MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	1	XXX
	PROJECT FILE NO.	608717	

TITLE SHEET & INDEX

PLAN AND PROFILE OF

SUMNER AVENUE (ROUTE 83)/DICKINSON STREET/ BELMONT AVENUE (ROUTE 83)

IN THE CITY OF

SPRINGFIELD

HAMPDEN COUNTY

FEDERAL AID PROJECT NO. XXXXXXXXXX

25% SUBMITTAL

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED SEPTEMBER 30, 2017, THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WTH MASSACHUSETTS AMENDMENTS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.

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41 - 42	PROFILE - DICKINSON STREET
43	PROFILE - ORMOND STREET
43	PROFILE - OAKLAND STREET
44 - 45	PROFILE - BELMONT AVENUE
46	PROFILE - BURLINGTON STREET
47 - 48	PROFILE - FOREST PARK PATH
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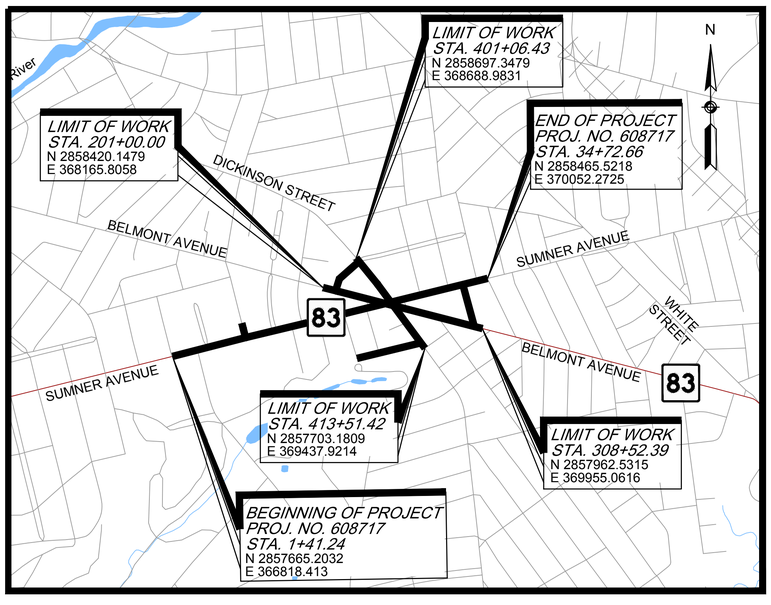

750 0 375 750
SCALE IN FEET

LENGTH OF PROJECT = 3331.42 FEET = 0.6309 MILES

DESIGN DESIGNATION (SUMNER AVENUE (ROUTE 83))

DESIGN SPEED	30 MPH
ADT (2015)	21,344 vpd
ADT (2035)	26,044 vpd
K	8%
D	54% (WB)
T (PEAK HOUR)	6.7%
T (AVERAGE DAY)	4.5%
DHV	2080 vph
DDHV	1128 vph
FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL

DESIGN DESIGNATION (DICKINSON STREET)

DESIGN SPEED	30 MPH
ADT (2015)	7,887 vpd
ADT (2035)	9,624 vpd
K	7.8%
D	54% (NB)
T (PEAK HOUR)	5.7%
T (AVERAGE DAY)	3.0%
DHV	755 vph
DDHV	406 vph
FUNCTIONAL CLASSIFICATION	URBAN MINOR ARTERIAL

DESIGN DESIGNATION (BELMONT AVENUE (ROUTE 83))

DESIGN SPEED	30 MPH
ADT (2015)	8,525 vpd
ADT (2035)	10,402 vpd
K	8.4%
D	50% (EB)
T (PEAK HOUR)	5.8%
T (AVERAGE DAY)	3.6%
DHV	870 vph
DDHV	437 vph
FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL

DATE	DESCRIPTION	REV #
4-13-2018	25% SUBMISSION	1
11-29-2017	PRE-25% SUBMISSION	0

FUSS & O'NEILL
1550 MAIN STREET, SUITE 400
SPRINGFIELD, MA 01103
413.452.0445
www.fando.com

massDOT
Massachusetts Department of Transportation
Highway Division

RECOMMENDED FOR APPROVAL

CHIEF ENGINEER DATE

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

APPROVED

HIGHWAY ADMINISTRATOR DATE

20121457A70_COV001.DWG Plotted on 3-Apr-2018 11:27 AM

GENERAL SYMBOLS

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

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
1	1	CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		VIDEO DETECTION CAMERA
		MICROWAVE DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
	*	EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
RRSG	RRSG	RAILROAD SIGNAL
OR		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
	20'	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
	20'	MAST ARM WITH LUMINAIRE
		OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL AND METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
ONLY	ONLY	LEGEND "ONLY" - WHITE
	SL	STOP LINE
	CW	CROSSWALK
	SWL	SOLID WHITE LINE
	SYL	SOLID YELLOW LINE
	BWL	BROKEN WHITE LINE
	BYL	BROKEN YELLOW LINE
	DWL	DOTTED WHITE LINE
	DYL	DOTTED YELLOW LINE
	DWLEx	DOTTED WHITE LINE EXTENSION
	DYLEx	DOTTED YELLOW LINE EXTENSION
	DBWL	DOUBLE WHITE LINE
	DBYL	DOUBLE YELLOW LINE

TRAFFIC SIGNAL ABBREVIATIONS

CAB.	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY DON'T WALK
FDW	FLASHING DON'T WALK
FR	FLASHING CIRCULAR RED
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FY	FLASHING CIRCULAR AMBER
FYL	FLASHING AMBER LEFT ARROW
FYR	FLASHING AMBER RIGHT ARROW
G	STEADY CIRCULAR GREEN
GL	STEADY GREEN LEFT ARROW
GR	STEADY GREEN RIGHT ARROW
GSL	STEADY GREEN SLASH LEFT ARROW
GSR	STEADY GREEN SLASH RIGHT ARROW
GV	STEADY GREEN VERTICAL ARROW
OL	OVERLAP
PED	PEDESTRIAN
PTZ	PAN, TILE, ZOOM

TRAFFIC SIGNAL ABBREVIATIONS(cont.)

R	STEADY CIRCULAR RED
RL	STEADY RED LEFT ARROW
RR	STEADY RED RIGHT ARROW
TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALK
Y	STEADY CIRCULAR AMBER
YL	STEADY AMBER LEFT ARROW

ABBREVIATIONS

GENERAL

AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADJ	ADJUST
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
BIT.	BITUMINOUS
BC	BOTTOM OF CURB
BD.	BOUND
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	STEADY DON'T WALK - PORTLAND ORANGE
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
NIC	NOT IN CONTRACT
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PSB	PLANTABLE SOIL BORROW
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT

ABBREVIATIONS (cont.)

GENERAL

PWW	PAVED WATER WAY
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE

ABBREVIATIONS (cont.)

GENERAL

VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WCR	WHEEL CHAIR RAMP
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	2	XXX
	PROJECT FILE NO. 608717		

LEGEND & GENERAL NOTES

GENERAL NOTES:

1. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. NO GUARANTEE TO THE ACCURACY OF THE EXISTING UTILITIES FACILITIES SHOWN IN THIS PROJECT IS EXPRESSED OR IMPLIED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL CONTACT "Mass DIG-SAFE", 1-888-344-7233. CONTRACTOR SHALL MAINTAIN MARKINGS WHERE NEEDED DURING PROJECT. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UTILITIES AND SERVICE LATERALS PRIOR TO CONSTRUCTION. ANY CONFLICTS WITH LOCATIONS OF LIGHT POLES, TREES, ETC. SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO CONSTRUCTION.
2. VERIZON UNDERGROUND TELEPHONE: THE PROPOSED UNDERGROUND TELEPHONE RELOCATIONS AS SHOWN ASSUMES INSUFFICIENT COVER DUE TO PROPOSED ROADWAY WORK. ACTUAL LIMITS OF PROPOSED UNDERGROUND TELEPHONE RELOCATIONS WILL BE DETERMINED IN THE FIELD BY TEST PITS. IF COVER CAN NOT BE ACHIEVED VERIZON PREFERS TO LOWER THE LINES IN PLACE.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY LOCAL AND STATE APPROVALS AND PERMITS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS OF THE LOCAL AND STATE AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR THIS WORK INCLUDING BUT NOT LIMITED TO CITY SIDEWALK AND EXCAVATION PERMITS AND ASSOCIATED BONDING.
4. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND STRUCTURES. THOSE OF WHICH HAVE BEEN DAMAGED SHALL BE PROMPTLY REPAIRED TO EXISTING OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
5. THE ROADWAY IS TO BE GRADED SMOOTHLY AND EVENLY IN ACCORDANCE WITH THE GRADING AND TIE PLANS, .PROFILE, AND CROSS SECTIONS. .THE CONTRACTOR IS RESPONSIBLE FOR INSURING A POSITIVE DRAINAGE FLOW TO ALL CATCH BASINS WITHOUT CREATING ANY FLAT SPOTS THAT WILL RESULT IN STANDING WATER.
6. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS TO REMOVE ANY PERSONAL ITEMS, LANDSCAPING, PLANT BULBS, PAVERS LOCATED IN THE TEMPORARY EASEMENT, CITY LAYOUT, AND MassDOT LAYOUT.
7. ANY PUBLIC OR PRIVATE PROPERTY DISTURBED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED AS QUICKLY AS POSSIBLE AND TO THE SATISFACTION OF THE ENGINEER.
8. RIM OR FRAME ELEVATIONS OF ALL UTILITY STRUCTURES SHALL BE ADJUSTED TO MEET FINISHED PAVED SURFACES. PRIVATE UTILITIES WHO ARE RESPONSIBLE FOR ADJUSTING THEIR OWN STRUCTURES SHALL BE NOTIFIED AT LEAST 2 WEEKS IN ADVANCE BY THE CONTRACTOR.
9. STAGING AREAS AND MATERIAL STOCK PILES SHALL BE LIMITED WITHIN THE SITE AND LOCATED SO AS NOT TO INTERFERE WITH PEDESTRIAN OR VEHICULAR TRAFFIC UNLESS APPROVED OTHERWISE BY THE MassDOT AND CITY. THE CONTRACTOR SHALL PROVIDE SAFETY DEVICES (IF ORDERED BY THE ENGINEER) TO PROTECT STOCK PILES/WORK STAGING AREAS. IF THIS WORK IS SO ORDERED THERE WILL BE NO ADDITIONAL COMPENSATION MADE TO THE CONTRACTOR.
10. HOURS OF WORK SHALL BE DEFINED IN THE CONTRACT DOCUMENTS. THE MassDOT RESERVES THE RIGHT TO ADJUST THESE HOURS IN THE INTEREST OF PUBLIC SAFETY.
11. ACCESS TO PRIVATE PROPERTIES MUST BE MAINTAINED AT ALL TIMES. FOR SECURITY REASONS ALL PRIVATELY OWNED FENCING THAT IS TO BE REMOVED SHALL BE REPLACED WITHIN 72 HOURS OF REMOVAL.
12. INSTALL SEDIMENTATION AND EROSION CONTROL MEASURES PRIOR TO START OF CONSTRUCTION. EXISTING AND PROPOSED CATCH BASINS DOWNGRADE OF ALL WORK AREAS SHALL BE SURROUNDED BY EROSION CONTROL MEASURES DURING CONSTRUCTION.

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SPRINGFIELD
"THE X"
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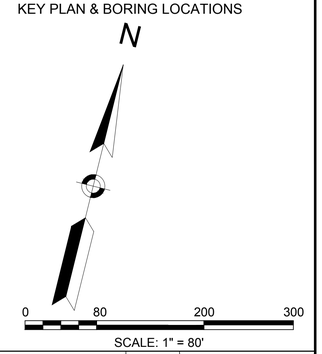
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	3	XXX
	PROJECT FILE NO.	608717	

KEY PLAN & BORING LOCATIONS



CHURCHILL STREET (PUBLIC)
SUMNER TERRACE (PUBLIC)
OAKLAND STREET (PUBLIC)
KENWOOD TERRACE (PUBLIC)
BEAUMONT STREET (PUBLIC)
BELMONT AVENUE (PUBLIC)
SUMNER AVENUE (ROUTE 83) (PUBLIC)
MAIN GREETING ROAD (PUBLIC)
BEGINNING OF PROJECT STA. 1+41.24 N 2857665.2032 E 366818.4113
CONTINUED BELOW
CONSTRUCTION PLAN MARKING PLAN SHEET
CONSTRUCTION PLAN SHEET 01 MARKING PLAN SHEET 01
CONSTRUCTION PLAN SHEET 02 MARKING PLAN SHEET 02
CONSTRUCTION PLAN SHEET 03 MARKING PLAN SHEET 03
CONSTRUCTION PLAN SHEET 04 MARKING PLAN SHEET 04
CONSTRUCTION PLAN SHEET 05 MARKING PLAN SHEET 05
PAVEMENT CORE C-6
PAVEMENT CORE C-4
LIMIT OF WORK STA. 207+00.00 N 2858420.1473 E 368166.8056
GRENADA TERRACE (PUBLIC)
BURLINGTON STREET (PUBLIC)
DICKINSON STREET (PUBLIC)
CONSTRUCTION PLAN SHEET 13 MARKING PLAN SHEET 13
CONSTRUCTION PLAN SHEET 09 MARKING PLAN SHEET 09
VENTURA STREET (PUBLIC)
SORRENTO STREET (PUBLIC)
POMONA STREET (PUBLIC)
CONSTRUCTION PLAN SHEET 07 MARKING PLAN SHEET 07
CONSTRUCTION PLAN SHEET 08 MARKING PLAN SHEET 08
PC +10.40
PT +52.28
BORING B-4
BORING B-6
BORING B-9
PAVEMENT CORE C-2
BORING B-10
END OF PROJECT STA. 34+72.68 N 2858465.5218 E 370055.2735
SUMNER AVENUE (PUBLIC)
SUMNER AVENUE (ROUTE 83) (PUBLIC)
PAVEMENT CORE C-1
BORING B-1
CONTINUED ABOVE
BORING B-5
BORING B-7
BORING B-8
BORING B-11
CONSTRUCTION PLAN SHEET 10 MARKING PLAN SHEET 10
CONSTRUCTION PLAN SHEET 11 MARKING PLAN SHEET 11
CONSTRUCTION PLAN SHEET 12 MARKING PLAN SHEET 12
CONSTRUCTION PLAN SHEET 14 MARKING PLAN SHEET 14
CONSTRUCTION PLAN SHEET 15 MARKING PLAN SHEET 15
PAVEMENT CORE C-5
PAVEMENT CORE C-3
ORMOND STREET (PUBLIC)
DAYTONA STREET (PUBLIC)
COMMONWEALTH AVENUE (PUBLIC)
BELMONT AVENUE (ROUTE 83) (PUBLIC)
LIMIT OF WORK STA. 308+52.39 N 2857907.5315 E 368665.5618
CONSTRUCTION PLAN SHEET 03 MARKING PLAN SHEET 03
CONSTRUCTION PLAN SHEET 04 MARKING PLAN SHEET 04
CONSTRUCTION PLAN SHEET 05 MARKING PLAN SHEET 05
CONSTRUCTION PLAN SHEET 06 MARKING PLAN SHEET 06
CONTINENTAL STREET (PUBLIC)
PARKWOOD STREET (PUBLIC)
CLIFTWOOD STREET (PUBLIC)
LENOX STREET (PUBLIC)
CLIFTWOOD STREET (PUBLIC)
PAVEMENT CORE C-8
PAVEMENT CORE C-9
LIMIT OF WORK STA. 413+33.82 N 2857977.9211 E 368031.9618
K PATH

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Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
MS VIEW: - LAYER STATE: -

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	4	XXX
PROJECT FILE NO.	608717		

KEY PLAN & BORING LOCATIONS

N

0 80 200 300

SCALE: 1" = 80'

BEAUMONT STREET (PUBLIC)
PAVEMENT CORE C-6
LIMIT OF WORK STA. 201+00.00 N 2958857.1478 E 3681857.9088
PAVEMENT CORE C-4
BELMONT AVENUE (PUBLIC)
CONSTRUCTION PLAN SHEET 09 MARKING PLAN SHEET 09
BURLINGTON STREET (PUBLIC)
GRENADA TERRACE (PUBLIC)
DICKINSON STREET (PUBLIC)
CONSTRUCTION PLAN SHEET 13 MARKING PLAN SHEET 13
VENTURA STREET (PUBLIC)
SORRENTO STREET (PUBLIC)
CONSTRUCTION PLAN SHEET 16 MARKING PLAN SHEET 16
OAKLAND STREET (PUBLIC)
KENWOOD TERRACE (PUBLIC)
BEAUMONT STREET (PUBLIC)
BORING B-2
BORING B-4
BORING B-6
BORING B-9
PC +10.40
PT +52.28
CONSTRUCTION PLAN SHEET 07 MARKING PLAN SHEET 07
BELMONT AVENUE (PUBLIC)
SUMNER AVENUE (ROUTE 83) (PUBLIC)
PAVEMENT CORE C-1
BORING B-1
BORING B-5
BORING B-7
BORING B-8
CONSTRUCTION PLAN SHEET 10 MARKING PLAN SHEET 10
CONSTRUCTION PLAN SHEET 15 MARKING PLAN SHEET 15
PAVEMENT CORE C-5
DICKINSON STREET (PUBLIC)
CONSTRUCTION PLAN SHEET 02 MARKING PLAN SHEET 02
CONSTRUCTION PLAN SHEET 03 MARKING PLAN SHEET 03
CONSTRUCTION PLAN SHEET 04 MARKING PLAN SHEET 04
CONSTRUCTION PLAN SHEET 05 MARKING PLAN SHEET 05
CONSTRUCTION PLAN SHEET 06 MARKING PLAN SHEET 06
CONSTRUCTION PLAN SHEET 17 MARKING PLAN SHEET 17
CONTINENTAL STREET (PUBLIC)
PARKWOOD STREET (PUBLIC)
CLIFTWOOD STREET (PUBLIC)
LENOX STREET (PUBLIC)
CONSTRUCTION PLAN SHEET 14 MARKING PLAN SHEET 14
CONSTRUCTION PLAN SHEET 11 MARKING PLAN SHEET 11
COMMONWEALTH AVENUE (PUBLIC)
BELMONT AVENUE (PUBLIC)
FOREST PARK PATH
PAVEMENT CORE C-8
CLIFTWOOD STREET (PUBLIC)
PAVEMENT CORE C-9
LIMIT OF WORK STA. 413+33.82 N 2957103.1806 E 3687107.1614
4+14+40.71
CONSTRUCTION PLAN SHEET 18 MARKING PLAN SHEET 18
CONSTRUCTION PLAN SHEET 19 MARKING PLAN SHEET 19
CONSTRUCTION PLAN SHEET 20 MARKING PLAN SHEET 20
CONSTRUCTION PLAN SHEET 21 MARKING PLAN SHEET 21

20121457A70_KEY01.DWG Plotted on 2-Apr-2018 3:14 PM

File Path: J:\DWG\P2012\1457A70\Civil\Plan\20121457A70_KEY01.dwg Layout: KEY02 Plotted: Mon, April 02, 2018 - 3:14 PM User: mperalta
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
LAYER STATE: -
MS VIEW: -

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	5	XXX
PROJECT FILE NO.	608717		

BORING LOGS

20121457A7D_BOR01.DWG Plotted on 2-Apr-2018 3:17 PM

Client: Fuss & O'Neill
Location: The "X" Spfld. MA
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-1
Monitor Well ID:
Sheet No. 1 of 1

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53
Start: 5/8/2017
Finish: 5/8/2017
Driller: Jeff Nitch

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0'-2'	3-6-5-4	S-1	17"	Moist Brown Fine SAND, Little Silt, Trace Coarse SAND, Trace Gravel.
5'-7'	1-1-1-3	S-2	19"	Dry Brown Fine SAND, Trace Coarse SAND, Trace Organics.
10'-12'	4-5-6-10	S-3	15"	Dry Brown Fine SAND, Little Coarse SAND.
				Wet @ +/- 14' 4"
15'-17'	4-6-9-10	S-4	23"	Wet Brown Fine SAND.
20'-22'	5-7-9-16	S-5	24"	Wet Brown Fine SAND, Trace Silt.
25'-27'	5-8-16-20	S-6	23"	Wet Brown Fine SAND, Trace Silt.
				E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 1

Client: Fuss & O'Neill
Location: The "X" Spfld. MA
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-2
Monitor Well ID:
Sheet No. 1 of 1

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53
Start: 5/8/2017
Finish: 5/8/2017
Driller: Jeff Nitch

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0'-2'	4-5-5-4	S-1	18"	Dry Brown Fine SAND, Trace Coarse SAND, Trace Gravel, Trace Silt.
5'-7'	1-2-1-4	S-2	16"	Dry Brown Fine SAND, Trace Silt.
10'-12'	3-4-4-4	S-3	15"	Dry Brown Fine SAND, Trace Coarse SAND, Trace Silt.
				Wet @ +/- 14'
15'-17'	4-6-9-9	S-4	23"	Wet Brown Fine SAND, Trace Silt.
20'-22'	6-7-12-7	S-5	24"	Wet Brown Fine SAND, Trace Silt.
25'-27'	5-6-8-8	S-6	24"	Wet Brown Fine SAND, Trace Silt.
				E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 2

Client: Fuss & O'Neill
Location: The "X" Spfld. MA
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-4
Monitor Well ID:
Sheet No. 1 of 1

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53
Start: 5/8/2017
Finish: 5/8/2017
Driller: Jeff Nitch

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0'-2'	4-8-12-9	S-1	17"	Dry Brown Fine and Coarse SAND and Gravel.
5'-7'	5-7-10-10	S-2	14"	Dry Brown Fine SAND.
10'-12'	5-8-10-10	S-3	16"	Dry Brown Fine SAND.
15'-17'	4-4-5-5	S-4	18"	Dry Brown Fine SAND.
20'-22'	5-5-5-5	S-5	20"	Wet Brown Fine SAND.
25'-27'	6-6-8-11	S-6	24"	Wet Brown Fine SAND, Trace Coarse SAND.
				E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 4

MAST ARM AND STRAIN POLE LOCATION KEY

NO.	STATION/OFFSET	INTERSECTION	MAST ARM SIZE	SOIL BORING NO.	SOIL TYPE	FOUNDATION DEPTH

TABLE TO BE COMPLETED AT 75% DESIGN

Client: Fuss & O'Neill
Location: The "X" Spfld. MA
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-5
Monitor Well ID:
Sheet No. 1 of 1

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53
Start: 5/8/2017
Finish: 5/8/2017
Driller: Jeff Nitch

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0'-2'	3-4-5-5	S-1	18"	Dry Brown Fine SAND, Trace Organics, Trace Silt.
5'-7'	4-5-7-7	S-2	17"	Dry Brown Fine SAND, Trace Silt.
10'-12'	4-5-5-8	S-3	20"	Dry Brown Fine SAND, Trace Silt.
15'-17'	5-7-6-6	S-4	15"	Dry Brown Fine SAND, Trace Silt.
20'-22'	6-9-8-8	S-5	19"	Wet Brown Fine SAND, Trace Silt.
25'-27'	5-12-15-17	S-6	24"	Wet Brown Fine SAND, Little Silt.
				E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 5

Client: Fuss & O'Neill
Location: The "X" Spfld. MA
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-6
Monitor Well ID:
Sheet No. 1 of 1

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53
Start: 5/9/2017
Finish: 5/9/2017
Driller: Jeff Nitch

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
1'-3'	18-9-7-10	S-1	17"	Dry Brown Fine SAND, Trace Coarse SAND, Trace Gravel, Trace Silt.
5'-7'	9-12-12-13	S-2	6"	Dry Brown Fine SAND, Trace Coarse SAND.
10'-12'	8-8-9-9	S-3	10"	Dry Brown Fine SAND.
15'-17'	4-7-8-11	S-4	20"	Dry Brown Medium SAND, Little Fine SAND.
20'-22'	4-6-6-8	S-5	23"	Wet Brown Fine SAND, Trace Coarse SAND, Trace Silt.
25'-27'	4-7-9-14	S-6	24"	Wet Brown Fine SAND, Trace Coarse SAND, Trace Silt.
				E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 6

Client: Fuss & O'Neill
Location: The "X" Spfld. MA
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-7
Monitor Well ID:
Sheet No. 1 of 1

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53
Start: 5/8/2017
Finish: 5/8/2017
Driller: Jeff Nitch

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
1'-3'	7-9-11-7	S-1	13"	8" Asphalt Moist Brown Fine and Coarse SAND and Gravel, Trace Silt.
5'-7'	4-8-8-9	S-2	3"	Moist Brown Fine and Coarse SAND and Gravel, Trace Silt.
10'-12'	7-8-10-10	S-3	6"	Dry Brown Fine SAND, Trace Silt.
15'-17'	5-7-7-7	S-4	19"	Dry Gray Brown Fine SAND, Little Silt.
				Wet @ +/- 16' - 19'
20'-22'	4-5-9-9	S-5	23"	Wet Brown Fine SAND, Trace Coarse SAND, Trace Gravel, Trace Silt.
25'-27'	4-6-18-19	S-6	24"	Wet Brown Fine SAND, Trace Silt.
				E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 7

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	6	XXX
PROJECT FILE NO.	608717		

BORING LOGS

20121457A7D_BOR01.DWG Plotted on 2-Apr-2018 3:17 PM

Client: Fuss & O'Neill
Location: The "X" Spfld. MA.
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-8
Monitor Well ID:
Sheet No. 1 of 1
Start: 5/18/2017
Finish: 5/18/2017
Driller: Jeff Nitch

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0'-2'	1-4-14-23	S-1	17"	Moist Brown Fine SAND and Gravel, Little Coarse SAND, Trace Silt.
5'-7'	4-5-6-7	S-2	16"	Dry Brown Fine and Coarse SAND, Trace Gravel.
10'-12'	7-9-9-11	S-3	7"	Dry Brown Fine SAND, Trace Silt.
15'-17'	4-7-7-8	S-4	22"	Dry Brown Fine SAND, Trace Silt.
20'-22'	3-5-7-8	S-5	15"	Wet Brown Fine SAND, Little Silt, Trace Coarse SAND.
25'-27'	7-8-9-11	S-6	23"	Wet Brown Fine SAND, Trace Coarse SAND, Trace Silt. E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 8

Client: Fuss & O'Neill
Location: The "X" Spfld. MA.
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-9
Monitor Well ID:
Sheet No. 1 of 1
Start: 5/8/2017
Finish: 5/8/2017
Driller: Jeff Nitch

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0'-2'	4-2-2-2	S-1	13"	Dry Brown Fine SAND, Trace Coarse SAND, Trace Gravel, Trace Silt.
5'-7'	3-5-5-7	S-2	16"	Dry Brown Fine SAND, Trace Silt.
10'-12'	4-5-6-8	S-3	19"	Dry Brown Fine SAND, Trace Silt.
15'-17'	3-5-8-9	S-4	19"	Dry Brown Fine SAND, Trace Silt. Wet @ +/- 19' - 20'
20'-22'	5-8-13-14	S-5	23"	Wet Brown Fine SAND, Trace Silt.
25'-27'	6-7-13-18	S-6	24"	Wet Brown Fine SAND, Trace Coarse SAND, Trace Gravel, Trace Silt. E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 9

Client: Fuss & O'Neill
Location: The "X" Spfld. MA.
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-10
Monitor Well ID:
Sheet No. 1 of 1
Start: 5/8/2017
Finish: 5/8/2017
Driller: Jeff Nitch

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0'-2'	3-2-2-2	S-1	9"	Dry Brown Fine SAND, Trace Coarse SAND, Trace Silt.
5'-7'	3-3-4-6	S-2	14"	Dry Brown Fine and Coarse SAND, Trace Gravel, Trace Silt.
10'-12'	6-7-8-8	S-3	16"	Dry Brown Fine SAND, Trace Coarse SAND.
15'-17'	4-5-7-10	S-4	16"	Moist Brown Fine SAND Wet @ +/- 19'
20'-22'	5-8-9-10	S-5	23"	Wet Brown Fine SAND, Trace Silt.
25'-27'	5-7-24-33	S-6	24"	Top 20": Wet Brown Fine SAND, Trace Silt. Bottom 4": Wet Brown Silt and Fine SAND. E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 10

Client: Fuss & O'Neill
Location: The "X" Spfld. MA.
Project: Soil and Pavement Cores
Contractor: Seaboard Drilling, Inc.

SEABOARD DRILLING, INC.
649 Meadow St., Chicopee, MA 01013
DRILLING/SOIL LOG

Test Borin B-11
Monitor Well ID:
Sheet No. 1 of 1
Start: 5/8/2017
Finish: 5/8/2017
Driller: Jeff Nitch

	Casing		Core Barrel
Type	HSA	SS	N/A
O.D. Inch	8-1/2"		
I.D. Inch	4-1/4"		

Hammer (Weight-lb./fall-30") 140/30 300/24
Rig Type: B-53

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0'-2'	2-3-5-6	S-1	17"	Dry Brown Fine SAND, Little Silt, Trace Coarse SAND, Trace Organic Material.
5'-7'	5-5-8-10	S-2	17"	Dry Brown Fine SAND, Trace Coarse SAND, Trace Silt.
10'-12'	5-6-8-10	S-3	20"	Moist Brown Fine SAND, Trace Silt.
15'-17'	6-9-10-12	S-4	10"	Moist Brown Fine SAND, Trace Silt. Wet @ +/- 19'
20'-22'	4-6-10-12	S-5	22"	Wet Brown Fine SAND.
25'-27'	4-6-11-13	S-6	24"	Wet Brown Fine SAND, Trace Coarse SAND, Trace Gravel. E.O.B @ 27'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING 11

GENERAL PAVEMENT NOTES:

THE GENERAL NOTES BELOW APPLY TO ALL SIDEWALKS AND DRIVEWAYS WITHIN PROJECT PROJECT LIMITS

PROPOSED CEMENT CONCRETE SIDEWALK

SURFACE: 4" CEMENT CONCRETE
AIR ENTRAINED 4000psi, 3/4", 610

FOUNDATION: 8" GRAVEL BORROW, TYPE b.

PROPOSED CEMENT CONCRETE WHEELCHAIR RAMP

SURFACE: 6" CEMENT CONCRETE
AIR ENTRAINED 4000psi, 3/4", 610

WIRE MESH: PLACE 6"X 6" #10/10 WELDED WIRE MESH AT MIDPT. OF CONC. THICKNESS

FOUNDATION: 8" GRAVEL BORROW, TYPE b.

PROPOSED HOT MIX ASPHALT DRIVEWAY

SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE - 9.5 OVER
2" SUPERPAVE INTERMEDIATE COURSE - 12.5

FOUNDATION: 8" GRAVEL BORROW, TYPE b.

PROPOSED SHARED-USE PATH FULL DEPTH PAVEMENT

SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE - 9.5 OVER
2-1/2" SUPERPAVE INTERMEDIATE COURSE - 19.0

FOUNDATION: 4" DENSE GRADED CRUSH STONE, OVER
8" GRAVEL BORROW, TYPE b.

PROPOSED CEMENT CONCRETE DRIVEWAY & SIDEWALK THROUGH DRIVEWAY (RESIDENTIAL)

SURFACE: 6" CEMENT CONCRETE
AIR ENTRAINED 4000psi, 3/4", 610

WIRE MESH: PLACE 6"X 6" #10/10 WELDED WIRE MESH AT MIDPT. OF CONC. THICKNESS

FOUNDATION: 8" GRAVEL BORROW, TYPE b.

PROPOSED CEMENT CONCRETE DRIVEWAY & SIDEWALK THROUGH DRIVEWAY (COMMERCIAL)

SURFACE: 9" CEMENT CONCRETE
AIR ENTRAINED 4000psi, 3/4", 610

REINFORCEMENT: PLACE #3 BARS, 12" O.C., AT 3" ABOVE GRAVEL FOUNDATION

FOUNDATION: 8" GRAVEL BORROW, TYPE b.

NOTES: ASPHALT EMULSION FOR TACK COAT AND HMA JOINT SEALANT SHALL BE APPLIED PER SECTION 450 QA OF THE SPECIAL PROVISIONS.

HMA FOR PATCHING SHALL BE USED FOR ALL PERMANENT, PARTIAL, AND FULL DEPTH PAVEMENT REPAIRS OF UNSOUND PAVEMENT PER SECTION 450. FOR REPAIRS OF UNSOUND EXISTING CONCRETE BASE SEE CONCRETE BASE REPAIR DETAIL ON SHEET 141.

HMA FOR MISCELLANEOUS WORK SHALL BE USED FOR ALL TEMPORARY CONSTRUCTION,RAMPS, CURB CUT RAMPS, ETC.

24" SPECIAL BORROW SHALL BE PLACED AS NEEDED IN THREE LIFTS UNDER AREAS OF FULL DEPTH WIDENING WHERE EXISTING SUBGRADE IS DETERMINED TO BE UNSUITABLE AS DIRECTED BY THE ENGINEER.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	7	XXX
PROJECT FILE NO.	608717		

TYPICAL SECTIONS - SUMNER AVENUE

SUMNER PAVEMENT NOTES

PROPOSED PAVEMENT MICROMILLING AND OVERLAY

MILLING: 3" PAVEMENT MICROMILLING

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 9.5 OVER
2-1/4" SUPERPAVE INTERMEDIATE COURSE - 12.5

PROPOSED FULL DEPTH CONSTRUCTION

SURFACE: 1 3/4 " SUPERPAVE SURFACE COURSE - 9.5 OVER

INTERMEDIATE: 2 1/4 " SUPERPAVE INTERMEDIATE COURSE - 12.5 OVER

BASE: 3 1/2 " SUPERPAVE BASE COURSE - 37.5 OVER

SUBBASE: 4 " DENSE GRADED CRUSHED STONE OVER
12" GRAVE BORROW, TYPE b.

PROPOSED FULL DEPTH CONSTRUCTION (LESS THAN 4.0' WIDE)

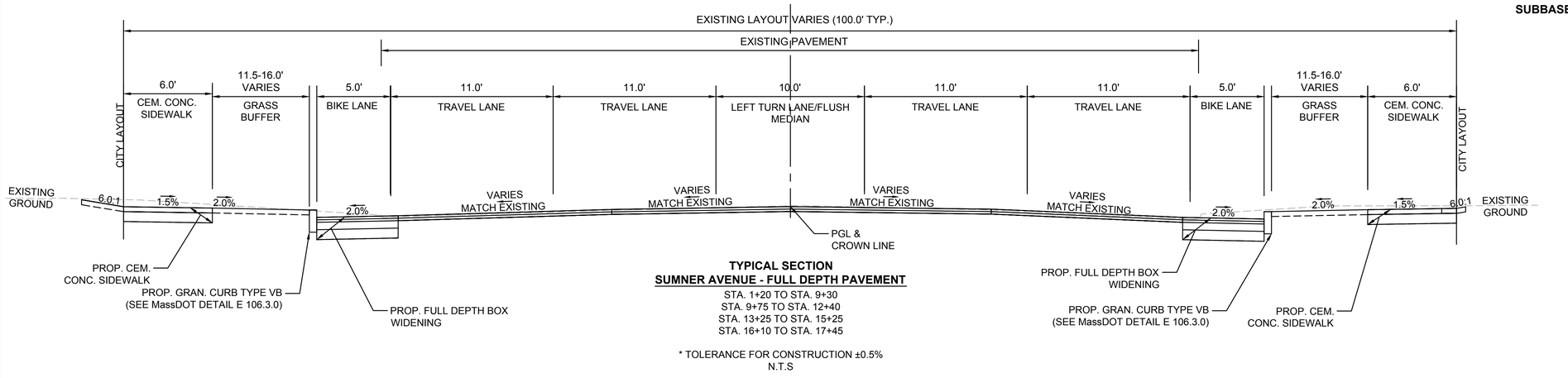
SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 9.5 OVER

INTERMEDIATE: 2-1/4" SUPERPAVE INTERMEDIATE COURSE - 12.5 OVER

BASE: 6" HIGH EARLY STRENGTH CEMENT
CONCRETE BASE COURSE - 4000psi, 610, 3/4" OVER

SUBBASE: 8" GRAVEL BORROW, TYPE b.

CONST. ℄

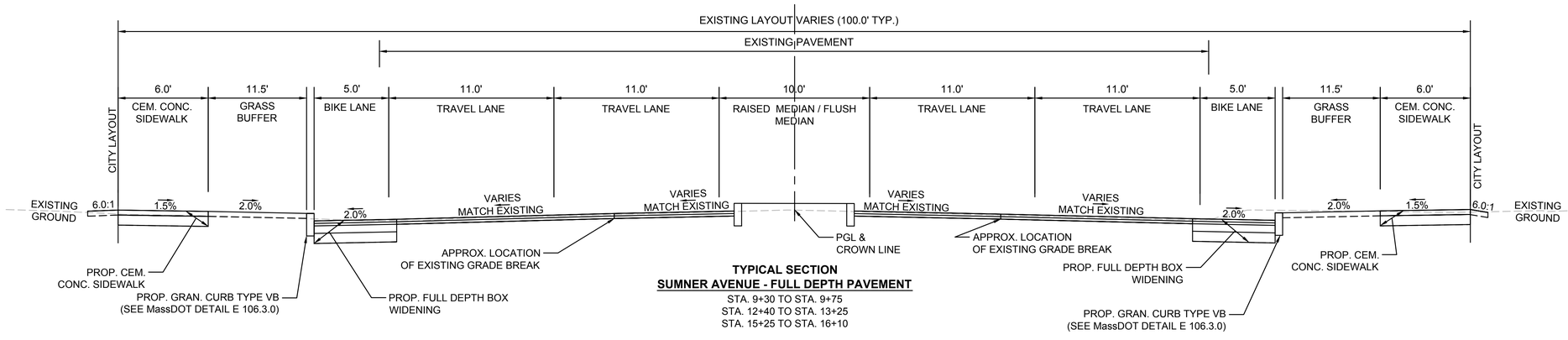


TYPICAL SECTION
SUMNER AVENUE - FULL DEPTH PAVEMENT

STA. 1+20 TO STA. 9+30
STA. 9+75 TO STA. 12+40
STA. 13+25 TO STA. 15+25
STA. 16+10 TO STA. 17+45

* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

CONST. ℄



TYPICAL SECTION
SUMNER AVENUE - FULL DEPTH PAVEMENT

STA. 9+30 TO STA. 9+75
STA. 12+40 TO STA. 13+25
STA. 15+25 TO STA. 16+10

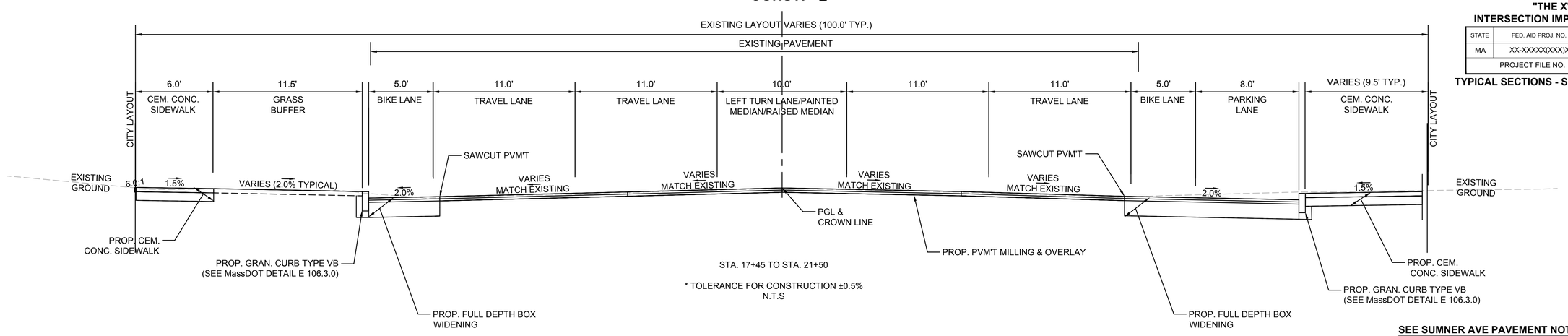
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

20121457A70_TYP01.DWG Plotted on 2-Apr-2018 3:21 PM

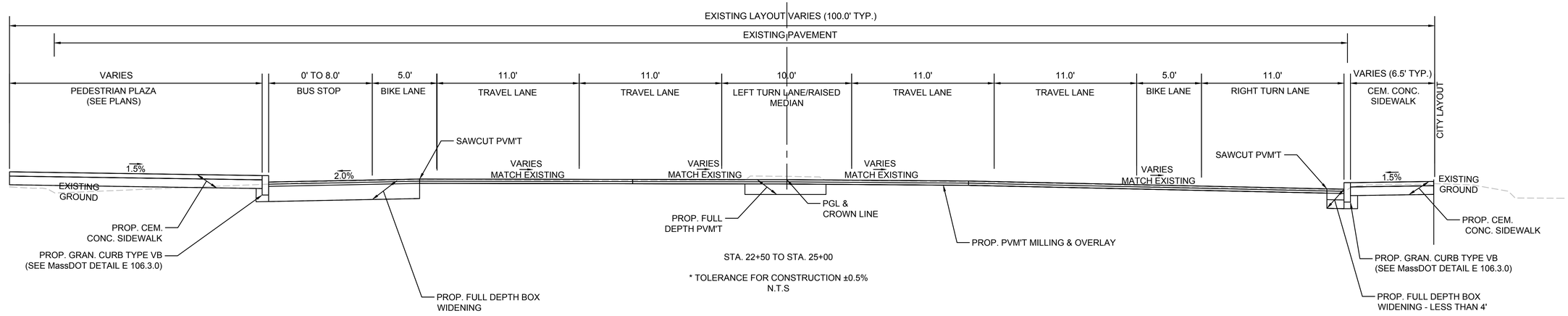
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

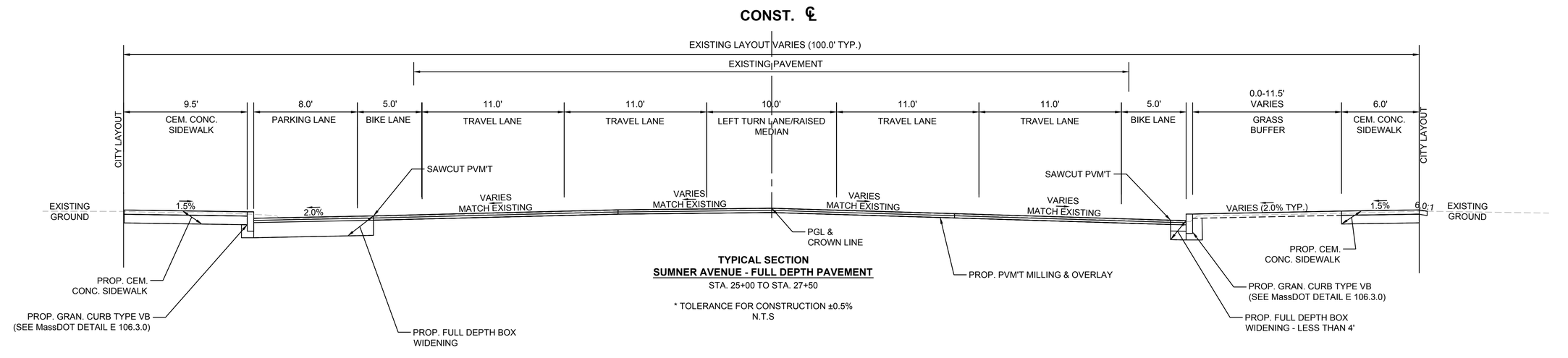
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	8	XXX
PROJECT FILE NO.	608717		

TYPICAL SECTIONS - SUMNER AVENUE



SEE SUMNER AVE PAVEMENT NOTES (SHEET XX)





TYPICAL SECTION
SUMNER AVENUE - FULL DEPTH PAVEMENT
STA. 25+00 TO STA. 27+50

* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

20121457A70_TYP01.DWG Plotted on 2-Apr-2018 3:21 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

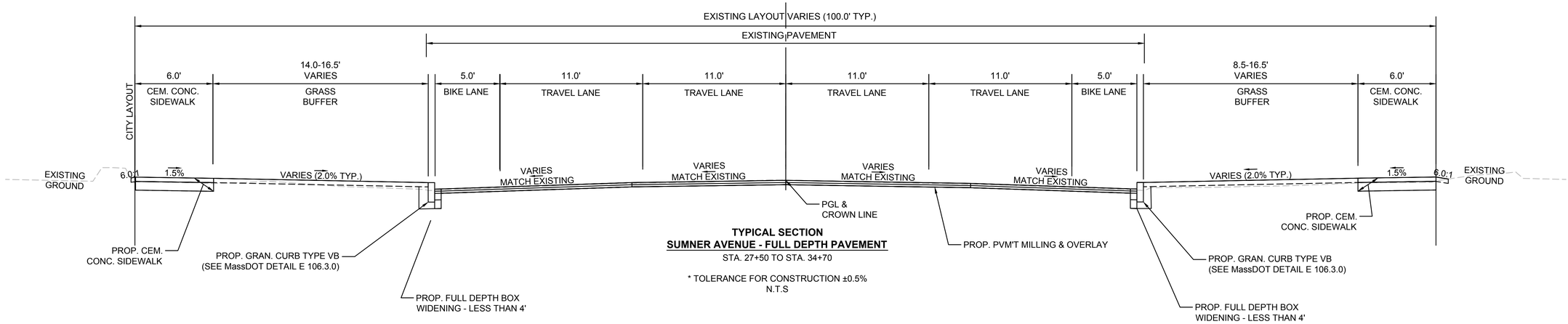
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	9	XXX
PROJECT FILE NO.	608717		

TYPICAL SECTIONS - SUMNER AVENUE

Plotted on 2-Apr-2018 3:21 PM
20121457A70_TYP01.DWG

CONST. ℄

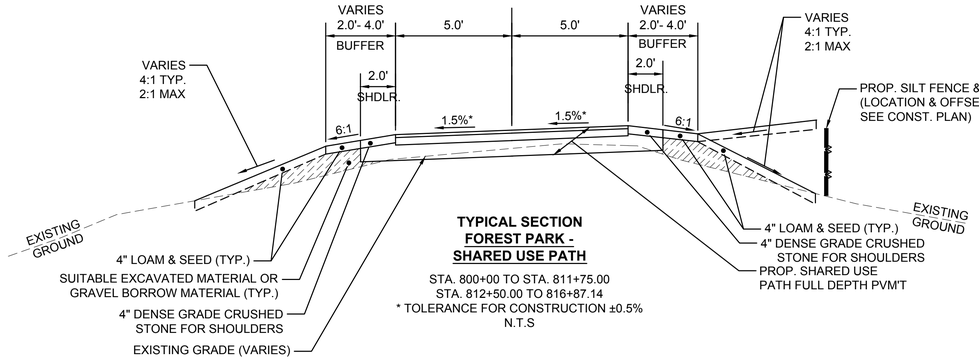
SEE SUMNER AVE PAVEMENT NOTES (SHEET XX)



TYPICAL SECTION
SUMNER AVENUE - FULL DEPTH PAVEMENT
STA. 27+50 TO STA. 34+70

* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

CONST. ℄

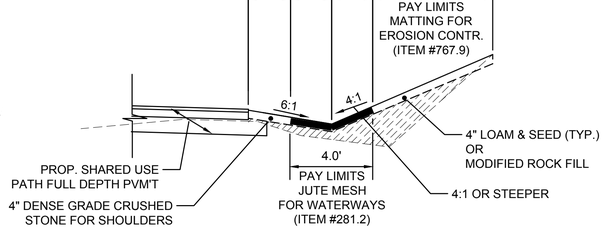


TYPICAL SECTION
FOREST PARK -
SHARED USE PATH
STA. 800+00 TO STA. 811+75.00
STA. 812+50.00 TO 816+87.14
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

NOTES:

1) MATTING FOR EROSION CONTROL SHALL BE INSTALLED ON SIDE SLOPES THAT ARE 2:1 OR STEEPER THAT ARE NOT WITHIN JUTE MESH WATERWAY AREAS.

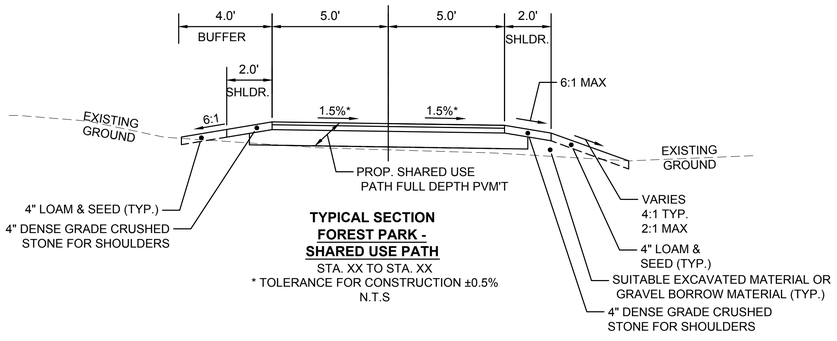
2) MODIFIED ROCK FILL SHALL BE USED AS NEEDED ON ANY CUT OR FILL SLOPES STEEPER THAN 2:1 WHERE POOR SOIL CONDITIONS EXIST AND MATTING FOR EROSION CONTROL IS DEEMED INADEQUATE AS DIRECTED BY THE ENGINEER.



TYPICAL SECTION
TYPICAL TREATMENT OF GRASS DITCH
& SIDE SLOPES
STATION RANGE VARIES
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

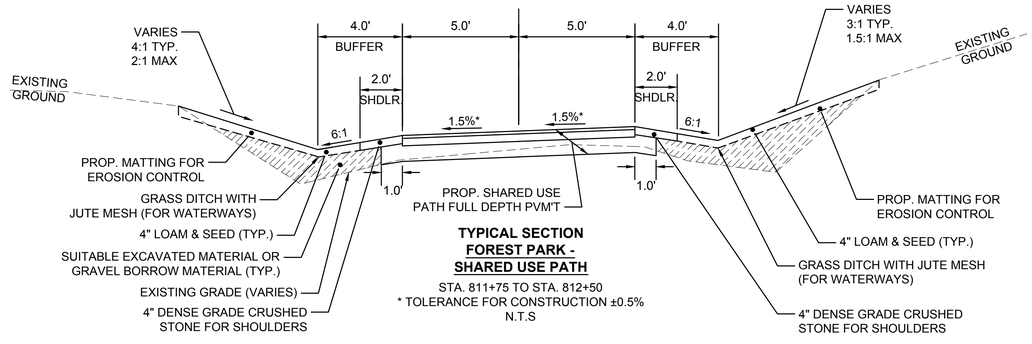
SEE SHARED-USE PATH PAVEMENT NOTES (SHEET XX)

CONST. ℄



TYPICAL SECTION
FOREST PARK -
SHARED USE PATH
STA. XX TO STA. XX
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

CONST. ℄



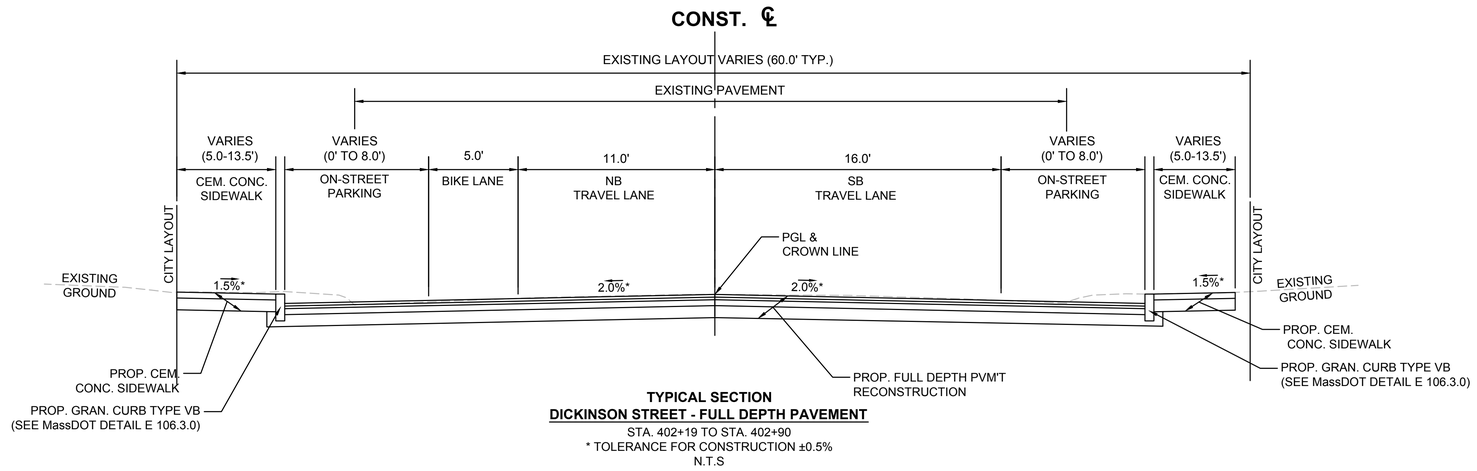
TYPICAL SECTION
FOREST PARK -
SHARED USE PATH
STA. 811+75 TO STA. 812+50
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

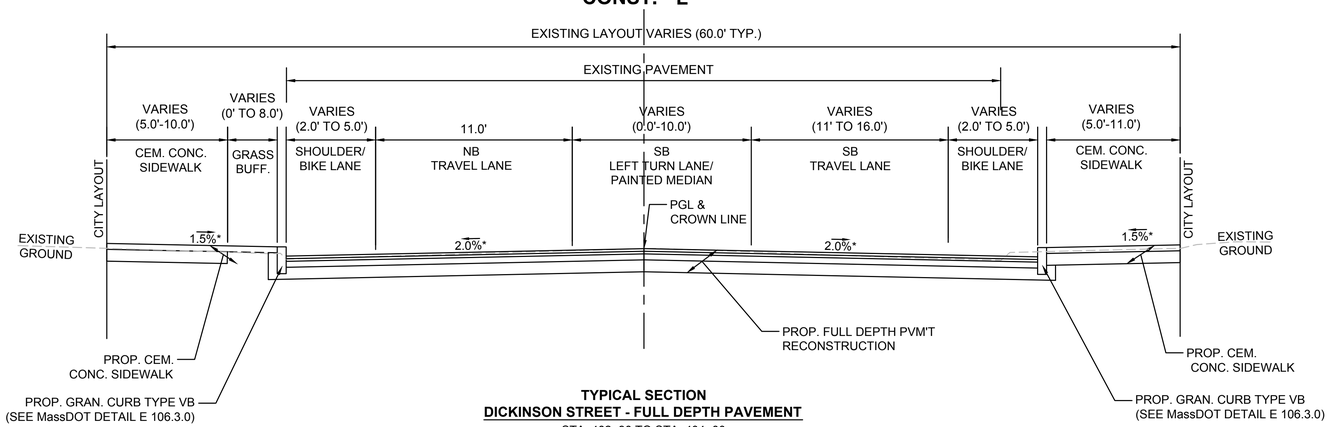
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	10	XXX
PROJECT FILE NO.	608717		

TYPICAL SECTIONS - DICKINSON STREET

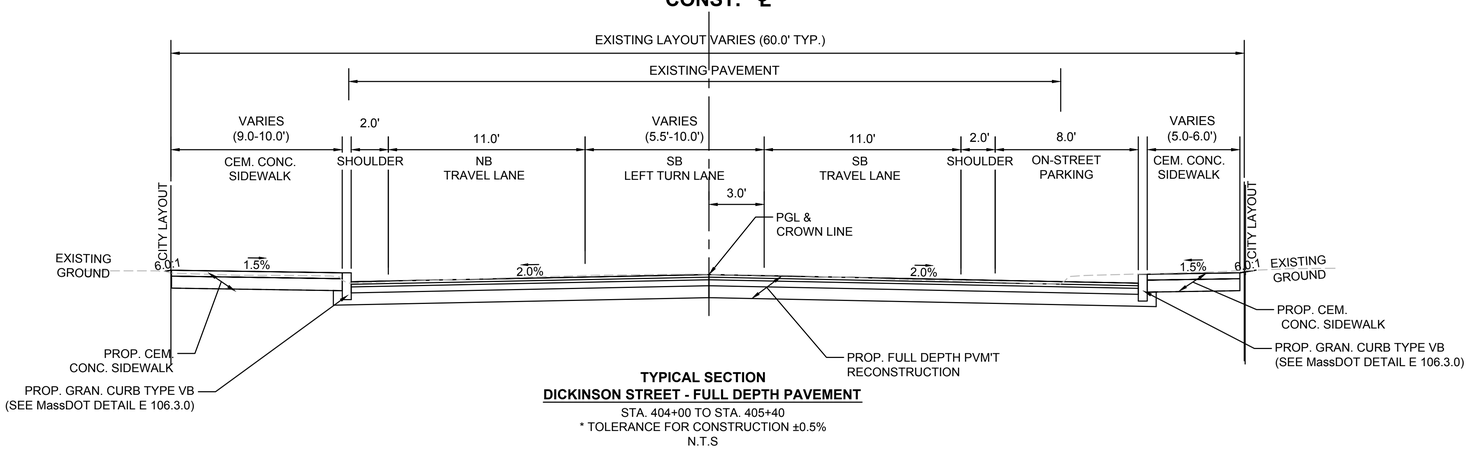
Plotted on 2-Apr-2018 3:21 PM
20121457A70_TYP01.DWG



TYPICAL SECTION
DICKINSON STREET - FULL DEPTH PAVEMENT
STA. 402+19 TO STA. 402+90
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
DICKINSON STREET - FULL DEPTH PAVEMENT
STA. 402+90 TO STA. 404+00
STA. 405+40 TO STA. 410+00
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
DICKINSON STREET - FULL DEPTH PAVEMENT
STA. 404+00 TO STA. 405+40
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

DICKINSON PAVEMENT NOTES

PROPOSED FULL DEPTH CONSTRUCTION

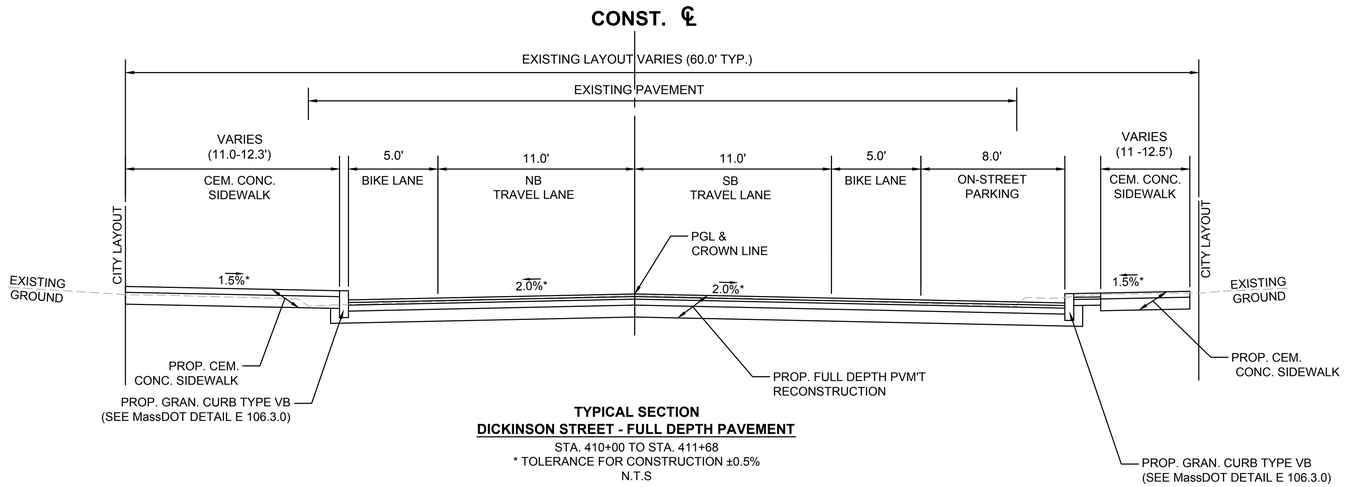
SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 9.5 OVER
INTERMEDIATE: 1-3/4" SUPERPAVE INTERMEDIATE COURSE - 12.5 OVER
BASE: 3-1/2" SUPERPAVE BASE COURSE - 37.5 OVER
SUBBASE: 4" DENSE GRADED CRUSHED STONE, OVER
8" GRAVEL BORROW, TYPE b.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	11	XXX
	PROJECT FILE NO.	608717	

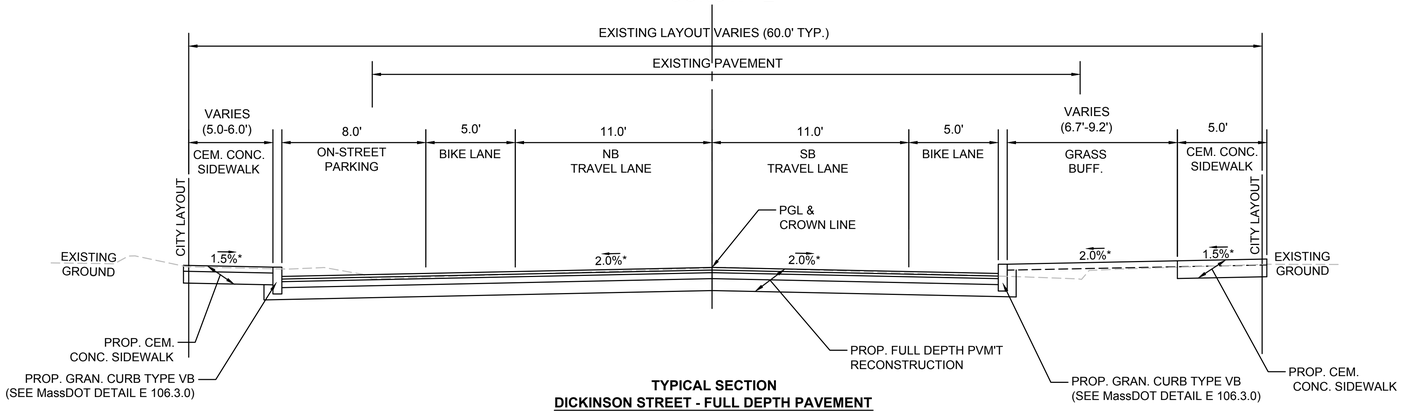
TYPICAL SECTIONS - DICKINSON STREET

20121457A70_TYP01.DWG Plotted on 2-Apr-2018 3:21 PM



TYPICAL SECTION
DICKINSON STREET - FULL DEPTH PAVEMENT
STA. 410+00 TO STA. 411+68
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

SEE DICKINSON STREET PAVEMENT NOTES (SHEET XX)



TYPICAL SECTION
DICKINSON STREET - FULL DEPTH PAVEMENT
STA. 411+68 TO STA. 412+30
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	12	XXX
PROJECT FILE NO.	608717		

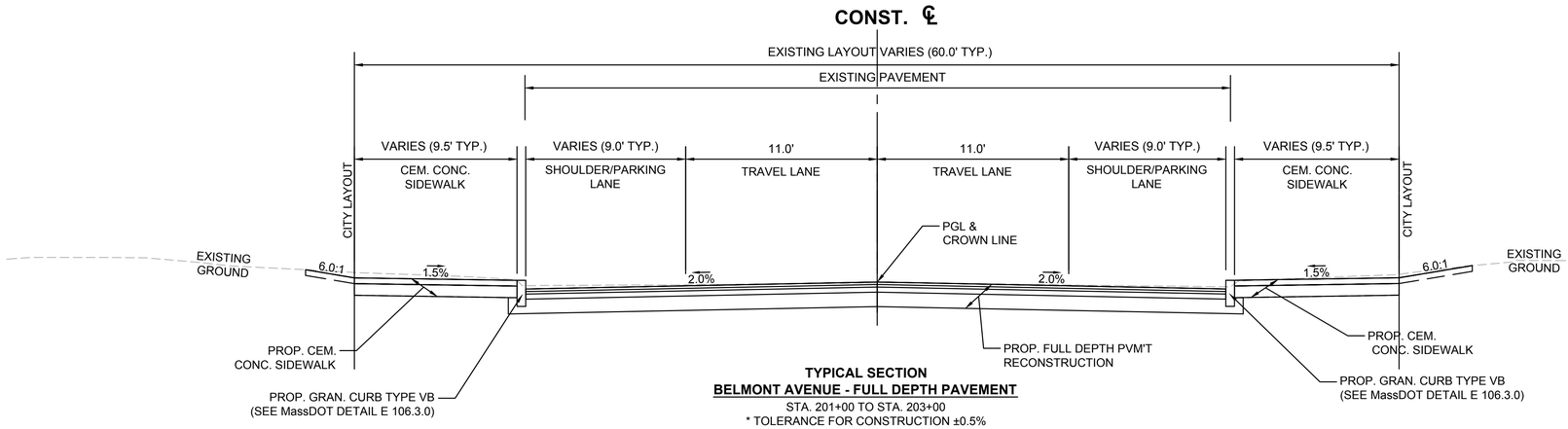
TYPICAL SECTIONS - BELMONT AVE.

20121457A70_TYP01.DWG Plotted on 2-Apr-2018 3:21 PM

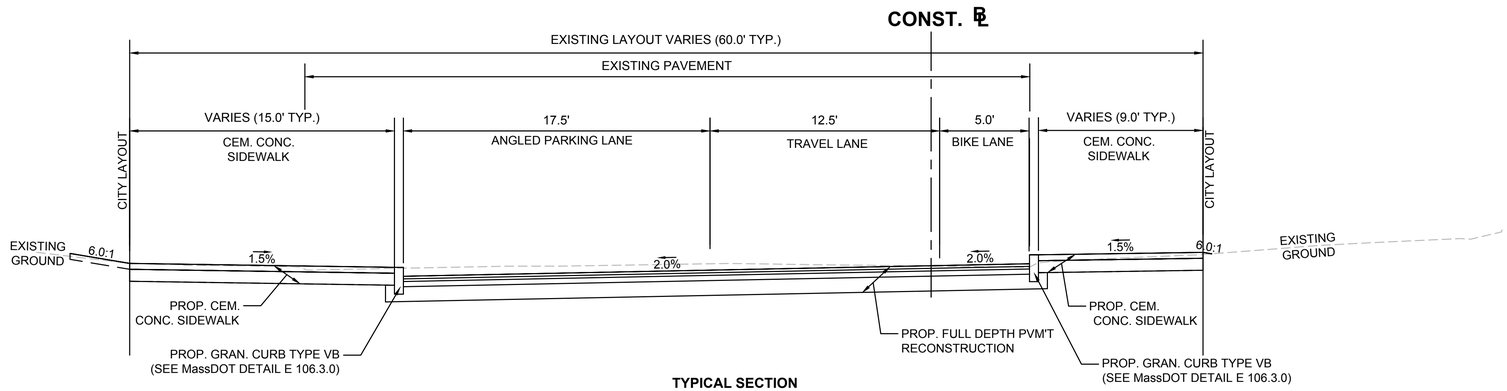
BELMONT PAVEMENT NOTES

PROPOSED FULL DEPTH CONSTRUCTION

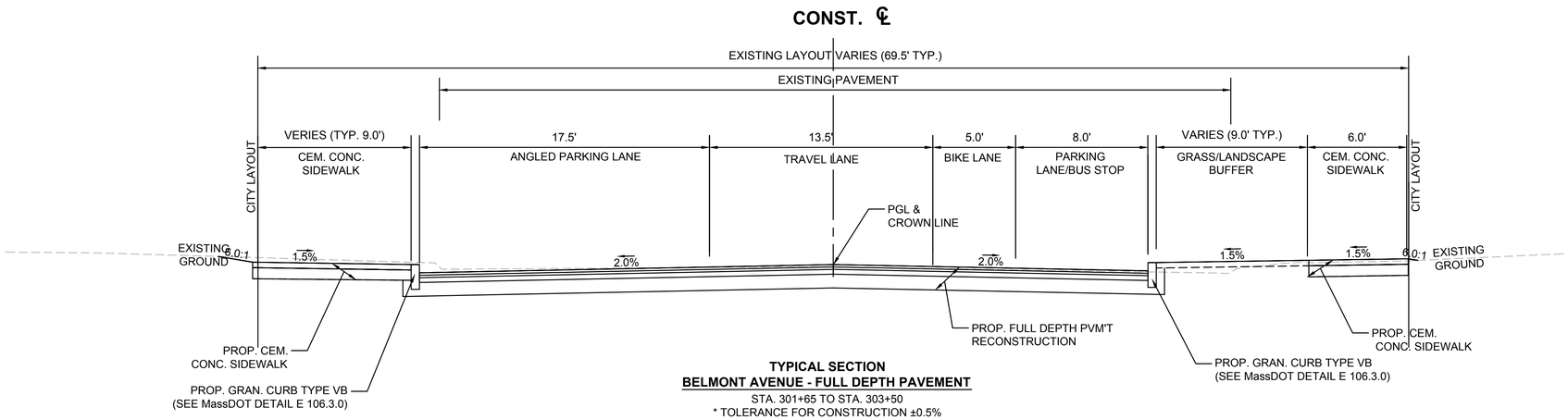
SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 9.5 OVER
INTERMEDIATE: 1-3/4" SUPERPAVE INTERMEDIATE COURSE - 12.5 OVER
3-1/2" SUPERPAVE BASE COURSE - 37.5 OVER
SUBBASE: 4" DENSE GRADED CRUSHED STONE, OVER
10" GRAVEL BORROW, TYPE b.



TYPICAL SECTION
BELMONT AVENUE - FULL DEPTH PAVEMENT
STA. 201+00 TO STA. 203+00
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
BELMONT AVENUE - FULL DEPTH PAVEMENT
STA. 250+75 TO STA. 252+65
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



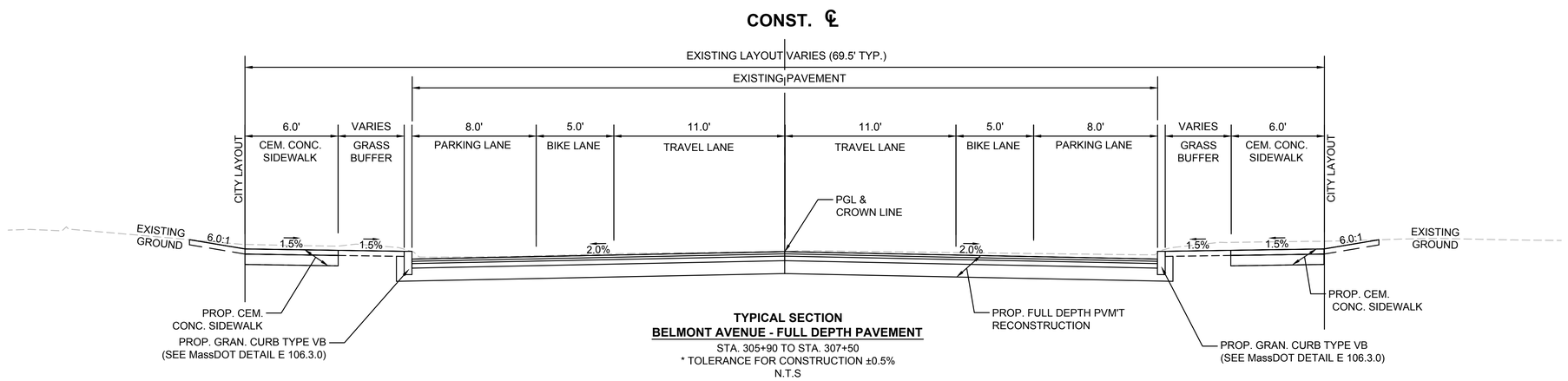
TYPICAL SECTION
BELMONT AVENUE - FULL DEPTH PAVEMENT
STA. 301+65 TO STA. 303+50
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	13	XXX
PROJECT FILE NO.	608717		

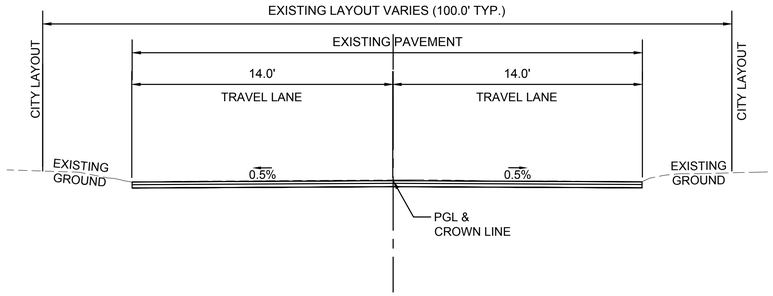
TYPICAL SECTIONS - BELMONT AVENUE

20121457A70_TYP01.DWG Plotted on 2-Apr-2018 3:22 PM



TYPICAL SECTION
BELMONT AVENUE - FULL DEPTH PAVEMENT
STA. 305+90 TO STA. 307+50
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

SEE BELMONT PAVEMENT NOTES (SHEET XX)



TYPICAL SECTION
BURLINGTON STREET - PAVEMENT MILLING & OVERLAY
STA. 205+33.20 TO STA. 207+39.80

* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

BURLINGTON STREET PAVEMENT NOTES

BURLINGTON - PROPOSED PAVEMENT MICROMILLING AND OVERLAY

MILLING: 3" PAVEMENT MICROMILLING

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 9.5
2-1/4" SUPERPAVE INTERMEDIATE COURSE - 12.5

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	14	XXX
PROJECT FILE NO.	608717		

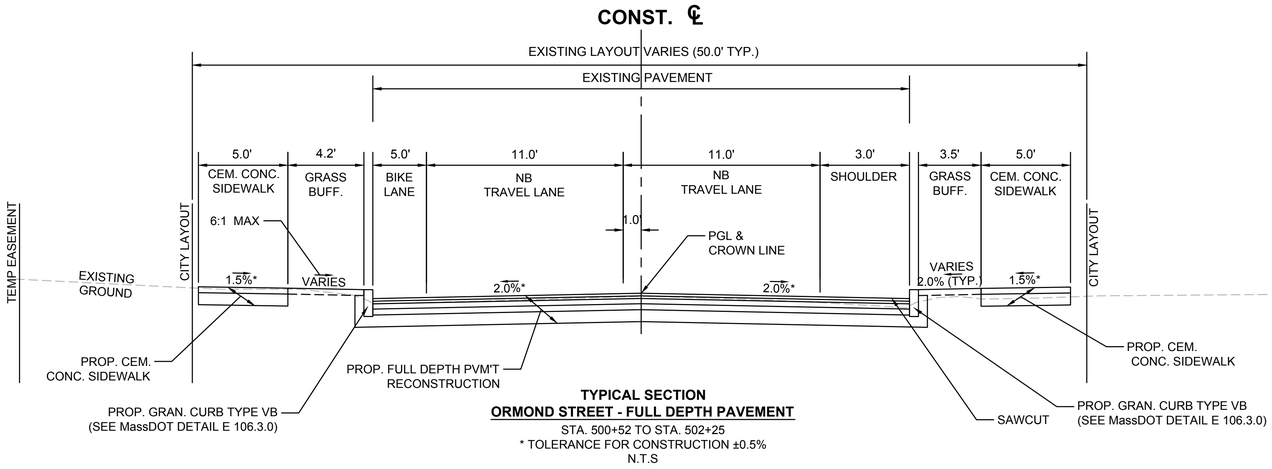
TYPICAL SECTIONS - ORMOND STREET

20121457A70_TYP01.DWG Plotted on 2-Apr-2018 3:22 PM

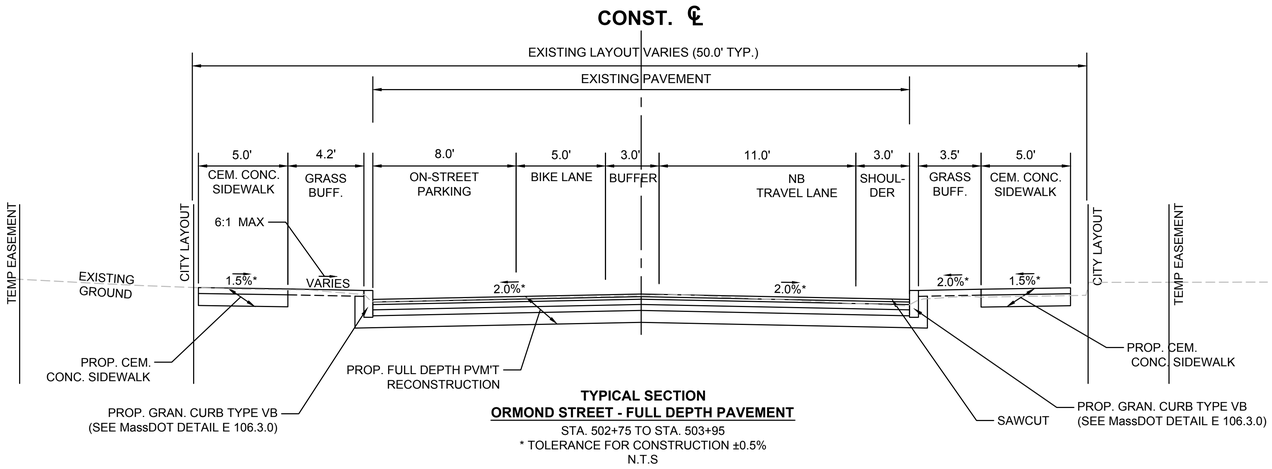
ORMOND PAVEMENT NOTES

PROPOSED FULL DEPTH CONSTRUCTION

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 9.5 OVER
INTERMEDIATE: 1-3/4" SUPERPAVE INTERMEDIATE COURSE - 12.5 OVER
BASE: 3-1/2" SUPERPAVE BASE COURSE - 37.5 OVER
SUBBASE: 4" DENSE GRADED CRUSHED STONE, OVER
8" GRAVEL BORROW, TYPE b.



TYPICAL SECTION
ORMOND STREET - FULL DEPTH PAVEMENT
STA. 500+52 TO STA. 502+25
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



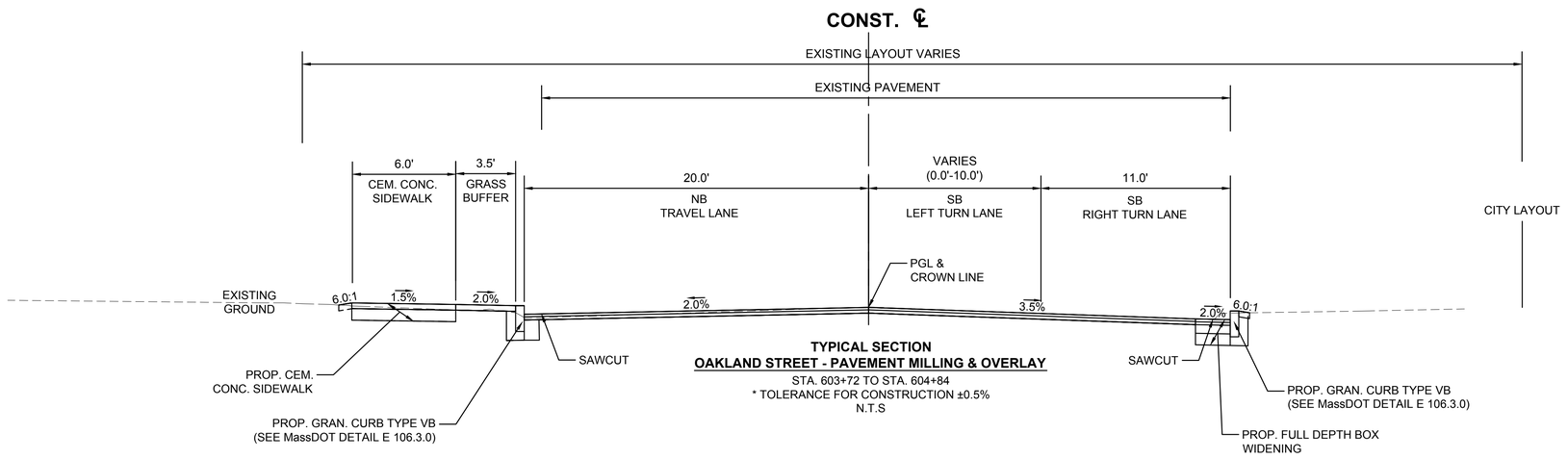
TYPICAL SECTION
ORMOND STREET - FULL DEPTH PAVEMENT
STA. 502+75 TO STA. 503+95
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	15	XXX
PROJECT FILE NO.	608717		

TYPICAL SECTIONS - OAKLAND & CLIFTWOOD STREETS

20121457A70_TYP01.DWG Plotted on 2-Apr-2018 3:22 PM



TYPICAL SECTION
OAKLAND STREET - PAVEMENT MILLING & OVERLAY
STA. 603+72 TO STA. 604+84
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

OAKLAND & CLIFTWOOD STREET PAVEMENT NOTES

OAKLAND - PROPOSED PAVEMENT MICROMILLING AND OVERLAY

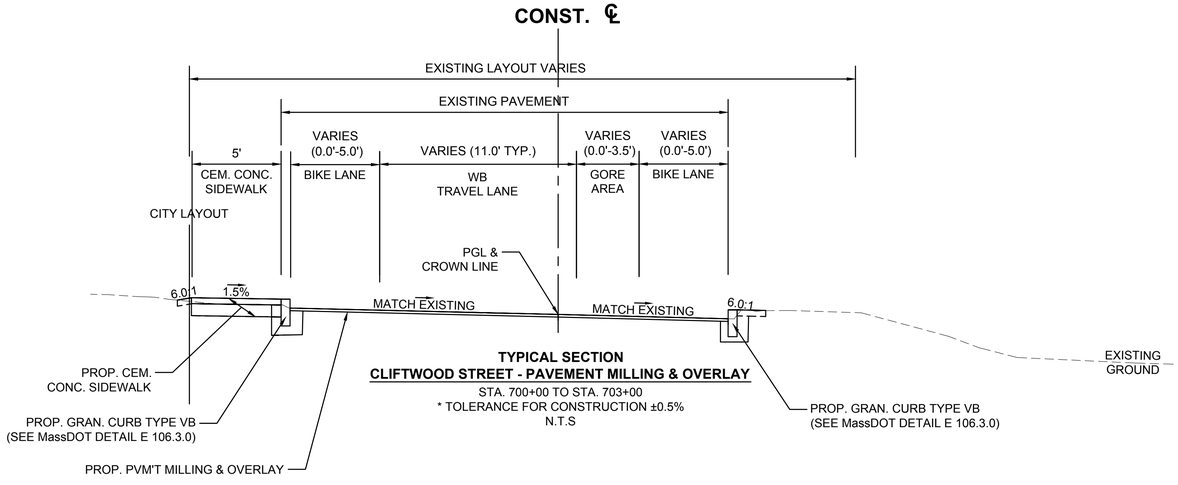
MILLING: 3" PAVEMENT MICROMILLING
SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 9.5
2-1/4" SUPERPAVE INTERMEDIATE COURSE - 12.5

CLIFTWOOD - PROPOSED PAVEMENT MICROMILLING AND OVERLAY

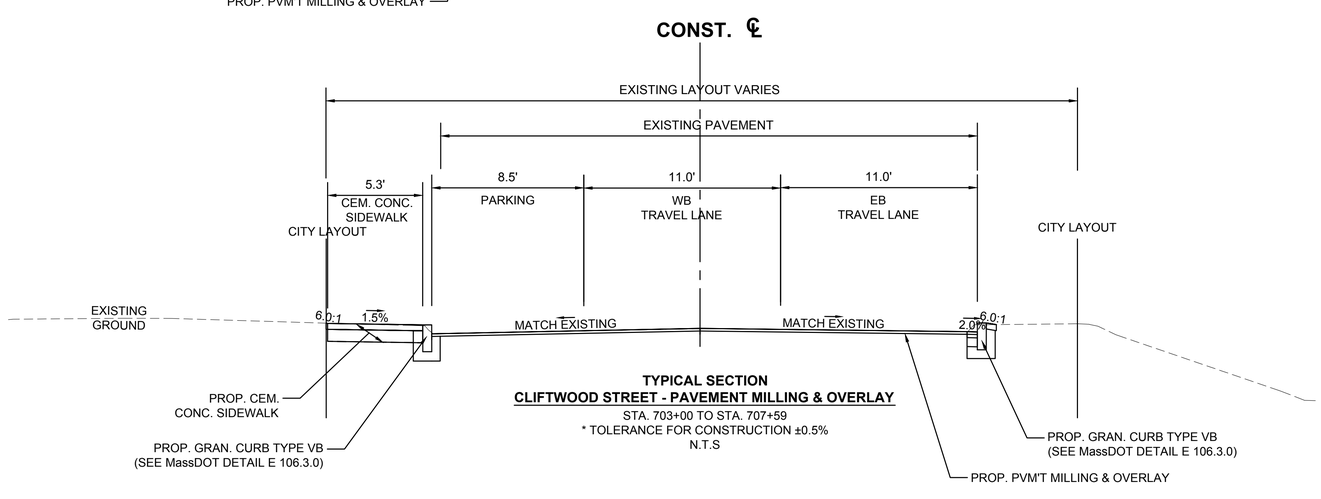
MILLING: 1-3/4" PAVEMENT MICROMILLING
SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 9.5

PROPOSED FULL DEPTH CONSTRUCTION (LESS THAN 4.0' WIDE)

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 9.5 OVER
INTERMEDIATE: 2-1/4" SUPERPAVE INTERMEDIATE COURSE - 12.5 OVER
BASE: 6" HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE - 4000psi, 610, 3/4" OVER
SUBBASE: 8" GRAVEL BORROW, TYPE b.



TYPICAL SECTION
CLIFTWOOD STREET - PAVEMENT MILLING & OVERLAY
STA. 700+00 TO STA. 703+00
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
CLIFTWOOD STREET - PAVEMENT MILLING & OVERLAY
STA. 703+00 TO STA. 707+59
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET XX

DRAINAGE DETAILS

SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED INDIVIDUAL TREE PROTECTION

NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	16	XXX
PROJECT FILE NO.		608717	

CONSTRUCTION PLANS

N

NAD 83

CHURCHILL STREET (PUBLIC)

CHURCHILL STREET

BEGINNING OF PROJECT
STA. 1+41.24
N 2857665.2032
E 366818.4113

APPROX. SLOPE LIMIT
BEGIN PROP. GRAN. CURB
PROP. LOAM & SEED
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. GRAN. CURB CORNER TYPE A (TYP.)
PROP. TEMP. EASEMENT (TYP.)
SAWCUT PVM'T
PROP. CEM. CONC. SIDEWALK
PROP. STAMPED & COLORED CONC. MEDIAN
PROP. FULL DEPTH PVM'T

LIMIT OF PVM'T MILLING & OVERLAY
SAWCUT PVM'T

END PROP. GRAN. CURB
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. TREE (TYP.) (SEE PLANTING PLANS)
PROP. CEM. CONC. WHEELCHAIR RAMP
R&R BUS SHELTER
R&S TRASH RECEPTACLE

SUMNER TERRACE (PUBLIC)

BEGIN PROP. GRAN. CURB
PROP. CEM. CONC. WHEELCHAIR RAMP

SUMNER AVENUE (ROUTE 83) (PUBLIC)

0+00 N 76° 05' 59" E 3550.00'

CONSTRUCTION ℄

PROP. FULL DEPTH PVM'T (LESS THAN 4.0' WIDE)

PROP. PVM'T MILLING & OVERLAY

SAWCUT PVM'T

PROP. FULL DEPTH PVM'T

PROP. LOAM & SEED

PROP. CEM. CONC. WHEELCHAIR RAMP

END PROP. GRAN. CURB

SAWCUT PVM'T

PROP. INDIVIDUAL TREE PROTECTION (TYP.)

