SP 5620-24 EQUATIONS

93+08.99 BK = 93+11.90 AH 379+40.13 BK = 387+21.71 AH 431+56.04 BK = 431+78.68 AH 448+04.55 BK = 448+02.98 AH 472+17.07 BK = 472+18.72 AH 504+65.26 BK = 504+55.54 AH 530+67.84 BK = 530+69.27 AH 561+91.55 BK = 561+93.33 AH 579+57.65 BK = 579+58.94 AH 598+09.53 BK = 598+04.92 AH 610+86.23 BK = 610+90.92 AH 635+85.49 BK = 635+90.95 AH 686+90.08 BK = 686+94.19 AH 732+94.11 BK = 732+95.57 AH 762+43.68 BK = 762+46.33 AH 796+24.39 BK = 796+10.19 AH

SP 5621-23 EQUATIONS

847+52.60 BK = 848+29.64 AH 862+12.96 BK = 861+91.26 AH 873+74.95 BK = 873+69.10 AH 881+34.56 BK = 881+51.82 AH 912+97.86 BK = 912+94.70 AH 951+83.65 BK = 963+91.30 AH 973+93.57 BK = 973+98.06 AH 990+01.20 BK = 990+00.88 AH 1015+92.92 BK = 1015+95.07 AH 1065+27.02 BK = 1065+27.65 AH 1097+11.74 BK = 1096+24.38 AH 1177+42.73 BK = 1177+44.00 AH 1243+95.51 BK = 1243+97.84 AH 1301+41.57 BK = 1301+47.68 AH

TH 78 REE PTS TO STATION

10 KEF. P13.	TO STATION
R.P. 23 = 91+73	R.P. 36 = 779+61
R.P. 24 = 144+27	$R_{\bullet}P_{\bullet}$ 37 = 832+10
R.P. 25 = 196+79	R.P.38 = 885 + 57
R.P. 26 = 249+96	$R_{\bullet}P_{\bullet} 39 = 938 + 83$
$R_{\bullet}P_{\bullet}$ 27 = 308+20	R.P. 40 = 1004 + 26
R.P. 28 = 357+52	R.P. 41 = 1056+53
R.P. 29 = 411+56	R.P.42 = 1108 + 73
$R_{\bullet}P_{\bullet}$ 30 = 463+79	R.P.43 = 1161+08
R.P. 31 = 516+57	R.P. 44 = 1214+03
R.P. 32 = 569+66	R.P. 45 = 1266+95
R.P. 33 = 621+98	R.P. 46 = 1319+99
R.P. 34 = 674+60	R.P. 47 = 1372+81
$R_{\bullet}P_{\bullet}$ 35 = 726+90	

SCALES

10000'

INDEX MAP

GENERAL LAYOUT 500′

PLAN REVISIONS DATE

MINNESOTA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN FOR GRADING, BITUMINOUS MILLING & SURFACING, ADA IMPROVEMENTS, RETAINING WALLS, AND END POSTS FOR BRIDGES NO. 9406 & NO. 56007

LOCATED ON TH 78 FROM TH 210 IN BATTLE LAKE TO TH 10 IN PERHAM

STATE PROJ. NO. 5620-24 (TH. 78) BRIDGES-LENGTH......FEET.....MILES EXCEPTIONS-LENGTH FEET MILES
NET LENGTH 77626.05 FEET 14.702 MILES
REF. POINT 21+00.543 TO REF. POINT 36+00.379

STATE PROJ. NO. 5621-23 (TH 78) GROSS LENGTH. 57875.57 FEET. 10.961 MILES BRIDGES-LENGTH 454.00 FEET ... 0.086 MILES EXCEPTIONS-LENGTH..... FEET.....MILES NET LENGTH 57875,57 FEET 10,961 MILES REF. POINT 36+00,379 TO REF. POINT 47+00,265

END S.P. 5621-23 R38W Reconstruction projects must include 20-scale sidewalk and curb ramp detail sheets with sidewalk profiles.

STA. 1381+41.64 STA. 999+16.57 STA. 997+73.01

BEGIN S.P. 5621-23 END S.P. 5620-24 T.H. 78 STA. 799+29.50

BEGIN S.P. 5620-24 T.H. 78 STA. 15+01.90

DESIGN DESIGNATION

2009 = 1,076,000

T (Heavy Commercial)

ADT (Current Year) 2011 = 5600 Design Speed 60 MPH ADT (Future Year) 2031 = ...7300. Based on STOPPING Sight Distance DHV (Design Hr. Vol.) = .875 Height of eye 3.5' Height of object 2.0' = 40/60 % Design Speed not achieved at: Locally Restricted D (Directional Distr.)

= 5.3 % STA. TO STA. MPH STA. TO STA. MPH ...

- PROJECT LOCATION COUNTY: OTTER TAIL DISTRICT :4....

STATE PROJ. NO. 5621-23 (TH 78 = 181)

GOVERNING SPECIFICATIONS

THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION", SHALL GOVERN.

FED. PROJ. NO. STPM 5614(012)

INDEX

SHEET NO.	DESCRIPTION
1 2-6 7-9 10-13 14-19	TITLE SHEET GENERAL LAYOUT ESTIMATED QUANTITIES TYPICAL SECTIONS QUANTITY TABLEATIONS
20-22 23-29A 30-42C 43-44 45	UTILITY TABULATIONS DESIGN DETAILS STANDARD PLAN SHEETS ALIGNMENT TABULATION SWPPP SHEET
46-50 51-55 56-64 65-66	EXISTING TOPOGRAPHY PLAN SHEETS REMOVAL PLAN SHEETS CONSTRUCTION PLAN SHEETS PROFILES
67-73 74 75-77 S1-S14 T1-T3 SW1-SW7 XS1-XS26	SIDEWALK DETAIL PLAN SHEETS SIDEWALK PROFILES DRAINAGE PLAN AND PROFILE SHEETS SIGNING & STRIPING SHEETS TRAFFIC CONTROL SHEETS SANITARY SEWER AND WATERMAIN PLAN CROSS SECTION SHEETS

THIS PLAN CONTAINS...131, SHEETS

FOR PLANS AND UTILITIES SYMBOLS SEE TECHNICAL MANUAL CHARGE IDENTIFIER

BRIDGE LENGTH

5621-23 5620-24

STATE PROJ. NO.

S.P. 5620-24 (TH 78 = 180)

SHEET NO. 1 OF 77 SHEETS

		STATEMENT OF ESTIMAT	ED QUANTI	TIES			
SHEET NO.	ITEM NO.	DESCRIPTION	UNITS	TOTAL ESTIMATED QUANTITIES	SP 5620-24	SP 5621-23	100% CITY
15	2360.503	TYPE SP 12.5 WEARING COURSE MIXTURE (3,B) 2.5" THICK	SQ YD	4792	1945	2847	
29A	2411.501	STRUCTURAL CONCRETE (1A43)	CU YD	23	23		
16	2411.501	STRUCTURAL CONCRETE (3A34)	CU YD	3	3		
16	2411.541	REINFORCEMENT BARS	POUND	224	224		
18,27 16,29	2411.602 2411.607	PLUG & ABANDON CATTLE PASS	EACH	1	1		
29A	2411.618	CONCRETE STEPS MODULAR BLOCK RETAINING WALL	CU YD	30	30		
29A	2411.618	ANTI-GRAFFITI COATING	SO FT	677 832	677 832		
			Su Fi	832	832		
29A	2451.501	STRUCTURE EXCAVATION CLASS U	CU YD	64 (P)	64		
18	2451.509	AGGREGATE BEDDING (CV)	CU YD	715 (P)	259	456	
	2478.601	ORGANIC ZINC-RICH PAINT SYSTEM (OLD) (2)	LUMP SUM	1	1		
	0501.511						
18 18	2501.511 2501.511	24" RC PIPE CULVERT	LIN FT	706	248	458	
18	2501.511	24" RC PIPE CULVERT CLASS V-JACKED 36" RC PIPE CULVERT	LINFT	110		110	
18	2501.515	24" RC PIPE APRON	LIN FT EACH	130	48	82	
18	2501.569	24" RC SAFETY APRON	EACH	20	6	2 14	
18	2501.569	36" RC SAFETY APRON	EACH	4	2	2	
18	2501.602	PLUG FILL & ABANDON PIPE CULVERT	EACH	1		1	
	2502.521	4" TP PIPE DRAIN (3)	LIN FT	175	175		
18	2503.541	12" RC PIPE SEWER DESIGN 3006	LIN FT	509	509		
18	2503.541	15" RC PIPE SEWER DESIGN 3006	LIN FT	352	352	-	
18	2503.541	18" RC PIPE SEWER DESIGN 3006	LIN FT	224	224		
18	2503.541	24" RC PIPE SEWER DESIGN 3006	LIN FT	328	328		
SW4	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	5			5
18 SW4	2503.602 2503.602	CONNECT TO EXISTING STORM SEWER CONNECT TO EXISTING SANITARY SEWER SERVICE	EACH	4	4		
SW4	2503.602	PLUG & ABANDON PIPE SEWER (4)	EACH EACH	15			15
SW4	2503.602	8" PIPE PLUG	EACH	1			1
SW4	2503.602	8"X4" PVC WYE	EACH	15			15
SW4	2503.603	8" PVC PIPE SEWER	LIN FT	936			936
SW4	2503.603	4" PVC SANITARY SERVICE PIPE	LIN FT	604			604
SW4	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	6			6
SW4	2504.602	CONNECT TO EXISTING WATER SERVICE	EACH	25			25
SW4	2504.602	HYDRANT	EACH	3			3
22 SW4	2504.602 2504.602	ADJUST GATE VALVE 0.75" CORPORATION STOP	EACH	5			5
SW4	2504.602	1.5" CORPORATION STOP	EACH	22			22
SW4	2504.602	6" GATE VALVE AND BOX	EACH EACH	3 3			3
SW4	2504.602	8" GATE VALVE AND BOX	EACH	5			3 5
SW4	2504.602	0.75" CURB STOP & BOX	EACH	22			22
SW4	2504.602	1.5" CURB STOP & BOX	EACH	3			3
SW4 SW4	2504.603 2504.603	3/4" TYPE PE PIPE	LINFT	955			955
SW4	2504.603	1 1/2" TYPE PE PIPE 6" PVC WATERMAIN	LIN FT	133			133
SW4	2504.603	8" PVC WATERMAIN	LIN FT LIN FT	212 1387			212
SW4	2504.608	DUCTILE IRON FITTINGS	POUND	881			1387 881
18	2506.501	CONST DRAINAGE STRUCTURE DESIGN H	LIN FT	52.8	52.8		
18	2506.501	CONST DRAINAGE STRUCTURE DESIGN 48-4020	LIN FT	40.5	40.5		
18	2506.516	CASTING ASSEMBLY	EACH	21	21		
22	2506.522	ADJUST FRAME & RING CASTING	EACH	1		-	1
SW4	2506.602	CONST DRAINAGE STRUCTURE DESIGN SPECIAL	EACH	4			4
18	2511.501	RANDOM RIPRAP CLASS III (5)	CU YD	100	40	60	
16,28	2514.604	SLOPE PAVING SPECIAL	SO YD	5	5		
16	2521.501	4" CONCRETE WALK	SO FT	22992	22002		
16	2521.501	4" CONCRETE WALK SPECIAL	SQ FT	4497	22992 4497		-
16	2521.501	6" CONCRETE WALK	SO FT	4426	4354		72

CONSTRUCTION NOTES:

- (P) DENOTES PLANNED QUANTITY.

- SEE AGREEMENT *03276 FOR LUMP SUM AGREEMENT.
 PAINT EXISTING ORNAMENTAL METAL RAILING ON RETAINING WALL (STA 59+75 RT 66+50 RT).
 TO BE PLACED AT BASE OF MODULAR BLOCK RETAINING WALL. SEE STANDARD PLANS FOR PIPE LOCATION. SEE SHEET 29A FOR RETAINING WALL LOCATION.
- (4) INCLUDES FILLING.
- (5) FILTER IS INCIDENTAL.

