MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	1	186
PROJECT FILE NO.	609204		

TITLE SHEET & INDEX

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PLAN AND PROFILE OF

BELMONT COMMUNITY PATH - PHASE 1

BELMONT COMPONENT OF THE MASS CENTRAL RAIL TRAIL

IN THE TOWN OF

BELMONT

MIDDLESEX COUNTY

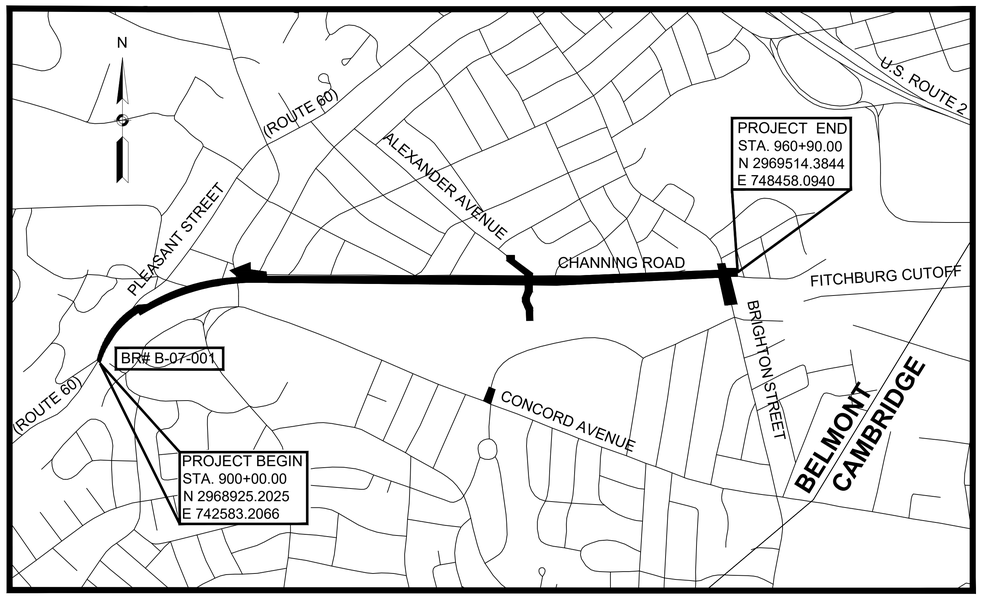
FEDERAL AID PROJECT NO.

75% SUBMITTAL

THESE PLANS ARE SUPPLEMENTED BY THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

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0 200 400 800 1600

SCALE: 1" = 200'

LENGTH OF PROJECT = 6090.00 FEET = 1.153 MILES

SHARED USE PATH DESIGN DESIGNATION

DESIGN SPEED	18 MPH
MINIMUM HORIZONTAL CURVE RADIUS	60'
MINIMUM LENGTH OF CREST VERTICAL CURVE	100'
MAXIMUM GRADE FOR LEVEL TERRRAIN	4.5% ±0.5% (7.5% MAX AT ADA/AAB ACCESSIBLE RAMPS)

DATE	DESCRIPTION	REV #
02/10/2025	75% SUBMISSION	3
02/18/2022	25% SUBMISSION REVISED UTILITY PLANS (53-60)	2
10/29/2021	25% SUBMISSION	1

massDOT Massachusetts Department of Transportation Highway Division

APPROVED

CHIEF ENGINEER _____ DATE _____

Nitsch Engineering
www.nitscheng.com
2 Center Plaza, Suite 430
Boston, MA 02108
T: (617) 338-0063
F: (617) 338-6472
► Civil Engineering
► Land Surveying
► Transportation Engineering
► Structural Engineering
► Green Infrastructure
► Planning
► GIS

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
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		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 CONTROL 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

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
1	1	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)
RRSG	RRSG	RAILROAD SIGNAL
OR		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
	20'	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
	20'	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
ONLY	ONLY	LEGEND "ONLY" - WHITE
	SL	STOP LINE - 12" WIDE
	CW	CROSSWALK - 12" WIDE
	SWL	SOLID WHITE LINE - 4" / 6" WIDE
	SYL	SOLID YELLOW LINE - 4" / 6" WIDE
	BWL	BROKEN WHITE LINE - 4" / 6" WIDE - 10' LINE AND 30' GAP
	BYL	BROKEN YELLOW LINE - 4" / 6" WIDE - 10' LINE AND 30' GAP
	DWL	DOTTED WHITE LINE - 6" WIDE - 3' LINE AND 9' GAP
	DYL	DOTTED YELLOW LINE - 6" WIDE - 3' LINE AND 9' GAP
	DWLEx	DOTTED WHITE LINE EXTENSION - 6" WIDE - 2' LINE AND 6' GAP
	DYLEx	DOTTED YELLOW LINE EXTENSION - 6" WIDE - 2' LINE AND 6' GAP
	DBWL	DOUBLE WHITE LINE - 6" WIDE
	DBYL	DOUBLE YELLOW LINE - 6" WIDE

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
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
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	2	186
PROJECT FILE NO.	609204		

LEGEND & ABBREVIATIONS

ABBREVIATIONS (cont.)

GENERAL

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
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
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
OL	OVERLAP
PED	PEDESTRIAN
PTZ	PAN, TILT, ZOOM
R	STEADY CIRCULAR RED
RL	STEADY RED LEFT ARROW
RR	STEADY RED RIGHT ARROW
TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALKING PERSON
Y	STEADY CIRCULAR YELLOW
YL	STEADY YELLOW LEFT ARROW

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	3	186
PROJECT FILE NO.	609204		

GENERAL NOTES

GENERAL NOTES

1. THE EXISTING TOPOGRAPHIC CONDITIONS SHOWN ON THESE PLANS CONSIST OF ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY NITSCH ENGINEERING SEPTEMBER 2019 AND MAY 2021.

2. COORDINATES ARE PROVIDED IN US SURVEY FEET, REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83). ELEVATIONS ARE PROVIDED IN US SURVEY FEET, REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

3. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING GRADES AND ELEVATIONS AT THE LOCATIONS WHERE PROPOSED WORK MEETS EXISTING CONDITIONS.

4. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE HIS OWN DETERMINATION OF SUBSURFACE CONDITIONS INCLUDING THE LOCATION OF ROCK AND THE ACTUAL LOCATION OF UTILITIES OR OTHER FEATURES WHICH MAY AFFECT THEIR WORK.

5. EXISTING UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM FIELD SURVEYS AND VARIOUS OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND ACTUAL FIELD CONDITIONS ENCOUNTERED. 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 THIS INFORMATION FURNISHED TO THE ENGINEER.

6. THE RELOCATION, INSTALLATION OR REMOVAL OF PRIVATE UTILITIES SHALL BE ACCOMPLISHED BY THEIR OWNERS, EXCEPT AS OTHERWISE NOTED. THE CONTRACTOR WILL BE REQUIRED TO COOPERATE WITH THE PRIVATE UTILITY COMPANIES AND ALLOW THEM ADEQUATE TIME TO COMPLETE THEIR WORK IN ADVANCE OF PERFORMING ANY PAVING OPERATIONS OR OTHER FINISHED WORK.

7. AREAS OUTSIDE OF THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ENGINEER.

8. THE CONTRACTOR SHALL CONTACT "DIG SAFE" AT 1-888-DIG-SAFE AT LEAST 72 HOURS PRIOR TO COMMENCING WORK ON THE PROJECT.

9. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND FOR MAINTAINING COMPOST FILTER TUBES, SILT FENCE(S), AND OTHER EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE CONTRACT AT AREAS WHERE SHOWN ON THE PLANS AND REQUIRED BY THE ENGINEER.

10. NO EXISTING DRAINAGE SYSTEMS SHALL BE ABANDONED, PLUGGED OR REMOVED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

11. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL SAFETY CODES AND LEGAL REQUIREMENTS, IN THE CONSTRUCTION OF IMPROVEMENTS.

12. ALL EXISTING PIPING AND STRUCTURES EXPOSED DURING EXCAVATION SHALL BE ADEQUATELY SUPPORTED, BRACED OR OTHERWISE PROTECTED DURING CONSTRUCTION ACTIVITIES. EXCAVATIONS SHALL BE BACK FILLED DAILY AT THE COMPLETION OF WORK.

13. UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE AT ALL TIMES. IF THE CONTRACTOR DAMAGES UTILITY SYSTEMS, THEY SHALL IMMEDIATELY NOTIFY THE RESPECTIVE UTILITY COMPANY AND SHALL REPAIR/REPLACE THE AFFECTED SYSTEM AT THEIR OWN EXPENSE.

14. ALL MATERIALS TO BE REMOVED AND DISCARDED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.

15. CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING OF ALL EXCAVATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNING CODES AND REGULATIONS.

16. THE TEMPORARY TRAFFIC CONTROL PLAN INDICATES THE GENERAL REQUIREMENTS FOR THE VARIOUS PHASES OF WORK. THE CONTRACTOR SHALL SUBMIT DETAILED TRAFFIC MANAGEMENT PLANS TO THE ENGINEER FOR APPROVAL.

17. THE FLOW OF TRAFFIC THROUGH THE SITE MUST BE MAINTAINED AS SHOWN ON THE TRAFFIC CONTROL PLAN AND SPECIFIED IN THE SPECIAL PROVISIONS. CONSTRUCTION EQUIPMENT AND MATERIALS SHALL NOT BE PARKED OR STOCKPILED SO AS TO OBSTRUCT THE FLOW OF VEHICLES.

18. SURFACE JOINTS BETWEEN NEW HOT MIX ASPHALT ROADWAY AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH HMA JOINT SEALANT.

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	4	186
PROJECT FILE NO.	609204		

KEY PLAN

LEGEND:

- XX — BASELINE TIES PLAN
- XX — PLAN AND PROFILE PLAN
- XX — TRAFFIC SIGN AND PAVEMENT MARKINGS PLAN
- XX — TRAFFIC SIGNAL PLAN
- XX — DRAINAGE & UTILITY PLAN
- SOIL BORING LOCATION

N

PLEASANT STREET
LEONARD STREET
CLAFLIN STREET
CROSS STREET
FARM ROAD
ALEXANDER AVENUE
SHERMAN STREET
JASON ROAD
DEAN STREET
STATLER ROAD
WATERHOUSE ROAD
NEWCASTLE ROAD
BRIGHTON STREET
CONCORD AVENUE
CHANNING ROAD
ROYAL ROAD
COMMON STREET
CLARK STREET
HITTINGER STREET
BELMONT STATION
MBTA FITCHBURG LINE
CLARK STREET PEDESTRIAN BRIDGE
FITCHBURG CUTOFF
BELMONT MIDDLE AND HIGH SCHOOL

W1-1, W1-2, W1-3, W1-4, W1-6
W2-1
W3-1, W3-2, W3-3, W3-4, W3-5
W4-1
W5-1, W5-2, W5-6
TB-1, TB-2, TB-3
MW-1

PROJECT BEGIN
STA 900+00
N2968925.2025
E742583.2066

PROJECT END
STA 960+90
N2969514.3844
E748458.0940

0 200 400 600 800
SCALE: 1" = 200'

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BORING NOTES:
1. LOCATION OF BORINGS SHOWN ON THE PLAN THUS: ☢
2. BORINGS ARE TAKEN FOR PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY, BUT DO NOT NECESSARILY SHOW THE NATURE OF THE MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
3. WATER LEVELS SHOWN ON THE BORING LOGS WERE OBSERVED AT THE TIME OF TAKING BORINGS AND DO NOT NECESSARILY SHOW THE TRUE GROUND WATER LEVEL.
4. FIGURES IN COLUMNS INDICATE NUMBER OF BLOWS REQUIRED TO DRIVE A 1 3/8" I.D. SPLIT SPOON SAMPLER 6" USING A 140 POUND WEIGHT FALLING 30".
5. BORINGS WERE MADE IN JUNE 2020, AUGUST 2021, SEPTEMBER 2021, AND APRIL 2024.
6. BORINGS WERE MADE BY NEW ENGLAND BORING CONTRACTORS, 40 FORDWAY STREET, DERRY, NH 03038
7. THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 IS USED THROUGHOUT.
8. BORING SAMPLES ARE STORED AT A STORAGE FACILITY LOCATED ON ROUTE 114 (219 WINTHROP AVE.) IN LAWRENCE, MA. THE CONTRACTOR MAY EXAMINE THE SOIL AND ROCK SAMPLES BY CONTACTING THE MASSDOT GEOTECHNICAL SECTION AT 10 PARK PLAZA, BOSTON, MA.
9. THE WATER LEVELS RECORDED IN THE TABLE ARE THOSE MEASURED ON THE DATES GIVEN AND DO NOT NECESSARILY REPRESENT GROUND WATER LEVEL AT THE TIME OF CONSTRUCTION.

BELMONT
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SOIL BORING LOGS

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: TB-1
SHEET: 1 of 2
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors	**Type of Rig:** Truck	**Boring Location:** N2969576.7984 - E745678.6451	**H. Datum:** See Plan
Foreman: Ken Smith	**Rig Model:** Strattar Star FIS	**Ground Surface Elev. (ft.):** 25.0	
Logged By: C. Troughton	**Drilling Method:** Drive & Wash	**Final Boring Depth (ft.):** 71	**V. Datum:** NAVD88
		Date Start - Finish: 6/26/2020 - 6/26/2020	

Auger/Casing Type: Automatic	**Sampler Type:** Split Spoon	
I.D/O.D.(in): 4" O.D.	**I.D./O.D. (in.):** 1.375"/2"	
Hammer Weight (lb.): 140 lbs.	**Sampler Hmr Wt (lb):** 140 lbs	
Hammer Fall (in.): 30"	**Sampler Hmr Fall (in):** 30"	
Other:	**Other:**	

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
0		S-1	0-2	24	10	23 20 9 7	29	S-1: Medium dense, black, fine to coarse SAND, little Silt, little to fine to coarse Gravel, dry (fill).	1	ND			
		S-2	2-4	24	7	6 6 9 5	15	S-2: Loose, black, fine to coarse GRAVEL, some fine to coarse Sand, trace Silt, dry (fill).		ND			
5		S-3	4-6	24	8	5 3 3 5	6	S-3: Very loose, black/tan, fine to coarse SAND, little fine Gravel, trace Silt, dry (fill).		ND		FILL	
		S-4	6-8	24	18	7 3 3 3	6	S-4: Top 5": Black/tan, fine to coarse SAND, little fine Gravel, trace Silt, dry (fill).		ND	8.5'		16.5'
10		S-5	8-10	24	15	8 12 13 16	25	S-4: Bottom 13": Tan, Silty CLAY, little Gravel, trace Sand, wet. S-5: Very stiff, tan, Silty CLAY, moist.					
15		S-6	14-16	24	24	4 8 7 8	15	S-6: Stiff, tan, Silty CLAY, moist.		ND			
20		S-7	19-21	24	20	3 2 6 6	8	S-7: Stiff, tan, Silty CLAY, trace Sand, moist.		ND			
25		S-8	24-26	24	24	PUSH		S-8: Gray, Silty CLAY, moist.		ND		SILTY CLAY	
30		S-9	29-31	24	24	WOH WOH WOH 2	0	S-9: Very soft, gray, Silty CLAY, moist.		ND			
35													
40		S-10	39-41	24	24	WOR				ND			

REMARKS
1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandunderthecondition sstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: TB-1

174493.00 BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/WE; 8/21/2024

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: TB-1
SHEET: 2 of 2
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
45						WOR WOR WOR	0	S-10: Soft, gray, Silty CLAY, wet.					
50		S-11	49-51	24	12	WOR WOR WOR WOR	0	S-11: Soft, gray, Silty CLAY, wet.		ND			
55												SILTY CLAY	
60		S-12	59-61	24		WOR WOR WOR WOR	0	S-12: Soft, gray, Silty CLAY, wet.		ND			
65											68'		-43.0'
70		S-13	69-71	24	5	WOH 24 21 24	45	S-13: Dense, gray, fine to coarse SAND, some Gravel, some Silty Clay, wet.	2	ND		GLACIAL TILL	
								Auger refusal at 71 feet.	3		71'		-46.0'
75													
80													
85													

REMARKS
2. Difficult drilling noted at approximately 68 feet below ground surface.
3. Upon completion, borehole backfilled with soil cuttings to approximate ground surface.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandunderthecondition sstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: TB-1

174493.00 BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/WE; 8/21/2024

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609204_HD(BORING).DWG Plotted on Feb-25 12:57 PM

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: TB-2
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Mientkiewicz
Logged By: A. Lupo

Type of Rig: ATV
Rig Model: Soil Scout
Drilling Method: Drive & Wash

Boring Location: N2969518.9307 - E745698.1721
Ground Surface Elev. (ft.): 29.6
Final Boring Depth (ft.): 26
Date Start - Finish: 8/31/2021 - 9/1/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)	SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
0		S-1	0-2	Grab				S-1: Brown/dark brown/black, fine to coarse SAND and GRAVEL, little Silt, trace (-) Organics, dry.	1 2 3				
5		S-2	4-6	Grab				S-2: Brown/dark brown, fine to coarse SAND and GRAVEL, little Silt, dry.	4			FILL	
10		S-3	9-11	24	8	4 6 5 4	11	S-3: Medium dense, tan/brown, fine to coarse SAND, some fine Gravel, little Silt, wet.			12.5'		17.1'
15		S-4	14-16	24	15	14 12 15 20	27	S-4: Very stiff, tan/brown, SILT & CLAY, wet.					
20		S-5	19-21	24	24	7 10 16 14	26	S-5: Very stiff, tan/brown, SILT & CLAY, wet.				SILTY CLAY	
25		U-6	24-26	24	24	Push/24"	R	U-6: Gray, Silty CLAY, wet.			26'		3.6'
								Auger refusal at 26 feet.	5				
30													
35													
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring vacuum excavated to a depth of approximately 6 feet below ground surface (bgs) to clear for utilities on 8/23/2021. Soil excavated was visually classified based on grab samples from the vacuum excavation and sidewalls of the boring. The boring was backfilled with the excavated soil upon completion of the vacuum excavation.
3. Boring was advanced using cased drilling methods to a depth of approximately 14 feet bgs. Boring advanced open hole thereafter.
4. Grinding and color change observed (black to brown/dark brown) at 6 to 7 feet below ground surface (bgs).
5. Upon completion, borehole backfilled with soil cuttings to approximate ground surface.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandundertheconditionsstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: TB-2

174493.00 BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/N/E; 8/21/2024

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: TB-3
SHEET: 1 of 2
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Ken Smith
Logged By: C. Troughton

Type of Rig: Mobile
Rig Model: Diedrick B-13
Drilling Method: Drive & Wash

Boring Location: N2969426.158 - E745696.537
Ground Surface Elev. (ft.): 17.4
Final Boring Depth (ft.): 72
Date Start - Finish: 6/29/2020 - 6/30/2020

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Automatic
I.D./O.D.: 4" O.D.
Hmr Weight (lb.): 140 lbs.
Hmr Fall (in.): 30"
Other:

Sampler Type: Split Spoon
I.D./O.D (in.): 1.375"/2"
Sampler Hmr Wt: 140 lbs
Sampler Hmr Fall: 30"
Other:

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
07/12/20	09:00	5.1	WELL	13 days
7/24/20	16:30	4.0	WELL	24 days
8/14/20	16:45	4.3	WELL	45 days

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)	SPT Value	Sample Description Modified Burmister	Remark	Field Test Data	Stratum Depth (ft)	Stratum Description	Stratum Elev. (ft)	Equipment Installed
0		S-1	0-2	24	11	2 4 4 4	8	S-1: Loose, tan, fine to coarse SAND, some fine to coarse Gravel, trace Silty,	1 2	ND				FLUSH MOUNTED ROAD BOX
		S-2	2-4	24	7	4 4 3 3	7	dry. S-2: Medium stiff, tan, Silty CLAY.		ND				CONCRETE 0.5 - 3 FEET
5		S-3	4-6	24	0	3 3 2 1	5	Tv = 300 psf S-3: No Recovery	3	ND		FILL		BENTONITE 3 - 5 FEET
		S-4	6-8	24	0	WOH 1 1 1	2	S-4: No Recovery		ND	8'		9.4'	
10		S-5	8-10	24	21	1 6 5 7	11	S-5: Stiff, tan, Silty CLAY. Tv = 250 psf		ND				SAND 5 - 35 FEET
15		S-6	14-16	24	20	2 9 9 7	18	S-6: Very Stiff, tan, Silty CLAY, some Sand, moist. Tv = 250 psf		ND				
20		S-7	19-21	24	24	WOH WOH WOH WOH	0	S-7: Very soft, gray, Silty CLAY. Tv = 250 psf		ND				
25		S-8	24-26	24	24	WOR WOR WOR WOR	0	S-8: Very soft, gray, Silty CLAY. Tv = 250 psf		ND		SILTY CLAY		WELL/SCREEN 5 - 35 FEET
30		S-9	29-31	24	23	WOR WOR WOR WOR	0	S-9: Very soft, gray, Silty CLAY.		ND				
35														
40		S-10	39-41	24	15	WOR		S-10: Very soft, gray, Silty CLAY.		ND				

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Headspace readings were recorded for all soil samples using a Phocheck Tiger Photoionization Detector (PID). Field Testing Results are presented in parts per million (PPM). "ND" indicates non-detect (<0.1 PPM).
3. Torvane (Tv) readings estimate relative undrained shear strength in pounds per square foot (psf).

Seelogkeyforexplanationofsampledescriptionsandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandundertheconditionsstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: TB-3

174493.00 BELMONT COMMUNITY PATH.GPJ; STANDARD BORING W/E W/O SMPL W/N/E 2PG; 8/21/2024

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TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: TB-3
SHEET: 2 of 2
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Blows (per 6 in.)	SPT Value	Sample Description Modified Burmister	Remark	Field Test Data	Stratum Depth (ft)	Stratum Description	Stratum Elev. (ft)	Equipment Installed
						WOR	0							
						WOR								
						WOR								
45														
50		S-11	49-51	24	24	PUSH		S-11: Gray, Silty CLAY.	4	ND				
55												SILTY CLAY		
60		S-12	59-61	24		WOR		S-12: Very soft, gray, Silty CLAY.		ND				
						WOR	0							
						WOR								
65						WOR								
											66'		-48.6'	
									5			GLACIAL TILL		
70		S-13	69-71	24	15	16 38 77 87	R	S-13: Very dense, gray, fine to coarse GRAVEL, some Silty Clay, some fine to coarse Sand, wet.		ND				
								Bottom of boring at 72 feet.	6		72'		-54.6'	
75														
80														
85														

REMARKS

4. Shelby Tube pushed from approximately 49 to 51 feet.
5. Increased drilling resistance at approximately 66 feet, indicating transition to glacial till.
6. Rollerbit refusal at 72 feet due to hole collapse.

See logkey for explanation of sample descriptions and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: TB-3

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: MW-1
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY:

Drilling Co.: New England Boring Contractors
Foreman: Norman Studdard
Logged By: Hayley McLeod

Type of Rig: Truck
Rig Model: Acterra
Drilling Method: Drive & Wash

Boring Location: N2969426.158 - E745726.537
Ground Surface Elev. (ft.):
Final Boring Depth (ft.): 16
Date Start - Finish: 4/29/2024 - 4/29/2024

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: HW
I.D./O.D.: 4/4.5
Hmr Weight (lb.): 140
Hmr Fall (in.): 30
Other: Autohammer

Sampler Type: Split Spoon
I.D./O.D (in.): 1-3/8"/2"
Sampler Hmr Wt: 140 lbs
Sampler Hmr Fall: 30"
Other:

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
4/29/2024	1145	2.4		1hr45m
8/13/2024	1140	2.9		

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Blows (per 6 in.)	SPT Value	Sample Description Modified Burmister	Remark	Field Test Data	Stratum Depth (ft)	Stratum Description	Stratum Elev. (ft)	Equipment Installed
		S-1	0-2	24	10	11 18		S-1: Dense, gray-brown, fine to coarse	1		0.3'	ASPHALT		FLUSH MOUNTED ROAD BOX
						14 14	32	SAND and GRAVEL, little Silt.						Sand (0-3')
		S-2	2-4	24	9	12 9		S-2: Medium Dense, gray-brown, fine to				FILL		2" PVC Riser (0-3')
						11 12	20	coarse SAND and GRAVEL, little Silt.			4'			
5		S-3	4-6	24	9	12 6		S-3: Stiff, light brown-gray, SILT and	2					
						8 13	14	CLAY.				SILTY CLAY		2"PVC Screen (3-13')
									3					Sand (3-13')
10		S-4	9-11	24	20	2 2		S-4A: (Top 4") Light brown, SILT and	4		9.4'			
						3 4	5	CLAY						
								S-4B: (Bottom 16") gray, CLAY				CLAY		
15		S-5	14-16	24	20	1 3		S-5A: (Top 6") Gray, CLAY			14.5'			Sand (13-16')
						8 9	11	S-5B: (Middle 7") Gray-light brown, SILT			15.1'	SILTY CLAY		
								and CLAY	5		16'	SILTY SAND		
								S-5C: (Bottom 7") Light brown, fine to						
								medium SAND, some Silt.						
20								Bottom of boring at 16 feet.						
25														
30														
35														
40														

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE)-Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Tv = 6, 8.4, 7 Pp = 4.25, 3.75, 3.75, 4.25, 2.5, 4, 2, 3.1, 2.5
3. Clay chips observed coming out of borehole during wash from 8-8.7 ft bgs.
4. Tv = 2.1, 4.5, 5.5 Pp = 0.5, 0.5, 0.4, 0.7, 0.75, 0.5, 1, 1.75, 1
5. Bottom of borehole at 16 ft bgs. Monitoring well installed in borehole with sand (16-13'), sand screen (13-3'), and riser (3-0'). Flush mounted road box cemented in place on top of well. Distance from top of road surface to top of well casing is 2 inches.

See logkey for explanation of sample descriptions and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: MW-1

174493.00 BELMONT COMMUNITY PATH.GPJ; STANDARD BORING W/E W/O SMPL W/N/E 2PG; 8/21/2024
174493.00 BELMONT COMMUNITY PATH.GPJ; STANDARD BORING W/E W/O SMPL W/N/E 2PG; 8/21/2024
609204_HD(BORING).DWG Plotted on Feb-25 12:57 PM
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TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W1-1
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Chris Knight
Logged By: A. Lupo

Type of Rig: Truck
Rig Model: Mobile B-53
Drilling Method: Drive & Wash

Boring Location: N2969008.66 - E742605.9
Ground Surface Elev. (ft.): 72.7
Final Boring Depth (ft.): 38.1
Date Start - Finish: 9/14/2021 - 9/16/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 4"/4.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)	SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	0-2	Grab				S-1: (Top 12") Gray/dark gray, ASPHALT.	1		1'	ASPHALT	71.7'
								S-1: (Bottom 12") Gray/tan, fine to coarse SAND and GRAVEL, trace Silt.	2			FILL	
5		S-2	4-6	Grab				S-2: Brown, fine to coarse SAND and GRAVEL, little Silt.	3		7'		65.7'
10		S-3	8-8.8	9	6	39 100/3"	R	S-3: Very dense, brown to dark brown, fine to coarse SAND and GRAVEL, some Silt.	4				
15		S-4	13-13	0	0	100/0"	R	S-4: No recovery.	5				
20		S-5	18-19.3	15	14	100 48 100/3"	R	S-5: Hard, gray with brown, Silty CLAY and GRAVEL, some fine to coarse Sand.				GLACIAL TILL	
25		S-6	23-23.1	1	1	100/1"	R	S-6: Hard, gray with brown, Silty CLAY and GRAVEL, some fine to coarse Sand.					
30		S-7	28-28.3	3	2	100/3"	R	S-7: Hard, gray with brown, Silty CLAY and GRAVEL, some fine to coarse Sand.					
35		S-8	33-33.3	3	2	100/3"	R	S-8: Hard, gray with brown, Silty CLAY and GRAVEL, some fine to coarse Sand.					
											38'		34.7'
40		S-9	38-38.1	1	1	100/1"	R	S-9: Very dense, gray with dark brown, GRAVEL.	6		38.1'	POSS. ROCK	34.6'
								Auger refusal at 38.1 feet.					

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring vacuum excavated to a depth of approximately 6 feet below ground surface (bgs) to clear for utilities on 9/14/2021. Soil excavated was visually classified based on grab samples from the vacuum excavation and sidewalls of the boring. The boring was backfilled with the excavated soil upon completion of the vacuum excavation.
3. Cobbles observed within the borehole at approximately 4 feet bgs.
4. Boring was advanced using cased drilling methods to a depth of approximately 8 feet bgs; boring advanced open hole thereafter.
5. Drill cuttings, consisting of brown GRAVEL, some fine to medium Sand, some Silt, were noted in tip of split spoon.
6. Upon completion, borehole backfilled with soil cuttings and asphalt cold patch to approximate ground surface.

See Log Key for explanation of sampled description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W1-1

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W1-2
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Mientkiewicz
Logged By: A. Lupo

Type of Rig: ATV
Rig Model: Soil Scout
Drilling Method: Drive & Wash

Boring Location: N2969078.913 - E742715.401
Ground Surface Elev. (ft.): 49.9
Final Boring Depth (ft.): 20.7
Date Start - Finish: 8/27/2021 - 8/27/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)	SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	0-2	24	16	5 6 7 9	13	S-1: Medium dense, brown/dark brown/black, fine to coarse SAND and GRAVEL, little Silt, trace Organics.	1			FILL	
5		S-2	4-6	24	24	47 36 30 30	66	S-2: (Top 12") Very dense, brown/dark brown/black, fine to coarse SAND and GRAVEL, little Silt, trace Organics. S-2: (Bottom 12") Tan/brown, fine to coarse SAND and GRAVEL, some Silt.	2		5'		44.9'
10		S-3	9-11	24	11	30 29 29 75	58	S-3: Very dense, tan/brown/dark brown, fine to coarse SAND and GRAVEL, some Silt.	3			GLACIAL TILL	
15		S-4	14-16	24		9 18 21 23	39	S-4: Dense, tan/brown, fine to medium SAND and GRAVEL, some Silt.					
20		S-5	19-20.7	8	5	23 50/2"	R	S-5: Very dense, brown/dark brown, fine to coarse SAND and GRAVEL, little Silt.	45		20.7'		29.2'
								Auger refusal at 20.7 feet.					
25													
30													
35													
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Grinding and color change observed (black to tan/brown) at 5 feet below ground surface (bgs).
3. A large cobble was encountered at approximately 11 feet bgs.
4. Driller indicated spoon refusal due to cobble or boulder.
5. Upon completion, the borehole was backfilled with soil cuttings to approximate ground surface.

See Log Key for explanation of sampled description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W1-2

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174493.00 BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/N/E; 8/21/2024

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W1-3
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Mientkiewicz
Logged By: A. Lupo

Type of Rig: ATV
Rig Model: Soil Scout
Drilling Method: Drive & Wash

Boring Location: N2969162.036 - E742794.063
Ground Surface Elev. (ft.): 48.9
Final Boring Depth (ft.): 25
Date Start - Finish: 8/30/2021 - 9/3/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)	SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	0-2	24	14	4 8 5 7	13	S-1: Medium dense, dark brown/black, fine to coarse SAND and GRAVEL, little Silt, trace Organics.	1				
5		S-2	4-6	24	7	17 30 13 7	43	S-2: Dense, tan/brown/dark brown, fine to coarse SAND and GRAVEL, some Silt.	2 3			FILL	
											7.5'		41.4'
10		S-3	9-11	24	12	13 29 25 60	54	S-3: Very dense, tan/brown/dark brown, fine to coarse SAND and GRAVEL, some Silt.					
15		S-4	14-16	24	10	32 35 47 70	82	S-4: Very dense, tan/brown/dark brown, fine to coarse SAND and GRAVEL, some Silt.				GLACIAL TILL	
20		S-5	18-20	24	14	12 44 49 62	93	S-5: Very dense, tan/brown, medium to fine SAND and GRAVEL, little Silt.	4				
25		S-6	24-25	12	3	54 100/6"	R	S-6: Very dense, gray/brown, medium to fine SAND and GRAVEL.	5		25'		23.9'
								Auger refusal at 25 feet.					
30													
35													
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. A cobble was encountered at 3 feet below ground surface (bgs) to approximately 4 feet bgs.
3. Grinding and color change observed (black to tan/brown) at 4 feet bgs.
4. Drilling advanced to a depth of approximately 16 feet bgs on 8/30/2021. Due to night work scheduled for 8/31/2021, driller elected to pull casing and backfill the boring with cuttings. Boring was continued on 9/3/2021 by advancing casing, through the backfilled borehole, to a depth of 18 feet, the next sample elevation.
5. Upon completion, the borehole was backfilled with soil cuttings to approximate ground surface.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandundertheconditionsstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W1-3

174493.00 BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/NE; 8/21/2024

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W1-4
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Chris Knight
Logged By: A. Lupo

Type of Rig: Truck
Rig Model: Volvo B-53
Drilling Method: Drive & Wash

Boring Location: N2969234.363 - E742861.413
Ground Surface Elev. (ft.): 46.6
Final Boring Depth (ft.): 21
Date Start - Finish: 9/2/2021 - 9/2/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 4"/4.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)	SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	0-2	24	16	5 6 9 7	15	S-1: Medium dense, dark brown with black, fine to coarse SAND and GRAVEL, little Silt, trace Organics.	1				
5		S-2	4-6	24	21	40 30 30 26	60	S-2: Very dense, brown, fine to medium SAND, some Gravel, little Silt.				FILL	
									2		7'		39.6'
10		S-3	9-11	24	7	10 27 25 24	52	S-3: Very dense, brown/gray, fine to medium SAND and GRAVEL, some Silt.					
15		S-4	14-16	24	8	20 36 28 26	64	S-4: Very dense, brown/gray, fine to medium SAND and GRAVEL, some Silty Clay.				GLACIAL TILL	
20		S-5	19-21	24	16	17 47 61 39	R	S-5: Very dense, brown/gray, fine to medium SAND and GRAVEL, some Silty Clay.			21'		25.6'
								Auger refusal at 21 feet.					
25													
30													
35													
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Slight drill chatter and change in wash color from brown to gray observed at approximately 7 feet bgs.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandundertheconditionsstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W1-4

174493.00 BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/NE; 8/21/2024

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609204_HD(BORING).DWG Plotted on Feb-25 12:57 PM

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W1-6
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Willy
Logged By: A. Lupo

Type of Rig: Truck
Rig Model: Vacuum
Drilling Method: N/A

Boring Location: N2969197.97 - E742729.36
Ground Surface Elev. (ft.): 70.1
Final Boring Depth (ft.): 6
Date Start - Finish: 9/14/2021 - 9/14/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Uncased
I.D/O.D.(in): N/A
Hammer Weight (lb.): N/A
Hammer Fall (in.): N/A
Other: N/A

Sampler Type: N/A
I.D./O.D. (in.): N/A
Sampler Hmr Wt (lb): N/A
Sampler Hmr Fall (in): N/A
Other: N/A

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	0-2	Grab				S-1: (Top 9") Gray/dark gray, ASPHALT.	1		1'	ASPHALT	69.1'
								S-1: (Bottom 15") Gray/tan, fine to coarse SAND and GRAVEL, trace Silt.	2				
		S-2	3-4	Grab				S-2: Brown, SAND and GRAVEL, little Silt.				FILL	
5		S-3	4-6	Grab				S-3: Brown/dark brown, SAND and GRAVEL, little Silt, trace (-) Organics.			6'		64.1'
								Auger refusal at 6 feet.	3				
10													
15													
20													
25													
30													
35													
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring vacuum excavated to a depth of approximately 6 feet below ground surface (bgs) to clear for utilities on 9/14/2021. Soil excavated was visually classified based on grab samples from the vacuum excavation and sidewalls of the boring. The boring was backfilled with the excavated soil upon completion of the vacuum excavation.
3. Upon completion, borehole backfilled with soil cuttings and asphalt cold patch to approximate ground surface.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandundertheconditionsstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W1-6

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W3-2
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Mientkiewicz
Logged By: A. Lupo

Type of Rig: ATV
Rig Model: Soil Scout
Drilling Method: Drive & Wash

Boring Location: N2969521.778 - E745569.809
Ground Surface Elev. (ft.): 29.5
Final Boring Depth (ft.): 36
Date Start - Finish: 8/23/2021 - 8/24/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	1-3	Grab				S-1: Dark brown, fine to coarse SAND and GRAVEL, trace Silt, trace (-) Organics.	1 2 3				
5		S-2	4-6	Grab				S-2: Tan/brown/dark brown/black, fine to medium SAND, some Gravel, trace Silt, trace Organics.				FILL	
10		S-3	9-11	24	16	1 1 1/12"	R	S-3: Very loose, tan/dark brown, fine to medium SAND, little Gravel, trace Silt, trace (-) Organics.			12.5'		17.0'
15		S-4	14-16	24	20	10 18 21 24	39	S-4: Hard, tan/brown/gray, Clayey SILT, trace fine Sand.				CLAYEY SILT	
20		S-5	19-21	24	18	6 8 8 10	16	S-5: Very stiff, tan/brown, Clayey SILT.			22.5'		7.0'
25		S-6	24-26	24	24	3 3 12 11	15	S-6: Stiff, tan/brown/gray, Silty CLAY, little fine Sand.					
30		S-7	29-31	24	24	14 9 6 6	15	S-7: Stiff, tan/brown/gray, Silty CLAY, little fine Sand, trace Gravel.				SILTY CLAY	
35		S-8	34-36	24	24	WOR/24"		S-8: Very soft, gray, Silty CLAY.	4		36'		-6.5'
								Auger refusal at 36 feet.					
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring vacuum excavated to a depth of approximately 6 feet below ground surface (bgs) to clear for utilities on 8/23/2021. Soil excavated was visually classified based on grab samples from the vacuum excavation and sidewalls of the boring. The boring was backfilled with the excavated soil upon completion of the vacuum excavation.
3. Boring was advanced using cased drilling methods to a depth of approximately 21 feet bgs. Boring advanced open hole thereafter.
4. Upon completion, borehole backfilled with soil cuttings to approximate ground surface.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandundertheconditionsstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W3-2

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174493.00 BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/N/E; 8/21/2024

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W3-3
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Mientkiewicz
Logged By: A. Lupo

Type of Rig: ATV
Rig Model: Soil Scout
Drilling Method: Drive & Wash

Boring Location: N2969519.156 - E745839.108
Ground Surface Elev. (ft.): 28.1
Final Boring Depth (ft.): 36
Date Start - Finish: 8/23/2021 - 8/23/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	1-3	Grab				S-1: Dark brown, SAND and GRAVEL, trace Silt, trace Organics, dry.	1 2 3				
5		S-2	4-6	Grab				S-2: Brown/dark brown, fine to medium SAND, little Gravel, little Silt, trace Organics, dry.				FILL	
											7.5'		20.6'
10		S-3	9-11	24	19	3 1 3 6	4	S-3: Soft, brown/dark brown/black, Clayey SILT, little Gravel, trace fine Sand, trace (-) Organics, moist.	4			CLAYEY SILT	
15		S-4	14-16	24	22	5 9 14 16	23	S-4: Very stiff, tan/gray, Clayey SILT, wet.			17.5'		10.6'
20		S-5	19-21	24	24	3 5 5 6	10	S-5: Stiff, tan/gray, Silty CLAY, wet.					
25		S-6	24-26	24	24	WOR WOR 3 3	3	S-6: Soft, gray, CLAY & SILT, wet.				CLAY AND SILT	
30		S-7	29-31	24	24	WOR/24"		S-7: Very soft, gray, CLAY & SILT, wet.					
35		S-8	34-36	24	18	WOR/24"		S-8: Very soft, gray, CLAY & SILT, wet.	5		36'		-7.9'
								Auger refusal at 36 feet.					
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring vacuum excavated to a depth of approximately 6 feet below ground surface (bgs) to clear for utilities on 8/23/2021. Soil excavated was visually classified based on grab samples from the vacuum excavation and sidewalls of the boring. The boring was backfilled with the excavated soil upon completion of the vacuum excavation.
3. Boring was advanced using cased drilling methods to a depth of approximately 11 feet bgs. Boring advanced open hole thereafter.
4. Change in wash color from tan to gray at approximately 12 feet bgs.
5. Upon completion, borehole backfilled with soil cuttings to approximate ground surface.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandundertheconditionsstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W3-3

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W3-4
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Mientkiewicz
Logged By: A. Lupo

Type of Rig: ATV
Rig Model: Soil Scout
Drilling Method: Drive & Wash

Boring Location: N2969592.5426 - E745636.2267
Ground Surface Elev. (ft.): 22.1
Final Boring Depth (ft.): 31
Date Start - Finish: 8/31/2021 - 9/1/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	0-2	Grab				S-1: Brown/dark brown, fine to coarse SAND and GRAVEL, little Silt, trace (+) Organics.	1 2 3				
5		S-2	4-6	Grab				S-2: Brown,dark brown, fine to coarse SAND and GRAVEL, some Silt, trace (-) Organics.				FILL	
									4		7.5'		14.6'
10		S-3	9-11	24	14	4 6 8 10	14	S-3: Stiff, tan/brown, Clayey SILT.				CLAYEY SILT	
											12.5'		9.6'
15		S-4	14-16	24	14	3 3 6 5	9	S-4: Stiff, tan/brown/gray, Silty CLAY.					
20		S-5	19-21	24	19	3 5 11 12	16	S-5: Very stiff, tan/brown/gray, Silty CLAY.				SILTY CLAY	
25		U-6	24-26	24	24	Push/24"	R	U-6: Gray, Silty CLAY.					
30		U-7	29-31	24	24	Push/24"	R	U-7: Gray, Silty CLAY.			31'		-8.9'
								Auger refusal at 31 feet.	5				
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring vacuum excavated to a depth of approximately 5.5 feet below ground surface (bgs) to clear for utilities on 8/23/2021. Soil excavated was visually classified based on grab samples from the vacuum excavation and sidewalls of the boring. The boring was backfilled with the excavated soil upon completion of the vacuum excavation.
3. Boring was advanced using cased drilling methods to a depth of approximately 11 feet bgs. Boring advanced open hole thereafter.
4. Grinding and color change observed (dark brown to tan) at 6 to 7 feet bgs.
5. Upon completion, borehole backfilled with soil cuttings to approximate ground surface.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandundertheconditionsstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W3-4

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STRATUM ONLY W/O SMPL W/N/E; 8/21/2024
174493.00 BELMONT COMMUNITY PATH.GPJ;
609204_HD(BORING).DWG Plotted on Feb-25 12:57 PM

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W3-5
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Mientkiewicz
Logged By: A. Lupo

Type of Rig: ATV
Rig Model: Soil Scout
Drilling Method: Drive & Wash

Boring Location: N2969525.978 - E745474.021
Ground Surface Elev. (ft.): 30.5
Final Boring Depth (ft.): 31
Date Start - Finish: 8/24/2021 - 8/24/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	0-2	Grab				S-1: Black, fine to coarse SAND and GRAVEL, little Silt, trace (-) Organics, moist.	1 2 3				
5		S-2	4-6	Grab				S-2: Black, fine to coarse SAND and GRAVEL, little Silt, trace (-) Organics, moist.	4 5			FILL	
10		S-3	9-11	24	3	3 3 12 10	15	S-3: Medium dense, gray, fine to medium SAND, some Gravel, little Silt, trace (-) Organics.			12.5'		18.0'
15		S-4	14-16	24	16	7 12 17 22	29	S-4: Very stiff, tan/brown/gray, Clayey SILT, trace fine Sand.					
20		S-5	19-21	24	20	7 8 15 12	23	S-5: Very stiff, tan/brown/gray, Silty CLAY, trace fine Sand.				SILTY CLAY	
25		S-6	24-26	24	24	8 6 10 11	16	S-6: (Top 12") Stiff, tan/brown/gray, Silty CLAY, trace fine Sand. S-6: (Bottom 12") Tan/brown/gray, Silty CLAY.			28'		2.5'
30		S-7	29-31	24	41	14 17 20 24	37	S-7: Dense, tan/brown, fine SAND, some Silt.			31'	SAND	-0.5'
35								Auger refusal at 31 feet.	6				
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring vacuum excavated to a depth of approximately 6 feet below ground surface (bgs) to clear for utilities on 8/23/2021. Soil excavated was visually classified based on grab samples from the vacuum excavation and sidewalls of the boring. The boring was backfilled with the excavated soil upon completion of the vacuum excavation.
3. Boring was advanced using cased drilling methods to a depth of approximately 16 feet bgs. Boring advanced open hole thereafter.
4. Grinding observed at 5 feet bgs.
5. Color change observed at 7 feet bgs from tan to dark gray.
6. Upon completion, borehole backfilled with soil cuttings to approximate ground surface.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandundertheconditionsstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W3-5

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W4-1
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Mientkiewicz
Logged By: A. Lupo

Type of Rig: ATV
Rig Model: Soil Scout
Drilling Method: Drive & Wash

Boring Location: N2969527.189 - E743972.135
Ground Surface Elev. (ft.): 41.4
Final Boring Depth (ft.): 36
Date Start - Finish: 8/25/2021 - 8/25/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	1-3	Grab				S-1: Brown/dark brown, fine to coarse SAND and GRAVEL, trace Silt, trace (-) Organics, dry.	1 2 3				
5		S-2	4-6	Grab				S-2: Brown/dark brown, fine to coarse SAND, some Gravel, trace Silt, dry.				FILL	
10		S-3	9-11	24	6	7 5 7 10	12	S-3: Medium dense, brown/dark brown, fine to medium SAND, some Silt, little Gravel, trace (-) Organics, moist.			12.5'		28.9'
15		S-4	14-16	24	4	24 32 31 42	63	S-4: Very dense, brown/dark brown, fine to coarse SAND and GRAVEL, some Silt, wet.					
20		S-5	19-21	24	12	24 16 21 17	37	S-5: Dense, tan/brown/dark brown/black, fine to medium SAND, some Gravel, trace Silt, wet.				SAND	
25		S-6	24-26	24	14	16 15 20 24	35	S-6: Dense, tan/brown, fine to medium SAND, little Silt, wet.					
30		S-7	29-31	24	16	10 15 16 19	31	S-7: Dense, tan/brown/dark brown/red, fine to medium SAND, little Silt, wet.	4		32.5'		8.9'
35		S-8	34-36	24	24	3 4 6 6	10	S-8: Stiff, gray, Silty CLAY, wet.			36'	CLAY	5.4'
40								Auger refusal at 36 feet.					

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring vacuum excavated to a depth of approximately 6 feet below ground surface (bgs) to clear for utilities on 8/23/2021. Soil excavated was visually classified based on grab samples from the vacuum excavation and sidewalls of the boring. The boring was backfilled with the excavated soil upon completion of the vacuum excavation.
3. Boring was advanced using cased drilling methods to a depth of approximately 9 feet bgs. Boring advanced open hole thereafter.
4. Upon completion, borehole backfilled with soil cuttings to approximate ground surface.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandundertheconditionsstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W4-1

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(BORING).dwg 2/7/2025 12:57 PM
174493.00 BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/N/E; 8/21/2024
609204_HD(BORING).DWG Plotted on Feb-25 12:57 PM

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W5-2
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Micnkiecqicz
Logged By: A. Lupo

Type of Rig: ATV
Rig Model: Strata Star 5
Drilling Method: Drive & Wash

Boring Location: N2969505.436 - E747762.673
Ground Surface Elev. (ft.): 12.9
Final Boring Depth (ft.): 21
Date Start - Finish: 9/9/2021 - 9/9/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)	SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	0-2	24	8	4 4 4 4	8	S-1: Loose, brown to dark brown, fine to coarse SAND and GRAVEL, little Silt, trace Organics.	1 2		1'	TOPSOIL	11.9'
5		S-2	4-6	24	6	4 3 2 1	5	S-2: Loose, brown, fine to coarse SAND and GRAVEL, little Silt, trace (-) Roots, trace (-) Brick.			7'	FILL	5.9'
10		S-3	9-11	24	24	4 6 9 10	15	S-3: Stiff, brown with gray, Clayey SILT.					
15		S-4	14-16	24	24	1 2 3 4	5	S-4: Medium stiff, gray, Silty CLAY.				SILTY CLAY	
20		S-5	19-21	24	24	WOR/18" 3		S-4: Very soft, gray, Silty CLAY.			21'		-8.1'
25								Auger refusal at 21 feet.	3				
30													
35													
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring was advanced using cased drilling methods to a depth of approximately 9 feet bgs. Boring advanced open hole thereafter.
3. Upon completion, borehole backfilled with soil cuttings to approximate ground surface.

See Log Key for explanation of sampled description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W5-2

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W5-6
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Micnkiecqicz
Logged By: A. Lupo

Type of Rig: ATV
Rig Model: Strata Star 5
Drilling Method: Drive & Wash

Boring Location: N2969503.426 - E748162.314
Ground Surface Elev. (ft.): 14.0
Final Boring Depth (ft.): 26
Date Start - Finish: 9/8/2021 - 9/8/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)	SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	0-2	24	12	4 4 22 7	26	S-1: Medium dense, brown, fine to coarse SAND and GRAVEL, little Silt, trace Organics.	1 2		1'	TOPSOIL	13.0'
5		S-2	4-6	24	4	5 3 1 1	4	S-2: Loose, brown, fine to coarse SAND and GRAVEL, little Silt, trace (-) Organics.				FILL	
10		S-3	9-11	24	22	7 10 10 13	20	S-3: Very stiff, brown, Clayey SILT, trace fine Sand.	3		8'		6.0'
15		S-4	14-16	24	24	2 2 4 4	6	S-4: Medium stiff, gray, Silty CLAY.				SILTY CLAY	
20		S-5	19-21	24	24	1 1 2 3	3	S-5: Soft, gray, Silty CLAY.					
25		S-6	24-26	24	24	WOR WOR 1 1	1	S-6: Very soft, gray, Silty CLAY.			26'		-12.0'
								Auger refusal at 26 feet.	4				
30													
35													
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring was advanced using cased drilling methods to a depth of approximately 11 feet bgs. Boring advanced open hole thereafter.
3. Change in wash color from brown to gray observed at approximately 8 feet bgs.
4. Upon completion, borehole backfilled with soil cuttings to approximate ground surface.

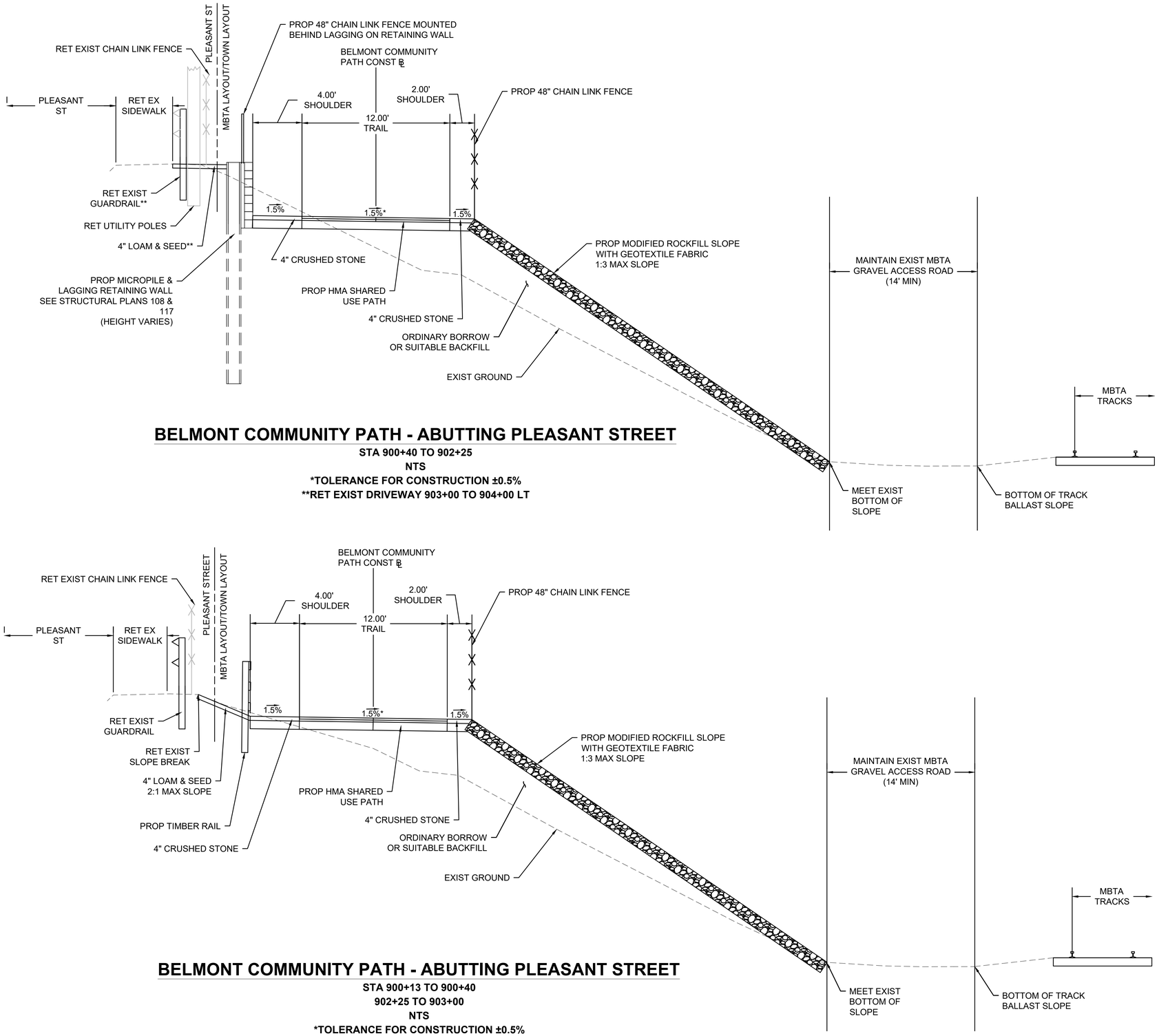
See Log Key for explanation of sampled description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W5-6

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174493.00 BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/N/E; 8/21/2024

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	14	186
PROJECT FILE NO.	609204		

TYPICAL SECTIONS & PAVEMENT NOTES



BELMONT COMMUNITY PATH - ABUTTING PLEASANT STREET

STA 900+40 TO 902+25
NTS
***TOLERANCE FOR CONSTRUCTION ±0.5%**
****RET EXIST DRIVEWAY 903+00 TO 904+00 LT**

BELMONT COMMUNITY PATH - ABUTTING PLEASANT STREET

STA 900+13 TO 900+40
902+25 TO 903+00
NTS
***TOLERANCE FOR CONSTRUCTION ±0.5%**

PAVEMENT NOTES:

PROPOSED HMA SHARED USE PATH

SURFACE: 1.5" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER
INTERMEDIATE: 2.5" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)

SUBASE 8" GRAVEL BORROW, TYPE b*

PROPOSED HMA SIDEWALK

SURFACE: 1.25" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER
INTERMEDIATE: 1.75" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)

SUBASE 8" GRAVEL BORROW, TYPE b*

PROPOSED CEMENT CONCRETE SIDEWALK/PCR

SURFACE: 4" CEMENT CONCRETE SIDEWALK (AIR ENTRAINED 4000 PSI, $\frac{3}{4}$", 610)

SUBBASE: 8" GRAVEL BORROW, TYPE b*

PROPOSED HOT MIX ASPHALT DRIVEWAY

SURFACE: 1.5" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER
INTERMEDIATE: 2.50" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)

SUBBASE: 8" GRAVEL BORROW, TYPE b*

PROPOSED CEMENT CONCRETE SIDEWALK AT DRIVEWAY/ISLAND

SURFACE: 6" CEMENT CONCRETE SIDEWALK (AIR ENTRAINED 4000 PSI, $\frac{3}{4}$", 610)

SUBBASE: 8" GRAVEL BORROW, TYPE b*

PROPOSED PAVEMENT MILLING & OVERLAY - FINAL SURFACE COURSE

SURFACE: 1.75" SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC-12.5-P) OVER ASPHALT EMULSION FOR TACK COAT OVER

INTERMEDIATE: 1.75" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5) OVER ASPHALT EMULSION FOR TACK COAT OVER PAVEMENT MILLING SURFACE

PROPOSED FULL DEPTH PAVEMENT

SURFACE: 1.75" SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC-12.5-P) OVER ASPHALT EMULSION FOR TACK COAT OVER
INTERMEDIATE: 1.75" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5) OVER ASPHALT EMULSION FOR TACK COAT OVER

BASE: 4.00" SUPERPAVE BASE COURSE - 37.5 (SBC-37.5) OVER

SUBBASE: 4" DENSE GRADED CRUSHED STONE FOR SUBBASE OVER 8" GRAVEL BORROW, TYPE b*

*EXISTING GRAVEL BORROW TYPE MEETING CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL BE RETAINED FOR USE ON SITE AS PROVIDED IN THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES.

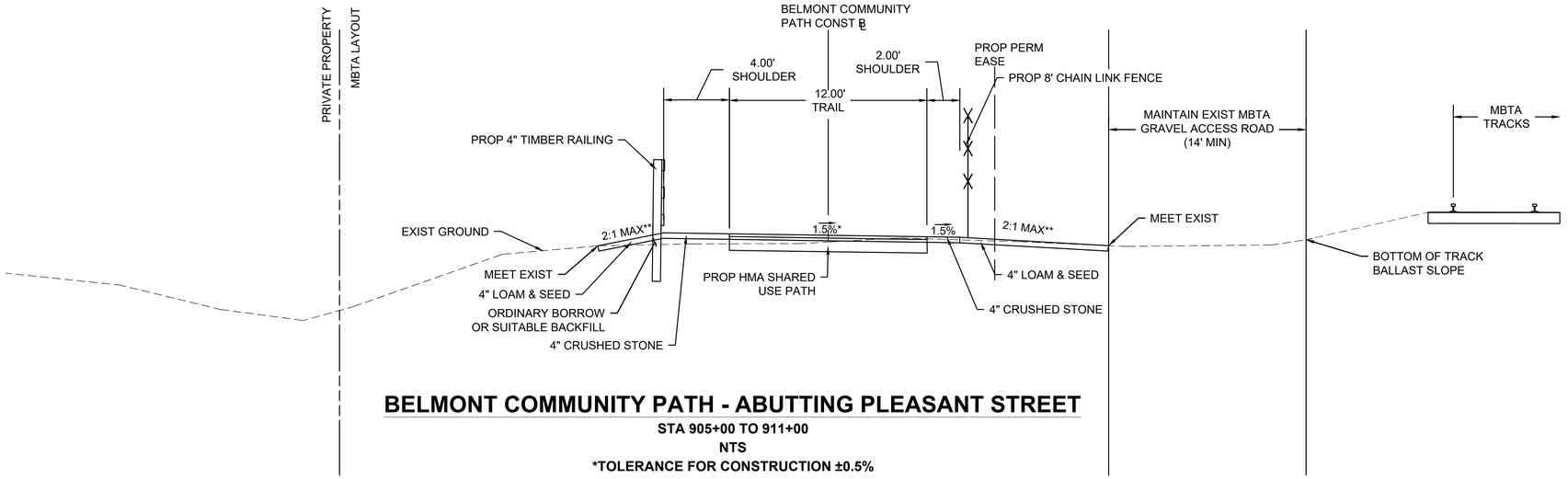
NOTES:
1. EMBANKMENT AND BACKFILL SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
2. ALL HOT MIX ASPHALT SHALL BE IN ACCORDANCE WITH SECTION 450 HOT MIX ASPHALT PAVEMENT AND SECTION M3 ASPHALTIC MATERIALS LATEST EDITION.

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

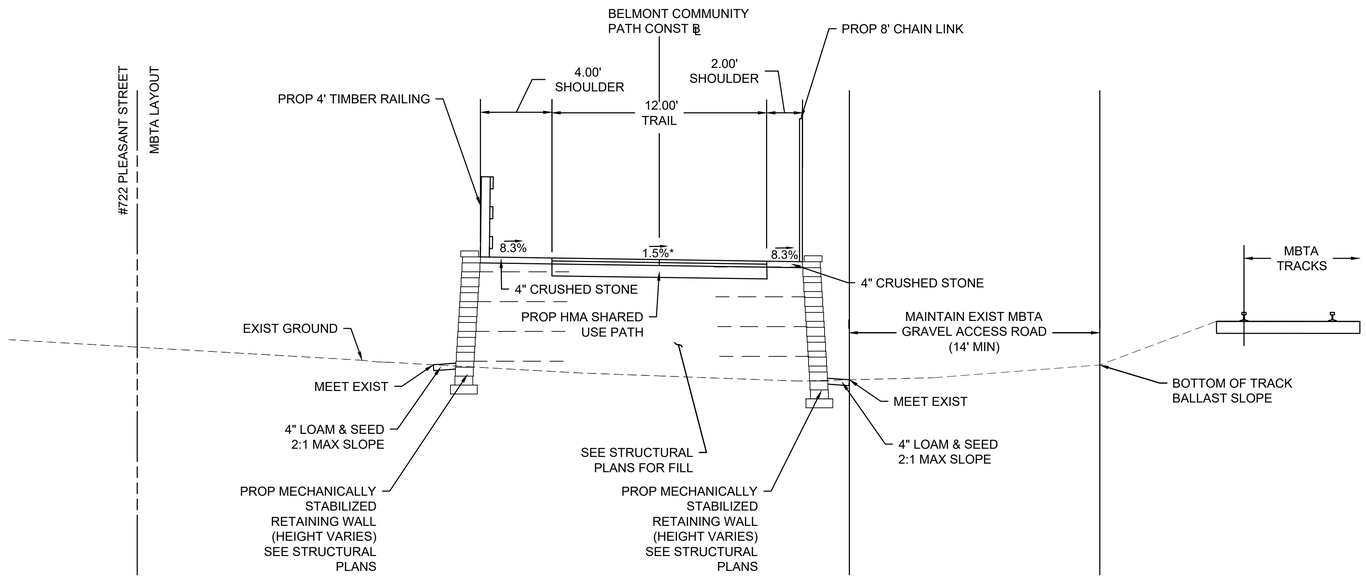
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	15	186
PROJECT FILE NO.	609204		

TYPICAL SECTIONS & PAVEMENT NOTES



BELMONT COMMUNITY PATH - ABUTTING PLEASANT STREET

STA 905+00 TO 911+00
NTS
***TOLERANCE FOR CONSTRUCTION ±0.5%**
****MODIFIED ROCKFILL SLOPE, 1:1 MAX SLOPE FROM 905+00 TO 906+00 LT/RT**



BELMONT COMMUNITY PATH - ABUTTING PLEASANT STREET

STA 903+00 TO 905+00**
NTS
***TOLERANCE FOR CONSTRUCTION ±0.5%**
****WALL ON LT BEGINS STA 903+25**

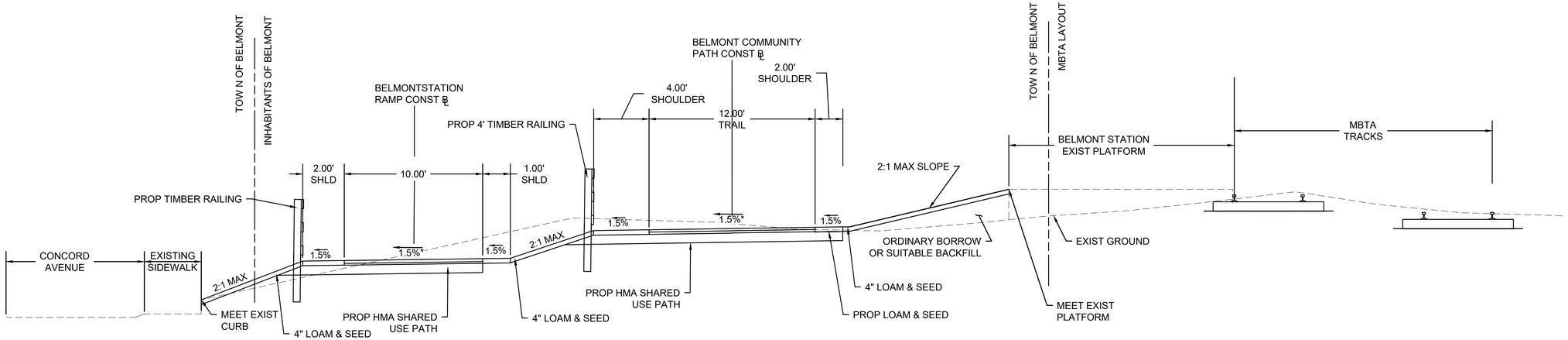
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

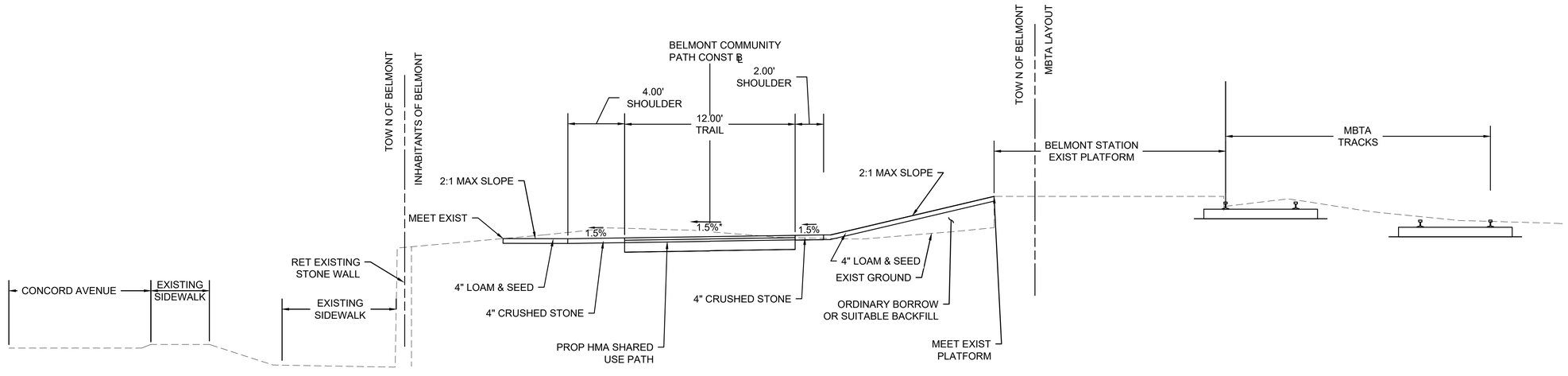
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	16	186
PROJECT FILE NO.	609204		

TYPICAL SECTIONS & PAVEMENT NOTES



BELMONT COMMUNITY PATH - BELMONT STATION

STA 912+50 TO 914+15
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**



BELMONT COMMUNITY PATH - BELMONT STATION

STA 911+00 TO 912+50
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**

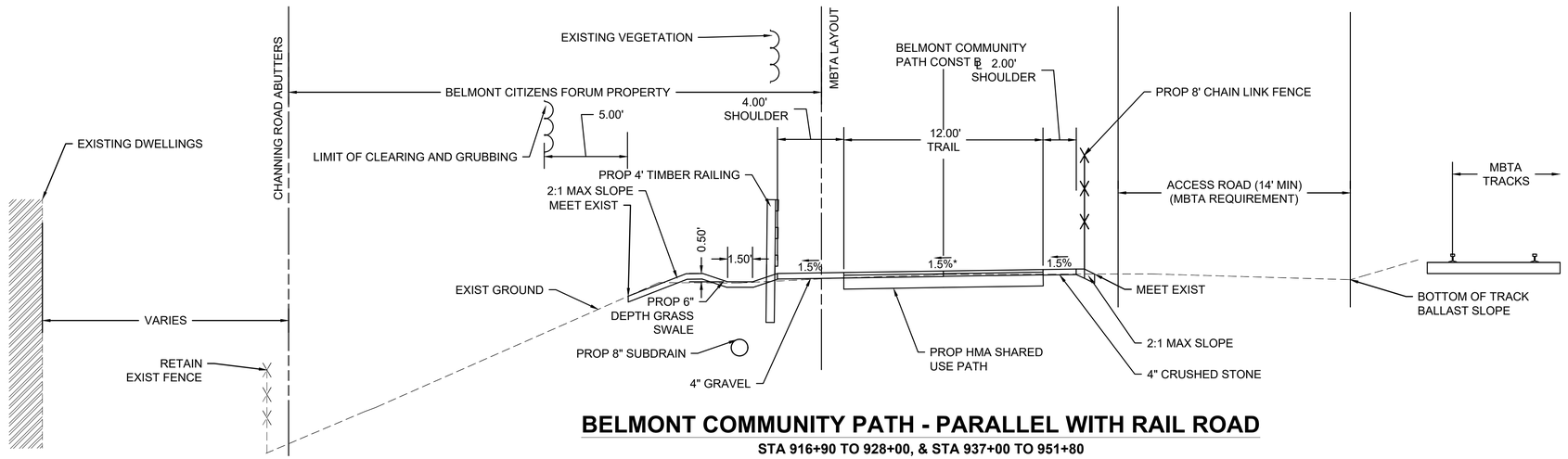
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

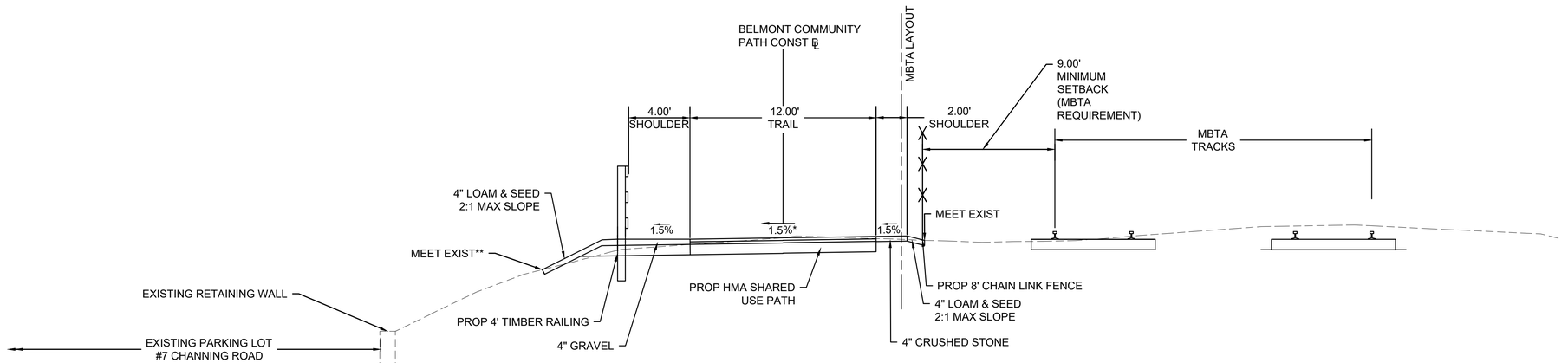
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	17	186
PROJECT FILE NO.	609204		

TYPICAL SECTIONS & PAVEMENT NOTES



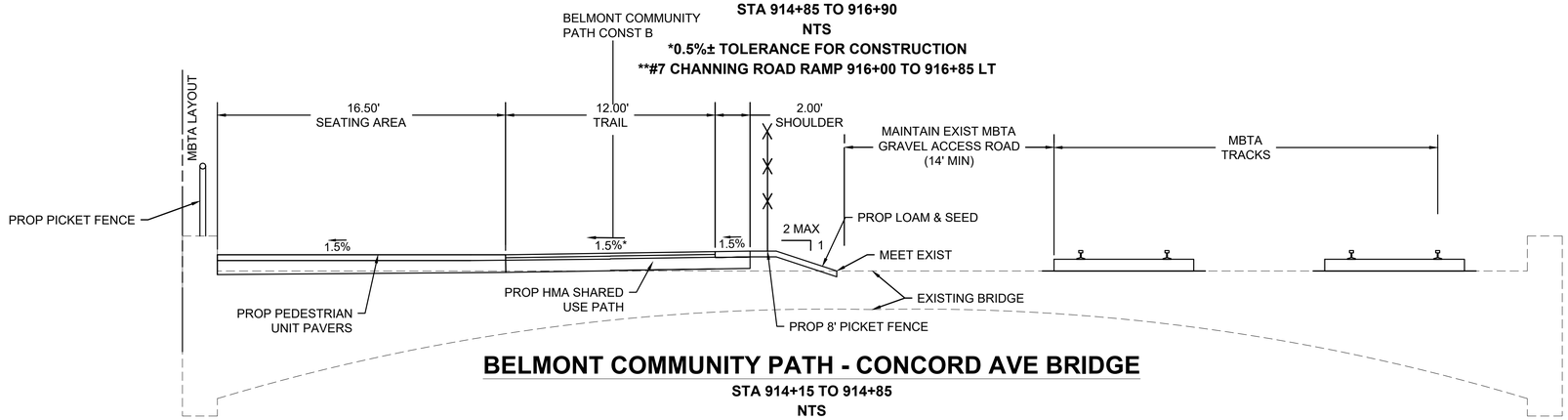
BELMONT COMMUNITY PATH - PARALLEL WITH RAIL ROAD

STA 916+90 TO 928+00, & STA 937+00 TO 951+80
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**



BELMONT COMMUNITY PATH - #7 CHANNING ROAD

STA 914+85 TO 916+90
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**
****#7 CHANNING ROAD RAMP 916+00 TO 916+85 LT**



BELMONT COMMUNITY PATH - CONCORD AVE BRIDGE

STA 914+15 TO 914+85
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**

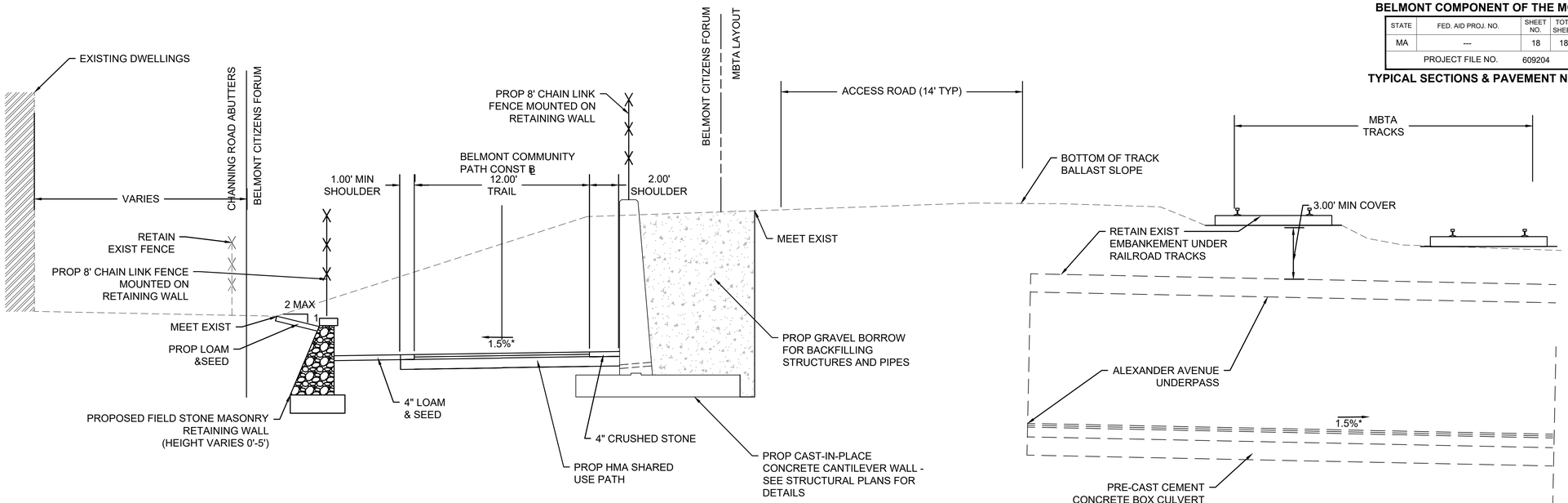
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

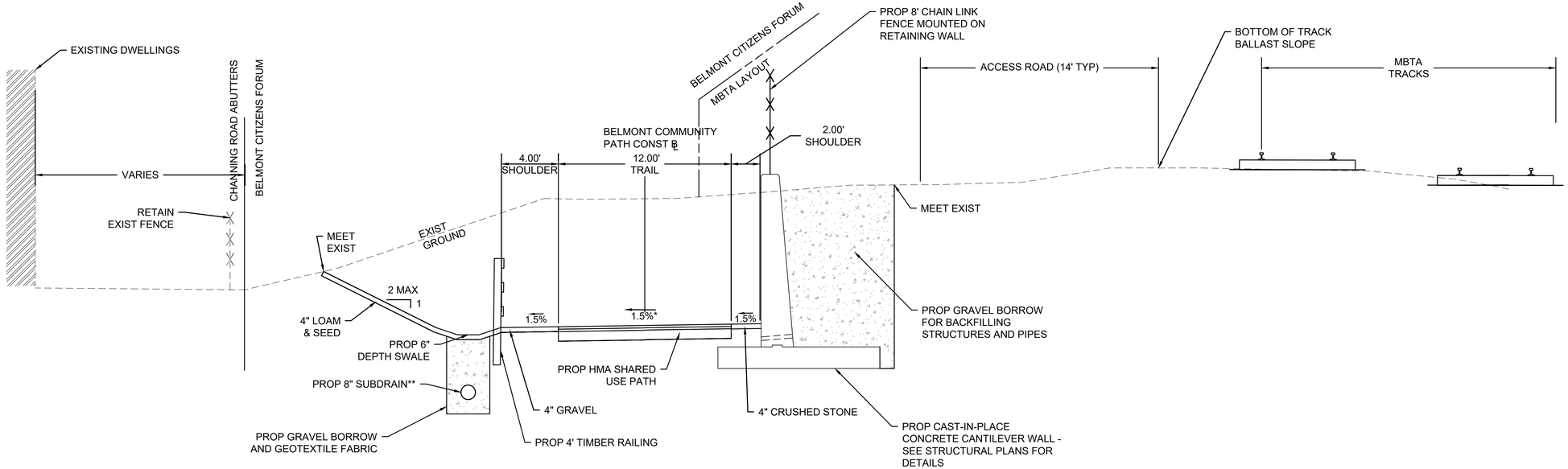
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	18	186
PROJECT FILE NO.	609204		

TYPICAL SECTIONS & PAVEMENT NOTES



BELMONT COMMUNITY PATH

STA 931+07 TO 932+83
STA 933+65 TO 935+15
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**



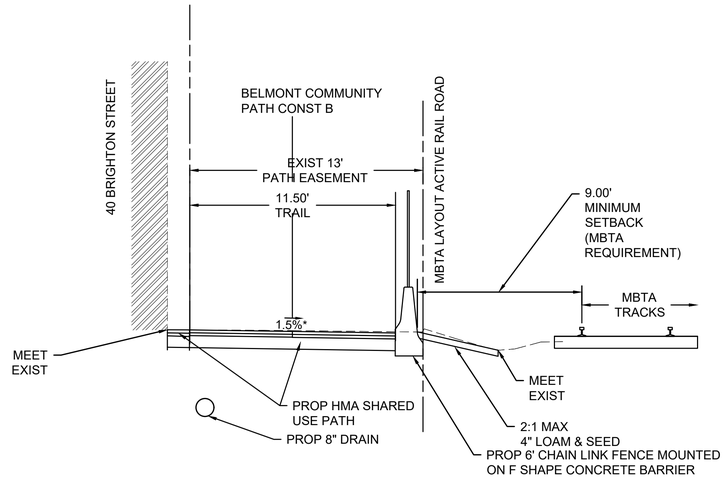
BELMONT COMMUNITY PATH

STA 928+00 TO 931+07
935+15 TO 937+50**
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**
****SUBDRAIN BEGINS STA 935+73**

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609204_HD(TYPSECT).DWG Plotted on Feb-25 12:57 PM

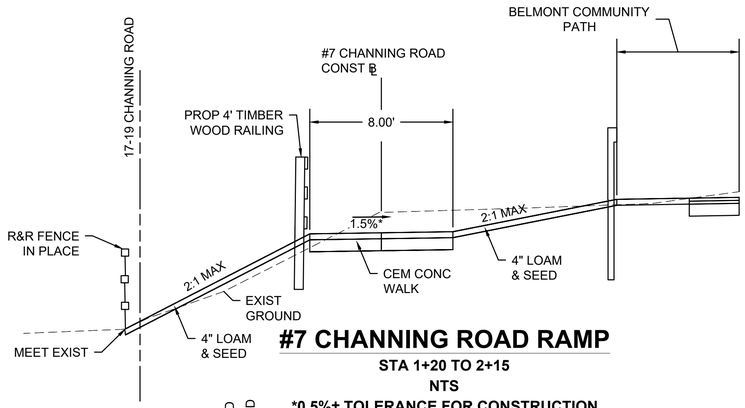
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	19	186
PROJECT FILE NO.	609204		

TYPICAL SECTIONS & PAVEMENT NOTES



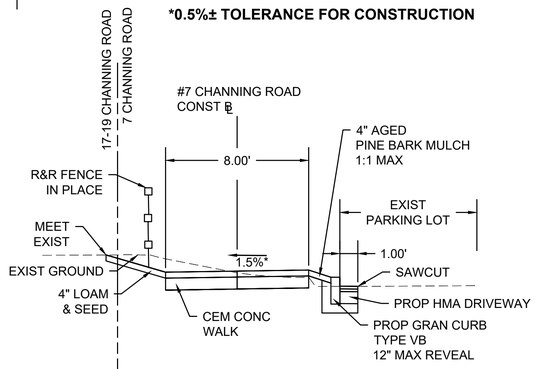
BELMONT COMMUNITY PATH - 40 BRIGHTON STREET ABUTTING BUILDING

STA 955+68.83 TO 956+56.17
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**



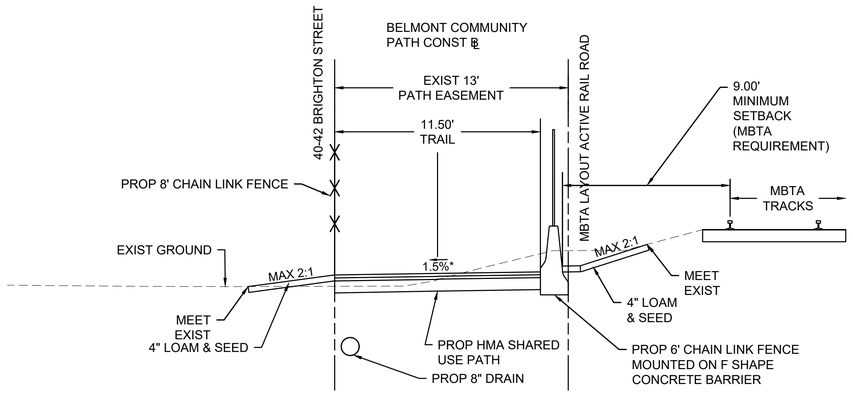
#7 CHANNING ROAD RAMP

STA 1+20 TO 2+15
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**



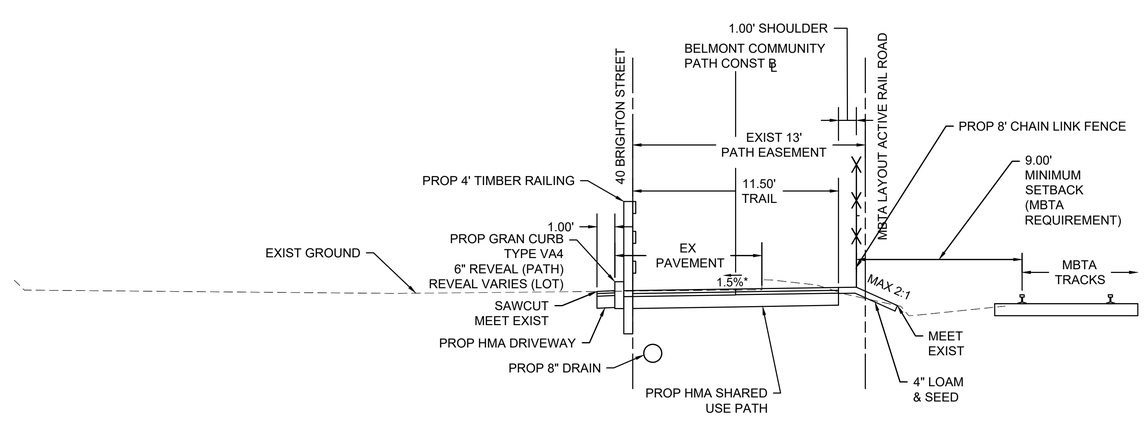
#7 CHANNING ROAD RAMP

STA 0+00 TO 1+20
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**



BELMONT COMMUNITY PATH - 40 BRIGHTON STREET

STA 951+80 TO 955+69.68
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**



BELMONT COMMUNITY PATH - 40 BRIGHTON STREET ABUTTING PARKING

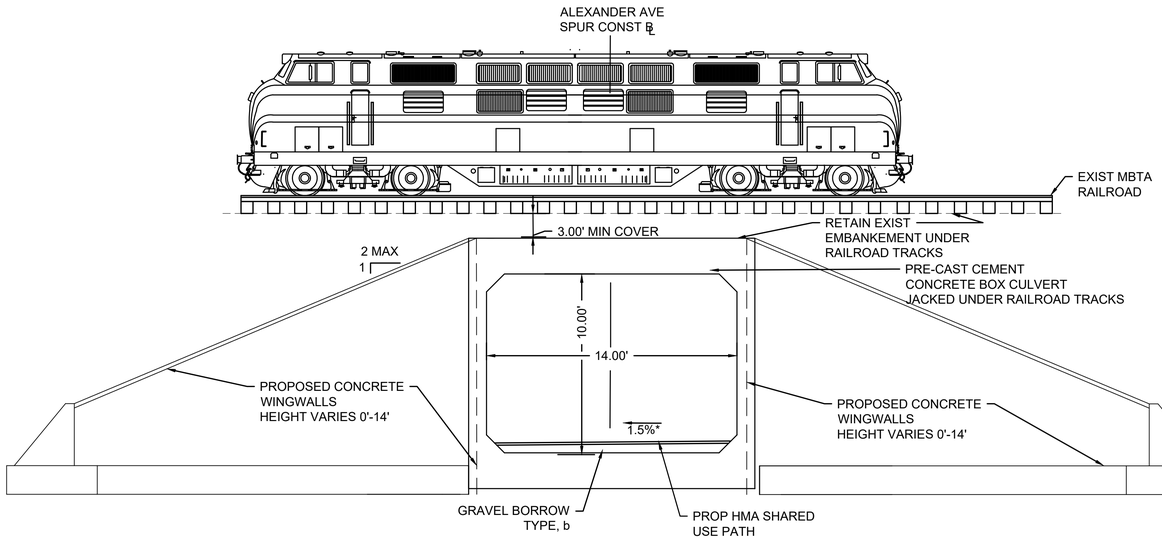
STA 956+56.17 TO 959+33
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(TYPSECT).dwg 2/7/2025 12:57 PM

609204_HD(TYPSECT).DWG Plotted on Feb-25 12:57 PM

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	20	186
PROJECT FILE NO.	609204		

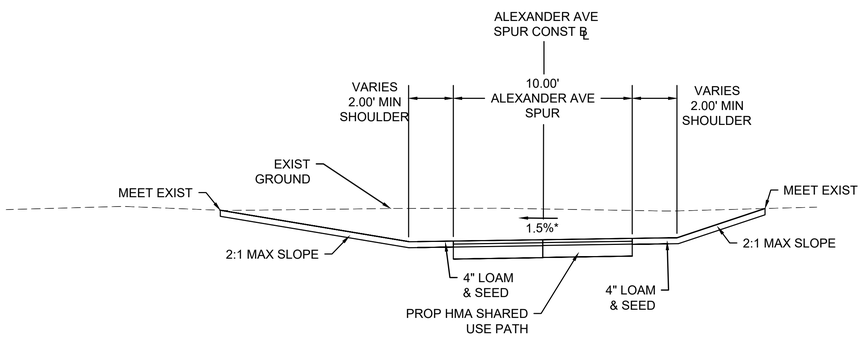
TYPICAL SECTIONS & PAVEMENT NOTES



ALEXANDER AVENUE SPUR - UNDERPASS SECTION

502+15 TO 502+85

***0.5%± TOLERANCE FOR CONSTRUCTION**

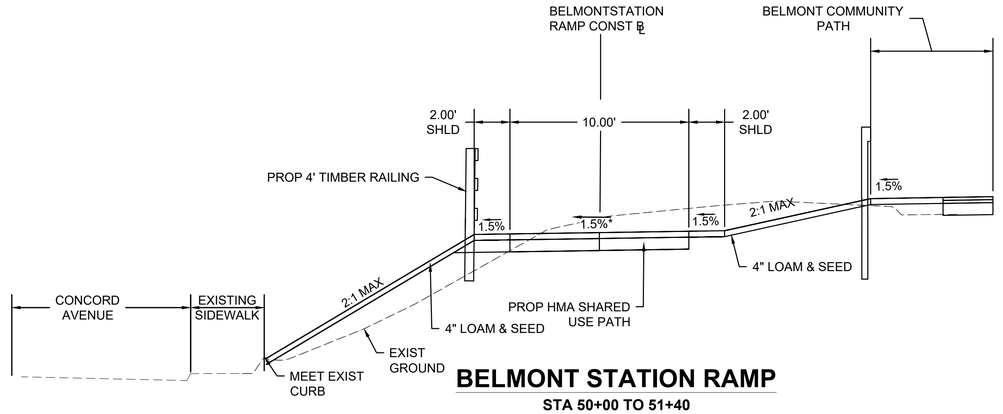


ALEXANDER AVENUE SPUR

501+25 TO 502+15

502+85 TO 504+05

***0.5%± TOLERANCE FOR CONSTRUCTION**

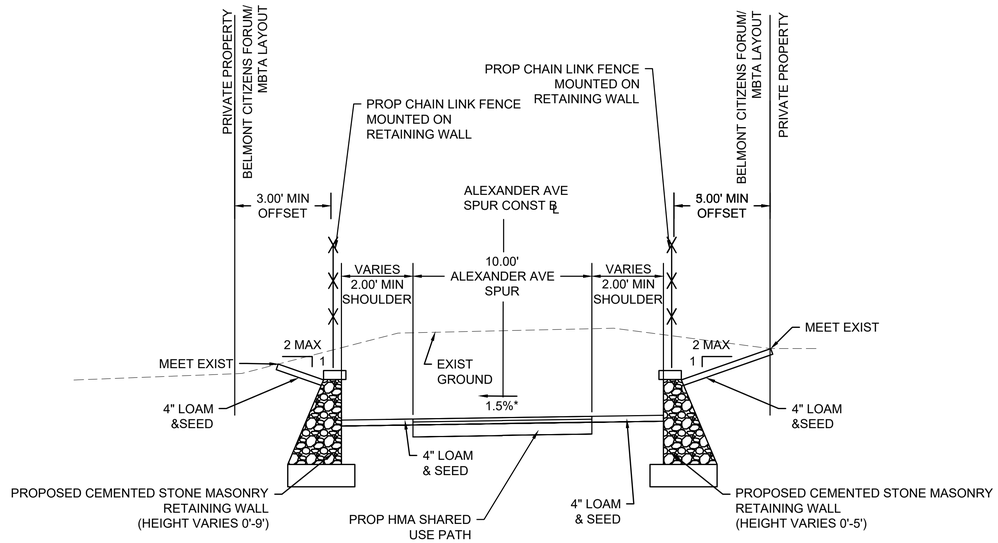


BELMONT STATION RAMP

STA 50+00 TO 51+40

NTS

***0.5%± TOLERANCE FOR CONSTRUCTION**



ALEXANDER AVENUE SPUR

501+25 TO 502+15

502+85 TO 504+05

***0.5%± TOLERANCE FOR CONSTRUCTION**

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(TYPSECT).dwg 2/7/2025 12:57 PM
609204_HD(TYPSECT).DWG Plotted on Feb-25 12:57 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	21	186
PROJECT FILE NO.	609204		

BASELINE TIES PLAN

PLEASANT STREET

N32°52'59"E 1,042.94'

65
N: 2968936.741'
E: 742571.775'
EL: 73.010'
MAG

64
N: 2969153.337'
E: 742709.844'
EL: 71.407'
DHL

EXIST TOWN LAYOUT

722 PLEASANT ST
N/F
OKUGAWA TE HIROSHI
BK. 62586 PG. 531
PID 31-3

S32°30'56"W 256.86'

726 PLEASANT ST
N/F
MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 0113
PID 31-2

N32°52'59"E 1,037.93'

PC +21.98

S84°21'33"W 5.90'

N45°51'13"E 209.90'

PT +88.10

+38.59

N35°58'40"W 3.47'

44.80' S57°07'01"E

PROP TEMP EASEMENT
PROP PERM EASEMENT
PROPERTY LINE

PROJECT BEGIN
STA 900+00
N2968925.2025
E742583.2066

900+00

42.35' S57°07'01"E

N42°23'21"E 123.87'

80
N: 2969028.230'
E: 742655.284'
EL: 64.878'
STN

81
N: 2969174.424'
E: 742805.900'
EL: 50.718'
STN

N45°20'49"E 25.71'

N33°54'11"E 97.07'

R=1327.39'

R=1103.44' L=514.60'

N52°03'04"E 186.14'

L17

R=1367.73'

PROP PERM EASEMENT

726R PLEASANT ST
N/F
MASSACHUSETTS BAY TRANS AUTHORITY
BK. 13117 PG. 0113
PID 31-2-A

MBTA FITCHBURG LINE

PROP TEMP EASEMENT
PROP PERM EASEMENT

226.35' S51°20'17"E

CLARK STREET

PROP TEMP EASEMENT

N36°44'24"E 133.03'
N36°13'17"E 42.94'
N36°14'17"E 19.20'
N36°43'54"E 150.14'
N43°54'09"E 132.18'

MBTA LAYOUT

N40°00'07"E 48.85'
N49°27'41"E 78.72'

82
N: 2969288.894'
E: 742952.684'
EL: 46.769'
STN

CONTINUED BELOW LEFT

0 20 50 100
SCALE: 1" = 20'

710 PLEASANT ST
N/F
GRACE TR ANNE ELVINS
BK. 13566 PG. 0601
PID 31-4

692 PLEASANT ST
N/F
BUELL TE IAN
BK. 65308 PG. 117
PID 31-5-6

460 CONCORD AVE
N/F
INHABITANTS OF BELMONT
11968 PG. 264
PID 31-1-B

450 CONCORD AVE
N/F
INHABITANTS OF BELMONT
BK. 129 PG. 429
PID 31-1-C

440 CONCORD AVE
N/F
INHABITANTS OF BELMONT
BK. 11844 PG. 495
PID 31-7

726R PLEASANT ST
N/F
MASSACHUSETTS BAY TRANS AUTHORITY
BK. 13117 PG. 0113
PID 31-2-A

R=1103.44' L=514.60'

CONTINUED ABOVE RIGHT

R=1367.73'

N31°40'08"W 5.03'

906
PC +96.78

907
C19
908

R=790.67'

N64°36'36"E 227.75'

N50°39'06"E 129.63'

45.32' S86°44'28"E

909
+98.38

R=1292.77' L=202.19

N75°37'24"E 239.63'

910
L2
911

N86°46'32"E 173.28'

82
N: 2969288.894'
E: 742952.684'
EL: 46.769'
STN

122
N: 2969386.550'
E: 743158.438'
EL: 46.725'
STAKE AND NAIL

123
N: 2969468.739'
E: 743258.681'
EL: 43.585'
MAG

121
N: 2969478.485'
E: 743431.682'
EL: 47.985'
MMAG

PROP TEMP EASEMENT
PROP PERM EASEMENT
PROP TEMP EASEMENT
PROP PERM EASEMENT

MBTA FITCHBURG LINE

MBTA LAYOUT

N55°55'25"E 130.99'
N62°02'17"E 130.99'
S89°57'59"E 21.72'
N69°10'49"E 134.34'

CONTINUED ON SHEET NO. 22

0 20 50 100
SCALE: 1" = 20'

609204_HD\BASELINE_TIE).DWG Plotted on ---- ----

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(BASELINE_TIE).dwg ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	22	186
PROJECT FILE NO.	609204		

BASELINE TIES PLAN

105
N: 2969726.601'
E: 743828.212'
EL: 32.115'
MDHL

84
N: 2969731.247'
E: 743959.268'
EL: 31.031'
MMAG SET

S89°42'53"E
875.73'
TO #5

N

396.14'
N70°57'12"W

N86°35'12"E
186.98'

TOWN LAYOUT

CONCORD AVENUE

278.72'
S55°45'11"W

S40°43'41"W
110.53'

57
N: 2969642.839'
E: 743756.094'
EL: 30.916'
DHL

56
N: 2969569.748'
E: 743597.817'
EL: 39.981'
DHL

N16°45'48"W
8.00'
R=494.00' L=14.75'

N70°57'12"W
396.14'

59
N: 2969550.558'
E: 743549.521'
EL: 33.733'
DHL

61
N: 2969553.785'
E: 743656.056'
EL: 44.376'
STN

N86°35'12"E
131.58'

434 CONCORD AVE
N/F
TOWN OF BELMONT
BK. 11844 PG. 495
PID 31-10

PROP PERM EASEMENT

PROP TEMP EASEMENT

7 CHANNING RD
N/F
RETAIL SITE PROCESSING INC
BK. 30134 PG. 597
PID 35-29

S49°18'23"E
270.16'

N0°59'01"W
53.31'

PROP TEMP EASEMENT

19 CHANNING RD, UNIT 19
N/F
LOPES TERESA P
BK. 48402 PG. 168
PID 35-28

PI +53.93

N1°41'08"W
37.99'

S24°47'56"E
174.00'

L=22.82'

L=29.58'

L=37.98'

R=300.23'

1STORY BRICK BUILDING

58
N: 2969568.516'
E: 743900.919'
EL: 33.311'
DHL

PC +13.77

N3°22'27"W
50.55'

108
N: 2969550.455'
E: 744033.046'
EL: 40.666'
STM

S89°40'28"E
143.84'

PT +29.18

L27

N68°22'57"W
11.48'

S31°13'39"E
26.21'

CONTINUED ON SHEET NO. 21

CONTINUED BELOW LEFT

440 CONCORD AVE
N/F
INHABITANTS OF BELMONT
BK. 11844 PG. 495
PID 31-7

438 CONCORD AVE
N/F
INHABITANTS OF BELMONT
BK. 11844 PG. 495
PID 31-8

436 CONCORD AVE
N/F
INHABITANTS OF BELMONT
BK. 11844 PG. 495
PID 31-9

50+00

L25

PC +45.40

C36

PT +56.44

L24

PC +87.61

C37

R=24.00'

N89°50'57"E
37.11'

R=22.43' L=36.67'

PROP TEMP EASEMENT

R=159.56'

PRC +41.29

S77°51'14"E
44.19'

PT +66.58

R=115.00'

N87°47'59"E
19.36'

L6

916

PC +12.59

C5

PT +32.50

L7

S0°03'32"W
35.95'

S81°09'33"W

R=135.00'

48.28'

N89°42'42"W

S4°12'31"W
15.50'

R=502.00' L=68.13'

PC +71.30

913

912 PT +04.87

L3

N8°01'14"W
25.70'

C1

PC +32.23

911

PRC +49.82

PT +82.19

914

S0°14'42"W
33.37'

915 PC +07.65

N89°46'28"W
119.18'

MBTA LAYOUT

C4

913+68.23 BELMONT COMMUNITY PATH=
51+30.54 BELMONT STATION RAMP

PROP PERM EASEMENT

51+39.48

S74°40'20"E
60.39'

S66°18'45"E
22.01'

MBTA FITCHBURG LINE

PROP TEMP EASEMENT

BELMONT STATION

0+61

340

CONCORD AVENUE

S0°14'42"W
52.43'

338

PROP PERM EASEMENT

PROP TEMP EASEMENT

PROP PERM EASEMENT

85
N: 2969551.024'
E: 743994.666'
EL: 40.828'
SPK SET

S2°08'53"E
1.83'

S89°55'08"E
12.89'

121
N: 2969478.485'
E: 743431.682'
EL: 47.985'
MMAG

135.10'
S7°55'24"E
28.46'
155.33'

N8°28'48"W
18.24'

100' WETLAND BUFFER

0 20 50 100
SCALE: 1" = 20'

CHANNING ROAD

S39°53'51"E
22.86'

S75°28'52"E
71.82'

IP(F)

MIPE 1D 0.05 UP

PROP PERM EASEMENT

PROP TEMP EASEMENT

N0°59'01"W
53.31'

PI +53.93

N1°41'08"W
37.99'

19 CHANNING RD, UNIT 19
N/F
LOPES TERESA P
BK. 48402 PG. 168
PID 35-28

23-25 CHANNING RD
N/F
DALILI TE DARUSH P
BK. 53545 PG. 580
PID 35-27

29 CHANNING RD, UNIT 2
N/F
FUNKENSTEIN TE AMY
BK. 31896 PG. 322
PID 35-26

31-33 CHANNING RD
N/F
SCHILLING PETER M
BK. 30658 PG. 3
PID 35-25

35 CHANNING RD, UNIT 35
N/F
STANLEY CICALESE JULIE M
BK. 25672 PG. 125
PID 35-24

39 CHANNING RD, UNIT 2
N/F
PARSONS IAN TE REVOCABLE TRUST OF 2018
BK. 71760 PG. 187
PID 35-23

45-47 CHANNING RD
N/F
GALLOWAY CRAIG R
BK. 49176 PG. 429
PID 35-22

49-51 CHANNING RD
N/F
FAN TE ZHIMING
BK. 28701 PG. 213
PID 35-21

53 CHANNING RD
N/F
BRUNO MARION REVOCABLE TRUST
BK. 13560 PG. 0743
PID 35-20

57-59 CHANNING RD
N/F
ATINIZ NIGOOS
BK. 18541 PG. 283
PID 35-19

61-63 CHANNING RD
N/F
MURPHY III PATRICK J
BK. 18432 PG. 0090
PID 35-18

CONTINUED ABOVE RIGHT

108
N: 2969550.455'
E: 744033.046'
EL: 40.666'
STM

PC +13.77
OVERHANG

N3°22'27"W
50.55'

S89°40'28"E
143.84'

PT +29.18

L27

N68°22'57"W
11.48'

S31°13'39"E
26.21'

N87°47'59"E
19.36'

L6

916

PC +12.59

C5

PT +32.50

L7

S0°03'32"W
35.95'

S81°09'33"W

R=135.00'

48.28'

N89°42'42"W

PC +97.06

PT +12.82

109
N: 2969550.605'
E: 744083.430'
EL: 40.236'
STN

N0°11'11"E
5.00'

BELMONT CITIZENS FORUM

N88°43'19"E
121.77'

S89°59'20"E
107.18'

111
N: 2969553.300'
E: 744312.350'
EL: 38.396'
STN

N89°16'12"E
300.04'

101A CHANNING RD
N/F
BELMONT CITIZENS FORUM INC
BK. 51653 PG. 19
PID 35-14-A

BELMONT CITIZENS FORUM

S89°24'35"E
194.78'

112
N: 2969551.293'
E: 744507.115'
EL: 37.286'
STN

CONTINUED ON SHEET NO. 23

917

PT +08.25

918

919

920

L14

921

922

C6

PC +68.45

R=240.00'

2+21.72

916+87.53 BELMONT COMMUNITY PATH=
2+21.72 7 CHANNING ROAD

110
N: 2969553.321'
E: 744205.170'
EL: 39.514'
STN

PROP PERM EASEMENT

PROP TEMP EASEMENT

PROP TEMP EASEMENT

120
N: 2969525.264'

MBTA FITCHBURG LINE

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204_HD\Project Drawing Data\DWG\609204_HD(BASELINE_TIE).dwg ----- Plotted on ---- 609204_HD(BASELINE_TIE).DWG

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	23	186
PROJECT FILE NO.	609204		

BASELINE TIES PLAN

S89°42'53"E 875.73' TO #105
71.51' TO IP IRON
N87°22'26"W 832.25' TO #102
287.47' S80°46'58"W
S80°21'41"E 286.98'
S78°07'43"E 232.91'

5
N: 2969722.242'
E: 744703.929'
EL: 26.403'
MMAG SET

IR(F) IR CAP FLUSH
IR(F) IR CAP FLUSH

CHANNING RD N/F IZ NICOCOS 3541 PG. 283 ID 35-19
CHANNING RD N/F TE PATRICK J 32 PG. 0090 35-18
CHANNING RD N/F E LISA M 03 PG. 199 35-17
CHANNING RD N/F TE YANG 1521 PG. 371 D 35-16
73-75 CHANNING RD N/F TRYDER NC BK. 53589 PID 35-1
77 CHANNING RD N/F CARD TE BRIAN M BK. 613 PG. 60 PLAN L.C.C. 6580E PID 35-14
CHANNING RD N/F E JEFFREY NATHAN 165 PG. 94 L.C.C. 6580E PID 35-13
CHANNING RD N/F MICHEVA JULIA 511 PG. 389 L.C.C. 6580E PID 35-12
CHANNING RD N/F TE MARIA A 1086 PG. 163 L.C.C. 6580E ID 35-11
97 CHANNING RD N/F JIN-CHO TE LYDIA YOUNG BK. 1481 PG. 53 PLAN L.C.C. 6580E PID 35-10
101 CHANNING RD N/F KEADY KATHLEEN BK. 19997 PG. 359 PID 35-9

BLDG BLDG BLDG BLDG

112
N: 2969551.293'
E: 744507.115'
EL: 37.286'
STN

114
N: 2969552.201'
E: 744735.039'
EL: 35.138'
STAKE AND NAIL

115
N: 2969548.290'
E: 744904.452'
EL: 34.324'
STAKE AND NAIL

116
N: 2969550.741'
E: 745050.143'
EL: 32.904'
STAKE AND NAIL

101A CHANNING RD N/F BELMONT CITIZENS FORUM INC BK. 51653 PG. 19 PID 35-14-A

BELMONT CITIZENS FORUM

S89°44'31"E 800.02'
225.48' S89°08'17"W
S0°16'52"W 18.32'
169.46' N89°40'04"W
145.71' S89°01'34"W
S0°16'52"W 16.33'

CONTINUED ON SHEET NO. 22

922 923 924 PT +62.90 C13 L13 925 C14 PT +13.77 926 927

GRAVEL PILE

N89°49'32"W 1,085.83'
PROP PERM EASEMENT
PROP TEMP EASEMENT
PC +51.17
PC +01.95
PROP TEMP EASEMENT
PROP PERM EASEMENT
PROP PE EASEME

GREASER

MBTA FITCHBURG LINE

120
N: 2969525.264'
E: 744511.169'
EL: 37.608'
SPK

332 331 330 329 328 327 32

CONTINUED BELOW LEFT

0 20 50 100
SCALE: 1" = 20'

167 ALEXANDER AVE N/F MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 0113 PID 35-39

MOLK TE JEFFREY NATHAN BK. 165 PG. 94 PLAN L.C.C. 6580E PID 35-13
83 CHANNING RD N/F FOMICHEVA JULIA BK. 511 PG. 389 PLAN L.C.C. 6580E PID 35-12
87 CHANNING RD N/F LEZA TE MARIA A BK. 1086 PG. 163 PLAN L.C.C. 6580E PID 35-11
91 CHANNING RD N/F JIN-CHO TE LYDIA YOUNG BK. 1481 PG. 53 PLAN L.C.C. 6580E PID 35-10
101 CHANNING RD N/F KEADY KATHLEEN BK. 19997 PG. 359 PID 35-9
105 CHANNING RD N/F WATTERS LE MARGARET M BK. 53695 PG. 390 PID 35-8
111 CHANNING RD N/F XIE XIAOYUN BK. 59970 PG. 260 PID 35-7
115 CHANNING RD N/F THOMAS TE SUU BK. 10356 PG. 414 PID 35-6
119 CHANNING RD N/F ROSSI JOCELYN BK. 07445 PG. 362 PID 35-5
125 CHANNING RD N/F COBUZZI PAUL DAVID BK. 20009 PG. 228 PID 35-4
145 ALEXANDER AVE N/F COBUZZI ROBERT ANTHONY BK. 20865 PG. 379 PID 35-3

115
N: 2969548.290'
E: 744904.452'
EL: 34.324'
STAKE AND NAIL

116
N: 2969550.741'
E: 745050.143'
EL: 32.904'
STAKE AND NAIL

117
N: 2969546.300'
E: 745208.977'
EL: 32.370'
STAKE AND NAIL

118
N: 2969537.529'
E: 745383.535'
EL: 31.172'
STAKE AND NAIL

101A CHANNING RD N/F BELMONT CITIZENS FORUM INC BK. 51653 PG. 19 PID 35-14-A

BELMONT CITIZENS FORUM

145.71' S89°01'34"W
S0°16'52"W 16.33'
158.90' N58°23'54"W
194.78' N87°07'24"W
S88°31'16"E 200.06'
S87°15'48"W 107.22'

CONTINUED ABOVE RIGHT

925 C14 PT +13.77 926 927 L12 928 929 930 PC +04.76 C15 PT +49.97 L11

GRAVEL PILE

PC +01.95
PROP TEMP EASEMENT
PROP PERM EASEMENT
PROP PERM EASEMENT
N0°16'52"E 10.80'
PROP PERM EASEMENT
PROP TEMP EASEMENT
S89°51'48"W 149.01'
N1°56'31"E 2.83'
96.53' S89°53'20"W
N8°28'17"W 2.16'
129.38' S81°31'43"W
PROP TEMP EASEMENT
PROP PERM EASEMENT

MBTA FITCHBURG LINE

328 327 326 325 324 323

CONTINUED ON SHEET NO. 24

167 ALEXANDER AVE N/F MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 0113 PID 35-39

0 20 50 100
SCALE: 1" = 20'

609204_HD(BASELINE_TIE).DWG Plotted on ---- ----

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	24	186
PROJECT FILE NO.	609204		

BASELINE TIES PLAN

N

CHANNING ROAD

ALEXANDER AVENUE

MBTA FITCHBURG LINE

102
N: 2969684.110'
E: 745535.304'
EL: 21.391'
MMAG SET GPS

N65°02'30"W 137.98' TO MDHL SB
N87°22'26"W 832.25' TO #5
S71°28'20"W 22.40'
N86°36'14"W 563.75' TO #3
N83°48'32"E 299.82'