PROP. CEM. CONC. SIDEWALK

BEGIN PROP. GRAN. CURB

LIMIT OF PVM'T MILLING & OVERLAY
SAWCUT PVM'T
STA 1+41.24

MAIN GREETING ROAD (PUBLIC)

PROP. CEM. CONC. SIDEWALK

PROP. CEM. CONC. WHEELCHAIR RAMP

BEGIN PROP. GRAN. CURB

PROP. GRAN. CURB

PROP. LOAM & SEED

APPROX. SLOPE LIMIT

LIMIT OF PVM'T MILLING & OVERLAY
SAWCUT PVM'T

CONTINUED ON SHEET NO. XXX

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100

SCALE: 1" = 20'

File Path: J:\DWG\P20121457\A70\Civil\Plan\20121457A70_HPN01.dwg Layout: HPN 01 Plotted: Mon, May 14, 2018 - 8:10 AM User: jdeskavich
MS VIEW: - LAYER STATE: - Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
20121457A70_HPN01.DWG Plotted on 14-May-2018 8:10 AM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE SHEET XX

WATER SUPPLY ALTERATIONS

SEE SHEET XX

DRAINAGE DETAILS

SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED INDIVIDUAL TREE PROTECTION

NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	17	XXX
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS

PROP. CEM. CONC. SIDEWALK
PROP. TREE (TYP.) (SEE PLANTING PLANS)
PROP. HMA DRIVEWAY
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. TEMP. EASEMENT
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
PROP. LOAM & SEED
PROP. INDIVIDUAL TREE PROTECTION (TYP.)
APPROX. SLOPE LIMIT
PROP. PVM'T MILLING & OVERLAY
END PROP. CONC. SIDEWALK MATCH EXISTING
END PROP. GRAN. CURB
BEGIN PROP. GRAN. CURB
PROP. PVM'T MILLING & OVERLAY
PROP. CEM. CONC. WHEELCHAIR RAMP
PROP. FULL DEPTH PVM'T
PROP. FULL DEPTH PVM'T (LESS THAN 4.0' WIDE)
SAWCUT PVM'T
PROP. 5' HT. ALUMINUM FENCE
R&S CHAIN LINK FENCE
PROP. CEM. CONC. WHEELCHAIR RAMP
PROP. FULL DEPTH PVM'T
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTI
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. MAST ARM FOUNDATION (SEE SIGNAL PLANS)
PROP. LOAM & SEED
PROP. CEM. CONC. WHEELCHAIR RAMP
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
PROP. GRAN. CURB CORNER TYPE A (TYP.)
PROP. RAISED GRAN. PLANTER
PROP. CEM. CONC. WHEELCHAIR RAMP
PROP. SLOPED GRAN. EDGING
PROP. ROUND STONE VENEER PILLAR (SEE DETAILS)
PROP. STAMPED & COLORED CONCRETE MEDIAN (SEE DETAILS)
PROP. MOUNTABLE GRAN. CURB
PROP. PAVERS TYPE A (SEE LANDSCAPE PLANS)
PROP. GRAN. CURB
PROP. CEM. CONC. SIDEWALK

SUMNER TERRACE (PUBLIC) — A 1909 CITY LAYOUT, 80.00' WIDE, FILE 338 G
LITCHFIELD STREET (PUBLIC)
OAKLAND STREET (PUBLIC) — A 1909 CITY LAYOUT, 80.00' WIDE, FILE 338 G
SUMNER AVENUE (ROUTE 83) (PUBLIC)
SUMNE

CONSTRUCTION ℄
N 76° 05' 59" E 3550.00'

S 13° 54' 01" E 539.50'
605+39.50
604
605
SAWCUT PVM'T
STA 8+77.40 ALIGN_SUMNER
STA 605+39.50 ALIGN_OAKLAND
N 2857842.0558 E 367533.0166

PC 111.17
S 13° 54' 01" E 11.17'
L=27.98' R=20.00'
Δ=80° 09' 09"
PT +39.15
801
PC +98.39
802
PT +00.08

BENCHMARK: PUNCH MARK BOLT ON HYDRANT EL=187.76

CONTINUED ON SHEET NO. XXX
CONTINUED ON SHEET NO. XXX
CONTINUED ON SHEET NO. XXX

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100
SCALE: 1" = 20'

N
NAD 83

Map ID: 112840022 #11 SUMNER ALICIA LOCKWOOD BOOK 20853 PAGE 107
Map ID: 112800075 #330 SUMNER TM PROPERTIES INC BOOK 17001 PAGE 404
Map ID: 112800074 #320 SUMNER NANCY BRENS BOOK 21886 PAGE 477
Map ID: 055200029 #46 OAKLAND CITY OF SPRINGFIELD FOREST PARK MIDDLE SCHOOL BOOK 19628 PAGE 567
Map ID: 092100161 #117-19 OAKLAND ST MARY'S LOVE CHURCH BOOK 17100 PAGE 404
Map ID: 112800082 #362 SUMNER MARTA GONZALEZ BOOK 21691 PAGE 0073
Map ID: 112800083 #372 SUMNER TIWARI BHANU BOOK 20446 PAGE 598
Map ID: 112800460 #299 SUMNER CITY OF SPRINGFIELD FOREST PARK

File Path: J:\DWG\P20121457A70\Civil\Plan\20121457A70_HPN01.dwg Layout: HPN 02 Plotted: Mon, May 14, 2018 - 8:10 AM User: jdeskavich
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LAYER STATE: -
MS VIEW: -

20121457A70_HPN01.DWG Plotted on 14-May-2018 8:10 AM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET XX

DRAINAGE DETAILS

SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED INDIVIDUAL TREE PROTECTION

NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	18	XXX
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS

PROP. INDIVIDUAL TREE PROTECTION (TYP.)
PROP. TEMP. EASEMENT FOR CONSTRUCTION (TYP.)
PROP. HMA DRIVEWAY
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
PROP. LOAM & SEED
PROP. CEM. CONC. WHEELCHAIR RAMP
END PROP. GRAN. CURB
LIMIT OF PVM'T MILLING & OVERLAY SAWCUT PVM'T
BEGIN PROP. GRAN. CURB
PROP. CEM. CONC. WHEELCHAIR RAMP
PROP. FULL DEPTH PVM'T
APPROX. SLOPE LIMIT
PROP. CEM. CONC. SIDEWALK
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. GRAN. CURB CORNER TYPE A (TYP.)
PROP. TREE (TYP.) (SEE PLANTING PLANS)
PROP. TEMP. EASEMENT
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. LOAM & SEED
PROP. FULL DEPTH PVM'T (LESS THAN 4.0' WIDE)
PROP. PVM'T MILLING & OVERLAY
SAWCUT PVM'T
PROP. FULL DEPTH PVM'T (LESS THAN 4.0' WIDE)
PROP. FULL DEPTH PVM'T
PROP. STAMPED & COLORED CONCRETE MEDIAN (SEE DETAILS)
RET. CONC. SIDEWALK
PROP. GRAN. CURB
PROP. PAVERS TYPE A (SEE LANDSCAPE DETAILS)
PROP. MOUNTABLE GRAN. CURB
PROP. FULL DEPTH PVM'T
PROP. STAMPED & COLORED CONCRETE MEDIAN (SEE DETAILS)
PROP. CEM. CONC. WHEELCHAIR RAMP
END PROP. GRAN. CURB
LIMIT OF PVM'T MILLING & OVERLAY SAWCUT PVM'T
BEGIN PROP. GRAN. CURB
PROP. CEM. CONC. WHEELCHAIR RAMP

SUMNER AVENUE (ROUTE 83)
(PUBLIC)
CONSTRUCTION ℄
N 76° 05' 59" E 3550.00'

KENWOOD TERRACE
(PUBLIC)
A 1909 CITY LAYOUT
50.00' WIDE
FILE 338

BEAUMONT STREET
(PUBLIC)
A 1909 CITY LAYOUT
50.00' WIDE
FILE 338 H

CONTINENTAL STREET
(PUBLIC)
A 1907 CITY LAYOUT
50.00' WIDE
FILE 225

SUMNER AVENUE
A CITY LAYOUT
100.00' WIDE

Map ID: 092100161
#17-19 OAKLAND
CALVARY'S LOVE CHURCH
BOOK 17100 PAGE 404

Map ID: 112800082
#366 SUMNER
MARIA E. GONZALEZ
BOOK 10597 PAGE 0073

Map ID: 112800083
#372 SUMNER
TIWARI BHANU
BOOK 20446 PAGE 508

Map ID: 112800084
#376-378 SUMNER
HECTOR R. RODRIGUEZ
BOOK 20166 PAGE 534

Map ID: 112800085
#390 SUMNER
ANDREW W. VIVENZIO
BOOK 12956 PAGE 0094

Map ID: 112800086
#398 SUMNER
DAO VU
BOOK 15728 PAGE 0316

Map ID: 112800087
#402 SUMNER
ROSEMARY PEREZ
BOOK 12061 PAGE 0330

Map ID: 112800088
#408 SUMNER
[illegible] C. BEAULIEU
BOOK [illegible] PAGE [illegible]

Map ID: 112800434
#361 SUMNER
TRINITY METHODIST EPISCOPAL CHURCH
BOOK 19030 PAGE 5

Map ID: 112800426
#407 SUMNER
KARL A. HAYWOOD &
KATIE L HOGAN
BOOK 16608 PAGE 0457

Map ID: 112800425
#415 SUMNER
JOSE L. ESTEVEZ
BOOK 16331 PAGE 0161

CONTINUED ON SHEET NO. XXX

CONTINUED ON SHEET NO. XXX

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100

SCALE: 1" = 20'

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LAYER STATE: -
MS VIEW: -

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HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET XX

DRAINAGE DETAILS

SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED INDIVIDUAL TREE PROTECTION

NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	19	XXX
PROJECT FILE NO.		608717	

CONSTRUCTION PLANS

LIMIT OF PVM'T MILLING & OVERLAY SAWCUT PVM'T
END PROP. GRAN. CURB
PROP. CEM. CONC. WHEELCHAIR RAMP
PROP. FULL DEPTH PVM'T
BEGIN PROP. GRAN. CURB
PROP. CEM. CONC. WHEELCHAIR RAMP
PROP. PAVERS TYPE A (SEE STREETSCAPE PLANS)
SAWCUT PVM'T
PROP. TREE (TYP.) (SEE PLANTING PLANS)
PROP. CEM. CONC. SIDEWALK
PROP. FULL DEPTH PVM'T
PROP. TEMP. EASEMENT
PROP. HMA DRIVEWAY
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
R&R CHAIN LINK FENCE
PROP. LOAM & SEED
PROP. HMA DRIVEWAY
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
APPROX. SLOPE LIMIT
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. LOAM & SEED
CONTINUED ON SHEET NO. XXX
BEAUMONT STREET (PUBLIC)
A 1909 CITY LAYOUT 50.00' WIDE FILE 338 H
CITY LAYOUT
Map ID: 112800088 #408 SUMNER GERALD S. BEAULIEU BOOK 10939 PAGE 02887
Map ID: 112800087 #402 SUMNER ROSEMARY PEREZ BOOK 15061 PAGE 0330
Map ID: 112800089 #420 SUMNER PARKRIDGE PROPERTIES LLC BOOK 17660 PAGE 288
Map ID: 112800090 #426 SUMNER AGATHA WORRELL BOOK 08281 PAGE 0517
Map ID: 112800091 #432 SUMNER NICHOLAS G. GHANAME BOOK 20627 PAGE 482
Map ID: 112800092 #440 SUMNER (2) SUMNER LLC BOOK 20291 PAGE 164
Map ID: 112800095 #444 SUMNER PERSAM COMMONFIELD LLC BOOK 15500 PAGE 242
Map ID: 012350105 S S BELMONT CARRIAGE FUNERAL HOLDINGS, INC. BOOK 16856 BOOK 0412
NAD 83
N
CONSTRUCTION ℄ N 76° 05' 59" E 3550.00'
SUMNER AVENUE (ROUTE 83) (PUBLIC)
A CITY LAYOUT 100.00' WIDE
PROP. MOUNTABLE GRAN. CURB
PROP. FULL DEPTH PVM'T (LESS THAN 4.0' WIDE)
PROP. STAMPED & COLORED CONCRETE MEDIAN (SEE DETAILS)
PROP. PVM'T MILLING & OVERLAY
PROP. RAISED GRAN. PLANTER
SAWCUT PVM'T
PROP. FULL DEPTH PVM'T (LESS THAN 4.0' WIDE)
CONTINENTAL STREET (PUBLIC)
A 1907 CITY LAYOUT 50.00' WIDE FILE 225
CONTINUED ON SHEET NO. XXX
APPROX. SLOPE LIMIT
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
PROP. HMA DRIVEWAY
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. WHEELCHAIR RAMP
END PROP. GRAN. CURB
PROP. GRAN. CURB CORNER TYPE A (TYP.)
PROP. GATEWAY ARCH (SEE STREETSCAPE PLANS)
PROP. FULL DEPTH PVM'T
PROP. CEM. CONC. SIDEWALK
PROP. GRAN. CURB
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. RAIN GARDEN (SEE DETAILS)
PROP. CEM. CONC. WHEELCHAIR RAMP
BEGIN PROP. GRAN. CURB
LIMIT OF PVM'T MILLING & OVERLAY SAWCUT PVM'T
PROP. BENCH (TYP. - SEE STREETSCAPE PLANS)
PROP. TREEBOX FILTER (TYP. - SEE PLANTING PLANS & DETAILS)
PROP. FULL DEPTH PVM'T
PROP. PAVERS TYPE C (SEE STREETSCAPE PLANS)
PROP. CEM. CONC. SIDEWALK
PROP. CEM. CONC. PAVERS TYPE B (SEE STREETSCAPE PLANS)
PROP. BIKE RACK (TYP. - SEE STREETSCAPE PLANS)
PARKWOOD STREET (PUBLIC)
A 1902 CITY LAYOUT 50.00' WIDE FILE 107
CLIFTWOOD STREET (PUBLIC)
A 1904 CITY LAYOUT VARIABLE WIDTH FILE 243 C
FOR PROFILE: SEE SHEET NO. XX
SCALE: 1" = 20'

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HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE SHEET XX

WATER SUPPLY ALTERATIONS

SEE SHEET XX

DRAINAGE DETAILS

SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED INDIVIDUAL TREE PROTECTION

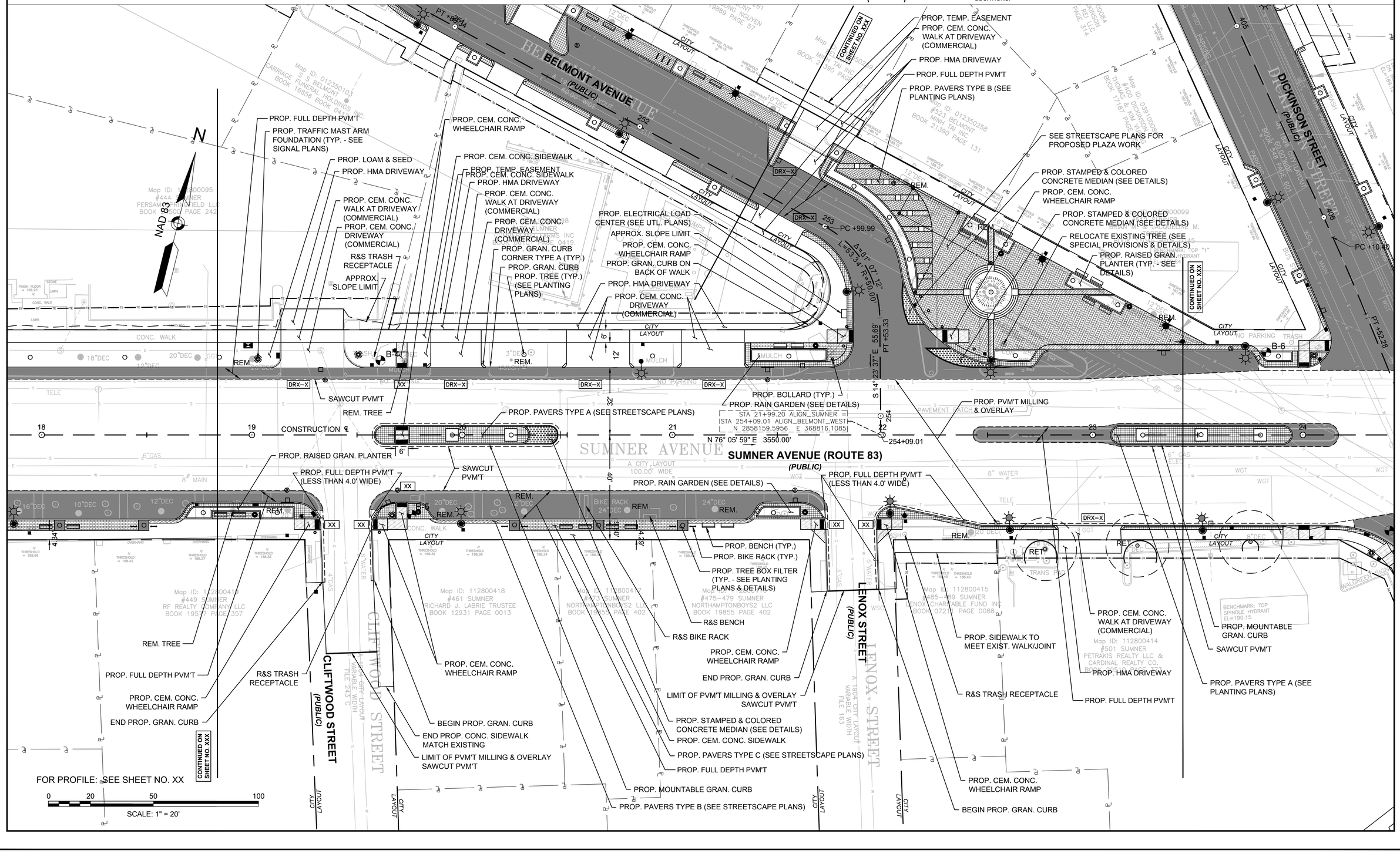
NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	20	XXX
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS



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20121457A70_HPN01.DWG Plotted on 14-May-2018 8:11 AM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE SHEET XX

WATER SUPPLY ALTERATIONS

SEE SHEET XX

DRAINAGE DETAILS

SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED INDIVIDUAL TREE PROTECTION

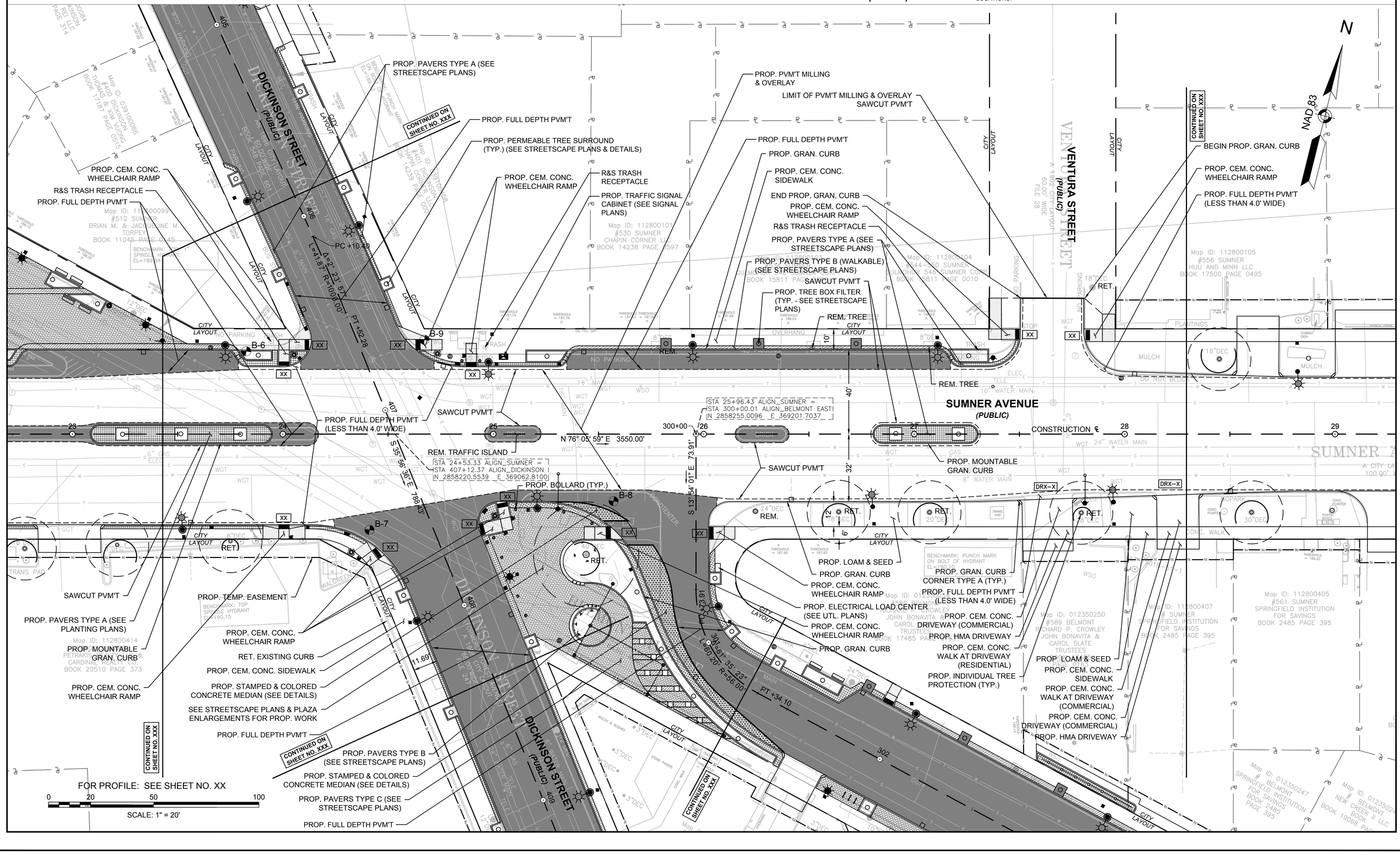
NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	21	XXX
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS



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HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	NONE	SEE SHEET XX	SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED INDIVIDUAL TREE PROTECTION

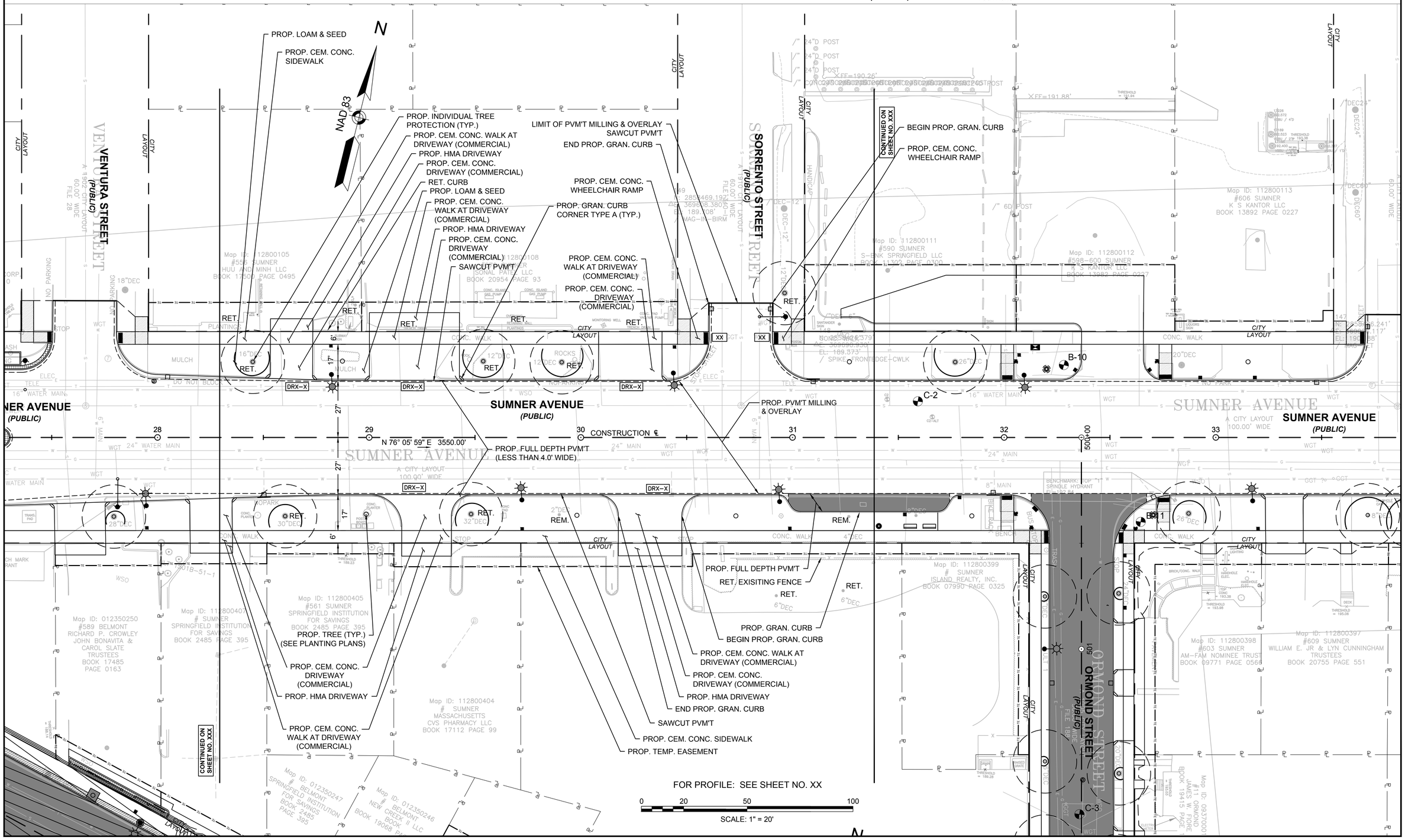
NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	22	XXX
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS



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MS VIEW: - LAYER STATE: - Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
20121457A70_HPN01.DWG Plotted on 14-May-2018 8:11 AM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE SHEET XX

WATER SUPPLY ALTERATIONS

SEE SHEET XX

DRAINAGE DETAILS

SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED INDIVIDUAL TREE PROTECTION

NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	23	XXX
	PROJECT FILE NO.	608717	

CONSTRUCTION PLANS

PROP. LOAM & SEED IN RAISED ISLANDS
PROP. LOAM & SEED
PROP. INDIVIDUAL TREE PROTECTION (TYP.)
PROP. CEM. CONC. WHEELCHAIR RAMP
PROP. CEM. CONC. SIDEWALK
PROP. TRAFFIC SIGNAL EQUIPMENT (SEE SIGNAL PLANS)
PROP. HMA CURB TYPE II
LIMIT OF PVM'T MILLING & OVERLAY SAWCUT PVM'T
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. WHEELCHAIR RAMP
PROP. CEM. CONC. WHEELCHAIR RAMP
PROP. GRAN. CURB
PROP. TREE (TYP.) (SEE PLANTING PLANS)
END OF PROJECT STA. 34+72.66
N 2858465.5218
E 370052.2725
PROP. CEM. CONC. WHEELCHAIR RAMP
PROP. FULL DEPTH PVM'T (LESS THAN 4.0' WIDE)
PROP. TEMP. EASEMENT
PROP. LOAM & SEED
END PROP. CEM. CONC. SIDEWALK MATCH EXISTING
SORRENTO STREET (PUBLIC)
POMONA STREET (PUBLIC)
SUMNER AVENUE (PUBLIC)
ORMOND STREET (PUBLIC)
DAYTONA STREET (PUBLIC)
CITY LAYOUT
N
NAD 83
STA 32+36.51 ALIGN_SUMNER = STA 500+00.10 ALIGN_ORMOND N 2858408.6926 E 369823.0576
CONSTRUCTION ℄
N 76° 05' 59" E 3550.00'
S 13° 55' 09" E 53.65'
SAWCUT PVM'T
PROP. TRASH RECEPTACLE (SEE STREETSCAPE PLANS)
PROP. BENCH (TYP. - SEE STREETSCAPE PLANS)
PROP. PVM'T MILLING & OVERLAY
LIMIT OF PVM'T MILLING & OVERLAY SAWCUT PVM'T STA 34+72.66
CONTINUED ON SHEET NO. XXX
R&S BIKE RACK
R&S BENCH
PROP. CEM. CONC. WHEELCHAIR RAMP
R&S TRASH RECEPTACLE
PROP. LOAM & SEED
PROP. FULL DEPTH PVM'T
PROP. CEM. CONC. SIDEWALK
RET. FENCE & EXIST. PLANTINGS
APPROX. SLOPE LIMIT
PROP. GRAN. CURB
PROP. GRAN. CURB CORNER TYPE A (TYP.)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. WHEELCHAIR RAMP
PROP. LOAM & SEED
PROP. CEM. CONC. SIDEWALK
PROP. LOAM & SEED
END PROP. CEM. CONC. SIDEWALK MATCH EXISTING
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
PROP. LOAM & SEED
PROP. TEMP. EASEMENT
FOR PROFILE: SEE SHEET NO. XX
SCALE: 1" = 20'

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Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB

20121457A70_HPN01.DWG Plotted on 14-May-2018 8:11 AM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET XX

DRAINAGE DETAILS

SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED INDIVIDUAL TREE PROTECTION

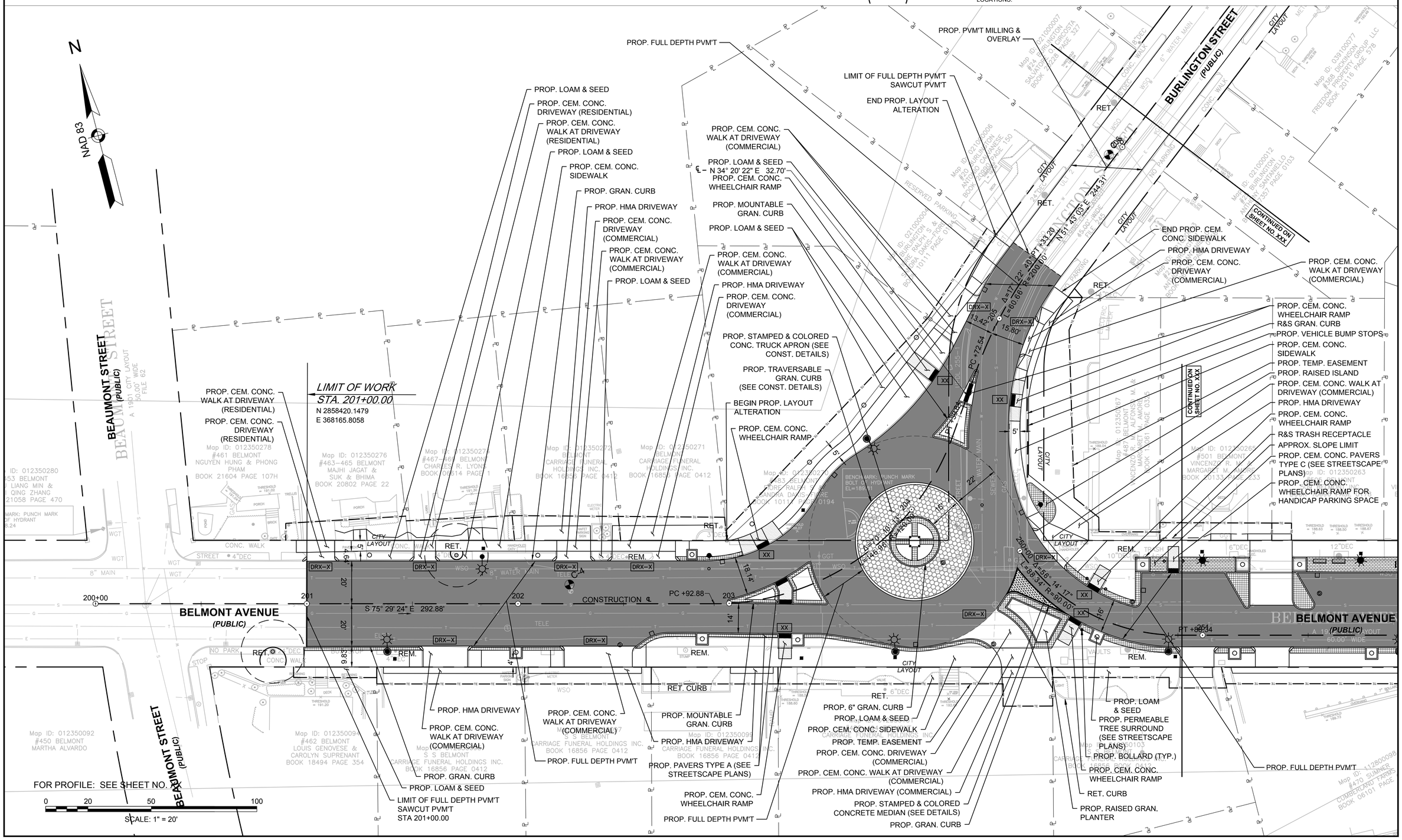
NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	24	XXX
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS



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20121457A70_HPN01.DWG Plotted on 14-May-2018 8:12 AM

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	NONE	SEE SHEET XX	SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED INDIVIDUAL TREE PROTECTION

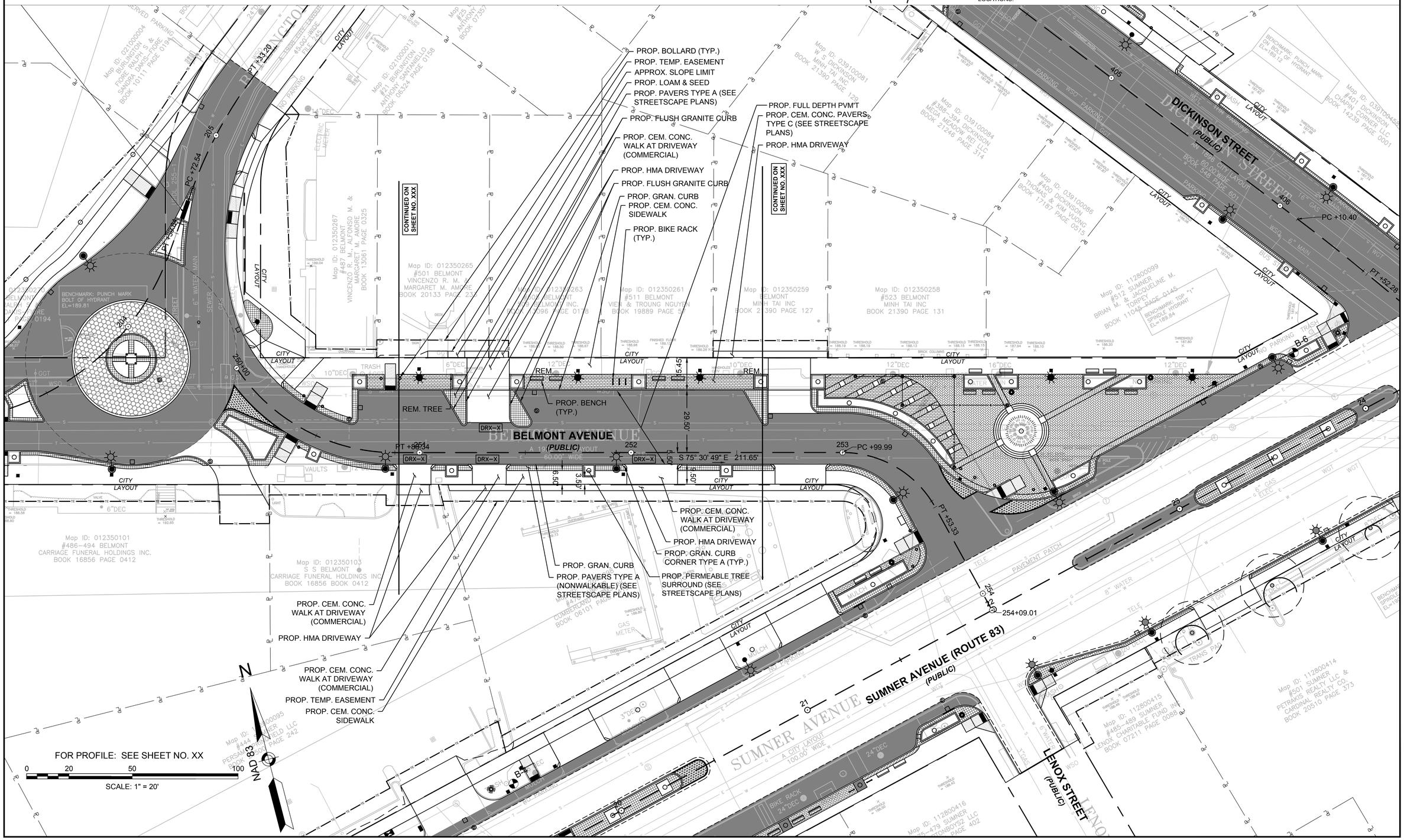
NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	25	XXX
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS



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20121457A70_HPN01.DWG Plotted on 14-May-2018 8:12 AM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET XX

DRAINAGE DETAILS

SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED INDIVIDUAL TREE PROTECTION

NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	26	XXX
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS

SUMNER AVENUE (PUBLIC)

BELMONT AVENUE (ROUTE 83) (PUBLIC)

DICKINSON STREET (PUBLIC)

TRENTON STREET (PUBLIC)

COMMONWEALTH AVENUE (PUBLIC)

CONSTRUCTION ℄

PT +34.10

S 75° 29' 24" E 798.26'

L=60.20' R=56.00'

Δ=61° 35' 23"

PC +75.94

300+00

FOR PROFILE: SEE SHEET NO. XX

SCALE: 1" = 20'

CONTINUED ON SHEET NO. XXX

CONTINUED ON SHEET NO. XXX

PROP. RAIN GARDEN (TYP.) (SEE DETAILS)
PROP. 3' HT. ALUMINUM FENCE
PROP. PAVERS TYPE B (WALKABLE - SEE STREETSCAPE PLANS)
RET. EXISTING WALK
PROP. FULL DEPTH PVM'T
PROP. TREE BOX FILTER (TYP. - SEE STREETSCAPE PLANS)
PROP. CEM. CONC. WHEELCHAIR RAMP FOR HANDICAP PARKING SPACE
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
PROP. GRAN. CURB
BEGIN PROP. CITY LAYOUT ALTERATION
PROP. CEM. CONC. WHEELCHAIR RAMP
PROP. GRAN. CURB
PROP. HMA DRIVEWAY
PROP. 3' HT. ALUMINUM FENCE
PROP. FULL DEPTH PVM'T
PROP. STAMPED & COLORED CONC. TRUCK APRON (SEE CONST. DETAILS)
PROP. GRAN. BOUND
PROP. CEM. CONC. SIDEWALK
PROP. TEMP. EASEMENT
PROP. LOAM & SEED
PROP. PAVERS TYPE A (SEE STREETSCAPE PLANS)
PROP. MOUNTABLE GRAN. CURB
PROP. FULL DEPTH PVM'T
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
END PROP. CITY LAYOUT ALTERATION
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
PROP. LOAM & SEED
PROP. CEM. CONC. WHEELCHAIR RAMP
PROP. LOAM & SEED
PROP. BENCH (TYP.)
PROP. CEM. CONC. SIDEWALK
PROP. BIKE RACK (TYP.)
PROP. PAVERS TYPE C (SEE STREETSCAPE PLANS)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
PROP. GRAN. CURB ISLAND
PROP. STAMPED & COLORED CONCRETE MEDIAN (SEE DETAILS)
PROP. GRAN. CURB CORNER TYPE A (TYP.)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
PROP. TRAVERSABLE GRAN. CURB (SEE CONST. DETAILS)
PROP. TEMP. EASEMENT
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
R&S BOLLARDS
PROP. GRAN. CURB
PROP. STAMPED & COLORED CONCRETE MEDIAN (SEE DETAILS)
PROP. LOAM & SEED
PROP. MOUNTABLE GRAN. CURB
PROP. CEM. CONC. WHEELCHAIR RAMP
PROP. LOAM & SEED
END PROP. CEM. CONC. SIDEWALK MATCH EXISTING
PROP. LOAM & SEED
PROP. CEM. CONC. WHEELCHAIR RAMP
R&R BOLLARDS
PROP. LOAM & SEED
PROP. PERM. EASEMENT
PROP. CEM. CONC. WHEELCHAIR RAMP
PROP. LOAM & SEED
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
LIMIT OF FULL DEPTH PVM'T SAWCUT PVM'T
PROP. FULL DEPTH PVM'T
END PROP. GRAN. CURB

Map ID: 112800405 #561 SUMNER SPRINGFIELD INSTITUTION FOR SAVINGS BOOK 2485 PAGE 395
Map ID: 112800407 # SUMNER SPRINGFIELD INSTITUTION FOR SAVINGS BOOK 2485 PAGE 395
Map ID: 012350250 #589 BELMONT RICHARD P. CROWLEY JOHN BONAVITA & CAROL SLATE TRUSTEES BOOK 20153 PAGE 453
Map ID: 012350248 # BELMONT NEW CREEK II LLC BOOK BOOK 19068 PAGE 209
Map ID: 012350247 # BELMONT SPRINGFIELD INSTITUTION FOR SAVINGS BOOK 2485 PAGE 395
Map ID: 012350245 # BELMONT NEW CREEK II LLC BOOK 19068 PAGE 209
Map ID: 012350108 #568 BELMONT SALMAR REALTY LLC BOOK 20154 PAGE 429
Map ID: 012350107 #582-586 BELMONT LIANG MIN & CUI QING BOOK 20153 PAGE 479
Map ID: 012350110 #590 BELMONT LIANG MIN & CUI QING
Map ID: 012350111 #624 BELMONT CHRISTOPHER DMD & P DONOHUE BOOK 05880 PAGE 03
Map ID: 039100094 W.S. DICKINSON SPRINGFIELD PARKING AUTHORITY BOOK 7792 PAGE 520
Map ID: 012350112 #615 BELMONT NEW CREEK II LLC BOOK 19068 PAGE 209
Map ID: 012350113 #616 BELMONT NEW CREEK II LLC BOOK 19068 PAGE 209
Map ID: 012350114 #610 BELMONT KATHLEEN BOOK 07[illegible] PAGE 407
Map ID: 030950002 COMMONWEALTH VARANITIS
Map ID: 030950003 #[illegible] COMMONWEALTH HATH & BINH NGUYEN BOOK [illegible] PAGE 192
Map ID: 016400004 #459 PICK

NAD 83

20121457A70_HPN01.DWG Plotted on 14-May-2018 8:12 AM

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Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
MS VIEW: -
LAYER STATE: -

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET XX

DRAINAGE DETAILS

SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED INDIVIDUAL TREE PROTECTION

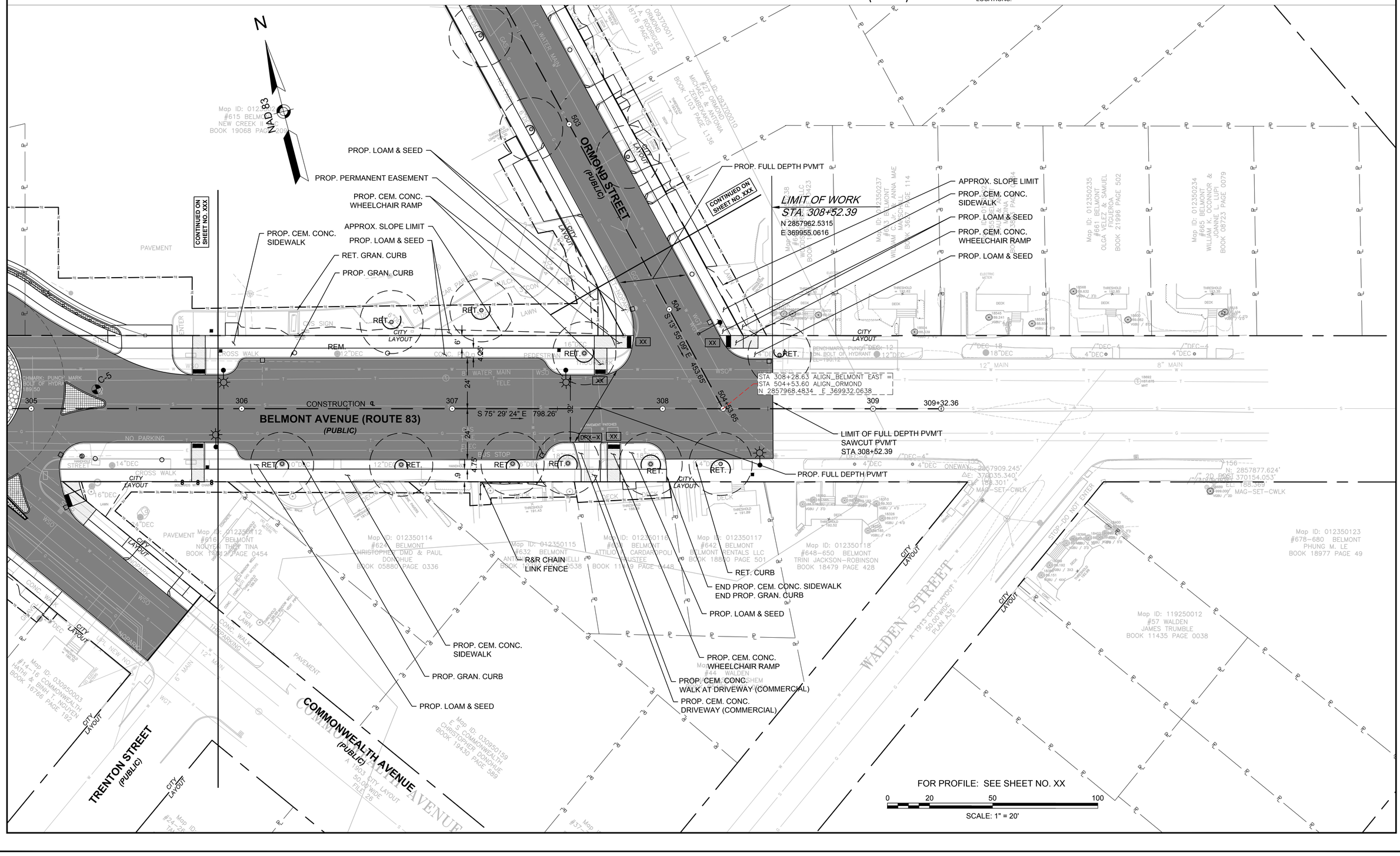
NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	27	XXX
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS



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20121457A70_HPN01.DWG Plotted on 14-May-2018 8:12 AM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET XX

DRAINAGE DETAILS

SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED INDIVIDUAL TREE PROTECTION

NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	28	XXX
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS

N

NAD 83

LIMIT OF WORK
STA. 401+06.43
N 2858697.3479
E 368688.9831

RECIPROCAL RAMP COMPLIANCE TO BE CONFIRMED AT 75% DESIGN

LIMIT OF PVM'T MILLING & OVERLAY
SAWCUT PVM'T

RECIPROCAL RAMP COMPLIANCE TO BE CONFIRMED AT 75% DESIGN

PROP. PAVERS TYPE A (SEE STREETSCAPE PLANS)

LIMIT OF FULL DEPTH PVM'T SAWCUT PVM'T

PROP. PVM'T MILLING & OVERLAY

BEGIN PROP. GRAN. CURB
PROP. CEM. CONC. WHEELCHAIR RAMP
R&R IRON CHAIN LINK FENCE
R&S METAL FENCE
PROP. LOAM & SEED
PROP. GRAN. CURB
PROP. CEM. CONC. SIDEWALK
PROP. LOAM & SEED

PROP. TEMP. EASEMENT
PROP. HMA DRIVEWAY
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. LOAM & SEED
PROP. HMA DRIVEWAY
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. LOAM & SEED
PROP. HMA DRIVEWAY
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. RAISED GRAN. ISLAND
R&S BOLLARD

PROP. FULL DEPTH PVM'T
PROP. PAVERS TYPE A (SEE STREETSCAPE PLANS)
PROP. LOAM & SEED
PROP. TREE (TYP. - SEE STREETSCAPE PLANS)
R&S BOLLARD
PROP. HMA DRIVEWAY
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
R&S BOLLARD
PROP. LOAM & SEED
PROP. 5' HT. ALUMINUM FENCE
R&S BOLLARD
R&S TRASH RECEPTACLE
PROP. RAISED GRAN. ISLAND
R&S BOLLARD

PROP. HMA DRIVEWAY
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. PAVERS TYPE A (SEE STREETSCAPE PLANS)

CONTINUED ON SHEET NO. XXX

PROP. PERMEABLE TREE SURROUND (SEE STREETSCAPE PLANS)

PROP. PAVERS TYPE C (SEE STREETSCAPE PLANS)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
PROP. GRAN. CURB CORNER TYPE A (TYP.)
PROP. RAIN GARDEN (TYP. - SEE DETAILS)
PROP. GRAN. CURB
APPROX. SLOPE LIMIT
PROP. LOAM & SEED
PROP. CEM. CONC. WHEELCHAIR RAMP
BEGIN PROP. GRAN. CURB

PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
PROP. TEMP. EASEMENT
PROP. CEM. CONC. SIDEWALK

CONTINUED ON SHEET NO. XXX

GRENADA TERRACE (PUBLIC)

DICKINSON STREET (PUBLIC)

BURLINGTON STREET (PUBLIC)

STA 401+58.89 ALIGN_DICKINSON =
STA 207+77.47 ALIGN_BELMONT–BURLINGTON
N 2858656.7026 E 368722.1439

PC +80.47 401
Δ=3° 47' 21" PT +46.60
L=66.13' R=1000.00'
S 42° 07' 54" E 80.47'

402 403 404 405 406

CONSTRUCTION ℄

S 38° 20' 33" E 463.80'

PC +10.40
PT +52.28

207+77.50

N 51° 43' 03" E 244.31'

207

PT +33.20

353 PC +99.99 PT +53.33

254 254+09.01

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100
SCALE: 1" = 20'

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20121457A70_HPN01.DWG Plotted on 14-May-2018 8:12 AM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET XX

DRAINAGE DETAILS

SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED INDIVIDUAL TREE PROTECTION

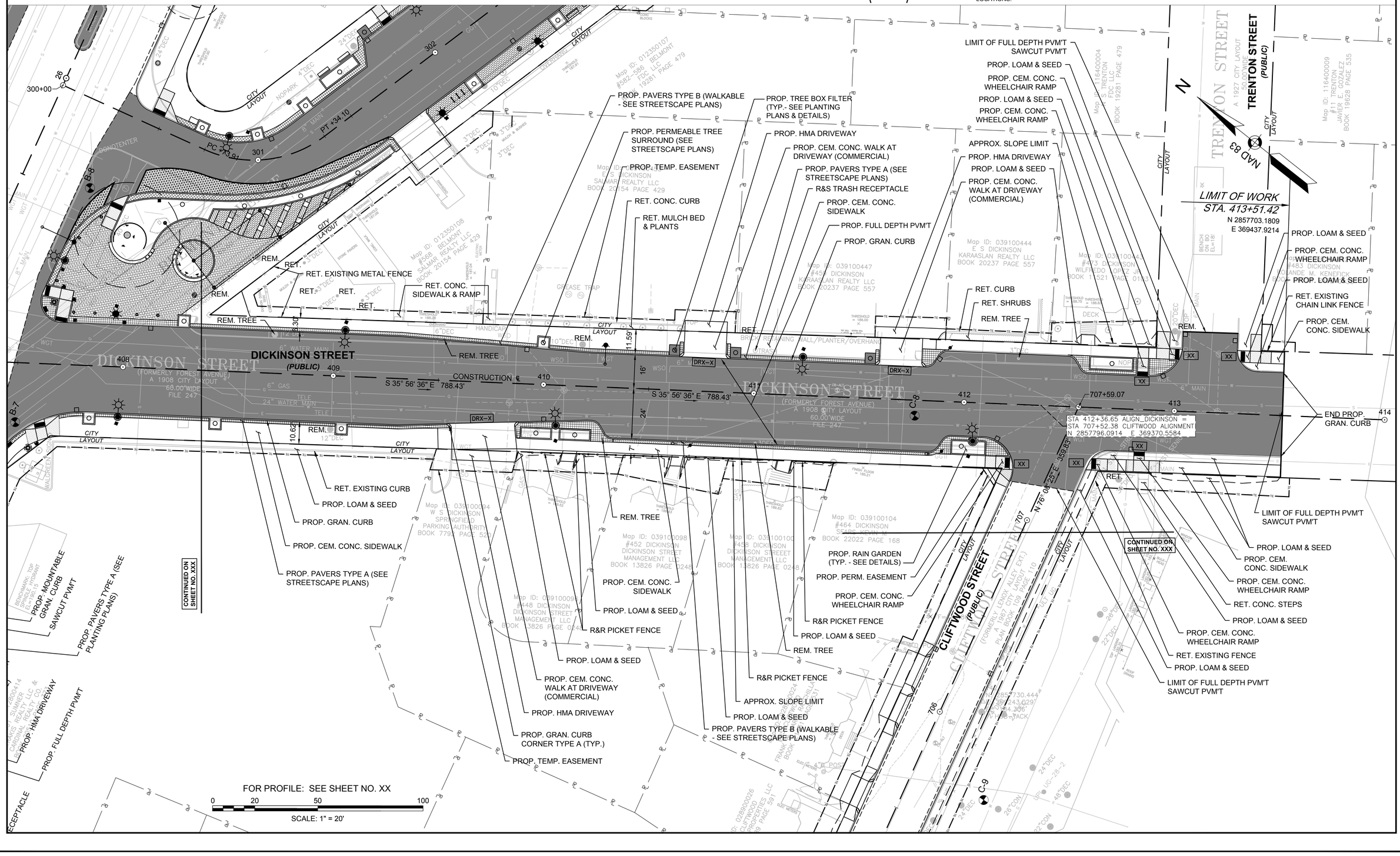
NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	29	XXX
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS


DICKINSON STREET
(PUBLIC)
(FORMERLY FOREST AVENUE)
A 1908 CITY LAYOUT
60.00' WIDE
FILE 247
TRENTON STREET
(PUBLIC)
A 1927 CITY LAYOUT
50.00' WIDE
CLIFTWOOD STREET
(PUBLIC)
(FORMERLY LENOX ALLEY EXT.)
A 1967 CITY LAYOUT
PLAN BOOK 109 PAGE 110
CONSTRUCTION ℄
S 35° 56' 36" E 788.43'
LIMIT OF WORK
STA. 413+51.42
N 2857703.1809
E 369437.9214
STA 412+36.65 ALIGN_DICKINSON =
STA 707+52.38 CLIFTWOOD ALIGNMENT
N 2857796.0914 E 369370.5584
N 76° 08' 25" E 359.83'
707+59.07
300+00
PC 43.91
PT +34.10
CONTINUED ON SHEET NO. XXX
CONTINUED ON SHEET NO. XXX
FOR PROFILE: SEE SHEET NO. XX
SCALE: 1" = 20'
0 20 50 100
REM.
RET.
RET. EXISTING METAL FENCE
RET. CONC. SIDEWALK & RAMP
REM. TREE
RET. CONC. CURB
RET. MULCH BED & PLANTS
PROP. PAVERS TYPE B (WALKABLE - SEE STREETSCAPE PLANS)
PROP. PERMEABLE TREE SURROUND (SEE STREETSCAPE PLANS)
PROP. TEMP. EASEMENT
PROP. TREE BOX FILTER (TYP.- SEE PLANTING PLANS & DETAILS)
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. PAVERS TYPE A (SEE STREETSCAPE PLANS)
R&S TRASH RECEPTACLE
PROP. CEM. CONC. SIDEWALK
PROP. FULL DEPTH PVM'T
PROP. GRAN. CURB
LIMIT OF FULL DEPTH PVM'T SAWCUT PVM'T
PROP. LOAM & SEED
PROP. CEM. CONC. WHEELCHAIR RAMP
APPROX. SLOPE LIMIT
RET. CURB
RET. SHRUBS
RET. EXISTING CHAIN LINK FENCE
PROP. CEM. CONC. SIDEWALK
END PROP. GRAN. CURB
RET. EXISTING CURB
PROP. MOUNTABLE GRAN. CURB
SAWCUT PVM'T
PROP. PAVERS TYPE A (SEE PLANTING PLANS)
PROP. HMA DRIVEWAY
PROP. FULL DEPTH PVM'T
PROP. CEM. CONC. SIDEWALK
PROP. GRAN. CURB CORNER TYPE A (TYP.)
PROP. TEMP. EASEMENT
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
R&S PICKET FENCE
PROP. RAIN GARDEN (TYP. - SEE DETAILS)
PROP. PERM. EASEMENT
RET. CONC. STEPS
RET. EXISTING FENCE
Map ID: 039100104 #464 DICKINSON SPARR KEVIN JR BOOK 22022 PAGE 168
Map ID: 039100098 #452 DICKINSON DICKINSON STREEET MANAGEMENT LLC BOOK 13826 PAGE 0248
Map ID: 039100094 W S DICKINSON SPRINGFIELD PARKING AUTHORITY BOOK 7795 PAGE 520
Map ID: 039100447 #459 DICKINSON KARAASLAN REALTY LLC BOOK 20237 PAGE 557
Map ID: 039100444 E S DICKINSON KARAASLAN REALTY LLC BOOK 20237 PAGE 557
Map ID: 039100443 #473 DICKINSON WILFREDO LOPEZ JR BOOK 11521 PAGE 0133
Map ID: 039100009 #11 TRENTON JAVIER E. GOZALEZ BOOK 19628 PAGE 535
Map ID: 116400004 S TRENTON FDC LLC BOOK 19281 PAGE 479
Map ID: 012350107 #582-586 BELMONT FDC LLC 19281 PAGE 479
Map ID: 012350108 #588 BELMONT SALMAR REALTY LLC BOOK 20154 PAGE 429
Map ID: 039100448 E S DICKINSON SALMAR REALTY LLC BOOK 20154 PAGE 429
Map ID: 039100453 #483 DICKINSON ROXANNE M. KENEFICK
Map ID: 039100454 #487 DICKINSON CARDINAL REALTY CO
Map ID: 039100455 #491 DICKINSON CARDINAL REALTY CO
Map ID: 039100456 #495 DICKINSON CARDINAL REALTY CO
Map ID: 039100457 #499 DICKINSON CARDINAL REALTY CO
Map ID: 039100458 #503 DICKINSON CARDINAL REALTY CO
Map ID:

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET XX

DRAINAGE DETAILS

SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED INDIVIDUAL TREE PROTECTION

NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	30	XXX
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS

PROP. HMA DRIVEWAY
PROP. GRAN. CURB
PROP. CEM. CONC. SIDEWALK
APPROX. SLOPE LIMIT
PROP. LOAM & SEED
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. LOAM & SEED
PROP. HMA DRIVEWAY
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. FULL DEPTH PVM'T
APPROX. SLOPE LIMIT
PROP. LOAM & SEED
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. TEMP. EASEMENT
PROP. TREE (TYP.) (SEE PLANTING PLANS)
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY (RESIDENTIAL)
PROP. CEM. CONC. DRIVEWAY (RESIDENTIAL)
PROP. LOAM & SEED
PROP. LOAM & SEED
PROP. HMA DRIVEWAY
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. HMA DRIVEWAY
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. GRAN. CURB CORNER TYPE A (TYP.)
PROP. CEM. CONC. DRIVEWAY (COMMERCIAL)
PROP. CEM. CONC. WALK AT DRIVEWAY (COMMERCIAL)
PROP. TEMP. EASEMENT
PROP. HMA DRIVEWAY
APPROX. SLOPE LIMIT
PROP. LOAM & SEED
PROP. GRAN. CURB
PROP. CEM. CONC. SIDEWALK
PROP. LOAM & SEED
PROP. INDIVIDUAL TREE PROTECTION (TYP.)
R&S BIKE RACK
R&S BENCH
R&S TRASH RECEPTACLE
PROP. LOAM & SEED
RET. FENCE & EXIST. PLANTINGS

LIMIT OF WORK
STA. 308+52.39
N 2857982.5315
E 369955.0616

CONTINUED ON SHEET NO. XX

CONTINUED ON SHEET NO. XX

STA 308+28.63 ALIGN_BELMONT EAST =
STA 504+53.60 ALIGN_ORMOND
N 2857968.4834 E 369932.0638

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100

SCALE: 1" = 20'

N

NAD 83

SUMNER AVENUE (PUBLIC)

ORMOND STREET (PUBLIC)

NT AVENUE (ROUTE 83) (PUBLIC)

STREET (PUBLIC)

STREET

STREET

STREET–NOPARK

CONSTRUCTION ℄
S 13° 55' 09" E 453.65'

Map ID: 093700012
#17 ORMOND
DANIEL J. GIBSON
BOOK 17415 PAGE 240

Map ID: 093700013
#11 ORMOND
JAMES W. FIORE
BOOK 19419 PAGE 164

Map ID: 093700010
#27 ORMOND
MICHAEL & ANTONIA ZEIMBEKAKIS

Map ID: 093700011
#23 ORMOND
ADRIANA A. RODRIGUEZ
BOOK 19718 PAGE 238

Map ID: 112800396
#615 SUMNER
JOSEPHINE EVANS
BOOK 3269 PAGE 302

Map ID: 112800398
#603 SUMNER
WILLIAM E. JR & LYN CUNNINGHAM TRUSTEES
BOOK 20755 PAGE 551

Map ID: 112800399
#591 SUMNER
ISLAND CREEK REALTY
BOOK 07981 PAGE 0001

Map ID: 112800112
#598–600 SUMNER
K. S. KANYOR LLC
BOOK 13892 PAGE 0227

Map ID: 112800111
#596 SUMNER
K. S. KANYOR LLC
BOOK 13892 PAGE 0300

Map ID: 012350116
#638 BELMONT
ATTILIO F. CARDAMONE
BOOK 11419 PAGE 0448

Map ID: 012350117
#642 BELMONT
BELMONT RENTALS LLC
BOOK 18800 PAGE 001

Map ID: 012350115
#634 BELMONT
ANTONIO R. SPROVIERI
BOOK 12759 PAGE 0538

Map ID: 012350114
#626 BELMONT
JEFFREY DAVID & PAUL DOOHOVER
BOOK 03886 PAGE 0336

Map ID: 012350235
#681 BELMONT
OLGA VELEZ & SAMUEL FIGUEROA
BOOK 21936 PAGE

Map ID: 012350234
#653 BELMONT
WILLIAM O. JR & ANNA MASCIOPAUL
BOOK 3627 PAGE 118

Map ID: 012350233
#661 BELMONT
MARK & ANNA
BOOK 13933 PAGE 0264

Map ID: 012350232
#669 BELMONT
MARK & ANNA
BOOK 13933 PAGE 0264

Map ID: 012350231
#677 BELMONT
MARK & ANNA
BOOK 13933 PAGE 0264

Map ID:

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET XX

DRAINAGE DETAILS

SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED INDIVIDUAL TREE PROTECTION

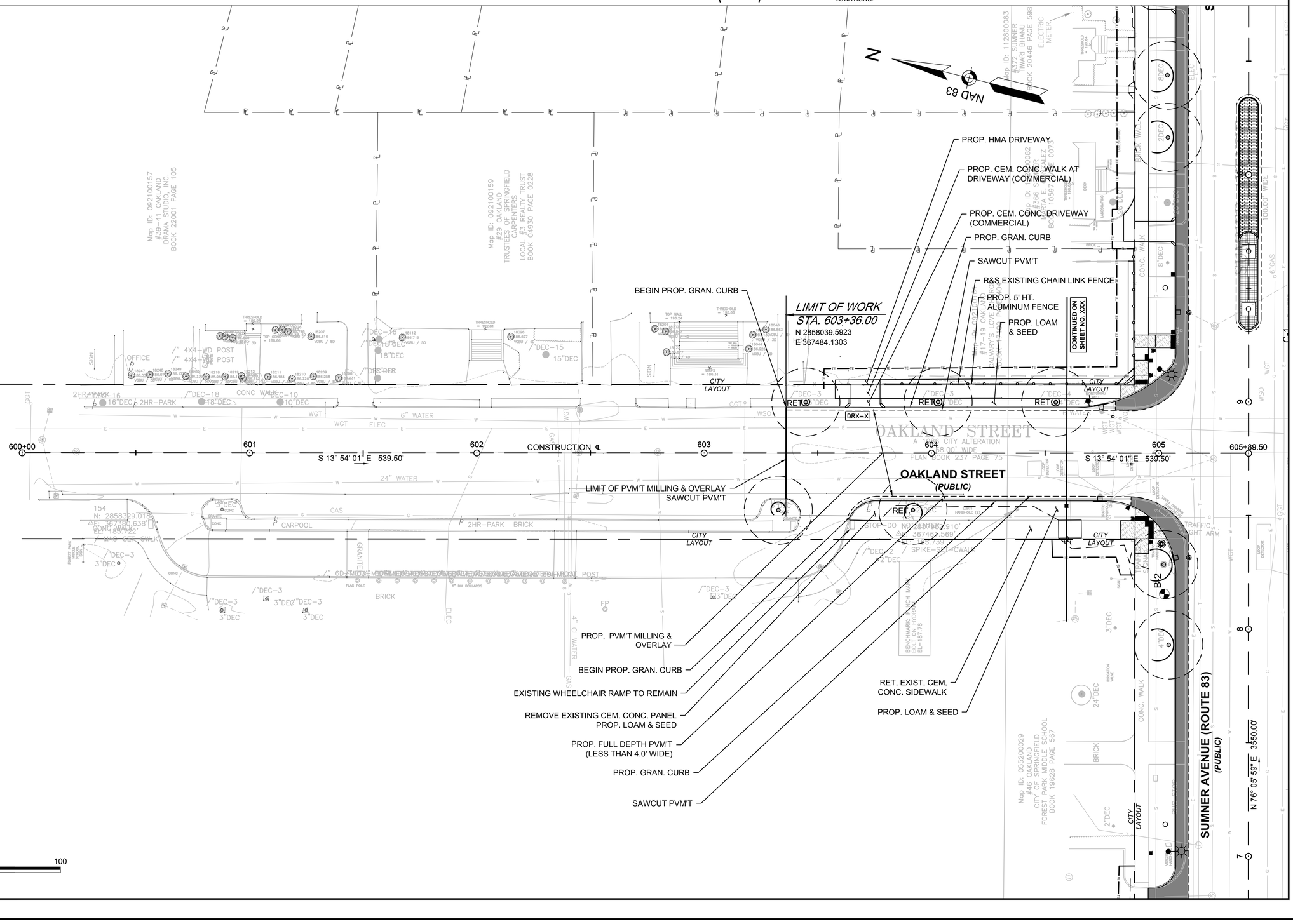
NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	31	XXX
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS



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20121457A70_HPN01.DWG Plotted on 14-May-2018 8:13 AM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET XX

DRAINAGE DETAILS

SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED INDIVIDUAL TREE PROTECTION

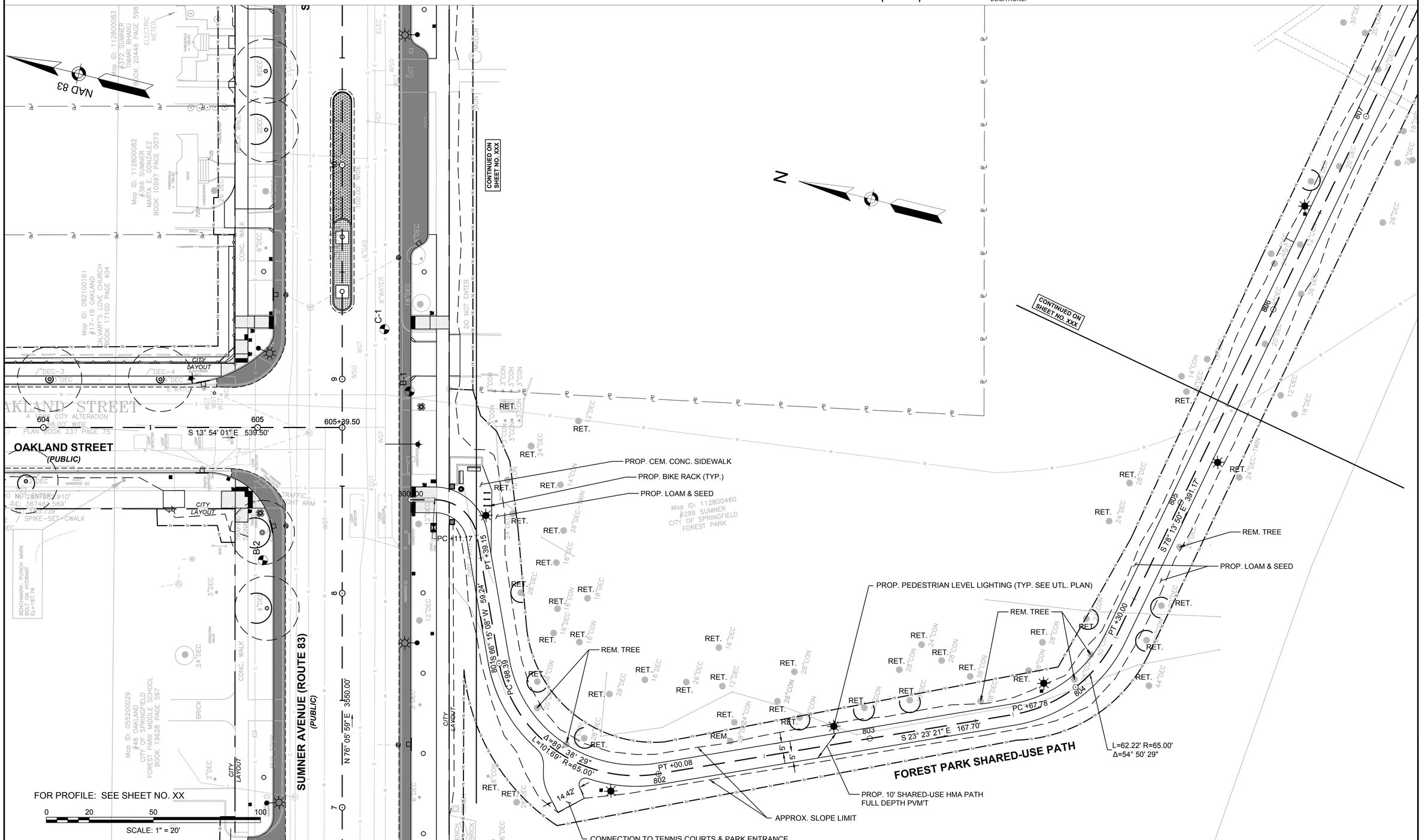
NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	32	XXX
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS



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Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
MS VIEW: - LAYER STATE: -
20121457A70_HPN01.DWG Plotted on 14-May-2018 8:13 AM

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	NONE	SEE SHEET XX	SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED INDIVIDUAL TREE PROTECTION

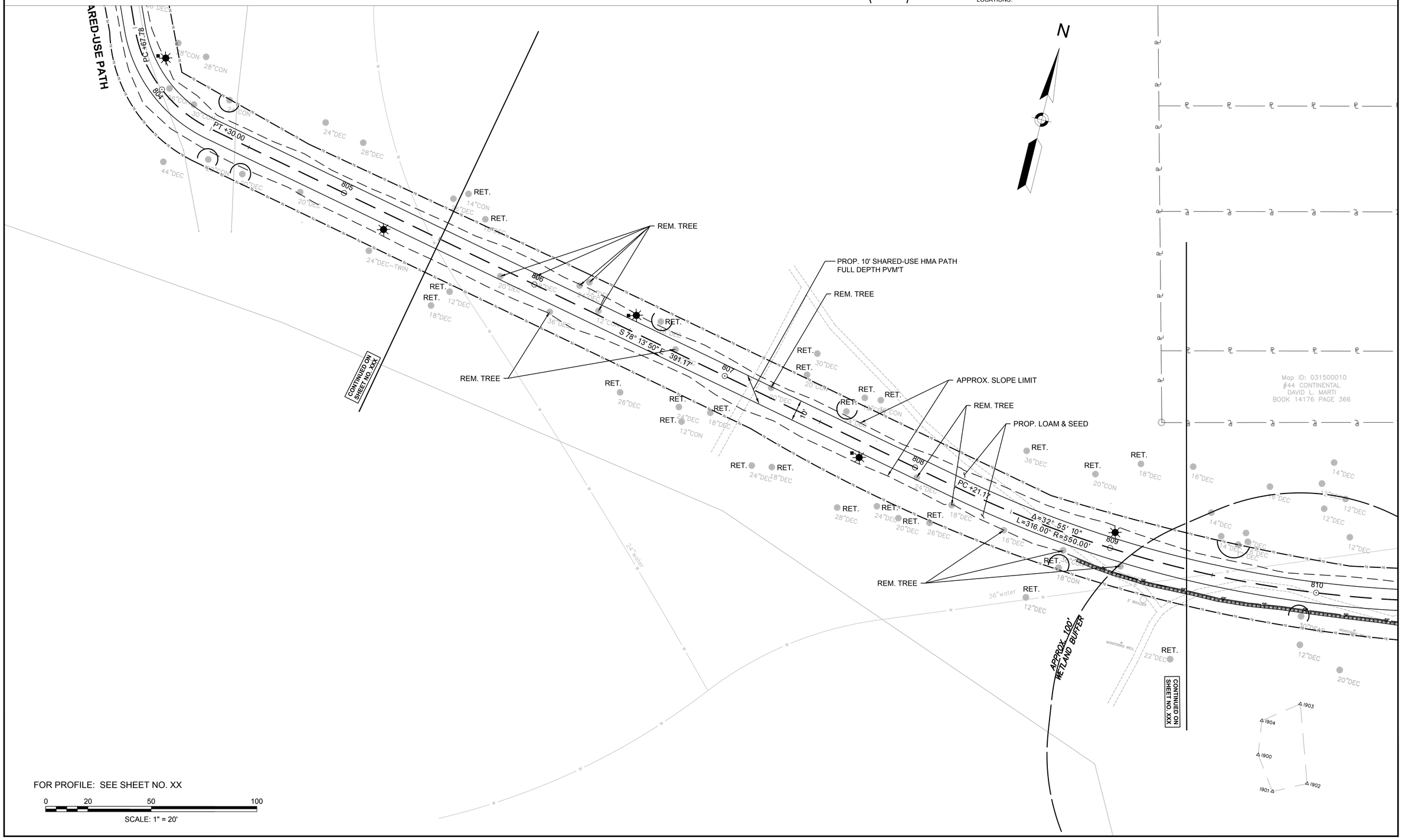
NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	33	XXX
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS



FOR PROFILE: SEE SHEET NO. XX

0 20 50 100

SCALE: 1" = 20'

File Path: J:\DWG\P20121457A70\Civil\Plan\20121457A70_HPN01.dwg Layout: HPN 18 Plotted: Mon, May 14, 2018 - 8:13 AM User: jdeskavich
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
LAYER STATE: -
MS VIEW: -
20121457A70_HPN01.DWG Plotted on 14-May-2018 8:13 AM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET XX

DRAINAGE DETAILS

SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED INDIVIDUAL TREE PROTECTION

NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	34	XXX
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS

N

CONTINENTAL STREET (PUBLIC)

PARKWOOD STREET (PUBLIC)

CITY LAYOUT

PROP. HMA DRIVEWAY

PROP. REMOVABLE BOLLARD (TYP. - SEE CONST. DETAILS)

PROP. RAISED ENTRANCE ISLAND SLOPED GRAN. EDGING

PROP. LANDSCAPE BOULDER (TYP.)

PROP. LOAM & SEED

APPROX. SLOPE LIMIT / LIMIT OF CLEARING

REM. TREE

PROP. 10' SHARED-USE HMA PATH FULL DEPTH PVM'T

APPROX. 100' WETLAND BUFFER

Map ID: 031500010
#44 CONTINENTAL
DAVID L. MARTI
BOOK 14176 PAGE 366

Map ID: 031500011
MAYA J. RIVERA &
BILLY LEBRON
BOOK 20393 PAGE 503

Map ID: 095300009
#42 PARKWOOD
EMERALD CITY RENTALS
BOOK 21404 PAGE 275

Map ID: 095300010
#39 PARKWOOD
ELLEN J. POLLOCK
BOOK 18598 PAGE 148

Map ID: 112800460
#299 SUMNER
CITY OF SPRINGFIELD
FOREST PARK

809 810 811 812 813 814

Δ=32° 55' 10" L=316.00' R=550.00'

PT +37.18

N 68° 51' 00" E 106.62'

PC +43.79

L=38.53' R=100.00' Δ=22° 04' 30"

PT +82.32

N 46° 46' 30" E 47.31'

PC +29.53

Δ=50° 03' 27" L=87.37' R=100.00'

PT +17.00

PC +55.12

PT +80.77

1903 1904 1900 1901 1902

CONTINUED ON SHEET NO. XXX

CONTINUED ON SHEET NO. XXX

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100

SCALE: 1" = 20'

File Path: J:\DWG\P20121457\A70\Civil\Plan\20121457A70_HPN01.dwg Layout: HPN 19 Plotted: Mon, May 14, 2018 - 8:13 AM User: jdeskavich
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
LAYER STATE: -
MS VIEW: -

20121457A70_HPN01.DWG Plotted on 14-May-2018 8:13 AM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET XX

DRAINAGE DETAILS

SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#–#

PROPOSED INDIVIDUAL TREE PROTECTION

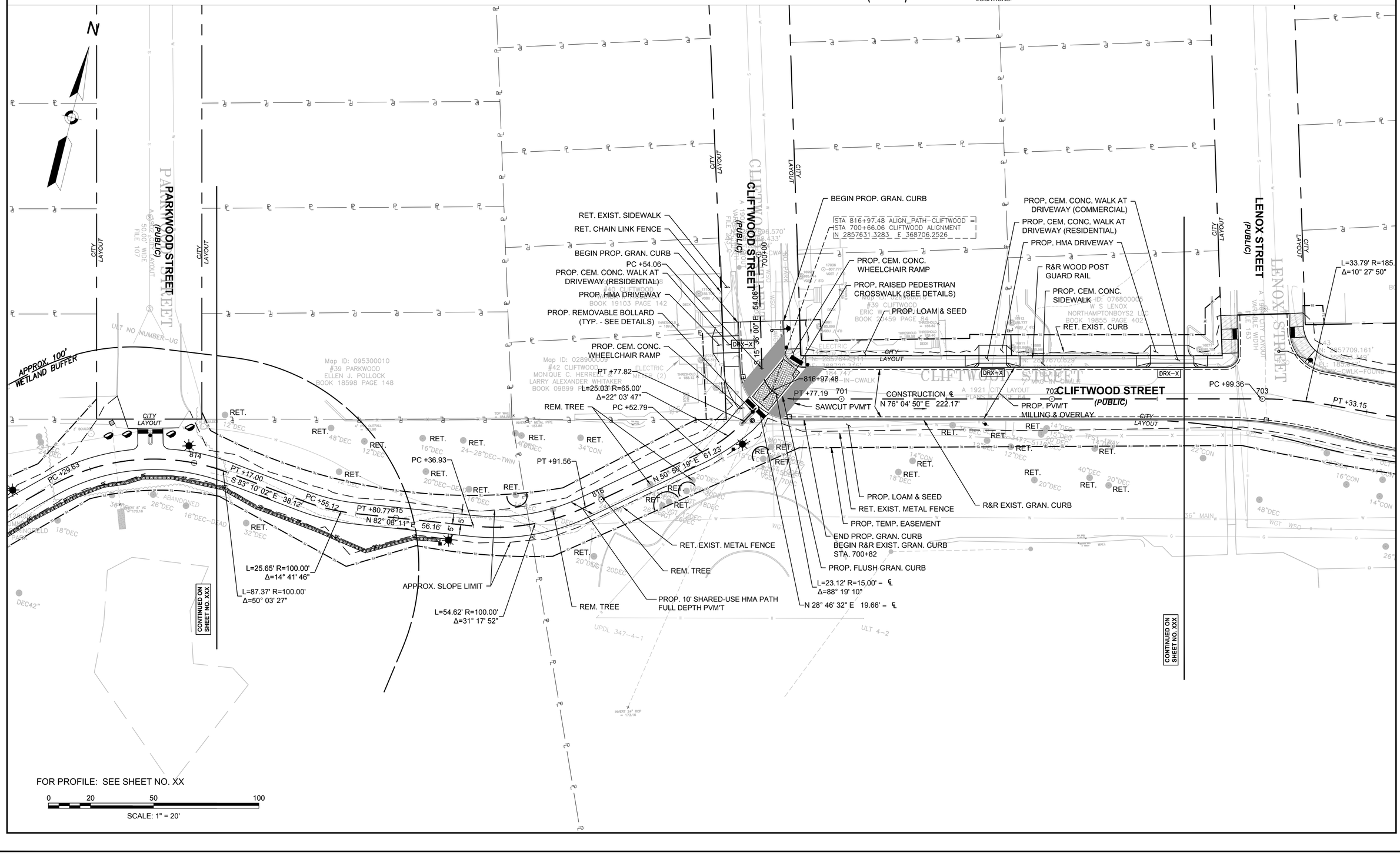
NOTES:

1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	35	XXX
PROJECT FILE NO.		608717	

CONSTRUCTION PLANS



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MS VIEW: - LAYER STATE: -
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
20121457A70_HPN01.DWG Plotted on 14-May-2018 8:13 AM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET XX

DRAINAGE DETAILS

SEE SHEET XX

NOTE: ADDITIONAL LABELS & ANNOTATION SHALL BE PROVIDED AT 75% DESIGN

LEGEND:

PROPOSED WHEELCHAIR RAMP DETAIL # X#

PROPOSED DRIVEWAY DETAIL # DR#-#

PROPOSED INDIVIDUAL TREE PROTECTION

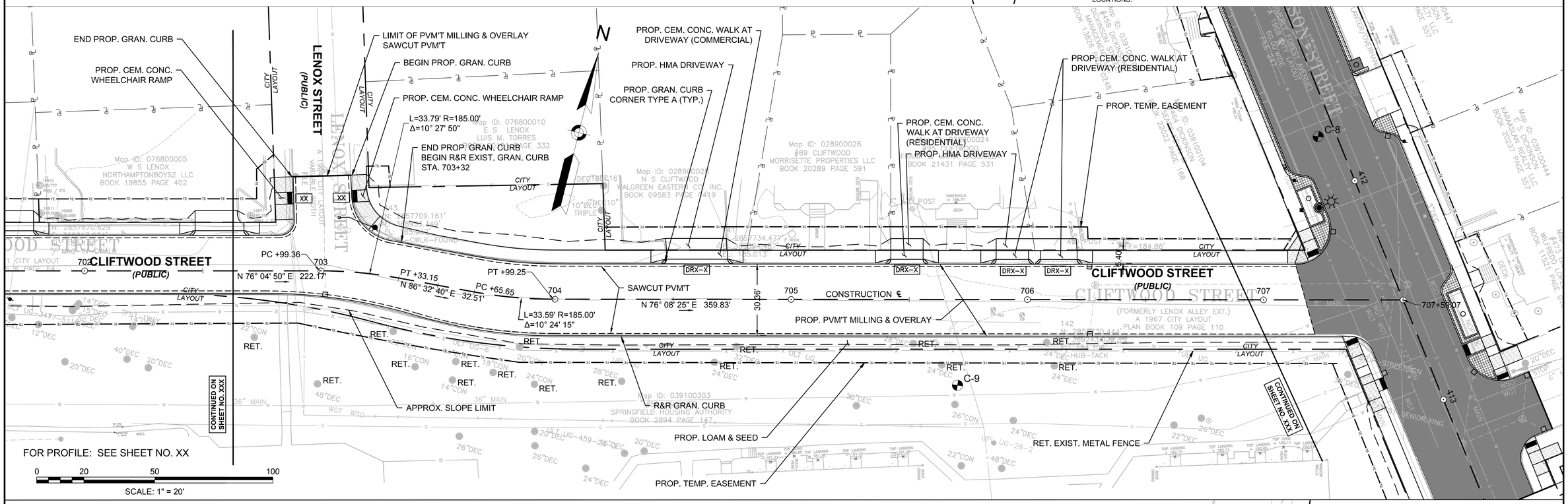
NOTES:

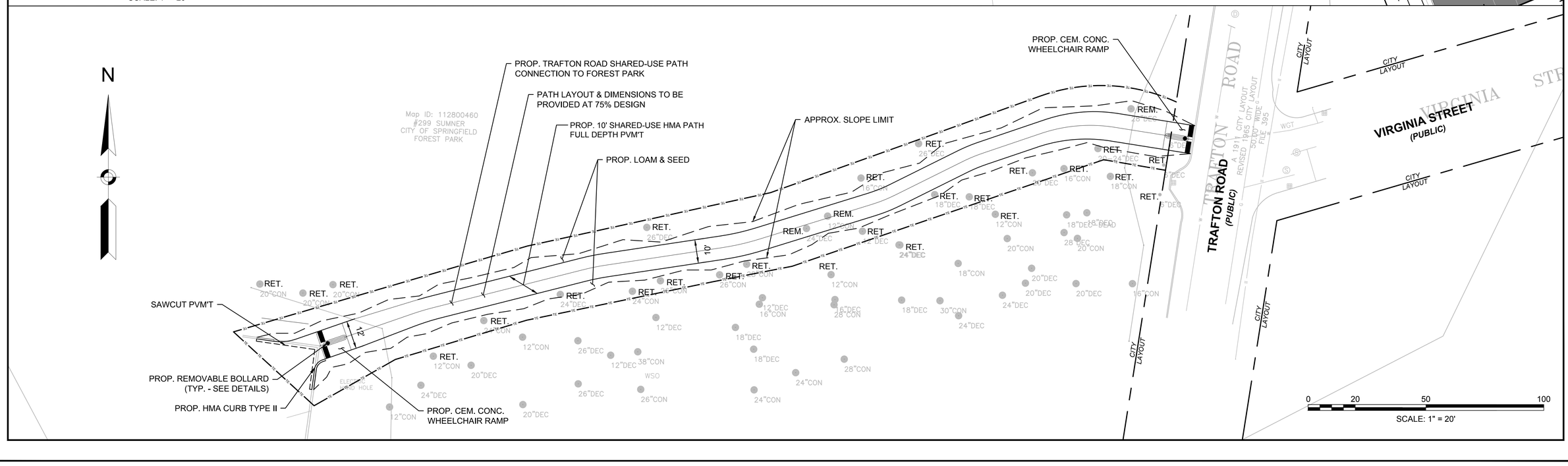
1. ALL EXISTING GRANITE CURB WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNLESS OTHERWISE NOTED ON THE PLAN
2. ALL EXISTING GRANITE CURB CORNERS WITHIN PROJECT LIMITS SHALL BE REMOVED & STACKED UNDER ITEM #592.
3. TYPE "A" PAVERS ARE TO BE USED ONLY IN AREAS NOT INTENDED FOR WALKING OR ADA ACCESSIBLE PATH.
4. SEE STREETSCAPE & PLANTING PLANS FOR PROPOSED TREE LOCATIONS.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	36	XXX
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS





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Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
MS VIEW: -
LAYER STATE: -

20121457A70_HPN01.DWG Plotted on 14-May-2018 8:13 AM

NOTE:

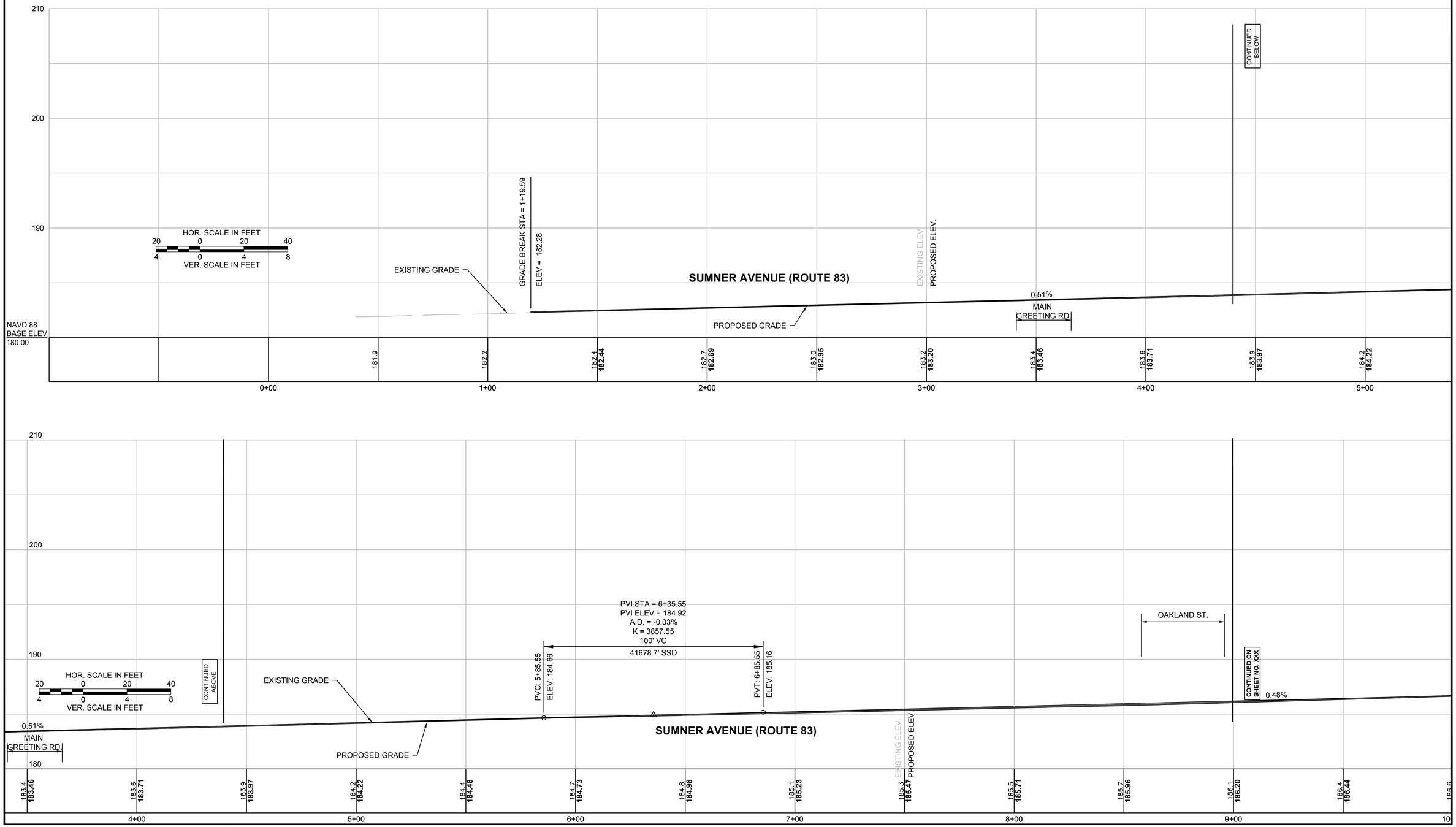
1. SUMNER AVE PROFILE WILL BE ADJUSTED FURTHER AT 75% DESIGN TO REFLECT THE APPROVED PAVEMENT DESIGN / PAVING THICKNESS.
2. CENTER MEDIANS WILL BE SHOWN AT 75% DESIGN.
3. BENCHMARK ELEVATIONS WILL BE ADDED TO 75% DESIGN PROFILE.

