INDEX OF SHEETS
SEE SHEET 2

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
PLANS OF PROPOSED HIGHWAY

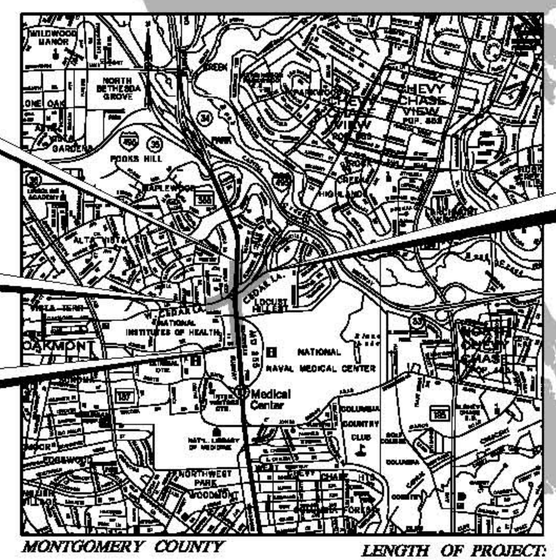
S.H.A. CONTRACT NO. MO5935270
FEDERAL AID PROJECT NO.
MD 355 AND CEDAR LANE – BRAC INTERSECTION
ROADWAY WIDENING & RECONSTRUCTION

LIMIT OF WORK
MO5935270
MD 355
STA. 355+00

LIMIT OF WORK
MO5935270
CEDAR LANE
STA. 26+00

LIMIT OF WORK
MO5935270
MD 355
STA. 331+50

LIMIT OF WORK
MO5935270
CEDAR LANE
STA. 46+16



MONTGOMERY COUNTY

LENGTH OF PROJECT:
MD RTE. 355 = 0.45 miles
CEDAR LANE = 0.38 miles

HORIZONTAL DATUM	NAD 83 /91
VERTICAL DATUM	NAVD 88

SCALE: 1"=2000 '
2000 0 2000 4000 feet

Maryland Department of Transportation
State Highway Administration
Office of Highway Development
SEMI–FINAL REVIEW
DATED APRIL 15, 2010

R-O-W PLAT NUMBERS	*SURVEY BOOK NUMBERS*
	31183 31338 31283 31358

DESIGN DESIGNATION

ROADWAY	MD. 355 (ROCKVILLE PIKE)		CEDAR LANE	
CONTROLS / YEARS	2008	2011	2008	2011
AVERAGE DAILY TRAFFIC (A.D.T.)	74,425	78,075	18,400	18,850
DESIGN HOURLY VOLUME (D.H.V.)	10%	10%	11%	11%
DIRECTIONAL DISTRIBUTION	66%	55%	71%	71%
% TRUCKS – A.D.T.	5%	5%	4%	4%
% TRUCKS – D.H.V.	3%	3%	3%	3%
DESIGN SPEED M. P. H.	40 MPH		25 MPH	
FUNCTIONAL CLASSIFICATION	URBAN OTHER PRINCIPAL ARTERIAL		URBAN MINOR ATERIAL	
CONTROL OF ACCESS	NONE		NONE	
INTENSITY OF DEVELOPMENT	URBAN		URBAN	
TERRAIN	ROLLING		ROLLING	
ANTICIPATED POSTED SPEED	35 MPH		30 MPH	

REVISIONS
NOTE:
See Sheet No. 2 for List of Revised Sheet Numbers

AASHTO DESIGN CRITERIA

THIS PROJECT WAS DESIGNED IN ACCORDANCE WITH THE 2001 PUBLICATION OF AASHTO'S "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS."

STANDARD SPECIFICATIONS BOOK, BOOK OF STANDARDS AND MUTCD

ALL WORK ON THIS PROJECT SHALL CONFORM TO: THE MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATIONS SPECIFICATIONS ENTITLED STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS DATED JULY 2008 REVISIONS THEREOF OR ADDITIONS THERETO; THE SPECIAL PROVISIONS INCLUDED IN THE INVITATION FOR BIDS BOOK; THE ADMINISTRATIONS BOOK OF STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES AND THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

RIGHT OF WAY

RIGHT OF WAY AND EASEMENT LINES SHOWN ON THESE PLANS ARE FOR ASSISTANCE IN INTERPRETING THE PLANS. THEY ARE NOT OFFICIAL. FOR OFFICIAL FEE RIGHT OF WAY AND EASEMENT INFORMATION, SEE APPROPRIATE RIGHT OF WAY PLATS.

UTILITIES

THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE OF THE ACCURACY OF SAID LOCATIONS.

COMPLETENESS OF DOCUMENTS

THE STATE HIGHWAY ADMINISTRATION SHALL ONLY BE RESPONSIBLE FOR THE COMPLETENESS OF DOCUMENTS OBTAINED DIRECTLY FROM THE STATE HIGHWAY ADMINISTRATION'S CASHIER'S OFFICE. FAILURE TO ATTACH ADDENDA MAY CAUSE THE BID TO BE IRREGULAR.

ADA COMPLIANCE

THE DESIGN OF THIS PROJECT HAS INCORPORATED FACILITIES FOR THE ELDERLY AND HANDICAPPED IN COMPLIANCE WITH THE STATE AND FEDERAL LEGISLATION

ENVIRONMENTAL INFORMATION

MDE # 09-SF-0199

ALL STORMWATER MANAGEMENT FACILITIES CONSTRUCTED FOR CONTRACT NO. MO5935270 SHALL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE STATE HIGHWAY ADMINISTRATIONS BEST MANAGEMENT PRACTICES (BMP) INSPECTION AND REMEDIATION PROGRAM.

SEDIMENT AND EROSION CONTROL REGULATIONS WILL BE STRICTLY ENFORCED DURING CONSTRUCTION.

STANDARD STABILIZATION NOTE :

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN (7) CALENDER DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1), AND FOURTEEN DAYS (14) AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

OWNERS / DEVELOPERS CERTIFICATION :

I / WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY STATE OF MARYLAND, DEPARTMENT OF THE ENVIRONMENT, COMPLIANCE INSPECTORS.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 26070 Expiration Date 5/24/2011

CENTURY ENGINEERING
CONSULTING ENGINEERS – PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

REVIEWED AND APPROVAL RECOMMENDED DATE
CHIEF, HIGHWAY DESIGN DIVISION

APPROVAL RECOMMENDED DATE
DIRECTOR, OFFICE OF HIGHWAY DEVELOPMENT

APPROVED DATE
DEPUTY ADMINISTRATOR – PLANNING AND ENGINEERING
ENGINEERING, REAL ESTATE AND ENVIRONMENT

SURVEY BOOK NO.

INDEXED

DRILL HOLES
DRILL HOLES
DRILL HOLES
BY: CROSS

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DATUM: NAD 8391 Horizontal
NAVD 88 Vertical

CENTURY ENGINEERING
CONSULTING ENGINEERS – PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

BY: CROSS

CROSS REFERENCE

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REVISIONS

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

INDEX OF SHEETS

SCALE NA ADVERTISED DATE _____ CONTRACT NO. MO6935270

DESIGNED BY MCM
DRAWN BY SAC
CHECKED BY M.A.
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE _____
HORIZONTAL SCALE _____
VERTICAL SCALE _____

DRAWING NO. INDX-01 OF 01 SHEET NO. 2 OF 140

PLOTTED: Monday, April 12, 2010 AT 04:03 PM
FILE: E:\Acad\Temporaries\27267-09 BRAC-MD355 @ Cedar Lane\25x36\4.45 Contract 1\CADD\p04-001_MD355CI.dgn

ABBREVIATIONS

A.A.S.H.T.O.	American Association of State Highway Transportation Officials
ADT	Average Daily Traffic
AHD	Ahead
APPROX.	Approximate
℄ or BL	Baseline
BK	Back /Book
BIT.	Bituminous
B.C.	Bituminous Concrete
B.M.	Bench Mark
BOT.	Bottom
C.C.	Center of Curve
CATV	Cable Television
C.B.R.	California Bearing Ratio
℄ or CL	Centerline
CL.	Class
CLF	Chainlink Fence
CMP	Corrugated Metal Pipe
C.O.	Cleanout
COMB.	Combination
CONC.	Concrete
CONSTR.	Construction
COR.	Corner
CORR.	Correction
DC	Degree of Curve
D.H.V.	Design Hourly Volume
D.I.	Drop Inlet
DIA.	Diameter
D.O.	Double Opening
E	East
E	Electric
E	External Distance
EA.	Each
E.B.	Eastbound
ELEV.	Elevation
E.R.C.C.P.	Elliptical Reinforced Cement Concrete Pipe
ES	End Section
EX. or EXIST.	Existing
FT.	Feet
F or FL	Flowline
F.B.D.	Flat Bottom Ditch
F.H.	Fire Hydrant
FWD.	Forward
G	Gas
G.V.	Gas Valve
H.B.	Handbox
H.D.P.	High Density Polyethylene
HDWL	Headwall
H.E.R.C.P.	Horizontal Elliptical Reinforced Concrete Pipe
HP	High Point
IN	Inch
I.S.T.	Inlet Sediment Trap
INV.	Invert
J.B.	Junction Box
K	K Inlet
L	Length
L.F.	Linear Feet
L.L.	Liquid Limit
LP	Low Point
L.P.	Light Pole
LT.	Left
MAC.	Macadam
M.C.	Moisture Content
MAX.	Maximum
M.D.D.	Maximum Dry Content
MOD.	Modified
MIN.	Minimum
N	North
N.B.	Northbound
N.E.	Northeast
N.P.	Non-Plastic
O.C.	On Center
OHE	Overhead Electric
O.M.	Optimum Moisture
PAV'T.	Pavement
P.C.	Point of Curvature
P.C.C.	Point of Compound Curvature
P/C	Point of Crown
P/GE	Profile Grade Elevation
P.G.E.	Profile Ground Elevation
P.G.L.	Profile Grade Line
P/GL	Profile Ground Line
P/R	Point of Rotation
P.I.	Plasticity Index
P.I.	Point of Intersection
P.O.C.	Point On Curve
P.O.T.	Point On Tangent
PROP.	Proposed
P.R.C.	Point of Reverse Curve
PT.	Point
P.T.	Point of Tangency
P.V.C.	Point of Vertical Curve
PVC	Polyvinyl Chloride
PVI	Point of Vertical Intersection
PVRC	Point of Vertical Reverse Curve
PVT	Point of Vertical Tangency
R	Radius
R.F.	Rock Fragments
RT.	Right
RW or R/W	Right of Way
R.C.P.	Reinforced Cement Pipe
R.C.C.P.	Reinforced Cement Concrete Pipe
R.Q.D.	Rock Quality Designation
R.M.	Rootmat
S	South
SAN.	Sanitary Sewer
SB or S/B	Southbound
S.D.	Storm Drain
S.D.D.	Surface Drain Ditch
S/E	Super Elevation
SF	Silt Fence
S.F.	Square Feet
SHT.	Sheet
S.P.P.	Structural Plate Pipe
S.P.T.	Standard Penetration Testing
SSD	Stopping Sight Distance
SSF	Super Silt Fence
STD.	Standard
STA.	Station
SO.	Single Opening
S.Y.	Square Yards
SWM	Stormwater Management
T	Tangent
T	Telephone
T.C.	Top of Cover
T.G.	Top of Grate
T or TL	Traverse Line
T.M.	Top of Manhole
TRAV.	Traverse
TS	Temporary Swale
T.S.	Top of Slab
T.S.	Topsoil
TYP.	Typical
U.D.	Under Drain
U.G.	Underground
U.P.	Utility Pole
U.S.D.A.	United States Department of Agriculture
VCL	Vertical Clearance
V.C.L.	Vertical Curve Length
W	Water
W	West
W.B.	Westbound
WB	Wetland Buffer
W.M.	Water Meter
W.S.	Wrapped Steel
WUS	Waters of the United States
W.V.	Water Valve

CONVENTIONAL SIGNS
(SAMPLES)

PROPOSED MEDIAN BARRIER	
ELECTRICAL HAND BOX – SIGNALS	H.B.
FLOW LINE	
STATE, COUNTY OR CITY LINES	
PROPOSED TRAFFIC BARRIER	
EXISTING TRAFFIC BARRIER	
PROPOSED FENCE LINE	
EXISTING FENCE LINE	
RIGHT OF WAY LINE	
EXISTING ROADWAY	
RAILROAD	
BASE LINE OR SURVEY LINE	
FIRE HYDRANT	F.H.
HISTORIC BOUNDARY	H
WATERS OF THE U.S.	
PROPOSED PIPE / CULVERT	
EXISTING PIPE / CULVERT	
EXISTING DROP INLET	
UTILITY POLE	
WETLAND	
WETLAND BUFFER	B
WATERS OF THE U.S.	WUS
HEDGE / TREE LINE	
BUSH / TREE	
CONIFEROUS TREE	
GROUND ELEVATION	DATUM LINE 175.5
GRADE ELEVATION	DATUM LINE 210.22

SOILS LEGEND

INFORMATION TO

BE RECEIVED FROM

OMT

CENTURY ENGINEERING
CONSULTING ENGINEERS – PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

BY: maizke

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

REVISIONS

ABBREVIATIONS, CONVENTIONAL SIGNS & SOILS LEGEND

SCALE NO SCALE ADVERTISED DATE _____ CONTRACT NO. M0696270

DESIGNED BY MCM
DRAWN BY
CHECKED BY M.A.
F.A.P. NO. SEE TITLE SHEET

COUNTY MONTGOMERY
LOGMILE

DRAWING NO. AB-1 OF 1 SHEET NO. 3 OF 140

PLOTTED: Friday, April 09, 2010 AT 11:29 AM
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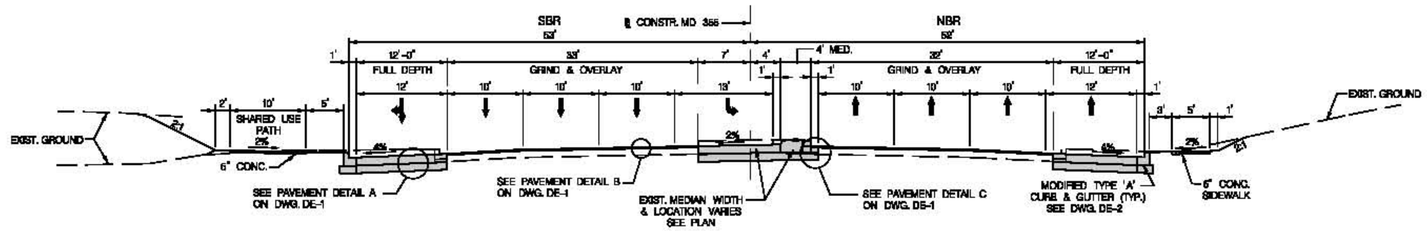
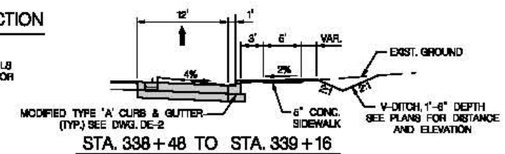


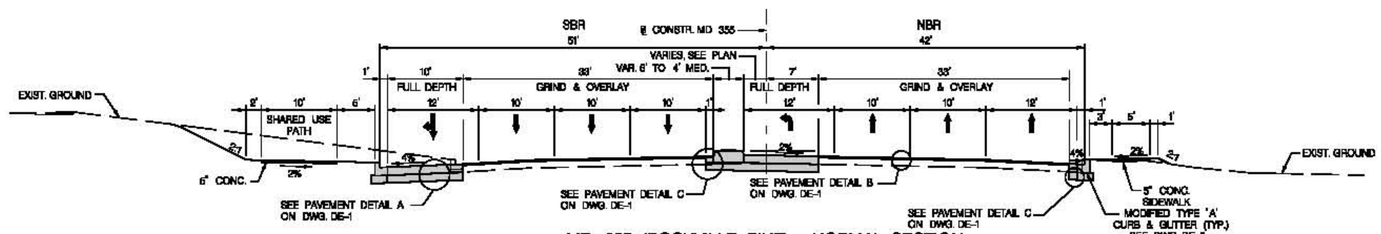
MD 355 (ROCKVILLE PIKE) – NORMAL SECTION

STA. 338+83 TO STA. 341+50

SEE LANDSCAPE DETAIL SHT. FOR DECORATIVE PCC MEDIAN DETAILS
SEE PLAN FOR MEDIAN WIDTH CHANGES, TREATMENT TYPE AND FOR FULL DEPTH PAVING AREAS FOR EX. MEDIAN REMOVAL



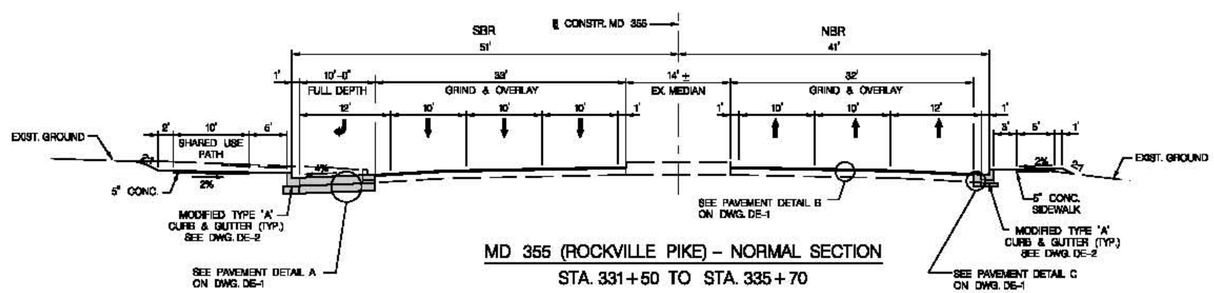
STA. 338+48 TO STA. 339+16



MD 355 (ROCKVILLE PIKE) – NORMAL SECTION

STA. 335+70 TO STA. 338+04

PROPOSED MEDIAN WIDTH VARIES
REPLACE CURB STA. 335+70 TO 338+34
SEE LANDSCAPE DETAIL SHT. FOR DECORATIVE PCC MEDIAN DETAILS
SEE PLAN FOR MEDIAN WIDTH CHANGES, TREATMENT TYPE AND FOR FULL DEPTH PAVING AREAS FOR EX. MEDIAN REMOVAL



MD 355 (ROCKVILLE PIKE) – NORMAL SECTION

STA. 331+50 TO STA. 335+70

NOTE:
ALL DISTURBED AREAS WILL BE SODDED PER TURFGRASS SOD ESTABLISHMENT ITEM UNLESS OTHERWISE NOTED.

DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

CENTURY ENGINEERING
CONSULTING ENGINEERS – PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

BY: cross

1' 0 1' 2'
SCALE: 1" = 10'

R/W PLAT NUMBER

CROSS REFERENCE

ITEM	SHEET NOs.
TYPICAL SECTIONS	4 – 7
PAVEMENT DETAILS	8 – 9
GEOMETRIC LAYOUT PLANS	10 – 14
INTERSECTION DETAIL PLANS	15 – 23
ROADWAY PLANS	24 – 57
TRAFFIC CONTROL PLANS	58 – 65
SWM - DRAINAGE PLANS	66 – 74
EROSION & SEDIMENT CONTROL	75 – 93
LANDSCAPE PLANS	94 – 102
STRUCTURE PLANS	103 – 124
TRAFFIC SIGNAL PLANS	125 – 130
SIGNING & MARKING PLANS	131 – 139

REVISIONS

MD355 TYPICAL SECTIONS

SCALE 1" = 10' ADVERTISED DATE _____ CONTRACT NO. MO5935270

DESIGNED BY MCM
DRAWN BY S.A.C.
CHECKED BY M.A.
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. TS-1 OF 4 SHEET NO. 4 OF 140

PLOTTED: Tuesday, April 06, 2010 AT 11:30 AM
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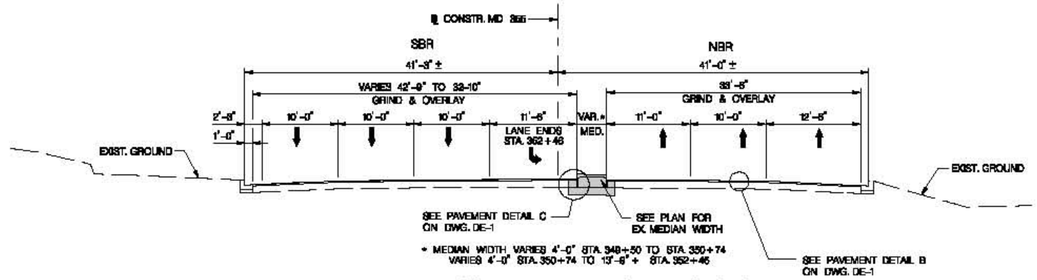
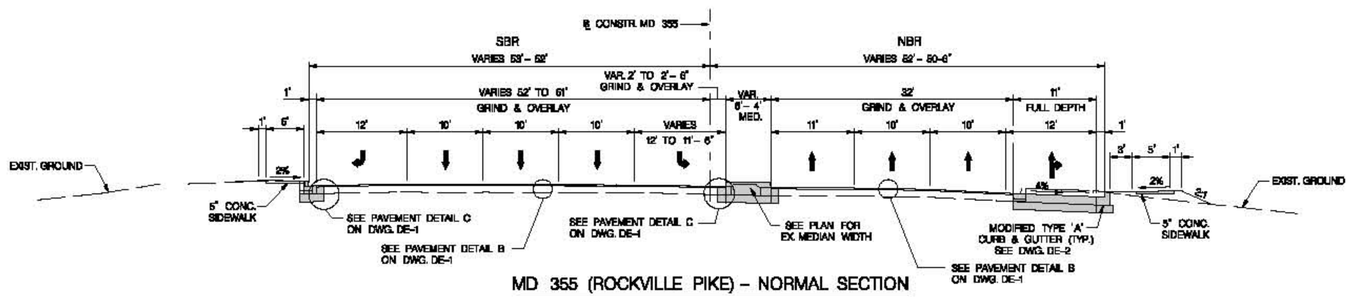


MD 355 (ROCKVILLE PIKE) – NORMAL SECTION

STA. 349+00 TO STA. 355+00

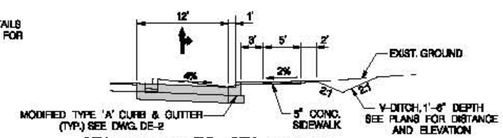
PROPOSED MEDIAN WIDTH VARIES
SEE LANDSCAPE DETAIL SHT. FOR DECORATIVE PCC MEDIAN DETAILS
SEE PLAN FOR MEDIAN WIDTH CHANGES, TREATMENT TYPE AND FOR FULL DEPTH PAVING AREAS FOR EX. MEDIAN REMOVAL



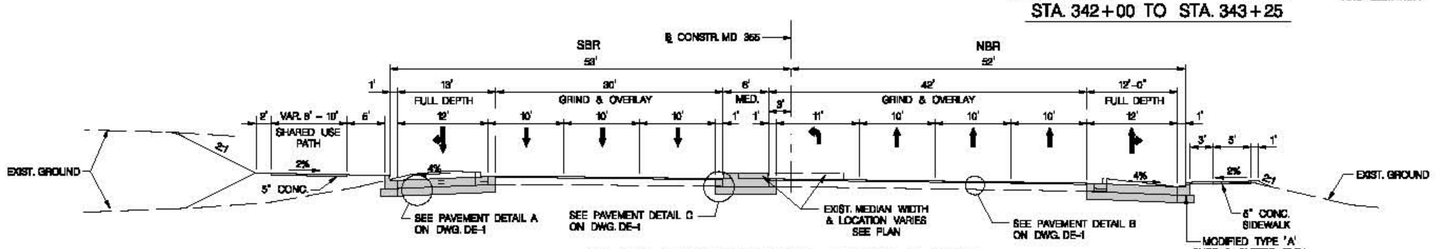
MD 355 (ROCKVILLE PIKE) – NORMAL SECTION

STA. 346+77 TO STA. 349+00

PROPOSED MEDIAN WIDTH VARIES
SEE LANDSCAPE DETAIL SHT. FOR DECORATIVE PCC MEDIAN DETAILS
SEE PLAN FOR MEDIAN WIDTH CHANGES, TREATMENT TYPE AND FOR FULL DEPTH PAVING AREAS FOR EX. MEDIAN REMOVAL



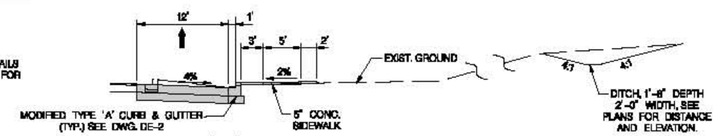
STA. 342+00 TO STA. 343+25



MD 355 (ROCKVILLE PIKE) – NORMAL SECTION

STA. 341+50 TO STA. 345+60

PROPOSED MEDIAN WIDTH VARIES
DECORATIVE PCC MED. VARIES, STA. 341+50 TO STA. 343+00
6' DECORATIVE PCC MED. STA. 343+00 TO STA. 345+50
SEE LANDSCAPE DETAIL SHT. FOR DECORATIVE PCC MEDIAN DETAILS
SEE PLAN FOR MEDIAN WIDTH CHANGES, TREATMENT TYPE AND FOR FULL DEPTH PAVING AREAS FOR EX. MEDIAN REMOVAL



STA. 339+65 TO STA. 341+42

DATUM: NAD 8391 Horizontal
NAVD 88 Vertical

NOTE:
ALL DISTURBED AREAS WILL BE SODDED PER TURFGRASS SOD ESTABLISHMENT ITEM UNLESS OTHERWISE NOTED.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

CENTURY ENGINEERING
CONSULTING ENGINEERS – PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

BY: maizke

1' 0 1' 2'
SCALE: 1" = 10'

R/W PLAT NUMBER

CROSS REFERENCE

ITEM	SHEET NOs.
TYPICAL SECTIONS	4 – 7
PAVEMENT DETAILS	8 – 9
GEOMETRIC LAYOUT PLANS	10 – 14
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LANDSCAPE PLANS	94 – 102
STRUCTURE PLANS	103 – 124
TRAFFIC SIGNAL PLANS	125 – 130
SIGNING & MARKING PLANS	131 – 139

REVISIONS

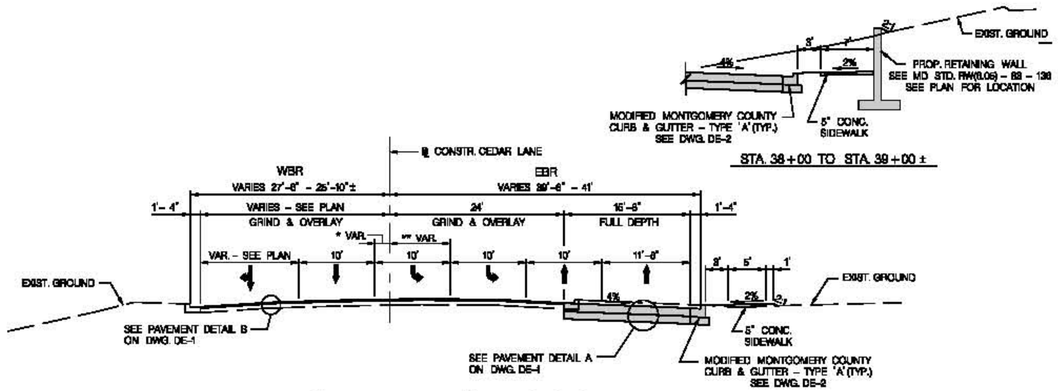
MD355 TYPICAL SECTIONS

SCALE 1" = 10' ADVERTISED DATE _____ CONTRACT NO. MO9936270

DESIGNED BY MCM
DRAWN BY S.A.C.
CHECKED BY M.A.
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. TS-2 OF 4 SHEET NO. 5 OF 140

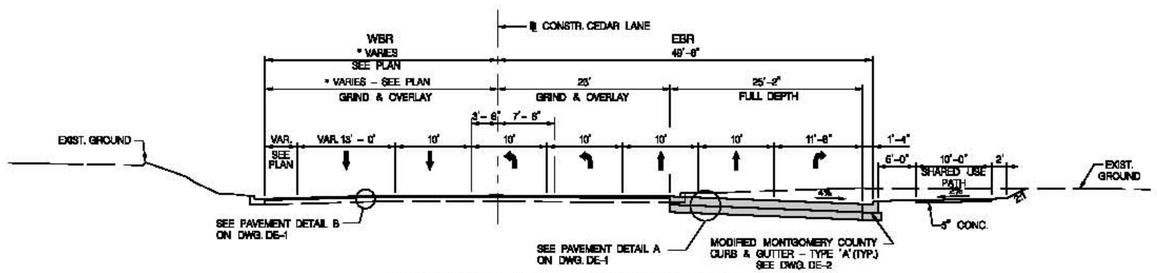
PLOTTED: Friday, April 09, 2010 AT 12:54 PM
FILE: S:\JOBS\Transportation\27267-08 BRAC-MD355 @ Cedar Lane\992764-45 Contract 1\CADD\pHT-TS02_MD355CL.dgn



CEDAR LANE – NORMAL SECTION

STA. 36+00 TO STA. 40+50

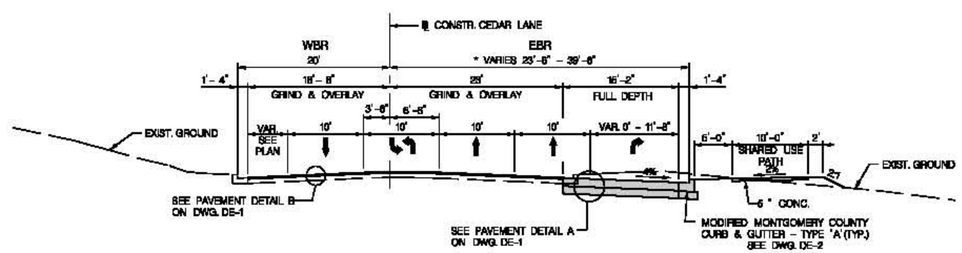
* WIDTH VARIES STA. 36+69.12, 3'– 6" TO STA. 38+05.61, 2'– 0"
** WIDTH VARIES STA. 36+69.12, 8'– 6" TO STA. 38+05.61, 6'– 0"



WEST CEDAR LANE – NORMAL SECTION

STA. 31+59 TO STA. 34+00

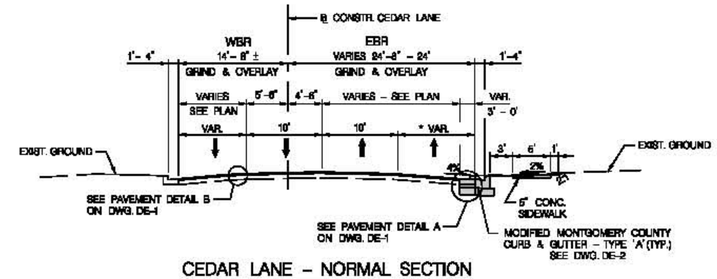
* WIDTH VARIES STA. 31+50 TO STA. 34+00



WEST CEDAR LANE – NORMAL SECTION

STA. 26+00 TO STA. 30+20

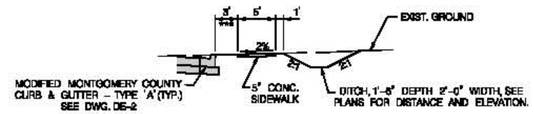
* WIDTH VARIES STA. 28+95 TO STA. 28+50
LANES SHIFT STA. 30+20 TO STA. 31+59



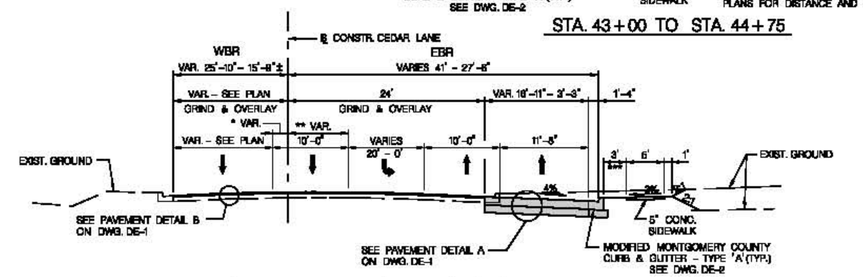
CEDAR LANE – NORMAL SECTION

STA. 44+56.22 TO STA. 46+16

* WIDTH VARIES STA. 44+56.22, 11.7' TO STA. 46+76, 8.5'



STA. 43+00 TO STA. 44+75



CEDAR LANE – NORMAL SECTION

STA. 40+50 TO STA. 44+56.22

* WIDTH VARIES STA. 40+50, 2' TO STA. 41+00, 0'
** WIDTH VARIES STA. 40+50, 8' TO STA. 41+00, 10'
*** STA. 40+50 TO STA. 41+72 OFFSET EQUALS 0

NOTE:
ALL DISTURBED AREAS WILL BE SODDED PER TURFGRASS SOD ESTABLISHMENT ITEM UNLESS OTHERWISE NOTED.

DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

1' 0 1' 2'
SCALE: 1" = 10'

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

CENTURY ENGINEERING
CONSULTING ENGINEERS – PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

BY: CROSS

R/W PLAT NUMBER	CROSS REFERENCE		REVISIONS
	ITEM	SHEET NOs.	
	TYPICAL SECTIONS	4 – 7	
	PAVEMENT DETAILS	8 – 9	
	GEOMETRIC LAYOUT PLANS	10 – 14	
	INTERSECTION DETAIL PLANS	15 – 23	
	ROADWAY PLANS	24 – 57	
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	SWM – DRAINAGE PLANS	66 – 74	
	EROSION & SEDIMENT CONTROL	75 – 93	
	LANDSCAPE PLANS	94 – 102	
	STRUCTURE PLANS	103 – 104	
	TRAFFIC SIGNAL PLANS	105 – 120	
	SIGNING & MARKING PLANS	121 – 139	

CEDAR LANE TYPICAL SECTIONS

SCALE 1" = 10' ADVERTISED DATE _____ CONTRACT NO. M0535270

DESIGNED BY MCM
DRAWN BY S.A.C.
CHECKED BY M.A.
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. TS-3 OF 4 SHEET NO. 6 OF 140

PLOTTED: Tuesday, April 06, 2010 AT 11:30 AM
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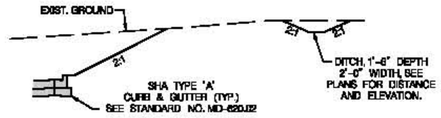
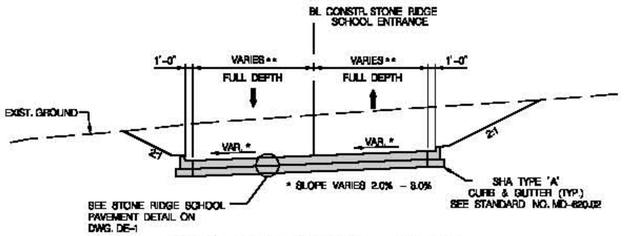


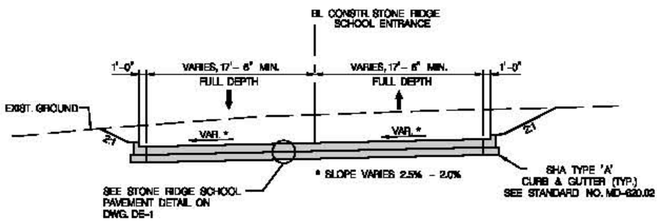
STA. 11+02 TO STA. 11+49



STONE RIDGE SCHOOL – MD 355

STA. 10+96.13 TO STA. 11+83.69

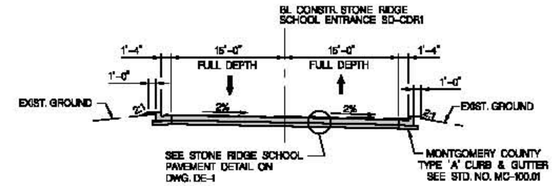
** WIDTH VARIES – 17'-6", STA. 10+96.13 TO 14'-0", STA. 11+50



STONE RIDGE SCHOOL – MD 355

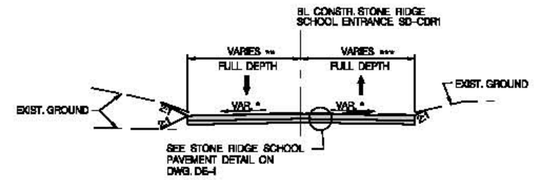
STA. 10+51 TO STA. 10+96.13

STONE RIDGE SCHOOL– STA. 341+50 MD 355



STONE RIDGE SCHOOL AT CEDAR LANE – CLOSED SECTION

STA. 11+88 TO STA. 12+55



STONE RIDGE SCHOOL AT CEDAR LANE – OPEN SECTION

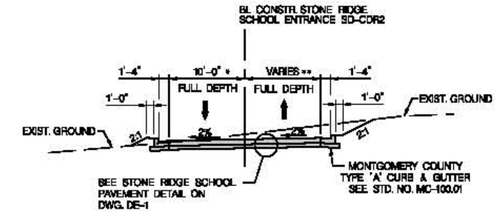
STA. 10+50 TO STA. 11+88

* SLOPE VARIES – SEE PLAN

** WIDTH VARIES – 14'-10" +, STA. 10+60.00 TO 16'-4", STA. 11+00.00

*** WIDTH VARIES – 14'-6" +, STA. 10+60.00 TO 16'-4", STA. 11+00.00

STONE RIDGE SCHOOL– STA. 42+42 CEDAR LANE



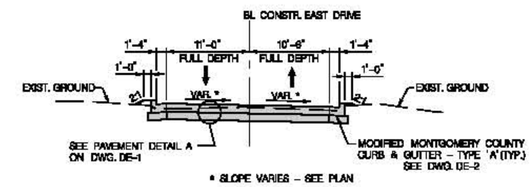
STONE RIDGE SCHOOL AT CEDAR LANE

STA. 10+50 TO STA. 10+89.00

* 10'-0" WIDTH STA. 10+60 TO STA. 10+70.57

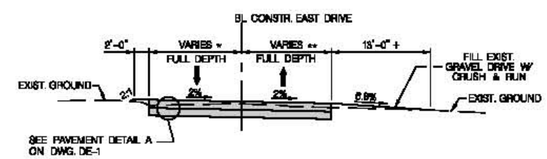
** WIDTH VARIES – 10'-0", STA. 10+50 TO 26'-8" +, STA. 10+89

STONE RIDGE SCHOOL– STA. 45+50 CEDAR LANE



EAST DRIVE ENTRANCE – CLOSED SECTION

STA. 10+36 TO STA. 10+64



EAST DRIVE ENTRANCE – OPEN SECTION

STA. 10+21 TO STA. 10+36

* WIDTH VARIES – 12'-1" +, STA. 10+21.54 TO 12'-3" –, STA. 10+36.31

** WIDTH VARIES – 12'-1" +, STA. 10+21.54 TO 11'-9" –, STA. 10+36.31

NOTE:
ALL DISTURBED AREAS WILL BE SODDED PER TURFGRASS SOD ESTABLISHMENT ITEM UNLESS OTHERWISE NOTED.

DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

CENTURY ENGINEERING
CONSULTING ENGINEERS – PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

BY: cross

1' 0 1' 2'
SCALE: 1" = 10'

R/W PLAT NUMBER

CROSS REFERENCE

ITEM	SHEET NOs.
TYPICAL SECTIONS	4 – 7
PAVEMENT DETAILS	8 – 9
GEOMETRIC LAYOUT PLANS	10 – 14
INTERSECTION DETAIL PLANS	15 – 23
ROADWAY PLANS	24 – 57
TRAFFIC CONTROL PLANS	58 – 68
SWM – DRAINAGE PLANS	69 – 74
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LANDSCAPE PLANS	94 – 102
STRUCTURE PLANS	103 – 124
TRAFFIC SIGNAL PLANS	125 – 130
SIGNING & MARKING PLANS	131 – 139

REVISIONS

PLOTTED: Tuesday, April 06, 2010 AT 11:20 AM
FILE: n:\2006\transportation\27257-06 brac-mdsb @ cedar lane\cd2006-14 contract 1\ceds\ph1-2004_md355cl.dgn

STONE RIDGE SCHOOL TYPICAL SECTIONS

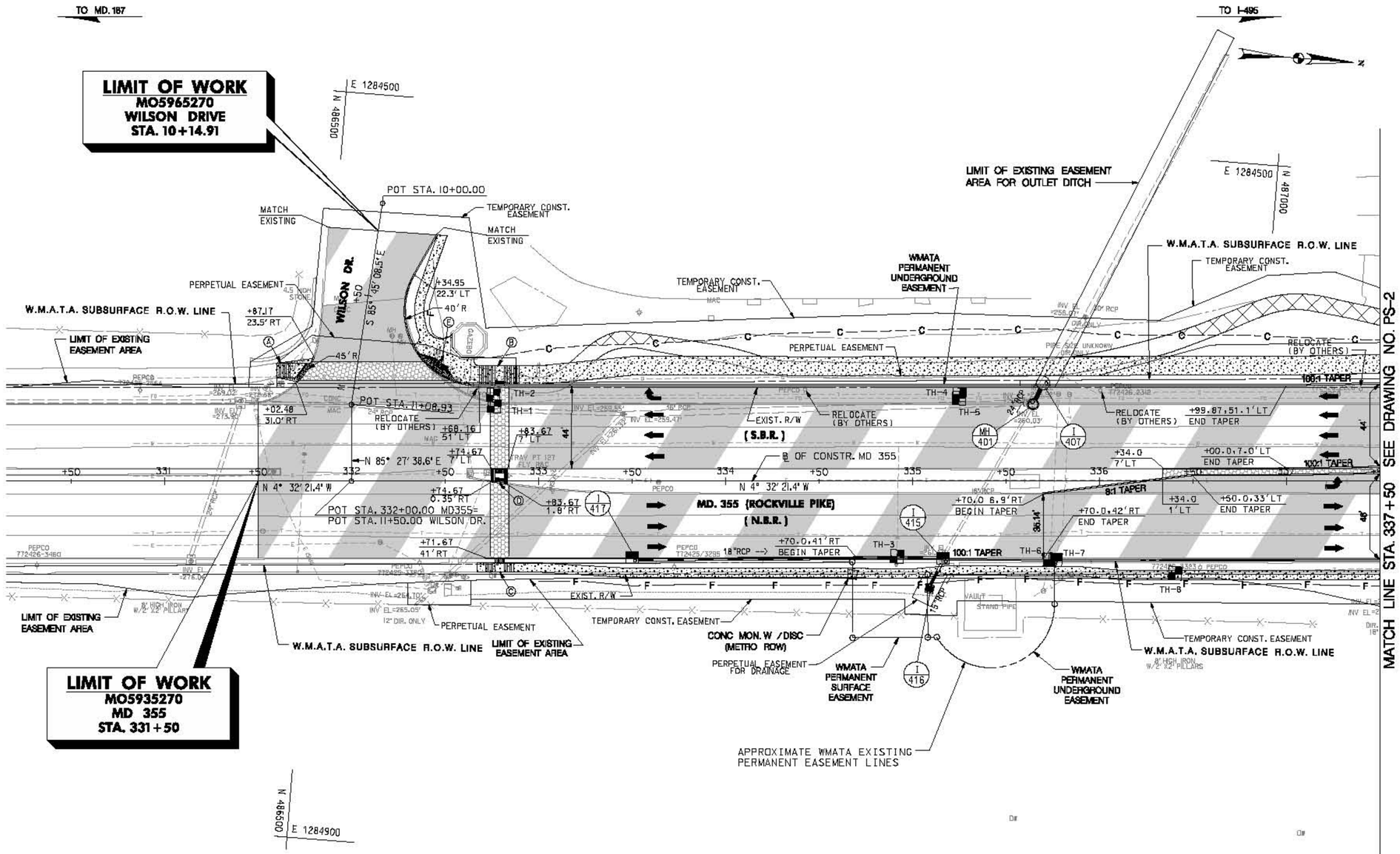
SCALE 1" = 10' ADVERTISED DATE _____ CONTRACT NO. MO5935270

DESIGNED BY MCM
DRAWN BY S.A.C.
CHECKED BY M.A.
F.A.P. NO. SEE TITLE SHEET

COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. TS-4 OF 4

SHEET NO. 7 OF 140



QUANTITY NOTES

MODIFIED MD SHA TYPE A CONCRETE COMBINATION CURB & GUTTER, 12 INCH GUTTER PAN, 13 INCH DEPTH. SEE DETAIL ON DWG. NO, DE-2	
478 LF.	MD 355 - STA. 332+72 TO STA. 337+50 RT.
19 LF.	WILSON DR. - STA. 10+87 TO STA. 11+02 RT.
590 LF.	WILSON DR. - STA. 10+12 LT. TO MD 355 STA. 337+50 LT.

MODIFIED MD SHA TYPE A CONCRETE CURB 8 INCH X 21 INCH SEE DETAIL ON DWG. NO, DE-2	
10 LF.	MD 355 - STA. 332+75 TO STA. 332+84 RT.
9 LF.	MD 355 - STA. 332+75 TO STA. 332+84 LT.
181 LF.	MD 355 - STA 335+70 RT. TO STA. 337+50 LT
116 LF.	MD 355 - STA 336+34 LT. TO STA. 337+50 LT

NONTRAFFIC BEARING DECORATIVE PORTLAND CEMENT CONCRETE MEDIANS	
37 SY.	MD 355 - STA. 336+34 TO STA. 337+50 LT.

TRAFFIC BEARING DECORATIVE CROSSWALKS	
78 SY.	WILSON - STA. 10+83 LT. & RT.
93 SY.	MD 355 - STA. 332+79 LT & RT.

5 INCH CONCRETE SIDEWALK	
2430 SF.	MD 355 - STA. 332+67 TO STA. 337+50 RT.
72 SF.	MD 355 - STA. 332+75 TO STA. 332+84 MEDIAN
157 SF.	MD 355 - STA. 331+59 TO STA. 331+76 LT.
5619 SF.	WILSON DR.- STA. 10+12 LT. TO MD 355 - STA. 337+50 LT.

DETECTABLE WARNING SURFACES	
16 SF.	MD 355 - STA. 331+75 LT.
20 SF.	MD 355 - STA. 332+45 LT.
10 SF.	MD 355 - STA. 332+79 RT.
10 SF.	MD 355 - STA. 332+79 RT., MEDIAN
10 SF.	MD 355 - STA. 332+79 LT., MEDIAN
10 SF.	MD 355 - STA. 332+79 LT.

REMOVAL OF EXISTING PAVEMENT	
3 CY.	MD 355 - STA. 333+27 TO STA. 333+82 LT.
12 CY.	MD 355 - STA. 336+36 TO STA. 337+50 LT.

GRINDING HOT MIX ASPHALT PAVEMENT - 0 INCH TO 2 INCH	
4891 SY	MD 355 - STA. 331+50 TO STA. 337+50
211 SY	WILSON DRIVE - STA. 10+14 TO STA. 10+53

DATUM: NAD 8391 Horizontal
NAVD 88 Vertical

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

CENTURY ENGINEERING
CONSULTING ENGINEERS – PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

NOTE:
ANY LOCATION WHERE THE PEDESTRIAN TRAVEL WAY CROSSES A DRIVEWAY ENTRANCE A MINIMUM 36" TRAVEL WAY WITH A MAXIMUM 2% CROSS SLOPE MUST BE MAINTAINED THROUGHOUT THE ENTIRE ENTRANCE REGARDLESS OF WHETHER THE ENTRANCE IS CONSTRUCTED OF ASPHALT OR CONCRETE.

30' 0 30' 60'
SCALE: 1" = 30'

ROADWAY LEGEND
FULL DEPTH RECONSTRUCTION
GRIND AND OVERLAY
EXISTING PAVEMENT REMOVAL
CONCRETE SIDEWALK (APRON SHARED USE PATH / BUS PAD)
FULL DEPTH PCC PATCHING
DECORATIVE PAVEMENT

R /W PLAT NUMBER

CROSS REFERENCE

ITEM	SHEET NOs.
TYPICAL SECTIONS	4 – 7
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STRUCTURE PLANS	103 – 124
TRAFFIC SIGNAL PLANS	125 – 130
SIGNING & MARKING PLANS	131 – 139

REVISIONS

ROADWAY PLAN

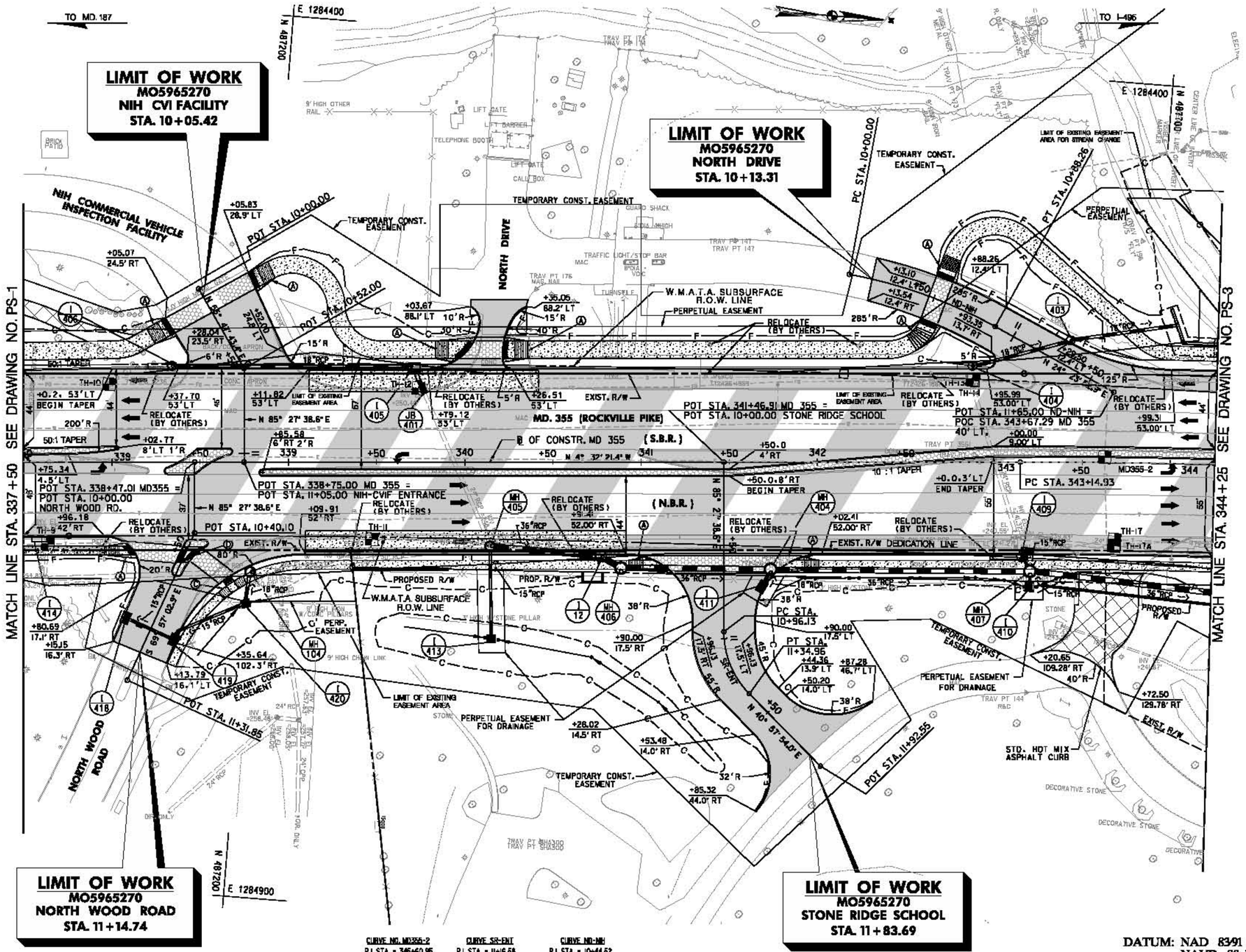
SCALE 1" = 30' ADVERTISED DATE _____ CONTRACT NO. MO5935270

DESIGNED BY MCM
DRAWN BY SAC
CHECKED BY M.A.
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. PS-1 OF 14 SHEET NO. 24 OF 140

PLOTTED: Friday, April 09, 2010 AT 01:26 PM
FILE: M:\2006\transportation\07357-06 brac-mo355 @ cedar lane\CE06045 contract 1\roadway\D-PS01_MD06SCL.dgn

BY: matzke



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

CURVE NO. MD355-2	CURVE SR-ENT	CURVE ND-NH
P.I. STA. = 345+60.95	P.I. STA. = 11+16.58	P.I. STA. = 10+44.52
Δ = 7° 22' 14.3" RT.	Δ = 44° 29' 44.63" LT.	Δ = 18° 32' 06.69" RT.
Do = 1° 30' 00.00'	Do = 114° 35' 29.61'	Do = 21° 00' 00.01'
R = 3,819.72'	R = 50.00'	R = 272.84'
T = 246.03'	T = 20.45'	T = 44.52'
L = 491.37'	L = 38.83'	L = 88.26'
E = 7.91'	E = 4.02'	E = 3.61'

30' 0 30' 60'
SCALE: 1"=30'

NOTE:
ANY LOCATION WHERE THE PEDESTRIAN TRAVEL WAY CROSSES A DRIVEWAY ENTRANCE A MINIMUM 36" TRAVEL WAY WITH A MAXIMUM 2% CROSS SLOPE MUST BE MAINTAINED THROUGHOUT THE ENTIRE ENTRANCE REGARDLESS OF WHETHER THE ENTRANCE IS CONSTRUCTED OF ASPHALT OR CONCRETE.

CENTURY ENGINEERING
CONSULTING ENGINEERS – PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

BY: CROSS

ROADWAY LEGEND

- FULL DEPTH RECONSTRUCTION
- GRIND AND OVERLAY
- EXISTING PAVEMENT REMOVAL
- CONCRETE SIDEWALK /APRON SHARED USE PATH / SRS PAD
- FULL DEPTH PCC PATCHING
- DECORATIVE PAVEMENT

R /W PLAT NUMBER

CROSS REFERENCE

ITEM	SHEET NO.
TYPICAL SECTIONS	4 – 7
PAVEMENT DETAILS	8 – 9
GEOMETRIC LAYOUT PLANS	10 – 14
INTERSECTION DETAIL PLANS	15 – 23
ROADWAY PLANS	24 – 57
TRAFFIC CONTROL PLANS	58 – 65
SWM - DRAINAGE PLANS	66 – 74
EROSION & SEDIMENT CONTROL	75 – 93
LANDSCAPE PLANS	94 – 102
STRUCTURE PLANS	103 – 104
TRAFFIC SIGNAL PLANS	105 – 120
SIGNING & MARKING PLANS	121 – 139

REVISIONS

QUANTITY NOTES

MODIFIED MD SHA TYPE A CONCRETE COMBINATION CURB & GUTTER, 12 INCH GUTTER PAN, 13 INCH DEPTH. SEE DETAIL ON DWG. NO. DE-2

120 LF.	MD 355 STA. 337+50 RT. TO NORTH WOOD RD. STA. 11+15 RT.
64 LF.	NORTH WOOD RD. - STA. 10+44 TO STA. 10+67, MEDIAN ISLAND
290 LF.	NORTH WOOD RD. STA. 11+14 LT. TO MD 355 STA. 340+51 RT.
222 LF.	MD 355 STA. 342+02 TO MD 355 STA. 344+25 RT.
88 LF.	MD 355 - STA. 338+30 TO STA. 338+63, MEDIAN
124 LF.	MD 355 STA. 337+50 LT. TO NIH CVI FACILITY STA. 10+05 RT.
189 LF.	NIH CVI FACILITY STA. 10+06 LT. TO MD 355 STA. 340+04 LT.
370 LF.	MD 355 STA. 340+35 LT. TO ND-NIH STA. 10+47 RT.
171 LF.	ND-NIH STA. 10+47 LT. TO MD 355 STA. 344+25 LT.

STANDARD MD SHA TYPE A CONCRETE COMBINATION CURB & GUTTER, 12 INCH GUTTER PAN, 8 INCH DEPTH. SEE STANDARD NO. MD 620.02

183 LF.	MD 355 STA. 340+51 RT. TO STONE RIDGE ENTRANCE STA. 11+85 RT.
160 LF.	STONE RIDGE ENTRANCE STA. 11+87 LT. TO MD 355 STA. 342+02 RT.

MODIFIED MD SHA TYPE A CONCRETE CURB 8 INCH X 21 INCH SEE DETAIL ON DWG. NO., DE-2

113 LF.	MD 355 STA. 337+50 TO STA. 338+04 LT., MEDIAN
1087 LF.	MD 355 STA. 338+83 RT. TO STA. 344+25 LT., MEDIAN

NONTRAFFIC BEARING DECORATIVE PORTLAND CEMENT CONCRETE MEDIANS

14 SY.	MD 355 STA. 337+50 TO STA. 338+04 LT., MEDIAN
27 SY.	MD 355 STA. 338+30 RT. TO STA. 338+69 LT., MEDIAN ISLAND
206 SY.	MD 355 STA. 338+83 RT. TO STA. 344+25 LT., MEDIAN
4 SY.	NORTH WOOD RD STA. 10+45 TO STA. 10+49, ISLAND
4 SY.	NORTH WOOD RD STA. 10+59 TO STA. 10+66, ISLAND

TRAFFIC BEARING DECORATIVE CROSSWALKS

29 SY.	NORTH WOOD RD. STA. 10+55 RT.
24 SY.	NORTH WOOD RD. STA. 10+51 LT.
78 SY.	SR ENT. STA. 10+58 LT. & RT.
59 SY.	NIH CVIF ENTRANCE STA. 10+10 LT. & RT.
22 SY.	MD 355 STA. 340+02 TO STA. 340+21 LT.
29 SY.	ND NIH STA. 10+52 RT. & LT.

5 INCH CONCRETE SIDEWALK

336 SF.	MD 355 - STA. 337+50 TO STA. 338+12 RT.
85 SF.	NORTH WOOD RD. - STA. 10+50 TO STA. 10+60, MEDIAN ISLAND
1569 SF.	NORTH WOOD RD. STA. 11+14 LT. TO MD 355 STA. 341+12 RT.
1238 SF.	MD 355 - STA. 341+63 TO STA. 344+25 RT.
871 SF.	MD 355 - STA. 337+50 TO STA. 338+35 LT.
1550 SF.	MD 355 - STA. 338+78 TO STA. 340+05 LT.
2513 SF.	MD 355 - STA. 340+22 TO STA. 342+68 LT.
1794 SF.	MD 355 - STA. 342+68 TO STA. 344+25 LT.

DETECTABLE WARNING SURFACES

10 SF.	MD 355 - STA. 338+11 RT.
12 SF.	NORTH WOOD RD. - STA. 10+55 RT., MEDIAN ISLAND
14 SF.	NORTH WOOD RD. - STA. 10+52 LT., MEDIAN ISLAND
10 SF.	NORTH WOOD RD. - STA. 10+56 LT.
20 SF.	MD 355 - STA. 338+33 LT.
20 SF.	MD 355 - STA. 338+80 LT.
20 SF.	MD 355 - STA. 340+01 LT.
20 SF.	MD 355 - STA. 340+22 LT.
20 SF.	ND NIH - STA. 10+52 RT.
20 SF.	ND NIH - STA. 10+52 LT.

REMOVAL OF EXISTING PAVEMENT

5 CY.	MD 355 - STA. 337+50 TO STA. 338+02 LT.
2 CY.	MD 355 - STA. 340+29 TO STA. 340+35 LT.
65 CY.	MD 355 - STA. 343+21 TO STA. 343+86 RT.

GRINDING HOT MIX ASPHALT PAVEMENT - 0 INCH TO 2 INCH

5771 SY	MD 355 - STA. 331+50 TO STA. 337+50

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

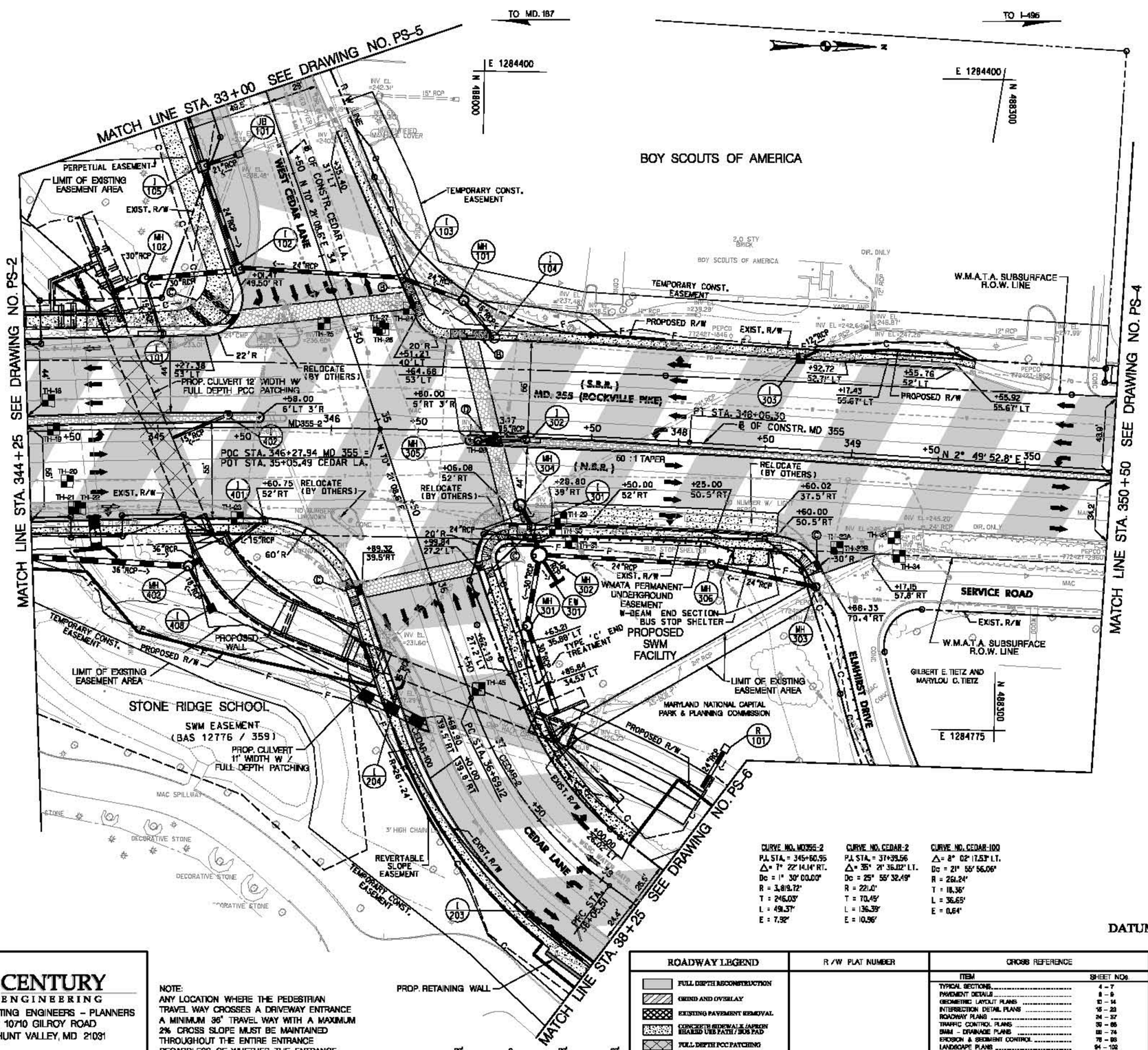
ROADWAY PLAN

SCALE 1" = 30' ADVERTISED DATE _____ CONTRACT NO. MO5965270

DESIGNED BY MCM
DRAWN BY SAC
CHECKED BY M.A.
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. PS-2 OF 14 SHEET NO. 26 OF 140

PLOTTED: Tuesday, April 13, 2010 AT 10:20 AM
FILE: G:\2006\Transportation\07267-OR BRAC-MD355 @ Cedar Lane\065954.45 Contract 1\CNDT\pHD-P002_MD355CL.dgn



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

CURVE NO. MD355-2
P.I. STA. = 345+60.95
Δ = 7° 22' 14.14" RT.
Dc = 1° 30' 00.00"
R = 3,819.72'
T = 246.03'
L = 491.37'
E = 7.92'

CURVE NO. CEDAR-2
P.I. STA. = 37+39.56
Δ = 35° 21' 36.02" LT.
Dc = 25° 55' 32.49"
R = 221.0'
T = 70.45'
L = 136.39'
E = 10.96'

CURVE NO. CEDAR-100
Δ = 8° 02' 17.53" LT.
Dc = 21° 55' 56.06"
R = 261.24'
T = 18.36'
L = 36.65'
E = 0.64'

QUANTITY NOTES

MODIFIED MD SHA TYPE A CONCRETE COMBINATION CURB & GUTTER, 12 INCH GUTTER PAN, 13 INCH DEPTH. SEE DETAIL ON DWG. DE-2

104 LF	MD 355 - STA. 344+25 TO STA. 345+27 LT.
42 LF	MD 355 - STA. 345+27 LT. TO W. CEDAR LANE, STA. 34+02 RT.
316 LF	W. CEDAR LANE STA. 34+51 LT TO MD 355 STA. 349+56 LT.
134 LF	MD 355 - STA. 344+25 TO STA. 345+61 RT.
115 LF	MD 355, - STA. 345+61 RT. TO CEDAR LANE, STA. 35+89 RT.
39 LF	MD 355, - STA. 347+06 RT. TO CEDAR LANE, STA. 36+00 LT.
154 LF	MD 355 - STA. 347+06 TO STA. 348+60 RT.
37 LF	MD 355 - STA. 348+60 TO STA. 348+88 RT.

