

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION

WELLESLEY CEDAR STREET OVER ROUTE 9			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	1	72
PROJECT FILE NO. 604007			
TITLE SHEET AND INDEX			

PLAN AND PROFILE OF CEDAR STREET (BRIDGE NO. W-13-015)

IN THE TOWN OF WELLESLEY NORFOLK COUNTY

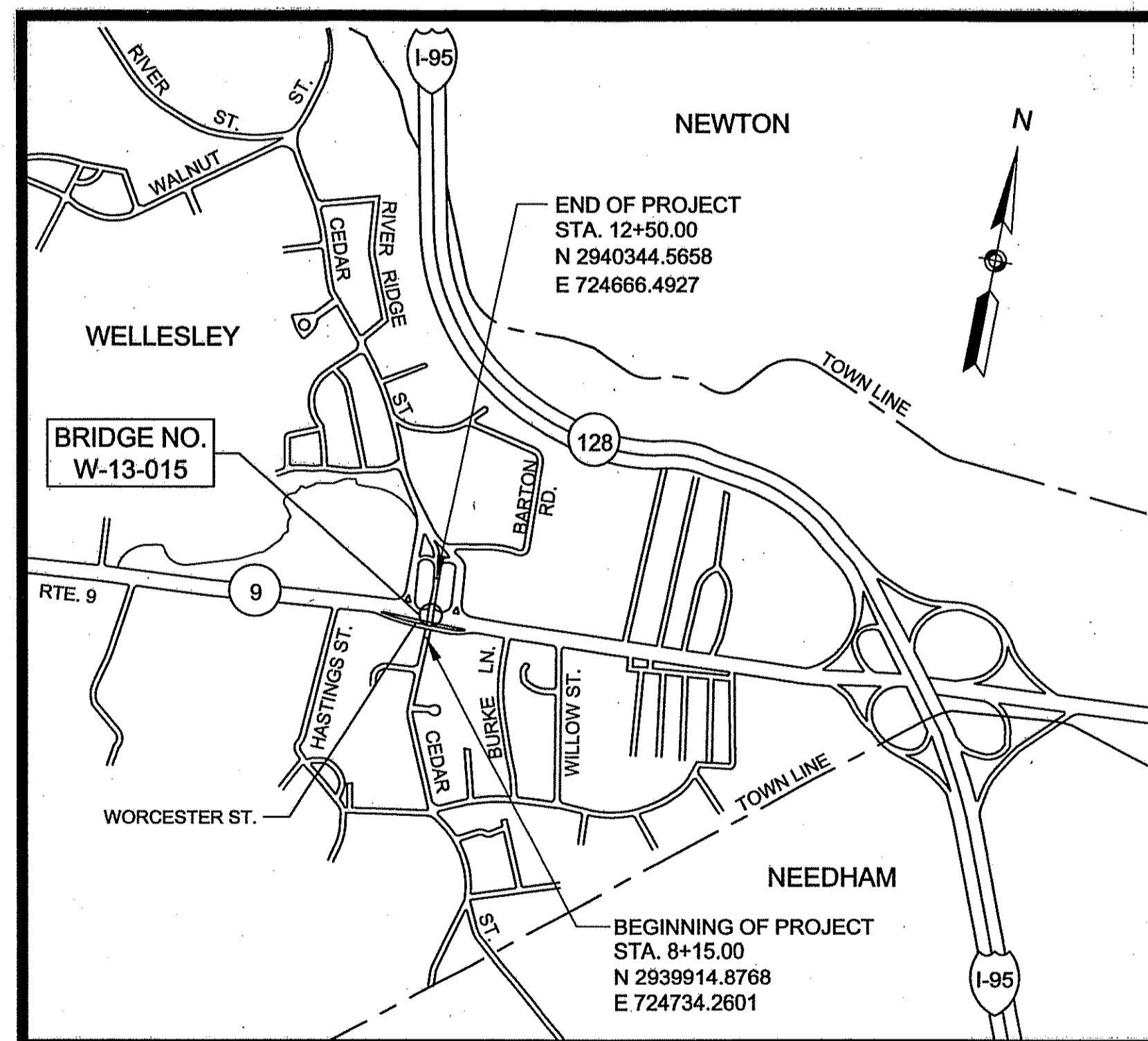
FEDERAL AID PROJECT NO. NFA

ISSUED FOR CONSTRUCTION

JUNE 20, 2011

THE 1988 STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES;
THE SUPPLEMENTAL SPECIFICATIONS DATED FEBRUARY 25, 2010;
THE STANDARD SPECIAL PROVISIONS DATED FEBRUARY 11, 2011;
THE 2010 CONSTRUCTION STANDARDS DETAILS;
THE 2003 EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD);
THE MASSACHUSETTS AMENDMENTS TO THE 2003 MUTCD AND THE STANDARD MUNICIPAL TRAFFIC CODE;
THE 2006 PROJECT DEVELOPMENT AND DESIGN GUIDE;
THE 1996 CONSTRUCTION AND TRAFFIC STANDARD DETAILS (TRAFFIC SIGNS AND SUPPORTS ONLY);
THE 1988 "STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING", AND
THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AS AMENDED, WILL GOVERN.

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LOCUS PLAN



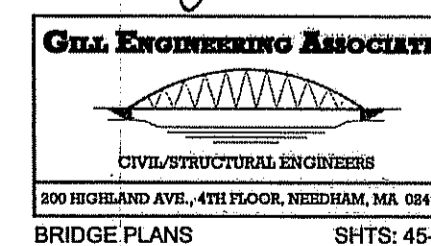
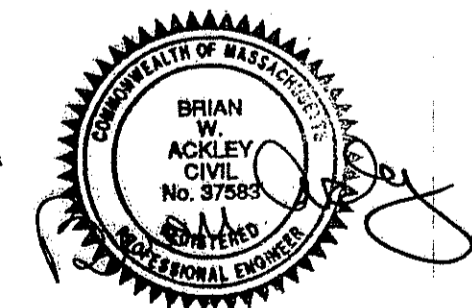
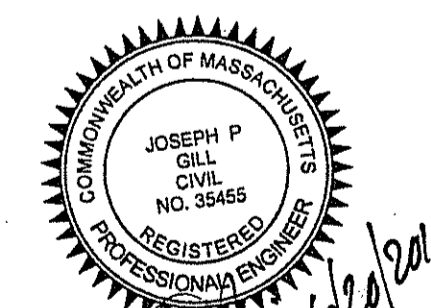
SCALE 1" = 1000'

LENGTH OF PROJECT = 435 FEET = 0.082 MILES

CONVENTIONAL SIGNS

COUNTY, CITY, OR TOWN BOUNDARY	-----
COUNTY, CITY, OR TOWN SIDE LINE	-----
FENCE LINE	-X-X-X-X-X-
BASE LINE OR SURVEY LINE	S36° 04'20"W 2+00
RIGHT OF WAY LINE	53.578
CULVERT	-----
RETAINING WALL	-----
GUARD RAIL	-----
STONE WALL	-----
TREE LINE	-----
POLE	○
PROPOSED SURFACE	-----
PRESENT SURFACE	-----
ELEVATIONS	10+20 PRES. 90.7 PROP. 90.91

DESIGN SPEED	DESIGN DESIGNATION		
	CEDAR ST.	WORCESTER ST.	ROUTE 9
ADT 2010	30 MPH	30 MPH	50 MPH
ADT 2030	12,184	4,732	39,000
K (5 - 6 PM)	13,402	5,205	--
D	8.0%	9.1%	8.0%
T (PEAK HOUR)	62.8%	63.8%	55.0%
T (AVERAGE DAY)	5.0%	5.2%	--
DHV	3.9%	4.1%	--
DDHV	1,072	474	--
CLASSIFICATION	673	302	--
	URBAN MINOR ARTERIAL	URBAN MINOR ARTERIAL	PRINCIPAL ARTERIAL



One Grant Street
Framingham, MA 01701-9005
508.903.2000
www.tetratech.com



RECOMMENDED FOR APPROVAL

CHIEF ENGINEER DATE

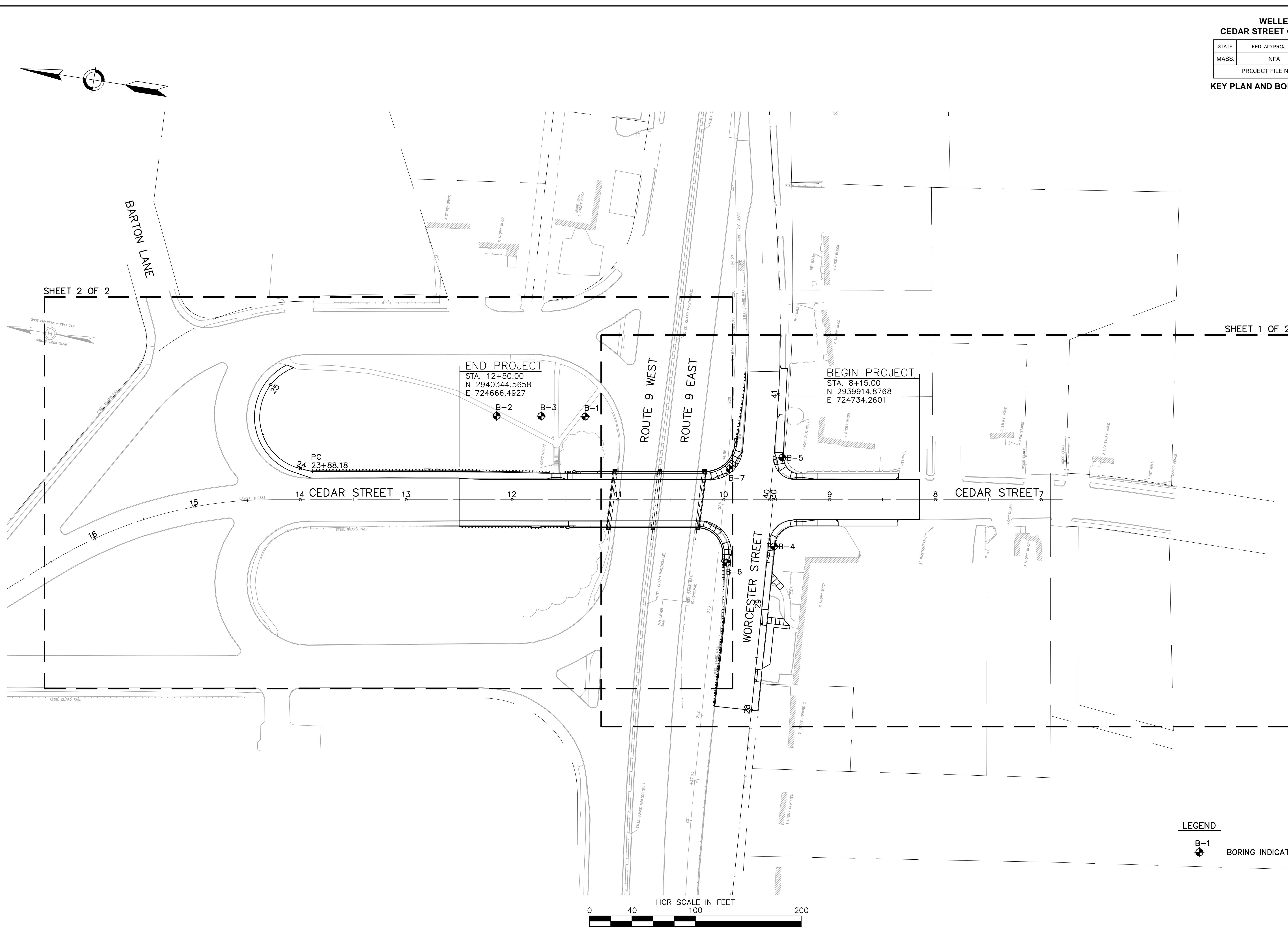
APPROVED

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

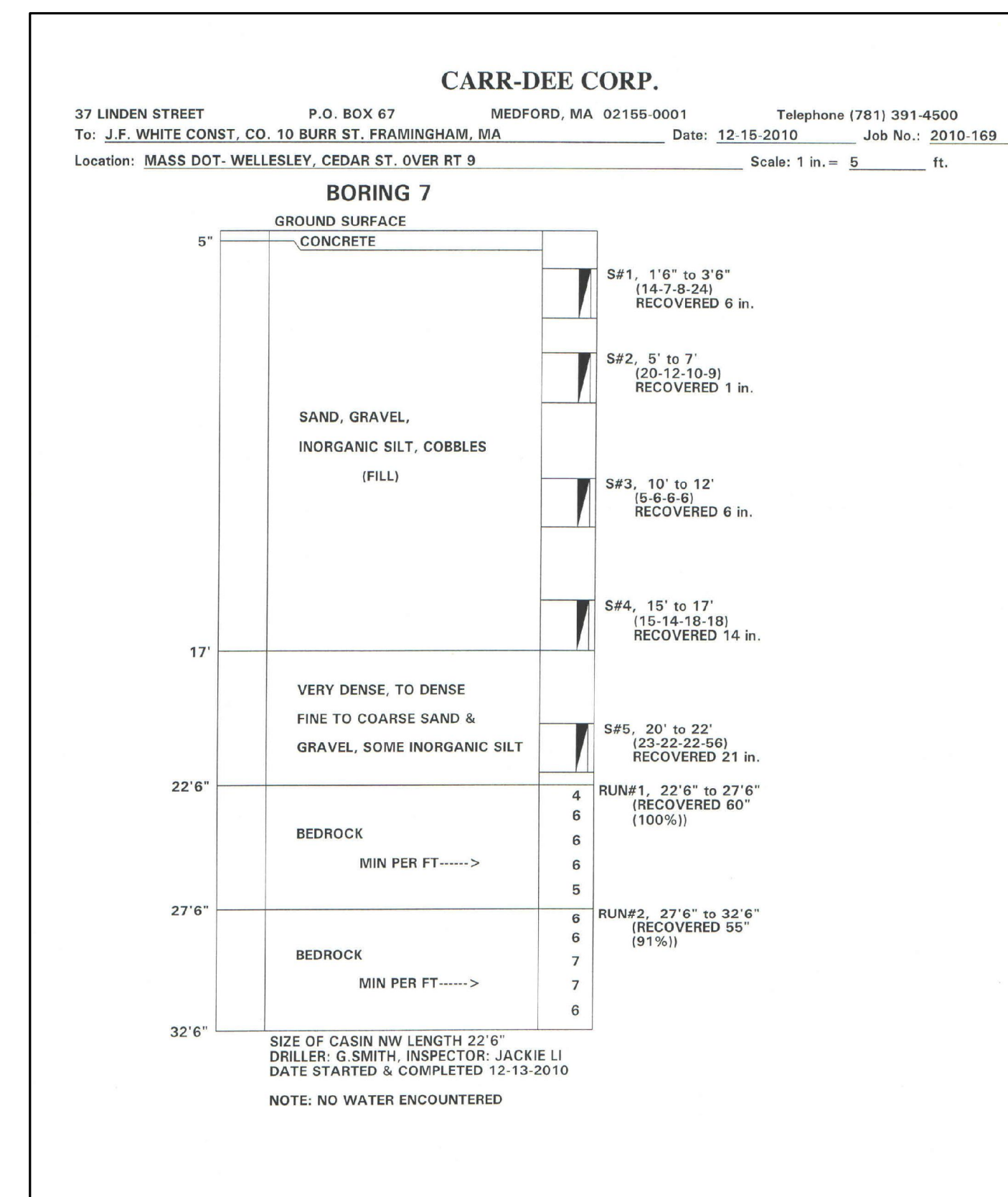
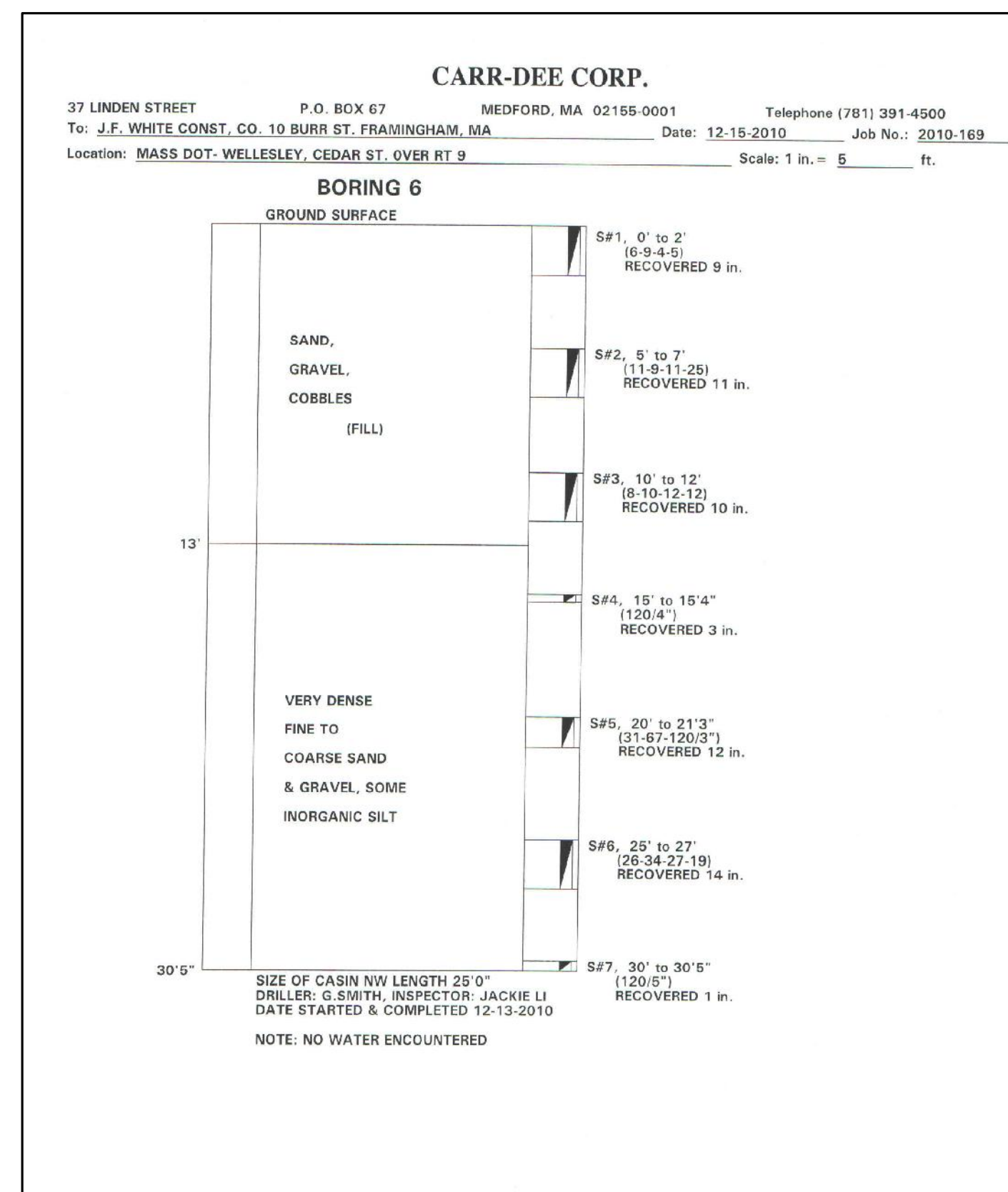
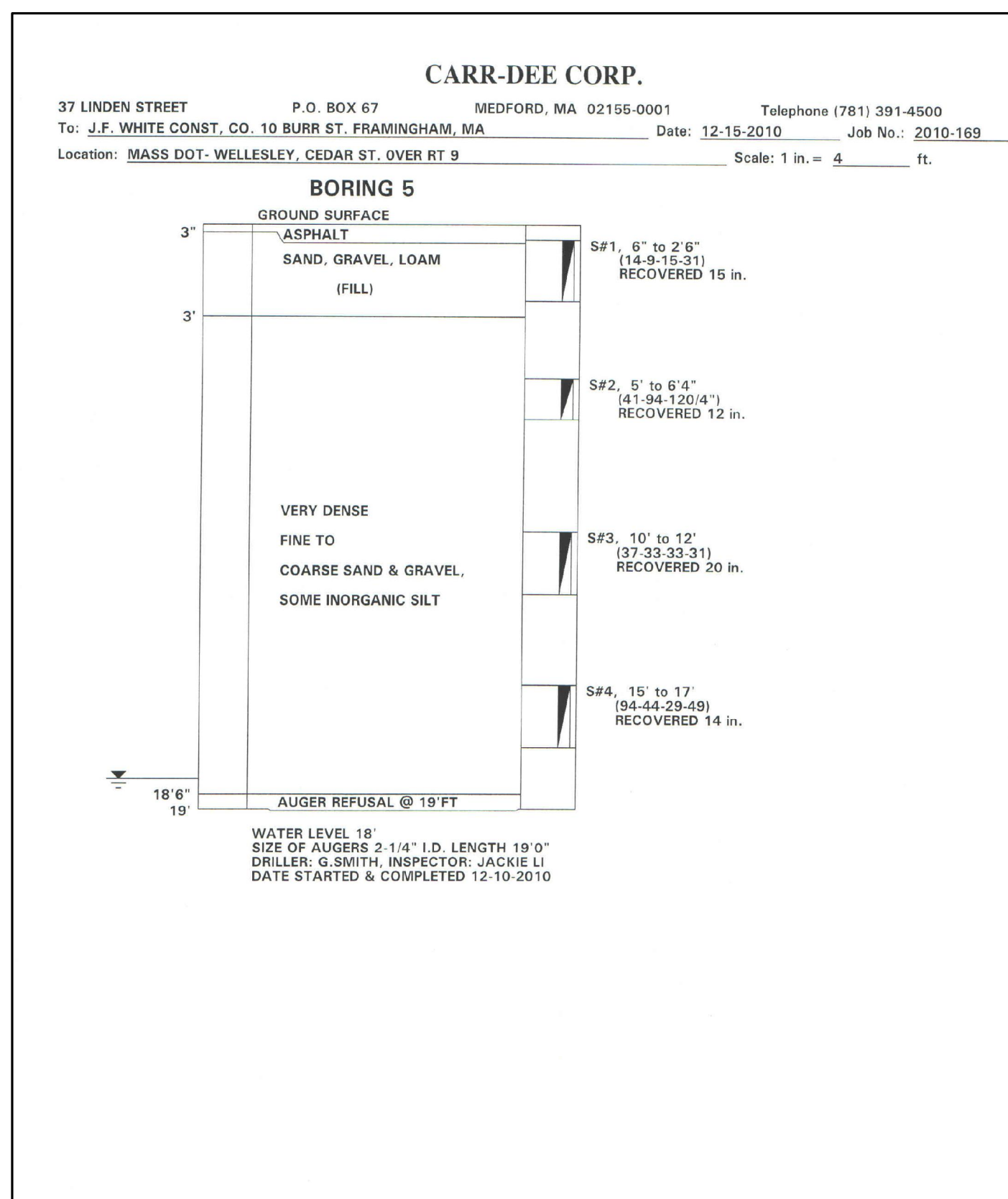
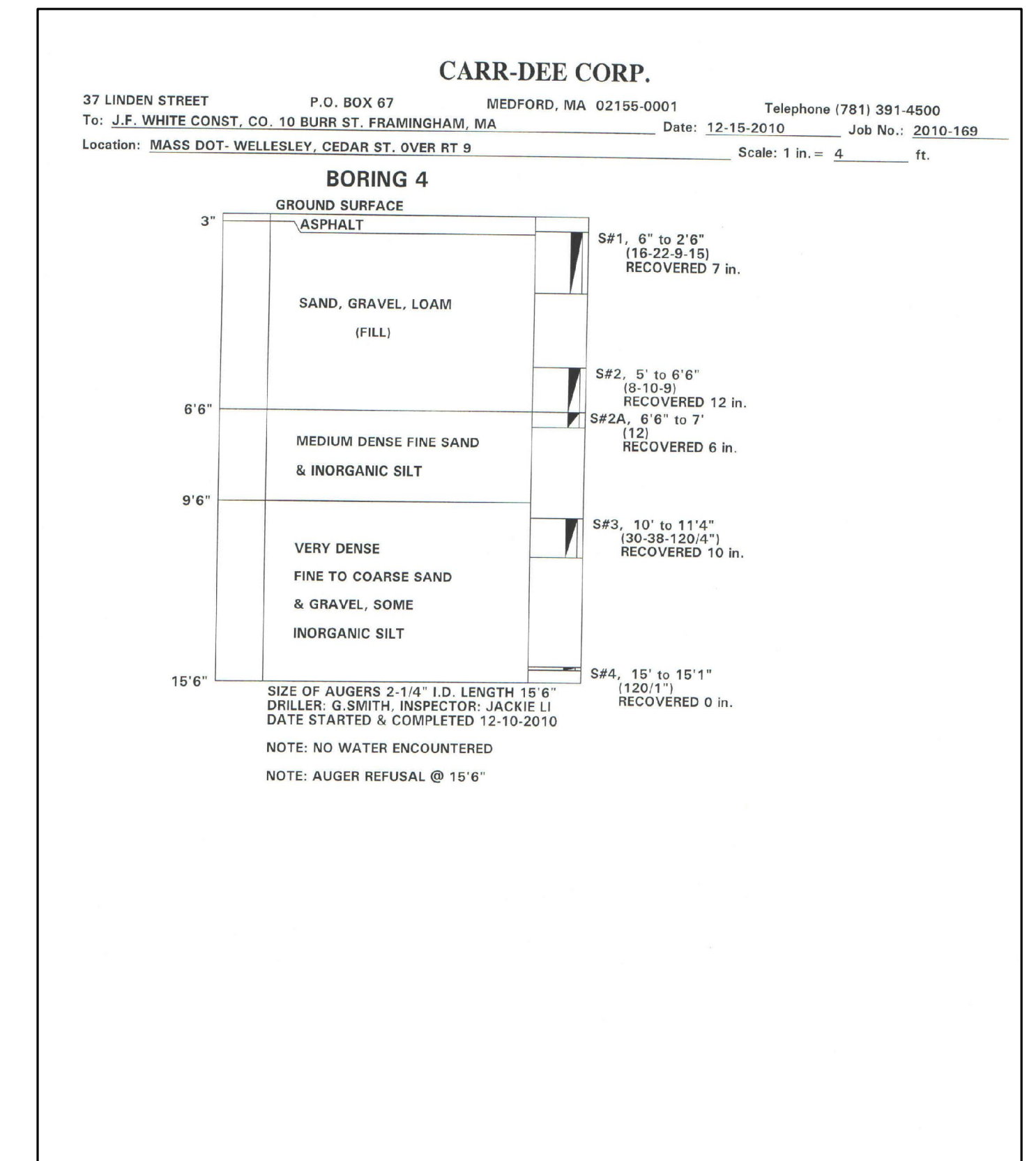
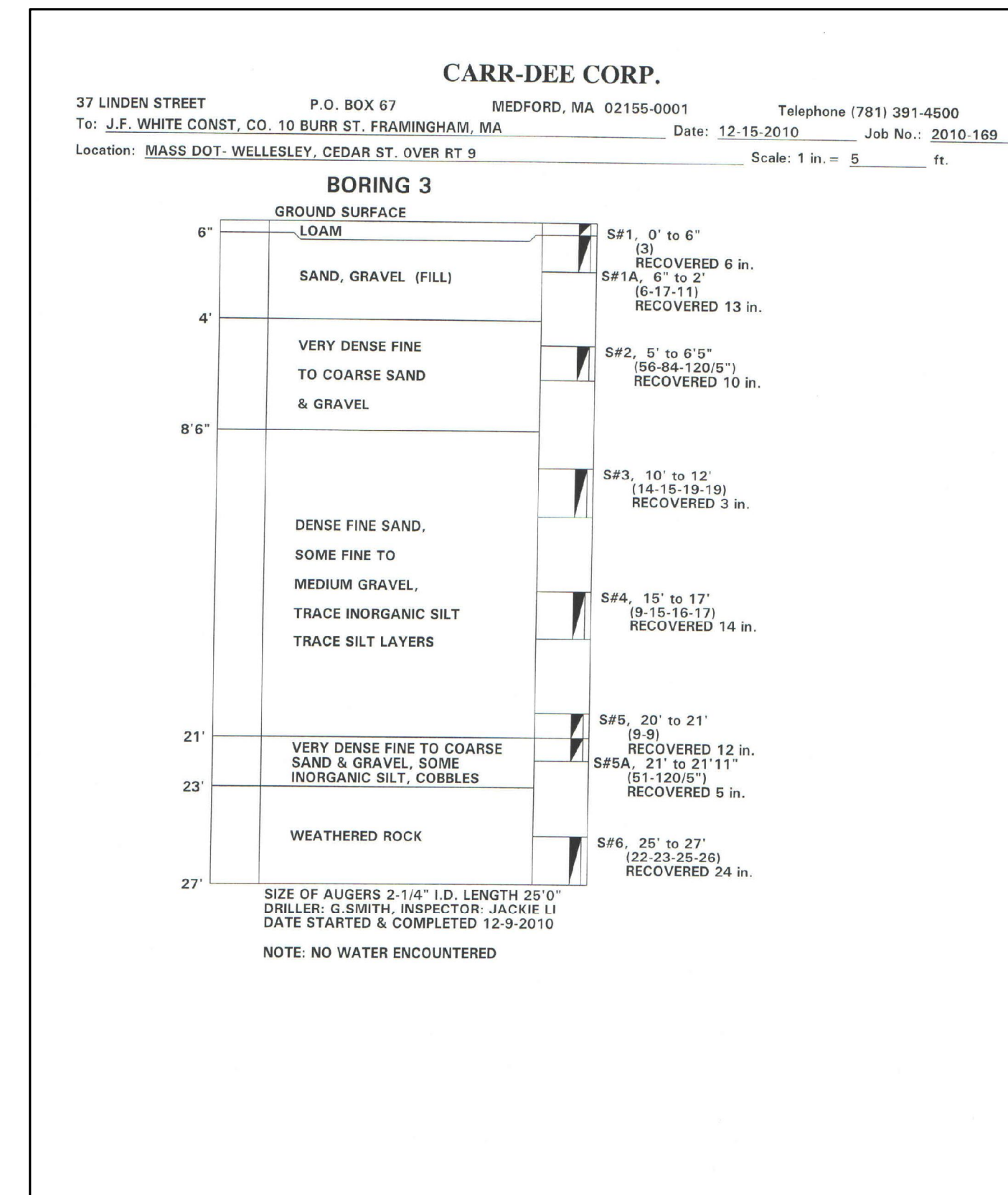
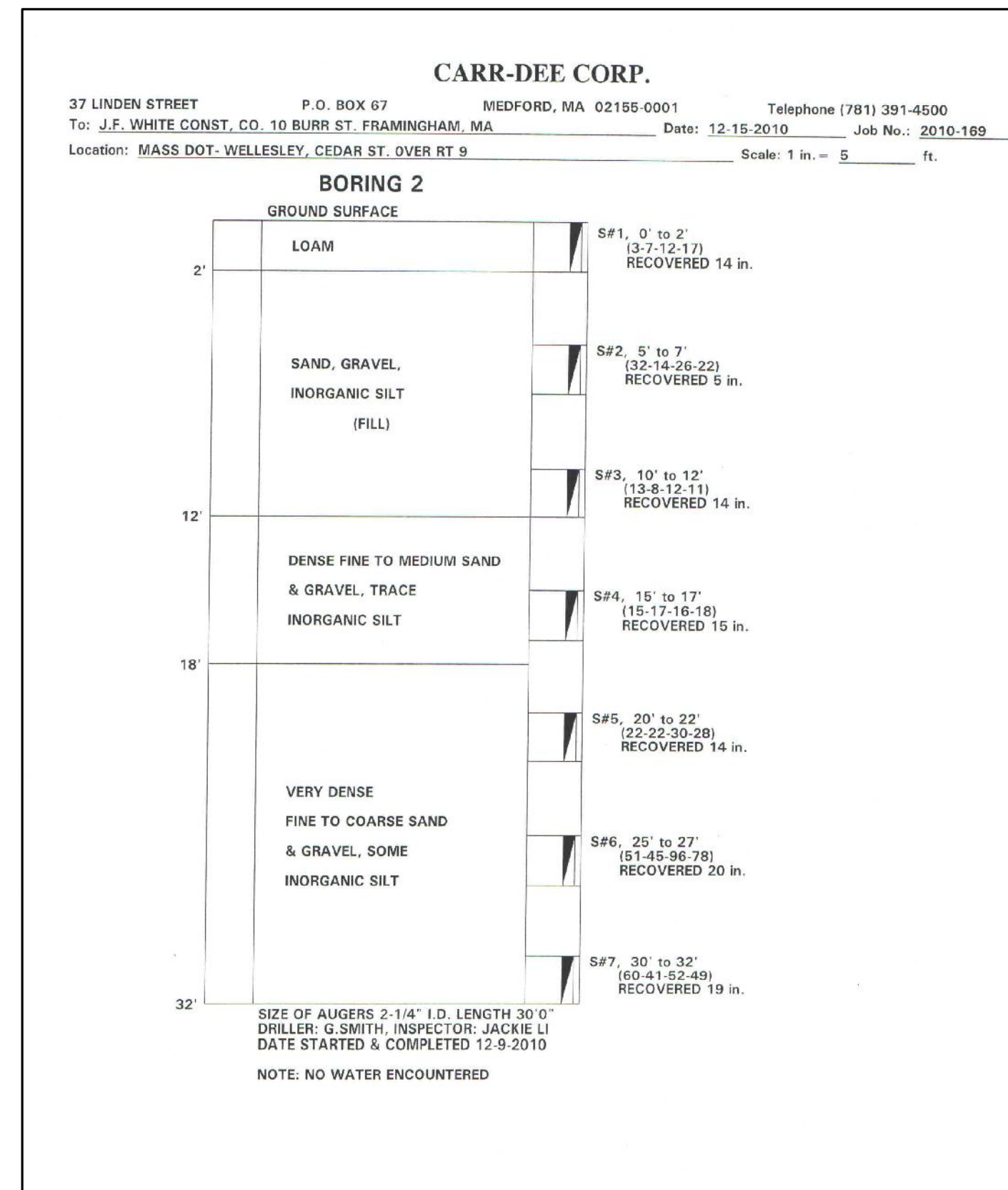
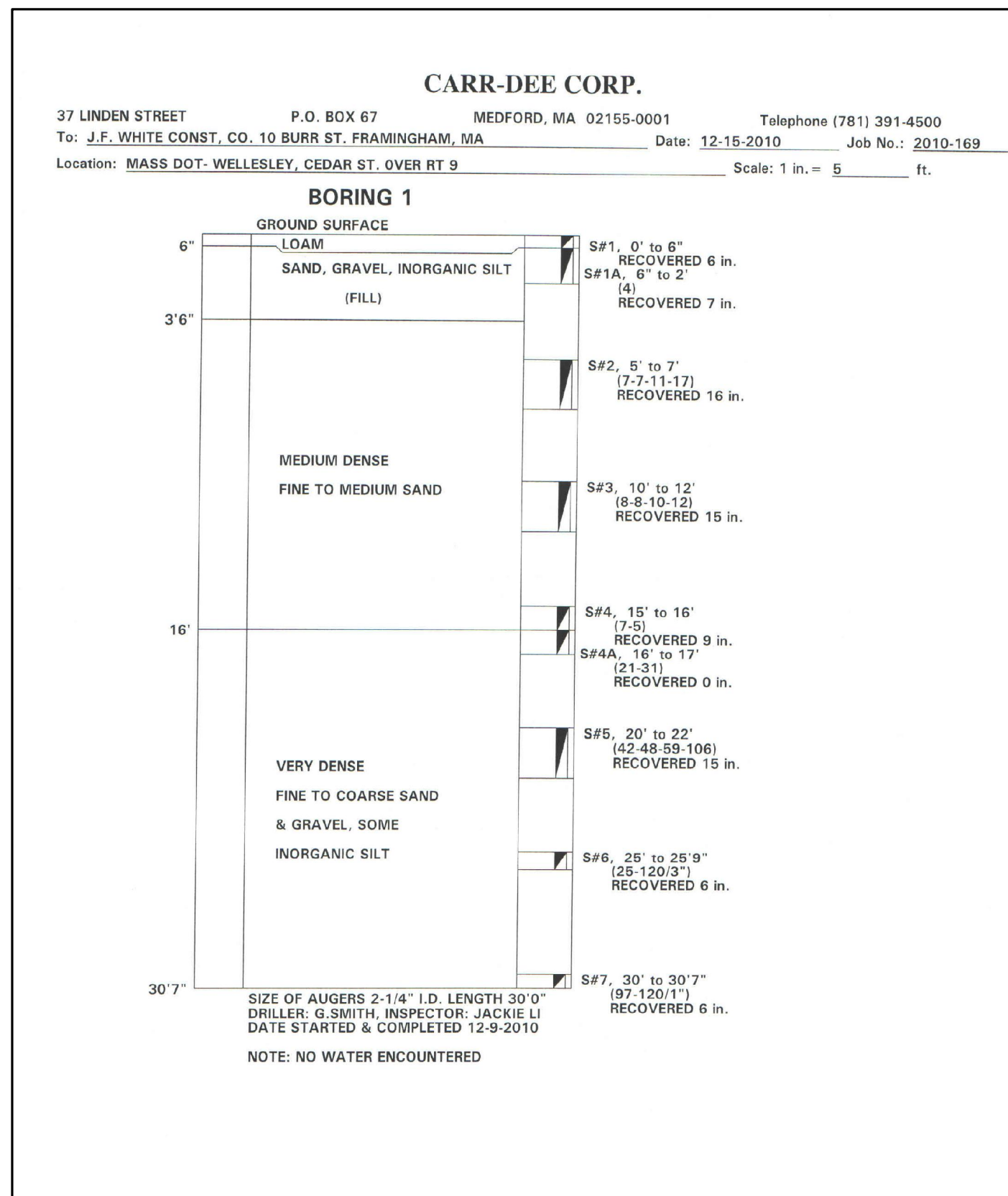
HIGHWAY ADMINISTRATOR DATE



**WELLESLEY
CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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PROJECT FILE NO. 604007			

BORING LOGS



**WELLESLEY
CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	4	72
PROJECT FILE NO.		604007	

ABBREVIATIONS

AADT	ANNUAL AVERAGE DAILY TRAFFIC	F	FILL	NO	NUMBER		
AASHTO	AMERICAN ASSOCIATION OF HIGHWAY AND TRANSPORTATION OFFICIALS	FA	FIRE ALARM, FEDERAL AID	NTS	NOT TO SCALE		
ABAN	ABANDON	F&C	FRAME & COVER				
ABUT	ABUTMENT	FDN	FOUNDATION	OW	OBSERVATION WELL	TRANS	TRANSITION
ACCOMP	ASPHALT COATED CORRUGATED METAL PIPE	FED	FEDERAL			TRWY	TRAVELED WAY
ADJ	ADJUST	F&G	FRAME & GRATE			TS	TRAFFIC SIGNAL
ADT	AVERAGE DAILY TRAFFIC	FH	FIRE HYDRANT	PB	PULL BOX	TV	TELEVISION (CABLE)
ALM	ALARM	FHWA	FEDERAL HIGHWAY ADMINISTRATION	PCC	POINT OF CURVATURE	TVMH	TELEVISION MANHOLE (CABLE)
ALT	ALTERNATE, ALTERNATIVE	FIN	FINISH	PGL	PROFILE GRADE LINE	TYP	TYPICAL
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	FL	FLOW LINE	PI	POINT OF INTERSECTION		
APPR	APPROACH	FLDSTN	FIELDSTONE	PKG	PARKING	UD	UNDERDRAIN OR SUBDRAIN
APPROX	APPROXIMATE	FLR	FLOOR	PL OR R	PROPERTY LINE	UP	UTILITY POLE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FS	FIRE SIGNAL	PM	PARKING METER	USGS	U.S. GEOLOGICAL SURVEY
AUX	AUXILIARY	FT	FOOT, FEET	POC	POINT ON CURVE	UTIL	UTILITIES
AVE	AVENUE			POT	POINT ON TANGENT		
		G	GAS	PRC	POINT OF REVERSE CURVATURE	V	DESIGN SPEED
BAR	BARRIER	GAL	GALLON	PROJ	PROJECT	VAR	VARIABLE
B&B	BALLED & BURLAPPED	GALV	GALVANIZED	PROP	PROPOSED	VC	VERTICAL CURVE
BD	BOUND	GAR	GARAGE	PSB	PLANTABLE SOIL BORROW	VCP	VITRIFIED CLAY PIPE
BIT	BITUMINOUS	GD	GROUND	PSF	POUNDS PER SQUARE FOOT	VERT	VERTICAL
BL OR R	BASELINE	GDRL	GUARD RAIL	PSI	POUNDS PER SQUARE INCH		
BLDG	BUILDING	GG	GAS GATE	PT	POINT OF TANGENCY, POINT	W	WEST
BM	BENCH MARK, BEAM	GI	GUTTER INLET	PVC	POINT OF VERTICAL CURVATURE	W.BD	WESTBOUND
BO	BY OTHERS	GIP	GALVANIZED IRON PIPE	PVI	POINT OF VERTICAL INTERSECTION	WCR	WHEELCHAIR RAMP
BOD	BOTTOM OF DITCH	GM	GAS METER	PVMT	PAVEMENT	WD	WOOD
BOT	BOTTOM	GRAN	GRAVEL	PVT	POINT OF VERTICAL TANGENCY	WDTH	WIDTH
BR	BRIDGE	GRAV	GAS VALVE	PWW	PAVED WATERWAY	WE	WATER ELEVATION
BRG	BEARING	GV				WG	WATER GATE
BRK	BRICK			QTY	QUANTITY	WP	WROUGHT IRON PIPE
		HDW	HEADWALL			WM	WATER METER, WATER MAIN
C	CUT	HGL	HYDRAULIC GRADE LINE	R	RADIUS, ROCK EXCAVATION	WMH	WATER MANHOLE
CB	CATCH BASIN	HH	HANDHOLE	RAIL	RAILING	WV	WATER VALVE
CBCI	CATCH BASIN WITH CURB INLET	HMA	HOT MIX ASPHALT	RAD	RADIUS		
CC	CEMENT CONCRETE	HO	HOUSE	RC	REINFORCED CONCRETE	X-SECT	CROSS-SECTION
CCM	CEMENT CONCRETE MASONRY	HOR	HORIZONTAL	RCB	REINFORCED CONCRETE BOX CULVERT		
CEM	CEMENT	HOV	HIGH OCCUPANCY VEHICLE	RCP	REINFORCED CONCRETE PIPE	YD	YARD
CF	CUBIC FEET	HP	HIGH POINT	RD	ROAD	YR	YEAR
CFS	CUBIC FEET PER SECOND	HES	HIGH EARLY STRENGTH	RDWY	ROADWAY		
CI	CAST IRON, CURB INLET	HS	HIGH SERVICE WATER	REFL	REFLECTORIZED		
CIP	CAST IRON PIPE	HWY	HIGHWAY	REINF	REINFORCE, REINFORCING		
CIP CONC	CAST IN PLACE CONCRETE	HWY GD	HIGHWAY GUARD	RELOC	RELOCATE(D), RELOCATION		
CIP(CL)	CAST IRON PIPE (CEMENT LINED)	HYD	HYDRANT	REM	REMOVE		
CL	CENTERLINE	IN	INCH	REMODEL	REMODEL	R	STEADY CIRCULAR RED
CLF	CHAIN LINK FENCE	INV	INVERT	REQD	REQUIRED	Y	STEADY CIRCULAR YELLOW
CLL	CLEARING LIMIT LINE	IP	IRON PIPE	RET	RETAIN, RETAINING	G	STEADY CIRCULAR GREEN
CLP	CEMENT LINED PIPE	IR	IRON	RET WALL	RETAINING WALL	FR	FLASHING CIRCULAR RED
CLR	CLEAR, CLEARANCE	IT	INTERSECTION OF SLOPES OR PROFILE GRADE LINES	REV	REVISION, REVISED	FY	FLASHING CIRCULAR YELLOW
CMB	CONCRETE MEDIAN BARRIER	JCT	JUNCTION	ROW	RIGHT-OF-WAY	RLA	STEADY RED LEFT ARROW
CMP	CORRUGATED METAL PIPE			RR	RAILROAD	YLA	STEADY YELLOW LEFT ARROW
CO	CLEANOUT, COUNTRY	K	RATE OF VERTICAL CURVATURE, RATIO OF DESIGN	R&R	REMOVE AND RESET	GLA	STEADY GREEN LEFT ARROW
COL	COLUMN		HOURLY VOLUME TO AVERAGE DAILY TRAFFIC	RS	RAILROAD SIGNAL	RRA	STEADY RED RIGHT ARROW
CONC	CONCRETE			R&S	REMOVE AND STACK	YRA	STEADY YELLOW RIGHT ARROW
COND	CONDUIT	L	LENGTH OF CURVE	RT	RIGHT	GRA	STEADY GREEN RIGHT ARROW
CONST	CONSTRUCT, CONSTRUCTION	LAT	LATERAL	RTE	ROUTE	W	STEADY WALK
CONT	CONTINUE(D), CONTINUATION	LB	LEACHING BASIN			FDW	FLASHING DON'T WALK
CS	COMBINED SEWER	LB(S)	POUND(S)	S	SOUTH, SLOPE, SIGN	DW	STEADY DON'T WALK
CSJT	CONSTRUCTION JOINT	LDSCP	LANDSCAPING	SAN	SANITARY	ØA	TRAFFIC SIGNAL PHASE
CSMH	COMBINED SEWER MANHOLE	LF	LINEAR FEET	SB	STONE BOUND, SPECIAL BORROW	BWLL	4" BROKEN WHITE LANE LINE
CTR	CENTER	LP	LOW POINT, LIGHT POLE	S.BD	SOUTHBOUND		(10 FT. LENGTH, 30 FT. GAP)
CULV	CULVERT	LS	LOW SERVICE WATER	SD	STORM DRAIN, SUBDRAIN	DWLL	4" DOTTED WHITE LANE LINE
CY	CUBIC YARD	LT	LEFT	SDMH	STORM DRAINAGE MANHOLE		(3 FT LENGTH, 9 FT. GAP)
				SE	SUPERELEVATION	DYCL	4" DOUBLE YELLOW CENTER LINE
Δ	DELTA ANGLE (CENTRAL ANGLE OF HORIZONTAL CURVE)	M	MUCK EXCAVATION	SEC	SECTION	DYL	4" DOTTED YELLOW LINE
D	DIRECTIONAL PERCENTAGE OF DESIGN HOURLY VOLUME	m	METER	SF	SQUARE FEET		(2 FT LENGTH, 4 FT. GAP)
DIA	DIAMETER	MASS	MASSACHUSETTS	SH	SHEET	SWCHL	8" SOLID WHITE CHANNELIZING LINE
DA	DRAINAGE AREA	MAX	MAXIMUM	SHLD	SHOULDER	SWEL	4" SOLID WHITE EDGE LINE
DDHV	DIRECTIONAL DESIGN HOURLY VOLUME	MB	MAILBOX	SHLL	STATE HIGHWAY LAYOUT LINE	SWGL	12" SOLID WHITE GORE LINE
DEPT	DEPARTMENT	MBTA	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	SHLO	STATE HIGHWAY LAYOUT	SWLL	4" SOLID WHITE LANE LINE
DET	DETAIL	MDC	METROPOLITAN DISTRICT COMMISSION	SK	SKEW	SYEL	4" SOLID YELLOW EDGE LINE
DHV	DESIGN HOURLY VOLUME	MED	MEDIAN	SL	STOP LINE, SURVEY LINE	WTL	8" WHITE TRANSVERSE LINE
DI	DROP INLET	MH	MANHOLE	SPEC(S)	SPECIFICATION(S)	YTL	8" YELLOW TRANSVERSE LINE
DIM	DIMENSION	MHB	MASSACHUSETTS HIGHWAY BOUND	SS	SANITARY SEWER	CW	12" CROSSWALK
DIP(L)	DUCTILE IRON PIPE (LINED)	MASSDOT	MASSACHUSETTS DEPARTMENT OF TRANSPORTATION	SSD	STOPPING SIGHT DISTANCE	LN	LANE
DR	DRIVE, DRAIN	MHW	MEAN HIGH WATER	SSMH	SANITARY SEWER MANHOLE	SL	12" WHITE STOP LINE
		MIN	MINIMUM	ST	STREET		
E	EAST, EXTERNAL	MISC	MISCELLANEOUS	STA	STATION		
EA	EACH	MLW	MEAN LOW WATER	STD	STANDARD		
EB	ELECTRICAL BOX	mm	MILLIMETER	STMH	STEAM MANHOLE	BE	BURIED END
E.BD	EASTBOUND	MPH	MILES PER HOUR	STR	STRUCTURE, STRUCTURAL	FE	FLARED END
EHH	ELECTRIC HANDHOLE	MSL	MEAN SEA LEVEL	STY	STORY	LE	LEADING END
ELEV	ELEVATION	MTA	MASSACHUSETTS TURNPIKE AUTHORITY	SURF	SURFACE, SURFACING	TB	TRANSITION BEAM W-BEAM TO THRIE BEAM
ELEC	ELECTRICAL	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	SW	SIDEWALK	TS	TERMINAL SECTION
EMB	EMBANKMENT	MWRA	MASSACHUSETTS WATER RESOURCES AUTHORITY	SY	SQUARE YARD	TE	TRAILING END
EMH	ELECTRIC MANHOLE						
ENT	ENTRANCE	N	NORTH	T	PERCENTAGE OF TRUCKS, TON, TANGENT LENGTH OF CURVE		
EOP	EDGE OF PAVEMENT	N/A	NOT APPLICABLE	TAN	TANGENT		
EQ	EQUAL	NAD	NORTH AMERICAN DATUM	TCB	TRAFFIC CONTROL BOX		
EST	ESTIMATE	NAV D	NORTH AMERICAN VERTICAL DATUM	TEL	TELEPHONE		
EXC	EXCAVATION	N.BD	NORTHBOUND	TEMP	TEMPORARY		
EXIST	EXISTING	NC	NORMAL CROWN	TMH	TELEPHONE MANHOLE		
EXJT	EXPANSION JOINT	NET	NEW ENGLAND TELEPHONE	TOPO	TOPOGRAPHY		
EXPWY	EXPRESSWAY	NGVD	NATIONAL GEODETIC VERTICAL DATUM	TP	TURNING POINT		
EXP	EXPANSION	NIC	NOT IN CONTRACT	TSC	TRAFFIC SIGNAL CONDUIT		
EXT	EXTERIOR, EXTERNAL						

