15812.15_HD(TITLE).DWG Plotted on 12-Feb-2026 2:44 PM

# ADAMS CIRCLE
# ROADWAY RECONSTRUCTION & UTILITY IMPROVEMENTS

## DEVENS (HARVARD), MA

## WORCESTER COUNTY

PREPARED FOR

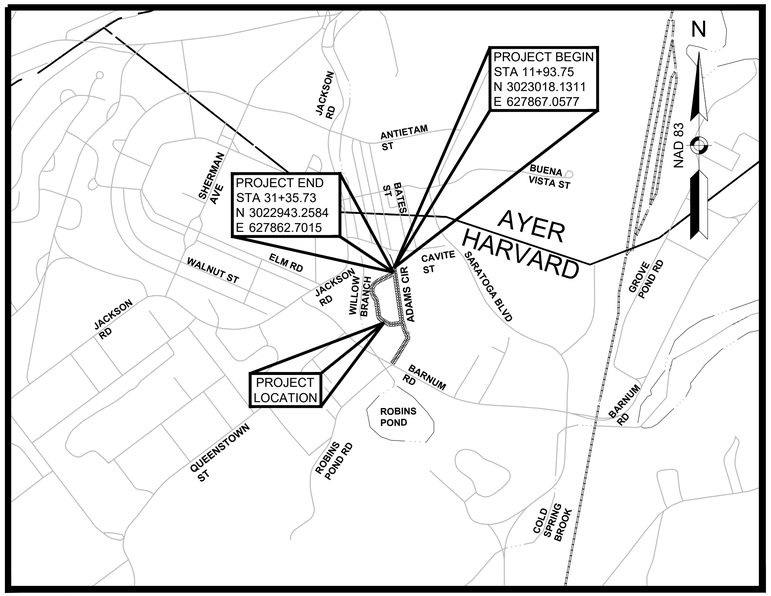
## MASSACHUSETTS DEVELOPMENT FINANCE AGENCY

PROJECT NO. 15812.15

THESE PLANS ARE SUPPLEMENTED BY THE LATEST EDITIONS OF THE FOLLOWING PUBLICATIONS, AS IDENTIFIED IN THE CONTRACT SPECIAL PROVISIONS: THE MASSDOT CONSTRUCTION STANDARD DETAILS, THE MASSDOT STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE MASSDOT STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, THE MASSDOT OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, THE MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, AND THE ANSI AMERICAN STANDARD FOR NURSERY STOCK.

### INDEX






0 1000 2000 3000 4000

SCALE: 1" = 1000'

LENGTH OF PROJECT = 1942 FEET = 0.368 MILES

| DESIGN DESIGNATION (ADAMS CIRCLE) | |
|---|---|
| **DESIGN SPEED** | **30 MPH** |
| FUNCTIONAL CLASSIFICATION | LOCAL |

| | | |
|---|---|---|
| 2/13/2026 | FINAL PLANS | 2 |
| 1/13/2026 | PRELIMINARY PLANS | 1 |
| 11/21/2025 | PRELIMINARY PLANS | 0 |
| DATE | DESCRIPTION | REV # |

OWNER:

Mass Development Finance Agency
33 Andrews Parkway
Devens, MA 01434

ENGINEER:

**Vanasse Hangen Brustlin, Inc.**
120 Front Street, Suite 500
Worcester, MA 01608
508.752.1001 FAX 508.752.1276

| | | |
|---|---|---|
| DESIGNED BY PJB | APPROVED BY GR | SHEET 1 OF 39 |
| DRAWN BY YKA | DFTG CHECKED BY SG | VHB CAD FILE NAME 15812.15_HD(TITLE).dwg |
| CHECKED BY CAC/ELT | DATE FEBRUARY 2026 | JOB NO. 15812 |

## GENERAL SYMBOLS

| EXISTING | PROPOSED | DESCRIPTION |
|---|---|---|
| JB | JB | JERSEY BARRIER |
| CB | CB | CATCH BASIN |
| | | CATCH BASIN CURB INLET |
| FP | FP | FLAG POLE |
| GP | GP | GAS PUMP |
| MB | MB | MAIL BOX |
| | | POST SQUARE |
| | | POST CIRCULAR |
| WELL | WELL | WELL |
| EHH | EHH | ELECTRIC HANDHOLE |
| | | FENCE GATE POST |
| GG | GG | GAS GATE |
| BHL # | BHL # | BORING HOLE |
| MW # | MW # | MONITORING WELL |
| TP # | TP # | TEST PIT |
| | | HYDRANT |
| | | LIGHT POLE |
| CO.BD. | | COUNTY BOUND |
| | | GPS POINT |
| C | C | CABLE MANHOLE |
| D | D | DRAINAGE MANHOLE |
| E | E | ELECTRIC MANHOLE |
| G | G | GAS MANHOLE |
| M | M | MISC MANHOLE |
| S | S | SEWER MANHOLE |
| T | T | TELEPHONE MANHOLE |
| W | W | WATER MANHOLE |
| MHB | MHB | MASSACHUSETTS HIGHWAY BOUND |
| MON | | MONUMENT |
| SB | | STONE BOUND |
| TB | | TOWN OR CITY BOUND |
| | | TRAVERSE OR TRIANGULATION STATION |
| TPL or GUY | TPL or GUY | TROLLEY POLE OR GUY POLE |
| HTP | | TRANSMISSION POLE |
| UFB | UFB | UTILITY POLE W/ FIREBOX |
| UPDL | UPDL | UTILITY POLE WITH DOUBLE LIGHT |
| ULT | ULT | UTILITY POLE W / 1 LIGHT |
| UPL | UPL | UTILITY POLE |
| | | BUSH |
| SIZE & TYPE | | TREE |
| | | STUMP |
| | | SWAMP / MARSH |
| WG | WG | WATER GATE |
| PM | PM | PARKING METER |
| | | OVERHEAD CABLE/WIRE |
| | | CURBING |
| 100 99 | | CONTOURS (ON-THE-GROUND SURVEY DATA) |
| 100 99 | | CONTOURS (PHOTOGRAMMETRIC DATA) |
| | | UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) |
| | | UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) |
| | | UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) |
| | | UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) |
| | | UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) |
| | | UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) |
| | | BALANCED STONE WALL |
| | | GUARD RAIL - STEEL POSTS |
| | | GUARD RAIL - WOOD POSTS |
| | | GUARD RAIL - DOUBLE FACE - STEEL POSTS |
| | | GUARD RAIL - DOUBLE FACE - WOOD POSTS |
| x | x | CHAIN LINK OR METAL FENCE |
| | | WOOD FENCE |
| | | SEDIMENT BARRIER |
| | | COIR LOG SEDIMENT BARRIER |
| | | TREE LINE |
| | | SAWCUT LINE |
| | | TOP OR BOTTOM OF SLOPE |
| | | LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY |
| | | BANK OF RIVER OR STREAM |
| | | BORDER OF WETLAND |
| | | 100 FT WETLAND BUFFER |
| | | 200 FT RIVERFRONT BUFFER |
| | | STATE HIGHWAY LAYOUT |
| | | TOWN OR CITY LAYOUT |
| | | COUNTY LAYOUT |
| | | RAILROAD SIDELINE |
| | | TOWN OR CITY BOUNDARY LINE |
| | | PROPERTY LINE OR APPROXIMATE PROPERTY LINE |
| | | EASEMENT |

## PAVEMENT MARKINGS SYMBOLS

| EXISTING | PROPOSED | DESCRIPTION |
|---|---|---|
| | | PAVEMENT ARROW - WHITE |
| ONLY | ONLY | LEGEND "ONLY" - WHITE |
| | SL | STOP LINE - WHITE, 12" WIDTH |
| | CW | CROSSWALK - WHITE, 12" WIDTH |

## ABBREVIATIONS

GENERAL

| | |
|---|---|
| AADT | ANNUAL AVERAGE DAILY TRAFFIC |
| ABAN | ABANDON |
| ADJ | ADJUST |
| APPROX. | APPROXIMATE |
| A.C. | ASPHALT CONCRETE |
| ACCM PIPE | ASPHALT COATED CORRUGATED METAL PIPE |
| BIT. | BITUMINOUS |
| BC | BOTTOM OF CURB |
| BD. | BOUND |
| BL | BASELINE |
| BLDG | BUILDING |
| BM | BENCHMARK |
| BO | BY OTHERS |
| BOS | BOTTOM OF SLOPE |
| BR. | BRIDGE |
| CB | CATCH BASIN |
| CBCI | CATCH BASIN WITH CURB INLET |
| CC | CEMENT CONCRETE |
| CCM | CEMENT CONCRETE MASONRY |
| CEM | CEMENT |
| CI | CURB INLET |
| CIP | CAST IRON PIPE |
| CLF | CHAIN LINK FENCE |
| CL | CENTERLINE |
| CMP | CORRUGATED METAL PIPE |
| CSP | CORRUGATED STEEL PIPE |
| CO. | COUNTY |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| CONST | CONSTRUCTION |
| CR GR | CROWN GRADE |
| DHV | DESIGN HOURLY VOLUME |
| DI | DROP INLET |
| DIA | DIAMETER |
| DIP | DUCTILE IRON PIPE |
| DW | STEADY DON'T WALK - PORTLAND ORANGE |
| DWY | DRIVEWAY |
| ELEV (or EL.) | ELEVATION |
| EMB | EMBANKMENT |
| EOP | EDGE OF PAVEMENT |
| EXIST (or EX) | EXISTING |
| EXC | EXCAVATION |
| F&C | FRAME AND COVER |
| F&G | FRAME AND GRATE |
| FDN. | FOUNDATION |
| FLDSTN | FIELDSTONE |
| GAR | GARAGE |
| GD | GROUND |
| GG | GAS GATE |
| GI | GUTTER INLET |
| GIP | GALVANIZED IRON PIPE |
| GRAN | GRANITE |
| GRAV | GRAVEL |
| GRD | GUARD |
| HDW | HEADWALL |
| HMA | HOT MIX ASPHALT |
| HOR | HORIZONTAL |
| HYD | HYDRANT |
| INV | INVERT |
| JCT | JUNCTION |
| L | LENGTH OF CURVE |
| LB | LEACH BASIN |

## ABBREVIATIONS (cont.)

GENERAL

| | |
|---|---|
| LP | LIGHT POLE |
| LT | LEFT |
| MAX | MAXIMUM |
| MB | MAILBOX |
| MH | MANHOLE |
| MHB | MASSACHUSETTS HIGHWAY BOUND |
| MIN | MINIMUM |
| M&O | MILL & OVERLAY |
| NIC | NOT IN CONTRACT |
| NO. | NUMBER |
| PC | POINT OF CURVATURE |
| PCC | POINT OF COMPOUND CURVATURE |
| PCR | PEDESTRIAN CURB RAMP |
| P.G.L. | PROFILE GRADE LINE |
| PI | POINT OF INTERSECTION |
| POC | POINT ON CURVE |
| POT | POINT ON TANGENT |
| PRC | POINT OF REVERSE CURVATURE |
| PROJ | PROJECT |
| PROP | PROPOSED |
| PSB | PLANTABLE SOIL BORROW |
| PT | POINT OF TANGENCY |
| PVC | POINT OF VERTICAL CURVATURE |
| PVI | POINT OF VERTICAL INTERSECTION |
| PVT | POINT OF VERTICAL TANGENCY |
| PVMT | PAVEMENT |
| PWW | PAVED WATER WAY |
| R | RADIUS OF CURVATURE |
| R&D | REMOVE AND DISPOSE |
| RCP | REINFORCED CONCRETE PIPE |
| RD | ROAD |
| RDWY | ROADWAY |
| REM | REMOVE |
| RET | RETAIN |
| RET WALL | RETAINING WALL |
| ROW | RIGHT OF WAY |
| RR | RAILROAD |
| R&R | REMOVE AND RESET |
| R&S | REMOVE AND STACK |
| RT | RIGHT |
| SB | STONE BOUND |
| SGC | SLOPED GRANITE CURB |
| SHLD | SHOULDER |
| SMH | SEWER MANHOLE |
| ST | STREET |
| STA | STATION |
| SSD | STOPPING SIGHT DISTANCE |
| SHLO | STATE HIGHWAY LAYOUT LINE |
| SW | SIDEWALK |
| T | TANGENT DISTANCE OF CURVE/TRUCK % |
| TAN | TANGENT |
| TEMP | TEMPORARY |
| TC | TOP OF CURB |
| TOS | TOP OF SLOPE |
| TYP | TYPICAL |
| UP | UTILITY POLE |
| VAR | VARIES |
| VERT | VERTICAL |
| VC | VERTICAL CURVE |
| WG | WATER GATE |
| WIP | WROUGHT IRON PIPE |
| WM | WATER METER/WATER MAIN |
| X-SECT | CROSS SECTION |

## TRAFFIC SYMBOLS

| EXISTING | PROPOSED | DESCRIPTION |
|---|---|---|
| | | PULL BOX 12"x12" (OR AS NOTED) |
| | | ELECTRIC HANDHOLE 12"x24" (OR AS NOTED) |
| | | TRAFFIC SIGNAL CONDUIT |
| | | SIGN AND POST |

**DEVENS**
**ADAMS CIRCLE**
**LEGEND & ABBREVIATIONS**
**SHEET 2 OF 39**

GENERAL NOTES:

1. THE EXISTING CONDITIONS SHOWN ON THIS PLAN WERE COMPILED BASED UPON AN ACTUAL FIELD SURVEY CONDUCTED BY WILLIAMS SALE PARTNERSHIP BETWEEN MAY & JUNE, 2025.
2. THE HORIZONTAL CONTROL IS BASED ON THE MASSACHUSETTS MAINLAND STATE PLANE COORDINATE SYSTEM AND THE NATIONAL GEODETIC SURVEY (NAD83). ALL ELEVATION IS US FEET, REFERENCED TO THE NORTH GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
3. ALL COORDINATES SHOWN HEREON ARE IN RELATIONSHIP TO THE DEVENS, MA CONTROL NETWORK AND GEOGRAPHIC INFORMATION SYSTEMS (GIS). REFERENCE IS MADE TO THE CONTROL SURVEY AND REPORT ENTITLED, "SURVEY CONTROL REPORT FOR DEVENS, MASSACHUSETTS" PREPARED FOR MASSACHUSETTS DEVELOPMENT FINANCE AGENCY, BY CHAS. H. SELLS, INC DATED APRIL 8, 2002 AND LAST REVISED OCTOBER 23, 2020. ALL COORDINATES ARE ON THE MASSACHUSETTS MAINLAND STATE PLANE SYSTEM (NAD 1983) HORIZONTALLY AND NGVD29 VERTICALLY.
4. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND GRADES IN THE FIELD BEFORE COMMENCING WORK AND PROMPTLY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
5. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
6. PROTECTION OF UNDERGROUND FACILITIES. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE NECESSITY OF MAKING HIS OWN INVESTIGATION IN ORDER TO ASSURE THAT NO DAMAGE TO EXISTING STRUCTURES, DRAINAGE LINES, TRAFFIC SIGNAL CONDUITS, ETCETRA, WILL OCCUR.
7. DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED DRAINAGE DESIGN. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER. ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONSTRUCTABILITY OF THE DRAINAGE SYSTEM SHALL ANY STRUCTURES BE ORDERED. ANY FIELD ADJUSTMENTS TO LINE & GRADE UP TO A DEPTH OF 5' SHALL BE INCLUDED IN THE COST OF THE PIPE. PIPE EXCAVATION GREATER THAN 5' WILL BE PAID UNDER CLASS B TRENCH EXCAVATION.
8. THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH PROPOSED CONDUIT AND SIGNAL EQUIPMENT. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER.
9. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
10. THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE AND SEWER STRUCTURES AS NECESSARY FOR CHANGES IN GRADE, AND RESET ALL WATER AND DRAINAGE FRAMES, GRATES AND BOXES TO THE PROPOSED FINISH SURFACE GRADE. REQUIRED NEW MASONRY SHALL BE CLAY BRICK.
11. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
12. EXISTING UTILITY POLES WILL BE REMOVED OR RELOCATED BY OTHERS IF REQUIRED.
13. TREES AND SHRUBS WITHIN THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON APPROVAL OF THE ENGINEER.
14. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE OWNER.
15. THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R).
16. JOINTS BETWEEN NEW ASPHALT CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE THOROUGHLY COATED WITH A HOT APPLIED PAVEMENT JOINT ADHESIVE MEETING THE REQUIREMENTS OF SUBSECTION 450 OF 2024 STANDARD SPECIFICATIONS.
17. EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
18. PROPOSED BOUNDS SHALL BE PLACED BY A LICENSED PROFESSIONAL SURVEYOR. THE CONTRACTOR SHALL EXERCISE DUE CARE WHEN WORKING AROUND ALL PROPERTY BOUNDS WHICH ARE TO REMAIN. SHOULD ANY DAMAGE TO A BOUND RESULT FROM THE ACTIONS OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE THE BOUND REPLACED AND/OR REALIGNED BY A LICENSED PROFESSIONAL SURVEYOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST.
19. DISPOSAL OF ALL SURPLUS MATERIAL SHALL BE AS APPROVED BY THE ENGINEER AND OWNER.
20. IN INSTANCES WHERE AN EXISTING MANHOLE, HANDHOLE OR OTHER "SURFACE" TYPE STRUCTURE THAT CANNOT BE REMOVED OR RESET IS WITHIN THE PROPOSED OR EXISTING ACCESSIBLE SURFACE, THE STRUCTURE SHALL BE CAREFULLY ADJUSTED SUCH THAT THE TOPMOST SURFACES OR THE STRUCTURE COVER SHALL BE FLUSH WITH THE CURB RAMP SURFACE.
21. ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

15812.15_HD(TITLE).DWG Plotted on 12-Feb-2026 2:45 PM

**DEVENS**
**ADAMS CIRCLE**
**KEY PLAN**
**SHEET 3 OF 39**

15812.15_HDI(KEY).DWG Plotted on 12-Feb-2026 2:47 PM

NAD 83

N

LEGEND:

- XX CONSTRUCTION PLANS
- XX GRADING & TIE PLANS
- XX DRAINAGE & UTILITY PLANS

WILLOW BRANCH

MHW-127 MHW-126 MHW-124 MHW-123 MHW-122 MHW-121 MHW-120 MHW-119 MHW-118 MHW-117 MHW-116 MHW-115 MHW-114 MHW-113 MHW-112 MHW1-111 MHW1-110 MHW1-109 MHW1-108 MHW1-107 MHW1-106 MHW1-105 MHW1-104 MHW1-103 MHW1-102 MHW1-101 MHW1-100 MHW-128 MHW-129 MHW-130 MHW-131 MHW-132 MHW-133 MHW-134 MHW-135 MHW-136 MHW-137 MHW-138 MHW-140 MHW-139 MHW-141 MHW-142 MHW-143 MHW-144 MHW-145

8 16 22

9 17 23

6 14 23

7 15 21

BARNUM RD

MHW-200 MHW-201 MHW-300 MHW-301

LIMIT OF 100' BUFFER

BARNUM RD CONNECTION

TP #1

TP#2 TP#3 TP#4 TP#5

LIMIT OF 100' BUFFER

EXISTING TOWN LAYOUT

ADAMS CIRCLE

EXISTING TOWN LAYOUT

ADAMS CIRCLE

**PROJECT END**
**N3022943.2584**
**E627862.7015**
**STA 31+35.73**

**PROJECT BEGIN**
**N3023018.1311**
**E627867.0577**
**STA 11+93.75**

CAVITE ST

0 60 100 200 300

SCALE: 1" = 60'

# DEVENS
# ADAMS CIRCLE
# SITE PREP & DEMO PLAN
# SHEET 4 OF 39

15812.15_HD(SPDP).DWG Plotted on 12-Feb-2026 2:49 PM

NAD 83

N

100' BUFFER

PARCEL B
188,011± S.F.
4.316± AC.

PARCEL A
155,856± S.F.
3.578± AC.

MHW-133
MHW-134
MHW-135
MHW-136
MHW-137
MHW-138
MHW-139
MHW-140
MHW-141
-142

MHW1-100
MHW1-101
MHW1-102
MHW1-103
MHW1-104
MHW1-105
MHW1-106

BENCHMARK:
BMK A BNCHTIE IN UP
ELEV: 252.40'

BENCHMARK:
BMK B
ELEV: 255.22'

# ADAMS CIRCLE

# CAVITE ST

LOT 14
15,388± S.F.
0.353± AC.

LOT 13
15,380± S.F.
0.353± AC.

LOT 12
15,380± S.F.
0.353± AC.

LOT 11
15,380± S.F.
0.353± AC.

LOT 10
15,380± S.F.
0.353± AC.

LOT 9
15,380± S.F.
0.353± AC.