MODIFIED MONTGOMERY CO. TYPE A CONCRETE COMBINATION CURB & GUTTER, 16 INCH GUTTER PAN, 13 INCH DEPTH. SEE DETAIL ON DWG. DE-2

101 LF	W. CEDAR LANE, STA. 33+00 TO 34+01 RT.
116 LF	W. CEDAR LANE, STA. 33+35 TO STA. 34+51 LT.
259 LF	CEDAR LANE - STA. 35+89 TO STA. 38+25 RT.
185 LF	CEDAR LANE - STA. 36+00 TO STA. 38+00 LT.

MODIFIED MD SHA TYPE A CONCRETE CURB 8 INCHX 21 INCH SEE DETAIL ON DWG. DE-2

496 LF	MD 355 - STA. 344+25 TO STA. 345+60 LT.
749 LF	MD 355 - STA. 346+77 TO STA. 350+50 RT.

NONTRAFFIC BEARING DECORATIVE PORTLAND CEMENT CONCRETE MEDIANS

69 SY	MD 355 - STA. 344+25 TO STA. 345+60 LT.
9 SY	MD 355 - STA. 346+77 TO STA. 346+88 RT.
124 SY	MD 355 - STA. 346+96 TO STA. 350+50 RT.

TRAFFIC BEARING DECORATIVE CROSSWALKS

111 SY	W. CEDAR LANE - STA. 34+32 LT. & RT.
66 SY	CEDAR LANE - STA. 35+95 LT. & RT.
114 SY	MD 355 - STA. 346+92 LT. & RT.

5 INCH CONCRETE SIDEWALK

2294 SF	MD 355 - STA. 344+25 LT. TO W. CEDAR LANE - STA. 33+00 RT.
2168 SF	W. CEDAR LANE - STA. 33+35 LT. TO MD 355 - STA. 349+67 LT.
2092 SF	MD 355 - STA. 344+25 RT. TO CEDAR LANE - STA. 38+25 RT.
2414 SF	CEDAR LANE - STA. 38+00 LT. TO MD 355 - STA. 348+88 RT.
56 SF	MD 355 - STA. 346+88 TO STA. 346+99 RT., MEDIAN RAMP
180 SF	MD 355 - STA. 348+36 TO STA. 348+56 RT., BUS SHELTER PAD

DETECTABLE WARNING SURFACES

10 SF	W. CEDAR LANE - STA. 34+19 RT.
10 SF	W. CEDAR LANE - STA. 34+41 LT.
10 SF	MD 355 - STA. 346+77 LT.
10 SF	MD 355 - STA. 346+92 RT.
10 SF	MD 355 - STA. 346+94 RT.
10 SF	MD 355 - STA. 347+07 RT.
10 SF	MD 355 - STA. 348+85 RT.
10 SF	W. CEDAR LANE - STA. 35+90 RT.
10 SF	W. CEDAR LANE - STA. 35+99 LT.

REMOVAL OF EXISTING PAVEMENT

19 CY	W. CEDAR LANE - STA. 34+20 LT. TO MD 355 - STA. 346+95 LT.

GRINDING HOT MIX ASPHALT PAVEMENT - 0 INCH TO 2 INCH

4891 SY	MD 355 - STA. 331+50 TO STA. 337+50
1089 SY	WEST CEDAR LANE- STA. 33+00 TO STA. 34+50
1788 SY	CEDAR LANE- STA. 35+50 TO STA. 38+25

13 INCH PLAIN PORTLAND CEMENT CONCRETE MIX NO. 7 (FOR BUS PAD)

186 SY	MD 355 - STA. 347+29 TO STA. 348+60 RT

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

CENTURY ENGINEERING
CONSULTING ENGINEERS – PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

NOTE:
ANY LOCATION WHERE THE PEDESTRIAN TRAVEL WAY CROSSES A DRIVEWAY ENTRANCE A MINIMUM 36" TRAVEL WAY WITH A MAXIMUM 2% CROSS SLOPE MUST BE MAINTAINED THROUGHOUT THE ENTIRE ENTRANCE REGARDLESS OF WHETHER THE ENTRANCE IS CONSTRUCTED OF ASPHALT OR CONCRETE.

SCALE: 1" = 30'

ROADWAY LEGEND

- FULL DEPTH RECONSTRUCTION
- GRIND AND OVERLAY
- EXISTING PAVEMENT REMOVAL
- CONCRETE SIDEWALK /APRON SHARED USE PATH / BUS PAD
- FULL DEPTH PCC PATCHING
- DECORATIVE PAVEMENT

R /W PLAT NUMBER

CROSS REFERENCE

ITEM	SHEET NOs.
TYPICAL SECTIONS	4 – 7
PAVEMENT DETAILS	8 – 9
GEOMETRIC LAYOUT PLANS	10 – 14
INTERSECTION DETAIL PLANS	15 – 23
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TRAFFIC CONTROL PLANS	58 – 65
SWM - DRAINAGE PLANS	66 – 74
EROSION & SEDIMENT CONTROL	75 – 93
LANDSCAPE PLANS	94 – 102
STRUCTURE PLANS	103 – 124
TRAFFIC SIGNAL PLANS	125 – 130
SIGNING & MARKING PLANS	131 – 139

REVISIONS

PLOTTED: Friday, April 09, 2010 AT 09:27 AM
FILE: n:\2007\transportation\27257-00 brac-sr355 @ cedar lane\255064.46 contract 1\cadd\pl-PS03_MD355CL.dgn

ROADWAY PLAN

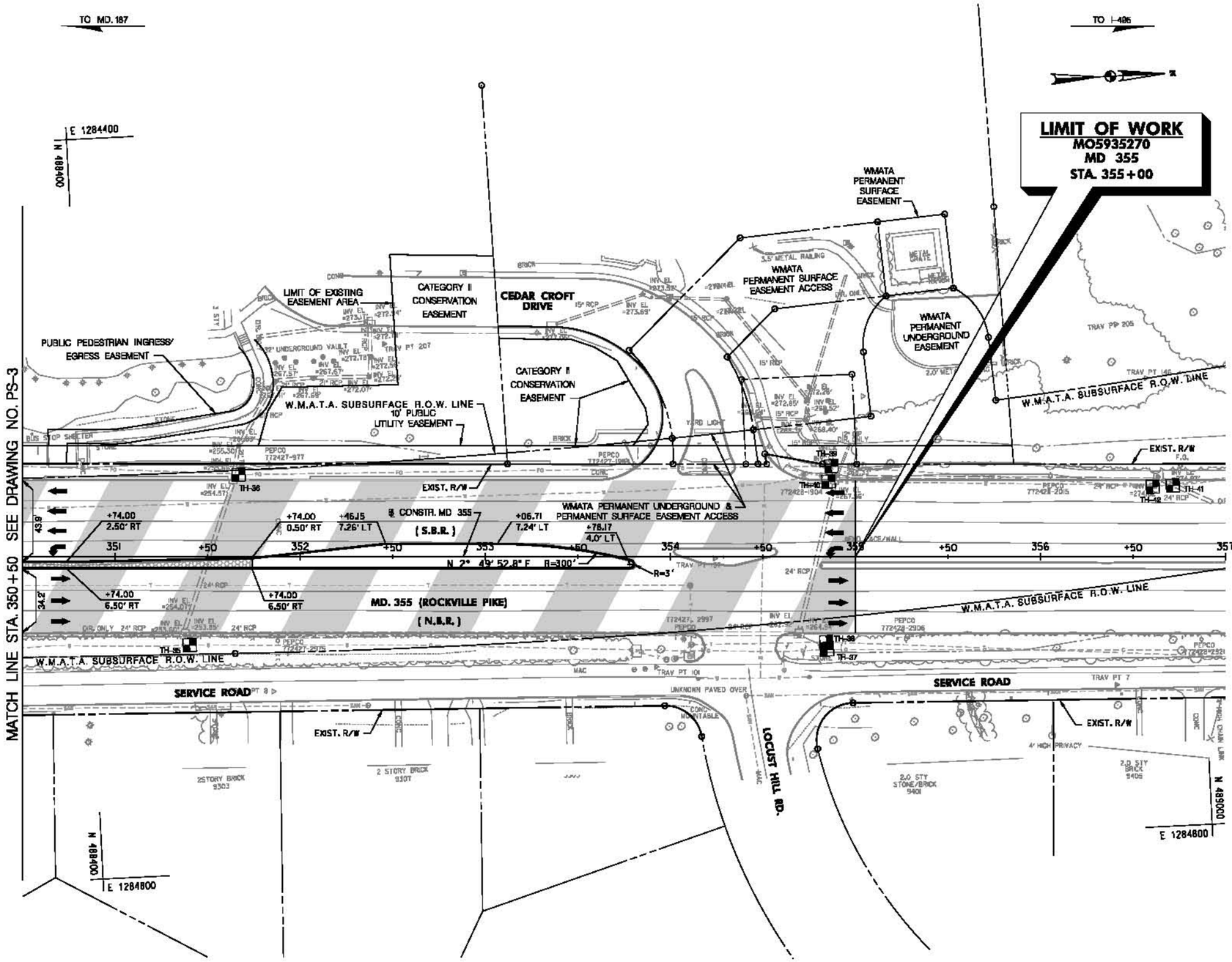
SCALE 1" = 30' ADVERTISED DATE _____ CONTRACT NO. MO6936270

DESIGNED BY MCM
DRAWN BY SAC
CHECKED BY M.A.
F.A.P. NO. SEE TITLE SHEET

COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. PS-3 OF 14 SHEET NO. 28 OF 140

BY: CROSS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

QUANTITY NOTES

MODIFIED MD SHA TYPE A CONCRETE CURB 8 INCH X 21 INCH SEE DETAIL ON DWG. NO. DE-2	
328 LF	MD 355 - STA. 350+50 TO STA. 353+78 RT.
197 LF	MD 355 - STA. 350+50 RT. TO STA. 352+46 LT.
141 LF	MD 355 - STA. 352+46 LT. TO STA. 353+78 RT.

NONTRAFFIC BEARING DECORATIVE PORTLAND CEMENT CONCRETE MEDIANS	
48 SY	MD 355 - STA. 350+50 TO STA. 351+74 RT.

GRINDING HOT MIX ASPHALT PAVEMENT - 0 INCH TO 2 INCH	
3737 SY	MD 355 - STA. 350+50 TO STA. 355+00

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

CENTURY ENGINEERING
CONSULTING ENGINEERS – PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

BY: CROSS

NOTE:
ANY LOCATION WHERE THE PEDESTRIAN TRAVELWAY CROSSES A DRIVEWAY ENTRANCE A MINIMUM 36" TRAVELWAY WITH A MAXIMUM 2% CROSS SLOPE MUST BE MAINTAINED THOURGHOUT THE ENITRE ENTRANCE REGARDLESS OF WHETHER THE ENTRANCE IS CONSTRUCTED OF ASPHALT OR CONCRETE.

ROADWAY LEGEND
- FULL DEPTH RECONSTRUCTION
- GRIND AND OVERLAY
- EXISTING PAVEMENT REMOVAL
- CONCRETE SIDEWALK (APRON SHARED USE PATH / BUS PAD)
- FULL DEPTH PCC PATCHING
- DECORATIVE PAVEMENT

R/W PLAT NUMBER

CROSS REFERENCE

ITEM	SHEET NOs.
TYPICAL SECTIONS	4 – 7
PAVEMENT DETAILS	8 – 9
GEOMETRIC LAYOUT PLANS	10 – 14
INTERSECTION DETAIL PLANS	15 – 23
ROADWAY PLANS	24 – 57
TRAFFIC CONTROL PLANS	58 – 66
SWM - DRAINAGE PLANS	68 – 74
EROSION & SEDIMENT CONTROL	75 – 83
LANDSCAPE PLANS	84 – 102
STRUCTURE PLANS	103 – 114
TRAFFIC SIGNAL PLANS	115 – 120
SIGNING & MARKING PLANS	121 – 139

REVISIONS

ROADWAY PLAN

SCALE 1" = 30' ADVERTISED DATE _____ CONTRACT NO. MO5935270

DESIGNED BY MCM
DRAWN BY SAC
CHECKED BY M.A.
F.A.P. NO. SEE TITLE SHEET

COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. PS-4 OF 14 SHEET NO. 30 OF 140

PLOTTED: Wednesday, April 07, 2010 AT 09:09 AM
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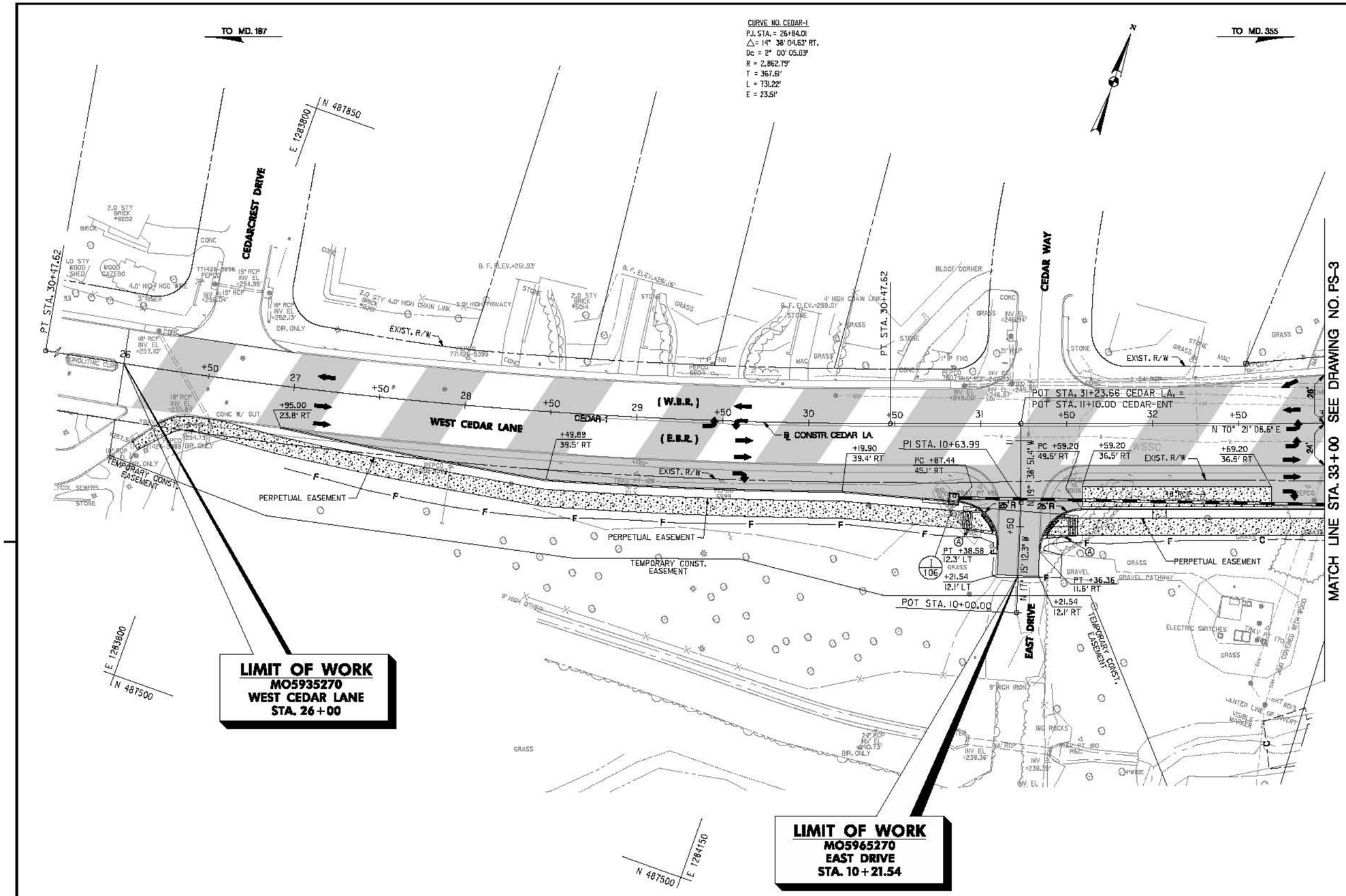

DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

QUANTITY NOTES

MODIFIED MONTGOMERY CO. TYPE A CONCRETE COMBINATION CURB & GUTTER, 16 INCH GUTTER PAN, 13 INCH DEPTH. SEE DETAIL ON DWG. DE-2	
333 LF	W. CEDAR LANE - STA. 26+95 RT. TO CEDAR-ENT STA. 10+36 LT.
263 LF	CEDAR-ENT - STA. 10+36 RT. TO CEDAR LANE - STA. 33+00

5 INCH CONCRETE SIDEWALK	
4995 SF	W. CEDAR LANE - STA. 26+12 RT. TO CEDAR-ENT - STA. 10+52 LT.
1668 SF	CEDAR-ENT - STA. 10+50 RT. TO MD 355 - STA. 33+00 RT.

DETECTABLE WARNING SURFACES	
20 SF	CEDAR-ENT - STA. 10+52 LT.
20 SF	CEDAR-ENT - STA. 10+50 RT.

GRINDING HOT MIX ASPHART PAVEMENT - 0 INCH TO 2 INCH	
3471 SY	W. CEDAR LANE - STA. 26+00 TO STA. 33+00

13 INCH PLAIN PORTLAND CEMENT CONCRETE MIX NO. 7 (FOR BUS PAD)	
143 SY	W. CEDAR LANE - STA. 31+59 TO STA. 32+69 RT.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

CENTURY ENGINEERING
CONSULTING ENGINEERS – PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

BY: matzke

NOTE:
ANY LOCATION WHERE THE PEDESTRIAN TRAVEL WAY CROSSES A DRIVEWAY ENTRANCE A MINIMUM 36" TRAVEL WAY WITH A MAXIMUM 2% CROSS SLOPE MUST BE MAINTAINED THROUGHOUT THE ENTIRE ENTRANCE REGARDLESS OF WHETHER THE ENTRANCE IS CONSTRUCTED OF ASPHALT OR CONCRETE.

30' 0 30' 60'
SCALE: 1" = 30'

ROADWAY LEGEND
FULL DEPTH RECONSTRUCTION
GRIND AND OVERLAY
EXISTING PAVEMENT REMOVAL
CONCRETE SIDEWALK (APRON SHARED USE PATH / BUS PAD)
FULL DEPTH PCC PATCHING
DECORATIVE PAVEMENT

R/W PLAT NUMBER

CROSS REFERENCE

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TYPICAL SECTIONS	4 – 7
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TRAFFIC SIGNAL PLANS	125 – 130
SIGNING & MARKING PLANS	131 – 139

REVISIONS

ROADWAY PLAN

SCALE 1" = 30' ADVERTISED DATE _____ CONTRACT NO. MO5935270

DESIGNED BY MCM
DRAWN BY SAC
CHECKED BY M.A.
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. PS-5 OF 14 SHEET NO. 32 OF 140

PLOTTED: Friday, April 09, 2010 AT 01:18 PM
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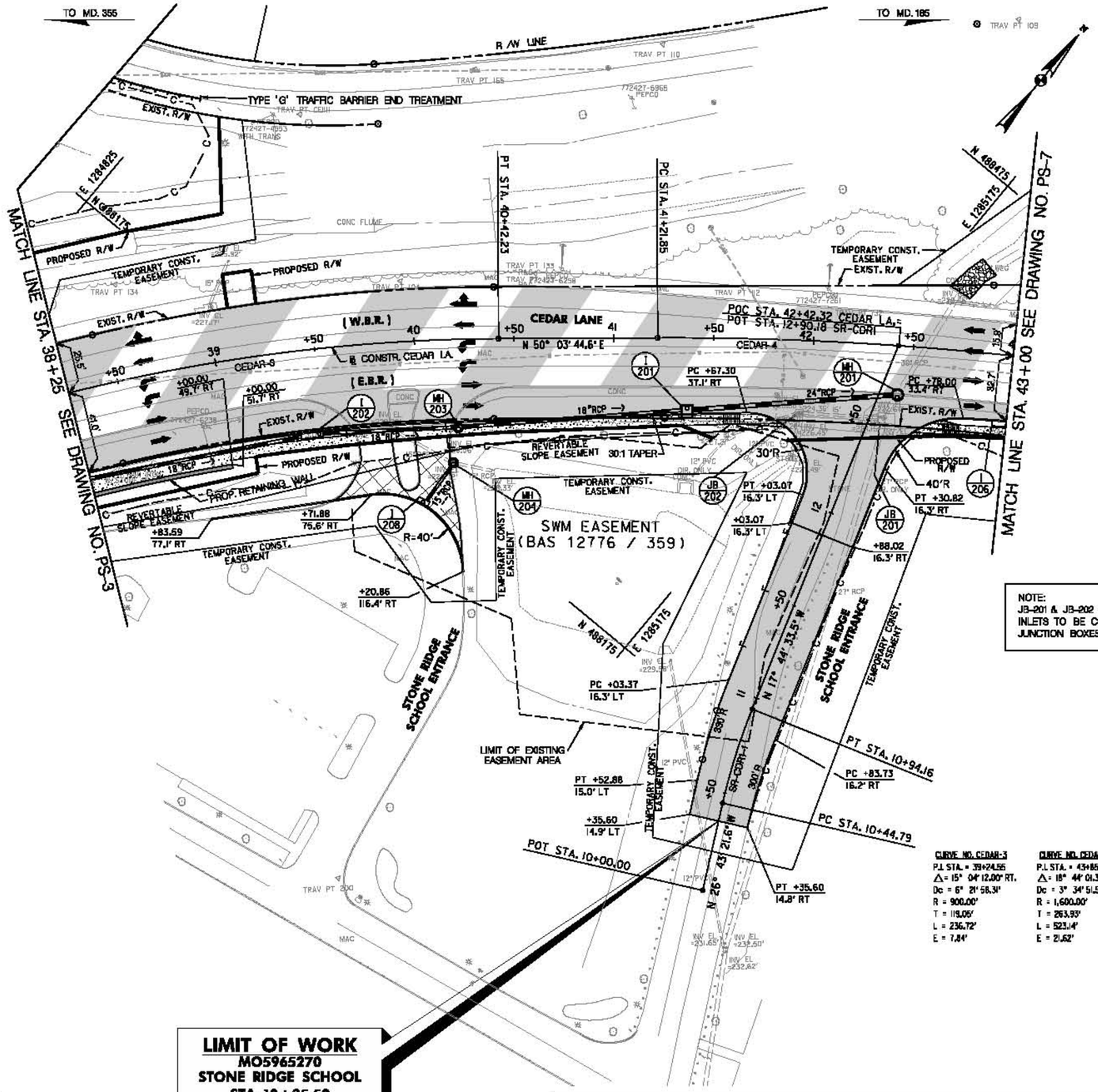


NOTE:
JB-201 & JB-202 ARE EXISTING INLETS TO BE CONVERTED TO JUNCTION BOXES.

LIMIT OF WORK
MO5965270
STONE RIDGE SCHOOL
STA. 10+35.59

CURVE NO. CEDAR-3	CURVE NO. CEDAR-4	CURVE NO. SR-CDRI-1
P.I. STA. = 39+24.55	P.I. STA. = 43+85.78	P.I. STA. = 10+69.53
Δ= 15° 04' 12.00" RT.	Δ= 18° 44' 01.35" RT.	Δ= 8° 58' 48.12" RT.
Dc = 6° 21' 56.31"	Dc = 3° 34' 51.55"	Dc = 18° 11' 20.89"
R = 900.00'	R = 1,600.00'	R = 315.00'
T = 119.05'	T = 263.93'	T = 24.74'
L = 236.72'	L = 523.14'	L = 49.37'
E = 7.84'	E = 21.52'	E = 0.97'

DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

QUANTITY NOTES

MODIFIED MONTGOMERY CO. TYPE A CONCRETE COMBINATION CURB & GUTTER, 16 INCH GUTTER PAN, 13 INCH DEPTH. SEE DETAIL ON DWG. DE-2	
331 LF	CEDAR LANE - STA. 38+25 TO STA. 41+67 RT.
22 LF	CEDAR LANE - STA. 42+78 TO STA. 43+00 RT.

MONTGOMERY CO. TYPE A CONCRETE COMBINATION CURB & GUTTER, 16 INCH GUTTER PAN, 8 INCH DEPTH. SEE STD. NO. MC-100.01	
74 LF	CEDAR LANE - STA. 41+67 RT. TO SR-CDRI - STA. 11+88 LT.
93 LF	SR-CDRI - STA. 11+88 LT. TO CEDAR LANE - STA. 42+78 RT.

5 INCH CONCRETE SIDEWALK	
405 LF	CEDAR LANE - STA. 38+25 RT. TO SR-CDRI - STA. 11+88 LT.
114 LF	SR-CDRI - STA. 11+88 LT. TO MD 355 - STA. 43+00 RT.

REMOVAL OF EXISTING PAVEMENT	
44 CY	CEDAR LANE - STA. 39+53 TO STA. 40+22 RT.

GRINDING HOT MIX ASPHALT PAVEMENT - 0 INCH TO 2 INCH	
2455 SY	CEDAR LANE - STA. 38+25 TO STA. 43+00

REMOVAL OF EXISTING CURB	
40 LF	CEDAR LANE - STA. 39+86 TO STA. 39+99 RT.

HOT MIX ASPHALT CURB SEE MD STANDARD NO. 615.01	
104 LF	CEDAR LANE - STA. 38+84 TO STA. 39+96 RT.
38 LF	CEDAR LANE - STA. 40+02 TO STA. 40+21 RT.

TRAFFIC BARRIER W BEAM USING 8 FOOT POST	
4 LF	CEDAR LANE - STA. 38+76 TO STA. 38+80 LT.

TYPE G TRAFFIC BARRIER END TREATMENT	
1 EA	CEDAR LANE - STA. 38+80 TO STA. 39+12 LT.

CLASS I RIPRAP	
25 SY	CEDAR LANE - STA. 42+72, 30' LT.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

CENTURY ENGINEERING
CONSULTING ENGINEERS – PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

NOTE:
ANY LOCATION WHERE THE PEDESTRIAN TRAVEL WAY CROSSES A DRIVEWAY ENTRANCE A MINIMUM 36" TRAVEL WAY WITH A MAXIMUM 2% CROSS SLOPE MUST BE MAINTAINED THROUGHOUT THE ENTIRE ENTRANCE REGARDLESS OF WHETHER THE ENTRANCE IS CONSTRUCTED OF ASPHALT OR CONCRETE.

30' 0 30' 60'
SCALE: 1"=30'

ROADWAY LEGEND
FULL DEPTH RECONSTRUCTION
GRIND AND OVERLAY
EXISTING PAVEMENT REMOVAL
CONCRETE SIDEWALK /APRON SHARED USE PATH / BUS PAD
FULL DEPTH PCC PATCHING
DECORATIVE PAVEMENT

R /W PLAT NUMBER

GROSS REFERENCE

ITEM	SHEET NO.
TYPICAL SECTIONS	4 – 7
PAVEMENT DETAILS	8 – 9
GEOMETRIC LAYOUT PLANS	10 – 14
INTERSECTION DETAIL PLANS	15 – 23
ROADWAY PLANS	24 – 57
TRAFFIC CONTROL PLANS	59 – 65
SWM - DRAINAGE PLANS	66 – 74
EROSION & SEDIMENT CONTROL	76 – 93
LANDSCAPE PLANS	94 – 102
STRUCTURE PLANS	103 – 124
TRAFFIC SIGNAL PLANS	125 – 130
SIGNING & MARKING PLANS	131 – 139

REVISIONS

PLOTTED: Tuesday, April 13, 2010 AT 10:48 AM
FILE: G:\2009\Transportation\07267-08 BRAC-MD355 @ Cedar Lane\066964-65 Contract 1\CADD\pr-ID-PP05_MD355CL.dgn

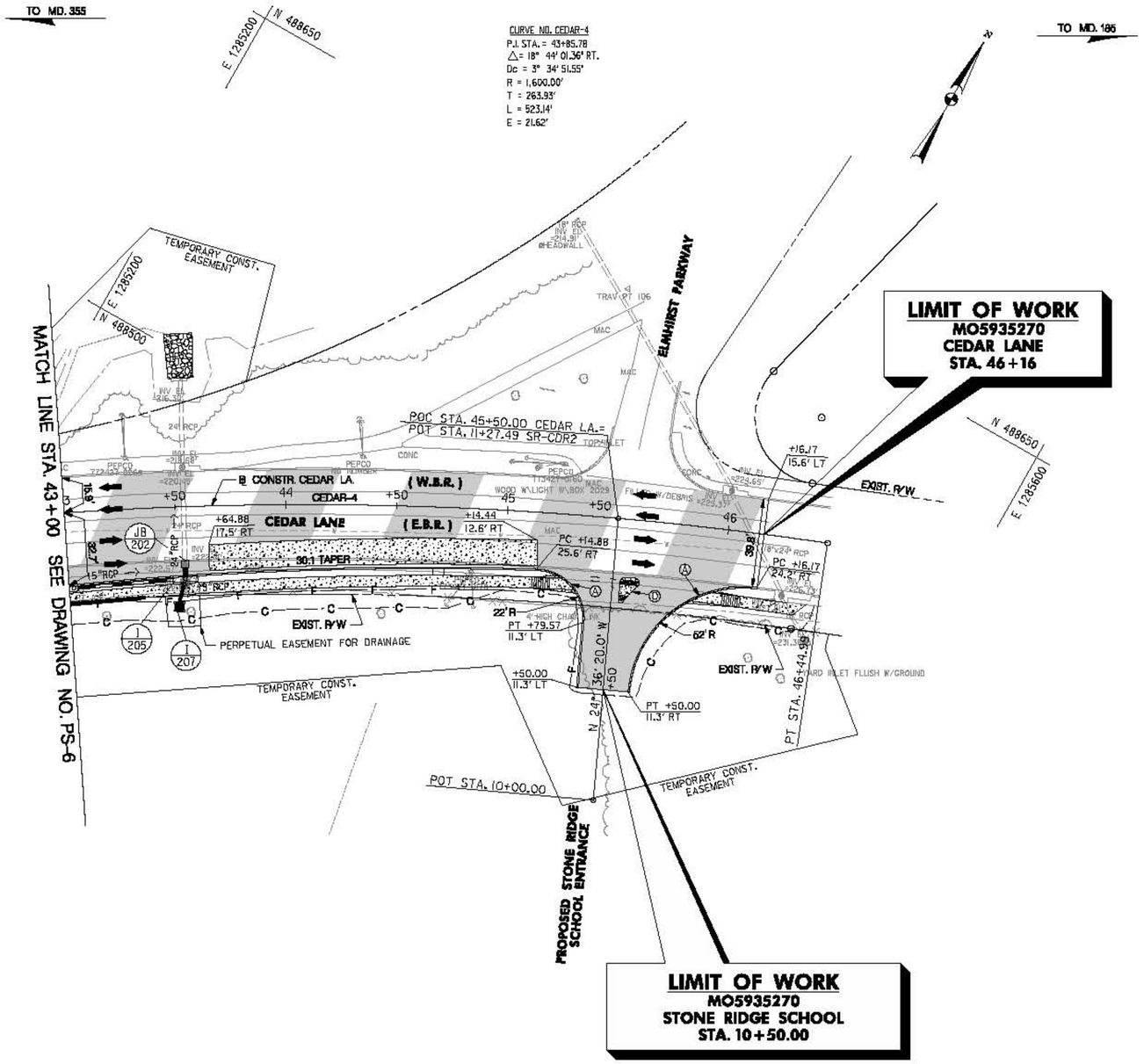
BY: CROSS

ROADWAY PLAN

SCALE 1" = 30' ADVERTISED DATE _____ CONTRACT NO. MO5965270

DESIGNED BY MCM
DRAWN BY SAC
CHECKED BY M.A.
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. PS-6 OF 14 SHEET NO. 34 OF 140



QUANTITY NOTES

MODIFIED MONTGOMERY CO. TYPE A CONCRETE COMBINATION CURB & GUTTER, 16 INCH GUTTER PAN, 13 INCH DEPTH. SEE DETAIL ON DWG. DE-1	
211 LF	CEDAR LANE - STA. 43+00 TO STA. 45+15 RT.