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. XX-XX

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	37	XXX
PROJECT FILE NO.	608717		

SUMNER AVE. PROFILE - 01



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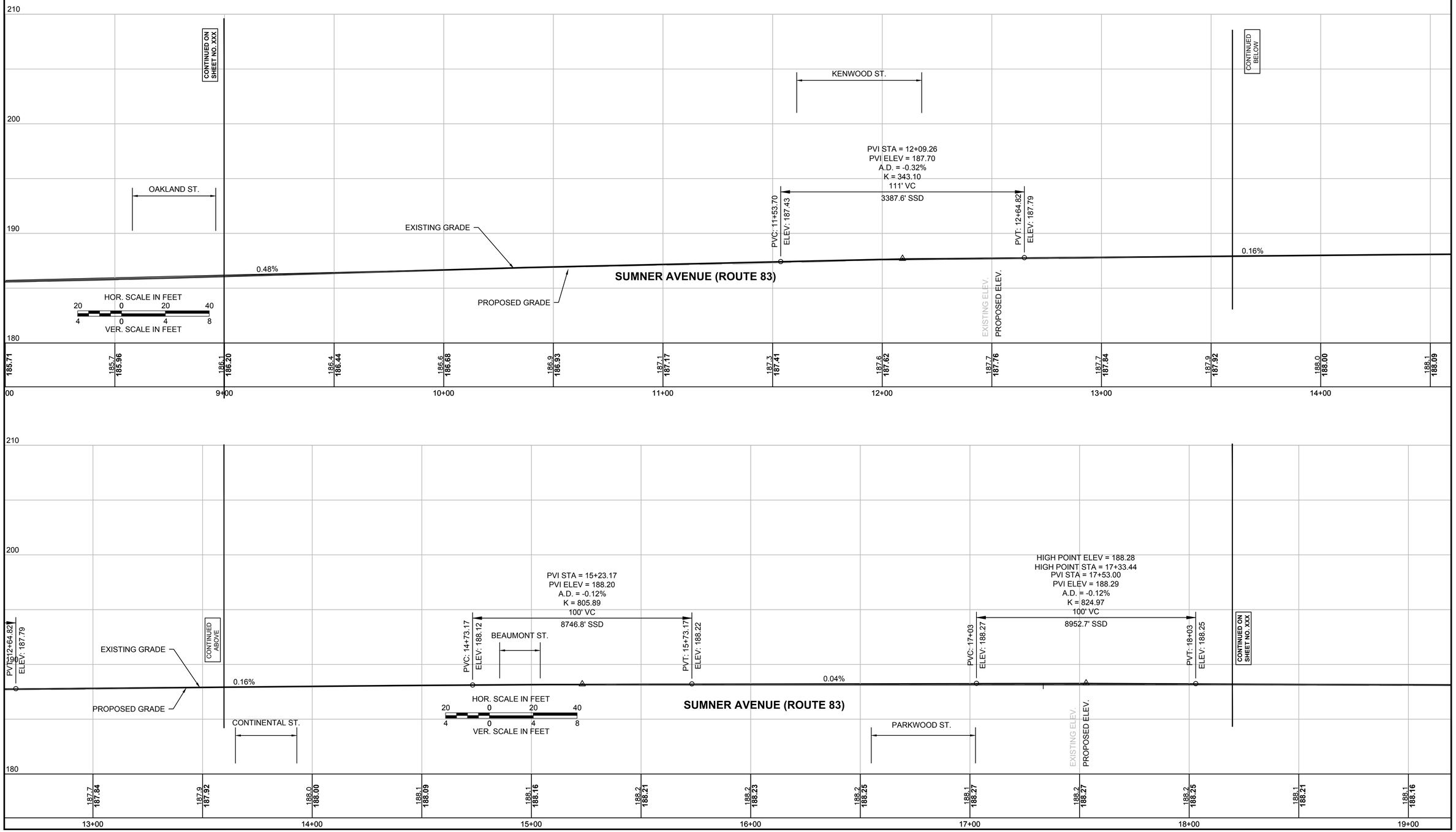
MS VIEW: -
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
20121457A70_PRO01.DWG Plotted on 2-Apr-2018 3:31 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	38	XXX
PROJECT FILE NO.	608717		

SUMNER AVE. PROFILE - 02

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. XX-XX



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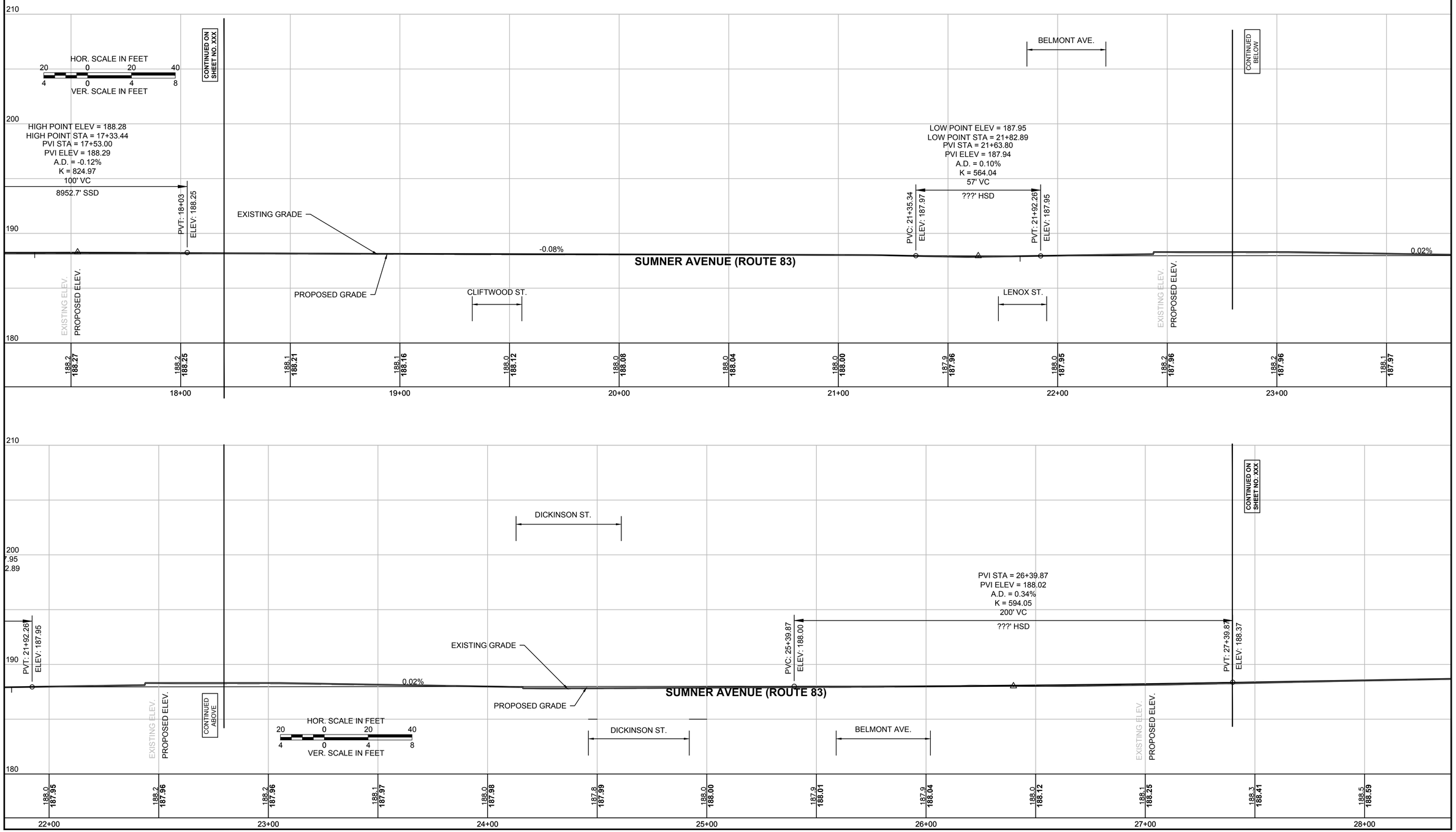
LAYER STATE: -
MS VIEW: -
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	39	XXX
PROJECT FILE NO.	608717		

SUMNER AVE. PROFILE - 03

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. XX-XX



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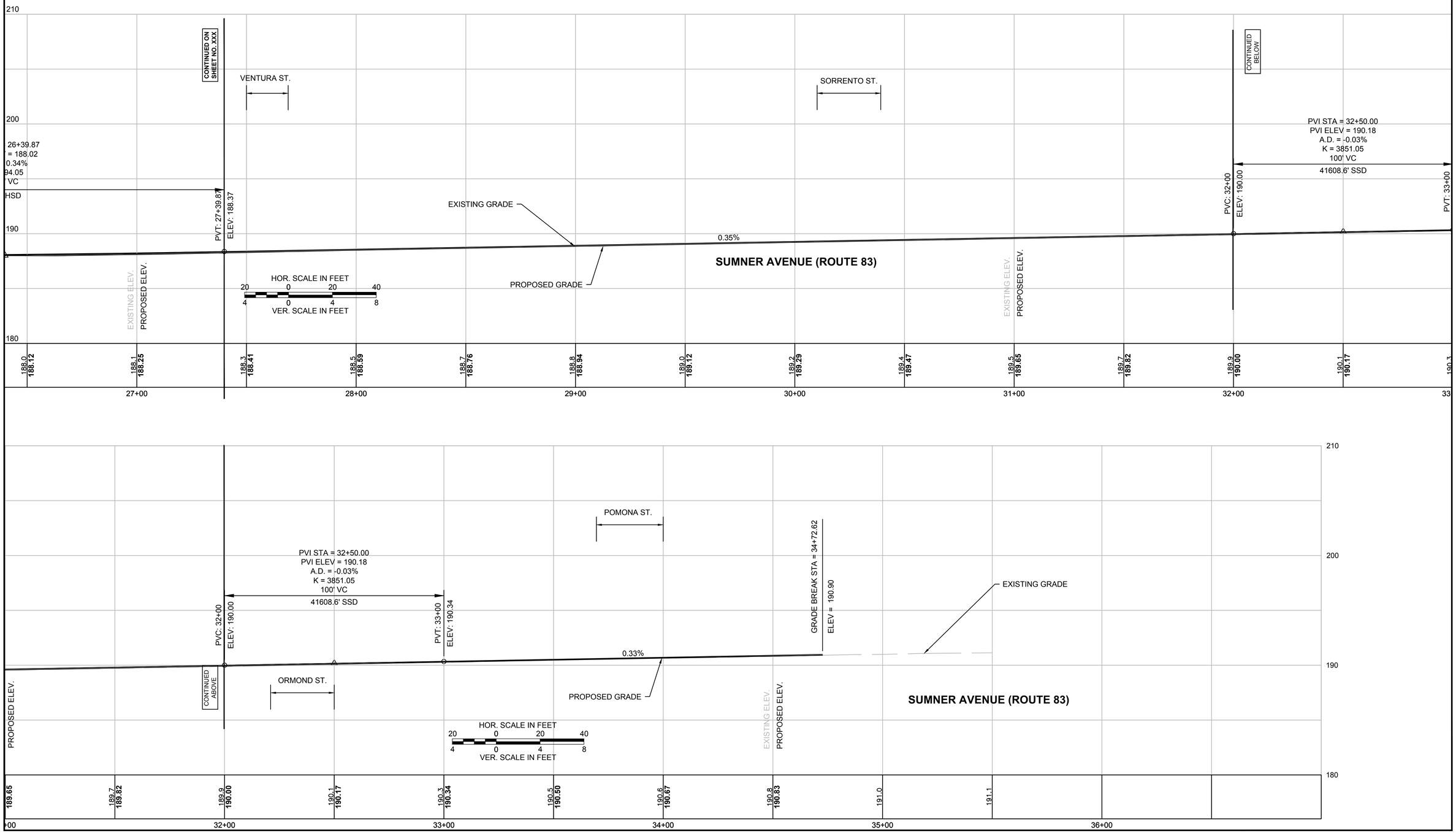
LAYER STATE: -
MS VIEW: -
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	40	XXX
PROJECT FILE NO.	608717		

SUMNER AVE. PROFILE - 04

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. XX-XX



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Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
LAYER STATE: -
MS VIEW: -

NOTE:

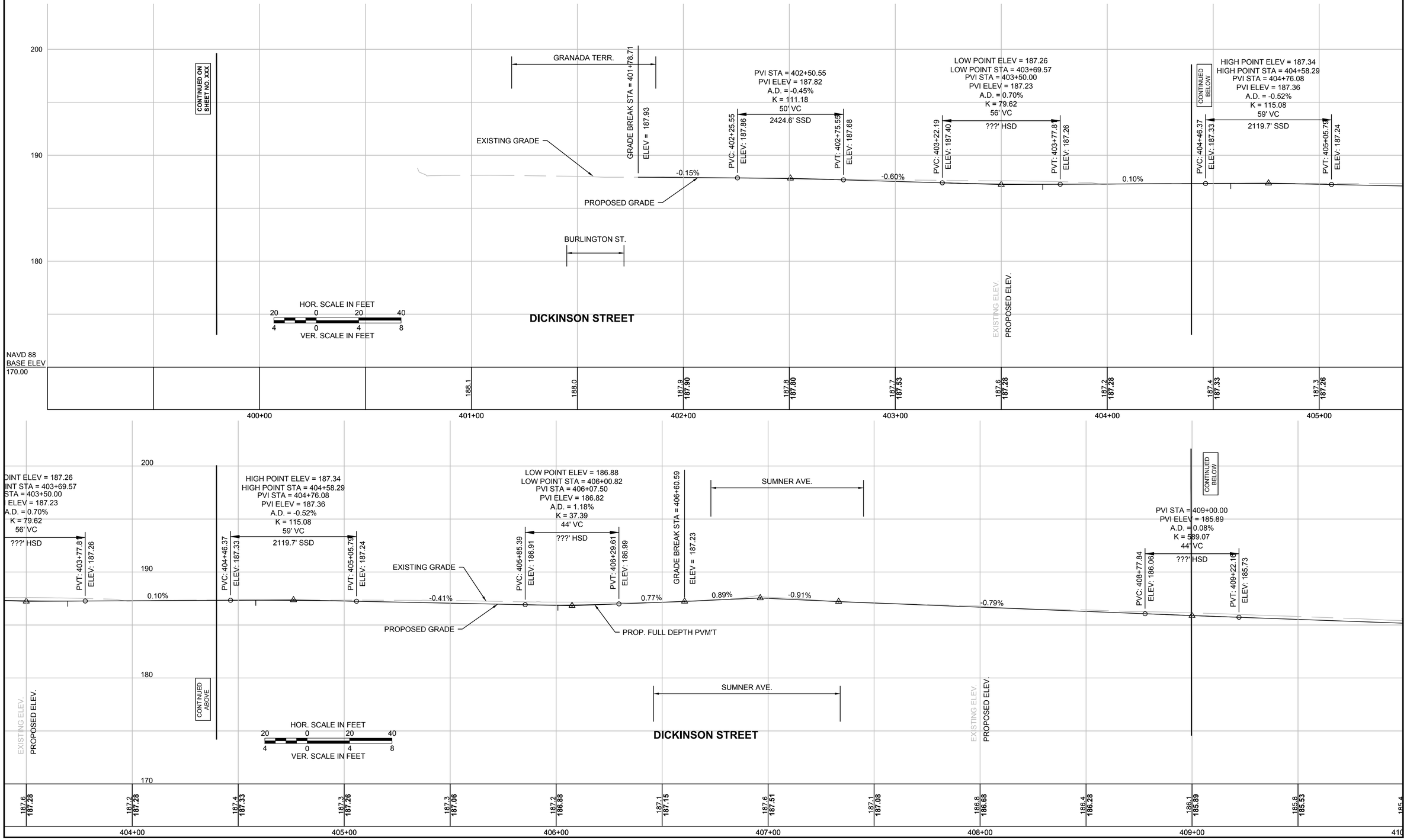
1. DICKINSON ST PROFILE WILL BE ADJUSTED FURTHER AT 75% DESIGN TO REFLECT THE APPROVED PAVEMENT DESIGN / PAVING THICKNESS.
2. BENCHMARK ELEVATIONS WILL BE ADDED TO 75% DESIGN PROFILE.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	41	XXX
PROJECT FILE NO.	608717		

DICKINSON ST. PROFILE - 01

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. XX-XX



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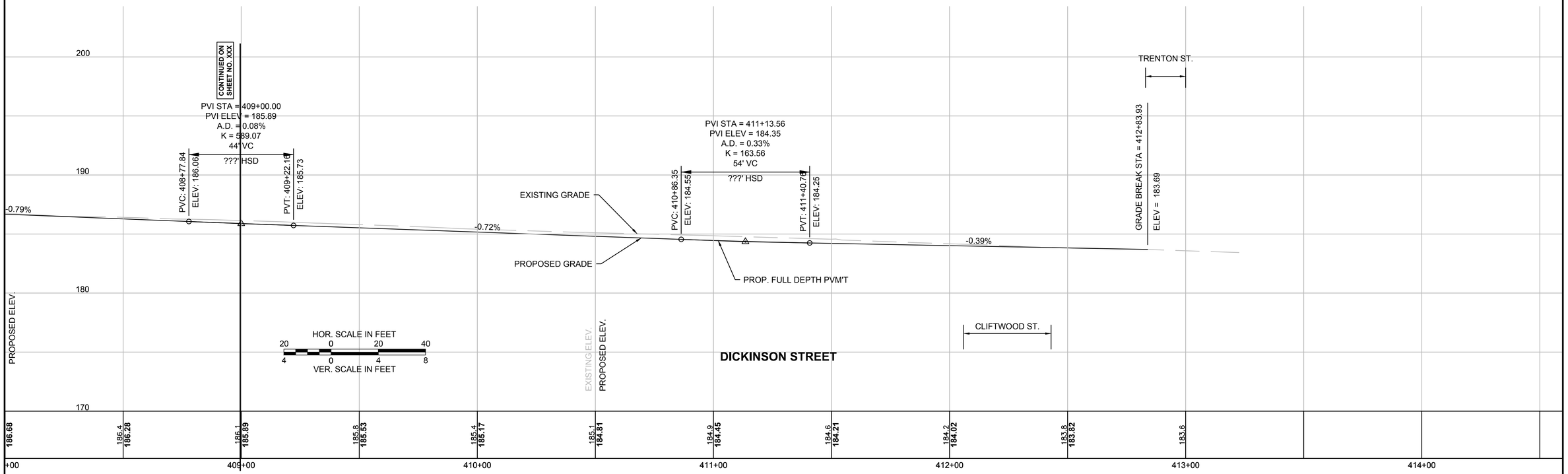
MS VIEW: - LAYER STATE: -
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
20121457A70_PRO01.DWG Plotted on 2-Apr-2018 3:33 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	42	XXX
PROJECT FILE NO.	608717		

DICKINSON ST. PROFILE - 02

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. XX-XX



20121457A70_PRO01.DWG Plotted on 2-Apr-2018 3:33 PM

File Path: J:\DWG\P20121457A70\Civil\Plan\20121457A70_PRO01.dwg Layout: DICKINSON PROFILE 02 Plotted: Mon, April 02, 2018 - 3:33 PM User: mperalta
MS VIEW: - LAYER STATE: -
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. XX-XX

NOTE:

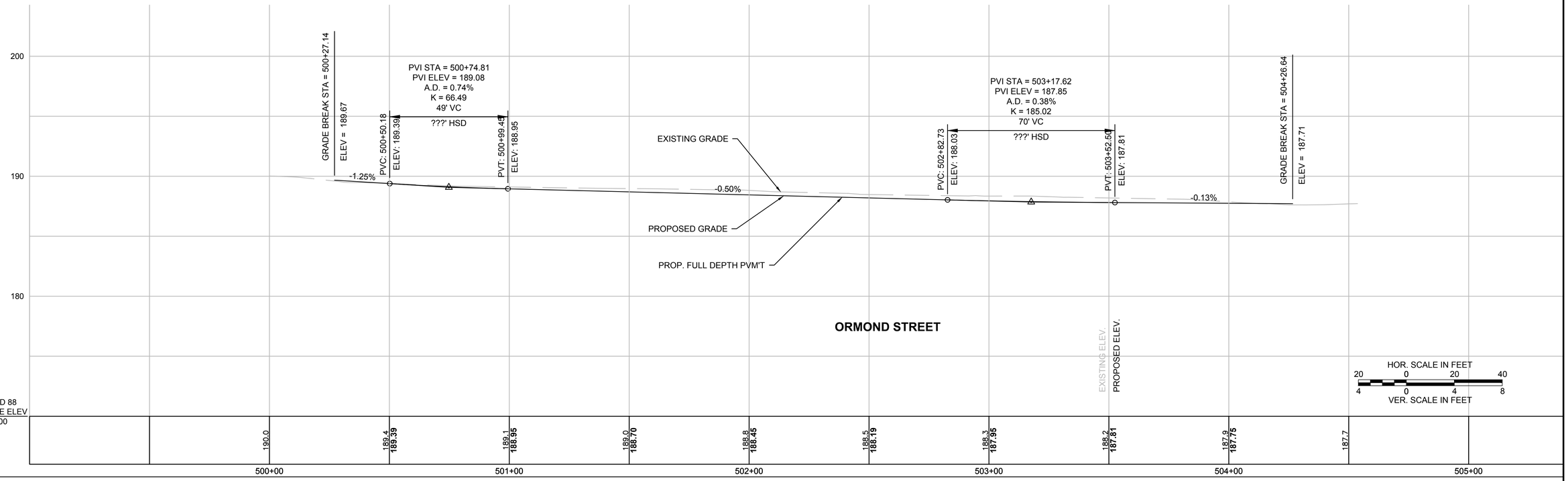
1. ORMOND ST AND OAKLAND ST PROFILES WILL BE ADJUSTED FURTHER AT 75% DESIGN TO REFLECT THE APPROVED PAVEMENT DESIGN / PAVING THICKNESS.

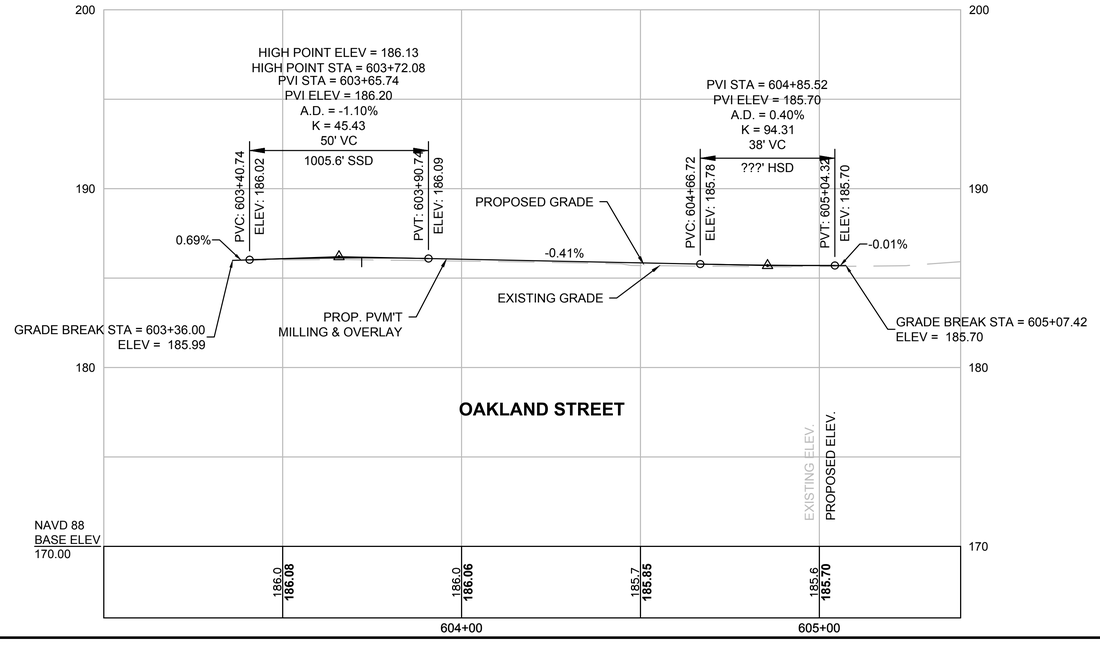
2. BENCHMARK ELEVATIONS WILL BE ADDED TO 75% DESIGN PROFILE.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	43	XXX
PROJECT FILE NO.	608717		

ORMOND ST. & OAKLAND ST. PROFILES





File Path: J:\DWG\P2012\1457\A70\Civil\Plan\20121457A70_PRO01.dwg Layout: ORMOND 01 Plotted: Mon, April 02, 2018 - 3:34 PM User: mperalta
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
LAYER STATE: -
MS VIEW: -

20121457A70_PRO01.DWG Plotted on 2-Apr-2018 3:34 PM

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. XX-XX

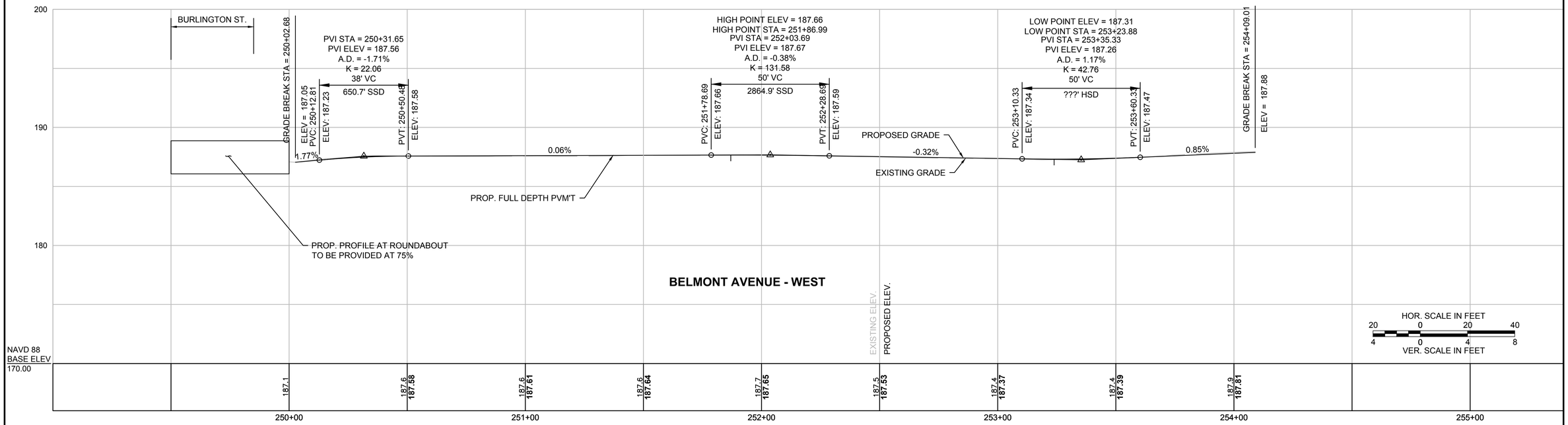
NOTE:

1. BELMONT AVE PROFILE WILL BE ADJUSTED FURTHER AT 75% DESIGN TO REFLECT THE APPROVED PAVEMENT DESIGN / PAVING THICKNESS.
2. BENCHMARK ELEVATIONS WILL BE ADDED TO 75% DESIGN PROFILE.
3. PROFILE ADJUSTMENT AND INCLUSION OF ROUNDABOUT WILL BE ADDED AT 75% DESIGN.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	44	XXX
PROJECT FILE NO.	608717		

BELMONT AVE. PROFILE - 01



20121457A70_PRO01.DWG Plotted on 2-Apr-2018 3:34 PM

File Path: J:\DWG\P20121457A70\Civil\Plan\20121457A70_PRO01.dwg Layout: BELMONT WEST Plotted: Mon, April 02, 2018 - 3:34 PM User: mperalta
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
MS VIEW: - LAYER STATE: -

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. XX-XX

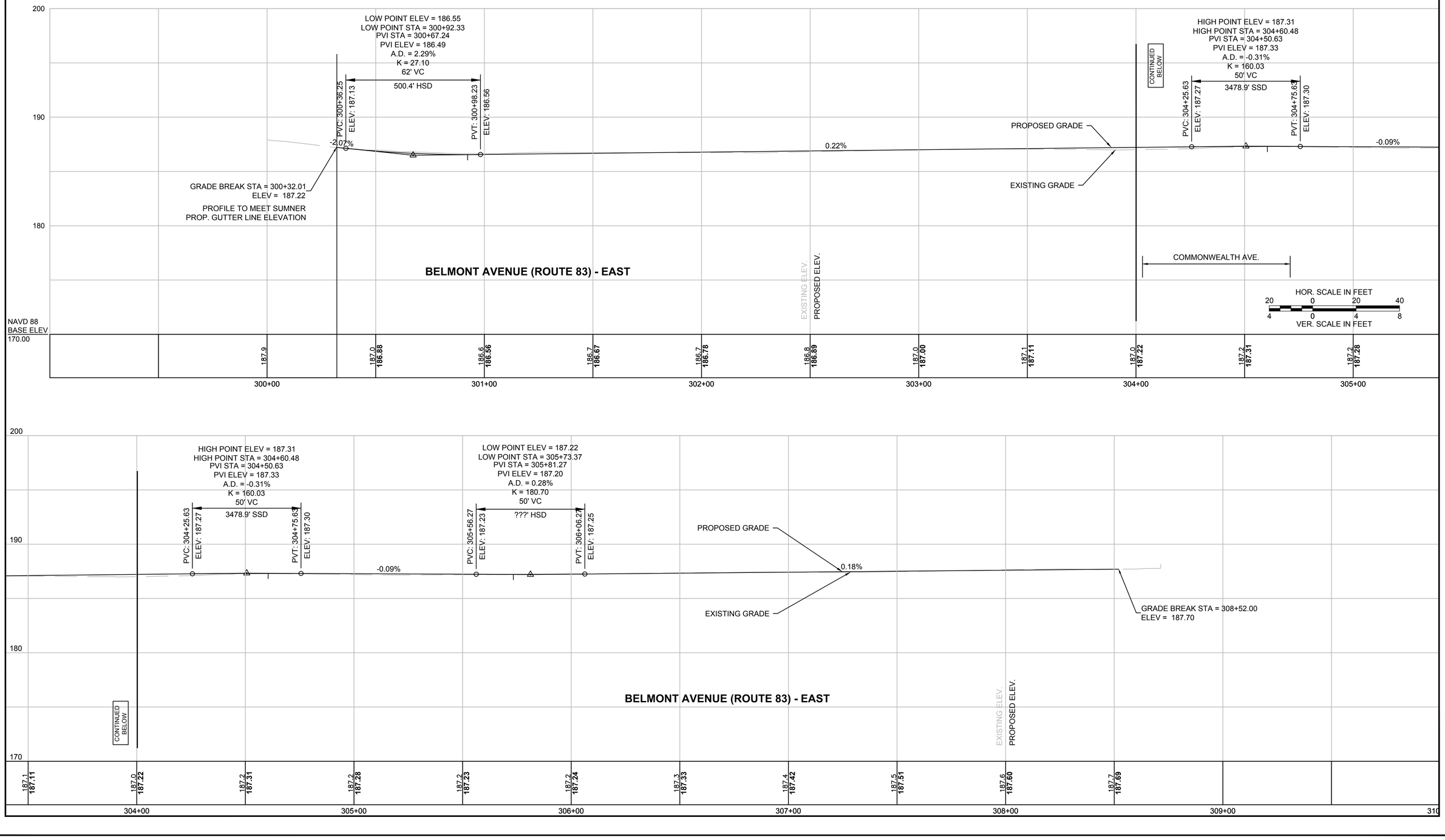
NOTE:

1. BELMONT AVE PROFILE WILL BE ADJUSTED FURTHER AT 75% DESIGN TO REFLECT THE APPROVED PAVEMENT DESIGN / PAVING THICKNESS.
2. BENCHMARK ELEVATIONS WILL BE ADDED TO 75% DESIGN PROFILE.
3. PROFILE ADJUSTMENT AND INCLUSION OF ROUNDABOUT WILL BE ADDED AT 75% DESIGN.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	45	XXX
PROJECT FILE NO.	608717		

BELMONT AVE. PROFILE - 02



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Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
LAYER STATE: -
MS VIEW: -

20121457A70_PRO01.DWG Plotted on 2-Apr-2018 3:34 PM

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. XX-XX

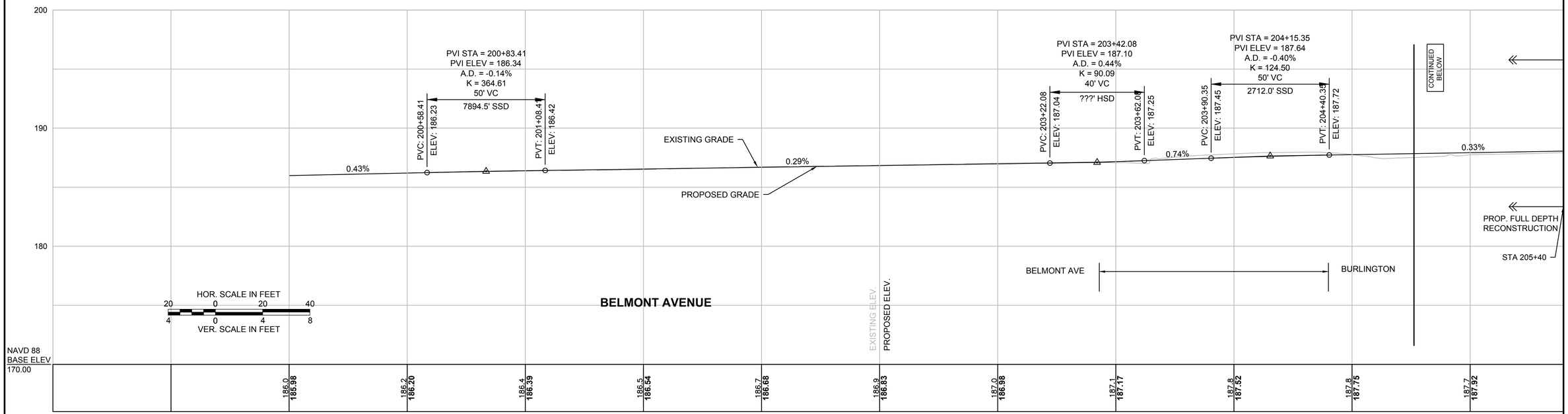
NOTE:

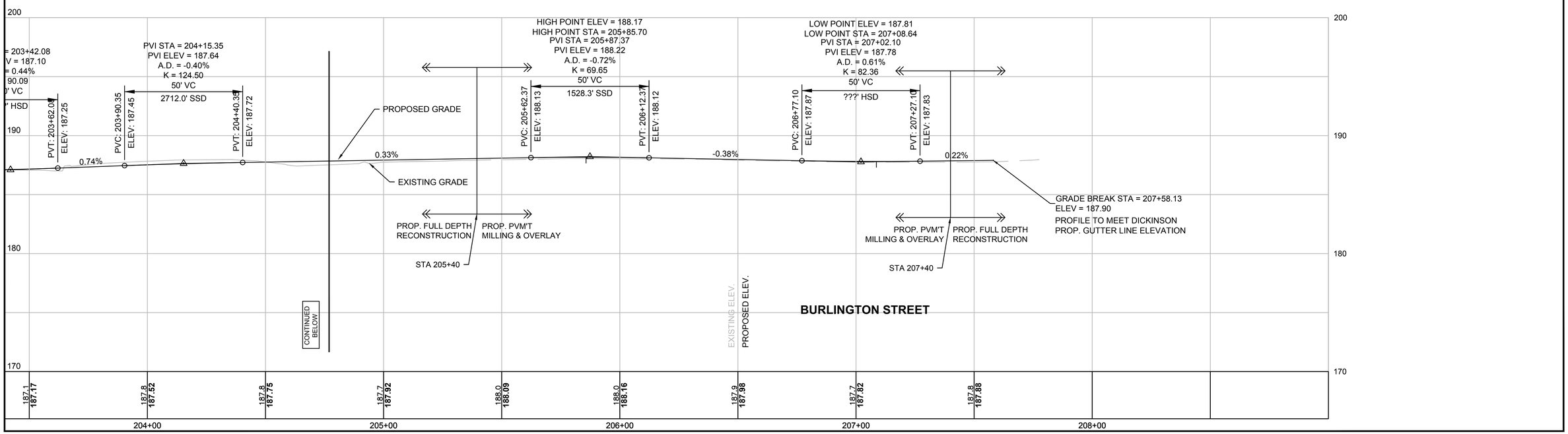
1. BURLINGTON ST PROFILE WILL BE ADJUSTED FURTHER AT 75% DESIGN TO REFLECT THE APPROVED PAVEMENT DESIGN / PAVING THICKNESS.
2. BENCHMARK ELEVATIONS WILL BE ADDED TO 75% DESIGN PROFILE.
3. PROFILE ADJUSTMENT AND INCLUSION OF ROUNDABOUT WILL BE ADDED AT 75% DESIGN.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	46	XXX
PROJECT FILE NO.	608717		

BURLINGTON ST. PROFILE - 01





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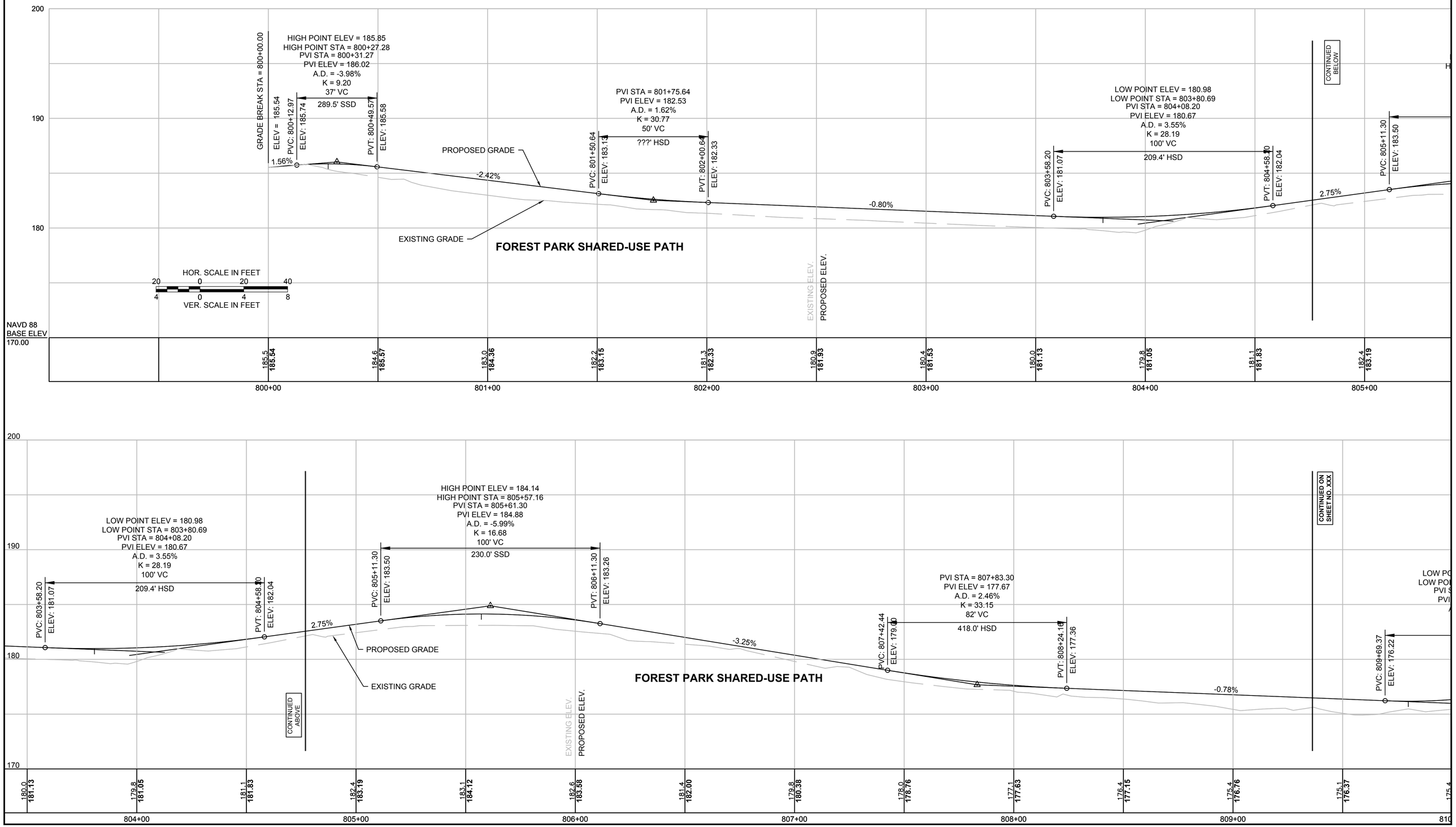
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
LAYER STATE: -
MS VIEW: -
20121457A70_PRO01.DWG Plotted on 2-Apr-2018 3:35 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	47	XXX
PROJECT FILE NO.	608717		

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. XX-XX

FOREST PARK PATH PROFILE - 01



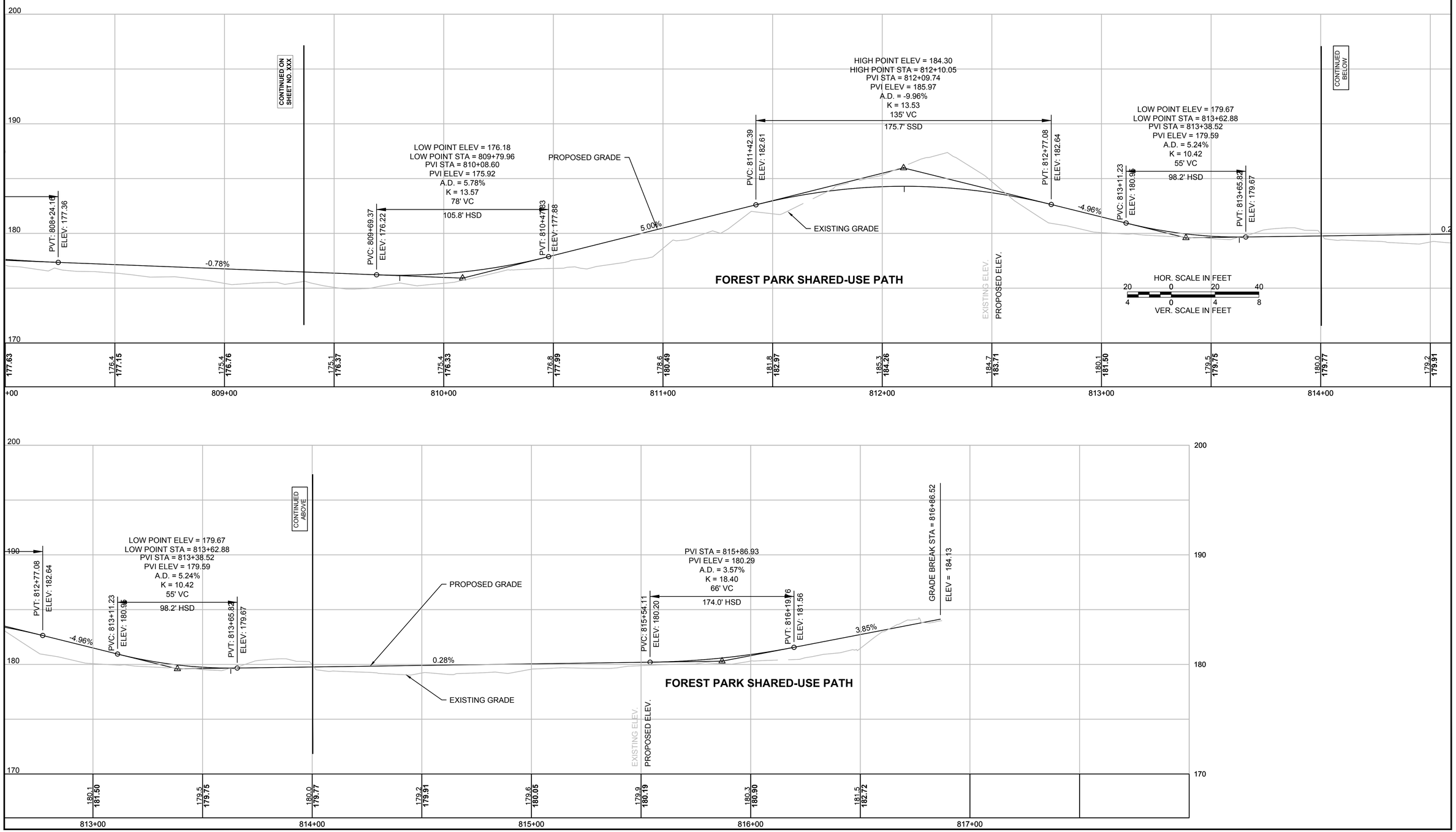
File Path: J:\DWG\P20121457\A70\Civil\Plan\20121457A70_PRO01.dwg Layout: CLIFTWOOD 01 Plotted: Mon, April 02, 2018 - 3:36 PM User: mperalta
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
LAYER STATE: -
MS VIEW: -
20121457A70_PRO01.DWG Plotted on 2-Apr-2018 3:36 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	48	XXX
PROJECT FILE NO.	608717		

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. XX-XX

FOREST PARK PATH PROFILE - 02



20121457A70_PRO01.DWG Plotted on 2-Apr-2018 3:36 PM

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Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
LAYER STATE: -
MS VIEW: -

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. XX-XX

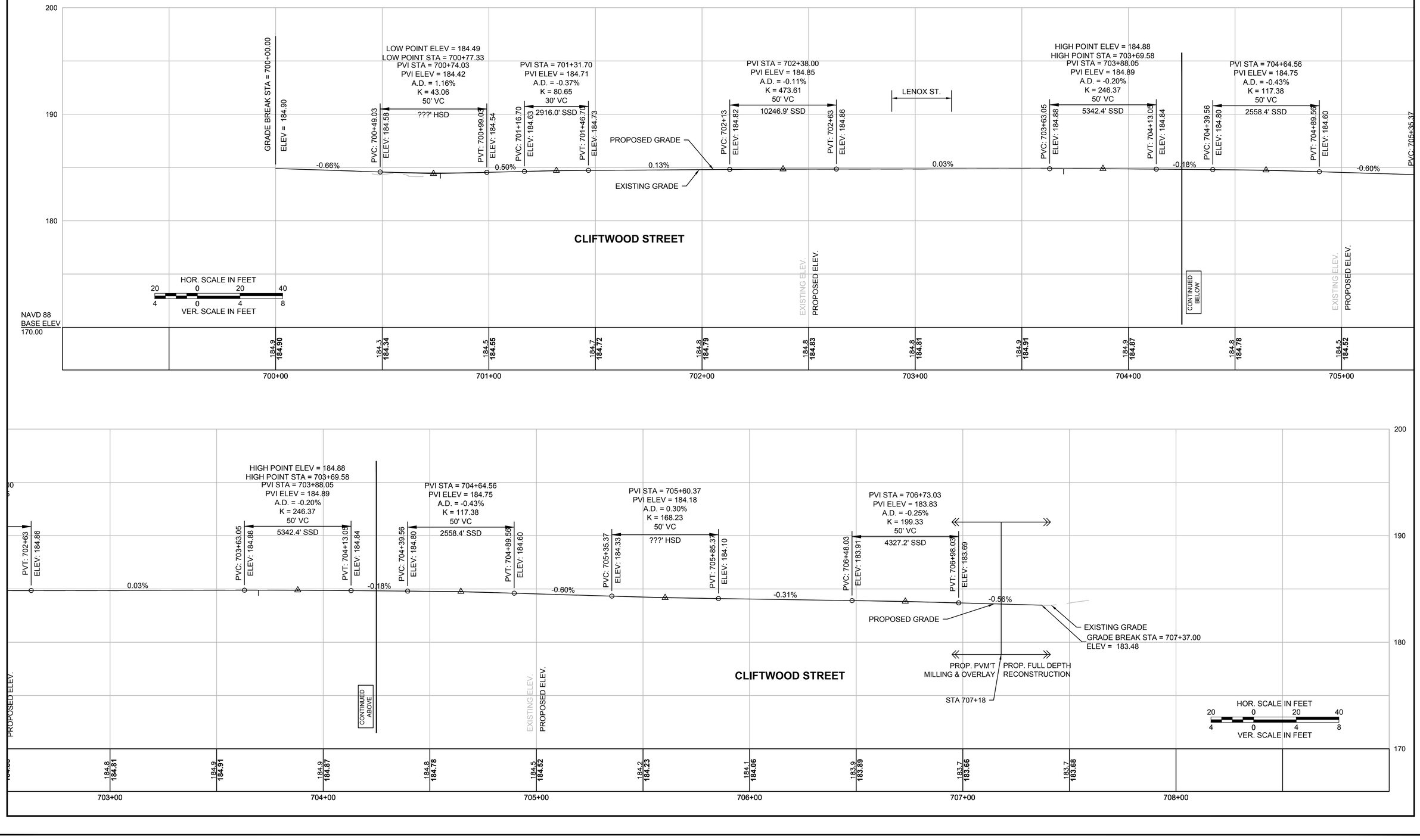
NOTE:

1. CLIFTWOOD ST PROFILE WILL BE ADJUSTED FURTHER AT 75% DESIGN TO REFLECT THE APPROVED PAVEMENT DESIGN / PAVING THICKNESS.
2. BENCHMARK ELEVATIONS WILL BE ADDED TO 75% DESIGN PROFILE.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	49	XXX
PROJECT FILE NO.	608717		

CLIFTWOOD ST. PROFILE



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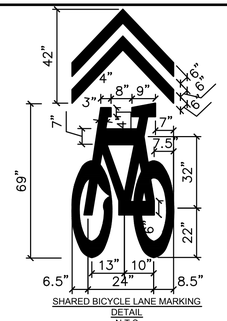
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
LAYER STATE: -
MS VIEW: -

20121457A70_PRO01.DWG Plotted on 2-Apr-2018 3:36 PM

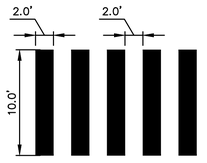
MARKING LEGEND	
	BICYCLE DETECTOR PAVEMENT MARKING
	PROPOSED SIGN
SL	PROPOSED 12" WHITE STOP LINE
CW	PROPOSED 18" WHITE CROSS WALK
SWL	PROPOSED 6" SOLID WHITE LINE
BWL	PROPOSED 6" BROKEN WHITE LINE (10' MARK - 30' SKIP)
SYL	PROPOSED 6" SOLID YELLOW LINE
BYCL	PROPOSED 6" BROKEN YELLOW CENTER LINE
DBYL	PROPOSED 6" DOUBLE YELLOW LINE
DWLEx	PROPOSED 6" DOTTED WHITE LINE EXTENSION(2' MARK - 6' SKIP)
YGL	YELLOW GORE LINE - 12" SOLID YELLOW LINE
◀▶	SLOTTED PAVEMENT MARKING: TWO-WAY YELLOW (40' O.C.)
▷	SLOTTED PAVEMENT MARKING: ONE-WAY WHITE (80' O.C.)

NOTE:

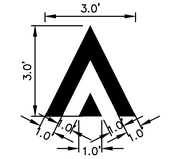
1. ALL STANDARD P-5 SIGN POSTS SHALL BE FACTORY COATED GLOSS BLACK
2. ALL EXISTING SIGNS TO REMAIN UNLESS OTHERWISE NOTED ON PLANS
3. ALL PAVEMENT MARKING LINES ARE TO BE THERMOPLASTIC
4. YELLOW GORE LINES SHALL FORM AN ANGLE OF APPROXIMATELY 30 TO 45 DEGREES WITH THE LONGITUDINAL LINES THAT THEY INTERSECT. SPACING OF GORE LINES SHALL BE APPROXIMATELY 15 FEET.
5. IN PAVEMENT AREAS OUTSIDE THE MILL & OVERLAY AREA, EXISTING PAVEMENT MARKINGS ARE TO BE REMOVED IN AREAS WHERE NEW PAVEMENT MARKINGS ARE PROPOSED
6. ALL R7 SERIES SIGNS (NO PARKING) SHALL BE INSTALLED AT 45 DEGREE ANGLE RELATIVE TO THE ROADWAY. REFER TO THE SIGN SYMBOLS PLACED ON PLANS
7. SEE SIGN SUMMARY ON SHEET XX FOR SIGN DETAILS



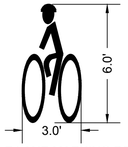
SHARED BICYCLE LANE MARKING DETAIL
N.T.S



CROSSWALK DETAIL
N.T.S



PAINTED WARNING SYMBOL
N.T.S



BICYCLE LANE MARKING DETAIL
N.T.S

XXXX PROPOSED SIGN DESIGNATION

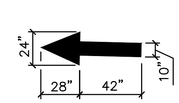
XXXX EXISTING SIGN DESIGNATION

NOTE:
CONTRACTOR SHALL SUPPLY STENCIL TO THE CITY OF SPRINGFIELD DPW.

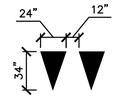
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	92	XXX
PROJECT FILE NO.	608717		

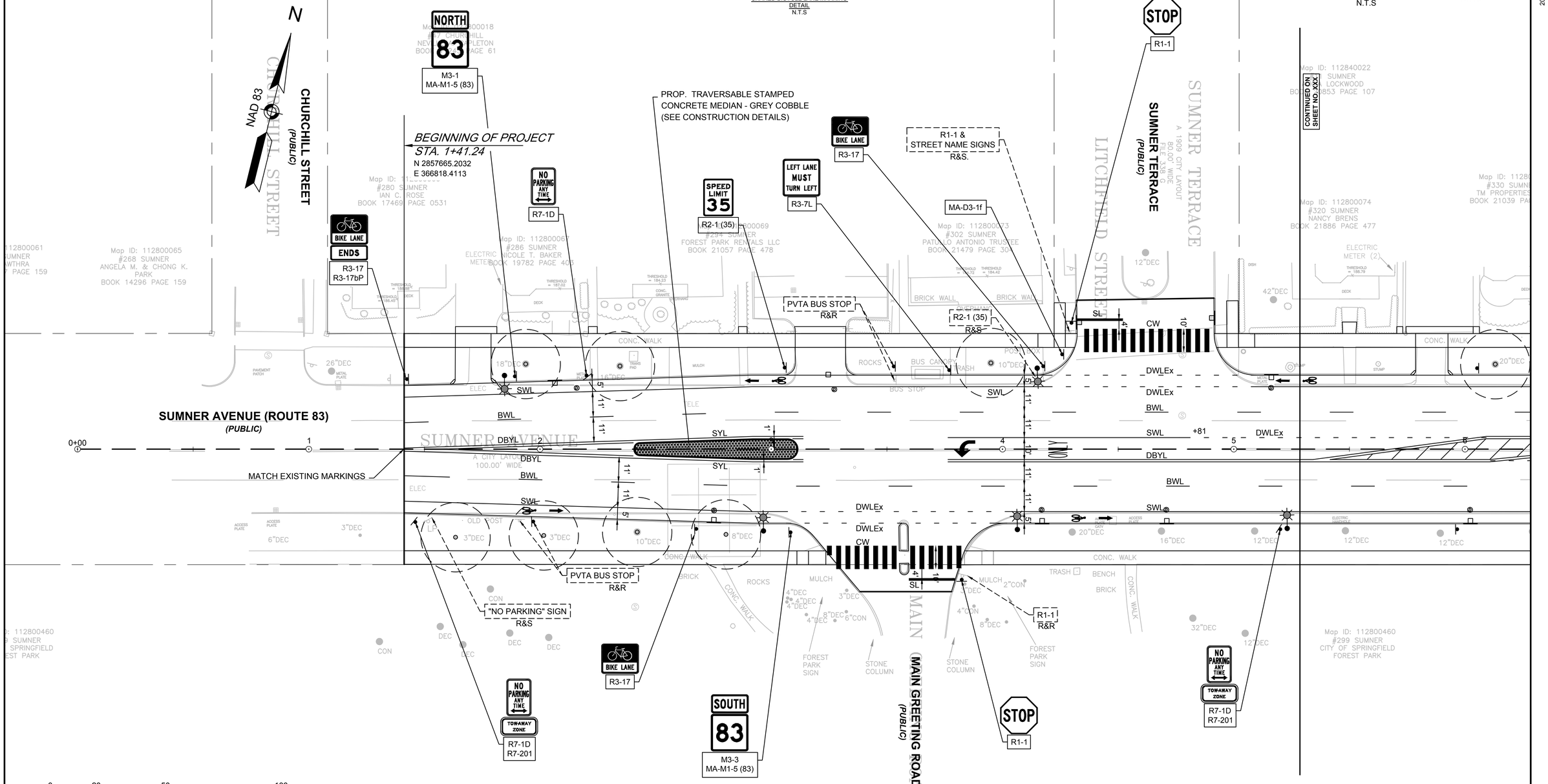
PAVEMENT MARKING AND SIGNING PLANS



BICYCLE LANE ARROW MARKING DETAIL
N.T.S



YIELD LINE DETAIL
N.T.S



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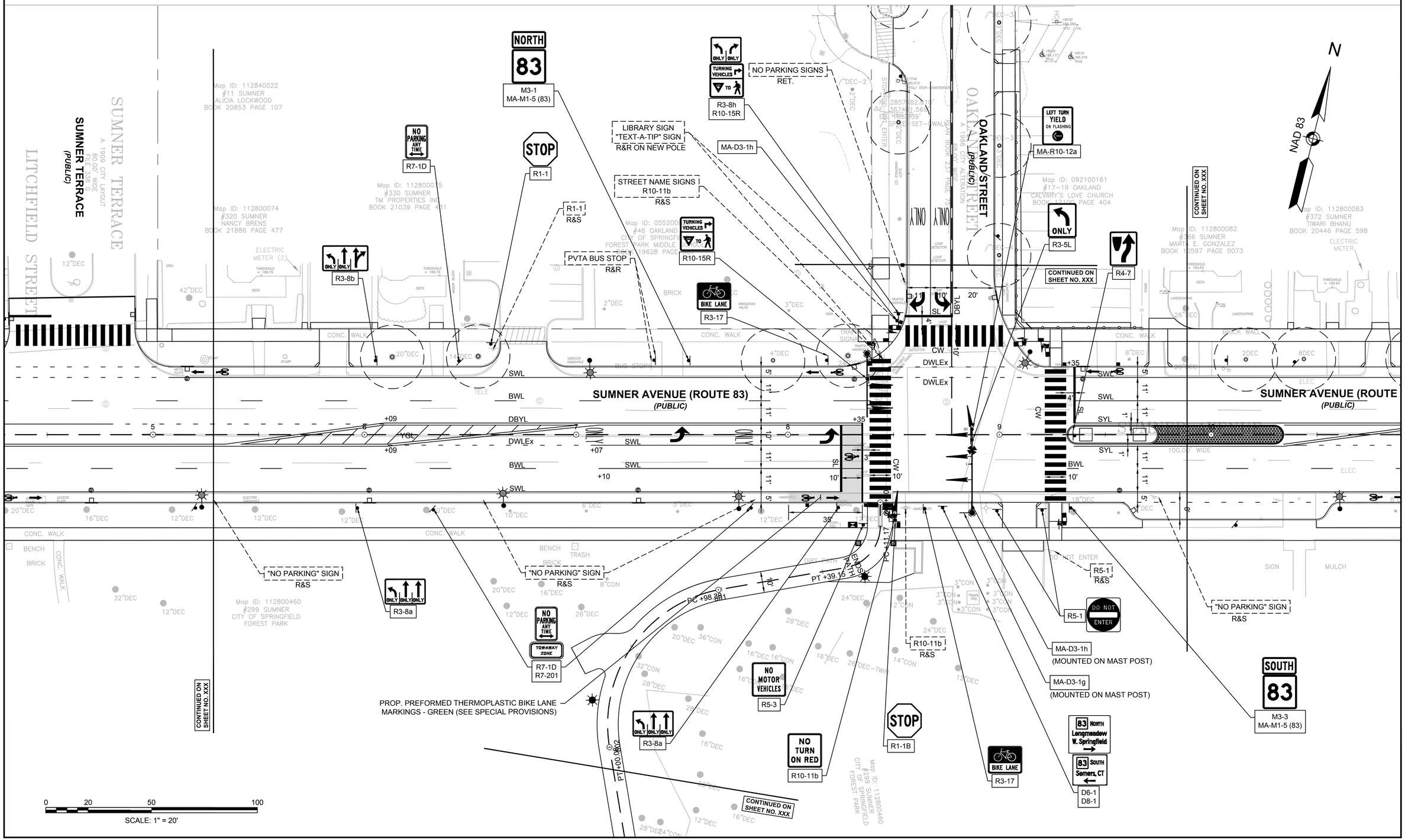
LAYER STATE: -
MS VIEW: -
20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:24 AM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	93	XXX
PROJECT FILE NO.	608717		

SEE SHEET XX FOR MARKING & SIGNING PLAN NOTES

PAVEMENT MARKING AND SIGNING PLANS



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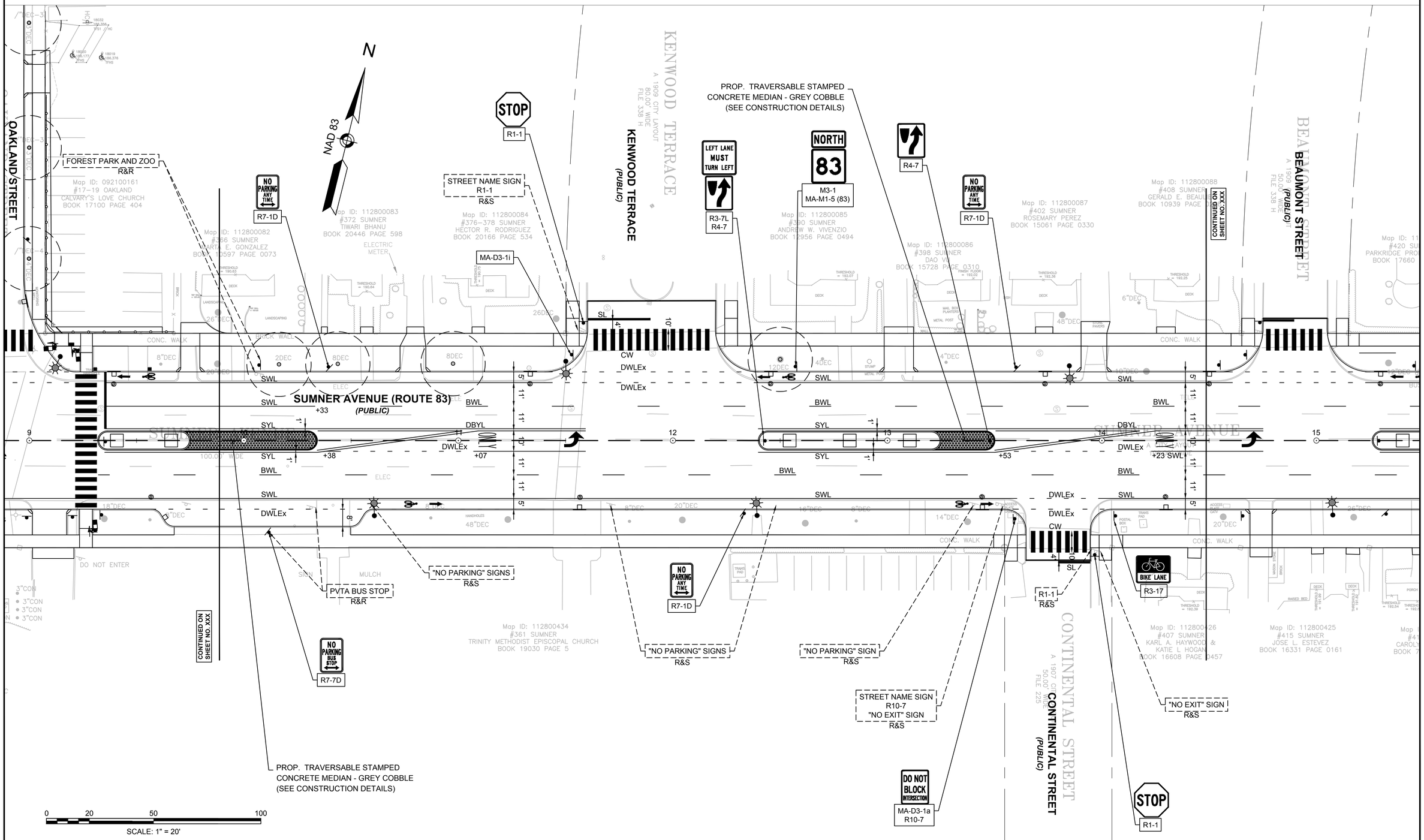
20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:24 AM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	94	XXX
	PROJECT FILE NO.	608717	

SEE SHEET XX FOR MARKING & SIGNING NOTES

PAVEMENT MARKING AND SIGNING PLANS



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MS VIEW: - LAYER STATE: - Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB

20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:24 AM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	95	XXX
PROJECT FILE NO.	608717		

PAVEMENT MARKING AND SIGNING PLANS

SEE SHEET XX FOR MARKING & SIGNING NOTES

PROP. TRAVERSABLE STAMPED CONCRETE MEDIAN - GREY COBBLE (SEE CONSTRUCTION DETAILS)

N

NAD 83

Map ID: 012350103
S S. BELMONT
CARRIAGE FUNERAL HOLDINGS, INC.
BOOK 16856 BOOK 0412

PT +88.34

STOP R1-1

LEFT LANE MUST TURN LEFT R3-7L R4-7

R4-7

NO PARKING ANY TIME R7-1D

NORTH 83 M3-1 MA-M1-5 (83)

NO PARKING ANY TIME R7-1D

BIKE LANE R3-17

STREET NAME SIGN R1-1 R&S

MA-D3-1j

PVTA BUS STOP R&R

BEAUMONT STREET
A 1909 CITY LAYOUT
50.0' WIDE
FILE 338 H
(PUBLIC)

Map ID: 112800088
#408 SUMNER
GERALD E. BEAUMIEU
BOOK 17660 PAGE 0287

Map ID: 112800087
#402 SUMNER
ROSEMARY PEREZ
BOOK 15[illegible] PAGE 0330

Map ID: 112800089
#420 SUMNER
PARKRIDGE PROPERTIES, LLC
BOOK 17660 PAGE 0287

Map ID: 112800090
#426 SUMNER
AGATHA WORRELL
BOOK 0828 PAGE 0517

Map ID: 112800091
#432 SUMNER
NICHOLAS G. GHANAME
BOOK 20827 PAGE 482

Map ID: 112800092
#440 SUMNER
SUMNER LLC
BOOK 20291 PAGE 164

Map ID: 112800095
#444 SUMNER
PERSAM SPRINGFIELD LLC
BOOK 21500 PAGE 242

CONTINUED ON SHEET NO. XXX

ELECTRIC METERS (2)

SUMNER AVENUE
A 1909 CITY LAYOUT
100.00' WIDE

SUMNER AVENUE (ROUTE 83)
(PUBLIC)

SL 4' 10'
CW
DWLEx
DWLEx
SWL
BWL
DBYL
SYL
YGL
R5.0'
11' 11' 1' 1'
5'
+77
+46
ONLY ONLY ONLY
CONC. WALK
TELE
BUS STOP

Map ID: 112800086
#407 SUMNER
KARL A. HAYWOOD &
KATIE L HOGAN
BOOK 16608 PAGE 0457

CONTINENTAL STREET
A 1907 CITY LAYOUT
50.00' WIDE
FILE 225
CONTINENTAL STREET
(PUBLIC)

Map ID: 112800425
#415 SUMNER
JOSE L. ESTEVEZ
BOOK [illegible]

"NO PARKING" SIGN R&S

CONTINUED ON SHEET NO. XXX

83 M3-3 MA-M1-5 (83)

NO PARKING ANY TIME R7-1D

Map ID: 112800423
#425 SUMNER
[illegible] SUPRENANT
BOOK 0422

PVTA BUS STOP R&R

PROP. GATEWAY ARCH (SEE DETAILS & STREETSCAPE PLANS)

Map ID: 112800424
#419 SUMNER
CAROLYN SUPRENANT
BOOK 7142 PAGE 120

NO OUTLET W14-2aR MA-D3-1b

STREET NAME SIGN R&S

"NO EXIT" SIGNS R&S

PARKWOOD STREET
A 1902 CITY LAYOUT
50.00' WIDE
FILE 107
PARKWOOD STREET
(PUBLIC)

GUIDE SIGN R&S

"NO PARKING" SIGN

2 HR PARKING X:XX AM TO X:XX PM R7-108

"NO PARKING" SIGN R2-1 (30) R&S

Map ID: 112800419
#449 SUMNER
RF REALTY COMPANY LLC
BOOK 19577 PAGE 357

R1-1 R&S

DO NOT BLOCK INTERSECTION R10-7

Map ID: 112800421
#445 SUMNER
RF REALTY COMPANY LLC
BOOK 19577 PAGE 357

STOP R1-1

ONLY ONLY ONLY R3-8a

PROP. PREFORMED THERMOPLASTIC BIKE LANE MARKINGS - GREEN (SEE SPECIAL PROVISIONS)

CLIFTWOOD STREET
A 1904 CITY LAYOUT
VARIABLE WIDTH
FILE 243 C
CLIFTWOOD STREET
(PUBLIC)

Map ID: 112
#461 SUM
RICHARD J. LABR
BOOK 12931 P

0 20 50 100
SCALE: 1" = 20'

20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:24 AM

File Path: J:\DWG\P20121457A70\Civil\Plan\20121457A70_PVT01.dwg Layout: PVT 04 Plotted: Tue, April 03, 2018 - 10:24 AM User: mperalta
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
LAYER STATE: -
MS VIEW: -

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	96	XXX
	PROJECT FILE NO. 608717		

PAVEMENT MARKING AND SIGNING PLANS

SEE SHEET XX FOR MARKING & SIGNING NOTES

N

NAD 83

BELMONT AVENUE (PUBLIC)
6200 WIDE LAYOUT

PT +88.34

PROP. PREFORMED THERMOPLASTIC BIKE LANE MARKINGS - GREEN (SEE SPECIAL PROVISIONS)

"NO PARKING" SIGN
"1 HR PARKING" SIGN
R&S

TURNING VEHICLES TO
R10-15R

R3-2

NORTH 83 TO 91 Longmeadow W. Springfield
83 SOUTH Somers, CT
D6-2
D8-2

R4-7

LEFT TURN YIELD ON FLASHING
MA-R10-12a

ONLY
R3-8e

"NO PARKING" SIGN
R&S

NO PARKING ANY TIME
R7-1D

ONLY
R3-8e

NORTH 83 TO 91 Longmeadow W. Springfield
Sumner Ave Belmont Ave
D6-5
D1-2

BIKE LANE
R3-17

ONE WAY
R6-1

MA-D3-1l

PVTA BUS STOP
R&S

W2-6

SHARE THE ROAD
W11-1
W16-1

DO NOT BLOCK INTERSECTION
R10-7

TURNING VEHICLES TO
R10-15R

"NO PARKING" SIGNS
R&S

R5-1
R&S

R1-2
R&S

R4-7
R&S

CONTINUED ON SHEET NO. XXX

NO PARKING BUS STOP
R7-7D

DICKINSON STREET (PUBLIC)
A CITY LAYOUT
60.00' WIDE

PC +99.99

PC +10.40

PT

SUMNER AVENUE (ROUTE 83)
(PUBLIC)
A CITY LAYOUT
100.00' WIDE

CLIFTWOOD STREET
(PUBLIC)
A 1904 CITY LAYOUT
VARIABLE WIDTH
FILE 243 C

LENOX STREET
(PUBLIC)
A 1904 CITY LAYOUT
VARIABLE WIDTH
DEED 1

R10-7
R&S

BIKE LANE
R3-17

Map ID: 112800419
#469 SUMNER
RF REALTY COMPANY LLC
BOOK 19855 PAGE 357

Map ID: 112800418
#461 SUMNER
RICHARD J. LABRIE TRUSTEE
BOOK 12931 PAGE 0013

Map ID: 112800417
#473 SUMNER
NORTHAMPTONBOYS2 LLC
BOOK 19855 PAGE 402

2 HR PARKING XXX AM TO XXX PM
R7-108

Map ID: 112800416
#475-479 SUMNER
NORTHAMPTONBOYS2 LLC
BOOK 19855 PAGE 402

PVTA BUS STOP
R&R

"NO PARKING" SIGN
R&S

R6-1R
R&S

STREET NAME SIGN
R&S

MA-D3-1c
(MOUNTED ON MAST POST)

MA-D3-1g
(MOUNTED ON MAST POST)

PROP. PREFORMED THERMOPLASTIC BIKE LANE MARKINGS - GREEN (SEE SPECIAL PROVISIONS)

STREET NAME SIGN
"NO PARKING" SIGN
R&S

ONLY
R3-5L

DO NOT BLOCK INTERSECTION
MA-D3-1d
R10-7

ONLY
R3-8f

Map ID: 112800415
#485-489 SUMNER
LENOX CHARITABLE TRUST, INC.
BOOK 07211 PAGE 0038

GUIDE SIGNS
R&S

R3-2
R4-7
R&S

Map ID: 112800414
#501 SUMNER
PETRAKIS REALTY LLC &
CARDINAL REALTY CO.
BOOK 11045 PAGE 373

"NO PARKING" SIGN
R&S

R7-108
R&S

83 SOUTH
E. Longmeadow
Somers, CT
SECOND RIGHT
Dickinson St
NEXT RIGHT
D6-7
D1-1B

ONE WAY
R6-1

BEGIN RIGHT TURN LANE
YIELD TO BIKES
R3-8c
R4-4

ONLY
R3-8a

CONTINUED ON SHEET NO. XXX

DO NOT ENTER
R5-1

SPEED LIMIT 30
R2-1 (30)

0 20 50 100
SCALE: 1" = 20'

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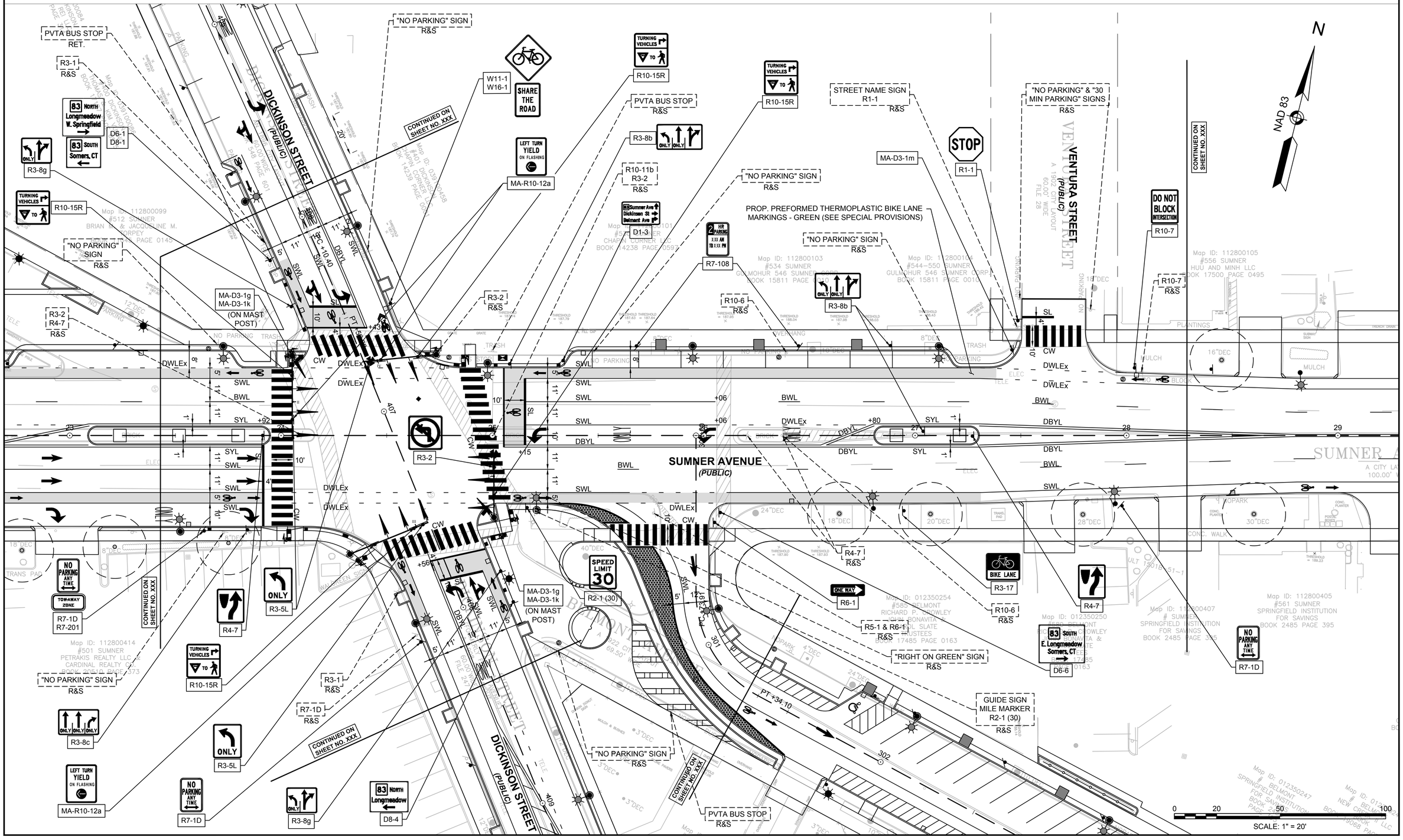
20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:24 AM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	97	XXX
	PROJECT FILE NO. 608717		

SEE SHEET XX FOR MARKING & SIGNING NOTES

PAVEMENT MARKING AND SIGNING PLANS



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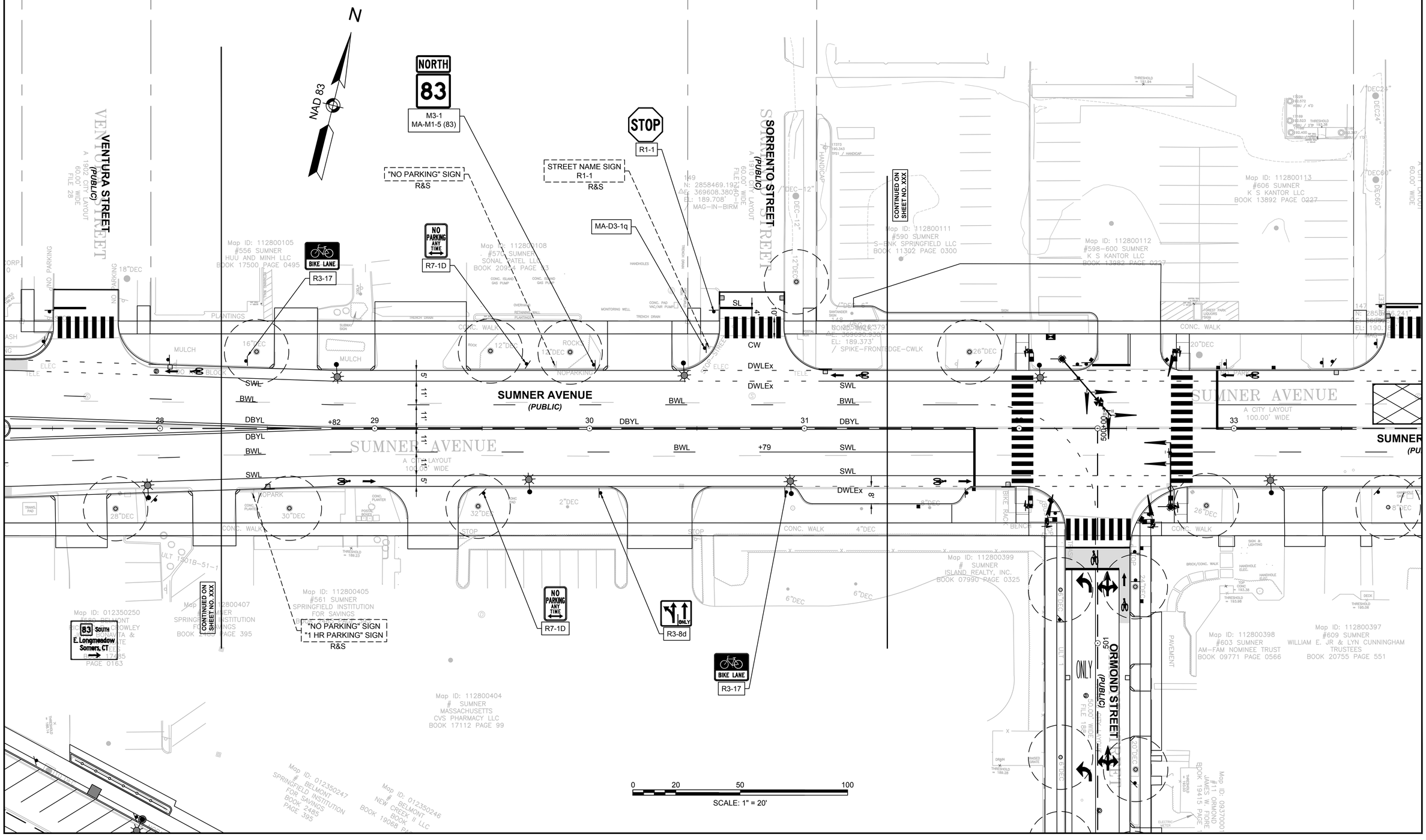
MS VIEW: -
20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:25 AM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	98	XXX
PROJECT FILE NO.	608717		

SEE SHEET XX FOR MARKING & SIGNING NOTES

PAVEMENT MARKING AND SIGNING PLANS



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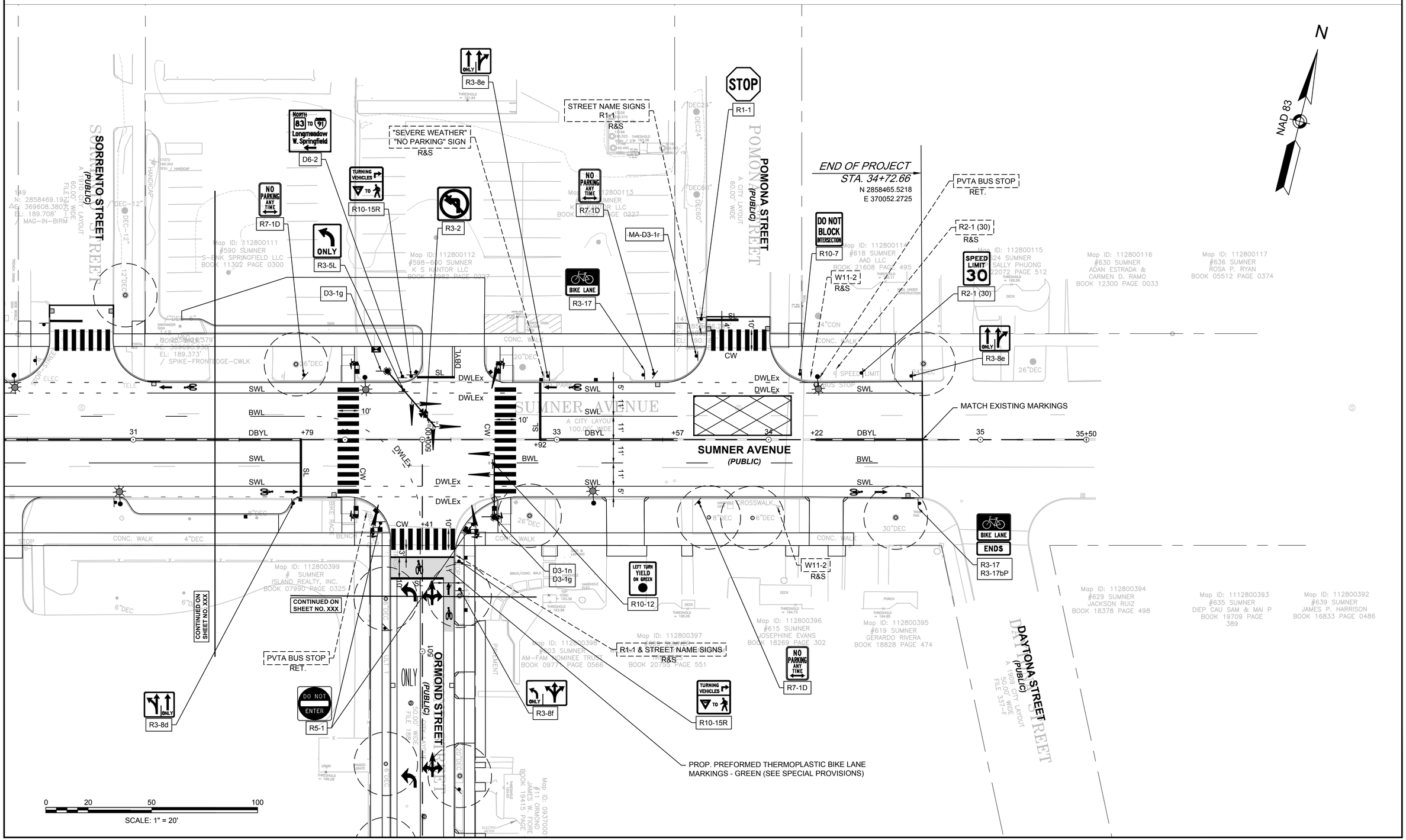
20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:25 AM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	99	XXX
	PROJECT FILE NO.	608717	

SEE SHEET XX FOR MARKING & SIGNING NOTES

PAVEMENT MARKING AND SIGNING PLANS



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20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:25 AM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	100	XXX
	PROJECT FILE NO.	608717	

PAVEMENT MARKING AND SIGNING PLANS

SEE SHEET XX FOR MARKING & SIGNING NOTES

N

NAD 83

BEAUMONT STREET (PUBLIC)
A 1901 CITY LAYOUT
50.00' WIDE
FILE 62

BURLINGTON STREET (PUBLIC)

BELMONT AVENUE (PUBLIC)

BEAUMONT STREET (PUBLIC)

LIMIT OF WORK
STA. 201+00.00
N 2858420.1479
E 368165.8058

200+00 201 202 203

PC +33.29
PT +33.29
PT +88.34

R7-1L & R7-2R

R7-2L & R7-1R

"NO PARKING" SIGN R&S

CONTINUED ON SHEET NO. XXX

SHARE THE ROAD
W11-1
W16-1

R4-7

R1-2

W11-2
W16-7pL

Burlington St
D1-1dA

Belmont Ave
D1-1dB

PROP. SWL
PARKING SPACES @ 51 DEG.

R1-1
STREET NAME SIGN
R&S

2 HR PARKING
X:XX AM TO X:XX PM
R7-108

R7-8

RESERVED PARKING

PVTA BUS STOP
RET.

W2-6

R6-4

BIKE LANE
R3-17

R3-17

20' (TYP.)