GAS PAINT MARKS LOCATED IN FIELD

26-10-101
NOW OR FORMERLY
HAIBO & JIE LUO MAO
8 ADAMS CIRCLE
WCRD BOOK 50682
PAGE 257
(LOT 5)
PLAN BK 888
PLAN 59 OF 2011

26-10-102
NOW OR FORMERLY
FRANK J. DEFELICE &
CHARLENE DEFELICE
6 ADAMS CIRCLE
WCRD BOOK 50658
PAGE 208
(LOT 6)
PLAN BK 888
PLAN 59 OF 2011

26-10-103
NOW OR FORMERLY
SHAWN A. CHAMBERLAIN
HELEN A. CHAMBERLAIN
4 ADAMS CIRCLE
WCRD BOOK 51673
PAGE 149
(LOT 3)
PLAN BK 888
PLAN 59 OF 2011

26-10-104
NOW OR FORMERLY
SURYA &
POORNAMADHARY SENTHIL
14 ADAMS CIRCLE
WCRD BOOK 49920
PAGE 133
(LOT 4)
PLAN BK 888
PLAN 59 OF 2011

26-10-105
NOW OR FORMERLY
HAIBO & JIE LUO MAO
8 ADAMS CIRCLE
WCRD BOOK 50682
PAGE 257
(LOT 5)
PLAN BK 888
PLAN 59 OF 2011

26-10-106
NOW OR FORMERLY
DANIEL MCMANN
2 ADAMS CIRCLE
WCRD BOOK 49668
PAGE 177
(LOT 8)
PLAN BK 888
PLAN 59 OF 2011

26-10-107
NOW OR FORMERLY
WESLEY J. PAIELLI
14 CAVITE STREET
WCRD BOOK 20, 48845
(LOT 7)
PLAN BK 888
PLAN 59 OF 2011

26-10-108
NOW OR FORMERLY
ROBERT CAMPBELL
WCRD BOOK 51985
PAGE 202
(LOT 9)
PLAN BK 888
PLAN 59 OF 2011

26-99-1600
NOW OR FORMERLY
MDFA/BOULDER HILL
24 CAVITE STREET
MSRD BOOK 26137 PAGE 3
PLAN 411 OF 1996
WCRD BOOK 17907 PAGE 1
PLAN BK 703
PLAN 112 OF 1996
(PARCEL "1")

26-99-1601
NOW OR FORMERLY
MDFA
18 CAVITE STREET
MSRD BOOK 26137 PAGE 3
PLAN 411 OF 1996
WCRD BOOK 17907 PAGE 1
PLAN BK 703
PLAN 112 OF 1996
PLAN BK 872
PLAN 102 OF 2009
(LOT BV-1)

EXISTING 25' UTILITY EASEMENT

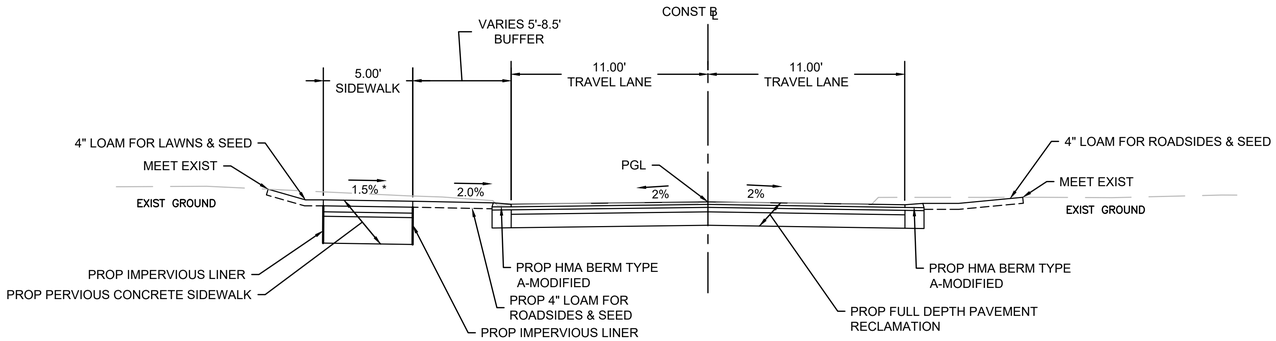
LEGEND:

- APPROX LIMIT OF DISTURBANCE
- EXISTING DRAINAGE PIPE REMOVAL
- EXISTING ASBESTOS CEMENT WATER PIPE REMOVAL
- EXISTING GAS REMOVAL (BO)
- EXISTING CURB/EDGING REMOVED AND STACKED
- EXISTING SANITARY/DRAINAGE STRUCTURE REMOVED

0 40 100 160

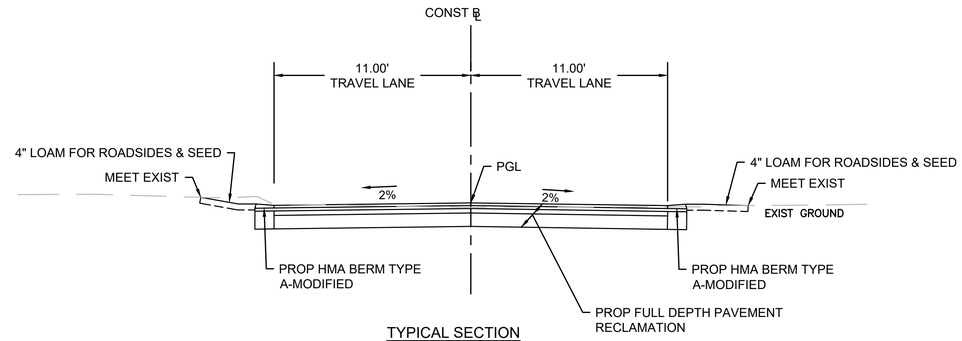
SCALE: 1" = 40'

15812.15_HD(TYP).DWG Plotted on 12-Feb-2026 2:49 PM

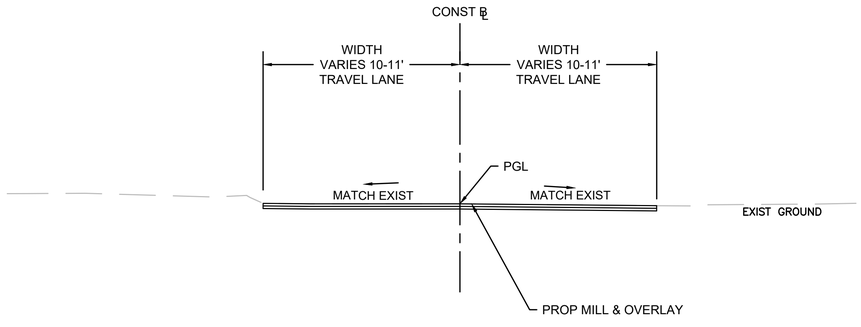



TYPICAL SECTION
STA 11+93± TO STA 19+76±
ADAMS CIRCLE BL
SCALE: 1"=4'

* TOLERANCE FOR CONSTUCTION ± 0.5%




TYPICAL SECTION
STA 19+76± TO STA 28+22±
ADAMS CIRCLE BL
SCALE: 1"=4'




* TOLERANCE FOR CONSTUCTION ± 0.5%

TYPICAL SECTION
STA 28+22± TO STA 31+35±
ADAMS CIRCLE BL
SCALE: 1"=4'

# PAVEMENT NOTES

PROPOSED FULL DEPTH PAVEMENT RECLAMATION

| | | |
|---|---|---|
| SURFACE: | 1.75" | SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER |
| INTERMEDIATE: | 2" | SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5) OVER |
| | 3" | SUPERPAVE INTERMEDIATE COURSE 19 (SIC-19.0) OVER |
| BASE: | | |
| SUBBASE: | 9" | RECLAIM PAVEMENT BORROW (M1.09.0)<br>RECLAIM DEPTH 16" |

PROPOSED MILL & OVERLAY

| | | |
|---|---|---|
| SURFACE: | 1.75" | SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER |
| MILLING: | 1.75" | PAVEMENT FINE MILLING |

PROPOSED PERVIOUS CONCRETE SIDEWALK

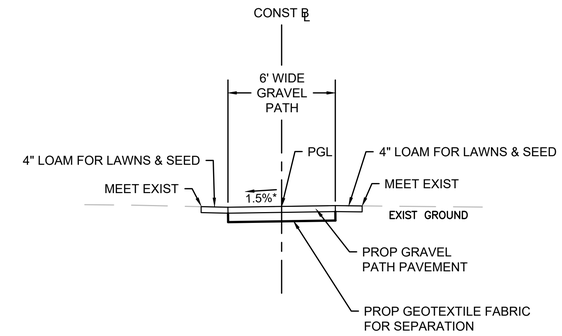
| | | |
|---|---|---|
| SURFACE: | 4" | PERVIOUS CONCRETE (PCP), 3/8" AGG. |
| INTERMEDIATE: | 4" | AASHTO NO. 57 OPEN-GRADED STONE |
| FILTER COURSE: | 3" | AASHTO NO. 8 OR EQUIVALENT FILTER COURSE |
| RESERVOIR COURSE: | 18" | AASHTO NO. 3 OPEN-GRADED STONE (≈40% VOID) |

PROPOSED HOT MIX ASPHALT DRIVEWAY

| | | |
|---|---|---|
| SURFACE: | 1.5" | SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER |
| INTERMEDIATE: | 2.5" | SUPERPAVE INTERMEDIATE COURSE 19 (SIC-19.0) OVER |
| SUBBASE: | 8" | GRAVEL BORROW, TYPE b |

PROPOSED GRAVEL PATH PAVEMENT

| | | |
|---|---|---|
| SURFACE: | 4" | STONE DUST OVER |
| SUBBASE: | 6" | DENSE GRADED CRUSHED STONE FOR SUB-BASE OVER |
| SEPARATION: | | GEOTEXTILE FABRIC FOR SEPARATION |




TYPICAL SECTION
STA 100+18± TO STA 106+36±
BARNUM RD CONNECTION BL
SCALE: 1"=4'

* TOLERANCE FOR CONSTUCTION ± 0.5%

CONTINUED ON SHEET NO. 9

CONTINUED ON SHEET NO. 7

NAD 83

N

PARCEL A
155,856± S.F
3.578± AC.

ADAMS CIRCLE

ADAMS CIRCLE ℄

EXISTING 25' UTILITY EASEMENT

PROP MILL & OVERLAY

REM EXIST PAVEMENT
PROP LOAM & SEED

PROP EDGE OF PAVEMENT (TYP)

PROP RAIN GARDEN 2
SEE SHEET 39 FOR DETAILS

PROP TREE PROTECTION

PROP FULL DEPTH
PAVEMENT RECLAMATION

PROP FULL DEPTH
PAVEMENT WIDENING

EXISTING TOWN LAYOUT

PROP LOAM FOR
ROADSIDES & SEED
(TYP)

PROP LIGHT
POLE (TYP)

PROP HMA BERM
TYPE A-MODIFIED

PROP EDGE OF PAVEMENT
(TYP)

APPROXIMATE LIMIT OF
GRADING (TYP)

REM EXIST PAVEMENT
PROP LOAM FOR
ROADSIDES & SEED

END
PROP
BERM

PROP
R1-1

REM SGC

PT +70.43

31+54.83

PROP HMA BERM
TYPE A-MODIFIED

PROJECT END
STA 31+35.73
N3022943.2584
E627862.7015

LIMIT OF MILL & OVERLAY

MEET EXIST
WALK

PROP FULL DEPTH
PAVEMENT RECLAMATION

PROP CEM CONC PCR (TYP)

PROP 5'x5' CEM CONC WALK
PANEL BOTH SIDES

MEET EXIST
WALK

PROJECT BEGIN
STA 11+93.75
N3023018.1311
E627867.0577

8' CW

R&R

10+00

PROP GRASS BUFFER
WIDTH VARIES 5'-8.5'

PROP HMA DRIVEWAY

PROP HMA DRIVEWAY

PROP LOAM FOR
LAWNS AND SEED

PROP 2' GRANITE
CURB CORNER (TYP)

EXISTING TOWN
LAYOUT

PROP HMA DRIVEWAY

PROP LOAM FOR
ROADSIDES & SEED

PROP 5' PERVIOUS
CEM CONC SIDEWALK (TYP)

APPROXIMATE LIMIT OF GRADING (TYP)

BEGIN HMA BERM
PROP GRASS BUFFER
WIDTH VARIES 5'-8.5'

R&R GRAN
EDGING

PROP CEM CONC
PCR (TYP)

EXISTING UTILTY
EASEMENT

26-10-103
NOW OR FORMERLY
MESFIN B. DEMISSIE
ILINA T. HAILEMARIAM
97 ADAMS CIRCLE
WCRD BOOK 49073
PAGE 349
(LOT 3)
PLAN BK 888
PLAN 59 OF 2011

26-10-104
NOW OR FORMERLY
SURYA &
POORNAMACHARY SENTHIL
14 ADAMS CIRCLE
WCRD BOOK 49920
PAGE 333
(LOT 4)
PLAN BK 888
PLAN 59 OF 2011

26-10-105
NOW OR FORMERLY
HAIBO & JIE LUO MAO
8 ADAMS CIRCLE
WCRD BOOK 50682
PAGE 257
(LOT 5)
PLAN BK 888
PLAN 59 OF 2011

26-10-106
NOW OR FORMERLY
DANIEL MCGAHN
2 ADAMS CIRCLE
WCRD BOOK 49668
PAGE 377
(LOT 6)
PLAN BK 888
PLAN 59 OF 2011

26-99-1601
NOW OR FORMERLY
MDFA
18 CAVITE STREET
MSRD BOOK 26137 PAGE 3
PLAN 411 OF 1996
WCRD BOOK 17907 PAGE 1
PLAN BK 703
PLAN 112 OF 1996
PLAN BK 872
PLAN 102 OF 2009
(LOT BV-1)

CAVITE STREET

LOT 11
15,380± S.F
0.353± AC.

LOT 10
15,380± S.F
0.353± AC.

LOT 9
15,380± S.F
0.353± AC.

## SIGN SUMMARY

| IDENTIFICATION NUMBER | SIZE OF SIGN | | TEXT | COLOR | | | UNIT AREA (S.F.) |
|---|---|---|---|---|---|---|---|
| | WIDTH | HEIGHT | | BACK-GROUND | LEGEND | BORDER | |
| R1-1 | 30" | 30" | STOP | RED | WHITE | WHITE | 6.25 |

NOTES:
1. SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED, AND MASSDOT SIGN BOOK FOR TEXT DIMENSIONS

0 20 50 100
SCALE: 1" = 20'

FOR PROFILES:
SEE SHEETS 11 TO 12

15812.15_HD(GEN).DWG Plotted on 12-Feb-2026 2:51 PM

CONTINUED ON SHEET NO. 8

NAD 83

N

**DEVENS**
**ADAMS CIRCLE**
**CONSTRUCTION PLANS**
**SHEET 7 OF 39**

PARCEL A
155,856± S.F
3.578± AC.

APPROXIMATE LIMIT OF GRADING (TYP)

EXISTING TOWN LAYOUT

PT +77.05

PROP FULL DEPTH PAVEMENT RECLAMATION

ADAMS CIRCLE

PC +97.77

PROP LOAM FOR ROADSIDES AND SEED

PROP HMA BERM TYPE A-MODIFIED

REM EXIST HMA PAVEMENT
PROP LOAM FOR ROADSIDES & SEED

PROP HMA BERM TYPE A-MODIFIED

**ADAMS CIRCLE BL CONST ℄ STA 19+76.78 =**
**BARNUM RD CONNECTION BL CONST ℄ STA 100+00.00**

PROP TREE PROTECTION

REM 24" TREE

PROP PCR (TYP)

END PROP 5' WALK

PT +08.24

REM TREE

PI +76.78

100+00

PROP EDGE OF PAVEMENT (TYP)

APPROXIMATE LIMIT OF GRADING (TYP)

PROP LOAM FOR ROADSIDES & SEED (TYP)

PROP HMA BERM TYPE A-MODIFIED

ADAMS CIRCLE ℄

PROP HMA BERM TYPE A-MODIFIED

PROP 5' PERVIOUS CEM CONC SIDEWALK (TYP)

PROP LOAM FOR ROADSIDES & SEED

PROP TREE PROTECTION

PROP FULL DEPTH PAVEMENT RECLAMATION

PROP FULL DEPTH PAVEMENT WIDENING

ADAMS CIRCLE

EXISTING TOWN LAYOUT

RET

PROP GRASS BUFFER WIDTH VARIES 5'-8.5'

PROP 2' GRANITE CURB CORNER (TYP)

PC +95.89

PROP 6' GRAVEL PATH

PROP TREE PROTECTION

PI +18.85

APPROXIMATE LIMIT OF GRADING (TYP)

PROP HMA DRIVEWAY

PROP HMA DRIVEWAY

PROP LIGHT POLE (TYP)

PROP HMA DRIVEWAY

PROP HMA DRIVEWAY

PROP HMA DRIVEWAY

PROP LOAM FOR LAWNS AND SEED

TP #1

LOT 14
15,388± S.F
0.353± AC.

LOT 13
15,380± S.F
0.353± AC.

LOT 12
15,380± S.F
0.353± AC.

LOT 11
15,380± S.F
0.353± AC.

LOT 10
15,380± S.F
0.353± AC.

FOR PROFILES:
SEE SHEETS 11 TO 12

0 20 50 100
SCALE: 1" = 20'

CONTINUED ON SHEET NO. 10

CONTINUED ON SHEET NO. 6

15812.15_HD(GEN).DWG Plotted on 12-Feb-2026 2:52 PM

**DEVENS**
**ADAMS CIRCLE**
**CONSTRUCTION PLANS**
**SHEET 8 OF 39**

15812.15_HD(GEN).DWG Plotted on 12-Feb-2026 2:52 PM

NAD 83

MHW–135
MHW–136
MHW–137
MHW–138
MHW–139
MHW–140
MHW–141
MHW–142
MHW–143
MHW–144

INVERT
INV 36"RCP
ELEV. 242.20'

PARCEL B
188,011± S.F
4.316± AC.

WOODED
GRASS
48"OAK

LIMIT OF 100' BUFFER

ADAMS CIRCLE

PROP LOAM FOR ROADSIDES & SEED (TYP)
PROP EDGE OF PAVEMENT (TYP)
PROP HMA BERM TYPE A-MODIFIED
PROP FULL DEPTH PAVEMENT RECLAMATION
PROP FULL DEPTH PAVEMENT WIDENING
REM EXIST HMA PAVEMENT PROP LOAM FOR ROADSIDES & SEED
APPROXIMATE LIMIT OF GRADING (TYP)

EXISTING TOWN LAYOUT
REM BC
PT +59.39
24
ADAMS CIRCLE 8
25
REM SGC
REM BC
26
PT +89.35
PC +60.66
PC +47.11
PC +75.18
23
REM EXIST PVMNT PROP LOAM FOR ROADSIDE & SEED
PROP HMA BERM TYPE A-MODIFIED
PROP LOAM FOR ROADSIDES & SEED (TYP)
PROP EDGE OF PAVEMENT (TYP)
REM EXIST PVMNT PROP LOAM FOR ROADSIDE & SEED
APPROXIMATE LIMIT OF GRADING (TYP)
PROP RAIN GARDEN SEE SHEET 39 FOR DETAILS
BREAK HMA BERM FOR STORMWATER ACCESS
APPROXIMATE LIMIT OF GRADING (TYP)
PT +77.05
22
EXISTING TOWN LAYOUT
APPROXIMATE LIMIT OF GRADING (TYP)
PROP EDGE OF PAVEMENT (TYP)
PC +97.77
21
PROP FULL DEPTH PAVEMENT WIDENING
PROP FULL DEPTH PAVEMENT RECLAMATION
PROP EDGE OF PAVEMENT (TYP)

CABLE LINE (R)

PARCEL A
155,856± S.F
3.578± AC.

0 20 50 100
SCALE: 1" = 20'

FOR PROFILES:
SEE SHEETS 11 TO 12

CONTINUED ON SHEET NO. 9

CONTINUED ON SHEET NO. 7

**DEVENS**
**ADAMS CIRCLE**
**CONSTRUCTION PLANS**
**SHEET 9 OF 39**

15812.15_HD(GEN).DWG Plotted on 12-Feb-2026 2:53 PM

MHW–126 MHW–125 MHW–124 MHW–123 MHW–122 MHW–121 MHW–120 MHW–119 MHW–118 MHW–117 MHW–116 MHW–115 MHW–114 MHW–113 MHW1–112 MHW1–111 MHW1–110 MHW1–109 MHW1–108 MHW1–107 MHW1–106 MHW1–105 MHW1–104 MHW1–103 MHW1–102 MHW1–101 MHW1–100

WILLOW BRANCH

INVERT
INV. 18IN"RCP
ELEV: 242.17'

NAD 83

N

WOODED

PROP EROSION CONTROL (TYP)

TP#5 TP#3 TP#4 TP#2

PROP CONSTRUCTED STORMWATER WETLAND SEE SHEET 38 FOR DETAILS

PROP 6' BLACK VINYL CHAIN LINK FENCE (TYP)

APPROXIMATE LIMIT OF GRADING (TYP)

WETLAND MAINTENANCE ACCESS GATE

LIMIT OF 100' BUFFER

GRASS

REM EXIST FENCE & LANDSCAPING AREA

END HMA BERM; MATCH EXIST SGC

ADAMS CIRCLE

REM EXIST HMA PAVEMENT PROP LOAM FOR ROADSIDES & SEED

PROP EDGE OF PAVEMENT (TYP)

PROP FULL DEPTH PAVEMENT RECLAMATION

PROP FULL DEPTH PAVEMENT WIDENING

EXISTING TOWN LAYOUT

PC +60.66

PC +47.11

PT +89.35

ADAMS CIRCLE ℄

PROP FULL DEPTH PAVEMENT WIDENING

PROP FULL DEPTH PAVEMENT RECLAMATION

BREAK HMA BERM FOR STORMWATER ACCESS

PROP STABILIZED TURF MAT

LIMIT OF FULL DEPTH RECLAMATION STA 28+08

PROP MILL & OVERLAY

PROP LOAM FOR ROADSIDES & SEED (TYP)

APPROXIMATE LIMIT OF GRADING (TYP)

PROP EDGE OF PAVEMENT (TYP)

PROP RAIN GARDEN 1 SEE SHEET 39 FOR DETAILS

PROP HMA BERM TYPE A-MODIFIED

PROP STABILIZED TURF MAT

PROP TREE PROTECTION RET TREE

PT +70.83

26–10–101
NOW OR FORMERLY
DAVID M. AND KEIKO DION
89 ADAMS CIRCLE
WCRD BOOK 50503
PAGE 156
(LOT 1)
PLAN BK 888
PLAN 59 OF 2011

26–10–102
NOW OR FORMERLY
FRANK TETSUNG LIN CHI HSU YU
93 ADAMS CIRCLE
WCRD BOOK 48058
PAGE 308
(LOT 2)
PLAN BK 888
PLAN 59 OF 2011

26–10–103
NOW OR FORMERLY
MESFIN B. DEMISSIE HILINA T. HAILEMARIAM
97 ADAMS CIRCLE
WCRD BOOK 49073
PAGE 349
(LOT 3)
PLAN BK 888
PLAN 59 OF 2011

26–10–10
NOW OR FORM
SURYA &
POORNAMACHARY
14 ADAMS CIR
WCRD BOOK 4
PAGE 333
(LOT 4)
PLAN BK 88
PLAN 59 OF

PARCEL A
155,856± S.F
3.578± AC.

0 20 50 100
SCALE: 1" = 20'

FOR PROFILE:
SEE SHEET 12

CONTINUED ON SHEET NO. 8

CONTINUED ON SHEET NO. 6

15812.15_HD(GEN).DWG Plotted on 12-Feb-2026 2:53 PM

CONTINUED ON SHEET NO. 7

NAD 83

N

BARNUM RD

ADAMS CIRCLE

20-13-230

NOW OR FORMERLY
249 BARNUM ROAD LLC
249 BARNUM ROAD
WCRD BOOK 54663
PAGE 251
PLAN BK 917
PLAN 23 OF 2015
(LOT 1B)

20-13-1000

NOW OR FORMERLY
EXETER 235 BARNUM, LLC
235 BARNUM ROAD
WCRD BOOK 52884, PAGE 370
(LOT 1A)
PLAN BK 756
PLAN 119 OF 2000

1 STORY WOOD

CABLE LINE (R)

WOODED

106+38.35

MEET EXIST PAVEMENT

PT +36.32

PROP 6' GRAVEL PATH

APPROX. LIMIT OF GRADING

BARNUM RD CONNECTION ℄

PROP LOAM & SEED FOR LAWNS (TYP)

LIMIT OF 100' BUFFER

PROP 6' GRAVEL PATH

PCC +39.17

PC +97.89

PROP LOAM FOR ROADSIDES AND SEED

REM 24" TREE

END PROP 5' WALK

REM

PT +08.24

PROP LOAM & SEED FOR LAWNS (TYP)

PC +95.89

APPROXIMATE LIMIT OF GRADING (TYP)

PROPOSED PERVIOUS CONCRETE SIDEWALK

PI +18.8

TP #1

MHW-300

MHW-301

UP#14-1

15IN"OAK

SBDH

CONCRETE DRIVE

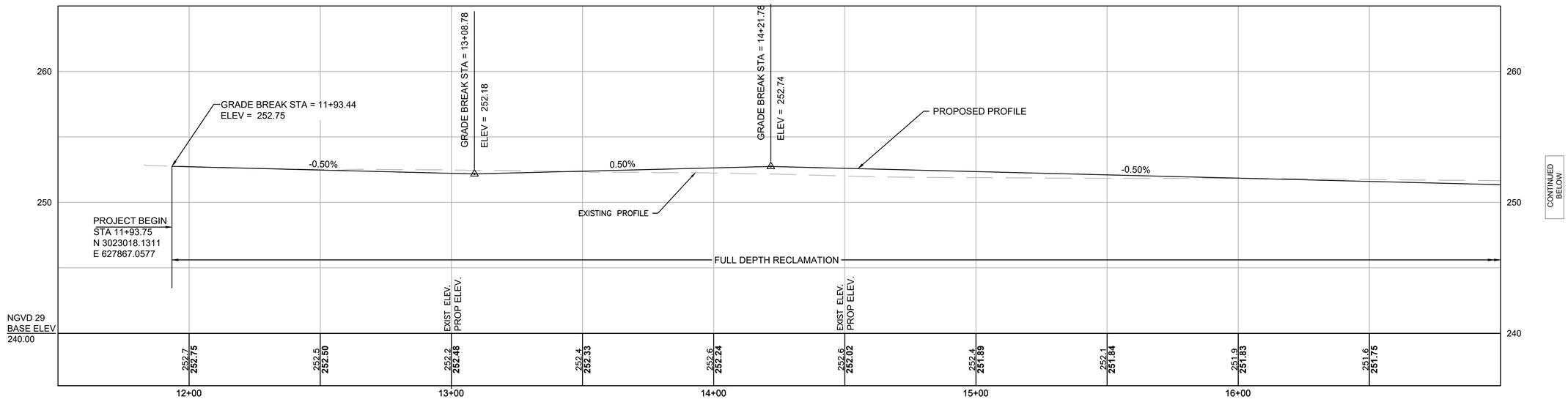
0 20 50 100

SCALE: 1" = 20'