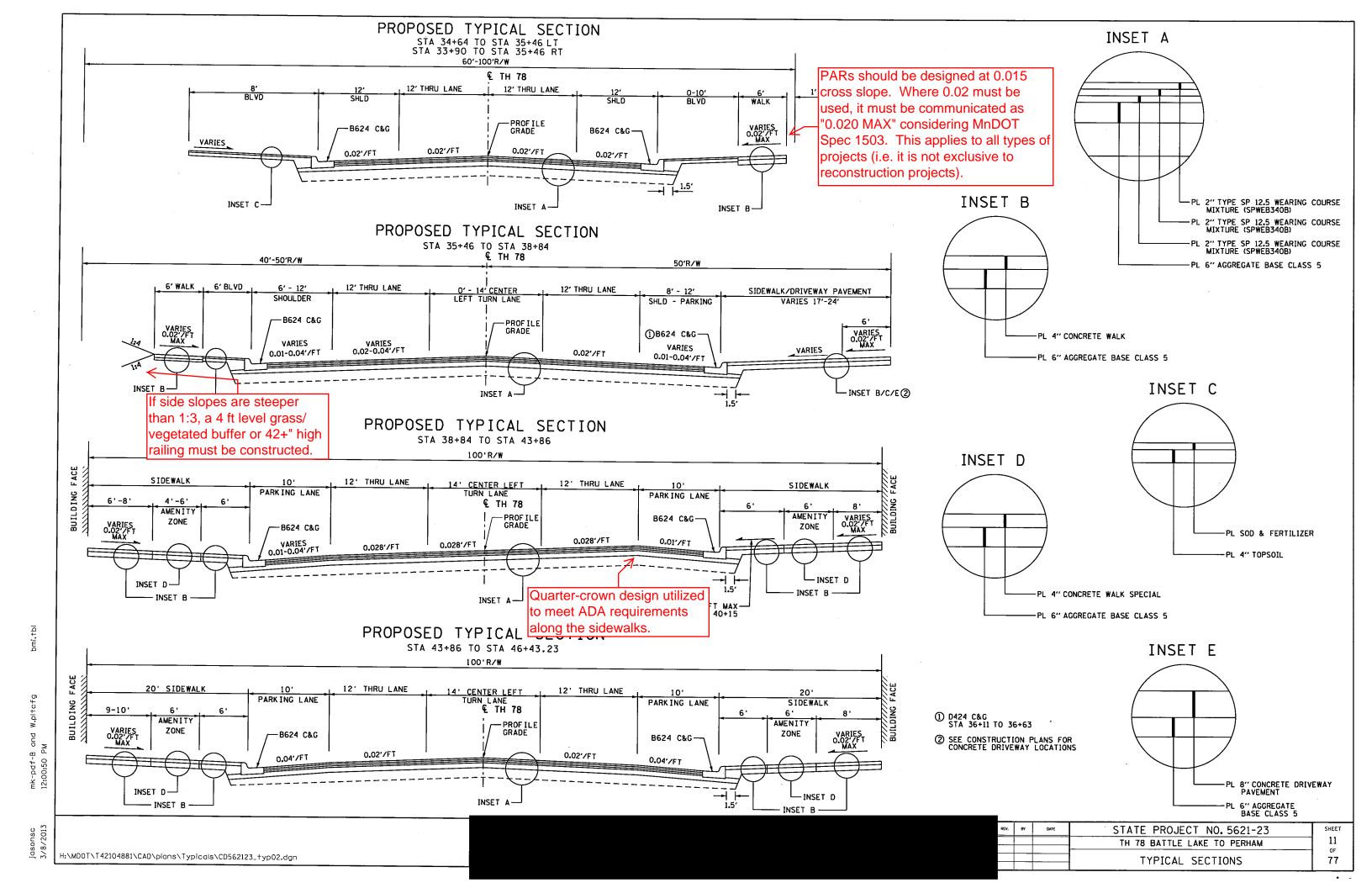
REV.	BY	DATE	STATE PROJECT NO.5621-23	SHEET
			TH 78 BATTLE LAKE TO PERHAM	8 or
			ESTIMATED QUANTITIES	77
			LSTIMATED QUANTITIES	

This particular project includes a mill and inlay through part of town. The "Concrete Walk" and "Concrete Curb & Gutter" pay items are used in the mill and inlay SHEET NO. ITEM NO. segment. Traditional pay items (4" or 6" Concrete Walk and Concrete Curb & Gutter Design xxxx) are used for reconstruction projects. 2521.618 CONCRETE WALK 16 16 2531.501 CONCRETE CURB & GUTTER DESIGN B624 LIN FT 2639 2614 25 16 CONCRETE CURB & GUTTER DESIGN D424 2531.501 LIN FT 52 52 16 2531.502 CONCRETE CURB DESIGN V6 LIN FT 26 26 16 2531.507 8" CONCRETE DRIVEWAY PAVEMENT 568 SQ YD 568 16 2531,603 CONCRETE CURB & GUTTER LINFT 175 175 16 2531.618 TRUNCATED DOMES SO FT 458 438 20 17 2540.602 MAIL BOX SUPPORT EACH 225 159 66 16 2540.603 METAL RAILING LIN FT 86 86 14 2554.501 TRAFFIC BARRIER DESIGN SPECIAL LIN FT 200 200 TRAFFIC BARRIER DESIGN B8338 14 2554.501 LIN FT 675 675 18 2554.509 GUIDE POST TYPE B EACH 26 18 END TREATMENT-ENERGY ABSORBING TERMINAL 14 2554.523 EACH 8 2557.603 INSTALL WOVEN WIRE FENCE LIN FT 320 320 16,28 2557.603 ORNAMENTAL IRON FENCE LIN FT 154 154 2563.601 TRAFFIC CONTROL LUMP SUM 0.59 0.37 0.04 TEMPORARY PEDESTRIAN ACCESS CONTROL 2563.601 LUMP SUM 2563.601 DETOUR SIGNING LUMP SUM 2563.602 PORTABLE CHANGEABLE MESSAGE SIGN EACH 4 4 2564.531 SIGN PANELS TYPE C SQ FT 187 162 25 S6 2564.531 SIGN PANELS TYPE D SO FT 90 90 S6 2564.537 INSTALL SIGN TYPE C EACH 3 S6 2564.537 INSTALL SIGN TYPE D EACH 17 TREE GRATE 2571.602 EACH 4 SILT FENCE, TYPE MACHINSite Restoration is used because this 19 2573.502 7059 3026 4033 2573,530 STORM DRAIN INLET PROT 18 13 13 particular project included a mill and CULVERT PROTECTION 18,26,35 2573.602 15 6 9 inlay segment. Traditional turf 2575.501 SEEDING 3.6 1.2 2.4 19 2575.502 SEED MIXTURE 250 establishment items should be used 251 82 169 19 2575.505 SODDING TYPE LAWN MULCH MATERIAL TYPE 1 for reconstruction projects. 819 819 19 2575.511 7.2 4.8 2.4 19 2575.519 DISK ANCHORING 3.6 1.2 2.4 19 2575.523 **EROSION CONTROL BLANKETS CATEGORY 3** SQ YD 356 148 208 19 2575.532 FERTILIZER TYPE 3 POUND 1257 410 847 2575,602 SITE RESTORATION EACH 9 8 2575.604 MULCH MATERIAL TYPE SPECIAL (2) SQ YD 14 14 2580.601 INTERIM PAVEMENT MARKING LUMP SUM 2582.501 PAVEMENT MESSAGE (LT ARROW) POLY PREF-GR IN EACH 14 14 PAVEMENT MESSAGE (RT ARROW) POLY PREF-GR IN 2582.501 EACH 5 1 4 14 2582.501 PAVEMENT MESSAGE (THRU ARROW) POLY PREF-GR IN EACH PAVEMENT MESSAGE (SCHOOL XING) POLY PREF-GR IN 2582.501 EACH 14 2582.501 PAVEMENT MESSAGE (STOP AHEAD) POLY PREF-GR IN EACH PAVEMENT MESSAGE (RR XING) POLY PREF-GR IN 14 2582.501 EACH 14 2582.502 24" STOP LINE WHITE-POLY PREF (GR IN) LIN FT 60 72 4" SOLID LINE WHITE-EPOXY (GROUND IN) 14 2582,502 LIN FT 15530 11515 4015 14 2582.502 8" DOTTED LINE WHITE-EPOXY (GROUND IN) LIN FT 366 153 213 14 2582,502 4" SOLID LINE YELLOW-EPOXY (GROUND IN) LIN FT 29190 21200 7990 14 2582.502 24" SOLID LINE YELLOW-EPOXY (GROUND IN) LIN FT 103 95 14 2582.502 4" BROKEN LINE YELLOW-EPOXY (GROUND IN) LIN FT 24650 14220 10430 14 2582.502 4" DBLE SOLID LINE YELLOW-EPOXY (GR IN) LIN FT 12960 8750 4210 14 2582,503 CROSSWALK MARKING-POLY PREFORM (GR IN) SO FT 1584 1584 2582.603 4" SOLID LINE WHITE-EPOXY (WR) LIN FT 258050 144135 113915

CONSTRUCTION NOTES:

- (P) DENOTES PLANNED QUANTITY.
- (1) SEE AGREEMENT *03276 FOR LUMP SUM AGREEMENT.
- (2) TO BE PLACED IN TREE GRATES (SEE DETAIL ON SHEET 27) AND AT 38+72 LT TO 39+07 LT.

REV.	87	DATE	STATE PROJECT NO. 5621-23	SHEET
			TH 78 BATTLE LAKE TO PERHAM	9 0F
			ESTIMATED QUANTITIES	77



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34+81 - 34+93 LT	20 PE	INTERSECTION OUADRANT		CONCRETE WALK (4)	PAVERS	PAVEMENT (4)	AGGREGATE BASE (CV) CLASS 5	METAL RAILING (9)	ORNAMENTAL IRON FENCE (9)	STRUCTURAL CONCRETE (3A34) (6)	REINFORCEMENT BARS (6)	CONCRETE STEPS (8)	SLOPE PAVING SPECIAL	CONCRETE WALK	4" CONCRETE WALK SPECIAL (3)	6" CONCRETE WALK	CONCRETE WALK (5)	8" CONCRETE DRIVEWAY PAVEMENT	CONCRETE CURB & GUTTER DESIGN B624	CONCRETE CURB & GUTTER DESIGN D424	CONCRETE CURB DESIGN VE	CONCRETE CURB & GUTTER	TRUNCATED DOMES	SITE RESTORATION	REM
34+71 - 38+24 RT 34+72 - 34+82 RT DAIRY QUEE 34+81 - 34+93 LT HOLDT ST 35+29 RT 35+51 - 38+22 LT 35+64 LT HOLDT ST 35+82 RT HOLDT ST 35+82 RT HOLDT ST 36+11 - 36+98 RT 36+16 LT 37+16 LT 37+16 LT 37+82 RT 38+07 LT HENNING ST 38+07 RT HENNING ST 38+10 RT HENNING ST 38+12 LT HENNING ST 38+66 - 41+86 RT 38+69 - 41+86 LT 38+86 RT 38+89 LT HENNING ST 38+89 RT HENNING ST 38+89 RT HENNING ST 39+24 RT 39+39 RT 39+78 RT 39+39 RT 40+09 LT 40+27 RT 40+29 LT 41+66 RT MAIN ST ST 41+76 RT MAIN ST ST 41+76 RT MAIN ST ST 41+76 RT MAIN ST ST 42+34 - 45+61 LT 42+35 - 45+62 RT 42+44 RT MAIN ST ST 42+55 RT MAIN ST ST 45+21 - 45+38 LT 45+42 LT SUMMIT ST 45+55 RT MAIN ST ST 45+56 LT 45+99 - 46+42 LT 46+00 - 46+75 RT 46+10 RT SUMMIT ST 46+11 RT SUMMIT ST 49+25 RT BOWMAN ST 49+60 LT BOWMAN ST 52+90 RT DUNTON ST 52+90 RT DUNTON ST	75 + 05		LINFT	SO FT	SO FT	SO FT	CU YD	LINFT	LIN FT	CU YD	POUND	CU YD	SO YD	SO FT	SO FT	SO FT	SO FT	SO YD	LINFT	LINFT	LIN FT	LIN FT	SO FT	EACH	1
34+72 - 34+82 RT DAIRY QUEE 34+81 - 34+93 LT HOLDT ST 35+29 RT 35+51 - 38+22 LT 35+64 LT HOLDT ST 35+82 LT HOLDT ST 36+11 - 36+98 RT RT 36+16 - 37+93 LT HOLDT ST 37+61 - 37+93 LT HENNING ST 38+07 RT HENNING ST 38+10 RT HENNING ST 38+12 LT HENNING ST 38+66 - 41+86 RT HENNING ST 38+89 LT HENNING ST 38+89 RT HENNING ST 39+39 RT HENNING ST 39+39 RT HENNING ST 39+83 LT HENNING ST 40+27 RT HENNING ST 41+66 RT MAIN ST 41+76 RT MAIN ST 41+76 RT MAIN ST 42+34 A5+61 LT 42		 	204	1020				<u> </u>											202						$oldsymbol{\square}$
34+81 - 34+93		DAIRY QUEEN NE	402	1029			58	 						3149					398	52					\perp
35+51 - 38+22		HOLDT ST SW					2								<u> </u>	78 88	<u> </u>						12		╀
35+64 LT HOLDT ST 35+82 LT HOLDT ST 35+82 RT HOLDT ST 36+11 - 36+98 RT 36+46 LT 37+16 LT 37+16 LT 37+61 - 37+93 LT 37+82 RT 38+07 RT HENNING ST 38+07 RT HENNING ST 38+10 RT HENNING ST 38+10 RT HENNING ST 38+66 - 41+86 RT 38+66 - 41+86 RT 38+68 RT 38+89 LT HENNING ST 38+89 RT HENNING ST 38+89 RT HENNING ST 39+24 RT 39+39 RT 39+38 RT 39+38 RT 40+09 LT 40+27 RT 40+29 LT 41+66 RT MAIN ST ST 41+76 RT MAIN ST ST 42+44 LT MAIN ST ST 42+44 RT MAIN ST ST 42+45 RT SUMMIT ST 45+55 RT MAIN ST ST 45+56 LT 45+57 RT SUMMIT ST 45+58 RT SUMMIT ST 46+19 RT SUMMIT ST 46+19 RT SUMMIT ST 49+25 RT BOWMAN ST 49+260 RT DUNTON ST	9 RT						15									88	 	92			<u> </u>		12		+
35+82 LT HOLDT ST 35+82 RT HOLDT ST 35+82 RT HOLDT ST 36+11 - 36+98 RT 36+46 LT 37+16 LT 37+16 LT 37+82 RT 38+07 LT HENNING ST 38+07 RT HENNING ST 38+10 RT HENNING ST 38+12 LT HENNING ST 38+66 - 41+86 RT 38+66 RT HENNING ST 38+78 LT HENNING ST 38+89 LT HENNING ST 38+89 RT HENNING ST 39+24 RT 39+39 RT 39+39 RT 39+39 RT 40+09 LT 40+27 RT 40+29 LT 41+66 RT MAIN ST ST 41+76 RT MAIN ST ST 41+76 RT MAIN ST ST 41+77 LT MAIN ST ST 42+34 - 45+61 LT 42+44 LT MAIN ST ST 42+44 LT MAIN ST ST 42+44 RT MAIN ST ST 42+45 RT SUMMIT ST 45+51 LT SUMMIT ST 45+53 RT SUMMIT ST 45+542 LT SUMMIT ST 45+55 RT MAIN ST ST 45+56 LT 46+00 - 46+75 RT 46+11 RT SUMMIT ST 49+25 LT BOWMAN ST 49+25 RT BOWMAN ST 49+260 LT BOWMAN ST 52+90 RT DUNTON ST	8+22 LT		286	146			21							1127	 		-	32	323						+
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36+11 - 36+98 RT 36+46 LT 37+16 LT 37+16 LT 37+82 RT 38+07 RT HENNING ST 38+07 RT HENNING ST 38+10 RT HENNING ST 38+12 LT HENNING ST 38+66 - 41+86 RT 38+69 - 41+86 LT 38+89 RT HENNING ST 38+89 RT HENNING ST 38+89 RT HENNING ST 39+24 RT 39+39 RT 39+39 RT 39+39 RT 40+09 LT 40+27 RT 40+29 LT 41+66 RT MAIN ST ST 41+76 RT MAIN ST ST 41+76 RT MAIN ST ST 42+34 - 45+61 LT 42+44 RT MAIN ST ST 42+55 RT MAIN ST ST 45+52 LT SUMMIT ST 45+53 RT SUMMIT ST 45+542 RT SUMMIT ST 45+55 RT SUMMIT ST 46+19 LT SUMMIT ST 46+19 LT SUMMIT ST 49+25 RT BOWMAN ST 49+60 LT BOWMAN ST 52+90 RT DUNTON ST 52+90 RT DUNTON ST		HOLDT ST NW					2									86							12		T
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CONCRETE CURB & GUTTER / WALK / DRIVEWAY PAVEMENT / METAL RAILING AND FENCE