SWL
WGL
DBYL
TELE
DWLEx
CW
SYL

Map ID: 012350278
#461 BELMONT
NGUYEN HUNG & PHONG PHAM
BOOK 21604 PAGE 107H

Map ID: 012350276
#463–465 BELMONT
MAJHI JAGAT & SUK & BHIMA
BOOK 20802 PAGE 22

Map ID: 012350274
#469 BELMONT
CHARLES R. LYONS
BOOK 05614 PAGE 1

Map ID: 012350272
BELMONT
CARRIAGE FUNERAL HOLDINGS INC.
BOOK 16856 PAGE 0412

Map ID: 012350271
BELMONT
CARRIAGE FUNERAL HOLDINGS INC.
BOOK 16856 PAGE 0412

Map ID: 012350280
#453 BELMONT
LIANG MIN & QING ZHANG
BOOK 21058 PAGE 470

Map ID: 012350092
#450 BELMONT
MARTHA ALVARDO

Map ID: 012350094
#462 BELMONT
LOUIS GENOVESE & CAROLYN SUPRENANT
BOOK 18494 PAGE 354

Map ID: 012350095
S S BELMONT
CARRIAGE FUNERAL HOLDINGS INC.
BOOK 16856 PAGE 0412

Map ID: 012350097
S S BELMONT
CARRIAGE FUNERAL HOLDINGS INC.
BOOK 16856 PAGE 0412

Map ID: 012350099
S S BELMONT
CARRIAGE FUNERAL HOLDINGS INC.
BOOK 16856 PAGE 0412

Map ID: 012350101
#486–494 BELMONT
CARRIAGE FUNERAL HOLDINGS INC.
BOOK 16856 PAGE 0412

Map ID: 012350103
S S BELMONT
CARRIAGE FUNERAL HOLDINGS INC.
BOOK 16856 BOOK 0412

Map ID: 012350265
#501 BELMONT
VINCENZO R. M. & MARGARET M. AMORE
BOOK 20133 PAGE 233

Map ID: 012350263
#505 BELMONT
509 BELMONT INC.
BOOK 13096 PAGE 0178

Map ID: 021000007
#24 BURLINGTON
SALVATORE DI PROSPERO
BOOK 20228 PAGE 327

Map ID: 021000006
#20 BURLINGTON
ANTONIO CALVANESE
BOOK 20990 PAGE 150

Map ID: 021000004
BURLINGTON S. &
FIORE RALPH S. &
SANDRA MAKO-FIORE
BOOK 10111 PAGE 0194

Map ID: 021000002
#7 BURLINGTON
ANTHONY SANTANIELLO
BOOK 11757 PAGE 0103

Map ID: 021000003
#21 BURLINGTON
ANTHONY SANTANIELLO
BOOK 06524 PAGE 0113

Map ID: 039100077
#1368 DICKINSON
FREEDOM PROPERTY GROUP LLC
BOOK 20116 PAGE 578

Map ID: 112800095
#470 SUMNER
CUMBERLAND FARMS
BOOK 06101 PAGE

0 20 50 100
SCALE: 1" = 20'

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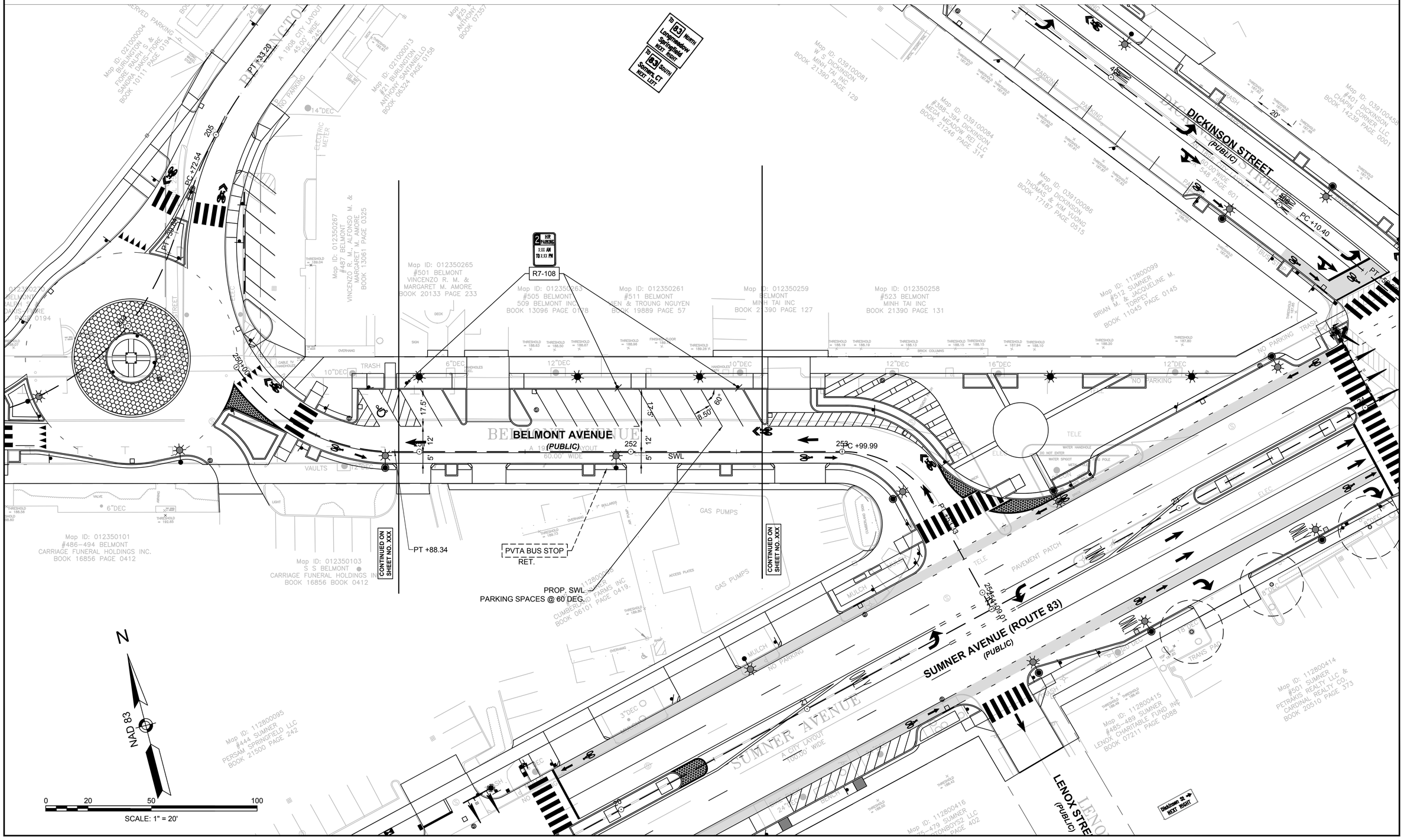
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:25 AM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	101	XXX
	PROJECT FILE NO.	608717	

PAVEMENT MARKING AND SIGNING PLANS

SEE SHEET XX FOR MARKING & SIGNING NOTES



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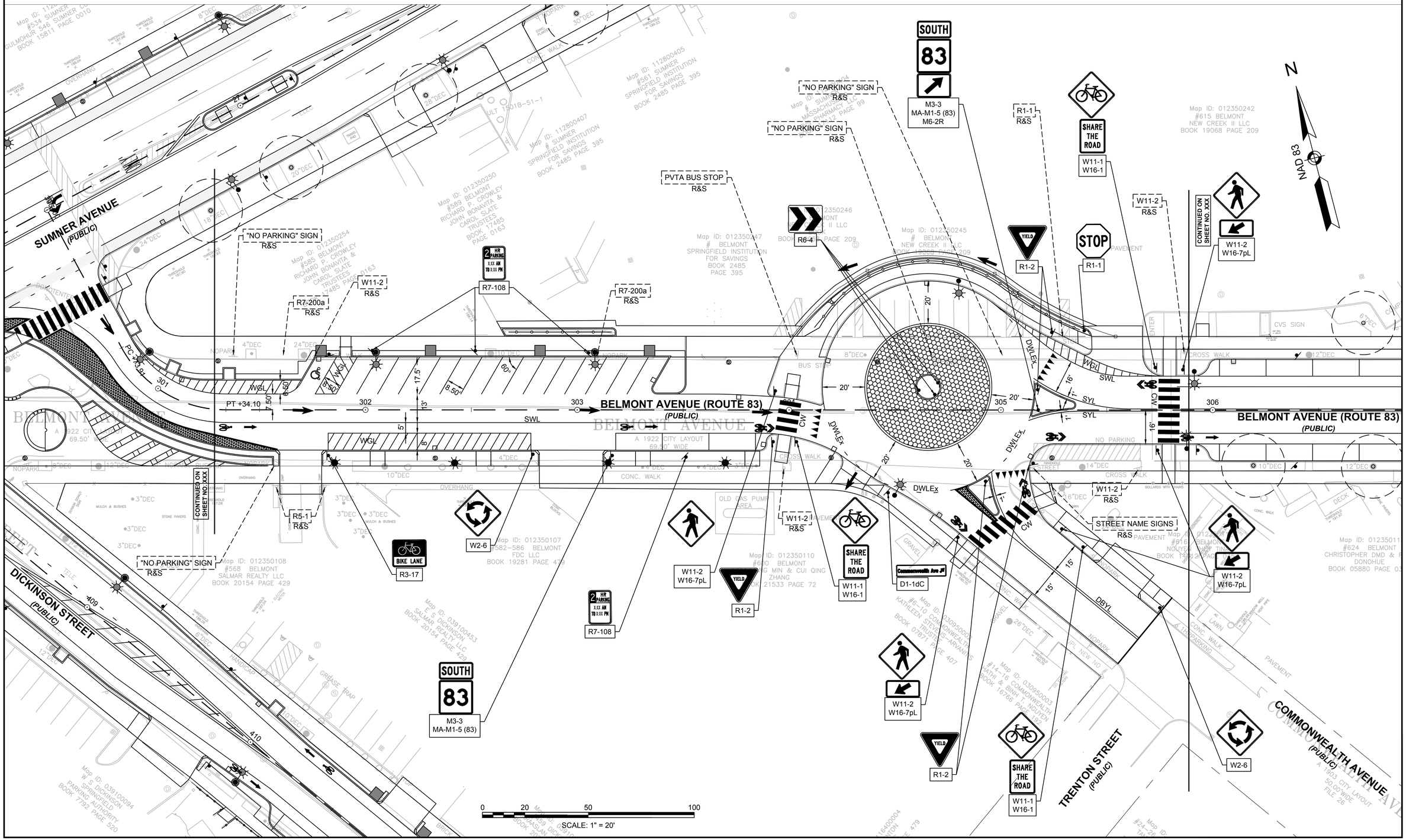
20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:25 AM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	102	XXX
	PROJECT FILE NO.	608717	

SEE SHEET XX FOR MARKING & SIGNING NOTES

PAVEMENT MARKING AND SIGNING PLANS



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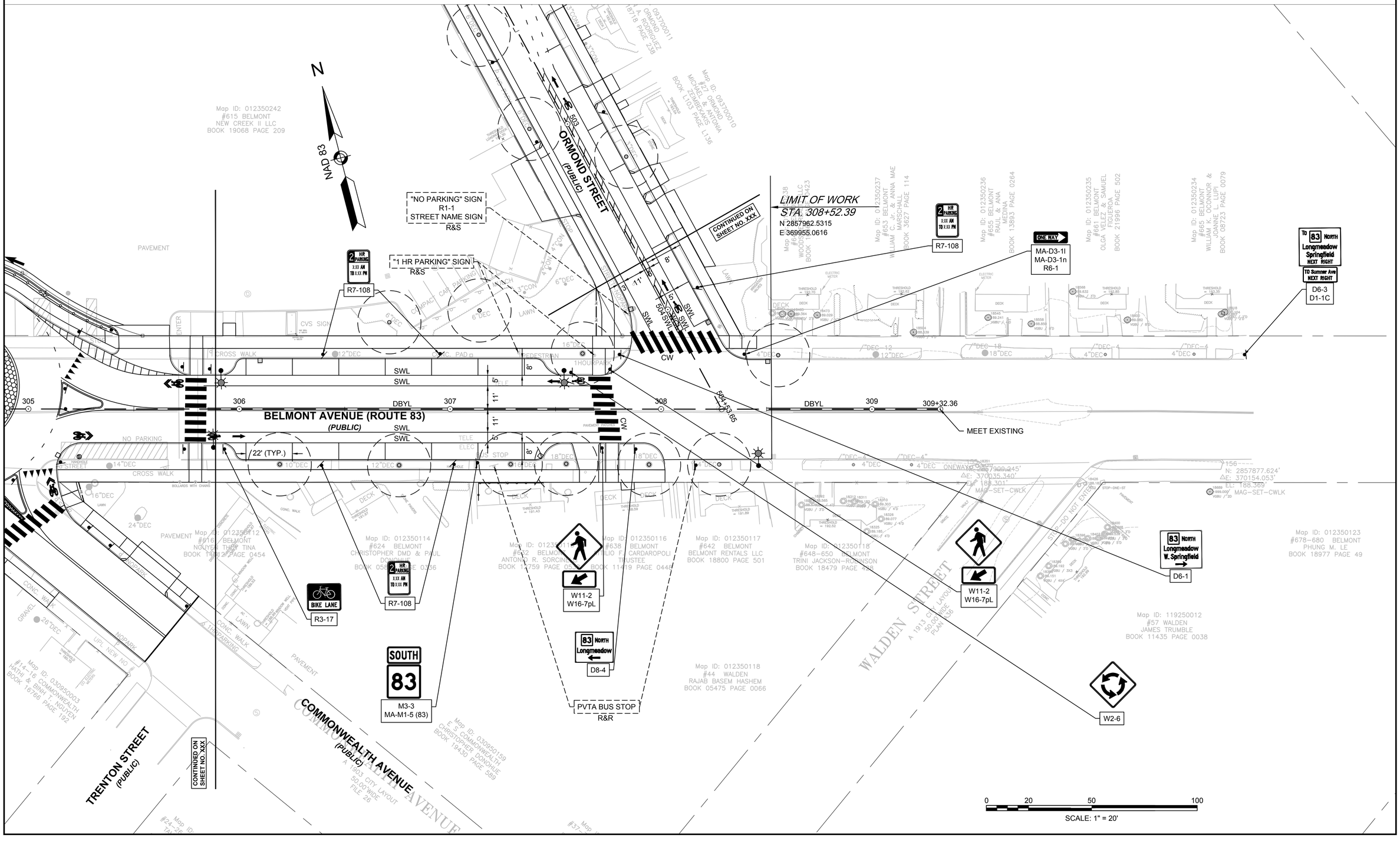
20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:26 AM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	103	XXX
	PROJECT FILE NO. 608717		

SEE SHEET XX FOR MARKING & SIGNING NOTES

PAVEMENT MARKING AND SIGNING PLANS



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MS VIEW: -
LAYER STATE: -

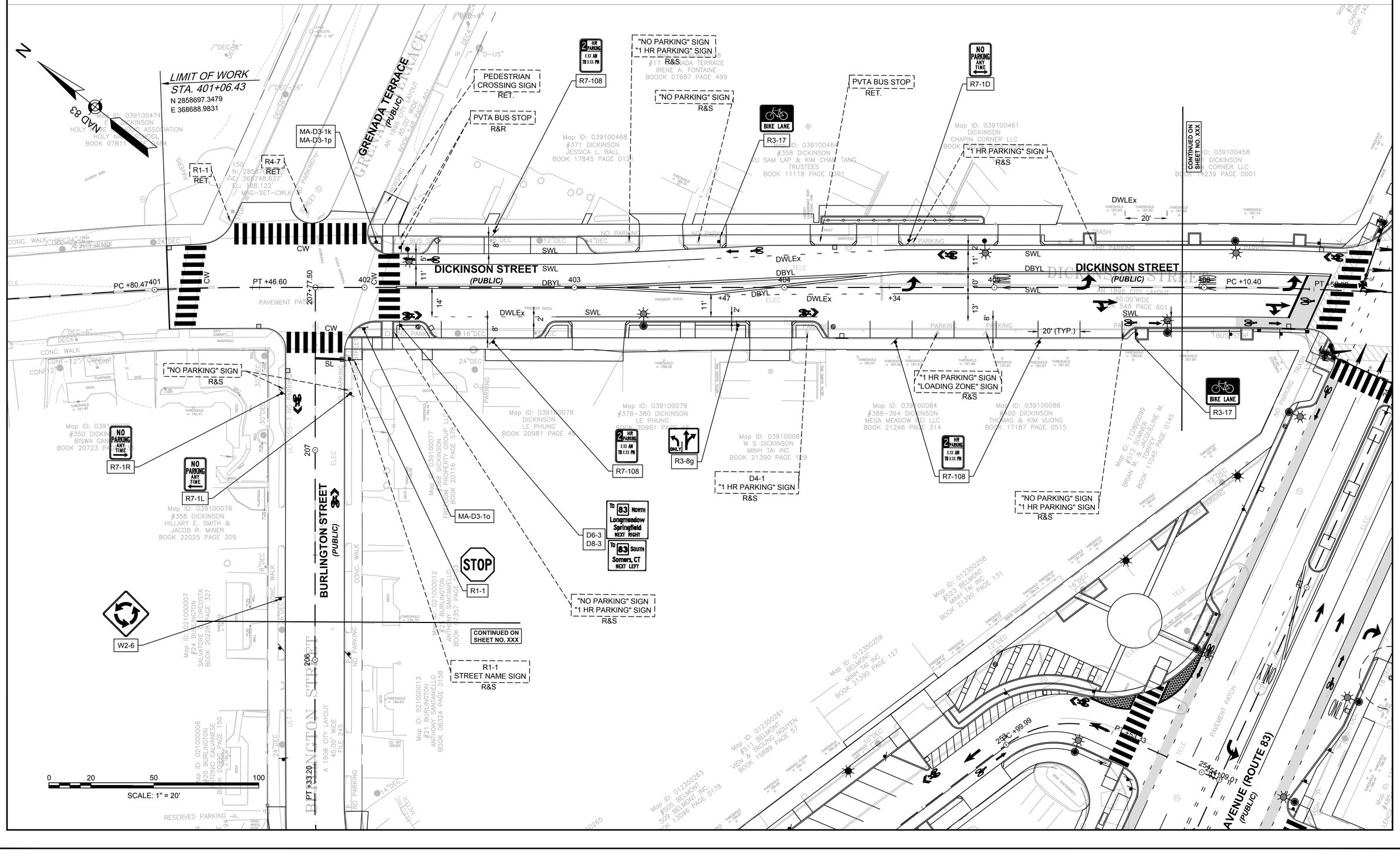
20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:26 AM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	104	XXX
	PROJECT FILE NO.	608717	

SEE SHEET XX FOR MARKING & SIGNING NOTES

PAVEMENT MARKING AND SIGNING PLANS



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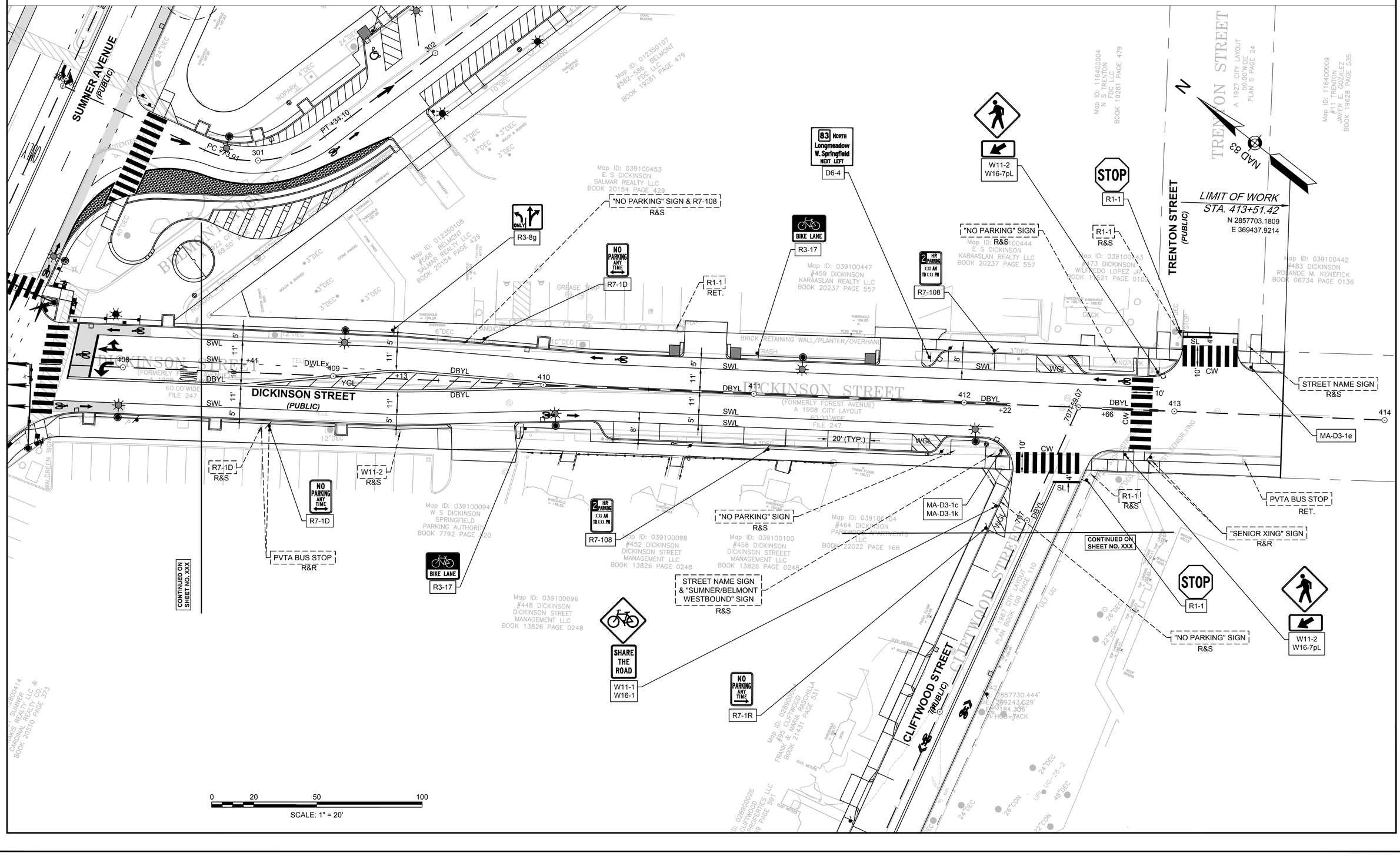
20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:26 AM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	105	XXX
	PROJECT FILE NO. 608717		

SEE SHEET XX FOR MARKING & SIGNING NOTES

PAVEMENT MARKING AND SIGNING PLANS



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LAYER STATE: -
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20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:26 AM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	106	XXX
	PROJECT FILE NO. 608717		

PAVEMENT MARKING AND SIGNING PLANS

SEE SHEET XX FOR MARKING & SIGNING NOTES

PROP. PREFORMED THERMOPLASTIC BIKE LANE MARKINGS - GREEN (SEE SPECIAL PROVISIONS)

R7-1D NO PARKING ANY TIME

R3-8f ONLY

R3-17 BIKE LANE

R7-1D NO PARKING ANY TIME

R7-108 2 HR PARKING X:XX AM TO X:XX PM

R7-1D NO PARKING ANY TIME

D6-4 83 NORTH Longmeadow W. Springfield NEXT LEFT

R1-1 RET.

"NO PARKING" SIGN R&S

CONTINUED ON SHEET NO.XXX

CONTINUED ON SHEET NO.XXX

LIMIT OF WORK
STA. 308+52.39
N 2857982.5315
E 3699859.0616

SUMNER AVENUE (PUBLIC)
A CITY LAYOUT
100.00' WIDE

ORMOND STREET (PUBLIC)
CITY LAYOUT
50.00' WIDE
FILE 189

BOSTON STREET (PUBLIC)
CITY LAYOUT
VARIABLE WIDTH
FILE 40-I

MAPLE STREET (PUBLIC)
CITY LAYOUT
VARIABLE WIDTH

MAIN STREET (ROUTE 83) (PUBLIC)

Map ID: 112800396 #615 SUMNER JOSEPHINE EVANS BOOK 18269 PAGE 302

Map ID: 112800397 #609 SUMNER WILLIAM E. JR & LYN CUNNINGHAM TRUSTEES BOOK 20755 PAGE 551

Map ID: 112800398 #603 SUMNER AM-FAM NOMINEE TRUST BOOK 09771 PAGE 0566

Map ID: 112800399 SUMNER ISLAND, LLC BOOK 07967 PAGE 0

Map ID: 112800112 #598-600 SUMNER K S KANTOR LLC BOOK 13892 PAGE 0227

Map ID: 112800111 #590 SUMNER S-BK SPRINGFIELD LLC BOOK 11302 PAGE 0300

Map ID: 093700013 #11 ORMOND JAMES W. FIORE BOOK 19415 PAGE 160

Map ID: 093700012 #17 ORMOND DANIEL J. GIBSON BOOK 17415 PAGE 240

Map ID: 093700011 #21 ORMOND ADRIAN A. RODRIGUEZ BOOK 18718 PAGE 238

Map ID: 093700010 #27 ORMOND MICHAEL & ANTONIA ZEMBEKAKIS BOOK 1103 PAGE L136

Map ID: 012350242 #615 BELMONT NEW CREEK V, LLC BOOK 19068 PAGE 209

Map ID: 012350115 #632 BELMONT ANTONIO R. SORCINELLI BOOK 12759 PAGE 0538

Map ID: 012350116 #638 BELMONT ATTILIO F. CARDAROPOLI TRUSTEE BOOK 11419 PAGE 0448

Map ID: 012350117 #644 BELMONT BELMONT RENTALS LLC BOOK 18600 PAGE 501

Map ID: 012350114 #624 BELMONT CHRISTOPHER DMD & PAUL DOOKHIE DMD BOOK 05880 PAGE 0336

Map ID: 012350235 #681 BELMONT OLGA VELEZ & SAMUEL FIGUEROA BOOK 21936 PAGE

Map ID: 012350236 #655 BELMONT RAUL & MONA MEDINA BOOK 13933 PAGE 0284

Map ID: 012350237 #653 BELMONT WILLIAM J. & ANNA MARSCHALL BOOK 3627 PAGE 114

Map ID: 012350239 #645 BELMONT BOOK 21936 PAGE

Map ID: 012350242 #615 BELMONT NEW CREEK V, LLC BOOK 19068 PAGE 209

Map ID: 309+32.36

Map ID: 309

Map ID: 308

Map ID: 307

Map ID: 504+53.65

Map ID: 504

Map ID: 503

Map ID: 502

Map ID: 501

Map ID: 148 N: 2858479.379' E: 3699926.130' EL: 189.288' SPIKE-FRONTEDGE-CWL

Map ID: 147 N: 2858486.431' E: 3699926.111' EL: 190.188' MAG-SET

N NAD 83

0 20 50 100
SCALE: 1" = 20'

File Path: J:\DWG\P20121457\A70\Civil\Plan\20121457A70_PVT01.dwg Layout: PVT 15 Plotted: Tue, April 03, 2018 - 10:26 AM User: mperalta
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
MS VIEW:- LAYER STATE:-

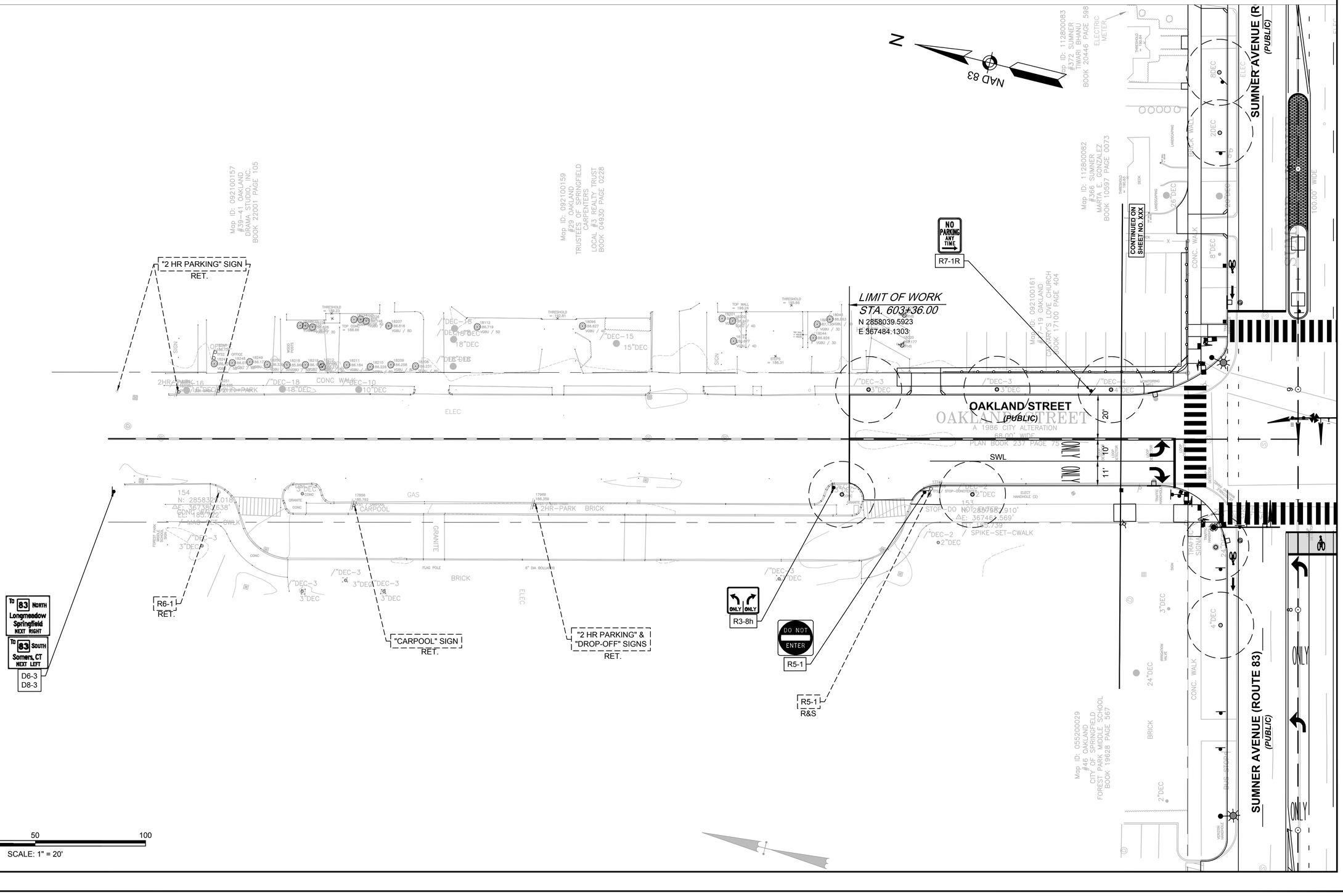
20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:26 AM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	107	XXX
PROJECT FILE NO.	608717		

PAVEMENT MARKING AND SIGNING PLANS

SEE SHEET XX FOR MARKING & SIGNING NOTES



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Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
MS VIEW: -
LAYER STATE: -

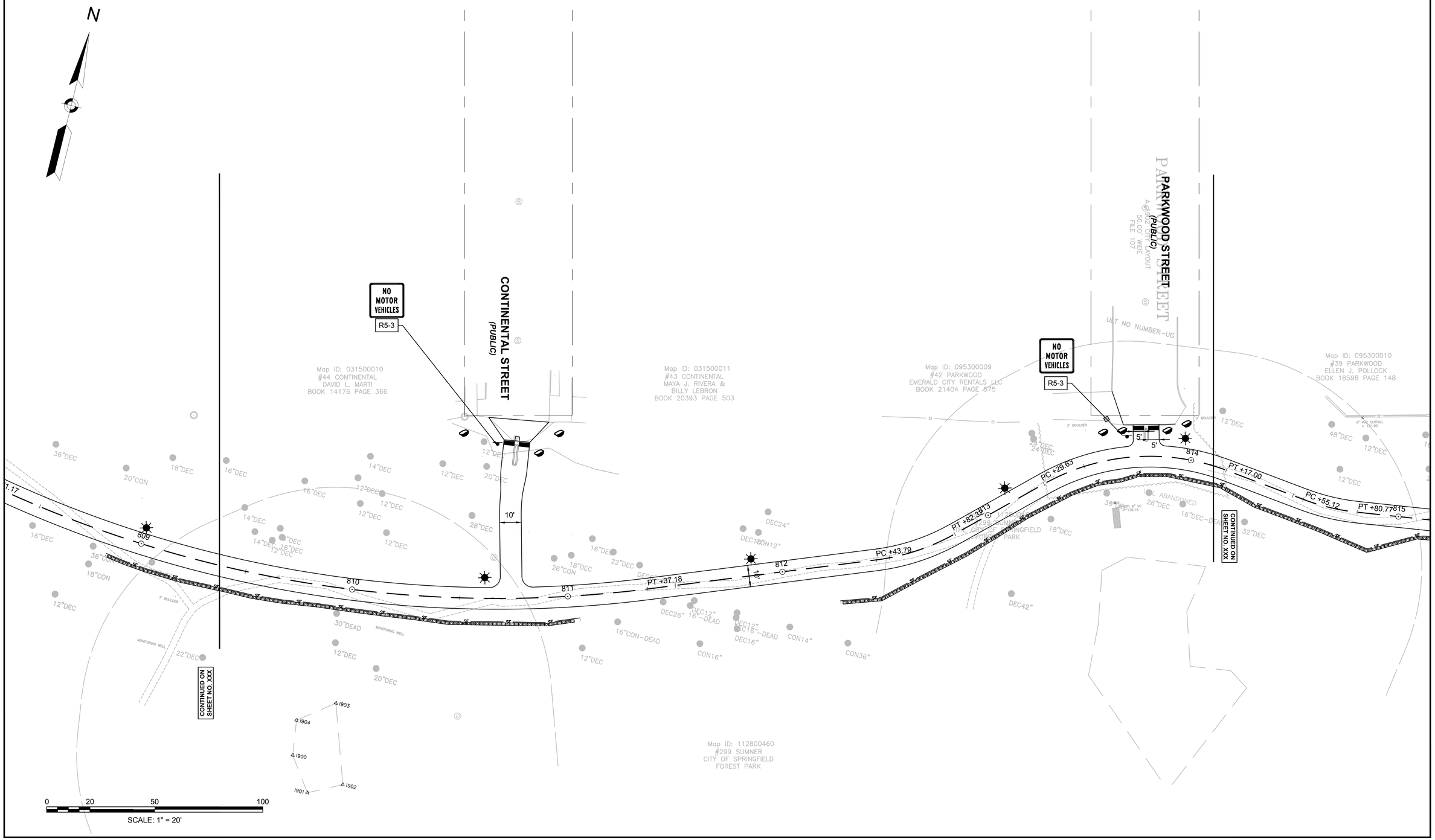
20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:26 AM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	108	XXX
PROJECT FILE NO.	608717		

PAVEMENT MARKING AND SIGNING PLANS

SEE SHEET XX FOR MARKING & SIGNING NOTES



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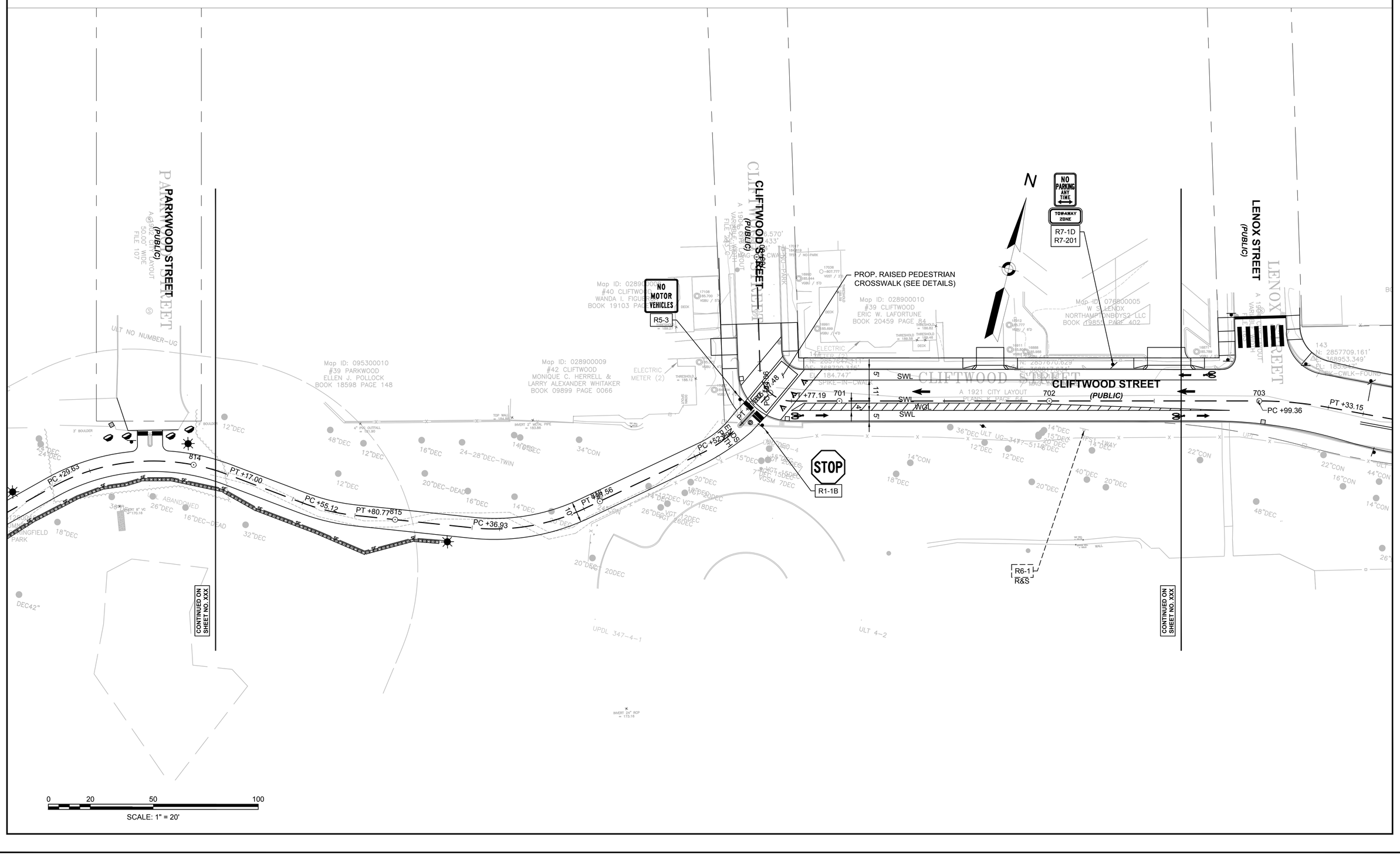
MS VIEW: -
LAYER STATE: -
20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:27 AM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	109	XXX
	PROJECT FILE NO.	608717	

PAVEMENT MARKING AND SIGNING PLANS

SEE SHEET XX FOR MARKING & SIGNING NOTES



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Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
LAYER STATE: -
MS VIEW: -

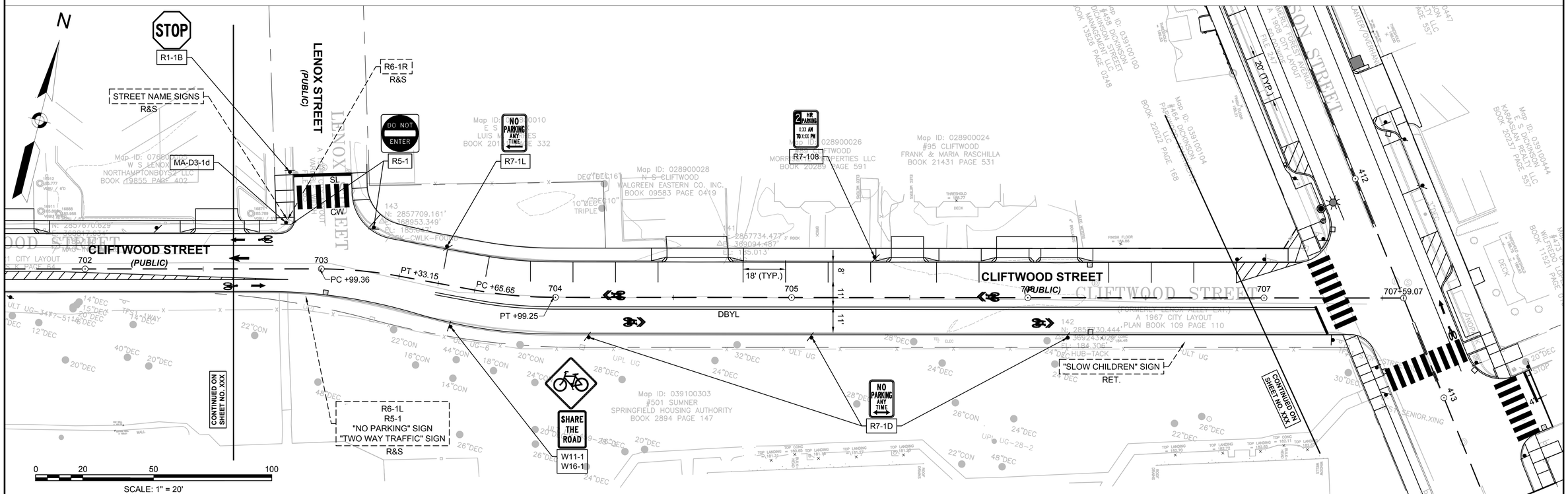
20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:27 AM

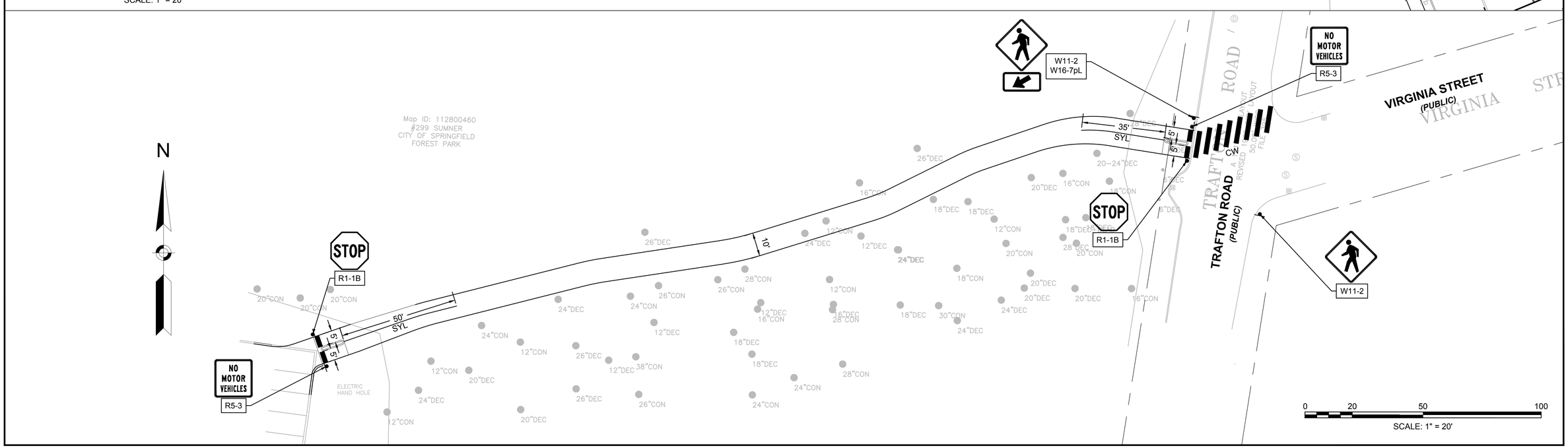
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	110	XXX
	PROJECT FILE NO.	608717	

SEE SHEET XX FOR MARKING & SIGNING NOTES

PAVEMENT MARKING AND SIGNING PLANS





File Path: J:\DWG\P2012\1457\A70\Civil\Plan\20121457A70_PVT01.dwg Layout: PVT 21 Plotted: Tue, April 03, 2018 - 10:27 AM User: mperalta
MS VIEW: - LAYER STATE: - Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB

20121457A70_PVT01.DWG Plotted on 3-Apr-2018 10:27 AM

NOTES:
HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. THE 2009 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE 1990 MDPW "STANDARD DRAWINGS FOR SIGNS AND SUPPORTS", AND ALL ADMENDMENTS WILL GOVERN.

ALL P5 SIGN POSTS SHALL BE FACTORY COATED GLOSS BLACK
(PBS) = PAINTED BOTH SIDES

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	111	XXX
PROJECT FILE NO.	608717		

TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	TEXT DIMENSIONS (in) LETTER HEIGHT	TEXT DIMENSIONS (in) VERTICAL SPACING	TEXT DIMENSIONS (in) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
R1-1	30	30	STOP	SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			15	WHITE	RED	RED	P-5 15 REQ'D	6.25	TO BE PROVIDED AT 75% DESIGN
R1-1B	18	18	STOP				4	WHITE	RED	RED	P-5 4 REQ'D	2.25	
R1-2	36	36	YIELD				10	WHITE	RED	RED	P-5 10 REQ'D	4.5	
R2-1 (30)	24	30	SPEED LIMIT 30				3	WHITE	BLACK	BLACK	P-5 3 REQ'D	5.00	
R2-1 (35)	24	30	SPEED LIMIT 35				1	WHITE	BLACK	BLACK	P-5 1 REQ'D	5.00	
R3-2	24	24					3	WHITE	RED/ BLACK	BLACK	VARIES SEE PLANS	4.00	
R3-5L	30	36	ONLY				6	WHITE	BLACK	BLACK	O'HEAD MOUNT	7.50	
R3-7L	30	30	LEFT LANE MUST TURN LEFT				3	WHITE	BLACK	BLACK	P-5 3 REQ'D	6.25	
R3-8a	48	30	ONLY ONLY ONLY				4	WHITE	BLACK	BLACK	P-5 4 REQ'D	10.00	
R3-8b	54	30	ONLY ONLY				4	WHITE	BLACK	BLACK	P-5 4 REQ'D	11.25	
R3-8c	48	30	ONLY ONLY ONLY				2	WHITE	BLACK	BLACK	P-5 2 REQ'D	10.00	
R3-8d	36	30	ONLY				2	WHITE	BLACK	BLACK	P-5 2 REQ'D	7.50	
R3-8e	36	30	ONLY				4	WHITE	BLACK	BLACK	P-5 4 REQ'D	7.50	
R3-8f	48	30	ONLY				3	WHITE	BLACK	BLACK	P-5 3 REQ'D	10.00	
R3-8g	48	30	ONLY				4	WHITE	BLACK	BLACK	P-5 4 REQ'D	10.00	
R3-8h	36	30	ONLY ONLY				2	WHITE	BLACK	BLACK	P-5 2 REQ'D	7.50	
R3-17	24	18	BIKE LANE				21	WHITE	BLACK	BLACK	P-5 21 REQ'D	3.00	

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	TEXT DIMENSIONS (in) LETTER HEIGHT	TEXT DIMENSIONS (in) VERTICAL SPACING	TEXT DIMENSIONS (in) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
R3-17bP	24	8	ENDS	SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			2	WHITE	BLACK	BLACK	MOUNTED WITH R3-17	1.33	TO BE PROVIDED AT 75% DESIGN
R4-4	36	30	BEGIN RIGHT TURN LANE YIELD TO BIKES				1	WHITE	BLACK	BLACK	P-5 1 REQ'D	7.50	
R4-7	24	30					10	WHITE	BLACK	BLACK	P-5 10 REQ'D	5.00	
R5-1	30	30	DO NOT ENTER				9	WHITE	RED	RED	P-5 9 REQ'D	6.25	
R5-3	24	24	NO MOTOR VEHICLES				6	WHITE	BLACK	BLACK	P-5 6 REQ'D	1.50	
R6-1R/L (PBS)	36	12	ONE WAY				4	BLACK	BLACK	WHITE	1 MOUNTED WITH R5-1 3 P-5 REQ'D	6.00	
R6-4	30	24					6	WHITE	BLACK	BLACK	P-5 6 REQ'D	5.00	
R7-1D	12	18	NO PARKING ANY TIME				33	WHITE	RED	RED	P-5 33 REQ'D	1.50	
R7-1L	12	18	NO PARKING ANY TIME				3	WHITE	RED	RED	P-5 3 REQ'D	1.50	
R7-1R	12	18	NO PARKING ANY TIME				4	WHITE	RED	RED	P-5 4 REQ'D	1.50	
R7-2L	12	18	NO PARKING X:XX AM TO X:XX PM				1	WHITE	RED	RED	P-5 1 REQ'D	1.50	
R7-2R	12	18	NO PARKING X:XX AM TO X:XX PM				1	WHITE	RED	RED	P-5 1 REQ'D	1.50	
R7-7D	12	18	NO PARKING BUS STOP				2	WHITE	RED	RED	P-5 2 REQ'D	1.50	
R7-8	12	18	RESERVED PARKING				2	WHITE	GREEN/ BLUE	GREEN	P-5 2 REQ'D	1.50	
R7-108 (2hr)	12	18	2 HR PARKING X:XX AM TO X:XX PM				27	WHITE	GREEN	GREEN	P-5 27 REQ'D	1.50	
R7-201	12	6	TOW-AWAY ZONE				6	WHITE	RED	RED	MOUNTED WITH R7-1	0.50	
R10-7	24	30	DO NOT BLOCK INTERSECTION				6	WHITE	BLACK	BLACK	P-5 6 REQ'D	5.00	

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NOTES:
HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. THE 2009 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE 1990 MDPW "STANDARD DRAWINGS FOR SIGNS AND SUPPORTS", AND ALL ADMENDMENTS WILL GOVERN.

ALL P5 SIGN POSTS SHALL BE FACTORY COATED GLOSS BLACK
(PBS) = PAINTED BOTH SIDES

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	112	XXX
PROJECT FILE NO.	608717		

TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	TEXT DIMENSIONS (in) LETTER HEIGHT	TEXT DIMENSIONS (in) VERTICAL SPACING	TEXT DIMENSIONS (in) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
R10-11b	24	24	NO TURN ON RED	SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (INCLUDING LATEST REVISION)			1	WHITE	BLACK	BLACK	P-5 1 REQ'D	4.00	TO BE PROVIDED AT 75% DESIGN
R10-12	30	36	LEFT TURN YIELD ON GREEN				1	WHITE	BLACK/ GREEN	BLACK	O'HEAD MOUNT	7.50	
MA-R10-12a	30	36	LEFT TURN YIELD ON FLASHING				5	WHITE	BLACK/ YELLOW	BLACK	O'HEAD MOUNT	7.50	
R10-15R	30	30	TURNING VEHICLES TO				11	WHITE	YELLOW/ BLACK	BLACK	VARIES SEE PLANS	6.25	
MA-M1-5 (83)	24	24	83				11	WHITE	BLACK	BLACK	P-5 11 REQ'D	4.00	
M3-1	24	12	NORTH				5	WHITE	BLACK	BLACK	MOUNTED WITH MA-M1-5 (83)	2.00	
M3-3	24	12	SOUTH				6	WHITE	BLACK	BLACK	MOUNTED WITH MA-M1-5 (83)	2.00	
M6-2R	21	15					1	WHITE	BLACK	BLACK	MOUNTED WITH MA-M1-5 (83)	2.19	
W2-6	36	36					6	YELLOW	BLACK	BLACK	P-5 6 REQ'D	9.00	
W11-1	36	36					11	YELLOW	BLACK	BLACK	P-5 11 REQ'D	9.00	
W11-2	36	36					16	YELLOW	BLACK	BLACK	P-5 16 REQ'D	9.00	
W14-2aR	36	8	NO OUTLET				1	YELLOW	BLACK	BLACK	MOUNTED WITH MA-D3-1b SEE PLANS	2.00	
W16-1	18	24	SHARE THE ROAD				11	YELLOW	BLACK	BLACK	MOUNTED WITH W11-1 SEE PLANS	3.00	
W16-7pL	24	12					15	FLUORE-SCENT YELLOW GREEN	BLACK	BLACK	MOUNTED WITH W11-2 SEE PLANS	2.00	
MA-D3-1a (PBS)	54	12	Continental St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	——	EACH
MA-D3-1b (PBS)	48	12	Parkwood St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	——	EACH
MA-D3-1c (PBS)	48	12	Cliftwood St	6D/4D	3 3	N/A	2	GREEN	WHITE	WHITE	P-5 2 REQ'D	——	EACH

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	TEXT DIMENSIONS (in) LETTER HEIGHT	TEXT DIMENSIONS (in) VERTICAL SPACING	TEXT DIMENSIONS (in) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
MA-D3-1d (PBS)	36	12	Lenox St	6D/4D	3 3	N/A	2	GREEN	WHITE	WHITE	P-5 2 REQ'D	——	EACH
MA-D3-1e (PBS)	42	12	Trenton St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	——	EACH
MA-D3-1f (PBS)	48	12	Sumner Ter	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	——	EACH
MA-D3-1g (PBS)	48	12	Sumner Ave	6D/4D	3 3	N/A	3	GREEN	WHITE	WHITE	P-5 3 REQ'D	——	EACH
MA-D3-1h (PBS)	42	12	Oakland St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	——	EACH
MA-D3-1i (PBS)	48	12	Kenwood Ter	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	——	EACH
MA-D3-1j (PBS)	48	12	Beaumont St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	——	EACH
MA-D3-1k (PBS)	48	12	Dickinson St	6D/4D	3 3	N/A	4	GREEN	WHITE	WHITE	P-5 4 REQ'D	——	EACH
MA-D3-1l (PBS)	48	12	Belmont Ave	6D/4D	3 3	N/A	2	GREEN	WHITE	WHITE	P-5 2 REQ'D	——	EACH
MA-D3-1m (PBS)	42	12	Venture St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	——	EACH
MA-D3-1n (PBS)	42	12	Ormond St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	——	EACH
MA-D3-1o (PBS)	48	12	Burlington St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	——	EACH
MA-D3-1p (PBS)	48	12	Grenada Ter	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	——	EACH
MA-D3-1q (PBS)	42	12	Sorrento St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	——	EACH
MA-D3-1r (PBS)	42	12	Pomona St	6D/4D	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	——	EACH
D1-1dA	60	18	Burlington St ↗	6C	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	7.50	TO BE PROVIDED AT 75% DESIGN
D1-1dB	54	18	Belmont Ave ↗	6C	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	6.75	

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NOTES:
HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. THE 2009 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE 1990 MDPW "STANDARD DRAWINGS FOR SIGNS AND SUPPORTS", AND ALL ADMENDMENTS WILL GOVERN.

ALL P5 SIGN POSTS SHALL BE FACTORY COATED GLOSS BLACK
ITEM 841.1 - 5" TUBULAR POSTS SHALL BE FACTORY COATED GLOSS BLACK
(PBS) = PAINTED BOTH SIDES

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	113	XXX
PROJECT FILE NO.	608717		

TRAFFIC SIGN SUMMARY

IDENTIFI-CATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	TEXT DIMENSIONS (in) LETTER HEIGHT	TEXT DIMENSIONS (in) VERTICAL SPACING	TEXT DIMENSIONS (in) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
D1-1dC	72	18	Commonwealth Ave ↗	6C	3 3	N/A	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	9.75	TO BE PROVIDED AT 75% DESIGN
D6-1	66	60	83 NORTH Longmeadow W. Springfield →	7/6 C 8/6 C 8/6 C	3 4 4 6 5	RMO 18"X18" 8"X18" @ 0 ANGLE	3	GREEN	WHITE	WHITE	ITEM 841.1 (3) - 5" TUBULAR POSTS	27.50	
D8-1	54	48	83 SOUTH Somers, CT ←	7/6 C 8/6 C	3 5 6 6	RMO 18"X18" 8"X18" @ 180 ANGLE	2	GREEN	WHITE	WHITE	MOUNTED WITH D6-1	20.00	
D6-2	66	66	NORTH 83 TO 91 Longmeadow W. Springfield ←	7/6 C 8/6 C 8/6 C	3 4 3 4 3	RMO 18"X18" 8"X18" @ 180 ANGLE	2	GREEN	WHITE	WHITE	ITEM 841.1 (2) - 5" TUBULAR POSTS	30.25	
D8-2	54	48	83 SOUTH Somers, CT →	7/6 C 8/6 C	3 5 6 6	RMO 18"X18" 8"X18" @ 0 ANGLE	1	GREEN	WHITE	WHITE	MOUNTED WITH D6-2	20.00	
D6-3	66	60	TO 83 NORTH Longmeadow Springfield NEXT RIGHT	7/6 C 8/6 C 8/6 C 6 C	4 4 6 4 3	RMO 18"X18"	3	GREEN	WHITE	WHITE	ITEM 841.1 (2) - 5" TUBULAR POSTS	27.50	
D8-3	60	48	TO 83 SOUTH Somers, CT NEXT LEFT	7/6 C 8/6 C 6 C	5 5 4 4	RMO 18"X18"	2	GREEN	WHITE	WHITE	MOUNTED WITH D6-3	20.00	
D6-4	66	60	83 NORTH Longmeadow W. Springfield NEXT LEFT	7/6 C 8/6 C 8/6 C 6 C	3 4 6 5 3	RMO 18"X18"	2	GREEN	WHITE	WHITE	ITEM 841.1 (2) - 5" TUBULAR POSTS	27.50	
D8-4	48	60	83 NORTH Longmeadow ←	7/6 C 8/6 C	3 5 6 6	RMO 18"X18" 8"X18" @ 180 ANGLE	2	GREEN	WHITE	WHITE	ITEM 841.4 (2) - 4" TUBULAR POSTS	20.00	
D6-5	72	60	NORTH 83 TO 91 ↑ Longmeadow W. Springfield	7/6 C 8/6 C 8/6 C	4 3 5 3 5	RMO 18"X18" 8"X18" @ 90 ANGLE	1	GREEN	WHITE	WHITE	ITEM 841.1 5" TUBULAR POST	30.00	
D1-2	60	24	Sumner Ave ↑ Belmont Ave →	6 C 6 C	3 3 3	6"X9" @ 90 ANGLE 6"X9" @ 0 ANGLE	1	GREEN	WHITE	WHITE	MOUNTED WITH D6-5	10.00	
D6-6	72	60	83 SOUTH E. Longmeadow Somers, CT →	7/6 C 8/6 C 8/6 C	4 5 6 6 5	RMO 18"X18" 8"X18" @ 0 ANGLE	1	GREEN	WHITE	WHITE	ITEM 841.1 5" TUBULAR POST	30.00	
D6-7	72	60	83 SOUTH E. Longmeadow Somers, CT SECOND RIGHT	7/6 C 8/6 C 8/6 C 6 C	4 5 6 4 4	RMO 18"X18"	1	GREEN	WHITE	WHITE	ITEM 841.1 5" TUBULAR POST	30.00	
D1-1B	60	24	Dickinson St → NEXT RIGHT	6 C	4 4 4	6"X9" @ 0 ANGLE	1	GREEN	WHITE	WHITE	MOUNTED WITH D6-7	10.00	

IDENTIFI-CATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	TEXT DIMENSIONS (in) LETTER HEIGHT	TEXT DIMENSIONS (in) VERTICAL SPACING	TEXT DIMENSIONS (in) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
D1-3	60	36	83 Sumner Ave ↑ Dickinson St → Belmont Ave ↱	6 C 6 C 6 C	3 3 3 3	6"X9" @ 90 ANGLE 6"X9" @ 0 ANGLE 6"X9" @ 90/0 ANGLE	1	GREEN	WHITE	WHITE	P-5 2 REQ'D	15.00	TO BE PROVIDED AT 75% DESIGN
D1-1C	54	24	TO Sumner Ave NEXT RIGHT	6 C 6 C	4 4 3	——	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	9.00	

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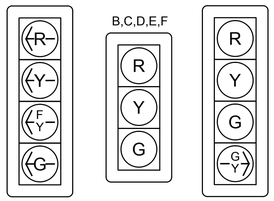
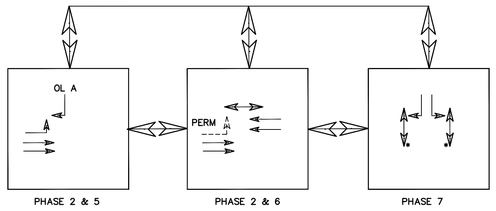
A B,C,D,E,F G



PROPOSED SIGNAL INDICATIONS

ALL SIGNAL HEADS SHALL BE RIGID MOUNTED & EQUIPPED WITH ±5" LOUVERED BACKPLATES WITH 2" YELLOW REFLECTIVE TAPE BORDERS. THE REFLECTIVE TAPE SHALL NOT EXTEND INTO OR COVER ANY PART OF THE LOUVERED AREA.

*****ALL PROPOSED MAST ARMS, SIGNAL POSTS, BASES, BACKPLATES, AND BRACKETS SHALL BE FACTORY COATED BLACK*****



* UPON PEDESTRIAN PUSH BUTTON ACTIVATION

P1-P6



ALL COUNTDOWN PEDESTRIAN SIGNAL DISPLAYS SHALL BE EQUIPPED W/L.E.D. MODULES (16 INCH DISPLAY).



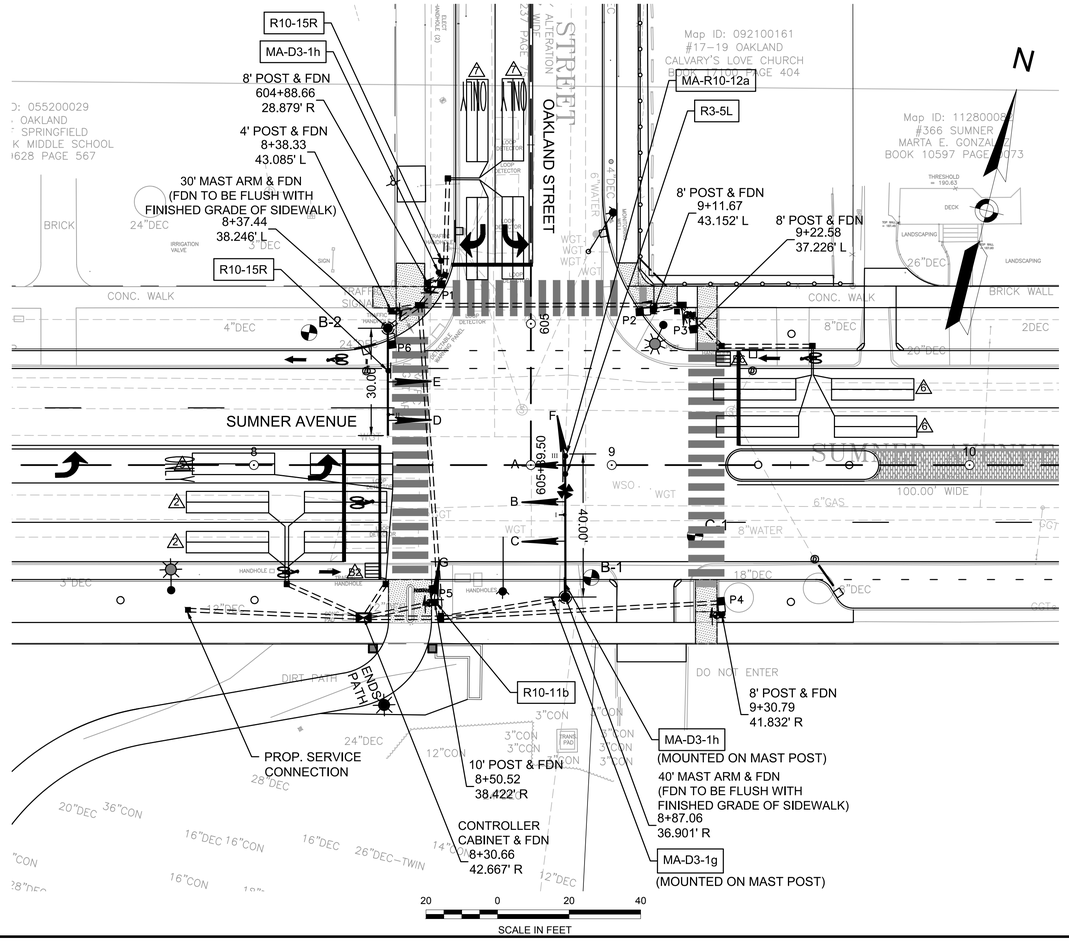
PROPOSED R10-3E

TO BE MOUNTED WITH EACH PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL.

ACCESSIBLE PEDESTRIAN SIGNALS (APS):

ALL PROPOSED ACCESSIBLE PEDESTRIAN SIGNALS MUST FULLY COMPLY WITH THE UNITED STATES ACCESS BOARD PROWAG SUPPLEMENTAL TECHNICAL REQUIREMENTS UNDER CHAPTER 4. THIS INCLUDES OPERABLE PARTS (R403), CLEAR SPACES (R404), AND REACH RANGES (R406) AS RELATES TO ACCESSIBLE PEDESTRIAN SIGNALS AND PEDESTRIAN PUSH BUTTONS.

PREFERENTIAL PHASE SEQUENCE



SIGNAL SEQUENCE & TIMING

	DIRECTION	HOUSING	Ø/OL	PHASE 2			PHASE 5			PHASE 6			PHASE 7			FLASH
				PREEMPTION I			PREEMPTION I			PREEMPTION II			PREEMPTION III			
				1	2	3	7	8	9	10	11	12	13	14	15	
MINIMUM GREEN				12			5			12			8			
PASSAGE TIME				2			2			2			2			
MAXIMUM I				76			13			58			15.5			
MAXIMUM II				70			14			51			21.5			
YELLOW CLEAR					3.5			3.5			3.5			3.5		
RED CLEAR						1.5			1.5			1.5			2	
WALK										7			5			
PED CLEAR											19	3		13	3	
SUMNER AVE	EB L	A	5	FY	Y	R	G	Y	R	R	R	R	R	R	R	FR
SUMNER AVE	EB	B,C	2	G	Y	R	R	R	R	R	R	R	R	R	R	FY
SUMNER AVE	WB	D,E	6	R	R	R	R	R	R	G	Y	R	R	R	R	FY
OAKLAND ST	SB L	F	7	R	R	R	R	R	R	R	R	R	G	Y	R	FR
OAKLAND ST	SB R	G	7/A	R	R	R	R	G/R	Y/R	R	R	R	G	Y	R	FR
PEDESTRIAN			UPON PUSHBUTTON ACTUATION													
	NORTH	P1,P2		DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	OUT
	WEST	P5,P6		DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
	EAST	P3,P4		DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
DETECTORS				NON–LOCK			NON–LOCK			NON–LOCK			NON–LOCK			
RECALL				SOFT			OFF			SOFT			OFF			
DUAL ENTRY				ON			ON			ON			ON			
FLASHING OPERATION PER MUTCD SEC. 4D-28				PERM			OL A									

* UPON PEDESTRIAN PUSH BUTTON ACTIVATION

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	114	XXX
PROJECT FILE NO.	608717		

TRAFFIC SIGNAL PLAN
LOCATION 1

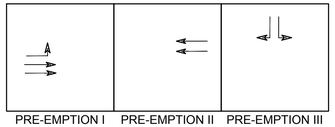
LOOP DETECTORS

KEY	LOOPS	SIZE	TURNS	OPERATION	DELAY	PHASE	CONNECTION
A	4	6'X23'	2-4-2	PRESENCE	0 SEC.	2	PARALLEL
A2	1	4'X4'	1-2-2-1	PRESENCE	0 SEC.	2	PARALLEL
A5	2	6'X23'	2-4-2	PRESENCE	0 SEC.	5	PARALLEL
A6	4	6'X23'	2-4-2	PRESENCE	0 SEC.	6	PARALLEL
A6	1	4'X4'	1-2-2-1	PRESENCE	0 SEC.	6	PARALLEL
A7	4	6'X23'	2-4-2	PRESENCE	0 SEC.	7	PARALLEL

MAJOR ITEMS REQUIRED

PAY ITEM	QUANTITY	ITEM
811.31	6	PULL BOX 12" X 12"
811.32	3	PULL BOX 13" X 24"
816.01	1	SERVICE CONNECTION
	1	SIGNAL POST & BASE - 4' INCL FOUNDATION
	4	SIGNAL POST & BASE STANDARD - 8' INCL FOUNDATION
	1	SIGNAL POST & BASE STANDARD - 10' INCL FOUNDATION
	1	30' MAST ARM - STEEL, INCL BASE & FOUNDATION
	1	40' MAST ARM - STEEL, INCL BASE & FOUNDATION
	5	SIGNAL HEAD 1 WAY - 3 SECTION 12" LED LENS
	2	SIGNAL HEAD 1 WAY - 4 SECTION 12" LED LENS
	6	16" LED PEDESTRIAN SIGNAL HEAD
	1	TRAFFIC SIGNAL CONTROLLER - TYPE 8DW, INCLUDING BASE MOUNTED CABINET NEMA TS2 TYPE 1
	6	ACCESSIBLE PEDESTRIAN SIGNAL WITH SIGN AND SADDLE
	2	DUAL-CHANNEL INDUCTIVE LOOP DETECTOR AMPLIFIER
	2	4 FT X 4 FT DOUBLE QUADRUPOLE WIRE LOOP
	14	6 FT X 23 FT STANDARD QUADRUPOLE WIRE LOOP
	3	SINGLE CHANNEL PREEMPTION DETECTOR & CABLE
	1	4 CHANNEL OPTICAL SIGNAL PROCESSOR
	1	PREEMPTION CARD RACK AND HARNESS
	1	PREEMPTION CONFIRMATION STROBE
	1	GPS CLOCK
		PLUS ALL WIRE, CABLE, MOUNTING HARDWARE, EQUIPMENT & MATERIALS NECESSARY TO COMPLETE THE INSTALLATION

PHASE 2+5 PHASE 6 PHASE 7



PRE-EMPTION I PRE-EMPTION II PRE-EMPTION III

PRE-EMPTION

EMERGENCY VEHICLE PRE-EMPTION PHASING AND PRIORITY NOTES:

1. EMERGENCY VEHICLE PRE-EMPTION SIGNALS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.
2. IN RESPONSE TO A PRE-EMPTION SIGNAL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR D1 (OR D2, D3, D4) THE CONTROLLER SHALL HOLD OR ADVANCE TO AND HOLD IN EMERGENCY VEHICLE PRE-EMPTION PHASE #1 (OR #2, #3, #4) GREEN FOR A MINIMUM OF TEN (10) SECONDS OR UNTIL PRE-EMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME PRE-EMPTION PHASE CLEARANCE (4 SECONDS: YELLOW AND 1 SECOND: ALL RED) AND SERVICE EMERGENCY VEHICLE PRE-EMPTION PHASE #2 (OR #1) IF NECESSARY, THEN TIME PHASE PRE-EMPTION CLEARANCE AND RESUME NORMAL SIGNAL OPERATION. EMERGENCY VEHICLE PRE-EMPTION PHASE #3 AND #4 SHALL BE SIMILARLY SERVED.
3. MINIMUM GREEN, NORMAL VEHICLE CLEARANCE, SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.
4. PREEMPTION STROBE SHALL BE ILLUMINATED WHENEVER ANY EMERGENCY VEHICLE PRE-EMPTION GREEN IS ON.

LEGEND

- PROPOSED SPAN WIRE & POLE
- PROPOSED MAST ARM & POLE
- PROPOSED SIGNAL POST
- A PROPOSED SIGNAL HEAD
- B PROPOSED OPTICALLY PROGRAMMED HEAD
- P1 PROPOSED PEDESTRIAN HEAD
- PROPOSED PEDESTRIAN PUSH BUTTON
- PROPOSED 12X12 PULL BOX
- PROPOSED 13X24X36 HAND HOLE
- PROPOSED 3" PVC CONDUIT TYPE NM
- PROPOSED CONTROLLER CABINET
- PROPOSED CONTROLLER CABINET W/CONC PAD
- PROPOSED CONTROLLER CABINET POLE MOUNTED
- DETECTOR KEY
- PROPOSED VIDEO DETECTOR
- III PROPOSED PREEMPTION OPTICAL DETECTOR
- PROPOSED PREEMPTION CONFIRMATION STROBE
- VIDEO DETECTION ZONE
- LOOP DETECTOR

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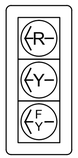
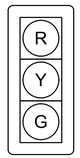


B,C,D,E,H



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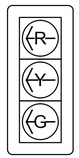

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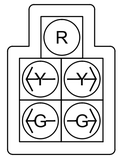

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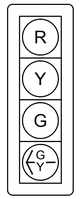
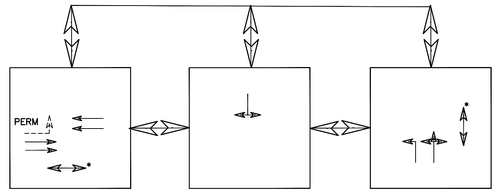


PROPOSED SIGNAL INDICATIONS

ALL SIGNAL HEADS SHALL BE RIGID MOUNTED & EQUIPPED WITH ±5" LOUVERED BACKPLATES WITH 2" YELLOW REFLECTIVE TAPE BORDERS. THE REFLECTIVE TAPE SHALL NOT EXTEND INTO OR COVER ANY PART OF THE LOUVERED AREA.

*****ALL PROPOSED MAST ARMS, SIGNAL POSTS, BASES, BACKPLATES, AND BRACKETS SHALL BE FACTORY COATED BLACK*****



* UPON PEDESTRIAN PUSH BUTTON ACTIVATION

X



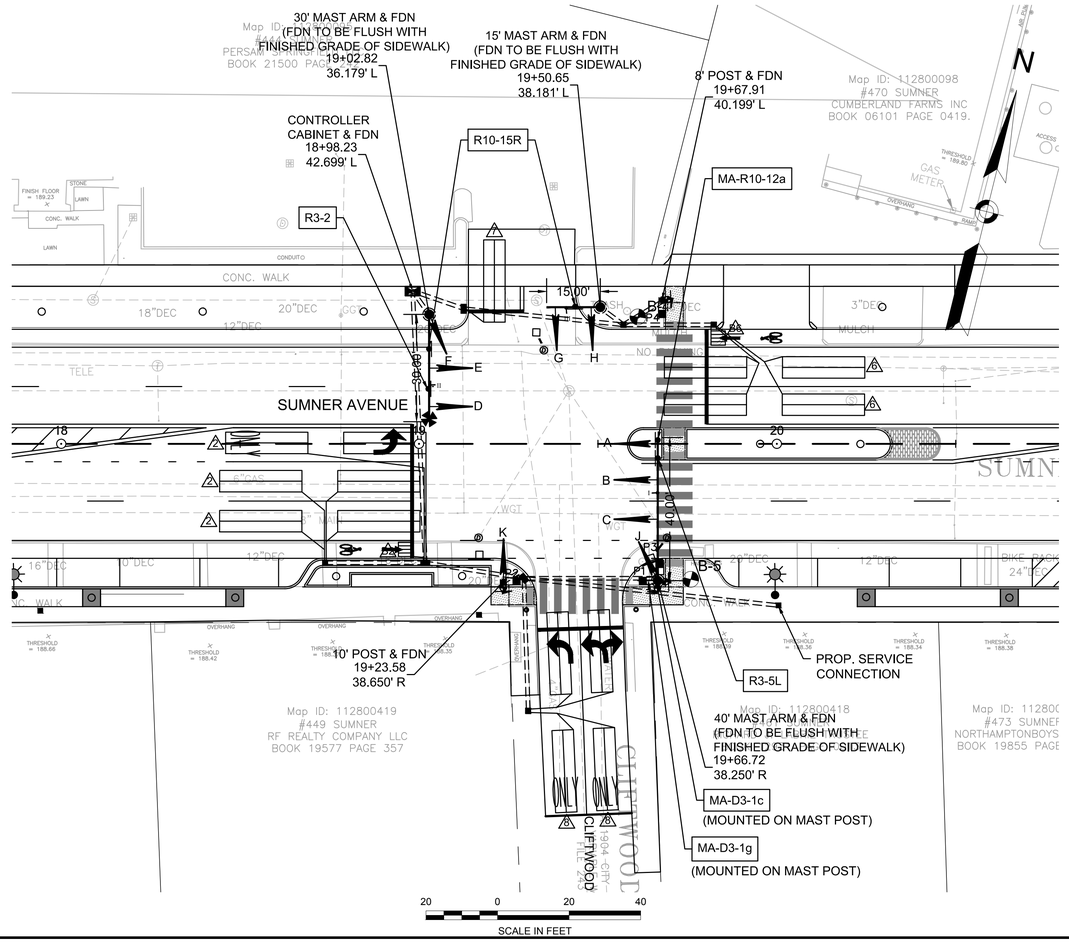
ALL COUNTDOWN PEDESTRIAN SIGNAL DISPLAYS SHALL BE EQUIPPED W/L.E.D. MODULES (16 INCH DISPLAY).



PROPOSED R10-3E

TO BE MOUNTED WITH EACH PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL.

PREFERENTIAL PHASE SEQUENCE



SIGNAL SEQUENCE & TIMING

	DIRECTION	HOUSING	Ø/OL	PHASE 2			PHASE 6			PHASE 7			PHASE 8			FLASH
				PREEMPTION I			PREEMPTION II						PREEMPTION III			
				1	2	3	7	8	9	4	5	6	10	11	12	
MINIMUM GREEN				12			12			5			8			
PASSAGE TIME				2			2			2			2			
MAXIMUM I				55			55			5			27			
MAXIMUM II				62			62			5			20			
YELLOW CLEAR					3.5			3.5			3.5			3.5		
RED CLEAR						1			1			2			1.5	
WALK				7									4			
PED CLEAR								8	3					18	3	
SUMNER AVE	EB L	A	2	FY	Y	R	R	R	R	R	R	R	R	R	R	FY
SUMNER AVE	EB	B,C	2	G	Y	R	R	R	R	R	R	R	R	R	R	FY
SUMNER AVE	WB	D,E	6	R	R	R	G	Y	R	R	R	R	R	R	R	FY
PRIVATE DRIVE	SB L/R	K	7	R	R	R	R	R	R	G	KY	Y	R	R	R	FR
PRIVATE DRIVE	SB L	J	7	R	R	R	R	R	R	G	Y	R	R	R	R	FR
CLIFTWOOD ST	NB L	F	8	R	R	R	R	R	R	R	R	R	G	Y	R	FR
CLIFTWOOD ST	NB T/L	G	8	R	R	R	R	R	R	R	R	R	G	KY	R	FR
CLIFTWOOD ST	NB T/R	H	8	R	R	R	R	R	R	R	R	R	G	Y	R	FR
PEDESTRIAN			UPON PUSHBUTTON ACTIVATION													
	EAST	P3,P4		DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
	SOUTH	P1,P2		DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	OUT
DETECTORS				NON–LOCK			NON–LOCK			NON–LOCK			NON–LOCK			
RECALL				SOFT			SOFT			OFF			OFF			
DUAL ENTRY				ON			ON			ON			ON			
FLASHING OPERATION PER MUTCD SEC. 4D-28				PERM												

* UPON PEDESTRIAN PUSH BUTTON ACTIVATION

MAJOR ITEMS REQUIRED

PAY ITEM	QUANTITY	ITEM
811.31	4	PULL BOX 12" X 12"
811.32	3	PULL BOX 13" X 24"
815.1	1	SERVICE CONNECTION
	1	SIGNAL POST & BASE STANDARD - 8' INCL FOUNDATION
	1	SIGNAL POST & BASE STANDARD - 10' INCL FOUNDATION
	1	15' MAST ARM - STEEL, INCL BASE & FOUNDATION
	1	30' MAST ARM - STEEL, INCL BASE & FOUNDATION
	1	40' MAST ARM - STEEL, INCL BASE & FOUNDATION
	8	SIGNAL HEAD 1 WAY - 3 SECTION 12" LED LENS
	1	4 SECTION 12" LED BIMODAL LENS
	1	SIGNAL HEAD 1 WAY - 5 SECTION DOGHOUSE 12" LED LENS
	4	16" LED PEDESTRIAN SIGNAL HEAD
	1	TRAFFIC SIGNAL CONTROLLER - TYPE 8DW, INCLUDING BASE MOUNTED CABINET NEMA TS2 TYPE 1
	4	ACCESSIBLE PEDESTRIAN SIGNAL WITH SIGN AND SADDLE
	2	DUAL-CHANNEL INDUCTIVE LOOP DETECTOR AMPLIFIER
	2	4 FT X 4 FT DOUBLE QUADRUPOLE WIRE LOOP
	15	6 FT X 23 FT STANDARD QUADRUPOLE WIRE LOOP
	3	SINGLE CHANNEL PREEMPTION DETECTOR & CABLE
	1	4 CHANNEL OPTICAL SIGNAL PROCESSOR
	1	PREEMPTION CARD RACK AND HARNESS
	1	PREEMPTION CONFIRMATION STROBE
	1	GPS CLOCK
		PLUS ALL WIRE, CABLE, MOUNTING HARDWARE, EQUIPMENT & MATERIALS NECESSARY TO COMPLETE THE INSTALLATION

ACCESSIBLE PEDESTRIAN SIGNALS (APS):

ALL PROPOSED ACCESSIBLE PEDESTRIAN SIGNALS MUST FULLY COMPLY WITH THE UNITED STATES ACCESS BOARD PROWAG SUPPLEMENTAL TECHNICAL REQUIREMENTS UNDER CHAPTER 4. THIS INCLUDES OPERABLE PARTS (R403), CLEAR SPACES (R404), AND REACH RANGES (R406) AS RELATES TO ACCESSIBLE PEDESTRIAN SIGNALS AND PEDESTRIAN PUSH BUTTONS.

EMERGENCY VEHICLE PRE-EMPTION PHASING AND PRIORITY NOTES:

1. EMERGENCY VEHICLE PRE-EMPTION SIGNALS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.
2. IN RESPONSE TO A PRE-EMPTION SIGNAL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR D1 (OR D2, D3, D4) THE CONTROLLER SHALL HOLD OR ADVANCE TO AND HOLD IN EMERGENCY VEHICLE PRE-EMPTION PHASE #1 (OR #2, #3, #4) GREEN FOR A MINIMUM OF TEN (10) SECONDS OR UNTIL PRE-EMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME PRE-EMPTION PHASE CLEARANCE (4 SECONDS: YELLOW AND 1 SECOND: ALL RED) AND SERVICE EMERGENCY VEHICLE PRE-EMPTION PHASE #2 (OR #1) IF NECESSARY, THEN TIME PHASE PRE-EMPTION CLEARANCE AND RESUME NORMAL SIGNAL OPERATION. EMERGENCY VEHICLE PRE-EMPTION PHASE #3 AND #4 SHALL BE SIMILARLY SERVED.
3. MINIMUM GREEN, NORMAL VEHICLE CLEARANCE, SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.
4. PREEMPTION STROBE SHALL BE ILLUMINATED WHENEVER ANY EMERGENCY VEHICLE PRE-EMPTION GREEN IS ON.

LEGEND

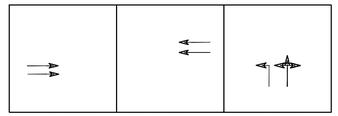
- PROPOSED SPAN WIRE & POLE
- PROPOSED MAST ARM & POLE
- PROPOSED SIGNAL POST
- A PROPOSED SIGNAL HEAD
- B PROPOSED OPTICALLY PROGRAMMED HEAD
- P1 PROPOSED PEDESTRIAN HEAD
- PROPOSED PEDESTRIAN PUSH BUTTON
- PROPOSED 12X12 PULL BOX
- PROPOSED 13X24X36 HAND HOLE
- PROPOSED 3" PVC CONDUIT TYPE NM
- PROPOSED CONTROLLER CABINET
- PROPOSED CONTROLLER CABINET W/CONC PAD
- PROPOSED CONTROLLER CABINET POLE MOUNTED
- DETECTOR KEY
- PROPOSED VIDEO DETECTOR
- III PROPOSED PREEMPTION OPTICAL DETECTOR
- PROPOSED PREEMPTION CONFIRMATION STROBE
- VIDEO DETECTION ZONE
- LOOP DETECTOR

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	115	XXX
PROJECT FILE NO.	608717		

TRAFFIC SIGNAL PLAN
LOCATION 2

PHASE 2 PHASE 6 PHASE 8



PRE-EMPTION I PRE-EMPTION II PRE-EMPTION III

PRE-EMPTION

LOOP DETECTORS

KEY	LOOPS	SIZE	TURNS	OPERATION	DELAY	PHASE	CONNECTION
2	6	6'X23'	2-4-2	PRESENCE	0 SEC.	2	PARALLEL
2S	1	4'X4'	1-2-2-1	PRESENCE	0 SEC.	2	PARALLEL
6	4	6'X23'	2-4-2	PRESENCE	0 SEC.	6	PARALLEL
6S	1	4'X4'	1-2-2-1	PRESENCE	0 SEC.	6	PARALLEL
7	1	6'X23'	2-4-2	PRESENCE	0 SEC.	7	PARALLEL
8	4	6'X23'	2-4-2	PRESENCE	0 SEC.	8	PARALLEL

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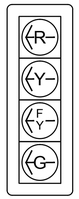
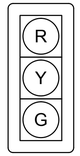


A,B,C,E,F,J,K,N,O



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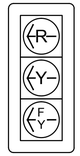


PROPOSED SIGNAL INDICATIONS

ALL SIGNAL HEADS SHALL BE RIGID MOUNTED & EQUIPPED WITH ±5" LOUVERED BACKPLATES WITH 2" YELLOW REFLECTIVE TAPE BORDERS. THE REFLECTIVE TAPE SHALL NOT EXTEND INTO OR COVER ANY PART OF THE LOUVERED AREA.

*****ALL PROPOSED MAST ARMS, SIGNAL POSTS, BASES, BACKPLATES, AND BRACKETS SHALL BE FACTORY COATED BLACK*****

P1–P8



ALL COUNTDOWN PEDESTRIAN SIGNAL DISPLAYS SHALL BE EQUIPPED W/L.E.D. MODULES (16 INCH DISPLAY).

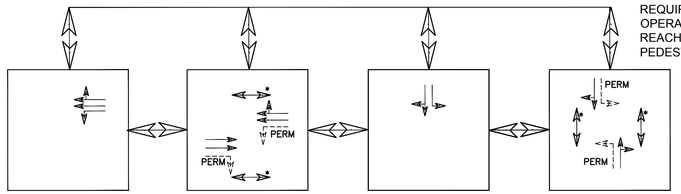


PROPOSED R10-3E

TO BE MOUNTED WITH EACH PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL.

ACCESSIBLE PEDESTRIAN SIGNALS (APS):

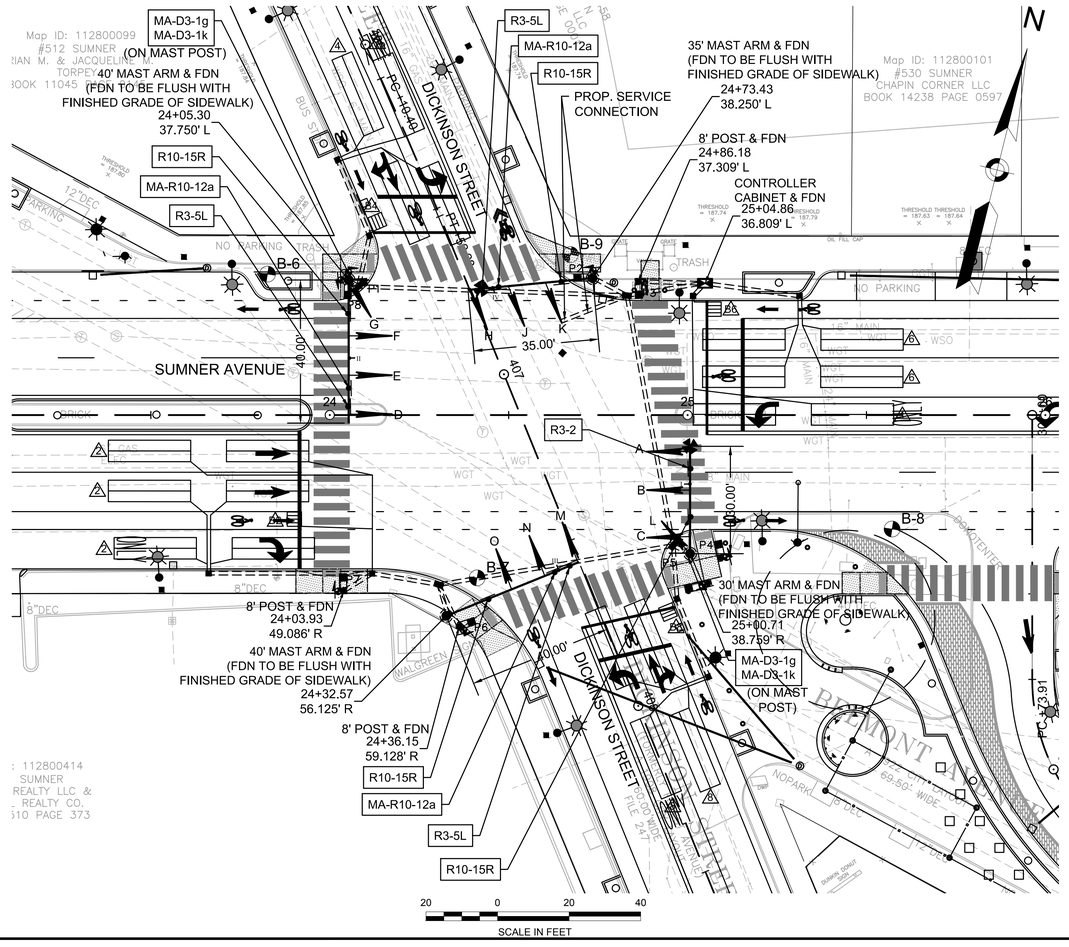
ALL PROPOSED ACCESSIBLE PEDESTRIAN SIGNALS MUST FULLY COMPLY WITH THE UNITED STATES ACCESS BOARD PROWAG SUPPLEMENTAL TECHNICAL REQUIREMENTS UNDER CHAPTER 4. THIS INCLUDES OPERABLE PARTS (R403), CLEAR SPACES (R404), AND REACH RANGES (R406) AS RELATES TO ACCESSIBLE PEDESTRIAN SIGNALS AND PEDESTRIAN PUSH BUTTONS.



PHASE 1 & 6 | PHASE 2 & 6 | PHASE 4 & 7 | PHASE 4 & 8

* UPON PEDESTRIAN PUSH BUTTON ACTIVATION

PREFERENTIAL PHASE SEQUENCE



SIGNAL SEQUENCE & TIMING

	DIRECTION	HOUSING	Ø/OL	PHASE 1			PHASE 2			PHASE 4			PHASE 6			PHASE 7			PHASE 8			FLASH
							PREEMPTION I			PREEMPTION III			PREEMPTION II						PREEMPTION IV			
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
MINIMUM GREEN				5			12			8			12			5			8			
PASSAGE TIME				2			2			2			2			2			2			
MAXIMUM I				5			46.5			41			55.5			7			25			
MAXIMUM II				5			42			44			51			11.5			25			
YELLOW CLEAR					3			3.5			3.5			3.5			3.5			3.5		
RED CLEAR						1			1.5			1.5			1.5			1			1.5	
WALK							7			5			7						5			
PED CLEAR								14	3		22	3		14	3					22	3	
SUMNER AVE	EB	A,B,C	2	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	FY
SUMNER AVE	WB	E,F	6	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	FY
SUMNER AVE	WB L	D	1	~~G~~	~~Y~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~FY~~	~~Y~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~FR~~
DICKINSON ST	SB	N,O	4	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	FR
DICKINSON ST	SB L	M,L	7	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~FY~~	~~Y~~	~~R~~	~~R~~	~~R~~	~~R~~	~~G~~	~~Y~~	~~R~~	~~R~~	~~R~~	~~R~~	FR
DICKINSON ST	NB L	G,H	8	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~FY~~	~~Y~~	~~R~~	~~FR~~
DICKINSON ST	NB	J,K	8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	FR
PEDESTRIAN	NORTH	P1,P2	UPON PUSHBUTTON ACTIVATION	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	OUT
PEDESTRIAN	EAST	P3,P4		DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
PEDESTRIAN	SOUTH	P5,P6		DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT
PEDESTRIAN	WEST	P7,P8		DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT
DETECTORS				NON–LOCK			NON–LOCK			NON–LOCK			NON–LOCK			NON–LOCK			NON–LOCK			
RECALL				OFF			SOFT			OFF			SOFT			OFF			OFF			
DUAL ENTRY				ON			ON			ON			ON			ON			ON			
FLASHING OPERATION PER MUTCD SEC. 4D-28																						

* UPON PEDESTRIAN PUSH BUTTON ACTIVATION

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	116	XXX
PROJECT FILE NO.	608717		

TRAFFIC SIGNAL PLAN
LOCATION 3

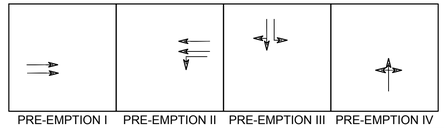
LOOP DETECTORS

KEY	LOOPS	SIZE	TURNS	OPERATION	DELAY	PHASE	CONNECTION
A	6	6'X23'	2-4-2	PRESENCE	0 SEC.	2	PARALLEL
AA	1	4'X4'	1-2-2-1	PRESENCE	0 SEC.	2	PARALLEL
B	4	6'X23'	2-4-2	PRESENCE	0 SEC.	6	PARALLEL
BB	1	4'X4'	1-2-2-1	PRESENCE	0 SEC.	6	PARALLEL
C	1	6'X23'	2-4-2	PRESENCE	0 SEC.	7	PARALLEL
D	4	6'X23'	2-4-2	PRESENCE	0 SEC.	8	PARALLEL

MAJOR ITEMS REQUIRED

PAY ITEM	QUANTITY	ITEM
811.31	8	PULL BOX 12" X 12"
811.32	4	PULL BOX 13" X 24"
816.02	1	SERVICE CONNECTION
	3	SIGNAL POST & BASE STANDARD - 8' INCL FOUNDATION
	1	30' MAST ARM - STEEL, INCL BASE & FOUNDATION
	1	35' MAST ARM - STEEL, INCL BASE & FOUNDATION
	2	40' MAST ARM - STEEL, INCL BASE & FOUNDATION
	11	SIGNAL HEAD 1 WAY - 3 SECTION 12" LED LENS
	3	SIGNAL HEAD 1 WAY - 4 SECTION 12" LED LENS
	8	16" LED PEDESTRIAN SIGNAL HEAD
	1	TRAFFIC SIGNAL CONTROLLER - TYPE 8DW, INCLUDING BASE MOUNTED CABINET NEMA TS2 TYPE 1
	8	ACCESSIBLE PEDESTRIAN SIGNAL WITH SIGN AND SADDLE
	3	DUAL-CHANNEL INDUCTIVE LOOP DETECTOR AMPLIFIER
	4	4 FT X 4 FT DOUBLE QUADRUPOLE WIRE LOOP
	20	6 FT X 23 FT STANDARD QUADRUPOLE WIRE LOOP
	4	SINGLE CHANNEL PREEMPTION DETECTOR & CABLE
	1	4 CHANNEL OPTICAL SIGNAL PROCESSOR
	1	PREEMPTION CARD RACK AND HARNESS
	2	PREEMPTION CONFIRMATION STROBE
	1	GPS CLOCK
		PLUS ALL WIRE, CABLE, MOUNTING HARDWARE, EQUIPMENT & MATERIALS NECESSARY TO COMPLETE THE INSTALLATION

PHASE 2 | PHASE 1+6 | PHASE 4+7 | PHASE 8



PRE-EMPTION I | PRE-EMPTION II | PRE-EMPTION III | PRE-EMPTION IV

PRE-EMPTION

EMERGENCY VEHICLE PRE-EMPTION PHASING AND PRIORITY NOTES:

1. EMERGENCY VEHICLE PRE-EMPTION SIGNALS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.
2. IN RESPONSE TO A PRE-EMPTION SIGNAL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR D1 (OR D2, D3, D4) THE CONTROLLER SHALL HOLD OR ADVANCE TO AND HOLD IN EMERGENCY VEHICLE PRE-EMPTION PHASE #1 (OR #2, #3, #4) GREEN FOR A MINIMUM OF TEN (10) SECONDS OR UNTIL PRE-EMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME PRE-EMPTION PHASE CLEARANCE (4 SECONDS: YELLOW AND 1 SECOND: ALL RED) AND SERVICE EMERGENCY VEHICLE PRE-EMPTION PHASE #2 (OR #1) IF NECESSARY, THEN TIME PHASE PRE-EMPTION CLEARANCE AND RESUME NORMAL SIGNAL OPERATION. EMERGENCY VEHICLE PRE-EMPTION PHASE #3 AND #4 SHALL BE SIMILARLY SERVED.
3. MINIMUM GREEN, NORMAL VEHICLE CLEARANCE, SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.
4. PREEMPTION STROBE SHALL BE ILLUMINATED WHENEVER ANY EMERGENCY VEHICLE PRE-EMPTION GREEN IS ON.

LEGEND

- PROPOSED SPAN WIRE & POLE
- PROPOSED MAST ARM & POLE
- PROPOSED SIGNAL POST
- A PROPOSED SIGNAL HEAD
- B PROPOSED OPTICALLY PROGRAMMED HEAD
- P1 PROPOSED PEDESTRIAN HEAD
- PROPOSED PEDESTRIAN PUSH BUTTON
- PROPOSED 12X12 PULL BOX
- PROPOSED 13X24X36 HAND HOLE
- PROPOSED 3" PVC CONDUIT TYPE NM
- PROPOSED CONTROLLER CABINET
- PROPOSED CONTROLLER CABINET W/CONC PAD
- PROPOSED CONTROLLER CABINET POLE MOUNTED
- DETECTOR KEY
- PROPOSED VIDEO DETECTOR
- III PROPOSED PREEMPTION OPTICAL DETECTOR
- PROPOSED PREEMPTION CONFIRMATION STROBE
- VIDEO DETECTION ZONE
- LOOP DETECTOR

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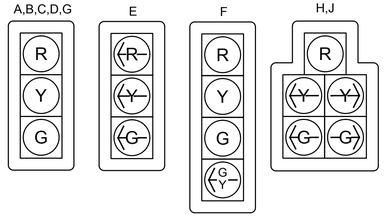


P1-P6



ALL COUNTDOWN PEDESTRIAN SIGNAL DISPLAYS SHALL BE EQUIPPED W/L.E.D. MODULES (16 INCH DISPLAY).

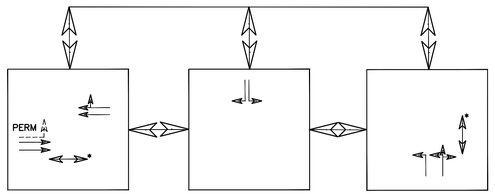


PROPOSED R10-3E

TO BE MOUNTED WITH EACH PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL.