MONTGOMERY CO. TYPE A CONCRETE COMBINATION CURB & GUTTER, 16 INCH GUTTER PAN, 8 INCH DEPTH. SEE STD. NO. MC-100.01	
65 LF	CEDAR LANE - STA. 45+15 RT. TO SR-CDR2 - STA. 10+50 LT.
83 LF	SR-CDR2 - STA. 10+50 RT TO CEDAR LANE - STA. 46+16 RT.
34 LF	SR-CDR2 - STA. 10+90 TO STA. 11+01 RT., ISLAND

5 INCH SIDEWALK	
1158 SF	CEDAR LANE - STA. 43+00 TO STA. 45+30 RT.
65 SF	CEDAR LANE - STA. 45+53 TO STA. 45+62 RT., ISLAND
246 SF	CEDAR LANE - STA. 45+90 TO STA. 46+40 RT.

GRINDING HOT MIX ASPHALT PAVEMENT - 0 INCH TO 2 INCH	
1248 SY	CEDAR LANE - STA. 43+00 TO STA. 46+16

13 INCH PLAIN PORTLAND CEMENT CONCRETE MIX NO. 7 (FOR BUS PAD)	
194 SY	CEDAR LANE - STA. 43+65 TO STA. 45+14 RT.

CLASS I RIPRAP	
30 SY	CEDAR LANE - STA. 43+50, 57' LT.

DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

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ROADWAY LEGEND
FULL DEPTH RECONSTRUCTION
GRIND AND OVERLAY
EXISTING PAVEMENT REMOVAL
CONCRETE SIDEWALK (APRON REQUIRED WITH PATH / BUS PAD)
FULL DEPTH PCC PATCHING
DECORATIVE PAVEMENT

R/W PLAT NUMBER

CROSS REFERENCE	
ITEM	SHEET NOs.
TYPICAL SECTIONS	4 – 7
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STRUCTURE PLANS	103 – 124
TRAFFIC SIGNAL PLANS	125 – 130
SIGNING & MARKING PLANS	131 – 138

REVISIONS

ROADWAY PLAN

SCALE 1" = 30' ADVERTISED DATE _____ CONTRACT NO. MO5935270

DESIGNED BY MCM
DRAWN BY SAC
CHECKED BY M.A.
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. PS-7 OF 14 SHEET NO. 36 OF 140

PLOTTED: Friday, April 09, 2010 AT 01:39 PM
FILE: S:\2008\Transportation\07267-08 BRAC-MD355 @ Cedar Lane\05935-45 Contract F\CADD\pr10-PS07_MD355CL.dgn

BY: malzka

MAINTAINENCE OF TRAFFIC - GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE GENERAL NOTES AND STANDARDS PROVIDED IN CATEGORY "I" OF THE MDSHA BOOK OF STANDARDS, THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MD MUTCD) AND SUBSEQUENT REVISIONS ADOPTED BY THE STATE OF MARYLAND, AND THESE PLANS.

2. EXCAVATIONS SHALL BE BACKFILLED WITH GRADED AGGREGATE BASE PRIOR TO THE END OF THE WORK DAY IN CONFORMANCE WITH STD NO. MD 104.01-28.

3. NO WORK IS TO BEGIN UNTIL ALL ADVANCE WARNING SIGNS, DRUMS AND PAVEMENT MARKINGS ARE IN PLACE AND OPERATIONAL.

4. WHERE TEMPORARY PAVEMENT MARKINGS ARE REQUIRED, EXISTING PAVEMENT MARKINGS SHALL BE REMOVED BY GRINDING.

5. PERMANENT MARKINGS DAMAGED SHALL BE REPAIRED AT THE DISCRETION OF THE ENGINEER.

6. PORTABLE VARIABLE MESSAGE SIGNS AND/OR ARROW PANELS SHALL BE USED AS DIRECTED BY THE CONSTRUCTION PROJECT ENGINEER.

7. WHERE TWO ENTRANCES EXIST FOR ONE PROPERTY, CONSTRUCTION SHALL BE SEQUENCED SO THAT ONLY ONE ENTRANCE WILL BE DISTURBED AT ANY GIVEN TIME. WHEN ONLY ONE ENTRANCE EXISTS FOR A PROPERTY, WHEN NECESSARY, THE CONTRACTOR SHALL PROVIDE FLAGGERS TO CONTROL ENTRANCE CONSTRUCTION.

8. EXISTING SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC PATTERNS SHALL BE REMOVED OR COVERED. PERMANENT SIGNS THAT ARE REMOVED (OR COVERED) DURING CONSTRUCTION SHALL BE REINSTALLED PRIOR TO RETURNING THE ROAD TO PRE-CONSTRUCTION TRAFFIC PATTERNS.

9. SIGNS USED FOR TEMPORARY TRAFFIC CONTROL THAT ARE NOT APPLICABLE FOR A PARTICULAR CONSTRUCTION PHASE SHALL BE REMOVED OR COMPLETELY COVERED WITH A NON-TRANSPARENT MATERIAL.

MAINTAINENCE OF TRAFFIC - GENERAL NOTES (CONTINUED)

10. WHERE MOT SETUPS ARE PERMITTED DURING PEAK HOURS, THE MOT SETUPS ARE TO REMAIN INSTALLED FOR THE DURATION OF THE CONSTRUCTION PHASE, IRREGARDLESS OF THE TIME OF DAY. WHERE WORK IS TO BE COMPLETED DURING OFF-PEAK HOURS, WORK HOURS SHALL BE AS NOTED IN SPECIAL PROVISIONS BOOK (IFB).

11. SIGNS AND OTHER DEVICES MOUNTED LOWER THAN 7' ABOVE THE TEMPORARY PEDESTRIAN PATHWAY SHALL NOT PROJECT MORE THAN 4" INTO THE ACCESSIBLE PEDESTRIAN ROUTE.

12. TRAFFIC CONTROL DEVICES AND OTHER CONSTRUCTION MATERIALS SHALL NOT INTRUDE INTO THE USABLE WIDTH OF THE SIDEWALK, TEMPORARY PATHWAY, OR OTHER PEDESTRIAN FACILITY.

13. WHERE A SIDEWALK IS CLOSED DURING CONSTRUCTION, THE CONTRACTOR SHALL INSTALL A BARRIER ACROSS THE FULL WIDTH OF THE SIDEWALK APPROACHING THE CLOSURE. THIS BARRIER SHOULD BE DETECTABLE BY A VISUALLY IMPAIRED INDIVIDUAL TRAVELING WITH THE AID OF A CANE.

14. FOR OFF-PEAK HOUR WORK ZONES, TYPICAL APPLICATIONS FROM CATEGORY I OF THE MDSHA BOOK OF STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES IN ADDITION TO THOSE CITED ON THESE PLANS MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.

15. WHERE SIDEWALK INTERSECTS TEMPORARY CONSTRUCTION ACCESS, THE CONTRACTOR SHALL PROVIDE ADA COMPLIANT PEDESTRIAN CROSSING THROUGH THE TEMPORARY CONSTRUCTION ACCESS.

16. ADVANCED WARNING SIGNS SHALL BE INSTALLED AT A MINIMUM SPACING OF 200 FEET TO AN EXISTING SIGN, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

17. TYPICAL APPLICATIONS TO BE USED FOR OFF-PEAK HOUR WORK MAY BE MODIFIED AS REQUIRED BASED ON FIELD CONDITIONS, AS DIRECTED BY THE ENGINEER.

SEQUENCE OF CONSTRUCTION - PHASE 1A (NON-PEAK HOUR ONLY)

1. REMOVE EXISTING CONCRETE MEDIAN AND INSTALL TEMPORARY AND ULTIMATE PAVEMENT BETWEEN STA. 338+80 AND STA. 354+00 ON MD 355 AS SHOWN ON THE PLANS UNDER A LEFT LANE CLOSURE ALONG BOTH DIRECTIONS OF MD 355, AS PER STD. MD 104.04-04.

2. REMOVE EXISTING CONCRETE MEDIAN BETWEEN STA. 335+70 AND STA. 338+20 AND INSTALL MEDIAN AND THE PROPOSED CHANNELIZING ISLAND ON MD 355 AS SHOWN ON THE PLANS UNDER A LEFT LANE CLOSURE PER STD. MD 104.04-04.

3. CONSTRUCT SOUTHBOUND MD 355 WIDENING, PROPOSED DRAINAGE, PROPOSED SIDEWALK AND TEMPORARY PATHWAY UNDER A RIGHT LANE CLOSURE ALONG SB MD 355, AS PER STD. MD 104.04-06. CONSTRUCT TEMPORARY PAVEMENT WITHOUT THE PROPOSED SIDEWALK/CURB BETWEEN STA. 343+60 AND STA. 345+30 AS SHOWN ON THE PLAN.

4. TEMPORARILY SHIFT TRAFFIC TO THE NORTH SIDE OF W. CEDAR LANE WITH CONES TO SEPARATE THE EASTBOUND AND WESTBOUND TRAFFIC. CONSTRUCT THE WEST CEDAR LANE WIDENING AND PROPOSED SIDEWALK AND CURB UNDER A RIGHT LANE CLOSURE ALONG EB W.CEDAR LANE AS PER STD. MD 104.03-06.

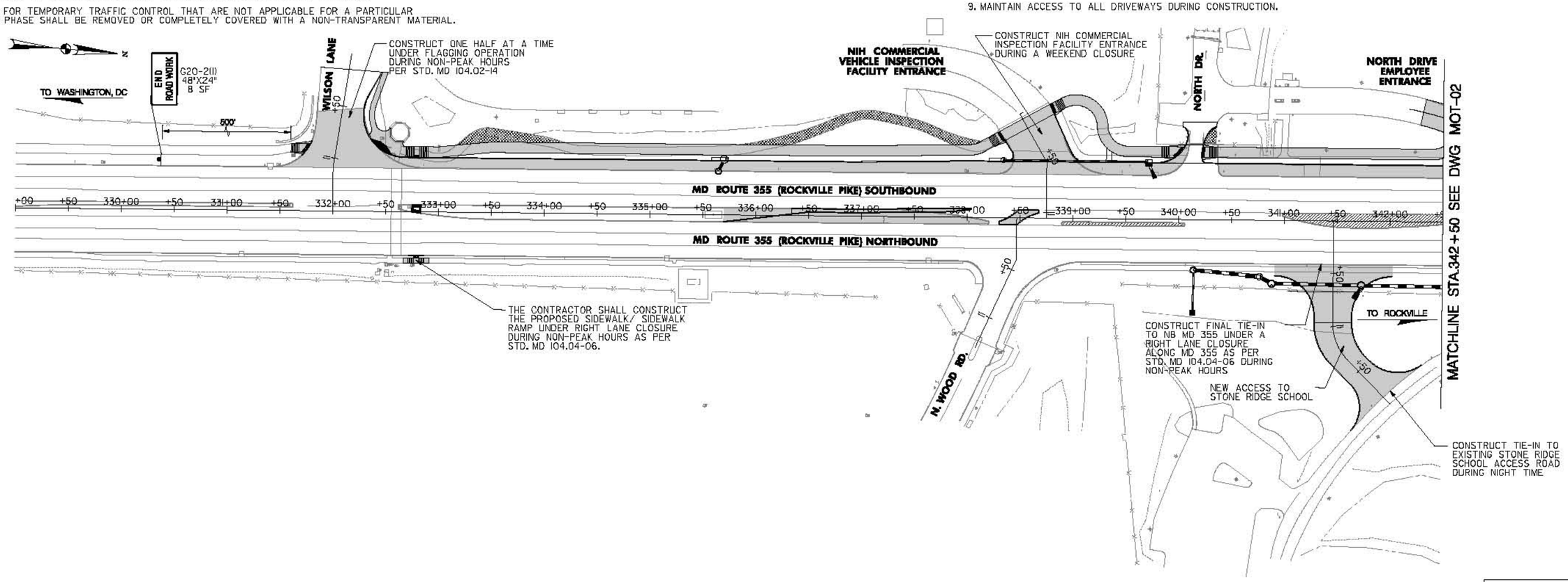
5. CONSTRUCT THE NEW ACCESS TO STONE RIDGE SCHOOL. PERFORM FINAL TIE-IN TO NB MD 355 UNDER A RIGHT LANE CLOSURE ALONG NB MD 355 AS PER STD. MD 104.04-06

6. EXISTING TRAFFIC SIGNAL SHALL BE UTILIZED DURING THIS PHASE. PRIOR TO REMOVAL OF THE EXISTING CHANNELIZING ISLAND AT THE INTERSECTION OF MD 355 AT CEDAR LANE, INSTALL TEMPORARY SIGNAL AS SHOWN ON THE MOT SIGNAL PLAN SHEET PSG OF P001B.

7. REMOVE EX. ISLANDS UNDER A RIGHT LANE CLOSURE ON MD 355 AND W.CEDAR LANE/CEDAR LANE AND INSTALL ULTIMATE PAVEMENT AS PER STD. MD 104.04-06 AND STD. MD 104.03-06 DURING NON-PEAK HOURS.

8. INSTALL PEDESTRIAN DETOUR SIGNING AS SHOWN ON PHASE 3 MOT PLANS AND DIVERT PEDESTRIANS TO THE EAST SIDE OF MD 355 USING THE EXISTING SIDEWALK.

9. MAINTAIN ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION.



MOT PHASE 1A

SEMI-FINAL SUBMITTAL NOT FOR CONSTRUCTION

SYMBOL LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- REMOVAL OF EXISTING PAVEMENT
- TEMPORARY SIGN AND POST
- ARROW PANEL
- TRAFFIC FLOW ARROW
- TYPE III BARRICADE (8' WIDE)
- CRASH CUSHION SAND FILLED PLASTIC BARRELS (XX MPH)
- PORTABLE VARIABLE MESSAGE SIGN
- TYPE E END TREATMENT (# OF BAYS)
- DRUMS OR
- TEMPORARY 32 INCH F SHAPE CONCRETE TRAFFIC BARRIER OR
- PROPOSED SIGN

PAVEMENT MARKING LEGEND

(A) 5 IN WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT – SOLID
(B) 5 IN WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT – 3' LINE 9' GAP
(C) 5 IN WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT – 10' LINE 30' GAP
(D) 5 IN YELLOW NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT – SOLID
(E) 12 IN WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT – SOLID
(F) 12 IN YELLOW NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT – SOLID
(G) 5 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS – SOLID
(H) 5 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS – 3' LINE 9' GAP
(J) 5 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS – 10' LINE 30' GAP
(K) 12 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS – SOLID
(L) 24 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS – SOLID
(M) REMOVABLE PREFORMED PAVEMENT MARKING ARROWS AND SYMBOLS

60' 0 60' 100'
SCALE: 1" = 60'

SABRA, WANG & ASSOCIATES, INC.
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WWW.SABRA-WANG.COM

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS MD 355 & CEDAR LANE

REVISIONS

MAINTENANCE OF TRAFFIC PLAN

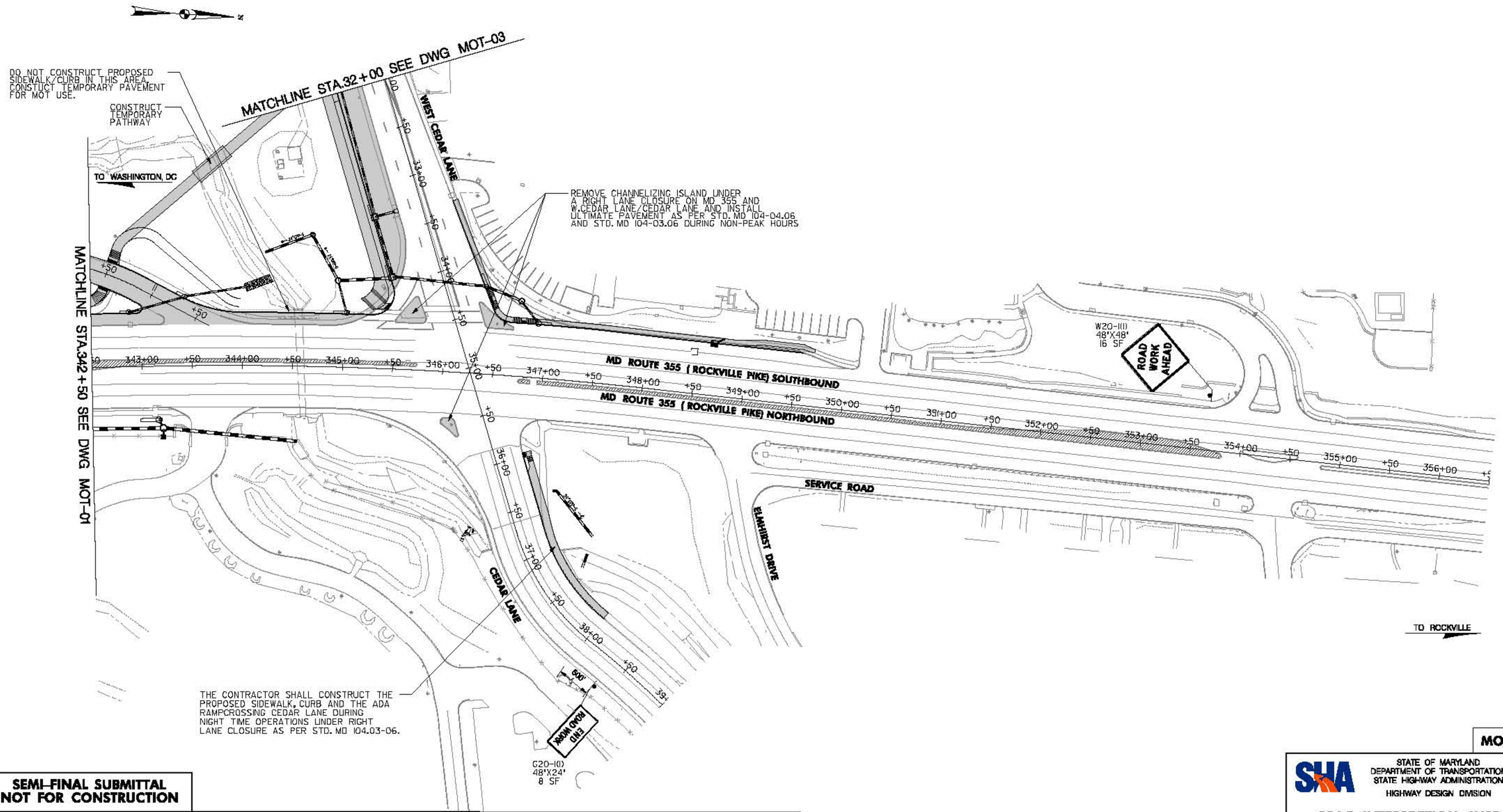
SCALE 1"=50' ADVERTISED DATE APRIL 2010 CONTRACT NO. M0698270

DESIGNED BY HM COUNTY MONTGOMERY
DRAWN BY HM LOGMILE
CHECKED BY S.DU HORIZONTAL SCALE
F.A.P. NO. SEE TITLE SHEET VERTICAL SCALE

DRAWING NO. MOT - 01 OF MOT-15 SHEET NO. 39 OF 140

PLOTTED: Thursday, April01, 2010 AT 02:42 PM
FILE: R:\2008\24 BCS 2009-08A WSDOM_CENTURY HWY\Task 41 MD 355 at Cedar Lane\Dwg\MOT\pMT-P01_M0355CL.dgn

BY: Hmohammed -



SEMI-FINAL SUBMITTAL
NOT FOR CONSTRUCTION

SYMBOL LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- REMOVAL OF EXISTING PAVEMENT
- TEMPORARY SIGN AND POST
- ARROW PANEL
- TRAFFIC FLOW ARROW
- TYPE III BARRICADE (8' WIDE)
- CRASH CUSHION SAND FILLED PLASTIC BARRELS (XX MPH)
- PORTABLE VARIABLE MESSAGE SIGN
- TYPE E END TREATMENT (# OF BAYS)
- DRUMS OR
- TEMPORARY 32 INCH F SHAPE CONCRETE TRAFFIC BARRIER OR
- PROPOSED SIGN

PAVEMENT MARKING LEGEND

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- (K) 12 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS – SOLID
- (L) 24 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS – SOLID
- (M) REMOVABLE PREFORMED PAVEMENT MARKING ARROWS AND SYMBOLS

50' 0 50' 100'
SCALE: 1" = 50'

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MOT PHASE 1A

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

REVISIONS

MAINTENANCE OF TRAFFIC PLAN

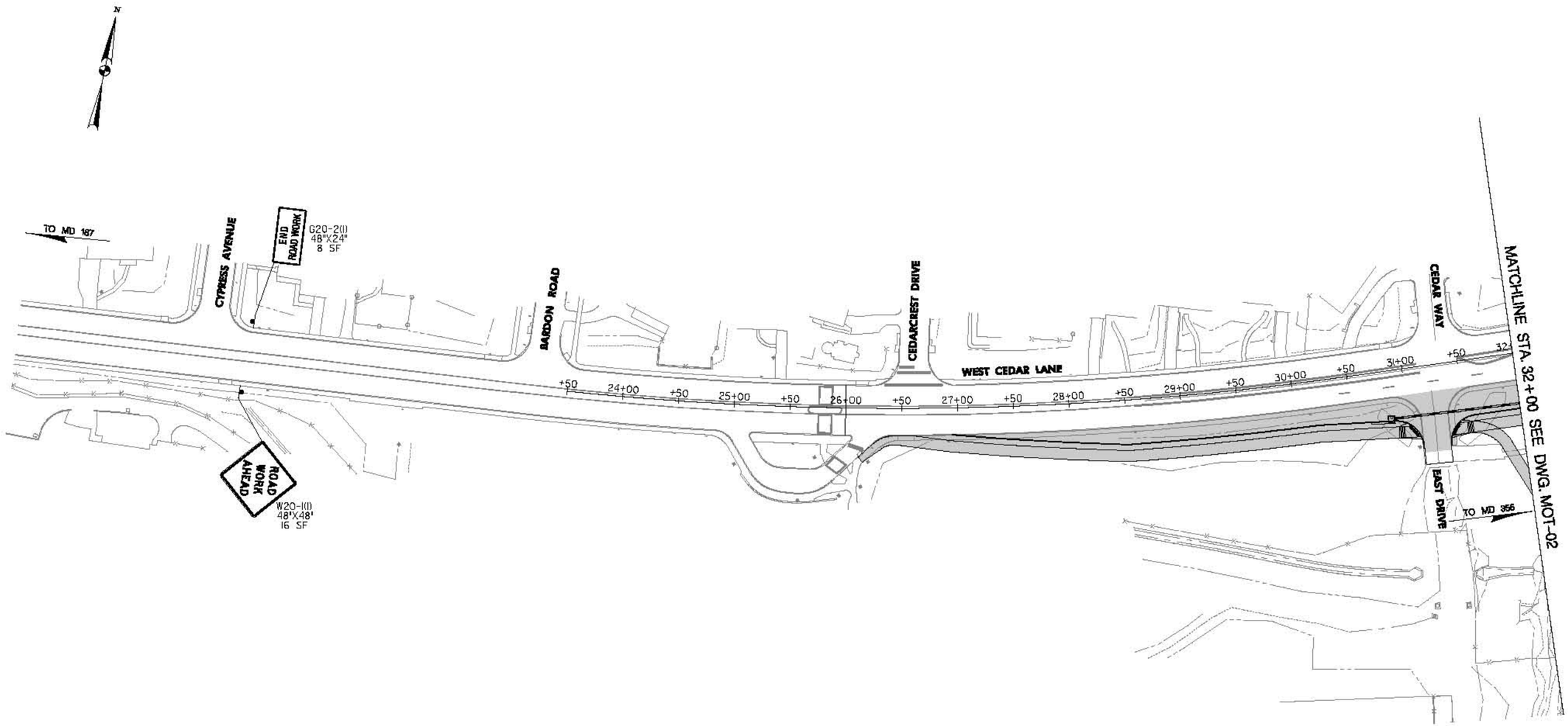
SCALE 1"=50' ADVERTISED DATE APRIL 2010 CONTRACT NO. MO6938270

DESIGNED BY HM
DRAWN BY HM
CHECKED BY S.DU
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. MOT - 02 OF MOT-15
SHEET NO. 40 OF 140

PLOTTED: Thursday, April 01, 2010 AT 02:42 PM
FILE: R:\2006\QA SCS 2005-08A WSDOM_CENTURY HWY\Task 41 MD 355 at Cedar Lane\Dwg\MOT\pMT-PH2_MD355CL.dgn

BY: Hmohammed -



MOT PHASE 1A

SEMI-FINAL SUBMITTAL
NOT FOR CONSTRUCTION

SYMBOL LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- REMOVAL OF EXISTING PAVEMENT
- TEMPORARY SIGN AND POST
- ARROW PANEL
- TRAFFIC FLOW ARROW
- TYPE III BARRICADE (8' WIDE)
- CRASH CUSHION SAND FILLED PLASTIC BARRELS (XX MPH)
- PORTABLE VARIABLE MESSAGE SIGN
- TYPE E END TREATMENT (# OF BAYS)
- DRUMS OR
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- PROPOSED SIGN

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SCALE: 1" = 50'

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BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

REVISIONS

MAINTENANCE OF TRAFFIC PLAN

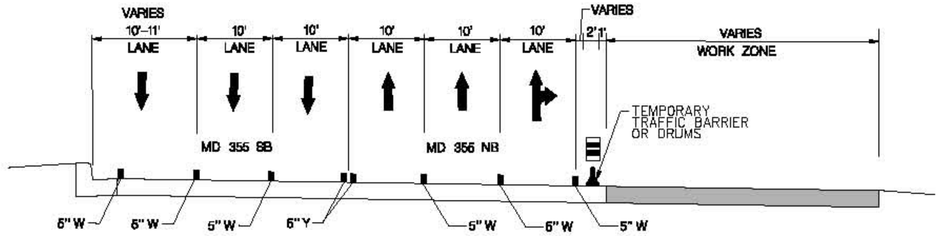
SCALE 1"=50' ADVERTISED DATE APRIL 2010 CONTRACT NO. M0693270

DESIGNED BY HM
DRAWN BY HM
CHECKED BY S.DU
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. MOT – 03 OF MOT–15 SHEET NO. 41 OF 140

BY: Hmohammed –

PLOTTED: Thursday, April 01, 2010 AT 02:44 PM
FILE: R:\2006\pit 0629 2009-09A WSDOM_CENTURY HWY\Task 41 MD 355 at Cedar Lane\Dwg\MOT\pMT-P103_MD355CL.dgn

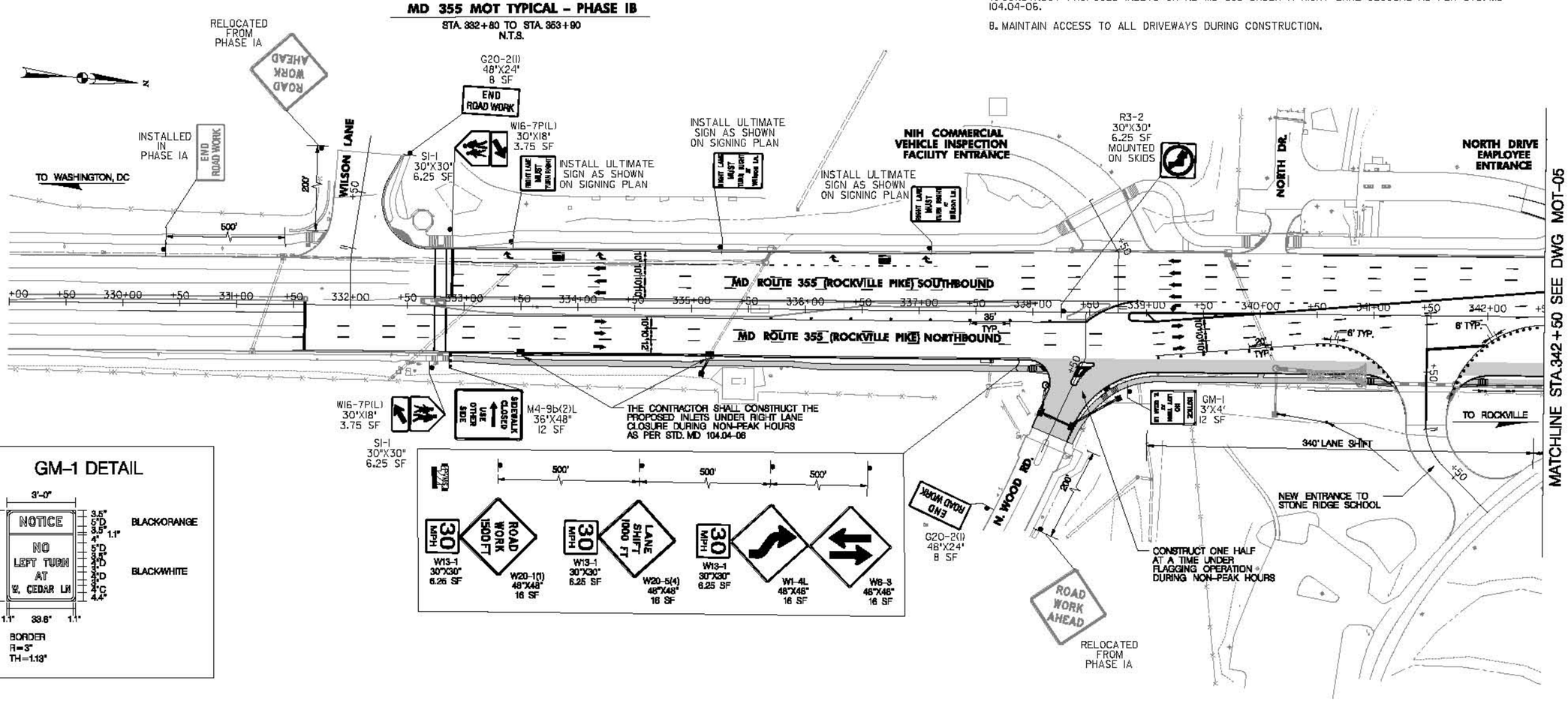


MD 355 MOT TYPICAL – PHASE IB

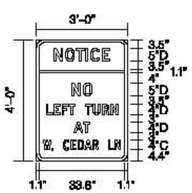
STA. 332+80 TO STA. 353+90
N.T.S.