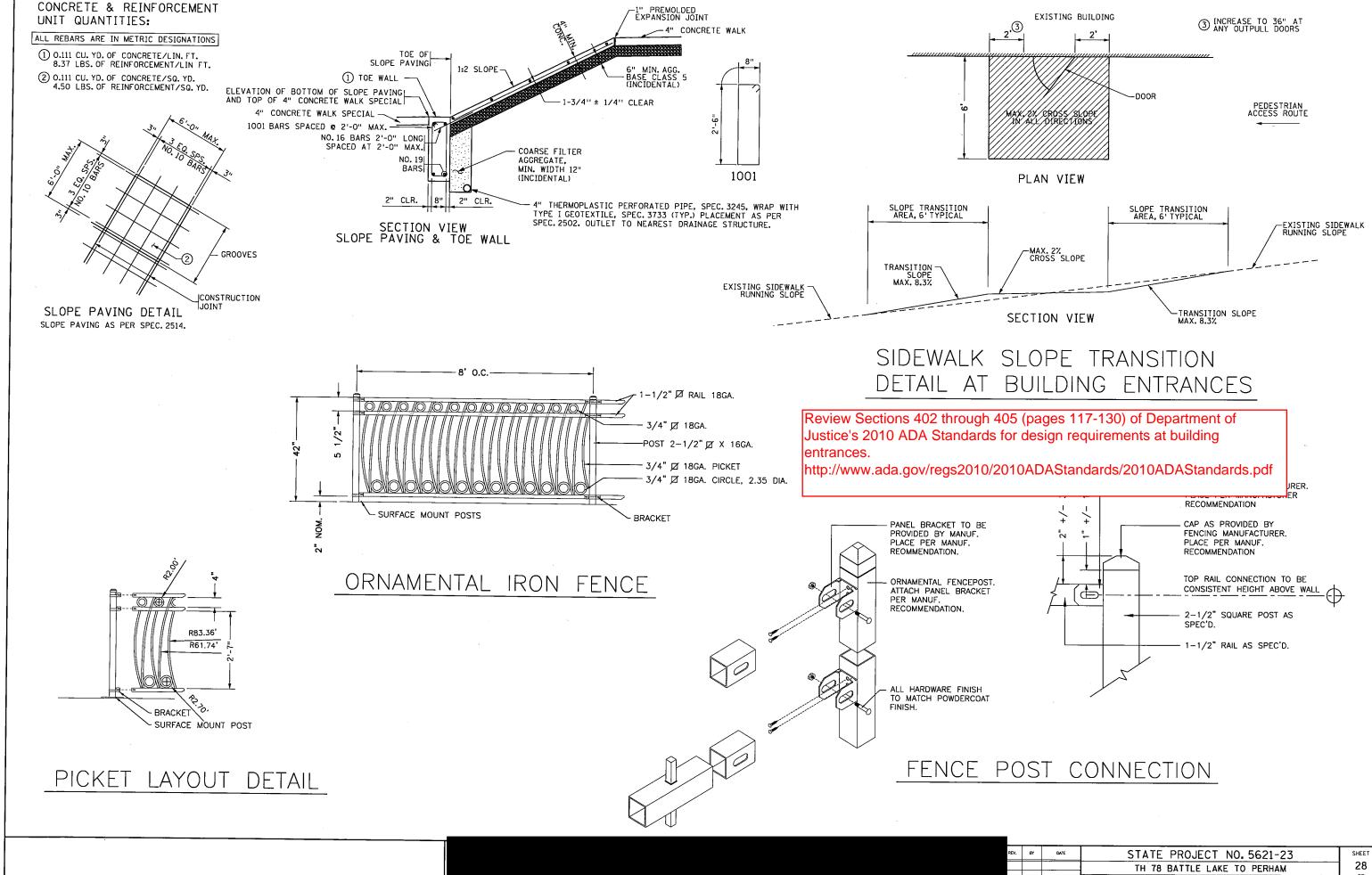
(3) COLORED CONCRETE WITH SWIRL BRUSHED FINISH, SEE SPECIAL PROVISIONS

- (5) AGGREGATE BASE (CV) CLASS 5 IS INCIDENTAL
- (6) SEE CONCRETE TOE WALL DETAILS ON SHEET 28

(9) FIELD VERIFY LENGTH.

(11) COMBINED DIRECTIONAL RAMP, SEE STANDARD PLANS FOR CONSTRUCTION DETAILS (SHEETS 30-34).

REV.	BY	DATE	STATE PROJECT NO. 5621-23	SHEET
			TH 78 BATTLE LAKE TO PERHAM	16
			QUANTITY TABULATIONS	0F 77
-			QUANTITITIADULATIONS	11



DESIGN DETAILS

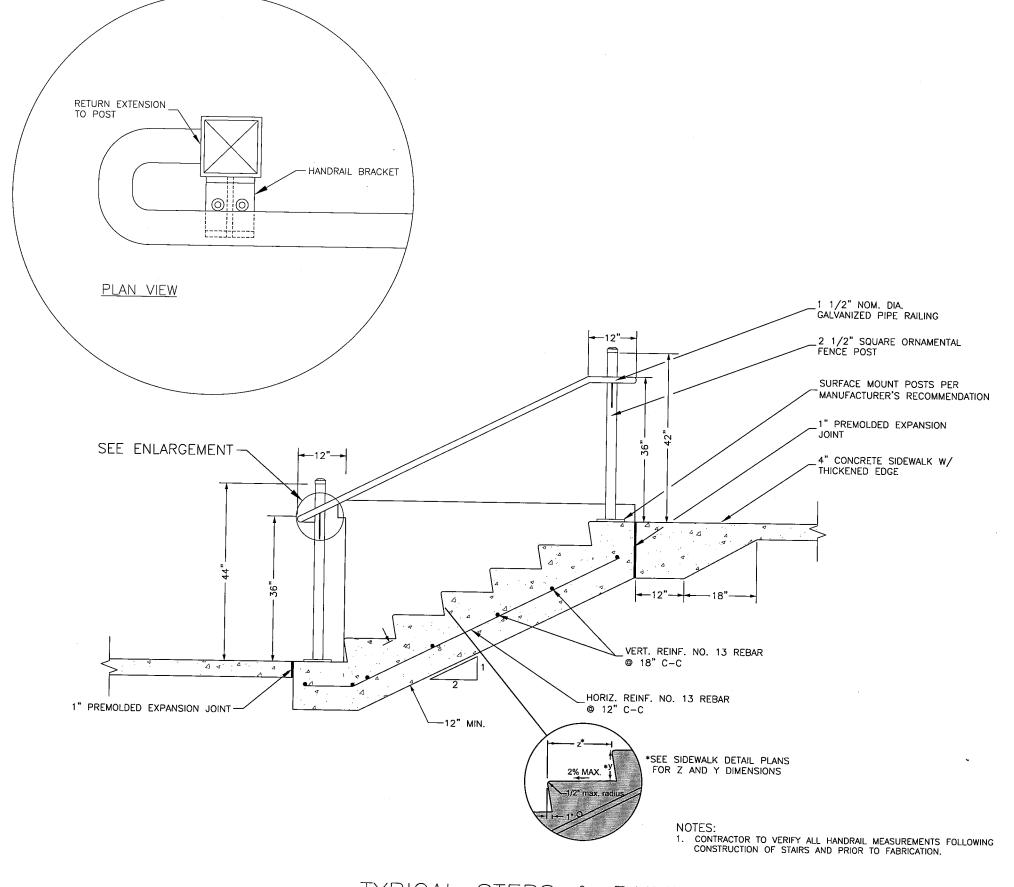
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2 1/2"

PLAN VIEW

1 1/8"

1 3/8"

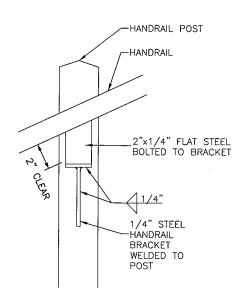
1 1/4"

2-1/2"x2-1/2"x3/16"

SQ. STEEL POST

NOTES: ALL HANDRAIL BRACKETS SHALL HAVE SMOOTH AND CONTINUOUS WELDS AND SHALL FOLLOW MATERIALS NOTED UNLESS OTHERWISE STATED.