4
N: 2969716.444'
E: 745833.379'
EL: 18.778'
MMAG FND

PROP TEMP EASEMENT

PC +12.36
PT +27.04
163.17' S85°52'48"W
39.73' S68°47'47"W
S55°20'10"W 33.63'
S46°37'42"W 47.33'
S74°24'40"E 70.07'
PC +34.68
S41°07'44"E 194.15'
S63°12'56"E 184.90'
PC +77.76
PT +85.93
N63°12'56"W 162.29'

119 CHANNING RD N/F ROSSI JOCELYN BK. 07445 PG. 362 PID 35-5

125 CHANNING RD N/F COBUZZI PAUL DAVID BK. 20009 PG. 228 PID 35-4

145 ALEXANDER AVE N/F COBUZZI ROBERT ANTHONY BK. 20865 PG. 0379 PID 35-3

145 CHANNING RD N/F HEALEY TE PAUL BK. 41373 PG. 546 PID 37-92

153 CHANNING RD N/F MORIN TE KARA A BK. 53096 PG. 515 PID 37-91

159 CHANNING RD N/F SHANE TRS JOHN & JOHN J JR BK. 60501 PG. 86 PID 37-90

159 ALEXANDER AVE N/F SCARFO JAMES J BK. 8116 PG. 485 PID 35-1

BENCHMARK: SQ-CUT ON CONCRETE PAD CORNER EL=29.96'

BELMONT CITIZENS FORUM

PROP TEMP EASEMENT

WD SHED

68
N: 2969543.143'
E: 745913.866'
EL: 26.738'
STN

193.87' N89°42'25"W

118
N: 2969537.529'
E: 745383.535'
EL: 31.172'
STAKE AND NAIL

S88°31'16"E 200.06'
S87°15'48"W 107.22'
N89°29'54"E 200.12'
N89°51'53"E 44.01'
N89°51'53"E 66.02'
PC +44.99
PT +49.97
PT +82.69
PI +93.80
PT +97.45
PT +19.69
PC +26.69
PT +59.47
S87°24'16"E 97.65'
N86°27'56"E 153.62'
S89°43'36"E 3,564.20'

101A CHANNING RD N/F BELMONT CITIZENS FORUM INC BK. 51653 PG. 19 PID 35-14-A

CONTINUED ON SHEET NO. 23

CONTINUED ON SHEET NO. 25

119
N: 2969542.639'
E: 745490.631'
EL: 29.746'
STAKE AND NAIL

104
N: 2969537.872'
E: 745663.005'
EL: 27.378'
HT SET

N1°56'31"E 2.83'
96.53' S89°53'20"W
N8°28'17"W 2.16'
129.38' S81°31'43"W
N79°21'53"W 109.70'
N88°24'47"W 172.44'
N89°43'18"W 22.61'
PC +09.99
PT +30.56
75.30' S81°13'42"W
85.97' N84°25'27"W
S6°33'30"W 6.21'
+40.25

933+19.69 BELMONT COMMUNITY PATH= 502+04.30 ALEXANDER AVE SPUR

67
N: 2969547.565'
E: 745816.316'
EL: 27.108'
STN

PROP PERM EASEMENT
PROP TEMP EASEMENT
N70°18'59"E 32.03'
N0°16'40"E 36.25'
N89°30'56"W 7.86'
N0°24'12"E 11.91'
S89°48'27"E 4.33'
S9°22'46"W 83.33'

167 ALEXANDER AVE N/F MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 0113 PID 35-39

BUILDING

MBTA LAYOUT

194.31' N89°43'36"W
105.95' S87°34'07"W
453.99' N89°43'36"W
PC +106.78
PT +32.95
N14°29'52"E 64.89'
PC +75.99
N1°47'53"W 50.09'
PT +18.43

CONC PAD
CONC WALL
RUNNING TRACK
VGC
GRASS

CONTINUED ON SHEET NO. 28

0 20 50 100
SCALE: 1" = 20'

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(BASELINE_TIE).dwg ----

609204_HD(BASELINE_TIE).DWG Plotted on ---- ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	25	186
PROJECT FILE NO.	609204		

BASELINE TIES PLAN

N81°42'15"E
303.63'
TO MDHL SB

80.16'
S79°10'40"W

CBND(F)
CBND FLUSH

MIPE 1/2D FLUSH IP(F)

S11°28'46"W
15.65'

3
N: 2969683.049'
E: 746396.137'
EL: 14.064'
MMAG SET

S87°06'17"W
873.90'
TO #2

159 CHANNING RD
N/F
SHANE TRS JOHN & JOHN J JR
BK. 60501 PG. 86
PID 37-90

167 CHANNING RD
N/F
BHATTA TE DEEN B
BK. 39477 PG. 544
PID 37-89

175 CHANNING RD
N/F
QUINN TRS JOHN A
BK. 9258 PG. 446
PID 37-88

181 CHANNING RD
N/F
BRANGWYNNE TE RUSSELL F
BK. 20545 PG. 0049
PID 37-87

187 CHANNING RD
N/F
CORRIGAN TE PAUL JEFFREY
BK. 46016 PG. 404
PID 37-86

193 CHANNING RD
N/F
DEORIO TR WILLIAM A & MARILYN C
DEORIO
BK. 36344 PG. 540 PID 37-85

199 CHANNING RD
N/F
ZHU TE MENG YU
BK. 40971 PG. 33
PID 37-84

203 CHANNING RD
N/F
TIERNEY ANN M
BK. 18911 PG. 372 PID 37-83

PROP TEMP EASEMENT

68
N: 2969543.143'
E: 745913.866'
EL: 26.738'
STN

193.87'
N89°42'25"W

195.08'
N88°35'54"W

BELMONT CITIZENS FORUM

160.05'
S88°49'34"W

100.64'
N84°35'56"W

101A CHANNING RD
N/F
BELMONT CITIZENS FORUM INC
BK. 51653 PG. 19
PID 35-14-A

IP(F)

PT +59.47
S87°24'16"E
97.65'

935
L16

PC +85.68

PG 172.907
936
PT +05.77

S88°39'41"E
225.77'

937

S0°16'52"W
7.37'

L21

938

N89°03'40"E
162.76'

939

PC +55.82
C20 53

S88°12'50"E
166.64'

C2 940 PT +05.64

CONTINUED ON SHEET NO. 24

85.97'
N84°25'27"W

43.07'
N87°45'07"W

75.28'
N90°00'00"W

32.98'
S86°49'57"W

63.05'
S88°22'57"W

S0°16'52"W
4.95'

186.45'
N89°43'08"W

30.19'
N85°08'42"W

R=240.00'

R=260.00'

CONTINUED BELOW LEFT

S6°33'30"W
6.21'

+40.25

67
N: 2969547.565'
E: 745816.316'
EL: 27.108'
STN

318

SWITCH

PROP PERM EASEMENT

317

PROP TEMP EASEMENT

316

69
N: 2969537.869'
E: 746139.578'
EL: 26.172'
STN

+66.97

PROP PERM EASEMENT

70
N: 2969540.536'
E: 746302.315'
EL: 23.754'
HT

314

313

MBTA FITCHBURG LINE

167 ALEXANDER AVE
N/F
MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 0113
PID 35-39

MBTA LAYOUT

S63°35'07"E
6.81'

237.30'
N89°43'36"W

MBTA LAYOUT

2.32'
S70°45'53"W

0 20 50 100
SCALE: 1" = 20'

209 CHANNING RD
N/F
BRIDESMAID TE WILLIAM L BK. 10376 PG. 512 PID 37-82

215 CHANNING RD N/F
CROWLEY TE MICHAEL BK. 36977 PG. 89 PID 37-81

219 CHANNING RD
N/F
POULIN TE JOHN
BK. 26657 PG. 187 PID 37-80

223 CHANNING RD N/F
WALL TE ANDREW BK. 1019 PG. 184
PLAN L.C.C. 29488A
PID 37-79

229 CHANNING RD N/F
NAPOLI FRANK C BK. 664 PG. 128
PID 37-78

235 CHANNING RD
N/F
MACKINNON TE JANE H BK. 769 PG 116
PLAN L.C.C. 29488A
PID 37-77

241 CHANNING RD
N/F
CATERINO TR COSMO
BK. 1463 PG. 61
PLAN L.C.C. 29488A
PID 37-76

247 CHANNING RD
N/F
TRISCHITTA TE JOHN J BK. 680 PG. 36
PLAN L.C.C. 29488A
PID 37-75

100.64'
N84°35'56"W

100.40'
S85°06'54"W

100.40'
N84°35'56"W

48.80'
N89°44'50"W

73
N: 2969542.338'
E: 746763.898'
EL: 20.511'
MSTN SET

S89°44'31"E
251.19'

N86°15'14"E
100.24'

BELMONT CITIZENS FORUM

101A CHANNING RD
N/F
BELMONT CITIZENS FORUM INC
BK. 51653 PG. 19
PID 35-14-A

S88°12'50"E
166.64'

S88°46'14"E
111.83'

N87°04'09"E
183.66'

S88°25'36"E
139.32'

C2 940 PT +05.64

941

942

943

944

945

L23

946

+91.40

CONTINUED ABOVE RIGHT

=260.00'

1,057.20'
N89°43'08"W

CONTINUED ON SHEET NO. 26

PROP TEMP EASEMENT

PROP PERM EASEMENT

S0°16'52"W
18.90'

71
N: 2969535.342'
E: 746468.870'
EL: 23.595'
MSTN SET

72
N: 2969532.947'
E: 746580.479'
EL: 21.467'
MSTN SET

MBTA FITCHBURG LINE

313

2

311

310

101C CHANNING RD
N/F
MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 113
PID 36-1

309

PROP TEMP EASEMENT

308

74
N: 2969538.513'
E: 746903.167'
EL: 19.640'
MSTN SET

S14°12'05"E
10.80'

MBTA LAYOUT

0 20 50 100
SCALE: 1" = 20'

513.50'
N89°43'36"W

100.12'
N86°51'51"W

100.12'
S87°24'40"W

200.06'
N88°17'40"W

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(BASELINE_TIE).dwg ----

609204_HD(BASELINE_TIE).DWG ---- Plotted on ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	26	186
PROJECT FILE NO.	609204		

BASELINE TIES PLAN

CHANNING ROAD

S87°06'17"W 873.90' TO #3
S75°47'57"W 243.21' TO IR CAP
N33°22'41"W 14.17'
N13°27'25"E 40.95' TO DH
S60°27'50"W 105.84' TO IR CAP
N86°30'22"W 396.69' TO #1

2
N: 2969727.189'
E: 747268.918'
EL: 10.881'
MMAG SET

N86°30'22"W 396.69' TO #2
N26°55'17"W 223.17' TO #100

1
N: 2969703.015'
E: 747664.875'
EL: 12.395'
HT SET AKA 1

CHANNING ROAD

N

241 CHANNING RD
N/F
CATERINO TR COSMO
BK. 1463 PG. 61
PLAN L.C.C. 29488A
PID 37-76

TRISCHITTA TE JOHN J BK. 680 PG. 36
PLAN L.C.C. 29488A
PID 37-75

247 CHANNING RD
N/F
TSANG TE STEPHEN BK. 1161 PG. 109
PLAN L.C.C. 29488A
PID 37-74

253 CHANNING RD
N/F
DEMETROPOULOS, JAMES J
BK. 1211 PG. 55
PLAN L.C.C. 29488A
PID 37-73

259 CHANNING RD
N/F
CORSINO JR TE EDWARD R BK. 678 PG. 194
PLAN L.C.C. 29488A
PID 37-72

265 CHANNING RD
N/F
NOONE TE JOSEPH M
BK. 992 PG. 173
PLAN L.C.C. 29488B
PID 37-71

RSON ISAIAH S BK. 1518 PG. 14
PLAN L.C.C. 29488B
PID 37-70

277 CHANNING RD
N/F

279 CHANNING RD
N/F
SHEA KEVIN M
BK. 23032 PG. 072 PID 37-69

285 CHANNING RD
N/F
HEAYN TE PAUL
BK. 69435 PG. 301 PID 37-68

291 CHANNING RD
N/F
NOONE ELAINE J
BK. 64835 PG. 122
PID 38-45

N86°15'14"E 100.24'
S89°44'31"E 310.12'
S89°45'44"E 194.31'

IP(F)

101A CHANNING RD
N/F
BELMONT CITIZENS FORUM INC
BK. 51653 PG. 19
PID 35-14-A

76
N: 2969533.219'
E: 747168.752'
EL: 17.796'
MSTN SET

77
N: 2969530.816'
E: 747343.962'
EL: 15.986'
MSTN SET

BELMONT CITIZENS FORUM

CONTINUED ON SHEET NO. 25

S87°12'24"E 123.42'
N89°42'36"E 142.32'
S89°12'52"E 175.25'

L23
946 947 948 949 950 951
C8 L8 C9
PC +44.48
1,057.20'
89°43'08"W
R=190.00'
45.56'
N79°47'10"W
R=248.92'
PC +62.84
PT +97.51
303 302

PROP TEMP EASEMENT
PROP PERM EASEMENT
PROP TEMP EASEMENT
PROP PERM EASEMENT

74
N: 2969538.513'
E: 746903.167'
EL: 19.640'
MSTN SET

75
N: 2969532.498'
E: 747026.438'
EL: 18.033'
MSTN SET

308 307 306 305 304

MBTA FITCHBURG LINE

78
N: 2969528.085'
E: 747495.530'
EL: 14.886'
MSTN SET

PROP PERM EASEMENT

CONTINUED BELOW LEFT

MBTA LAYOUT

200.06'
N88°17'40"W

0 20 50 100
SCALE: 1" = 20'

642.89'

N

291 CHANNING RD
N/F
NOONE ELAINE J
BK. 64835 PG. 122
PID 38-45

285 CHANNING RD
N/F
HEAYN TE PAUL
BK. 69435 PG. 301 PID 37-68

295 CHANNING RD
N/F
ATSIKNOUDAS DIONISIA
BK. 21530 PG. 294 PID 38-46

301 CHANNING RD
N/F
JANG TE JIN SEOP
BK. 11159 PG. 498
PID 38-47

307 CHANNING RD
N/F
POIRIER ELIZABETH A BK. 57433 PG. 341 PID 38-48

315 CHANNING RD
N/F
CYNTHIA J BK. 29523 PG. 88
PID 38-48-A

321 CHANNING RD
N/F
BRUCE TR JAMES W BK. 14788 PG. 577 PID 38-48-B

N0°17'37"E 93.50'

40-42 BRIGHTON ST,
N/F
BRIGHTON STREET CONDOMINIUM
BK. 64963 PG. 304
PL.BK. 1959 PLAN 1442
PL.BK. 1964 PLAN 263
PID 38-10

N1°09'57"W 93.57'

S88°29'17"E 46.20'
S88°21'54"E 42.03'
S85°46'23"E 100.24'
S89°46'53"E 168.16'
N70°51'34"E 34.99'

101A CHANNING RD
N/F
BELMONT CITIZENS FORUM INC
BK. 51653 PG. 19
PID 35-14-A

PROP TEMP EASEMENT

79
N: 2969524.914'
E: 747699.947'
EL: 17.771'
MSTN SET

N26°55'17"W 223.17' TO #1

PROP 40' SLIDING GATE
+00 TO +40 LT

BENCHMARK: TOP COR CNC
EL=15.91'

MET BIN
MET BIN
CONC PAD

EXIST EASEMENT FOR PATH

PROP TEMP EASEMENT

CONTINUED ABOVE RIGHT

C8 L8 C9
951
PC +44.48
R=190.00'
45.56'
N79°47'10"W
R=248.92'
PT +79.00
PT +97.51
952 953 954 955 956 957
L9

S24°28'22"E 32.56'
S89°06'41"E 204.44'
S72°25'59"E 69.40'
S89°40'32"E 750.99'
S89°40'32"E 748.11'
N88°47'45"E 579.49'

+28.56
7.46'
N89°40'32"W
S0°19'28"W 2.00'
S0°19'28"W 20.28'

CONSERVATION EASEMENT BK. 64963 PG. 300

302 301 300 299 298 297

MBTA FITCHBURG LINE

MBTA LAYOUT
PROP TEMP EASEMENT
PROP PERM EASEMENT
MBTA LAYOUT

78
N: 2969528.085'
E: 747495.530'
EL: 14.886'
MSTN SET

100
N: 2969504.028'
E: 747765.920'
EL: 13.191'
HT SET GPS

CONTINUED ON SHEET NO. 27

0 20 50 100
SCALE: 1" = 20'

MBTA LAYOUT
49.56'
S88°00'00"W
1.94'
S1°01'22"W

12.89'
210.40'

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(BASELINE_TIE).dwg ----

609204_HD(BASELINE_TIE).DWG Plotted on ---- ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	27	186
PROJECT FILE NO.	609204		

BASELINE TIES PLAN

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(BASELINE_TIE).dwg ----
609204_HD(BASELINE_TIE).DWG Plotted on ---- ----

CONTINUED ON SHEET NO. #####

N

40–42 BRIGHTON ST,
N/F
BRIGHTON STREET CONDOMINIUM
BK. 64963 PG. 304
PL.BK. 1959 PLAN 1442
PL.BK. 1964 PLAN 263
PID 38–10

N1°09'57"W
93.57'

46 BRIGHTON ST
N/F
STANLEY D. GARFIELD REVOCABLE TRUST OF 2014
BK. 64312 PG. 280
PL.BK. 1945 PLAN 625
PID 38–11

CONC. PAD

TWO BY TWO REALTY LLC
BK. 44742 PG. 61
PID 39–68

2 STORY CONCRETE BUILDING

TOP COR CNC

PROP TEMP EASEMENT

S89°46'53"E
219.03'

959+53.87 BELMONT COMMUNITY PATH=
201+73.42 BRIGHTON ST

PT +26.17

N88°47'45"E
579.49'

PC +95.16

PRC +24.89

PT +54.60

960 C11 C12

961 L11

961+67.25

N84°51'21"W
46.28'

N89°19'58"W
236.08'

L10

C10

957 958 959

297 296 295 294 293 292

MBTA LAYOUT

EXIST EASEMENT FOR PATH

PROP TEMP EASEMENT

PC +13.87

L43

101
N: 2969516.206'
E: 748345.285'
EL: 12.376'
MMAG

PROJECT END
STA 960+90
N2969514.3844
E748458.0940

55
N: 2969513.457'
E: 748581.349'
EL: 12.334'
MMAG

FITCHBURG CUTOFF

MBTA FITCHBURG LINE

MBTA LAYOUT

MBTA LAYOUT
49.56'
S88°00'00"W

MBTA LAYOUT
293.30'
N89°42'52"W

30 BRIGHTON ST
N/F
HITTINGER STREET LLC
BK. 885 PG. 173
PLAN L.C.C. 22622A
PID 38–8

33 BRIGHTON ST
N/F
ANTONELLIS DOMENIC M
BK. 13458 PG. 552
PID 38–2

BRIGHTON STREET

RRSG
GAS(PAINTED)
CONC WALK
36"SEWER
15"SEWER
30"SEWER
24"SEWER
16"GAS
2"GAS
10"SEWER
2"GAS
CONC
BRICK
GRAVEL
ASPH

0 20 50 100
SCALE: 1" = 20'

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	28	186
PROJECT FILE NO.		609204	

BASELINE TIES PLAN

N

BELMONT MIDDLE AND HIGH SCHOOL

GRASS
CONCRETE SIDEWALK
VGC
CROSSWALK
PROP TEMP EASEMENT
PROP PERM EASEMENT
PT +75.73
S0°26'03"W
167.25'
PC +55.14
L36
L37
PT +108.25
PI +25.81
PC +91.38
R=137.28'
31.90'
N89°54'46"W
60.54'
N0°13'42"E
505
506
507
508
L39
BIT. CONC.
TRACK SURFACE
PC +74.14
PRC +152.30
PT +35.36
L40
L41
L42
L43
L44
L45
L46
L47
L48
L49
L50
L51
L52
L53
L54
L55
L56
L57
L58
L59
L60
L61
L62
L63
L64
L65
L66
L67
L68
L69
L70
L71
L72
L73
L74
L75
L76
L77
L78
L79

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	29	186
PROJECT FILE NO.	609204		

BASELINE TIES PLAN

BELMONT COMMUNITY PATH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	900+00.00	2968925.2025	742583.2066		N32°52'18"E 121.98'	901+21.98	2969027.6503	742649.4111
C18	901+21.98	2969027.6503	742649.4111	R=450.00' Δ=21°09'03" L=166.12' T=84.01'		902+88.10	2969147.5697	742762.9997
L17	902+88.10	2969147.5697	742762.9997		N54°01'20"E 308.68'	905+96.78	2969328.9105	743012.7988
C19	905+96.78	2969328.9105	743012.7988	R=800.00' Δ=21°36'04" L=301.61' T=152.62'		908+98.38	2969456.4610	743284.1384
L2	908+98.38	2969456.4610	743284.1384		N75°37'24"E 233.85'	911+32.23	2969514.5236	743510.6606
C1	911+32.23	2969514.5236	743510.6606	R=625.00' Δ=6°39'33" L=72.64' T=36.36'		912+04.87	2969528.4347	743581.9148
L3	912+04.87	2969528.4347	743581.9148		N82°16'57"E 66.43'	912+71.30	2969537.3559	743647.7462
C4	915+41.29	2969529.5943	743917.0898	R=150.00' Δ=9°39'46" L=25.30' T=12.68'		915+66.58	2969527.3396	743942.2558
L6	915+66.58	2969527.3396	743942.2558		S89°42'42"E 46.00'	916+12.59	2969527.1082	743988.2587
C5	916+12.59	2969527.1082	743988.2587	R=125.00' Δ=9°07'44" L=19.92' T=9.98'		916+32.50	2969528.5917	744008.0985
L7	916+32.50	2969528.5917	744008.0985		N81°09'33"E 35.95'	916+68.45	2969534.1167	744043.6212
C6	916+68.45	2969534.1167	744043.6212	R=250.00' Δ=9°07'18" L=39.80' T=19.94'		917+08.25	2969537.0839	744083.2693
L14	917+08.25	2969537.0839	744083.2693		S89°43'08"E 742.92'	924+51.17	2969533.4402	744826.1769
C13	924+51.17	2969533.4402	744826.1769	R=300.00' Δ=2°15'26" L=11.82' T=5.91'		924+62.99	2969533.6150	744837.9932
L13	924+62.99	2969533.6150	744837.9932		N88°01'26"E 38.96'	925+01.95	2969534.9585	744876.9314
C14	925+01.95	2969534.9585	744876.9314	R=300.00' Δ=2°15'26" L=11.82' T=5.91'		925+13.77	2969535.1333	744888.7477
L12	925+13.77	2969535.1333	744888.7477		S89°43'08"E 490.99'	930+04.76	2969532.7252	745379.7331
C15	930+04.76	2969532.7252	745379.7331	R=300.00' Δ=8°38'04" L=45.21' T=22.65'		930+49.97	2969535.9045	745424.7889
L15	930+49.97	2969535.9045	745424.7889		N81°38'47"E 95.03'	931+44.99	2969549.7098	745518.8059
C16	931+44.99	2969549.7098	745518.8059	R=250.00' Δ=8°38'04" L=37.68' T=18.87'		931+82.67	2969552.3592	745556.3523
L19	931+82.67	2969552.3592	745556.3523		S89°43'08"E 114.78'	932+97.45	2969551.7963	745671.1310
L20	932+97.45	2969551.7963	745671.1310		S81°58'02"E 22.24'	933+19.69	2969548.6882	745693.1548
L18	933+19.69	2969548.6882	745693.1548		S89°43'08"E 106.91'	934+26.61	2969548.1639	745800.0663
C17	934+26.61	2969548.1639	745800.0663	R=300.00' Δ=6°16'38" L=32.87' T=16.45'		934+59.47	2969546.2043	745832.8592
L16	934+59.47	2969546.2043	745832.8592		S83°26'30"E 113.43'	935+72.90	2969533.2489	745945.5481
C7	935+72.90	2969533.2489	745945.5481	R=300.00' Δ=6°16'38" L=32.87' T=16.45'		936+05.77	2969531.2893	745978.3410
L21	936+05.77	2969531.2893	745978.3410		S89°43'08"E 329.75'	939+35.53	2969529.6720	746308.0904
C20	939+35.53	2969529.6720	746308.0904	R=250.00' Δ=4°34'24" L=19.95' T=9.98'		939+55.48	2969528.7783	746328.0194
L22	939+55.48	2969528.7783	746328.0194		S85°08'45"E 30.20'	939+85.68	2969526.2226	746358.1138
C21	939+85.68	2969526.2226	746358.1138	R=250.00' Δ=4°34'24" L=19.95' T=9.98'		940+05.64	2969525.3289	746378.0428

BELMONT COMMUNITY PATH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L23	940+05.64	2969525.3289	746378.0428		S89°43'08"E 1057.20'	950+62.84	2969520.1438	747435.2306
C8	950+62.84	2969520.1438	747435.2306	R=200.00' Δ=9°55'58" L=34.67' T=17.38'		950+97.51	2969516.9767	747469.7144
L8	950+97.51	2969516.9767	747469.7144		S79°47'10"E 46.97'	951+44.48	2969508.6477	747515.9408
C9	951+44.48	2969508.6477	747515.9408	R=200.00' Δ=9°53'22" L=34.52' T=17.30'		951+79.00	2969505.4814	747550.2732
L9	951+79.00	2969505.4814	747550.2732		S89°40'32"E 734.87'	959+13.87	2969501.3208	748285.1278
C10	959+13.87	2969501.3208	748285.1278	R=50.00' Δ=14°05'31" L=12.30' T=6.18'		959+26.17	2969502.7565	748297.3100
L10	959+26.17	2969502.7565	748297.3100		N76°13'57"E 68.99'	959+95.16	2969519.1753	748364.3193
C11	959+95.16	2969519.1753	748364.3193	R=50.00' Δ=34°04'27" L=29.74' T=15.32'		960+24.89	2969517.5042	748393.5707
C12	960+24.89	2969517.5042	748393.5707	R=75.00' Δ=22°41'49" L=29.71' T=15.05'		960+54.60	2969512.9081	748422.7271
L11	960+54.60	2969512.9081	748422.7271		N87°36'35"E 112.65'	961+67.25	2969517.6062	748535.2773

BELMONT STATION RAMP CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L25	50+00.00	2969562.6291	743635.8970		N88°12'14"E 45.40'	50+45.40	2969564.0520	743681.2753
C36	50+45.40	2969564.0520	743681.2753	R=100.00' Δ=6°19'25" L=11.04' T=5.52'		50+56.44	2969565.0054	743692.2652
L24	50+56.44	2969565.0054	743692.2652		N81°52'49"E 35.93'	50+92.37	2969570.0806	743727.8383
C37	50+92.37	2969570.0806	743727.8383	R=15.00' Δ=98°36'23" L=25.82' T=17.44'		51+18.19	2969555.1035	743744.9563
L26	51+18.19	2969555.1035	743744.9563		S0°29'12"W 21.29'	51+39.48	2969533.8143	743744.7754

BRIGHTON ST CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L43	200+00.00	2969340.8034	748365.0437		N13°37'02"W 300.00'	203+00.00	2969632.3735	748294.4124

7 CHANNING ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L28	2+12.82	2969545.2041	744061.8746		S4°28'04"E 8.90'	2+21.72	2969536.3272	744062.5682
C24	1+97.06	2969555.2531	744051.8747	R=10.00' Δ=90°16'52" L=15.76' T=10.05'		2+12.82	2969545.2041	744061.8746
L27	1+29.18	2969555.2531	743983.9950		N90°00'00"E 67.88'	1+97.06	2969555.2531	744051.8747
C25	1+13.77	2969564.9590	743973.9994	R=10.00' Δ=88°18'52" L=15.41' T=9.71'		1+29.18	2969555.2531	743983.9950
L30	0+53.93	2969624.7722	743972.2393		S1°41'08"E 59.84'	1+13.77	2969564.9590	743973.9994
L29	0+00.00	2969678.6910	743971.3005		S0°59'51"E 53.93'	0+53.93	2969624.7722	743972.2393

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609204_HD(BASELINE_TIE).DWG Plotted on ---- ----

ALEXANDER AVE SPUR CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L31	500+00.00	2969691.2285	745556.5454		S2°14'52"E 12.36'	500+12.36	2969678.8765	745557.0302
C26	500+12.36	2969678.8765	745557.0302	R=25.00' Δ=33°38'39" L=14.68' T=7.56'		500+27.04	2969665.2005	745561.7579
L32	500+27.04	2969665.2005	745561.7579		S35°53'31"E 7.64'	500+34.68	2969659.0121	745566.2363
C27	500+34.68	2969659.0121	745566.2363	R=200.00' Δ=20°19'06" L=70.92' T=35.84'		501+05.61	2969610.0467	745617.0322
L33	501+05.61	2969610.0467	745617.0322		S56°12'38"E 72.16'	501+77.76	2969569.9163	745677.0021
C32	501+77.76	2969569.9163	745677.0021	R=100.00' Δ=4°40'52" L=8.17' T=4.09'		501+85.93	2969565.1003	745683.5991
L41	501+85.93	2969565.1003	745683.5991		S44°59'41"E 7.86'	501+93.80	2969559.5411	745689.1573
L42	501+93.80	2969559.5411	745689.1573		S44°59'41"E 16.20'	502+09.99	2969548.0878	745700.6085
C33	502+09.99	2969548.0878	745700.6085	R=26.00' Δ=45°20'06" L=20.57' T=10.86'		502+30.56	2969529.5585	745708.2419
L34	502+30.56	2969529.5585	745708.2419		S0°16'40"W 76.22'	503+06.78	2969453.3440	745707.8724
C28	503+06.78	2969453.3440	745707.8724	R=60.00' Δ=24°59'13" L=26.17' T=13.29'		503+32.95	2969428.0267	745702.1338
L35	503+32.95	2969428.0267	745702.1338		S25°15'53"W 43.04'	503+75.99	2969389.1034	745683.7641
C29	503+75.99	2969389.1034	745683.7641	R=60.00' Δ=40°32'07" L=42.45' T=22.16'		504+18.43	2969347.6926	745680.1432
L36	504+18.43	2969347.6926	745680.1432		S15°16'14"E 37.31'	504+55.74	2969311.7015	745689.9693
C30	504+55.74	2969311.7015	745689.9693	R=75.00' Δ=15°16'14" L=19.99' T=10.05'		504+75.73	2969291.9483	745692.6173
L37	504+75.73	2969291.9483	745692.6173		S0°00'00"E 15.65'	504+91.38	2969276.2996	745692.6173
C31	504+91.38	2969276.2996	745692.6173	R=100.00' Δ=9°05'25" L=15.87' T=7.95'		505+07.25	2969260.5005	745693.8733
L38	505+07.25	2969260.5005	745693.8733		S9°05'25"E 18.57'	505+25.81	2969242.1652	745696.8069
L39	505+25.81	2969242.1652	745696.8069		S0°33'42"E 348.32'	508+74.14	2968893.8574	745700.2210
L40	509+35.36	2968840.7342	745673.1158		S23°36'39"W 122.88'	510+58.24	2968728.1379	745623.8983

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	30	186
PROJECT FILE NO.	609204		

BASELINE TIES PLAN

609204_HD\BASELINE_TIE).DWG Plotted on ---- ----

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	31	186
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS

PROP TIMBER RAIL 900+33 TO 901+00 LT
PROP TIMBER RAIL 902+24 TO 903+25 LT
PROP TIMBER RAIL 905+00 TO 910+25 LT

TRAFFIC SIGNAL CONDUIT

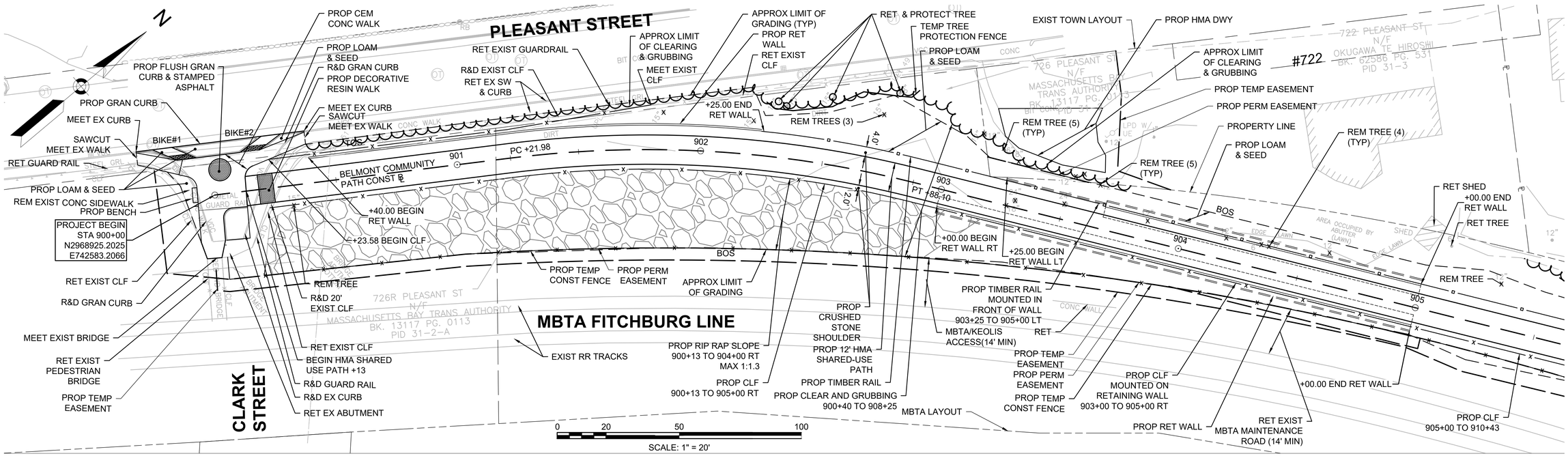
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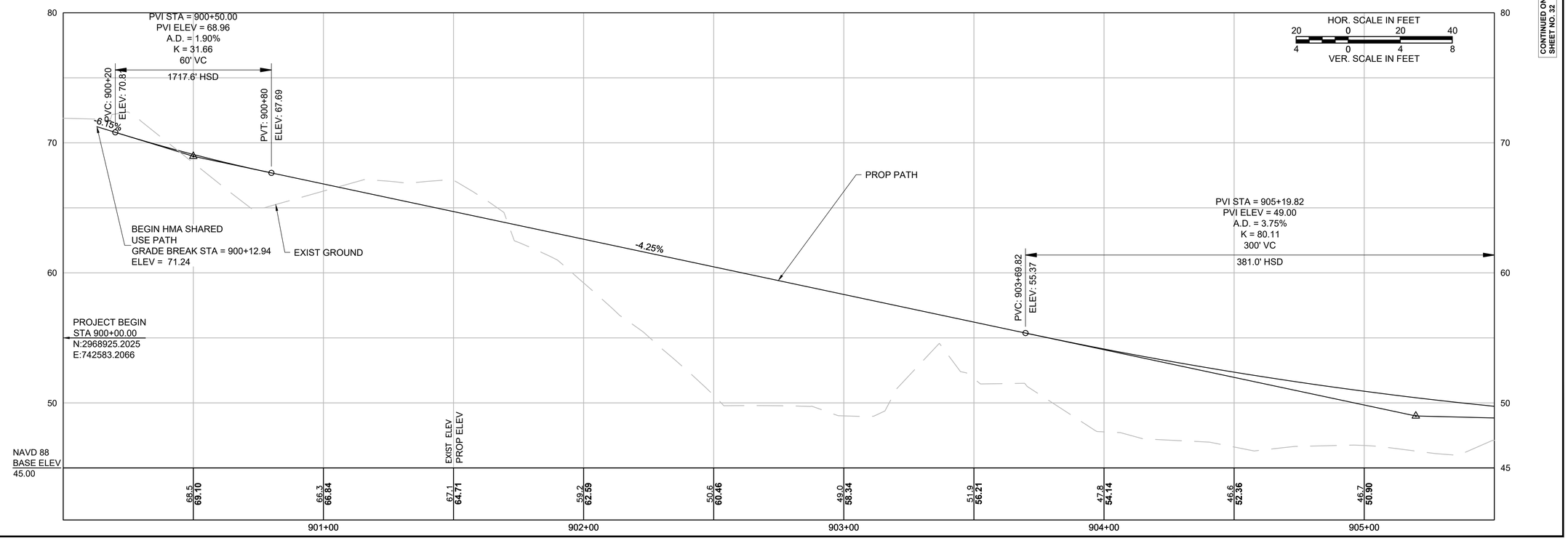
WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 59





CONTINUED ON SHEET NO. 32

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	32	186
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS

PROP TIMBER RAIL 905+00 TO 910+25 LT
PROP TIMBER RAIL 910+43 TO 912+55 RT

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 59

CONTINUED ON SHEET NO. 31

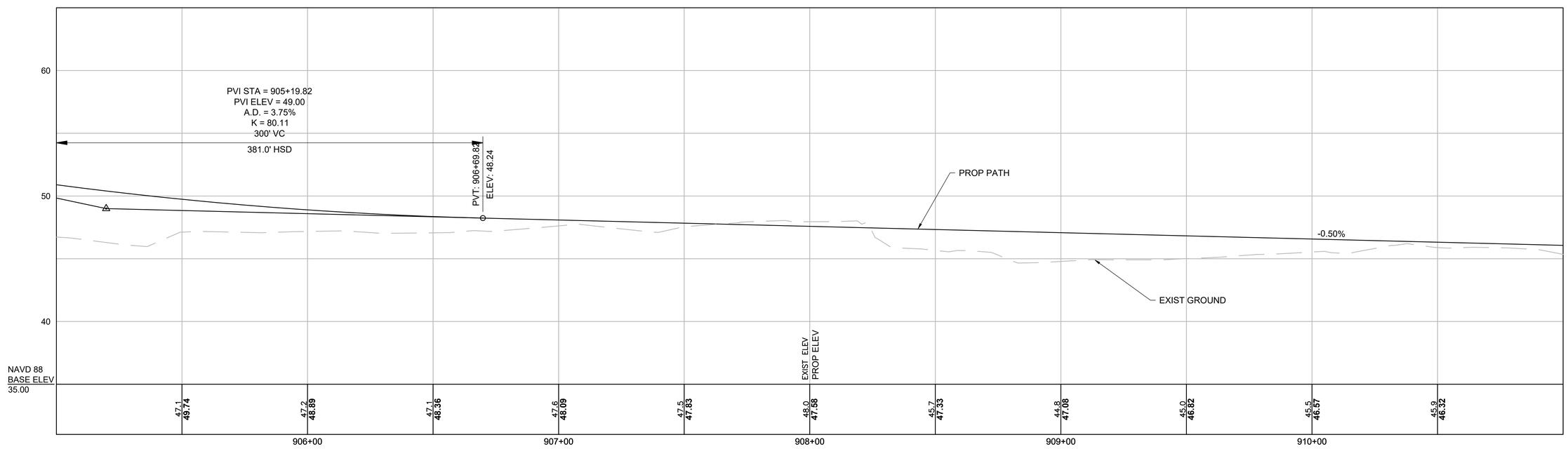
RET EX STONE SWALE
APPROX LIMIT OF CLEARING & GRUBBING
RETAIN SHED
RET & PROTECT TREES (4)
PROP TEMP TREE PROTECTION FENCE
RET TREES
RET & PROTECT TREE
REM TREE
APPROX LIMIT OF GRADING
RET TREE
PROP CRUSHED STONE SHOULDER
PROP TIMBER RAIL
APPROX LIMIT OF GRADING (TYP)
R&R GRAN CURB +26 TO +65 LT
PROP SAWCUT MEET AND MATCH EXIST PAVEMENT
RET HMA BERM
LIMIT OF 100' BUFFER TO BVW
PROP LOAM & SEED
PROP PERM EASEMENT
RET EX WALL
PROP TEMP EASEMENT
PROP 12' HMA SHARED-USE PATH
RET CONC PAD & CONTAINER
PROP VA4 CURB 8" REVEAL +28 TO + 46
RET EX WALL RET CLF
REM TREE (3)
APPROX LIMIT OF CLEARING & GRUBBING
RET EX CURB
BELMONT COMMUNITY PATH CONST ℄
RET
+00.00 END RET WALL
PC +96.78
PT +98.38
907
908
909
910
911
905
906
12.0'
BOS
R&D SHED (BO)
REM EX CLF
APPROX LIMIT OF GRADING (TYP)
PROP TEMP CONST FENCE
LIMIT OF BVW
MBTA/KEOLIS ACCESS (14' MIN)
PROP LOAM & SEED
REM TREES (6) (TYP)
END TIMBER RAIL 910+25
REM EX CLF
END CLF
BEGIN TIMBER RAIL 910+43
PROP TEMP TREE PROTECTION FENCE
RET & PROTECT TREE
PROP CLEAR AND GRUBBING 910+50 TO 911+10
LIMIT OF 100' BUFFER TO BVW
PROP 12' HMA SHARED-USE PATH
PROP LOAM & SEED
PROP TEMP FENCE
PROP TEMP EASEMENT
PROP PERM EASEMENT
PROP CLEAR AND GRUBBING 900+40 TO 908+25
PROP CLF 905+00 TO 910+43 RT
LIMIT OF 100' BUFFER TO BVW
MBTA LAYOUT
+00.00 END RET WALL
RET

MBTA FITCHBURG LINE

#710 #692 #460 #450

710 PLEASANT ST N/F GRACE TR ANNE ELVINS BK. 13566 PG. 0601 PID 31-4
692 PLEASANT ST N/F BUELLETE IAN BK. 65308 PG. 117 PID 31-5-6
460 CONCORD AVE N/F INHABITANTS OF BELMONT BK. 11968 PG. 264 PID 31-1-B
450 CONCORD AVE N/F INHABITANTS OF BELMONT BK. 129 PG. 429 PID 31-1-C
440 CONCORD AVE N/F INHABITANTS OF BELMONT BK. 1184 PG. 307 PID 31-1-D
720R PLEASANT ST N/F MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 0113 PID 31-2-A

0 20 50 100



CONTINUED ON SHEET NO. 33

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

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	33	186
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS

PROP TIMBER RAIL 910+43 TO 912+55 RT
PROP TIMBER RAIL 912+64 TO 913+63 RT
PROP TIMBER RAIL 912+63 TO 913+61 LT
PROP TIMBER RAIL 914+70 TO 915+77 LT
PROP TIMBER RAIL 50+02 TO 51+20 LT

TRAFFIC SIGNAL CONDUIT

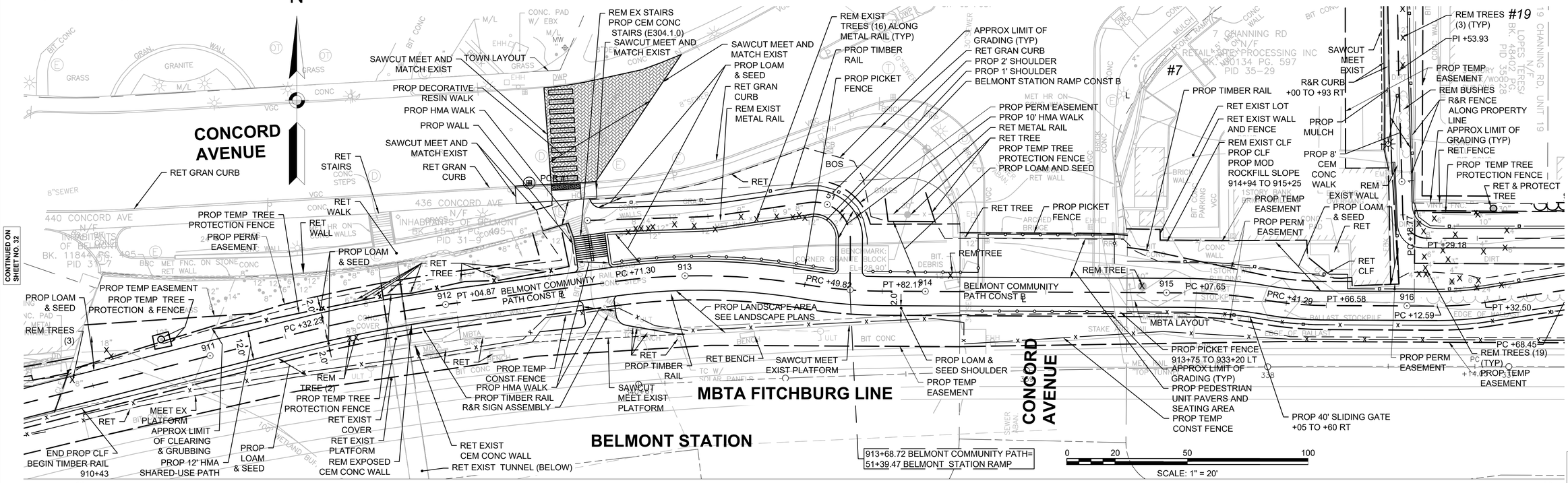
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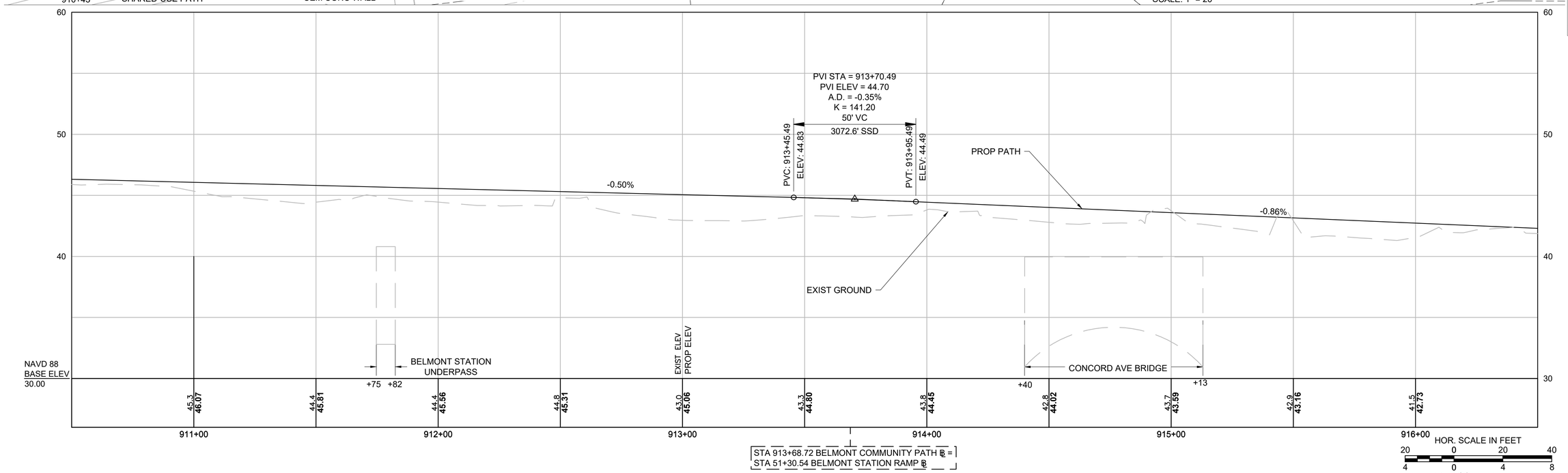
WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 60





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CHANNING ROAD

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	34	186
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS

PROP TIMBER RAIL 915+98 TO 916+90 LT
PROP TIMBER RAIL 916+93 TO 931+20 LT
PROP TIMBER RAIL 1+10 TO 2+12 LT

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 60

N

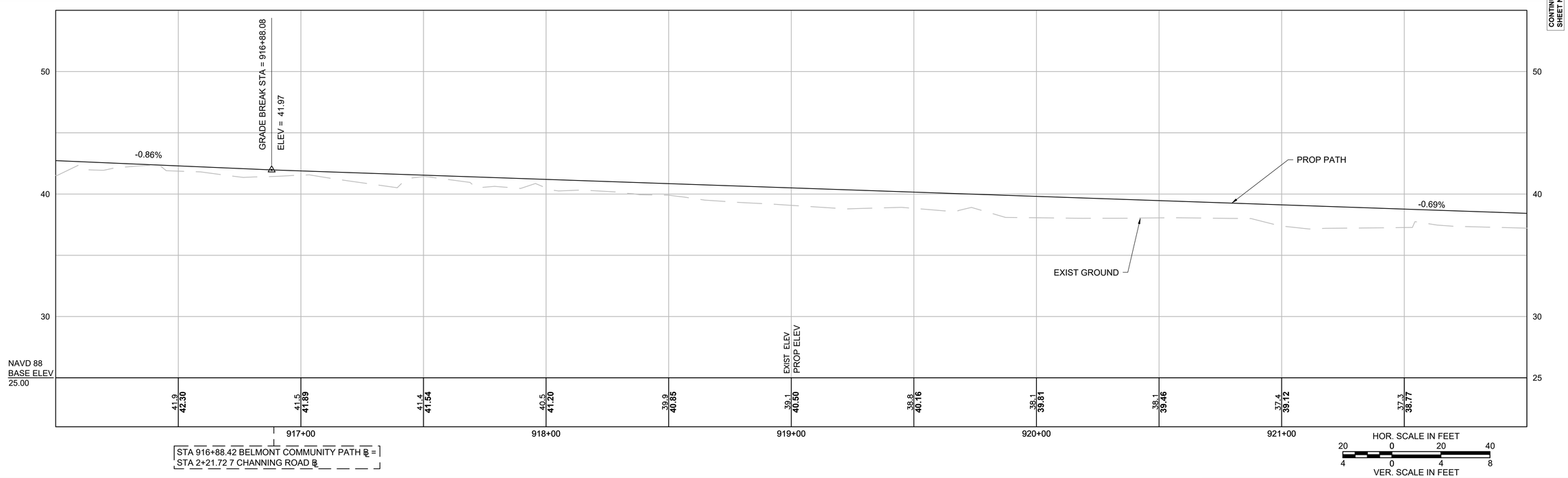
MEET EXIST SIDEWALK
PROP MULCH
#7 CHANNING ROAD CONST ℄
REM EX SHRUB
PROP PERM EASEMENT
REM EX TREES (4)
SAWCUT MEET EXIST
PI +53.93
R&R CURB +00 TO +93 RT
PROP TEMP EASEMENT
REM EX LIGHT
REM EX SHRUB
R&R FENCE ALONG PROPERTY LINE 0+00 TO +09 LT
PROP 8' HMA WALK
APPROX LIMIT OF GRADING (TYP)
PROP LP
RET FENCE
RET SHED
RET & PROTECT TREE
PROP TEMP TREE PROTECTION FENCE
PROP TIMBER RAIL
RET FENCE
PROP LOAM & SEED
REM EX WALL
PROP FENCE 0+92 TO 1+25 RT
BELMONT CITIZENS FORUM
MEET EXIST BLDG ELEV
PT +29.18
PT +12.82
PT +08.25
PT +66.58
PC +12.59
PT +32.50
PC +68.45
REM TREES (19) (TYP)
PC +14.86
PROP TEMP EASEMENT
PROP PERM EASEMENT
9' MIN CLEARANCE FROM TRACKS
PROP 40' SLIDING GATE +29 TO +82 RT
PROP LOAM & SEED
916+87.53 BELMONT COMMUNITY PATH= 2+21.72 ℄ CHANNING ROAD
PROP TEMP EASEMENT
APPROX LIMIT OF GRADING (TYP)
PROP PERM EASEMENT
PROP TEMP CONST FENCE
PROP CLEARING AND GRUBBING 916+00 TO 932+75
MBTA/KEOLIS ACCESS (14' MIN)
PROP LOAM & SEED
APPROX LIMIT OF CLEARING & GRUBBING
PROP GRASS SWALE 917+09 TO 932+63 LT
APPROX LIMIT OF GRADING (TYP)
BELMONT COMMUNITY PATH CONST ℄
RET & PROTECT TREES
REM TREES (10) (TYP)
PROP 12' HMA SHARED-USE PATH
PROP LOAM & SEED SHOULDER
PROP TEMP EASEMENT
BELMONT CITIZENS FORUM
RET & PROTECT TREES
PROP CLF 913+75 TO 933+20 LT
REM TREES (4) (TYP)
RET & PROTECT TREES
APPROX LIMIT OF CLEARING & GRUBBING
PROP TEMP TREE PROTECTION FENCE
REM TREES (8) (TYP)
MBTA CHANNING RD
BELMONT CITIZENS FORUM
BK. 51653, PG. 12
PID 35-14-A

#19 LOPES N/F TERESA P BK. 46402, PG. 168 PID 35-28 19 CHANNING RD, UNIT 19
#23-25 DATTU TE DARTUSH P N/F BK. 53545, PG. 580 PID 35-27 23-25 CHANNING RD
#29 FUNKENSTEIN TE AMY N/F BK. 31896, PG. 322 PID 35-26 29 CHANNING RD, UNIT 2
#31-33 SCHILLING PETER M BK. 30658, PG. 3 PID 35-25 31-33 CHANNING RD
#35 STANLEY CICALESE JULIE M N/F BK. 25672, PG. 125 PID 35-24 35 CHANNING RD, UNIT 35
#39 PARSONS IAN REVOCABLE TRUST OF 2018 BK. 71760, PG. 187 PID 35-23 39 CHANNING RD, UNIT 2
#45-47 GALLOWAY CRAIG R BK. 49176, PG. 429 PID 35-22 45-47 CHANNING RD
#49-51 FAN TE ZHIMING BK. 28701, PG. 213 PID 35-21 49-51 CHANNING RD
#53 BRUNO MARION REVOCABLE TRUST BK. 13560, PG. 0743 PID 35-20 53 CHANNING RD
#57-59 ATINIZ NIGGOS BK. 18541, PG. 283 PID 35-19 57-59 CHANNING RD
#61-63 MURPHY III JAMES PATRICK BK. 18434, PG. 0090 PID 35-18 61-63 CHANNING RD

MBTA FITCHBURG LINE

0 20 50 100
SCALE: 1" = 20'

CONTINUED ON SHEET NO. 33
CONTINUED ON SHEET NO. 35



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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	35	186
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS

PROP TIMBER RAIL 916+93 TO 931+20 LT

TRAFFIC SIGNAL CONDUIT

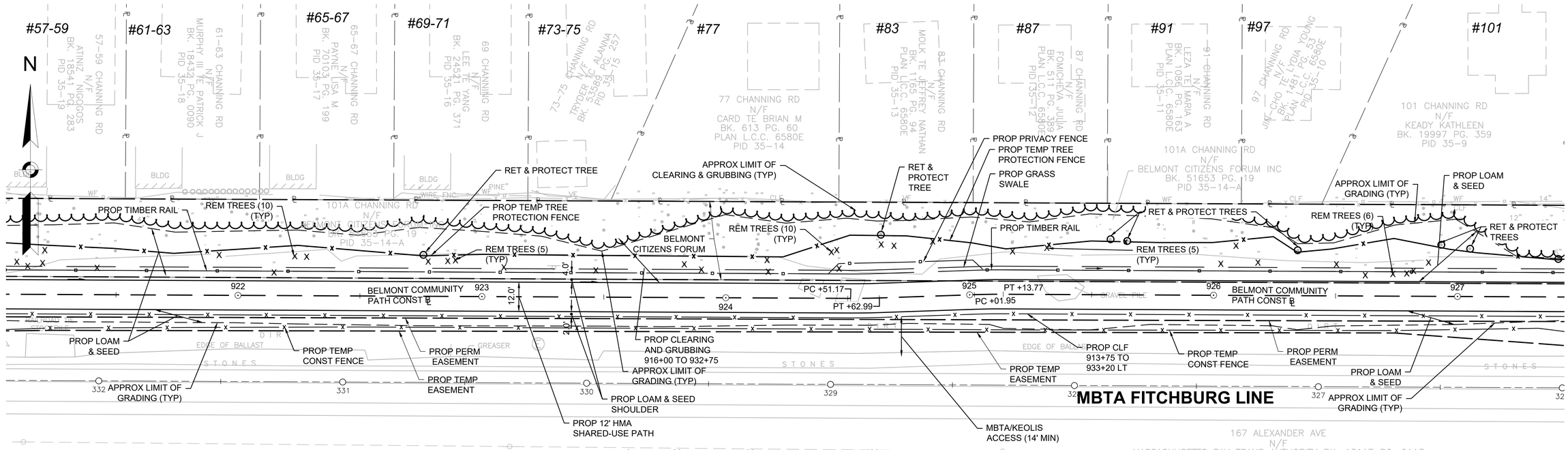
NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 61

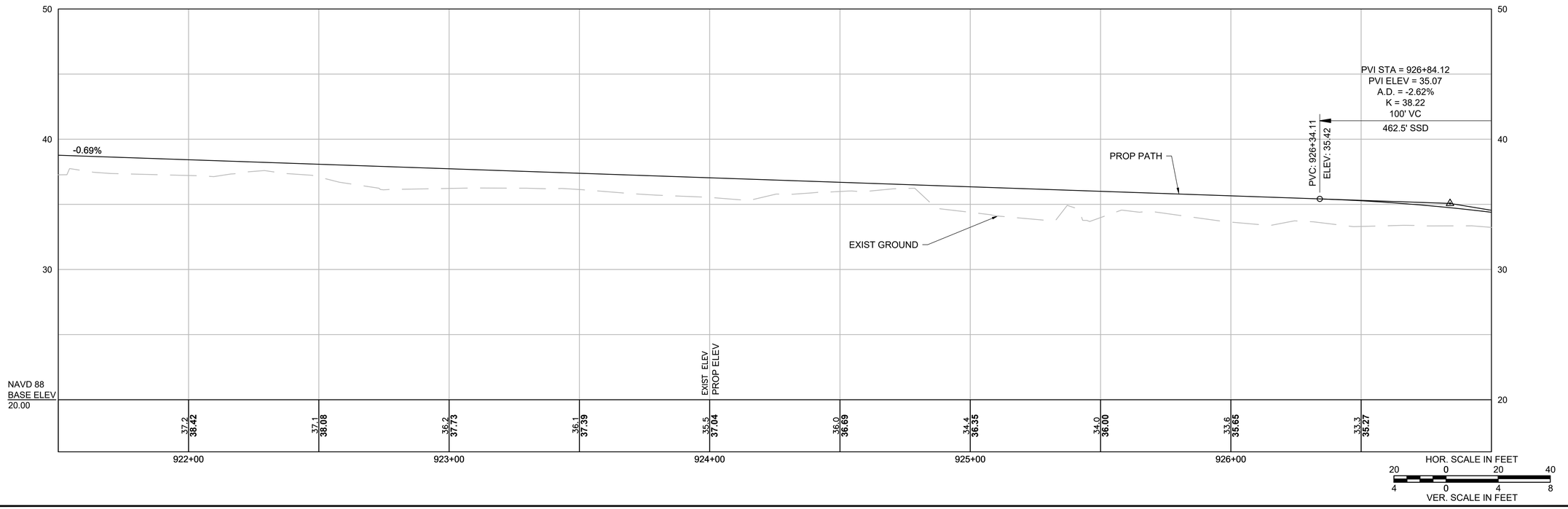


0 20 50 100

SCALE: 1" = 20'

CONTINUED ON SHEET NO. 34

CONTINUED ON SHEET NO. 36



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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	36	186
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
PROP TIMBER RAIL 916+93 TO 931+20 LT	NONE	NONE	SEE SHEET 61

N

#83 #87 #91 #97 #101 #105 #111 #115 #119 #125 #145 (ALEXANDER AVE)

83 CHANNING RD N/F MOLK TE JEFFREY NATHAN BK. 51165 PG. 94 PLAN L.C.C. 6580E PID 35-13

87 CHANNING RD N/F FOMICHEVA JULIA BK. 511 PG. 389 PLAN L.C.C. 6580E PID 35-12

91 CHANNING RD N/F LEZA TE MARIA A BK. 1086 PG. 163 PLAN L.C.C. 6580E PID 35-11

97 CHANNING RD N/F JUN-CHO TE LYDIA YOUNG BK. 1481 PG. 53 PLAN L.C.C. 6580E PID 35-10

101 CHANNING RD N/F KEADY KATHLEEN BK. 19997 PG. 359 PID 35-9

101A CHANNING RD N/F BELMONT CITIZENS FORUM INC BK. 51653 PG. 19 PID 35-14-A

105 CHANNING RD N/F WATTERS LEE MARGARET M BK. 53695 PG. 390 PID 35-8

111 CHANNING RD N/F XIE XIAOYUN BK. 59970 PG. 260 PID 35-7

115 CHANNING RD N/F THOMAS TE SIJU BK. 10356 PG. 414 PID 35-6

119 CHANNING RD N/F ROSSI JOCELYN BK. 07445 PG. 362 PID 35-5

125 CHANNING RD N/F COBUZZI PAUL DAVID BK. 20009 PG. 228 PID 35-4

145 ALEXANDER AVE N/F COBUZZI ROBERT ANTHONY BK. 20865 PG. 0379 PID 35-3

PROP TEMP TREE PROTECTION FENCE
PROP GRASS SWALE 917+09 TO 932+63 LT
REM TREES (7) (TYP)
PROP LOAM & SEED
RET & PROTECT TREES
BELMONT CITIZENS FORUM
APPROX LIMIT OF GRADING (TYP)
RET & PROTECT TREES
PROP TEMP TREE PROTECTION FENCE
R&R PROPANE TANK
PROP CRUSHED STONE SHOULDER
RET & PROTECT TREES
RET & PROTECT TREES
PROP TEMP EASEMENT
PROP TEMP TREE PROTECTION FENCE
RET & PROTECT TREES

925 PT +13.77 PC +01.95
926
BELMONT COMMUNITY PATH CONST ℄
927
928
BELMONT COMMUNITY PATH CONST ℄
929
PC +04.76
930
PT +49.97
931
CONTINUED ON SHEET NO. 37

GRAVEL/DIRT
EDGE OF BALLAST
SIGNAL TOWER
ENGINE HSE
ROLLING BLOCK (TYP)
STONES
GRAVEL/DIRT
EDGE OF BALLAST

PROP TEMP EASEMENT
PROP TIMBER RAIL
PROP CLF
PROP PERM EASEMENT
PROP TEMP CONST. FENCE
PROP LOAM & SEED
PROP CLEARING AND GRUBBING 916+00 TO 932+75
APPROX LIMIT OF GRADING (TYP)
PROP PERM EASEMENT
MBTA/KEOLIS ACCESS (14' MIN)
PROP 30' SLIDING GATE +50 TO +80 RT
PROP TEMP EASEMENT
PROP PERM EASEMENT
REM TREES (21) (TYP)
PROP TIMBER RAIL
PROP 12' HMA SHARED-USE PATH
PROP GRASS SWALE 917+09 TO 932+63 LT
PROP PERM EASEMENT

326 327 325 324 323

MBTA FITCHBURG LINE

MBTA/KEOLIS ACCESS (14' MIN)

167 ALEXANDER AVE N/F MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 0113 PID 35-39

SIGNAL TOWER

0 20 50 100
SCALE: 1" = 20'

CONTINUED ON SHEET NO. 35

PVI STA = 926+84.12
PVI ELEV = 35.07
A.D. = -2.62%
K = 38.22
100' VC
462.5' SSD

-0.69%
PVC: 926+34.11
ELEV: 35.42
PVT: 927+34.12
ELEV: 33.42

-0.69 %
-3.31%
EXIST GROUND
PROP PATH

NAVD 88
BASE ELEV
15.00

EXIST ELEV
PROP ELEV

926+00	927+00	928+00	929+00	930+00
34.0 / **36.00**	33.6 / **35.65**	33.3 / **35.27**	33.2 / **34.39**	32.4 / **32.89**
32.6 / **31.24**	32.0 / **29.58**	31.3 / **27.93**	31.3 / **26.27**	31.1 / **24.62**

40 30 20 15

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

CONTINUED ON SHEET NO. 38

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	37	186
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
PROP TIMBER RAIL 916+93 TO 931+20 LT PROP TIMBER RAIL 935+16 TO 953+45 LT	NONE	NONE	SEE SHEET 62

N

CHANNING ROAD

ALEXANDER AVENUE

MBTA FITCHBURG LINE

BELMONT MIDDLE AND HIGH SCHOOL

#119 — 119 CHANNING RD N/F ROSSI JOCELYN BK. 07445 PG. 362 PID 35-5

#125 — 125 CHANNING RD N/F COBUZZI PAUL DAVID BK. 20009 PG. 228 PID 35-4

#145 (ALEXANDER AVE) — 145 ALEXANDER AVE N/F COBUZZI ROBERT ANTHONY BK. 20865 PG. 0379 PID 35-3

#159 (ALEXANDER AVE) — 159 ALEXANDER AVE N/F SCARFO JAMES J BK. 8116 PG. 485 PID 35-1

101A CHANNING RD N/F BELMONT CITIZENS FORUM INC BK. 51653 PG. 19 PID 35-14-A

145 CHANNING RD N/F HEALEY TE PAUL BK. 41373 PG. 546 PID 37-92

#145 — 145 CHANNING RD N/F HEALEY TE PAUL BK. 41373 PG. 546 PID 37-92

#153 — 153 CHANNING RD N/F MORIN TE KARA A BK. 53096 PG. 515 PID 37-91

#159 — 159 CHANNING RD N/F LESHANE TRS JOHN & JOHN J JR BK. 60501 PG. 86 PID 37-90

167 ALEXANDER AVE N/F MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 0113 PID 35-39

101B CHANNING RD N/F MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 113 PID 35-42

PC +12.36
PT +27.04
PC +34.68
PT +105.61
PC +77.76
PT +85.93
PI +93.80
933+19.69 BELMONT COMMUNITY PATH=
502+04.30 ALEXANDER AVE SPUR
PC +04.76
PT +49.97
PC +44.99
PT +82.67
PT +59.47
PC +09.99
PI +19.69
PI +97.45
PC +26.61
PT +30.56
PC +16.78
PT +32.95
PC +75.99
PT +18.43
+64.97 BEGIN RET WALL
+83.76 BEGIN RET WALL
+07.60 BEGIN RET WALL
+25.00 BEGIN RET WALL
+25.05 END RET WALL
+16.08 END RET WALL
END PROP TIMBER RAIL 931+20 LT
PROP SAWCUT MEET AND MATCH EXIST PAVEMENT +09.42
ALEXANDER AVE SPUR CONST B
BELMONT COMMUNITY PATH CONST B
PROP LIGHT POLE, TYP SEE LIGHTING PLANS SHEET 61-63
PROP TEMP EASEMENT
APPROX LIMIT OF CLEAR AND GRUBBING (TYP)
PROP LOAM & SEED
REM TREE (2)
APPROX LIMIT OF GRADING (TYP)
PROP 10' HMA SHARED-USE PATH
REM EXIST FENCE
PROP STAMPED PAVEMENT
PROP STAMPED ASPHALT 24' Ø CENTRAL ISLAND
APPROX LIMIT OF CLEARING & GRUBBING (TYP)
RET SHED
PROP CLF MOUNTED ON RET WALL 501+25 TO 935+16 LT
PROP 12' HMA SHARED-USE PATH
R&D EXIST FENCE
PROP TEMP EASEMENT
PROP CLEARING AND GRUBBING 501+25 TO 944+55 LT
PROP TEMP TREE PROTECTION FENCE
RET & PROTECT TREES
RET & PROTECT TREE
PROP TEMP EASEMENT
PROP CLEARING AND GRUBBING 916+00 TO 932+75
BELMONT CITIZENS FORUM
PROP TEMP EASEMENT
R&D EXIST FENCE
PROP CLF MOUNTED ON RET WALL (TYP)
REM TREE
R&D EXIST FENCE
PROP STAMPED ASPHALT
R&R PROPANE TANK
PROP FENCE MOUNTED ON WALL
PROP CLF MOUNTED ON WALL
R&R PROPANE TANK
PROP STAMPED ASPHALT
PROP LOAM & SEED
PROP CRUSHED STONE SHOULDER
PROP PERM EASEMENT
RET MBTA SIGNAL EQUIPMENT ON CONC PAD
PROP LOAM & SEED
PROP STAMPED ASPHALT
PROP CLF MOUNTED ON WALL 933+31 TO 933+61 RT
PROP PERM EASEMENT
PROP UNDERPASS SEE STRUCTURAL DETAILS
+83.76 BEGIN RET WALL
MBTA LAYOUT
PROP TEMP CONST FENCE
RET BUILDING
PROP TEMP EASEMENT
RET CLF
RET EX WALL
PROP TEMP CONST FENCE
PROP TEMP EASEMENT
REM CLF
REM EXIST WALL
PROP CLF MOUNTED ON RET WALL (TYP)
PROP LOAM & SEED SHOULDER APPROX LIMIT OF GRADING (TYP)
RET GRAN CURB
PROP 10' HMA SHARED-USE PATH
RET EXIST LP
APPROX LIMIT OF GRADING (TYP)
R&D EXIST FENCE
PROP TEMP CONST FENCE
PROP TEMP EASEMENT
REM TREES (20) (TYP)
PROP GRASS SWALE 917+09 TO 931+40 LT
PROP LOAM & SEED
PROP TIMBER RAIL
MBTA/KEOLIS ACCESS (14' MIN)
PROP PERM EASEMENT
REM TREES (14) (TYP)
PROP RET WALL

CONTINUED ON SHEET NO. 36
CONTINUED ON SHEET NO. 40
CONTINUED ON SHEET 45
SEE SHEETS 38 & 39 FOR PROFILES

0 20 50 100
SCALE: 1" = 20'

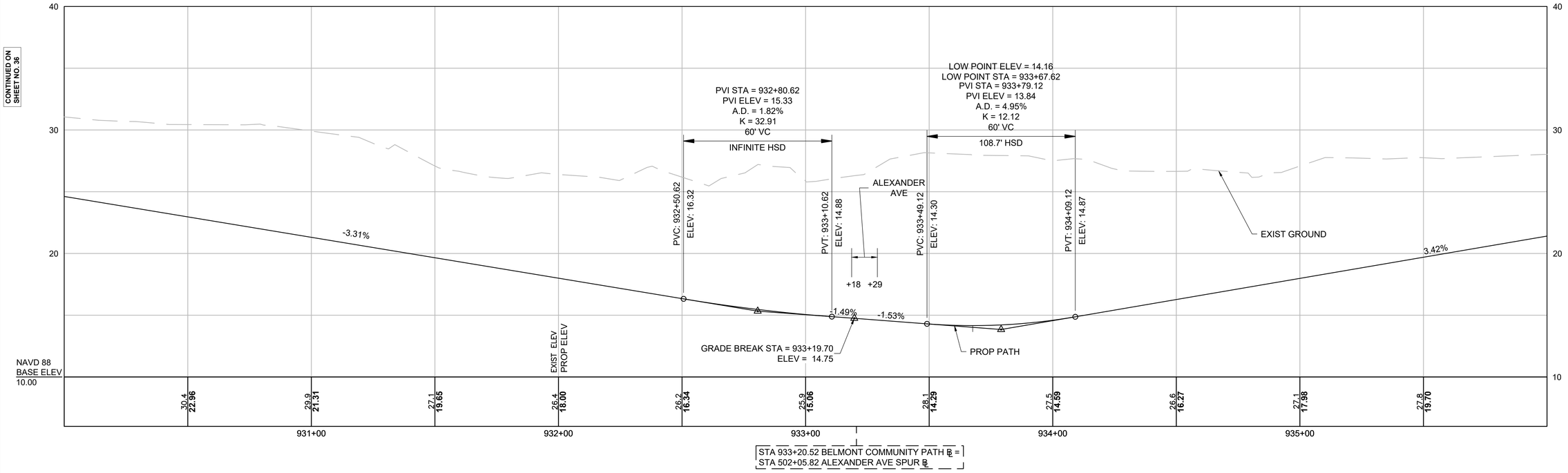
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	38	186
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

BELMONT COMMUNITY PATH



CONTINUED ON SHEET NO. 36

CONTINUED ON SHEET NO. 40

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

SEE SHEET 37 FOR CONSTRUCTION PLAN

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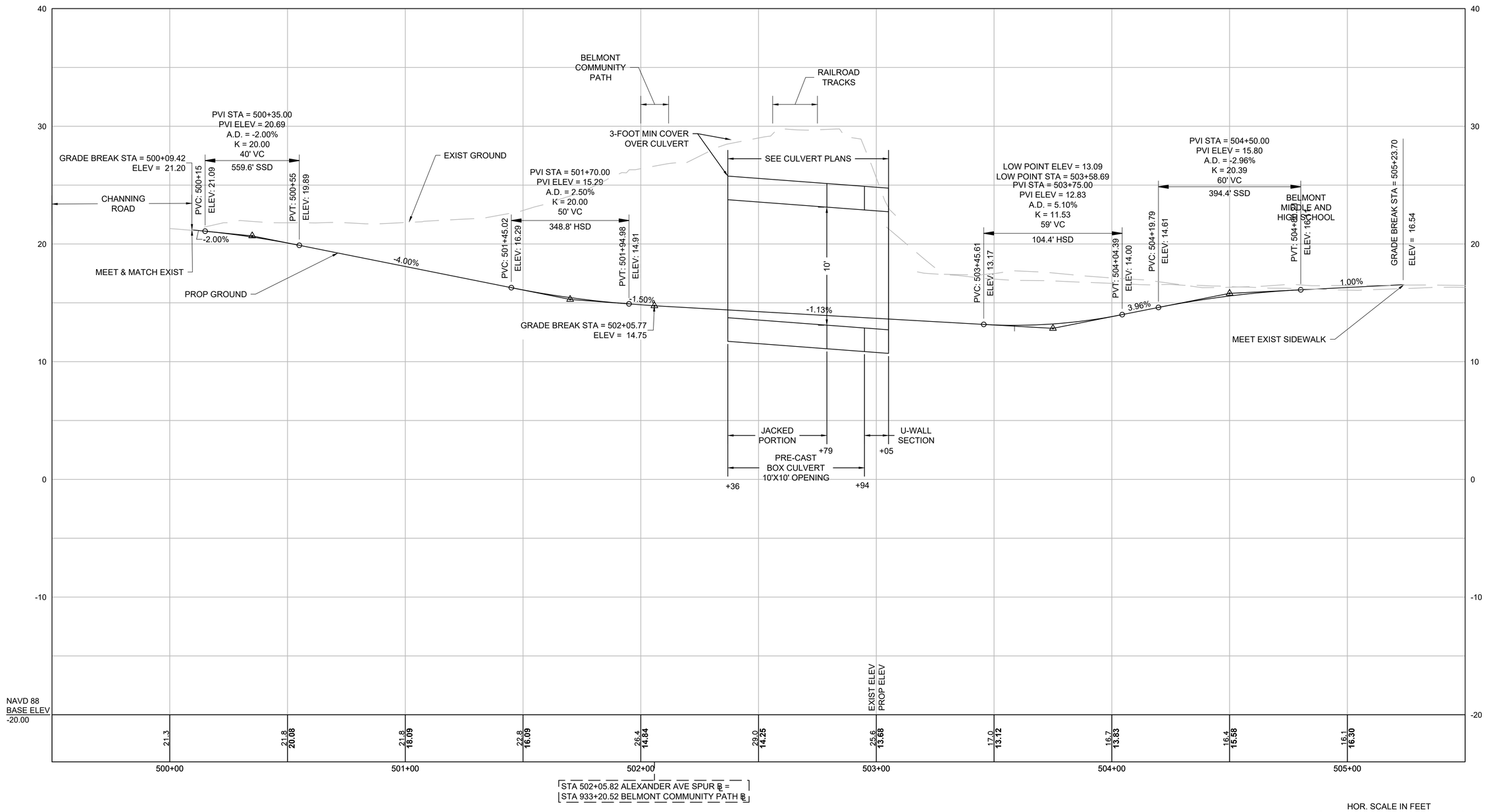
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	39	186
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

ALEXANDER AVE SPUR



CONTINUED ON SHEET NO. 45

STA 502+05.82 ALEXANDER AVE SPUR ℄ =
STA 933+20.52 BELMONT COMMUNITY PATH ℄

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

SEE SHEET 37 FOR CONSTRUCTION PLAN

609204_HD(CONST-VIEW).DWG Plotted on ---- ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	40	186
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

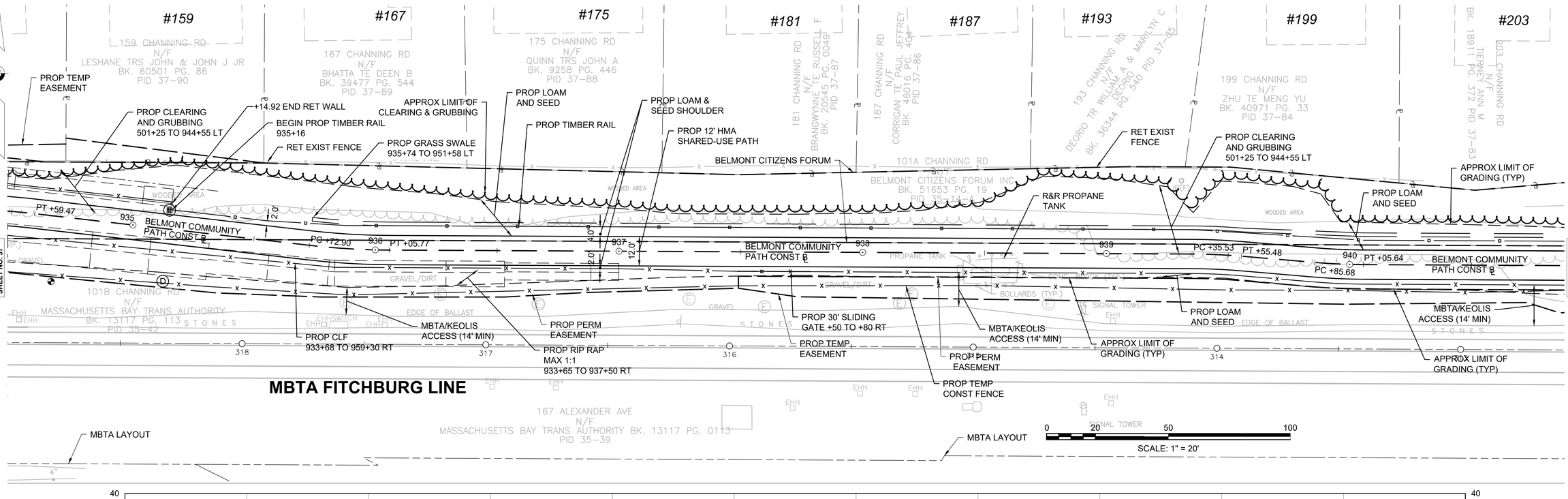
HIGHWAY GUARD DETAILS
PROP TIMBER RAIL 935+16 TO 953+45 LT

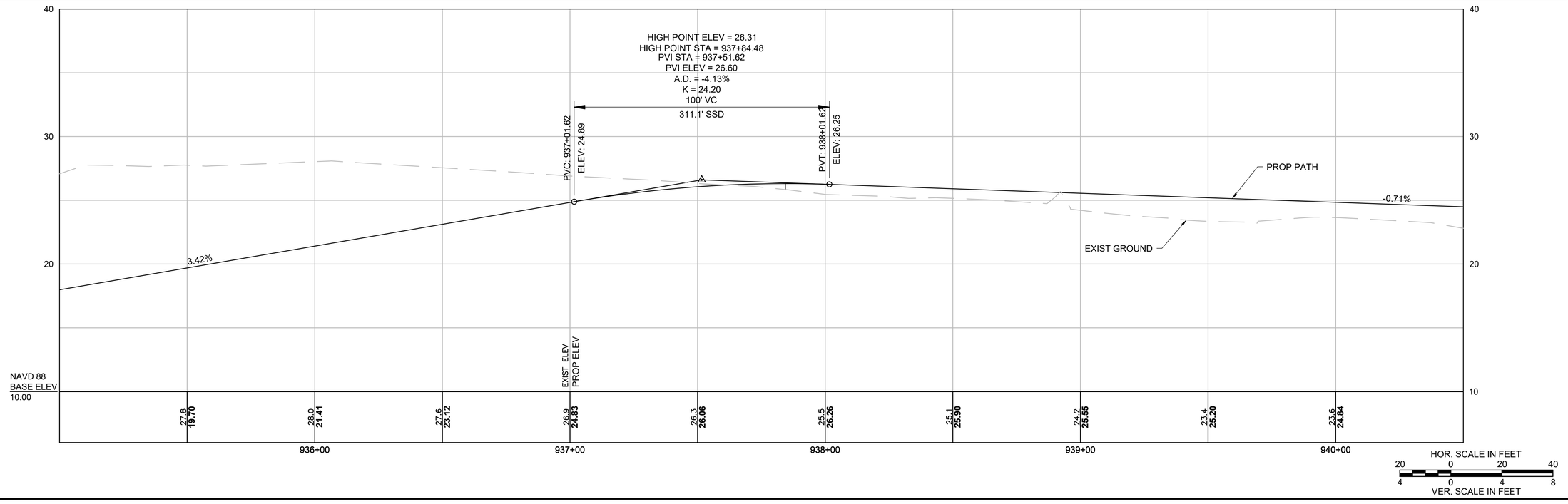
TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
SEE SHEET 63

N





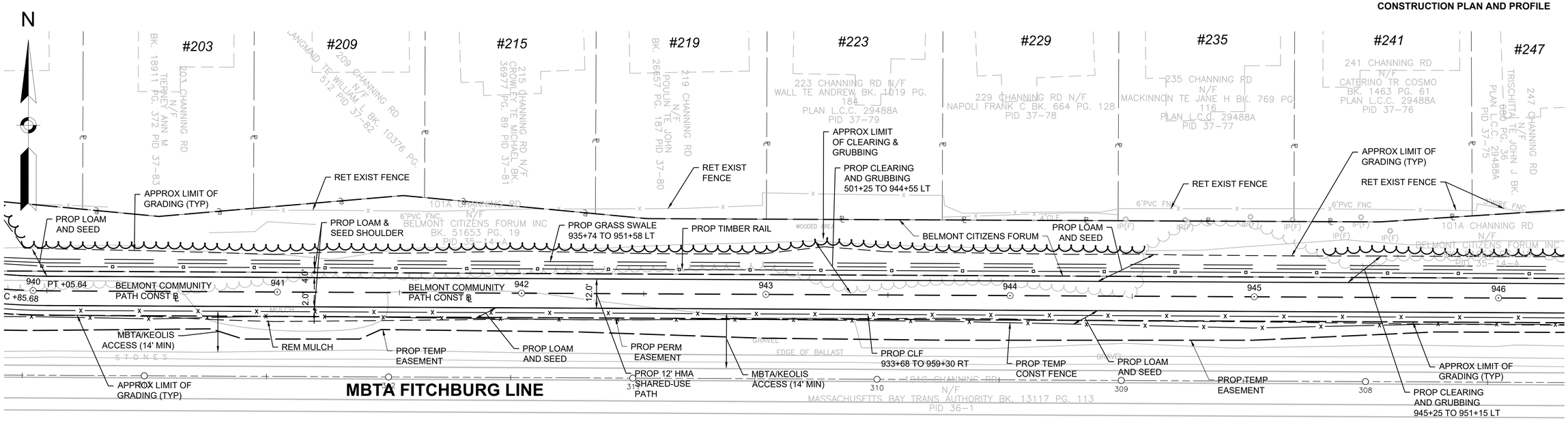
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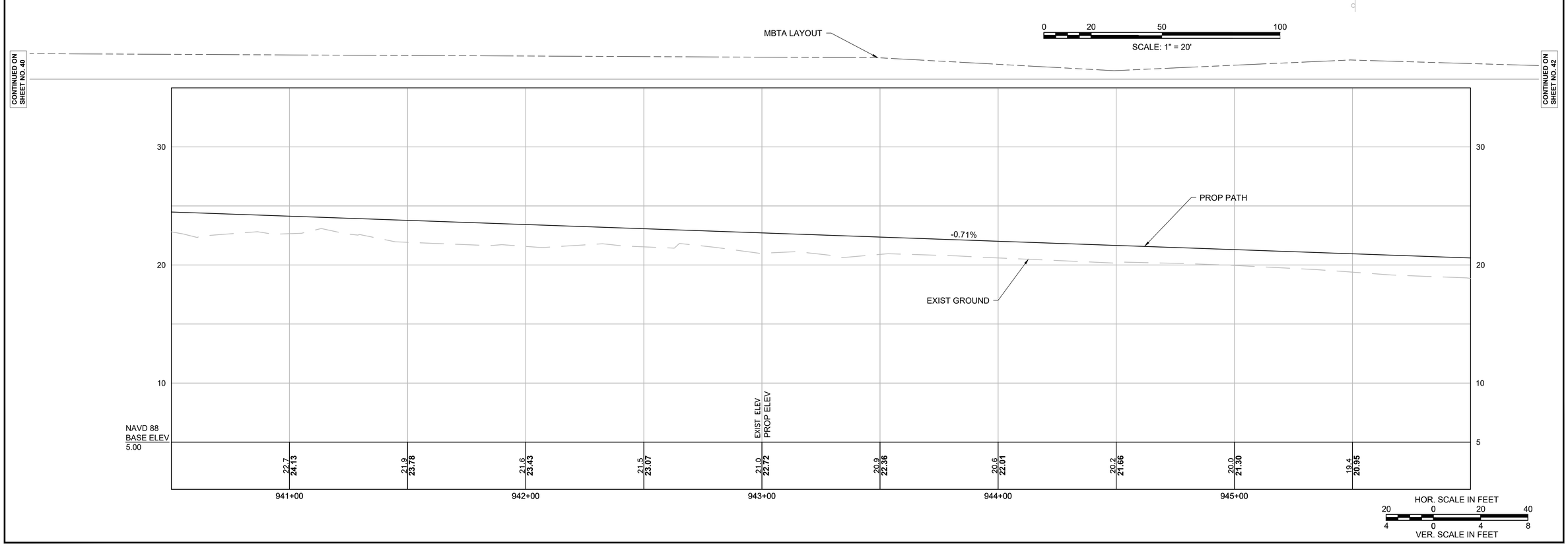
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	41	186
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
PROP TIMBER RAIL 935+16 TO 953+45 LT	NONE	NONE	SEE SHEET 63





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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	42	186
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
PROP TIMBER RAIL 935+16 TO 953+45 LT	NONE	NONE	SEE SHEET 64

N

#241 241 CHANNING RD N/F CATERINO TR COSMO BK. 1463 PG. 61 PLAN L.C.C. 29488A PID 37-76

#247 247 CHANNING RD N/F TRISCHITTA TE JOHN J BK. 680 PG. 36 PLAN L.C.C. 29488A PID 37-75

#253 253 CHANNING RD N/F TSANG TE STEPHEN BK. 1161 PG. 109 PLAN L.C.C. 29488A PID 37-74

#259 259 CHANNING RD N/F DEMETROPOULOS, JAMES J BK. 1211 PG. 55 PLAN L.C.C. 29488A PID 37-73

#265 265 CHANNING RD N/F CORSINO JR TE EDWARD R BK. 678 PG. 194 PLAN L.C.C. 29488A PID 37-72

#271 271 CHANNING RD N/F NOONE TE JOSEPH M BK. 992 PG. 173 PLAN L.C.C. 29488B PID 37-71

#277 277 CHANNING RD N/F RSON LISAAH S BK. 1518 PG. 174 PLAN L.C.C. 29488B PID 37-70

#279 279 CHANNING RD N/F SHEA KEVIN M BK. 23032 PG. 072 PID 37-69

#285 285 CHANNING RD N/F HEAYN TE PAUL BK. 69435 PG. 301 PID 37-68

#291 291 CHANNING RD N/F NOONE ELAINE J BK. 64835 PG. 122 PID 38-45

101A CHANNING RD N/F BELMONT CITIZENS FORUM INC BK. 51653 PG. 19 MD 35-14-A

RET EXIST FENCE
RET SHED
APPROX LIMIT OF GRADING (TYP)
PROP GRASS SWALE 935+74 TO 951+58 LT
PROP CLEARING AND GRUBBING 945+25 TO 951+15 LT
PROP 12' HMA SHARED-USE PATH
PROP LOAM & SEED SHOULDER
PROP LOAM AND SEED
APPROX LIMIT OF CLEARING AND GRUBBING
BELMONT CITIZENS FORUM
PROP TIMBER RAIL
PROP CLEARING AND GRUBBING 945+25 TO 951+15 LT
RET FENCE
BELMONT COMMUNITY PATH CONST
PROP TEMP CONST FENCE
PROP CLF GRAVEL 933+68 TO 959+30 RT
PROP TEMP EASEMENT
PROP PERM EASEMENT
MBTA/KEOLIS ACCESS (14' MIN)
REM EXIST ABAN RAIL
PROP 40' SLIDING GATE 951+06 TO 951+46
PC +62.84
PT +97.51
PC +44.48

946 947 948 949 950 951 308 307 306 305 304 303 302

MBTA FITCHBURG LINE

MBTA LAYOUT

0 20 50 100
SCALE: 1" = 20'

CONTINUED ON SHEET NO. 41
CONTINUED ON SHEET NO. 43

PVI STA = 950+19.16
PVI ELEV = 17.63
A.D. = -0.42%
K = 239.85
100' VC
2638.4' SSD

PVC: 949+69.16 ELEV: 17.98
PVT: 950+69.16 ELEV: 17.06

PROP PATH
EXIST GROUND
-0.71 %
-1.12 %

NAVD 88 BASE ELEV 5.00

	946+00	947+00	948+00	949+00	950+00	951+00
EXIST ELEV	18.9	18.4	17.9	17.7	17.2	17.0	16.4	16.1	15.6	15.0	15.0
PROP ELEV	20.59	20.24	19.89	19.53	19.18	18.82	18.47	18.12	17.74	17.27	16.72

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

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609204_HD(CONST-VIEW).DWG Plotted on ---- ----

HIGHWAY GUARD DETAILS

PROP TIMBER RAIL 935+16 TO 953+45 LT
PROP TIMBER RAIL 956+57 TO 959+33 LT

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

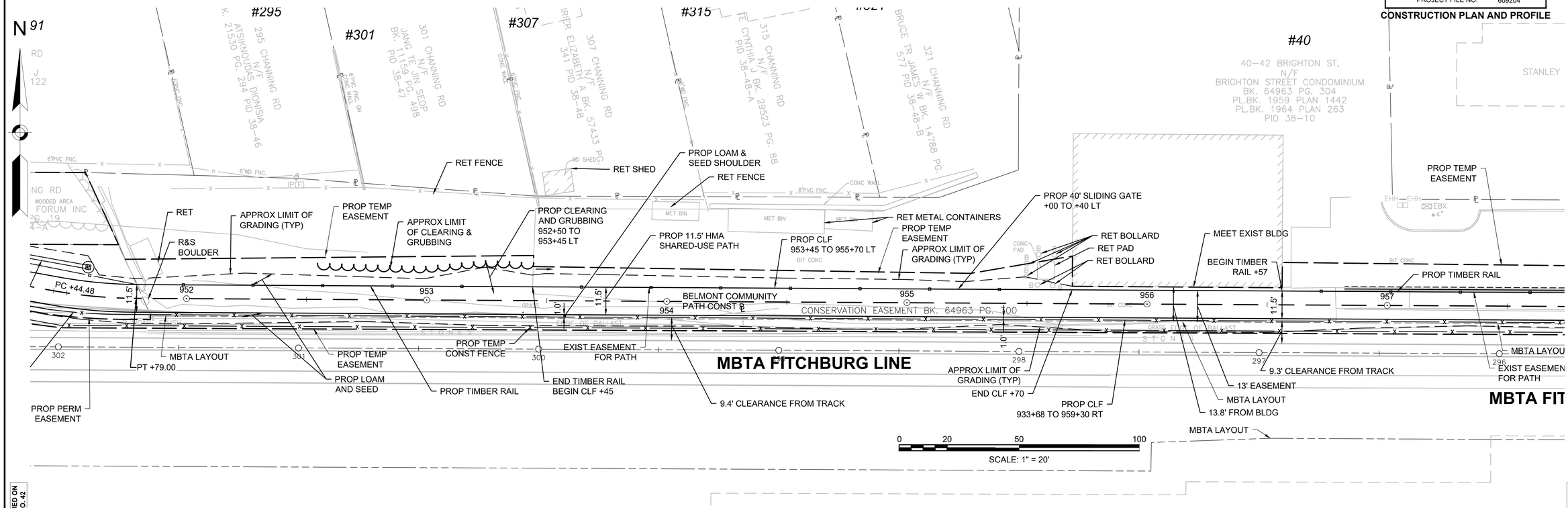
DRAINAGE DETAILS

SEE SHEET 64

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

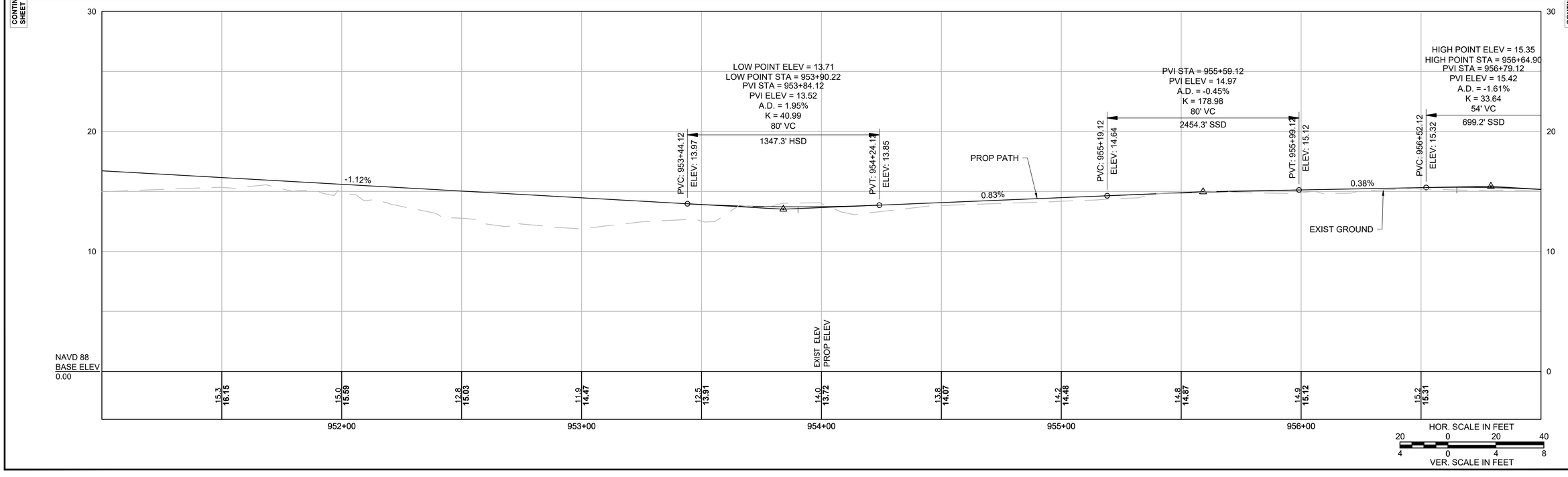
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	43	186
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE



CONTINUED ON SHEET NO. 42

CONTINUED ON SHEET NO. 44



Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(CONST-view).dwg

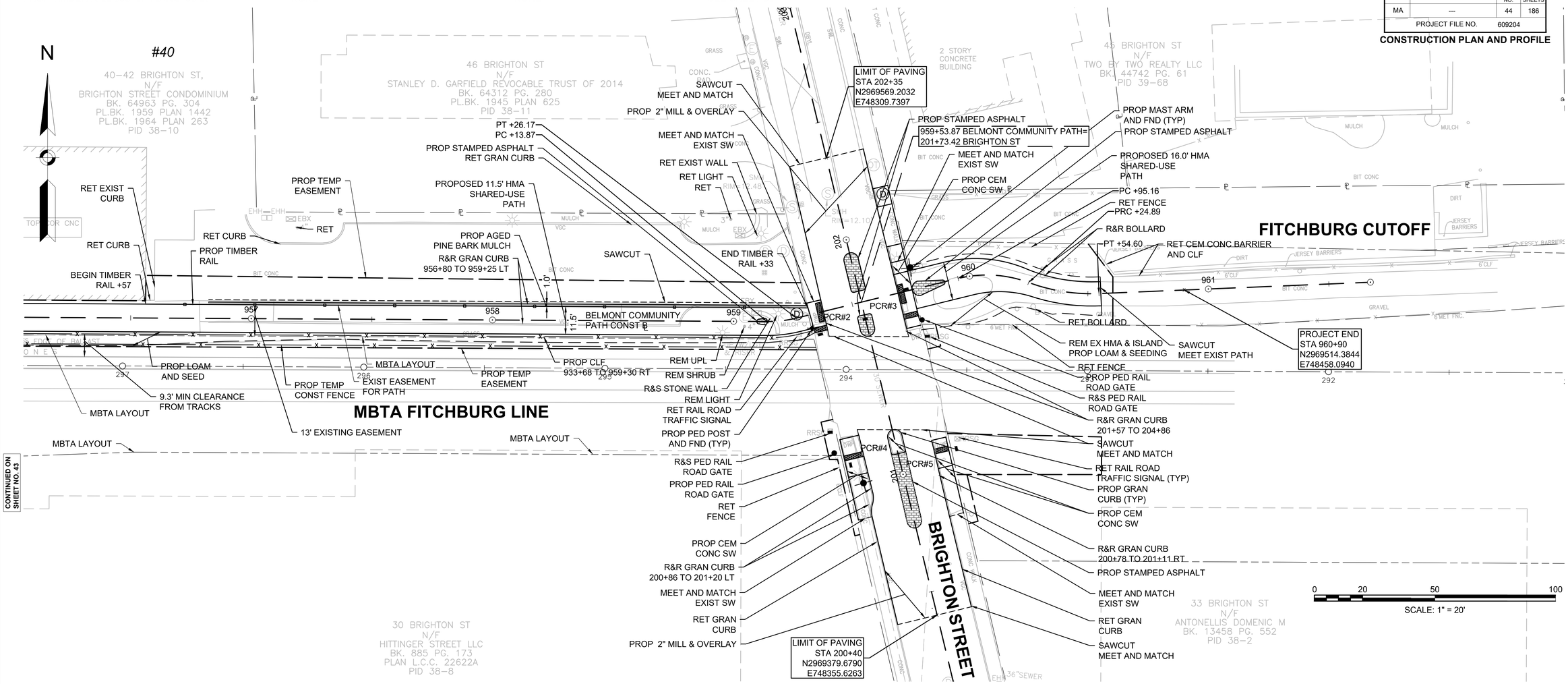
609204_HD(CONST-VIEW).DWG Plotted on ---- ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

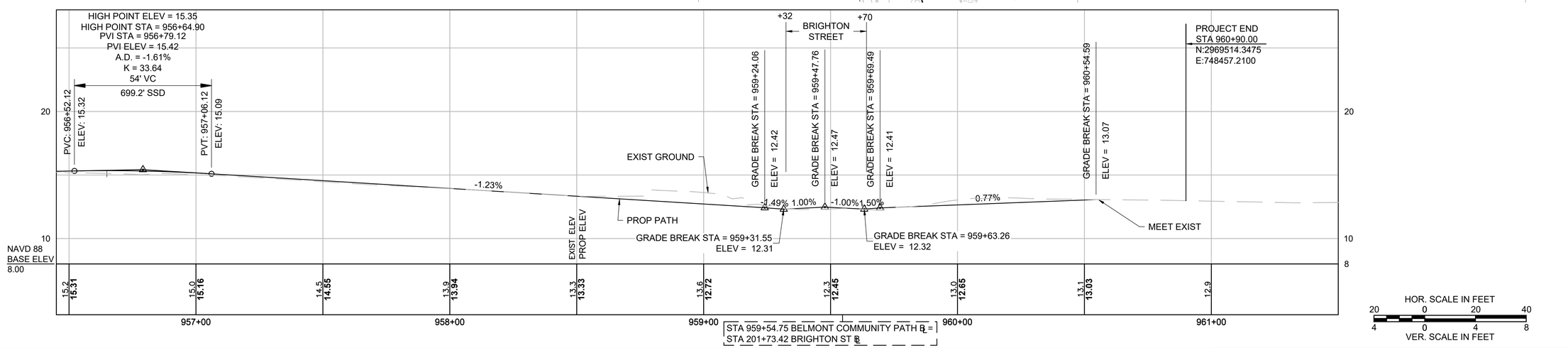
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	44	186
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
PROP TIMBER RAIL 956+57 TO 959+33 LT	NONE	NONE	SEE SHEET 65



CONTINUED ON SHEET NO. 43



Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(CONST-view).dwg ----- 609204_HD(CONST-VIEW).DWG Plotted on ---- ----

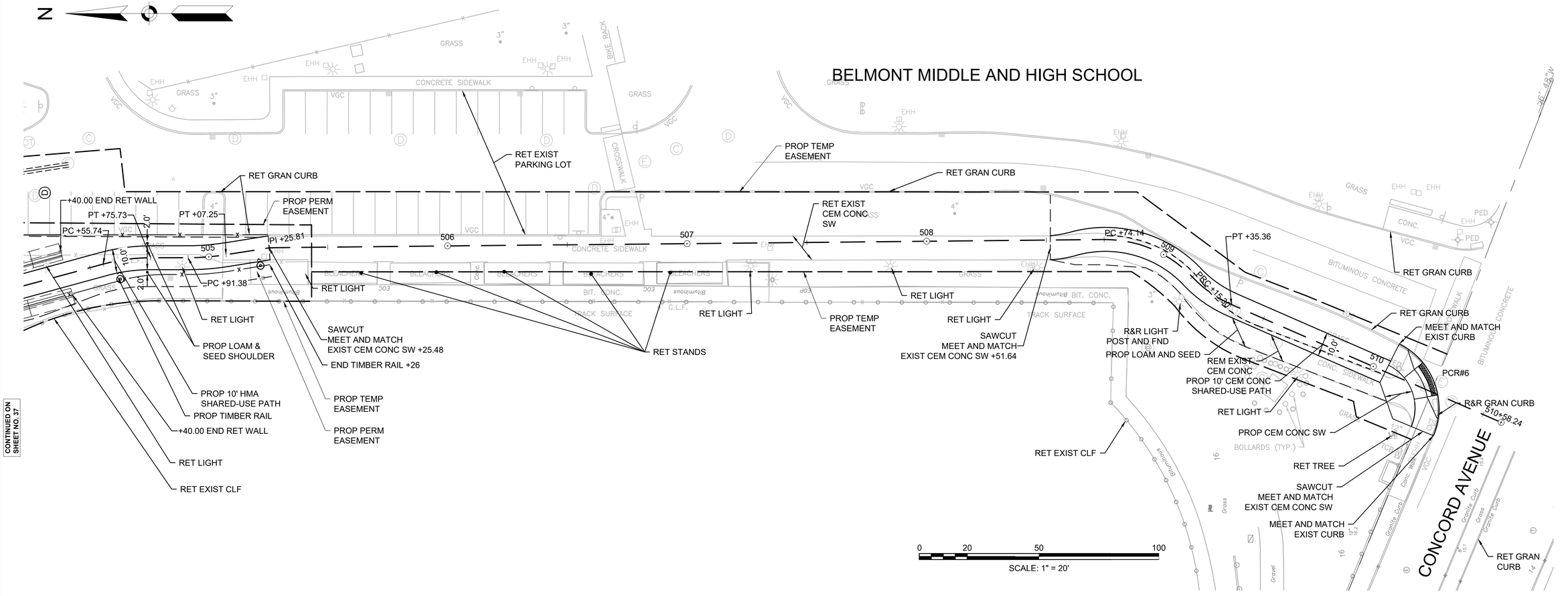
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

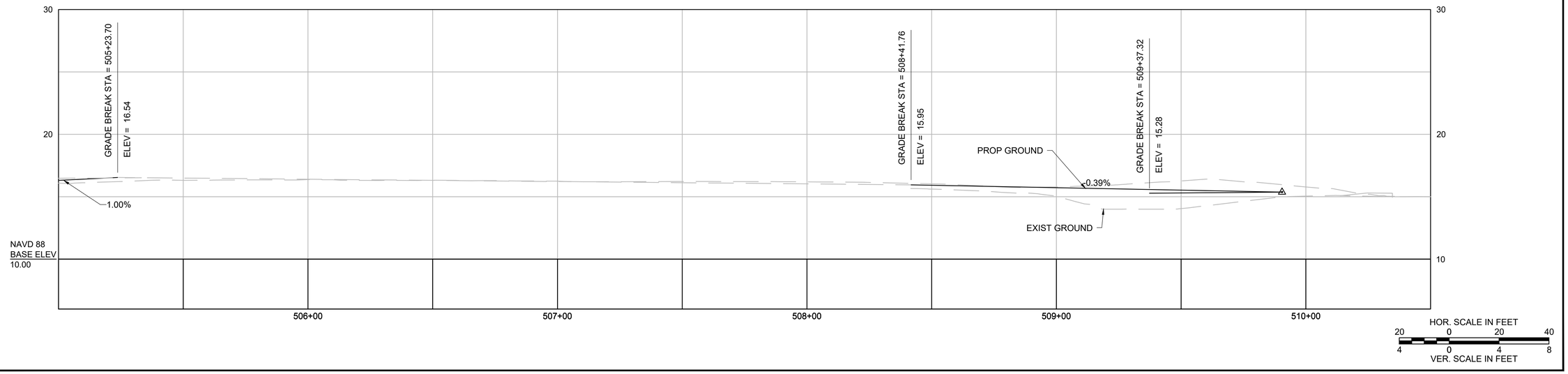
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	45	186
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
PROP TIMBER RAIL 504+04 TO 505+26 RT	NONE	NONE	NONE

CONTINUED ON SHEET NO. 37



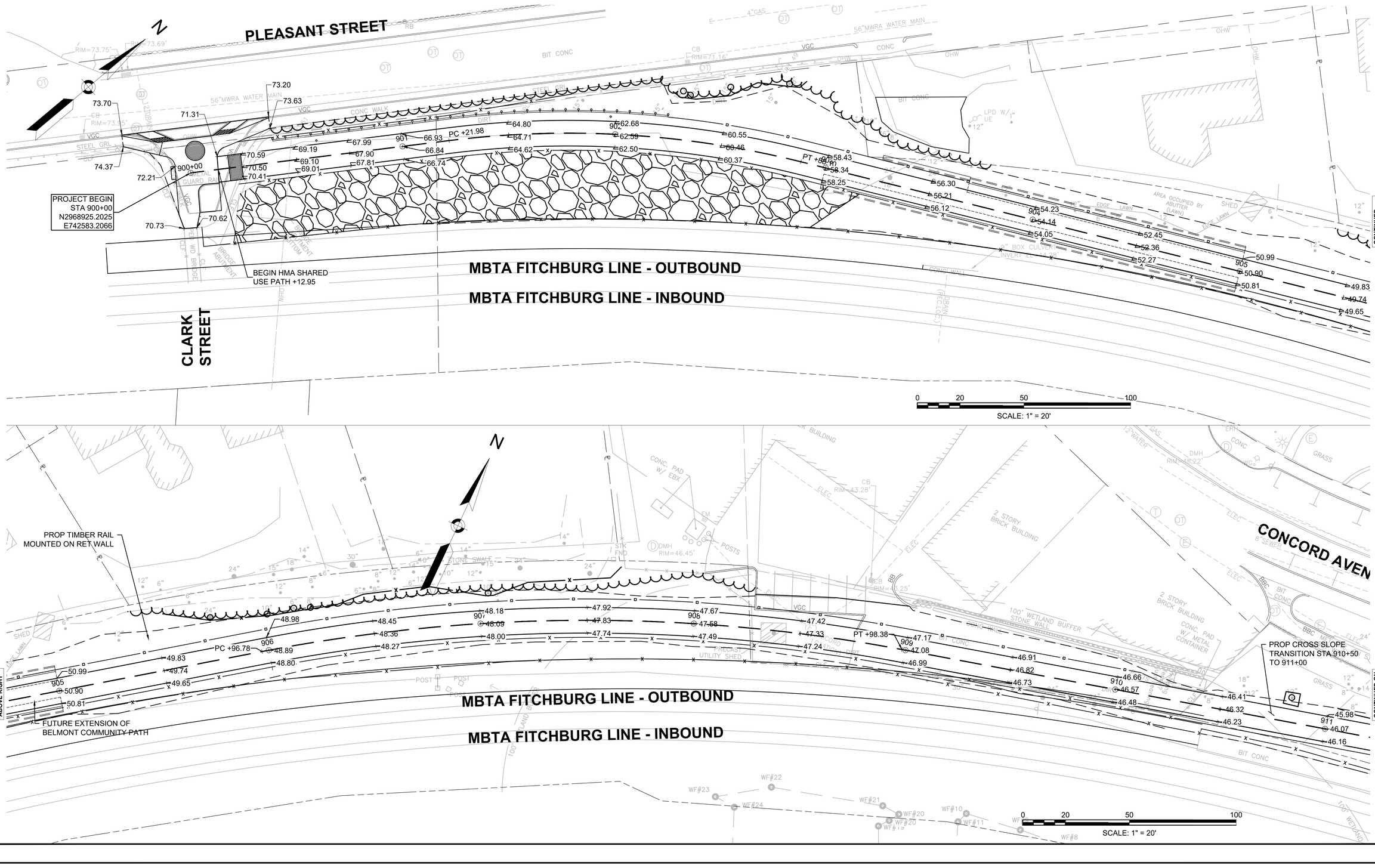


609204_HD(CONST-VIEW).DWG Plotted on ---- ----
Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(CONST–view).dwg ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	46	186
PROJECT FILE NO.	609204		

GRADING PLANS



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609204_HD(GRAD).DWG Plotted on Feb-25 1:06 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	47	186
PROJECT FILE NO.	609204		

GRADING PLANS

N

CONCORD AVENUE

CONCORD AVENUE

1950 TOWN LAYOUT

1965 TOWN LAYOUT

1907 TOWN LAYOUT

1858 TOWN LAYOUT

CONTINUED ON SHEET NO. 46

CONTINUED BELOW LEFT

PROP CROSS SLOPE TRANSITION STA 910+50 TO 911+00

PROP CROSS SLOPE TRANSITION STA 915+50 TO 916+00

PROP CROSS SLOPE TRANSITION STA 917+00 TO 917+50

MBTA FITCHBURG LINE - OUTBOUND

BELMONT STATION

MBTA FITCHBURG LINE - INBOUND

MBTA ER. #B-07-002

913+68.72 BELMONT COMMUNITY PATH= 51+39.47 BELMONT STATION RAMP

916+87.53 BELMONT COMMUNITY PATH= 2+21.72 7 CHANNING ROAD

0 20 50 100

SCALE: 1" = 20'

CONTINUED ABOVE RIGHT

CONTINUED ON SHEET NO. 48

MBTA FITCHBURG LINE - OUTBOUND

MBTA FITCHBURG LINE - INBOUND

0 20 50 100

SCALE: 1" = 20'

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(GRAD).dwg 2/7/2025 1:06 PM

609204_HD(GRAD).DWG Plotted on Feb-25 1:06 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	48	186
PROJECT FILE NO.	609204		

GRADING PLANS

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(GRAD).dwg 2/7/2025 1:06 PM

609204_HD(GRAD).DWG Plotted on Feb-25 1:06 PM

CONTINUED ON SHEET NO. 47

CONTINUED BELOW LEFT

N

BLDG BLDG BLDG BLDG

WF PINE WIRE FNC WF CLF WF WF CLF WF 14" CLF 12" 12"

38.68 38.77 38.33 38.42 922 37.99 38.08 37.64 923 37.73 37.30 37.39 36.95 924 37.04 36.60 PC +51.17 +62.99 36.26 925 PC +01.95 +13.77 35.91 36.00 35.56 926 35.65 35.18 35.27 34.30 927 34.39

38.86 38.51 38.17 37.82 37.48 37.13 36.69 36.78 36.44 36.35 36.09 35.74 35.36 34.48

RAIL ROAD TIE STICK PILE DIRT EDGE OF BALLAST STONES GREASER E STONES EDGE OF BALLAST STONES

Sta. 331 Sta. 330+13.02 (Rec.) 330+11.24 (Calc.) Sta. 330 Sta. 329 Sta.

