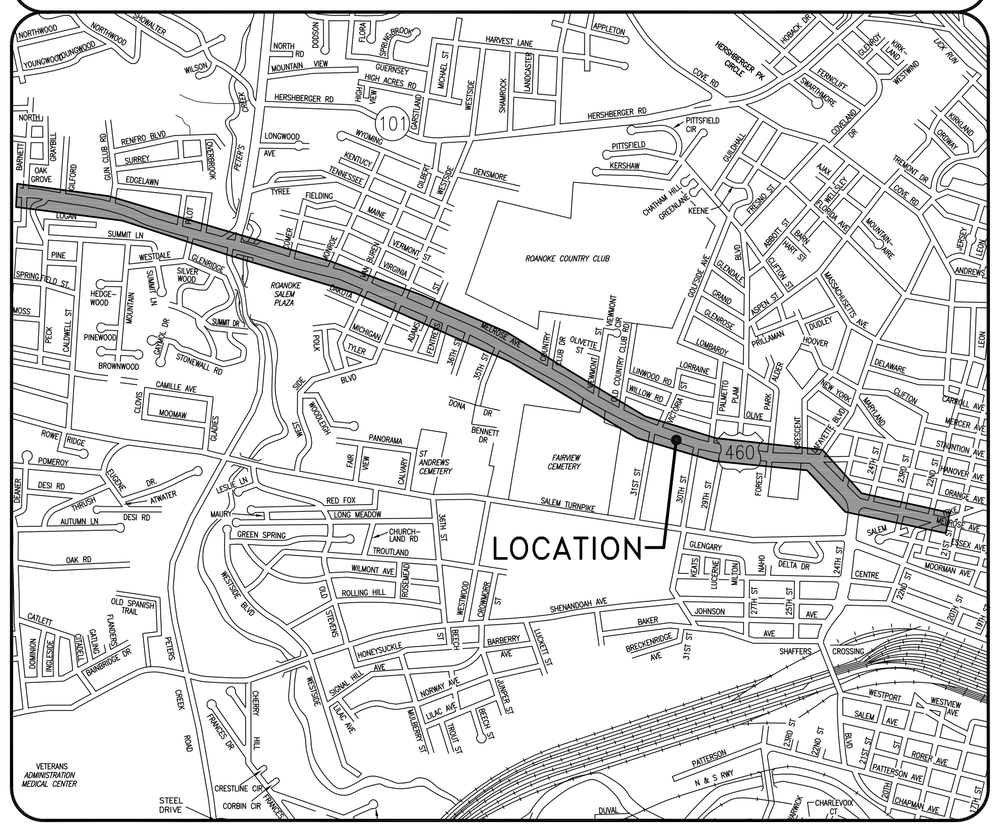
PROJECT LOCATION MAP



ROANOKE

OFFICE OF THE CITY ENGINEER
215 CHURCH AVENUE, SW
ROOM 350
ROANOKE, VIRGINIA 24011-1587
PHONE: (540) 853-2731
FAX: (540) 853-1364
ENGINEER@ROANOKEVA.GOV

INDEX OF SHEETS

1. COVERSHEET
2. PLANS
3. PLANS
4. PLANS
5. PLANS
6. DETAILS
7. DETAILS
8. TRANSPORTATION MANAGEMENT PLAN

This project shall be constructed under the Virginia Department of Transportation (VDOT) Road and Bridge Standards and Specifications, latest edition, and the City of Roanoke Specifications as provided in the Project Manual.

PROJECT NAME

MELROSE AVENUE ADA CURB RAMP
IMPROVEMENT PROJECT
CITY OF ROANOKE
STATE PROJECT #EN15-128-367, P101, M501
FEDERAL PROJECT #TEA-5128(336)
UPC 106266

CITY ENGINEERING PLAN NUMBER: 6811

ABBREVIATIONS

CL =	CENTERLINE	PVC =	POLYVINYL CHLORIDE
ELEV =	ELEVATION	HDPE =	HIGH DENSITY POLYETHYLENE
EL =	ELEVATION	BLDG =	BUILDING
FG =	FINISHED GRADE	CRNR =	CORNER
EG =	EXISTING GROUND	PROP =	PROPOSED
RCP =	REINFORCED CONCRETE PIPE	CO =	CLEANOUT
CI =	CAST IRON	SCO =	STORM CLEANOUT
CMP =	CORRUGATED METAL PIPE	SSCO =	SANITARY SEWER CLEANOUT
INV IN =	INVERT IN	WSE =	WATER SURFACE ELEVATION
INV OUT =	INVERT OUT	HP =	HIGH POINT
FFE =	FINISHED FLOOR ELEVATION	TYP =	TYPICAL
PUE =	PUBLIC UTILITY EASEMENT	MH =	MANHOLE
CONC =	CONCRETE	SD =	STORM DRAIN
MIN =	MINIMUM	MAX =	MAXIMUM
CB =	CATCH BASIN	EXST =	EXISTING
DI =	DROP INLET	EXIST =	EXISTING
DIA =	DIAMETER	PVMT =	PAVEMENT
ID =	INNER DIAMETER	LF =	LINEAR FEET
W/ =	WITH	APPROX =	APPROXIMATELY
W/O =	WITHOUT	SDMH =	STORM DRAIN MANHOLE
RR =	RAILROAD	SSMH =	SANITARY SEWER MANHOLE
ROW =	RIGHT OF WAY	LW =	LIMIT OF WORK
ø =	DIAMETER	MECH =	MECHANICAL
WVWA =	WESTERN VIRGINIA WATER AUTHORITY	N =	NORTHING
VDOT =	VIRGINIA DEPARTMENT OF TRANSPORTATION	E =	EASTING
DCR =	VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION	TOC =	TOP OF CURB ELEVATION
		BOC =	BOTTOM OF CURB ELEVATION
TW =	TOP OF WALL ELEVATION	FH =	FIRE HYDRANT
BW =	BOTTOM OF WALL ELEVATION	PSI =	POUNDS PER SQUARE INCH
HT =	HEIGHT	PSF =	POUNDS PER SQUARE FOOT
RD =	ROOF DRAIN	GPM =	GALLONS PER MINUTE
TK =	THICK	FT =	FOOT, FEET
L =	LENGTH	IN =	INCH, INCHES
NO. =	NUMBER	OC =	ON CENTER
R =	RADIUS	SAN =	SANITARY SEWER
AC. =	ACRE(S)	N =	NORTHING
SF =	SQUARE FOOT (FEET)	E =	EASTING
PERF =	PERFORATED	WWF =	WELDED WIRE FABRIC
HORIZ =	HORIZONTAL	RHS =	RAINWATER HARVESTING SYSTEM
VERT =	VERTICAL	EXP JT =	EXPANSION JOINT
MDD =	MAXIMUM DRY DENSITY	CC JT =	CRACK CONTROL JOINT
SWM =	STORM WATER MANAGEMENT	CONN =	CONNECTION
OAE =	OR APPROVED EQUAL	ENT =	ENTRANCE
NIC =	NOT IN CONTRACT	KSI =	KIPS PER SQUARE INCH
H.E.S. =	HIGH EARLY STRENGTH	REQD =	REQUIRED

LEGEND

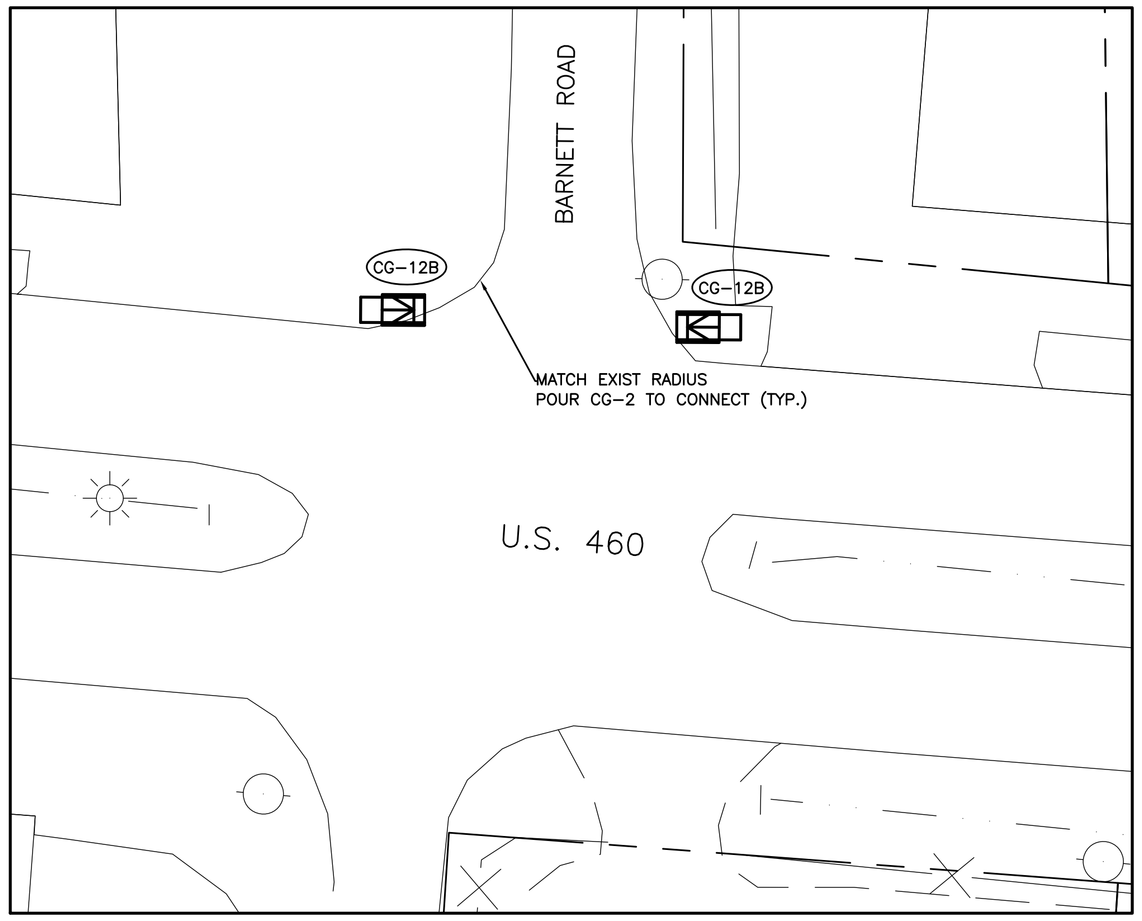
	TREE	UGT	UNDERGROUND TELEPHONE
GAS	GAS LINE		PROPERTY LINE
UGE	LIGHTING CONDUIT	SAN	SANITARY MANHOLE
UGC	UNDERGROUND CABLE		UTILITY POLE
W	WATER LINE		LIGHT POLE
SS	STORM PIPE		GUY WIRE
SAN	SANITARY SEWER	[]	FENCE
LTC	LEVEL THREE COMM.		EDGE OF PAVEMENT
UGT	UNDERGROUND TELEPHONE	PK FOUND	EXISTING SURVEY NAIL
949	NEW CONTOUR LINE	GV	GAS VALVE
950	CONTOUR LINE	WATER	SMALL WATER METER/VALVE
	FLOODPLAIN BOUNDARY	WM	WATERLINE MANHOLE
SAN	SANITARY MANHOLE	TM	TELEPHONE MANHOLE
ST	STORM MANHOLE		
CO	CLEANOUT		
AEP	ELECTRIC MANHOLE		
FH	FIRE HYDRANT		