TRAFFIC ABBREVIATIONS

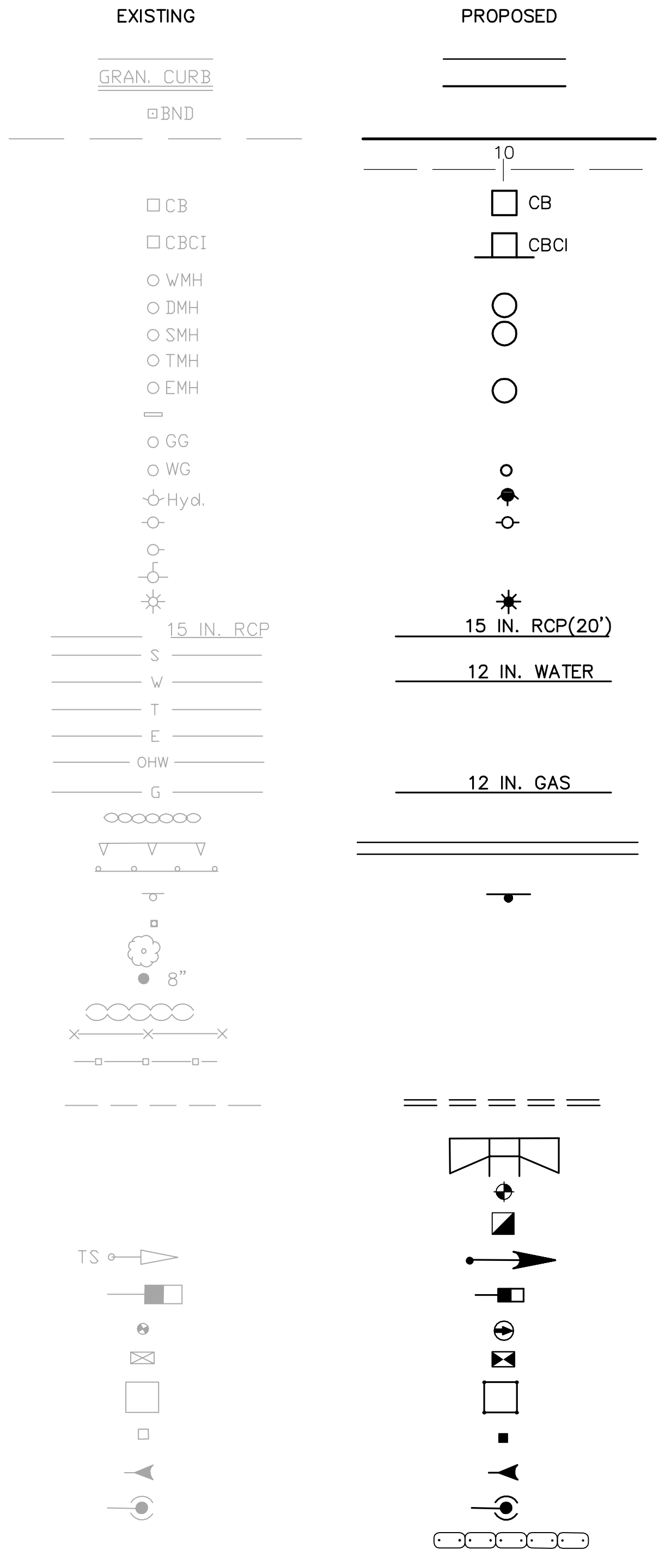
HIGHWAY GUARD ABBREVIATIONS

LEGEND

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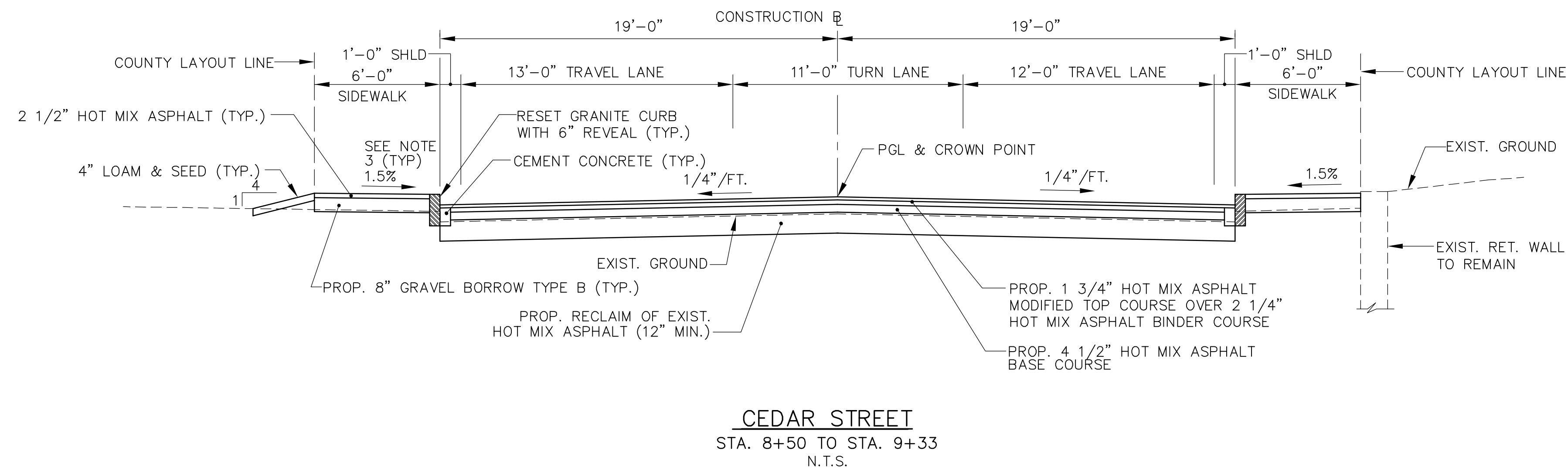
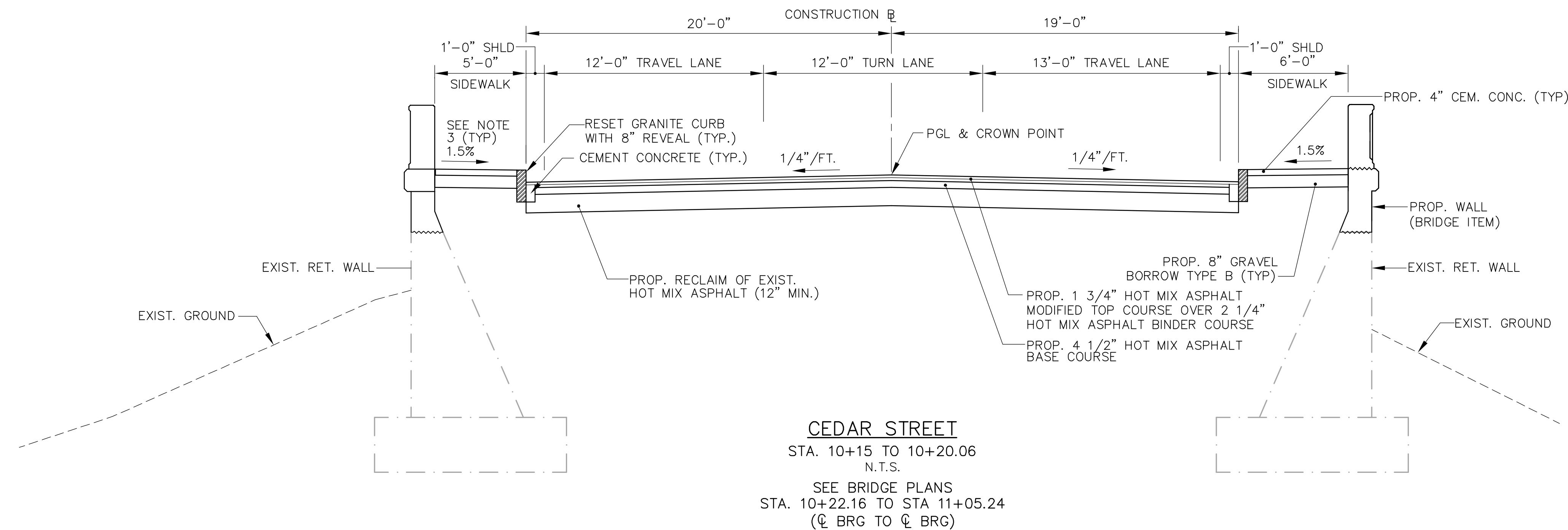
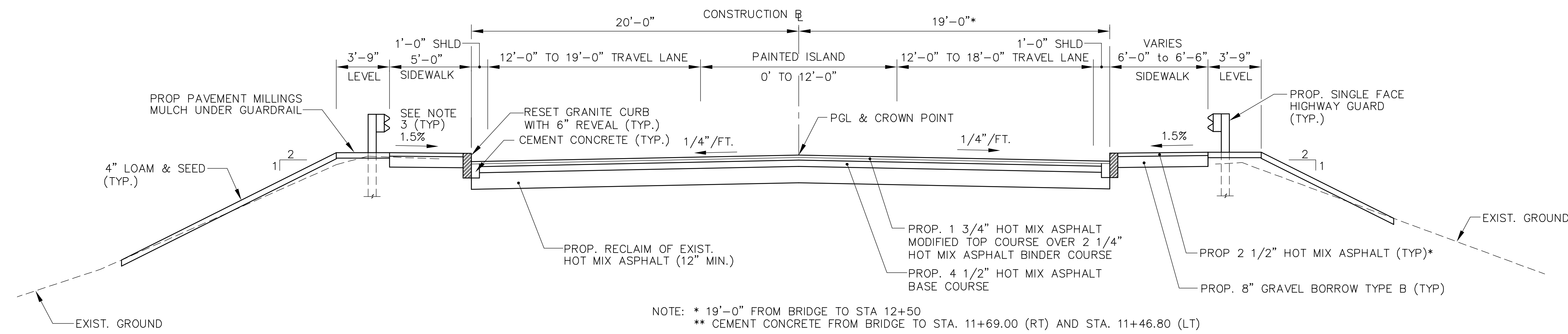
LEGEND AND GENERAL NOTES



EDGE OF PAVEMENT
 GRANITE CURB
 BOUND (TYPE NOTED)
 PROPERTY LINE
 CONSTRUCTION BASELINE
 CATCH BASIN
 CATCH BASIN CURB INLET
 WATER MANHOLE
 DRAINAGE MANHOLE
 SEWER MANHOLE
 TELEPHONE MANHOLE
 ELECTRIC MANHOLE
 ELECTRIC HAND HOLE
 GAS GATE
 WATER GATE
 HYDRANT
 UTILITY POLE, TELEPHONE, POWER
 GUY POLE
 UTILITY POLE W/ LIGHT
 LIGHT POLE
 DRAINAGE PIPE (LENGTH, SIZE & TYPE OF MATERIAL)
 SEWER LINE (LENGTH, SIZE & TYPE OF MATERIAL)
 WATER MAIN (NOTE SIZE)
 TELEPHONE CONDUIT (NAME OF UTILITY)
 ELECTRIC CONDUIT (NAME OF UTILITY)
 OVERHEAD ELEC. AND/OR TELE.
 GAS MAIN (NOTE SIZE)
 BALANCED STONE WALL
 RETAINING WALL
 STEEL BEAM GUARD RAIL
 SIGN AND POST
 FIRE ALARM BOX
 SHRUB (UNLABELED)
 TREE
 HEDGE
 CLF FENCE
 WOODEN FENCE
 TRAFFIC SIGNAL CONDUIT
 WHEELCHAIR RAMP
 BORING
 TEST PIT
 VEHICULAR SIGNAL HEAD AND POST
 PEDESTRIAN WALK--DON'T WALK SIGNAL
 PEDESTRIAN PUSH BUTTON ASSEMBLY
 TRAFFIC CONTROLLER AND CABINET
 INDUCTION LOOP DETECTOR
 12" X 12" PULL BOX
 OPTICAL DETECTOR
 PREEMPTION CONFIRMATION BEACON
 FIBER ROLL

GENERAL NOTES

- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT FOR REVIEW A SCHEDULE OF OPERATIONS IN ADDITION TO OTHER CONTRACT REQUIREMENTS TO MASSDOT.
- THE PLAN IS BASED UPON AN ACTUAL INSTRUMENT SURVEY PERFORMED SEPTEMBER 2001 THROUGH JANUARY 2002 BY KURDISH - VAIDYA. ADDITIONAL FIELD LOCATIONS, EDITS AND PLAN WERE PERFORMED BY CULLINAN ENG. CO, INC. IN OCTOBER 2002.
- VERTICAL CONTROL IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
- HORIZONTAL CONTROL IS BASED ON VALUES PROVIDED BY MEANS OF GLOBAL POSITIONING SYSTEM METHODS, AND IS BASED ON THE NORTH AMERICAN DATUM OF 1983, (NAD-83), MASSACHUSETTS STATE PLANE COORDINATE SYSTEM MAINLAND ZONE, FOR STATIONS AS PROVIDED BY MASS. DOT GEODETIC SURVEY.
- EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE LOCATION, SIZE, TYPE, ETC. OF ALL UNDERGROUND UTILITIES FROM THE TOWN OR UTILITY COMPANY CONCERNED BEFORE EXCAVATING (SEE SPECIAL PROVISIONS). ALTERATIONS TO UTILITY LINES AND/OR STRUCTURES SHALL BE MADE BY THE RESPECTIVE UTILITY COMPANY.
- THE PROPERTY LINES SHOWN ARE APPROXIMATE ONLY AND ARE BASED UPON RECORD DEEDS, PLANS AND ASSESSORS INFORMATION SUPPLIED FOR THIS PROJECT.
- WHERE THE NEW CONSTRUCTION COINCIDES WITH PRESENT TRAVELED WAYS, THE CONTRACTOR SHALL PERFORM HIS WORK IN A MANNER ACCEPTABLE TO THE RESIDENT ENGINEER SO THAT INTERFERENCE TO BUSINESS CONCERNS AND ABUTTERS, ON ACCOUNT OF THE CONSTRUCTION WORK, IS KEPT TO A MINIMUM. THE CONTRACTOR WILL NOT BE ALLOWED TO PARK EQUIPMENT OR STOCKPILE MATERIAL ON THE TRAVELED WAYS OVERNIGHT OR WHEN NOT IN USE. THE CONTRACTOR SHALL MAINTAIN SAFE AND REASONABLE ACCESS TO AND FROM ABUTTING PROPERTIES AT ALL TIMES AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL EXCAVATE TEST PITS TO VERIFY LOCATIONS OF EXISTING UTILITIES AS INDICATED OR AS DIRECTED BY THE RESIDENT ENGINEER.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE UTILITY COMPANIES DOING WORK IN THE SAME AREA. THE CONTRACTOR SHALL ALLOW THE UTILITY COMPANIES AND THEIR REPRESENTATIVES TO INSTALL THEIR SYSTEMS WITHIN TOWN OWNED STREETS AND EASEMENTS.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO EXISTING LABELED SEWER MANHOLE OR DRAINAGE MANHOLE COVERS SHOWN ON THE PLANS AS THEY MAY NOT ACCURATELY REPRESENT THE UNDERGROUND SERVICE. PRIOR TO ANY WORK THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OF AN EXISTING COVER NOT ACCURATELY REPRESENTING THE SERVICE BELOW.
- NO EXISTING PUBLIC UTILITY STRUCTURES SHALL BE ABANDONED AND/OR DISMANTLED WITHOUT AUTHORIZATION FROM THE RESIDENT ENGINEER.
- THE CONTRACTOR SHALL PROVIDE METHODS DURING DEWATERING OPERATIONS AND FOR STORM WATER RUNOFF NOT TO ALLOW SILT OR DEBRIS TO ENTER EXISTING DRAINAGE FACILITIES OR CREATE NUISANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING EXISTING OR NEW FACILITIES IF SILTATION OCCURS DUE TO THE CONTRACTOR'S OPERATIONS.
- FINAL LOCATION OF TRAFFIC SIGNS AND SUPPORTS SHALL BE SHOWN ON THE TRAFFIC PLAN AND MAY, IF NECESSARY, AT DISCRETION OF THE RESIDENT ENGINEER, BE MODIFIED IN THE FIELD AS APPROPRIATE.
- DETAILS FOR SIGN SUPPORTS SHALL BE IN ACCORDANCE WITH MASSDOT STANDARD DRAWINGS.
- DAMAGE OF PROPERTY BEYOND THE WORK LIMITS CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, SUBJECT TO THE APPROVAL OF THE RESIDENT ENGINEER AND ACCEPTANCE OF THE PROPERTY OWNER.
- ALL NON-PRECAST CEMENT CONCRETE USED ON THIS PROJECT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI OR AS OTHERWISE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS AT HIS OWN EXPENSE IF NOT OTHERWISE SPECIFIED, OUTSIDE OF THE PROJECT LIMITS.
- ALL EXISTING TOWN OF WELLESLEY UTILITY CASTINGS SUCH AS WATER BOXES, CURB STUBS, MANHOLE FRAMES AND COVERS, CATCH BASIN FRAME AND GRATES AND OTHER CASTINGS SHALL BE ADJUSTED BY THE CONTRACTOR TO LINE AND GRADE AS DIRECTED BY THE RESIDENT ENGINEER UNLESS OTHERWISE SPECIFIED IN THE SPECIAL PROVISIONS OR ON THE CONTRACT PLANS.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL UTILITIES THROUGHOUT THE PROJECT SO THAT THE VARIOUS UTILITY OWNERS HAVE ACCESS TO VAULTS AND MANHOLES TO OPERATE VALVES AND OTHER CONTROLS ON THEIR SYSTEM.
- THE LOCATIONS OF PROPOSED PIPELINES, STRUCTURES AND UTILITY RELOCATIONS MAY BE MODIFIED TO SUIT FIELD CONDITIONS AT THE DISCRETION OF THE RESIDENT ENGINEER. OFFSETS TO CATCH BASINS ARE TO THE CENTER OF THE GRATE AT FACE OF CURB.
- IF THE CONTRACTOR DAMAGES UTILITY SERVICES, HE SHALL IMMEDIATELY NOTIFY THE RESPECTIVE UTILITY COMPANY AND SHALL IMMEDIATELY REPLACE OR REPAIR, UNLESS INDICATED OTHERWISE BY THE RESPECTIVE UTILITY OWNER.
- ALL PROPOSED DRAINAGE CONNECTIONS TO EXISTING STRUCTURES WILL BE INCLUDED IN THE COST OF INSTALLATION OF THE NEW PIPE OR STRUCTURE.
- RIM ELEVATIONS MAY BE SUBJECT TO FIELD ADJUSTMENTS AS DIRECTED BY THE RESIDENT ENGINEER. ELEVATIONS ON CATCH BASINS ARE REFERENCED TO THE CENTER OF GRATE AT FACE OF CURB AND ARE 1 INCH BELOW PAVEMENT GRADE.
- WHERE WATERLINES, DRAINAGE PIPES OR STRUCTURES ARE ABANDONED IN PLACE, CONTRACTOR SHALL MAKE SURE THAT ALL CONNECTING PIPES, INLETS AND OUTLETS ARE PLUGGED. ALL LIVE CONNECTIONS SHALL BE CONNECTED TO THE NEW SYSTEM.
- WHEN A PROPOSED CATCH BASIN INTERFERES WITH ANY UNDERGROUND UTILITY, A GUTTER INLET SHALL BE USED.
- ALL WHEELCHAIR RAMPS SHALL CONFORM TO THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (AAB) RULES AND REGULATIONS AND THE AMERICANS WITH DISABILITIES ACT (ADA) GUIDELINES. SEE LATEST MASSDOT CONSTRUCTION STANDARDS.
- IN ALL LOCATIONS WHERE PROPOSED SIDEWALK TRANSITIONS TO MEET EXISTING GRADE, SIDEWALK OR PAVED AREA, SLOPE SHALL NOT EXCEED 1:12.
- SAFETY CONTROLS FOR CONSTRUCTION OPERATIONS SHALL BE IN ACCORDANCE WITH MASSDOT REQUIREMENTS, THE MUTCD AND THE SPECIAL PROVISIONS.
- AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'-0" SHALL BE MAINTAINED PAST ALL OBSTRUCTIONS (UTILITY POLES, SIGNS, SIGNAL FOUNDATIONS AND MASTS, MAILBOXES, ALONG DRIVE OPENINGS, ETC.).
- EXISTING CURB IN GOOD CONDITION SHALL BE RESET. NEW CURB SHALL BE USED ONLY AFTER ALL EXISTING CURB HAS BEEN RESET.
- ALL TRENCH BACKFILL SHALL BE MECHANICALLY TAMPED. NO JETTING SHALL BE ALLOWED.
- THE CONTRACTOR SHALL NOTIFY DIGSAFE PRIOR TO THE START OF ANY WORK ON THE PROJECT.



PAVEMENT NOTES:

PROPOSED FULL DEPTH PAVEMENT RECLAMATION:

- SURFACE: 4" HOT MIX ASPHALT PLACED IN TWO (2) LAYERS - 1 3/4" MODIFIED TOP COURSE MATERIAL OVER 2 1/4" BINDER COURSE MATERIAL.
- BASE: 4 1/2" HOT MIX ASPHALT BASE COURSE MATERIAL PLACED IN ONE (1) LAYER.
- SUBBASE: RECLAIM OF EXISTING HOT MIX ASPHALT (12" MIN.).

PROPOSED SIDEWALK - HOT MIX ASPHALT:

- SURFACE: 2 1/2" HOT MIX ASPHALT PLACED IN TWO (2) LAYERS. 1 1/4" TOP COURSE MATERIAL OVER 1 1/4" BINDER COURSE MATERIAL.
- SUBBASE: 8" GRAVEL BORROW TYPE B (SEE NOTE 2).

NOTE: * AT DRIVEWAY CROSSINGS, PAVEMENT USING DRIVEWAY PAVEMENT.

PROPOSED SIDEWALK - CEMENT CONCRETE:

- SURFACE: 4" CEMENT CONCRETE.
- SUBBASE: 8" GRAVEL BORROW TYPE B (SEE NOTE 2).

PROPOSED DRIVEWAY PAVEMENT

- SURFACE: 3 1/2" HOT MIX ASPHALT PLACED IN TWO (2) LAYERS - 1 1/2" TOP COURSE MATERIAL OVER 2" BINDER COURSE MATERIAL.
- SUBBASE: 8" GRAVEL BORROW TYPE B (SEE NOTE 2).

PROPOSED WHEELCHAIR RAMP:

- SURFACE: 4" CEMENT CONCRETE (AIR ENTRAINED 4000 psi - 3/4 IN - 610) PLACED IN ONE (1) LAYER.
- SUBBASE: 8" GRAVEL BORROW TYPE B (SEE NOTE 2).

PROPOSED MILLING AND RESURFACING:

- SURFACE: 4" HOT MIX ASPHALT PLACED IN TWO (2) LAYERS - 1 3/4" MODIFIED TOP COURSE MATERIAL OVER 2 1/4" BINDER COURSE MATERIAL.

VARIABLE DEPTH LEVELING AND MILLING.

TACK COAT APPLIED AT THE RATE OF 0.07 GAL PER SQUARE YARD FOR MILLED SURFACES AND 0.05 GAL PER SQUARE YARD TO ALL SMOOTH SURFACES

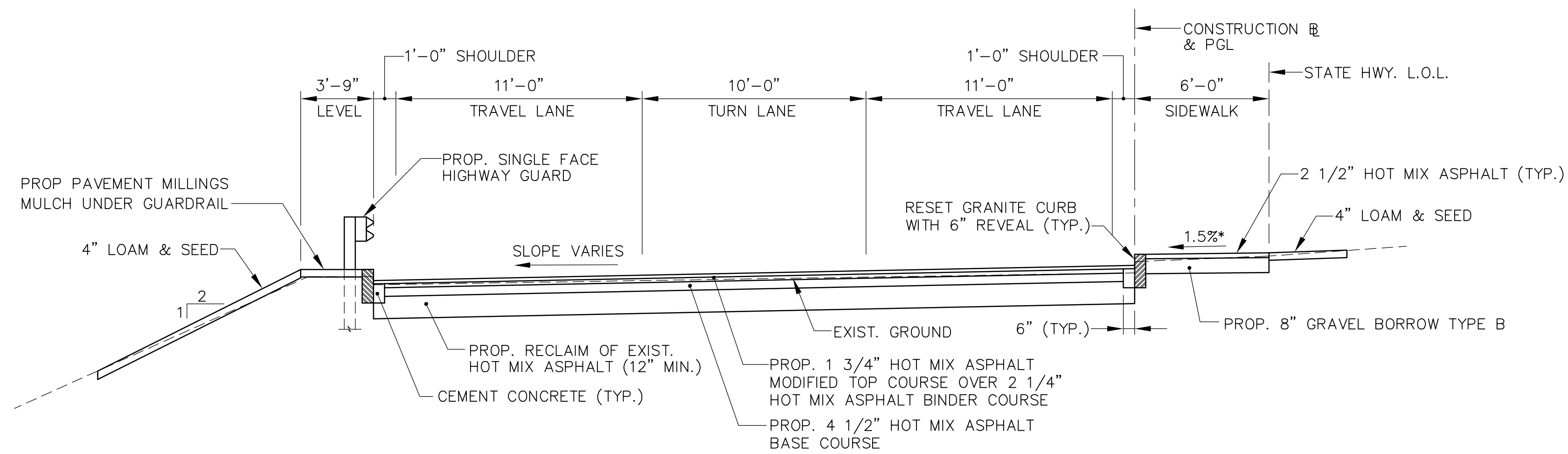
NOTES:

1. THE RECLAIM DEPTH SHALL BE THE EXISTING PAVEMENT THICKNESS "T" PLUS THE SUBBASE MATERIAL TO A DEPTH OF ONE HALF "T", THE CONTRACTOR SHALL TAKE A MINIMUM OF FOUR PAVEMENT CORES, ONE CORE ON EACH LEG OF THE INTERSECTION.
2. AFTER THE RECLAMATION OF THE STREETS IF THERE IS ANY EXCESS RECLAIM MATERIAL AVAILABLE IT MAY USED IN LIEU OF THE GRAVEL BORROW SUBBASE.
3. TOLERANCE FOR SIDEWALK SLOPE IS ± 0.5%.

**WELLESLEY
CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	7	72
PROJECT FILE NO. 604007			

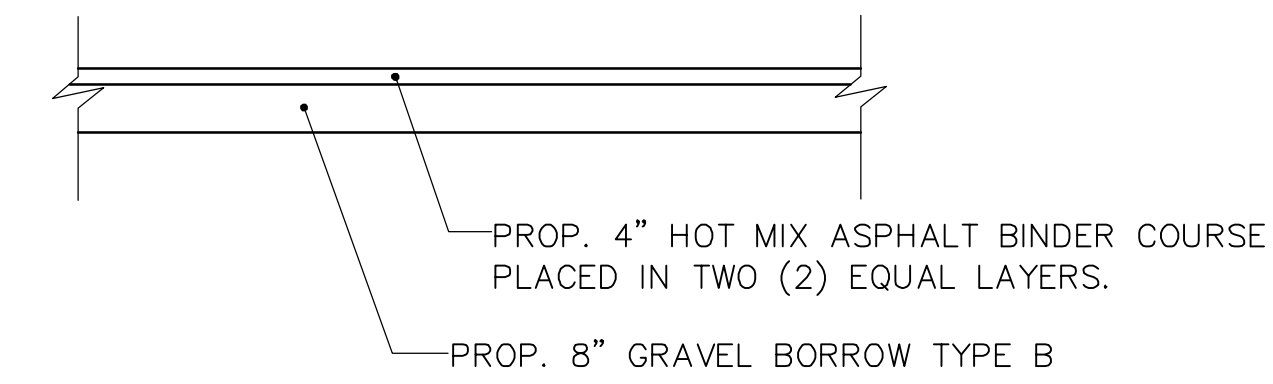
**TYPICAL SECTIONS
SHEET 2 OF 2**



WORCESTER STREET WEST

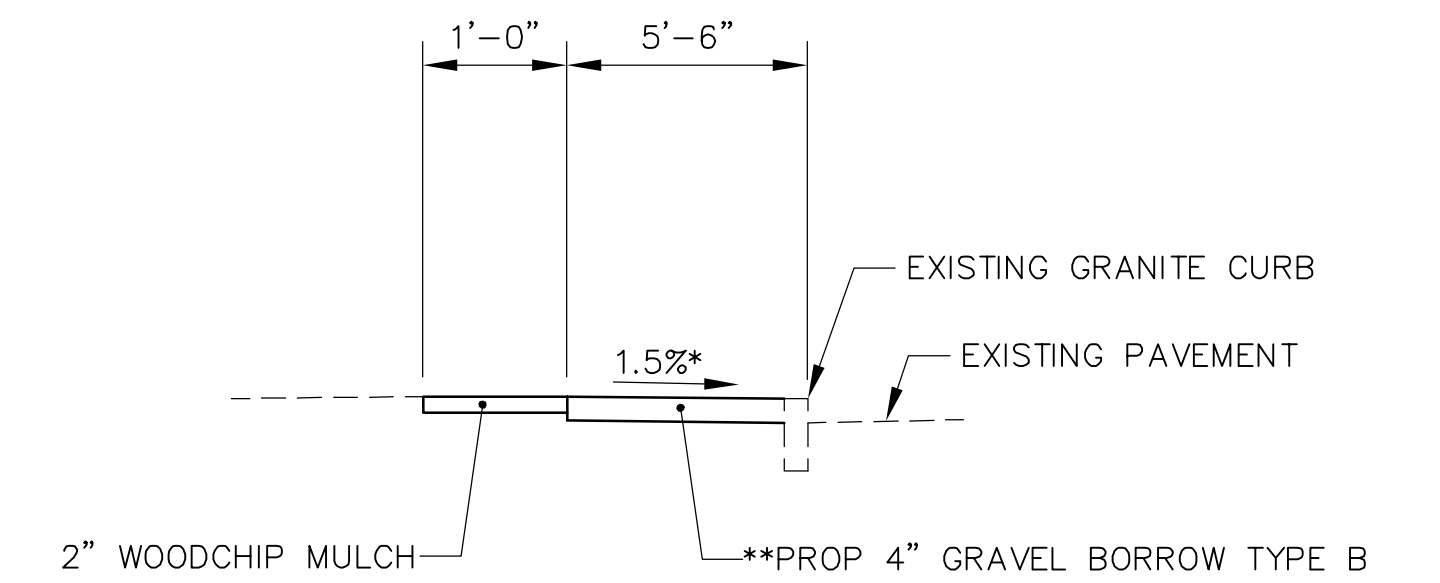
STA 28+00 TO 29+50
N.T.S.

NOTE: * TOLERANCE FOR CONSTRUCTION = ± 0.5%



TEMPORARY PAVEMENT SECTION

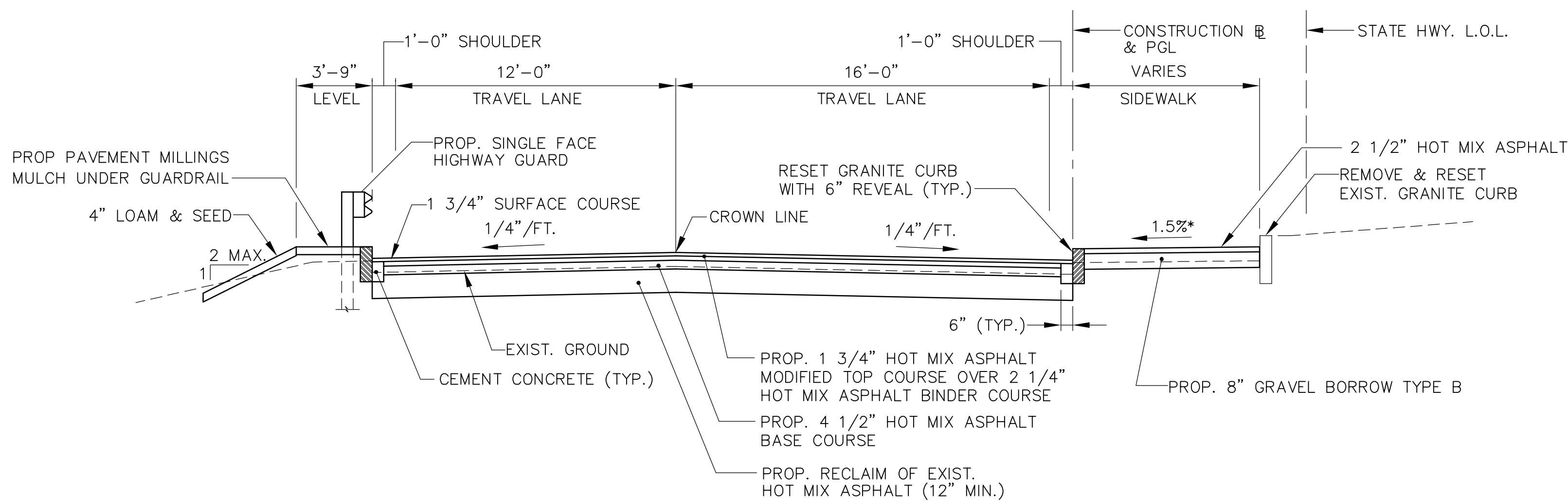
N.T.S.



TEMPORARY GRAVEL PEDESTRIAN PATH

N.T.S.

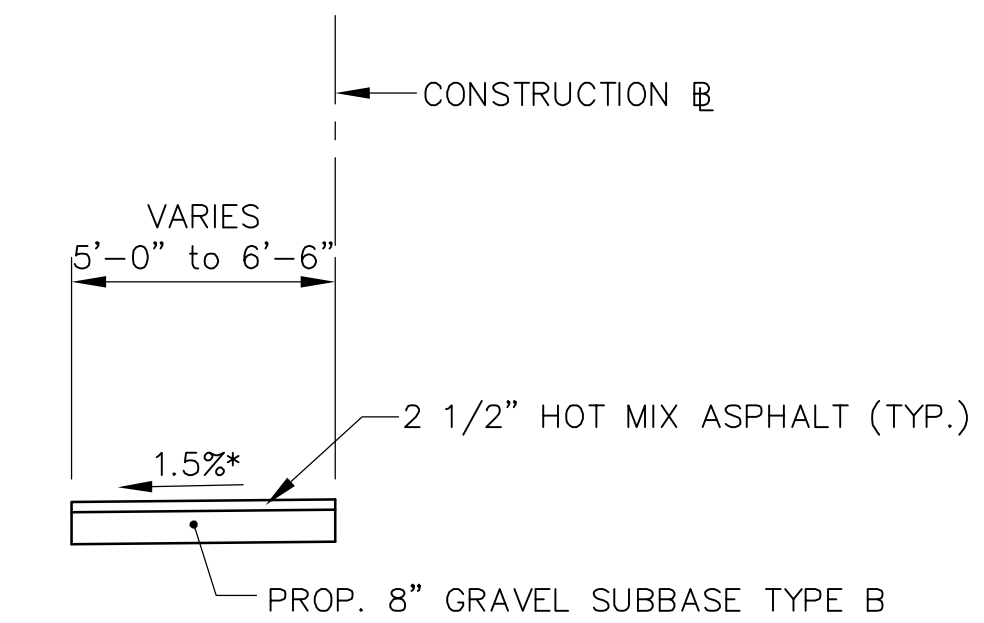
NOTE: ** COMPACT TO 95% MAX DRY DENSITY



WORCESTER STREET EAST

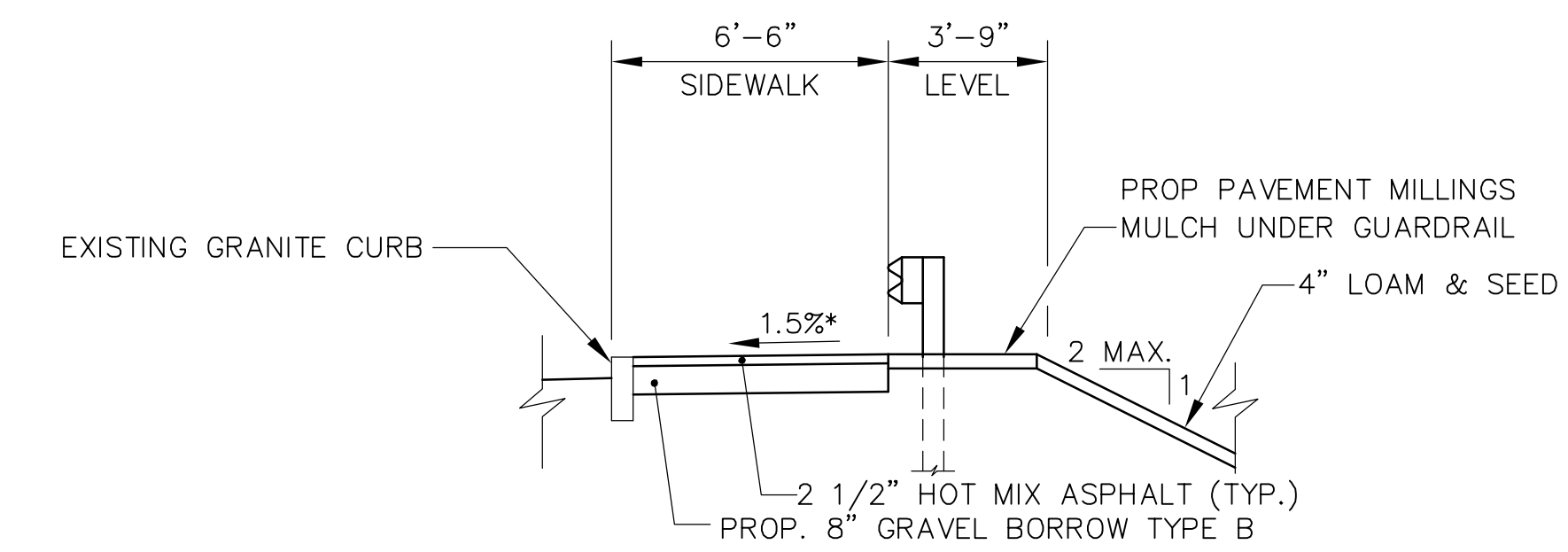
STA 40+48 TO 41+21
N.T.S.

NOTE: * TOLERANCE FOR CONSTRUCTION = ± 0.5%



SIDEWALK

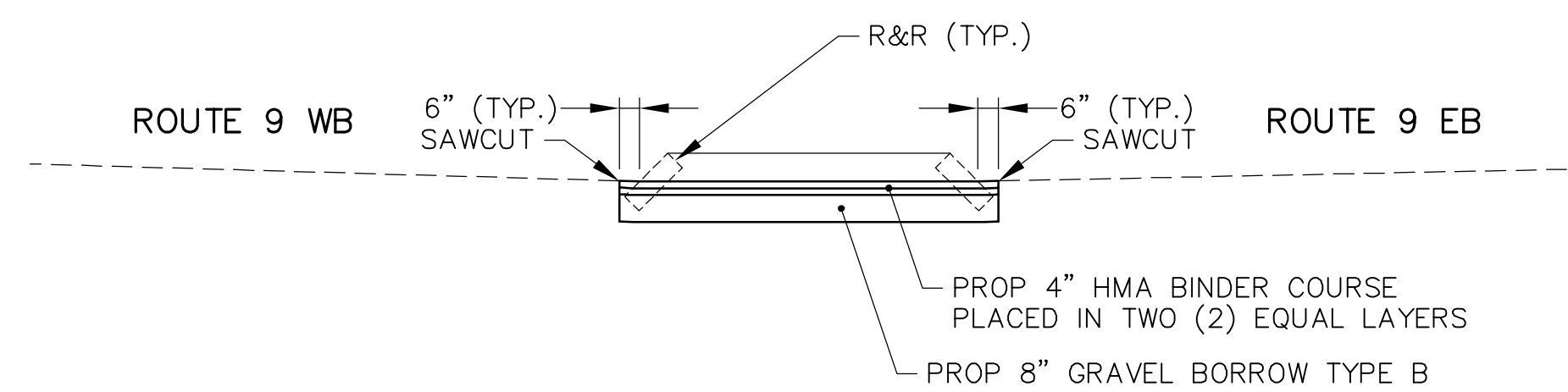
STA. 23+88 TO STA. 25+30



CEDAR STREET

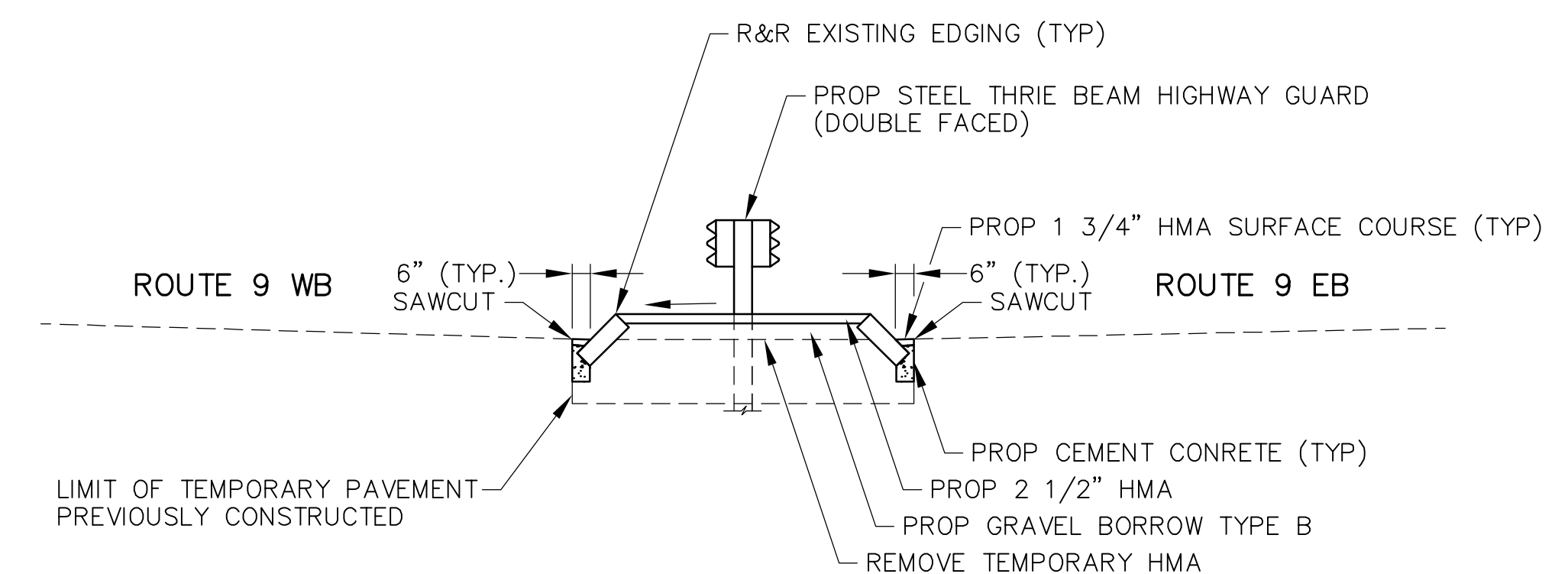
STA. 12+50 TO STA. 13+88, RT
N.T.S.

NOTE: * TOLERANCE FOR CONSTRUCTION = ± 0.5%



ROUTE 9 MEDIAN - TEMPORARY CONSTRUCTION

N.T.S.



ROUTE 9 MEDIAN - RECONSTRUCTED

N.T.S.

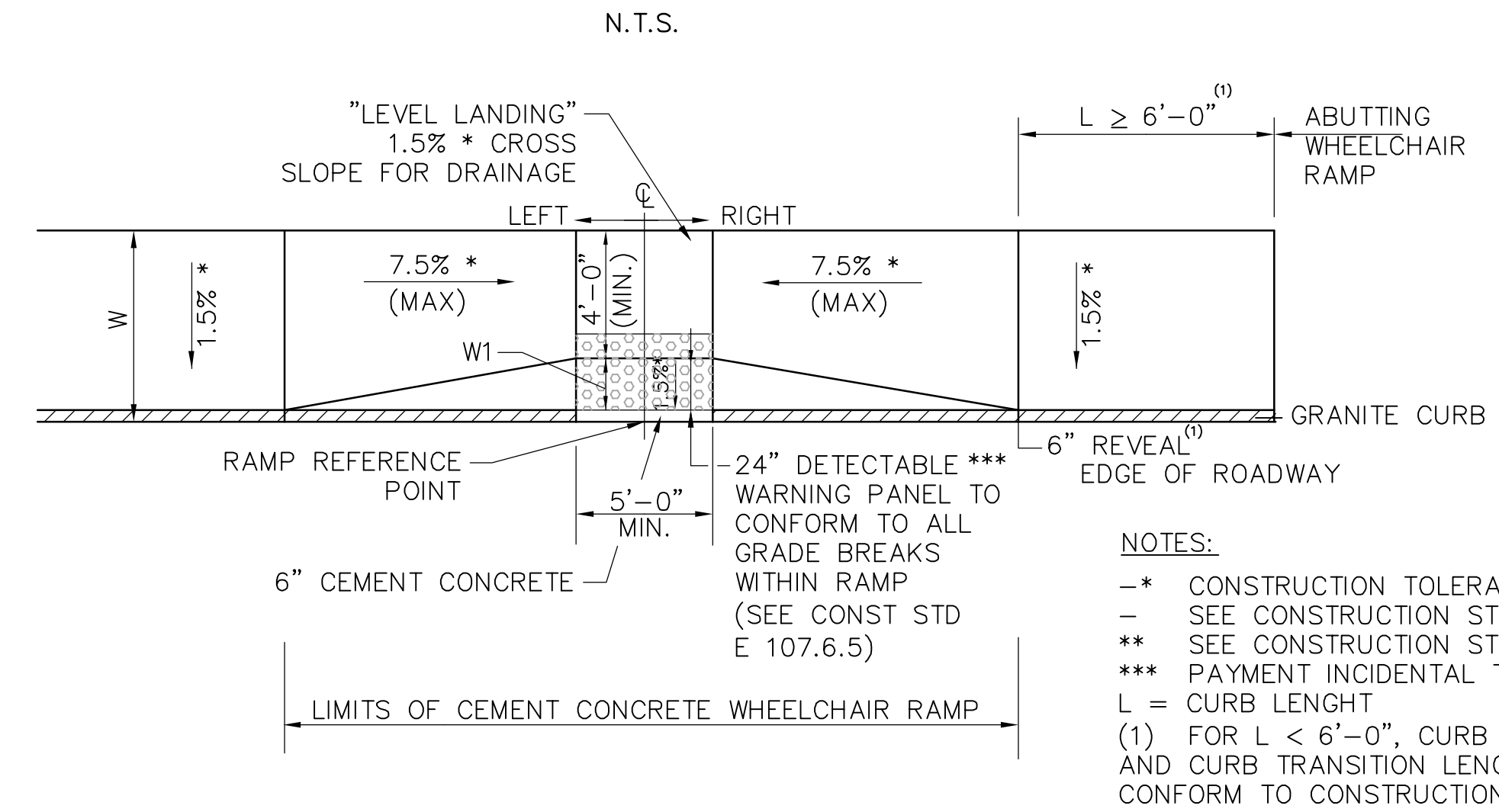
STYLE "A" - PARALLEL PERPENDICULAR

WCR #	BASELINE NAME	RAMP REFERENCE POINT		LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK (W)	WIDTH OF RAMP MIN 5'-0"	DEPTH OF LEVEL LANDING Min. 4'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH***	
		STATION	OFFSET						LEFT SIDE	RIGHT SIDE
1	CEDAR STREET	10+02.33	20.66' RT	2.7'	7.6'	5.0'	4.9'	0.85%	① 6.50'	② 7.67'
2	WORCESTER ST (EAST)	40+32.90	31.89' LT	2.9'	7.8'	5.0'	4.9'	0.80%	② 3.83'	① 6.50'
3	WORCESTER ST (EAST)	40+35.58	0.79' RT	3.2'	9.3'	5.0'	6.1'	4.10%	① 6.50'	② 7.50'
4	CEDAR STREET	9+28.58	19.00' RT	2.0'	6.0'	5.0'	4.0'	5.20%	② 6.50'	① 15.00'
5	CEDAR STREET	9+28.58	19.00' LT	2.0'	6.0'	5.0'	4.0'	4.60%	① 15.00'	① 6.50'
6	WORCESTER ST (WEST)	29+49.26	0.0' RT	2.0'	6.0'	5.0'	4.0'	4.35%	① 15.00'	① 6.50'
7	WORCESTER ST (WEST)	29+46.90	34.24' LT	2.5'	6.7'	5.0'	4.0'	4.60%	① 6.50'	② 7.50'
8	CEDAR STREET	10+08.57	23.62' LT	2.0'	6.0'	5.0'	4.0'	1.00%	② 6.50'	① 7.67'
9*	CEDAR STREET	12+20.00	19.75' RT	2.0'	6.0'	5.0'	4.0'	4.96%	① 6.50'	① 15.00'
10*	CEDAR STREET	12+20.00	19.87' LT	2.0'	6.0'	5.0'	4.0'	4.96%	① 15.00'	① 6.50'

* TEMPORARY WHEELCHAIR RAMPS (SEE SHEET 32)
 *** FACING RAMP FROM ROADWAY

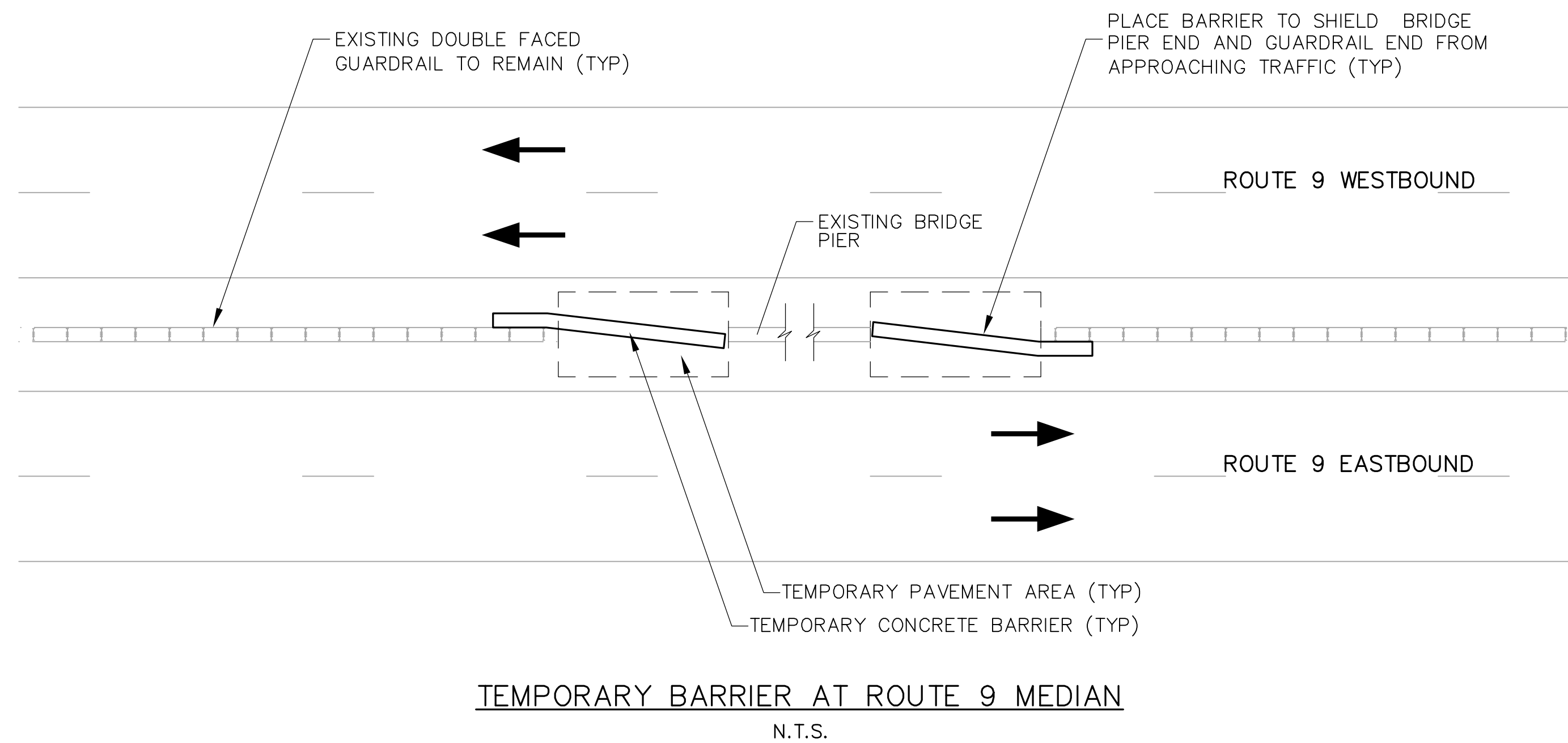
① REVEAL = 6"
 ② REVEAL = 3"

STYLE "A" - PARALLEL PERPENDICULAR



NOTES:
 - * CONSTRUCTION TOLERANCE ± 0.5%
 - SEE CONSTRUCTION STANDARD E 107.2.0
 ** SEE CONSTRUCTION STANDARD E 107.9.0
 *** PAYMENT INCIDENTAL TO CEM CONC WCR
 L = CURB LENGTH
 (1) FOR L < 6'-0", CURB REVEAL SHALL BE 3"
 AND CURB TRANSITION LENGTH SHALL
 CONFORM TO CONSTRUCTION STANDARD E 107.6.3

WELLESLEY CEDAR STREET OVER ROUTE 9			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	8	72
PROJECT FILE NO. 604007			
CONSTRUCTION DETAILS SHEET 1 OF 3			



