

TRANSPORTATION IMPROVEMENT PROJECT

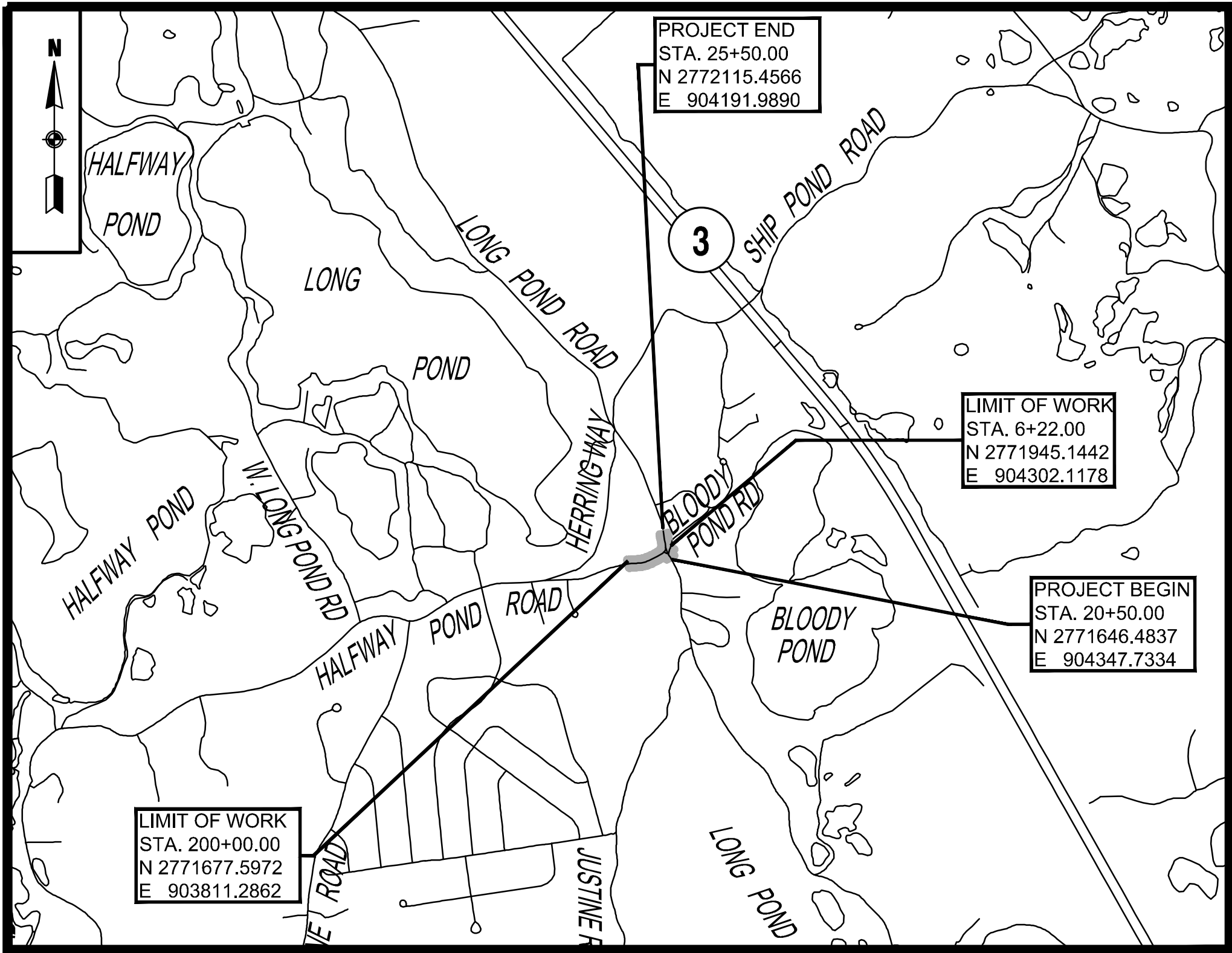
RECONSTRUCTION OF
LONG POND ROAD AT HALFWAY POND ROAD AND BLOODY POND ROAD

IN THE TOWN OF
PLYMOUTH
PLYMOUTH COUNTY

THE COMMONWEALTH OF MASSACHUSETTS

CONSTRUCTION SET

SHEET NO.	INDEX
1	TITLE SHEET & INDEX
2	LEGEND
3	GENERAL NOTES & ABBREVIATIONS
4-5	TYPICAL SECTIONS
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8	PROFILES
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11-12	PAVEMENT MARKING & SIGNING PLANS
13-14	TRAFFIC SIGNAL PLANS
15-16	LANDSCAPING PLANS
17-20	CONSTRUCTION DETAILS
21-23	TEMPORARY TRAFFIC CONTROL PLANS
24-33	CROSS SECTIONS



LENGTH OF PROJECT: = 500 FT = 0.095 MILES (LONG POND ROAD)
= 470 FT = 0.089 MILES (HALFWAY POND ROAD)
= 106 FT = 0.020 MILES (BLOODY POND ROAD)

ALL WORK DONE UNDER THIS CONTRACT SHALL BE IN CONFORMANCE WITH THE MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES 2022 EDITION; THE SUPPLEMENTAL SPECIFICATIONS DATED JUNE 30, 2022; THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS; THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS; THE MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS; THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS; THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS; THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING; THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK; AND ALL RULES AND REGULATIONS OF THE ARCHITECTURAL ACCESS BOARD (521 CMR 1.00 ET. SEQ.); OR LATEST EDITIONS, ALL AS AMENDED, THE SPECIAL PROVISIONS, AND THESE PLANS.

DESIGN DESIGNATION

	LONG POND ROAD	HALFWAY POND ROAD	BLOODY POND ROAD
DESIGN SPEED	30 MPH	35 MPH	20 MPH
ADT (2020)	11,610 vpd	12,230 vpd	
ADT (2027)	16,550 vpd	19,550 vpd	
K	9.2%	6.8%	
D	51% NB	50% NB	
T (PEAK HOUR)	2.4%	2.1%	
T (AVERAGE DAY)	2.4%	3.1%	
DHV	1,530 vph	1,330 vph	
DDHV	790 vph	670 vph	
FUNCTIONAL CLASSIFICATION	URBAN COLLECTOR	URBAN COLLECTOR	

JUNE 2024

PROJECT TITLE

Redbrook Mixed Use
Development

Plymouth,
Massachusetts

PREPARED FOR

ADM Development
Services, LLC

Wareham,
Massachusetts

Vanasse & Associates inc
Transportation Engineers & Planners

35 N.E. BUSINESS CENTER DRIVE
ANDOVER, MA 01810-1071
TEL: (978) 474-8800
www.rdva.com

BEALS + THOMAS
Civil Engineers + Landscape Architects +
Land Surveyors + Planners +
Environmental Specialists

BEALS AND THOMAS, INC.
32 Court Street
Plymouth, Massachusetts 02360-3866
T 508.746.3288 | www.btiweb.com

DESIGNED BY	TWO
DRAWN BY	MPP
CHECKED BY	JPC
DATE	FEB 2025
SCALE	AS NOTED
STAMP	

REVISIONS		
NO.	DESCRIPTION	DATE
1.	UPDATED UPL LOCATIONS	2/25/25

DRAWING TITLE

Title Sheet & Index

SHEET 1 OF 33	DRAWING NUMBER
JOB NO. 5452	1
CAD 5452DS	

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GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		JERSEY BARRIER
		CATCH BASIN
		CATCH BASIN CURB INLET
		FLAG POLE
		GAS PUMP
		MAIL BOX
		POST SQUARE
		POST CIRCULAR
		WELL
		ELECTRIC HANDHOLE
		FENCE GATE POST
		GAS GATE
		BORING HOLE
		MONITORING WELL
		TEST PIT
		HYDRANT
		LIGHT POLE
		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		MASSACHUSETTS HIGHWAY BOUND
		MONUMENT
		STONE BOUND
		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
		TROLLEY POLE OR GUY POLE
		TRANSMISSION POLE
		UTILITY POLE W/ FIREBOX
		UTILITY POLE WITH DOUBLE LIGHT
		UTILITY POLE W / 1 LIGHT
		UTILITY POLE
		BUSH
		TREE
		STUMP
		SWAMP / MARSH
		WATER GATE
		PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
		CONTOURS (ON-THE-GROUND SURVEY DATA)
		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
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		EROSION CONTROL BARRIER
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		EDGE OF PAVEMENT
		LIMIT OF MICROMILLING 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

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		VIDEO DETECTION CAMERA
		MICROWAVE DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
		RAILROAD SIGNAL
		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
		MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
		MAST ARM WITH LUMINAIRE
		OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL AND METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE
		STOP LINE
		CROSSWALK
		SOLID WHITE LINE
		SOLID YELLOW LINE
		BROKEN WHITE LINE
		BROKEN YELLOW LINE
		DOTTED WHITE LINE (3' LINE WITH 9' GAP)
		DOTTED YELLOW LINE (3' LINE WITH 9' GAP)
		DOTTED WHITE LINE EXTENSION (2' LINE WITH 6' GAP)
		DOTTED YELLOW LINE EXTENSION (2' LINE WITH 6' GAP)
		DOUBLE WHITE LINE
		DOUBLE YELLOW LINE

- PAVEMENT MARKING NOTES:
- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
 - ALL LONGITUDINAL PAVEMENT MARKINGS SHALL BE 6" WIDE, UNLESS OTHERWISE NOTED.

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Legend

SHEET 2 OF 33	DRAWING NUMBER
JOB NO. 5452	2
CAD 5452DS	

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GENERAL NOTES

- TOPOGRAPHICAL INFORMATION OBTAINED FROM BASE PLANS PROVIDED BY BEALS & THOMAS, INC. LAST UPDATED ON MARCH 5, 2020. COORDINATES ARE MASSACHUSETTS STATE PLANE (NAD '83). VERTICAL DATUM IS NAVD '88.
- THE CONTRACTOR SHALL NOTIFY DIGSAFE (888-344-7233) AND PROCURE A DIGSAFE NUMBER PRIOR TO DISTURBING GROUND IN ANY WAY.
- 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 AGREES TO 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.
- WHERE AN EXISTING UNDERGROUND 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.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
- AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. GRASS AREAS SHALL BE RESTORED WITH 4-INCHES OF LOAM AND SEEDED.
- 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).
- ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS NOTED OTHERWISE.
- ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
- SERVICE CONNECTION CONSISTS OF INSTALLING A NEW SERVICE DISCONNECT, RISER, METER, AND CABLE IN CONFORMANCE WITH SECTION 813.63 OF THE STANDARD SPECIFICATIONS.
- ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATIONS ARE NOT GUARANTEED.
- A MINIMUM 4 FOOT WIDE CLEAR PATH OF TRAVEL (EXCLUDING CURB WIDTH) SHALL BE MAINTAINED ON ALL SIDEWALKS PAST ALL SIGNAL EQUIPMENT, UTILITIES, OR OTHER OBSTRUCTIONS.
- DIMENSIONS RELATIVE TO EXISTING CURB LINES SHALL CONTROL. THE EXACT LOCATION OF TRAFFIC SIGNAL POLES, POSTS, CONTROLLERS, PULL BOXES, SIGNS, AND PAVEMENT MARKINGS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- JOINTS BETWEEN NEW HOT MIX ASPHALT ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH ASPHALT EMULSION AND BACKSANDDED.
- EXISTING UTILITIES WILL BE RELOCATED BY THE RESPECTIVE UTILITY OWNERS AND SHALL BE COORDINATED BY THE CONTRACTOR.
- ALL EXISTING SEWER, DRAINAGE, ELECTRIC MANHOLE COVERS, GAS AND WATER GATES, ETC. SHALL BE ADJUSTED TO FINISHED GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION STAKING AT NO ADDITIONAL COST.
- ALL TRENCH CUTS WITHIN THE PAVED SURFACE HAVING A WIDTH OF 4' OR LESS SHALL BE BACKFILLED WITH CONTROLLED DENSITY FILL.
- ALL PROPOSED PEDESTRIAN ACCOMMODATIONS (I.E. SIDEWALKS, WHEELCHAIR RAMPS, ETC.) SHALL COMPLY WITH CURRENT ADA & AAB RULES AND REGULATIONS AND MASSDOT STANDARDS.
- ALL DRAINAGE STRUCTURES WITHIN THE LIMITS OF WORK SHALL BE CLEANED PRIOR TO CONCLUSION OF THE PROJECT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE MINIMUM MOUNTING HEIGHT OF POST MOUNTED SIGNS, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE TOP OF CURB OR SIDEWALK OR NEAREST EDGE OF TRAVELED WAY, SHALL BE 7 FT.

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
DWP	DETECTABLE WARNING PANEL
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
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
NIC	NOT IN CONTRACT
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
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

ABBREVIATIONS (cont.)

GENERAL	
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY
R	RADIUS OF CURVATURE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
R&D	REMOVE AND DISPOSE
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
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
VGC	VERTICAL GRANITE CURB
WCR	WHEEL CHAIR RAMP
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

TRAFFIC SIGNAL ABBREVIATIONS

CAB	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY UPRAISED HAND
FDW	FLASHING UPRAISED HAND
FR	FLASHING CIRCULAR RED
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FY	FLASHING CIRCULAR YELLOW
FYL	FLASHING YELLOW LEFT ARROW
FYR	FLASHING YELLOW RIGHT ARROW
G	STEADY CIRCULAR GREEN
GL	STEADY GREEN LEFT ARROW
GR	STEADY GREEN RIGHT ARROW
GSL	STEADY GREEN SLASH LEFT ARROW
GSR	STEADY GREEN SLASH RIGHT ARROW
GV	STEADY GREEN VERTICAL ARROW
HH	HAND HOLE
MA	MAST ARM
OL	OVERLAP
PB	PULL BOX
PED	PEDESTRIAN
PTZ	PAN, TILT, ZOOM
R	STEADY CIRCULAR RED
RL	STEADY RED LEFT ARROW
RR	STEADY RED RIGHT ARROW
TS	TRAFFIC SIGNAL/ TRAFFIC SIGNAL POST
TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALKING PERSON
Y	STEADY CIRCULAR YELLOW
YL	STEADY YELLOW LEFT ARROW

PROJECT TITLE

Redbrook Mixed Use Development

Plymouth, Massachusetts

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ADM Development Services, LLC

Wareham, Massachusetts



ANDOVER, MASSACHUSETTS

35 N.E. BUSINESS CENTER DRIVE
ANDOVER, MA 01810-1071
TEL: (978) 474-8800
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REVISIONS		
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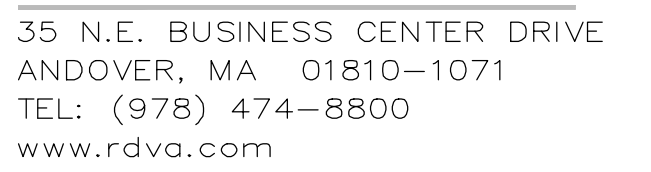
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General Notes & Abbreviations

SHEET 3 OF 33	DRAWING NUMBER
JOB NO. 5452	3
CAD 5452LEG3v7	

PREPARED FOR

Wareham,
Massachusetts



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1.	UPDATED UPL LOCATIONS	2/25/25

Typical Sections

SHEET 4 OF 33	DRAWING NUMBER
JOB NO. 5452	4
CAD 5452DS	



EXIST.
TOWN R.O.W.

50'

CONST.
B

1' TO 5'
SHOULDER

10' TO 11' TRAVEL LANE

11' TRAVEL LANE

1' TO 5'
SHOULDER

SEE INSERT A

FULL DEPTH
PVMT CONST
WIDTH VARIES

SAWCUT

PGL & CROWLINE
SEE X-SECTS

VARIES
SEE X-SECTS

1' LEVEL (10:1 MAX)
(TYP)

1' (TYP)

10:1

3:1 (TYP) 2:1 (MAX)

MEET EXIST GROUND

PROP. BIODEGRADABLE EROSION MATTING ON SLOPES STEEPER THAN 4:1

3:1 (TYP) 2:1 (MAX)

MEET EXIST GROUND

PROP. 4" LOAM & SEED

PROP. ORDINARY BORROW

3.00' PVMT MILLING MULCH

STEEL W BEAM HIGHWAY GUARD W/ TIMBER POST, TL-2 (SINGLE FACED)

10:1

6"

INSERT A

STA. 22+31 TO STA. 22+39
NOT TO SCALE

3:1 (TYP) 2:1 (MAX)

MEET EXIST GROUND

PROP. 4" LOAM & SEED

FULL DEPTH PVMT CONST STARTS (STA. 21+44)

SAWCUT

EXIST EOP

1' TO 5' SHOULDER

10' TO 11' TRAVEL LANE

11' TRAVEL LANE

1' TO 5' SHOULDER

SEE INSERT A

FULL DEPTH PVMT CONST WIDTH VARIES

SAWCUT

PGL & CROWLINE SEE X-SECTS

VARIES SEE X-SECTS

1' LEVEL (10:1 MAX) (TYP)

1' (TYP)

10:1

3:1 (TYP) 2:1 (MAX)

MEET EXIST GROUND

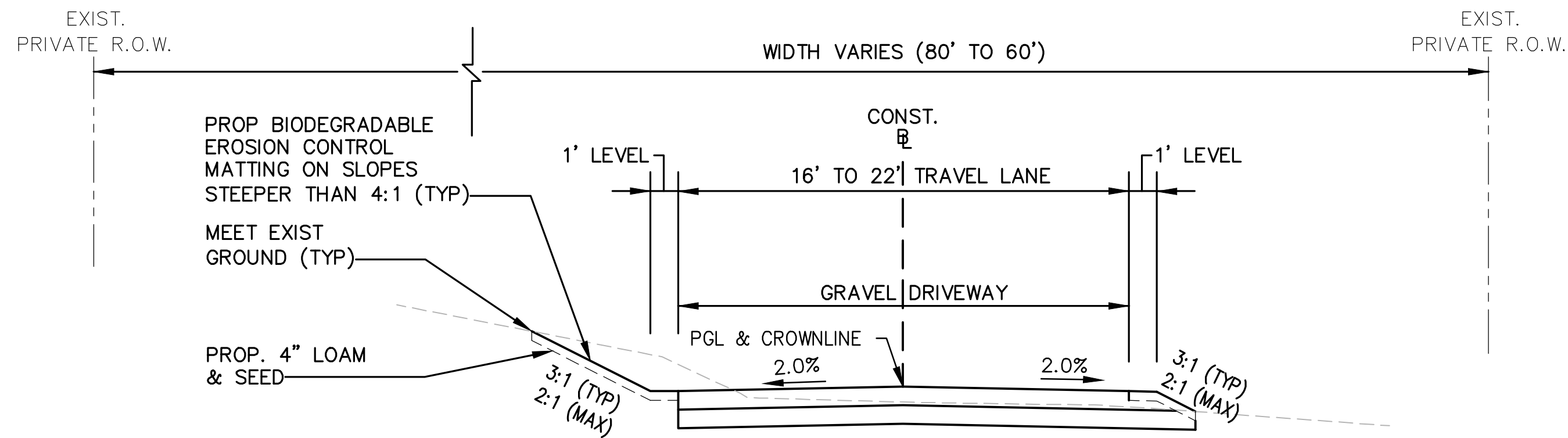
PROP. BIODEGRADABLE EROSION MATTING ON SLOPES STEEPER THAN 4:1 (TYP)

LONG POND ROAD

PAVEMENT NOTES

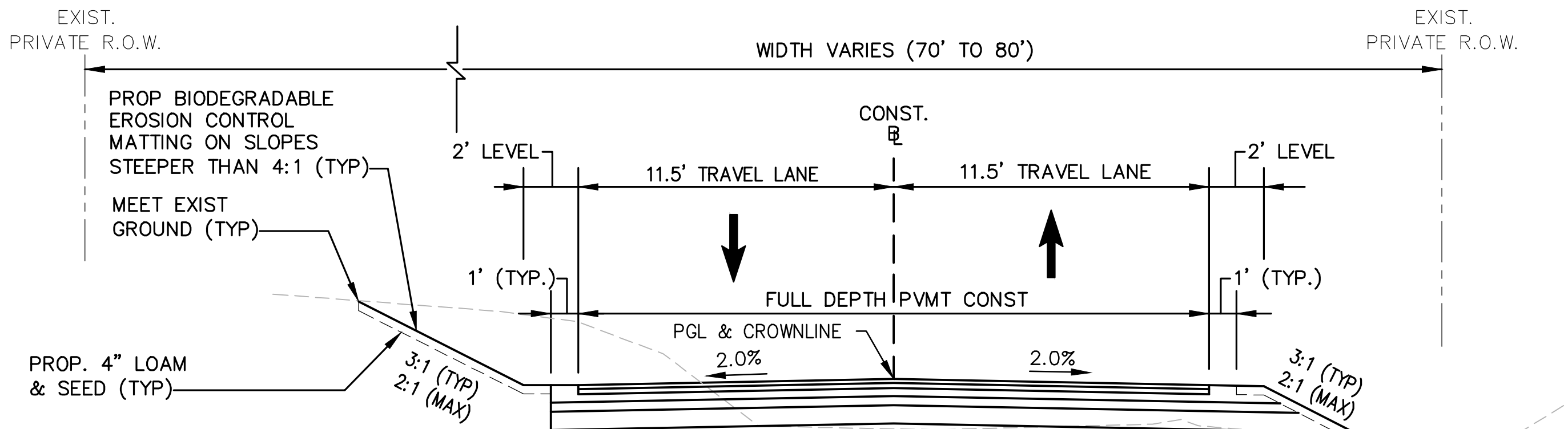
SUBBASE: 8" GRAVEL BORROW
(MASSDOT M1.03.0 TYPE c)

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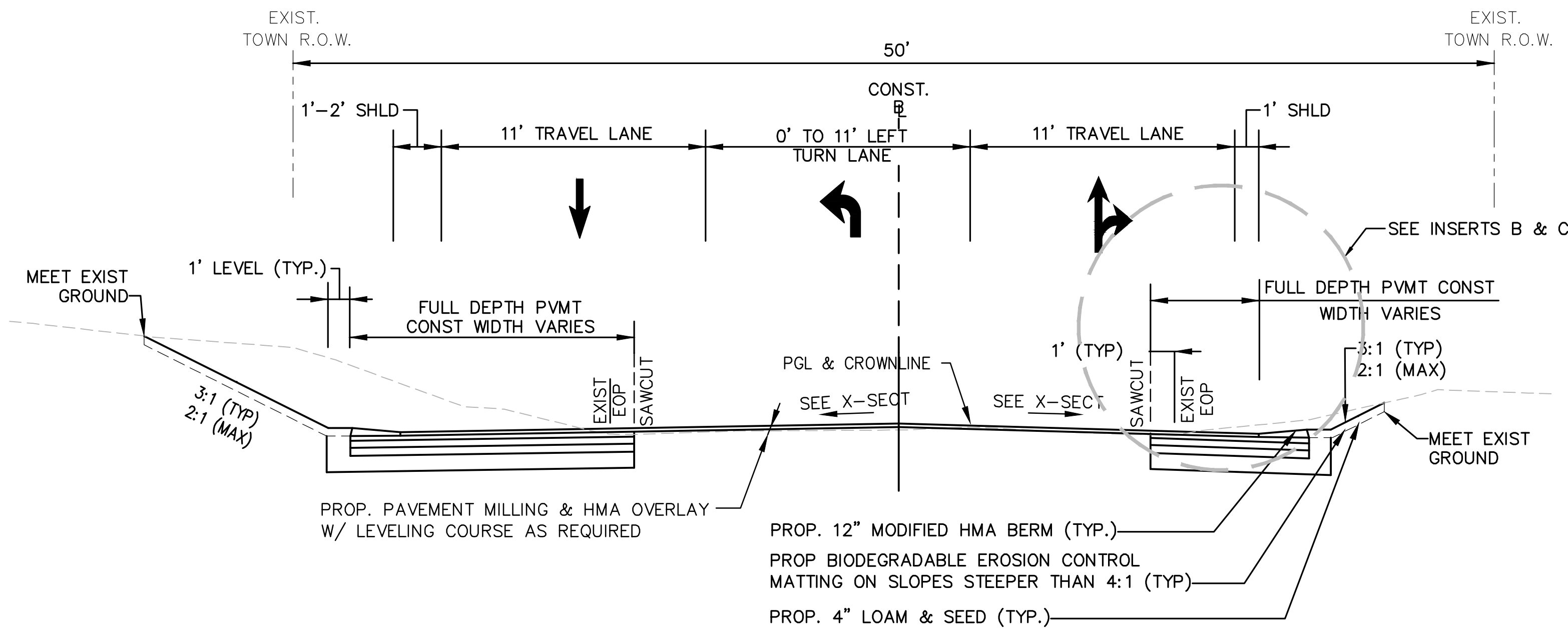
BLOODY POND ROAD

STA. 5+55 TO STA. 6+22
NOT TO SCALE



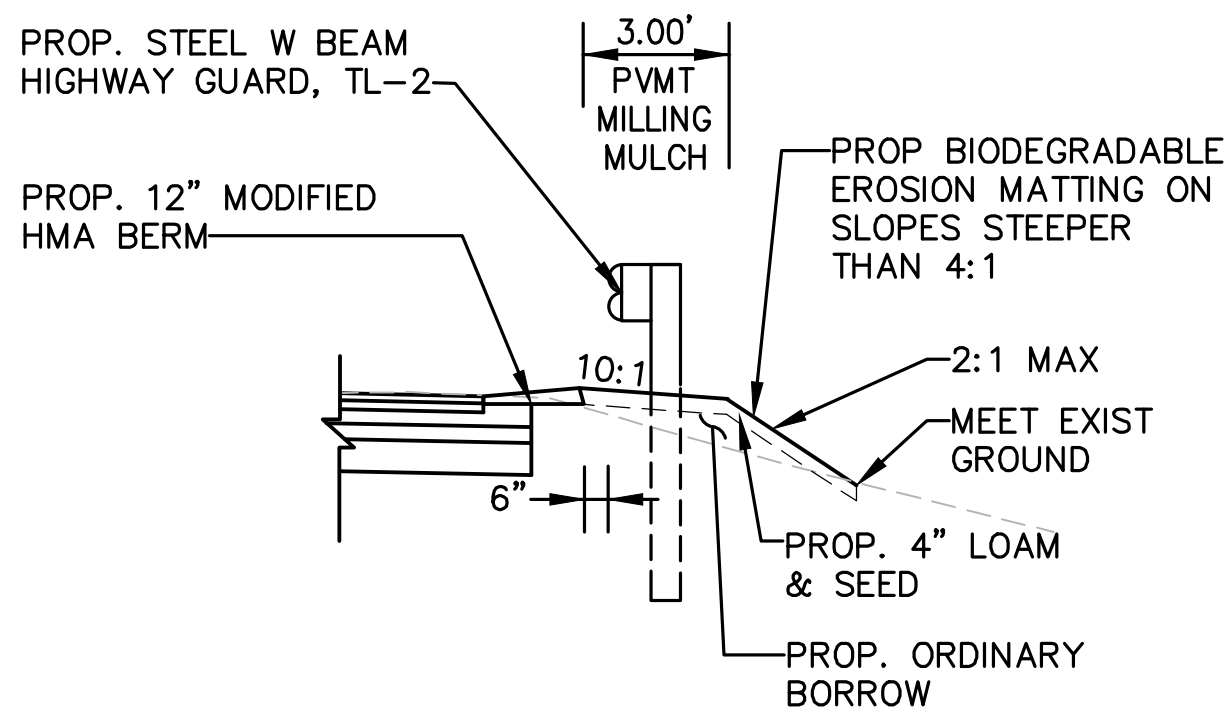
BLOODY POND ROAD

STA. 5+16 TO STA. 5+55
NOT TO SCALE



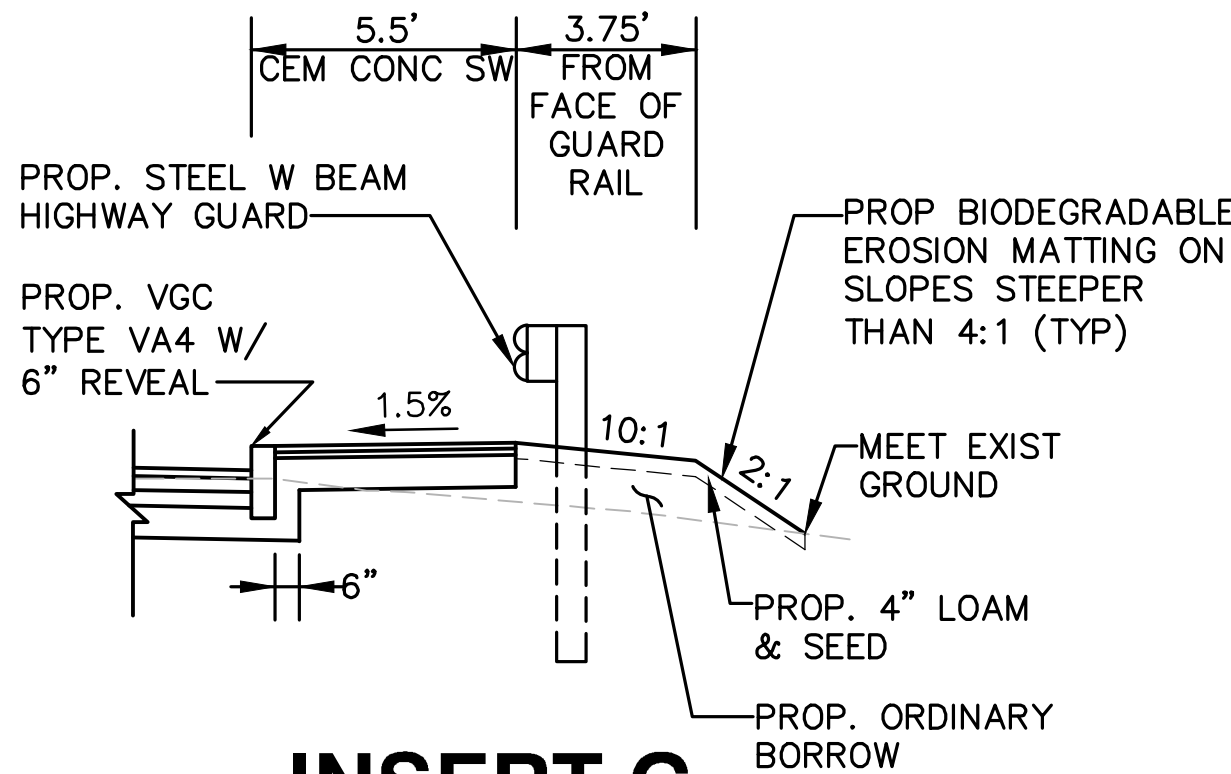
HALFWAY POND ROAD

STA. 200+00 TO STA. 204+50
NOT TO SCALE



INSERT B

STA. 203+55 TO STA. 204+15
NOT TO SCALE



INSERT C

STA. 204+15 TO STA. 204+30
NOT TO SCALE

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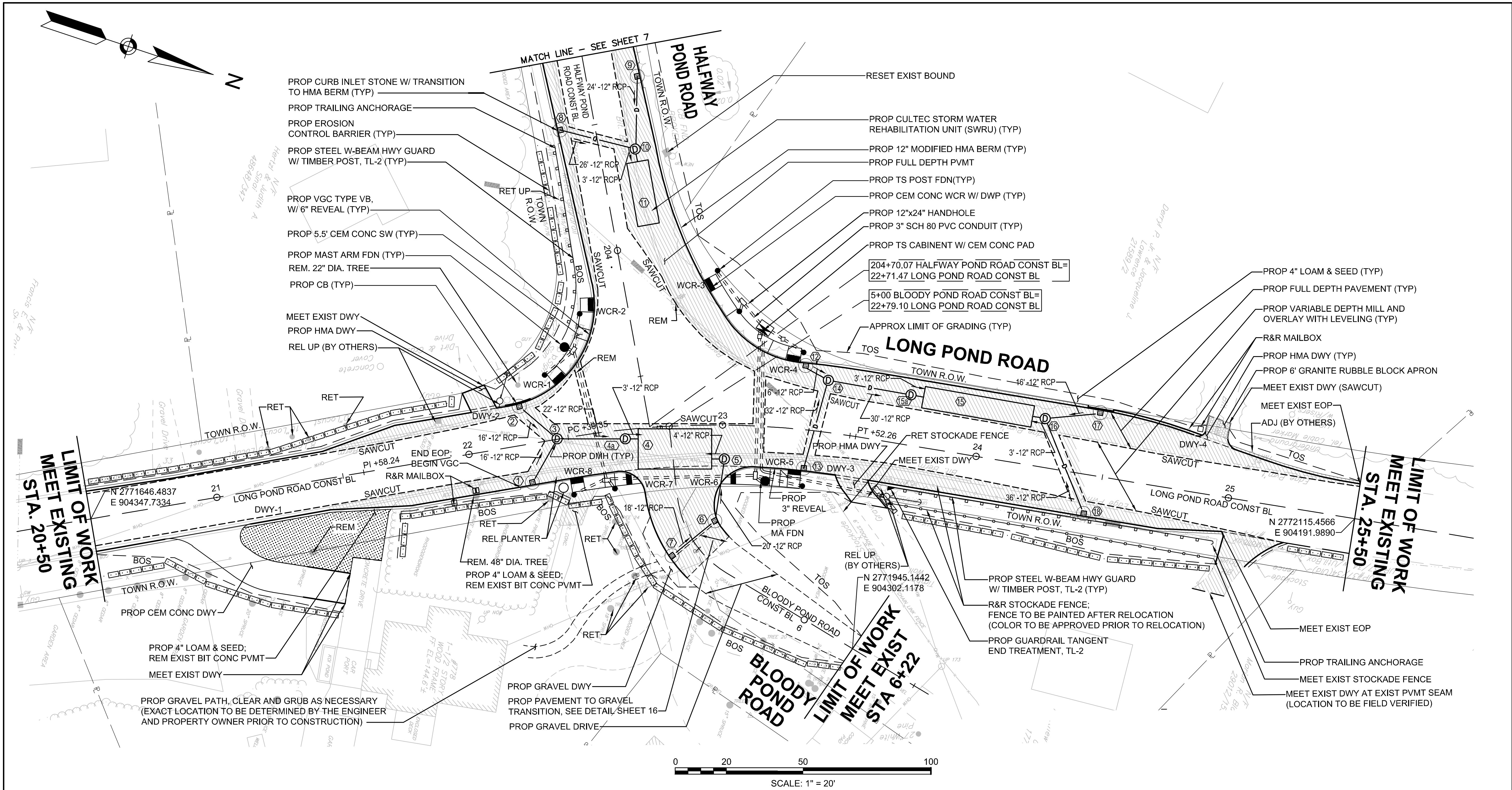
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Typical Sections