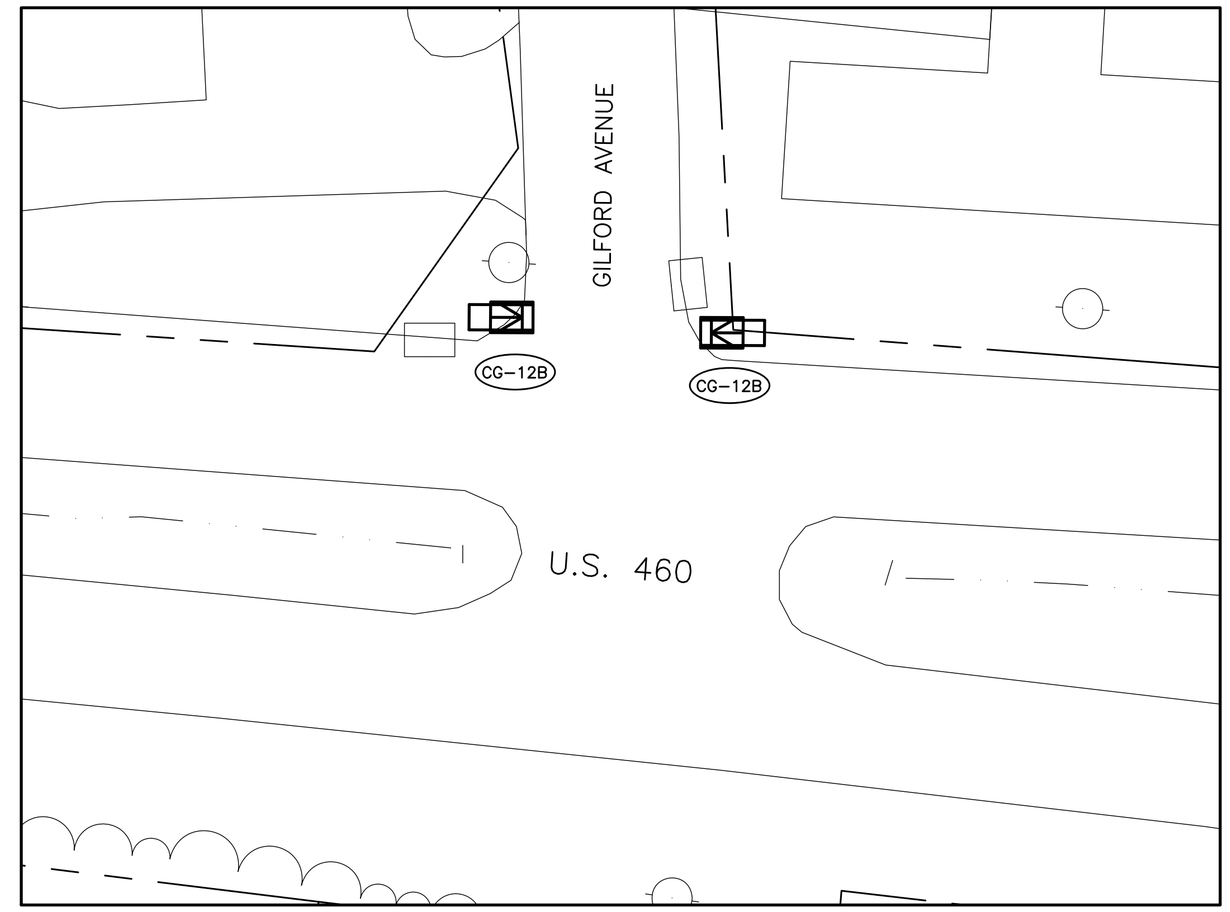
APPROVED FOR CONSTRUCTION

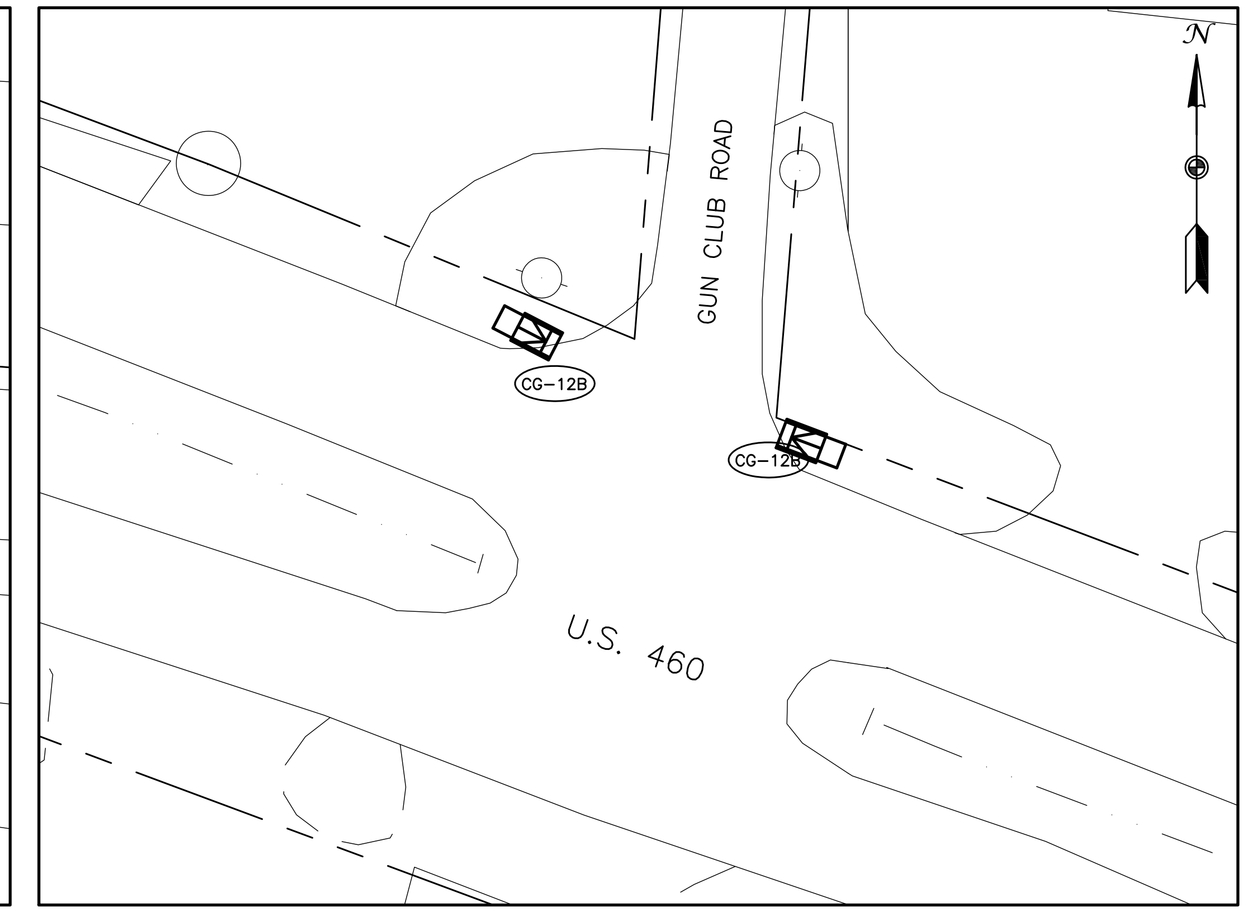
ROANOKE CITY ENGINEER	DATE
DIRECTOR OF PUBLIC WORKS	DATE
ASSISTANT CITY MANAGER - OPERATIONS	DATE

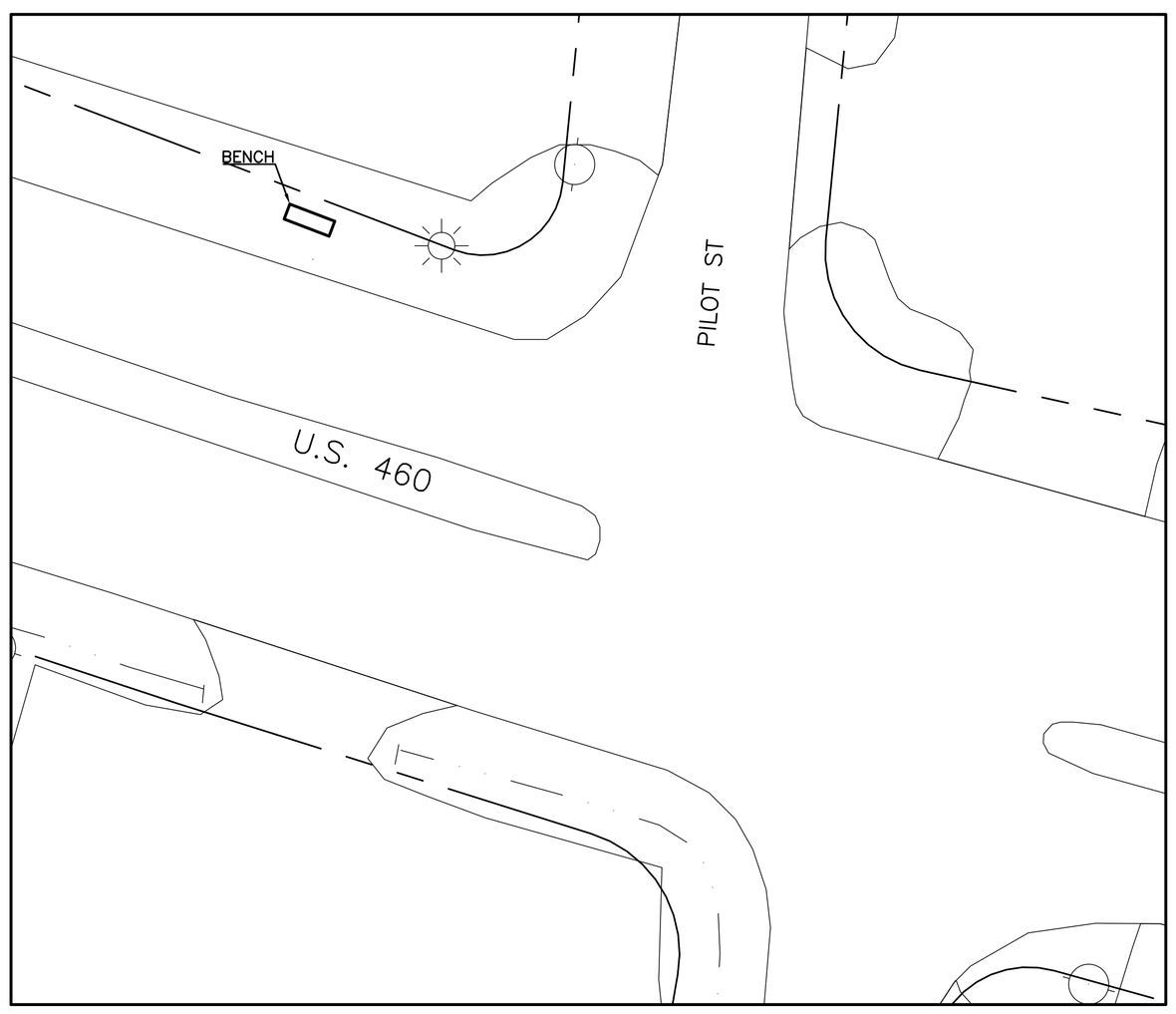
SHEET NUMBER: 1 OF 7

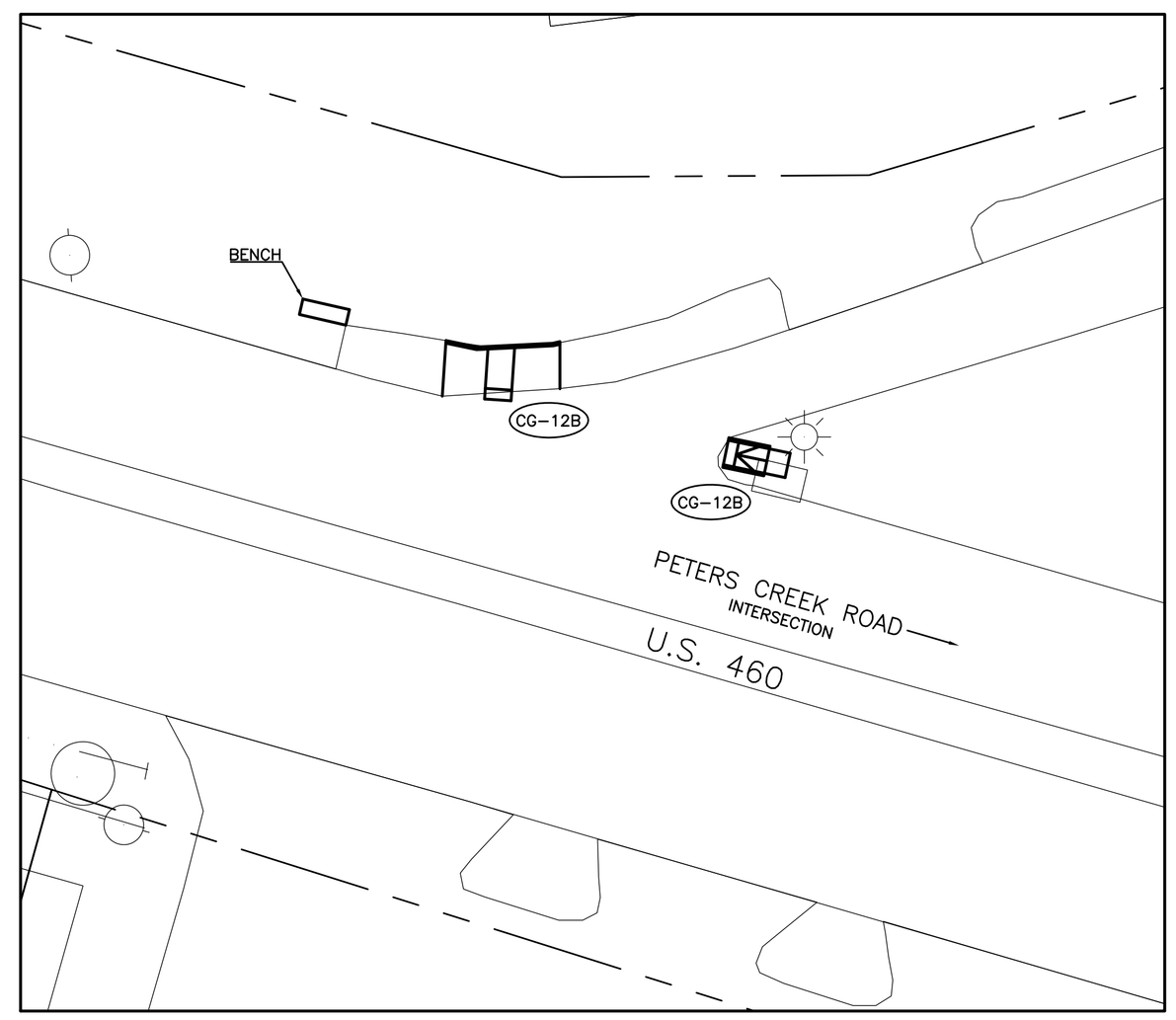
PLAN NO. 6811 MELROSE AVENUE ADA CURB RAMP IMPROVEMENT PROJECT

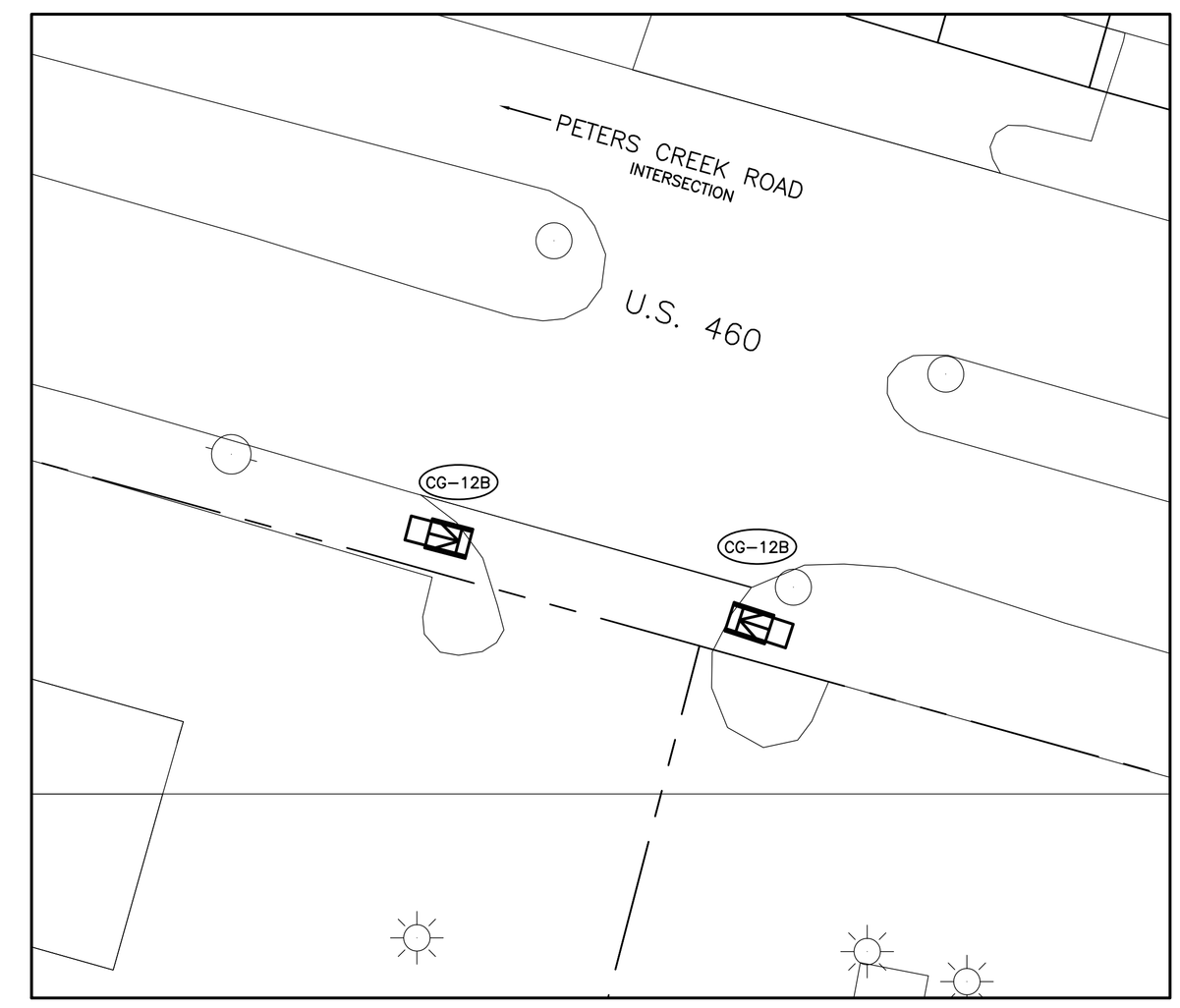












IF THIS DRAWING IS A REDUCTION
GRAPHIC SCALE MUST BE USED

20' 0' 20'