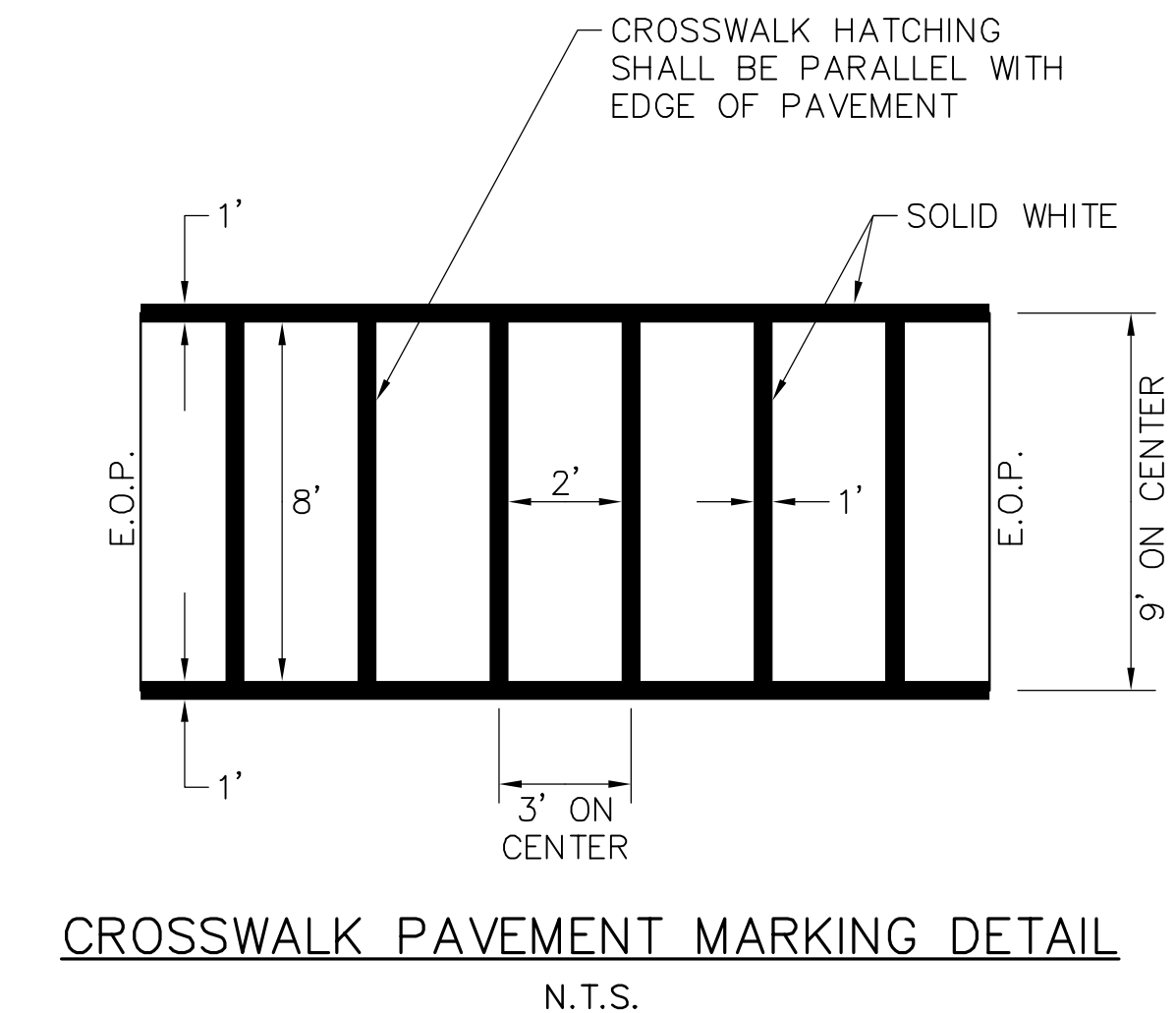
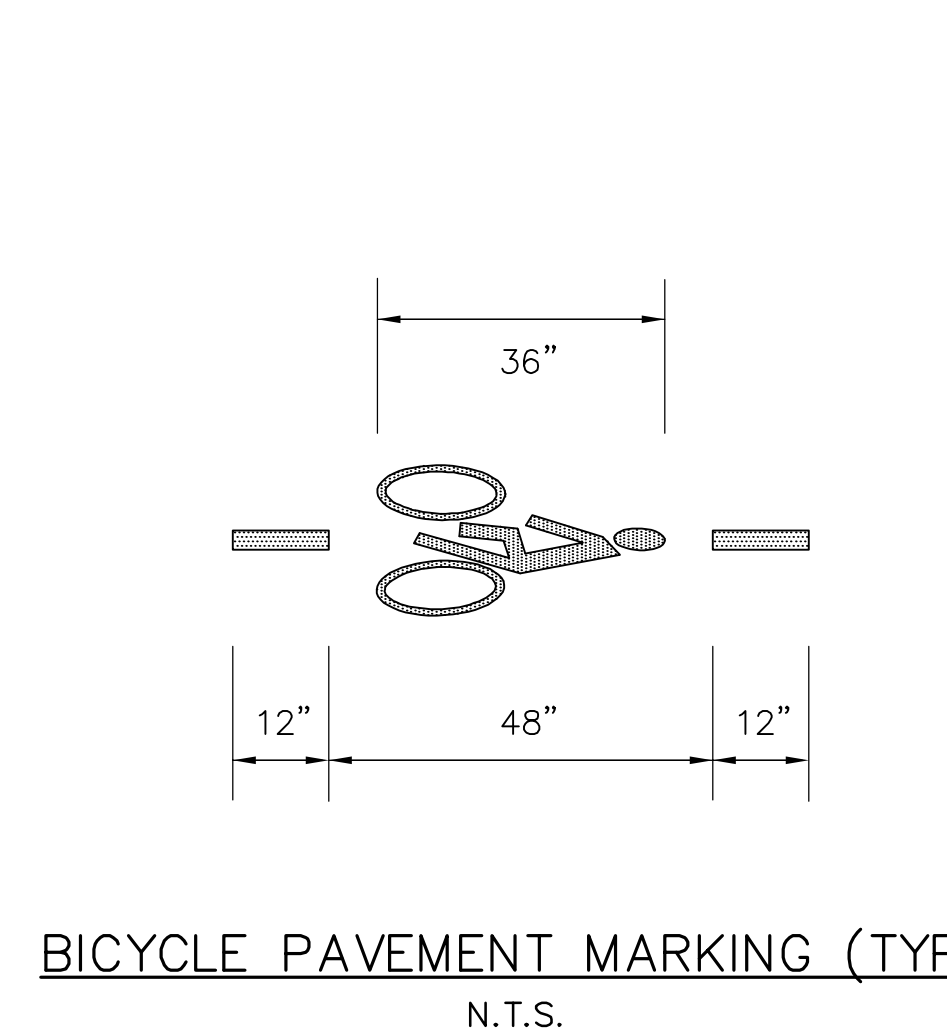
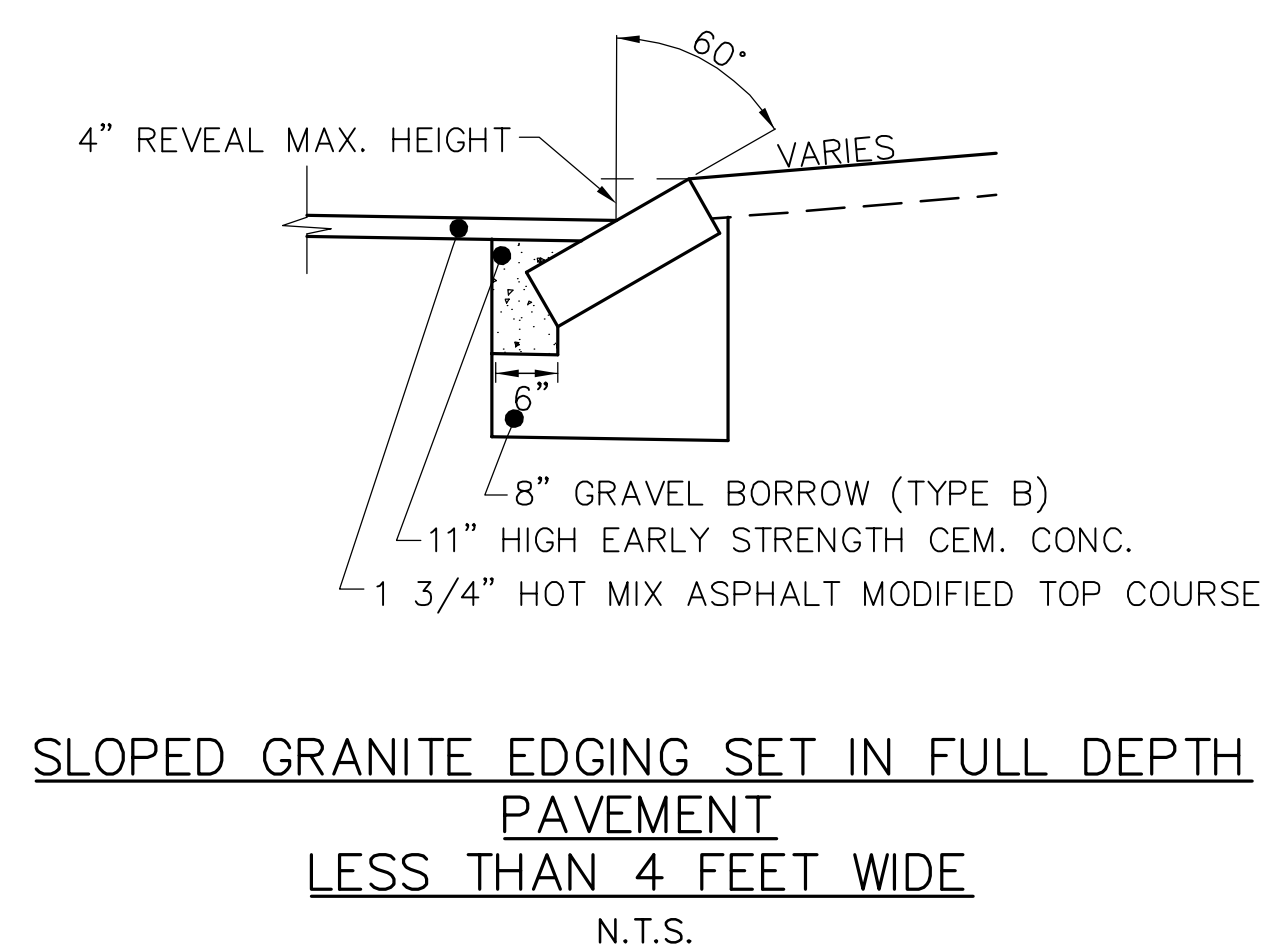
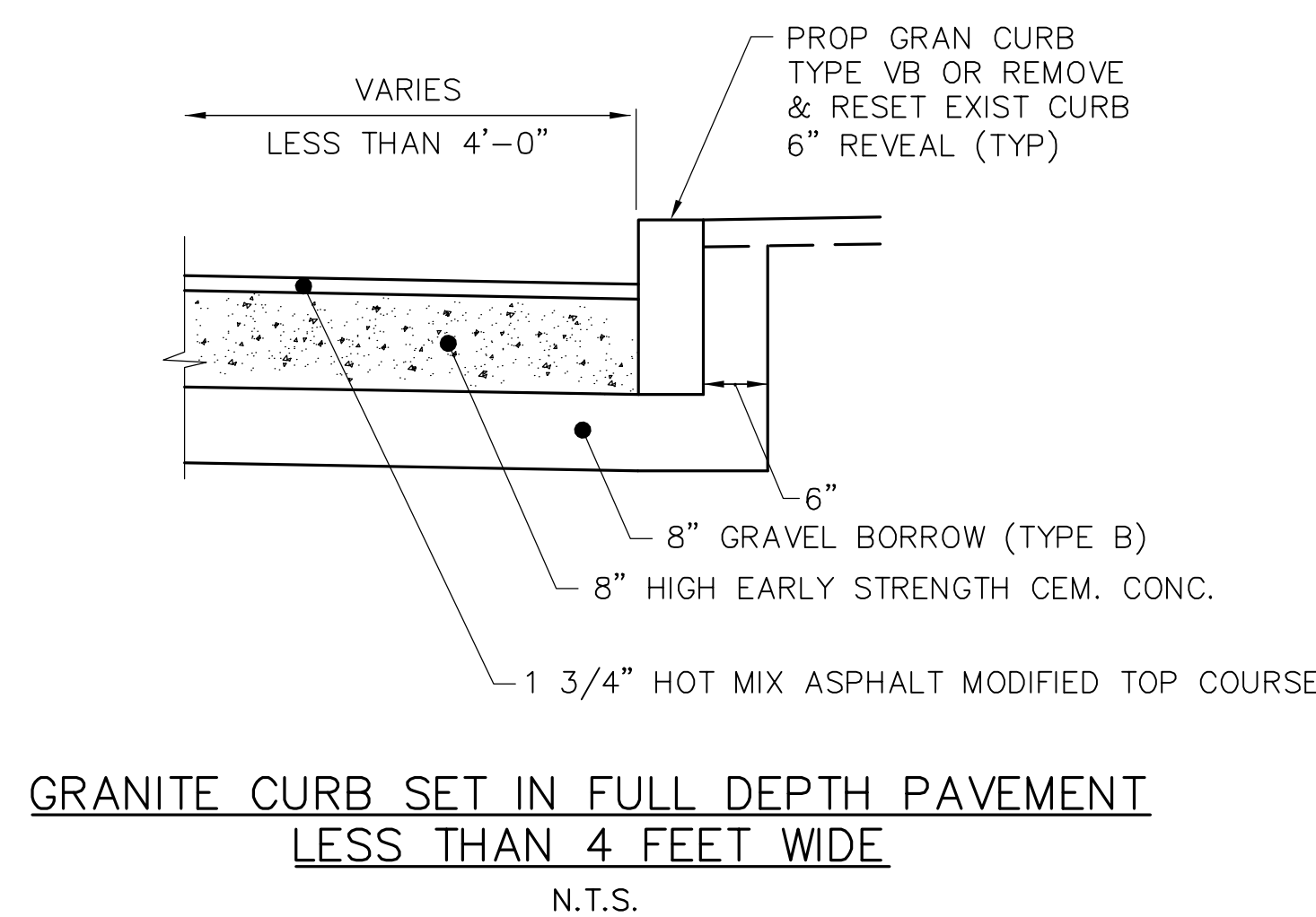
HIGHWAY GUARD DETAILS:

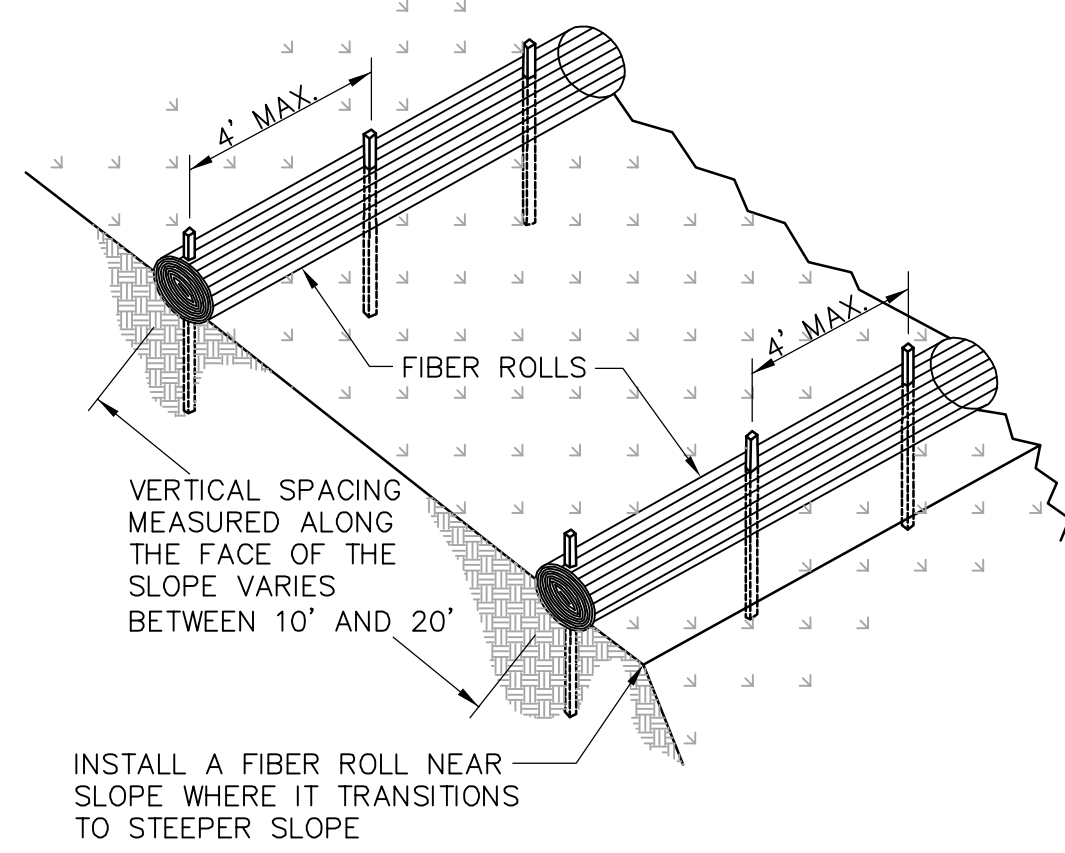
ROUTE 9 MEDIAN - WEST OF BRIDGE PIER
 50 FEET TO 10 FEET WEST OF BRIDGE PIER RESET GUARDRAIL
 ROUTE 9 MEDIAN - EAST OF BRIDGE PIER
 120 FEET TO 10 FEET EAST OF BRIDGE PIER RESET GUARDRAIL

CURB TRANSITION

ID #	BASELINE NAME	BEGIN TRANSITION*		END TRANSITION*		TRANSITION LENGTH
		STATION	OFFSET	STATION	OFFSET	
1	CEDAR STREET	10+22.45	20.00' LT	10+18.35	20.34' LT	4.11'
2	CEDAR STREET	10+17.80	19.00' RT	10+11.44	19.01' RT	6.35'
3	CEDAR STREET	11+35.83	19.00' RT	11+47.83	19.00' RT	12.00'
4	CEDAR STREET	11+57.46	20.00' LT	11+69.46	20.00' LT	12.00'

* BEGINNING SIDE REFERS TO 8" REVEAL, ENDING SIDE REFERS TO 6" REVEAL.





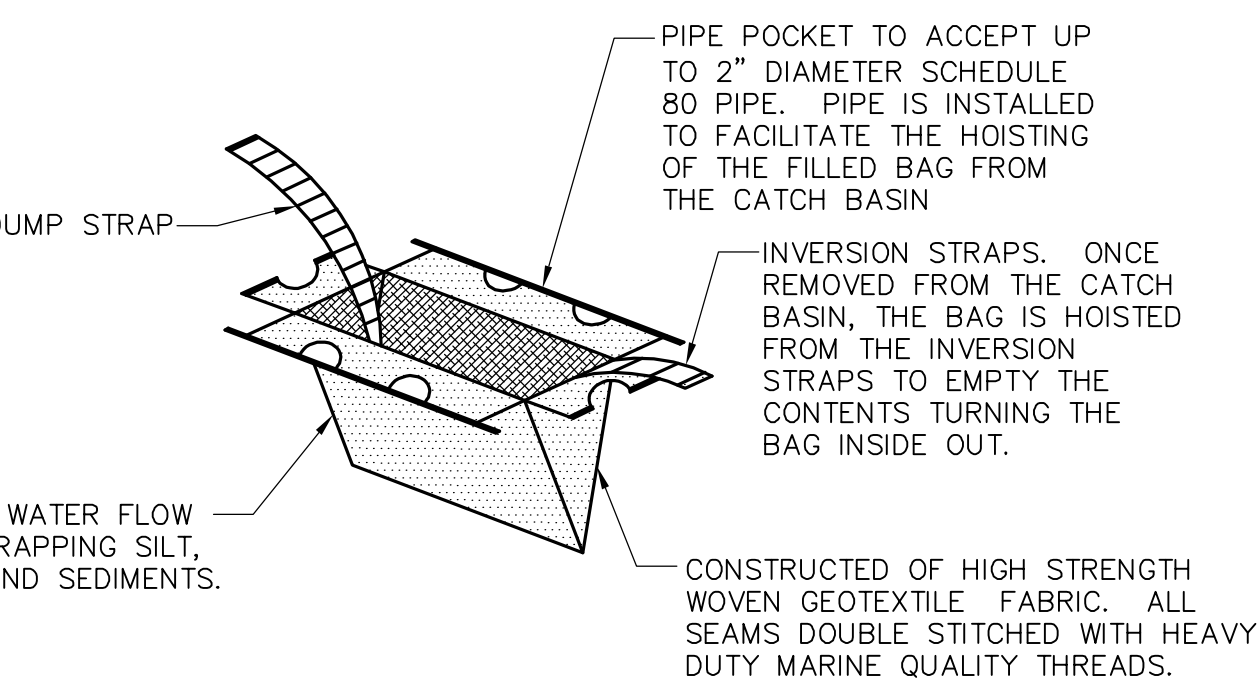
TYPICAL FIBER ROLL SLOPE INSTALLATION

NOTES:

1. PREFABRICATED ROLL TO CONSIST OF WOOD EXCELSIOR, RICE, WHEAT STRAW OR COCONUT FIBERS.
2. FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 2"-4" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.
3. WOOD STAKES (24" MIN. IN LENGTH) SHALL BE SPACED 4' MAXIMUM ON CENTER.
4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 3/4 OF ROLL HEIGHT

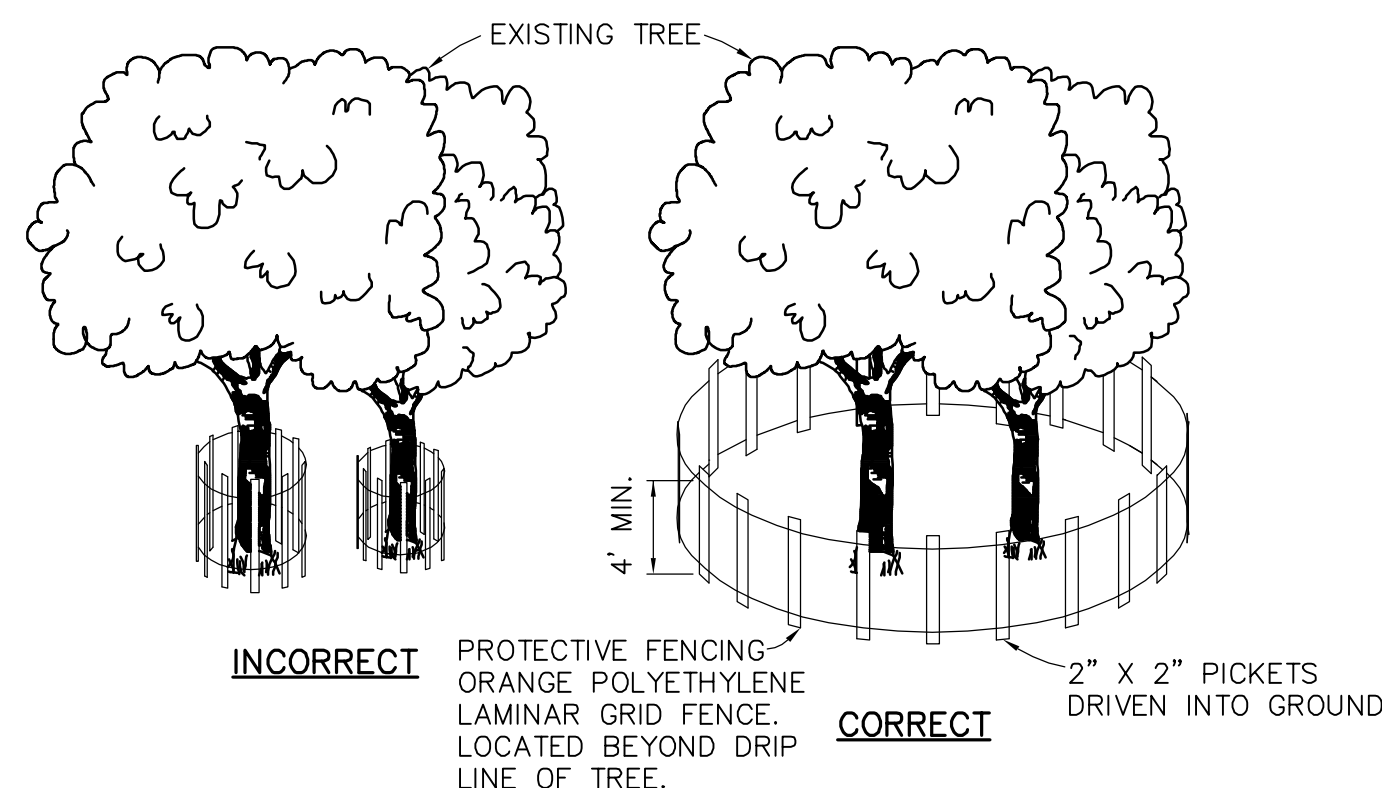
TYPICAL FIBER ROLL INSTALLATION

N.T.S.



GEOTEXTILE CATCH BASIN INLET PROTECTION

N.T.S.

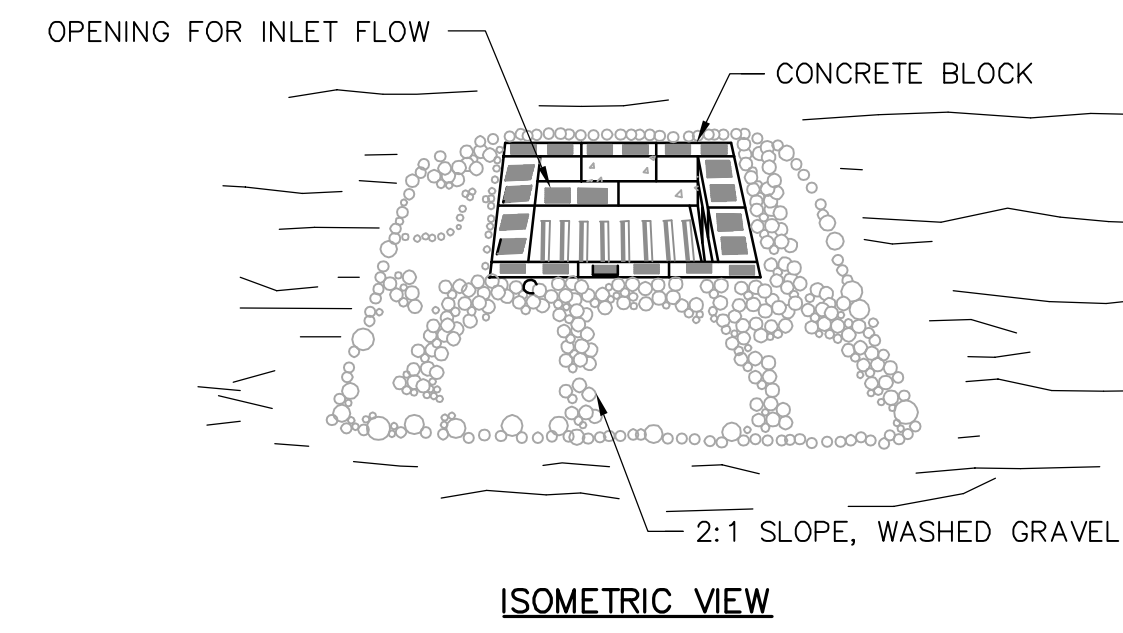


NOTES:

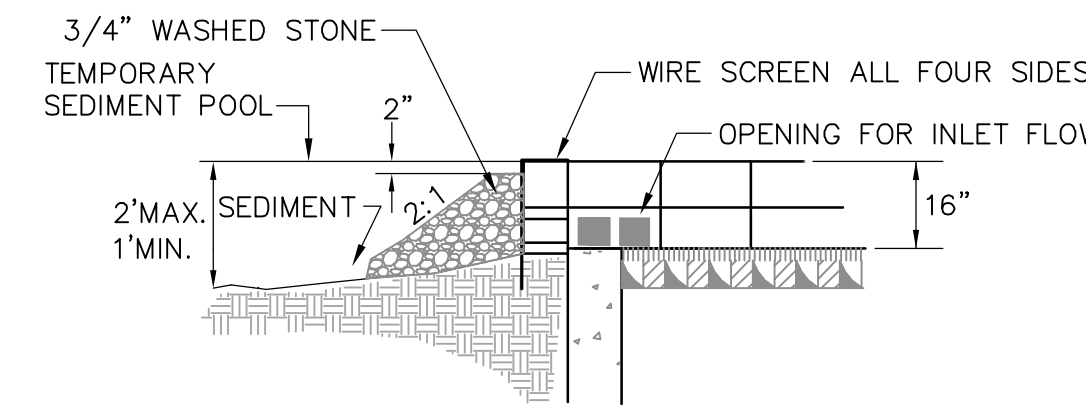
1. TREE PROTECTION BARRIERS MUST BE PLACED AROUND TREES TO BE RETAINED WITHIN AN AREA WHERE LAND ALTERATION AND CONSTRUCTION ACTIVITIES WILL OCCUR. TREES TO REMAIN SHALL BE INDICATED ON THE PLANS.
2. TREE PROTECTION BARRIER MUST REMAIN IN PLACE UNTIL GRADING AND CONSTRUCTION ACTIVITY IS COMPLETE OR UNTIL COMMENCEMENT OF FINISH GRADING AND SODDING.
3. BARRIERS SHALL BE PLACED AROUND TREES AT THE DRIPLINE EXCEPT WHERE LAND ALTERATION OR CONSTRUCTION ACTIVITIES ARE APPROVED WITHIN THE DRIPLINE.
4. THE DRIPLINE OF A TREE IS THE IMAGINARY VERTICAL LINE THAT EXTENDS DOWNWARD FROM THE OUTERMOST TIPS OF THE TREE'S BRANCHES TO THE GROUND.
5. AREAS SURROUNDED BY THE TREE PROTECTION BARRIERS SHALL BE PROTECTED FROM VEGETATION REMOVAL, PLACEMENT OF SOIL, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND.
6. ALL TREE ROOTS WITHIN AREA TO BE GRADED AND ORIGINATING FROM A PROTECTED TREE SHALL BE SEVERED CLEANLY AT THE LIMITS OF THE PROTECTED AREA.
7. ALL TREE PRUNING AND TRIMMING ON ANY TREE TO BE RETAINED SHALL BE PERFORMED BY AN ARBORIST CERTIFIED BY THE AMERICAN SOCIETY OF ARBORICULTURE (ASA).
8. 2'x2' TREE PROTECTION SIGNS SPACED A MINIMUM OF ON SIGN EVERY 300' SHALL CONTAIN THE WORDING "TREE PROTECTION ZONE - KEEP OUT".

TREE PROTECTION BARRIER

N.T.S.



ISOMETRIC VIEW



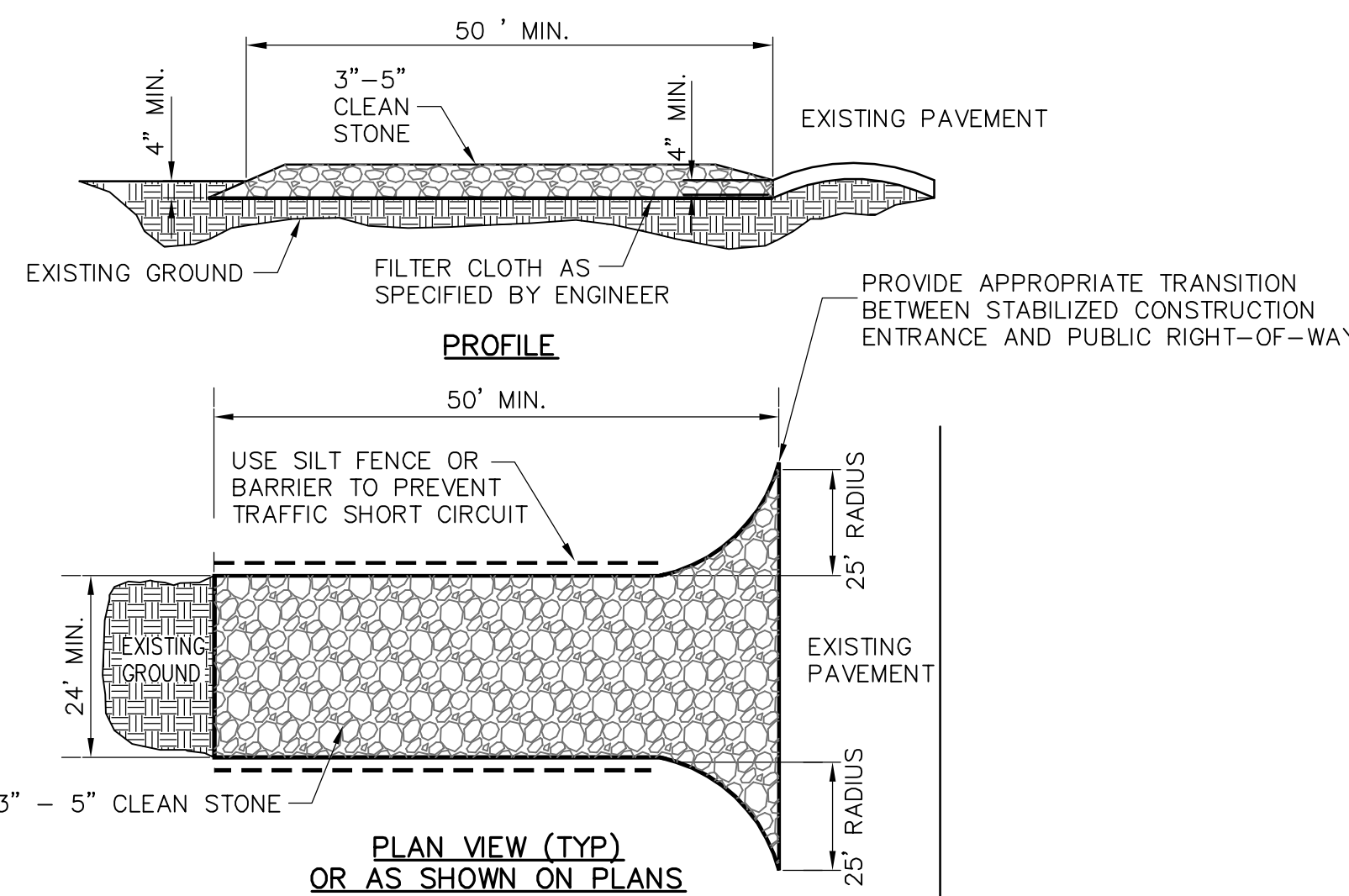
SECTION

NOTES:

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE ON THE BOTTOM ROW TO ALLOW INLET FLOW. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2" BELOW THE CREST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF THE BLOCK AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. IF NEEDED, GIVE LATERAL SUPPORT TO SUBSEQUENT ROWS BY PLACING 2x4 WOOD STUDS THROUGH BLOCK OPENINGS.
2. CAREFULLY FIT HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2" OPENING OVER ALL BLOCK OPENING TO HOLD GRAVEL IN PLACE.
3. USE CLEAN GRAVEL, 1/2"-TO 3/4"- IN DIAMETER, PLACED 2" BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND SMOOTH IT TO AN EVEN GRADE.

BLOCK AND GRAVEL CATCH BASIN INLET PROTECTION

N.T.S.

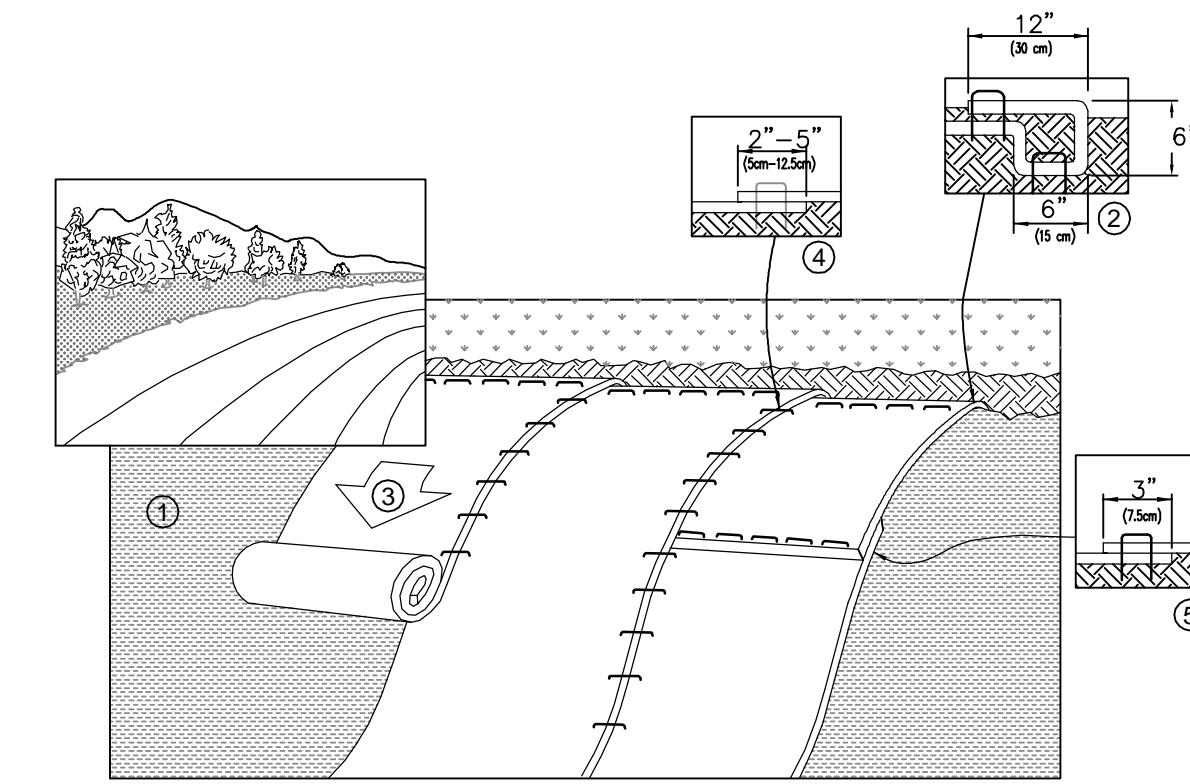


NOTES:

1. STONE - USE COARSE AGGREGATE (3"-5" STONE).
2. LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.
6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO ADJACENT PAVED ROAD SURFACES MUST BE REMOVED IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE / EXIT

N.T.S.

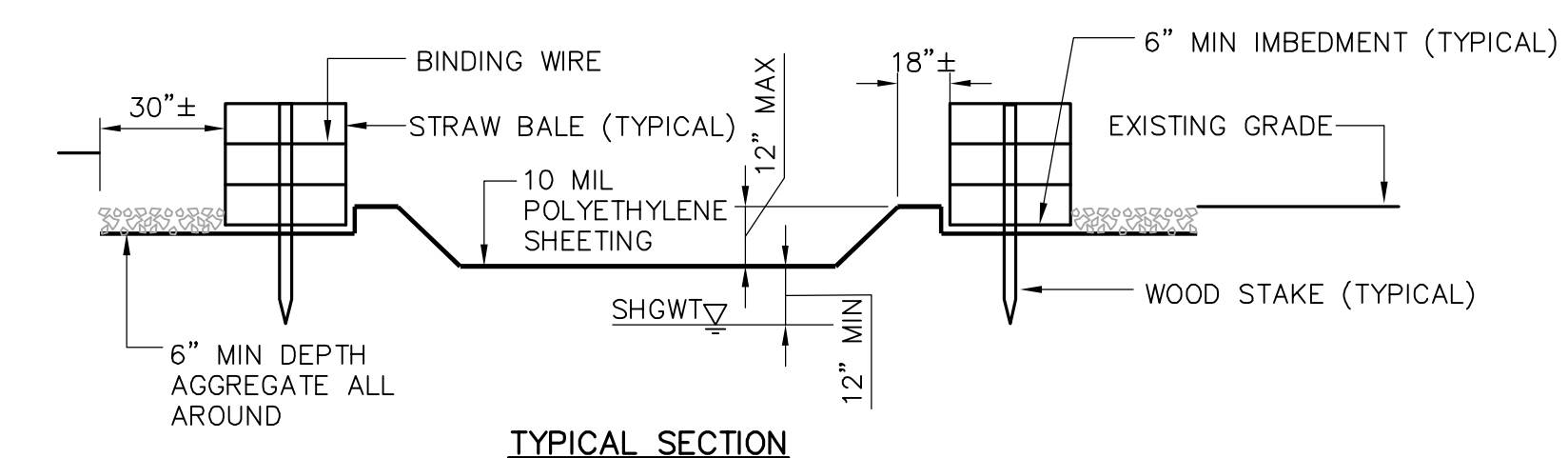
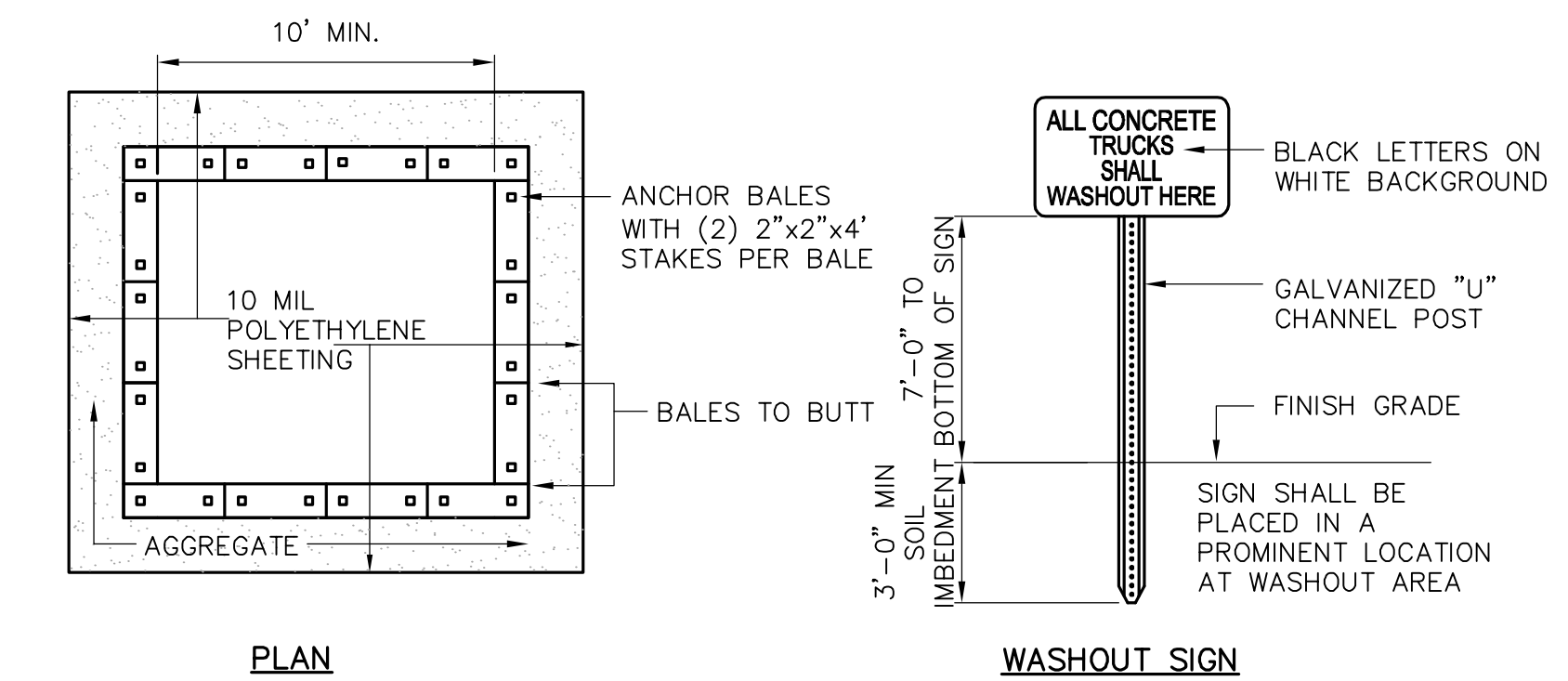


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACK FILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO PREPARED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF THE BLANKET BACK OVER SEED AND SOIL. SECURE BLANKET OVER SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS DOWN ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH THE APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.
6. EROSION CONTROL BLANKETS SHALL BE INSTALLED FOLLOWING MANUFACTURERS SPECIFICATIONS.

NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

EROSION CONTROL BLANKET DETAIL FOR SLOPE INSTALLATION

N.T.S.



NOTES:

1. CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
2. CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
3. WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
4. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
5. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
6. AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

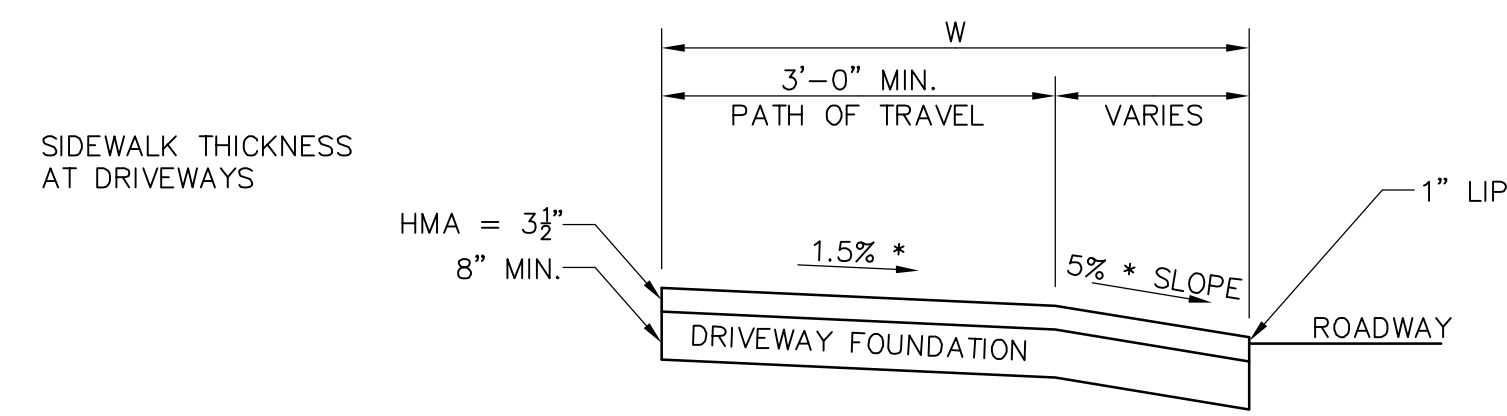
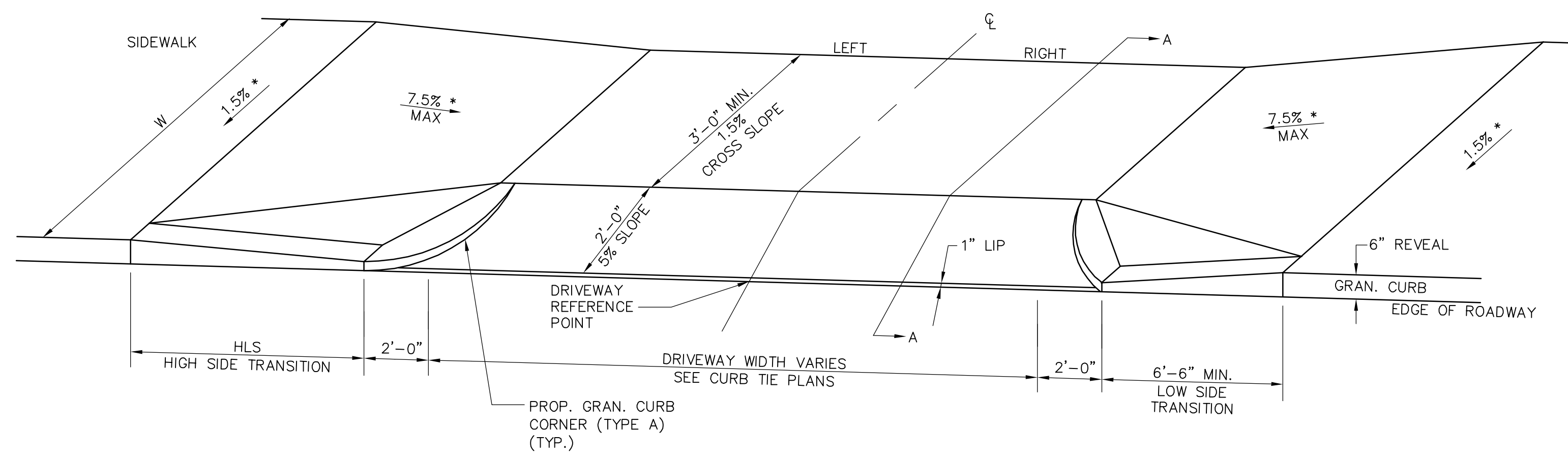
CONCRETE WASHOUT AREA DETAIL

N.T.S.

WELLESLEY
CEDAR STREET OVER ROUTE 9

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	10	72
PROJECT FILE NO.		604007	

CONSTRUCTION DETAILS
SHEET 3 OF 3



LEGEND
HSL = HIGH SIDE TRANSITION LENGTH
W = SIDEWALK WIDTH
* = TOLERANCE FOR CONSTRUCTION 0.5%
HMA = HOT MIX ASPHALT

SECTION A-A

DRIVEWAY NO.	BASELINE NAME	DRIWEWAY REFERENCE POINT		WIDTH OF DRIVEWAY	WIDTH OF SIDEWALK AT DRIVEWAY	PATH OF TRAVEL MIN 3'-3"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH***		DRIVEWAY SLOPE
		STATION	OFFSET					LEFT SIDE	RIGHT SIDE	
1	WORCESTER ST (WEST)	28+59.91	0.00' RT	46.2'	6.0'	4.0'	7.28%	15.00'	NA	5.0%

DRIVEWAY WITH CURB RETURNS
N.T.S.

HIGHWAY GUARD DETAILS

STA 28+00.00 LT TO STA. 29+14.84 LT
 STA 29+14.84 LT TO STA. 29+22.08 LT
 STA 29+22.08 LT TO BRIDGE LT

STEEL W BEAM HIGHWAY GUARD (SINGLE FACED) (CONNECT TO EXISTING GUARDRAIL)
 STEEL HIGHWAY GUARD TRANSITION BEAM
 BRIDGE RAIL TO HIGHWAY GUARDRAIL TRANSITION

BRIDGE LT TO STA. 40+69.53 LT
 STA 40+69.53 LT TO STA. 40+77.00 LT
 STA 40+77.00 LT TO STA. 41+21.00 LT

BRIDGE RAIL TO HIGHWAY GUARDRAIL TRANSITION
 STEEL HIGHWAY GUARD TRANSITION BEAM
 STEEL W BEAM HIGHWAY GUARD (SINGLE FACED) (CONNECT TO EXISTING GUARDRAIL)

SEE SHEET 8 FOR ROUTE 9 MEDIAN GUARDRAIL NOTES.