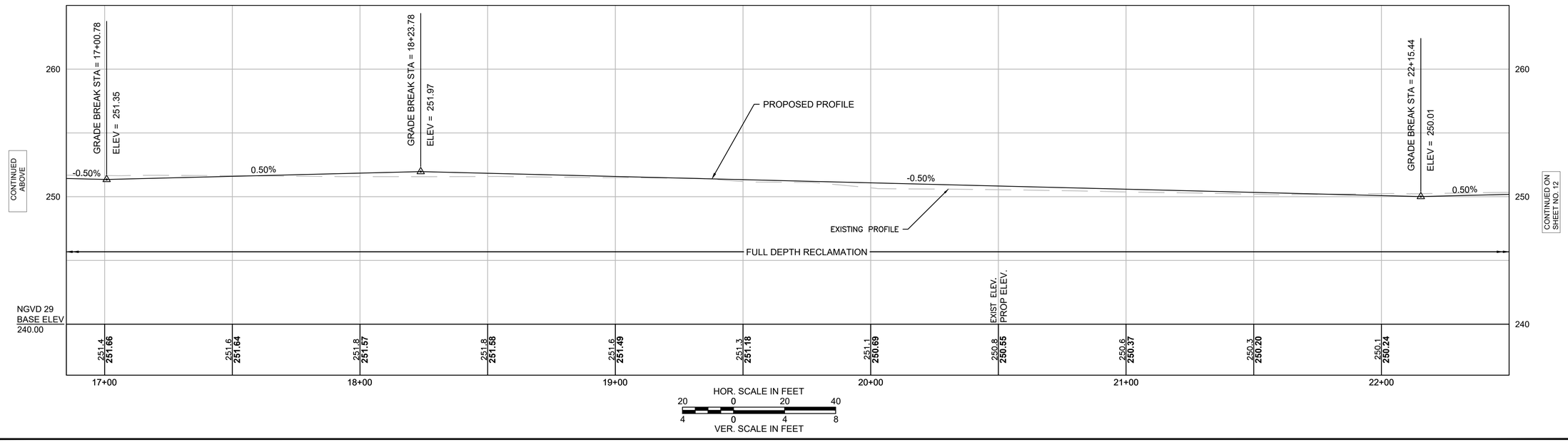
FOR PROFILE:
SEE SHEET 13

15812.15_HD(PROF).DWG Plotted on 12-Feb-2026 2:54 PM

# ADAMS CIRCLE BL

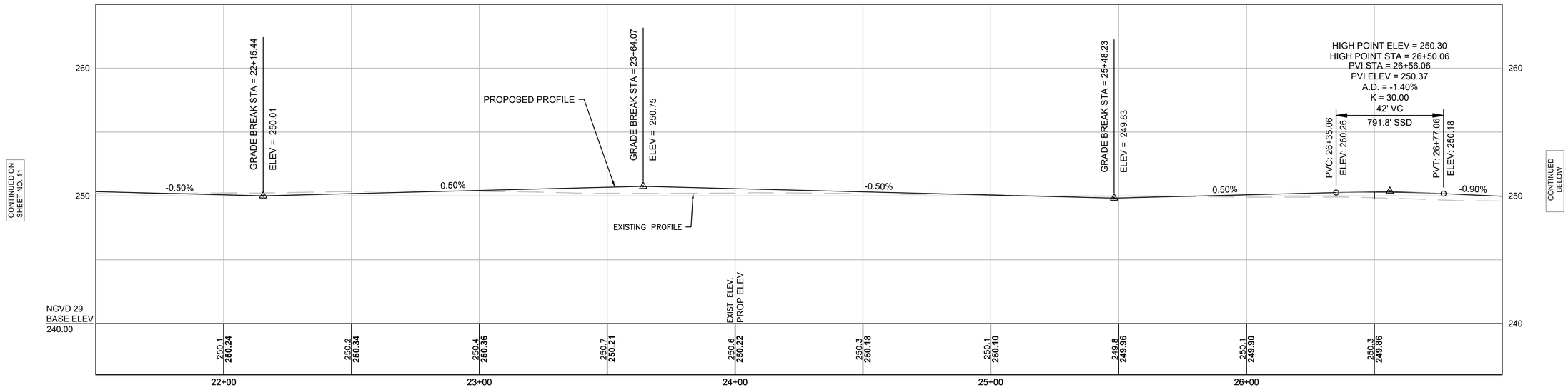



# ADAMS CIRCLE BL



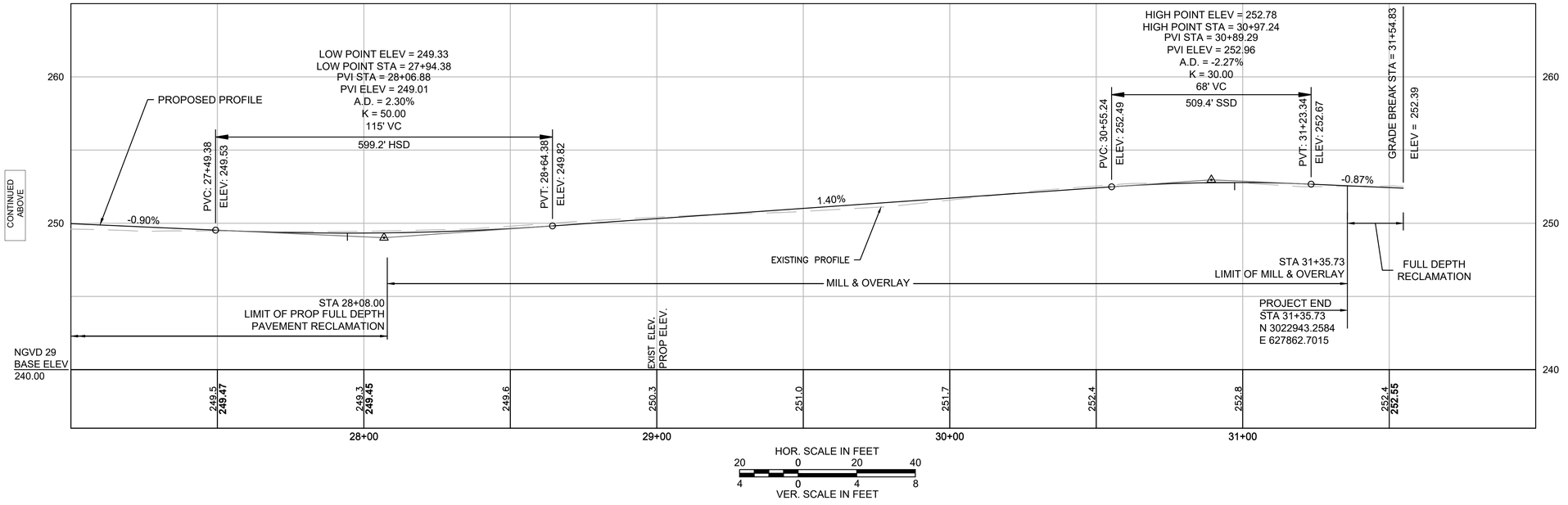
15812.15_HD(PROF).DWG Plotted on 12-Feb-2026 2:54 PM

# ADAMS CIRCLE BL



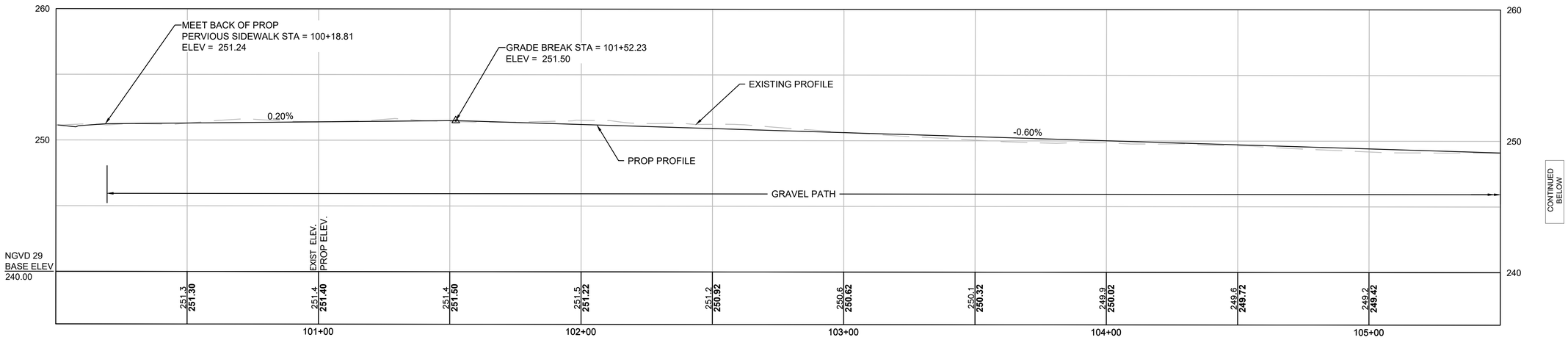

# ADAMS CIRCLE BL

NO VERTICAL GEOMETRIC DESIGN IS PROPOSED WITHIN THE MILL & OVERLAY LIMITS.
PROPOSED PROFILE IS SHOWN FOR INFORMATIONAL PURPOSES ONLY TO PROVIDE
CONTINUITY WITH ADJACENT RECLAMATION WORK.

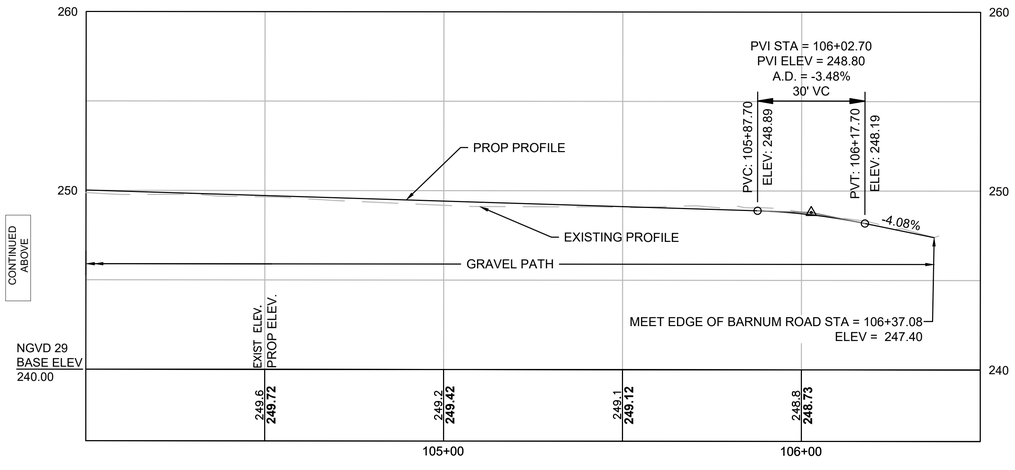


15812.15_HD(PROF).DWG Plotted on 12-Feb-2026 2:54 PM

## BARNUM RD CONNECTION BL




## BARNUM RD CONNECTION BL




HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

CONTINUED ON SHEET NO. 17

CONTINUED ON SHEET NO. 15

PARCEL A
155,856± S.F
3.578± AC.

NAD 83

N

ADAMS CIRCLE

ADAMS CIRCLE

EXISTING TOWN LAYOUT

ADAMS CIRCLE B

BIT DRIVE

EOP

SGC

30 L6 9.00'±11.00'±

BOTTOM OF BANK
250.75

TOP OF BANK
252.00

+93.5
16.2'± RT
MEET EXIST

RIM = 252.56
INV. OUT= 246.12

PC+03.86
11.00' RT

BEGIN HMA BERM
STA 13+13.81, 12.01' RT

HIGH POINT 252.52

LOW POINT 251.98

LOW POINT 251.96

PT +70.43

PROJECT END
STA 31+35.73
N3022943.2584
E627862.7015

+93.8
12.6'± RT
MEET EXIST

PT+32.58
19.64' RT

PROJECT BEGIN
STA 11+93.75
N3023018.1311
E627867.0577

31+54.83

10+00

11'00'

6.9'+/-

7.2'+/-

8.2'+/-

7.9'+/-

6.1'+/-

5.9'+/-

LIMIT OF PROP ROADWAY
WORK GRADING/MEET PROPOSED
HOUSING SITE GRADING (TYP)

Limit of Full Depth Reclamation

BEGIN HMA BERM
STA 12+20.24, 11.00' LT

EXISTING TOWN LAYOUT

GRASS

PROPOSED DUPLEX

LOT 11
15,380± S.F
0.353± AC.

LOT 10
15,380± S.F
0.353± AC.

LOT 9
15,380± S.F
0.353± AC.

WOODED

15"PINE

26-99-1600
NOW OR FORMERLY
MDFA/BOULDER HILL
24 CAVITE STREET
MSRD BOOK 26137 PAGE 3
PLAN 411 OF 1996
WCRD BOOK 17907 PAGE 1
PLAN BK 703
PLAN 112 OF 1996
(PARCEL "1")

26-10-103
NOW OR FORMERLY
MESFIN B. DEMISSIE
HILINA T. HAILEMARIAM
97 ADAMS CIRCLE
WCRD BOOK 49073
PAGE 349
(LOT 3)
PLAN BK 888
PLAN 59 OF 2011

26-10-104
NOW OR FORMERLY
SURYA &
POORNAMACHARY SENTHIL
14 ADAMS CIRCLE
WCRD BOOK 49920
PAGE 333
(LOT 4)
PLAN BK 888
PLAN 59 OF 2011

26-10-105
NOW OR FORMERLY
HAIBO & JIE LUO MAO
8 ADAMS CIRCLE
WCRD BOOK 50682
PAGE 257
(LOT 5)
PLAN BK 888
PLAN 59 OF 2011

26-10-106
NOW OR FORMERLY
DANIEL MCGAHN
2 ADAMS CIRCLE
WCRD BOOK 49668
PAGE 377
(LOT 6)
PLAN BK 888
PLAN 59 OF 2011

BENCHMARK
PIN B
ELEV: 255.22'

0 20 50 100
SCALE: 1" = 20'

| ADAMS CIRCLE BL CONSTRUCTION BASELINE DATA | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NUMBER | STARTING STATION | NORTHING | EASTING | CURVE DATA | LINE DATA | ENDING STATION | NORTHING | EASTING |
| C1 | 10+00.00 | 3023200.685 | 627803.326 | R=885.00' Δ=17°30'28" L=270.43' T=136.28' | | 12+70.43 | 3022942.756 | 627881.015 |
| L1 | 12+70.43 | 3022942.756 | 627881.015 | | S8°00'31"E 706.36' | 19+76.78 | 3022243.288 | 627979.425 |
| L6 | 28+70.83 | 3022821.429 | 627627.478 | | N62°37'09"E 284.00' | 31+54.83 | 3022952.041 | 627879.658 |

| Curve Table | | | |
|---|---|---|---|
| Curve # | Delta | Radius | Length |
| 1 | 22°11'50" | 25.00 | 9.69 |
| 4 | 5°39'40" | 269.01 | 26.58 |

15812.15_HD(GRAD).DWG Plotted on 12-Feb-2026 2:56 PM

CONTINUED ON SHEET NO. 16

| ADAMS CIRCLE BL CONSTRUCTION BASELINE DATA | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NUMBER | STARTING STATION | NORTHING | EASTING | CURVE DATA | LINE DATA | ENDING STATION | NORTHING | EASTING |
| L1 | 12+70.43 | 3022942.756 | 627881.015 | | S8°00'31"E 706.36' | 19+76.78 | 3022243.288 | 627979.425 |
| L2 | 19+76.78 | 3022243.288 | 627979.425 | | S82°02'33"W 120.99' | 20+97.77 | 3022226.539 | 627859.600 |
| C2 | 20+97.77 | 3022226.539 | 627859.600 | R=125.00' Δ=36°20'13" L=79.27' T=41.02' | | 21+77.05 | 3022240.357 | 627782.882 |
| L3 | 21+77.05 | 3022240.357 | 627782.882 | | N61°37'14"W 98.13' | 22+75.18 | 3022287.002 | 627696.541 |

| Curve Table | | | |
|---|---|---|---|
| Curve # | Delta | Radius | Length |
| 2 | 90°03'17" | 20.00 | 31.44 |
| 3 | 90°07'00" | 20.00 | 31.46 |

PARCEL A
155,856± S.F
3.578± AC.

# ADAMS CIRCLE

EXISTING TOWN LAYOUT
PT +77.05
BC
C2
EXISTING TOWN LAYOUT
11.00'
11.00'
4.00'±
BENCHMARK:
BMK A BNCHTIE IN UP
ELEV: 252.40'
PC +97.77
21
BC
BC
250.66
L2
PT+07.81
11.00' RT
ELEV = 250.83
ADAMS CIRCLE BL CONST ℄ STA 19+76.78 =
BARNUM RD CONNECTION BL CONST ℄ STA 100+00.00
EOP
PC+45.75
11.00' RT
ELEV = 251.14
HIGH POINT 251.75
LOW POINT 251.18
EXISTING TOWN LAYOUT
PT+85.91
11.00' RT
ELEV = 250.92
PI +76.78
HIGH POINT 251.75
LOW POINT 251.18
C6
PC +95.89
101
PI +18.85
PT +08.24
100+00
251.05
4.0'+/-
+33
4.0'+/-
+5
4.0'+/-
+27
4.0'+/-
+99
4.7'+/-
+19
5.0'+/-
+91
L1
5.8'+/-
+12
6.9'+/-
+84
6.1'+/-
+5
7.2'+/-
+77
11.00'
11.00'
EXISTING TOWN LAYOUT
PC+67.87
10.94' LT
LIMIT OF PROP ROADWAY
WORK GRADING/MEET PROPOSED
HOUSING SITE GRADING (TYP)
PROP HOUSING
SITE GRADING (BO)
TP #1
PROPOSED DUPLEX
LOT 14
15,388± S.F
0.353± AC.
LOT 13
15,380± S.F
0.353± AC.
LOT 12
15,380± S.F
0.353± AC.
LOT 11
15,380± S.F
0.353± AC.
LOT 10
15,380± S.F
0.353± AC.
GRASS
WOODED
SGC
EOP
UP
15"OAK
36"
38"
36"
26-99-1600
NOW OR FORMERLY
MDFA/BOULDER HILL
24 CAVITE STREET
MSRD BOOK 26137 PAGE 3
PLAN 411 OF 1

0 20 50 100
SCALE: 1" = 20'

CONTINUED ON SHEET NO. 14

**DEVENS**
**ADAMS CIRCLE**
**GRADING & TIE PLANS**
**SHEET 16 OF 39**

15812.15_HD(GRAD).DWG Plotted on 12-Feb-2026 2:56 PM

NAD 83

MHW-135
MHW-136
MHW-137
MHW-138
MHW-139
MHW-140
MHW-141
MHW-142
MHW-143
MHW-144

INVERT
INV 36"RCP
ELEV. 242.20'

TOP OF STREAM BANK

WOODED
GRASS

PARCEL B
188,011± S.F
4.316± AC.

LIMIT OF 100' BUFFER ZONE

48"OAK

ADAMS CIRCLE

HIGH POINT 250.53
EXISTING TOWN LAYOUT
PT +59.39
PC +75.18
C3
BC
EC
L4
11.00'
24
23
25
LIMIT OF GRADING
LOW POINT 249.61
PC +47.11 C4
PT +89.35
L5
26
EOP
SGC
PC +60.66
C5
HIGH POINT 250.09
END BERM+43.37
START BERM+52.76
TOP OF BANK
249.10
BOTTOM OF BANK
248.00
TP#2

LOW POINT 249.80
L3
EOP
PT +77.05
22
C2
11.00'
4.00'±
PC +97.77
21
ADAMS CIRCLE BL
250.66
L2
PT+07.81
LIMIT OF GRADING (TYP)

BENCHMARK:
BMK A BNCHTIE IN UP
ELEV: 252.40'

CABLE LINE (R)

PARCEL A
155,856± S.F
3.578± AC.

CONTINUED ON SHEET NO. 17

CONTINUED ON SHEET NO. 15

0 20 50 100
SCALE: 1" = 20'

ADAMS CIRCLE BL CONSTRUCTION BASELINE DATA

| NUMBER | STARTING STATION | NORTHING | EASTING | CURVE DATA | LINE DATA | ENDING STATION | NORTHING | EASTING |
|---|---|---|---|---|---|---|---|---|
| L2 | 19+76.78 | 3022243.288 | 627979.425 | | S82°02'33"W 120.99' | 20+97.77 | 3022226.539 | 627859.600 |
| C2 | 20+97.77 | 3022226.539 | 627859.600 | R=125.00' Δ=36°20'13" L=79.27' T=41.02' | | 21+77.05 | 3022240.357 | 627782.882 |
| L3 | 21+77.05 | 3022240.357 | 627782.882 | | N61°37'14"W 98.13' | 22+75.18 | 3022287.002 | 627696.541 |
| C3 | 22+75.18 | 3022287.002 | 627696.541 | R=90.00' Δ=53°36'38" L=84.21' T=45.47' | | 23+59.39 | 3022353.644 | 627650.197 |
| L4 | 23+59.39 | 3022353.644 | 627650.197 | | N8°00'37"W 187.72' | 25+47.11 | 3022539.531 | 627624.038 |
| C4 | 25+47.11 | 3022539.531 | 627624.038 | R=110.00' Δ=22°00'07" L=42.24' T=21.38' | | 25+89.35 | 3022579.222 | 627610.363 |
| L5 | 25+89.35 | 3022579.222 | 627610.363 | | N30°00'43"W 71.31' | 26+60.66 | 3022640.970 | 627574.696 |
| C5 | 26+60.66 | 3022640.970 | 627574.696 | R=130.00' Δ=92°37'52" L=210.17' T=136.11' | | 28+70.83 | 3022821.429 | 627627.478 |

**DEVENS**
**ADAMS CIRCLE**
**GRADING & TIE PLANS**
**SHEET 17 OF 39**

15812.15_HD(GRAD).DWG Plotted on 12-Feb-2026 2:56 PM

MHW-126 MHW-125 MHW-124 MHW-123 MHW-122 MHW-121 MHW-120 MHW-119 MHW-118 MHW-117 MHW-116 MHW-115 MHW-114 MHW-113 MHW1-112 MHW1-111 MHW1-110 MHW1-109 MHW1-108 MHW1-107 MHW1-106 MHW1-105 MHW1-104 MHW1-103 MHW1-102 MHW1-101 MHW1-100

INVERT
INV. 18IN"RCP
ELEV: 242.17'

TOP OF STREAM BANK

NAD 83

N

TP#5 TP#3 TP#4 TP#2

LIMIT OF 100' BUFFER ZONE

HIGH POINT 250.09

LOW POINT 249.11

LOW POINT 249.11

LOW POINT 249.61

PC +60.66 C5

PT +89.35

PC +47.11 C4

L4 L5

EXISTING TOWN LAYOUT

EXISTING TOWN LAYOUT

END BERM+43.37

START BERM+52.76

LOW POINT 249.61

LIMIT OF GRADING

HIGH POINT 250.09

ADAMS CIRCLE

END BERM+08.00

END BERM+88.05

BOTTOM OF BANK
248.00

TOP OF BANK
249.10

LIMIT OF FULL DEPTH
RECLAMATION
STA 28+08

PT +70.83

9.50'± 11.50'±

EXISTING TOWN LAYOUT

30 L6 11.00'±

9.00'±

11.00' 11.00' 11.00'±

CONTINUED ON SHEET NO. 16

CONTINUED ON SHEET NO. 14

26-10-101
NOW OR FORMERLY
DAVID M. AND KEIKO DION
89 ADAMS CIRCLE
WCRD BOOK 50503
PAGE 156
(LOT 1)
PLAN BK 888
PLAN 59 OF 2011

26-10-102
NOW OR FORMERLY
FRANK TETSUNG LIN
93 CHI HSU YU
93 ADAMS CIRCLE
WCRD BOOK 49058
PAGE 308
(LOT 2)
PLAN BK 888
PLAN 59 OF 2011

26-10-103
NOW OR FORMERLY
MESFIN B. DEMISSIE
HIJINA T. HAILEMARIAM
97 ADAMS CIRCLE
WCRD BOOK 49073
PAGE 349
(LOT 3)
PLAN BK 888
PLAN 59 OF 2011

26-10-10
NOW OR FORM
SURYA &
POORNAMACHARY
14 ADAMS CIR
WCRD BOOK 4
PAGE 333
(LOT 4)
PLAN BK 88
PLAN 59 OF

PARCEL A
155,856± S.F
3.578± AC.

