MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

PLAN OF

RESURFACING AND RELATED WORK ON

ROUTE 33

IN THE CITY & TOWN OF

CHICOPEE-SOUTH HADLEY

HAMPDEN - HAMPSHIRE COUNTY

FEDERAL AID PROJECT NO. NHP(NHS)-0032(048)X

CHICOPEE-SOUTH HADLEY
ROUTE 33

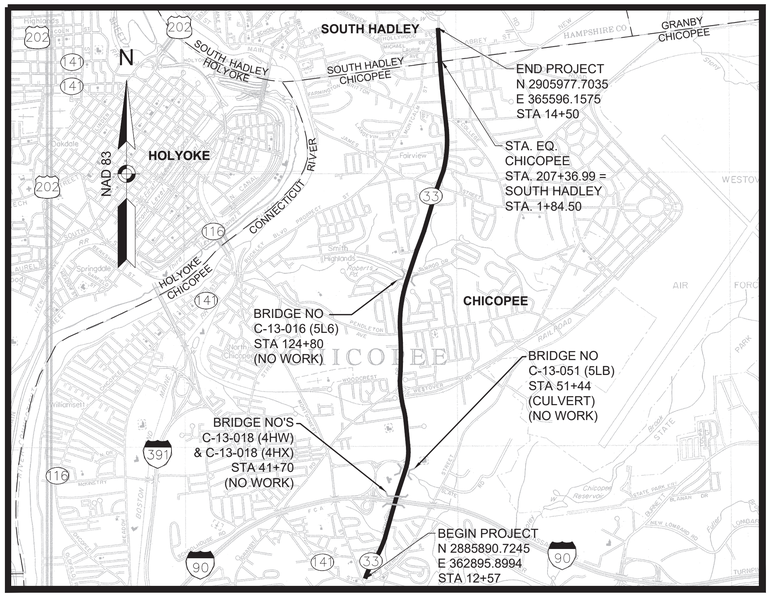
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	1	59
PROJECT FILE NO.	612109		

TITLE SHEET

612109-HD-1-LOCUS.DWG Plotted on 25-Jun-2025 1:18 PM

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

INDEX



0 2600 5200 7800 10400

SCALE: 1" = 2600'

LENGTH OF PROJECT = 20,743.00.00 FEET = 3.929 MILES

DESIGN DESIGNATION (ROUTE 33)

DESIGN SPEED	POSTED SPEED LIMIT: 30/35/40 MPH 1975 PLANS: 50 MPH
ADT (2022)	25,025
ADT (2042)	33,705
K	9%
D	53%
T (PEAK HOUR)	2.77%
T (AVERAGE DAY)	2.40%
DHV	2,252
DDHV	1,194
FUNCTIONAL CLASSIFICATION	MAJOR ARTERIAL (NHS)

DATE	DESCRIPTION	REV #

MassDOT
Massachusetts Department of Transportation
Highway Division

APPROVED

Carrie Lavallee, P.E. Carrie Lavallee, P.E. 2025.06.27 09:27:50 -04'00'

CHIEF ENGINEER **DATE**

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 BARRIER
		COIR LOG SEDIMENT BARRIER
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

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
	CW	CROSSWALK
	SWL	SOLID WHITE LINE
	SYL	SOLID YELLOW LINE
	BWL	BROKEN WHITE LINE
	BYL	BROKEN YELLOW LINE
	DWL	DOTTED WHITE LINE
	DYL	DOTTED YELLOW LINE
	DWLEx	DOTTED WHITE LINE EXTENSION
	DYLEx	DOTTED YELLOW LINE EXTENSION
	DBWL	DOUBLE WHITE LINE
	DBYL	DOUBLE YELLOW LINE

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
M&O	MILL & OVERLAY
NIC	NOT IN CONTRACT
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCR	PEDESTRIAN CURB RAMP
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PSB	PLANTABLE SOIL BORROW
PT	POINT OF TANGENCY

CHICOPEE-SOUTH HADLEY
ROUTE 33

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LEGEND & ABBREVIATIONS

ABBREVIATIONS (cont.)

GENERAL

PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

TRAFFIC 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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CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	3	59
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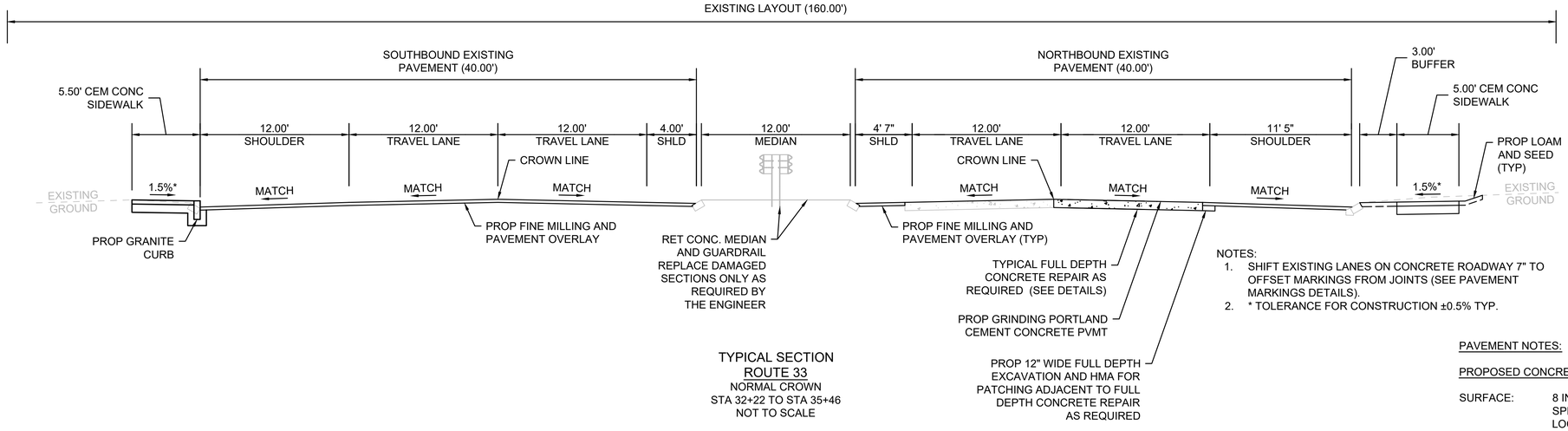
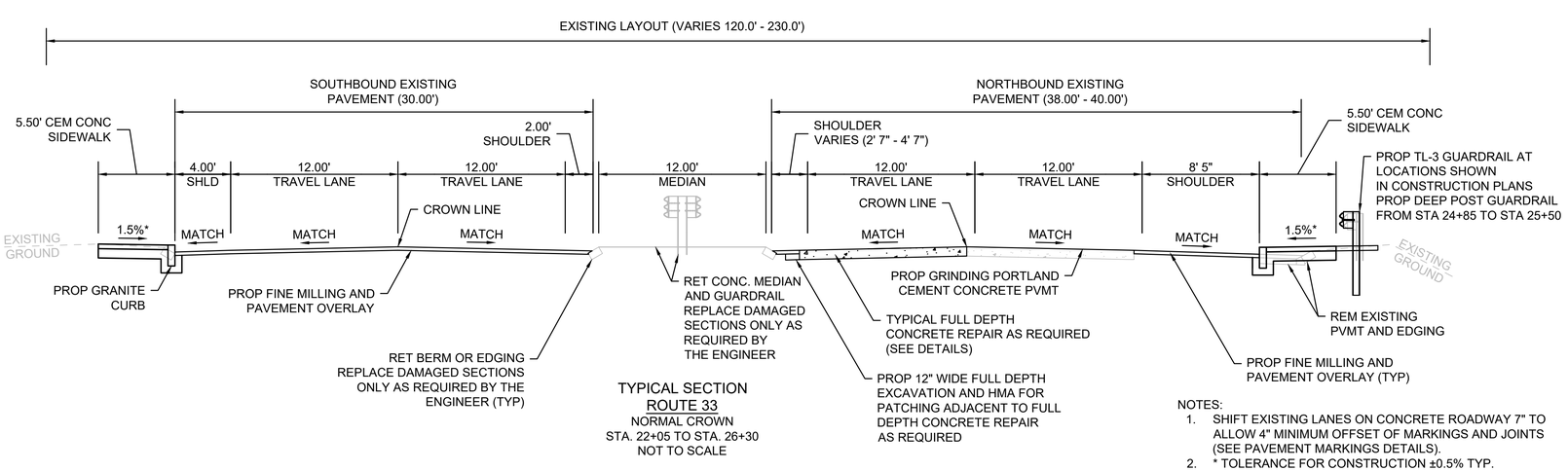
TYPICAL SECTIONS



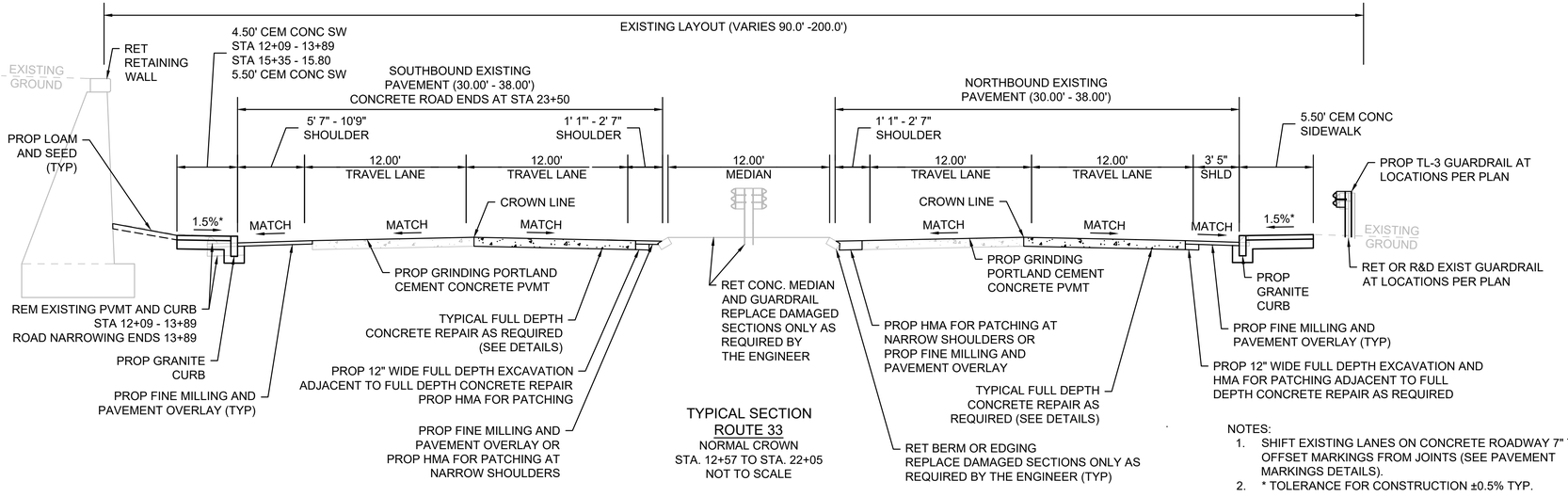
TYPICAL SECTION
ROUTE 33
NORMAL CROWN
STA 32+22 TO STA 35+46
NOT TO SCALE

NOTES:
1. SHIFT EXISTING LANES ON CONCRETE ROADWAY 7" TO OFFSET MARKINGS FROM JOINTS (SEE PAVEMENT MARKINGS DETAILS).
2. * TOLERANCE FOR CONSTRUCTION ±0.5% TYP.



TYPICAL SECTION
ROUTE 33
NORMAL CROWN
STA. 22+05 TO STA. 26+30
NOT TO SCALE

NOTES:
1. SHIFT EXISTING LANES ON CONCRETE ROADWAY 7" TO ALLOW 4" MINIMUM OFFSET OF MARKINGS AND JOINTS (SEE PAVEMENT MARKINGS DETAILS).
2. * TOLERANCE FOR CONSTRUCTION ±0.5% TYP.



TYPICAL SECTION
ROUTE 33
NORMAL CROWN
STA. 12+57 TO STA. 22+05
NOT TO SCALE

NOTES:
1. SHIFT EXISTING LANES ON CONCRETE ROADWAY 7" TO OFFSET MARKINGS FROM JOINTS (SEE PAVEMENT MARKINGS DETAILS).
2. * TOLERANCE FOR CONSTRUCTION ±0.5% TYP.

PAVEMENT NOTES:

PROPOSED CONCRETE PAVEMENT REHABILITATION:

SURFACE: 8 INCHES CEMENT CONCRETE PAVEMENT (CONFORM TO MASSDOT STANDARD SPECIFICATIONS M4.06.8)
LOCATIONS TO BE DETERMINED UNDER ITEM 475.60

CLEAN AND RE-SEAL EXISTING LONGITUDINAL AND TRANSVERSE JOINTS

CLEAN AND SEAL RANDOM CRACKS

RESTORE ENTIRE SURFACE WITH DIAMOND GRINDING

PROPOSED FINE MILLING AND RESURFACING - SHOULDERS ADJACENT TO CEMENT CONCRETE PAVEMENT IN NORTHBOUND DIRECTION

SURFACE: 1.25 INCHES SUPERPAVE SURFACE COURSE - 9.5 POLYMER (SSC-9.5-P) OVER ASPHALT EMULSION TACK COAT

FINE MILLING: 1.25 INCHES PAVEMENT FINE MILLING

ASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED AT A RATE OF 0.07-0.09 GAL/SY OVER FINE MILLED SURFACE.

PROPOSED FINE MILLING AND RESURFACING - TRAVEL LANES, TURNING LANES, ROTARIES, INTERSECTIONS, COMMERCIAL ENTRANCES AT INTERSECTIONS, SHOULDERS NOT ADJACENT TO CEMENT CONCRETE PAVEMENT, AND SOUTHBOUND SHOULDERS ADJACENT TO CEMENT CONCRETE PAVEMENT:

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

FINE MILLING: 1.75 INCHES PAVEMENT FINE MILLING

ASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED AT A RATE OF 0.07-0.09 GAL/SY OVER FINE MILLED SURFACE.

PROPOSED CEMENT CONCRETE CURB RAMPS AND SIDEWALKS:

SURFACE: 4 INCHES CEMENT CONCRETE 4000 PSI 3/4" 610

FOUNDATION: 8 INCHES GRAVEL BORROW, TYPE B

PROPOSED CEMENT CONCRETE SIDEWALKS AT DRIVEWAYS:

SURFACE: 6 INCHES CEMENT CONCRETE 4000 PSI 3/4" 610

FOUNDATION: 8 INCHES GRAVEL BORROW, TYPE B

PROPOSED HOT MIX ASPHALT DRIVEWAY:

SURFACE: 1.5 INCHES SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5)

INTERMEDIATE: 2.5 INCHES SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5)

SUB-BASE: 8 INCHES GRAVEL BORROW, TYPE C

ASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED AT A RATE OF 0.06-0.08 GAL/SY OVER INTERMEDIATE COURSE.

GENERAL NOTES:
1. ALL STATIONING REFERENCED FROM ROUTE 33 ORIGINAL CONSTRUCTION BASELINE (1946).
2. CONTRACTOR SHALL MATCH EXISTING ROADWAY CROSS-SLOPES WITH FULL DEPTH REPAIRS AS WELL AS PROPOSED SHOULDER RECONSTRUCTION.
3. LABELED TRANSITION LOCATIONS BETWEEN MILLING DEPTHS IN THE HMA SURFACE ARE APPROXIMATE AND MAY BE ADJUSTED BASED ON EXISTING FIELD CONDITIONS, AS REQUIRED BY THE ENGINEER. PAVEMENT MILLING AT ALL LOCATIONS IS INTENDED TO PENETRATE INTO THE INTERMEDIATE COURSE BY ¼".

CHICOPEE-SOUTH HADLEY
ROUTE 33

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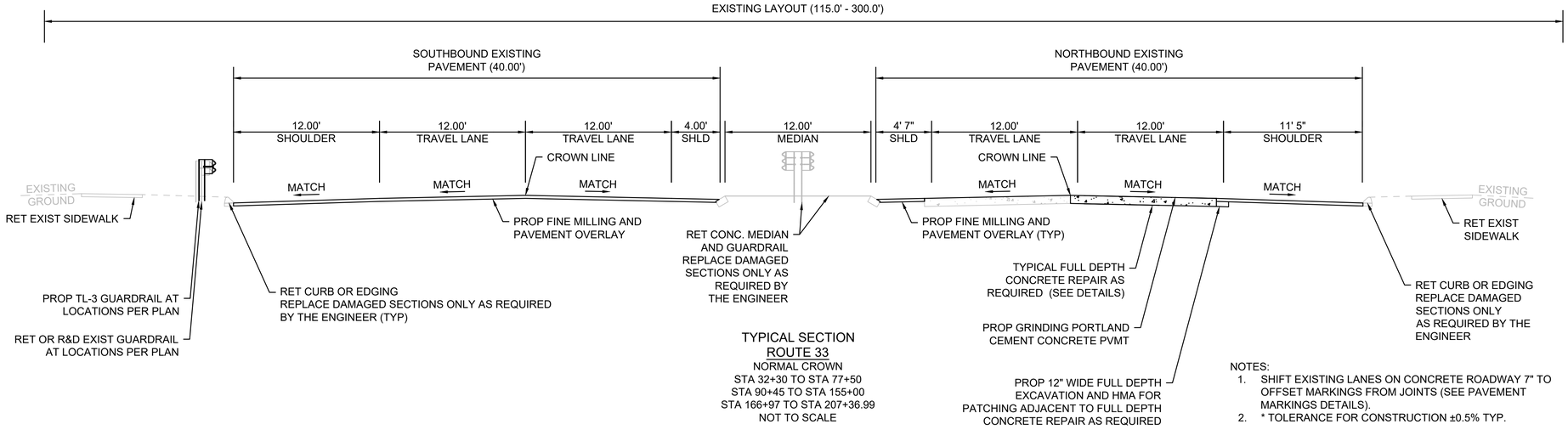
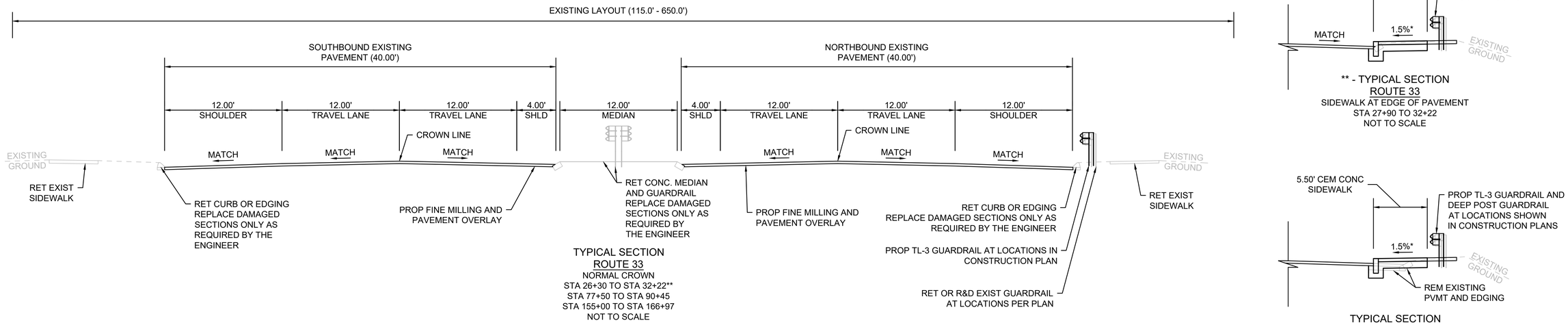
TYPICAL SECTIONS

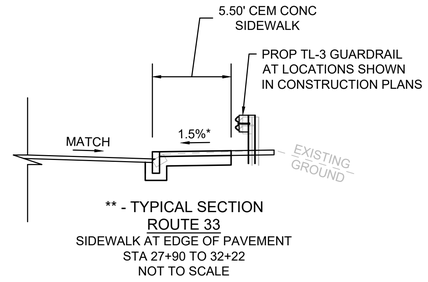


TYPICAL SECTION
ROUTE 33
NORMAL CROWN
STA 32+30 TO STA 77+50
STA 90+45 TO STA 155+00
STA 166+97 TO STA 207+36.99
NOT TO SCALE

NOTES:
1. SHIFT EXISTING LANES ON CONCRETE ROADWAY 7" TO OFFSET MARKINGS FROM JOINTS (SEE PAVEMENT MARKINGS DETAILS).
2. * TOLERANCE FOR CONSTRUCTION ±0.5% TYP.

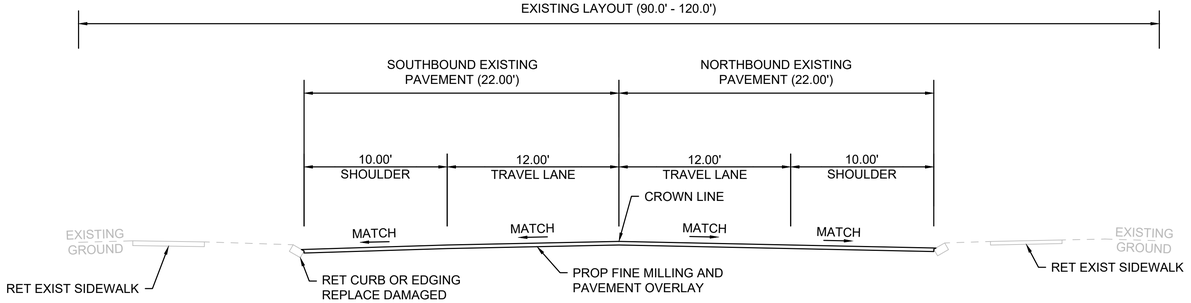


TYPICAL SECTION
ROUTE 33
NORMAL CROWN
STA 26+30 TO STA 32+22**
STA 77+50 TO STA 90+45
STA 155+00 TO STA 166+97
NOT TO SCALE



** - TYPICAL SECTION
ROUTE 33
SIDEWALK AT EDGE OF PAVEMENT
STA 27+90 TO 32+22
NOT TO SCALE

TYPICAL SECTION
ROUTE 33
SIDEWALK AT SHOULDER NARROWING
STA 22+05 TO 27+90
NOT TO SCALE



TYPICAL SECTION
ROUTE 33
NORMAL CROWN
STA 1+84.50 TO STA 14+00 (SOUTH HADLEY)
NOT TO SCALE

CHICOPEE-SOUTH HADLEY
ROUTE 33

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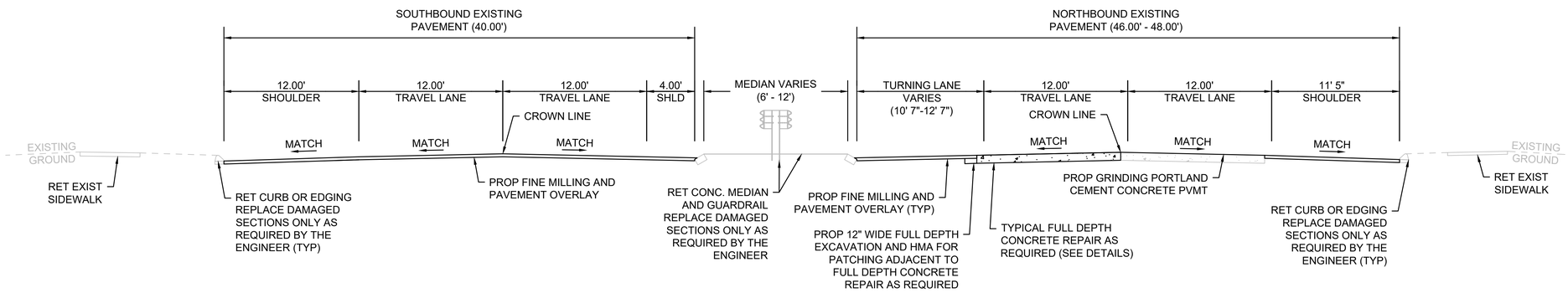
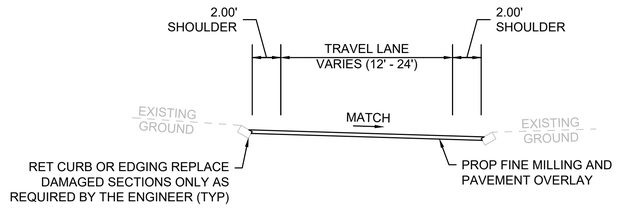
TYPICAL SECTIONS

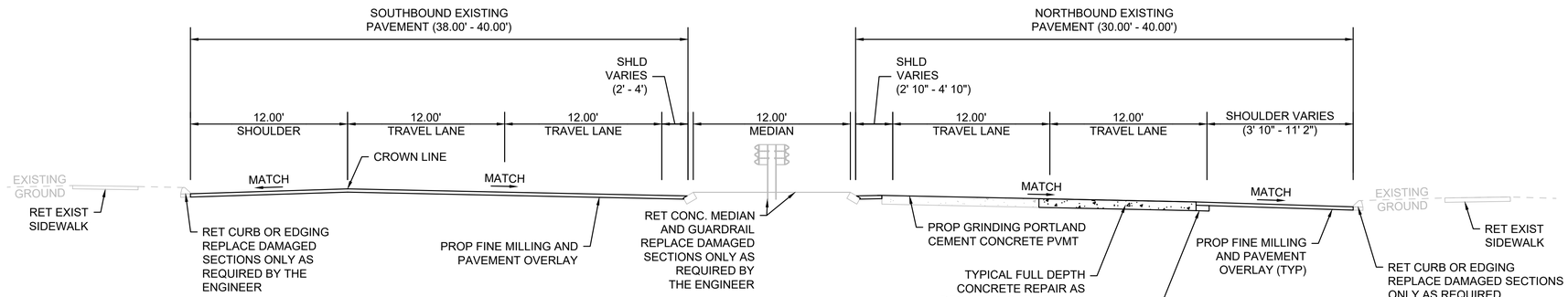


TYPICAL SECTION
ROUTE 33
NORMAL CROWN
VARIOUS LOCATIONS BETWEEN
STA 12+57 AND STA 207+36.99
NOT TO SCALE

NOTES:
1. SHIFT EXISTING LANES ON CONCRETE ROADWAY 7" TO OFFSET MARKINGS FROM JOINTS (SEE PAVEMENT MARKINGS DETAILS).



TYPICAL SECTION
ROUTE 33
JUGHANDLE AT FULLER ROAD INTERSECTION
WESTOVER ROAD/GRANBY ROAD INTERSECTION
JAMES STREET INTERSECTION
NOT TO SCALE



TYPICAL SECTION
ROUTE 33
SUPERELEVATION
VARIOUS LOCATIONS BETWEEN
STA. 12+57 TO STA 207+36.99
NOT TO SCALE

NOTES:
1. SHIFT EXISTING LANES ON CONCRETE ROADWAY 7" TO OFFSET MARKINGS FROM JOINTS (SEE PAVEMENT MARKINGS DETAILS).

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

STA 12+75 LT CATCH BASIN, ITEM 201.

STA 13+50 LT CATCH BASIN, ITEM 201.

CHICOPEE-SOUTH HADLEY
ROUTE 33

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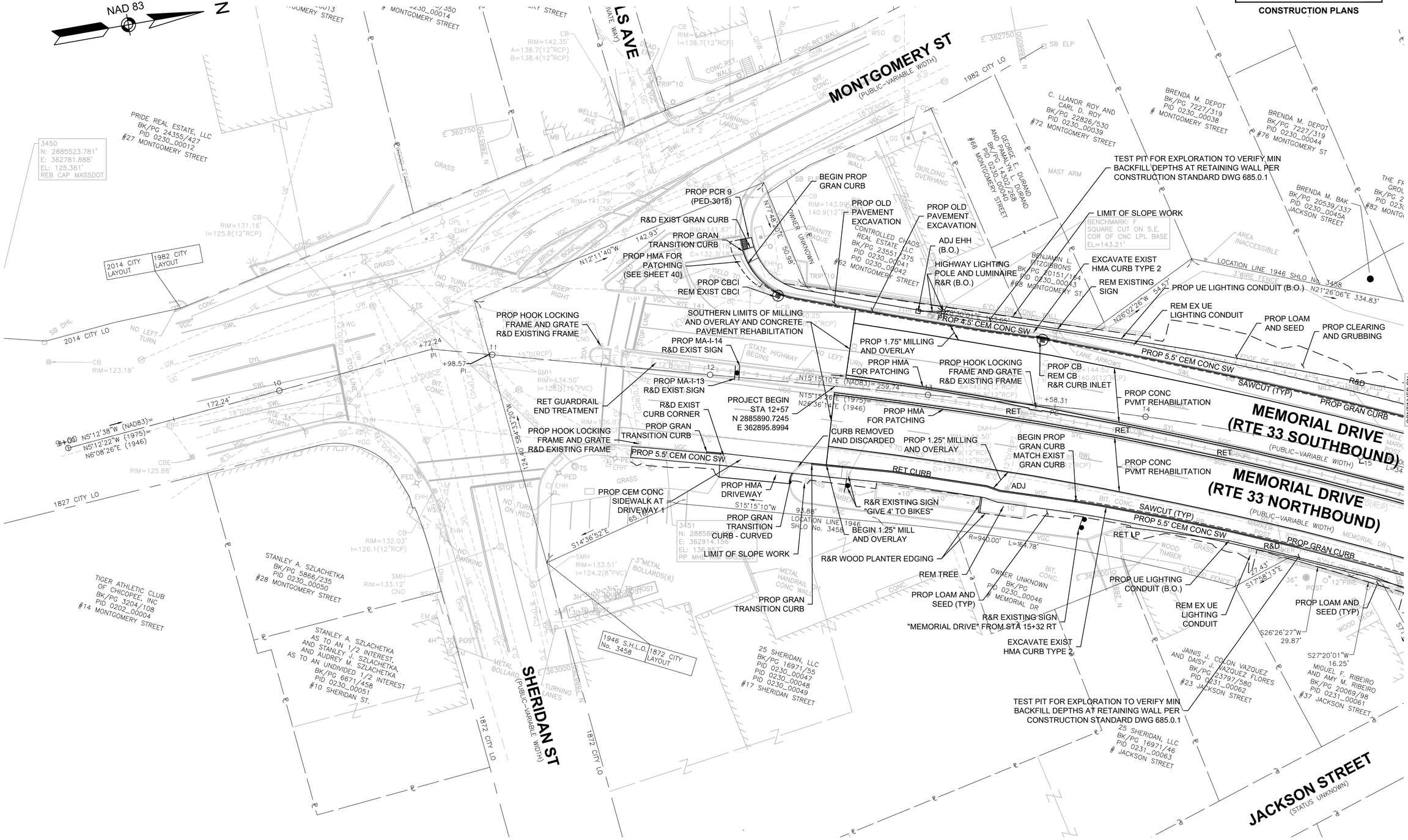
CONSTRUCTION PLANS

Plotted on 25-Jun-2025 1:19 PM

612109-HD-3-CONSTRUCTION PLAN.DWG



SCALE: 1" = 20'

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE

CHICOPEE-SOUTH HADLEY
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CONSTRUCTION PLANS

612109-HD-3-CONSTRUCTION PLAN.DWG Plotted on 25-Jun-2025 1:19 PM

CONTINUED ON SHEET NO. 6

CONTINUED ON SHEET NO. 8

NAD 83 N

FITZPATRICK LANE (STATUS UNKNOWN)

MEMORIAL DRIVE (RTE 33 SOUTHBOUND) (PUBLIC–VARIABLE WIDTH)

MEMORIAL DRIVE (RTE 33 NORTHBOUND) (PUBLIC–VARIABLE WIDTH)

JACKSON STREET (STATUS UNKNOWN)

GARY H. BOUSQUET, JR AND SAMARA R. SUPRENANT BK/PG 14456/174 PID 0230_00035 #88 MONTGOMERY STREET

FRANKSTONE GROUP, LLC BK/PG 21197/255 PID 0230_00036 MONTGOMERY ST

SAMARA R. SUPRENANT AND GARY H. BOUSQUET, JR BK/PG 18966/462 PID 0230_00045 # JACKSON STREET

ERIK GOVONI BK/PG 23524/482 PID 0230_00033 PID 0230_00033 # MONTGOMERY STREET

GEORGE A. CROTEAU AND DONNA A. FONTAINE BK/PG 24075/552 PID 0257_00002 #23 FITZPATRICK LN

CITY OF CHICOPEE BK/PG 19743/347 FITZPATRICK LN

MARC E. AUBE AND JENNY L. AUBE BK/PG 14109/322 PID 0257_00003 #28 FITZPATRICK LN

FLAG REALTY, LLC BK/PG 18690/115 PID 0257_00006 #126 MONTGOMERY STREET

DEBORAH GEANACOPO BK/PG 19063/4 PID 0258_000 #25 WOODROW AV

MIGUEL F. RIBEIRO AND AMY M. RIBEIRO BK/PG 20069/98 PID 0231_00061 #37 JACKSON STREET

NIS J. COLON VAZQUEZ DAISY J. VAZQUEZ FLORES BK/PG 23797/580 PID 0231_00062 #23 JACKSON STREET

MICHAEL A. CIECKO, JR. BK/PG 21489/195 PID 0231_00059 #36 JACKSON STREET

ROY FANTI BK/PG 5859/202 PID 0231_00053 # MEMORIAL DR

ROY ET ALS FANTI BK/PG 6440/533 (III) PID 0231_00052 # MEMORIAL DR

ROY FANTI BK/PG 5859/202 (II) PID 0231_00051 # PATRICK STREET

ROY FANTI BK/PG 5816/470 PID 0258_00016 # MEMORIAL DR

SEWER EASEMENT BK/PG 19743/347 CITY OF CHICOPEE

LOCATION LINE 1946 SHLO No. 3458

N38°09'58"E 473.83'

S37°20'35"W 130.87'

S30°30'56"W 200.56'

N34°48'17"E (NAD83)= 448.00'

N34°48'33"E (1975)=

N46°09'21"E (1946)

HIGHWAY LIGHTING POLE AND LUMINAIRE R&R (B.O.)

PROP EHH (B.O.)

PROP UE LIGHTING CONDUIT (B.O.)

REM EX UE LIGHTING CONDUIT

PROP CLEARING AND GRUBBING

PROP HOOK LOCKING FRAME AND GRATE R&D EXISTING FRAME RET CB

PROP GRAN CURB EXCAVATE EXIST HMA CURB TYPE 2

PROP LOAM AND SEED

PROP 5.5' CEM CONC SW

PROP 4.5' CEM CONC SW

PROP GRAN CURB

SAWCUT (TYP)

PROP CONCRETE PAVEMENT REHABILITATION

PROP HMA FOR PATCHING

R&D EXIST MILE MARKER SIGN

PROP 1.75" MILLING AND OVERLAY

LIMIT OF SLOPE WORK

END PROP HMA FOR PATCHING BEGIN 1.75" MILL AND OVERLAY

R&R EXISTING SIGN "MEMORIAL DRIVE" TO STA 13+75 RT

ADJ (B.O.)

