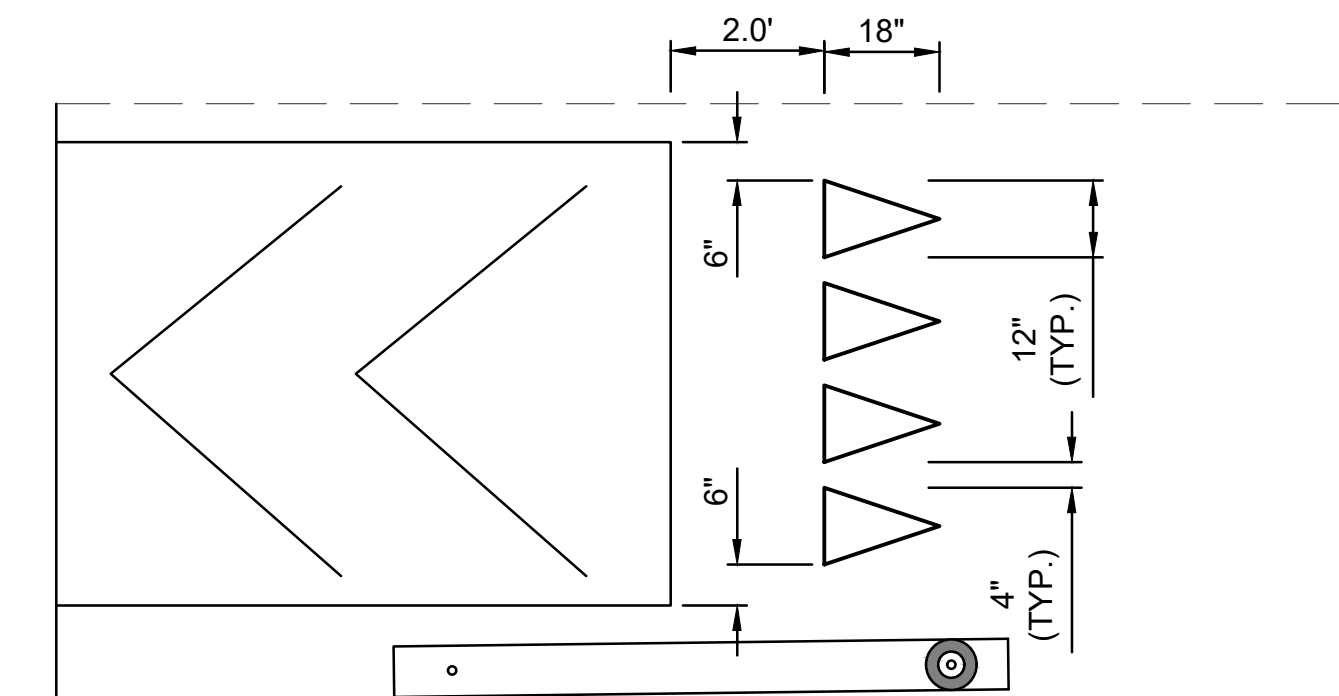
AMERICAN EAGLE PRECAST, LLC
 17301 Conant Avenue Detroit, MI 48212-1198
 Phone: 313-893-6700 Fax: 313-893-5322
 www.americaneagleprecast.com



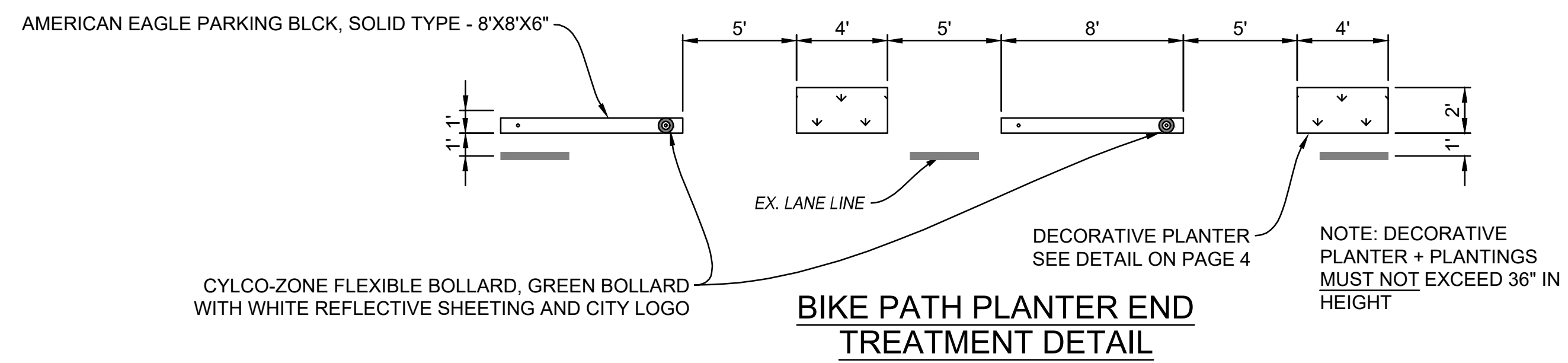
BIKE PATH PROTECTION DETAIL



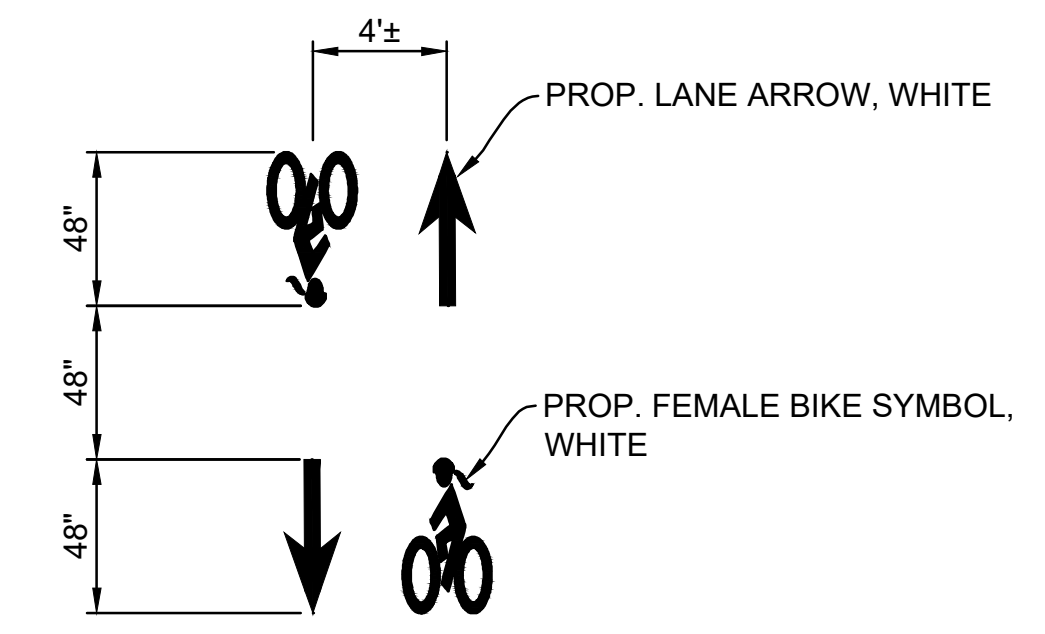
PARKING PROTECTION WITH FLEXIBLE DELINEATOR POSTS DETAIL



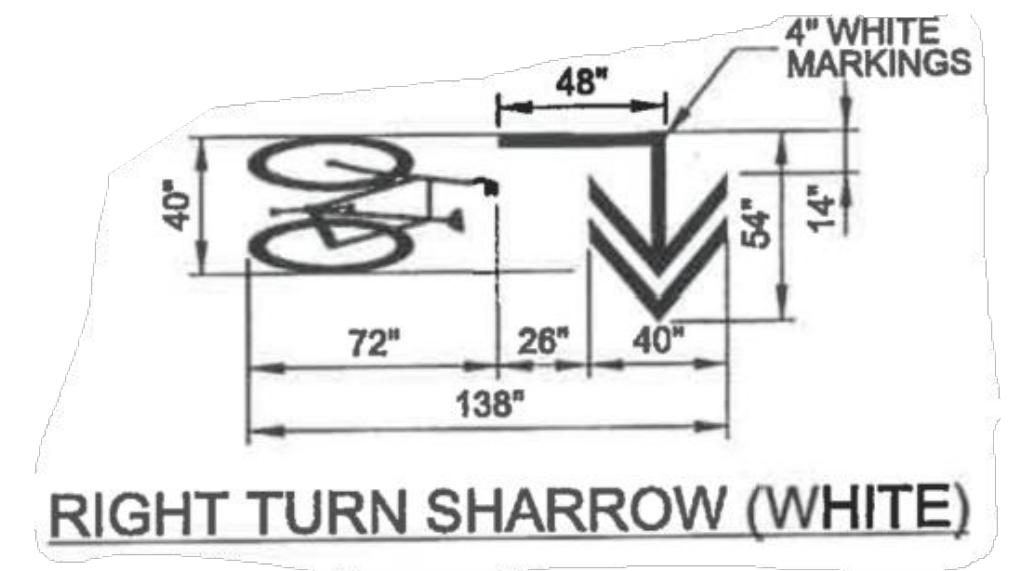
BIKE YIELD MARKING DETAIL



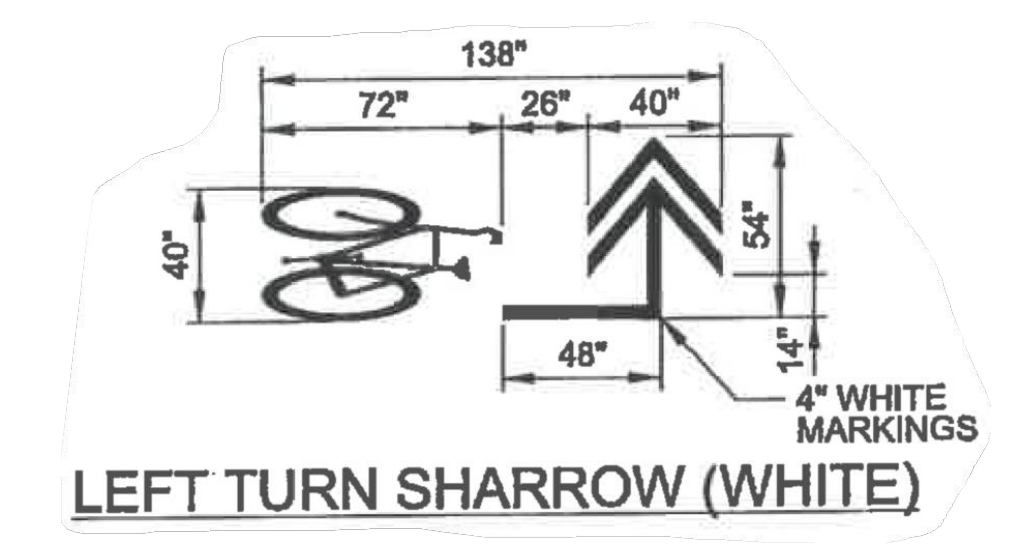
BIKE PATH PLANTER END TREATMENT DETAIL



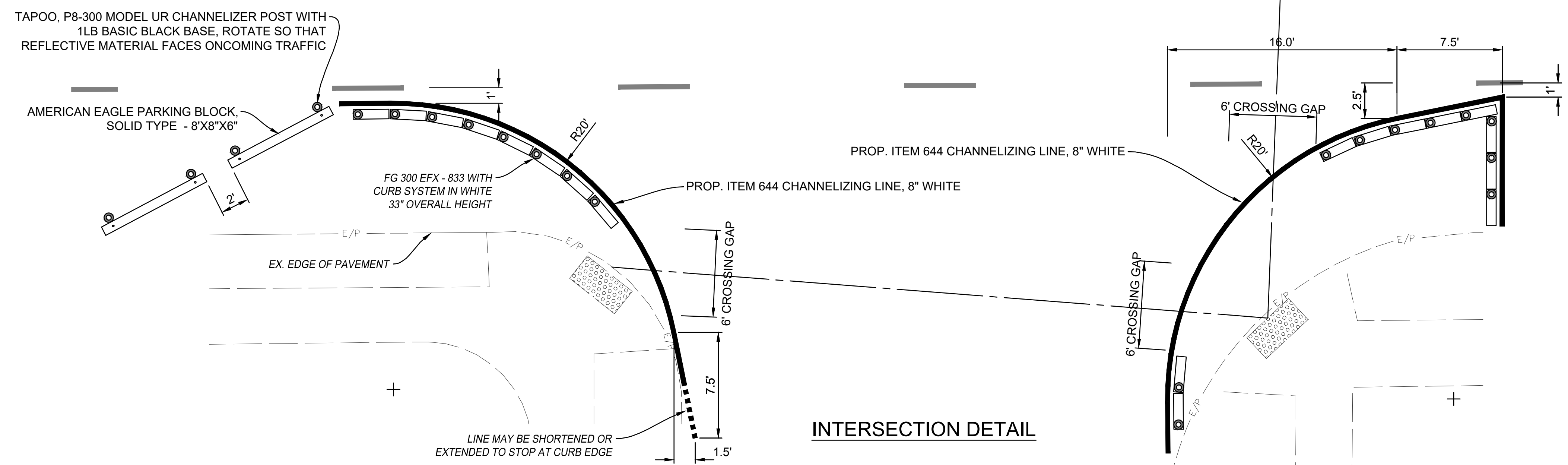
BIKE PATH PAVEMENT MARKING DETAIL



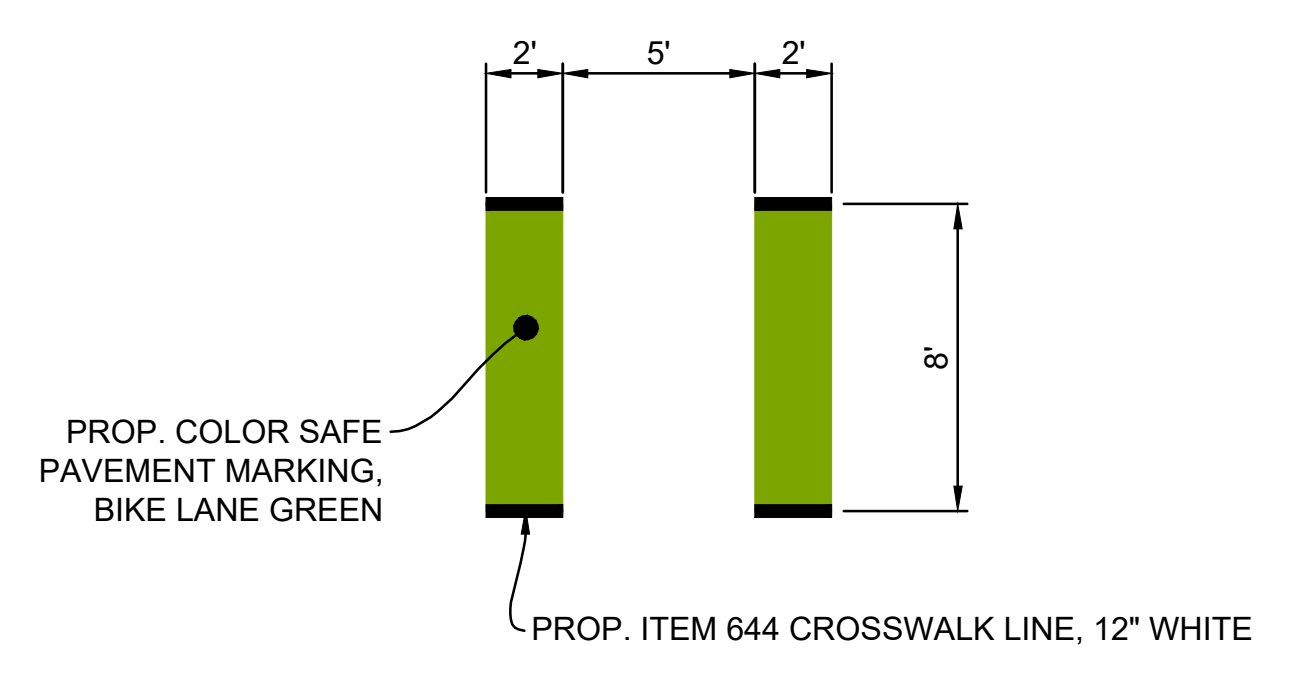
RIGHT TURN SHARROW (WHITE)