0 20 50 100
SCALE: 1" = 20'

ADAMS CIRCLE BL CONSTRUCTION BASELINE DATA

| NUMBER | STARTING STATION | NORTHING | EASTING | CURVE DATA | LINE DATA | ENDING STATION | NORTHING | EASTING |
|---|---|---|---|---|---|---|---|---|
| L4 | 23+59.39 | 3022353.644 | 627650.197 | | N8°00'37"W 187.72' | 25+47.11 | 3022539.531 | 627624.038 |
| C4 | 25+47.11 | 3022539.531 | 627624.038 | R=110.00' Δ=22°00'07" L=42.24' T=21.38' | | 25+89.35 | 3022579.222 | 627610.363 |
| L5 | 25+89.35 | 3022579.222 | 627610.363 | | N30°00'43"W 71.31' | 26+60.66 | 3022640.970 | 627574.696 |
| C5 | 26+60.66 | 3022640.970 | 627574.696 | R=130.00' Δ=92°37'52" L=210.17' T=136.11' | | 28+70.83 | 3022821.429 | 627627.478 |
| L6 | 28+70.83 | 3022821.429 | 627627.478 | | N62°37'09"E 284.00' | 31+54.83 | 3022952.041 | 627879.658 |

15812.15_HD(GRAD).DWG Plotted on 12-Feb-2026 2:56 PM

CONTINUED ON SHEET NO. 15

NAD 83

N

BARNUM ROAD

EOP

20-13-230

NOW OR FORMERLY
249 BARNUM ROAD LLC
249 BARNUM ROAD
WCRD BOOK 54663
PAGE 251
PLAN BK 917
PLAN 23 OF 2015
(LOT 1B)

20-13-1000

NOW OR FORMERLY
EXETER 235 BARNUM, LLC
235 BARNUM ROAD
WCRD BOOK 52884, PAGE 370
(LOT 1A)
PLAN BK 756
PLAN 119 OF 2000

ADAMS CIRCLE

BENCHMARK:
BMK A BNCHTIE IN UP
ELEV: 252.40'

106+38.35
L10
PT +36.32

PC +91.77
11.00'
11.00'
4.00'±
21
ADAMS CIRCLE
BC
EC

250.66
L2

PT+07.81
11.00' RT
ELEV = 250.8

PI +76.78
4.0'+/-
L7
251.05
SGC

PT+85.91
11.00' RT
ELEV = 250.92

PC+67.87
10.94' LT

PC +95.89
C6
1.50'
PI +18.85
L8

100+00

PT +08.24

L9

TP #1

LIMIT OF GRADING (TYP)

C8

PCC +39.17

C7

PC +97.91

BARNUM RD CONNECTION BL CONST ℄ STA 100+00.00 =
ADAMS CIRCLE BL CONST ℄ STA 19+76.87

CABLE LINE (R)

GRAVEL DRIVE

15IN"OAK

SBDH

UP #14-1

0 20 50 100

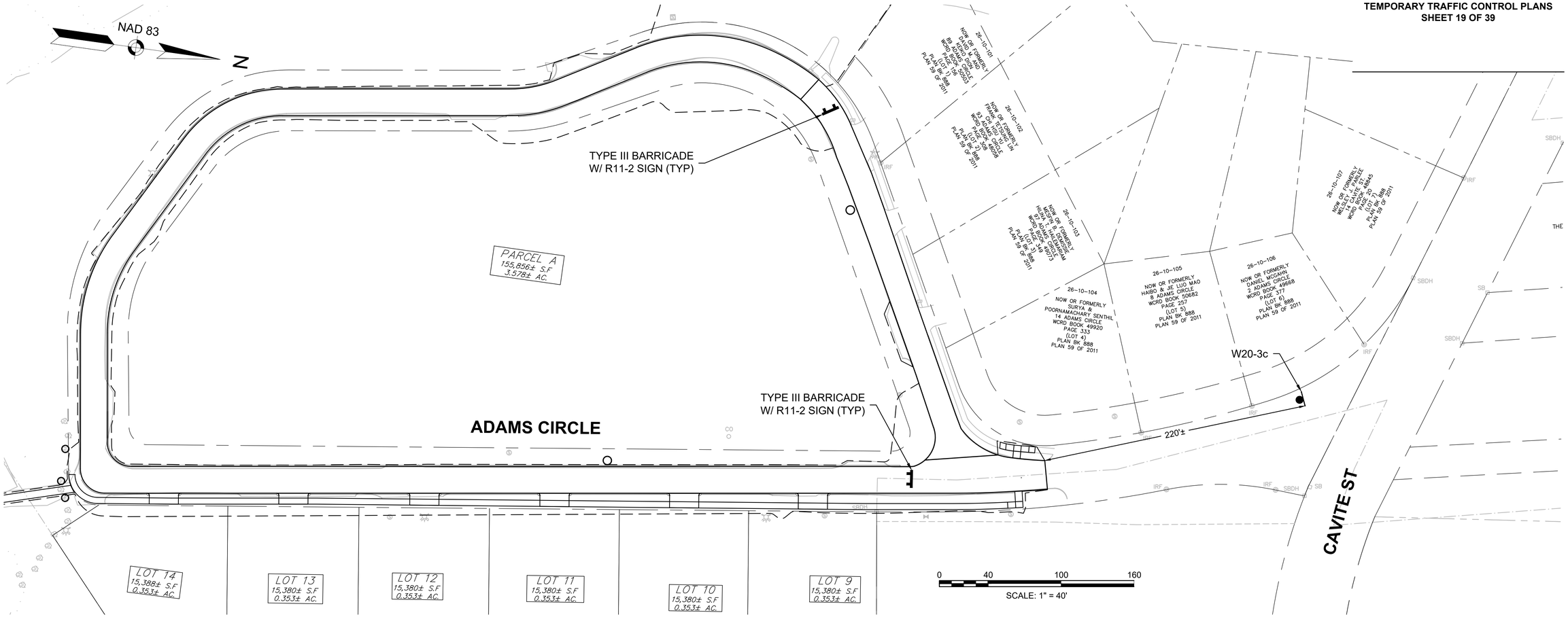
SCALE: 1" = 20'

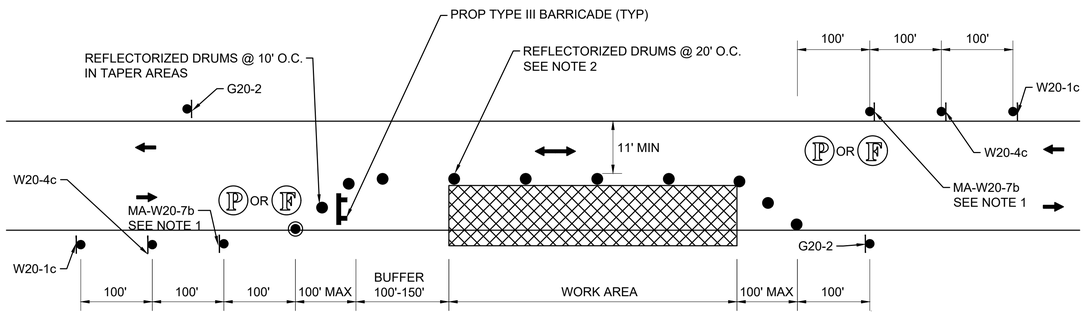
BARNUM RD CONNECTION BL CONSTRUCTION BASELINE DATA

| NUMBER | STARTING STATION | NORTHING | EASTING | CURVE DATA | LINE DATA | ENDING STATION | NORTHING | EASTING |
|---|---|---|---|---|---|---|---|---|
| L7 | 100+00.00 | 3022243.288 | 627979.425 | | S30°55'08"E 18.85' | 100+18.85 | 3022227.118 | 627989.110 |
| L8 | 100+18.85 | 3022227.118 | 627989.110 | | S16°14'45"E 77.04' | 100+95.89 | 3022153.156 | 628010.662 |
| C6 | 100+95.89 | 3022153.156 | 628010.662 | R=96.00' Δ=7°22'13" L=12.35' T=6.18' | | 101+08.24 | 3022141.555 | 628014.869 |
| L9 | 101+08.24 | 3022141.555 | 628014.869 | | S23°36'58"E 89.67' | 101+97.91 | 3022059.391 | 628050.792 |
| C7 | 101+97.91 | 3022059.391 | 628050.792 | R=45.00' Δ=52°32'24" L=41.26' T=22.21' | | 102+39.17 | 3022019.600 | 628048.948 |
| C8 | 102+39.17 | 3022019.600 | 628048.948 | R=4675.00' Δ=4°52'03" L=397.15' T=198.69' | | 106+36.32 | 3021680.561 | 627842.342 |
| L10 | 106+36.32 | 3021680.561 | 627842.342 | | S33°47'29"W 2.03' | 106+38.35 | 3021678.877 | 627841.214 |

**DEVENS**
**ADAMS CIRCLE**
**TEMPORARY TRAFFIC CONTROL PLANS**
**SHEET 19 OF 39**

15812.15_HD(TTCP).DWG Plotted on 12-Feb-2026 2:57 PM




NOTES:

1. W20-7 SIGN TO BE USED WHEN FLAGGERS ARE USED INSTEAD OF POLICE DETAILS
2. CONES MAY BE USED IN LIEU OF DRUMS OUTSIDE OF TAPER AREAS
3. CONTRACTOR TO MAINTAIN ABUTTER ACCESS UNLESS OTHERWISE COORDINATED AT LEAST 24 HOURS IN ADVANCE

## TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC

SCALE: NTS DWG: TTCP2b DATE: FEB 2022

### TEMPORARY TRAFFIC CONTROL SIGN SUMMARY

| IDENTIFICATION NUMBER | SIZE OF SIGN | | TEXT | COLOR | | | UNIT AREA (S.F.) |
|---|---|---|---|---|---|---|---|
| | WIDTH | HEIGHT | | BACKGROUND | LEGEND | BORDER | |
| MA-W20-7b | 36" | 36" | POLICE OFFICER AHEAD | FLUORESCENT ORANGE | BLACK | BLACK | 9.00 |
| G20-2 | 36" | 18" | END ROAD WORK | FLUORESCENT ORANGE / WHITE | BLACK | BLACK | 4.50 |
| R11-2 | 48" | 30" | ROAD CLOSED | WHITE | BLACK | BLACK | 10.00 |
| W20-1c | 36" | 36" | ROAD WORK AHEAD | FLUORESCENT ORANGE | BLACK | BLACK | 9.00 |
| W20-3c | 36" | 36" | ROAD CLOSED AHEAD | FLUORESCENT ORANGE | BLACK | BLACK | 9.00 |
| W20-4c | 36" | 36" | ONE LANE ROAD AHEAD | FLUORESCENT ORANGE | BLACK | BLACK | 9.00 |

NOTES:

1. SEE FHWA "STANDARD HIGHWAY SIGNS 2004 EDITION" AS AMENDED, AND MASSDOT SIGN BOOK FOR TEXT DIMENSIONS

15812.15_HD(UTIL).DWG Plotted on 12-Feb-2026 2:59 PM

CONTINUED ON SHEET NO. 23

CONTINUED ON SHEET NO. 21

PARCEL A
155,856± S.F
3.578± AC.

NAD 83

N

ADAMS CIRCLE

EXISTING TOWN LAYOUT

EXISTING 25' UTILITY EASEMENT

EXISTING UTILITY EASEMENT

PROP 24 LF - 12" RCP

PROP 9 LF - 12" RCP

PROP 125 LF - 18" RCP

PROP 8" PVC SEWER (TYP)

PROP INV. IN = 245.60

PROP RAIN GARDEN 2
(SEE SHEET 31 FOR DETAILS)

TOP OF BANK
EL. 252.0'

BOTTOM OF BANK
EL. 250.75'

PROP 16 LF - 12" RCP
RIM = 252.56
INV. OUT= 245.62

PROP 33 LF - 18" RCP

PROP 18 LF - 18" RCP
INV. IN= 245.12

PROP 3 LF - 12" RCP

PROP 113 LF - 18" RCP

PROP 8 LF - 12" RCP

PROJECT END
STA 31+35.73
N3022943.2584
E627862.7015

CONNECT TO EXIST DMH

PROJECT BEGIN
STA 11+93.75
N3023018.1311
E627867.0577

RET CB

PROP 6" GAS MAIN (BO)

PROP 6" SEWER SERVICE (BO-TYP)

PROP 8" DI WATER MAIN STUB

ABAN SEWER

PROP LIGHTING CONDUIT

PROP 4-4" CONC ENCASED COMM CONDUIT

PROP CMH
4' x 4' x 4'-0"

PROP HANDHOLE (TYP)

PROP LIGHT CONTROLLER

PROP EMH
6' x 8' x 6'-4"

PROP 359 LF - 15" RCP

PROP 6" DIP & WG

PROP 8" DI WATER

CONNECT TO EXIST WATER (PROP WYE)

PROP ELECTRIC RISER UP

PLUG SMH OUTLET

PROP COMM RISER

APPROX LOCATION OF 6" GAS MAIN CONNECTION(BO)

PROP 2-5" CONC ENCASED ELEC CONDUIT (TYP)

PROP STREET LIGHT (TYP)

PROP LIGHTING CONDUIT (TYP)

PROP 9-5" CONC ENCASED ELEC CONDUIT

PROP 4-4" CONC ENCASED COMM CONDUIT (TYP)

PROP ELEC HH

PROP COMM HH

PROP ELEC HANDHOLE

REM EXIST AC PIPE

PROP HYD

PROP 2-4" ELECTRIC SERVICE CONDUITS (TYP) (B.O.)

PROP 2-2" COMM SERVICES CONDUIT (TYP-BO)

PROP 4-4" CONC ENCASED COMM CONDUIT (TYP)

PROP 1.5" GAS SERVICE (BO-TYP)

PROP RESIDENTIAL DEVELOPMENT (TYP-BO)

PROP 1" WATER SERVICE (TYP-BO)

REM

REM (BO)

RET

ABAN

PROPOSED DUPLEX

LOT 11
15,380± S.F
0.353± AC.

LOT 10
15,380± S.F
0.353± AC.

LOT 9
15,380± S.F
0.353± AC.

26-10-103
NOW OR FORMERLY
MESFIN B. HAILEMARIAM
ILINA T. DEMISSIE
97 ADAMS CIRCLE
WCRD BOOK 49073
PAGE 349
(LOT 3)
PLAN BK 888
PLAN 59 OF 2011

26-10-104
NOW OR FORMERLY
SURYA &
POORNAMACHARY SENTHIL
14 ADAMS CIRCLE
WCRD BOOK 49920
PAGE 333
(LOT 4)
PLAN BK 888
PLAN 59 OF 2011

26-10-105
NOW OR FORMERLY
HAIBO & JIE LUO MAO
8 ADAMS CIRCLE
WCRD BOOK 50682
PAGE 257
(LOT 5)
PLAN BK 888
PLAN 59 OF 2011

26-10-106
NOW OR FORMERLY
DANIEL MCGAHN
2 ADAMS CIRCLE
WCRD BOOK 49668
PAGE 377
(LOT 6)
PLAN BK 888
PLAN 59 OF 2011

26-99-1600
NOW OR FORMERLY
MDFA/BOULDER HILL
24 CAVITE STREET
MSRD BOOK 26137 PAGE 3
PLAN 411 OF 1996
WCRD BOOK 17907 PAGE 1
PLAN BK 703
PLAN 112 OF 1996
(PARCEL "1")

## GENERAL NOTES:

1. ALL PROPOSED HANDHOLES SHALL BE 12" x 12", TYPE SD2-031
2. PROPOSED RESIDENTIAL WATER SERVICES SHALL BE INSTALLED FROM THE WATER MAIN TO THE PROPERTY LINE AND SHALL INCLUDE A CURB STOP AND SERVICE BOX AT OR NEAR THE PROPERTY LINE. SERVICES SHALL BE TERMINATED FOR FUTURE CONNECTION BY OTHERS.
3. PROPOSED SEWER SERVICE LATERALS SHALL BE INSTALLED FROM THE SEWER MAIN TO THE PROPERTY LINE AND SHALL BE TERMINATED WITH A WATERTIGHT CAPPED STUB FOR FUTURE CONNECTION BY OTHERS.
4. PROPOSED ELECTRIC CONDUITS SHALL BE INSTALLED TO THE PROPERTY LINE AND SHALL TERMINATE IN A 12" x 12" HANDHOLE (TYPE SD2-031) FOR FUTURE CONNECTION BY OTHERS.
5. PROPOSED COMMUNICATIONS CONDUITS SHALL BE INSTALLED TO THE PROPERTY LINE AND SHALL TERMINATE IN A 12" x 12" HANDHOLE (TYPE SD2-031) FOR FUTURE CONNECTION BY OTHERS.

0 20 50 100
SCALE: 1" = 20'

## DRAINAGE STRUCTURE DATA

| NO. | TYPE | STATION | RIM ELEV. | INV. ELEV. IN | INV. ELEV. OUT | REMARKS |
|---|---|---|---|---|---|---|
| 1 | PROP DMH | 13+08.8<br>2.4' RT | 252.13 | I=247.46' ()<br>I=247.00' (22)<br>I=247.00' (21) | I=246.09' (24) | CONNECT TO EXIST DMH |
| 2 | PROP DMH | 13+21<br>40.5' RT | 253.27 | I=245.52' (24)<br>I=245.52' (28) | I=245.51' (9) | |
| 9 | PROP DMH | 29+70.7<br>17.3' RT | 251.34 | I=247.71' (18)<br>I=245.12' (2)<br>I=247.64' (17) | I=245.11' (8) | |
| 17 | PROP CB | 29+80.1<br>8.1' RT | 251.62 | | I=247.79' (9) | |
| 18 | PROP CB | 29+67.1<br>-10.4' LT | 251.04 | | I=247.79' (9) | |
| 21 | PROP CB | 13+09.3<br>-9.8' LT | 251.98 | | I=247.12' (1) | |
| 22 | PROP CB | 13+09.4<br>9.0' RT | 252.00 | | I=247.07' (1) | |
| 24 | PROP DMH | 13+30.7<br>5.0' RT | 252.18 | I=246.00' (25)<br>I=245.98' (1) | I=245.97' (2) | |
| 28 | PROP DI | 31+06.8<br>27.5' RT | 251.25 | | I=245.60' (2) | DROP INLET TYPE A |

NAD 83

N

**DEVENS**
**ADAMS CIRCLE**
**DRAINAGE & UTILITY PLANS**
**SHEET 21 OF 39**

15812.15_HD(UTIL).DWG Plotted on 12-Feb-2026 2:59 PM

ADAMS CIRCLE

PT +77.05

PC +97.77

PROP HYDRANT

PROP 6" DI PIPE WITH GATE VALVE

REM EXIST AC PIPE

PROP 8" DI PIPE

EXISTING TOWN LAYOUT

ADAMS CIRCLE (R)

BENCHMARK:
BMK A BNGHTIE IN UP
ELEV: 252.40'

PARCEL A
155,856± S.F
3.578± AC.

**DRAINAGE STRUCTURE DATA**

| NO. | TYPE | STATION | RIM ELEV. | INV. ELEV. IN | INV. ELEV. OUT | REMARKS |
|---|---|---|---|---|---|---|
| 23 | PROP CB | 17+09.5<br>9.9' RT | 251.19 | | I=248.02' (25) | |
| 25 | PROP DMH | 16+93.9<br>4.1' RT | 251.30 | I=247.85' (23)<br>I=247.85' (26) | I=247.82' (24) | |
| 26 | PROP CB | 17+09.5<br>-9.9' LT | 251.19 | | I=248.06' (25) | |

REM
RIM=249.81
DEPTH=247.16
SILT
INV1=NPV

REM
RIM=251.61
DEPTH=247.26
INV1=247.26
INV2=N/A
INV3=246.21

REM
RIM=251.23
DEPTH=247.13
INV1=247.23
INV2=247.13

REM
RIM=251.18
DEPTH=247.69
INV1=N/A
INV2=N/A
FILLED WITH SILT

REM
RIM=249.30
NPV

REM
RIM=251.22
DEPTH=245.87
INV1=245.92
INV2=245.87
INV3=245.87

REM
RIM=251.40
DEPTH=246.00
INV1=246.00
INV2=246.00

ABAN
RIM=252.18
INV1=247.18
INV2=247.13

PROP CMH
4' x 4' x 4'-0"

SMH NOT FOUND
POSSIBLE
SEWER
CLEAN OUT
ELEV=252.15

PROP HANDHOLE (TYP)

PROP 6" SEWER SERVICE (BO-TYP)

PROP LIGHT
CONTROLLER
PROP EMH
6' x 8' x 6'-4"

PROP 4-4" CONC
ENCASED COMM
CONDUIT

PROP EMH

PROP CMH

PROP SMH (TYP)
RIM= 251.04
INV. OUT = 248.04

PROP 8" PVC
SEWER

ABAN
RIM=251.22
DEPTH=248.72
NPV (SILT)

PROP LIGHTING CONDUIT
PROP 6"
GAS MAIN (BO)

PROP EMH
WITH TRANSFORMER
6' x 8' x 6'-4"

PROP 13 LF - 10" DIP

PROP 8" DI
WATER
MAIN STUB

ABAN
SEWER

PROP LIGHTING CONDUIT

EXISTING TOWN LAYOUT

BARNUM ROAD
CONNECTION

9+61.43

PROP STREET
LIGHT (TYP)

REM

REM (BO)

PROP 8" DI WATER
ADAMS CIRCLE

PROP 359 LF - 15" RCP

REM (BO)

PROP CMH
4' x 4' x 4'-0"

CONNECT TO
EXIST WATER

REM

PROP
HYDRANT

ABAN (BO)

PROP CMH
4' x 4' x 4'-0"

PROP 17 LF - 10" DIP

REM (BO)

PROP
COMM HH

PROP
ELEC HH

PROP 9-5"
CONC
ENCASED ELEC
CONDUIT

PROPOSED
DUPLEX

REM
RIM=251.30
DEPTH=247.45
INV1=247.45

REM
RIM=251.36
DEPTH=246.51
NPV

REM
RIM=251.24
DEPTH=245.94
INV1=246.04
INV2=245.94

REM
RIM=253.28
DEPTH=251.23
CND
SILT COVER

REM
RIM=251.98
DEPTH=249.03
CND
SILT COVER

REM
RIM=253.77
DEPTH=N/A
CND
SILT COVER

PROP 4-4"
CONC ENCASED
COMM CONDUIT

PROP 6"
DIP & WG

PROP CMH
4' x 4' x 4'-0"

PROP EMH
6' x 8' x 6'-4"
PROP ELEC
& COMM SERVICE
(BO-TYP)

PROP 1" WATER SERVICE (TYP-BO)

PROP 6" SEWER SERVICE (TYP-BO)

PROP 9-5" CONC
ENCASED ELEC CONDUIT

REM EXIST AC PIPE

PROP 2-4" ELECTRIC
SERVICE CONDUITS
(TYP) (B.O.)

PROP ELEC
HANDHOLE

PROP HYD

PROP 2-2"
COMM SERVICES
CONDUIT (TYP-BO)

TP #1

REM
HYDRANT

LOT 14
15,388± S.F
0.353± AC.

LOT 13
15,380± S.F
0.353± AC.

LOT 12
15,380± S.F
0.353± AC.

LOT 11
15,380± S.F
0.353± AC.

LOT 10
15,380± S.F
0.353± AC.

26-99-1600
NOW OR FORMERLY
MDFA/BOULDER HILL
24 CAVITE STREET
MSRD BOOK 26137 PAGE 3
PLAN 411 OF 1996
WCRD BOOK

## GENERAL NOTES:

1. ALL PROPOSED HANDHOLES SHALL BE 12" x 12", TYPE SD2-031
2. PROPOSED RESIDENTIAL WATER SERVICES SHALL BE INSTALLED FROM THE WATER MAIN TO THE PROPERTY LINE AND SHALL INCLUDE A CURB STOP AND SERVICE BOX AT OR NEAR THE PROPERTY LINE. SERVICES SHALL BE TERMINATED FOR FUTURE CONNECTION BY OTHERS.
3. PROPOSED SEWER SERVICE LATERALS SHALL BE INSTALLED FROM THE SEWER MAIN TO THE PROPERTY LINE AND SHALL BE TERMINATED WITH A WATERTIGHT CAPPED STUB FOR FUTURE CONNECTION BY OTHERS.
4. PROPOSED ELECTRIC CONDUITS SHALL BE INSTALLED TO THE PROPERTY LINE AND SHALL TERMINATE IN A 12" x 12" HANDHOLE (TYPE SD2-031) FOR FUTURE CONNECTION BY OTHERS.
5. PROPOSED COMMUNICATIONS CONDUITS SHALL BE INSTALLED TO THE PROPERTY LINE AND SHALL TERMINATE IN A 12" x 12" HANDHOLE (TYPE SD2-031) FOR FUTURE CONNECTION BY OTHERS.