R&D INDIVIDUAL POST

PROP 1.25" MILLING AND OVERLAY

PROP TRANSITION CURB

R&D

TEST PIT FOR EXPLORATION TO VERIFY MIN BACKFILL DEPTHS AT RETAINING WALL PER CONSTRUCTION STANDARD DWG 685.0.1

0 20 50 100

SCALE: 1" = 20'

HIGHWAY GUARD DETAILS

STA 22+52 TO 23+00 RT	PROP TANGENT END TREATMENT, TL-3, ITEM 627.83
STA 23+00 TO 24+85 RT	PROP GUARDRAIL, TL-3 (SINGLE FACED), ITEM 620.13
STA 24+85 TO 25+50 RT	PROP GUARDRAIL, DEEP POST (SINGLE FACED), ITEM 620.131
STA 25+50 TO 29+40 RT	PROP GUARDRAIL, TL-3 (SINGLE FACED), ITEM 620.13

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

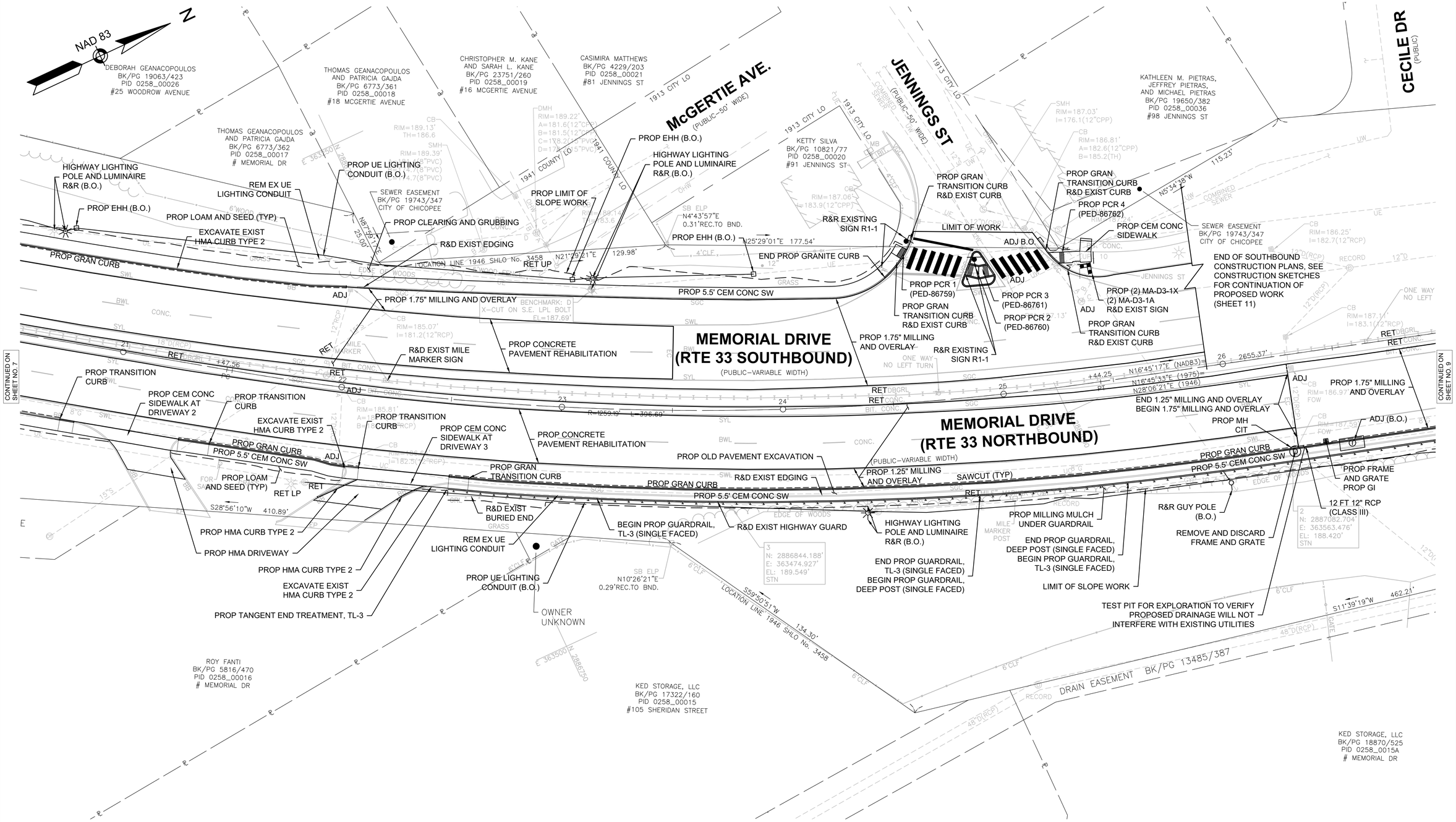
STA 26+32 RT	GUTTER INLET, ITEM 204.
STA 26+27 RT	DRAINAGE STRUCTURE CHANGE IN TYPE, ITEM 220.3
STA 26+27 TO 26+32 RT	12 INCH REINFORCED CONCRETE PIPE CLASS III, ITEM 241.12

CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	8	59
	PROJECT FILE NO. 612109		

CONSTRUCTION PLANS

612109-HD-3-CONSTRUCTION PLAN.DWG Plotted on 25-Jun-2025 1:19 PM



HIGHWAY GUARD DETAILS

STA 25+50 TO 29+40 RT PROP GUARDRAIL, TL-3 (SINGLE FACED), ITEM 620.13

STA 29+40 RT TRAILING ANCHORAGE, ITEM 627.1

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

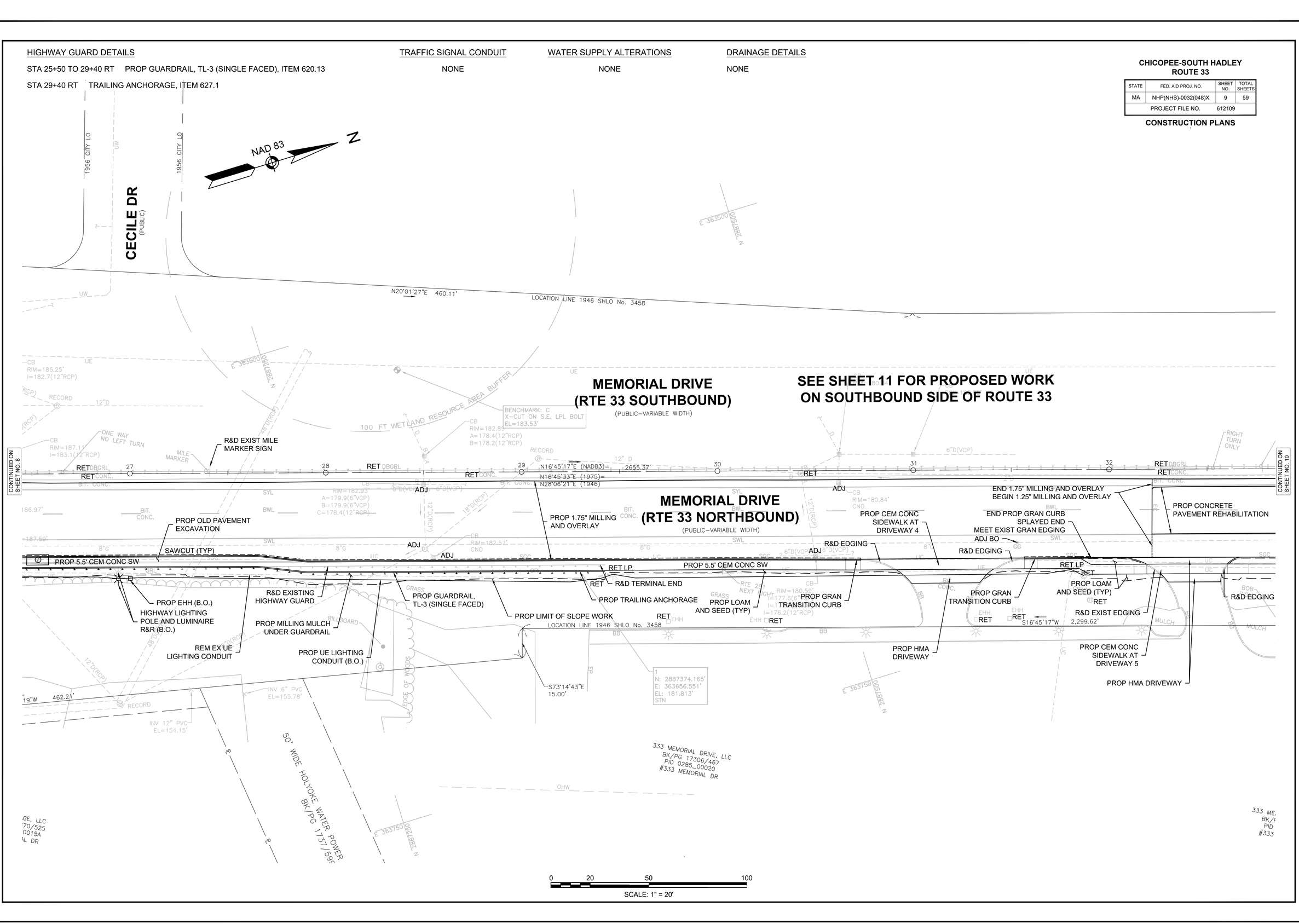
NONE

CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	9	59
	PROJECT FILE NO. 612109		

CONSTRUCTION PLANS

612109-HD-3-CONSTRUCTION PLAN.DWG Plotted on 25-Jun-2025 1:19 PM



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE

CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	10	59
	PROJECT FILE NO.	612109	

CONSTRUCTION PLANS

Plotted on 25-Jun-2025 1:19 PM

612109-HD-3-CONSTRUCTION PLAN.DWG

NAD 83
N
1946 S.H.L.O. No. 3458
1975 S.H.L.O. No. 6186
R=160.00'
L=347.92'
SB ELP
N4°38'29"E
0.09'REC.TO BND.
N16°45'16"E 454.67'
LOCATION LINE 1946 SHLO No. 3458
BENCHMARK: B
X-CUT ON N.E. LPL BOLT
EL=185.40'
SEE SHEET 11 FOR PROPOSED WORK
ON SOUTHBOUND SIDE OF ROUTE 33
MEMORIAL DRIVE
(RTE 33 SOUTHBOUND)
(PUBLIC-VARIABLE WIDTH)
PROP GUARDRAIL END TREATMENT, TL-3 (DOUBLE FACED)
AND MEDIAN RECONSTRUCTION
R&D BURIED END TREATMENT
SEE SHEET 38
END 1.25" MILLING AND OVERLAY
BEGIN 1.75" MILLING AND OVERLAY
R&R
R&D MILE MARKER SIGN
CONTINUED ON SHEET NO. 9
CONTINUED ON SHEET NO. 11
1793
N: 2888230.248'
E: 363797.933'
EL: 195.449'
MAG MASSDOT
N16°45'17"E (NAD83)=
N16°45'33"E (1975)=
N28°06'21"E (1946)
END 1.75" MILLING AND OVERLAY
BEGIN 1.25" MILLING AND OVERLAY
PROP 1.75" MILLING AND OVERLAY
PROP CEM CONC SIDEWALK AT DRIVEWAY 6
PROP CONCRETE PAVEMENT REHABILITATION
PROP CEM CONC SIDEWALK AT DRIVEWAY 7
PROP GRANITE EDGING TYPE SB
PROP HOT MIX ASPHALT BERM (TYPE A)
MEMORIAL DRIVE
(RTE 33 NORTHBOUND)
(PUBLIC-VARIABLE WIDTH)
END OF NORTHBOUND CONSTRUCTION PLANS, SEE CONSTRUCTION SKETCHES FOR CONTINUATION OF PROPOSED WORK (SHEET 11)
BENCHMARK: A
MAG SPIKE IN ULT (NO#)
EL=196.42'
PROP CEM CONC SIDEWALK AT DRIVEWAY 5
PROP 1.25" MILLING AND OVERLAY
PROP CEM CONC SIDEWALK AT BUS STOP SEE DETAIL
RET LP
PROP 5' CEM CONC SW
PROP LOAM AND SEED (TYP)
R&D EXIST EDGING
RET
ADJ
PROP LIMIT OF SLOPE WORK
PROP CEM CONC SIDEWALK AT DRIVEWAY 8
LOCATION LINE 1946 SHLO No. 3458
2,299.62'
PROP UE LIGHTING CONDUIT (B.O.)
PROP HMA DRIVEWAY
REM EX UE LIGHTING CONDUIT
1792
N: 2887817.670'
E: 363787.655'
EL: 185.771'
MAG MASSDOT
FULLER RD
(PUBLIC-60' WIDE)
333 MEMORIAL DRIVE, LLC
BK/PG 17306/469
PID 0286_00017
#345 MEMORIAL DR
333 MEMORIAL DRIVE, LLC
BK/PG 17306/467
PID 0285_00020
#333 MEMORIAL DR
JK REAL ESTATE, LLC
BK/PG 11336/501
PID 0312_00001
#385 MEMORIAL DR
0 20 50 100
SCALE: 1" = 20'

NOTES:
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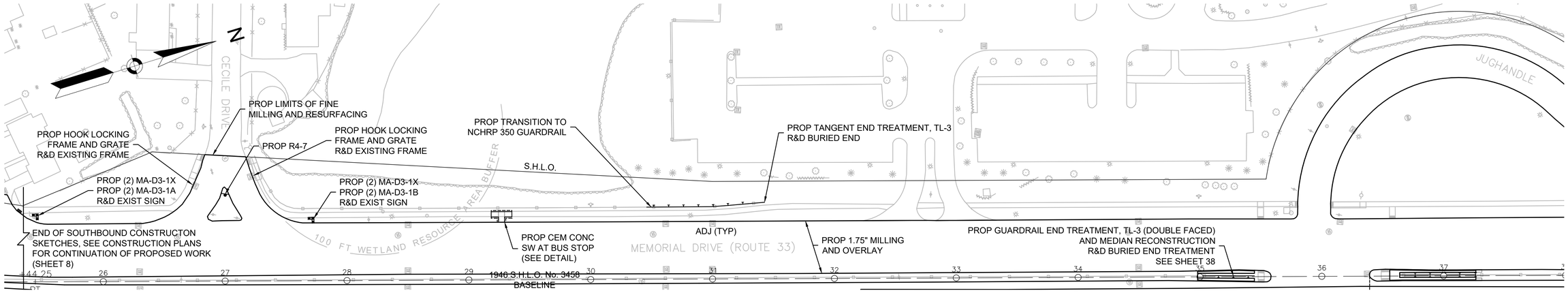
3. RETAIN ALL EXISTING SIDEWALK, DRIVEWAYS, GUARDRAIL, SIGNS, CURB, EDGING, CONCRETE MEDIAN AND OTHER EXISTING FEATURES UNLESS OTHERWISE NOTED.
4. ADJUST OR REBUILD ALL STRUCTURES WITHIN THE MILLING AND PAVING LIMITS.
5. LABELED TRANSITION LOCATIONS BETWEEN MILLING DEPTHS IN THE HMA SURFACE ARE APPROXIMATE AND MAY BE ADJUSTED BASED ON EXISTING FIELD CONDITIONS, AS REQUIRED BY THE ENGINEER.

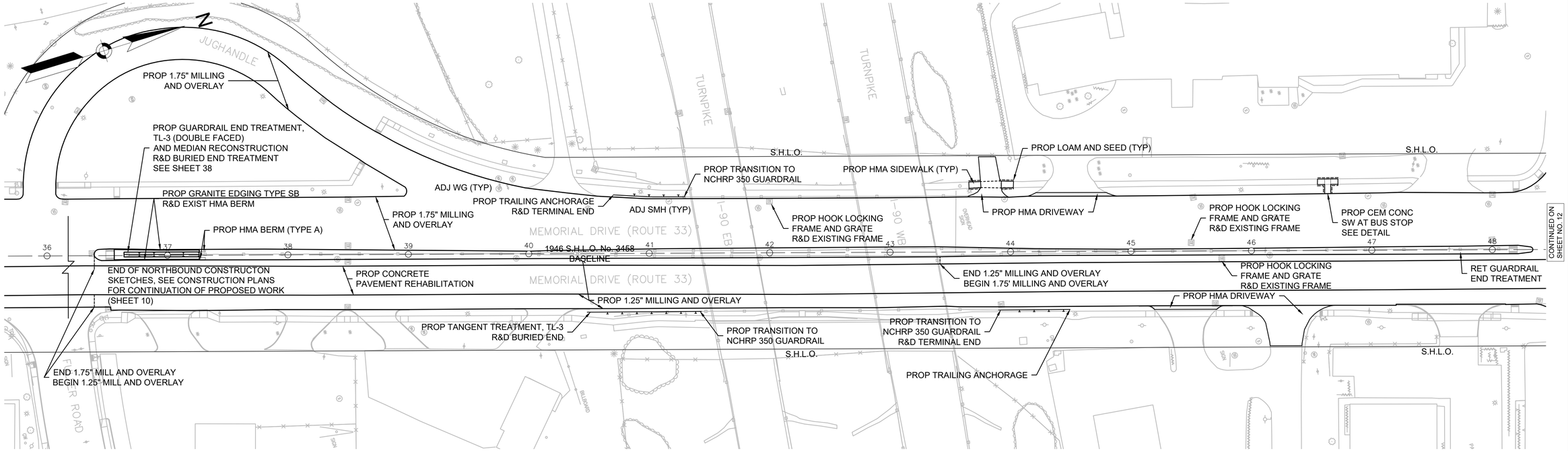
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	11	59
PROJECT FILE NO.	612109		

CONSTRUCTION SKETCHES



SEE SHEETS 9 AND 10 FOR PROPOSED WORK ON NORTHBOUND SIDE OF ROUTE 33



0 40 100 160
SCALE: 1" = 40'

612109-HD-4-CONSTRUCTION SKETCH.DWG Plotted on 25-Jun-2025 1:20 PM

NOTES:
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CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	12	59
PROJECT FILE NO.	612109		

CONSTRUCTION SKETCHES

NAD 83

PROP LIMIT OF FINE MILLING AND RESURFACING
PROP HOOK LOCKING FRAME AND GRATE R&D EXISTING FRAME
RET GUARDRAIL END TREATMENT
END 1.75" MILLING AND OVERLAY BEGIN 1.25" MILL AND OVERLAY
PROP 1.75" MILLING AND OVERLAY
PROP CONCRETE PAVEMENT REHABILITATION
PROP 1.25" MILLING AND OVERLAY
END 1.25" MILL AND OVERLAY BEGIN 1.75" MIL AND OVERLAY
PROP REFLECTORIZED FLEXIBLE DELINEATOR POST (AMBER) (TYP)
PROP GUARDRAIL END TREATMENT, TL-3 (DOUBLE FACED) AND MEDIAN RECONSTRUCTION R&S TEMP IMPACT ATTENUATOR SEE SHEET 38
1946 S.H.L.O. No. 3458 BASELINE
PROP GUARDRAIL END TREATMENT, TL-3 (DOUBLE FACED) AND MEDIAN RECONSTRUCTION R&D TEMP IMPACT ATTENUATOR SEE SHEET 38
END 1.75" MILL AND OVERLAY BEGIN 1.25" MIL AND OVERLAY
PROP LIMITS OF FINE MILLING AND RESURFACING
PROP LOAM AND SEED (TYP)
PROP HMA SIDEWALK (TYP)
PROP HMA DRIVEWAY
PROP HOOK LOCKING FRAME AND GRATE R&D EXISTING FRAME
PROP CEM CONC SW AT BUS STOP SEE DETAIL
R&D GUARDRAIL
END 1.25" MILL AND OVERLAY BEGIN 1.75" MIL AND OVERLAY
PROP LIMIT OF FINE MILLING AND RESURFACING
CONTINUED ON SHEET NO. 11
CONTINUED BELOW
L.O.
S.H.L.O.
CHICOPEE CROSSING (NORTHERN ENTRANCE)
CHICOPEE CROSSING (SOUTHERN ENTRANCE)
INTERSTATE 90 INTERCHANGE 49
505 MEMORIAL DRIVE ENTRANCE
MEMORIAL DRIVE (ROUTE 33)
PARKING
SIGN
UT

PROP HMA DRIVEWAY
PROP HMA SIDEWALK (TYP)
PROP LOAM AND SEED (TYP)
PROP LIMIT OF FINE MILLING AND RESURFACING
PROP R1-1
PROP HOOK LOCKING FRAME AND GRATE R&D EXISTING FRAME
PROP 1.75" MILLING AND OVERLAY
PROP REFLECTORIZED FLEXIBLE DELINEATOR POST (AMBER) (TYP)
PROP HOOK LOCKING FRAME AND GRATE R&D EXISTING FRAME
PROP HOOK LOCKING FRAME AND GRATE R&D EXISTING FRAME
RET GUARDRAIL END TREATMENT
END 1.25" MILL AND OVERLAY BEGIN 1.75" MILL AND OVERLAY
PROP CONCRETE PAVEMENT REHABILITATION
1946 S.H.L.O. No. 3458 BASELINE
+39.93 PT
RET GUARDRAIL END TREATMENT
END 1.75" MILL AND OVERLAY BEGIN 1.25" MILL AND OVERLAY
PROP (2) MA-D3-1X
PROP (2) MA-D3-1C
R&D EXIST SIGN
PROP 1.75" MILLING AND OVERLAY
END 1.25" MILL AND OVERLAY BEGIN 1.75" MILL AND OVERLAY
PROP LIMIT OF FINE MILLING AND RESURFACING
CONTINUED ABOVE
CONTINUED ON SHEET NO. 13
S.H.L.O.
BIG Y DRIVEWAY
STOP & SHOP DRIVEWAY
CHICOPEE MARKETPLACE (NORTHERN ENTRANCE)
EDBERT STREET
MEMORIAL DRIVE
PARKING

0 40 100 160
SCALE: 1" = 40'

612109-HD-4-CONSTRUCTION SKETCH.DWG Plotted on 25-Jun-2025 1:21 PM

NOTES:

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2. RETAIN ALL EXISTING MARKINGS UNLESS SHOWN IN THE PAVEMENT MARKINGS DETAILS.
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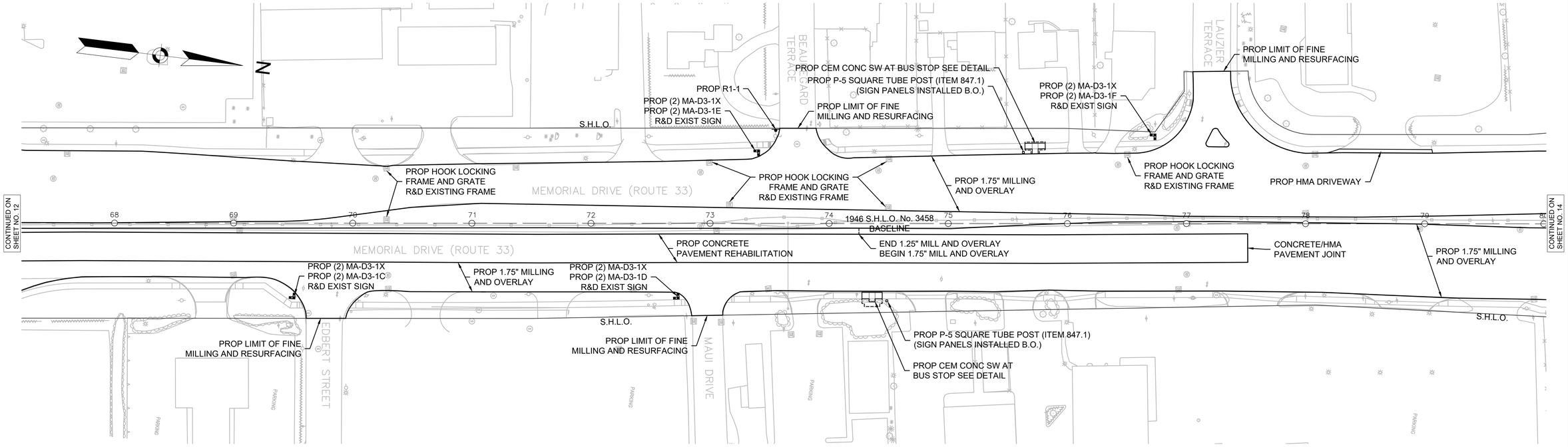
4. ADJUST OR REBUILD ALL STRUCTURES WITHIN THE MILLING AND PAVING LIMITS.
5. LABELED TRANSITION LOCATIONS BETWEEN MILLING DEPTHS IN THE HMA SURFACE ARE APPROXIMATE AND MAY BE ADJUSTED BASED ON EXISTING FIELD CONDITIONS, AS REQUIRED BY THE ENGINEER.

CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	13	59
PROJECT FILE NO.	612109		

CONSTRUCTION SKETCHES



612109-HD-4-CONSTRUCTION SKETCH.DWG Plotted on 25-Jun-2025 1:21 PM

CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	14	59
	PROJECT FILE NO.	612109	

CONSTRUCTION SKETCHES

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N
PROP LIMITS OF FINE MILLING AND RESURFACING
148+04.76
GRANBY ROAD
149
150
151
PROP TRAILING ANCHORAGE
R&D TERMINAL END
PROP GUARDRAIL, TL-3
R&D EXIST GUARDRAIL
PROP TANGENT END TREATMENT, TL-3
R&D TERMINAL END
PROP LOAM AND
SEED (TYP)
PROP CEM CONC SW AT BUS STOP SEE DETAIL
PROP HMA SIDEWALK (TYP)
PROP P-5 SQUARE TUBE POST (ITEM 847.1)
(SIGN PANELS INSTALLED B.O.)
PROP HMA DRIVEWAY
PROP HMA DRIVEWAY
PROP GUARDRAIL END TREATMENT,
TL-3 (DOUBLE FACED)
AND MEDIAN RECONSTRUCTION
R&D BURIED END TREATMENT
SEE SHEET 38
PROP 1.75" MILLING
AND OVERLAY
MEMORIAL DRIVE (ROUTE 33)
CONTINUED ON
SHEET NO. 13
80
81
82
83
84
85
86
87
88
89
90
91
+48.20
PI
152
+68.43
PT
1946 S.H.L.O. No. 3456
BASELINE
PROP 1.75" MILLING
AND OVERLAY
CONTINUED ON
SHEET NO. 15
PROP 1.75" MILLING
AND OVERLAY
PROP 1.75" MILLING
AND OVERLAY
MEMORIAL DRIVE (ROUTE 33)
END 1.75" MILLING AND OVERLAY
BEGIN 1.25" MILLING AND OVERLAY
PROP CONCRETE
PAVEMENT REHABILITATION
PROP (2) MA-D3-1X
PROP (2) MA-D3-1G
R&D EXIST SIGN
153
DONAHUE ROAD
PIQUETTE AVENUE
LABRIE AVENUE
PROP LIMITS OF FINE
MILLING AND RESURFACING
PROP R1-1
CONCRETE/HMA
PAVEMENT JOINT
PROP CEM CONC SW AT
BUS STOP SEE DETAIL
154
154+65.30
PROP LIMITS OF FINE
MILLING AND RESURFACING
WESTOVER ROAD
0
40
100
160
SCALE: 1" = 40'

Plotted on 25-Jun-2025 1:21 PM

612109-HD-4-CONSTRUCTION SKETCH.DWG

NOTES:
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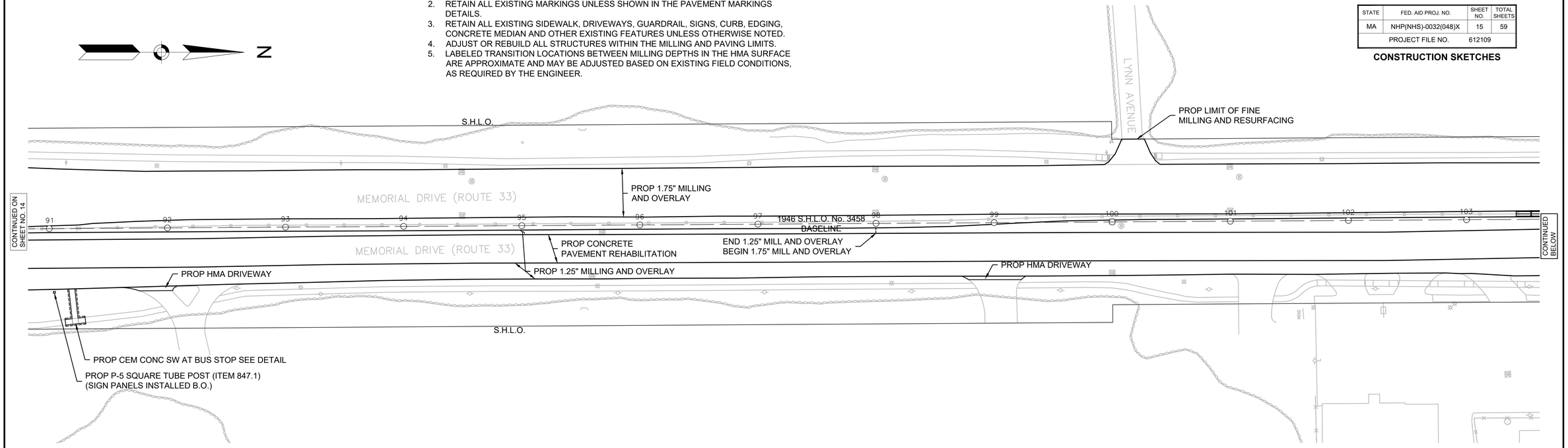
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	15	59
PROJECT FILE NO.	612109		

CONSTRUCTION SKETCHES



NOTES:

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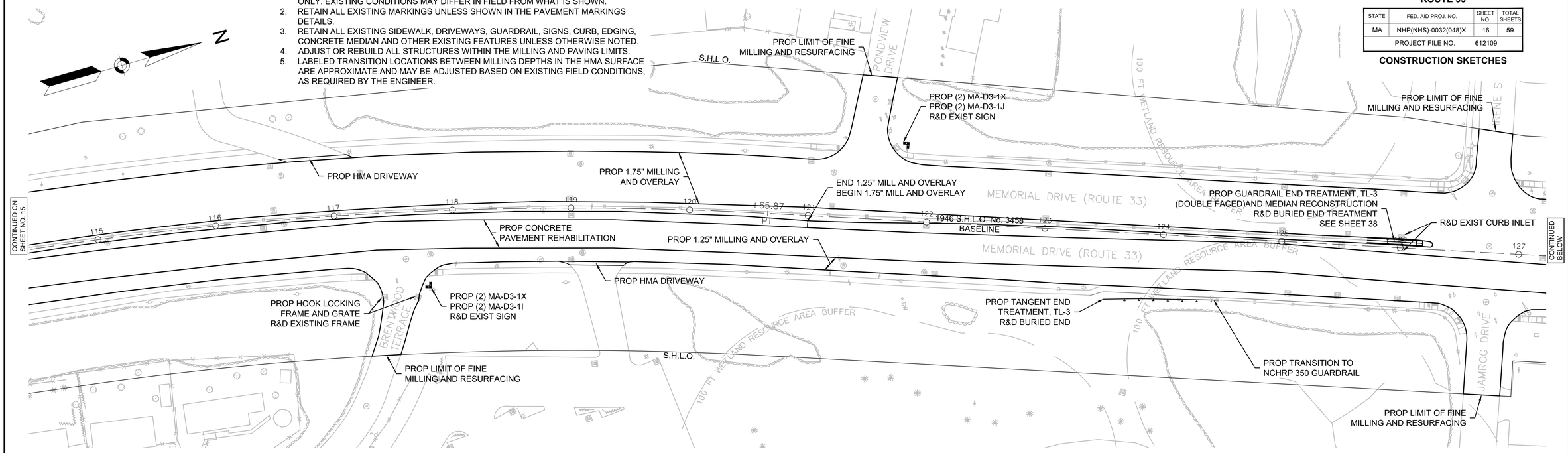
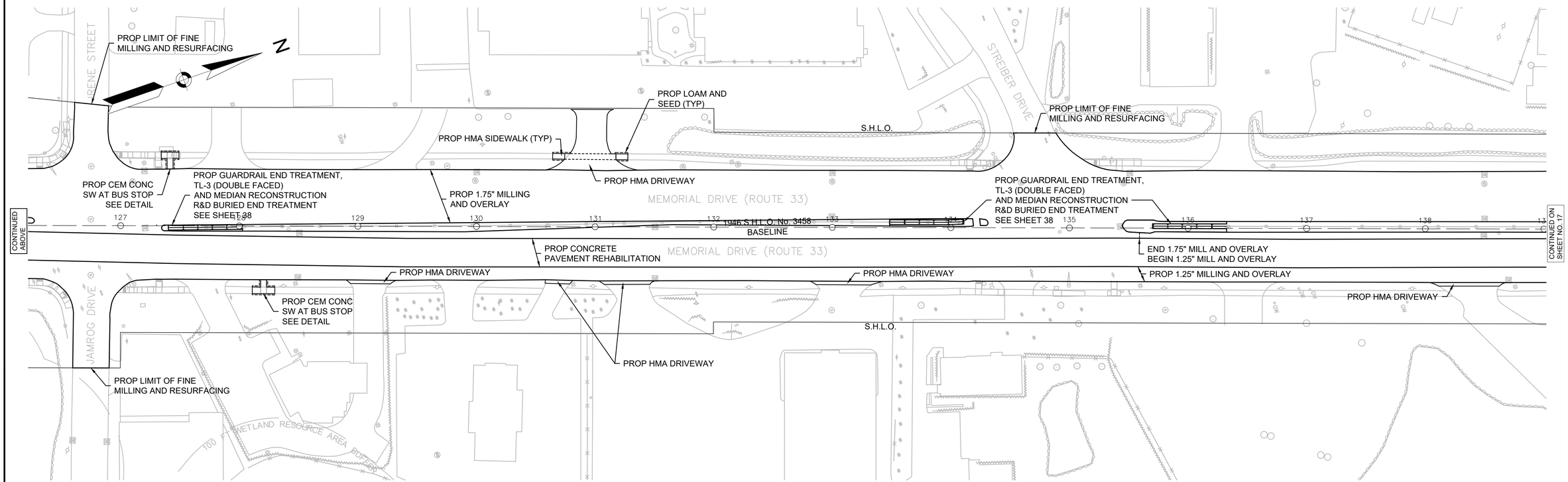
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	16	59
PROJECT FILE NO.	612109		

CONSTRUCTION SKETCHES





612109-HD-4-CONSTRUCTION SKETCH.DWG Plotted on 25-Jun-2025 1:21 PM

NOTES:

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3. RETAIN ALL EXISTING SIDEWALK, DRIVEWAYS, GUARDRAIL, SIGNS, CURB, EDGING, CONCRETE MEDIAN AND OTHER EXISTING FEATURES UNLESS OTHERWISE NOTED.
4. ADJUST OR REBUILD ALL STRUCTURES WITHIN THE MILLING AND PAVING LIMITS.
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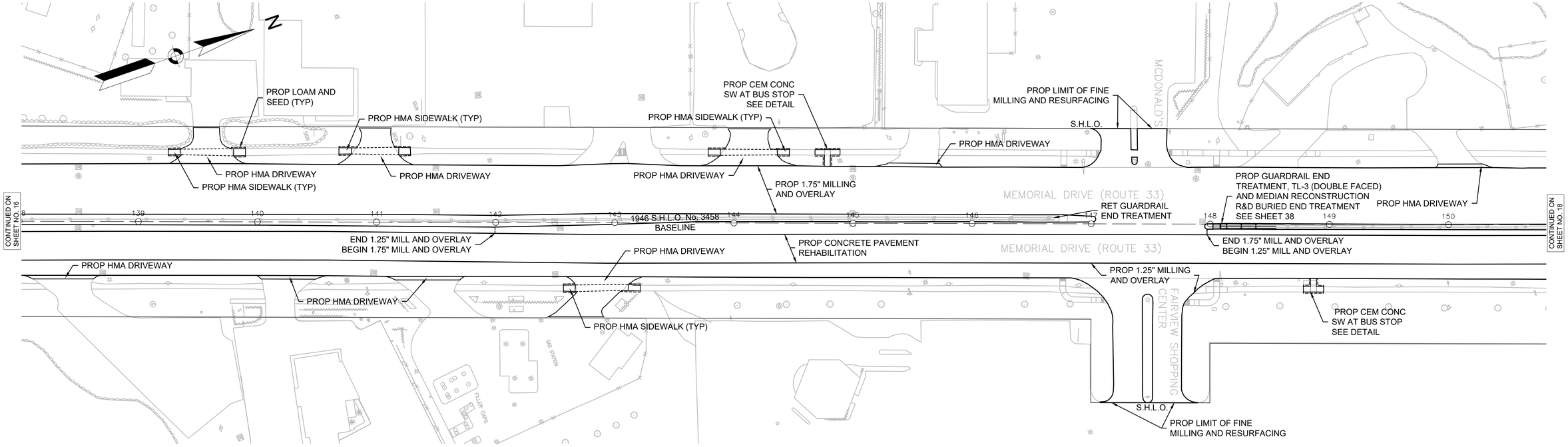
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	17	59
PROJECT FILE NO.	612109		

CONSTRUCTION SKETCHES



0 40 100 160

SCALE: 1" = 40'

NOTES:
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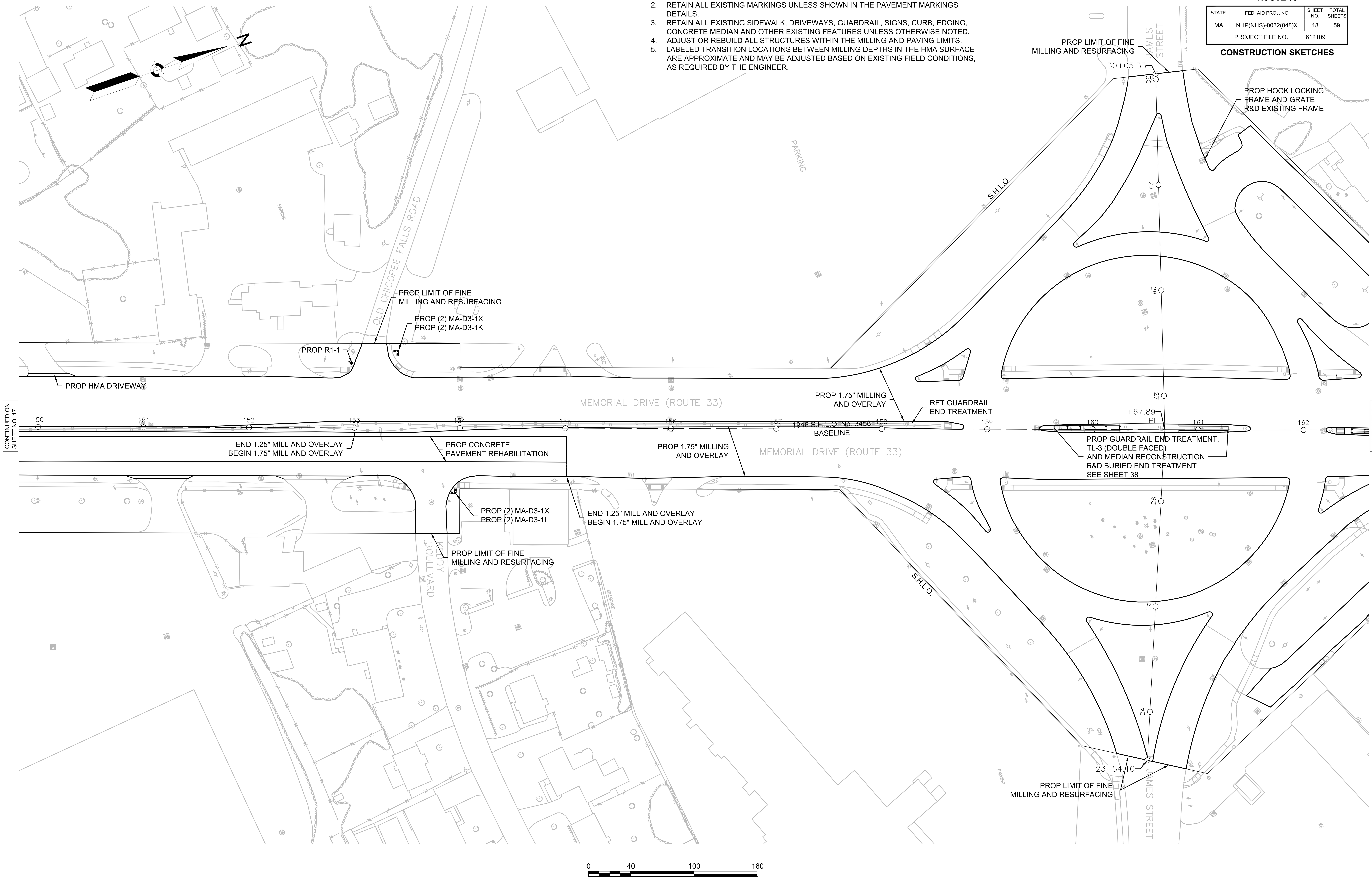
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	18	59
	PROJECT FILE NO.	612109	