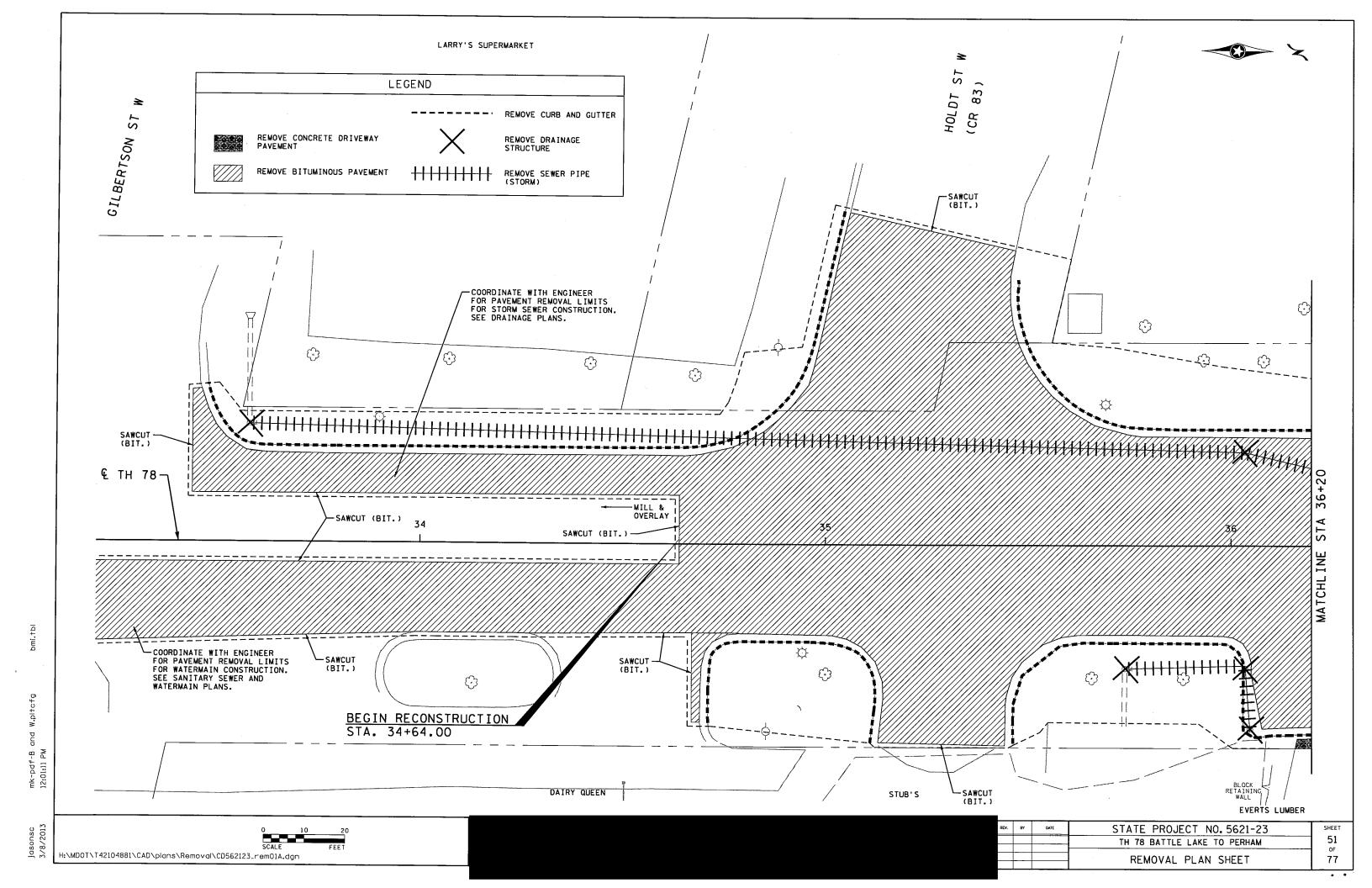
SECTION: HANDRAIL BRACKET

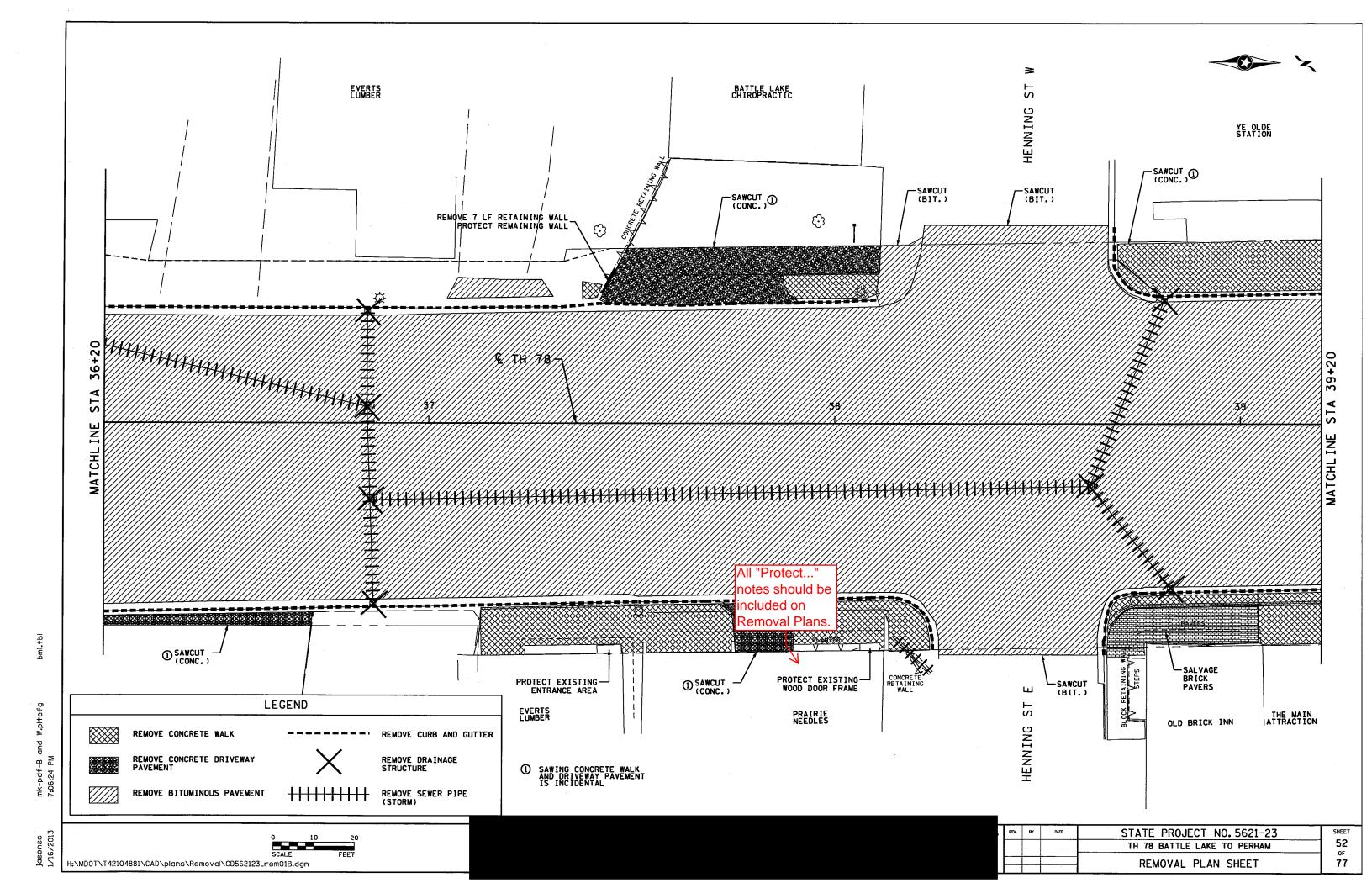


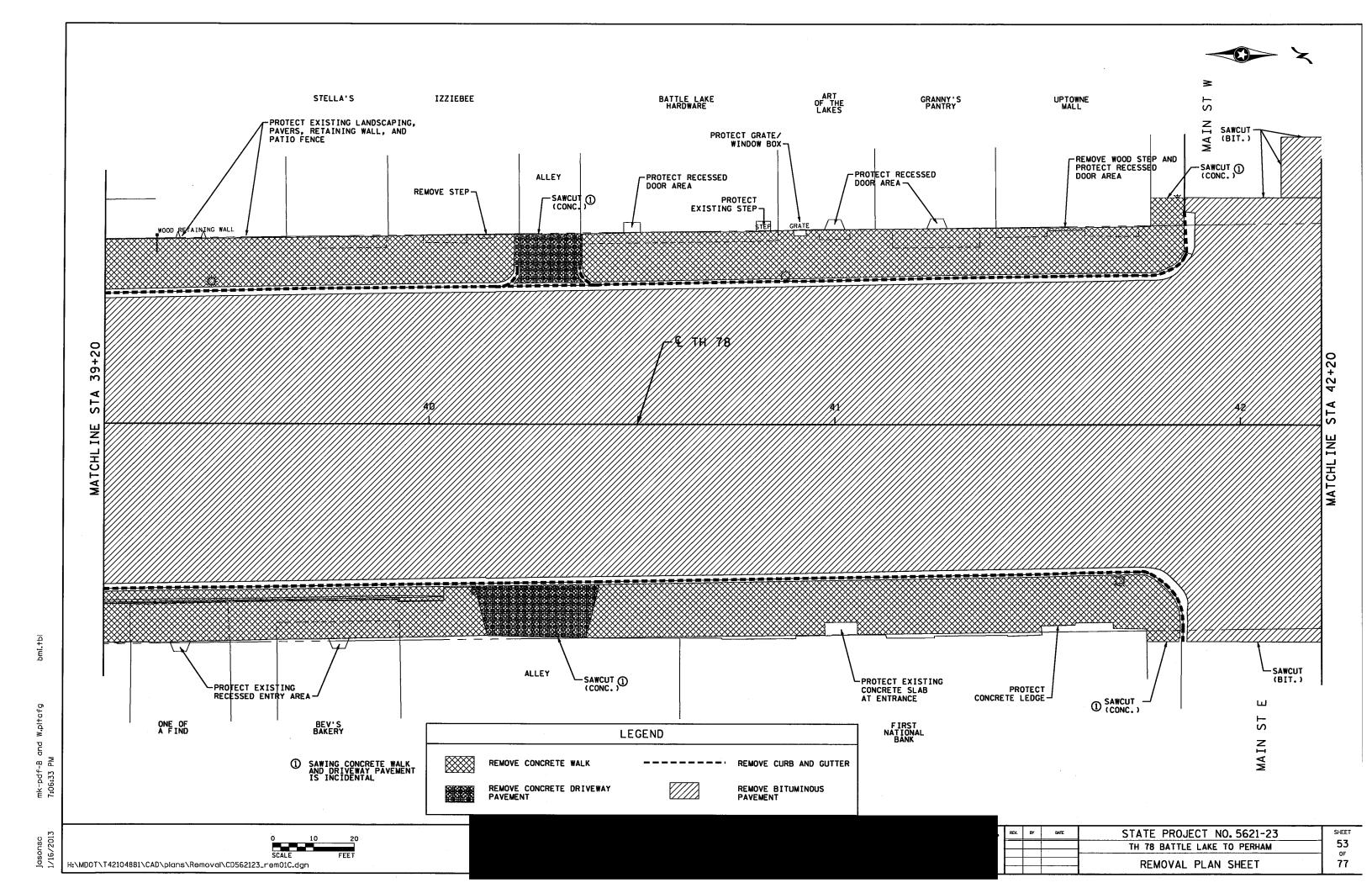
HANDRAIL ELEVATION

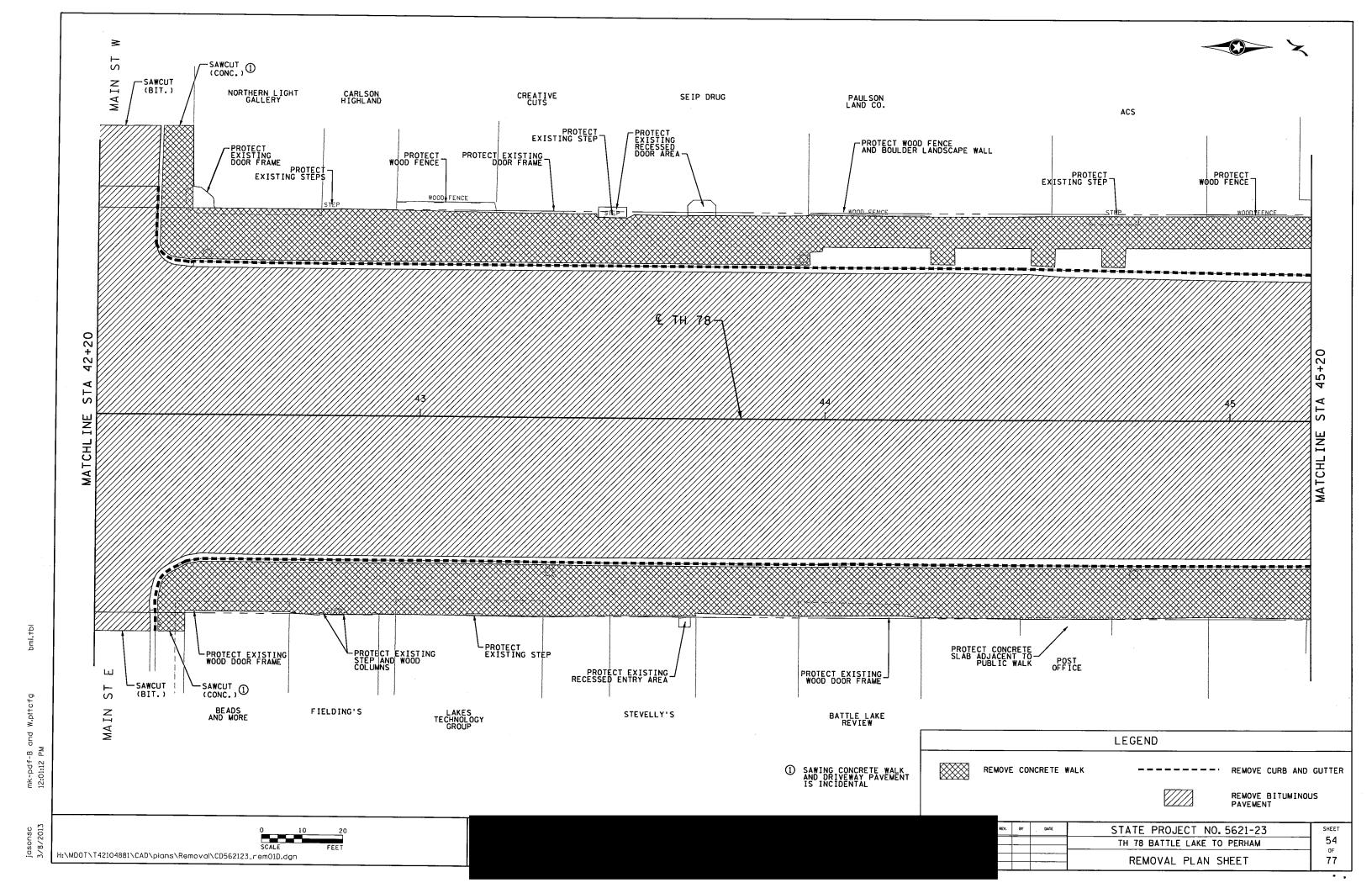
TYPICAL STEPS & RAILING SECTION

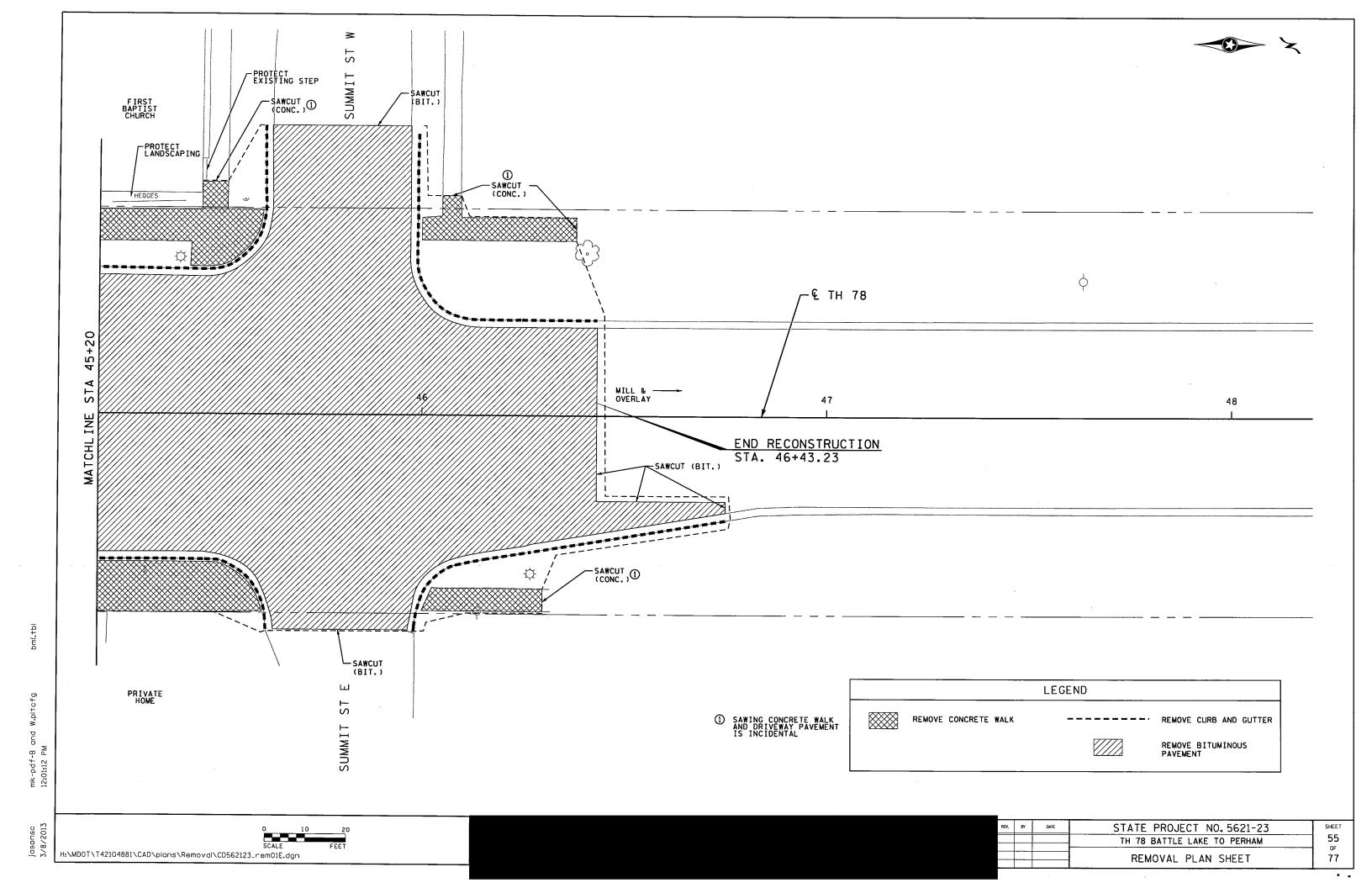
REV.	BY	DATE	STATE PROJECT NO. 5621-23	SHEET
			TH 78 BATTLE LAKE TO PERHAM	29
			DESIGN DETAILS	of 7 7