LEFT TURN SHARROW (WHITE)



INTERSECTION DETAIL



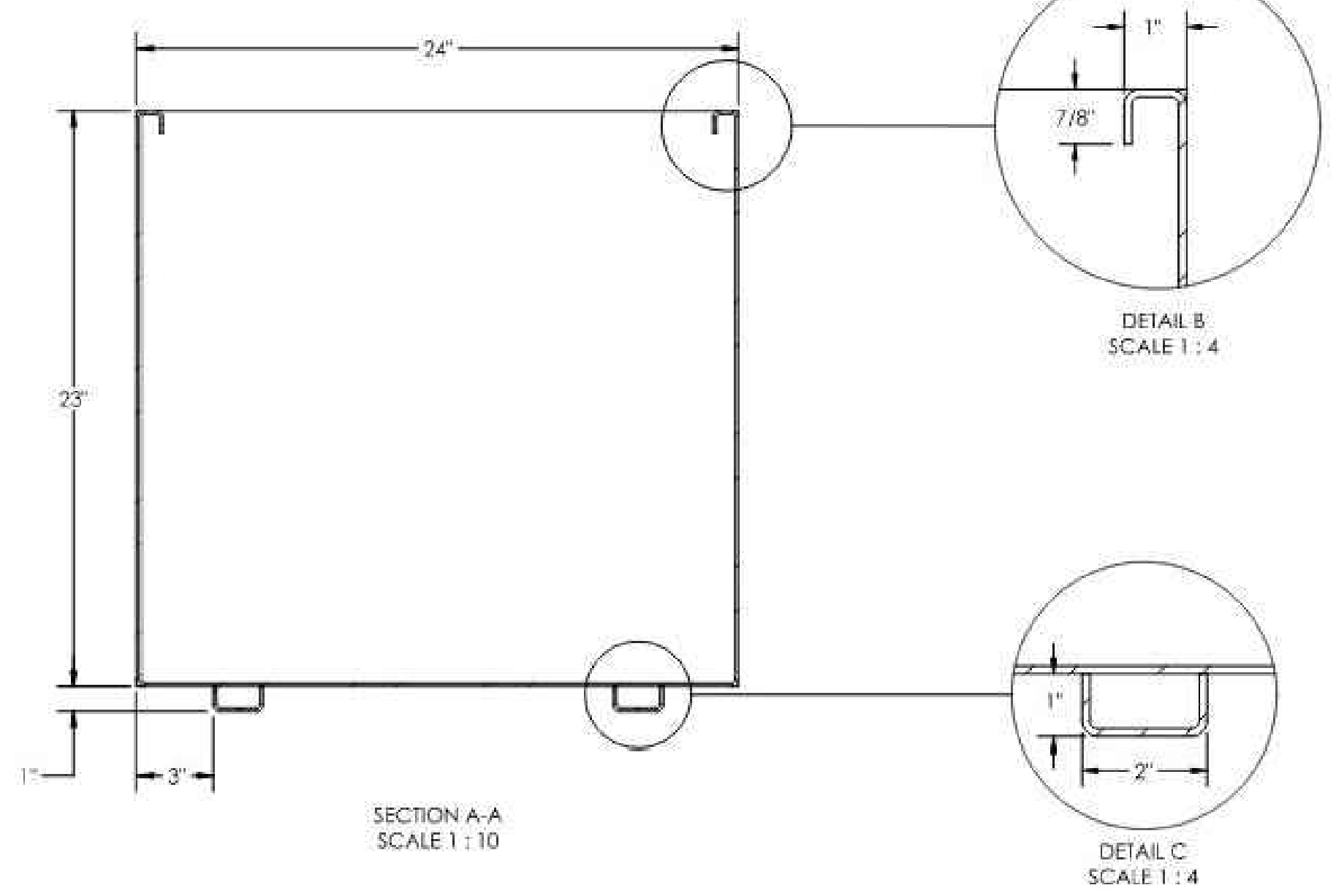
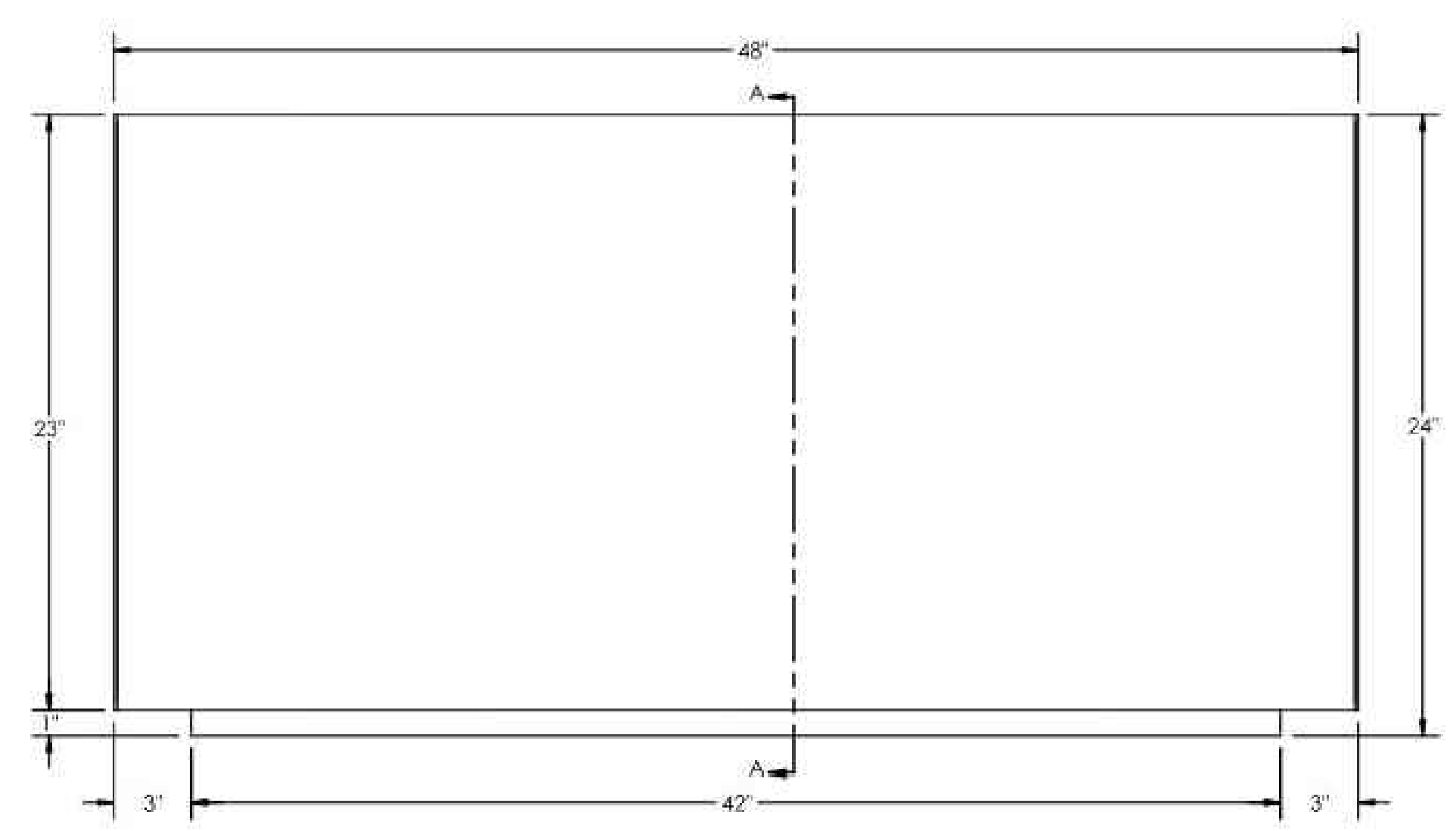
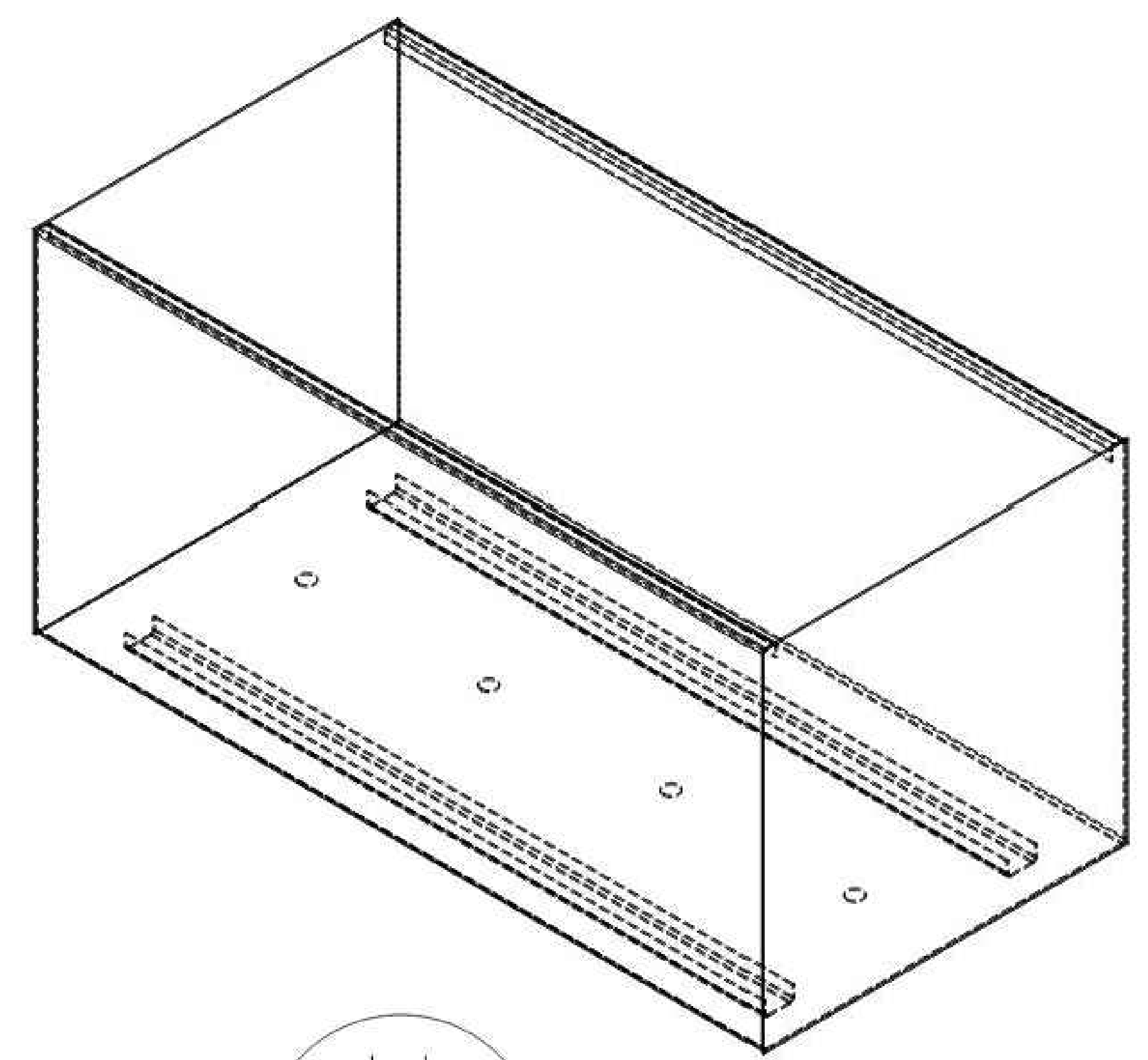
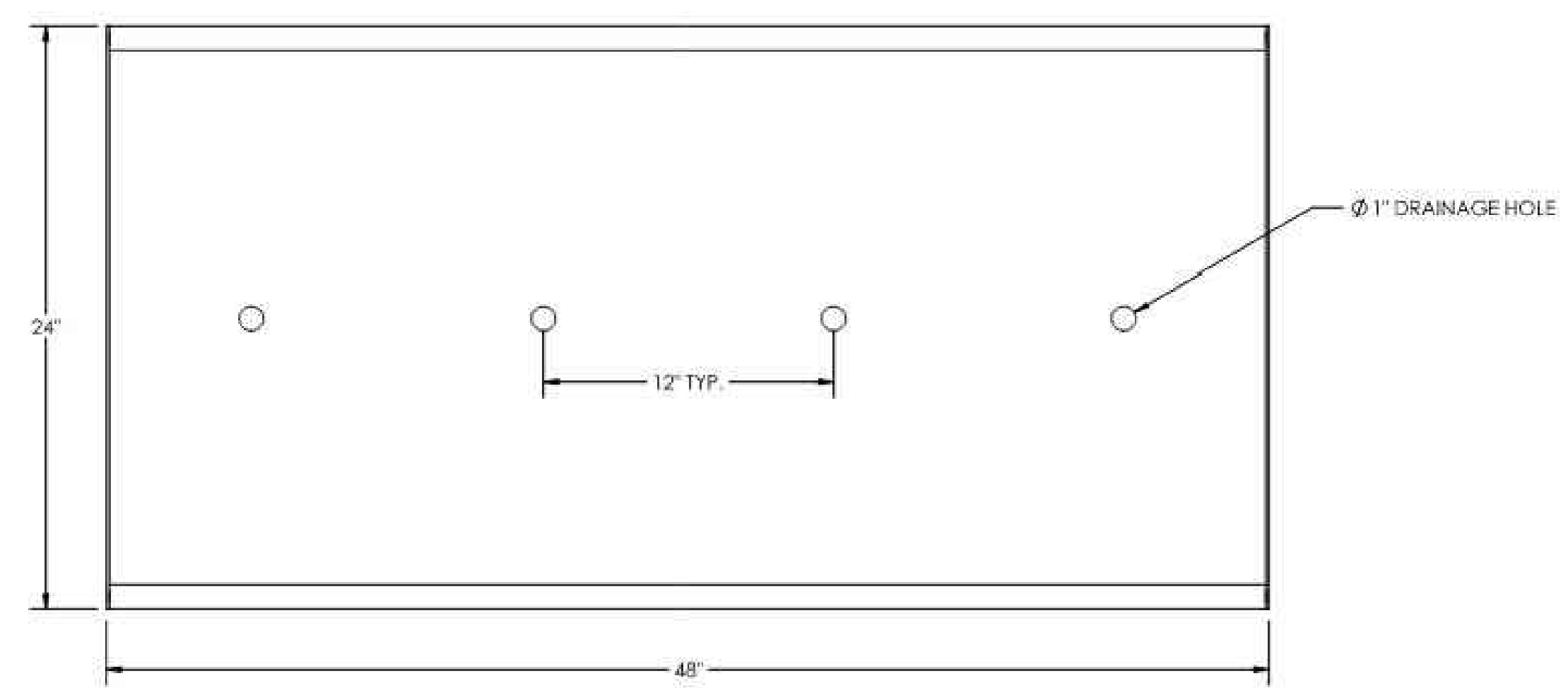
BIKE PATH CROSSING PAVEMENT MARKING DETAIL