CONSTRUCTION SKETCHES


N
OLD CHICOPEE FALLS ROAD
PARKING
PROP LIMIT OF FINE MILLING AND RESURFACING
PROP (2) MA-D3-1X
PROP (2) MA-D3-1K
PROP R1-1
PROP HMA DRIVEWAY
S.H.L.O.
MEMORIAL DRIVE (ROUTE 33)
CONTINUED ON SHEET NO. 17
150
151
152
153
154
155
156
157
158
159
160
161
162
1946 S.H.L.O. No. 3458 BASELINE
END 1.25" MILL AND OVERLAY
BEGIN 1.75" MILL AND OVERLAY
PROP CONCRETE PAVEMENT REHABILITATION
PROP 1.75" MILLING AND OVERLAY
RET GUARDRAIL END TREATMENT
PROP 1.75" MILLING AND OVERLAY
PROP (2) MA-D3-1X
PROP (2) MA-D3-1L
END 1.25" MILL AND OVERLAY
BEGIN 1.75" MILL AND OVERLAY
KEDDY BOULEVARD
PROP LIMIT OF FINE MILLING AND RESURFACING
S.H.L.O.
PROP LIMIT OF FINE MILLING AND RESURFACING
30+05.33
JAMES STREET
PROP HOOK LOCKING FRAME AND GRATE R&D EXISTING FRAME
30
29
28
27
26
25
24
+67.89
PI
PROP GUARDRAIL END TREATMENT, TL-3 (DOUBLE FACED) AND MEDIAN RECONSTRUCTION R&D BURIED END TREATMENT SEE SHEET 38
CONTINUED ON SHEET NO. 19
23+54.10
PROP LIMIT OF FINE MILLING AND RESURFACING
JAMES STREET
PARKING
0
40
100
160
SCALE: 1" = 40'

Plotted on 25-Jun-2025 1:22 PM

612109-HD-4-CONSTRUCTION SKETCH.DWG

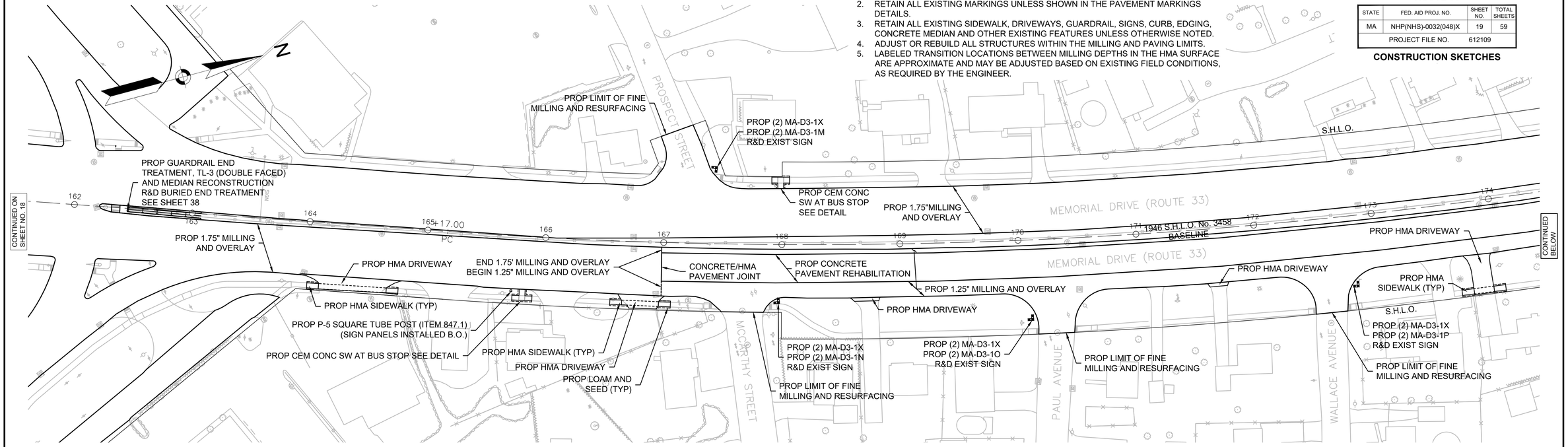
NOTES:
1. CONSTRUCTION SKETCH BASE PLAN IS FROM AERIAL SURVEY AND FOR REFERENCE ONLY. EXISTING CONDITIONS MAY DIFFER IN FIELD FROM WHAT IS SHOWN.
2. RETAIN ALL EXISTING MARKINGS UNLESS SHOWN IN THE PAVEMENT MARKINGS DETAILS.
3. RETAIN ALL EXISTING SIDEWALK, DRIVEWAYS, GUARDRAIL, SIGNS, CURB, EDGING, CONCRETE MEDIAN AND OTHER EXISTING FEATURES UNLESS OTHERWISE NOTED.
4. ADJUST OR REBUILD ALL STRUCTURES WITHIN THE MILLING AND PAVING LIMITS.
5. LABELED TRANSITION LOCATIONS BETWEEN MILLING DEPTHS IN THE HMA SURFACE ARE APPROXIMATE AND MAY BE ADJUSTED BASED ON EXISTING FIELD CONDITIONS, AS REQUIRED BY THE ENGINEER.

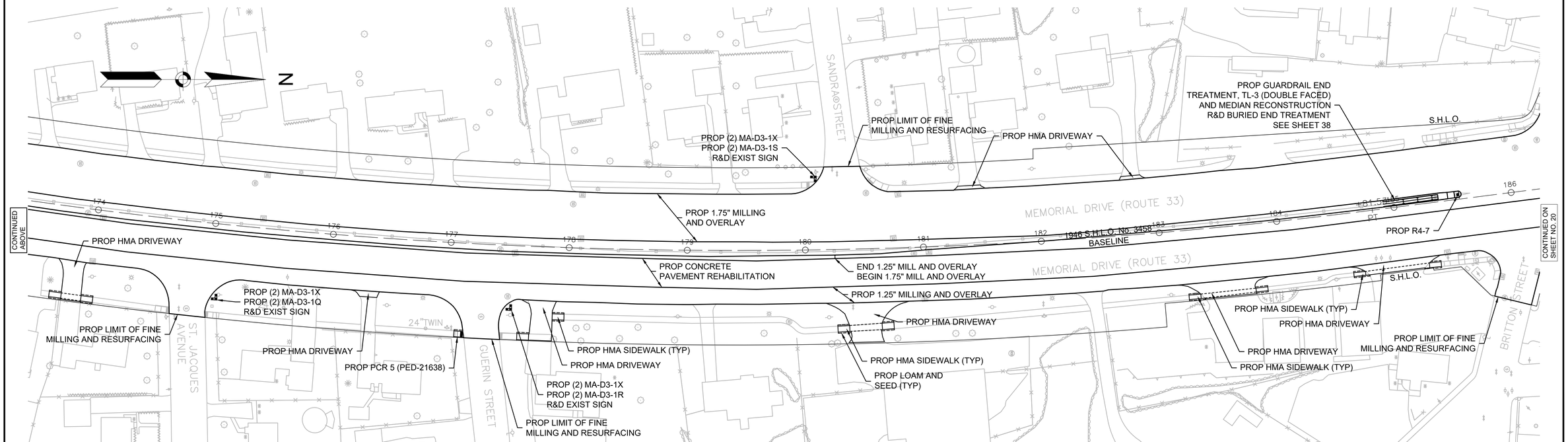
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	19	59
PROJECT FILE NO.	612109		

CONSTRUCTION SKETCHES

612109-HD-4-CONSTRUCTION SKETCH.DWG Plotted on 25-Jun-2025 1:22 PM





0 40 100 160

SCALE: 1" = 40'

NOTES:
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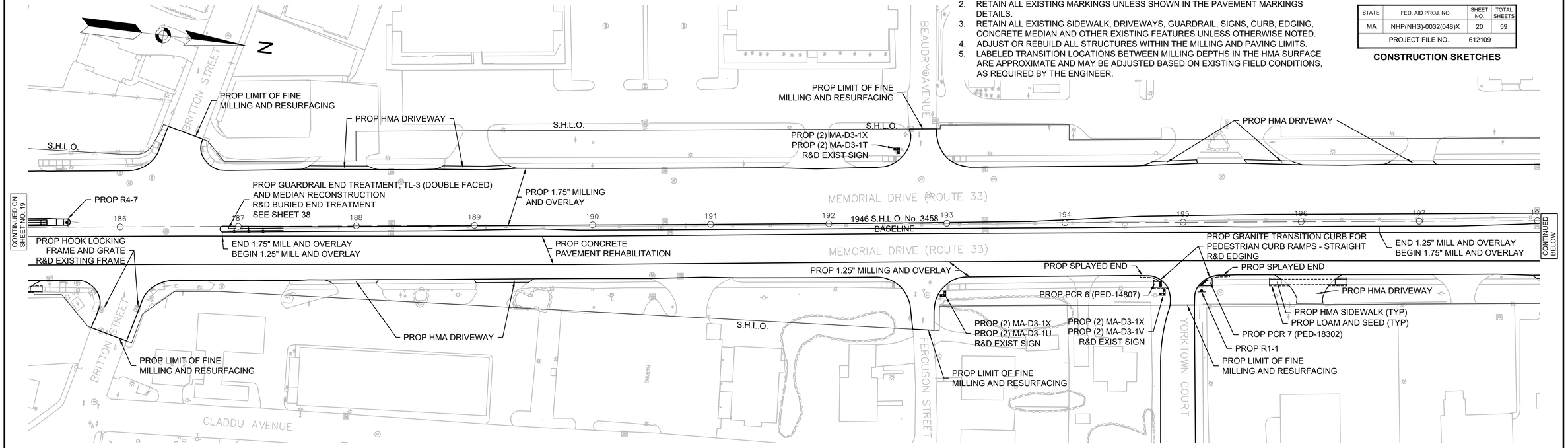
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	20	59
PROJECT FILE NO.	612109		

CONSTRUCTION SKETCHES



0 40 100 160

SCALE: 1" = 40'

612109-HD-4-CONSTRUCTION SKETCH.DWG Plotted on 25-Jun-2025 1:23 PM

NOTES:

1. CONSTRUCTION SKETCH BASE PLAN IS FROM AERIAL SURVEY AND FOR REFERENCE ONLY. EXISTING CONDITIONS MAY DIFFER IN FIELD FROM WHAT IS SHOWN.
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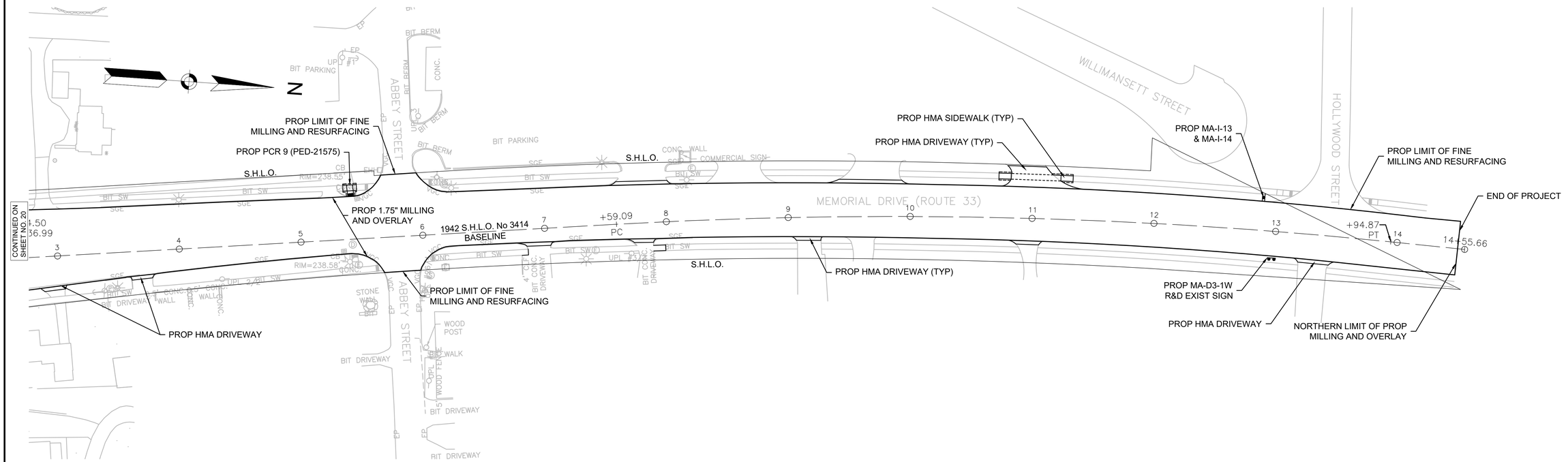
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	21	59
PROJECT FILE NO.	612109		

CONSTRUCTION SKETCHES



CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	22	59
PROJECT FILE NO.	612109		

TRAFFIC SIGN SUMMARY

SIGN SUMMARY

IDENTIFI-CATION NUMBER	SIZE OF SIGN (INCHES)		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQ'D	COLOR			(POST SIZE) AND NUMBER REQUIRED	UNIT AREA (S.F.)	TOTAL AREA (S.F.)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE MKR.		BACK-GROUND	LEGEND	BORDER			
MA-D3-1A	51	12	Jennings St	6D/4D	2.75 3.25	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	4.25	8.50
MA-D3-1B	42	12	Cecile Dr	6D/4D	3 3	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	3.50	7.00
MA-D3-1C	42	12	Edbert St	6D/4D	3 3	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	3.50	7.00
MA-D3-1D	36	12	Maui Dr	6D/4D	3 3	NA	2	GREEN	WHITE	WHITE	(P5) 0 REQ'D (MOUNT WITH MA-D3-1X)	3.00	6.00
MA-D3-1E	63	12	Beauregard Ter	6D/4D	2.75 3.25	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	5.25	10.50
MA-D3-1F	48	12	Lauzier Ter	6D/4D	3 3	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	4.00	8.00
MA-D3-1G	45	12	Labrie Ave	6D/4D	3 3	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	3.75	7.50
MA-D3-1H	54	12	Falmouth Rd	6D/4D	3 3	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	4.50	9.00
MA-D3-1I	60	12	Brentwood Ter	6D/4D	3 3	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	5.00	10.00
MA-D3-1J	54	12	Pondview Dr	6D/4D	3 3	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	4.50	9.00
MA-D3-1K	60	21	Old Chicopee Falls Rd	6D/4D	3 3	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	8.75	17.50
MA-D3-1L	48	12	Keddy Blvd	6D/4D	2.75 3.25	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	4.00	8.00
MA-D3-1M	48	12	Prospect St	6D/4D	2.75 3.25	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	4.00	8.00
MA-D3-1N	57	12	McCarthy Ave	6D/4D	2.75 3.25	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	4.75	9.50
MA-D3-1O	39	12	Paul Ave	6D/4D	3 3	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	3.25	6.50
MA-D3-1P	51	12	Wallace Ave	6D/4D	3 3	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	4.25	8.50
MA-D3-1Q	63	12	St Jacques Ave	6D/4D	2.75 3.25	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	5.25	10.50
MA-D3-1R	42	12	Guerin St	6D/4D	3 3	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	3.50	7.00
MA-D3-1S	45	12	Sandra St	6D/4D	3 3	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	3.75	7.50
MA-D3-1T	54	12	Beaudry Ave	6D/4D	2.75 3.25	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	4.50	9.00
MA-D3-1U	51	12	Ferguson St	6D/4D	2.75 3.25	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	4.25	8.50
MA-D3-1V	54	12	Yorktown Ct	6D/4D	3 3	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	4.50	9.00
MA-D3-1W	63	12	Willimansett St	6D/4D	3 3	NA	2	GREEN	WHITE	WHITE	(P5) 2 REQ'D	5.25	10.50
MA-D3-1X	51	12	Memorial Dr	6D/4D	3 3	NA	44	GREEN	WHITE	WHITE	(P5) 22 REQ'D	4.25	187.00
R1-1	30	30	STOP	SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS			4	RED	WHITE	WHITE	(P5) 1 REQ'D	6.25	25.00
R4-7	24	30					2	WHITE	BLACK	BLACK	(P5) 1 REQ'D	5.00	10.00
MA-I-13	24	30	STATE HIGHWAY BEGINS	SEE MassDOT STANDARD SIGNS BOOK			2	GREEN	WHITE	WHITE	(P5) 1 REQ'D	5.00	10.00
MA-I-14	24	30	STATE HIGHWAY ENDS				2	GREEN	WHITE	WHITE	(P5) 1 REQ'D	5.00	10.00

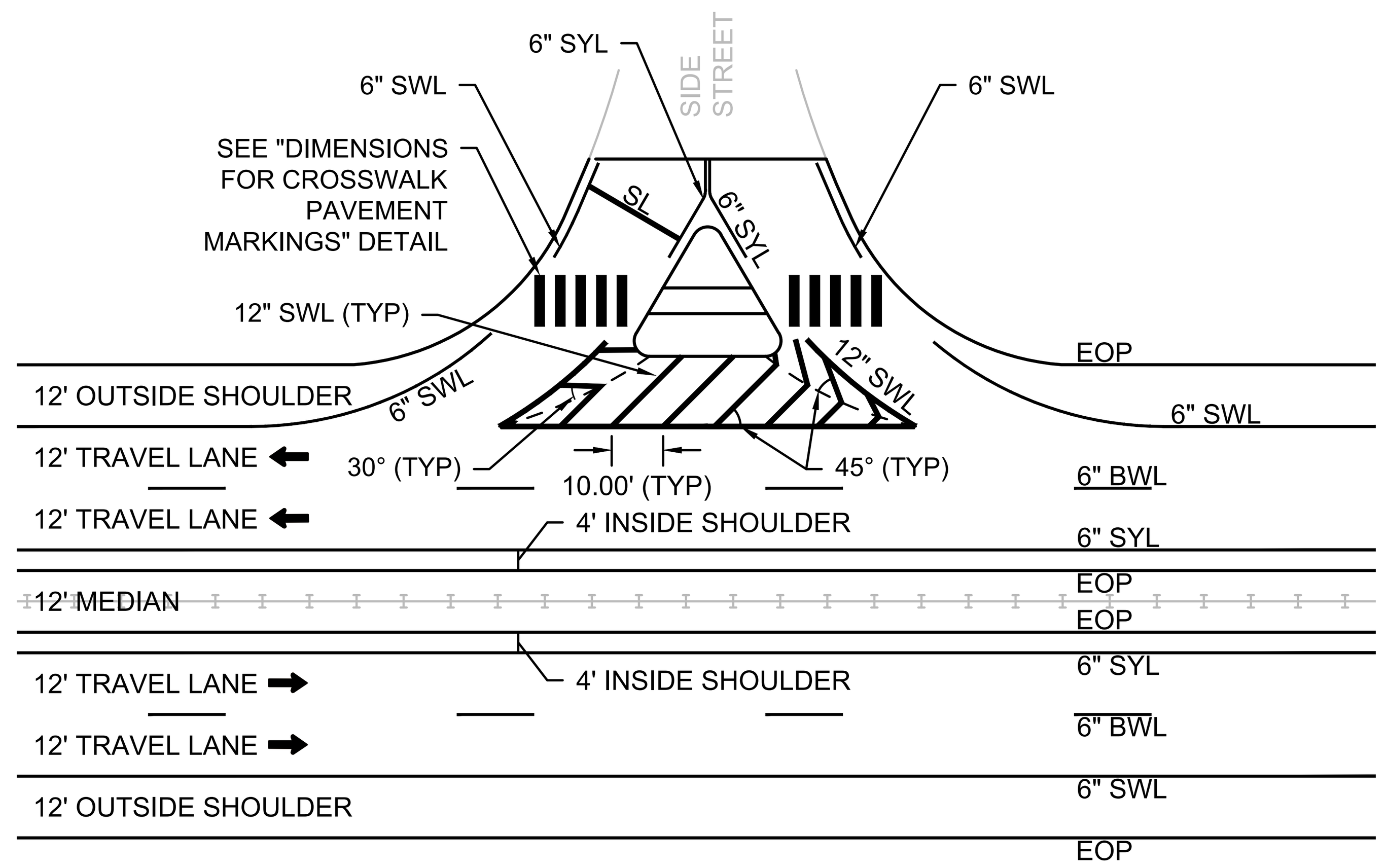
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	23	59
	PROJECT FILE NO.	612109	

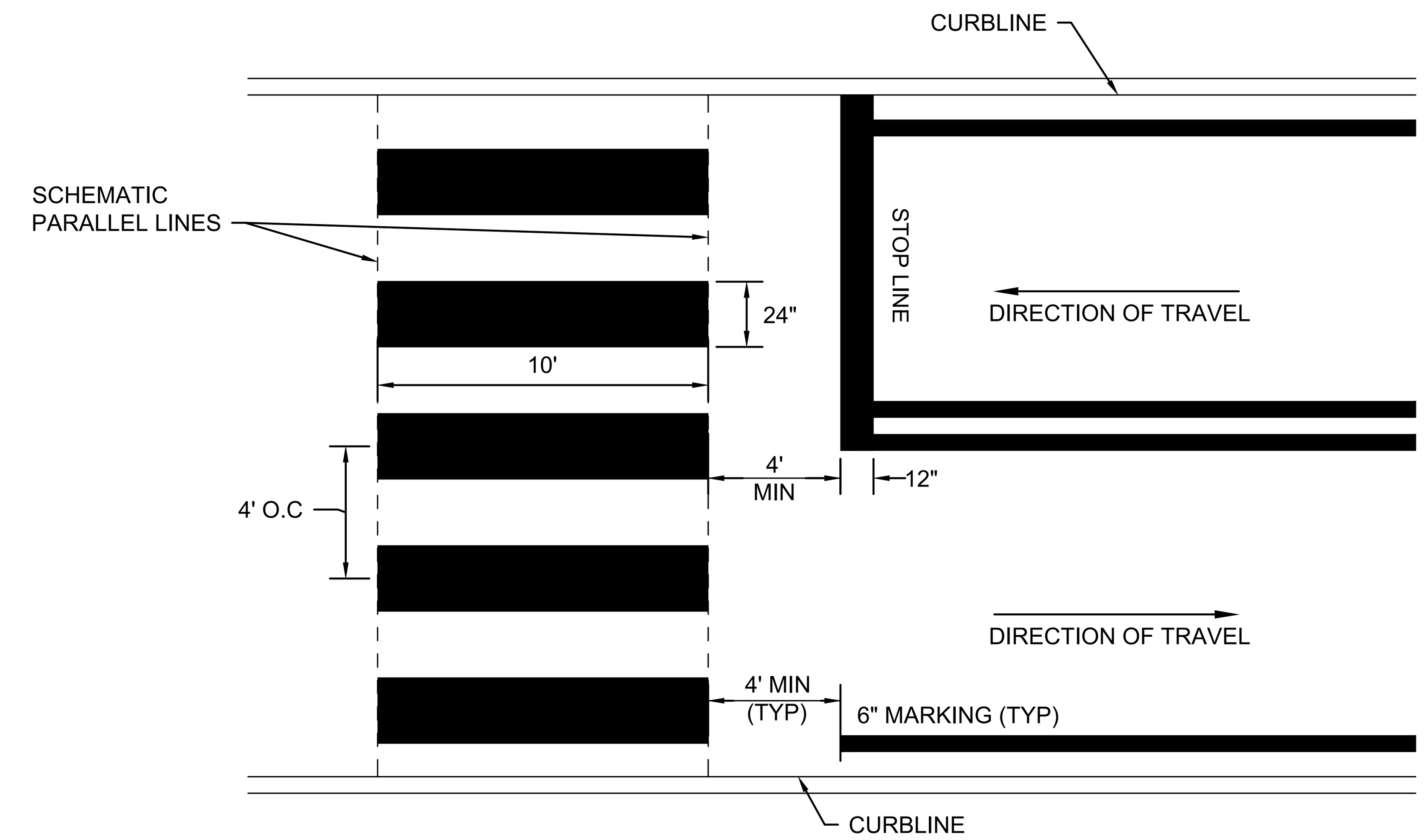
PAVEMENT MARKINGS DETAILS

Plotted on 25-Jun-2025 1:24 PM

612109-HD-6-DETAILS.DWG

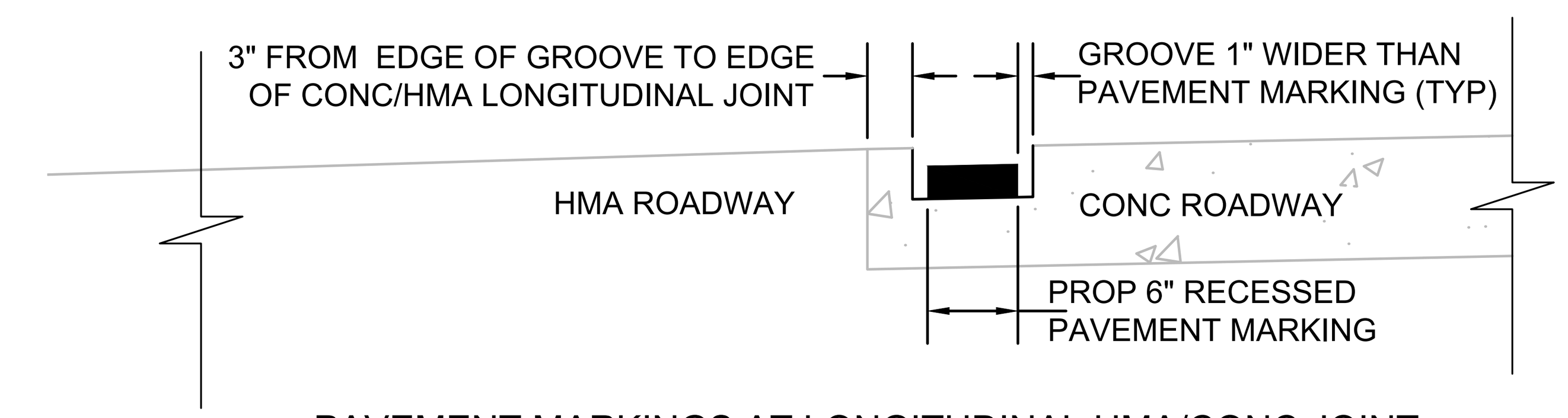


PAVEMENT MARKINGS AT SIDE STREETS WITH ISLAND AND CROSSWALK
NOT TO SCALE



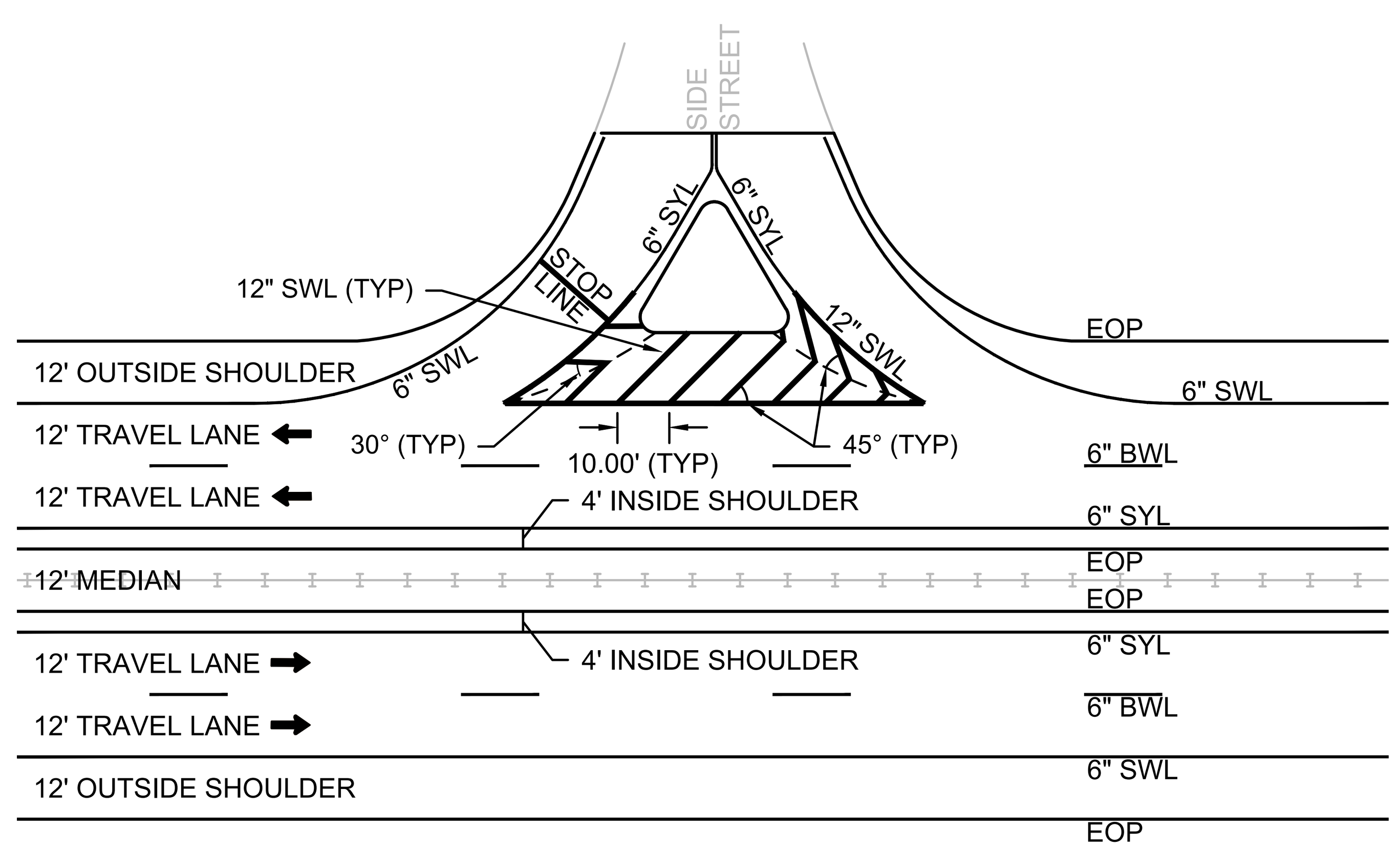
NOTES:
1. ALL 24" LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (FOUR - 6" LINES) WILL BE ACCEPTED.
2. LAYOUT OF CROSSWALKS SHALL BE ORIENTATED IN THE DIRECTION OF TRAVEL AND LOCATED OUTSIDE OF THE WHEEL PATH OF VEHICLES.

DIMENSIONS FOR CROSSWALK PAVEMENT MARKINGS
NOT TO SCALE

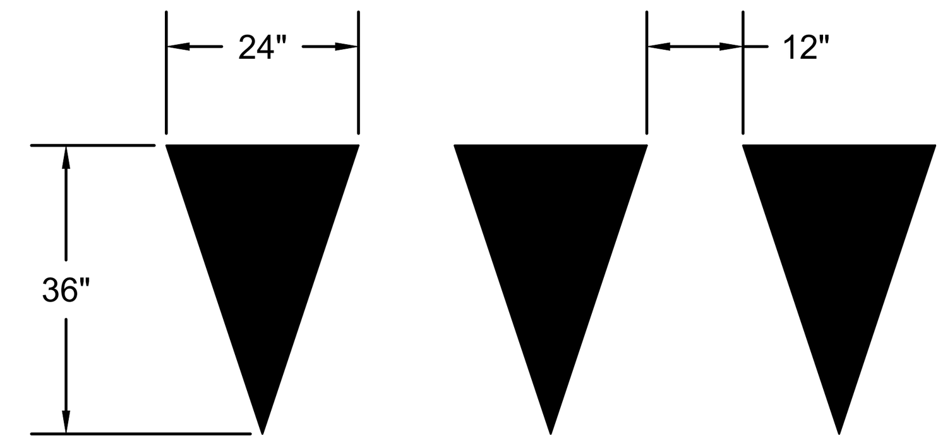


PAVEMENT MARKINGS AT LONGITUDINAL HMA/CONC JOINT
NOT TO SCALE

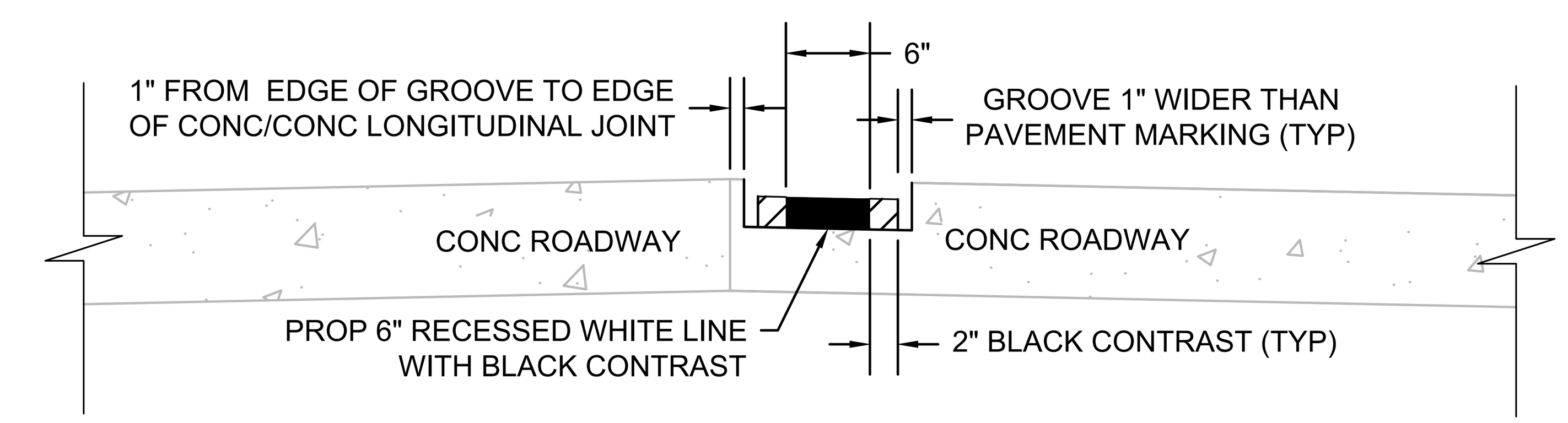
NOTE: GROOVED PAVEMENT AND MARKING DEPTH EXAGGERATED FOR VISUAL CLARITY



PAVEMENT MARKINGS AT SIDE STREETS WITH ISLAND
NOT TO SCALE

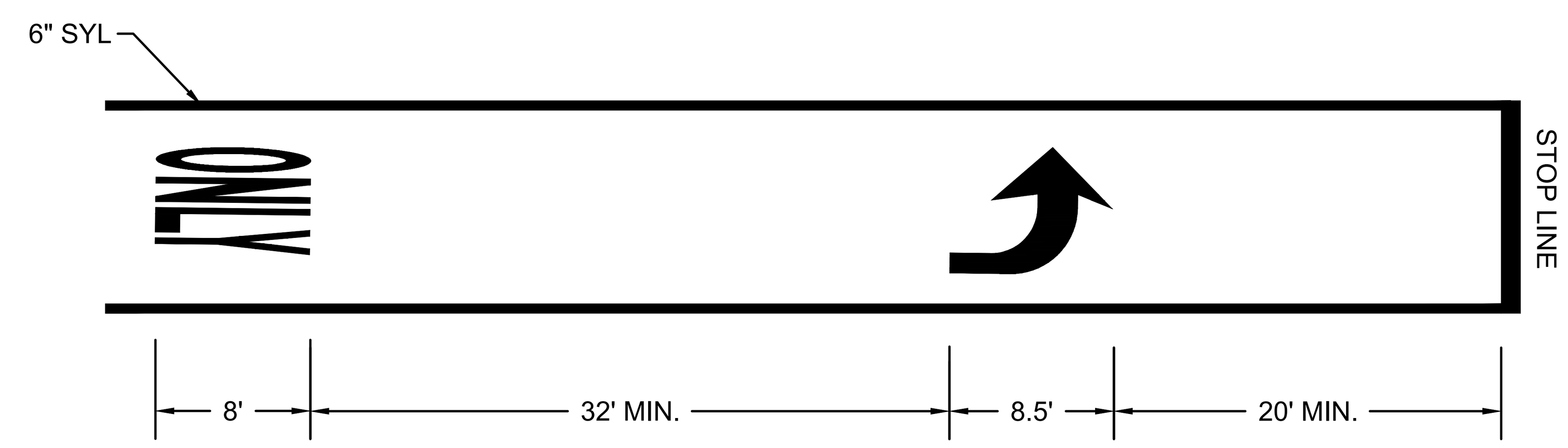


SOLID WHITE YIELD LINE MARKING
NOT TO SCALE



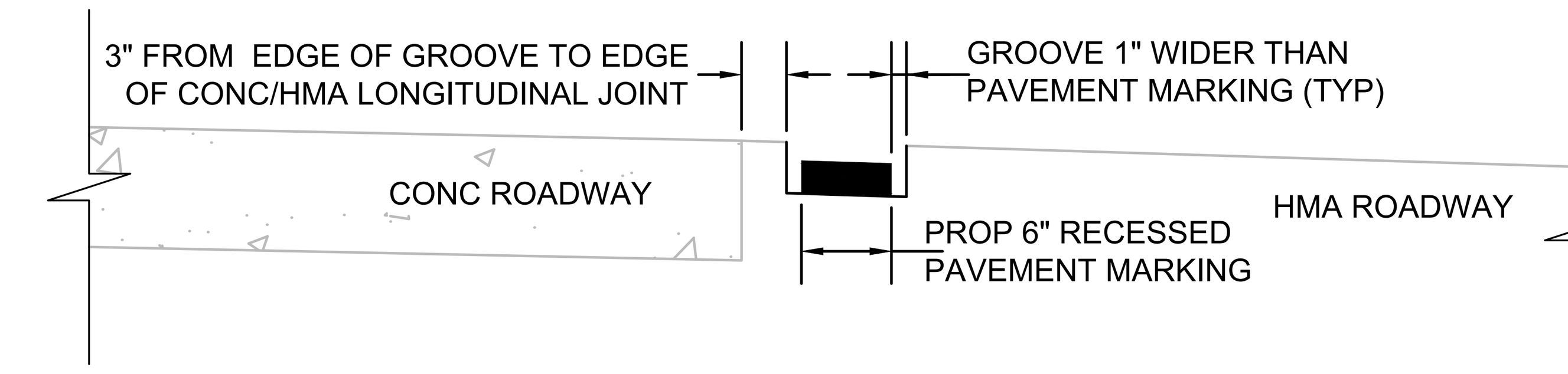
PAVEMENT MARKINGS AT LONGITUDINAL CONC/CONC JOINT
NOT TO SCALE