SCALE 1" = 20'

ROANOKE

OFFICE OF THE
CITY ENGINEER
215 CHURCH AVENUE, S.W.
ROOM 350
PHONE: (540) 853-2731
FAX: (540) 853-1364
WWW.ROANOKEVA.GOV

DESIGNED: PMC

DRAWN: PMC

CHECKED: PMC

SEALS:

REV.	DATE:	DESCRIPTION

DATE: 06/04/2015

SCALE: 1"=20'-0"
24"x36" SHEET

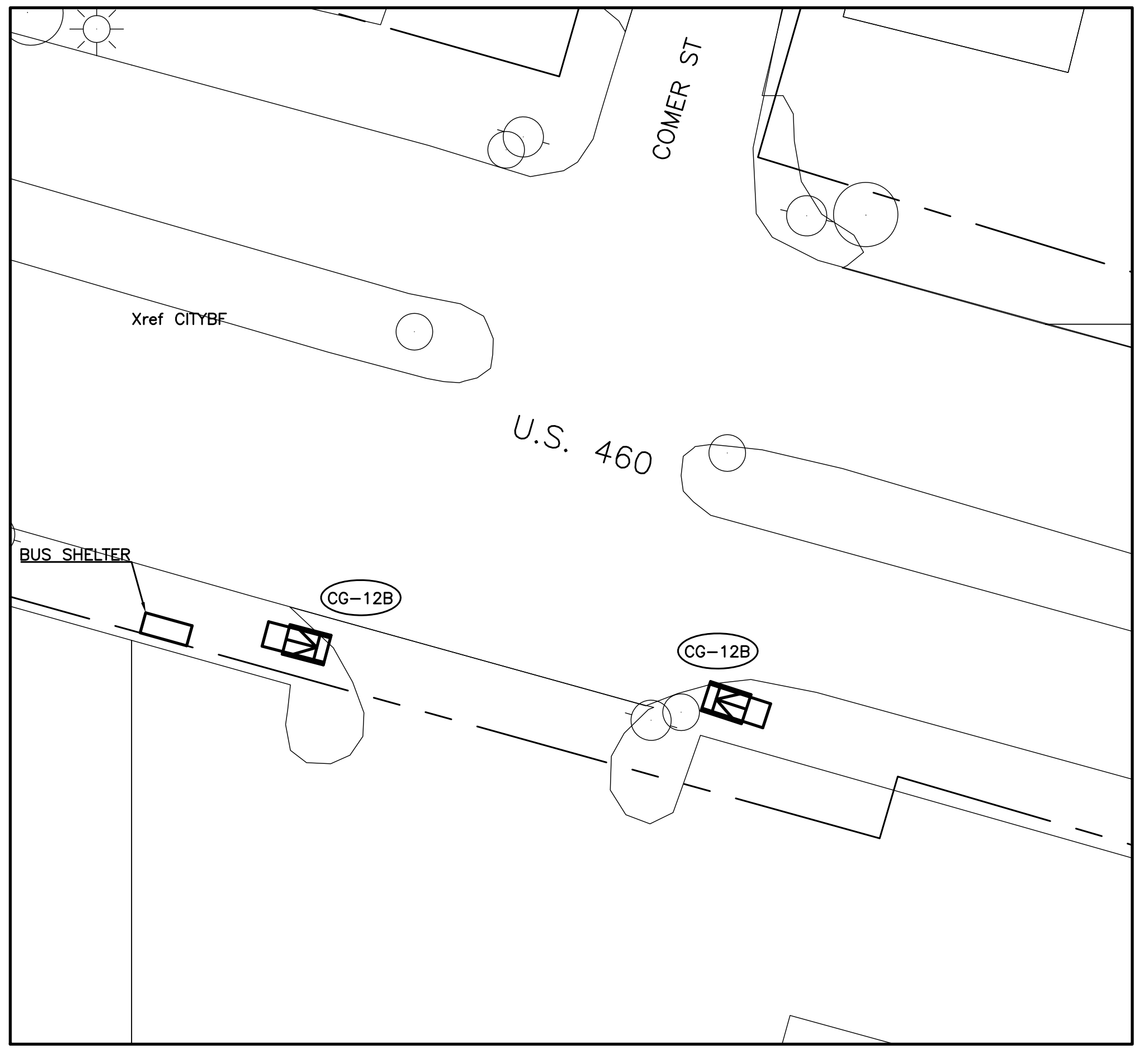
MELROSE AVENUE CURB RAMP
IMPROVMENT PROJECT