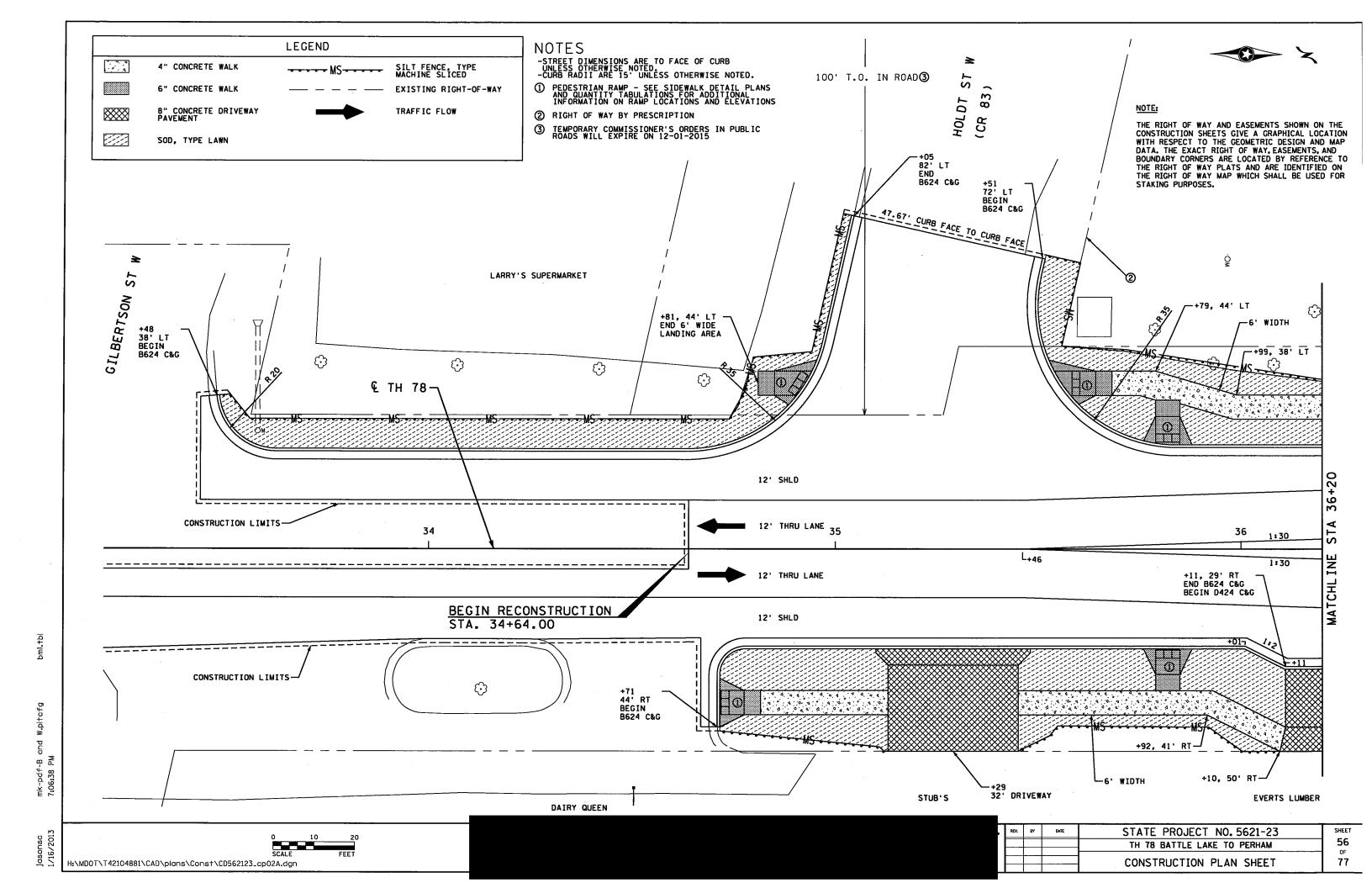


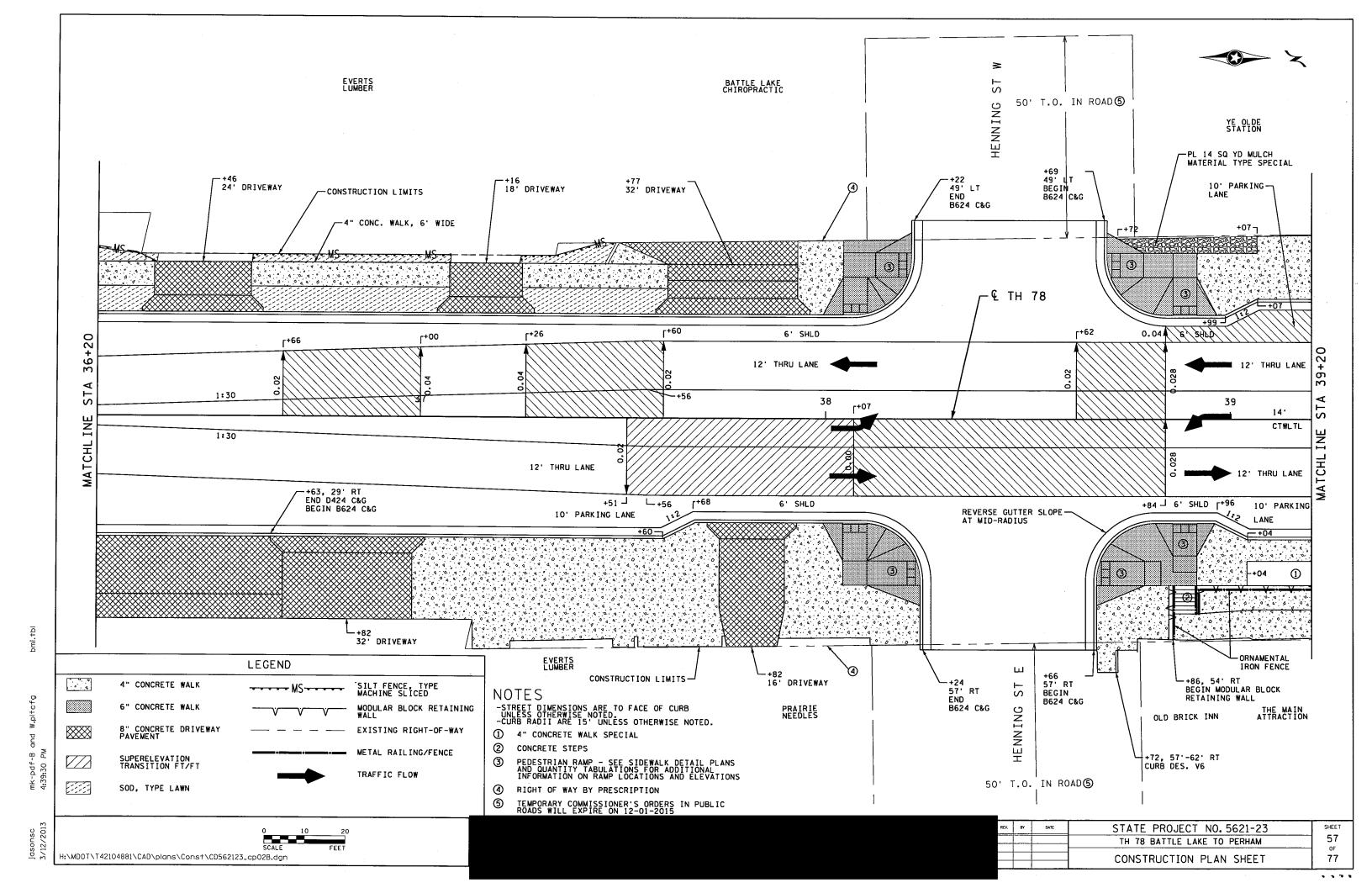


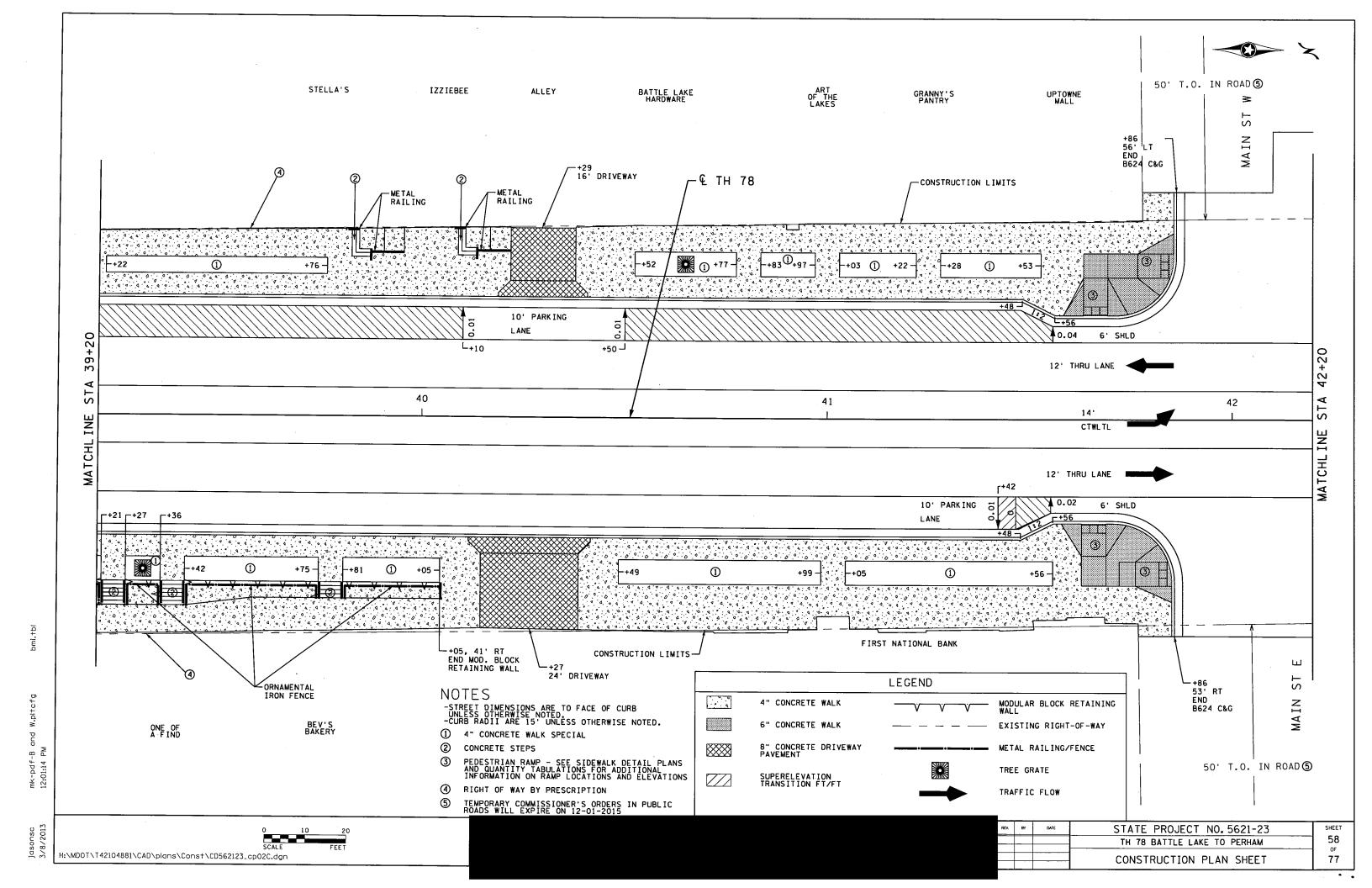


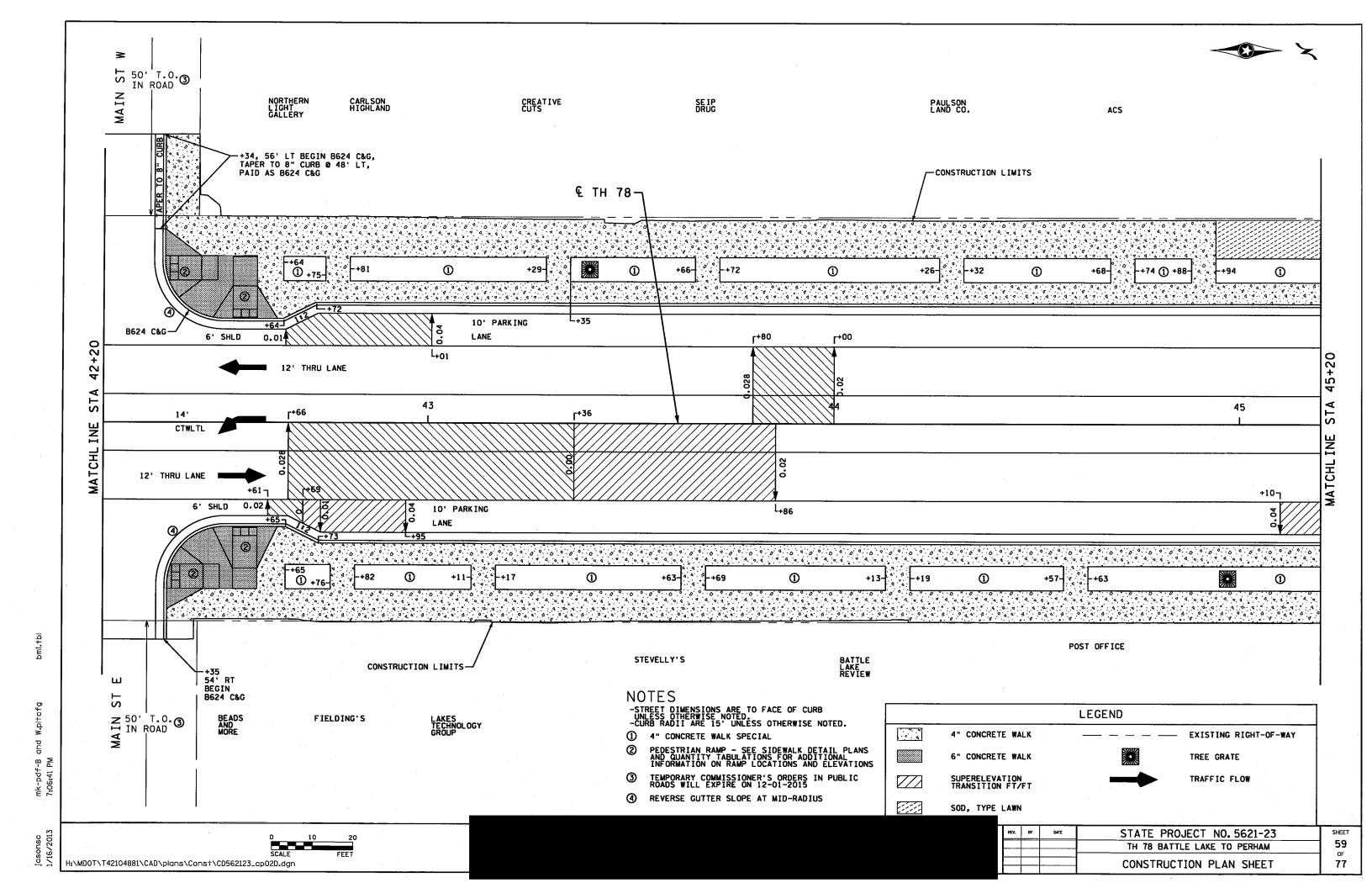


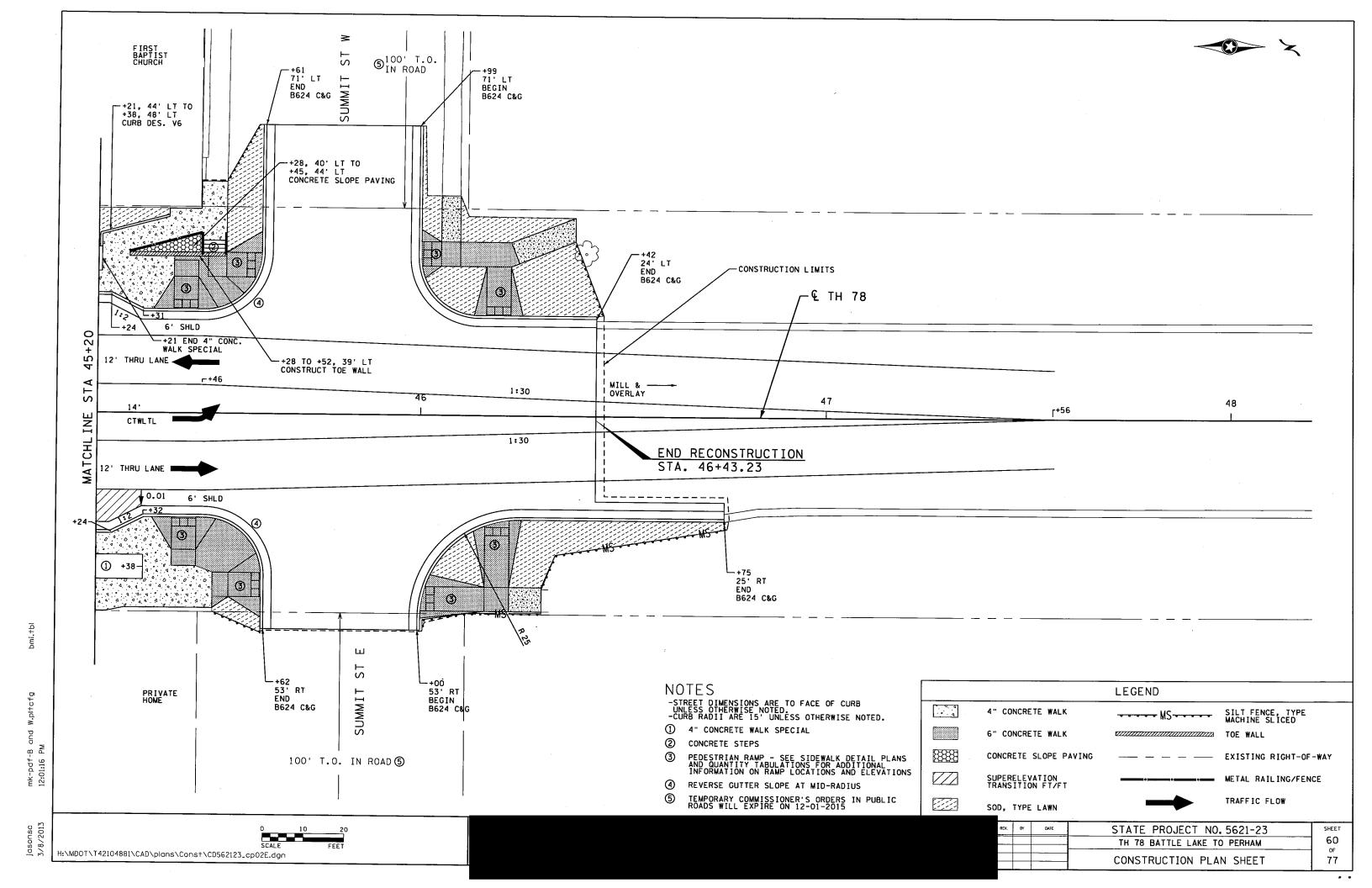


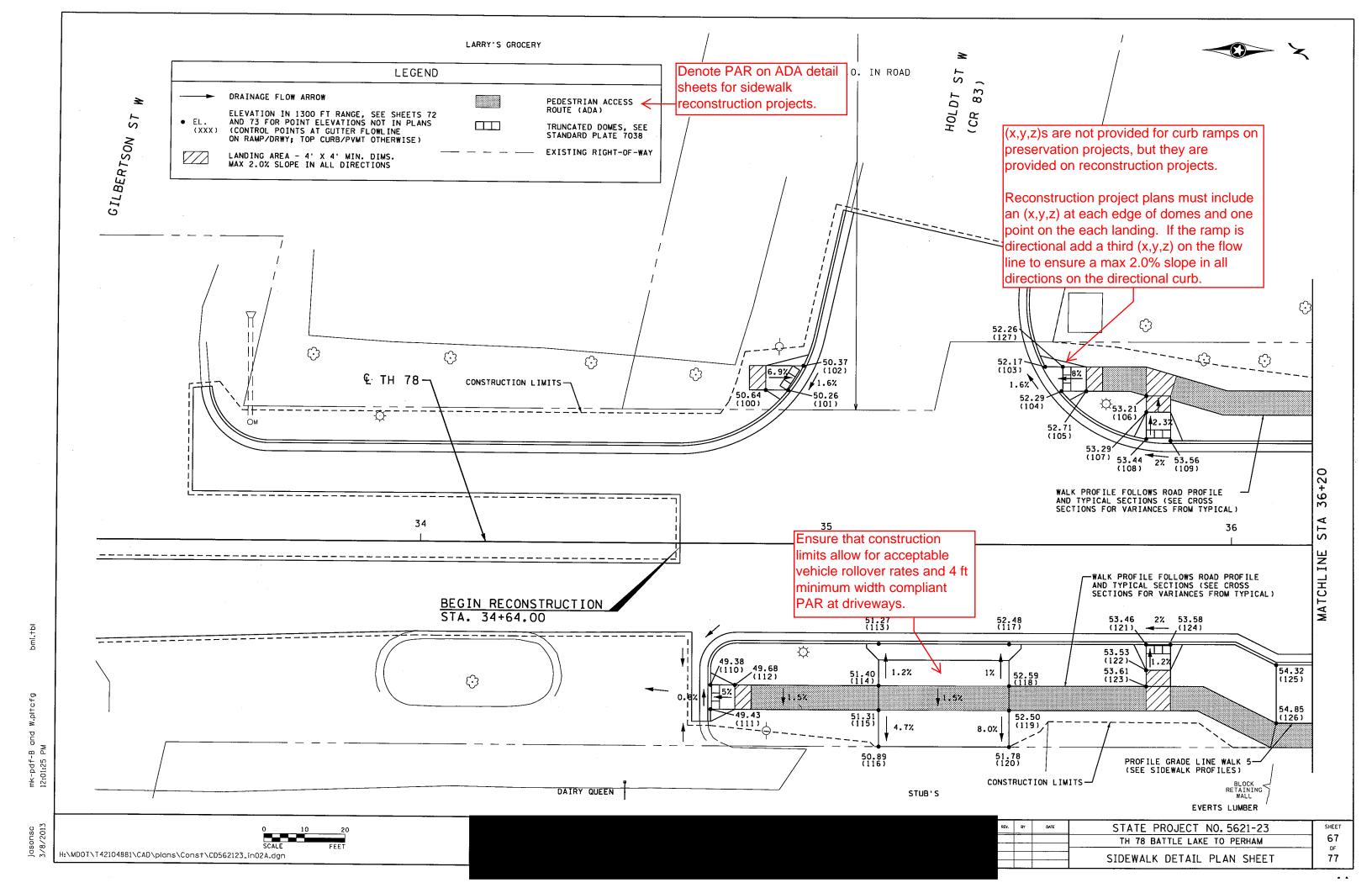


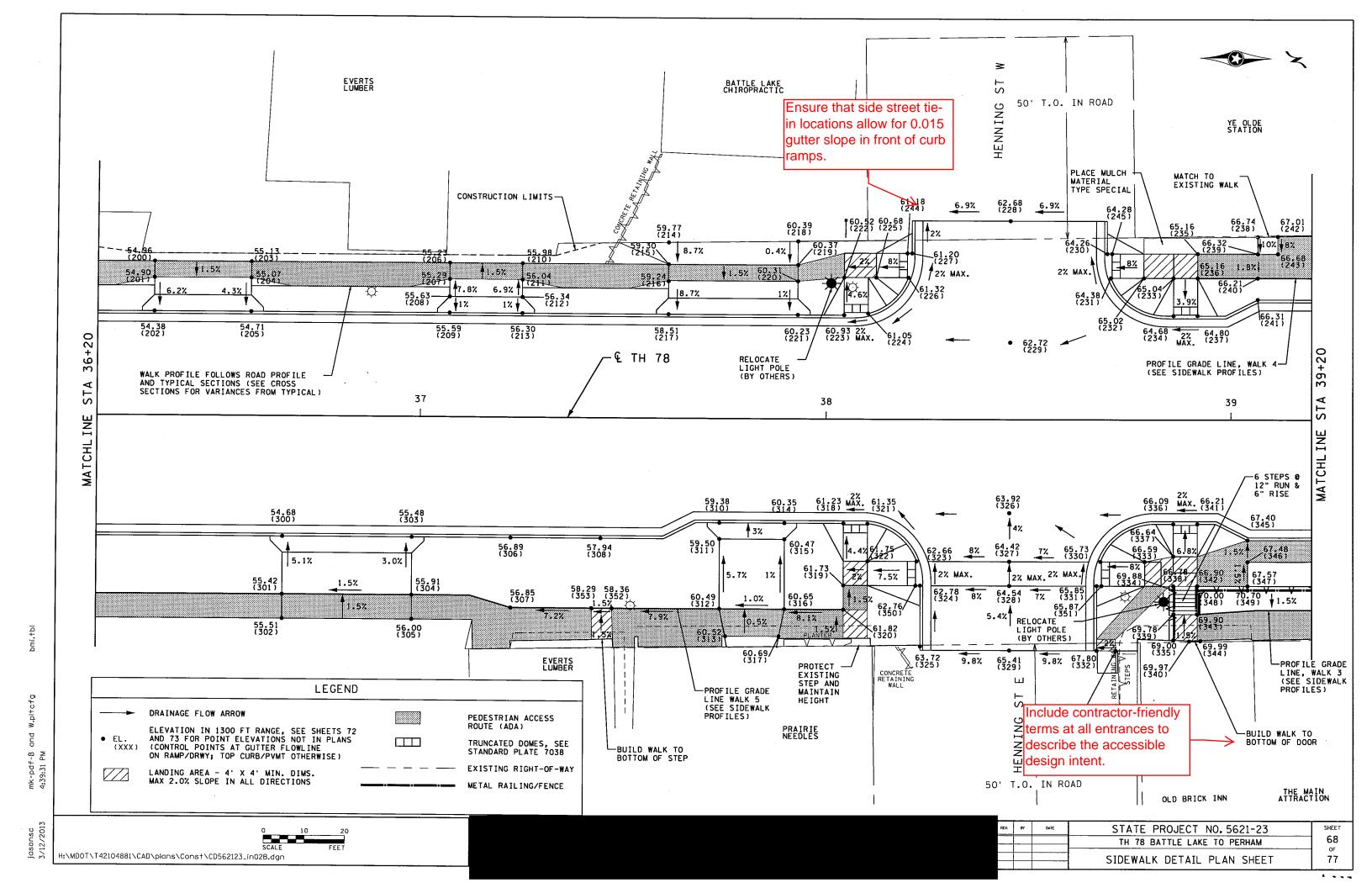


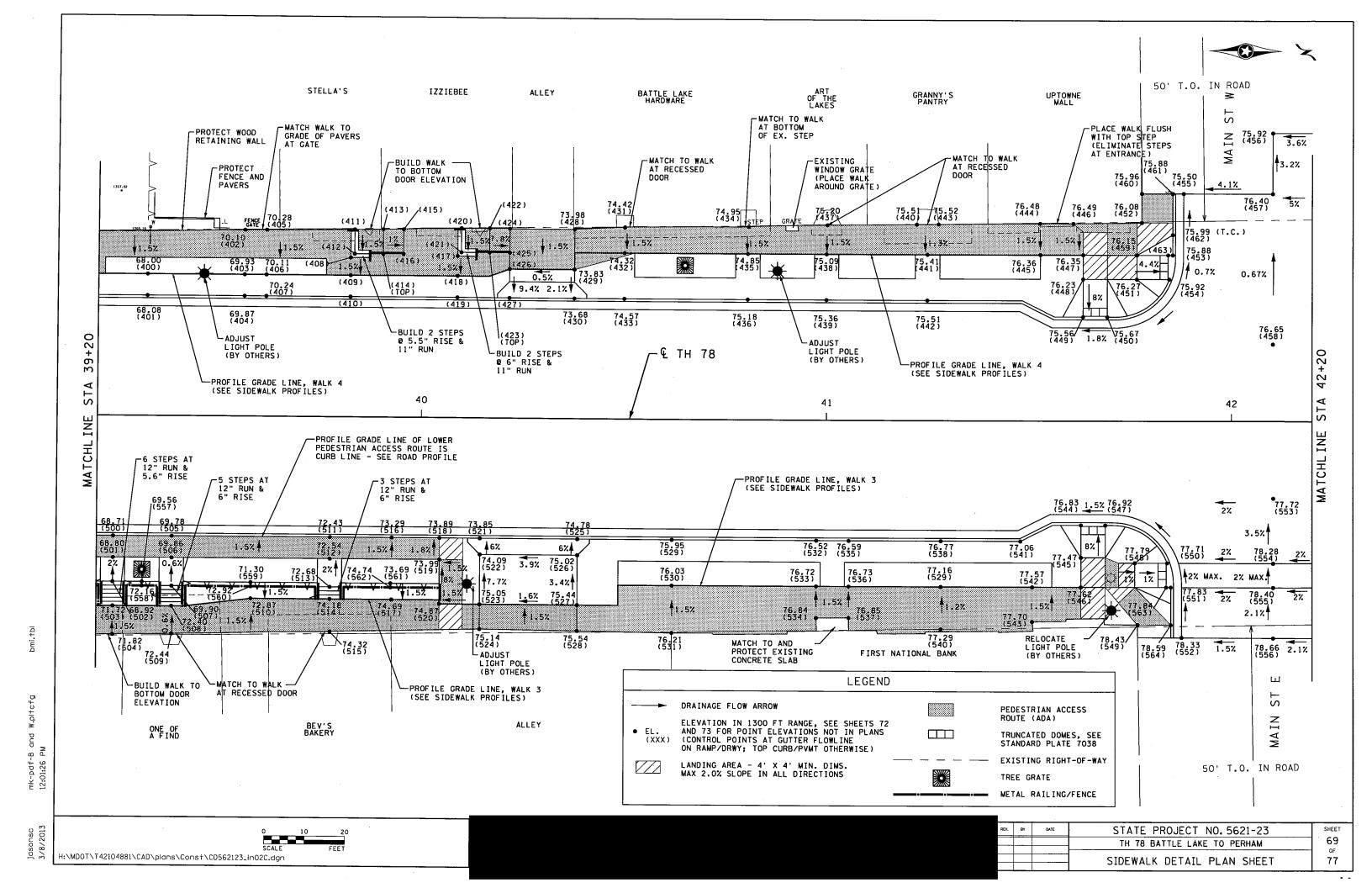


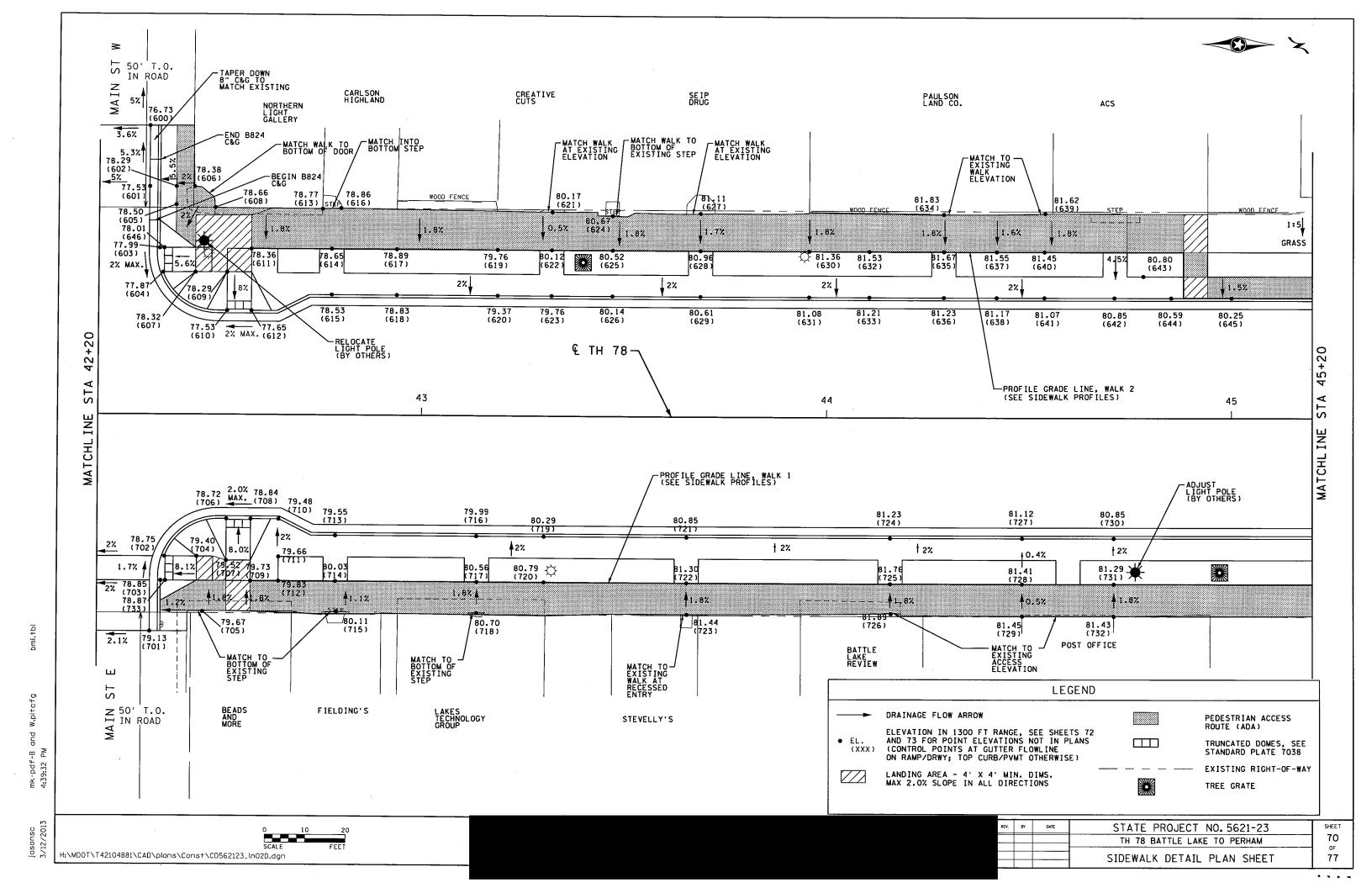


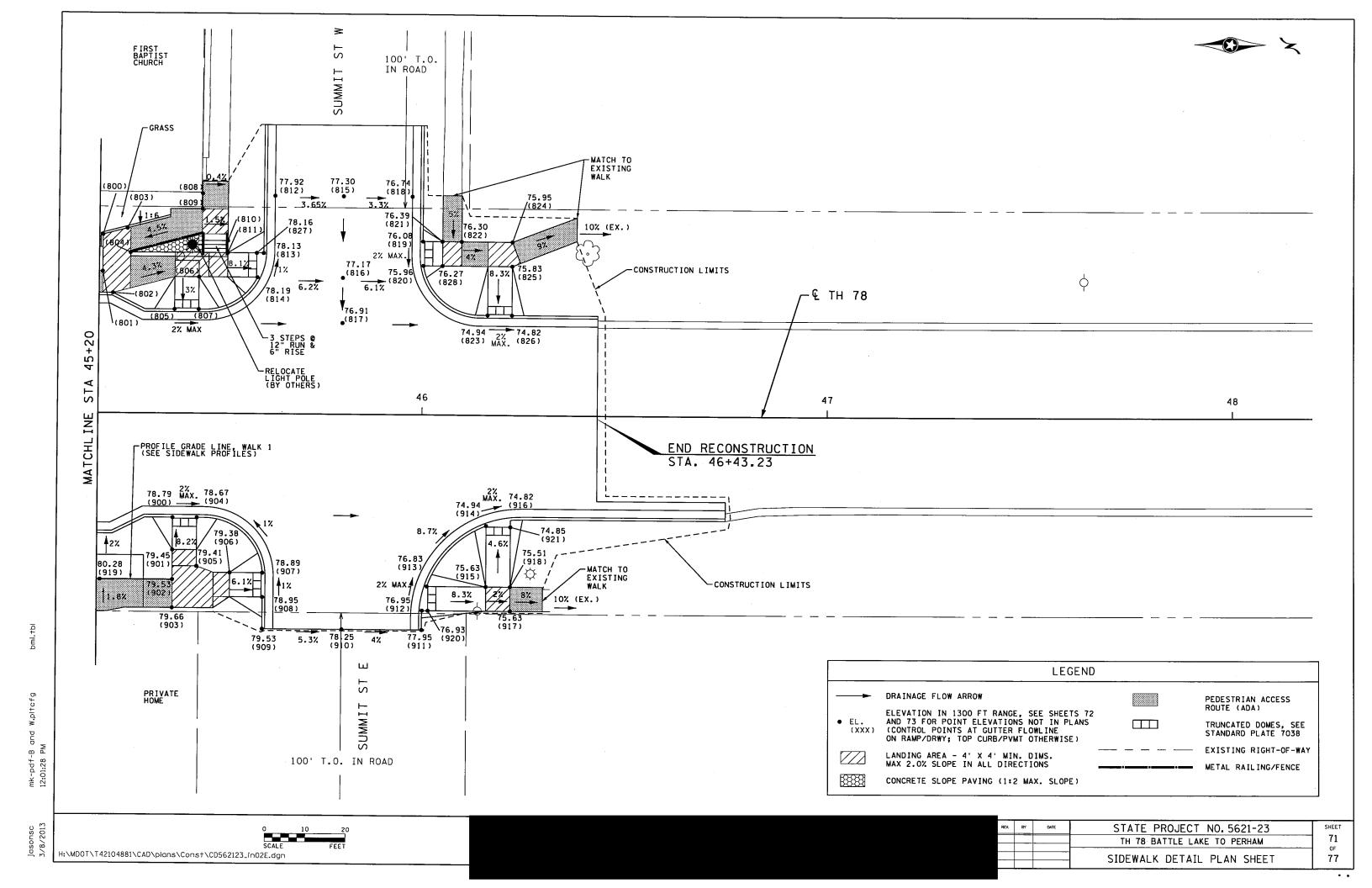












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	/2013
	3/8

CONTROL POINT NO	STATION	OFFSET	LT/RT	ELEVATION
		"		LLLTAITON
100	34+84.97	37.86	LT	
101	34+90.45	37.86	LT	_
102	34+94.21	43.86	LT	
103	35+53.96	43.86	LT	
104	35+58.02	37.86	LT	
105	35+64.18	37.86	LT	
106	35+78.89	36.72	LT	
107	35+78.89	32.72	LT	
108	35+78.89	26.09	LT	