DRAINAGE DETAILS

SEE BELOW

WATER SUPPLY DETAILS

SEE BELOW

TRAFFIC SIGNAL CONDUIT

SEE SHEET NO. 20

**WELLESLEY
 CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	11	72
PROJECT FILE NO. 604007			

**CONSTRUCTION PLANS
 SHEET 1 OF 2**

CURB CURVE DATA

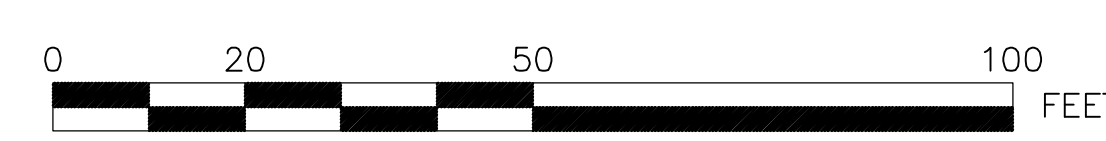
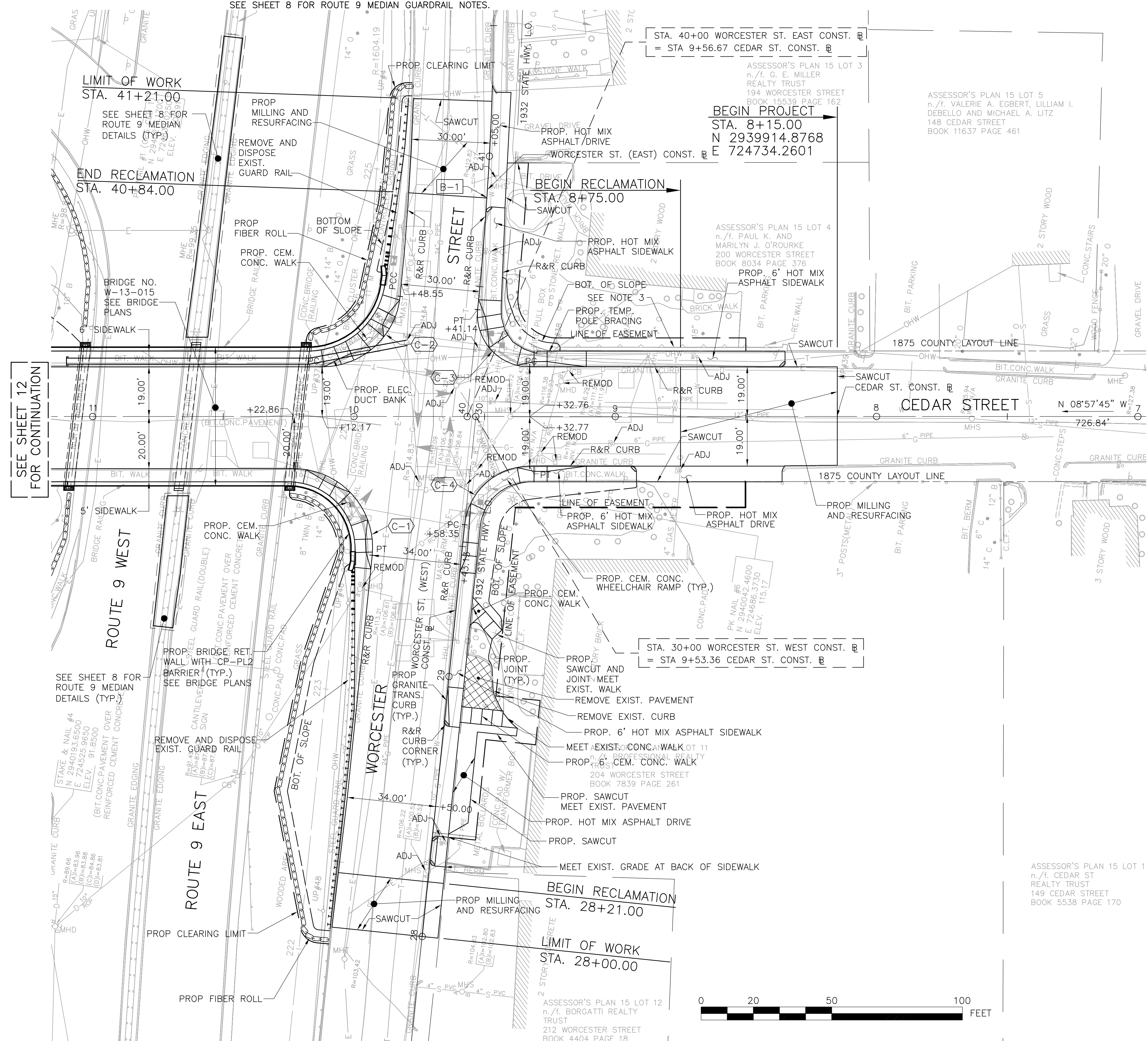
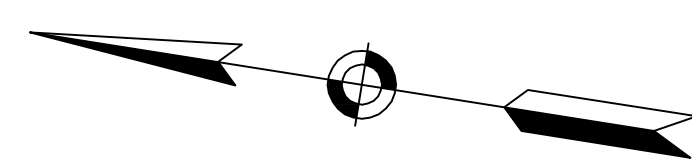
CURVE NO.	RADIUS	Δ	L	T
C-1	30.00'	95°-53'-22"	50.21'	33.25'
C-2	30.00'	84°-16'-17"	44.12'	27.14'
C-3	20.00'	95°-34'-46"	33.36'	22.05'
C-4	25.00'	84°-06'-38"	36.70'	22.55'

CONSTRUCTION B CURVE DATA

CURVE NO.	RADIUS	Δ	L	T
B-1	1,200.00'	9°-30'-18"	199.07'	99.77'

GENERAL NOTES:

- INSTALL CATCH BASIN FILTER BAGS IN CEDAR STREET AND WORCESTER STREET CATCH BASINS.
- MAINTAIN FILTER BAGS DURING CONSTRUCTION AND REMOVE FILTER BAGS AND ACCUMULATED DEBRIS FROM CATCH BASINS AT CONCLUSION OF THE WORK.
- DRILL AND INSERT FIVE (5) NEW PVC WEEP HOLES AT PROP SIDEWALK GRADE SPACED TO APPROXIMATELY MATCH THE EXISTING WEEP HOLE SPACING. REMOVE AND PLUG EXIST WEEP HOLES



FOR PROFILES: SEE SHEETS NOS. 13 AND 14

HIGHWAY GUARD DETAILS

BRIDGE RT TO STA. 11+50.96 RT
STA 11+54.08 RT
STA 11+66.47 RT
STA 11+66.47 RT TO STA. 13+86.95 RT
STA 13+86.95 RT

BRIDGE RAIL TO HIGHWAY GUARDRAIL TRANSITION (MODIFIED 14'-4 1/2" LENGTH)
STEEL THRIE BEAM TERMINAL SECTION (SINGLE FACED)
STEEL W BEAM TERMINAL SECTION (SINGLE FACED)
STEEL W BEAM HIGHWAY GUARD (SINGLE FACED)
STEEL W BEAM TERMINAL SECTION (SINGLE FACED)

DRAINAGE DETAILS

NONE

WATER SUPPLY DETAILS

NONE

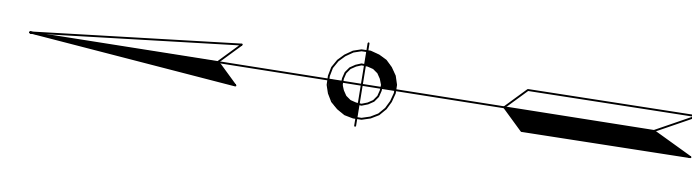
TRAFFIC SIGNAL CONDUIT

NONE

**WELLESLEY
CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	12	72
PROJECT FILE NO. 604007			

**CONSTRUCTION PLANS
SHEET 2 OF 2**



SEE SHEET 8 FOR ROUTE 9 MEDIAN GUARDRAIL NOTES.

1932 STATE HWY. L.O. LINE

**LIMIT OF WORK
STA. 25+27.14
SIDEWALK**

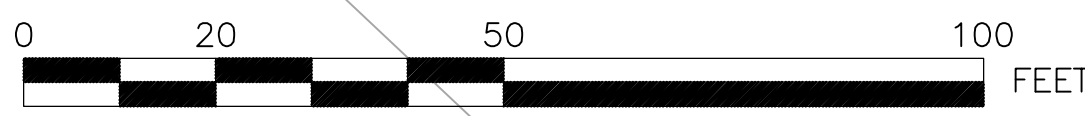
**END PROJECT
STA. 12+50.00
N 2940344.5658
E 724666.4927**

**END RECLAMATION
STA. 11+54.00**

ROUTE 9 WEST
ROUTE 9 EAST

SEE SHEET 11
FOR CONTINUATION

CEDAR STREET



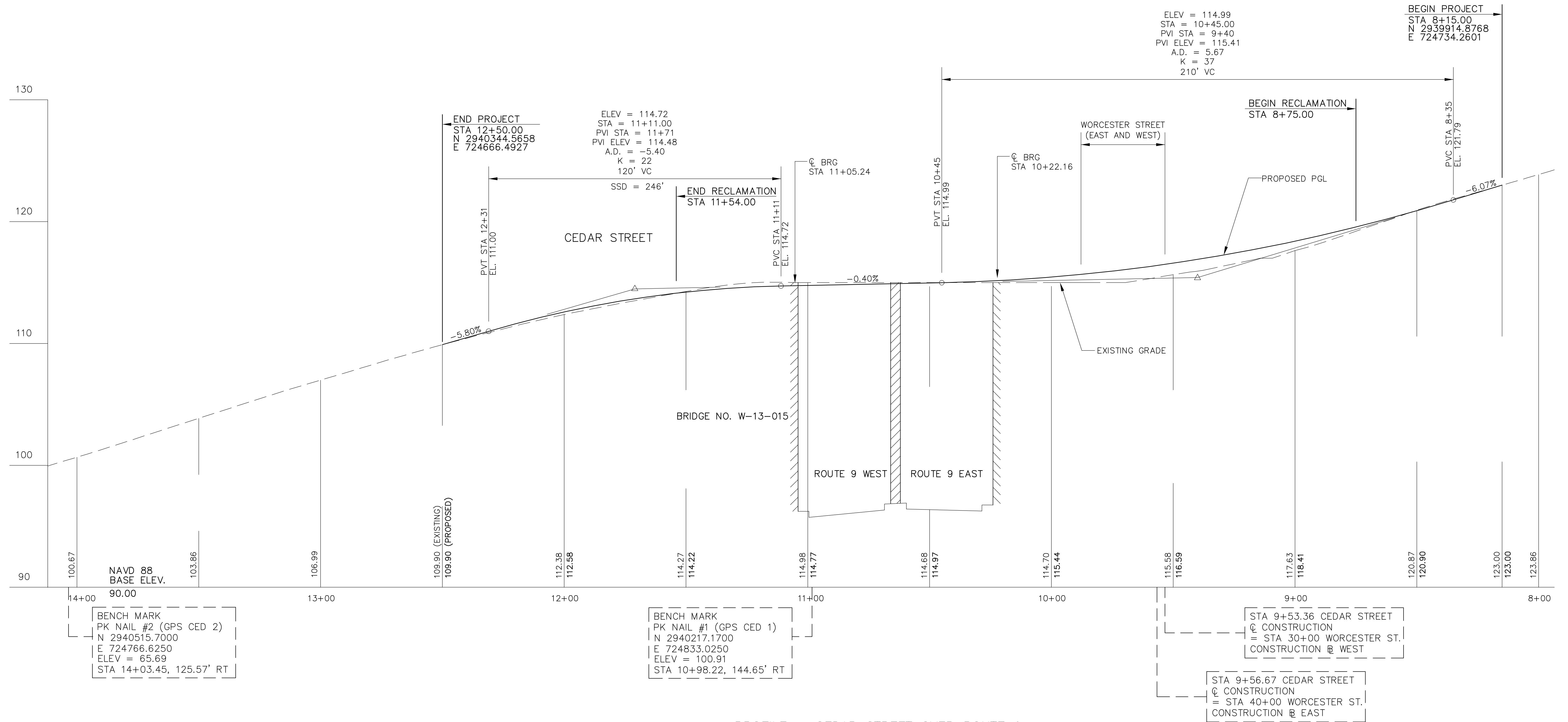
1932 STATE HWY. L.O. LINE

FOR PROFILE: SEE SHEET NO. 13

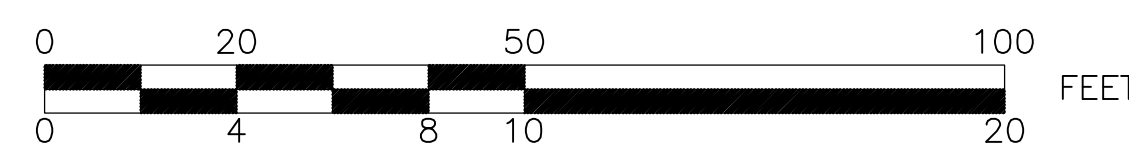
**WELLESLEY
CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	13	72
PROJECT FILE NO. 604007			

PROFILE - CEDAR STREET



PROFILE - CEDAR STREET OVER ROUTE 9

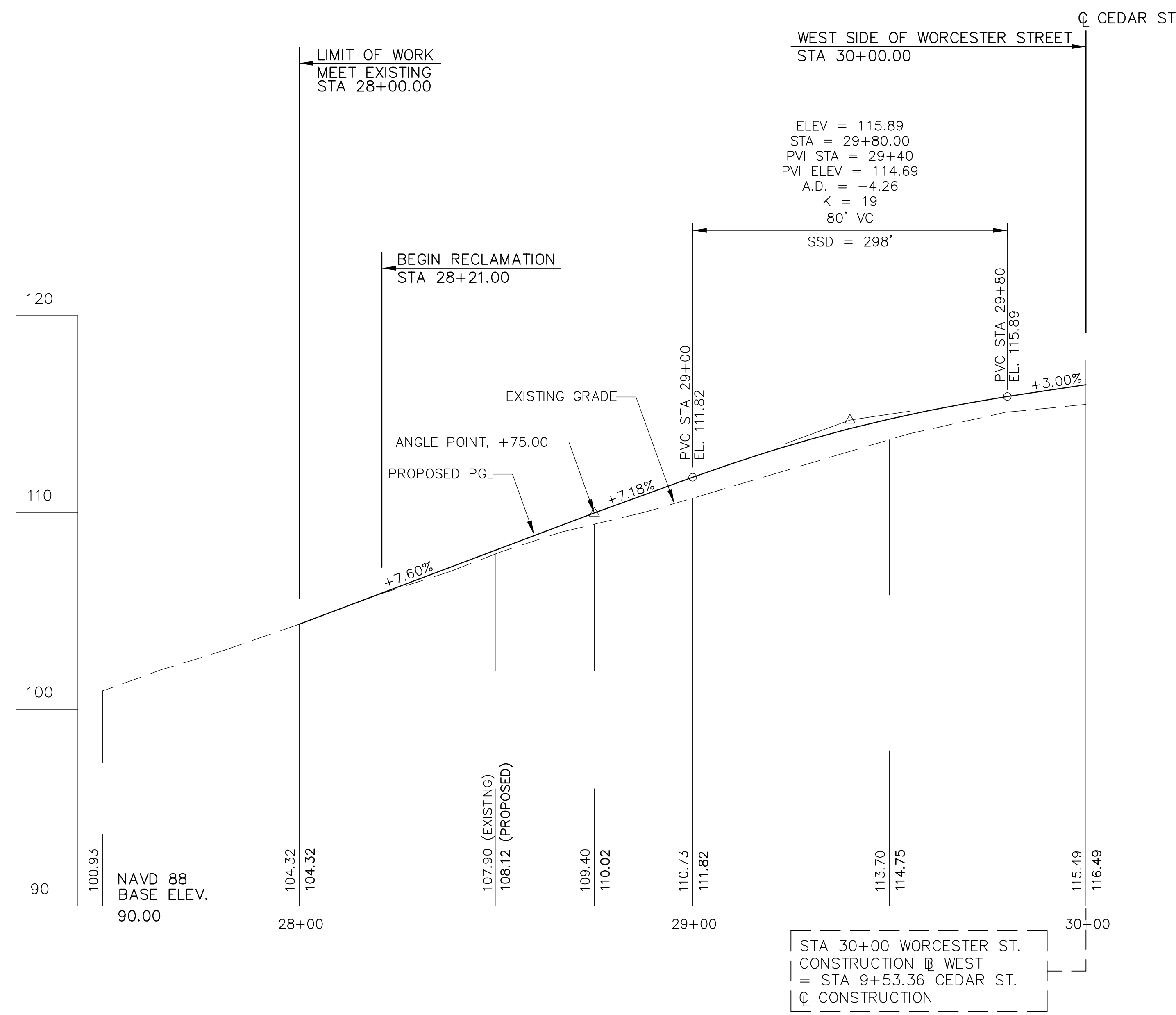


FOR CONSTRUCTION PLANS: SEE SHEET NOS. 11 AND 12

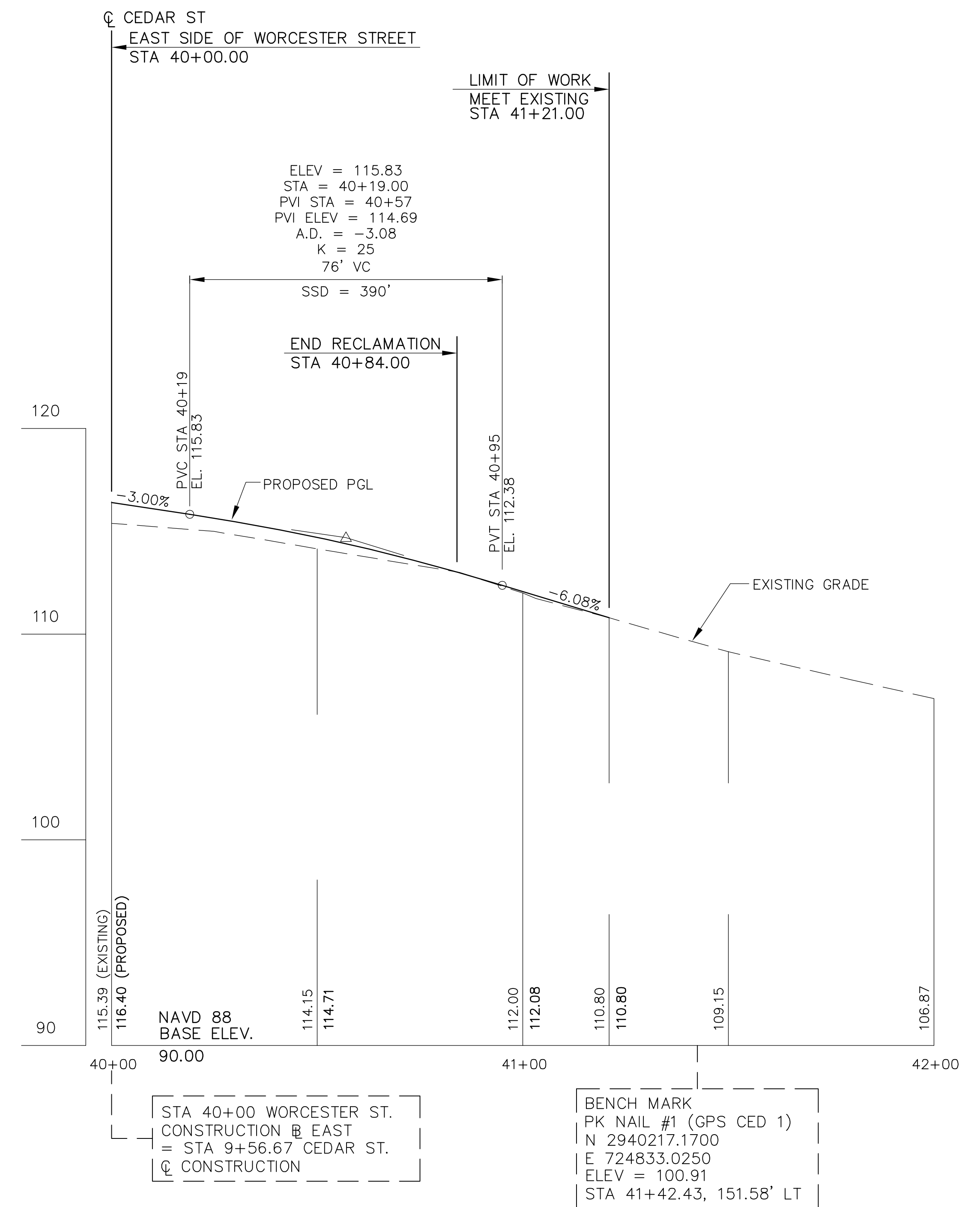
WELLESLEY
CEDAR STREET OVER ROUTE 9

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	14	72
PROJECT FILE NO. 604007			

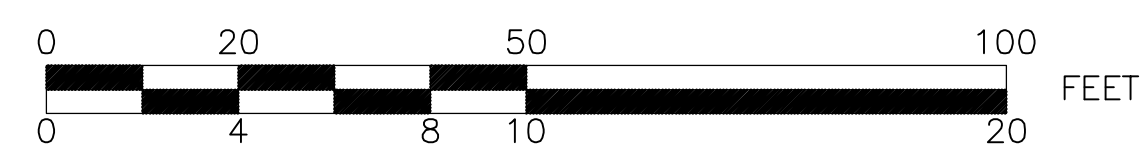
PROFILE - WORCESTER STREET



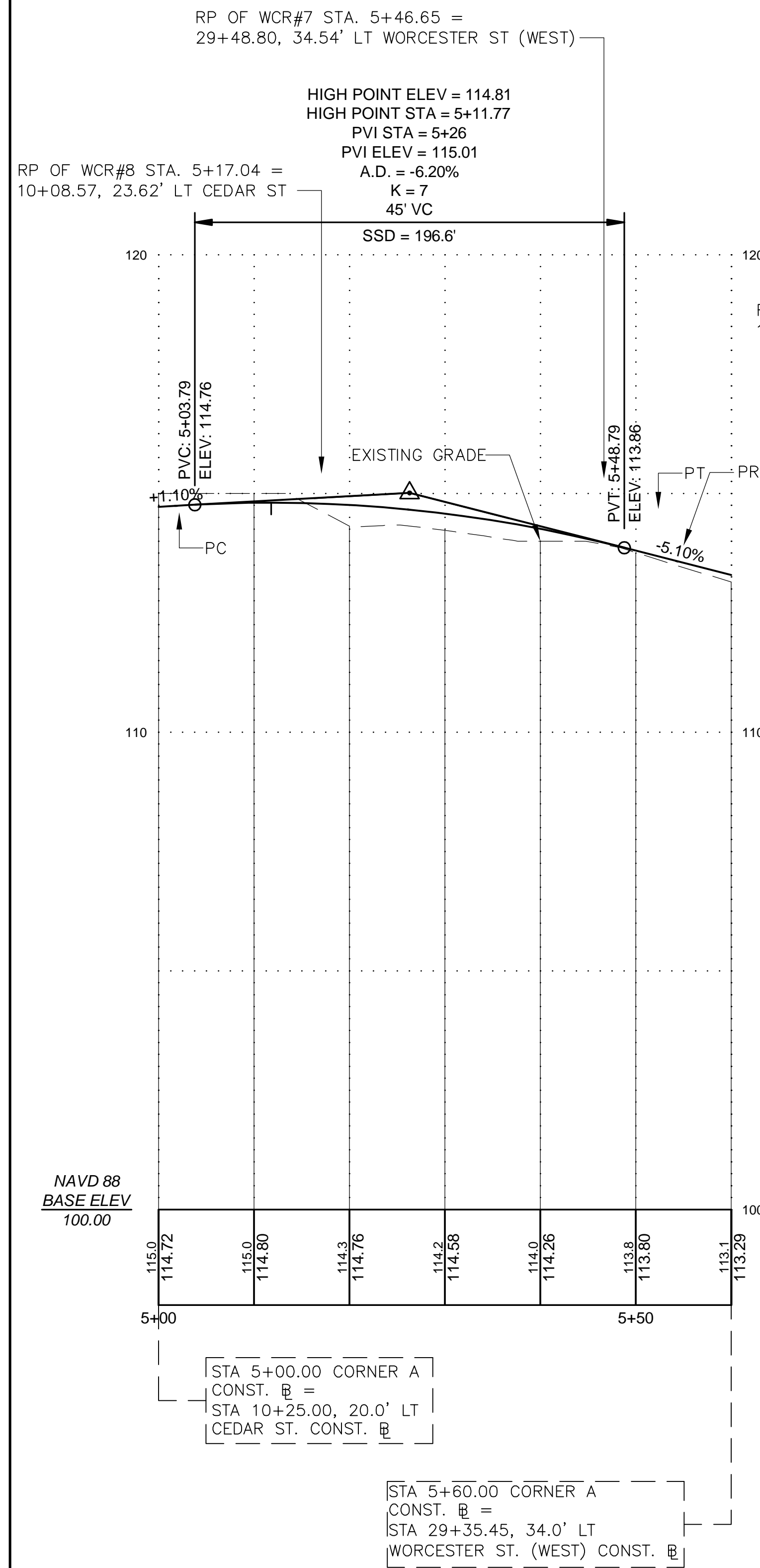
PROFILE - WORCESTER STREET WEST



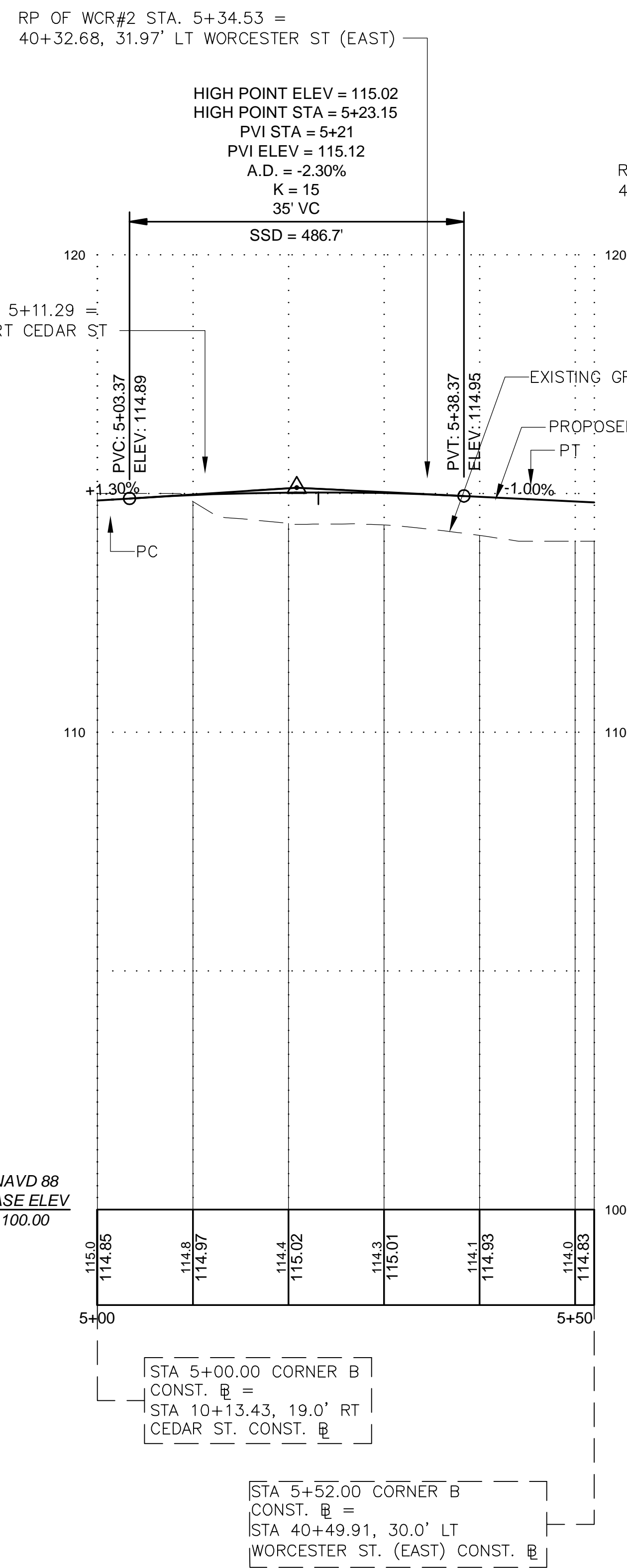
PROFILE - WORCESTER STREET EAST



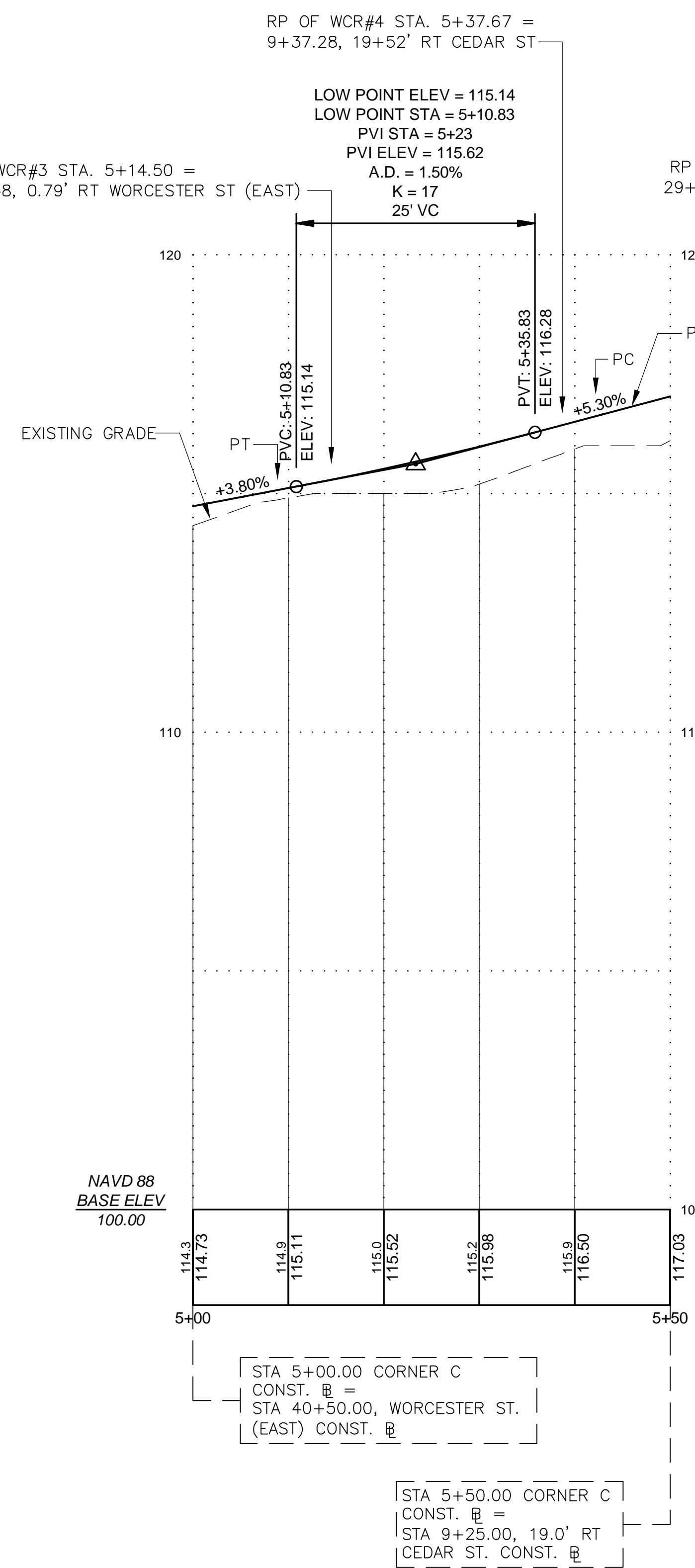
FOR CONSTRUCTION PLANS: SEE SHEET 11



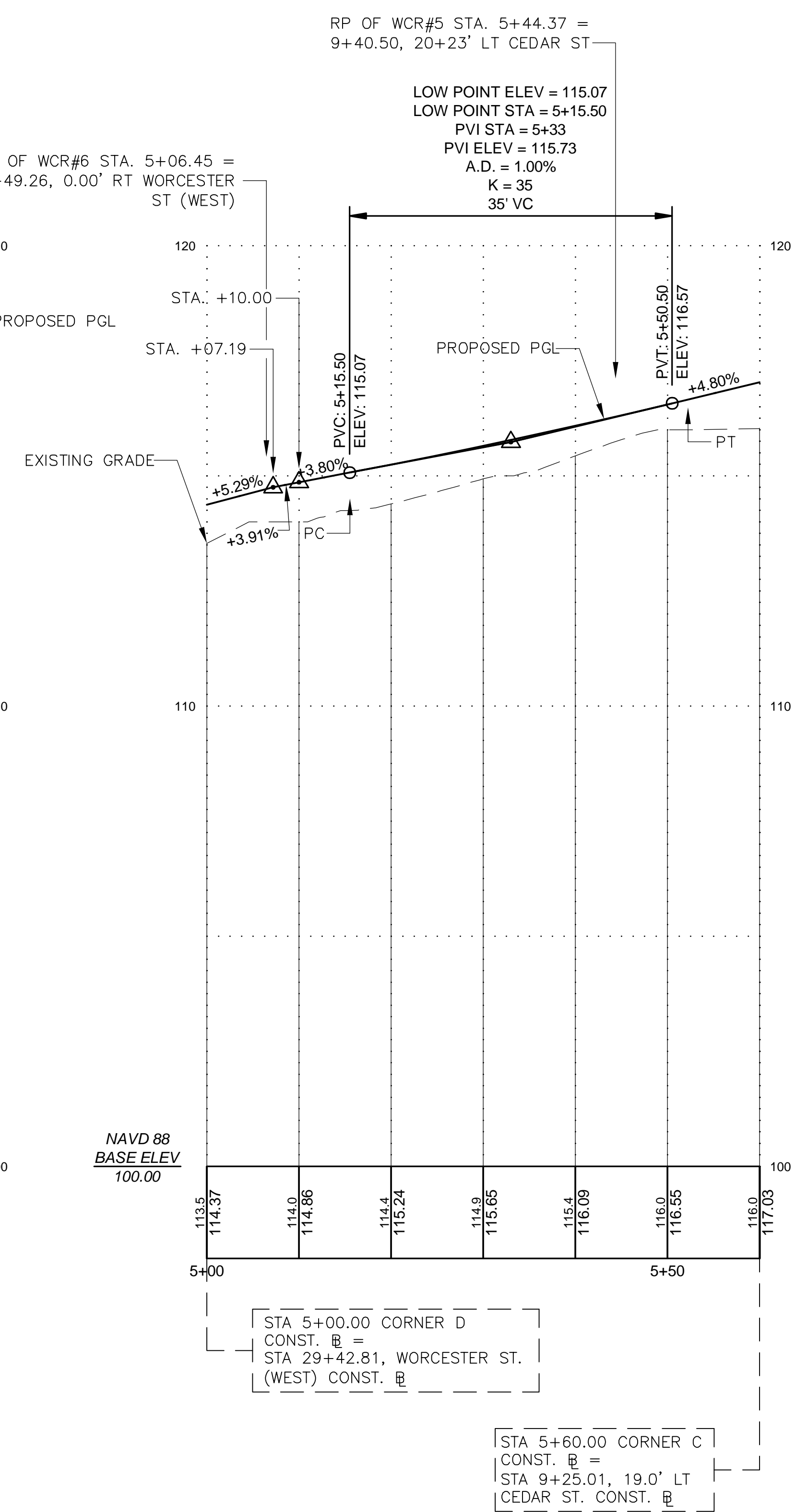
PROFILE - A



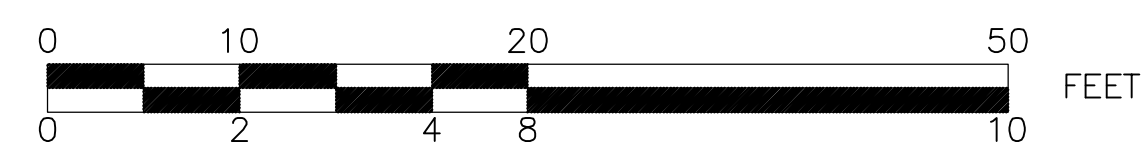
PROFILE - B



PROFILE - C



PROFILE - D



FOR CONSTRUCTION PLANS: SEE SHEET 11

**WELLESLEY
CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	16	72
PROJECT FILE NO. 604007			

**GRADING AND CURB TIE PLAN
SHEET 1 OF 2**

CURB CURVE DATA

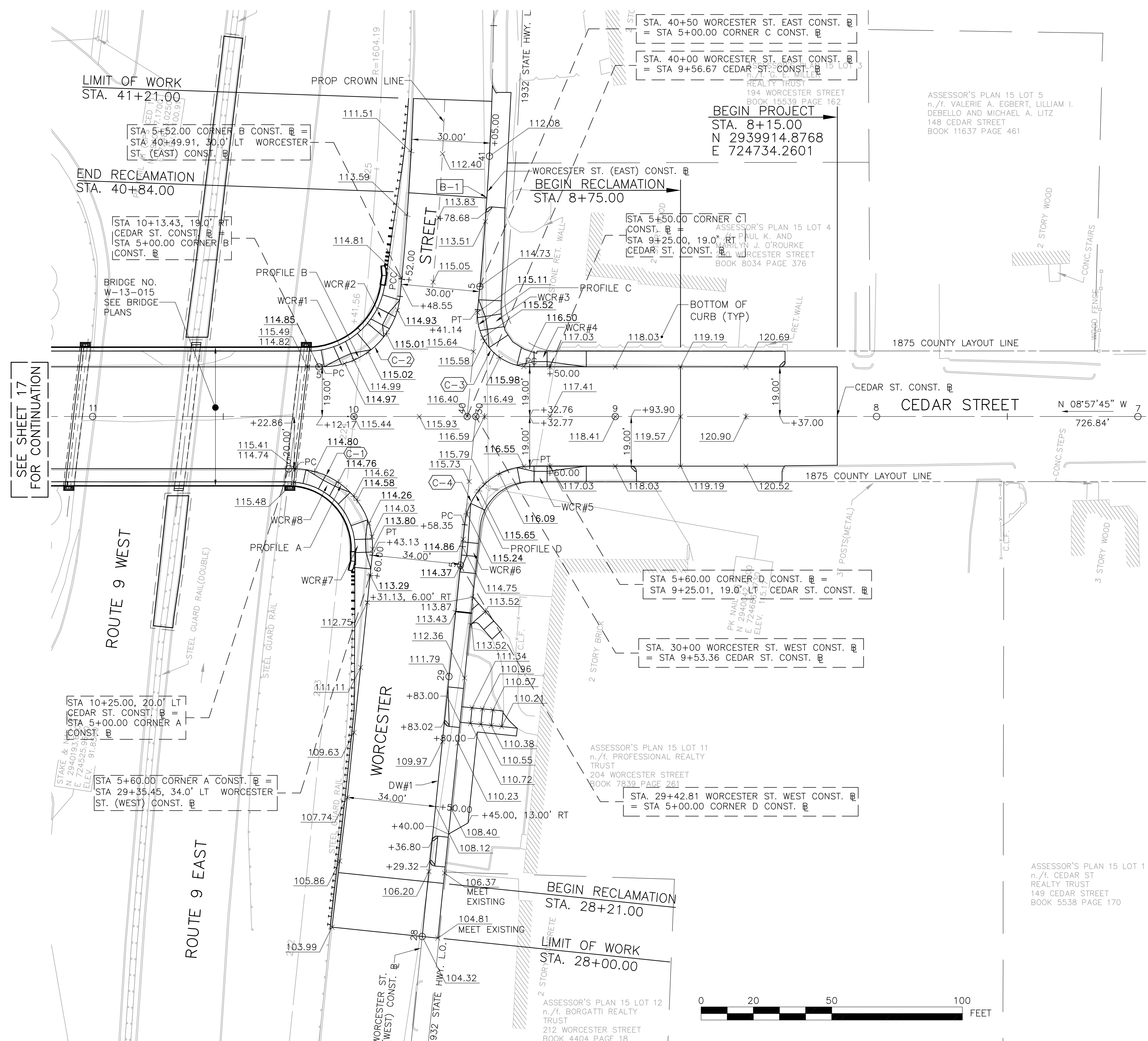
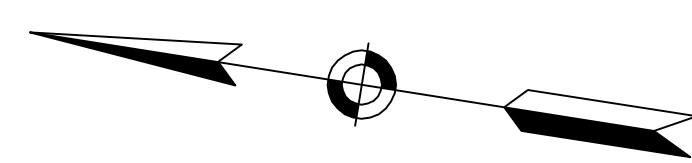
CURVE NO.	RADIUS	Δ	L	T
C-1	30.00'	95°-53'-22"	50.21'	33.25'
C-2	30.00'	84°-16'-17"	44.12'	27.14'
C-3	20.00'	95°-34'-46"	33.36'	22.05'
C-4	25.00'	84°-06'-38"	36.70'	22.55'

CONSTRUCTION CURVE DATA

CURVE NO.	RADIUS	Δ	L	T
B-1	1,200.00'	9°-30'-18"	199.07'	99.77'

GENERAL NOTES:

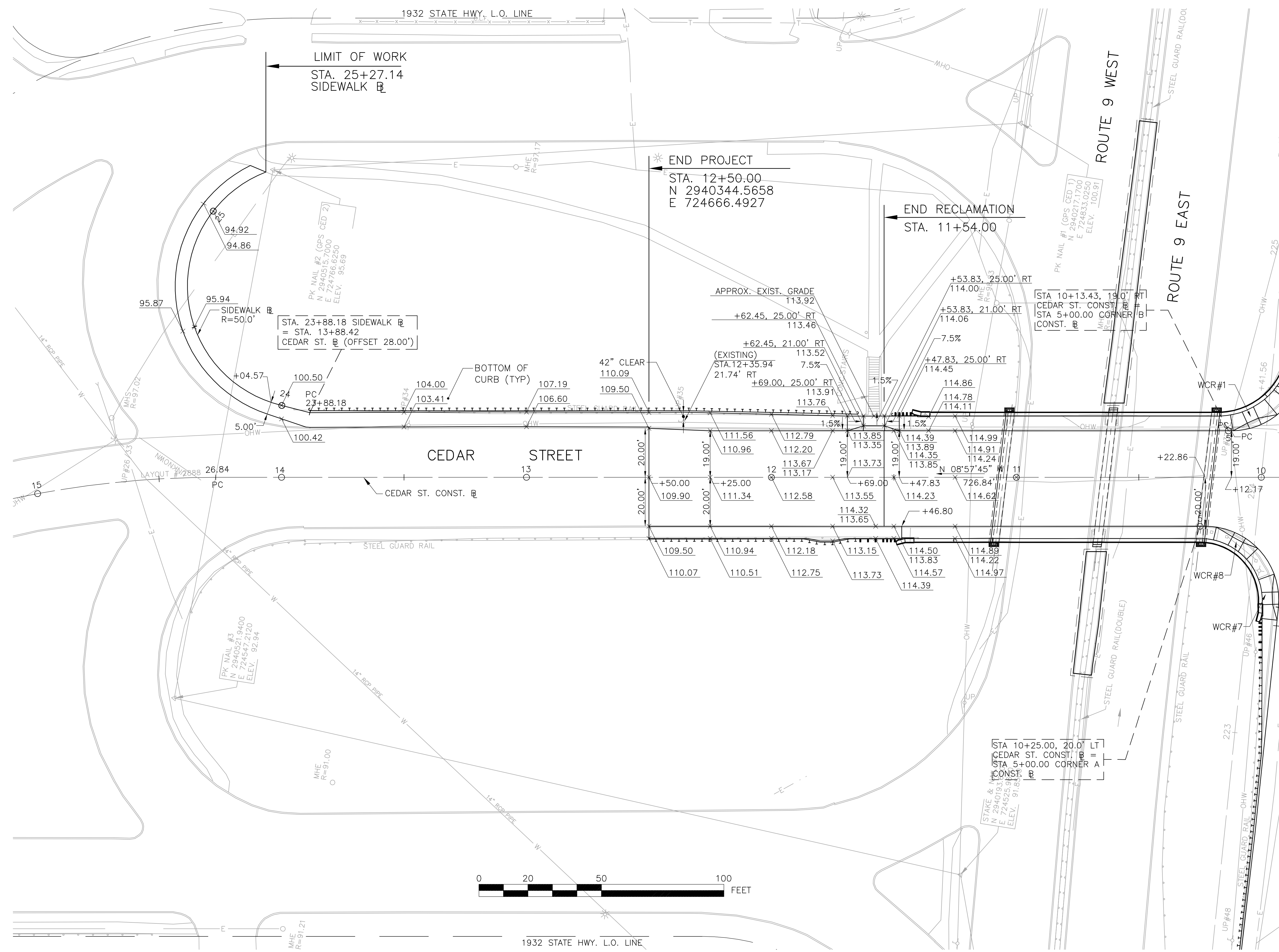
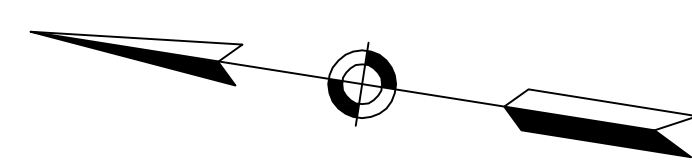
- GRADES SHOWN AT 25' OR 50' STATIONS UNLESS OTHERWISE NOTED. GRADES SHOWN AT 10' INTERVALS AT INTERSECTION CORNERS.
- ALL CURB IS 6" REVEAL EXCEPT WHERE SHOWN ON BRIDGE APPROACHES. SEE SHEET 8 FOR 8" TO 6" REVEAL TRANSITION.
- SEE BRIDGE PLANS FOR GRADES ON BRIDGE.



WELLESLEY
CEDAR STREET OVER ROUTE 9

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	17	72
PROJECT FILE NO. 604007			

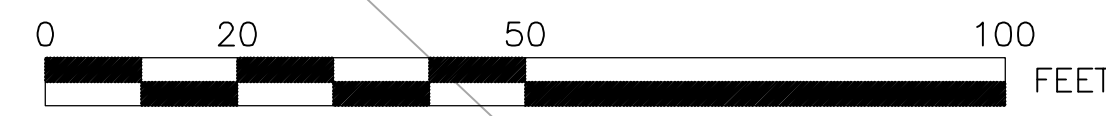
GRADING AND CURB TIE PLAN
SHEET 2 OF 2



SEE SHEET 16
FOR CONTINUATION

GENERAL NOTES:

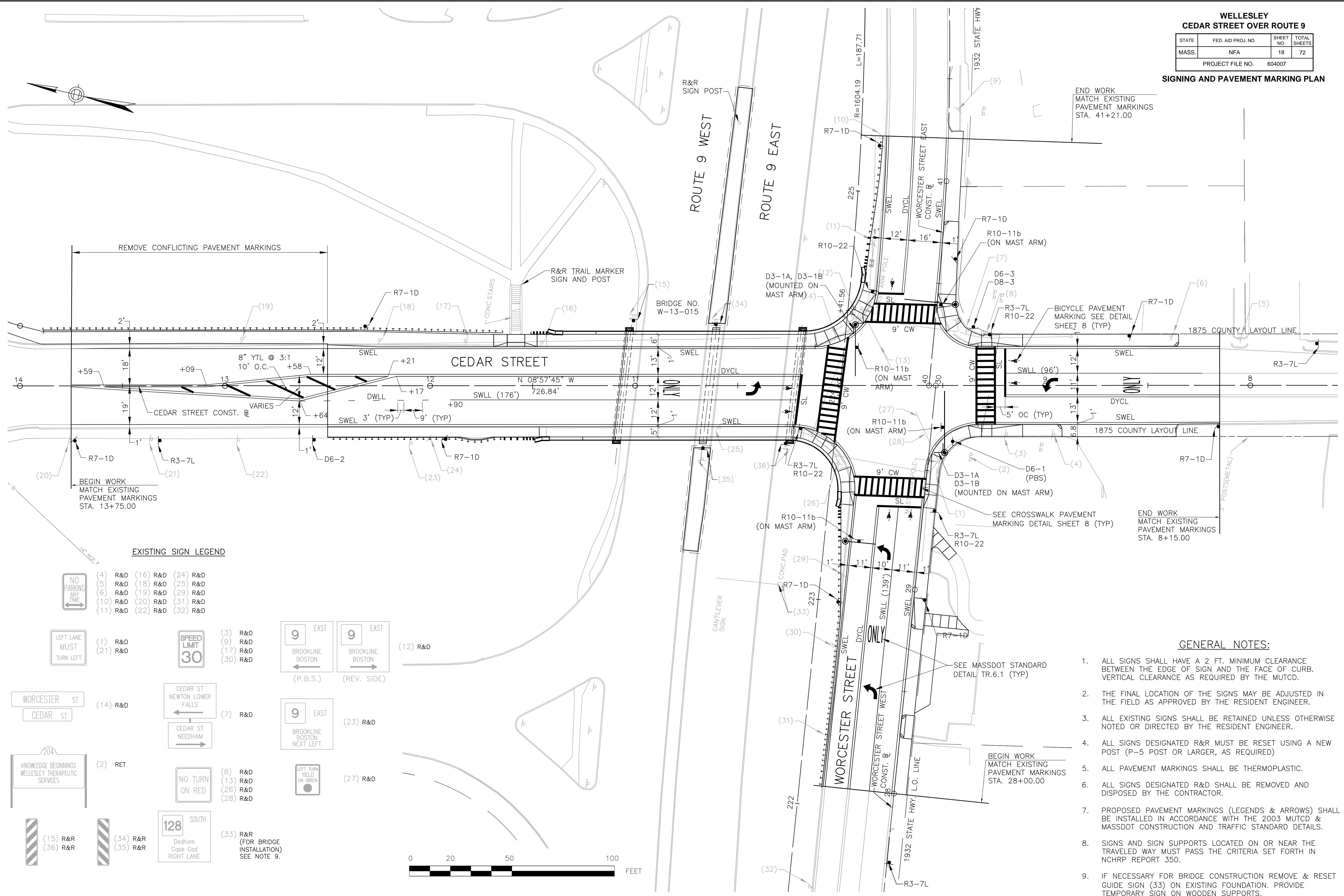
1. GRADES SHOWN AT 25' OR 50' STATIONS UNLESS OTHERWISE NOTED. GRADES SHOWN AT 10' INTERVALS AT INTERSECTION CORNERS.
2. ALL CURB IS 6" REVEAL EXCEPT WHERE SHOWN ON BRIDGE APPROACHES. SEE SHEET 8 FOR 8" TO 6" CURB REVEAL TRANSITION.
3. SEE BRIDGE PLANS FOR GRADES ON BRIDGE.



WELLESLEY
CEDAR STREET OVER ROUTE 9

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	18	72
PROJECT FILE NO. 604007			

SIGNING AND PAVEMENT MARKING PLAN

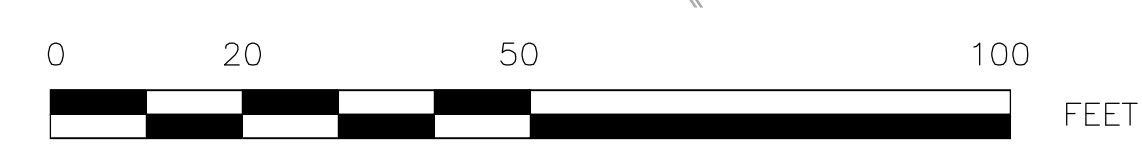


EXISTING SIGN LEGEND

	(4) R&D	(16) R&D	(24) R&D
	(1) R&D	(21) R&D	
	(3) R&D	(9) R&D	(17) R&D
	(14) R&D		
	(2) RET		
	(15) R&R	(36) R&R	
	(34) R&R	(35) R&R	
	(33) R&R		
	(8) R&D	(13) R&D	(26) R&D
	(28) R&D		
	(27) R&D		
	(12) R&D		
	(23) R&D		

GENERAL NOTES:

- ALL SIGNS SHALL HAVE A 2 FT. MINIMUM CLEARANCE BETWEEN THE EDGE OF SIGN AND THE FACE OF CURB. VERTICAL CLEARANCE AS REQUIRED BY THE MUTCD.
- THE FINAL LOCATION OF THE SIGNS MAY BE ADJUSTED IN THE FIELD AS APPROVED BY THE RESIDENT ENGINEER.
- ALL EXISTING SIGNS SHALL BE RETAINED UNLESS OTHERWISE NOTED OR DIRECTED BY THE RESIDENT ENGINEER.
- ALL SIGNS DESIGNATED R&R MUST BE RESET USING A NEW POST (P-5 POST OR LARGER, AS REQUIRED)
- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
- ALL SIGNS DESIGNATED R&D SHALL BE REMOVED AND DISPOSED BY THE CONTRACTOR.
- PROPOSED PAVEMENT MARKINGS (LEGENDS & ARROWS) SHALL BE INSTALLED IN ACCORDANCE WITH THE 2003 MUTCD & MASSDOT CONSTRUCTION AND TRAFFIC STANDARD DETAILS.
- SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350.
- IF NECESSARY FOR BRIDGE CONSTRUCTION REMOVE & RESET GUIDE SIGN (33) ON EXISTING FOUNDATION. PROVIDE TEMPORARY SIGN ON WOODEN SUPPORTS.



WELLESLEY
CEDAR STREET OVER ROUTE 9

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	19	72
PROJECT FILE NO.		604007	

SIGN SUMMARY

TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (IN)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH (IN)	HEIGHT (IN)		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
D3-1A (P.B.S)	VARIABLES	12	WORCESTER ST	6"	3" 3"	-	2	SEE NOTE 4			MOUNT ON MAST ARM (2)	EACH	EACH
D3-1B (P.B.S)	VARIABLES	12	CEDAR ST	6"	3" 3"	-	2	SEE NOTE 4			MOUNT ON MAST ARM (2)	EACH	EACH
R3-7L	30	30	LEFT LANE MUST TURN LEFT	SEE 2003 MUTCD			6	SEE 2003 MUTCD			P5-1 (6)	6.25	37.50
R7-1D	12	18	NO PARKING ANY TIME	SEE 2003 MUTCD			9	SEE 2003 MUTCD			P5-1 (9)	1.50	13.50
R10-11b	24	24	NO TURN ON RED	SEE 2003 MUTCD			4	SEE 2003 MUTCD			MOUNT ON MAST ARM (4)	4.00	16.00
R10-22	18	24	TO REQUEST GREEN WAIT ON	SEE MASSDOT STANDARD			4	SEE MASSDOT STANDARD			MOUNT WITH R3-7L (3) P5-1 (1)	3.00	12.00
											TOTAL AREA	79.0 SF	

- NOTES: 1. HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS.
 2. P.B.S = PAINTED BOTH SIDES.
 3. ALL D6 AND D8 SERIES SIGNS SHALL FOLLOW MASSDOT STANDARDS.
 4. D3-1A AND D3-1B STREET NAME SIGNS SHALL BE OBTAINED FROM ATLANTIC HIGHWAY SIGN CO., TAUNTON, MA - (617)-361-8600. TOWN STANDARDS FOR STREET NAME SIGNS ARE TO BE FOLLOWED.