ACCESSIBLE PEDESTRIAN SIGNALS (APS):

ALL PROPOSED ACCESSIBLE PEDESTRIAN SIGNALS MUST FULLY COMPLY WITH THE UNITED STATES ACCESS BOARD PROWAG SUPPLEMENTAL TECHNICAL REQUIREMENTS UNDER CHAPTER 4. THIS INCLUDES OPERABLE PARTS (R403), CLEAR SPACES (R404), AND REACH RANGES (R406) AS RELATES TO ACCESSIBLE PEDESTRIAN SIGNALS AND PEDESTRIAN PUSH BUTTONS.



* UPON PEDESTRIAN PUSH BUTTON ACTIVATION

PREFERENTIAL PHASE SEQUENCE

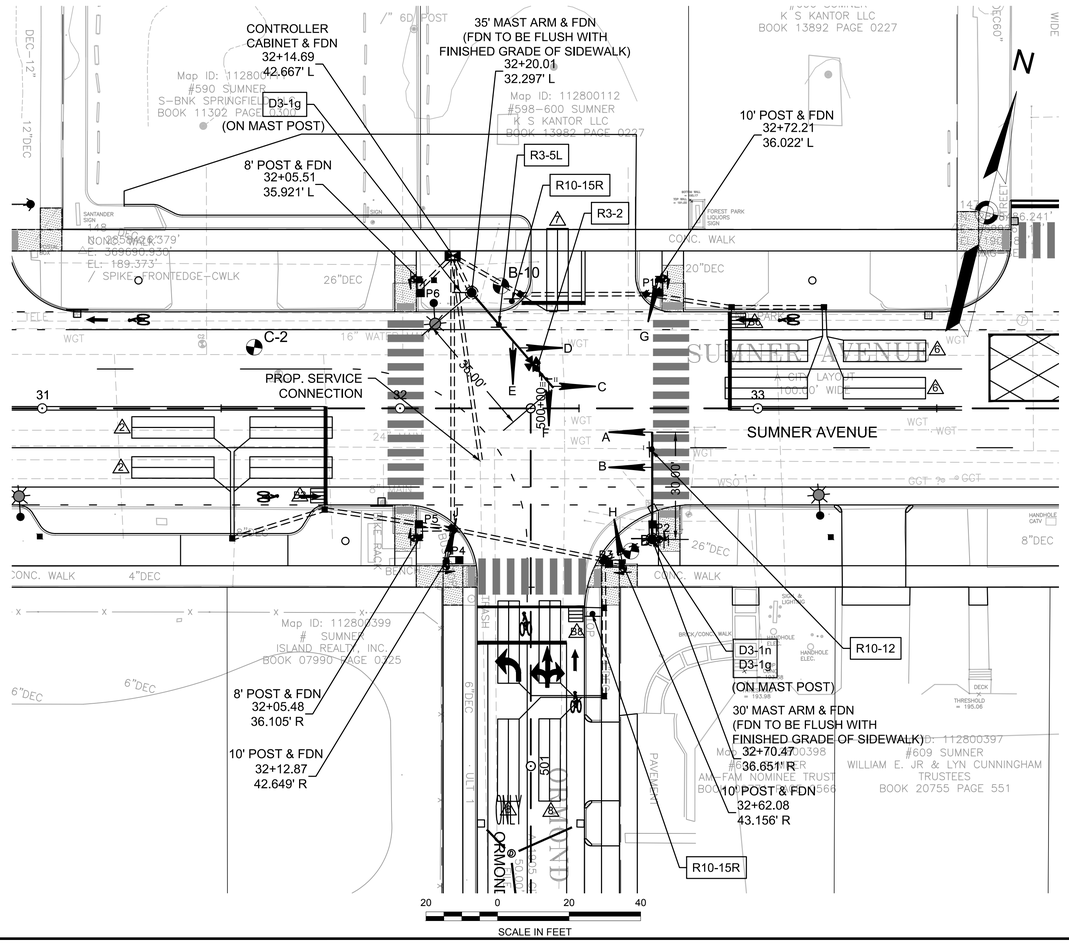
PROPOSED SIGNAL INDICATIONS

ALL SIGNAL HEADS SHALL BE RIGID MOUNTED & EQUIPPED WITH ±5" LOUVERED BACKPLATES WITH 2" YELLOW REFLECTIVE TAPE BORDERS. THE REFLECTIVE TAPE SHALL NOT EXTEND INTO OR COVER ANY PART OF THE LOUVERED AREA.

*****ALL PROPOSED MAST ARMS, SIGNAL POSTS, BASES, BACKPLATES, AND BRACKETS SHALL BE FACTORY COATED BLACK******

SIGNAL SEQUENCE & TIMING

	DIRECTION	HOUSING	Ø/OL	PHASE 2			PHASE 6			PHASE 7			PHASE 8			FLASH
				PREEMPTION I			PREEMPTION II						PREEMPTION III			
				1	2	3	7	8	9	4	5	6	10	11	12	
MINIMUM GREEN				12			12			5			8			
PASSAGE TIME				2			2			2			2			
MAXIMUM I				42.5			42.5			18			27			
MAXIMUM II				46.5			46.5			18			23			
YELLOW CLEAR					3.5			3.5			3.5			3.5		
RED CLEAR						1			1			1.5			1.5	
WALK				7						4			4			
PED CLEAR					10	3					16	3		16	3	
SUMNER AVE	EB	A,B	2	G	Y	R	R	R	R	R	R	R	R	R	R	FY
SUMNER AVE	WB	C,D	6	R	R	R	G	Y	R	R	R	R	R	R	R	FY
ORMOND ST	NB L	E	3	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(G)	(Y)	(R)	(FR)
ORMOND ST	NB	F	3	R	R	R	R	R	R	R	R	R	(G)	(Y)	R	FR
ORMOND ST	NB	G	3	R	R	R	R	R	R	R	R	R	G	Y	R	FR
PRIVATE DRIVE	SB L/R	H,J	7	R	R	R	R	R	R	(G)	(Y)	R	R	R	R	FR
PRIVATE DRIVE	SB R	K	7	R	R	R	R	R	R	(G)	(Y)	R	R	R	R	FR
PEDESTRIAN			UPON PUSHBUTTON ACTUATION													
	SOUTH	P3,P4		W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT
	EAST	P1,P2		DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
	WEST	P5,P6														
DETECTORS				NON–LOCK			NON–LOCK			NON–LOCK			NON–LOCK			
RECALL				OFF			OFF			OFF			OFF			
DUAL ENTRY				ON			ON			ON			ON			
FLASHING OPERATION PER MUTCD SEC. 4D-28				PERM												



MAJOR ITEMS REQUIRED

PAY ITEM	QUANTITY	ITEM
811.31	6	PULL BOX 12" X 12"
811.32	2	PULL BOX 13" X 24"
815.2	1	SERVICE CONNECTION
	2	SIGNAL POST & BASE STANDARD - 8' INCL FOUNDATION
	3	SIGNAL POST & BASE STANDARD - 10' INCL FOUNDATION
	1	30' MAST ARM - STEEL, INCL BASE & FOUNDATION
	1	35' MAST ARM - STEEL, INCL BASE & FOUNDATION
	7	SIGNAL HEAD 1 WAY - 3 SECTION 12" LED LENS
	2	SIGNAL HEAD 1 WAY - 5 SECTION DOGHOUSE 12" LED LENS
	6	16" LED PEDESTRIAN SIGNAL HEAD
	1	TRAFFIC SIGNAL CONTROLLER - TYPE 8DW, INCLUDING BASE MOUNTED CABINET NEMA TS2 TYPE 1
	6	ACCESSIBLE PEDESTRIAN SIGNAL WITH SIGN AND SADDLE
	2	DUAL-CHANNEL INDUCTIVE LOOP DETECTOR AMPLIFIER
	3	4 FT X 4 FT DOUBLE QUADRUPOLE WIRE LOOP
	13	6 FT X 23 FT STANDARD QUADRUPOLE WIRE LOOP
	3	SINGLE CHANNEL PREEMPTION DETECTOR & CABLE
	1	4 CHANNEL OPTICAL SIGNAL PROCESSOR
	1	PREEMPTION CARD RACK AND HARNESS
	1	PREEMPTION CONFIRMATION STROBE
	1	GPS CLOCK
		PLUS ALL WIRE, CABLE, MOUNTING HARDWARE, EQUIPMENT & MATERIALS NECESSARY TO COMPLETE THE INSTALLATION

LOOP DETECTORS

KEY	LOOPS	SIZE	TURNS	OPERATION	DELAY	PHASE	CONNECTION
A2	4	6'X23'	2-4-2	PRESENCE	0 SEC.	2	PARALLEL
A2	1	4'X4'	1-2-2-1	PRESENCE	0 SEC.	2	PARALLEL
A6	4	6'X23'	2-4-2	PRESENCE	0 SEC.	6	PARALLEL
A6	1	4'X4'	1-2-2-1	PRESENCE	0 SEC.	6	PARALLEL
A7	1	6'X23'	2-4-2	PRESENCE	0 SEC.	7	PARALLEL
A8	4	6'X23'	2-4-2	PRESENCE	0 SEC.	8	PARALLEL

EMERGENCY VEHICLE PRE-EMPTION PHASING AND PRIORITY NOTES:

1. EMERGENCY VEHICLE PRE-EMPTION SIGNALS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.
2. IN RESPONSE TO A PRE-EMPTION SIGNAL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR D1 (OR D2, D3, D4) THE CONTROLLER SHALL HOLD OR ADVANCE TO AND HOLD IN EMERGENCY VEHICLE PRE-EMPTION PHASE #1 (OR #2, #3, #4) GREEN FOR A MINIMUM OF TEN (10) SECONDS OR UNTIL PRE-EMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME PRE-EMPTION PHASE CLEARANCE (4 SECONDS: YELLOW AND 1 SECOND: ALL RED) AND SERVICE EMERGENCY VEHICLE PRE-EMPTION PHASE #2 (OR #1) IF NECESSARY, THEN TIME PHASE PRE-EMPTION CLEARANCE AND RESUME NORMAL SIGNAL OPERATION. EMERGENCY VEHICLE PRE-EMPTION PHASE #3 AND #4 SHALL BE SIMILARLY SERVED.
3. MINIMUM GREEN, NORMAL VEHICLE CLEARANCE, SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.
4. PREEMPTION STROBE SHALL BE ILLUMINATED WHENEVER ANY EMERGENCY VEHICLE PRE-EMPTION GREEN IS ON.

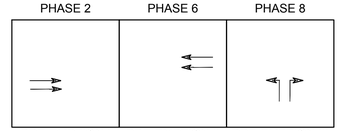
LEGEND

- PROPOSED SPAN WIRE & POLE
- PROPOSED MAST ARM & POLE
- PROPOSED SIGNAL POST
- A PROPOSED SIGNAL HEAD
- B PROPOSED OPTICALLY PROGRAMMED HEAD
- P1 PROPOSED PEDESTRIAN HEAD
- PROPOSED PEDESTRIAN PUSH BUTTON
- PROPOSED 12X12 PULL BOX
- PROPOSED 13X24X36 HAND HOLE
- PROPOSED 3" PVC CONDUIT TYPE NM
- PROPOSED CONTROLLER CABINET
- PROPOSED CONTROLLER CABINET W/CONC PAD
- PROPOSED CONTROLLER CABINET POLE MOUNTED
- DETECTOR KEY
- PROPOSED VIDEO DETECTOR
- III PROPOSED PREEMPTION OPTICAL DETECTOR
- PROPOSED PREEMPTION CONFIRMATION STROBE
- VIDEO DETECTION ZONE
- LOOP DETECTOR

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	117	XXX
PROJECT FILE NO.	608717		

TRAFFIC SIGNAL PLAN
LOCATION 4



PRE-EMPTION

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	118	XXX
PROJECT FILE NO.		608717	

TRAFFIC SIGNAL COORDINATION PLAN

COORDINATION PLAN TO BE SHOWN AT 75% DESIGN

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NOTES:

1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
5. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
6. CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.
7. THE FIRST FIVE PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE A LIGHTS.
8. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
9. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
10. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
11. MINIMUM LANE WIDTH IS TO BE 11 FEET (3.3m) UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
12. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.

LEGEND:

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

THE IDEAL CAPACITY OF A MAJOR HIGHWAY IS GENERALLY CONSIDERED TO BE 1900 PASSENGER CARS PER HOUR PER LANE (PCPHPL). IN WORK ZONES ON A MULTI-LANE DIVIDED HIGHWAY, THE FOLLOWING VOLUME GUIDELINES HAVE BEEN SUGGESTED:

MEASURED AVERAGE WORK ZONE CAPACITIES

NUMBER OF LANES		NUMBER OF STUDIES	AVERAGE CAPACITY	
NORMAL (EXISTING)	OPEN (TO TRAFFIC)		VPH	VPHPL
3	1	7	1,170	1,170
2	1	8	1,340	1,340
5	2	8	2,740	1,370
4	2	4	2,960	1,480
3	2	9	2,980	1,490
4	3	4	4,560	1,520

Source: Dudek, C., Notes on Work Zone Capacity and Level of Service, Texas Transportation Institute, Texas A&M University, College Station, Texas (1984)

BY OBTAINING HOURLY TRAFFIC COUNTS FOR A PARTICULAR ROADWAY (WITH A MINIMUM OF A 48-HOUR AUTOMATIC TRAFFIC RECORDER (ATR) COUNT), THIS WILL HELP TO DETERMINE AT WHAT TIMES OF THE DAY OR NIGHT A CERTAIN NUMBER OF LANES MAY BE CLOSED.

massDOT Highway Division | Notes for Traffic Management | FIGURE GEN-1 GENERAL GUIDELINES

SUGGESTED WORK ZONE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS **		
	A	B	C
LOCAL OR LOW VOLUME ROADWAYS*	350 (100)	350 (100)	350 (100)
MOST OTHER ROADWAYS*	500 (150)	500 (150)	500 (150)
FREEWAYS AND EXPRESSWAYS*	1,000 (300)	1,500 (450)	2,640 (800)

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

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

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

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

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

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

Based on: Table 6C-1 MUTCD LATEST EDITION

STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED

SPEED* (km/h)	DISTANCE (m)
30	35
40	50
50	65
60	85
70	105
80	130
90	160
100	185
110	220
120	250

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

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

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

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

Source: Table 6C-2 MUTCD LATEST EDITION

massDOT Highway Division | Notes for Traffic Management | FIGURE GEN-2 NOTES ON WORK ZONE DISTANCES

CONVENTIONAL ROADWAY- A STREET OR HIGHWAY OTHER THAN A LOW-VOLUME ROAD, EXPRESSWAY, OR FREEWAY.

EXPRESSWAY- A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.

FREEWAY- A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS.

LOW-VOLUME ROAD- A FACILITY LYING OUTSIDE OF BUILT-UP AREAS OF CITIES, TOWNS, AND COMMUNITIES, AND IT SHALL HAVE A TRAFFIC VOLUME OF LESS THAN 400 AADT. IT SHALL NOT BE A FREEWAY, EXPRESSWAY, INTERCHANGE RAMP, FREEWAY SERVICE ROAD OR A ROAD ON A DESIGNATED STATE HIGHWAY SYSTEM.

Source: MUTCD LATEST EDITION

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FT MIN.(15 m) 100 FT(30 m) MAX.
DOWNSTREAM TAPER	50 FT MIN.(15 m) 100 FT MAX.(30 m) PER LANE

Source: Table 6C-3 MUTCD LATEST EDITION

FORMULAS FOR DETERMINING TAPER LENGTHS

SPEED LIMIT (S)	TAPER LENGTH (L) FEET
40 MPH OR LESS	L= WS²/60
45 MPH OR MORE	L= WS

SPEED LIMIT (S)	TAPER LENGTH (L) Meters
60 KM/H OR LESS	L= WS²/155
70 KM/H OR MORE	L= WS/1.6

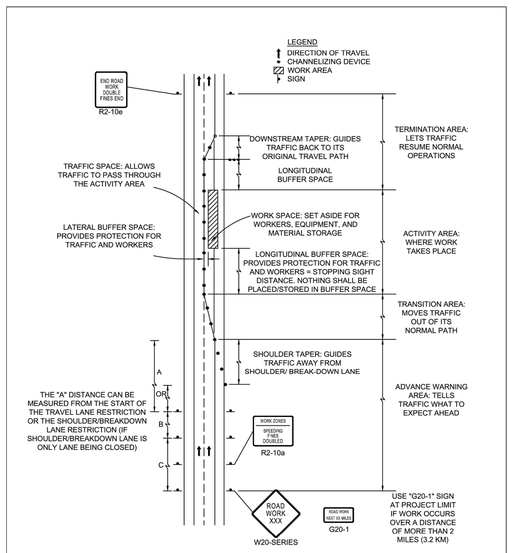
WHERE: L = TAPER LENGTH IN FEET (METERS)

W = WIDTH OF OFFSET IN FEET (METERS)

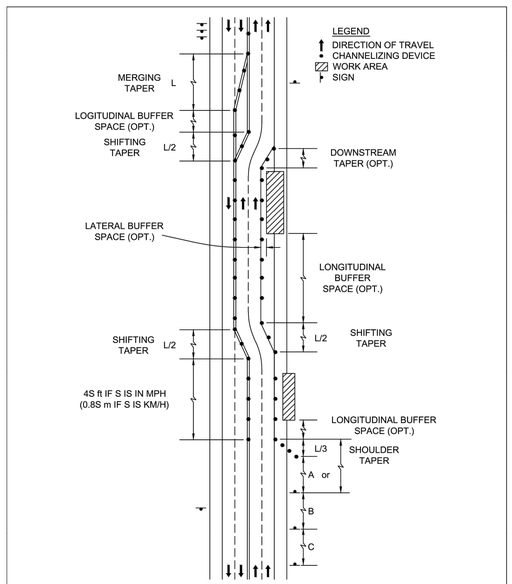
S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICAPATED OPERATING SPEED IN MPH (KM/H)

Source: Table 6C-4 MUTCD LATEST EDITION

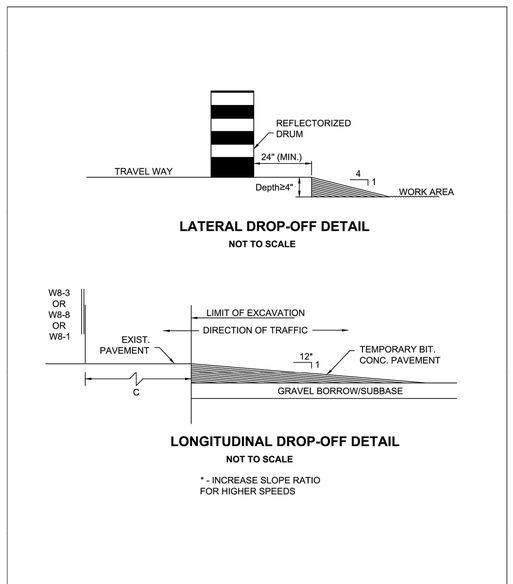
massDOT Highway Division | Notes for Traffic Management | FIGURE GEN-3 NOTES ON WORK ZONE DISTANCES



massDOT Highway Division | Standard Details and Drawings for the Development of Temporary Traffic Control Plans | FIGURE GEN-4 COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL (TTC) ZONE NOT TO SCALE



massDOT Highway Division | Standard Details and Drawings for the Development of Temporary Traffic Control Plans | FIGURE GEN-5 TYPES OF TAPERS AND BUFFER SPACES NOT TO SCALE



LATERAL DROP-OFF DETAIL

NOT TO SCALE

LONGITUDINAL DROP-OFF DETAIL

NOT TO SCALE

* - INCREASE SLOPE RATIO FOR HIGHER SPEEDS

massDOT Highway Division | Standard Details and Drawings for the Development of Temporary Traffic Control Plans | FIGURE GEN-6 LATERAL AND LONGITUDINAL DROP-OFF DETAILS NOT TO SCALE

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	119	XXX
	PROJECT FILE NO. 608717		

TEMPORARY TRAFFIC CONTROL PLANS

GENERAL NOTES:

1. IF ANY STAGE REQUIRES MODIFICATION OF THE TRAFFIC SIGNAL OPERATION, THE CONTRACTOR SHALL SUBMIT A REVISED SIGNAL TIMING AND PHASING PLAN TO THE CITY OF NORTHAMPTON FOR APPROVAL BEFORE MODIFYING THE TRAFFIC SIGNAL.
2. CONTRACTOR SHALL CONSTRUCT SIDEWALK IN SMALLER SECTIONS THAN SHOWN ON STAGING PLANS OR PEDESTRAIN MANAGEMENT PLANS IN ORDER TO MAINTAIN ACCESS TO BUILDINGS. THE CONTRACTOR SHALL COORDINATE WITH BUSINESS OWNERS ON ALL WORK IN FRONT OF THEIR BUILDINGS.
3. ALL TRAFFIC MANAGEMENT CONFIGURATIONS SHALL CONFORM TO THE STANDARD MassDOT DETAILS ON THE FOLLOWING SHEETS AND APPLY TO ALL LOCATIONS INCLUDED IN THE CONTRACT.

THE CONTRACTOR SHALL BE PERMITTED TO PERFORM TEMPORARY ROADWAY OR LANE CLOSURES FROM 8:00 A.M. TO 3:00 P.M. CHANGES TO THESE TIMES REQUIRE APPROVAL FROM THE CITY OF SPRINGFIELD

4. ALL TRENCHES IN THE ROADWAY SHALL EITHER BE BACKFILLED AND PATCHED WITH HOT MIX ASPHALT, COVERED WITH BEVELED EDGES STEEL PLATES, OR HOT MIX ASPHALT AROUND STEEL PLATES BEFORE REOPENING THE ROADWAY TO TRAFFIC. UNBEVELED STEEL PLATE MAY BE USED IF HMA WEDGES ARE PLACED IN ACCORDANCE WITH THE LONGITUDINAL DROP OFF DETAIL.
5. COVER ALL EXISTING SIGNAGE THAT CONFLICTS WITH THE TRAFFIC MANAGEMENT SETUP IN PLACE.
6. PORTABLE CHANGEABLE MESSAGE BOARDS (PCMB) SHALL BE USED ON THE PROJECT SITE; THESE SIGNS SHALL ADVISE MOTORISTS TO EXPECT DELAYS, AND ADVISE TRAILER TRUCKS OF RESTRICTED LANE WIDTHS (AND POSSIBLE DETOUR ROUTES) ON SPECIFIC APPROACHES DURING CERTAIN STAGES OF CONSTRUCTION.
7. THE CONTRACTOR SHALL PLACE TWO PORTABLE CHANGEABLE MESSAGE BOARDS (PCMB) ON THE PROJECT SITE, FOR SEVEN DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
8. ALL ADVANCED SIGNAGE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT.

SUMNER AVENUE	
ROADWAY TYPE	URBAN PRINCIPAL ARTERIAL
ADT	21,344
DISTANCE "A*"	500'
DISTANCE "B*"	500'
DISTANCE "C"	500'
ANTICIPATED SPEED	30 MPH

DICKINSON STREET	
ROADWAY TYPE	URBAN PRINCIPAL ARTERIAL
ADT	7,887
DISTANCE "A*"	500'
DISTANCE "B*"	500'
DISTANCE "C"	500'
ANTICIPATED SPEED	30 MPH

BELMONT AVENUE	
ROADWAY TYPE	URBAN PRINCIPAL ARTERIAL
ADT	8,525
DISTANCE "A*"	500'
DISTANCE "B*"	500'
DISTANCE "C"	500'
ANTICIPATED SPEED	30 MPH

10. IF FLAGGERS ARE USED FOR TRAFFIC CONTROL, THE FLAGGER SIGN (W20-7a) SHALL BE SUBSTITUTED FOR THE POLICE OFFICER AHEAD (W20-7b) SIGN.
11. FOR EXISTING OR TEMPORARY CROSSWALKS IN A PEDESTRIAN BYPASS AREA (E.G. FIGURE PED-3 STANDARD DETAILS) THERE SHALL BE A PEDESTRIAN WARNING SIGN WITH PLACARD (W11-2 AND W16-7P) ON EACH APPROACH (TRAVEL DIRECTION) AT THE CROSSWALK.

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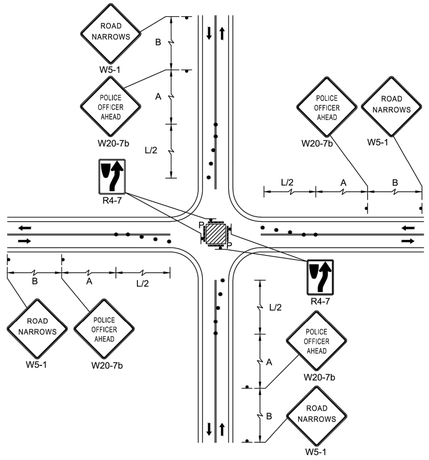
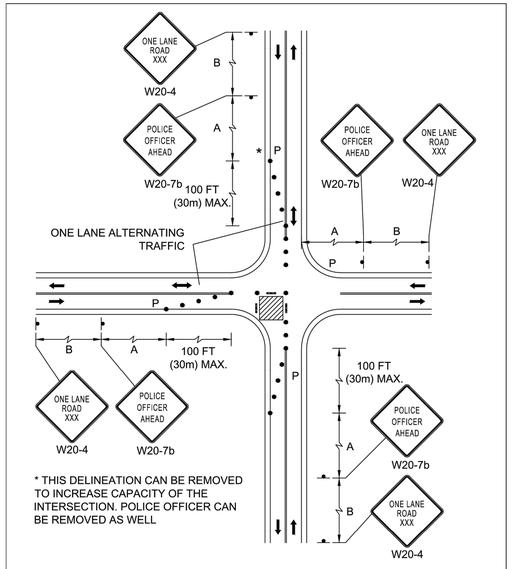
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	120	XXX
	PROJECT FILE NO. 608717		

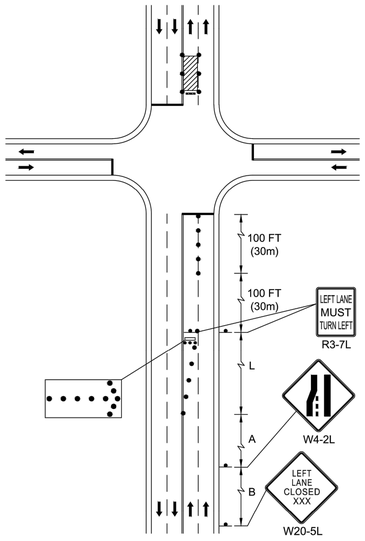
TEMPORARY TRAFFIC CONTROL PLANS



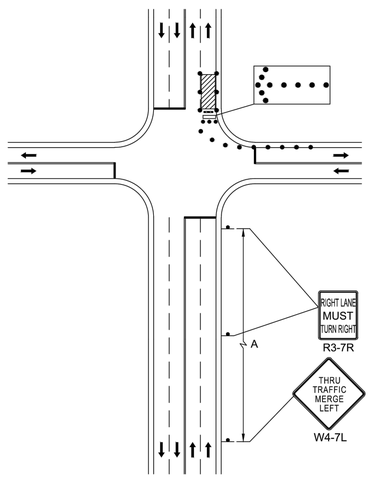
massDOT Massachusetts Department of Transportation Highway Division | Standard Details and Drawings for the Development of Temporary Traffic Control Plans | FIGURE INT-1 SINGLE LANE APPROACH CENTER CLOSURE NOT TO SCALE



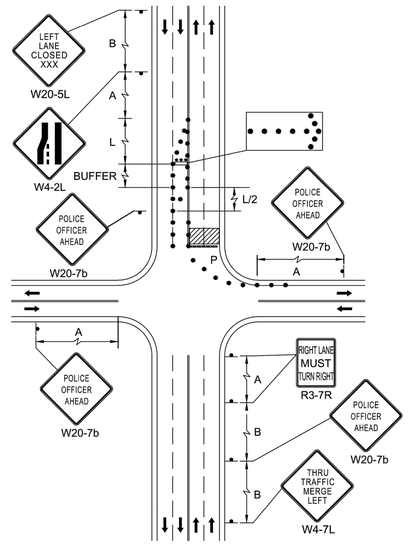
massDOT Massachusetts Department of Transportation Highway Division | Standard Details and Drawings for the Development of Temporary Traffic Control Plans | FIGURE INT-2 SINGLE LANE APPROACH ONE QUADRANT CLOSURE NOT TO SCALE



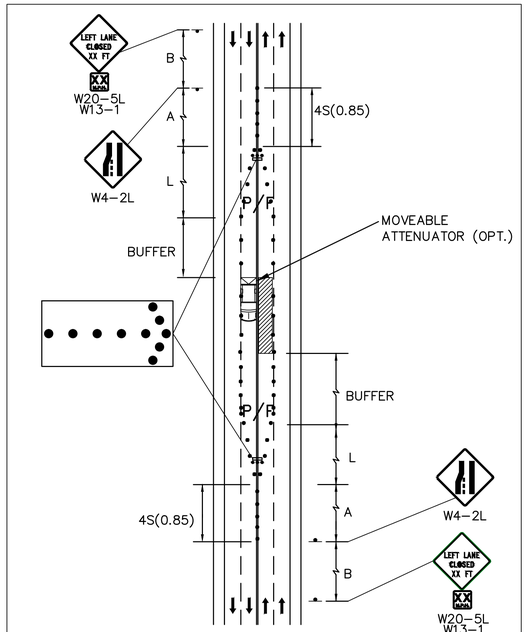
massDOT Massachusetts Department of Transportation Highway Division | Standard Details and Drawings for the Development of Temporary Traffic Control Plans | FIGURE INT-3 DOUBLE LANE APPROACH FAR SIDE CLOSURE INSIDE LANE NOT TO SCALE



massDOT Massachusetts Department of Transportation Highway Division | Standard Details and Drawings for the Development of Temporary Traffic Control Plans | FIGURE INT-4 DOUBLE LANE APPROACH FAR SIDE CLOSURE RIGHT LANE NOT TO SCALE



massDOT Massachusetts Department of Transportation Highway Division | Standard Details and Drawings for the Development of Temporary Traffic Control Plans | FIGURE INT-5 DOUBLE LANE APPROACH HALF ROAD CLOSURE NOT TO SCALE



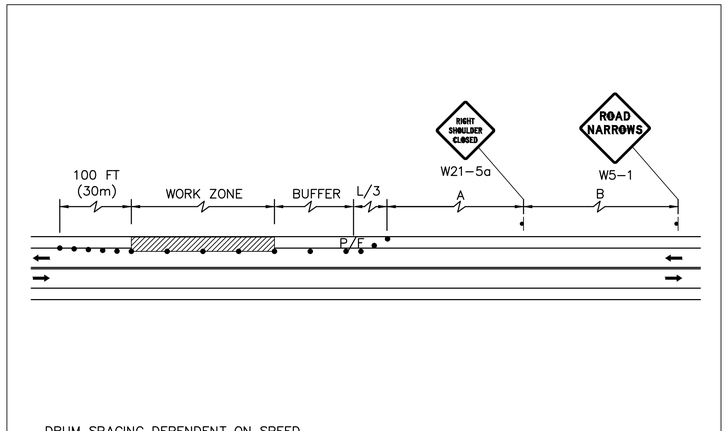
massDOT Massachusetts Department of Transportation Highway Division

Standard Details and Drawings for the Development of Traffic Management Plans

FIGURE MLR-1

MULTIPLE LANE ROAD INTERIOR LANE CLOSURE

NOT TO SCALE



DRUM SPACING DEPENDENT ON SPEED

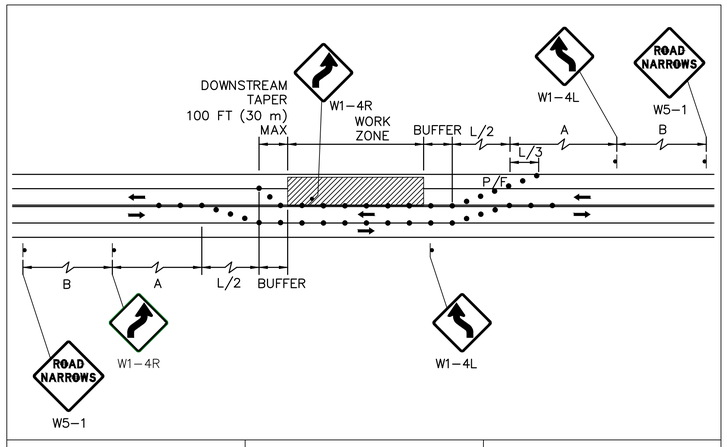
massDOT Massachusetts Department of Transportation Highway Division

Standard Details and Drawings for the Development of Traffic Management Plans

NOT TO SCALE

FIGURE TLR-1

TWO LANE ROAD SHOULDER CLOSED



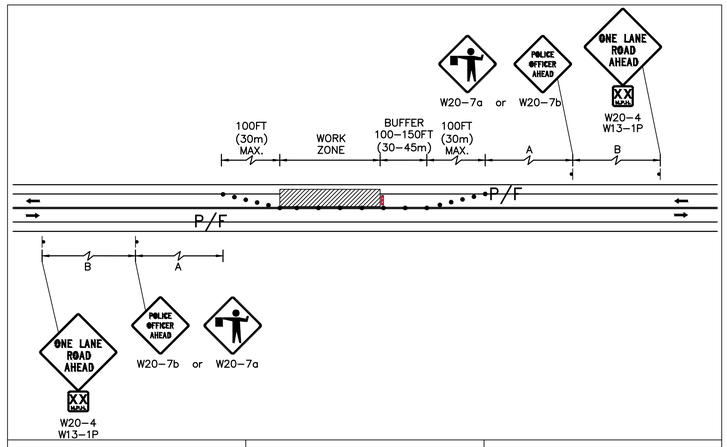
massDOT Massachusetts Department of Transportation Highway Division

Standard Details and Drawings for the Development of Traffic Management Plans

FIGURE TLR-2

TWO LANE ROAD SHOULDER AND TRAVEL LANE CLOSED

NOT TO SCALE



massDOT Massachusetts Department of Transportation Highway Division

Standard Details and Drawings for the Development of Traffic Management Plans

FIGURE TLR-5

TWO LANE ROAD ONE LANE ALTERNATING TRAFFIC WITH POLICE DETAIL

NOT TO SCALE

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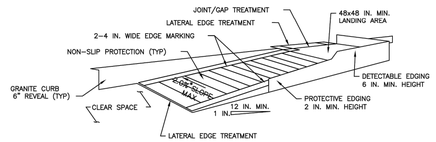
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	122	XXX
PROJECT FILE NO.	608717		

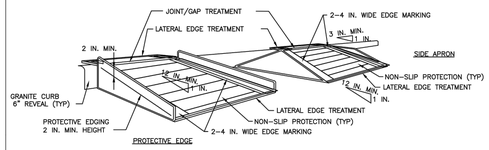
TEMPORARY TRAFFIC CONTROL PLANS

NOTES:

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

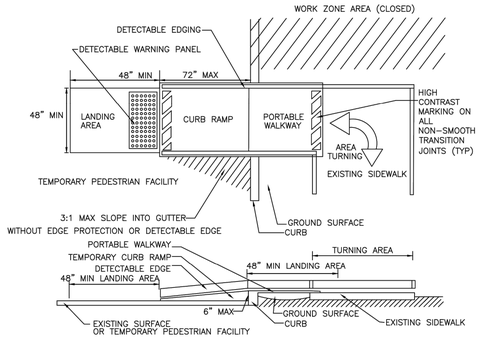


TEMPORARY CURB RAMP-PARALLEL TO CURB



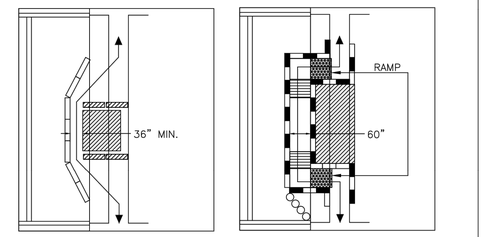
TEMPORARY CURB RAMP-PERPENDICULAR TO CURB

massDOT Massachusetts Department of Transportation Highway Division	Standard Details and Drawings for the Development of Temporary Traffic Control Plans	FIGURE PED-1 PEDESTRIAN DETAILS NOT TO SCALE



TEMPORARY CURB RAMP-TYPE 2

massDOT Massachusetts Department of Transportation Highway Division	Standard Details and Drawings for the Development of Temporary Traffic Control Plans	FIGURE PED-2 PEDESTRIAN DETAILS NOT TO SCALE

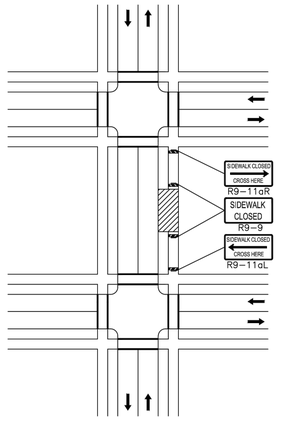


- When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, temporary facilities shall be provided and they shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility.
- A pedestrian channelizing device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

AUDIBLE DEVICES

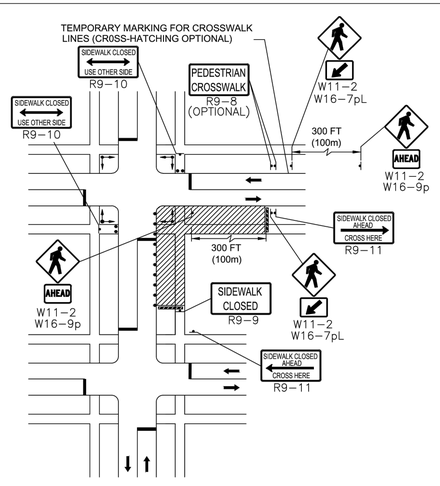
For long term sidewalk closures (at a minimum overnight) a form of speech messaging for pedestrians with visual disabilities shall be provided. Audible information devices such as detectable barriers or barricades and other passive pedestrian activation (motion activated) devices should be considered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

massDOT Massachusetts Department of Transportation Highway Division	Standard Details and Drawings for the Development of Temporary Traffic Control Plans	FIGURE PED-3 PEDESTRIAN DETAILS NOT TO SCALE



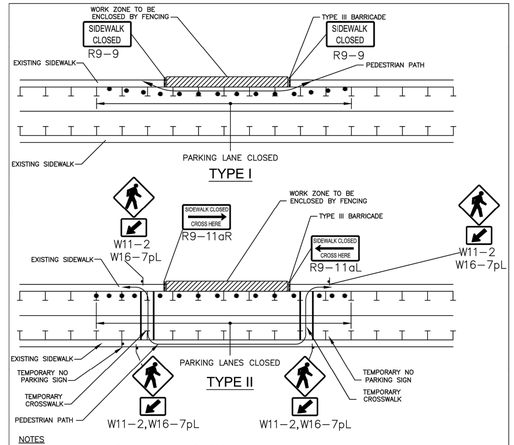
NOTE: IF A MINIMUM WIDTH OF 48" OF SOLID SMOOTH UNOBSTRUCTED SURFACE REMAINS ALONG THE WORK AREA THEN THE DETAIL CAN BE DISREGARDED. DELINEATION OF THE WORK AREA WILL STILL BE REQUIRED. All PEDESTRIAN DETOUR ROUTES SHALL BE ADA/MAAB COMPLIANT IN THEIR ENTIRETY.

massDOT Massachusetts Department of Transportation Highway Division	Standard Details and Drawings for the Development of Temporary Traffic Control Plans	FIGURE PED-5 SIDEWALK CLOSED WITHOUT DETOUR NOT TO SCALE



NOTE:
FOR LONG-TERM STATIONARY WORK, THE DOUBLE YELLOW CENTERLINE AND/OR LANE LINES SHOULD BE REMOVED BETWEEN THE CROSSWALK LINES.

massDOT Massachusetts Department of Transportation Highway Division	Standard Details and Drawings for the Development of Temporary Traffic Control Plans	FIGURE PED-6 PEDESTRIAN DETOUR NOT TO SCALE



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

massDOT Massachusetts Department of Transportation Highway Division	Standard Details and Drawings for the Development of Temporary Traffic Control Plans	FIGURE PED-7 PEDESTRIAN BYPASS NOT TO SCALE

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	123	XXX
PROJECT FILE NO.	608717		

TEMPORARY TRAFFIC CONTROL PLANS

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	AREA IN SQUARE FEET
R2-10a	24	30	WORK ZONES SPEEDING FINES DOUBLED	6
R9-8	36	18	PEDESTRIAN CROSSWALK	4.5
R9-9	30	18	SIDEWALK CLOSED	3.75
R9-10	48	24	SIDEWALK CLOSED USE OTHER SIDE	8
R9-11L	48	24	SIDEWALK CLOSED AHEAD CROSS HERE	8
R9-11R	48	24	SIDEWALK CLOSED AHEAD CROSS HERE	8
R9-11aL	48	24	SIDEWALK CLOSED CROSS HERE	8
R9-11aR	48	24	SIDEWALK CLOSED CROSS HERE	8
W1-4L	30	30		6.25
W1-4R	30	30		6.25
W4-2L	36	36		9
W4-2R	36	36		9
W4-7L	36	36	THRU TRAFFIC MERGE LEFT	9
W4-7R	36	36	THRU TRAFFIC MERGE RIGHT	9
W5-1	36	36	ROAD NARROWS	9
W11-2	30	30		6.25
W13-1	24	24	XX M.P.H.	4
W16-7PL	24	12		2

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	AREA IN SQUARE FEET
W16-9P	24	12	AHEAD	2
W20-1	36	36	ROAD WORK AHEAD	9
W20-4	36	36	ONE LANE ROAD AHEAD	9
W20-5L	36	36	LEFT LANE CLOSED AHEAD	9
W20-5R	36	36	RIGHT LANE CLOSED AHEAD	9
W20-7a	36	36		9
W20-7b	36	36	POLICE OFFICER AHEAD	9
W21-5aL	30	30	LEFT SHOULDER CLOSED	6.25
W21-5aR	30	30	RIGHT SHOULDER CLOSED	6.25
R2-10e (ORANGE) R2-10e (WHITE)	36	48	END ROAD WORK DOUBLE END FINES	12

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH (IN)	SIZE OF SIGN HEIGHT (IN)	TEXT	AREA IN SQUARE FEET

NOTE:

1. CONSTRUCTION SIGN COLORS WILL BE ADDED TO CHART FOR 75% SUBMISSION.

2. ADDITIONAL DETAILS AND TRAFFIC MANAGEMENT PLANS WILL BE PROVIDED FOR CONSTRUCTION ACTIVITIES ON BELMONT AVE. ORMOND STREET, CLIFTWOOD ST, AND SUMNER AVE. AT 75% SUBMISSION

TYPICAL CONSTRUCTION SIGNING

N.T.S.

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20121457A70_TMP02.DWG Tue, Apr-2018 10:49 AM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	124	XXX
PROJECT FILE NO.	608717		

TEMPORARY TRAFFIC CONTROL PLANS



FIXED CONSTRUCTION WARNING SIGN PLAN

SCALE: 1" = 250'

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STB: X LMAN: X MS VIEW: X UCS: X

NOTES:

1. THE SPRINGFIELD WATER & SEWER COMMISSION (SWSC) SHALL COMPLETE ALL HYDRANT ADJUSTMENTS, HYDRANT RELOCATIONS, REPLACEMENT OR REPAIR OF RESIDENTIAL WATER SERVICE LINES, REPLACEMENT OF GATE BOXES/VALVES, AND ANY OTHER WORK ON EXISTING WATER AND SEWER UTILITIES THAT IS BEYOND THE SCOPE OF STANDARD ADJUSTMENTS/REBUILDS.

   IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE WITH SWSC DURING MILLING/RECONSTRUCTION OPERATIONS.

2. THE SWSC IS **NOT** PART OF DIGSAFE. THE CONTRACTOR SHOULD REQUEST THE MARK OUT OF UNDERGROUND WATER AND SEWER UTILITIES IN THE RIGHT OF WAY BY CONTACTING THE SWSC'S FIELD SERVICES OFFICE AT: 71 COLTON ST. BY CALLING 413-787-6206, A MINIMUM OF 72 HOURS BEFORE ANY EXCAVATION.

3. SEE TRAFFIC SIGNAL PLANS FOR PROPOSED EQUIPMENT AND RELATED UTILITY INSTALLATIONS

4. IF EXISTING PIPES SHOWN TO BE REMOVED ARE WITHIN THE LIMITS OF NEW PIPE TRENCH EXCAVATION THAN THE REMOVAL COST OF THE OLD PIPES SHALL BE INCLUDED IN THE UNIT COST FOR THE NEW PIPE THAT IS BEING INSTALLED. IF PIPES SHOWN TO BE REMOVED ARE OUTSIDE THE LIMITS OF NEW PIPE TRENCH (AS DETERMINED BY THE ENGINEER) THAN REMOVAL COST SHALL BE PAID UNDER ITEM 141. CLASS A TRENCH EXCAVATION.

5. ALL PROPOSED (NEW) CATCH BASINS SHALL HAVE 4' SUMPS UNLESS DEEMED INFEASIBLE DUE TO UTILITY CONFLICTS AS DETERMINED BY THE ENGINEER.

6. ALL CATCH BASINS WITHIN THE PAVED ROADWAY SHALL HAVE CASCADE STYLE/BICYCLE SAFE GRATES UNLESS OTHERWISE NOTED ON THE PLANS.

7. PROPOSED STATIONS/OFFSETS SHOWN ARE TO THE CENTER OF THE GRATE/COVER.

8. PROPOSED MUNICIPAL CATCH BASINS (MCB) SHALL BE INSTALLED IN PLACE OF EXISTING CATCH BASINS FOR WHICH PAYMENT SHALL INCLUDE PIPE REPLACEMENT AS NEEDED TO TIE INTO THE EXISTING SYSTEM. THE INTENT IS TO REPLACE THE OLD STRUCTURES WHILE MAINTAINING THE EXISTING PIPE NETWORK CONNECTIONS. REFER TO CONTRACT SPECIFICATIONS FOR MORE INFORMATION.

9. EXCAVATION FOR PROPOSED TREES SHALL NOT EXCEED 4' DEEP FROM STA. 2+00 TO 19+25 RT TO AVOID EXISTING SEWER LINE.

10. EVERSOURCE SHALL PROVIDE AND INSTALL: LIGHT POLES, FIXTURE ARM, LIGHT FIXTURE, PROVIDE MATERIALS, PULL, & INSTALL ALL WIRING FOR PROPOSED OR RESET STREET LIGHTS. THIS INCLUDES ANY NECESSARY SERVICE CONNECTIONS AND POLE RISERS.

11. THE CONTRACTOR SHALL PROVIDE AND INSTALL: NEW FOUNDATIONS, UNDERGROUND CONDUIT, & PULL BOXES FOR THE LIGHTING SYSTEM AS SHOWN ON THE PLANS. THIS INCLUDES EXCAVATION, BEDDING, AND BACKFILL MATERIALS.

- LIGHTING DESIGN IS TO BE PROVIDED AT 75% DESIGN
-LOCATION OF PROPOSED U.G. ELECTRIC IS SCHEMATIC. FINAL LOCATION TO BE DETERMINED AT 75% DESIGN

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	125	XXX
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS

N

NAD 83

CHURCHILL STREET (PUBLIC)

SUMNER TERRACE (PUBLIC)

BEGINNING OF PROJECT
STA. 1+41.24
N 2857665.2032
E 366818.4113

CB-1
STA:2+06.45
OFFSET:28.59' L
RIM=182.05'
INV.(out)=178.28 (C.I.T.-1)

PROP. CBCI
PROP. F&G

6 LF - 12" RCP
S=0.003'

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

C.I.T.-1
RIM=182.14'
INV.(in)=178.25 (CB-1)

CB-3
STA:3+25.05
OFFSET:30.96' L
RIM=182.36'
INV.(in)=179.10 (EXISTING)
INV.(out)=179.05 (C.I.T.-3)

C.I.T.-3
STA:3+27.34
OFFSET:25.92' L
RIM=182.51'
INV.(in)=178.98 (CB-3)
INV.(out)=178.98 (EXISTING)

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

REM. EXISTING CB
R&S F&G
PROP. MUNICIPAL CBCI
PROP. F&G

MCB-1
STA:4+33.19
OFFSET:54.83' L
RIM=183.49

REM. EXISTING CB
R&S F&G
PROP. MUNICIPAL CBCI
PROP. F&G

MCB-2
STA:4+90.49
OFFSET:56.76' L
RIM=183.05'

CB-8
STA:5+16.23
OFFSET:31.02' L
RIM=183.43'
INV.(out)=179.55 (C.I.T.-7)

PROP. CBCI
PROP. F&G

C.I.T.-7
RIM=183.52'
INV.(in)=179.50 (CB-8
INV.(out)=179.42' (EX

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

PROP. 3" U.G. ELECTRIC CONDUIT

PROP. 12"X12" ELECTRIC PULLBOX (TYP.)

R&S LP
PROP. LP (B.O.)

R&S LP
PROP. LP (B.O.)

R&S HYDRANT
PROP. HYDRANT (B.O.)

R&S LP
PROP. LP (B.O.)

2 LF - 12" RCP
S=0.013'

2 LF - 12" RCP
S=0.044'

1 LF - 12" RCP
S=-0.010'

1 LF - 12" RCP
S=0.012'

1 LF - 12" RCP
S=0.011'

C.I.T.-2
STA:2+75.27
OFFSET:26.45' R
RIM=182.14'
INV.(in)=177.97 (CB-2)

CB-2
STA:2+75.19
OFFSET:30.52' R
RIM=182.05'
INV.(out)=178.15 (C.I.T.-2)

C.I.T.-4
STA:4+16.94
OFFSET:26.22' R
RIM=182.96'
INV.(out)=179.60 (CB-4)

CB-4
STA:4+17.11
OFFSET:31.01' R
RIM=182.86'
INV.(in)=179.65 (C.I.T.-4)

C.I.T.-5
RIM=183.12'
INV.(in)=179.99 (CB-5)
INV.(out)=179.94' (EXISTING

CB-5
STA:4+71.05
OFFSET:31.01' R
RIM=183.01'
INV.(out)=180.05 (C.I.T-5)

PROP. CBCI
PROP. F&G

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

R&S EXIST. ELEC. SERVICE
(FINAL DISPOSITION TO BE
COORDINATED AT 25% UTIL. MEETING)

PROP. CBCI
PROP. F&G

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

PROP. CBCI
PROP. F&G

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

MAIN GREETING ROAD (PUBLIC)

SUMNER AVENUE (ROUTE 83) (PUBLIC)

SUMNER AVENUE (ROUTE 83) (PUBLIC)

0+00 1 2 3 4 5 6

CONTINUED ON SHEET NO. XXX

0 20 50 100
SCALE: 1" = 20'

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NOTE: EXCAVATION FOR PROPOSED TREES SHALL NOT EXCEED 4' FROM STA. 2+00 TO 19+25 RT TO AVOID EXISTING SEWER LINE.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	126	XXX
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS

SUMNER TERRACE (PUBLIC)

OAKLAND STREET (PUBLIC)

SUMNER AVENUE (ROUTE 83) (PUBLIC)

MHD RIM=183.38
10" PVC IN=179.13
10" AC IN(W)= 178.18
10" AC IN(E)= 179.28
12" RCP DEAD=179.08
12" PVC OUT= 177.73

CB RIM=183.25
10" PVC OUT= 179.55

CB RIM=183.28
10" VC OUT=179.58
SUMP=179.18

MHS RIM=183.45
12" VC IN (N)=174.0
12" VC IN (NE)=178.40
12" PVC IN=177.50
24" VC IN=171.7
12" PVC OUT=174.05
24" VC OUT=171.65
SHELF=172.15

ELECTRIC METER (2)

MHD RIM=185.78

MHS RIM=184.42
15" RCP IN=173.52
15" PVC IN=173.32
15" PVC OUT=173.22
SHELF=174.62

CB RIM=184.53

MHS RIM=183.77
12" PVC IN=172.57
15" PVC IN=172.37
15" PVC OUT=172.32
SHELF=173.77

CB RIM=182.94
8" VC OUT=179.94
SEDIMENT=179.84

CB RIM=183.53
8" VC OUT=179.83
SEDIMENT=181.23

CB RIM=183.53
8" VC OUT=179.83
SEDIMENT=181.23

NOTE: EXCAVATION FOR PROPOSED TREES SHALL NOT EXCEED 4' FROM STA. 2+00 TO 19+25 RT TO AVOID EXISTING SEWER LINE.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	127	XXX
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS

LIMIT OF WORK
STA. 603+36.00
N 2858039.5923
E 3674841.1303

N
NAD 83

BENCHMARK: SPIKE IN UTILITY LIGHT POLE EL=188.60

KENWOOD TERRACE (PUBLIC)

BEAUMONT STREET (PUBLIC)

CONTINUED ON SHEET NO. XXX

SUMNER AVENUE (ROUTE 83) (PUBLIC)

CONTINUED ON SHEET NO. XXX

CONTINENTAL STREET (PUBLIC)

LOCATION OF PROP. U.G. ELEC. IS SCHEMATIC & WILL BE FINALIZED AT 75% DESIGN

ELECTRIC METER

CB-17
STA:11+33.54
OFFSET:31.02' L
RIM=186.35'
INV.(out)=183.00 (C.I.T.-14)

PROP. CBCI
PROP. F&G

C.I.T.-14
RIM=186.43'
INV.(in)=182.95 (CB-17)

1 LF - 12" RCP
S=0.011'

R&R HYDRANT (B.O.)

PROP. CBCI
PROP. F&G

CB-19
STA:12+45.72
OFFSET:31.01' L
RIM=186.64'
INV.(out)=183.30 (C.I.T.-15)

C.I.T.-15
STA:12+45.47
OFFSET:26.42' L
RIM=186.73'
INV.(in)=183.25 (CB-19)

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

PROP. CBCI
PROP. F&G

CB-21
STA:13+73.58
OFFSET:31.04' L
RIM=186.89'
INV.(out)=183.30 (C.I.T.-17)

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

C.I.T.-17
RIM=186.98'
INV.(in)=183.25 (CB-21)

PROP. TREE TO BE FIELD LOCATED APPROX. 3' OFF CURB LINE TO ALLOW FOR FUTURE SEWER REPLACEMENT

R&S LP
PROP. LP (B.O.)

ADJ.
ADJ. B.O.
R&S LP
PROP. LP (B.O.)

1 LF - 12" RCP
S=0.011'

1 LF - 12" RCP
S=0.012'

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

C.I.T.-13
RIM=186.49'
INV.(in)=183.70 (CB-18)

CB-18
STA:11+56.50
OFFSET:31.01' R
RIM=186.39'
INV.(out)=183.75 (C.I.T.-13)

PROP. CBCI
PROP. F&G

R&R (DISPOSITION TO BE COORDINATED AT 25% UTL. MEETING)

PROP. 12"X12" ELECTRIC PULLBOX (TYP.)

PROP. 3" U.G. ELECTRIC CONDUIT

C.I.T.-16
RIM=187.05'
INV.(in)=183.95 (CB-20)

CB-20
STA:13+44.29
OFFSET:31.01' R
RIM=186.96'
INV.(out)=184.00 (C.I.T.-16)

C.I.T.-18
RIM=187.05'
INV.(in)=184.00 (CB-22)

CB-22
STA:14+29.86
OFFSET:31.02' R
RIM=186.96'
INV.(out)=184.05 (C.I.T.-18)

RET.

0 20 50 100
SCALE: 1" = 20'

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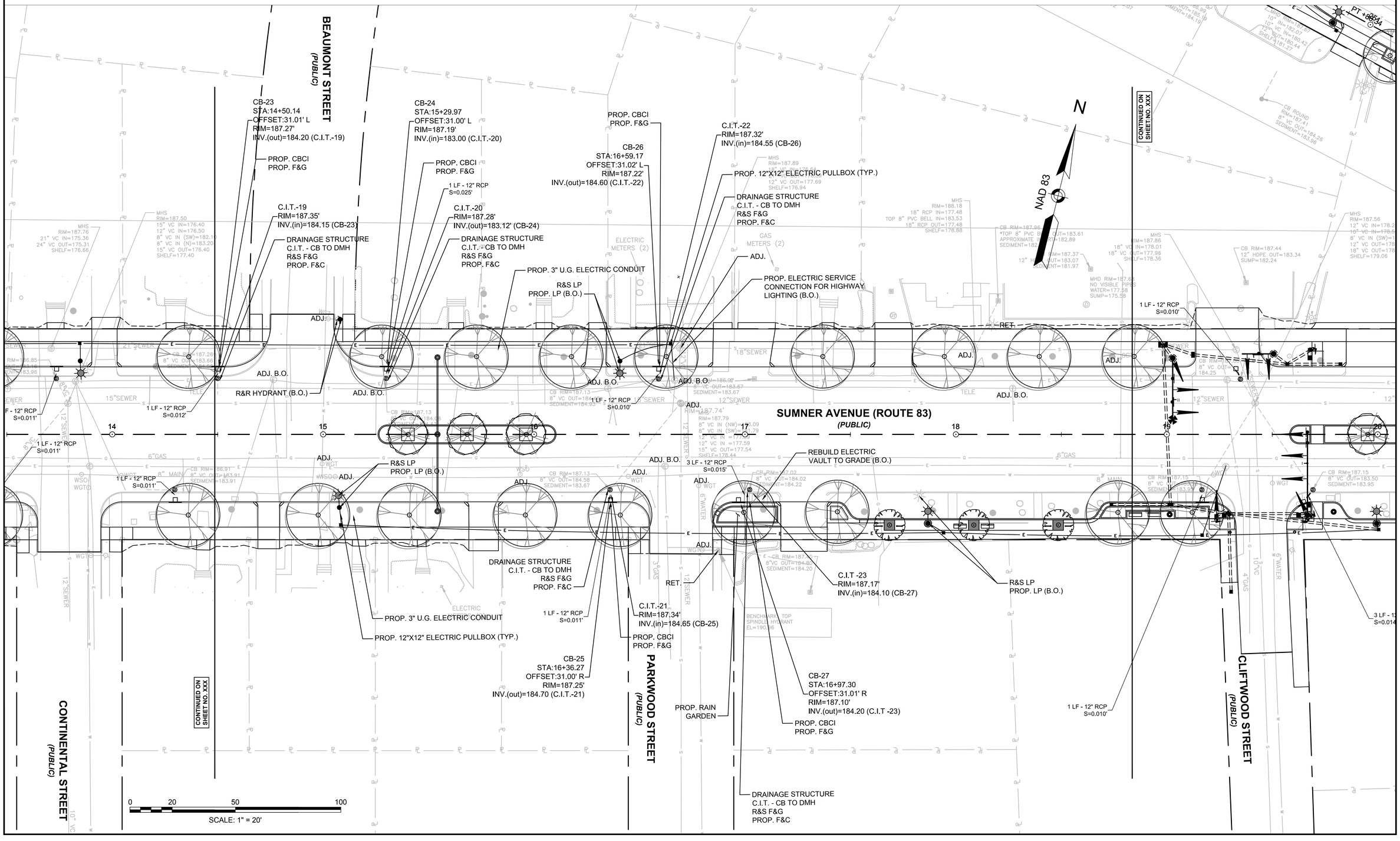
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	128	XXX
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS



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SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	129	XXX
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS

N

NAD 83

BELMONT AVENUE (PUBLIC)

SUMNER AVENUE (ROUTE 83) (PUBLIC)

CLIFTWOOD STREET (PUBLIC)

LENOX STREET (PUBLIC)

DICKINSON STREET (PUBLIC)

PT +88.34

252

PROP. CBCI
PROP. F&G

CONTINUED ON SHEET NO. XXX

CB-58
STA:252+65.83
OFFSET:17.22' L
RIM=187.13'
INV.(out)=184.10 (C.I.T.-55)

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C
C.I.T.-55
STA:253+11.07
OFFSET:35.83' L
RIM=187.72'
INV.(in)=183.35 (CB-59)
INV.(in)=183.35 (CB-58)

PROP. GATE VALVE - GAS (B.O.)
23 LF - 12" RCP
S=0.004'

PROP. CBCI
PROP. F&G
CB-59
STA:253+23.32
OFFSET:15.83' L
RIM=187.80'
INV.(out)=183.47 (C.I.T.-55)
PROP. SMH (B.O.)

R&S LP

52 LF - 12" RCP
S=0.004'

PROP. TMH (B.O.)

25°C +99.99

PROP. PEDESTRIAN
LEVEL LIGHT POLE
CB-34
STA:23+33.79
OFFSET:39.02' L
RIM=187.52'
INV.(in)=182.47 (C.I.T.-29)

PROP. CBCI
PROP. F&G

R&S LP

BENCHMARK: TOP "1"
SPINDLE HYDRANT
EL=189.84

CONTINUED ON SHEET NO. XXX

PROP. CB
PROP. F&G

CB-29
STA:19+32.80
OFFSET:31.20' L
RIM=187.14'
INV.(out)=184.40 (C.I.T.-25)

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C
C.I.T.-25
RIM=187.23'
INV.(in)=184.35 (CB-29)

PROP. CBCI
PROP. F&G
CB-31
STA:21+45.33
OFFSET:31.02' L
RIM=187.12'
INV.(in)=182.93 (C.I.T.-27)

1 LF - 12" RCP
S=0.025'

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

PROP. 3" U.G. ELECTRIC CONDUIT

PROP. 12"X12" ELECTRIC PULLBOX (TYP.)

PROP. ELECTRIC
LOAD CENTER

PROP. RAIN
GARDEN

1 LF - 12" RCP
S=0.010'

ADJ. B.O.

RET.

ADJ.

R&S LP
PROP. LP (B.O.)

PT +53.33

TEST PIT-ELEC.

ADJ. B.O.

ABANDON TELE. (B.O.)

ABANDON SEWER (B.O.)

C.I.T.-27
RIM=187.21'
INV.(out)=183.04' (CB-31)

PROP. TMH (B.O.)

PROP. SMH (B.O.)

254+09.64

PROP. GATE VALVE - GAS (B.O.)

REBUILD ELECTRIC
VAULT TO GRADE (B.O.)

6" D.I. PIPE (B.O.)

R&S HYDRANT
PROP. HYDRANT (B.O.)

C.I.T.-26
RIM=187.33'
INV.(in)=183.60 (CB-30)

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

3 LF - 12" RCP
S=0.014'

CB-30
STA:19+64.86
OFFSET:32.03' R
RIM=187.26'
INV.(out)=183.70 (C.I.T.-26)

PROP. CBCI
PROP. F&G

PROP. 3" U.G. ELECTRIC CONDUIT

PROP. 12"X12" ELECTRIC PULLBOX (TYP.)

C.I.T.-24
RIM=187.36'
INV.(in)=183.65 (CB-28)

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

1 LF - 12" RCP
S=0.010'

CB-28
STA:19+16.88
OFFSET:31.00' R
RIM=187.26'
INV.(out)=183.70 (C.I.T.-24)

PROP. CBCI
PROP. F&G

CONTINUED ON SHEET NO. XXX

PROP. RAIN GARDEN

C.I.T.-28
RIM=187.21'
INV.(out)=185.15' (CB-32)

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

2 LF - 12" RCP
S=-0.010'

CB-32
STA:21+58.50
OFFSET:31.02' R
RIM=187.11'
INV.(in)=185.20 (C.I.T.-28)

PROP. CBCI
PROP. F&G

MCB-5
STA:22+54.48
OFFSET:42.00' R
RIM=187.06'

REM. EXISTING CB
R&S F&G
PROP. MUNICIPAL CBCI
PROP. F&G

R&S LP
PROP. LP (B.O.)

R&S LP
PROP. LP (B.O.)

BENCHMARK: TOP
SPINDLE HYDRANT
EL=190.15

MHS
RIM=187.36
3'-4"X5'-0" OVAL BRICK IN=171.46
2'-6"X3'-9" TEARDROP BRICK IN=171.46
4'-2"X6'-3" OVAL BRICK OUT=171.26

18 19 20 21 22 23 24

0 20 50 100

SCALE: 1" = 20'

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SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	130	XXX
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS

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MS VIEW:- LAYER STATE:-

N
NAD 83

DICKINSON STREET (PUBLIC) 405
DICKINSON STREET (PUBLIC) 409
VENTURA STREET (PUBLIC) 407
SUMNER AVENUE (PUBLIC)

CONTINUED ON SHEET NO. XXX

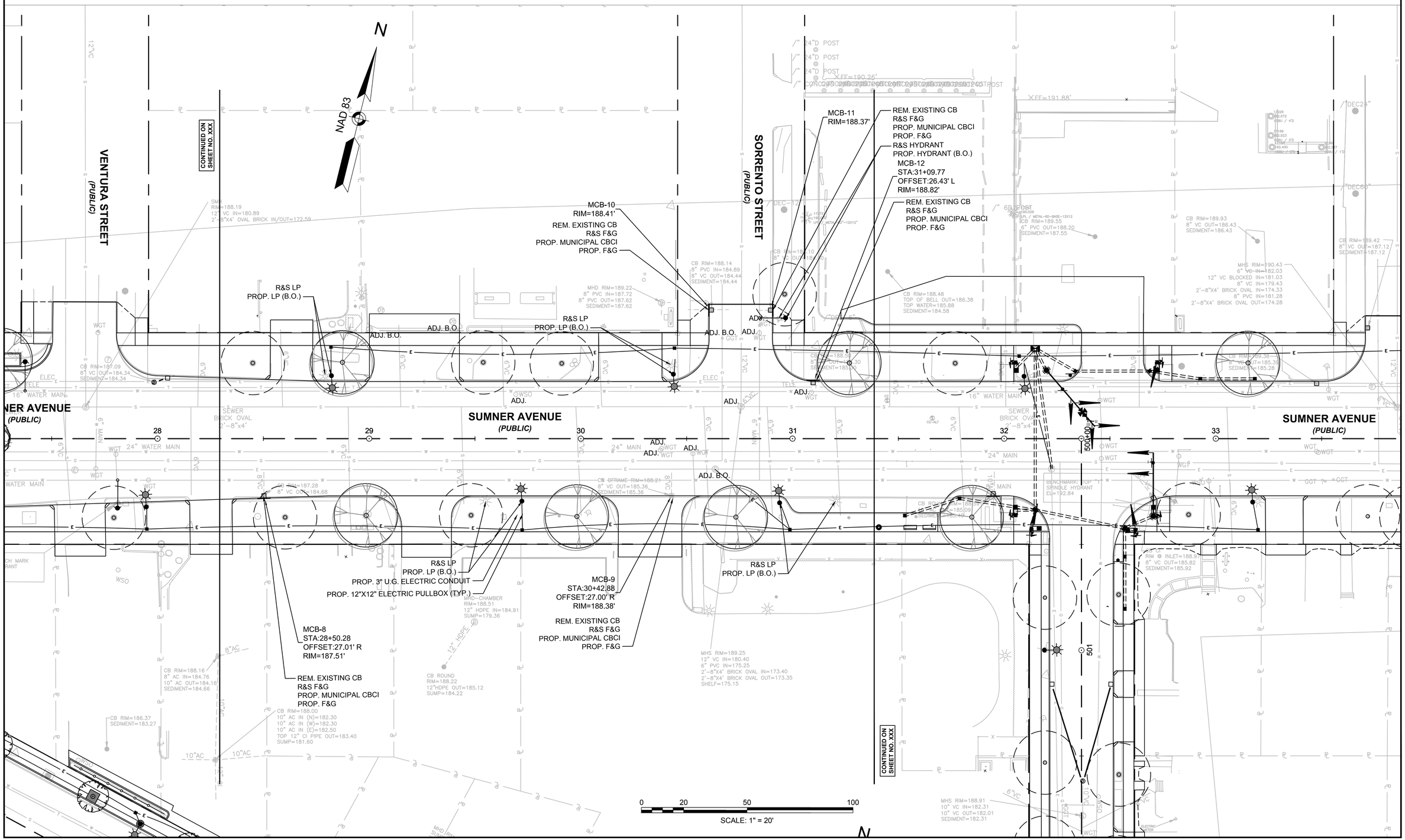
R&S LP
PROP. LP (B.O.)
ADJ.
ADJ. TO GRADE (B.O.)
ADJ. B.O.
DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C
C.I.T.-29
RIM=187.75'
INV.(out)=183.59' (CB-34)
28 LF - 12" RCP
S=0.005'
PROP. RAIN GARDEN
PC +10.40
PT +52.28
REM. EXISTING CB
R&S F&G
PROP. MUNICIPAL CBCI
PROP. F&G
MCB-32
STA:406+40.81
OFFSET:18.01' R
RIM=186.59'
MCB-33
STA:406+55.11
OFFSET:19.01' L
RIM=186.67'
2 LF - 12" RCP
S=0.007'
CB-36
STA:24+76.28
OFFSET:32.40' L
RIM=186.79'
INV.(out)=183.45 (C.I.T.-31)
C.I.T.-31
RIM=186.88'
INV.(in)=183.41 (CB-36)
CB-37
STA:25+43.02
OFFSET:39.07' L
RIM=186.95'
INV.(out)=183.24 (C.I.T.-56)
PROP. CBCI
PROP. F&G
PROP. RAIN GARDEN
C.I.T.-56
RIM=187.32'
INV.(in)=182.80 (CB-37)
88 LF - 12" RCP
S=0.005'
PROP. CBCI
PROP. F&G
CB-39
STA:28+04.77
OFFSET:28.64' L
RIM=187.74'
INV.(out)=184.50 (C.I.T.-59)
3 LF - 12" RCP
S=0.009'
C.I.T.-59
RIM=187.77'
INV.(in)=184.44 (CB-39)
DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C
R&S LP
PROP. LP (B.O.)
ADJ. B.O
R&R
HYDRANT (B.O.)
PROP. HYDRANT (B.O.)
R&S HYDRANT
ADJ. B.O.
PROP. ELECTRIC
LOAD CENTER
CB-61
STA:301+08.02
OFFSET:9.60' L
RIM=186.46'
INV.(in)=184.40 (CB-60)
INV.(out)=184.30 (C.I.T.-45)
PROP. CBCI
PROP. F&G
16 LF - 12" RCP
S=0.004'
MCB-7
STA:26+41.60
OFFSET:31.02' R
RIM=187.11'
REM. EXISTING CB
R&S F&G
PROP. MUNICIPAL CBCI
PROP. F&G
PC +73.91
PT +34.10
74 LF - 12" RCP
S=0.005 FT/FT
CB-92
STA:407+78.85
OFFSET:27.31' R
RIM=186.56'
INV.(out)=183.82 (CIT-85)
CB-93
STA:408+12.44
OFFSET:19.05' L
RIM=186.34'
INV.(out)=183.69 (CIT-95)
CIT-95
STA:408+32.50
OFFSET:35.58' L
RIM=186.93'
INV.(in)=183.45 (CB-92)
INV.(in)=183.45 (CB-93)
MCB-6
STA:23+56.24
OFFSET:42.02' R
RIM=186.87'
R&S LP
PROP. LP (B.O.)
3" U.G. ELECTRIC CONDUIT
12"X12" ELECTRIC PULLBOX (TYP.)
DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C
20 LF - 12" RCP
S=0.004'
CB-60
STA:301+09.76
OFFSET:13.85' R
RIM=186.37'
INV.(out)=184.50 (CB-61)
PROP. CBCI
PROP. F&G
PT +34.10
302
304
23
24
25
26
27
28
29

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	131	XXX
	PROJECT FILE NO.	608717	

DRAINAGE & UTILITY PLANS



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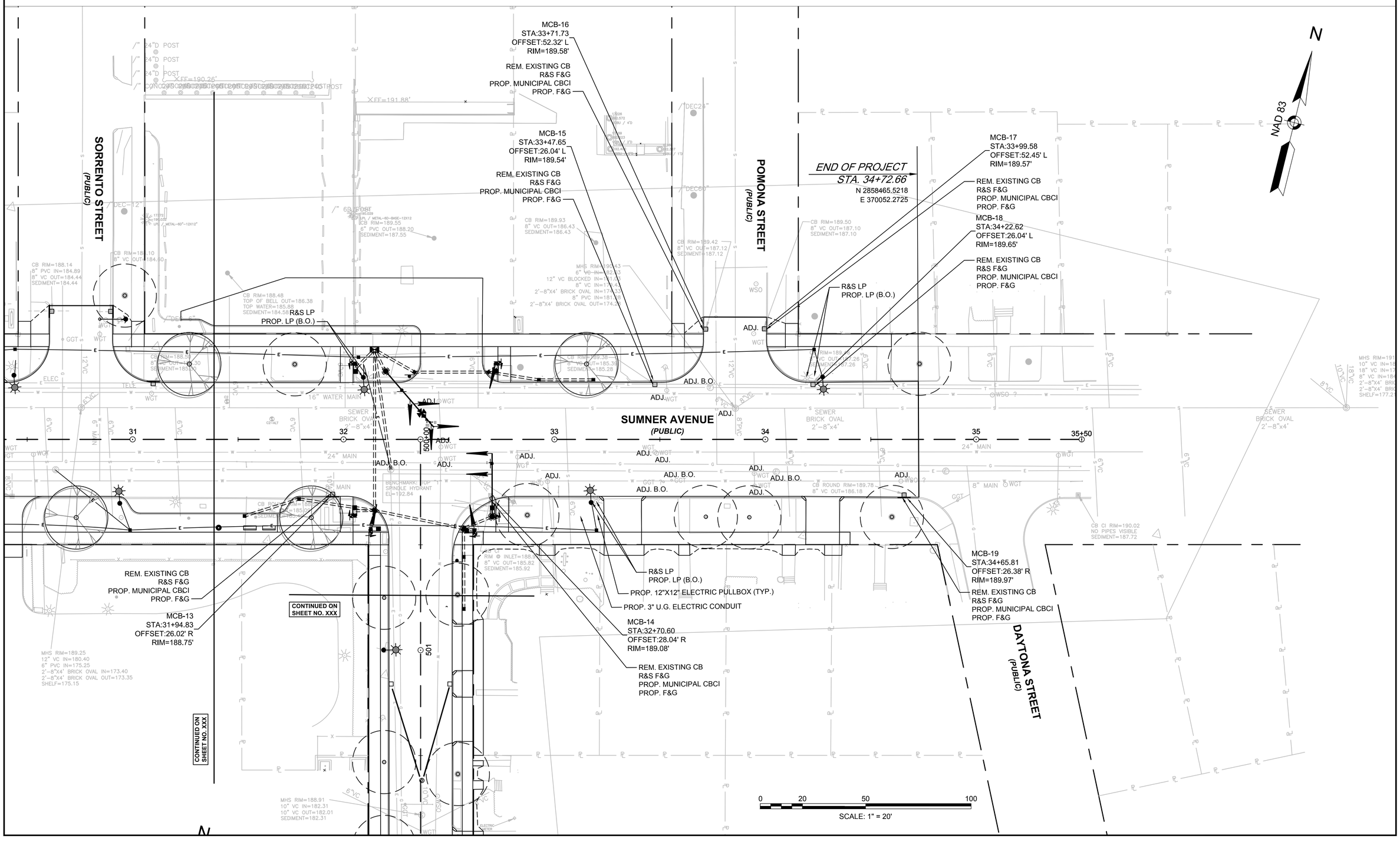
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	132	XXX
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS



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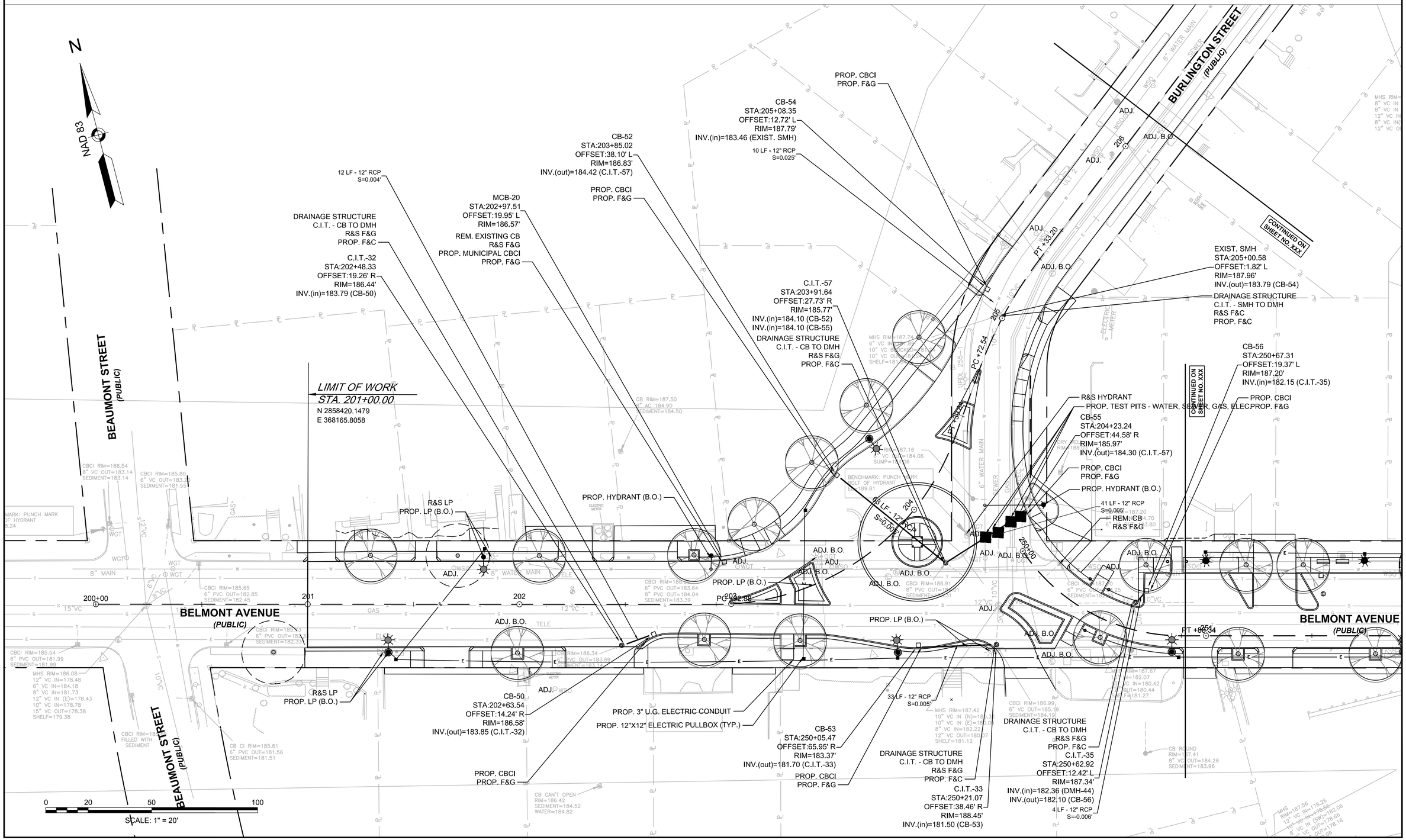
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	133	XXX
	PROJECT FILE NO.	608717	

DRAINAGE & UTILITY PLANS



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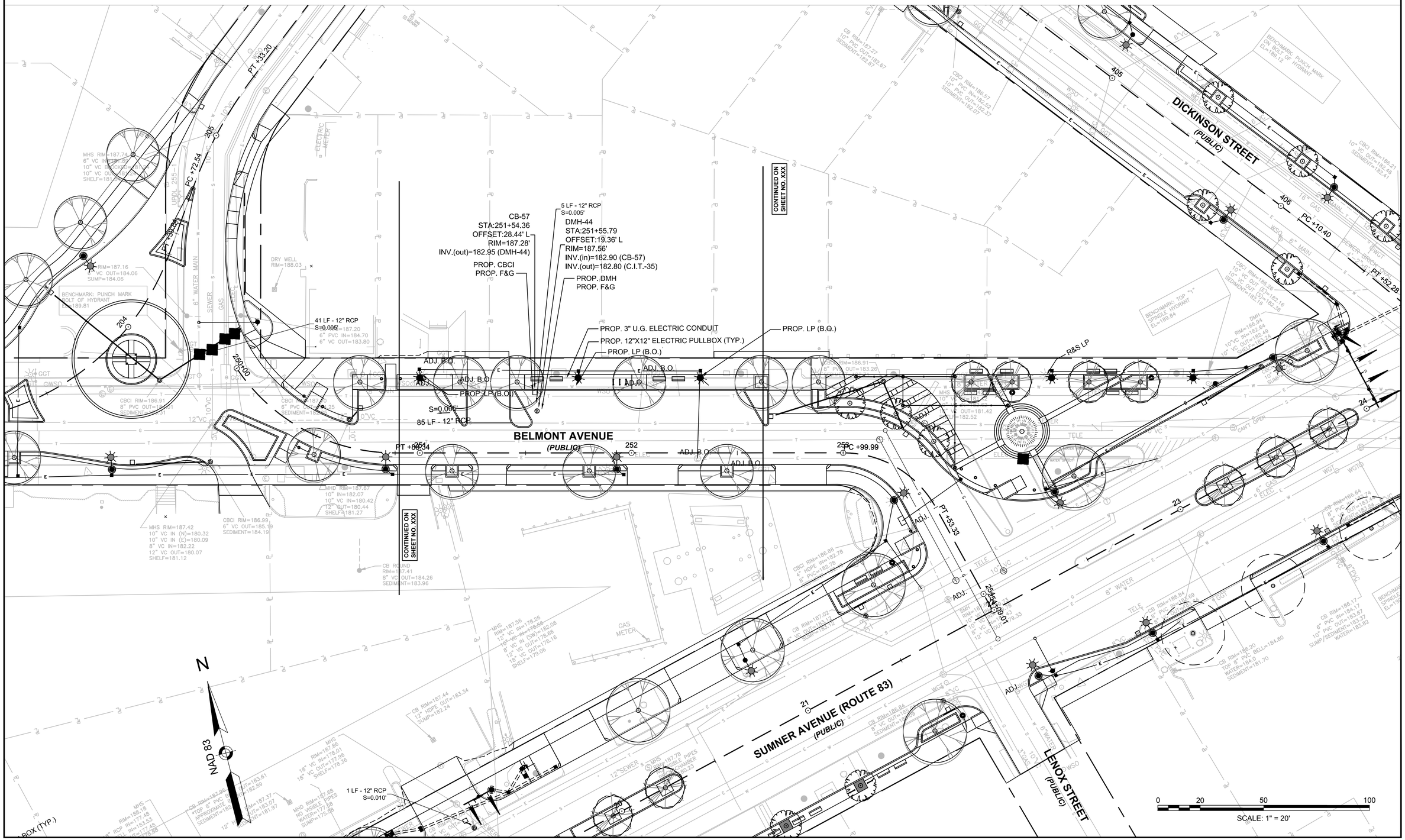
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	134	XXX
PROJECT FILE NO.		608717	

DRAINAGE & UTILITY PLANS



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20121457A70_UTL01.DWG Plotted on 4-May-2018 3:41 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	135	XXX
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS

N

NAD 83

SUMNER AVENUE (PUBLIC)

BELMONT AVENUE (ROUTE 83) (PUBLIC)

DICKINSON STREET (PUBLIC)

TRENTON ROAD (PUBLIC)

COMMONWEALTH AVENUE (PUBLIC)

PROP. RAIN GARDEN

PROP. CBCI
PROP. F&G
CB-66
STA:303+93.77
OFFSET:5.30' L
RIM=187.62'
INV.(out)=183.98 (CB-67)

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

C.I.T.-47
STA:303+71.58
OFFSET:22.60' L
RIM=187.24'
INV.(in)=183.91 (CB-64)

C.I.T.-45
STA:301+27.73
OFFSET:22.89' L
RIM=187.04'
INV.(in)=184.23 (CB-61)
INV.(in)=184.23 (CB-62)

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

PROP. CBCI
PROP. F&G
CB-64
STA:303+39.43
OFFSET:20.11' L
RIM=187.62'
INV.(out)=184.08 (C.I.T.-47)

28 LF - 12" RCP
S=0.005

27 LF - 12" RCP
S=0.002

PROP. CBCI
PROP. F&G
CB-62
STA:301+77.93
OFFSET:24.01' L
RIM=186.30'
INV.(out)=184.55 (C.I.T.-45)

R&S LP
PROP. LP (B.O.)

44 LF - 12" RCP
S=0.007

CB-67
STA:304+18.33
OFFSET:23.37' L
RIM=186.87'
INV.(in)=183.91 (CB-66)
INV.(out)=183.50 (C.I.T.-54)

PROP. CBCI
PROP. F&G

R&R LP

20 LF - 12" RCP
S=0.004'

C.I.T.-54
STA:304+41.94
OFFSET:22.58' L
RIM=186.85'
INV.(in)=183.40 (CB-70)
INV.(in)=183.40 (CB-67)

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

CB-70
STA:304+65.01
OFFSET:59.89' L
RIM=186.11'
INV.(out)=183.60 (C.I.T.-54)

PROP. LP (B.O.)

CONTINUED ON SHEET NO. XXX

40 LF - 12" RCP
S=0.005'

R&S HYDRANT

R&S LP

R&R LP

ADJ.

ADJ. B.O.

PROP. HYDRANT (B.O.)

PT +34.10

302 303 304 305 306

C.I.T.-46
STA:302+33.08
OFFSET:22.84' R
RIM=187.06'
INV.(in)=182.24 (CB-63)

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

CONTINUED ON SHEET NO. XXX

PROP. 3" U.G. ELECTRIC CONDUIT

PROP. 12"X12" ELECTRIC PULLBOX (TYP.)

PROP. CBCI
PROP. F&G

CB-63
STA:302+32.75
OFFSET:18.01' R
RIM=186.53'
INV.(out)=182.37 (C.I.T.-46)

1 LF - 12" RCP
S=0.025'

PROP. LP (B.O.)

29 LF - 12" RCP
S=0.027'

CB-65
STA:303+87.56
OFFSET:16.97' R
RIM=186.86'
INV.(out)=183.43 (C.I.T.-48)

PROP. CBCI
PROP. F&G

C.I.T.-48
STA:304+19.85
OFFSET:22.23' R
RIM=187.43'
INV.(in)=182.55 (CB-65)
INV.(in)=182.63 (CB-68)

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

CB-68
STA:304+19.08
OFFSET:17.41' R
RIM=186.92'
INV.(out)=183.35 (C.I.T.-48)

1 LF - 12" RCP
S=0.147'

PROP. CBCI
PROP. F&G

MCB-21
STA:304+70.97
OFFSET:49.69' R
RIM=186.97'

REM. EXISTING CB
R&S F&G
PROP. MUNICIPAL CBCI
PROP. F&G

MCB-22
STA:305+16.60
OFFSET:46.97' R
RIM=187.70'
INV.(out)=183.95 (C.I.T.-49)

REM. EXISTING CB
R&S F&G
PROP. MUNICIPAL CBCI
PROP. F&G

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C
C.I.T.-49
STA:305+23.85
OFFSET:22.76' R
RIM=187.53'
INV.(in)=183.87 (CB-72)
INV.(in)=183.87 (MCB-22)

6 LF - 12" RCP
S=0.003'

CB-72
STA:305+14.07
OFFSET:21.93' R
RIM=187.14'
INV.(out)=183.90 (C.I.T.-49)

PROP. CBCI
PROP. F&G

21 LF - 12" RCP
S=0.003'

15 LF - 12" RCP
S=0.008 FT/FT

409 410

0 20 50 100

SCALE: 1" = 20'

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SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	136	XXX
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS

N

NAD 83

MCB-26
STA:503+91.50
OFFSET:15.33' R
RIM=188.04'

REM. EXISTING CB
R&S F&G
PROP. MUNICIPAL CBCI
PROP. F&G

PROP. LP (B.O.)

REM. EXISTING CB
R&S F&G
PROP. MUNICIPAL CBCI
PROP. F&G

MCB-23
STA:306+09.86
OFFSET:23.03' L
RIM=186.80'

CONTINUED ON SHEET NO. XXX

ORMOND STREET (PUBLIC)

PROP. LP (B.O.)

PROP. 12"X12" ELECTRIC PULLBOX (TYP.)

PROP. 3" U.G. ELECTRIC CONDUIT

ADJ. B.O.

CONTINUED ON SHEET NO. XXX

LIMIT OF WORK
STA. 308+52.39
N 2857962.5315
E 369955.0616

MCB-27
STA:504+14.47
OFFSET:14.05' L
RIM=187.45'

REM. EXISTING CB
R&S F&G
PROP. MUNICIPAL CBCI
PROP. F&G

R&S HYDRANT
PROP. HYDRANT (B.O.)

MCB-25
STA:308+50.62
OFFSET:22.63' L
RIM=187.39'

REM. EXISTING CB
R&S F&G
PROP. MUNICIPAL CBCI
PROP. F&G

BENCHMARK: PUNCH MARK ON BOLT OF HYDRANT EL=189.50

BENCHMARK: PUNCH MARK ON BOLT OF HYDRANT EL=190.12

305 306 307 308 309 309+32.36

BELMONT AVENUE (ROUTE 83)
(PUBLIC)

504+53.65 ADJ.

R&S LP
PROP. LP (B.O.)

MCB-24
STA:307+42.81
OFFSET:22.15' R
RIM=187.08'

REM. EXISTING CB
R&S F&G
PROP. MUNICIPAL CBCI
PROP. F&G

21 LF - 12" RCP
S=0.003'

TRENTON STREET (PUBLIC)

COMMONWEALTH AVENUE (PUBLIC)

0 20 50 100
SCALE: 1" = 20'

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SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	137	XXX
	PROJECT FILE NO.	608717	

DRAINAGE & UTILITY PLANS

N

NAD 83

LIMIT OF WORK
STA. 401+06.43
N 2858697.3479
E 368688.9831

PROJECT END
STA 401+06.43
N2858697.3479
E368688.9831

REM. EXISTING CB
R&S F&G
PROP. CBCI
PROP. F&G

CB-82
STA:401+07.72
OFFSET:19.68' L
RIM=0.00'

GRENADA TERRACE
(PUBLIC)

REM. EXISTING CB
R&S F&G

8 LF - 12" RCP
S=0.019 FT/FT
CB-86
STA:402+34.63
OFFSET:22.31' L
RIM=187.62'
INV.(out)=182.44 (CB-112)

PROP. CBCI
PROP. F&G

R&S LP
REM. EXISTING CB
R&S F&G
PROP. MUNICIPAL CBCI
PROP. F&G
MCB-31
STA:404+23.98
OFFSET:19.15' L
RIM=186.91'

CONTINUED ON SHEET NO. XXX

2 LF - 12" RCP
S=0.007'

BENCHMARK: PUNCH MARK ON BOLT OF HYDRANT
EL=189.12

PROP. LP (B.O.)

R&S LP
PROP. LP (B.O.)

DICKINSON STREET
(PUBLIC)

DICKINSON STREET
(PUBLIC)

PC +80.47

PT +46.60

PC +77.50

PC +10.40

PT +52.28

401 402 403 404 405 406

PROP. RAIN GARDEN

PROP. 12"X12" ELECTRIC PULLBOX (TYP.)