109	35+85.89	25.67	LT	
110	34+71.71	35.00	RT	
. 111	34+71.71	41.00	RT	
112	34+77.71	35.00	RT	
113	35+13.08	24.67	RT	
114	35+13.08	35.00	RT	
115	35+13.08	41.00	RT	
116	35+13.08	50.00	RT	
117	35+45.08	24.67	RT	
118	35+45.08	35.00	RT	
119	35+45.08	41.00	RT	
120	35+45.08	50.00	RT	
121	35+78.89	24.67	RT	
122	35+78.90	31.00	RT	
123	35+78.91	35.00	RT	
124	35+84.89	24.67	RT	
125	36+11.06	29.67	RT	
126	36+11.06	44.00	RT	

CONTROL	 		T	
POINT NO	NOLTATS	OFFSET	LT/RT	ELEVATION
200	36+34.00	38.00	LT	
201	36+34.00	34.00	LT	
202	36+34.00	25.67	LT	
203	36+58.00	38.00	LT	
204	36+58.00	34.00	LT	
205	36+58.00	25.67	LT	
206	37+07.00	38.00	LT	
207	37+07.00	34.00	LT	
208	37+07.00	29.67	LT	
209	37+07.00	25.67	LT	
210	37+25.00	38.00	LT	
211	37+25.00	34.00	LT	
212	37+25.00	29.67	LT	