NOTE: GROOVED PAVEMENT AND MARKING DEPTH EXAGGERATED FOR VISUAL CLARITY



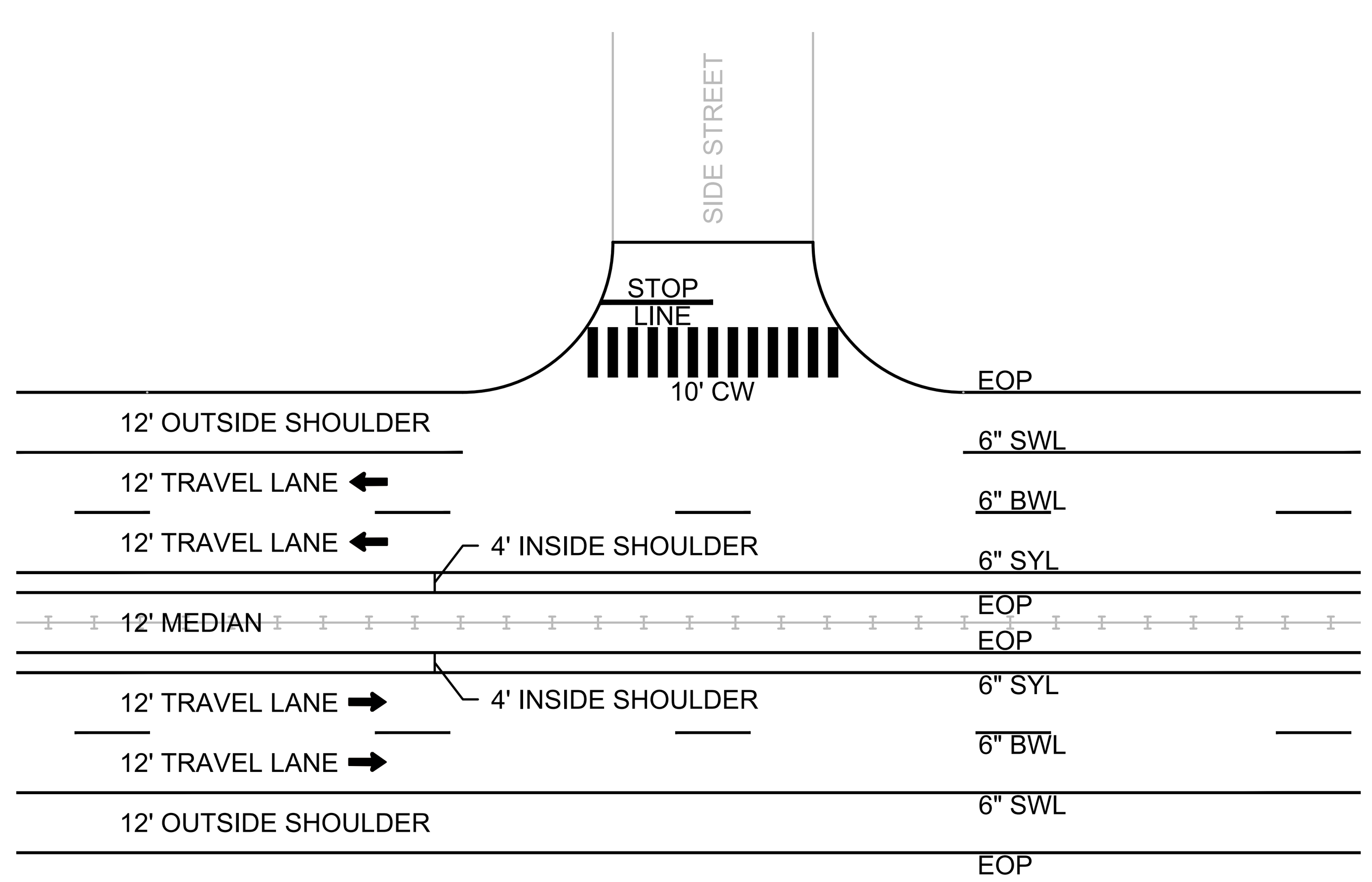
NOTE: ARROW SHALL BE POINTED RIGHT FOR RIGHT TURN ONLY.

TURN ONLY MARKING AND LEGEND DETAIL
NOT TO SCALE

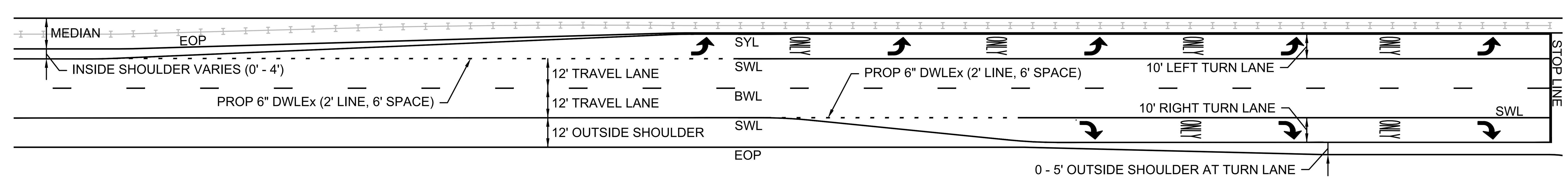


PAVEMENT MARKINGS AT LONGITUDINAL CONC/HMA JOINT
NOT TO SCALE

NOTE: GROOVED PAVEMENT AND MARKING DEPTH EXAGGERATED FOR VISUAL CLARITY



PAVEMENT MARKINGS AT SIDE STREETS
NOT TO SCALE

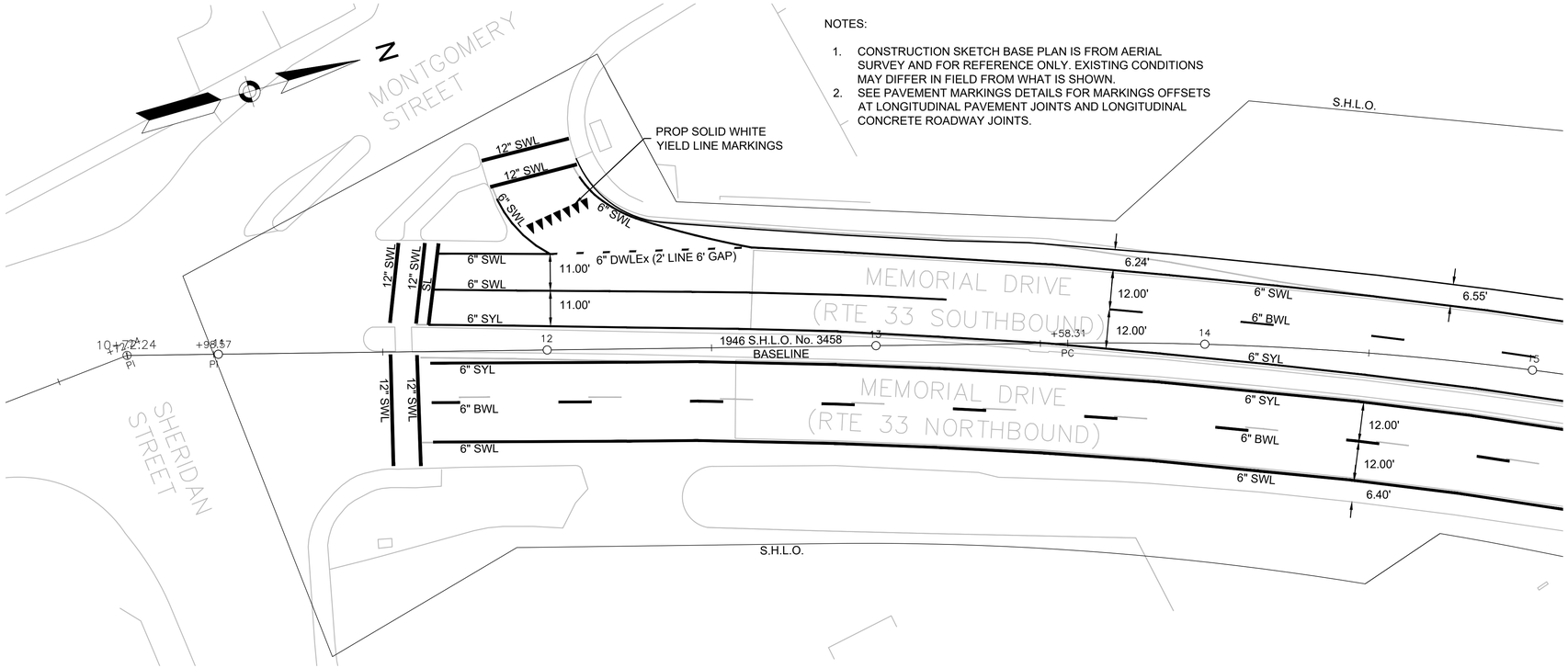


PAVEMENT MARKINGS AT TURN LANES
NOT TO SCALE

CHICOPEE-SOUTH HADLEY
ROUTE 33

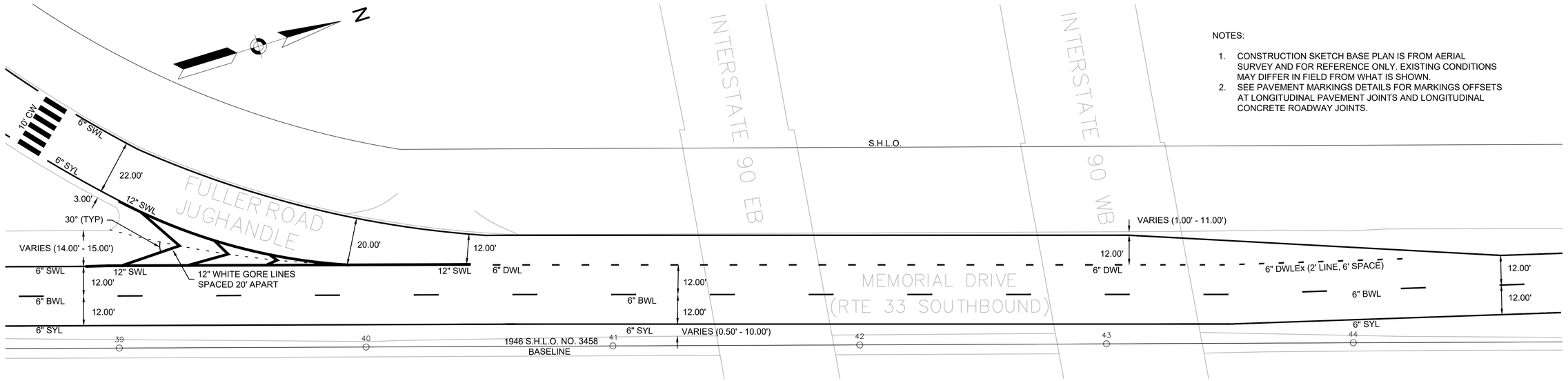
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	24	59
PROJECT FILE NO.	612109		

PAVEMENT MARKINGS SKETCH



NOTES:

1. CONSTRUCTION SKETCH BASE PLAN IS FROM AERIAL SURVEY AND FOR REFERENCE ONLY. EXISTING CONDITIONS MAY DIFFER IN FIELD FROM WHAT IS SHOWN.
2. SEE PAVEMENT MARKINGS DETAILS FOR MARKINGS OFFSETS AT LONGITUDINAL PAVEMENT JOINTS AND LONGITUDINAL CONCRETE ROADWAY JOINTS.



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0 20 50 100

SCALE: 1" = 20'

CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	25	59
PROJECT FILE NO.	612109		

PAVEMENT MARKINGS SKETCH

NOTES:

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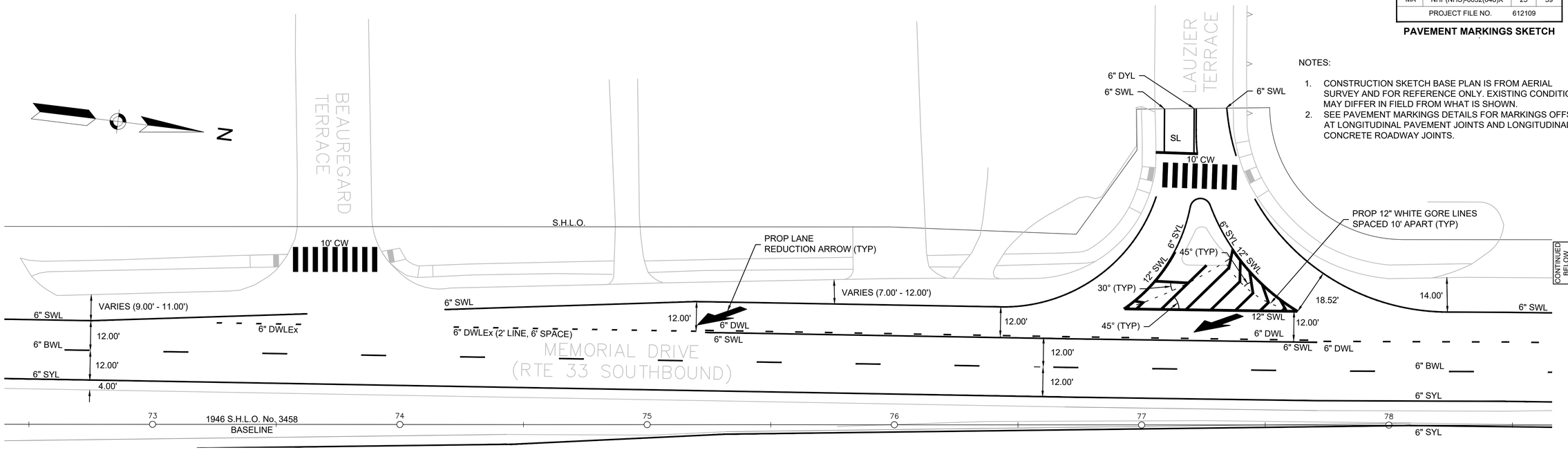

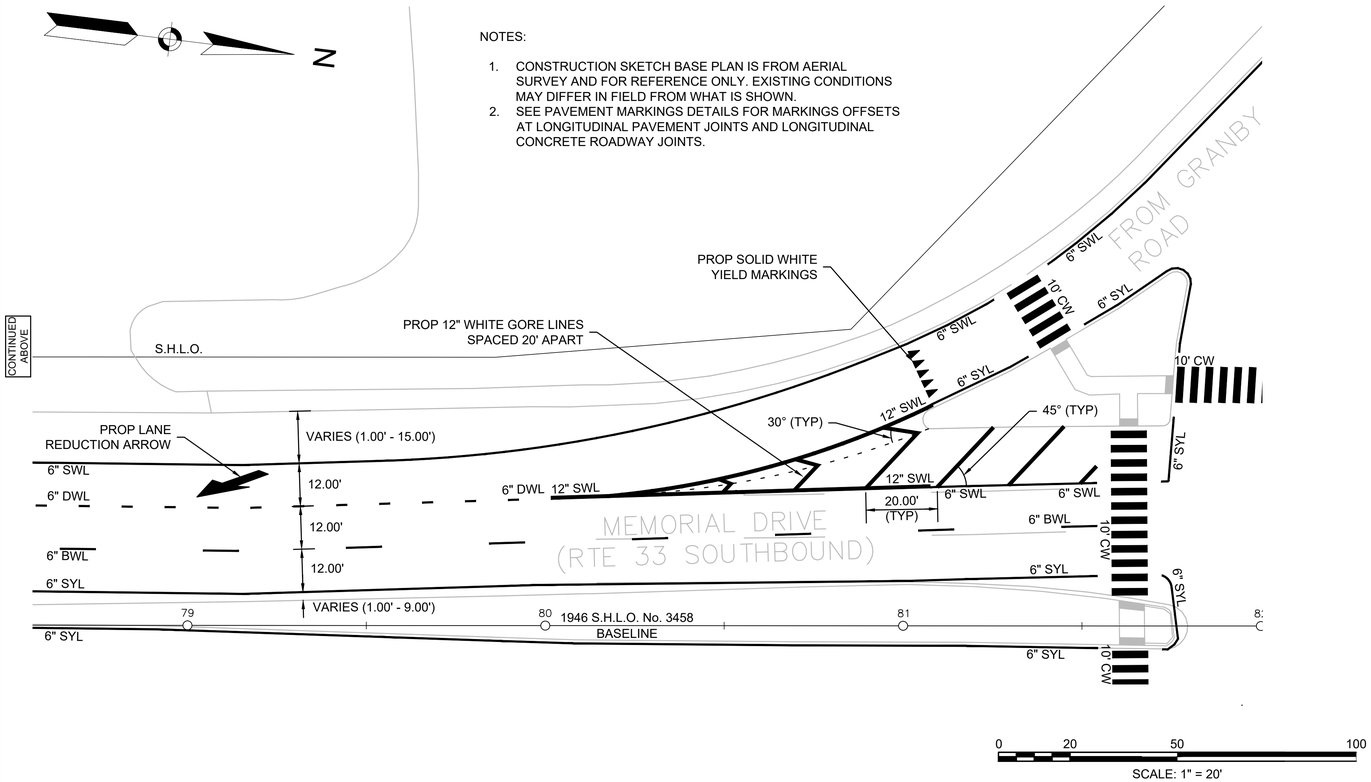

0 20 50 100

SCALE: 1" = 20'

CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	26	59
PROJECT FILE NO.	612109		

PAVEMENT MARKINGS SKETCH

NOTES:

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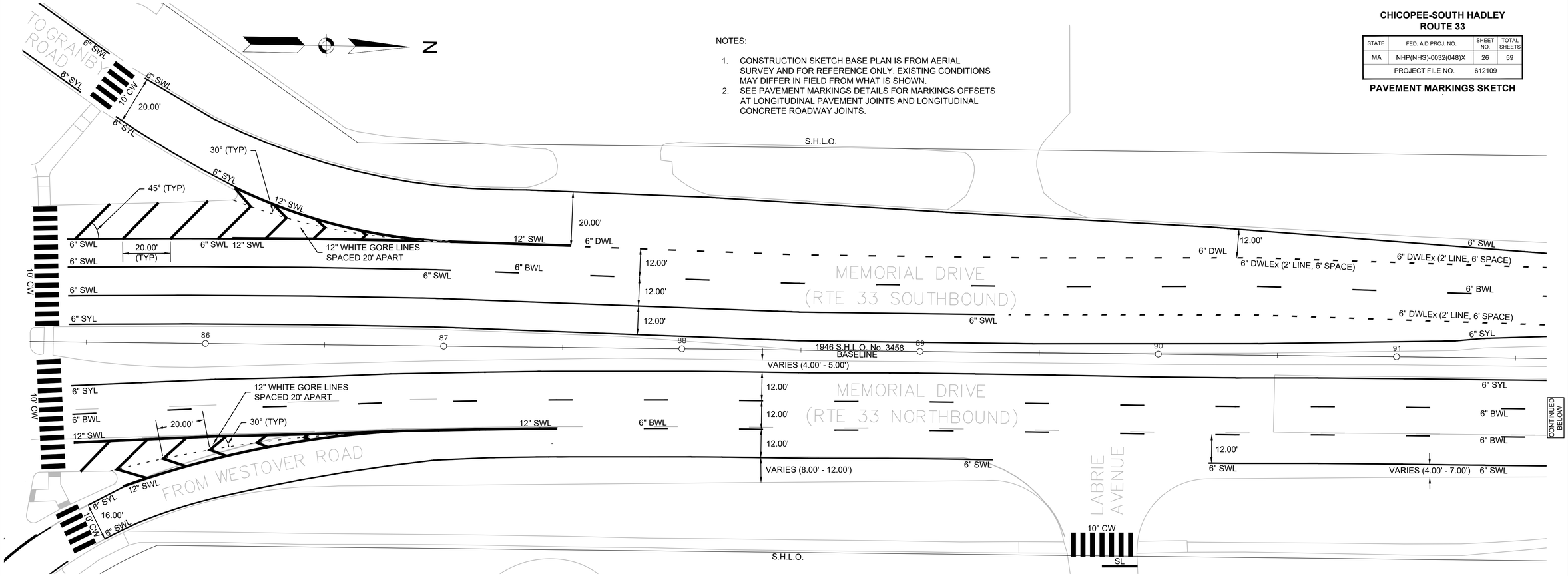

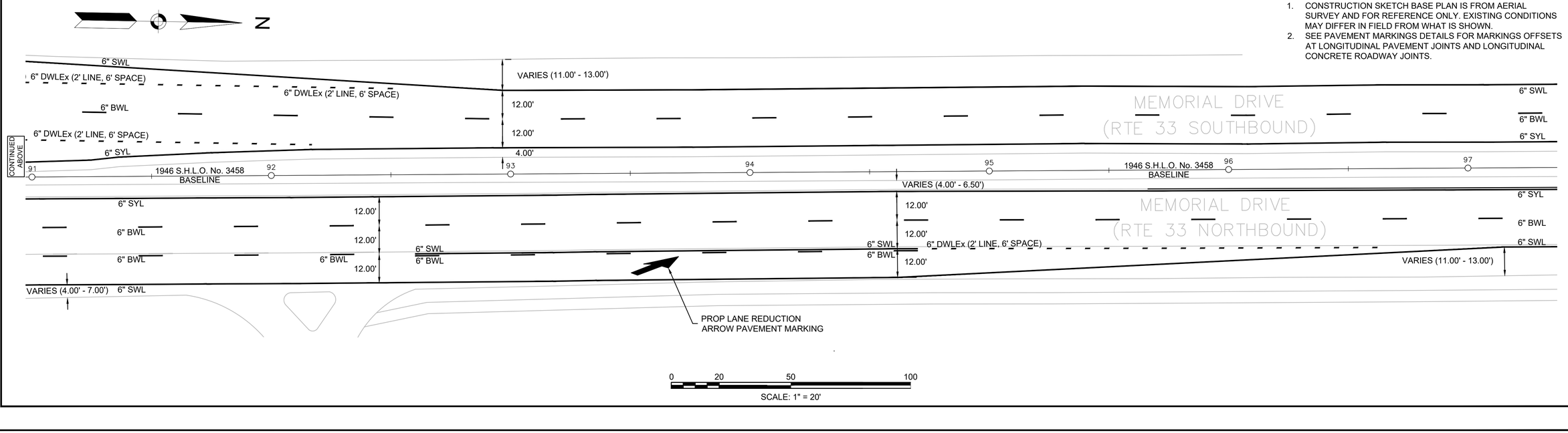

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0 20 50 100

SCALE: 1" = 20'

CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	27	59
PROJECT FILE NO.	612109		

PAVEMENT MARKINGS SKETCH

NOTES:

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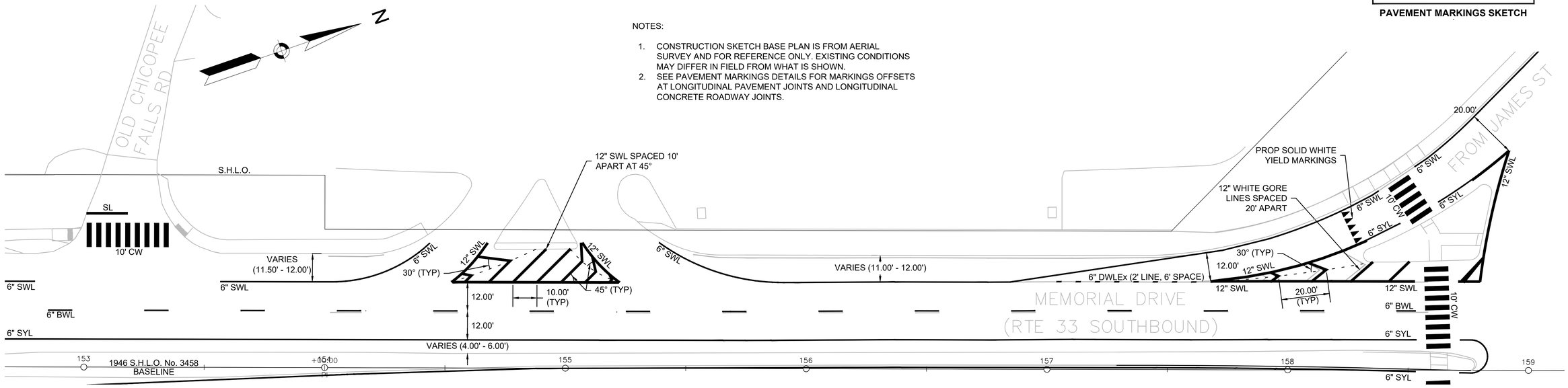

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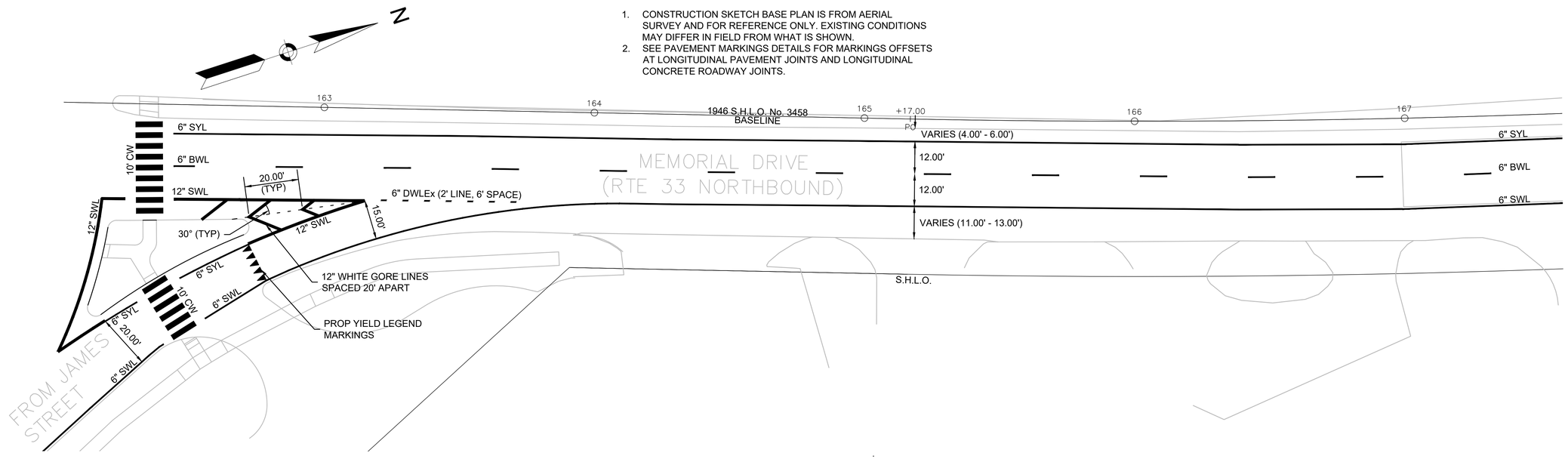

0 20 50 100

SCALE: 1" = 20'

NOTES:

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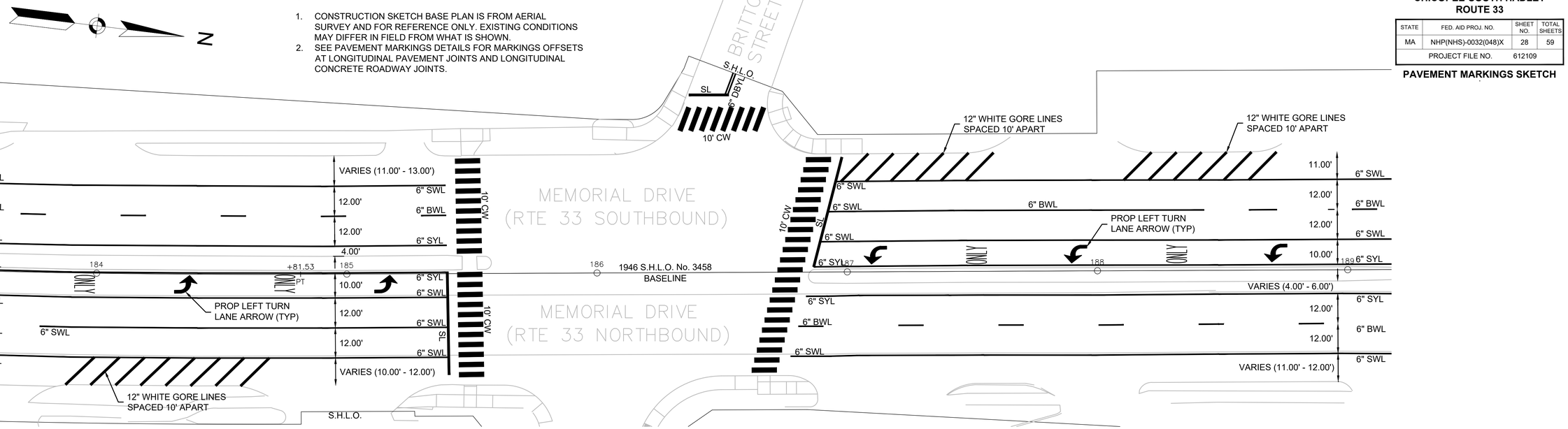
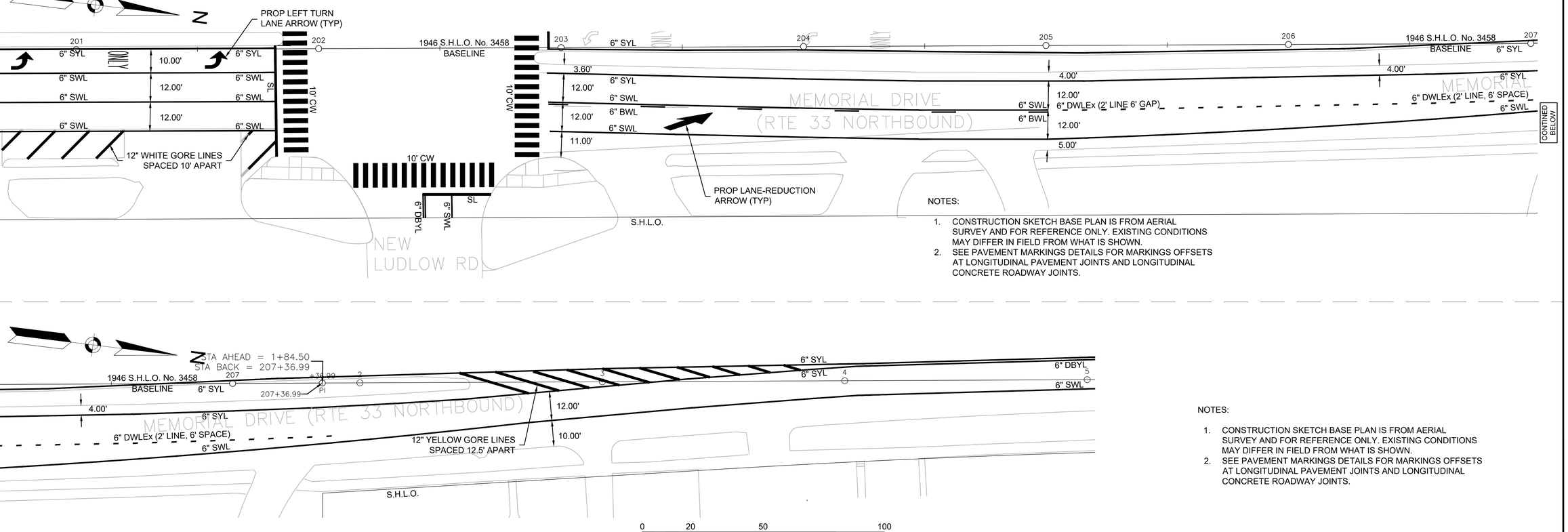
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	28	59
PROJECT FILE NO.	612109		

PAVEMENT MARKINGS SKETCH





NOTES:

1. CONSTRUCTION SKETCH BASE PLAN IS FROM AERIAL SURVEY AND FOR REFERENCE ONLY. EXISTING CONDITIONS MAY DIFFER IN FIELD FROM WHAT IS SHOWN.
2. SEE PAVEMENT MARKINGS DETAILS FOR MARKINGS OFFSETS AT LONGITUDINAL PAVEMENT JOINTS AND LONGITUDINAL CONCRETE ROADWAY JOINTS.

0 20 50 100

SCALE: 1" = 20'

CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	29	59
PROJECT FILE NO.	612109		

TEMPORARY TRAFFIC CONTROL PLANS

612109-HD-5-2-TTCP.DWG Plotted on 25-Jun-2025 1:25 PM

TEMPORARY TRAFFIC CONTROL NOTES

1. PLACEMENT OF CONSTRUCTION SIGNING, TRAFFIC CONTROL DEVICES, AND TEMPORARY PAVEMENT MARKINGS FOR EACH SET UP SHALL BE COMPLETE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. TYPICAL DAYTIME WORK HOURS ARE FROM 7:00 AM TO 3:30 PM ON WEEKDAYS, UNLESS OTHERWISE PERMITTED BY MASSDOT HIGHWAY DIVISION. ALL WORK SCHEDULES SHALL BE PRE-APPROVED BY THE DEPARTMENT PRIOR TO BEGINNING WORK.
3. WHERE THERE IS A DIFFERENCE IN ELEVATION BETWEEN MILLED PAVEMENT AND EXISTING PAVEMENT OR NEW PAVEMENT, THE CONTRACTOR SHALL PATCH A TEMPORARY HMA WEDGE WITH A 12:1 (OR FLATTER) SLOPE FOR A SMOOTH TRANSITION

TEMPORARY TRAFFIC CONTROL NOTES - CONCRETE PAVEMENT REPAIRS

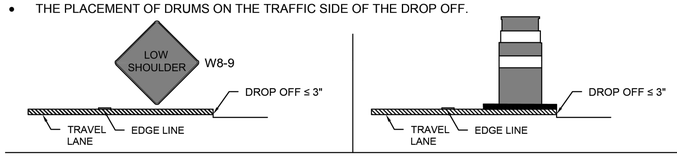
1. CONTRACTOR SHALL SUBMIT TO THE RESIDENT ENGINEER TRAFFIC MANAGEMENT PLANS FOR REVIEW AND APPROVAL BY MASSDOT HIGHWAY DIVISION.
2. TRAFFIC SETUPS FOR CONCRETE REPAIR WORK SHALL BE LIMITED TO $\frac{1}{2}$ MILE. THE ENGINEER MAY RESTRICT THE MAXIMUM LENGTH OF ANY ONE TEMPORARY TRAFFIC CONTROL SETUP DUE TO TRAFFIC AND CONGESTION CONCERNS.
3. CHANNELIZATION SHALL BE ACCOMPLISHED THROUGH THE USE OF REFLECTORIZED PLASTIC DRUMS IN ACCORDANCE WITH THE CURRENT M.U.T.C.D.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVEWAYS AND ACCESS TO THE ROADWAY THROUGHOUT CONSTRUCTION. DRIVEWAY ACCESS SHALL BE MAINTAINED BY RESTRICTING THE WORK ZONE TO HALF OF THE DRIVEWAY WIDTH.
5. ALL DRUMS SHALL BE PLACED AND MOVED AS NECESSARY TO MAINTAIN ADEQUATE ABUTTER ACCESS AT ALL TIMES. WORK MAY REQUIRED ADDITIONAL SIGNS, DRUMS, AND OTHER TRAFFIC CONTROL DEVICES.
6. IF NECESSARY, DETOURS AT INTERSECTIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.
7. CROSS-SECTIONAL GRADE DIFFERENCE IN EXCESS OF 2" DURING NON-WORKING HOURS WILL REQUIRE DELINEATION BY USE OF REFLECTORIZED DRUMS OR CONES, AS DIRECTED BY MASSDOT HIGHWAY DIVISION.
8. CROSS SECTION GRADE DIFFERENCES IN EXCESS OF 4" DURING NON-WORKING HOURS SHALL BE PROTECTED BY BACKFILLING WITH A WEDGE OF EARTHWORK TO BE COMPACTED AT A 4:1 SLOPE AND WILL ALSO REQUIRE DELINEATION OF DRUMS.