SHEET 5 OF 33	DRAWING NUMBER
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CAD 5452DS	

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HIGHWAY GUARD DETAILS

DESCRIPTION

LONG POND ROAD
TANGENT END TREATMENT, TL-2 (SINGLE FACED)
STEEL W BEAM HIGHWAY GUARD W/
TIMBER POST, TL-2 (SINGLE FACED)
TRAILING ANCHORAGE (SINGLE FACED)

HALFWAY POND ROAD
TRAILING ANCHORAGE (SINGLE FACED)
STEEL W BEAM HIGHWAY GUARD W/
TIMBER POST, TL-2 (SINGLE FACED)

LOCATION

STA 23+68 RT TO STA 24+05 RT

STA 24+05 RT TO STA 24+87 RT
STA 24+87 RT TO STA 24+96

STA 203+55 RT TO STA 203+64 RT

STA 203+64 RT TO STA 204+30 RT

DRAINAGE STRUCTURE DATA						
NO.	TYPE	STATION/OFFSET	RIM ELEV	INV IN	INV OUT	REMARKS
1	CBCI	22+22.70, 16.0' RT	144.03	—	140.79 (3)	12" HOOD, 4' SUMP
2	CBCI	22+22.50, 16.0' LT	144.12	—	140.95 (3)	12" HOOD, 4' SUMP
3	DMH	23+35.00, 0.0' LT	144.67	140.71 (1) 140.88 (2)	140.61 (4a)	4' SUMP
4	SWRU-1	—	—	139.04 (3) 139.04 (5)	—	CULTEC 902HD STORMWATER INFILTRATION UNIT
4a	DMH	22+61.56, 3.63 RT	145.54	140.61 (3)	139.20 (4)	—
5	DMH	23+01.00, 13.24 RT	147.24	140.72 (6)	139.19 (4)	4' SUMP
6	CB	5+43.59, 12.31 LT	144.44	140.92 (7)	140.82 (5)	12" HOOD, 4' SUMP
7	CB	5+46.007, 11.14 RT	144.40	—	141.01 (6)	12" HOOD, 4' SUMP
8	CBCI	203+49.68, 14.55 RT	147.92	—	144.68 (10)	12" HOOD, 4' SUMP
9	CBCI	203+34.33, 20.87 LT	148.39	—	145.16 (10)	12" HOOD, 4' SUMP
10	DMH	203+62.26, 14.00 LT	147.85	144.57 (8) 144.62 (9)	143.06 (11)	4' SUMP

DRAINAGE STRUCTURE DATA						
NO.	TYPE	STATION/OFFSET	RIM ELEV	INV IN	INV OUT	REMARKS
11	SWRU-3	—	—	142.81 (10)	—	CULTEC 902HD STORMWATER INFILTRATION UNIT
12	CB	23+30.20, 26.0' LT	149.10	—	145.97 (14)	12" HOOD, 4' SUMP
13	CB	23+33.50, 16.0' RT	149.30	—	145.65 (14)	12" HOOD, 4' SUMP
14	DMH	23+79.00, 20.2' LT	149.76	145.94 (12) 145.49 (13)	145.40 (15a)	4' SUMP
15	SWRU-2	—	—	145.21 (14) 145.21 (16)	—	CULTEC 902HD STORMWATER INFILTRATION UNIT
15a	DMH	24+71.65, 19.58 LT	151.73	145.36 (14)	145.36 (15)	—
16	DMH	24+31.65, 18.92 LT	154.53	151.69 (17) 151.69 (18)	145.74 (15)	4' SUMP
17	CBCI	24+31.61, 25.7 LT	155.30	—	152.13 (16)	12" HOOD, 4' SUMP
18	CBCI	24+45.13, 16.00 RT	155.33	—	152.17 (16)	12" HOOD, 4' SUMP

PROJECT TITLE

Redbrook Mixed Use
Development

Plymouth,
Massachusetts

PREPARED FOR

ADM Development
Services, LLC

Wareham,
Massachusetts

Vanasse & Associates inc
Transportation Engineers & Planners

35 N.E. BUSINESS CENTER DRIVE
ANDOVER, MA 01810-1071
TEL: (978) 474-8800
www.rdva.com

DESIGNED BY	TWO
DRAWN BY	MPP
CHECKED BY	JPC
DATE	FEB 2025
SCALE	1" = 20'
STAMP	

REVISIONS

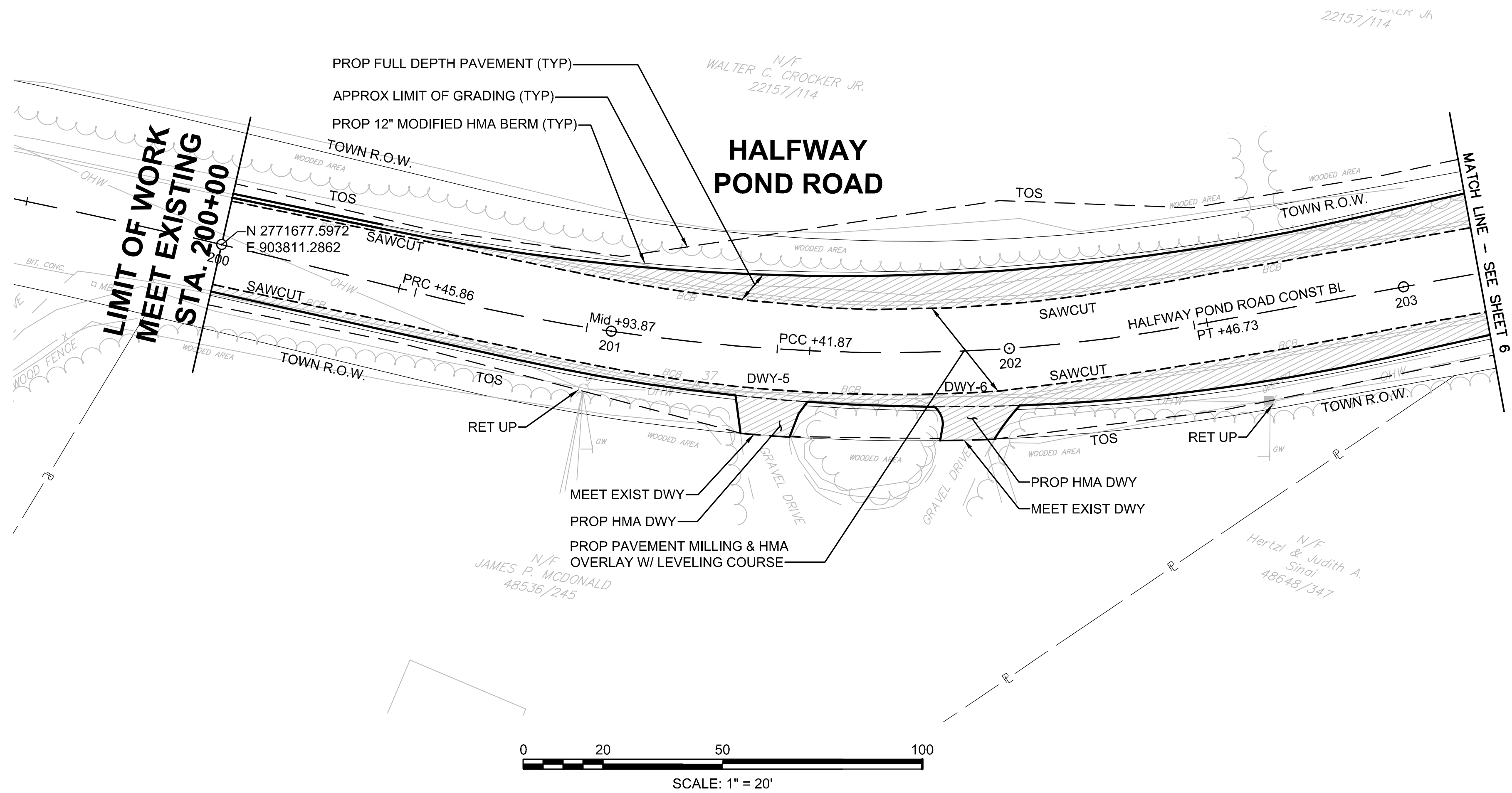
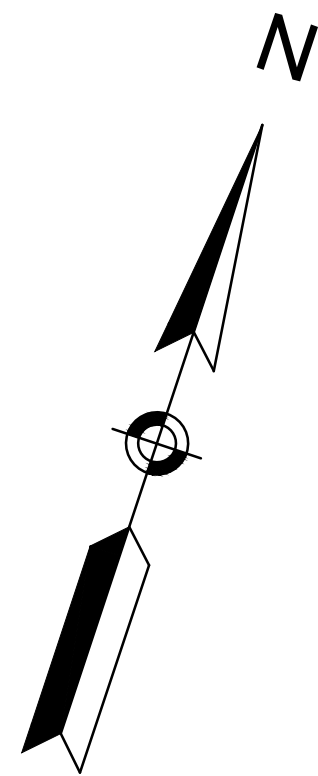
NO.	DESCRIPTION	DATE
1.	UPDATED URP LOCATIONS	2/25/25

DRAWING TITLE

Construction Plans

SHEET 6 OF 33	DRAWING NUMBER
JOB NO. 5452	6
CAD 5452GN	

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PROJECT TITLE

Redbrook Mixed Use Development

Plymouth, Massachusetts

PREPARED FOR

ADM Development Services, LLC

Wareham, Massachusetts



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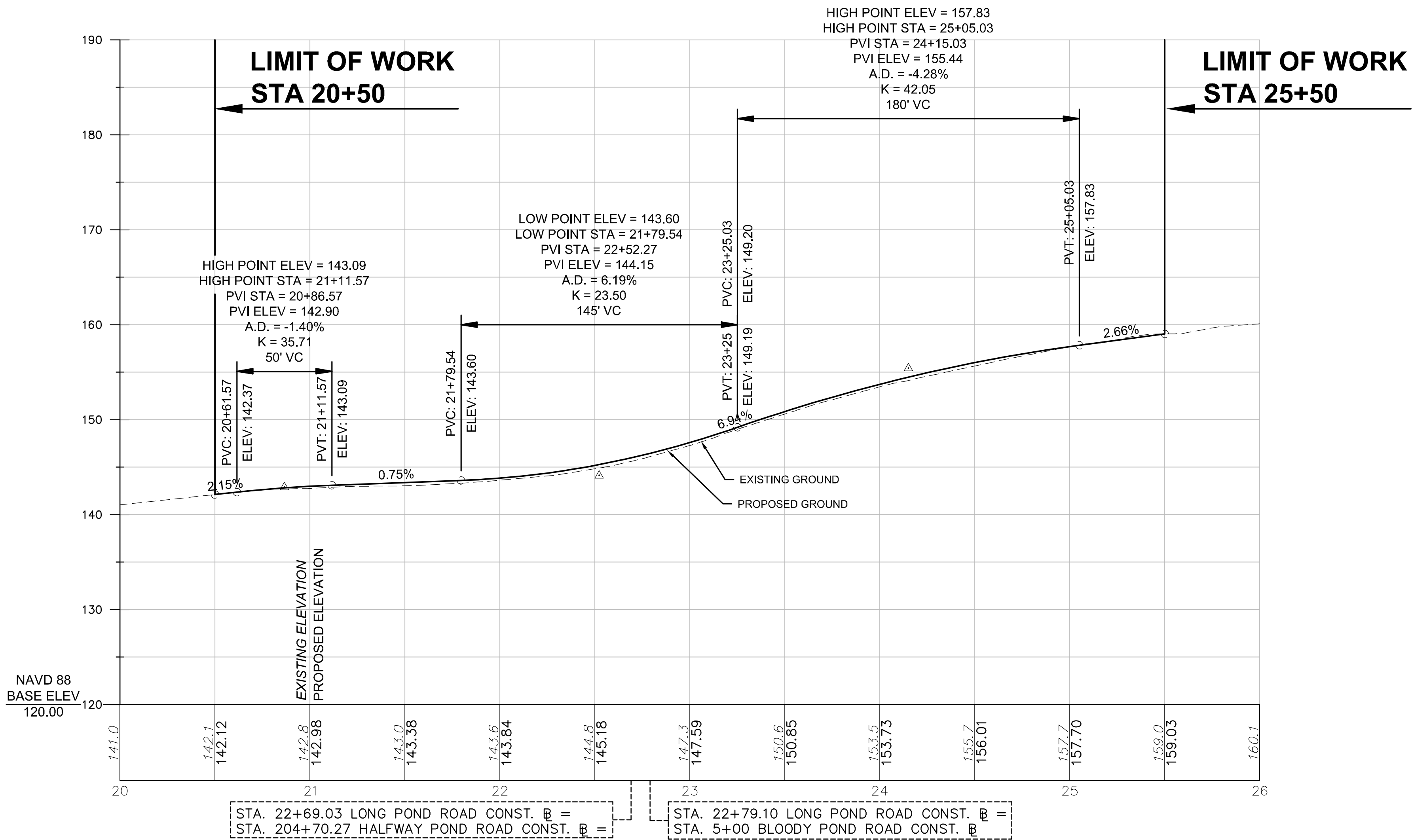
REVISIONS		
NO.	DESCRIPTION	DATE
1.	UPDATED UPL LOCATIONS	2/25/25

DRAWING TITLE

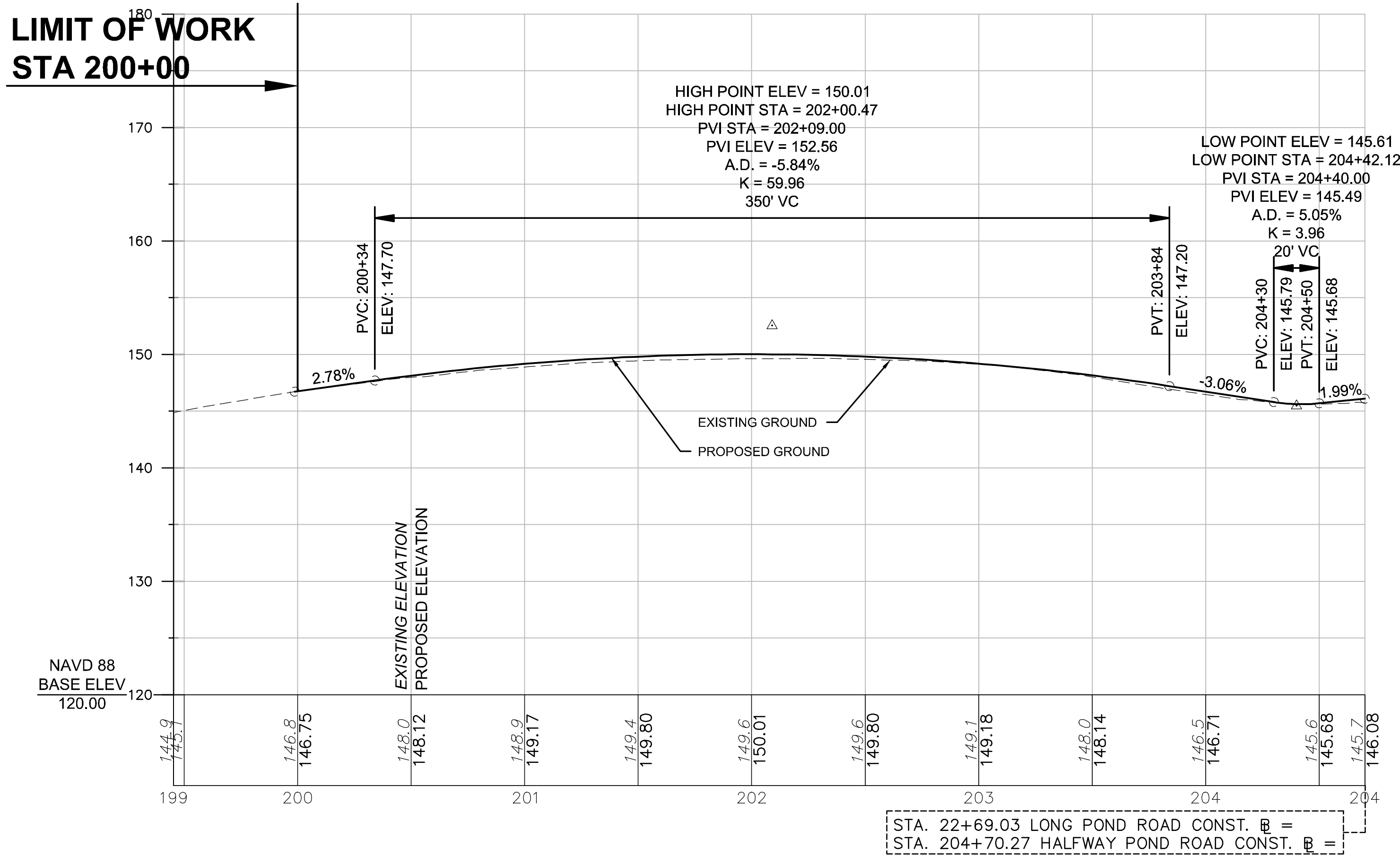
Construction Plans

SHEET 7 OF 33	DRAWING NUMBER
JOB NO. 5452	7
CAD 5452GN	

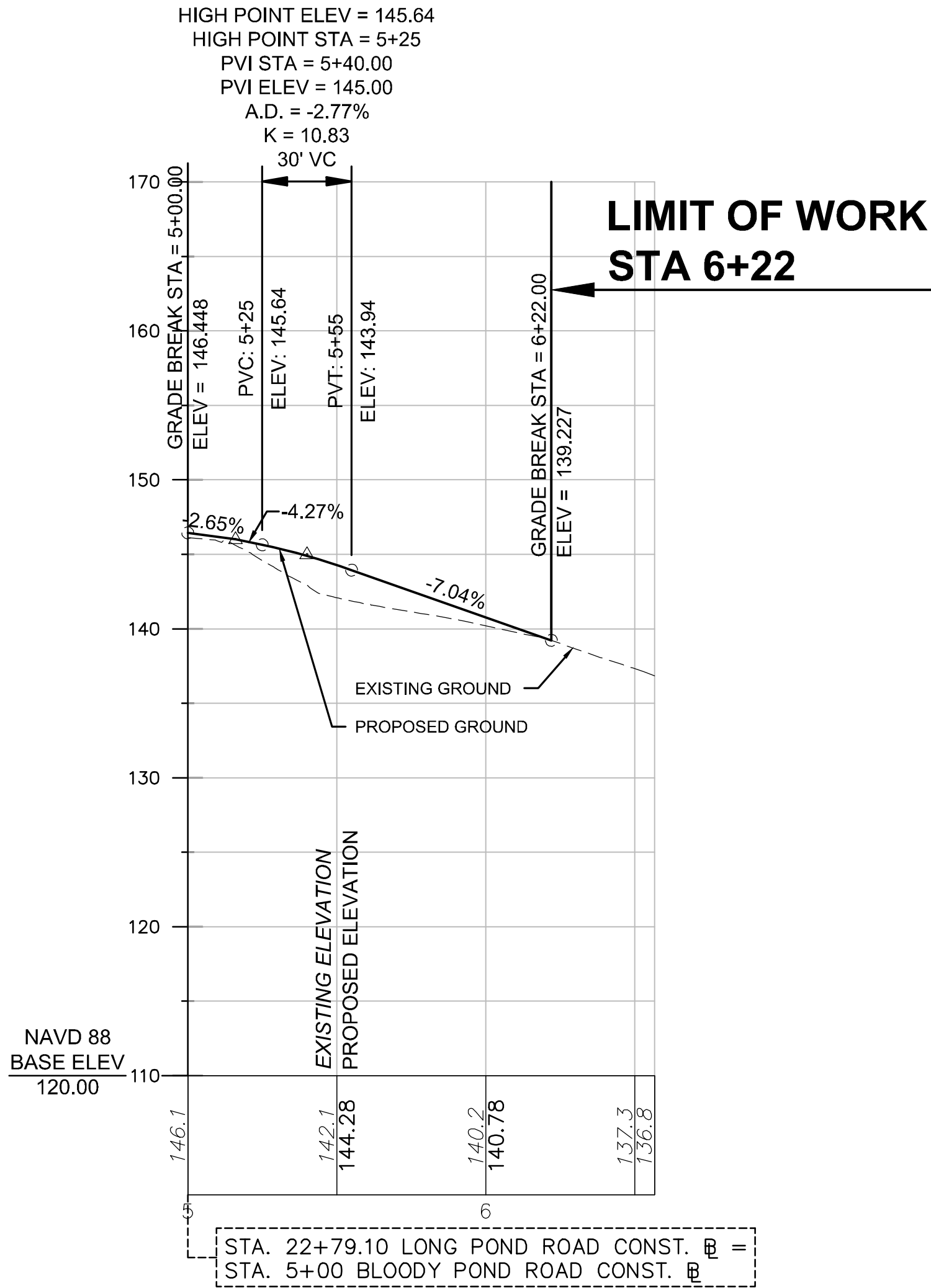
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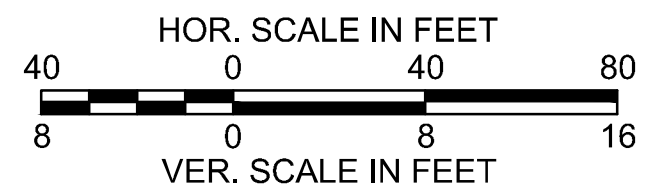
LONG POND ROAD



HALFWAY POND ROAD



BLOODY POND ROAD



PROJECT TITLE

Redbrook Mixed Use Development

Plymouth, Massachusetts

PREPARED FOR

ADM Development Services, LLC

Wareham, Massachusetts



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NO.	DESCRIPTION	DATE
1.	UPDATED UPL LOCATIONS	2/25/25

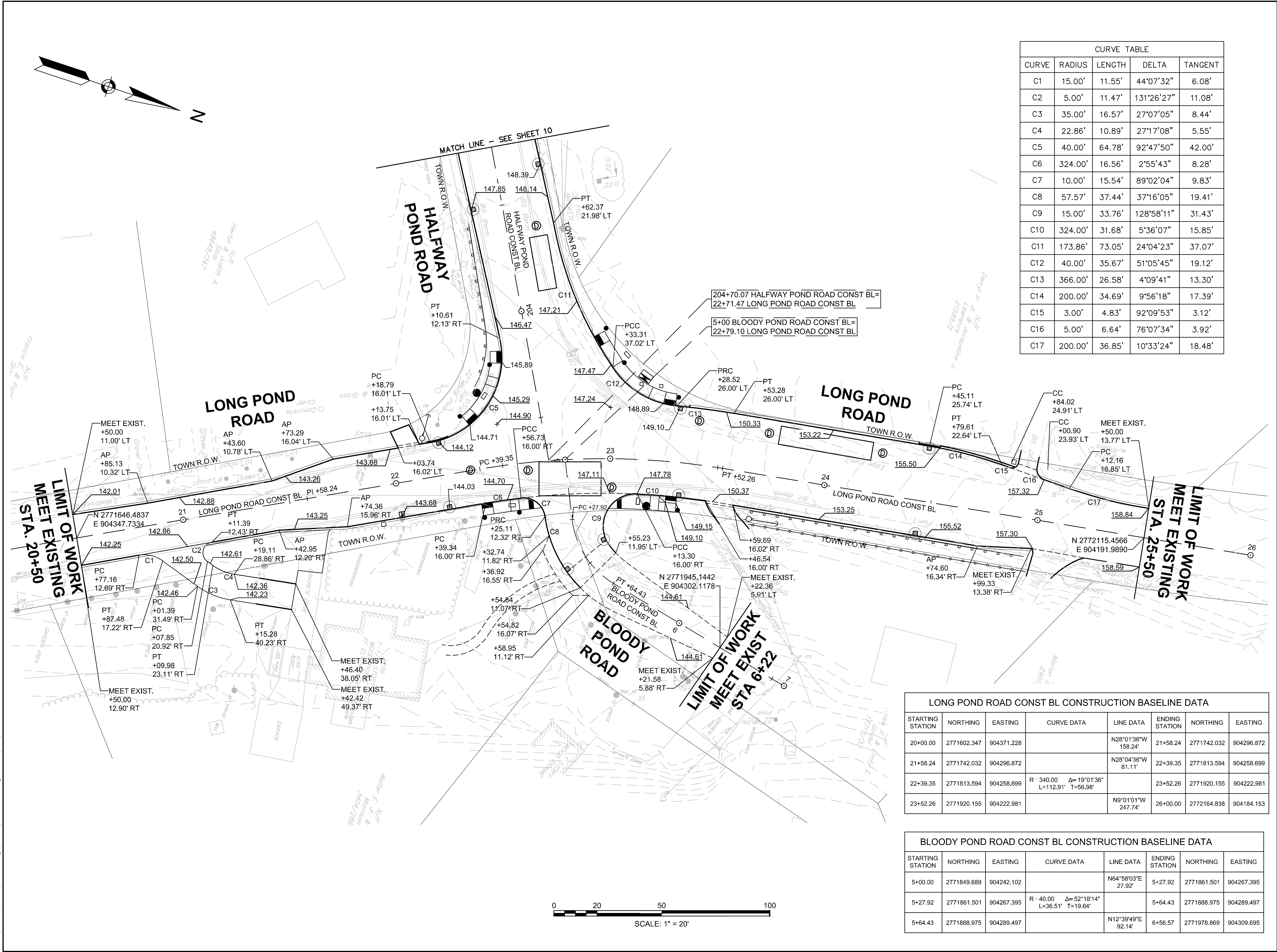
DRAWING TITLE

Profiles

SHEET 8 OF 33	DRAWING NUMBER
JOB NO. 5452	8
CAD 5452PR	

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CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	15.00'	11.55'	44°07'32"	6.08'
C2	5.00'	11.47'	131°26'27"	11.08'
C3	35.00'	16.57'	27°07'05"	8.44'
C4	22.86'	10.89'	27°17'08"	5.55'
C5	40.00'	64.78'	92°47'50"	42.00'
C6	324.00'	16.56'	2°55'43"	8.28'
C7	10.00'	15.54'	89°02'04"	9.83'
C8	57.57'	37.44'	37°16'05"	19.41'
C9	15.00'	33.76'	128°58'11"	31.43'
C10	324.00'	31.68'	5°36'07"	15.85'
C11	173.86'	73.05'	24°04'23"	37.07'
C12	40.00'	35.67'	51°05'45"	19.12'
C13	366.00'	26.58'	4°09'41"	13.30'
C14	200.00'	34.69'	9°56'18"	17.39'
C15	3.00'	4.83'	92°09'53"	3.12'
C16	5.00'	6.64'	76°07'34"	3.92'
C17	200.00'	36.85'	10°33'24"	18.48'

LONG POND ROAD CONST BL CONSTRUCTION BASELINE DATA							
STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
20+00.00	2771602.347	904371.228		N28°01'36"W 158.24'	21+58.24	2771742.032	904296.872
21+58.24	2771742.032	904296.872		N28°04'36"W 81.11'	22+39.35	2771813.594	904258.699
22+39.35	2771813.594	904258.699	R=340.00' Δ=19°01'36" L=112.91' T=56.98'		23+52.26	2771920.155	904222.981
23+52.26	2771920.155	904222.981		N9°01'01"W 247.74'	26+00.00	2772164.838	904184.153

BLOODY POND ROAD CONST BL CONSTRUCTION BASELINE DATA							
STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
5+00.00	2771849.689	904242.102		N64°58'03"E 27.92'	5+27.92	2771861.501	904267.395
5+27.92	2771861.501	904267.395	R=40.00' Δ=52°18'14" L=36.51' T=19.64'		5+64.43	2771888.975	904289.497
5+64.43	2771888.975	904289.497		N12°39'49"E 92.14'	6+56.57	2771978.869	904309.695

PROJECT TITLE

Redbrook Mixed Use
Development

Plymouth,
Massachusetts

PREPARED FOR

ADM Development
Services, LLC

Wareham,
Massachusetts

VA Vanasse &
Associates inc
Transportation Engineers & Planners

35 N.E. BUSINESS CENTER DRIVE
ANDOVER, MA 01810-1071
TEL: (978) 474-8800
www.rdma.com

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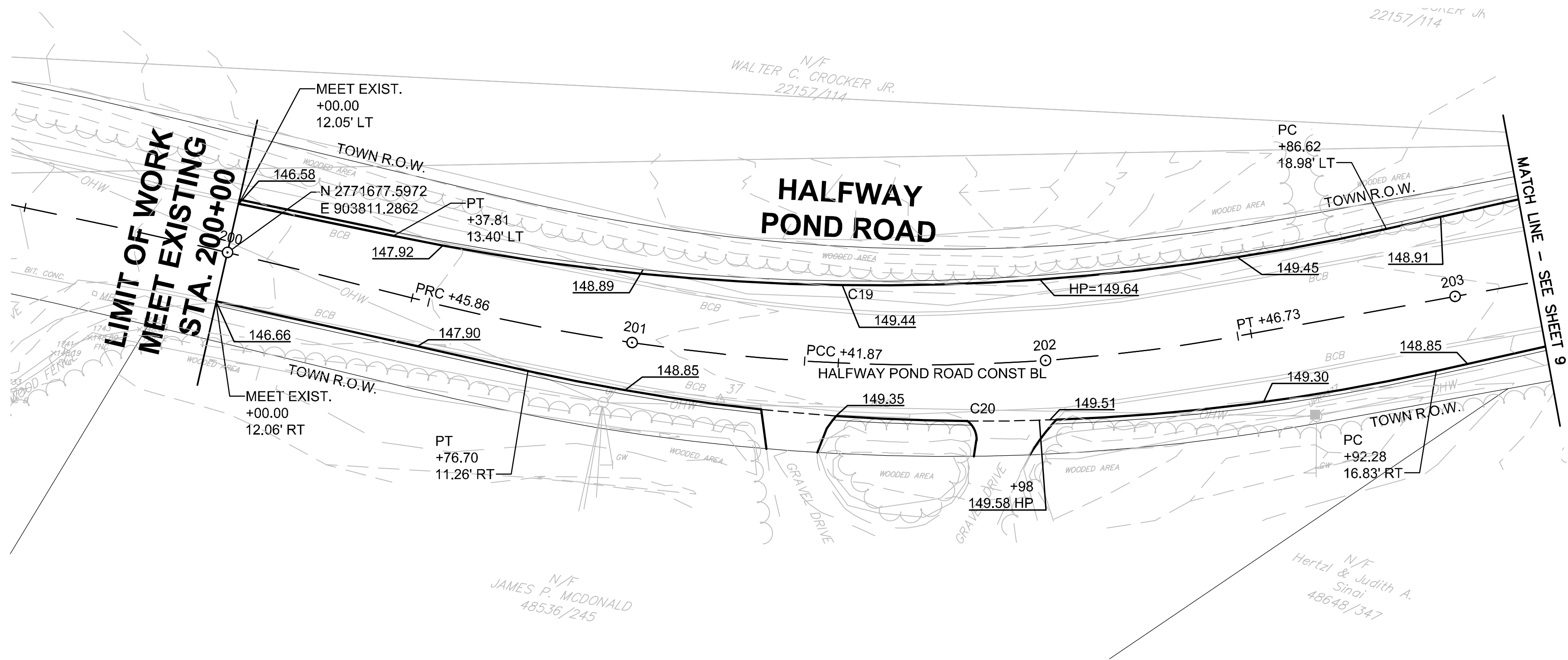
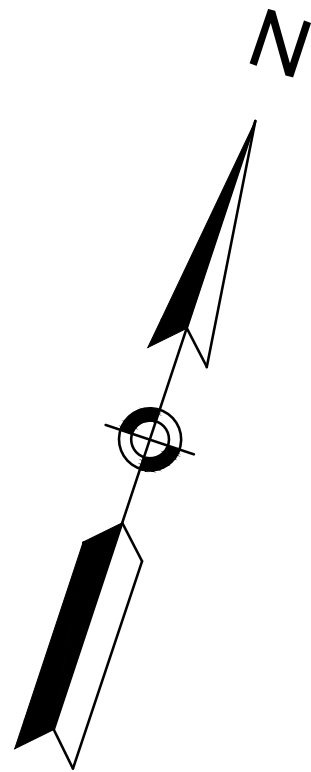
REVISIONS		
NO.	DESCRIPTION	DATE
1.	UPDATED UPL LOCATIONS	2/25/25

DRAWING TITLE

Curb Tie, Grading &
Alignment Plans

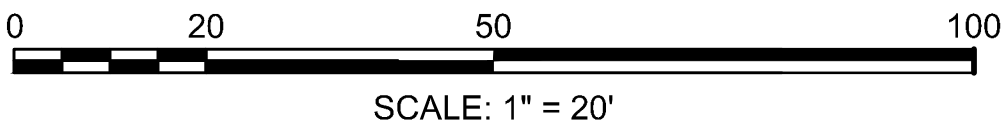
SHEET 9 OF 33	DRAWING NUMBER
JOB NO. 5452	9
CAD 5452CT	