MBTA FITCHBURG LINE - OUTBOUND

RAILROAD BASELINE

MBTA FITCHBURG LINE - INBOUND

Sta.

63' (Calc.)

50.00' (Rec.)

N/F MASSACHUSETTS BAY TRANS AUTHORITY ASSESS. MAP 35 – PARCEL ID: 35-39 DEED BK 13117 / PAGE 0113

30

0 20 50 100

SCALE: 1" = 20'

N

CONTINUED ABOVE RIGHT

PT +62.99 36.26 925 PC +01.95 +13.77 35.91 36.00 35.56 926 35.65 35.18 35.27 34.30 927 34.39

36.44 36.35 36.09 35.74 35.36 34.48

32.80 31.15 29.49 27.84 24.53 22.87 21.22

32.89 928 31.23 29.58 27.93 929 26.27 26.18 22.96 PT +49.97 21.31 931

32.98 31.33 29.67 28.02 26.36 24.62 PC +04.76 24.71 23.05 21.40

EDGE OF BALLAST STONES STONES EDGE OF BALLAST

MBTA FITCHBURG LINE - OUTBOUND

RAILROAD BASELINE

MBTA FITCHBURG LINE - INBOUND

Sta. 326 Sta. 325 Sta. 324 Sta. 323

50.00' (Rec.) EX1.1 EX1.2 50.00' (Rec.) 55.00' (Rec.)

N/F MASSACHUSETTS BAY TRANS AUTHORITY ASSESS. MAP 35 – PARCEL ID: 35-39 DEED BK 13117 / PAGE 0113

30 Storage

SIGNAL TOWER BUILDING (TYP.) GRADE CROSSING SIGNAL TOWER TS GRAVEL/DIRT EHH

0 20 50 100

SCALE: 1" = 20'

CONTINUED ON SHEET NO. 49

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	49	186
PROJECT FILE NO.	609204		

GRADING PLANS

CHANNING ROAD

ALEXANDER AVENUE

ALEXANDER AVENUE

PRIVATE

PROP SAWCUT
MEET AND MATCH
EXIST PAVEMENT +09.42

500+00

1948 TOWN LAYOUT

1957 TOWN LAYOUT

933+26.62 BELMONT COMMUNITY PATH=
502+09.16 ALEXANDER AVE SPUR

BENCH +25.04 END RET WALL
CONCRETE PAD CORNER
EL=29.96'

931 PC +04.76

932 PT +32.49

933 PC +07.45

934 PC +26.63

935 PT +59.47

930 PT +49.97

PC +44.99

MBTA FITCHBURG LINE - OUTBOUND

MBTA FITCHBURG LINE - INBOUND

RAILROAD BASELINE

Sta. 324 Sta. 323 Sta. 321 Sta. 320 Sta. 319

N87° 34' 07"E — 105.95'

S89° 43' 36"E — 194.31'
193.76' (Rec.)

S89° 43' 36"E — 38.99'

55.00' (Rec.)

50.00' (Rec.)

MASSACHUSETTS BAY TRANS AUTHORITY
ASSESS. MAP 35 – PARCEL ID: 35–39
DEED BK 13117 / PAGE 0113

CONTAINER

BUILDING

CONC. WALL

CONC. PADS

AREA UNDER CONSTRUCTION
AT TIME OF FIELD SURVEY

Chainlink Fence HT=18'

Chainlink Fence HT=10'

Chainlink Fence HT=4'

Chainlink Fence HT=6

Chainlink Fence HT=10'

Story Conc. Block

Gravel

Grass

Dirt

Bleachers

Bench Conc. Pad

RUNNING TRACK

CONTINUED ON SHEET NO. 48

CONTINUED ON SHEET NO. 50

SCALE: 1" = 20'

0 20 50 100

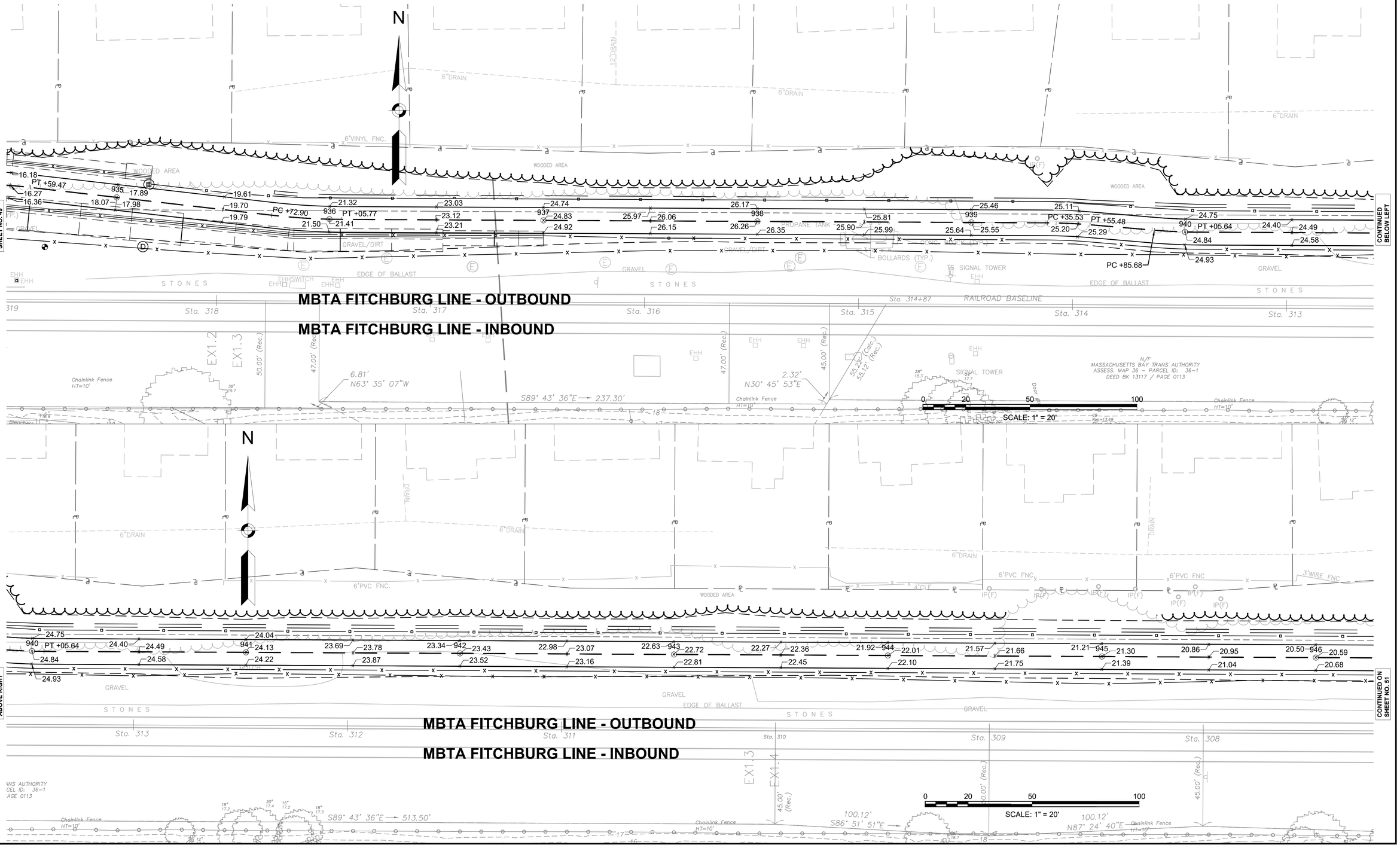
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609204_HD(GRAD).DWG Plotted on Feb-25 1:06 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	50	186
PROJECT FILE NO.	609204		

GRADING PLANS



609204_HD(GRAD).DWG Plotted on Feb-25 1:07 PM

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(GRAD).dwg 2/7/2025 1:07 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	51	186
PROJECT FILE NO.	609204		

GRADING PLANS



Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(GRAD).dwg 2/7/2025 1:07 PM
609204_HD(GRAD).DWG Plotted on Feb-25 1:07 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	52	186
PROJECT FILE NO.	609204		

GRADING PLANS

N

MBTA FITCHBURG LINE - OUTBOUND

MBTA FITCHBURG LINE - INBOUND

FITCHBURG CUTOFF

BRIGHTON STREET

FLANDERS ROAD

HITTINGER STREET

CONTINUED ON SHEET NO. 51

PROJECT END
STA 960+90
N2969514.3844
E748458.0940

SCALE: 1" = 20'

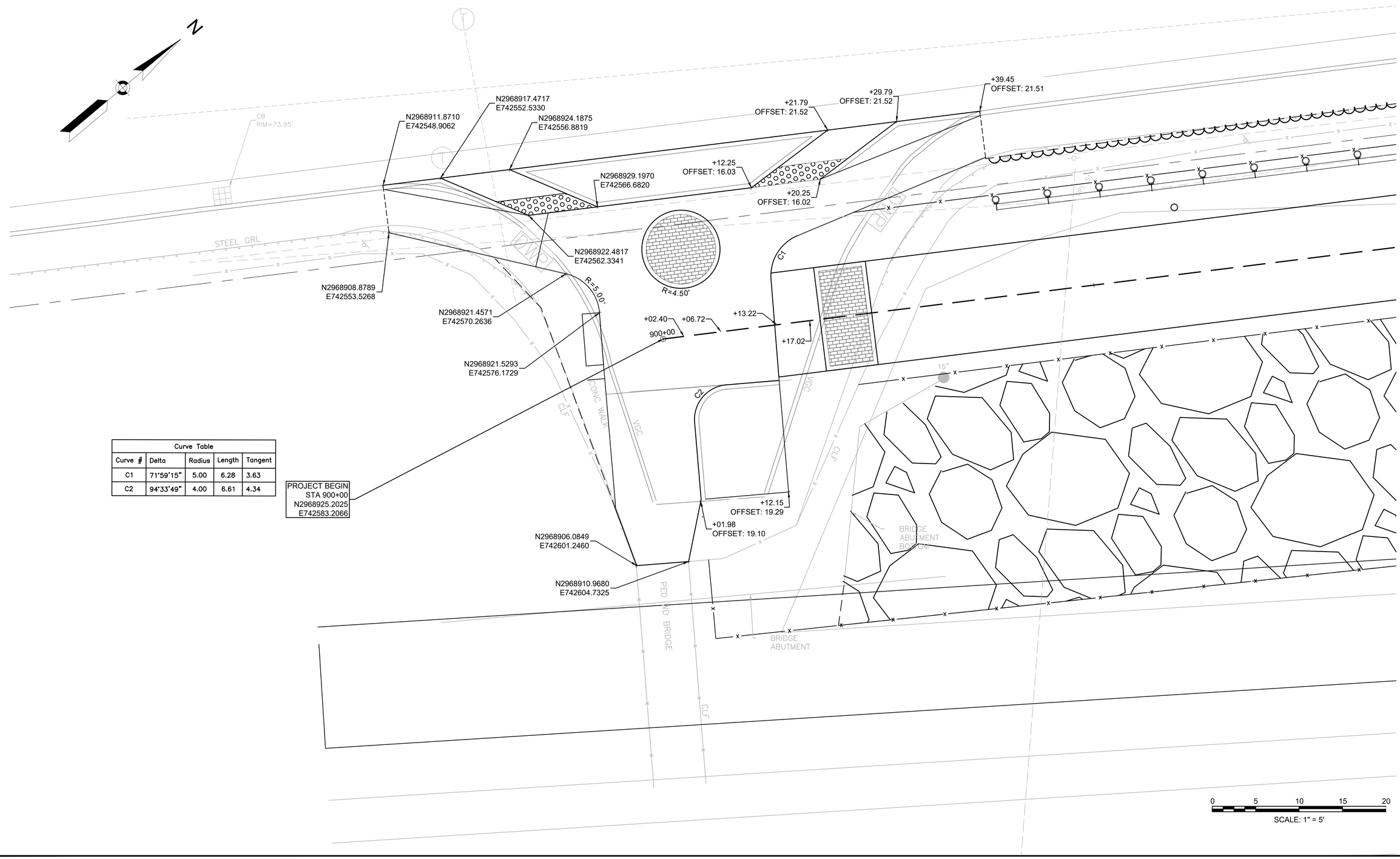
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609204_HD(GRAD).DWG Plotted on Feb-25 1:07 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	53	186
PROJECT FILE NO.	609204		

CURB TIE PLANS



Curve Table				
Curve #	Delta	Radius	Length	Tangent
C1	71°59'15"	5.00	6.28	3.63
C2	94°33'49"	4.00	6.61	4.34

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(GRAD).dwg 2/7/2025 1:07 PM

609204_HD(GRAD).DWG Plotted on Feb-25 1:07 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	54	186
PROJECT FILE NO.		609204	

CURB TIE PLANS

Curve Table				
Curve #	Delta	Radius	Length	Tangent
C3	90°00'00"	2.00	3.14	2.00
C4	86°57'35"	2.00	3.04	1.90
C5	17°18'08"	266.00	80.33	40.47
C6	96°05'58"	2.00	3.35	2.23
C7	87°14'00"	2.00	3.05	1.91
C8	89°56'33"	2.00	3.14	2.00
C9	90°07'54"	2.00	3.15	2.00
C10	17°16'17"	254.00	76.57	38.58
C11	9°16'07"	206.00	33.32	16.70
C12	70°35'50"	5.00	6.16	3.54
C13	6°19'30"	95.00	10.49	5.25
C14	98°24'33"	20.00	34.35	23.17
C15	6°19'30"	105.00	11.59	5.80
C16	98°24'33"	10.00	17.18	11.59

N2969631.5001
E743674.9006

N2969617.6936
E743617.8805

N2969578.7123
E743639.3657

N2969576.8523
E743605.9163

N2969571.8873
E743639.8269

N2969569.6641
E743606.4020

N2969567.1180
E743614.8384

N2969558.3286
E743617.5058

BENCHMARK:
CORNER GRANITE BLOCK
EL=28.90'

0 10 20 30 40
SCALE: 1" = 10'

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609204_HD(GRAD).DWG Plotted on Feb-25 1:07 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	55	186
PROJECT FILE NO.	609204		

CURB TIE PLANS

N

Curve Table				
Curve #	Delta	Radius	Length	Tangent
C17	88°18'52"	10.00	15.41	9.71
C18	90°16'52"	14.00	22.06	14.07
C19	90°16'52"	6.00	9.45	6.03
C41	87°33'04"	10.00	15.28	9.58
C42	9°07'44"	119.00	18.96	9.50
C49	9°07'44"	131.00	20.87	10.46
C50	9°07'18"	256.00	40.76	20.42
C51	9°07'18"	244.00	38.85	19.46

N2969678.7607
E743975.2999

N2969678.6214
E743967.3011

SMH
RIM=31.36'

WSO

UPL

0 8 16 24 32
SCALE: 1" = 8'

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609204_HD(GRAD).DWG Plotted on Feb-25 1:08 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	56	186
PROJECT FILE NO.	609204		

CURB TIE PLANS

Curve Table				
Curve #	Delta	Radius	Length	Tangent
C20	33°38'39"	30.00	17.62	9.07
C21	20°19'06"	205.00	72.70	36.73
C22	33°38'39"	20.00	11.74	6.05
C23	20°19'06"	195.00	69.15	34.94
C24	13°04'24"	73.00	16.66	8.36
C25	133°25'05"	6.00	13.97	13.94
C26	51°05'55"	15.00	13.38	7.17
C27	75°45'47"	20.00	26.45	15.56
C28	44°40'29"	25.00	19.49	10.27
C29	13°29'54"	93.00	21.91	11.01
C30	10°54'34"	87.00	16.57	8.31
C31	42°12'51"	25.00	18.42	9.65
C32	25°43'36"	20.00	8.98	4.57
C33	86°03'41"	15.00	22.53	14.00
C34	103°30'06"	5.00	9.03	6.34
C35	13°29'54"	107.00	25.21	12.66

N

SCALE: 1" = 10'

933+26.62 BELMONT COMMUNITY PATH=
502+09.16 ALEXANDER AVE SPUR

BENCHMARK: SQ-CUT ON CONCRETE PAD CORNER EL=29.96'

SMH RIM=20.18'

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(GRAD).dwg 2/7/2025 1:08 PM

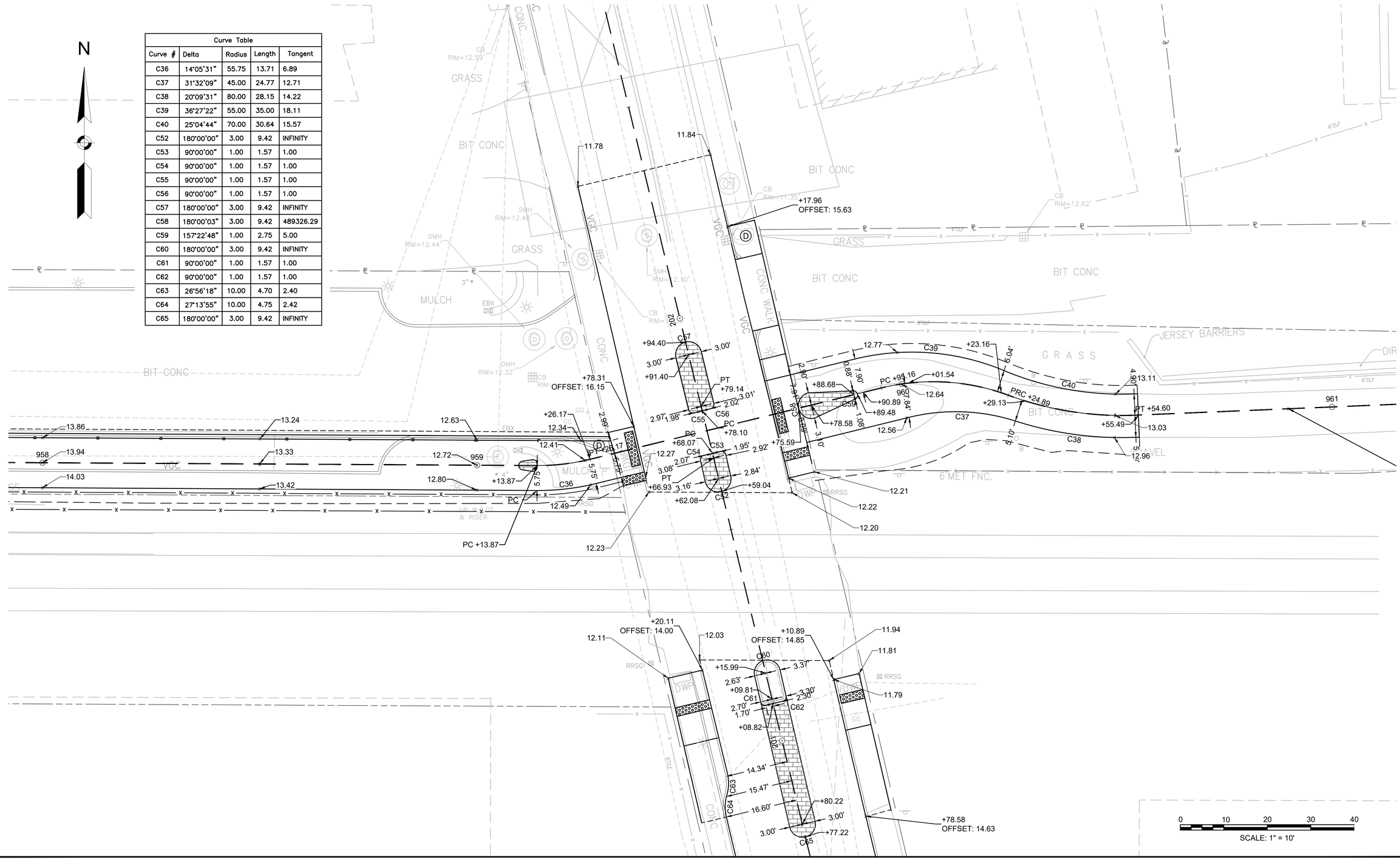
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	57	186
PROJECT FILE NO.	609204		

CURB TIE PLANS

Curve Table				
Curve #	Delta	Radius	Length	Tangent
C36	14°05'31"	55.75	13.71	6.89
C37	31°32'09"	45.00	24.77	12.71
C38	20°09'31"	80.00	28.15	14.22
C39	36°27'22"	55.00	35.00	18.11
C40	25°04'44"	70.00	30.64	15.57
C52	180°00'00"	3.00	9.42	INFINITY
C53	90°00'00"	1.00	1.57	1.00
C54	90°00'00"	1.00	1.57	1.00
C55	90°00'00"	1.00	1.57	1.00
C56	90°00'00"	1.00	1.57	1.00
C57	180°00'00"	3.00	9.42	INFINITY
C58	180°00'03"	3.00	9.42	489326.29
C59	157°22'48"	1.00	2.75	5.00
C60	180°00'00"	3.00	9.42	INFINITY
C61	90°00'00"	1.00	1.57	1.00
C62	90°00'00"	1.00	1.57	1.00
C63	26°56'18"	10.00	4.70	2.40
C64	27°13'55"	10.00	4.75	2.42
C65	180°00'00"	3.00	9.42	INFINITY



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609204_HD(GRAD).DWG Plotted on Feb-25 1:08 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	58	186
PROJECT FILE NO.	609204		

CURB TIE PLANS

Curve Table				
Curve #	Delta	Radius	Length	Tangent
C43	85°45'53"	30.00	44.91	27.86
C44	85°45'53"	20.00	29.94	18.57
C45	23°01'20"	55.00	22.10	11.20
C46	62°22'53"	45.00	48.99	27.24
C47	22°59'26"	45.00	18.06	9.15
C48	61°42'58"	55.00	59.24	32.86
C66	12°25'57"	50.00	10.85	5.45
C67	10°00'18"	50.00	8.73	4.38

SCALE: 1" = 10'

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(GRAD).dwg 2/7/2025 1:08 PM

609204_HD(GRAD).DWG Plotted on Feb-25 1:08 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	59	186
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS

PLEASANT STREET

PROJECT BEGIN
STA 900+00
N2968925.2025
E742583.2066

BELMONT COMMUNITY PATH CONST ℄

APPROX LIMIT OF GRADING (TYP)

RET UPL 50

RET ULT 51

RET UPT 49

RET UP

EXIST TOWN LAYOUT

PROP TEMP EASEMENT

PROP PERM EASEMENT

PROPERTY LINE

APPROX LIMIT OF GRADING

BOS

PROP PERM EASEMENT

PROP TEMP EASEMENT

MBTA FITCHBURG LINE

PROP TEMP EASEMENT

PROP PERM EASEMENT

CLARK STREET

MBTA LAYOUT

0 20 50 100
SCALE: 1" = 20'

CONTINUED BELOW LEFT

CONTINUED ABOVE RIGHT

RET EXIST STONE SWALE

APPROX LIMIT OF GRADING

BELMONT COMMUNITY PATH CONST ℄

BOS

APPROX LIMIT OF GRADING (TYP)

ADJ EMH (BO)

R&D SHED (BO)

PROP TEMP EASEMENT

MBTA FITCHBURG LINE

APPROX LIMIT OF GRADING (TYP)

PROP TEMP EASEMENT

PROP PERM EASEMENT

MBTA LAYOUT

LIMIT OF BVW

RET CONC PAD & CONTAINER

CONCORD AVENUE

0 20 50 100
SCALE: 1" = 20'

CONTINUED ON SHEET NO. 60

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(UTIL).dwg ----- 609204_HD(UTIL).DWG Plotted on ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	60	186
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS

N

CONCORD AVENUE

CONCORD AVENUE

CONCORD AVENUE

#7

#17-19

TOWN LAYOUT

RET DMH

REMODEL CB

ADJ(BO)

RET LP

ADJ EMH

RET EMH

PROP PERM EASEMENT

PROP TEMP EASEMENT

BELMONT COMMUNITY PATH CONST B

RET ULT

PROP PERM EASEMENT

913+68.72 BELMONT COMMUNITY PATH= 51+39.47 BELMONT STATION RAMP

MBTA FITCHBURG LINE

SAWCUT MEET EXIST PLATFORM

PROP TEMP EASEMENT

RET EXIST SIGNAL CONDUIT

APPROXIMATE LOCATION OF EXIST MBTA SIGNAL LINE

BELMONT STATION

RET EHH

RET CB (BELOW)

PROP TEMP EASEMENT

PROP PERM EASEMENT

RET GM

MBTA LAYOUT

RET GG (BELOW)

APPROX LIMIT OF GRADING (TYP)

PROP TEMP EASEMENT

R&R LP

CONC. WALL

BIT CONC

APPROX LIMIT OF GRADING (TYP)

PROP PERM EASEMENT

PROP TEMP EASEMENT

CONTINUED ON SHEET NO. 59

CONTINUED BELOW LEFT

0 20 50 100

SCALE: 1" = 20'

CHANNING ROAD

N

#17-19 #23-25 #29 #31-33 #35 #39 #45-47 #49-51 #53 #57-59 #61-63

PROP PERM EASEMENT

PROP TEMP EASEMENT

R&R LP

PROP HH AT EX LP
PROP 2" CONDUIT FROM HH TO LP

APPROX LIMIT OF GRADING (TYP)

BEGIN PROP GRASS SWALE AND 8" CPP SUB-DRAIN +09

PROP BOTTOM OF PROP GRASS SWALE 917+09 TO 932+62 LT

APPROX LIMIT OF GRADING (TYP)

BELMONT CITIZENS FORUM

PROP 1,550'- 8" CPP SUB-DRAIN

BELMONT COMMUNITY PATH CONST B

PROP PERM EASEMENT

PROP TEMP EASEMENT

PROP PERM EASEMENT

PROP TEMP EASEMENT

APPROX LIMIT OF GRADING (TYP)

MBTA FITCHBURG LINE

CONTINUED ABOVE RIGHT

CONTINUED ON SHEET NO. 61

0 20 50 100

SCALE: 1" = 20'

609204_HD(UTIL).DWG Plotted on ---- ----

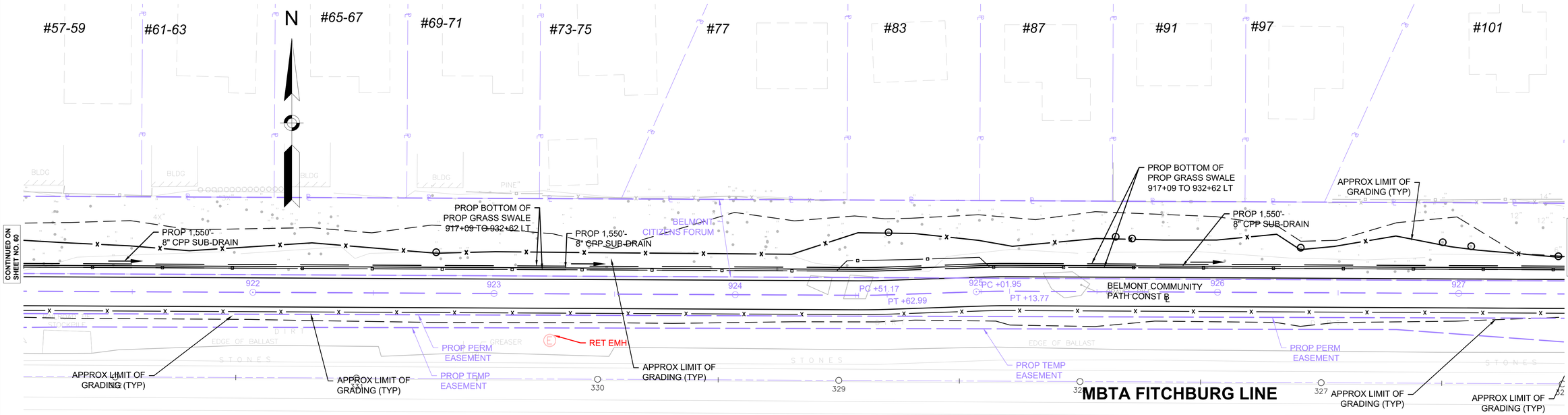
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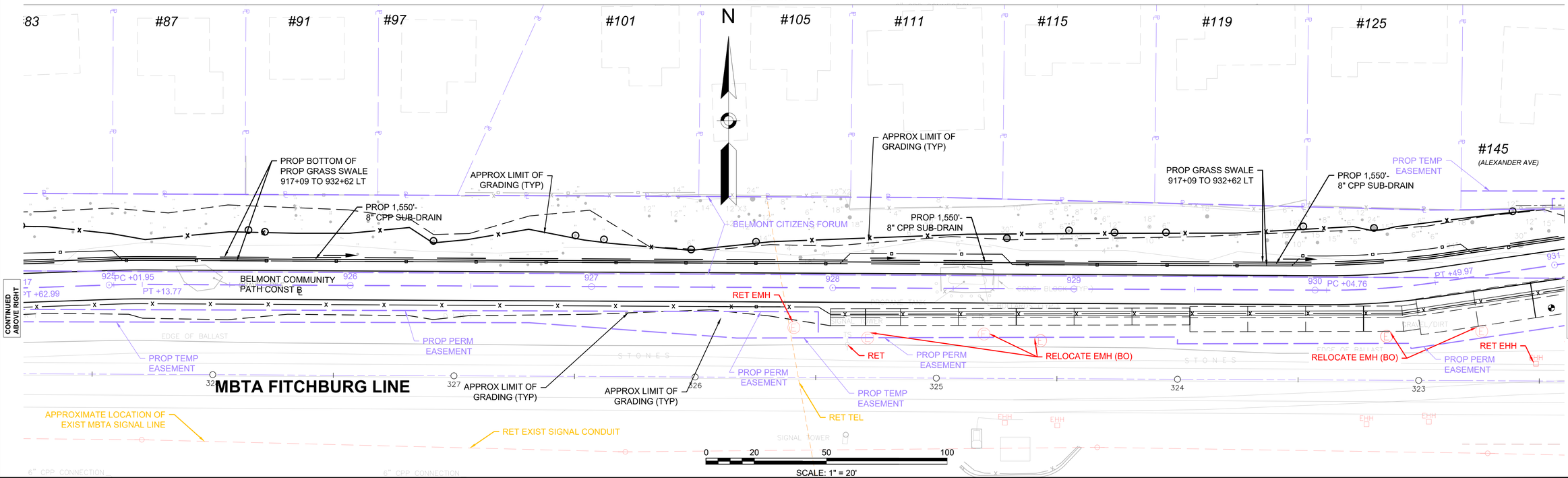
Nitsch

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	61	186
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS





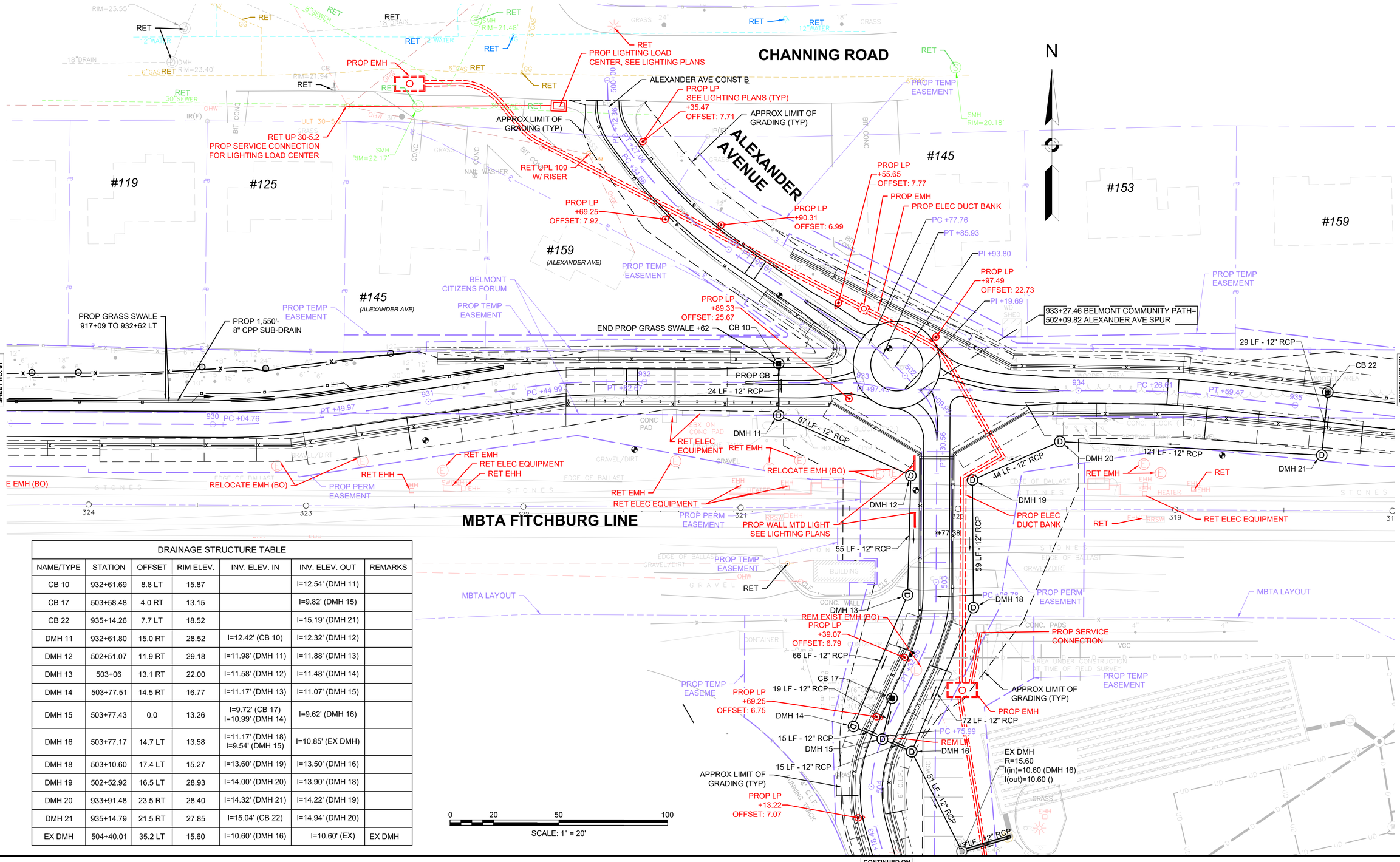
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	62	186
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS

NOTES:
1. SUE TO BE CONDUCTED IN SPRING 2025.
2. SEE LIGHTING PLAN FOR ELECTRICAL CONDUIT.



DRAINAGE STRUCTURE TABLE						
NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CB 10	932+61.69	8.8 LT	15.87		I=12.54' (DMH 11)	
CB 17	503+58.48	4.0 RT	13.15		I=9.82' (DMH 15)	
CB 22	935+14.26	7.7 LT	18.52		I=15.19' (DMH 21)	
DMH 11	932+61.80	15.0 RT	28.52	I=12.42' (CB 10)	I=12.32' (DMH 12)	
DMH 12	502+51.07	11.9 RT	29.18	I=11.98' (DMH 11)	I=11.88' (DMH 13)	
DMH 13	503+06	13.1 RT	22.00	I=11.58' (DMH 12)	I=11.48' (DMH 14)	
DMH 14	503+77.51	14.5 RT	16.77	I=11.17' (DMH 13)	I=11.07' (DMH 15)	
DMH 15	503+77.43	0.0	13.26	I=9.72' (CB 17) I=10.99' (DMH 14)	I=9.62' (DMH 16)	
DMH 16	503+77.17	14.7 LT	13.58	I=11.17' (DMH 18) I=9.54' (DMH 15)	I=10.85' (EX DMH)	
DMH 18	503+10.60	17.4 LT	15.27	I=13.60' (DMH 19)	I=13.50' (DMH 16)	
DMH 19	502+52.92	16.5 LT	28.93	I=14.00' (DMH 20)	I=13.90' (DMH 18)	
DMH 20	933+91.48	23.5 RT	28.40	I=14.32' (DMH 21)	I=14.22' (DMH 19)	
DMH 21	935+14.79	21.5 RT	27.85	I=15.04' (CB 22)	I=14.94' (DMH 20)	
EX DMH	504+40.01	35.2 LT	15.60	I=10.60' (DMH 16)	I=10.60' (EX)	EX DMH

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609204_HD(UTIL).DWG Plotted on ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	63	186
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS

#159 #167 #175 #181 #187 #193 #199 #203

N

PROP TEMP EASEMENT
BEGIN GRASS SWALE+74
29 LF - 12" RCP
CB 22
DMH 21
RCP
RET
RET ELEC EQUIPMENT
RELOCATE EMH (BO)
RET ELEC EQUIPMENT
PROP PERM EASEMENT
PROP TEMP EASEMENT
PROP PERM EASEMENT
APPROX LIMIT OF GRADING (TYP)
PROP 2,168'- 8" CPP SUB-DRAIN
APPROX LIMIT OF GRADING (TYP)
PROP BOTTOM OF GRASS SWALE 935+74 TO 951+57 LT
BELMONT CITIZENS FORUM
BELMONT COMMUNITY PATH CONST ℄
RET EMH
RET EMH
RET EMH
RET
PROP 2,168'- 8" CPP SUB-DRAIN
APPROX LIMIT OF GRADING (TYP)
APPROX LIMIT OF GRADING (TYP)
PT +59.47
PC +72.90
PT +05.77
PC +35.53
PT +55.48
PC +85.68
PT +05.64
935 936 937 938 939 940
318 317 316 315 314
CONTINUED ON SHEET NO. 62
CONTINUED BELOW LEFT
MBTA FITCHBURG LINE

MBTA LAYOUT
MBTA LAYOUT
0 20 50 100
SCALE: 1" = 20'

#203 #209 #215 #219 #223 #229 #235 #241 #247

N

RET
PROP 2,168'- 8" CPP SUB-DRAIN
APPROX LIMIT OF GRADING (TYP)
PROP BOTTOM OF GRASS SWALE 935+74 TO 951+57 LT
PROP 2,168'- 8" CPP SUB-DRAIN
BELMONT CITIZENS FORUM
APPROX LIMIT OF GRADING (TYP)
PROP 2,168'- 8" CPP SUB-DRAIN
APPROX LIMIT OF GRADING (TYP)
PROP TEMP EASEMENT
PROP PERM EASEMENT
PROP TEMP EASEMENT
BELMONT COMMUNITY PATH CONST ℄
PT +05.64
C +85.68
940 941 942 943 944 945 946
312 311 310 309 308
CONTINUED ABOVE RIGHT
CONTINUED ON SHEET NO. 64
MBTA FITCHBURG LINE

RET EXIST SIGNAL CONDUIT
MBTA LAYOUT
0 20 50 100
SCALE: 1" = 20'

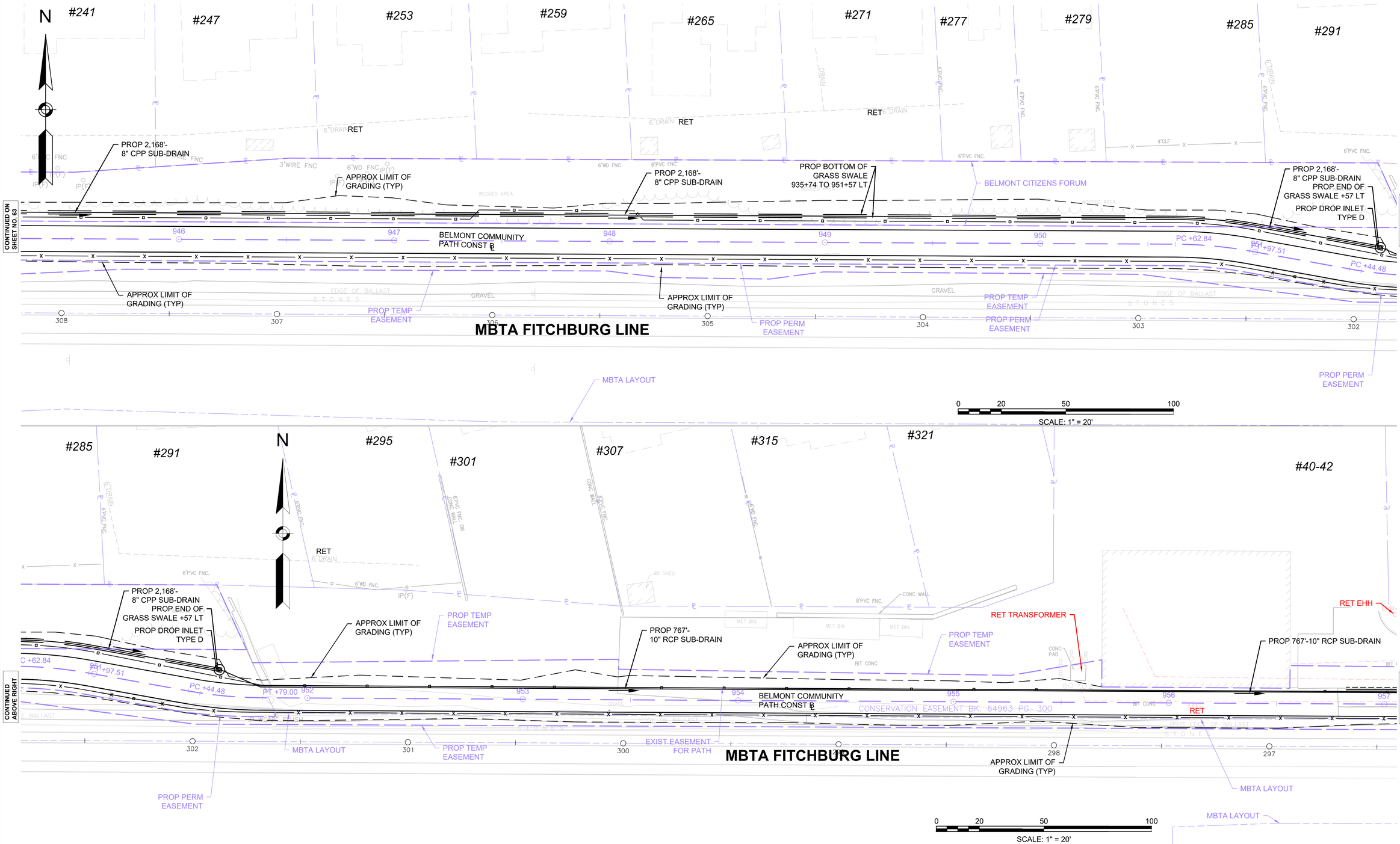
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	64	186
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS



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609204_HD(UTIL).DWG Plotted on ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	65	186
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS

#40-42

N

RET
RIM=12.64'
RET EMH
CONC.
RET
CB
RIM=12.59'
GRASS

ADJ SMH
ADJ CB
ADJ CB
RET
ADJ EXIST DMH 23
CONNECT TO EXIST
STA 959+73.28
OFF 41.40 LT
INV IN = 6.90' (PROP)

RET LP
RET ELEC BOX
RET LP
RET SMH
RIM=12.48'
RIM=12.44'
OFFSET: 42.38
+51.08
RET GG
PROP 58'-12" RCP
REM LP (BO)

PROP TEMP EASEMENT
RET EHH
RET LP
RET
PROP 767'-10" RCP SUB-DRAIN
SAWCUT
RET DMH
RET CB
PC +13.87
PROP 767'-10" RCP SUB-DRAIN
RET
RET
BELMONT COMMUNITY PATH CONST ℄
957
958
959
960
961
961+67.25
PC +95.40
PRC +24.89
PT +54.60
PT +26.
RET
R&S UP & LP (BO)
ADJ EMH (BO)
R&D LP
REM ELEC BOX
PROP DMH 22
STA 959+26.67
OFF 1.61 LT
RIM =12.34'
INV OUT= 7.13
RET
BRIGHTON ST CONST ℄
RET
297
296
295
294
293
292
MBTA LAYOUT
EXIST EASEMENT FOR PATH
PROP TEMP EASEMENT
MBTA LAYOUT
MBTA LAYOUT
MBTA FITCHBURG LINE
RET
REM LP (BO)
RET
ADJ GG (BO)
BRIGHTON STREET
RET DMH
RIM=10.50'
RET CB
RET EHH
RET UPL
RET CB
RET HYD
RET LP
RET WG
RET WG
RET SMH
RET WG
SMH
RIM=10.68'
HITTINGER STREET
FLANDERS ROAD
FITCHBURG CUTOFF
PROJECT END
STA 960+90
N2969514.3844
E748458.0940
CONTINUED ON SHEET NO. 64
0 20 50 100
SCALE: 1" = 20'

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(UTIL).dwg ----
609204_HD(UTIL).DWG Plotted on ---- ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	66	186
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS

N

BELMONT
MIDDLE AND
HIGH SCHOOL

RET LP
+32.50
OFFSET: 5.61

PROP PERM
EASEMENT

PROP LP
SEE LIGHTING PLANS (TYP)
+61.56
OFFSET: 7.71

RET LP
+88.95
OFFSET: 3.82

PROP LP
+20.78
OFFSET: 6.82

PROP PERM
EASEMENT

PROP TEMP
EASEMENT

RET LP

PROP TEMP
EASEMENT

RET LP

RET LP

RET

RET LP

RET

RET

RET LP

0 20 50 100

SCALE: 1" = 20'

CONTINUED ON SHEET NO. 62

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(UTIL).dwg ----
609204_HD(UTIL).DWG Plotted on ---- ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	67	186
PROJECT FILE NO.	609204		

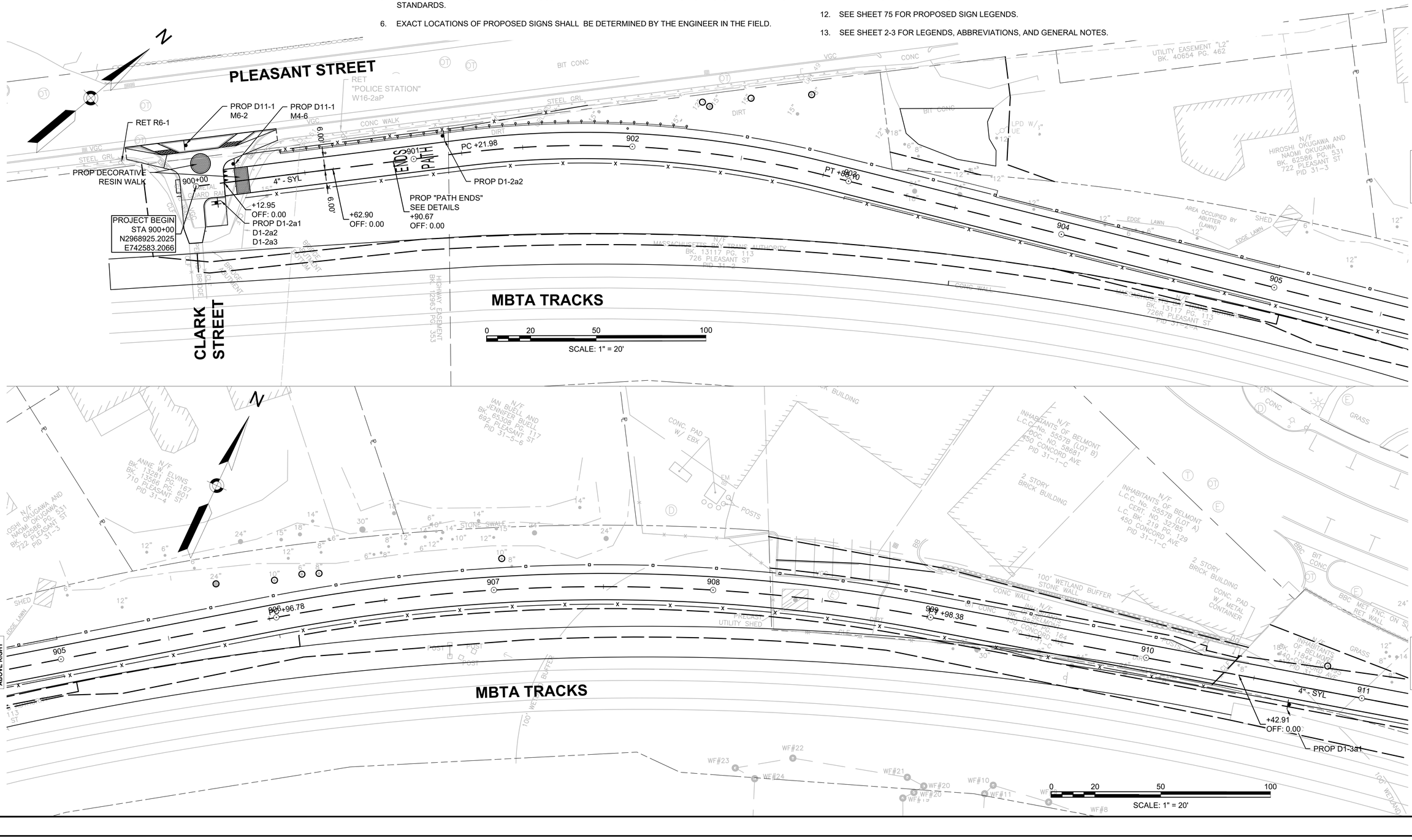
TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

EXISTING SIGN LEGEND



TRAFFIC SIGN AND PAVEMENT MARKINGS NOTES

1. ALL EXISTING SIGNS AND SIGN POSTS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED ON THE PLANS.
2. ALL PROPOSED PAVEMENT MARKINGS WITHIN THE LIMIT OF WORK SHALL BE THERMOPLASTIC. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED BY MASSDOT APPROVED METHOD.
3. ALL PROPOSED SIGN POSTS SHALL BE P-5 TYPE (TELESCOPIC POST) UNLESS NOTED OTHERWISE.
4. PROPOSED PAVEMENT MARKINGS (LEGENDS & ARROWS) SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF MUTCD & MASSDOT STANDARD DRAWINGS.
5. ALL PROPOSED SIGNS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MUTCD AND MASSDOT STANDARDS.
6. EXACT LOCATIONS OF PROPOSED SIGNS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
7. ALL SIGN PANELS SHALL BE 90° TO THE CURB AND FACING THE FLOW OF TRAFFIC EXCEPT PARKING REGULATION SIGNS.
8. ALL SIGNS TO BE R&R SHALL BE MOUNTED ON NEW POSTS, UNLESS OTHERWISE NOTED.
9. SIGNS TO BE MOUNTED NEAR THE CURB LINE SHALL BE SET BACK 12" FROM THE EDGE OF THE SIGN PANEL TO THE CURB LINE. NO SIGN SHALL OVERHANG THE CURB LINE.
10. ALL SIGNS SHALL BE MOUNTED TO PROVIDE A 8.0' MINIMUM, 10.0' DESIRED, CLEARANCE BETWEEN THE BOTTOM OF THE SIGN AND FINISH GRADE EXCEPT OBJECT MARKER SIGNS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TREE TRIMMING WHERE NECESSARY TO IMPROVE VISIBILITY OF PROPOSED SIGNS.
12. SEE SHEET 75 FOR PROPOSED SIGN LEGENDS.
13. SEE SHEET 2-3 FOR LEGENDS, ABBREVIATIONS, AND GENERAL NOTES.



609204_HD(SIGN & PAVE MARK).DWG Plotted on ---- ----
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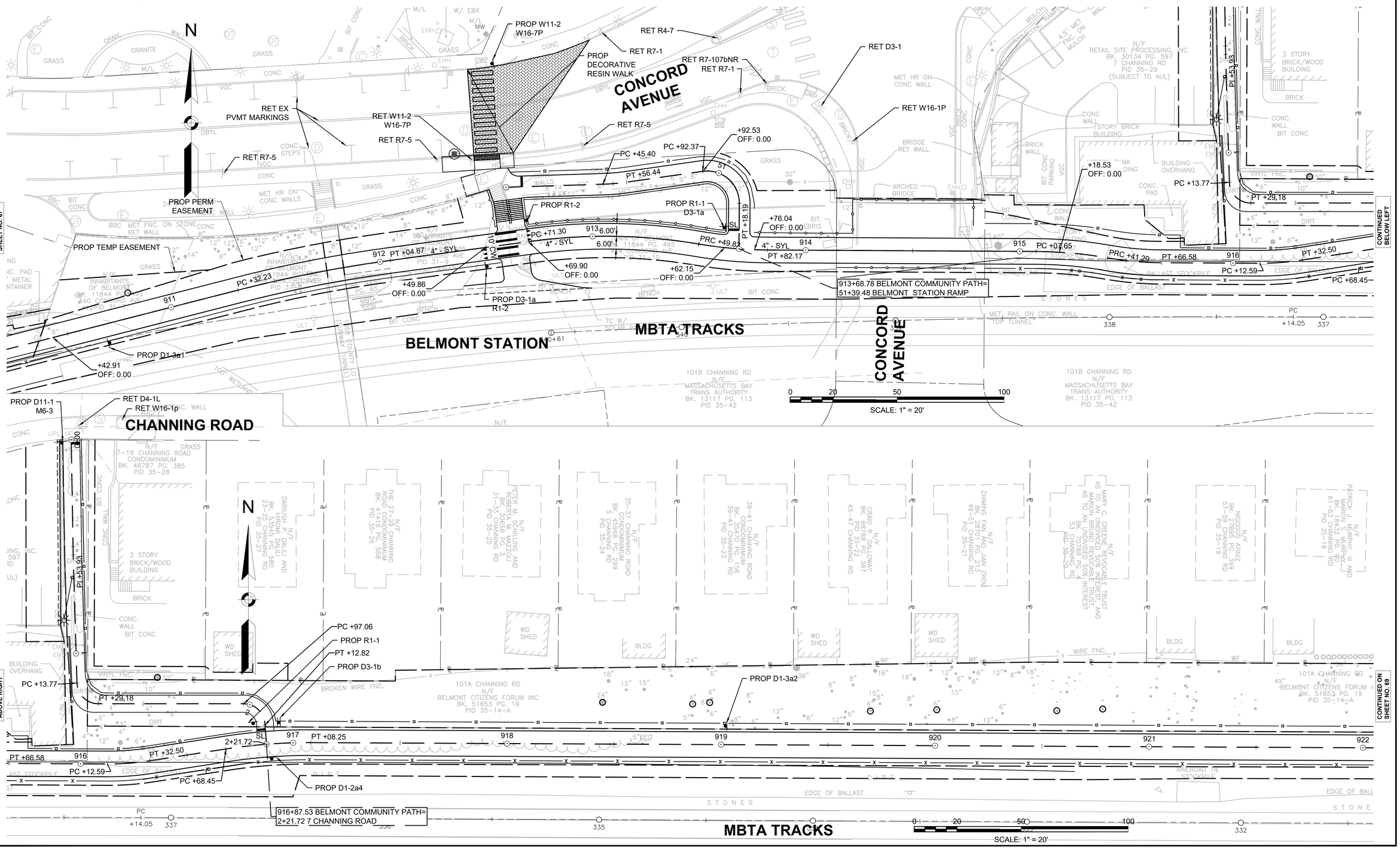
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	68	186
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

EXISTING SIGN LEGEND





Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(SIGN & PAVE MARK).dwg ----

609204_HD(SIGN & PAVE MARK).DWG Plotted on ---- ----

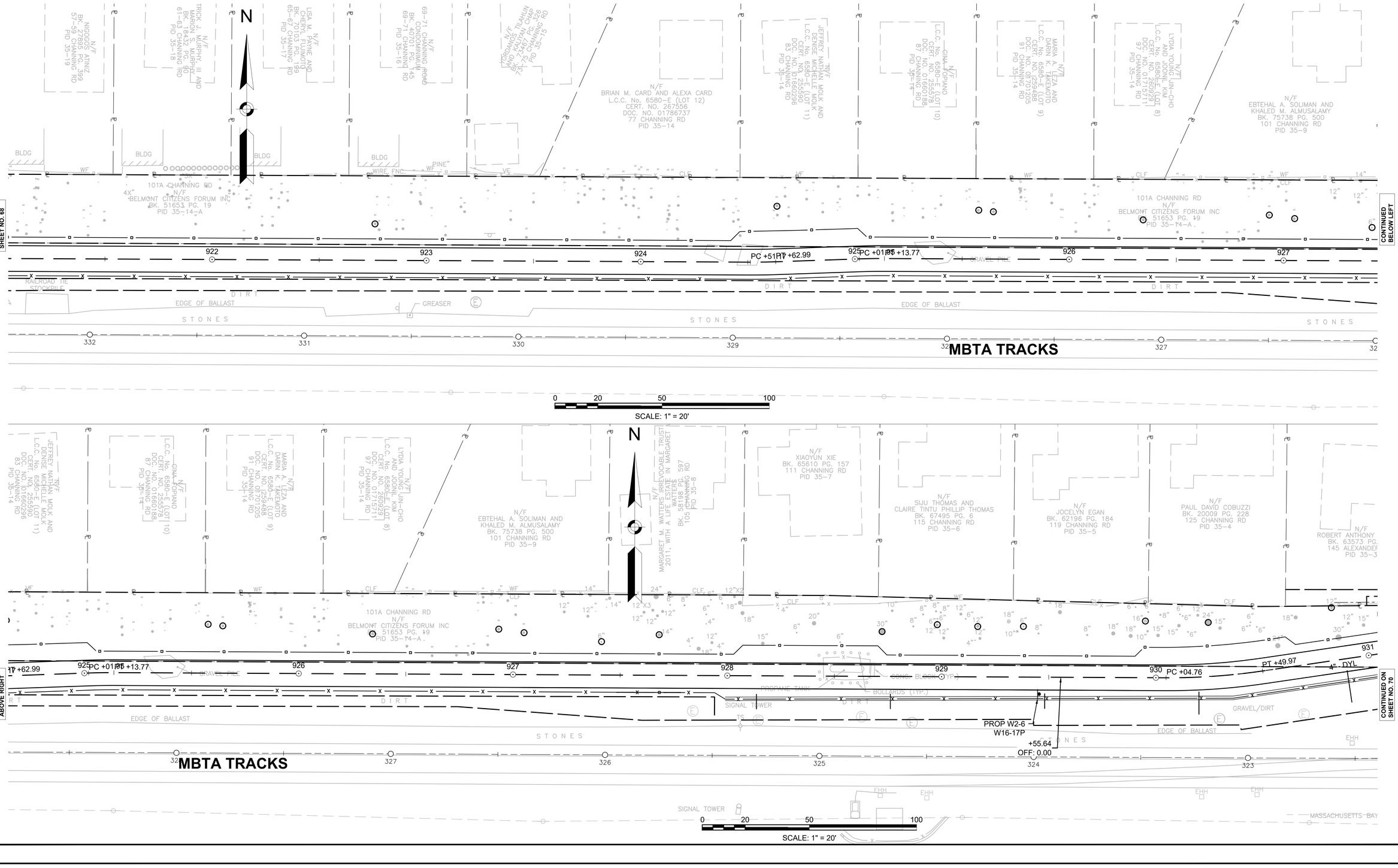
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	69	186
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

EXISTING SIGN LEGEND

NONE



Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(SIGN & PAVE MARK).dwg ----

609204_HD(SIGN & PAVE MARK).DWG Plotted on ---- ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	70	186
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

CHANNING ROAD

ALEXANDER AVENUE

MBTA TRACKS

N

PROP R7-4
PROP R5-3
PROP R7-4
PROP R7-4
PC +12.36
+11.50
OFF: 5.00
PROP D3-1b
R1-1
PT +27.04
PROP D11-1
M4-6
PC +34.68
PROP W2-6
W16-17P
PROP "PATH ENDS"
SEE DETAILS
+52.86
OFF: 0.00
PROP D1-3a4
+73.83
OFF: 1.79
PROP R1-2
R6-5P
+71.44
OFF: 14.11
+12.32
OFF: 0.00
+17.32
OFF: 0.00
+42.32
OFF: 0.00
+34.15
OFF: 22.02
6" - WDWL
(TYP.)
PROP R1-2
R6-5P
+37.12
OFF: 10.16
+90.90
OFF: 0.00
PROP D1-3a6
PC +77.76
PT +85.93
PC +44.99
PT +49.97
PT +82.69
PC +04.76
PROP W2-6
W16-17P
+55.64
OFF: 0.00
PROP D1-3a3
+96.69
OFF: 0.00
+46.75
OFF: 0.01
+91.69
OFF: 0.00
+07.65
OFF: 7.43
PROP R1-2
R6-5P
+31.43
OFF: 2.54
PROP R1-2
R6-5P
+40.91
OFF: 0.00
+45.91
OFF: 0.02
PC +26.61
PT +59.47
933+19.70 BELMONT COMMUNITY PATH=
502+04.32 ALEXANDER AVE SPUR
+34.87
OFF: 23.34
PC +06.78
PROP D1-3a5
PT +32.95
PC +75.99
PROP W2-6
W16-17P
+28.98
OFF: 0.00

CONTINUED ON SHEET NO. 69
CONTINUED ON SHEET NO. 71
CONTINUED ON SHEET NO. 74

0 20 50 100
SCALE: 1" = 20'

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(SIGN & PAVE MARK).dwg ----
609204_HD(SIGN & PAVE MARK).DWG Plotted on ---- ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	71	186
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

EXISTING SIGN LEGEND

NONE

N

N/F
JOHN J. LeSHANE
REVOCABLE TRUST
BK. 61138 PG. 171
159 CHANNING RD
PID 37-90

N/F
DEEN B. BHATTA AND
SHARDA BHATTA
BK. 71255 PG. 154
167 CHANNING RD
PID 37-89

N/F
JENNIFER SCHWARTZ AND
JOHN A. QUINN, JR.
BK. 76382 PG. 194
175 CHANNING RD
PID 37-88

N/F
FANG FAMILY IRREVOCABLE
TRUST OF 2005
BK. 72780 PG. 343
181 CHANNING RD
PID 37-87

N/F
PAUL JEFFREY CORRIGAN
AND LINDA M. CORRIGAN
BK. 46016 PG. 404
187 CHANNING RD
PID 37-86

N/F
WILLIAM A. DEORIO
FAMILY TRUST
BK. 72029 PG. 428
193 CHANNING RD
PID 37-85

N/F
MENG YU ZHU
AND QIUMING CHU
BK. 40971 PG. 33
199 CHANNING RD
PID 37-84

N/F
ANN M. TIERNEY
BK. 18911 PG. 372
203 CHANNING RD
372 PID 37-83

PROP D1-3a6

PROP W2-6
W16-17P

6'VINYL FNC.

WOODED AREA

101A CHANNING RD
N/F
BELMONT CITIZENS FORUM INC
BK. 51653 PG. 19
PID 35-14-A

PT +59.47

935

4" - DYI

PC +72.90

936

PT +05.77

937

938

939

PC +35.53

PT +55.48

PC +85.68

940

PT +05.64

CONTINUED ON SHEET NO. 70

(P)

GRAVEL

+45.91

OFF: 0.02

(D)

GRAVEL/DIRT

+56.66

OFF: 0.00

EDGE OF BALLAST

PROPANE TANK

CONCRETE UNIT

BOLLARDS (TYP.)

SIGNAL TOWER

EHH

EHH SWITCH

STONES

GRAVEL

EDGE OF BALLAST

STONES

GRAVEL

STONES

318

317

316

315

314

313

MBTA TRACKS

CONTINUED BELOW LEFT

101B CHANNING RD
N/F
MASSACHUSETTS BAY TRANS AUTHORITY
BK. 13117 PG. 113
PID 35-42

0 20 50 100

SCALE: 1" = 20'

4"

N

N/F
ANN M. TIERNEY
BK. 18911 PG. 372
203 CHANNING RD
372 PID 37-83

N/F
WILLIAM L. LANGMAID AND
LEANNE M. LANGMAID
BK. 70039 PG. 190
209 CHANNING RD
PID 37-82

N/F
MICHAEL CROWLEY AND
PATRICIA CROWLEY
BK. 36977 PG. 89
215 CHANNING RD
PID 37-81

N/F
JOSEPH G. PULITANO, II
AND EVELYN F. FOWLER
BK. 26657 PG. 187
219 CHANNING RD
PID 37-80

N/F
ANDREW WALL AND
CATHERINE WALL
L.C.C. No. 29488A (LOT 1)
CERT. NO. 255535
DOC. NO. 01659786
223 CHANNING RD
PID 37-79

N/F
FRANK C. NAPOLI
BK. 664 PG. 128
PER ASSESSORS DEED
(NOT FOUND)
229 CHANNING RD
PID 37-78

N/F
JANE H. MacKINNON AND
BRUCE MacKINNON
L.C.C. No. 29488A (LOT 3)
CERT. NO. 235185
DOC. NO. 01390376
235 CHANNING RD
PID 37-77

N/F
CATERINO NOMINEE TRUST
L.C.C. No. 29488A (LOT 4)
CERT. NO. 258143
DOC. NO. 01685828
235 CHANNING RD
PID 37-76

6'PVC FNC.

WOODED AREA

6'PVC FNC

3'WIRE FNC

4'CLF

C +85.68 940 PT +05.64

941

942

943

944

945

946

CONTINUED ABOVE RIGHT

MULCH

GRAVEL

STONES

EDGE OF BALLAST

GRAVEL

STONES

GRAVEL

313

312

311

310

309

308

MBTA TRACKS

CONTINUED ON SHEET NO. 72

101C CHANNING RD
N/F
MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 113
PID 36-1

0 20 50 100

SCALE: 1" = 20'

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609204_HD(SIGN & PAVE MARK).DWG Plotted on ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	72	186
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

EXISTING SIGN LEGEND

NONE

N

N/F
CATERINO NOMINEE TRUST
L.C.C. No. 29488A (LOT 4)
CERT. NO. 258143
DOC. NO. 01685828
235 CHANNING RD
PID 37-76

N/F
NDRICIM QUKA
AND MIRELA QUKA
L.C.C. No. 29488A (LOT 5)
CERT. NO. 272416
DOC. NO. 01833296
247 CHANNING RD
PID 37-75

N/F
STEPHEN TSANG
AND PAMELA TSANG
L.C.C. No. 29488A (LOT 6)
CERT. NO. 206259
DOC. NO. 1012745
253 CHANNING RD
PID 37-74

N/F
JAMES J. DEMETROPOULOS
L.C.C. No. 29488A (LOT 7)
CERT. NO. 239535
DOC. NO. 01445178
259 CHANNING RD
PID 37-73

N/F
JOSEPH M. NOONE AND
CAROLINE C. NOONE
L.C.C. No. 29488B (LOT 11)
CERT. NO. 211233
DOC. NO. 1062966
271 CHANNING RD
PID 37-71

N/F
KEVIN M. SHEA
BK. 30032 PG. 231
279 CHANNING RD
PID 37-69

N/F
PAUL HEAYN
AND MARISA HEAYN
BK. 69435 PG. 301
285 CHANNING RD
PID 37-68

N/F
ELAINE J. NOONE LIVING TR
BK. 72180 PG. 574
291 CHANNING RD
PID 38-45

6"PVC FNC
3"WIRE FNC
6"WD FNC
4"CLF
101A CHANNING RD
N/F
BELMONT CITIZENS FORUM INC
BK. 51853 PG. 19
PID 35-14-A
WOODED AREA
GRASS
EDGE OF BALLAST
STONES
GRAVEL
946
947
948
949
950
951
PC +62.84
PC +97.51
PC +44.48
308
307
306
305
304
303
302
MBTA TRACKS
CONTINUED ON SHEET NO. 71
CONTINUED BELOW LEFT

0 20 50 100
SCALE: 1" = 20'

N/F
ELAINE J. NOONE LIVING TRUST
BK. 72180 PG. 574
291 CHANNING RD
PID 38-45

N/F
DIONISIA ATSIKNOUDAS
BK. 21530 PG. 294
295 CHANNING RD
PID 38-46

N/F
JIN SEOP JANG AND
YU CHUNG JEONG
BK. 71548 PG. 96
301 CHANNING RD
PID 38-47

N/F
GROTON REALTY
VENTURES, LLC
BK. 72343 PG. 597
307 CHANNING RD
PID 38-48

N/F
CYNTHIA J. TAYLOR
AND ROBERT J. TAYLOR
BK. 50016 PG. 532
315 CHANNING RD
PID 38-48-A

N/F
MAUREEN F. BRUCE
IRREVOCABLE TRUST
BK. 71455 PG. 488
321 CHANNING RD
PID 38-48-B

N/F
40-42 BRIGHTON STREET
CONDOMINIUM
BK. 64963 PG. 304
40-42 BRIGHTON ST
PID 38-10

6"PVC FNC
6"WD FNC
6"PVC FNC ON CONC WALL
CONC WALL
8"PVC FNC
WD SHED
MET BIN
CONC PAD
BIT CONC
WOODED AREA
GRASS
EDGE OF BALLAST
STONES
CONSERVATION EASEMENT BK. 64963 PG. 300
PROP D1-2a5
1.40'
11.50'
1.00'
9.34'
PC +62.84
PC +97.51
PC +44.48
PT +79.00
952
953
954
955
956
957
302
301
300
299
298
297
MBTA TRACKS
CONTINUED ABOVE RIGHT
CONTINUED ON SHEET NO. 73

0 20 50 100
SCALE: 1" = 20'

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609204_HD(SIGN & PAVE MARK).DWG Plotted on ---- ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	73	186
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

EXISTING SIGN LEGEND

W16-15 · W16-15P · R8-8 · R5-3 · SP-1 · "MBTA" · R4-11 · SP-2 · R15-1 · D11-1 · D1-1b1 · M4-14 · M4-6

N

N/F
STANLEY D. GARFIELD REVOCABLE TRUST OF 2014
BK. 64312 PG. 280
46 BRIGHTON ST
PID 38-11

N/F
VALE REALTY AND
SERVICE COMPANY, LLC
BK. 67478 PG. 51
1 VALE ROAD
PID 39-28

N/F
OAK REALTY AND
SERVICE COMPANY, LLC
BK. 66271 PG. 339

FITCHBURG CUTOFF

PUBLIC RECREATION AND BIKE TRAIL EASEMENT
BK/PG 51900/359

MBTA TRACKS

N/F
MASSACHUSETTS BAY TRANS AUTHORITY
BK. 13117 PG. 113

BRIGHTON STREET

N/F
HITTINGER STREET LLC
L.C.C No. 22622A(LOT UNNUMBERED)
CERT. NO. 230586
DOC. NO. 01319795
30 BRIGHTON ST
PID 38-8

N/F
D&J REALTY HOLDINGS LLC
BK. 74935 PG. 114
33 BRIGHTON ST
PID 38-2

BK. 44742 PG. 61
1 ST

PROP D1-2a5 · 1.40' · 11.50' · 1.00' · 9.34' · GRASS EDGE OF PAVED STONES

PROP D1-1 D1-1a1 · PT +26.17 · PROP R5-3 · +29.98 OFF: 0.00 · +84.08 OFF: 14.53 · +78.10 OFF: 3.48 · +93.35 OFF: 2.28

PROP W11-15 W11-15P · R&D W11-15 W11-15P · RET MBTA SIGN · +89.02 OFF: 9.97 · +25.66 OFF: 1.11 · +35.00 OFF: 1.09

+34.97 OFF: 12.75 · +93.16 OFF: 2.43 · RET R8-8

R&R W16-15 W16-15P · RET R1-1 PROP D3-1d · +90.38 OFF: 0.00 · PRC +24.89 · +38.33 OFF: 0.01 · R&D D11-1 M4-6 · PROP D1-2a6

PC +13.87 · PC +95.16 · PT +54.60

PROJECT END
STA 960+55.39
N2969512.9408
E748423.5107

961+67.25

R&R D1-1b1 · D11-1 · SP-1 · R&D M4-14 · R&R R5-3 · R&D SP-1

959+53.87 BELMONT COMMUNITY PATH=
201+73.42 BRIGHTON ST

+59.60 OFF: 0.04 · +73.44 OFF: 0.05 · +10.49 OFF: 0.00 · +14.75 OFF: 0.00

PROP R4-7 · PROP 12" SWL · PROP 6" SWL · RET R15-1 · +09.07 OFF: 3.80 · +57.23 OFF: 14.72 · +57.99 OFF: 3.28

PROP R1-1 D3-1d · R&D R8-8 · RET R15-1 · PROP R8-8 · PROP 12" SWL · PROP 6" SWL · RET R8-8 · RET R8-8 SP-2 · +78.25 OFF: 2.27 · +19.82 OFF: 3.10 · +78.50 OFF: 2.44 · +46.93 OFF: 1.59 · +40.00 OFF: 1.44

12" YGL, 45° @10' O.C · 6" - DBYL · 6" - SWL · 6" - SYL · 4" - SYL · 10' CW · STOP AHEAD · 5.75' · 200+00

956 · 957 · 958 · 959 · 960 · 961 · 292 · 293 · 294 · 295 · 296 · 297

CONTINUED ON SHEET NO. 72

0 20 50
SCALE: 1" = 20'

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	74	186
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

N

BELMONT MIDDLE AND HIGH SCHOOL

CONCRETE SIDEWALK
BIKE RACK
CROSSWALK
GRASS
VGC
EHH
3"
4"
SYL
BLEACHERS
BIT. CONC.
TRACK SURFACE
4' C.L.F.
CONCRETE SIDEWALK
CONC.
PED
BITUMINOUS CONCRETE
CONC. SIDEWALK
TCB
OFFH
VGC

PC +55.74
PT +75.73
505
PT +07.25
PI +25.81
PC +91.38
+18.43
.98
.00
506
507
508
PC +74.14
+75.70
OFF: 0.00
509
PC +15.30
PT +35.36
4" - SYL
9.00'
5.00'
510
+04.41
OFF: 0.00
PROP SIGNAL FDN (BO),TYP
PROP PVMT MARKINGS (BO)TYP
PROP R1-2
PROP SIGNAL FDN (BO),TYP
CONCORD AVE

CONTINUED ON SHEET NO. 70

0 20 50 100
SCALE: 1" = 20'

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609204_HD(SIGN & PAVE MARK).DWG Plotted on ---- ----

PROPOSED TRAFFIC SIGN SUMMARY

IDENTIFI-CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED ②	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
R1-1	18"	18"		①	①	①	4	RED	WHITE	WHITE	P-5 4 REQ'D	2.25	9.00
R1-2	18"	18"					7	WHITE	RED	RED	P-5 7 REQ'D	1.125	7.875
R4-7	24"	30"					1	WHITE	BLACK	BLACK	P-5 1 REQ'D	2.25	2.25
R5-3	24"	24"					2	WHITE	BLACK	BLACK	P-5 1 REQ'D	4.00	8.00
R6-5P	18"	18"					4	WHITE	BLACK	BLACK	MTD W/ R1-2	2.25	9.00
R7-4	12"	18"					3	WHITE	RED	RED	P-5 3 REQ'D	1.50	3.00
R8-8	24"	30"					1	WHITE	BLACK	BLACK	P-5 1 REQ'D	2.25	2.25
D1-1AX	VARIES	6"	SEE SIGN DETAILS SHEET 76				1	GREEN	WHITE	WHITE	MTD W/ D11-1	---	---
D1-2AX	VARIES	12"	SEE SIGN DETAILS SHEET 76				7	GREEN	WHITE	WHITE	P-5 7 REQ'D	---	---
D1-3AX	VARIES	18"	SEE SIGN DETAILS SHEET 76				6	GREEN	WHITE	WHITE	P-5 6 REQ'D	---	---
D3-1A	VARIES	6"	Belmont Station				2	GREEN	WHITE	WHITE	MTD W/ R1-1	---	---
D3-1B	VARIES	6"	Channing Rd				2	GREEN	WHITE	WHITE	P-5 1 REQ'D	---	---
D3-1D	VARIES	6"	Brighton St				2	GREEN	WHITE	WHITE	P-5 1 REQ'D	---	---
D11-1	24"	18"					5	GREEN	WHITE	WHITE	P-5 5 REQ'D	3.00	15.00
M4-6	24"	12"					1	GREEN	WHITE	WHITE	MTD W/ D11-1	2.00	9.00
M6-2	21"	15"					1	GREEN	WHITE	WHITE	MTD W/ D11-1	2.19	2.19
M6-3	21"	15"					1	GREEN	WHITE	WHITE	MTD W/ D11-1	2.19	2.19
W2-6	18"	18"					4	YELLOW	BLACK	BLACK	P-5 4 REQ'D	2.25	9.00
W11-2	36"	36"		↓	↓	↓	1	FLUOR-ESCENT YELLOW	BLACK	BLACK	P-5 1 REQ'D	6.00	6.00

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	75	186
PROJECT FILE NO.	609204		

TRAFFIC SIGN SUMMARY

IDENTIFI-CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED ②	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
W11-15	30"	30"		①	①	①	1	YELLOW	BLACK	BLACK	P-5 1 REQ'D	6.25	6.25
W11-15P	24"	18"					1	YELLOW	BLACK	BLACK	MTD W/ W11-15	3.00	3.00
W16-17P	12"	6"		↓	↓	↓	5	FLUOR-ESCENT YELLOW	BLACK	BLACK	MOUNT W/ W11-2	0.50	2.50

① SEE MUTCD 2009 EDITION, THE 2012 SUPLEMENT TO THE 2004 EDITION OF THE STANDARD HIGHWAY SIGNS AND SECTION M9.30.0 TYPE III OF THE MASSDOT STANDARD SPECIFICATION FOR TEXT DIMENSIONS AND COLOR.

② SEE STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, 1990.

③ STREET NAME SIGNS THAT ARE MOUTHED ON P-5 POSTS SHALL BE ORDERED TWO SIGNS PER LOCATION AND SHALL BE MOUNTED WITH BOLT-THROUGH METHOD.

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609204_HD(SIGN & PAVE MARK).DWG Plotted on ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	76	186
PROJECT FILE NO.		609204	

TRAFFIC SIGN DETAILS



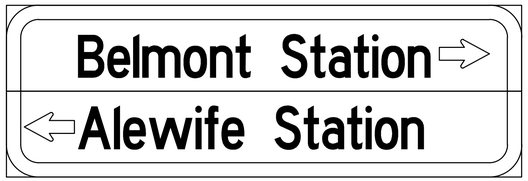
D1-2a1



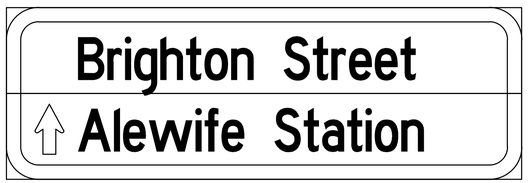
D1-2a2



D1-2a3



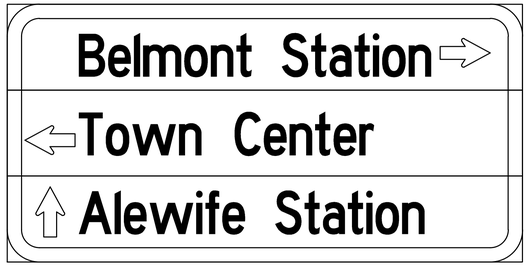
D1-2a4



D1-2a5



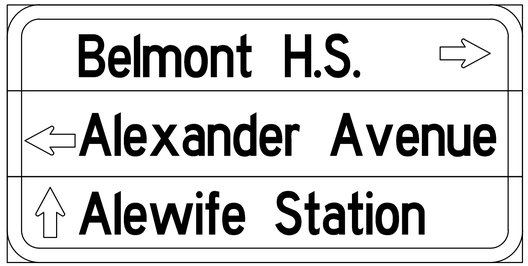
D1-2a6



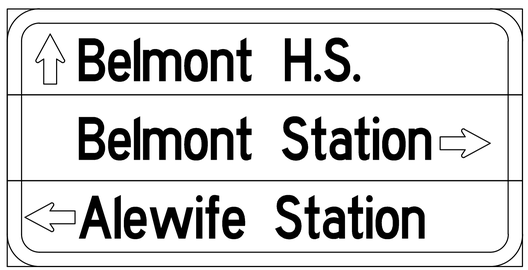
D1-3a1



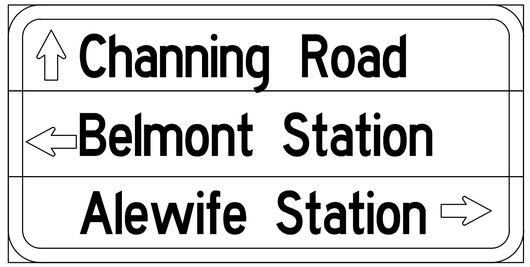
D1-3a2



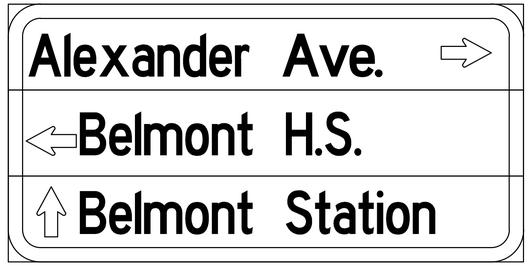
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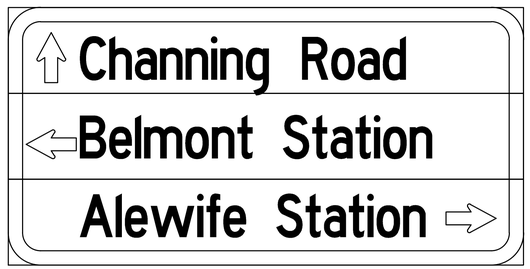
D1-3a4



D1-3a5



D1-3a6



D1-3a7



D1-1a1

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609204_HD(SIGN & PAVE MARK).DWG Plotted on ---- ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	77	186
PROJECT FILE NO.	609204		

TRAFFIC SIGNAL PLAN

N

SEQUENCE AND TIMING FOR FULL ACTUATED CONTROL (ISOLATED)												
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	FLASH OPER.	7	8	9
BRIGHTON STREET	NB	A, E, F	G	Y	R	R	R	R	FY	R	R	R
BRIGHTON STREET	SB	B, C, D	G	Y	R	R	R	R	FY	R	R	R
PEDESTRIAN CROSSING	EB-WB	P1,P2	DW	DW	DW	W	FDW	DW	OFF	DW	DW	DW
TIMING IN SECONDS												
MINIMUM GREEN (INITIAL)			10			-			EMERGENCY ONLY	*		
PASSAGE TIME (VEHICLE)			3			-				-		
MAXIMUM 1			40			-				-		
MAXIMUM 2			40			-				-		
YELLOW CLEARANCE				3			-				-	
RED CLEARANCE (VEHICLE & BICYCLE)					2			-				-
WALK (W)						7				-	-	-
PEDESTRIAN CLEARANCE							5	4				
RECALL			MAX			OFF				PREEMPTION		
MEMORY			NON-LOCKING			LOCKING						

RAIL ROAD PREEMPTION OPERATION:

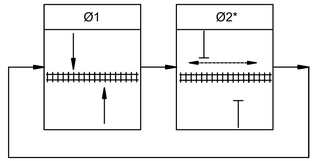
1. * TIMING TO BE DETERMINED BY RAILROAD DETECTION OR FIXED SCHEDULE BY MBTA.
2. ADVANCED CALL SHALL BE 5 SECONDS EARLIER THAN EXISTING.
3. UPON RECEIPT OF AN ADVANCED CALL FROM THE RAILROAD THE CURRENT SIGNAL FACES (VEHICULAR OR PEDESTRIAN) IMMEDIATELY DISPLAYS CLEARANCE INTERVALS (YELLOW / ALL RED OR FLASHING DON'T WALK/DONT' WALK).
4. NO PEDESTRIAN CROSSING IS TO BE ALLOWED FOR DURATION OF RAILROAD PREEMPTION.
5. RAILROAD FLASHING WARNING SIGNALS ACTIVATE IMMEDIATELY AFTER THE TRAFFIC SIGNAL CLEARANCE INTERVAL.
6. CONTRACTOR TO COORDINATE WITH MBTA TO DETERMINE ADEQUACY OF PREEMPTION TIMING.

VIDEO QUEUE DETECTION DATA

DETECTOR ZONE NUMBER	CAMERA NUMBER	Ø CALLED	Ø EXT.	DELAY TIME (s)	EXT. TIME (s)
1	C1	1	-	5	-
2	C2	1	-	5	-

WHEN QUEUE DETECTION SEND SIGNAL TO THE CONTROLLER, THE VEHICULAR SIGNAL FACES IMMEDIATELY DISPLAYS CLEARANCE INTERVALS (YELLOW AND ALL RED) AFTER THE PHASE HAS SERVED ITS MINIMUM GREEN TIME (10 SECONDS).

PREFERENTIAL PHASING SEQUENCE

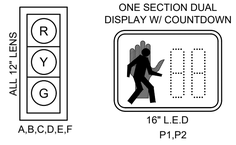


* PEDESTRIAN ACTUATED PHASE

PROPOSED SIGNAL EQUIPMENT LAYOUT TABLE

NO.	SIGNAL EQUIP. DESCRIPTION.	STATION	OFFSET TO CENTER
#1	SIGNAL CONTROLLER CABINET	BRIGHTON STREET - STA 201+04.24	32.10' RT
#2	BATTERY BACK UP CABINET	BRIGHTON STREET - STA 201+03.07	36.85' RT
#3	15' MAST ARM FOUNDATION	BRIGHTON STREET - STA 200+99.92	16.55' LT
#4	10' SIGNAL POST FOUNDATION	BRIGHTON STREET - STA 201+67.43	22.46' LT
#5	20' MAST ARM FOUNDATION	BRIGHTON STREET - STA 201+82.76	23.32' RT

PROPOSED SIGNAL INDICATION



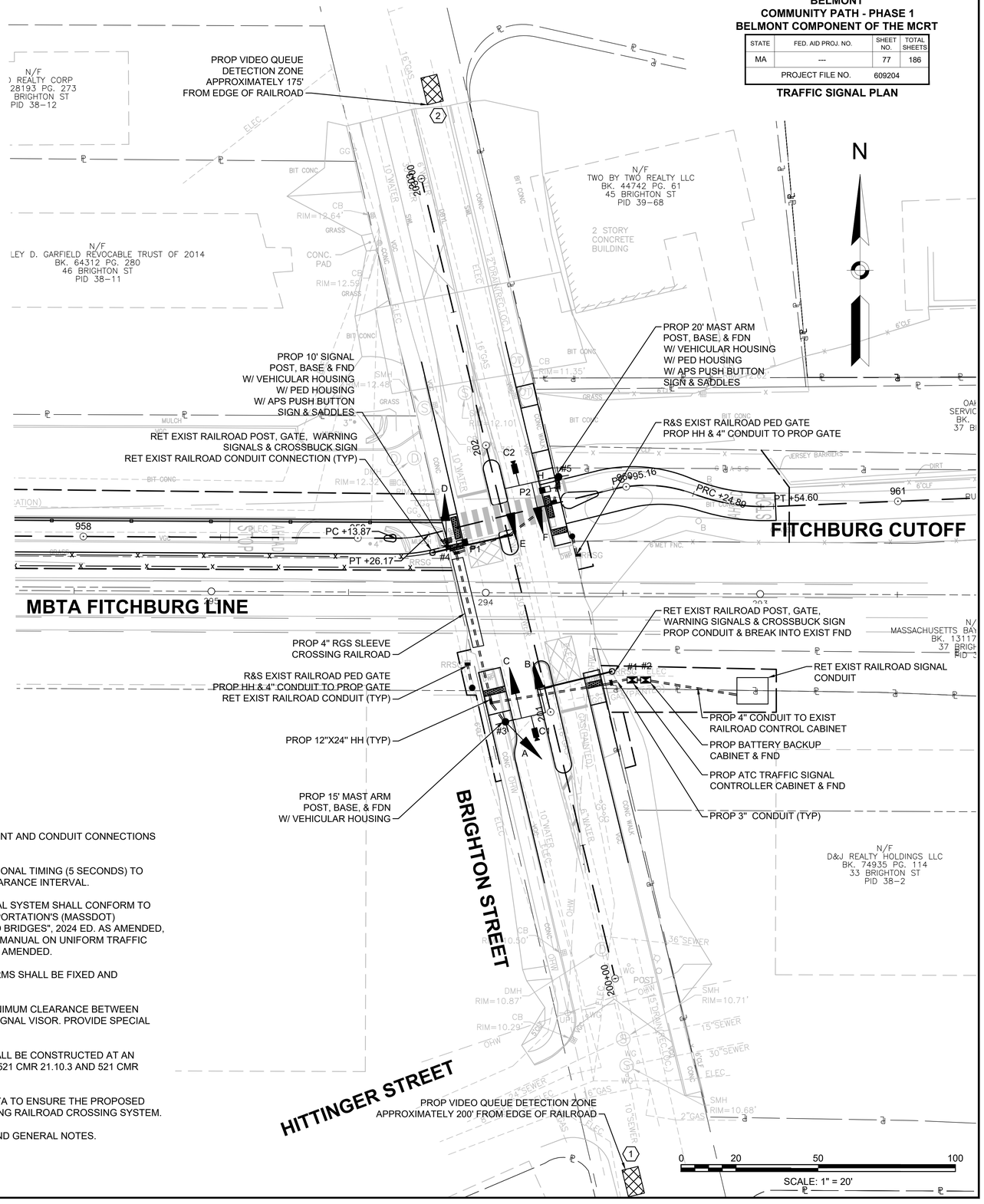
NOTES:

1. ALL SIGNALS SHALL HAVE CUTAWAY TUNNEL VISORS.
2. ALL SIGNALS SHALL BE 12" LED WITH 5" NON-LOUVERED BACKPLATES.
3. ALL BACKPLATES SHALL HAVE A 3" RETROREFLECTIVE BORDER.

	MAJOR ITEMS REQUIRED	
PAY ITEM	QUANTITY	ITEM
815.01	1	ATC CONTROLLER, SIZE P CABINET
	1	BATTERY BACKUP, SIZE M CABINET
	2	10' SIGNAL POLE, BASE, & FDN.
	1	15 FT TYPE II, GALV. STEEL MAST ARM ASSEMBLY , BASE & FDN.
	1	20 FT TYPE II, GALV. STEEL MAST ARM ASSEMBLY , BASE & FDN.
	6	1 WAY, 3 SECTION, SIGNAL HOUSING (12" L.E.D.)
	6	5" 3-SECTION BACKPLATES (NON-LOUVERED) WITH 3" RETROREFLECTIVE BORDER
	2	16" PEDESTRIAN COUNTDOWN HOUSING, TYPE L.E.D. (INT'L SYMBOL)
	2	PEDESTRIAN PUSH BUTTON, SIGN & SADDLES (APS)
	1	VIDEO DETECTION SYSTEM (2 CAMERA)
	1	20' RAILROAD GATE W/POST & FND
	1	25' RAILROAD GATE W/POST & FND
804.3	204'	3" CONDUIT, TYPE NM
811.32	5	12" X 24" HANDHOLE (MASSDOT)
		Plus all necessary duct, cable, labor, miscellaneous material and equipment to complete the installation.

TRAFFIC SIGNAL NOTES:

1. RETAIN ALL EXISTING RAILROAD SIGNAL EQUIPMENT AND CONDUIT CONNECTIONS UNLESS OTHERWISE NOTED.
2. ADJUST DETECTION WARNING TIMER WITH ADDITIONAL TIMING (5 SECONDS) TO ACCOMMODATE ADVANCED TRAFFIC SIGNAL CLEARANCE INTERVAL.
3. CONSTRUCTION OF THE TRAFFIC CONTROL SIGNAL SYSTEM SHALL CONFORM TO THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION'S (MASSDOT) "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES", 2024 ED. AS AMENDED, THE 2023 FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", (MUTCD) LATEST EDITION AS AMENDED.
4. ALL VEHICLE INDICATIONS MOUNTED ON MAST ARMS SHALL BE FIXED AND EQUIPPED WITH 5" NON-LOUVERED BACKPLATES.
5. POLE MOUNTED SIGNALS SHALL HAVE 2 FOOT MINIMUM CLEARANCE BETWEEN VERTICAL PROJECTION OF THE CURB LINE AND SIGNAL VISOR. PROVIDE SPECIAL MOUNTING HARDWARE AS REQUIRED.
6. THE PROPOSED ACCESSIBLE PUSH BUTTONS SHALL BE CONSTRUCTED AT AN ACCESSIBLE HEIGHT AND REACH PER MASS AAB 521 CMR 21.10.3 AND 521 CMR 21.10.4 GUIDANCE
7. CONTRACTOR SHALL COORDINATE WITH THE MBTA TO ENSURE THE PROPOSED SIGNAL SYSTEM IS COMPATIBLE WITH THE EXISTING RAILROAD CROSSING SYSTEM.
8. SEE SHEETS 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL NOTES.



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STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	78	186
PROJECT FILE NO.		609204	

TEMPORARY TRAFFIC CONTROL PLANS

TRAFFIC MANAGEMENT NOTES:

1. ALL TRAFFIC MANAGEMENT AND WORK ZONE TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION WITH MASSACHUSETTS AMMENDMENTS, THE STANDARD SPECIFICATIONS, THE PROJECT SPECIAL PROVISIONS, AND THE FOLLOWING NOTES.
2. THE TRAFFIC MANAGEMENT PLANS CONTAINED HEREIN ARE GIVEN AS A GUIDE FOR TYPICAL WORK ZONE TRAFFIC CONTROL APPLICATIONS FOR THE TYPES OF WORK ANTICIPATED FOR THIS PROJECT. THEY ARE NOT INTENDED TO COVER ALL POSSIBLE CONSTRUCTION OPERATIONS WHICH THE CONTRACTOR MAY CHOOSE TO EMPLOY. WORK ZONE TRAFFIC CONTROL FOR OTHER CONSTRUCTION OPERATIONS OR OTHER TRAFFIC SITUATIONS IF APPLICABLE SHALL BE IN ACCORDANCE WITH THE MUTCD AND AS APPROVED OR DIRECTED BY THE ENGINEER.
3. NO CONSTRUCTION VEHICLES SHALL BE PARKED WITHIN THE TRAVEL WAY WITHOUT PROPER PROTECTION AND APPROVAL OF THE ENGINEER.
4. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
5. ALL WARNING SIGNS SHALL BE BLACK LEGEND ON A REFLECTIVE ORANGE BACKGROUND AND IN ACCORDANCE WITH THE MUTCD. ALL REGULATORY SIGNS SHALL BE BLACK LEGEND ON A WHITE REFLECTIVE BACKGROUND. ALL CONSTRUCTION SIGNS SHALL BE ATTACHED TO THEIR OWN INDEPENDENT SUPPORTS UNLESS SHOWN OTHERWISE.
6. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO AVOID PLACING TEMPORARY TRAFFIC CONTROL DEVICES ON PRIVATE PROPERTY. IF SUCH PLACEMENT ON PRIVATE PROPERTY IS UNAVOIDABLE, IT SHALL BE DONE WITH THE EXPLICIT APPROVAL OF THE PROPERTY OWNER AND THE ENGINEER.
7. ABUTTER ACCESS SHALL NOT BE CLOSED EXCEPT FOR SHORT PERIODS AND ONLY WITH THE APPROVAL OF THE ENGINEER. THE CONTRACTOR 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.
8. THE CONTRACTOR SHALL PROVIDE IMMEDIATE ACCESS TO EMERGENCY VEHICLES AT ALL TIMES.
9. GRADE DIFFERENCES IN EXCESS OF 2" DURING NON-WORKING HOURS WILL REQUIRE DELINEATION BY USE OF DRUMS.
10. GRADE DIFFERENCES IN EXCESS OF 4" DURING NON-WORKING HOURS SHALL BE PROTECTED BY BACKFILLING WITH A TRANSITION OF GRAVEL OR OTHER MATERIAL TO BE COMPACTED AT A 4:1 SLOPE, AND DELINEATED BY DRUMS.
11. CONSTRUCTION SIGNS NOT APPLICABLE TO VARIOUS STAGES OF CONSTRUCTION SHALL BE REMOVED OR COVERED.
12. USE MA-W20-7b SIGNS ONLY WHEN POLICE OFFICER IS DIRECTING TRAFFIC. THEY SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH OPERATION.
13. MAINTAIN PEDESTRIAN ACCESS THROUGH THE WORK AREA AT ALL TIMES. THE POLICE DETAIL SHALL PROVIDE CONTROL TO CROSS PEDESTRIANS ON ROADWAY TO SIDEWALK. PROVIDE TEMPORARY CROSSWALKS AND RAMPS AS NEEDED AND AS DIRECTED BY THE ENGINEER.
14. ALL CONSTRUCTION SIGNING AND OTHER TRAFFIC MAINTENANCE DEVICES SHALL CONFORM WITH THE 2009 MUTCD AS AMENDED, MASH, AND MASSDOT STANDARDS.
15. ADVANCE WARNING SIGNS NO LONGER APPLICABLE, WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS, SHALL EITHER BE COVERED OR REMOVED AS SOON AS POSSIBLE. NO SIGN SHALL BE VISIBLE TO TRAFFIC THAT MAY CONFLICT WITH ACTUAL ROADWAY CONDITIONS.
16. ALL DISTANCES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.HOWEVER, MINIMUM DISTANCES, WHERE INDICATED, SHOULD BE MAINTAINED.
17. THE CONTRACTOR SHALL USE TEMPORARY PATCHING OR BEVELED STEEL PLATES TO COVER PIPE TRENCHES AND OTHER EXCAVATED HOLES NOT COMPLETED BY THE END OF EACH WORK DAY.
18. ALL DRUMS WITH FLASHERS, SIGNS AND SIGN SUPPORTS MUST PASS THE CRITERIA SET FORTH IN MASH RECOMMENDED PROCEDURES FOR THE SAFETY EVALUATION OF HIGHWAY FEATURES.
19. MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH WILL BE MEASURED FROM THE EDGE OF DRUMS OR CONES.
20. ORANGE CONSTRUCTION FLAGS MAY BE USED ON ADVANCE WARNING SIGNS AS DIRECTED BY THE ENGINEER. FLAGS SHALL BE A MINIMUM OF 16" X 16".
21. MAINTAIN EXISTING PAVEMENT MARKINGS WHERE APPLICABLE. WHEN LANES SHIFT, IF NECESSARY, EXISTING MARKINGS SHALL BE REMOVED AND TEMPORARY PAVEMENT MARKING SHALL BE PROVIDED.
22. AT THE END OF EACH WORK DAY, NO TRAFFIC CONTROL DEVICES SHALL REMAIN IN THE ROADWAY AND ALL LANES SHALL BE OPEN FOR TRAFFIC FLOW.
23. THE CONTRACTOR MAY PROPOSE TO USE A DIFFERENT SEQUENCE OF WORK AREAS THAN WHAT IS BEING PROPOSED IN THESE DOCUMENTS. THE CONTRACTOR SHALL SUBMIT PHASING AND TRAFFIC MANAGEMENT PLANS FOR APPROVAL BY THE ENGINEER.
24. MAXIMUM SPACING OF CHANNELIZING DEVICES IN A TAPER IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH. (20' SPACING TYPICAL ON TAPER, 35' SPACING TYPICAL ON TANGENTS.)
25. CHANNELIZATION WILL BE ACCOMPLISHED THROUGH THE USE OF REFLECTORIZED PLASTIC DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS.
26. THE FIRST TEN PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING WARNING LIGHTS.
27. POLICE DETAIL SHALL BE USED WHILE SETTING UP THE TEMPORARY TRAFFIC CONTROL DEVICES ON THE ROADWAY.
28. EACH WORK ZONE SHALL HAVE MA-R2-10a, MA-R2-10e, AND W-20 SERIES SIGNS WHERE APPLICABLE.
29. POLICE DETAILS SHALL BE EMPLOYED AND SHALL BE SUBSTITUTED WITH CERTIFIED ROADWAY FLAGGERS AS DIRECTED BY THE ENGINEER AND PER SECTION 850 "TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE OPERATIONS" IN THE MASSDOT SUPPLEMENTAL SPECIFICATIONS DATED JUNE 12, 2012.
30. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
31. ALL DRIVEWAYS AND STREETS SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR SHORT PERIODS AS APPROVED BY THE ENGINEER.
32. SEE SHEETS 79-81 FOR ADDITIONAL TYPICAL TEMPORARY TRAFFIC CONTROL PLAN DETAILS.

ROAD TYPE	DISTANCE BETWEEN SIGNS **		
	A	B	C
LOCAL OR LOW VOLUME ROADWAYS*	350	350	350
MOST OTHER ROADWAYS*	500	500	500
FREEWAYS AND EXPRESSWAYS*	1,000	1,500	2,640

* ROAD TYPE TO BE DETERMINED BY MASSDOT OFFICE OF TRANSPORTATION PLANNING.

** DISTANCES ARE SHOWN IN FEET (METERS). 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 "ADVANCE WARNING" SIGN ON THE TTCP SETUPS. THESE ADVANCE 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 REFERRED 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.

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 ANTICAPATED OPERATING SPEED IN MPH (KM/H)

STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED

SPEED* (mph)	DISTANCE (ft)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
75	820

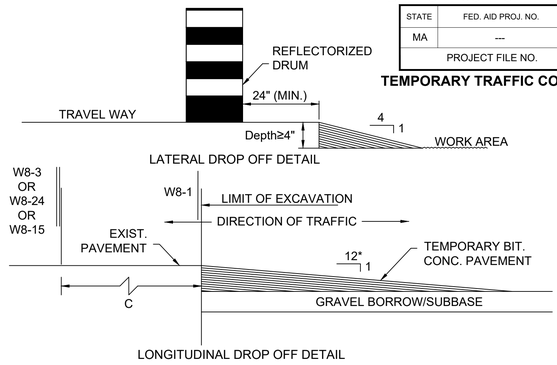
*POSTED SPEED, OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED

THESE VALUES MAY BE USED TO DETERMINE THE LENGTH OF LONGITUDINAL BUFFER SPACES.

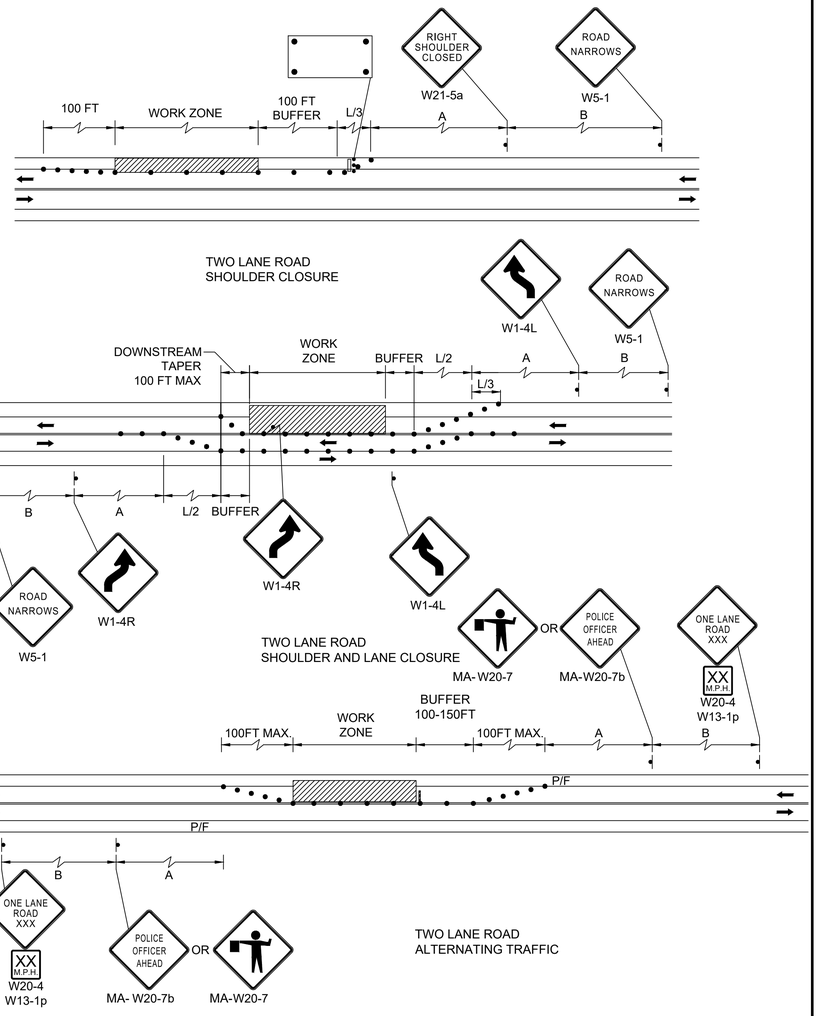
THE DISTANCES IN THE ABOVE CHART REPRESENT THE MINIMAL VALUES FOR BUFFER SPACING.

LEGEND:

- REFLECTORIZED PLASTIC DRUM OR 36" CONE
- P/F POLICE/FLAGGER DETAIL
- TYPE III BARRICADE
- CHANGEABLE MESSAGE SIGN
- ARROW BOARD
- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENUATOR
- MEDIAN BARRIER
- MEDIAN BARRIER WITH WARNING LIGHTS
- WORK VEHICLE
- TRUCK MOUNTED ATTENUATOR
- TRAFFIC OR PEDESTRIAN SIGNAL
- SIGN



* - INCREASE SLOPE RATIO FOR HIGHER SPEEDS

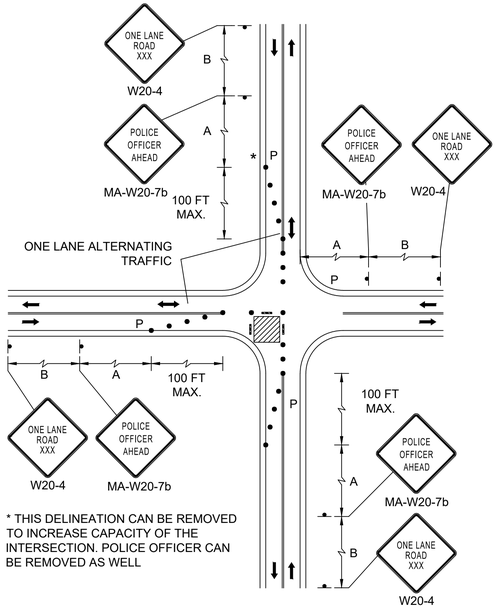


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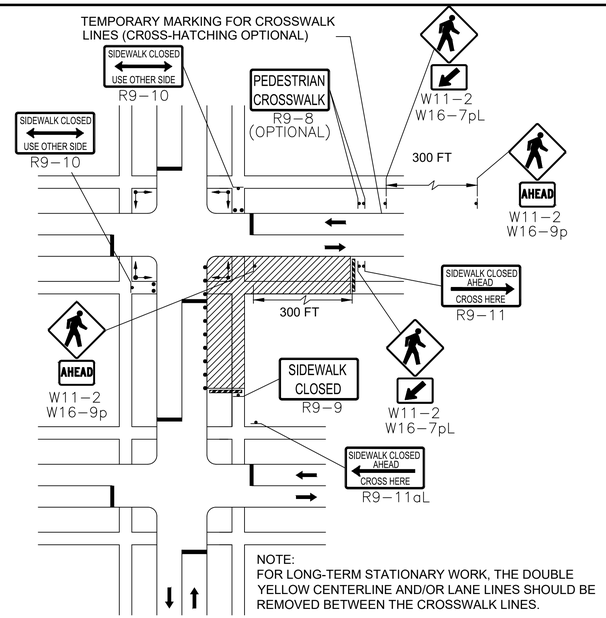
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	79	186
PROJECT FILE NO.	609204		

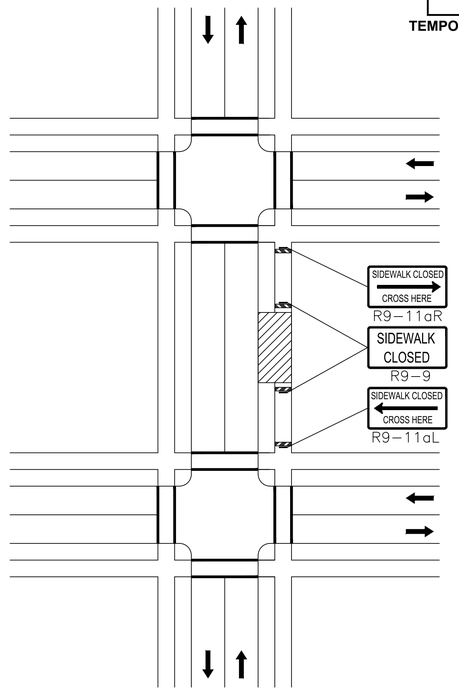
TEMPORARY TRAFFIC CONTROL PLANS



SINGLE LANE APPROACH
ONE QUADRANT CLOSURE

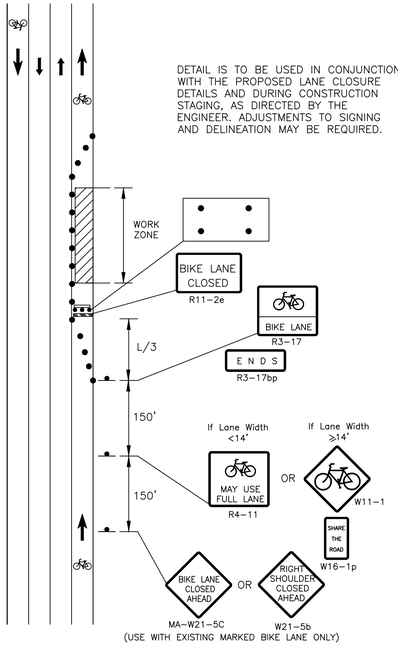


PEDESTRIAN DETOUR

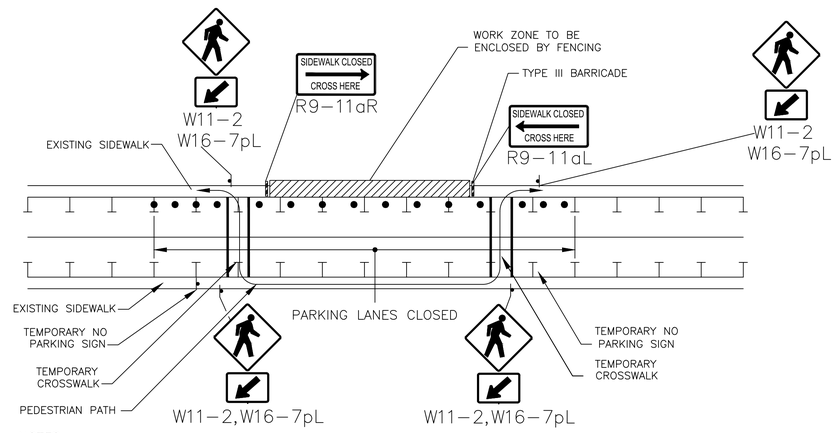


NOTE: IF A MINIMUM WIDTH OF 48" OF SOLID SMOOTH UNOBSTRUCTED SURFACE REMAINS ALONG THE WORK AREA THEN THE DETAIL CAN BE DISREGARDED. DELINEATION OF THE WORK AREA WILL STILL BE REQUIRED. All PEDESTRIAN DETOUR ROUTES SHALL BE ADA/MAAB COMPLIANT IN THEIR ENTIRETY.