SHORT-TERM PAVEMENT EDGE DROP-OFFS

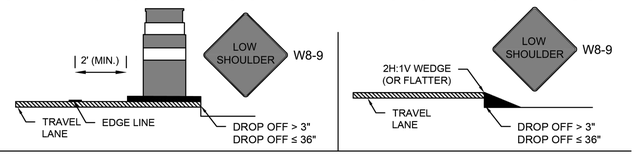
THIS GUIDANCE IS ADOPTED FROM THE *ROADSIDE DESIGN GUIDE*, 4TH EDITION.

PAVEMENT DROP-OFFS MAY OCCUR DURING PAVING, EXCAVATION, AND OTHER CONSTRUCTION ACTIVITIES. DROP-OFFS CREATE HAZARDS FOR VEHICLES IF NOT PROPERLY MITIGATED. THE FOLLOWING APPLIES FOR ALL ROADS WITH SPEED LIMITS GREATER THAN 30 MPH; FOR ROADS WITH SPEEDS OF 30 MPH OR LESS, TREATMENTS FOR PAVEMENT EDGE DROP-OFFS SHALL BE AT THE DISCRETION OF THE ENGINEER. DROP-OFFS BETWEEN ADJACENT, OPEN TRAVEL LANES SHALL NOT EXCEED 2", AND ANY DROP-OFF IN EXCESS OF 3" SHALL NOT BE LEFT UNATTENDED WITHOUT ONE OF THESE MITIGATION MEASURES APPLIED.

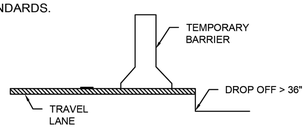
- SHOULDER DROP-OFFS 3" OR LESS ADJACENT TO A SHOULDER OR ACTIVE LANE SHOULD BE MITIGATED BY:
- A W8-9 (LOW SHOULDER) SIGN IN ADVANCE OF AND AT REGULAR INTERVALS THROUGHOUT THE TREATMENT; OR
- THE PLACEMENT OF DRUMS ON THE TRAFFIC SIDE OF THE DROP OFF.



- SHOULDER DROP-OFFS GREATER THAN 3" BUT LESS THAN OR EQUAL TO 36" MUST BE MITIGATED BY:
- A W8-9 (LOW SHOULDER) SIGN IN ADVANCE OF AND AT REGULAR INTERVALS THROUGHOUT THE TREATMENT AND THE PLACEMENT OF DRUMS ON THE TRAFFIC SIDE OF THE DROP-OFF, OFFSET AT LEAST 2' FROM THE TRAVEL LANE; OR
- A W8-9 (LOW SHOULDER) SIGN IN ADVANCE OF AND AT REGULAR INTERVALS THROUGHOUT THE TREATMENT AND THE PLACEMENT OF A TEMPORARY WEDGE OF MATERIAL ALONG THE FACE OF THE DROP-OFF. THE WEDGE SHOULD CONSIST OF STABLE MATERIAL PLACED ON A 2H:1V OR FLATTER SLOPE.



- SHOULDER DROP-OFFS GREATER THAN 36" MUST BE PROTECTED BY TEMPORARY BARRIER DESIGNED TO MASSDOT STANDARDS.



TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES) WIDTH	HEIGHT	TEXT	TEXT DIMENSIONS (INCHES) LETTER HEIGHT	VERTICAL SPACING	ARROW RTE MKR.	NUMBER OF SIGNS REQ'D	COLOR BACK-GROUND	LEGEND	BORDER	UNIT AREA (S.F.)	TOTAL AREA (S.F.)
G20-1	48	24	ROAD WORK NEXT 4 MILES	SEE FHWA 2004 STANDARD HIGHWAY SIGNS MANUAL & 2012 SUPPLEMENT (ENGLISH VERSION)			2	FLUOR-ESCENT ORANGE	BLACK	BLACK	8.00	16.00
R3-7L	30	30	LEFT LANE MUST TURN LEFT				4	FLUOR-ESCENT ORANGE	BLACK	BLACK	6.25	25.00
R4-7	24	30					8	WHITE	BLACK	BLACK	5.00	40.00
R9-9	24	12	SIDEWALK CLOSED				2	FLUOR-ESCENT ORANGE	BLACK	BLACK	2.00	4.00
R5-1	36	36	DO NOT ENTER				1	WHITE	RED	RED	9.00	9.00
R9-11	24	12	SIDEWALK CLOSED AHEAD CROSS HERE				1	FLUOR-ESCENT ORANGE	BLACK	BLACK	2.00	2.00
R9-11a	24	12	SIDEWALK CLOSED CROSS HERE				2	FLUOR-ESCENT ORANGE	BLACK	BLACK	2.00	4.00
W1-4L	36	36					4	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	36.00
W1-4R	36	36					4	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	36.00
W1-4cL	48	48					2	FLUOR-ESCENT ORANGE	BLACK	BLACK	16.00	32.00
W1-4cR	48	48					2	FLUOR-ESCENT ORANGE	BLACK	BLACK	16.00	32.00
W4-2L	36	36					5	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	45.00
W4-2R	36	36					3	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	27.00
W5-1	36	36	ROAD NARROWS				8	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	72.00
W8-1	36	36	BUMP				2	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	18.00
W8-9	36	36	LOW SHOULDER				5	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	45.00

TRAFFIC SIGN SUMMARY

CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	31	59
	PROJECT FILE NO. 612109		

TEMPORARY TRAFFIC CONTROL PLANS

IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES) WIDTH	HEIGHT	TEXT	TEXT DIMENSIONS (INCHES) LETTER HEIGHT	VERTICAL SPACING	ARROW RTE MKR.	NUMBER OF SIGNS REQ'D	COLOR BACK-GROUND	LEGEND	BORDER	UNIT AREA (S.F.)	TOTAL AREA (S.F.)
W8-15	36	36	GROOVED PAVEMENT	SEE FHWA 2004 STANDARD HIGHWAY SIGNS MANUAL & 2012 SUPPLEMENT (ENGLISH VERSION)			2	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	18.00
W8-15p	24	18					2	FLUOR-ESCENT ORANGE	BLACK	BLACK	3.00	6.00
W8-25	36	36	SHOULDER ENDS				1	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	9.00
W9-3	36	36	CENTER LANE CLOSED AHEAD				1	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	9.00
W11-2	36	36					4	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	36.00
W12-1	36	36					1	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	9.00
W16-9p	24	12	AHEAD				2	FLUOR-ESCENT ORANGE	BLACK	BLACK	2.00	4.00
W16-7pL	24	12					2	FLUOR-ESCENT ORANGE	BLACK	BLACK	2.00	4.00
W20-1	36	36	ROAD WORK AHEAD				4	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	36.00
W20-1a	36	36	ROAD WORK 1000FT				2	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	18.00
W20-1b	36	36	ROAD WORK 1500FT				2	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	18.00
W20-1c	36	36	ROAD WORK 500 FT				48	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	432.00
W20-4	36	36	ONE LANE ROAD AHEAD				6	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	54.00
W20-5L	36	36	LEFT LANE CLOSED AHEAD				6	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	54.00
W20-5R	36	36	RIGHT LANE CLOSED AHEAD				3	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	27.00
W20-7	36	36	FLAGGER AHEAD				4	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	36.00

IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES) WIDTH	HEIGHT	TEXT	TEXT DIMENSIONS (INCHES) LETTER HEIGHT	VERTICAL SPACING	ARROW RTE MKR.	NUMBER OF SIGNS REQ'D	COLOR BACK-GROUND	LEGEND	BORDER	UNIT AREA (S.F.)	TOTAL AREA (S.F.)
W21-5	36	36	SHOULDER WORK	SEE FHWA 2004 STANDARD HIGHWAY SIGNS MANUAL & 2012 SUPPLEMENT (ENGLISH VERSION)			1	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	9.00
W21-5bR	36	36	RIGHT SHOULDER CLOSED XXX				1	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	9.00
W21-5aR	36	36	RIGHT SHOULDER CLOSED				1	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	9.00
MA-R2-10a	48	48	WORK ZONE SPEEDING FINES DOUBLED	SEE MassDOT 2016 STANDARD SIGNS BOOK			45	FLUOR-ESCENT ORANGE	BLACK	BLACK	16.00	720.00
MA-R2-10e	36	36	END ROAD WORK DOUBLE FINES END				46	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	414.00
MA-W20-7b	48	36	POLICE OFFICER AHEAD				2	FLUOR-ESCENT ORANGE	BLACK	BLACK	12.00	24.00
MA-W24-2	36	36	LANES SHIFT AHEAD				2					
MA-W28-1	48	48	RUMBLE STRIPS AHEAD				6	FLUOR-ESCENT ORANGE	BLACK	BLACK	16.00	96.00
MA-W30-8R	36	36	SQUEEZE RIGHT				2	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	18.00
MA-W4-7R	36	36	THRU TRAFFIC MERGE RIGHT				4	FLUOR-ESCENT ORANGE	BLACK	BLACK	9.00	36.00

NOTES:

THE TRAFFIC SIGN SUMMARY WAS CREATED FOR THE FOLLOWING:

CONSTRUCTION STANDARDS DRAWING NUMBER 852.1.1 - SIDEWALK DETOUR
CONSTRUCTION STANDARDS DRAWING NUMBER 852.1.2 - SIDEWALK DIVERSION
CONSTRUCTION STANDARDS DRAWING NUMBER 852.1.3 - PEDESTRAIN DETOUR FOR CROSSWALK CLOSURE
CONSTRUCTION STANDARDS DRAWING NUMBER 852.4.4 - ALTERNATING ONE-WAY (TRAFFIC OFFICER)
CONSTRUCTION STANDARDS DRAWING NUMBER 852.5.1 - TWO LANE ROAD CENTER OF ROAD CLOSURE
CONSTRUCTION STANDARDS DRAWING NUMBER 852.5.2 - TWO LANE ROAD CENTER OF ROAD CLOSURE WITH DROP-OFF PROTECTION
CONSTRUCTION STANDARDS DRAWING NUMBER 852.5.3 - TWO LANE ROAD SHOULDER CLOSURE
CONSTRUCTION STANDARDS DRAWING NUMBER 852.5.4 - TWO LANE ROAD HALF ROAD CLOSURE
CONSTRUCTION STANDARDS DRAWING NUMBER 852.7.1 - DIVIDED HIGHWAY RIGHT SHOULDER CLOSURE (SHORT TERM)
CONSTRUCTION STANDARDS DRAWING NUMBER 852.7.3 - DIVIDED HIGHWAY RIGHT LANE CLOSURE
CONSTRUCTION STANDARDS DRAWING NUMBER 852.7.4 - DIVIDED HIGHWAY LEFT LANE CLOSURE
CONSTRUCTION STANDARDS DRAWING NUMBER 852.7.7 - DIVIDED HIGHWAY CENTER LANE CLOSURE (SHORT TERM)
CONSTRUCTION STANDARDS DRAWING NUMBER 852.7.10 - DIVIDED HIGHWAY MULTIPLE LANE SHIFT
CONSTRUCTION STANDARDS DRAWING NUMBER 852.7.11 - DIVIDED HIGHWAY SCARIFIED PAVEMENT/STEEL PLATE
CONSTRUCTION STANDARDS DRAWING NUMBER 852.10.1 - INTERSECTION CENTER CLOSURE
CONSTRUCTION STANDARDS DRAWING NUMBER 852.10.2 - INTERSECTION QUADRANT CLOSURE
CONSTRUCTION STANDARDS DRAWING NUMBER 852.10.3 - INTERSECTION FAR SIDE INSIDE LANE CLOSURE
CONSTRUCTION STANDARDS DRAWING NUMBER 852.10.4 - INTERSECTION FAR SIDE RIGHT LANE CLOSURE
CONSTRUCTION STANDARDS DRAWING NUMBER 852.10.6 - INTERSECTION MULTI-LANE CLOSURE (LOW SPEED)
PROJECT LIMIT SIGNS TO REMAIN IN PLACE FOR PROJECT DURATION (SEE SHEET 29)
SHORT-TERM PAVEMENT EDGE DROP OFFS (SEE SHEET 30)

CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	32	59
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TEMPORARY TRAFFIC CONTROL PLANS

612109-HD-5.3-TMP.DWG Plotted on 25-Jun-2025 1:26 PM

NAD 83 N

WELLS AVE (PRIVATE WAY)

MONTGOMERY ST (PUBLIC–VARIABLE WIDTH)

SHERIDAN ST (PUBLIC–VARIABLE WIDTH)

MEMORIAL DRIVE (RTE 33 SOUTHBOUND) (PUBLIC–VARIABLE WIDTH)

MEMORIAL DRIVE (RTE 33 NORTHBOUND) (PUBLIC–VARIABLE WIDTH)

JACKSON STREET (STATUS UNKNOWN)

PRIDE REAL ESTATE, LLC BK/PG 24355/427 PID 0230_00013 # MONTGOMERY STREET

MS HOMES, LLC BK/PG 22555/350 PID 0230_00014 # MONTGOMERY STREET

N'ZABANDORA APPOLINAIRE AND HABONHIMANA MATIRDE BK/PG 22002/533 PID 0230_00015 #49 MONTGOMERY STREET

PRIDE REAL ESTATE, LLC BK/PG 24355/427 PID 0230_00012 #27 MONTGOMERY STREET

3450
N: 2885523.781'
E: 362781.888'
EL: 125.361'
REB CAP MASSDOT

2014 CITY LAYOUT | 1982 CITY LAYOUT

1982 CITY LO

2014 CITY LO

1827 CITY LO

1872 CITY LO

1946 S.H.L.O. No. 3458 | 1872 CITY LAYOUT

LOCATION LINE 1946 SHLO No. 3458

STATE HIGHWAY BEGINS

RTE 33 NORTH

RTE 141

N12°11'40"W 142.93'

N77°48'20"E 50.98'

N5°12'38"W (NADB3)= N5°12'22"W (1975)= N6°08'26"E (1946) 172.24'

N15°15'10"E (NADB3)= 259.74'

N15°15'26"E (1975)= N26°36'14"E (1946)

S84°53'20"W 124.40'

S15°15'10"W 93.88'

S14°36'52"E 65.16'

N26°02'26"W 54.57'

N21°26'06"E 334.83'

R=940.00' L=164.78'

263'

+72.24 PI

+98.57 PI

+58.31 PI

PROP SIGN SEE CONSTRUCTION PLANS

PROP SIGN SEE CONSTRUCTION PLANS

RIGHT SHOULDER CLOSED AHEAD W21-5b

RIGHT SHOULDER CLOSED W21-5a

BENCHMARK: F SQUARE CUT ON S.E. COR OF CNC LPL BASE EL=143.21'

3451
N: 2885809.128'
E: 362914.156'
EL: 136.857'
PP MHE RIM MASSBOT

C. LLANOR ROY AND CARL D. ROY BK/PG 22826/530 PID 0230_00039 #72 MONTGOMERY STREET

GEORGE F. DURAND AND JANALYN L. DURAND BK/PG 14302/268 PID 0230_00040 #66 MONTGOMERY STREET

BRENDA M. DEPOT BK/PG 7227/319 PID 0230_00038 # MONTGOMERY STREET

BRENDA M. DEPOT BK/PG 7227/319 PID 0230_00044 #76 MONTGOMERY ST

BRENDA M. BAK BK/PG 20539/337 PID 0230_00045A JACKSON STREET

CONTROLLED CHAOS REAL ESTATE LLC BK/PG 23551/375 PID 0230_00041 PID 0230_00042 #62 MONTGOMERY STREET

BENJAMIN L. FITZGIBBONS BK/PG 20151/164 PID 0230_00043 #68 MONTGOMERY ST.

TIGER ATHLETIC CLUB OF CHICOPEE, INC BK/PG 3204/108 PID 0202_00004 #14 MONTGOMERY STREET

STANLEY A. SZLACHETKA BK/PG 5866/235 PID 0230_00050 #28 MONTGOMERY STREET

STANLEY A. SZLACHETKA AS TO AN 1/2 INTEREST, AND STANLEY J. SZLACHETKA, AND AUDREY M. SZLACHETKA AS TO AN UNDIVIDED 1/2 INTEREST BK/PG 6671/458 PID 0230_00051 #10 SHERIDAN ST.

25 SHERIDAN, LLC BK/PG 16971/55 PID 0230_00047 PID 0230_00048 PID 0230_00049 #17 SHERIDAN STREET

25 SHERIDAN, LLC BK/PG 16971/46 PID 0231_00063 # JACKSON STREET

OWNER UNKNOWN BK/PG PID 0230_00046 # MEMORIAL DR

JAINIS J. COLON VAZQUEZ AND DAISY J. VAZQUEZ FLORES BK/PG 23797/580 PID 0231_00062 #23 JACKSON STREET

MICHAEL F. RIBEIRO AND AMY M. RIBEIRO BK/PG 20069/98 PID 0231_00061 #37 JACKSON STREET

CONTINUED ON SHEET NO. 33

0 20 50 100
SCALE: 1" = 20'

CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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TEMPORARY TRAFFIC CONTROL PLANS

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NAD 83

GARY H. BOUSQUET, JR AND SAMARA R. SUPRENANT BK/PG 14456/174 PID 0230_00035 #88 MONTGOMERY STREET

FRANKSTONE GROUP, LLC BK/PG 21197/255 PID 0230_00036 MONTGOMERY ST

SAMARA R. SUPRENANT AND GARY H. BOUSQUET, JR BK/PG 18966/462 PID 0230_00045 # JACKSON STREET

ERIK GOVONI BK/PG 23524/482 PID 0230_00033 PID 0230_00033 # MONTGOMERY STREET

GEORGE A. CROTEAU AND DONNA A. FONTAINE BK/PG 24075/552 PID 0257_00002 #23 FITZPATRICK LN

CITY OF CHICOPEE BK/PG 19743/347 FITZPATRICK LN

MARC E. AUBE AND JENNY L. AUBE BK/PG 14109/322 PID 0257_00003 #28 FITZPATRICK LN

FLAG REALTY, LLC BK/PG 18690/115 PID 0257_00006 #126 MONTGOMERY STREET

DEBORAH GEANACOPO BK/PG 19063/4 PID 0258_000 #25 WOODROW AV

FITZPATRICK LANE
(STATUS UNKNOWN)

E 363000 N 2886500

SB ELP N24°08'49"E 0.30'REC.TO BND.

IP "
RB

LOCATION LINE 1946 SHLO No. 3458

N38°09'58"E 473.83'

AREA INACCESSIBLE

6'WOOD FENCE

4'CLF

EDGE OF WOODS

GRASS

'E 334.83'

5
N: 2886248.304'
E: 363000.325'
EL: 160.577'
STN 5.660+85.570

BENCHMARK: E
X-CUT ON LPL EASTERLY BOLT
EL=173.46'

MEMORIAL DRIVE
(RTE 33 SOUTHBOUND)
(PUBLIC-VARIABLE WIDTH)

CONTINUED ON SHEET NO. 32

MILE MARKER POST

R=1000.00'
L=341.25'

+98.56
PT
+99.56

N34°48'17"E (NAD83)= 448.00'
N34°48'33"E (1975)=
N46°09'21"E (1946)

CONTINUED ON SHEET NO. 34

REFLECTORIZED DRUM
20' O.C. IN TAPER (TYP)

MEMORIAL DRIVE
(RTE 33 NORTHBOUND)
(PUBLIC-VARIABLE WIDTH)

REFLECTORIZED DRUM
40' O.C. (TYP)

100' TAPER

263'

305' BUFFER

MEMORIAL DR

12"PINE

WOOD DECK

S17°58'43"E 36.43'

S71°39'04"W 50.89'

S17°26'46"E 30.14'

S72°03'14"W 30.00'

STEEL GUARDRAIL

WOOD TIMBER

6'WOOD FENCE

S37°20'35"W 130.87'

S30°30'56"W 200.56'

S26°26'27"W 29.87'

S27°20'01"W 16.25'

4
N: 2886483.909'
E: 363246.090'
EL: 179.143'
STN

BLANK SIGN

SEWER EASEMENT BK/PG 19743/347 CITY OF CHICOPEE

SB ELP N32°18'46"W 0.42'REC.TO BND.

SB ELP N12°25'41"E 0.30'REC.TO BND.

MIGUEL F. RIBEIRO AND AMY M. RIBEIRO BK/PG 20069/98 PID 0231_00061 #37 JACKSON STREET

NIS J. COLON VAZQUEZ DAISY J. VAZQUEZ FLORES BK/PG 23797/580 PID 0231_00062 #23 JACKSON STREET

RIGHT SHOULDER CLOSED
W21-5a

JACKSON STREET
(STATUS UNKNOWN)

N, LLC
71/46
00063
STREET

MICHAEL A. CIECKO, JR. BK/PG 21489/195 PID 0231_00059 #36 JACKSON STREET

ROY FANTI BK/PG 5859/202 PID 0231_00053 # MEMORIAL DR

ROY ET ALS FANTI BK/PG 6440/533 (III) PID 0231_00052 # MEMORIAL DR

ROY FANTI BK/PG 5859/202 (II) PID 0231_00051 # PATRICK STREET

ROY FANTI BK/PG 5816/470 PID 0258_00016 # MEMORIAL DR

E 363250 N 2886250

0 20 50 100
SCALE: 1" = 20'

CHICOPEE-SOUTH HADLEY
ROUTE 33

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TEMPORARY TRAFFIC CONTROL PLANS

612109-HD-5.3-TMP.DWG Plotted on 25-Jun-2025 1:27 PM

NAD 83 N

DEBORAH GEANACOPOULOS
BK/PG 19063/423
PID 0258_00026
#25 WOODROW AVENUE

THOMAS GEANACOPOULOS
AND PATRICIA GAJDA
BK/PG 6773/361
PID 0258_00018
#18 MCGERTIE AVENUE

THOMAS GEANACOPOULOS
AND PATRICIA GAJDA
BK/PG 6773/362
PID 0258_00017
MEMORIAL DR

CHRISTOPHER M. KANE
AND SARAH L. KANE
BK/PG 23751/260
PID 0258_00019
#16 MCGERTIE AVENUE

CASIMIRA MATTHEWS
BK/PG 4229/203
PID 0258_00021
#81 JENNINGS ST

KETTY SILVA
BK/PG 10821/77
PID 0258_00020
#91 JENNINGS ST

KATHLEEN M. PIETRAS,
JEFFREY PIETRAS,
AND MICHAEL PIETRAS
BK/PG 19650/382
PID 0258_00036
#98 JENNINGS ST

McGERTIE AVE.
(PUBLIC–50' WIDE)

JENNINGS ST
(PUBLIC–50' WIDE)

CECILE DR
(PUBLIC)

1913 CITY LO
1941 COUNTY LO

E 363150 N 2886750

SEWER EASEMENT
BK/PG 19743/347
CITY OF CHICOPEE

N87°56'17"E 25.50'

6'WOOD FENCE

LOCATION LINE 1946 SHLO No. 3458 N21°29'21"E 129.98'

SB ELP
N4°43'57"E
0.31'REC.TO BND.

N25°29'01"E 177.54'

4'CLF

12"

N5°34'38"W 115.23'

SEWER EASEMENT
BK/PG 19743/347
CITY OF CHICOPEE

BENCHMARK: D
X–CUT ON S.E. LPL BOLT
EL=187.69'

MEMORIAL DRIVE
(RTE 33 SOUTHBOUND)
(PUBLIC–VARIABLE WIDTH)

MEMORIAL DRIVE
(RTE 33 NORTHBOUND)
(PUBLIC–VARIABLE WIDTH)

PROP SIGN
SEE CONSTRUCTION PLANS

ONE WAY
NO LEFT

ONE WAY
NO LEFT TURN

+47.56 PC

+44.25 PT

N16°45'17"E (NAD83)
N16°45'33"E (1975)
N28°06'21"E (1946)

R=1259.19' L=396.69'

TEMPORARY IMPACT ATTENUATOR,
NON-REDIRECTIVE, TL-3

REFLECTORIZED DRUM
40' O.C. (TYP)

½ TEMPORARY BARRIER LENGTH OF NEED

20:1 TAPER

TEMPORARY BARRIER (TL-3)

WORK ZONE

WORK ZONE

S28°56'10"W 410.89'

TYPE III BARRICADE

OWNER
UNKNOWN

SB ELP
N10°26'21"E
0.29'REC.TO BND.

S39°50'51"W 134.30'

LOCATION LINE 1946 SHLO No. 3458

E 363500 N 2886750

3
N: 2886844.188'
E: 363474.927'
EL: 189.549'
STN

2
N: 2887082.704'
E: 363563.476'
EL: 188.420'
STN

MILE MARKER POST

MILE MARKER

ROY FANTI
BK/PG 5816/470
PID 0258_00016
MEMORIAL DR

KED STORAGE, LLC
BK/PG 17322/160
PID 0258_00015
#105 SHERIDAN STREET

KED STORAGE, LLC
BK/PG 18870/525
PID 0258_0015A
MEMORIAL DR

DRAIN EASEMENT BK/PG 13485/387

S11°39'19"W 462.21'

2655.37'

CONTINUED ON SHEET NO. 33

CONTINUED ON SHEET NO. 35

0 20 50 100
SCALE: 1" = 20'

CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	35	59
	PROJECT FILE NO. 612109		

TEMPORARY TRAFFIC CONTROL PLANS

612109-HD-5.3-TMP.DWG Plotted on 25-Jun-2025 1:27 PM

1956 CITY LOT

1956 CITY LOT

NAD 83

N

CECILE DR
(PUBLIC)

N20°01'27"E 460.11'

LOCATION LINE 1946 SHLO No. 3458

E 363500

N 2887500

E 363750

N 2887250

100 FT WETLAND RESOURCE AREA BUFFER

MEMORIAL DRIVE
(RTE 33 SOUTHBOUND)
(PUBLIC–VARIABLE WIDTH)

BENCHMARK: C
X–CUT ON S.E. LPL BOLT
EL=183.53'

CONTINUED ON SHEET NO. 34

ONE WAY
NO LEFT TURN

MILE MARKER

DBGRL

CONC.

BIT. CONC.

27

28

29

30

31

32

N16°45'17"E (NAD83)= 2655.37'
N16°45'33"E (1975)=
N28°06'21"E (1946)

SYL

BWL

SWL

SGC

GG

BB

RIGHT TURN ONLY

CONTINUED ON SHEET NO. 36

MEMORIAL DRIVE
(RTE 33 NORTHBOUND)
(PUBLIC–VARIABLE WIDTH)

½ TEMPORARY BARRIER LENGTH OF NEED

TEMPORARY BARRIER (TL-3)

WORK ZONE

GRASS

RTE 291
NEXT RIGHT

BOB PION

MULCH

BILLBOARD

LOCATION LINE 1946 SHLO No. 3458

S16°45'17"W 2,299.62'

S73°14'43"E
15.00'

1
N: 2887374.165'
E: 363656.551'
EL: 181.813'
STN

EDGE OF WOODS

INV 6" PVC
EL=155.78'

INV 12" PVC
EL=154.15'

19"W 462.21'

50' WIDE HOLYOKE WATER POWER
BK/PG 1737/59

333 MEMORIAL DRIVE, LLC
BK/PG 17306/467
PID 0285_00020
#333 MEMORIAL DR

OHW

GE, LLC
70/525
0015A
L DR

333 ME
BK/
PID
#333

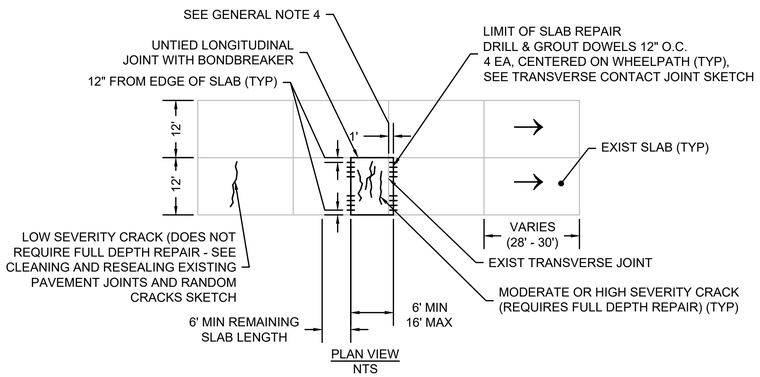
0 20 50 100

SCALE: 1" = 20'

CHICOPEE-SOUTH HADLEY
ROUTE 33

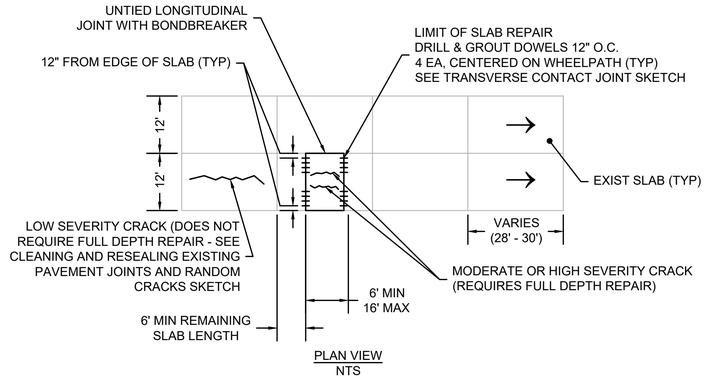
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	36	59
PROJECT FILE NO.	612109		

CONSTRUCTION DETAILS
CONCRETE PAVEMENT REPAIRS



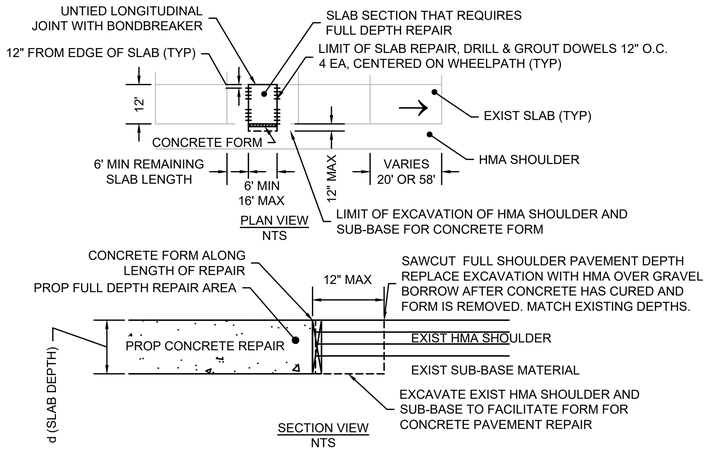
TRANSVERSE CRACK SEVERITY
LOW - CRACKS THAT ARE NOT SPALLED OR WITH SPALLING ≤ 10% OF THE CRACK LENGTH.
MODERATE - CRACKS WITH SPALLING ALONG > 10% AND ≤ 50% OF THE CRACK LENGTH.
HIGH - CRACKS WITH SPALLING ALONG > 50% OF THE CRACK LENGTH.

FULL DEPTH REPAIR
(TRANSVERSE CRACK)



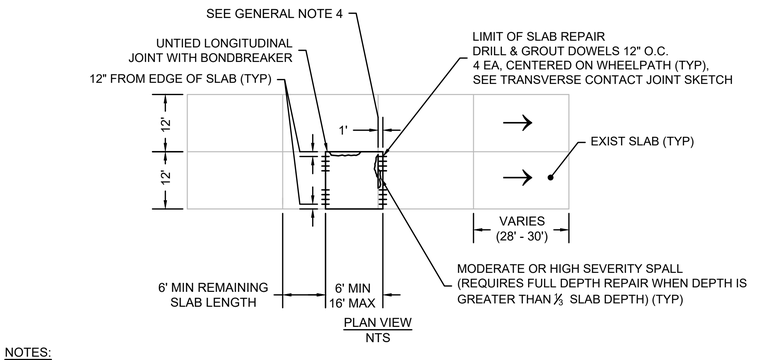
LONGITUDINAL CRACK SEVERITY
LOW - CRACK < ⅛" WIDE, NO SPALLING, NO MEASURABLE FAULTING
MODERATE - CRACK > ⅛" TO < ½" WIDE, WITH SPALLING < 3" OR FAULTING UP TO ½" HEIGHT
HIGH - CRACK ≥ ½" WIDE OR WITH SPALLING ≥ 3", FAULTING ≥ ½"

FULL DEPTH REPAIR
(LONGITUDINAL CRACK)



NOTE: 1. SEE CLEANING AND RESEALING EXISTING JOINTS AND RANDOM CRACKS SKETCH FOR FINAL JOINT CONSTRUCTION DETAILS.

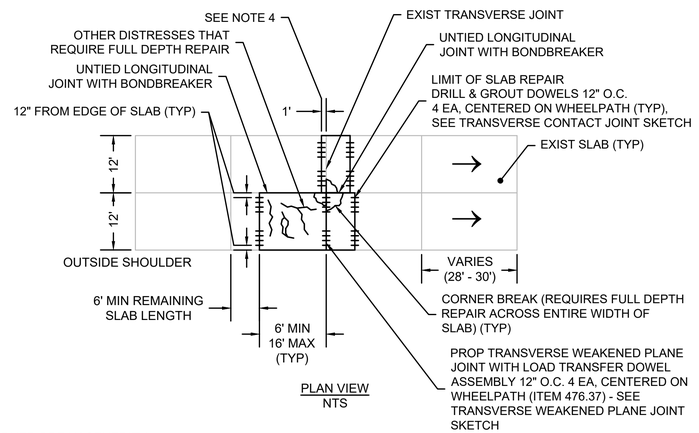
FULL DEPTH REPAIR
(CONCRETE REPAIR ADJACENT TO HMA SHOULDER)



NOTES:
1. JOINT SPALL IS CRACKING, BREAKING, CHIPPING OR FRAYING OF SLAB EDGES WITHIN 1' FROM THE FACE OF THE JOINT.

JOINT SPALL SEVERITY
LOW - SPALL THAT IS < 3" WIDE MEASURED FROM THE FACE OF JOINT WITH LOSS OF MATERIAL, OR SPALL WITH NO LOSS OF MATERIAL AND NO PATCHING.
MODERATE - SPALL 3" TO 6" WIDE MEASURED FROM THE FACE OF JOINT WITH LOSS OF MATERIAL.
HIGH - SPALL > 6" WIDE MEASURED FROM THE FACE OF JOINT WITH LOSS OF MATERIAL OR IS BROKEN INTO TWO OR MORE PIECES OR CONTAINS PATCH MATERIAL.

FULL DEPTH REPAIR
(LONGITUDINAL AND TRANSVERSE JOINT SPALL)



CORNER BREAK SEVERITY
ALL CORNER BREAKS EXCEPT FOR ONES WITH HAIRLINE CRACKS ONLY, REQUIRE FULL DEPTH REPAIR.

FULL DEPTH REPAIR
(CORNER BREAK)

GENERAL NOTES:

1. TIGHT HAIRLINE CRACKS THAT DO NOT EXTEND TO THE BOTTOM OF THE SLAB, DO NOT REQUIRE ANY TREATMENT, SEALING, OR REPAIR.
2. ALL CONCRETE FOR REPAIRS SHALL BE HIGH EARLY STRENGTH, TYPE III, 5000 PSI ¾" 705 PORTLAND CEMENT CONCRETE, FINISHED TO GRADE, SLOPE, AND TEXTURE.

FULL DEPTH REPAIR NOTES:

3. FULL DEPTH REPAIRS SHALL EXTEND THE FULL WIDTH OF THE CONCRETE SLAB.
4. IF PATCH BOUNDARY WIDTH FALLS WITHIN 6' OF AN EXISTING TRANSVERSE JOINT THAT DOES NOT REQUIRE REPAIR, THE PATCH SHALL EXTEND 1' BEYOND THE TRANSVERSE JOINT INTO THE ADJACENT SLAB.
5. THE ENTIRE SLAB SHALL BE REPLACED IF THERE ARE MULTIPLE INTERSECTING CRACKS.
6. PNEUMATIC TOOLS USED TO EXCAVATE UNSOUND OR DETERIORATED CONCRETE SHALL HAVE A MAXIMUM WEIGHT OF 30 POUNDS. IF SOUND CONCRETE IS DAMAGED DURING CONCRETE EXCAVATION WITH THE PNEUMATIC TOOLS, THEN LIGHTER TOOLS SHALL BE USED.

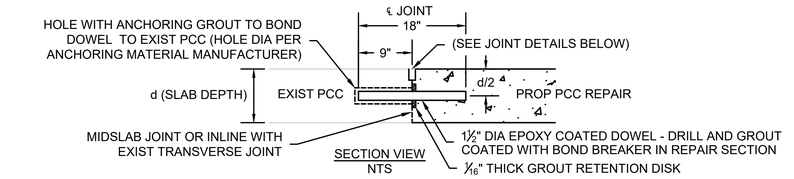
ROADWAY DIAMOND GRINDING NOTES:

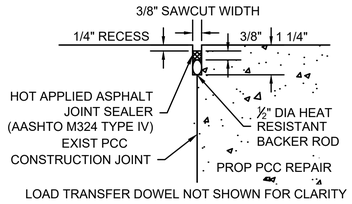
7. DIAMOND GRINDING OF ROADWAY SHALL OCCUR AFTER FULL AND PARTIAL DEPTH CONCRETE REPAIR ARE COMPLETE AND PRIOR TO CLEANING AND SEALING JOINTS AND RANDOM CRACKS.
8. CROSS SLOPES TO MATCH.