0 20 50 100
SCALE: 1" = 20'

CONTINUED ON SHEET NO. 20

**DEVENS**
**ADAMS CIRCLE**
**DRAINAGE & UTILITY PLANS**
**SHEET 22 OF 39**

15812.15_HD(UTIL).DWG Plotted on 12-Feb-2026 2:59 PM

NAD 83

N

MHW–135
MHW–136
MHW–137
MHW–138
MHW–139
MHW–140
MHW–141
MHW–142
MHW–143
MHW–144

PARCEL B
188,011± S.F
4.316± AC.

LIMIT OF WETLAND 100' BUFFER ZONE

CONNECT TO EXIST WATER

PROP HYDRANT WITH 6" DIP & GATE VALVE

PROP 8" DI PIPE

ADAMS CIRCLE

EXISTING TOWN LAYOUT

PROP 199 LF - 15" RCP

PROP 8 LF - 12" RCP

PROP 4 LF - 12" RCP

PROP 156 LF - 18" RCP

PROP 19 LF - 10" DIP

PROP 100 LF - 15" DIP

PROP 13 LF - 10" DIP

PROP 8" DI WATER MAIN STUB

PROP RAIN GARDEN 1 (SEE SHEET 31 FOR DETAILS)

RET

CONNECT TO PROP DMH

PROP HYDRANT

PROP 6" DI PIPE WITH GATE VALVE

REM EXIST AC PIPE

PROP 8" DI PIPE

ADAMS CIRCLE B

PARCEL A
155,856± S.F
3.578± AC.

BENCHMARK:
BMK A BNCHTIE IN UP
ELEV: 252.40

CONTINUED ON SHEET NO. 21

CONTINUED ON SHEET NO. 23

**DRAINAGE STRUCTURE DATA**

| NO. | TYPE | STATION | RIM ELEV. | INV. ELEV. IN | INV. ELEV. OUT | REMARKS |
|---|---|---|---|---|---|---|
| 7 | PROP DMH | 22+32<br>4.7' RT | 250.00 | I=246.87' (15)<br>I=246.88' (16) | I=246.87' (14) | |
| 11 | PROP CB | 25+48.6<br>-10.0' LT | 249.63 | | I=245.80' (13) | |
| 13 | PROP DMH | 25+47.5<br>1.5' RT | 249.80 | I=245.32' (14)<br>I=245.45' (12)<br>I=245.69' (11) | I=245.32' (5) | |
| 14 | PROP DMH | 23+43.2<br>4.5' RT | 250.55 | I=246.40' (7) | I=246.40' (13) | |
| 15 | PROP CB | 22+15.5<br>9.9' RT | 249.81 | | I=246.97' (7) | |
| 16 | PROP CB | 22+14.3<br>-10.0' LT | 249.82 | | I=247.04' (7) | |

0 20 50 100
SCALE: 1" = 20'

**DEVENS**
**ADAMS CIRCLE**
**DRAINAGE & UTILITY PLANS**
**SHEET 23 OF 39**

15812.15_HD(UTIL).DWG Plotted on 12-Feb-2026 2:59 PM

NAD 83

N

| DRAINAGE STRUCTURE DATA | | | | | | |
|---|---|---|---|---|---|---|
| NO. | TYPE | STATION | RIM ELEV. | INV. ELEV. IN | INV. ELEV. OUT | REMARKS |
| 4 | PROP CB | 27+12.9<br>-78.8' LT | 244.87 | I=243.50' (31)<br>I=243.50' (34) | I=243.20' (6) | OVERFLOW FROM CONSTRUCTED WETLAND |
| 6 | PROP DMH | 27+01.9<br>-86.9' LT | 250.08 | I=243.00' (4) | | CONNECT TO EXIST 18" RCP |
| 29 | PROP CO | 27+08.5<br>23.6' RT | 248.50 | | I=245.00' (5) | DROP INLET TYPE A |
| 30 | PROP CO | 27+79.2<br>-49.3' LT | 246.00 | | I=243.50' (31) | UNDERDRAIN CLEANOUT |
| 31 | PROP CO | 27+12<br>-51.2' LT | 246.00 | I=243.50' (30) | I=243.50' (4) | UNDERDRAIN CLEANOUT |
| 32 | PROP CO | 27+90.1<br>-108.8' LT | 247.47 | I=243.50' (35) | I=243.50' (33) | UNDERDRAIN CLEANOUT |
| 33 | PROP CO | 27+33.3<br>-100.0' LT | 246.91 | I=243.50' (32) | I=243.50' (34) | UNDERDRAIN CLEANOUT |
| 34 | PROP CO | 27+16<br>-92.5' LT | 246.52 | I=243.50' (33) | I=243.50' (4) | UNDERDRAIN CLEANOUT |
| 35 | PROP CO | 27+97.6<br>-62.3' LT | 247.01 | | I=243.50' (32) | UNDERDRAIN CLEANOUT |

| DRAINAGE STRUCTURE DATA | | | | | | |
|---|---|---|---|---|---|---|
| NO. | TYPE | STATION | RIM ELEV. | INV. ELEV. IN | INV. ELEV. OUT | REMARKS |
| 5 | PROP DMH | 27+09.3<br>1.7' RT | 249.86 | I=244.58' (13)<br>I=244.58' (29) | I=244.58' (10) | |
| 8 | PROP DMH | 28+02.7<br>-7.6' LT | 249.18 | I=245.53' (20)<br>I=244.91' (19)<br>I=244.27' (9) | I=244.25' (10) | |
| 9 | PROP DMH | 29+70.7<br>17.3' RT | 251.34 | I=247.71' (18)<br>I=245.12' (2)<br>I=247.64' (17) | I=245.11' (8) | |
| 10 | PROP DMH | 27+91.7<br>-40.7' LT | 249.76 | I=244.07' (8)<br>I=244.07' (5) | I=244.07' (27) | |
| 11 | PROP CB | 25+48.6<br>-10.0' LT | 249.63 | | I=245.80' (13) | |
| 12 | PROP CB | 25+47.3<br>9.9' RT | 249.64 | | I=245.49' (13) | |

| DRAINAGE STRUCTURE DATA | | | | | | |
|---|---|---|---|---|---|---|
| NO. | TYPE | STATION | RIM ELEV. | INV. ELEV. IN | INV. ELEV. OUT | REMARKS |
| 13 | PROP DMH | 25+47.5<br>1.5' RT | 249.80 | I=245.32' (14)<br>I=245.45' (12)<br>I=245.69' (11) | I=245.32' (5) | |
| 17 | PROP CB | 29+80.1<br>8.1' RT | 251.62 | | I=247.79' (9) | |
| 18 | PROP CB | 29+67.1<br>-10.4' LT | 251.04 | | I=247.79' (9) | |
| 19 | PROP CB | 27+93.5<br>9.3' RT | 249.14 | | I=245.00' (8) | |
| 20 | PROP CB | 27+93.5<br>-9.9' LT | 249.13 | | I=245.68' (8) | |
| 27 | PROP FES | 27+87.4<br>-48.8' LT | 245.80 | I=244.00' (10) | | OUTLET INTO PROP ENGINEERED WETLAND |

0 20 50 100

SCALE: 1" = 20'

CONTINUED ON SHEET NO. 22

CONTINUED ON SHEET NO. 20

MHW-126 MHW-125 MHW-124 MHW-123 MHW-122 MHW-121 MHW-120 MHW-119 MHW-118 MHW-117 MHW-116 MHW-115 MHW-114 MHW-113 MHW1-112 MHW1-111 MHW1-110 MHW1-109 MHW1-108 MHW1-107 MHW1-106 MHW1-105 MHW1-104 MHW1-103 MHW1-102 MHW1-101 MHW1-100

PROP 27 LF - 6" CPP
PROP EROSION CONTROL (TYP)
PROP CONSTRUCTED WETLAND SPILLWAY
PROP 98 LF - 6" CPP
RET CONNECT TO EXIST 18" RCP
PROP 6" PERFORATED UNDERDRAIN
PROP 6" CLEANOUT
PROP 11 LF - 6" CPP
LIMIT OF WETLAND 100' BUFFER ZONE
PROP CONSTRUCTED WETLAND (SEE SHEET 29 FOR DETAILS)
PROP 16 LF - 12" RCP
PROP OUTLET CONTROL STRUCTURE
PROP 44 LF - 6" CPP
PROP 24 LF - 6" CPP
CONNECT TO EXIST WATER
PROP FLARED END SECTION
PROP 88 LF - 6" CPP
PROP 8 LF - 24" RCP
PROP 98 LF - 18" RCP
PROP 19 LF - 12" RCP
PROP 32 LF - 24" RCP
PROP HYDRANT WITH 6" DIP & GATE VALVE
ADAMS CIRCLE
PROP 156 LF - 18" RCP
PROP 8 LF - 12" RCP
PROP 199 LF - 15" RCP
PROP 4 LF - 12" RCP
BOTTOM OF BANK EL. 248.0'
TOP OF BANK EL. 249.1'
3.5' MINIMUM BOTTOM WIDTH
CURB INLET LOW POINT 249.1'
PROP 6 LF - 12" RCP
PROP 15 LF - 12" RCP
PROP 165 LF - 18" RCP
PROP RAIN GARDEN 1 (SEE SHEET 30 FOR DETAILS)
PROP 8" DI WATER MAIN STUB
CURB INLET LOW POINT 249.6'
PROP 24 LF - 12" RCP
PROP 9 LF - 12" RCP
PROP 125 LF - 18" RCP
EXISTING TOWN LAYOUT
TP#2 TP#3 TP#4 TP#5
REM
RET
PC +60.66
PT +70.83
26-10-101 NOW OR FORMERLY DAVID M. AND KEIKO DION 89 ADAMS CIRCLE WCRD BOOK 50303 PAGE 156 (LOT 17) PLAN BK 888 PLAN 59 OF 2011
26-10-102 NOW OR FORMERLY FRANK TESUNG LIN CHI HSU YU 93 ADAMS CIRCLE WCRD BOOK 48058 PAGE 308 (LOT 21) PLAN BK 888 PLAN 59 OF 2011
26-10-103 NOW OR FORMERLY MESUN B. DEMISSIE HIIINA T. HAILEMARIAM 97 ADAMS CIRCLE WCRD BOOK 49073 PAGE 349 (LOT 3) PLAN BK 888 PLAN 59 OF 2011

**DEVENS**
**ADAMS CIRCLE**
**LIGHTING PLANS**
**SHEET 24 OF 39**

15812.15_HD(LIGHT).DWG Plotted on 12-Feb-2026 3:02 PM

CONTINUED ON SHEET NO. 23

PARCEL A
155,856± S.F
3.578± AC.

NAD 83

N

① WIRE SCHEDULE
4#6 & 1#6 GND

L4 | STA 16+24 | 17' | RT

L2 | STA 14+53 | 17' | RT

L3 | STA 15+28 | 24' | LT

L1 | STA 13+33 | 25' | LT

PROP STREET LIGHT (TYP)

PROP LP CONDUIT (TYP)

PROP LIGHTING HANDHOLE (TYP)

PROP LIGHTING CONTROLLER PROP EMH

PROP HH (TYP)

PROP 6" DIP & WG

REM (BO)

PROP EMH

PROP LIGHTING CONDUIT (TYP)

PROP 2-4" ELECTRIC SERVICE CONDUITS (TYP)

PROP 2-5" CONC ENCASED ELEC CONDUIT (TYP)

PROP ELECTRIC RISER UP

PROP STREET LIGHT (TYP)

PROP LIGHTING HANDHOLE (TYP)

ADAMS CIRCLE

ADAMS CIRCLE B

EXISTING 25' UTILITY EASEMENT

EXISTING UTILTY EASEMENT

LOT 11
15,380± S.F
0.353± AC.

LOT 10
15,380± S.F
0.353± AC.

LOT 9
15,380± S.F
0.353± AC.

26-99-1600
NOW OR FORMERLY
MDFA/BOULDER HILL
24 CAVITE STREET
MSRD BOOK 26137 PAGE 3
PLAN 411 OF 1996
WCRD BOOK 17907 PAGE 1
PLAN BK 703
PLAN 112 OF 1996
(PARCEL "1")

26-99-1601
NOW OR FORMERLY
MDFA
18 CAVITE STREET
MSRD BOOK 26137 PAGE 3
PLAN 411 OF 1996
WCRD BOOK 17907 PAGE 1
PLAN BK 703
PLAN 112 OF 1996
PLAN BK 872
PLAN 102 OF 2009
(LOT BV-1)

26-10-103
NOW OR FORMERLY
MESFIN B. DEMISSIE
ILINA T. HAILEMARIAM
97 ADAMS CIRCLE
WCRD BOOK 49073
PAGE 349
(LOT 3)
PLAN BK 888
PLAN 59 OF 2011

26-10-104
NOW OR FORMERLY
SURYA & POORNAMACHARY SENTHIL
14 ADAMS CIRCLE
WCRD BOOK 49920
PAGE 333
(LOT 4)
PLAN BK 888
PLAN 59 OF 2011

26-10-105
NOW OR FORMERLY
HAIBO & JIE LUO MAO
8 ADAMS CIRCLE
WCRD BOOK 50682
PAGE 257
(LOT 5)
PLAN BK 888
PLAN 59 OF 2011

26-10-106
NOW OR FORMERLY
DANIEL MCGAHN
2 ADAMS CIRCLE
WCRD BOOK 49668
PAGE 377
(LOT 6)
PLAN BK 888
PLAN 59 OF 2011

0 20 50 100
SCALE: 1" = 20'

**DEVENS**
**ADAMS CIRCLE**
**LIGHTING PLANS**
**SHEET 25 OF 39**

15812.15_HD(LIGHT).DWG Plotted on 12-Feb-2026 3:02 PM

NAD 83

N

① WIRE SCHEDULE
4#6 & 1#6 GND

ADAMS CIRCLE ℄

ADAMS CIRCLE ℄

BARNUM ROAD
CONNECTION ℄

PROP EMH

PROP STREET
LIGHT (TYP)

PROP LIGHTING
HANDHOLE (TYP)

REM (BO)

PROP EMH

PROP ELEC
& COMM SERVICE
(BO-TYP)

PROP 9-5" CONC
ENCASED ELEC CONDUIT

PROP EMH
WITH TRANSFORMER

PROP LP
CONDUIT
(TYP)

PROP LIGHTING
HANDHOLE (TYP)

PROP STREET
LIGHT (TYP)

PROP LIGHTING
CONTROLLER
PROP
EMH

REM (BO)

PROP EMH

PROP
LIGHTING
CONDUIT
(TYP)

PROP 2-4" ELECTRIC
SERVICE CONDUITS
(TYP)

| L6 | |
|---|---|
| STA 18+34 | |
| 18' | RT |

| L4 | |
|---|---|
| STA 16+24 | |
| 17' | RT |

| L2 | |
|---|---|
| STA 14+53 | |
| 17' | RT |

| L7 | |
|---|---|
| STA 19+33 | |
| 20' | LT |

| L5 | |
|---|---|
| STA 17+33 | |
| 22' | LT |

| L3 | |
|---|---|
| STA 15+28 | |
| 24' | LT |

PARCEL A
155,856± S.F
3.578± AC.

LOT 14
15,388± S.F
0.353± AC.

LOT 13
15,380± S.F
0.353± AC.

LOT 12
15,380± S.F
0.353± AC.

LOT 11
15,380± S.F
0.353± AC.

LOT 10
15,380± S.F
0.353± AC.

26-99-1600
NOW OR FORMERLY
MDFA/BOULDER HILL
24 CAVITE STREET
MSRD BOOK 26137 PAGE 3
PLAN 411 OF 1996

BENCHMARK-
BMK A BNGHTIE IN UP
ELEV= 252.40'

AQUIFER

PROPOSED DUPLEX

GAS PAINT MARKS LOCATED IN FIELD

0 20 50 100
SCALE: 1" = 20'

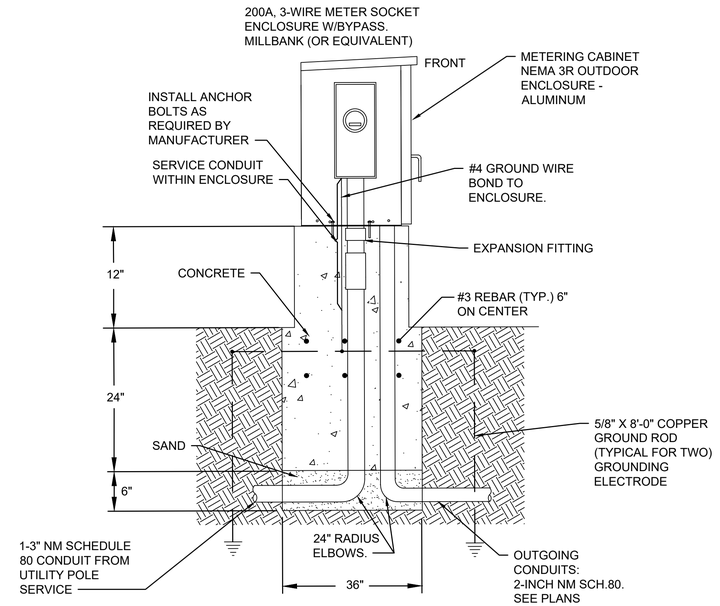
CONTINUED ON SHEET NO. 26

## GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE MASSACHUSETTS STATE ELECTRICAL CODE 12.00 CMR, DEVENS INSPECTIONAL STANDARDS AND LOCAL CODES. PAY FOR AND OBTAIN ALL PERMITS.
2. ALL MATERIALS AND INSTALLATION FOR ELECTRICAL SERVICE SHALL CONFORM TO THE REQUIREMENTS OF THE SERVING UTILITY. PAY FOR AND OBTAIN ALL PERMITS/FEES.
3. ALL MATERIAL SHALL BE NEW. ALL LIGHTING WORK SHALL CONFORM WITH SECTION 800 OF THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, MASSACHUSETTS HIGHWAY DEPARTMENT, EXCEPT WHERE OTHERWISE INDICATED
4. LIGHT POLE FOUNDATIONS SHALL CONFORM TO THE RELEVANT PROVISIONS OF SECTION 800 OF THE MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES EXCEPT AS INDICATED. PROVIDE ½" BOND BREAKER BETWEEN FOUNDATION AND CONCRETE WALK. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.
5. HANDHOLES SHALL CONFORM TO THE RELEVANT PROVISIONS OF SECTION 800 OF THE MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.
6. UNDERGROUND RACEWAY INSTALLATION SHALL CONFORM TO SECTION 800. ROADWAY CROSSING SHALL BE GALVANIZED RIGID STEEL (RM) BURIED 36" BELOW TOP OF ROADWAY AND TERMINATE IN A HANDHOLE ON EACH SIDE OF CROSSING. ALL OTHER RACEWAYS SHALL BE NON-METALLIC (NM) AND BURIED A MINIMUM OF 30" BELOW TOP OF SIDEWALK.
7. ALL LIGHT POLES SHALL BE ANCHOR TYPE WITHOUT BREAKAWAY COUPLINGS.
8. ALL SPARE RACEWAYS SHALL BE FURNISHED WITH A PULL ROPE.
9. THE TOP POLE BRACKET AND ARM SHALL BE ORIENTED 90 DEGREES TO THE BASELINE OF ROADWAY. THE MID POLE BRACKET SHALL BE ORIENTED 180 DEGREES OPPOSITE THE TOP POLE BRACKET. THE CONTRACTOR SHALL COORDINATE POLE BASE PLATE, ANCHOR BOLT PATTERN CONDUIT ENTRY AND FOUNDATION PLACEMENT TO OBTAIN THE REQUIRED ORIENTATION.
10. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL FOR ALL ELECTRICAL AND LIGHTING MATERIALS, EQUIPMENT, COMPONENTS AND TEST RESULTS AND SHALL INCLUDE MANUFACTURER'S PRODUCT CATALOG DATA.
11. FINAL POSITION OF LIGHT POLES AND HANDHOLES SHALL NOT BE LOCATED WITHIN THE SIDEWALK TRIM BAND OR TREE PLANTING AREAS. HANDHOLES SHALL NOT BE PLACED IN ROADWAYS, SIDEWALK ACCESSIBILITY RAMPS OR DRIVEWAYS.
12. WHERE REQUIRED TO AVOID EXISTING UTILITIES, THE CONTRACTOR SHALL BE PERMITTED IN THE FIELD TO ADJUST THE LOCATION OF LIGHT POLES UP TO 1'-6" IN ANY DIRECTION EXCEPT TOWARD THE CURB. ADJUSTMENTS BEYOND THESE LIMITS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
13. WHERE REQUIRED TO AVOID EXISTING UTILITIES, THE CONTRACTOR SHALL BE PERMITTED IN THE FIELD TO ADJUST THE LOCATION OF HANDHOLES UP TO 5'-0" IN ANY DIRECTION FROM THAT INDICATED. ADJUSTMENTS BEYOND THESE LIMITS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
14. WHERE CONDUIT INSTALLATION, ADJUSTED FOR EXISTING UTILITIES CANNOT BE SO INSTALLED TO MAINTAIN A MAXIMUM OF 270 DEGREES OF BENDS BETWEEN PULL POINTS (HANDHOLES OR POLE BASES), THE CONTRACTOR SHALL INSTALL AN INTERMEDIATE HANDHOLE.

## ABBREVIATIONS (LIGHTING PLANS)

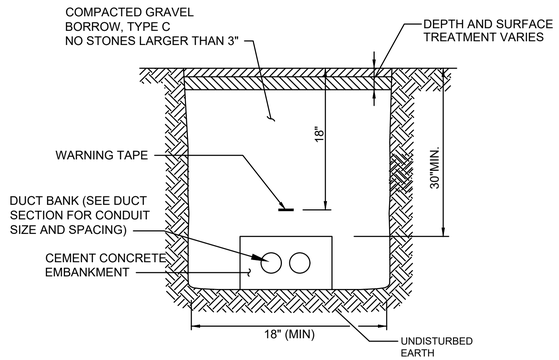
| | |
|---|---|
| C | CONDUIT |
| CU | COPPER |
| EX | EXISTING |
| HH | HANDHOLE |
| LED | LIGHT EMITTING DIODE |
| LP | LIGHT POLE |
| MH | MOUNTING HEIGHT |
| PB | PULLBOX |
| TYP | TYPICAL |
| UON | UNLESS OTHERWISE NOTED |

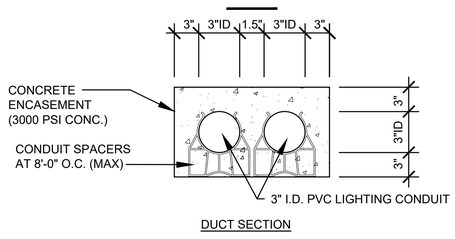



ELEVATION VIEW

## STREET LIGHT CONTROLLER INSTALLATION DETAIL

SCALE: N.T.S.



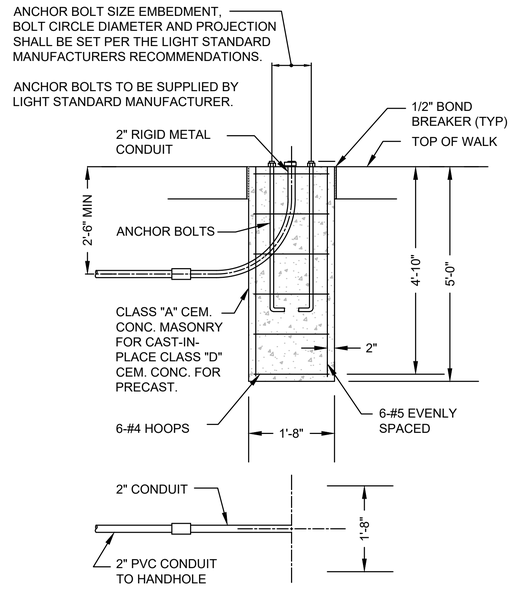




DUCT SECTION

**NOTES:**
1. BURIAL DEPTHS FOR CONDUIT SHALL BE MAINTAINED NOT LESS THAN 30" FROM THE TOP OF THE CONCRETE ENCASEMENT TO GRADE DURING ALL PHASES OF CONSTRUCTION.
2. USE METALLIC TRACING/WARNING TAPE OVER ALL DUCTS.
3. MULTIPLE DUCT BANKS LAID WITHIN THE SAME TRENCH SHALL BE SEPARATED BY AT LEAST A SHEET OF PLYWOOD.