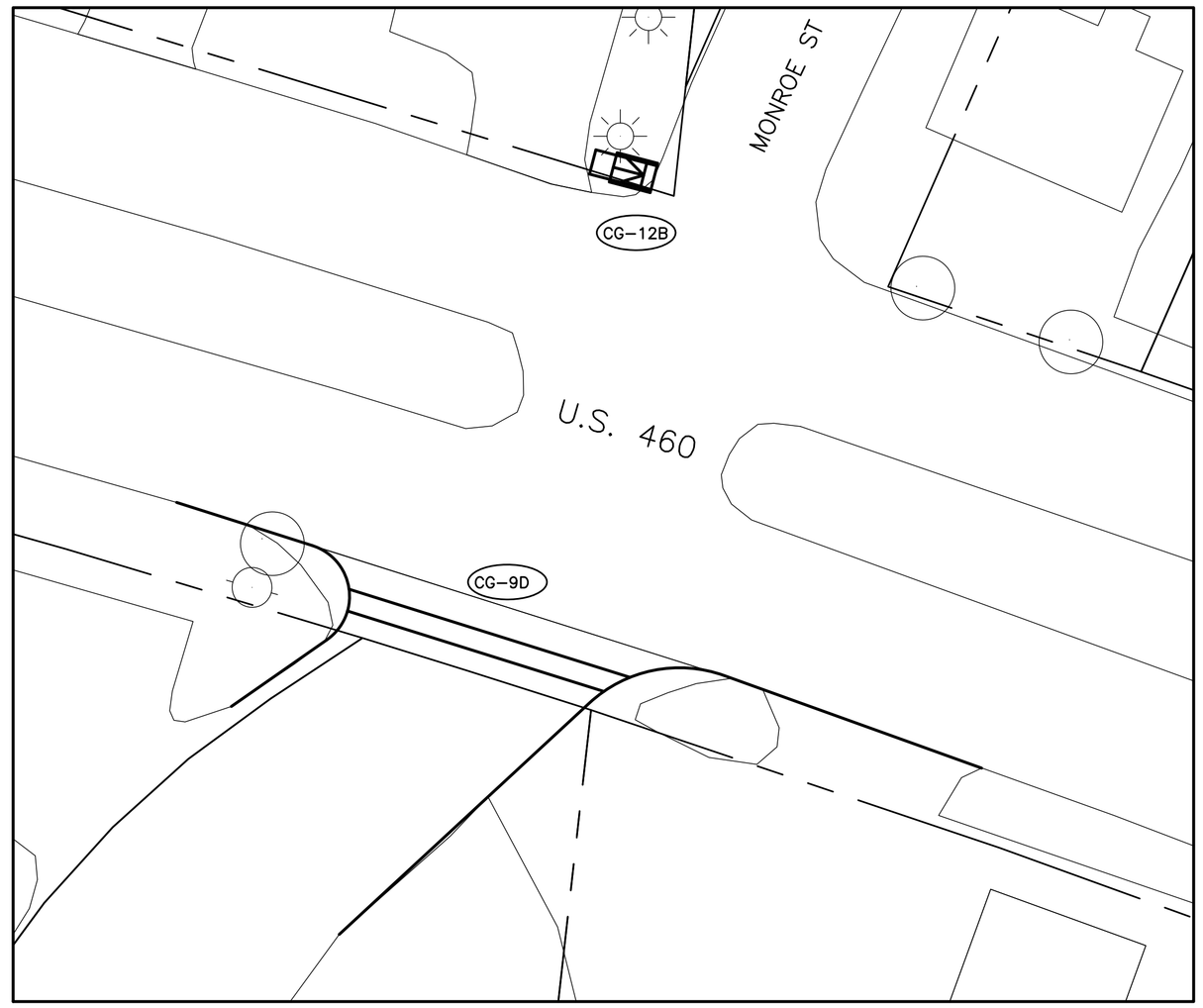
CITY OF ROANOKE, VIRGINIA

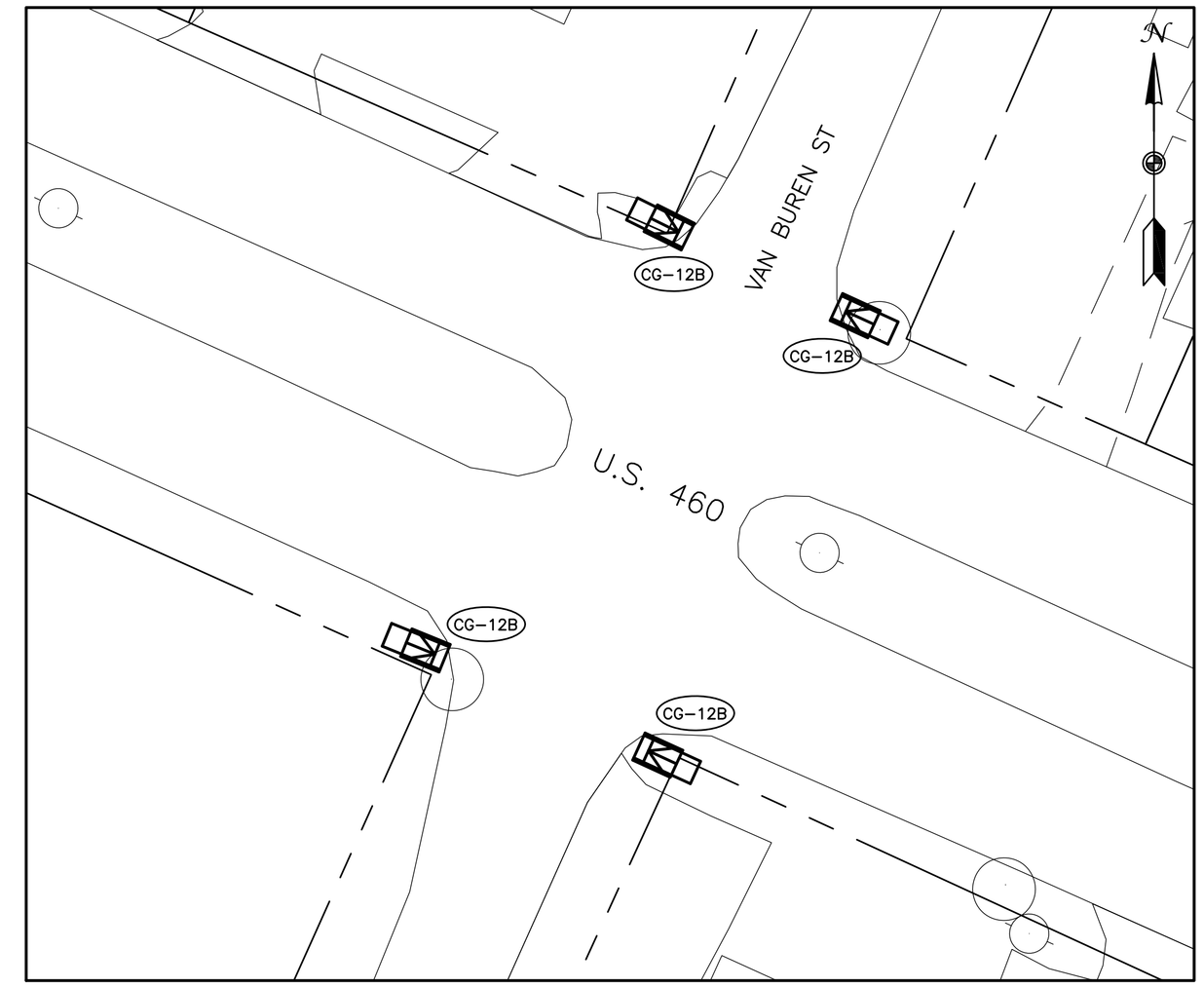
PLANS

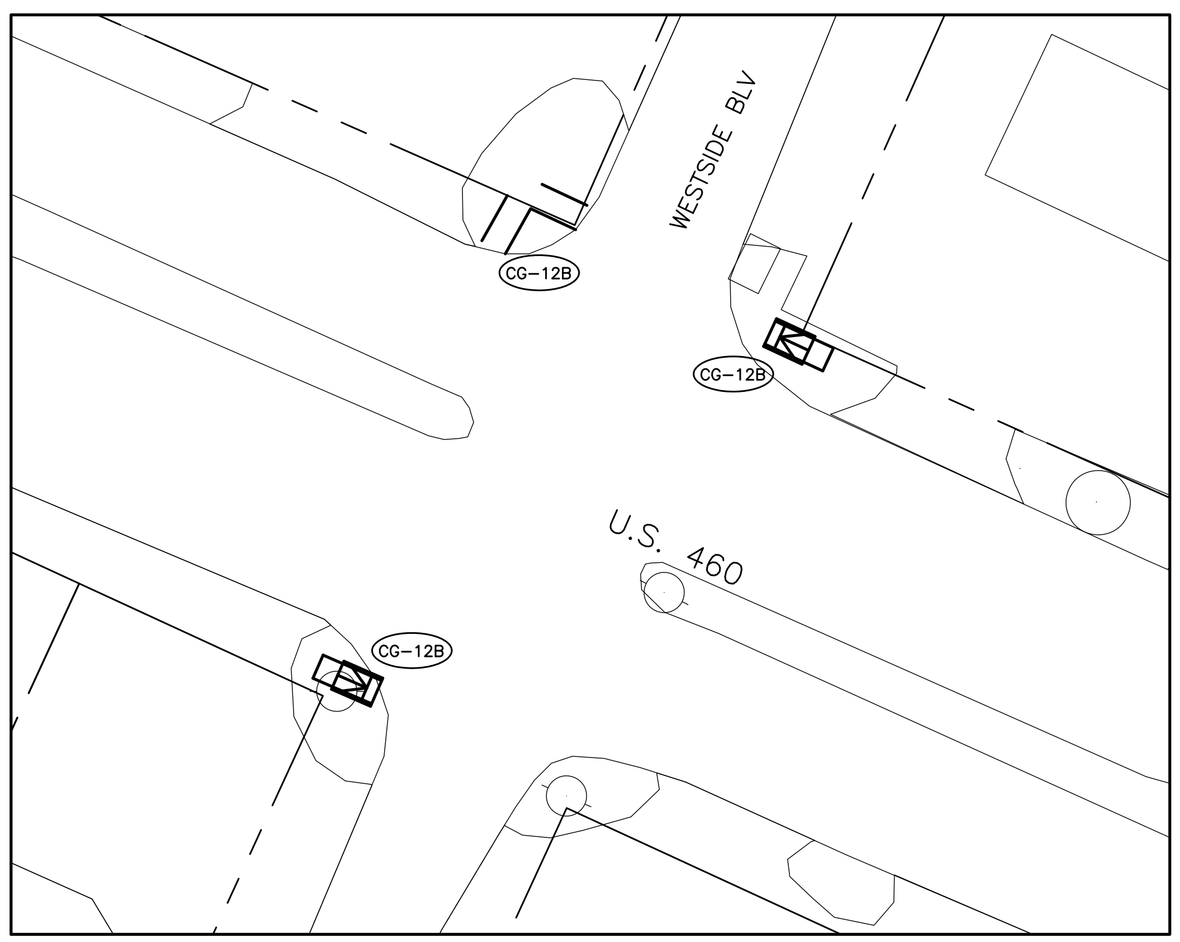
SHEET 2 OF 7

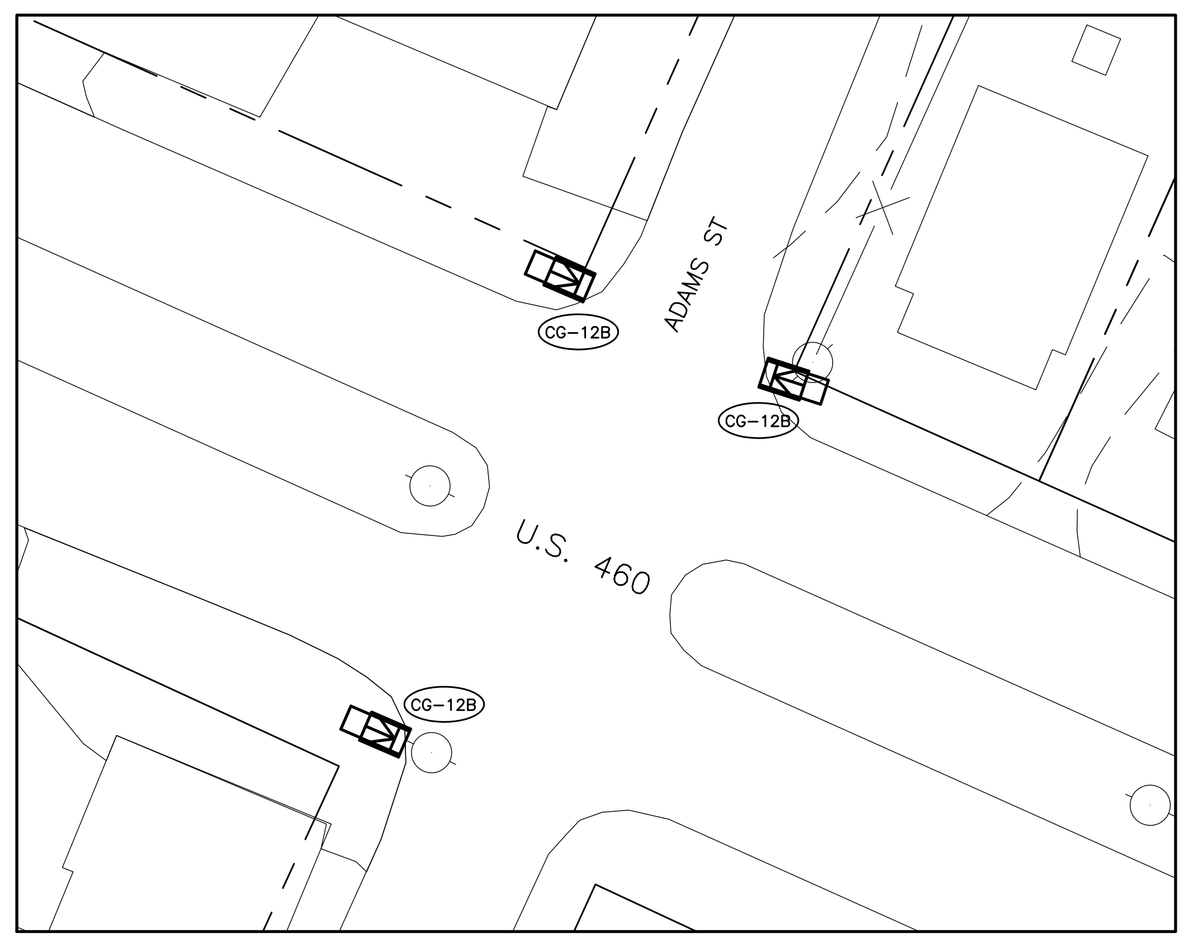
PLAN NO. XXXX

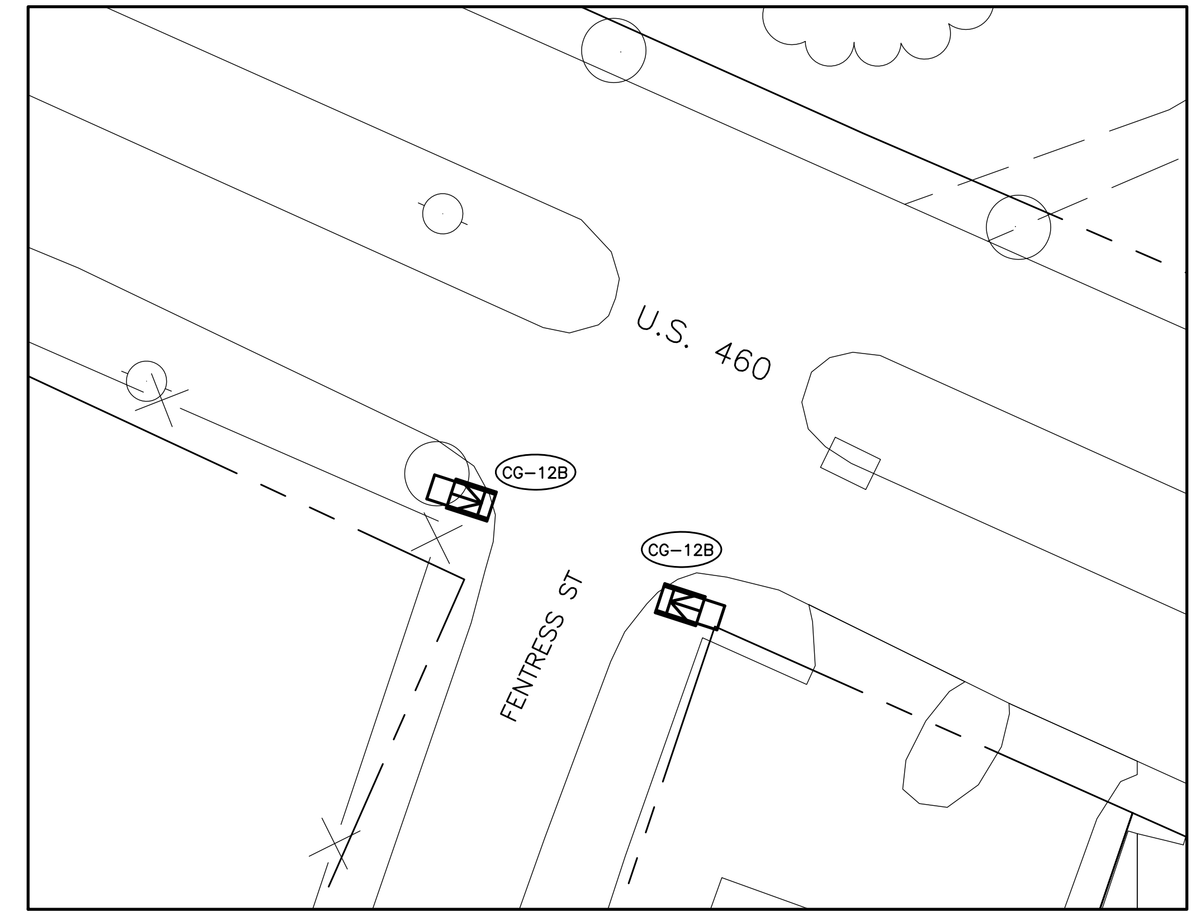












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OFFICE OF THE
CITY ENGINEER
215 CHURCH AVENUE, S.W.
ROOM 350
PHONE: (540) 853-2731
FAX: (540) 853-1364
WWW.ROANOKEVA.GOV
ROANOKE

DESIGNED:	SEALS:	REV.	DATE:	DESCRIPTION
PMC				
DRAWN: PMC				
CHECKED: PMC				

DATE: 06/04/2015

SCALE: 1"=20'-0" 24"x36" SHEET

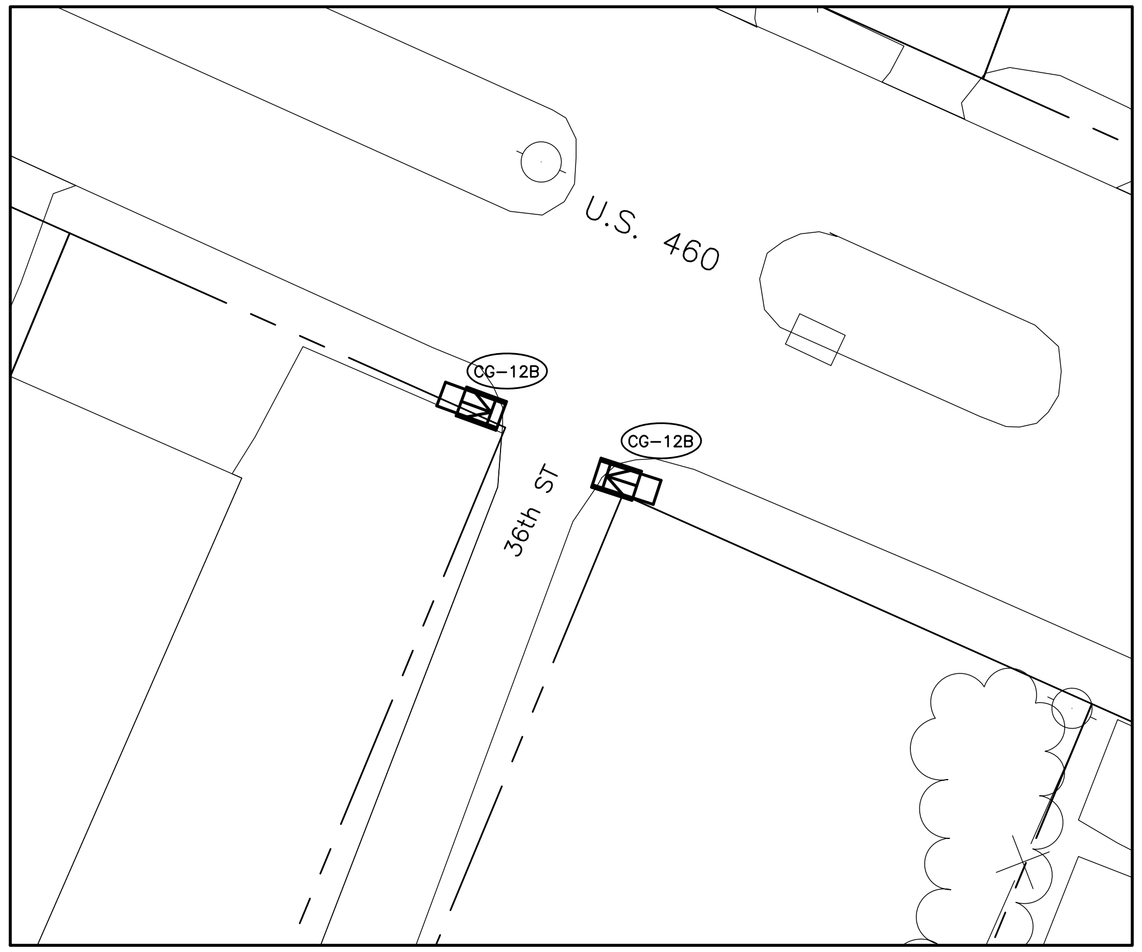
MELROSE AVENUE CURB RAMP IMPROVEMENT PROJECT