SIDEWALK CLOSED WITHOUT DETOUR

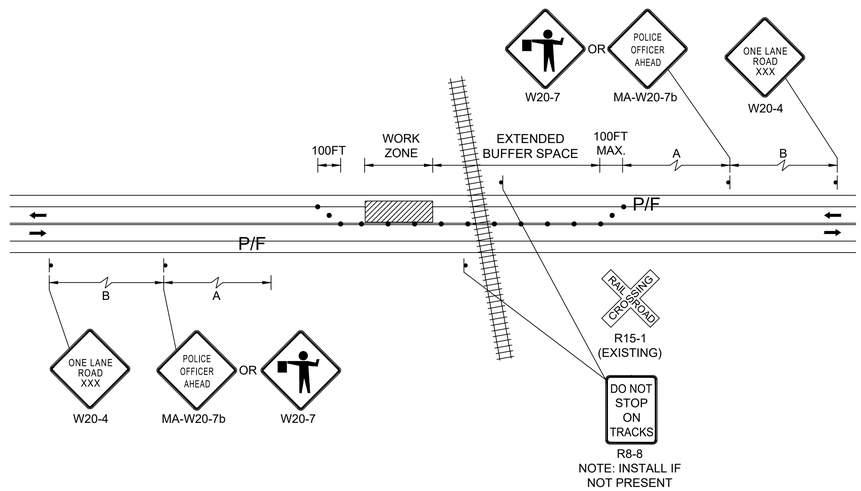


BIKE LANE CLOSURE
WITHOUT DETOUR



NOTES
1. ADDITIONAL ADVANCE WARNING MAY BE NECESSARY.
2. CONTROLS ONLY FOR PEDESTRIAN TRAFFIC ARE SHOWN. VEHICULAR TRAFFIC SHOULD BE HANDLED AS SHOWN ELSEWHERE.
3. STREET LIGHTING SHOULD BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
4. IF THE WORK ZONE DOES NOT PERMIT PEDESTRIANS TO TRAVEL ADJACENT TO IT AS SHOWN IN PEDESTRIAN BYPASS TYPE I, TEMPORARY CROSSWALKS WITH APPROPRIATE SIGNS SHOULD BE INSTALLED TO CROSS PEDESTRIANS TO THE OPPOSITE SIDE OF THE STREET AS SHOWN IN PEDESTRIAN BYPASS TYPE II, AND AS DIRECTED BY THE ENGINEER. TEMPORARY CURB RAMPS WILL BE REQUIRED AT ALL TEMPORARY CROSSWALK LOCATIONS.
5. BYPASS IS TO BE USED IN CONJUCTION WITH THE PROPOSED LANE CLOSURE DETAILS AND DURING CONSTRUCTION STAGING, AS DIRECTED BY THE ENGINEER.
6. THE TEMPORARY SIDEWALK SHOULD BE A MINIMUM OF 4 FEET WIDE. IF THIS WALKWAY EXCEEDS 200 FEET THEN A 5 FOOT X 5 FOOT PASSING ZONE. (FOR SHORT TERM SETUPS < 10 HOURS, THIS CONDITION MAY BE WAIVED. A NOTE WOULD NEED TO BE INCLUDED IN THE TTCP THAT STATES HOW THE CONTRACTOR SHOULD ADDRESS THIS ISSUE.)

PEDESTRIAN BYPASS



WORK NEAR RAILROAD CROSSING

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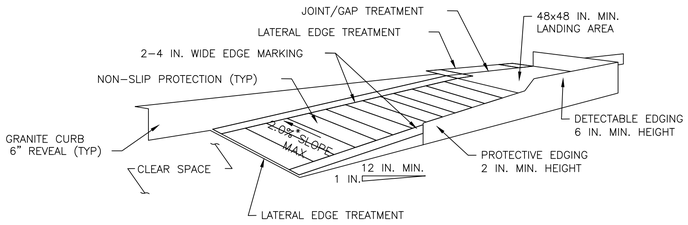
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

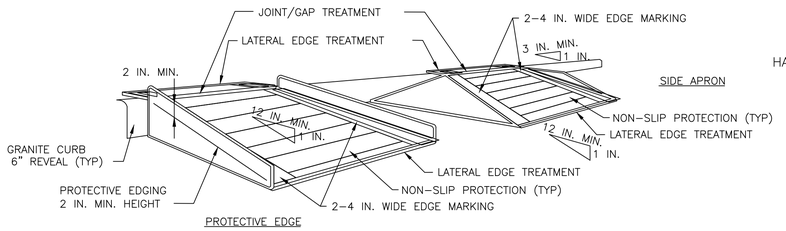
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MA	---	80	186
PROJECT FILE NO.	609204		

TEMPORARY TRAFFIC CONTROL PLANS

NOTES:

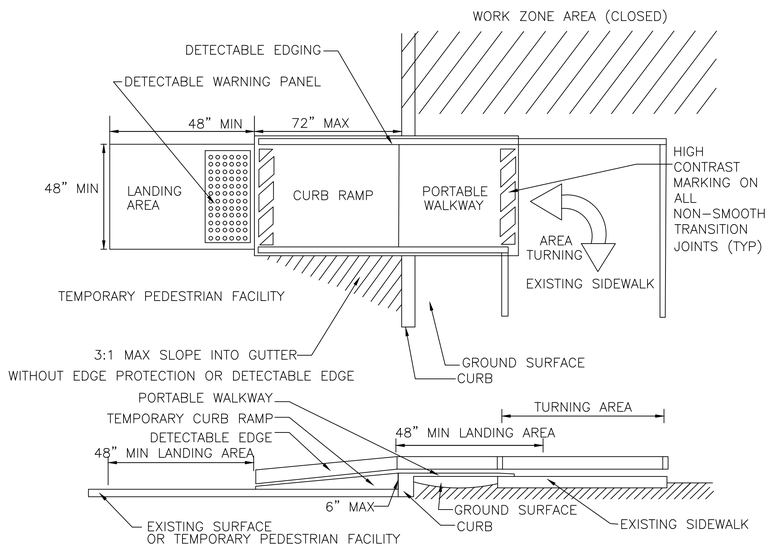
1. CURB RAMPS SHALL BE 60 IN. MINIMUM WIDTH WITH A FIRM, STABLE AND NON-SLIP SURFACE.
2. PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOP STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN. OR MORE.
3. DETECTABLE EDGING WITH 6 IN. MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAX CROSS-SLOPE.
5. CLEAR SPACE OF 48x48 IN. MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR 2 TO 4 IN. WIDE MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.
7. WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5 IN. WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 IN. HIGH, AND BEVELED AT 1:2 BETWEEN 0.25 IN. AND 0.5 IN. HEIGHT.

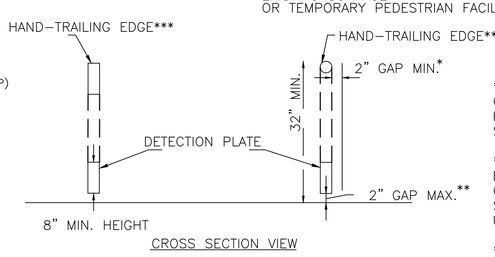




TEMPORARY CURB RAMP - PERPENDICULAR TO CURB

NOT TO SCALE





CROSS SECTION VIEW

PEDESTRIAN CHANNELIZING DEVICE

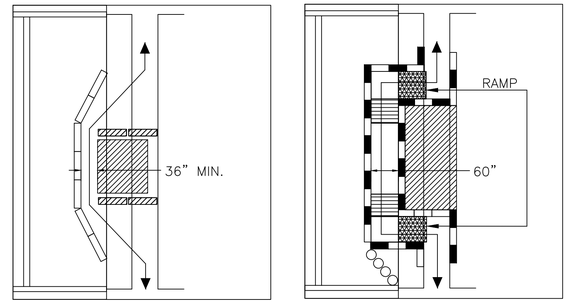
NOT TO SCALE

NOTES:

* THERE SHALL BE A 2 INCH GAP BETWEEN THE HAND-TRAILING EDGE AND ITS SUPPORT.

** A MAXIMUM 2 INCH GAP BETWEEN THE BOTTOM OF THE BOTTOM RAIL AND THE SURFACE MAY BE USED TO PROVIDE DRAINAGE

*** THE HAND-TRAILING EDGE AND DETECTION PLATE SHALL BE CONTINUOUS THROUGHOUT THE LENGTHOF THE PATH SUCH THAT A PEDESTRIAN USERWITH A LONG CANE CAN FOLLOW IT.



- When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, temporary facilities shall be provided and they shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility.
- A pedestrian channelizing device that is detectable by a person with a visual disability traveling with the aid of a long cane shall be placed across the full width of the closed sidewalk.
- When used, temporary ramps shall comply with Americans with Disabilities Act (see Figures Ped-1 & Ped-2).
- The alternate pathway should have a smooth continuous hard surface for the entire length of the temporary pedestrian facility.
- The protective requirements of a TTC situation have priority in determining the need for temporary traffic barriers and their use in this situation should be based on engineering judgment.
- Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.

AUDIBLE DEVICES

For long term sidewalk closures (at a minimum overnight) a form of speech messaging for pedestrians with visual disabilities shall be provided. Audible information devices such as detectable barriers or barricades and other passive pedestrian activation (motion activated) devices should be considered for these cases. These audible devices can be mountable or stand alone.

PEDESTRIAN DETAILS

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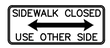
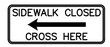
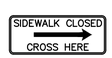
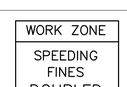
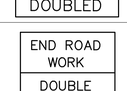
CONSTRUCTION SIGN SUMMARY

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	81	186
PROJECT FILE NO.	609204		

TEMPORARY TRAFFIC CONTROL PLANS

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	SIGN DIAGRAM	COLOR BACKGROUND	COLOR LEGEND	COLOR BORDER	# REQ'D *	UNIT AREA S.F.	AREA IN SQUARE FEET
W1-4L	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	2	9.00	18.00
W1-4R	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	2	9.00	18.00
W5-1	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	2	9.00	18.00
W11-1	30"	30"		FLUORESCENT ORANGE	BLACK	BLACK	1	6.25	6.25
W11-2	30"	30"		FLUORESCENT ORANGE	BLACK	BLACK	4	6.25	25.00
W13-1p	24"	24"		FLUORESCENT ORANGE	BLACK	BLACK	2	4.00	8.00
W16-1p	18"	24"		FLUORESCENT ORANGE	BLACK	BLACK	1	4.00	4.00
W16-9p	24"	12"		YELLOW	BLACK	BLACK	4	2.00	8.00
W20-1	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	5	9.00	45.00
W20-4	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	4	9.00	36.00
MA-W20-7b	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	4	9.00	36.00
W21-5a	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	1	9.00	9.00
W21-5C	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	1	9.00	9.00

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	SIGN DIAGRAM	COLOR BACKGROUND	COLOR LEGEND	COLOR BORDER	# REQ'D	UNIT AREA S.F.	AREA IN SQUARE FEET
R3-17	24"	18"		BLACK	WHITE	WHITE	1	3.00	3.00
R3-17bp	24"	8"		WHITE	BLACK	BLACK	1	1.33	1.33
R4-11	24"	24"		WHITE	BLACK	BLACK	2	2.00	4.00
R9-8	24"	12"		FLUORESCENT ORANGE	BLACK	BLACK	2	2.00	4.00
R9-9	24"	12"		FLUORESCENT ORANGE	BLACK	BLACK	4	2.00	8.00
R9-10	24"	12"		FLUORESCENT ORANGE	BLACK	BLACK	2	2.00	4.00
R9-11aL	24"	12"		FLUORESCENT ORANGE	BLACK	BLACK	2	2.00	4.00
R9-11aR	24"	12"		FLUORESCENT ORANGE	BLACK	BLACK	2	2.00	4.00
R11-2e	24"	12"		FLUORESCENT ORANGE	BLACK	BLACK	2	2.00	4.00
MA-R2-10a	48"	36"		FLUORESCENT ORANGE / WHITE	BLACK / BLACK	BLACK / BLACK	6	12.00	72
MA-R2-10e	36"	48"		FLUORESCENT ORANGE / WHITE	BLACK / BLACK	BLACK / BLACK	6	12.00	72

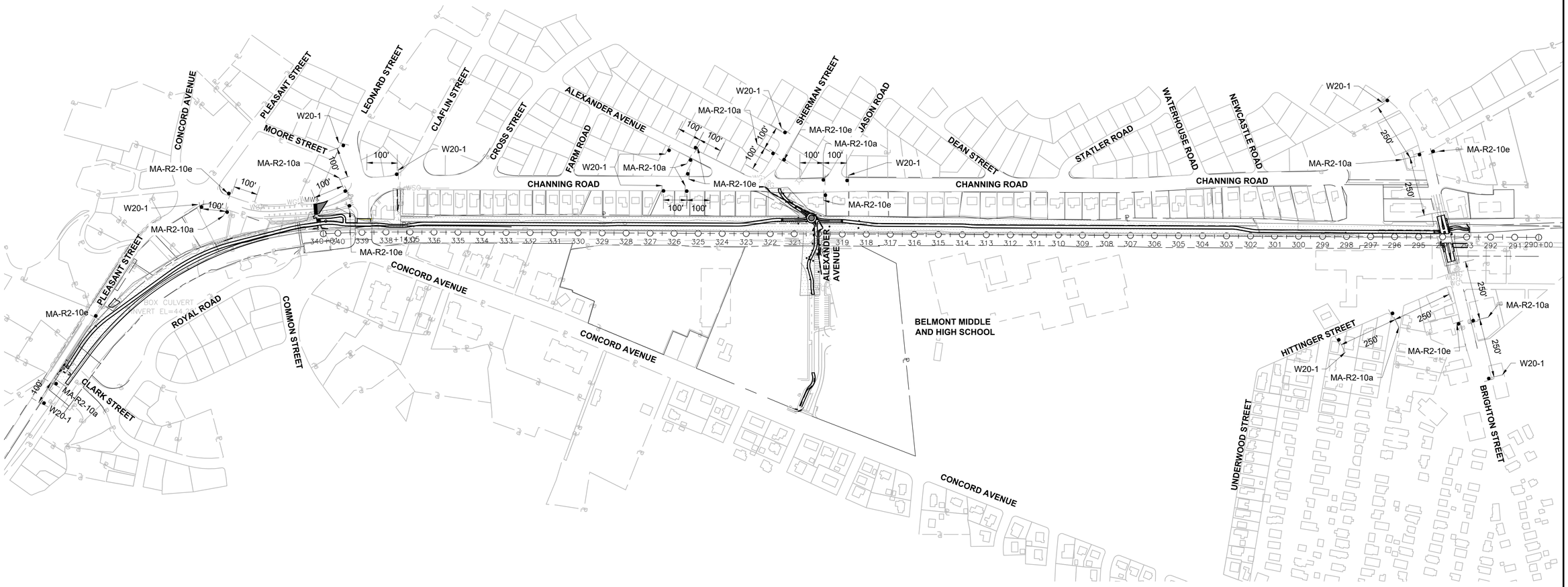
* NO. OF SIGNS ARE ESTIMATED FOR BIDDING PURPOSES ONLY

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609204_HD(TTCP).DWG Plotted on Feb-25 1:14 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	82	186
PROJECT FILE NO.		609204	

TEMPORARY TRAFFIC CONTROL PLANS



ADVANCE SIGNGE PLAN

NTS

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609204_HD(TTCP).DWG Plotted on Feb-25 1:14 PM

ELECTRICAL LEGEND:

WP	GROUND FAULT INTERRUPTING (GFI) TYPE DUPLEX CONVENIENCE OUTLET. MOUNTED 18" ABOVE FINISHED FLOOR WP - DENOTES TO BE PROVIDED WITH A WEATHERPROOF "IN-USE" COVER
TC	7 DAY, ASTRONOMICAL, DAY OMITTING, 24 HOUR TIMECLOCK WITH SKIP A DAY FEATURE. SIMILAR TO PARAGON 4 POLE ECTOOO SERIES
	ELECTRICAL HANDHOLE
SH	SECURITY CAMERA HANDHOLE
AV	CAMERA SYSTEM AUDIO / VIDEO HANDHOLE
	FUSED DISCONNECT SWITCH. SIZE AND RATING AS INDICATED ON DRAWINGS
M	METER
	UTILITY POLE
20A 1P	CIRCUIT BREAKER TOP VALUE DENOTES BREAKER RATING BOTTOM VALUE DENOTES NUMBER OF POLES
	CURRENT TRANSFORMER
	TRANSFORMER
	GROUND CONDUCTOR
	HOMERUN TO PANEL AS INDICATED ON DRAWINGS
	CONDUIT STUB
	WIRE BREAK
	POWER WIRING / CONDUIT
	TELEPHONE / DATA CONDUIT
	CAMERA AUDIO, VIDEO AND FIBER WIRING / CONDUIT
	POLE TOP LUMINAIRE

ABBREVIATIONS & NOTATION

1	REVISION TAG 1 - DENOTES REVISION NUMBER

ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
DW	DISHWASHER
EC	ELECTRICAL CONTRACTOR
EX	EXISTING TO REMAIN
ER	EXISTING RELOCATED
ED	EXISTING TO BE DEMOLISHED
ETR	EXISTING TO BE RELOCATED
EXR	EXISTING TO BE REPLACED
EXP	EXPLOSION PROOF
GC	GENERAL CONTRACTOR
IG	ISOLATED GROUND
MC	MECHANICAL CONTRACTOR
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PC	PHOTOCELL
TR	TAMPER RESISTANT
WP	WEATHERPROOF

GENERAL NOTES

1. PERFORM ALL WORK IN ACCORDANCE WITH NATIONAL AND STATE ELECTRICAL CODES, LOCAL ORDINANCES, AND REQUIREMENTS OF THE WIRING INSPECTOR.
2. MATERIALS
   a. ALL WIRING SHALL BE COPPER, CONDUCTORS WITH AMPACITIES OF 100 AMPS OR LESS OR CONDUCTORS MARKED AWG #14 THROUGH #1 SHALL BE 60°C. (UNLESS EQUIPMENT IS LISTED FOR HIGHER TEMPERATURES) CONDUCTORS OF HIGHER AMPACITIES OR LARGER GAUGES SHALL BE 75°C. REFER TO 2014 NEC art. 310.15(C)(1)(a)(3). FOR TYPE "NM" CABLE, SEE PARAGRAPH (c) BELOW.
   b. WHERE TYPES "NM" / "NM-B", "NMC & "NMS" ARE USED, THEY SHALL HAVE AN ALLOWABLE AMPACITY AS LISTED IN THE 60°C. (140°F) COLUMN IN THE 2014 NEC TABLE 310.15(B)(16). REFER TO 2014 NEC art. 334.80.
   c. GENERAL BRANCH WIRING SHALL BE TYPE "MC" CABLE FOR INTERIOR WIRING. EXPOSED BRANCH CIRCUIT WIRING SHALL BE IN "EMT".
   d. ALL PRODUCTS AND DEVICES SHALL BE NEW AND BEAR THE UNDERWRITERS' LABORATORIES LABEL. DEVICES SHALL BE SPECIFICATION GRADE. COLOR OF DEVICES SHALL BE COORDINATED WITH THE ARCHITECT.
3. PERFORM ALL WORK IN A WORKMANLIKE AND TIMELY MANNER SUBJECT TO THE APPROVAL OF THE ENGINEER.
4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSURANCE, PERMITS, FEES AND BACK-CHARGES REQUIRED FOR THE PERFORMANCE OF HIS/HER WORK.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE THE ELECTRICAL WORK WITH ALL OTHER TRADES. ANY CONFLICT SHALL BE PRESENTED TO THE GENERAL CONTRACTOR AND ENGINEER PRIOR TO INSTALLATION OF WORK.
6. PANEL DIRECTORIES SHALL REFLECT THE WORK PERFORMED UNDER THIS CONTRACT. PANELS SHALL BE PROVIDED WITH TYPED DIRECTORIES.
7. ALL PRODUCTS SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE BY OWNER.
8. ALL WIRING AND EQUIPMENT ARE DEPICTED DIAGRAMMATICALLY. FINAL LOCATIONS SHALL BE DETERMINED IN THE FIELD AND ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
9. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY POWER AND LIGHTING. SPECIAL PURPOSE POWER REQUIREMENTS SHALL BE PAID FOR BY THE TRADE REQUIRING SAME. (WELDERS, COMPRESSORS, ETC.)
10. SHOP DRAWINGS SHALL BE SUBMITTED ON ALL ELECTRICAL EQUIPMENT, BEFORE PROCUREMENT OF EQUIPMENT.
11. ALL NEW WIRING INDICATED ON PLANS SHALL MATCH THE AMPACITY OF THE CIRCUIT BREAKER INDICATED AT THE HOMERUN. WHERE NO BREAKER SIZE IS INDICATED, THE BREAKER SHALL BE 20A/P WITH #12 AWG CABLE.
12. WIRE AND CONDUIT SIZES INDICATED ON HOMERUNS SHALL RUN CONTINUOUS THROUGHOUT CIRCUIT.
13. CONDUITS AND CIRCUITRY INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. FINAL LOCATION OF CONDUITS SHALL BE FIELD COORDINATED SO AS TO AVOID CONFLICTS WITH OTHER TRADES.
14. ALL 120 VOLT BRANCH CIRCUITS WHEN 100 LINEAR FEET OR MORE FROM LAST OUTLET OR FIXTURE IN CIRCUIT TO RESPECTIVE PANELBOARDS SHALL BE A MINIMUM OF #10 AWG COPPER WIRE(S).
15. ALL 277 VOLT BRANCH CIRCUITS WHEN 200 LINEAR FEET OR MORE FROM LAST OUTLET OR FIXTURE IN CIRCUIT TO RESPECTIVE PANELBOARDS SHALL BE A MINIMUM OF #10 AWG COPPER WIRE(S).
16. THE ELECTRICAL CONTRACTOR SHALL VERIFY FIXTURE MOUNTING AND EXACT LOCATIONS AGAINST LANDSCAPE ARCHITECTS PLANS AND DETAIL DRAWINGS.
17. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE SELECTIVE ARC FLASH COORDINATION STUDY.

ELECTRICAL SPECIFICATIONS

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL CONSTRUCTION MATERIALS SHOWN OR REASONABLY IMPLIED ON THE DRAWINGS TO COMPLETE THE INSTALLATION IN A SATISFACTORY AND USABLE MANNER.

ALL WORK SHALL BE IN A MANNER TO COMPLY WITH THE REQUIREMENTS OF BROWN UNIVERSITY, THE WISHES OF THE LOCAL FIRE DEPARTMENT AND ANY LOCAL OR STATE BODIES HAVING JURISDICTION.

ELECTRICAL CONTRACTOR SHALL OBTAIN A PERMIT AND PAY ALL PERMIT AND INSPECTION FEES FOR HIS WORK.

ALL MATERIALS SHALL BE NEW AND U.L. LISTED. THIS CONTRACTOR SHALL DO ALL CUTTING AND PATCHING REQUIRED AND SHALL REMOVE DEBRIS FROM THE SITE.

EQUIPMENT MANUFACTURERS SHALL BE NOTED ON THE DRAWINGS AND IN THE SPECIFICATIONS. ANY SUBSTITUTIONS SHALL BE APPROVED BY THE ARCHITECT/ENGINEERS.

ALL FEEDER RUNS TO HAVE NO MORE THAN 4-90 DEGREES BENDS. PROVIDE HAND HOLES FOR FEEDER RUNS WITH MORE THAN 4-90 DEGREES BENDS OR OVER 150'. ALL HAND HOLES TO BE IN ACCESSIBLE LOCATIONS.

CONDUIT BENDS TO HAVE MINIMUM RADIUS OF 10 TIMES THE DIAMETER OF THE CONDUIT.

ALL DISTRIBUTION CONDUIT OR CONDUIT INSTALLED 18" BELOW GRADE CONDUIT EXPOSED TO OUTDOOR WEATHER SHALL BE HEAVY WALL GALVANIZED STEEL. CONDUIT COUPLINGS SHALL BE COMPRESSION TYPE.

ALL DISCONNECT SWITCHES, POWER PANELS, AND CIRCUIT BREAKERS SHALL BE CLEARLY IDENTIFIED.

ALL ELECTRICAL EQUIPMENT AND WORK EXPOSED TO OUTSIDE WEATHER SHALL BE WEATHERPROOF (NEMA 3R).

CONTRACTOR SHALL PURCHASE AND MAINTAIN SUCH INSURANCE THAT WILL PROTECT THE OWNER AND ENGINEER FROM AND AGAINST ANY CLAIMS, LOSS, COST OR DAMAGE FOR INJURY OR DEATH TO PERSONS OR DAMAGE TO PROPERTY INCLUDING COST OF LITIGATION AND ATTORNEY'S FEES) IN ANY MANNER ARISING FROM, INCIDENT TO, CONNECTED WITH, OR GROWING OUT OF THE WORK TO BE PERFORMED UNDER THIS CONTRACT. FURNISH CERTIFICATIONS OF INSURANCE IN THE AMOUNT REQUIRED BY THE OWNER AND LISTING THE OWNER AND THE ENGINEER TO BE HELD HARMLESS.

ALL POWER AND LIGHTING WIRE SHALL BE MINIMUM NO. 12 AWG COPPER OR AS OTHERWISE INDICATED ON THE DRAWINGS. (TYPE "THWN")

THIS CONTRACTOR SHALL SPECIFICALLY NOTE THAT THE ELECTRICAL DRAWINGS ARE INTENDED TO INDICATE ONLY THE EXTENT DIAGRAMMATICALLY, THE GENERAL LOCATION AND CHARACTER OF THE WORK INCLUDED. WORK INTENDED BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED OR NOT SHOWN IN THE DRAWINGS ARE FOR IDENTIFICATION ONLY. THE BALANCING OF THE LOADS ON THE PANELS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL ELECTRICAL EQUIPMENT AND CONTROLS NOTED "BY THE OWNER" THROUGHOUT THE ELECTRICAL PLANS WILL BE FURNISHED BY ANOTHER DIVISION OF THE CONTRACT BUT SHALL BE RECEIVED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

ALL SIZES REGARDING PROTECTION, FEEDERS, AND CONTROLS ARE BASED ON THE PRELIMINARY DESIGN DATA. ELECTRICAL CONTRACTOR TO REVIEW EXISTING AND NEW NAMEPLATE DATA, MOTOR RATINGS AND LOADS REQUIREMENTS AND PROVIDE ANY NEEDED ADJUSTMENTS.

THE CONTRACTOR SHALL VISUALLY SURVEY THE PREMISES BEFORE SUBMITTING HIS PROPOSAL AND IF THERE ARE ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE ACTUAL CONDITIONS HE SHALL CONSULT THE OWNER/ENGINEER FOR CLARIFICATION. ON SUBMISSION OF HIS PROPOSAL IT SHALL BE AGREED BY ALL PERSONS INVOLVED THAT THE WORK CAN BE AND WILL BE INSTALLED AS SHOWN OR AS MODIFIED IN WRITING BY THE OWNER/ENGINEER. ALSO, HE SHOULD FAMILIARIZE HIMSELF WITH THE SCHEDULE OF CONSTRUCTION, SHOP DRAWINGS FOR ALL SPECIFIED EQUIPMENT, MATERIAL, ETC. SHALL BE SUBMITTED FOR APPROVAL PRIOR TO THE PROCUREMENT.

PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN ALL DISTRIBUTION POWER EQUIPMENT AND PANELS.

ALL CONDUIT SHALL BE SIZED ACCORDING TO CODE UNLESS OTHERWISE NOTED ON THE DRAWINGS. MINIMUM SIZE TO BE USED IS 3/4".

ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST NATIONAL ELECTRICAL CODES, AS WELL AS THE LATEST MASSACHUSETTS ELECTRICAL CODE, LOCAL FIRE DEPARTMENT AND OSHA REQUIREMENTS.

ALL ELECTRICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND MANUFACTURERS EQUIPMENT DATA AND ALL OTHER DRAWINGS RELATED TO THE PERFORMANCE OF THE WORK.

ALL ELECTRICAL EQUIPMENT (PANELS, CONDUIT, WIRE, ETC.) AND RACEWAY SHALL BE PROPERLY SUPPORTED WITHIN TRENCHES.

THE CONTRACTOR SHALL GUARANTEE ALL OF HIS WORK FOR ONE YEAR AFTER THE DATE OF WRITTEN ACCEPTANCE BY THE OWNER AGAINST ALL DEFECTS IN MATERIAL AND WORKMANSHIP. ALL SUCH DEFECTS APPEARING WITHIN THE GUARANTEE PERIOD SHALL BE PROMPTLY REMEDIED WITHOUT COST OF OWNER. ALL ELECTRICAL EQUIPMENT INSTALLATIONS SHALL BE GUARANTEED TO OPERATE SATISFACTORY. THE CONTRACTOR MUST VERIFY EXISTING CONDITIONS AND LOCATIONS IN THE FIELD, PRIOR TO SUBMITTING A PROPOSAL. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT.

THE CONTRACTOR SHALL ADJUST HIS WORK AS REQUIRED TO AVOID CONDITIONS NOT SHOWN ON PLANS WITHOUT ANY FURTHER COST TO THE OWNER.

THE CONTRACTOR AFTER INSPECTING THE PREMISES AND THE DRAWINGS SHALL CALL TO THE ATTENTION OF THE ENGINEER ANY LACK OF THE SPACE OR CLEARANCE REQUIRED BY THE VARIOUS EQUIPMENT BEFORE THE CONTRACT IS SIGNED.

THE CONTRACTOR SHALL REMOVE RUBBISH AND DEBRIS RESULTING FROM HIS WORK ON A DAILY BASIS. THE JOB SITE MUST BE LEFT CLEAN AND TIDY AT THE END OF EACH WORKDAY. RUBBISH NOT REMOVED BY THE CONTRACTOR WILL BE REMOVED BY THE GENERAL CONTRACTOR AND THERE WILL BE BACK CHARGES TO THE CONTRACTOR.

ALL CONDUIT, RACEWAY, AND ELECTRICAL APPARATUS SHALL BE INSTALLED AS NEATLY AS POSSIBLE AND IN SUCH A MANNER AS TO AFFORD MINIMUM INTERFERENCE WITH OTHER TRADES.

ALL CONDUIT SHOULD BE SUPPORTED A MINIMUM OF 6 FEET ON CENTER AND WITHIN 3 FEET OF COUPLINGS IN COMPLIANCE WITH CODE REQUIREMENTS.

ALL JUNCTION BOXES AND SUPPORT BOXES ARE TO BE SUPPORTED

NO FLEXIBLE ELECTRICAL METALLIC CONDUIT (GREENFIELD) SMALLER THAN 1/2 INCH SHALL BE USED UNLESS SPECIAL PERMISSION IS GRANTED.

THE AMPACITY OF THE MULTIPLE CONDUCTORS IN ONE CONDUIT SHALL BE RATED PER NEC TABLE 310.15(B)(3)(a).

ALL CONDUIT BREAKERS SHALL BE THE BOLT-ON TYPE.

ALL RECEPTACLES ARE TO BE RATED FOR 20 AMPS. (MINIMUM)

ANY EQUIPMENT AND RECEPTACLES INSTALLED MUST BE IDENTIFIED ON THE DIRECTORY CARD WITH THE DATE IN THE ELECTRICAL AND POWER PANELS.

WHEN INSTALLING ELECTRICAL PANELS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ALL THE CIRCUITS ON THE DIRECTORY CARD WITH THE DATE.

COLOR CODE FOR CONDUCTORS FOR SECONDARY FEEDERS AND BRANCH CIRCUITS ARE TO BE AS INDICATED BELOW:

PHASE	120/208 VOLT
A----	BLACK
B----	RED
C----	BLUE
NEUTRAL	WHITE
GROUND-	GREEN

ELECTRICAL METALLIC CONDUIT ALONG WITH COMPRESSION CONNECTORS AND COUPLING MAY BE USED IN DRY AREAS ONLY.

TO ASSURE EFFECTIVE GROUNDING, ALL CONDUIT, EQUIPMENTS, AND METAL ENCLOSURE SHALL HAVE A CONTINUOUS PATH TO GROUND WITH SUFFICIENTLY LOW IMPEDANCE TO LIMIT THE POTENTIAL ABOVE GROUND, AND TO FACILITATE THE OPERATION OF THE OVER CURRENT DEVICES IN THE CIRCUITS.

STANDARD WIRING SHALL BE OF THHN INSULATION AND THWN INSULATION FOR AREAS WITH HIGH MOISTURE. NO TW INSULATION IS PERMITTED.

THE PROJECT WILL NOT BE CONSIDERED COMPLETE UNTIL AS-BUILT DRAWINGS WITH HOME RUNS IDENTIFIED ARE RECEIVED BY THE OWNER.

ALL CONTRACTORS MUST FOLLOW STANDARD OSHA LOCK-OUT AND TAG-OUT PROCEDURES.

WHERE A CONFLICT ARISES BETWEEN THE SPECIFICATIONS AND THE DRAWINGS THE WORST CASE SCENARIO SHALL PREVAIL.

ALL DISTRIBUTION EQUIPMENT AND PANELBOARDS SHALL BE MANUFACTURED BY EATON / CUTLER HAMMER.

LOCATION: AS INDICATED — PANEL: "LP1" — VOLTAGE: 120/208V., 3Ø-4W — 10k AIC
MOUNTING: AS INDICATED — RATING: 100A. M.C.B. — TYPE OF MAIN: 100A. M.C.B. — 42 POLE

DESCRIPTION	VOLTAMPS ØA	VOLTAMPS ØB	VOLTAMPS ØC	FRAME	TRIP	POLES	CKTS	POLES	TRIP	FRAME	VOLTAMPS ØA	VOLTAMPS ØB	VOLTAMPS ØC	DESCRIPTION
LIGHTING	400			-	20	1	1	2	1	20	-	360			RECEPTACLE
ENCLOSURE HEATER		500		-	20	1	3	4	1	20	-		500		TIMECLOCK
SPARE			·	-	20	1	5	6	1	20	-			·	SPARE
SPARE	·			-	20	1	7	8	1	20	-	·			SPARE
SPARE		·		-	20	1	9	10	1	20	-		·		SPARE
SPARE			·	-	20	1	11	12	1	20	-			·	SPARE
SPARE	·			-	20	1	13	14	1	20	-	·			SPARE
SPARE		·		-	20	1	15	16	1	20	-		·		SPARE
SPARE			·	-	20	1	17	18	1	20	-			·	SPARE

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	83	186
PROJECT FILE NO.	609204		

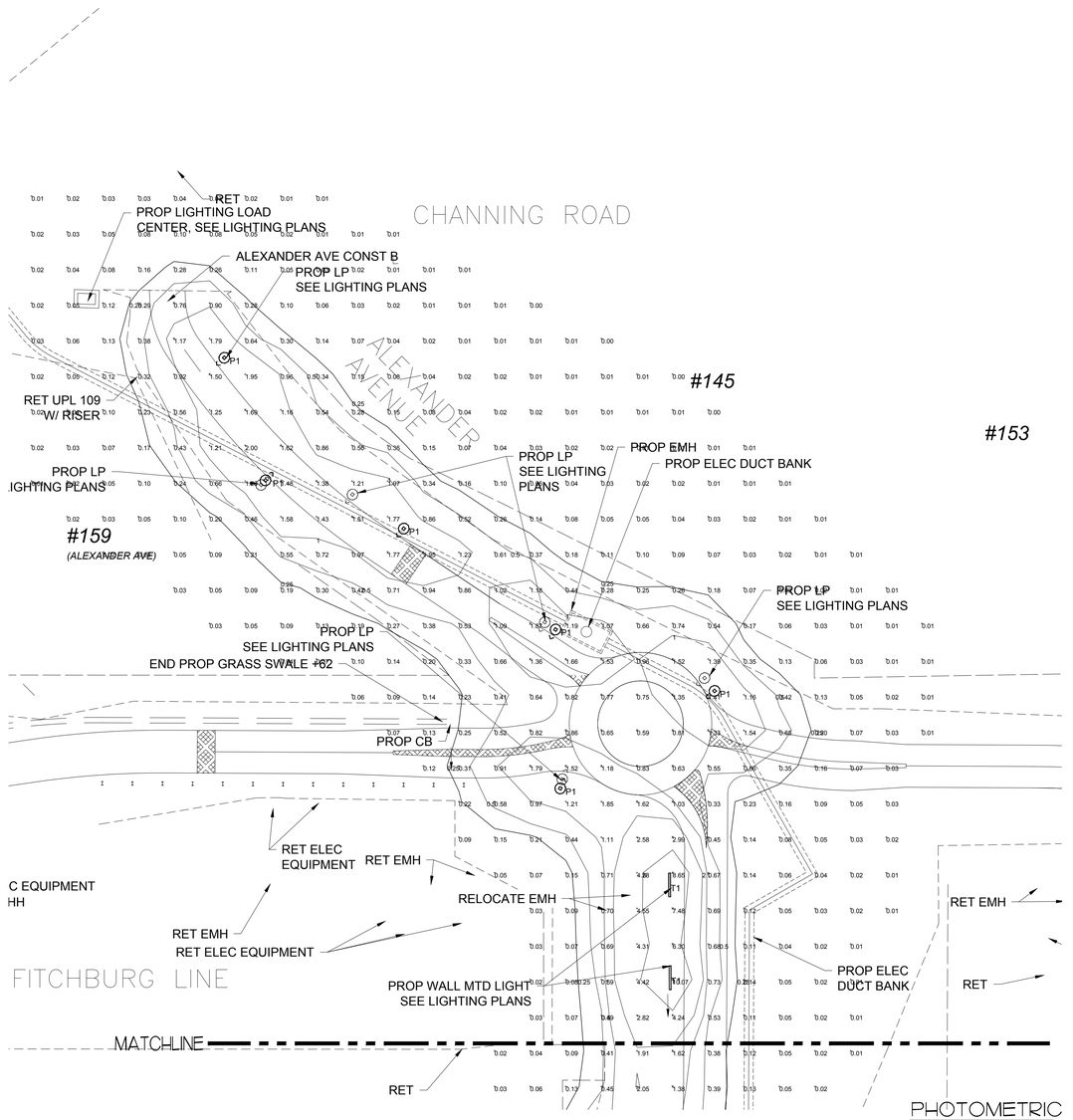
LEGEND, SCHEDULE & NOTES

ES0.1.DWG Plotted on 30-Jan-2025 5:14 PM

MassDOT DWT Name: ####################
MassDOT DWT Version: ######
MassDOT CAD Standard Release: ####
Release Date: ##########

LUMINAIRE SCHEDULE							
Symbol	Label	Qty	Catalog Number	Description	Lamp	Lumens	LLF	Watts
⊙	P1	11	GARDCO: PPT-140L-450-CW-G2-2--UNV	Pureform PEDESTRIAN Sconce (PPT), 140 LED's, 5000K CCT, TYPE 2 OPTIC (12'-0" MOUNTING HEIGHT)	(1) Circular Light Guide Plate DRIVEN AT 450mA	Absolute	1.00	22.30582
▬	T1	2	LUMEC: TBL2-24L-740-G1-DTA-350	Tubeline Tunnel Lighting, 2 meter	(2) LED Array DRIVEN AT 350mA	Absolute	1.00	30.6

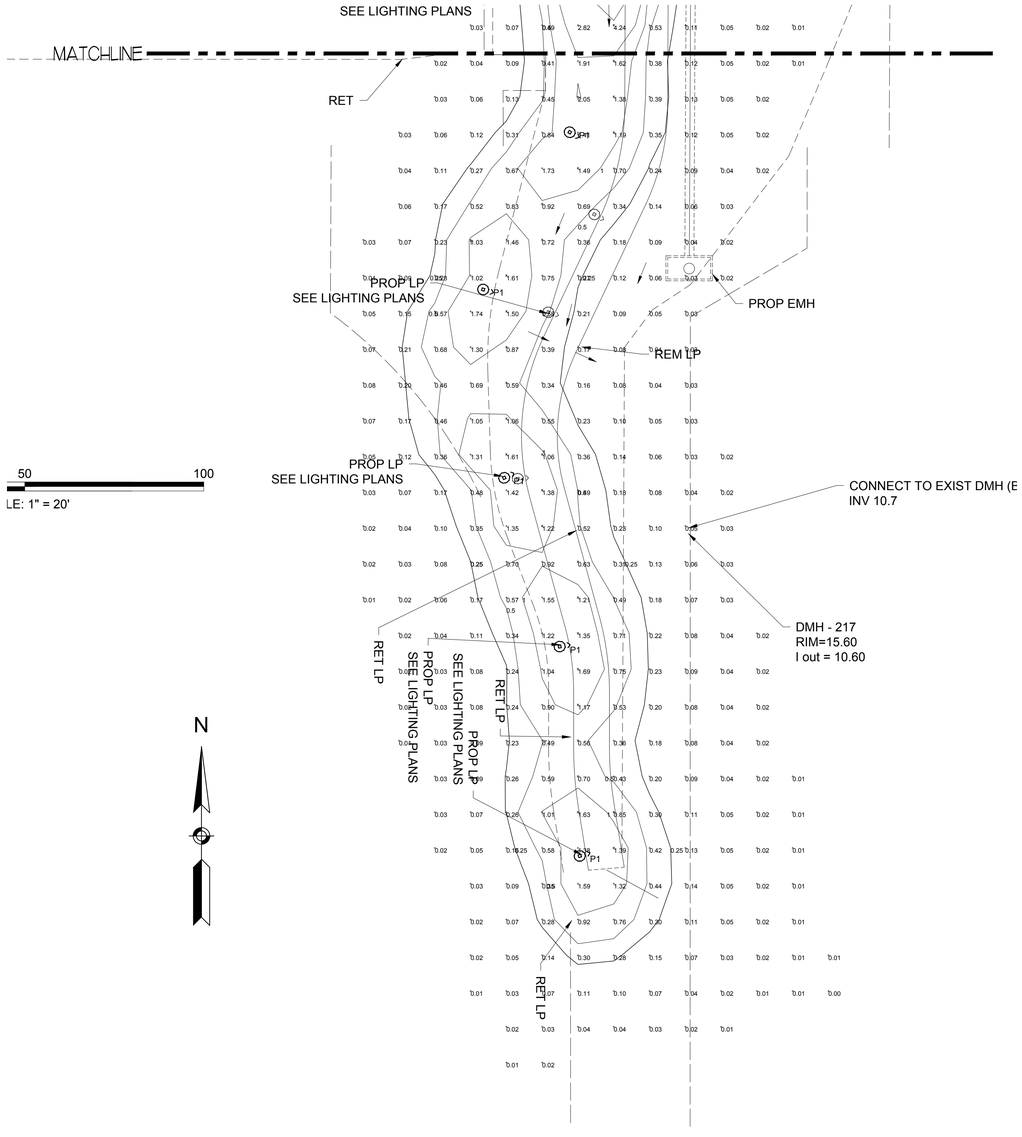
STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PATHWAY	+	1.67 fc	10.07 fc	0.55 fc	18.3:1	3.0:1



PHOTOMETRIC PLAN
1" = 20'-0"

50 100
LE: 1" = 20'

N



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BELMONT
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MA	---	84	186
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PHOTOMETRIC PLAN

SHEET 01 - PHASE 1.DWG Plotted on 30-Jan-2025 5:14 PM

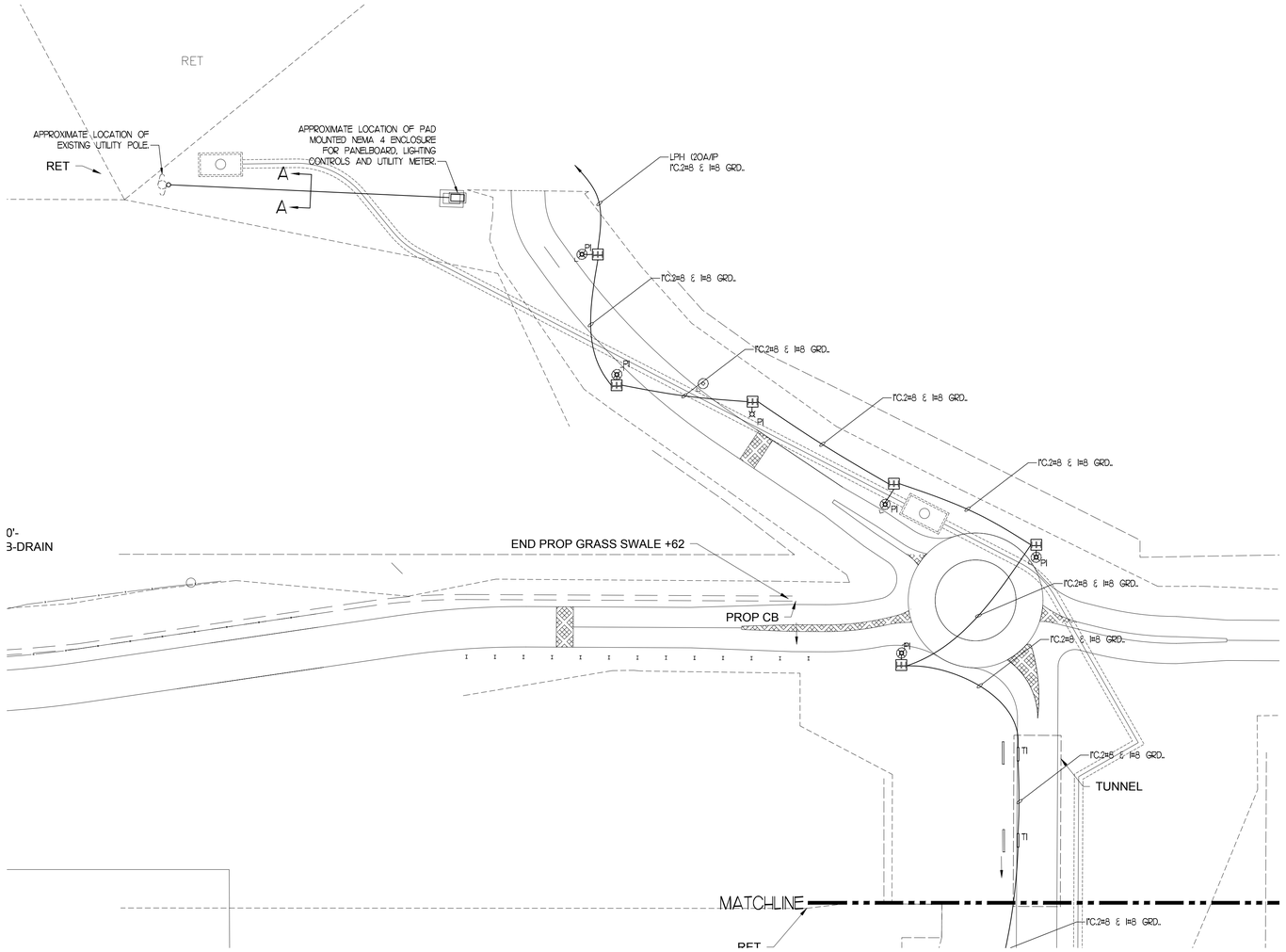
MassDOT DWT Name: ####################
MassDOT DWT Version: #####
MassDOT CAD Standard Release: ####
Release Date: ########

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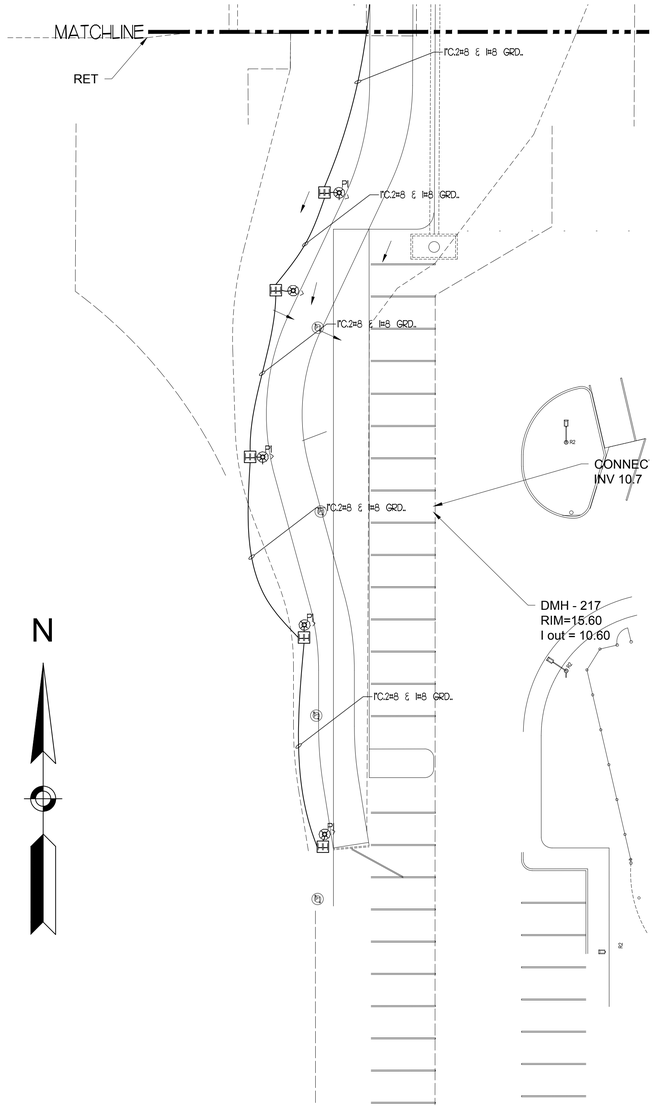
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	85	186
PROJECT FILE NO.	609204		

LIGHTING PLAN



SITE LIGHTING PLAN
SCALE: 1" = 20'-0"



SHEET 02 - PHASE 1.DWG Plotted on 30-Jan-2025 5:14 PM

MassDOT DMT Name: ####################
MassDOT DOT Version: #####
MassDOT CAD Standard Release: ####
Release Date: #########

GARDCO by Signify

Site & Area

PureForm

PPT post top with comfort optics



Gardco PureForm LED post top features a sleek, low profile design. Comfort optics are designed to enhance visual comfort by reducing glare. Type 1, 2, 3, and 5 optical distributions are available with lumen output up to 9000 lumens. A full range of control options provides additional energy savings. Optional integral emergency battery backup is available for path-of-egress illumination.

Project:
Location:
Cat.No:
Type:
Lamps: Qty:
Notes:

Ordering guide

example: PPT-140L-450-NW-G2-T3-1-UNV-DGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Emergency	Voltage
PPT	**140L** 140 LEDs	**450** 450 mA **650** 650 mA **1150** 1150 mA[1] **1675** 1675 mA[1] **2100** 2100 mA[1,2]	**WW-G2** Warm White 3000K 70CRI Generation 2 **NW-G2** Neutral White 4000K 70CRI Generation 2 **CW-G2** Cool White 5000K, 70CRI Generation 2 **WY-G2** Warm Yellow 2700K, 80 CRI Generation 2[3] **BW-G2** Balanced White 3500K (80 CRI) Generation 2[3] **AM-G2** Amber Generation 2[3,5]	**T1** Mounts to a 3" x 4" Tenon (standard) **T2** Mounts to a 2-3/8" x 4" Tenon (must be ordered and shipped as a separate accessory)	**1** Comfort Type 1 **2** Comfort Type 2 **3** Comfort Type 3 **5** Comfort Type 5	Leave blank for no battery **EBPC** Emergency battery pack cold weather[14,15,17] **EBP** Emergency battery pack[14,15]	**120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V **UNV** 120-277V (50/60Hz) **HVU** 347-480V (50/60Hz)

Options					
Dimming controls	Motion sensing	Photo-sensing	Electrical/Shield	Finish	
DD 0-10V External dimming (by others)[4] **FAWS** Field Adjustable Wattage Selector[4,5] **SW** Interface module for SiteWise[16,18] **LLC** Integral wireless module[16,17,18] **BL** Bi-level functionality[4,18] **DynaDimmer:** Automatic Profile Dimming[4,7] **CS50** Security 50% Dimming, 7 hours **CM50** Median 50% Dimming, 8 hours **CS30** Security 30% Dimming, 7 hours **CM30** Median 30% Dimming, 8 hours	**IMRI3** Integral with #3 lens[13]	**PCB** Photocontrol Button[19] **TLR05** Twist Lock Receptacle 5 Pin[9,20] **TLR07** Twist Lock Receptacle 7 Pin[9,20] **TLRPC** Twist Lock Receptacle w/Photocell[9,10,20]	**Fusing** **F1** Single (120, 277, 347VAC)[8] **F2** Double (208, 240, 480VAC)[8] **F3** Canadian Double-Pull (208, 240, 480VAC)[8] **Surge Protection** (10kA standard) **SP2** Increased 20kA **EHS** External house side shield (factory installed)	**Textured** **BK** Black **WH** White **BZ** Bronze **DGY** Dark Gray **MDY** Medium Gray **Customer specified** **RAL** Specify optional color or RAL (ex: RAL7024) **CC** Custom color (Must supply color chip for required factory quote)	

1. 1150, 1675, and 2100mA not available with emergency battery backup (EBP).
2. 2100mA not available with emergency battery backup cold weather (EBPC).
3. Extended lead times apply. Contact factory for details.
4. Not available with other control options.
5. Not available with motion sensor.
6. Not available with photocontrol.
7. Not available in 347 or 480V.
8. Available only in 120 or 277V.
9. Must specify input voltage.
10. Dimming will not be connected to NEMA receptacle if ordering with other control options.
11. Not available in 480V.
12. Not available in 2100mA.
13. Not available with D2 and FAWS dimming control options.
14. Must specify a motion sensor lens.
15. Cannot be combined with HVU and BL-IMRI3.

LPI INNOVATION AWARDS

3000K only

PPT_PureForm_post_top 05/20 page 1 of 5

LUMEC by Signify

Tunnel

TubeLine

TBL Tunnel luminaire



Lumec TubeLine tunnel luminaire features a slim, low profile design that provides design flexibility for demanding tunnel applications. Product design consists of a luminaire and separate driver box, so please ensure to order both separately per the details below.

Project:
Location:
Cat.No:
Type:
Lumens: Qty:
Notes:

Ordering guide – Luminaire

example: TBL2-24L-740-G1-DTA-NB-Od1-W2S

Prefix	Module Length	LED Module Qty	CRI & CCT	Board Generation	Optical System	Mounting Bracket	Wire Entry
TBL TubeLine tunnel luminaire	**2** 2 meter **Note:** 1 meter version with 12 or 24 LEDs is available as special order. Please consult local representative.	**24L** 24 LEDs **48L** 48 LEDs	**730** 70CRI 3000K **740** 70CRI 4000K	**G1** Generation 1	**Asymmetrical:** **DTA** Standard Beam **DTA-NB** Narrow Beam **DTA-WB** Wide Beam **Symetrical:** **DTS** Standard Beam **DTS-NB** Narrow Beam **DTS-WB** Wide Beam	**Od1** Fix 0° version 1 **Od2** Fix 0° version 2 **SV** Swivel	**W1S** Wired 1 side **W2S** Wired 2 sides

Ordering guide – Driver Box

example 1 driver: TBX-1D-D-UNV-DMG-GY3
example 2 drivers: TBX-2D-F-F-UNV-DMG-GY3

Prefix	Driver Qty	Driver 1 Watt and Drive Current[1,2]	Driver 2 Watt and Drive Current[1,2]	Ballast	Driver Options[3]	Luminaire Options	Finish
TBX TubeLine tunnel/ underpass driver box	**1D** 1 Driver **2D** 2 Drivers	**A**[7,8] **B**[4] **C** **D**[7,9] **E**[4] **F** **G**[7,9] **H**[4] **I** **J**[7,10] **K** **L**[4]	**A**[7,8] **B**[4] **C** **D**[7,9] **E**[4] **F** **G**[7,9] **H**[4] **I** **J**[7,10] **K** **L**[4]	**UNV** 120-277VAC **HVU** 347-480VAC **120**[4] 120VAC **208**[4] 208VAC **240**[4] 240VAC **277**[4] 277VAC **347**[4] 347VAC **480**[4] 480VAC	**DMG**[4] 0-10V **DALI**[4] Digitally Adressable Lighting Interface **SRD**[4] Sensor Ready Driver standard configuration **SRD1**[4] Sensor Ready Driver alternate configuration	**API** Factory Installed NEMA label, ANSI C136.15 compliant **F1**[4] Single Fuse Holder **F2**[4,11] Double Fuse Holder **JB1** Junction Box, 1" NPT entries **JB2** Junction Box, 3/4" NPT entries **NER**[12] Nyx Emera Ready **SP2** 20kV / 10kA Surge Protector (optional) **TLL**[4] Tool Less Entry Latches **TLRSR**[4] SR receptacle **VPA**[4] Vandal Proof Access	**GY3** Gray

1. Extended lead-time may apply. Consult factory.
2. See chart below for descriptions.
3. Only available with 2D Driver Qty.
4. Specific voltage (120, 208, 240, 277, 347 or 480) must be specified with fusing options (F1 or F2).
5. Select either DALI or DMG or SRD or SRD1 mandatory options.
6. Please note this integrated feature comes standard in this product.
7. Not available with HVU, 347V and 480V.
8. Only available with DMG Driver Options.
9. TLL and VPA option cannot be selected together.
10. Only available with 1D (1 Driver).
11. Only available with SRD or SRD1 Driver Options.
12. Not available with DMG Driver Option.
13. Not available with JB1 or JB2 options

Driver Wattage and Current Selection Chart

Drive Current (mA)	75W[13]		100W[14]		180W	
350	A	Min: 12 Max: 24	B	Min: 24 Max: 48	C	Min: 36 Max: 96
530	D	Min: 12 Max: 24	E	Min: 24 Max: 48	F	Min: 36 Max: 96
700	G	Min: 12 Max: 24	H	Min: 24 Max: 48	I	Min: 36 Max: 84
1050	J	Min: 12 Max: 24	K	Min: 24 Max: 24	L	Min: 24 Max: 60

Note: TBX system wattage is dictated by the sum of the luminaire wattages that are connected to it.

14. Number of luminaires that can be driven by a driver is dependent on total number of LEDs of the luminaire daisy chain.
15. Not available in HVU, 347, 480 or DMG Options.
16. Available with DMG option only.

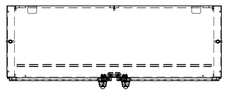
How to select driver box Watt and Drive current code:

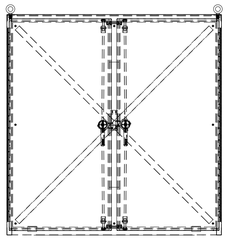
1. Select fixtures to be powered and drive current using Lumen chart
2. Add the numbers of LEDs of the fixtures selected
3. Select the code that match the total numbers of LEDs and Drive current selected
4. If the total number of LEDs exceeds the Max of the chart, an additional daisy chain is required

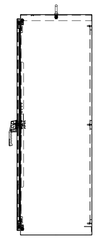
Maximum number of fixtures in a daisy chain is driven by drive current and total number of LEDs TBX driver box can have one driver or 2 drivers. Each driver will drive one fixture daisy chain.
Note: Internal control options, like NER, cannot be used if 2 drivers are selected.

Example:
Qty 3 of TBL-2-24L-740-G1-DTS @350 mA fixtures must be powered:
Numbers of LEDs is 3x24 = 72 LEDs
Using chart, the maximum numbers of LEDs per driver @350 mA is 96 using code "C"
So ordering code info for this example would be:
Driver box: Qty 1 of TBX-1D-C-UNV-DMG-TLL-GY3
Fixtures: Qty 2 of TBL-2-24L-740-G1-DTS-Od1-W2S
Qty 1 of TBL-2-24L-740-G1-DTS-Od1-W1S

TubeLine_tunnel_luminaire 01/21 page 1 of 7


TOP VIEW


FRONT VIEW


SIDE VIEW

48"x24" WEATHERPROOF ENCLOSURE

SCALE: NOT TO SCALE

EXTERIOR ENCLOSURE NOTES:

A. THE EXTERIOR ENCLOSURE SHALL BE PAD MOUNTED ON A CONCRETE PAD AND MANUFACTURED BY HOFFMAN. THE ENCLOSURE SHALL BE A TWO DOOR CONFIGURATION WITH A THREE-POINT LATCHING SYSTEM WITH PADLOCKING HANDLES AND A FOAM-IN-PLACE GASKET FOR SECURITY PURPOSES. THE ENCLOSURE SHALL BE NEMA 4, IP66 SUITED FOR USE IN OUTDOOR APPLICATIONS.

B. THE ENCLOSURE SHALL BE MANUFACTURED FROM 12 GAUGE TYPE 304 OR 316L STAINLESS STEEL. BACK PANELS SHALL BE 10 GAUGE STAINLESS STEEL WITH X-FORM STIFFENERS. SEAMS SHALL BE CONTINUOUSLY WELDED AND GROUND SMOOTH. NO HOLES OR KNOCKOUTS WILL BE PERMITTED.

C. A REMOVABLE CENTER-POST FOR EASY PANEL INSTALLATION SHALL BE PROVIDED ALONG WITH COLLAR STUDS FOR MOUNTING OPTIONAL PANELS. MOUNTING PANEL AND PANEL SUPPORTS SHALL BE INCLUDED.

D. HEAVY-DUTY LIFTING EYES SHALL BE TYPE 316L STAINLESS STEEL.

E. HEAVY-DUTY 3-POINT LATCHING MECHANISM OPERATED BY TYPE 316L STAINLESS STEEL POWERGLIDE PADLOCKING HANDLES SHALL BE INCLUDED.

F. BODY FLANGE TROUGH COLLAR SHALL EXCLUDE LIQUIDS AND CONTAMINANTS

G. HEAVY-DUTY STAINLESS STEEL CONTINUOUS HINGES SHALL SUPPORT EACH DOOR

H. BONDING PROVISION ON DOORS ALONG WITH GROUNDING STUDS ON BODY SHALL BE PROVIDED.

I. ACCESSORY MOUNTING CHANNEL SHALL BE PROVIDED IN ENCLOSURE TOP.

J. DATA POCKET SHALL BE HIGH-IMPACT THERMOPLASTIC AND MOUNTED TO THE INSIDE OF THE DOORS.

K. 12" REMOVABLE FLOOR STANDS SHALL BE BOLTED TO ENCLOSURE.

L. SEAMLESS FOAM-IN-PLACE ONE-PIECE GASKET SHALL PROVIDE OIL-TIGHT AND DUST-TIGHT SEAL AGAINST CONTAMINANTS.

M. EXTERNAL HARDWARE MANUFACTURED OF TYPE 316 STAINLESS STEEL AND THE ENCLOSURE SHALL BE UNPAINTED AND FRONT, SIDES, TOP AND BACK SHALL A HAVE SMOOTH #4 BRUSHED FINISH.

HANDHOLE

SCALE: NOT TO SCALE

HANDHOLE NOTES:

A. THE LOCATION OF OUTLETS SHOWN ON DRAWINGS IS APPROXIMATE. THE ELECTRICAL CONTRACTOR SHALL STUDY THE PLANS IN RELATION TO THE AREAS AND EQUIPMENT SURROUNDING EACH HAND HOLE SO THAT HAND HOLES OR OTHER ELECTRICAL COMPONENTS ARE SYMMETRICALLY LOCATED AND ARE IN LINE WITH ONE ANOTHER FOR EASE OF PULLING CONDUCTORS.

B. HAND HOLES OR PULL BOXES, SHOWN ON THE DRAWINGS, THAT INTERFERE WITH THE INSTALLATION OF SUB-SURFACE UTILITIES, STRUCTURAL POLE BASES OR ARCHITECTURAL FEATURES, OR THAT WILL BE INACCESSIBLE DUE TO THE WORK OF OTHER TRADES SHALL BE RELOCATED ACCORDINGLY.

C. HAND HOLES, JUNCTION OR PULL BOXES THAT ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS BUT ARE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL SYSTEM SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR, SO THAT THEY DO NOT INTERFERE WITH THE STRUCTURAL OR ARCHITECTURAL FEATURES AND THE INSTALLATION OF MATERIALS BY THE OTHER TRADES.

D. ANY REASONABLE CHANGE IN THE LOCATION OF HAND HOLES OR JUNCTION BOXES REQUESTED BY THE ENGINEER, PRIOR TO ROUGHING, SHALL NOT INVOLVE ADDITIONAL EXPENSE TO THE OWNER.

E. ALL HAND HOLES SHALL BE INSTALLED SO THAT THE COVER OF EACH HAND HOLE IS AT FINISHED GRADE.

F. FEEDERS AND BRANCH CIRCUITS PASSING THROUGH HAND HOLES SHALL BE INDIVIDUALLY GROUPED AND BOUND WITH TIE-RAPS. THE FEEDERS AND BRANCH CIRCUITS IN EACH HAND HOLE SHALL BE PROPERLY TAGGED TO CLEARLY INDICATE THEIR ELECTRICAL CHARACTERISTICS, CIRCUIT NUMBER AND PANEL DESIGNATION. CABLES SHALL BE SUPPORTED ON SUITABLE RACKS WITHIN THE BOXES AND ARRANGED IN AN ORDERLY MANNER.

G. HAND HOLES SHALL, IN GENERAL, BE AS FOLLOWS:

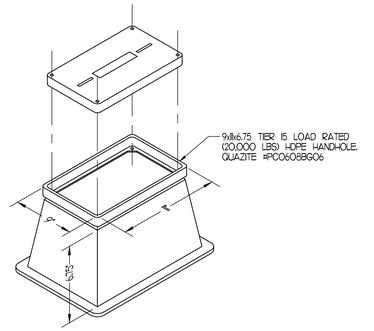
1. HAND HOLES SHALL BE A MINIMUM OF 9" X 11" X 6.75" DEEP WITH STRAIGHT SIDED AND A GASKETED COVER.
2. HAND HOLES SHALL BE FLUSH WITH GRADE AND COMPLY WITH THE 2023 NATIONAL ELECTRIC CODE.
3. EACH HAND HOLE SHALL BE MADE OF POLYMER CONCRETE AND BE STABLE UNDER FREEZE AND THAW CONDITIONS.
4. EACH HAND HOLE SHALL BE IMPACT RESISTANT AS TESTED PER ATM D-244 AND BE LOW WATER ABSORPTION, CORROSION RESISTANT, NON-FLAMMABLE AND NONCONDUCTIVE.
5. EACH HAND HOLE SHALL BE PROVIDED WITH A BOLTED, GASKETED TIER 5 COVER. THE HARDWARE SHALL BE STAINLESS STEEL.
6. EACH HAND HOLE COVER SHALL BE EMBOSSED WITH THE WORD "ELECTRICAL".
7. EACH HAND HOLE SHALL BE MANUFACTURED BY QUAZITE #PC0608BG06 OR EQUAL.

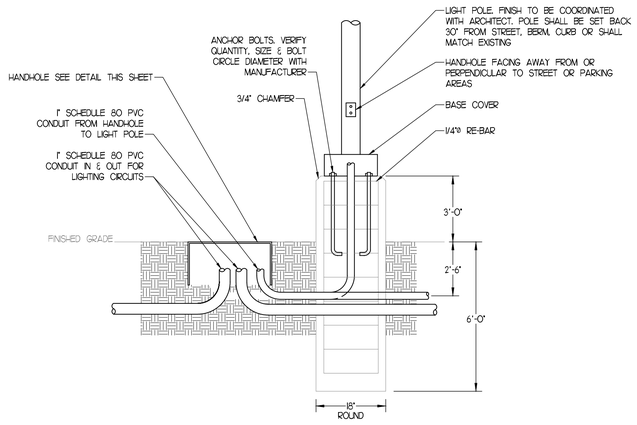
H. HAND HOLES SHALL BE PROPERLY SEALED DURING THE COURSE OF CONSTRUCTION TO PREVENT THE ENTRANCE OF DIRT AND FOREIGN MATERIALS.

I. EXPOSED, SURFACE MOUNTED OUTLET BOXES OR OUTLET BOXES INSTALLED IN NORMALLY WET LOCATIONS SHALL BE OF THE CAST METAL TYPE WITH THREADED HUBS AS MANUFACTURED BY PASS & SEYMOUR/LEGRAND, CROUSE-HINDS OR RED DOT.

J. OUTLET BOXES SHALL NOT BE LESS THAN 1-1/2 INCHES DEEP UNLESS SHALLOWER BOXES ARE REQUIRED BY STRUCTURAL CONDITIONS AND ARE SPECIFICALLY APPROVED BY THE ENGINEER.

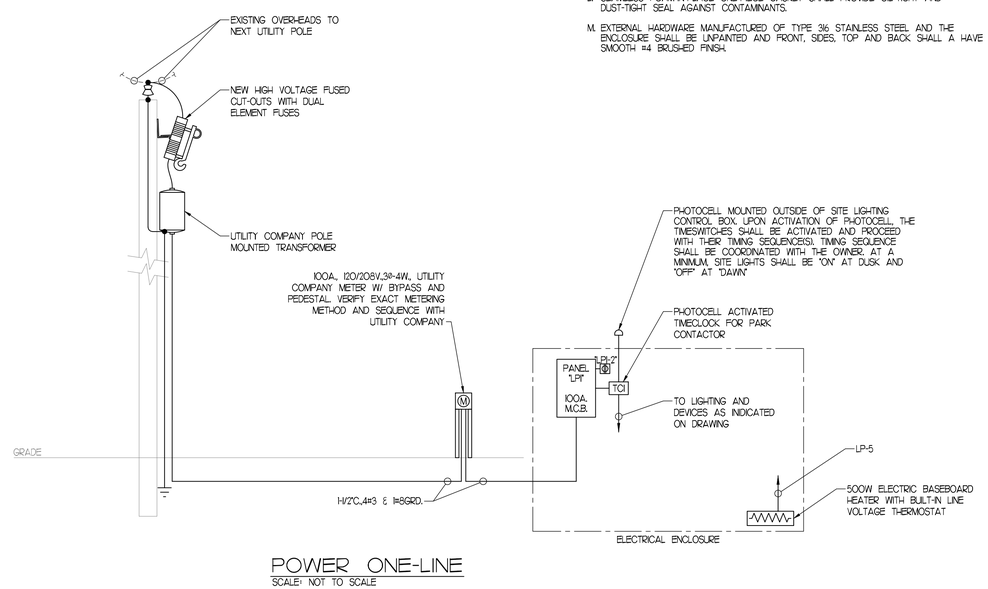
K. OUTLET BOXES ON THE EXTERIOR OF ANY STRUCTURE SHALL BE PROVIDED WITH UL LISTED WEATHERPROOF COVERS THAT ALLOW A PLUG TO BE IN PLACE WITH THE COVER IN CLOSED POSITION. COVERS SHALL BE SINGLE GANG, HORIZONTAL DUPLEX, ON-USE© APPLICATION IN ACCORDANCE WITH ARTICLE 406 OF THE NATIONAL ELECTRIC CODE AND AS MANUFACTURED BY PASS & SEYMOUR/LEGRAND.





POLE BASE & HANDHOLE DETAIL

SCALE: NOT TO SCALE



POWER ONE-LINE

SCALE: NOT TO SCALE

VINCENT A. DiIORIO, INC.
est. 1972
CONSULTING ENGINEERS
89 Access Rd. Suite 18
Norwood, MA 02062
(781)255-9754 | vadjr@vadeng.com
www.vadeng.com

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	86	186
	PROJECT FILE NO.	609204	

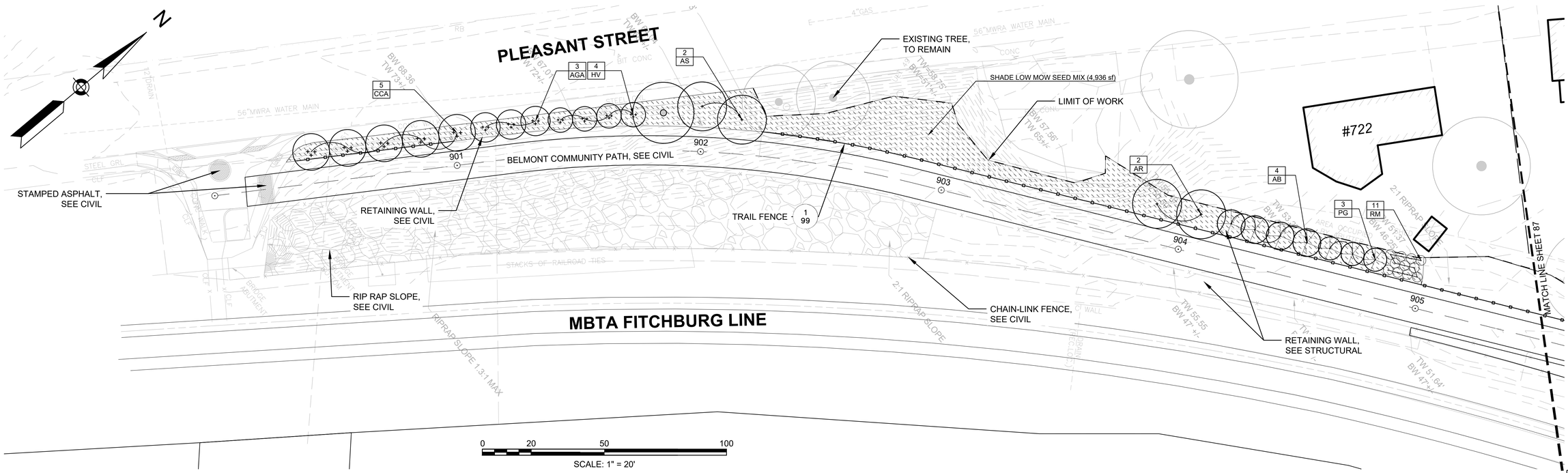
LIGHT FIXTURE SPECIFICATIONS & DETAILS

MassDOT DWT Name: ####################
MassDOT DWT Version: #####
MassDOT CAD Standard Release: ####
Release Date: #########

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	87	186
PROJECT FILE NO.	609204		

LANDSCAPE PLANS



PLANTING AND SOIL NOTES

1. IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
2. ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
3. THE LANDSCAPE ARCHITECT SHALL ONLY REVIEW TREES THAT ARE IN THE GROUND AT THE NURSERY. NO PRE-DUG TREES WILL BE ACCEPTED. THEREFORE TIMING OF IN-GROUND REVIEWS MUST BE COORDINATED WITH EXPECTED INSTALLATION DATES.
4. ALL NEW PLANTS TO BE BALLED & BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
5. THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
6. ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
7. ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
8. CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
9. STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
10. NEW SHRUBS AND GROUNDCOVER SHALL BEAR THE SAME RELATIONSHIP TO GRADE AS IT BORE TO PREVIOUS GRADE. TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
11. ALL PLANT BEDS TO RECEIVE UN-DYED, AGED AND SHREDDED BARK MULCH AS PER SPECIFICATIONS.
12. ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PROTECTION TECHNIQUES SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT.
13. PRUNE TREES IN ACCORDANCE WITH THE SPECIFICATIONS.
14. ALL PLANT MATERIAL SHALL BE MAINTAINED BY CONTRACTOR UNTIL FINAL ACCEPTANCE AND GUARANTEED FOR 1 CALENDAR YEAR.
15. CONFIRM ALL QUANTITIES AGAINST PLANTING PLANS, GRADING PLANS, AND SPECIFICATIONS, INCLUDING SITE DISTURBANCE OUTSIDE OF THE LIMIT OF GRADING NECESSITATED TO FACILITATE CONSTRUCTION.
16. WHERE SAND AND GRAVEL ARE SPECIFIED FOR A DRAINAGE LAYER, EXTEND DRAINAGE LAYER TO ASSOCIATED DRAIN LINES, DRAINAGE AREAS, OR DAYLIGHT.
17. WHERE ONE SOIL TYPE MEETS ANOTHER SOIL TYPE, FORM A 1:1 SLOPED BOUNDARY TRANSITION.
18. WHERE A SOIL PROFILE ENCROACHES WITHIN THE DRIP LINE OF EXISTING TREES, CONSULT WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCING EXCAVATION.
19. ALL EXCAVATION AND PLACEMENT OF SOILS WITHIN THE DRIP LINE OF EXISTING TREES TO BE PERFORMED BY HAND.
20. SCARIFY SUBGRADE AS SPECIFIED BEFORE PLACEMENT OF ANY PLANTING SOILS.
21. DO NOT PLACE OR HANDLE SOILS THAT ARE WET.
22. PROTECT ALL EXISTING SOILS AGAINST COMPACTION, CONTAMINATION WITH CONSTRUCTION MATERIALS, AND ALL DISTURBANCE.
23. CONTRACTOR IS RESPONSIBLE FOR ACTUAL SITE CONDITIONS, COORDINATION OF SOILS PLACEMENT, AND PLANTING SUBDRAINAGE.
24. DO NOT PLACE ANY PLANTING SOIL PRIOR TO INSPECTION BY LANDSCAPE ARCHITECT.

PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SOD
- SHADE SEED MEADOW (2 98)
- SUN SEED MEADOW (2 98)
- LIMIT OF WORK
- TRAIL FENCE (1 99)
- PICKET FENCE (5 99)

CONTINUED ON SHEET NO. 87

609204_HD (BORDER SHEET).DWG Plotted on ---- ----

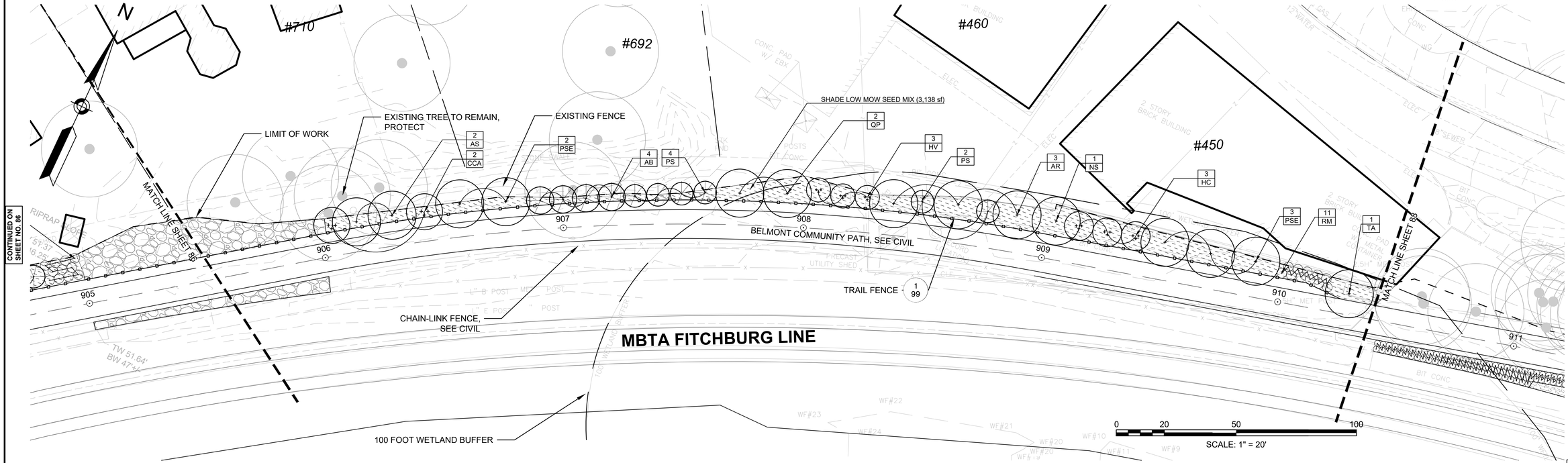
COPLEY WOLFF DESIGN GROUP

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	88	186
PROJECT FILE NO.	609204		

LANDSCAPE PLANS

609204_HD (BORDER SHEET).DWG Plotted on ---- ----



PLANTING SCHEDULE

SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS TREES						
AR	11	Acer rubrum	Red Maple	3"-3.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
AS	13	Acer saccharum	Sugar Maple	3"-3.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
COV	17	Carya ovata	Shagbark Hickory	3"-3.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
LS	11	Liquidambar styraciflua	American Sweetgum	3"-3.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
LT	13	Liriodendron tulipifera	Tulip Tree	3"-3.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
NS	12	Nyssa sylvatica	Blackgum	2"-2.5" cal.	AS SHOWN	Container, single stem, matched, straight central leader, full branches
PSE	13	Prunus serotina	Black Cherry	3"-3.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QP	12	Quercus palustris	Pin Oak	3"-3.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QR	17	Quercus rubra	Red Oak	3"-3.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
TA	12	Tilia americana	American Basswood	3"-3.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
UAV	9	Ulmus americana 'Valley Forge'	Valley Forge American Elm	3"-3.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
EVERGREEN TREES						
AB	36	Abies balsamea	Balsam Fir	8'-10' ht.	AS SHOWN	B&B, full to the ground, matched
JV	23	Juniperus virginiana	Eastern Redcedar	8'-10' ht.	AS SHOWN	B&B, full to the ground, matched
PG	35	Picea glauca	White Spruce	8'-10' ht.	AS SHOWN	B&B, full to the ground, matched
PS	32	Pinus strobus	Eastern White Pine	8'-10' ht.	AS SHOWN	B&B, full to the ground, matched
ORNAMENTAL TREES						
AGA	18	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	7'-8' ht.	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
CCA	22	Cercis canadensis	Eastern Redbud Multi-trunk	7'-8' ht.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches
CI	21	Crataegus crus-galli inermis	Thornless Cockspur Hawthorn	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
HC	18	Halesia carolina	Silverbell	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches
HV	21	Hamamelis virginiana	Common Witch Hazel	6'-7' ht.	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
SHRUBS						
IGS	361	Ilex glabra 'Shamrock'	Shamrock Inkberry Holly	#3 cont., 24" ht. min.	30" O.C.	full and rounded, staggered rows
RM	86	Rhododendron maximum	Rosebay Rhododendron	4` Ht.	AS SHOWN	B&B, full to the ground, matched
GROUND COVERS						
	8,913 sf	SHADE LOW MOW SEED MIX				
	36,214 sf	SUN LOW MOW SEED MIX				

PLANTING LEGEND

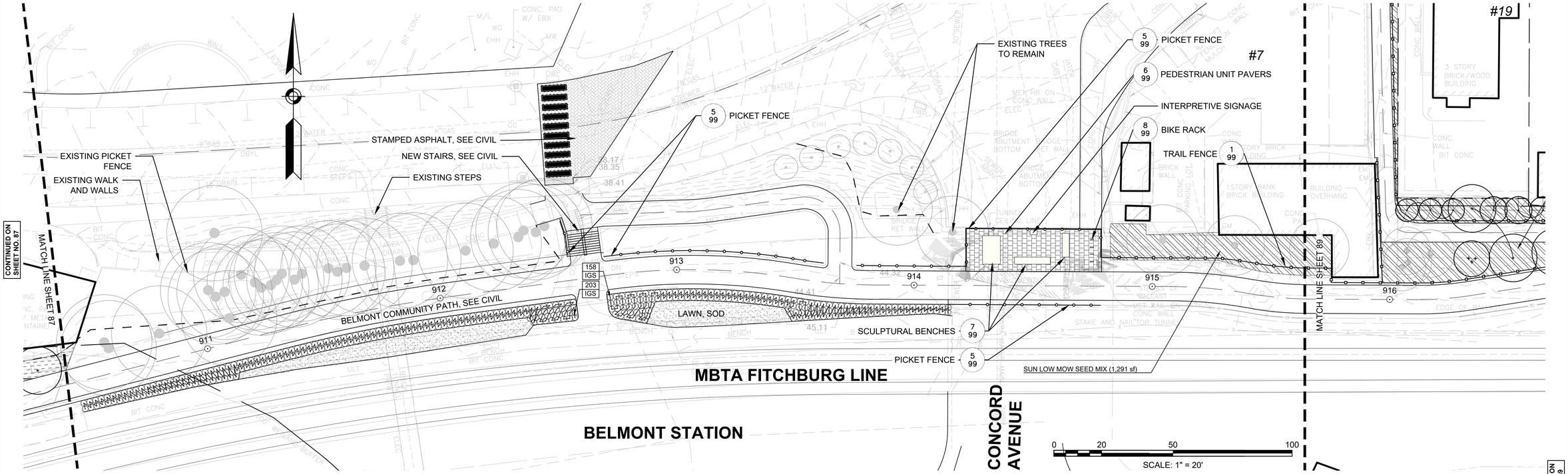
- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SOD
- SHADE SEED MEADOW (2 / 98)
- SUN SEED MEADOW (2 / 98)
- LIMIT OF WORK
- TRAIL FENCE (1 / 99)
- PICKET FENCE (5 / 99)

COPLEY WOLFF DESIGN GROUP

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	89	186
PROJECT FILE NO.	609204		

LANDSCAPE PLANS



PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SOD
- SHADE SEED MEADOW — 2 98
- SUN SEED MEADOW — 2 98
- LIMIT OF WORK
- TRAIL FENCE — 1 99
- PICKET FENCE — 5 99

COPLEY WOLFF DESIGN GROUP

609204 HD (RORDER SHEET).DWG Plotted on ---- ----

CHANNING ROAD

N

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.		SHEET NO.	TOTAL SHEETS
MA		---	90	186
PROJECT FILE NO.		609204		

LANDSCAPE PLAN

609204_HD (BORDER SHEET).DWG Plotted on ---- ----

#19 #23-25 #29 #31-33 #35 #39 #45-47 #49-51 #53 #57-59 #61-63

3 STORY BRICK/WOOD BUILDING

BUILDING OVERHANG

SUN LOW MOW SEED MIX (1,180 sf)

LOW MOW SEED MIX (4,362 sf)

EXISTING TREE TO REMAIN

RECORD ELECTRICAL CONDUITS SURVEY TO CONFIRM

LIMIT OF WORK

BELMONT COMMUNITY PATH, SEE CIVIL

CHAIN-LINK FENCE, SEE CIVIL

TRAIL FENCE 1/99

PRIVACY SCREEN 2/99 4/99

MATCH LINE - SHEET 88

MATCH LINE - SHEET 90

916 917 918 919 920 921 922

MBTA FITCHBURG LINE

0 20 50 100

SCALE: 1" = 20'

CONTINUED ON SHEET NO. 88

CONTINUED ON SHEET NO. 90

PLANTING LEGEND

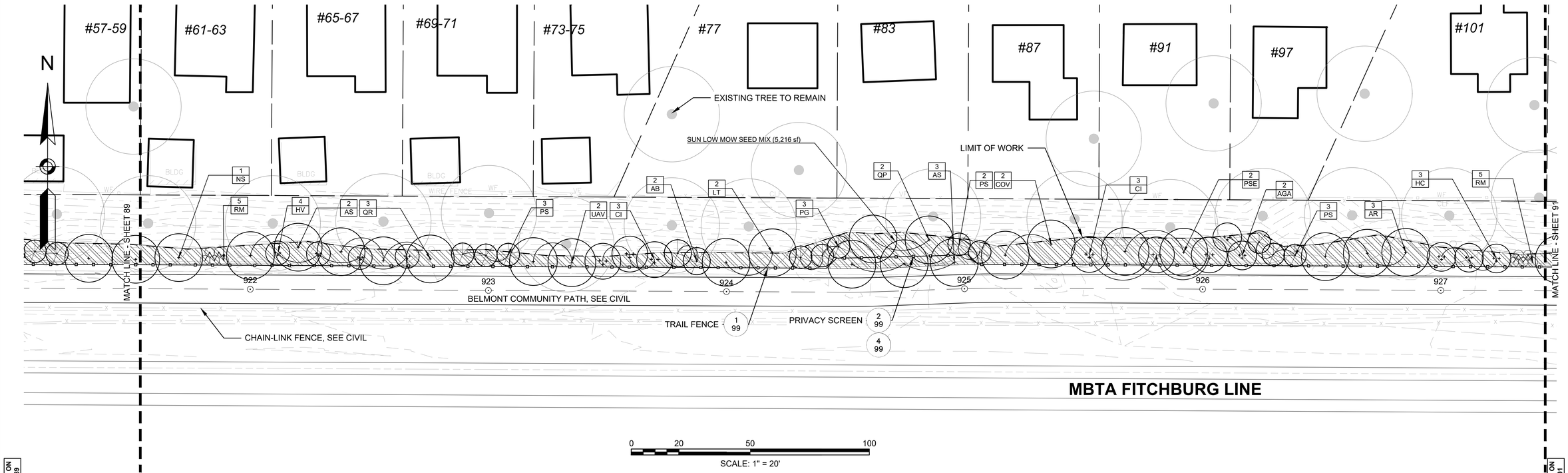
- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SOD
- SHADE SEED MEADOW 2/98
- SUN SEED MEADOW 2/98
- LIMIT OF WORK
- TRAIL FENCE 1/99
- PICKET FENCE 5/99

COPLEY WOLFF DESIGN GROUP

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	91	186
PROJECT FILE NO.	609204		

LANDSCAPE PLAN



CONTINUED ON SHEET NO. 89

CONTINUED ON SHEET NO. 91

PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SOD
- SHADE SEED MEADOW — 2 98
- SUN SEED MEADOW — 2 98
- LIMIT OF WORK
- TRAIL FENCE — 1 99
- PICKET FENCE — 5 99

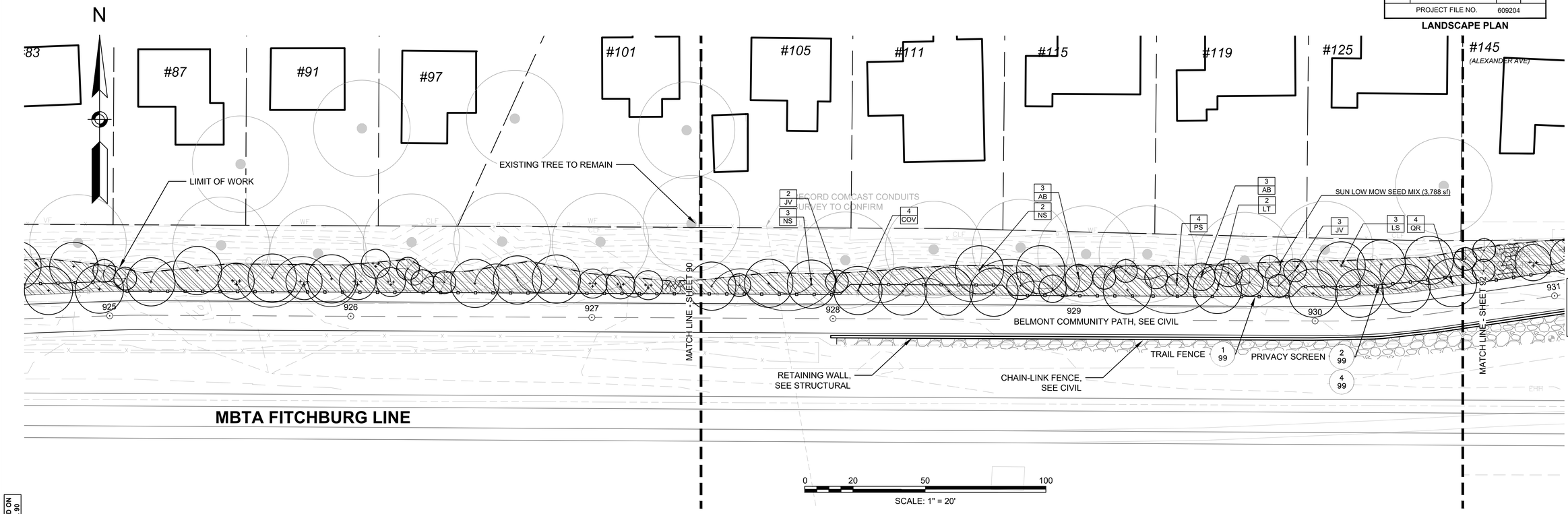
COPLEY WOLFF DESIGN GROUP

609204_HD (BORDER SHEET).DWG Plotted on ---- ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	92	186
PROJECT FILE NO.	609204		

LANDSCAPE PLAN



CONTINUED ON SHEET NO. 90

PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SOD
- SHADE SEED MEADOW (2 98)
- SUN SEED MEADOW (2 98)
- LIMIT OF WORK
- TRAIL FENCE (1 99)
- PICKET FENCE (5 99)

COPLEY WOLFF DESIGN GROUP

609204_HD (BORDER SHEET).DWG Plotted on ---- ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	93	186
PROJECT FILE NO.	609204		

LANDSCAPE PLAN

609204_HD (BORDER SHEET).DWG Plotted on ---- ----

N

CHANNING ROAD

#119 #125 #145 (ALEXANDER AVE) #159 (ALEXANDER AVE) #145 #153 #159

MATCH LINE - SHEET 91

CONTINUED ON SHEET NO. 91

MATCH LINE - SHEET 93

CONTINUED ON SHEET NO. 93

SUN LOW MOW SEED MIX (2,565 sf)

SUN LOW MOW SEED MIX (2,179 sf)

SUN LOW MOW SEED MIX (875 sf)

LIMIT OF WORK

STAMPED ASPHALT, SEE CIVIL

RETAINING WALL, SEE STRUCTURAL

BELMONT COMMUNITY PATH - SEE CIVIL

CHAIN-LINK FENCE AND RETAINING WALL, SEE CIVIL AND STRUCTURAL

CHAIN-LINK FENCE AND RETAINING WALL, SEE CIVIL AND STRUCTURAL

1 99 TRAIL FENCE

SHADE LOW MOW SEED MIX (398 sf)

SHADE LOW MOW SEED MIX (441 sf)

NEW ALEXANDER AVENUE UNDERPASS, SEE CIVIL

0 20 50 100

SCALE: 1" = 20'

PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SOD
- SHADE SEED MEADOW — 2 98
- SUN SEED MEADOW — 2 98
- LIMIT OF WORK
- TRAIL FENCE — 1 99
- PICKET FENCE — 5 99

BELMONT MIDDLE AND HIGH SCHOOL

COPLEY WOLFF DESIGN GROUP

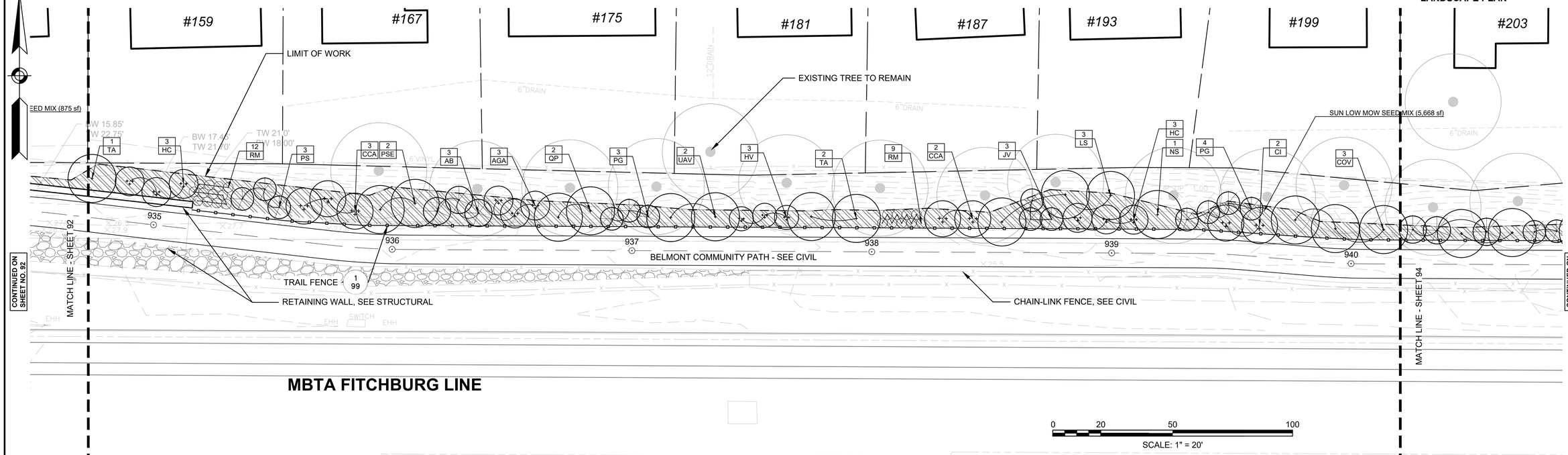
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	94	186
PROJECT FILE NO.	609204		

LANDSCAPE PLAN

609204_HD (BORDER SHEET).DWG Plotted on ---- ----

N



0 20 50 100

SCALE: 1" = 20'

PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SOD
- SHADE SEED MEADOW (2 98)
- SUN SEED MEADOW (2 98)
- LIMIT OF WORK
- TRAIL FENCE (1 99)
- PICKET FENCE (5 99)

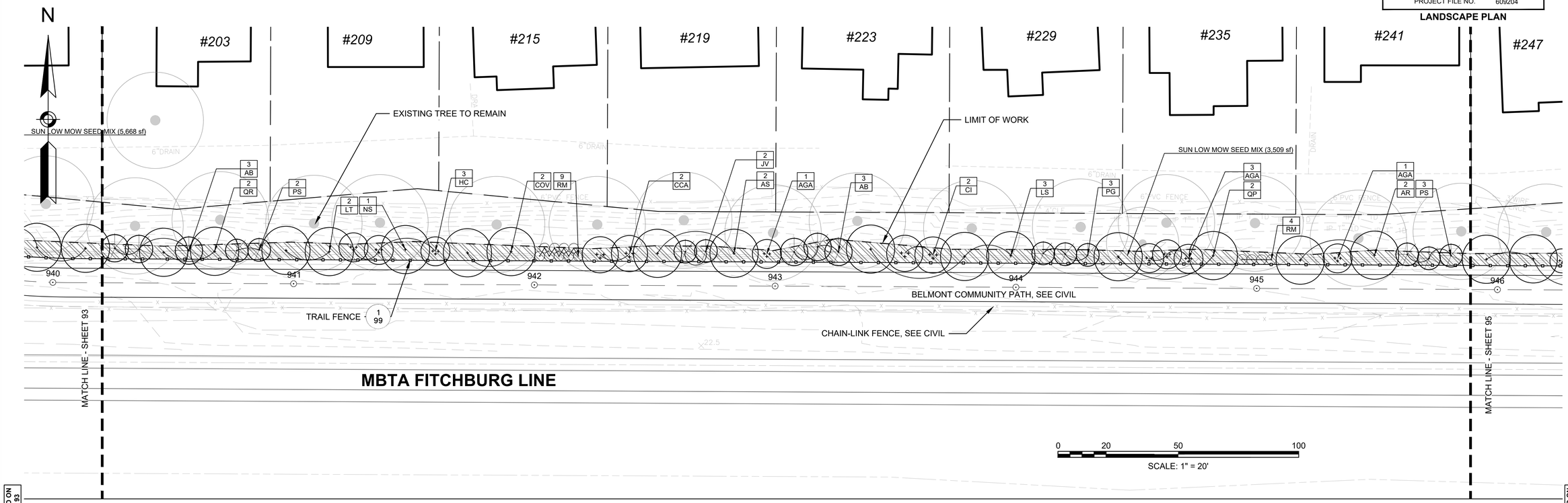
COPLEY WOLFF DESIGN GROUP

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	95	186
PROJECT FILE NO.	609204		

LANDSCAPE PLAN

609204_HD (BORDER SHEET).DWG Plotted on ---- ----



CONTINUED ON SHEET NO. 93

CONTINUED ON SHEET NO. 95

PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SOD
- SHADE SEED MEADOW — 2 / 98
- SUN SEED MEADOW — 2 / 98
- LIMIT OF WORK
- TRAIL FENCE — 1 / 99
- PICKET FENCE — 5 / 99

COPLEY WOLFF DESIGN GROUP

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	96	186
PROJECT FILE NO.	609204		

LANDSCAPE PLAN

609204_HD (BORDER SHEET).DWG Plotted on ---- ----

N

#241 #247 #253 #259 #265 #271 #277 #279 #285 #291

EXISTING TREE TO REMAIN

LIMIT OF WORK

SUN LOW MOW SEED MIX (3,509 sf)

3 TA
2 HV
1 PG
2 NS
2 JV
5 QR
2 AB
2 COV
2 CCA
2 PSE
5 RM
1 AGA
2 AB
2 LT
1 PS
2 CCA
2 COV
3 PG
1 TA

946 947 948 949 950 951

BELMONT COMMUNITY PATH, SEE CIVIL

TRAIL FENCE 1 99

PRIVACY SCREEN 2 99, 4 99

CHAIN-LINK FENCE, SEE CIVIL

MBTA FITCHBURG LINE

MATCH LINE - SHEET 94

MATCH LINE - SHEET 96

0 20 50 100

SCALE: 1" = 20'

CONTINUED ON SHEET NO. 94

CONTINUED ON SHEET NO. 96

PLANTING LEGEND

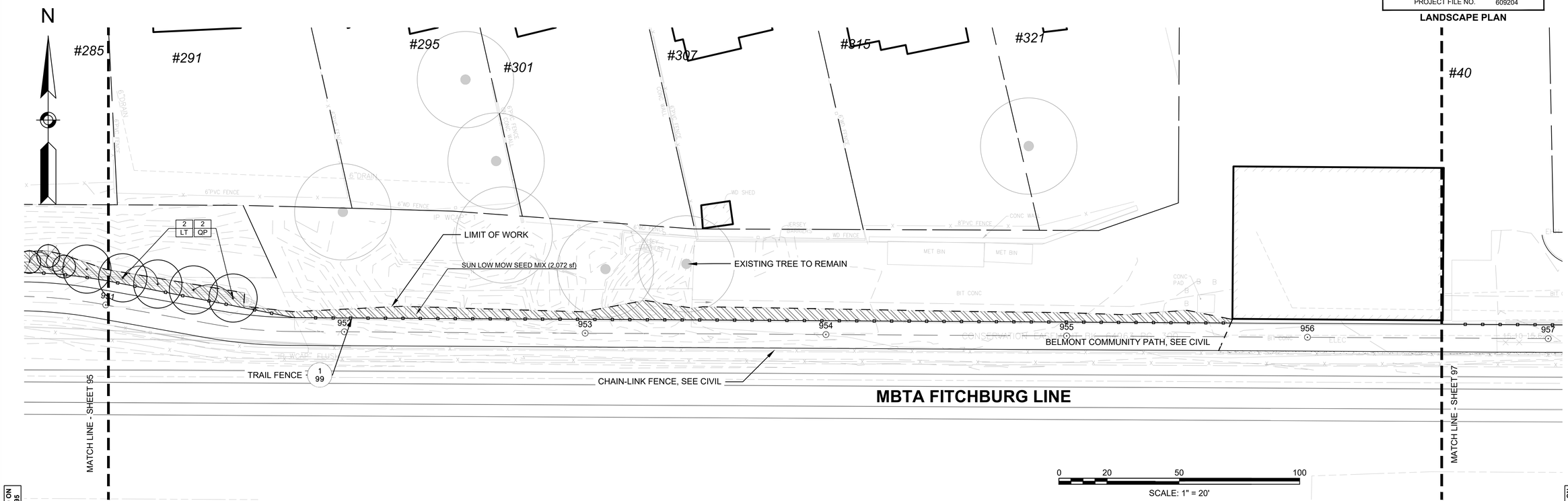
- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SOD
- SHADE SEED MEADOW — 2 98
- SUN SEED MEADOW — 2 98
- LIMIT OF WORK
- TRAIL FENCE — 1 99
- PICKET FENCE — 5 99

COPLEY WOLFF DESIGN GROUP

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	97	186
PROJECT FILE NO.	609204		

LANDSCAPE PLAN



CONTINUED ON SHEET NO. 95

CONTINUED ON SHEET NO. 97

PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SOD
- SHADE SEED MEADOW — 2 / 98
- SUN SEED MEADOW — 2 / 98
- LIMIT OF WORK
- TRAIL FENCE — 1 / 99
- PICKET FENCE — 5 / 99

609204_HD (BORDER SHEET).DWG Plotted on ---- ----

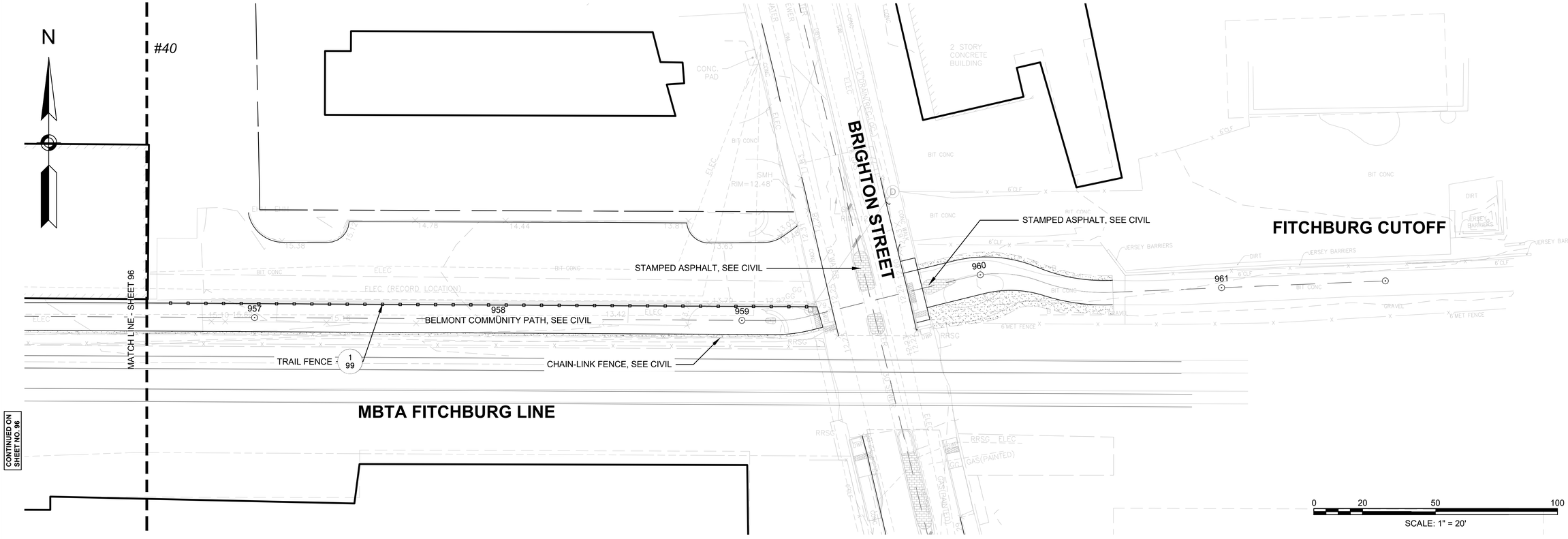
COPLEY WOLFF DESIGN GROUP

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	98	186
PROJECT FILE NO.	609204		

LANDSCAPE PLAN

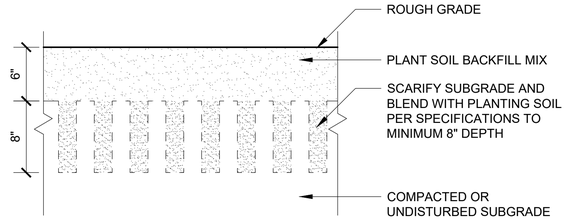
609204_HD (BORDER SHEET).DWG Plotted on ---- ----



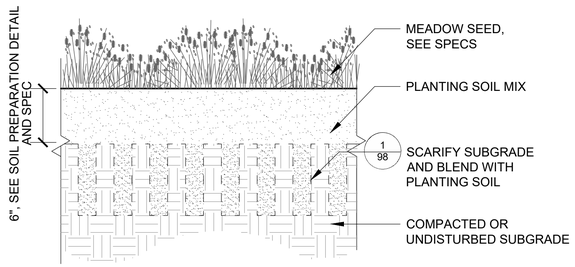
PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SOD
- SHADE SEED MEADOW — 2 / 98
- SUN SEED MEADOW — 2 / 98
- LIMIT OF WORK
- TRAIL FENCE — 1 / 99
- PICKET FENCE — 5 / 99

COPLEY WOLFF DESIGN GROUP

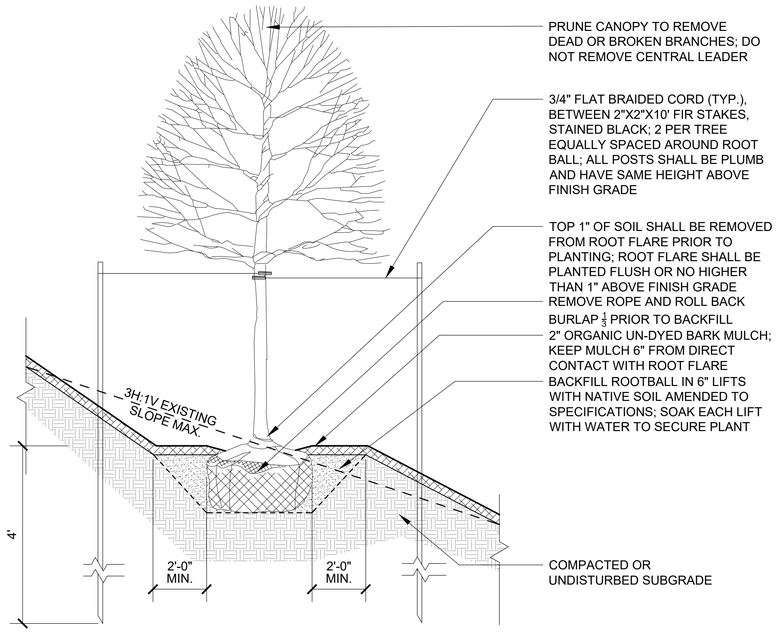


1 SOIL PREPARATION
1 1/2" = 1'–0"



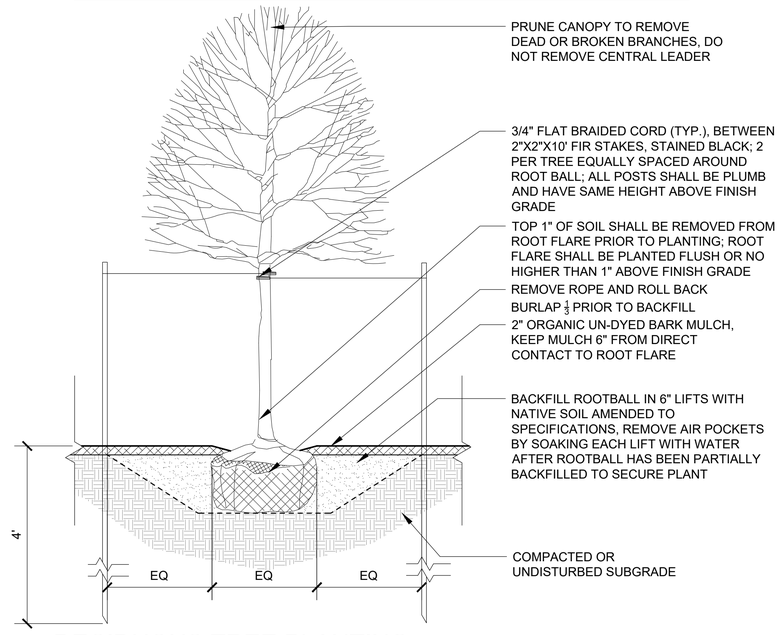
2 MEADOW PLANTING
1 1/2" = 1'–0"

NOTES:
1. PLANTING SOIL SHALL BE FLOODED TWICE DURING THE FIRST 24 HOURS AFTER PLANTING.
2. TREE SHALL BE SET PLUMB.
3. CONTRACTOR SHALL PREPARE PLANTING MOCKUP OF TREE PLANTING FOR LANDSCAPE ARCHITECT TO REVIEW AND APPROVE.
4. CONTRACTOR SHALL REMOVE A MINIMUM OF 2/3 OF METAL CAGE FROM ROOT BALL.