213	37+25.00	25.67	LT	
214	37+61.00	43.40	LT	
215	37+61.00	38.00	LT	
216	37+61.00	34.00	LT	 -
217	37+61.00	25.66	LT	
218	37+93.00	43.85	LT	
219	37+93.00	38.00	LT	
220	37+93.00	34.00	LT	
221	37+93.00	25.66	LT	
222	38+04.33	35.00	LT	
223	38+04.33	25.67	LT	
224	38+10.33	26.08	LT	
225	38+12.33	35.00	LT	
226	38+20.33	35.00	LT	
227	38+21.23	41.00	LT	
228	38+45.34	49.06	LŤ	
229	38+45.34	19.00	LT	
230	38+69.46	41.00	LT	
231	38+70.36	35.00	LŤ	
232	38+78.36	35.00	LT	
233	38+85.65	35.00	LT	
234	38+85.65	25.67	LT	
235	38+91.65	41.00	LĪ	
236	38+91.65	35.00	LT	
237	38+91.65	25.67	LΤ	
238	39+06.63	45.18	LT	
239	39+06.65	41.00	LT	
240	39+06.64	35.00	LT	
241	39+06.63	29.67	LΤ	
242	39+11.63	45.28	LT	
243	39+11.63	41.00	LT	
244	38+20.06	41.00	LT	
245	38+70.62	41.00	LT	