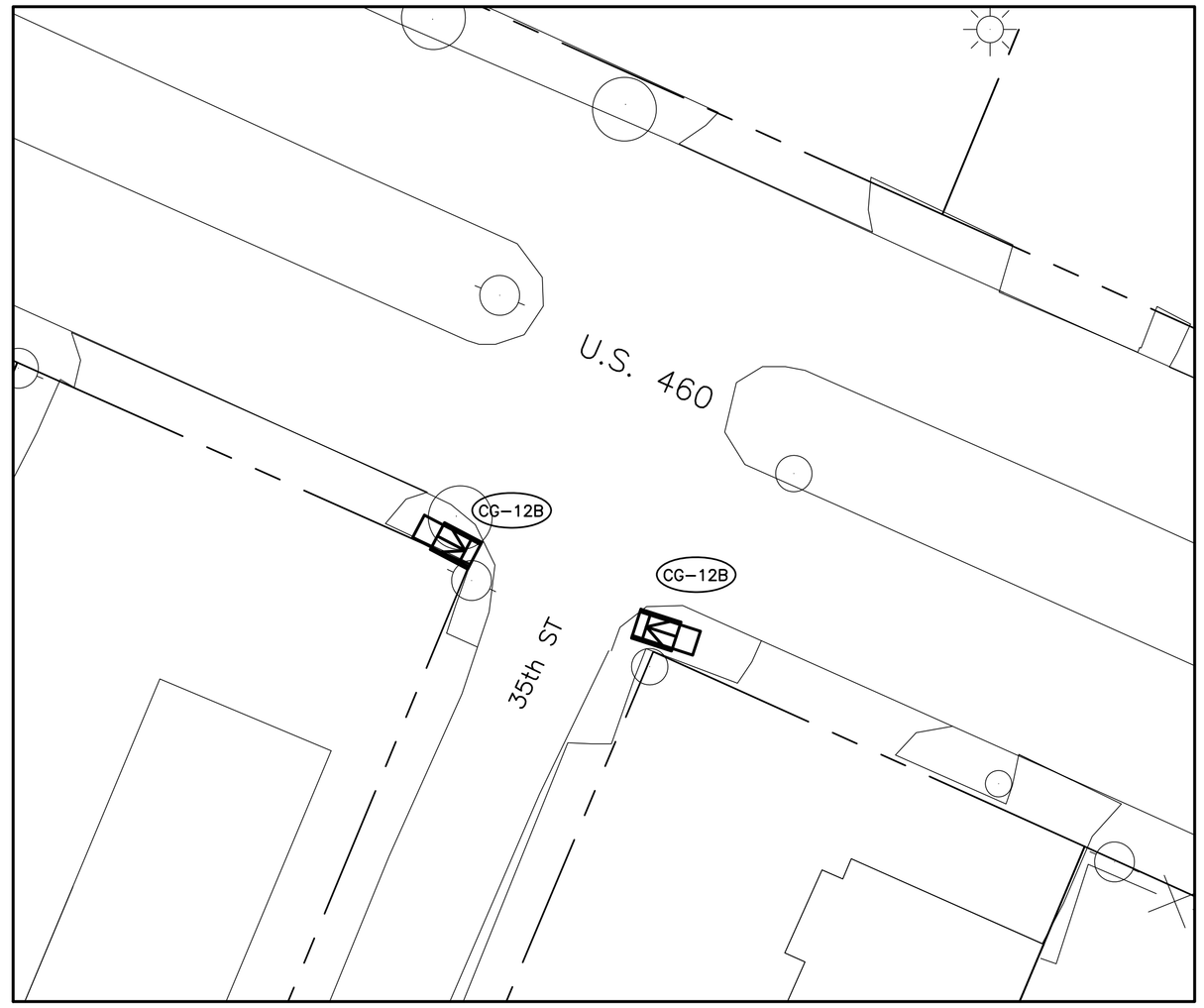
CITY OF ROANOKE, VIRGINIA

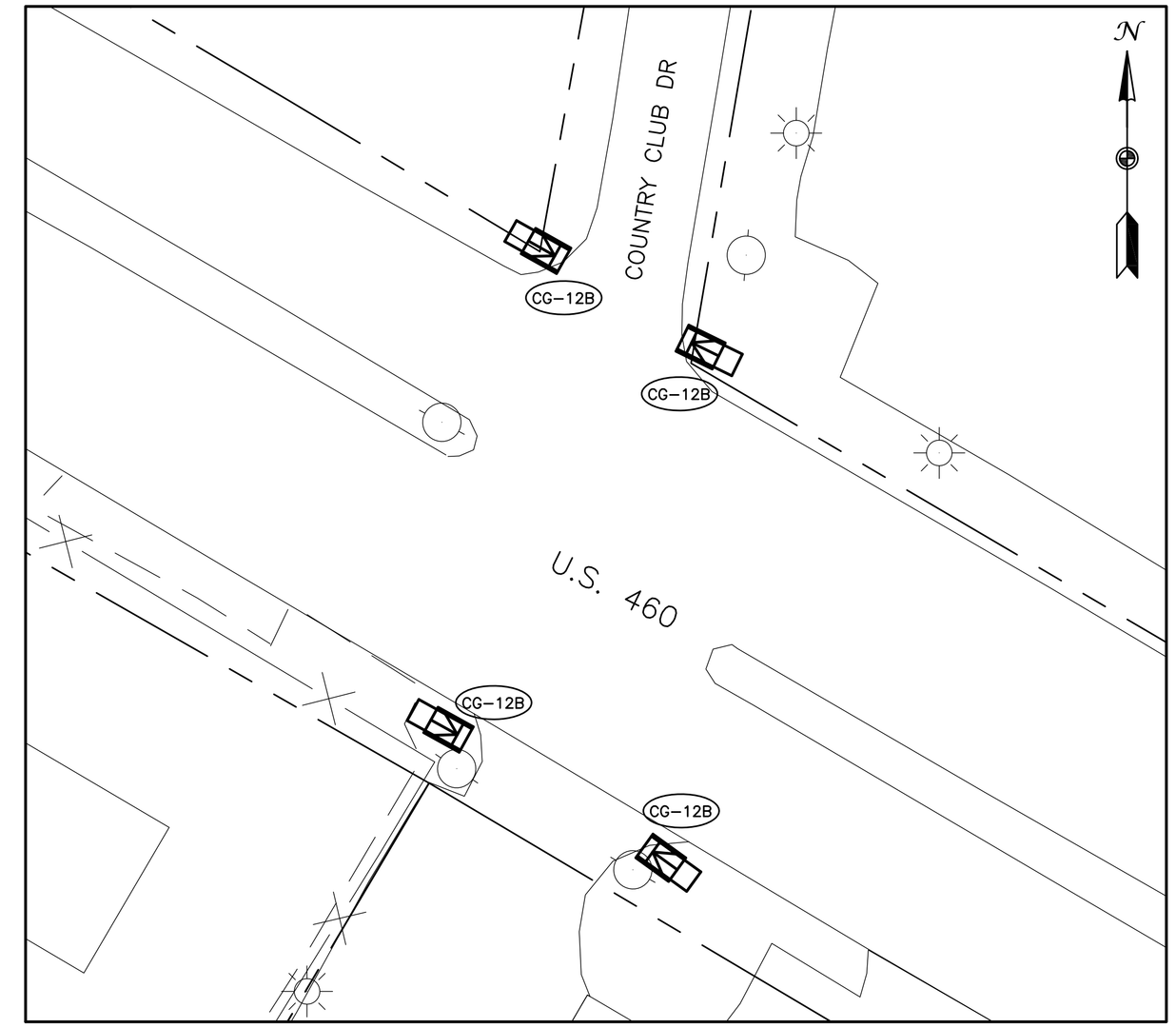
PLANS

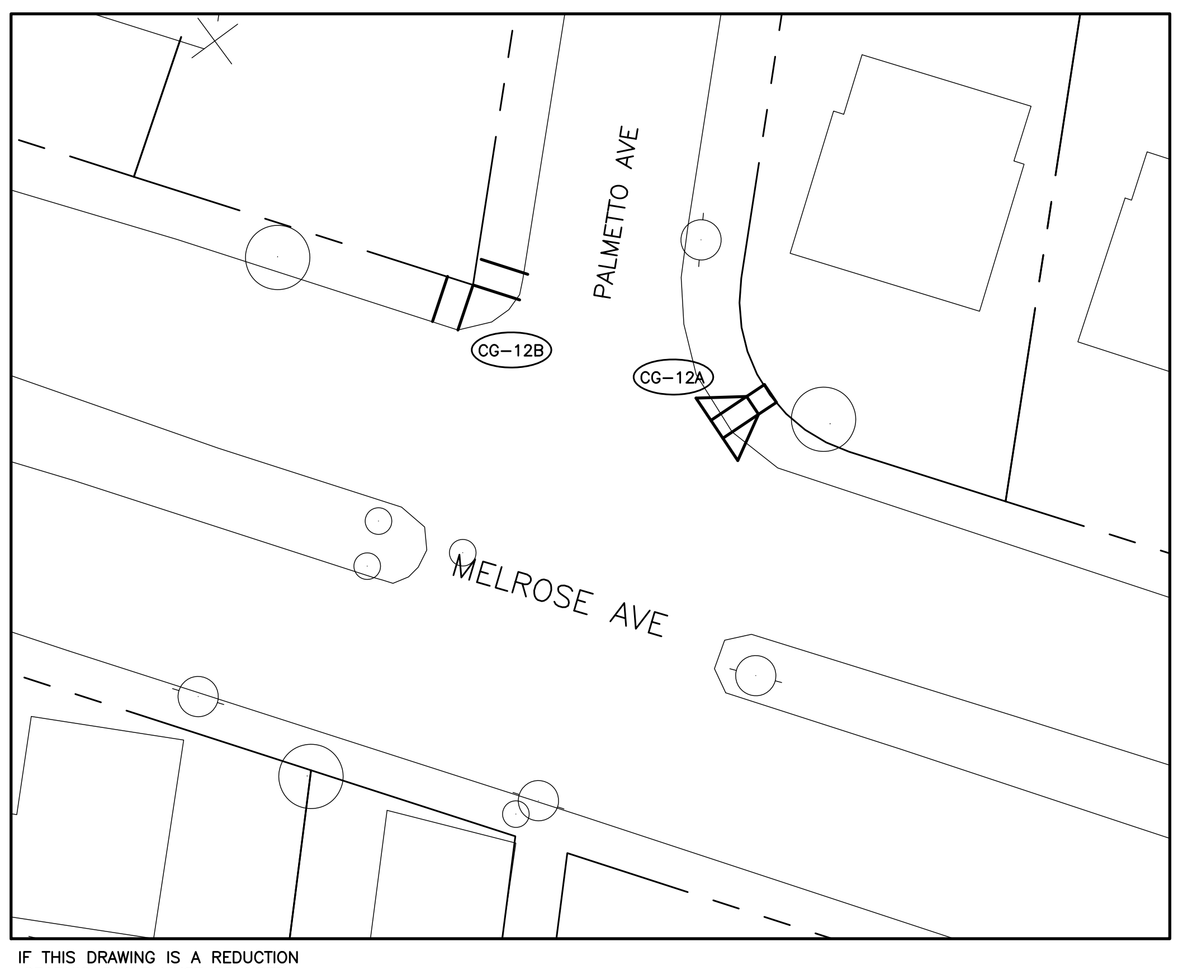
SHEET 3 OF 7

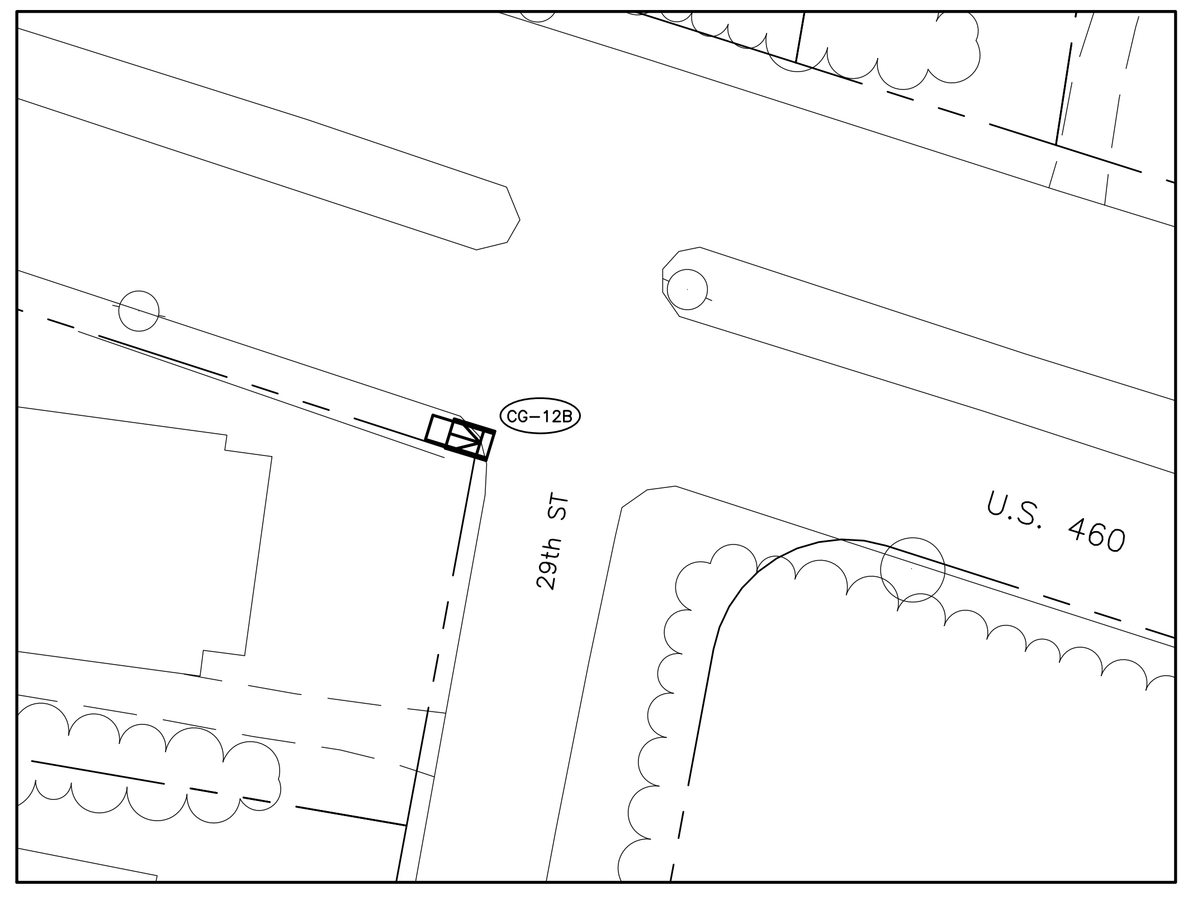
PLAN NO. XXXX

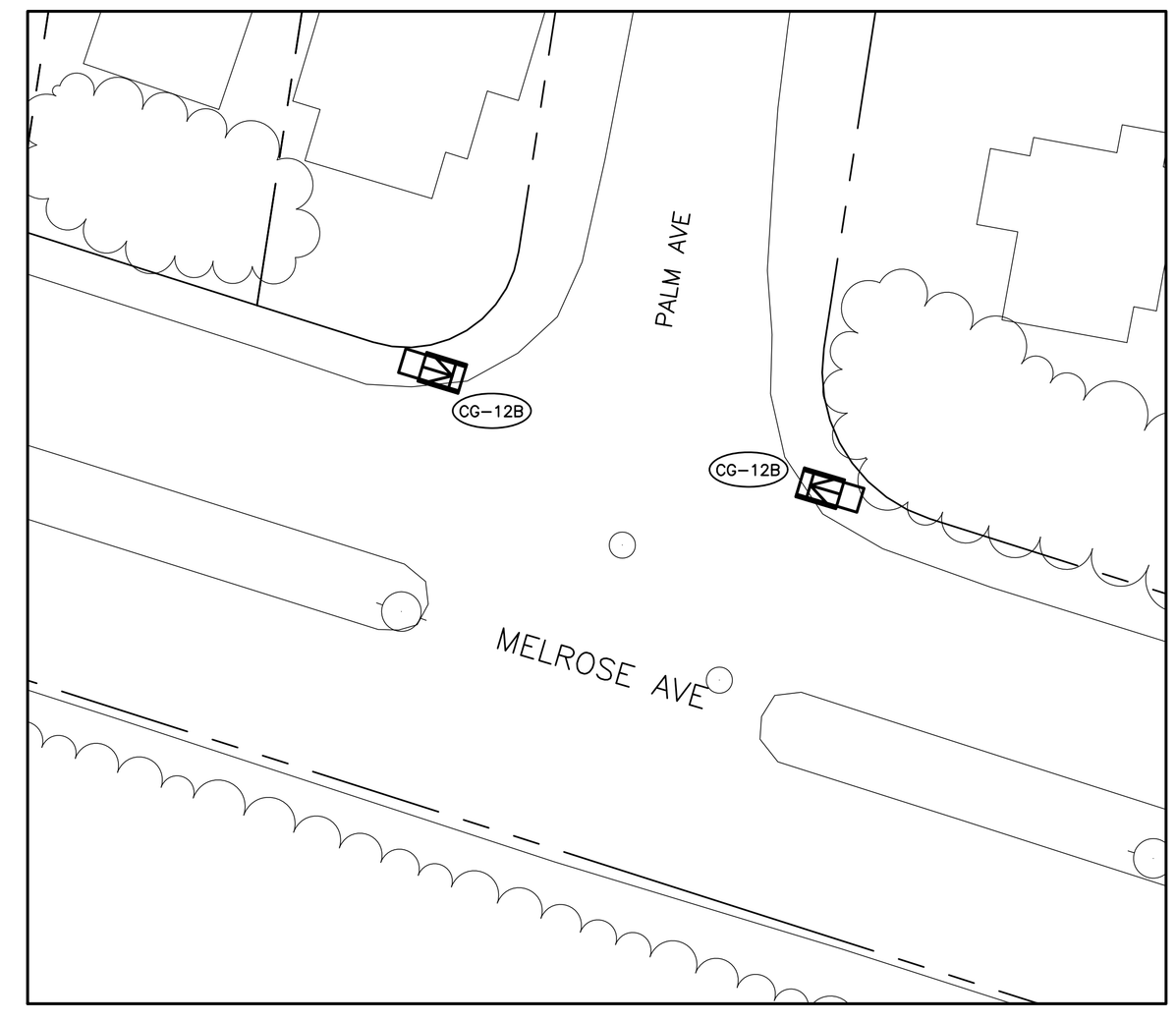












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OFFICE OF THE
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ROANOKE