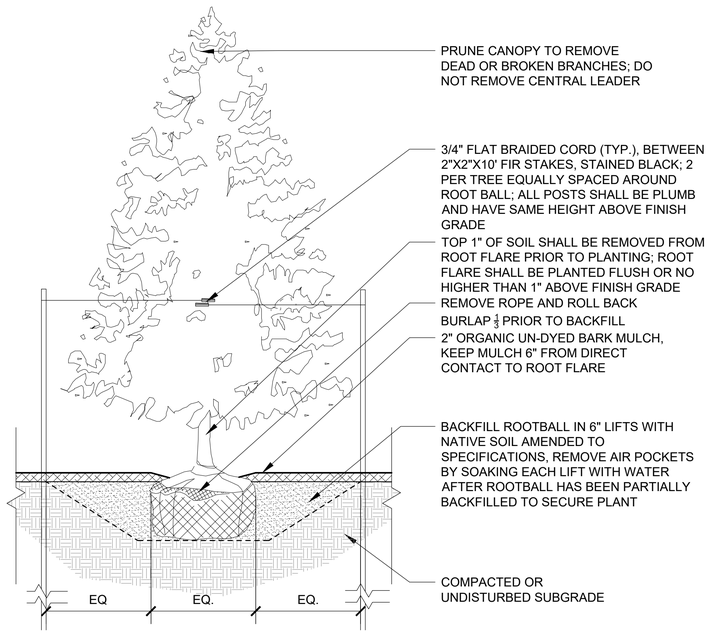
3 TREE PLANTING ON A SLOPE
3/4" = 1'–0"

NOTES:
1. PLANTING SOIL SHALL BE FLOODED TWICE DURING THE FIRST 24 HOURS AFTER PLANTING.
2. TREE SHALL BE SET PLUMB.
3. CONTRACTOR SHALL PREPARE PLANTING MOCKUP OF TREE PLANTING FOR LANDSCAPE ARCHITECT TO REVIEW AND APPROVE.
4. CONTRACTOR SHALL REMOVE A MINIMUM OF 2/3 OF METAL CAGE FROM ROOT BALL.

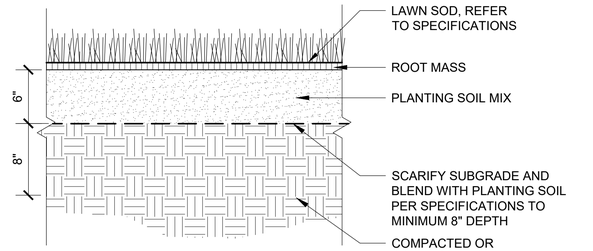


4 DECIDUOUS TREE PLANTING
3/4" = 1'–0"

NOTES:
1. PLANTING SOIL SHALL BE FLOODED TWICE DURING THE FIRST 24 HOURS AFTER PLANTING.
2. TREE SHALL BE SET PLUMB.
3. CONTRACTOR SHALL PREPARE PLANTING MOCKUP OF TREE PLANTING FOR LANDSCAPE ARCHITECT TO REVIEW AND APPROVE.
4. CONTRACTOR SHALL REMOVE A MINIMUM OF 2/3 OF METAL CAGE FROM ROOT BALL.



5 EVERGREEN TREE PLANTING
3/4" = 1'–0"



6 SOD LAWN
1 1/2" = 1'–0"

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	99	186
PROJECT FILE NO.	609204		

LANDSCAPE DETAILS

609204_HD (BORDER SHEET).DWG Plotted on ---- ----

COPLEY WOLFF DESIGN GROUP

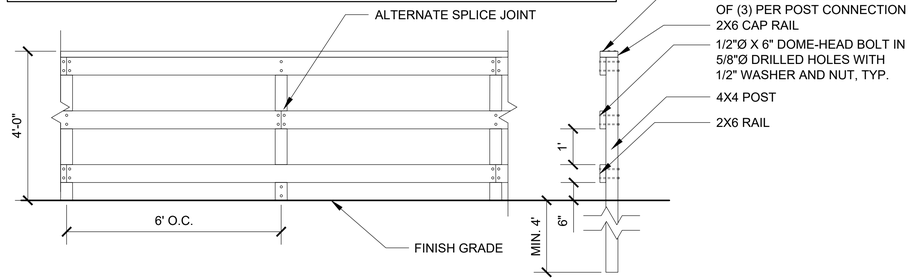
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	100	186
PROJECT FILE NO.	609204		

LANDSCAPE DETAILS

609204_HD (BORDER SHEET).DWG Plotted on ---- ----

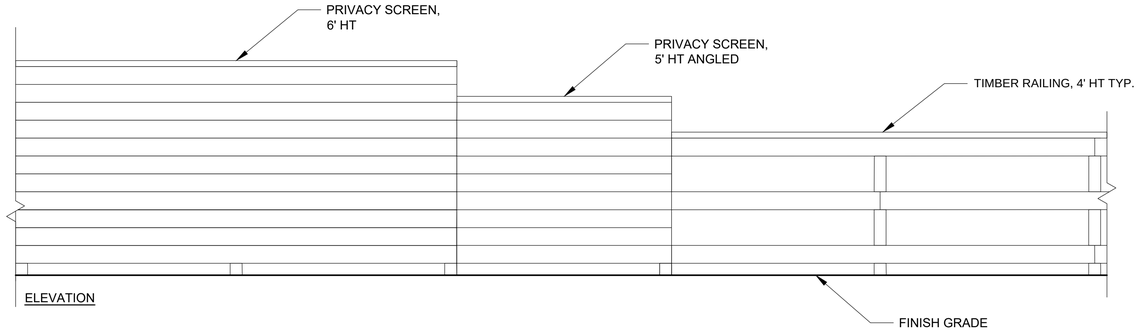
NOTE:
1. ALL WOOD TO BE YELLOW CEDAR.
2. ALL HARDWARE TO BE GALVANIZED
3. MAINTAIN MINIMUM EDGE DISTANCE OF 1" ON ALL DRILLED HOLES
4. SAND AND PREP TOP, BOTTOM, AND INSIDE FACE OF ALL RAIL
5. IF A RAIL TIMBER IS CONTINUOUS OVER A POST ONLY 2 BOLTS ARE REQUIRED TO ATTACH RAIL TO POST. BOLTS INSTALLED ON CONTINUOUS RAILS SHALL BE CENTERED ON POST.
6. SHOP DRAWINGS REQUIRED PRIOR TO INSTALLATION



ELEVATION SECTION

1 TIMBER RAILING
1/2" = 1'–0"

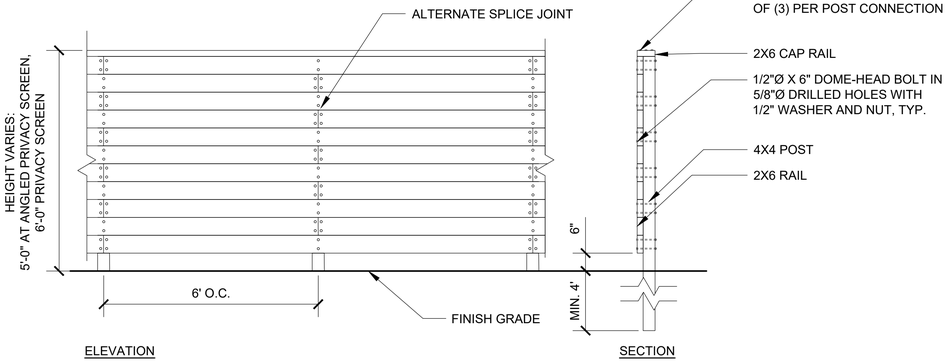
NOTE:
1. SEE LANDSCAPE PLAN FOR LOCATIONS OF PRIVACY SCREEN.
2. PRIVACY SCREEN HEIGHTS ARE BASED OFF ELEVATION ABOVE COMMUNITY TRAIL, FINAL FENCE HEIGHT VARIES DEPENDING ON ELEVATION AT FOOTINGS.



ELEVATION

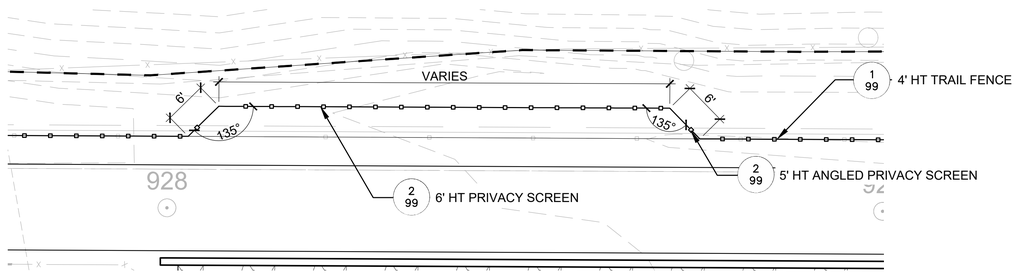
4 PRIVACY SCREEN TO TIMBER RAILING TRANSITION
1/2" = 1'–0"

NOTE:
1. ALL WOOD TO BE YELLOW CEDAR.
2. ALL HARDWARE TO BE GALVANIZED
3. MAINTAIN MINIMUM EDGE DISTANCE OF 1" ON ALL DRILLED HOLES
4. SAND AND PREP TOP, BOTTOM, AND INSIDE FACE OF ALL RAIL
5. IF A RAIL TIMBER IS CONTINUOUS OVER A POST ONLY 2 BOLTS ARE REQUIRED TO ATTACH RAIL TO POST. BOLTS INSTALLED ON CONTINUOUS RAILS SHALL BE CENTERED ON POST.
6. SHOP DRAWINGS REQUIRED PRIOR TO INSTALLATION



ELEVATION SECTION

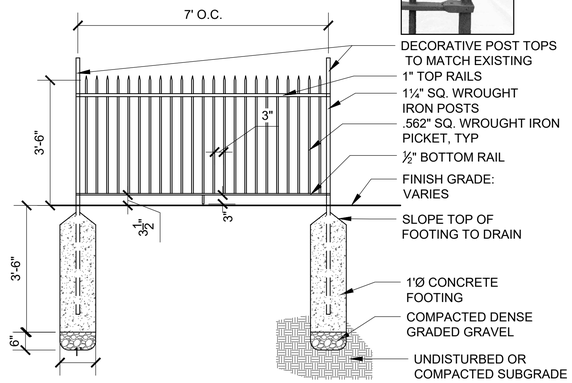
2 PRIVACY SCREEN
1/2" = 1'–0"



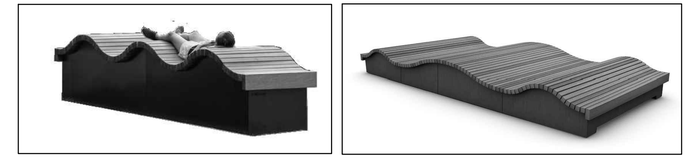
3 PRIVACY SCREEN LAYOUT
1" = 10'–0"

NOTES:
1. SHOP DRAWINGS REQUIRED.
2. SEE SPECS FOR FENCE PRODUCT INFORMATION.

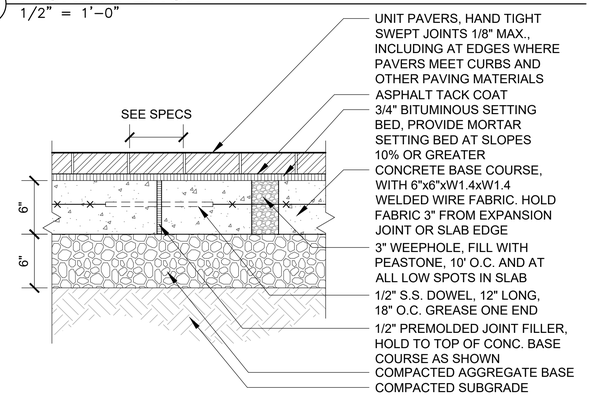




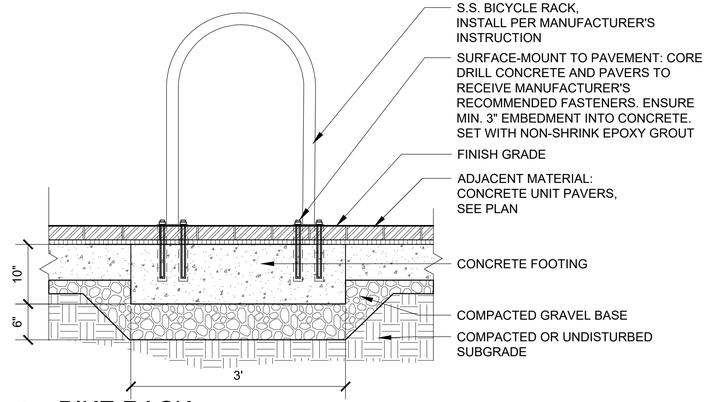
5 PICKET FENCE
1/2" = 1'–0"



7 SCULPTURAL BENCH
1/2" = 1'–0"



6 PEDESTRIAN UNIT PAVERS
1 1/2" = 1'–0"



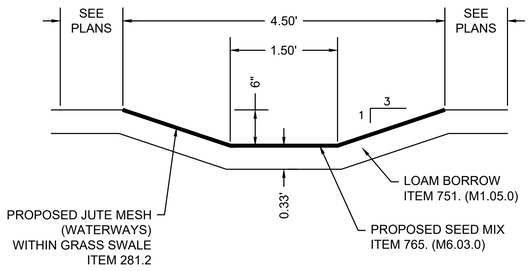
8 BIKE RACK
1" = 1'–0"

COPLEY WOLFF DESIGN GROUP

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	101	186
PROJECT FILE NO.	609204		

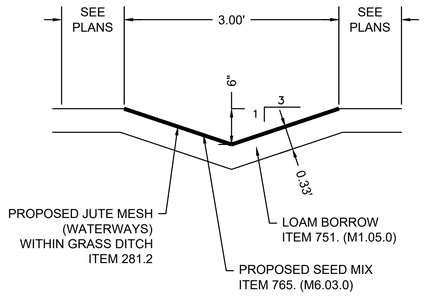
CONSTRUCTION DETAILS



NOTES:

1. JUTE MESH (WATERWAYS) SHALL BE INSTALLED IMMEDIATELY AFTER PLACEMENT OF LOAM AND SEED.
2. EXCAVATION AND GRADING OF THE SWALE SHALL BE MEASURED AND PAID FOR UNDER UNCLASSIFIED EXCAVATION, ITEM 120.1

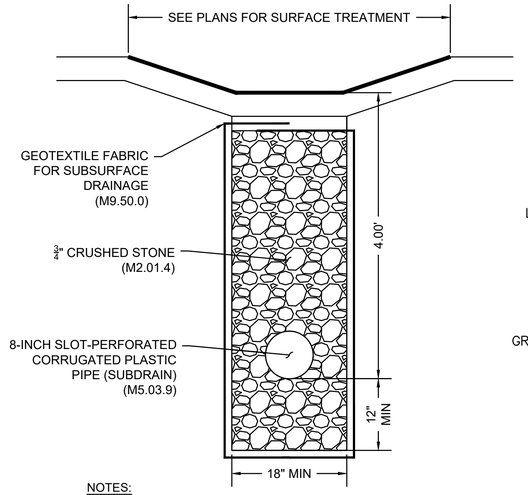
GRASS SWALE
NOT TO SCALE



NOTES:

1. JUTE MESH (WATERWAYS) SHALL BE INSTALLED IMMEDIATELY AFTER PLACEMENT OF LOAM AND SEED.
2. EXCAVATION AND GRADING OF THE DITCH SHALL BE MEASURED AND PAID FOR UNDER UNCLASSIFIED EXCAVATION, ITEM 120.1

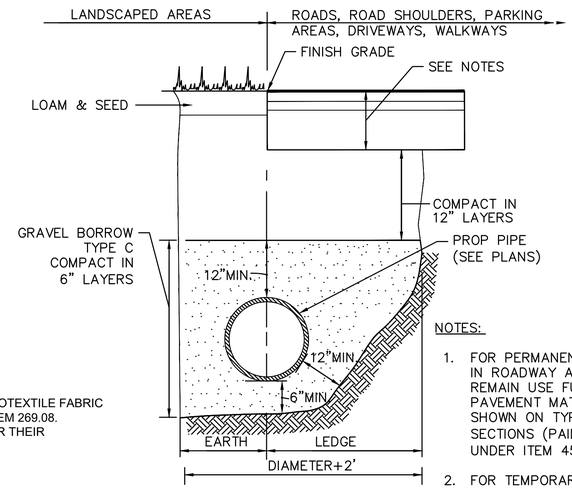
GRASS DITCH
NOT TO SCALE



NOTES:

1. EXCAVATION, GRADING, CRUSHED STONE, PERFORATED PIPE, GEOTEXTILE FABRIC SHALL BE INCLUDED FOR MEASUREMENTS AND PAYMENT UNDER ITEM 269.08.
2. SURFACE TREATMENT SHALL BE MEASURED AND PAID FOR UNDER THEIR RESPECTIVE BID ITEMS.

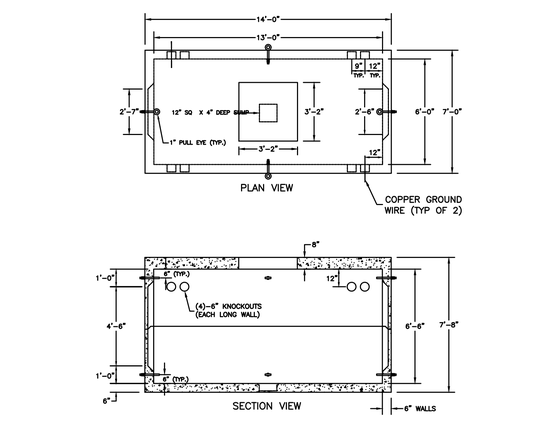
8-INCH SUB-DRAIN
NOT TO SCALE



NOTES:

1. FOR PERMANENT PATCH IN ROADWAY AREAS TO REMAIN USE FULL DEPTH PAVEMENT MATERIALS SHOWN ON TYPICAL SECTIONS (PAID FOR UNDER ITEM 451)
2. FOR TEMPORARY PATCH USE 3 INCHES HMA BINDER MIX (PAID FOR UNDER ITEM 472)

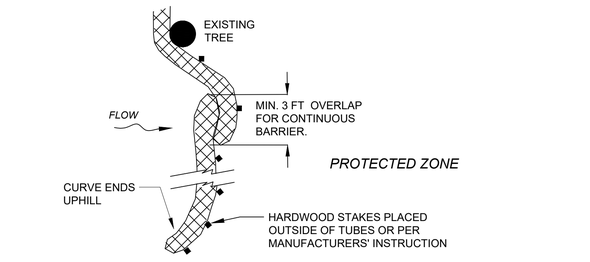
STANDARD TRENCH DETAIL



NOTES:

1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
2. STEEL REINFORCEMENT: ASTM-A615, GRADE 60, 1" MIN. COVER.
3. DESIGNED FOR HS20-44 LOADING.

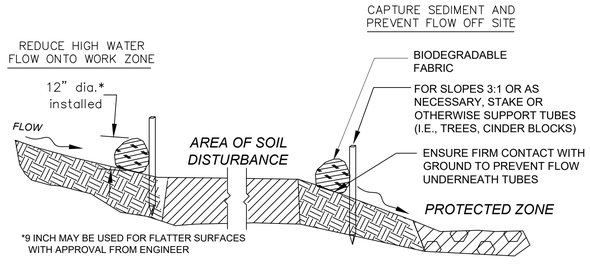
ELECTRIC MANHOLE 6'X13'
NOT TO SCALE



PLACE TUBE AS CLOSE TO LIMIT OF SOIL DISTURBANCE AS POSSIBLE, ALONG CONTOURS, AND PERPENDICULAR TO FLOW.

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

PLAN VIEW

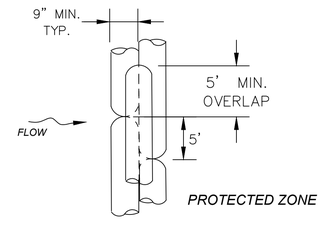


*9 INCH MAY BE USED FOR FLATTER SURFACES WITH APPROVAL FROM ENGINEER

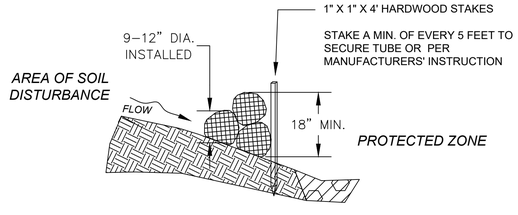
SECTION

SEDIMENT BARRIER - COMPOST FILTER TUBE
NOT TO SCALE

WHERE SPECIFIED ON CONSTRUCTION PLANS OR AS REQUIRED

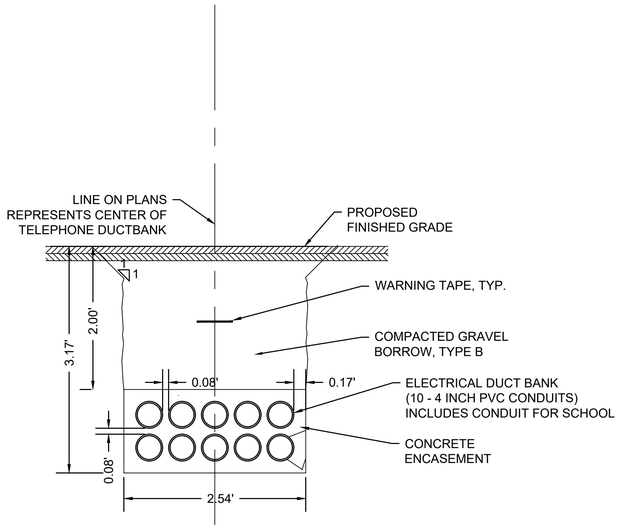


PLAN VIEW



SECTION

COMPOST FILTER TUBES STACKED
NOT TO SCALE



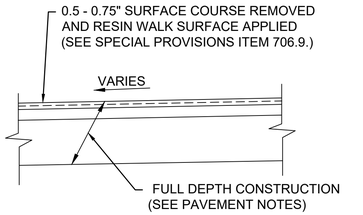
ELECTRIC TRENCH
10 DUCT

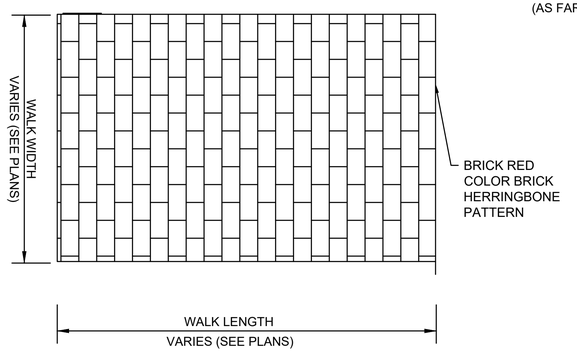
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609204_HD(DET).DWG Plotted on Feb-25 1:15 PM

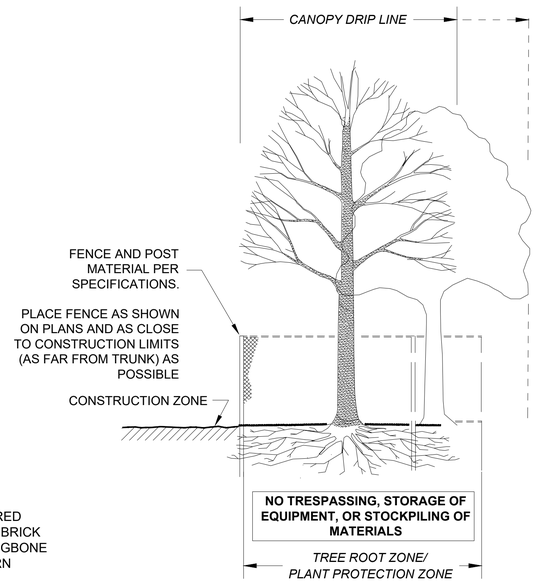
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	102	186
PROJECT FILE NO.	609204		

CONSTRUCTION DETAILS

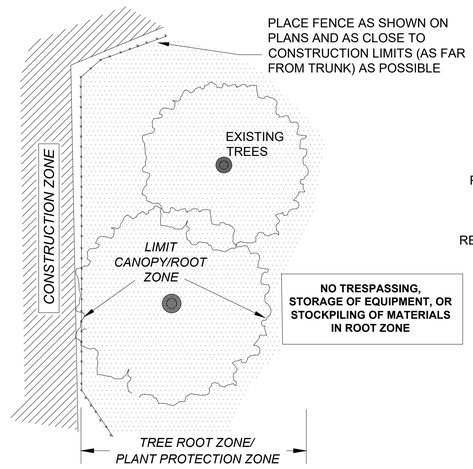




DECORATIVE RESIN WALK
NOT TO SCALE



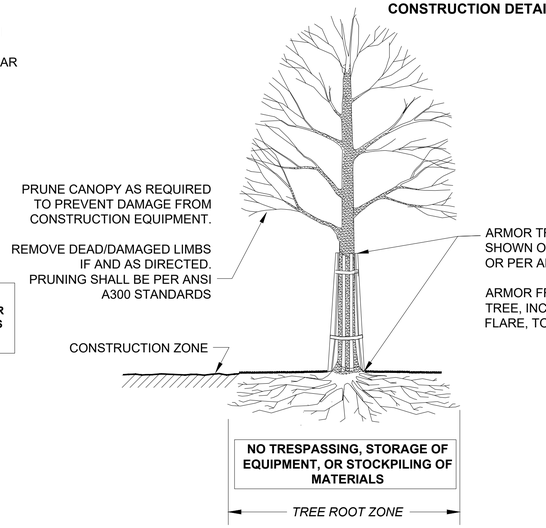
SECTION - FENCE PROTECTION OF ROOT ZONE



PLAN VIEW - FENCE PROTECTION OF ROOT ZONE

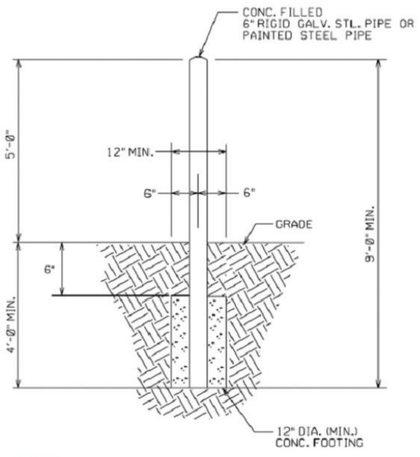
TREE PROTECTION - ROOT ZONE

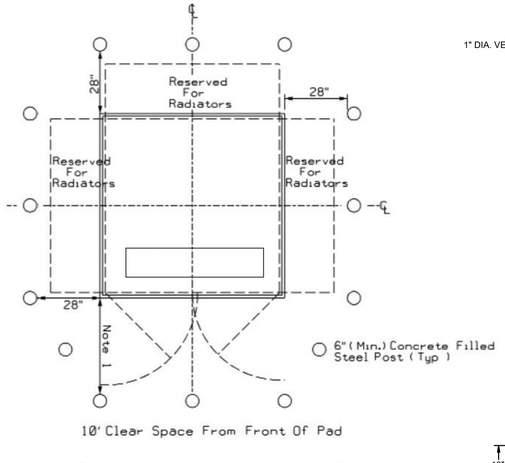
NOT TO SCALE



SECTION - TRUNK ARMORING & PRUNING

TREE PROTECTION - TRUNK

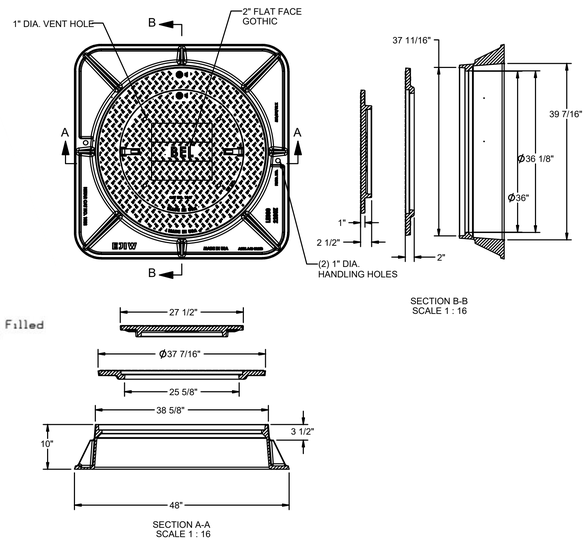




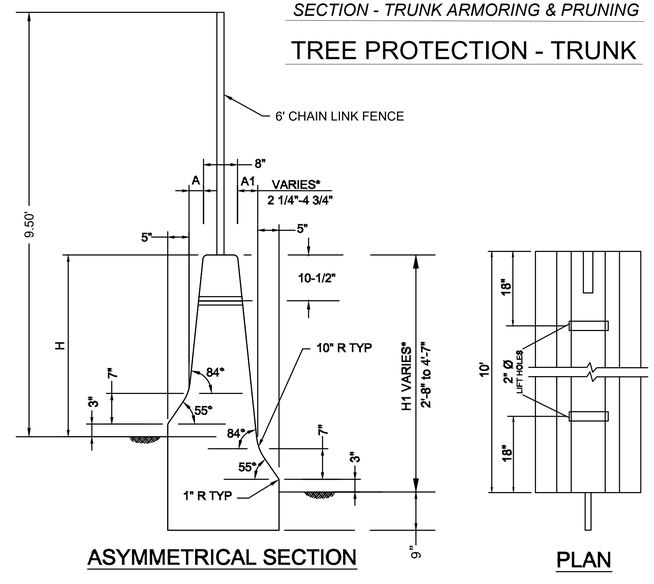
NOTES:
1) Five foot minimum clearance from front of pad
2) Belmont Light engineering shall designate the number and location bollards by marking the above drawing
3) For installations around oil containment curbs, install bollards six feet minimum on all applicable sides.

Bollards Required	●
Bollards Not Required	Ⓧ

STEEL BOLLARD
NOT TO SCALE



ELECTRIC MANHOLE COVER AND FRAME
NOT TO SCALE



ASYMMETRICAL SECTION

PLAN

SYSTEM	A	H
TALL	3 1/4"	3'-6"

NOTES:

1. ALL EDGES SHALL BE ROUNDED WITH A 1" RADIUS EXCEPT AS SHOWN
2. FOR DOWEL CONNECTION DETAILS SEE E 402.13.0.
3. FOR REINFORCING SEE E 402.11.0 FOR SYMMETRICAL SHAPE AND E 401.12.0 FOR ASYMMETRICAL SHAPE.
4. ALL CONCRETE IS TO BE FIELD COATED AFTER FINAL INSTALLATION WITH A CONCRETE PENETRANT/SEALER. CAST IN PLACE CONCRETE SHALL CURE NOT LESS THAN 28 DAYS PRIOR TO COATING.
5. LIFT HOLES USED ONLY ON PRECAST BARRIERS 13' AND LESS.

* VARY "A1" RELATIVE TO "H1" WHILE MAINTAINING 55° AND 84° BARRIER ANGLES. A1=4-3/4" MAX., H1=4'-7" MAX.

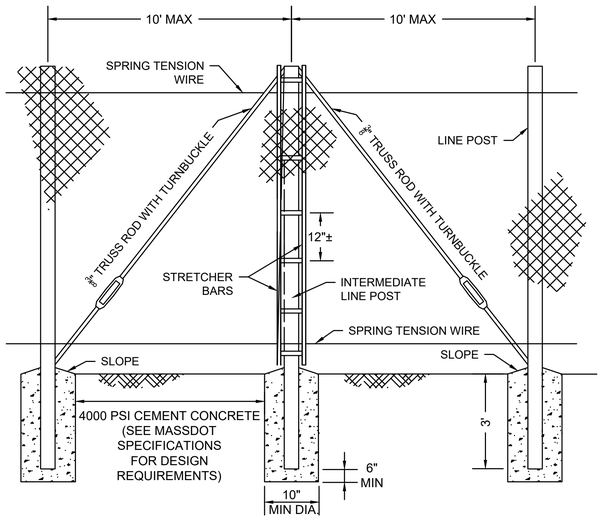
CHAIN LINK FENCE MOUNTED ON F SHAPE CONCRETE BARRIER
NOT TO SCALE

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(DET).dwg 2/7/2025 1:15 PM
609204_HD(DET).DWG Plotted on Feb-25 1:15 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	103	186
PROJECT FILE NO.	609204		

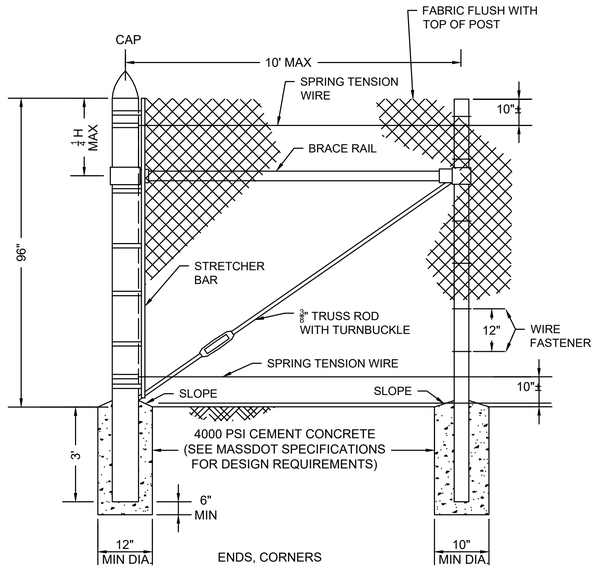
CONSTRUCTION DETAILS



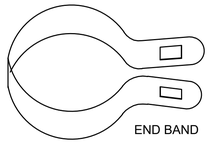
INTERMEDIATE POST

NOTES:

1. FABRIC FOR FENCES 4' OR LESS IN HEIGHT: TOP SELVAGE TO HAVE KNUCKLED FINISH. BOTTOM SELVAGE TO HAVE TWISTED AND BARBED FINISH UNLESS OTHERWISE NOTED.
   FABRIC FOR FENCES 5' OR OVER IN HEIGHT: BOTH TOP AND BOTTOM SELVAGE TO HAVE TWISTED AND BARBED FINISH UNLESS OTHERWISE NOTED.
2. GRADE OF FENCE TO BE PARALLEL WITH THE GRADE OF SIDEWALKS, CURBING, GROUND OR TOP OF WALL.
3. INTERMEDIATE POST INTERVALS NOT TO EXCEED 500 FEET.
4. SPACING OF LINE POST ON CURVES, SEE DRAWINGS E 404.1.0
5. FOR DESCRIPTION, MATERIALS AND CONSTRUCTION METHODS, SEE STANDARD SPECIFICATIONS.
6. SPRING TENSION WIRE TO BE FASTENED TO FABRIC WITH 11 GAUAGE HOG RINGS AT 1' INTERVALS.
7. SPRING TENSION WIRE TO BE FASTENED TO LINE POSTS WITH CLIPS.
8. LINE POSTS TO BE DRIVEN EXCEPT WHERE NOTED ABOVE.

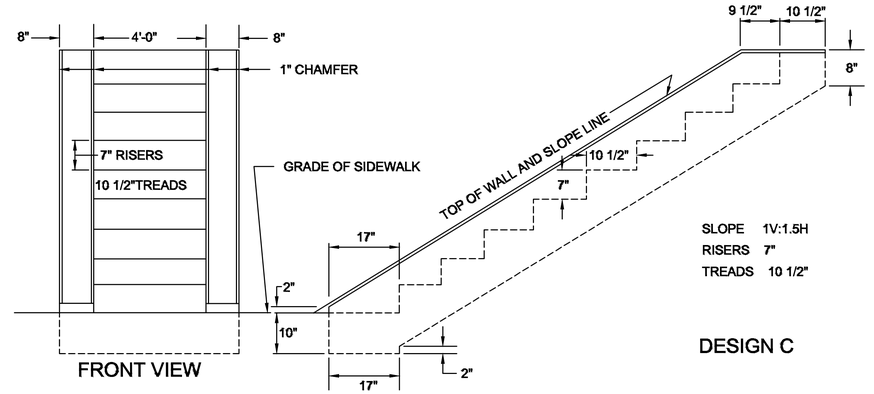


ENDS, CORNERS



END BAND

SPRING TENSION WIRE
MINIMUM OF (5) TURNS AROUND THE SPRING TENSION WIRE TO END INSTLLATION.
ALL BANDS SHALL BE ROUND ON ROUND POSTS.



FRONT VIEW

SLOPE 1V:1.5H
RISERS 7"
TREADS 10 1/2"

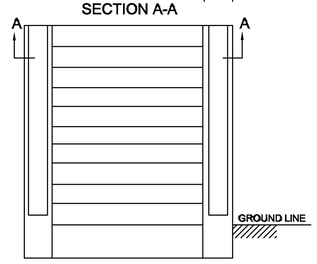
DESIGN C

NOTES:
1. ALL CONCRETE DIMENSIONS SHOWN ARE MINIMUM EXCEPT RISERS AND TREADS WHICH HAVE 1/4" TOLERANCE.
2. FOR REINFORCING STEEL AND CONCRETE QUANTITIES SEE DRAWING E 304.2.0

CHAIN LINK FENCE (SPRING TENSION WIRE)

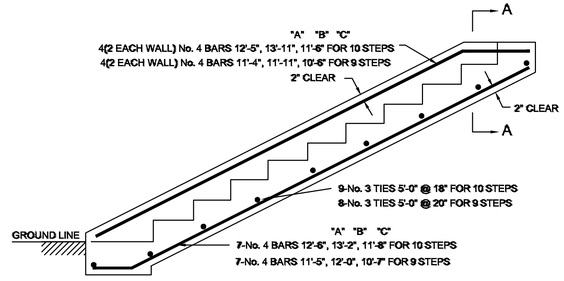
NOT TO SCALE

SECTION A-A



FRONT VIEW

NOTES:
1. FOR DESCRIPTIONS , MATERIALS AND CONSTRUCTION METHODS SEE STANDARD SPECIFICATIONS.
2. PAYMENT WILL BE BASED ON THE QUANTITIES SHOWN IN THE ACCOMPANYING TABLES.
3. RAILING AS REQUIRED BY AAB AND STATE BUILDING CODE



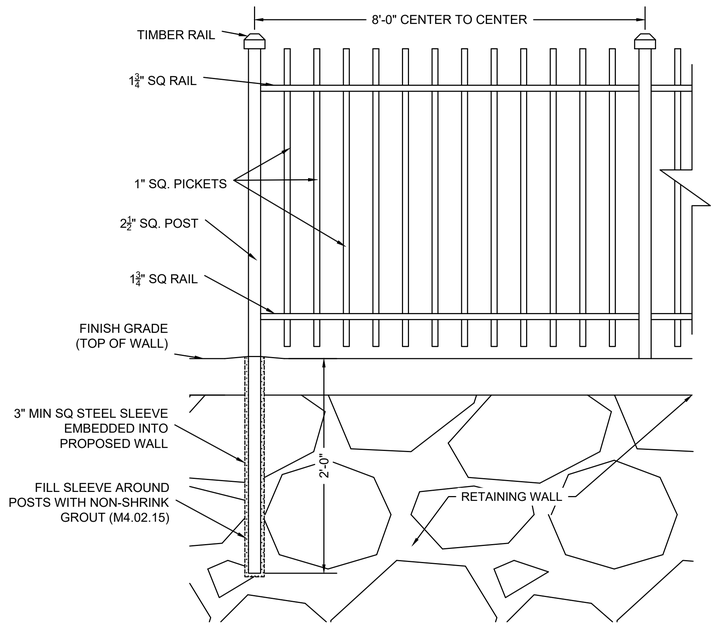
SIDE VIEW

	DESIGN C					
STEP NOS.	QUANTITIES - C.U. FT				TOTAL C.Y.	REINF. STEEL LBS
	BASE	STEPS	2-WALLS	TOTAL		
10	4.72	33.54	22.00	60.25	2.23	102
11	4.72	36.89	24.04	65.65	2.43	112
12	4.72	40.24	26.08	71.04	2.63	122

ALL CONCRETE SHALL BE 4,000 PSI (SEE MASSDOT SPECIFICATIONS FOR DESIGN REQUIREMENTS)

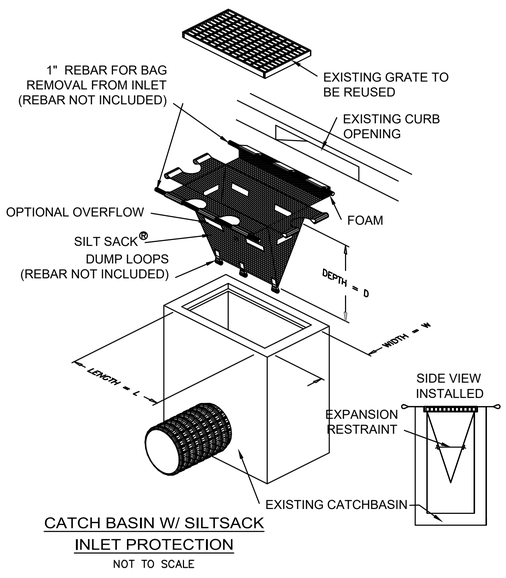
CEMENT CONCRETE STEPS - E304.2.0 DESIGN C

NOT TO SCALE



FENCE MOUNTED ON RETAINING WALL DETAIL

NOT TO SCALE



CATCH BASIN W/ SILTSACK INLET PROTECTION

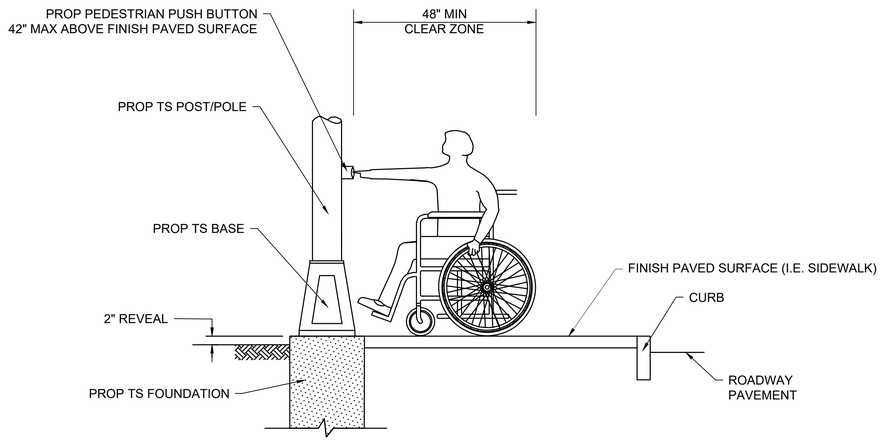
NOT TO SCALE

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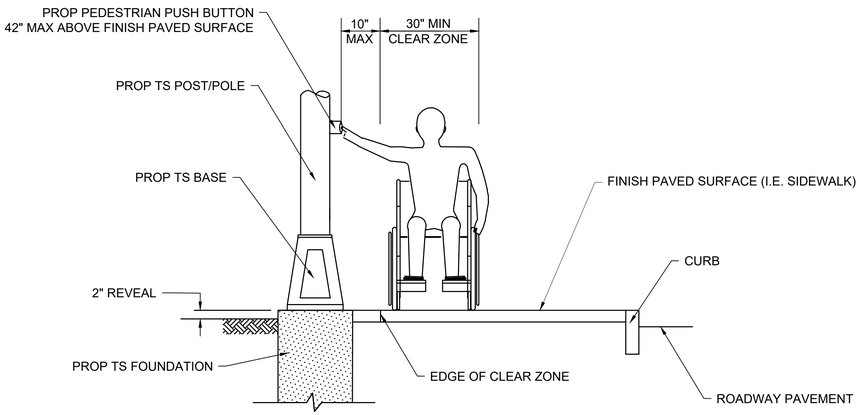
609204_HD(DET).DWG Plotted on Feb-25 1:15 PM

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	104	186
PROJECT FILE NO.	609204		

CONSTRUCTION DETAILS



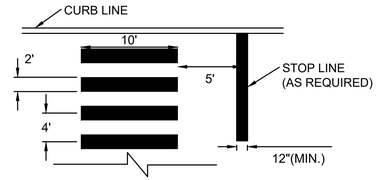
FORWARD APPROACH (SIDE REACH)
NOT TO SCALE



PARALLELL APPROACH (SIDE REACH)

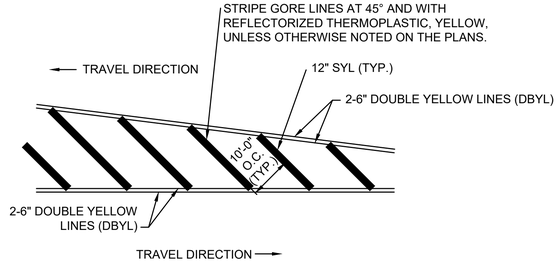
NOTES:
1. A CLEAR GROUND SPACE SHALL CONSIST OF A STABLE AND FIRM AREA, COMPLYING WITH 521 WMR 6.5 (FORWARD REACH) OR 521 CMR 6.6 (SIDE REACH) AND SHALL BE PROVIDED AT EACH OF THE PEDESTRIAN PUSH BUTTONS.
   1.1. WHERE A FORWARD APPROACH IS PROVIDED, PEDESTRIAN PUSH BUTTONS SHALL BE WITHIN TEN INCHES (10") HORIZONTALLY OF AND CENTERED ON THE CLEAR GROUND SPACE.
   1.2. WHERE A PARALLEL APPROACH IS PROVIDED, PEDESTRIAN PUSH BUTTONS SHALL BE WITHIN TEN INCHES (10") HORIZONTALLY OF AND CENTERED ON THE CLEAR GROUND SPACE.

PEDESTRIAN PUSH BUTTON CLEAR ZONE
NOT TO SCALE

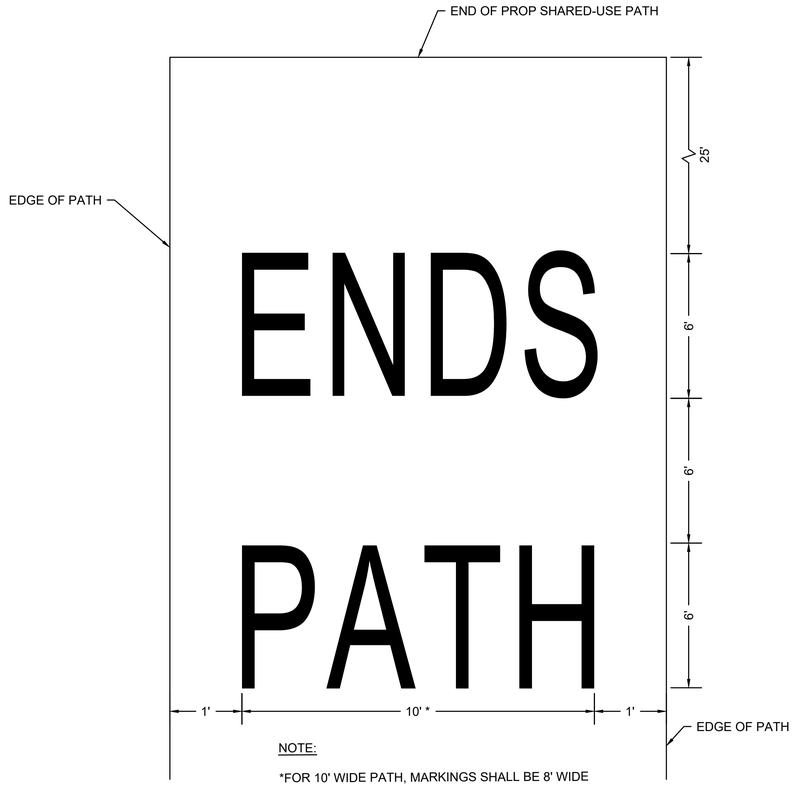


NOTES:
1. ALL PROPOSED STOP LINES AND CROSSWALKS SHALL BE REFLECTORIZED THERMOPLASTIC.

CROSSWALK & STOP LINE
NOT TO SCALE



TYPICAL GORE MARKINGS
NOT TO SCALE



NOTE:
*FOR 10' WIDE PATH, MARKINGS SHALL BE 8' WIDE

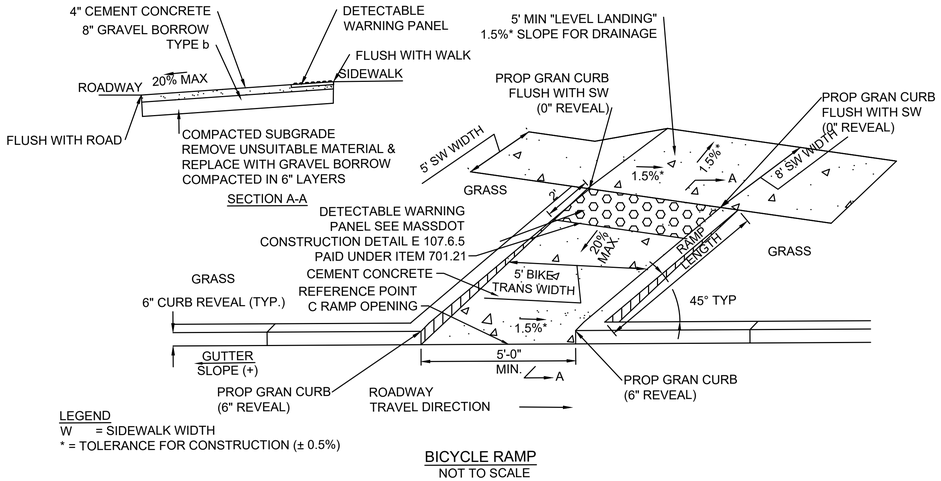
"PATH ENDS" MARKING DETAIL
NOT TO SCALE

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609204_HD(DET).DWG Plotted on Feb-25 1:15 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

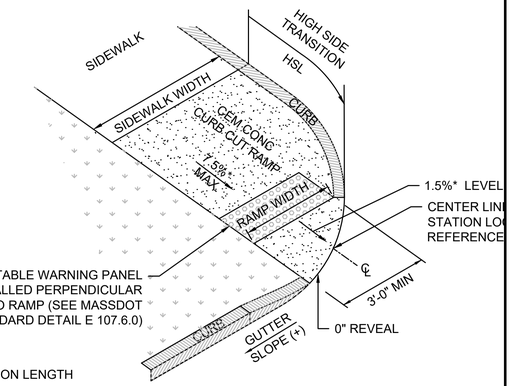
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	105	186
PROJECT FILE NO.		609204	

CONSTRUCTION DETAILS

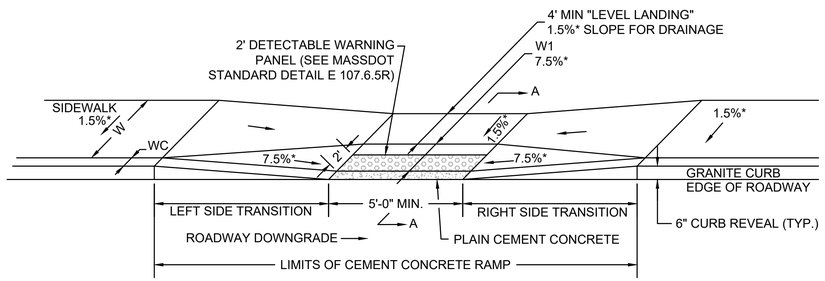


BICYCLE RAMP
NOT TO SCALE

BIKE RAMP CHART					
BIKE RAMP NUMBER	STREET NAME ℄	STATION	OFFSET	RAMP OPENING WIDTH	RAMP LENGTH
1	BELMONT PATH	N: 2968921.9690	E: 742555.4453	8.00	11.00
2	BELMONT PATH	900+25 LT	21.50	8.00	11.00



PEDESTRIAN CURB RAMP FOR ONE DIRECTION OF TRAVEL
NOT TO SCALE



PEDESTRIAN CURB RAMP
LESS THAN 12'-4" SIDEWALK
NOT TO SCALE

PED. CURB RAMP DATA - LESS THAN 12'4" SIDEWALK								
PED CURB RAMP NUMBER	STREET NAME ℄	STATION	OFFSET	RAMP WIDTH	SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	CURB TRANSITION LENGTH	
							LEFT SIDE	RIGHT SIDE
1	BELMONT PATH	912+56	43.08	12.00	7.00	4.15%	6.5'	15.0'
2	BELMONT PATH	959+38	0.00	10.00	6.00	-0.02%	6.5'	7.67'
3	BELMONT PATH	959+69	0.00	17.00	6.00	0.20%	5.0'	6.5'
6	ALEXANDER AVE	510+29	43.08	12.00	7.00	-0.71%	6.5'	7.67'

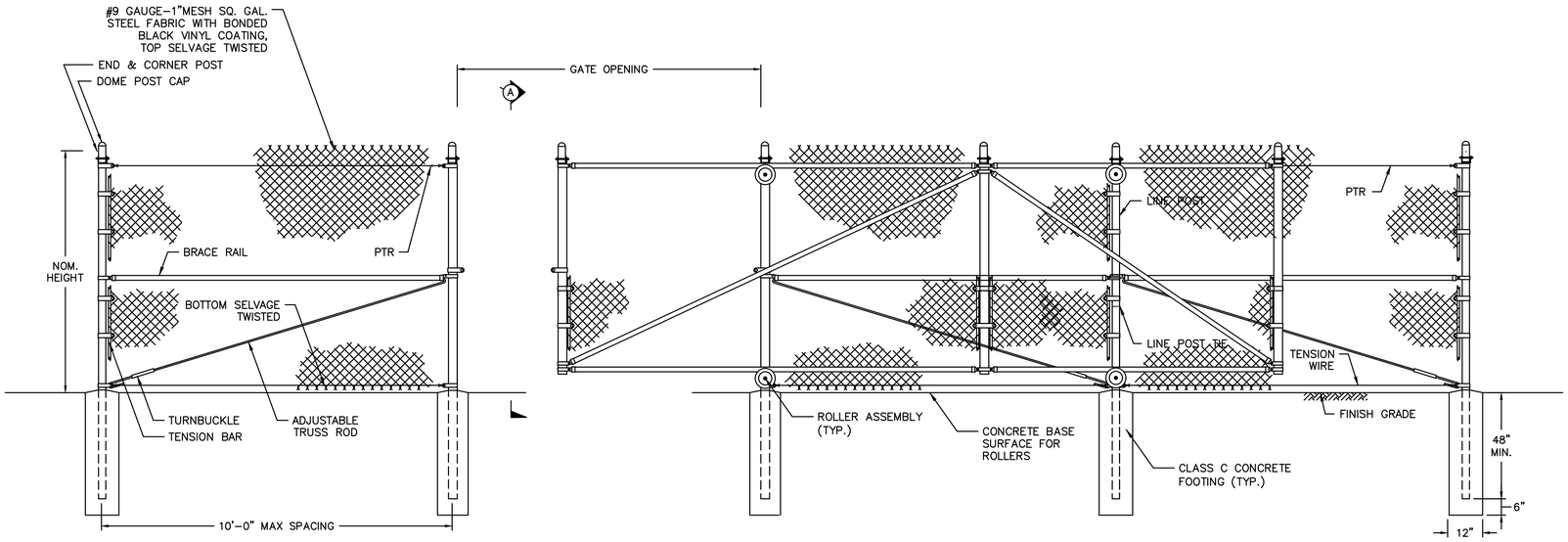
PED. CURB RAMP DATA - ONE DIRECTION OF TRAVEL								
PED CURB RAMP NUMBER	STREET NAME ℄	STATION	OFFSET	RAMP WIDTH	SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	CURB TRANSITI LENGTH	
							LEFT SIDE	RIGH SIDE
4	BRIGHTON STREET	201+13	14.17	8.00'	8.00'	2.90%	6.5'	--
5	BRIGHTON STREET	201+07	14.78	6.00'	6.00'	-2.90%	--	6.5'

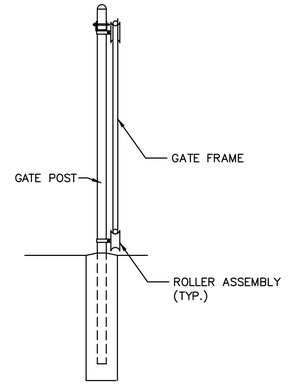
Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(DET).dwg 2/7/2025 1:15 PM
609204_HD(DET).DWG Plotted on Feb-25 1:15 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	106	186
PROJECT FILE NO.		609204	

CONSTRUCTION DETAILS





SECTION A-A

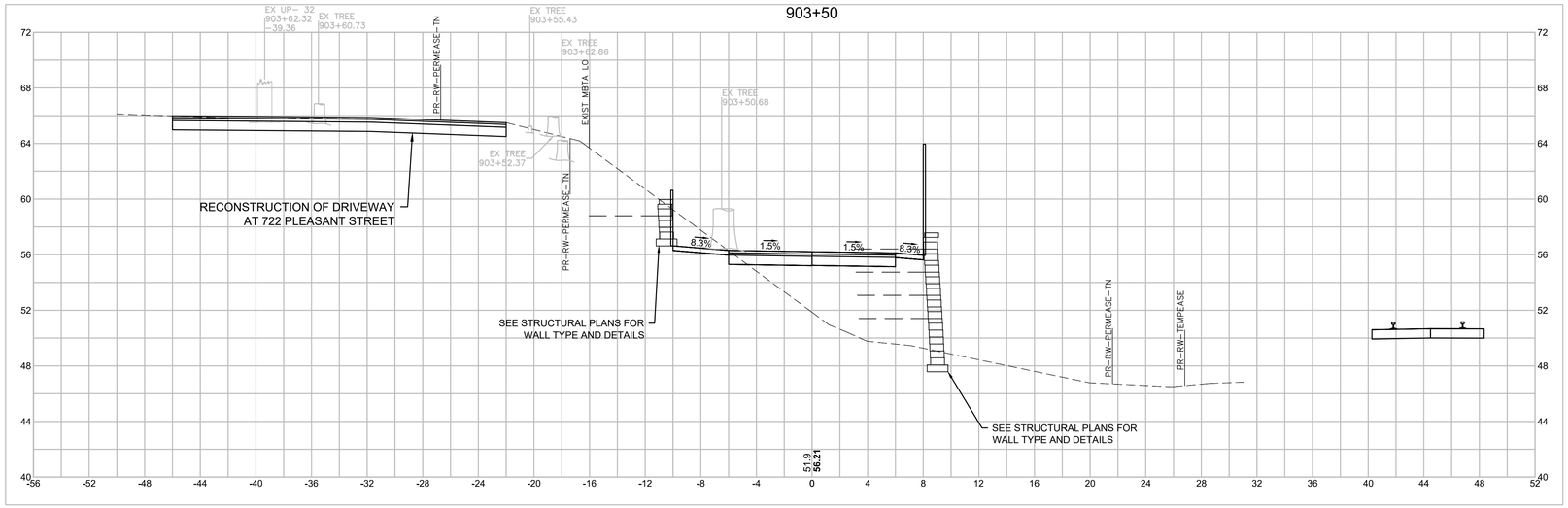
FENCE HEIGHT	END, CORNER & PULL POSTS	LINE POSTS WITH CORNER ARM	RAILS & BRACES
NOM. HT.	DIAMETER	DIAMETER	DIAMETER
8'–0"	2.875"	2.375"	1.625"

NOTES:

1. ALL STEEL TUBING SHALL BE SCHEDULE 40 HOT DIP GALVANIZED W/ BONDED BLACK VINYL COATING.
2. FOOTING WIDTH TO BE 4 TIMES THE POST WIDTH.
3. ALL POSTS AND RAILS SHALL BE ROUND.
4. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF ALL CHAIN LINK FENCES AND GATES.
5. REFER TO PLANS FOR FENCE LOCATION.

CHAIN LINK FENCE AND SLIDING GATE

NOT TO SCALE



RECONSTRUCTION OF DRIVEWAY AT 722 PLEASANT STREET

NOT TO SCALE

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(DET).dwg 2/7/2025 1:15 PM

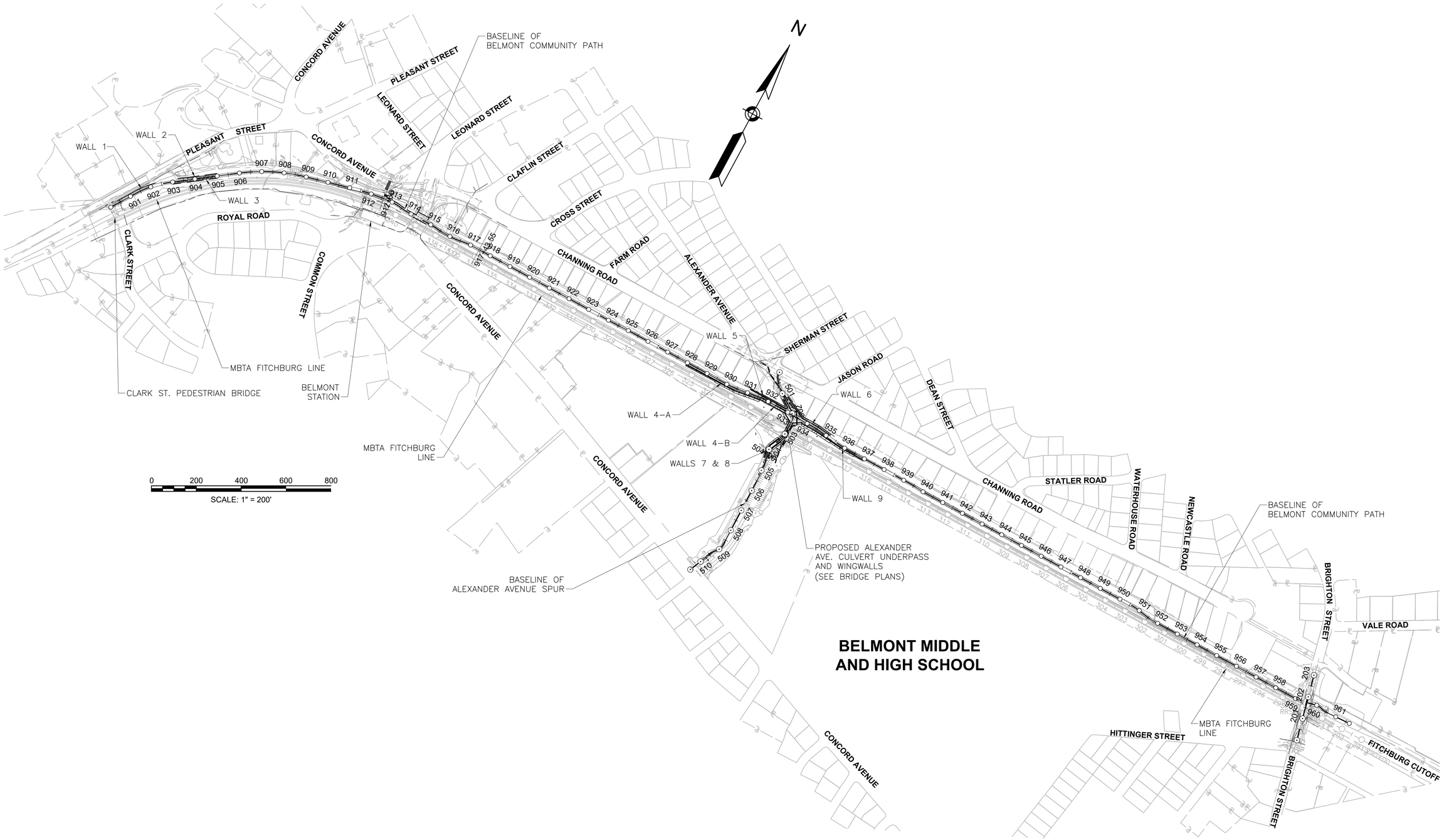
609204_HD(DET).DWG Plotted on Feb-25 1:15 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	107	186
PROJECT FILE NO.	609204		

RETAINING WALL KEY PLAN

609204_BRK(KEY PLAN).DWG Plotted on 7-Feb-2025 1:16 PM



KEY PLAN – SITE RETAINING WALLS

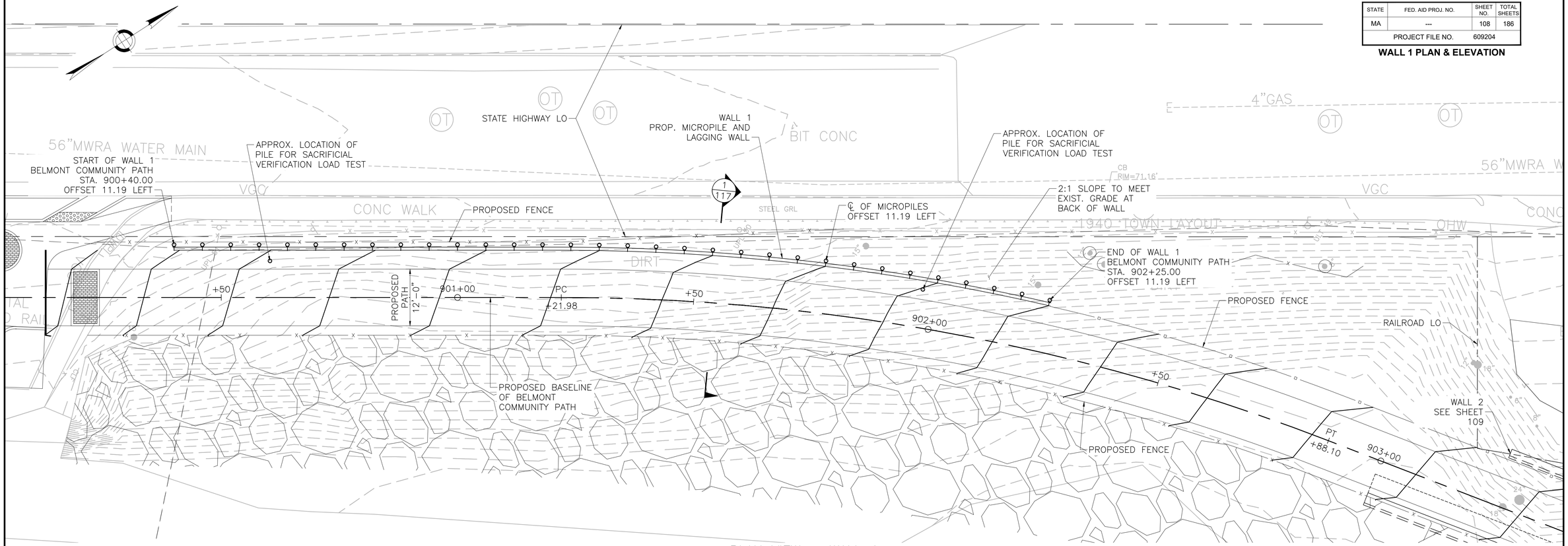
SCALE: 1" = 200'

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	108	186
PROJECT FILE NO.	609204		

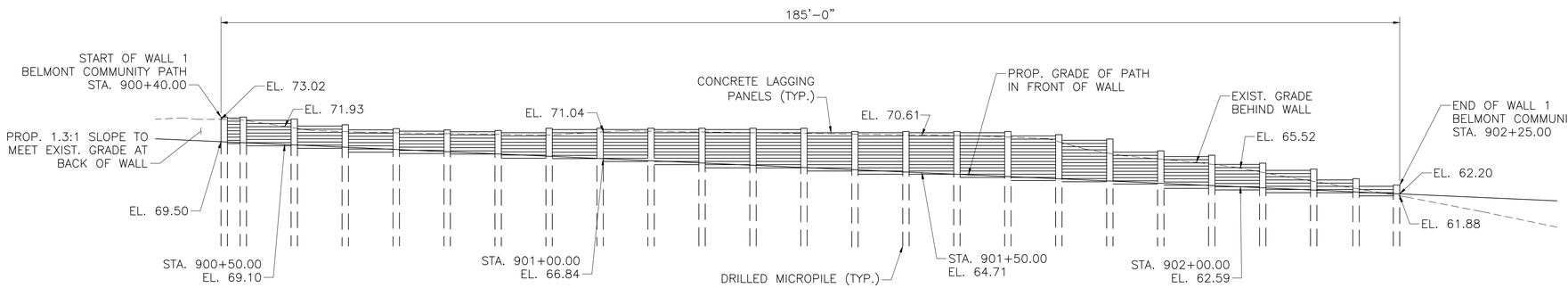
WALL 1 PLAN & ELEVATION

609204_BR(P&E).DWG Plotted on 7-Feb-2025 1:18 PM



PLAN VIEW – WALL 1

SCALE: 1" = 10'



ELEVATION VIEW – WALL 1

SCALE: 1" = 10'

NOTE: ELEVATION VIEW IS FLATTENED HERE

NOTES:
1. WALL 1 ELEVATIONS SHOWN ARE OF THE PROPOSED GRADES IN FRONT OF AND BEHIND THE WALL AT ENDS AND EVERY 50 FT.
2. WALL 1 SHALL BE DELEGATED DESIGN BY THE CONTRACTOR.

0 10 20 30 40

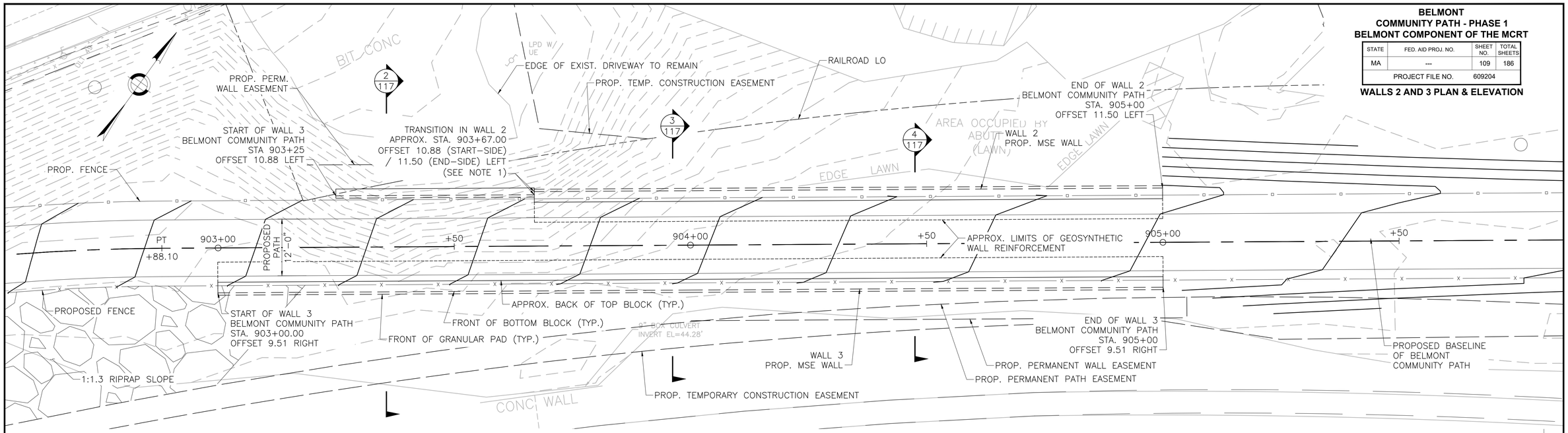
SCALE: 1" = 10'

WALL 1 – MICROPILE AND LAGGING WALL

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

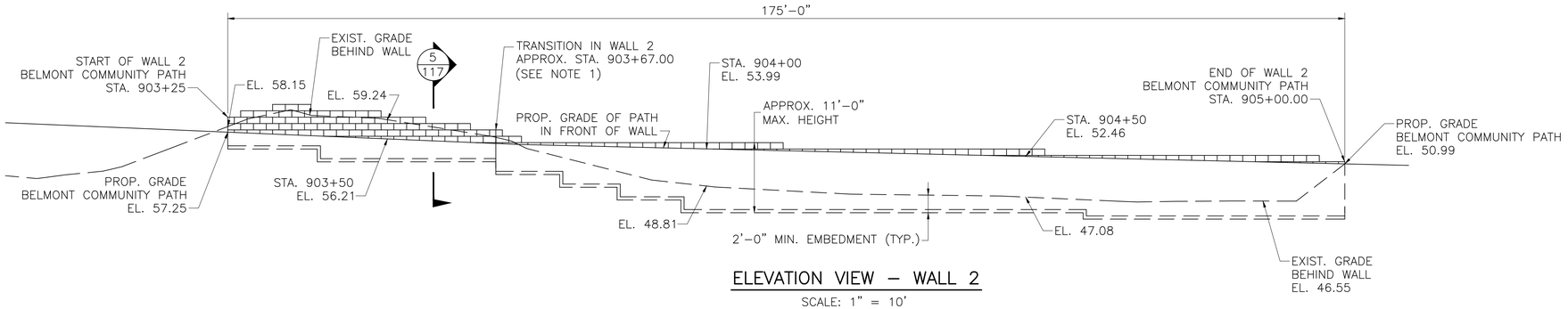
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	109	186
PROJECT FILE NO.	609204		

WALLS 2 AND 3 PLAN & ELEVATION



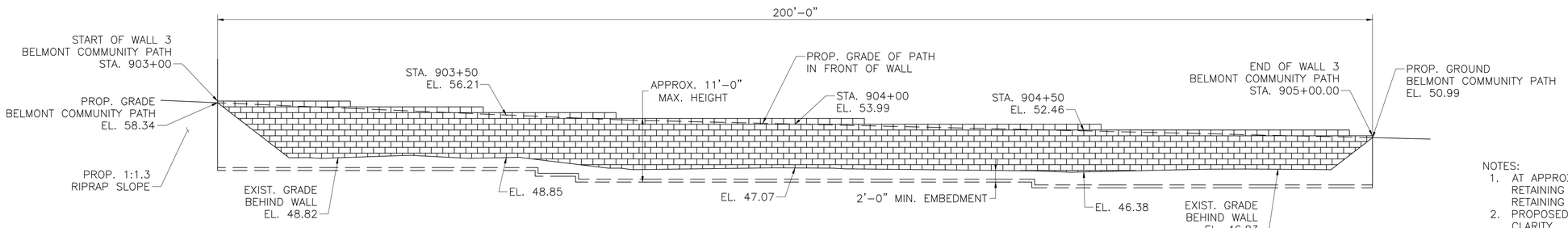
PLAN VIEW – WALLS 2 & 3

SCALE: 1" = 10'



ELEVATION VIEW – WALL 2

SCALE: 1" = 10'



ELEVATION VIEW – WALL 3

SCALE: 1" = 10'

NOTES:
1. AT APPROX. STA. 903+67.00 WALL 2 TRANSITIONS FROM RETAINING EXISTING GRADE ABOVE PROPOSED PATH TO RETAINING PATH ABOVE EXISTING GRADE.
2. PROPOSED FENCE NOT SHOWN ON ELEVATION VIEWS FOR CLARITY.
3. WALL 2 & 3 ELEVATIONS SHOWN ARE OF THE PROPOSED GRADES IN FRONT OF AND BEHIND THE WALLS AT ENDS AND EVERY 50 FT.
4. ELEVATION OF WALL 2 TAKEN FROM BEHIND THE WALL.

0 10 20 30 40

SCALE: 1" = 10'

WALLS 2 AND 3 – MECHANICALLY STABILIZED EARTH (MSE) WALLS

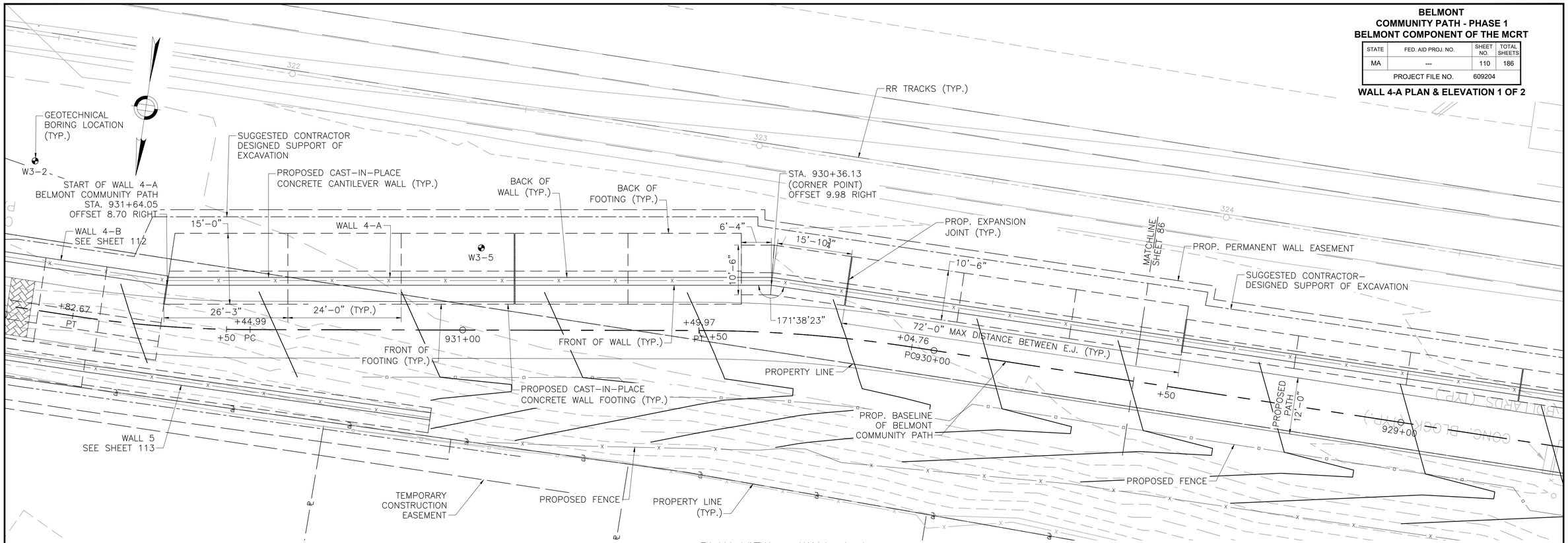
609204_BR(P&E).DWG Plotted on 7-Feb-2025 1:18 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	110	186
PROJECT FILE NO.	609204		

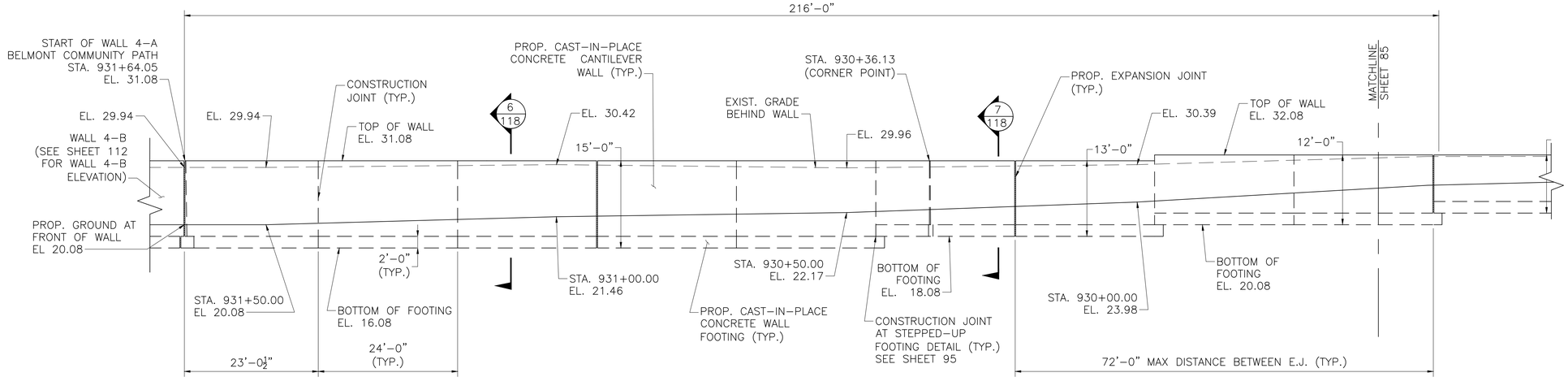
WALL 4-A PLAN & ELEVATION 1 OF 2

609204_BR(P&E).DWG Plotted on 7-Feb-2025 1:18 PM



PLAN VIEW – WALL 4-A

SCALE: 1" = 10'



ELEVATION VIEW – WALL 4-A

SCALE: 1" = 10'

NOTE: ELEVATION VIEW IS FLATTENED HERE

WALL 4-A – CAST-IN-PLACE CONCRETE CANTILEVER WALL

0 10 20 30 40

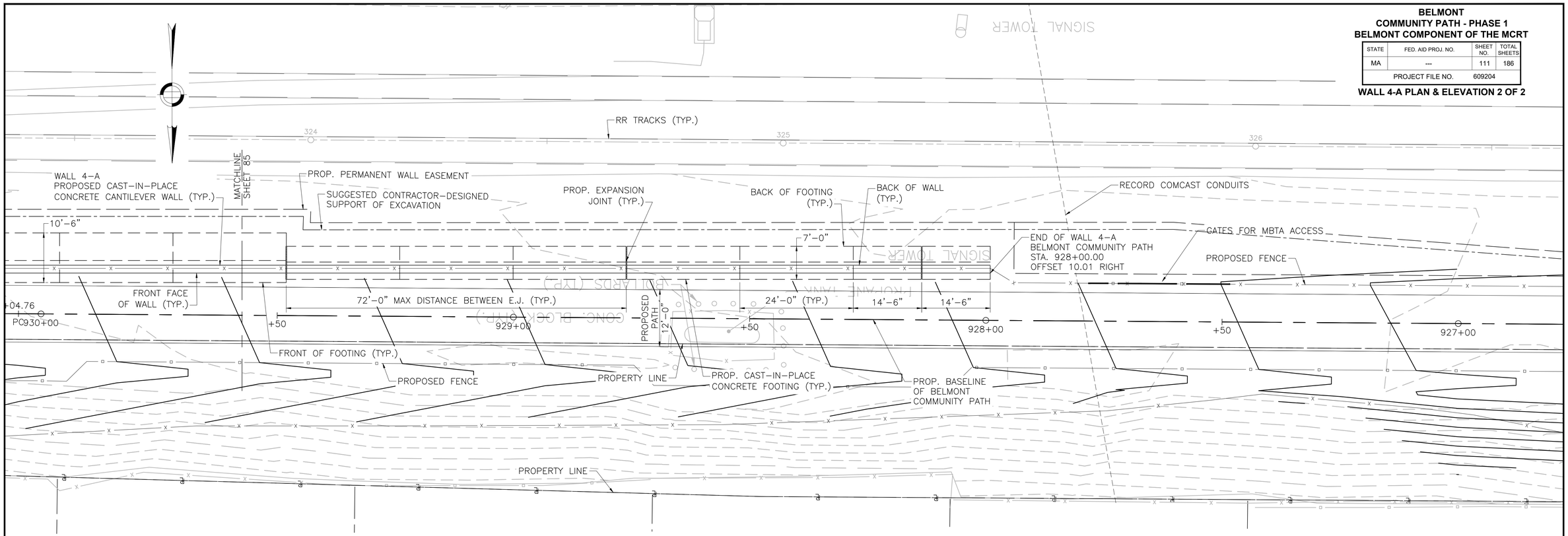
SCALE: 1" = 10'

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	111	186
PROJECT FILE NO.	609204		

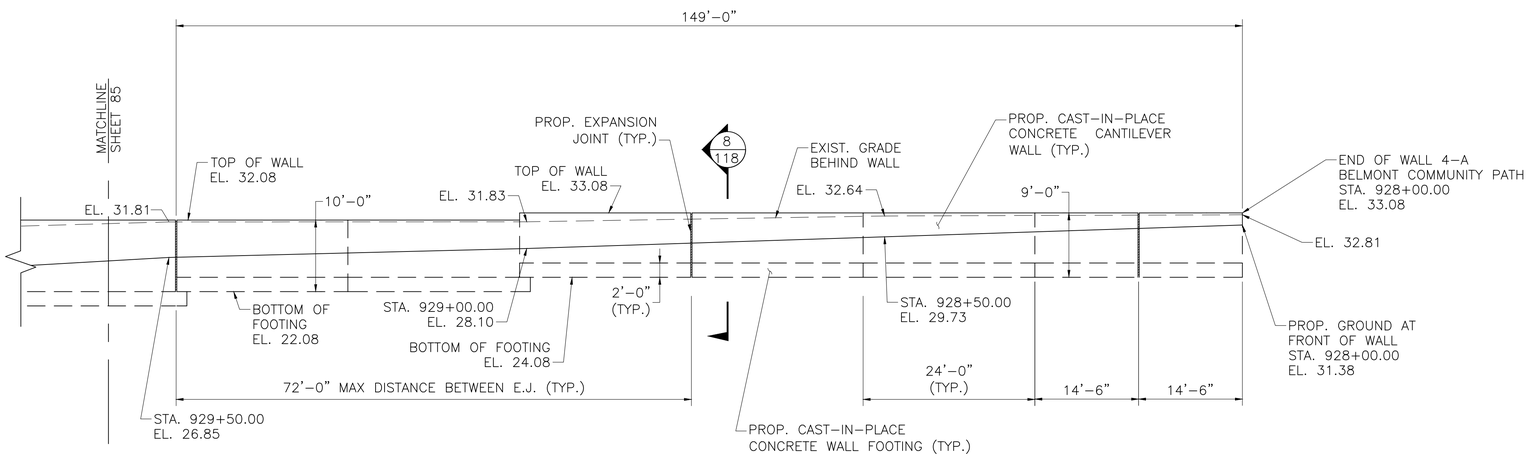
WALL 4-A PLAN & ELEVATION 2 OF 2

609204_BR(P&E).DWG Plotted on 7-Feb-2025 1:19 PM



PLAN VIEW – WALL 4–A

SCALE: 1" = 10'



ELEVATION VIEW – WALL 4–A

SCALE: 1" = 10'

WALL 4–A – CAST–IN–PLACE CONCRETE CANTILEVER WALL

0 10 20 30 40

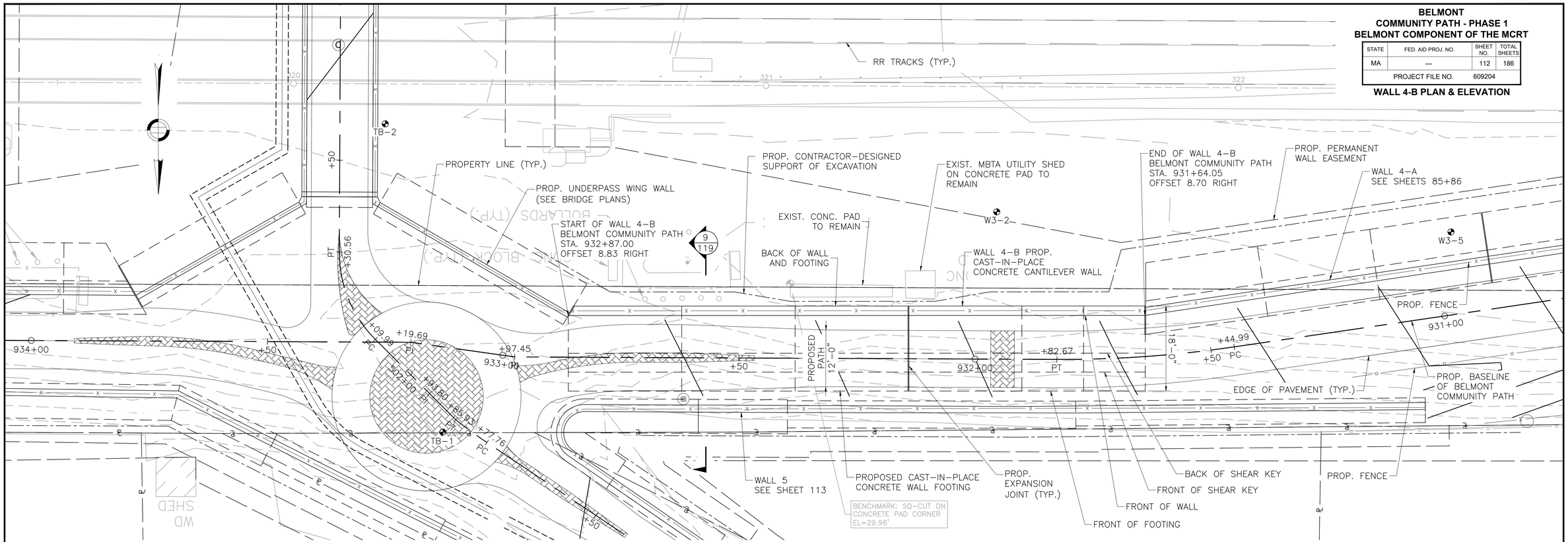
SCALE: 1" = 10'

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	112	186
PROJECT FILE NO.		609204	

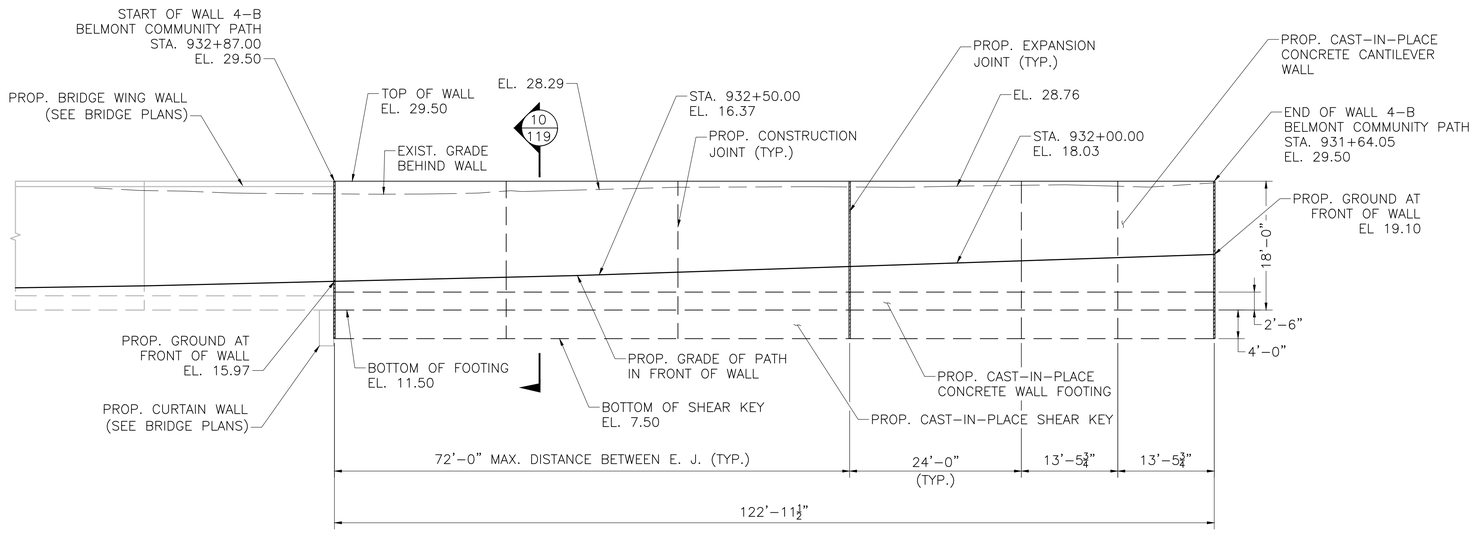
WALL 4-B PLAN & ELEVATION

609204_BR(P&E).DWG Plotted on 7-Feb-2025 1:19 PM



PLAN VIEW – WALL 4-B

SCALE: 1" = 10'



ELEVATION VIEW – WALL 4-B

SCALE: 1" = 10'

WALL 4-B – CAST-IN-PLACE CONCRETE CANTILEVER WALL WITH SHEAR KEY

0 10 20 30 40

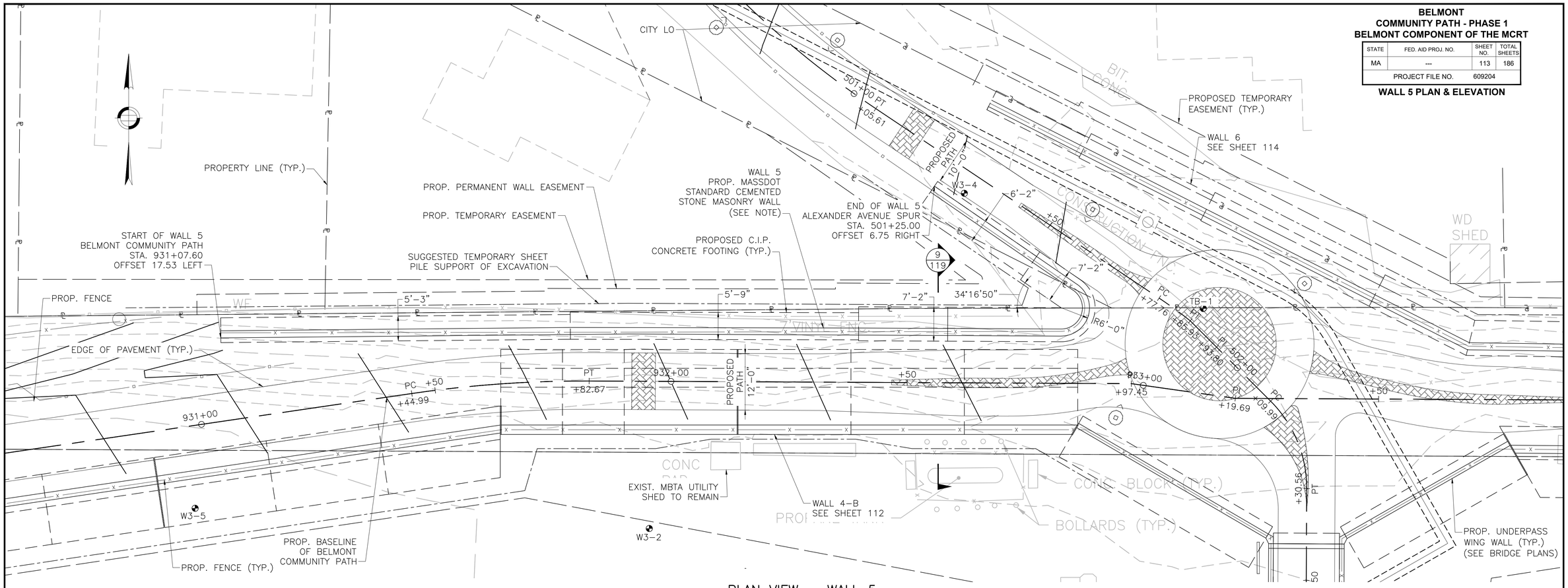
SCALE: 1" = 10'

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	113	186
PROJECT FILE NO.	609204		

WALL 5 PLAN & ELEVATION

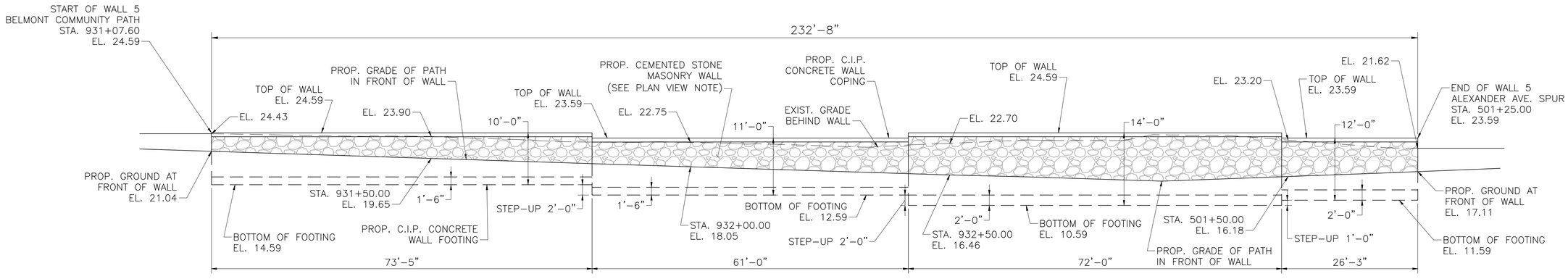
609204_BRI(P&E).DWG Plotted on 7-Feb-2025 1:20 PM



PLAN VIEW – WALL 5

SCALE: 1" = 10'

NOTE: SEE MASSDOT CONSTRUCTION STANDARD E302.2.0 FOR ADDITIONAL DETAILS AND DIMENSIONS



ELEVATION VIEW – WALL 5

SCALE: 1" = 10'

NOTE: ELEVATION VIEW IS FLATTENED HERE

0 10 20 30 40

SCALE: 1" = 10'

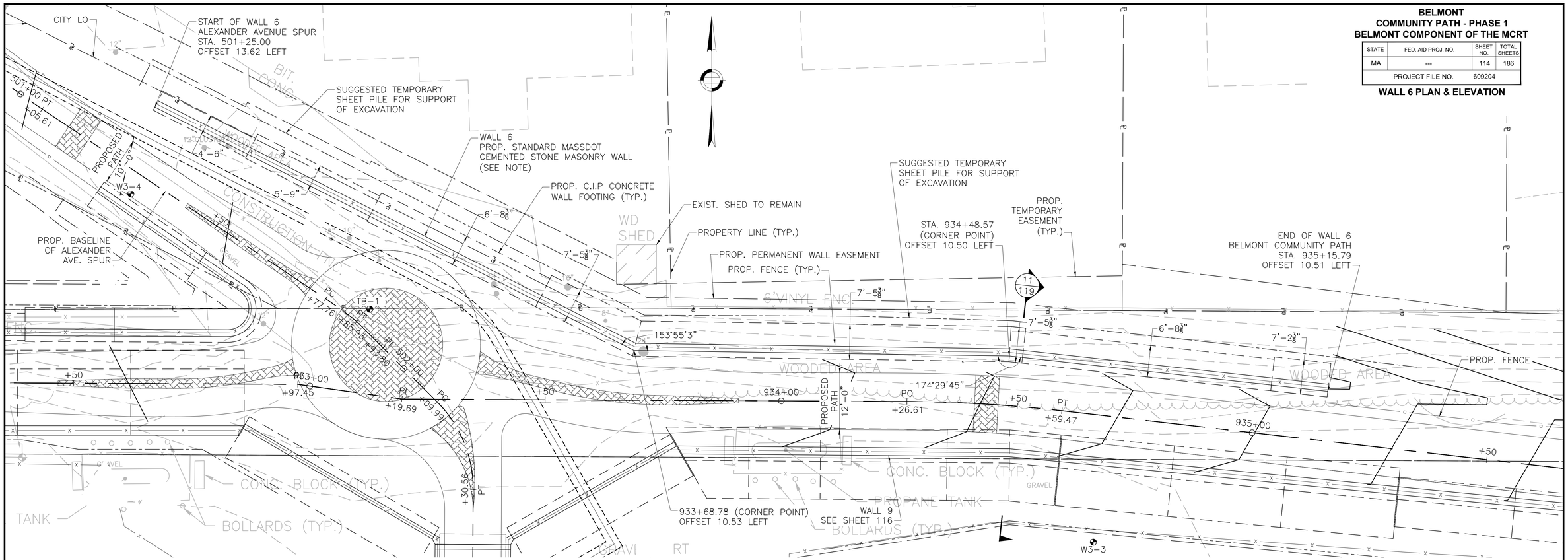
WALL 5 – MASSDOT STANDARD CEMENTED STONE MASONRY WALL

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	114	186
PROJECT FILE NO.	609204		

WALL 6 PLAN & ELEVATION

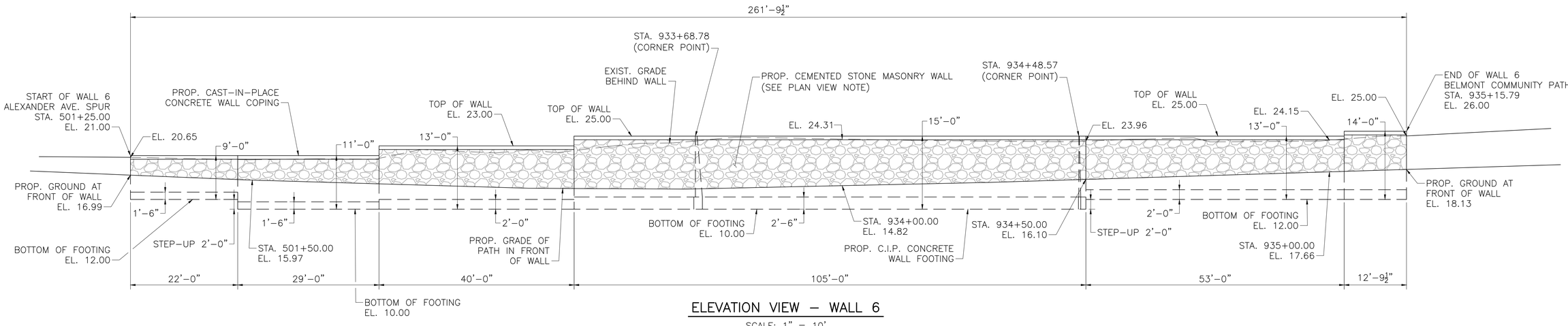
609204_BR(P&E).DWG Plotted on 7-Feb-2025 1:21 PM



PLAN VIEW – WALL 6

SCALE: 1" = 10'

NOTE: SEE MASSDOT CONSTRUCTION STANDARD E302.2.0 FOR ADDITIONAL DETAILS AND DIMENSIONS



ELEVATION VIEW – WALL 6

SCALE: 1" = 10'

NOTE: ELEVATION VIEW IS FLATTENED HERE

0 10 20 30 40

SCALE: 1" = 10'

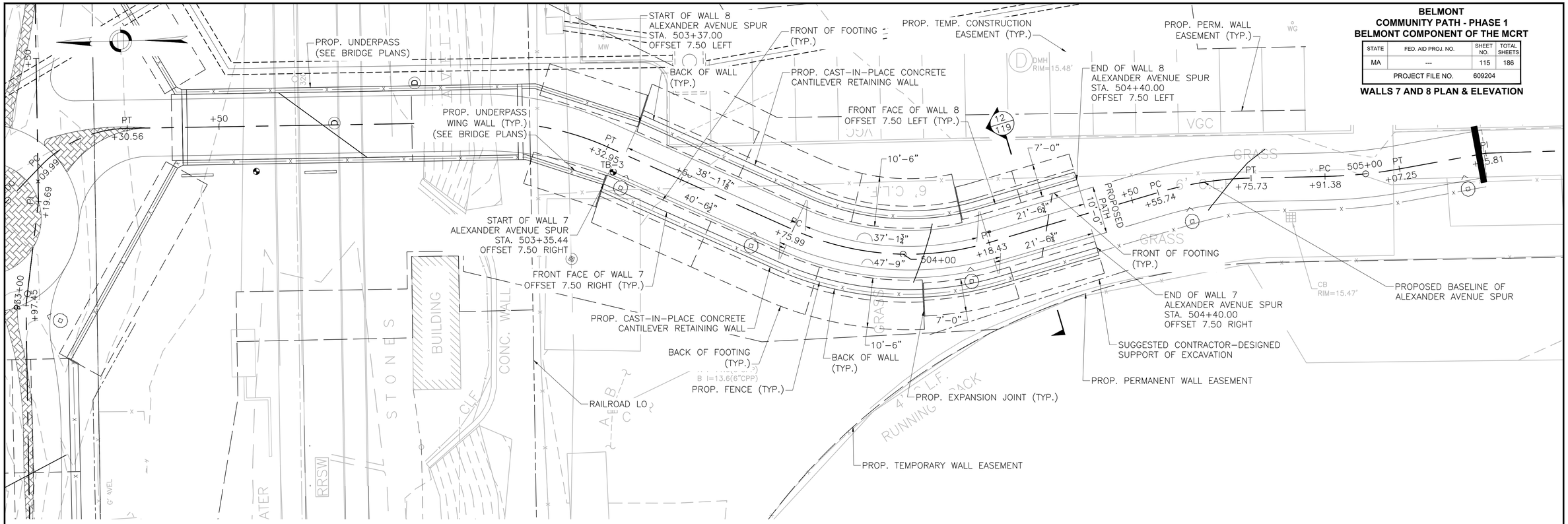
WALL 6 – MASSDOT STANDARD CEMENTED STONE MASONRY WALL

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	115	186
PROJECT FILE NO.	609204		

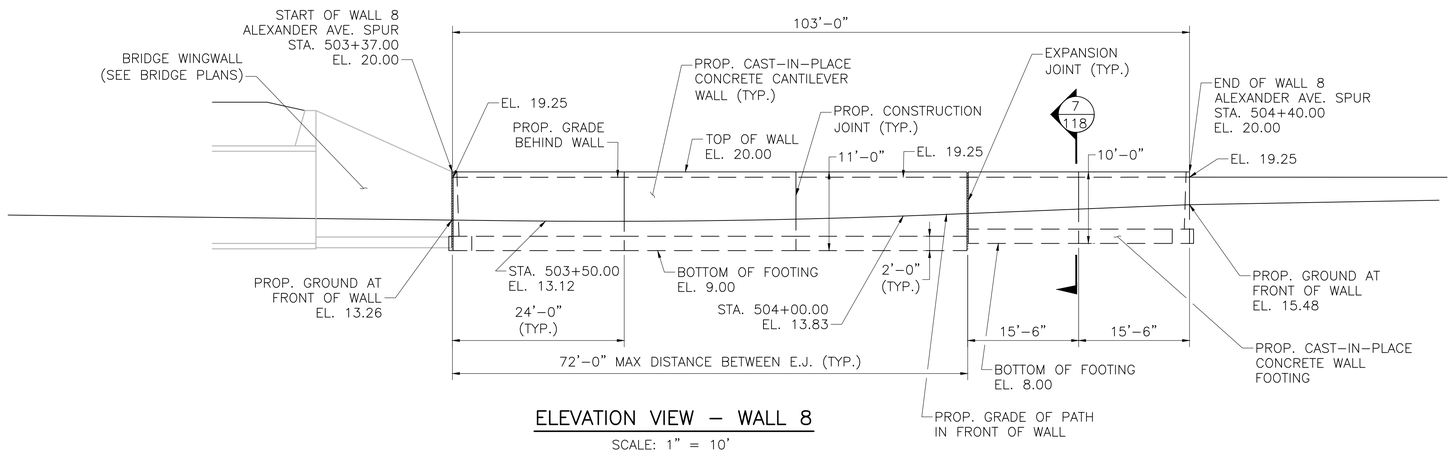
WALLS 7 AND 8 PLAN & ELEVATION

609204_BR(P&E).DWG Plotted on 7-Feb-2025 1:21 PM



PLAN VIEW – WALLS 7 & 8

SCALE: 1" = 10'



ELEVATION VIEW – WALL 8

SCALE: 1" = 10'

NOTE: ELEVATION OF WALL 7 IS NOT SHOWN, BUT IS SIMILAR TO WALL 8

0 10 20 30 40

SCALE: 1" = 10'

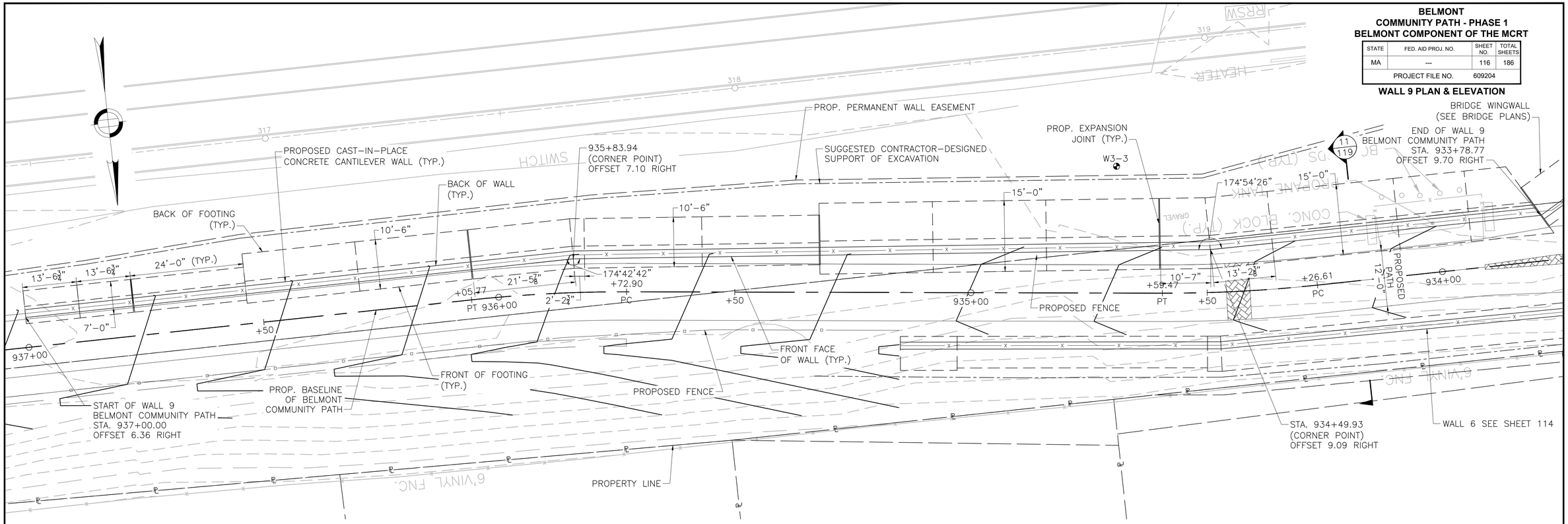
WALLS 7 & 8 – CAST-IN-PLACE CONCRETE CANTILEVER WALLS

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	116	186
PROJECT FILE NO.	609204		

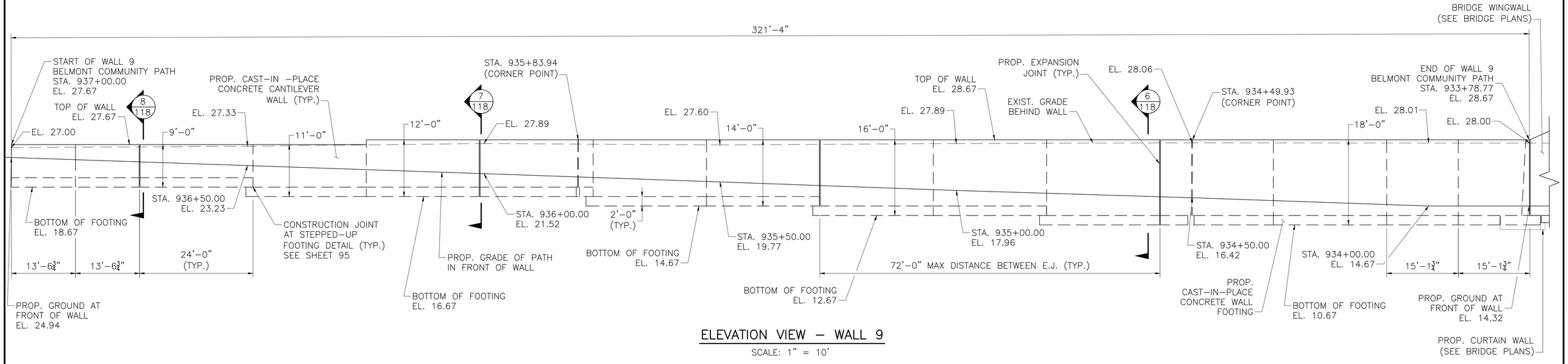
WALL 9 PLAN & ELEVATION

609204_BR(P&E).DWG Plotted on 7-Feb-2025 1:22 PM



PLAN VIEW – WALL 9

SCALE: 1" = 10'



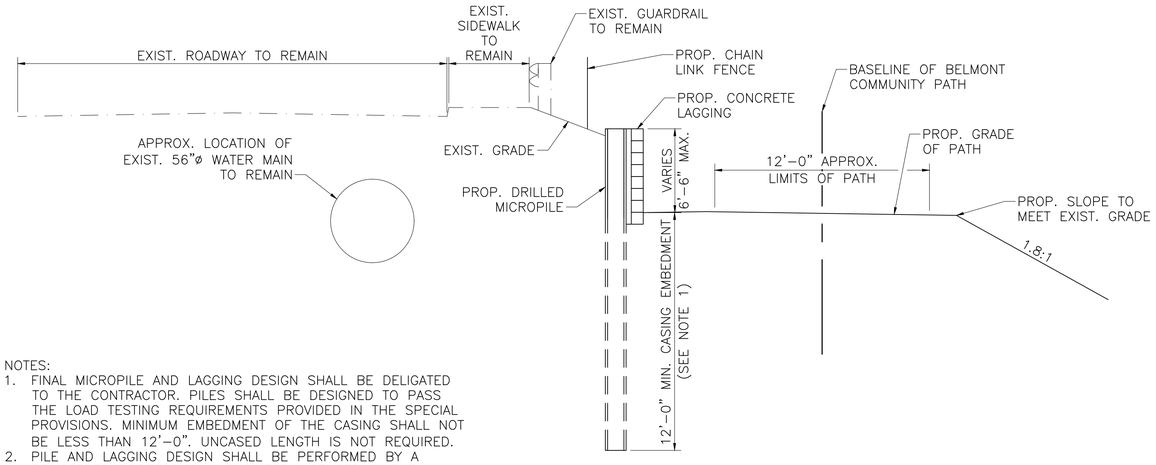
ELEVATION VIEW – WALL 9

SCALE: 1" = 10'

0 10 20 30 40

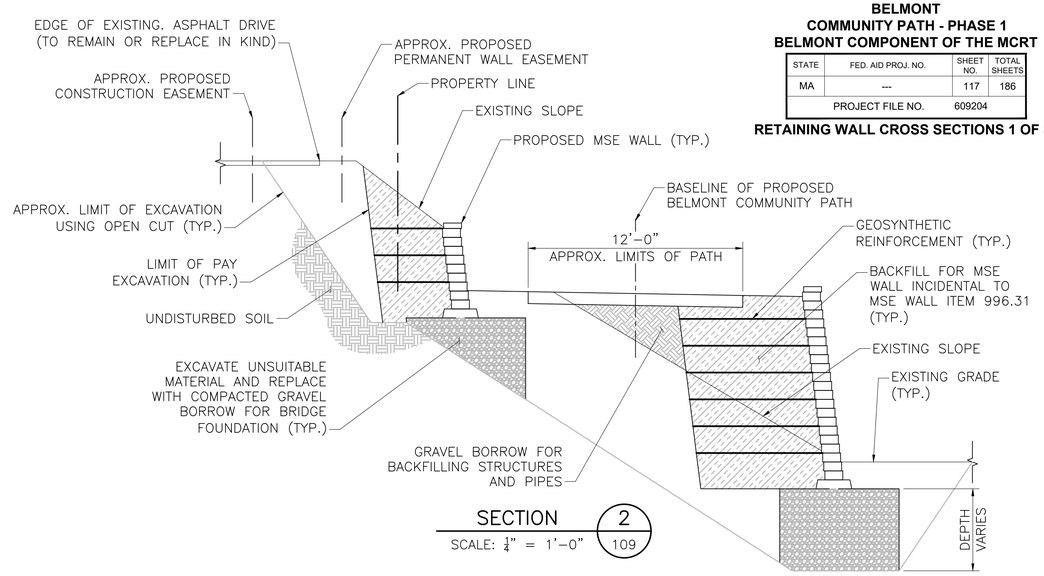
SCALE: 1" = 10'

WALL 9 – CAST-IN-PLACE CONCRETE CANTILEVER WALL

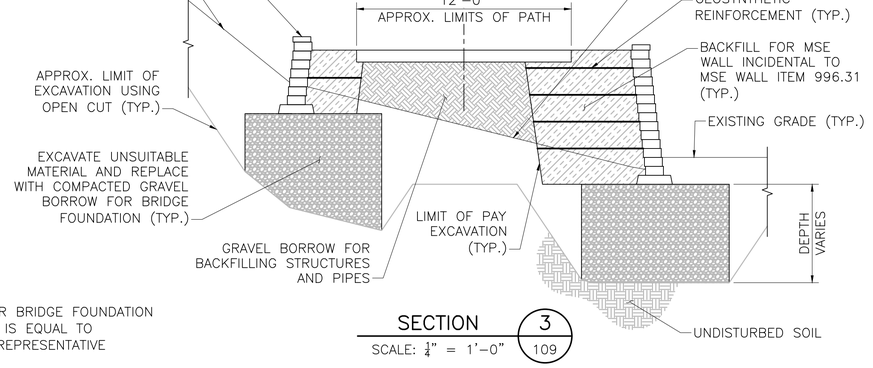


NOTES:
1. FINAL MICROPILE AND LAGGING DESIGN SHALL BE DELIGATED TO THE CONTRACTOR. PILES SHALL BE DESIGNED TO PASS THE LOAD TESTING REQUIREMENTS PROVIDED IN THE SPECIAL PROVISIONS. MINIMUM EMBEDMENT OF THE CASING SHALL NOT BE LESS THAN 12'–0". UNCASED LENGTH IS NOT REQUIRED.
2. PILE AND LAGGING DESIGN SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE COMMONWEALTH OF MASSACHUSETTS. DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
3. DRILLED MICROPILES ARE PREFERRED TO AVOID NOISE AND VIBRATIONS FROM PILE DRIVING. USE OF ALTERNATIVE PILE TYPES, SUCH AS H–PILE, IF REQUIRED, MUST BE APPROVED BY THE ENGINEER, AND INCLUDE MITIGATION FOR SOUND AND VIBRATIONS.