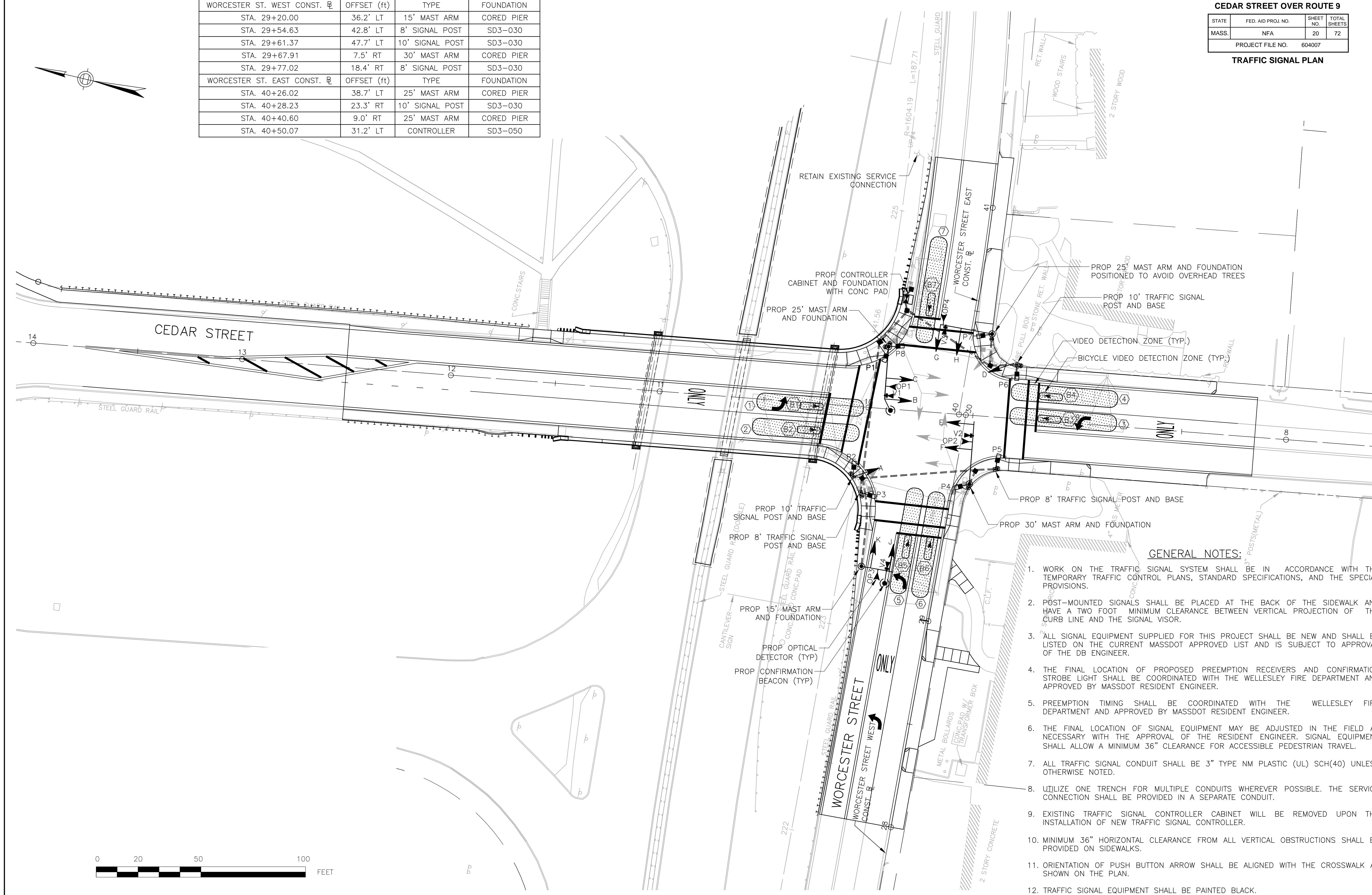
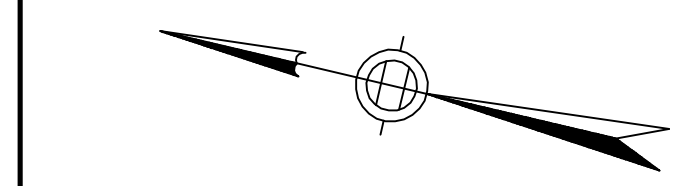
<p>D6-1 (FACING CEDAR ST S.BD TRAFFIC)</p> <table border="1"> <tr><td>5.0'</td><td>5.0'</td><td>27.50 SF</td></tr> <tr><td colspan="2">SIGNS REQUIRED</td><td>1</td></tr> <tr><td colspan="2">TOTAL AREA</td><td>27.50 SF</td></tr> <tr><td>BACKGROUND</td><td>LEGEND</td><td>BORDER</td></tr> <tr><td>GREEN REFL.</td><td>SILVER WHITE</td><td>SILVER WHITE</td></tr> </table>	5.0'	5.0'	27.50 SF	SIGNS REQUIRED		1	TOTAL AREA		27.50 SF	BACKGROUND	LEGEND	BORDER	GREEN REFL.	SILVER WHITE	SILVER WHITE	<p>D6-1 (FACING CEDAR ST. N.BD TRAFFIC)</p> <table border="1"> <tr><td>5.0'</td><td>5.0'</td><td>--</td></tr> <tr><td colspan="2">SIGNS REQUIRED</td><td>1</td></tr> <tr><td colspan="2">TOTAL AREA</td><td>--</td></tr> <tr><td>BACKGROUND</td><td>LEGEND</td><td>BORDER</td></tr> <tr><td>GREEN REFL.</td><td>SILVER WHITE</td><td>SILVER WHITE</td></tr> </table>	5.0'	5.0'	--	SIGNS REQUIRED		1	TOTAL AREA		--	BACKGROUND	LEGEND	BORDER	GREEN REFL.	SILVER WHITE	SILVER WHITE	<p>D6-2</p> <table border="1"> <tr><td>5.0'</td><td>5.0'</td><td>25.00 SF</td></tr> <tr><td colspan="2">SIGNS REQUIRED</td><td>1</td></tr> <tr><td colspan="2">TOTAL AREA</td><td>25.00 SF</td></tr> <tr><td>BACKGROUND</td><td>LEGEND</td><td>BORDER</td></tr> <tr><td>GREEN REFL.</td><td>SILVER WHITE</td><td>SILVER WHITE</td></tr> </table>	5.0'	5.0'	25.00 SF	SIGNS REQUIRED		1	TOTAL AREA		25.00 SF	BACKGROUND	LEGEND	BORDER	GREEN REFL.	SILVER WHITE	SILVER WHITE
5.0'	5.0'	27.50 SF																																													
SIGNS REQUIRED		1																																													
TOTAL AREA		27.50 SF																																													
BACKGROUND	LEGEND	BORDER																																													
GREEN REFL.	SILVER WHITE	SILVER WHITE																																													
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TOTAL AREA		--																																													
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TOTAL AREA		25.00 SF																																													
BACKGROUND	LEGEND	BORDER																																													
GREEN REFL.	SILVER WHITE	SILVER WHITE																																													
<p>D6-3</p> <table border="1"> <tr><td>5.0'</td><td>4.0'</td><td>20.00 SF</td></tr> <tr><td colspan="2">SIGNS REQUIRED</td><td>1</td></tr> <tr><td colspan="2">TOTAL AREA</td><td>20.00 SF</td></tr> <tr><td>BACKGROUND</td><td>LEGEND</td><td>BORDER</td></tr> <tr><td>GREEN REFL.</td><td>SILVER WHITE</td><td>SILVER WHITE</td></tr> </table>	5.0'	4.0'	20.00 SF	SIGNS REQUIRED		1	TOTAL AREA		20.00 SF	BACKGROUND	LEGEND	BORDER	GREEN REFL.	SILVER WHITE	SILVER WHITE	<p>D8-3</p> <table border="1"> <tr><td>4.0'</td><td>3.0'</td><td>12.00 SF</td></tr> <tr><td colspan="2">SIGNS REQUIRED</td><td>1</td></tr> <tr><td colspan="2">TOTAL AREA</td><td>12.00 SF</td></tr> <tr><td>BACKGROUND</td><td>LEGEND</td><td>BORDER</td></tr> <tr><td>GREEN REFL.</td><td>SILVER WHITE</td><td>SILVER WHITE</td></tr> </table>	4.0'	3.0'	12.00 SF	SIGNS REQUIRED		1	TOTAL AREA		12.00 SF	BACKGROUND	LEGEND	BORDER	GREEN REFL.	SILVER WHITE	SILVER WHITE	<p>GUIDE SIGN SUMMARY</p> <p>TOTAL AREA OF SIGNS 84.50 SF</p>															
5.0'	4.0'	20.00 SF																																													
SIGNS REQUIRED		1																																													
TOTAL AREA		20.00 SF																																													
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TOTAL AREA		12.00 SF																																													
BACKGROUND	LEGEND	BORDER																																													
GREEN REFL.	SILVER WHITE	SILVER WHITE																																													

PROPOSED SIGNAL EQUIPMENT LOCATION			
WORCESTER ST. WEST CONST. \bar{E}	OFFSET (ft)	TYPE	FOUNDATION
STA. 29+20.00	36.2' LT	15' MAST ARM	CORED PIER
STA. 29+54.63	42.8' LT	8' SIGNAL POST	SD3-030
STA. 29+61.37	47.7' LT	10' SIGNAL POST	SD3-030
STA. 29+67.91	7.5' RT	30' MAST ARM	CORED PIER
STA. 29+77.02	18.4' RT	8' SIGNAL POST	SD3-030
WORCESTER ST. EAST CONST. \bar{E}	OFFSET (ft)	TYPE	FOUNDATION
STA. 40+26.02	38.7' LT	25' MAST ARM	CORED PIER
STA. 40+28.23	23.3' RT	10' SIGNAL POST	SD3-030
STA. 40+40.60	9.0' RT	25' MAST ARM	CORED PIER
STA. 40+50.07	31.2' LT	CONTROLLER	SD3-050

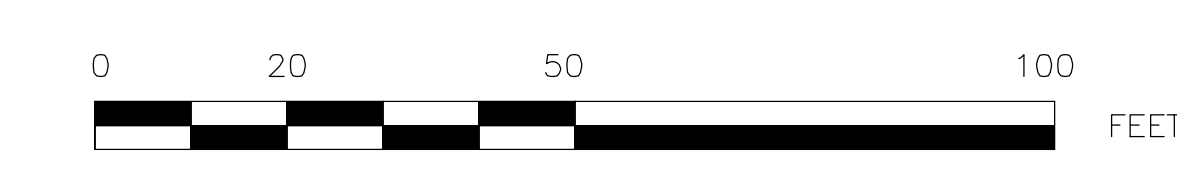
WELLESLEY
CEDAR STREET OVER ROUTE 9

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	20	72
PROJECT FILE NO. 604007			

TRAFFIC SIGNAL PLAN

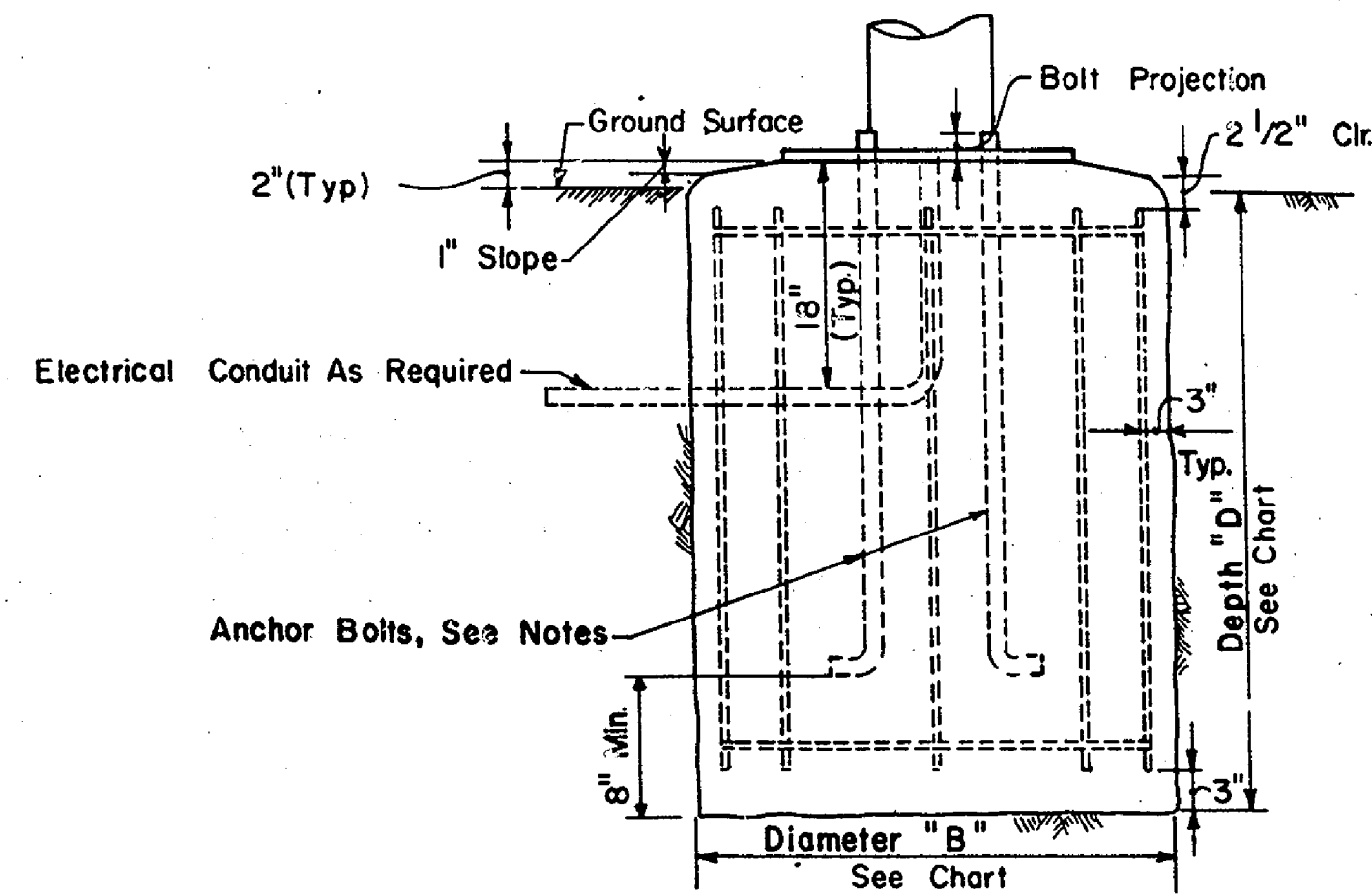


- GENERAL NOTES:**
1. WORK ON THE TRAFFIC SIGNAL SYSTEM SHALL BE IN ACCORDANCE WITH THE TEMPORARY TRAFFIC CONTROL PLANS, STANDARD SPECIFICATIONS, AND THE SPECIAL PROVISIONS.
 2. POST-MOUNTED SIGNALS SHALL BE PLACED AT THE BACK OF THE SIDEWALK AND HAVE A TWO FOOT MINIMUM CLEARANCE BETWEEN VERTICAL PROJECTION OF THE CURB LINE AND THE SIGNAL VISOR.
 3. ALL SIGNAL EQUIPMENT SUPPLIED FOR THIS PROJECT SHALL BE NEW AND SHALL BE LISTED ON THE CURRENT MASSDOT APPROVED LIST AND IS SUBJECT TO APPROVAL OF THE DB ENGINEER.
 4. THE FINAL LOCATION OF PROPOSED PREEMPTION RECEIVERS AND CONFIRMATION STROBE LIGHT SHALL BE COORDINATED WITH THE WELLESLEY FIRE DEPARTMENT AND APPROVED BY MASSDOT RESIDENT ENGINEER.
 5. PREEMPTION TIMING SHALL BE COORDINATED WITH THE WELLESLEY FIRE DEPARTMENT AND APPROVED BY MASSDOT RESIDENT ENGINEER.
 6. THE FINAL LOCATION OF SIGNAL EQUIPMENT MAY BE ADJUSTED IN THE FIELD AS NECESSARY WITH THE APPROVAL OF THE RESIDENT ENGINEER. SIGNAL EQUIPMENT SHALL ALLOW A MINIMUM 36" CLEARANCE FOR ACCESSIBLE PEDESTRIAN TRAVEL.
 7. ALL TRAFFIC SIGNAL CONDUIT SHALL BE 3" TYPE NM PLASTIC (UL) SCH(40) UNLESS OTHERWISE NOTED.
 8. UTILIZE ONE TRENCH FOR MULTIPLE CONDUITS WHEREVER POSSIBLE. THE SERVICE CONNECTION SHALL BE PROVIDED IN A SEPARATE CONDUIT.
 9. EXISTING TRAFFIC SIGNAL CONTROLLER CABINET WILL BE REMOVED UPON THE INSTALLATION OF NEW TRAFFIC SIGNAL CONTROLLER.
 10. MINIMUM 36" HORIZONTAL CLEARANCE FROM ALL VERTICAL OBSTRUCTIONS SHALL BE PROVIDED ON SIDEWALKS.
 11. ORIENTATION OF PUSH BUTTON ARROW SHALL BE ALIGNED WITH THE CROSSWALK AS SHOWN ON THE PLAN.
 12. TRAFFIC SIGNAL EQUIPMENT SHALL BE PAINTED BLACK.

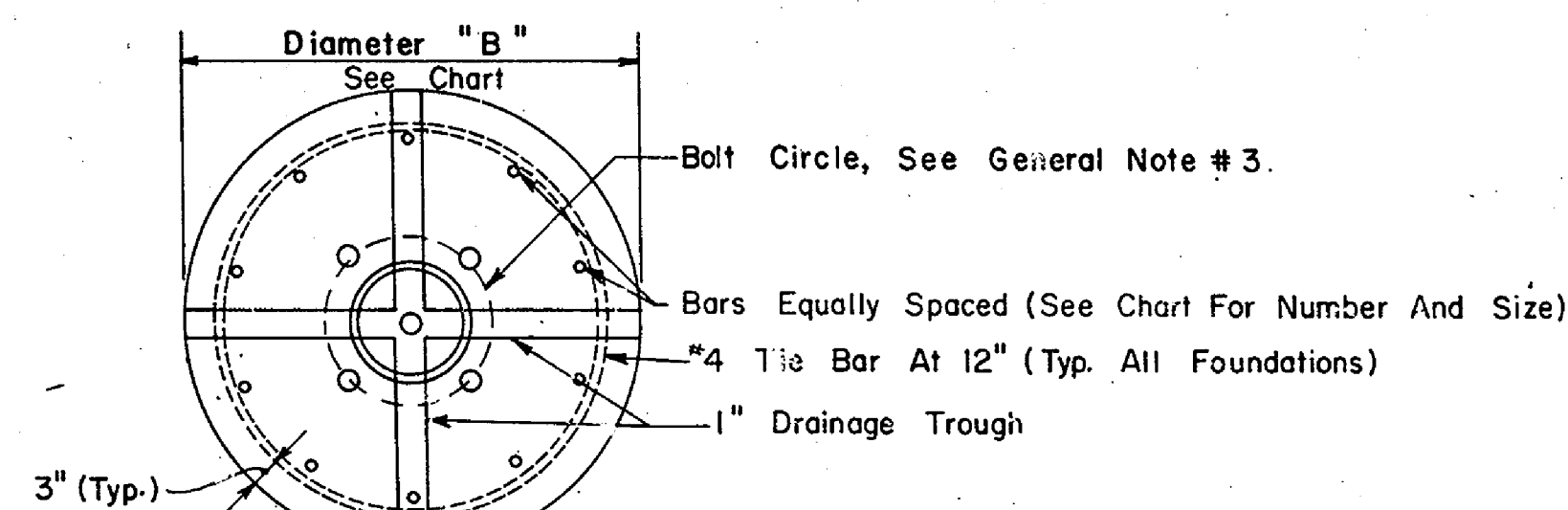


STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	22	72
PROJECT FILE NO.		604007	

CORED PIER MAST ARM DETAILS



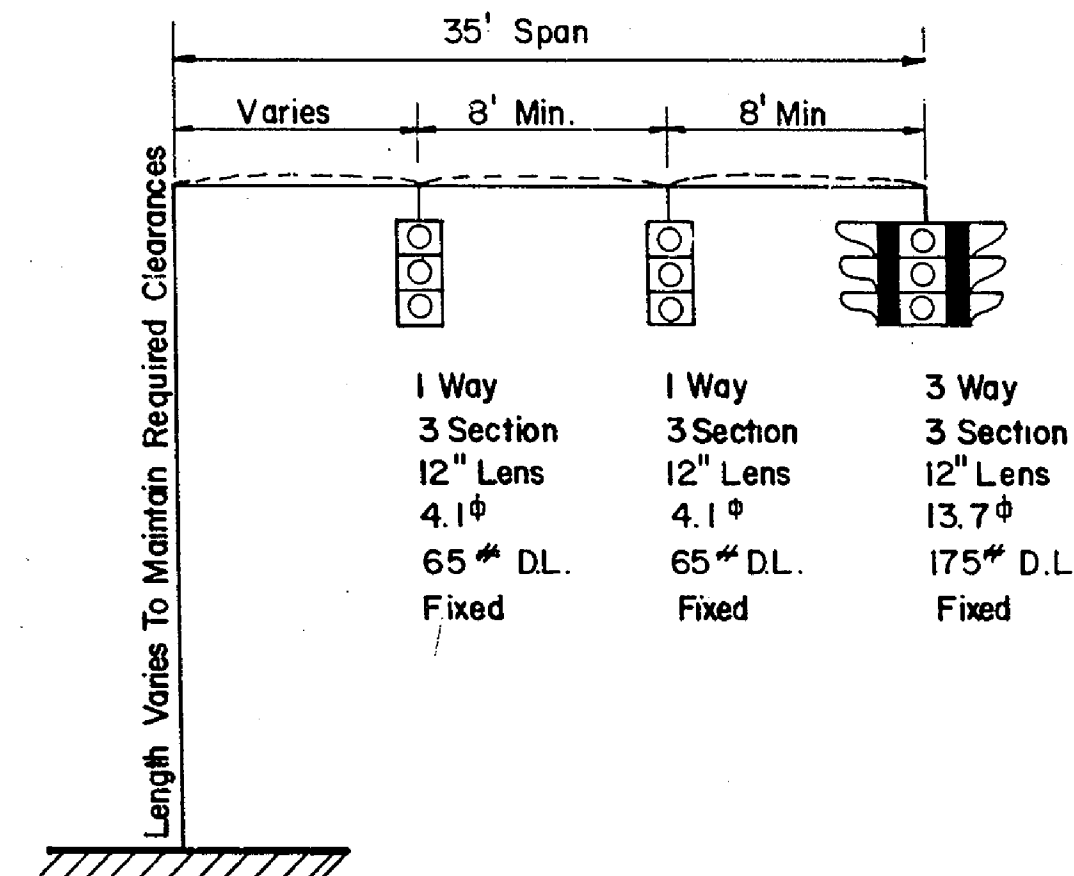
ELEVATION
NOT TO SCALE



PLAN
NOT TO SCALE

NOTES:

1. Pole, Base Plate And Anchor Bolts Shall Be Designed By The Pole Manufacturer
2. Minimum Foundation Depth Shall Be Checked To Insure Adequate Anchor Bolt Embedment - Clearance, And Projection
3. Optional End Anchorage For Anchor Bolts Can Be A Steel Plate With Threaded Holes Designed By The Pole Manufacturer



GENERAL NOTES:

1. Foundations Shall Be Class "A" Cement Concrete Masonry.
2. Reinforcement Shall Be ASTM A615-Gr 60.
3. Bolt Circle And Anchor Bolts To Be Provided By The Contractor The Anchor Bolts Shall Be Supplied With A Template For Setting The Bolts And Necessary Bolt Projections.
4. Provide For Electrical Conduit As Required.
5. Excavation Shall Be By The Auger Method To The Neat Lines Of The Outside Dimension Of The Foundation Without Disturbing The Soil Around And Below The Proposed Foundation Bottom. Alternate Methods Of Excavation May Be Submitted For Approval If They Meet The Requirements Listed In The General Notes Of Sheets 3 & 4 Of The Span Wire Assembly Foundation Details & Design Charts
6. If The Soil Is Disturbed Or Removed Beyond The Neat Lines Of The Outside Dimension Of The Foundation As Specified, It Shall Be Replaced With Concrete. Any Additional Cost For The Concrete Shall Be Paid For By The Contractor
7. Determination Of Existing Soil Conditions Shall Be Made By The Design Engineer
8. Vertical Reinforcement Bars Are To Be Evenly Spaced In The Foundation As Shown
9. The Smallest Diameter Foundation Shall Be Used That Will Meet The Moment Requirement And Be At Least 16" Greater In Diameter Than The Bolt Circle Diameter
10. If A Poor Soil Or Ledge Is Encountered, (i.e., One Which Does Not Apply To The Design Charts Shown On This Sheet), An Alternative Design Shall Be Developed By The Design Engineer. Decisions Made In Notes #7 & #10, Shall Be Submitted To The M.D.P.W. For Approval. If Utilities Or Other Underground Obstructions Are Encountered, The Contractor Shall Backfill The Area To Its Original Condition Until An Alternate Design Has Been Provided By The Design Engineer.
11. The Foundations Shown On This Drawing Are For A 35'-Foot Cantilevered Type II Mast Arm Carrying A Three Way, Three Section, Twelve Inch (12") Lens Traffic Signal Housing Fixed At The End Of The Arm, And A One-Way, Three-Section, Twelve Inch (12") Lens Traffic Signal Fixed Twelve Feet (12') Away, And Another One-Way, Three-Section Twelve Inch (12") Lens Traffic Signal Fixed Twelve Feet (12') Away From That.

SOIL TYPE (SEE GENERAL NOTE NO. 7)	DIA. (B) = 2'-3"		DIA. (B) = 3'-0"		DIA. (B) = 3'-6"	
	DEPTH (D)	VERTICAL BARS	DEPTH (D)	VERTICAL BARS	DEPTH (D)	VERTICAL BARS
DRY SANDY SOIL	5'-9"	10 #5	5'-0"	10 #6	4'-9"	10 #7
WET SANDY SOIL	6'-9"	10 #5	6'-0"	10 #6	5'-6"	10 #7
CLAYEY SOIL (MEDIUM STIFF)	9'-9"	10 #5	8'-9"	10 #6	8'-0"	10 #7
ALLUVIAL SOIL	14'-3"	10 #5	12'-9"	10 #6	11'-9"	10 #7

FOUNDATION DESIGN CHART

FOR DRY SANDY SOIL
SEE GEOTECHNICAL REPORT

LOCATION STA, OFFSET	ARM LENGTH	DIA. (B) = 3'-0" (MIN)	
		DEPTH (D)	VERTICAL BARS
29+36.15, 37.9' LT	15'	5'-0"	10 #6
29+67.91, 7.5' RT	30'	5'-0"	10 #6
40+26.02, 38.7' LT	25'	5'-0"	10 #6
40+40.60, 9.0' RT	25'	5'-0"	10 #6

SEE DETAIL ABOVE

TABLE 1

TETRA TECH HAS
MODIFIED THIS PLAN TO
INCLUDE TABLE 1

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS

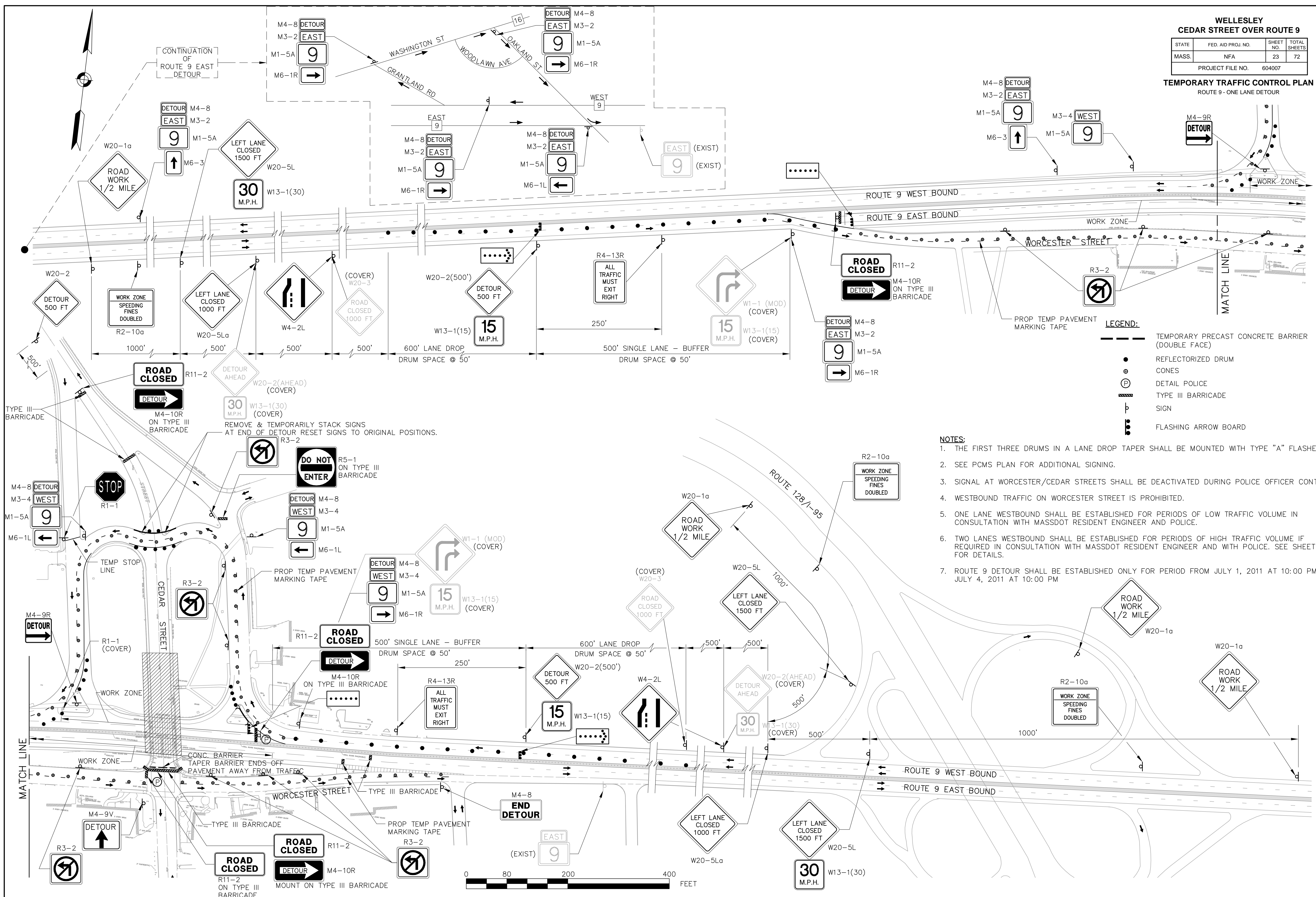
STANDARD DRAWINGS
35' FOOT-TYPE II MAST ARM
CORED PIER FOUNDATIONS

Revised Date: January 2, 1985

Michael D. Neuper
TRAFFIC ENGINEER
DIRECTOR B.T.P.D.

Robert J. McDonough, P.E.
BRIDGE ENGINEER
CHIEF ENGINEER

WELLESLEY
CEDAR STREET OVER ROUTE 9
 STATE FED. AID PROJ. NO. SHEET NO. TOTAL
 MASS. NFA 23 72
 PROJECT FILE NO. 604007
TEMPORARY TRAFFIC CONTROL PLAN
 ROUTE 9 - ONE LANE DETOUR



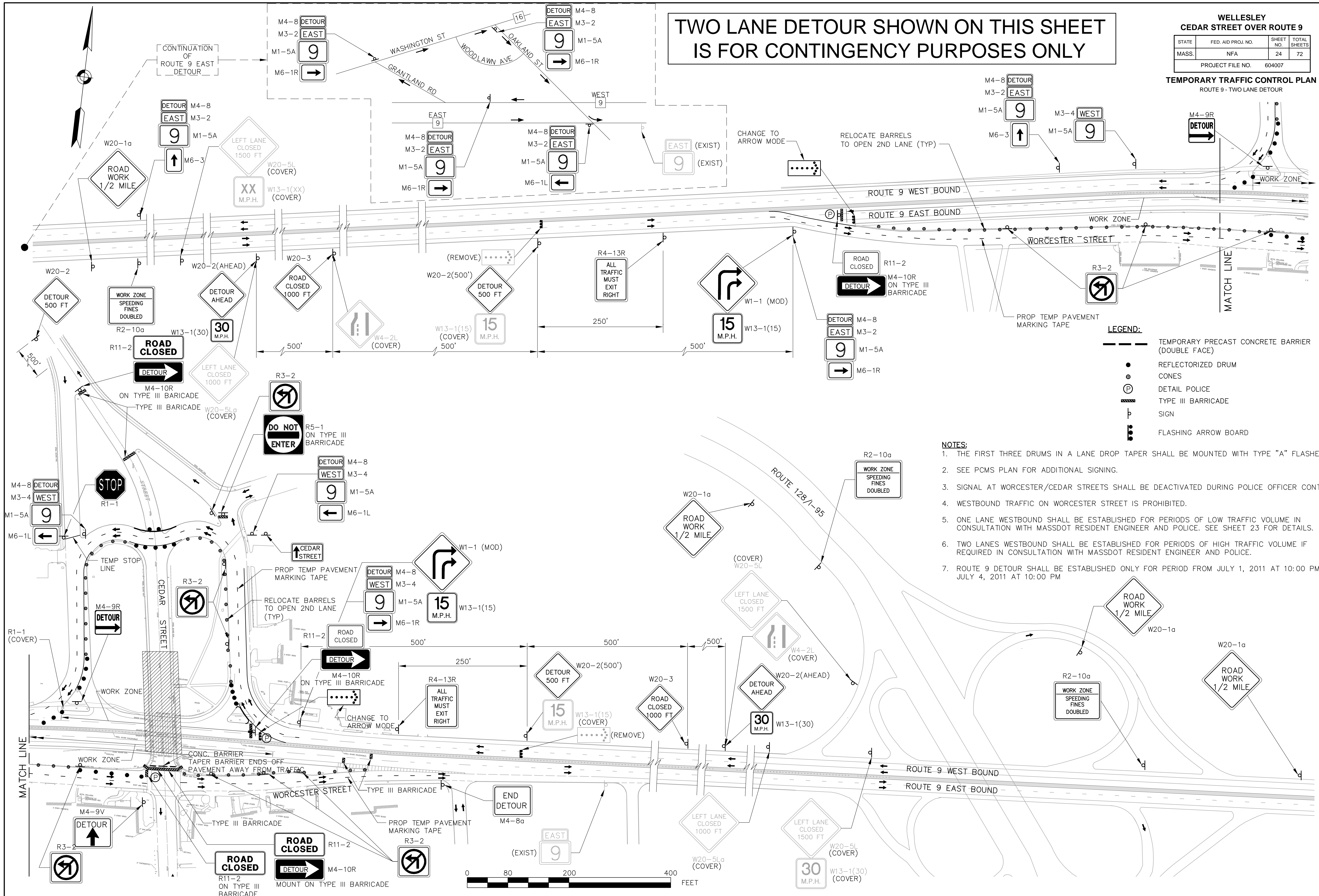
- LEGEND:**
- TEMPORARY PRECAST CONCRETE BARRIER (DOUBLE FACE)
 - REFLECTORIZED DRUM
 - CONES
 - DETAIL POLICE
 - TYPE III BARRICADE
 - SIGN
 - FLASHING ARROW BOARD
- NOTES:**
1. THE FIRST THREE DRUMS IN A LANE DROP TAPER SHALL BE MOUNTED WITH TYPE "A" FLASHERS.
 2. SEE PCMS PLAN FOR ADDITIONAL SIGNING.
 3. SIGNAL AT WORCESTER/CEDAR STREETS SHALL BE DEACTIVATED DURING POLICE OFFICER CONTROL.
 4. WESTBOUND TRAFFIC ON WORCESTER STREET IS PROHIBITED.
 5. ONE LANE WESTBOUND SHALL BE ESTABLISHED FOR PERIODS OF LOW TRAFFIC VOLUME IN CONSULTATION WITH MASSDOT RESIDENT ENGINEER AND POLICE.
 6. TWO LANES WESTBOUND SHALL BE ESTABLISHED FOR PERIODS OF HIGH TRAFFIC VOLUME IF REQUIRED IN CONSULTATION WITH MASSDOT RESIDENT ENGINEER AND WITH POLICE. SEE SHEET 24 FOR DETAILS.
 7. ROUTE 9 DETOUR SHALL BE ESTABLISHED ONLY FOR PERIOD FROM JULY 1, 2011 AT 10:00 PM TO JULY 4, 2011 AT 10:00 PM

TWO LANE DETOUR SHOWN ON THIS SHEET IS FOR CONTINGENCY PURPOSES ONLY

**WELLESLEY
CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	24	72
PROJECT FILE NO. 604007			

**TEMPORARY TRAFFIC CONTROL PLAN
ROUTE 9 - TWO LANE DETOUR**

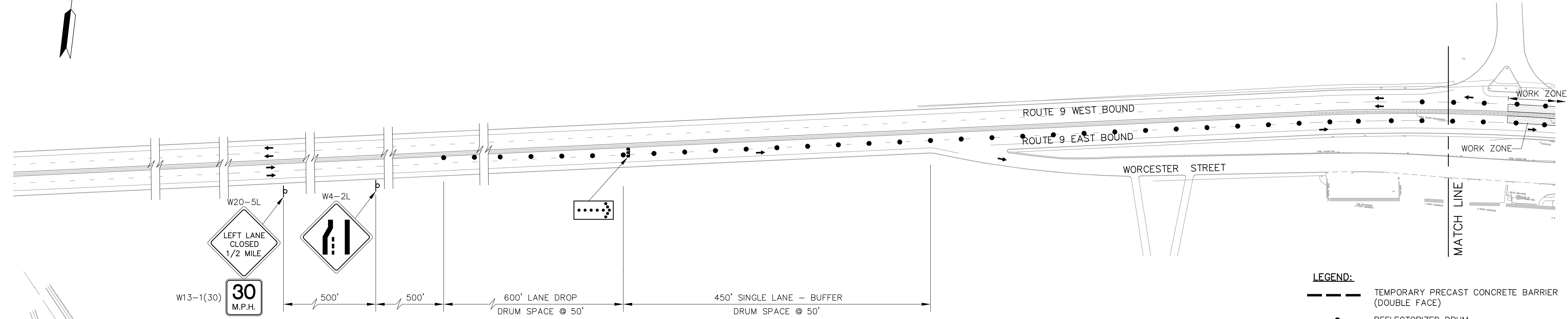
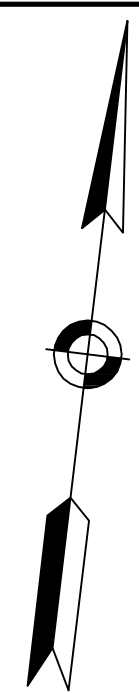


- LEGEND:**
- TEMPORARY PRECAST CONCRETE BARRIER (DOUBLE FACE)
 - REFLECTORIZED DRUM
 - ⊙ CONES
 - Ⓟ DETAIL POLICE
 - ▬ TYPE III BARRICADE
 - Ⓢ SIGN
 - Ⓡ FLASHING ARROW BOARD
- NOTES:**
1. THE FIRST THREE DRUMS IN A LANE DROP TAPER SHALL BE MOUNTED WITH TYPE "A" FLASHERS.
 2. SEE PCMS PLAN FOR ADDITIONAL SIGNING.
 3. SIGNAL AT WORCESTER/CEDAR STREETS SHALL BE DEACTIVATED DURING POLICE OFFICER CONTROL.
 4. WESTBOUND TRAFFIC ON WORCESTER STREET IS PROHIBITED.
 5. ONE LANE WESTBOUND SHALL BE ESTABLISHED FOR PERIODS OF LOW TRAFFIC VOLUME IN CONSULTATION WITH MASSDOT RESIDENT ENGINEER AND POLICE. SEE SHEET 23 FOR DETAILS.
 6. TWO LANES WESTBOUND SHALL BE ESTABLISHED FOR PERIODS OF HIGH TRAFFIC VOLUME IF REQUIRED IN CONSULTATION WITH MASSDOT RESIDENT ENGINEER AND POLICE.
 7. ROUTE 9 DETOUR SHALL BE ESTABLISHED ONLY FOR PERIOD FROM JULY 1, 2011 AT 10:00 PM TO JULY 4, 2011 AT 10:00 PM

**WELLESLEY
CEDAR STREET OVER ROUTE 9**

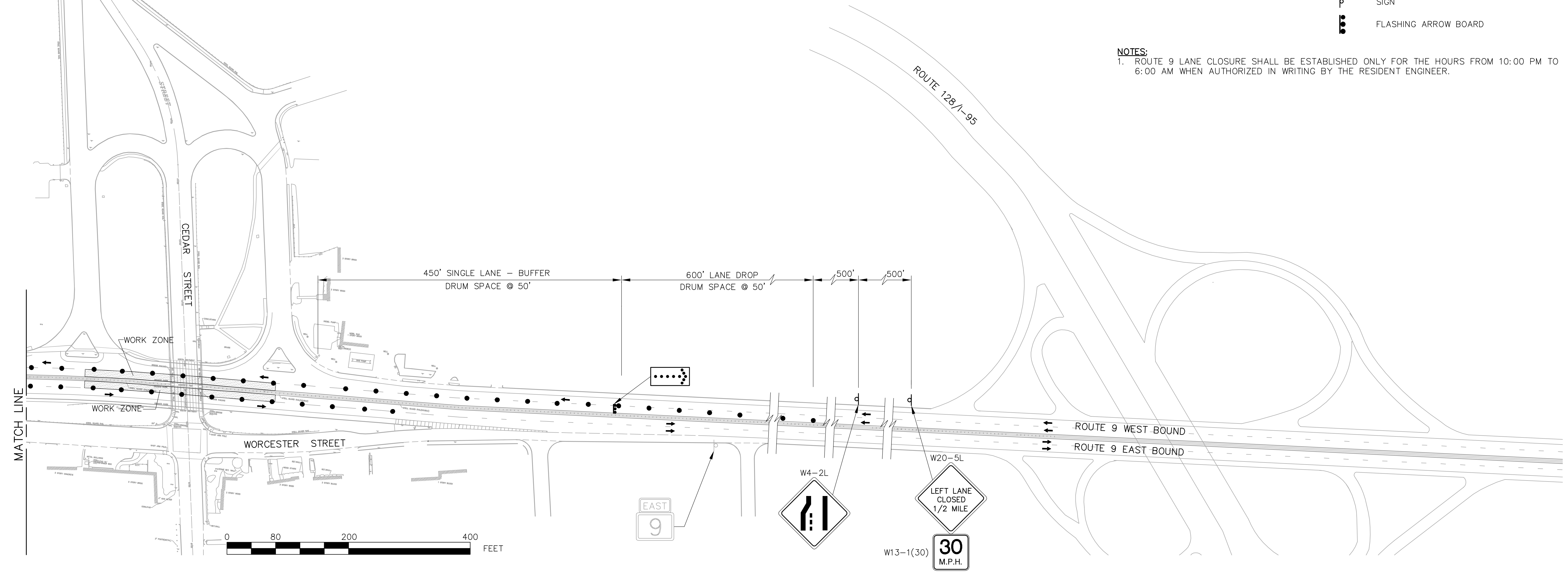
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	25	72
PROJECT FILE NO.		604007	

TEMPORARY TRAFFIC CONTROL PLAN
ROUTE 9 - LEFT LANE CLOSURE



- LEGEND:**
- TEMPORARY PRECAST CONCRETE BARRIER (DOUBLE FACE)
 - REFLECTORIZED DRUM
 - ⊙ CONES
 - Ⓟ DETAIL POLICE
 - ▬ TYPE III BARRICADE
 - Ⓢ SIGN
 - Ⓜ FLASHING ARROW BOARD

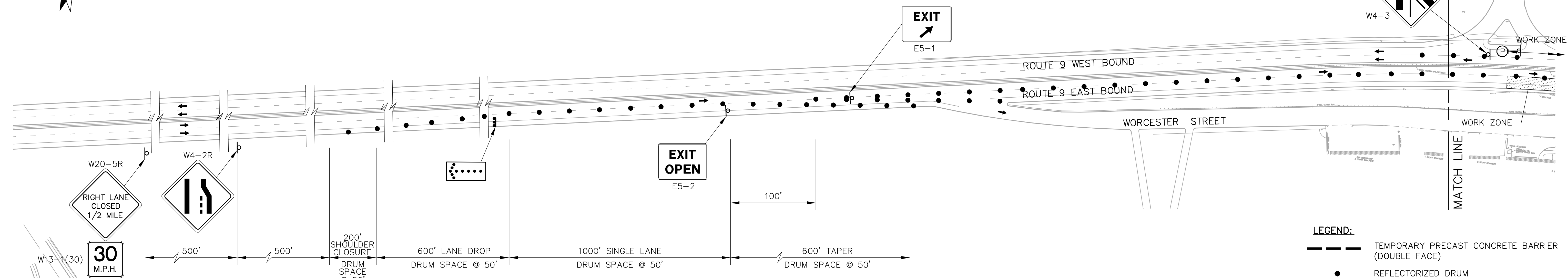
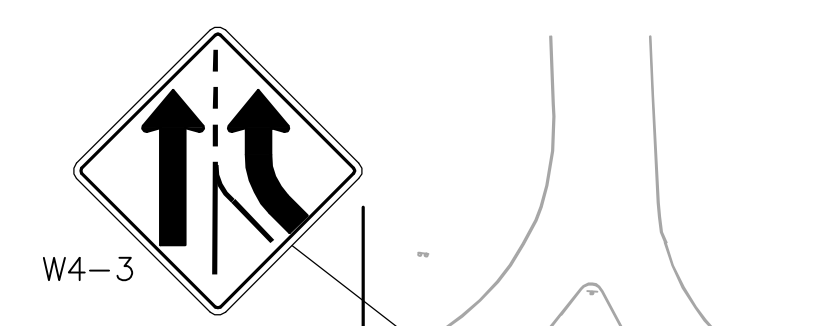
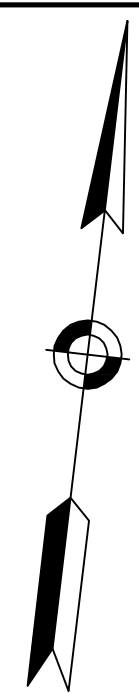
NOTES:
1. ROUTE 9 LANE CLOSURE SHALL BE ESTABLISHED ONLY FOR THE HOURS FROM 10:00 PM TO 6:00 AM WHEN AUTHORIZED IN WRITING BY THE RESIDENT ENGINEER.



**WELLESLEY
CEDAR STREET OVER ROUTE 9**

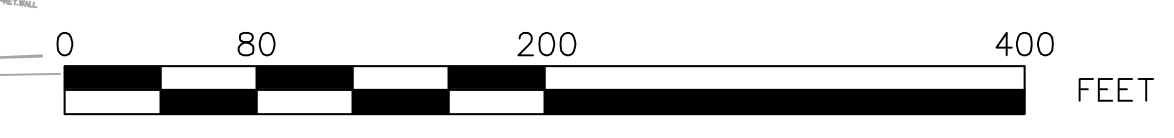
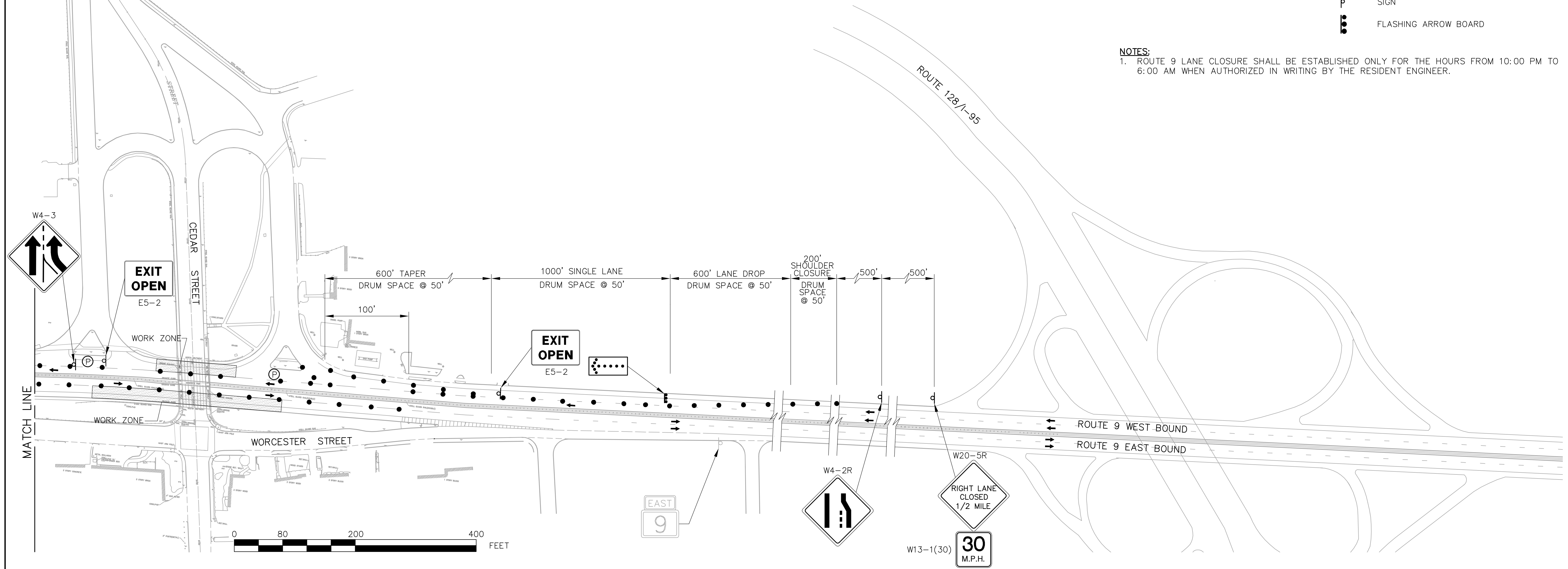
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	26	72
PROJECT FILE NO.		604007	

TEMPORARY TRAFFIC CONTROL PLAN
ROUTE 9 - RIGHT LANE CLOSURE



- LEGEND:**
- TEMPORARY PRECAST CONCRETE BARRIER (DOUBLE FACE)
 - REFLECTORIZED DRUM
 - ⊙ CONES
 - Ⓟ DETAIL POLICE
 - ▬ TYPE III BARRICADE
 - Ⓛ SIGN
 - ⦿ FLASHING ARROW BOARD

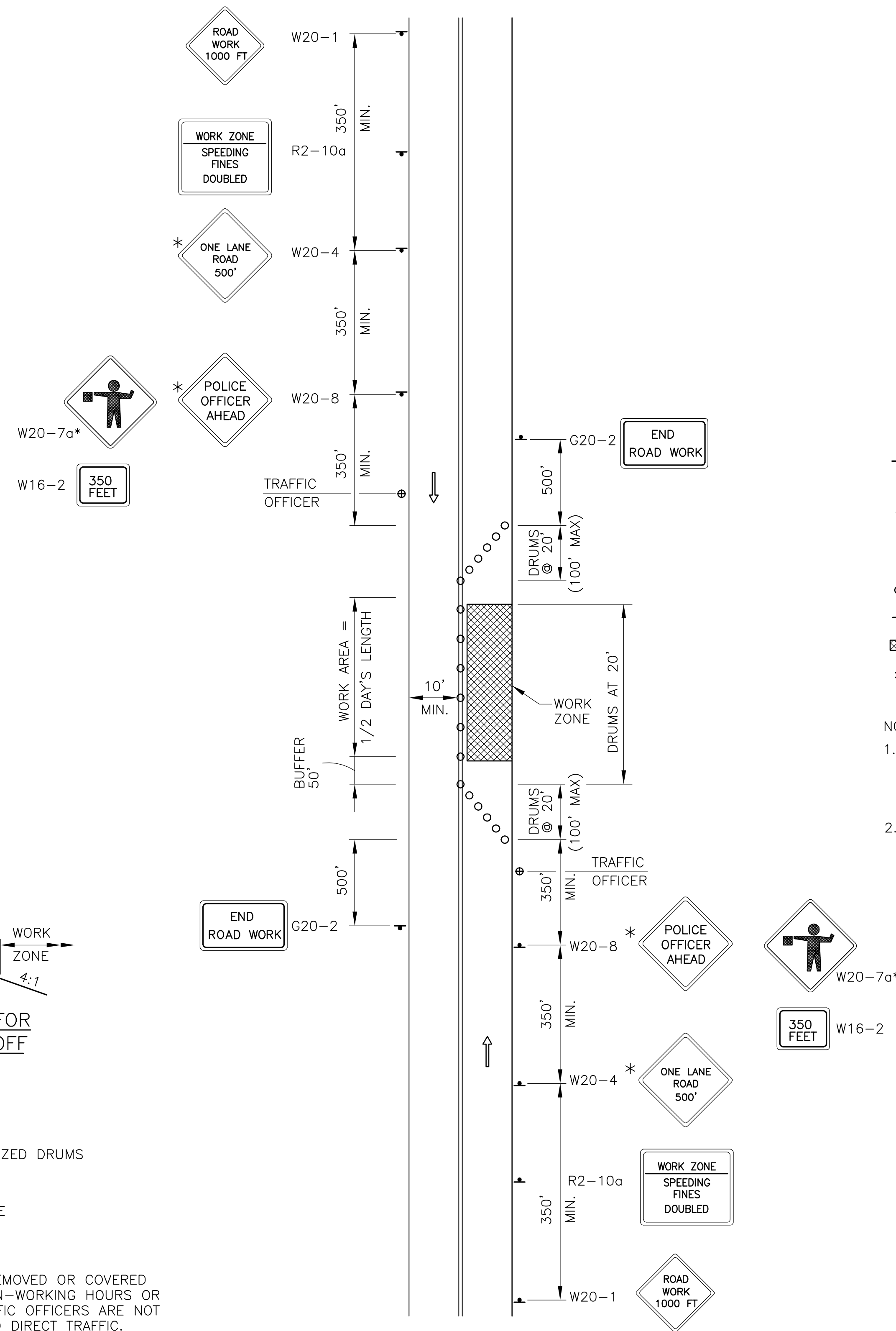
NOTES:
1. ROUTE 9 LANE CLOSURE SHALL BE ESTABLISHED ONLY FOR THE HOURS FROM 10:00 PM TO 6:00 AM WHEN AUTHORIZED IN WRITING BY THE RESIDENT ENGINEER.