215 CHURCH AVENUE, S.W.
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PHONE: (540) 853-2731
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DATE: 06/04/2015

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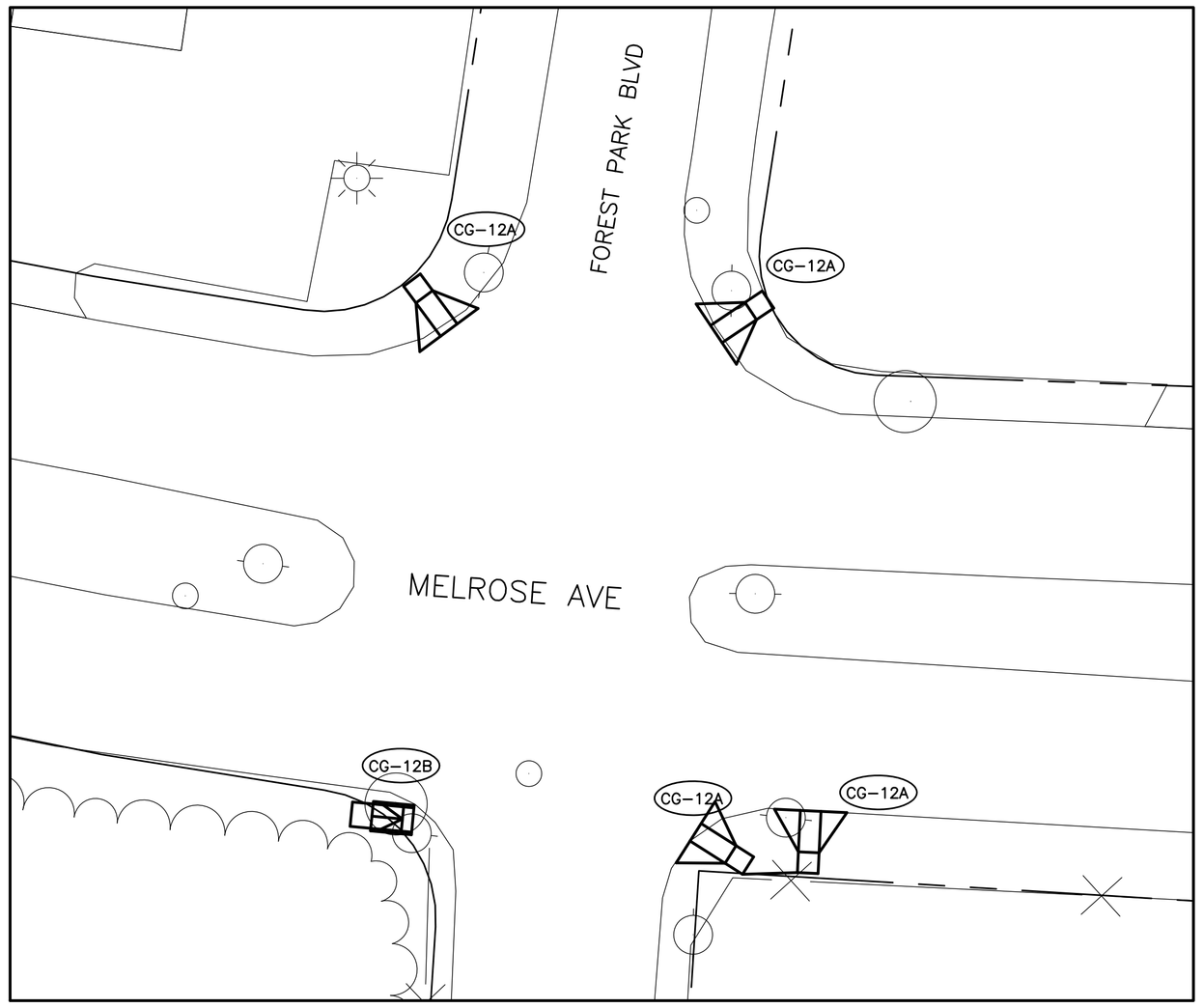
MELROSE AVENUE CURB RAMP
IMPROVEMENT PROJECT