SECTION 1 / 108
SCALE: ¼" = 1'–0"

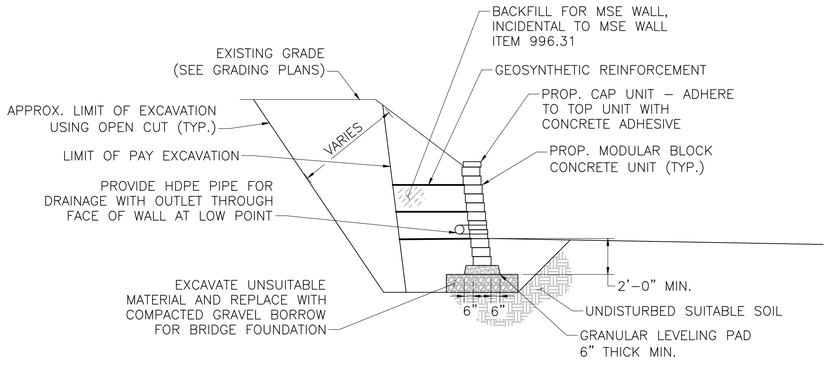


SECTION 2 / 109
SCALE: ¼" = 1'–0"



SECTION 3 / 109
SCALE: ¼" = 1'–0"

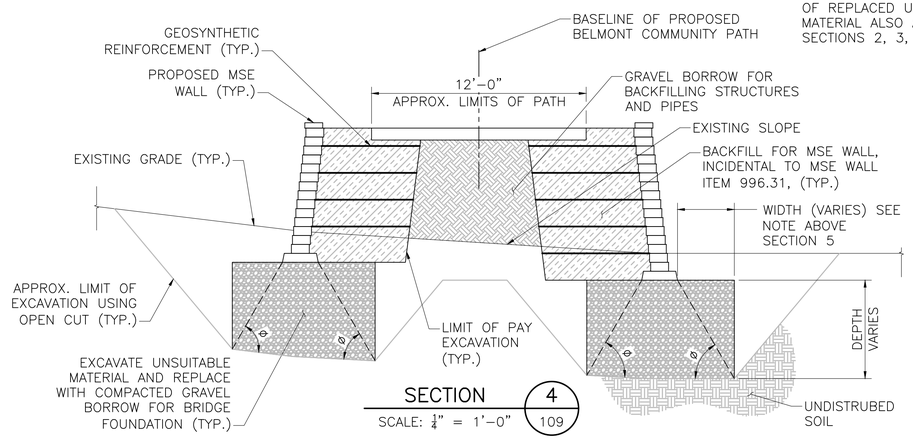
NOTE: WIDTH OF GRAVEL BORROW FOR BRIDGE FOUNDATION BEYOND LEVELING PAD (BOTH SIDES) IS EQUAL TO DEPTH/TAN(ø). SEE SECTION 4 FOR REPRESENTATIVE DEPICTION OF THESE ANGLES.
ø = 45° FOR DEPTH OF 5'–0" OR LESS
ø = 60° FOR DEPTH OVER 5'–0"



TYPICAL MSE WALL DETAILS

SECTION 5 / 109
SCALE: ¼" = 1'–0"

NOTE: ANGLES DEFINING WIDTHS OF REPLACED UNSUITABLE MATERIAL ALSO APPLY TO SECTIONS 2, 3, AND 5



SECTION 4 / 109
SCALE: ¼" = 1'–0"

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	117	186
PROJECT FILE NO.	609204		

RETAINING WALL CROSS SECTIONS 1 OF 3

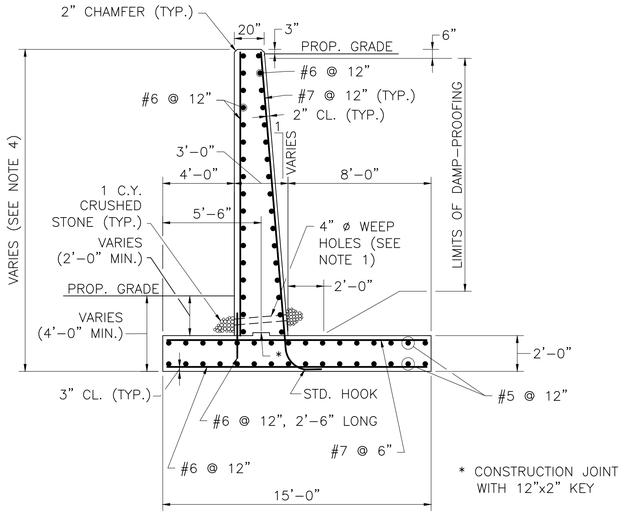
609204_BR(XSEC).DWG Plotted on 7-Feb-2025 1:22 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	118	186
PROJECT FILE NO.	609204		

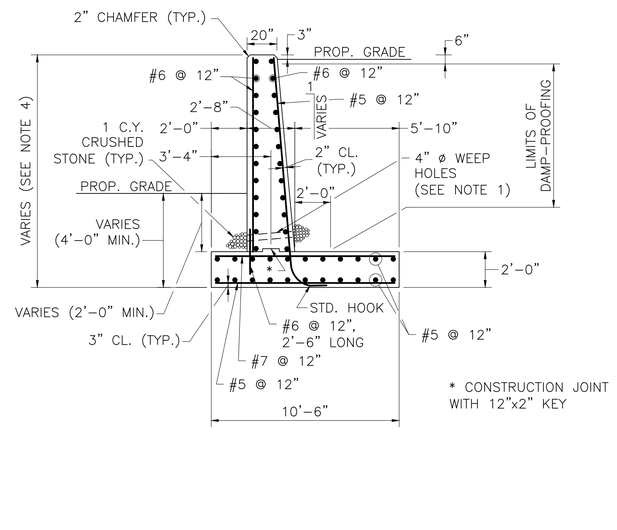
RETAINING WALL CROSS SECTIONS 2 OF 3

609204_BR(XSEC).DWG Plotted on 7-Feb-2025 1:22 PM



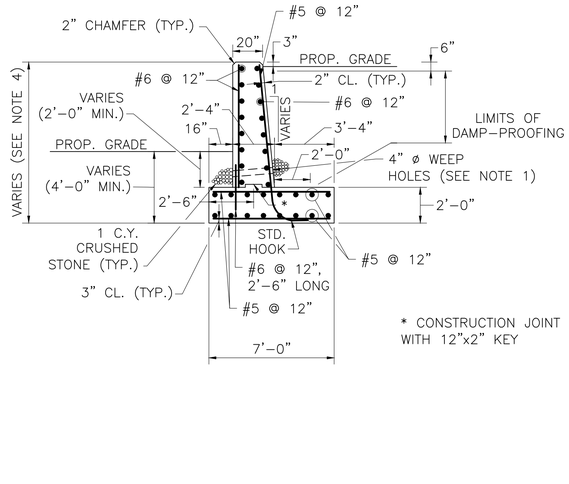
SECTION 6 (110+116)
SCALE: 1/4" = 1'–0"

NOTES:
1. 4" ø WEEP HOLES 10'–0" O.C. LOCATED 12" ABOVE THE HEEL OF THE FOOTING SLOPING 1" PER FOOT TOWARDS THE FRONT FACE. PROVIDE 1 CUBIC YARD OF CRUSHED STONE AT EACH END OF WEEP HOLE.
2. FACTORED BEARING PRESSURE PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
   - STRENGTH I LIMIT STATE
     FACTORED BEARING PRESSURE = 3.00 KSF.
3. FACTORED BEARING RESISTANCE = 3.00 KSF FOR THE STRENGTH I LIMIT STATE AND IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 5.45 KSF AND A RESISTANCE FACTOR OF 0.55.
4. SECTION 12 APPLICABLE FOR CANTILEVER WALLS MEASURING GREATER THAN 14'–0" TO 18'–0" TOTAL HEIGHT.
5. REPLACE UNSUITABLE FILL SOILS WITH COMPACTED GRAVEL BORROW FOR BRIDGE FOUNDATION AS NECESSARY, PER GEOTECHNICAL REPORT (PG. 13).
6. A 4" DEEP STABILIZING LAYER OF CRUSHED STONE (UNDER GRAVEL BORROW FOR BRIDGE FOUNDATION IF NECESSARY) SHALL BE PLACED UNDER ALL CANTILEVER WALL FOOTINGS, PER GEOTECH REPORT (PG. 18).



SECTION 7 (110, 115, 116)
SCALE: 1/4" = 1'–0"

NOTES:
1. 4" ø WEEP HOLES 10'–0" O.C. LOCATED 12" ABOVE THE HEEL OF THE FOOTING SLOPING 1" PER FOOT TOWARDS THE FRONT FACE. PROVIDE 1 CUBIC YARD OF CRUSHED STONE AT EACH END OF WEEP HOLE.
2. FACTORED BEARING PRESSURE PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
   - STRENGTH I LIMIT STATE
     FACTORED BEARING PRESSURE = 2.99 KSF.
3. FACTORED BEARING RESISTANCE = 3.00 KSF FOR THE STRENGTH I LIMIT STATE AND IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 5.45 KSF AND A RESISTANCE FACTOR OF 0.55.
4. SECTION 5 APPLICABLE FOR CANTILEVER WALLS MEASURING GREATER THAN 10'–0" TO 14'–0" TOTAL HEIGHT.
5. REPLACE UNSUITABLE FILL SOILS WITH COMPACTED GRAVEL BORROW FOR BRIDGE FOUNDATION AS NECESSARY, PER GEOTECHNICAL REPORT (PG. 13).
6. A 4" DEEP STABILIZING LAYER OF CRUSHED STONE (UNDER GRAVEL BORROW FOR BRIDGE FOUNDATION IF NECESSARY) SHALL BE PLACED UNDER ALL CANTILEVER WALL FOOTINGS, PER GEOTECH REPORT (PG. 18).



SECTION 8 (111+116)
SCALE: 1/4" = 1'–0"

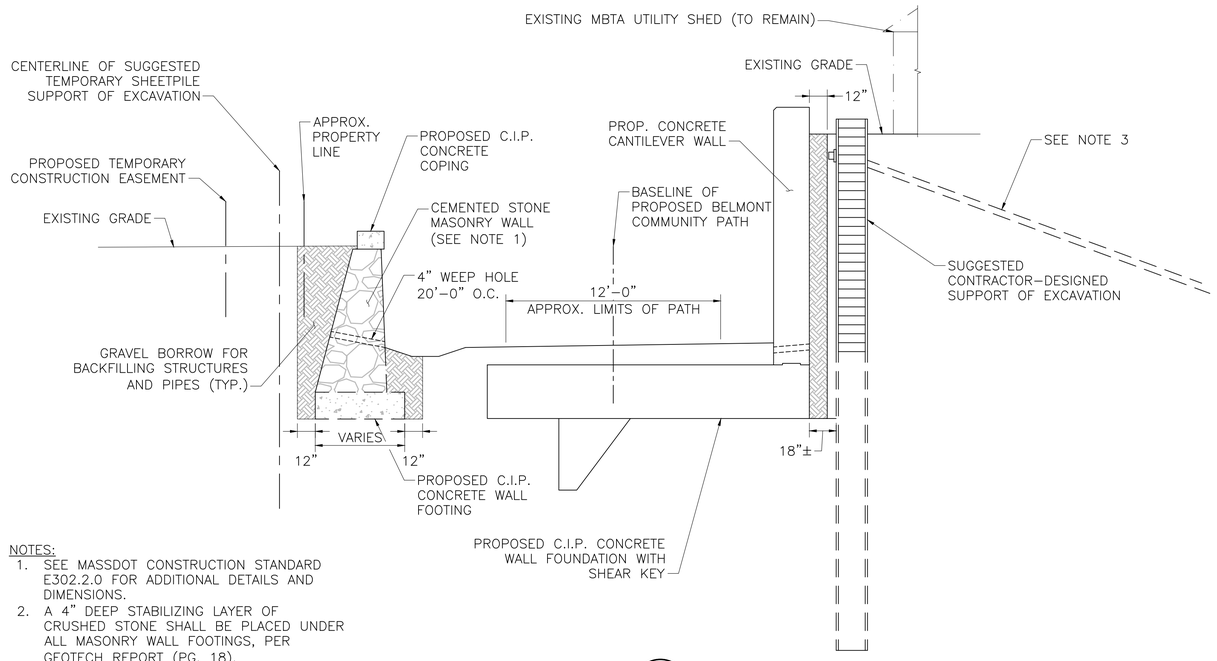
NOTES:
1. 4" ø WEEP HOLES 10'–0" O.C. LOCATED 12" ABOVE THE HEEL OF THE FOOTING SLOPING 1" PER FOOT TOWARDS THE FRONT FACE. PROVIDE 1 CUBIC YARD OF CRUSHED STONE AT EACH END OF WEEP HOLE.
2. FACTORED BEARING PRESSURE PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
   - STRENGTH I LIMIT STATE
     FACTORED BEARING PRESSURE = 2.37 KSF.
3. FACTORED BEARING RESISTANCE = 3.00 KSF FOR THE STRENGTH I LIMIT STATE AND IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 5.45 KSF AND A RESISTANCE FACTOR OF 0.55.
4. SECTION 6 APPLICABLE FOR CANTILEVER WALLS UP TO 10'–0" TOTAL HEIGHT.
5. REPLACE UNSUITABLE FILL SOILS WITH COMPACTED GRAVEL BORROW FOR BRIDGE FOUNDATION AS NECESSARY, PER GEOTECHNICAL REPORT (PG. 13).
6. A 4" DEEP STABILIZING LAYER OF CRUSHED STONE (UNDER GRAVEL BORROW FOR BRIDGE FOUNDATION IF NECESSARY) SHALL BE PLACED UNDER ALL CANTILEVER WALL FOOTINGS, PER GEOTECH REPORT (PG. 18).

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	119	186
PROJECT FILE NO.	609204		

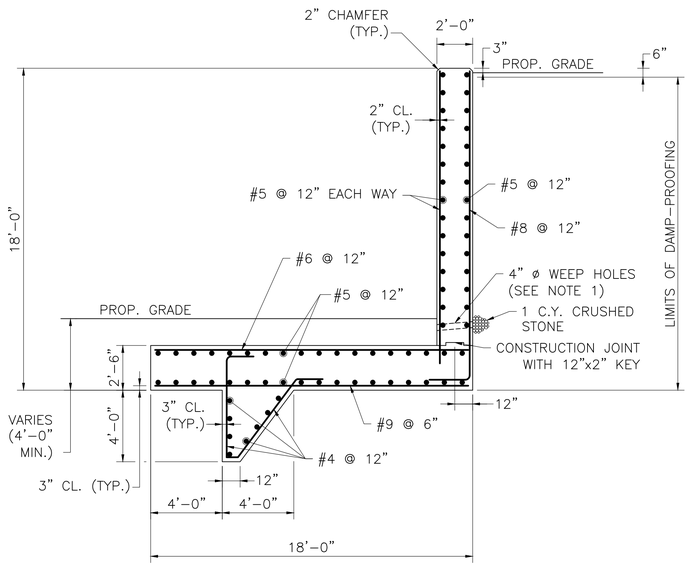
RETAINING WALL CROSS SECTIONS 3 OF 3

609204_BR(XSEC).DWG Plotted on 7-Feb-2025 1:22 PM



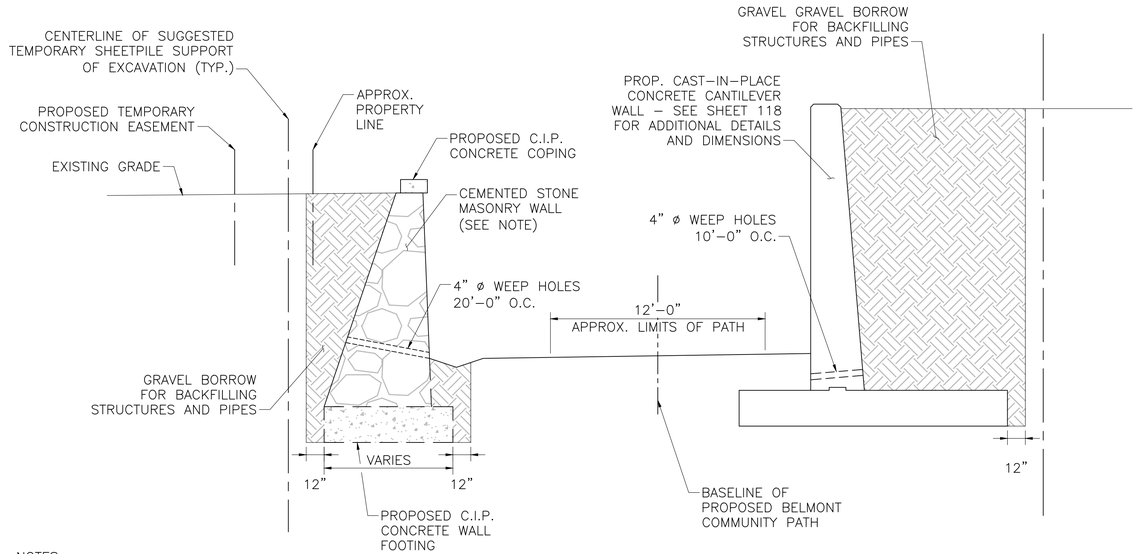
NOTES:
1. SEE MASSDOT CONSTRUCTION STANDARD E302.2.0 FOR ADDITIONAL DETAILS AND DIMENSIONS.
2. A 4" DEEP STABILIZING LAYER OF CRUSHED STONE SHALL BE PLACED UNDER ALL MASONRY WALL FOOTINGS, PER GEOTECH REPORT (PG. 18).
3. TIE BACKS MAY BE USED FOR TEMPORARY SUPPORT OF EXCAVATION BUT SHALL NOT BE USED FOR SUPPORT OF A PERMANENT WALL. TIE BACKS MUST BE UNFASTENED OR CUT AFTER COMPLETION OF CONSTRUCTION.

SECTION 9 (112+113)
SCALE: 1/4" = 1'-0"



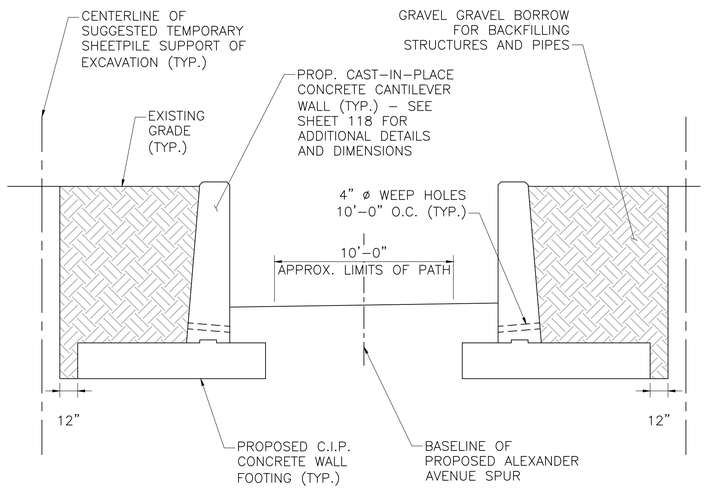
NOTES:
1. 4" ø WEEP HOLES 10'-0" O.C. LOCATED 12" ABOVE THE BACK OF THE TOP OF THE FOOTING SLOPING 1" PER FOOT TOWARDS THE FRONT FACE. PROVIDE 1 CUBIC YARD OF CRUSHED STONE AT EACH END OF WEEP HOLE.
2. FACTORED BEARING PRESSURE PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
   - STRENGTH I LIMIT STATE
     FACTORED BEARING PRESSURE = 1.49 KSF.
3. FACTORED BEARING RESISTANCE = 3.00 KSF FOR THE STRENGTH I LIMIT STATE AND IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 5.45 KSF AND A RESISTANCE FACTOR OF 0.55.

SECTION 10 (112)
SCALE: 1/4" = 1'-0"



NOTES:
1. SEE MASSDOT CONSTRUCTION STANDARD E302.2.0 FOR ADDITIONAL DETAILS AND DIMENSIONS.
2. A 4" DEEP STABILIZING LAYER OF CRUSHED STONE SHALL BE PLACED UNDER ALL MASONRY WALL FOOTINGS, PER GEOTECH REPORT (PG. 18).

SECTION 11 (114)
SCALE: 1/4" = 1'-0"



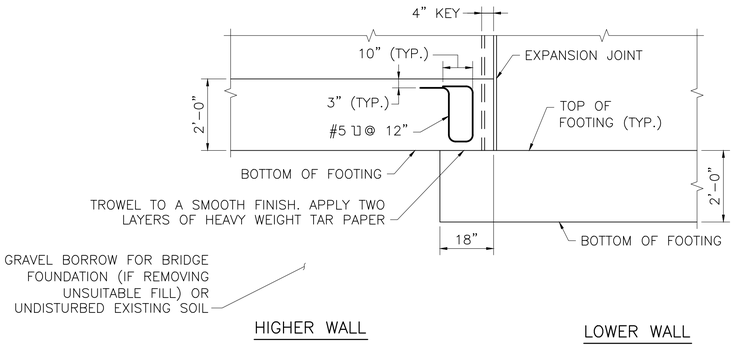
SECTION 12 (115)
SCALE: 1/4" = 1'-0"

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	120	186
PROJECT FILE NO.	609204		

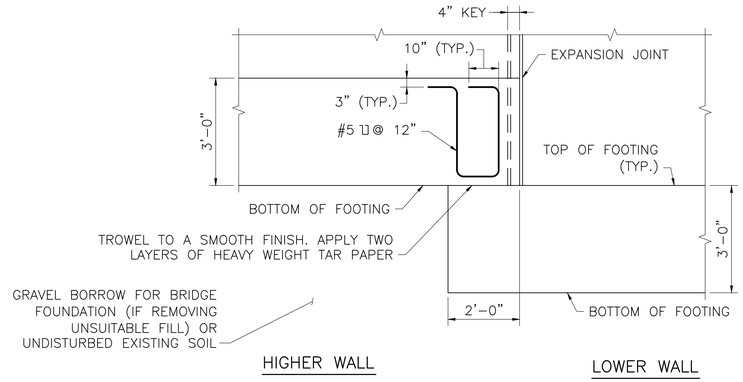
STEPPED-UP FOOTING DETAILS

609204_BR(DETAILS).DWG Plotted on 7-Feb-2025 1:22 PM



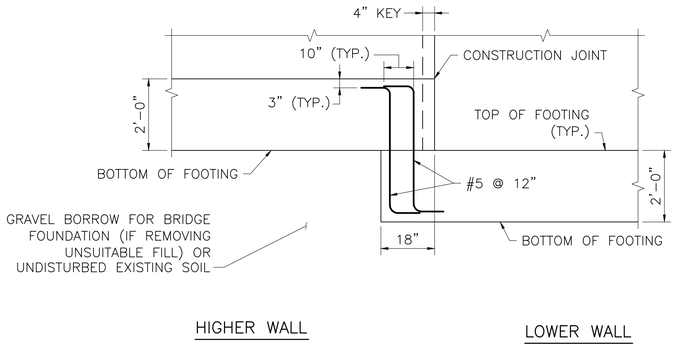
EXPANSION JOINT AT STEPPED–UP FOOTING DETAIL – WALLS 4–A, 7, 8, AND 9

SCALE: $\frac{1}{2}$" = 1'–0"



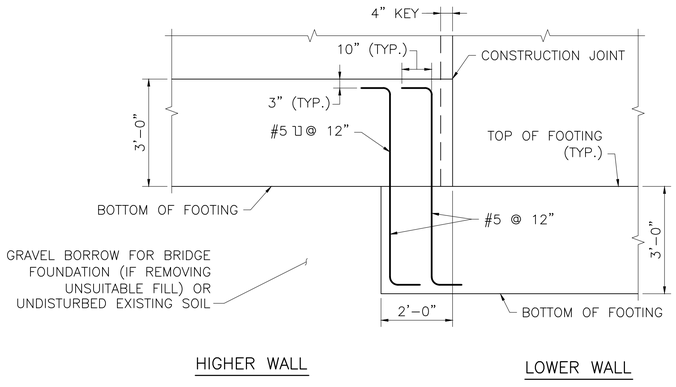
EXPANSION JOINT AT STEPPED–UP FOOTING DETAIL – WALL 4–B

SCALE: $\frac{1}{2}$" = 1'–0"



CONSTRUCTION JOINT AT STEPPED–UP FOOTING DETAIL – WALLS 4–A, 7, 8, AND 9

SCALE: $\frac{1}{2}$" = 1'–0"



CONSTRUCTION JOINT AT STEPPED–UP FOOTING DETAIL – WALL 4–B

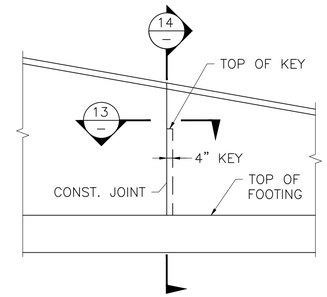
SCALE: $\frac{1}{2}$" = 1'–0"

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	121	186
PROJECT FILE NO.	609204		

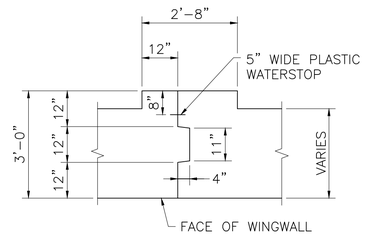
JOINT DETAILS

609204_BR(DETAILS).DWG Plotted on 7-Feb-2025 1:22 PM



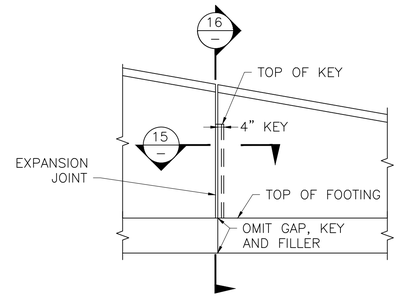
CONSTRUCTION JOINT DETAIL

SCALE: $\frac{1}{4}$" = 1'–0"



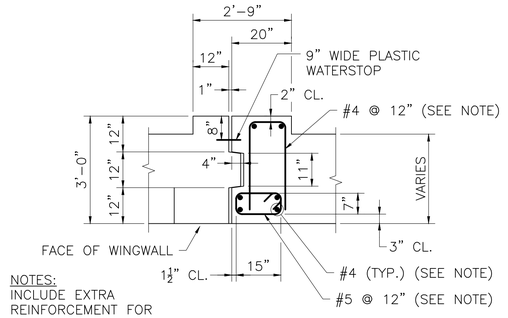
SECTION 13 –

SCALE: $\frac{1}{2}$" = 1'–0"



EXPANSION JOINT DETAIL

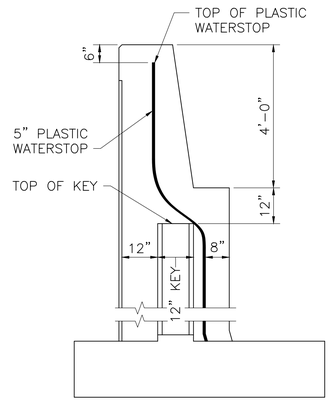
SCALE: $\frac{1}{4}$" = 1'–0"



NOTES:
INCLUDE EXTRA REINFORCEMENT FOR WALLS 14'–0" OR HIGHER

SECTION 15 –

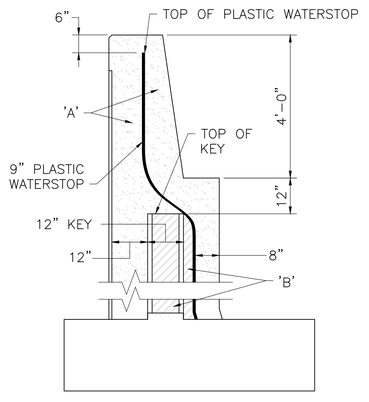
SCALE: $\frac{1}{2}$" = 1'–0"



SECTION 14 –

SCALE: $\frac{1}{2}$" = 1'–0"

NOTE: REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS.



SECTION 16 –

SCALE: $\frac{1}{2}$" = 1'–0"

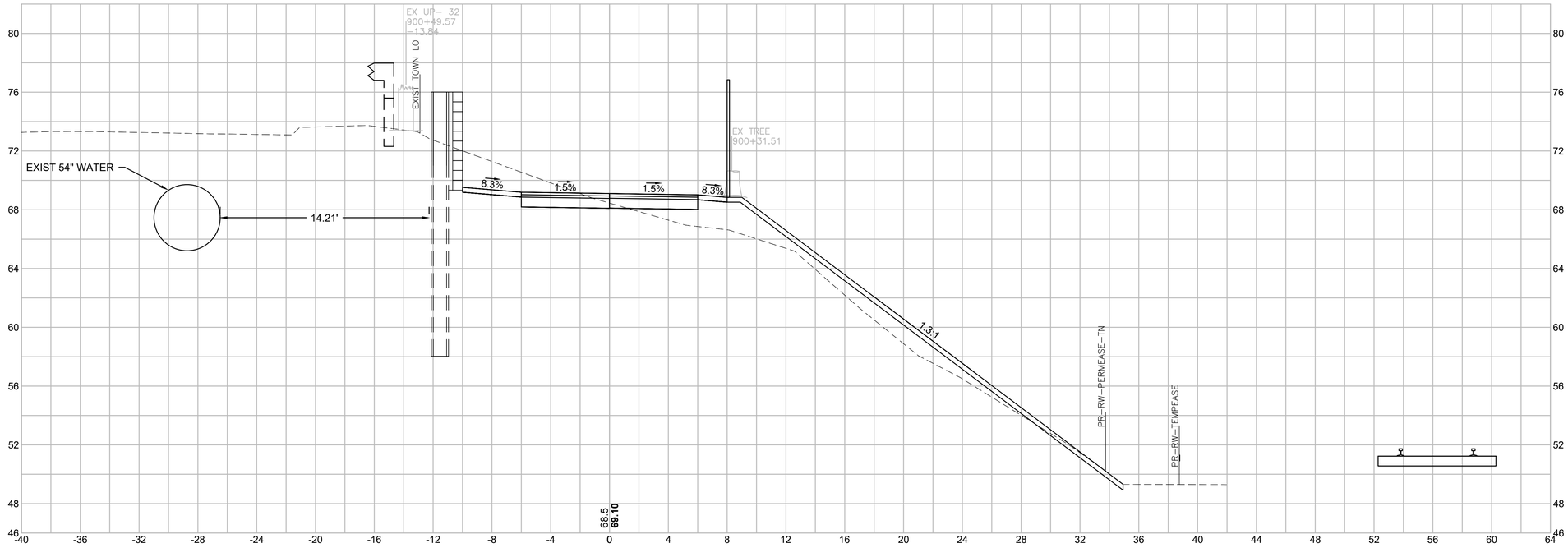
NOTES:
1. LONGITUDINAL REINFORCEMENT SHALL END 2" CLEAR OF EXPANSION JOINT.
2. 'A' – PREFORMED FILLER (IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATIONS M9.14.0).
   'B' – PREFORMED FILLER (IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATIONS M3.05.5).
3. FILLER MATERIAL SHALL BE FASTENED SECURELY TO ONE SIDE OF JOINT.

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	122	186
PROJECT FILE NO.	609204		

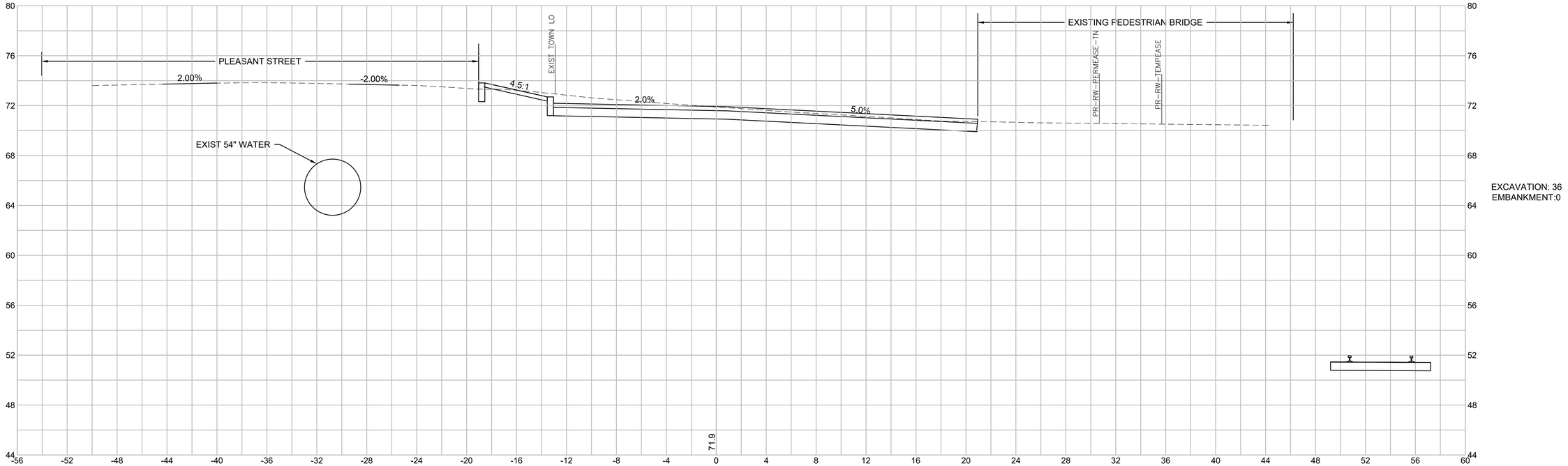
CROSS SECTIONS

900+50



EXCAVATION: 39
EMBANKMENT:27

900+00



EXCAVATION: 36
EMBANKMENT:0

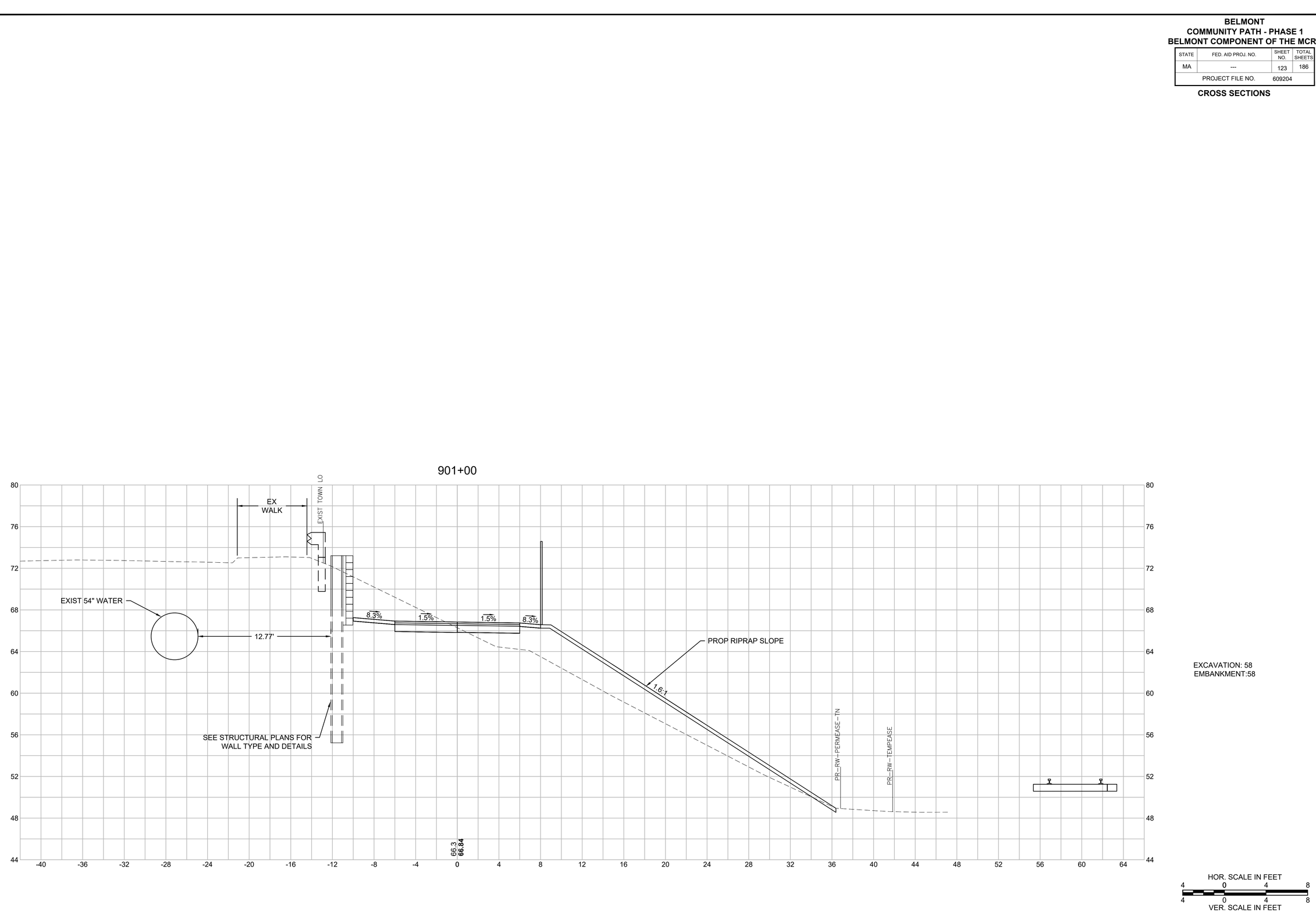
HOR. SCALE IN FEET
4 0 4 8
VER. SCALE IN FEET
4 0 4 8

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609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:32 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	123	186
PROJECT FILE NO.	609204		

CROSS SECTIONS



EXCAVATION: 58
EMBANKMENT:58

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

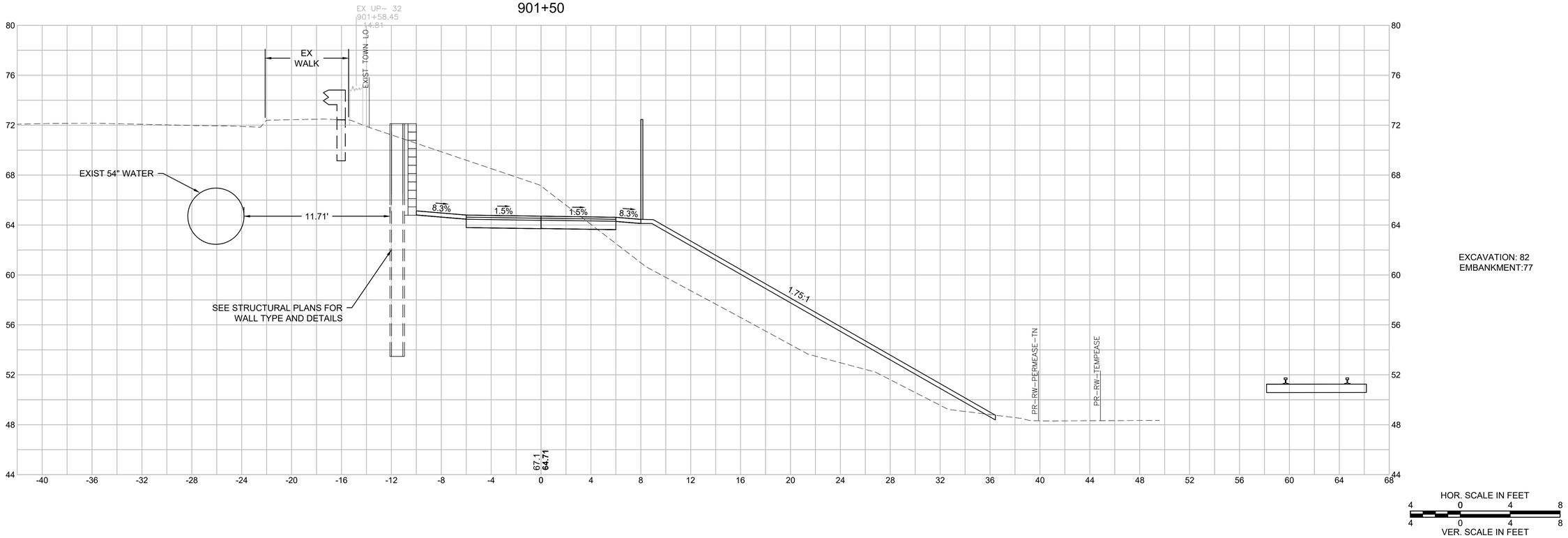
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	124	186
PROJECT FILE NO.	609204		

CROSS SECTIONS



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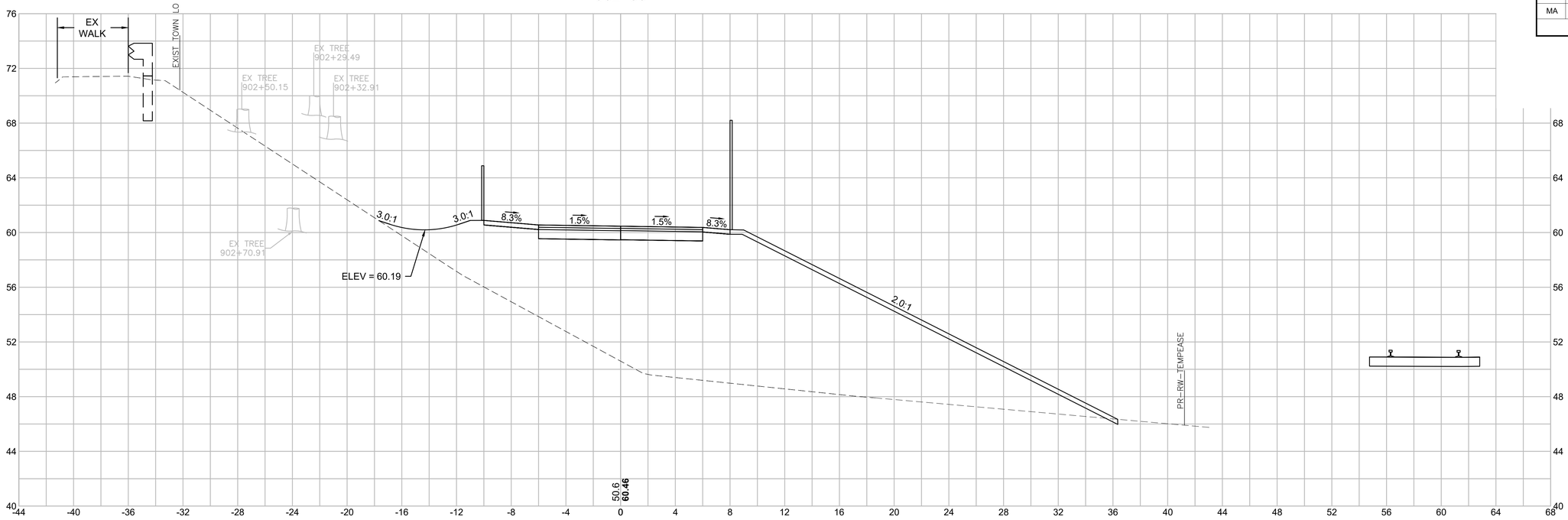
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	125	186
PROJECT FILE NO.	609204		

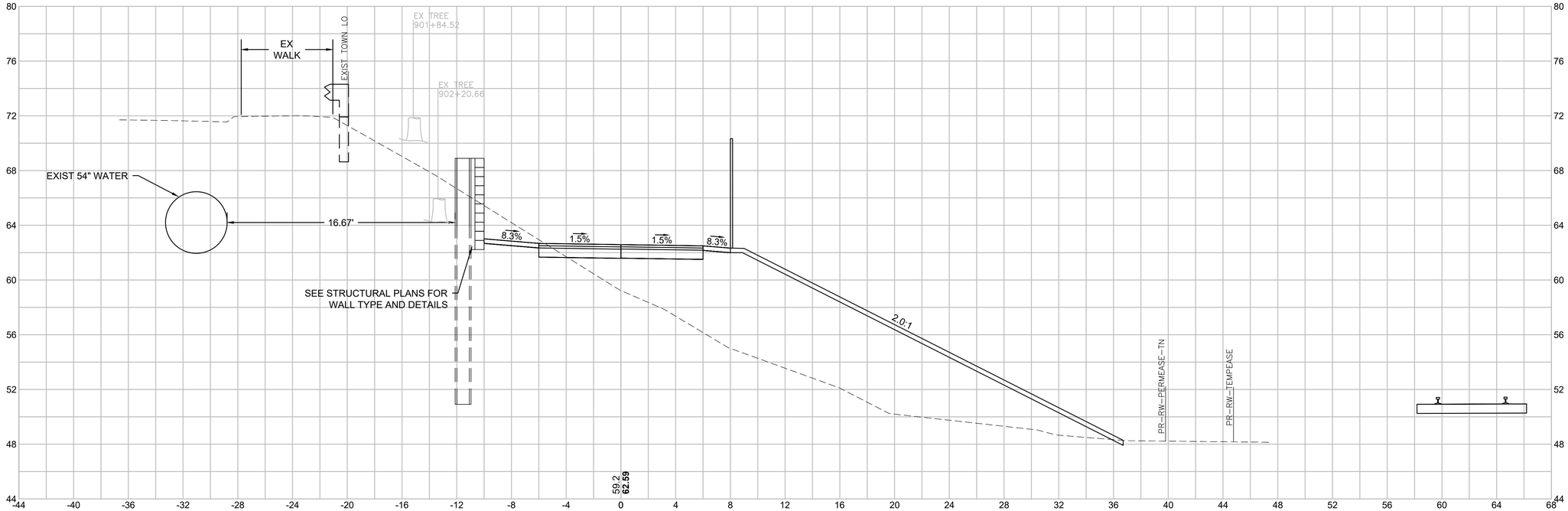
CROSS SECTIONS

902+50



EXCAVATION: #
EMBANKMENT:319

902+00



EXCAVATION: 30
EMBANKMENT:169

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

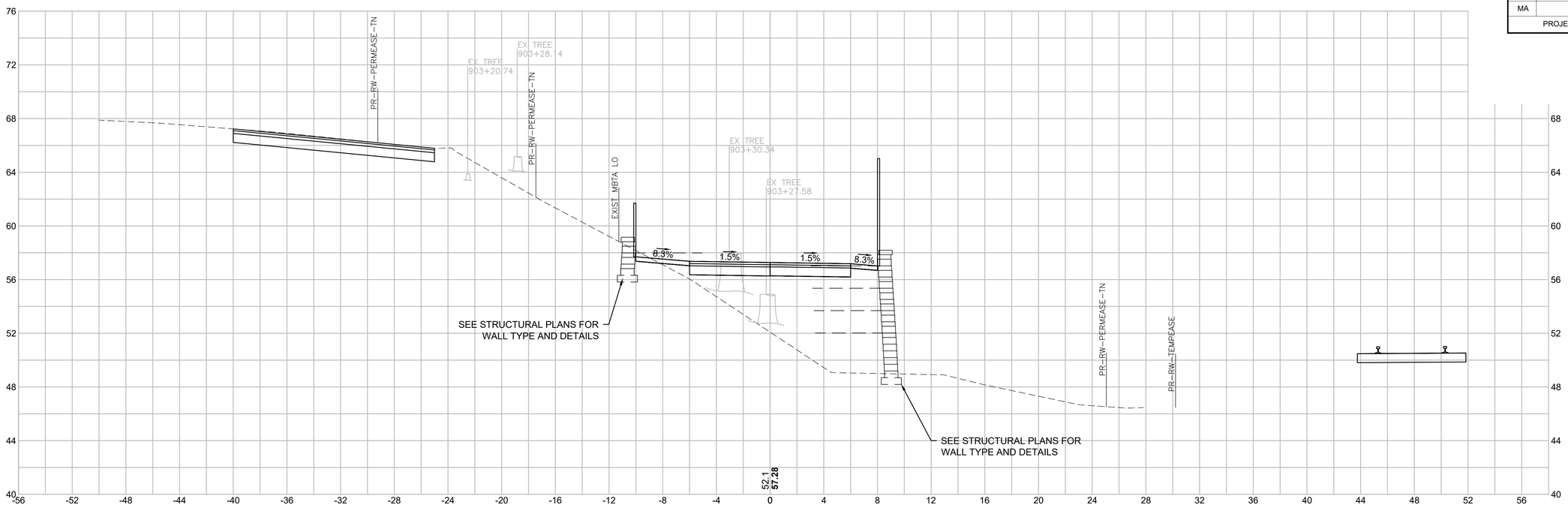
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609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:33 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	126	186
PROJECT FILE NO.	609204		

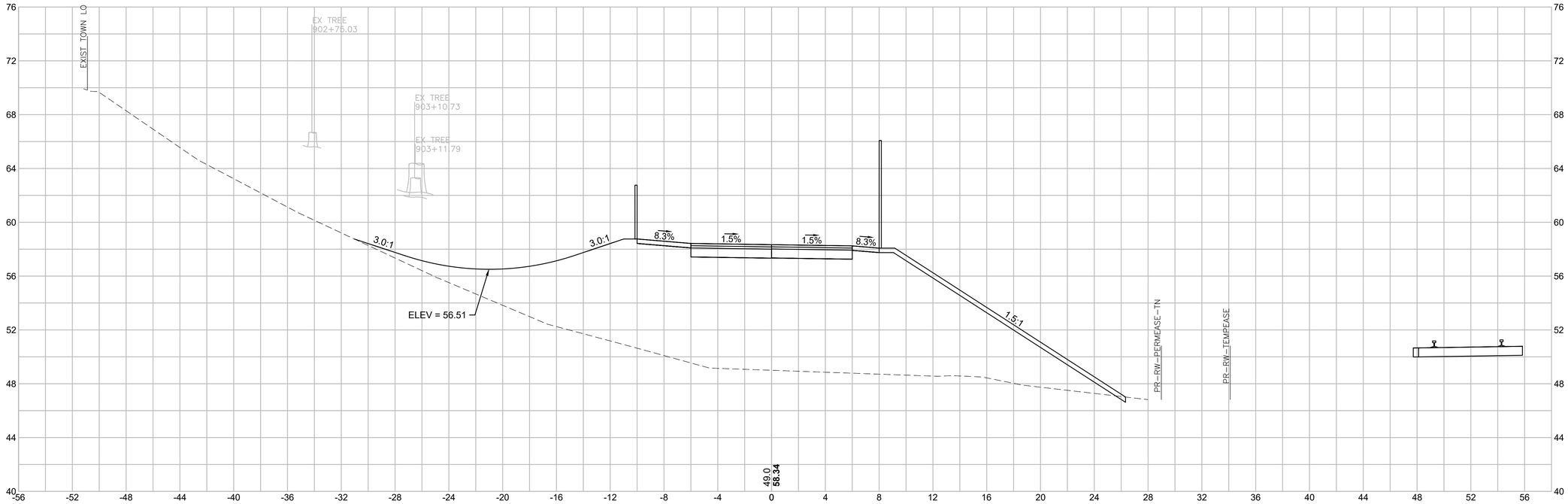
CROSS SECTIONS

903+25



EXCAVATION: 4
EMBANKMENT:134

903+00



EXCAVATION: 0
EMBANKMENT:297

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

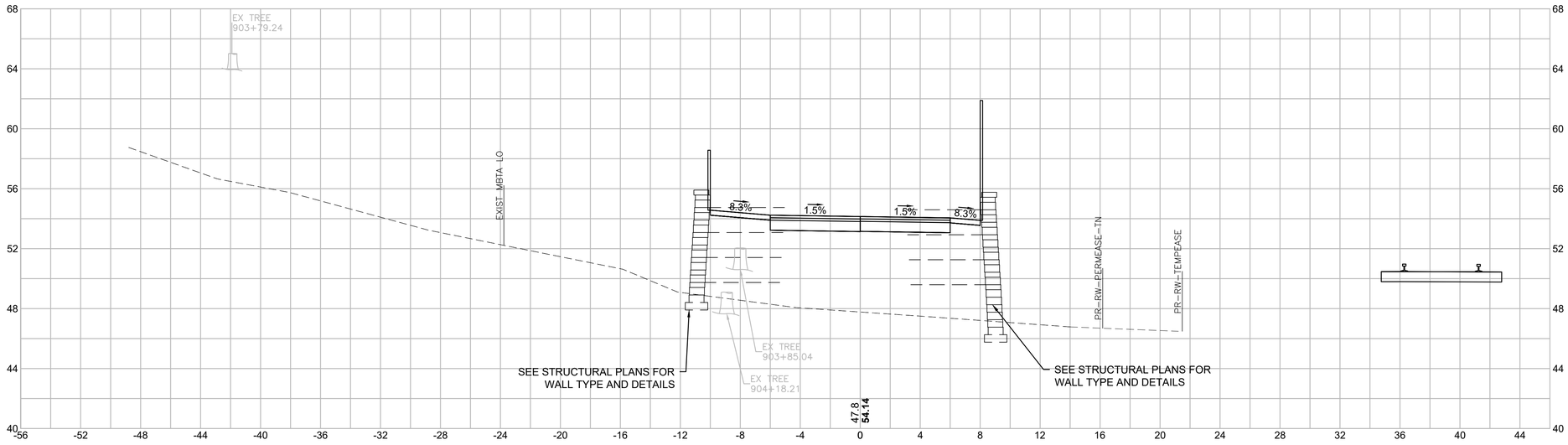
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609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:33 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	127	186
PROJECT FILE NO.	609204		

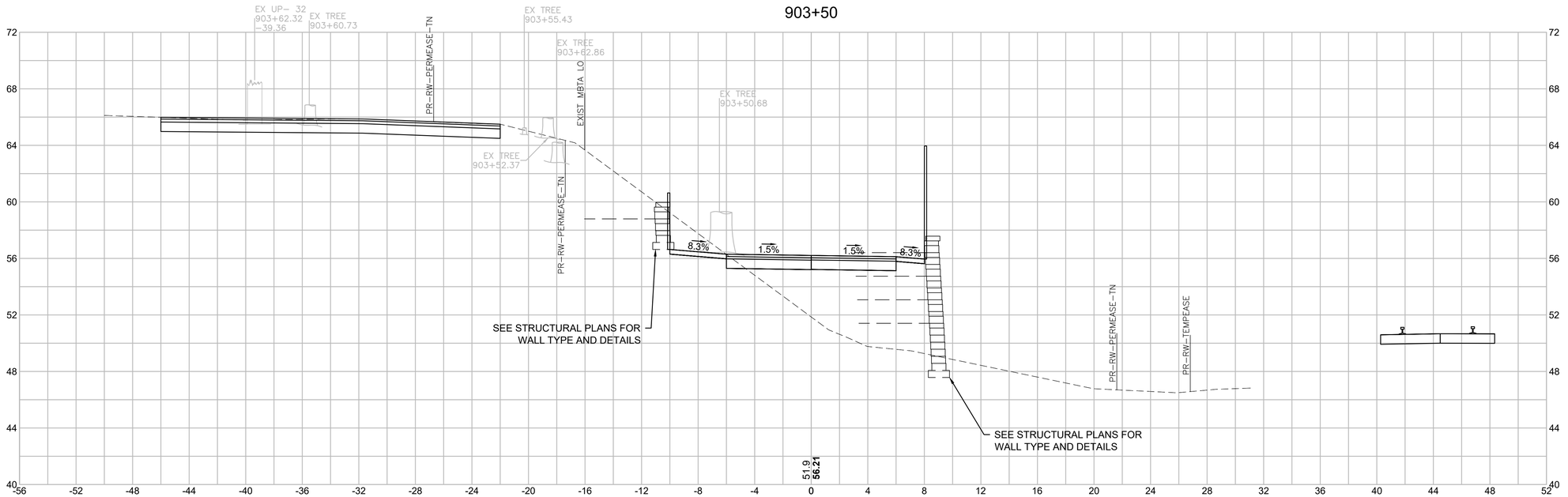
CROSS SECTIONS

904+00



EXCAVATION: 3
EMBANKMENT:103

903+50



EXCAVATION: 10
EMBANKMENT:58

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

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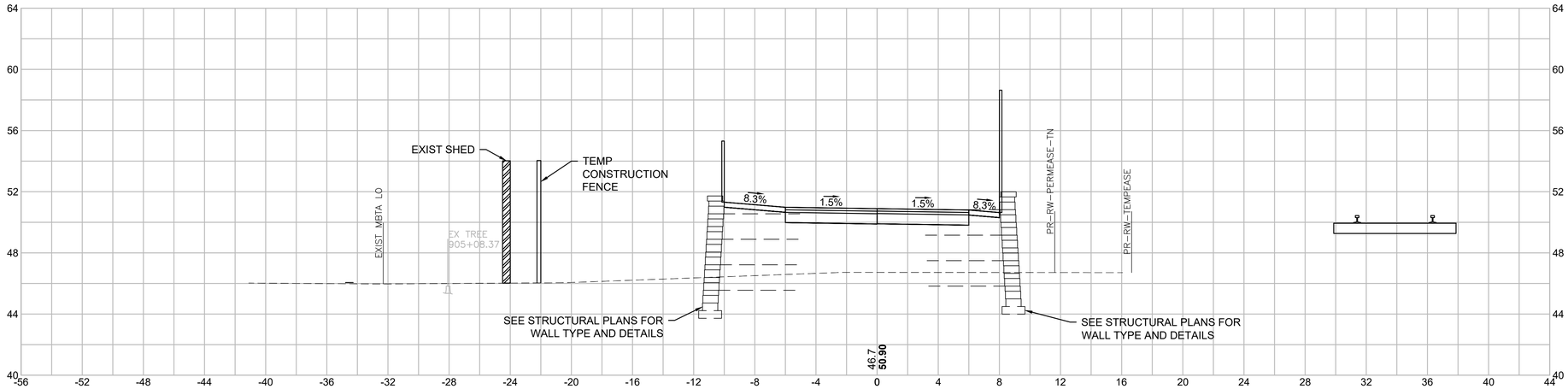
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	128	186
PROJECT FILE NO.	609204		

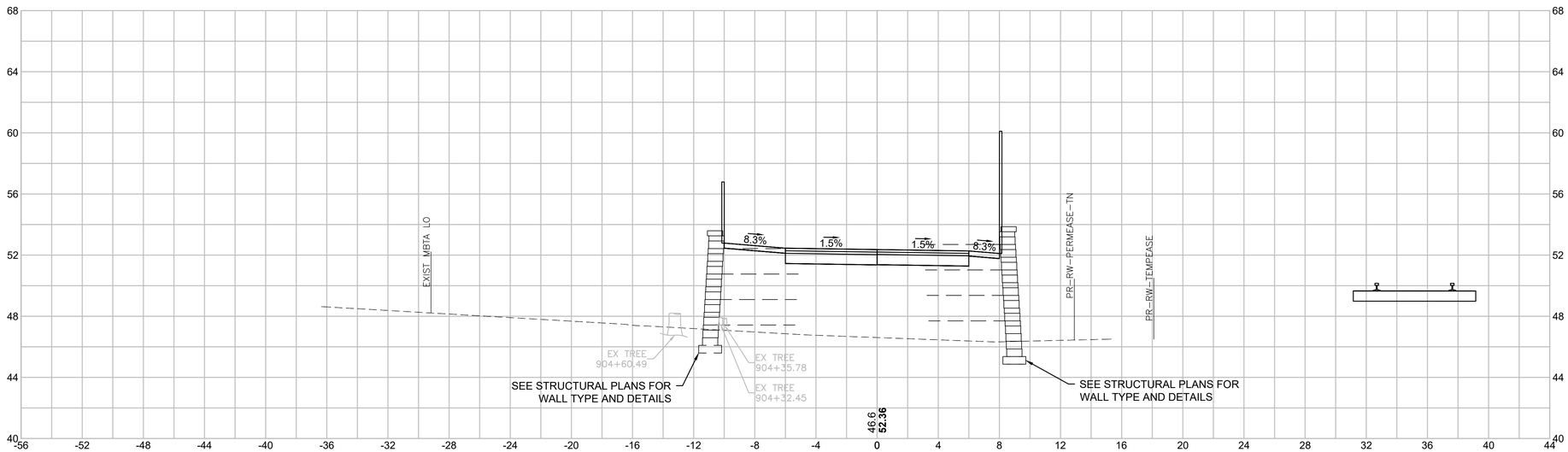
CROSS SECTIONS

905+00



EXCAVATION: 6
EMBANKMENT:77

904+50



EXCAVATION: 4
EMBANKMENT:92

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:35 PM

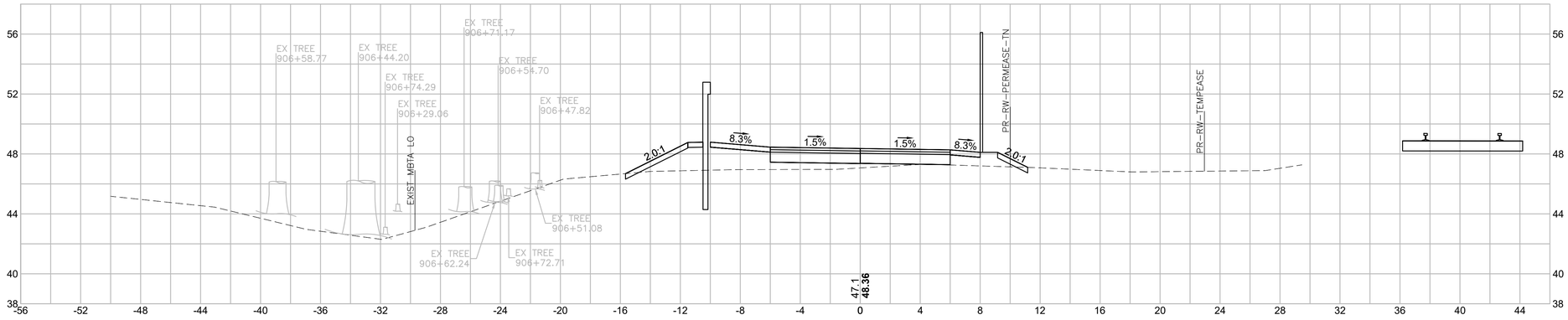
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	129	186
PROJECT FILE NO.	609204		

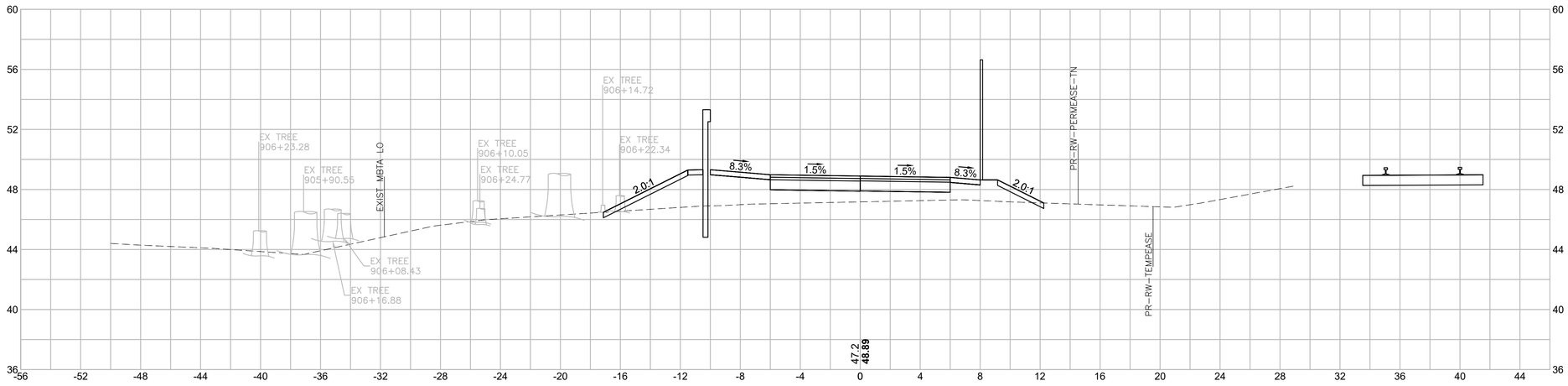
CROSS SECTIONS

906+50



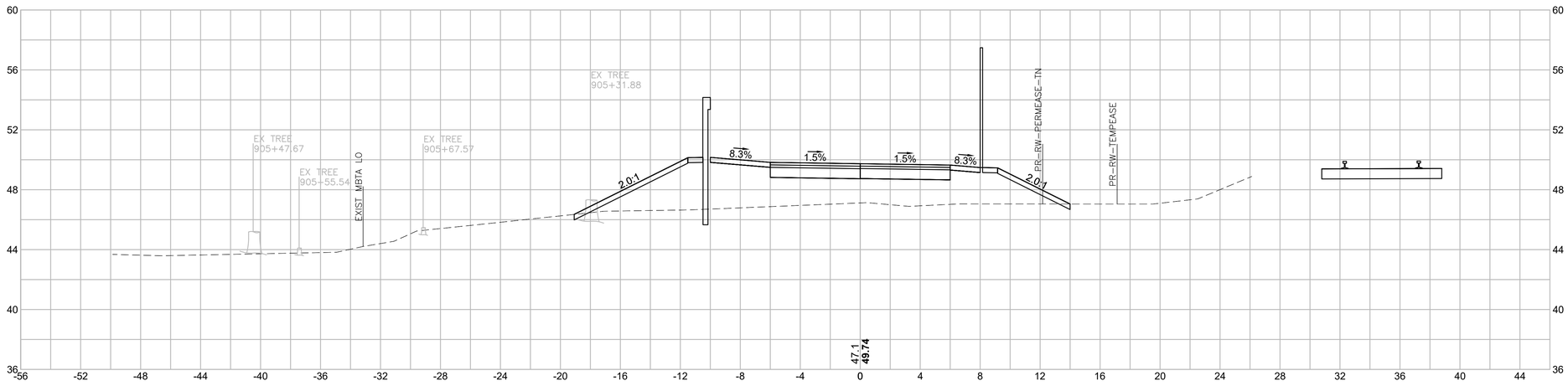
EXCAVATION:0
EMBANKMENT:33

906+00



EXCAVATION: 0
EMBANKMENT:29

905+50



EXCAVATION: 0
EMBANKMENT:58

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:35 PM

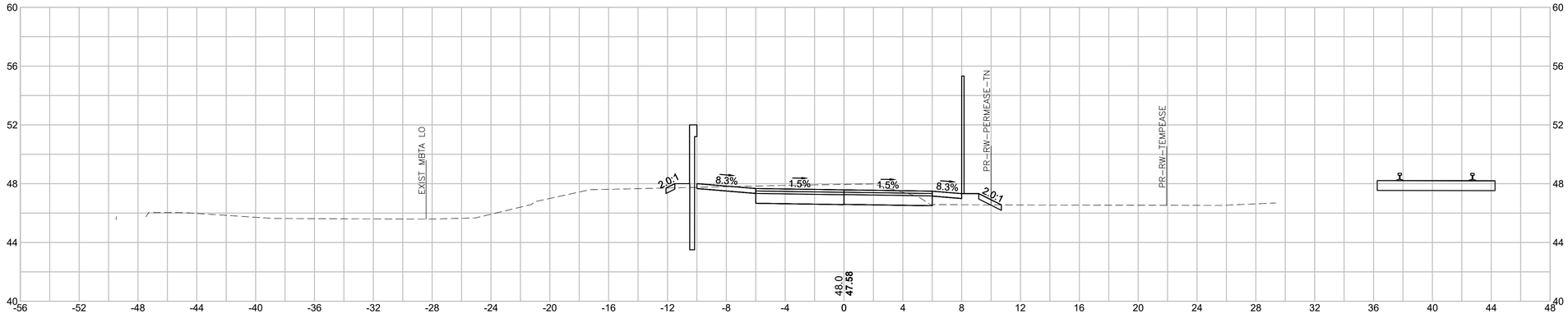
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

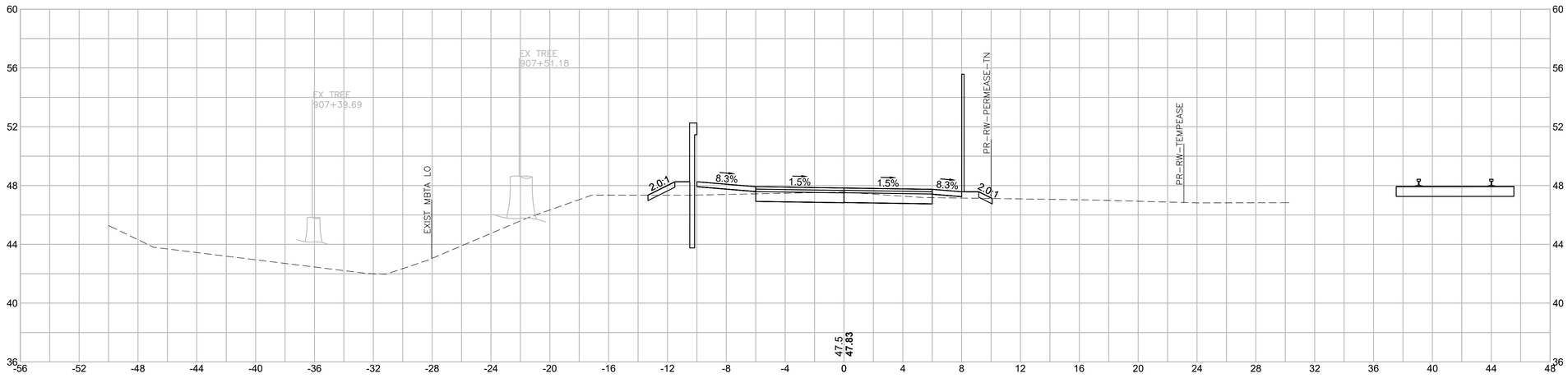
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	130	186
PROJECT FILE NO.	609204		

CROSS SECTIONS

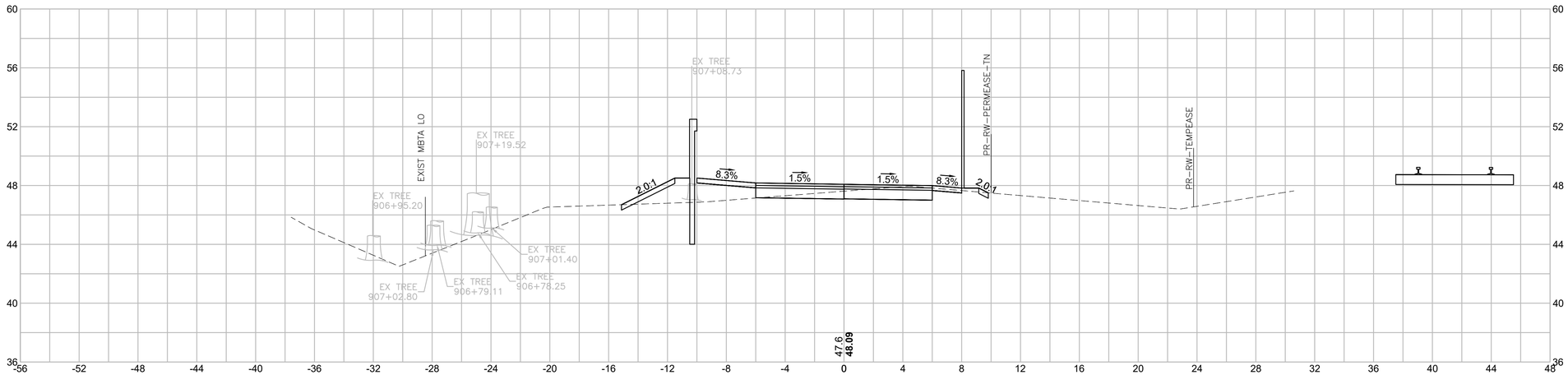
908+00



907+50



907+00



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

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 2/7/2025 1:36 PM

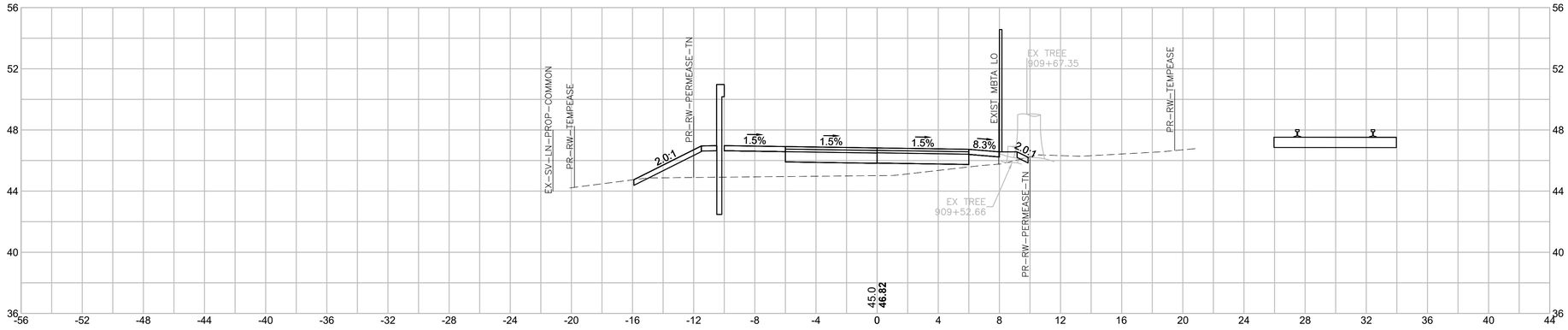
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	131	186
PROJECT FILE NO.	609204		

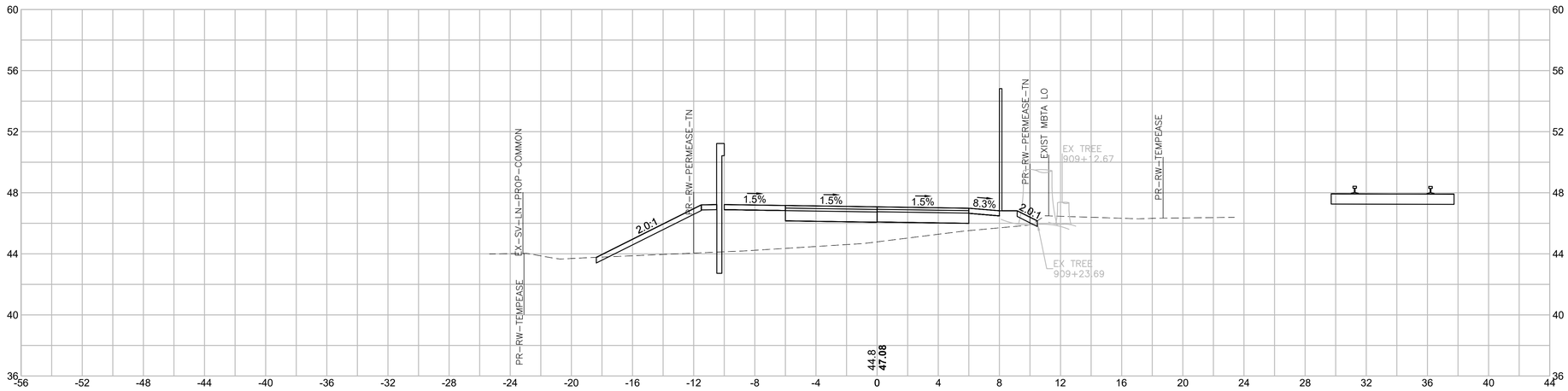
CROSS SECTIONS

909+50



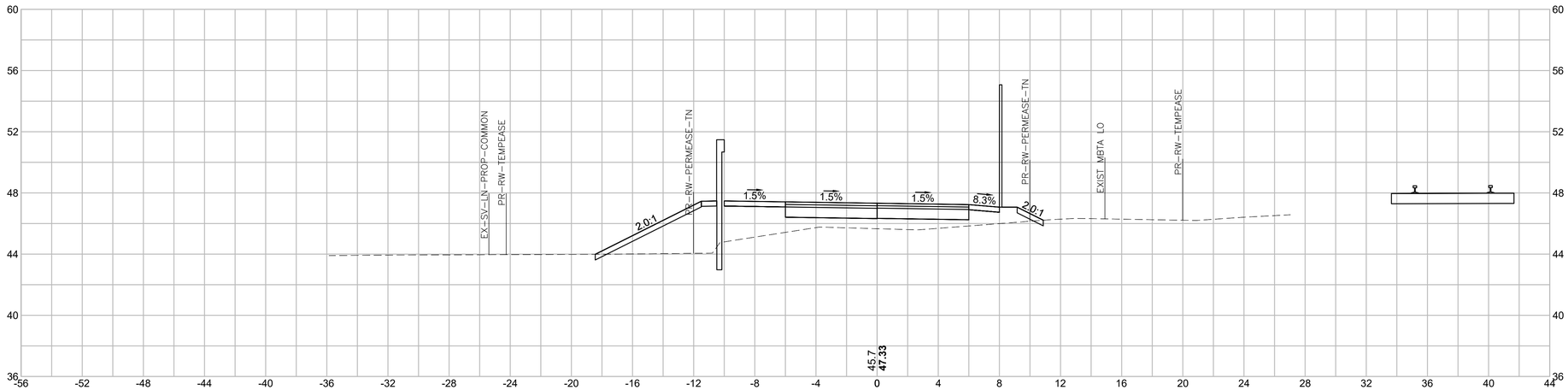
EXCAVATION: 0
EMBANKMENT:22

909+00



EXCAVATION: 0
EMBANKMENT:41

908+50



EXCAVATION: 0
EMBANKMENT:32

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

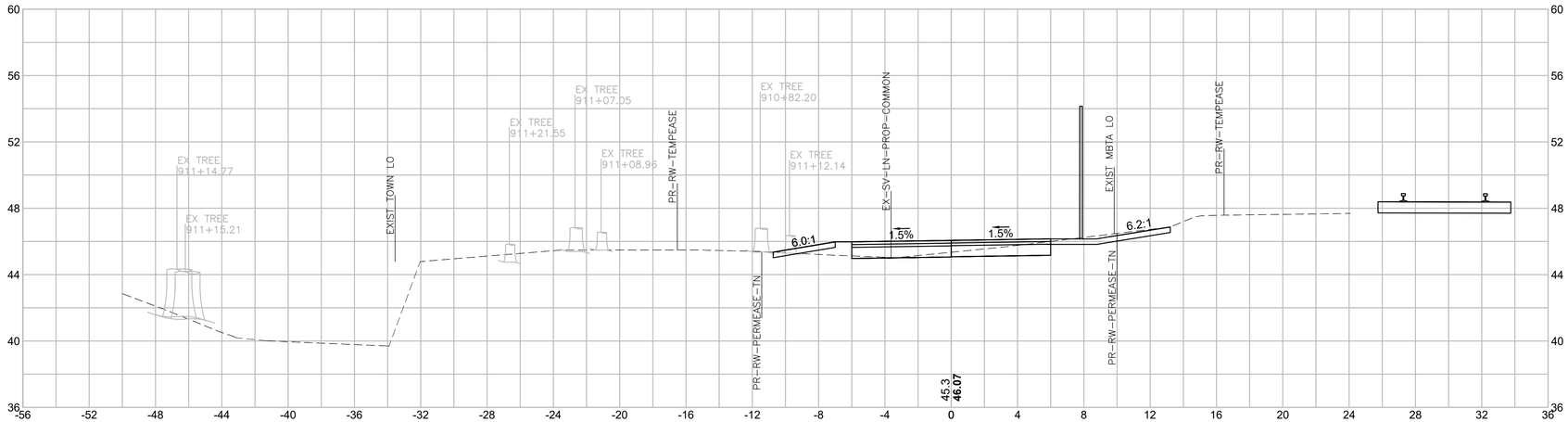
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609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:36 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	132	186
PROJECT FILE NO.	609204		

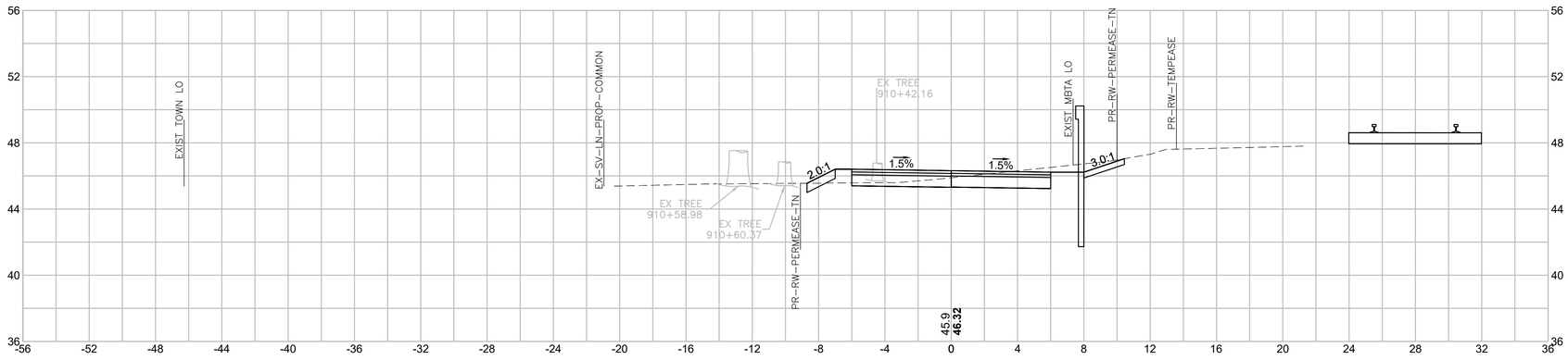
CROSS SECTIONS

911+00



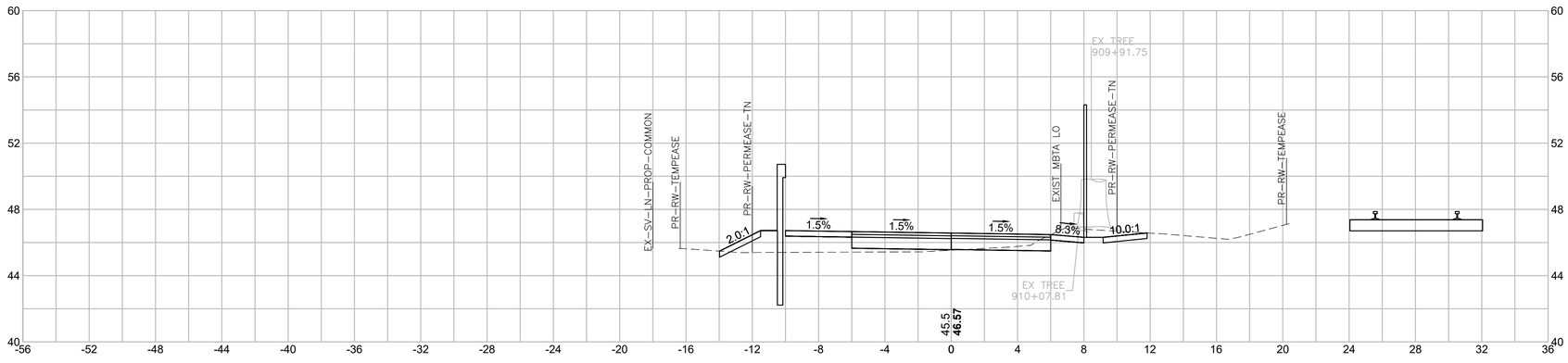
EXCAVATION: 2
EMBANKMENT:8

910+50



EXCAVATION: 4
EMBANKMENT:7

910+00



EXCAVATION: 3
EMBANKMENT:7

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

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:37 PM

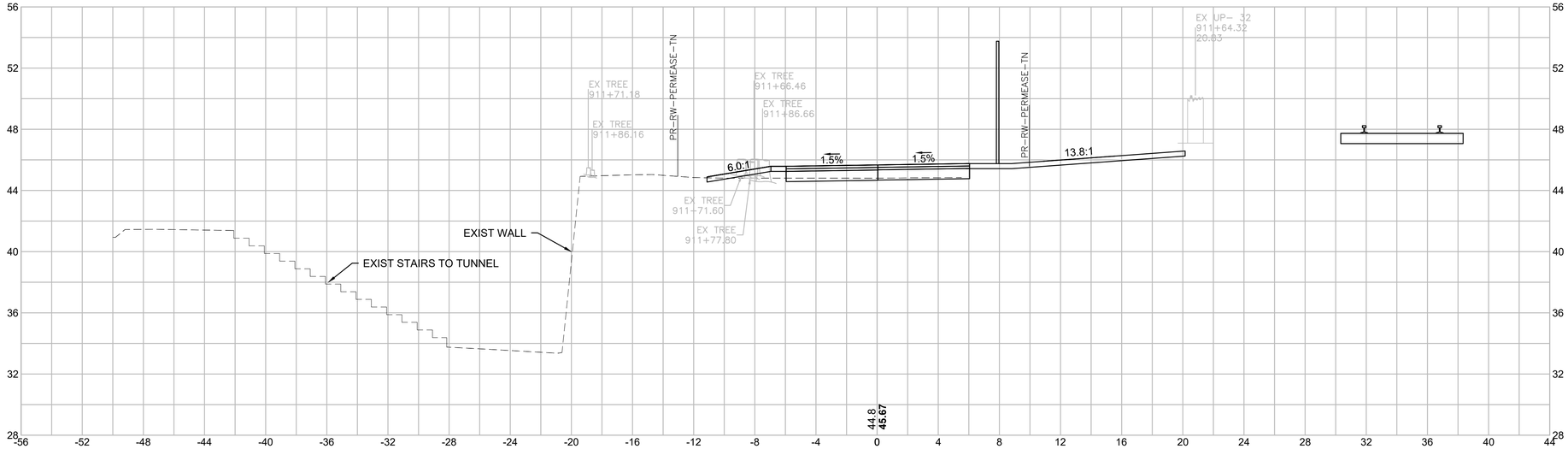
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	133	186
PROJECT FILE NO.	609204		

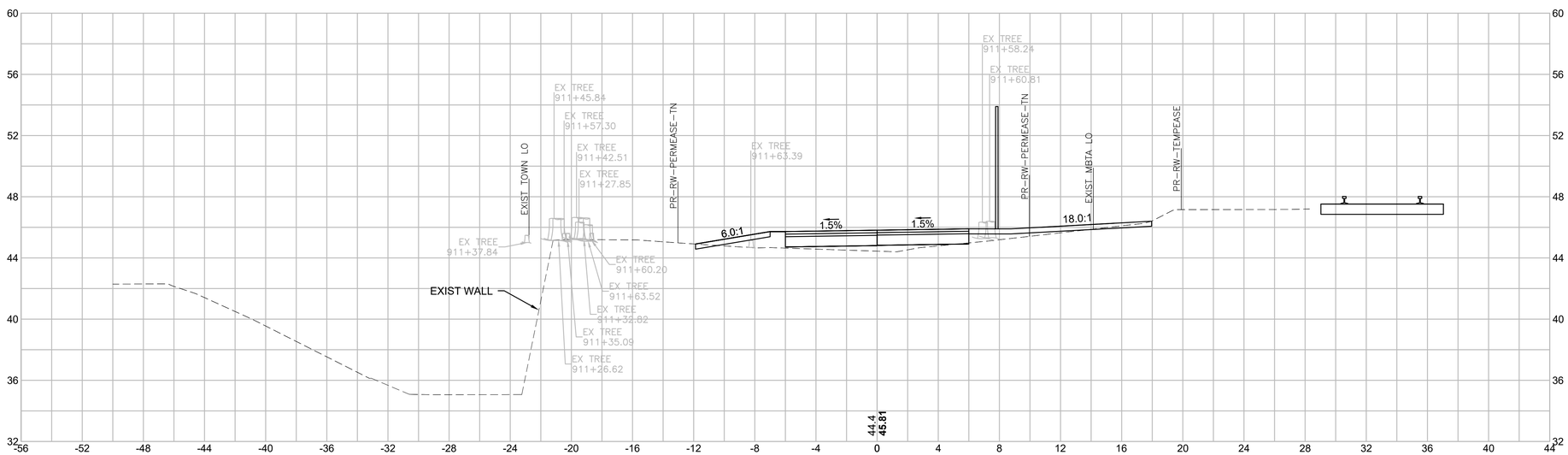
CROSS SECTIONS

911+78



EXCAVATION: #
EMBANKMENT:#

911+50



EXCAVATION: 1
EMBANKMENT:7

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:37 PM

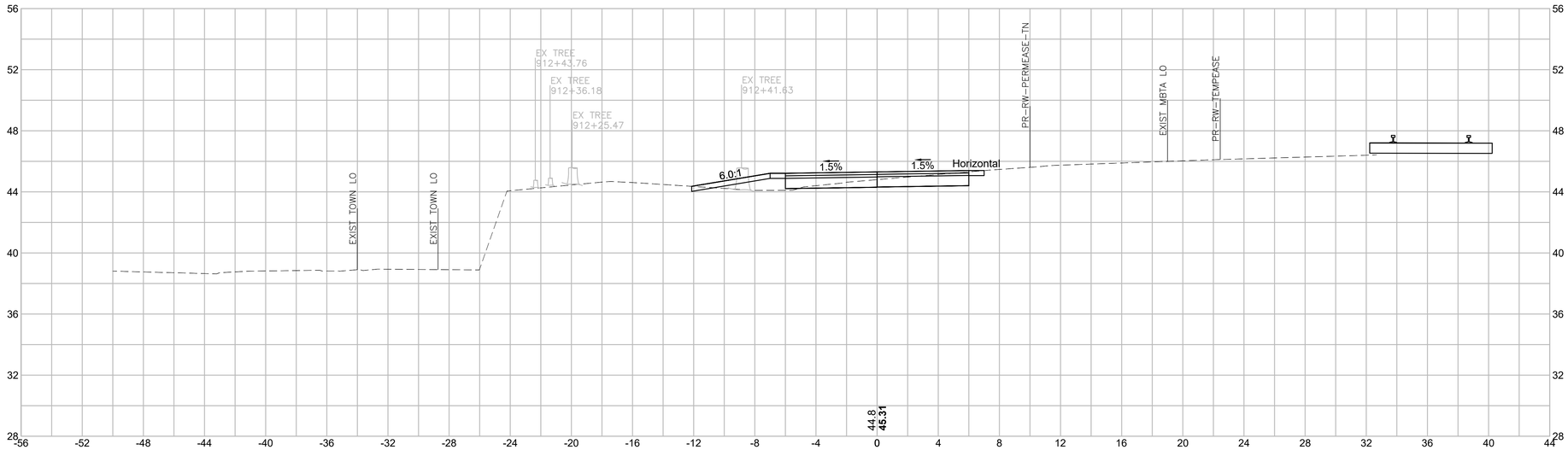
609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:37 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	134	186
PROJECT FILE NO.	609204		

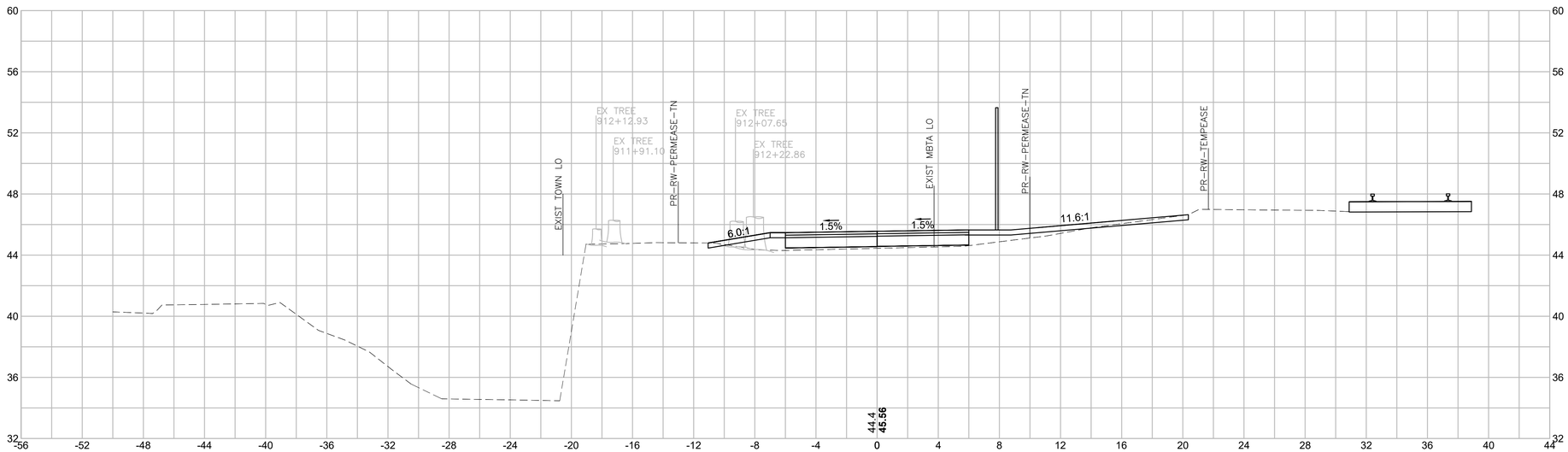
CROSS SECTIONS

912+50



EXCAVATION: 7
EMBANKMENT:2

912+00



EXCAVATION: 2
EMBANKMENT:6

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:38 PM

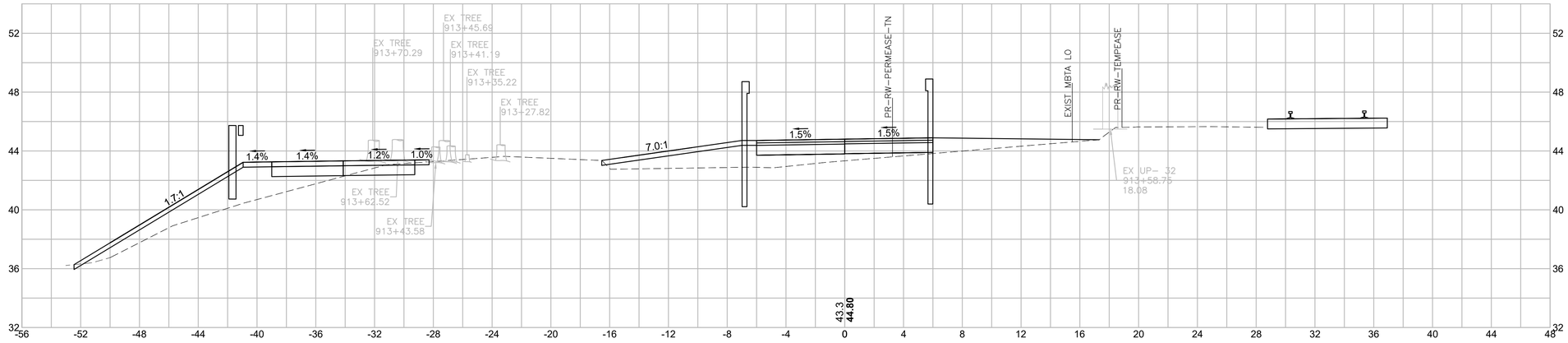
609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:38 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	135	186
PROJECT FILE NO.	609204		

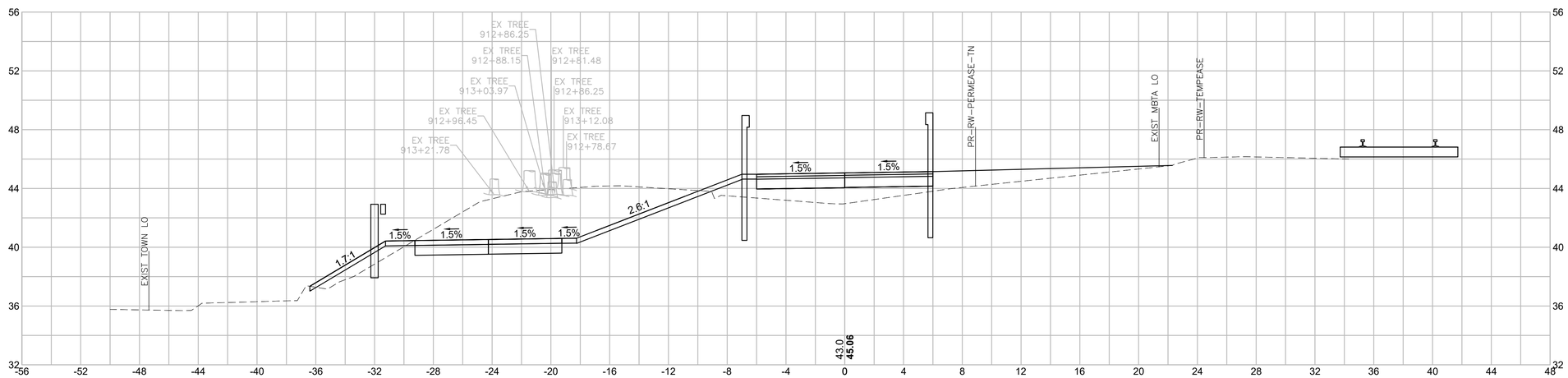
CROSS SECTIONS

913+50



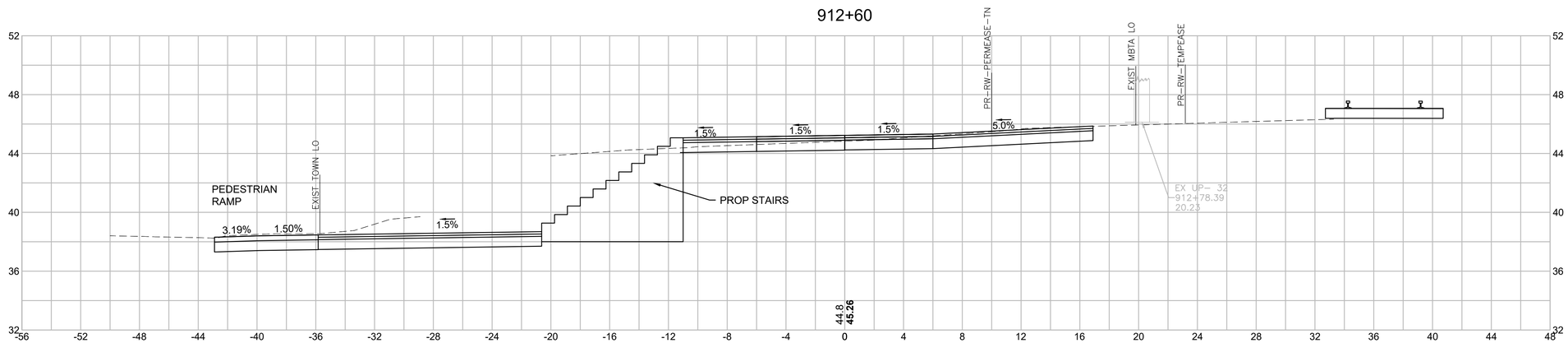
EXCAVATION: 6
EMBANKMENT:35

913+00



EXCAVATION: 57
EMBANKMENT:15

912+60



EXCAVATION: 124
EMBANKMENT:0

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:38 PM

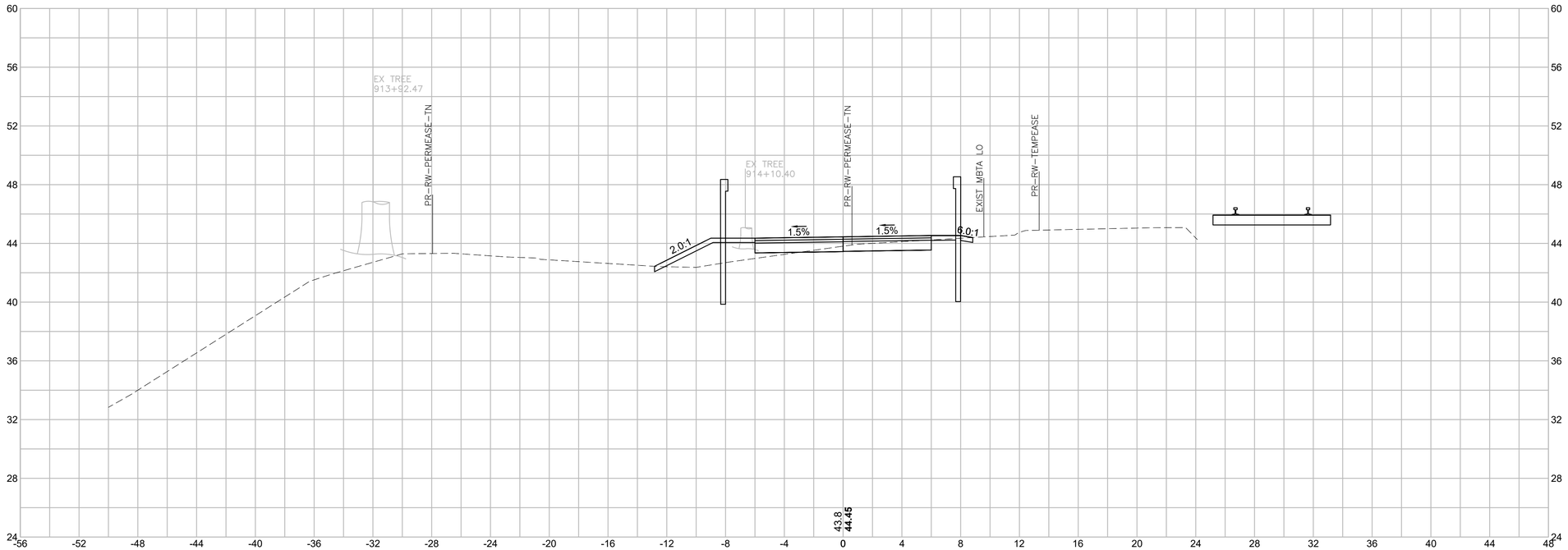
609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:38 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	136	186
PROJECT FILE NO.	609204		