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HALFWAY POND ROAD CONST BL CONSTRUCTION BASELINE DATA							
STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
199+45.33	2771672.017	903756.899	R = 2010.00' Δ= 2°51'56" L=100.53' T=50.28'		200+45.86	2771681.262	903856.993
200+45.86	2771681.262	903856.993	R = 510.00' Δ= 10°47'13" L=96.02' T=48.15'		201+41.87	2771696.654	903951.625
201+41.87	2771696.654	903951.625	R = 425.00' Δ= 14°08'08" L=104.85' T=52.69'		202+46.73	2771735.227	904048.839
202+46.73	2771735.227	904048.839		N61°17'23"E 223.35'	204+70.07	2771842.518	904244.727

CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C19	568.00'	240.95'	24°18'18"	122.31'
C20	500.00'	220.07'	25°13'05"	111.85'



PROJECT TITLE

Redbrook Mixed Use Development

Plymouth, Massachusetts

PREPARED FOR

ADM Development Services, LLC

Wareham, Massachusetts



35 N.E. BUSINESS CENTER DRIVE
ANDOVER, MA 01810-1071
TEL: (978) 474-8800
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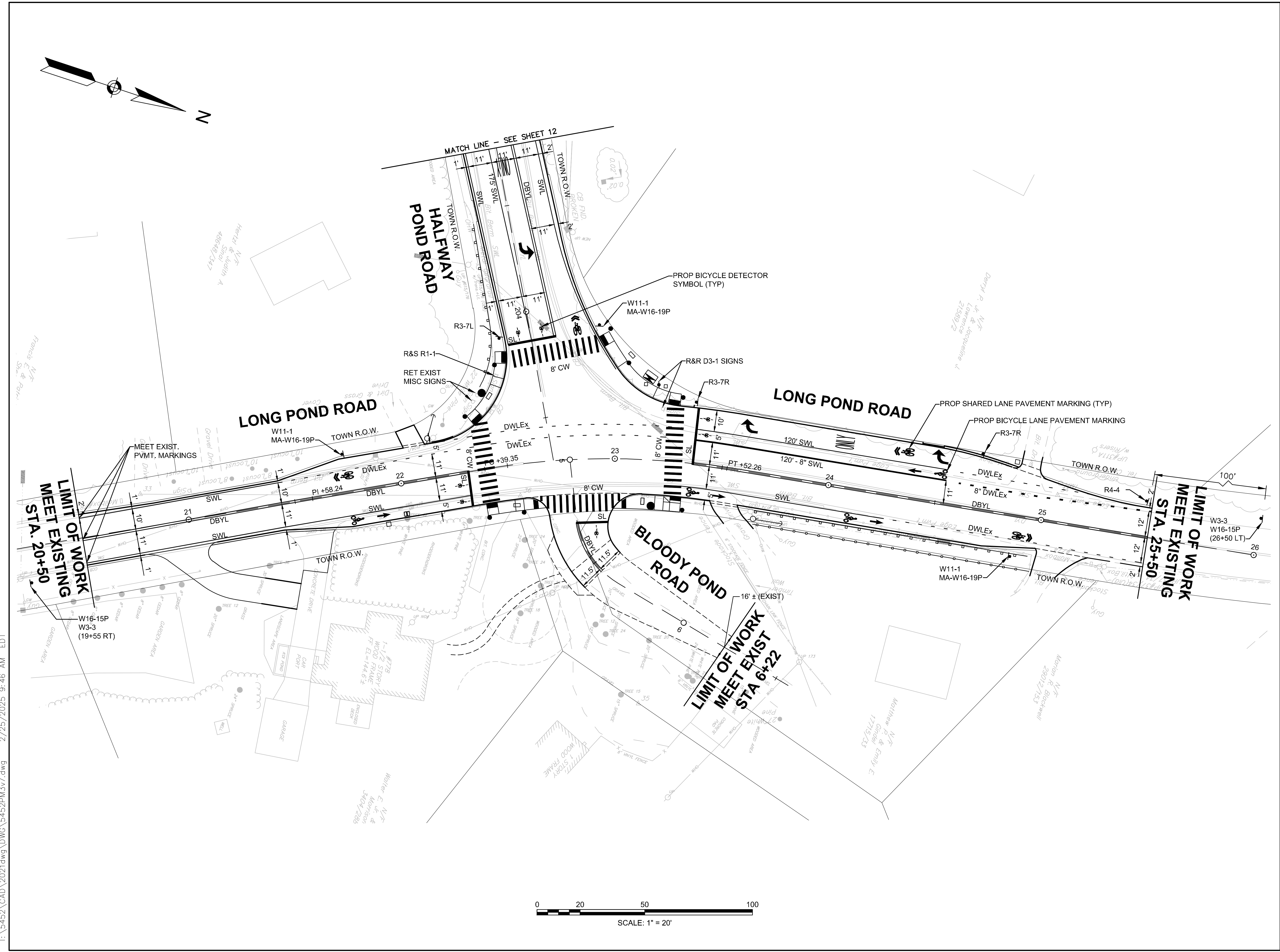
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NO.	DESCRIPTION	DATE
1.	UPDATED UPL LOCATIONS	2/25/25

DRAWING TITLE

Curb Tie, Grading & Alignment Plans

SHEET 10 OF 33	DRAWING NUMBER
JOB NO. 5452	10
CAD 5452CT	

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PROJECT TITLE

Redbrook Mixed Use Development

Plymouth, Massachusetts

PREPARED FOR

ADM Development Services, LLC

Wareham, Massachusetts

Vanasse & Associates inc

Transportation Engineers & Planners

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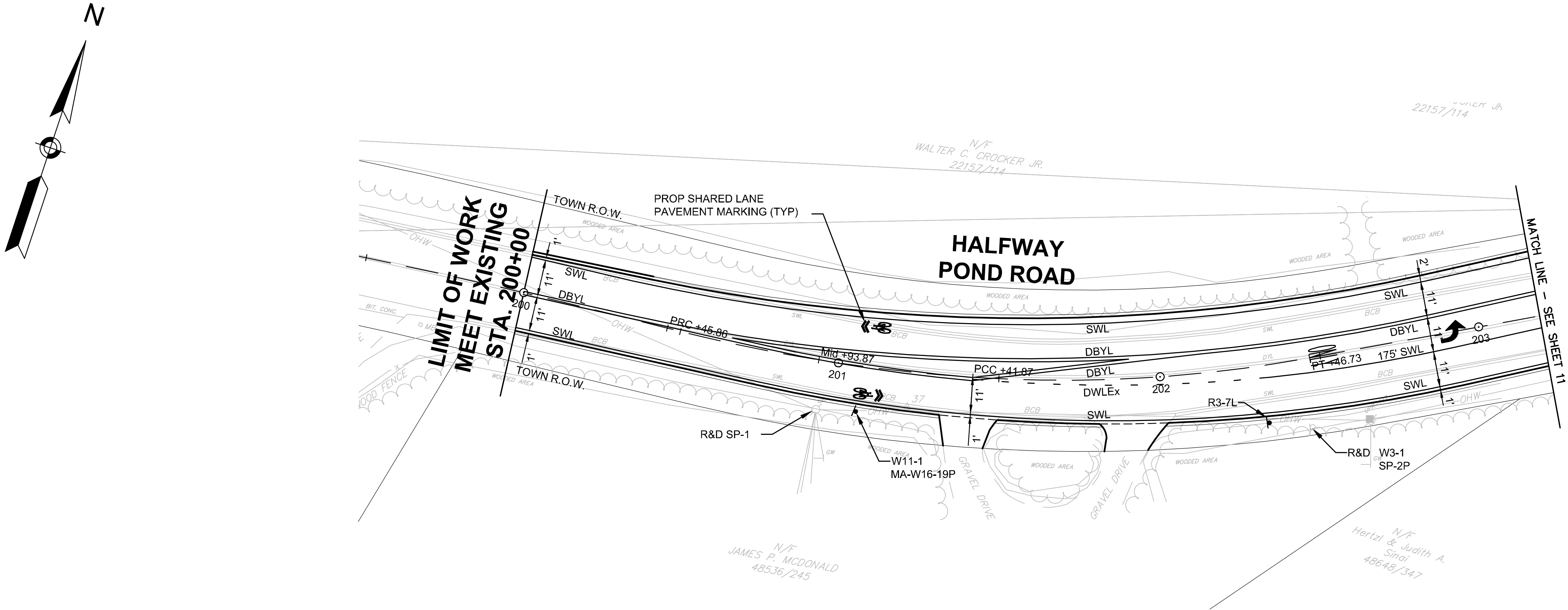
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1.	UPDATED UPL LOCATIONS	2/25/25

DRAWING TITLE

Pavement Marking & Signing Plans

SHEET 11 OF 33	DRAWING NUMBER
JOB NO. 5452	11
CAD 5452PM3V7	

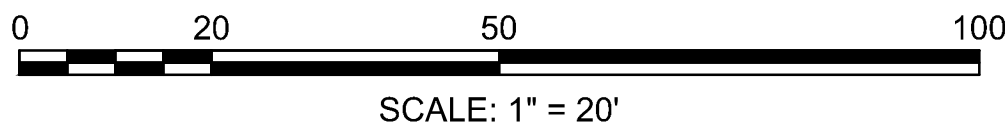
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IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCH)			NUMBER OF SIGNS REQUIRED	BACK- GROUND	COLOR	BORDER	POST TYPE AND NUMBER REQUIRED	AREA PER SIGN	TOTAL AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	RTE. MKR. ARROW							
R3-7L	30"	30"	LEFT LANE MUST TURN LEFT	SEE FHWA STANDARD HIGHWAY SIGNS 2004 EDITION			2	WHITE	BLACK	BLACK	P-5 2	6.25	12.50
R3-7R	30"	30"	RIGHT LANE MUST TURN RIGHT				2	WHITE	BLACK	BLACK	P-5 2	6.25	12.50
R4-4	36"	30"	BEGIN RIGHT TURN LANE YIELD TO BIKES				1	WHITE	BLACK	BLACK	P-5 1	7.50	7.50
W3-3	30"	30"					2	YELLOW	BLACK/ RED/ GREEN	BLACK	P-5 2	6.25	18.75
W11-1	30"	30"					4	YELLOW	BLACK	BLACK	P-5 4	6.25	25.00
W16-15P**	24"	12"	NEW				2	YELLOW	BLACK	BLACK	MOUNT ABOVE W3-3	2.00	6.00
MA-W16-19P	24"	18"	ON ROADWAY				4	YELLOW	BLACK	BLACK	MOUNT BELOW W11-1	3.00	12.00
D3-1	-	-	Halfway Pond Rd				1 (EXISTING)	-	-	-	P-5 1	-	-

*NOTES:
1. SIGNS TO BE MOUNTED ON MAST ARMS SHALL BE THROUGH BOLTED AND FIXED MOUNTED USING ASTRO SIGN-BRAC® OR APPROVED EQUAL.

**NOTE: THE W16-15p "NEW" PLAQUE SHALL BE REMOVED 4 MONTHS AFTER THE SIGNAL INSTALLATION, BUT NO LATER THAN 6 MONTHS AFTER SIGNAL INSTALLATION.



EXISTING SIGN LEGEND	
R1-1	STOP
SP-1	CHILDREN
SP-2P	STOP AHEAD
W3-1	

PROJECT TITLE

Redbrook Mixed Use
Development

Plymouth,
Massachusetts

PREPARED FOR

ADM Development
Services, LLC

Wareham,
Massachusetts

**Vanasse &
Associates inc**
Transportation Engineers & Planners

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TEL: (978) 474-8800
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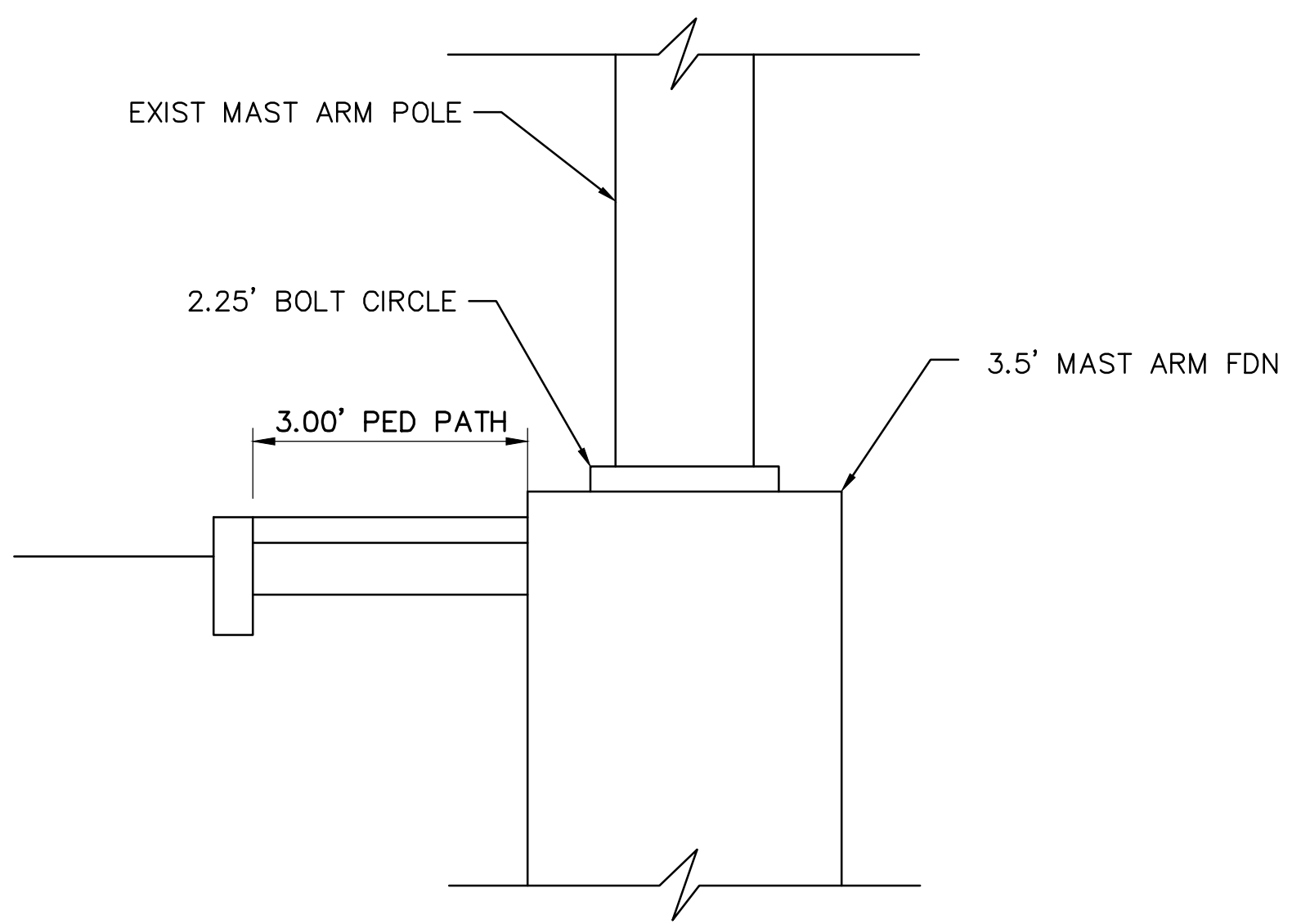
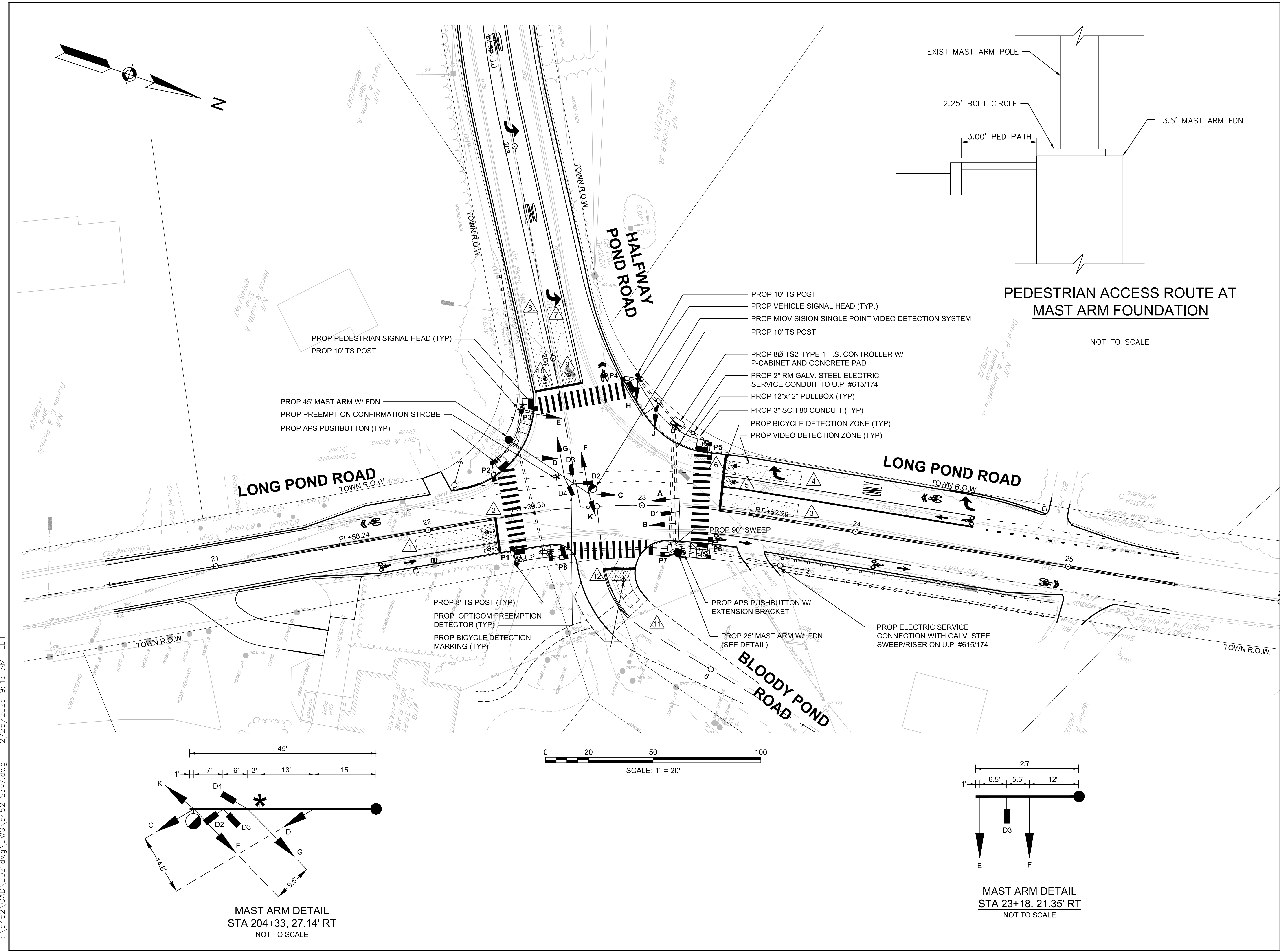
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NO.	DESCRIPTION	DATE
1.	UPDATED UPL LOCATIONS	2/25/25

DRAWING TITLE

Pavement Marking
& Signing Plans

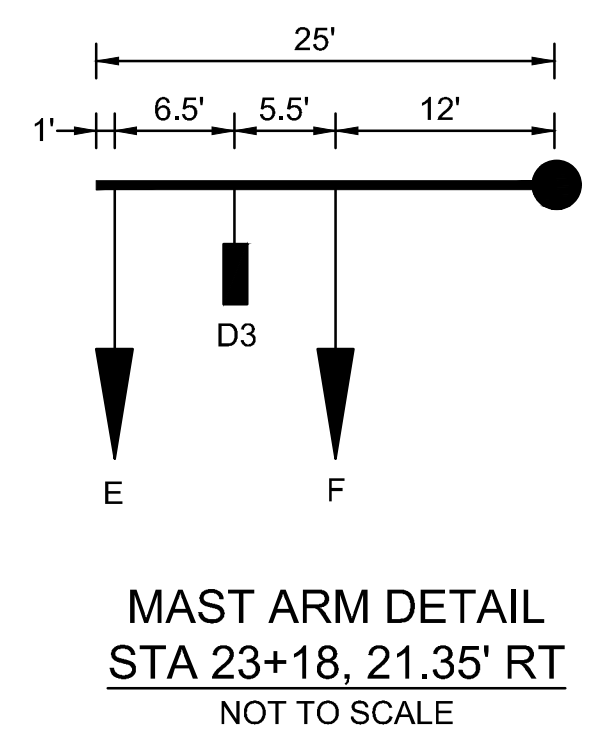
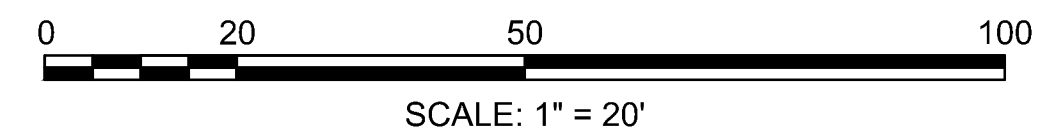
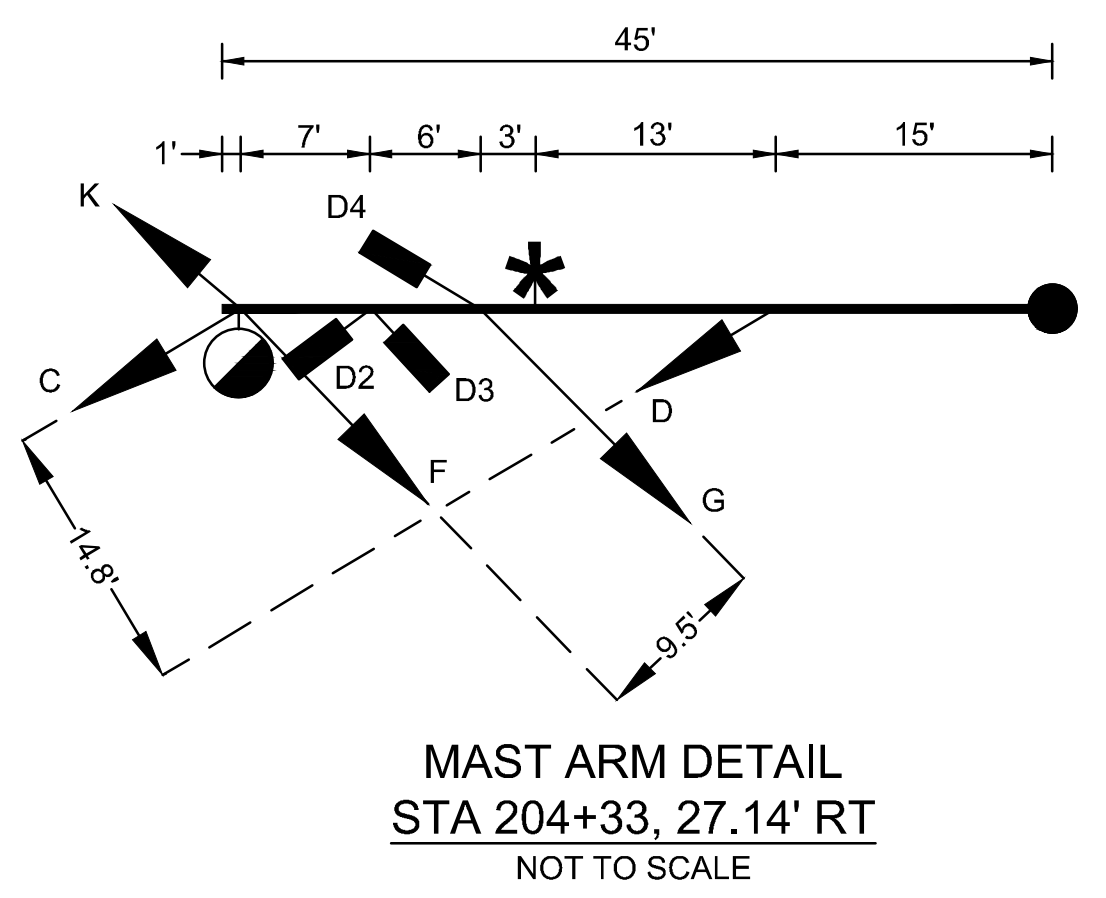
SHEET 12 OF 33	DRAWING NUMBER
JOB NO. 5452	12
CAD 5452PM3V7	

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PEDESTRIAN ACCESS ROUTE AT MAST ARM FOUNDATION

NOT TO SCALE



PROJECT TITLE
Redbrook Mixed Use Development

 Plymouth, Massachusetts

 PREPARED FOR
ADM Development Services, LLC
 Wareham, Massachusetts

Vanasse & Associates inc
 Transportation Engineers & Planners
 35 N.E. BUSINESS CENTER DRIVE
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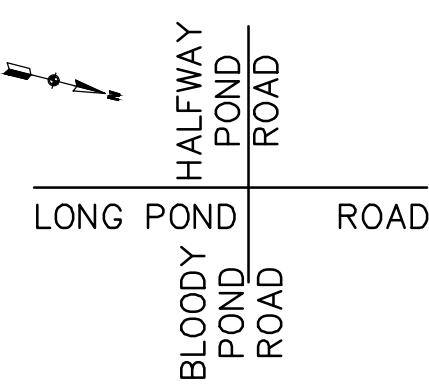
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1.	UPDATED UPL LOCATIONS	2/25/25

DRAWING TITLE

Traffic Signal Plans

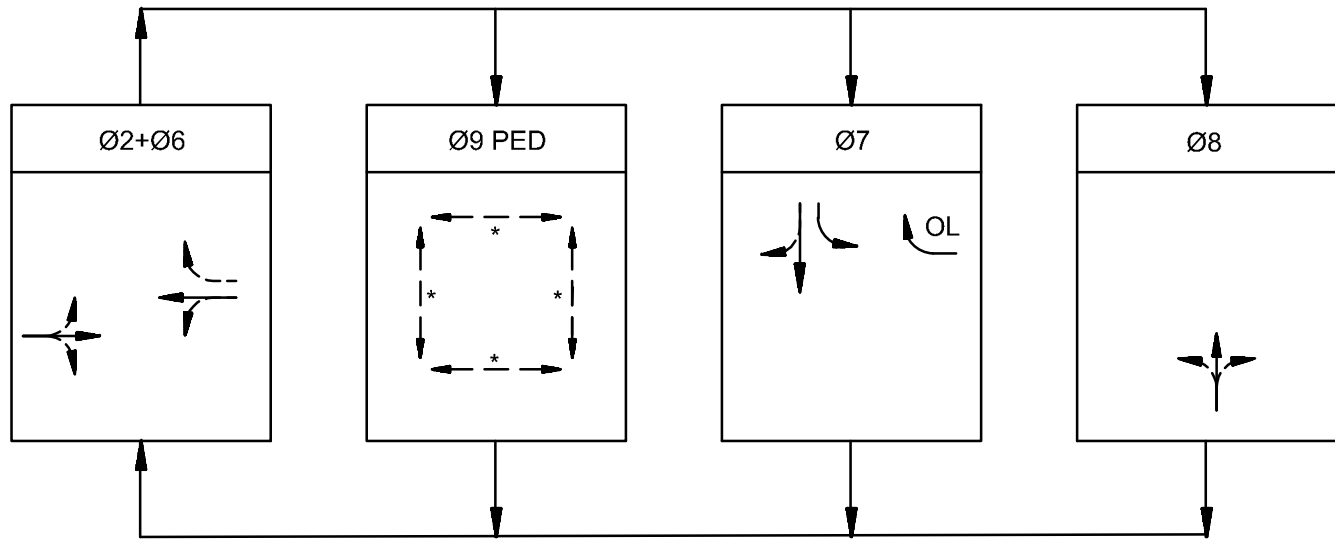
SHEET 13 OF 33	DRAWING NUMBER
JOB NO. 5452	13
CAD 5452TS3V7	

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<div><div>LONG POND ROAD AT HALFWAY POND ROAD AND BLOODY POND ROAD PLYMOUTH, MA</div></div>				SEQUENCE AND TIMING CHART																																
				PHASE 1				PHASE 2				PHASE 3				PHASE 4				PHASE 5				PHASE 6				PHASE 7				PHASE 8				PHASE 9 (PED)
NOT USED								NOT USED				NOT USED				NOT USED																				
SEQUENCE AND TIMING																																				
APPROACH	DIRECTION	FACE	ø	R/W	CL1	CL2	R/W	CL1	CL2	R/W	CL1	CL2	R/W	CL1	CL2	R/W	CL1	CL2	R/W	CL1	CL2	R/W	CL1	CL2	R/W	CL1	CL2	R/W	CL1	CL2						
LONG POND ROAD	NB	A,B	ø2				G	Y	R										R	R	R	R	R	R	R	R	R	R	R	R	R	FY				
LONG POND ROAD	SB	C,D	ø6				R	R	R										G	Y	R	R	R	R	R	R	R	R	R	R	R	FY				
LONG POND ROAD	SBRT	E	ø6/ø7				R	R	R										G	Y	R	R/G	R/Y	R	R	R	R	R	R	R	R	FY				
HALFWAY POND ROAD	EBLT	F	ø7				R	R	R										R	R	R	G/G	Y	R	R	R	R	R	R	R	R	FR				
HALFWAY POND ROAD	EB	G	ø7				R	R	R										R	R	R	G	Y	R	R	R	R	R	R	R	R	FR				
BLOODY POND ROAD	WB	H,J,K	ø8				R	R	R										R	R	R	R	R	R	G	Y	R	R	R	R	R	FR				
PEDESTRIAN	ALL	P1-P8					DW	DW	DW										DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OFF				
TIMING IN SECONDS																																				
MINIMUM GREEN							6												6			6			6											
VEHICLE INTERVAL							2												2			2			2											
MAXIMUM GREEN I (ALL OTHER TIMES)							30												30			45			15											
MAXIMUM GREEN II							30												30			45			15											
YELLOW CLEAR								3												3			3			3										
ALL RED CLEAR									2												2			2			2									
WALK INTERVAL																												7								
PED. CLEARANCE																													9		4					
DETECTOR							NON-LOCK												NON-LOCK				NON-LOCK				NON-LOCK				NON-LOCK					
RECALL							SOFT												SOFT				OFF				OFF				OFF					

NOTES: 1. FLASHING OPERATION PER M.U.T.C.D.
OL = OVERLAP
* UPON PEDESTRIAN PUSHBUTTON ACTUATION ONLY

PREFERENTIAL PHASING SEQUENCE

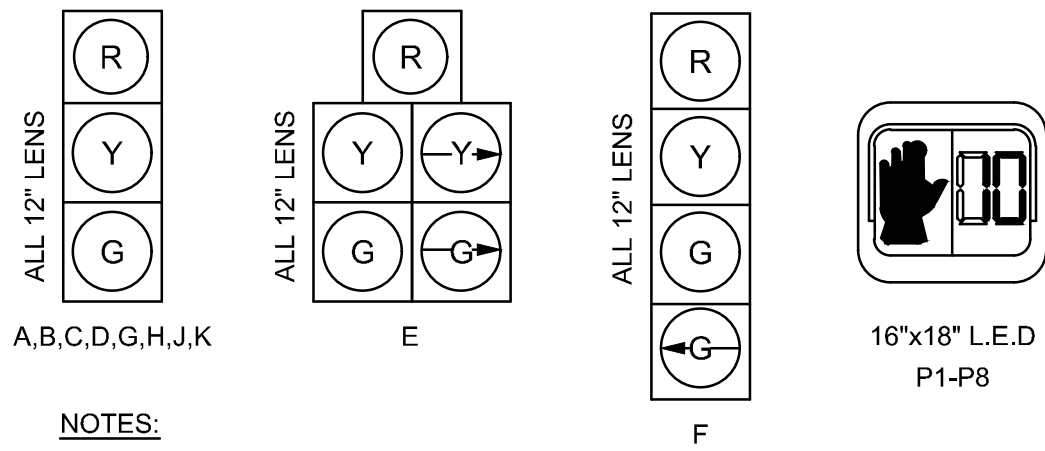


NOTES: 1. ANY PHASE OR PHASE COMBINATION NOT CALLED WILL BE SKIPPED.
OL = OVERLAP
* UPON PEDESTRIAN PUSHBUTTON ACTUATION ONLY

CONSTRUCTION NOTES:

1. CONTROLLER PROGRAMMING SHALL BE ACCOMPLISHED BY QUALIFIED FACTORY REPRESENTATIVES.

SIGNAL IDENTIFICATION



NOTES:
1. ALL SIGNALS SHALL HAVE 12" LED WITH 5" FLAT BACKPLATES WITH 3" YELLOW RETRO REFLECTIVE BORDER.
2. ALL SIGNALS SHALL HAVE CUT TUNNEL VISORS.