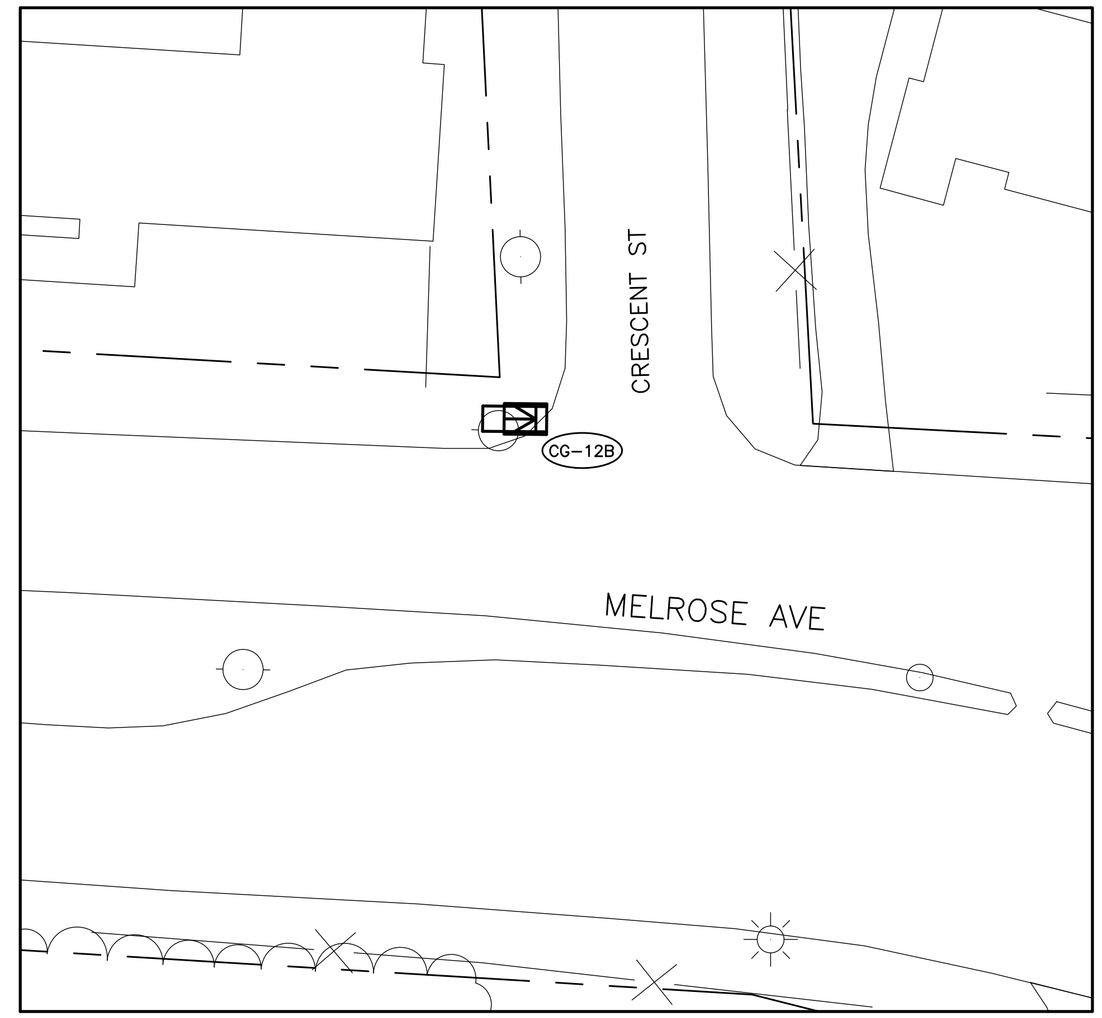
CITY OF ROANOKE, VIRGINIA

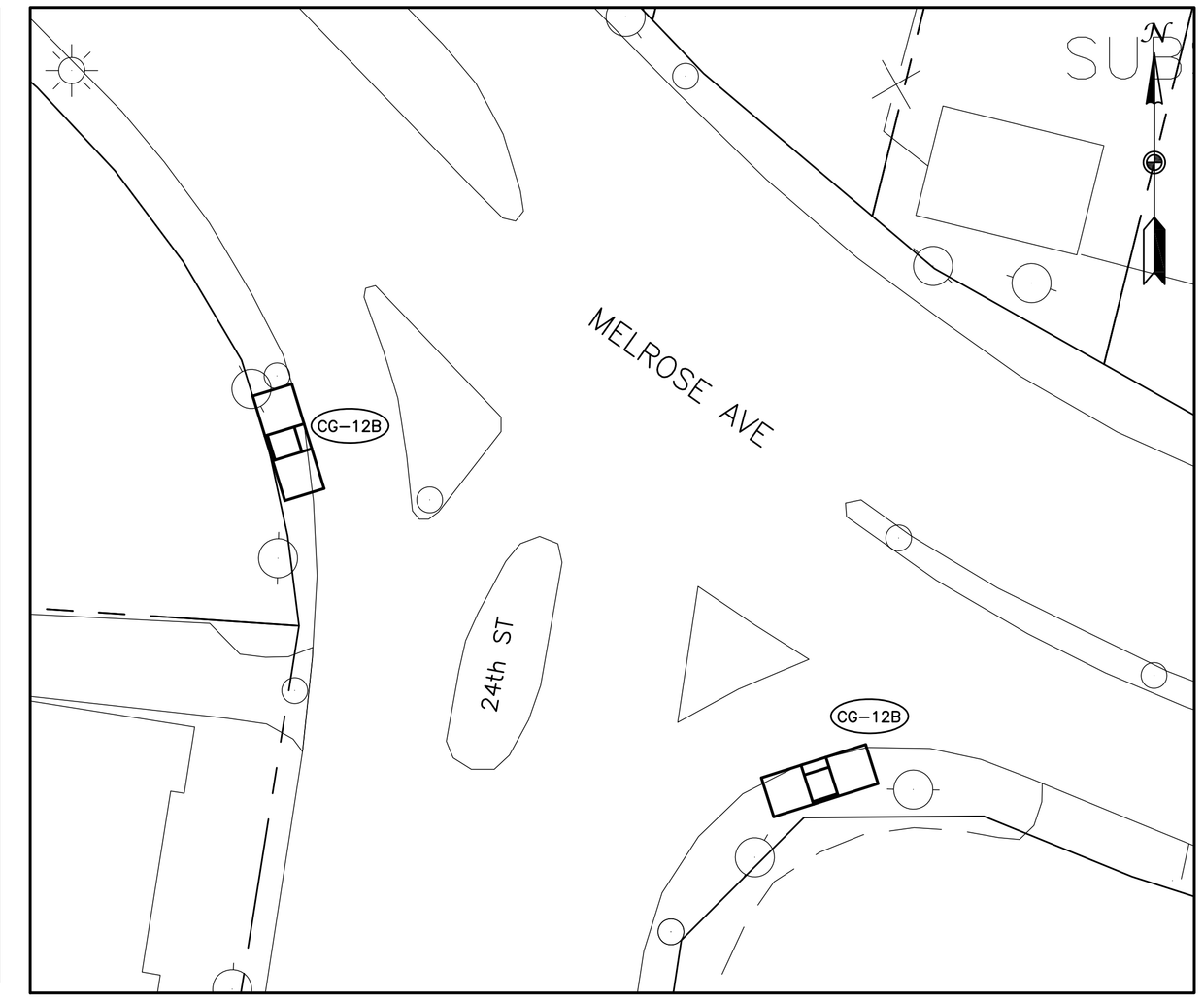
PLANS

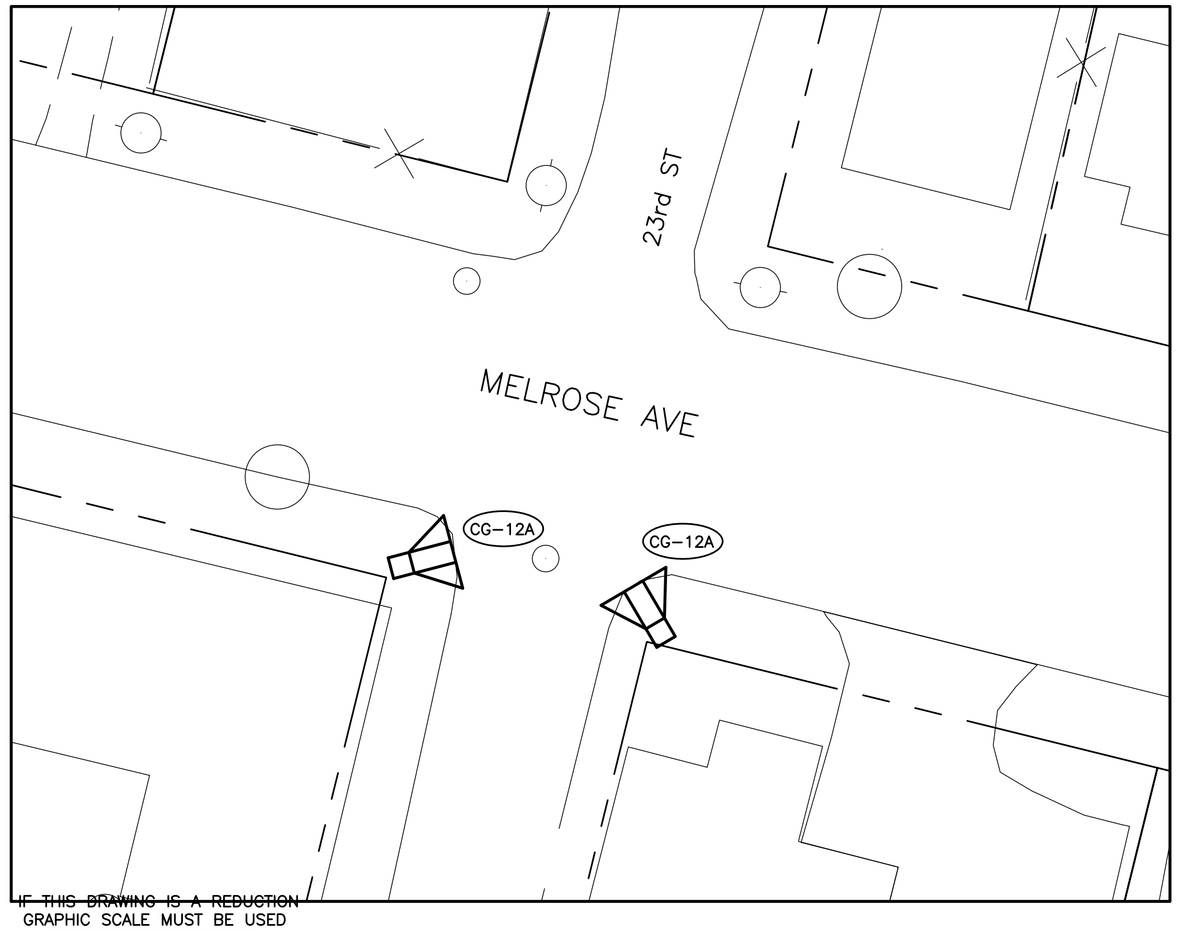
SHEET 4 OF 7

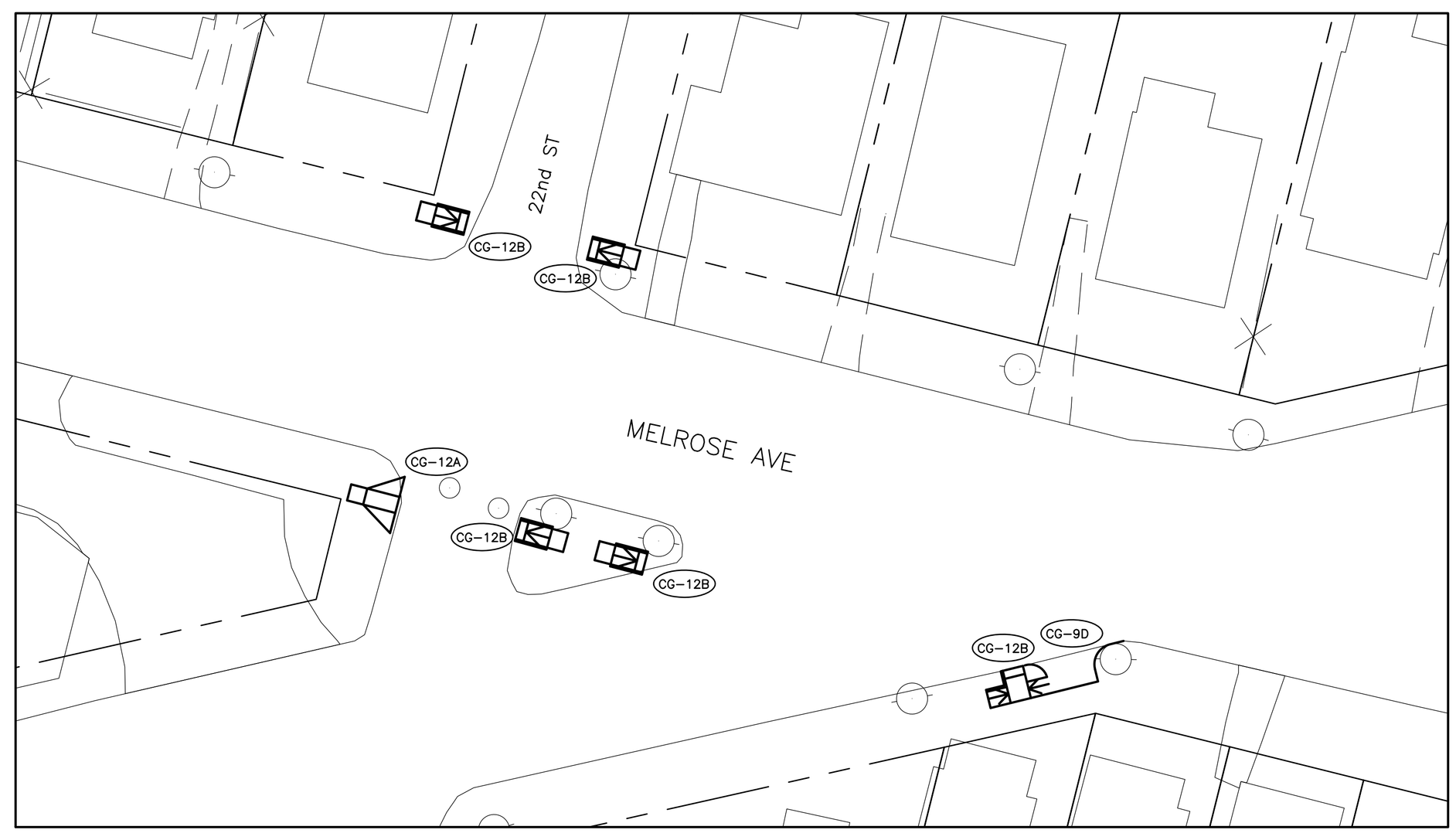
PLAN NO. XXXX











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OFFICE OF THE
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215 CHURCH AVENUE, S.W.
ROOM 350
PHONE: (540) 853-2731
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DRAWN: PMC

CHECKED: PMC

SEALS:

REV.	DATE:	DESCRIPTION

DATE: 06/04/2015

SCALE: 1"=20'-0"
24"x36" SHEET

MELROSE AVENUE CURB RAMP IMPROVEMENT PROJECT

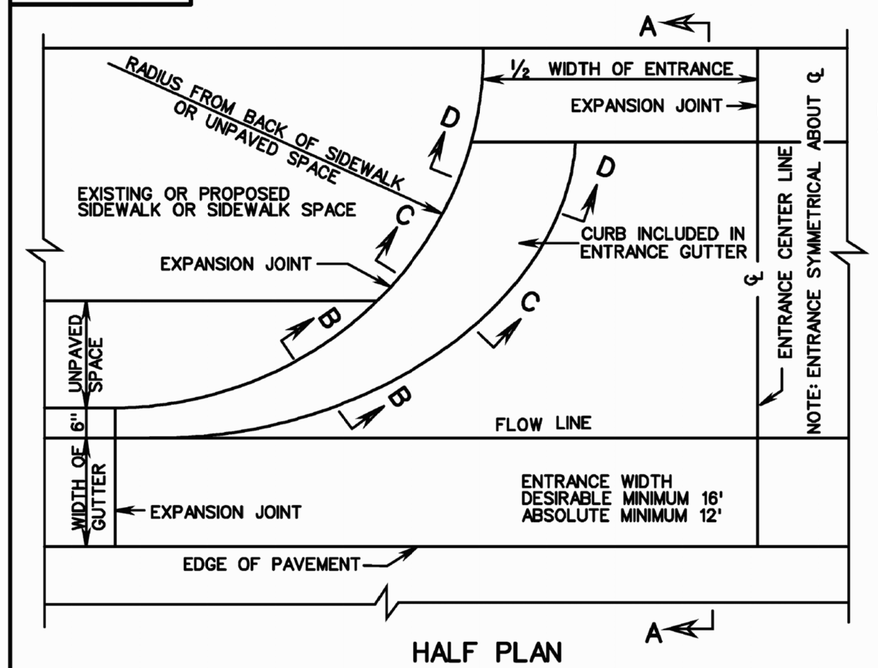
CITY OF ROANOKE, VIRGINIA

PLANS

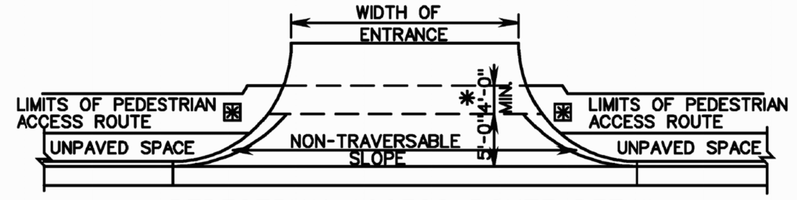
SHEET 5 OF 7

PLAN NO. XXXX

CG-9D

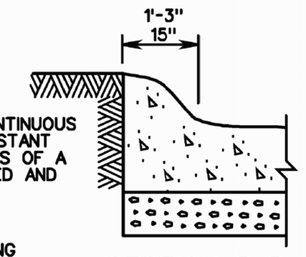


HALF PLAN



PEDESTRIAN ACCESS ROUTE DETAIL

ADDITIONAL RIGHT-OF-WAY IS REQUIRED IF THE LIMITS OF PEDESTRIAN ACCESS ROUTE EXTEND BEYOND EXISTING OR PROPOSED VDOT RIGHT-OF WAY.

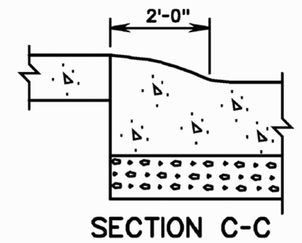


SECTION B-B

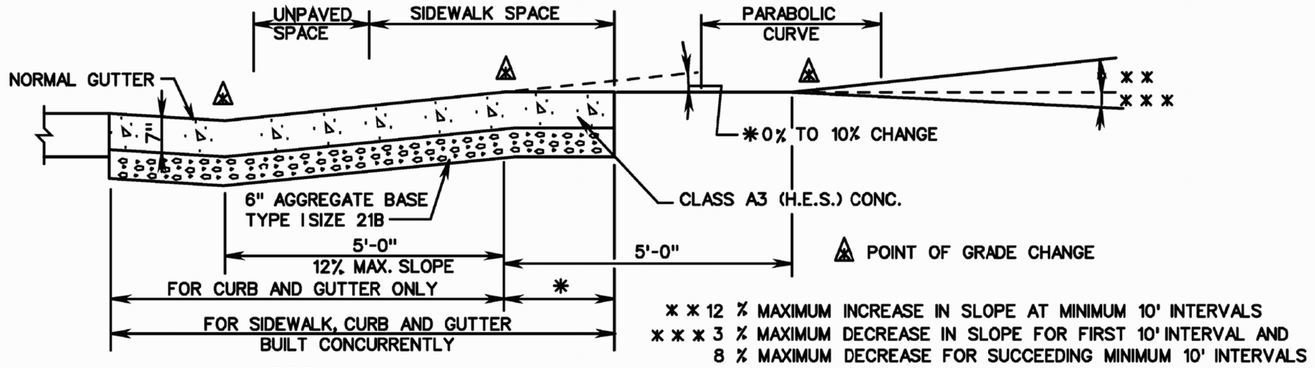
PEDESTRIAN ACCESS ROUTES PROVIDE A CONTINUOUS UNOBSTRUCTED, STABLE, FIRM AND SLIP RESISTANT PATH CONNECTING ALL ACCESSIBLE ELEMENTS OF A FACILITY THAT CAN BE APPROACHED, ENTERED AND USED BY PEDESTRIANS.

* IF PEDESTRIAN ACCESS ROUTES ARE BEING PROVIDED, A MINIMUM 4' TRAVERSABLE WIDTH IS REQUIRED WITH A MAX. 2% CROSS SLOPE.

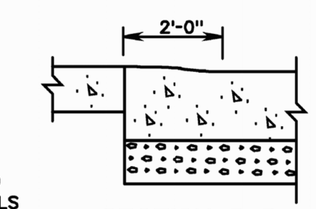
WHEN USED IN CONJUNCTION WITH STANDARD CG-3 OR CG-7, THE CURB FACE ON THIS STANDARD IS TO BE ADJUSTED TO MATCH THE MOUNTABLE CURB CONFIGURATION.



SECTION C-C



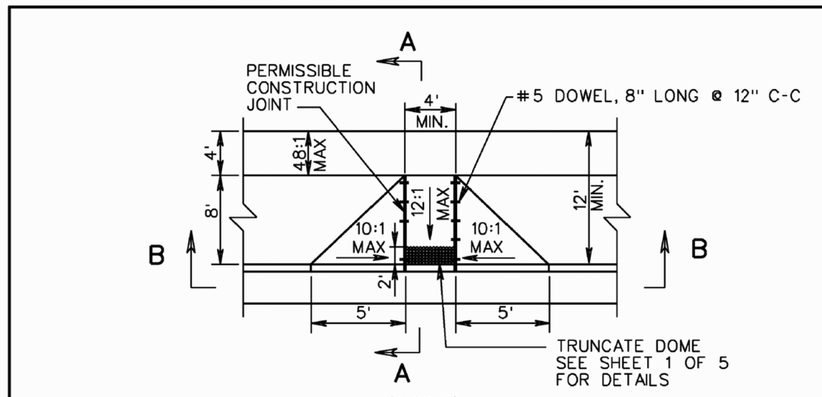
SECTION A-A

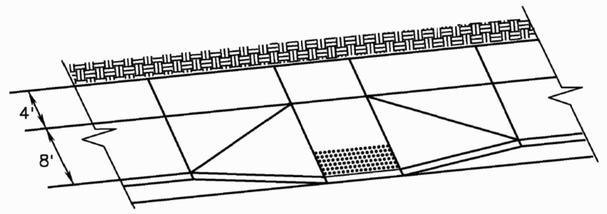


SECTION D-D

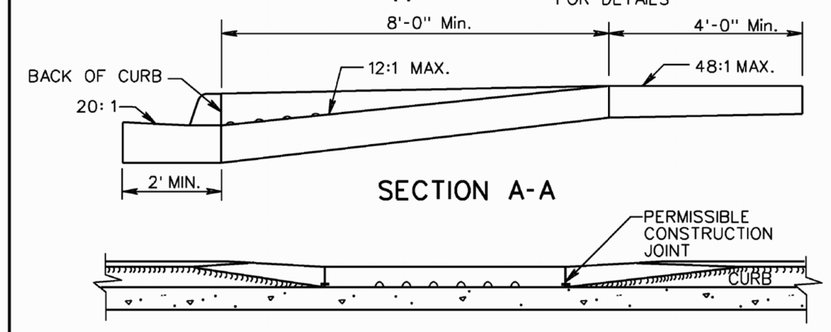
VDOT ROAD AND BRIDGE STANDARDS	STANDARD ENTRANCE GUTTER	SPECIFICATION REFERENCE
SHEET 1 OF 1 / REVISION DATE	VIRGINIA DEPARTMENT OF TRANSPORTATION	502
203.03		

CG-12



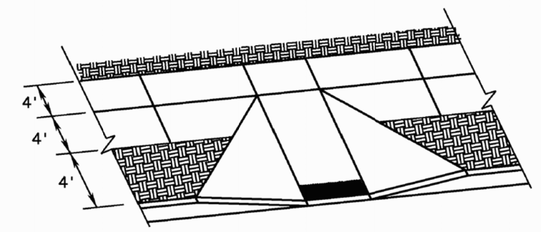


TYPICAL DESIGN



SECTION A-A

SECTION B-B

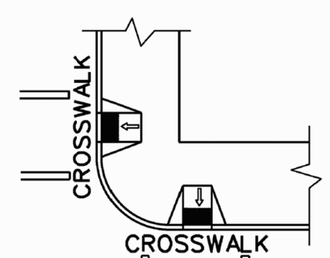


TYPE A WITH BUFFER STRIP

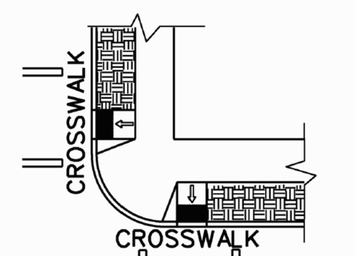
NOTES:

FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.