CHICOPEE-SOUTH HADLEY
ROUTE 33

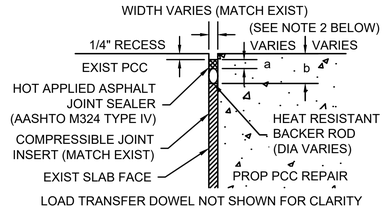
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	37	59
PROJECT FILE NO.	612109		

CONSTRUCTION DETAILS
CONCRETE PAVEMENT REPAIRS



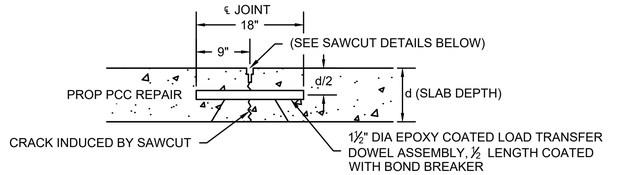


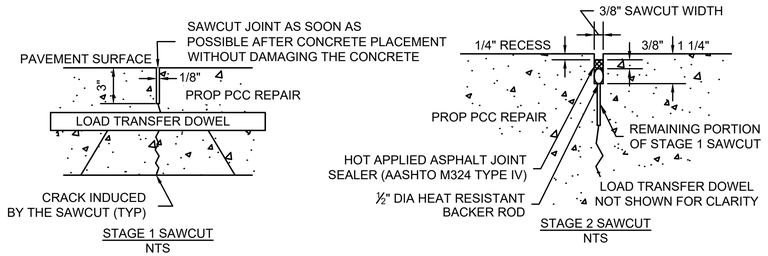
MIDSLAB JOINT
(USE WHERE PROPOSED JOINT DOES NOT FALL IN LINE WITH A TRANSVERSE JOINT IN THE ADJACENT LANE)



EXISTING TRANSVERSE JOINT
(USE WHERE PROPOSED JOINT FALLS IN LINE WITH A TRANSVERSE JOINT IN THE ADJACENT LANE)

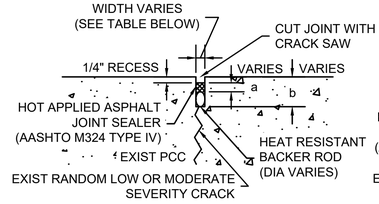
FULL DEPTH REPAIR
(TRANSVERSE CONTACT JOINT BETWEEN REPAIRED SLAB AND EXISTING SLAB)





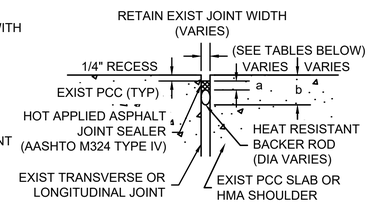
NOTE: SEE PLAN SHEET FOR TYPICAL DOWEL PLACEMENT AND LOCATIONS.

FULL DEPTH REPAIR
(TRANSVERSE WEAKENED PLANE JOINT BETWEEN ADJACENT FULL DEPTH REPAIRS)



CRACK WIDTH	RESERVIOR DEPTH (a)	BACKER ROD DIA	JOINT DEPTH (b)
⅛"	⅛"	¼"	¾"
¼"	¼"	⅜"	1"
⅜"	⅜"	½"	1¼"
½"	½"	⅝"	1½"

RANDOM CRACK
NTS



JOINT WIDTH	RESERVIOR DEPTH (a)	BACKER ROD DIA	JOINT DEPTH (b)
SEE CRACK CHART FOR ⅛" < WIDTHS < ½"			
⅝"	⅝"	¾"	1¼"
¾"	¾"	⅞"	2"
⅞"	⅞"	1 "	2¼"
1"	1"	1¼"	2¾"
1¼"	1¼"	1½"	3¼"
1½"	1½"	2"	4¼"

EXISTING TRANSVERSE OR LONGITUDINAL JOINT
NTS

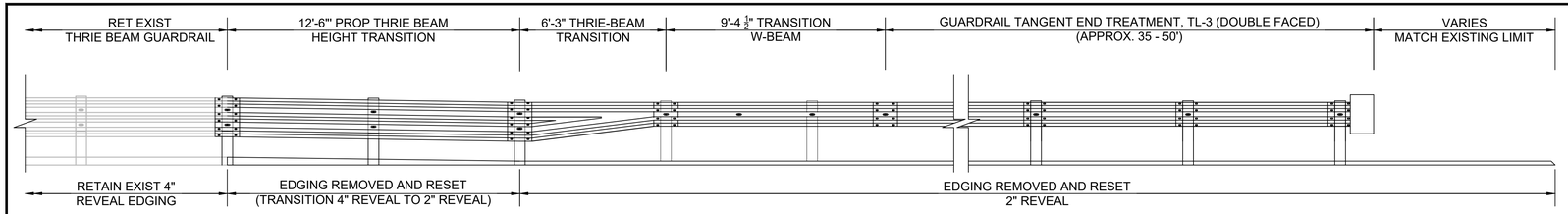
RANDOM CRACK SEVERITY
LOW - CRACK < ⅛" WIDE, NO SPALLING, NO MEASURABLE FAULTING
MODERATE - CRACK > ⅛" TO < ½" WIDE, WITH MINIMAL SPALLING

CLEANING AND RESEALING EXISTING PAVEMENT JOINTS AND RANDOM CRACKS
(SECTION VIEW)

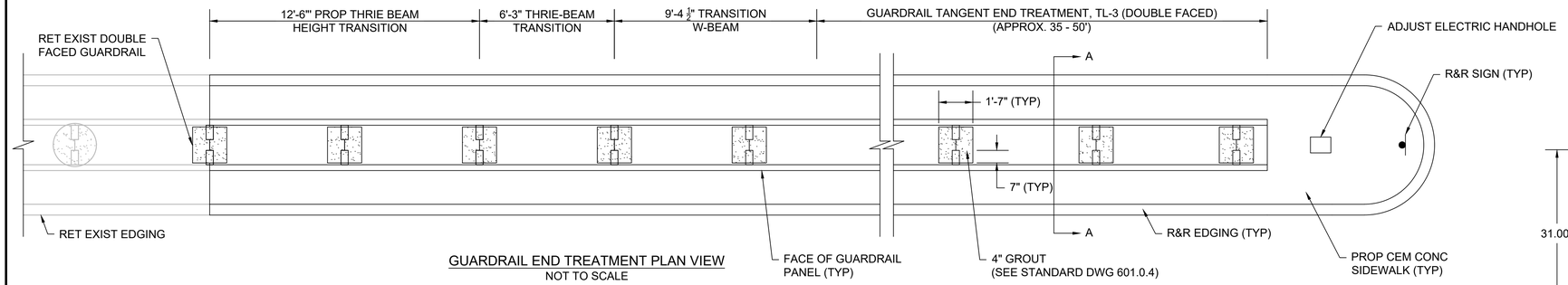
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	38	59
	PROJECT FILE NO. 612109		

CONSTRUCTION DETAILS



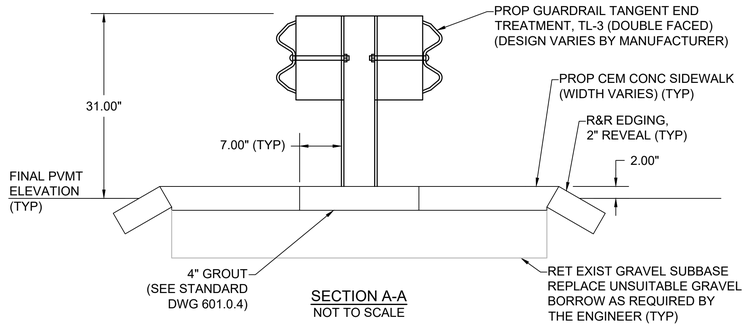
GUARDRAIL END TREATMENT ELEVATION VIEW
NOT TO SCALE



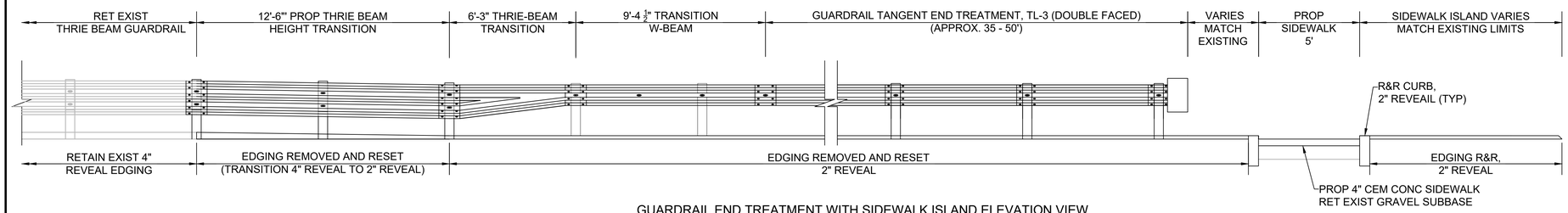
GUARDRAIL END TREATMENT PLAN VIEW
NOT TO SCALE

55+75±	105+75±	161+25±
57+25±	126+00±	187+00±
82+75±	127+50±	201+50±
84+25±	135+75±	203+00±
104+00±	159+75±	2+25±

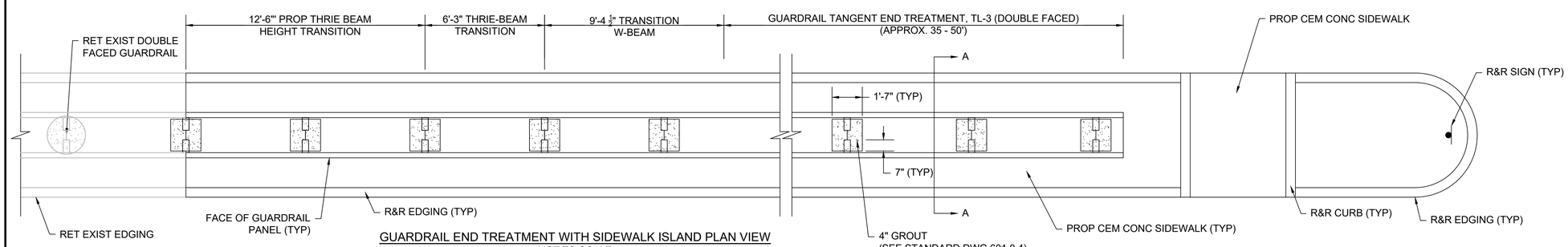
NOTE:
1. ADJUST ALL EXISTING STRUCTURES TO NEW MEDIAN ISLAND GRADE.
2. REMOVE AND RESET OR REPLACE ALL EXISTING SIGNS ON ISLAND PER ENGINEER.



SECTION A-A
NOT TO SCALE



GUARDRAIL END TREATMENT WITH SIDEWALK ISLAND ELEVATION VIEW
NOT TO SCALE



GUARDRAIL END TREATMENT WITH SIDEWALK ISLAND PLAN VIEW
NOT TO SCALE

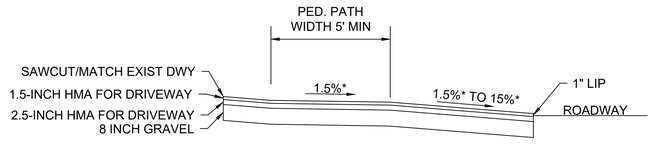
35+50±	134+00±
36+75±	148+00±
81+50±	162+50±
85+50±	185+50±

NOTE:
1. ADJUST ALL EXISTING STRUCTURES TO NEW MEDIAN ISLAND GRADE.
2. REMOVE AND RESET OR REPLACE ALL EXISTING SIGNS ON ISLAND PER ENGINEER.

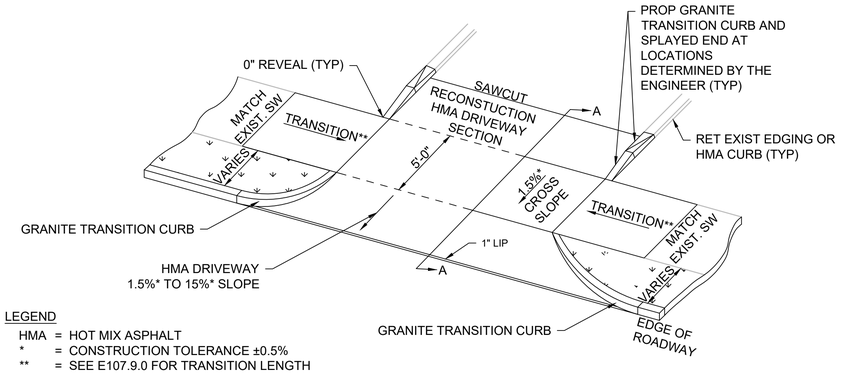
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	39	59
	PROJECT FILE NO. 612109		

CONSTRUCTION DETAILS

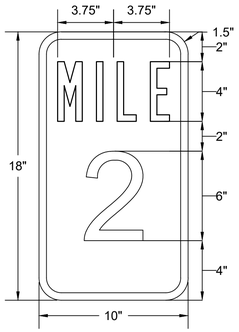


HOT MIX ASPHALT SIDEWALK SECTION A-A

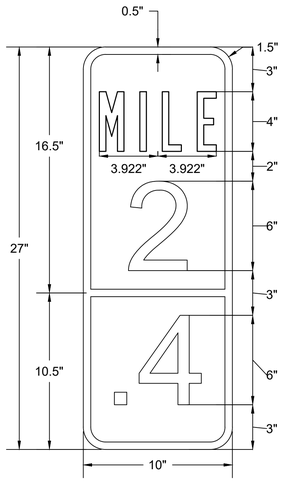


LEGEND
HMA = HOT MIX ASPHALT
* = CONSTRUCTION TOLERANCE ±0.5%
** = SEE E107.9.0 FOR TRANSITION LENGTH

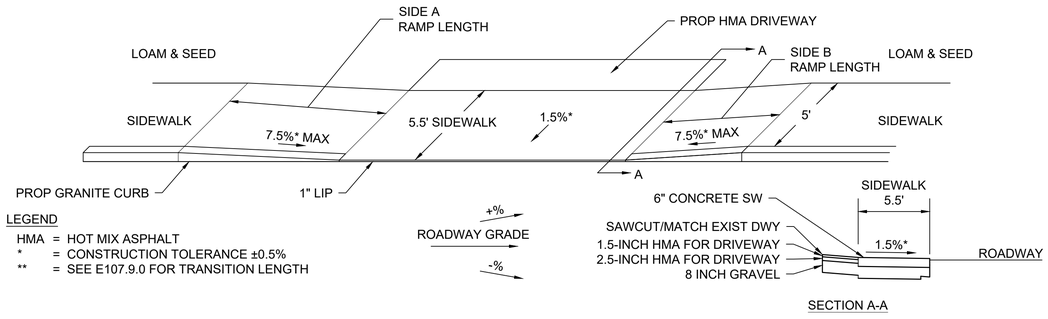
SIDEWALK AT DRIVEWAY - FULL WIDTH SIDEWALK
NOT TO SCALE
E 107.8.1 - MODIFIED



REFLECTORIZED REFERENCE LOCATION SIGN
WHOLE MILE
NOT TO SCALE



REFLECTORIZED REFERENCE LOCATION SIGN
TENTH OF MILE
NOT TO SCALE

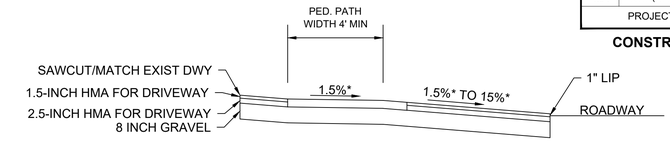


LEGEND
HMA = HOT MIX ASPHALT
* = CONSTRUCTION TOLERANCE ±0.5%
** = SEE E107.9.0 FOR TRANSITION LENGTH

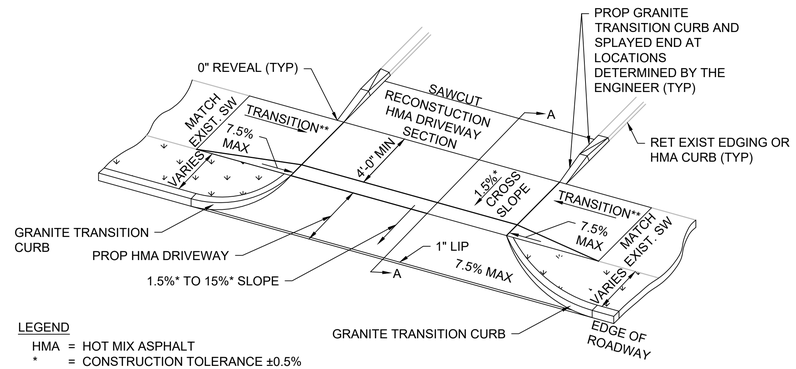
SECTION A-A

DWY #	DRIVEWAY LOCATION		ROADWAY GUTTER SLOPE	SIDEWALK WIDTH	RAMP LENGTH	
	STREET ADDRESS	STATION LOCATION			SIDE A	SIDE B
1	15-17 SHERIDAN STREET	12+29.14, 35.66' RT	-3.86%	5.5'	14'	6.5'
2	----	21+07.38, 34.68' RT	-3.17%	5.5'	14'	6.5'
3	----	22+28.76, 34.76' RT	-1.95%	5.5'	9'	6.5'
4	333 MEMORIAL DRIVE	31+14.77, 45.14' RT	0.10%	5.5'	6.5'	7.67'

CONCRETE SIDEWALK THROUGH DRIVEWAYS WITH LANDSCAPING
NOT TO SCALE
E 107.8.1 - MODIFIED

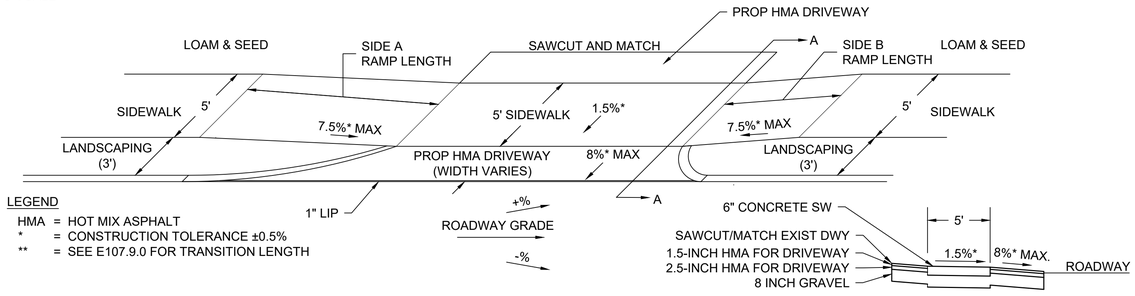


HOT MIX ASPHALT SIDEWALK SECTION A-A



LEGEND
HMA = HOT MIX ASPHALT
* = CONSTRUCTION TOLERANCE ±0.5%
** = SEE E107.9.0 FOR TRANSITION LENGTH

SIDEWALK AT DRIVEWAY - MINIMUM WIDTH SIDEWALK
NOT TO SCALE
E 107.8.1 - MODIFIED

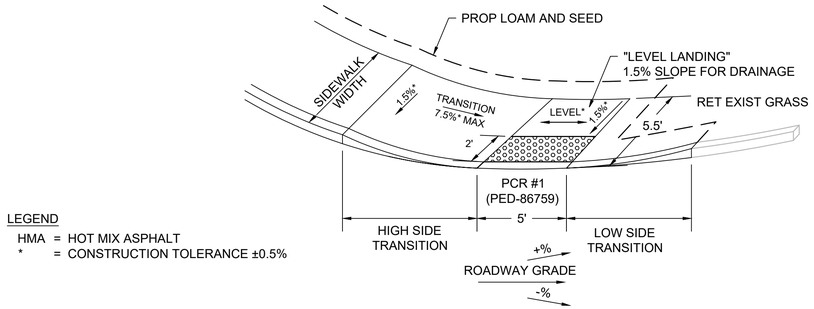


LEGEND
HMA = HOT MIX ASPHALT
* = CONSTRUCTION TOLERANCE ±0.5%
** = SEE E107.9.0 FOR TRANSITION LENGTH

SECTION A-A

DWY #	DRIVEWAY LOCATION		ROADWAY GUTTER SLOPE	SIDEWALK WIDTH	RAMP LENGTH	
	STREET ADDRESS	STATION LOCATION			SIDE A	SIDE B
5	333 MEMORIAL DRIVE	32+35.66, 45.05' RT	-2.02%	5'	11'	6.5'
6	333 MEMORIAL DRIVE	33+40.64, 45.30' RT	-2.34%	5'	11'	6.5'
7	345 MEMORIAL DRIVE	34+06.80, 45.13' RT	-2.22%	5'	11'	6.5'
8	345 MEMORIAL DRIVE	35+04.97, 45.14' RT	-2.44%	5'	11'	6.5'

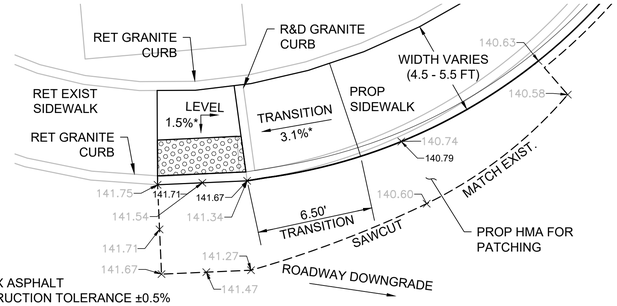
CONCRETE SIDEWALK THROUGH DRIVEWAYS WITH LANDSCAPING
NOT TO SCALE
E 107.8.1 - MODIFIED



LEGEND
HMA = HOT MIX ASPHALT
* = CONSTRUCTION TOLERANCE ±0.5%

PCR NO.	RAMP REFERENCE POINT		SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	RAMP ENTRANCE WIDTH	TRANSITION LENGTH	
	STREET LOCATION	STATION LOCATION				HIGH SIDE	LOW SIDE
1	91 JENNINGS STREET	24+60.13, 67.0' LT	5.5'	-0.47%	5'	7.67'	6.5'

PEDESTRIAN CURB RAMP 1
NOT TO SCALE



LEGEND
HMA = HOT MIX ASPHALT
* = CONSTRUCTION TOLERANCE ±0.5%

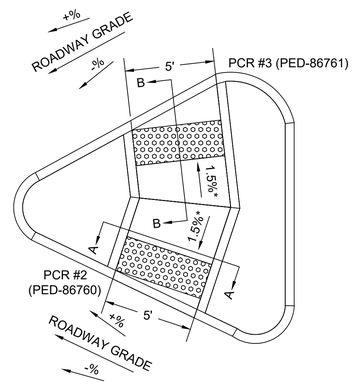
CHICOPEE-SOUTH HADLEY
ROUTE 33

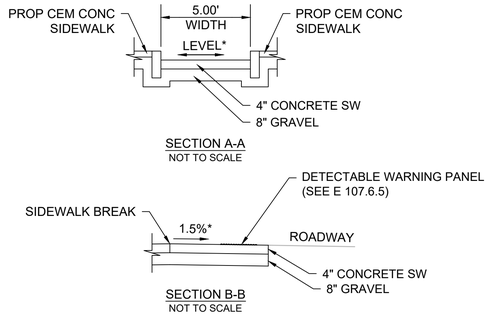
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	40	59
	PROJECT FILE NO. 612109		

CONSTRUCTION DETAILS

PCR NO.	RAMP REFERENCE POINT		SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	RAMP ENTRANCE WIDTH	TRANSITION LENGTH	
	STREET LOCATION	STATION LOCATION				HIGH SIDE	LOW SIDE
9	MEMORIAL DRIVE / MONTGOMERY STREET	12+08.84, 60.45' LT	4'-10"	8.20%	5'	EXIST.	6.5'

PEDESTRIAN CURB RAMP 9
1" = 4'

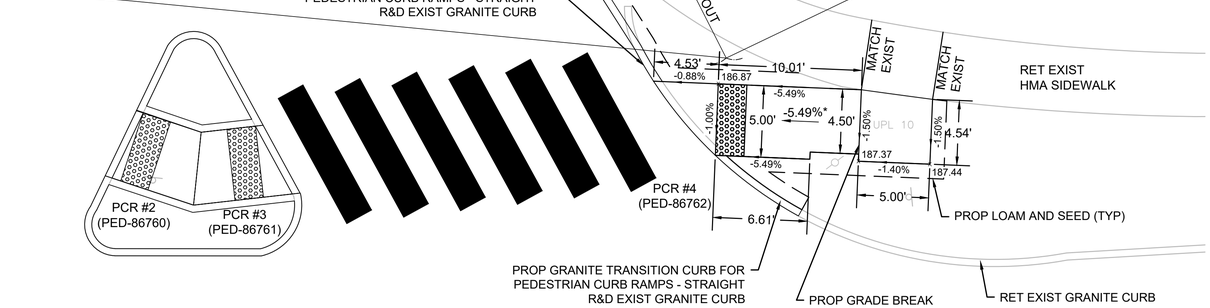




LEGEND
HMA = HOT MIX ASPHALT
* = CONSTRUCTION TOLERANCE ±0.5%

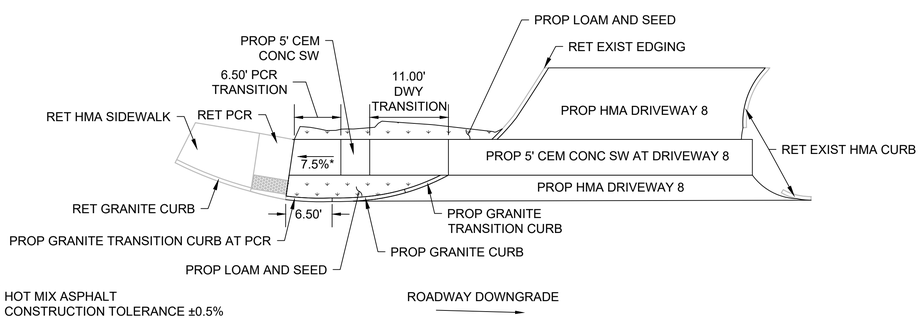
PCR NO.	RAMP REFERENCE POINT		SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	RAMP ENTRANCE WIDTH	TRANSITION LENGTH	
	STREET LOCATION	STATION LOCATION				HIGH SIDE	LOW SIDE
2	JENNINGS STREET INTERSECTION	24+88.93, 57.8' LT	5'	-0.67%	5'	N/A	N/A
3	JENNINGS STREET INTERSECTION	25+00.67, 56.4' LT	5'	0.05%	5'	N/A	N/A

PEDESTRIAN CURB RAMPS 2 AND 3
NOT TO SCALE



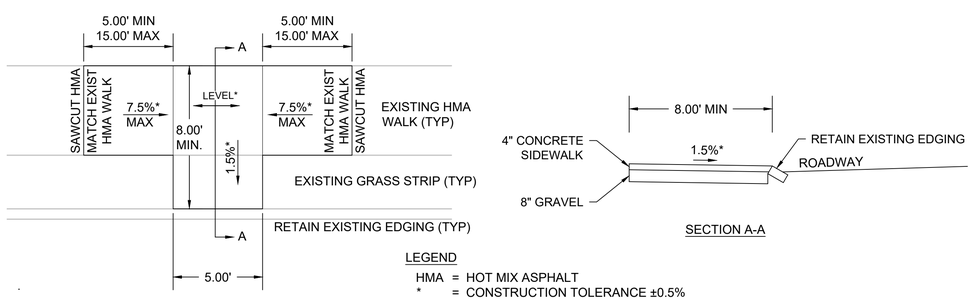
PCR NO.	RAMP REFERENCE POINT		SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	RAMP ENTRANCE WIDTH	TRANSITION LENGTH	
	STREET LOCATION	STATION LOCATION				HIGH SIDE	LOW SIDE
4	98 JENNINGS STREET	25+29.82, 58.6' LT	5'	0.06%	5'	7'-8"	6'-6"

PEDESTRIAN CURB RAMP 4
1" = 5'



LEGEND
HMA = HOT MIX ASPHALT
* = CONSTRUCTION TOLERANCE ±0.5%

TRANSITION TO EXISTING PEDESTRIAN CURB RAMP AT STA 35+50 NB
NOT TO SCALE



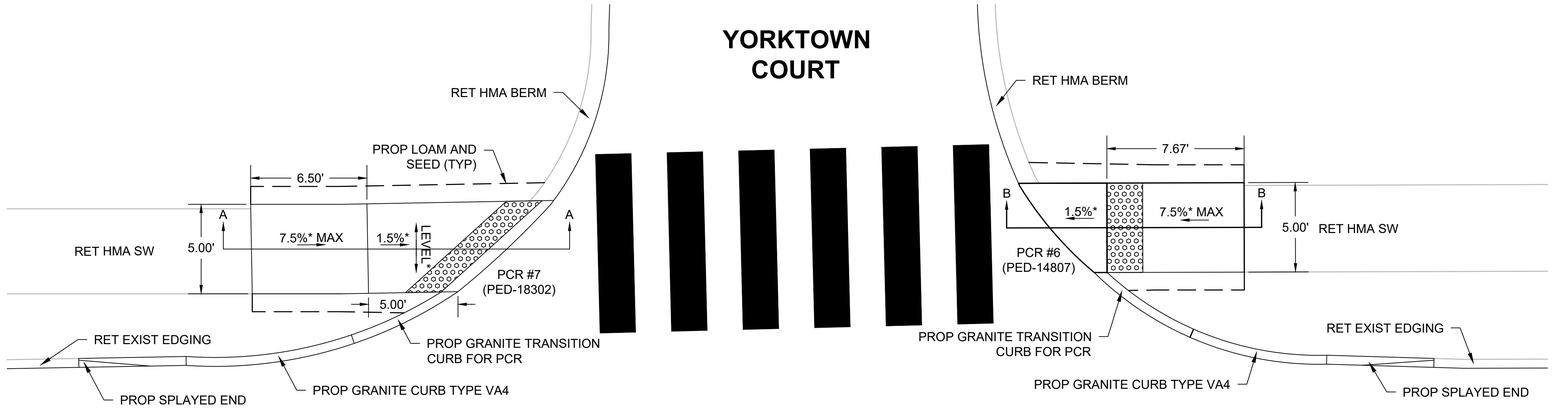
LEGEND
HMA = HOT MIX ASPHALT
* = CONSTRUCTION TOLERANCE ±0.5%

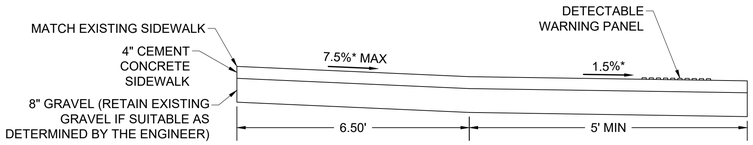
CEMENT CONCRETE SIDEWALKS AT BUS STOPS
NOT TO SCALE

CHICOPEE-SOUTH HADLEY
ROUTE 33

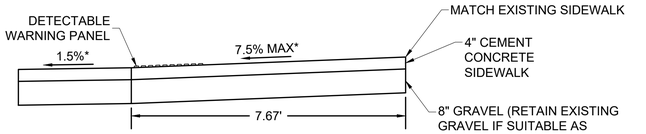
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	41	59
	PROJECT FILE NO. 612109		

CONSTRUCTION DETAILS





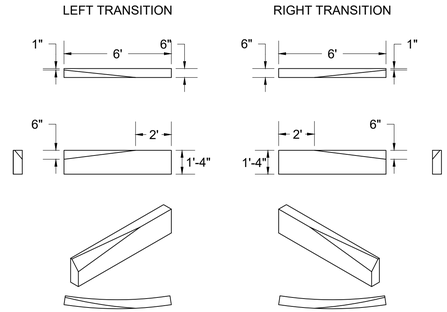
SECTION VIEW A-A
NOT TO SCALE



SECTION VIEW B-B
NOT TO SCALE

PCR NO.	RAMP REFERENCE POINT		SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	RAMP ENTRANCE WIDTH	TRANSITION LENGTH	
	STREET LOCATION	STATION LOCATION				HIGH SIDE	LOW SIDE
6	YORKTOWN ST	194+85, RT	5'	0.5%	5'	7.76'	NONE
7	YORKTOWN ST	195+15, RT	5'	0.5%	5'	NONE	6.50'

PEDESTRIAN CURB RAMPS 6 AND 7
NOT TO SCALE



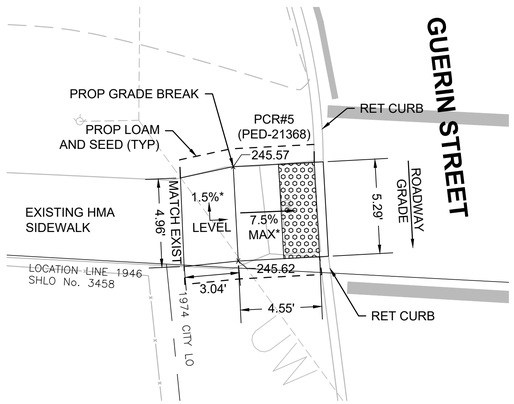
LEFT TRANSITION - CURVED

RIGHT TRANSITION - CURVED

NOTES:

1. LENGTH DIMENSIONS (6' OR 2') SHALL HAVE A TOLERANCE OF ±1".
2. ALL OTHER DIMENSIONS SHALL HAVE A TOLERANCE OF ±½"

GRANITE CURB - SPLAYED END DETAIL
NOT TO SCALE

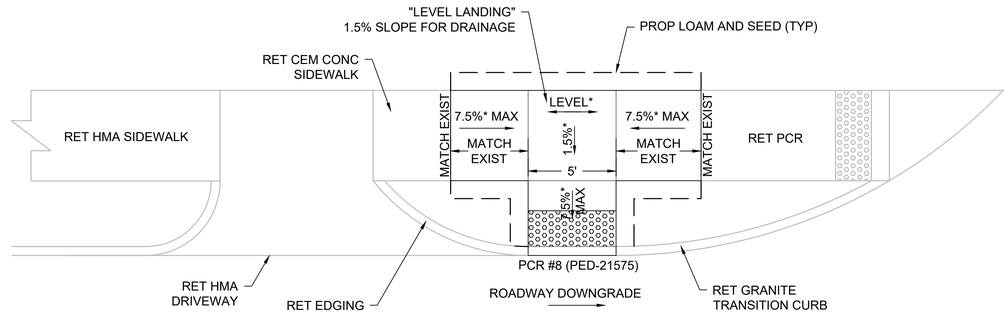


LEGEND

HMA = HOT MIX ASPHALT
* = CONSTRUCTION TOLERANCE ±0.5%

PCR NO.	RAMP REFERENCE POINT		SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	RAMP ENTRANCE WIDTH	TRANSITION LENGTH	
	STREET LOCATION	STATION LOCATION				HIGH SIDE	LOW SIDE
5	1765 MEMORIAL DRIVE	177+13.94, 73.82' RT	4.96'	-1.17%	5.29'	-	-

PEDESTRIAN CURB RAMP 5
1" = 4'



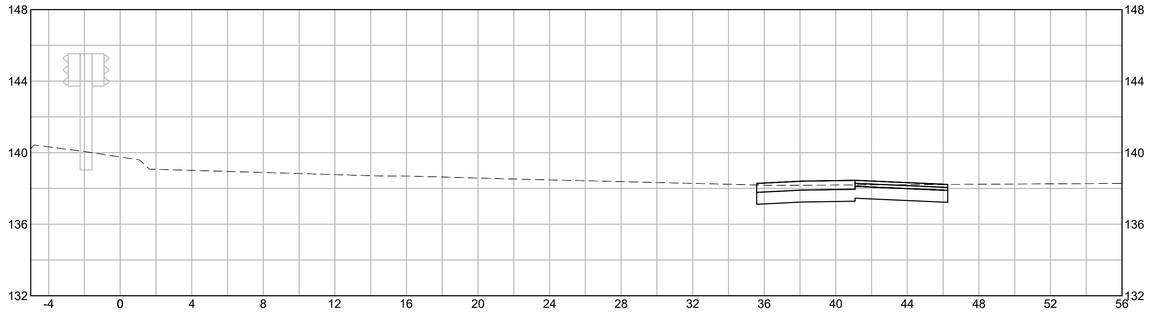
PCR NO.	RAMP REFERENCE POINT		SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	RAMP ENTRANCE WIDTH	TRANSITION LENGTH	
	STREET LOCATION	STATION LOCATION				HIGH SIDE	LOW SIDE
8	ABBEY ST	5+50, LT	5'	1.7%	5'	NONE	NONE

PEDESTRIAN CURB RAMP 8
NOT TO SCALE

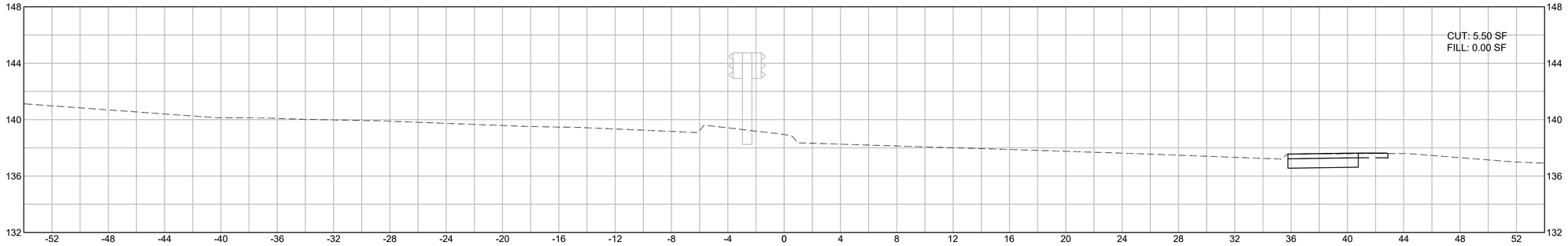
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	42	59
PROJECT FILE NO.	612109		