CALCULATED
 SEF
 CHECKED
 DAM

DEVOU GOOD - COLLEGE HILL
 GENERAL DETAILS



NOTE: DECORATIVE
PLANTER + PLANTINGS
MUST NOT EXCEED 36" IN
HEIGHT

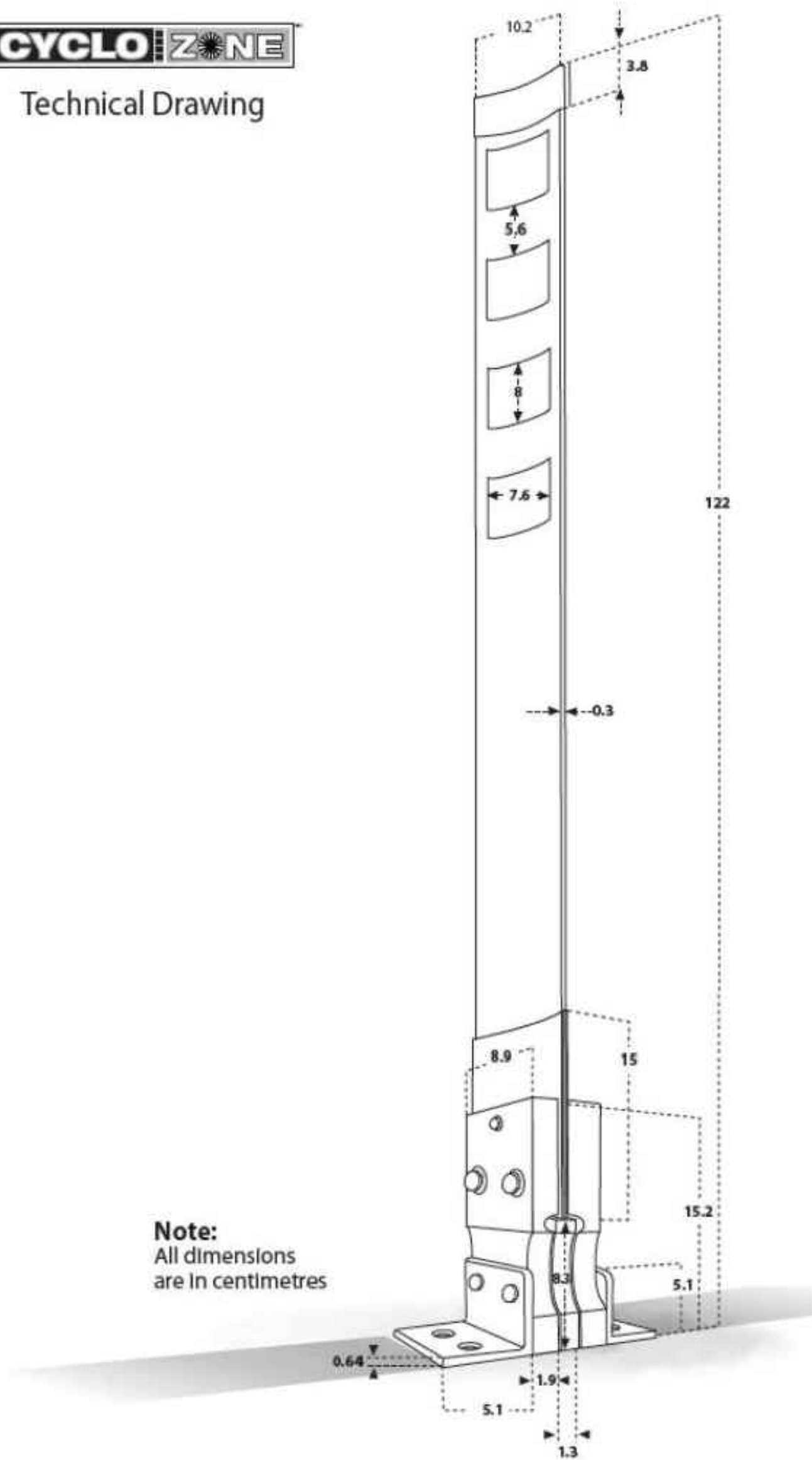


- NOTE:**
1. MATERIALS: CORTEN STEEL 1/8" THICK.
 2. QUANTITY: 1

PROPRIETARY AND CONFIDENTIAL				TITLE: PLANTER 48L X 24W X 24H	
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PLANTERCRAFT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PLANTERCRAFT IS PROHIBITED.		WWW.PLANTERCRAFT.COM		DWG NO: -	
		888.692.3000 sales@plantercraft.com 1200 Fuller Rd. Linden NJ 07036		JOB NO. -	
		DO NOT SCALE DRAWING		REV A	
		SCALE: 1:8		SHEET 1 OF 1	



Technical Drawing

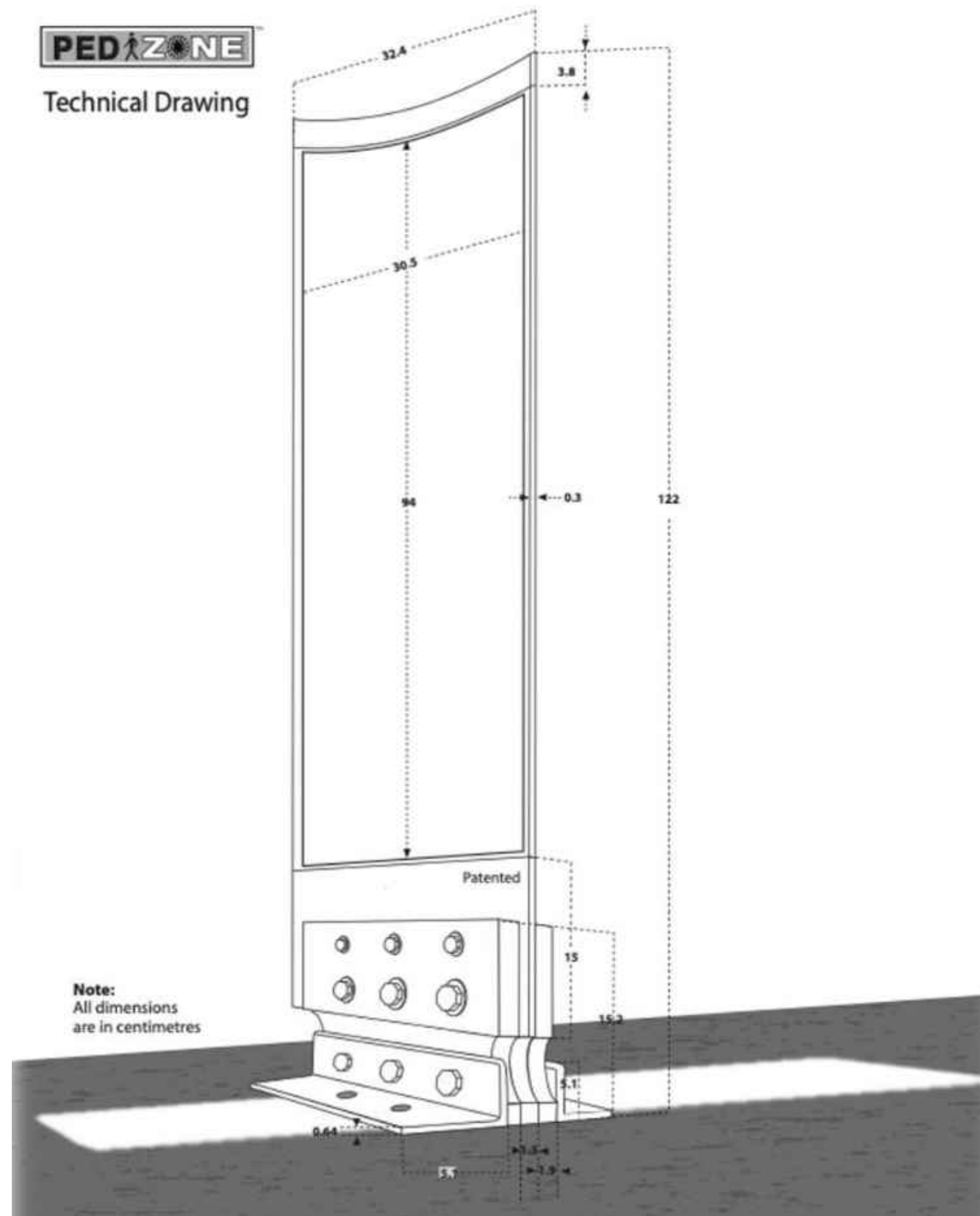


Note:
All dimensions
are in centimetres

CYCLO-ZONE FLEXIBLE BOLLARD, GREEN BOLLARD
WITH WHITE REFLECTIVE SHEETING AND CITY LOGO,
INSTALLED ON TOP OF PARKING BLOCKS

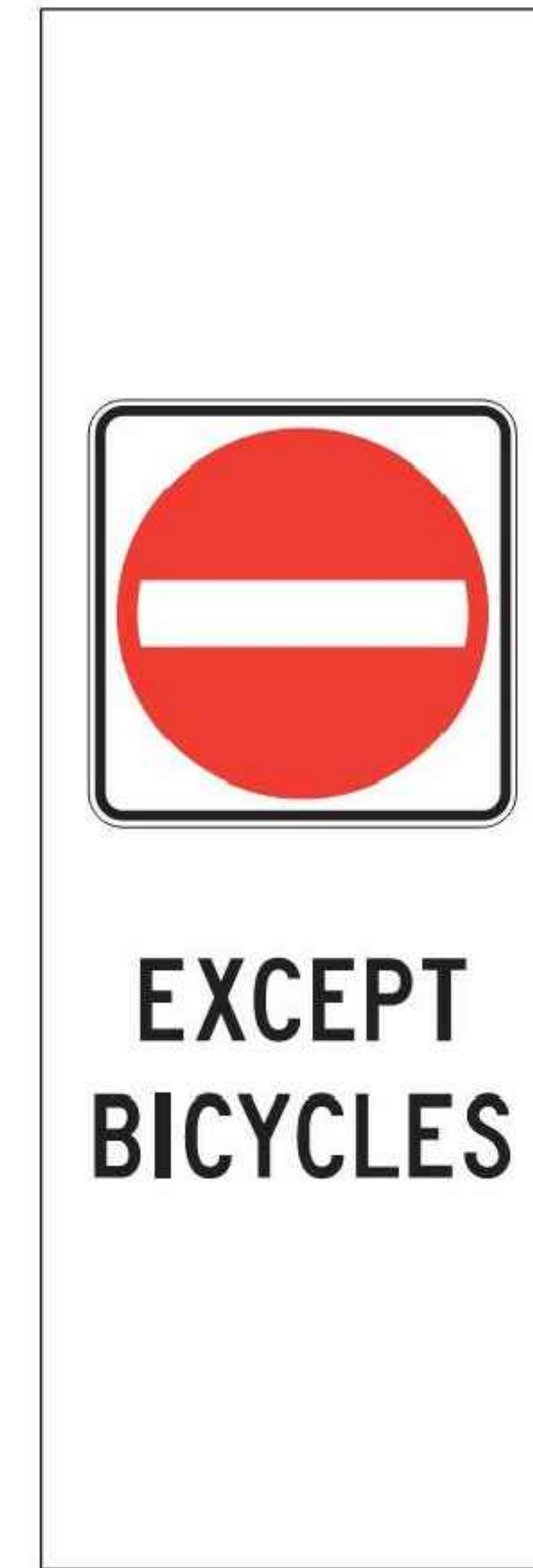


Technical Drawing



Note:
All dimensions
are in centimetres

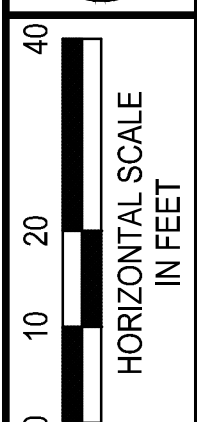
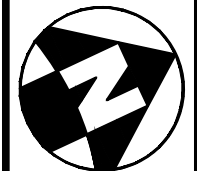
PED-ZONE FLEXIBLE BOLLARD DETAIL