SEQUENCE OF CONSTRUCTION – PHASE IB

1. INSTALL CHANNELIZING DEVICES AND TEMPORARY TRAFFIC SIGNS, AS SHOWN ON PLANS.
2. INSTALL TEMPORARY PAVEMENT MARKINGS UNDER MOBILE OPERATIONS AS PER STD. MD 104.02-18.
3. INSTALL THE TEMPORARY CONCRETE TRAFFIC BARRIERS AS SHOWN ON THE PLANS, UNDER RIGHT LANE CLOSURE AS PER STD. MD 104.04-06.
4. DIRECT PEDESTRIANS TO THE TEMPORARY PATHWAY INSTALLED IN PHASE IA AND THEN TO THE NORTHSIDE OF CEDAR LANE TO CROSS MD 355.
5. PROHIBIT THE LEFT TURNING MOVEMENT ON MD 355 AND MAINTAIN SIX (6) 10' LANES ON MD 355 AND THREE (3) 10' LANES ON CEDAR LANE. CONSTRUCT NB MD 355 WIDENING, PROPOSED SIDEWALKS AND THE CULVERT CROSSING MD 355, AS SHOWN ON THE PLANS.
6. CONSTRUCT CEDAR LANE WIDENING AND CULVERT CROSSING CEDAR LANE, AS SHOWN ON THE PLANS.
7. CONSTRUCT PROPOSED INLETS ON NB MD 355 UNDER A RIGHT LANE CLOSURE AS PER STD. MD 104.04-06.
8. MAINTAIN ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION.



GM-1 DETAIL



SEMI-FINAL SUBMITTAL NOT FOR CONSTRUCTION

SYMBOL LEGEND

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- REMOVAL OF EXISTING PAVEMENT
- TEMPORARY SIGN AND POST
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(L) 24 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS – SOLID
(M) REMOVABLE PREFORMED PAVEMENT MARKING ARROWS AND SYMBOLS

60' 0 60' 100'
SCALE: 1" = 60'

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MOT PHASE 1B

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

REVISIONS

MAINTENANCE OF TRAFFIC PLAN

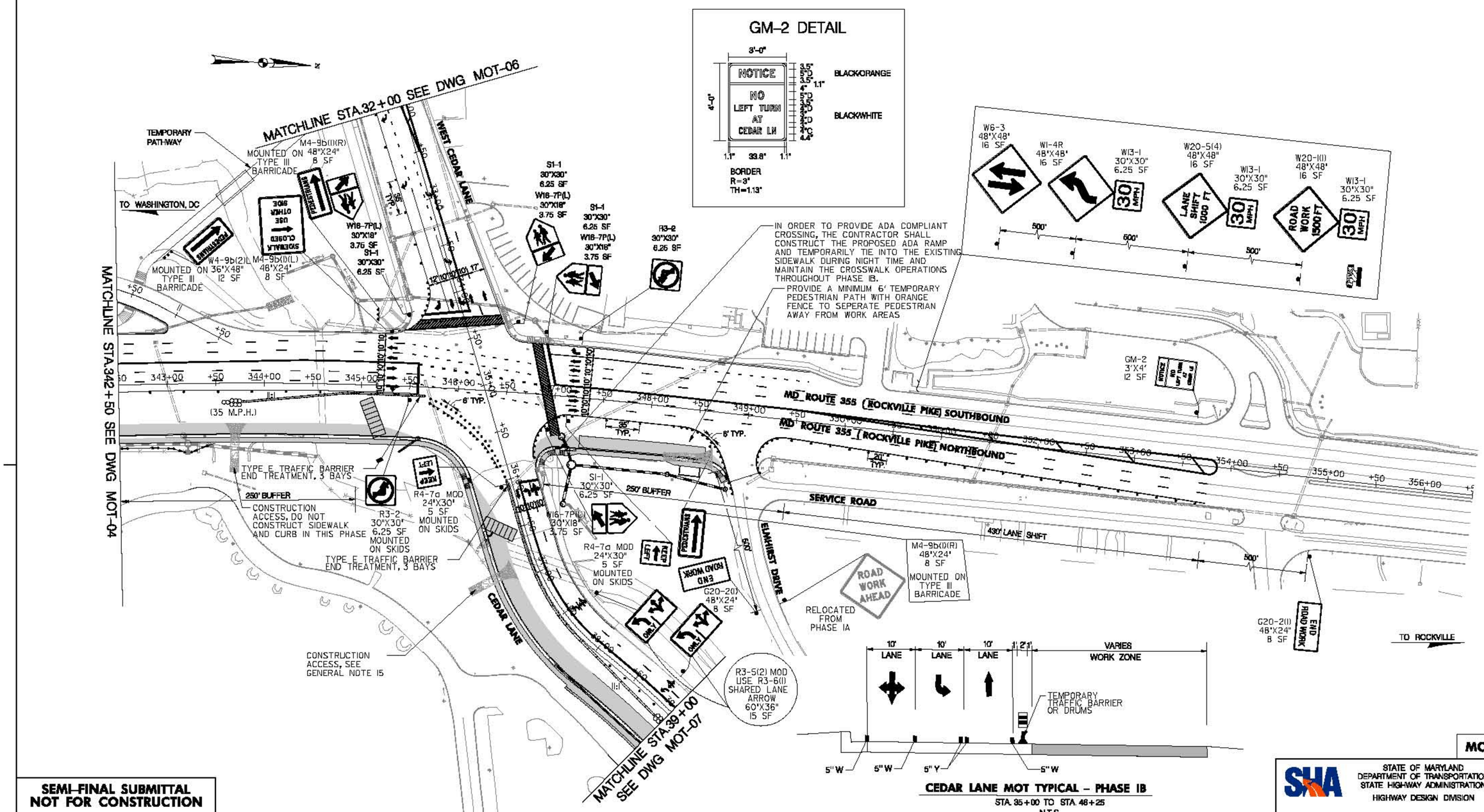
SCALE 1"=50' ADVERTISED DATE APRIL 2010 CONTRACT NO. MO6938270

DESIGNED BY HM
DRAWN BY HM
CHECKED BY S.DU
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. MOT – 04 OF MOT-15
SHEET NO. 42 OF 140

BY: Hmohammed –

PLOTTED: Thursday, April 01, 2010 AT 02:45 PM
FILE: R:\2006\job 0506 2006-04A WSDOT_CENTURY HWY\Task 41 MD 355 at Cedar Lane\Dwg\MOT\jobR-PIP4_MD355CL.dgn



MOT PHASE 1B

SEMI-FINAL SUBMITTAL NOT FOR CONSTRUCTION

SYMBOL LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- REMOVAL OF EXISTING PAVEMENT
- TEMPORARY SIGN AND POST
- ARROW PANEL
- TRAFFIC FLOW ARROW
- TYPE III BARRICADE (8' WIDE)
- CRASH CUSHION SAND FILLED PLASTIC BARRELS (XX MPH)
- PORTABLE VARIABLE MESSAGE SIGN
- TYPE E END TREATMENT (# OF BAYS)
- DRUMS
- TEMPORARY 32 INCH F SHAPE CONCRETE TRAFFIC BARRIER
- PROPOSED SIGN

PAVEMENT MARKING LEGEND

(A) 5 IN WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT – SOLID
(B) 5 IN WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT – 3' LINE 9' GAP
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(F) 12 IN YELLOW NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT – SOLID
(G) 5 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS – SOLID
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(L) 24 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS – SOLID
(M) REMOVABLE PREFORMED PAVEMENT MARKING ARROWS AND SYMBOLS

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BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

REVISIONS

MAINTENANCE OF TRAFFIC PLAN

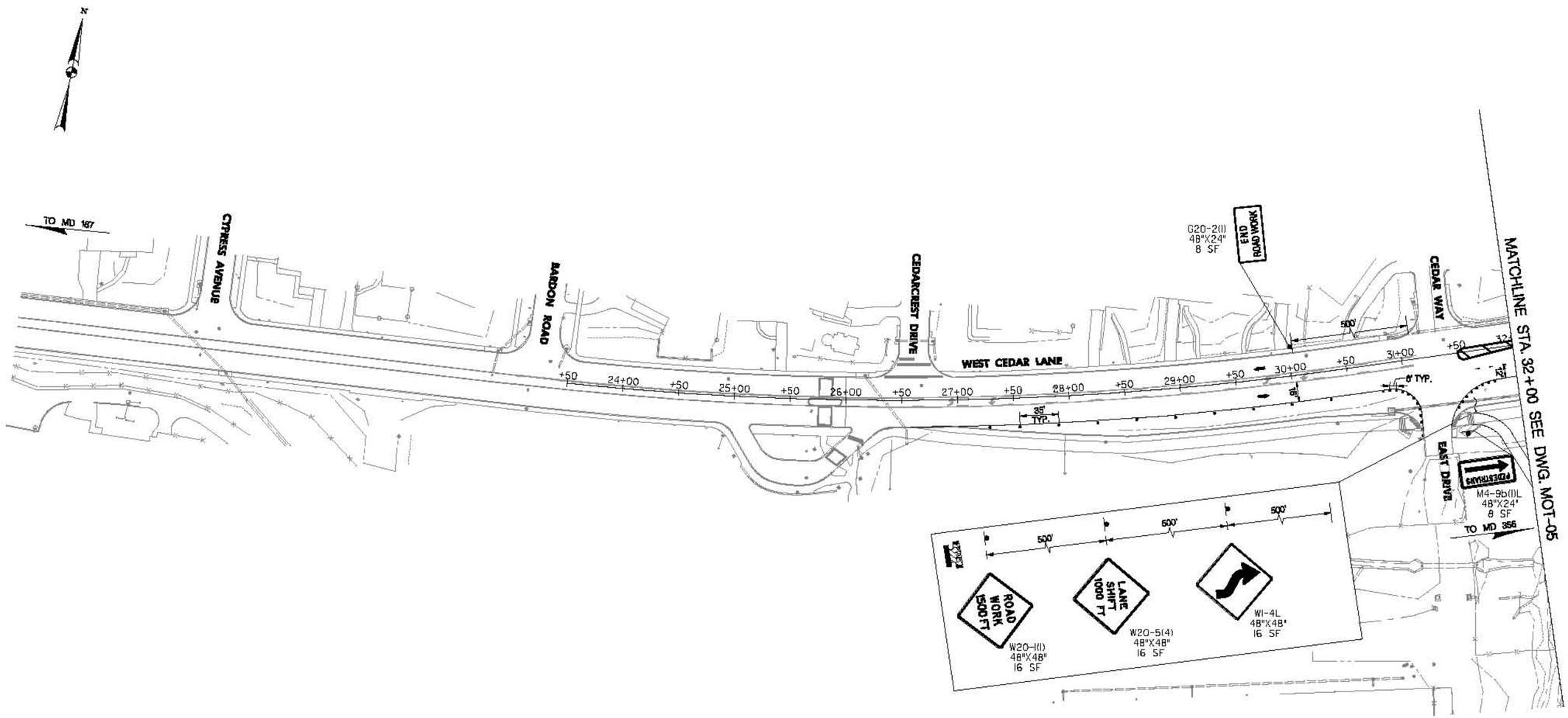
SCALE 1"=50' ADVERTISED DATE APRIL 2010 CONTRACT NO. MO6938270

DESIGNED BY HM
DRAWN BY HM
CHECKED BY S.DU
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. MOT – 05 OF MOT–15 SHEET NO. 49 OF 140

PLOTTED: Thursday, April 01, 2010 AT 09:46 PM
FILE: R:\2006\job 0531 2006-0MA WSDOT_CENTURY HWY\Task 41 MD 355 at Cedar Lane\Dwg\MOT\jobMT-PH05_MO355CL.dgn

BY: Hmohammed –



SEMI-FINAL SUBMITTAL
NOT FOR CONSTRUCTION

SYMBOL LEGEND

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- REMOVAL OF EXISTING PAVEMENT
- TEMPORARY SIGN AND POST
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(M) REMOVABLE PREFORMED PAVEMENT MARKING ARROWS AND SYMBOLS

50' 0 50' 100'
SCALE: 1" = 50'

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MOT PHASE 1B

STATE OF MARYLAND
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STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

REVISIONS

MAINTENANCE OF TRAFFIC PLAN

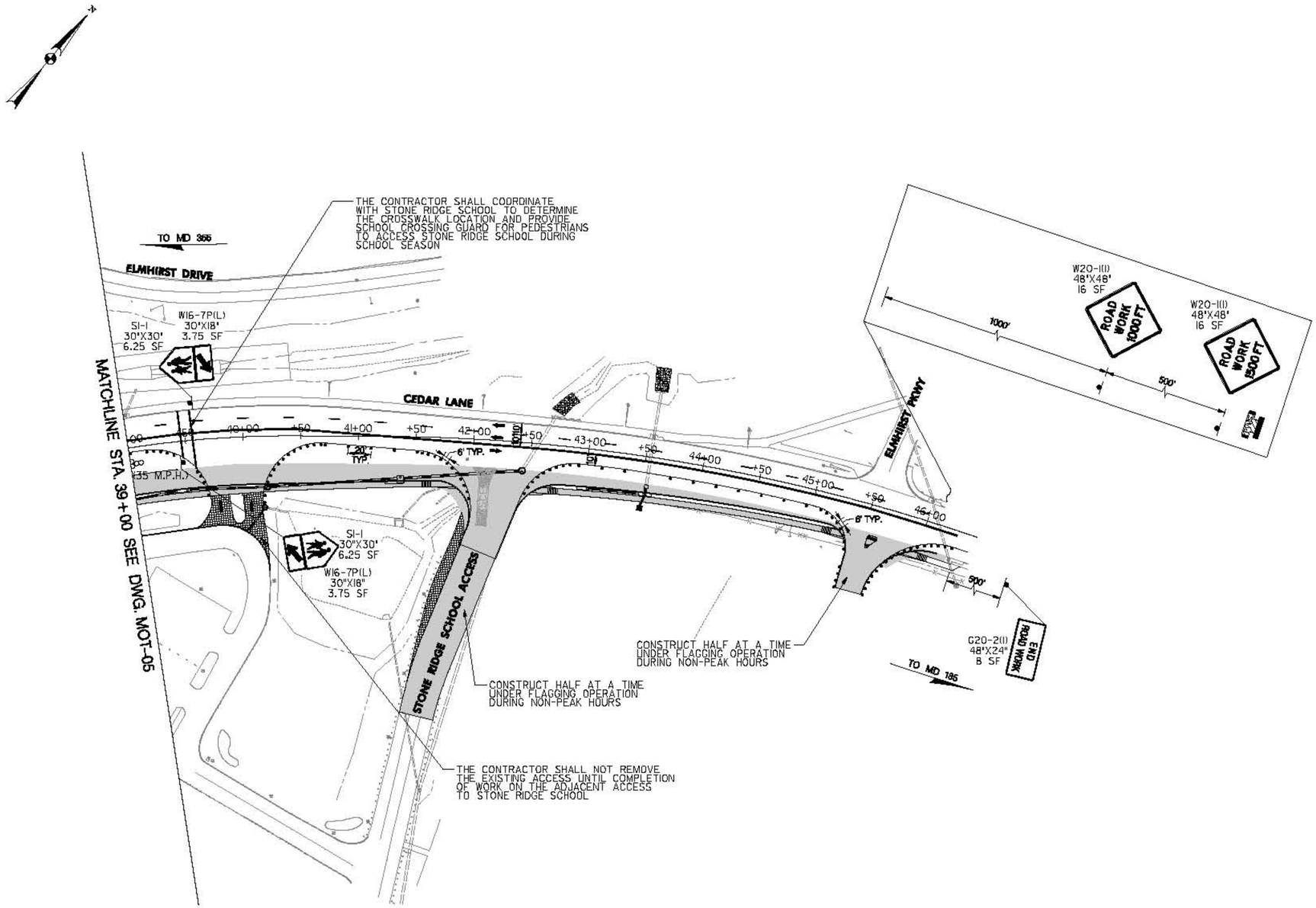
SCALE 1"=50' ADVERTISED DATE APRIL 2010 CONTRACT NO. M0628270

DESIGNED BY HM
DRAWN BY HM
CHECKED BY S.DU
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. MOT - 06 OF MOT-15
SHEET NO. 44 OF 140

PLOTTED: Thursday, April 01, 2010 AT 09:47 PM
FILE: R:\2006\jobs 2006-06A WSDOT_CENTURY HWY\Task 41 MD 355 at Cedar Lane\Dwg\MOT\jobT-P108_MD355CL.dgn

BY: Hmohammed –



MOT PHASE 1B

SEMI-FINAL SUBMITTAL
NOT FOR CONSTRUCTION

SYMBOL LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- REMOVAL OF EXISTING PAVEMENT
- TEMPORARY SIGN AND POST
- ARROW PANEL
- TRAFFIC FLOW ARROW
- TYPE III BARRICADE (8' WIDE)
- CRASH CUSHION SAND FILLED PLASTIC BARRELS (XX MPH)
- PORTABLE VARIABLE MESSAGE SIGN
- TYPE E END TREATMENT (# OF BAYS)
- DRUMS OR
- TEMPORARY 32 INCH F SHAPE CONCRETE TRAFFIC BARRIER OR
- PROPOSED SIGN

PAVEMENT MARKING LEGEND

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60' 0 60' 100'
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HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

REVISIONS

MAINTENANCE OF TRAFFIC PLAN

SCALE 1"=50' ADVERTISED DATE APRIL 2010 CONTRACT NO. MO6938270

DESIGNED BY HM
DRAWN BY HM
CHECKED BY S.DU
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. MOT – 07 OF MOT-15
SHEET NO. 46 OF 140

PLOTTED: Thursday, April 01, 2010 AT 02:46 PM
FILE: R:\2008\JM SCS 2008-08A WSDOM_CENTURY HWY\Task 41 MD 355 at Cedar Lane\Dwg\MOT\jsMT-P07_MD355CL.dgn

BY: Hmohammed –

SEQUENCE OF CONSTRUCTION - PHASE 2

1. INSTALL CHANNELIZING DEVICES AND TEMPORARY TRAFFIC SIGNS.

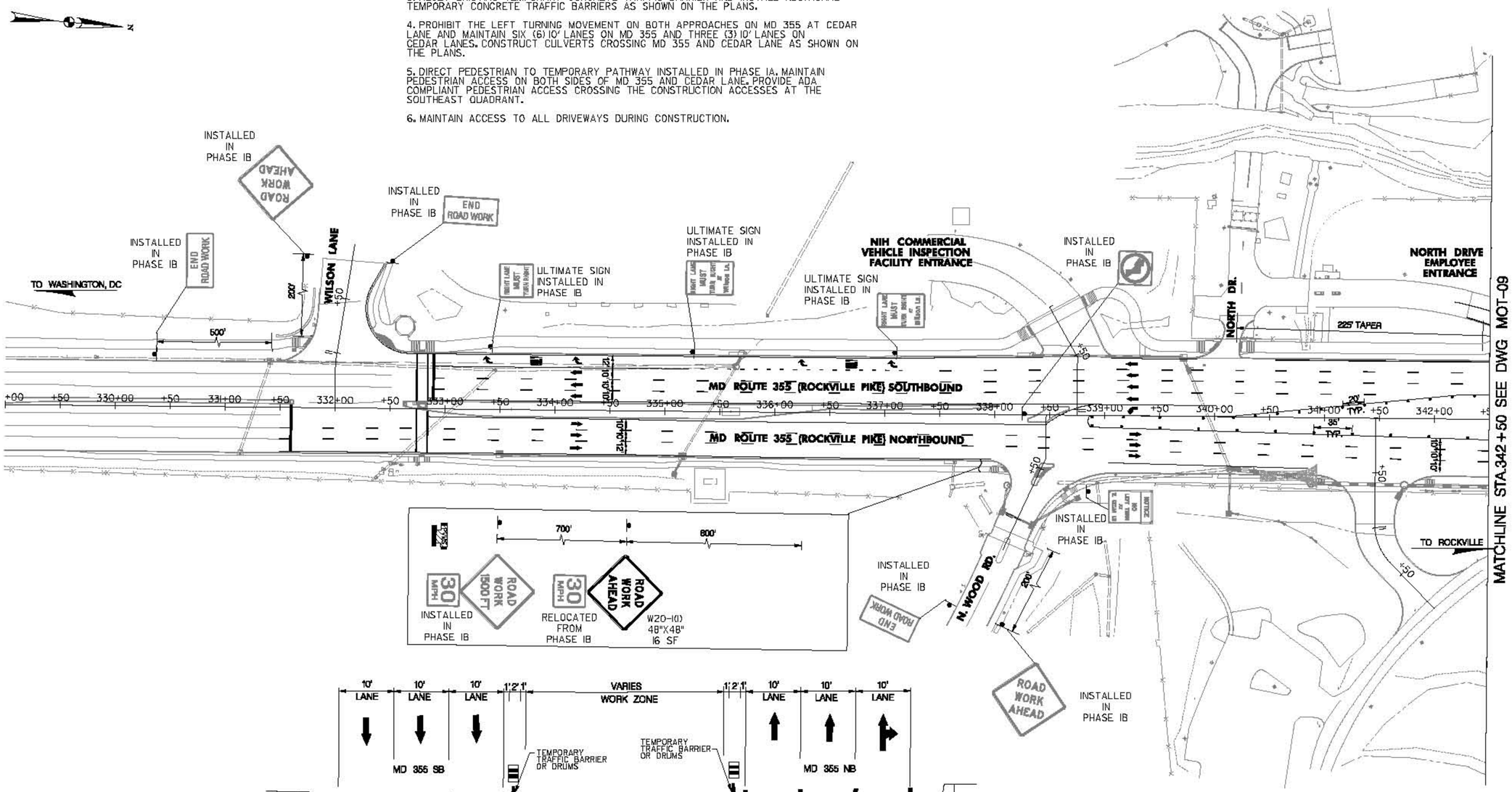
2. INSTALL TEMPORARY PAVEMENT MARKINGS UNDER MOBILE OPERATIONS AS PER STD. MD 104.02-18.

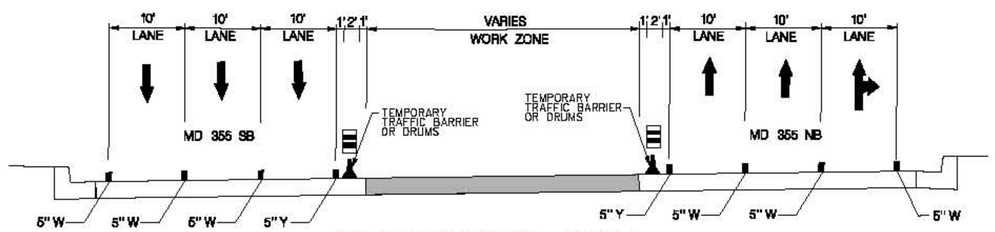
3. RESET EXISTING TEMPORARY CONCRETE TRAFFIC BARRIER AND INSTALL ADDITIONAL TEMPORARY CONCRETE TRAFFIC BARRIERS AS SHOWN ON THE PLANS.

4. PROHIBIT THE LEFT TURNING MOVEMENT ON BOTH APPROACHES ON MD 355 AT CEDAR LANE AND MAINTAIN SIX (6) 10' LANES ON MD 355 AND THREE (3) 10' LANES ON CEDAR LANES. CONSTRUCT CULVERTS CROSSING MD 355 AND CEDAR LANE AS SHOWN ON THE PLANS.

5. DIRECT PEDESTRIAN TO TEMPORARY PATHWAY INSTALLED IN PHASE IA. MAINTAIN PEDESTRIAN ACCESS ON BOTH SIDES OF MD 355 AND CEDAR LANE. PROVIDE ADA COMPLIANT PEDESTRIAN ACCESS CROSSING THE CONSTRUCTION ACCESSES AT THE SOUTHEAST QUADRANT.

6. MAINTAIN ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION.





MD 355 MOT TYPICAL – PHASE 2

FROM STA. 338+80 TO STA. 345+80
N.T.S.

SEMI-FINAL SUBMITTAL NOT FOR CONSTRUCTION

SYMBOL LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- REMOVAL OF EXISTING PAVEMENT
- TEMPORARY SIGN AND POST
- ARROW PANEL
- TRAFFIC FLOW ARROW
- TYPE III BARRICADE (8' WIDE)
- CRASH CUSHION SAND FILLED PLASTIC BARRELS (XX MPH)
- PORTABLE VARIABLE MESSAGE SIGN
- TYPE E END TREATMENT (# OF BAYS)
- DRUMS
- TEMPORARY 32 INCH F SHAPE CONCRETE TRAFFIC BARRIER
- PROPOSED SIGN

PAVEMENT MARKING LEGEND

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- (M) REMOVABLE PREFORMED PAVEMENT MARKING ARROWS AND SYMBOLS

50' 0 50' 100'
SCALE: 1" = 50'

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MOT PHASE 2

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

REVISIONS

MAINTENANCE OF TRAFFIC PLAN

SCALE 1"=50' ADVERTISED DATE APRIL 2010 CONTRACT NO. MO6938270

DESIGNED BY HM
DRAWN BY HM
CHECKED BY S.DU
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. MOT - 08 OF MOT-15
SHEET NO. 48 OF 140

BY: Hmohammed -

PLOTTED: Thursday, April 01, 2010 AT 09:49 PM
FILE: R:\2006\jobs\SCSI 2006-09A WSDOT_CENTURY HWY\Task 41 MD 355 at Cedar Lane\Dwg\MOT\pMT-P201_MD355CL.dgn

MATCHLINE STA.32+00 SEE DWG MOT-10

TEMPORARY PATHWAY

TO WASHINGTON, DC

WEST CEDAR LANE

INSTALLED IN PHASE IB

PEDESTRIANS

250' BUFFER

RELOCATED FROM PHASE IB MOUNTED ON SKIDS

MATCHLINE STA.342+50 SEE DWG MOT-08

MD ROUTE 355 (ROCKVILLE PIKE) SOUTHBOUND

MD ROUTE 355 (ROCKVILLE PIKE) NORTHBOUND

SERVICE ROAD

ELMHURST DRIVE

CEDAR LANE

RELOCATED FROM PHASE IB

W16-7P(L) 30"X18" 3.75 SF

S1-1 30"X30" 6.25 SF

END ROAD WORK

ROAD WORK AHEAD

MINIMUM 10' CONSTRUCTION ACCESS, SEE GENERAL NOTE 15

4' MINIMUM SIDEWALK SHALL BE MAINTAINED

TYPE E TRAFFIC BARRIER END TREATMENT, 3 BAYS

CONSTRUCTION ACCESS, SEE GENERAL NOTE 15

(35 M.P.H.)

35' TYP.

MATCHLINE STA.39+00 SEE DWG MOT-11

TO ROCKVILLE

INSTALLED IN PHASE IB

30 MPH

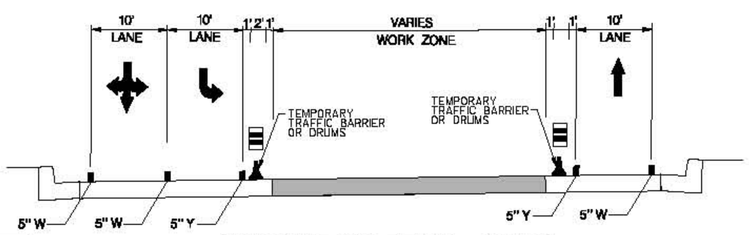
LANE SHIFT 1000 FT

ROAD WORK 1500 FT

500'

600'

500'



CEDAR LANE MOT TYPICAL – PHASE 2

FROM STA. 36+00 TO STA. 45+10
N.T.S.