CROSS SECTIONS

914+00



EXCAVATION: 6
EMBANKMENT:7

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

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:39 PM

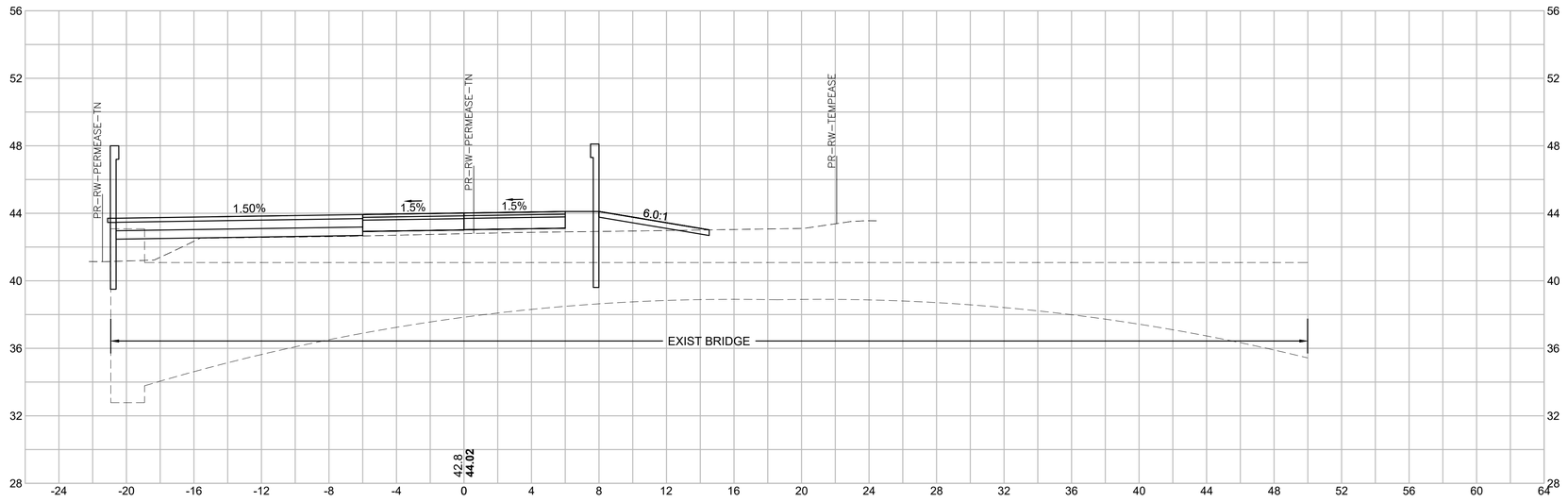
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	137	186
PROJECT FILE NO.	609204		

CROSS SECTIONS

914+50



EXCAVATION: 0
EMBANKMENT:16

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:39 PM

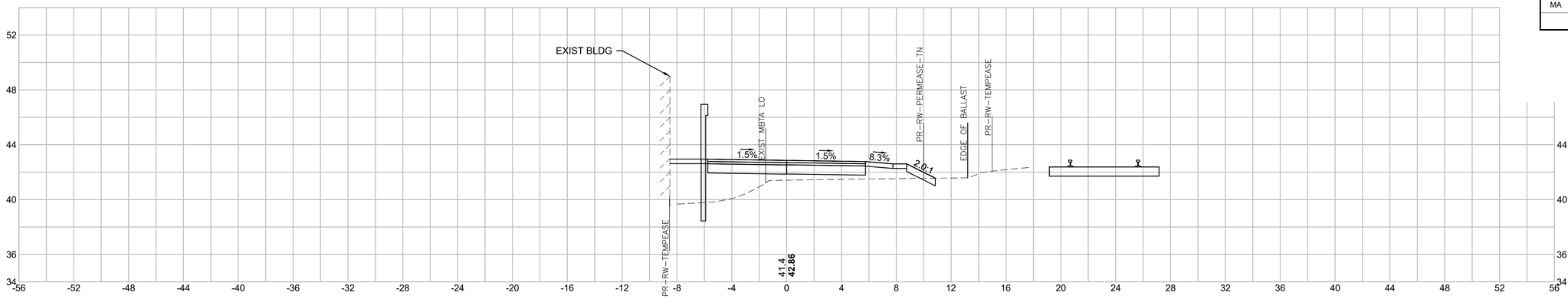
609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:39 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	138	186
PROJECT FILE NO.	609204		

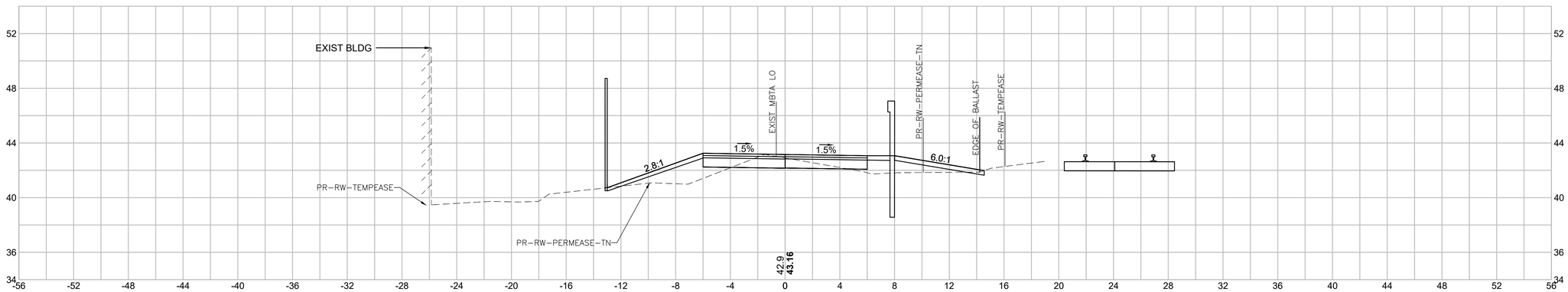
CROSS SECTIONS

915+85



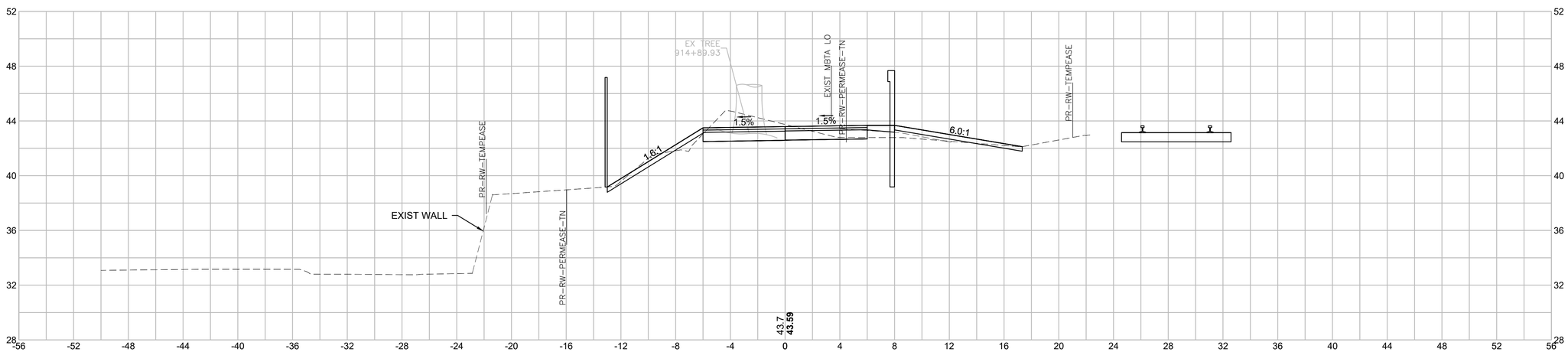
EXCAVATION: 2
EMBANKMENT: 19

915+50



EXCAVATION: 6
EMBANKMENT:10

915+00



EXCAVATION: 2
EMBANKMENT:2

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

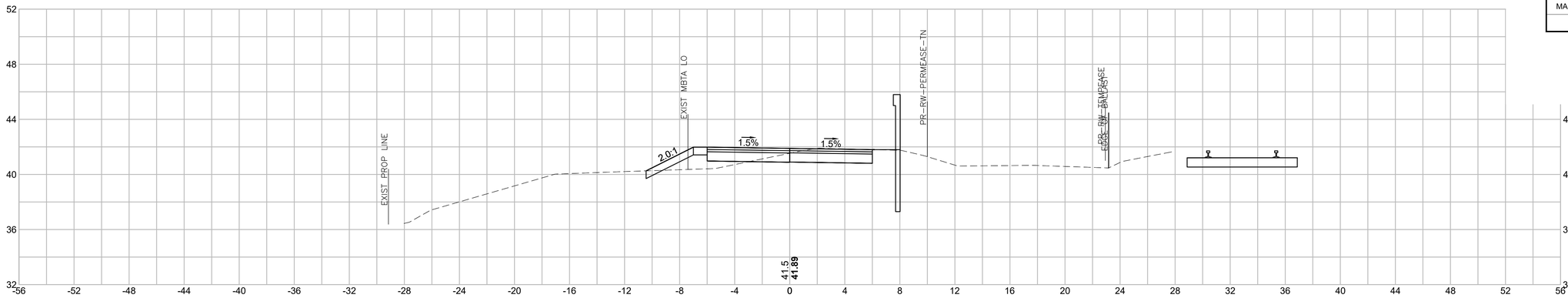
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609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:40 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	139	186
PROJECT FILE NO.	609204		

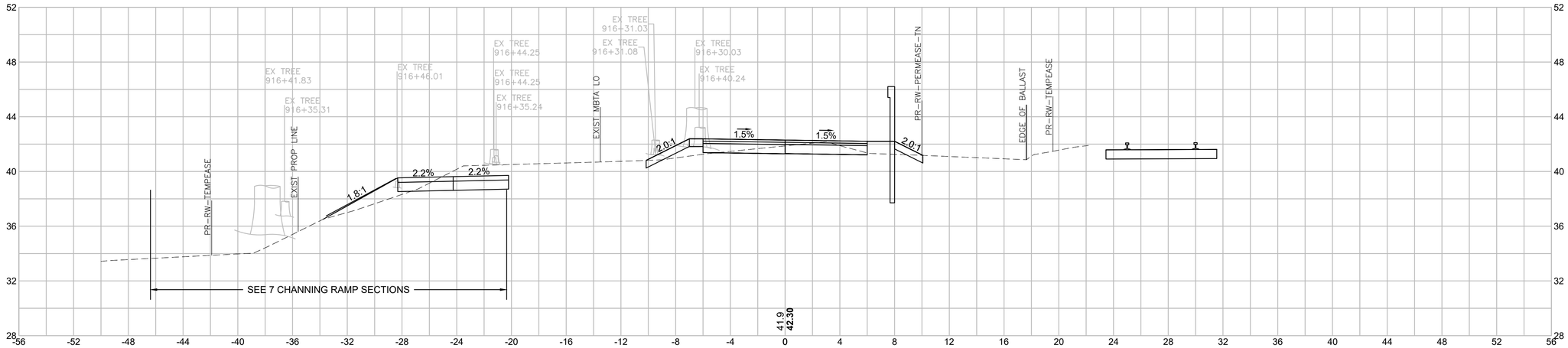
CROSS SECTIONS

917+00



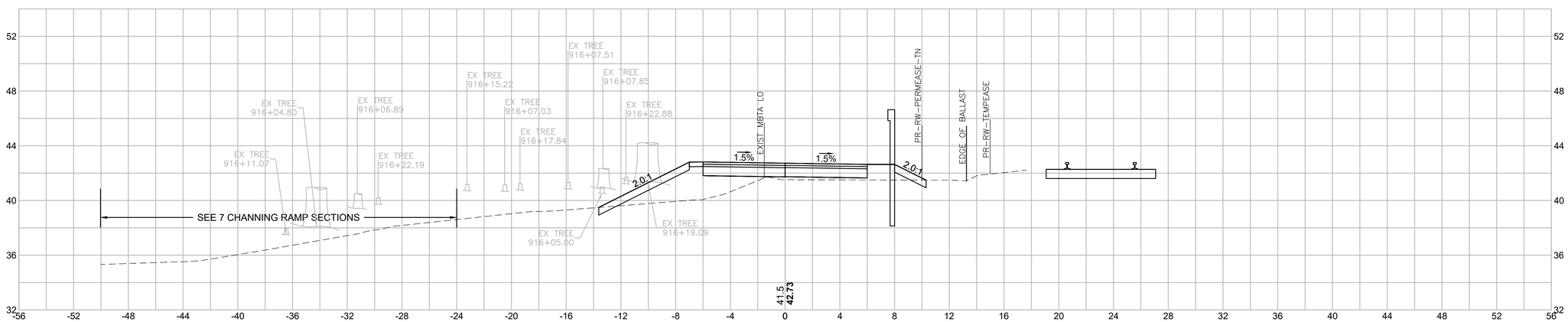
EXCAVATION: 3
EMBANKMENT:8

916+50



EXCAVATION: 7
EMBANKMENT:5

916+00



EXCAVATION: 3
EMBANKMENT:15

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

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 2/7/2025 1:40 PM

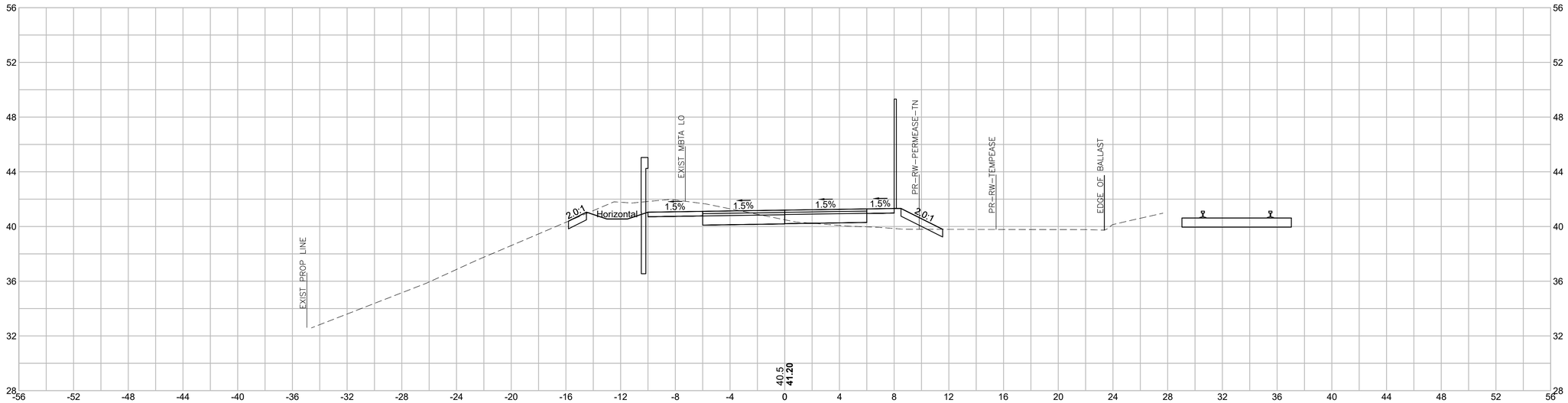
609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:40 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	140	186
PROJECT FILE NO.	609204		

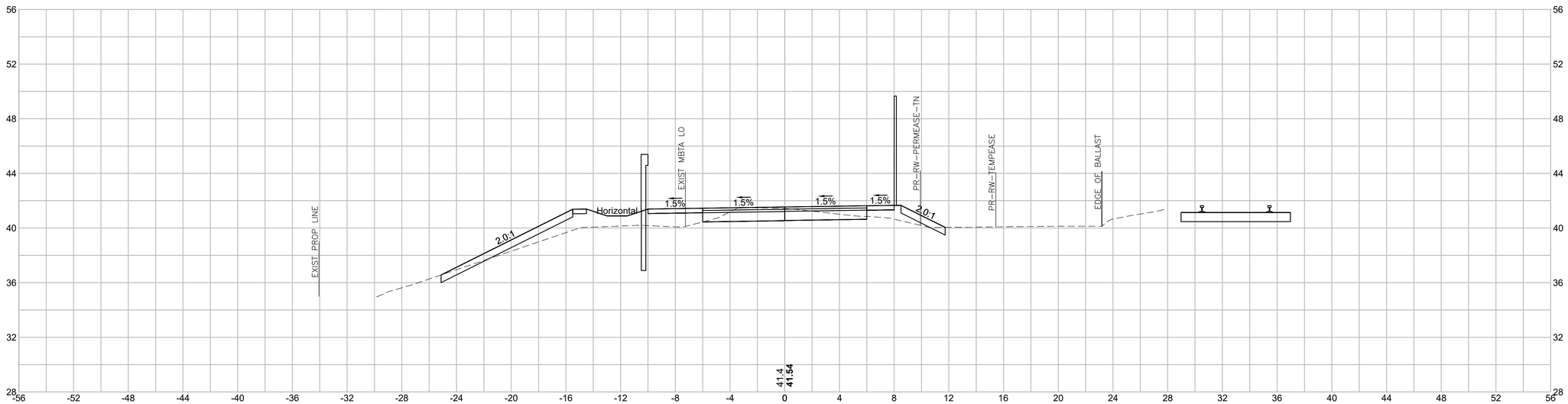
CROSS SECTIONS

918+00



EXCAVATION: 18
EMBANKMENT:4

917+50



EXCAVATION: 10
EMBANKMENT:14

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

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 2/7/2025 1:41 PM

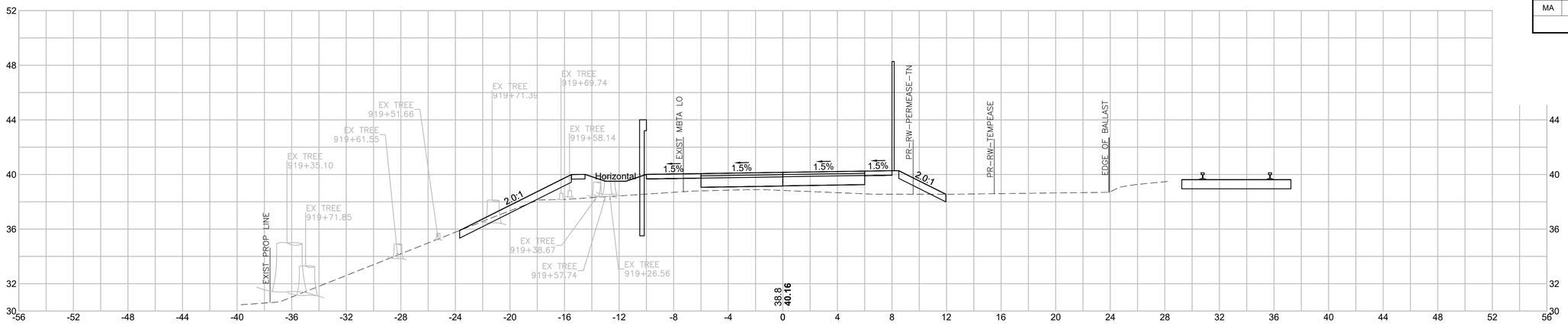
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	141	186
PROJECT FILE NO.	609204		

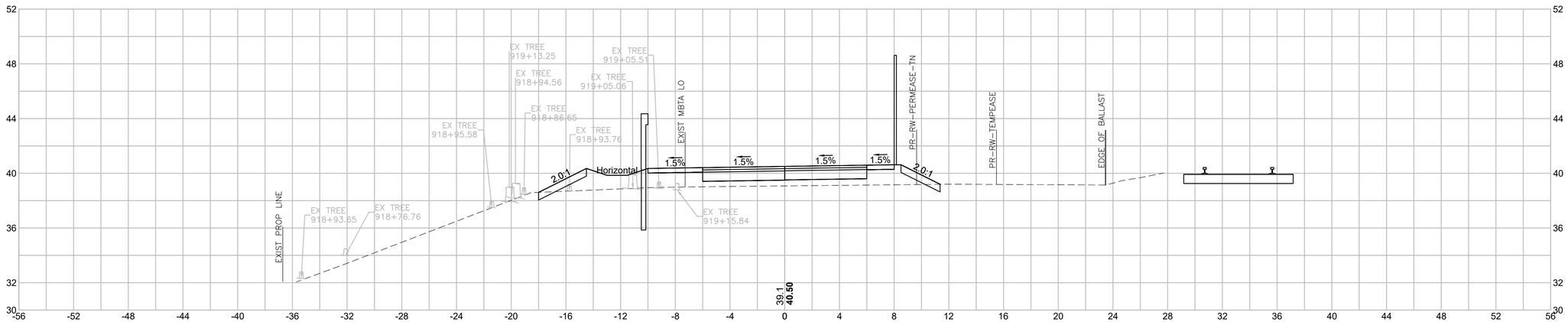
CROSS SECTIONS

919+50



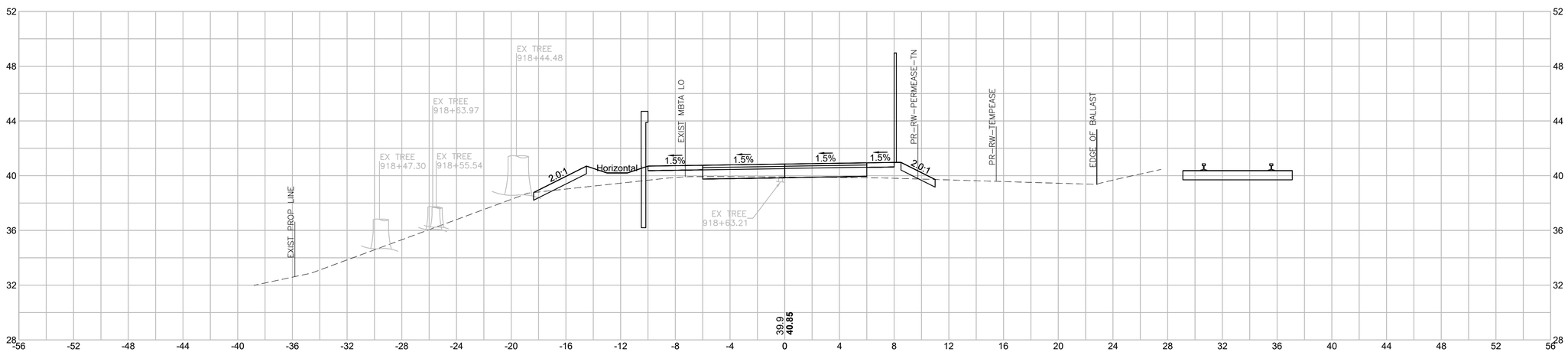
EXCAVATION: 3
EMBANKMENT:22

919+00



EXCAVATION: 2
EMBANKMENT:20

918+50



EXCAVATION: 3
EMBANKMENT:12

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

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:42 PM

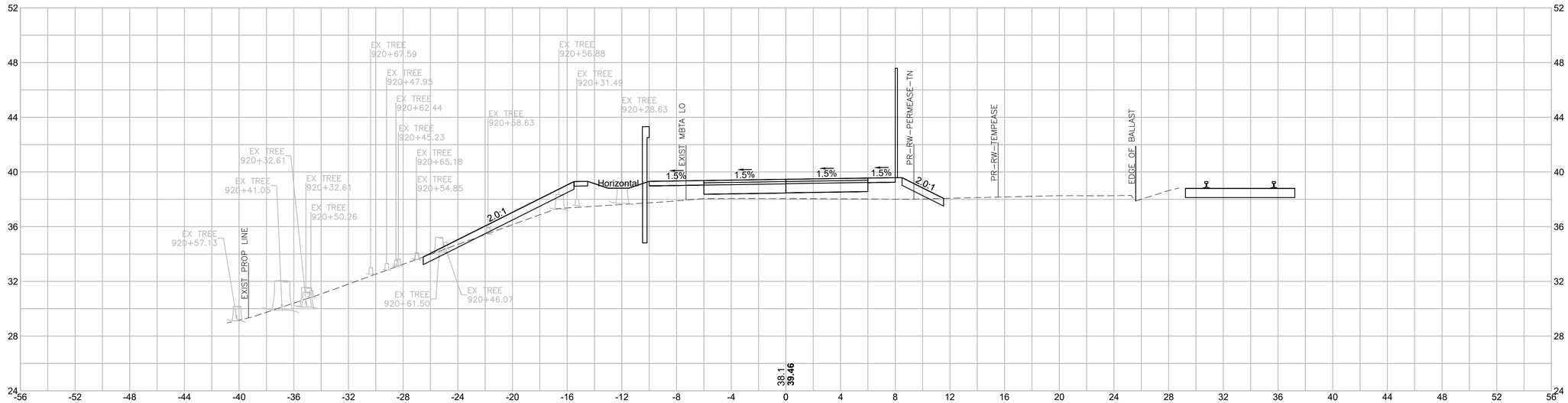
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	142	186
PROJECT FILE NO.	609204		

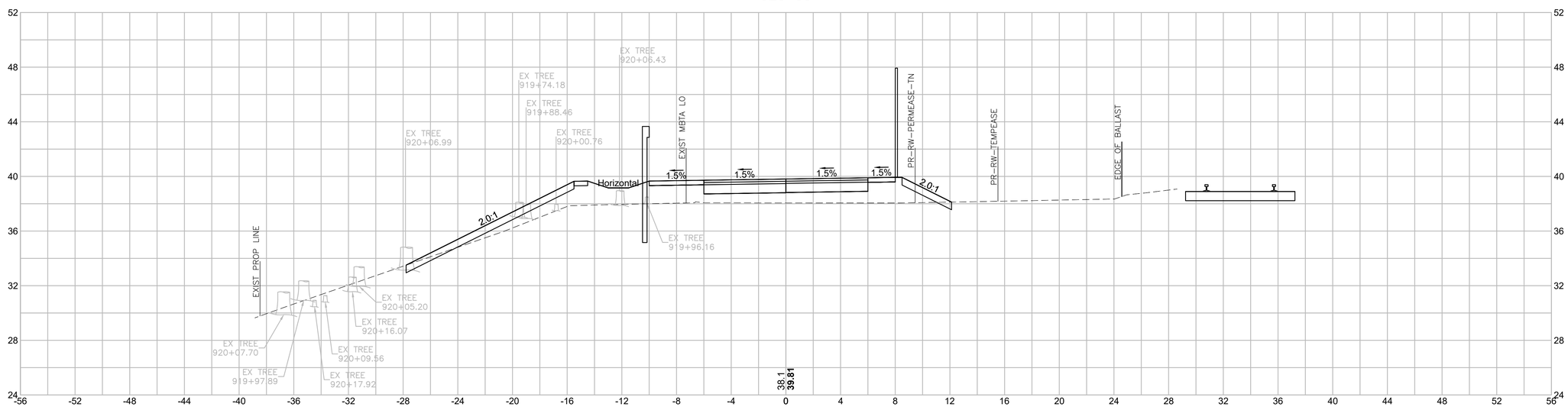
CROSS SECTIONS

920+50



EXCAVATION: 2
EMBANKMENT:25

920+00



EXCAVATION: 2
EMBANKMENT:32

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

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:42 PM

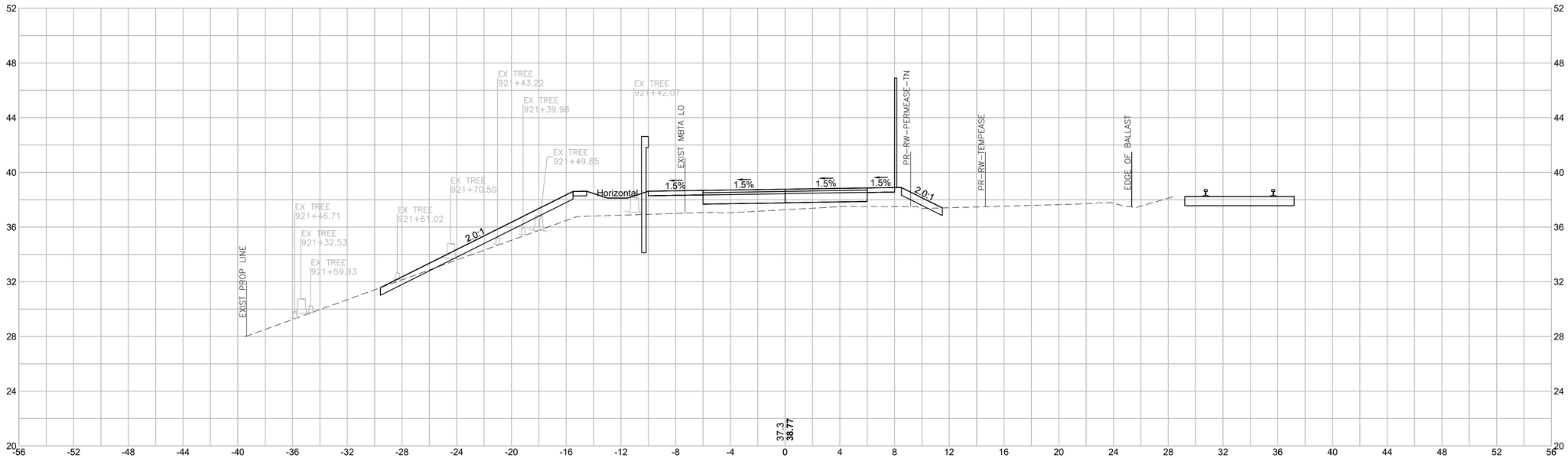
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	143	186
PROJECT FILE NO.	609204		

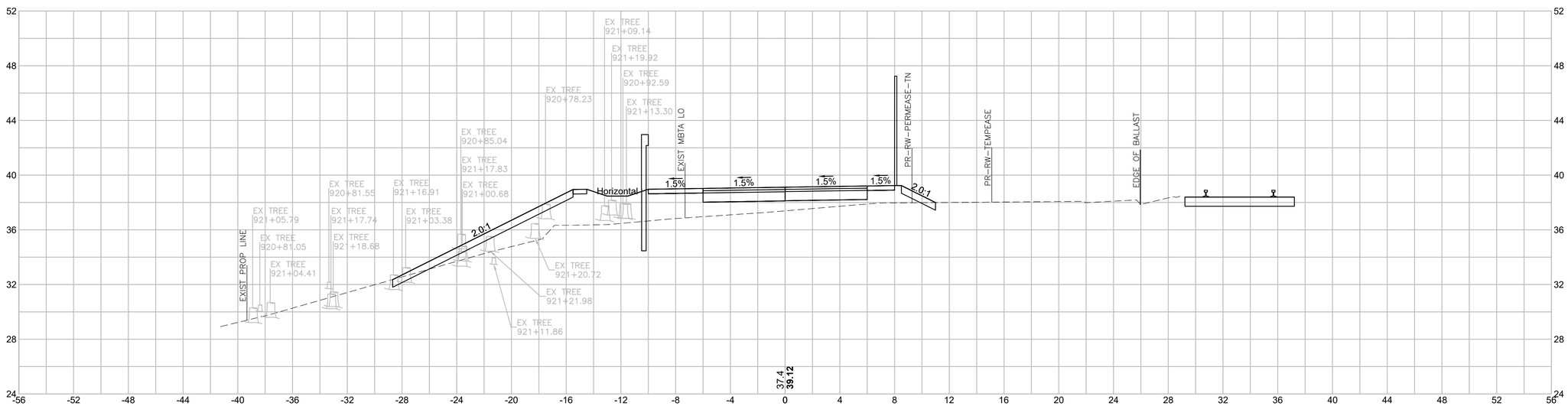
CROSS SECTIONS

921+50



EXCAVATION: 2
EMBANKMENT:29

921+00



EXCAVATION: 2
EMBANKMENT:40

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

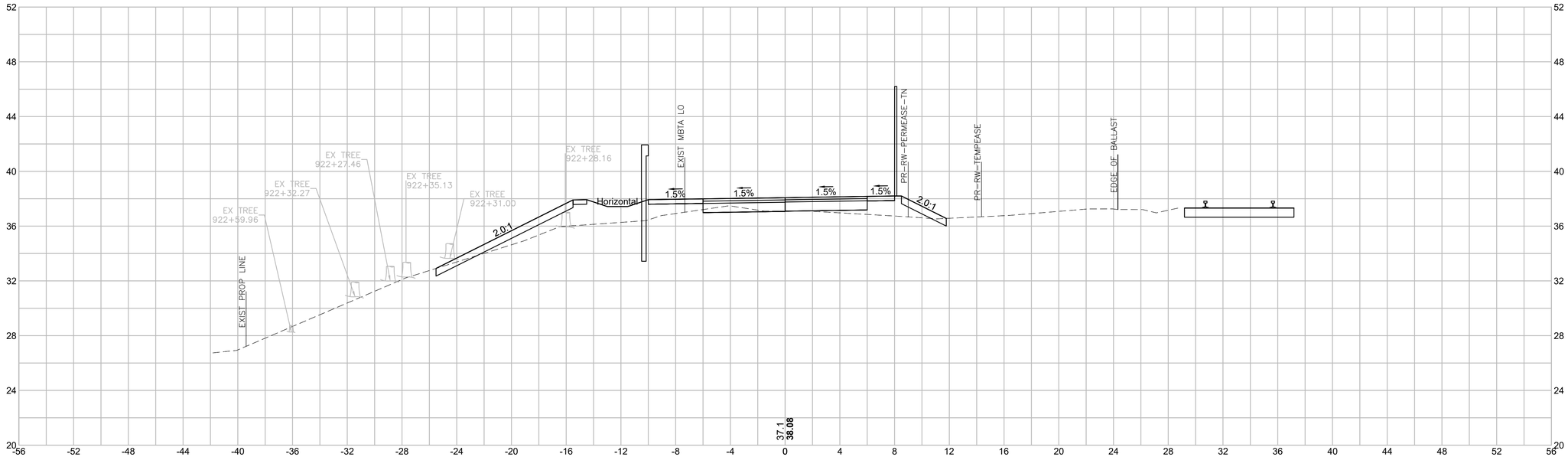
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609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:43 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	144	186
PROJECT FILE NO.	609204		

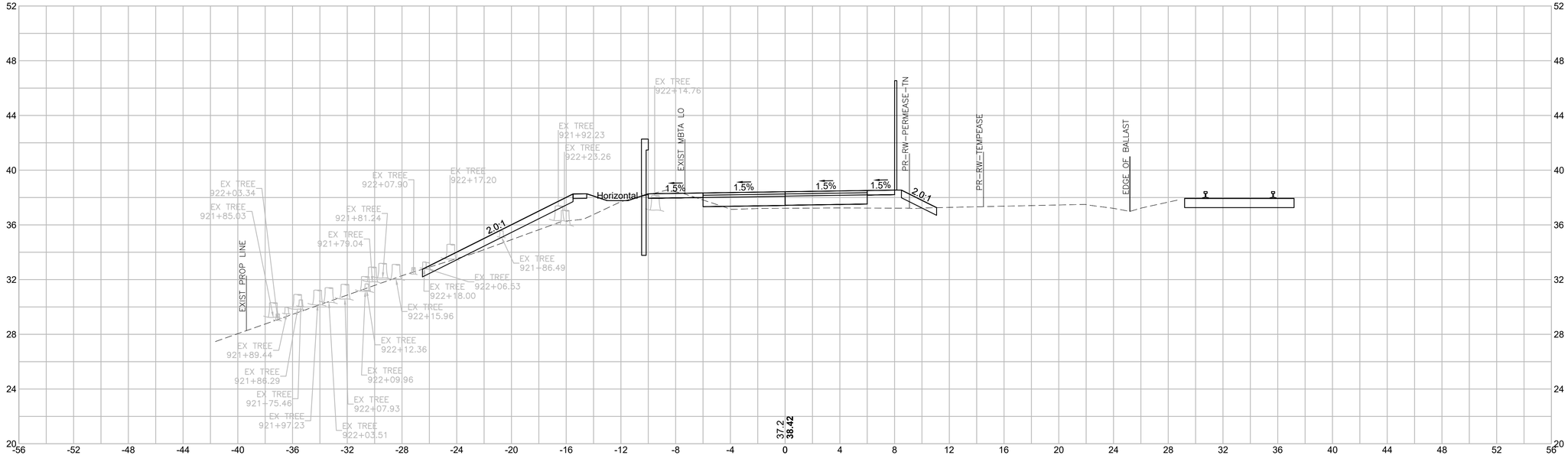
CROSS SECTIONS

922+50



EXCAVATION: 4
EMBANKMENT:18

922+00



EXCAVATION: 4
EMBANKMENT:15

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

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 2/7/2025 1:43 PM

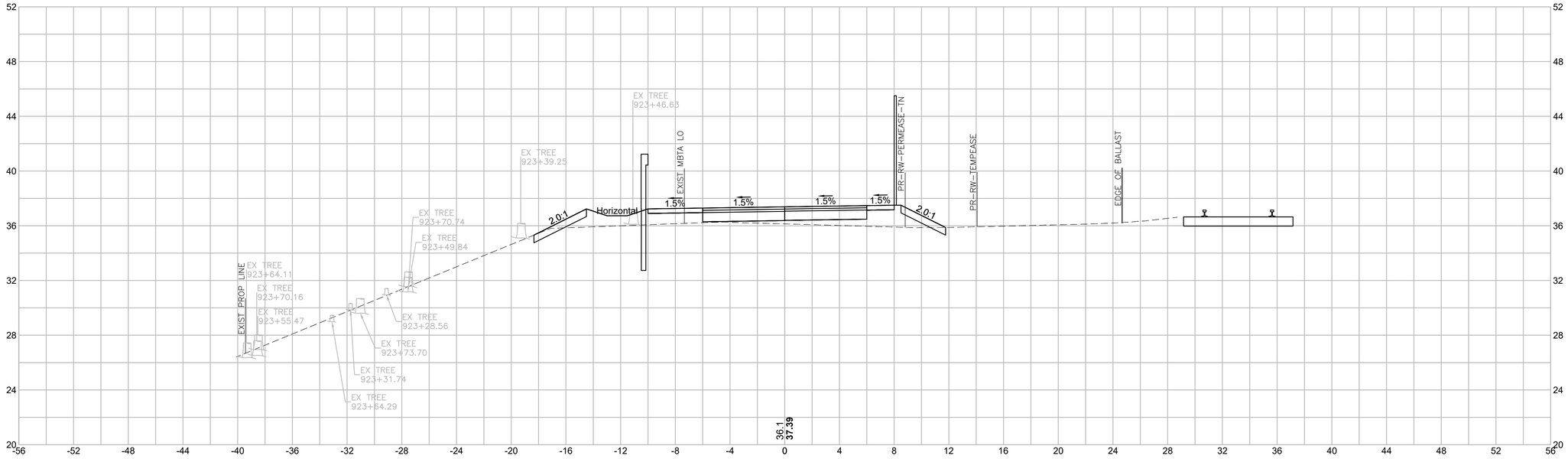
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

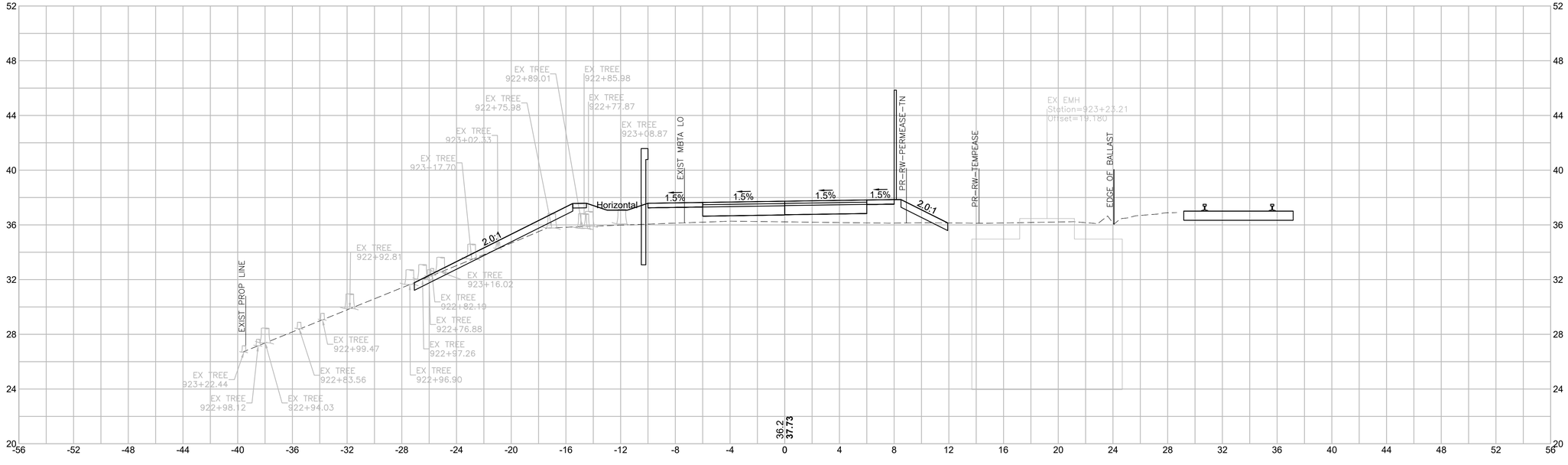
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	145	186
PROJECT FILE NO.	609204		

CROSS SECTIONS

923+50



923+00



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

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 2/7/2025 1:44 PM

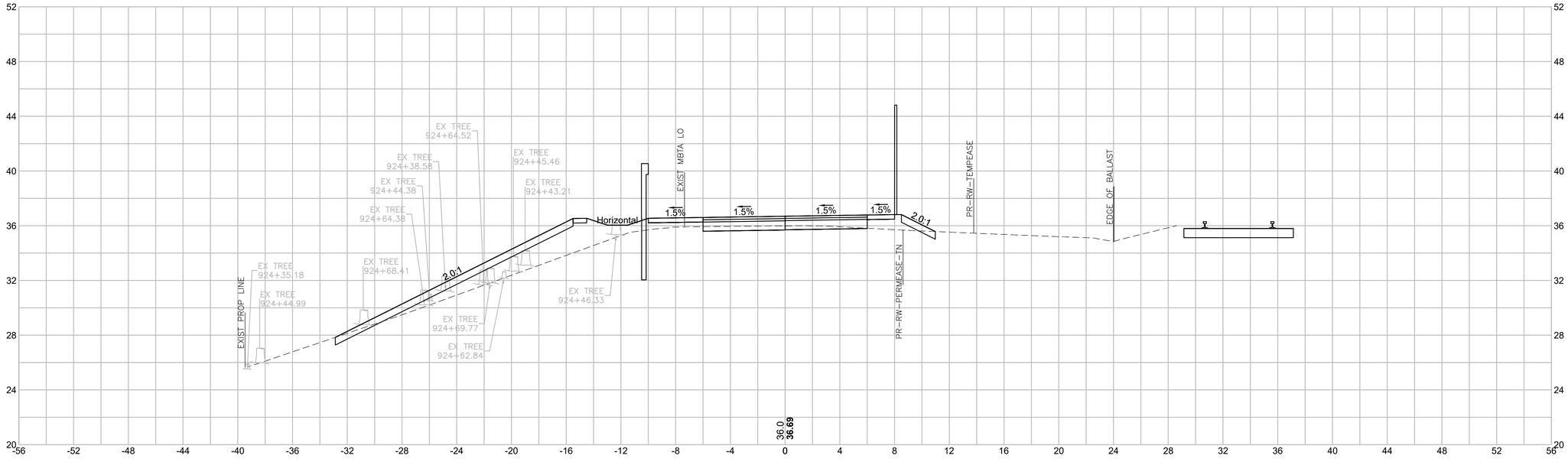
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	146	186
PROJECT FILE NO.	609204		

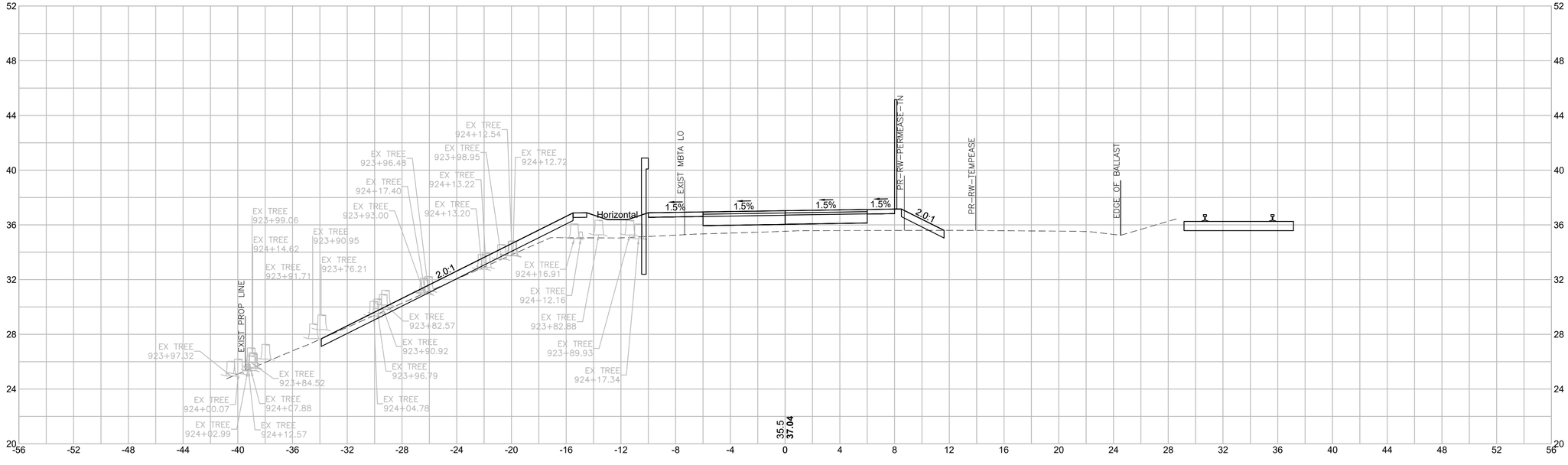
CROSS SECTIONS

924+50



EXCAVATION: 5
EMBANKMENT: 24

924+00



EXCAVATION: 4
EMBANKMENT:27

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

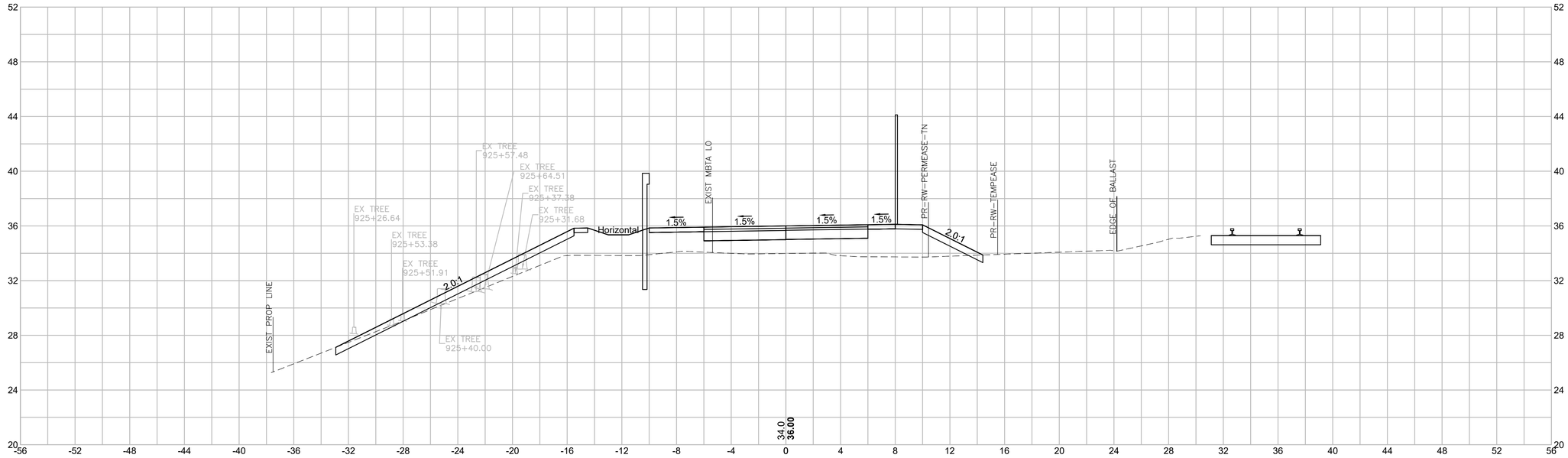
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609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:44 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	147	186
PROJECT FILE NO.	609204		

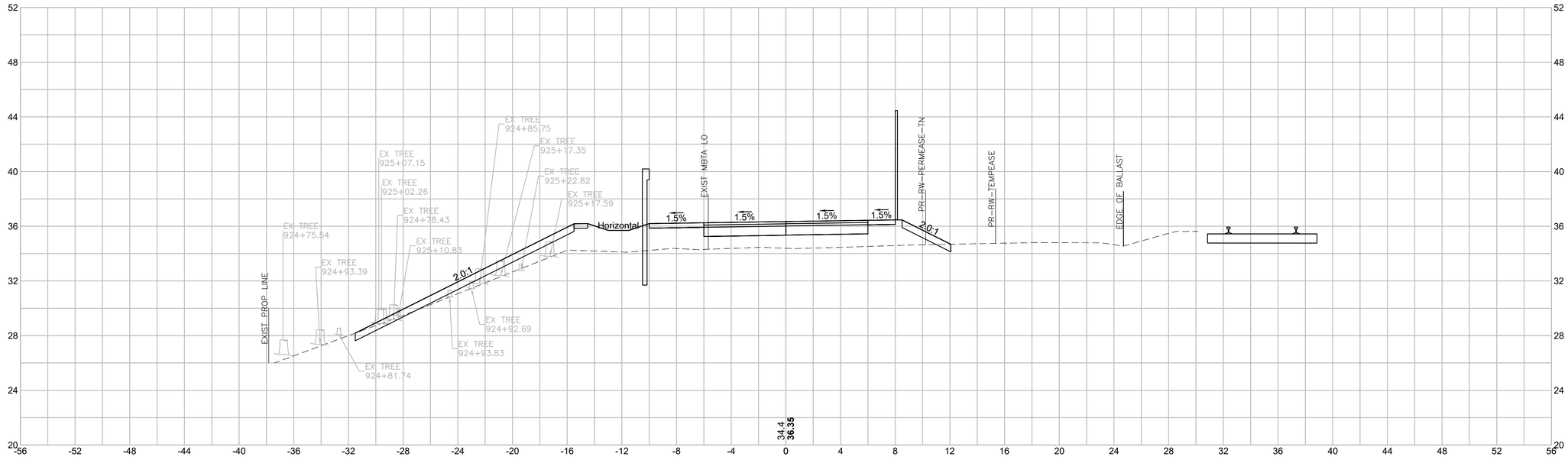
CROSS SECTIONS

925+50



EXCAVATION: 3
EMBANKMENT:43

925+00



EXCAVATION: 2
EMBANKMENT:38

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

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:45 PM

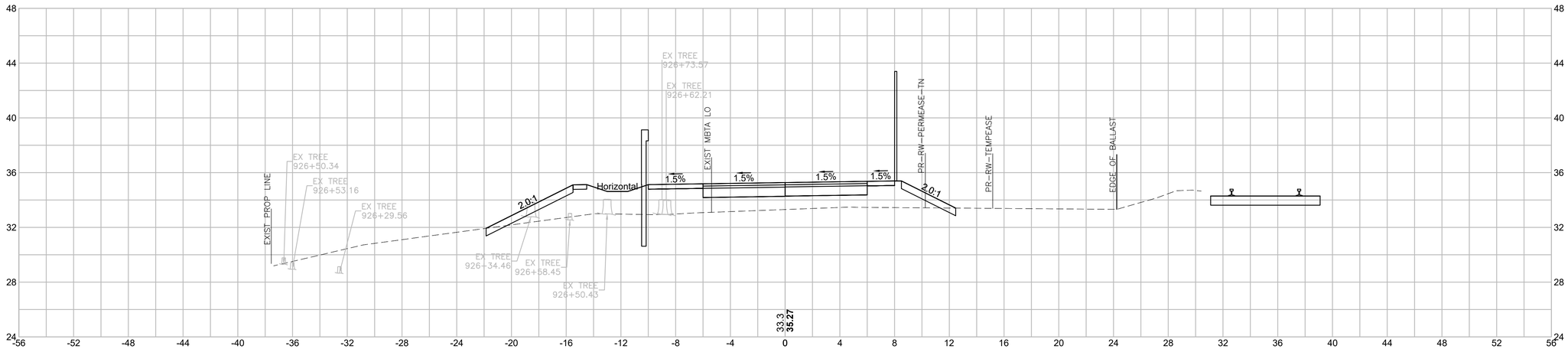
609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:45 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	148	186
PROJECT FILE NO.	609204		

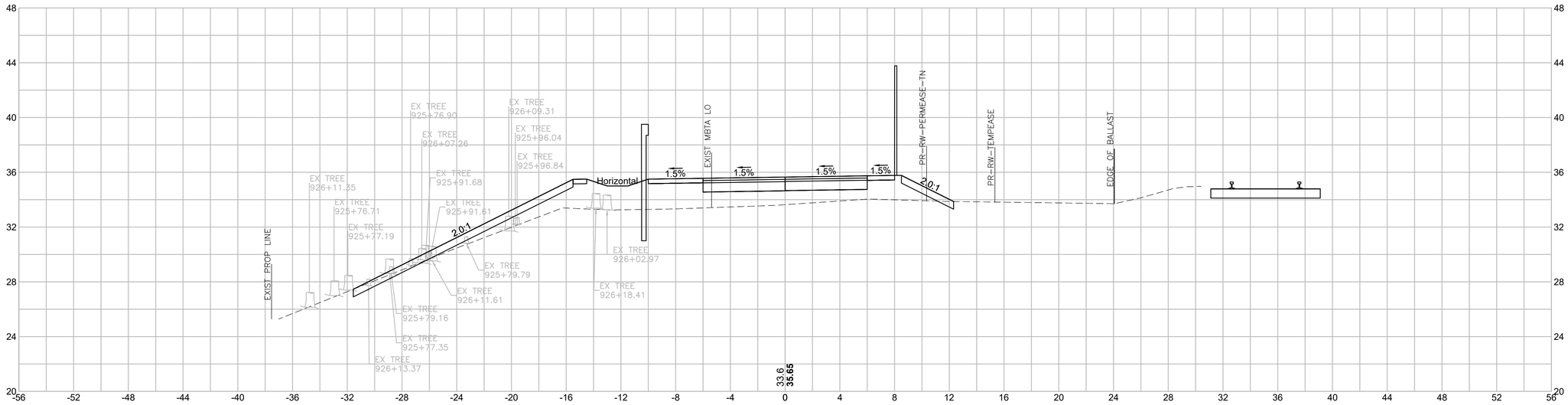
CROSS SECTIONS

926+50



EXCAVATION: 2
EMBANKMENT:39

926+00



EXCAVATION: 3
EMBANKMENT:40

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

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:45 PM

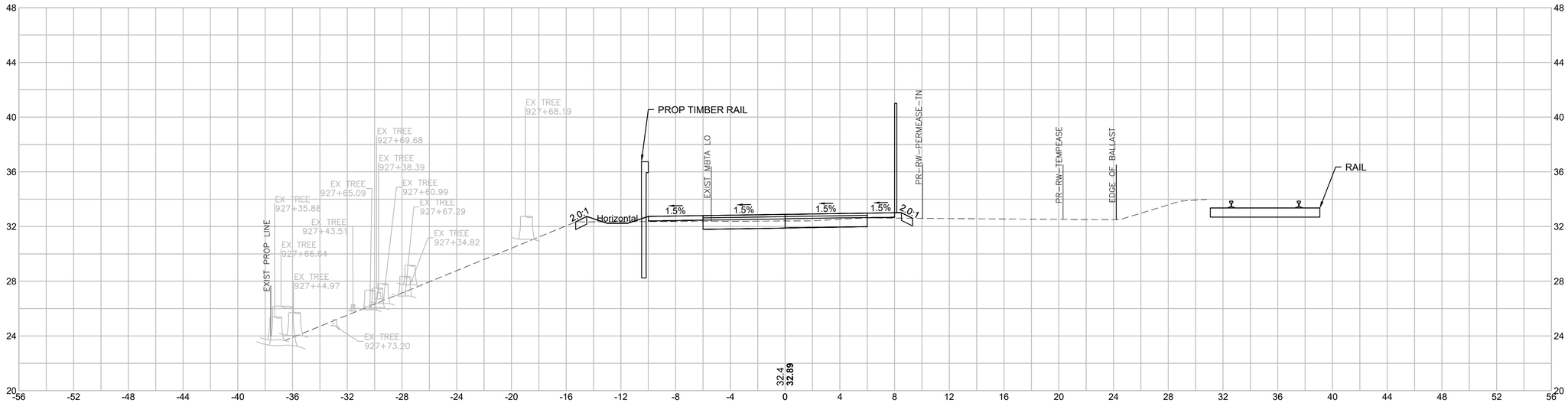
609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:45 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

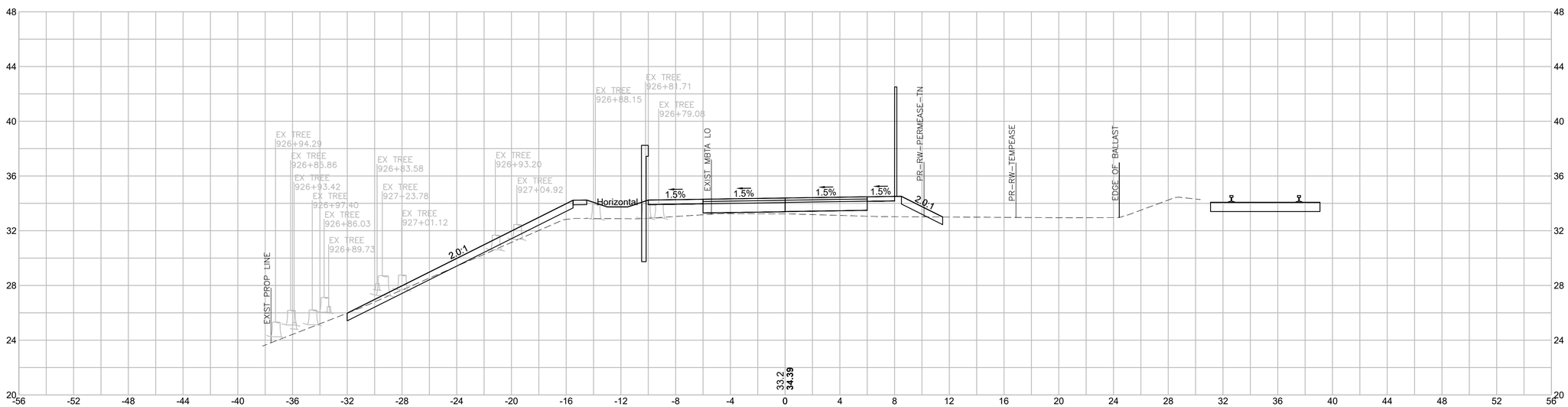
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	149	186
PROJECT FILE NO.	609204		

CROSS SECTIONS

927+50



927+00



EXCAVATION: 10
EMBANKMENT:1

EXCAVATION: 3
EMBANKMENT:18

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:46 PM

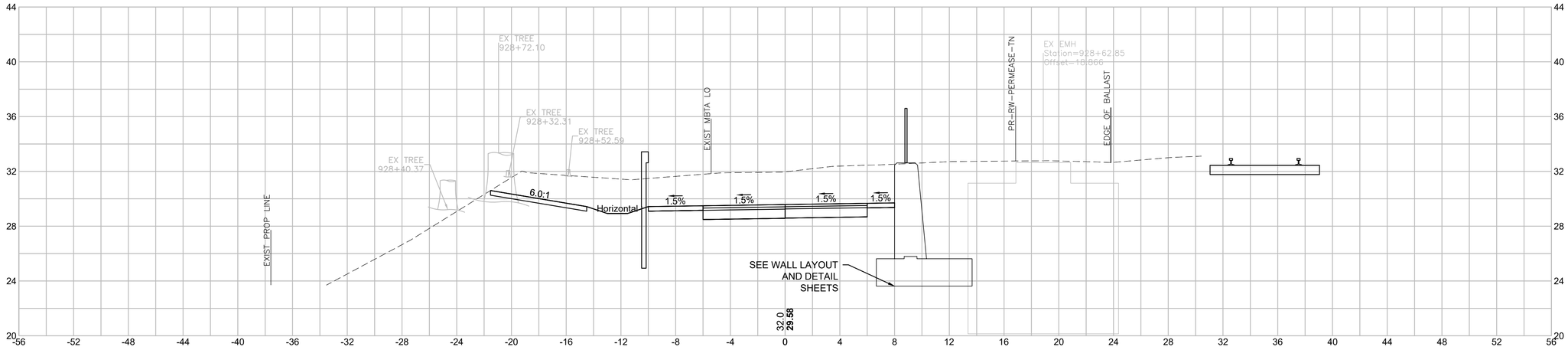
609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:46 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	150	186
PROJECT FILE NO.	609204		

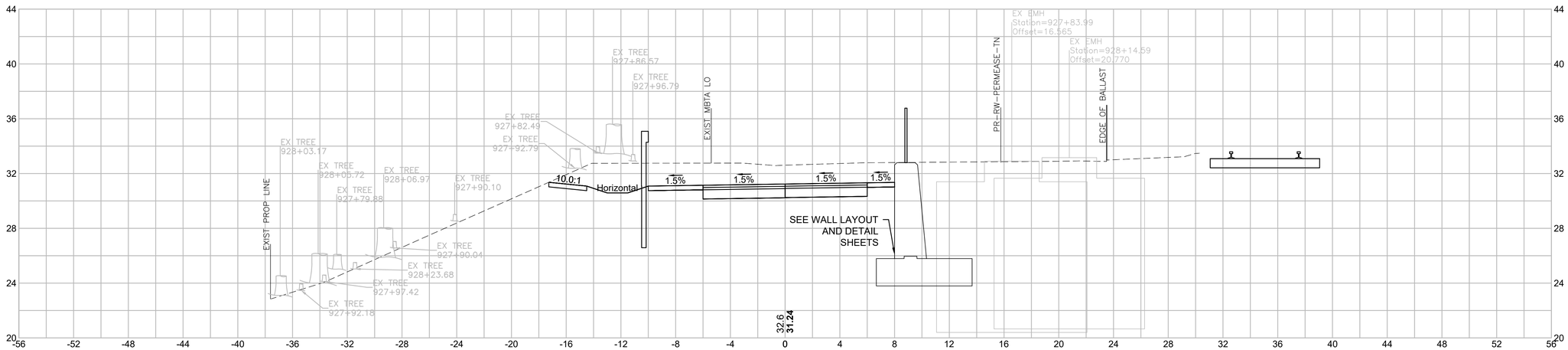
CROSS SECTIONS

928+50



EXCAVATION: 94
EMBANKMENT: 0

928+00



EXCAVATION: 58
EMBANKMENT: 0

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

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 2/7/2025 1:47 PM

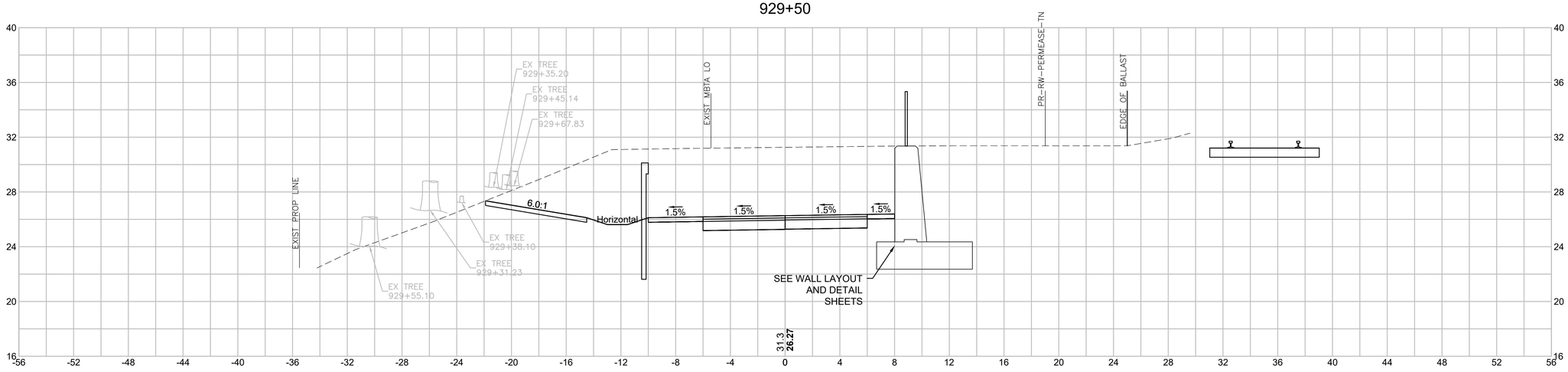
609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:47 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	151	186
PROJECT FILE NO.	609204		

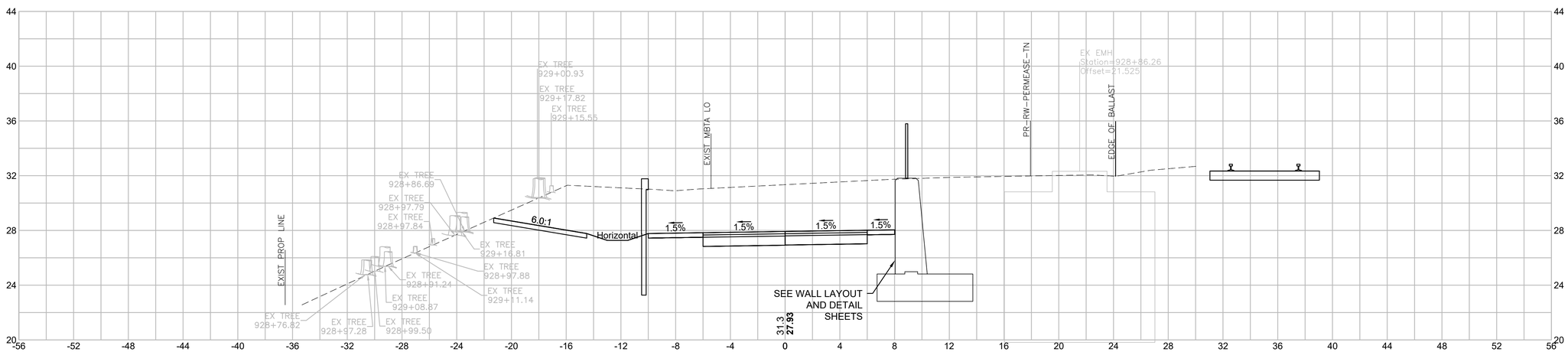
CROSS SECTIONS

929+50



EXCAVATION: 168
EMBANKMENT: 0

929+00



EXCAVATION: 122
EMBANKMENT: 0

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

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:47 PM

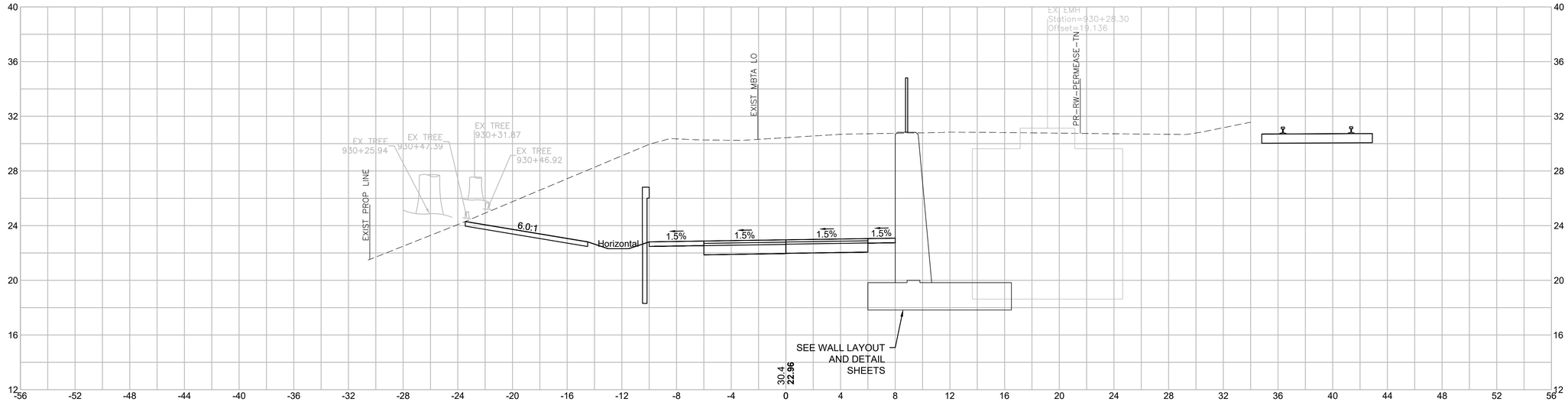
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	152	186
PROJECT FILE NO.	609204		

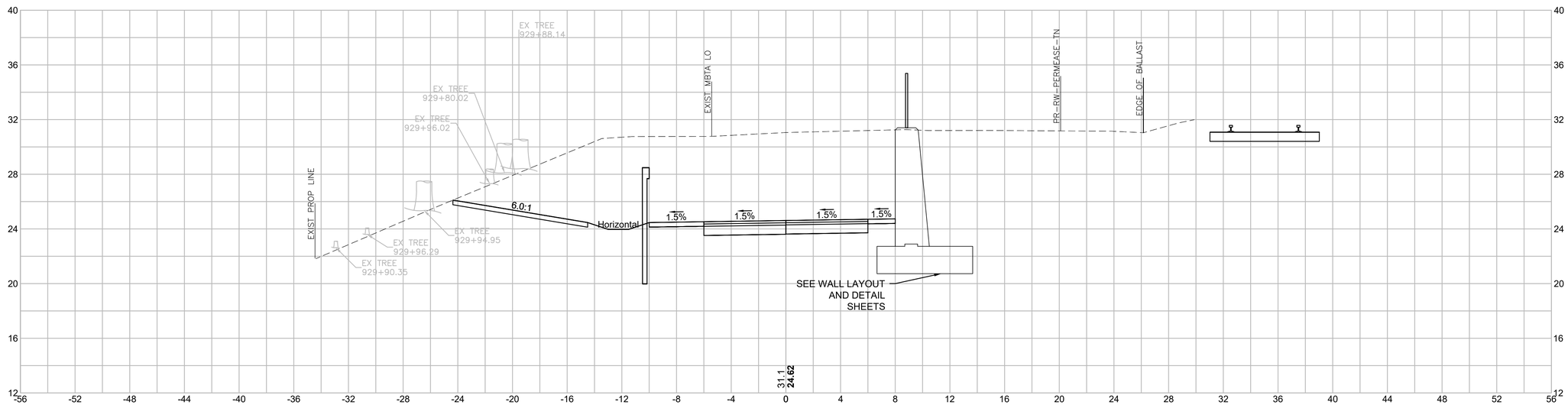
CROSS SECTIONS

930+50



EXCAVATION: 249
EMBANKMENT: 0

930+00



EXCAVATION: 224
EMBANKMENT: 0

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:48 PM

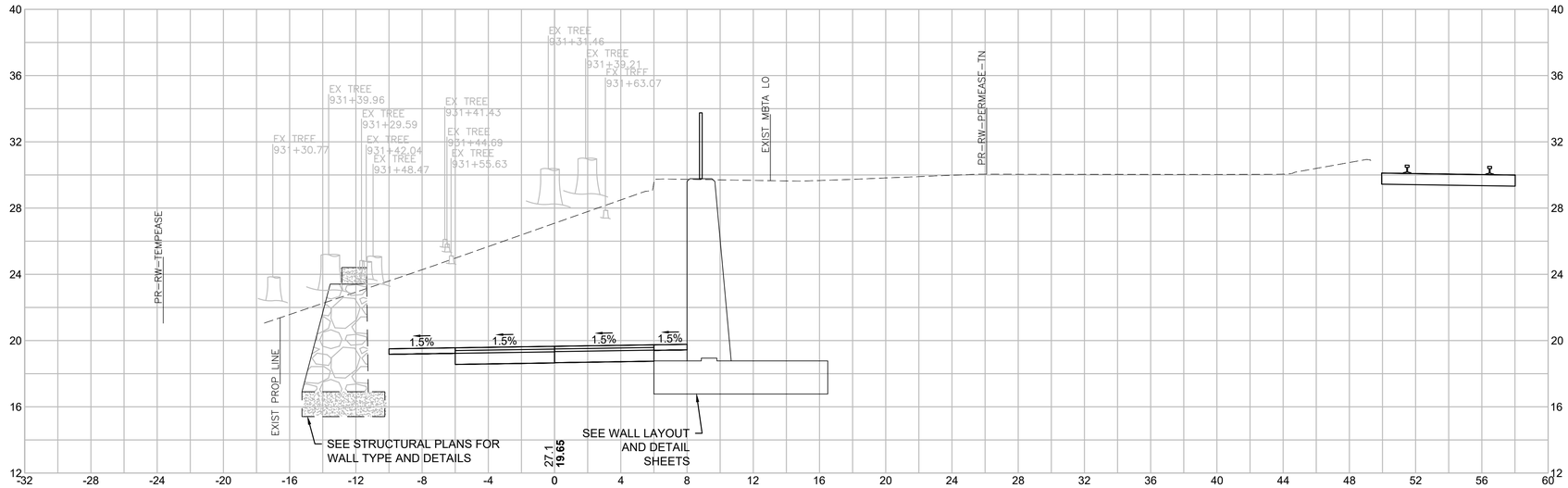
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	153	186
PROJECT FILE NO.	609204		

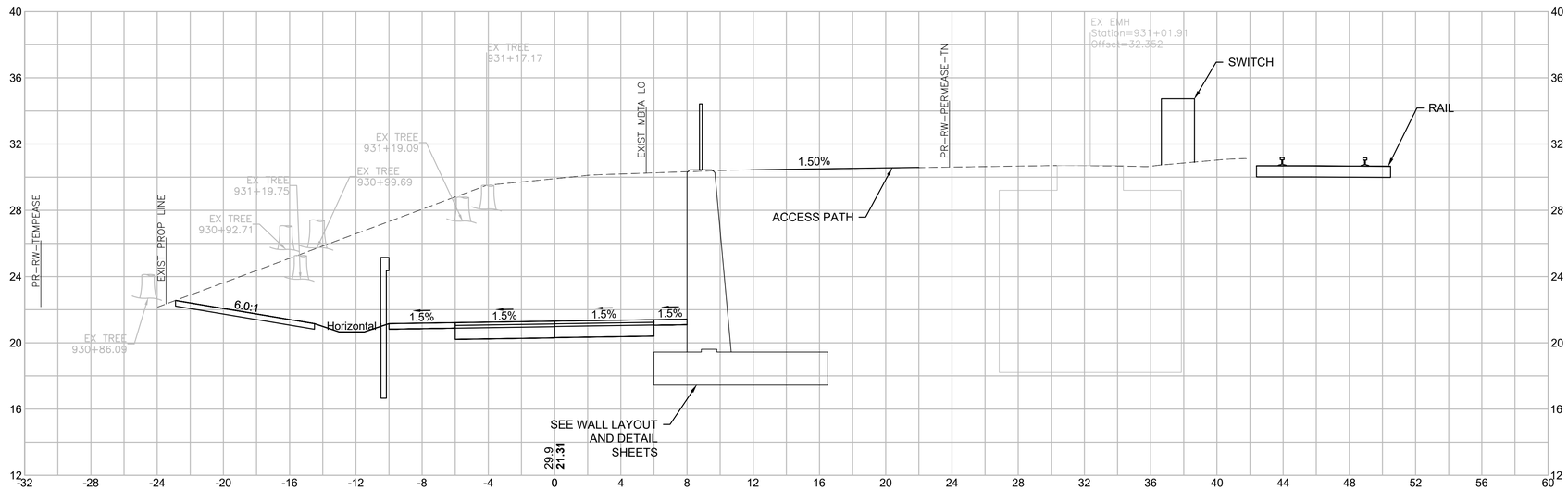
CROSS SECTIONS

931+50



EXCAVATION: 299
EMBANKMENT:0

931+00



EXCAVATION: 264
EMBANKMENT: 0

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:48 PM

609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:48 PM

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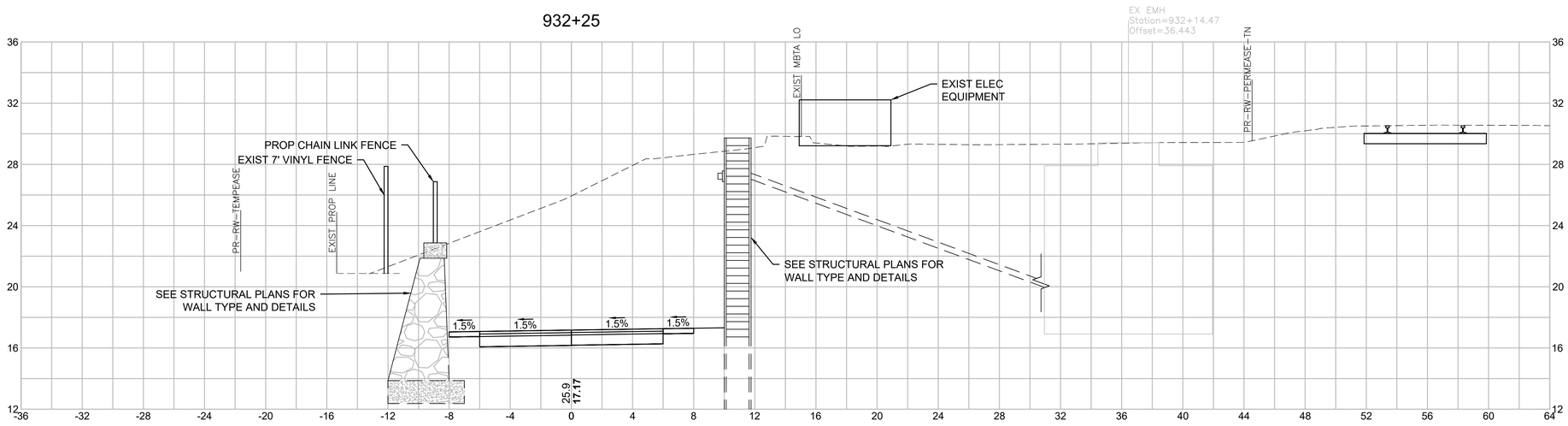
609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:49 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	154	186
PROJECT FILE NO.	609204		

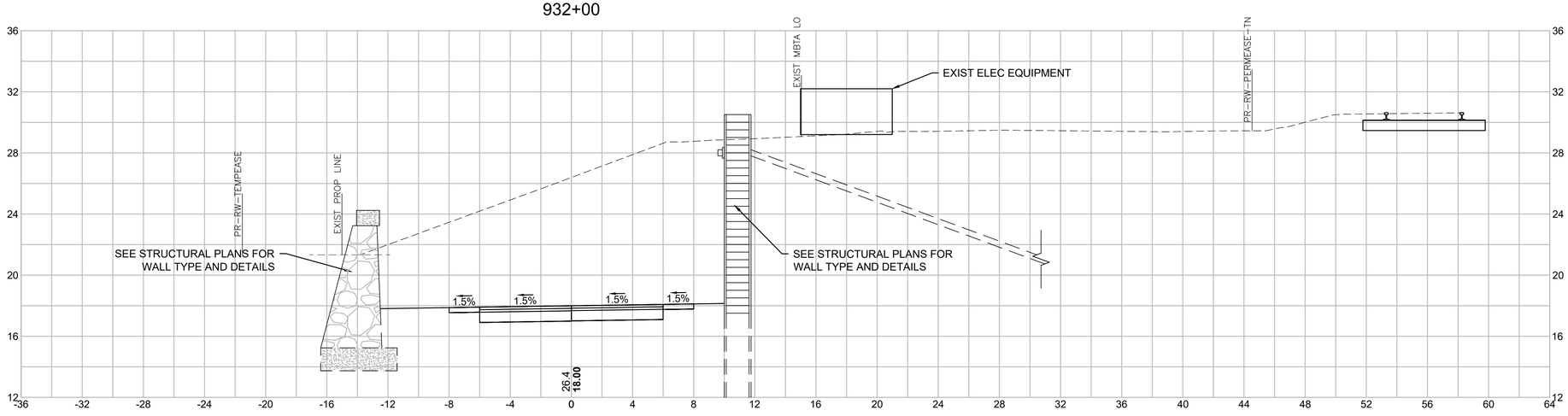
CROSS SECTIONS

932+25



EXCAVATION: 226
EMBANKMENT: 0

932+00



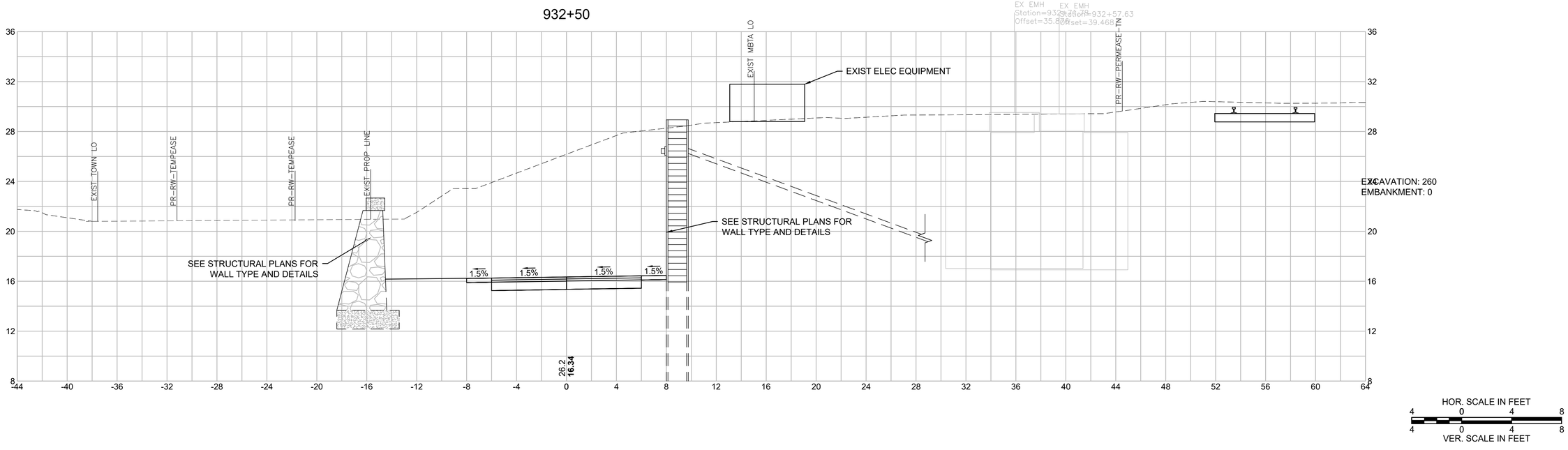
EXCAVATION: 223
EMBANKMENT: 0

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

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	155	186
PROJECT FILE NO.	609204		

CROSS SECTIONS



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

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 2/7/2025 1:49 PM

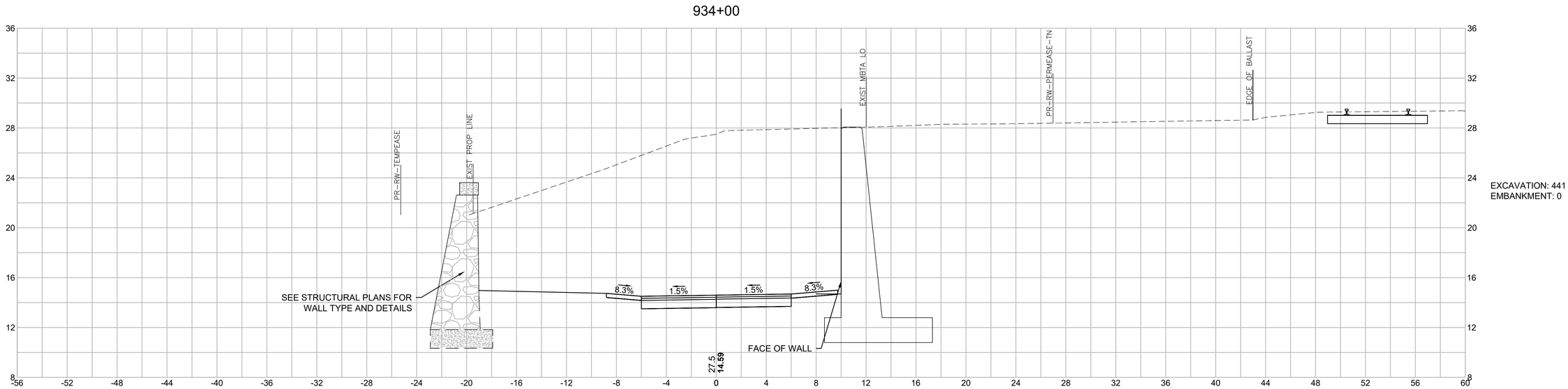
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	156	186
PROJECT FILE NO.	609204		

CROSS SECTIONS

934+00



EXCAVATION: 441
EMBANKMENT: 0

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

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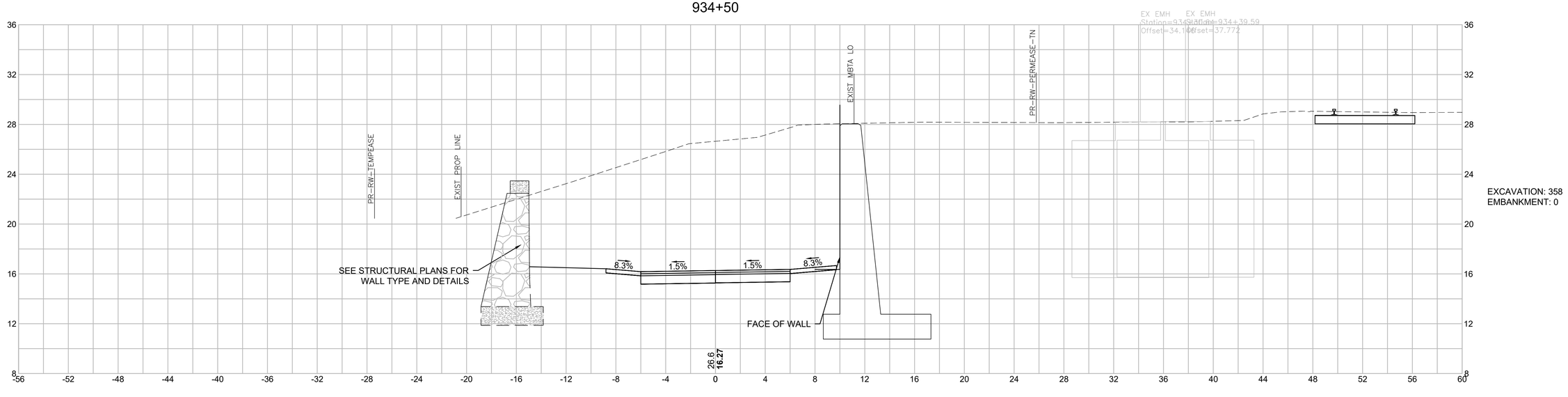
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	157	186
PROJECT FILE NO.	609204		

CROSS SECTIONS

934+50



EXCAVATION: 358
EMBANKMENT: 0

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

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:50 PM

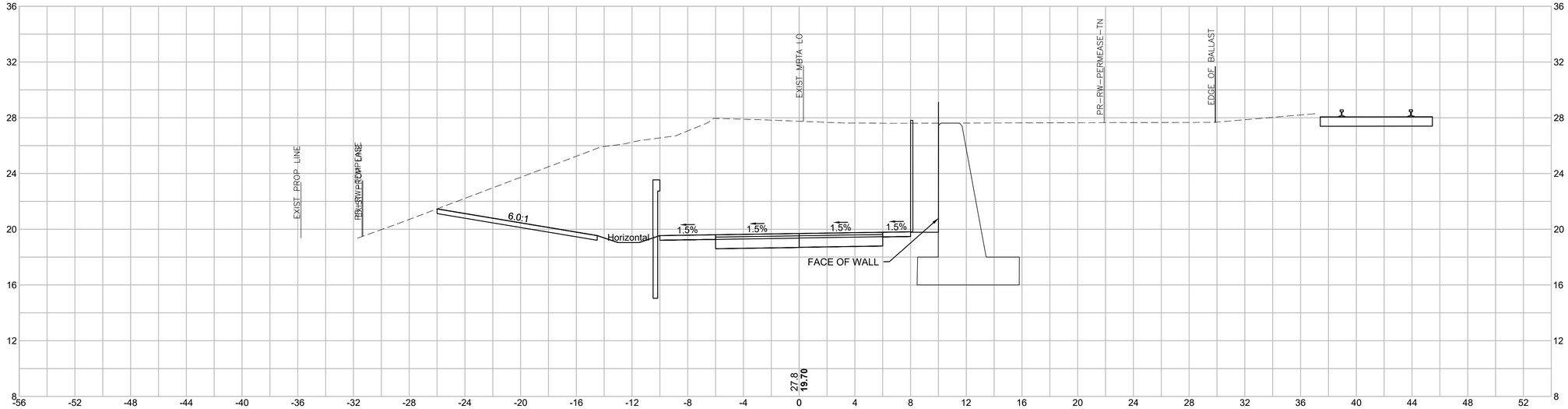
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	158	186
PROJECT FILE NO.	609204		

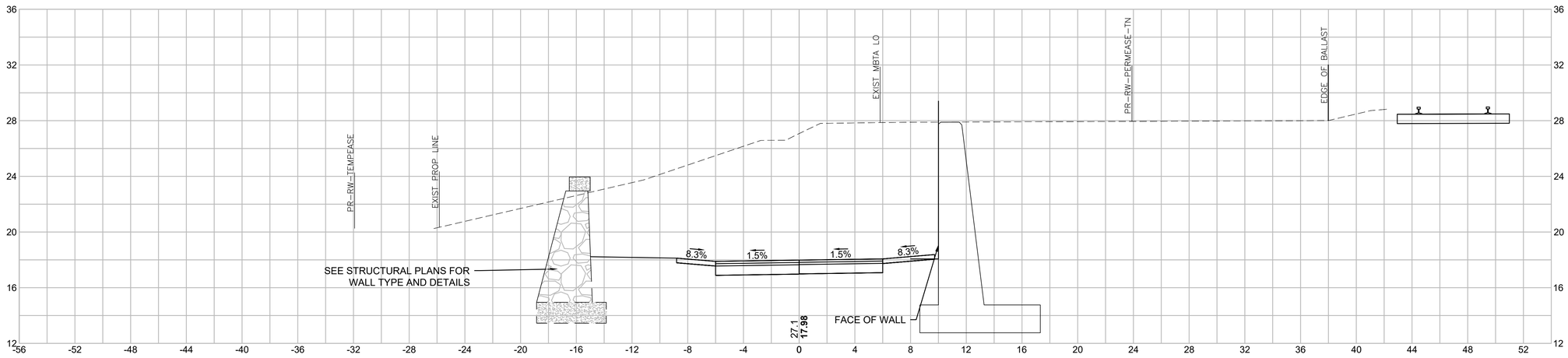
CROSS SECTIONS

935+50



EXCAVATION: 275
EMBANKMENT: 0

935+00



EXCAVATION: 299
EMBANKMENT: 0

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

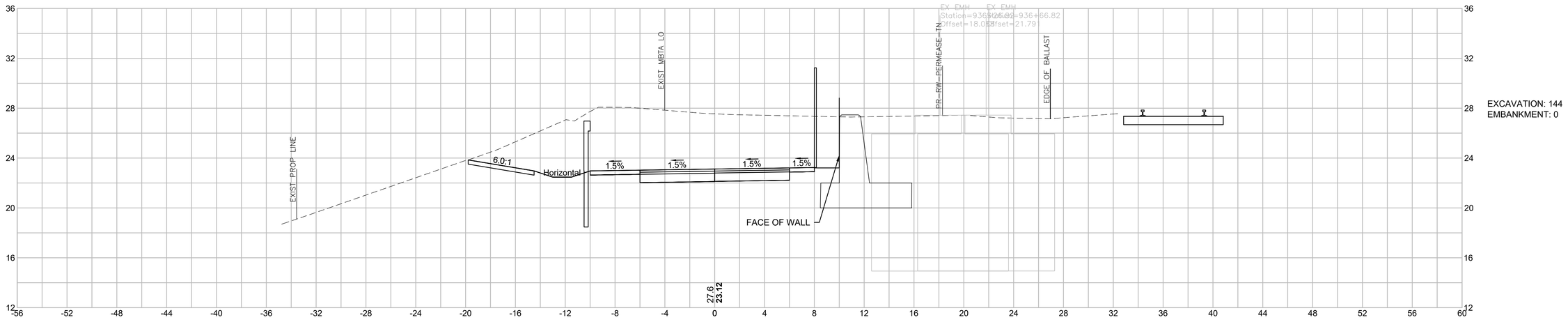
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609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:51 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	159	186
PROJECT FILE NO.	609204		

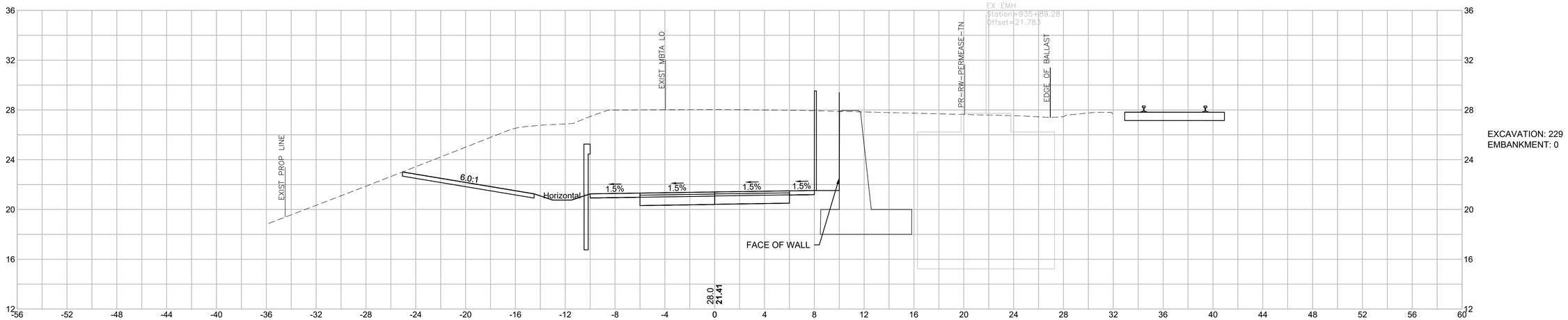
CROSS SECTIONS

936+50



EXCAVATION: 144
EMBANKMENT: 0

936+00



EXCAVATION: 229
EMBANKMENT: 0

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:51 PM

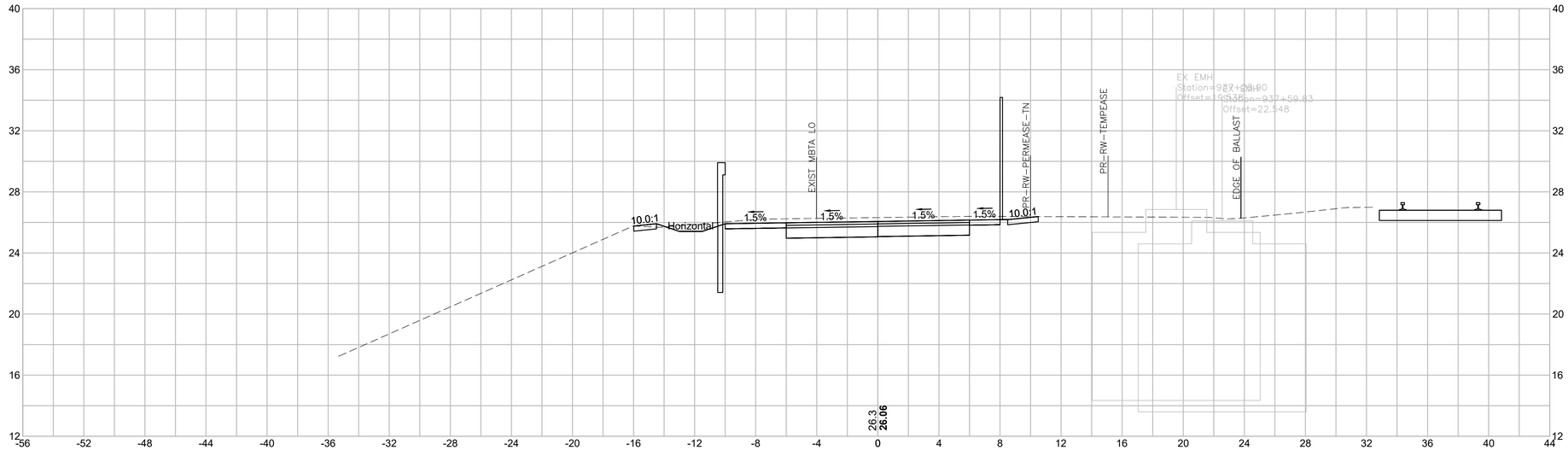
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	160	186
PROJECT FILE NO.	609204		

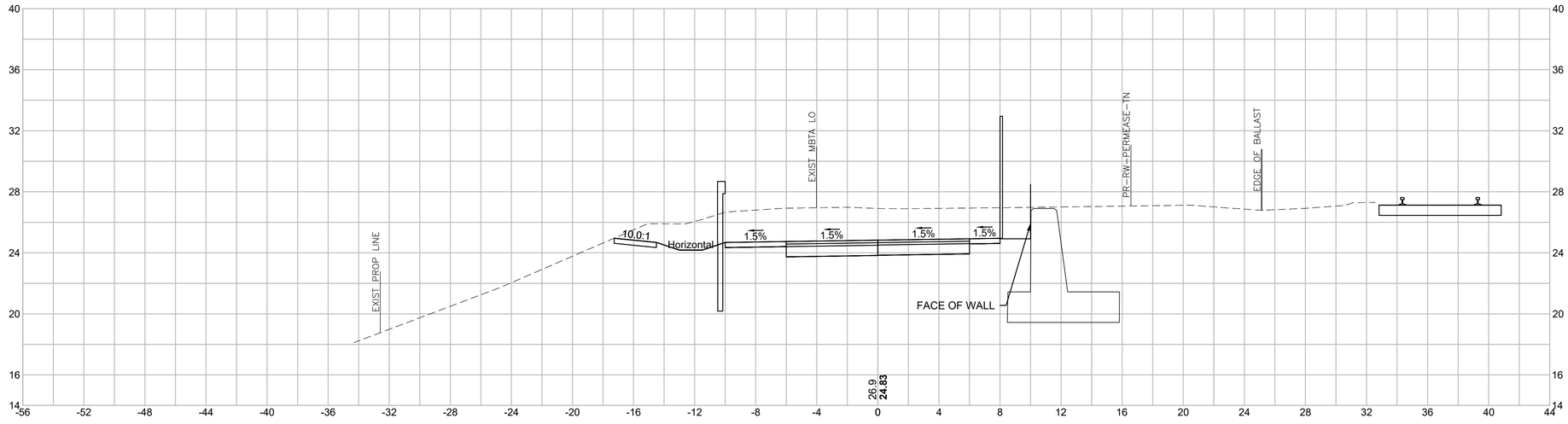
CROSS SECTIONS

937+50



EXCAVATION: 23
EMBANKMENT: 0

937+00



EXCAVATION: 71
EMBANKMENT: 0

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

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:52 PM

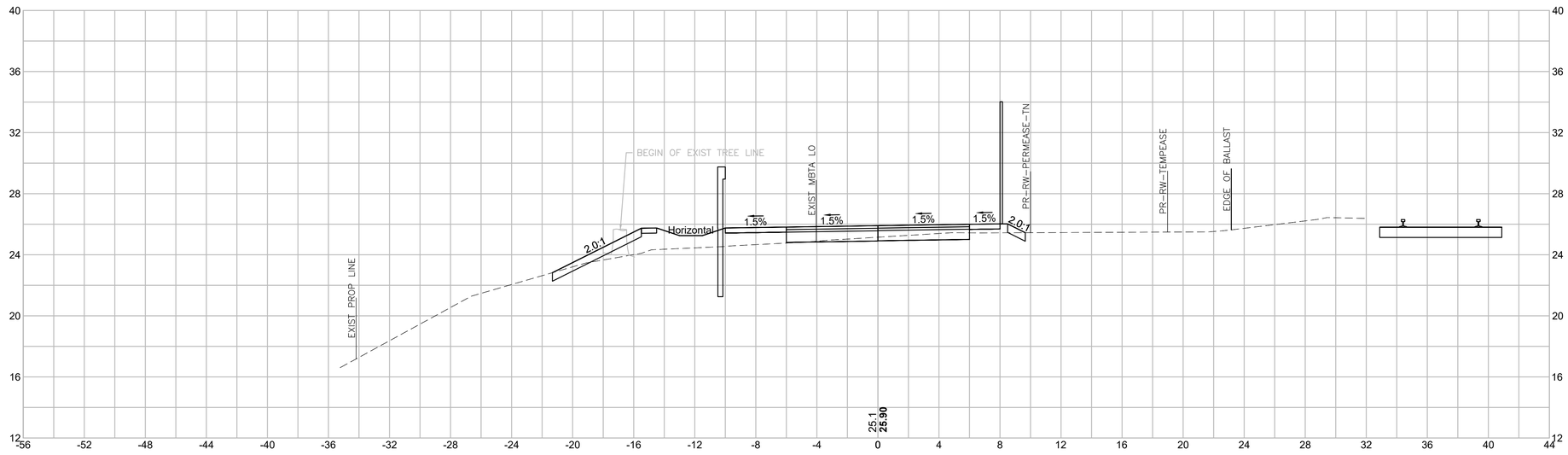
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

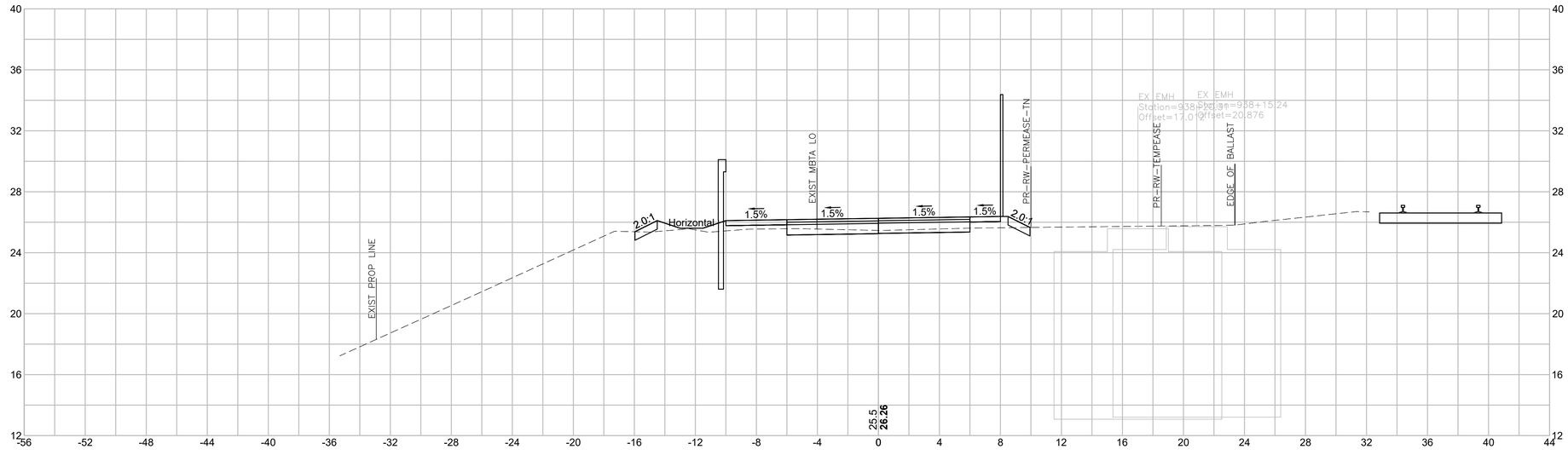
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	161	186
PROJECT FILE NO.	609204		

CROSS SECTIONS

938+50



938+00



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

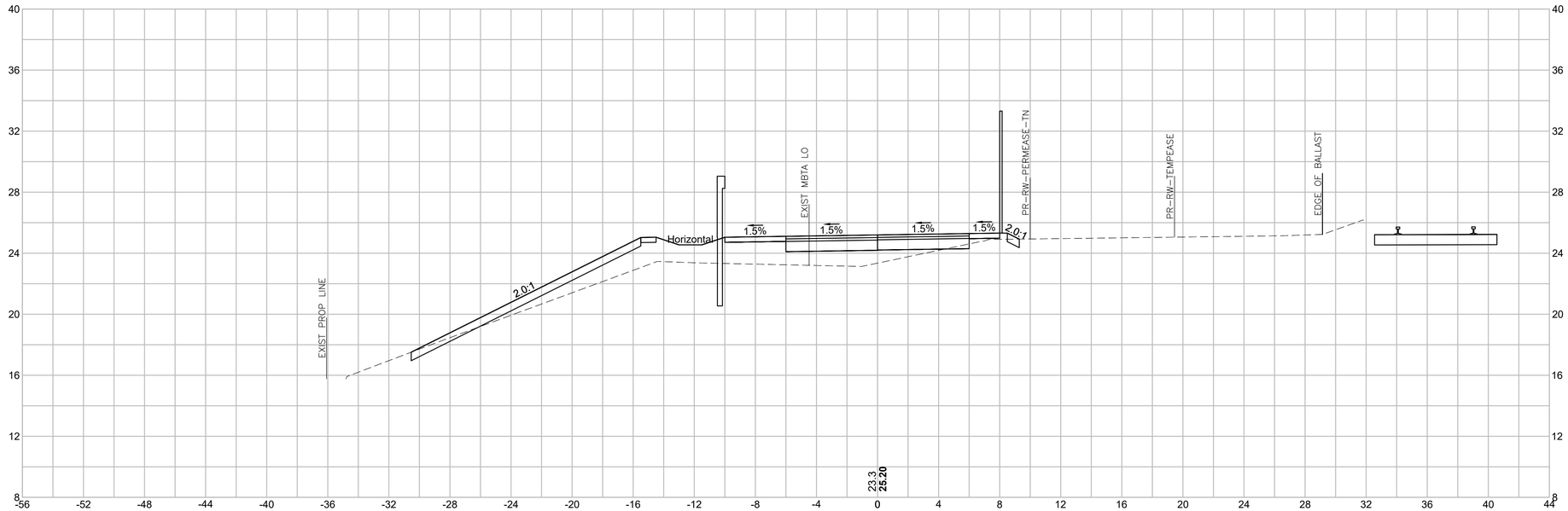
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609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:53 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	162	186
PROJECT FILE NO.	609204		