PED-ZONE FACING
DRIVEWAY/STREET OPENING

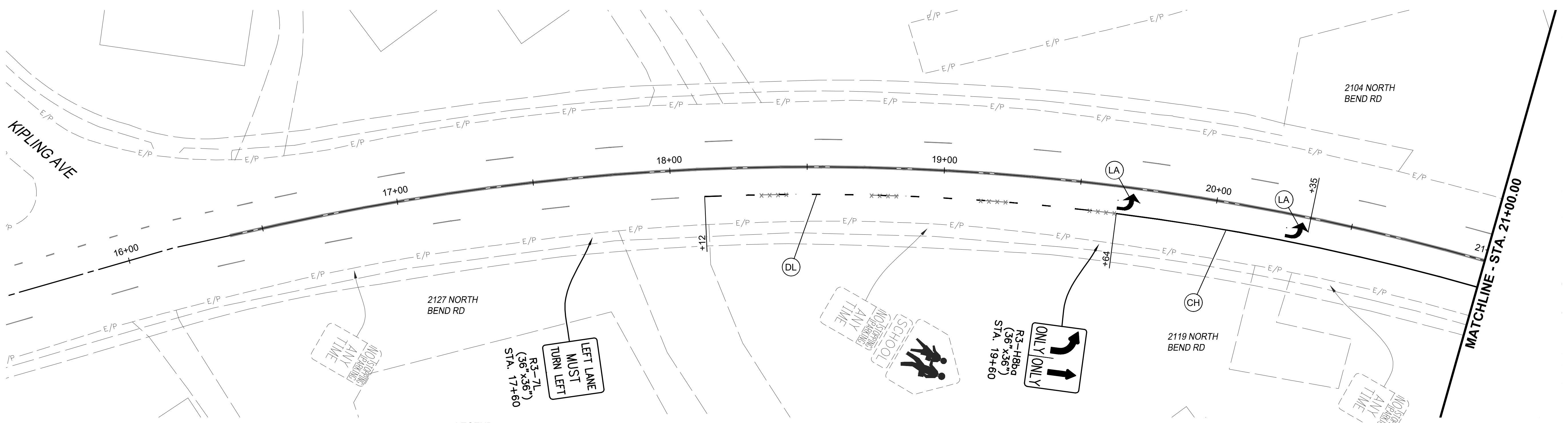


PED-ZONE FACING SHARED
USE PATHWAY



CALCULATED SEF DAM
CHECKED DAM

DEVOU GOOD - COLLEGE HILL
NORTH BEND RD PLANS - STA 16+00.00 TO STA 26+00.00



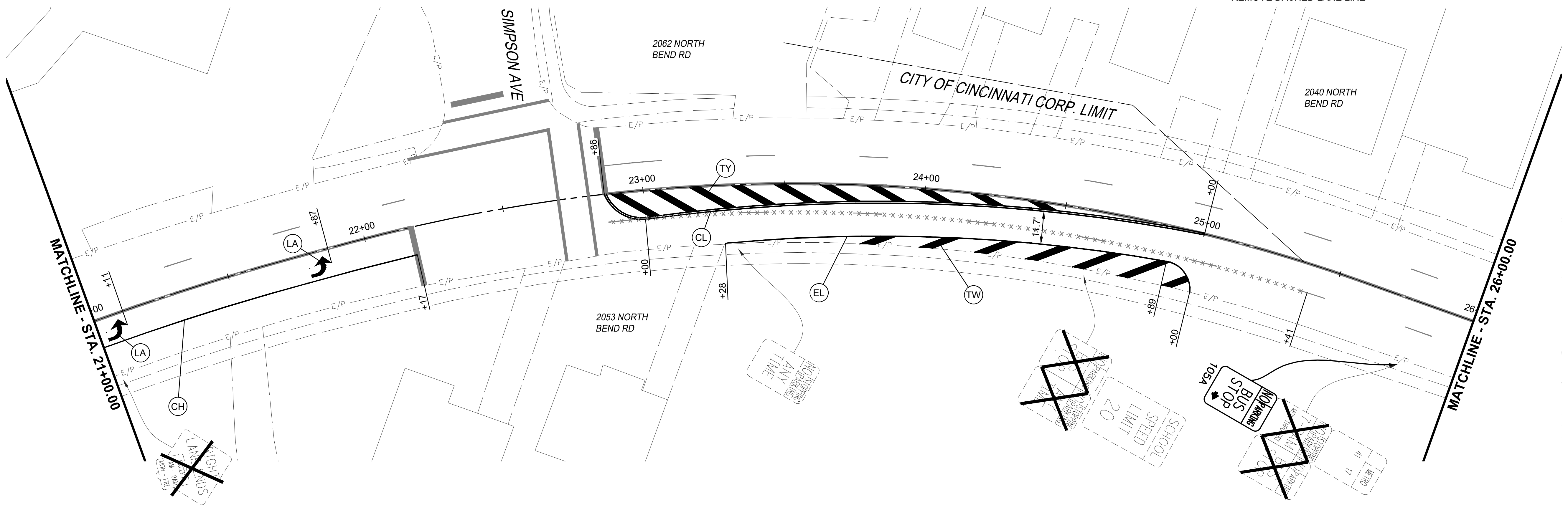
LEGEND

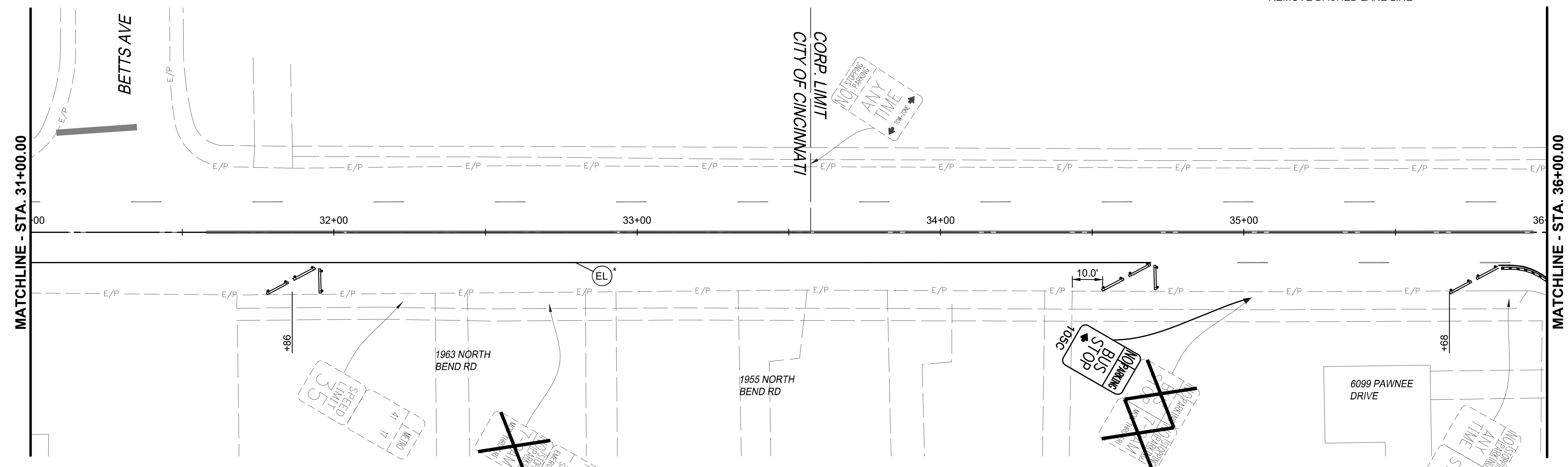
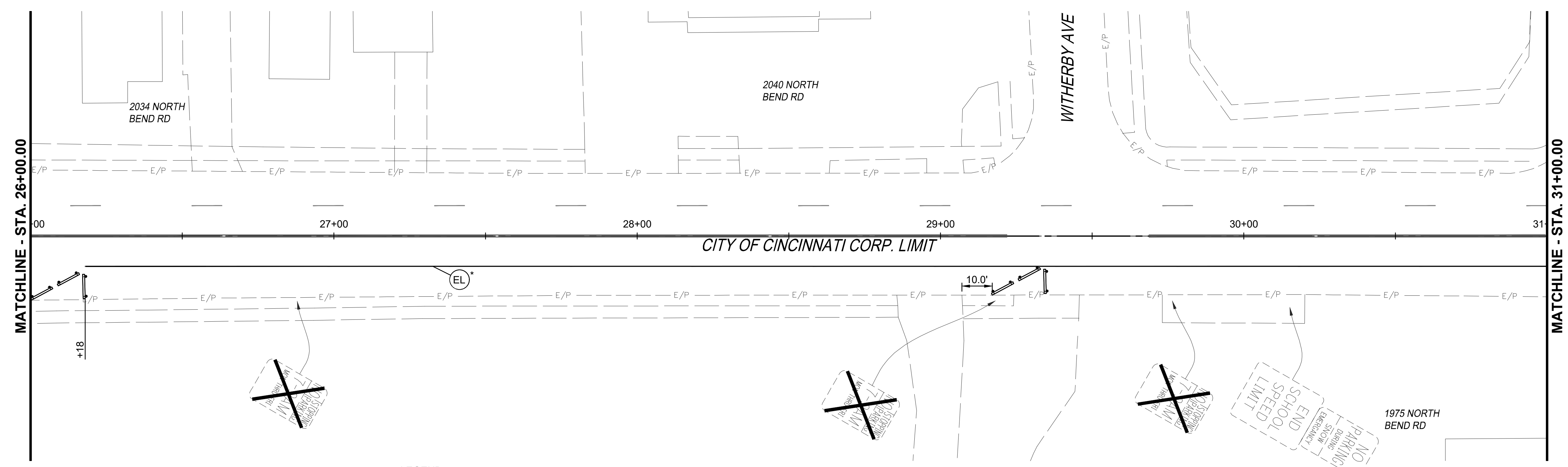
- PROPOSED SIGN
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE RELOCATED
- EXISTING SIGN

- (EL) ITEM 644 - EDGE LINE, WHITE, 4"
- (CL) ITEM 644 - CENTER LINE, DOUBLE YELLOW, 4"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 8"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 8"
- (TW) ITEM 644 - TRANSVERSE LINE, WHITE, 24"
- (TY) ITEM 644 - TRANSVERSE LINE, YELLOW, 24"
- (SH) ITEM 644 - SHARED LANE MARKING

- (SB) ITEM 644 - BICYCLE STOP BAR, WHITE, 12"
- (CW) ITEM 644 - CROSSWALK LINE, WHITE, 12"
- (LA) ITEM 644 - LANE ARROW, WHITE
- (AR) ITEM 644 - LANE REDUCTION ARROW, WHITE
- (A) ADDITIONAL CYCLO-ZONE BOLLARD
- (B) PEDZONE SIGN - 122 cm x 32.4 cm
- xxxx REMOVE EXISTING STRIPING

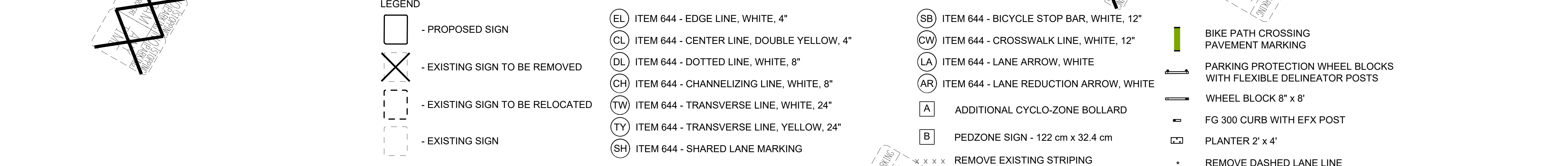
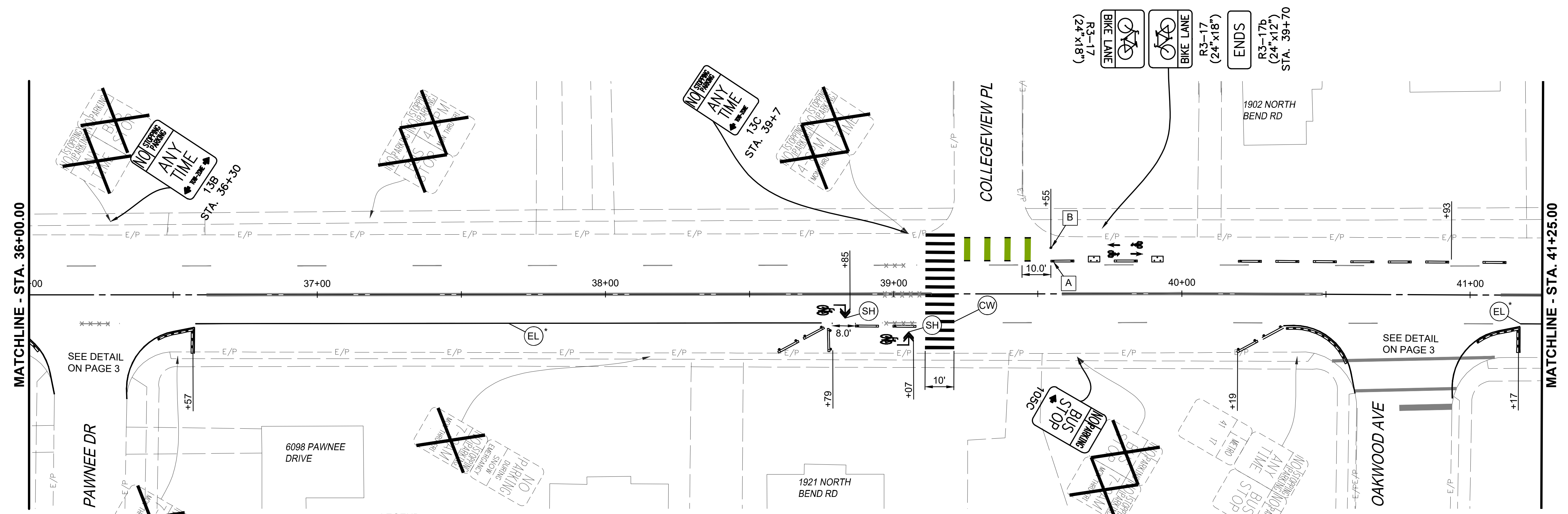
- BIKE PATH CROSSING PAVEMENT MARKING
- PARKING PROTECTION WHEEL BLOCKS WITH FLEXIBLE DELINEATOR POSTS
- WHEEL BLOCK 8" x 8"
- FG 300 CURB WITH EFX POST
- PLANTER 2' x 4'
- REMOVE DASHED LANE LINE