VIDEO DETECTOR DATA

DETECTOR ZONE	CAMERA	PHASE	DIRECTION	DELAY/EXTEND	CALL PHASE	EXTEND PHASE
1	360°	02	NB	0	2	2
2	360° BICYCLE	02	NB	0	2	2
3	360°	06	SBLT	0	6	6
4	360°	06	SBR	0	6	6
5	360° BICYCLE	06	SB	0	6	6
6	360° BICYCLE	06	SB	0	6	6
7	360°	07	EBL	0	7	7
8	360°	07	EBTR	0	7	7
9	360° BICYCLE	07	EBL	0	7	7
10	360° BICYCLE	07	EBTR	0	7	7
11	360°	08	WB	0	8	8
12	360° BICYCLE	08	WB	0	8	8

EMERGENCY PREEMPTION SCHEDULE

DETECTOR	APPROACH	PREEMPTION PHASE	NEXT PHASE * CALLED
D1	NB	02	02+06
D2	SB	06	02+06
D3	EB	07	02+06
D4	WB	08	02+06

EMERGENCY VEHICLE PREEMPTION OPERATION:

- EMERGENCY VEHICLE PREEMPTION SHALL BE ACTUATED BY AN OPTICAL SIGNAL FROM AN OPTICAL EMITTER MOUNTED ON AN EMERGENCY VEHICLE AND RECEIVED BY AN OPTICAL DETECTOR LOCATED AT INTERSECTION. A SEPARATE RECEIVING DETECTOR IS REQUIRED FOR EACH DETECTED APPROACH. PREEMPTION SIGNALS FROM MULTIPLE APPROACHES SHALL BE SERVICED ON A FIRST DETECTED FIRST SERVED BASIS.
- IN RESPONSE TO A PREEMPTION SIGNAL RECEIVED AT AN INTERSECTION BY AN OPTICAL DETECTOR, THE CONTROLLER SHALL TIME THE CLEARANCE INTERVALS OF THE ACTIVE PHASE (IF DIFFERENT THAT TO BE SERVICED) AND ADVANCE TO AND/OR HOLD IN EMERGENCY VEHICLE PREEMPTION PHASE UNTIL PREEMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME CLEARANCES AND SIMILARLY SERVICE OTHER EMERGENCY VEHICLE PREEMPTION SEQUENCES IN THE ORDER RECEIVED (IF RECEIVED) OTHERWISE, RESUME NORMAL PREFERENTIAL PHASE SEQUENCE.
- PREEMPTION MINIMUM GREENS SHALL BE TEN SECONDS.
- NORMAL CLEARANCES SHALL BE PROVIDED ON PHASES THAT ARE TERMINATED BY PREEMPTION DEMAND.
- LOCATION OF THE PROPOSED PRE-EMPTION DETECTORS AND ACTUAL TIMING FOR PREEMPTION SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FIRE DEPARTMENT AND SHALL BE APPROVED BY THE TOWN OF PLYMOUTH PRIOR TO OPERATION.

PROJECT TITLE

Redbrook Mixed Use Development

Plymouth, Massachusetts

PREPARED FOR

ADM Development Services, LLC

Wareham, Massachusetts



35 N.E. BUSINESS CENTER DRIVE
ANDOVER, MA 01810-1071
TEL: (978) 474-8800
www.rdva.com

DESIGNED BY	TWO
DRAWN BY	MPP
CHECKED BY	JPC
DATE	FEB 2025
SCALE	1" = 20'
STAMP	

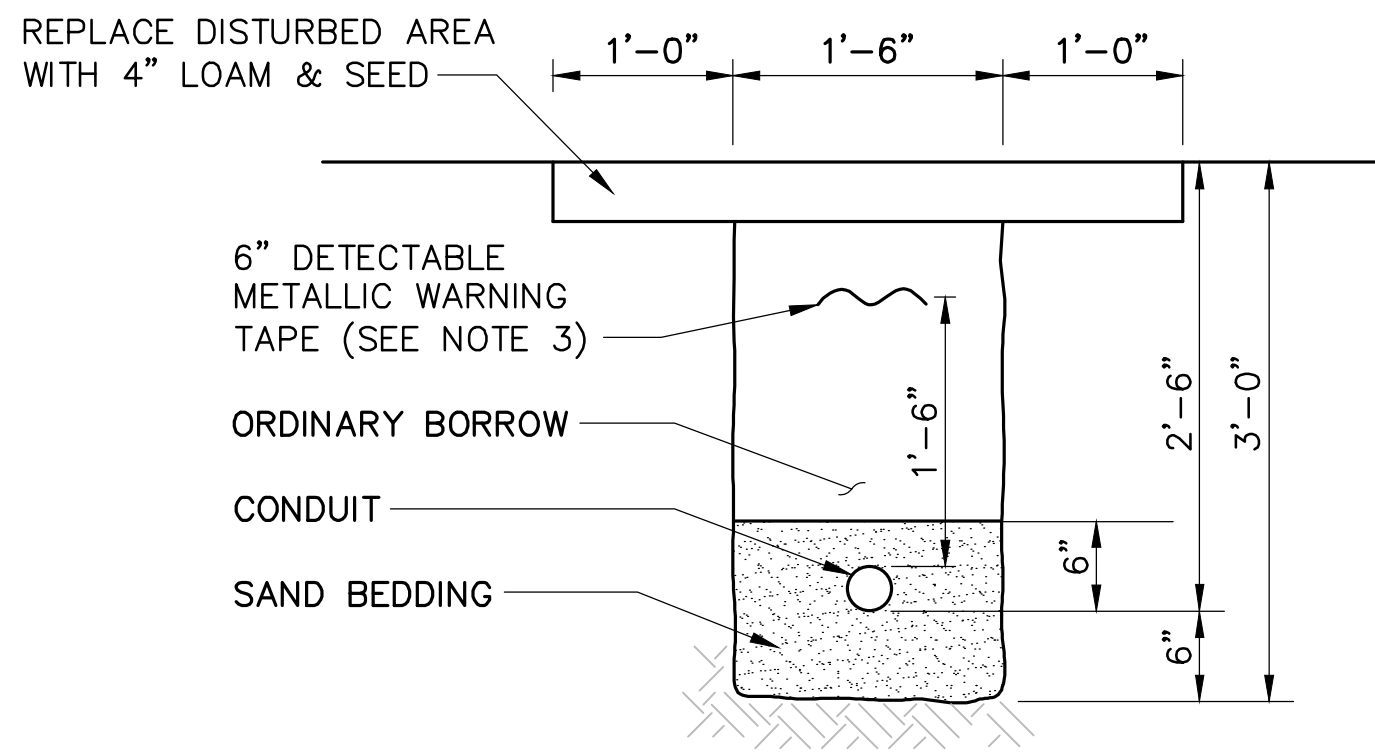
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NO.	DESCRIPTION	DATE
1.	UPDATED UPL LOCATIONS	2/25/25

DRAWING TITLE

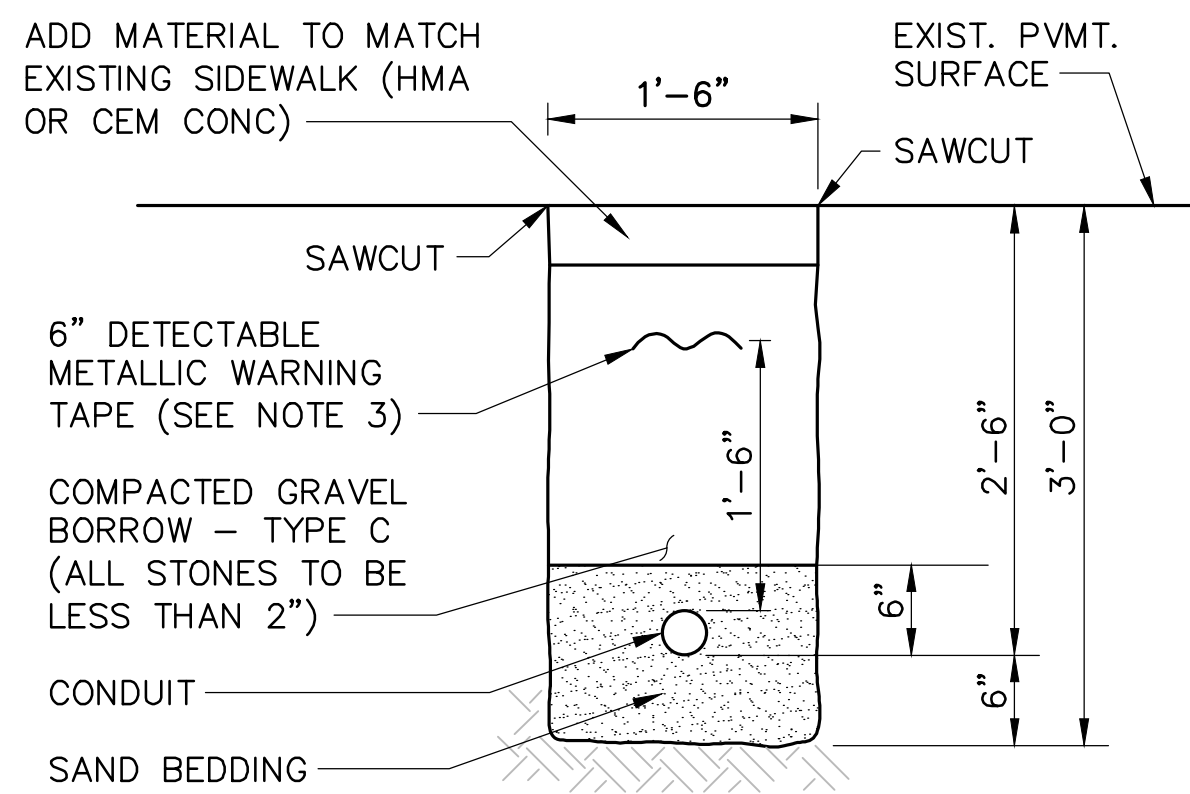
Traffic Signal Data

SHEET 14 OF 33	DRAWING NUMBER
JOB NO. 5452	14
CAD 5452TS3V7	

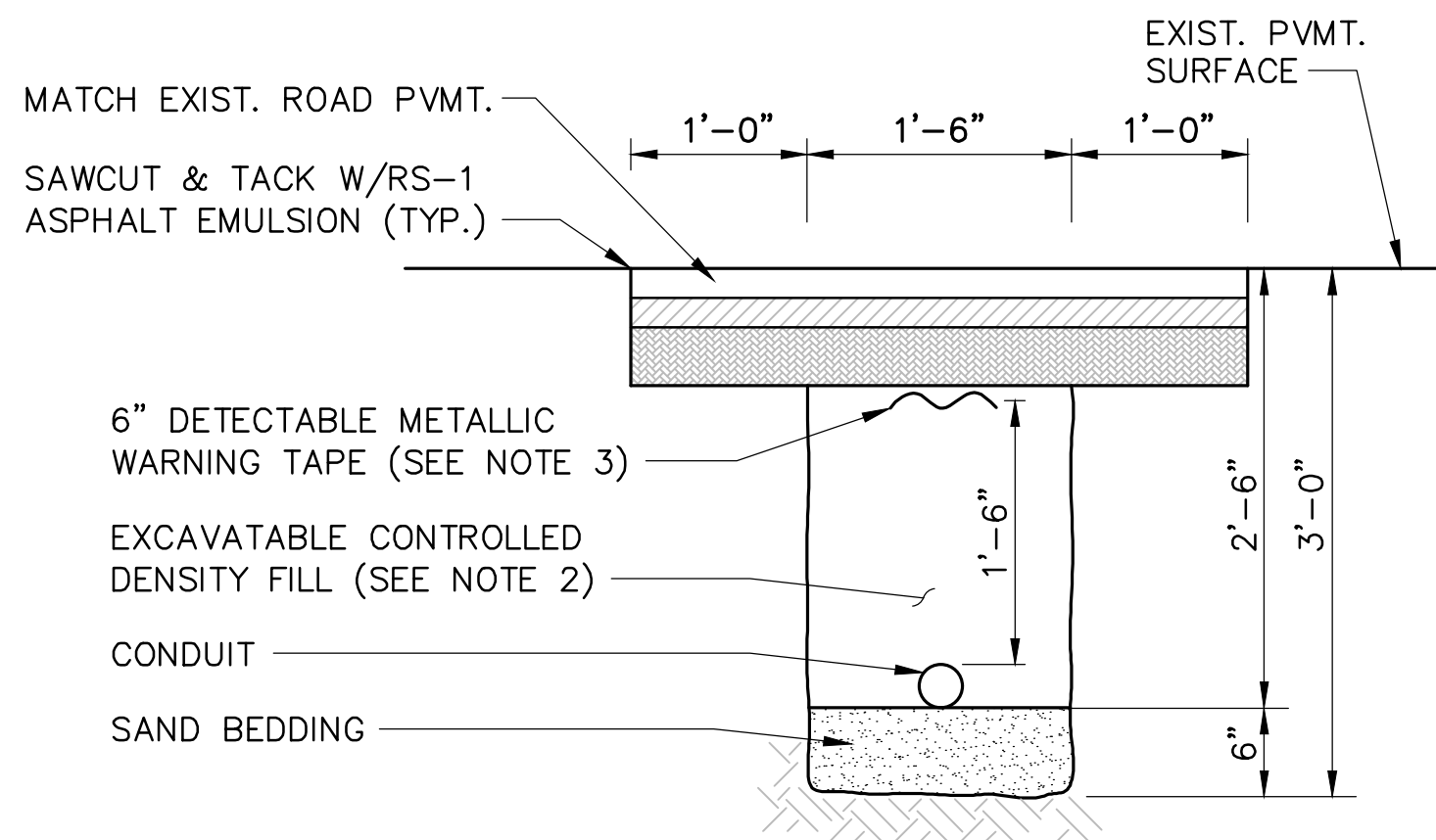
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TRAFFIC SIGNAL CONDUIT TRENCH
GRASS AREAS
NOT TO SCALE



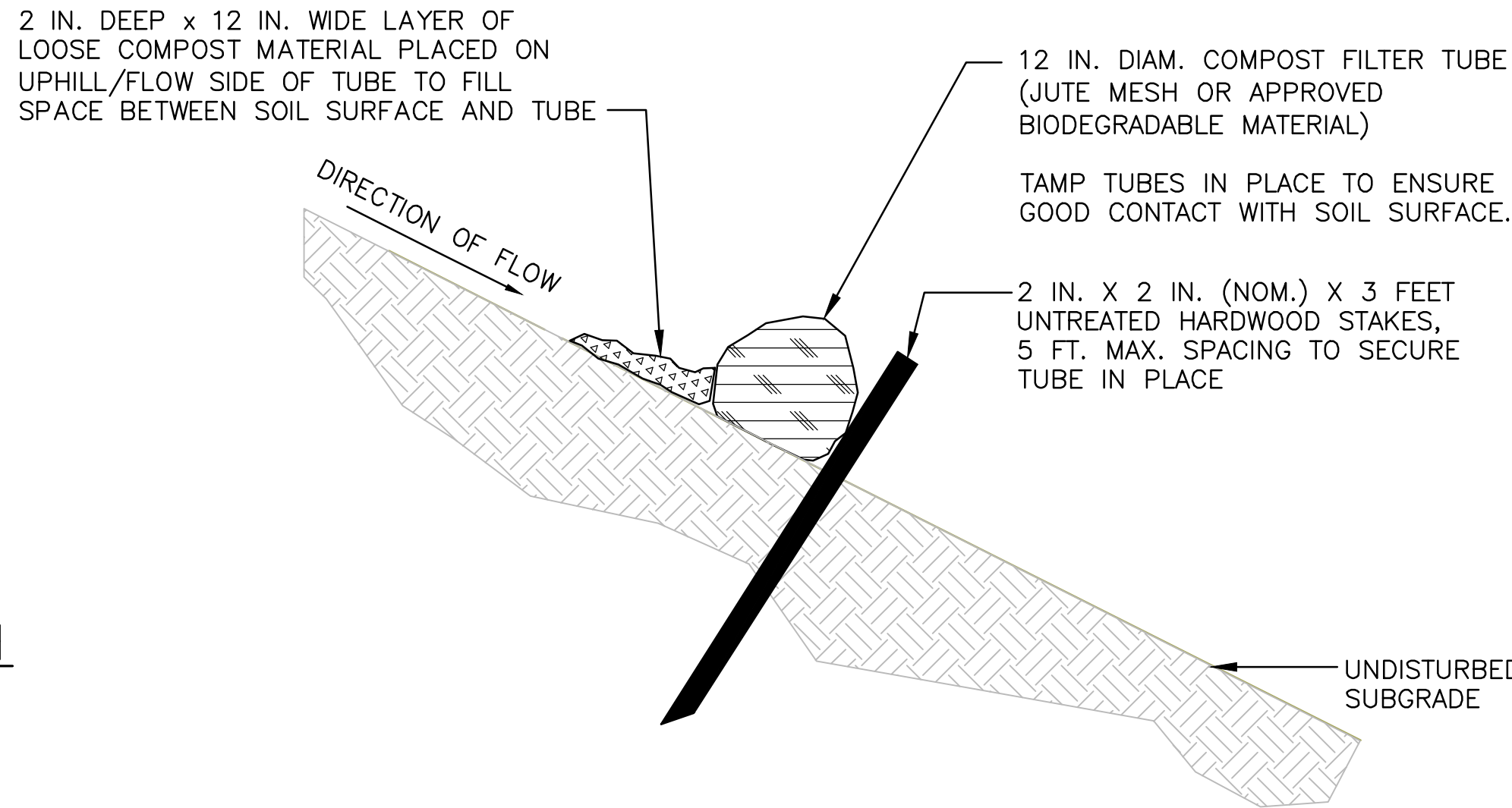
TRAFFIC SIGNAL CONDUIT TRENCH
SIDEWALK AREAS
NOT TO SCALE



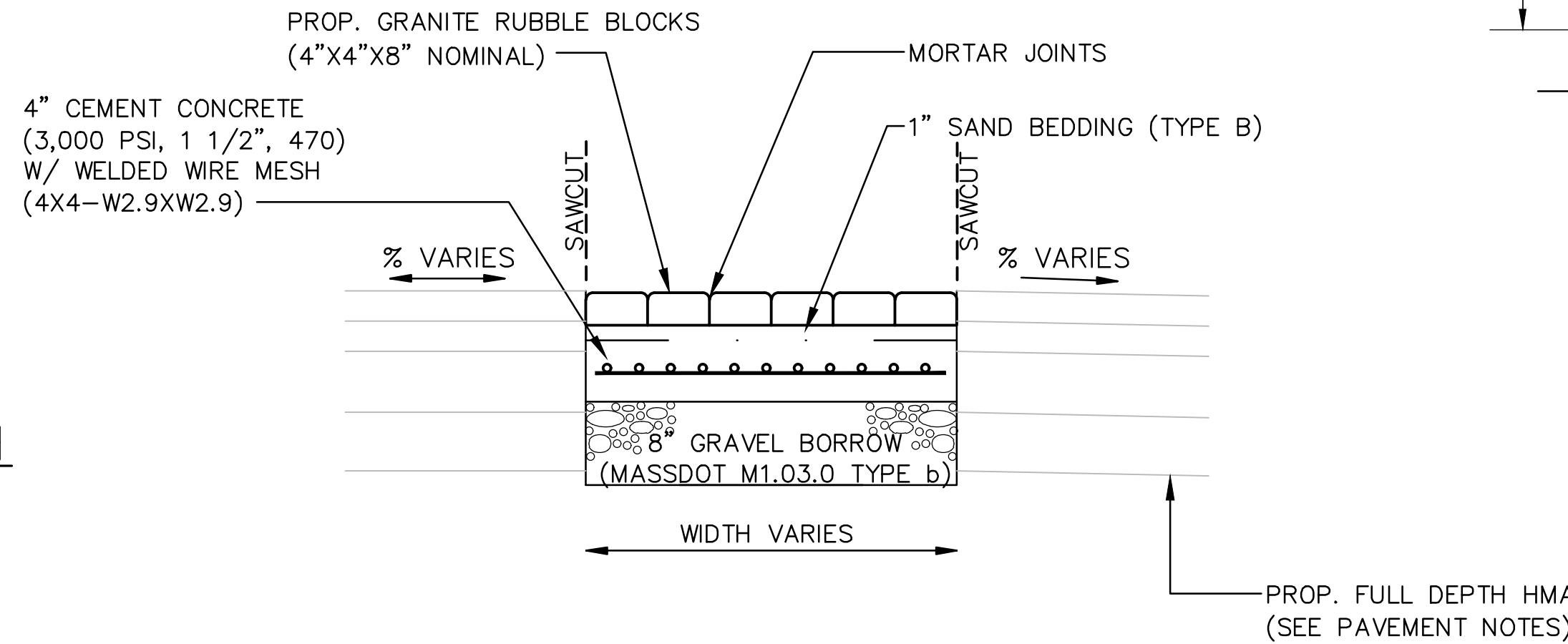
TRAFFIC SIGNAL CONDUIT TRENCH
ROADWAY CROSSING
NOT TO SCALE

TRAFFIC SIGNAL CONDUIT TRENCH NOTES:

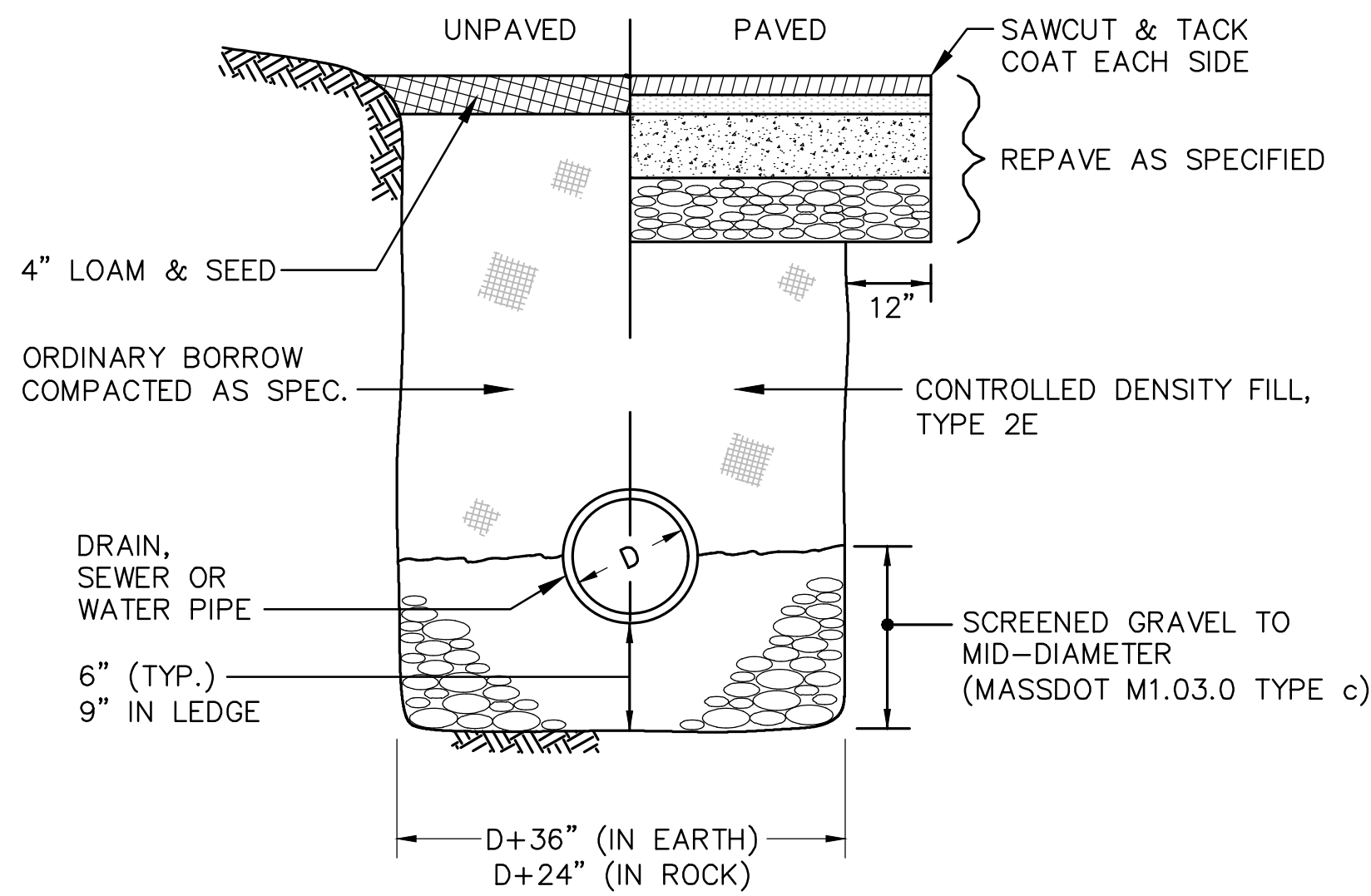
1. SCHEDULE 80 ELECTRICAL CONDUIT TYPE NM-PLASTIC (UL), WITH PULL ROPE.
2. CONTROLLED DENSITY FILL SHALL MEET THE REQUIREMENTS OF SUBSECTION M4.08.0.
3. WARNING TAPE COLOR SHALL BE PER APWA STANDARDS.
4. FOR DOUBLE BANK CONDUIT, INCREASE TRENCH WIDTH TO 24 INCHES AND PLACE CONDUITS WITH 3 INCH CLEAR SPACING.



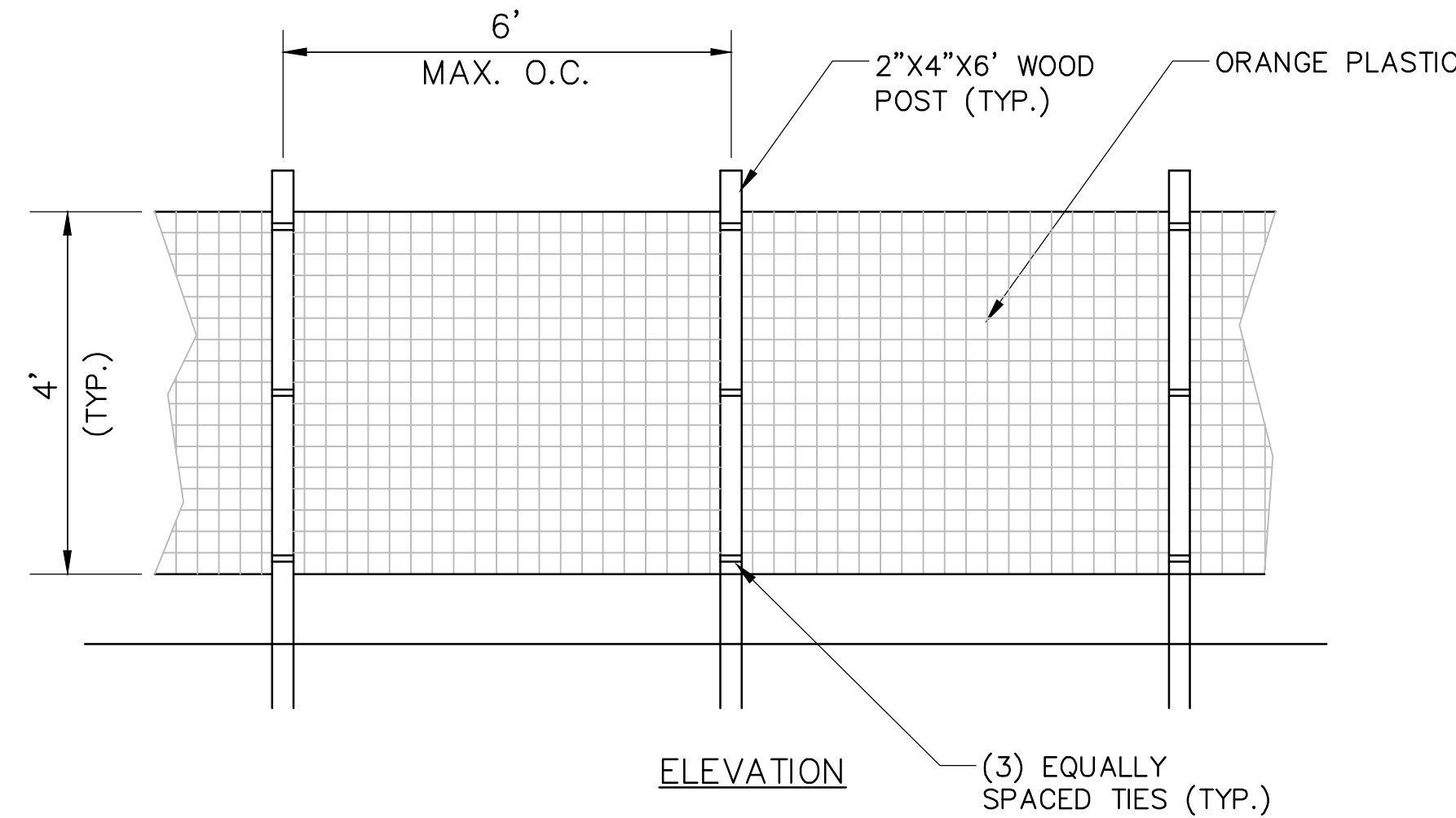
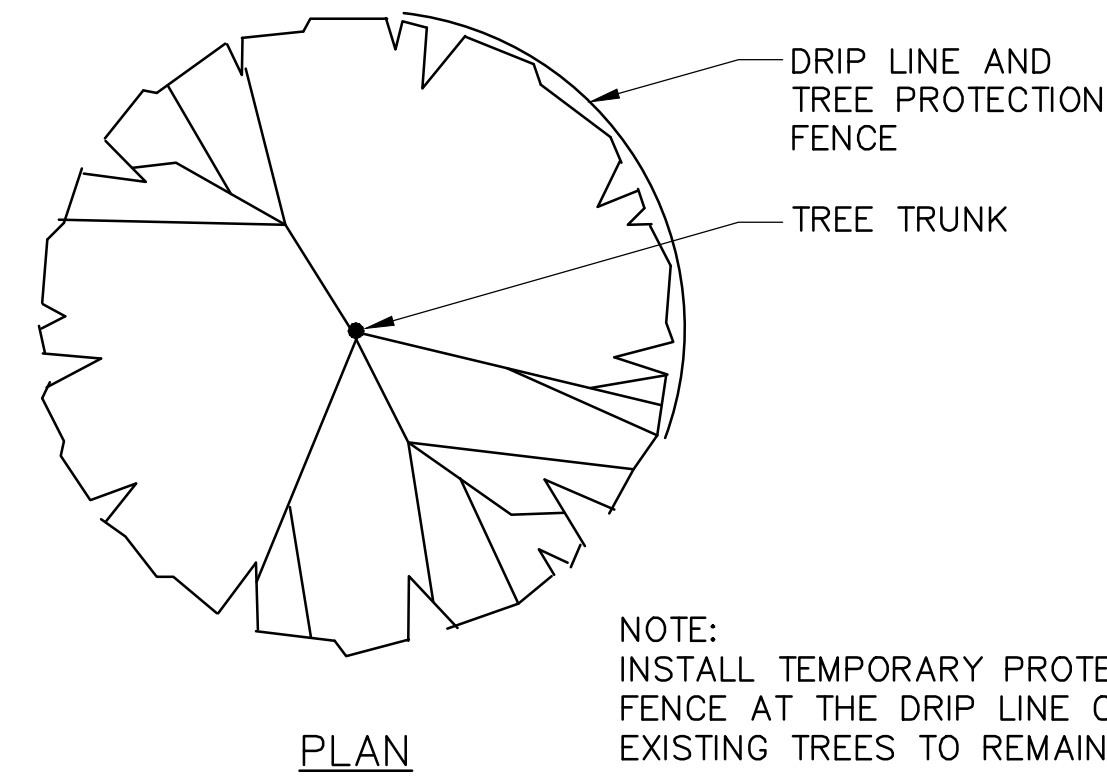
EROSION CONTROL BARRIER
NOT TO SCALE



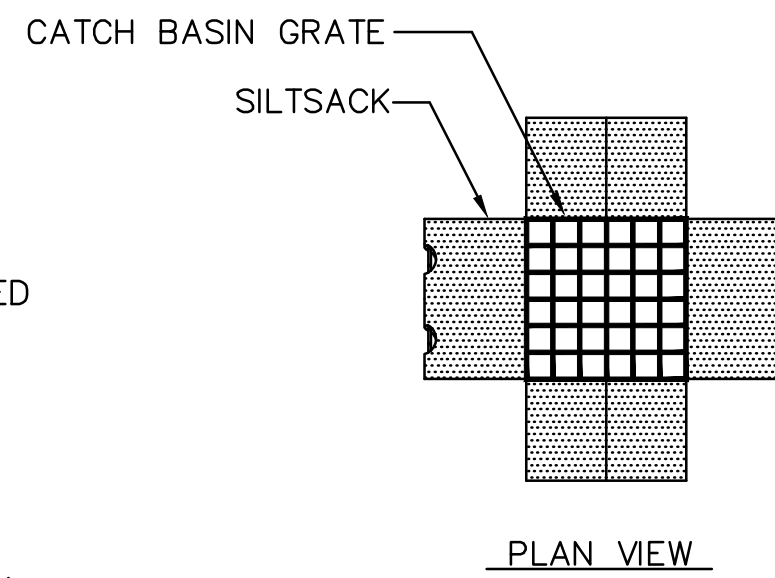
GRANITE RUBBLE BLOCK APRON
NOT TO SCALE



DRAINAGE/UTILITY TRENCH
NOT TO SCALE



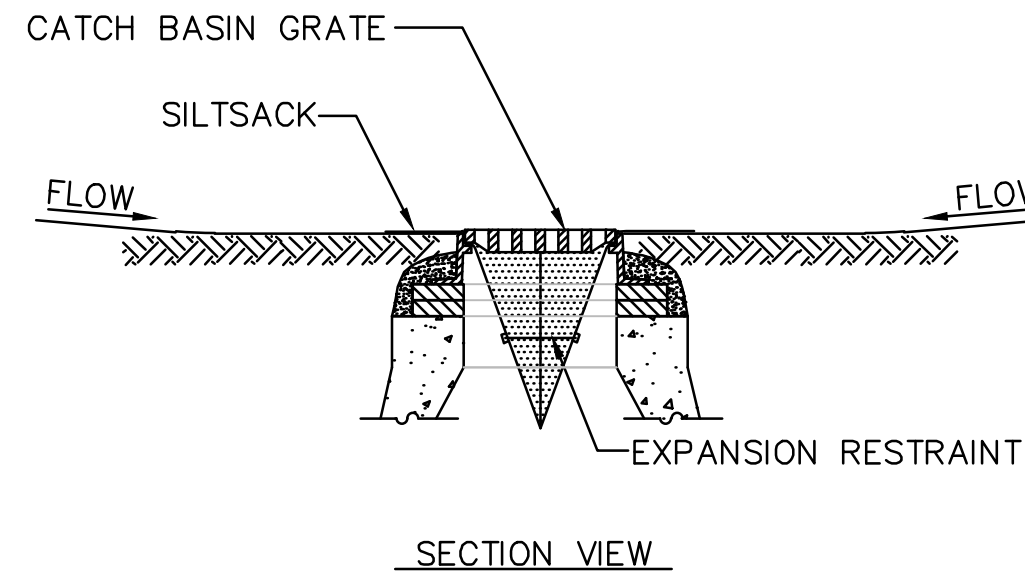
TREE PROTECTION FENCE
NOT TO SCALE



NOTE:

1. INSTALL SILTSACK IN ALL CATCH BASINS WITHIN THE LIMITS OF WORK AND AS DIRECTED BY THE ENGINEER PRIOR TO COMMENCEMENT OF WORK.
2. GRATE TO BE PLACED OVER SILTSACK.
3. SILTSACK SHALL BE INSPECTED AT THE END OF EACH WEEK AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED

SILT SACK
NOT TO SCALE



PROJECT TITLE

Redbrook Mixed Use
Development

Plymouth,
Massachusetts

PREPARED FOR

ADM Development
Services, LLC

Wareham,
Massachusetts

VA Vanasse &
Associates inc
Transportation Engineers & Planners

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TEL: (978) 474-8800
www.rdva.com

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SCALE	N.T.S
STAMP	

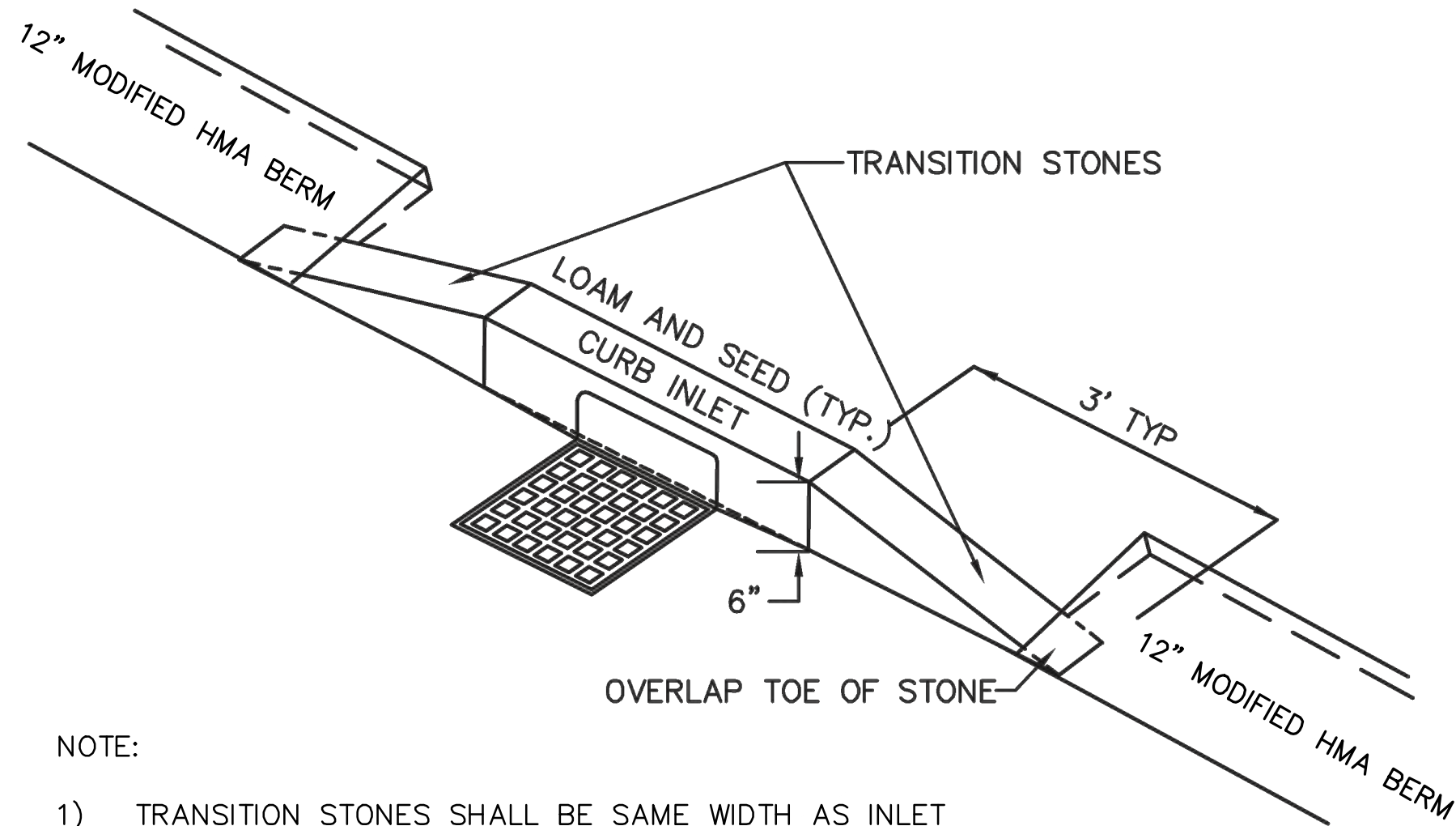
REVISIONS		
NO.	DESCRIPTION	DATE
1.	UPDATED UPL LOCATIONS	2/25/25

DRAWING TITLE

Construction Details

SHEET 17 OF 33	DRAWING NUMBER
JOB NO. 5452	17
CAD 5452DS	

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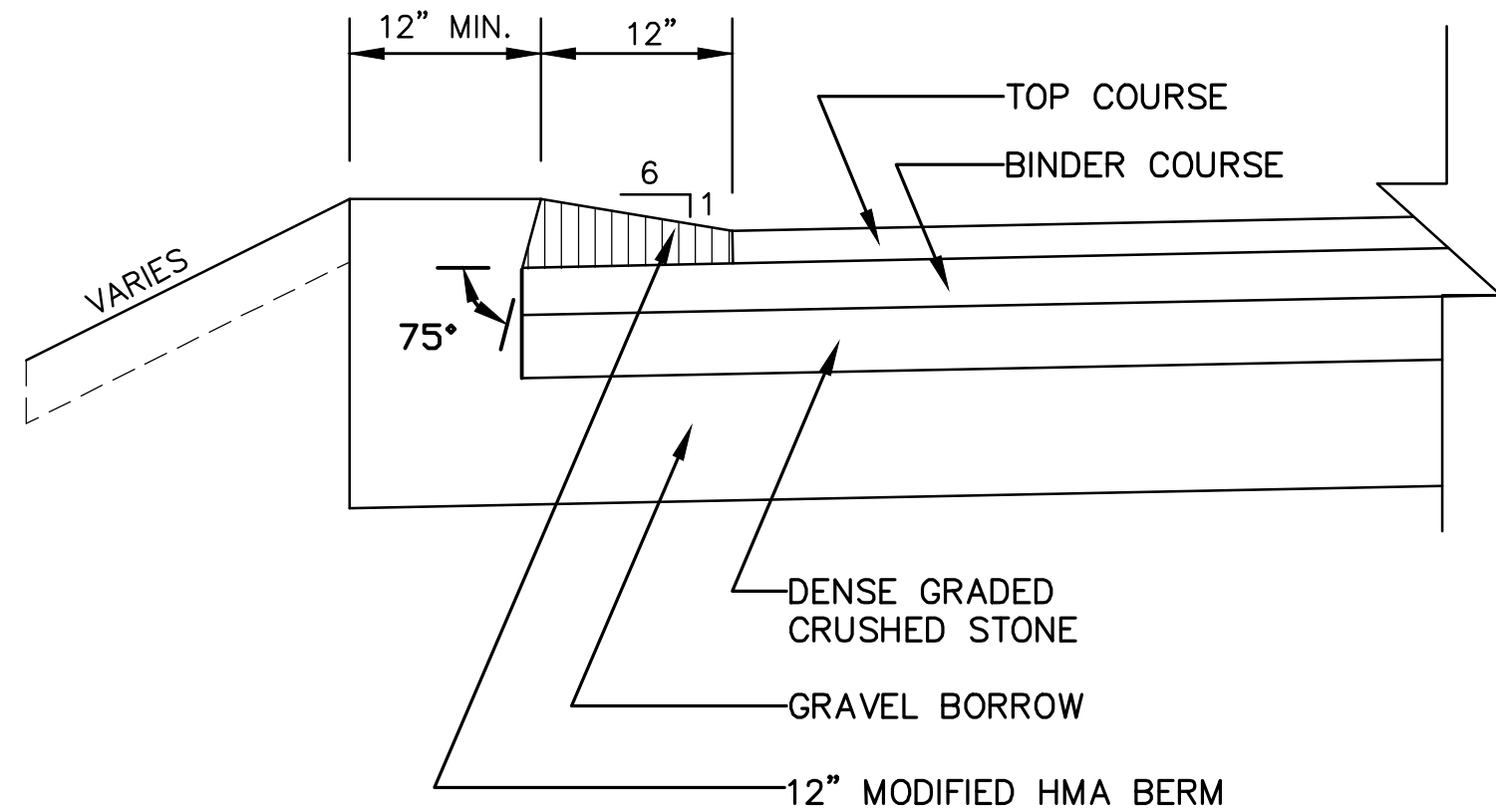


NOTE:

- 1) TRANSITION STONES SHALL BE SAME WIDTH AS INLET STONE, THREE FEET (3') IN LENGTH, AND SHALL MATCH 6" INLET STONE REVEAL AND TRANSITION TO 0" REVEAL AT END OF STONE. MODIFIED HMA BERM SHALL BE RUN UP TO AND THEN OVER A PORTION OF THE TRANSITION STONE, THEN MATCHING THE BERM INTO THE FINISHED ROADWAY GRADE.
- 2) LOAM AND SEED SHALL BE LEVEL FOR THE FIRST FOOT BEHIND THE INLET STONE.
- 3) SEE 12" MODIFIED HMA BERM DETAILS

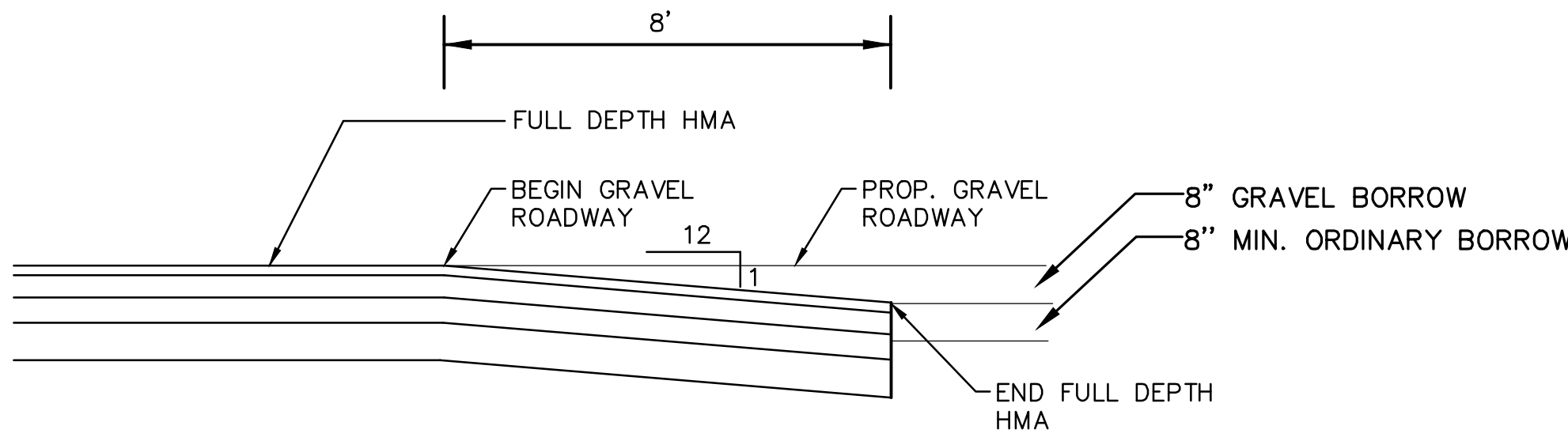
CURB INLET STONE AND VERTICAL GRANITE CURB TO HMA BERM TRANSITION

NOT TO SCALE



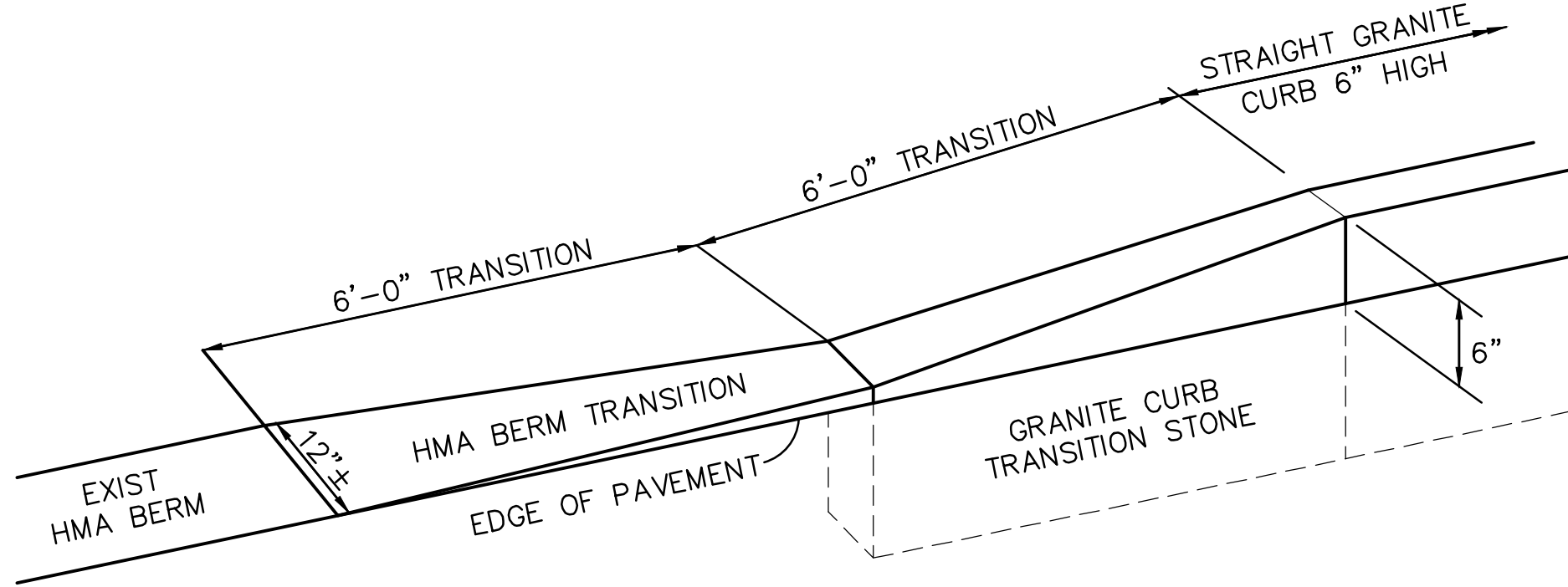
12" MODIFIED HMA BERM

NOT TO SCALE



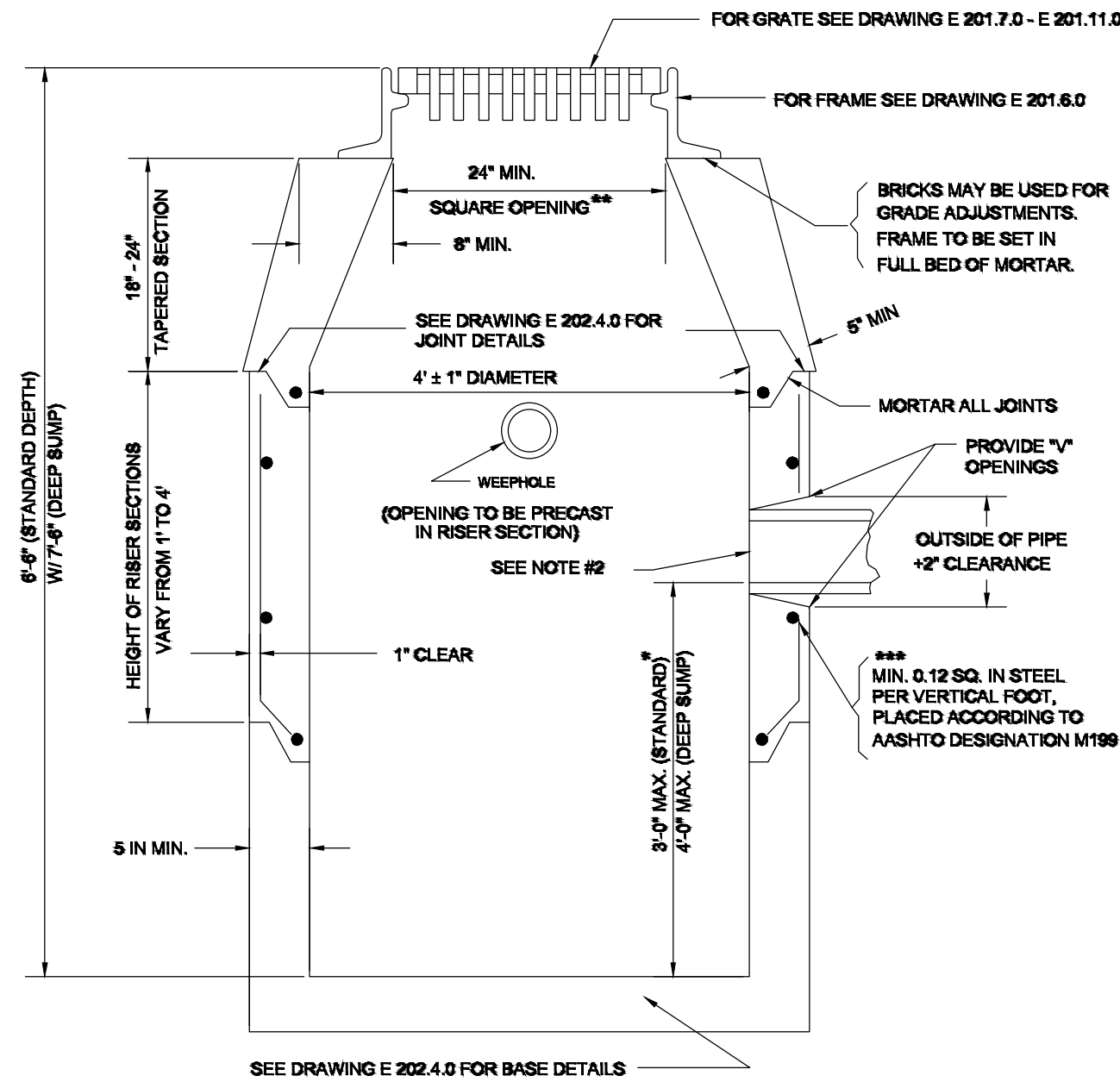
PAVEMENT-GRAVEL TRANSITION

NOT TO SCALE



GRANITE CURB TO HMA BERM TRANSITION DETAIL

NOT TO SCALE

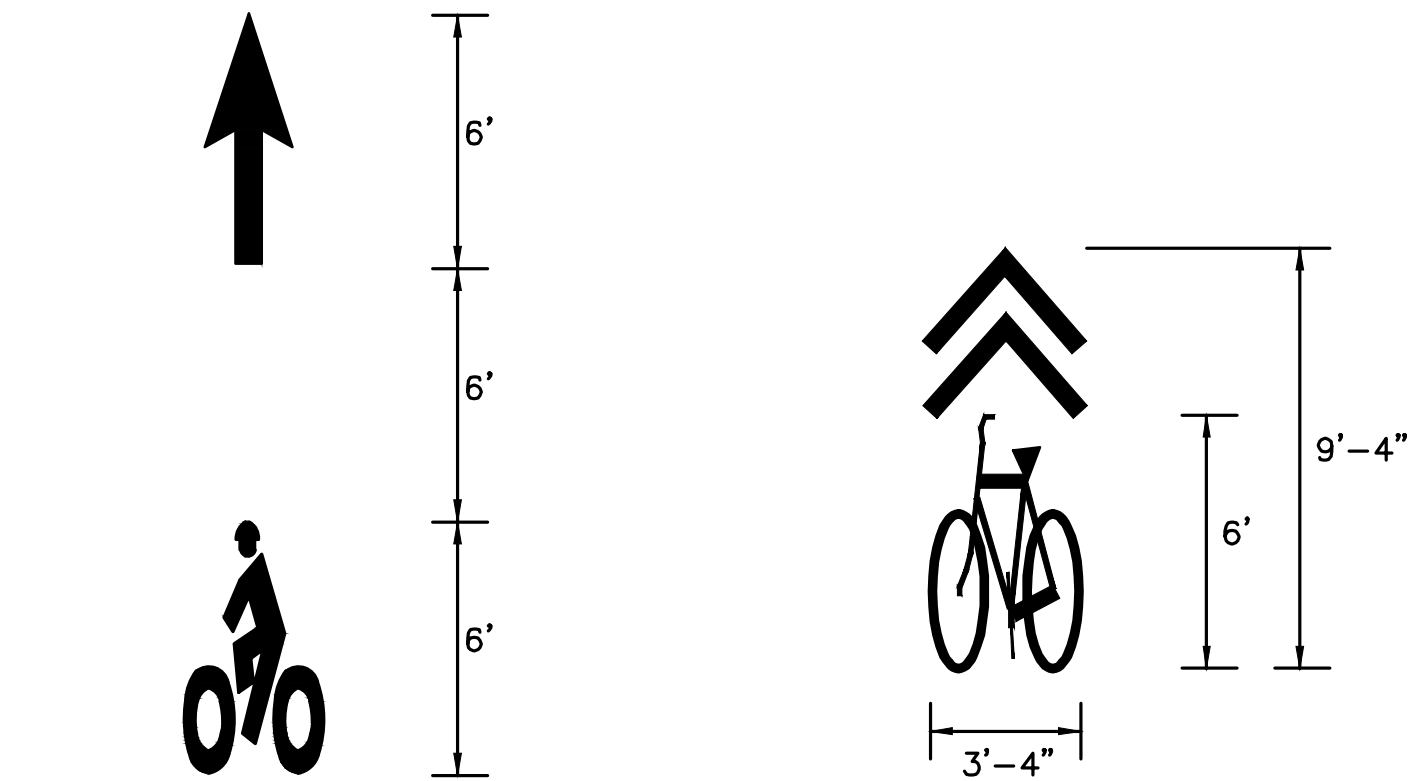


NOTES:

1. DETAILS NOT INDICATED ABOVE ARE TO BE SIMILAR TO THOSE SHOWN ON E 201.3.0
2. FACE OF PIPE FLUSH OR NOT TO PROJECT MORE THAN 4" FROM FACE OF WALL ALONG CENTERLINE OF PIPE.
3. FOR DESCRIPTION, MATERIALS AND CONSTRUCTION METHOD, SEE STANDARD SPECIFICATIONS.
4. ALL CONCRETE TO BE AIR ENTRAINED

PRECAST CONCRETE CATCH BASIN

NOT TO SCALE

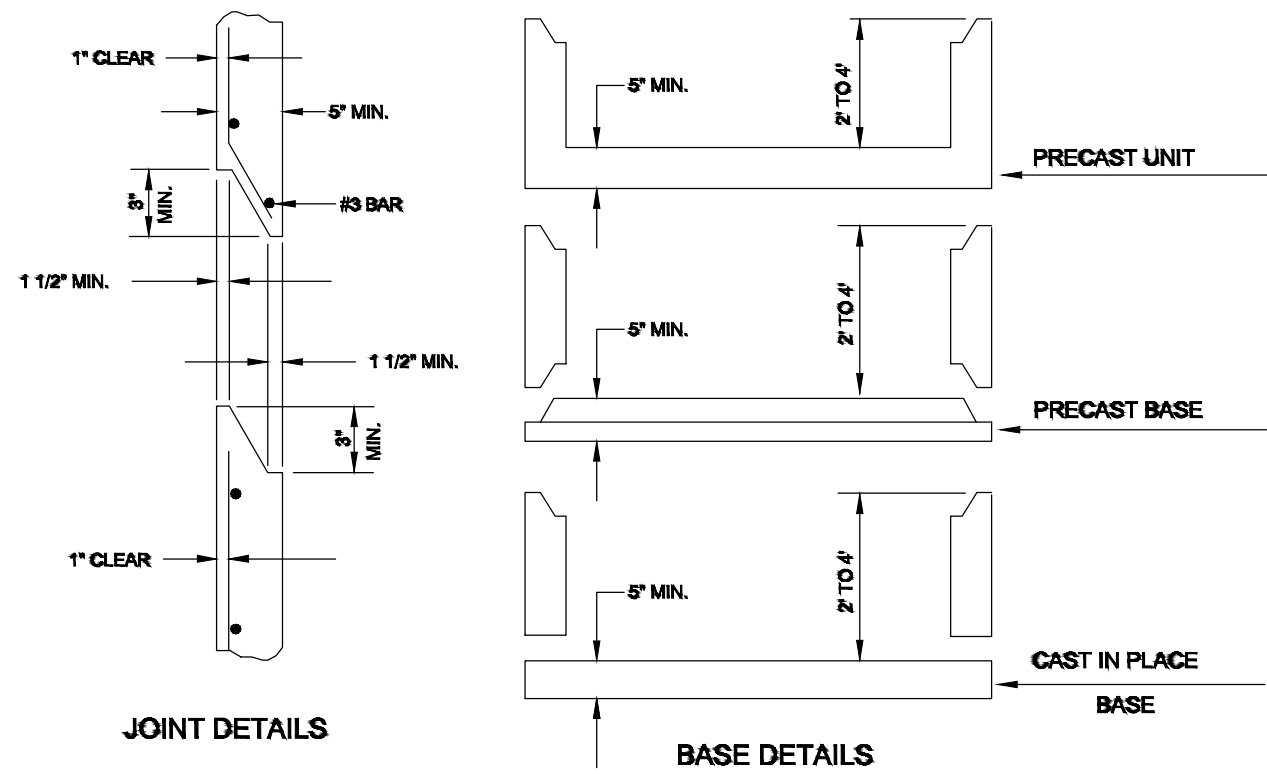
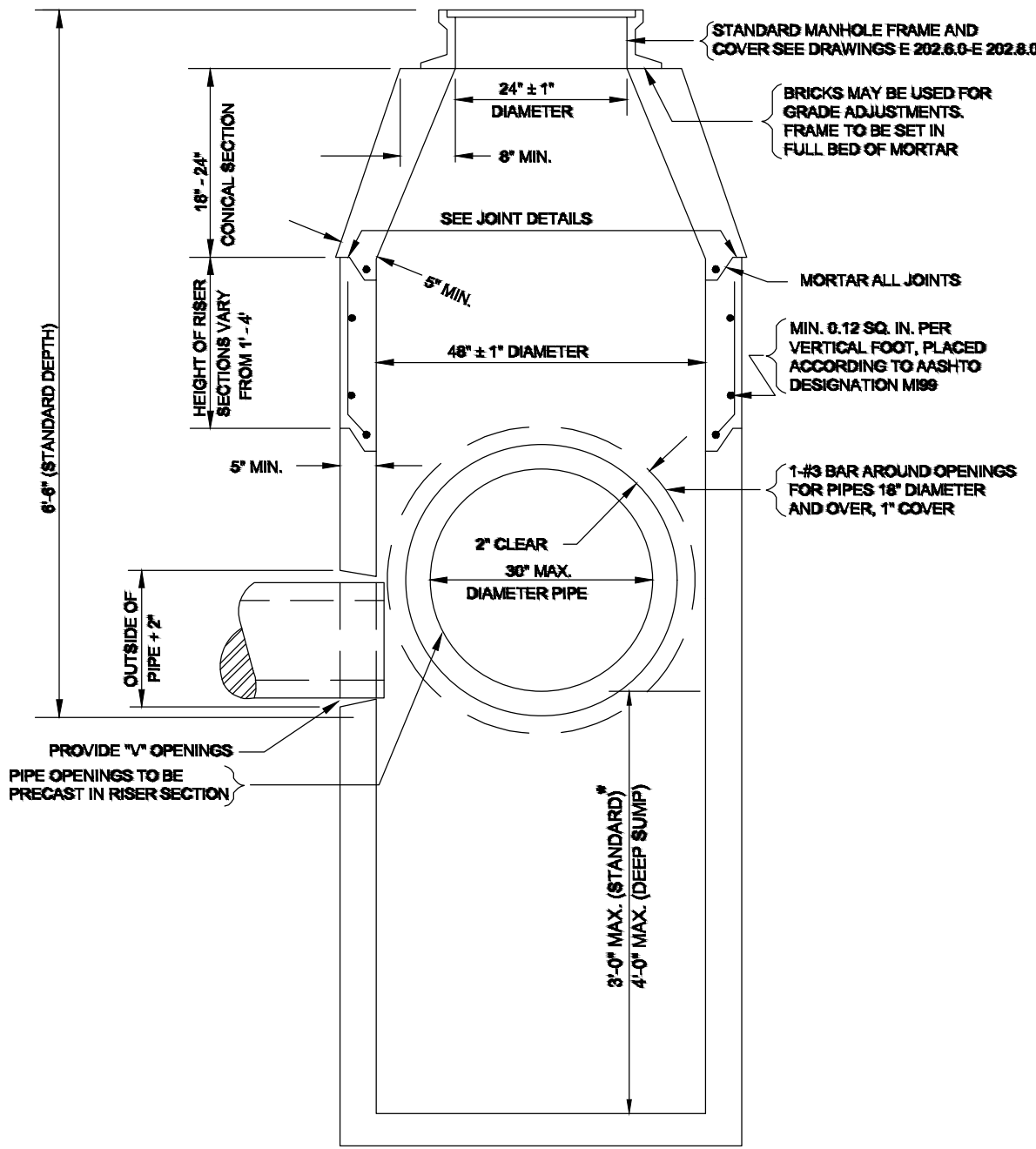


BIKE LANE MARKING DETAIL

NOT TO SCALE

SHARED LANE MARKING DETAIL

NOT TO SCALE



NOTE:

1. FOR DESCRIPTIONS, MATERIALS AND CONSTRUCTION METHODS, SEE LATEST STANDARD SPECIFICATIONS.

PRECAST CONCRETE MANHOLE WITH DEEP SUMP

NOT TO SCALE

PROJECT TITLE

Redbrook Mixed Use Development

Plymouth, Massachusetts

PREPARED FOR

ADM Development Services, LLC

Wareham, Massachusetts

Vanasse & Associates inc
Transportation Engineers & Planners

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STAMP	

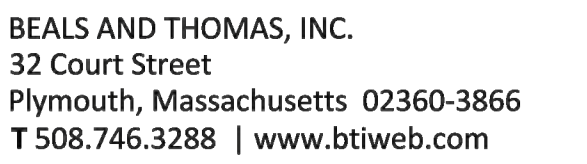
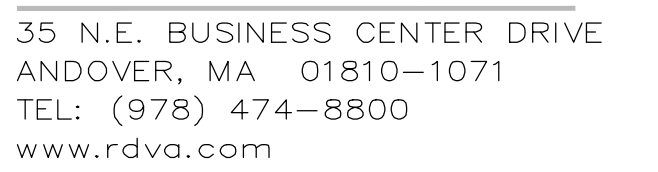
REVISIONS		
NO.	DESCRIPTION	DATE
1.	UPDATED UPL LOCATIONS	2/25/25

DRAWING TITLE

Construction Details

SHEET 18 OF 33	DRAWING NUMBER
JOB NO. 5452	18
CAD 5452DS	

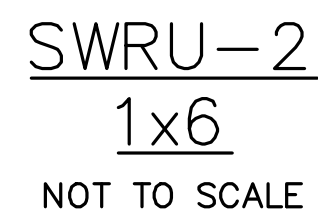
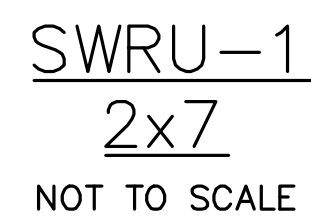
PREPARED FOR

Wareham,
Massachusetts

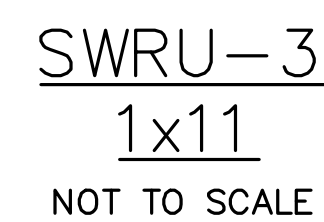
REVISIONS		
NO.	DESCRIPTION	DATE
1.	UPDATED UPL LOCATIONS	2/25/25