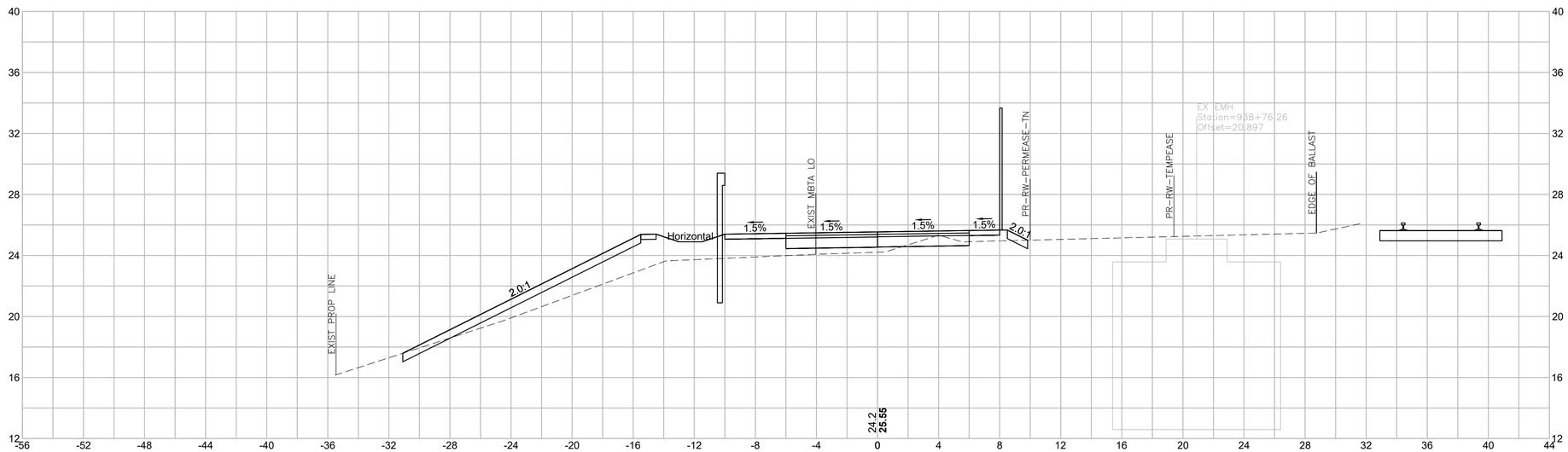
CROSS SECTIONS

939+50



EXCAVATION: 3
EMBANKMENT:28

939+00



EXCAVATION: 4
EMBANKMENT:28

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

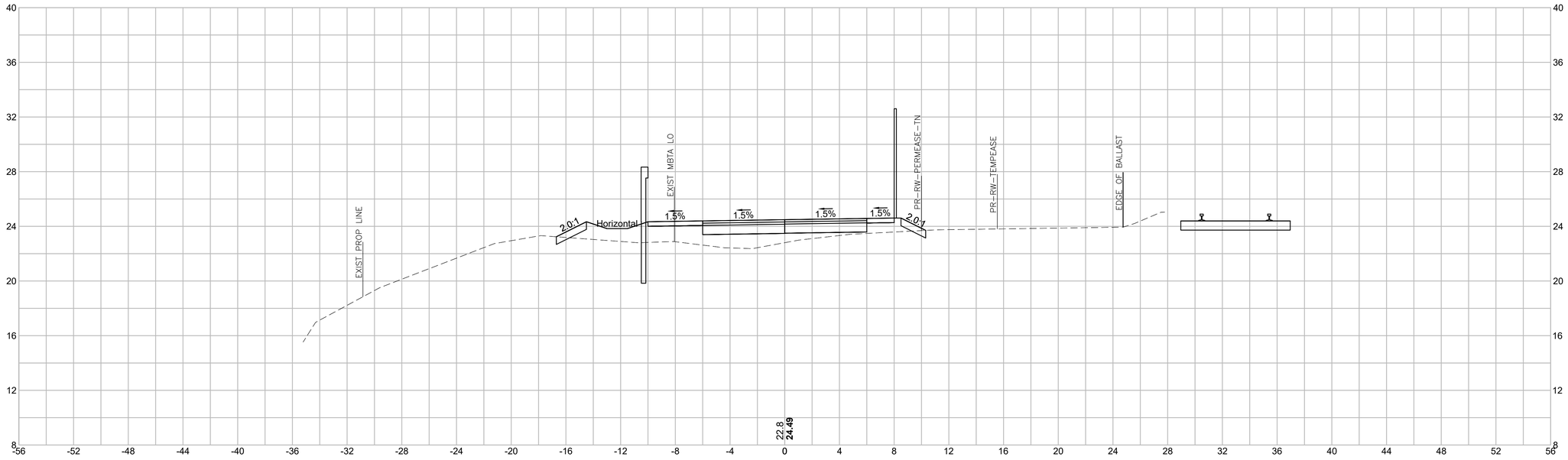
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

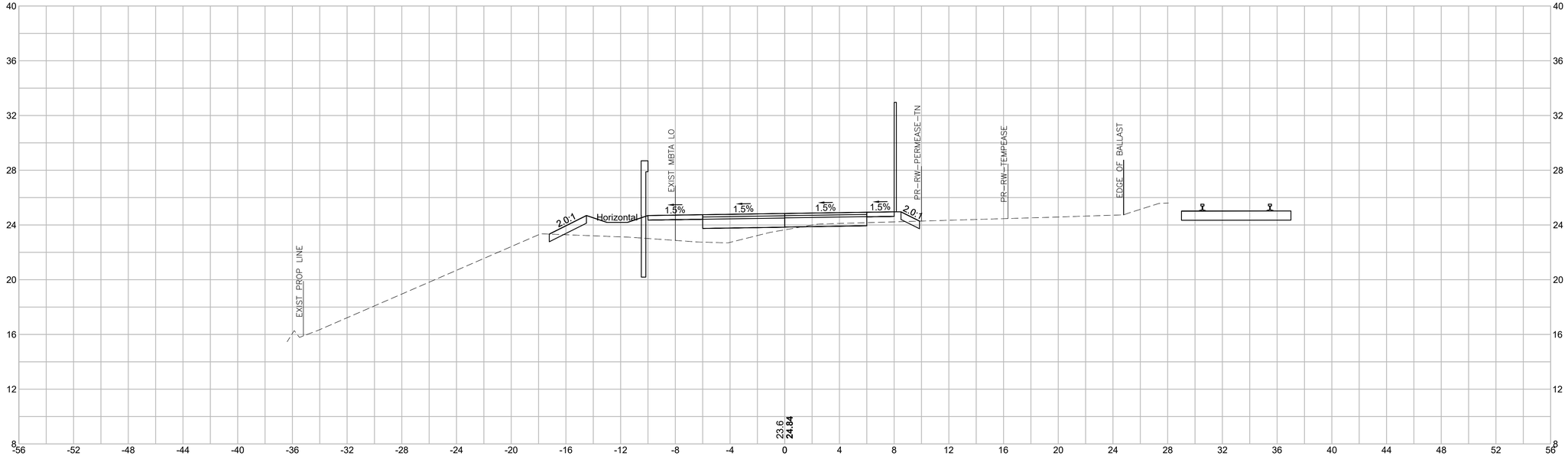
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	163	186
PROJECT FILE NO.	609204		

CROSS SECTIONS

940+50



940+00



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

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:54 PM

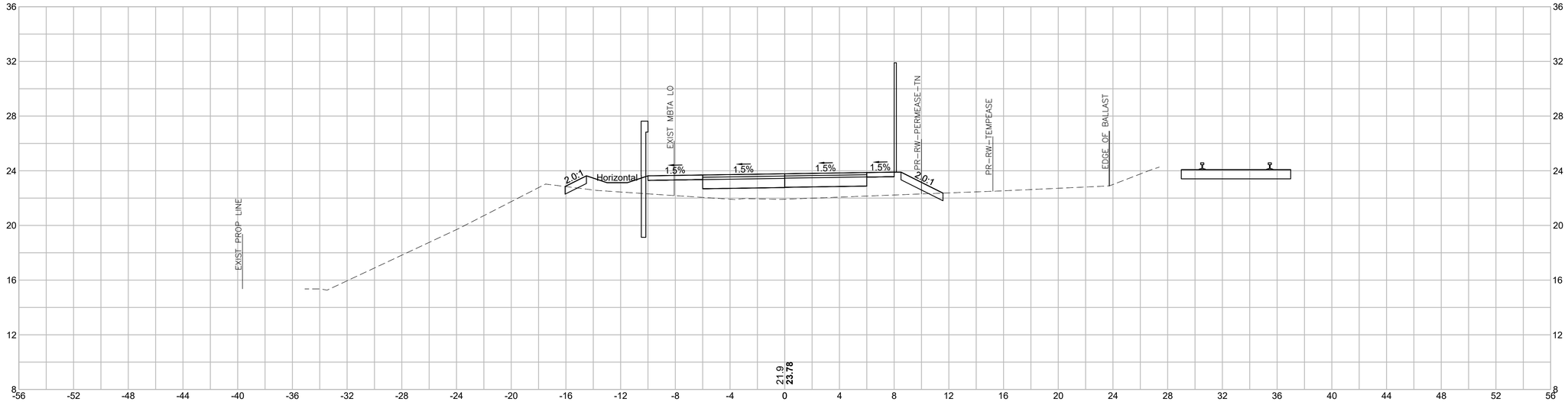
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	164	186
PROJECT FILE NO.	609204		

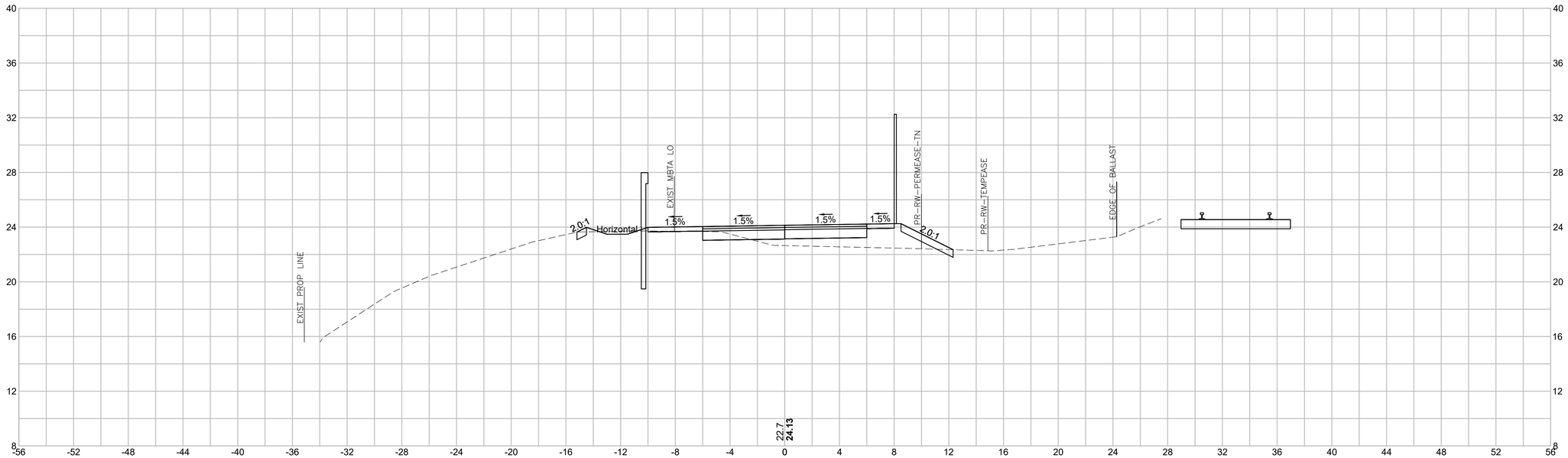
CROSS SECTIONS

941+50



EXCAVATION: 2
EMBANKMENT:22

941+00



EXCAVATION: 4
EMBANKMENT:10

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

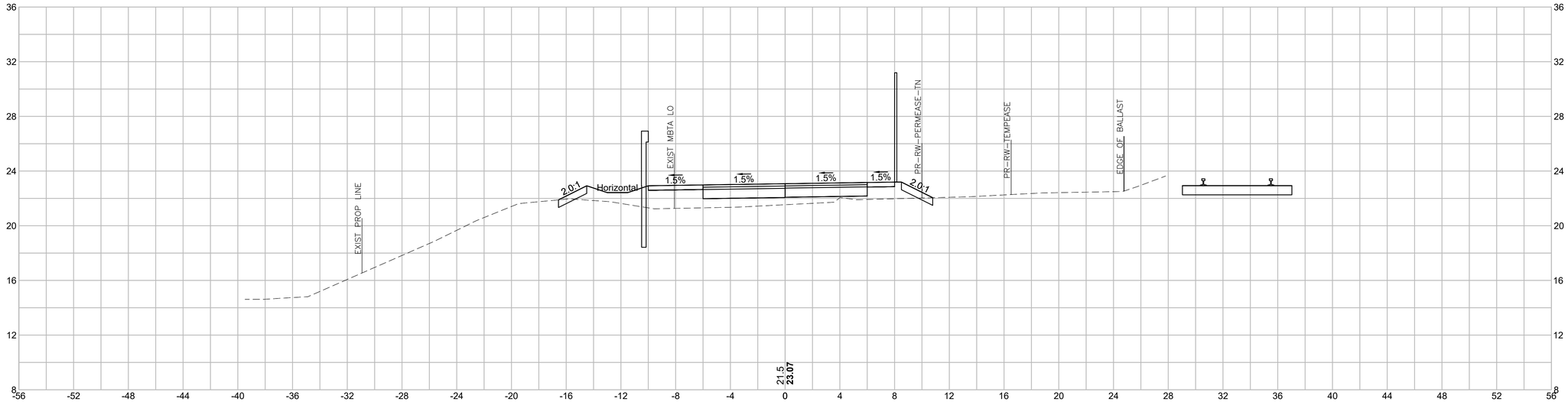
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609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:54 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	165	186
PROJECT FILE NO.	609204		

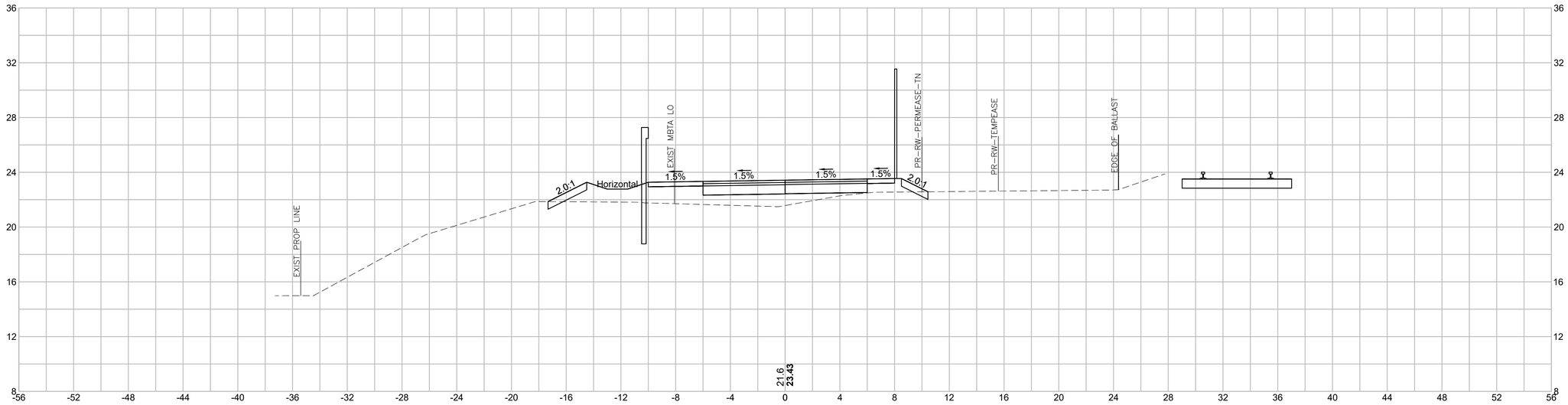
CROSS SECTIONS

942+50



EXCAVATION: 2
EMBANKMENT:19

942+00



EXCAVATION: 2
EMBANKMENT:21

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

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:55 PM

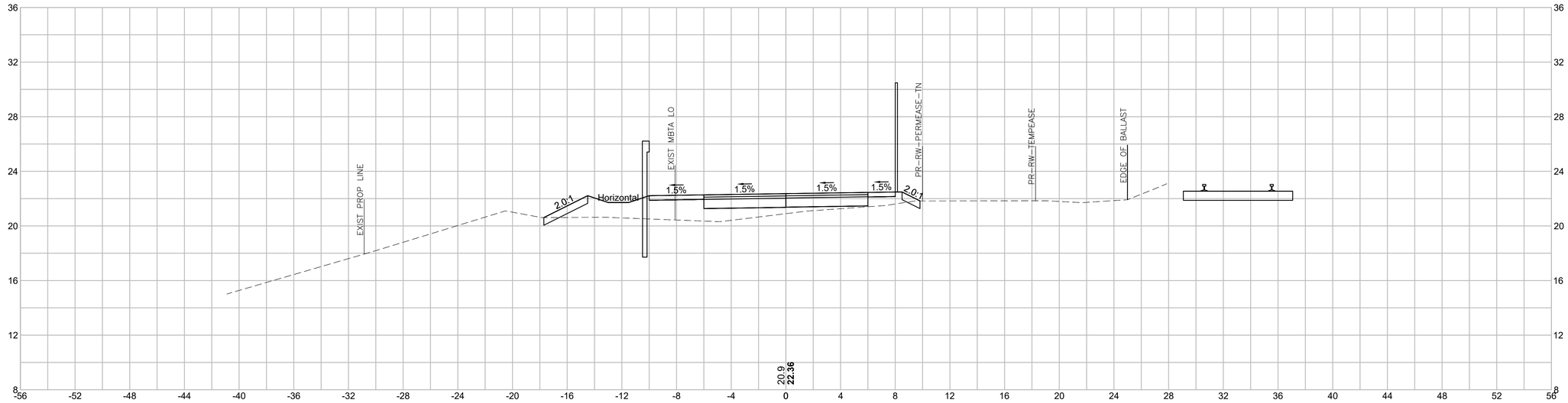
609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:55 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	166	186
PROJECT FILE NO.	609204		

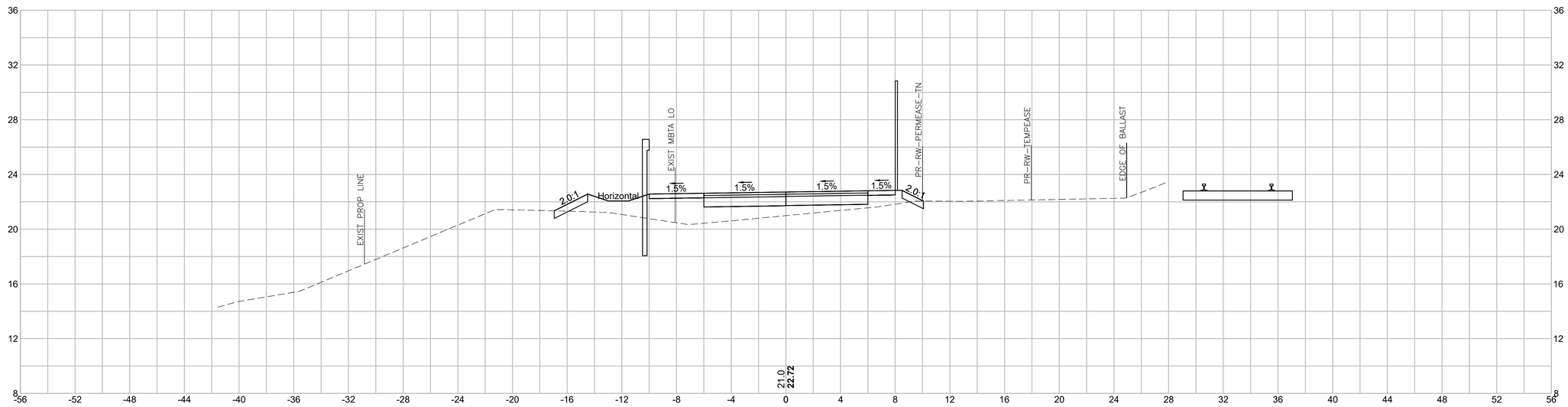
CROSS SECTIONS

943+50



EXCAVATION: 1
EMBANKMENT:22

943+00



EXCAVATION: 2
EMBANKMENT:24

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

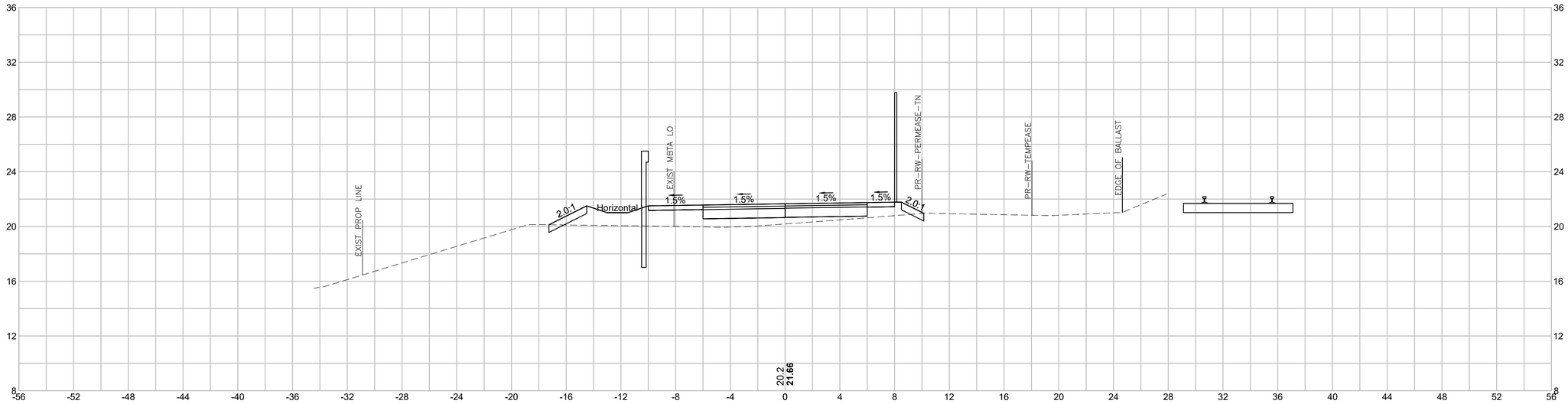
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609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:55 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	167	186
PROJECT FILE NO.	609204		

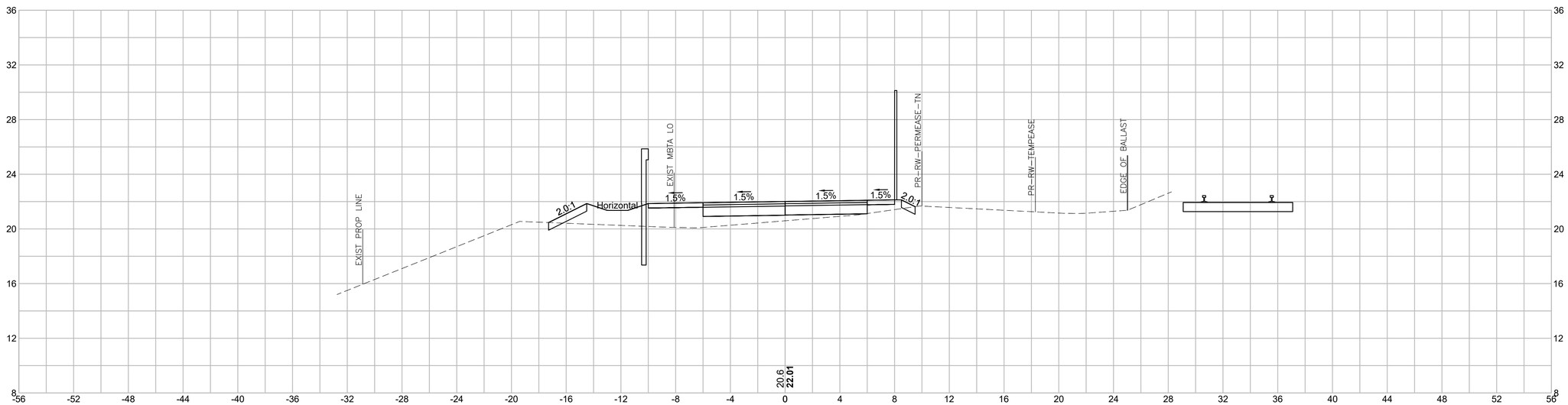
CROSS SECTIONS

944+50



EXCAVATION: 2
EMBANKMENT: 19

944+00



EXCAVATION: 1
EMBANKMENT:19

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:56 PM

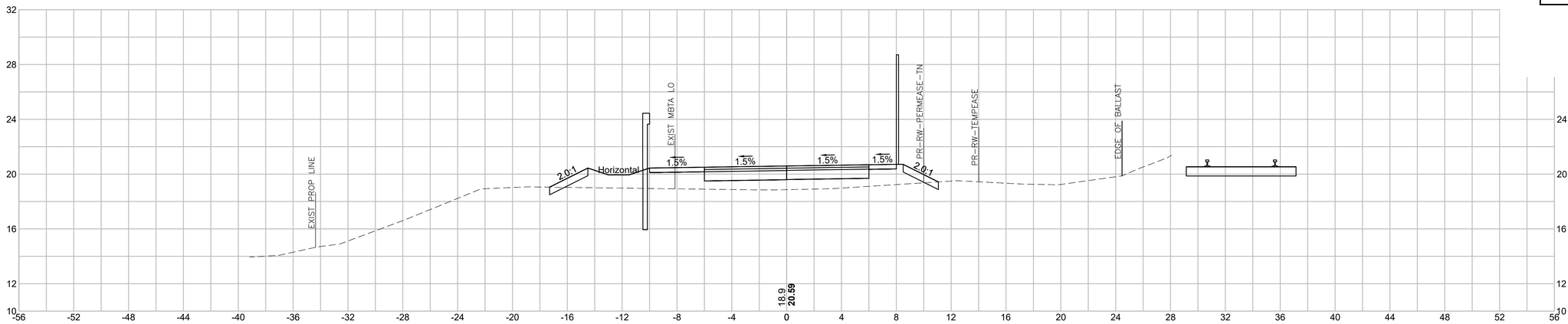
609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:56 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	168	186
PROJECT FILE NO.	609204		

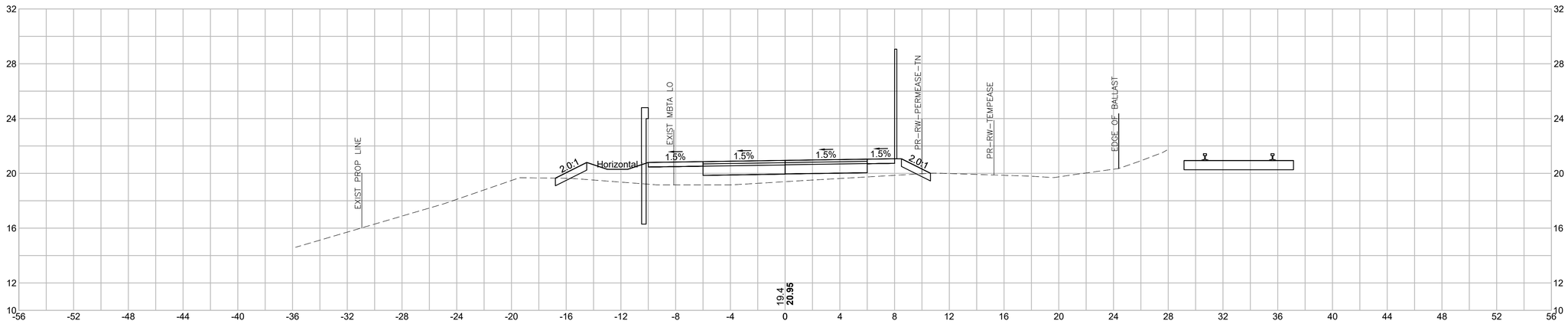
CROSS SECTIONS

946+00



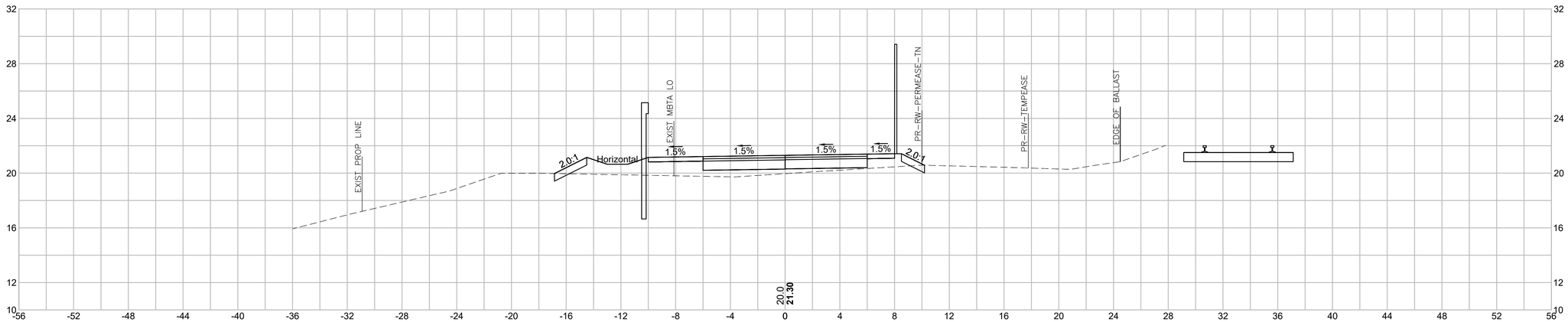
EXCAVATION: 2
EMBANKMENT:23

945+50



EXCAVATION: 2
EMBANKMENT: 20

945+00



EXCAVATION: 2
EMBANKMENT15

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

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 2/7/2025 1:56 PM

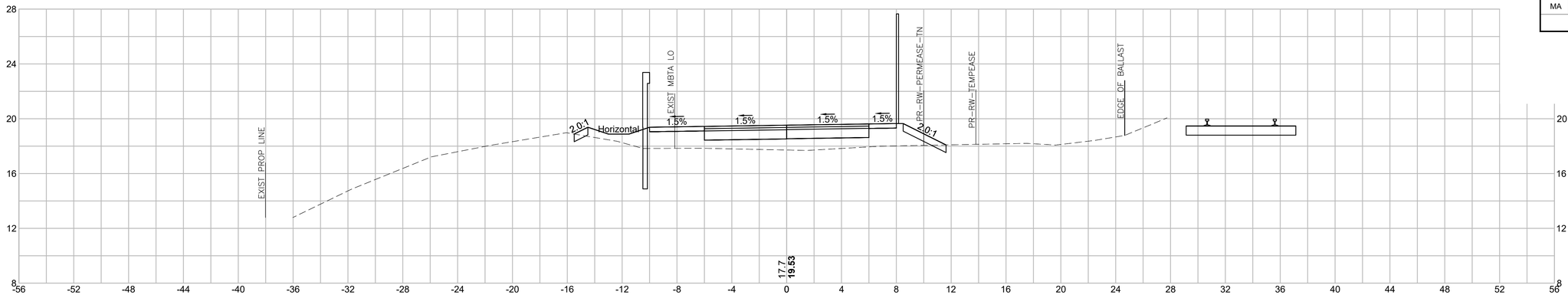
609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:56 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	169	186
PROJECT FILE NO.	609204		

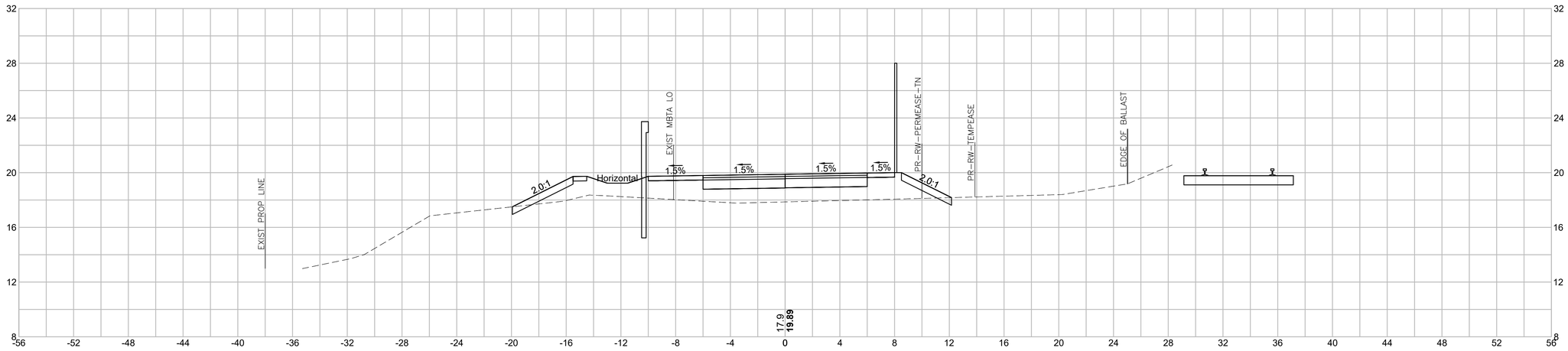
CROSS SECTIONS

947+50



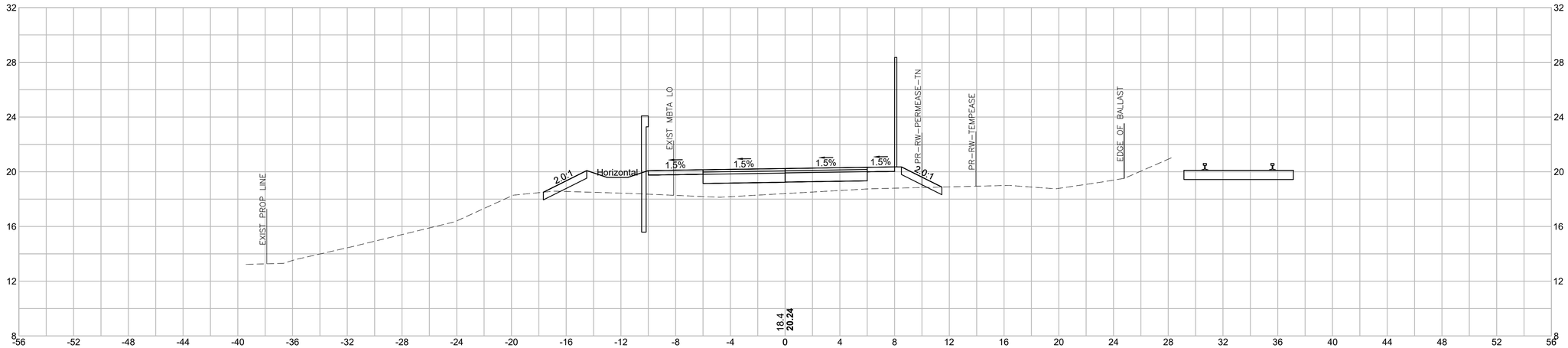
EXCAVATION: 2
EMBANKMENT:20

947+00



EXCAVATION: 2
EMBANKMENT:31

946+50



EXCAVATION: 2
EMBANKMENT:28

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:57 PM

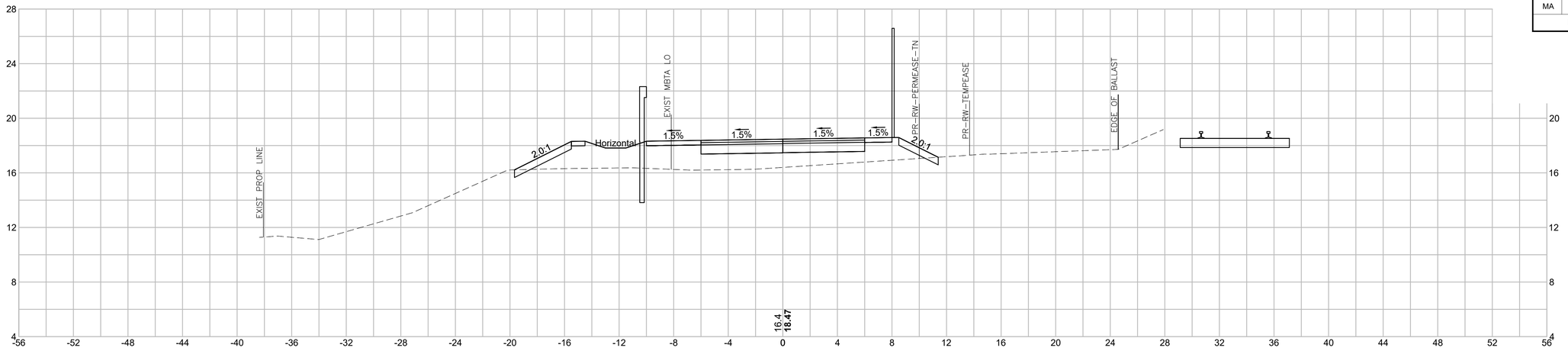
609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:57 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	170	186
PROJECT FILE NO.	609204		

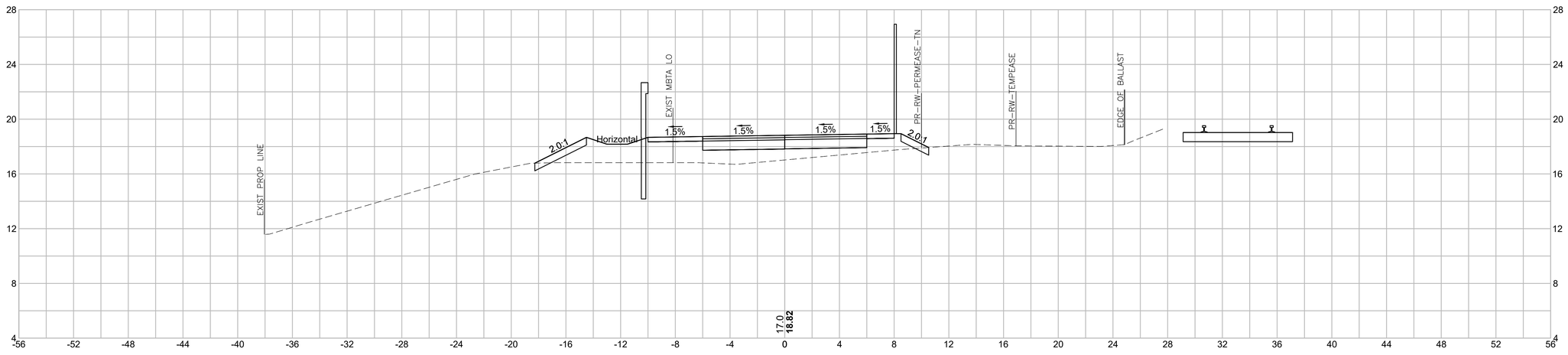
CROSS SECTIONS

949+00



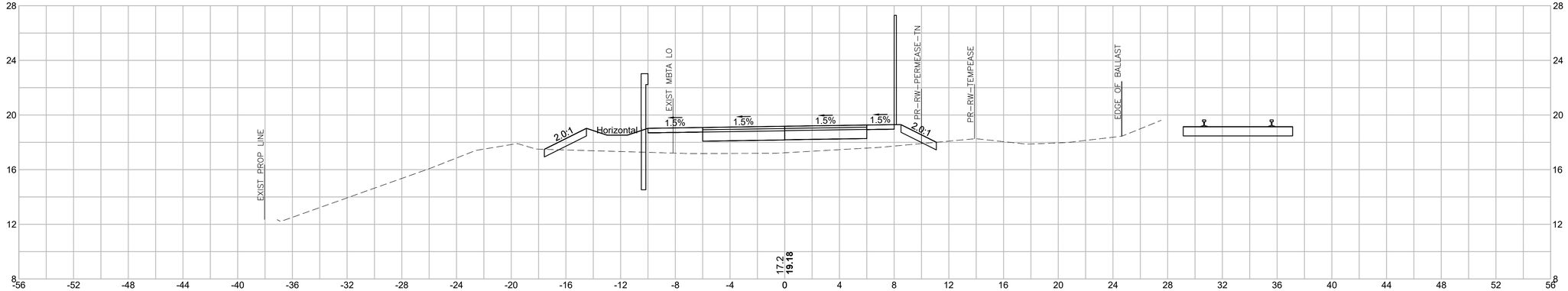
EXCAVATION: 1
EMBANKMENT:35

948+50



EXCAVATION: 2
EMBANKMENT:28

948+00



EXCAVATION: 1
EMBANKMENT:29

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:57 PM

609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:57 PM

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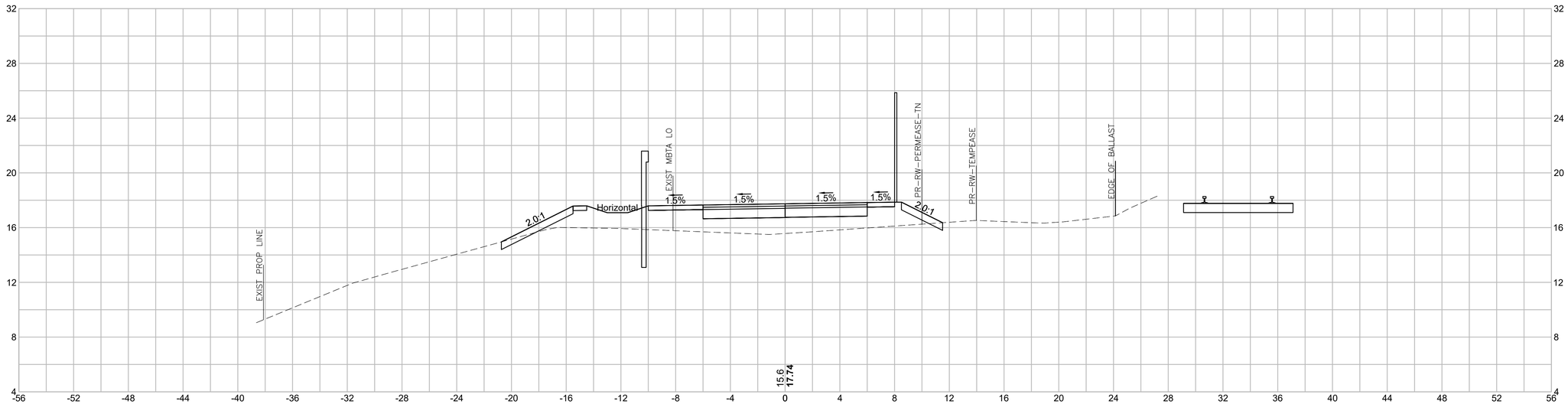
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	171	186
PROJECT FILE NO.	609204		

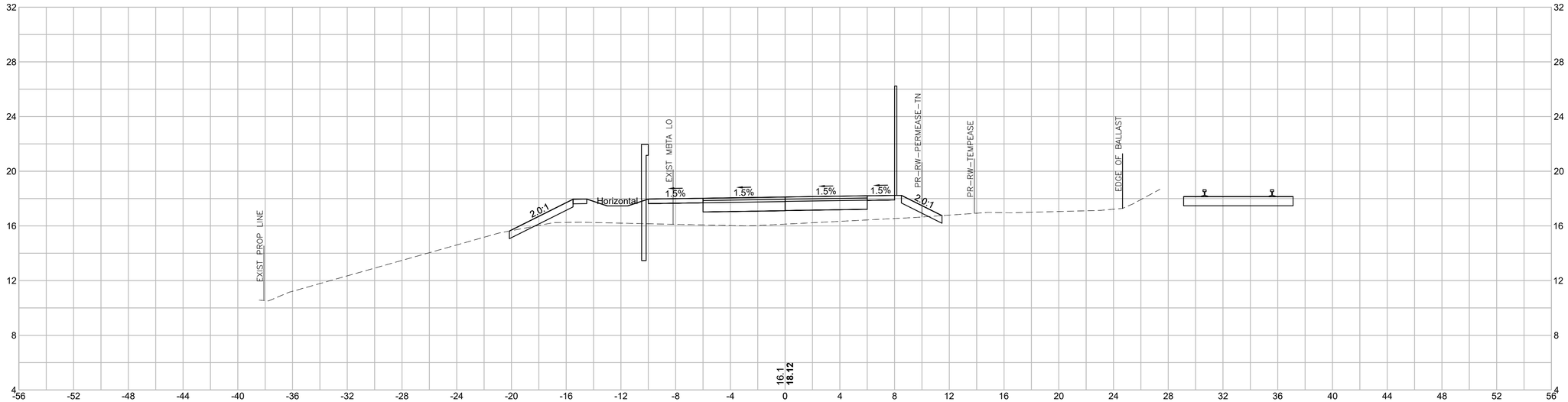
CROSS SECTIONS

950+00



EXCAVATION: 2
EMBANKMENT:32

949+50



EXCAVATION: 2
EMBANKMENT:31

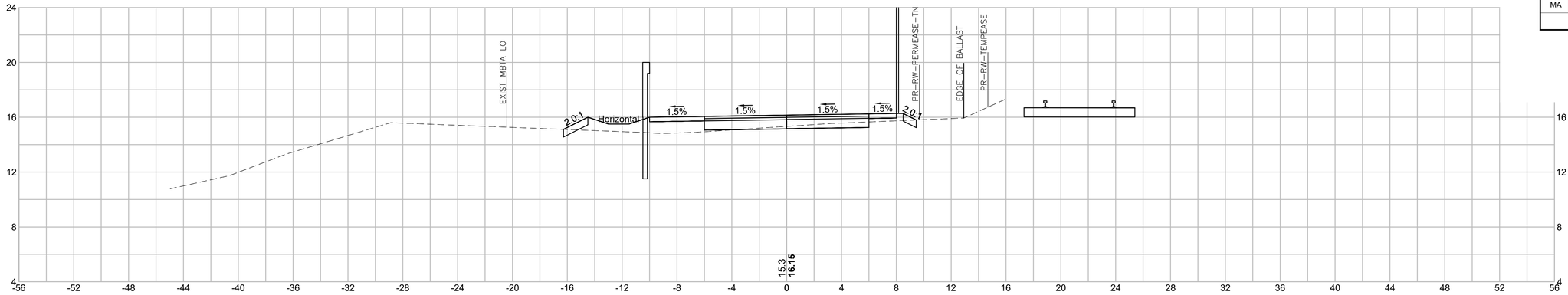
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	172	186
PROJECT FILE NO.	609204		

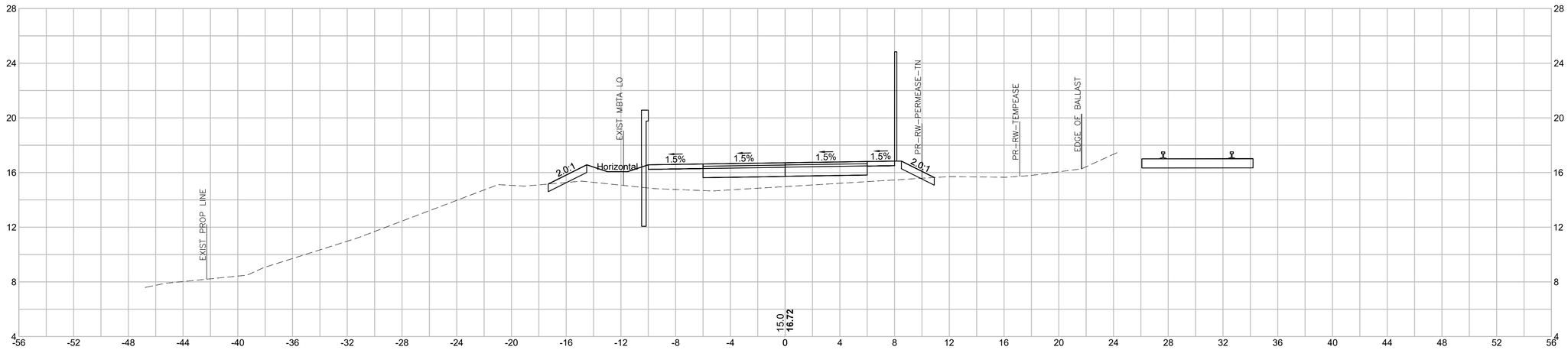
CROSS SECTIONS

951+50



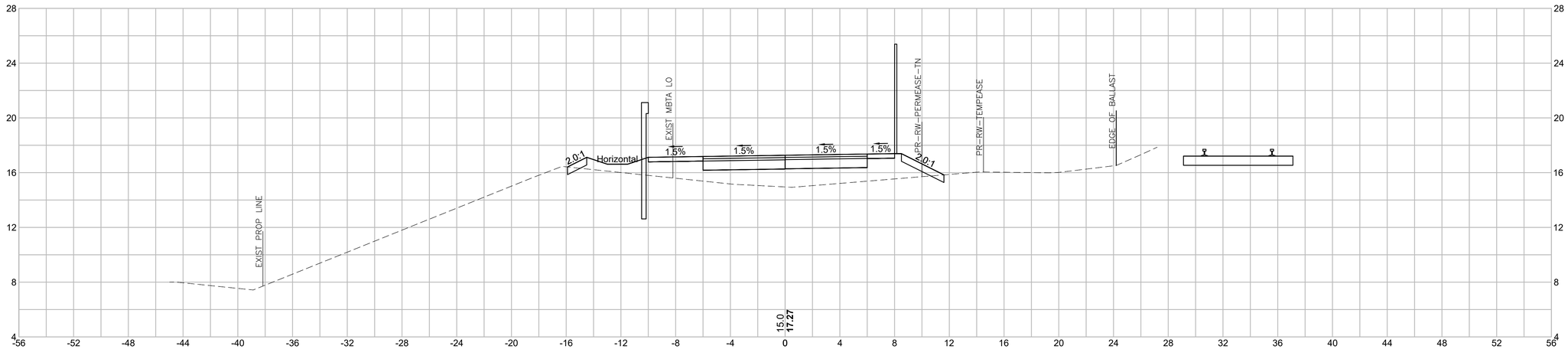
EXCAVATION: 4
EMBANKMENT:9

951+00



EXCAVATION: 2
EMBANKMENT:25

950+50



EXCAVATION: 2
EMBANKMENT:28

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

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 2/7/2025 1:58 PM

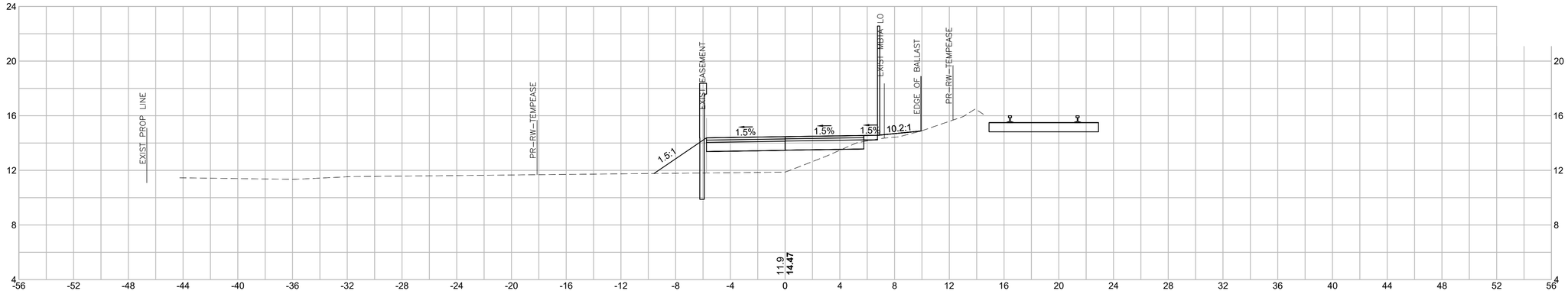
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	173	186
PROJECT FILE NO.	609204		

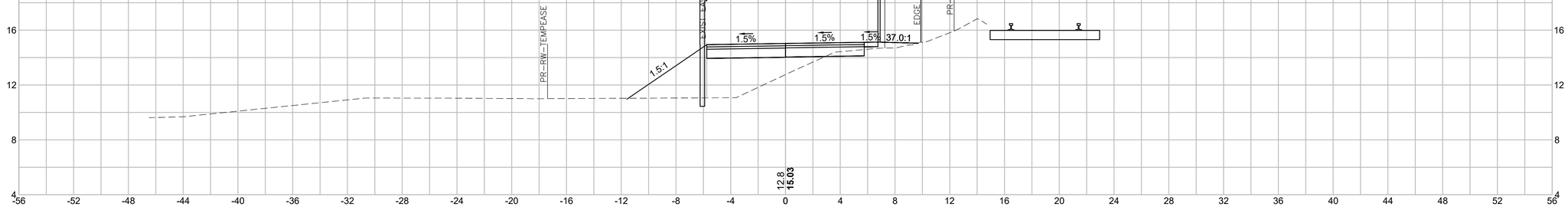
CROSS SECTIONS

953+00



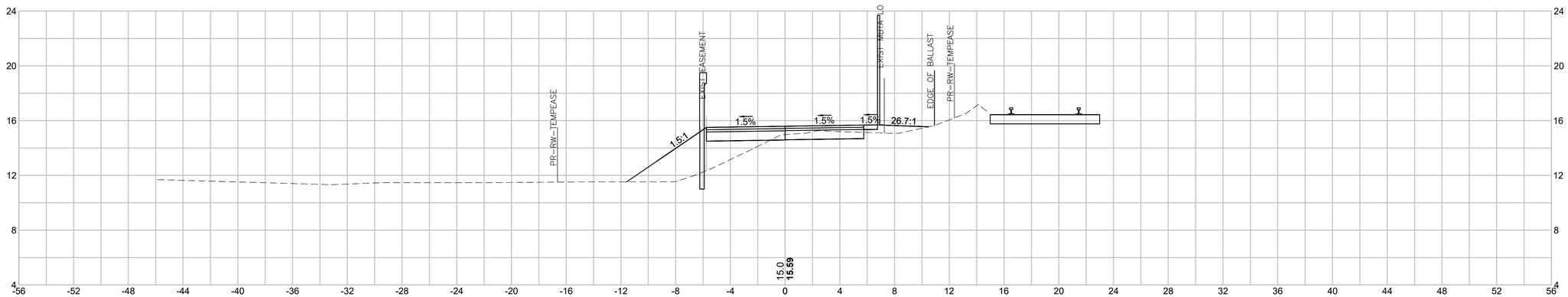
EXCAVATION: 7
EMBANKMENT:1

952+50



EXCAVATION: 10
EMBANKMENT:1

952+00



EXCAVATION: 9
EMBANKMENT:1

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:59 PM

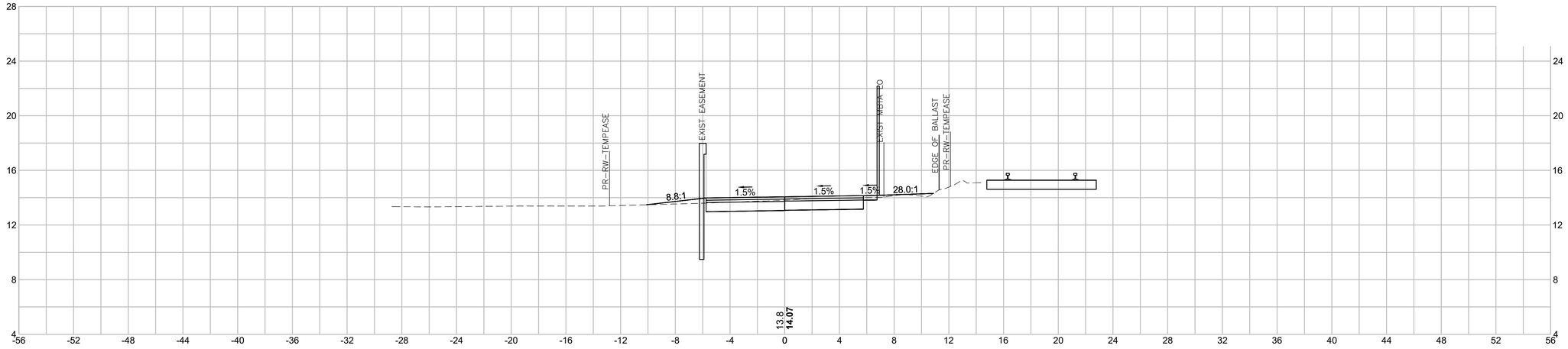
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	174	186
PROJECT FILE NO.	609204		

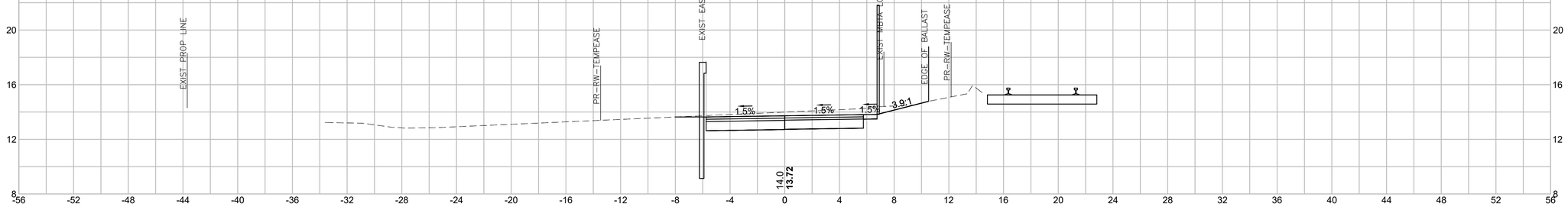
CROSS SECTIONS

954+50



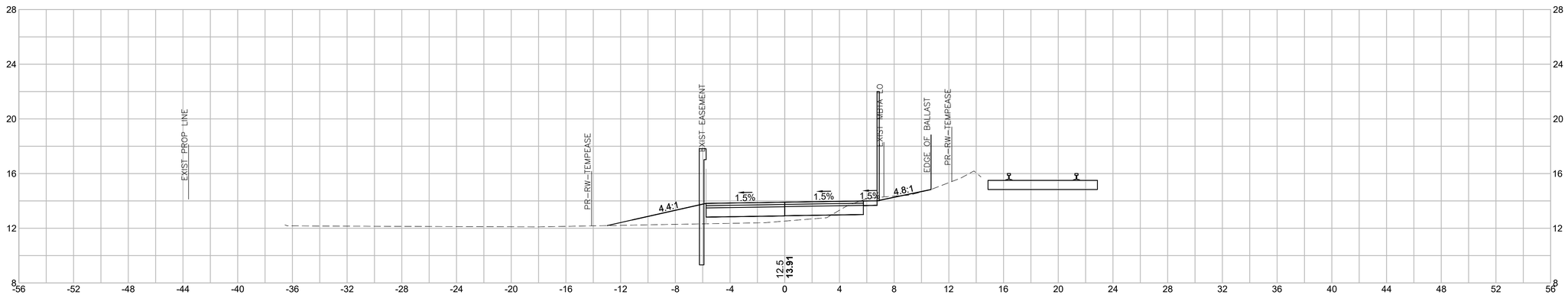
EXCAVATION: 11
EMBANKMENT:1

954+00



EXCAVATION: 11
EMBANKMENT:2

953+50



EXCAVATION: 12
EMBANKMENT:3

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 1:59 PM

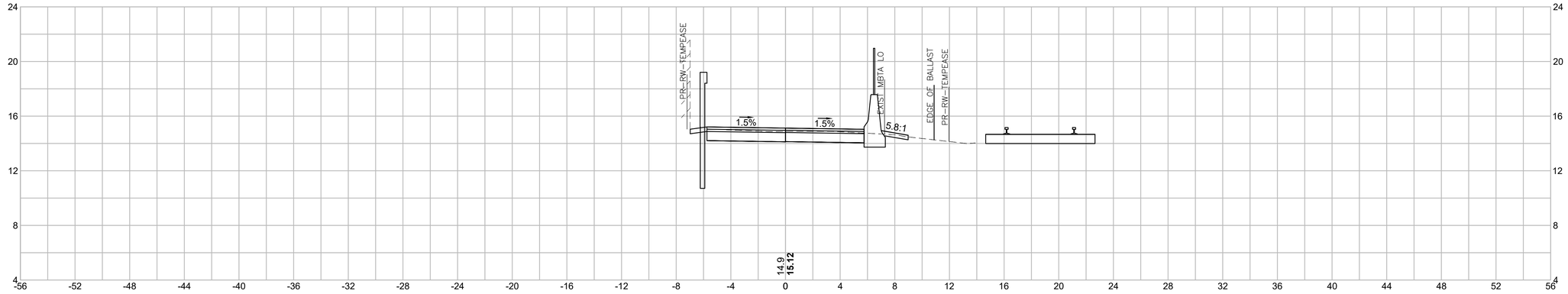
609204_HD(XSECT-REV).DWG Plotted on Feb-25 1:59 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	175	186
PROJECT FILE NO.	609204		

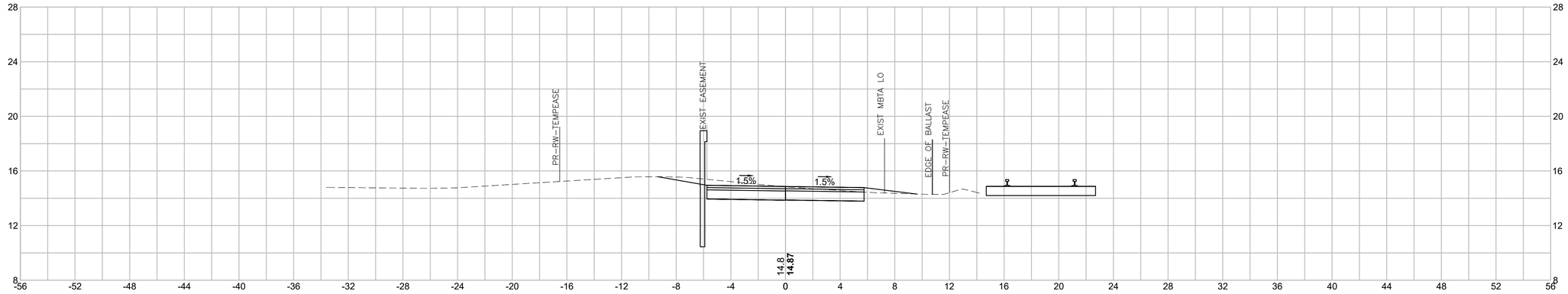
CROSS SECTIONS

956+00



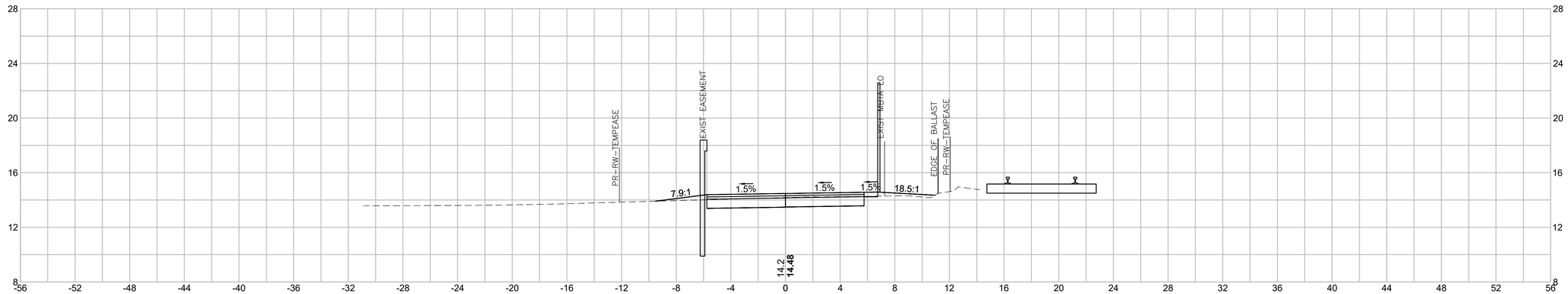
EXCAVATION: 85
EMBANKMENT:0

955+50



EXCAVATION: 17
EMBANKMENT:0

955+00



EXCAVATION: 10
EMBANKMENT:1

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

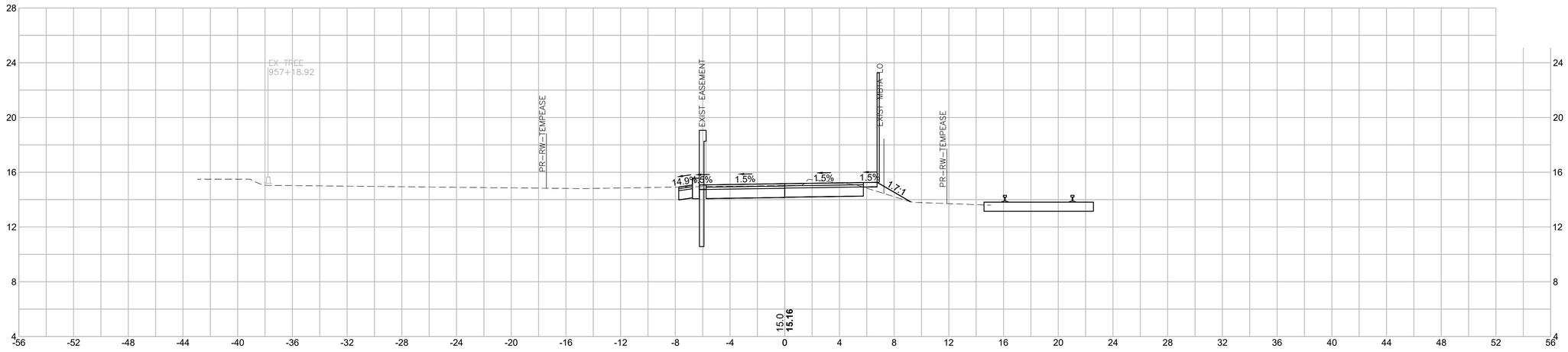
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609204_HD(XSECT-REV).DWG Plotted on Feb-25 2:00 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	176	186
PROJECT FILE NO.	609204		

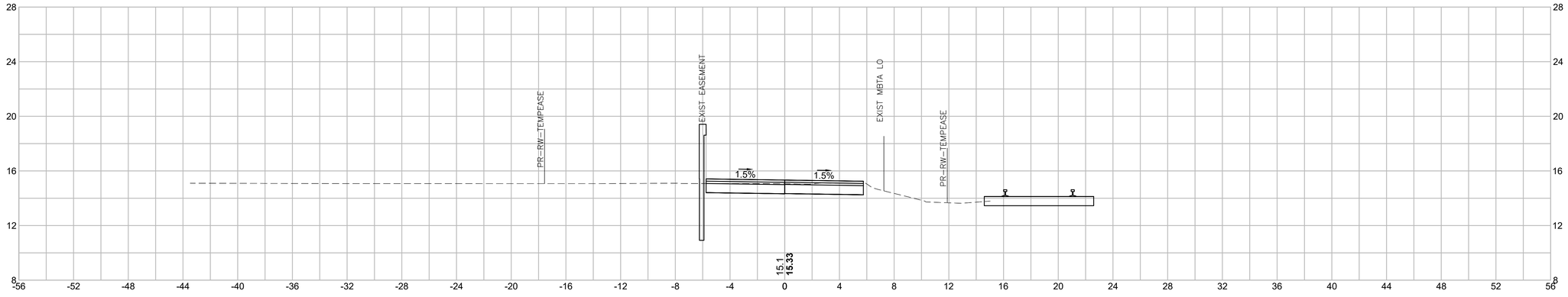
CROSS SECTIONS

957+00



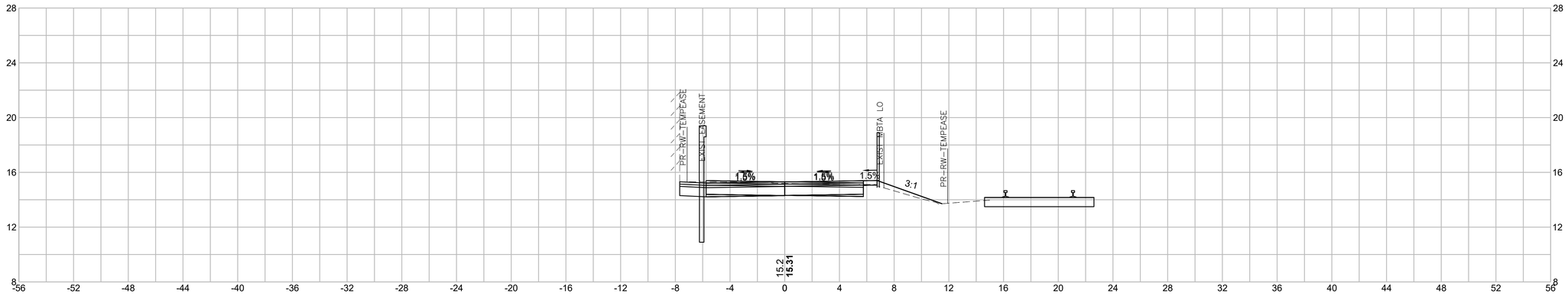
EXCAVATION: 13
EMBANKMENT:1

956+75



EXCAVATION: 10
EMBANKMENT:2

956+50



EXCAVATION: 88
EMBANKMENT:0

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

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 2:00 PM

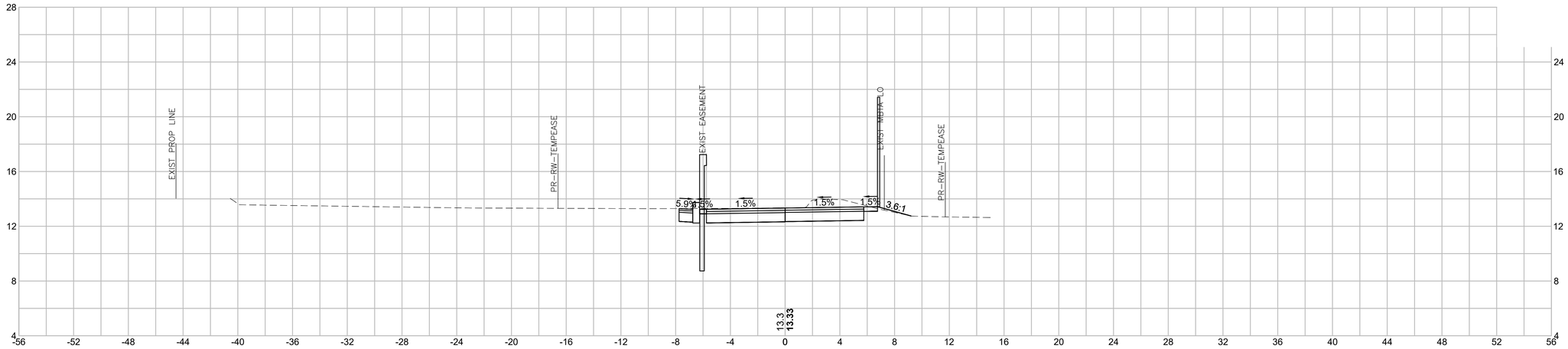
609204_HD(XSECT-REV).DWG Plotted on Feb-25 2:00 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	177	186
PROJECT FILE NO.	609204		

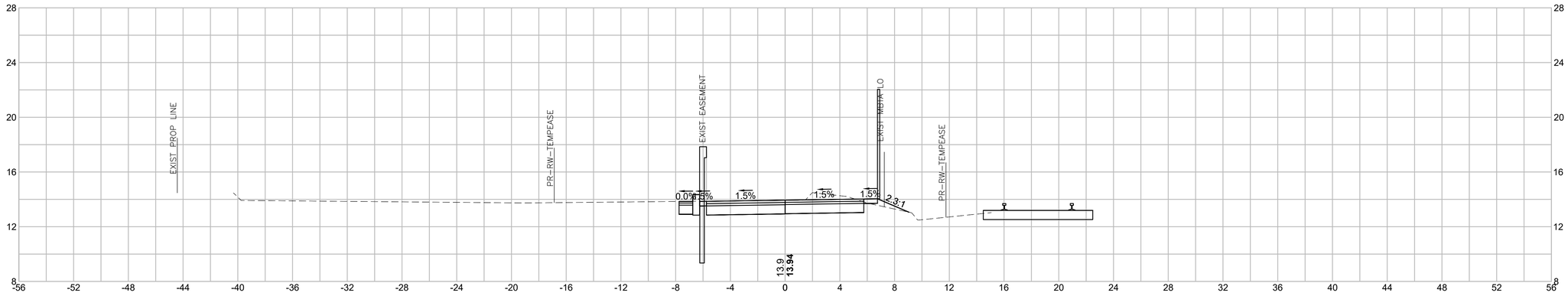
CROSS SECTIONS

958+50



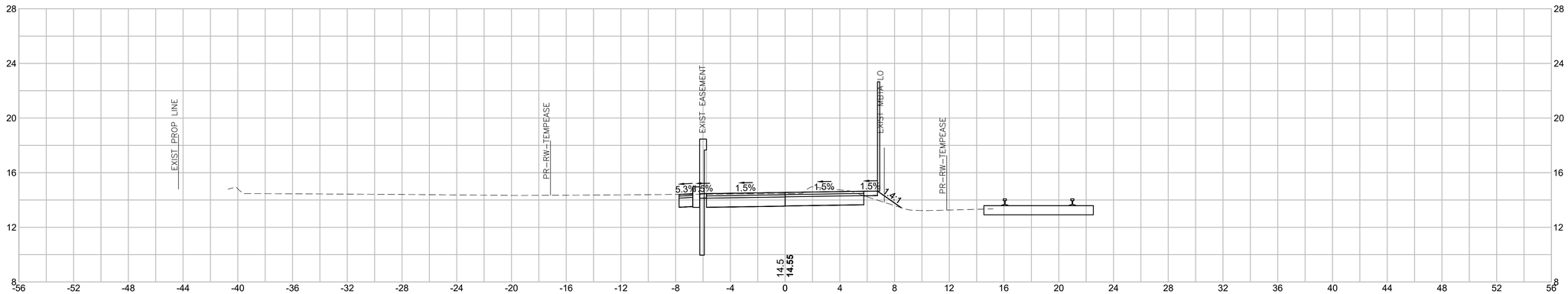
EXCAVATION: 17
EMBANKMENT:0

958+00



EXCAVATION: 15
EMBANKMENT:1

957+50



EXCAVATION: 14
EMBANKMENT:1

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

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 2:01 PM

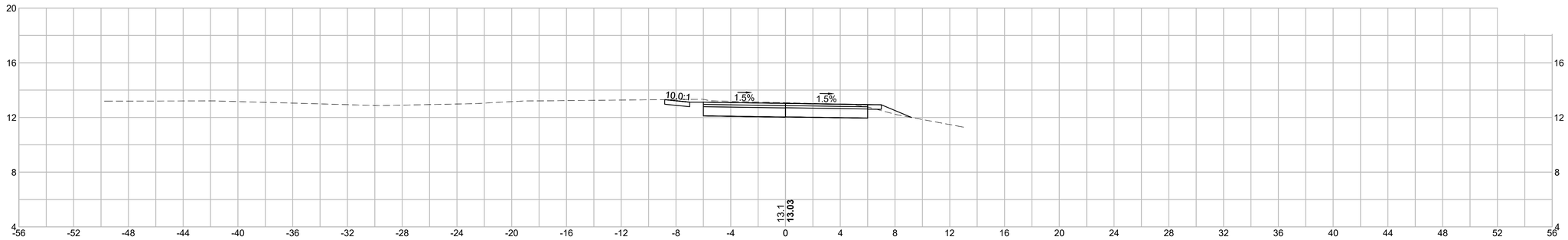
609204_HD(XSECT-REV).DWG Plotted on Feb-25 2:01 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

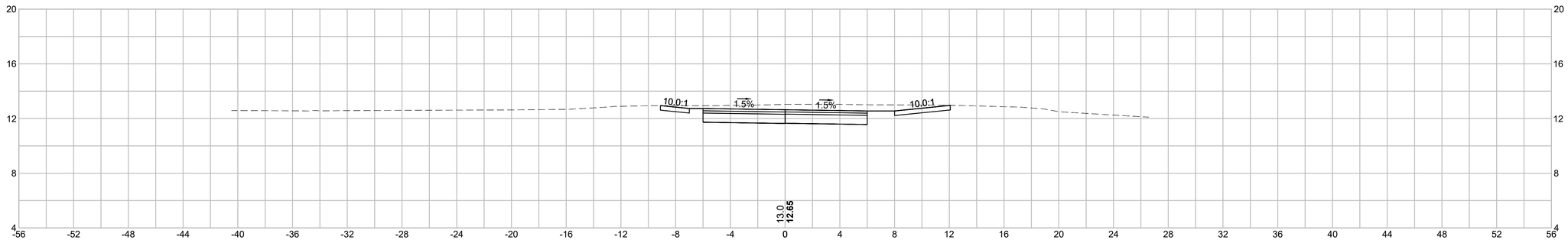
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	178	186
PROJECT FILE NO.	609204		

CROSS SECTIONS

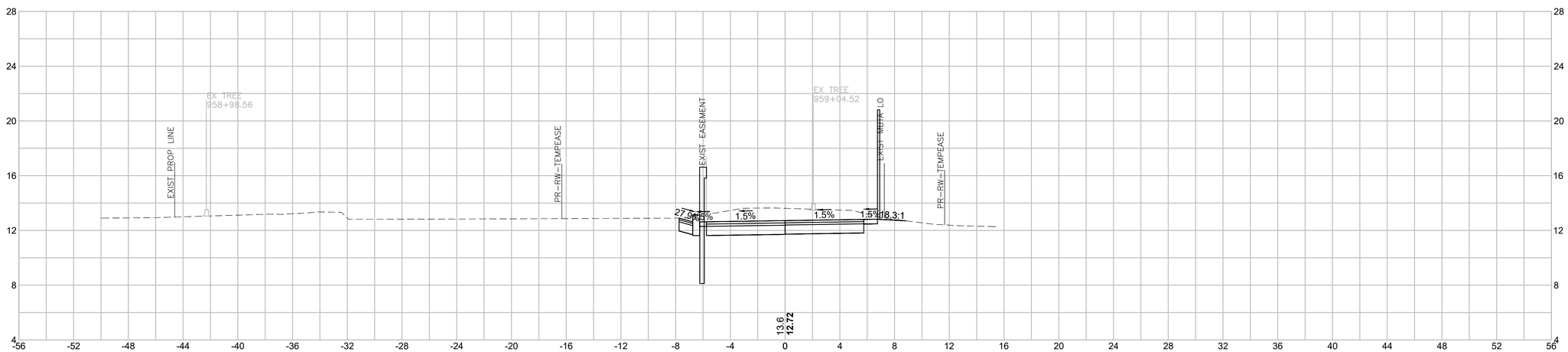
960+50



960+00



959+00



EXCAVATION: 25
EMBANKMENT: 0

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 2:02 PM

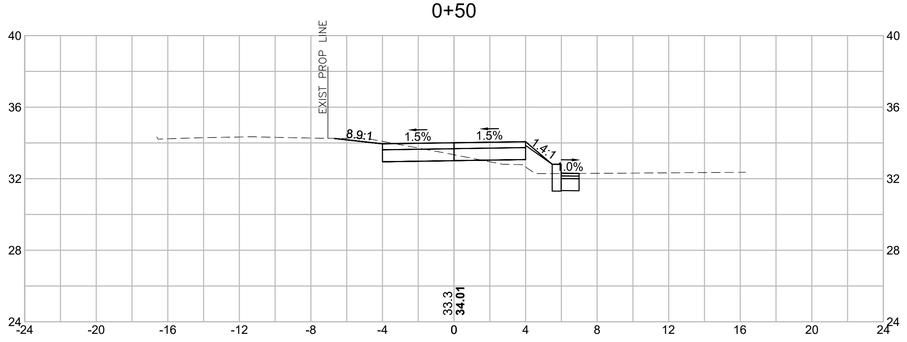
609204_HD(XSECT-REV).DWG Plotted on Feb-25 2:02 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	179	186
PROJECT FILE NO.	609204		

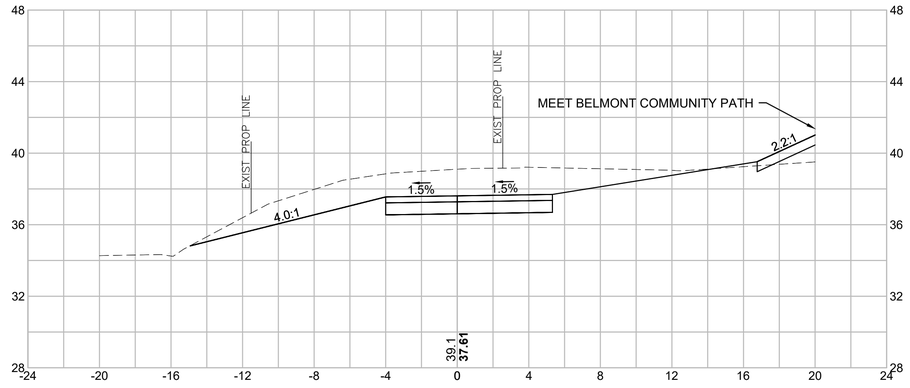
CROSS SECTIONS

0+50



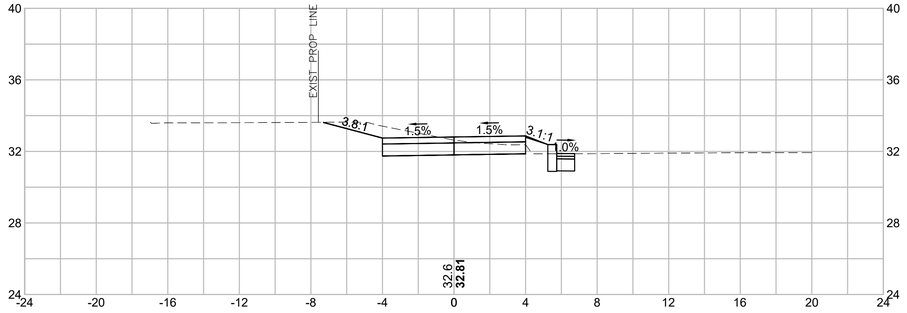
EXCAVATION: 5
EMBANKMENT: 2

1+25



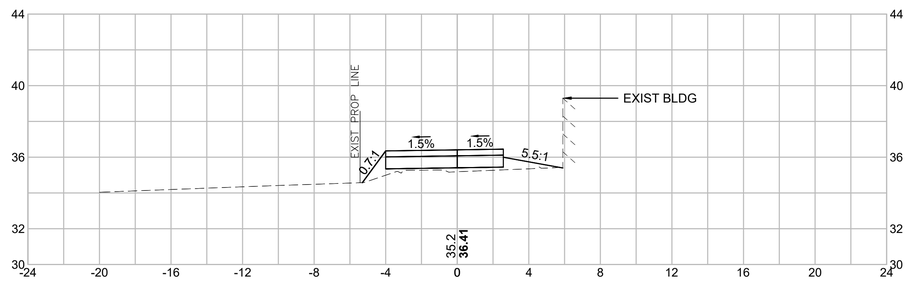
EXCAVATION: 38
EMBANKMENT: 16

0+25



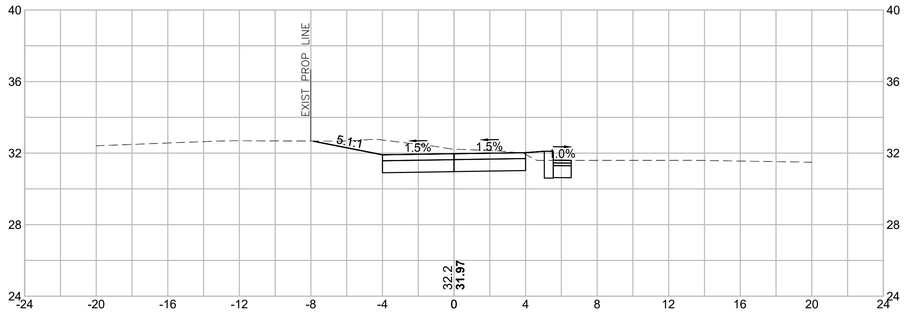
EXCAVATION: 10
EMBANKMENT: 1

1+00



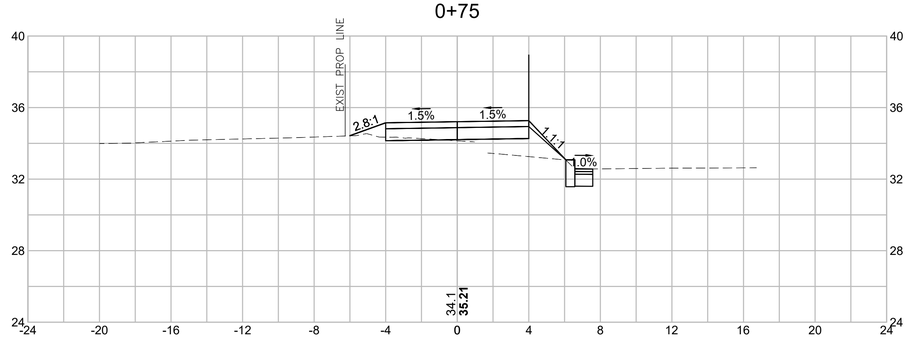
EXCAVATION: 0
EMBANKMENT: 3

0+05



EXCAVATION: 14
EMBANKMENT: 0

0+75



EXCAVATION: 2
EMBANKMENT: 5

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

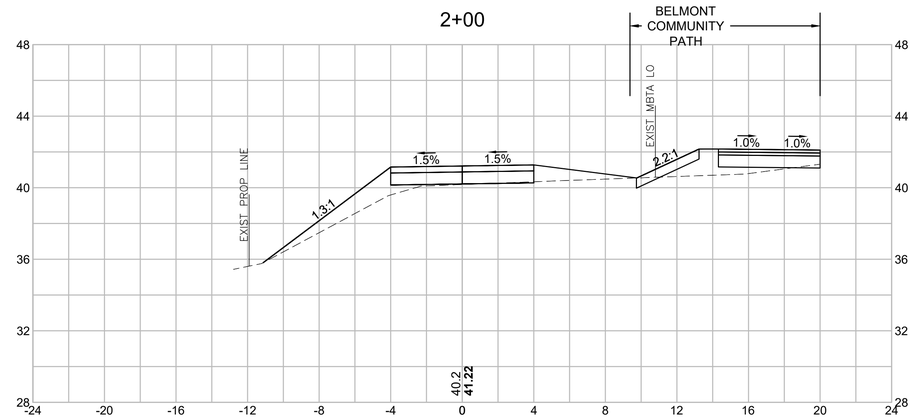
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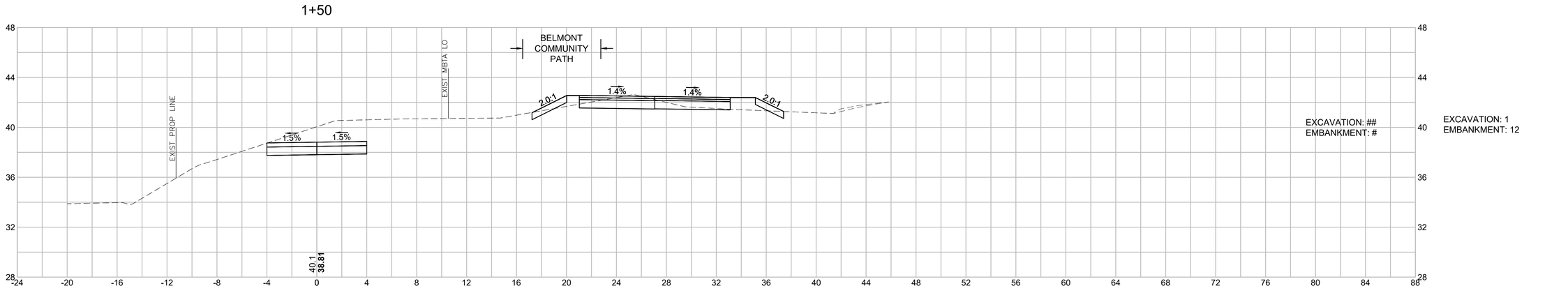
609204_HD(XSECT-REV).DWG Plotted on Feb-25 2:02 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	180	186
PROJECT FILE NO.	609204		

CROSS SECTIONS





EXCAVATION: ##
EMBANKMENT: #

EXCAVATION: 1
EMBANKMENT: 12

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

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 2/7/2025 2:03 PM

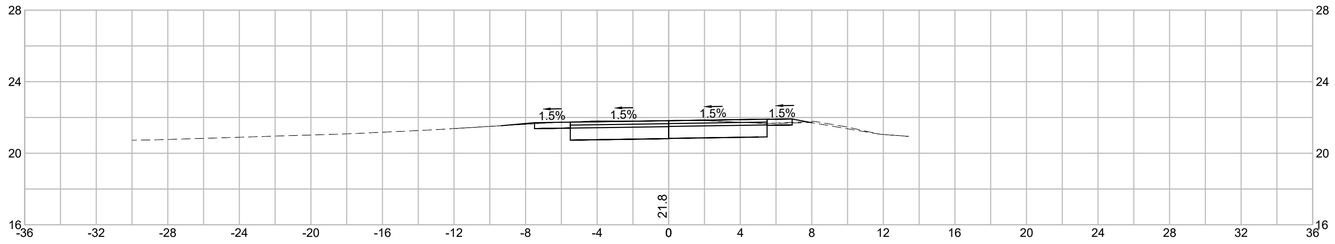
609204_HD(XSECT-REV).DWG Plotted on Feb-25 2:03 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	181	186
PROJECT FILE NO.	609204		

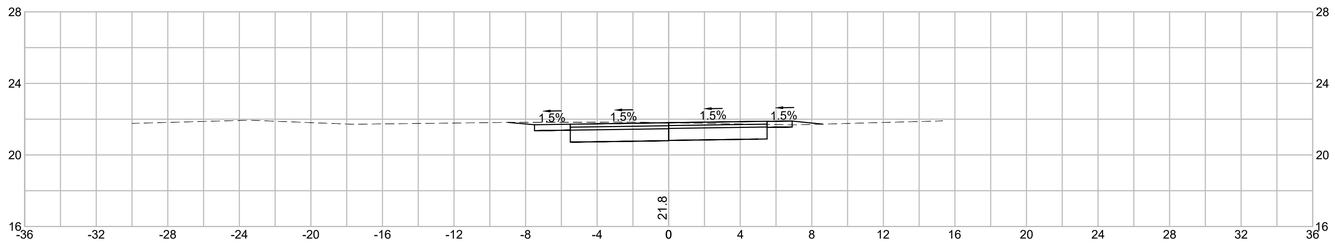
CROSS SECTIONS

501+00



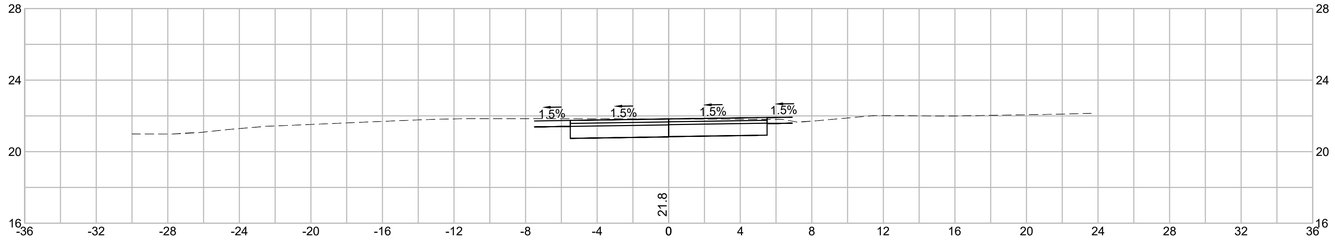
EXCAVATION: 95
EMBANKMENT: 0

500+50



EXCAVATION: 56
EMBANKMENT: 0

500+25



EXCAVATION: 36
EMBANKMENT: 0

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 2:03 PM

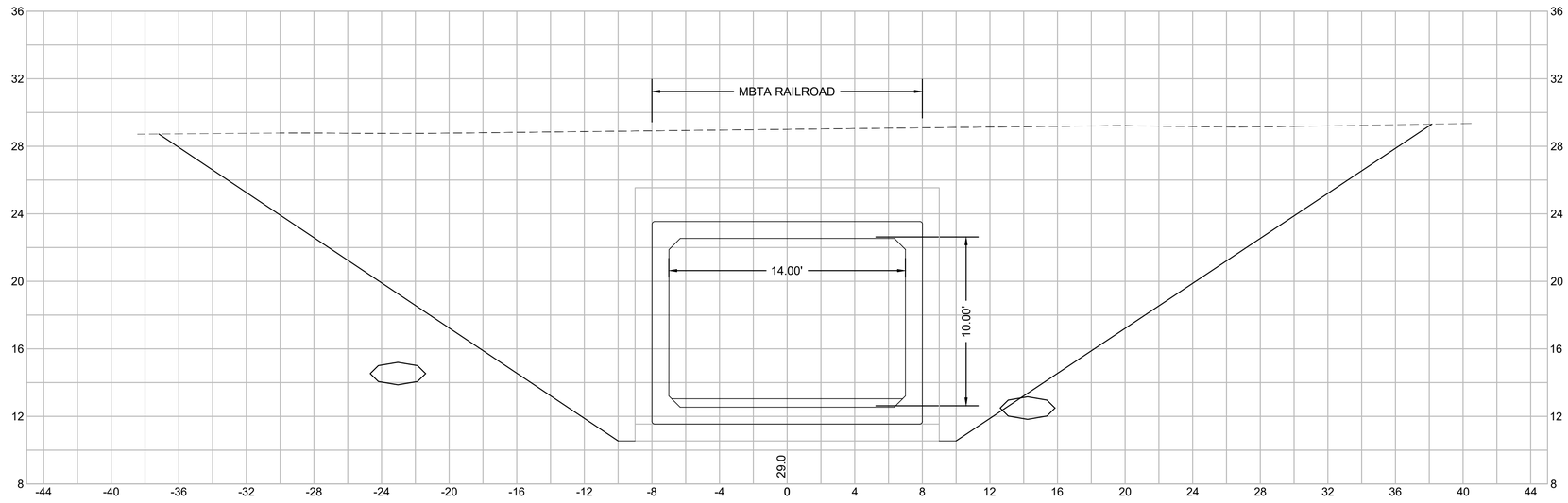
609204_HD(XSECT-REV).DWG Plotted on Feb-25 2:03 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	182	186
PROJECT FILE NO.	609204		

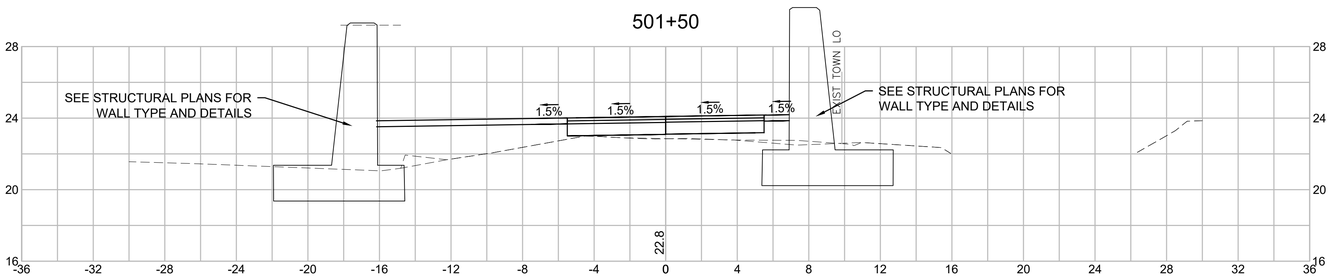
CROSS SECTIONS

502+50



EXCAVATION: 197
EMBANKMENT: 0

501+50



EXCAVATION: 225
EMBANKMENT: 0

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

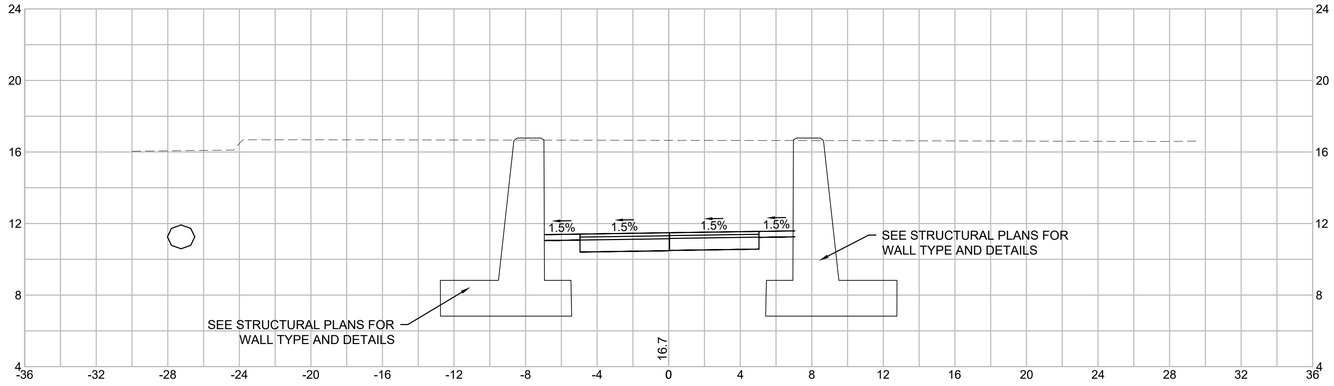
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609204_HD(XSECT-REV).DWG Plotted on Feb-25 2:04 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

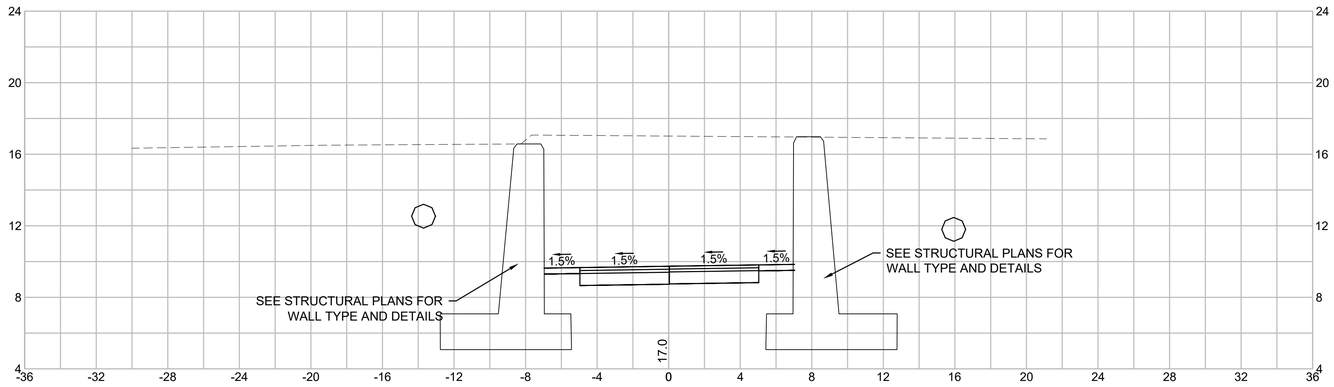
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	183	186
PROJECT FILE NO.	609204		

CROSS SECTIONS

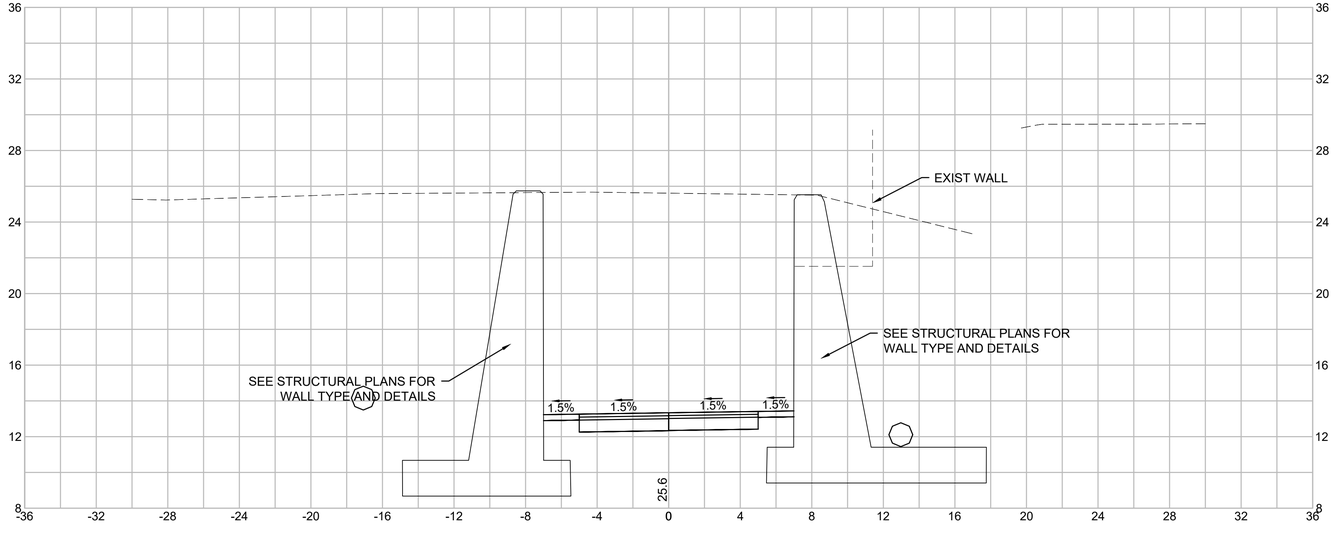
504+00



503+50



503+00



EXCAVATION: 285
EMBANKMENT: 0

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

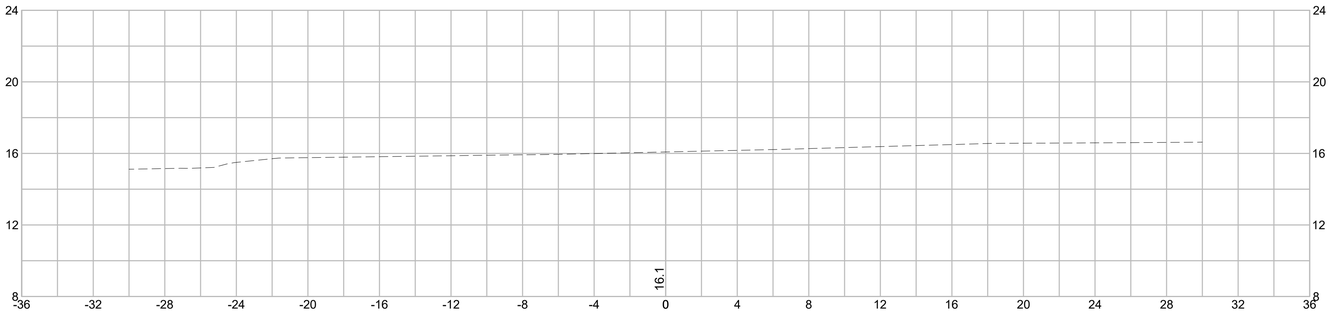
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609204_HD(XSECT-REV).DWG Plotted on Feb-25 2:04 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

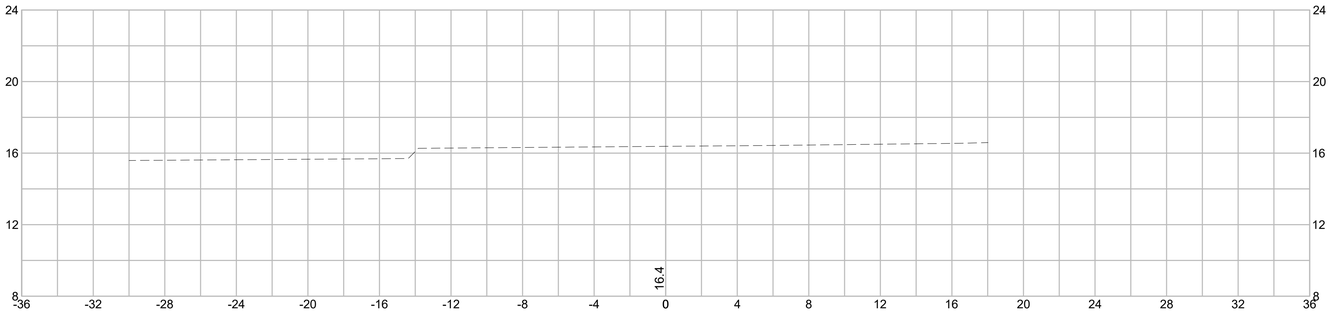
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	184	186
PROJECT FILE NO.	609204		

CROSS SECTIONS

505+00



504+50



Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 2:05 PM

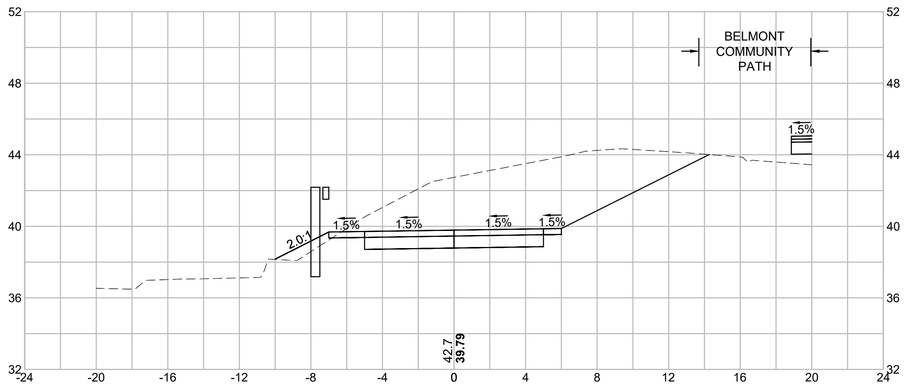
609204_HD(XSECT-REV).DWG Plotted on Feb-25 2:05 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	185	186
PROJECT FILE NO.	609204		

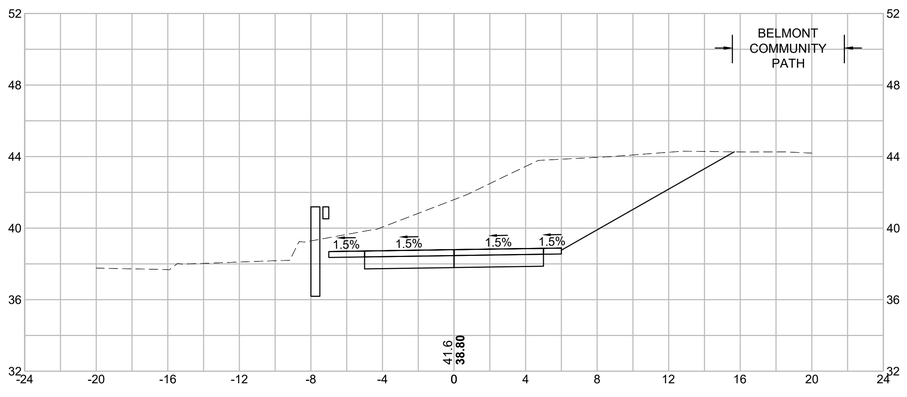
CROSS SECTIONS

50+25



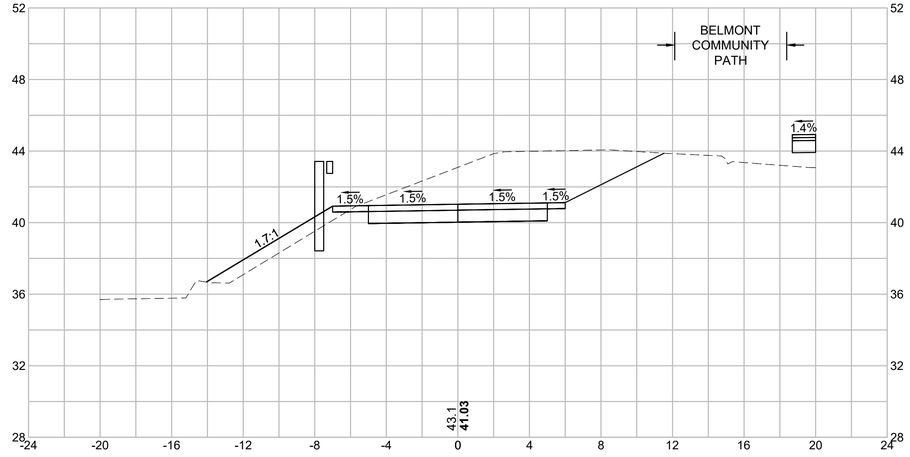
EXCAVATION: 59
EMBANKMENT: 7

50+05



EXCAVATION: 71
EMBANKMENT: 3

50+50



EXCAVATION: 42
EMBANKMENT: ##

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 2:06 PM

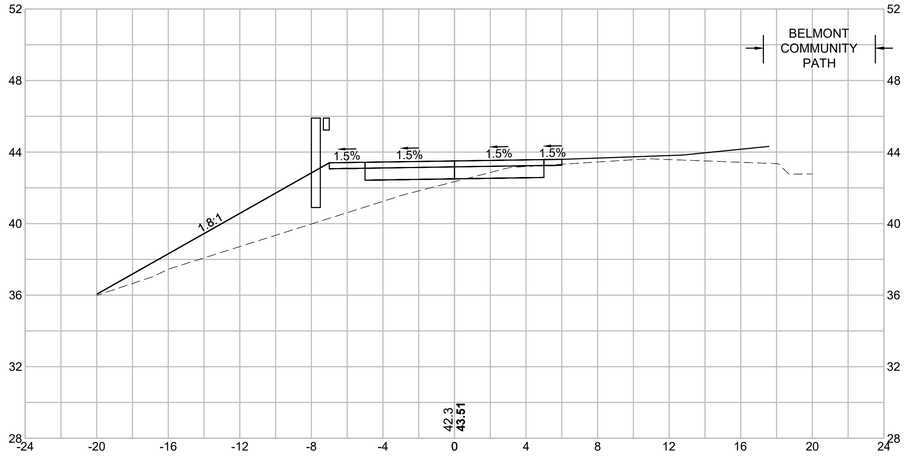
609204_HD(XSECT-REV).DWG Plotted on Feb-25 2:06 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	186	186
PROJECT FILE NO.	609204		

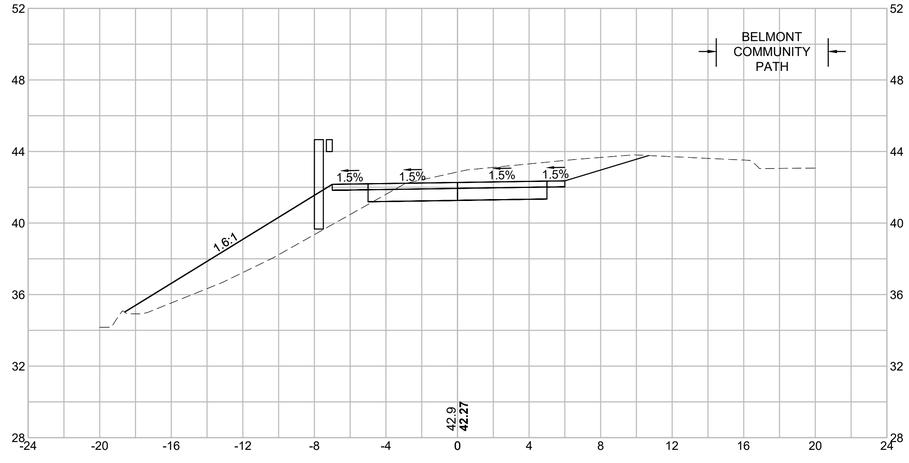
CROSS SECTIONS

51+00



EXCAVATION: 36
EMBANKMENT: 3

50+75



EXCAVATION: 20
EMBANKMENT: 28

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 2/7/2025 2:06 PM

609204_HD(XSECT-REV).DWG Plotted on Feb-25 2:06 PM