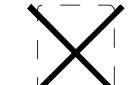




LEGEND

- | | | | | | | | |
|--|---------------------------------|--|---|--|---|--|--|
| | - PROPOSED SIGN | | ITEM 644 - EDGE LINE, WHITE, 4" | | ITEM 644 - BICYCLE STOP BAR, WHITE, 12" | | BIKE PATH CROSSING PAVEMENT MARKING |
| | - EXISTING SIGN TO BE REMOVED | | ITEM 644 - CENTER LINE, DOUBLE YELLOW, 4" | | ITEM 644 - CROSSWALK LINE, WHITE, 12" | | PARKING PROTECTION WHEEL BLOCKS WITH FLEXIBLE DELINEATOR POSTS |
| | - EXISTING SIGN TO BE RELOCATED | | ITEM 644 - DOTTED LINE, WHITE, 8" | | ITEM 644 - LANE ARROW, WHITE | | WHEEL BLOCK 8" x 8" |
| | - EXISTING SIGN | | ITEM 644 - CHANNELIZING LINE, WHITE, 8" | | ITEM 644 - LANE REDUCTION ARROW, WHITE | | FG 300 CURB WITH EFX POST |
| | | | ITEM 644 - TRANSVERSE LINE, WHITE, 24" | | ADDITIONAL CYCLO-ZONE BOLLARD | | PLANTER 2' x 4' |
| | | | ITEM 644 - TRANSVERSE LINE, YELLOW, 24" | | PEDZONE SIGN - 122 cm x 32.4 cm | | REMOVE DASHED LANE LINE |
| | | | ITEM 644 - SHARED LANE MARKING | | REMOVE EXISTING STRIPING | | |

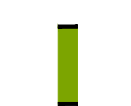
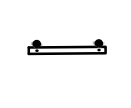
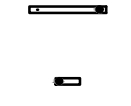





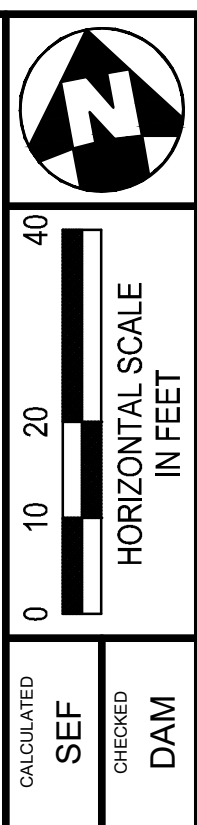
LEGEND

-  - PROPOSED SIGN
-  - EXISTING SIGN TO BE REMOVED
-  - EXISTING SIGN TO BE RELOCATED
-  - EXISTING SIGN

- (EL) ITEM 644 - EDGE LINE, WHITE, 4"
- (CL) ITEM 644 - CENTER LINE, DOUBLE YELLOW, 4"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 8"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 8"
- (TW) ITEM 644 - TRANSVERSE LINE, WHITE, 24"
- (TY) ITEM 644 - TRANSVERSE LINE, YELLOW, 24"
- (SH) ITEM 644 - SHARED LANE MARKING

- (SB) ITEM 644 - BICYCLE STOP BAR, WHITE, 12"
- (CW) ITEM 644 - CROSSWALK LINE, WHITE, 12"
- (LA) ITEM 644 - LANE ARROW, WHITE
- (AR) ITEM 644 - LANE REDUCTION ARROW, WHITE
- (A) ADDITIONAL CYCLO-ZONE BOLLARD
- (B) PEDZONE SIGN - 122 cm x 32.4 cm
- *** REMOVE EXISTING STRIPING

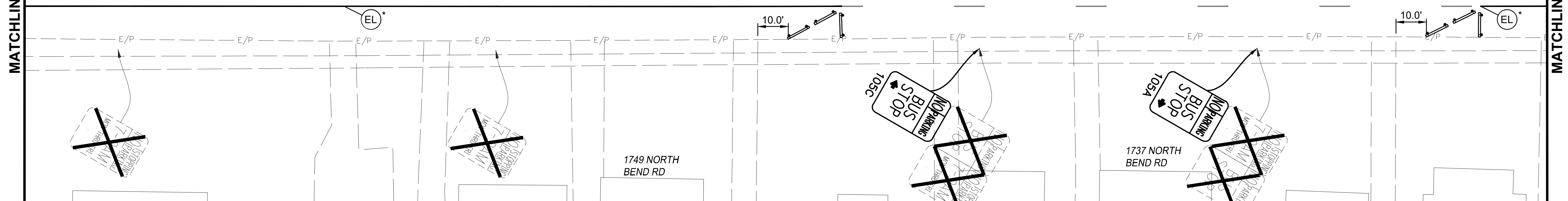
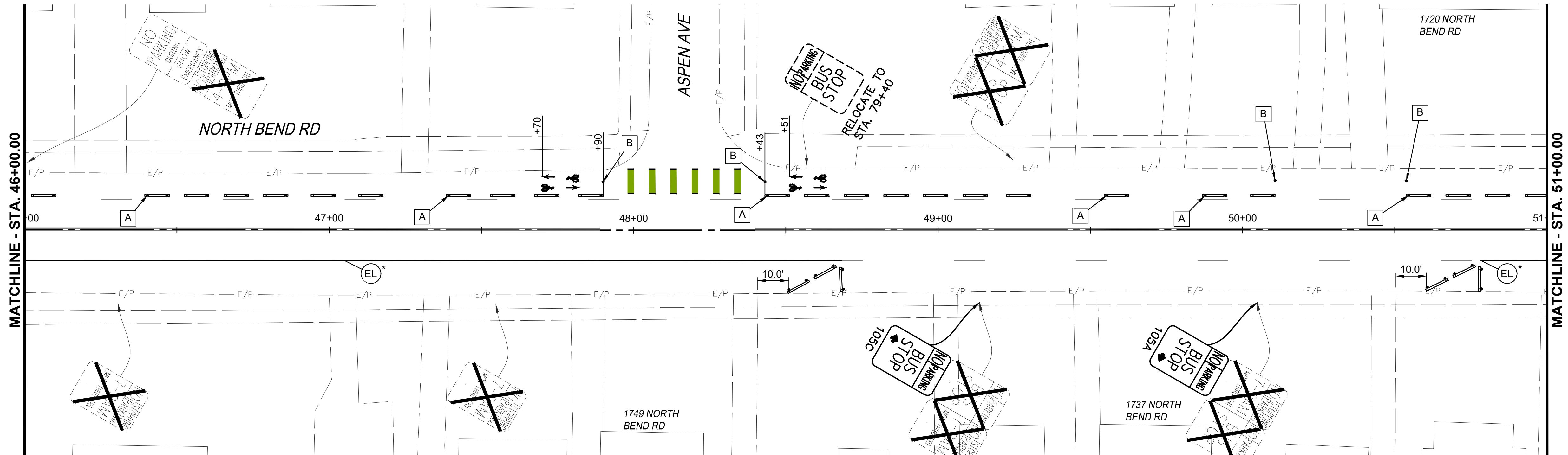
-  BIKE PATH CROSSING PAVEMENT MARKING
-  PARKING PROTECTION WHEEL BLOCKS WITH FLEXIBLE DELINEATOR POSTS
-  WHEEL BLOCK 8" x 8"
-  FG 300 CURB WITH EFX POST
-  PLANTER 2' x 4'
-  REMOVE DASHED LANE LINE



CALCULATED	SEF	CHECKED	DAM
------------	-----	---------	-----

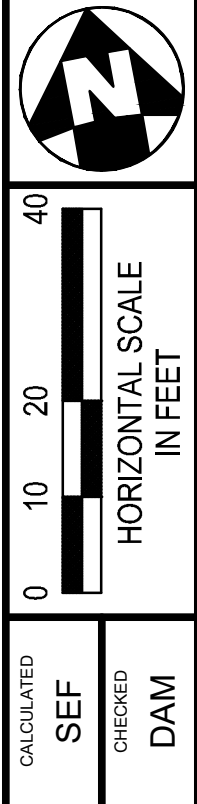
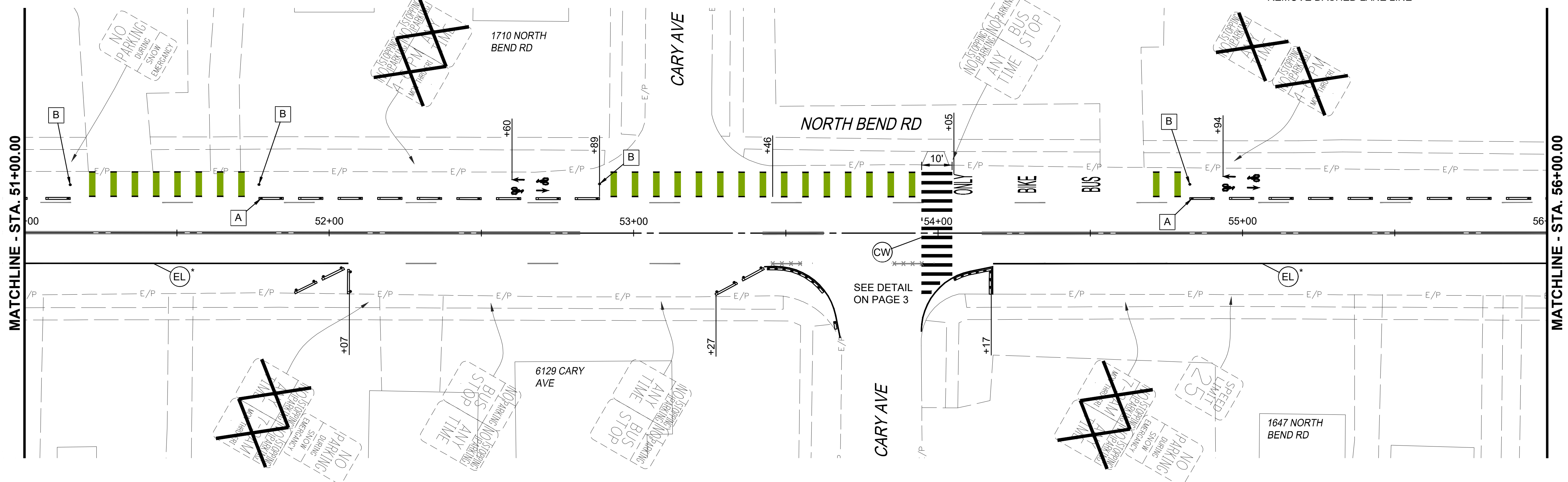
DEVOU GOOD - COLLEGE HILL
NORTH BEND RD PLANS - STA 36+00.00 TO STA 46+00.00





LEGEND

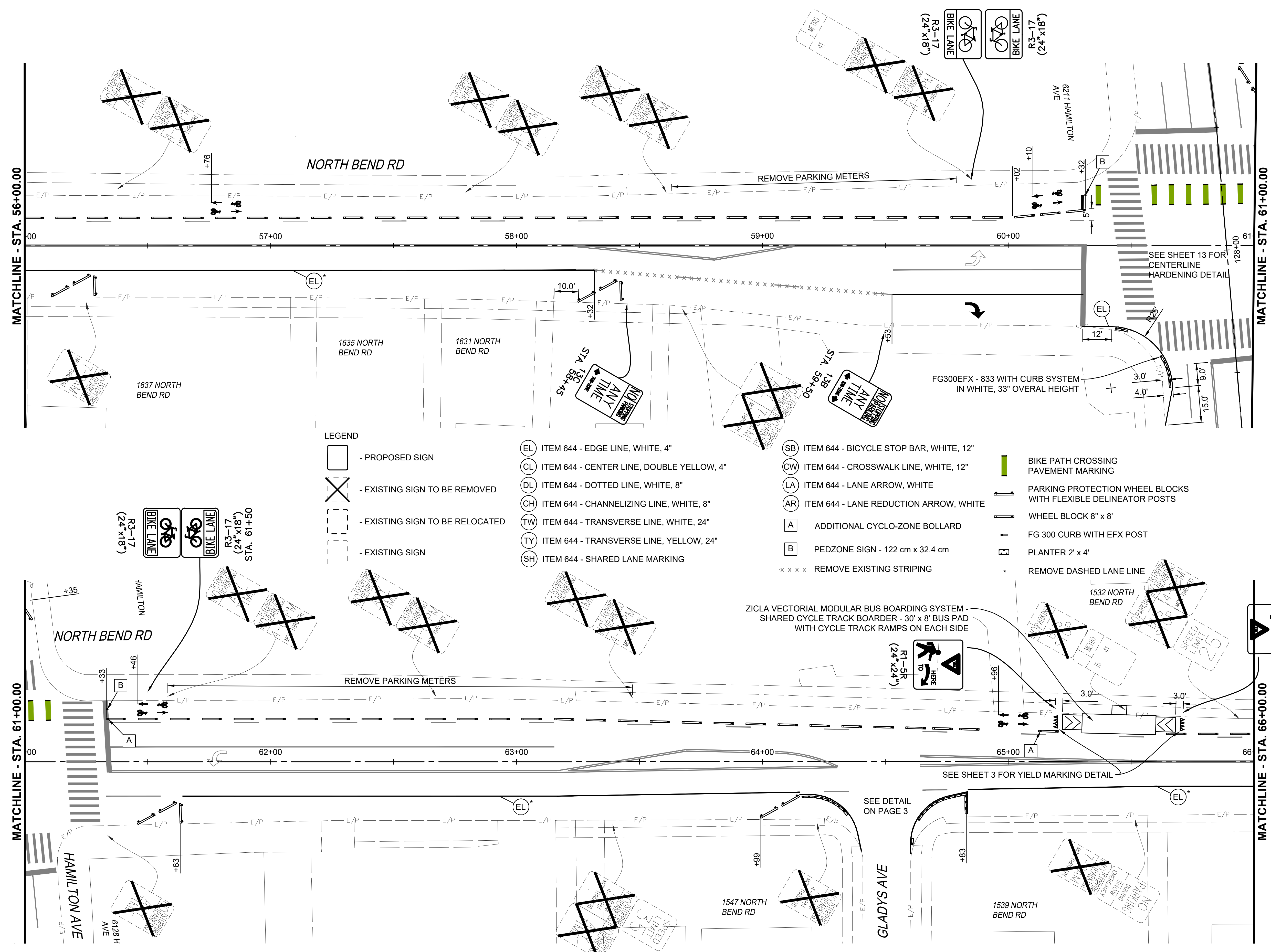
- PROPOSED SIGN
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE RELOCATED
- EXISTING SIGN
- (EL) ITEM 644 - EDGE LINE, WHITE, 4"
- (CL) ITEM 644 - CENTER LINE, DOUBLE YELLOW, 4"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 8"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 8"
- (TW) ITEM 644 - TRANSVERSE LINE, WHITE, 24"
- (TY) ITEM 644 - TRANSVERSE LINE, YELLOW, 24"
- (SH) ITEM 644 - SHARED LANE MARKING
- (SB) ITEM 644 - BICYCLE STOP BAR, WHITE, 12"
- (CW) ITEM 644 - CROSSWALK LINE, WHITE, 12"
- (LA) ITEM 644 - LANE ARROW, WHITE
- (AR) ITEM 644 - LANE REDUCTION ARROW, WHITE
- [A] ADDITIONAL CYCLO-ZONE BOLLARD
- [B] PEDZONE SIGN - 122 cm x 32.4 cm
- xxxx REMOVE EXISTING STRIPING
- * REMOVE DASHED LANE LINE
- BIKE PATH CROSSING PAVEMENT MARKING
- PARKING PROTECTION WHEEL BLOCKS WITH FLEXIBLE DELINEATOR POSTS
- WHEEL BLOCK 8" x 8"
- FG 300 CURB WITH EFX POST
- PLANTER 2' x 4'