## TYPICAL LIGHTING DUCT BANK TRENCH SECTION

SCALE: NTS

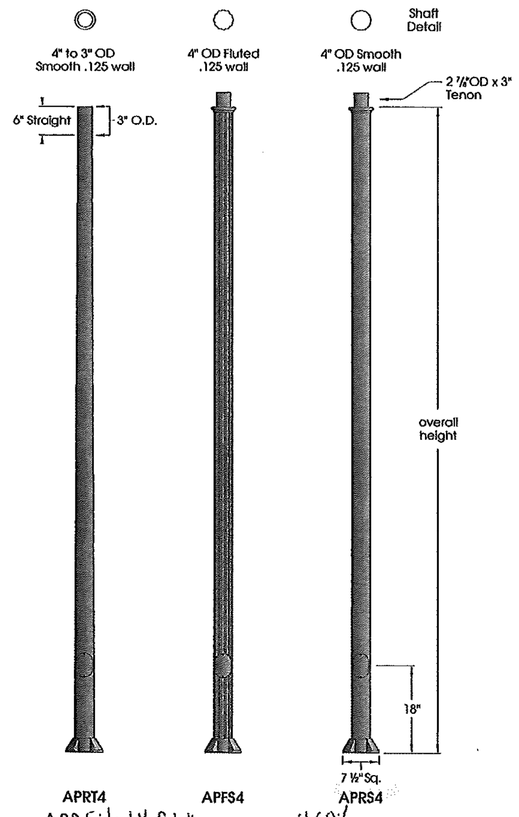



## STREET LIGHT STANDARD FOUNDATION

SCALE: N.T.S.

# 4" Extruded Series

U.1.11.16




APRS4-14 BLK 4 COV

| APRT4 | APFS4 | APRS4 | Overall Height | Finish | Accessories |
|---|---|---|---|---|---|
| APRT4-08 | APFS4-08 | APRS4-08 | 8'-0" | BLK<br>CLB<br>GBZ<br>GRN<br>GTB<br>TBK<br>TGR | 4-COV<br>BA18<br>BA24<br>FPH-4<br>FPH-5<br>GFCI |
| APRT4-10 | APFS4-10 | APRS4-10 | 10'-0" | | |
| APRT4-12 | APFS4-12 | APRS4-12 | 12'-0" | | |
| APRT4-14 | APFS4-14 | APRS4-14 | 14'-0" | | |
| APRT4-16 | APFS4-16 | APRS4-16 | 16'-0" | | |

See next page for more complete accessory options

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**Features:**
7 ½" square cast aluminum base flange

Choice of extruded shafts (.125 wall)
- 4" to 3" tapered smooth
- 4" OD fluted (12 flutes)
- 4" OD smooth round

Extruded shaft is circumferentially welded to the base

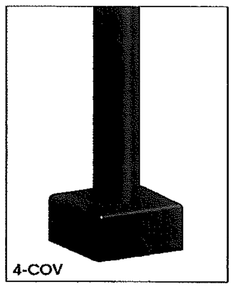
A 2x4" handhole with curved lap style aluminum door and two stainless steel self-tapping screws is standard. A grounding provision incorporating a tapped ¼" 20NC hole is provided opposite the handhole.

Ground lug provided inside base

**Materials:**
Base - Cast aluminum (356-T6)
Shaft - Extruded Aluminum (6063-T6)
- Tapered Aluminum (6063-T6)
Anchor Bolts - Hot dipped galvanized steel

**Finish:**
Premium quality thermoset polyester powdercoat for a durable finish.

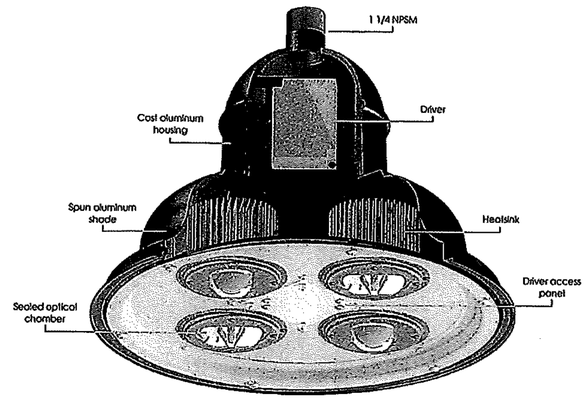
POWDER COATED TOUGH



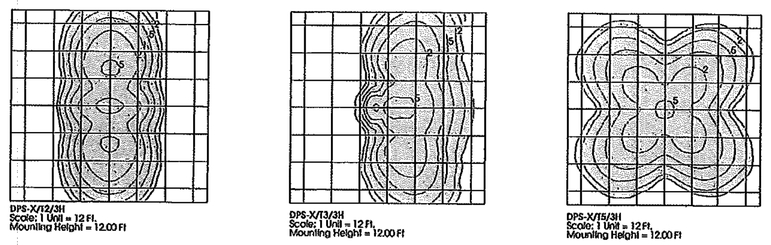

Part String

Example: APRT4-10/BLK

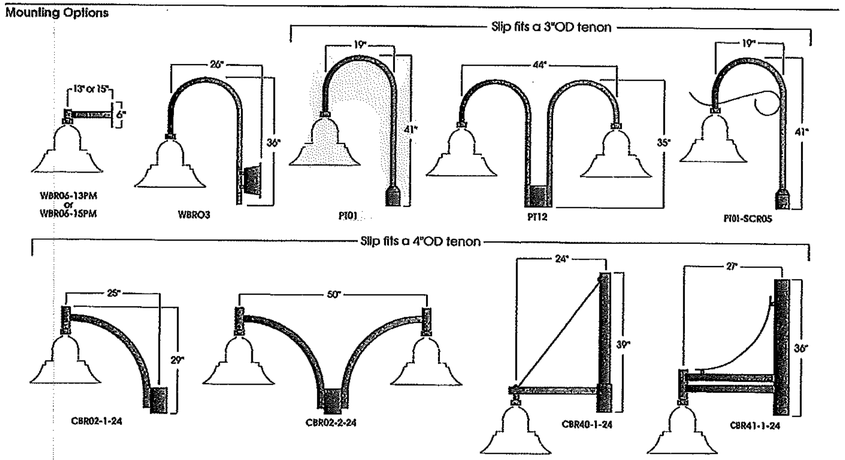
amerlux

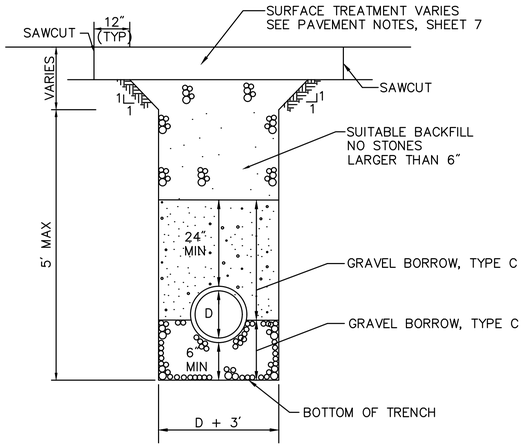



## Typical Photometry



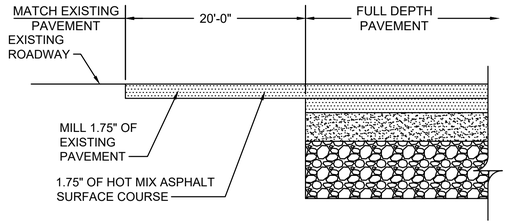

## Mounting Options






## DRAINAGE/SEWER TRENCH DETAIL - FULL DEPTH PAVEMENT

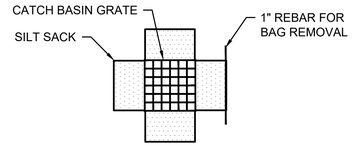
SCALE: N.T.S.



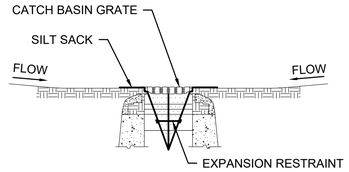

LONGITUDINAL SECTION

## FULL DEPTH PAVEMENT TRANSITION

SCALE: N.T.S. DWG: PVMT-03 DATE: OCT. 2012




PLAN VIEW

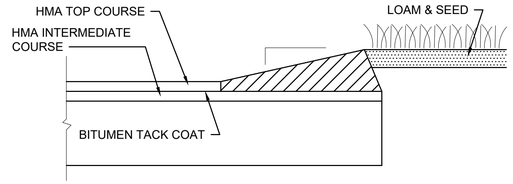



SECTION VIEW

NOTES:
1. INSTALL SILT SACK IN EXISTING CATCH BASINS, BEFORE COMMENCING WORK, AND IN NEW CATCH BASINS IMMEDIATELY AFTER INSTALLATION OF STRUCTURE. MAINTAIN UNTIL BINDER COURSE PAVING IS COMPLETE OR A PERMANENT STAND OF GRASS HAS BEEN ESTABLISHED.
2. GRATE TO BE PLACED OVER SILT SACK.
3. SILT SACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED

## INLET PROTECTION - SILT SACK IN CATCH BASIN

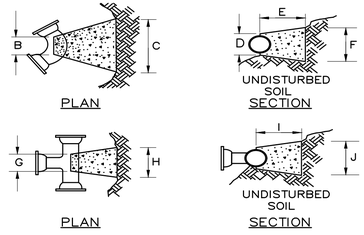
SCALE: N.T.S.




## HMA BERM TYPE A-MODIFIED (USED WITH RECLAIM)

SCALE: N.T.S.

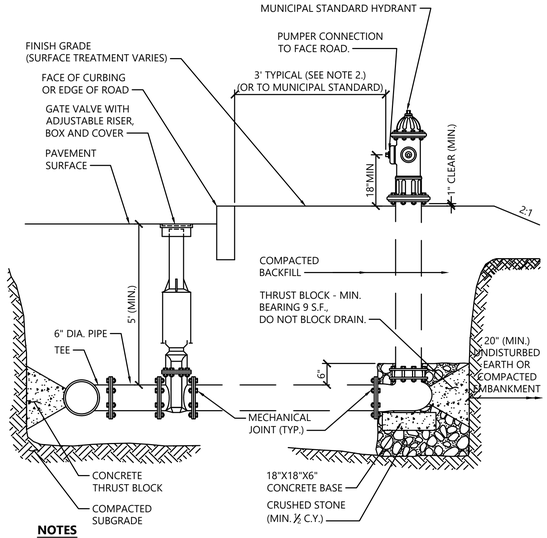
| BENDS | B | C | D | E | F | BENDS | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6" 11-1/4° | 8" | 15" | 12" | 24" | 12" | 6" 45° | 8" | 30" | 12" | 24" | 14" |
| 6" 22-1/2° | " | 19" | " | " | 13" | 6" 90° | " | 30" | " | " | 27" |
| 8" 11-1/4° | " | 20" | " | " | 12" | 8" 45° | " | 30" | " | " | 24" |
| 8" 22-1/2° | " | 22" | " | " | 17" | 8" 90° | " | 38" | " | " | 36" |
| 12" 11-1/4° | " | 30" | " | " | 15" | 12" 45° | " | 40" | " | " | 40" |
| 12" 22-1/2° | " | 35" | " | " | 25" | 12" 90° | " | 60" | " | " | 52" |
| TEES | G | H | I | J | | TEES | G | H | I | J | |
| 6"x 6"x 6" | 12" | 24" | 24" | 18" | | 12"x12"x6" | 12" | 24" | 24" | 12" | |
| 8"x 8"x 6" | " | " | " | " | | 12"x12"x8" | " | " | " | 24" | |
| 8"x 8"x 8" | " | " | " | 24" | | 12"x12"x12" | " | 36" | " | 36" | |




NOTES:
1. PROVIDE BLOCKS FOR TAPPING SLEEVES, DEAD ENDS, GATE VALVES AND VERTICAL BENDS, SAME SIZE AS REQUIRED FOR TEES.
2. PROVIDE ANCHOR RODS AT VERTICAL BENDS AND GATE VALVES
3. CONCRETE SHALL NOT BE PLACED AGAINST PIPE BEYOND FITTING.

## CONCRETE THRUST BLOCK

SCALE: NTS



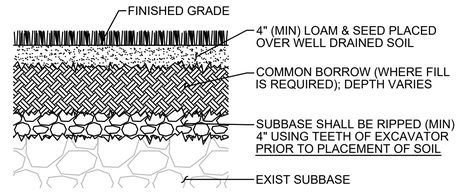

**NOTES**

1. CONCRETE THRUST BLOCKS TO BE USED ONLY WHERE THEY CAN BEAR ON UNDISTURBED EARTH AS SHOWN. USE CLAMPS AND TIE RODS OR OTHER ACCEPTABLE METHOD OF JOINT RESTRAINT WHERE SOIL CONDITIONS PROHIBIT THE USE OF THRUST BLOCKS.
2. HYDRANT IN SIDEWALK AREAS TO BE LOCATED TO PROVIDE MINIMUM CLEAR SIDEWALK PASSAGE WIDTH OF 4 FEET AT HYDRANT.
3. A 36-INCH CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT UNLESS OTHERWISE APPROVED BY DEVENS WATER DEPARTMENT.

## Hydrant Construction

12/19

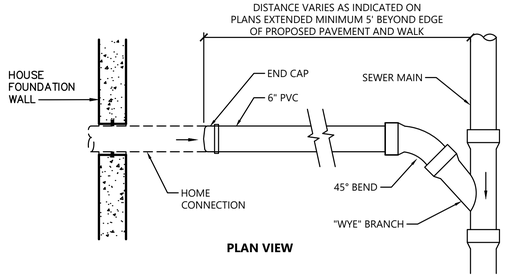
N.T.S. Source: VHB REV LD_250



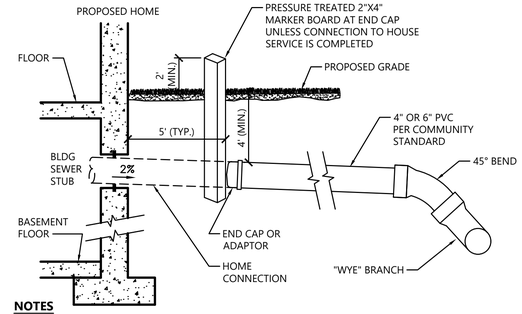

NOTE
ALL EXISTING ASPHALT SHALL BE STRIPPED AND REMOVED PROPT TO TILLING. ASPHALT SHALL NOT BE MIXED WITH THE SUBBASE.

## LAWN IN FORMER PAVED AREAS

SCALE: NTS




**PLAN VIEW**




**ELEVATION VIEW**

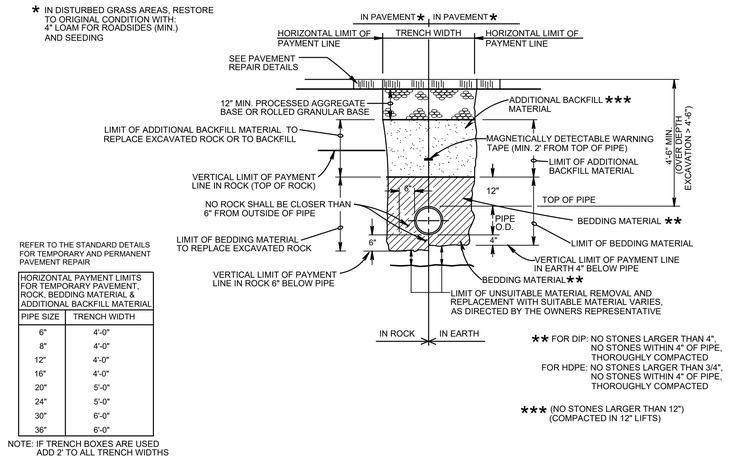
**NOTES**

1. PIPE AND FITTING MATERIALS TO BE PVC SDR35, MEETING ASTM 3034 FOR USE WITH SANITARY SEWER SYSTEMS.
2. ADAPTOR TO BE PREMANUFACTURED UNIT FOR CONNECTION OF PIPE TYPES

## Typical Sewer Wye Connection (Residential)

1/16

N.T.S. Source: VHB LD_223




REFER TO THE STANDARD DETAILS FOR TEMPORARY AND PERMANENT PAVEMENT REPAIR

| HORIZONTAL PAYMENT LIMITS FOR TEMPORARY PAVEMENT, ROCK, BEDDING MATERIAL & ADDITIONAL BACKFILL MATERIAL | |
|---|---|
| PIPE SIZE | TRENCH WIDTH |
| 6" | 4'-0" |
| 8" | 4'-0" |
| 12" | 4'-0" |
| 16" | 4'-0" |
| 20" | 5'-0" |
| 24" | 5'-0" |
| 30" | 6'-0" |
| 36" | 6'-0" |

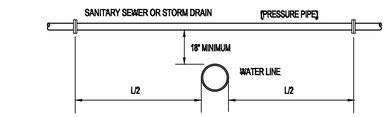
NOTE: IF TRENCH BOXES ARE USED ADD 2' TO ALL TRENCH WIDTHS

** FOR DIP: NO STONES LARGER THAN 4", NO STONES WITHIN 4" OF PIPE, THOROUGHLY COMPACTED
FOR HDPE: NO STONES LARGER THAN 3/4", NO STONES WITHIN 4" OF PIPE, THOROUGHLY COMPACTED

*** (NO STONES LARGER THAN 12") (COMPACTED IN 12" LIFTS)

## Water Trench

N.T.S. Source: VHB



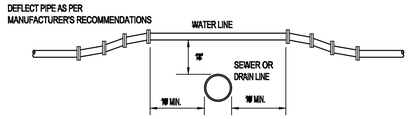

## Residential Water Service Connection

N.T.S. Source: VHB




NOTE:
WHERE WATER LINE PASSES BENEATH SEWER LINE OR STORM DRAIN, THE JOINTS OF THE PIPE SHALL BE A MIN. OF 10' FROM THE POINT OF CROSSING.

CROSSING OF WATER LINE UNDER SANITARY SEWER OR STORM DRAIN

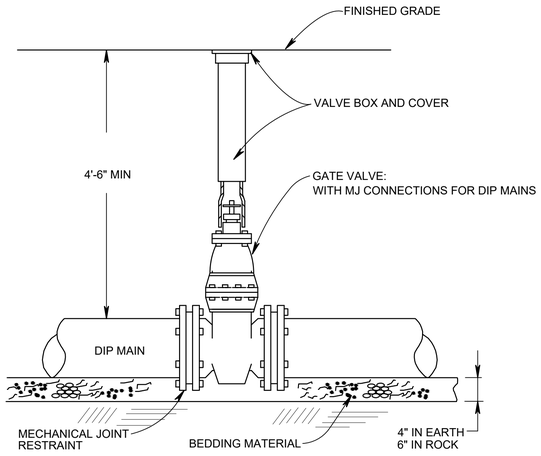



NOTE:
FOR ANY CONDITIONS OTHER THAN SHOWN ABOVE THE FOLLOWING REQUIREMENTS SHALL BE MET. THE JOINTS OF THE SANITARY SEWER OR STORM DRAIN SHALL BE A MINIMUM OF 10' FROM THE POINT OF CROSSING.

CROSSING OF WATER LINE OVER SANITARY SEWER OR STORM DRAIN

## Utility Crossing

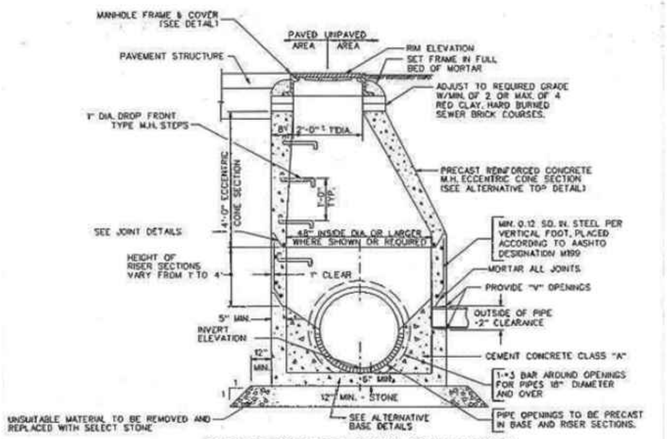
N.T.S. Source: VHB



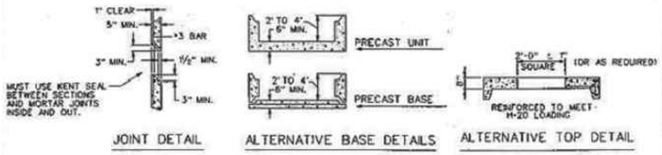

NOTE: ONLY INSTALLED ON MAINS 8" AND SMALLER

## Gate Valve & Gate Box

N.T.S. Source: VHB



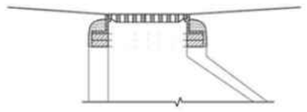

PRECAST CONCRETE STORM DRAIN MANHOLE



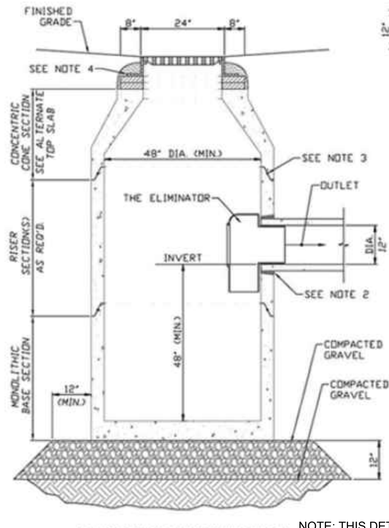

JOINT DETAIL ALTERNATIVE BASE DETAILS ALTERNATIVE TOP DETAIL

NOTE: THIS DETAIL CAN BE FOUND IN THE DEVENS ENTERPRISE COMMISSION 974 CMR 2.00 SUBDIVISION 2.09: APPENDIX B FIGURE I

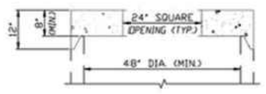
PRECAST CONCRETE MANHOLE
N.T.S.



ALTERNATE ECCENTRIC CONE SECTION




CATCH BASIN (CB) WITH TRAP

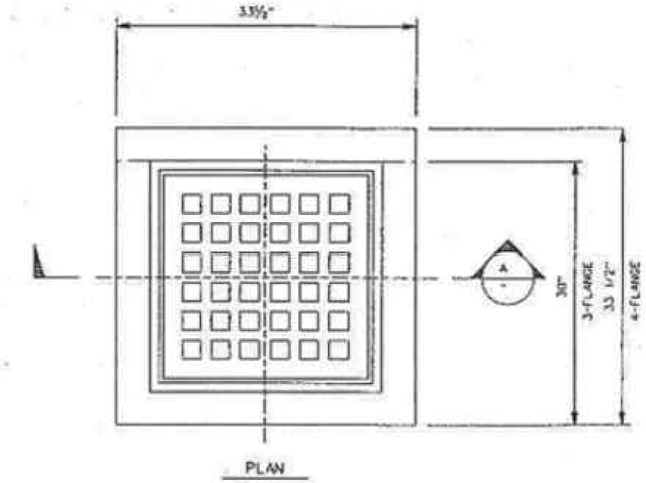



ALTERNATE TOP SLAB

Notes:

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
4. CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM.
5. HOOD SHALL BE "THE ELIMINATOR" OIL & FLOATING DEBRIS TRAP AS MANUFACTURED BY GROUND WATER RESCUE, INC., QUINCY, MA., TEL. 617-773-1128 ON THE WEB @ WWW.KLEANSTREAM.COM or APPROVED EQUAL

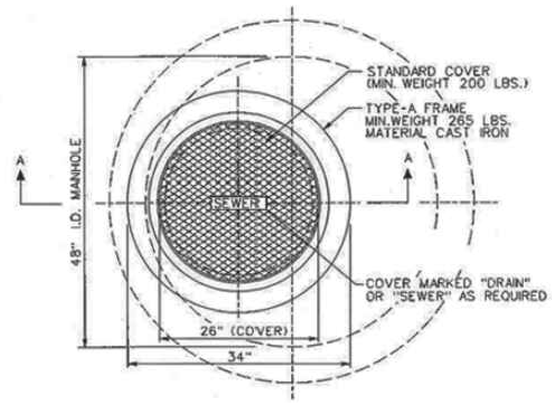
NOTE: THIS DETAIL CAN BE FOUND IN THE DEVENS ENTERPRISE COMMISSION 974 CMR 2.00 SUBDIVISION 2.09: APPENDIX B FIGURE H

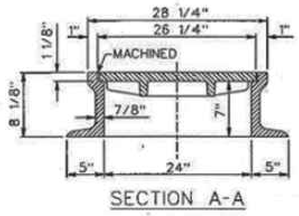



LEBARON FOUNDRY CAT. NO. LF248-2 OR APPROVED EQUAL (FOUR OR THREE FLANGE DEPENDANT UPON CONSTRUCTION)

CATCH BASIN FRAME AND GRATE DETAIL
N.T.S.