PROP. 3" U.G. ELECTRIC CONDUIT

CB-87
STA:402+31.82
OFFSET:19.30' R
RIM=187.49'
INV.(out)=182.30 (C.I.T.-109)

PROP. CBCI
PROP. F&G

2 LF - 12" RCP
S=0.008 FT/FT

C.I.T.-109
STA:402+25.44
OFFSET:18.64' R
RIM=187.86'
INV.(in)=182.25 (CB-87)

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

PROP. RAIN GARDEN

MCB-30
STA:401+89.44
OFFSET:34.27' R
RIM=0.00'

REM. EXISTING CB
R&S F&G
PROP. MUNICIPAL CBCI
PROP. F&G

MCB-28
STA:401+49.64
OFFSET:18.53' R
RIM=0.00'

REM. EXISTING CB
R&S F&G
PROP. MUNICIPAL CBCI
PROP. F&G

MCB-29
STA:401+63.42
OFFSET:39.65' R
RIM=0.00'

REM. EXISTING CB
R&S F&G
PROP. MUNICIPAL CBCI
PROP. F&G

BURLINGTON STREET
(PUBLIC)

CONTINUED ON SHEET NO. XXX

PROP. RAIN GARDEN

CB RIM=187.27
10" PVC OUT=182.67
SEDIMENT=182.67

2 LF - 12" RCP
S=0.010 FT/FT

C.I.T.-110
STA:404+23.33
OFFSET:18.73' R
RIM=186.91'
INV.(in)=182.47 (CB-88)

DRAINAGE STRUCTURE
C.I.T. - CB TO DMH
R&S F&G
PROP. F&C

CB-88
STA:404+27.39
OFFSET:22.95' R
RIM=187.40'
INV.(out)=182.53 (C.I.T.-110)

PROP. CBCI
PROP. F&G

R&S LP

PROP. LP (B.O.)

R&S LP

PT +53.33

25+00.00

25+99.99

25+99.01

24

23

0 20 50 100

SCALE: 1" = 20'

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SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	138	XXX
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS

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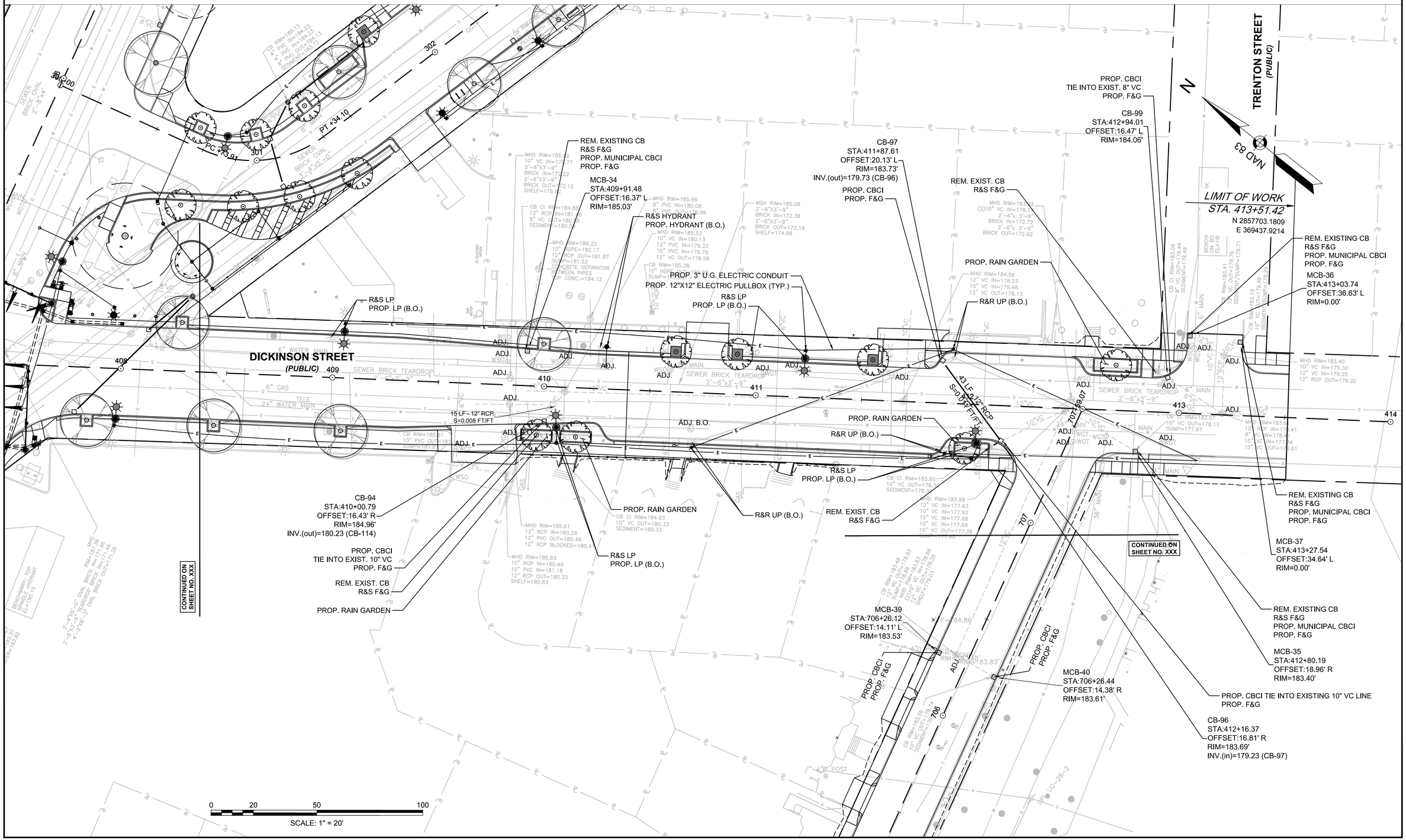

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SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	139	XXX
	PROJECT FILE NO. 608717		

DRAINAGE & UTILITY PLANS

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LAYER STATE: -
MS VIEW: -

A STREET
(PUBLIC)

SUMNER AVENUE
(PUBLIC)

ORMOND STREET
(PUBLIC)

ORMOND STREET
(PUBLIC)

NT AVENUE (ROUTE 83)
(PUBLIC)

CB-77
STA:501+16.06
OFFSET:13.90' L
RIM=188.59'
INV.(out)=184.90 (DMH-108)

PROP. CBCI
PROP. F&G

44 LF - 12" RCP
S=0.012'

REM. LP (B.O)
PROP. LP (B.O.)

CB-76
STA:501+16.02
OFFSET:13.94' R
RIM=188.59'
INV.(out)=184.90 (DMH-108)

PROP. CBCI
PROP. F&G

44 LF - 12" RCP
S=0.012'

R&R HYDRANT (B.O.)

DMH-108
STA:501+61.87
OFFSET:0.61' L
RIM=188.63'
INV.(in)=184.32 (CB-76)
INV.(in)=184.32 (CB-77)

PROP. DMH
TIE INTO EXIST. 10" VC
PROP. F&C

REM. LP (B.O)
PROP. LP (B.O.)

R&S LP
PROP. LP (B.O.)

REM. EXISTING CB
R&S F&G
PROP. MUNICIPAL CBCI
PROP. F&G

LIMIT OF WORK
STA. 308+52.39
N 2857862.5315
E 3899553.0616

CONTINUED ON SHEET NO. XXX

CONTINUED ON SHEET NO. XXX

ADJ.
ADJ. B.O.

500+00
501
502
503
504
504+53.65
309+32.36
309
308
307
33
34
32
31

N
NAD 83

0 20 50 100
SCALE: 1" = 20'

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	140	XXX
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS

N

NAD 83

LOCATION OF PROP. U.G. ELEC. IS SCHEMATIC & WILL BE FINALIZED AT 75% DESIGN

DRAINAGE S
C.I.T. -

ADJ. B.O.

CONTINUED ON SHEET NO. XXX

LIMIT OF WORK
STA. 603+36.00
N 2858039.5923
E 367484.1303

1 LF - 12" RCP
S=0.011'

CB RIM=184.84
10" CI OUT=
SUMP=184.84

CB RIM=184.76
6" PVC IN=181.71
6" PVC OUT=180.76
SUMP=180.46

MHS RIM=185.78
15" VC IN=174.88
8" VC IN (N)=181.38
8" VC IN (S)=177.98
15" VC OUT=174.68

MHD RIM=185.39
10" IN=180.83
10" RCP OUT=178.26

CB RIM=184.72
10" VC OUT=181.77
SUMP=181.72

CB RIM=184.69
10" PVC OUT=183.59
SHELF=184.39

CB RIM=184.66

POSSIBLE TREATMENT UNIT
CB RIM=184.66
10" PVC IN=180.11
6" PVC IN=180.16
OUTLET NOT VISIBLE
SHELF=181.26

CB RIM=184.92
10" VC OUT=180.57
SUMP=180.57

CBCI RIM=184.51
10" PVC OUT=183.31
SHELF=184.11

CB RIM=184.51'

CB RIM=184.74'

POSSIBLE TREATMENT UNIT
CB RIM=184.74
10" PVC IN=181.54
6" PVC IN=181.24
OUTLET NOT VISIBLE
SHELF=181.44

BENCHMARK: PUNCH MARK
BOLT ON HYDRANT
EL=187.76

MHS RIM=185.64
24" VC IN=172.89
12" VC IN=174.84
24" VC OUT=172.79
SHELF=173.14

MHS RIM=185.68
15" PVC IN=174.23
8" PVC IN (NW)=180.13
8" PVC IN (NW)=178.68
15" VC OUT=174.23
SHELF=175.68

CB RIM=186.021
12" HDPE OUT=185.61
SUMP=180.92

CB RIM=185.61
12" HDPE OUT=181.46
SUMP=177.41

CB RIM=184.83
FILLED WITH CEMENT

MHD RIM=185.78

MHD RIM=184.95
8" VC OUT=181.05
SUMP=180.95

CB RIM=184.72'

CB RIM=184.72
10" VC OUT=181.77
SUMP=181.72

CB RIM=184.84'

MHD RIM=185.39
10" IN=180.83
10" RCP OUT=178.26
RIM=185.39'

MHD RIM=185.64
10" VC IN=180.64
10" VC OUT=176.38

ADJ.

600+00 | 601 | 602 | 603 | 604 | 605 | 605+39.50

OAKLAND STREET
(PUBLIC)

SUMNER AVENUE (ROUTE 83)
(PUBLIC)

2 LF - 12" RCP
S=0.009'

1 LF - 12" RCP
S=0.010'

10" DI
10" PVC
6" WATER
24" WATER
12" VC
15" PVC
ELEC
GAS
SEWER
4" CI WATER
6" CL PVC
WGT
GGT
WSO
ELEC
SEWER
G
S
W
E
T

0 20 50 100
SCALE: 1" = 20'

Plotted on 4-May-2018 3:42 PM

20121457A70_UTL01.DWG

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LAYER STATE: -
MS VIEW: -

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	141	XXX
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS

NAD 83

OAKLAND STREET
(PUBLIC)

SUMNER AVENUE (ROUTE 83)
(PUBLIC)

FOREST PARK SHARED-USE PATH

CONTINUED ON SHEET NO. XXX

CONTINUED ON SHEET NO. XXX

1 LF - 12" RCP S=0.011'

1 LF - 12" RCP S=0.009'

1 LF - 12" RCP S=0.010'

PROP. 3" U.G. ELECTRIC CONDUIT
PROP. 12"X12" ELECTRIC PULLBOX (TYP.)

PROP. 3" U.G. ELECTRIC CONDUIT
PROP. 12"X12" ELECTRIC PULLBOX (TYP.)

604 605 605+89.50 800+00 PC +11.17 PT +39.15 PC +98.88 801 802 PT +00.08 803 PC +67.78 804 PT +90.00 805

0 20 50 100
SCALE: 1" = 20'

File Path: J:\DWG\P2012\1457\A70\Civil\Plan\20121457A70_UTL01.dwg Layout: HPN 17 Plotted: Fri, May 04, 2018 - 3:43 PM User: dmayboroda
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LAYER STATE: -
MS VIEW: -

20121457A70_UTL01.DWG Plotted on 4-May-2018 3:43 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	142	XXX
PROJECT FILE NO.	608717		

DRAINAGE & UTILITY PLANS

20121457A70_UTL01.DWG Plotted on 4-May-2018 3:43 PM

PROP. 3" U.G. ELECTRIC CONDUIT
PROP. 12"X12" ELECTRIC PULLBOX (TYP.)

SHARED-USE PATH

PC +97.78

PI +30.00

PC +21.17

24" water

36" water

CONTINUED ON SHEET NO. XXX

CONTINUED ON SHEET NO. XXX

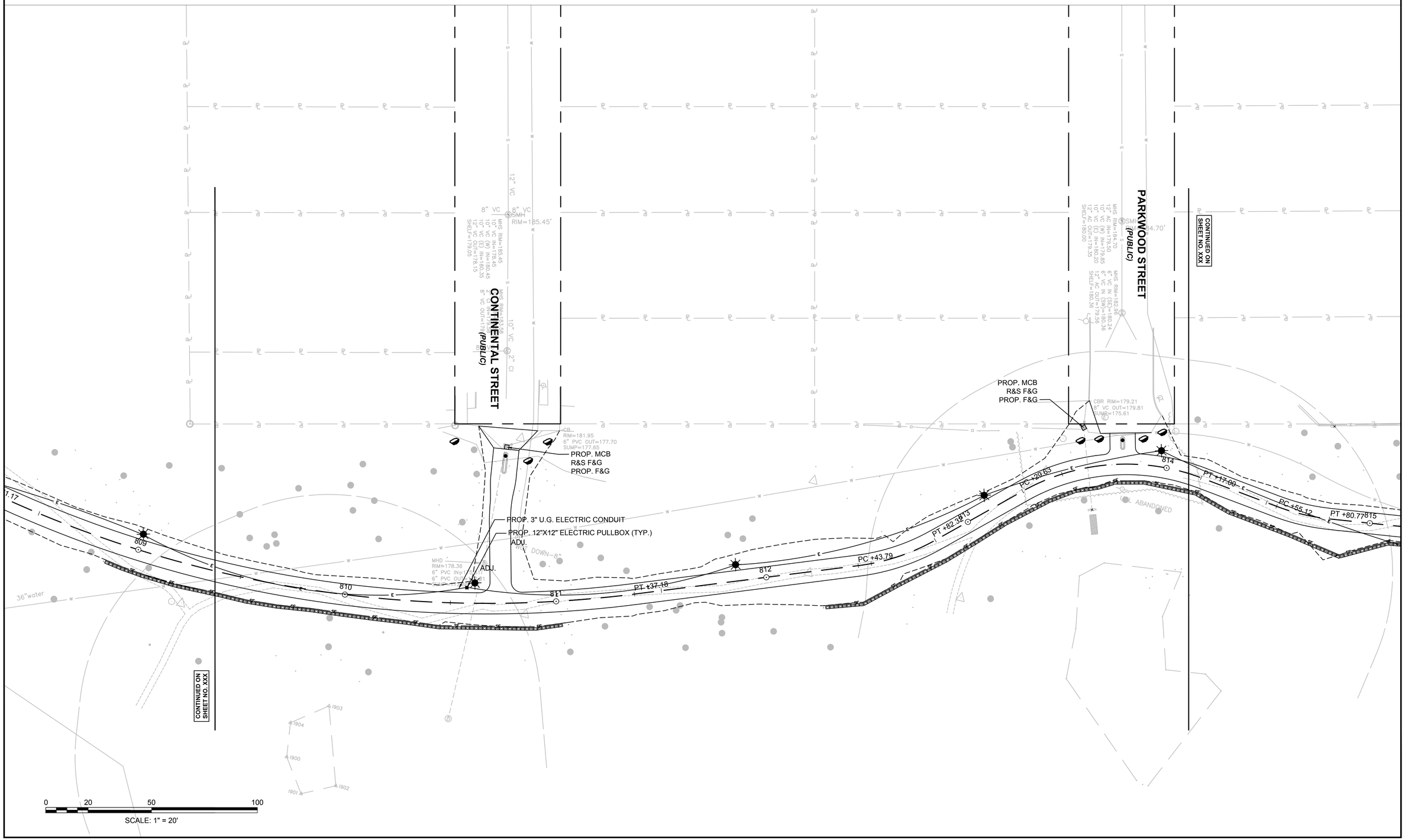
0 20 50 100
SCALE: 1" = 20'

File Path: J:\DWG\P20121457A70\Civil\Plan\20121457A70_UTL01.dwg Layout: HPN 18 Plotted: Fri, May 04, 2018 - 3:43 PM User: dmayboroda
MS VIEW: - LAYER STATE: -
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	143	XXX
PROJECT FILE NO.		608717	

DRAINAGE & UTILITY PLANS



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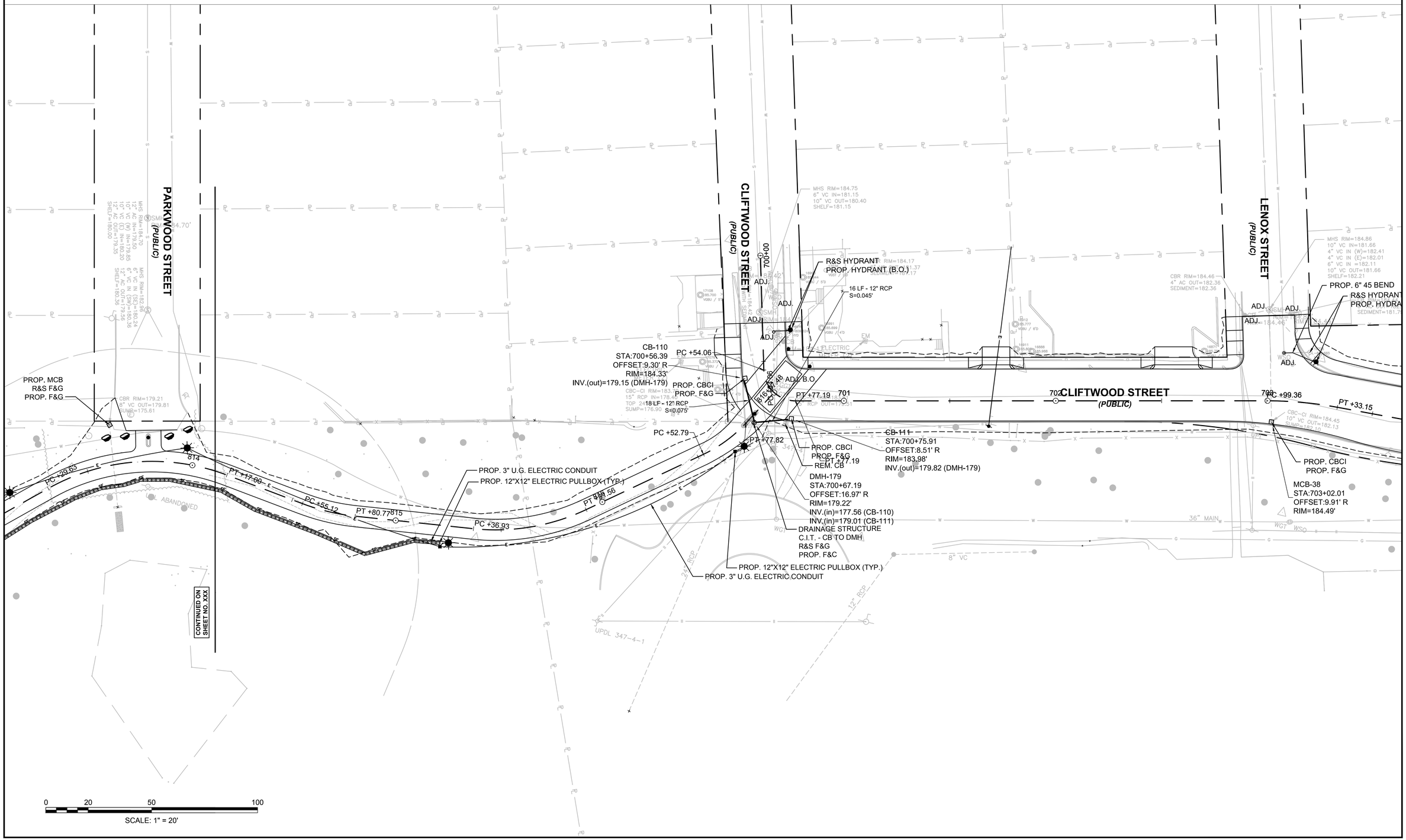
MS VIEW: - LAYER STATE: - Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	144	XXX
	PROJECT FILE NO.	608717	

DRAINAGE & UTILITY PLANS



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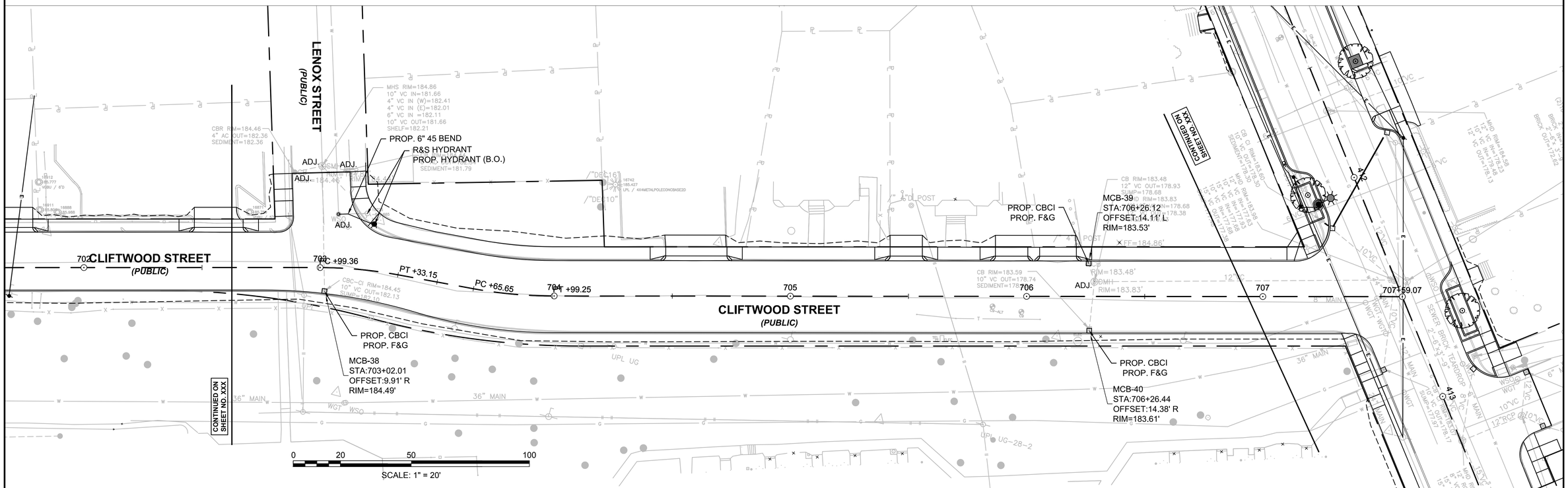
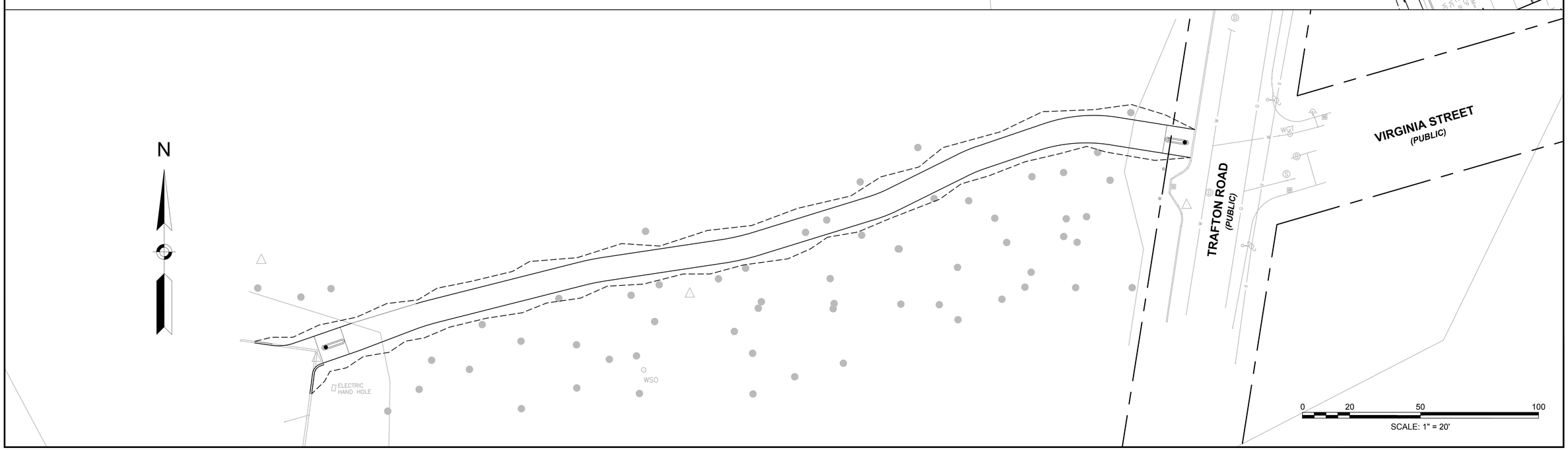
20121457A70_UTL01.DWG Plotted on 4-May-2018 3:43 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	145	XXX
PROJECT FILE NO.		608717	

DRAINAGE & UTILITY PLANS





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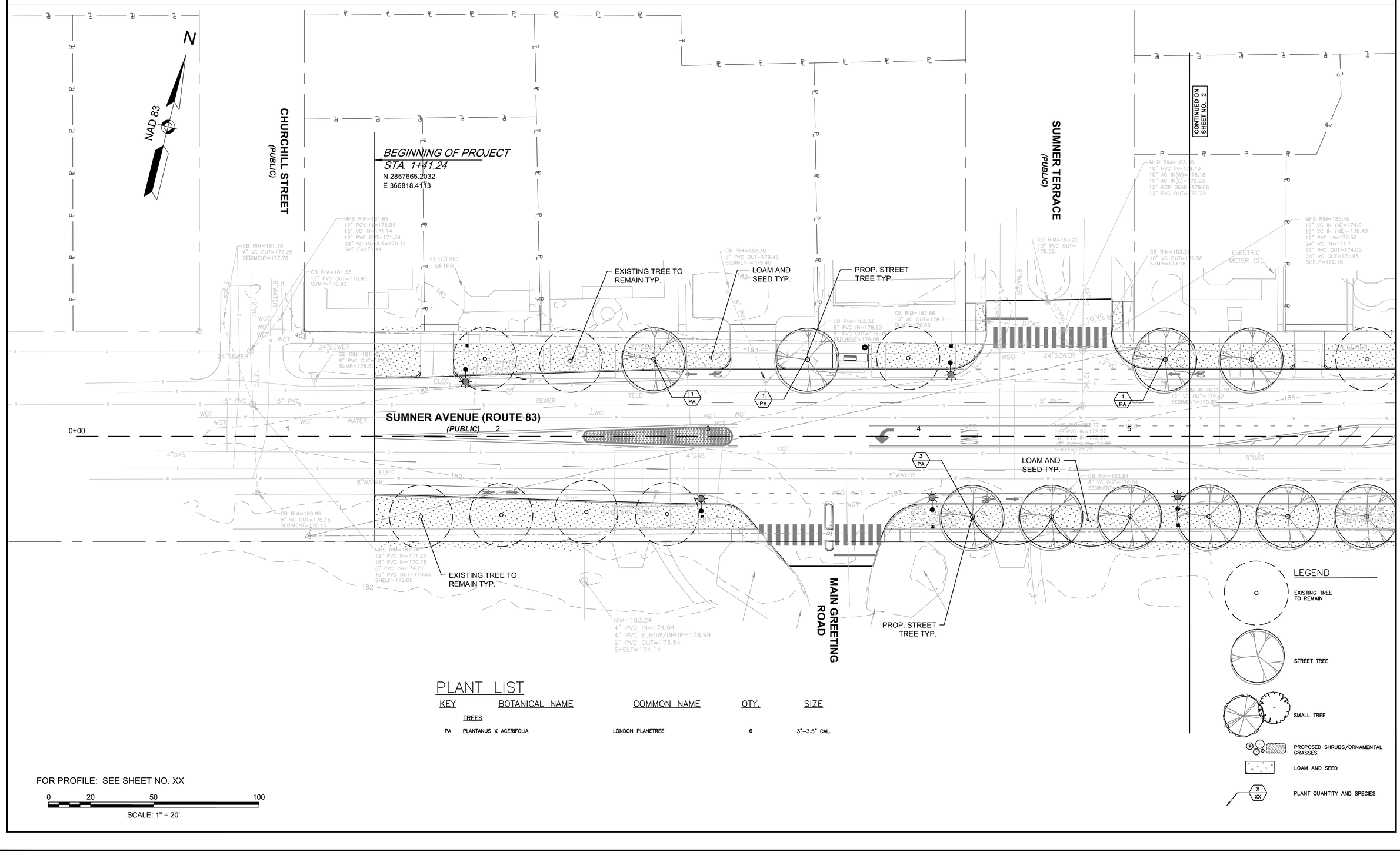
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	146	XXX
PROJECT FILE NO.	608717		

PLANTING PLANS



PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	TREES			
PA	PLANTANUS X ACERIFOLIA	LONDON PLANETREE	6	3"–3.5" CAL.

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES (X / XX)

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100

SCALE: 1" = 20'

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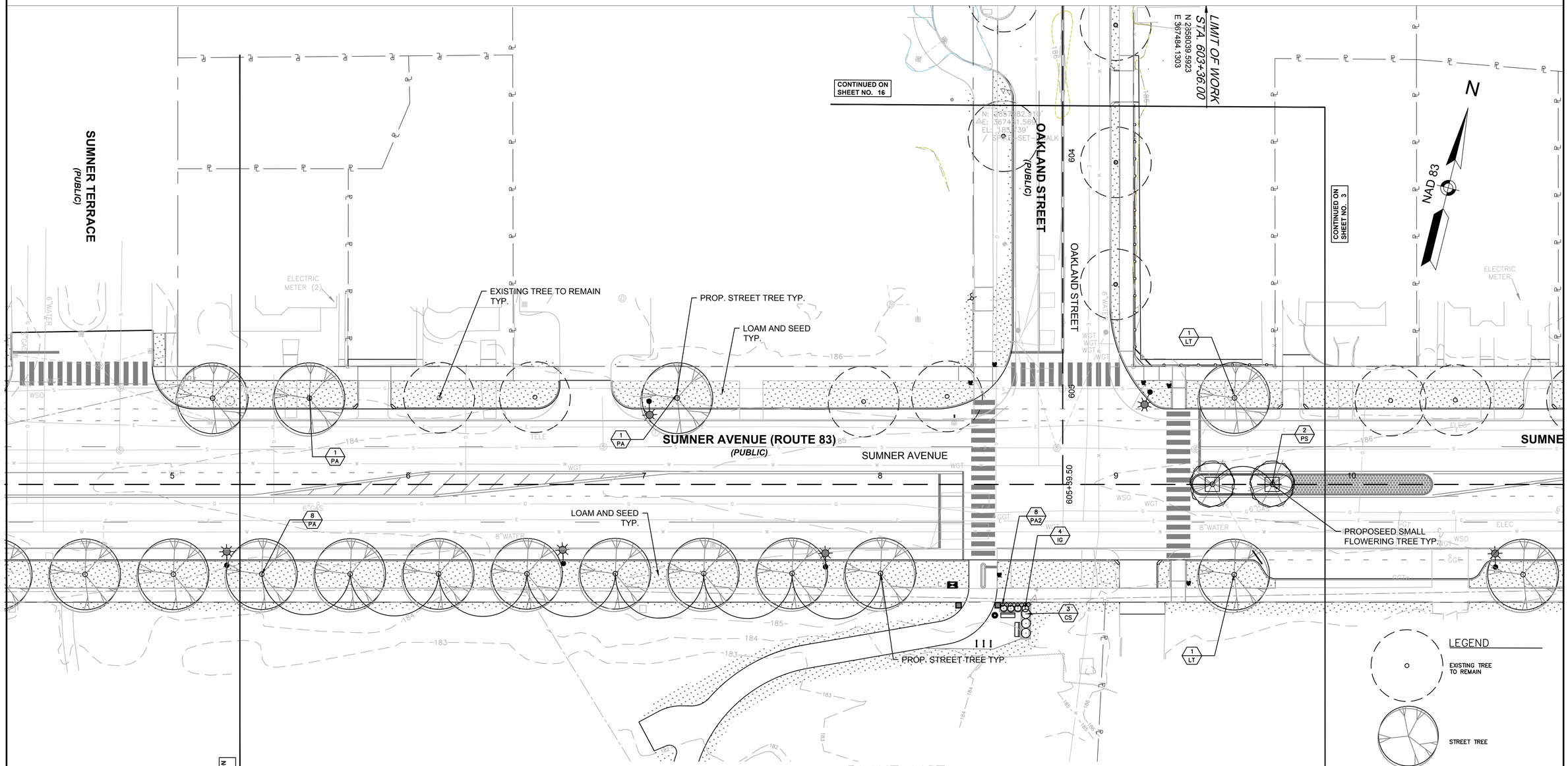
20121457A70_LSP01.DWG Plotted on 14-May-2018 12:49 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	147	XXX
PROJECT FILE NO.	608717		

PLANTING PLANS



FOR PROFILE: SEE SHEET NO. XX

0 20 50 100

SCALE: 1" = 20'

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	TREES			
LT	LIRIODENDRON TULIPIFERA	TULIPTREE	2	3"–3.5" CAL.
PA	PLANTANUS X ACERIFOLIA	LONDON PLANETREE	10	3"–3.5" CAL.
PS	PRUNUS SARGENTII 'COLUMNARIS'	COLUMNAR FLOWERING CHERRY	2	2.5"–3" CAL.
	SHRUBS			
CS	CORNUS SERICEA 'FARROW–ARCTIC FIRE'	ARCTIC FIRE RED TWIG DOGWOOD	3	3 GAL.
IG	ILEX GLABRA COMPACTA	COMPACT INKBERRY	4	2 GAL.
	ORNAMENTAL GRASSES / PERENNIALS			
PA2	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	8	1 GAL.

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- X / XX — PLANT QUANTITY AND SPECIES

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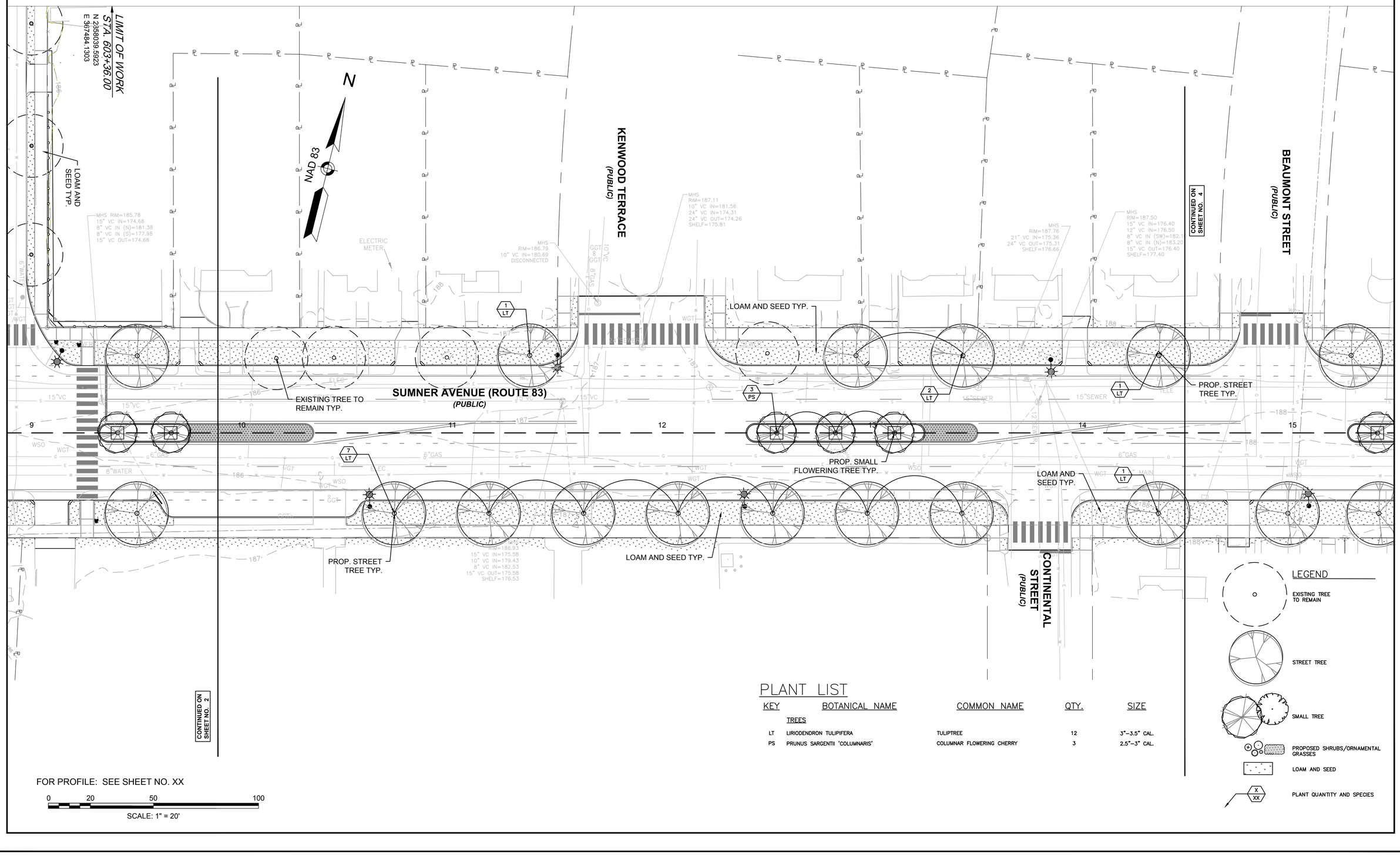
20121457A70_LSP01.DWG Plotted on 14-May-2018 12:49 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	148	XXX
PROJECT FILE NO.	608717		

PLANTING PLANS



PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	TREES			
LT	LIRIODENDRON TULIPIFERA	TULIPTREE	12	3"–3.5" CAL.
PS	PRUNUS SARGENTII 'COLUMNARIS'	COLUMNAR FLOWERING CHERRY	3	2.5"–3" CAL.

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES (X / XX)

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100

SCALE: 1" = 20'

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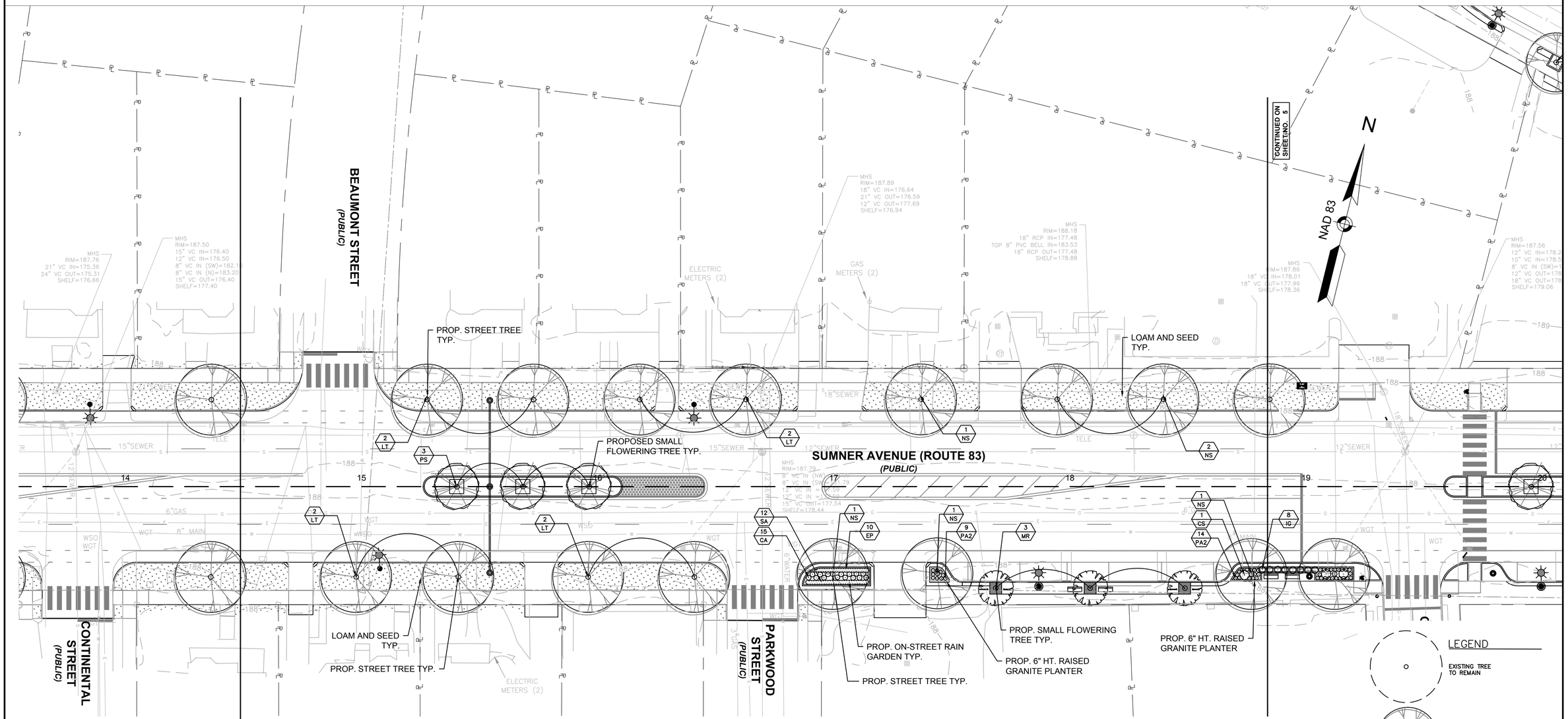
20121457A70_LSP01.DWG Plotted on 14-May-2018 12:49 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	149	XXX
	PROJECT FILE NO.	608717	

PLANTING PLANS



FOR PROFILE: SEE SHEET NO. XX

0 20 50 100

SCALE: 1" = 20'

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	TREES			
LT	LIRIODENDRON TULIPIFERA	TULIPTREE	8	3"–3.5" CAL.
MR	MALUS X 'ROYAL RAINDROPS'	ROYAL RAINDROPS CRABAPPLE	3	2.5"–3" CAL.
NS	NYSSA SYLVATICA	BLACK TUPELO TREE	6	3"–3.5" CAL.
PS	PRUNUS SARGENTII 'COLUMNARIS'	COLUMNAR FLOWERING CHERRY	3	2.5"–3" CAL.
	SHRUBS			
CS	CORNUS SERICEA 'FARROW–ARCTIC FIRE'	ARCTIC FIRE RED TWIG DOGWOOD	1	3 GAL.
IG	ILEX GLABRA COMPACTA	COMPACT INKBERRY	8	2 GAL.
	ORNAMENTAL GRASSES/PERENNIALS			
CA	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	15	1 GAL.
EP	ECHINACEA PURPUREA 'POW WOW WILD BERRY'	POW WOW WILD BERRY ECHINACEA	10	1 GAL.
PA2	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	23	1 GAL.
SA	SEDUM 'AUTUMN JOY'	AUTUMN JOY SEDUM	12	1 GAL.

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES (X / XX)

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Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
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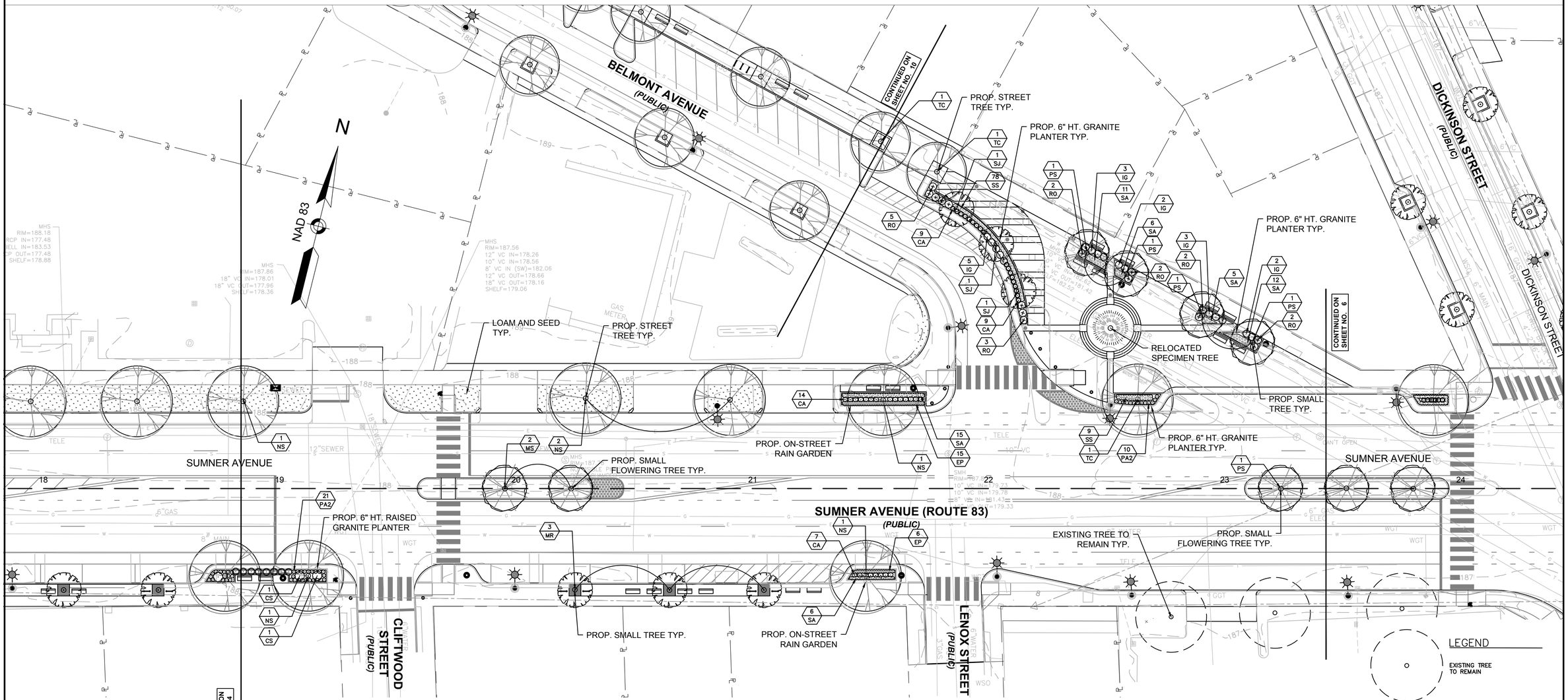
Plotted on 14-May-2018 12:49 PM
20121457A70_LSP01.DWG

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	150	XXX
PROJECT FILE NO.	608717		

PLANTING PLANS



PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	TREES			
MS	MALUS X 'SPRING SNOW'	SPRING SNOW CRABAPPLE	2	2.5"–3" CAL.
MR	MALUS X 'ROYAL RAINDROPS'	ROYAL RAINDROPS CRABAPPLE	3	2.5"–3" CAL.
NS	NYSSA SYLVATICA	BLACK TUPELO TREE	6	3"–3.5" CAL.
PS	PYRUS SARGENTII 'COLUMNARIS'	COLUMNAR FLOWERING CHERRY	5	2.5"–3" CAL.
SJ	STYRAX JAPONICUS	JAPANESE SNOWBELL	3	2"–2.5" CAL. (SINGLE STEM)
TC	TILIA CORDATA	LITTLE LEAF LINDEN	3	3"–3.5" CAL.
	SHRUBS			
CS	CORNUS SERICEA 'FARROW–ARCTIC FIRE'	ARCTIC FIRE RED TWIG DOGWOOD	2	3 GAL.
IG	ILEX GLABRA COMPACTA	COMPACT INKBERRY	15	2 GAL.
RO	ROSA 'OSO EASY' MANGO SALSA	MANGO SALSA LANDSCAPE ROSE	16	2 GAL.
	ORNAMENTAL GRASSES/PERENNIALS			
CA	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	39	1 GAL.
EP	ECHINACEA PURPUREA 'POW WOW WILD BERRY'	POW WOW WILD BERRY ECHINACEA	21	1 GAL.
PA2	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	31	1 GAL.
SA	SEDUM 'AUTUMN JOY'	AUTUMN JOY SEDUM	55	1 GAL.
SS	SALVIA X SYLVESTRIS 'MAINACHT'	MAY NIGHT SALVIA	87	1 GAL.

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100

SCALE: 1" = 20'

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES (X / XX)

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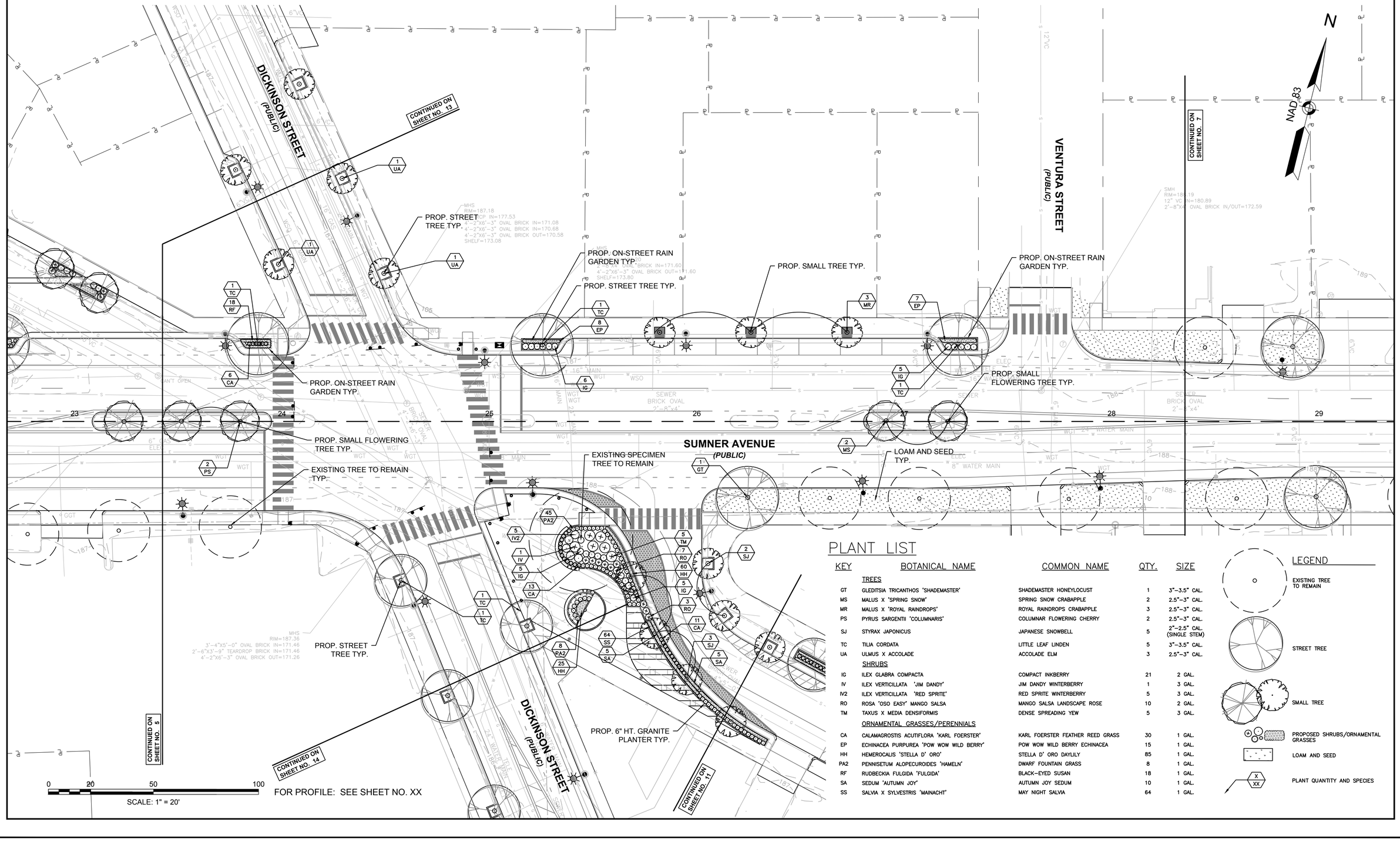
20121457A70_LSP01.DWG Plotted on 14-May-2018 12:49 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	151	XXX
	PROJECT FILE NO.	608717	

PLANTING PLANS



PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	TREES			
GT	GLEDITSIA TRICANTHOS 'SHADEMASTER'	SHADEMASTER HONEYLOCUST	1	3"–3.5" CAL.
MS	MALUS X 'SPRING SNOW'	SPRING SNOW CRABAPPLE	2	2.5"–3" CAL.
MR	MALUS X 'ROYAL RAINDROPS'	ROYAL RAINDROPS CRABAPPLE	3	2.5"–3" CAL.
PS	PYRUS SARGENTII 'COLUMNARIS'	COLUMNAR FLOWERING CHERRY	2	2.5"–3" CAL.
SJ	STYRAX JAPONICUS	JAPANESE SNOWBELL	5	2"–2.5" CAL. (SINGLE STEM)
TC	TILIA CORDATA	LITTLE LEAF LINDEN	5	3"–3.5" CAL.
UA	ULMUS X ACCOLADE	ACCOLADE ELM	3	2.5"–3" CAL.
	SHRUBS			
IG	ILEX GLABRA COMPACTA	COMPACT INKBERRY	21	2 GAL.
IV	ILEX VERTICILLATA 'JIM DANDY'	JIM DANDY WINTERBERRY	1	3 GAL.
IV2	ILEX VERTICILLATA 'RED SPRITE'	RED SPRITE WINTERBERRY	5	3 GAL.
RO	ROSA 'OSO EASY' MANGO SALSA	MANGO SALSA LANDSCAPE ROSE	10	2 GAL.
TM	TAXUS X MEDIA DENSIFORMIS	DENSE SPREADING YEW	5	3 GAL.
	ORNAMENTAL GRASSES/PERENNIALS			
CA	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	30	1 GAL.
EP	ECHINACEA PURPUREA 'POW WOW WILD BERRY'	POW WOW WILD BERRY ECHINACEA	15	1 GAL.
HH	HEMEROCALIS 'STELLA D' ORO'	STELLA D' ORO DAYLILY	85	1 GAL.
PA2	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	8	1 GAL.
RF	RUDBECKIA FULGIDA 'FULGIDA'	BLACK–EYED SUSAN	18	1 GAL.
SA	SEDUM 'AUTUMN JOY'	AUTUMN JOY SEDUM	10	1 GAL.
SS	SALVIA X SYLVESTRIS 'MAINACHT'	MAY NIGHT SALVIA	64	1 GAL.

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES (X / XX)

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MS VIEW:- LAYER STATE:-
20121457A70_LSP01.DWG Plotted on 14-May-2018 12:50 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	152	XXX
	PROJECT FILE NO.	608717	

PLANTING PLANS

N

NAD 83

VENTURA STREET
(PUBLIC)

SORRENTO STREET
(PUBLIC)

SUMNER AVENUE
(PUBLIC)

CONTINUED ON SHEET NO. 8

CONTINUED ON SHEET NO. 6

EXISTING TREE TO REMAIN TYP.

PROP. STREET TREE TYP.

LOAM AND SEED TYP.

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100
SCALE: 1" = 20'

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	TREES			
AR	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	5	3"–3.5" CAL.

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- X / XX — PLANT QUANTITY AND SPECIES

Plotted on 14-May-2018 12:50 PM
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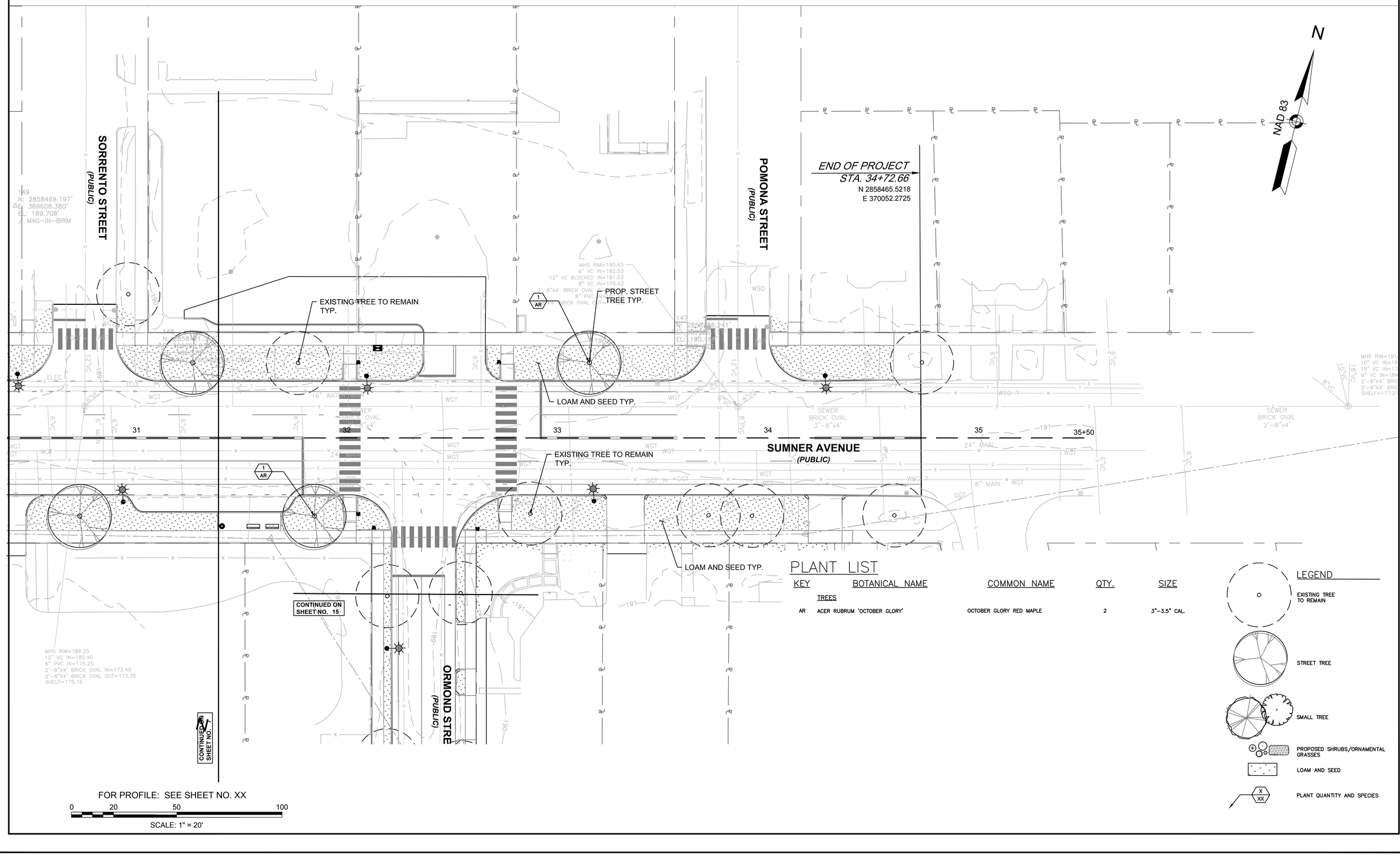
LAYER STATE: -
MS VIEW: -

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	153	XXX
	PROJECT FILE NO. 608717		

PLANTING PLANS



PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	TREES			
AR	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2	3"–3.5" CAL.

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- X / XX — PLANT QUANTITY AND SPECIES

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100

SCALE: 1" = 20'

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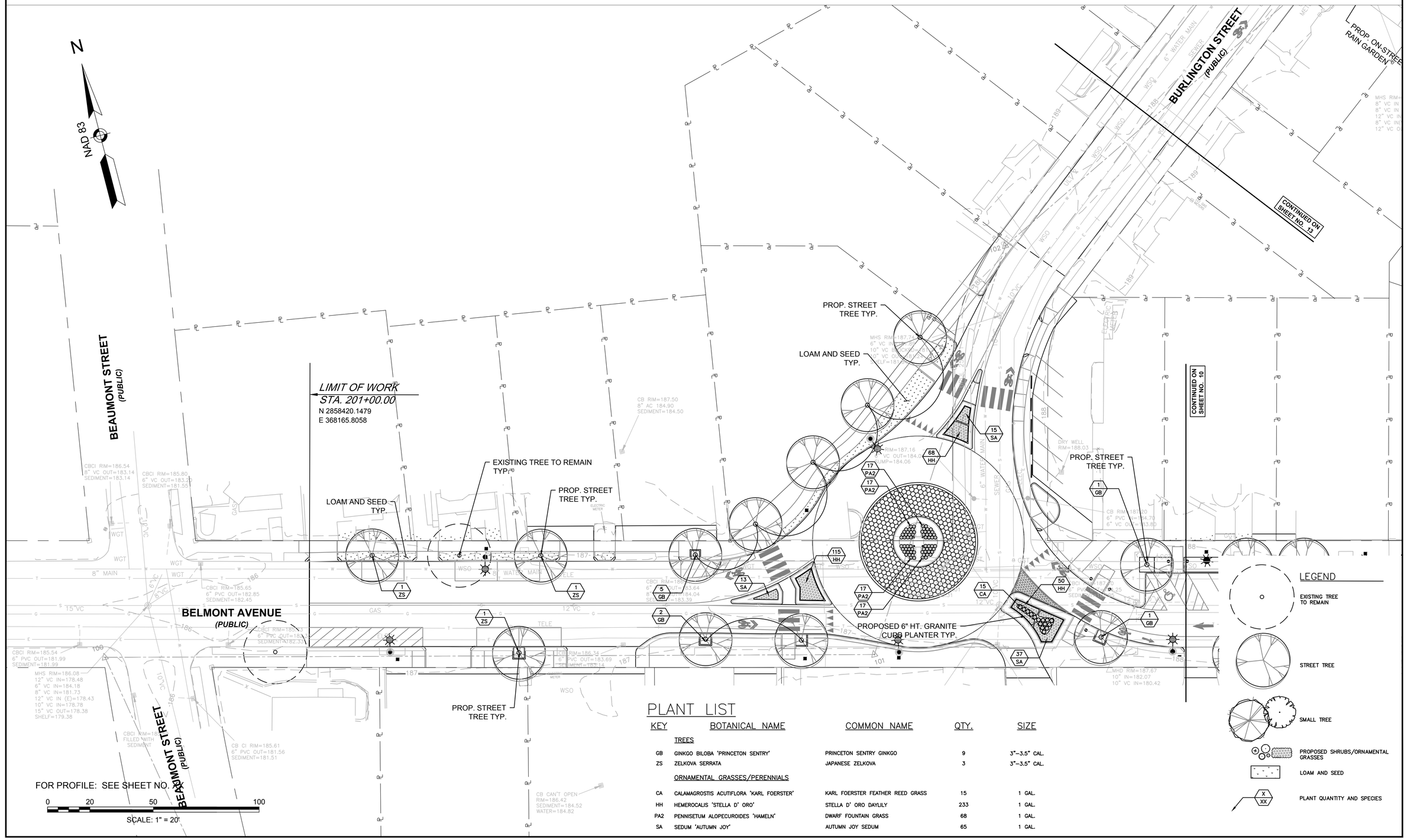
LAYER STATE: -
MS VIEW: -

20121457A70_LSP01.DWG Plotted on 14-May-2018 12:50 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	154	XXX
	PROJECT FILE NO.	608717	

PLANTING PLANS



PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	TREES			
GB	GINKGO BILOBA 'PRINCETON SENTRY'	PRINCETON SENTRY GINKGO	9	3"–3.5" CAL.
ZS	ZELKOVA SERRATA	JAPANESE ZELKOVA	3	3"–3.5" CAL.
	ORNAMENTAL GRASSES/PERENNIALS			
CA	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	15	1 GAL.
HH	HEMEROCALIS 'STELLA D' ORO'	STELLA D' ORO DAYLILY	233	1 GAL.
PA2	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	68	1 GAL.
SA	SEDUM 'AUTUMN JOY'	AUTUMN JOY SEDUM	65	1 GAL.

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES (X / XX)

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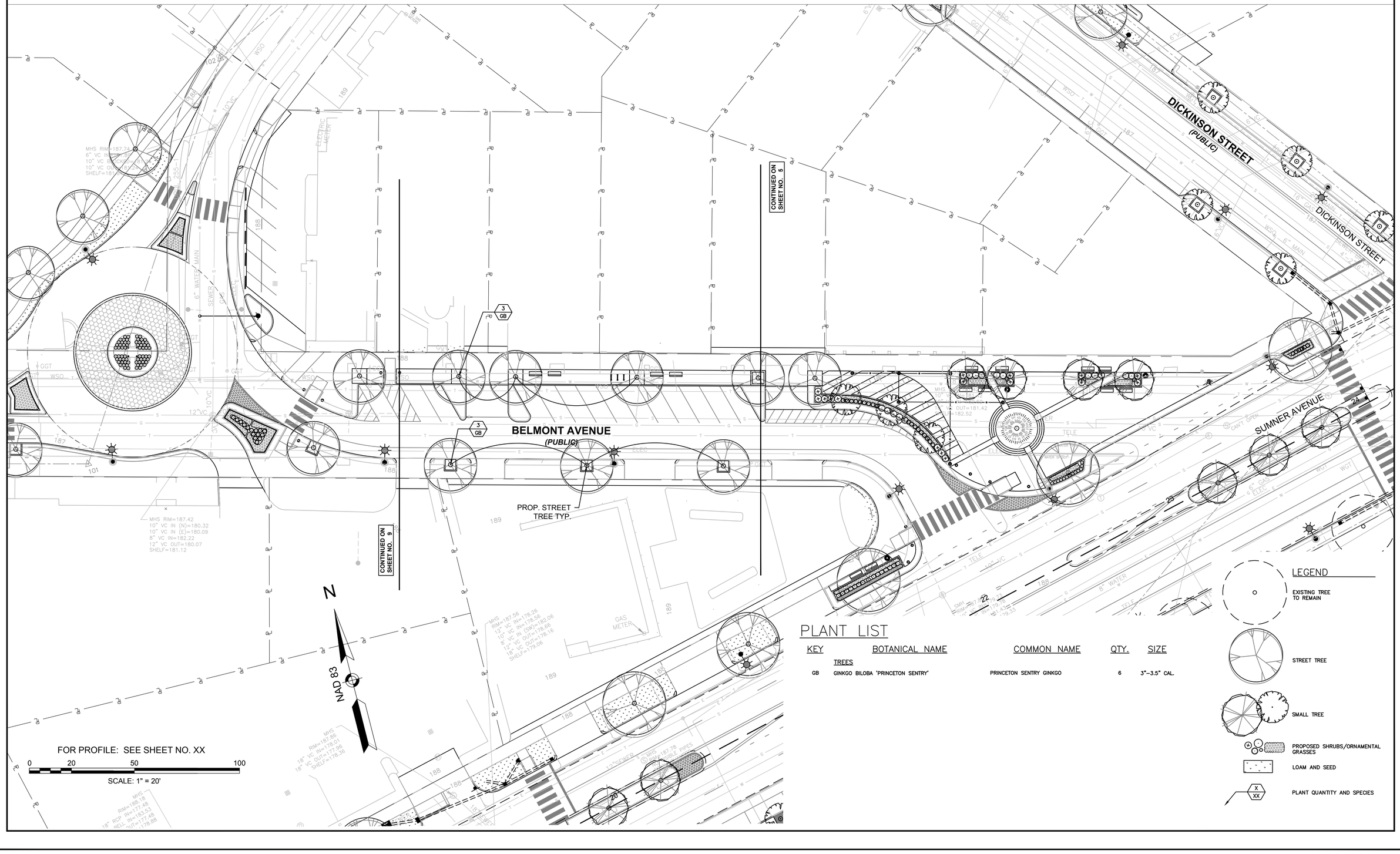
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	155	XXX
	PROJECT FILE NO.	608717	

PLANTING PLANS



PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	TREES			
GB	GINKGO BILOBA 'PRINCETON SENTRY'	PRINCETON SENTRY GINKGO	6	3"–3.5" CAL.

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES (X / XX)

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MS VIEW: -
LAYER STATE: -
20121457A70_LSP01.DWG Plotted on 14-May-2018 12:50 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	156	XXX
	PROJECT FILE NO.	608717	

PLANTING PLANS

NAD 83

SUMNER AVENUE (PUBLIC)

DICKINSON STREET (PUBLIC)

BELMONT AVENUE (ROUTE 83) (PUBLIC)

BELMONT AVENUE (ROUTE 83) (PUBLIC)

CONTINUED ON SHEET NO. 6

CONTINUED ON SHEET NO. 12

PROP. ON-STREET RAIN GARDEN

PROP. SMALL TREE TYP.

PROP. GRAN. CURB

LOAM AND SEED TYP.

PROPOSED 6" HT GRANITE CURB PLANTER TYP.

PROPOSED STREET TREE TYP.

LOAM AND SEED TYP.

PROP. STREET TREE TYP.

LOAM AND SEED TYP.

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100

SCALE: 1" = 20'

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	TREES			
GB	GINKO BILOBA 'PRINCETON SENTRY'	PRINCETON SENTRY GINKGO	5	3"–3.5" CAL.
MR	MALUS X 'ROYAL RAINDROPS'	ROYAL RAINDROPS CRABAPPLE	4	2.5"–3" CAL.
SJ	STYRAX JAPONICUS	JAPANESE SNOWBELL	2	2"–2.5" CAL. (SINGLE STEM)
PC	PYRUS CALLERYANA 'ARISTOCRAT'	ARISTOCRAT CALLERY PEAR	2	2.5"–3" CAL.
	ORNAMENTAL GRASSES/PERENNIALS			
CA	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	8	1 GAL.
HH	HEMEROCALIS 'STELLA D' ORO'	STELLA D' ORO DAYLILY	60	1 GAL.
RF	RUDBECKIA FULGIDA 'FULGIDA'	BLACK–EYED SUSAN	20	1 GAL.
PA2	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	24	1 GAL.

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES (X / XX)

File Path: J:\DWG\P2012\1457\A70\Civil\Plan\20121457A70_LSP01.dwg Layout: LSP 11 Plotted: Mon, May 14, 2018 - 12:51 PM User: jallard
MS VIEW: - LAYER STATE: - Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB

20121457A70_LSP01.DWG Plotted on 14-May-2018 12:51 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	157	XXX
	PROJECT FILE NO.	608717	

PLANTING PLANS

NAD 83

ORMOND STREET (PUBLIC)

CONTINUED ON SHEET NO. 11

CONTINUED ON SHEET NO. 15

LIMIT OF WORK
STA. 308+52.39
N 2857962.5315
E 369955.0616

PROP. STREET TREE TYP.

LOAM AND SEED TYP.

3 PC

1 ZS

BELMONT AVENUE (ROUTE 83)
(PUBLIC)

LOAM AND SEED TYP.

EXISTING TREE TO REMAIN TYP.

TRENTON STREET (PUBLIC)

COMMONWEALTH AVENUE (PUBLIC)

SEWER BRICK 3'-4"x5'-0"

SEWER BRICK OVAL 3'-0"x4'-6"

12" MAIN

8" MAIN

6" MAIN

MHS RIM=187.72
3'-4"X5'-0"BRICK
OVAL IN=173.02
8" VC IN=182.70
10" VC IN=179.72
3'-4"X5'-0"BRICK
OVAL OUT=172.92
SHELF=175.72

MHS RIM=187.79
24" VC IN=179.94
24" VC OUT=172.89

155
N: 2857909.245'
E: 370035.340'
EL: 188.301'
/ MAG-SET-CWLK

156
N: 2857877.624'
E: 370154.053'
EL: 188.369'
/ MAG-SET-CWLK

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	TREES			
PC	PYRUS CALLERYANA 'ARISTOCRAT'	ARISTOCRAT CALLERY PEAR	3	2.5"–3" CAL.
ZS	ZELKOVA SERRATA	JAPANESE ZELKOVA	1	3"–3.5" CAL.

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100
SCALE: 1" = 20'

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES (X / XX)

20121457A70_LSP01.DWG Plotted on 14-May-2018 12:51 PM

File Path: J:\DWG\P20121457A70\Civil\Plan\20121457A70_LSP01.dwg Layout: LSP 12 Plotted: Mon, May 14, 2018 - 12:51 PM User: jallard
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
LAYER STATE: -
MS VIEW: -

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	158	XXX
	PROJECT FILE NO.	608717	

PLANTING PLANS

N

NAD 83

LIMIT OF WORK
STA. 401+06.43
N 2858697.3479
E 368688.9831

GRENADA TERRACE (PUBLIC)

DICKINSON STREET (PUBLIC)

DICKINSON STREET (PUBLIC)

BURLINGTON STREET (PUBLIC)

LOAM AND SEED TYP.

LOAM AND SEED TYP.

PROP. STREET TREE TYP.

PROP. STREET TREE TYP.

PROP. STREET TREE TYP.

PROP. ON-STREET RAIN GARDEN

PROP. ON-STREET RAIN GARDEN

PROP. ON-STREET RAIN GARDEN

CONTINUED ON SHEET NO. 5

CONTINUED ON SHEET NO. 10

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100

SCALE: 1" = 20'

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	TREES			
UA	ULMUS X ACCOLADE	ACCOLADE ELM	2	3"–3.5" CAL.
UAP	ULMUS AMERICANA 'PRINCETON'	PRINCETON ELM	8	3"–3.5" CAL.
	PERENNIALS			
CT	CAREX STRICTA	TUSSOCK SEDGE	37	1 GAL.

LEGEND

EXISTING TREE TO REMAIN

STREET TREE

SMALL TREE

PROPOSED SHRUBS/ORNAMENTAL GRASSES

LOAM AND SEED

PLANT QUANTITY AND SPECIES

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20121457A70_LSP01.DWG Plotted on 14-May-2018 12:51 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	159	XXX
	PROJECT FILE NO.	608717	

PLANTING PLANS

SUMNER AVENUE (PUBLIC)

26'

DICKINSON STREET (PUBLIC)

DICKINSON STREET

TRENTON STREET (PUBLIC)

NAD 83

N

LIMIT OF WORK
STA. 413+51.42
N 2857703.1809
E 369437.9214

PROP. STREET TREE TYP.

PROP. SMALL TREE TYP.

PROP. ON-STREET RAIN GARDEN

PROP. STREET TREE TYP.

PROP. ON-STREET RAIN GARDEN

PROP. ON-STREET RAIN GARDEN

CONTINUED ON SHEET NO. 6

CONTINUED ON SHEET NO. 21

TWOOD STREET (PUBLIC)

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100

SCALE: 1" = 20'

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
	TREES			
AG	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	4	2"–2.5" CAL. (SINGLE STEM)
UA	ULMUS X ACCOLADE	ACCOLADE ELM	3	3"–3.5" CAL.
UAP	ULMUS AMERICANA 'PRINCETON'	PRINCETON ELM	3	3"–3.5" CAL.
	GRASSES/GROUNDCOVER/PERENNIALS			
CT	CAREX STRICTA	TUSSOCK SEDGE	81	1 GAL.

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- X / XX — PLANT QUANTITY AND SPECIES

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LAYER STATE: -
MS VIEW: -

20121457A70_LSP01.DWG Plotted on 14-May-2018 12:51 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	160	XXX
	PROJECT FILE NO.	608717	

PLANTING PLANS

SUMNER AVENUE (PUBLIC)

A STREET (BLIC)

ORMOND STREET (PUBLIC)

ORMOND STREET (PUBLIC)

STREET

EXISTING TREE TO REMAIN TYP.

LOAM AND SEED TYP.

PROP. STREET TREE TYP.

LOAM AND SEED TYP.

EXISTING TREE TO REMAIN TYP.

LIMIT OF WORK
STA. 308+52.39
N 2857962.5315
E 3859553.0616

CONTINUED ON SHEET NO. 12

CONTINUED ON SHEET NO. 8

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100
SCALE: 1" = 20'

NAD 83

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
TREES				
ZS	ZELKOVA SERRATA	JAPANESE ZELKOVA	1	3"-3.5" CAL.

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE
- PROPOSED SHRUBS/ORNAMENTAL GRASSES
- LOAM AND SEED
- PLANT QUANTITY AND SPECIES (X / XX)

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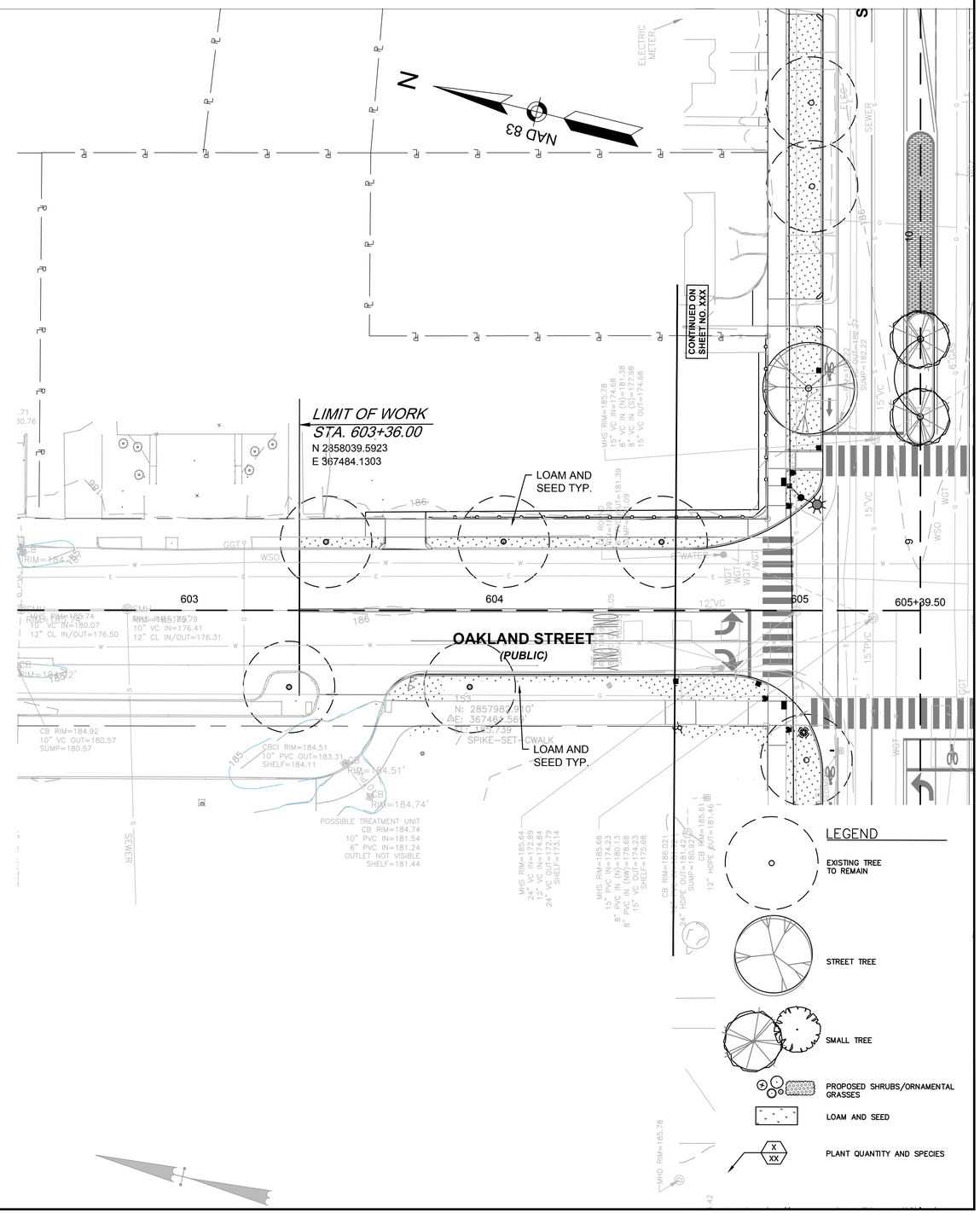
MS VIEW: -
LAYER STATE: -
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
20121457A70_LSP01.DWG Plotted on 14-May-2018 12:52 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	161	XXX
PROJECT FILE NO.	608717		

CONSTRUCTION PLANS



FOR PROFILE: SEE SHEET NO. XX

0 20 50 100

SCALE: 1" = 20'

File Path: J:\DWG\P20121457\A70\Civil\Plan\20121457A70_LSP01.dwg Layout: LSP 16 Plotted: Mon, May 14, 2018 - 12:52 PM User: jallard
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
LAYER STATE: -
MS VIEW: -

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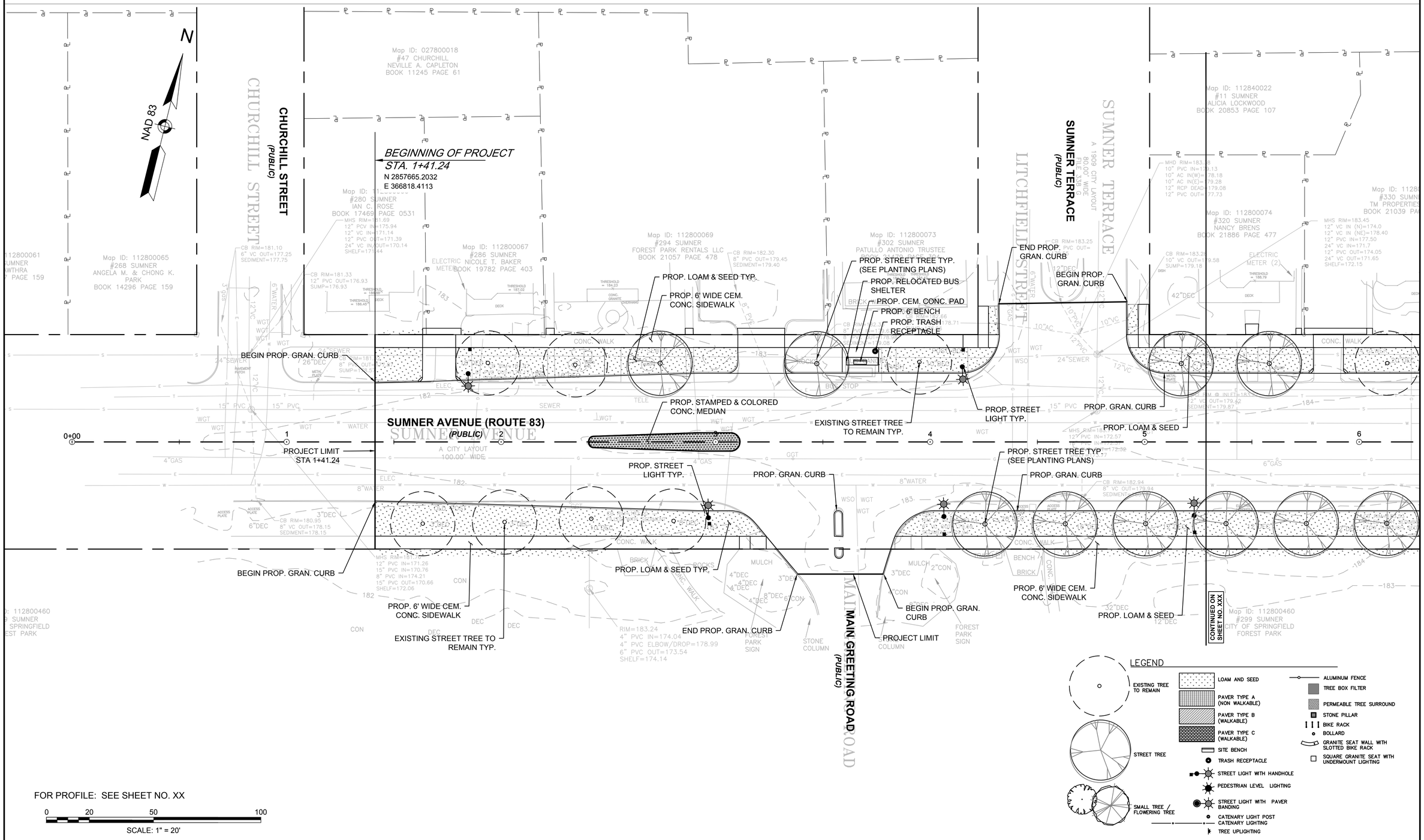
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	162	XXX
PROJECT FILE NO.	608717		

STREETSCAPE PLANS



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SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	163	XXX
PROJECT FILE NO.	608717		

STREETSCAPE PLANS

20121457A70_LND01.DWG Plotted on 14-May-2018 12:44 PM

File Path: J:\DWG\P2012\1457A70\Civil\Plan\20121457A70_LND01.dwg Layout: LND 02 Plotted: Mon, May 14, 2018 - 12:44 PM User: jallard
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
MS VIEW: - LAYER STATE: -

SUMNER TERRACE (PUBLIC)
A 1909 CITY LAYOUT 80.00' WIDE FILE 338 G
LITCHFIELD STREET
OAKLAND STREET (PUBLIC)
SUMNER AVENUE (ROUTE 83) (PUBLIC)
LIMIT OF WORK STA. 603+36.00
N 2858039.5923
E 367484.1303
N
NAD 83
Map ID: 112840022 #11 SUMNER ALICIA LOCKWOOD BOOK 20853 PAGE 107
Map ID: 112800074 #320 SUMNER NANCY BRENS BOOK 21886 PAGE 477
Map ID: 112800075 #330 SUMNER TM PROPERTIES INC BOOK 21039 PAGE 431
Map ID: 055200029 #46 OAKLAND CITY OF SPRINGFIELD FOREST PARK MIDDLE SCHOOL BOOK 19628 PAGE 567
Map ID: 092100161 #17–19 OAKLAND CALVARY'S LOVE CHURCH BOOK 17100 PAGE 404
Map ID: 112800082 #366 SUMNER MARIA E. GONZALEZ BOOK 10597 PAGE 0073
Map ID: 112800083 #372 SUMNER TIWARI BHANU BOOK 20446 PAGE 598
Map ID: 112800460 #299 SUMNER CITY OF SPRINGFIELD FOREST PARK
BENCHMARK: PUNCH MARK BOLT ON HYDRANT EL=187.76
CONTINUED ON SHEET NO. XXX
CONTINUED ON SHEET NO. XXX
END PROP. CONC. SIDEWALK MATCH EXISTING
END PROP. GRAN. CURB
BEGIN PROP. GRAN. CURB
EXIST. CONC. WALK TO REMAIN
PROP. 6' WIDE CEM. CONC. SIDEWALK
PROP. LOAM & SEED TYP.
EXISTING TREE TO REMAIN TYP.
PROP. CEM. CONC. SIDEWALK
PROP. 5' HT. ALUMINUM FENCE
PROP. TRAVERSABLE GRAN. CURB
PROP. PAVERS TYPE A
PROP. STAMPED & COLORED CONCRETE MEDIAN
PROP. SMALL TREE TYP.
PROP. STREET TREE TYP. (SEE PLANTING PLANS)
PROP. GRAN. CURB
PROP. STREET LIGHT TYP.
PROP. 5' HT. STONE PILLAR
PROP. 6" HT. GRANITE CURB PLANTER
PROP. 6' WIDE CEM. CONC. SIDEWALK
PROP. LOAM & SEED TYP.
PROP. 6' BENCH TYP.
PROP. TRASH RECEPTACLE
PROP. PEDESTRIAN LEVEL LIGHTING
PROP. BIKE RACK (3 HOOPS)
PROP. CEM. CONC. PAVING
PC +98.881
PT +39.15
PT +00.0802
605+39.50
800+00
FOR PROFILE: SEE SHEET NO. XX
0 20 50 100
SCALE: 1" = 20'

LEGEND
EXISTING TREE TO REMAIN
STREET TREE
SMALL TREE / FLOWERING TREE
LOAM AND SEED
PAVER TYPE A (NON WALKABLE)
PAVER TYPE B (WALKABLE)
PAVER TYPE C (WALKABLE)
SITE BENCH
TRASH RECEPTACLE
STREET LIGHT WITH HANDHOLE
PEDESTRIAN LEVEL LIGHTING
STREET LIGHT WITH PAVER BANDING
CATENARY LIGHT POST
CATENARY LIGHTING
TREE UPLIGHTING
ALUMINUM FENCE
TREE BOX FILTER
PERMEABLE TREE SURROUND
STONE PILLAR
BIKE RACK
BOLLARD
GRANITE SEAT WALL WITH SLOTTED BIKE RACK
SQUARE GRANITE SEAT WITH UNDERMOUNT LIGHTING

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	164	XXX
	PROJECT FILE NO. 608717		

STREETSCAPE PLANS

LIMIT OF WORK
STA. 603+36.00
N 2858039.5923
E 3674841.1303

N
NAD 83

SUMNER AVENUE (ROUTE 83)
(PUBLIC)

KENWOOD TERRACE
(PUBLIC)
A 1909 CITY LAYOUT
50.00' WIDE
FILE 338 H

BEAUMONT STREET
(PUBLIC)
A 1909 CITY LAYOUT
50.00' WIDE
FILE 338 H

CONTINENTAL STREET
(PUBLIC)

SUMNER AVENUE
A CITY LAYOUT
100.00' WIDE

BENCHMARK: SPIKE IN UTILITY LIGHT POLE
EL=188.60

Map ID: 092100161
#17-19 OAKLAND
CALVARY'S LOVE CHURCH
BOOK 17100 PAGE 404

Map ID: 112800082
#366 SUMNER
MARIA E. GONZALEZ
BOOK 10597 PAGE 0073

Map ID: 112800083
#372 SUMNER
TIWARI BHANU
BOOK 20446 PAGE 598

Map ID: 112800084
#376-378 SUMNER
HECTOR R. RODRIGUEZ
BOOK 20166 PAGE 534

Map ID: 112800085
#390 SUMNER
ANDREW W. VIVENZIO
BOOK 12956 PAGE 0494

Map ID: 112800086
#398 SUMNER
DAO VU
BOOK 15728 PAGE 0310

Map ID: 112800087
#402 SUMNER
ROSEMARY PEREZ
BOOK 15061 PAGE 0330

Map ID: 112800088
#408 SUMNER
GERALD E. BEAUL
BOOK 10939 PAGE

Map ID: 112800434
#361 SUMNER
TRINITY METHODIST EPISCOPAL CHURCH
BOOK 19030 PAGE 5

Map ID: 112800426
#407 SUMNER
KARI A. HAYWOOD &

Map ID: 112800425
#415 SUMNER
JOSE L. ESTEVEZ

Map ID: 11
#420 SU
PARKRIDGE PRO
BOOK 17660

EXISTING TREE TO REMAIN TYP.
PROP. LOAM & SEED TYP.
END PROP. GRAN. CURB
PROJECT LIMIT
BEGIN PROP. GRAN. CURB
PROP. STAMPED & COLORED CONCRETE MEDIAN
PROP. PAVERS TYPE A
PROP. TRAVERSABLE GRAN. CURB
PROP. STAMPED & COLORED CONCRETE MEDIAN (SEE DETAILS)
PROP. STREET TREE TYP. (SEE PLANTING PLAN)
PROP. STREET LIGHT TYP.
PROP. GRAN. CURB
PROP. SMALL TREE TYP.
PROP. 6' WIDE CEM. CONC. SIDEWALK
PROP. 9.5' WIDE CEM. CONC. SIDEWALK AT BUS STOP
PROP. STREET LIGHT TYP.
PROP. LOAM & SEED TYP.
PROP. 6' WIDE CEM. CONC. SIDEWALK
END PROP. GRAN. CURB
PROJECT LIMIT
BEGIN PROP. GRAN. CURB

CONTINUED ON SHEET NO. XXX
CONTINUED ON SHEET NO. XXX

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100
SCALE: 1" = 20'