60' 0 60' 100'
SCALE: 1"=60'

SEMI-FINAL SUBMITTAL NOT FOR CONSTRUCTION

SYMBOL LEGEND

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- TEMPORARY SIGN AND POST
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- PROPOSED SIGN

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MOT PHASE 2

STATE OF MARYLAND
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STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

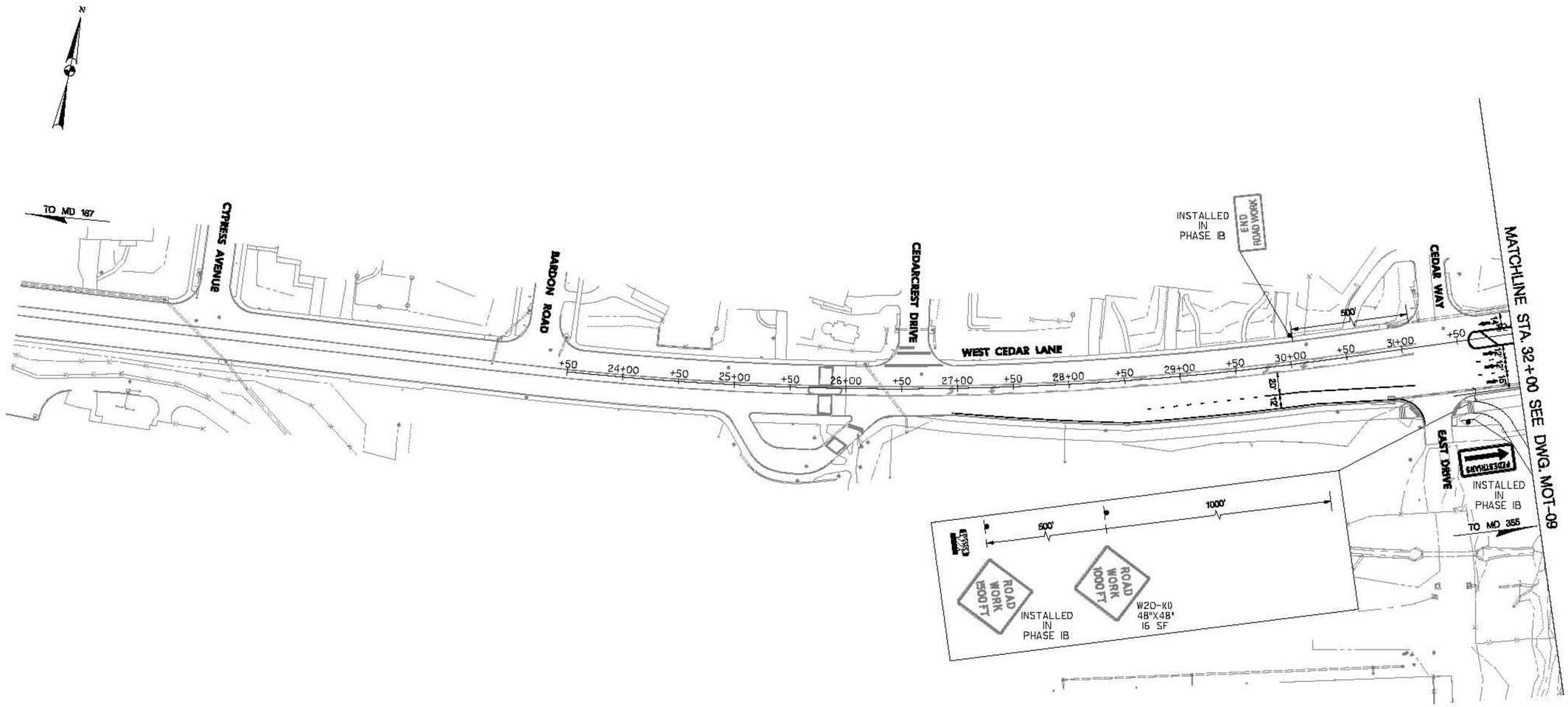
REVISIONS

MAINTENANCE OF TRAFFIC PLAN

SCALE	1"=50'	ADVERTISED DATE	APRIL 2010
CONTRACT NO.	M0698270		
DESIGNED BY	HM	COUNTY	MONTGOMERY
DRAWN BY	HM	LOGMILE	
CHECKED BY	S.DU	HORIZONTAL SCALE	
F.A.P. NO.	SEE TITLE SHEET	VERTICAL SCALE	
DRAWING NO.	MOT - 09 OF MOT-15	SHEET NO.	47 OF 140

PLOTTED: Thursday, April 01, 2010 AT 03:30 PM
FILE: R:\2008\JM SCS 2005-08A WSDOT_CENTURY HWY\Task 41 MD 355 at Cedar Lane\Dwg\MOT\pMT-P2S2_MD355CL.dgn

BY: Hmohammed –



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MOT PHASE 2

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MD 355 & CEDAR LANE

REVISIONS

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SCALE 1"=50' ADVERTISED DATE APRIL 2010 CONTRACT NO. MO6938270

DESIGNED BY HM
DRAWN BY HM
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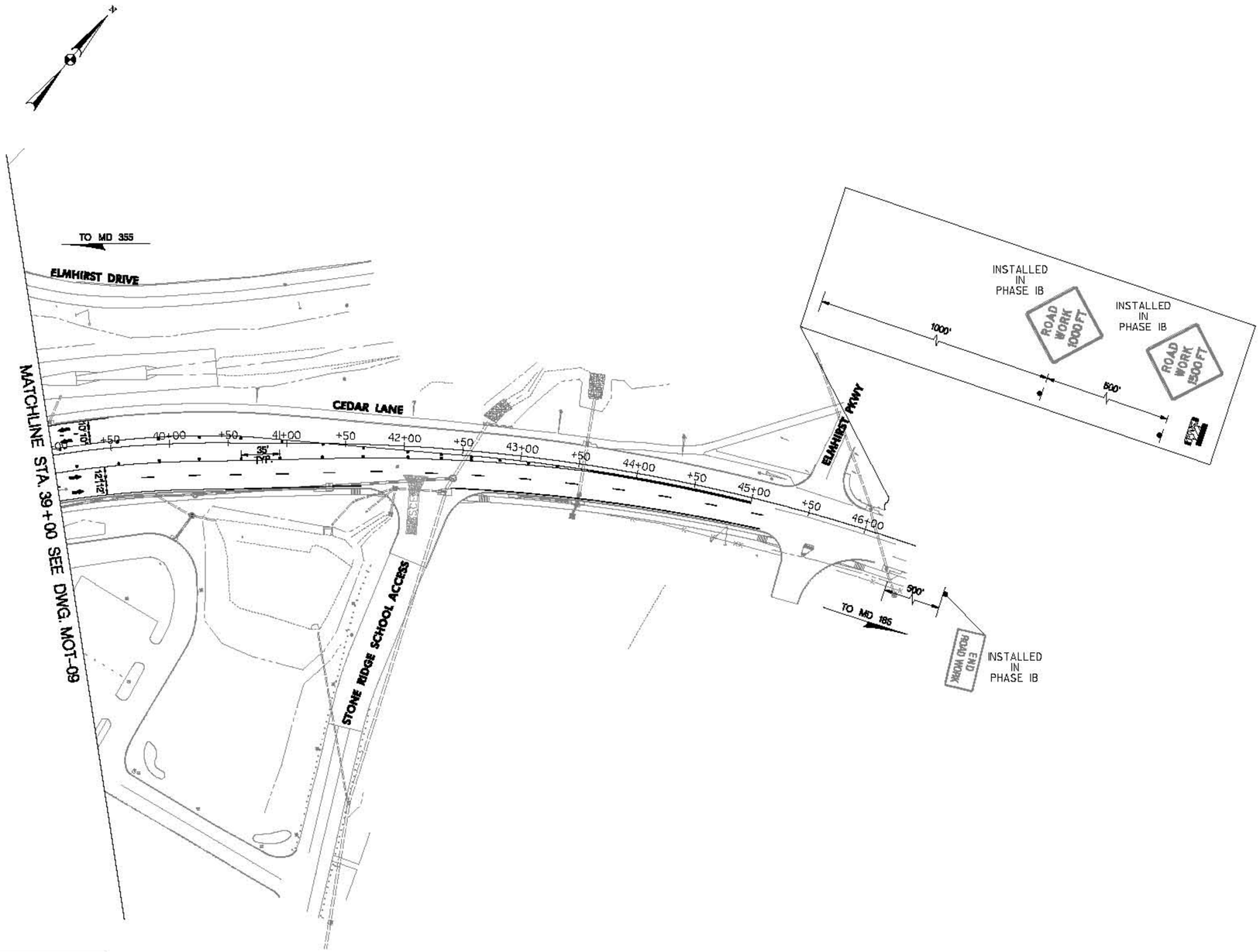
VERTICAL SCALE

DRAWING NO. MOT – 10 OF MOT–15
SHEET NO. 48 OF 140

BY: Hmohammed –

PLOTTED: Thursday, April 01, 2010 AT 03:09 PM
FILE: R:\2008\QR SCS 2009-08A WSGM_CENTURY HWY\Task 41 MD 355 at Cedar Lane\Dwg\MOT\pMT-P2S2_MD355CL.dgn



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- DRUMS OR
- TEMPORARY 32 INCH F SHAPE CONCRETE TRAFFIC BARRIER OR
- PROPOSED SIGN (ROAD WORK)

PAVEMENT MARKING LEGEND

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- (L) 24 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS – SOLID
- (M) REMOVABLE PREFORMED PAVEMENT MARKING ARROWS AND SYMBOLS

60' 0 60' 100'
SCALE: 1" = 60'

SABRA, WANG & ASSOCIATES, INC.
1504 JOH AVENUE
SUITE 160
BALTIMORE, MD 21227
(410) 727-6564
WWW.SABRA-WANG.COM

MOT PHASE 2

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

REVISIONS

MAINTENANCE OF TRAFFIC PLAN

SCALE 1"=50' ADVERTISED DATE APRIL 2010 CONTRACT NO. MO6B8270

DESIGNED BY HM
DRAWN BY HM
CHECKED BY S.DU
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. MOT – 11 OF MOT–15
SHEET NO. 49 OF 140

PLOTTED: Thursday, April 01, 2010 AT 03:55 PM
FILE: R:\2008\Jet SCS 2008-09A WSCM_CENTURY HWY\Task 41 MD 355 at Cedar Lane\Dwg\MOT\jobMT-P2b1_MD355CL.dgn

BY: Hmohammed –

SEQUENCE OF CONSTRUCTION - PHASE 3

1. INSTALL CHANNELIZING DEVICES AND TEMPORARY TRAFFIC SIGNS.

2. INSTALL TEMPORARY PAVEMENT MARKINGS UNDER MOBILE OPERATIONS AS PER STD. MD 104.02-18.

3. RESET EXISTING TEMPORARY CONCRETE TRAFFIC BARRIER AND INSTALL ADDITIONAL TEMPORARY CONCRETE TRAFFIC BARRIERS AS SHOWN ON THE PLANS.

4. PROHIBIT THE LEFT TURNING MOVEMENT ON MD 355 AND MAINTAIN SIX (6) 10' LANES AND THREE (3) 10' LANES ON CEDAR LANES. CONSTRUCT CULVERTS CROSSING MD 355 AND CEDAR LANE AS SHOWN ON THE PLANS.

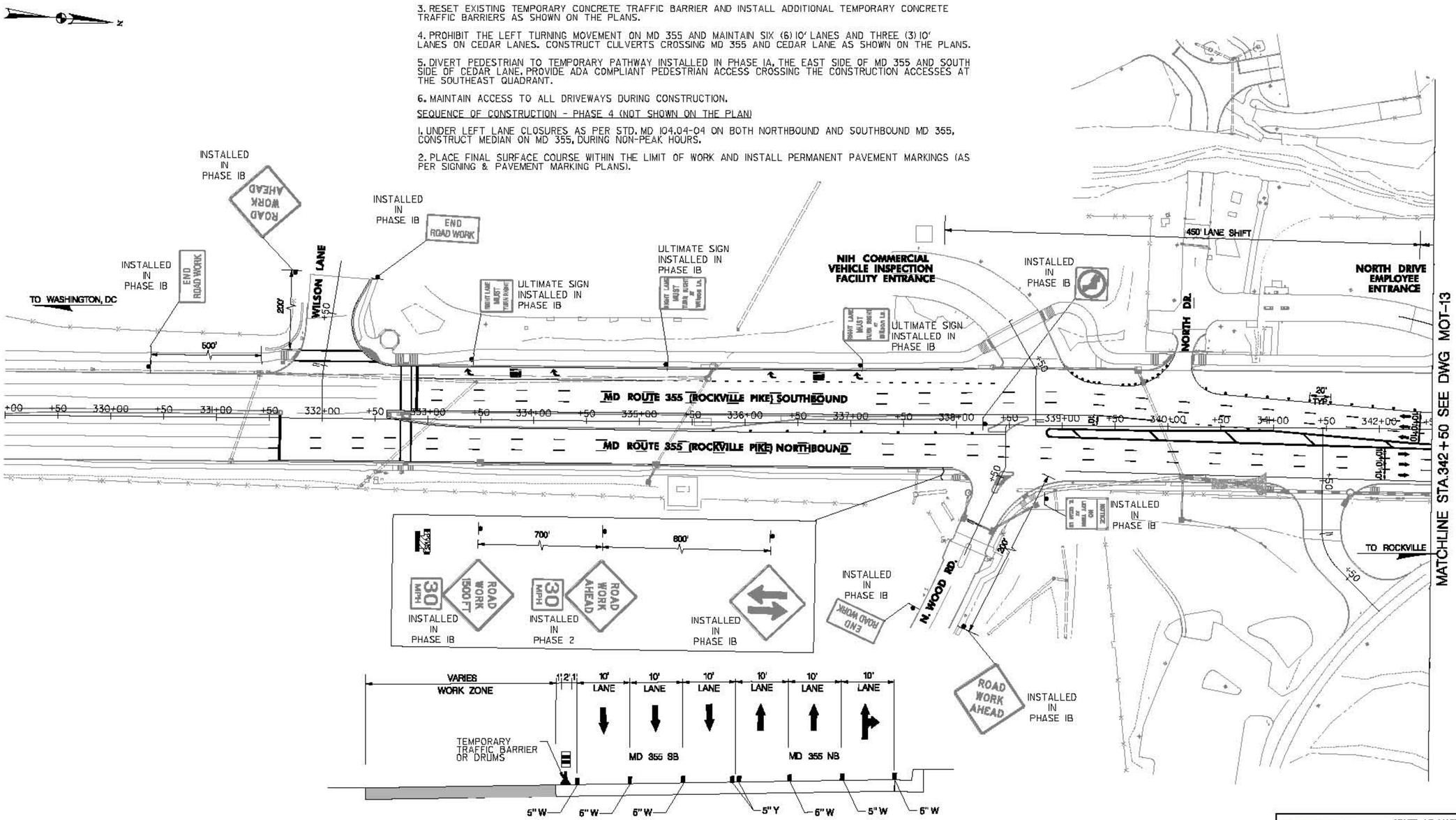
5. DIVERT PEDESTRIAN TO TEMPORARY PATHWAY INSTALLED IN PHASE 1A, THE EAST SIDE OF MD 355 AND SOUTH SIDE OF CEDAR LANE. PROVIDE ADA COMPLIANT PEDESTRIAN ACCESS CROSSING THE CONSTRUCTION ACCESSES AT THE SOUTHEAST QUADRANT.

6. MAINTAIN ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION.

SEQUENCE OF CONSTRUCTION - PHASE 4 (NOT SHOWN ON THE PLAN)

1. UNDER LEFT LANE CLOSURES AS PER STD. MD 104.04-04 ON BOTH NORTHBOUND AND SOUTHBOUND MD 355, CONSTRUCT MEDIAN ON MD 355, DURING NON-PEAK HOURS.

2. PLACE FINAL SURFACE COURSE WITHIN THE LIMIT OF WORK AND INSTALL PERMANENT PAVEMENT MARKINGS (AS PER SIGNING & PAVEMENT MARKING PLANS).



MD 355 MOT TYPICAL - PHASE 3

STA. 339+00 TO STA. 345+60

N.T.S.

SEMI-FINAL SUBMITTAL NOT FOR CONSTRUCTION

SYMBOL LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- REMOVAL OF EXISTING PAVEMENT
- TEMPORARY SIGN AND POST
- ARROW PANEL
- TRAFFIC FLOW ARROW
- TYPE III BARRICADE (8' WIDE)
- CRASH CUSHION SAND FILLED PLASTIC BARRELS (XX MPH)
- PORTABLE VARIABLE MESSAGE SIGN
- TYPE E END TREATMENT (# OF BAYS)
- DRUMS OR
- TEMPORARY 32 INCH F SHAPE CONCRETE TRAFFIC BARRIER OR
- PROPOSED SIGN

PAVEMENT MARKING LEGEND

- (A) 5 IN WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT - SOLID
- (B) 5 IN WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT - 3' LINE 9' GAP
- (C) 5 IN WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT - 10' LINE 30' GAP
- (D) 5 IN YELLOW NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT - SOLID
- (E) 12 IN WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT - SOLID
- (F) 12 IN YELLOW NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT - SOLID
- (G) 5 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS - SOLID
- (H) 5 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS - 3' LINE 9' GAP
- (J) 5 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS - 10' LINE 30' GAP
- (K) 12 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS - SOLID
- (L) 24 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS - SOLID
- (M) REMOVABLE PREFORMED PAVEMENT MARKING ARROWS AND SYMBOLS

60' 0 60' 100'

SCALE: 1" = 60'

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MOT PHASE 3

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS MD 355 & CEDAR LANE

REVISIONS

MAINTENANCE OF TRAFFIC PLAN

SCALE 1"=50' ADVERTISED DATE APRIL 2010 CONTRACT NO. MO6928270

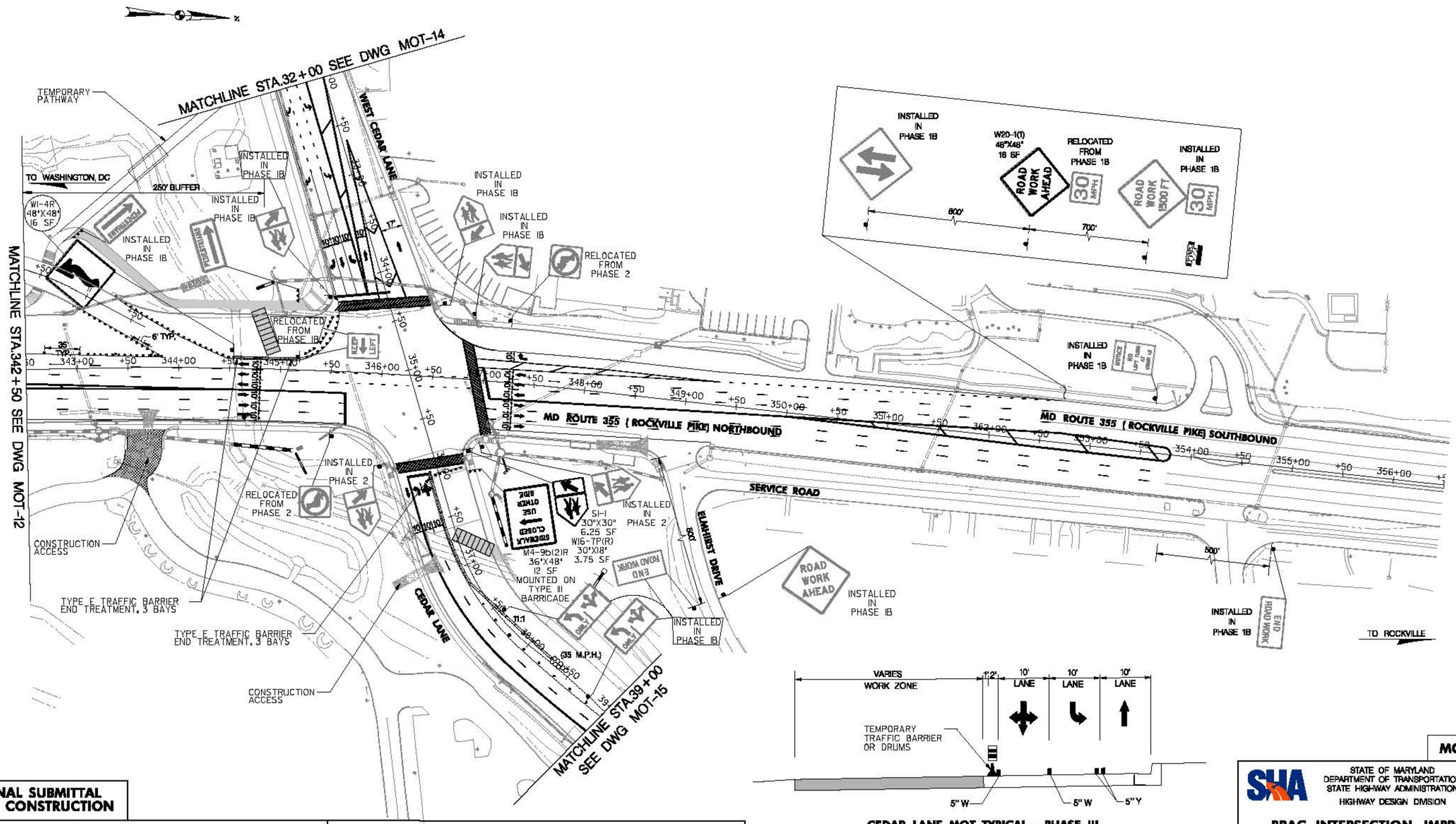
DESIGNED BY HM
DRAWN BY HM
CHECKED BY S.DU
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. MOT - 12 OF MOT-15

SHEET NO. 60 OF 140

PLOTTED: Thursday, April 01, 2010 AT 03:54 PM
FILE: R:\2008\24 SCS 2008-08A WSCM_CENTURY HWY\Task 41 MD 355 at Cedar Lane\Dwg\MOT\pMT-P301_MD355CL.dgn

BY: Hmohammed -



CEDAR LANE MOT TYPICAL – PHASE III

STA. 35+90 TO STA. 42+50
N.T.S.

60' 0 60' 100'
SCALE: 1" = 60'

SEMI-FINAL SUBMITTAL NOT FOR CONSTRUCTION

SYMBOL LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- REMOVAL OF EXISTING PAVEMENT
- TEMPORARY SIGN AND POST
- ARROW PANEL
- TRAFFIC FLOW ARROW
- TYPE III BARRICADE (8' WIDE)
- CRASH CUSHION SAND FILLED PLASTIC BARRELS (XX MPH)
- PORTABLE VARIABLE MESSAGE SIGN
- TYPE E END TREATMENT (# OF BAYS)
- DRUMS
- TEMPORARY 32 INCH F SHAPE CONCRETE TRAFFIC BARRIER
- PROPOSED SIGN

PAVEMENT MARKING LEGEND

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(C) 5 IN WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT – 10' LINE 30' GAP
(D) 5 IN YELLOW NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT – SOLID
(E) 12 IN WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT – SOLID
(F) 12 IN YELLOW NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT – SOLID
(G) 5 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS – SOLID
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(J) 5 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS – 10' LINE 30' GAP
(K) 12 IN WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS – SOLID
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(M) REMOVABLE PREFORMED PAVEMENT MARKING ARROWS AND SYMBOLS

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MOT PHASE 3

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

REVISIONS

MAINTENANCE OF TRAFFIC PLAN

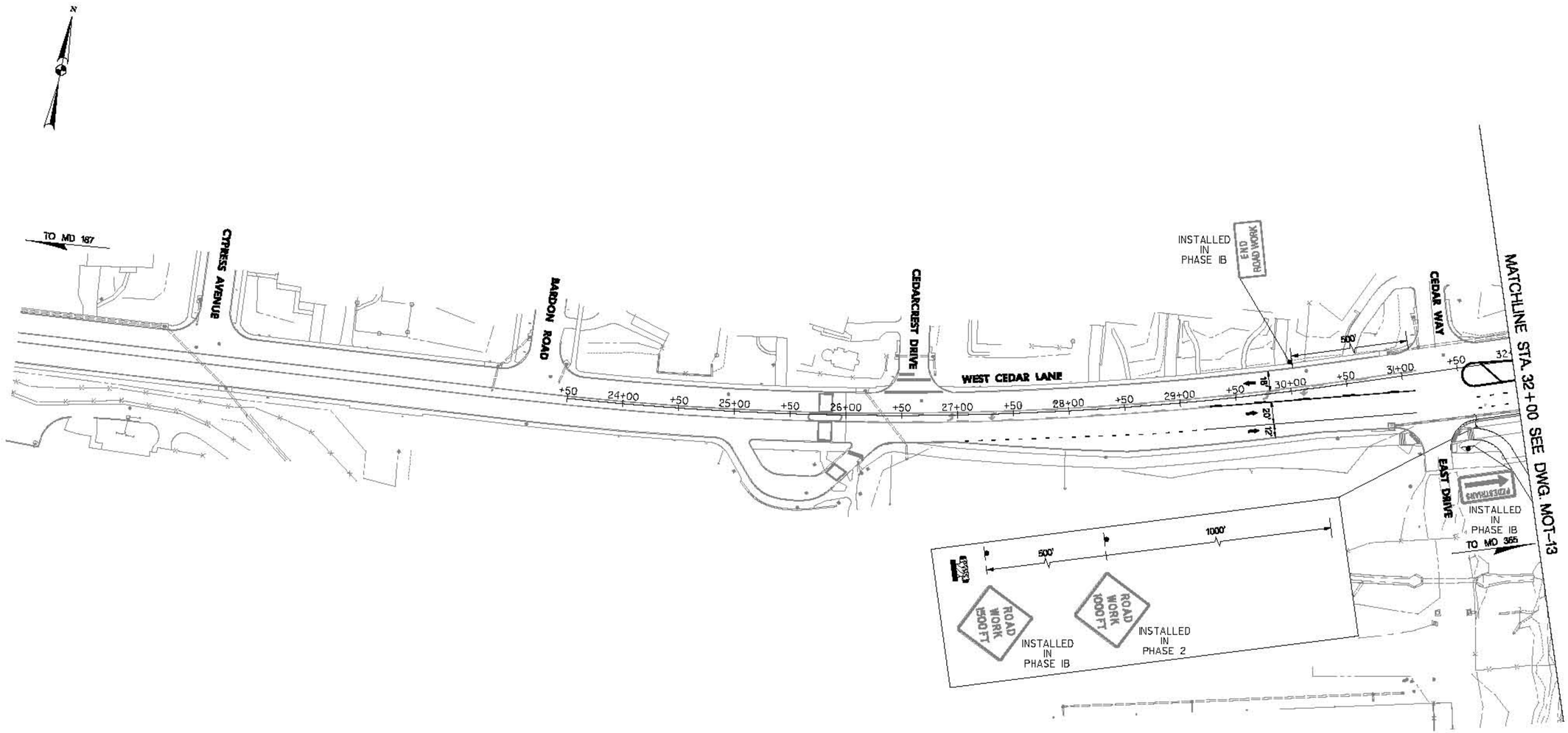
SCALE 1"=50' ADVERTISED DATE APRIL 2010 CONTRACT NO. MO6938270

DESIGNED BY HM
DRAWN BY HM
CHECKED BY S.DU
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. MOT – 13 OF MOT-15
SHEET NO. 51 OF 140

PLOTTED: Thursday, April 01, 2010 AT 03:59 PM
FILE: R:\2008\08 SCS 2008-08A WSGM_CENTURY HWY\Task 41 MD 355 at Cedar Lane\Dwg\MOT\pMT-PH03_MO355CL.dgn

BY: Hmohammed –



MOT PHASE 3

SEMI-FINAL SUBMITTAL
NOT FOR CONSTRUCTION

SYMBOL LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- REMOVAL OF EXISTING PAVEMENT
- TEMPORARY SIGN AND POST
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STATE OF MARYLAND
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STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

REVISIONS

MAINTENANCE OF TRAFFIC PLAN

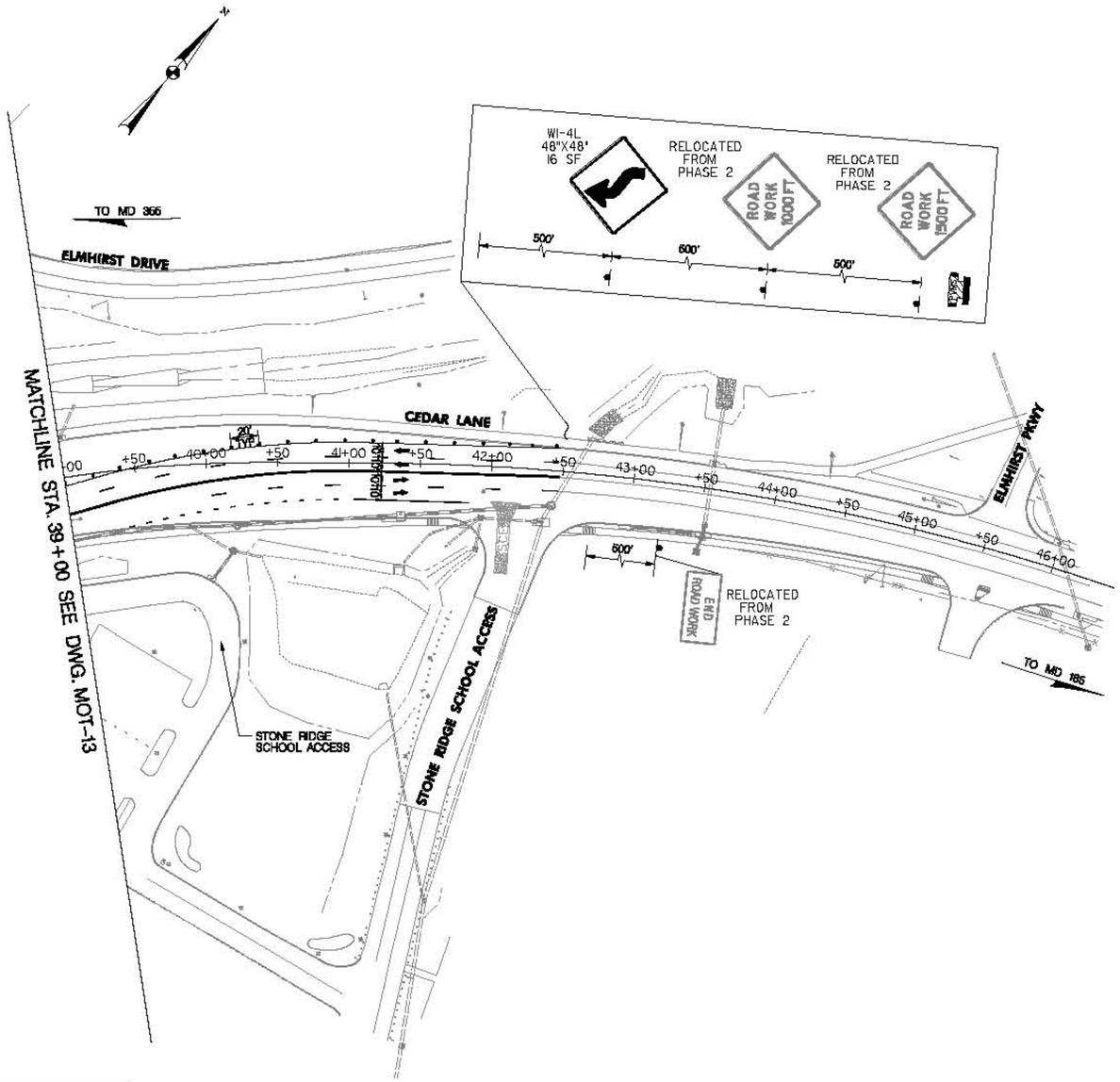
SCALE 1"=50' ADVERTISED DATE APRIL 2010 CONTRACT NO. MO6938270

DESIGNED BY HM
DRAWN BY HM
CHECKED BY S.DU
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. MOT - 14 OF MOT-15
SHEET NO. 52 OF 140

BY: Hmohammed –

PLOTTED: Thursday, April 01, 2010 AT 09:57 PM
FILE: R:\2006\06 SCS 2005-08A WSDOT_CENTURY HWY\Task 41 MD 355 at Cedar Lane\Dwg\MOT\pMT-P003_MD355CL.dgn



SEMI-FINAL SUBMITTAL
NOT FOR CONSTRUCTION

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60' 0 60' 100'
SCALE: 1" = 60'

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MOT PHASE 3

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

REVISIONS

MAINTENANCE OF TRAFFIC PLAN

SCALE 1"=50' ADVERTISED DATE APRIL 2010 CONTRACT NO. MO6928270

DESIGNED BY HM
DRAWN BY HM
CHECKED BY S.DU
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE
HORIZONTAL SCALE
VERTICAL SCALE

DRAWING NO. MOT – 15 OF MOT-15
SHEET NO. 53 OF 140

BY: Hmohammed –

PLOTTED: Thursday, April 01, 2010 AT 03:59 PM
FILE: R:\2006\GR SCS 2005-08A WSDOT_CENTURY HWY\Task 41 MD 355 at Cedar Lane\Dwg\MOT\gMT-F904_MD355CL.dgn

MD 356 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

CONSTRUCTION DETAILS

A. INSTALL 27' STEEL POLE WITH 70' MAST ARM, LED TRAFFIC SIGNAL HEADS,SIGNS, AND 15' LIGHTING ARM WITH 250 WATT HPS LUMINAIRE(NOTE: 1-3" SCHEDULE 80 90° PVC BEND).

B. INSTALL 27' STEEL POLE WITH 38' MAST ARM, LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERAS, SIGNS (NOTE: 1-3" SCHEDULE 80 90° PVC BEND).

C. INSTALL 100 AMP METERED SERVICE PEDESTAL WITH 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED TO THE BASE, PROVIDE 1' STUB AND PULL STRING FOR INSTALLATION OF SERVICE.

D. INSTALL ELECTRICAL HANDHOLE.

E. INSTALL NEMA CONTROLLER WITH ALL NECESSARY EQUIPMENT HOUSED IN A SIZE '6' BASE-MOUNTED CABINET.

F. INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

G. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

H. INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

J. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED

K. EXISTING UTILITY POLE TO BE RELOCATED BY OTHERS, BUT SHALL BE THE SIGNAL SERVICE FEED POLE.

PROPOSED SIGNS

6a 6b

N. Wood DR → ← N. Wood DR

D-3(1) VAR x 15" DUAL FACED

7

YIELD on FLASHING RED ARROW AFTER STOP

R10-12(2) 48" x 36"

VIDEO DETECTION CAMERA

VIDEO DETECTION ZONE

PROPOSED SIGNALS

3 1,2,4,5

R Y G — R Y G

12" 12"

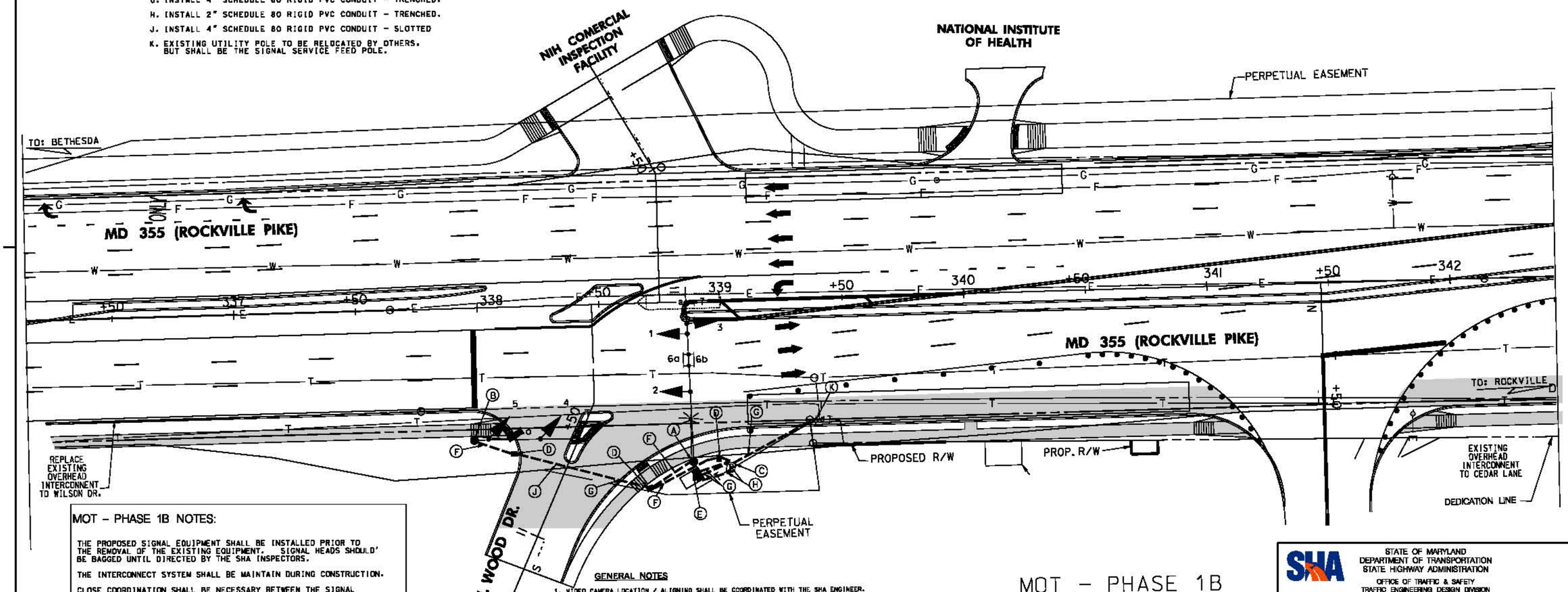
BAG SIGNAL HEADS UNTIL DIRECTED BY SHA INSPECTORS

NEMA PHASING

ø1 ø2 FLASHING OPERATION

1.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

2.) SIGNAL SHALL OPERATE IN AM HOURS ONLY.