Construction Details

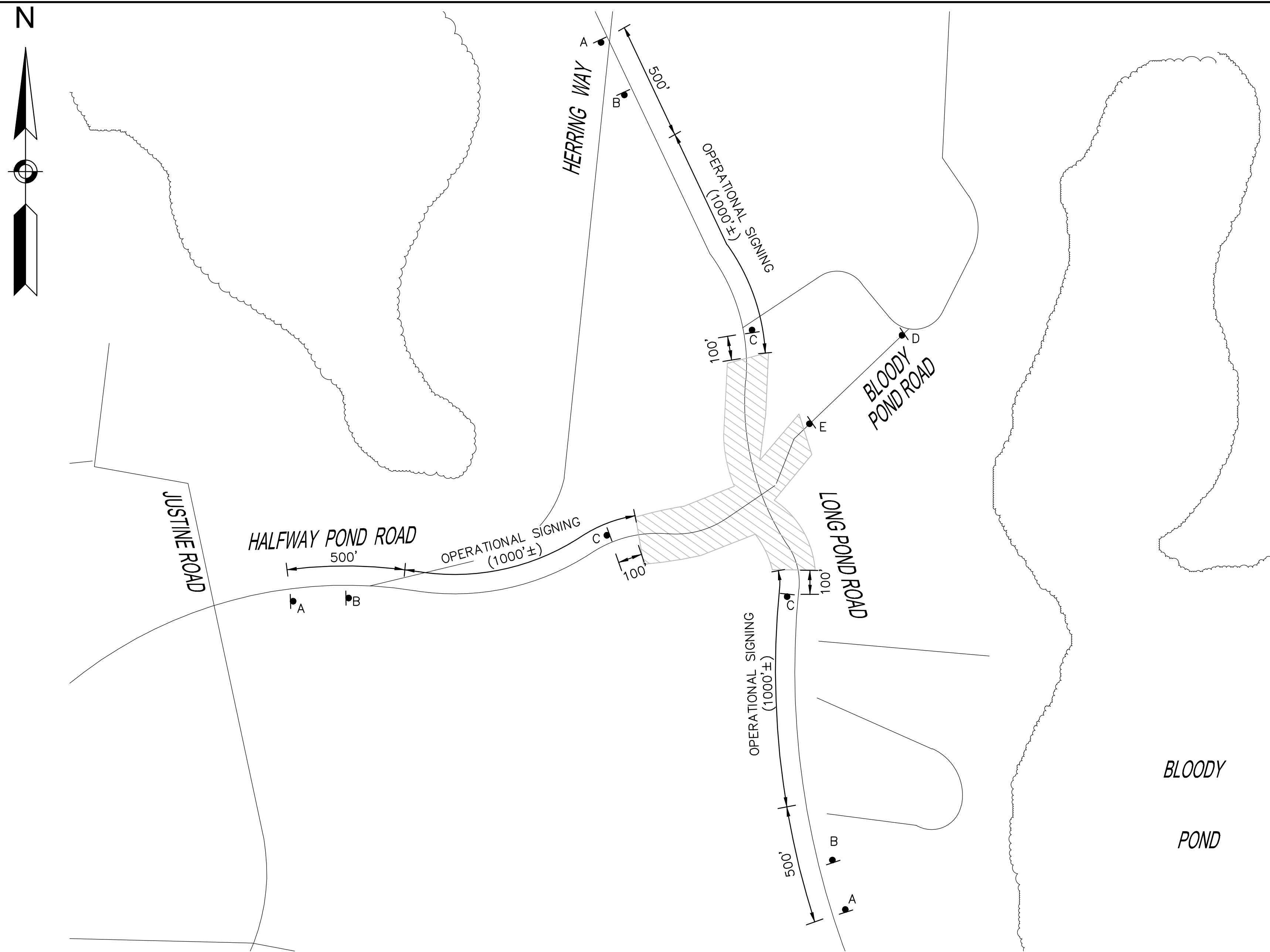
SHEET 19 OF 33	DRAWING NUMBER
JOB NO. 5452	19
CAD 5452DS	



NOT TO SCALE

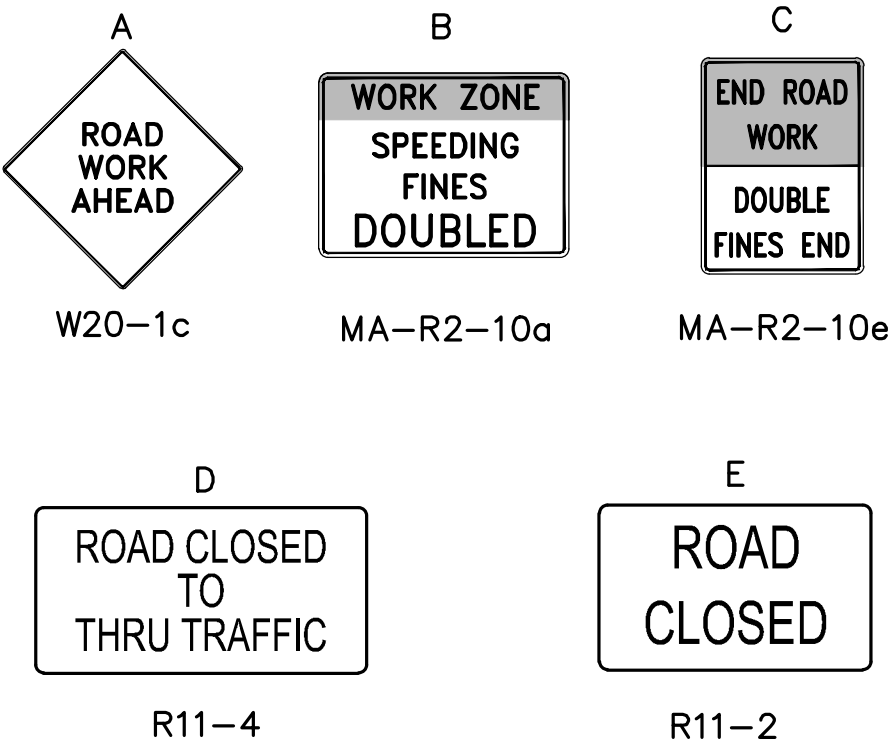


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ADVANCE SIGNING SCHEMATIC
NOT TO SCALE

SIGN LEGEND



TEMPORARY SIGN SUMMARY

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCH)			COLOR			POST TYPE & NUMBER PER SIGN	AREA PER SIGN (SF)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	RTE. MKR. ARROW	BACK- GROUND	LEGEND	BORDER		
MA-R2-10a	48"	36"	WORK ZONE SPEEDING FINES DOUBLED	MASSDOT STANDARD			FLUOR- ESCENT ORANGE/ WHITE	BLACK/ BLACK	BLACK/ BLACK	P-5 (2)	12.00
MA-R2-10e	36"	48"	END ROAD WORK DOUBLE FINES END	MASSDOT STANDARD			FLUOR- ESCENT ORANGE/ WHITE	BLACK/ BLACK	BLACK/ BLACK	P-5 (2)	12.00
W20-1c	36"	36"	ROAD WORK AHEAD	SEE FHWA STANDARD HIGHWAY SIGNS 2004 EDITION			FLUOR- ESCENT ORANGE	BLACK	BLACK	P-5 (1)	9.00
R11-2	48"	30"	ROAD CLOSED	SEE FHWA STANDARD HIGHWAY SIGNS 2004 EDITION			WHITE	BLACK	BLACK	MOUNT TO TYPE III BARRIER	10.00
R11-4	60"	30"	ROAD CLOSED TO THRU TRAFFIC	SEE FHWA STANDARD HIGHWAY SIGNS 2004 EDITION			WHITE	BLACK	BLACK	MOUNT TO TYPE III BARRIER	12.50

PROJECT TITLE

Redbrook Mixed Use
Development

Plymouth,
Massachusetts

PREPARED FOR

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Massachusetts

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Associates inc**
Transportation Engineers & Planners

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STAMP	

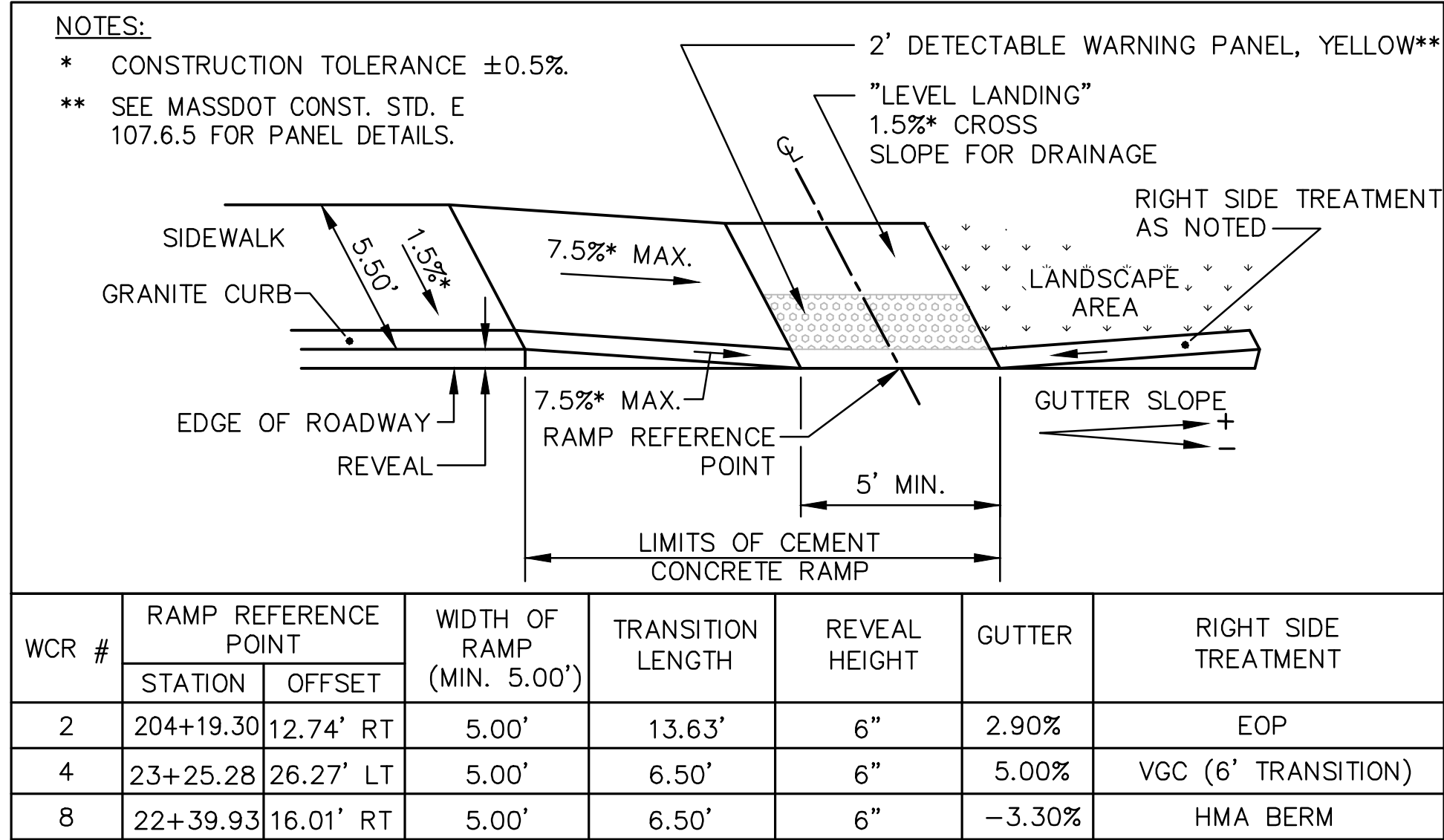
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NO.	DESCRIPTION	DATE
1.	UPDATED UPL LOCATIONS	2/25/25

DRAWING TITLE

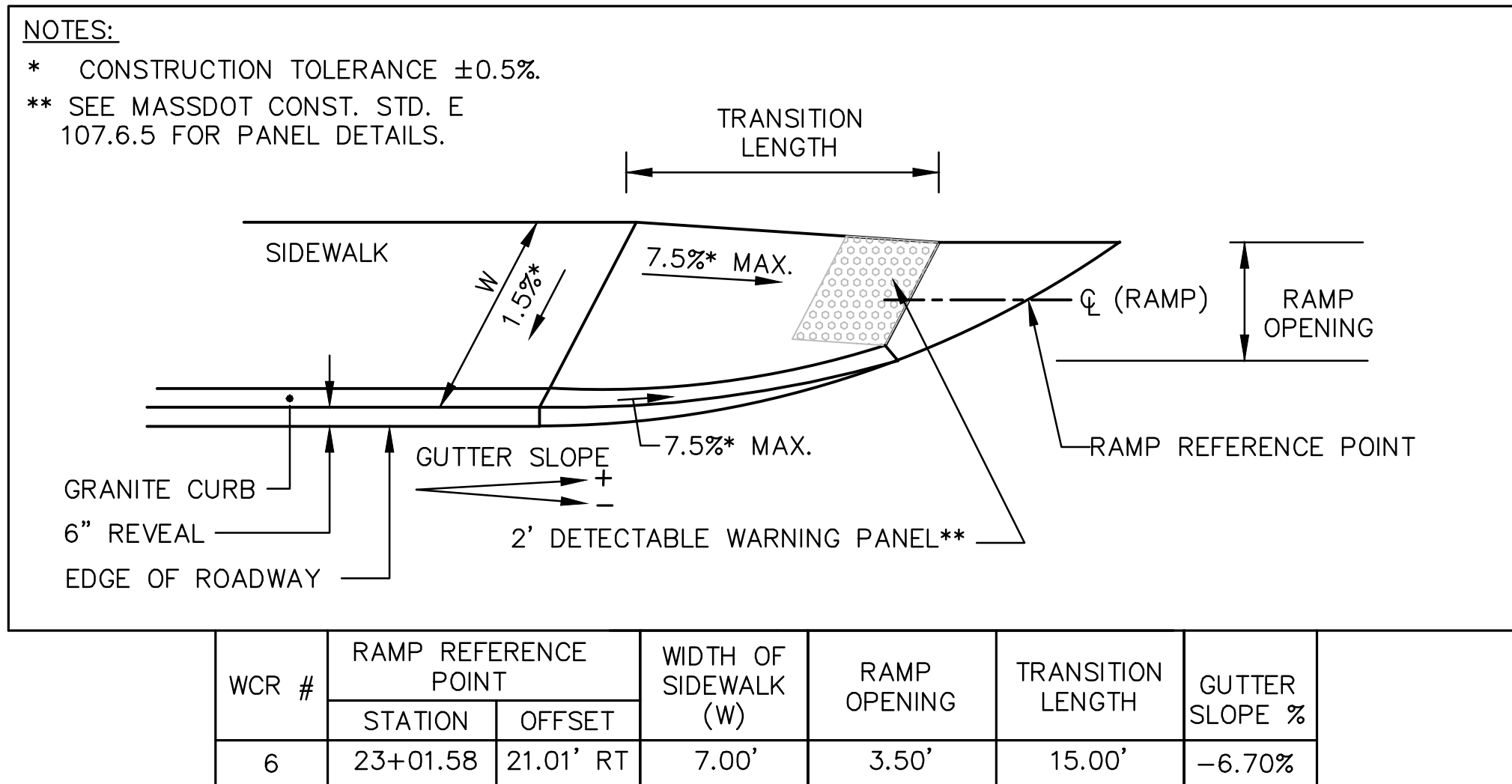
Temporary Traffic
Control Plans

SHEET 21 OF 33	DRAWING NUMBER
JOB NO. 5452	21
CAD 5452DS	

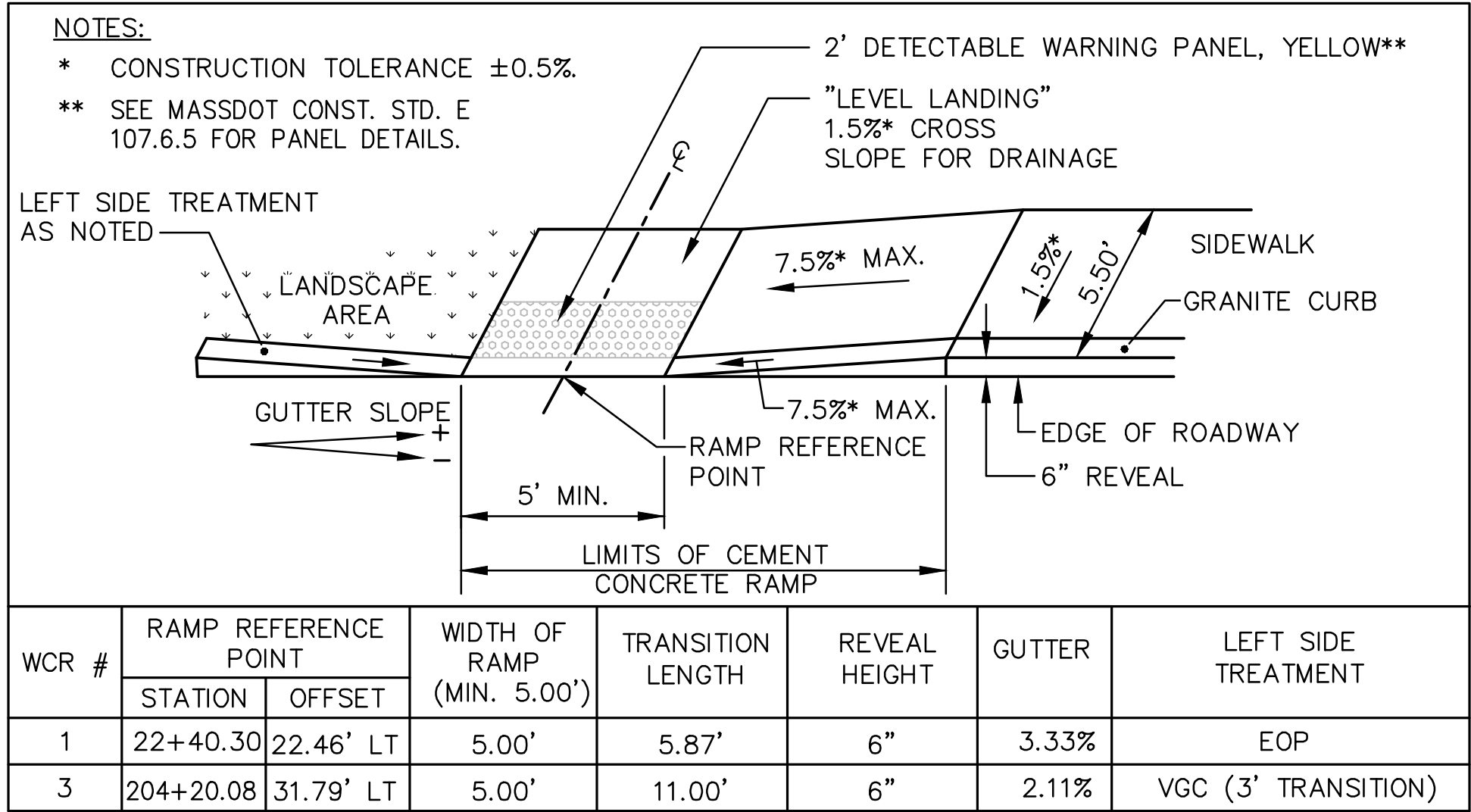
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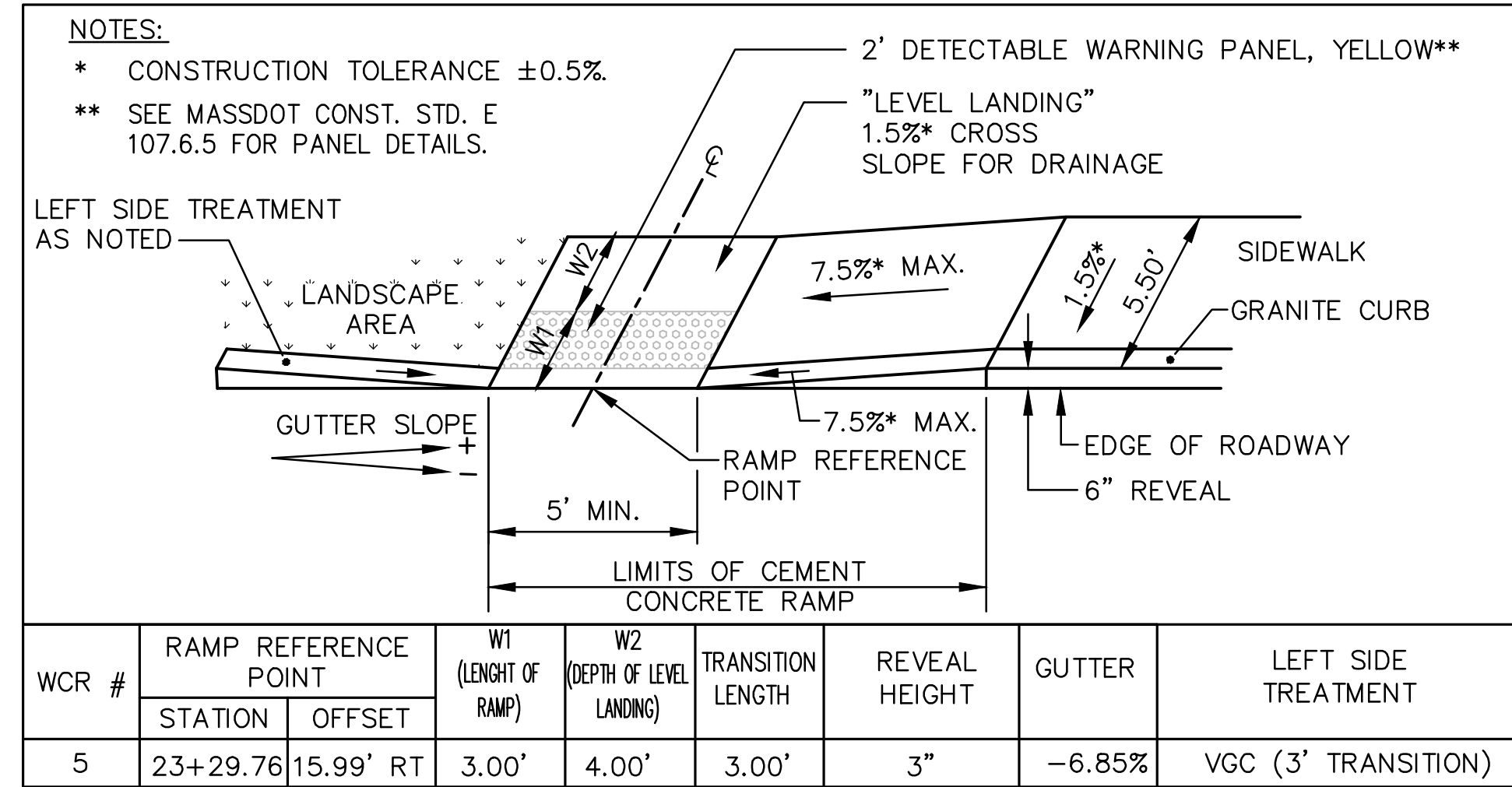
WHEELCHAIR RAMP AT BEGINNING OF SIDEWALK LEFT
NOT TO SCALE



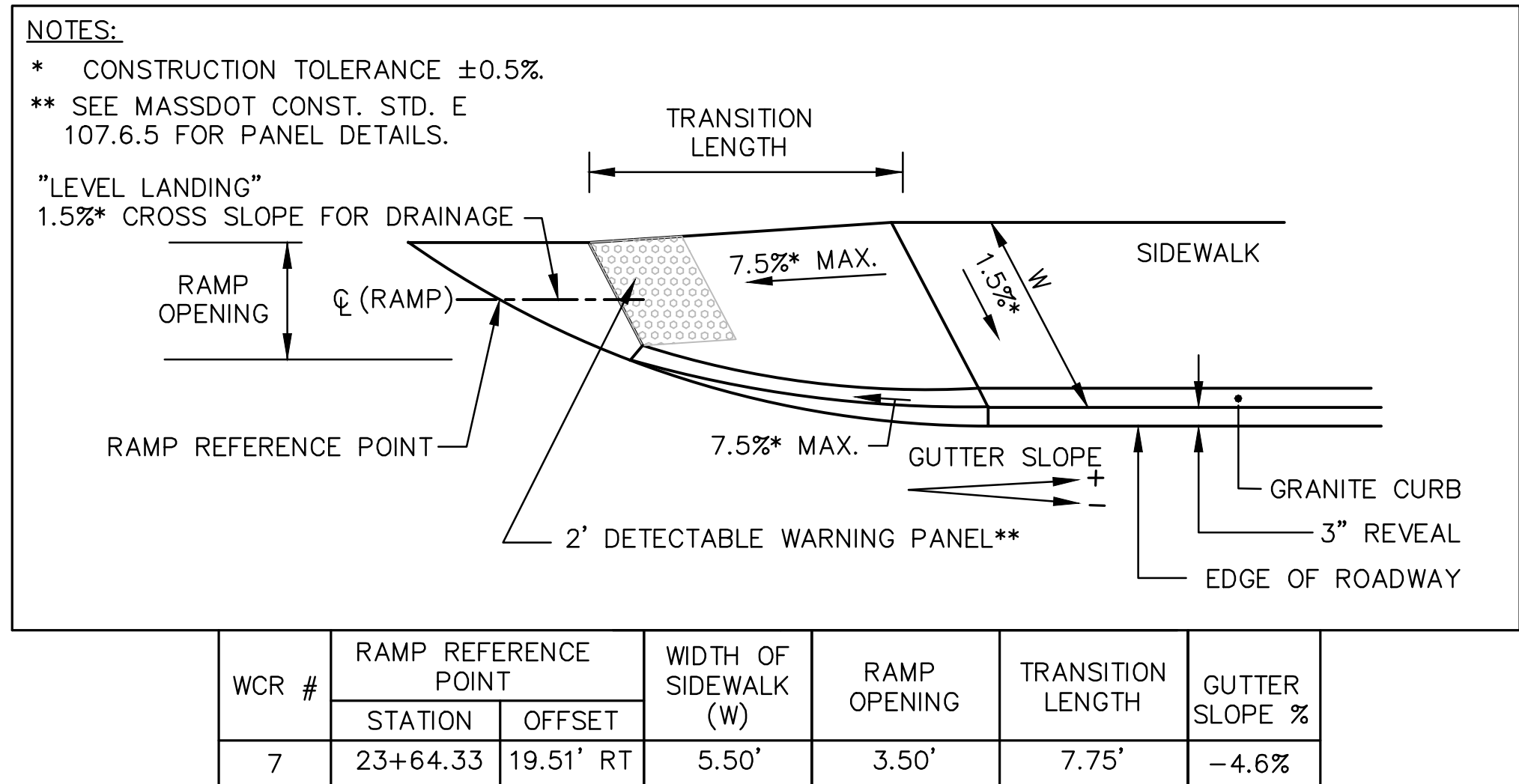
WHEELCHAIR RAMP FOR ONE CONTINUOUS DIRECTION OF TRAVEL
NOT TO SCALE



WHEELCHAIR RAMP AT BEGINNING OF SIDEWALK RIGHT
NOT TO SCALE



WHEELCHAIR RAMP AT BEGINNING OF SIDEWALK RIGHT
NOT TO SCALE



WHEELCHAIR RAMP FOR ONE CONTINUOUS DIRECTION OF TRAVEL
NOT TO SCALE

PROJECT TITLE

Redbrook Mixed Use Development

Plymouth, Massachusetts

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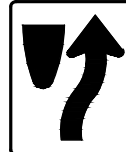
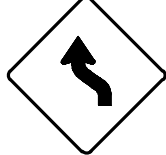


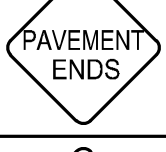

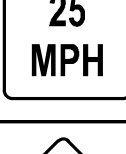
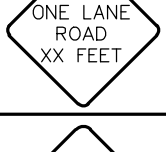
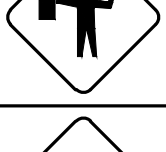
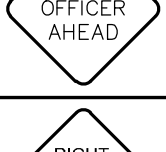
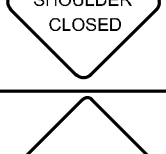

REVISIONS		
NO.	DESCRIPTION	DATE
1.	UPDATED UPL LOCATIONS	2/25/25

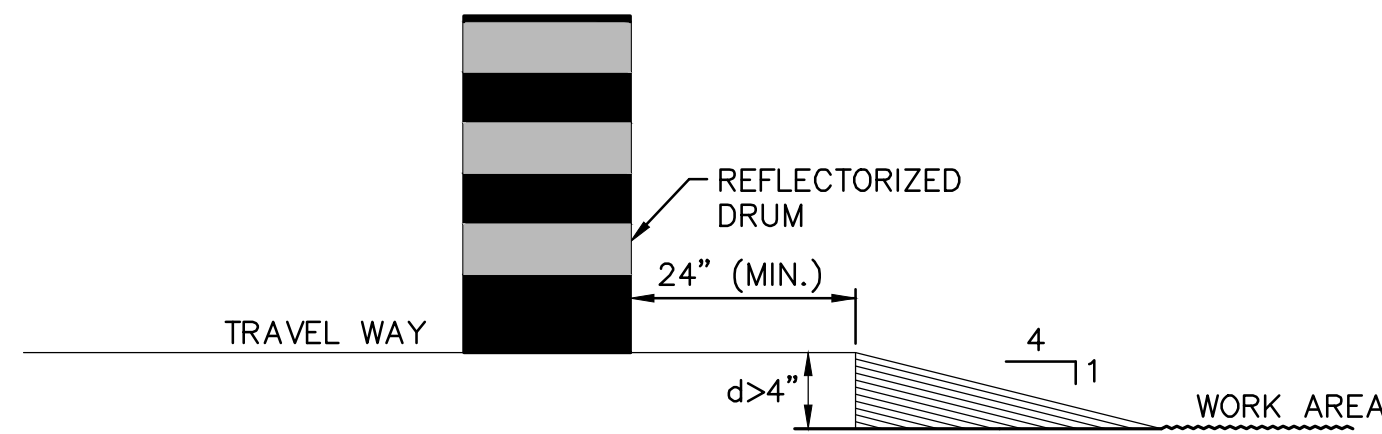
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Wheelchair Ramp Details

SHEET 20 OF 33	DRAWING NUMBER
JOB NO. 5452	20
CAD 5452DS	

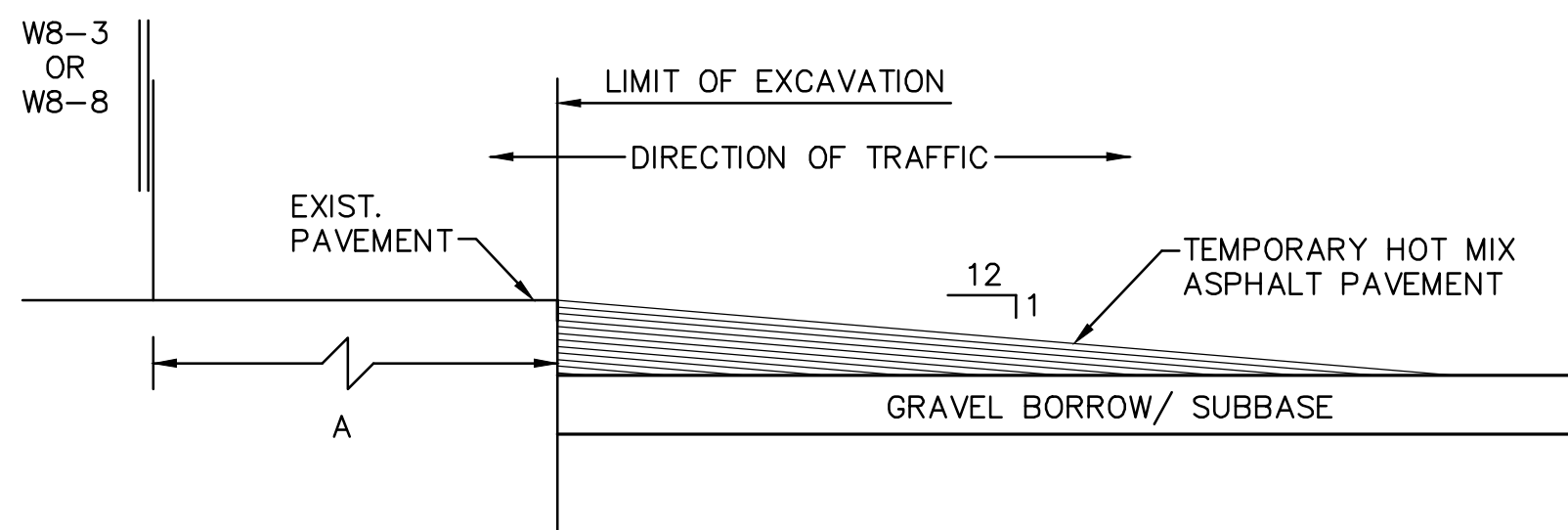
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TEMPORARY SIGN SUMMARY											
IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCH)			COLOR			POST TYPE & NUMBER PER SIGN	AREA PER SIGN
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	RTE. MKR. ARROW	BACK- GROUND	LEGEND	BORDER		
R4-7	24"	30"		SEE FHWA STANDARD HIGHWAY SIGNS 2004 EDITION			WHITE	BLACK	BLACK	MOUNT ON COLLAPSIBLE SUPPORT	5.00
W1-4L	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK	P-5 (1)	9.00
W1-4R	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK	P-5 (1)	9.00
W5-1	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK	P-5 (1)	9.00
W8-3	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK	P-5 (1)	9.00
W8-8	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK	P-5 (1)	9.00
W13-1P	24"	24"					FLUOR- ESCENT ORANGE	BLACK	BLACK	MOUNT BELOW OTHER SIGNS	4.00
W20-4	36"	36"		SEE FHWA STANDARD HIGHWAY SIGNS 2012 SUPPLEMENT			FLUOR- ESCENT ORANGE	BLACK	BLACK	P-5 (1)	9.00
W20-7	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK	P-5 (1)	9.00
W20-7b	36"	36"		MASSDOT STANDARD			FLUOR- ESCENT ORANGE	BLACK	BLACK	P-5 (1)	9.00
W21-5a	36"	36"		SEE FHWA STANDARD HIGHWAY SIGNS 2004 EDITION			FLUOR- ESCENT ORANGE	BLACK	BLACK	P-5 (1)	9.00
W30-8R	36"	36"		MASSDOT STANDARD			FLUOR- ESCENT ORANGE	BLACK	BLACK	P-5 (1)	9.00



LATERAL DROP-OFF DETAIL

NOT TO SCALE



LONGITUDINAL DROP-OFF DETAIL

NOT TO SCALE

TRAFFIC MANAGEMENT NOTES

- ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THE PLANS.
- ALL SIGN LEGENDS, BORDERS AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
- ALL CONSTRUCTION WARNING SIGNS SHALL BE FLUORESCENT ORANGE IN COLOR. UNLESS OTHERWISE NOTED.
- TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- TEMPORARY CONSTRUCTION SIGNING, BARRICADES AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, AND CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR THE AASHTO 2009 "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
- CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS
- THE FIRST FIVE PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE A LIGHTS.
- THE ADVISORY SPEED, IF REQUIRED, SHALL BE DETERMINED BY THE RESIDENT ENGINEER AND APPROVED BY THE GOVERNING JURISDICTION PRIOR TO POSTING.
- DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
- MINIMUM LANE WIDTH IS TO BE 10 FEET. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
- ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
- ADA/AAB COMPLIANT PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES.