CALCULATED SEF CHECKED DAM

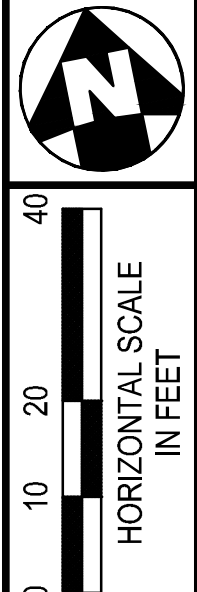
DEVOU GOOD - COLLEGE HILL
NORTH BEND RD PLANS - STA 46+00.00 TO STA 56+00.00





LEGEND

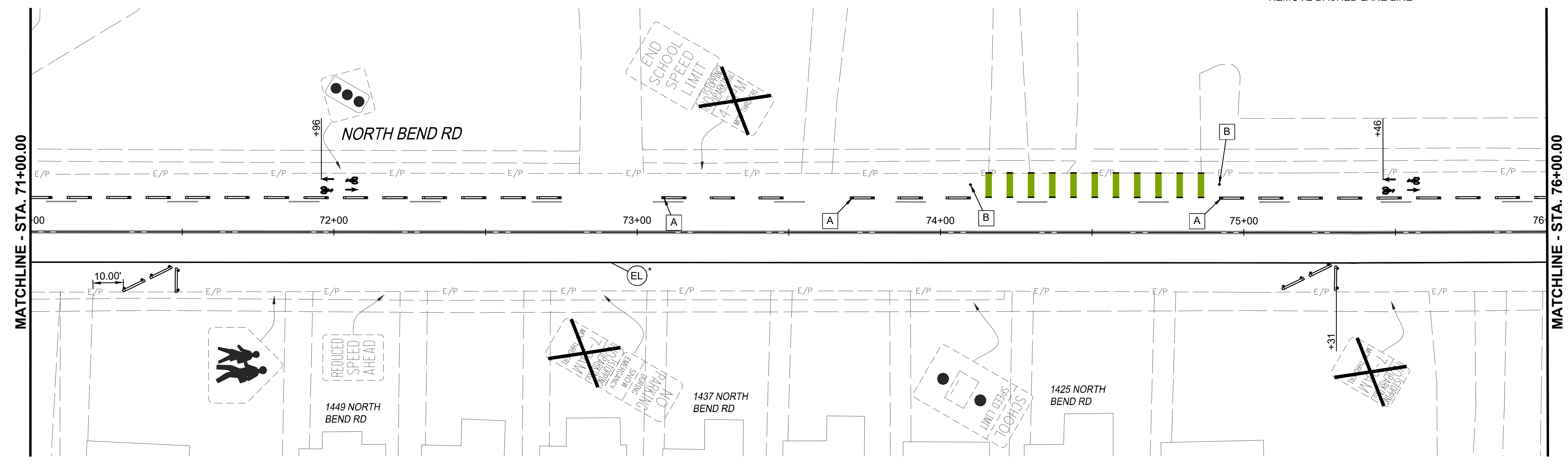
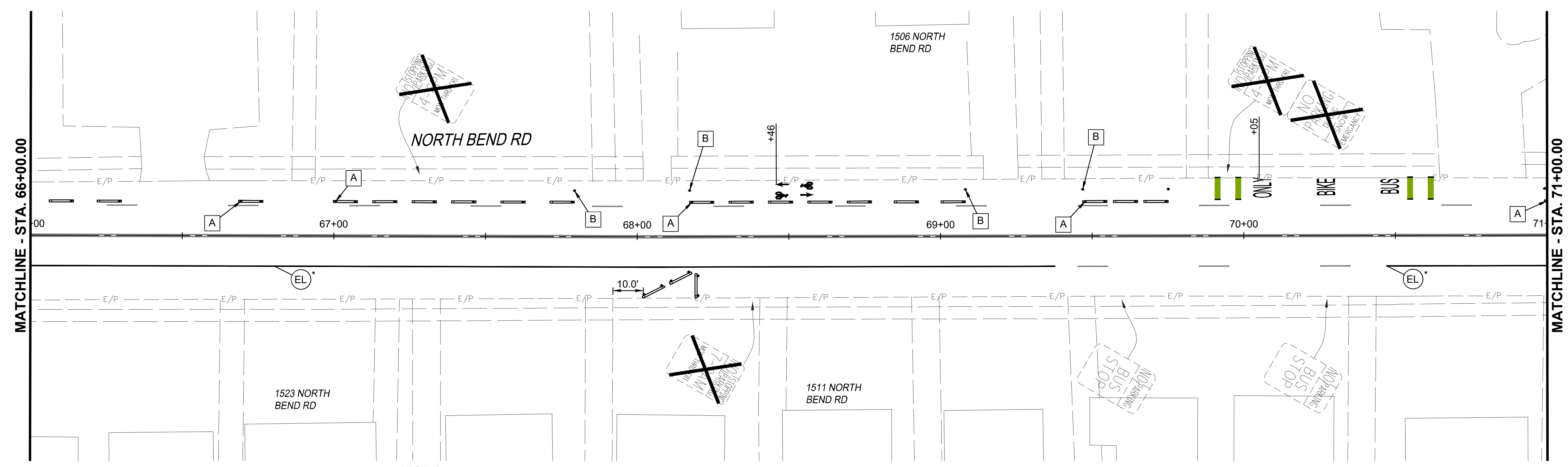
- PROPOSED SIGN
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE RELOCATED
- EXISTING SIGN
- ITEM 644 - EDGE LINE, WHITE, 4"
- ITEM 644 - CENTER LINE, DOUBLE YELLOW, 4"
- ITEM 644 - DOTTED LINE, WHITE, 8"
- ITEM 644 - CHANNELIZING LINE, WHITE, 8"
- ITEM 644 - TRANSVERSE LINE, WHITE, 24"
- ITEM 644 - TRANSVERSE LINE, YELLOW, 24"
- ITEM 644 - SHARED LANE MARKING
- ITEM 644 - BICYCLE STOP BAR, WHITE, 12"
- ITEM 644 - CROSSWALK LINE, WHITE, 12"
- ITEM 644 - LANE ARROW, WHITE
- ITEM 644 - LANE REDUCTION ARROW, WHITE
- ADDITIONAL CYCLO-ZONE BOLLARD
- PEDZONE SIGN - 122 cm x 32.4 cm
- REMOVE EXISTING STRIPING
- BIKE PATH CROSSING PAVEMENT MARKING
- PARKING PROTECTION WHEEL BLOCKS WITH FLEXIBLE DELINEATOR POSTS
- WHEEL BLOCK 8" x 8"
- FG 300 CURB WITH EFX POST
- PLANTER 2' x 4'
- REMOVE DASHED LANE LINE



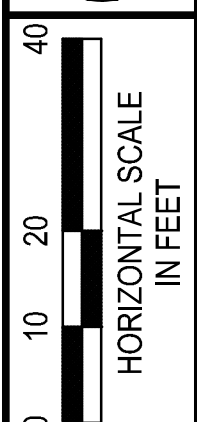
CALCULATED SEF
CHECKED DAM

DEVOU GOOD - COLLEGE HILL
NORTH BEND RD PLANS - STA 56+00.00 TO STA 66+00.00



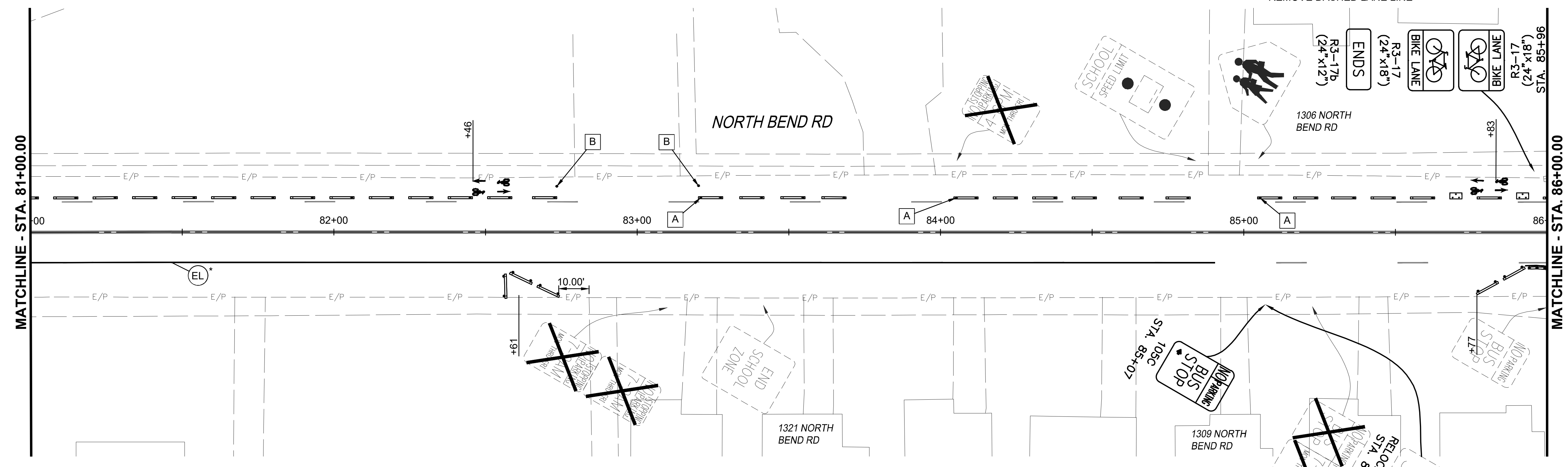
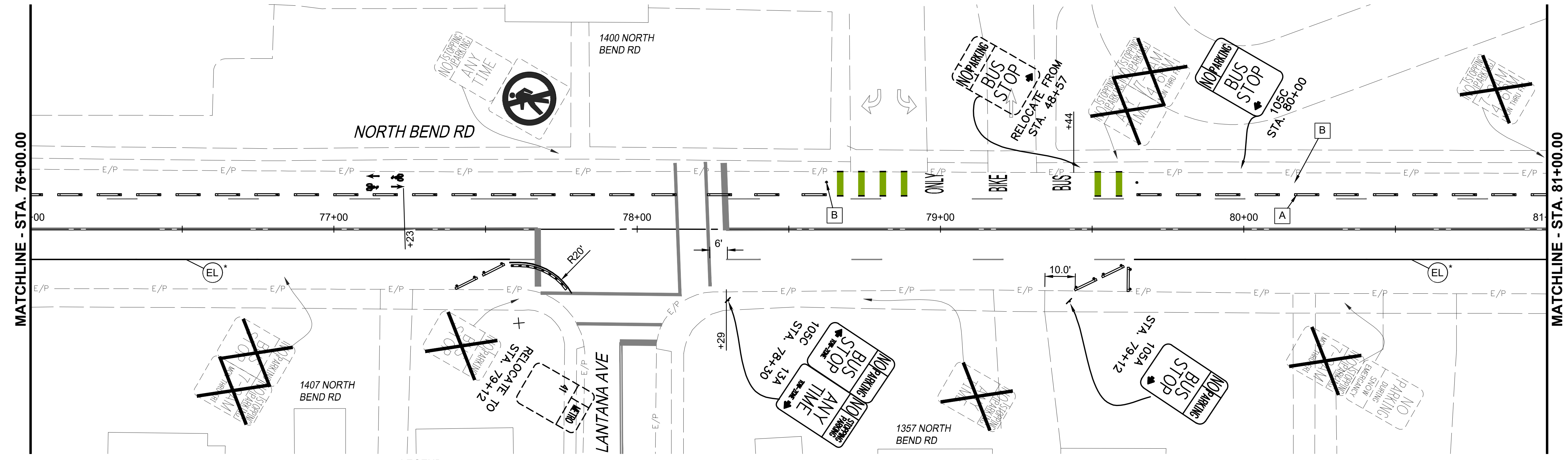


- LEGEND**
- PROPOSED SIGN
 - EXISTING SIGN TO BE REMOVED
 - EXISTING SIGN TO BE RELOCATED
 - EXISTING SIGN
 - ITEM 644 - EDGE LINE, WHITE, 4"
 - ITEM 644 - CENTER LINE, DOUBLE YELLOW, 4"
 - ITEM 644 - DOTTED LINE, WHITE, 8"
 - ITEM 644 - CHANNELIZING LINE, WHITE, 8"
 - ITEM 644 - TRANSVERSE LINE, WHITE, 24"
 - ITEM 644 - TRANSVERSE LINE, YELLOW, 24"
 - ITEM 644 - SHARED LANE MARKING
 - ITEM 644 - BICYCLE STOP BAR, WHITE, 12"
 - ITEM 644 - CROSSWALK LINE, WHITE, 12"
 - ITEM 644 - LANE ARROW, WHITE
 - ITEM 644 - LANE REDUCTION ARROW, WHITE
 - ADDITIONAL CYCLO-ZONE BOLLARD
 - PEDZONE SIGN - 122 cm x 32.4 cm
 - REMOVE EXISTING STRIPING
 - BIKE PATH CROSSING PAVEMENT MARKING
 - PARKING PROTECTION WHEEL BLOCKS WITH FLEXIBLE DELINEATOR POSTS
 - WHEEL BLOCK 8" x 8"
 - FG 300 CURB WITH EFX POST
 - PLANTER 2' x 4'
 - REMOVE DASHED LANE LINE