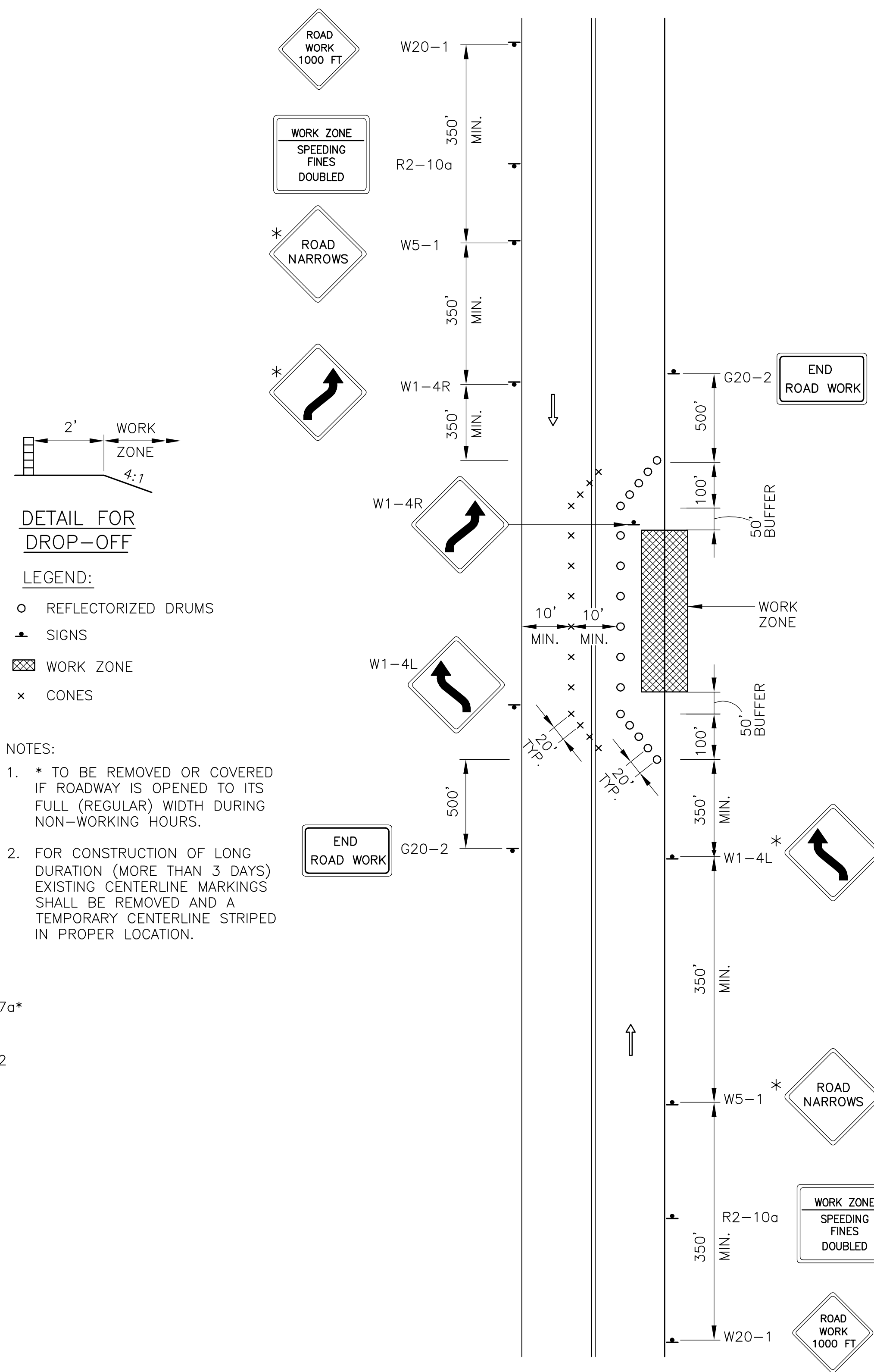
WELLESLEY
CEDAR STREET OVER ROUTE 9

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	27	72
PROJECT FILE NO. 604007			

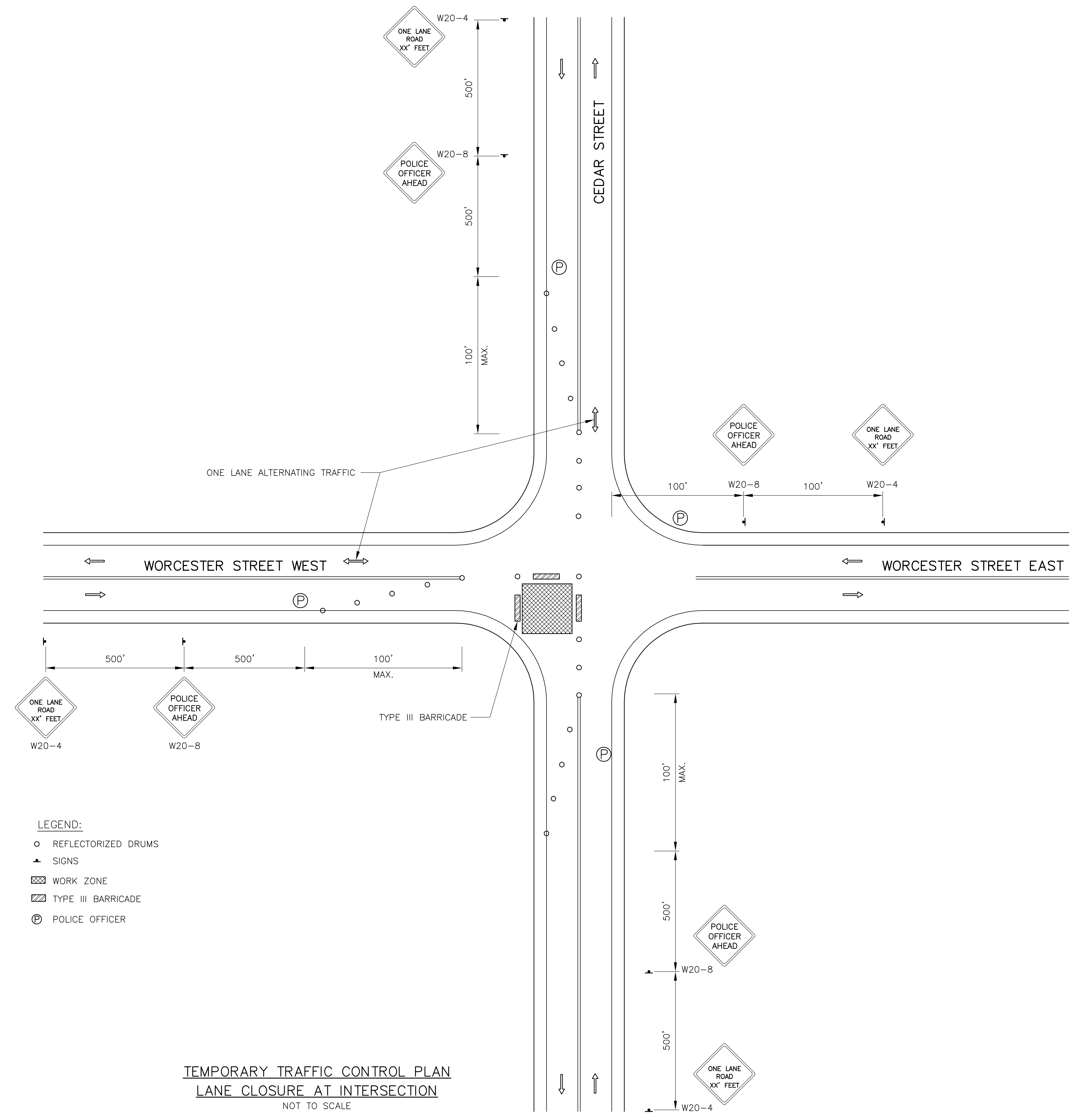
TEMPORARY TRAFFIC CONTROL PLAN
CEDAR STREET / WORCESTER STREET LANE CLOSURE

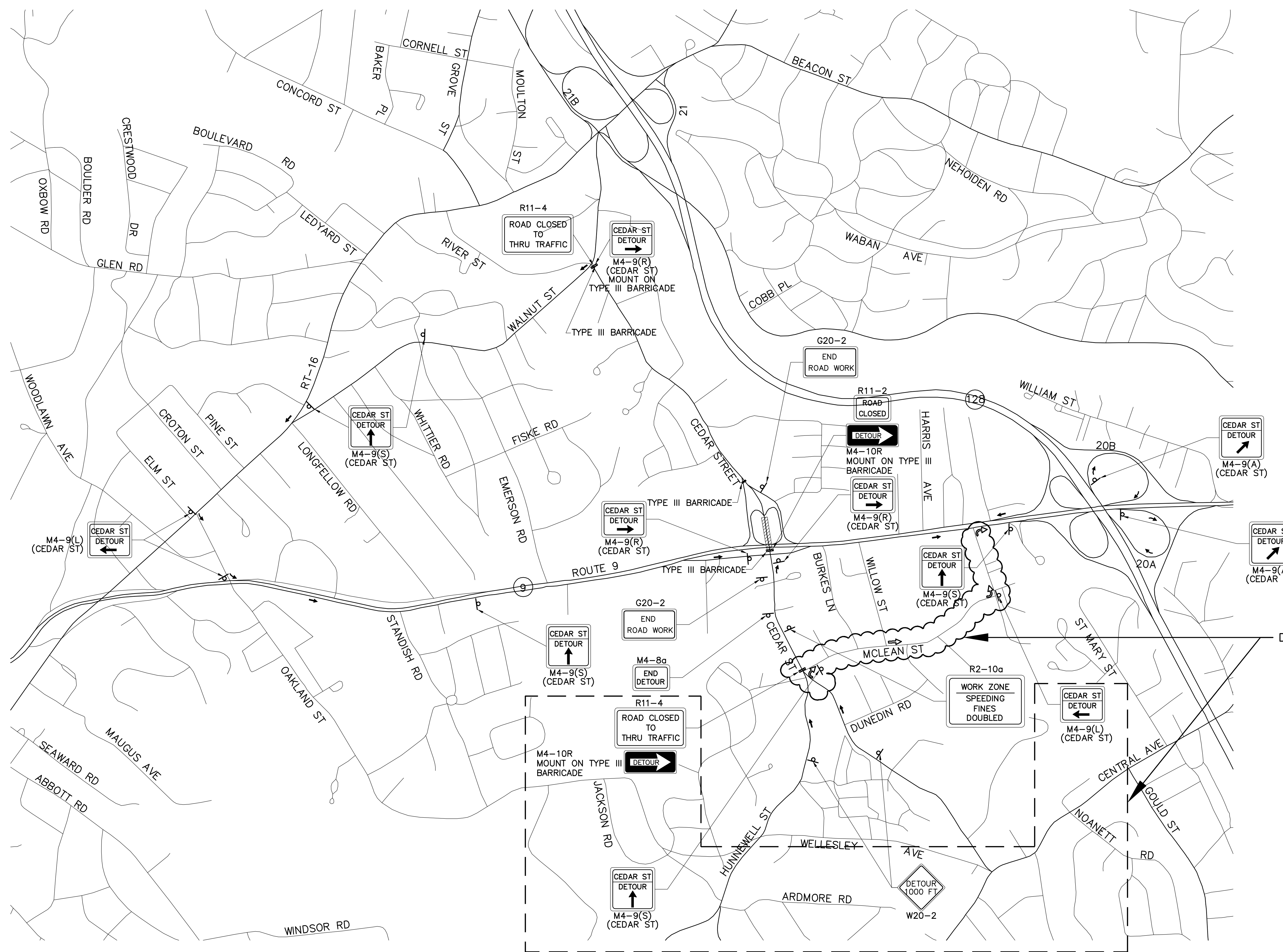
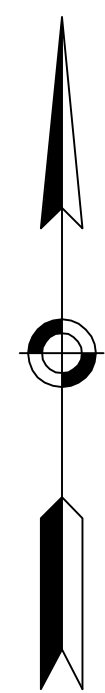


LANE CLOSURE TRAFFIC CONTROL DETAIL
NOT TO SCALE



2-WAY PARTIAL LANE CLOSURE
TRAFFIC CONTROL DETAIL
NOT TO SCALE





--- ALTERNATE DETOUR ROUTE
 TO BE IMPLEMENTED BY MASS DOT
 RESIDENT ENGINEER IN COORDINATION
 WITH WELLESLEY POLICE DEPARTMENT

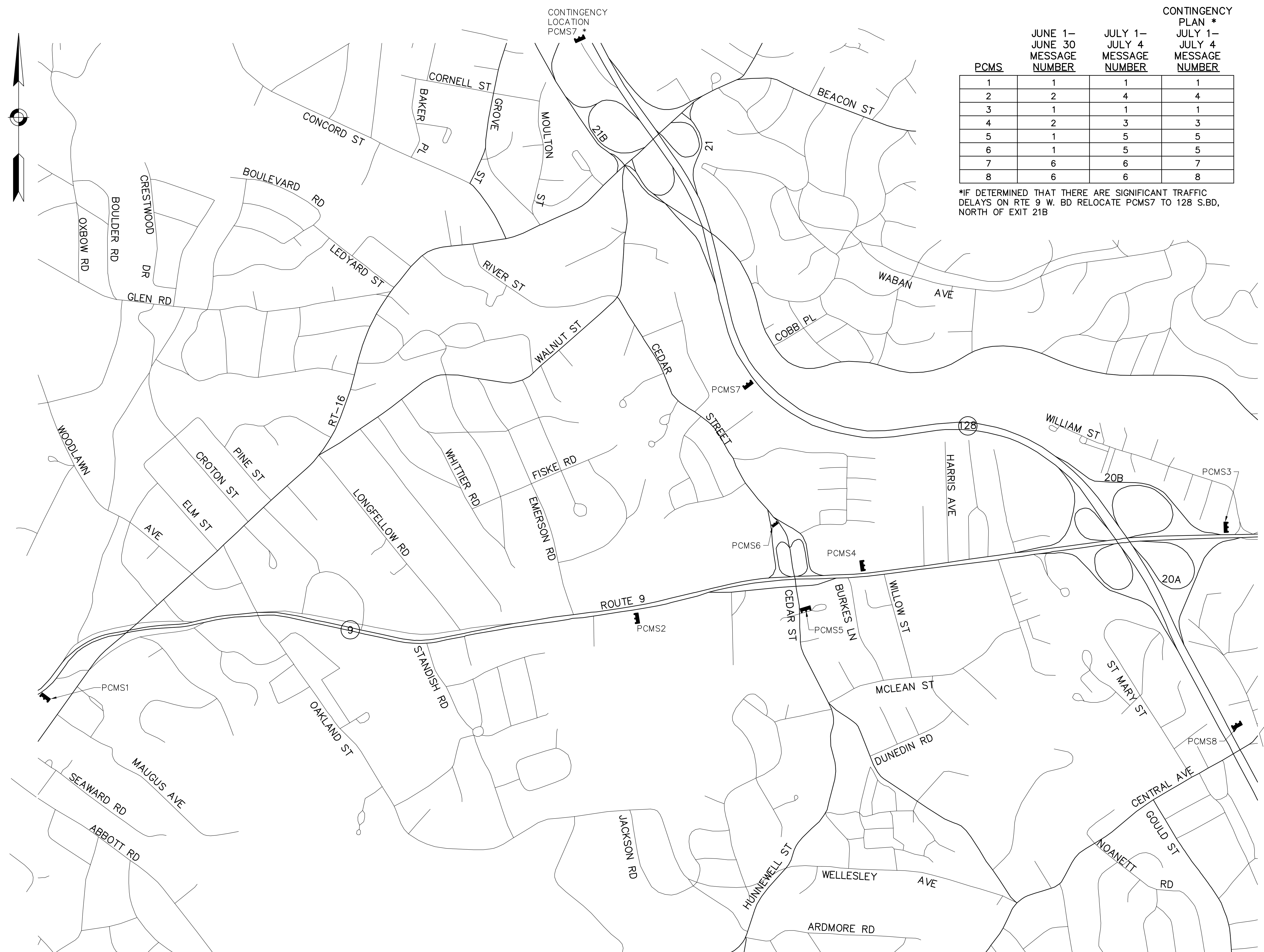
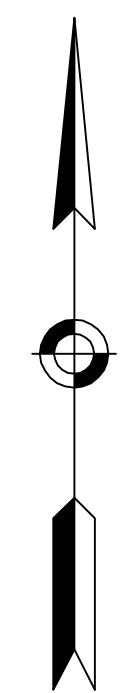
**WELLESLEY
CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	30	72
PROJECT FILE NO.		604007	

**TEMPORARY TRAFFIC CONTROL PLAN
PCMS PLAN**

PCMS	CONTINGENCY PLAN *		
	JUNE 1- JUNE 30 MESSAGE NUMBER	JULY 1- JULY 4 MESSAGE NUMBER	JULY 1- JULY 4 MESSAGE NUMBER
1	1	1	1
2	2	4	4
3	1	1	1
4	2	3	3
5	1	5	5
6	1	5	5
7	6	6	7
8	6	6	8

*IF DETERMINED THAT THERE ARE SIGNIFICANT TRAFFIC DELAYS ON RTE 9 W. BD RELOCATE PCMS7 TO 128 S.BD, NORTH OF EXIT 21B



MESSAGE 1 R O U T E 9 &
C E D A R S T
C L O S E D

7 / 1 1 0 P M
T H R U
7 / 4 1 0 P M

MESSAGE 2 D E L A Y S
C E D A R S T
E X I T

7 / 2 - 7 / 4
S E E K A L T
R O U T E

MESSAGE 3 C A U T I O N
S L O W ! ! !
D E T O U R

S H A R P
C U R V E
A H E A D

MESSAGE 4 A L L
T R A F F I C

U S E
R A M P
A H E A D

MESSAGE 5 R O A D
C L O S E D
A H E A D

F O L L O W
D E T O U R
A H E A D

MESSAGE 6 E X P E C T
D E L A Y S
R T E 9 W

J U L Y 2
T H R U
J U L Y 4

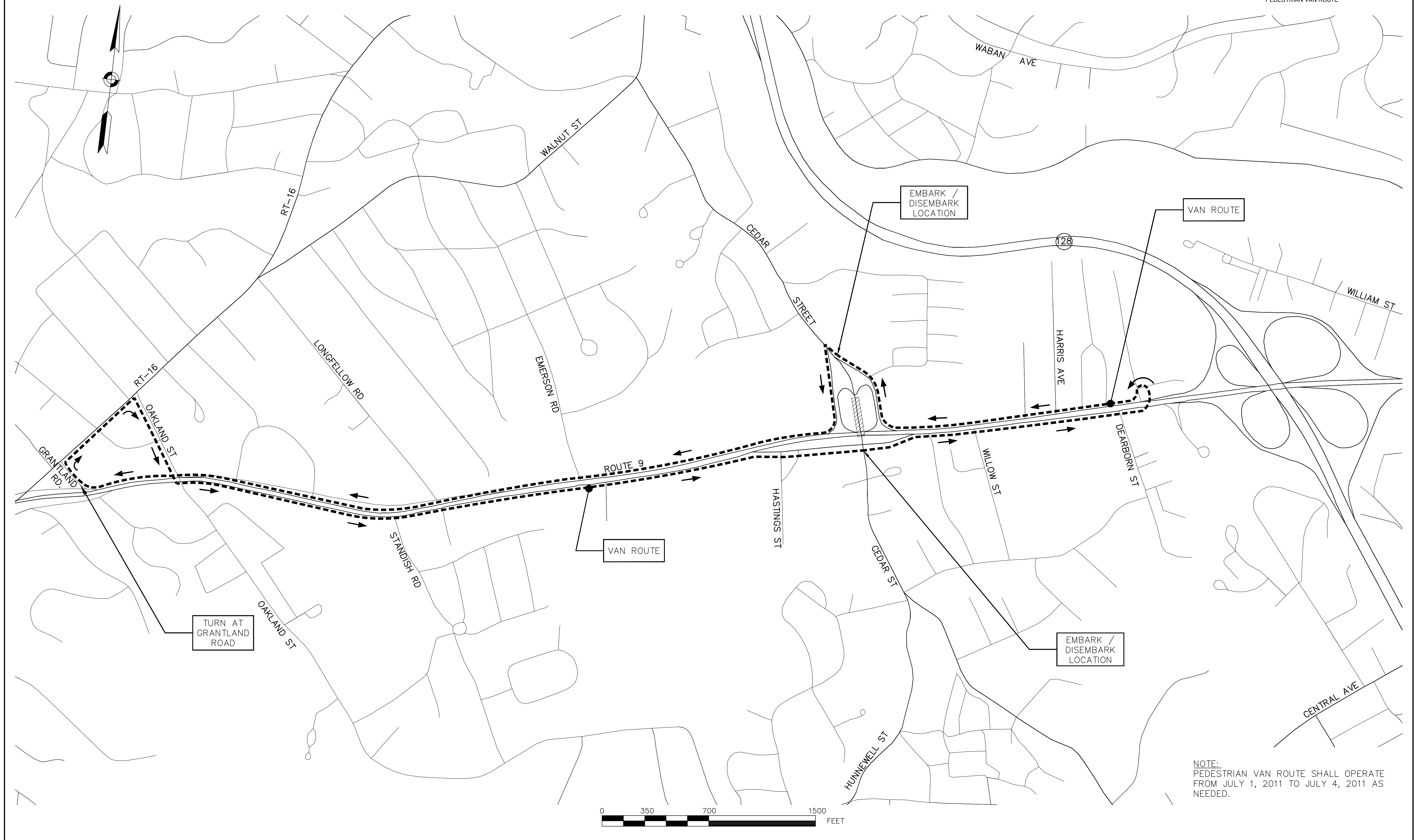
FOR CONTINGENCY PLAN

MESSAGE 7 R T E 9
W E S T B N D
D E L A Y S

U S E
E X I T 2 1 B
R T E 1 6 W

MESSAGE 8 R T E 9
W E S T B N D
D E L A Y S

U S E
E X I T 2 1
R T E 1 6 W

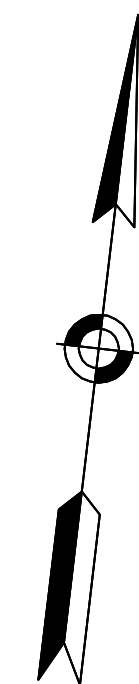


NOTE:
PEDESTRIAN VAN ROUTE SHALL OPERATE
FROM JULY 1, 2011 TO JULY 4, 2011 AS
NEEDED.

WELLESLEY
CEDAR STREET OVER ROUTE 9

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	32	72
PROJECT FILE NO.		604007	

TEMPORARY TRAFFIC CONTROL PLAN
TEMPORARY ROUTE 9 PEDESTRIAN ROUTE

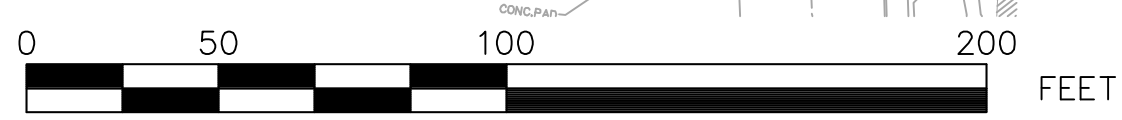
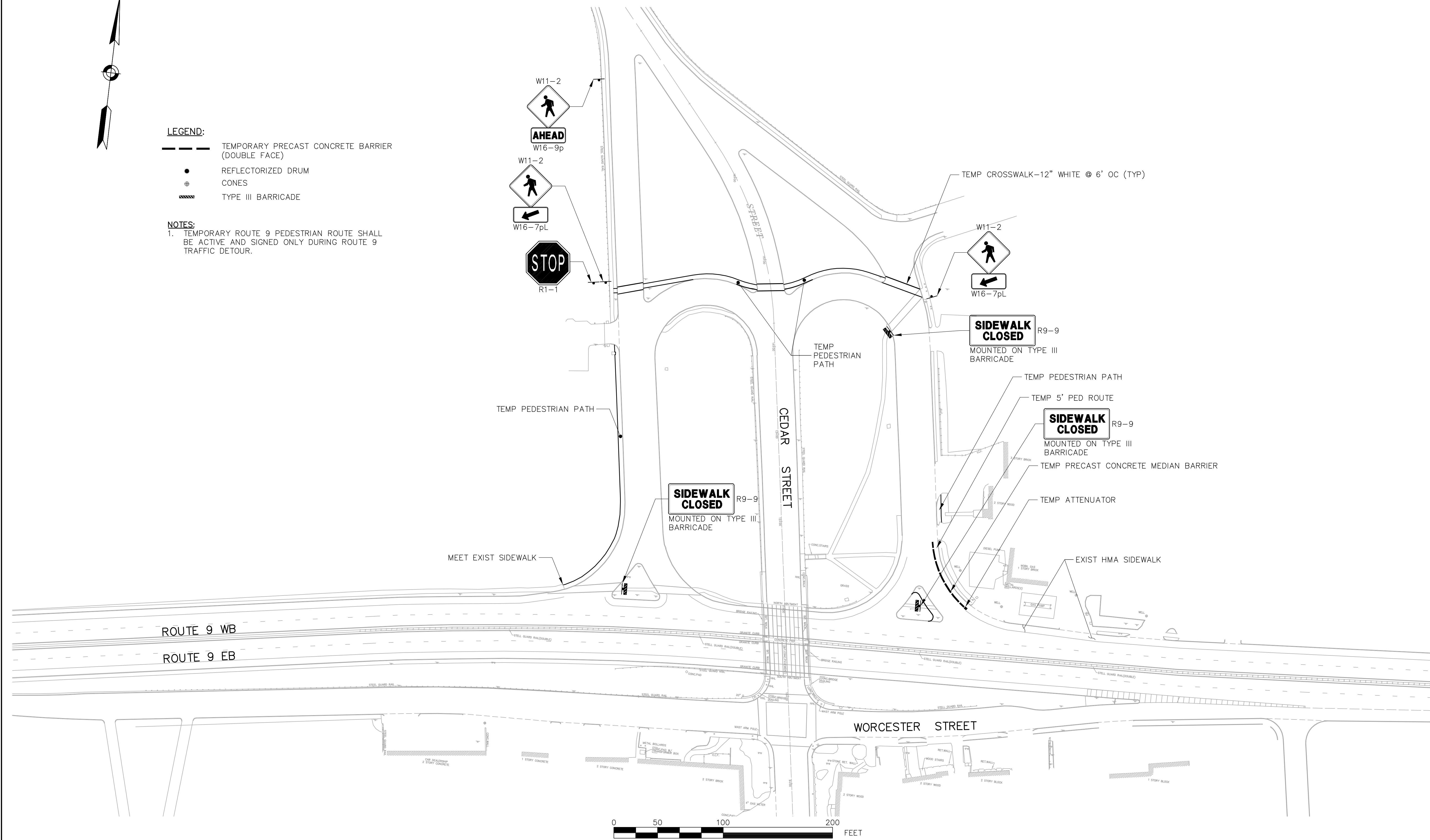


LEGEND:

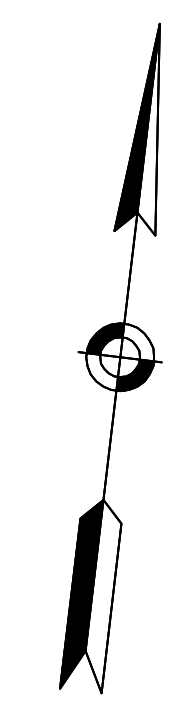
- TEMPORARY PRECAST CONCRETE BARRIER (DOUBLE FACE)
- REFLECTORIZED DRUM
- CONES
- TYPE III BARRICADE

NOTES:

1. TEMPORARY ROUTE 9 PEDESTRIAN ROUTE SHALL BE ACTIVE AND SIGNED ONLY DURING ROUTE 9 TRAFFIC DETOUR.

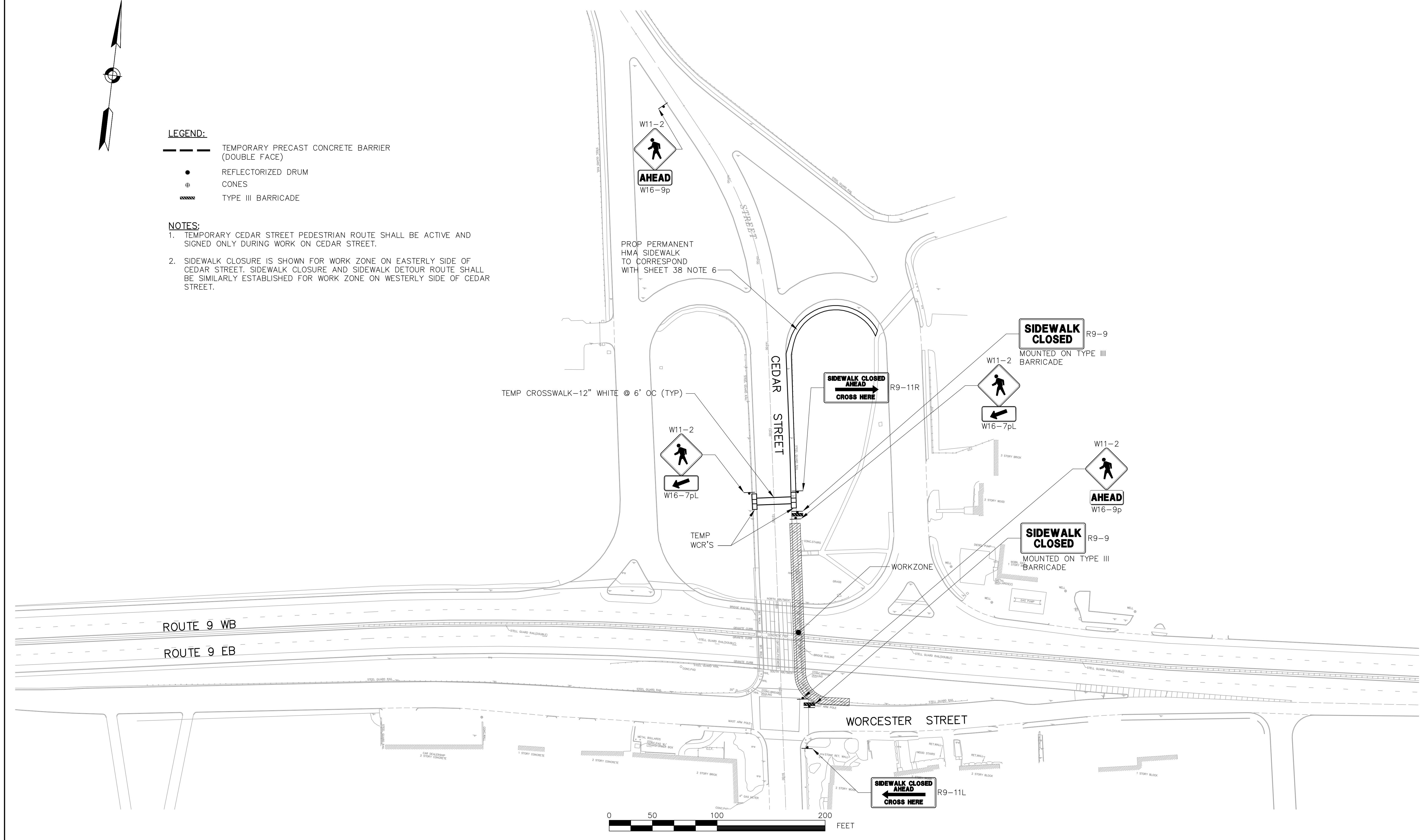


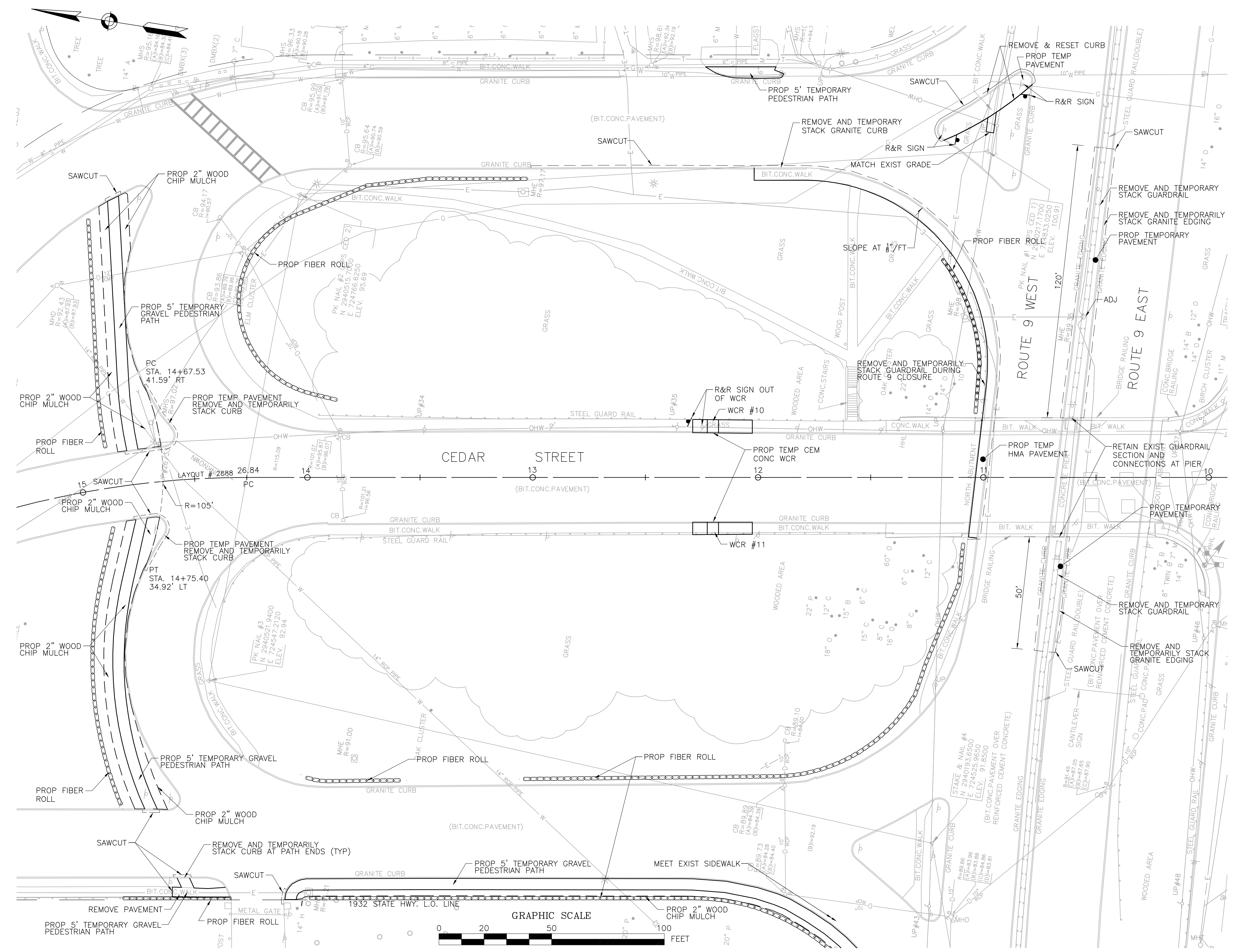
TEMPORARY TRAFFIC CONTROL PLAN
TEMPORARY CEDAR STREET PEDESTRIAN ROUTE



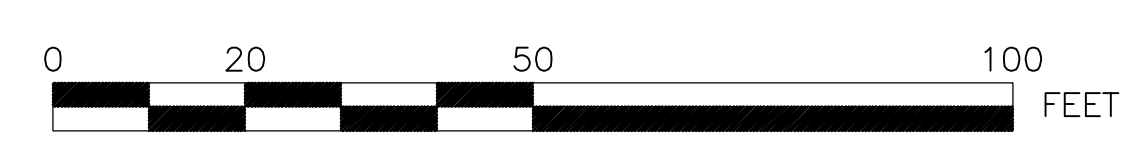
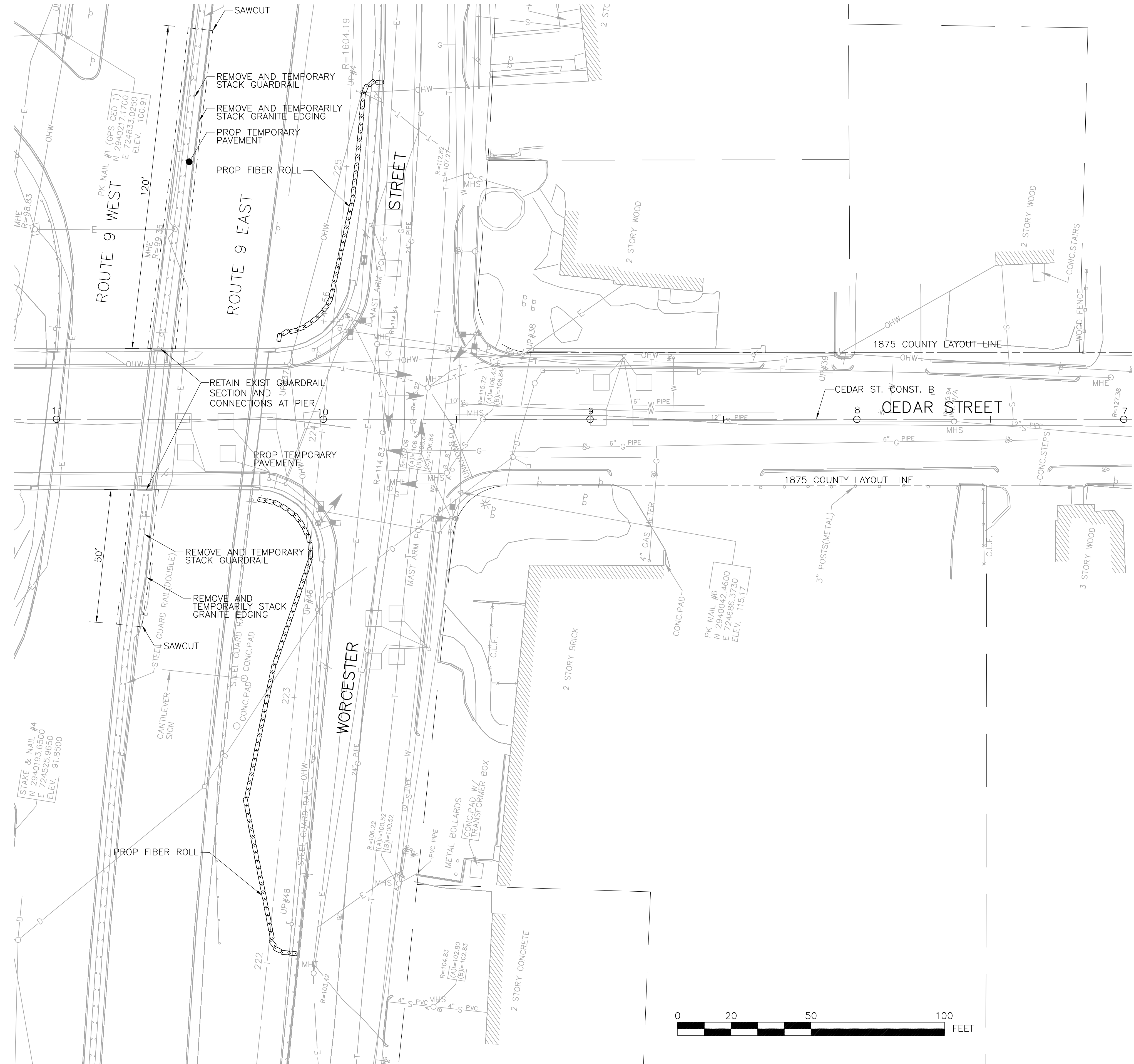
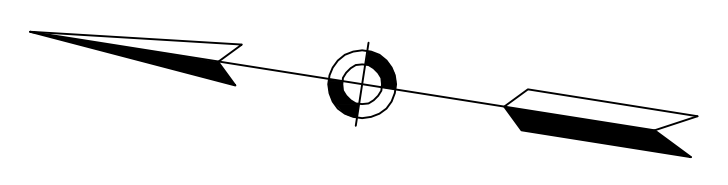
- LEGEND:**
- TEMPORARY PRECAST CONCRETE BARRIER (DOUBLE FACE)
 - REFLECTORIZED DRUM
 - ⊕ CONES
 - ▨ TYPE III BARRICADE

- NOTES:**
1. TEMPORARY CEDAR STREET PEDESTRIAN ROUTE SHALL BE ACTIVE AND SIGNED ONLY DURING WORK ON CEDAR STREET.
 2. SIDEWALK CLOSURE IS SHOWN FOR WORK ZONE ON EASTERLY SIDE OF CEDAR STREET. SIDEWALK CLOSURE AND SIDEWALK DETOUR ROUTE SHALL BE SIMILARLY ESTABLISHED FOR WORK ZONE ON WESTERLY SIDE OF CEDAR STREET.





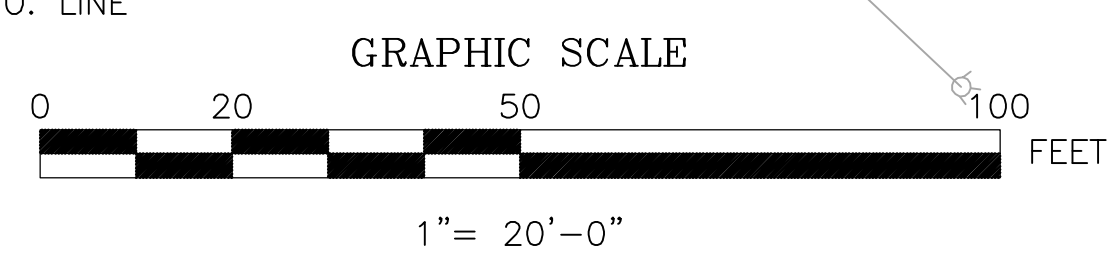
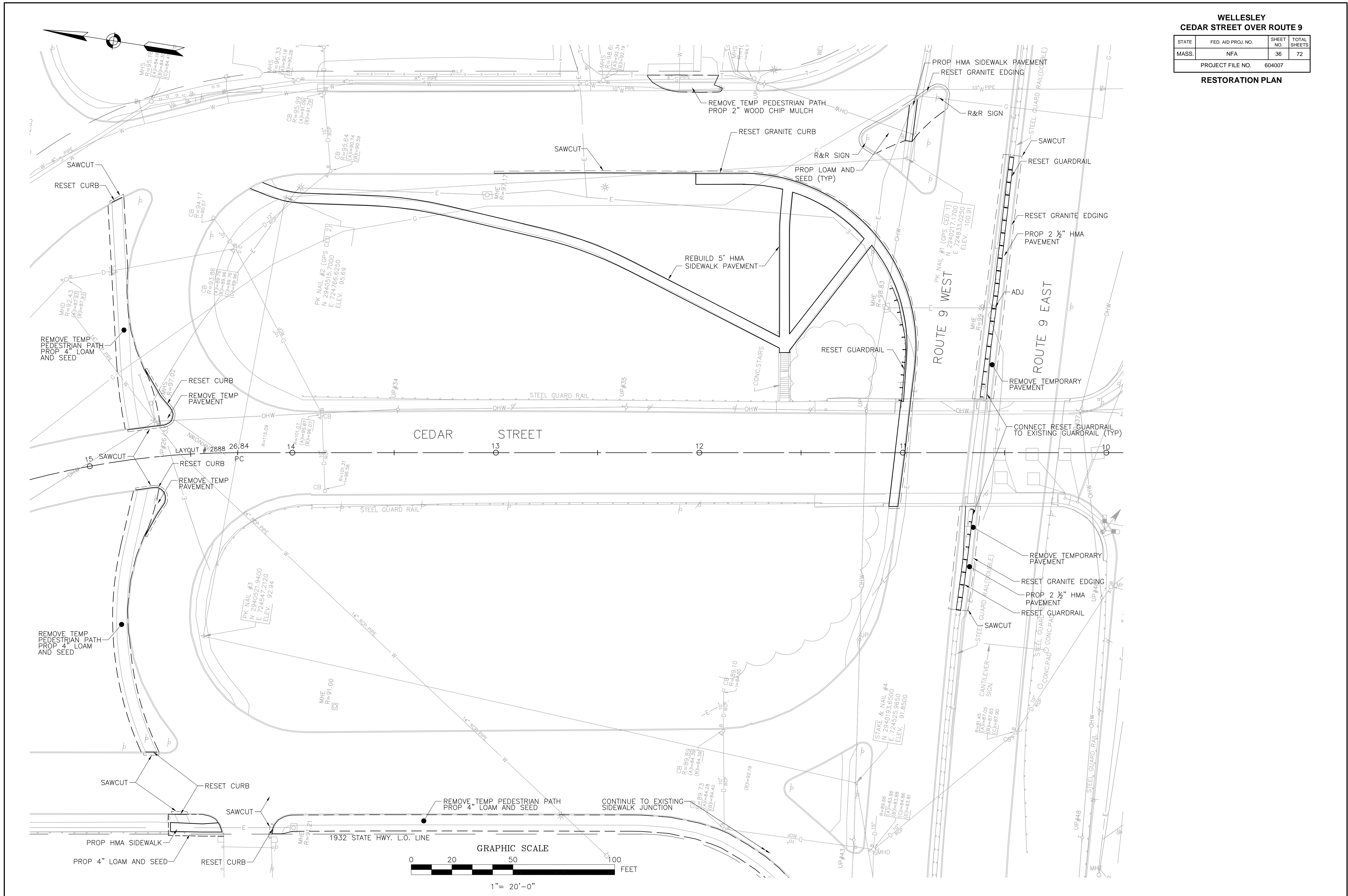
NOTE: 1. TEMPORARY PEDESTRIAN PATHS SHALL BE GRADED AT 1" PER FOOT (MAX) AT ALL JUNCTIONS WITH EXISTING PAVEMENT.
 2. TEMPORARY FENCE SHALL NOT BE INSTALLED UNTIL CEDAR STREET SIDEWALK ROUTE IS CONSTRUCTED. SEE CONSTRUCTION STAGING PLANS.



**WELLESLEY
CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	36	72
PROJECT FILE NO.		604007	

RESTORATION PLAN



**WELLESLEY
CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	37	72
PROJECT FILE NO. 604007			

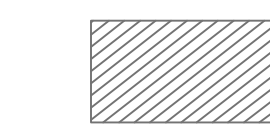
CONSTRUCTION STAGING
SHEET 1 OF 4

WORK PERIOD ENDING JUNE 20, 2011.

DAYTIME WORK HOURS 7:00 AM TO 3:30 PM AND/OR
NIGHT TIME WORK HOURS 10:00 PM – 6:00 AM TO BE COORDINATED WITH TOWN OF WELLESLEY
POLICE DEPARTMENT

1. INSTALL CONSTRUCTION ADVANCE WARNING SIGNS "ROADWAY WORK 1/2 MILE" AND PCMS
2. CONSTRUCT STABILIZED CONSTRUCTION EXIT POINT WITHIN PHASE 1 WORK ZONE.
3. ESTABLISH AND INSTALL TREE PROTECTION MEASURES.
4. EQUIP EXISTING CATCH BASINS WITHIN PAVED AREAS WITH WOVEN GEOTEXTILE INLET PROTECTION.
5. INSTALL FIBER ROLL.
6. INSTALL CATCH BASIN INLET PROTECTION (BLOCK AND GRAVEL WITHIN PHASE 1 WORK AREA).
7. LIMIT OF CLEARING AND GRUBBING.
8. APPLY STONE OR MULCH WITHIN PHASE 1 WORK ZONE AREA FOR TEMPORARY STABILIZATION.
9. CONSTRUCT BRIDGE WITHIN STAGING AREA.

STAGING/WORK AREA

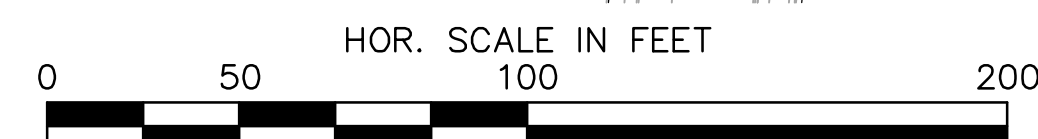
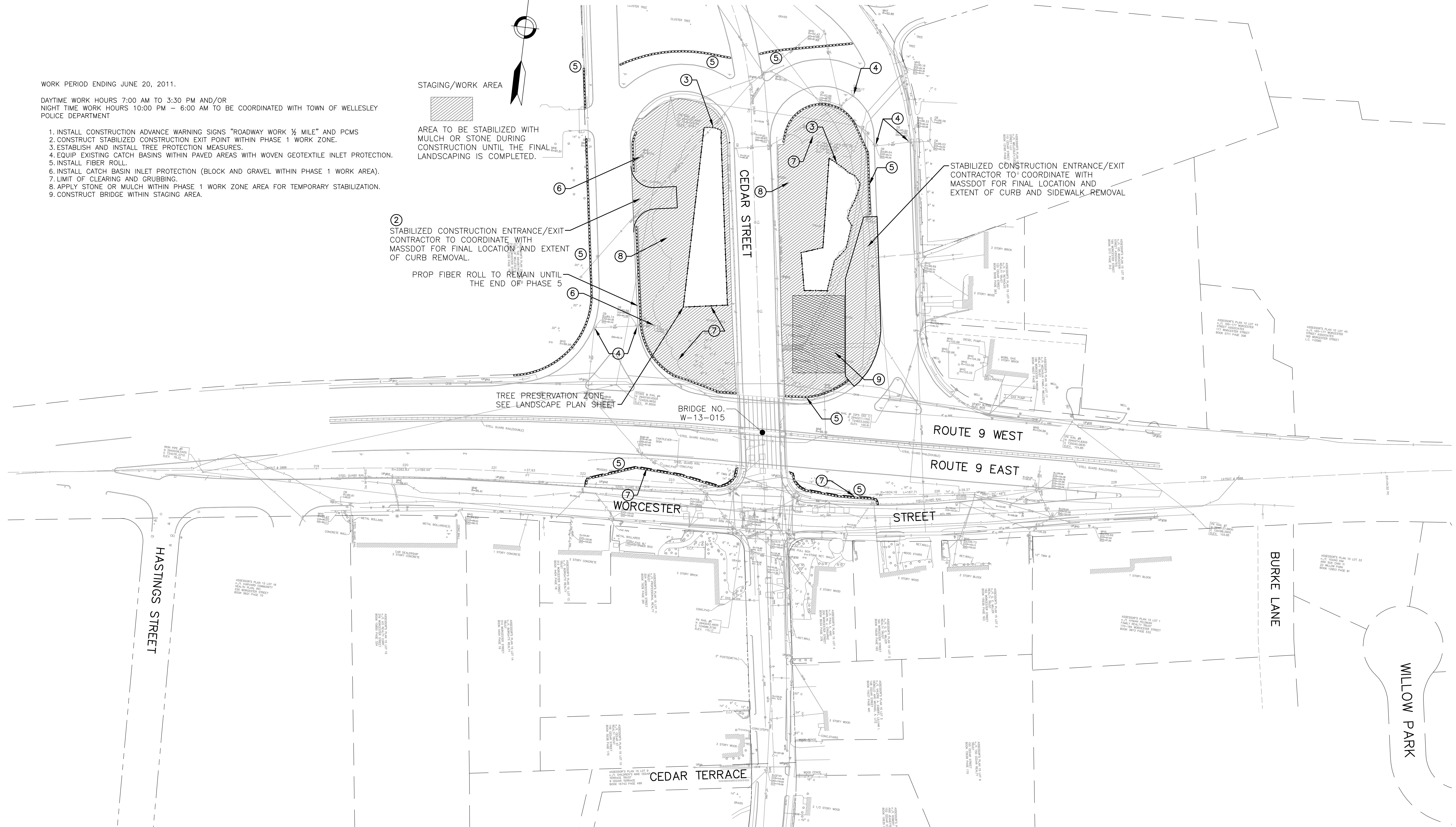


AREA TO BE STABILIZED WITH
MULCH OR STONE DURING
CONSTRUCTION UNTIL THE FINAL
LANDSCAPING IS COMPLETED.