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

Type of Taper	Taper Length (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FT MIN, 100 FT MAX
DOWNSTREAM TAPER	50 FT MIN, 100 FT MAX PER LANE

FORMULAS FOR DETERMINING TAPER LENGTHS

Speed Limit (S)	Taper Length (L) Feet
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR MORE	$L = WS$

WHERE: L = TAPER LENGTH IN FEET
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE
SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED
OPERATING SPEED IN MPH

SUGGESTED WORK ZONE WARNING SIGN SPACING

Road Type	Distance Between Signs**		
	A	B	C
URBAN (LOW SPEED)*	100	100	100
URBAN (HIGH SPEED)*	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1,000	1,500	2,640

- * SPEED CATEGORY TO BE DETERMINED BY HIGHWAY AGENCY. DISTANCES ARE SHOWN IN FEET.
- ** THE COLUMN HEADINGS A, B, AND C ARE THE DIMENSIONS SHOWN IN THE DETAIL/TYPICAL SETUP FIGURES. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE "THIRD" SIGN IS THE FIRST ONE TYPICALLY ENCOUNTERED BY A DRIVER APPROACHING A TEMPORARY TRAFFIC CONTROL (TTC) ZONE.)

THE "THIRD" SIGN ABOVE IS TYPICALLY REFERRED TO AS AN "ADVANCED WARNING" SIGN ON THE TTC SETUPS. THESE ADVANCED WARNING SIGNS ARE LOCATED PRIOR TO THE PROJECT LIMITS ON ALL APPROACHES (i.e. THE W20-1 SERIES (ROAD WORK XX FT) SIGNS), AND USUALLY REMAIN FOR THE DURATION OF THE PROJECT. ADDITIONAL SIGNS (i.e. "RIGHT LANE CLOSED 1 MILE" AND "LEFT LANE CLOSED 1 MILE") HAVE BEEN SHOWN IN SOME FIGURES AS EXAMPLES OF REINFORCEMENT SIGN PLACEMENT BUT ARE USED IN RARE OCCASIONS.

THE FIRST AND SECOND WARNING SIGNS ABOVE ARE REFERENCED TO AS THE OPERATIONAL (DAY-TO-DAY) WORK ZONE SIGNS AND MAY BE MOVED DEPENDING ON WHERE THE SPECIFIC ROADWAY WORK FOR THAT DAY IS LOCATED.

MA-R2-10a SIGNS SHALL BE PLACED BETWEEN THE SECOND AND THIRD SIGNS AS DESCRIBED ABOVE.

MA-R2-10a, MA-R2-10e, AND W20-1 SERIES SIGNS ARE TO BE INCLUDED ON ALL DETAILS/TYPICAL SETUPS.

LEGEND:

- REFLECTORIZED PLASTIC DRUM
- P POLICE DETAIL
- TYPE III BARRICADE
- FLASHING ARROW PANEL
- FLASHING ARROW PANEL
- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENUATOR
- MEDIAN BARRIER
- MEDIAN BARRIER WITH WARNING LIGHTS
- WORK VEHICLE
- TRUCK MOUNTED ATTENUATOR
- TRAFFIC OR PEDESTRIAN SIGNAL
- SIGN

PROJECT TITLE

Redbrook Mixed Use
Development

Plymouth,
Massachusetts

PREPARED FOR

ADM Development
Services, LLC

Wareham,
Massachusetts

**Vanasse &
Associates inc**
Transportation Engineers & Planners

35 N.E. BUSINESS CENTER DRIVE
ANDOVER, MA 01810-1071
TEL: (978) 474-8800
www.rdvva.com

DESIGNED BY	TWO
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SCALE	N.T.S
STAMP	

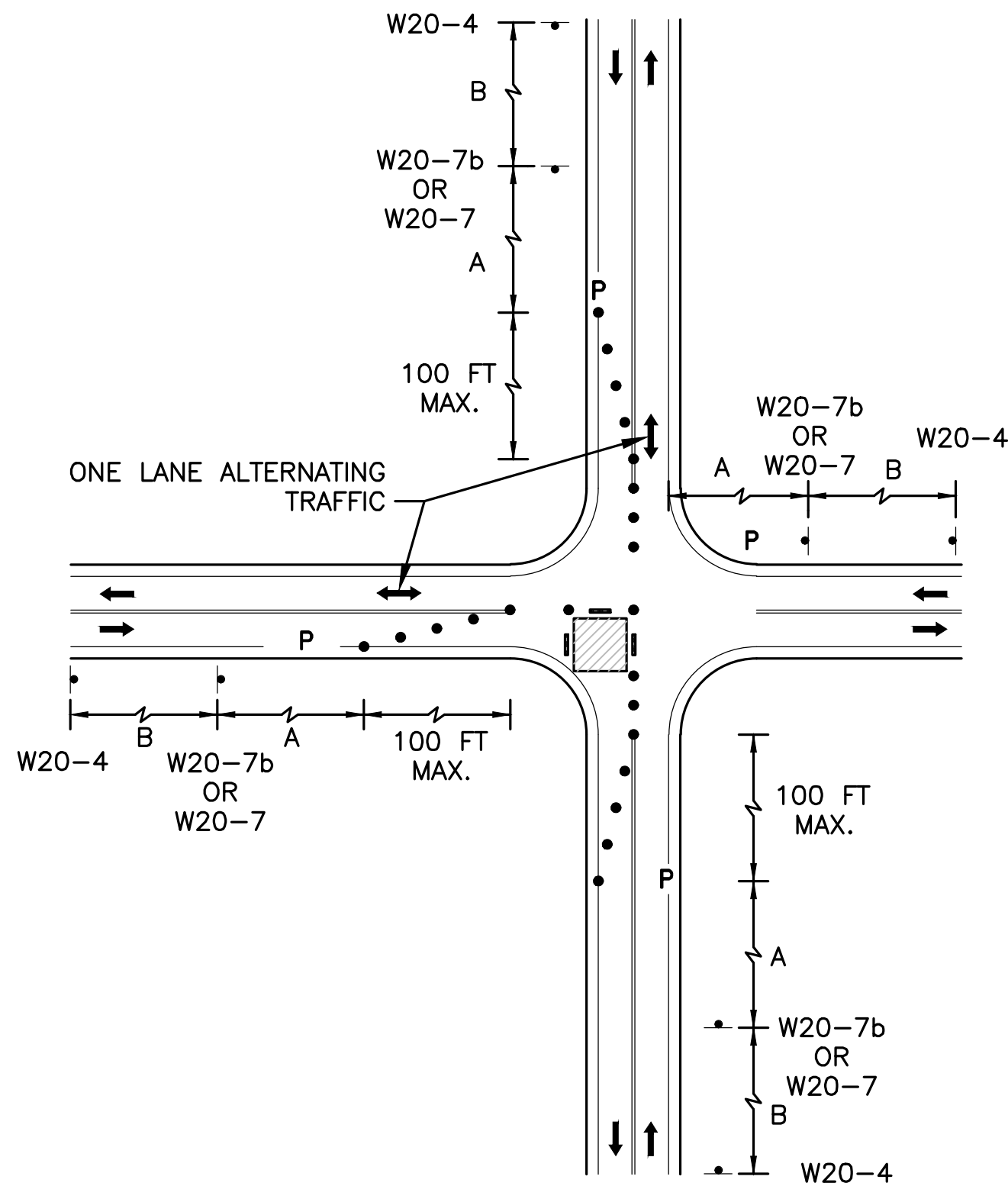
REVISIONS		
NO.	DESCRIPTION	DATE
1.	UPDATED UPL LOCATIONS	2/25/25

DRAWING TITLE

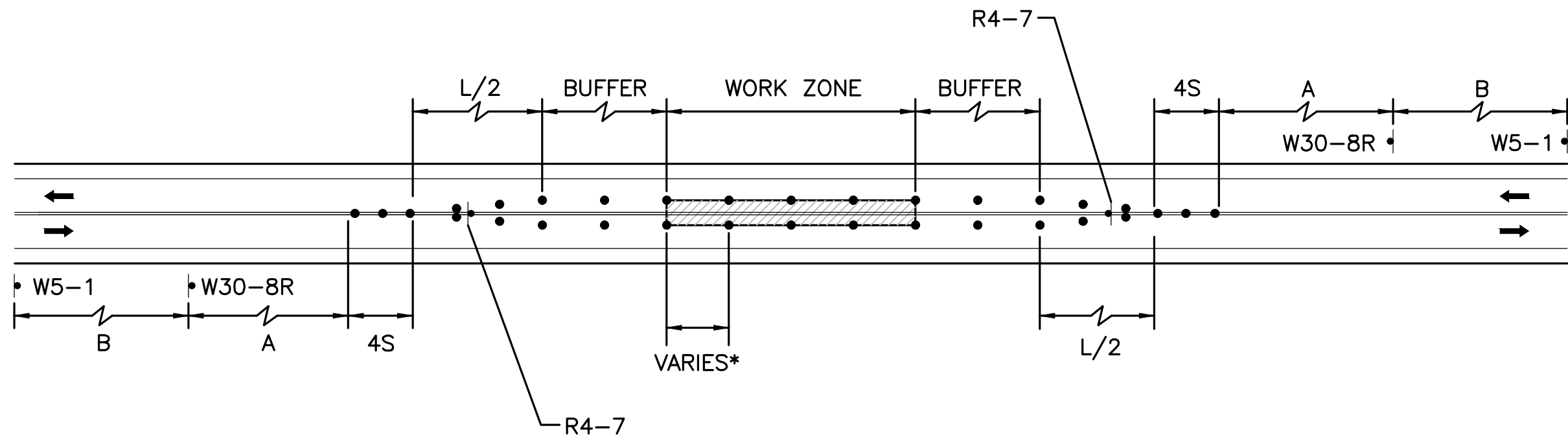
Temporary Traffic
Control Plans

SHEET 22 OF 33	DRAWING NUMBER
JOB NO. 5452	22
CAD 5452DS	

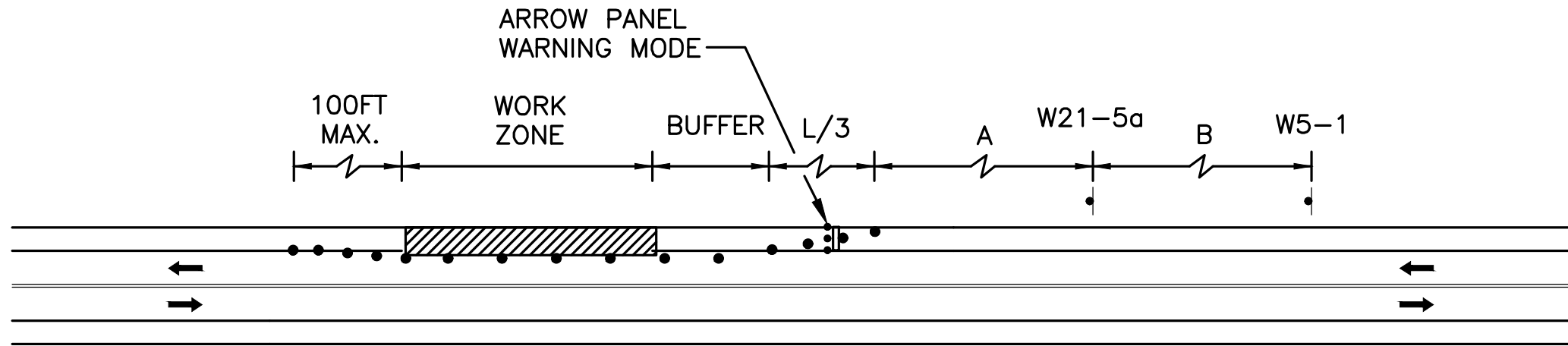
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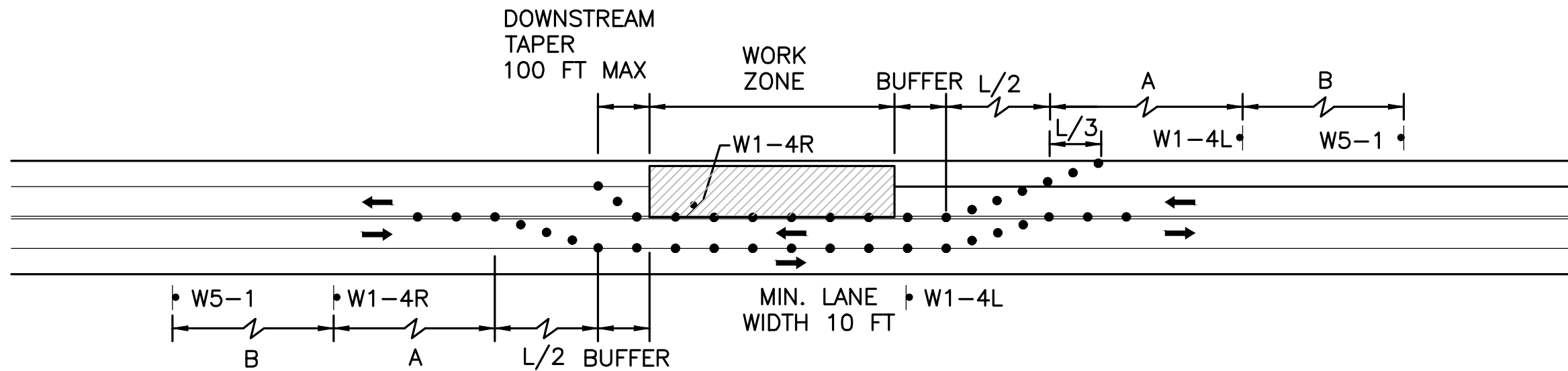
**SINGLE LANE APPROACH
ONE QUADRANT CLOSURE**
NOT TO SCALE



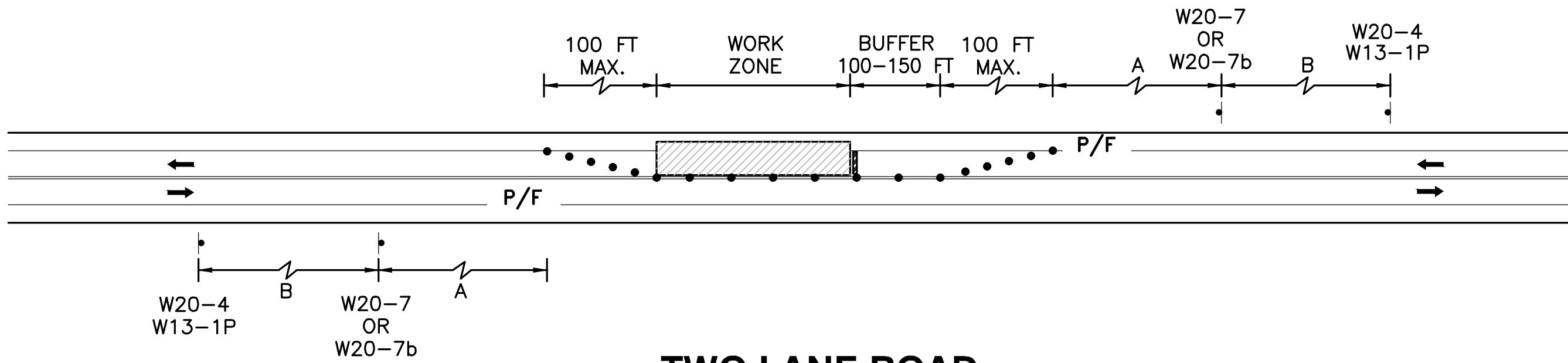
**TWO LANE ROAD CENTER
OF ROAD CLOSURE**
NOT TO SCALE



TWO LANE ROAD SHOULDER CLOSURE
NOT TO SCALE



**TWO LANE ROAD SHOULDER
AND TRAVEL LANE CLOSED**
NOT TO SCALE



**TWO LANE ROAD
ONE LANE ALTERNATING TRAFFIC WITH POLICE DETAIL**
NOT TO SCALE

PROJECT TITLE

Redbrook Mixed Use
Development

Plymouth,
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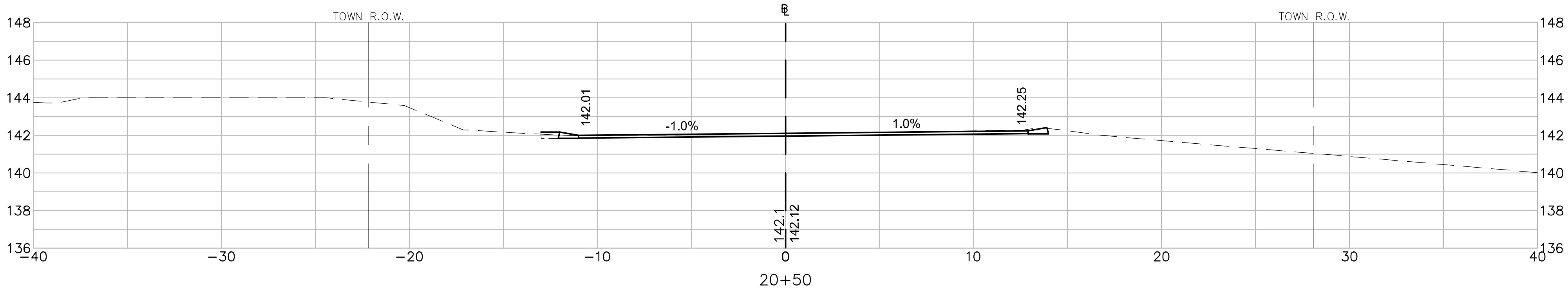
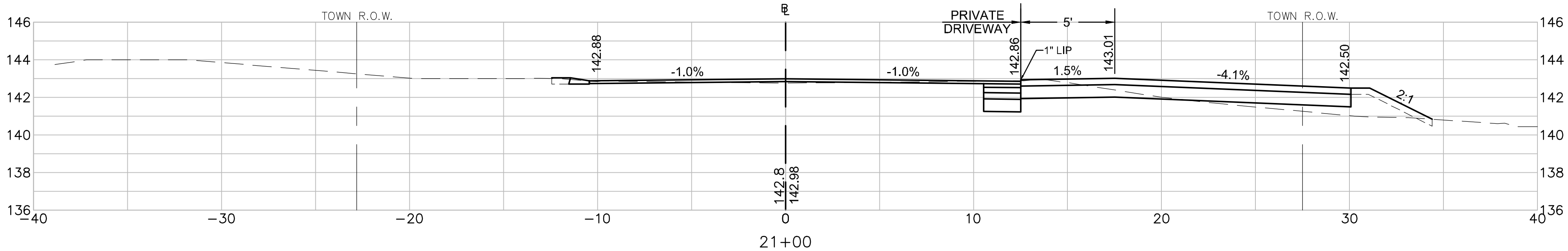
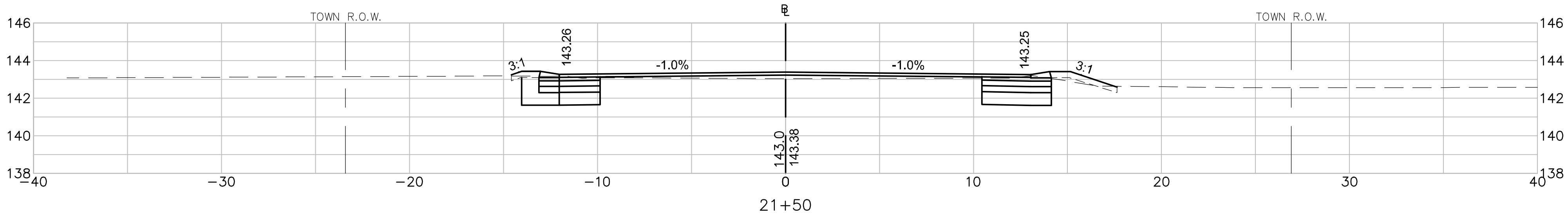
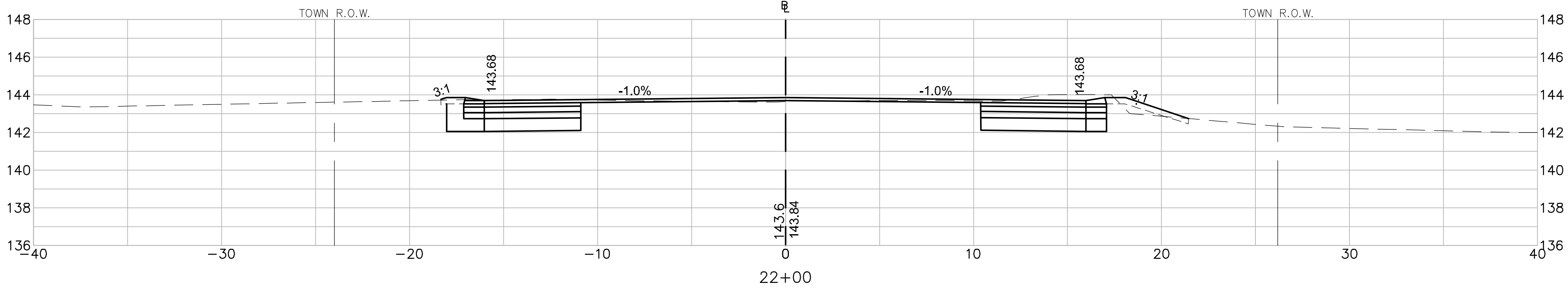
REVISIONS		
NO.	DESCRIPTION	DATE
1.	UPDATED UPL LOCATIONS	2/25/25

DRAWING TITLE

Temporary Traffic
Control Plans

SHEET 23 OF 33	DRAWING NUMBER
JOB NO. 5452	23
CAD 5452DS	

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PROJECT TITLE

Redbrook Mixed Use
Development

Plymouth,
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1.	UPDATED UPL LOCATIONS	2/25/25

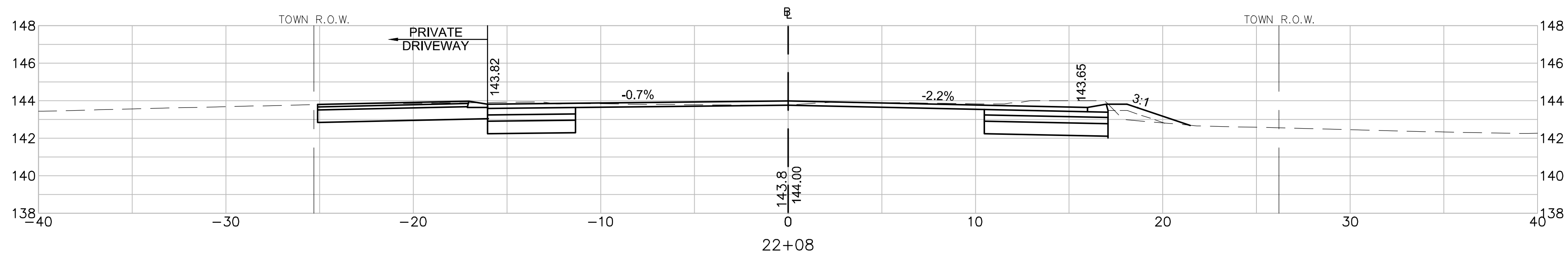
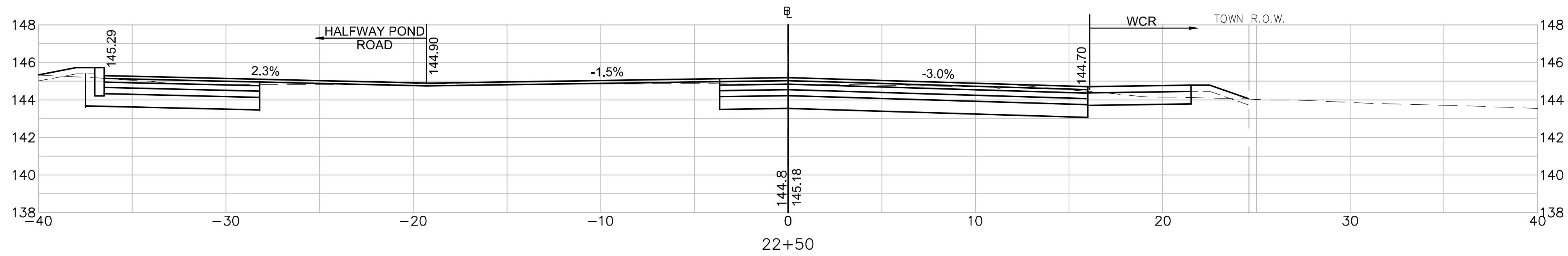
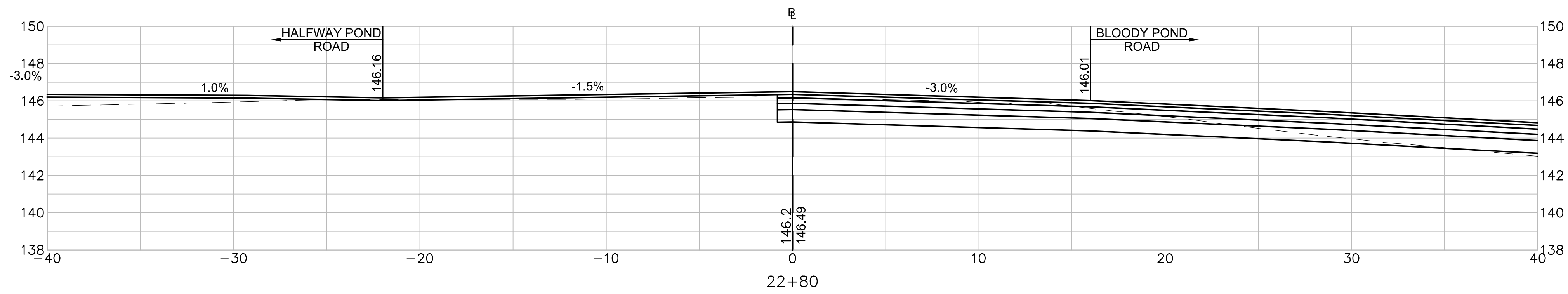
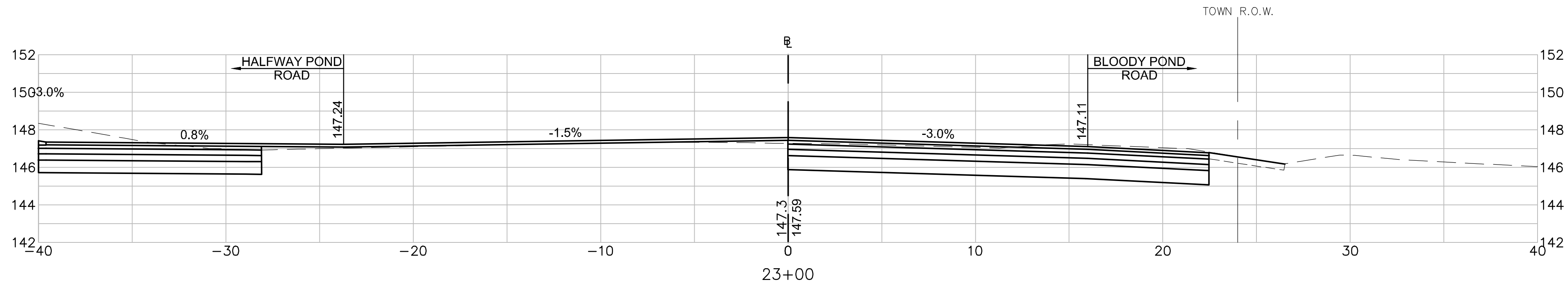
DRAWING TITLE

Cross Sections

Long Pond Road

SHEET 24 OF 33	DRAWING NUMBER
JOB NO. 5452	24
CAD 5452CS	

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PROJECT TITLE

Redbrook Mixed Use
Development

Plymouth,
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1.	UPDATED UPL LOCATIONS	2/25/25

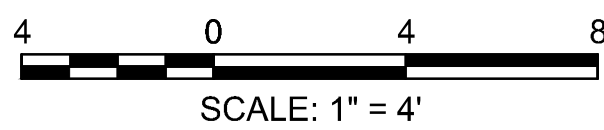
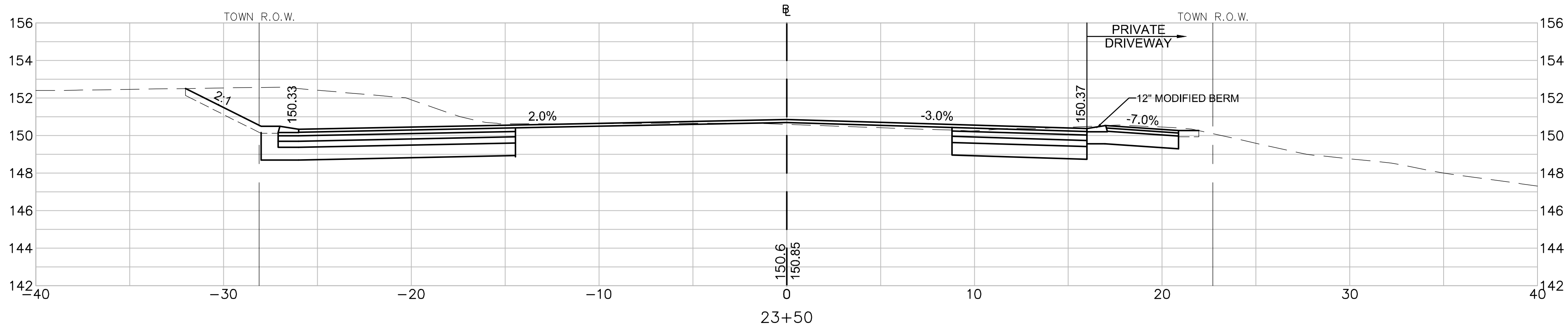
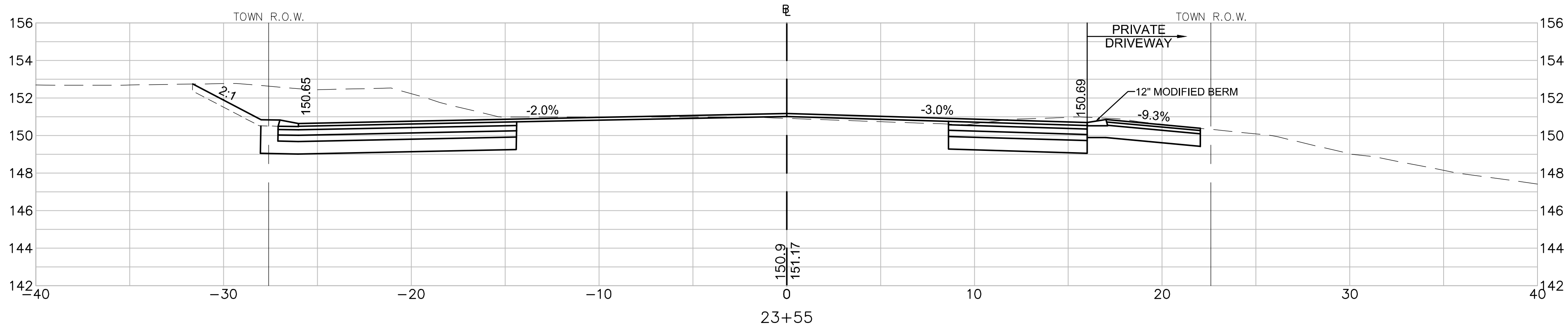
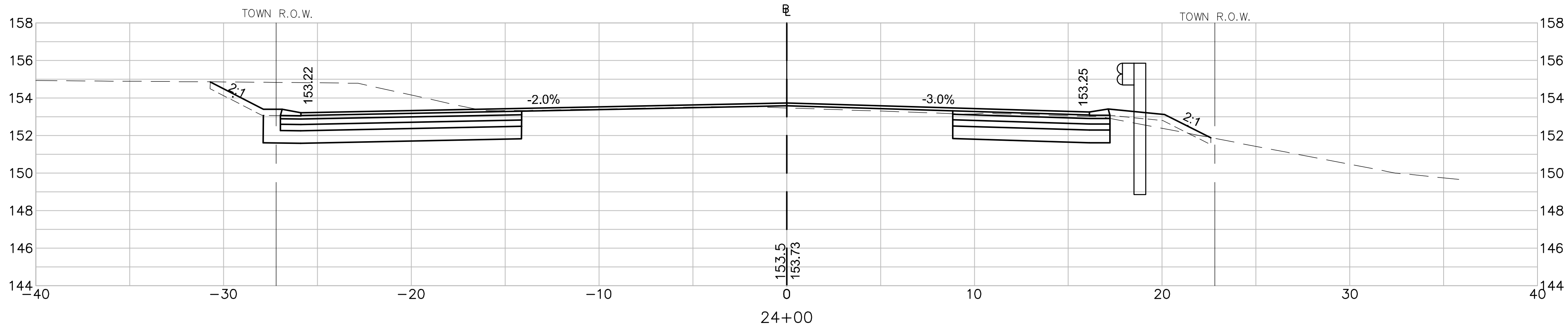
DRAWING TITLE