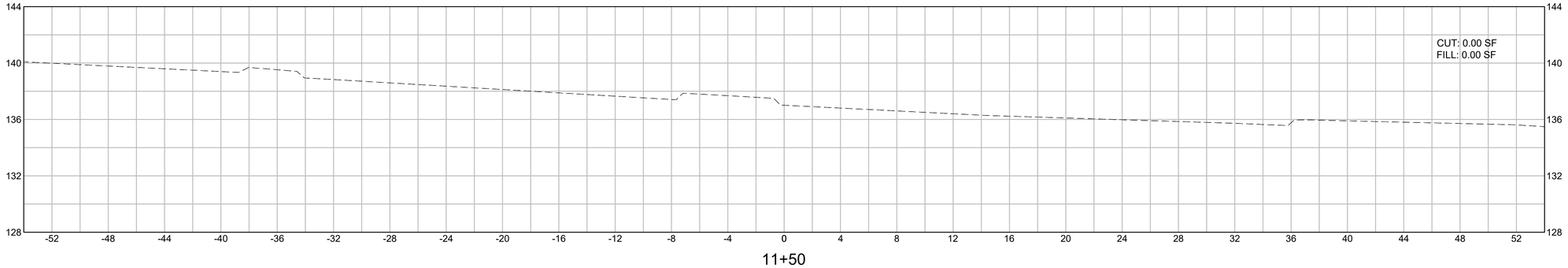
CROSS SECTIONS



12+25



12+00



11+50

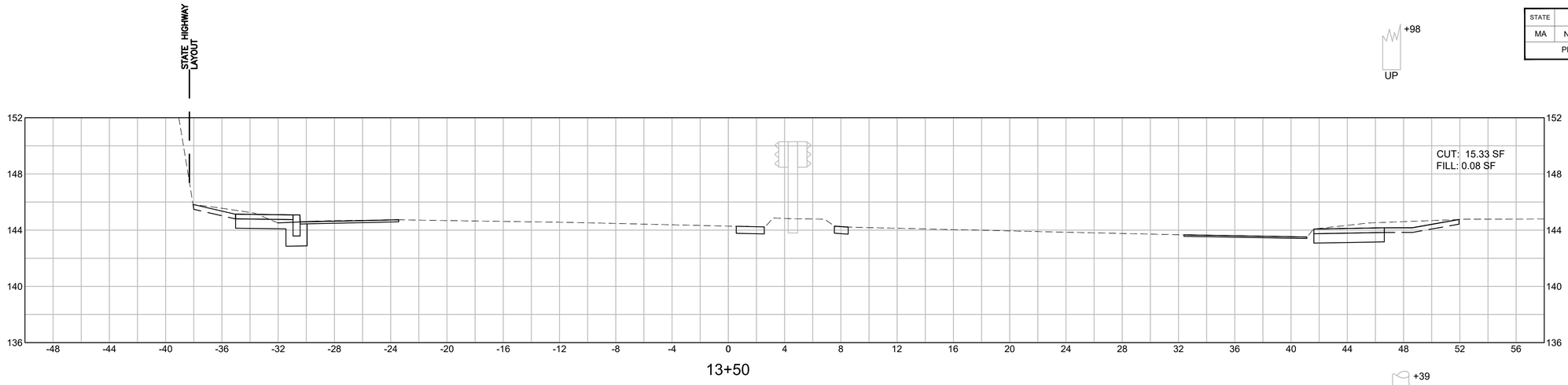
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

612109-HD-7-CROSS SECTIONS.DWG Plotted on 25-Jun-2025 1:32 PM

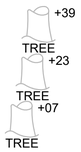
CHICOPEE-SOUTH HADLEY
ROUTE 33

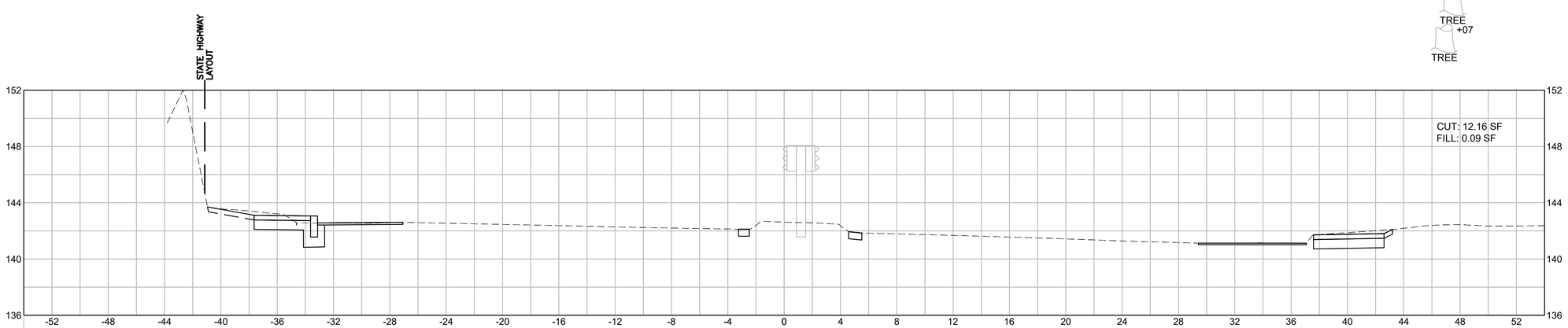
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	43	59
	PROJECT FILE NO. 612109		

CROSS SECTIONS

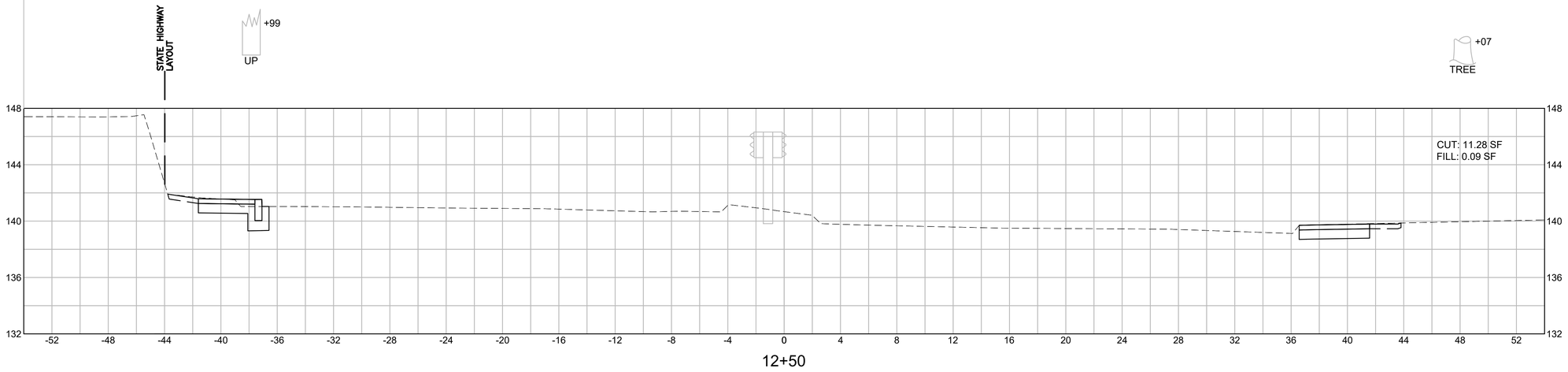


13+50





13+00



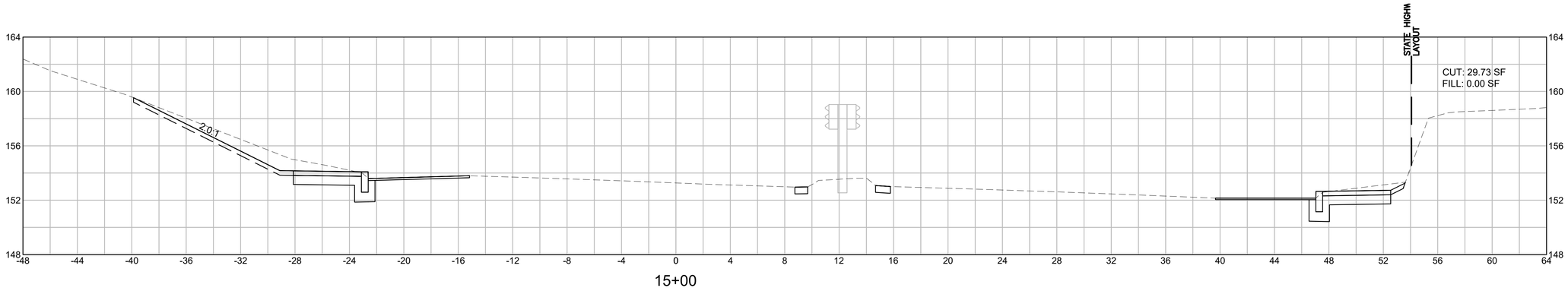
12+50

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

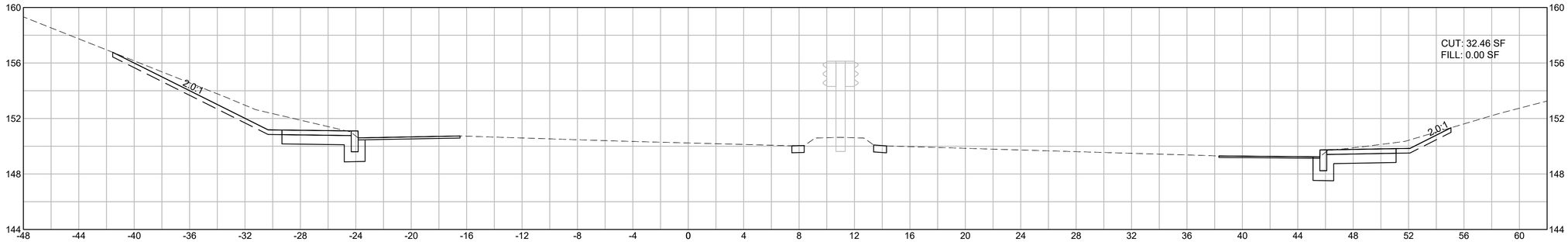
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	44	59
PROJECT FILE NO.	612109		

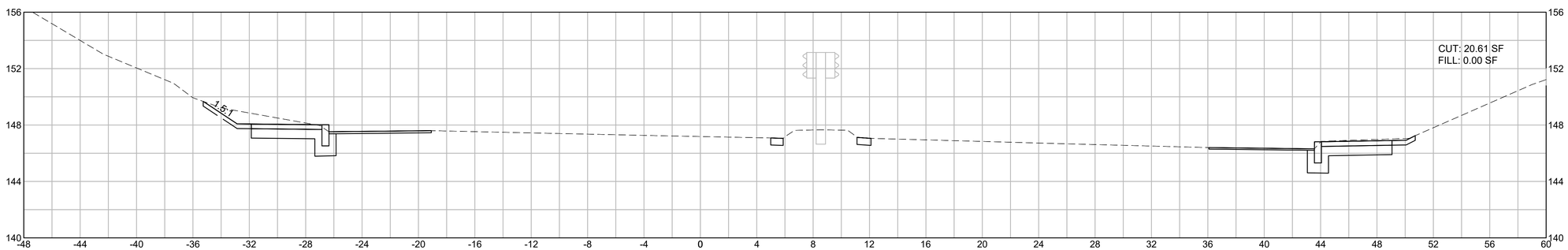
CROSS SECTIONS



15+00



14+50



14+00

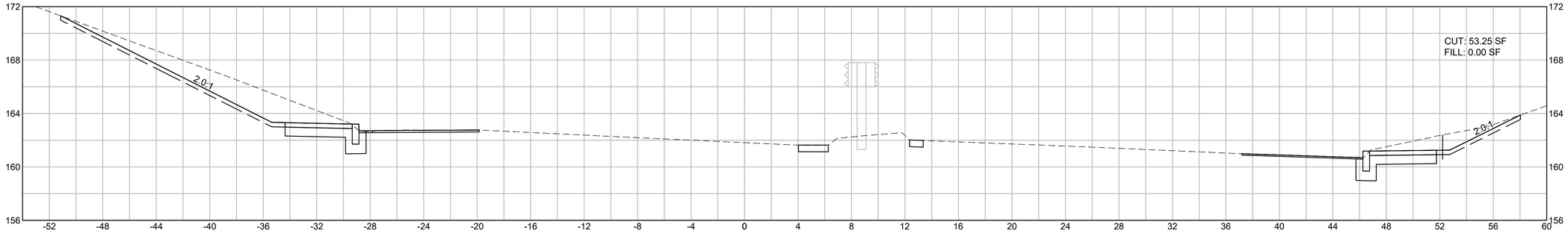
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

612109-HD-7-CROSS SECTIONS.DWG Plotted on 25-Jun-2025 1:32 PM

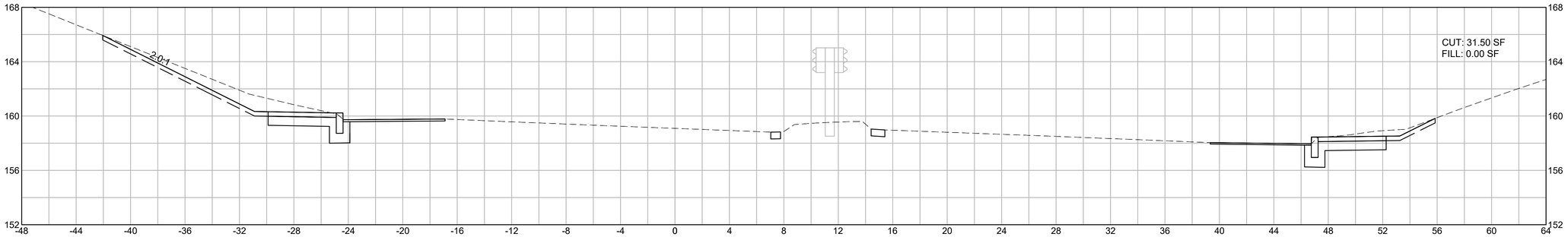
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	45	59
PROJECT FILE NO.	612109		

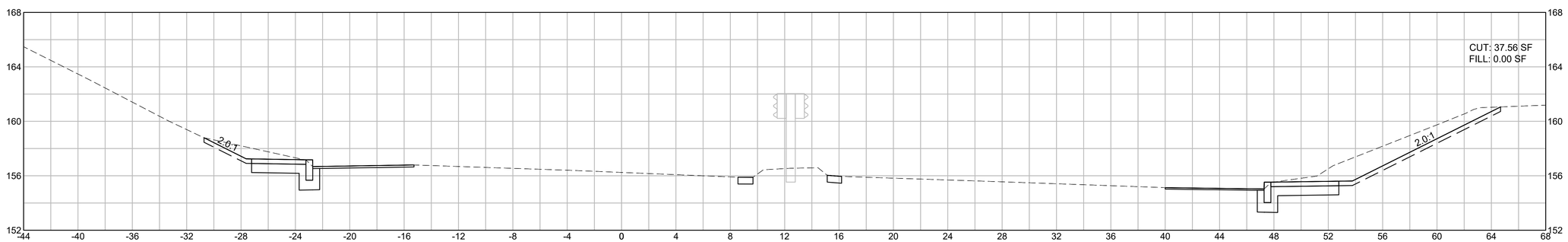
CROSS SECTIONS



16+50



16+00



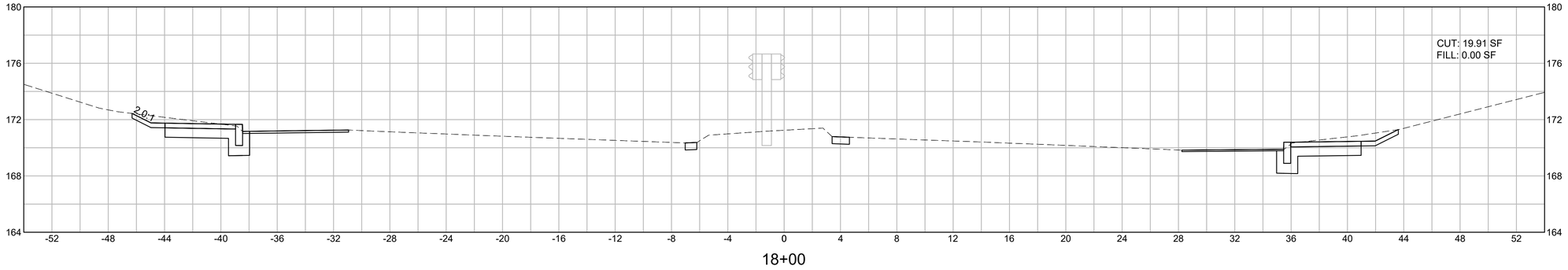
15+50

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

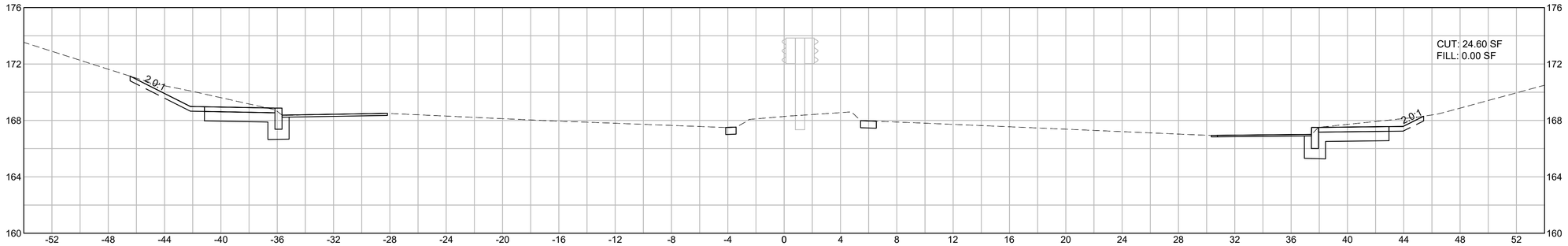
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	46	59
	PROJECT FILE NO. 612109		

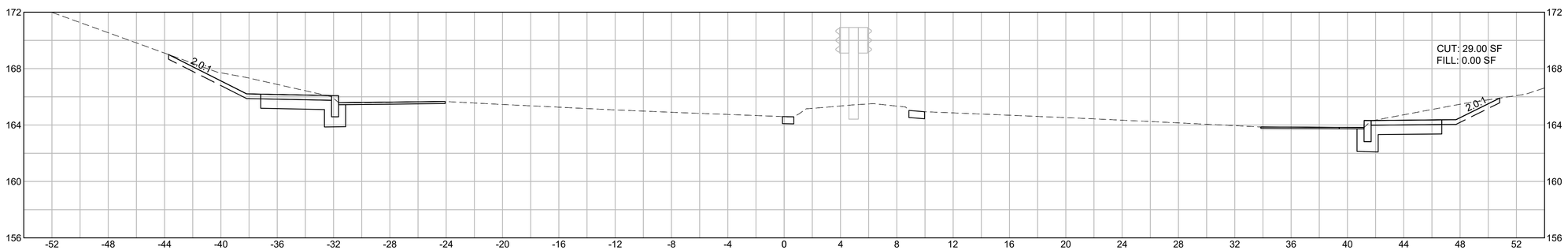
CROSS SECTIONS



18+00



17+50



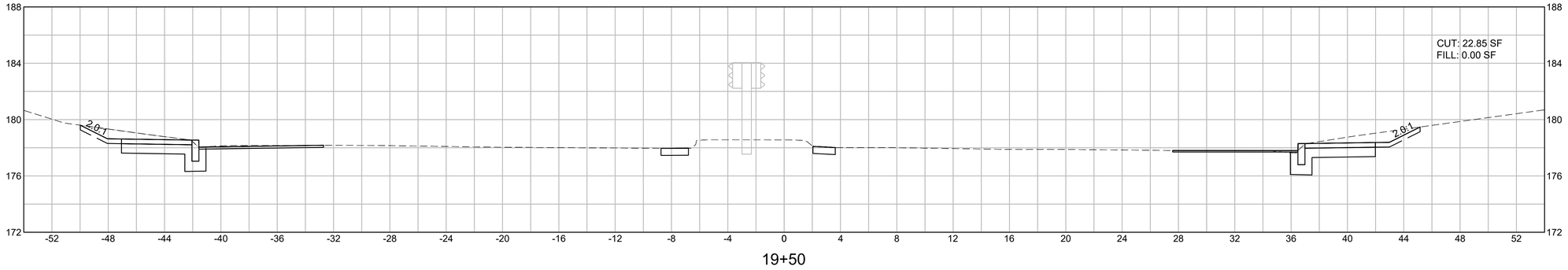
17+00

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

CHICOPEE-SOUTH HADLEY
ROUTE 33

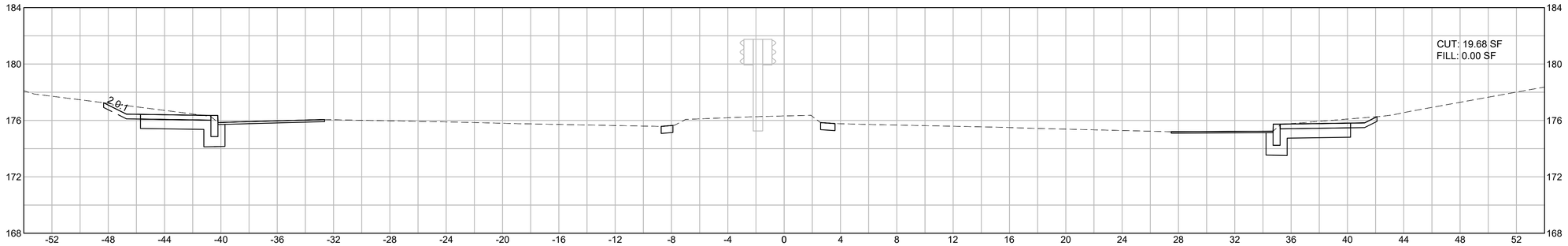
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	47	59
PROJECT FILE NO.	612109		

CROSS SECTIONS

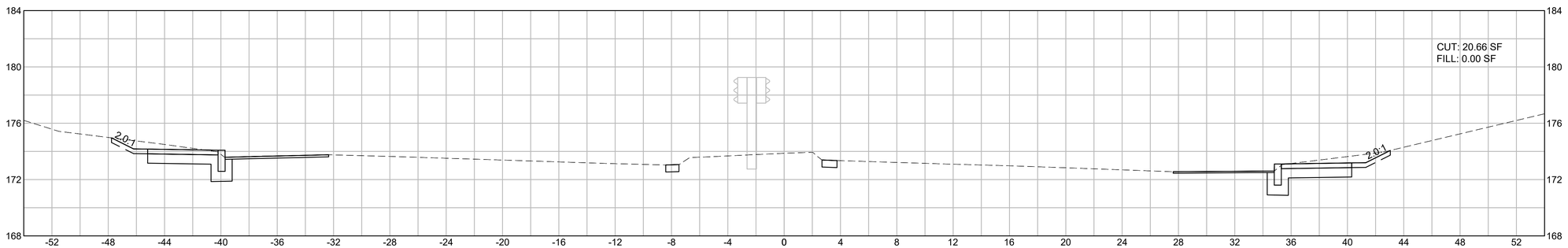


19+50

+24
UP



19+00



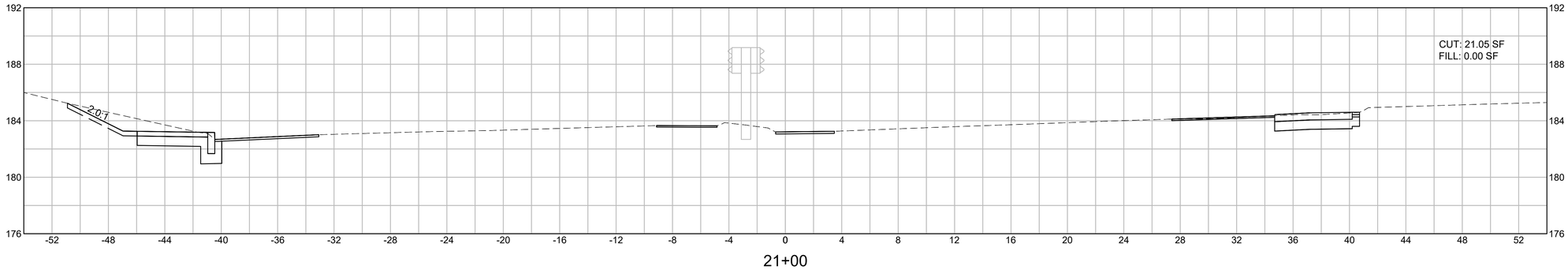
18+50

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

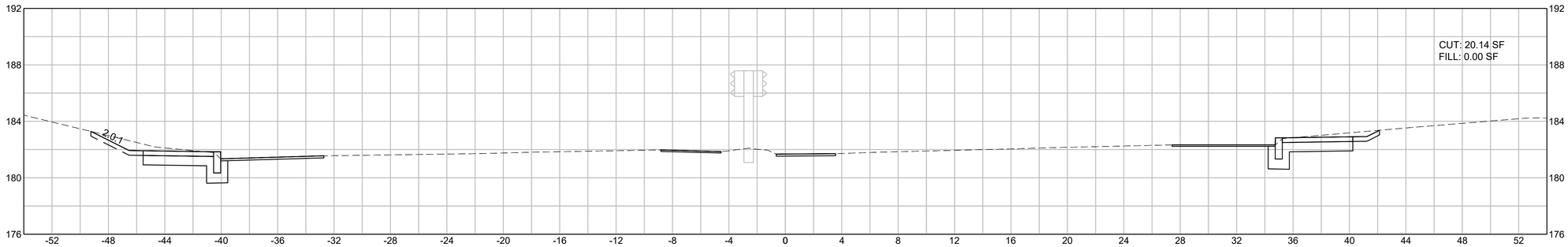
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	48	59
	PROJECT FILE NO. 612109		

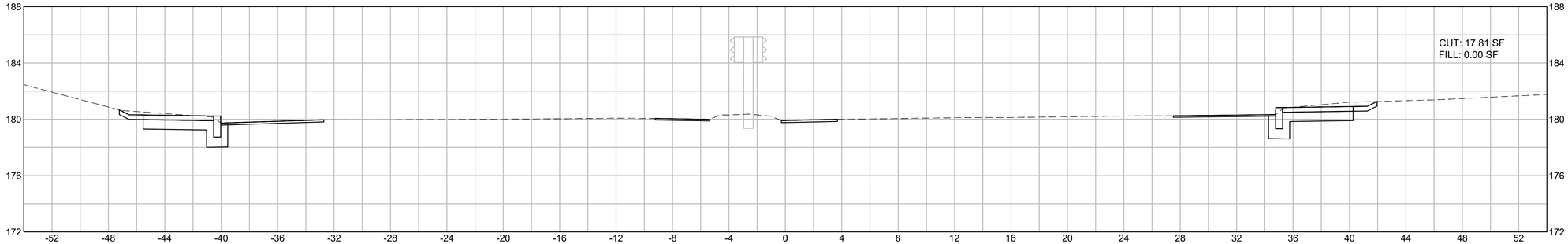
CROSS SECTIONS



21+00



20+50



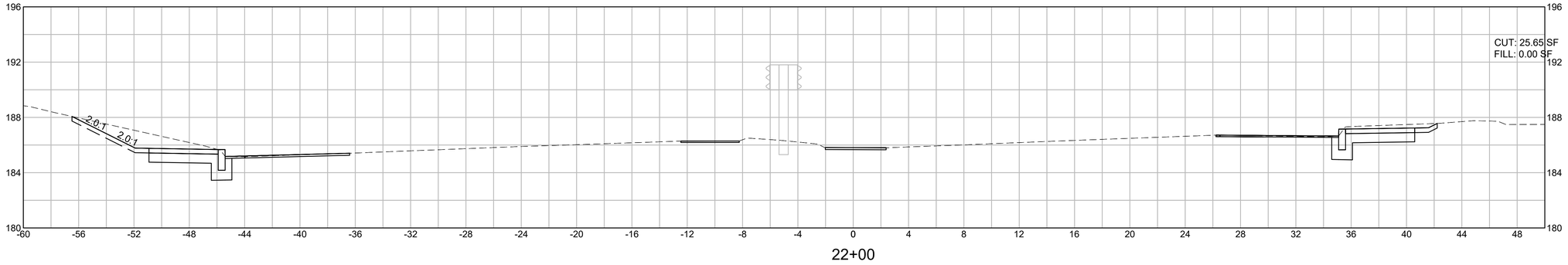
20+00

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

CHICOPEE-SOUTH HADLEY
ROUTE 33

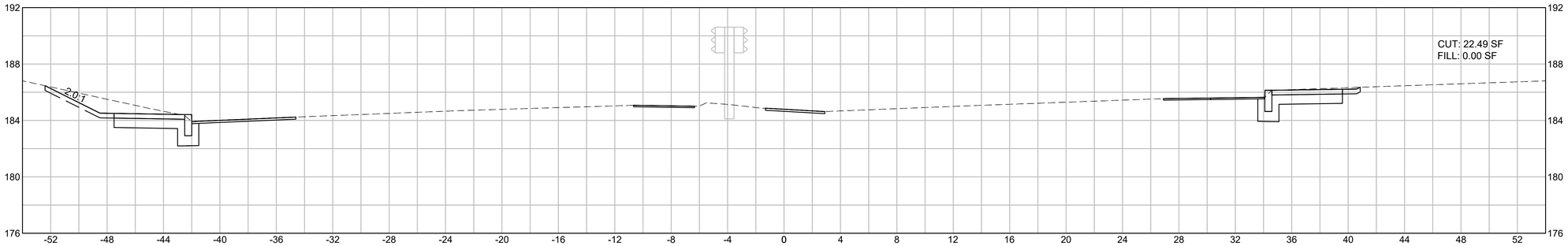
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	49	59
	PROJECT FILE NO. 612109		

CROSS SECTIONS

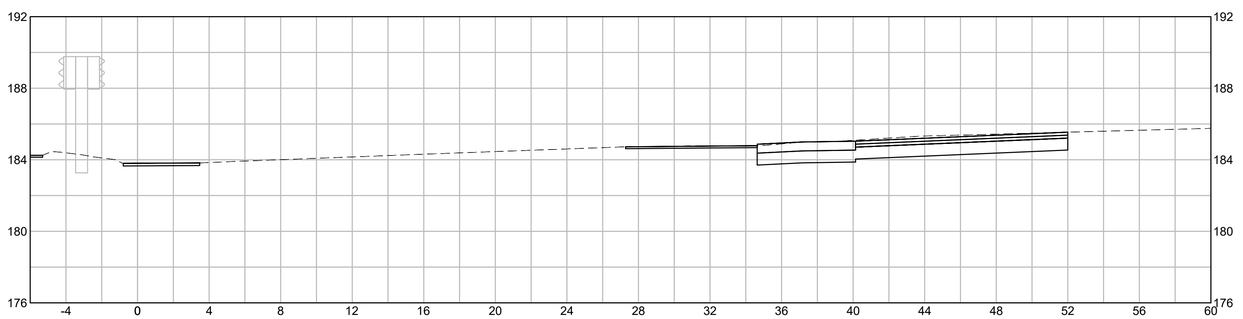


22+00

+84
UP



21+50



21+20

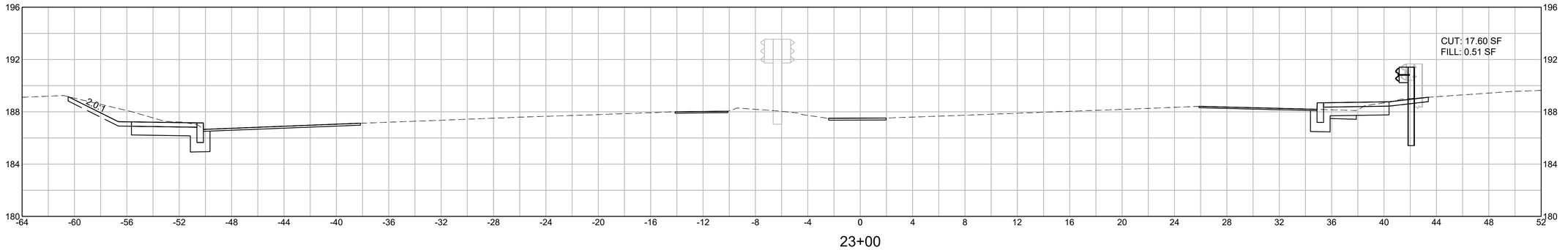
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

612109-HD-7-CROSS SECTIONS.DWG Plotted on 25-Jun-2025 1:33 PM

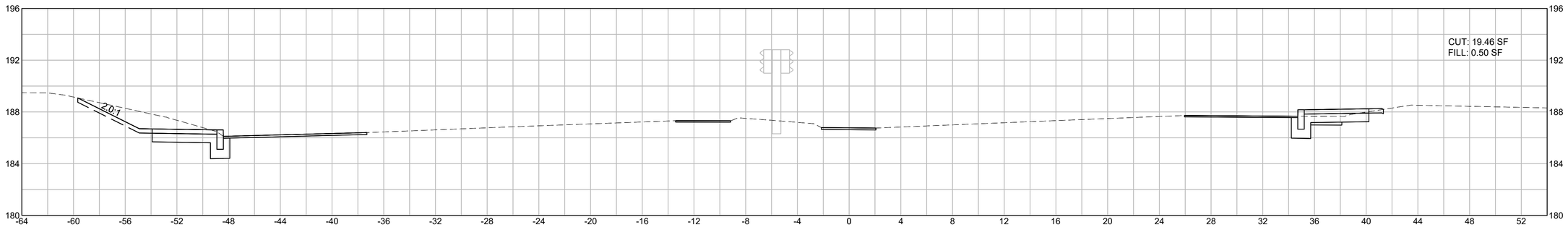
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	50	59
PROJECT FILE NO.	612109		

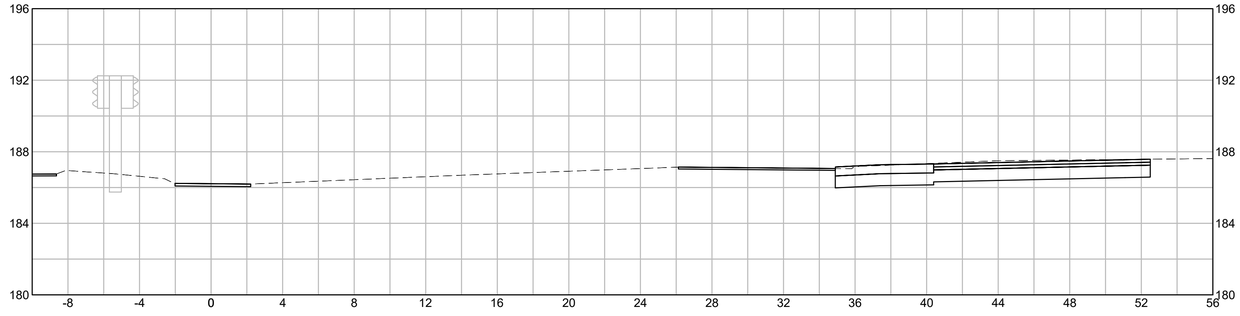
CROSS SECTIONS



23+00



22+50



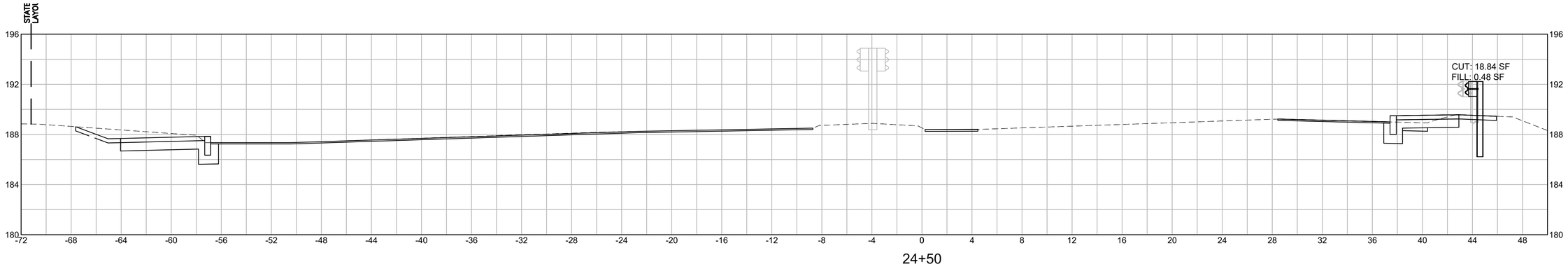
22+20

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

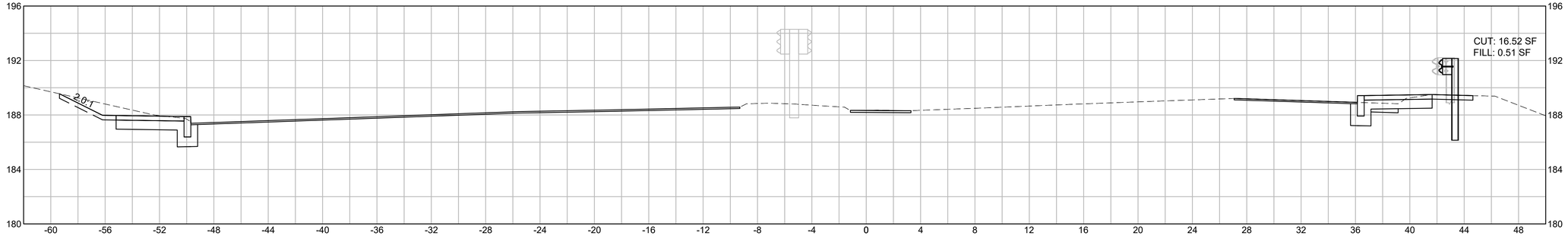
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	51	59
PROJECT FILE NO.	612109		