② STABILIZED CONSTRUCTION ENTRANCE/EXIT
CONTRACTOR TO COORDINATE WITH
MASSDOT FOR FINAL LOCATION AND EXTENT
OF CURB REMOVAL.

PROP FIBER ROLL TO REMAIN UNTIL
THE END OF PHASE 5

STABILIZED CONSTRUCTION ENTRANCE/EXIT
CONTRACTOR TO COORDINATE WITH
MASSDOT FOR FINAL LOCATION AND
EXTENT OF CURB AND SIDEWALK REMOVAL



**WELLESLEY
CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	38	72
PROJECT FILE NO. 604007			

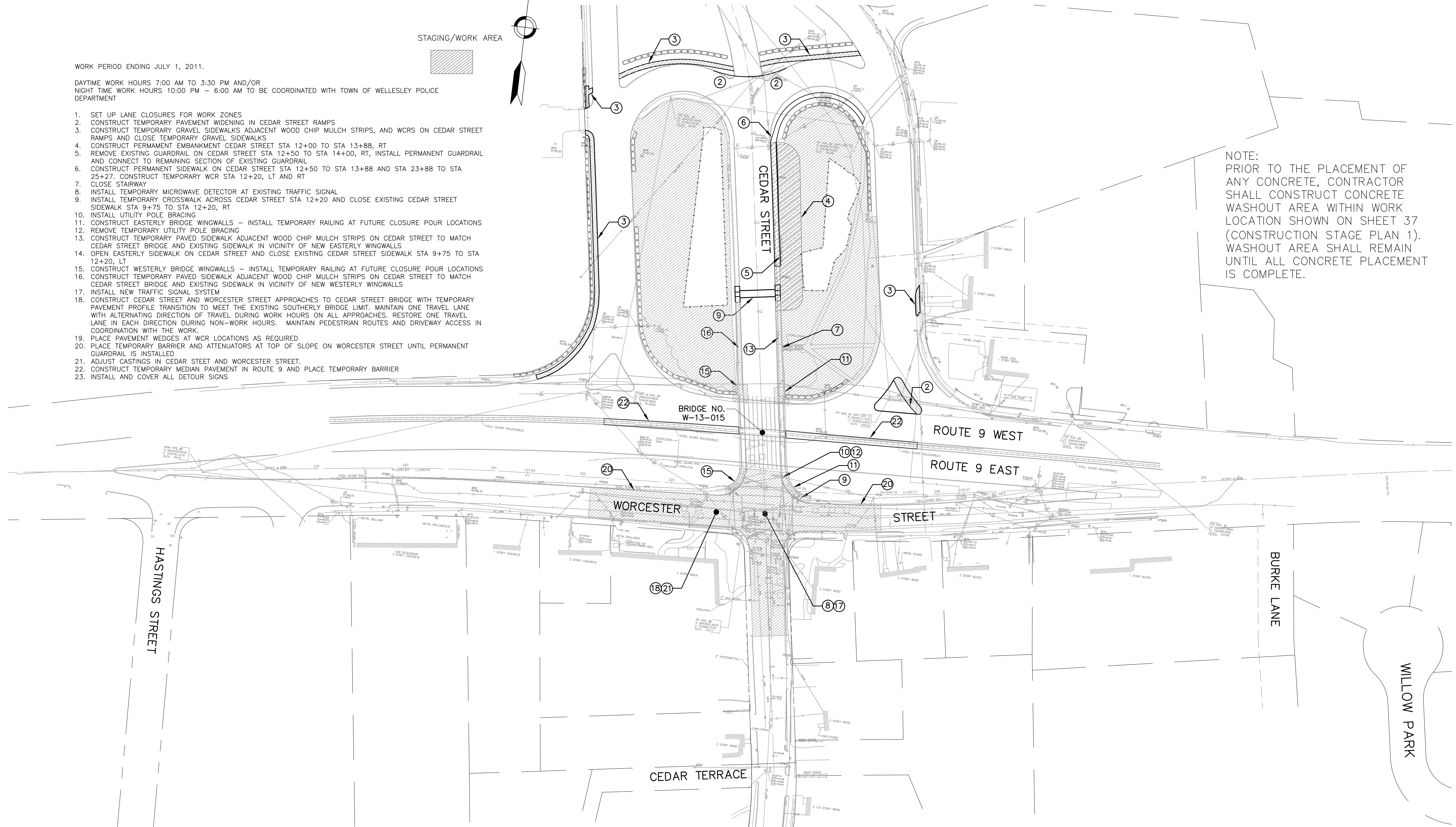
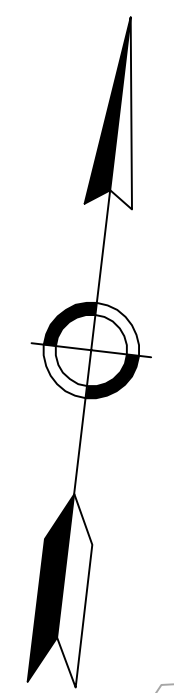
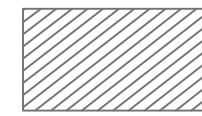
CONSTRUCTION STAGING
SHEET 2 OF 4

WORK PERIOD ENDING JULY 1, 2011.

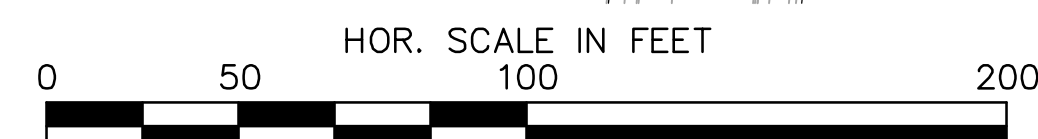
DAYTIME WORK HOURS 7:00 AM TO 3:30 PM AND/OR
NIGHT TIME WORK HOURS 10:00 PM – 6:00 AM TO BE COORDINATED WITH TOWN OF WELLESLEY POLICE DEPARTMENT

1. SET UP LANE CLOSURES FOR WORK ZONES
2. CONSTRUCT TEMPORARY PAVEMENT WIDENING IN CEDAR STREET RAMP
3. CONSTRUCT TEMPORARY GRAVEL SIDEWALKS ADJACENT WOOD CHIP MULCH STRIPS, AND WCRS ON CEDAR STREET RAMP AND CLOSE TEMPORARY GRAVEL SIDEWALKS
4. CONSTRUCT PERMANENT EMBANKMENT CEDAR STREET STA 12+00 TO STA 13+88, RT
5. REMOVE EXISTING GUARDRAIL ON CEDAR STREET STA 12+50 TO STA 14+00, RT, INSTALL PERMANENT GUARDRAIL AND CONNECT TO REMAINING SECTION OF EXISTING GUARDRAIL
6. CONSTRUCT PERMANENT SIDEWALK ON CEDAR STREET STA 12+50 TO STA 13+88 AND STA 23+88 TO STA 25+27. CONSTRUCT TEMPORARY WCR STA 12+20, LT AND RT
7. CLOSE STAIRWAY
8. INSTALL TEMPORARY MICROWAVE DETECTOR AT EXISTING TRAFFIC SIGNAL
9. INSTALL TEMPORARY CROSSWALK ACROSS CEDAR STREET STA 12+20 AND CLOSE EXISTING CEDAR STREET SIDEWALK STA 9+75 TO STA 12+20, RT
10. INSTALL UTILITY POLE BRACING
11. CONSTRUCT EASTERLY BRIDGE WINGWALLS – INSTALL TEMPORARY RAILING AT FUTURE CLOSURE POUR LOCATIONS
12. REMOVE TEMPORARY UTILITY POLE BRACING
13. CONSTRUCT TEMPORARY PAVED SIDEWALK ADJACENT WOOD CHIP MULCH STRIPS ON CEDAR STREET TO MATCH CEDAR STREET BRIDGE AND EXISTING SIDEWALK IN VICINITY OF NEW EASTERLY WINGWALLS
14. OPEN EASTERLY SIDEWALK ON CEDAR STREET AND CLOSE EXISTING CEDAR STREET SIDEWALK STA 9+75 TO STA 12+20, LT
15. CONSTRUCT WESTERLY BRIDGE WINGWALLS – INSTALL TEMPORARY RAILING AT FUTURE CLOSURE POUR LOCATIONS
16. CONSTRUCT TEMPORARY PAVED SIDEWALK ADJACENT WOOD CHIP MULCH STRIPS ON CEDAR STREET TO MATCH CEDAR STREET BRIDGE AND EXISTING SIDEWALK IN VICINITY OF NEW WESTERLY WINGWALLS
17. INSTALL NEW TRAFFIC SIGNAL SYSTEM
18. CONSTRUCT CEDAR STREET AND WORCESTER STREET APPROACHES TO CEDAR STREET BRIDGE WITH TEMPORARY PAVEMENT PROFILE TRANSITION TO MEET THE EXISTING SOUTHERLY BRIDGE LIMIT. MAINTAIN ONE TRAVEL LANE WITH ALTERNATING DIRECTION OF TRAVEL DURING WORK HOURS ON ALL APPROACHES. RESTORE ONE TRAVEL LANE IN EACH DIRECTION DURING NON-WORK HOURS. MAINTAIN PEDESTRIAN ROUTES AND DRIVEWAY ACCESS IN COORDINATION WITH THE WORK.
19. PLACE PAVEMENT WEDGES AT WCR LOCATIONS AS REQUIRED
20. PLACE TEMPORARY BARRIER AND ATTENUATORS AT TOP OF SLOPE ON WORCESTER STREET UNTIL PERMANENT GUARDRAIL IS INSTALLED
21. ADJUST CASTINGS IN CEDAR STREET AND WORCESTER STREET.
22. CONSTRUCT TEMPORARY MEDIAN PAVEMENT IN ROUTE 9 AND PLACE TEMPORARY BARRIER
23. INSTALL AND COVER ALL DETOUR SIGNS

STAGING/WORK AREA



NOTE:
PRIOR TO THE PLACEMENT OF ANY CONCRETE, CONTRACTOR SHALL CONSTRUCT CONCRETE WASHOUT AREA WITHIN WORK LOCATION SHOWN ON SHEET 37 (CONSTRUCTION STAGE PLAN 1). WASHOUT AREA SHALL REMAIN UNTIL ALL CONCRETE PLACEMENT IS COMPLETE.



**WELLESLEY
CEDAR STREET OVER ROUTE 9**

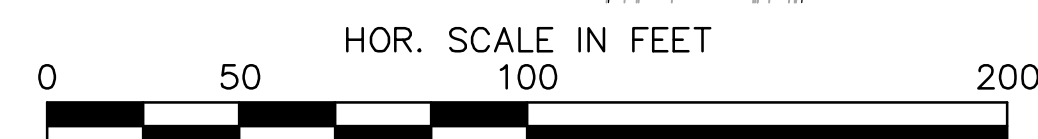
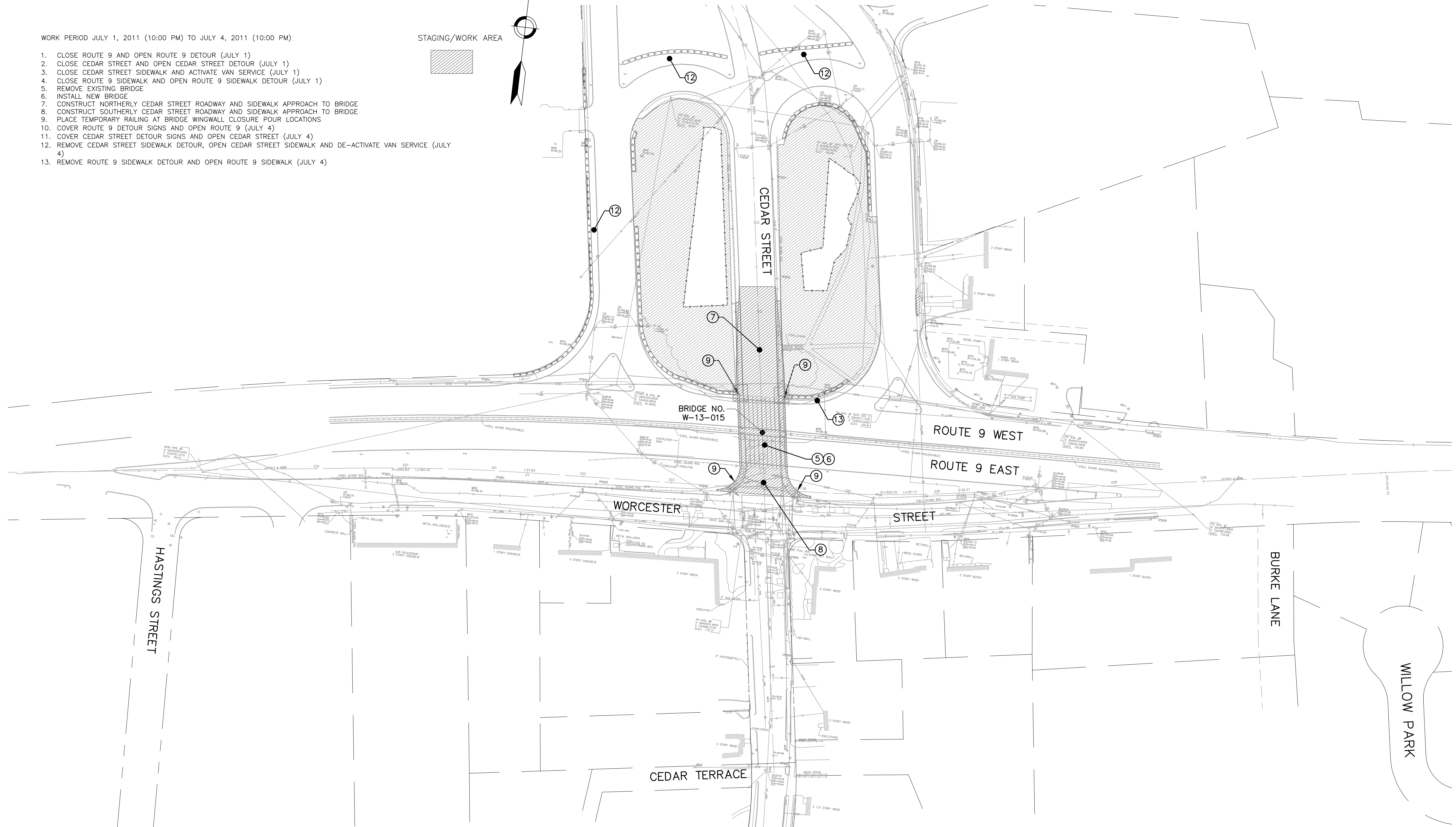
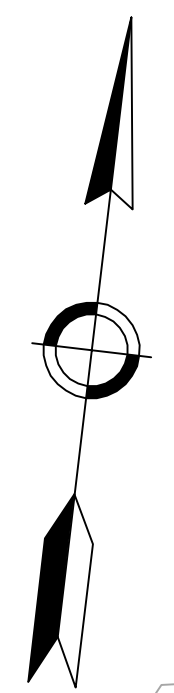
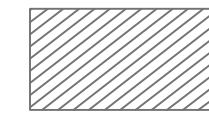
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	39	72
PROJECT FILE NO.		604007	

CONSTRUCTION STAGING
SHEET 3 OF 4

WORK PERIOD JULY 1, 2011 (10:00 PM) TO JULY 4, 2011 (10:00 PM)

1. CLOSE ROUTE 9 AND OPEN ROUTE 9 DETOUR (JULY 1)
2. CLOSE CEDAR STREET AND OPEN CEDAR STREET DETOUR (JULY 1)
3. CLOSE CEDAR STREET SIDEWALK AND ACTIVATE VAN SERVICE (JULY 1)
4. CLOSE ROUTE 9 SIDEWALK AND OPEN ROUTE 9 SIDEWALK DETOUR (JULY 1)
5. REMOVE EXISTING BRIDGE
6. INSTALL NEW BRIDGE
7. CONSTRUCT NORTHERLY CEDAR STREET ROADWAY AND SIDEWALK APPROACH TO BRIDGE
8. CONSTRUCT SOUTHERLY CEDAR STREET ROADWAY AND SIDEWALK APPROACH TO BRIDGE
9. PLACE TEMPORARY RAILING AT BRIDGE WINGWALL CLOSURE POUR LOCATIONS
10. COVER ROUTE 9 DETOUR SIGNS AND OPEN ROUTE 9 (JULY 4)
11. COVER CEDAR STREET DETOUR SIGNS AND OPEN CEDAR STREET (JULY 4)
12. REMOVE CEDAR STREET SIDEWALK DETOUR, OPEN CEDAR STREET SIDEWALK AND DE-ACTIVATE VAN SERVICE (JULY 4)
13. REMOVE ROUTE 9 SIDEWALK DETOUR AND OPEN ROUTE 9 SIDEWALK (JULY 4)

STAGING/WORK AREA



**WELLESLEY
CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	40	72
PROJECT FILE NO. 604007			

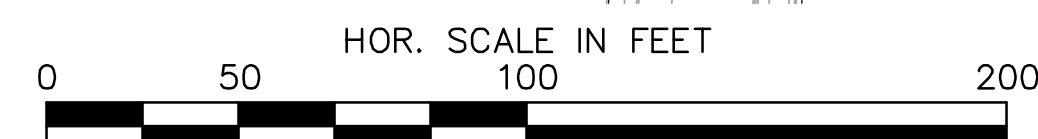
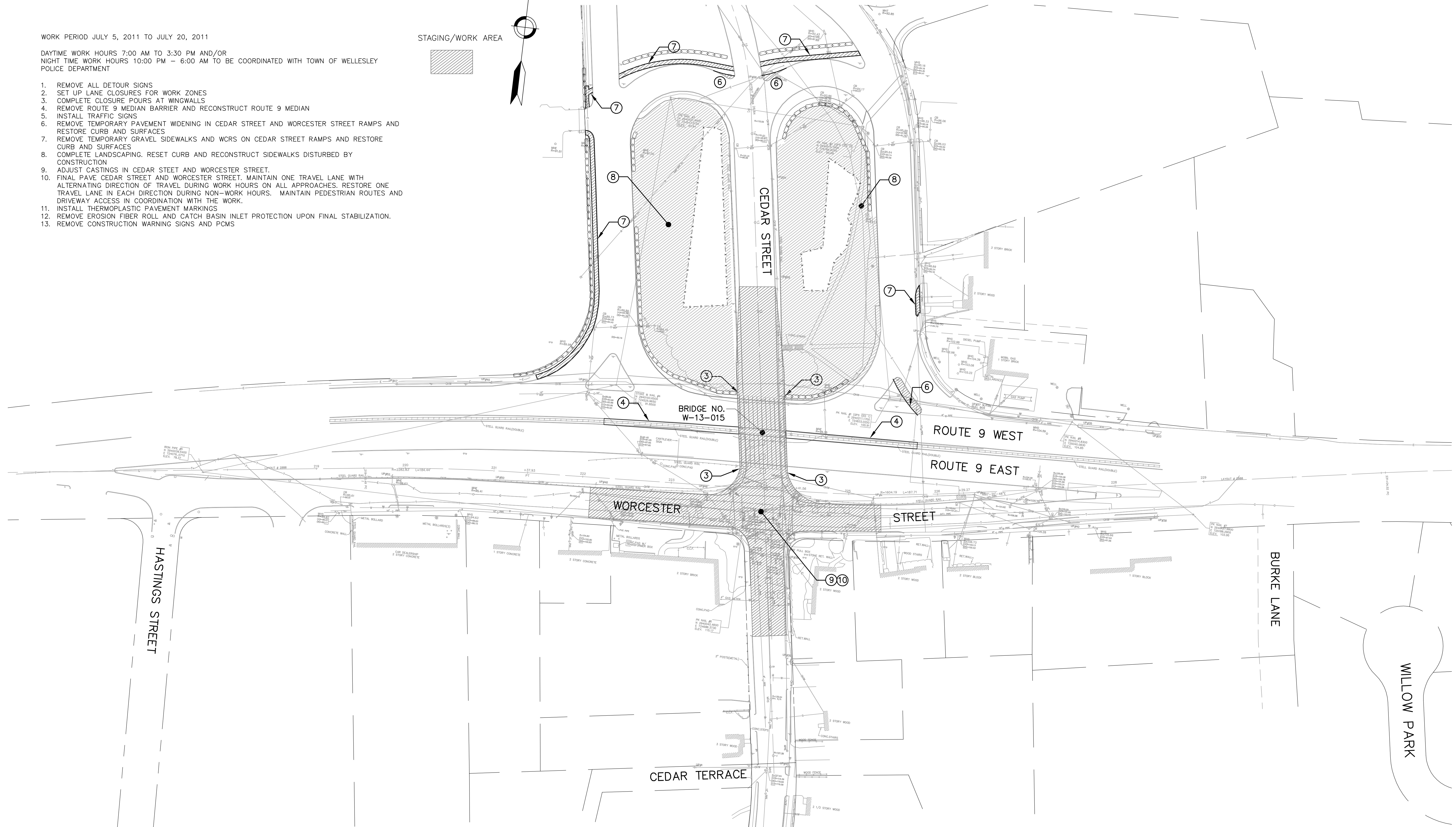
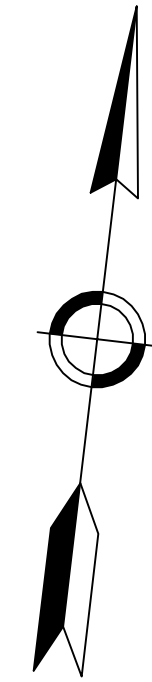
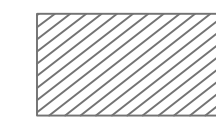
CONSTRUCTION STAGING
SHEET 4 OF 4

WORK PERIOD JULY 5, 2011 TO JULY 20, 2011

DAYTIME WORK HOURS 7:00 AM TO 3:30 PM AND/OR
NIGHT TIME WORK HOURS 10:00 PM – 6:00 AM TO BE COORDINATED WITH TOWN OF WELLESLEY
POLICE DEPARTMENT

1. REMOVE ALL DETOUR SIGNS
2. SET UP LANE CLOSURES FOR WORK ZONES
3. COMPLETE CLOSURE POURS AT WINGWALLS
4. REMOVE ROUTE 9 MEDIAN BARRIER AND RECONSTRUCT ROUTE 9 MEDIAN
5. INSTALL TRAFFIC SIGNS
6. REMOVE TEMPORARY PAVEMENT WIDENING IN CEDAR STREET AND WORCESTER STREET RAMPS AND RESTORE CURB AND SURFACES
7. REMOVE TEMPORARY GRAVEL SIDEWALKS AND WCRS ON CEDAR STREET RAMPS AND RESTORE CURB AND SURFACES
8. COMPLETE LANDSCAPING. RESET CURB AND RECONSTRUCT SIDEWALKS DISTURBED BY CONSTRUCTION
9. ADJUST CASTINGS IN CEDAR STREET AND WORCESTER STREET.
10. FINAL PAVE CEDAR STREET AND WORCESTER STREET. MAINTAIN ONE TRAVEL LANE WITH ALTERNATING DIRECTION OF TRAVEL DURING WORK HOURS ON ALL APPROACHES. RESTORE ONE TRAVEL LANE IN EACH DIRECTION DURING NON-WORK HOURS. MAINTAIN PEDESTRIAN ROUTES AND DRIVEWAY ACCESS IN COORDINATION WITH THE WORK.
11. INSTALL THERMOPLASTIC PAVEMENT MARKINGS
12. REMOVE EROSION FIBER ROLL AND CATCH BASIN INLET PROTECTION UPON FINAL STABILIZATION.
13. REMOVE CONSTRUCTION WARNING SIGNS AND PCMS

STAGING/WORK AREA



SIGN SUMMARY TABLE

IDENTIFICATION NUMBER	SIZE OF SIGN (INCH)		TEXT	COLOR			NUMBER OF SIGNS REQUIRED	POST SIZE & NUMBER REQUIRED***	UNIT AREA (SQ FT)	AREA (SQ FT)	ITEM NO.
	WIDTH	HEIGHT		BACKGROUND	LEGEND	BORDER					
M1-5a	36	36		WHITE	BLACK	BLACK	11	-	9.0	99.0	852.
M3-2	24	12		WHITE	BLACK	BLACK	7	-	2.0	14.0	
M3-4	24	12		WHITE	BLACK	BLACK	4	-	2.0	8.0	
M4-8	24	12		ORANGE	BLACK	BLACK	19	*	2.0	38.0	
M4-8a	24	18		ORANGE	BLACK	BLACK	3	-	3.0	9.0	
M4-9L	30	24		ORANGE	BLACK	BLACK	2	-	5.0	10.0	
M4-9R	30	24		ORANGE	BLACK	BLACK	1	-	5.0	5.0	
M4-9V	30	24		ORANGE	BLACK	BLACK	1	-	5.0	5.0	
M4-9(L) (CEDAR ST)	24	36		ORANGE	BLACK	BLACK	2	-	6.0	12.0	
M4-9(R) (CEDAR ST)	24	36		ORANGE	BLACK	BLACK	3	-	6.0	18.0	
M4-9(S) (CEDAR ST)	36	36		ORANGE	BLACK	BLACK	4	-	9.0	36.0	
M4-9(A) (CEDAR ST)	36	36		ORANGE	BLACK	BLACK	2	-	9.0	18.0	
M4-10R	48	18		ORANGE	BLACK	BLACK	6	**	6.0	36.0	
M6-1L	21	15		WHITE	BLACK	BLACK	5	-	2.2	11.0	
M6-1R	21	15		WHITE	BLACK	BLACK	7	-	2.2	15.4	
M6-3	15	21		WHITE	BLACK	BLACK	4	-	2.2	8.8	
G20-2	36	18		ORANGE	BLACK	BLACK	4	-	4.5	18.0	
R1-1	30	30		RED	WHITE	WHITE	1	-	6.25	6.25	
R2-10a	48	36		WHITE	BLACK	BLACK	5	-	12.0	60.0	
R3-2	24	24		ORANGE	BLACK	BLACK	9	-	4.0	36.0	
R4-13R	36	48		ORANGE	BLACK	BLACK	2	-	12.0	24.0	
R9-9	30	18		ORANGE	BLACK	BLACK	3	-	3.75	11.25	
R9-11L	48	24		ORANGE	BLACK	BLACK	1	-	8.0	8.0	852.

TOTAL AREA OF SIGNS: 506.70 SF

SIGN SUMMARY TABLE - CONTINUED

IDENTIFICATION NUMBER	SIZE OF SIGN (INCH)		TEXT	COLOR			NUMBER OF SIGNS REQUIRED	POST SIZE & NUMBER REQUIRED***	UNIT AREA (SQ FT)	AREA (SQ FT)	ITEM NO.
	WIDTH	HEIGHT		BACKGROUND	LEGEND	BORDER					
R9-11R	48	24		ORANGE	BLACK	BLACK	1	-	8.0	8.0	852.
R11-2	36	18		ORANGE	BLACK	BLACK	5	-	4.5	22.5	
R11-4	60	30		ORANGE	BLACK	BLACK	2	-	12.5	25.0	
SP-1	24	12		WHITE	BLACK	BLACK	8	*	2.0	16.0	
W11-2	30	30		ORANGE	BLACK	BLACK	3	-	6.25	18.75	
W16-7pL	24	12		ORANGE	BLACK	BLACK	2	-	2.0	4.0	
W16-9p	24	12		ORANGE	BLACK	BLACK	1	-	2.0	2.0	
W1-4R	36	36		ORANGE	BLACK	BLACK	2	-	9.0	18.0	
W1-4L	36	36		ORANGE	BLACK	BLACK	1	-	9.0	9.0	
W1-1 (MOD)	36	36		ORANGE	BLACK	BLACK	2	-	9.0	18.0	
W4-2L	36	36		ORANGE	BLACK	BLACK	2	-	9.0	18.0	
W4-2R	36	36		ORANGE	BLACK	BLACK	2	-	9.0	18.0	
W4-3	36	36		ORANGE	BLACK	BLACK	1	-	9.0	9.0	
W5-1	36	36		ORANGE	BLACK	BLACK	2	-	9.0	18.0	
W13-1 (30)	24	24		ORANGE	BLACK	BLACK	2	-	2.0	4.0	
W13-1 (15)	24	24		ORANGE	BLACK	BLACK	2	-	2.0	4.0	
W16-2	24	18		ORANGE	BLACK	BLACK	1	-	3.0	3.0	852.



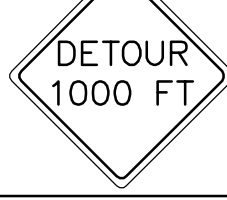








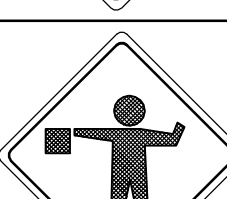

NOTES: * DENOTES 1 SIGN MOUNT WITH TYPE III BARRICADE.
 ** DENOTES 2 SIGNS MOUNT WITH TYPE III BARRICADE.
 *** SUPPORTS INCLUDED WITH SIGN ITEMS.

TOTAL AREA OF SIGNS: 215.25 SF

WELLESLEY CEDAR STREET OVER ROUTE 9			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	41	72
PROJECT FILE NO.		604007	

TEMPORARY TRAFFIC CONTROL PLAN
 CONSTRUCTION SIGN SUMMARY - SHEET 1 OF 2



SIGN SUMMARY TABLE – CONTINUED

IDENTIFICATION NUMBER	SIZE OF SIGN (INCH)		TEXT	COLOR			NUMBER OF SIGNS REQUIRED	POST SIZE & NUMBER REQUIRED*	UNIT AREA (SQ FT)	AREA (SQ FT)	ITEM NO.
	WIDTH	HEIGHT		BACKGROUND	LEGEND	BORDER					
W20-1	36	36		ORANGE	BLACK	BLACK	2	-	9.0	18.0	852.
W20-1a	36	36		ORANGE	BLACK	BLACK	4	-	9.0	36.0	
W20-2 (1000')	36	36		ORANGE	BLACK	BLACK	2	-	9.0	18.0	
W20-2 (500')	36	36		ORANGE	BLACK	BLACK	4	-	9.0	36.0	
W20-2 (AHEAD)	36	36		ORANGE	BLACK	BLACK	4	-	9.0	36.0	
W20-3	36	36		ORANGE	BLACK	BLACK	2	-	9.0	18.0	
W20-4 (500')	36	36		ORANGE	BLACK	BLACK	2	-	9.0	18.0	
W20-4 (xx')	36	36		ORANGE	BLACK	BLACK	4	-	9.0	36.0	COORDINATE WITH DISTRICT TRAFFIC ENGINEER TO ESTABLISH VALUE OF "xx".
W20-5L	36	36		ORANGE	BLACK	BLACK	3	-	9.0	27.0	
W20-5La	36	36		ORANGE	BLACK	BLACK	2	-	9.0	18.0	
W20-5R	36	36		ORANGE	BLACK	BLACK	2	-	9.0	18.0	
W20-7a	36	36		ORANGE	BLACK	BLACK	1	-	9.0	9.0	
W20-8	36	36		ORANGE	BLACK	BLACK	4	-	9.0	36.0	852.

NOTES: * SUPPORTS INCLUDED WITH SIGN ITEMS.

TOTAL AREA OF SIGNS: 324.00 SF

SIGN SUMMARY TABLE – CONTINUED

IDENTIFICATION NUMBER	SIZE OF SIGN (INCH)		TEXT	COLOR			NUMBER OF SIGNS REQUIRED	POST SIZE & NUMBER REQUIRED**	UNIT AREA (SQ FT)	AREA (SQ FT)	ITEM NO.
	WIDTH	HEIGHT		BACKGROUND	LEGEND	BORDER					
E5-1	48	36		SEE MHD STANDARD			2	-	12.0	24.0	852.
E5-2	48	36		SEE MHD STANDARD			2	-	12.0	24.0	852.

NOTES: * SUPPORTS INCLUDED WITH SIGN ITEMS.

TOTAL AREA OF SIGNS: 48.00 SF

WELLESLEY
CEDAR STREET OVER ROUTE 9

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	42	72
PROJECT FILE NO.		604007	

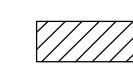
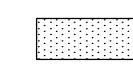
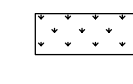
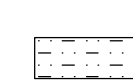
TEMPORARY TRAFFIC CONTROL PLAN
CONSTRUCTION SIGN SUMMARY - SHEET 2 OF 2

**WELLESLEY
CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	43	72
PROJECT FILE NO.		604007	

**LANDSCAPE PLAN
SHEET 1 OF 2**

DESIGN LEGEND

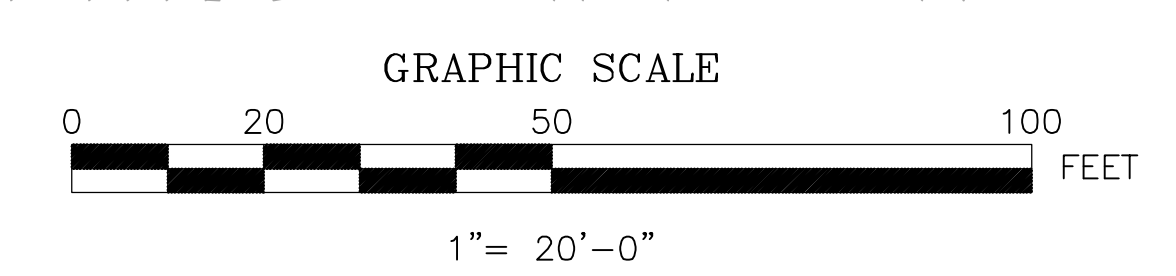
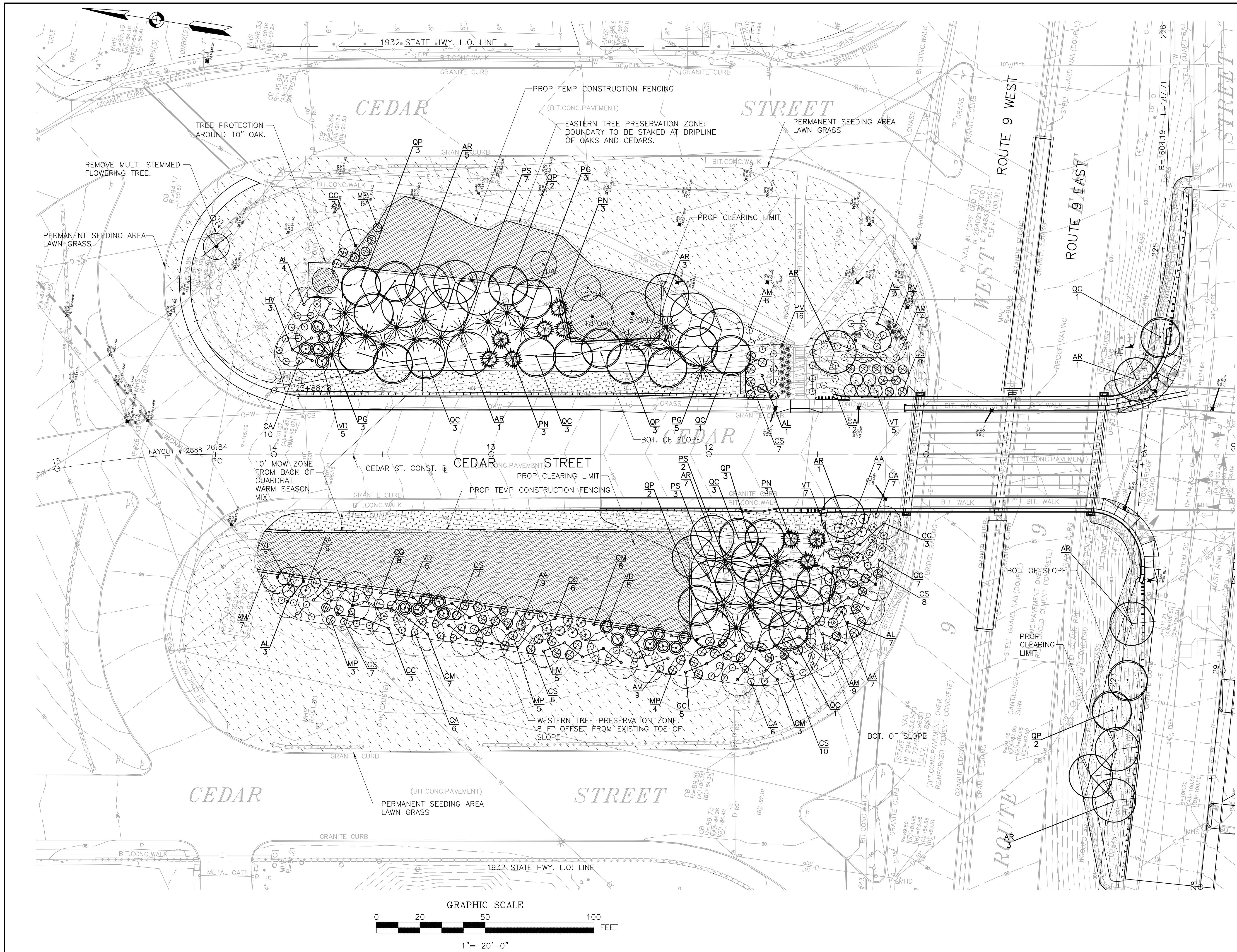
-  TREE PRESERVATION ZONE
(APPRX. 6,400 SF + 4,050 SF)
-  SOUTHERN SLOPES-STND. SLOPE MIX
(APPRX. 3,470 SF + 2,200 SF)
-  10 FT. CLEAR ZONE-STND. WARM SEASON MIX
(APPRX. 2,475 SF + 2,150 SF)
-  PERMANENT SEEDING AREA-STND. LAWN GRASS MIX

PHASE 5

1. REMOVE STONE OR MULCH FROM STAGING AREA.
2. PERFORM LANDSCAPING
3. FINAL PAVE CEDAR STREET AND WORCESTER STREETS
4. REMOVE FIBER ROLLS AND CATCH BASIN INLET PROTECTION UPON FINAL STABILIZATION
5. FOR TEMPORARY AND PERMANENT SEEDING: ALL DISTURBED AREAS OUTSIDE THE LIMITS OF THE PROPOSED LANDSCAPING FEATURES SHALL CONSIST OF LONG TERM SEED MIXES FOR LAWNS AND SLOPES PER MASSDOT SPECIFICATION M6.03.0.
6. TEMPORARY MULCH SHALL CONSIST OF STRAW OR HAY, AIR DRIED AND FREE OF INVASIVE SEEDS AND MATERIALS. MULCH SHALL BE APPLIED AT RATE OF 90-100 LBS. PER 1,000 SQUARE FEET OR 2 TONS PER ACRE.

NOTE:

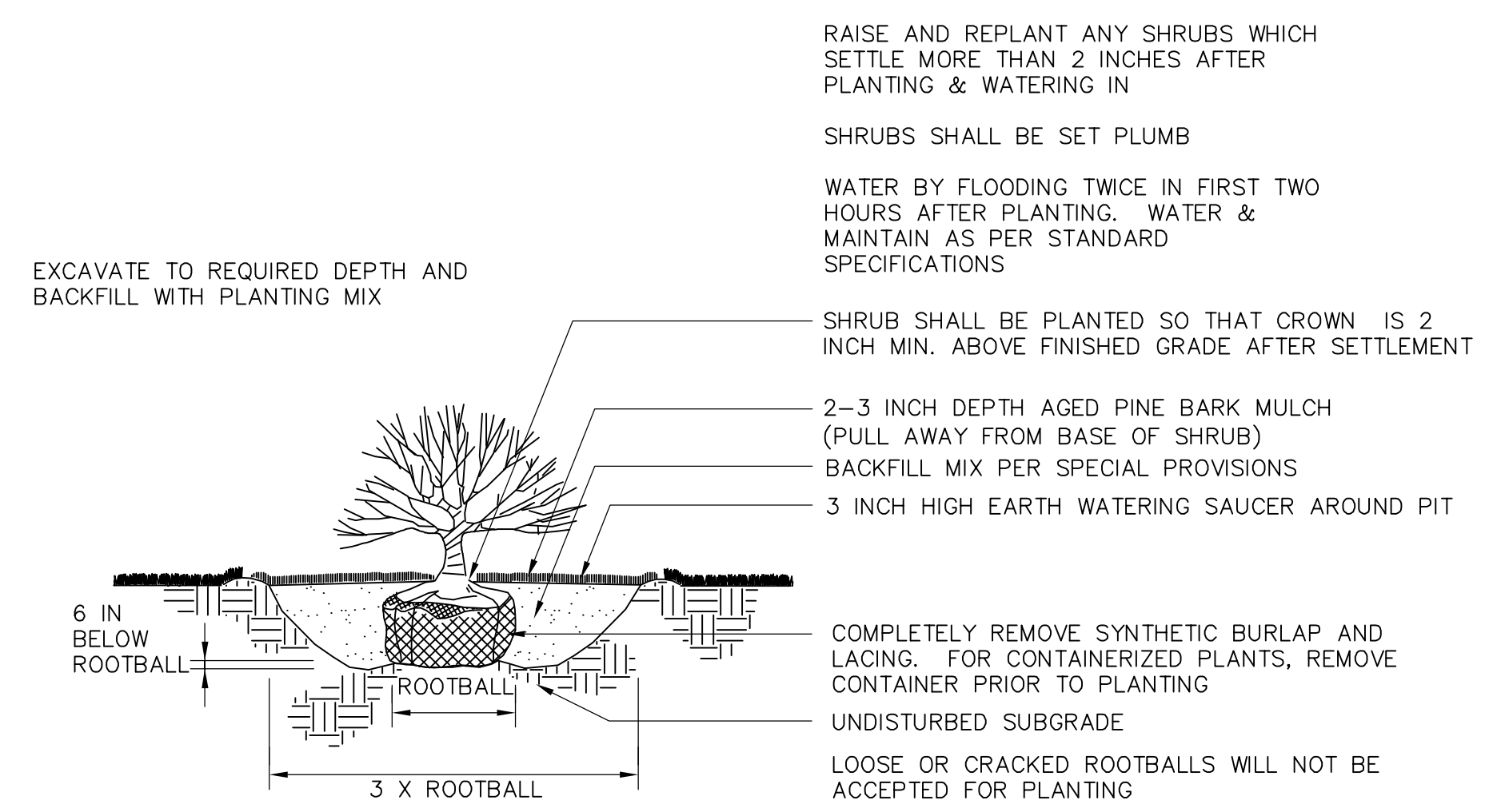
DURING A FIELD MEETING WITH ROBIN BERGFORS (MASSDOT LA) AND JACK DUGAN (JF WHITE) ON 02/23/2011, IT WAS AGREED THAT ONLY DISTURBED AREAS ON THE SOUTH SLOPES WILL REQUIRE REPLANTING AND THAT AN EFFORT WOULD BE MADE TO MINIMIZE TREE REMOVALS. THE ACTUAL QUANTITY AND LOCATION OF TREES FOR THE SOUTH SLOPES WILL BE EVALUATED IN THE FIELD AFTER EROSION CONTROL MEASURES ARE PLACED AND CLEARING IS DONE.



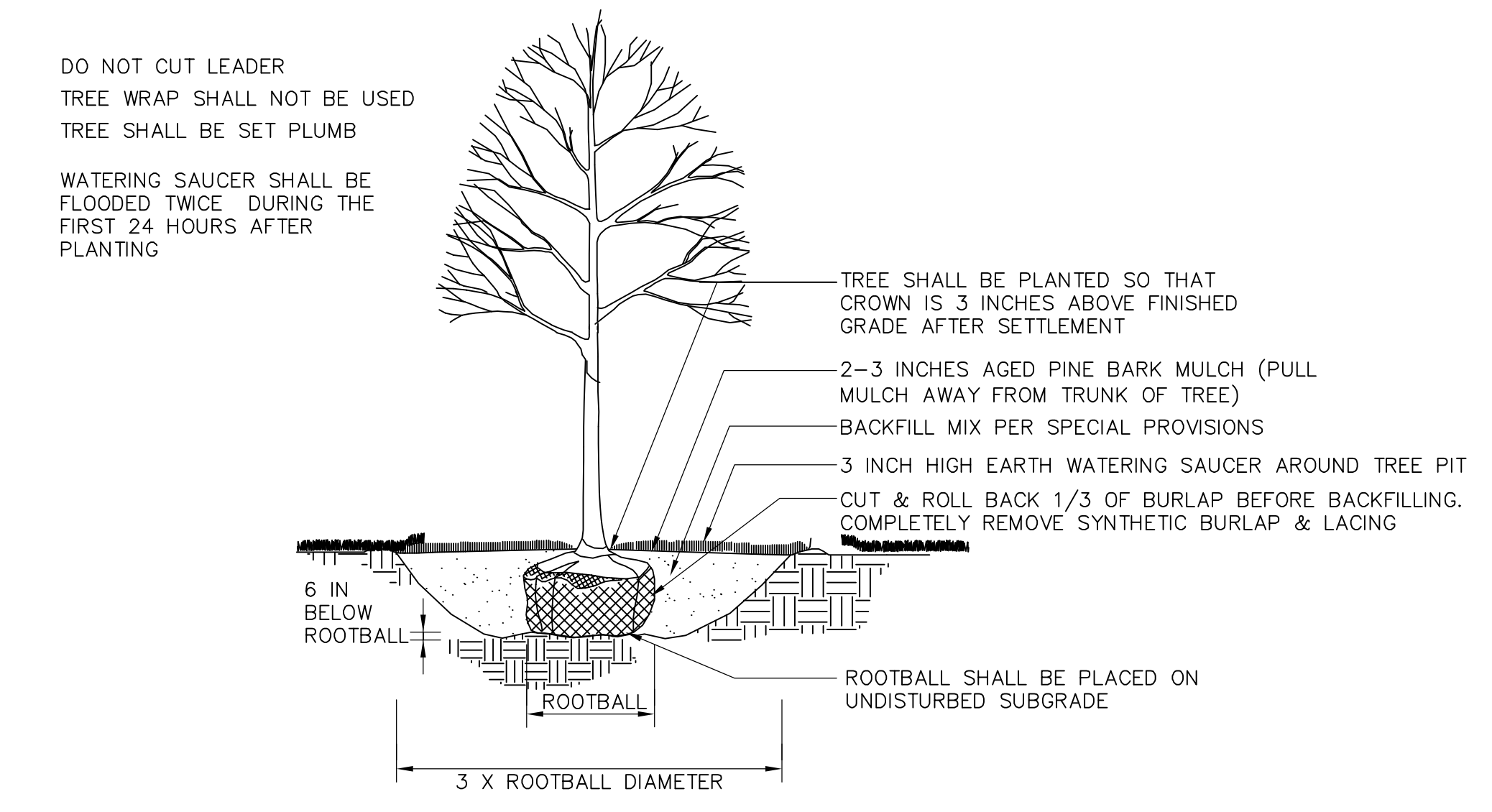
**WELLESLEY
CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	44	72
PROJECT FILE NO. 604007			

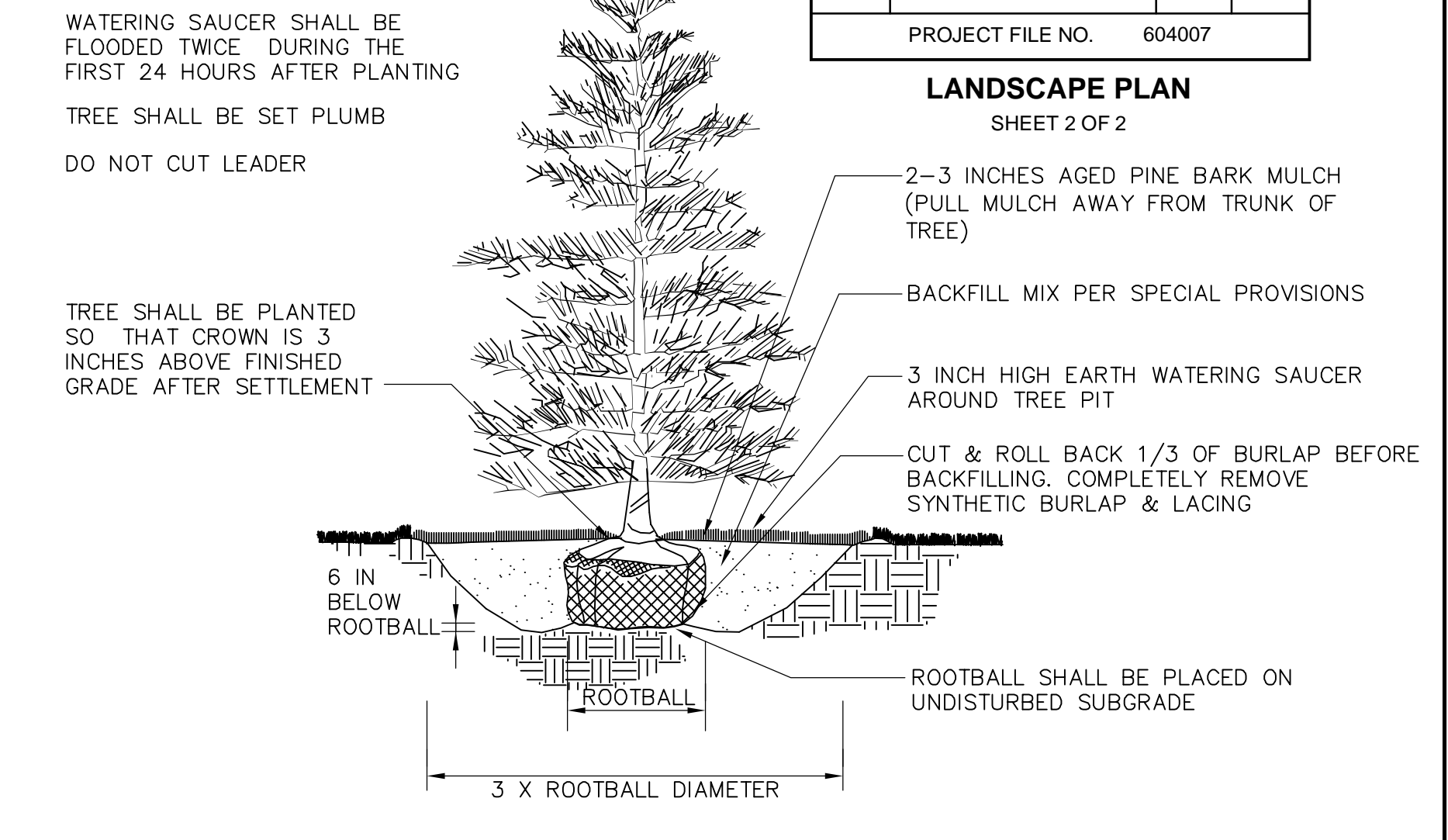
**LANDSCAPE PLAN
SHEET 2 OF 2**



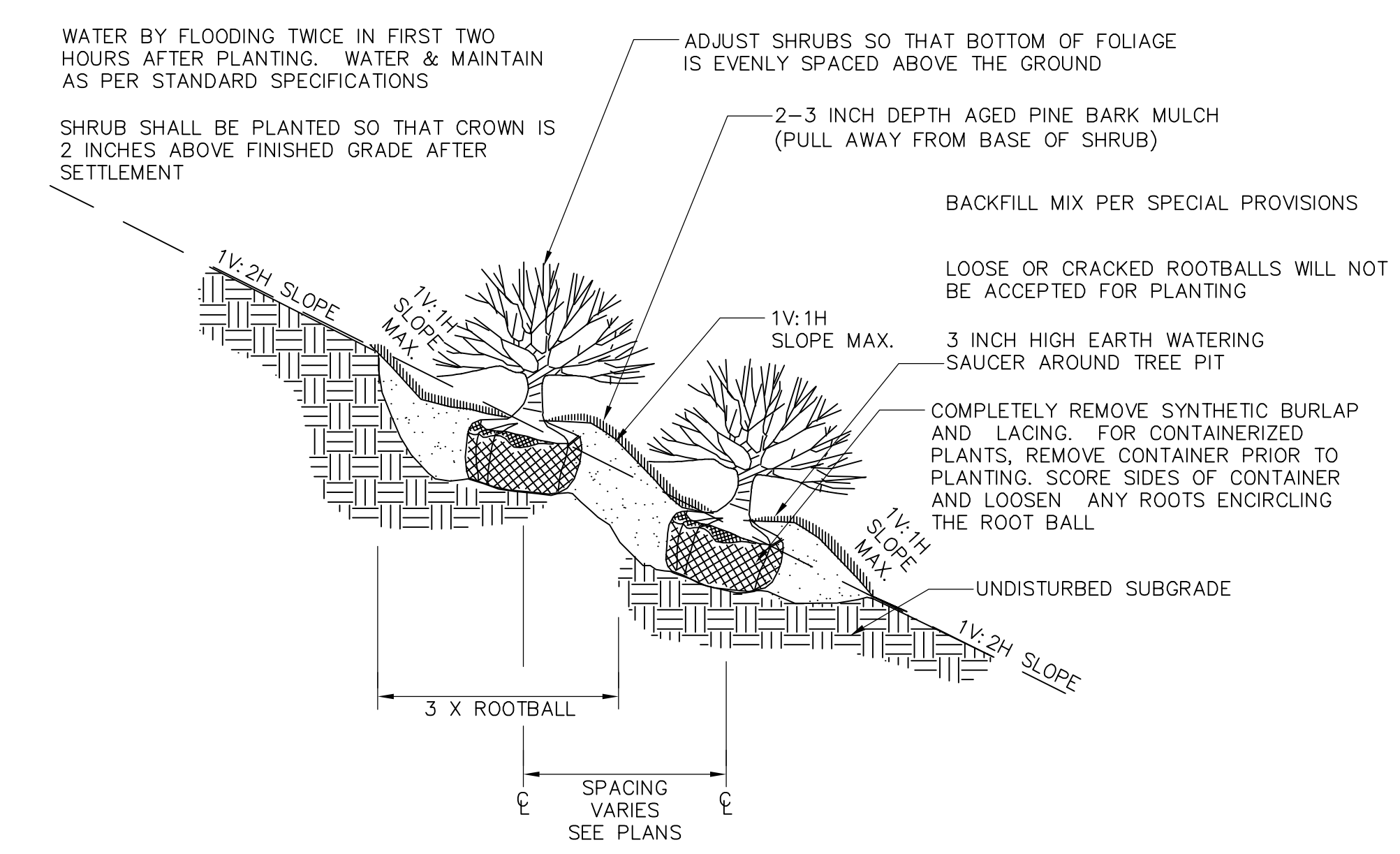
SHRUB PLANTING
N.T.S.