NOTE: THIS DETAIL CAN BE FOUND IN THE DEVENS ENTERPRISE COMMISSION 974 CMR 2.00 SUBDIVISION 2.09: APPENDIX B FIGURE F



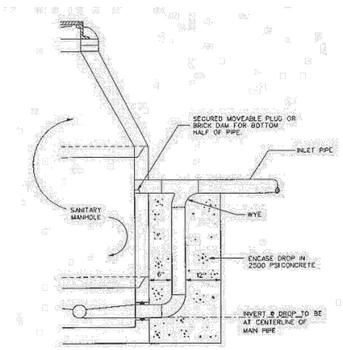

SECTION A-A

STANDARD MANHOLE FRAME & COVER
N.T.S.

NOTE: THIS DETAIL CAN BE FOUND IN THE DEVENS ENTERPRISE COMMISSION 974 CMR 2.00 SUBDIVISION 2.09: APPENDIX B FIGURE J

974 CMR: DEVENS ENTERPRISE COMMISSION

2.09: Appendix B - Figure K-1



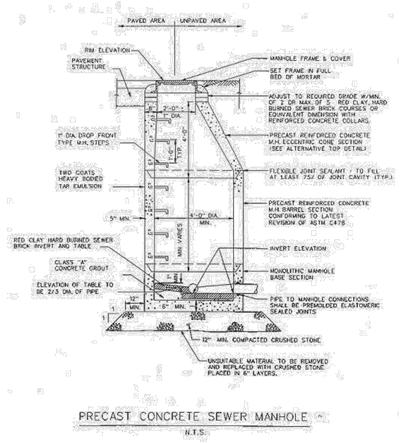

DROP INLET DETAIL
FOR SANITARY SEWER M.H.
N.T.S.

Note: Contact Devens Utilities Department for additional details/requirements.

NOTE: THIS DETAIL CAN BE FOUND IN THE DEVENS ENTERPRISE COMMISSION 974 CMR 2.00 SUBDIVISION 2.09: APPENDIX B FIGURE K-1

974 CMR: DEVENS ENTERPRISE COMMISSION

2.09: Appendix B - Figure K-2

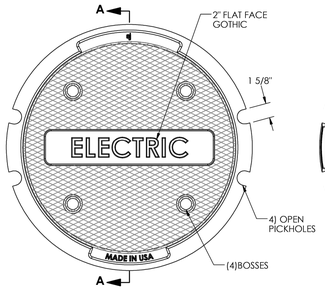


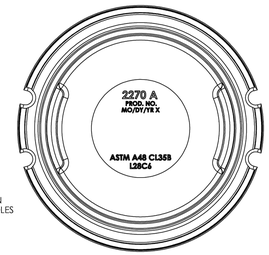

PRECAST CONCRETE SEWER MANHOLE
N.T.S.

Note: Contact Devens Utilities Department for additional details/requirements.

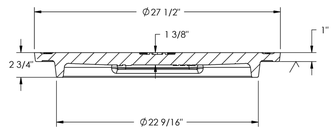
NOTE: THIS DETAIL CAN BE FOUND IN THE DEVENS ENTERPRISE COMMISSION 974 CMR 2.00 SUBDIVISION 2.09: APPENDIX B FIGURE K-2

## 2270 Cover




BOTTOM VIEW




SECTION A-A

**Product Number**
00227029

**Design Features**
-Materials
Gray Iron (CL35B)
-Design Load
Extra Heavy Duty
-Open Area
n/a
-Coating
Undipped
-√ Designates Machined Surface

**Certification**
-ASTM A48
-
-
-Country of Origin: USA

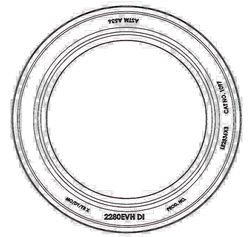
**Drawing Revision**
3/9/2010 Designer: JU
9/10/2013 Revised By: DAE

**Disclaimer**
Weights (lbs/kg), dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

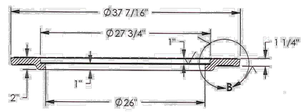


**Contact**
800 626 4653
ejco.com

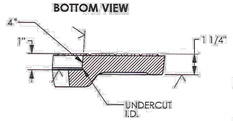
## 2280EVH Cover


BOTTOM VIEW




SECTION A-A




DETAIL B
SCALE 1 : 4

**Product Number**
00228061

**Design Features**
-Materials
Ductile Iron (70-50-05)
-Design Load
Heavy Duty
-Open Area
n/a
-Coating
Undipped
-√ Designates Machined Surface

**EST WT:**
165 LBS

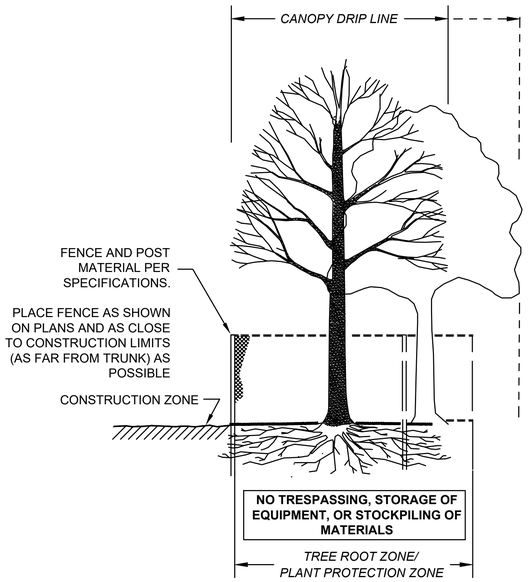
**Certification**
-ASTM A536
-
-
-Country of Origin: USA

**Drawing Revision**
10/29/2009 Designer: DEW
05/24/2012 Revised By: DEF

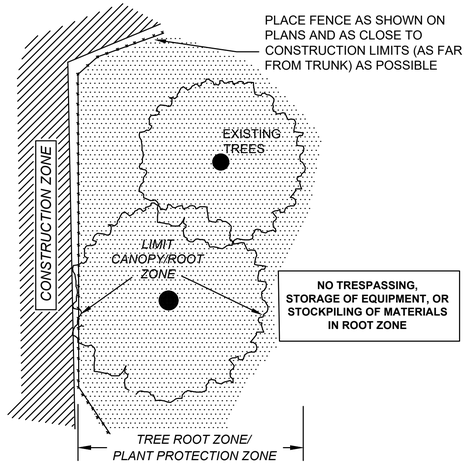
**Disclaimer**
Weights (lbs/kg), dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.



**Contact**
800 626 4653
ejco.com



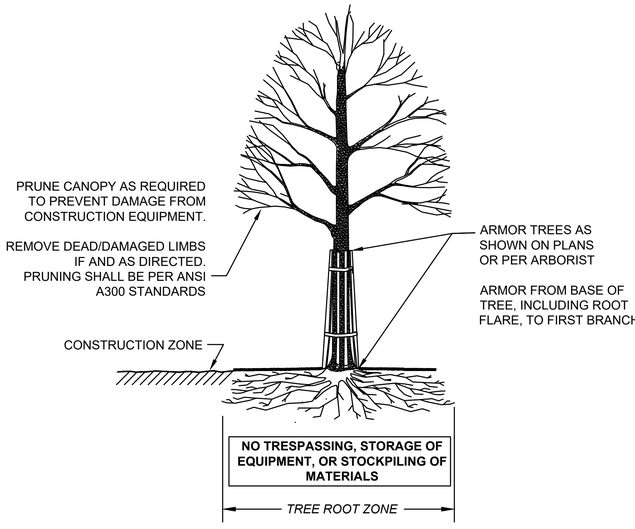

*SECTION - FENCE PROTECTION OF ROOT ZONE*




*PLAN VIEW - FENCE PROTECTION OF ROOT ZONE*

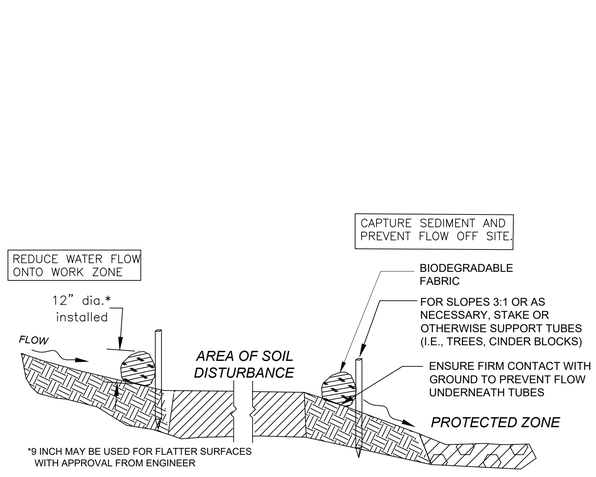
## TREE PROTECTION ROOT ZONE

NOT TO SCALE




*SECTION - TRUNK ARMORING & PRUNING*

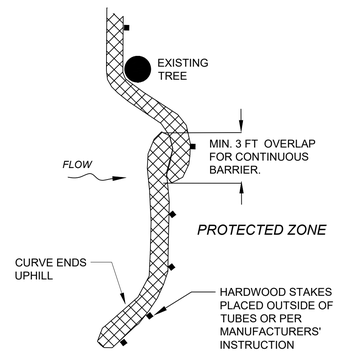
## TREE PROTECTION TRUNK




*SECTION*

## SEDIMENT BARRIERS - COMPOST FILTER TUBES

NOT TO SCALE




PLACE TUBE ALONG CONTOURS AND PERPENDICULAR TO FLOW.

PLACE AS CLOSE TO LIMIT OF SOIL DISTURBANCE AS POSSIBLE

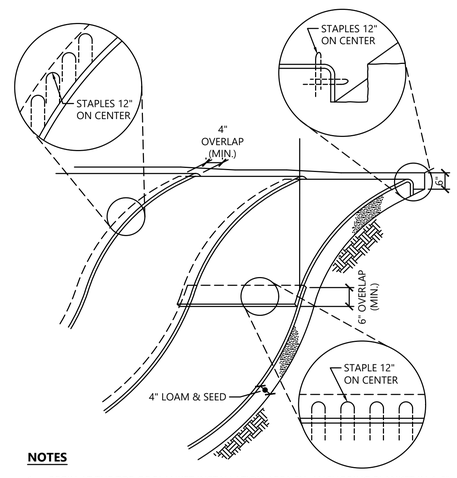
ADJUST LOCATION AS REQUIRED FOR OPTIMUM EFFECTIVENESS. DO NOT INSTALL IN WATERWAYS.

PLACE STAKES AS NEEDED TO SECURE TUBES IN PLACE.

*PLAN VIEW*

## SEDIMENT BARRIERS

NOT TO SCALE




**NOTES**

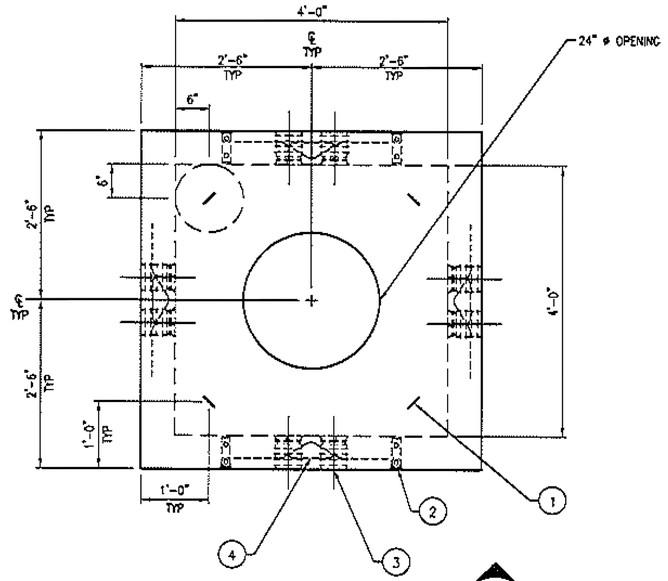
1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
2. THE EDGES OF BLANKETS MUST BE FASTENED WITH APPROX. 6 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
3. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE UPPER BLANKET END OVER LOWER END WITH 6 INCH (MIN.) OVERLAP AND STAPLE BOTH TOGETHER.
4. METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
5. EROSION CONTROL BLANKETS SHALL BE 100% BIODEGRADABLE WITH MINIMUM $\frac{1}{4}$" OPENINGS.
6. ANCHORING DEVICES SHALL CONSIST OF MINIMUM 8" BIO-DEGRADABLE STAKES.
7. EROSION CONTROL BLANKETS SHALL BE USED IN ALL AREAS WHERE SLOPES EXCEED 3:1.

**Stabilized Turf Mat** 10/20

N.T.S. **Source: VHB** REV **LD_680**

## EROSION CONTROLS

SCALE: N.T.S.



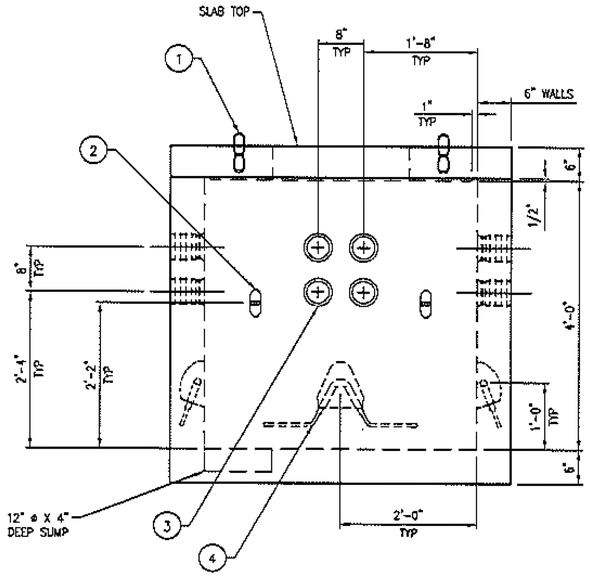

PLAN VIEW
SCALE: 1/2" = 1'-0"

A
1

| BILL OF MATERIALS ~ TOP SLAB | | | |
|---|---|---|---|
| # | QTY | DESCRIPTION | ITEM CODE # |
| 1 | 4 | RED TAG LIFTER | |
| | 0.4 CY | 5000 PSI CONCRETE MIX # 32 | 5005010 |

| BILL OF MATERIALS ~ BOTTOM SECTION | | | |
|---|---|---|---|
| # | QTY | DESCRIPTION | ITEM CODE # |
| 2 | 4 | BURKE 4 TON TECH ANCHOR w/ 48" LG. #4 BAR | 5401020 |
| 3 | 16 | 5" Ø TERMADUCT | 5447400 |
| 4 | 4 | PLASTIC RECESSED PULLEYE | 5413100 |
| | 1.8 CY | 5000 PSI CONCRETE MIX # 32 | 5005010 |

MATERIAL NOTES
CONCRETE MINIMUM STRENGTH – 5000 PSI @ 28 DAYS
STEEL REINFORCEMENT – ASTM A615, GRADE 60
COVER TO STEEL – 1" OR AS OTHERWISE NOTED




PLAN VIEW
SCALE: 1/2" = 1'-0"

ALL WALLS ARE THE SAME

APPROX. WT TOP SLAB = 0.8 TONS
APPROX. WT. BOTTOM SECTION = 3.7 TONS

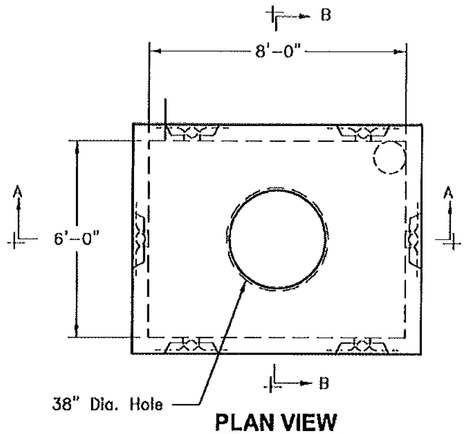
Oldcastle Precast®
NEW ENGLAND - AUBURN, ME. - AVON, CT. - REHOBOTH, MA.
PHONE: 800-336-7500 FAX: 888-336-7707



4' X 4' X 4'-0" COMMUNICATION VAULT
4'X 4' X 4'-0", GEOMETRY DETAILS
---
—

CUSTOMER
STOCK

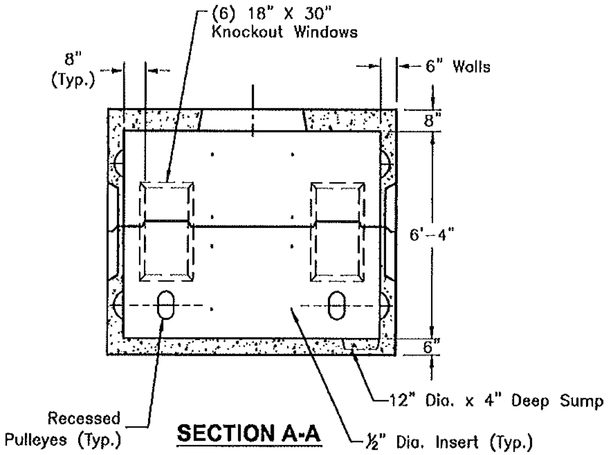
| DATE | SALES | DRAWN | ENGINEER | CHECKED | SALES ORDER |
|---|---|---|---|---|---|
| 3/29/12 | M.Y. | B.E. | C.F. | B.E. | S04x4 |
| DRAWING NUMBER | | | | REVISION | SHEET |
| 324-S04x4-001 | | | | — | 1 OF 1 |
| | | | | REV.DATE — | |



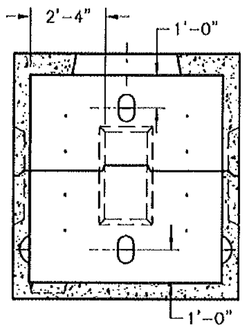

PLAN VIEW

NOTES;

1. Concrete : 5,000 P.S.I Minimum Strength @ 28 Days
2. Steel Reinforcing– ASTM A–615, Grade 60.
3. Cover to Steel–1" Minimum
4. Vault are Designed to Meet ASTM C858 and ACI 318 with AASHTO HS–20 Loading
5. Construction Joint–Sealed with Butyl Rubber Resin or Equivalent
6. Approx. Wt Top Pc. = 6.7 Tons
   Approx. Wt. Bottom Pc. = 5.9 Tons




SECTION A-A



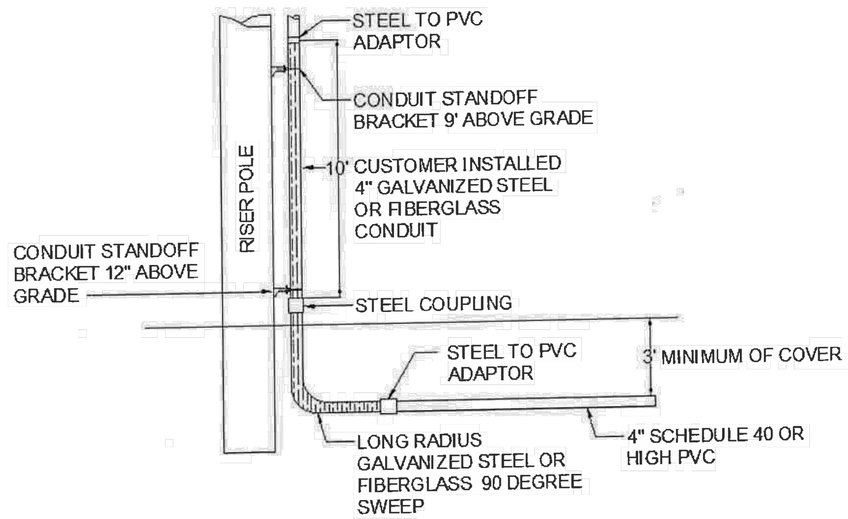

SECTION B-B

| Oldcastle Precast® | MH6X8X64 | 6'-0" x 8'-0" x 6'-4" I.D. Utility Vault |
|---|---|---|
| | FILE NAME: 324UEEMH6X8X64_DET.DWG | |
| | ISSUE DATE: January, 2008 | |
| | www.oldcastleprecast.com | |



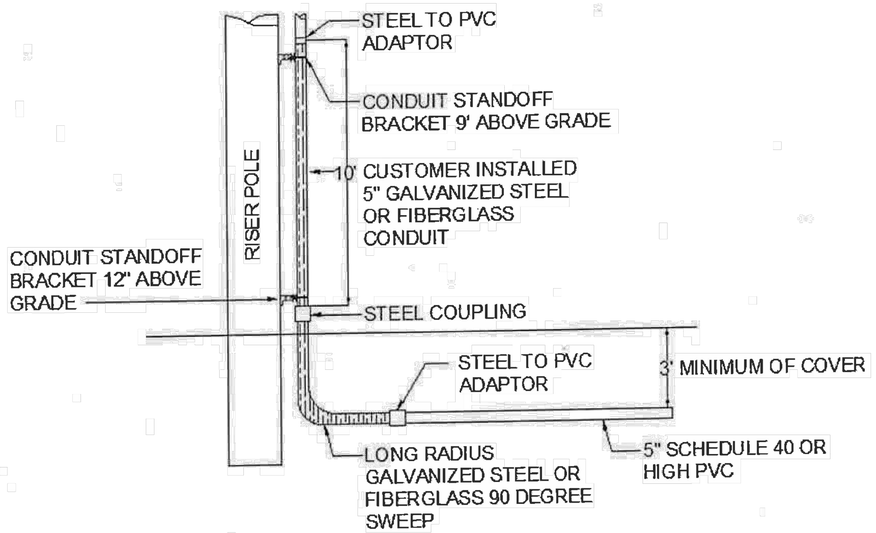
## Appendix O- Riser Pole Specification (continued)

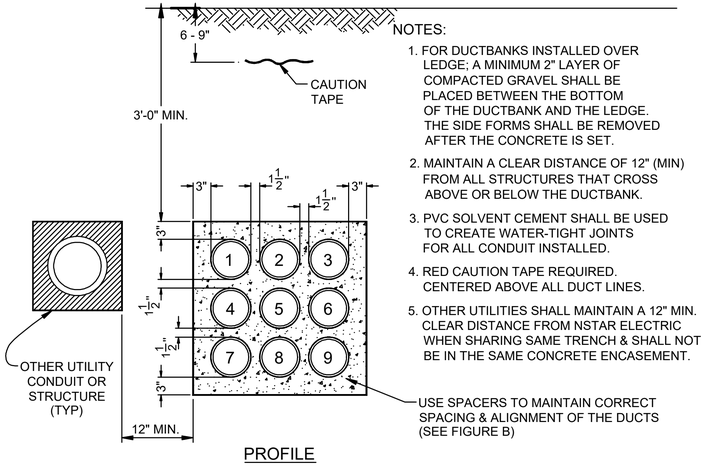
SINGLE PHASE PRIMARY RISER - 4" CONDUIT




## Appendix O- Riser Pole Specification

THREE PHASE PRIMARY RISER - 5" CONDUIT





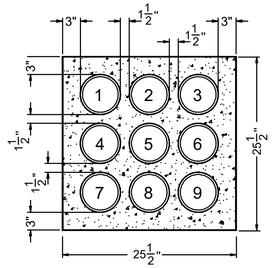

PROFILE

NOTES:

1. FOR DUCTBANKS INSTALLED OVER LEDGE; A MINIMUM 2" LAYER OF COMPACTED GRAVEL SHALL BE PLACED BETWEEN THE BOTTOM OF THE DUCTBANK AND THE LEDGE. THE SIDE FORMS SHALL BE REMOVED AFTER THE CONCRETE IS SET.
2. MAINTAIN A CLEAR DISTANCE OF 12" (MIN) FROM ALL STRUCTURES THAT CROSS ABOVE OR BELOW THE DUCTBANK.
3. PVC SOLVENT CEMENT SHALL BE USED TO CREATE WATER-TIGHT JOINTS FOR ALL CONDUIT INSTALLED.
4. RED CAUTION TAPE REQUIRED. CENTERED ABOVE ALL DUCT LINES.
5. OTHER UTILITIES SHALL MAINTAIN A 12" MIN. CLEAR DISTANCE FROM NSTAR ELECTRIC WHEN SHARING SAME TRENCH & SHALL NOT BE IN THE SAME CONCRETE ENCASEMENT.