CONTROL	T	T	1 -	
POINT NO	STATION	OFFSET	LT/RT	ELEVATION
		J	[LLLTAILON
300	36+66.08	29.67	RT	
301	36+66.08	44.00	RT	
302	36+66.08	50.00	RT	
303	36+98.08	29.67	RT	
304	36+98.08	44.00	RT	
305	36+98.08	50.00	RT	
306	37+22.38	29.67	RT	
307	37+22.38	47.00	RT	
308	37+44.58	29.67	RT	
309	37+44.58	47.00	RT	
310	37+73.93	25.66	RT	
311	37+73.93	29.67	RT	
312	37+73.93	47.00	RT	
313	37+75.45	53.73	RT	
314	37+89.93	25.66	RT	
315	37+89.93	29.67	RT	
316	37+89.93	47.00	RT	
317	37+88.58	53.73	RT	
318	38+04.33	25.67	RT	
319	38+04.33	41.00	RT	
320	38+04.33	47,00	RT	
321	38+10.33	25.72	RT	
322	38+10.33	35.00	RT	
323	38+22.57	35.00	RT	
324	38+23.47	41.00	RT	 .
325	38+23.47	56.15	RT	
326	38+45.23	23.00	RT	
327	38+45.23	35.00	RT	
328	38+45.23	41.00	RT	
329	38+45.23	57.00	RT	
330	38+67.88	35.00	RT	
331 332	38+66.98	41.00	RT	
333	38+66.98	57.00	RT RT	
334	38+78.65	35.00	RT	
335	38+85.65 38+85.65	42.00 54.36	RT	
336	38+85.65	25.67	RT	
337	38+85.65	33.67	RT	
338	38+85.65	41.00	RT	
339	38+85.65	48.00	RT	
340	38+89.58	54.68	RT	
341	38+91.65	25.67	RT	<u></u>
342	38+91.65	41.00	RT	
343	38+91.65	48.00	RT	
344	38+92.40	54.60	RT	
345	39+05.16	29.67	RT	
346	39+05.16	35.00	RT	
347	39+05.16	41.00	RT	
348	38+91.65	42.00	RT	
349	39+05.16	42.00	RT	
350	38+22.31	41.00	RT	
351	38+68.15	41.00	RT	
352	37+47.38	47.00	RT	
JJL				

CONTROL POINT NO	STATION	OFFSET	LT/RT	ELEVATION
400	39+32.17	35.00	LT	
401	39+32.17	29.67	LT	
402	39+56.17	45.95	LT	·
403	39+56.17	35.00	LΤ	
404	39+56.17	29.67	LT	
405	39+61.53	46.05	<u>L</u> T	
406	39+61.53	35.00	LĪ	
407	39+61.53	29.67	LT	71 70
408 409	39+82.36	39.37	LT	71.70
410	39+82.36 39+82.36	35.00 29.67	LT	71.63
411	39+83.28	46.28	LT	72.71
412	39+83.28	40.28	LT	72.62
413	39+90.28	46.38	LT	72.71
414	39+90.28	40.28	LT	72.62
415	39+95.28	46.48	LT	72.66
416	39+95.28	40.28	LT	72.57
417	40+08.67	39.91	LT	73.17
418	40+08.67	35.00	LT	73.10
419	40+08.67	29.67	LT	73.01
420	40+09.59	46.77	LT	74.26
421	40+09.59	40.82	LT	74.17
422	40+16.59	46.83	LT	74.29
423	40+16.59	40.82	LT	74.20
424	40+21.63	46.75	LT	73.90
425	40+21.63	40.82	LT	73.81
426	40+21.63	36.82	LT	73.75
427 428	40+21.63	29,66	LT	73.08
429	40+37.63 40+37.63	45.75 36.82	LT LT	
430	40+37.63	29.66	LT	
431	40+49.98	47.32	LT LT	
432	40+49.92	41.00	LT	
433	40+49.92	29.67	LT	
434	40+80.63	47.63	LT	
435	40+80.44	41.00	LT	
436	40+80.44	29.67	LT	
437	41+00.05	48.16	LT	
438	40+99.88	41.00	LT	
439	40+99.88	29.67	LT	
440	41+22.15	48.41	LT	
441	41+24,81	41.00	LT	
442	41+24.81	29.67	LT	
443	41+27.50	48.47 48.71	LT LT	
445	41+52.58 41+52.69	41.00	LT	
446	41+60.81	48.74	LT	
447	41+63.27	41.00	LT	
448	41+63.27	35.00	LT	
449	41+63.27	25.67	LT	
450	41+69.27	25.67	LT	
451	41+76.56	35.00	LT	
452	41+77,75	49.00	LT	
453	41+85.46	41.00	LT	
454	41+84.56	35.00	LT	
455	41+88.13	56.15	LT	
456	42+10.13	71.14	LT	
457	42+10.13	56.14	LT	
458 459	42+10.13	19.00	LT	
459 460	41+76.56 41+77.75	41.00 56.15	LT	
461	41+85.46	56.15	LT LT	
462	41+85.46	46.00	LT	
463	41+84.29	46.00	LT	75.89
-103	11.01.63	10,00	1	13.03

NOTE: ELEVATIONS PROVIDED IN TABLE WHEN SPACE NOT ADEQUATE IN PLAN VIEW.

REV.	81	DATE	STATE PROJECT NO. 5621-23	SHEE
			TH 78 BATTLE LAKE TO PERHAM	72
			SIDEWALK POINT ELEVATIONS	77

CONTROL				
POINT NO	i .	OFFSET	LT/RT	ELEVATION
500	39+24.12	29.67	RT	
501	39+24.12	35.00	RT	
502	39+24.12	41.00	RT	
503	39+24.12	47.00	RT	
504	39+24.12	54.06	RT	
505	39+38.73	29.67	RT	<u> </u>
506	39+38.73	35.00	RT	
507	39+38.73	42.00	RT	
508	39+38.73	47.00	RT	·
509 510	39+38.78 39+58.25	53.83	RT	
511		45.00	RT	
512	39+77.78 39+77.78	29.67	RT	
513	39+77.78	35.00	RT RT	
514	39+77.78	42.00 45.00	+-+	
515	39+77.83	53.03	RT RT	
516	39+92.98	29.67	RT	
517	39+92.98	45.00	RT	
518	40+04.71	29.67	RT	
519	40+04.71	35.00	RT	
520	40+04.71	46.00	RT	
521	40+14.71	29.66	RT	
522	40+14.71	33.67	RT	
523	40+14.71	46.00	RT	
524	40+14,71	52.12	RT	
525	40+38.71	29.66	RT	
526	40+38.71	33.67	RT	
527	40+38.71	46.00	RT	
528	40+38.71	52.41	RT	
529	40+61.96	29.67	RT	
530	40+61.96	41.00	RT	
531	40+61.96	52.70	RT	
532	40+97.57	29.67	RT	
533	40+97.57	41.00	RT	
534	40+97.57	48.83	RT	
535	41+05.64	29.67	RT	
536	41+05.64	41.00	RT	
537	41+05.64	48.75	RT	
538	41+28.26	29.67	RT	
539	41+28.26	41.00	RT	
540	41+28.26	51.50	RT	
541	41+47.88	29.67	RT	
542	41+50.85	41.00	RT	
543	41+50.85	49.57	RT	
544	41+62.86	25.67	RT	
545	41+62.86	33.67	RT	
546	41+62.86	41.00	RT	
547	41+68.86	25.67	RT	
548	41+76.15	35.00	RT	
549	41+76.82	50.33	RT	
550 551	41+84.15	35.00	RT	
551 552	41+85.05 41+87.72	41.00	RT	
553	42+10.47	53.47	RT	
554	41+10.50	19.00	RT	
555	42+10.52	35.05	RT	
556	42+10.54	41.05	RT	
557	39+31.38	53.56	RT	
558	39+31.38	41.00	RT	
559	39+58.22	42.00 41.00	RT RT	
560	39+58.22	42.00	RT	
561	39+92.74	41.00	RT	
562	39+92.74	42.00	RT	
563	41+83.89	41.00	RT	
564	41+85.05	50.33	RT	
		20,22	11.1	

CONTROL		T		
POINT NO	STATION	OFFSET	LT/RT	ELEVATION
600	42+32.41	71.23	LT	
601	42+32.45	56.23	LT	
602	42+39.08	56.24	LT	
603	42+35.08	41.09	LT	
604	42+35.94	35.10	LT	
605	42+39.08	51.78	LT	
606	42+43.61	56.25	LT	
607	42+43.94	35.13	LT	
608	42+48.71	51.09	LT	
609	42+51.76	35.16	LT	
610	42+51.79	25.67	LT	
611	42+57.73	40.94	LT	
612	42+57.79	25.67	LT	
613	42+75.37	50.87	LT	
614	42+77.67	41.04	LT	**
615	42+77.71	29.71	LT	
616	42+79.89	51.08	LT	
617	42+93.69	41.00	LT	
618	42+93.73	29.67	LT	
619	43+18.54	41.00	LT	
620	43+18.59	29.67	LT	
621	43+32.08	50.37	LT	
622	43+31.98	41.00	LT	
623	43+31.98	29.67	LT	
624	43+46.99	49.52	LT	
625	43+47.03	41.00	LT	
626	43+47.03	29.67	LT	
627	43+68.74	50.21	LT	
628	43+68.78	41.00	LT	
629	43+68.78	29.67	LT	
630	43+95.58	41.00	LT	
631	43+95.58	29.67	LT	
632	44+10.52	41.00	LΤ	
633	44+10.52	29.67	LT	
634	44+28.84	50.22	LT	
635	44+28.85	41.00	LT	
636	44+28.85	29.67	LT	
637	44+41.86	41.00	LT	
638	44+41.86	29.67	LT	
639	44+53.86	50.47	LT	
640	44+53.73	41.00	LT	
641	44+53.73	29.67	LT	
642	44+70.97	29.67	LT	
643	44+78.10	35.00	LT	
644	44+85.00	29.67	LT	
645	45+00.00	29.67	LT	
646	42+36.18	41.10	LT	

CONTROL			1	
POINT NO	STATION	OFFSET	LT/RT	ELEVATION
701	42+33.14	53.56	RT	
702	42+36.71	35.00	RT	
703	42+35.81	41.00	RT	
704	42+44.71	35.00	RT	
705	42+46.22	48.63	RT	
706	42+52.00	25.67	RT	
707	42+52.00	36.00	RT	
708	42+58.00	25.67	RT	
709	42+58.00	41.00	RT	
710	42+64.98	25.67	RT	
711	42+64.98	35.00	RT	
712	42+64.98	41.00	RT	-
713	42+78.98	29.67	RT	
714	42+79.04	41.00	RT	
715	42+79.31	48.50	RT	
716	43+13.71	29.67	RT	
717	43+13.78	41.00	RT	
718	43+13.75	48.71	RT	
719	43+30.39	29.67	RT	
720	43+30.39	41.00	RT	
721	43+65.55	29.67	RT	
722	43+65.55	41.00	RT	
723	43+65.64	48.78	RT	
724	44+15.83	29.67	RT	
725	44+15.83	41.00	RT	
726	44+15.98	48.41	RT	
727	44+48.28	29.67	RT	
728	44+48.28	41.00	RT	
729	44+48.29	48.91	RT	
730	44+70.93	29.67	RT	
731	44+70.93	41.00	RT	
732	44+70.92	48.97	RT	
733	42+36.97	41.00	RT	

CONTROL				
POINT NO	STATION	OFFSET	LT/RT	ELEVATION
800	45+20.83	44.09	LT	79.50
801	45+20.83	35.00	LT	79.61
802	45+23.39	29.67	Lĭ	79.49
803	45+26.83	45.65	LT	79.50
804	45+27.65	39.67	LT	79.49
805	45+38.75	25.67	LT	78.67
806	45+44.75	33.67	LT	78.79
807	45+44.75	25.67	LT	78.55
808	45+45.47	54.31	LT	80.51
809	45+45.43	50.50	LT	80.38
810	45+51.74	42.67	LT	80.25
811	45+51.74	39.67	LT	78.75
812	45+63.24	53.83	LT	
813	45+60.56	39.67	LT	
814	45+59.09	33.67	LĬ	
815	45+80.23	53.83	LT	
816	45+80.23	33.67	LT	
817	45+80.23	22.50	LT	
818	45+97.23	53.83	LT	
819	45+99.90	42.80	LT	
820	46+00.07	36.80	LT	
821	46+04.67	42.66	LT	
822	46+11.37	44.35	LT	
823	46+16.01	24.67	LT	
824	46+22.01	42,80	LT	
825	46+22.01	36.80	LT	-
826	46+22.01	24.67	LT	
827	45+58.84	39.67	LT	
828	46.04.75	36.80	LT	

CONTROL POINT NO	STATION	OFFSET	LT/RT	ELEVATION
900	45+38.75	25.67	RT	
901	45+38.75	33.67	RT	
902	45+38.76	40.97	RT	
903	45+38.75	48.00	RT	
904	45+44.75	25.67	RT	
905	45+44.75	37.67	RT	
906	45+52.92	39.24	RT	
907	45+60.92	39.24	RT	
908	45+60.94	45.24	RT	
909	45+60.94	53.10	RT	
910	45+80.60	53.10	RT	
911	46+00.27	53.09	RT	
912	46+00.33	48.33	RT	
913	46+01.51	42.33	RT	
914	46+16.01	27.24	RT	
915	46+16.01	42.33	RT	
916	46+22.01	25.81	RT	
917	46+22.01	48.33	RT	
918	46+22.01	42.33	RT	
919	45+20.80	41.00	RT	
920	46+01.79	48.33	RT	
921	46+22.01	27.50	RT	

NOTE: ELEVATIONS PROVIDED IN TABLE WHEN SPACE NOT ADEQUATE IN PLAN VIEW.

REV.	BY	DATE	STATE PROJECT NO. 5621-23	SHEET
			TH 78 BATTLE LAKE TO PERHAM	73
				OF
			SIDEWALK POINT ELEVATIONS	77

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