MOT - PHASE 1B NOTES:

THE PROPOSED SIGNAL EQUIPMENT SHALL BE INSTALLED PRIOR TO THE REMOVAL OF THE EXISTING EQUIPMENT. SIGNAL HEADS SHOULD' BE BAGGED UNTIL DIRECTED BY THE SHA INSPECTORS.

THE INTERCONNECT SYSTEM SHALL BE MAINTAIN DURING CONSTRUCTION.

CLOSE COORDINATION SHALL BE NECESSARY BETWEEN THE SIGNAL CONTRACTOR AND THE ROADWAY CONTRACTOR.

GENERAL NOTES

1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. FOR FINAL PAVEMENT MARKINGS OTHER THAN THOSE SHWON ON THIS PLAN , REFER TO THE PAVEMENT MARKING PLANS. ALL PAVEMENT MARKINGS DETAILED ARE TO BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
5. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINAL AND PROPERLY LABELING EACH CABLE. MONTGOMERY COUNTY SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING AND SPLICING OF INTERCONNECT CABLES.
7. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING THE PROPOSED SIGNAL EQUIPMENT. IF UTILITY CONFLICTS SHOULD ARISE,THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
8. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS AND THE HIGHEST ROADWAY PROFILE GRADE AND FOR THE OPEN SECTIONS TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL PROPOSED EQUIPMENT.

MOT - PHASE 1B

CENTURY ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

BY: emllesky

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS

MD 355 & N. WOOD DRIVE

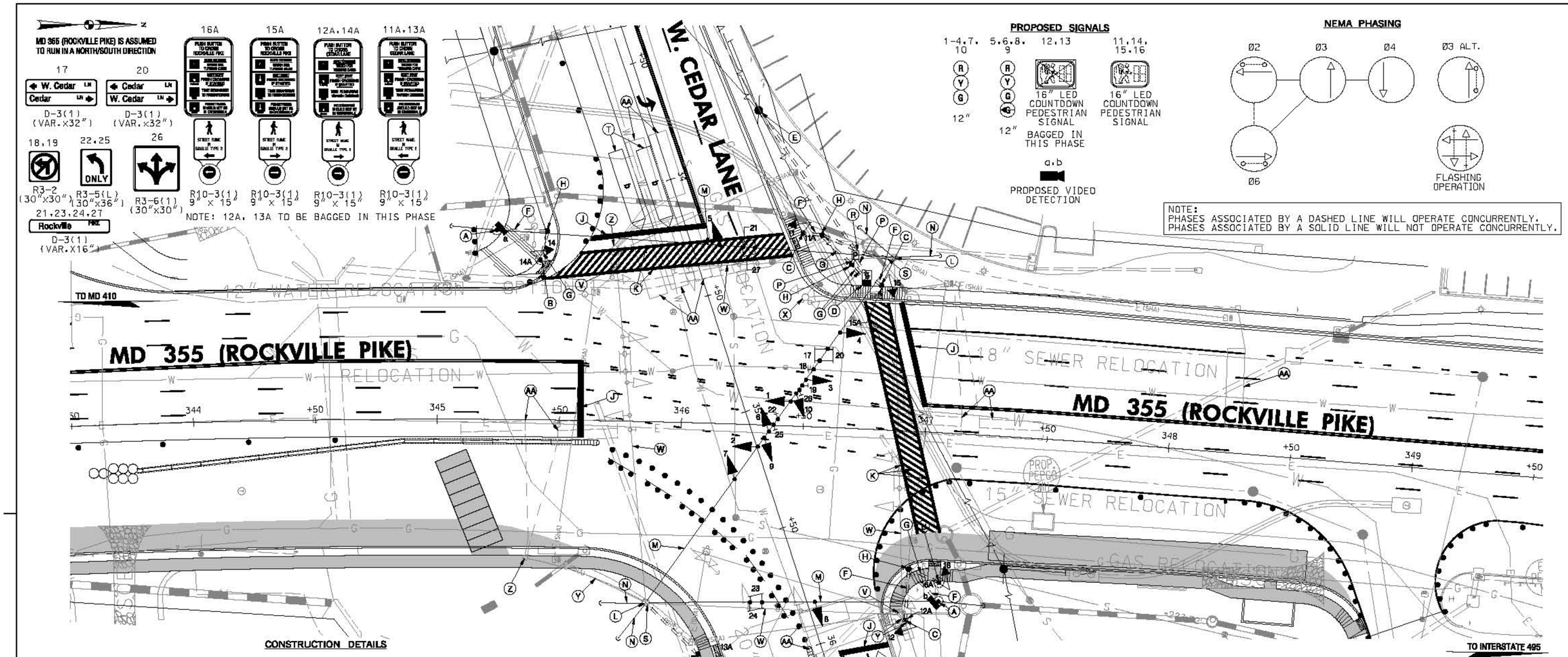
MOT - TRAFFIC SIGNAL PLAN

SCALE 1"=20' DATE 4/2010 CONTRACT NO. MO5955270

DESIGNED BY EMM
DRAWN BY EMM
CHECKED BY NR & MR
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE 15035503.15
TIMS NO. SHA
TOD NO.

TB NO. 4755 | DRAWING SC-03.18 | SHEET NO. 58 OF 140

PLOTTED: Friday, April 09, 2010 AT 03:21 PM
FILE: S:\5038\Transportation\27257-06 BRAC-MD355 @ Cedar Lane\28054.45 Contract IV\CADD\sig-mot 1B_MD355 N. Wood RD.dgn

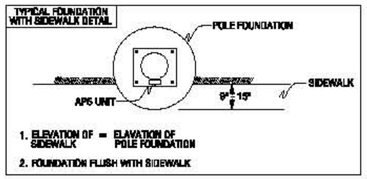


CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH A 14 IN. X 32 FT. (TWO PLY) STEEL STRAIN POLE WITH SPAN WIRE, OVERHEAD VIDEO DETECTION CAMERA, ANCHOR BOLT ASSEMBLY AND 3 IN. WEATHER HEAD. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND)
B. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH 70 FT. MAST ARM (DO NOT ATTACH MAST ARM TO FLANGE OF MAST POLE DURING THIS STAGE OF THE MOT), 16 IN. COUNTDOWN PEDESTRIAN SIGNALS, AUDIBLE/TACTILE PUSHBUTTON STATION WITH INTERNATIONAL BRAILLE ON THE FACE PLATE WITH R10-3(1) SIGN. (NOTE: ONE 4 IN. PVC SCHEDULE 80 CONDUIT BEND)
C. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED COUPLING BREAKAWAY BASE (MD STANDARD 801.01-01), COUNTDOWN PEDESTRIAN SIGNAL, AUDIBLE/TACTILE PUSHBUTTON STATION WITH INTERNATIONAL BRAILLE ON THE FACE PLATE WITH R10-3(1) SIGN. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND)
D. INSTALL A NEMA SIZE 6 BASE MOUNTED CONTROLLER AND CABINET WITH ELECTRICAL UTILITY SERVICE EQUIPMENT FOR UNDERGROUND SERVICE. (NOTE: TWO-4 IN. PVC, AND TWO-2 IN. PVC SCHEDULE 80 CONDUIT BENDS).
E. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT FOR ELECTRICAL SERVICE - TRENCHED. STUB OUT CONDUIT BEND AT BASE OF UTILITY POLE (RELOCATED POLE # NOT AVAILABLE).
F. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
G. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
H. INSTALL HANDHOLE.
J. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE..
K. INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.
L. USE EXISTING STRAIN POLE AND INSTALL PROPOSED SPAN WIRE AND TETHER WIRE AS SHOWN.
M. INSTALL SPAN WIRE WITH 1/4 IN. TETHER WIRE.
N. INSTALL ANCHOR BOLT ASSEMBLY TO EXISTING STRAIN POLE AS SHOWN.
P. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
R. INSTALL 100 AMP EMBEDDED METER SERVICE PEDESTAL.
S. EXCAVATE AND FIND CONDUIT BEND IN EXISTING STRAIN POLE FOUNDATION, BREAK CONDUIT AND SLEEVE A NEW 3 IN. CONDUIT OVER EXISTING PIPE AND TRENCH TO NEW HANDHOLE LOCATION.
T. VIDEO DETECTION ZONE.
U. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH 60 FT. MAST ARM (DO NOT ATTACH MAST ARM TO FLANGE OF MAST POLE DURING THIS STAGE OF THE MOT), 16 IN. COUNTDOWN PEDESTRIAN SIGNALS, AUDIBLE/TACTILE PUSHBUTTON STATION WITH INTERNATIONAL BRAILLE ON THE FACE PLATE WITH R10-3(1) SIGN. (NOTE: ONE 4 IN. PVC SCHEDULE 80 CONDUIT BEND)
V. REMOVE EXISTING POLE AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
W. REMOVE EXISTING SPAN WIRE AND ALL ASSOCIATED EQUIPMENT.
X. REMOVE EXISTING PEDESTAL POLE AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
Y. CAP AND ABANDON EXISTING CONDUIT.
Z. REMOVE EXISTING HANDHOLE COVER AND FRAME 12 IN. BELOW GRADE AND BACKFILL.

CONSTRUCTION DETAILS CONTINUED

AA. ABANDON EXISTING LOOP DETECTORS AND REMOVE ALL CABLE FROM HANDHOLES, CONDUITS AND CABINET.



20' 0 20' 40'
SCALE: 1" = 20'

GEOMETRIC LEGEND

EXISTING
PROPOSED

UTILITY LEGEND

SD	STORM DRAIN
G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
A	AERIAL CABLES
T	TELEPHONE CABLES
F	FIBER-OPTIC

BY: Sdu -

SABRA, WANG & ASSOCIATES, INC.
1504 JOB AVENUE
SUITE 100
BALTIMORE, MD 21227
(410) 737-4080
WWW.SABRA-WANG.COM

APPROVALS
TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
BUREAU DIRECTOR
ORIGINAL ON FILE

REVISIONS
(1) SHA No. M0366270, TMS No. 04/2010
SIGNAL RECONSTRUCT DUE TO GEOMETRICS IMPROVEMENT
SHA
(B) SHA No. 355-2006159 02/02
REVISE PEDESTRIAN SIGNAL AND CROSSWALK LOCATION 160. CEDAR LN.
TC D.D. D.Z. J.P. T.H.
(A) 1/01
INSTALL OP LEFT TURNS AND RED. BUTTONS AND SIGNALS
TC D.D. D.Z. E.T. T.H.

MOT PHASE 1B

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE
BETHESDA, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' ADVERTISED DATE 10/28/01 CONTRACT NO. N/A

DESIGNED BY BRUCE THOMPSON
DRAWN BY BRUCE THOMPSON
CHECKED BY
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE 15/35/14.32
TMS NO.
TOD NO.

TS NO. 3189 C | DRAWING pSG OF P001B | SHEET NO. 60 OF 140

PLOTTED: Friday, April 02, 2010 AT 09:49 AM
FILE: R:\2006\pt 0C3 3005-08A WSDOT_CENTURY HWY\Task 41 MD 355 at Cedar Lane\Dwg\Signal\pSG-P001B_MD0355C.dgn

MD 355 (ROCKVILLE PIKE) IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION

17: W. Cedar / Cedar

20: Cedar / W. Cedar

18,19

22,25 — ONLY

26

21,23,24,27 — Rockville PIKE

EXISTING SIGNS TO REMAIN

16A, 15A, 12A,14A, 11A,13A

EXISTING SIGNALS TO BE RELOCATED

1,2,7 — R Y G — 12"

5,6 — R Y G — 12"

EXISTING SIGNALS TO REMAIN

3,4,10 — R Y G — 12"

8,9 — R Y G — 12"

11-16 — 16" LED COUNTDOWN PEDESTRIAN SIGNAL

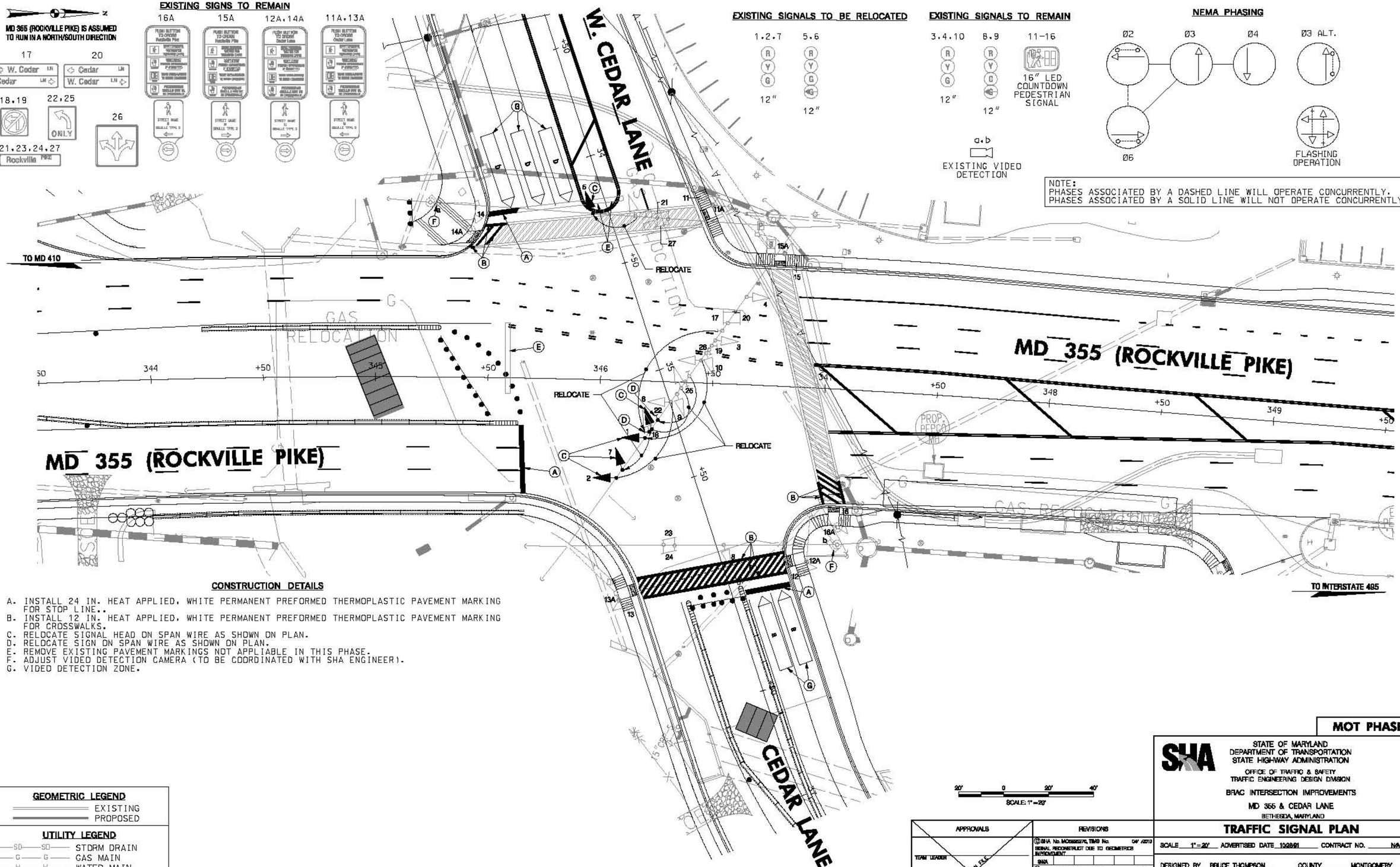
a,b — EXISTING VIDEO DETECTION

NEMA PHASING

Ø2 Ø3 Ø4 Ø6

Ø3 ALT. — FLASHING OPERATION

NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS

A. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE..
B. INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.
C. RELOCATE SIGNAL HEAD ON SPAN WIRE AS SHOWN ON PLAN.
D. RELOCATE SIGN ON SPAN WIRE AS SHOWN ON PLAN.
E. REMOVE EXISTING PAVEMENT MARKINGS NOT APPLIABLE IN THIS PHASE.
F. ADJUST VIDEO DETECTION CAMERA (TO BE COORDINATED WITH SHA ENGINEER).
G. VIDEO DETECTION ZONE.

MOT PHASE 2

GEOMETRIC LEGEND

EXISTING
PROPOSED

UTILITY LEGEND

SD — STORM DRAIN
G — GAS MAIN
W — WATER MAIN
S — SEWER MAIN
E — ELECTRIC CABLES
A — AERIAL CABLES
T — TELEPHONE CABLES
F — FIBER-OPTIC

BY: Sdu –

SABRA, WANG & ASSOCIATES, INC.
1504 JOE AVENUE
SUITE 100
BALTIMORE, MD 21207
(410) 727-6564
WWW.SABRA-WANG.COM

APPROVALS	
TEAM LEADER	ORIGINAL ON FILE
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS

(1) SHA No. MO5952270, TBM3 No. 04/ 4570
SIGNAL RECONSTRUCT DUE TO GEOMETRICS IMPROVEMENT

SHA					
(B)	SHA No. 055-2508158				03/02
REVISE PEDESTRIAN SIGNAL AND CROSSWALK LOCATION WB CEDAR LN.					
TC	D.D.	D.Z		J.P.	T.H.
(A)					11/01
INSTALL 8" LEFT TURNS AND RED. SUTTONS AND SIGNALS					
TC	D.D.	D.Z	E.T.		T.H.

PLOTTED: Friday, April 02, 2010 AT 09:20 AM
FILE: R:\2008\24 DCS 2005-08A WSCM_CENTURY HWY\Task 41 MD 355 at Cedar Lane\Dwg\Signal\pSG-P002_MD355CL.dgn

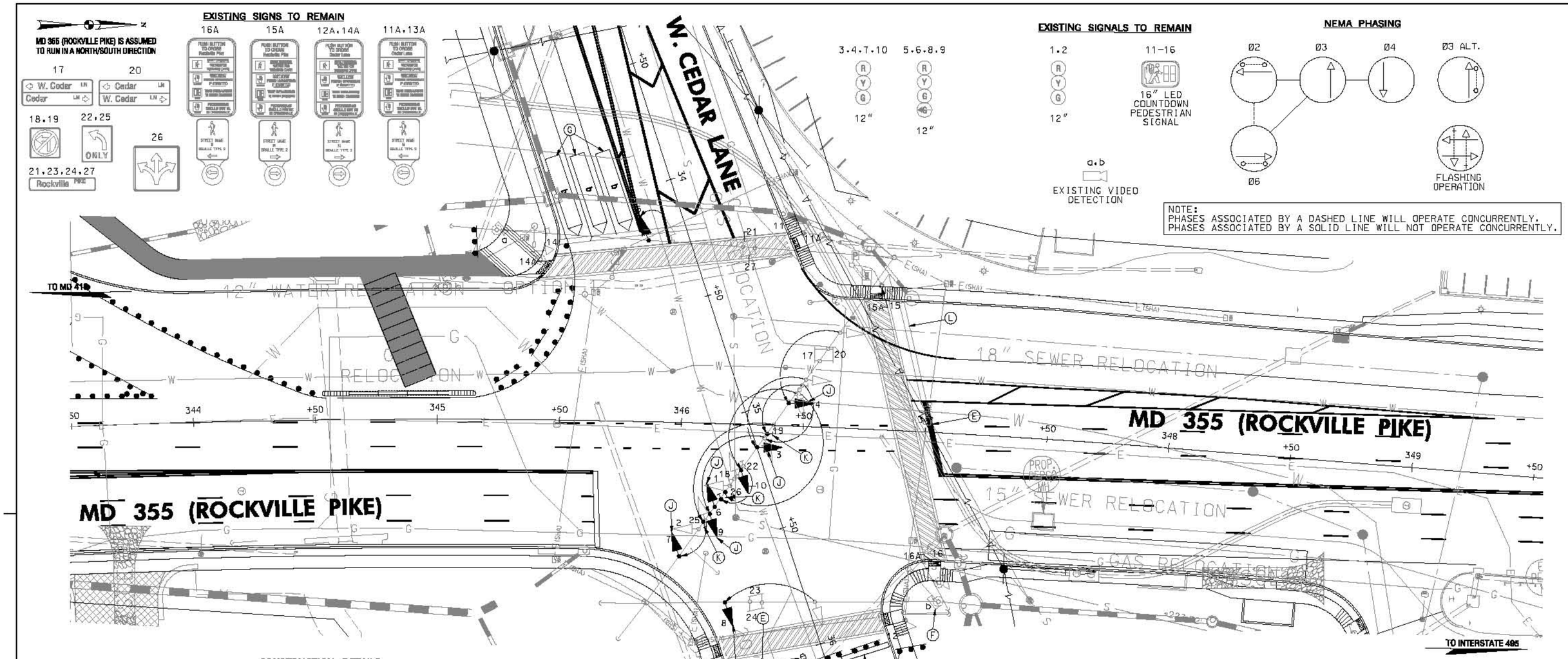
STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS

MD 355 & CEDAR LANE
BETHESDA, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1" = 20'	ADVERTISED DATE 10/28/01	CONTRACT NO. N/A	
DESIGNED BY BRUCE THOMPSON		COUNTY MONTGOMERY	
DRAWN BY BRUCE THOMPSON		LOGMILE 15/035514.32	
CHECKED BY		TIMS NO.	
F.A.P. NO. SEE TITLE SHEET		TOD NO.	
TS NO. 3189 C	DRAWING pSG	OF P002	SHEET NO. 62 OF 140



CONSTRUCTION DETAILS

A. NOT USED.
B. NOT USED..
C. NOT USED.
D. NOT USED.
E. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE..
F. ADJUST VIDEO DETECTION CAMERA (TO BE COORDINATED WITH SHA ENGINEER).
G. VIDEO DETECTION ZONE.
H. NOT USED.
J. RELOCATE SIGNAL HEAD ON SPAN WIRE AS SHOWN ON PLAN.
K. RELOCATE SIGN ON SPAN WIRE AS SHOWN ON PLAN.
L. REMOVE EXISTING PAVEMENT MARKINGS NOT APPLICABLE FOR THIS PHASE.

MOT PHASE 3

20' 0 20' 40'
SCALE: 1" = 20'

GEOMETRIC LEGEND

EXISTING
PROPOSED

UTILITY LEGEND

SD	STORM DRAIN
G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
A	AERIAL CABLES
T	TELEPHONE CABLES
F	FIBER-OPTIC

BY: Sdu –

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APPROVALS	
TEAM LEADER	ORIGINAL ON FILE
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS

C	SHA No. MO5992370, TMS No. 04-0370 SIGNAL REDONSTRUCT DUE TO GEOMETRICS IMPROVEMENT				
	SHA				
B	SHA No. 355-2008158				03-02
	REVISE PEDESTRIAN SIGNAL AND CROSSWALK LOCATION WB CEDAR LN.				
	TC	D.D.	D.Z.		J.P. T.H.
A					11-01
	INSTALL 8" LEFT TURNS AND RED. BUTTONS AND SIGNALS				
	TC	D.D.	D.Z.	E.T.	T.H.

PLOTTED: Friday, April 02, 2010 AT 09:09 AM
FILE: R:\2008\24 DCS 2005-08A WSCM_CENTURY HWY\Task 41 MD 355 at Cedar Lane\Dwg\Signal\pSG-F003_MD355CL.dgn

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

BRAC INTERSECTION IMPROVEMENTS

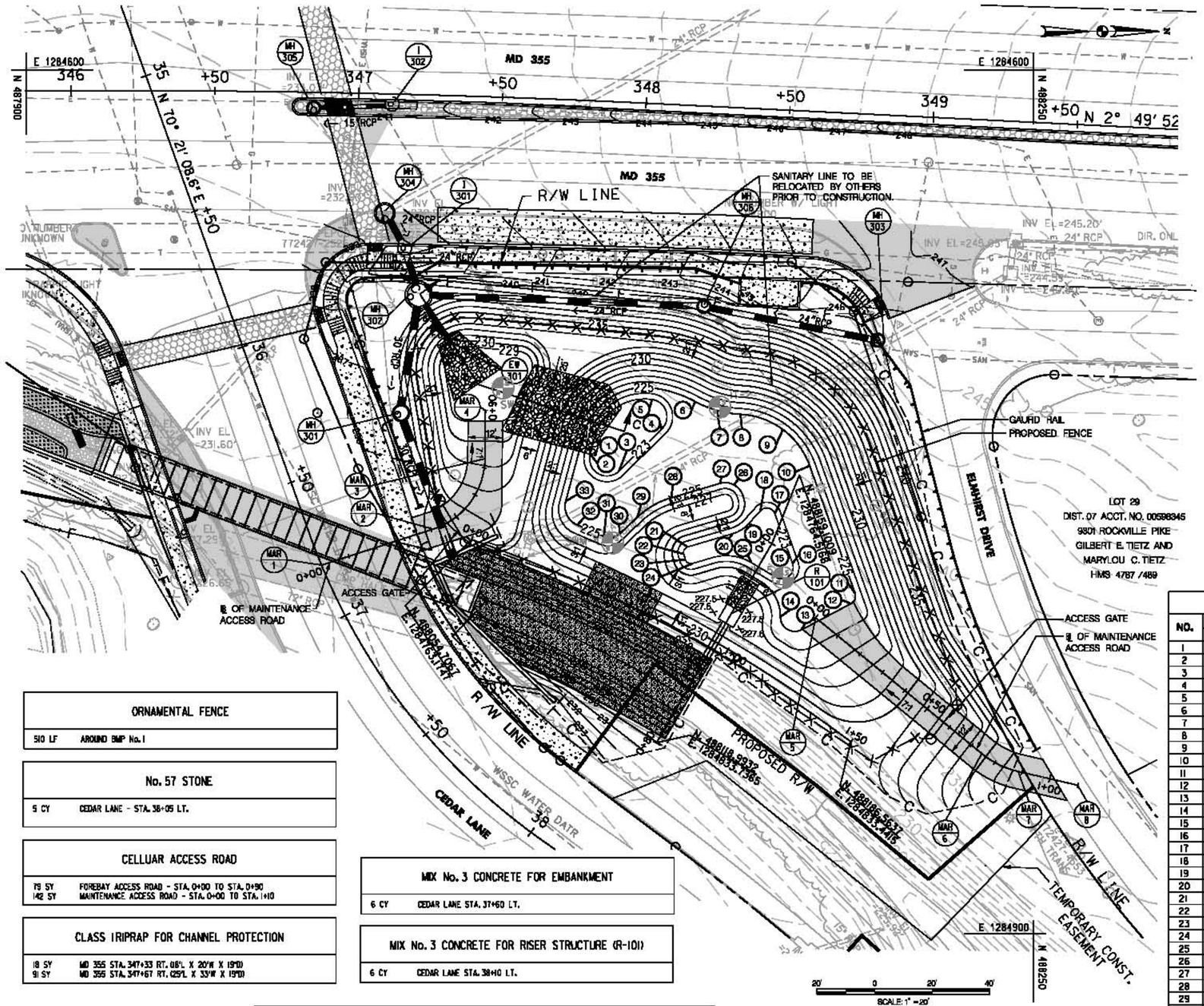
MD 355 & CEDAR LANE
BETHESDA, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"=20' ADVERTISED DATE 102591 CONTRACT NO. N/A

DESIGNED BY BRUCE THOMPSON
DRAWN BY BRUCE THOMPSON
CHECKED BY
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE 15.02/5.514.32
TIMS NO.
TOD NO.

TS NO. 2189 C | DRAWING pSG OF F003 | SHEET NO. 64 OF 140



POND CONSTRUCTION CHECKLIST

ACTIVITY	ON SITE INSPECTION DATE	INSPECTOR INITIALS	ACCEPTANCE DATE
Runoff diverted			
Drainage area stabilized prior to conversion from sediment basin, if applicable			
Facility area cleared/Subgrade prepared			
Facility location staked out			
Pipe spillway installed properly with correct elevation, grade and watertight connections*			
Core trench (if required) has correct dimensions and compaction rate*			
Anti-seep collars or diaphragms properly installed*			
Riser located within embankment			
Riser placed on dry and stable subgrade to design elevation			
Diameter and material of pipe as designed*			
Required dimensions between water control structures (orifices, weirs, etc.) as designed			
Low-Flow Orifice adequately protected from clogging by an external trash rack or other device			
Diameter may be reduced by 1 inch if internal orifice is used			
Proper fill material and compaction constructed for embankment*			
Embankment has correct side slopes, top width, and design elevation (plus allowance for settlement)*			
Inlet pipes have outfall protection			
Forebay(s) constructed as designed			
2 pond benches constructed with combined minimum width of 15 ft. (as shown on plans)			
Emergency spillway constructed to proper cross-section, side slopes, bottom width and elevation			
Outfall securely in place and properly backfilled.*			
Filter fabric in place (Class "SE" or better)			
Apron/channel excavated to design cross-section			
Riprap placed as designed with proper size and thickness			
Trash rack device secured to outlet structure			
Riser opening do not permit unauthorized access			
Access road constructed according to plan and details			
No woody vegetation installed on embankment or within 15 ft. of embankment toe			
No woody vegetation installed within 25 ft. of riser or weir structure			
Proper landscaping as designated on plans			
Pond drain installed (waived for Eastern Shore)			
Final grading and permanent stabilization completed*			
As-built documentation			
Minimum 50% survival rate of wetland plantings 1 year after installation (710.03.06)*			

* A B Inspector required to perform inspection on site for these steps as required by COMAR 26.17.02.10

FACILITY GRADING TABLE

NO.	COORDINATES NORTH	COORDINATES EAST	ELEV.
1	1284727.6722	488097.5243	223.0
2	1284733.5263	488095.9576	223.0
3	1284739.3514	488105.9647	223.0
4	1284724.7196	488120.8150	223.0
5	1284714.5055	488117.4497	223.0
6	1284715.2309	488132.4604	225.0
7	1284718.3089	488140.0692	225.0
8	1284719.6338	488148.1693	225.0
9	1284724.9394	488162.9140	225.0
10	1284737.5407	488172.2287	225.0
11	1284781.7734	488187.9809	225.0
12	1284785.4332	488186.5546	225.0
13	1284794.4985	488169.3718	225.0
14	1284790.0045	488162.0392	225.0
15	1284776.2505	488160.4460	223.0
16	1284771.4761	488166.2680	223.0
17	1284754.1831	488160.1096	223.0
18	1284753.1741	488155.0613	223.0
19	1284757.6571	488150.9953	223.0
20	1284761.1087	488145.4893	223.0
21	1284765.7125	488129.8198	223.0
22	1284768.1951	488128.4647	223.0
23	1284770.1140	488129.0284	225.0
24	1284771.4691	488131.5111	223.0
25	1284771.1617	488151.9413	225.0
26	1284744.1978	488145.9466	225.0
27	1284743.6668	488141.0002	225.0
28	1284748.6385	488124.0784	225.0
29	1284755.3955	488112.3237	225.0
30	1284761.1933	488106.1950	225.0
31	1284762.1240	488100.7144	225.0
32	1284758.0952	488091.4777	225.0
33	1284749.8418	488087.4503	225.0

STORMWATER MANAGEMENT AS-BUILT CERTIFICATION

I hereby certify that the stormwater management facility (facilities) shown on the plans and individually identified below has (have) been constructed in accordance with the plans included under the Maryland Department of the Environment Approval, Number __-SF-__ except as noted in green on the "AS BUILT" drawings. Furthermore, the green-noted exceptions do not adversely affect the design and/or the intended performance of the facility (facilities).