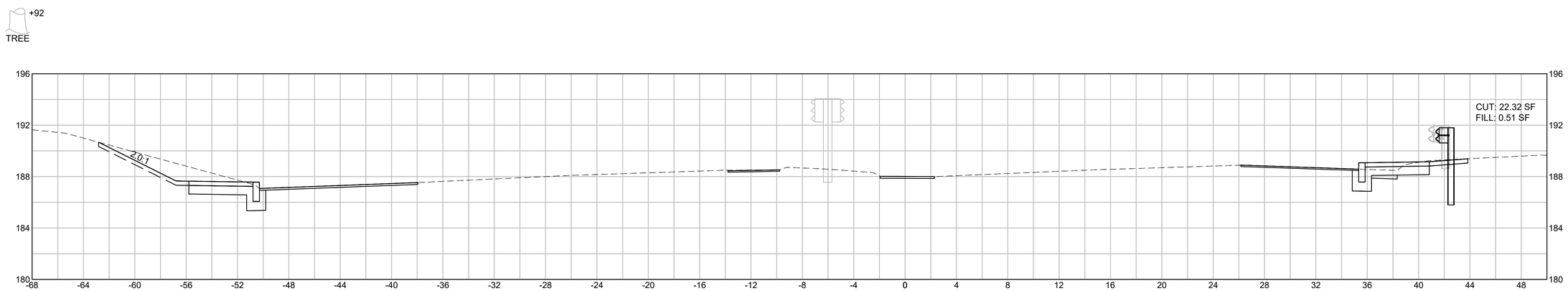
CROSS SECTIONS



24+50



24+00



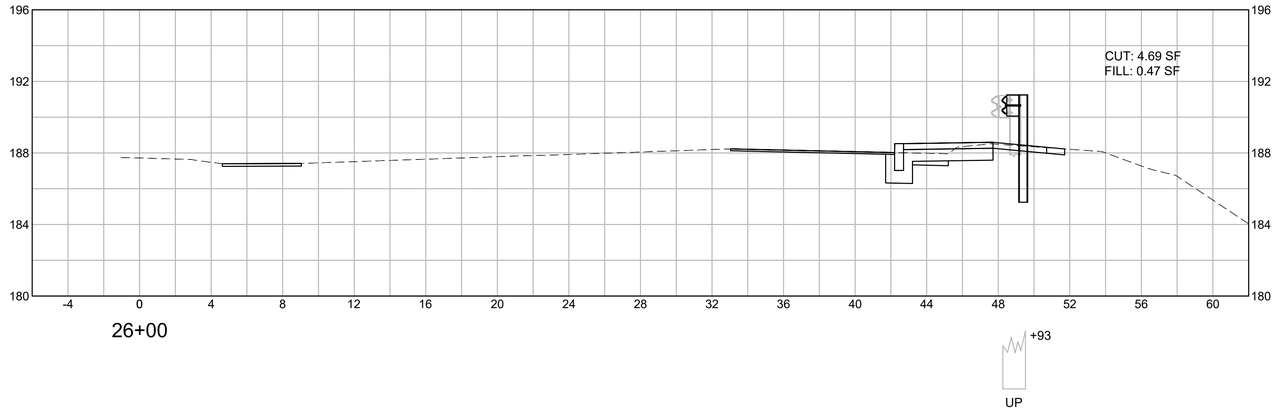
23+50

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

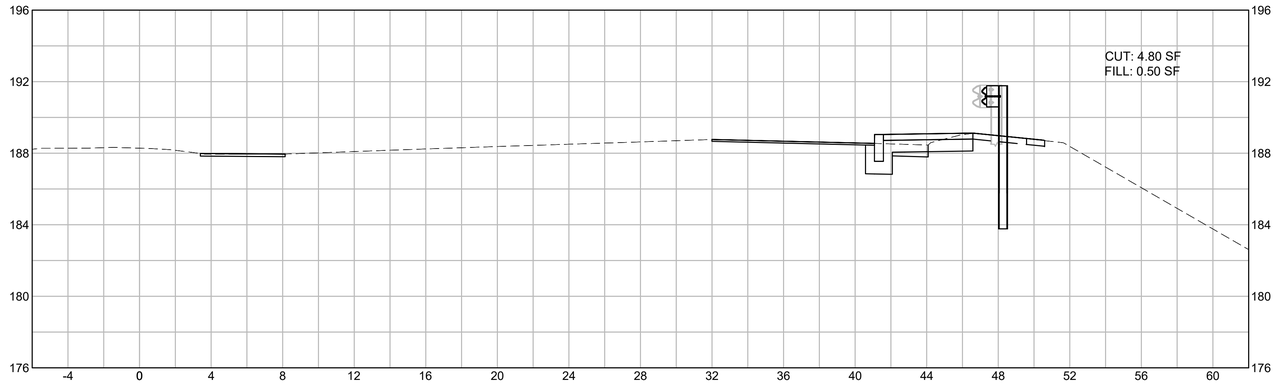
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	52	59
PROJECT FILE NO.	612109		

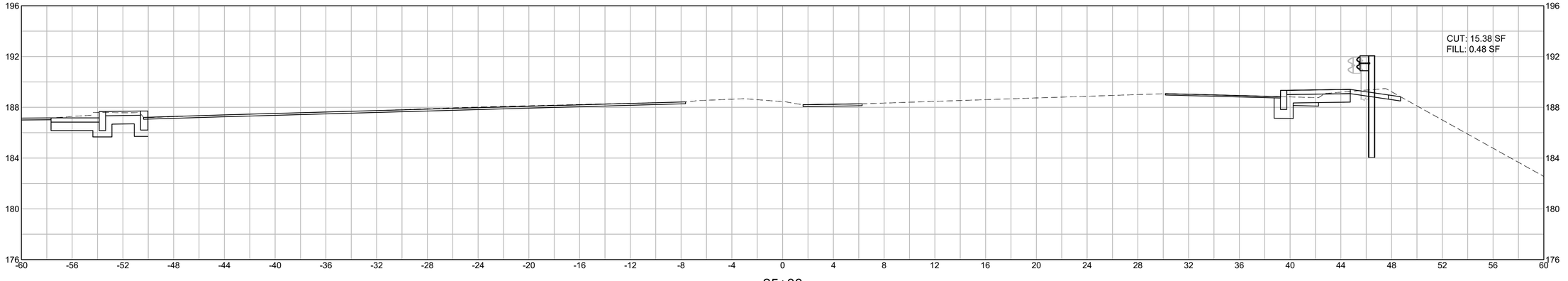
CROSS SECTIONS



26+00



25+50



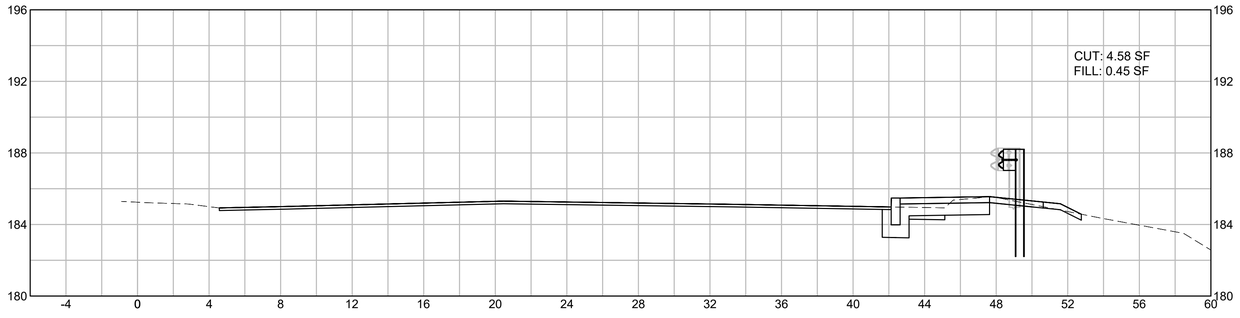
25+00

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

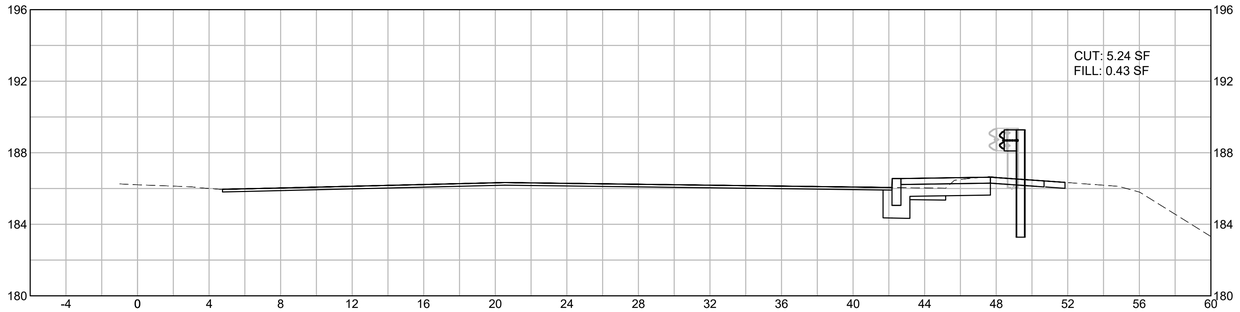
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	53	59
	PROJECT FILE NO. 612109		

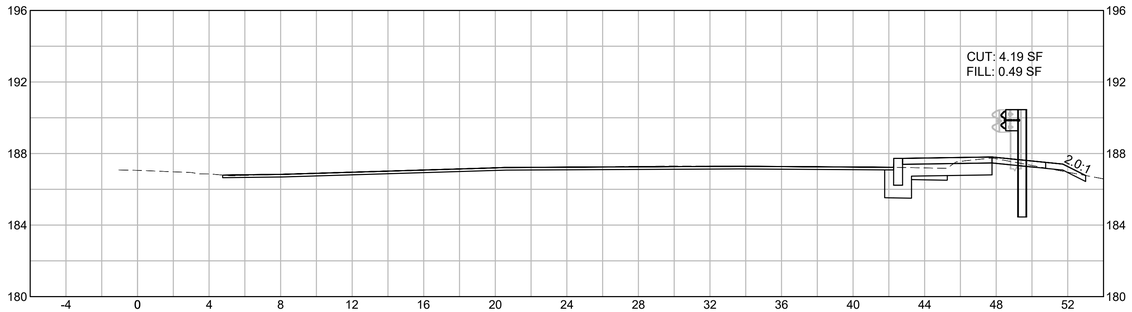
CROSS SECTIONS



27+50



27+00



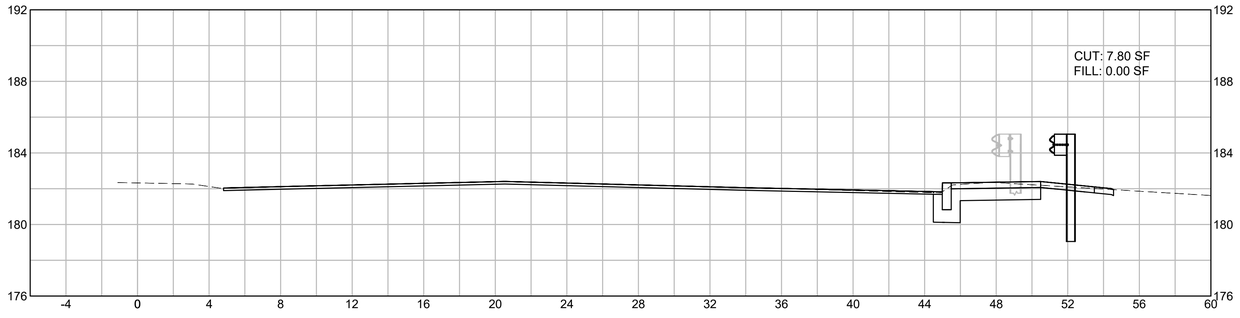
26+50

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

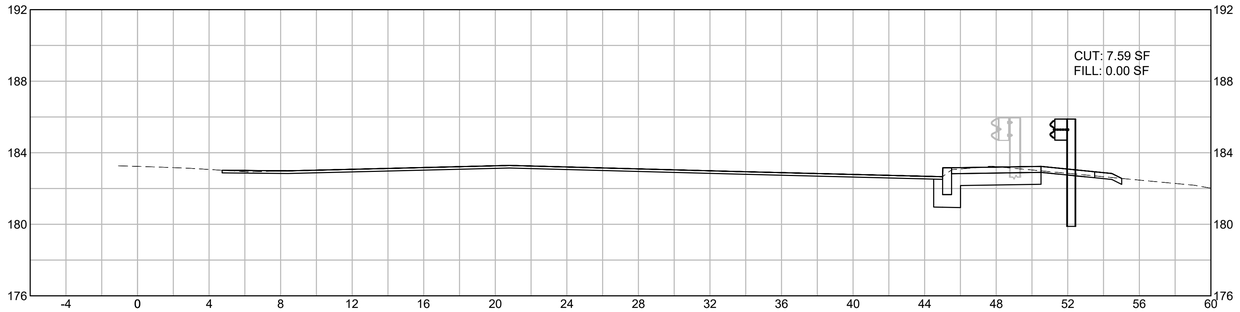
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	54	59
	PROJECT FILE NO. 612109		

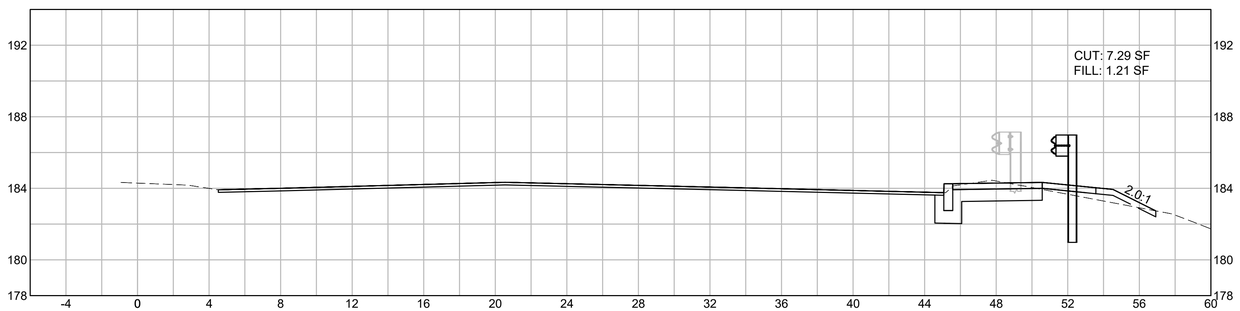
CROSS SECTIONS



29+00



28+50



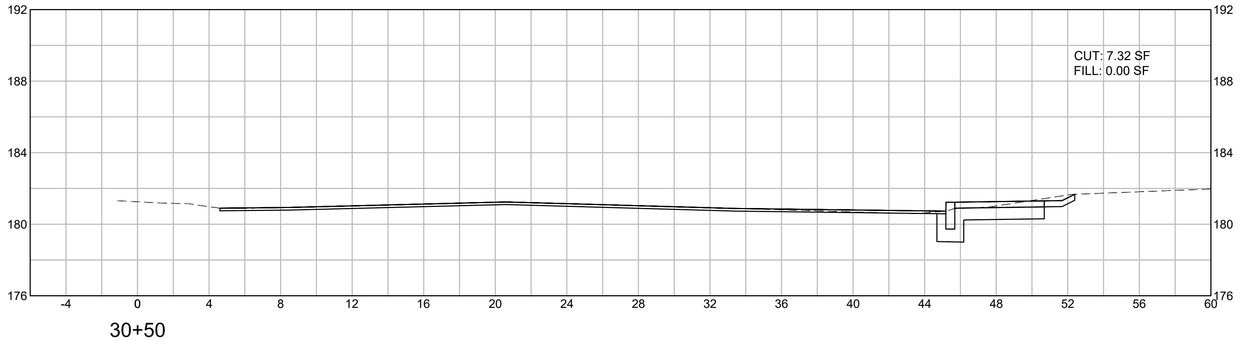
28+00

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

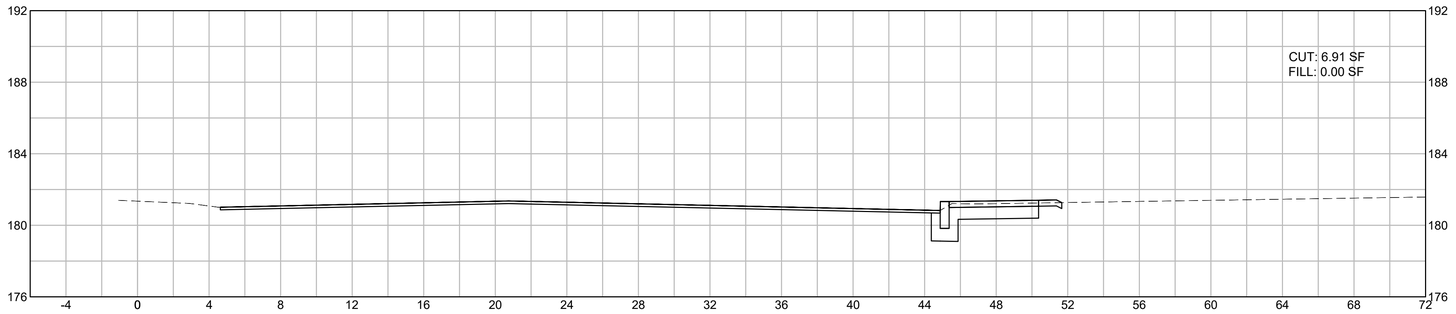
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	55	59
	PROJECT FILE NO. 612109		

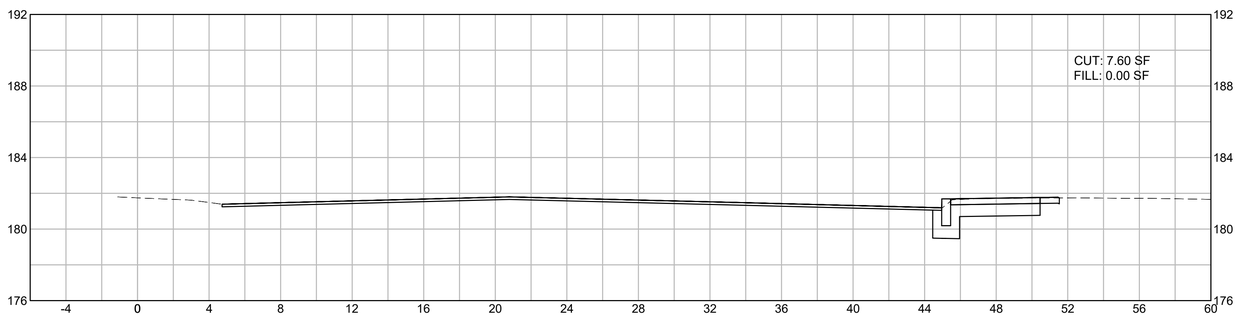
CROSS SECTIONS



30+50



30+00



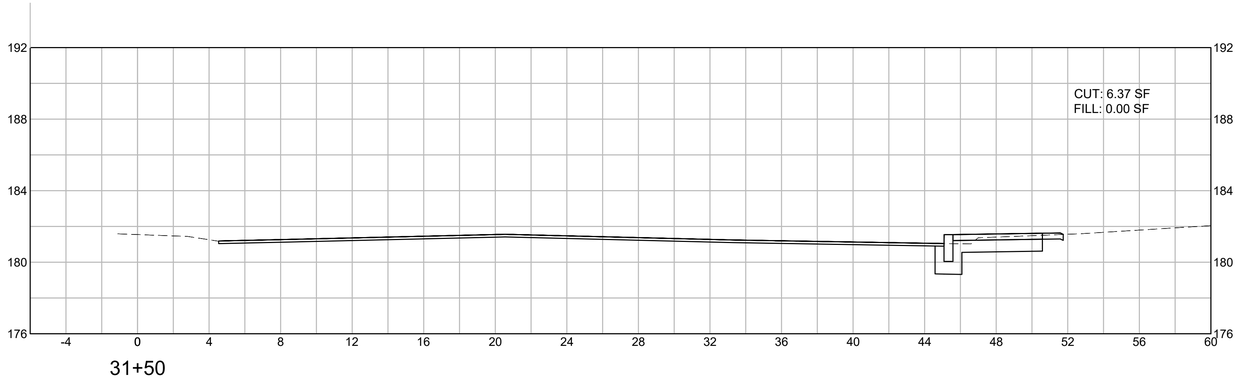
29+50

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

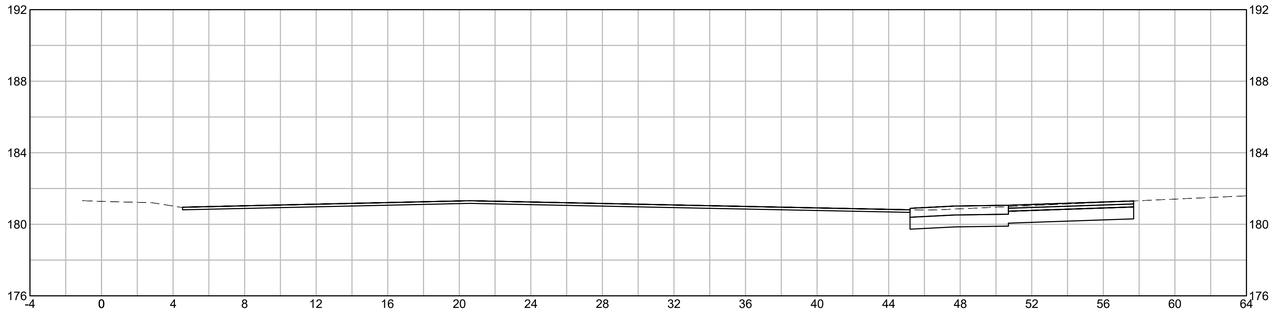
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	56	59
	PROJECT FILE NO. 612109		

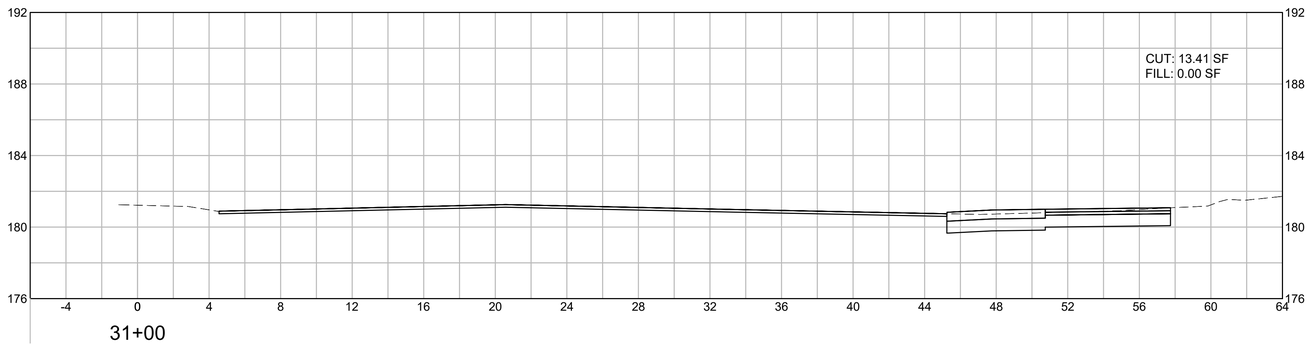
CROSS SECTIONS



31+50



31+15



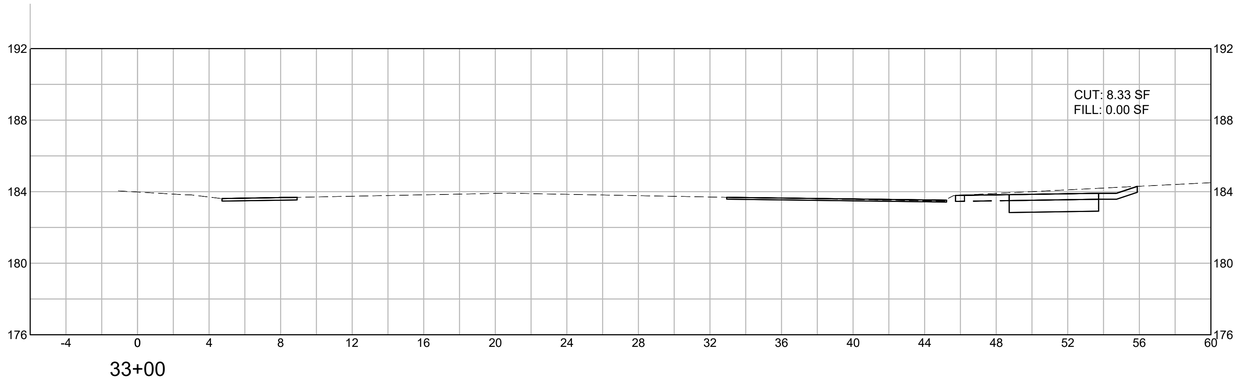
31+00

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

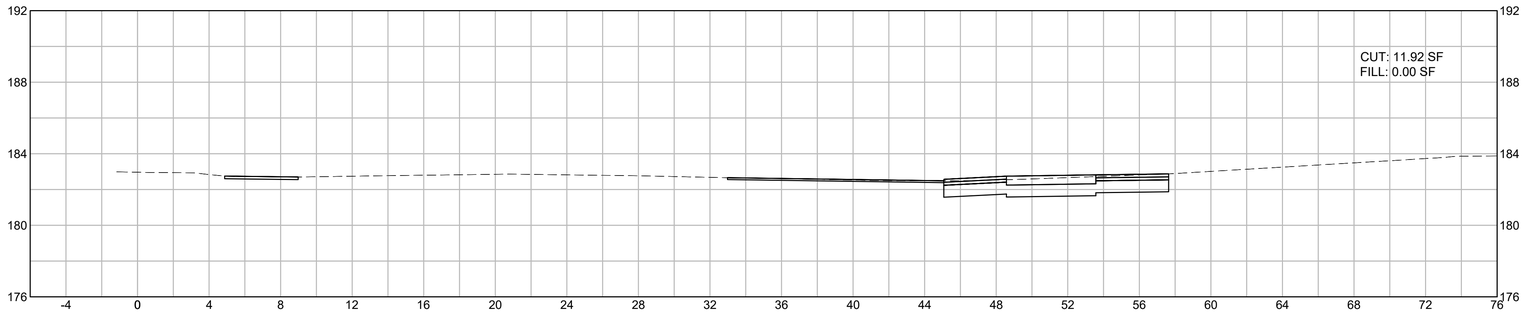
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	57	59
PROJECT FILE NO.	612109		

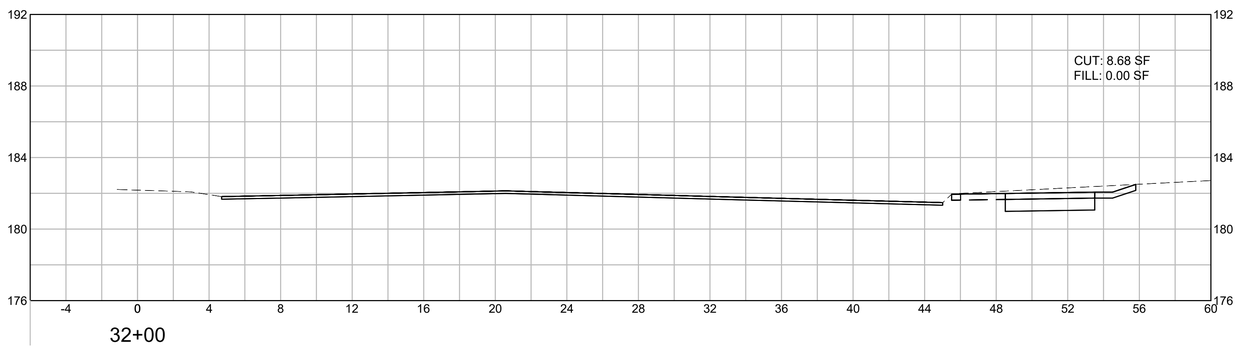
CROSS SECTIONS



33+00



32+50



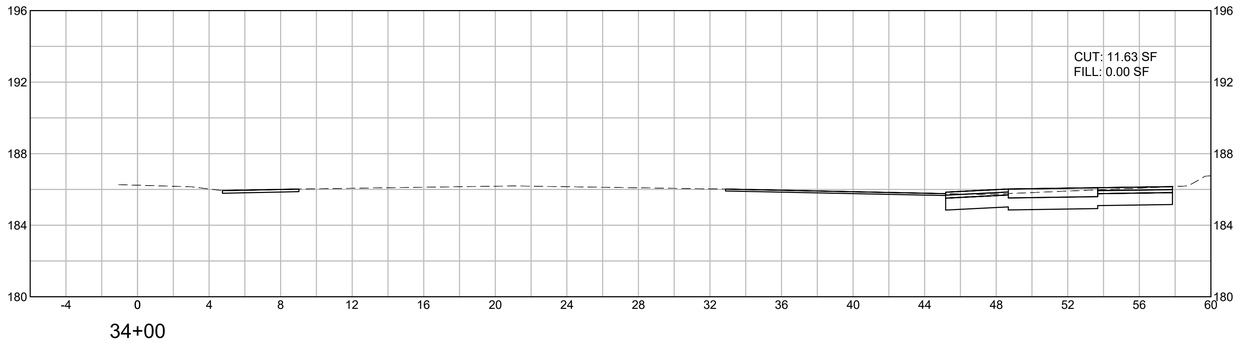
32+00

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

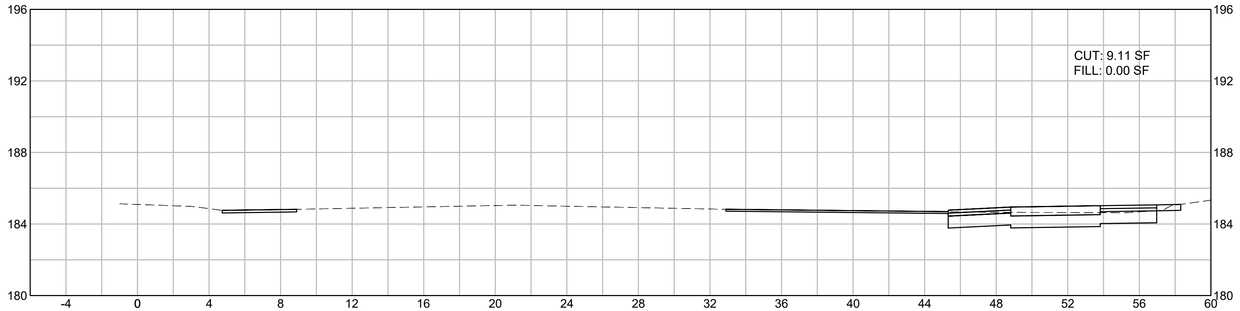
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	58	59
	PROJECT FILE NO. 612109		

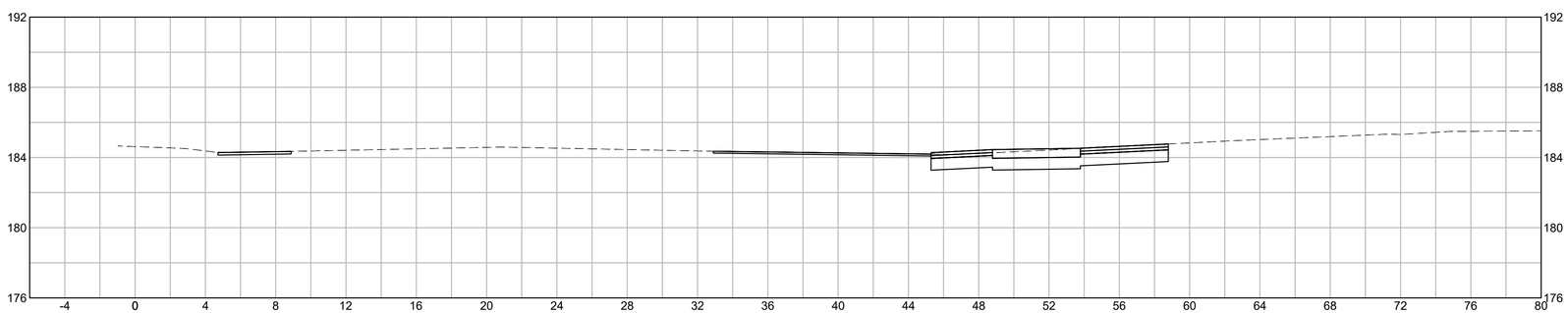
CROSS SECTIONS



34+00



33+50



33+30

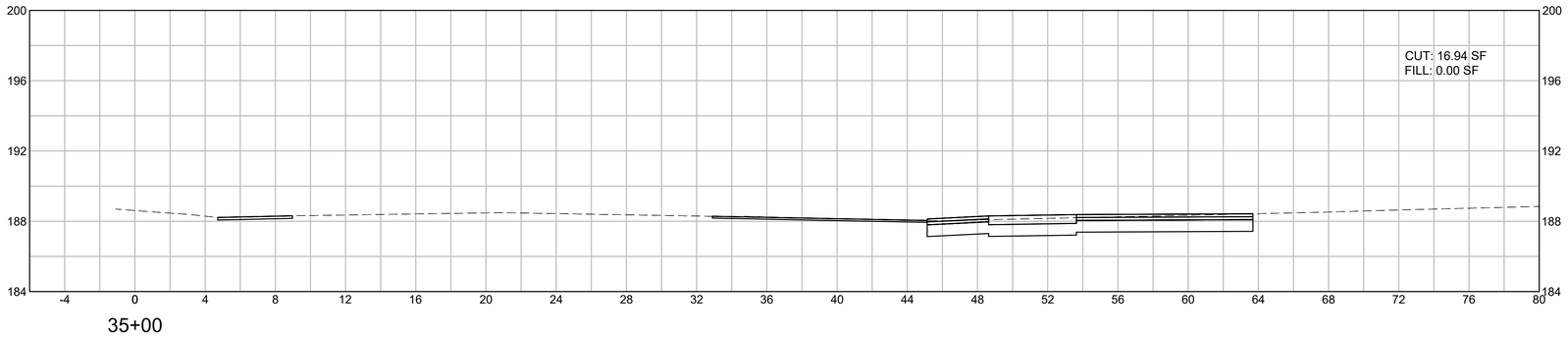
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

612109-HD-7-CROSS SECTIONS.DWG Plotted on 25-Jun-2025 1:34 PM

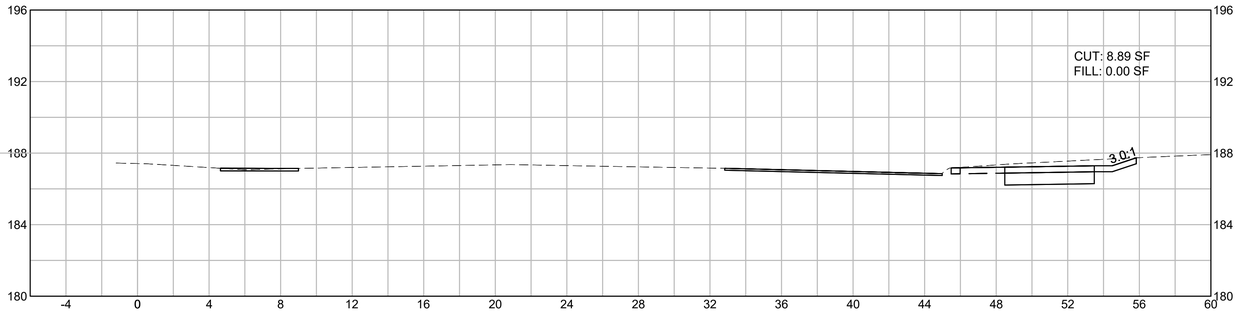
CHICOPEE-SOUTH HADLEY
ROUTE 33

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NHP(NHS)-0032(048)X	59	59
PROJECT FILE NO.	612109		

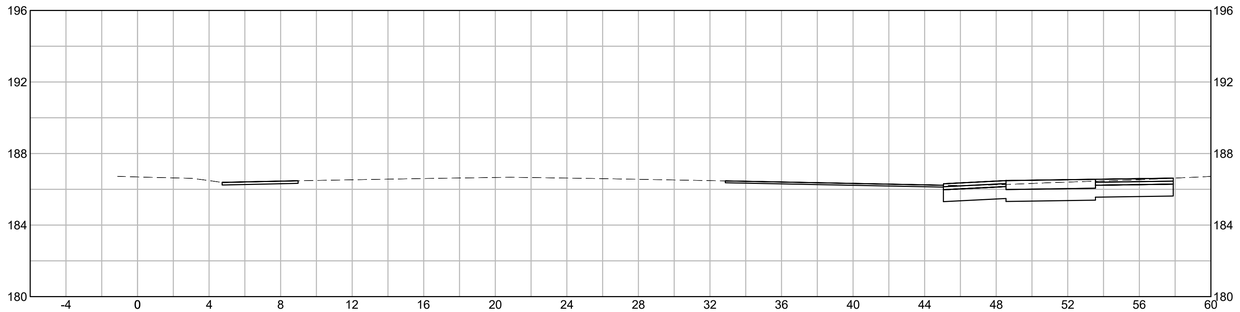
CROSS SECTIONS



35+00



34+50



34+20

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