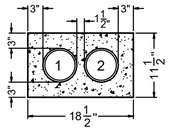
## STANDARD UNREINFORCED CONCRETE DUCTBANK CONSTRUCTION DETAILS

SCALE: N.T.S.



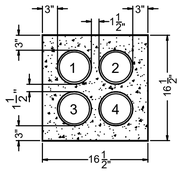

## 9-5" CONCRETE ENCASED ELECTRIC CONDUITS

SCALE: N.T.S.



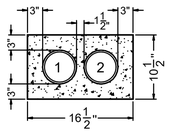

## 2-5" CONCRETE ENCASED ELECTRIC CONDUITS

SCALE: N.T.S.




## 4-4" CONCRETE ENCASE COMMUNICATION CONDUITS

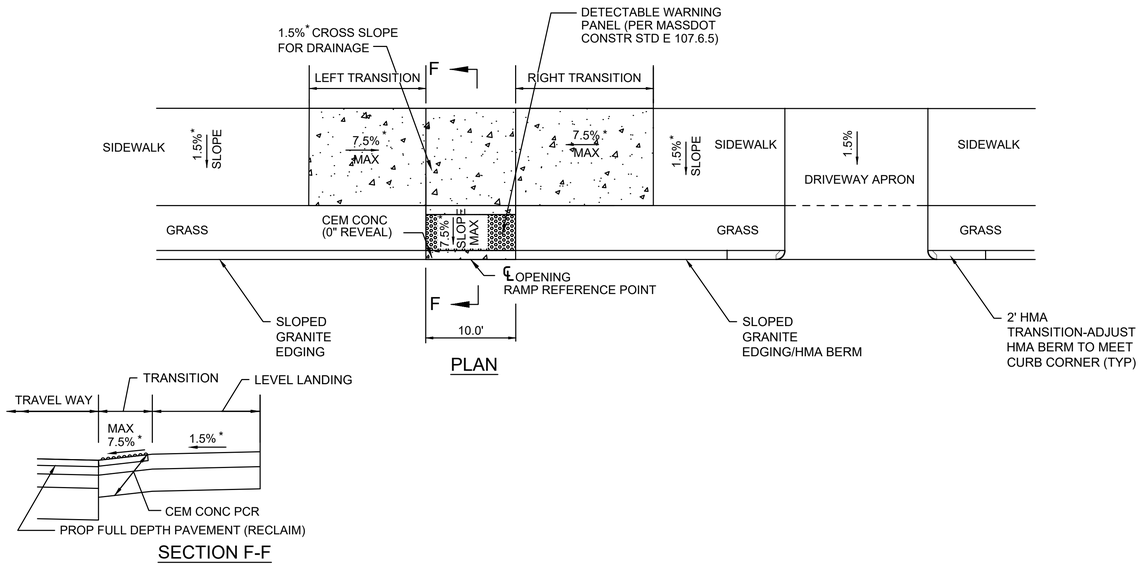
SCALE: N.T.S.



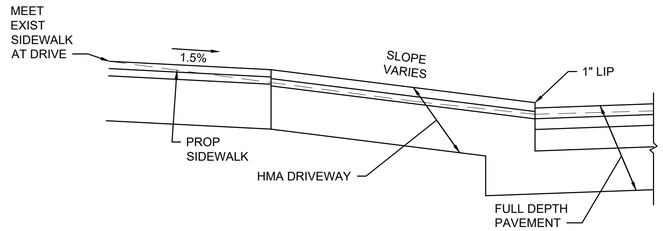

## 2-4" ELECTRIC SERVICE CONDUITS

SCALE: N.T.S.

15812.15_DET - COPY.DWG Plotted on 12-Feb-2026 3:10 PM

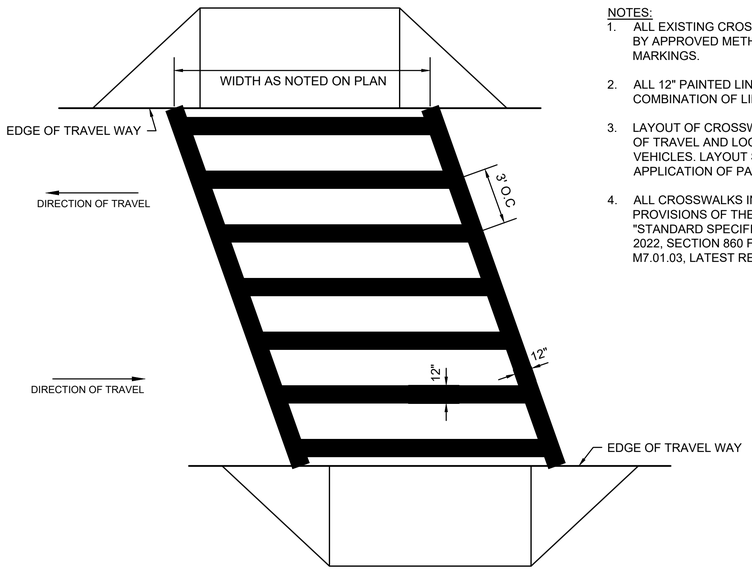



## PEDESTRIAN CURB RAMP WITH GRASS STRIP




## HMA DRIVEWAY APRON

SCALE: N.T.S.

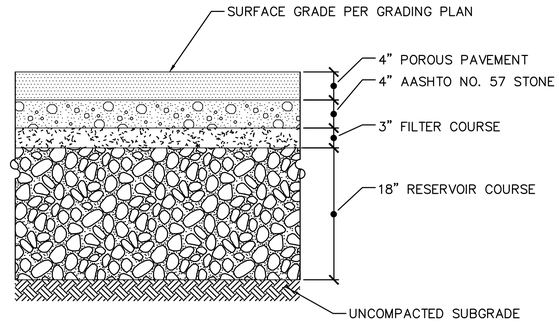



NOTES:

1. ALL EXISTING CROSSWALK MARKINGS SHALL BE FULLY ERADICATED BY APPROVED METHOD PRIOR TO THE APPLICATION OF PROPOSED MARKINGS.
2. ALL 12" PAINTED LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (e.g.,TWO - 6" LINES) WILL BE ACCEPTED.
3. LAYOUT OF CROSSWALKS SHALL BE ORIENTATED IN THE DIRECTION OF TRAVEL AND LOCATED OUTSIDE OF THE WHEEL PATH OF VEHICLES. LAYOUT SHALL BE APPROVED BY THE TOWN PRIOR TO APPLICATION OF PAINT.
4. ALL CROSSWALKS INSTALLED SHALL CONFORM TO THE RELEVANT PROVISIONS OF THE MASSACHUSETTS HIGHWAY DEPARTMENT "STANDARD SPECIFICATION FOR HIGHWAY AND BRIDGES" DATED 2022, SECTION 860 FOR REFLECTORIZED LINE (PAINTED) & MATERIAL M7.01.03, LATEST REVISIONS.

## CONTINENTAL-STYLE CROSSWALK - 12" WIDE LINES

SCALE: N.T.S. DWG: PM-27 DATE: NOVEMBER 2022

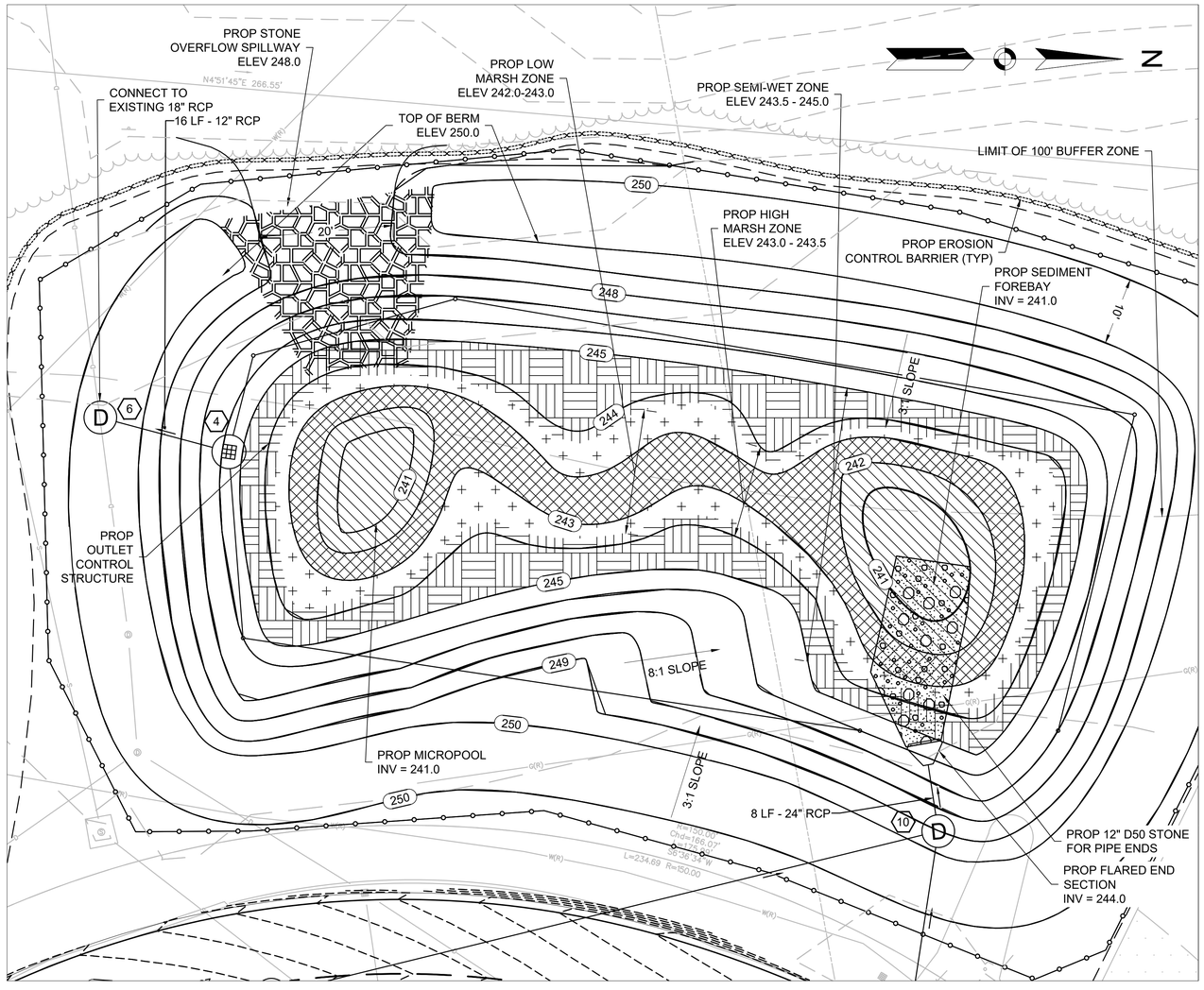



NOTES

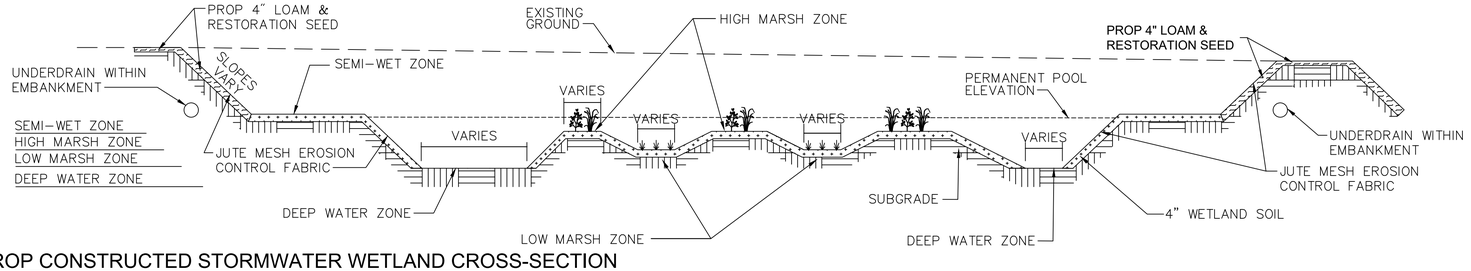
1. PROVIDE IMPERMEABLE LINER ON VERTICAL SIDES OF EXCAVATION AS INDICATED ON GRADING AND UTILITY PLAN AND IN DETAILS.
2. UNLESS OTHERWISE INDICATED, INSTALL ALL UTILITY PIPES, CONDUIT, AND DUCT BANKS BELOW POROUS PAVEMENT SECTION.

## POROUS SIDEWALK PAVEMENT SECTION

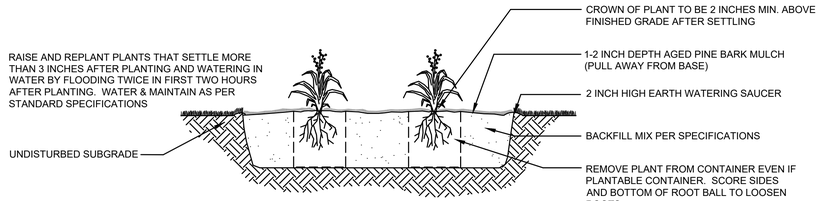
SCALE NTS




PROP CONSTRUCTED STORMWATER WETLAND
SCALE 1" = 10'



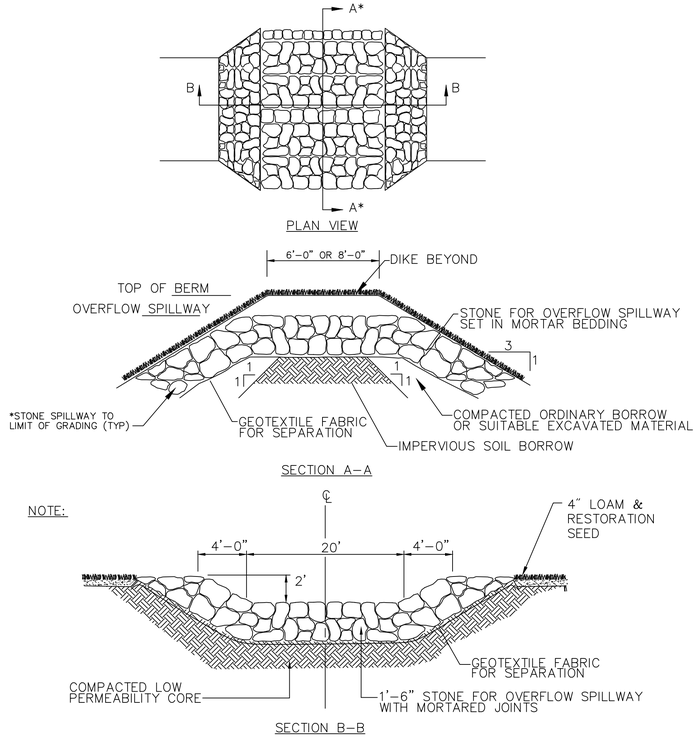

PROP CONSTRUCTED STORMWATER WETLAND CROSS-SECTION
SCALE NTS



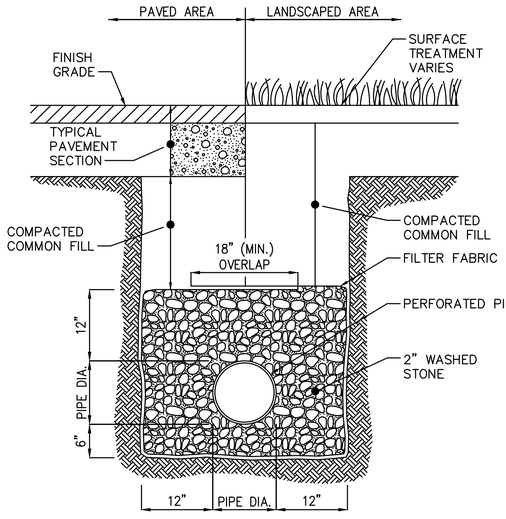

PERENNIAL PLANTING
NOT TO SCALE

| PLANTING/SEEDING SCHEDULE - "F" | | | |
|---|---|---|---|
| QTY. | COMMON NAME | BOTANICAL NAME | PLANT MATERIAL |
| LOW MARSH ZONE | | | (PLANT 24-INCHES ON CENTER) |
| 281 | ARROW ARUM | PELTANDRA VIRGINICA | BARE ROOT |
| 281 | ARROWHEAD DUCK POTATO | SAGITTARIA LATIFOLIA | BARE ROOT |
| 281 | WATER PLANTAIN | ALISMA TRIVIALE | BARE ROOT |
| 281 | PICKEREL WEED | PONTEDERIA CORDATA | BARE ROOT |
| HIGH MARSH ZONE | | | (PLANT 24-INCHES ON CENTER) |
| 83 | BLUE FLAG IRIS | IRIS VERSICOLOR | BARE ROOT |
| 83 | THREE SQUARE RUSH | SCIRPUS AMERICANUM | BARE ROOT |
| 83 | SOFT-STEM BULRUSH | SCIRPUS VALIDUS | BARE ROOT |
| 83 | BUR-REED | SPARGANIUM EURYCARPUM | BARE ROOT |
| SEMI-WET ZONE | | | |
| SEED WITH WET MEADOW AND DETENTION BASIN MIX AT A RATE OF 20 POUNDS PER ACRE (1 POUND PER 2,200 SQ FT) | | | |

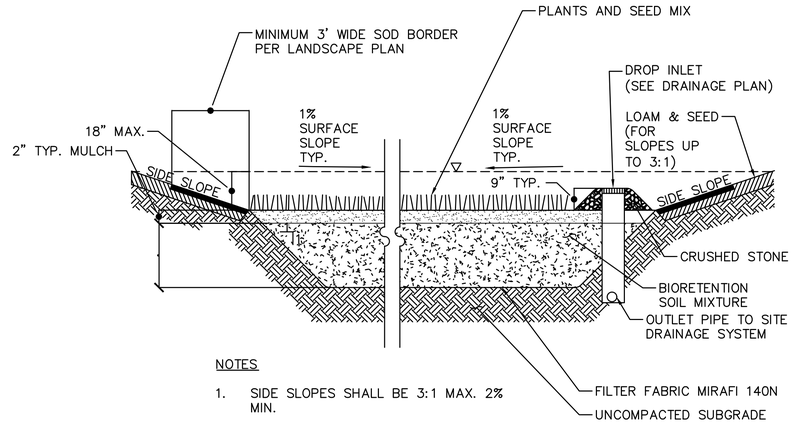
| WETLAND AREA ALLOCATION | | | | |
|---|---|---|---|---|
| SYMBOL | DEPTH ZONE | ELEVATION | SURFACE AREA | % ALLOCATION |
| | SEMI-WET ZONE | 243.50-245.00 | 1,949 SF | 40% |
| | HIGH MARSH ZONE | 243.50-243.00 | 896 SF | 19% |
| | LOW MARSH ZONE | 243.00-242.00 | 1,141 SF | 24% |
| | DEEP WATER ZONE | <242.00 | 794 SF | 17% |



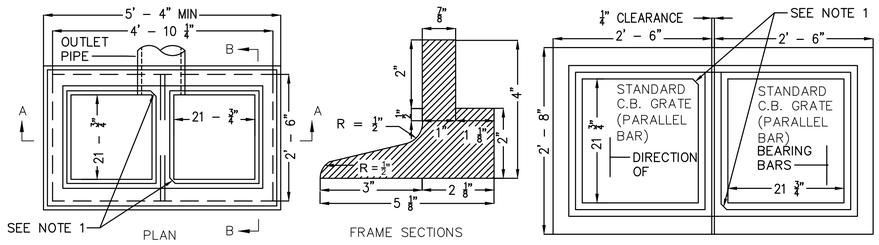

PROP STONE OVERFLOW SPILLWAY
SCALE NTS




UNDERDRAIN
SCALE NTS



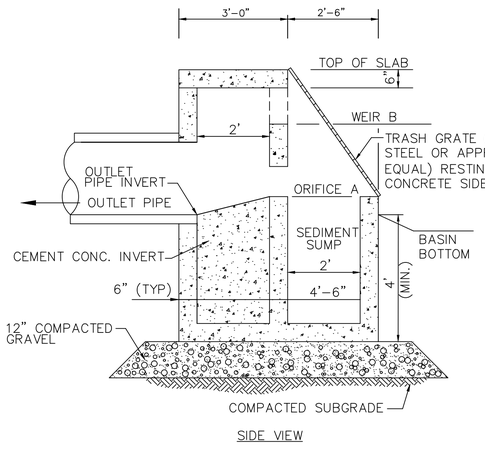

RAIN GARDEN
SCALE NTS

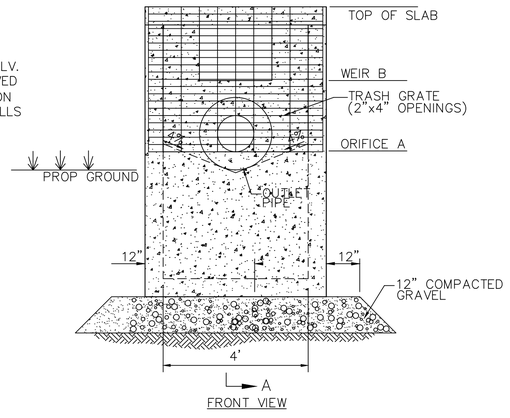



NOTES:
1. STANDARD PARALLEL BAR GRATES TO BE USED. SEE DETAILS ON MASSDOT CONSTRUCTION STANDARDS 222.2.1.
2. MINIMUM C.I. FRAME MASS – 205 LBS. EACH
3. FOR DESCRIPTIONS, MATERIALS, AND CONSTRUCTION METHODS SEE LATEST STANDARD SPECIFICATIONS

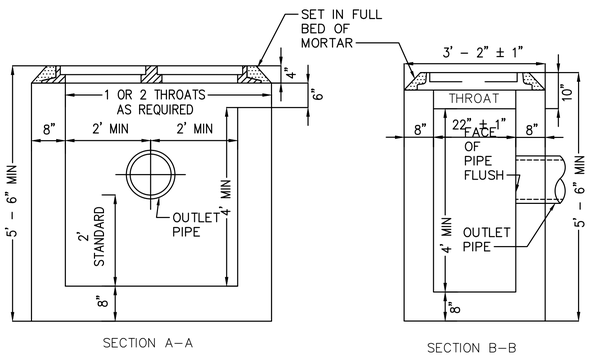
Concrete shall be

4. 4000 PSI – 1 ½" 565 LB
5. THIS DROP INLET IS NOT TO BE USED AT ANY LOCATION WHERE IT MAY PRESENT A HAZARD TO VEHICLES THAT RUN OFF THE ROAD.




PROP OUTLET CONTROL STRUCTURE
SCALE NTS




DROP INLET TYPE A: PRECAST CONCRETE
SCALE NTS

FOR CONSTRUCTION PROFILE:
SEE SHEET NO. 10-12