Cross Sections

Long Pond Road

SHEET 25 OF 33	DRAWING NUMBER
JOB NO. 5452	25
CAD 5452CS	

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PROJECT TITLE

Redbrook Mixed Use
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Plymouth,
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1.	UPDATED UPL LOCATIONS	2/25/25

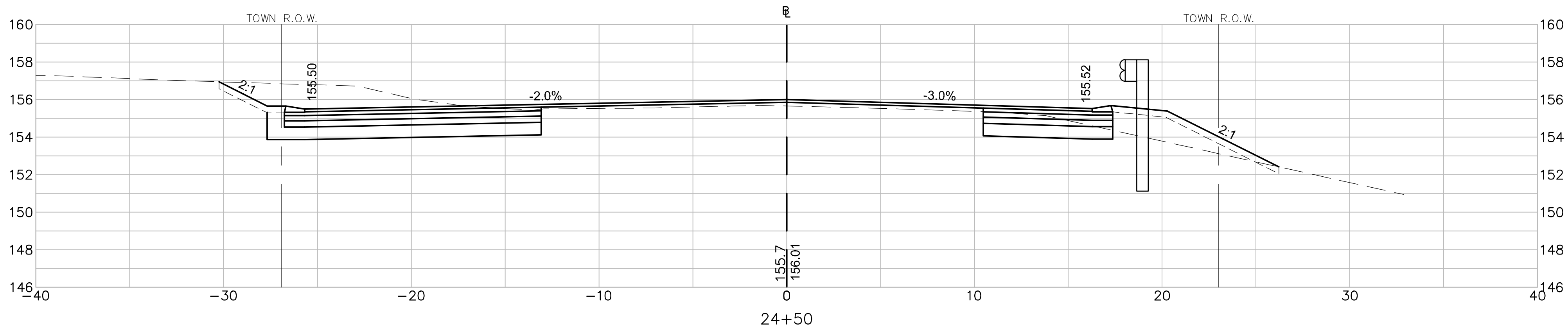
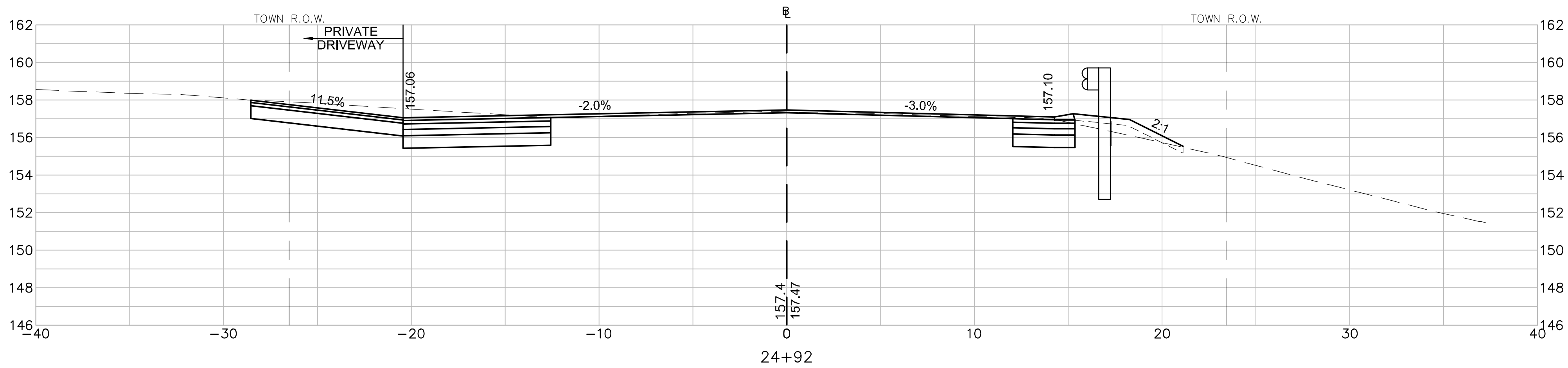
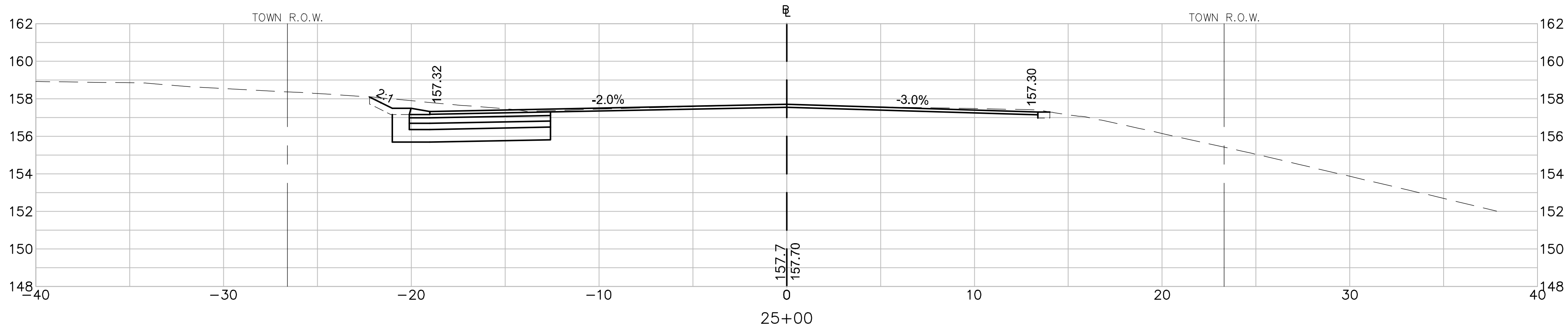
DRAWING TITLE

Cross Sections

Long Pond Road

SHEET 26 OF 33	DRAWING NUMBER
JOB NO. 5452	26
CAD 5452CS	

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Redbrook Mixed Use
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1.	UPDATED UPL LOCATIONS	2/25/25

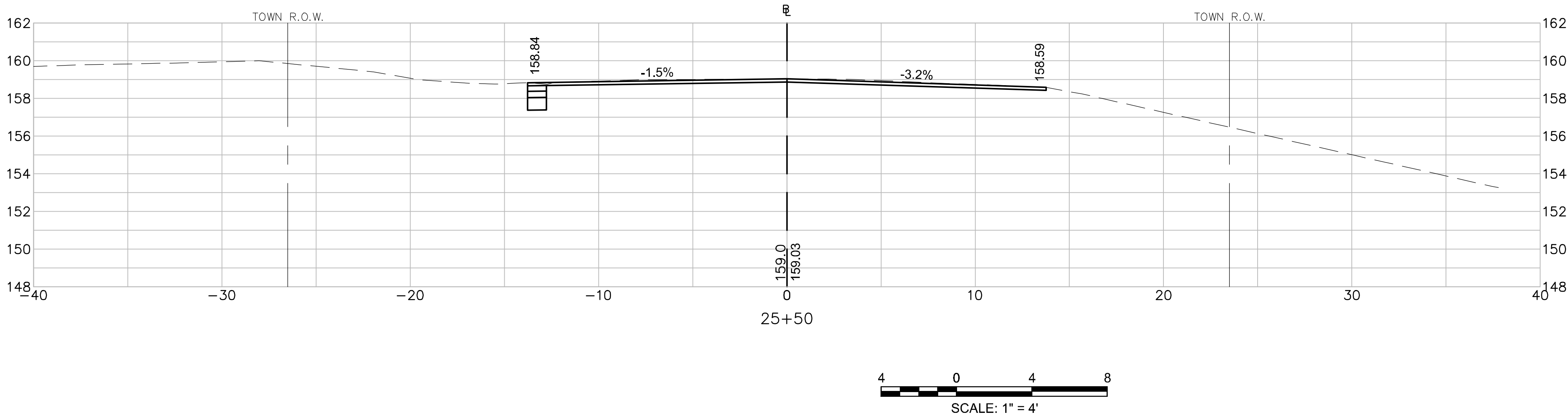
DRAWING TITLE

Cross Sections

Long Pond Road

SHEET 27 OF 33	DRAWING NUMBER
JOB NO. 5452	27
CAD 5452CS	

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PROJECT TITLE

Redbrook Mixed Use
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NO.	DESCRIPTION	DATE
1.	UPDATED UPL LOCATIONS	2/25/25

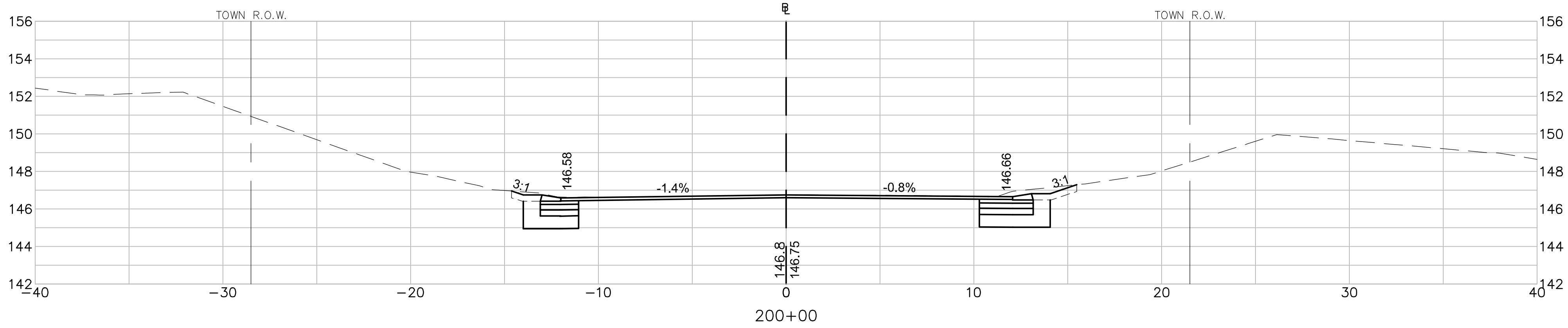
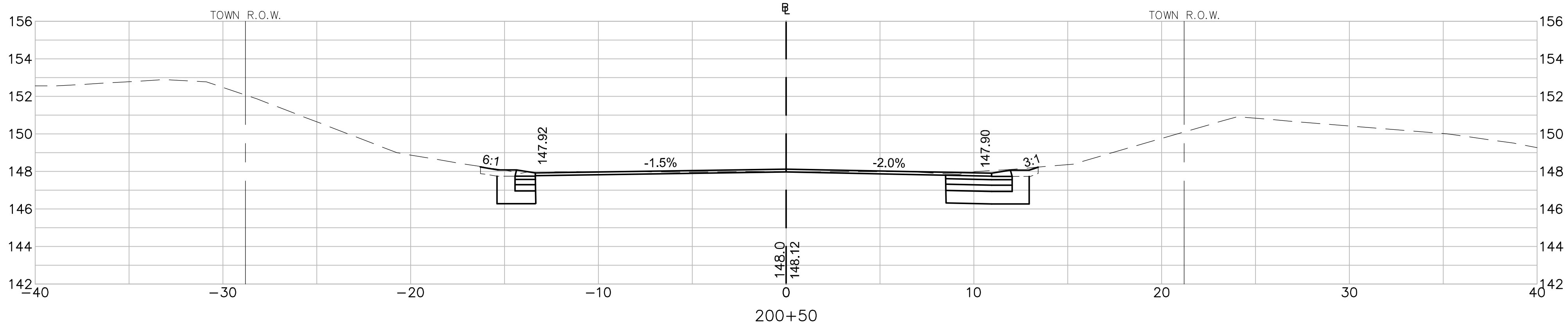
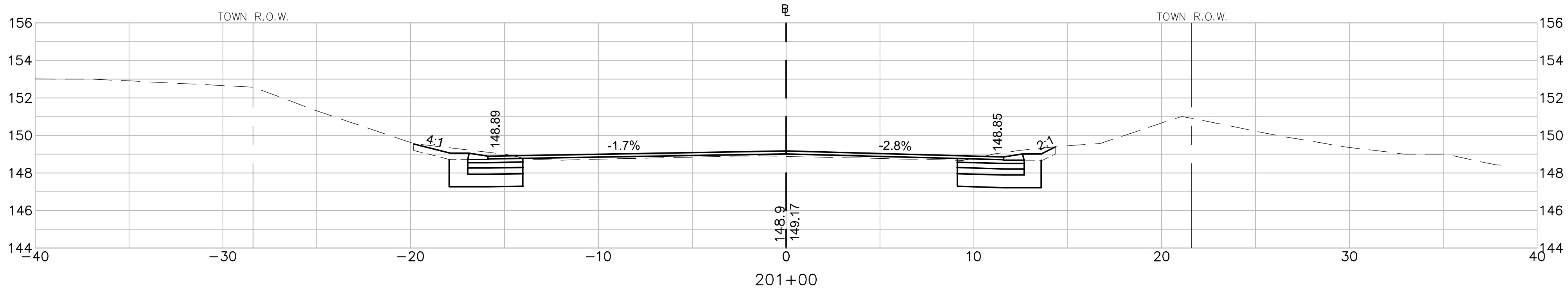
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Cross Sections

Long Pond Road

SHEET 28 OF 33	DRAWING NUMBER
JOB NO. 5452	28
CAD 5452CS	

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PROJECT TITLE

Redbrook Mixed Use Development

Plymouth, Massachusetts

PREPARED FOR

ADM Development Services, LLC

Wareham, Massachusetts



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NO.	DESCRIPTION	DATE
1.	UPDATED UPL LOCATIONS	2/25/25

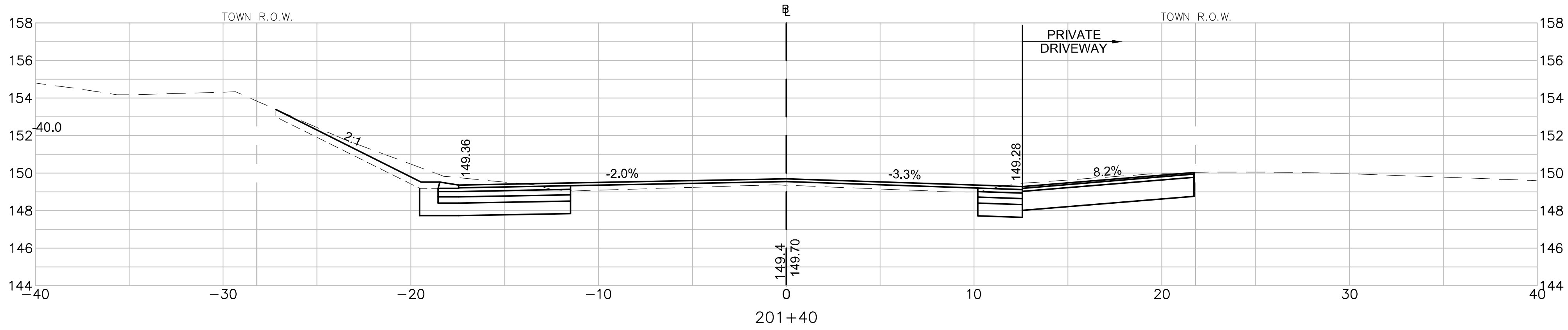
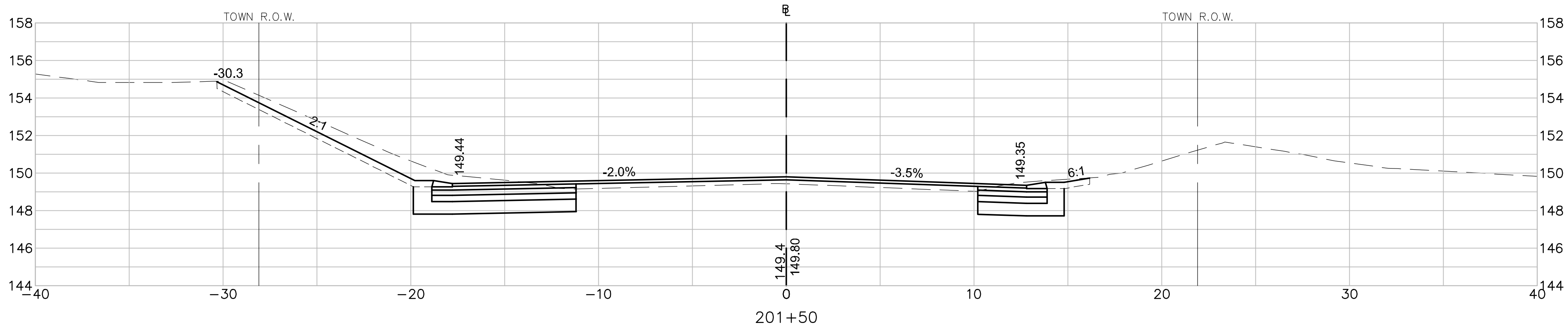
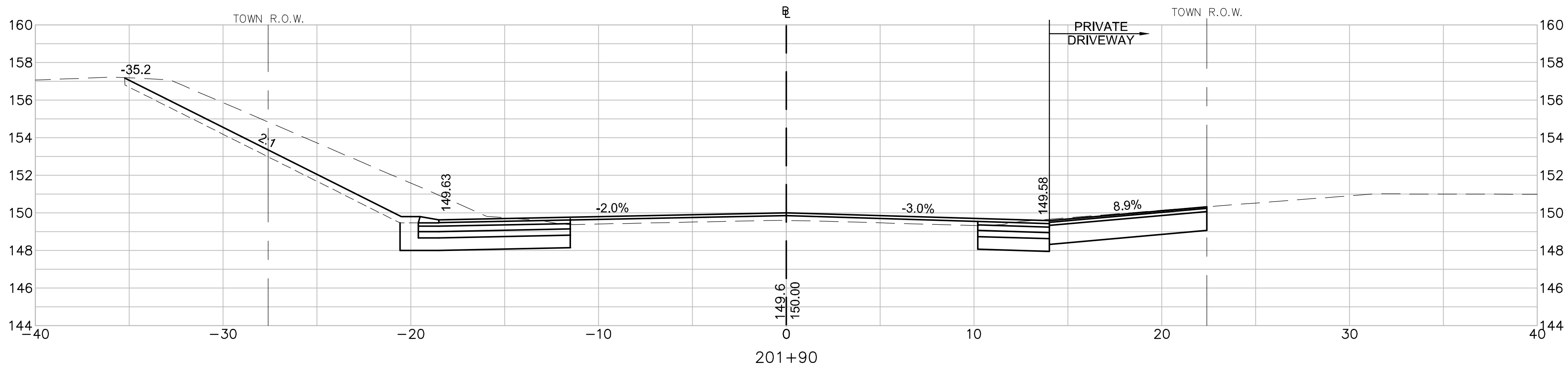
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Cross Sections

Halfway Pond Road

SHEET 29 OF 33	DRAWING NUMBER
JOB NO. 5452	29
CAD 5452CS	
2021_0227	

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PROJECT TITLE

Redbrook Mixed Use Development

Plymouth, Massachusetts

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NO.	DESCRIPTION	DATE
1.	UPDATED UPL LOCATIONS	2/25/25

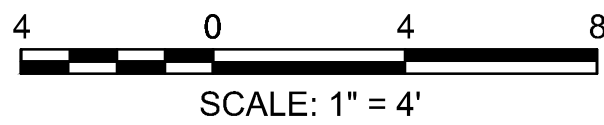
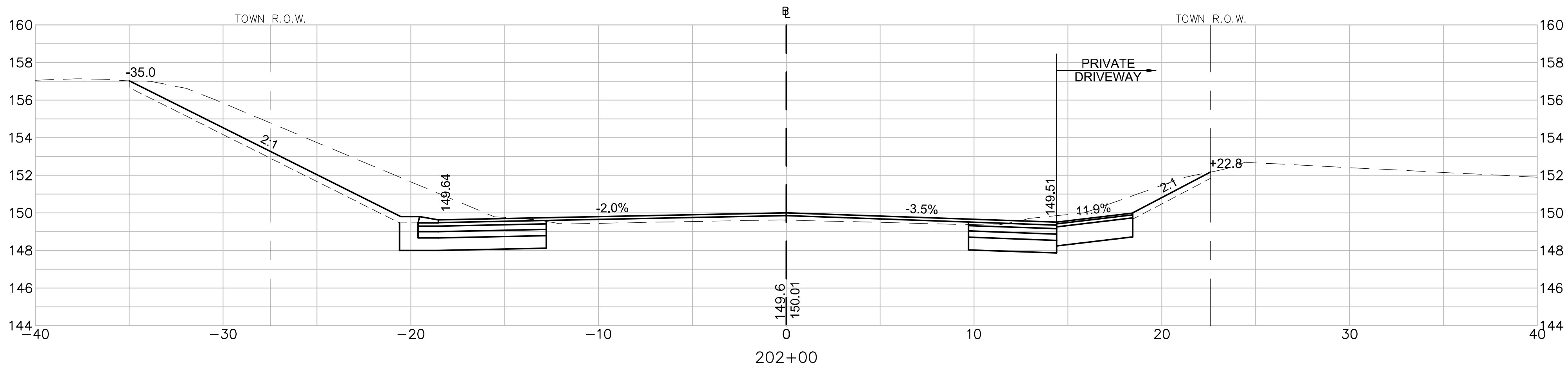
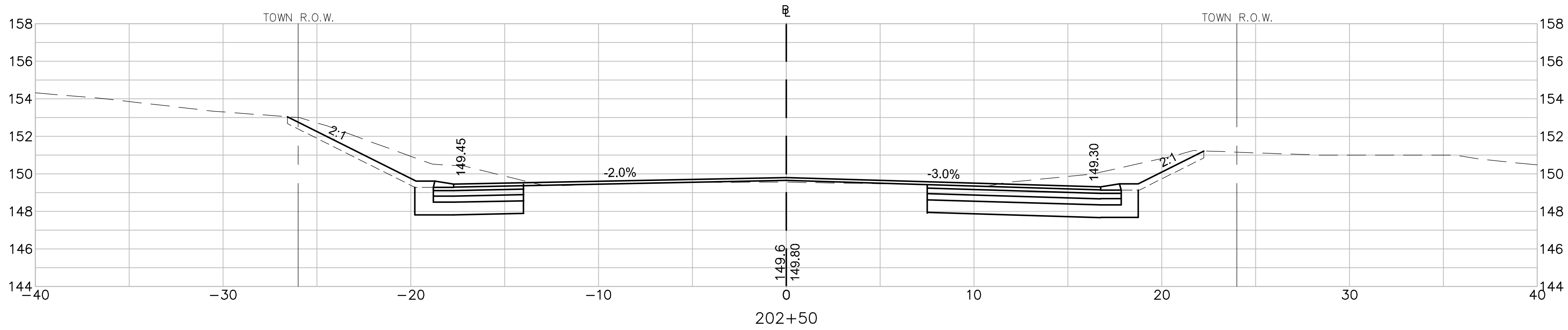
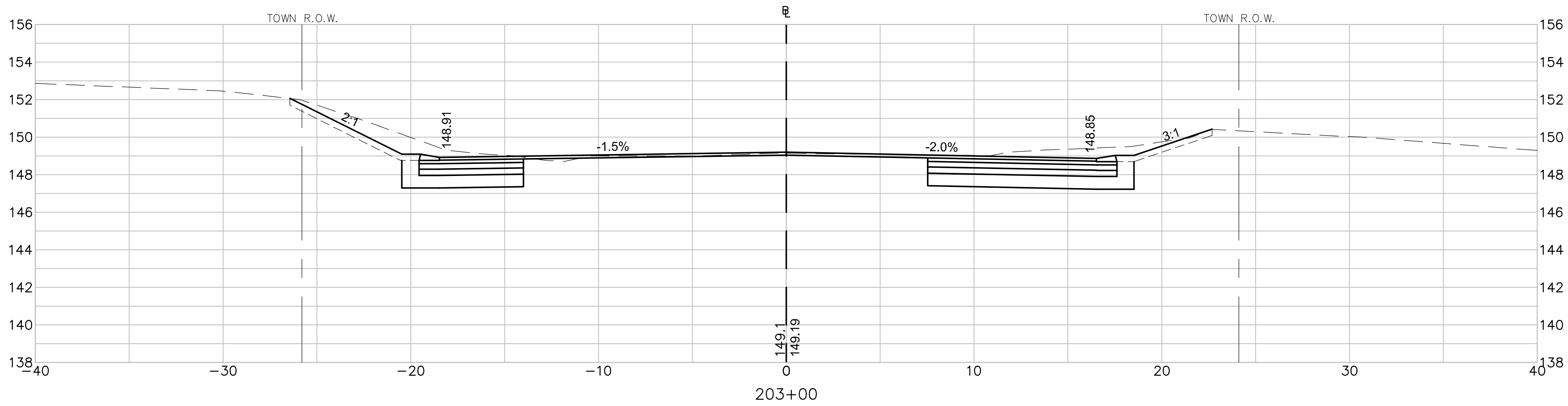
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Cross Sections

Halfway Pond Road

SHEET 30 OF 33	DRAWING NUMBER
JOB NO. 5452	30
CAD 5452CS	
2024_0227	

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PROJECT TITLE

Redbrook Mixed Use
Development

Plymouth,
Massachusetts

PREPARED FOR

ADM Development
Services, LLC

Wareham,
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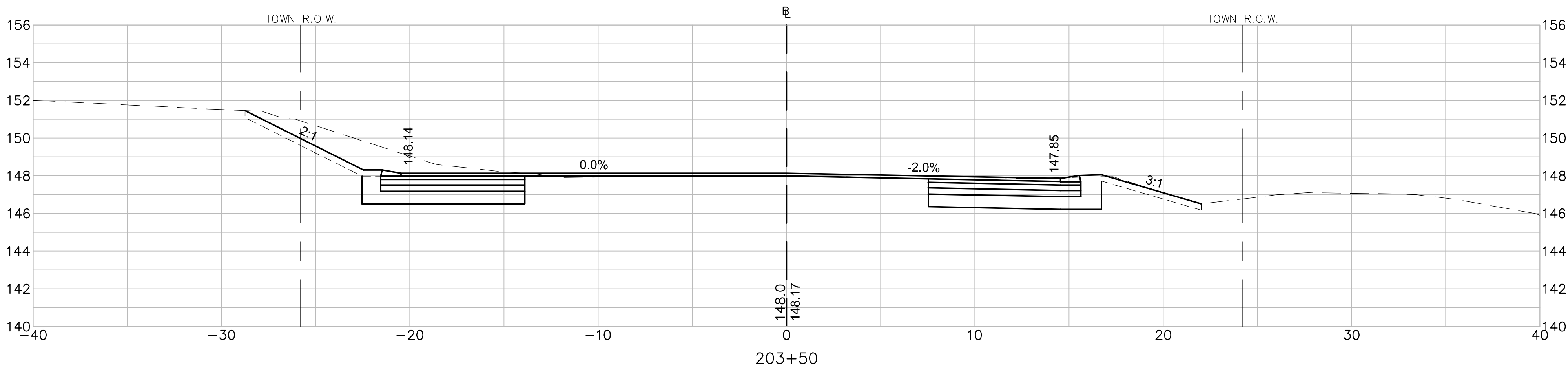
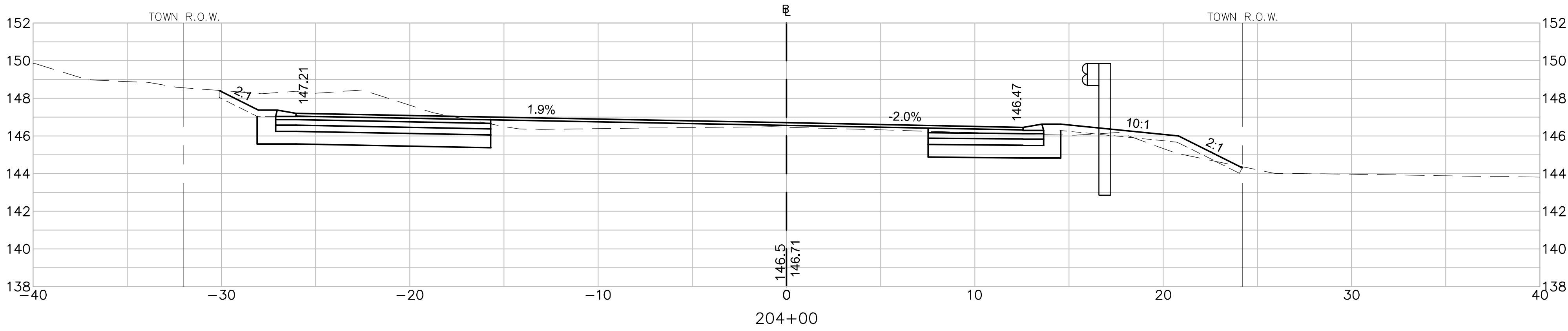
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Cross Sections

Halfway Pond Road

SHEET 31 OF 33	DRAWING NUMBER
JOB NO. 5452	31
CAD 5452CS	
2024_0227	

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PROJECT TITLE

Redbrook Mixed Use Development

Plymouth, Massachusetts

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Wareham, Massachusetts



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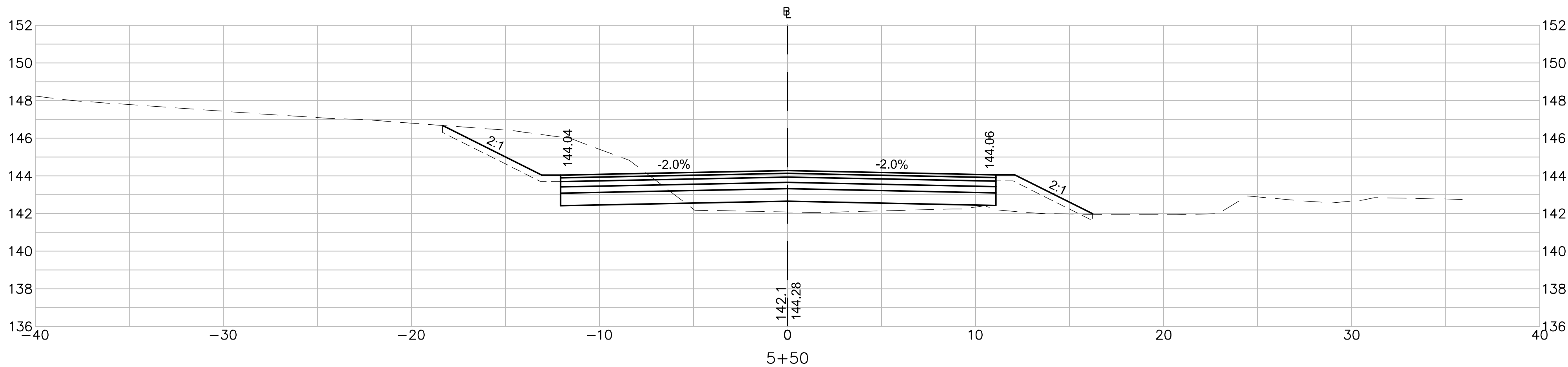
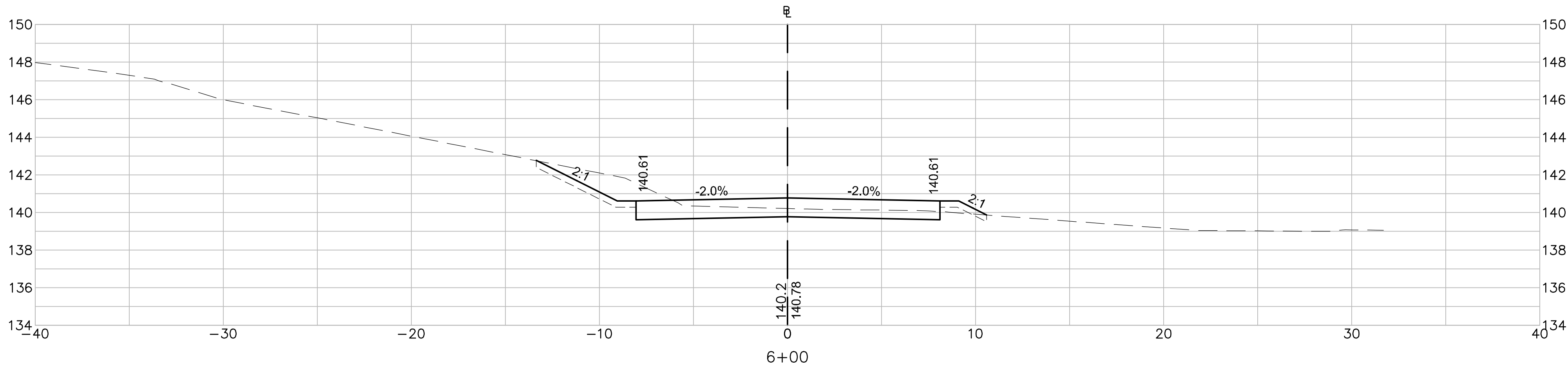
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Cross Sections

Halfway Pond Road

SHEET 32 OF 33	DRAWING NUMBER
JOB NO. 5452	32
CAD 5452CS	
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PROJECT TITLE

Redbrook Mixed Use Development

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1.	UPDATED UPL LOCATIONS	2/25/25

DRAWING TITLE

Cross Sections

Bloody Pond Road

SHEET 33 OF 33	DRAWING NUMBER
JOB NO. 5452	33
CAD 5452CS	