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE / FLOWERING TREE
- LOAM AND SEED
- PAVER TYPE A (NON WALKABLE)
- PAVER TYPE B (WALKABLE)
- PAVER TYPE C (WALKABLE)
- SITE BENCH
- TRASH RECEPTACLE
- STREET LIGHT WITH HANDHOLE
- PEDESTRIAN LEVEL LIGHTING
- STREET LIGHT WITH PAVER BANDING
- CATENARY LIGHT POST CATENARY LIGHTING
- TREE UPLIGHTING
- ALUMINUM FENCE
- TREE BOX FILTER
- PERMEABLE TREE SURROUND
- STONE PILLAR
- BIKE RACK
- BOLLARD
- GRANITE SEAT WALL WITH SLOTTED BIKE RACK
- SQUARE GRANITE SEAT WITH UNDERMOUNT LIGHTING

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SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	165	XXX
PROJECT FILE NO.	608717		

STREETSCAPE PLANS

BEAUMONT STREET (PUBLIC)
A 1909 CITY LAYOUT
50.00' WIDE
FILE 338 H

SUMNER AVENUE (ROUTE 83) (PUBLIC)

CONTINENTAL STREET (PUBLIC)
A 1907 CITY LAYOUT
50.00' WIDE
FILE 225

PARKWOOD STREET (PUBLIC)
A 1902 CITY LAYOUT
50.00' WIDE
FILE 107

CLIFTWOOD STREET (PUBLIC)

PROJECT LIMIT
BEGIN PROP. GRAN. CURB
PROP. 6' WIDE CEM. CONC. SIDEWALK
END PROP. GRAN. CURB
PROP. SMALL TREE TYP.
PROP. PAVERS TYPE A
PROP. GATEWAY ARCH
PROP. GRAN. CURB
PROP. STAMPED & COLORED CONCRETE MEDIAN (SEE DETAILS)
PROP. LOAM & SEED TYP.
PROP. STREET TREE TYP. (SEE PLANTING PLANS)
PROP. GRAN. CURB
PROP. STREET LIGHT TYP.
PROP. STREET TREE TYP. (SEE PLANTING PLANS)
PROP. 6' WIDE CEM. CONC. SIDEWALK
PROP. GATEWAY ARCH FOUNDATION TYP.
PROP. LOAM & SEED TYP.
END PROP. GRAN. CURB
PROJECT LIMIT
BEGIN PROP. GRAN. CURB
PROP. ON-STREET RAIN GARDEN
PROP. PAVERS TYPE A
PROP. PAVERS TYPE B
PROP. BIKE RACK (1 HOOP) TYP.
PROP. TREE BOX FILTER TYP.
PROP. 6' BENCH TYP.
PROP. PAVERS TYPE C
PROP. STREET LIGHT WITH PAVER BANDING TYP.
PROP. 6" HT. GRANITE PLANTER
PROP. SMALL TREE (SEE PLANTING PLAN)
PROP. CEM. CONC. SIDEWALK
PROP. GRAN. CURB
PROP. STREET TREE TYP. (SEE PLANTING PLANS)

Map ID: 112800087 #402 SUMNER ROSEMARY PEREZ BOOK 15061 PAGE 0330
Map ID: 112800088 #408 SUMNER GERALD E. BEAULIEU BOOK 10939 PAGE 02887
Map ID: 112800089 #420 SUMNER PARKRIDGE PROPERTIES LLC BOOK 17660 PAGE 288
Map ID: 112800090 #426 SUMNER AGATHA WORRELL BOOK 08281 PAGE 0517
Map ID: 112800091 #432 SUMNER NICHOLAS G. GHANAME BOOK 20627 PAGE 482
Map ID: 112800092 #440 SUMNER SUMNER LLC BOOK 20291 PAGE 164
Map ID: 112800095 #444 SUMNER TARSAM SPRINGFIELD LLC BOOK 21500 PAGE 242
Map ID: 0123501103 S S BELMONT CARRIAGE FUNERAL HOLDINGS INC BOOK 16856 BOOK 0412
Map ID: 112800426 #407 SUMNER KARL A. HAYWOOD & KATIE L HOGAN BOOK 16608 PAGE 0457
Map ID: 112800425 #415 SUMNER JOSE L. ESTEVEZ BOOK 16331 PAGE 0161
Map ID: 112800424 #419 SUMNER CAROLYN SUPRENANT BOOK 7142 PAGE 120
Map ID: 112800423 #423 SUMNER CAROLYN SUPRENANT BOOK 08813 PAGE 0422
Map ID: 112800421 #445 SUMNER RF REALTY COMPANY LLC BOOK 19577 PAGE 357
Map ID: 112800419 #449 SUMNER RF REALTY COMPANY LLC BOOK 19577 PAGE 357

CONTINUED ON SHEET NO. XXX
CONTINUED ON SHEET NO. XXX
FOR PROFILE: SEE SHEET NO. XX

0 20 50 100
SCALE: 1" = 20'

LEGEND

EXISTING TREE TO REMAIN
STREET TREE
SMALL TREE / FLOWERING TREE

LOAM AND SEED
PAVER TYPE A (NON WALKABLE)
PAVER TYPE B (WALKABLE)
PAVER TYPE C (WALKABLE)
SITE BENCH
TRASH RECEPTACLE
STREET LIGHT WITH HANDHOLE
PEDESTRIAN LEVEL LIGHTING
STREET LIGHT WITH PAVER BANDING
CATENARY LIGHT POST
CATENARY LIGHTING
TREE UPLIGHTING

ALUMINUM FENCE
TREE BOX FILTER
PERMEABLE TREE SURROUND
STONE PILLAR
BIKE RACK
BOLLARD
GRANITE SEAT WALL WITH SLOTTED BIKE RACK
SQUARE GRANITE SEAT WITH UNDERMOUNT LIGHTING

BENCHMARK: TOP SPINDLE HYDRANT EL=190.96

NAD 83
N

20121457A70_LND01.DWG Plotted on 14-May-2018 12:44 PM

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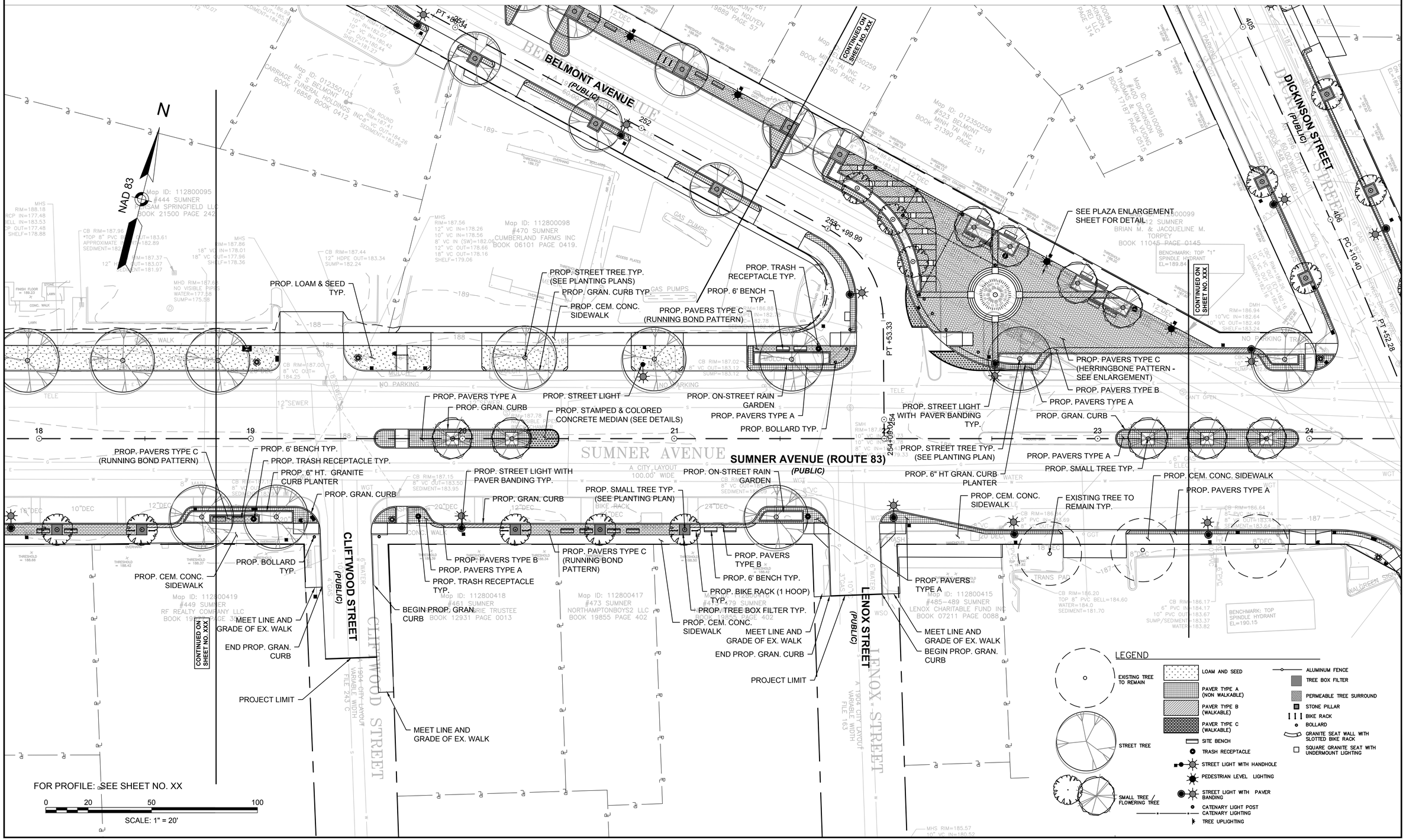
LAYER STATE: -
MS VIEW: -

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	166	XXX
PROJECT FILE NO.		608717	

STREETSCAPE PLANS



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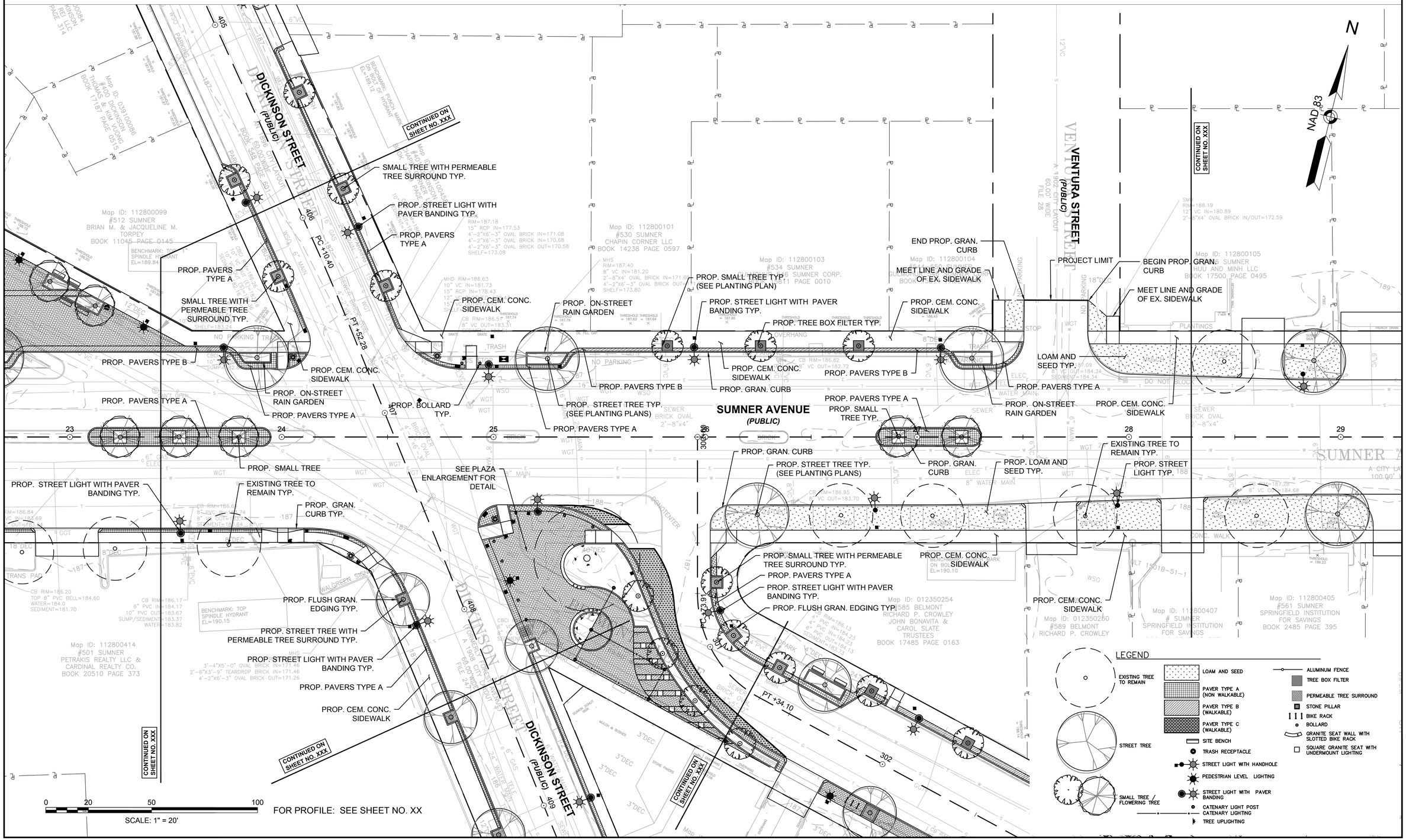
MS VIEW: - LAYER STATE: - Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB

20121457A70_LND01.DWG Plotted on 14-May-2018 12:44 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	167	XXX
	PROJECT FILE NO.	608717	

STREETSCAPE PLANS



FOR PROFILE: SEE SHEET NO. XX

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20121457A70_LND01.DWG Plotted on 14-May-2018 12:44 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	168	XXX
PROJECT FILE NO.	608717		

STREETSCAPE PLANS

N

NAD 83

VENTURA STREET *(PUBLIC)*

SORRENTO STREET *(PUBLIC)*

SUMNER AVENUE *(PUBLIC)*

CONTINUED ON SHEET NO. XXX

PROJECT LIMIT

BEGIN PROP. GRAN. CURB

END PROP. GRAN. CURB

MATCH LINE AND GRADE OF EX. SIDEWALK

PROP. CEM. CONC. SIDEWALK TYP.

EXISTING TREE TO REMAIN TYP.

PROP. STREET LIGHT TYP.

PROP. LOAM AND SEED TYP.

PROP. STREET TREE TYP. (SEE PLANTING PLANS)

PROP. GRAN . CURB

PROP. GRAN. CURB

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100

SCALE: 1" = 20'

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE / FLOWERING TREE
- LOAM AND SEED
- PAVER TYPE A (NON WALKABLE)
- PAVER TYPE B (WALKABLE)
- PAVER TYPE C (WALKABLE)
- SITE BENCH
- TRASH RECEPTACLE
- STREET LIGHT WITH HANDHOLE
- PEDESTRIAN LEVEL LIGHTING
- STREET LIGHT WITH PAVER BANDING
- CATENARY LIGHT POST CATENARY LIGHTING
- TREE UPLIGHTING
- ALUMINUM FENCE
- TREE BOX FILTER
- PERMEABLE TREE SURROUND
- STONE PILLAR
- BIKE RACK
- BOLLARD
- GRANITE SEAT WALL WITH SLOTTED BIKE RACK
- SQUARE GRANITE SEAT WITH UNDERMOUNT LIGHTING

20121457A70_LND01.DWG Plotted on 14-May-2018 12:45 PM
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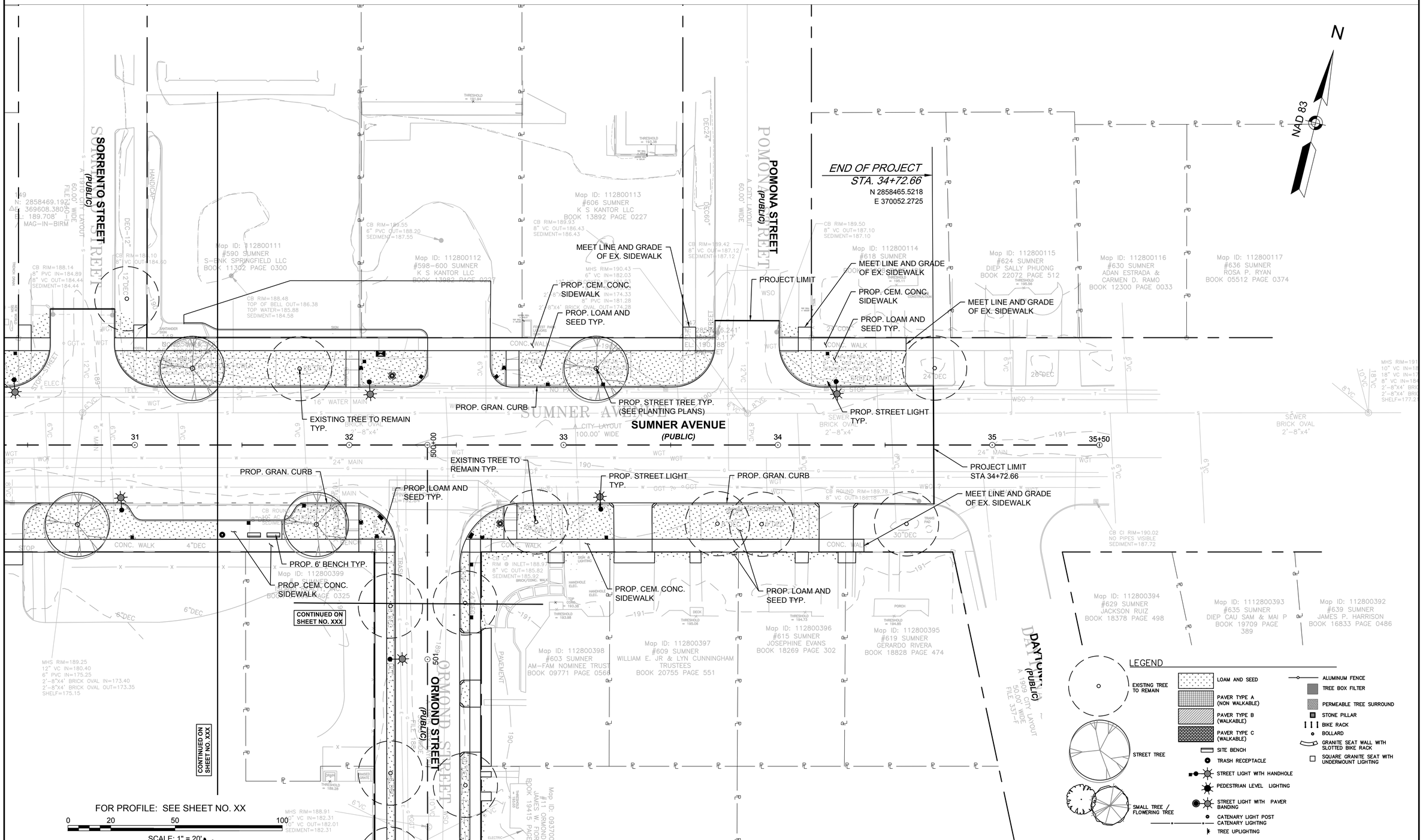
Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB
MS VIEW: - LAYER STATE: -

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	169	XXX
	PROJECT FILE NO.	608717	

STREETSCAPE PLANS



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SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	170	XXX
	PROJECT FILE NO.	608717	

STREETSCAPE PLANS

N

NAD 83

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE / FLOWERING TREE
- LOAM AND SEED
- PAVER TYPE A (NON WALKABLE)
- PAVER TYPE B (WALKABLE)
- PAVER TYPE C (WALKABLE)
- SITE BENCH
- TRASH RECEPTACLE
- STREET LIGHT WITH HANDHOLE
- PEDESTRIAN LEVEL LIGHTING
- STREET LIGHT WITH PAVER BANDING
- CATENARY LIGHT POST
- CATENARY LIGHTING
- TREE UPLIGHTING
- ALUMINUM FENCE
- TREE BOX FILTER
- PERMEABLE TREE SURROUND
- STONE PILLAR
- BIKE RACK
- BOLLARD
- GRANITE SEAT WALL WITH SLOTTED BIKE RACK
- SQUARE GRANITE SEAT WITH UNDERMOUNT LIGHTING

BEAUMONT STREET (PUBLIC)
A 1901 CITY LAYOUT
50.00' WIDE
FILE 62

BURLINGTON STREET (PUBLIC)

LIMIT OF WORK
STA. 201+00.00
N 2858420.1479
E 368165.8058

PROJECT LIMIT
STA 201+00.00

PROJECT LIMIT
PT +33.20

CONTINUED ON SHEET NO. XXX

CONTINUED ON SHEET NO. XXX

BELMONT AVENUE (PUBLIC)

BELMONT AVENUE (PUBLIC)

FOR PROFILE: SEE SHEET NO. XX

PROP. CEM. CONC. SIDEWALK
PROP. ART SCULTURE FOUNDATION WITH UPLIGHTING
PROP. STAMPED CONC. TRUCK APRON (SEE CONST. DETAILS)
PROP. LOAM & SEED TYP.
PROP. STREET TREE TYP.
PROP. STREET TREE WITH PERMEABLE TREE SURROUND TYP.
PROP. GRAN. CURB
PROP. CEM. CONC. WALK TO MEET LINE AND GRADE OF EXISTING WALKWAY
PROP. CEM. CONC. SIDEWALK TYP.
PROP. PAVERS TYPE A
PROP. CEM. CONC. SIDEWALK TYP.
PAVER BANDING TYP.
PROP. PAVERS TYPE C (RUNNING BOND PATTERN)
PROP. FLUSH GRAN. EDGING TYP.
PROP. STREET TREE WITH PERMEABLE TREE SURROUND TYP.
PROP. BOLLARD TYP.
PROP. CEM. CONC. SIDEWALK TYP.
PROP. STREET LIGHT TYP.
EXISTING TREE TO REMAIN TYP.
PROP. FLUSH GRAN. EDGING TYP.
PROP. STREET LIGHT WITH PAVER BANDING TYP.
PROP. PAVERS TYPE A
PROP. CEM. CONC. SIDEWALK TYP.
PROP. GRAN. CURB
PROP. PAVERS TYPE A
PROP. STREET TREE WITH PERMEABLE TREE SURROUND TYP.
PROP. CEM. CONC. SIDEWALK
PROP. PAVERS TYPE A
PROP. CEM. CONC. SIDEWALK
PROP. PAVERS TYPE A
PROP. 6" HT. GRAN. CURB PLANTER
PROP. PAVERS TYPE A

Map ID: 021000007 #24 BURLINGTON SALVATORE G. CIRCOSTA BOOK 20228 PAGE 327
Map ID: 021000006 #20 BURLINGTON ANTONIO CALVANESE BOOK 20660 PAGE 150
Map ID: 021000004 BURLINGTON FIORE, RALPH S. & SANDRA DAVIS-FIORE BOOK 10111 PAGE 0194
Map ID: 021000012 #12 BURLINGTON ANTHONY SANTANIELLO BOOK 7357 PAGE 0103
Map ID: 021000013 #21 BURLINGTON ANTHONY SANTANIELLO BOOK 06324 PAGE 0158
Map ID: 03100077 #368 DICKINSON FREEDOM PROPERTY GROUP, LLC BOOK 20116 PAGE 578
Map ID: 012350278 #461 BELMONT NGUYEN HUNG & PHONG PHAM BOOK 21604 PAGE 107H
Map ID: 012350276 #463–465 BELMONT MAJHI JAGAT & SUK & BHIMA BOOK 20802 PAGE 22
Map ID: 012350274 #467–469 BELMONT CHARLES R. LYONS BOOK 06614 PAGE 1
Map ID: 012350272 BELMONT CARRIAGE FUNERAL HOLDINGS INC. BOOK 16856 PAGE 0412
Map ID: 012350280 #453 BELMONT LIANG MIN & QING ZHANG BOOK 21058 PAGE 470
Map ID: 012350092 #450 BELMONT MARTHA ALVARDO
Map ID: 012350094 #462 BELMONT LOUIS GENOVESE & CAROLYN SUPRENANT BOOK 18494 PAGE 354
Map ID: 012350095 S S BELMONT CARRIAGE FUNERAL HOLDINGS INC. BOOK 16856 PAGE 0412
Map ID: 012350097 S S BELMONT CARRIAGE FUNERAL HOLDINGS INC. BOOK 16856 PAGE 0412
Map ID: 012350099 S S BELMONT CARRIAGE FUNERAL HOLDINGS INC. BOOK 16856 PAGE 0412
Map ID: 012350101 #486–494 BELMONT CARRIAGE FUNERAL HOLDINGS INC. BOOK 16856 BOOK 0412
Map ID: 012350265 #501 BELMONT VINCENZO R. M. ALFONSI & MARGARET M. AMORE BOOK 13061 PAGE 0325
Map ID: 012350263 #505 BELMONT CARRIAGE FUNERAL HOLDINGS INC. BOOK 13096 PAGE 0178
Map ID: 112800098 #470 SUMNER CUMBERLAND FARMS BOOK 06101 PAGE 156

0 20 50 100
SCALE: 1" = 20'

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SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	171	XXX
PROJECT FILE NO.	608717		

STREETSCAPE PLANS

PROP. PEDESTRIAN LEVEL LIGHTING TYP.
PAVER BANDING TYP.
PROP. BOLLARD TYP.
PROP. STREET TREE WITH PERMEABLE TREE SURROUND TYP.
PROP. PAVER TYPE C (RUNNINGBOND PATTERN)
PROP. BIKE RACK (3 HOOPS) TYP.
PROP. CEM. CONC. SIDEWALK TYP.
PROP. GRAN. CURB TYP.
PROP. PAVER TYPE A
PROP. 6' BENCH TYP.
PROP. CEM. CONC. SIDEWALK TYP.
PROP. GRAN. CURB
PROP. FLUSH GRAN. EDGING TYP.
PROP. STREET TREE WITH PERMEABLE TREE SURROUND TYP.
PROP. STREET LIGHT WITH PAVER BANDING TYP.

DICKINSON STREET (PUBLIC)
BELMONT AVENUE (PUBLIC)
SUMNER AVENUE (ROUTE 83) (PUBLIC)

CONTINUED ON SHEET NO. XXX

FOR PROFILE: SEE SHEET NO. XX

SCALE: 1" = 20'

NAD 83

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE / FLOWERING TREE
- LOAM AND SEED
- PAVER TYPE A (NON WALKABLE)
- PAVER TYPE B (WALKABLE)
- PAVER TYPE C (WALKABLE)
- SITE BENCH
- TRASH RECEPTACLE
- STREET LIGHT WITH HANDHOLE
- PEDESTRIAN LEVEL LIGHTING
- STREET LIGHT WITH PAVER BANDING
- CATENARY LIGHT POST CATENARY LIGHTING
- TREE UPLIGHTING
- ALUMINUM FENCE
- TREE BOX FILTER
- PERMEABLE TREE SURROUND
- STONE PILLAR
- BIKE RACK
- BOLLARD
- GRANITE SEAT WALL WITH SLOTTED BIKE RACK
- SQUARE GRANITE SEAT WITH UNDERMOUNT LIGHTING

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20121457A70_LND01.DWG Plotted on 14-May-2018 12:45 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	172	XXX
	PROJECT FILE NO.	608717	

STREETSCAPE PLANS

N

NAD 83

SUMNER AVENUE (PUBLIC)

BELMONT AVENUE (ROUTE 83) (PUBLIC)

DICKINSON STREET (PUBLIC)

CONTINUED ON SHEET NO. XXX

CONTINUED ON SHEET NO. XXX

PROP. PAVER TYPE B

PROP. STREET LIGHT WITH PAVER BANDING TYP.

PROP. SMALL STREET TYP. (SEE PLANTING PLAN)

PROP. 3' HT ALUMINUM FENCE

PROP. TREE BOX FILTER TYP.

PROP. CEM. CONC. SIDEWALK

PROP. PAVER TYPE A

PROP. PAVERS TYPE A

PROP. 3' HT ALUMINUM FENCE

PROP. LOAM & SEED TYP.

PROP. CEM. CONC. SIDEWALK TYP.

PROP. PAVERS TYPE A

PROP. STREET LIGHT TYP.

PROP. LOAM & SEED TYP.

PROP. 6' BENCH TYP.

PROP. ON-STREET RAIN GARDEN

PROP. STREET TREE WITH PERMEABLE TREE SURROUND TYP.

PAVER BANDING TYP.

PROP. GRAN. CURB

PROP. GRAN. CURB

PROP. STREET TREE TYP. (SEE PLANTING PLAN)

PROP. LOAM & SEED TYP.

PROP. 6" HT. GRAN. CURB PLANTER

PROP. 6' BENCH TYP.

PROP. PAVER TYPE A

PROP. LOAM & SEED TYP.

PROP. PAVER TYPE C (RUNNINGBOND PATTERN)

PROP. BIKE RACK (3 HOOPS) TYP.

PROP. CEM. CONC. SIDEWALK TYP.

PROP. PEDESTRIAN LEVEL LIGHTING TYP.

PROP. PAVER TYPE C (RUNNINGBOND PATTERN)

PROP. CEM. CONC. SIDEWALK TYP.

PROP. GRAN. CURB

PROP. PAVER TYPE C (RUNNINGBOND PATTERN)

PROP. STREET LIGHT TYP.

PROP. GRAN. CURB

PROP. CEM. CONC. SIDEWALK TYP.

PROP. LOAM & SEED TYP.

PROP. LOAM & SEED TYP.

PROJECT LIMIT

END PROP. CEM. CONC. SIDEWALK MATCH EXISTING LINE AND GRADE

PROP. LOAM & SEED TYP.

PROP. LOAM & SEED TYP.

PT +34.10

302 303 304 305 306

409 410

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100

SCALE: 1" = 20'

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE / FLOWERING TREE
- LOAM AND SEED
- PAVER TYPE A (NON WALKABLE)
- PAVER TYPE B (WALKABLE)
- PAVER TYPE C (WALKABLE)
- SITE BENCH
- TRASH RECEPTACLE
- STREET LIGHT WITH HANDHOLE
- PEDESTRIAN LEVEL LIGHTING
- STREET LIGHT WITH PAVER BANDING
- CATENARY LIGHT POST CATENARY LIGHTING
- TREE UPLIGHTING
- ALUMINUM FENCE
- TREE BOX FILTER
- PERMEABLE TREE SURROUND
- STONE PILLAR
- BIKE RACK
- BOLLARD
- GRANITE SEAT WALL WITH SLOTTED BIKE RACK
- SQUARE GRANITE SEAT WITH UNDERMOUNT LIGHTING

Map ID: 012350246 # BELMONT NEW CREEK II LLC BOOK BOOK 19068 PAGE 209

Map ID: 012350245 # BELMONT NEW CREEK II LLC BOOK 19068 PAGE 209

Map ID: 012350247 # BELMONT SPRINGFIELD INSTITUTION FOR SAVINGS BOOK 2485 PAGE 395

Map ID: 112800405 #561 SUMNER SPRINGFIELD INSTITUTION FOR SAVINGS BOOK 2485 PAGE 395

Map ID: 112800407 # SUMNER SPRINGFIELD INSTITUTION FOR SAVINGS BOOK 2485 PAGE 395

Map ID: 112800404 # SUMNER MASSACHUSETTS CVS PHARMACY LLC BOOK 17712 PAGE 99

Map ID: 012350250 #589 BELMONT RICHARD P. CROWLEY JOHN BONAVITA & CAROL SLATE TRUSTEES BOOK 17485 PAGE 0163

Map ID: 012350254 #585 BELMONT RICHARD P. CROWLEY JOHN BONAVITA & CAROL SLATE TRUSTEES BOOK 17485 PAGE 0163

Map ID: 012350108 #568 BELMONT SALMAR REALTY LLC BOOK 20154 PAGE 429

Map ID: 039100453 # DICKINSON SALMAR REALTY LLC BOOK 20154 PAGE 429

Map ID: 012350107 #582-586 BELMONT

Map ID: 012350110 #600 BELMONT HSU LIANG MIN & CUI QING ZHANG BOOK 21533 PAGE 72

Map ID: 039100094 W S DICKINSON SPRINGFIELD PARKING AUTHORITY BOOK 7792 PAGE 320

Map ID: 012350112 #616 BELMONT NGUYEN THUY TINA BOOK 14913 PAGE 0454

Map ID: 012350111 #624 BELMONT CHRISTOPHER DMD & P DONOHUE BOOK 05880 PAGE 03

Map ID: 030950002 #6-10 COMMONWEALTH KATHLEEN STEVENS-AEC TRUSTEE BOOK 07871 PAGE

Map ID: 03 #12-16 COMMO LATH & BINH T BOOK 16766 PAGE

BENCHMARK: PUNCH MARK ON BOLT OF HYDRANT EL=180.10

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SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	173	XXX
PROJECT FILE NO.		608717	

STREETSCAPE PLANS

20121457A70_LND01.DWG Plotted on 14-May-2018 12:45 PM

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MS VIEW: - LAYER STATE: - Plotter: DWG TO PDF.PC3 CTB File: MADOT-D.STB

N

NAD 83

ORMOND STREET (PUBLIC)

503

504

504+53.65

CONTINUED ON SHEET NO. XXX

CONTINUED ON SHEET NO. XXX

LIMIT OF WORK
STA. 308+52.39
N 2857962.5315
E 369955.0616

PROP. LOAM & SEED TYP.

PROP. CEM. CONC. SIDEWALK TYP.

PROP. GRAN. CURB TYP.

PROP. STREET TREE TYP. (SEE PLANTING PLAN)

PROP. LOAM & SEED TYP.

PROP. CEM. CONC. SIDEWALK

PROP. LOAM & SEED

PROJECT LIMIT

309+32.36

305 306 307 308 309

BELMONT AVENUE (ROUTE 83)
(PUBLIC)

PROP. GRAN. CURB

EXISTING TREE TO REMAIN TYP.

PROP. LOAM & SEED TYP.

PROP. CEM. CONC. SIDEWALK

PROP. LOAM & SEED TYP.

PROP. STREET LIGHT TYP.

TRENTON STREET (PUBLIC)

COMMONWEALTH AVENUE (PUBLIC)

WALDEN STREET
A 1913 CITY LAYOUT
50.00' WIDE
PLAN A36

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100
SCALE: 1" = 20'

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE / FLOWERING TREE
- LOAM AND SEED
- PAVER TYPE A (NON WALKABLE)
- PAVER TYPE B (WALKABLE)
- PAVER TYPE C (WALKABLE)
- SITE BENCH
- TRASH RECEPTACLE
- STREET LIGHT WITH HANDHOLE
- PEDESTRIAN LEVEL LIGHTING
- STREET LIGHT WITH PAVER BANDING
- CATENARY LIGHT POST CATENARY LIGHTING
- TREE UPLIGHTING
- ALUMINUM FENCE
- TREE BOX FILTER
- PERMEABLE TREE SURROUND
- STONE PILLAR
- BIKE RACK
- BOLLARD
- GRANITE SEAT WALL WITH SLOTTED BIKE RACK
- SQUARE GRANITE SEAT WITH UNDERMOUNT LIGHTING

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	174	XXX
PROJECT FILE NO.	608717		

STREETSCAPE PLANS

N

NAD 83

LIMIT OF WORK
STA. 401+06.43
N 2858697.3479
E 368688.9831

GRENADA TERRACE (PUBLIC)

DICKINSON STREET (PUBLIC)

BURLINGTON STREET (PUBLIC)

BEGIN PROP. GRAN. CURB

MEET LINE AND GRADE OF EX. SIDEWALK

PROP. LOAM & SEED TYP.

PROP. CEM. CONC. SIDEWALK

PROP. STREET TREE TYP. (SEE PLANTING PLANS)

PROP. 5' HT. ALUMINUM FENCE

PROP. PAVER TYPE A

PROP. PAVERS TYPE A

PROP. GRAN. CURB

PROP. ON-STREET RAIN GARDEN

PROP. STREET LIGHT WITH PAVER BANDING TYP.

PROP. STREET TREE WITH PERMEABLE TREE SURROUND TYP.

PROP. PAVERS TYPE C (RUNNINGBOND PATTERN)

PROP. CEM. CONC. WALK AT DRIVEWAY

PROP. STREET LIGHT (TYP)

PROP. SMALL STREET TREE WITH PERMEABLE TREE SURROUND TYP.

PC +80.47

PT +46.60

PC +10.40

PT +52.28

PT +33.20

CONTINUED ON SHEET NO. XXX

CONTINUED ON SHEET NO. XXX

FOR PROFILE: SEE SHEET NO. XX

0 20 50 100

SCALE: 1" = 20'

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE / FLOWERING TREE
- LOAM AND SEED
- PAVER TYPE A (NON WALKABLE)
- PAVER TYPE B (WALKABLE)
- PAVER TYPE C (WALKABLE)
- SITE BENCH
- TRASH RECEPTACLE
- STREET LIGHT WITH HANDHOLE
- PEDESTRIAN LEVEL LIGHTING
- STREET LIGHT WITH PAVER BANDING
- CATENARY LIGHT POST
- CATENARY LIGHTING
- TREE UPLIGHTING
- ALUMINUM FENCE
- TREE BOX FILTER
- PERMEABLE TREE SURROUND
- STONE PILLAR
- BIKE RACK
- BOLLARD
- GRANITE SEAT WALL WITH SLOTTED BIKE RACK
- SQUARE GRANITE SEAT WITH UNDERMOUNT LIGHTING

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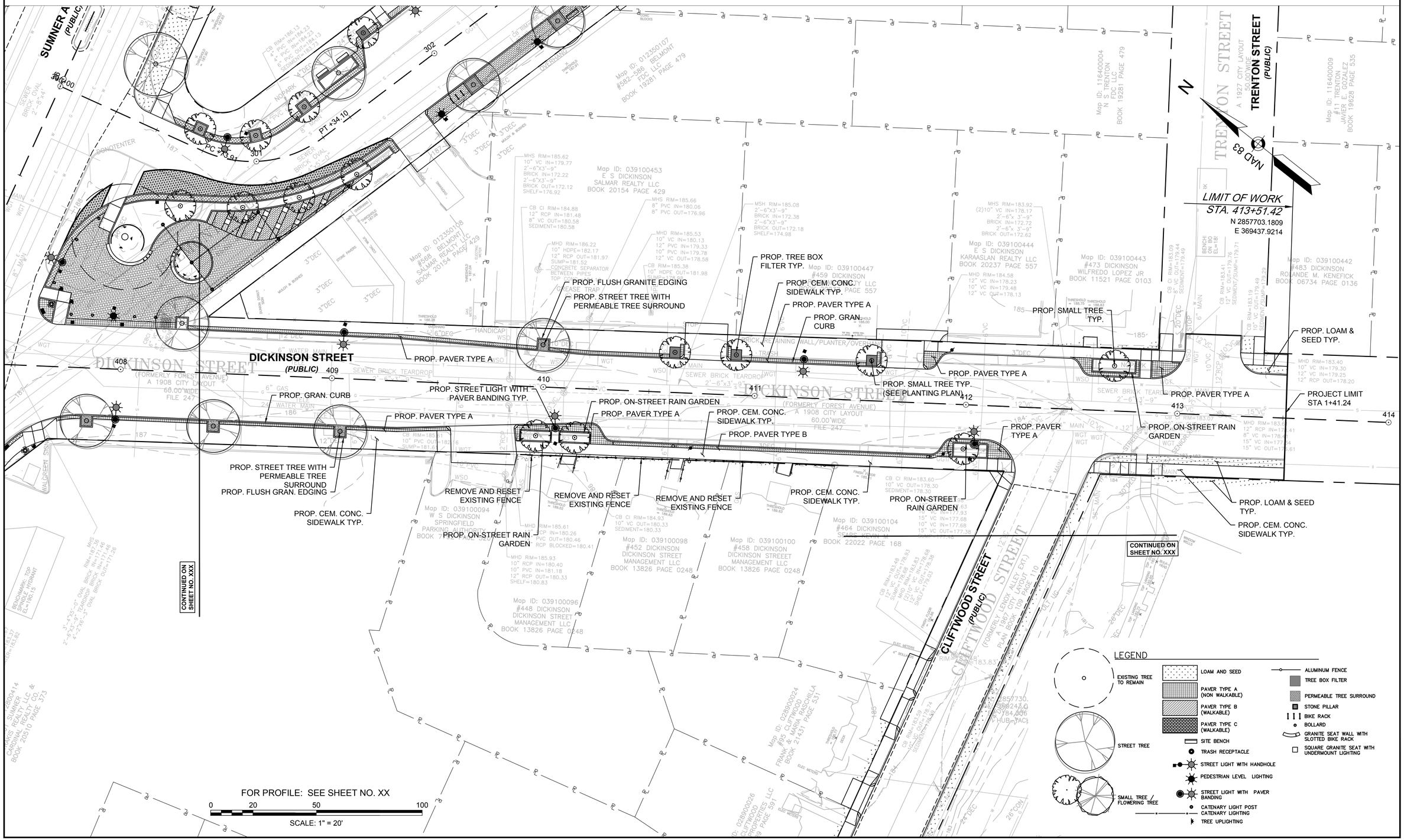
20121457A70_LND01.DWG Plotted on 14-May-2018 12:45 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	175	XXX
	PROJECT FILE NO.	608717	

STREETSCAPE PLANS



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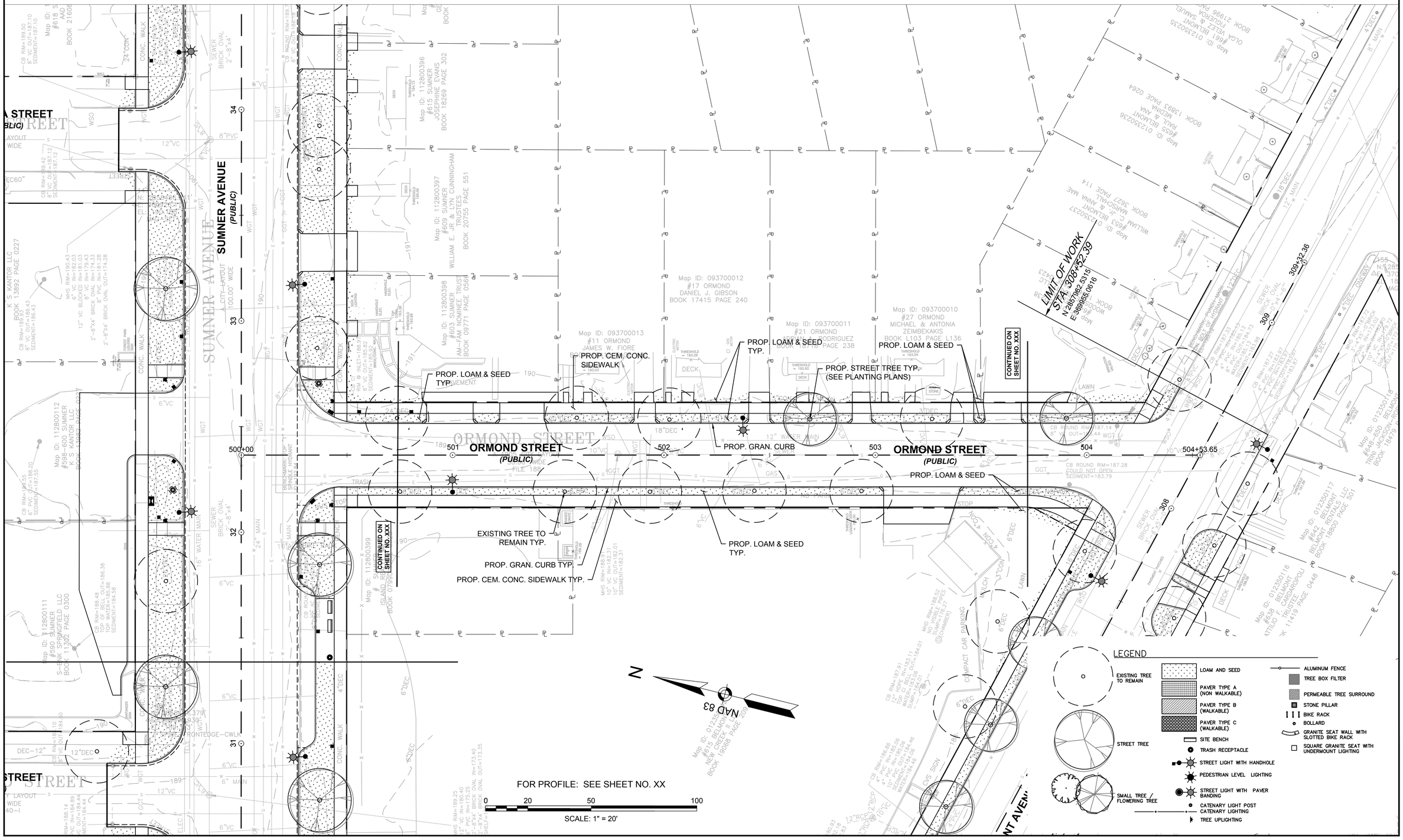
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	176	XXX
	PROJECT FILE NO.	608717	

STREETSCAPE PLANS



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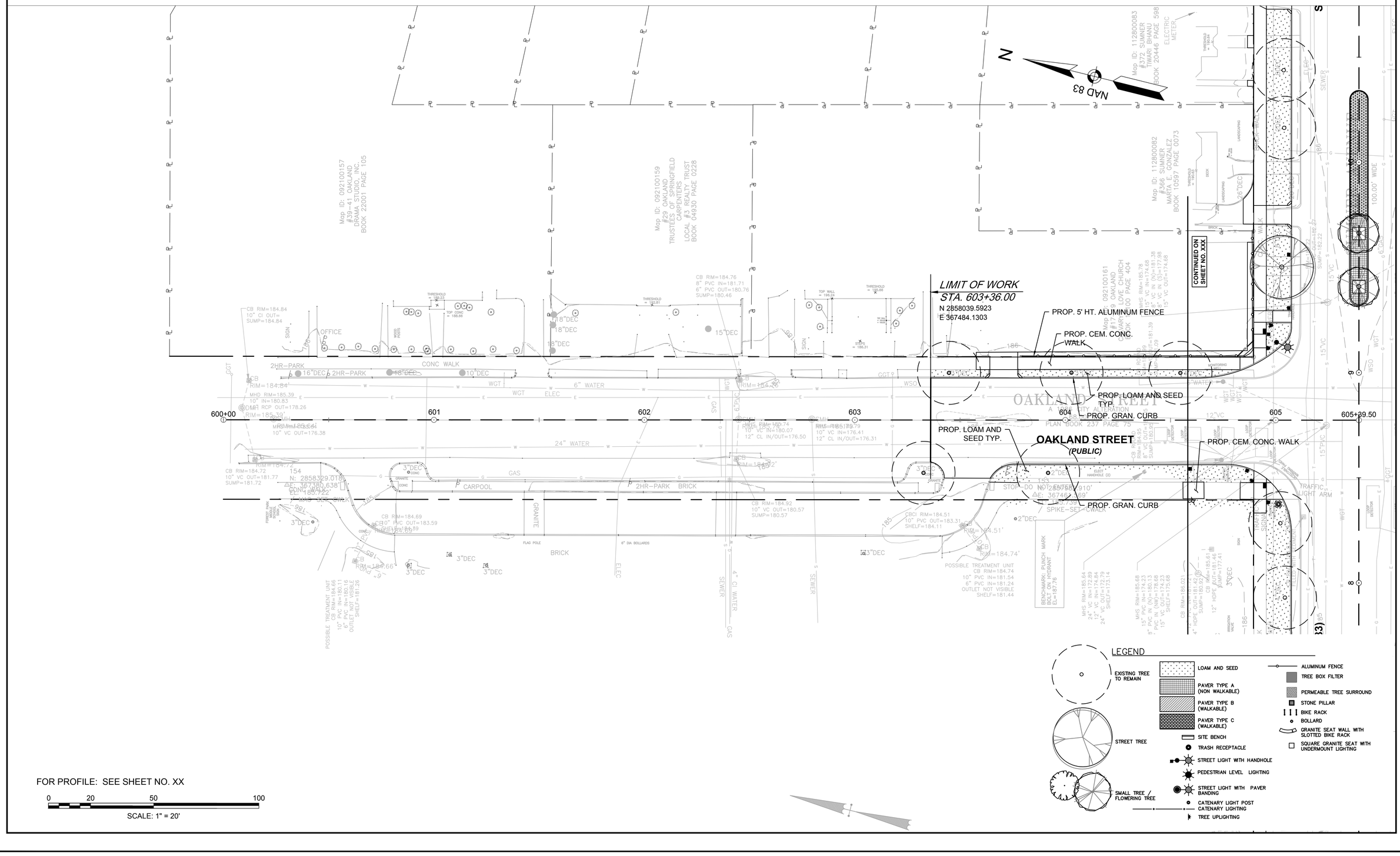
20121457A70_LND01.DWG Plotted on 14-May-2018 12:46 PM

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	177	XXX
	PROJECT FILE NO.	608717	

STREETSCAPE PLANS


NAD 83
Map ID: 092100157
#39-41 OAKLAND
DRAMA STUDIO, INC.
BOOK 22001 PAGE 105
Map ID: 092100159
#29 OAKLAND
TRUSTEES OF SPRINGFIELD
CARPENTERS
LOCAL #3 REALTY TRUST
BOOK 04930 PAGE 0228
Map ID: 112800083
#375 SUMNER
MARIA BANUS
BOOK 20446 PAGE 598
Map ID: 112800082
#366 SUMNER
MARTA E. GONZALEZ
BOOK 10597 PAGE 0073
Map ID: 092100161
#17 OAKLAND
ST MARY
LOVE CHURCH
BOOK 00 PAGE 404
LIMIT OF WORK
STA. 603+36.00
N 2858039.5923
E 367484.1303
PROP. 5' HT. ALUMINUM FENCE
PROP. CEM. CONC. WALK
PROP. LOAM AND SEED TYP.
PROP. GRAN. CURB
PROP. LOAM AND SEED TYP.
OAKLAND STREET
(PUBLIC)
PROP. CEM. CONC. WALK
PROP. GRAN. CURB
CONTINUED ON SHEET NO. XXX
600+00
601
602
603
604
605
605+39.50
OFFICE
CONC WALK
2HR-PARK
CARPOOL
2HR-PARK BRICK
BRICK
GRANITE
FLAG POLE
6" DIA. BOLLARDS
CB RIM=184.84
10" CI OUT=
SUMP=184.84
CB RIM=184.76
6" PVC IN=181.71
6" PVC OUT=180.76
SUMP=180.46
CB RIM=184.72
10" VC OUT=181.77
SUMP=181.72
CB RIM=184.69
10" PVC OUT=183.59
SHELF=184.59
CB RIM=184.92
10" VC OUT=180.57
SUMP=180.57
CBCI RIM=184.51
10" PVC OUT=183.31
SHELF=184.11
CB RIM=184.74'
POSSIBLE TREATMENT UNIT
CB RIM=184.74
10" PVC IN=181.54
6" PVC IN=181.24
OUTLET NOT VISIBLE
SHELF=181.44
BENCHMARK: PUNCH MARK
BOLT ON HYDRANT
EL=187.76
MHS RIM=185.64
24" VC IN=172.89
12" VC IN=174.84
24" VC OUT=172.79
SHELF=173.14
MHS RIM=185.68
15" PVC IN=174.23
8" PVC IN (N)=180.13
8" PVC IN (NW)=178.68
15" VC OUT=174.23
SHELF=175.68
CB RIM=186.02'
4" HDPE OUT=181.42
SUMP=180.92
CB RIM=185.61
12" HDPE OUT=181.46
SUMP=177.41
MHS RIM=185.78
15" VC IN (N)=181.38
15" VC IN (S)=177.98
15" VC OUT=174.68
MHS RIM=191.39
15" VC OUT=
SUMP=
CB RIM=184.84
10" CI OUT=
SUMP=184.84
MHD RIM=185.39
10" IN=180.83
DMH RCP OUT=178.26
MH RIM=185.39'
MHD RIM=185.64
10" VC OUT=176.38
MH RIM=184.72
10" VC IN=180.07
12" CL IN/OUT=176.50
MH RIM=185.74
10" VC IN=176.41
12" CL IN/OUT=176.31
CB RIM=184.72'
CB RIM=184.72
10" VC OUT=181.77
SUMP=181.72
CB RIM=184.69
CB RIM=184.59
CB RIM=184.92
10" VC OUT=180.57
SUMP=180.57
CB RIM=184.51
10" PVC OUT=183.31
SHELF=184.11
CB RIM=184.74'
POSSIBLE TREATMENT UNIT
CB RIM=184.74
10" PVC IN=181.54
6" PVC IN=181.24
OUTLET NOT VISIBLE
SHELF=181.44
BENCHMARK: PUNCH MARK
BOLT ON HYDRANT
EL=187.76
MHS RIM=185.64
24" VC IN=172.89
12" VC IN=174.84
24" VC OUT=172.79
SHELF=173.14
MHS RIM=185.68
15" PVC IN=174.23
8" PVC IN (N)=180.13
8" PVC IN (NW)=178.68
15" VC OUT=174.23
SHELF=175.68
CB RIM=186.02'
4" HDPE OUT=181.42
SUMP=180.92
CB RIM=185.61
12" HDPE OUT=181.46
SUMP=177.41
CB RIM=186.02'
CB RIM=184.72
10" VC OUT=181.77
SUMP=181.72
CB RIM=184.69
CB RIM=184.59
CB RIM=184.92
10" VC OUT=180.57
SUMP=180.57
CBCI

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	178	XXX
	PROJECT FILE NO. 608717		

STREETSCAPE ENLARGEMENT PLAN

PROP. STREET TREE WITH PERMEABLE TREE SURROUND TYP. (SEE PLANTING PLAN)
PROP. PAVER EDGING TYP.
PROP. PAVER TYPE C (RUNNING BOND PATTERN)
PROP. PAVER TYPE B (RUNNINGBOND PATTERN)
PROP. 2.5' x 2.5' SQ. GRANITE SEAT WITH UNDERMOUNT LIGHTING TYP.
PROP. CATENARY LIGHTING TYP.
PROP. CATENARY LIGHT POST TYP.
PROP. CEM. CONC. WALK
PROP. 6' HT. GRAN. CURB PLANTER
PROP. SMALL TREE TYP. (SEE PLANTING PLAN)
PROP. 6" HT. GRAN. CURB PLANTER TYP.
PROP. 3' HT. PILLAR WITH WALL MOUNTED RECESSED LIGHTING TYP. (STONE VENEER TO MATCH PAVER TYPE B)
PROP. PAVER TYPE B (RUNNINGBOND PATTERN)
PROP. SMALL TREE TYP. (SEE PLANTING PLAN)
PROP. 6" HT. GRAN. CURB PLANTER TYP.
PROP. 6' BENCH TYP.
PROP. TRASH RECEPTACLE TYP.
PROP. PEDESTRIAN LEVEL LIGHTING TYP.
PROP. CEM. CONC. WALK
PROP. GRAN. STEPS
PROP. RELOCATION OF EXISTING TREE
PROP. BOLLARD TYP.
PROP. STREET LIGHT WITH PAVER BANDING TYP.
PROP. PAVER TYPE C (HERRINGBONE PATTERN)
PROP. PAVER TYPE B
PROP. 6' HT. GRAN. CURB PLANTER
PROP. PAVER TYPE A

PC +99.99
PT +53.33
PC +10.40
254
254+30.01

Map ID: 012350258
#523 BELMONT
MINH TAI INC
BOOK 21390 PAGE 131

Map ID: 039100086
#400 DICKINSON
THOMAS & KIM VUONG
BOOK 17187 PAGE 0515

Map ID: 112800099
#512 SUMNER
BRIAN M. & JACQUELINE M.
TORPEY
BOOK 11045 PAGE 0145

BENCHMARK: TOP "1"
SPINDLE HYDRANT
EL=189.84

DICKINSON STREET
(PUBLIC)

60.00 WIDE CITY LAYOUT
AN 1896
BOOK 548 PAGE 601

SUMNER AVENUE (ROUTE 83)
(PUBLIC)

FOR PROFILE: SEE SHEET NO. XX

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

LEGEND

EXISTING TREE TO REMAIN
STREET TREE
SMALL TREE / FLOWERING TREE

LOAM AND SEED
PAVER TYPE A (NON WALKABLE)
PAVER TYPE B (WALKABLE)
PAVER TYPE C (WALKABLE)
SITE BENCH
TRASH RECEPTACLE
STREET LIGHT WITH HANDHOLE
PEDESTRIAN LEVEL LIGHTING
STREET LIGHT WITH PAVER BANDING
CATENARY LIGHT POST CATENARY LIGHTING
TREE UPLIGHTING

ALUMINUM FENCE
TREE BOX FILTER
PERMEABLE TREE SURROUND
STONE PILLAR
BIKE RACK
BOLLARD
GRANITE SEAT WALL WITH SLOTTED BIKE RACK
SQUARE GRANITE SEAT WITH UNDERMOUNT LIGHTING

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SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	179	XXX
	PROJECT FILE NO. 608717		

STREETSCAPE ENLARGEMENT PLAN

SUMNER AVENUE
(PUBLIC)

PROP. PAVER TYPE A TYP.
PROP. STREET LIGHT WITH PAVER BANDING TYP.
PROP. PAVER TYPE C TYP. (HERRINGBONE PATTERN)
PROP. BOLLARD TYP.
PROP 18" HT. GRANITE SEAT WALL WITH SLOTTED BIKE RACK
EXISTING SPECIMEN TREE TO REMAIN
PROP. TREE UPLIGHTING TYP.
PROP 18" HT. GRANITE SEAT WALL WITH SLOTTED BIKE RACK
PROP. PAVER TYPE A
PROP. 6" HT. GRAN. CURB PLANTER
PROP. PAVERS TYPE C
PROP. FLUSH GRANITE CURB
PROP. CATENARY LIGHTING TYP.
PROP. FLUSH GRAN. EDGING
PROP. STREET TREE WITH PERMEABLE TREE SURROUND
PROP. GRAN. CURB
PROP. SMALL TREE TYP. (SEE PLANTING PLAN)
PROP. 6' HT. METAL IMAGE WALL
PROP. METAL SCREEN UPLIGHTING
PROP. CEM. CONC. WALK TYP.
PROP. CATENARY LIGHTING POST TYP.
PROP. PAVER TYPE B TYP.
PROP. 2.5' x 2.5' SQ. GRANITE SEAT WITH UNDERMOUNT LIGHTING TYP.
PROP. PAVER TYPE C TYP. (RUNNING BOND PATTERN)
PROP. 6" HT. GRAN. CURB PLANTER

DICKINSON STREET
(PUBLIC)

FOR PROFILE: SEE SHEET NO. XX

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

LEGEND

- EXISTING TREE TO REMAIN
- STREET TREE
- SMALL TREE / FLOWERING TREE
- LOAM AND SEED
- PAVER TYPE A (NON WALKABLE)
- PAVER TYPE B (WALKABLE)
- PAVER TYPE C (WALKABLE)
- SITE BENCH
- TRASH RECEPTACLE
- STREET LIGHT WITH HANDHOLE
- PEDESTRIAN LEVEL LIGHTING
- STREET LIGHT WITH PAVER BANDING
- CATENARY LIGHT POST
- CATENARY LIGHTING
- TREE UPLIGHTING
- ALUMINUM FENCE
- TREE BOX FILTER
- PERMEABLE TREE SURROUND
- STONE PILLAR
- BIKE RACK
- BOLLARD
- GRANITE SEAT WALL WITH SLOTTED BIKE RACK
- SQUARE GRANITE SEAT WITH UNDERMOUNT LIGHTING

Map ID: 01235025
#585 BELMONT
RICHARD P. CROWLE
JOHN BONAVITA &
CAROL SLATE
TRUSTEES
BOOK 17485 PAGE 0

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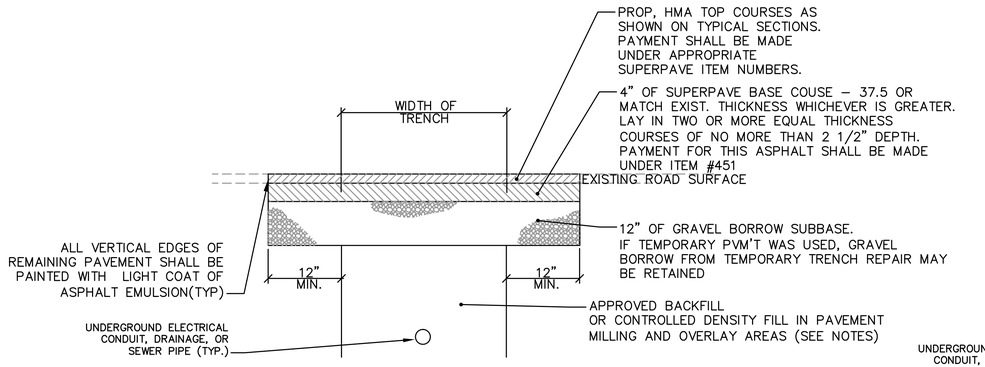
20121457A70_DET01.DWG 3-Apr-2018



NOTES:
OVERLAY AREAS: THE TRENCH SHALL BE REPAIRED TO THE TOP OF THE BASE COURSE. THE TOP COURSES SHALL BE PLACED WITH OVERLAY OF THE ROADWAY

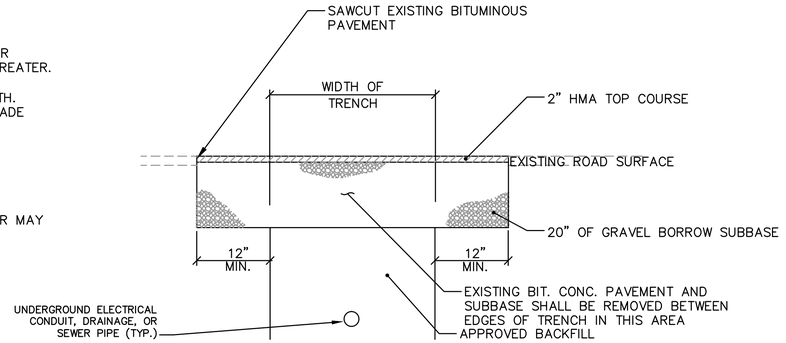
ROADWAY TRENCHING OUTSIDE OF FULL DEPTH AND OVERLAY: THE TRENCH SHALL BE REPAIRED WITH TOP COURSES INSTALLED WITH THE BASE COURSE.

CONTROLLED DENSITY FILL MAY BE USED IN LIEU OF APPROVED BACKFILL IN PAVEMENT MILLING AND OVERLAY AREAS WHERE NORMAL BACKFILL CANNOT PLACED OR TO REDUCE AMOUNT OF TIME NEED TO BACKFILL THE TRENCH. USE OF CONTROLLED DENSITY FILL TO BACKFILL TRENCHES SHALL BE APPROVED BY ENGINEER.

PERMANENT ASPHALT SHALL BE PAID FOR UNDER ITEM #451.

1 PERMANENT PAVEMENT TRENCH REPAIR IN ROADWAYS

SCALE: N.T.S.

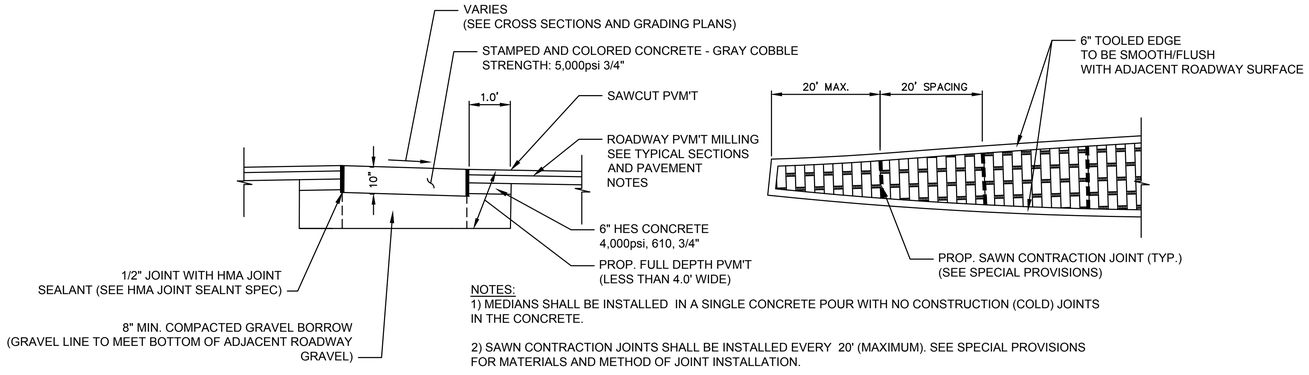


NOTES:
THE TEMPORARY PAVEMENT TRENCH REPAIR SHALL BE USED DURING THE TIME BETWEEN COMPLETION OF THE UTILITY CONSTRUCTION AND CONSTRUCTION OF THE PROPOSED ROADWAY PAVEMENT STRUCTURE OR PERMANENT PAVEMENT TRENCH REPAIR.

TEMPORARY ASPHALT SHALL BE PAID FOR UNDER ITEM #472

2 TEMPORARY PAVEMENT TRENCH REPAIR

SCALE: N.T.S.



NOTES:
1) MEDIANS SHALL BE INSTALLED IN A SINGLE CONCRETE POUR WITH NO CONSTRUCTION (COLD) JOINTS IN THE CONCRETE.

2) SAWN CONTRACTION JOINTS SHALL BE INSTALLED EVERY 20' (MAXIMUM). SEE SPECIAL PROVISIONS FOR MATERIALS AND METHOD OF JOINT INSTALLATION.

3) A 6" TOOLED EDGE SHALL BE INSTALLED TO MAKE A SMOOTH TRANSITION TO THE ADJACENT PAVEMENT

4 STAMPED & COLORED CONCRETE MEDIAN – GREY COBBLE

SCALE: N.T.S.

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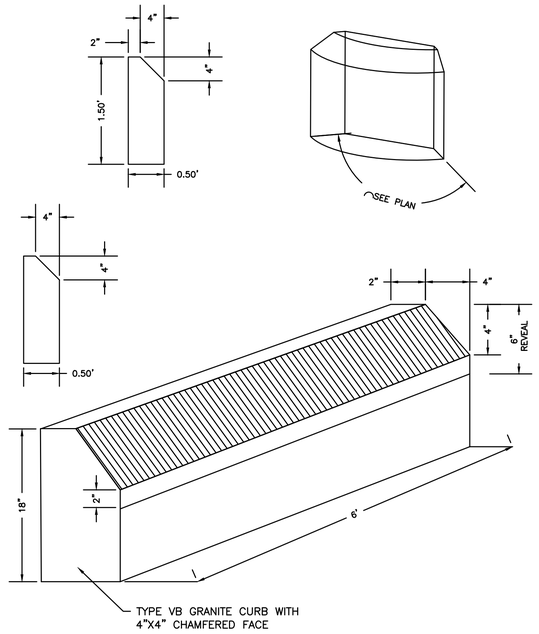
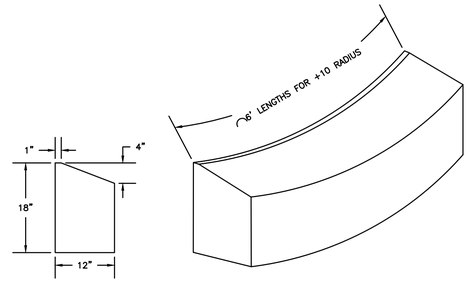
UCS: X MS VIEW: X LMAN: X STB: X
20121457A70_DET01.DWG 3-Apr-2018

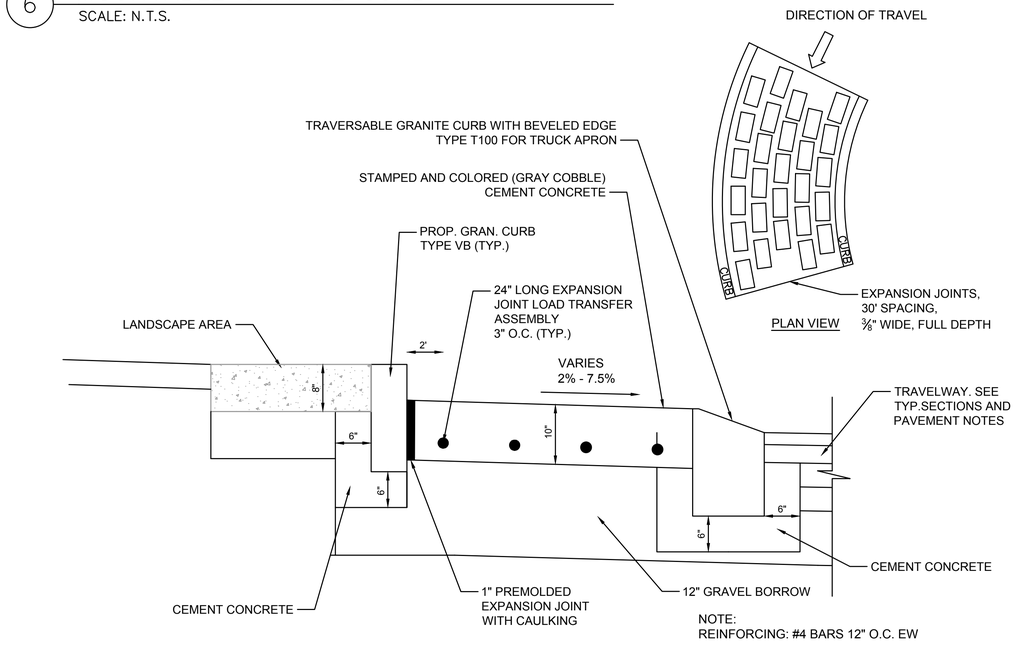
NOTE: MOUNTABLE GRANITE CURB IS GENERALLY INTENDED TO BE USED IN RAISED MEDIANS WITHIN SUMNER AVE. AND AT THE APPROACH SPLITTER ISLANDS AT ROUNDABOUTS. SEE CONSTRUCTION PLANS FOR LOCATIONS.



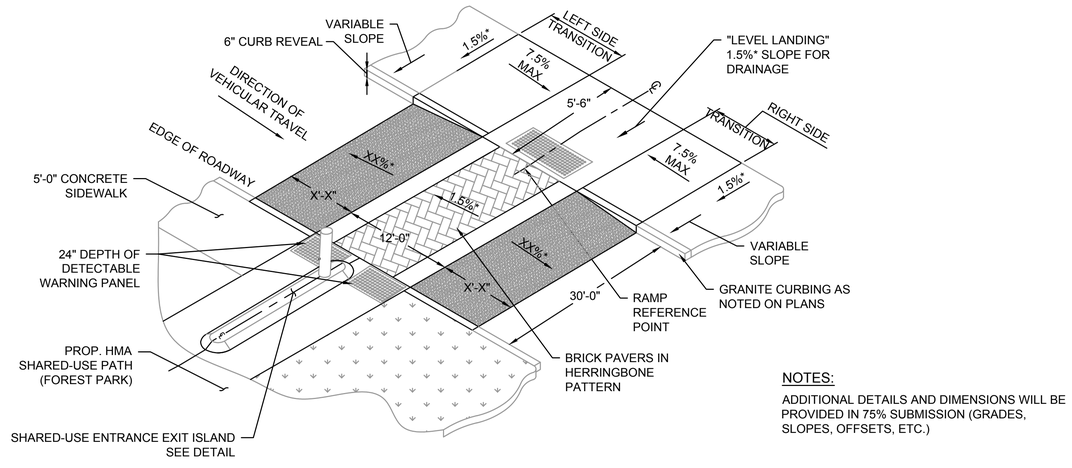
6 MOUNTABLE GRANITE CURB
SCALE: N.T.S.



8 TRAVERSABLE GRANITE CURB
SCALE: N.T.S.



7 STAMPED & COLORED CONCRETE TRUCK APRON – COBBLESTONE PATTERN
SCALE: N.T.S.



CLIFTWOOD STREET RAISED PEDESTRIAN CROSSWALK (SPEED TABLE)
N.T.S.

NOTES:

ADDITIONAL DETAILS AND DIMENSIONS WILL BE PROVIDED IN 75% SUBMISSION (GRADES, SLOPES, OFFSETS, ETC.)

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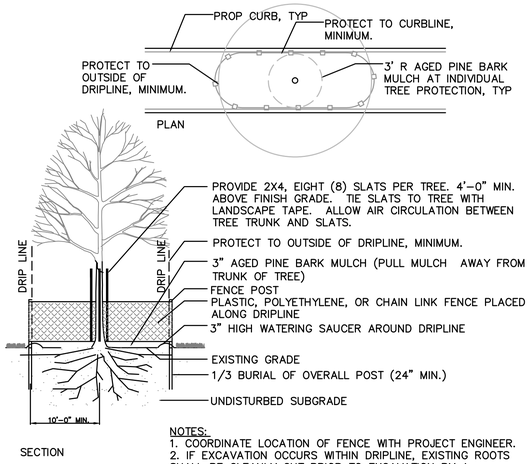
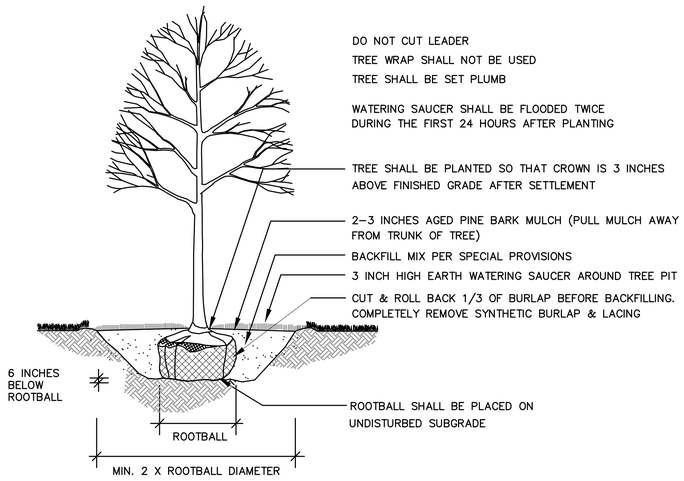


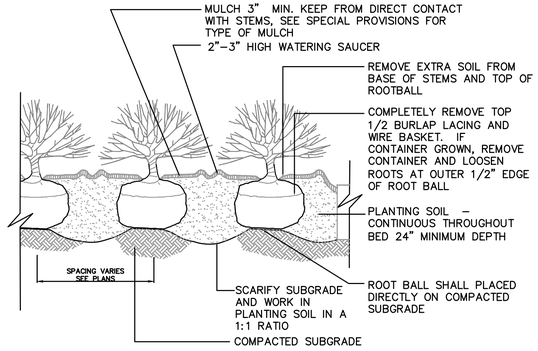
NOTES:
1. COORDINATE LOCATION OF FENCE WITH PROJECT ENGINEER.
2. IF EXCAVATION OCCURS WITHIN DRIPLINE, EXISTING ROOTS SHALL BE CLEANLY CUT PRIOR TO EXCAVATION BY A CERTIFIED ARBORIST AND TREES SHALL BE WATERED.

1 INDIVIDUAL TREE PROTECTION
SCALE: N.T.S.

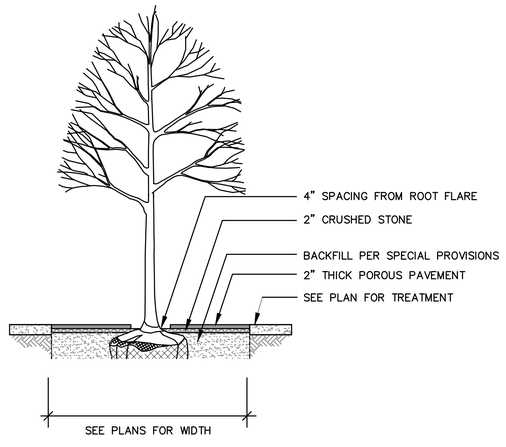


2 TREE PLANTING
SCALE: N.T.S.

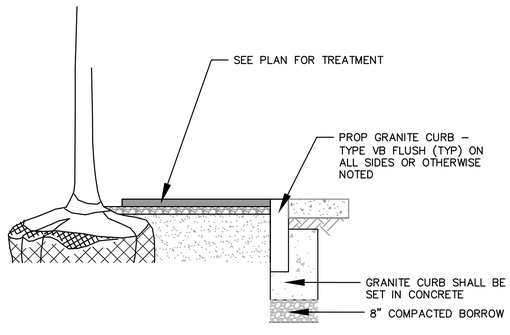
NOTES:
1. TOPSOIL SHALL HAVE A PH RANGE OF 5.5 TO 7 WITH A MINIMUM 2 PERCENT ORGANIC MATERIAL CONTENT. AMEND WITH SOIL AMENDMENTS AS NECESSARY.
2. NO PRUNING OR CUTTING UNLESS DIRECTED BY THE ENGINEER.
3. SAUCER SHALL BE FLOODED TWICE DURING THE FIRST 24 HOURS AFTER PLANTING.
4. PLANTS SHALL BE SET PLUMB AND PLANTED SO THAT THE TOP OF THE ROOTBALL IS 1"-2" ABOVE FINSHED GRADE.
5. COORDINATE PLANTING WITH RESIDENT ENGINEER PRIOR TO INSTALLATION.



3 SHRUB AND PERENNIAL PLANTING
SCALE: N.T.S.

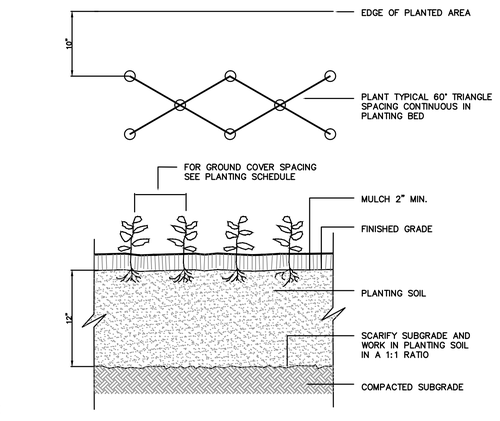


4 PERMEABLE TREE SURROUND
SCALE: N.T.S.

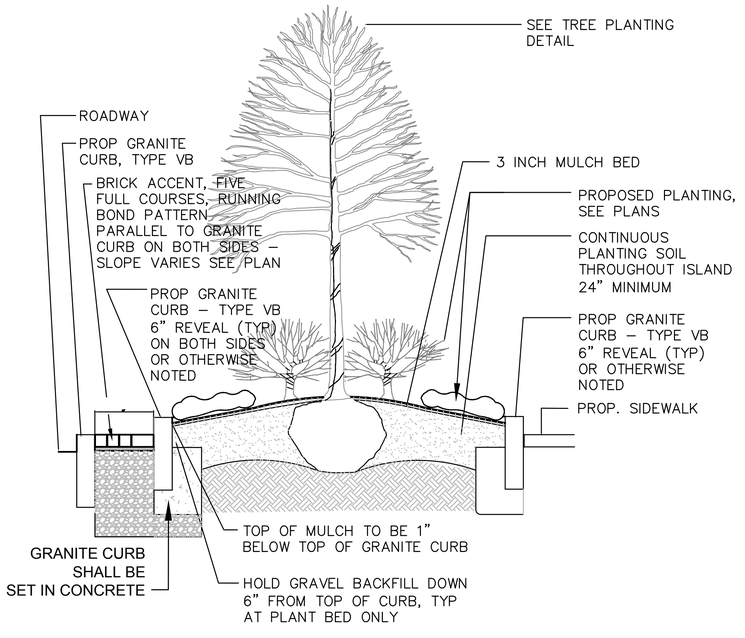


5 FLUSH GRANITE EDGING
SCALE: N.T.S.

NOTES:
TOPSOIL SHALL HAVE A PH RANGE OF 5.5 TO 7 WITH A MINIMUM 2 PERCENT ORGANIC MATERIAL CONTENT. AMEND WITH SOIL AMENDMENTS AS NECESSARY.



6 GROUNDCOVER PLANTING
SCALE: N.T.S.



7 RAISED GRANITE PLANTER
SCALE: N.T.S.

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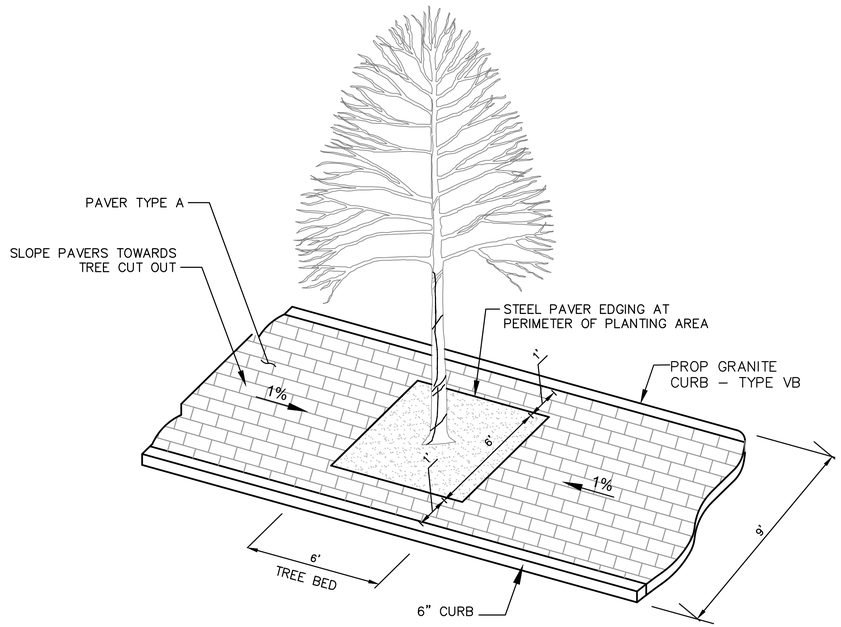
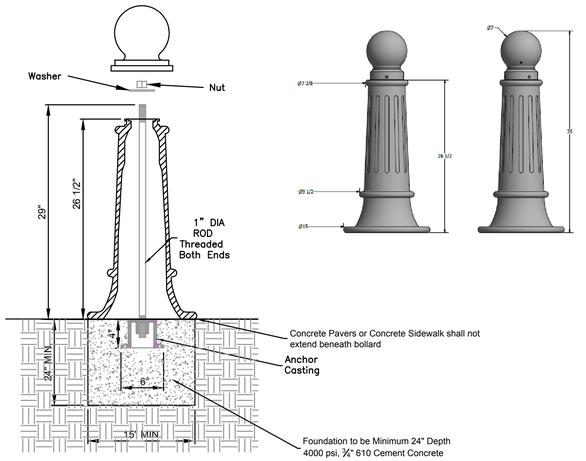


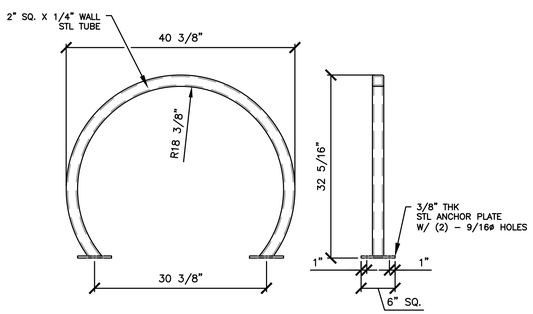
1 LANDSCAPE CENTER MEDIAN AT TREE

SCALE: N.T.S.



2 BOLLARD

SCALE: N.T.S.

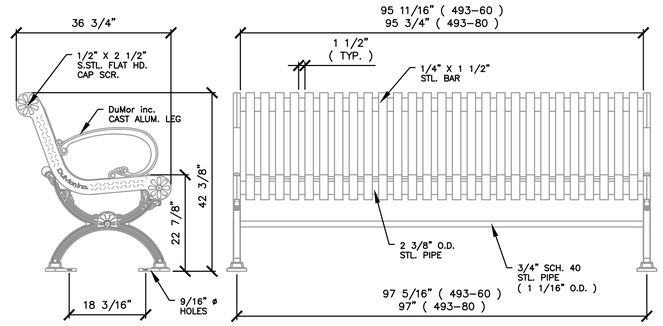




NOTE:
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED FOR OPTIONS S-2 & S-4.

3 BIKE RACK

SCALE: N.T.S.

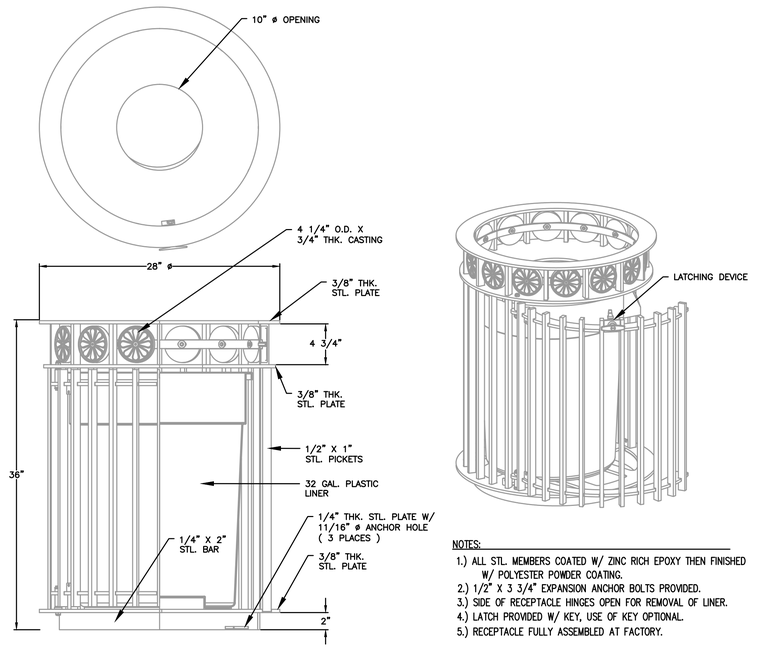




NOTES
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.

4 BENCH (6')

SCALE: N.T.S.



NOTES:
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.
3.) SIDE OF RECEPTACLE HINGES OPEN FOR REMOVAL OF LINER.
4.) LATCH PROVIDED W/ KEY, USE OF KEY OPTIONAL.
5.) RECEPTACLE FULLY ASSEMBLED AT FACTORY.

5 TRASH RECEPTACLE

SCALE: N.T.S.

STB: X LMAN: X MS VIEW: X UCS: X

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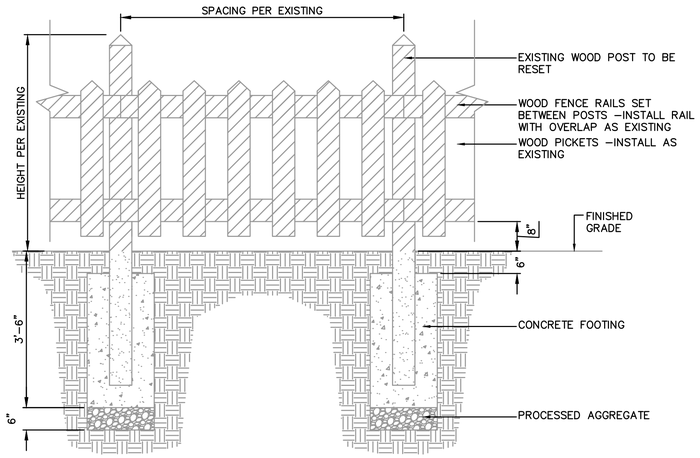
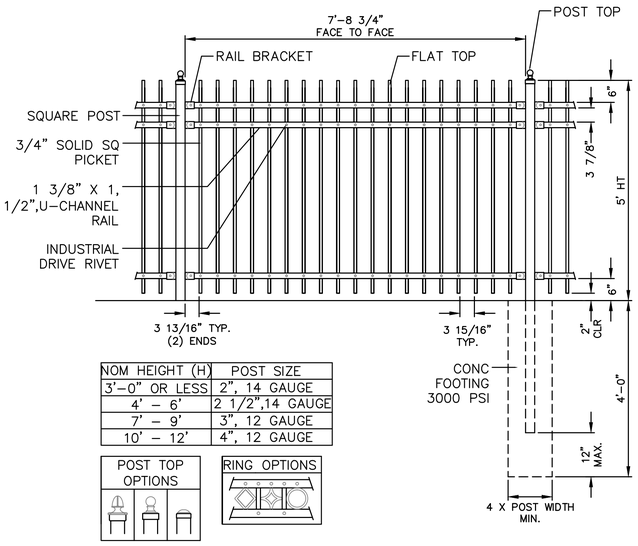
UCS: X
20121457A70_LND_DET01.DWG 3-Apr-2018



1 RESET EXISTING FENCE

SCALE: N.T.S.



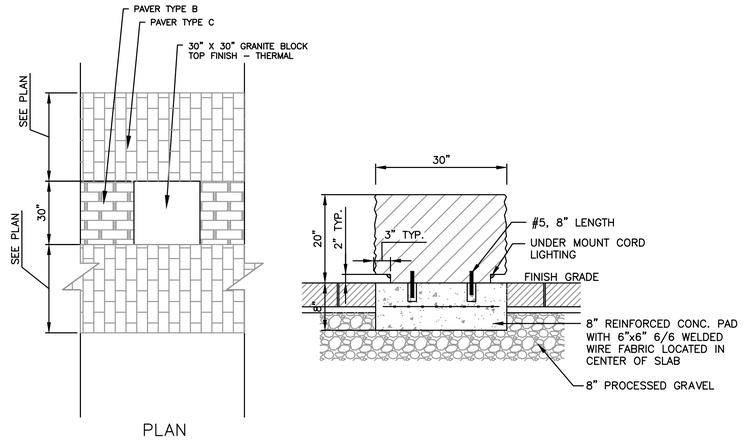
NOM HEIGHT (H)	POST SIZE
3'–0" OR LESS	2", 14 GAUGE
4' – 6'	2 1/2",14 GAUGE
7' – 9'	3", 12 GAUGE
10' – 12'	4", 12 GAUGE

POST TOP OPTIONS

RING OPTIONS

2 ALUMINUM FENCE

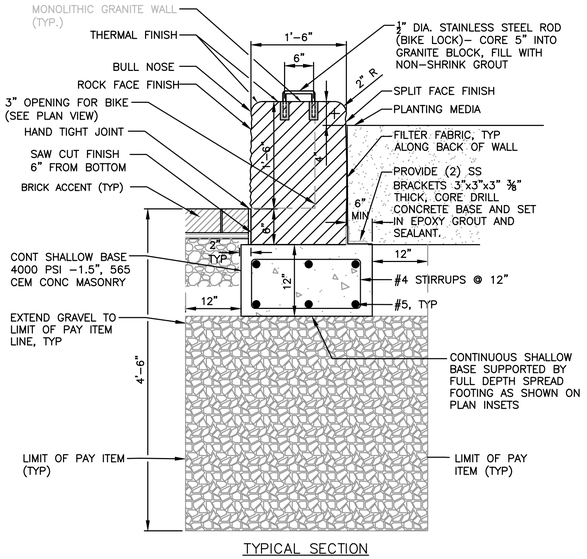
SCALE: N.T.S.