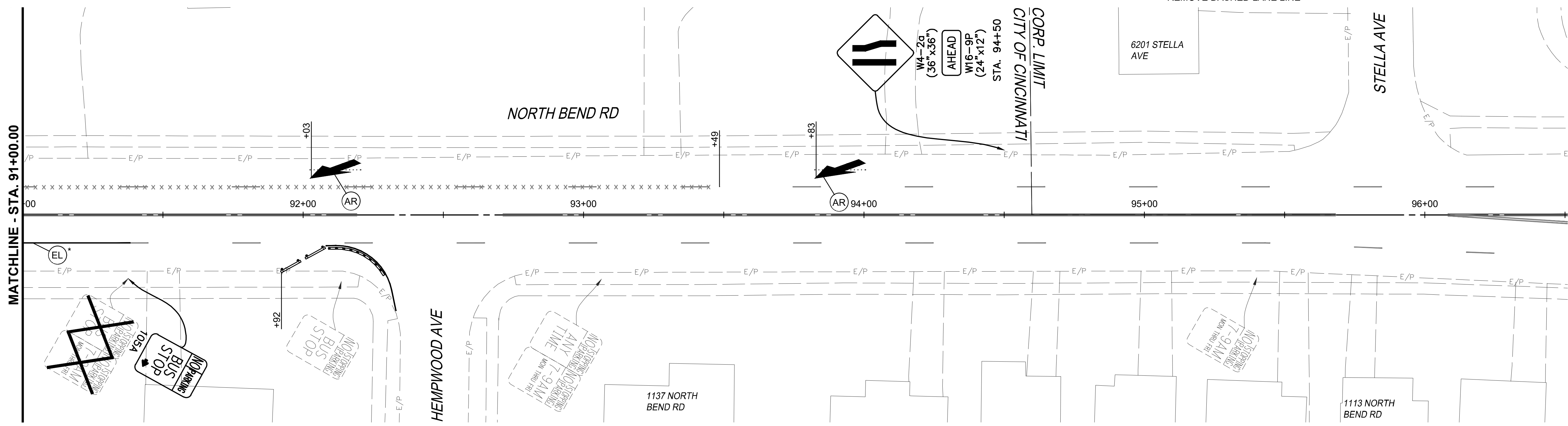
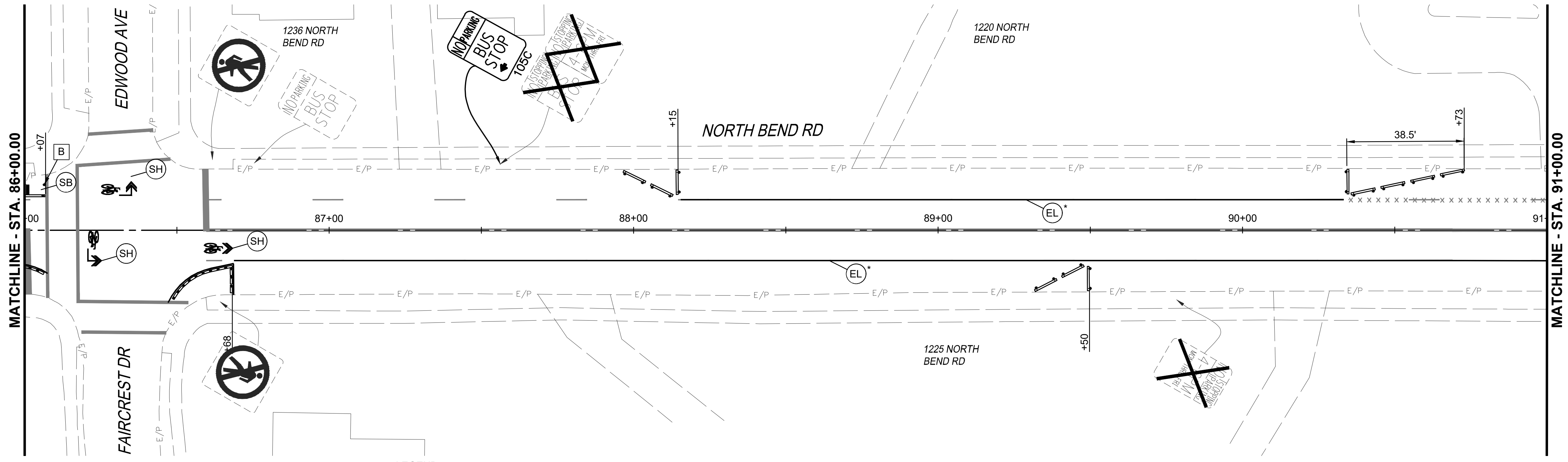
CALCULATED SEF CHECKED DAM

DEVOU GOOD - COLLEGE HILL
NORTH BEND RD PLANS - STA 76+00.00 TO STA 85+65.00



LEGEND

- PROPOSED SIGN
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE RELOCATED
- EXISTING SIGN
- ITEM 644 - EDGE LINE, WHITE, 4"
- ITEM 644 - CENTER LINE, DOUBLE YELLOW, 4"
- ITEM 644 - DOTTED LINE, WHITE, 8"
- ITEM 644 - CHANNELIZING LINE, WHITE, 8"
- ITEM 644 - TRANSVERSE LINE, WHITE, 24"
- ITEM 644 - TRANSVERSE LINE, YELLOW, 24"
- ITEM 644 - SHARED LANE MARKING
- ITEM 644 - BICYCLE STOP BAR, WHITE, 12"
- ITEM 644 - CROSSWALK LINE, WHITE, 12"
- ITEM 644 - LANE ARROW, WHITE
- ITEM 644 - LANE REDUCTION ARROW, WHITE
- ADDITIONAL CYCLO-ZONE BOLLARD
- PEDZONE SIGN - 122 cm x 32.4 cm
- REMOVE EXISTING STRIPING
- BIKE PATH CROSSING PAVEMENT MARKING
- PARKING PROTECTION WHEEL BLOCKS WITH FLEXIBLE DELINEATOR POSTS
- WHEEL BLOCK 8" x 8"
- FG 300 CURB WITH EFX POST
- PLANTER 2' x 4'
- REMOVE DASHED LANE LINE



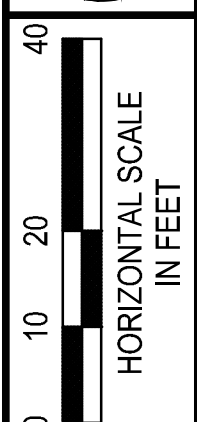
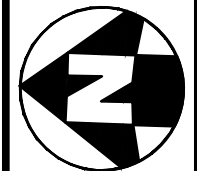
LEGEND

- PROPOSED SIGN
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE RELOCATED
- EXISTING SIGN
- (EL) ITEM 644 - EDGE LINE, WHITE, 4"
- (CL) ITEM 644 - CENTER LINE, DOUBLE YELLOW, 4"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 8"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 8"
- (TW) ITEM 644 - TRANSVERSE LINE, WHITE, 24"
- (TY) ITEM 644 - TRANSVERSE LINE, YELLOW, 24"
- (SH) ITEM 644 - SHARED LANE MARKING
- (SB) ITEM 644 - BICYCLE STOP BAR, WHITE, 12"
- (CW) ITEM 644 - CROSSWALK LINE, WHITE, 12"
- (LA) ITEM 644 - LANE ARROW, WHITE
- (AR) ITEM 644 - LANE REDUCTION ARROW, WHITE
- (A) ADDITIONAL CYCLO-ZONE BOLLARD
- (B) PEDZONE SIGN - 122 cm x 32.4 cm
- xxxx REMOVE EXISTING STRIPING

- BIKE PATH CROSSING PAVEMENT MARKING
- PARKING PROTECTION WHEEL BLOCKS WITH FLEXIBLE DELINEATOR POSTS
- WHEEL BLOCK 8" x 8"
- FG 300 CURB WITH EFX POST
- PLANTER 2' x 4'
- REMOVE DASHED LANE LINE

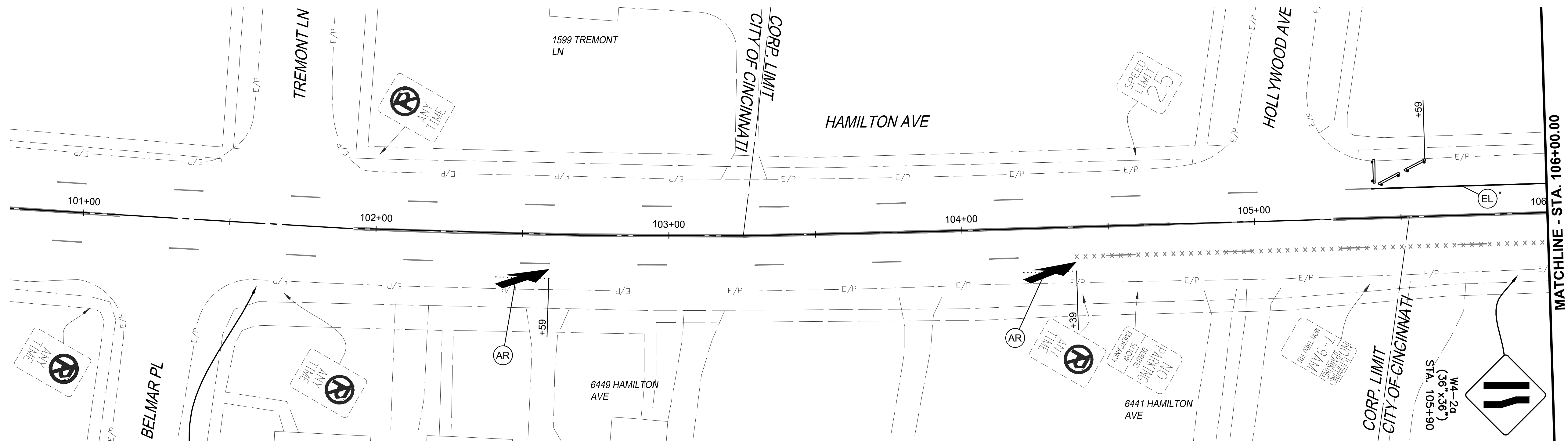
CALCULATED SEF
CHECKED DAM

DEVOU GOOD - COLLEGE HILL
NORTH BEND RD PLANS - STA 85+65.00 TO STA 96+50.00



CALCULATED
SEF
CHECKED
DAM

DEVOU GOOD - COLLEGE HILL
HAMILTON AVE PLANS - STA 101+00.00 TO STA 111+00.00



W4-2a
(36" x 36")
AHEAD
W16-9P
(24" x 12")
STA. 101+60

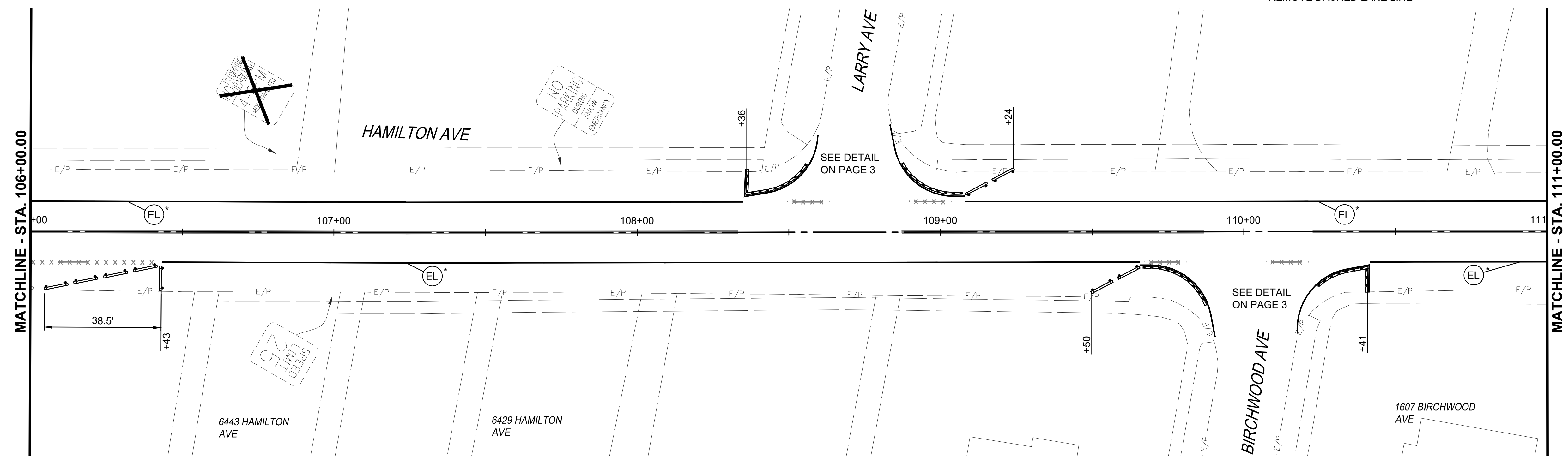
LEGEND

- PROPOSED SIGN
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE RELOCATED
- EXISTING SIGN

- (EL) ITEM 644 - EDGE LINE, WHITE, 4"
- (CL) ITEM 644 - CENTER LINE, DOUBLE YELLOW, 4"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 8"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 8"
- (TW) ITEM 644 - TRANSVERSE LINE, WHITE, 24"
- (TY) ITEM 644 - TRANSVERSE LINE, YELLOW, 24"
- (SH) ITEM 644 - SHARED LANE MARKING

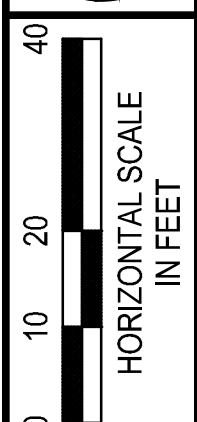
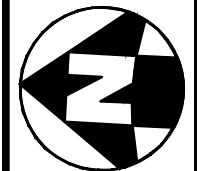
- (SB) ITEM 644 - BICYCLE STOP BAR, WHITE, 12"
- (CW) ITEM 644 - CROSSWALK LINE, WHITE, 12"
- (LA) ITEM 644 - LANE ARROW, WHITE
- (AR) ITEM 644 - LANE REDUCTION ARROW, WHITE
- (A) ADDITIONAL CYCLO-ZONE BOLLARD
- (B) PEDZONE SIGN - 122 cm x 32.4 cm
- x x x x REMOVE EXISTING STRIPING

- BIKE PATH CROSSING PAVEMENT MARKING
- PARKING PROTECTION WHEEL BLOCKS WITH FLEXIBLE DELINEATOR POSTS
- WHEEL BLOCK 8" x 8"
- FG 300 CURB WITH EFX POST
- PLANTER 2' x 4'
- REMOVE DASHED LANE LINE