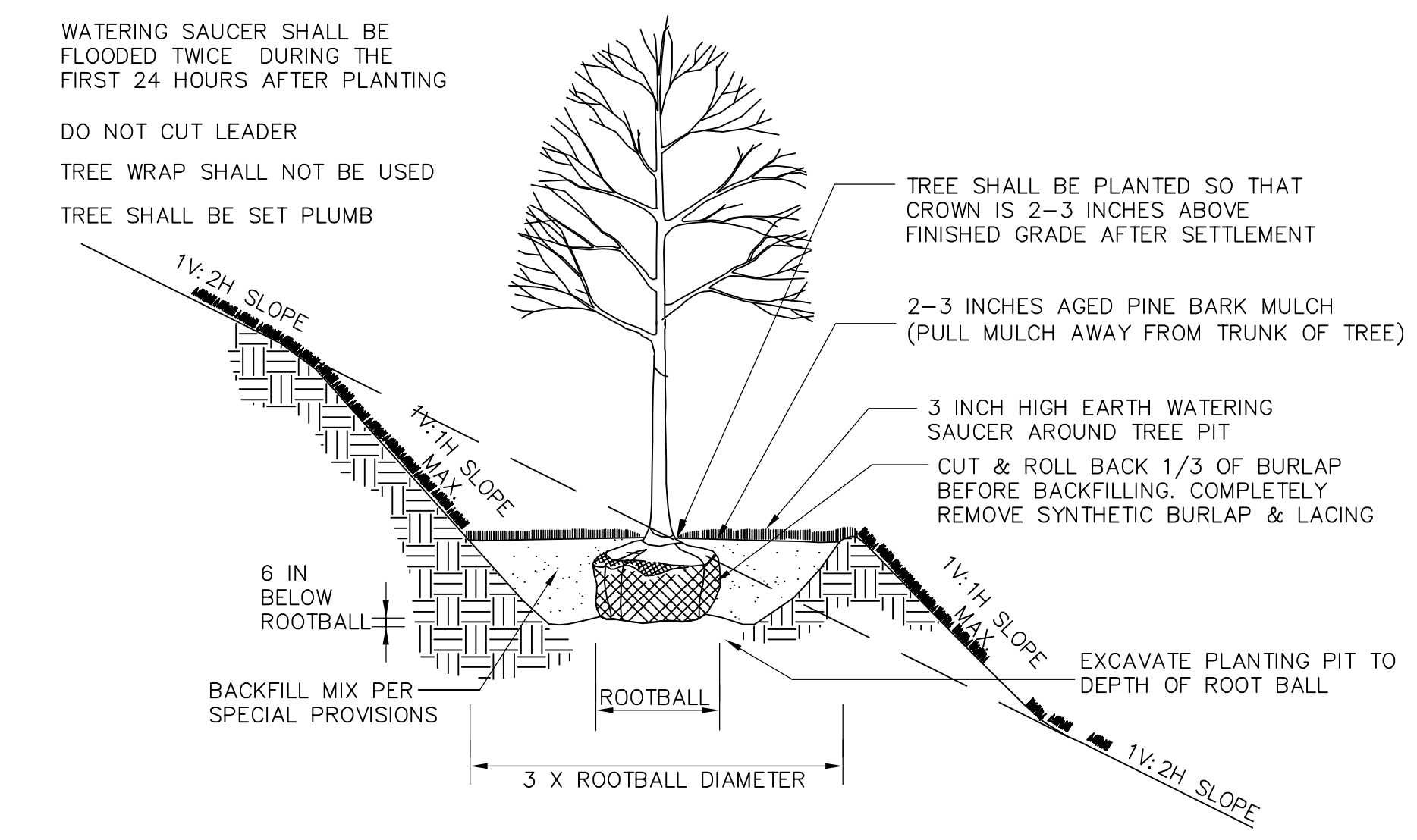
DECIDUOUS TREE PLANTING
N.T.S.



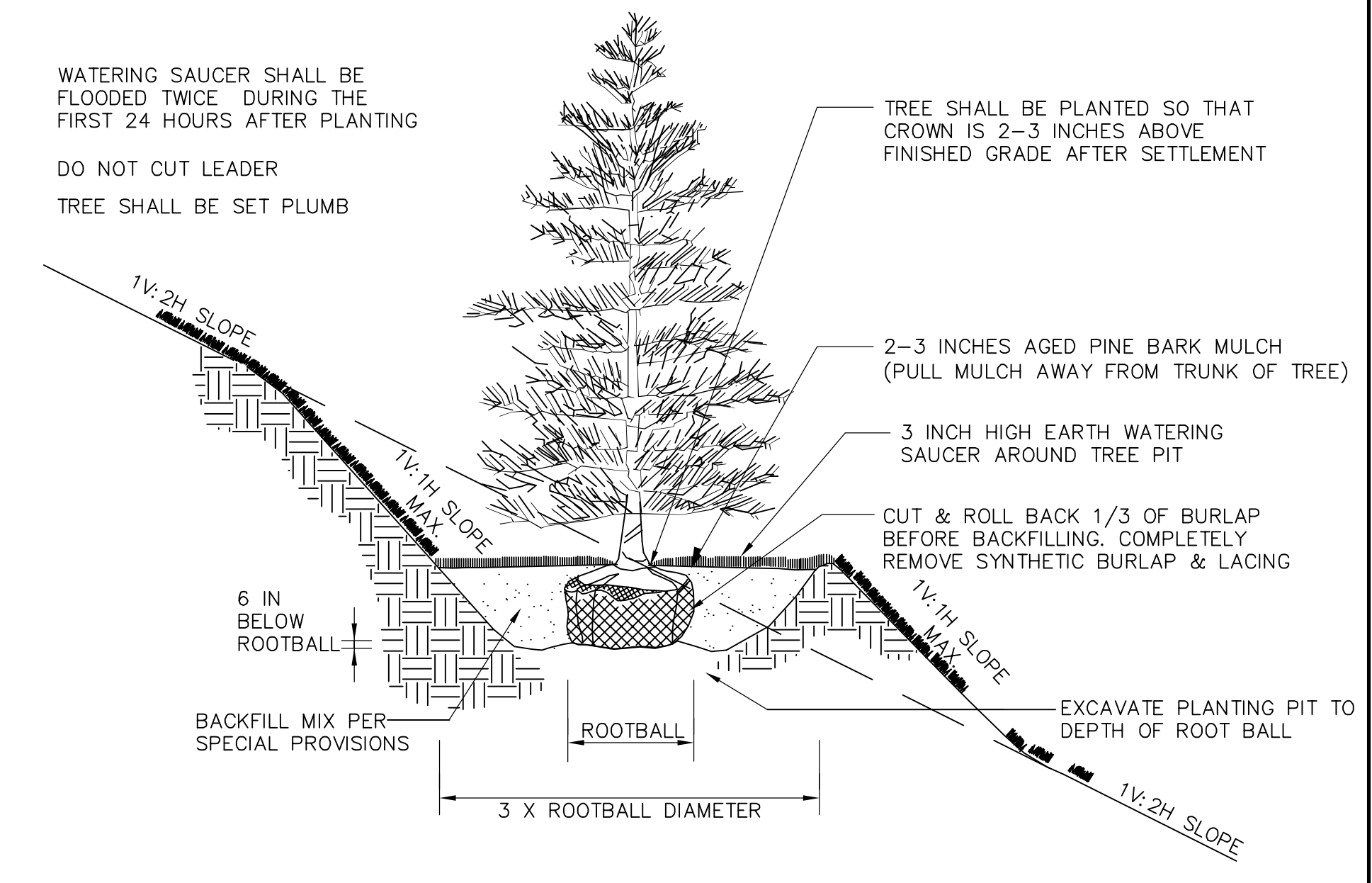
EVERGREEN TREE PLANTING
N.T.S.



CONTAINERIZED SHRUB PLANTING (SLOPE)
N.T.S.



DECIDUOUS TREE PLANTING (SLOPE)
N.T.S.



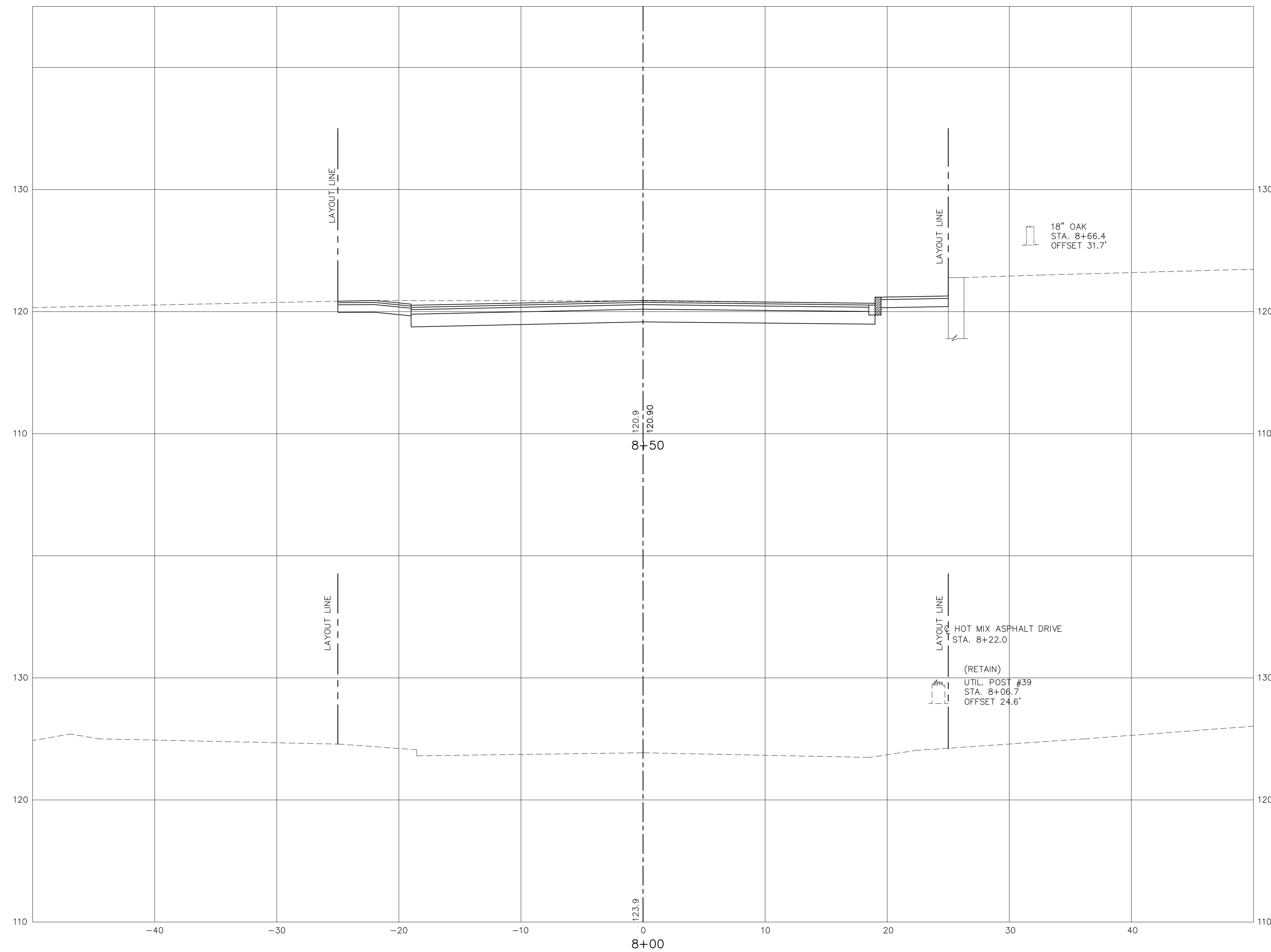
EVERGREEN TREE PLANTING (SLOPE)
N.T.S.

PROPOSED MASTER PLANT LIST

ITEM	QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS/SPACING
EVERGREEN TREES							
774.638	11	PG	PICEA GLAUCA	SPRUCE - WHITE	5-6' HGT.	B+B	12' O.C.
773.036	9	PN	PINUS NIGRA	PINE - AUSTRIAN	5-6' HGT.	B+B	12' O.C.
773.436	12	PS	PINUS STROBUS	PINE - WHITE	5-6' HGT.	B+B	12' O.C.
DECIDUOUS TREES							
776.543	23	AR	ACER RUBRUM 'OCTOBER GLORY'	MAPLE - RED 'OCTOBER GLORY'	2-2.5" CAL	B+B	12' O.C.
781.222	11	CG	CRATAEGUS CRUS-GALLI	HAWTHORN - COCKSPUR	6'-8' HGT.	B+B	12' O.C.
781.292	16	CM	CRATAEGUS MOLLIS	HAWTHORN - DOWNY	6'-8' HGT.	B+B	12' O.C.
777.241	12	QC	QUERCUS COCCINEA	OAK - SCARLET	2-2.5" CAL	B+B	12' O.C.
777.138	15	QP	QUERCUS PALUSTRIS	OAK - PIN	2-2.5" CAL	B+B	12' O.C.
DECIDUOUS SMALL TREE / LARGE SHRUB							
783.037	18	AL	AMELANCHIER LAEVIS	SHAD TREE - ALLEGHENY	5'-6' HGT.	B+B	12' O.C.
782.535	23	CC	CERCIS CANADENSIS	REDBUD - EASTERN	6'-8' HGT.	B+B	12' O.C.
795.184	8	HV	HAMAMELIS VIRGINIANA	WITCHHAZEL - COMMON	3'-4' HGT.	CONT.	12' O.C.

PROPOSED MASTER PLANT LIST

ITEM	QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS/SPACING
SHRUBS							
789.728	32	AA	ARONIA ARBUTIFOLIA	CHOKEBERRY - RED	24"-30"	CONT.	6' O.C.
789.735	47	AM	ARONIA MELANOCARPA	CHOKEBERRY - BLACK	24"-30"	CONT.	6' O.C.
794.752	41	CA	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	SUMMERSWEET - DWARF WHITE	24"-30"	CONT.	6' O.C.
790.633	54	CS	CORNUS SERICEA	DOGWOOD - REDOSIER	24"-30"	CONT.	6' O.C.
789.201	18	MP	MYRICA PENNSYLVANICA	BAYBERRY SHRUB - NORTHERN	24"-30"	CONT.	6' O.C.
795.002	18	VD	VIBURNUM DENTATUM	VIBURNUM - ARROWWOOD	24"-30"	CONT.	6' O.C.
795.053	15	VT	VIBURNUM TRILOBUM	VIBURNUM - HIGHBUSH CRANBERRY	3-4'	CONT.	6' O.C.
ORNAMENTAL GRASS							
796.454	23	PV	PANICUM VIRGATUM	SWITCHGRASS	1 GALLON	CONT.	3' O.C.

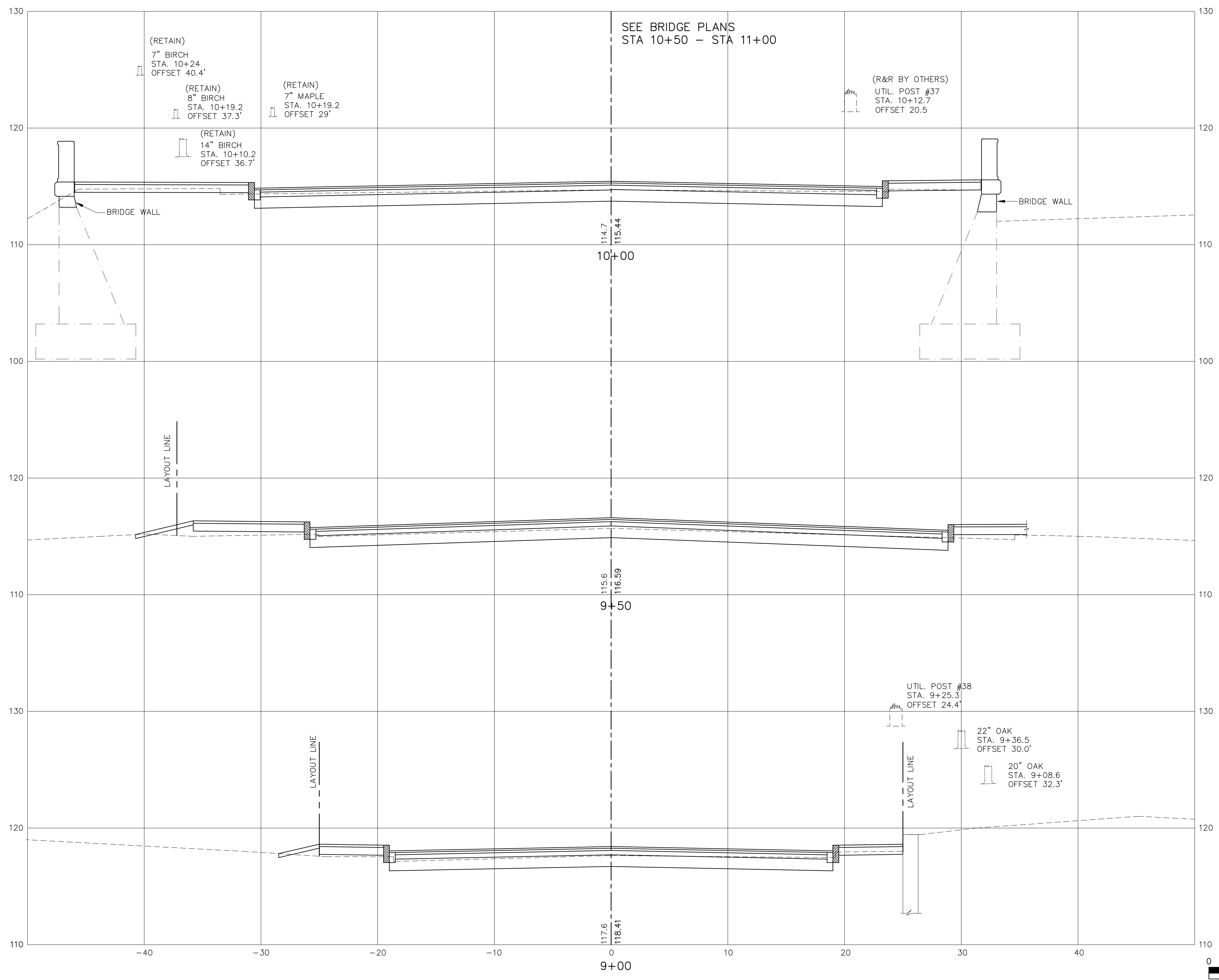


EST. ALLOWABLE SHRINKAGE +15%

WELLESLEY
CEDAR STREET OVER ROUTE 9

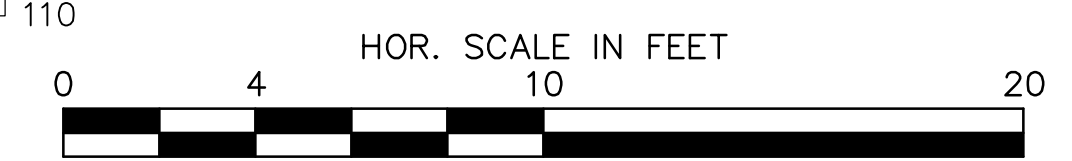
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	64	72
PROJECT FILE NO. 604007			

CROSS SECTION - CEDAR STREET
 STA 9+00 TO 10+00



STA. 9+53.36 CEDAR STREET
 @ CONSTRUCTION
 = STA. 30+00 WORCESTER ST.
 CONSTRUCTION @ WEST

STA. 9+56.57 CEDAR STREET
 @ CONSTRUCTION
 = STA. 40+00 WORCESTER ST.
 CONSTRUCTION @ EAST

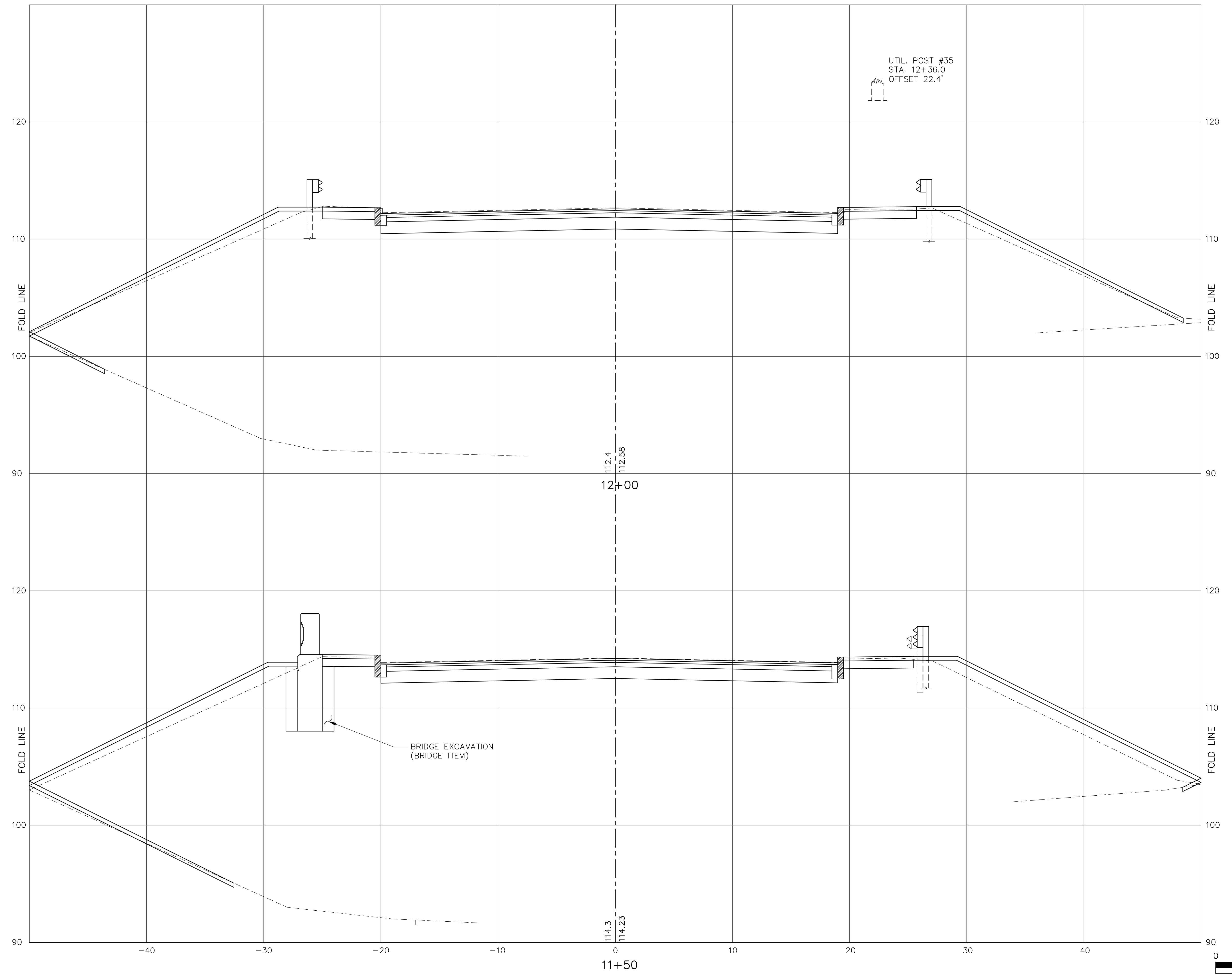


**WELLESLEY
CEDAR STREET OVER ROUTE 9**

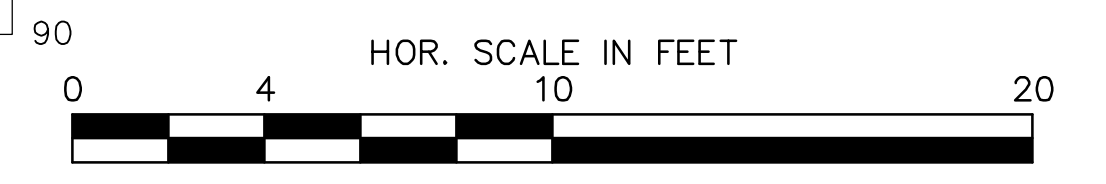
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	65	72
PROJECT FILE NO.		604007	

CROSS SECTION - CEDAR STREET
STA 11+50 TO 12+00

UTIL. POST #35
STA. 12+36.0
OFFSET 22.4'



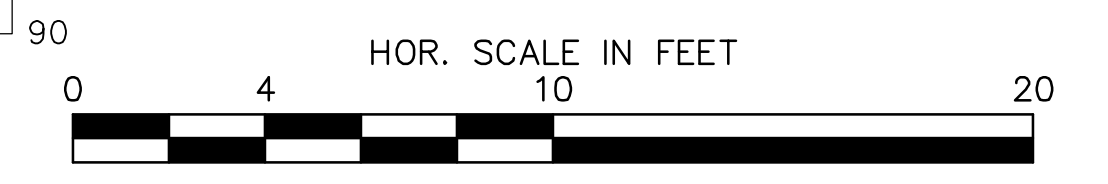
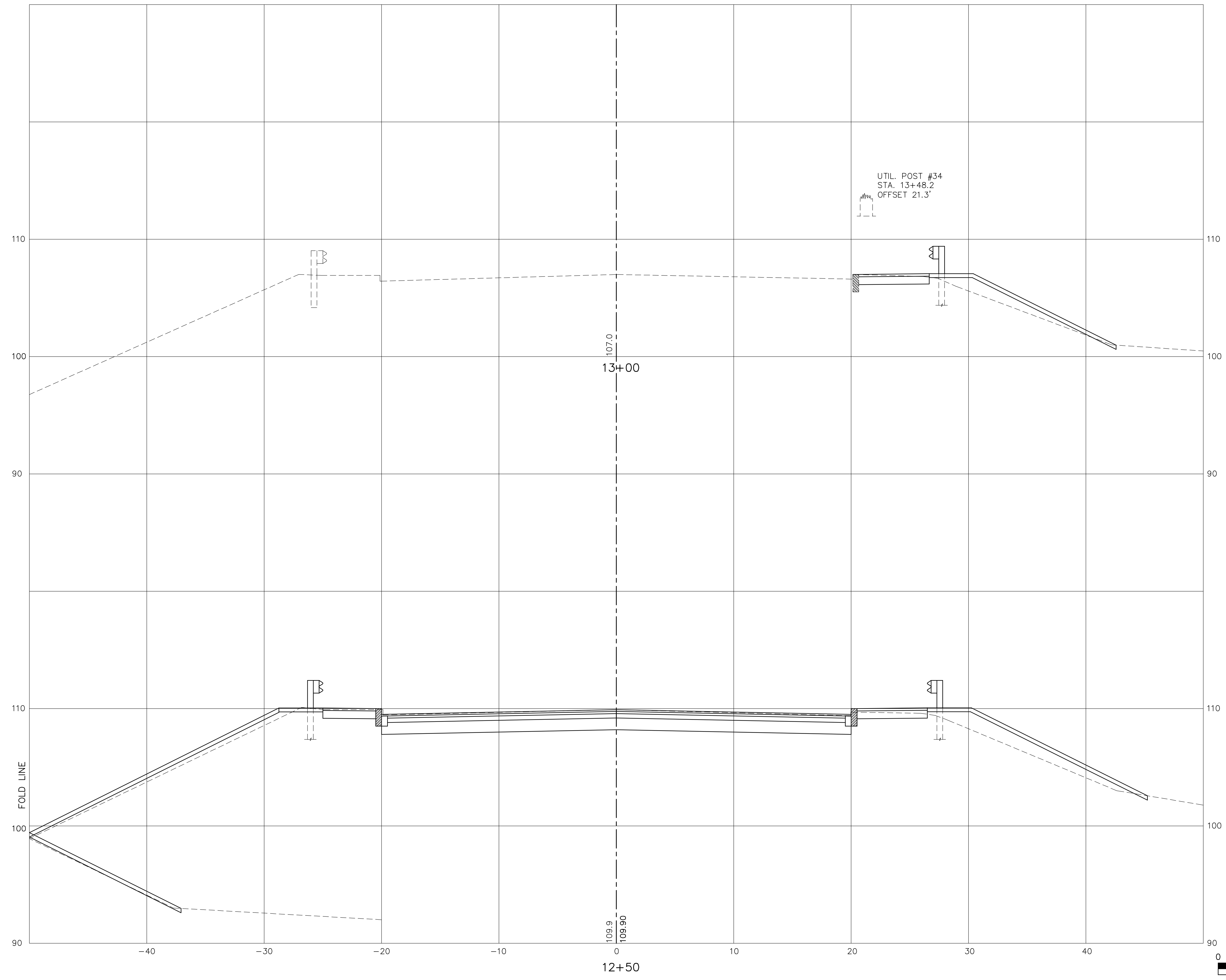
BRIDGE EXCAVATION
(BRIDGE ITEM)



**WELLESLEY
CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	66	72
PROJECT FILE NO.		604007	

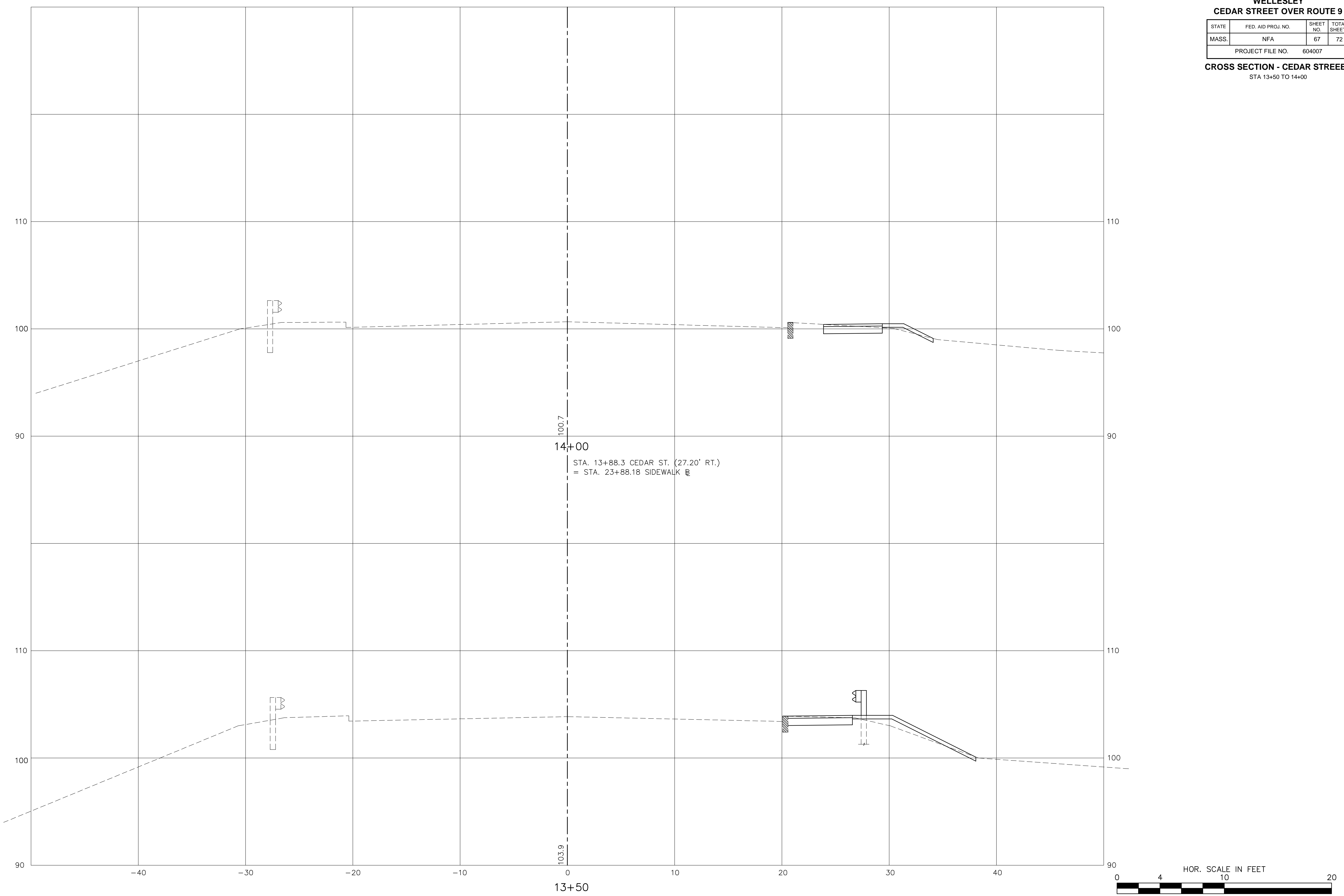
CROSS SECTION - CEDAR STREET
STA 12+50 TO 13+00



**WELLESLEY
CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	67	72
PROJECT FILE NO.		604007	

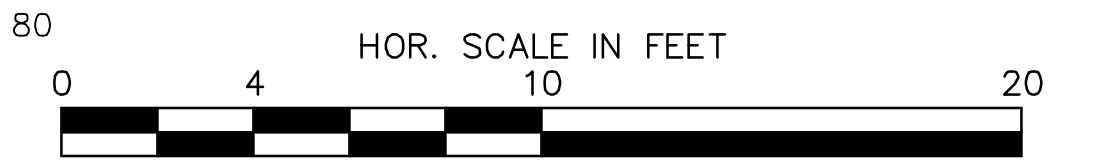
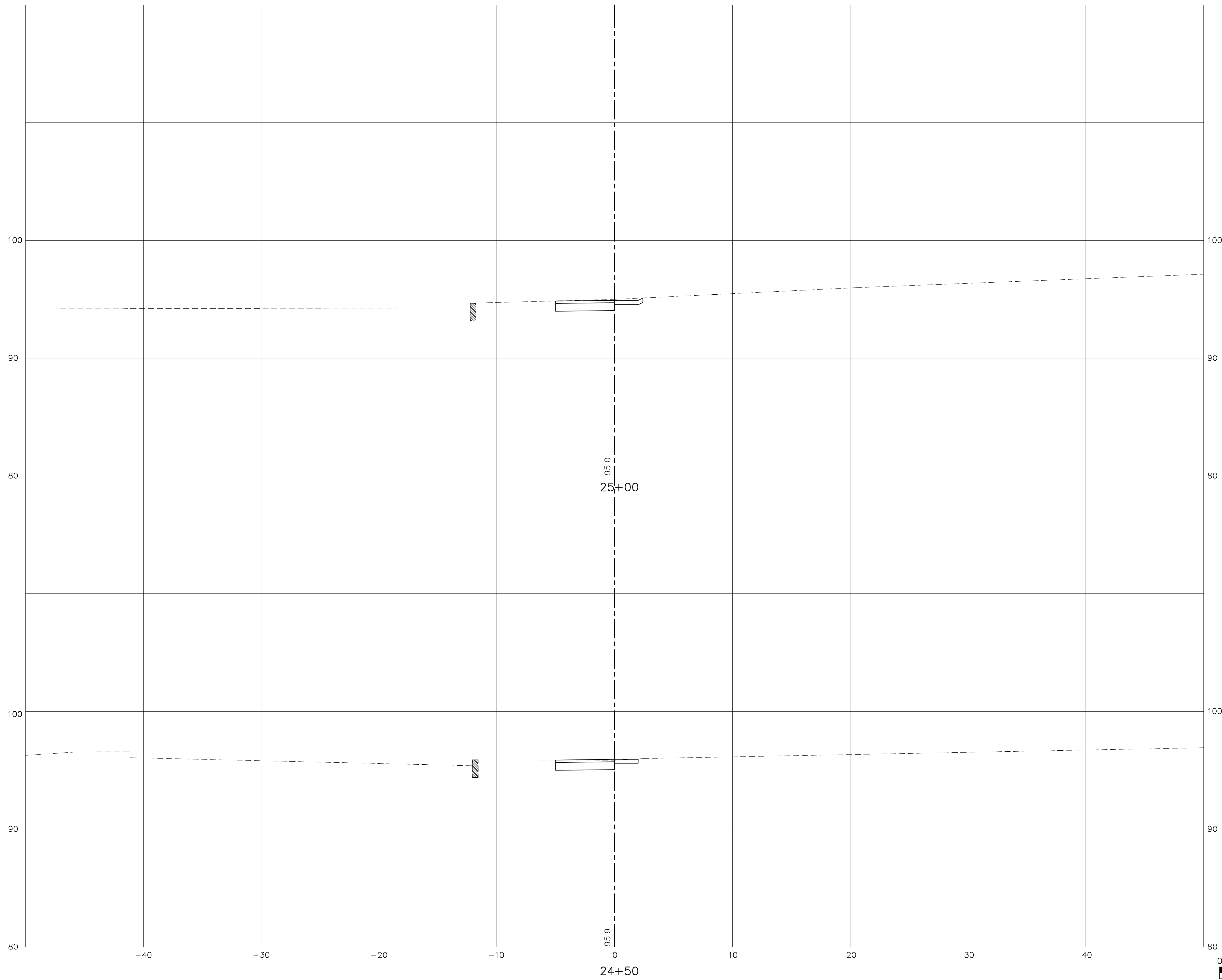
CROSS SECTION - CEDAR STREET
STA 13+50 TO 14+00



**WELLESLEY
CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	68	72
PROJECT FILE NO.		604007	

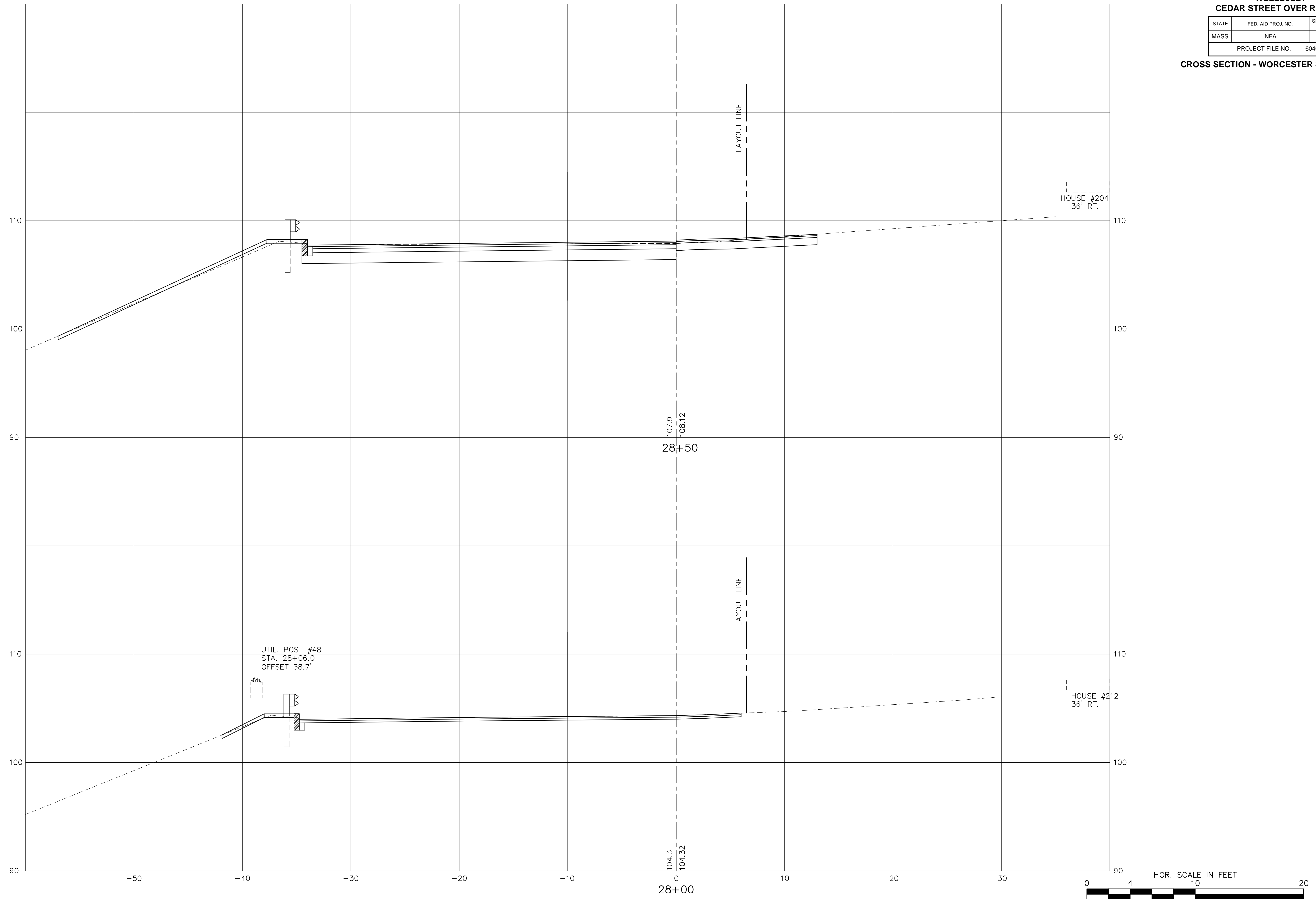
CROSS SECTION - CEDAR STREET
STA 24+50 TO 25+00



WELLESLEY
CEDAR STREET OVER ROUTE 9

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	69	72
PROJECT FILE NO.		604007	

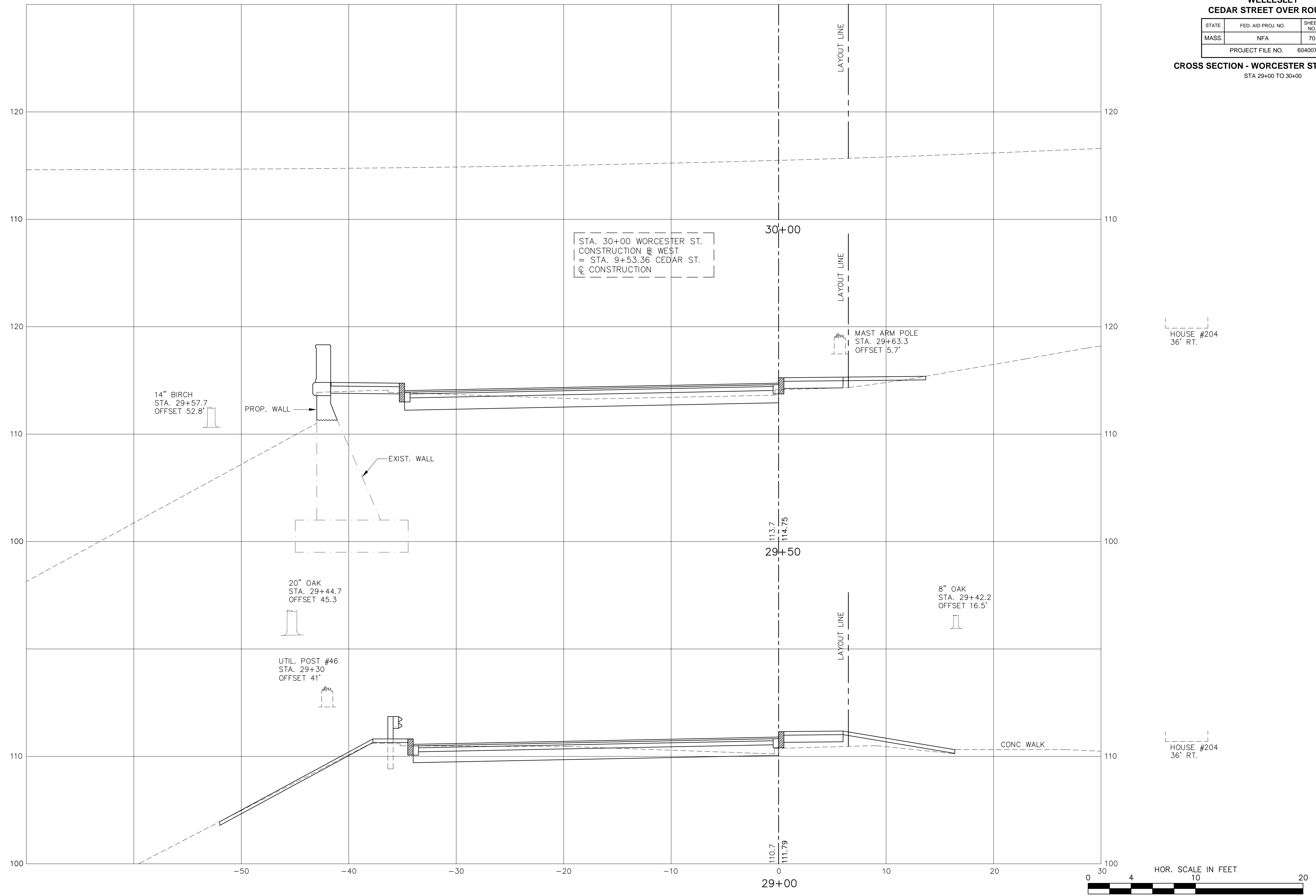
CROSS SECTION - WORCESTER STREET WEST



WELLESLEY
CEDAR STREET OVER ROUTE 9

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	70	72
PROJECT FILE NO.		604007	

CROSS SECTION - WORCESTER STREET WEST
STA 29+00 TO 30+00



STA. 30+00 WORCESTER ST.
CONSTRUCTION @ WEST
= STA. 9+53.36 CEDAR ST.
@ CONSTRUCTION

MAST ARM POLE
STA. 29+63.3
OFFSET 5.7'

HOUSE #204
36' RT.

14" BIRCH
STA. 29+57.7
OFFSET 52.8'

PROP. WALL

EXIST. WALL

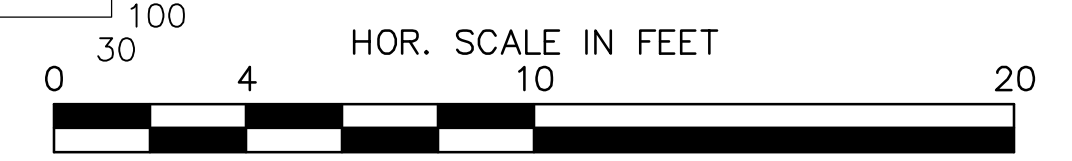
20" OAK
STA. 29+44.7
OFFSET 45.3'

UTIL. POST #46
STA. 29+30
OFFSET 41'

8" OAK
STA. 29+42.2
OFFSET 16.5'

CONC WALK

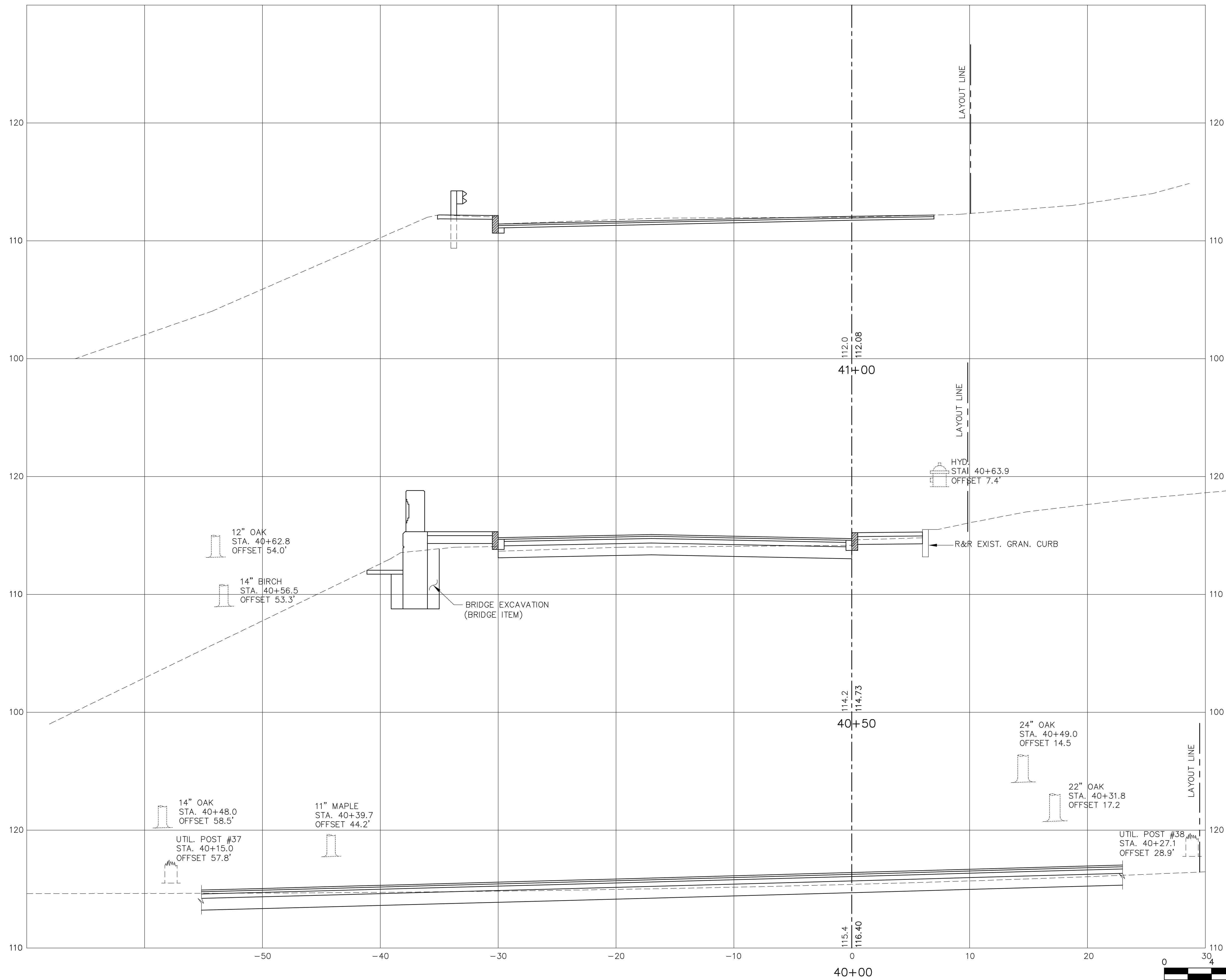
HOUSE #204
36' RT.



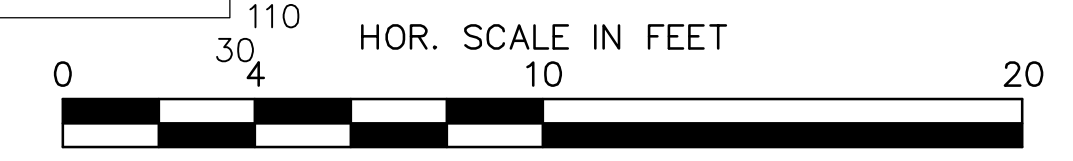
**WELLESLEY
CEDAR STREET OVER ROUTE 9**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	71	72
PROJECT FILE NO.		604007	

CROSS SECTION - WORCESTER STREET EAST
STA 40+00 TO 41+00



STA. 40+00 WORCESTER ST.
CONSTRUCTION @ EAST
= STA. 9+56.67 CEDAR ST.
C CONSTRUCTION



WELLESLEY
CEDAR STREET OVER ROUTE 9

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	NFA	72	72
PROJECT FILE NO.		604007	

CROSS SECTION - WORCESTER STREET EAST
STA 41+14