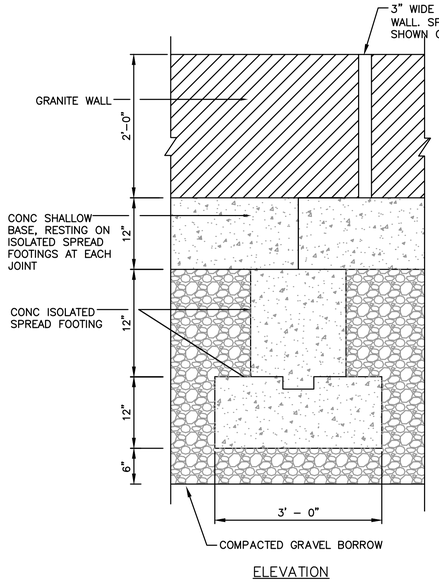
PLAN

3 SQUARE GRANITE SEAT WITH UNDERMOUNT LIGHTING

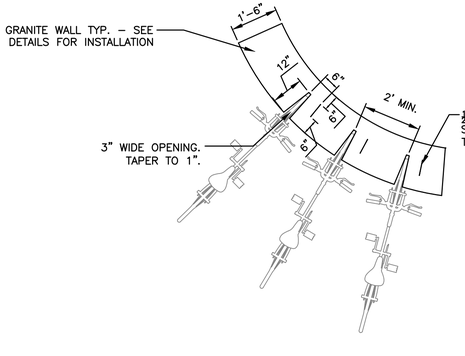
SCALE: N.T.S.



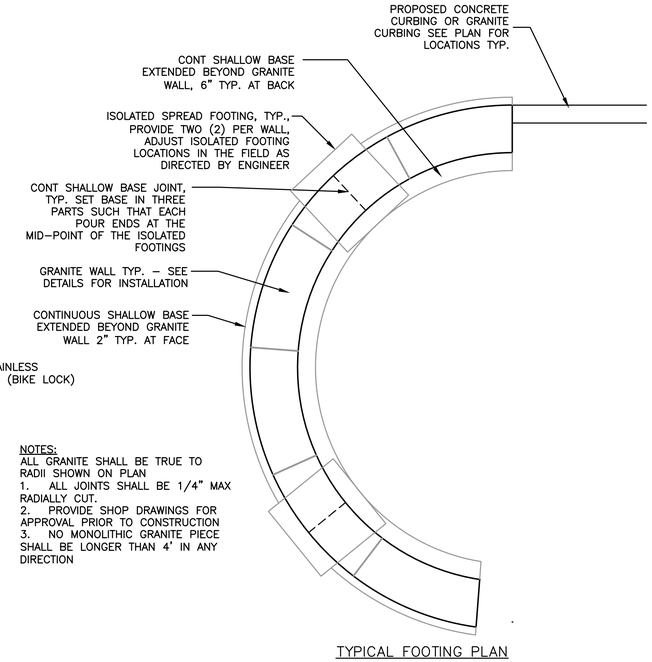
TYPICAL SECTION



ELEVATION



PLAN VIEW



NOTES:
ALL GRANITE SHALL BE TRUE TO RADII SHOWN ON PLAN
1. ALL JOINTS SHALL BE 1/4" MAX RADIALLY CUT.
2. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION
3. NO MONOLITHIC GRANITE PIECE SHALL BE LONGER THAN 4' IN ANY DIRECTION

TYPICAL FOOTING PLAN

4 GRANITE SEAT WALL WITH SLOTTED BIKE RACK

SCALE: N.T.S.

NOTES:
1. ALL GRANITE SHALL BE TRUE TO RADII SHOWN ON PLAN
2. ALL JOINTS SHALL BE 1/4" MAX RADIALLY CUT

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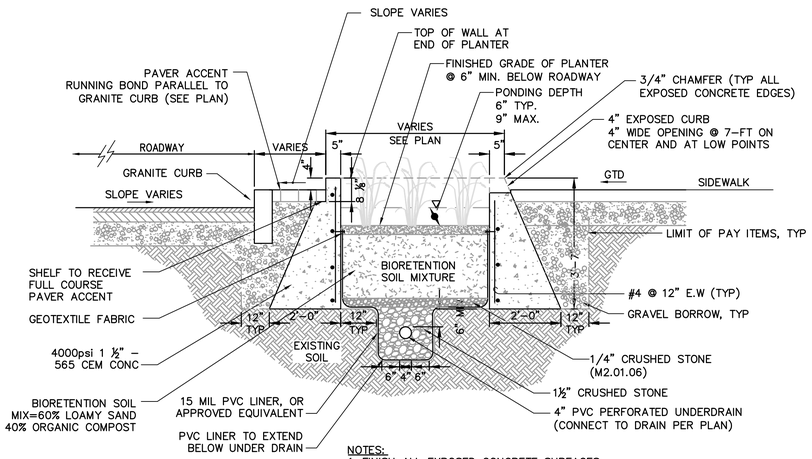
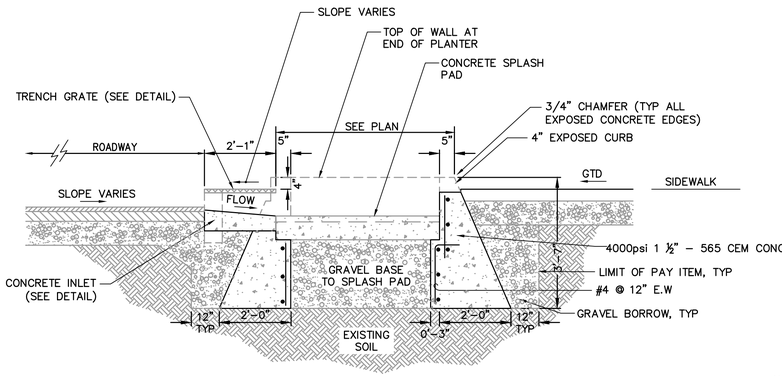


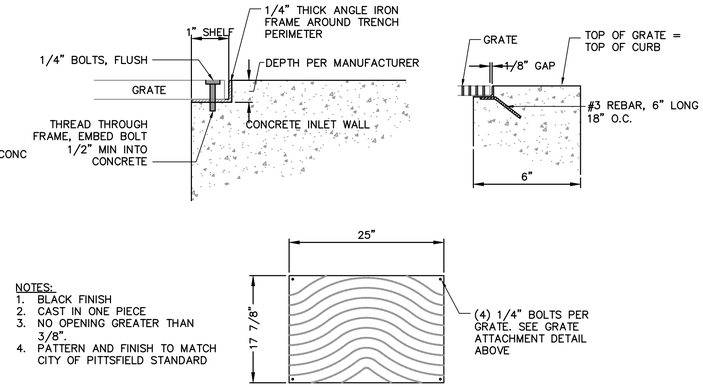
NOTES:
1. FINISH ALL EXPOSED CONCRETE SURFACES.
2. WATERPROOF CONCRETE SEALANT ON INSIDE OF WALL TYPICAL
3. BITUMINOUS DAMPROOFING ON OUTSIDE OF WALL TYPICAL.
4. SEAL UNDERDRAIN PIPE AND UTILITY SLEEVE PENETRATIONS OF PVC LINER PER MANUFACTURER'S RECOMMENDATIONS

RAIN GARDEN SECTION A–A
NTS



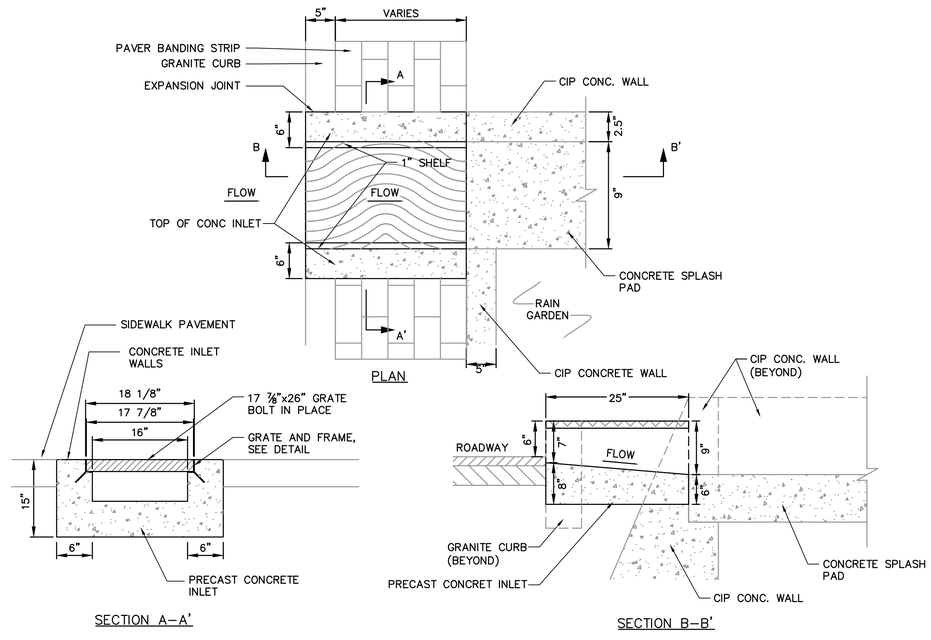
NOTES:
1. FINISH ALL EXPOSED CONCRETE SURFACES.
2. WATERPROOF CONCRETE SEALANT ON INSIDE OF WALL TYPICAL
3. BITUMINOUS DAMPROOFING ON OUTSIDE OF WALL TYPICAL.

CONCRETE SPLASH PAD SECTION B–B
NTS

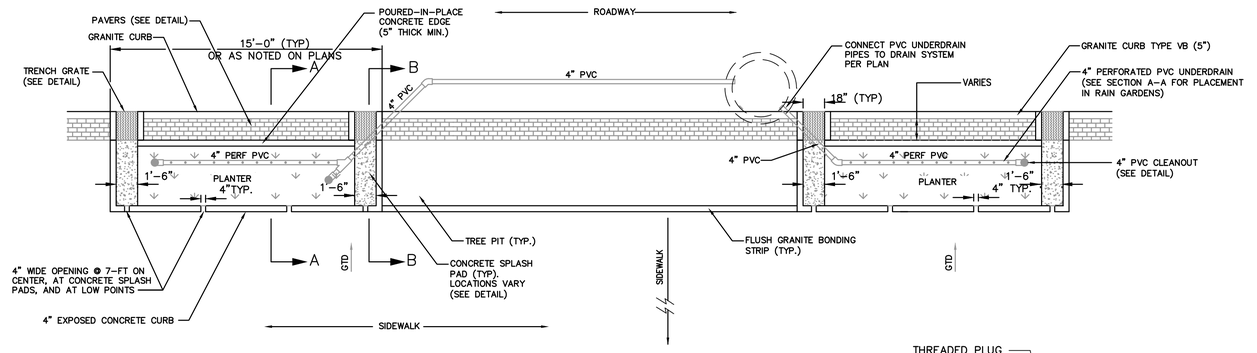


NOTES:
1. BLACK FINISH
2. CAST IN ONE PIECE
3. NO OPENING GREATER THAN 3/8".
4. PATTERN AND FINISH TO MATCH CITY OF PITTSFIELD STANDARD

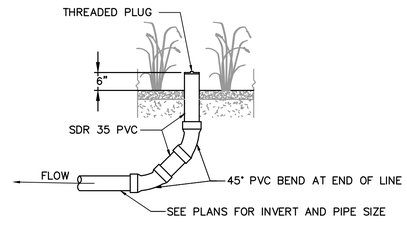
3 RAIN TRENCH DRAIN
SCALE: N.T.S.



1 RAIN GARDEN CONCRETE INLET
SCALE: N.T.S.



2 RAIN GARDEN TYPICAL DETAIL
SCALE: N.T.S.



4 RAIN GARDEN CLEANOUT
SCALE: N.T.S.

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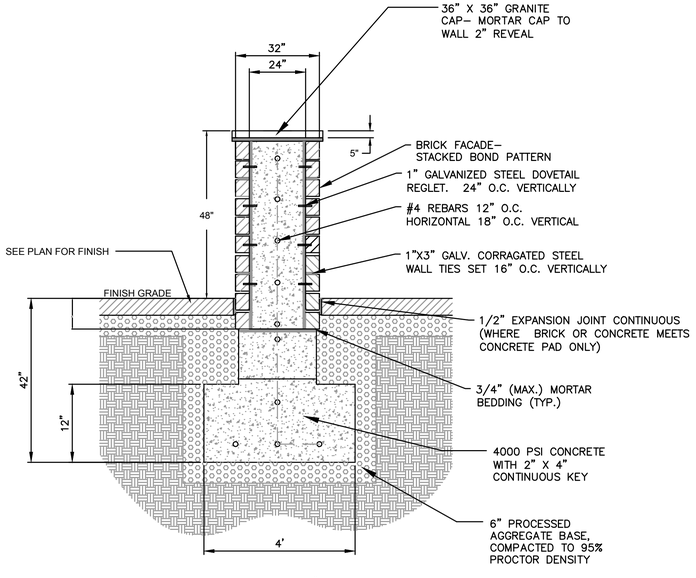
MS VIEW: X
UCS: X

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	186	XXX
	PROJECT FILE NO.	608717	

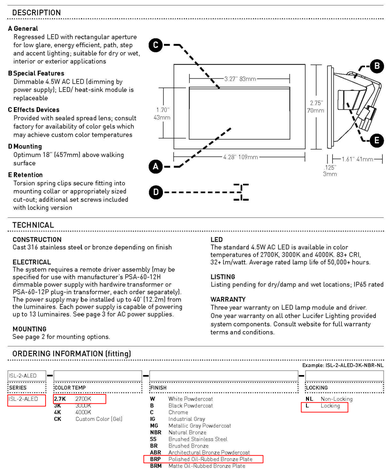
LANDSCAPE DETAILS

20121457A70_LND_DET01.DWG 3-Apr-2018



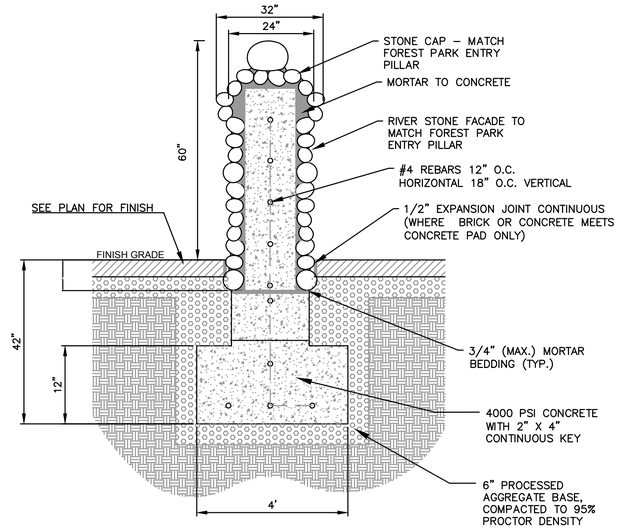
1 PILLAR AT PLAZA 4' HT WITH WALL MOUNTED RECESSED LIGHTING

SCALE: N.T.S.



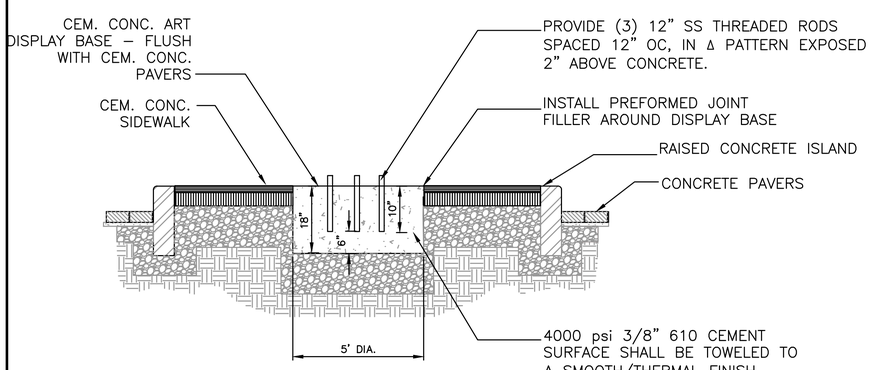
2 WALL MOUNTED RECESSED LIGHTING

SCALE: N.T.S.



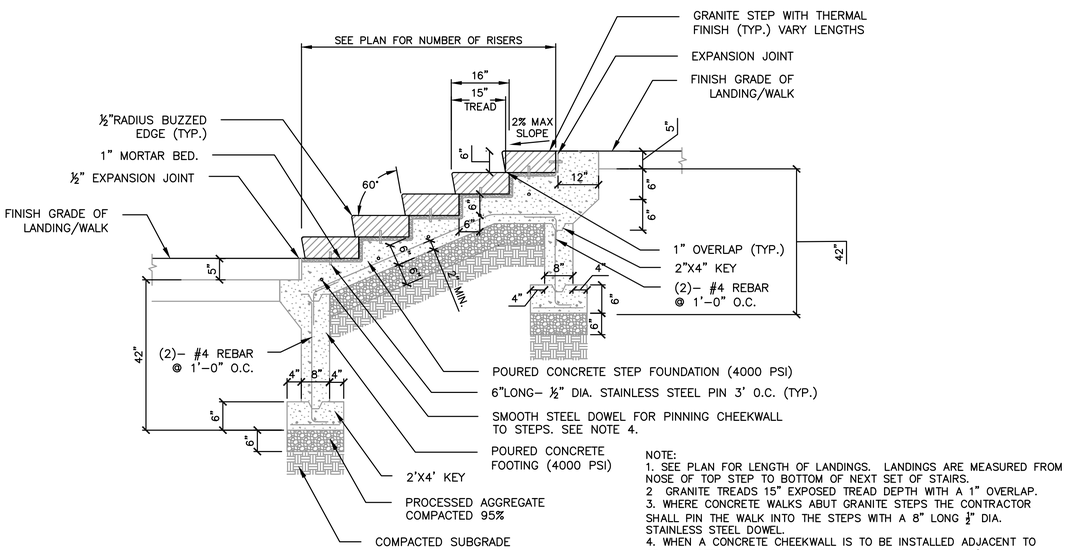
3 STONE PILLAR @ FOREST PARK – 5' HT

SCALE: N.T.S.



4 CONCRETE ART DISPLAY BASE

SCALE: N.T.S.



NOTE:
1. SEE PLAN FOR LENGTH OF LANDINGS. LANDINGS ARE MEASURED FROM NOSE OF TOP STEP TO BOTTOM OF NEXT SET OF STAIRS.
2 GRANITE TREADS 15" EXPOSED TREAD DEPTH WITH A 1" OVERLAP.
3. WHERE CONCRETE WALKS ABUT GRANITE STEPS THE CONTRACTOR SHALL PIN THE WALK INTO THE STEPS WITH A 8" LONG ½" DIA. STAINLESS STEEL DOWEL.
4. WHEN A CONCRETE CHEEKWALL IS TO BE INSTALLED ADJACENT TO GRANITE STEPS THE CONTRACTOR SHALL EMBED 6" LONG ½" DIA. STAINLESS STEEL DOWELS 4" INTO GRANITE STEPS. CORE DRILL AND SET WITH EPOXY. INSTALL ONE DOWEL PER STEP AS SHOWN.

5 GRANITE STEPS

SCALE: N.T.S.

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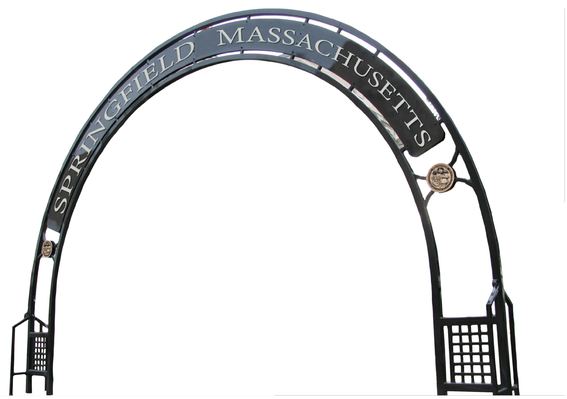
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

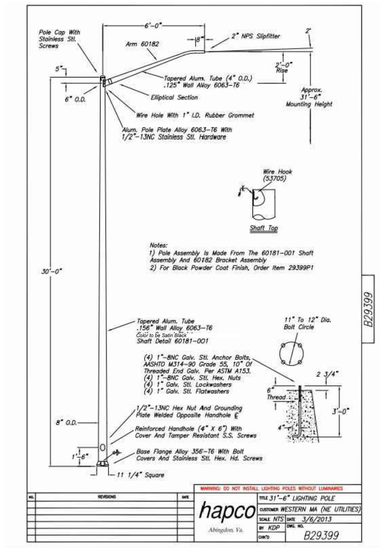
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	187	XXX
	PROJECT FILE NO. 608717		

LANDSCAPE DETAILS

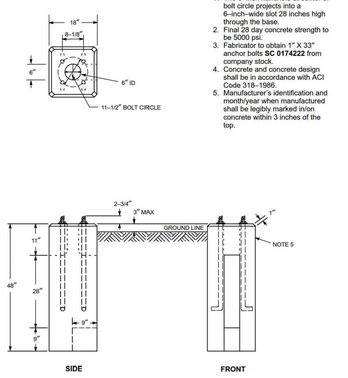


1 GATEWAY ARCH
SCALE: N.T.S.

DETAIL SHALL BE PROVIDED
WITH 75% SUBMISSION



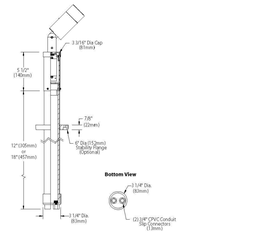
CITY STANDARD LIGHT POLE ASSEMBLY
(TO BE PROVIDED & INSTALLED BY CITY OF EVERSOURCE)
3 SCALE: N.T.S.

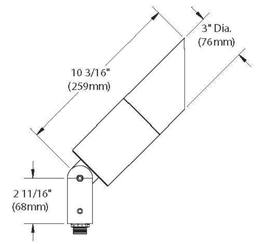


Notes
1. The 6–inch handhole at center of bolt circle projects into a 6–inch–wide slot 28 inches high through the base.
2. Final 28 day concrete strength to be 5000 psi.
3. Fabricator to obtain 1" X 33" anchor bolts **SC 0174222** from company stock.
4. Concrete and concrete design shall be in accordance with ACI Code 318–1986.
5. Manufacturer's identification and month/year when manufactured shall be legibly marked in/on concrete within 3 inches of the top.

ORIGINAL 8/13/75	BASE – STREET LIGHT – PRECAST CONCRETE – STANDARD			
APPROVED 8/10/88	NORTHEAST UTILITIES	MATERIAL SPECIFICATION	SPC B–159	8

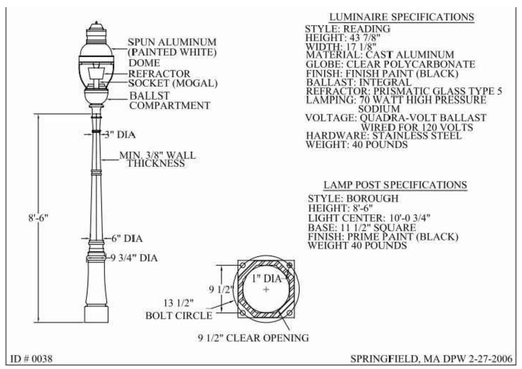
PRECAST CONCRETE LIGHT FOUNDATION
(TO BE PROVIDED & INSTALLED BY CONTRACTOR)
(DETAIL PROVIDED BY CITY OF SPRINGFIELD)
4 SCALE: N.T.S.



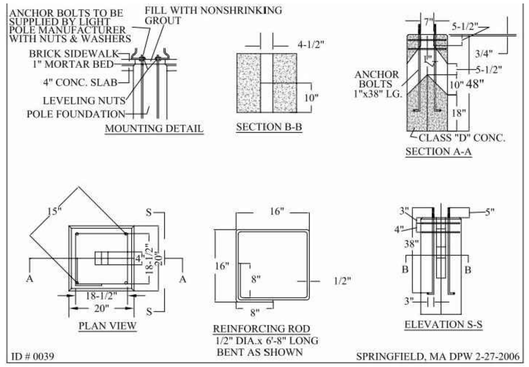


5 LANDSCAPE UPLIGHTING
SCALE: N.T.S.

2 GATEWAY ARCH FOOTING
SCALE: N.T.S.

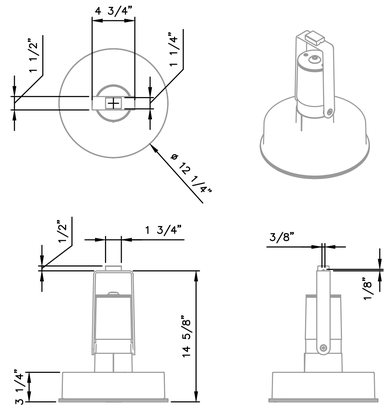


6 PEDESTRIAN LEVEL LIGHTING
SCALE: N.T.S.

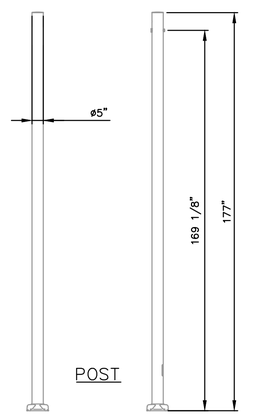


7 PEDESTRIAN LEVEL LIGHT POLE FOUNDATION
SCALE: N.T.S.





8 CATENARY LIGHTING
SCALE: N.T.S.



NOTE:
SEE PEDESTRIAN LEVEL LIGHT FOUNDATION DETAIL FOR FOOTING INFORMATION

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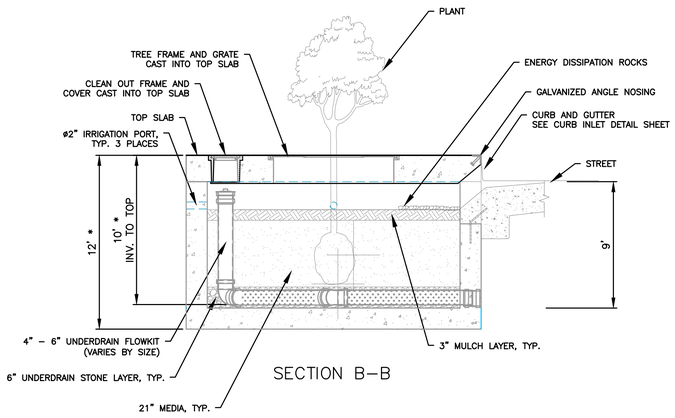
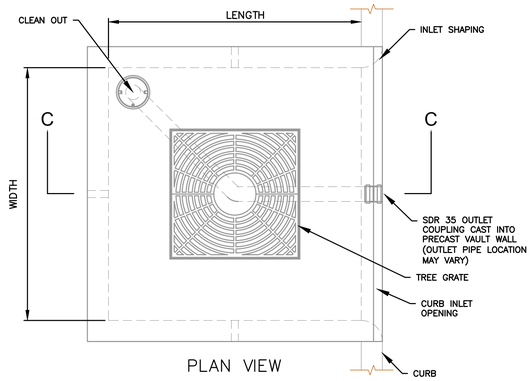
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	188	XXX
PROJECT FILE NO.	608717		

LANDSCAPE DETAILS

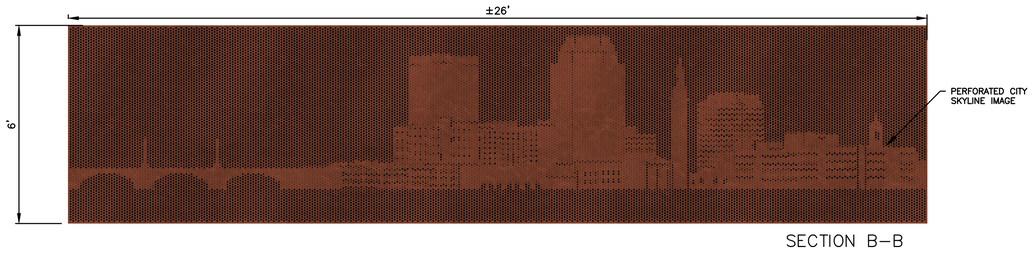
20121457A70_LND_DET01.DWG 3-Apr-2018

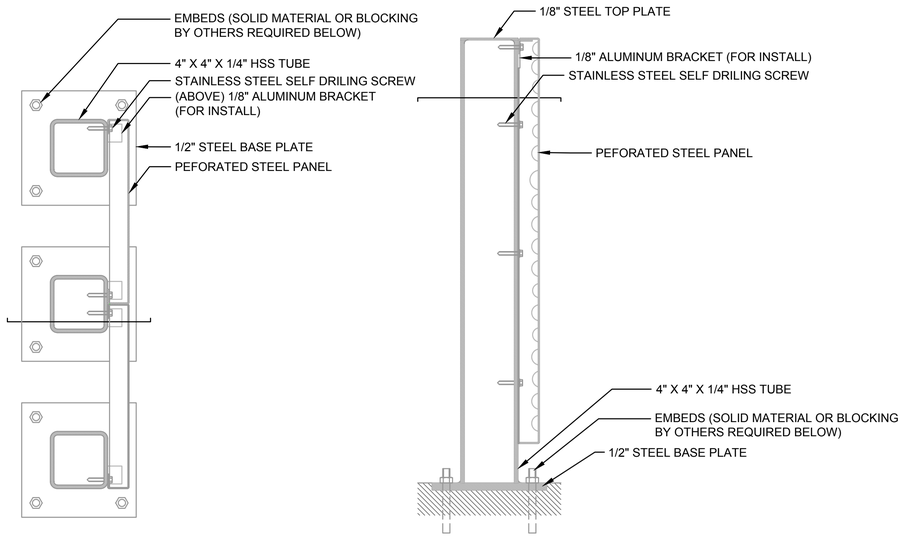




1 TREE BOX FILTER
SCALE: N.T.S.

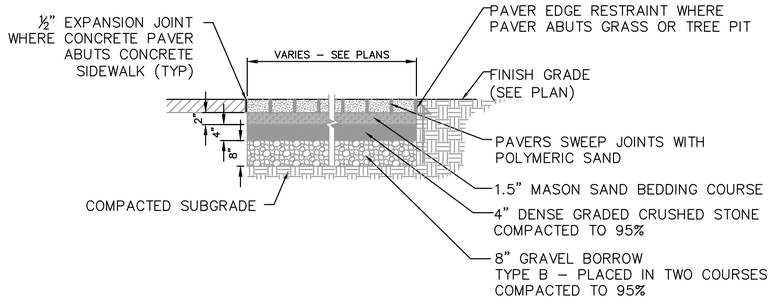
DETAIL SHALL BE PROVIDED
WITH 75% SUBMISSION



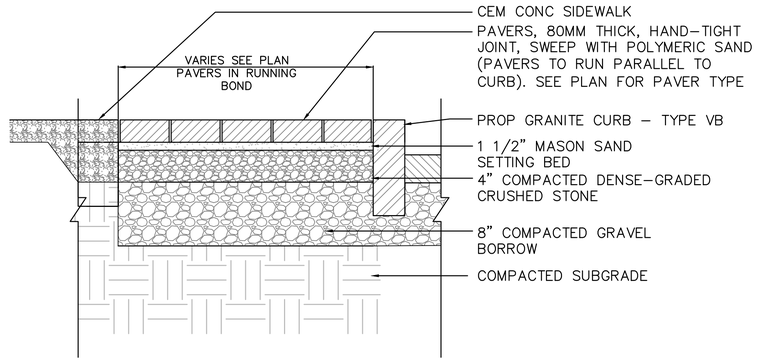


2 METAL IMAGE WALL
SCALE: N.T.S.

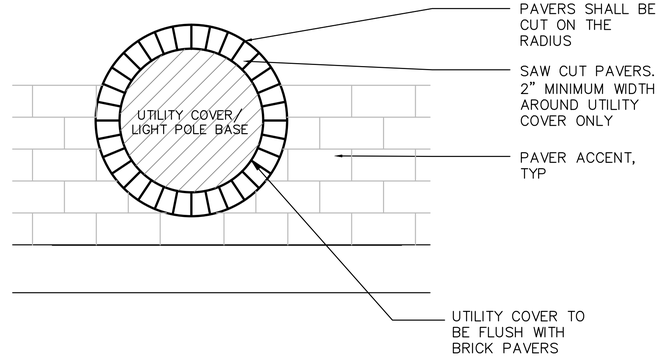
3 METAL IMAGE WALL FOUNDATION
SCALE: N.T.S.



4 PAVER SETTING BED
SCALE: N.T.S.



5 PAVER ACCENT IN SIDEWALK
SCALE: N.T.S.



DECORATIVE PAVER BANDING
LIGHT POLE BASE / UTILITY COVER
6
SCALE: N.T.S.

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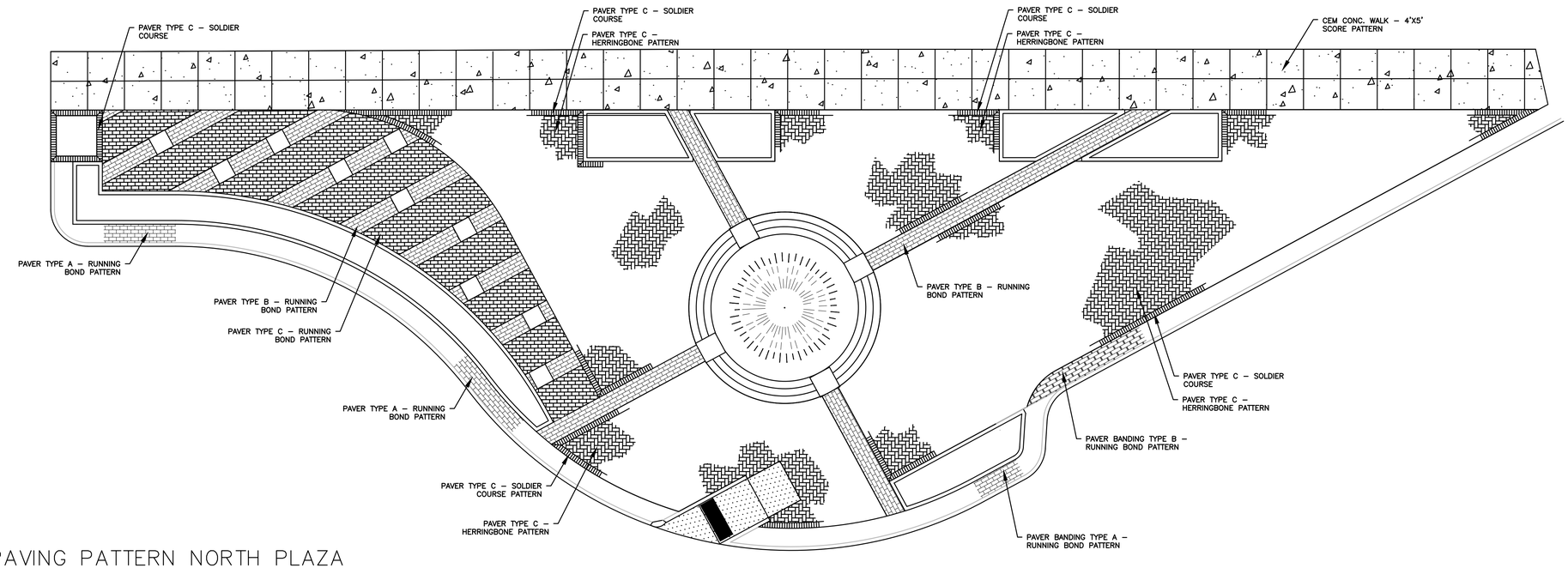
STB: X
LMAN: X
MS VIEW: X
UCS: X

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

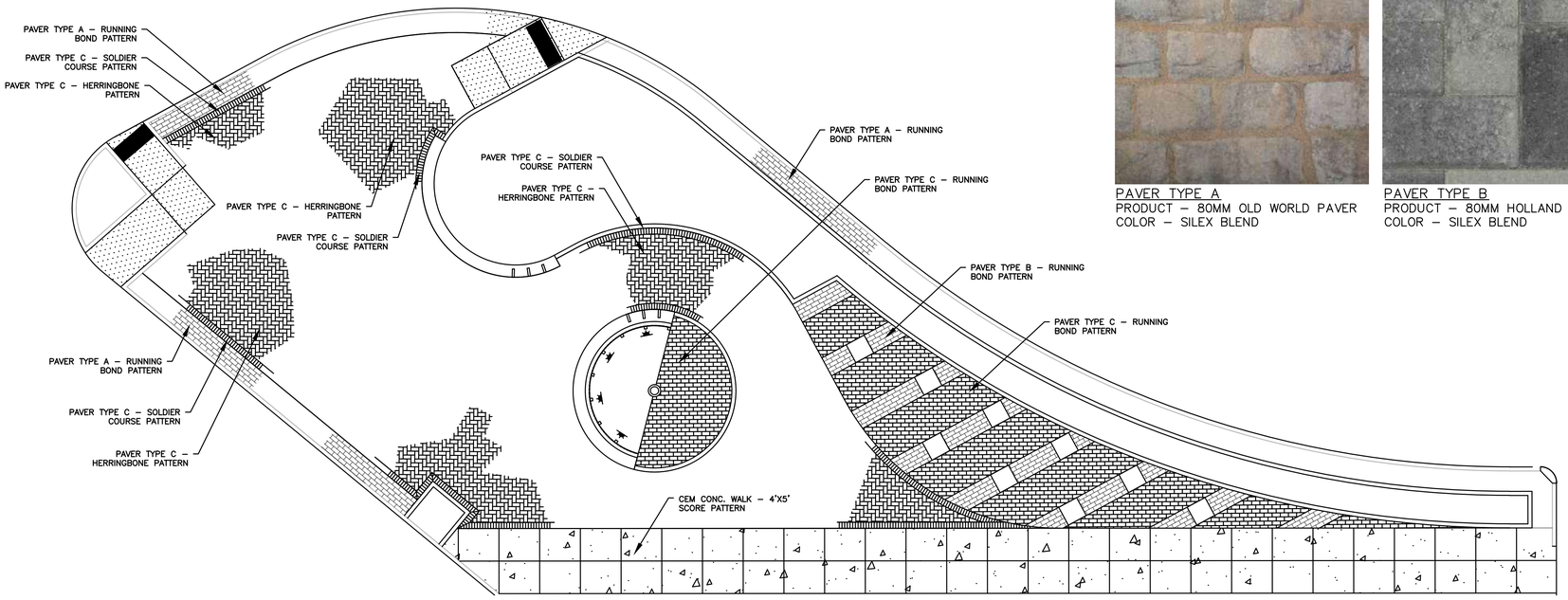
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	189	XXX
	PROJECT FILE NO.	608717	

LANDSCAPE DETAILS

3-Apr-2018
20121457A70_LND_DET01.DWG



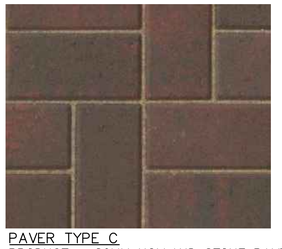
1 PAVING PATTERN NORTH PLAZA
SCALE: N.T.S.



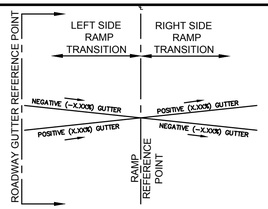
2 PAVING PATTERN SOUTH PLAZA
SCALE: N.T.S.

PAVER TYPE A
PRODUCT – 80MM OLD WORLD PAVER
COLOR – SILEX BLEND

PAVER TYPE B
PRODUCT – 80MM HOLLAND STONE PAVER
COLOR – SILEX BLEND



PAVER TYPE C
PRODUCT – 80MM HOLLAND STONE PAVER
COLOR – FANEUIL BLEND



NOTES:

THE ROADWAY GUTTER GRADE SHOULD BE READ BEGINNING FROM THE LEFT SIDE AND PROGRESSING TO THE RIGHT SIDE.

ROADWAY GUTTER GRADE REFERENCE

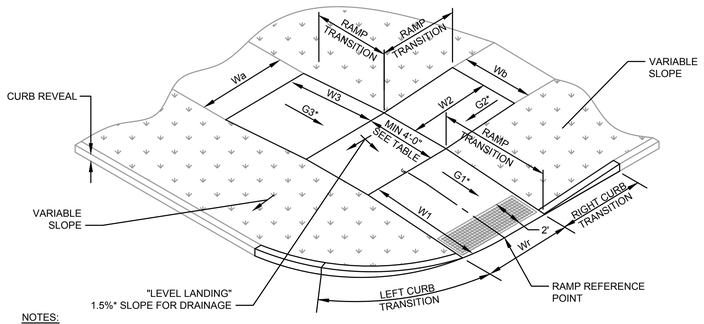
N.T.S.

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	190	XXX
PROJECT FILE NO.		608717	

WHEELCHAIR/DRIVEWAY RAMP DETAILS

RAMP DIMENSIONS/GUTTER SLOPES, AND CURB TRANSITION LENGTHS WILL BE PROVIDED AT 75% DESIGN



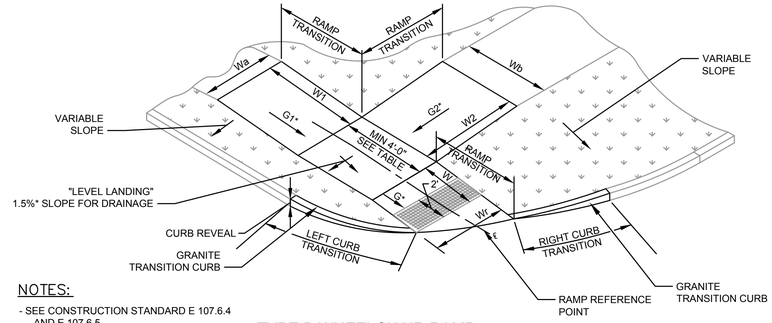
NOTES:

- SEE CONSTRUCTION STANDARD E 107.3.0 AND E 107.6.5
* CONSTRUCTION TOLERANCE ± 0.5%

TYPE A WHEELCHAIR RAMP

N.T.S.

WCR#	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (Wa)	WIDTH OF SIDEWALK (Wb)	WIDTH OF RAMP ENTRANCE (Wr = 5'-0" MIN.)	LENGTH OF RAMP (W1)	GRADE OF RAMP (G1)	LENGTH OF TRANSITION RAMP (W2)	GRADE OF TRANSITION RAMP (G2)	LENGTH OF TRANSITION RAMP (W3)	GRADE OF TRANSITION RAMP (G3)	WIDTH OF LEVEL LANDING (4'-0" MIN.)	CORNER RADIUS	LEFT SIDE TRANSITION					RIGHT SIDE TRANSITION				
	STATION/ ROADWAY	OFFSET												CURB CURVE LENGTH	CURB STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	CURB CURVE LENGTH	CURB STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
	4+32.30 SUMNER AVE	47.17' LT																					
	4+91.43 SUMNER AVE	46.93' LT																					
	13+64.80 SUMNER AVE	47.23' RT																					
	13+94.39 SUMNER AVE	47.19' RT																					
	16+55.04 SUMNER AVE	46.97' RT																					
	27+80.38 SUMNER AVE	47.02' LT																					
	30+60.96 SUMNER AVE	47.16' LT																					
	30+90.23 SUMNER AVE	46.96' LT																					



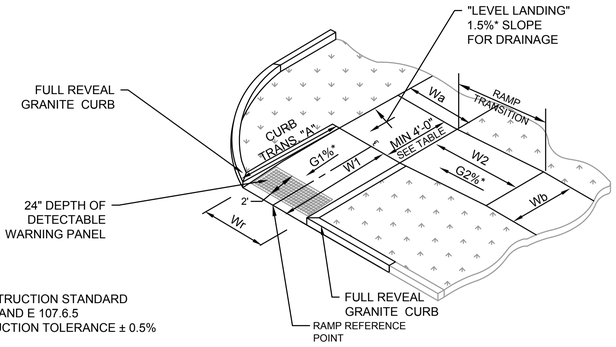
NOTES:

- SEE CONSTRUCTION STANDARD E 107.6.4 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

TYPE B WHEELCHAIR RAMP
SINGLE STREET CROSSING SERVING
TWO SIDEWALK DIRECTIONS WITH BUFFER STRIP

N.T.S.

WCR#	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (Wa)	WIDTH OF SIDEWALK (Wb)	WIDTH OF RAMP ENTRANCE (Wr = 5'-0" MIN.)	LENGTH OF RAMP (W1)	GRADE OF RAMP (G)	LENGTH OF RAMP TRANSITION (W1)	GRADE OF RAMP TRANSITION (G1)	LENGTH OF RAMP TRANSITION (W2)	GRADE OF RAMP TRANSITION (G2)	CORNER RADIUS	LEFT SIDE TRANSITION					RIGHT SIDE TRANSITION				
	STATION/ ROADWAY	OFFSET											CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	RAMP LENGTH	CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	RAMP LENGTH
	8+97.52 SUMNER AVE	47.34' LT																					
	11+60.46 SUMNER AVE	46.78' LT																					
	12+19.27 SUMNER AVE	46.52' LT																					
	14+74.94 SUMNER AVE	46.86' LT																					
	15+05.01 SUMNER AVE	46.73' LT																					
	413+10.92 DICKINSON ST	27.12' LT																					
	504+25.59 ORMOND ST	14.39' LT																					



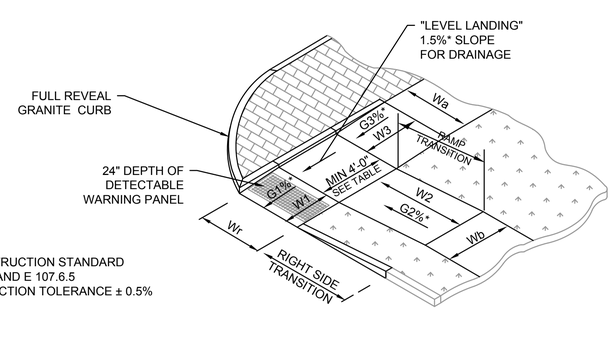
NOTES:

- SEE CONSTRUCTION STANDARD E 107.3.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

TYPE C WHEELCHAIR RAMP

N.T.S.

WCR#	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (Wa)	WIDTH OF SIDEWALK (Wb)	WIDTH OF RAMP ENTRANCE (Wr = 5'-0" MIN.)	GRADE OF RAMP (G1)	WIDTH OF RAMP TRANSITION (W1)	GRADE OF RAMP TRANSITION (G2)	WIDTH OF RAMP TRANSITION (W2)	GRADE OF RAMP TRANSITION (G2)	CORNER RADIUS	LENGTH OF CURB TRANSITION "A"
	STATION/ ROADWAY	OFFSET										
	XXX+XX.XX	XXX.XX RT			X'-X"	X'-X"	X'-X"	X'-X"	X'-X"		XX"	



NOTES:

- SEE CONSTRUCTION STANDARD E 107.3.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

TYPE D WHEELCHAIR RAMP

N.T.S.

WCR#	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (Wa)	WIDTH OF SIDEWALK (Wb)	WIDTH OF RAMP ENTRANCE (Wr = 5'-0" MIN.)	GRADE OF RAMP (G1)	WIDTH OF RAMP TRANSITION (W1)	GRADE OF RAMP TRANSITION (G2)	WIDTH OF RAMP TRANSITION (W2)	GRADE OF RAMP TRANSITION (G3)	WIDTH OF RAMP TRANSITION (W3)	CORNER RADIUS	LEFT SIDE TRANSITION					RIGHT SIDE TRANSITION				
	STATION/ ROADWAY	OFFSET											CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	RAMP LENGTH	CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	RAMP LENGTH
M2	XXX+XX.XX	XXX.XX RT	X'-X"			X'-X"	X'-X"	X'-X"				XX'	X'-X"	X'-X"	X"	X.X%	X"	X'-X"	X'-X"	X'-X"	X"	X.X%	X"	X'-X"

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LMAN: X
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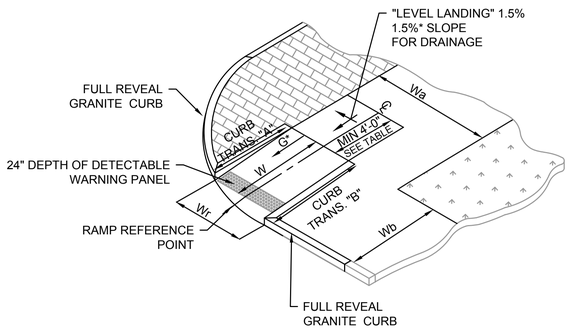
20121457A70_WCR_DET01.DWG 3-Apr-2018

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	191	XXX
PROJECT FILE NO.	608717		

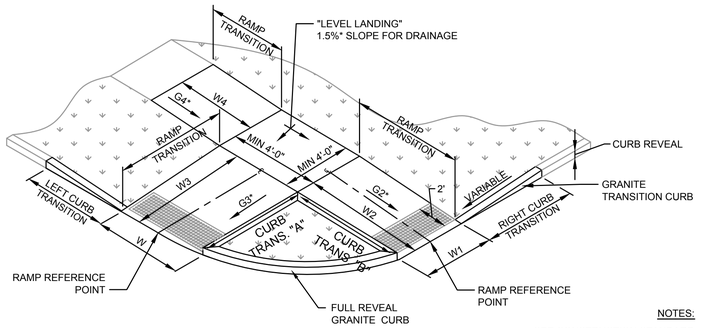
WHEELCHAIR/DRIVEWAY RAMP DETAILS

RAMP DIMENSIONS/GUTTER SLOPES, AND CURB TRANSITION LENGTHS WILL BE PROVIDED AT 75% DESIGN



TYPE E WHEELCHAIR RAMP
N.T.S.

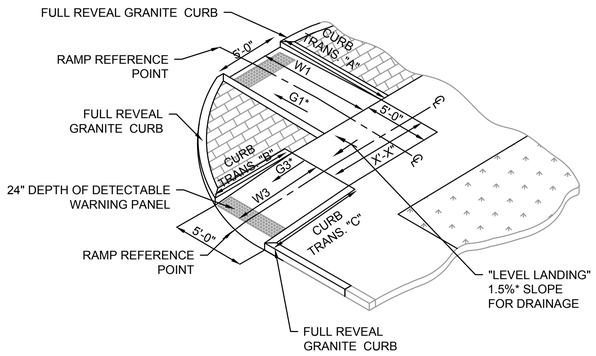
WCR#	RAMP REFERENCE POINT		WIDTH OF RAMP ENTRANCE (Wr = 5'-0" MIN.)	LENGTH OF RAMP (W)	GRADE OF RAMP (G)	DEPTH OF LEVEL LANDING (4'-0" MIN.)	CURB TRANSITION "A" LENGTH (LEFT SIDE)	CURB TRANSITION "B" LENGTH (RIGHT SIDE)	WIDTH OF SIDEWALK (Wa)	WIDTH OF SIDEWALK (Wb)
	STATION/ ROADWAY	OFFSET								
K1	X+XX.XX XXX.XX	XX.XX' LT	XX'-X"	X'-X"	X.XX%	X'-X"	X'-X	X'-X"		
K2	X+XX.XX XXX.XX	XX.XX' LT	XX'-X"	X'-X"	X.XX%	X'-X"	X'-X	X'-X"		



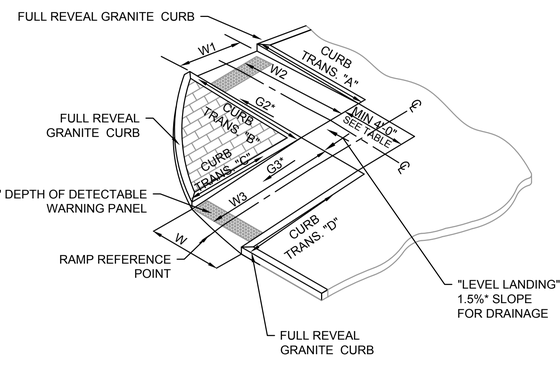
NOTES:
- SEE CONSTRUCTION STANDARD E 107.3.0 AND E 107.6.5

* CONSTRUCTION TOLERANCE ± 0.5%

TYPE F WHEELCHAIR RAMP
N.T.S.

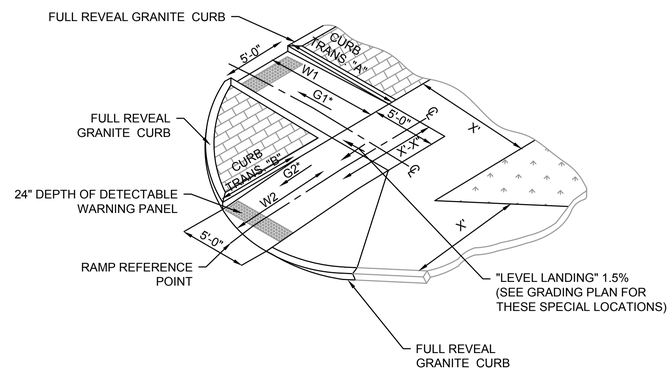


TYPE F2 WHEELCHAIR RAMP
N.T.S.

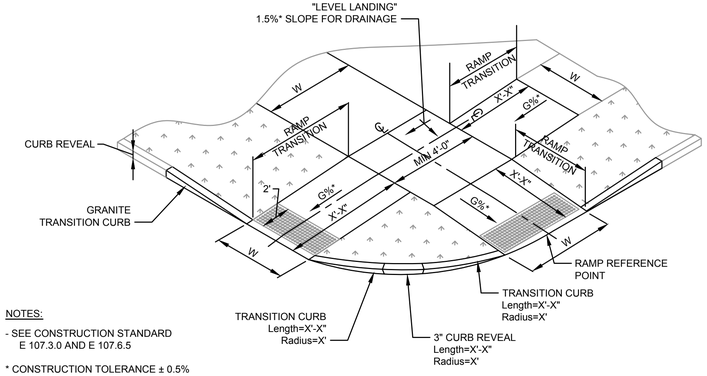


TYPE F3 WHEELCHAIR RAMP
N.T.S.

WCR#	RAMP REFERENCE POINT		WIDTH OF RAMP ENTRANCE (W = 5'-0" MIN.)	WIDTH OF RAMP ENTRANCE (W1 = 5'-0" MIN.)	LENGTH OF RAMP (W2)	GRADE OF RAMP (G2)	LENGTH OF RAMP (W3)	GRADE OF RAMP (G3)	DEPTH OF LEVEL LANDING (4'-0" MIN.)	CURB TRANSITION "A" LENGTH	CURB TRANSITION "B" LENGTH	CURB TRANSITION "C" LENGTH	CURB TRANSITION "D" LENGTH
	STATION/ ROADWAY	OFFSET											
K1	X+XX.XX XXX.XX	XX.XX' LT	X'-X"		X'-X"	X.XX%			X'-X"	X'-X	X'-X"		
K2	X+XX.XX XXX.XX	XX.XX' LT	X'-X"		X'-X"	X.XX%			X'-X"	X'-X	X'-X"		



TYPE F4 WHEELCHAIR RAMP
N.T.S.



NOTES:
- SEE CONSTRUCTION STANDARD E 107.3.0 AND E 107.6.5

* CONSTRUCTION TOLERANCE ± 0.5%

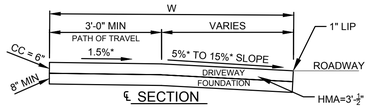
TYPE F5 WHEELCHAIR RAMP
N.T.S.

WHEELCHAIR/DRIVEWAY RAMP DETAILS

RAMP DIMENSIONS/GUTTER SLOPES, AND CURB TRANSITION LENGTHS WILL BE PROVIDED AT 75% DESIGN

LEGEND:

W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
HMA = HOT MIX ASPHALT
G = WIDTH OF GRASS BUFFER



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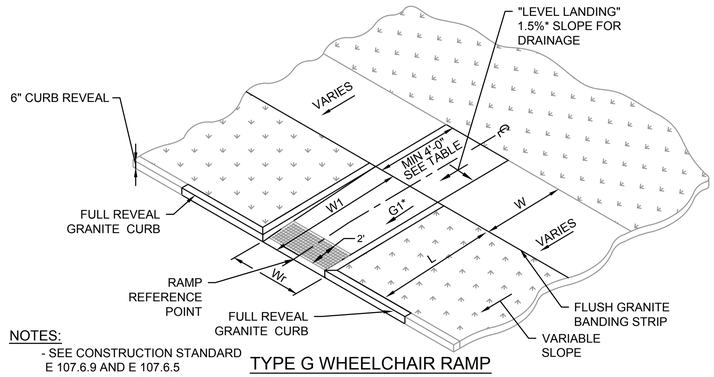
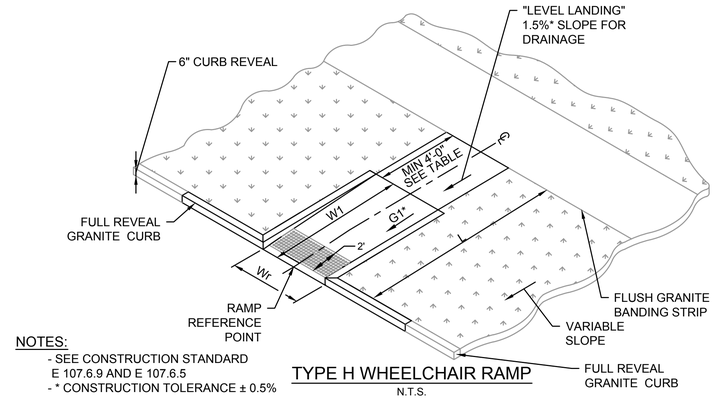


NOTES:
- SEE CONSTRUCTION STANDARD E 107.6.9 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

TYPE G WHEELCHAIR RAMP

N.T.S.

WCR #	RAMP REFERENCE POINT		WIDTH OF RAMP ENTRANCE (Wr = 5'-0" MIN.)	WIDTH OF SIDEWALK (W)	WIDTH OF LANDSCAPE STRIP (L)	LENGTH OF LEVEL LANDING (4'-0" MIN.)	LENGTH OF RAMP (W1)	GRADE OF RAMP (G1)
	STATION/ ROADWAY	OFFSET						
H1	X+XX.XX XXXXX	XX.XX' RT		XX'-XX"		X'-XX"	X'-XX"	X.XX%
H1	X+XX.XX XXXXX	XX.XX' RT		XX'-XX"		X'-XX"	X'-XX"	X.XX%

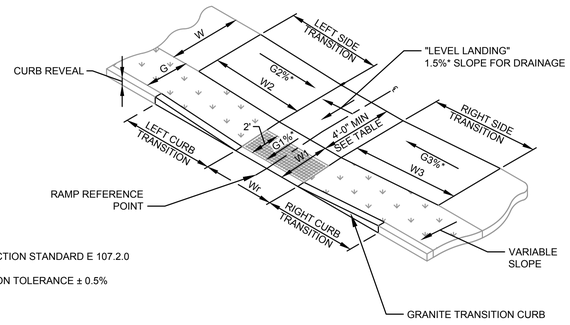


NOTES:
- SEE CONSTRUCTION STANDARD E 107.6.9 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

TYPE H WHEELCHAIR RAMP

N.T.S.

WCR #	RAMP REFERENCE POINT		WIDTH OF RAMP ENTRANCE (Wr = 5'-0" MIN.)	WIDTH OF SIDEWALK (W)	WIDTH OF LANDSCAPE STRIP (L)	LENGTH OF LEVEL LANDING (4'-0" MIN.)	LENGTH OF RAMP (W1)	GRADE OF RAMP (G1)
	STATION/ ROADWAY	OFFSET						
H1	X+XX.XX XXXXX	XX.XX' RT		XX'-XX"	X'-XX"	X'-XX"	X'-XX"	X.XX%
H1	X+XX.XX XXXXX	XX.XX' RT		XX'-XX"	X'-XX"	X'-XX"	X'-XX"	X.XX%

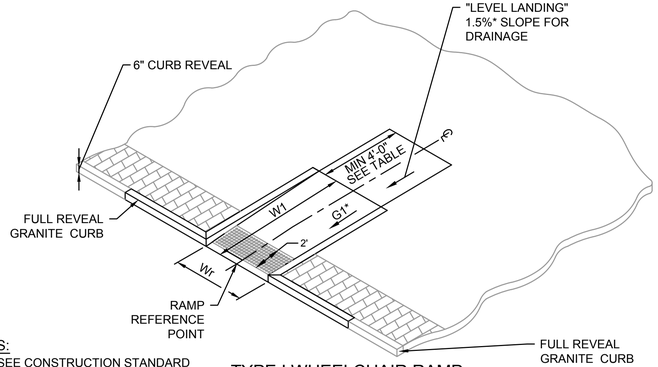


NOTES:
- SEE CONSTRUCTION STANDARD E 107.2.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

TYPE J WHEELCHAIR RAMP
ON ROADWAY TANGENT WITH BUFFER STRIP

N.T.S.

WCR#	RAMP REFERENCE POINT		WIDTH OF RAMP ENTRANCE (Wr = 5'-0" MIN.)	WIDTH OF BUFFER STRIP (G)	LENGTH OF RAMP (W1)	GRADE OF RAMP (G1)	LENGTH OF SIDEWALK (W = 4'0" MIN.)	WIDTH OF RAMP TRANSITION (W2)	GRADE OF RAMP TRANSITION (G2)	WIDTH OF RAMP TRANSITION (W3)	GRADE OF RAMP TRANSITION (G3)	LEFT SIDE TRANSITION				RIGHT SIDE TRANSITION			
	STATION/ ROADWAY	OFFSET										CURB LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL	RAMP LENGTH	CURB LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL	RAMP LENGTH
KX	XXX+XX.XX XXXXXXXXX	XXX.XX RT	X'-X"	X'-X"	X'-X"		X'-X"					X'-X"	X.X%	X"	X'-X"	X'-X"	X.X%	X"	X'-X"



NOTES:
- SEE CONSTRUCTION STANDARD E 107.6.9 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

TYPE I WHEELCHAIR RAMP

N.T.S.

WCR #	RAMP REFERENCE POINT		WIDTH OF RAMP ENTRANCE (Wr = 5'-0" MIN.)	LENGTH OF LEVEL LANDING (4'-0" MIN.)	LENGTH OF RAMP (W1)	GRADE OF RAMP (G1)
	STATION/ ROADWAY	OFFSET				
H1	X+XX.XX XXXXX	XX.XX' RT	XX'-XX"	X'-XX"	X'-XX"	X.XX%
H1	X+XX.XX XXXXX	XX.XX' RT	XX'-XX"	X'-XX"	X'-XX"	X.XX%

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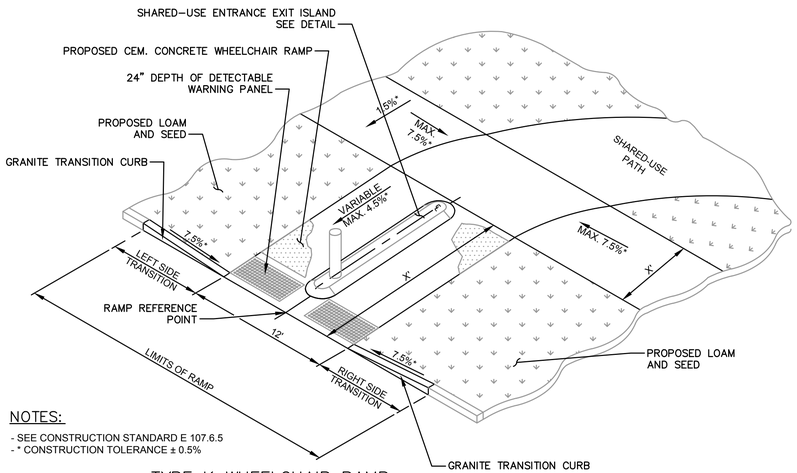
20121457A70_WCR_DET01.DWG 3-Apr-2018

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	193	XXX
PROJECT FILE NO.	608717		

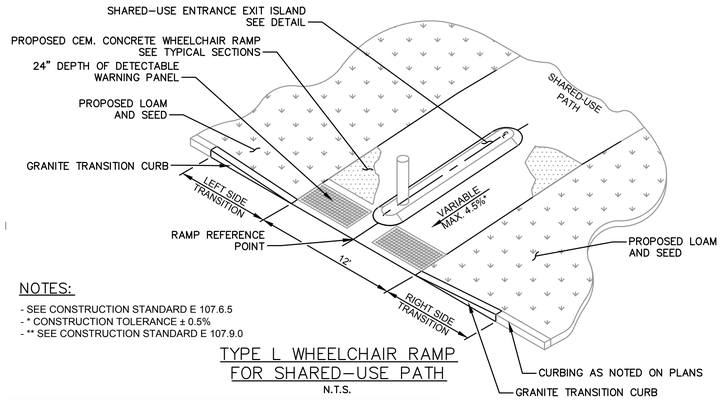
WHEELCHAIR/DRIVEWAY RAMP DETAILS

RAMP DIMENSIONS/GUTTER SLOPES, AND CURB TRANSITION LENGTHS WILL BE PROVIDED AT 75% DESIGN



NOTES:
- SEE CONSTRUCTION STANDARD E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

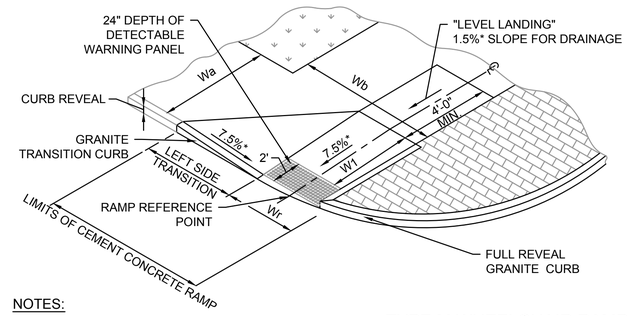
TYPE K WHEELCHAIR RAMP
FOR SHARED–USE PATH
N.T.S.



NOTES:
- SEE CONSTRUCTION STANDARD E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%
- ** SEE CONSTRUCTION STANDARD E 107.9.0

TYPE L WHEELCHAIR RAMP
FOR SHARED–USE PATH
N.T.S.

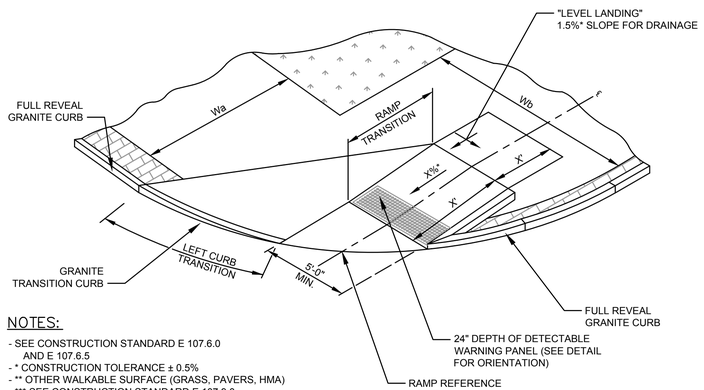
WCR#	RAMP REFERENCE POINT		WIDTH OF RAMP ENTRANCE (5'-0" MIN.)	LEFT SIDE TRANSITION			RIGHT SIDE TRANSITION		
	STATION/ ROADWAY	OFFSET		CURB LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL	CURB LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL
FX	XX+XX.XX XXXXXXX	XX.00 RT	10'-0"	X'-X"	X.X%	6"	6'-6"	-0.5%	6"
FX	XX+XX.XX XXXXXXX	XX.00 RT	10'-0"	X'-X"	X.X%	6"	6'-6"	-0.5%	6"
FX	XX+XX.XX XXXXXXX	XX.00 RT	10'-0"	X'-X"	X.X%	6"	6'-6"	-0.5%	6"



NOTES:
- SEE CONSTRUCTION STANDARD E 107.3.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%
- ** SIDEWALK ENDS
- *** SEE CONSTRUCTION STANDARD E 107.9.0

TYPE M WHEELCHAIR RAMP
PARALLEL TO ROADWAY WITH LANDSCAPE
ON SINGLE SIDE (W = 12.4' AND GREATER)
N.T.S.

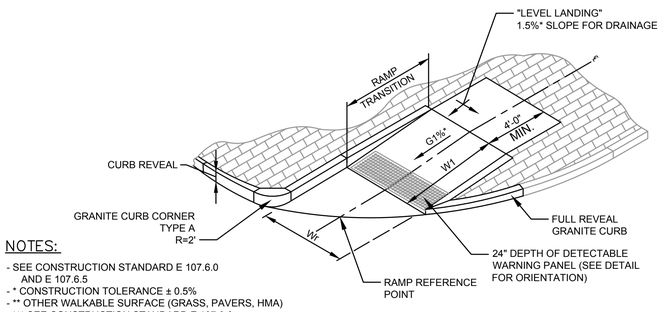
WCR #	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (Wa)	WIDTH OF SIDEWALK (Wb)	WIDTH OF RAMP ENTRANCE (Wr = 5'-0" MIN.)	LENGTH OF RAMP (W1)	DEPTH OF LEVEL LANDING (4'0" MIN)	LEFT SIDE TRANSITION		
	STATION/ ROADWAY	OFFSET						LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL
C1-1	xx+xx.xx yy ST	27.00 RT	VARIES		5'-0"	7'-6"		N/A	N/A	6"
C1-2	xx+xx.xx yy ST	27.00 LT	16'		5'-0"	8'-4"	4'-0"	N/A	N/A	6"
C1-3	xx+xx.xx yy ST	24.80' RT	15'-6"		5'-0"	8'-0"	5'-6"	6'-6"	-1.50%	6"



NOTES:
- SEE CONSTRUCTION STANDARD E 107.6.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%
- ** OTHER WALKABLE SURFACE (GRASS, PAVERS, HMA)
- *** SEE CONSTRUCTION STANDARD E 107.9.0
- **** PC / PT OUTSIDE RAMP LIMITS

TYPE M2 WHEELCHAIR RAMP
CONTINUOUS DIRECTION TRAVEL WITH BUFFER STRIP
N.T.S.

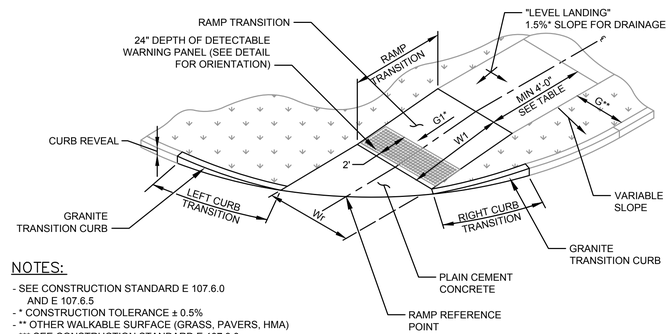
WCR#	RAMP REFERENCE POINT		WIDTH OF RAMP ENTRANCE (Wr = 5'-0" MIN.)	LENGTH OF RAMP TRANSITION (W1)	LENGTH OF LEVEL LANDING (4'0" MIN.)	GRADE OF RAMP TRANSITION (G1)	CORNER RADIUS
	STATION/ ROADWAY	OFFSET					
JX	XXX+XX.XX XXXXXXXXX	XXX.XX RT	X'-X"	X'-X"			XX'



NOTES:
- SEE CONSTRUCTION STANDARD E 107.6.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%
- ** OTHER WALKABLE SURFACE (GRASS, PAVERS, HMA)
- *** SEE CONSTRUCTION STANDARD E 107.9.0
- **** PC / PT OUTSIDE RAMP LIMITS

TYPE N WHEELCHAIR RAMP
CONTINUOUS DIRECTION TRAVEL WITH BUFFER STRIP
N.T.S.

WCR#	RAMP REFERENCE POINT		WIDTH OF RAMP ENTRANCE (Wr = 5'-0" MIN.)	LENGTH OF RAMP TRANSITION (W1)	GRADE OF RAMP TRANSITION (G1)	WIDTH OF LEVEL LANDING (4'-0" MIN.)	CORNER RADIUS	WIDTH OF BUFFER (G)	LEFT SIDE CURB TRANSITION					RIGHT SIDE CURB TRANSITION				
	STATION/ ROADWAY	OFFSET							CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	CURVE LENGTH	STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL
JX	XXX+XX.XX yy STREET	XXX.XX RT	X'-X"			X'-X"	XX'		X'-X"	X'-X"	X"	X.X%	X"	X'-X"	X'-X"	X"	X.X%	X"



NOTES:
- SEE CONSTRUCTION STANDARD E 107.6.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%
- ** OTHER WALKABLE SURFACE (GRASS, PAVERS, HMA)
- *** SEE CONSTRUCTION STANDARD E 107.9.0
- **** PC / PT OUTSIDE RAMP LIMITS

TYPE O WHEELCHAIR RAMP
CONTINUOUS DIRECTION TRAVEL WITH BUFFER STRIP
N.T.S.

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UCS: X MS VIEW: X LMAN: X STB: X

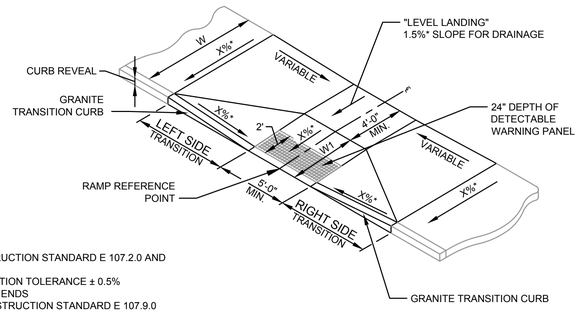
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	194	XXX
PROJECT FILE NO.	608717		

WHEELCHAIR/DRIVEWAY RAMP DETAILS

20121457A70_WCR_DET01.DWG 3-Apr-2018

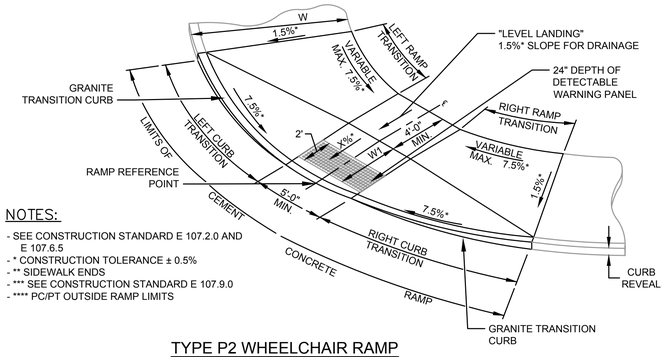
RAMP DIMENSIONS/GUTTER SLOPES, AND CURB TRANSITION LENGTHS WILL BE PROVIDED AT 75% DESIGN



NOTES:

- SEE CONSTRUCTION STANDARD E 107.2.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%
- ** SIDEWALK ENDS
- *** SEE CONSTRUCTION STANDARD E 107.9.0

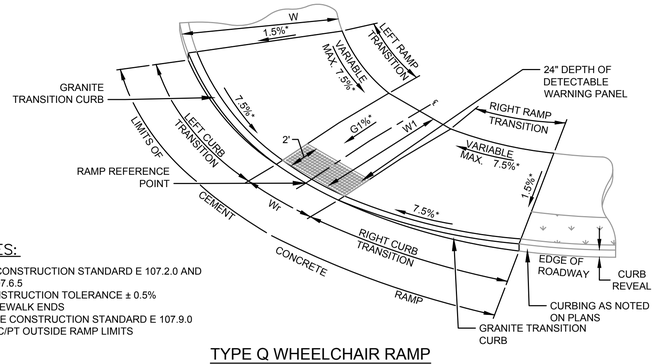
TYPE P WHEELCHAIR RAMP
ON ROADWAY TANGENT (W = 6.5' TO 12.4')
N.T.S.



NOTES:

- SEE CONSTRUCTION STANDARD E 107.2.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%
- ** SIDEWALK ENDS
- *** SEE CONSTRUCTION STANDARD E 107.9.0
- **** PC/PT OUTSIDE RAMP LIMITS

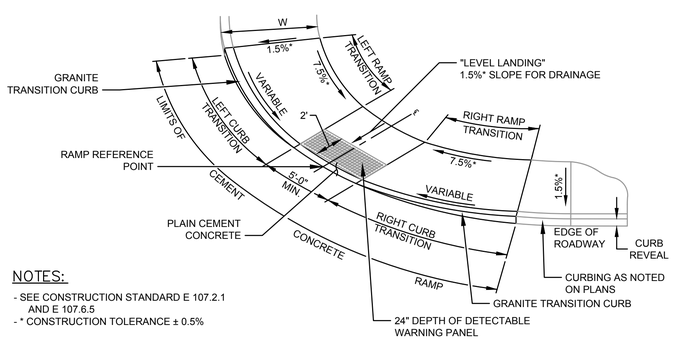
TYPE P2 WHEELCHAIR RAMP
ON CORNER RADIUS (W = 6.5' TO 12.4')
N.T.S.



NOTES:

- SEE CONSTRUCTION STANDARD E 107.2.0 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%
- ** SIDEWALK ENDS
- *** SEE CONSTRUCTION STANDARD E 107.9.0
- **** PC/PT OUTSIDE RAMP LIMITS

TYPE Q WHEELCHAIR RAMP
ON CORNER RADIUS (W = 6.5' TO 12.4')
N.T.S.



NOTES:

- SEE CONSTRUCTION STANDARD E 107.2.1 AND E 107.6.5
- * CONSTRUCTION TOLERANCE ± 0.5%

TYPE Q2 WHEELCHAIR RAMP
ON CORNER RADIUS (W = 7.5')
N.T.S.

WCR#	RAMP REFERENCE POINT		WIDTH OF RAMP ENTRANCE (W = 5'-0" MIN.)	LENGTH OF RAMP (W1)	GRADE OF RAMP (G1)	WIDTH OF SIDEWALK (W)	CORNER RADIUS	LEFT SIDE TRANSITION						RIGHT SIDE TRANSITION					
	STATION/ ROADWAY	OFFSET						CURB CURVE LENGTH	CURB STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	RAMP LENGTH	CURB CURVE LENGTH	CURB STRAIGHT LENGTH	PC/PT CURB REVEAL	ROADWAY GUTTER GRADE	CURB REVEAL	RAMP LENGTH
G1	xx+xx.xx	yy ST																	
G3	xx+xx.xx	yy ST																	

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STB: X
LMAN: X
MS VIEW: X
UCS: X

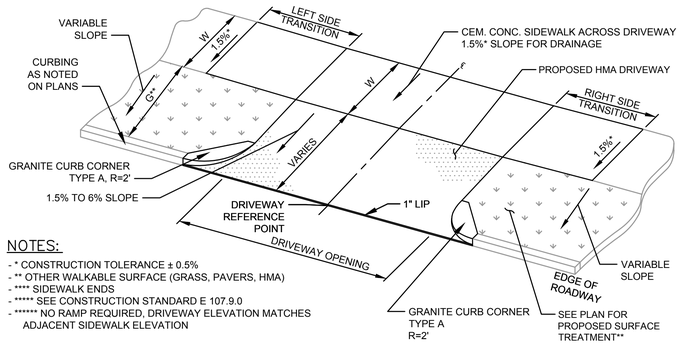
SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	195	XXX
PROJECT FILE NO.	608717		

WHEELCHAIR/DRIVEWAY RAMP DETAILS

20121457A70_WCR_DET01.DWG 3-Apr-2018

RAMP DIMENSIONS/GUTTER SLOPES, AND CURB TRANSITION LENGTHS WILL BE PROVIDED AT 75% DESIGN



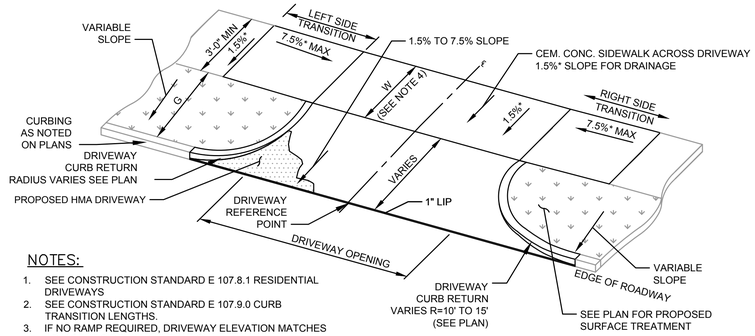
NOTES:

- * CONSTRUCTION TOLERANCE ± 0.5%
- ** OTHER WALKABLE SURFACE (GRASS, PAVERS, HMA)
- **** SIDEWALK ENDS
- ***** SEE CONSTRUCTION STANDARD E 107.9.0
- ****** NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION

SIDEWALK THROUGH DRIVEWAYS WITH A WIDE BUFFER STRIP - TYPE 1

N.T.S.

DR#	DRIVEWAY REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF BUFFER STRIP (G) (MIN. 7'-0")	LEFT SIDE TRANSITION LENGTH	RIGHT SIDE TRANSITION LENGTH
	STATION/ ROADWAY	OFFSET				
5-X	XXX+XX.XX XXXXXXXXXX	XXX.XX RT	X'-X"	X'-X"	X'-X"	X'-X"



NOTES:

1. SEE CONSTRUCTION STANDARD E 107.8.1 RESIDENTIAL DRIVEWAYS
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.
4. PREFERRED TRAVEL PATH WIDTH SHALL MATCH SIDEWALK WIDTH (3'-0" MIN)

* CONSTRUCTION TOLERANCE ± 0.5%

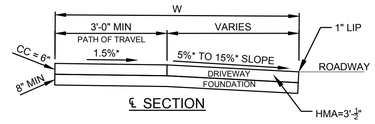
SIDEWALK THROUGH DRIVEWAYS WITH A WIDE BUFFER STRIP - TYPE 2

N.T.S.

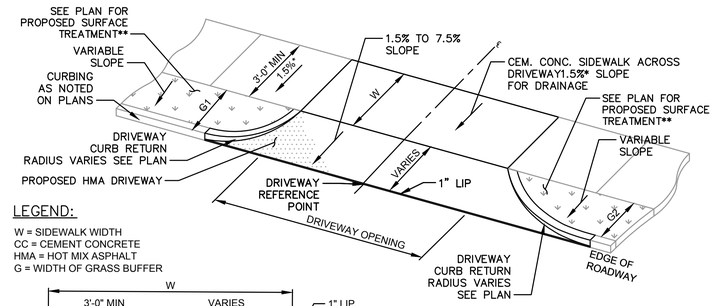
DR#	DRIVEWAY REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF BUFFER STRIP (G) (MIN. 3'-0")	LEFT SIDE TRANSITION LENGTH	RIGHT SIDE TRANSITION LENGTH
	STATION/ ROADWAY	OFFSET				

LEGEND:

W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
HMA = HOT MIX ASPHALT
G = WIDTH OF GRASS BUFFER

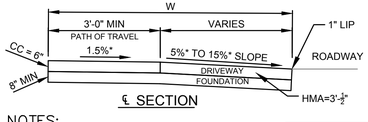


℄ SECTION



LEGEND:

W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
HMA = HOT MIX ASPHALT
G = WIDTH OF GRASS BUFFER



℄ SECTION

SIDEWALK THROUGH DRIVEWAYS TYPE 1

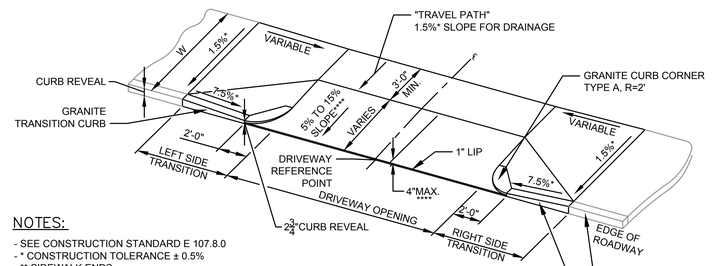
N.T.S.

NOTES:

1. SEE CONSTRUCTION STANDARD E 107.8.1 RESIDENTIAL DRIVEWAYS
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.
4. PREFERRED TRAVEL PATH WIDTH SHALL MATCH SIDEWALK WIDTH (3'-0" MIN)

* CONSTRUCTION TOLERANCE ± 0.5%

DR#	DRIVEWAY REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF BUFFER STRIP (G1)	WIDTH OF BUFFER STRIP (G2)	LEFT SIDE TRANSITION LENGTH	RIGHT SIDE TRANSITION LENGTH
	STATION/ ROADWAY	OFFSET					
		XX.XX LT	X'-X"	X'-X"	X'-X"	X'-X"	X'-X"
		XX.XX LT	X'-X"	X'-X"	X'-X"	X'-X"	X'-X"
		XX.XX LT	X'-X"	X'-X"	X'-X"	X'-X"	X'-X"



NOTES:

- SEE CONSTRUCTION STANDARD E 107.8.0
- * CONSTRUCTION TOLERANCE ± 0.5%
- ** SIDEWALK ENDS
- *** SEE CONSTRUCTION STANDARD E 107.9.0
- **** MAX. 4" HEIGTH OF DR. RAMP FOR WIDTHS OF RAMPS FROM 2-4'

SIDEWALK THROUGH DRIVEWAYS - TYPE 2

N.T.S.

DR#	DRIVEWAY REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF TRAVEL PATH ACROSS OPENING (3'-0" MIN.)	LEFT SIDE TRANSITION			RIGHT SIDE TRANSITION		
	STATION/ ROADWAY	OFFSET			LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL	LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL

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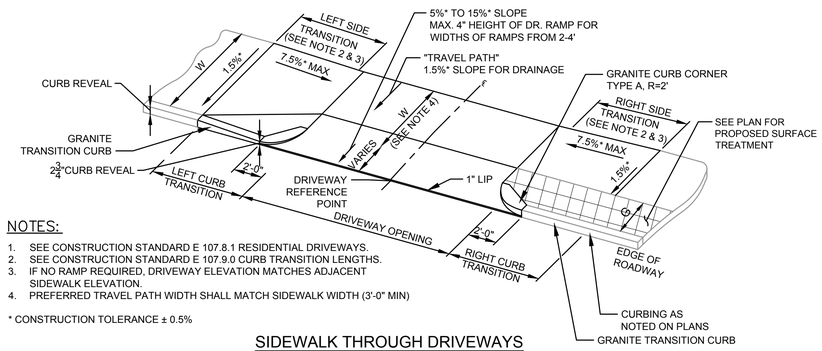
STB: X
LMAN: X
MS VIEW: X
UCS: X

SPRINGFIELD
"THE X"
INTERSECTION IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XX-XXXXX(XXX)X	196	XXX
PROJECT FILE NO.	608717		

WHEELCHAIR/DRIVEWAY RAMP DETAILS

RAMP DIMENSIONS/GUTTER SLOPES, AND CURB TRANSITION LENGTHS WILL BE PROVIDED AT 75% DESIGN



NOTES:

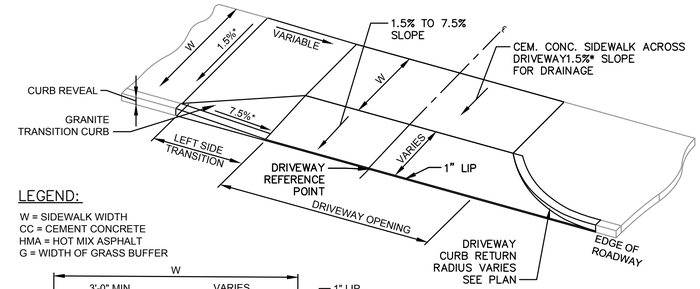
1. SEE CONSTRUCTION STANDARD E 107.8.1 RESIDENTIAL DRIVEWAYS.
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.
4. PREFERRED TRAVEL PATH WIDTH SHALL MATCH SIDEWALK WIDTH (3'-0" MIN)

* CONSTRUCTION TOLERANCE ± 0.5%

SIDEWALK THROUGH DRIVEWAYS WITH BUFFER STRIP - TYPE 1

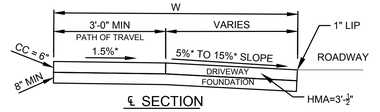
N.T.S.

DR#	DR REFERENCE POINT		LEFT WIDTH OF SIDEWALK (W)	RIGHT WIDTH OF SIDEWALK (W)	WIDTH OF BUFFER STRIP (G)	WIDTH OF TRAVEL PATH ACROSS OPENING (3'-0" MIN.)	LEFT SIDE TRANSITION				RIGHT SIDE TRANSITION			
	STATION/ ROADWAY	OFFSET					CURB LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL	RAMP LENGTH	CURB LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL	RAMP LENGTH



LEGEND:

W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
HMA = HOT MIX ASPHALT
G = WIDTH OF GRASS BUFFER



℄ SECTION

SIDEWALK THROUGH DRIVEWAYS TYPE 2

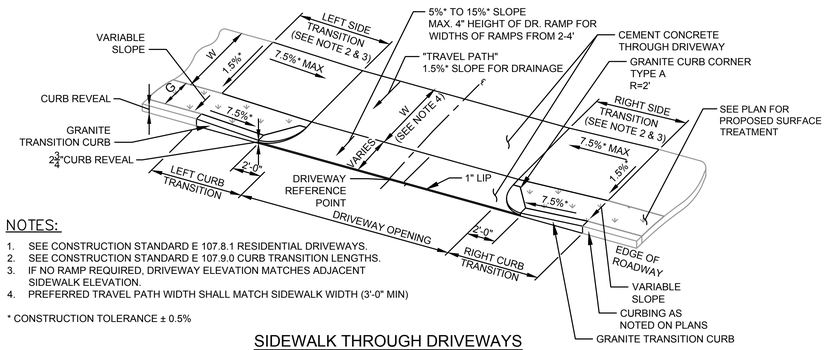
N.T.S.

NOTES:

1. SEE CONSTRUCTION STANDARD E 107.8.1 RESIDENTIAL DRIVEWAYS
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.
4. PREFERRED TRAVEL PATH WIDTH SHALL MATCH SIDEWALK WIDTH (3'-0" MIN)

* CONSTRUCTION TOLERANCE ± 0.5%

DR#	DRIVEWAY REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF BUFFER STRIP (G1)	WIDTH OF BUFFER STRIP (G2)	LEFT SIDE TRANSITION LENGTH	RIGHT SIDE TRANSITION LENGTH
	STATION/ ROADWAY	OFFSET					
		XX.XX LT	X'-X"	X'-X"	X'-X"	X'-X"	X'-X"
		XX.XX LT	X'-X"	X'-X"	X'-X"	X'-X"	X'-X"
		XX.XX LT	X'-X"	X'-X"	X'-X"	X'-X"	X'-X"



NOTES:

1. SEE CONSTRUCTION STANDARD E 107.8.1 RESIDENTIAL DRIVEWAYS.
2. SEE CONSTRUCTION STANDARD E 107.9.0 CURB TRANSITION LENGTHS.
3. IF NO RAMP REQUIRED, DRIVEWAY ELEVATION MATCHES ADJACENT SIDEWALK ELEVATION.
4. PREFERRED TRAVEL PATH WIDTH SHALL MATCH SIDEWALK WIDTH (3'-0" MIN)

* CONSTRUCTION TOLERANCE ± 0.5%

SIDEWALK THROUGH DRIVEWAYS WITH BUFFER STRIP - TYPE 3

N.T.S.

DR#	DR REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF BUFFER STRIP (G)	WIDTH OF TRAVEL PATH ACROSS OPENING (3'-0" MIN.)	LEFT SIDE TRANSITION				RIGHT SIDE TRANSITION			
	STATION/ ROADWAY	OFFSET				CURB LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL	RAMP LENGTH	CURB LENGTH	ROADWAY GUTTER GRADE	CURB REVEAL	RAMP LENGTH