Facility Identification (Identify Each Facility Individually by BMP Number)

Name (Printed) Signature

Maryland Registration Number Date

"Certify" means to state or declare a professional opinion based on sufficient and appropriate onsite inspections and material tests conducted during construction

NOTE: AS-BUILT CHECKLISTS CONTAINED IN THE CONTRACT DRAWINGS SHALL BE COMPLETED BY THE AS-BUILT INSPECTOR AND SUBMITTED TO THE SHA ALONG WITH THIS CERTIFICATION.

ORNAMENTAL FENCE

510 LF	AROUND BMP No. 1

No. 57 STONE

5 CY	CEDAR LANE - STA. 38+05 LT.

CELLUAR ACCESS ROAD

79 SY	FOREBAY ACCESS ROAD - STA. 0+00 TO STA. 0+90
142 SY	MAINTENANCE ACCESS ROAD - STA. 0+00 TO STA. 1+10

CLASS I RIPRAP FOR CHANNEL PROTECTION

18 SY	MD 355 STA. 347+33 RT. 68'L X 20'W X 19"D
91 SY	MD 355 STA. 347+67 RT. 225'L X 33'W X 19"D

MIX No. 3 CONCRETE FOR EMBANKMENT

6 CY	CEDAR LANE STA. 37+60 LT.

MIX No. 3 CONCRETE FOR RISER STRUCTURE (R-101)

6 CY	CEDAR LANE STA. 38+10 LT.

CENTERLINE OF MAINTENANCE ACCESS ROAD

MAR NO.	POINT	STATION	COORDINATES NORTH	COORDINATES EAST
1	POB	0+00.00 FOREBAY ACCESS ROAD	488002.5738	1284772.0387
2	PC	0+40.75 FOREBAY ACCESS ROAD	488041.3563	1284759.5203
3	PT	0+73.19 FOREBAY ACCESS ROAD	488059.3681	1284735.0611
4	POB	0+90.00 FOREBAY ACCESS ROAD	488007.3564	1284740.1353
5	POB	0+00.00 MAINTENANCE ACCESS ROAD	488174.3036	1284790.3179
6	PC	0+74.57 MAINTENANCE ACCESS ROAD	488232.0404	1284837.5113
7	PT	0+88.74 MAINTENANCE ACCESS ROAD	488244.6479	1284843.7060
8	POB	1+10.00 MAINTENANCE ACCESS ROAD	488265.3561	1284848.5143

BOTTOM CUTOFF WALL FOR CLASS I RIPRAP

10 LF	MD 355 STA. 347+35 RT.
20 LF	MD 355 STA. 347+67 RT.

CLAY LINEAR FOR STORMWATER MANAGEMENT

1600 SY	BMP No. 1

CENTURY ENGINEERING
CONSULTING ENGINEERS – PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

BY: jawarski

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY HYDRAULICS DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

STORMWATER MANAGEMENT PLAN SHEET

SCALE 1" = 20' ADVERTISED DATE MARCH, 2010 CONTRACT NO. M0693270

DESIGNED BY MRJ COUNTY MONTGOMERY
DRAWN BY MRJ LOGMILE
CHECKED BY MDB HORIZONTAL SCALE
F.A.P. NO. SEE TITLE SHEET VERTICAL SCALE

DRAWING NO. SW - 1 OF 4 SHEET NO. 66 OF 140

PLOTTED: Wednesday, April 14, 2010 AT 09:50 AM
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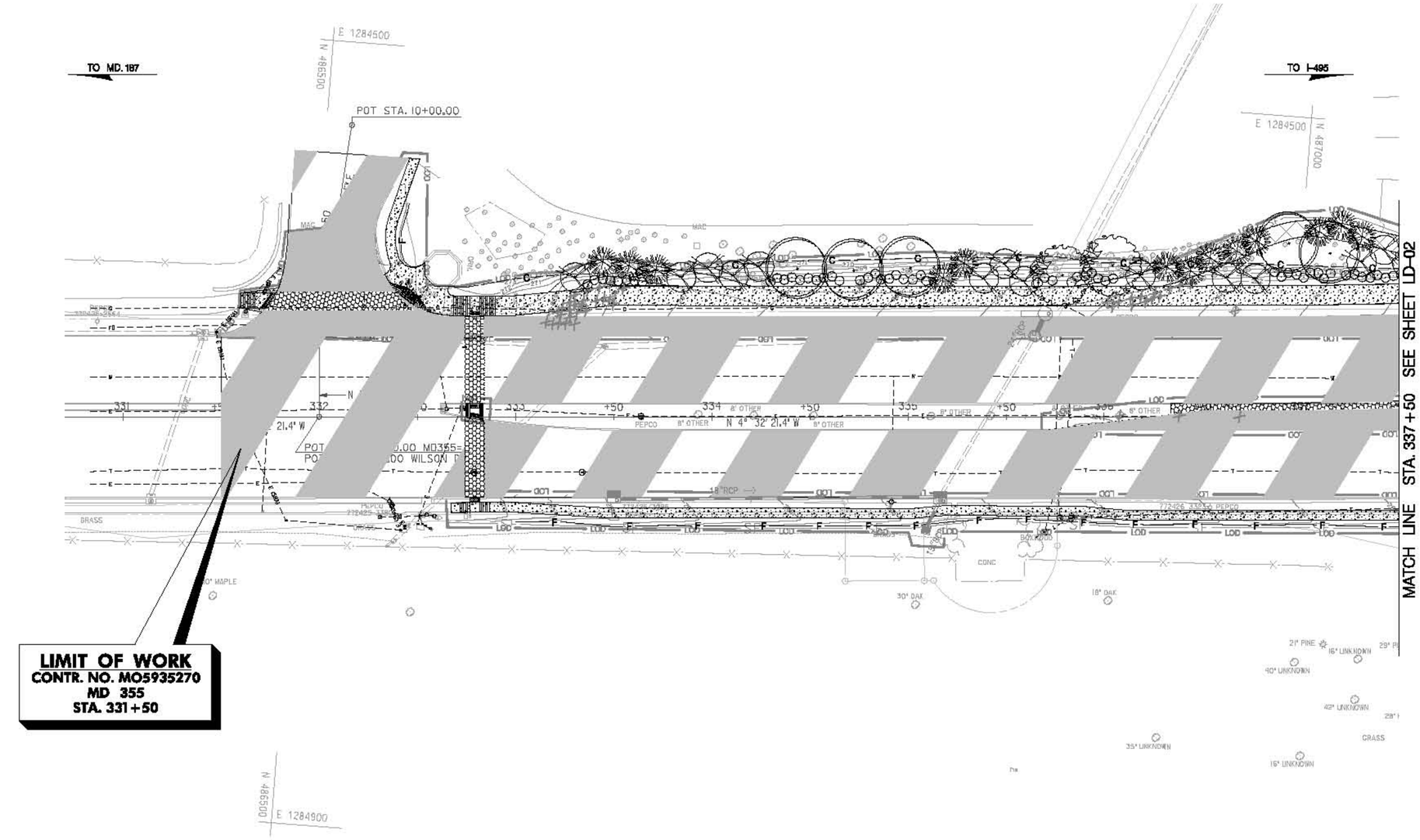

SCALE: 1"=30'

THIS SHEET FOR PLANTING PURPOSES ONLY

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
LANDSCAPE ARCHITECTURE DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

REVISIONS

LANDSCAPE PLAN

SCALE 1" = 30' ADVERTISED DATE _____ CONTRACT NO. MO5935270

DESIGNED BY CSD
DRAWN BY CSD
CHECKED BY JRP
F.A.P. NO. SEE TITLE SHEET

COUNTY MONTGOMERY
LOGMILE

DRAWING NO. LD-01 OF 09 SHEET NO. 94 OF 140

PLOTTED: Thursday, April 01, 2010 AT 01:17 PM
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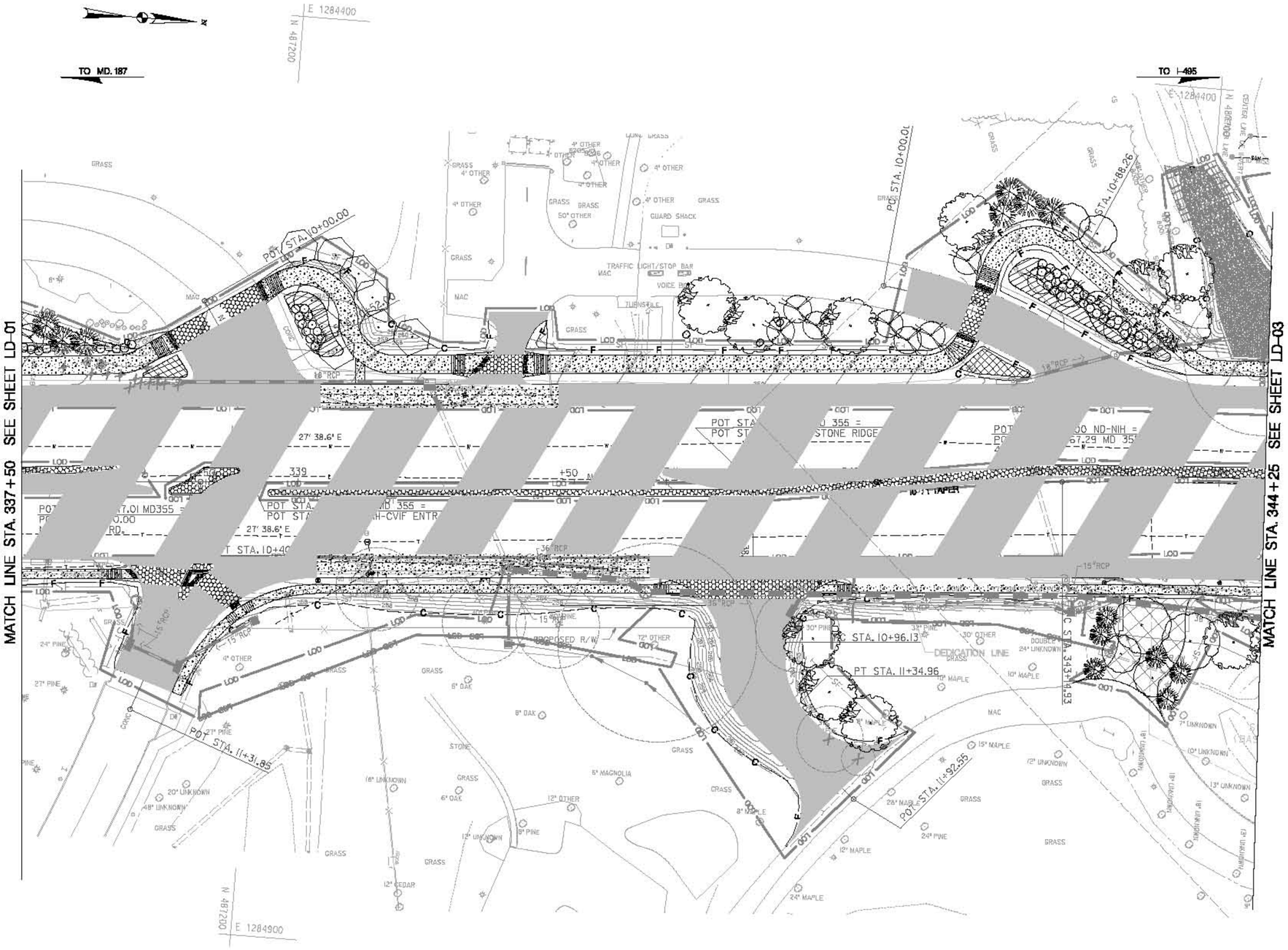
BY: CDalton5 -



30' 0 30' 60'
SCALE: 1"=30'

THIS SHEET FOR PLANTING PURPOSES ONLY

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
LANDSCAPE ARCHITECTURE DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

REVISIONS

LANDSCAPE PLAN

SCALE _____ ADVERTISED DATE _____ CONTRACT NO. MD5696270

DESIGNED BY CSD
DRAWN BY CSD
CHECKED BY JRP
F.A.P. NO. SEE TITLE SHEET

COUNTY MONTGOMERY
LOGMILE _____

DRAWING NO. LD-02 OF 09 SHEET NO. 95 OF 140

PLOTTED: Thursday, April 01, 2010 AT 01:19 PM
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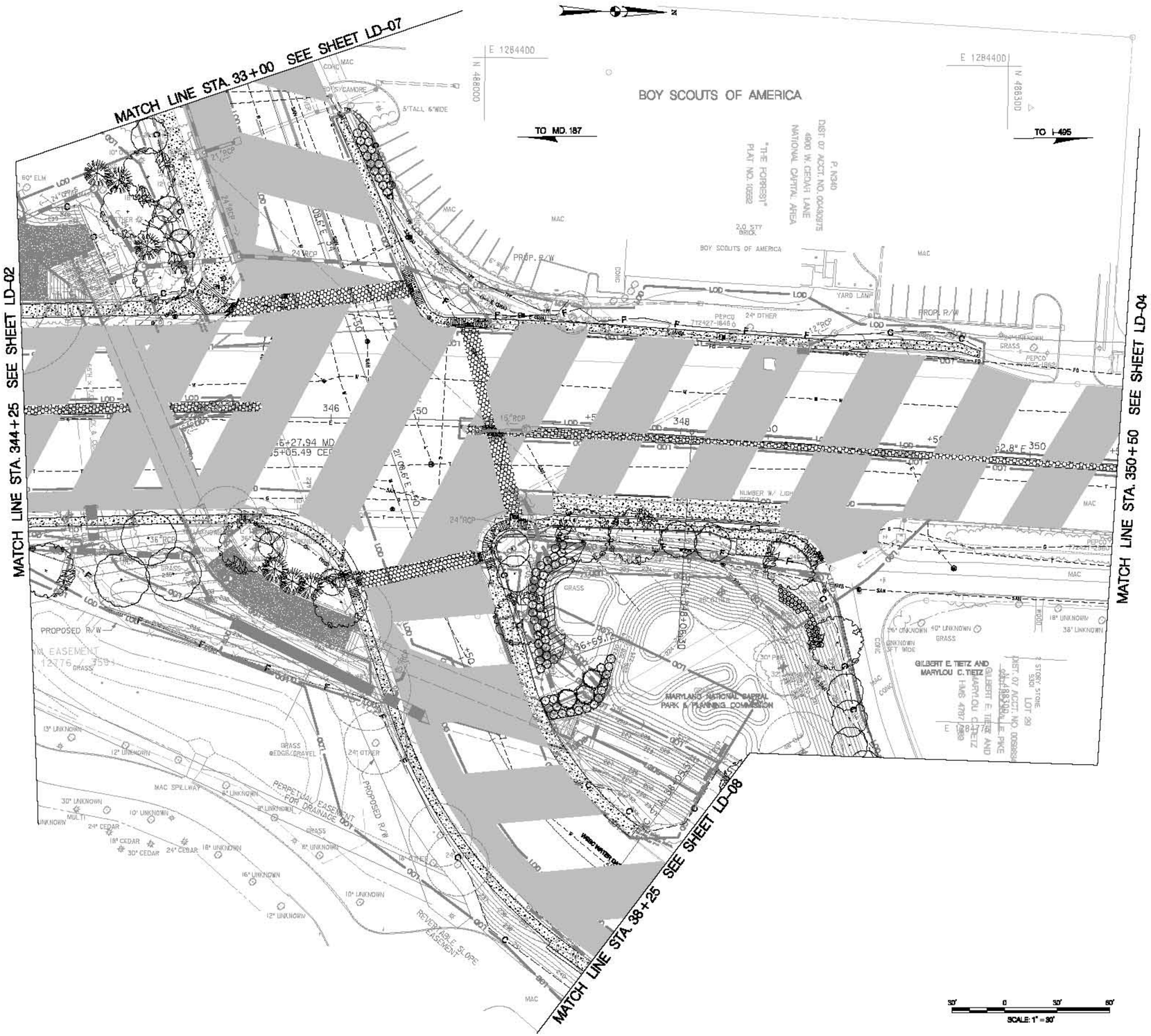
BY: CDalton5 -



THIS SHEET FOR PLANTING PURPOSES ONLY

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
LANDSCAPE ARCHITECTURE DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

REVISIONS

LANDSCAPE PLAN

SCALE _____ ADVERTISED DATE _____ CONTRACT NO. MD5695270

DESIGNED BY CSD
DRAWN BY CSD
CHECKED BY JRP
F.A.P. NO. SEE TITLE SHEET

COUNTY MONTGOMERY
LOGMILE

DRAWING NO. LD-03 OF 09 SHEET NO. 96 OF 140

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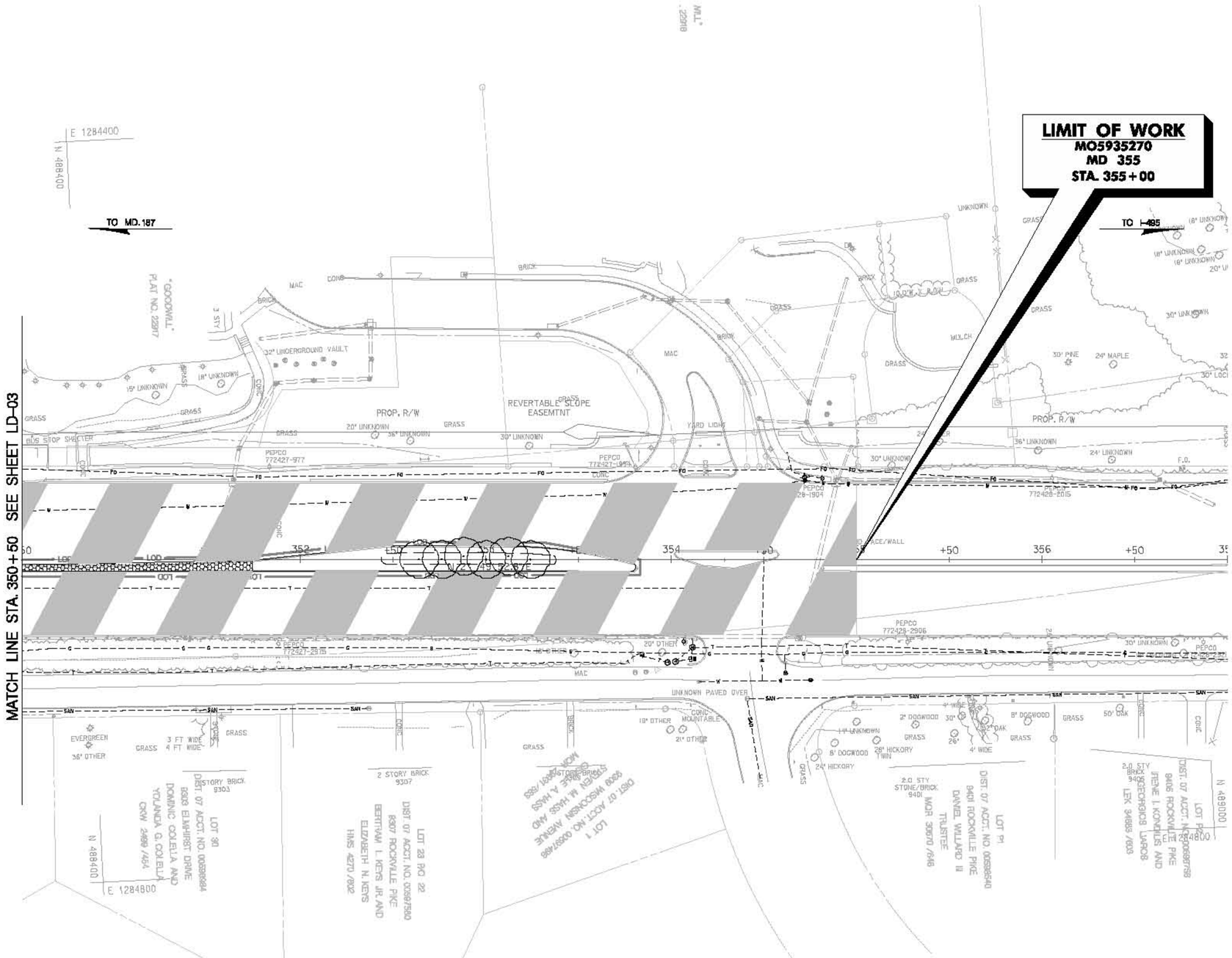
BY: CDalton5 –



THIS SHEET FOR PLANTING PURPOSES ONLY

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
LANDSCAPE ARCHITECTURE DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

REVISIONS

LANDSCAPE PLAN

SCALE: ADVERTISED DATE: CONTRACT NO. MO5935270

DESIGNED BY CSD
DRAWN BY CSD
CHECKED BY JRP
F.A.P. NO. SEE TITLE SHEET

COUNTY MONTGOMERY
LOGMILE

DRAWING NO. LD-04 OF 09

SHEET NO. 97 OF 140

PLOTTED: Monday, April 05, 2010 AT 10:05 AM
FILE: n:\pwcadd\cdalton5\ch1572\ld\pLD-F009_MO5935CL.dgn

BY: CDalton5 -

TO MD. 187

TO MD. 355

BLOCK F LOT 1
DIST. 07 ACCT. NO. 0042032 7
9201 CEDARCREST DRIVE
THE FOCOLARE MOVEMENT
WOMEN'S BRANCH
MQR 19887 /247

BLOCK F LOT 22
DIST. 07 ACCT. NO. 00432828
5013 CEDAR LANE
ROBERT S. FARROW AND
ELAINE A. KING
MQR 21376 /483

BLOCK F LOT 21
DIST. 07 ACCT. NO. 00416178
5009 CEDAR LANE
BETHESDA PROPERTIES, LLC.
MQR 21120 /423

BLOCK F LOT 20
DIST. 07 ACCT. NO. 00428870
5005 W. CEDAR LANE
RONALD A. WOODWARD
TRUSTEE
MQR 32498 /234

BLOCK F LOT 19
DIST. 07 ACCT. NO. 00435113
5001 CEDAR LANE
DANA H. HAMBLEN AND
SELENIA HAMBLEN
HMS 6454 /

BLOCK F LOT 1
DIST. 07 ACCT. NO. 00421242
4905 W. CEDAR LANE
ENRIQUE ABRAHAM GELBARD AND
MARIA SUSANA REDONDO ET. AL.
MQR 27218 /895

PT. STA. 30+47.62

MATCH LINE STA. 33+00 SEE SHEET LD-03

N 487850

E 1283800

N 487500

E 1283800

LIMIT OF WORK
CONTR. NO. MO5935270
WEST CEDAR LANE
STA. 26+00

SCALE: 1" = 30'

THIS SHEET FOR PLANTING PURPOSES ONLY

BY: CDalton5 -

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
LANDSCAPE ARCHITECTURE DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

REVISIONS

LANDSCAPE PLAN

SCALE ____ ADVERTISED DATE ____ CONTRACT NO. MO5935270

DESIGNED BY CSD
DRAWN BY CSD
CHECKED BY JRP
F.A.P. NO. SEE TITLE SHEET

COUNTY MONTGOMERY
LOGMILE

DRAWING NO. LD-05 OF 09

SHEET NO. 96 OF 140

PLOTTED: Monday, April 05, 2010 AT 10:01 AM
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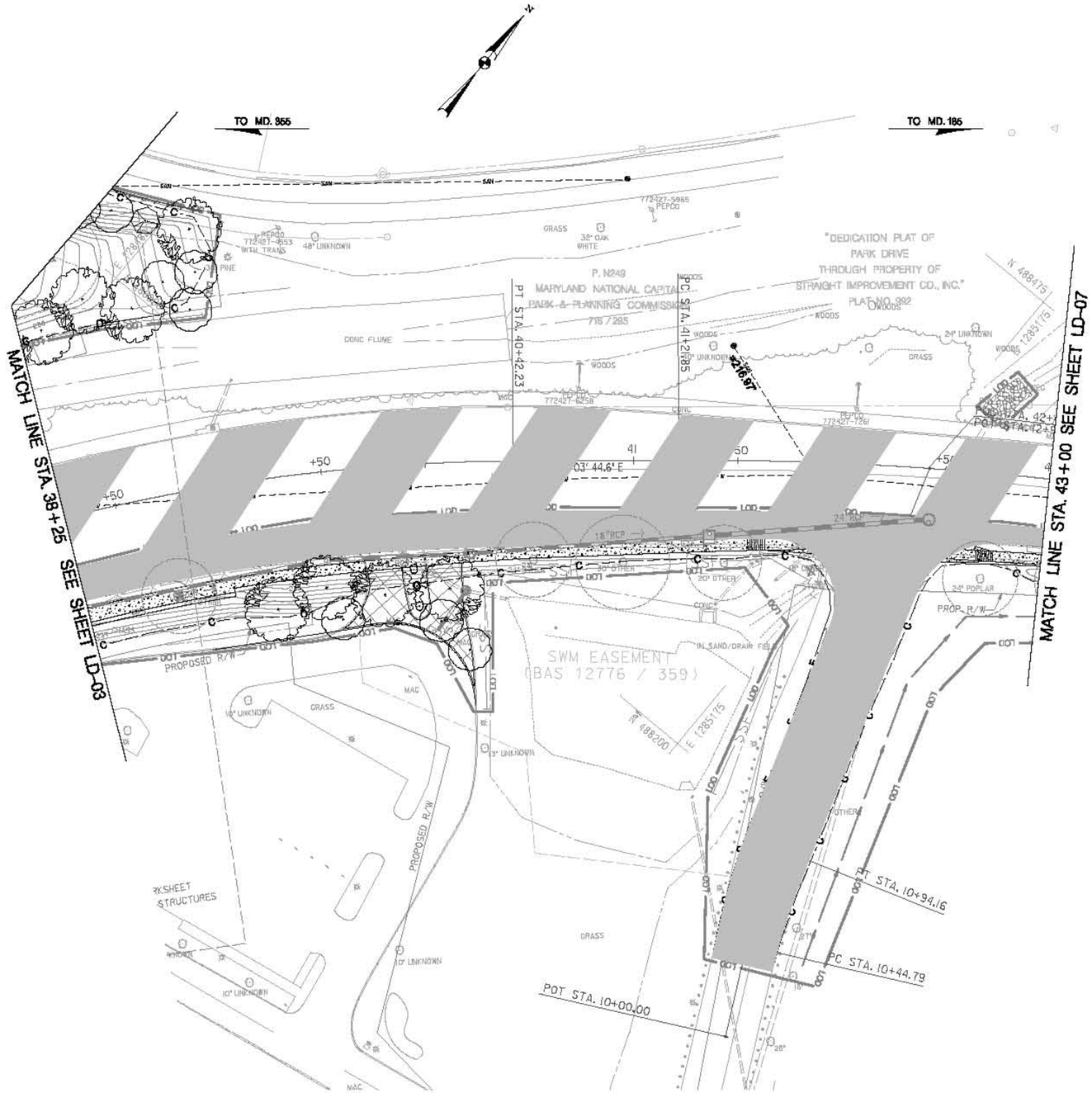

30' 0 30' 60'
SCALE: 1" = 30'

THIS SHEET FOR PLANTING PURPOSES ONLY

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
LANDSCAPE ARCHITECTURE DIVISION

BRAC INTERSECTION IMPROVEMENTS
MD 355 & CEDAR LANE

REVISIONS

LANDSCAPE PLAN

SCALE 1 ADVERTISED DATE _____ CONTRACT NO. MD5695270

DESIGNED BY CSD
DRAWN BY CSD
CHECKED BY JRP
F.A.P. NO. SEE TITLE SHEET

COUNTY MONTGOMERY
LOGMILE _____

DRAWING NO. LD-06 OF 09 SHEET NO. 99 OF 140

PLOTTED: Monday, April 05, 2010 AT 10:04 AM
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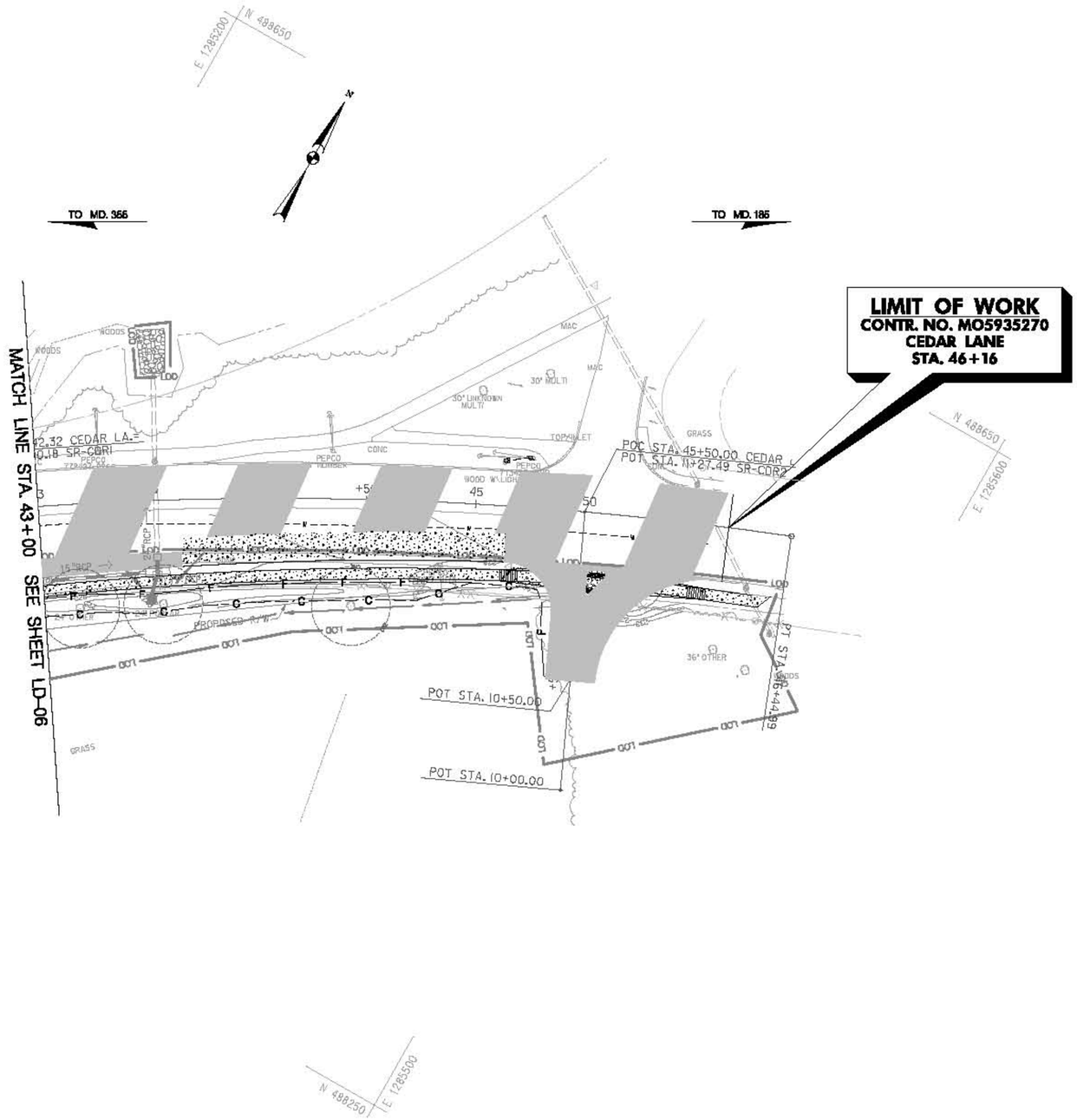
BY: CDalton5 -



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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
LANDSCAPE ARCHITECTURE DIVISION

BRAC INTERSECTION IMPROVEMENTS
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DRAWING NO. LD-07 OF 09

SHEET NO. 100 OF 140

PLOTTED: Thursday, April 01, 2010 AT 01:05 PM
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