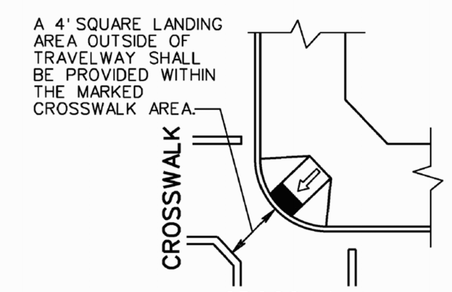
THIS DESIGN TO BE USED FOR CONSTRUCTION THAT INCORPORATES WIDER SIDEWALK. LANDING (4' WIDE) REQUIRED AT TOP OF CURB RAMP. MINIMUM CURB RAMP LENGTH 8 FEET FOR NEW CONSTRUCTION, 6 FEET FOR ALTERATIONS.



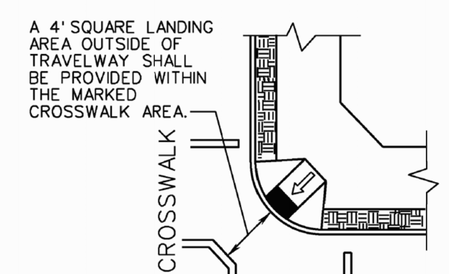
TYPICAL PLACEMENT AT INTERSECTION WITHIN CROSSWALK



TYPICAL PLACEMENT AT INTERSECTION WITHIN CROSSWALK (WITH BUFFER STRIP)



CROSSWALK DIAGONAL PLACEMENT



CROSSWALK DIAGONAL PLACEMENT WITH BUFFER STRIP

SPECIFICATION REFERENCE	CG-12 DETECTABLE WARNING SURFACE	VDOT ROAD AND BRIDGE STANDARDS
105 502	TYPE A (PERPENDICULAR) APPLICATION VIRGINIA DEPARTMENT OF TRANSPORTATION	REVISION DATE 7/11 / SHEET 2 OF 5 203.06

OFFICE OF THE CITY ENGINEER
ROANOKE
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PHONE: (540) 853-2731
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CHECKED: PMC

SEALS:

REV.	DATE:	DESCRIPTION

DATE: 06/04/2015

SCALE: NO SCALE 24"x36" SHEET

MELROSE AVENUE CURB RAMP IMPROVEMENT PROJECT

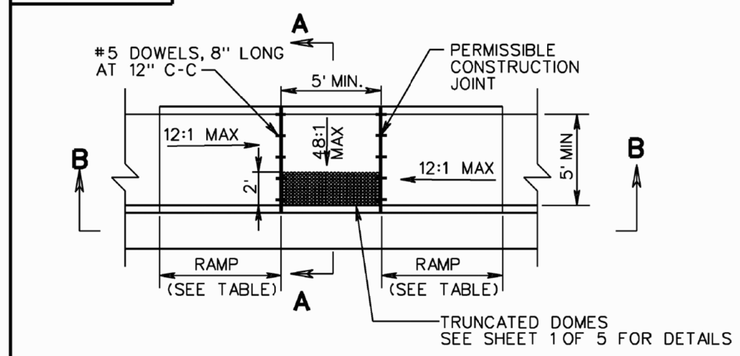
CITY OF ROANOKE, VIRGINIA

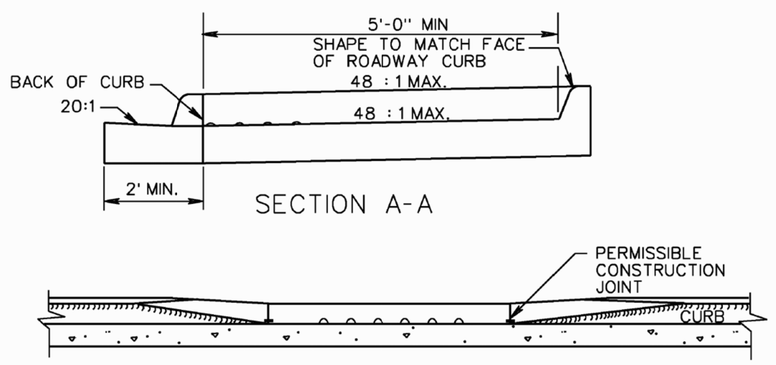
DETAILS

SHEET 6 OF 7

PLAN NO. XXXX

CG-12





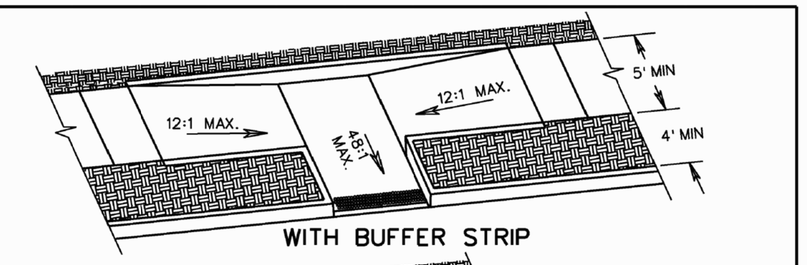
SECTION A-A

SECTION B-B

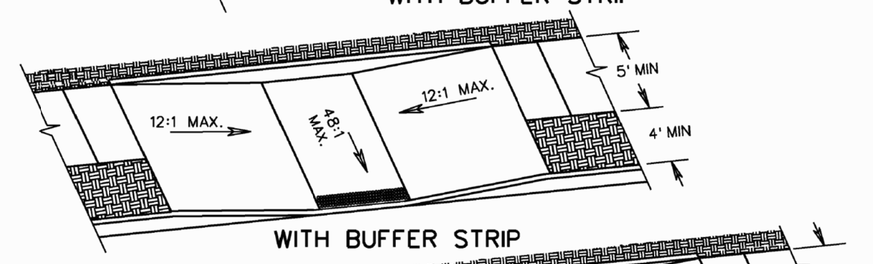
NOTES: FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.

THE REQUIRED LENGTH OF A PARALLEL RAMP IS LIMITED TO 15 FEET, REGARDLESS OF THE SLOPE.

TYPE B PARALLEL APPLICATION		
ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	
	4" CURB	6" CURB
0	4	6
1	5	7
2	5	8
3	6	9
4	8	12
5	10	15
6	14	15



WITH BUFFER STRIP



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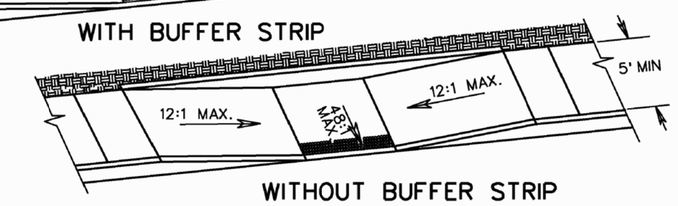
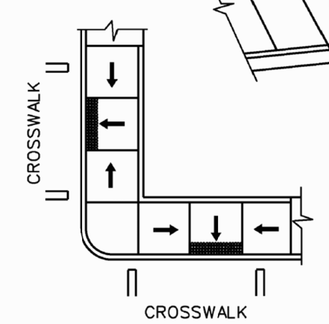
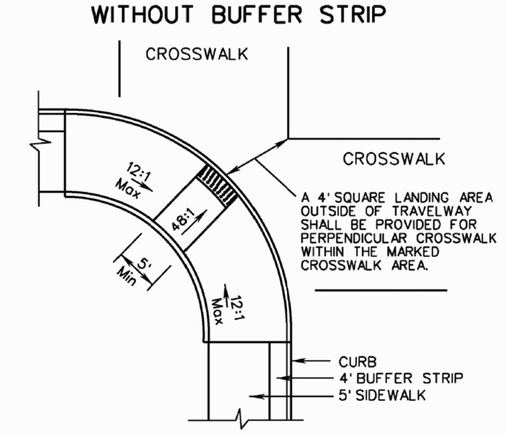


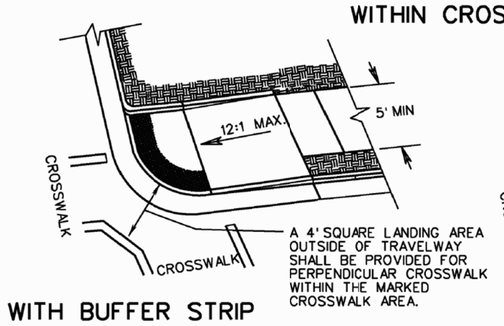
WITHOUT BUFFER STRIP



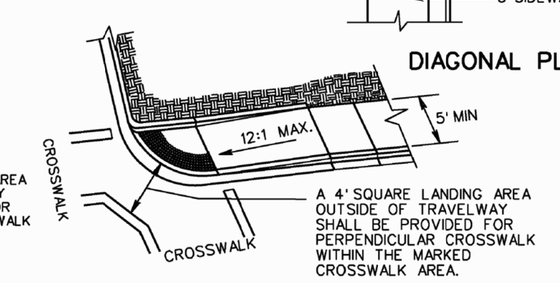
TYPICAL PLACEMENT AT INTERSECTION WITHIN CROSSWALK



DIAGONAL PLACEMENT



WITH BUFFER STRIP



VDOT
ROAD AND BRIDGE STANDARDS

SHEET 3 OF 5 | REVISION DATE 7/11
203.07

CG-12 DETECTABLE WARNING SURFACE

TYPE B (PARALLEL) APPLICATION

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE
105
502

OFFICE OF THE
CITY ENGINEER
215 CHURCH AVENUE, S.W.
ROOM 350
PHONE: (540) 853-2731
FAX: (540) 853-1364
WWW.ROANOKEVA.GOV
ROANOKE

DESIGNED: PMC
DRAWN: PMC
CHECKED: PMC

SEALS:

REV.	DATE:	DESCRIPTION

DATE: 06/04/2015
SCALE: NO SCALE
24"x36" SHEET

MELROSE AVENUE CURB RAMP IMPROVEMENT PROJECT

CITY OF ROANOKE, VIRGINIA

DETAILS

SHEET 7 OF 7
PLAN NO. XXXX

1) PROJECT CATEGORY (MINIMUM TMP REQUIREMENTS)

A) THIS WILL BE A TYPE A PROJECT. CATEGORY 1.

B) THE LENGTH OF THE WORK ZONE WILL BE 3350 FEET.
THE WIDTH OF THE WORK AREA WILL VARY.

C) THE TRAFFIC IN THIS AREA CONSISTS PRIMARILY OF LOCAL TRAFFIC, SCHOOL TRAFFIC, AND THROUGH TRAFFIC.

D) LANES IN BOTH DIRECTIONS WILL BE AFFECTED BY THE PROJECT.

2) TEMPORARY TRAFFIC CONTROL (TTC) PLAN: (COMPONENT 1)

A) MAJOR COMPONENTS WILL CONSIST OF GENERAL NOTES AND SPECIAL DETAILS

B) SPECIFIC TRAFFIC CONTROL FIGURES AND NOTES FROM THE 2011 W.A.P.M REVISION 1 – APRIL 2015

TTC–16.1 PAGE 6H–38, 6H–39
TTC–23.1 PAGE GH–52, 6H–53
TTC–28.1 PAGES 6H–62, 6H–63
TTC–53.0 PAGE 6H–112, 6H–113

3) PUBLIC COMMUNICATION STRATEGIES: (COMPONENT 2)

PROJECT DESCRIPTION: CONSTRUCTION OF CURB RAMPS FOR ADA ACCESSIBILITY

TRAFFIC IMPACTS: TEMPORARY LANE CLOSURES WITH FLAGGING OPERATIONS

GOALS:

TO INFORM THE PUBLIC OF THE PROJECT.
TO MINIMIZE DISRUPTION THROUGH PROACTIVE INFORMATION DISSEMINATION EFFORTS.
TO GATHER PUBLIC SUPPORT FOR THE PROJECT.
TO ESTABLISH A CRISIS COMMUNICATIONS PLAN.

MESSAGES:

BENEFITS AND PURPOSE OF THE PROJECT
TRAFFIC IMPACTS AND INFORMATION ON ALTERNATE ROUTES
CONTACTS FOR MORE INFORMATION

CRISIS COMMUNICATIONS PLAN

AS WITH ANY CRISIS, EMERGENCY RESPONDERS (911) SHOULD BE NOTIFIED IMMEDIATELY IF NECESSARY.
MS. PRISCILLA CYGIELNIK OR HER DESIGNEE SHOULD BE NOTIFIED IMMEDIATELY 540 853–2035.
IF THE EMERGENCY IS TRAFFIC RELATED, THE CITY OF ROANOKE TRANSPORTATION DIVISION SHOULD BE NOTIFIED AT 540 853–2676

4) TRANSPORTATION OPERATIONS PLAN

A) THIS PLAN IS NOT REQUIRED ON THIS PROJECT.

TARGET AUDIENCE	CONTACT METHOD	PHONE NUMBER EMAIL OR ADDRESS	RESPONSIBLE CHARGE
MOTORISTS	NEWS RELEASE	CITY COMMUNICATIONS OFFICE (540) 853–2333	CITY ENGINEER
POLICE, EMS	PHONE	ROANOKE POLICE DEPT. (540) 853–2211 ROANOKE FIRE EMS DEPT. (540) 853–2327 EMERGENCY MANAGEMENT (540) 853–2426 FIRE MARSHALL'S OFFICE (540) 853–2795	CITY ENGINEER
CITY OFFICIALS			CITY ENGINEER
BUSINESSES	NEWS RELEASE	CITY COMMUNICATIONS OFFICE (540) 853–2333	CITY ENGINEER
SCHOOLS	PHONE	ROANOKE CITY PUBLIC SCHOOLS (540) 853–2905	CITY ENGINEER

ROANOKE
OFFICE OF THE
CITY ENGINEER
215 CHURCH AVENUE, S.W.
ROOM 350
PHONE: (540) 853-2731
FAX: (540) 853-1364
WWW.ROANOKEVA.GOV

DESIGNED: PMC
DRAWN: PMC
CHECKED: PMC

REV.	DATE:	DESCRIPTION

DATE: JUNE 2015
SCALE: AS SHOWN 24"x36" SHEET

TRANSPORTATION MANAGEMENT PLAN
MELROSE AVENUE ADA IMPROVEMENTS
CITY OF ROANOKE, VIRGINIA

SHEET 1 OF 1
PLAN NO. T1