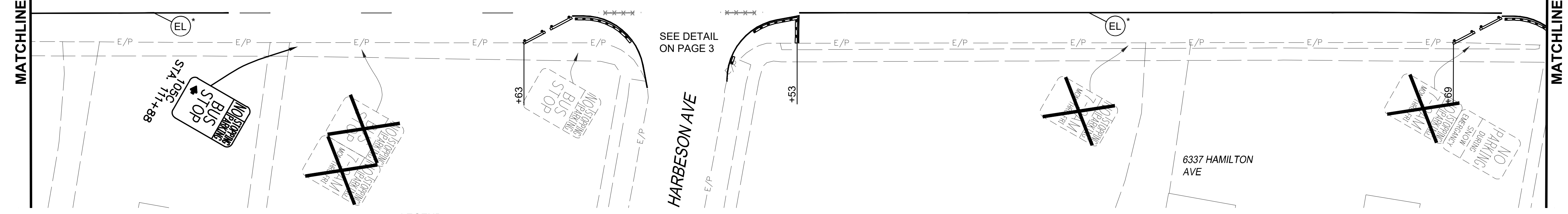
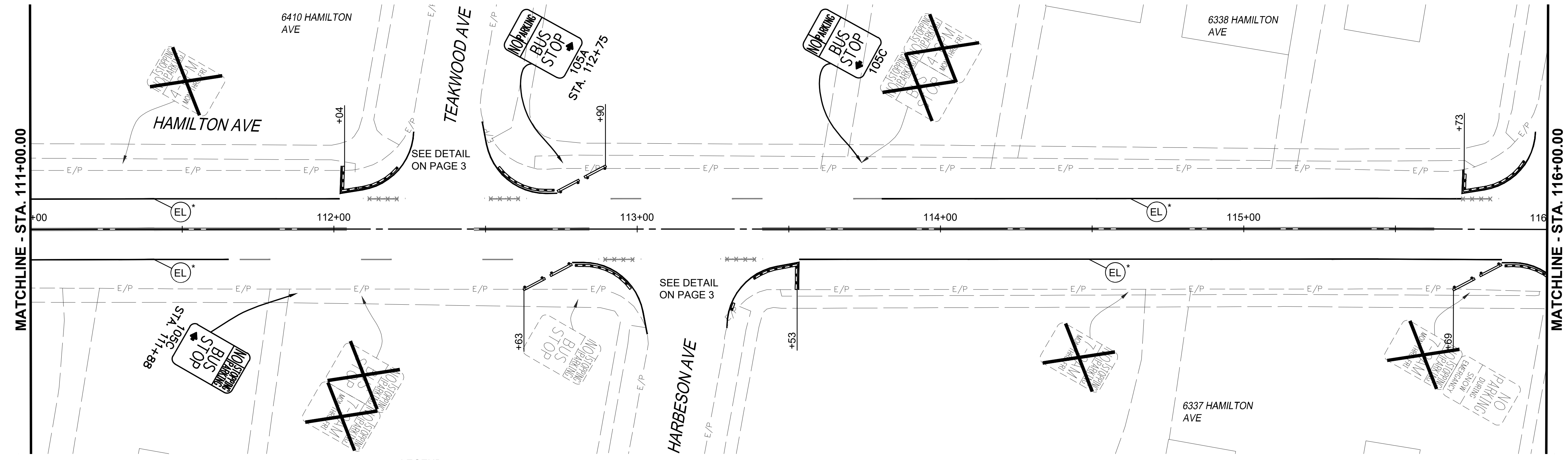
MATCHLINE - STA. 106+00.00

MATCHLINE - STA. 111+00.00



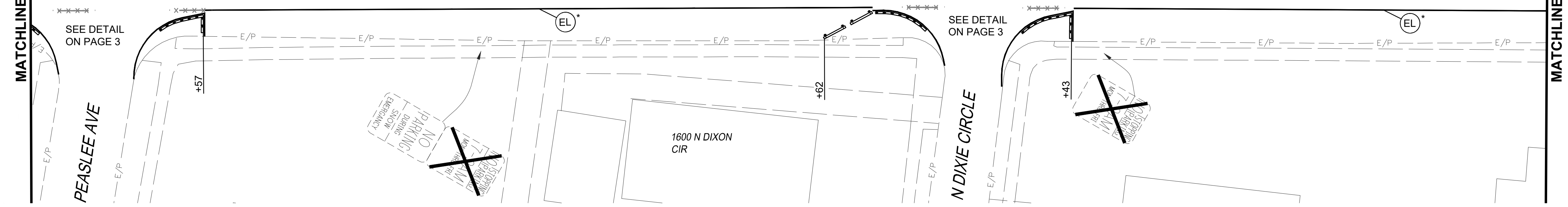
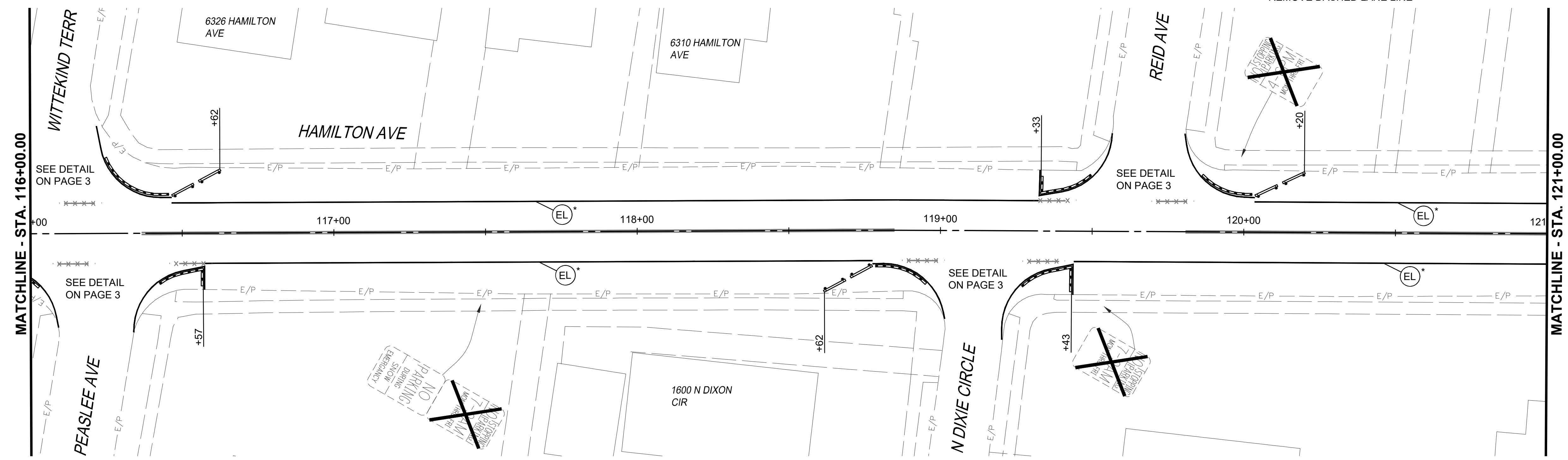
CALCULATED
SEF
CHECKED
DAM

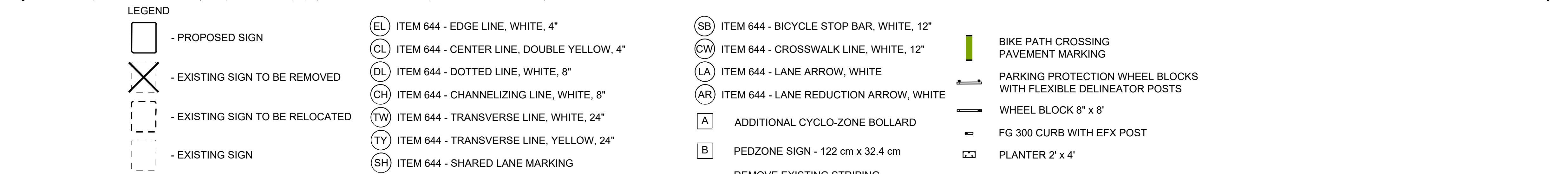
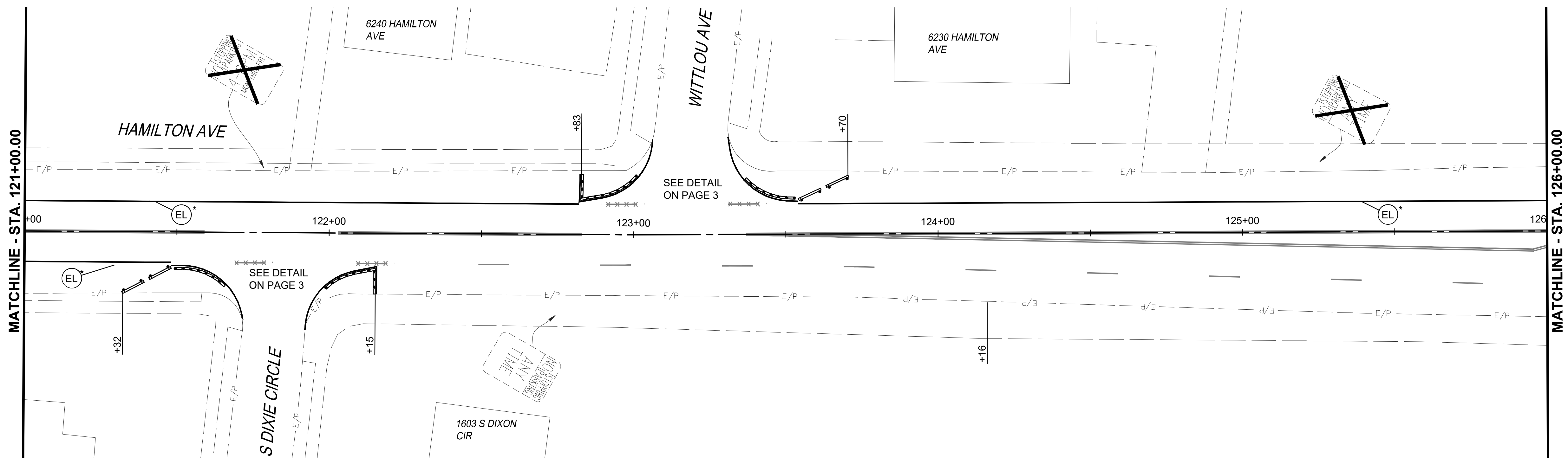
DEVOU GOOD - COLLEGE HILL
HAMILTON AVE PLANS - STA 111+00.00 TO STA 121+00.00



LEGEND

- PROPOSED SIGN
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE RELOCATED
- EXISTING SIGN
- (EL) ITEM 644 - EDGE LINE, WHITE, 4"
- (CL) ITEM 644 - CENTER LINE, DOUBLE YELLOW, 4"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 8"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 8"
- (TW) ITEM 644 - TRANSVERSE LINE, WHITE, 24"
- (TY) ITEM 644 - TRANSVERSE LINE, YELLOW, 24"
- (SH) ITEM 644 - SHARED LANE MARKING
- (SB) ITEM 644 - BICYCLE STOP BAR, WHITE, 12"
- (CW) ITEM 644 - CROSSWALK LINE, WHITE, 12"
- (LA) ITEM 644 - LANE ARROW, WHITE
- (AR) ITEM 644 - LANE REDUCTION ARROW, WHITE
- (A) ADDITIONAL CYCLO-ZONE BOLLARD
- (B) PEDZONE SIGN - 122 cm x 32.4 cm
- x x x x REMOVE EXISTING STRIPING
- * REMOVE DASHED LANE LINE
- BIKE PATH CROSSING PAVEMENT MARKING
- PARKING PROTECTION WHEEL BLOCKS WITH FLEXIBLE DELINEATOR POSTS
- WHEEL BLOCK 8" x 8"
- FG 300 CURB WITH EFX POST
- PLANTER 2' x 4'





LEGEND

- PROPOSED SIGN
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE RELOCATED
- EXISTING SIGN

- (EL) ITEM 644 - EDGE LINE, WHITE, 4"
- (CL) ITEM 644 - CENTER LINE, DOUBLE YELLOW, 4"
- (DL) ITEM 644 - DOTTED LINE, WHITE, 8"
- (CH) ITEM 644 - CHANNELIZING LINE, WHITE, 8"
- (TW) ITEM 644 - TRANSVERSE LINE, WHITE, 24"
- (TY) ITEM 644 - TRANSVERSE LINE, YELLOW, 24"
- (SH) ITEM 644 - SHARED LANE MARKING

- (SB) ITEM 644 - BICYCLE STOP BAR, WHITE, 12"
- (CW) ITEM 644 - CROSSWALK LINE, WHITE, 12"
- (LA) ITEM 644 - LANE ARROW, WHITE
- (AR) ITEM 644 - LANE REDUCTION ARROW, WHITE
- (A) ADDITIONAL CYCLO-ZONE BOLLARD
- (B) PEDZONE SIGN - 122 cm x 32.4 cm

- BIKE PATH CROSSING PAVEMENT MARKING
- PARKING PROTECTION WHEEL BLOCKS WITH FLEXIBLE DELINEATOR POSTS
- WHEEL BLOCK 8" x 8"
- FG 300 CURB WITH EFX POST
- PLANTER 2' x 4'
- REMOVE EXISTING STRIPING
- REMOVE DASHED LANE LINE

CALCULATED SEF DAM
CHECKED DAM






HORIZONTAL SCALE
IN FEET

DEVOU GOOD - COLLEGE HILL
HAMILTON AVE PLANS - STA 121+00.00 TO STA 130+00.00



40
20
10
0
HORIZONTAL SCALE
IN FEET

CALCULATED	SEF	CHECKED	DAM
------------	-----	---------	-----

-  (6) FG 300 EFX - 833 WITH CURB SYSTEMS IN YELLOW, 33" OVERALL HEIGHT
-  (3) FG 300 EFX - 833 WITH CURB SYSTEMS IN YELLOW, 33" OVERALL HEIGHT
-  (2) 4.5' TREE TOP PRODUCTS PREMIUM RUBBER SPEED BUMP SECTIONS WITH END CAPS.
-  (1) 4.5' TREE TOP PRODUCTS PREMIUM RUBBER SPEED BUMP SECTIONS WITH END CAPS.
-  (1) 8" INSITE SOLUTIONS, LLC (STOP-PAINTING.COM) CERAMIC ROAD REFLECTOR (BOT DOT), YELLOW WITH TWO-WAY REFLECTORS. TWO-PART EPOXY INSTALLATION.



DEVOU GOOD - COLLEGE HILL
 NORTH BEND ROAD AT HAMILTON AVENUE - CENTERLINE HARDENING DETAIL

