

CONTACT JULIE AT 811 OR 800-892-0123

With the following:



County MADISON

City / Township CITY OF ALTON

Sec & 1/4 Sec No. NW. 1/4 SEC. 2 T.5N., R.10W. SW. 1/4 SEC. 35 T.6N., R.10W.

48 HOURS (2 working days) BEFORE YOU DIG

AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

- ILLINOIS AMERICAN WATER CO. 4436 INDUSTRIAL DRIVE ALTON, ILLINOIS 62002 (618) 466-2131 (WATER) (618) 239-3258 (SEWER)
CHARTER COMMUNICATIONS 4767 SIGNATURE INDUSTRIAL DRIVE EDWARDSVILLE, IL 62025 (618) 779-4179
AT&T COMMUNICATIONS 203 GOETHE COLLINSVILLE, IL 62234 (618) 346-6400 (618) 346-6426
AMEREN 700 OAKWOOD AVENUE ALTON, ILLINOIS 62002 (618) 463-4030 (ELECTRIC) (618) 463-4027 (GAS) (888) 659-4540 (CONST. HOTLINE)
ALTON PUBLIC WORKS 2 EMMA KAUS LANE ALTON, ILLINOIS 62002 (618) 466-3530

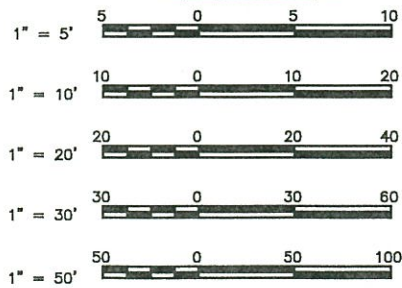
INDEX TO SHEETS

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HIGHWAY STANDARDS

Table with 3 columns of highway standard codes: 001001-02, 701006-05, 720001-01, etc.

SCALES



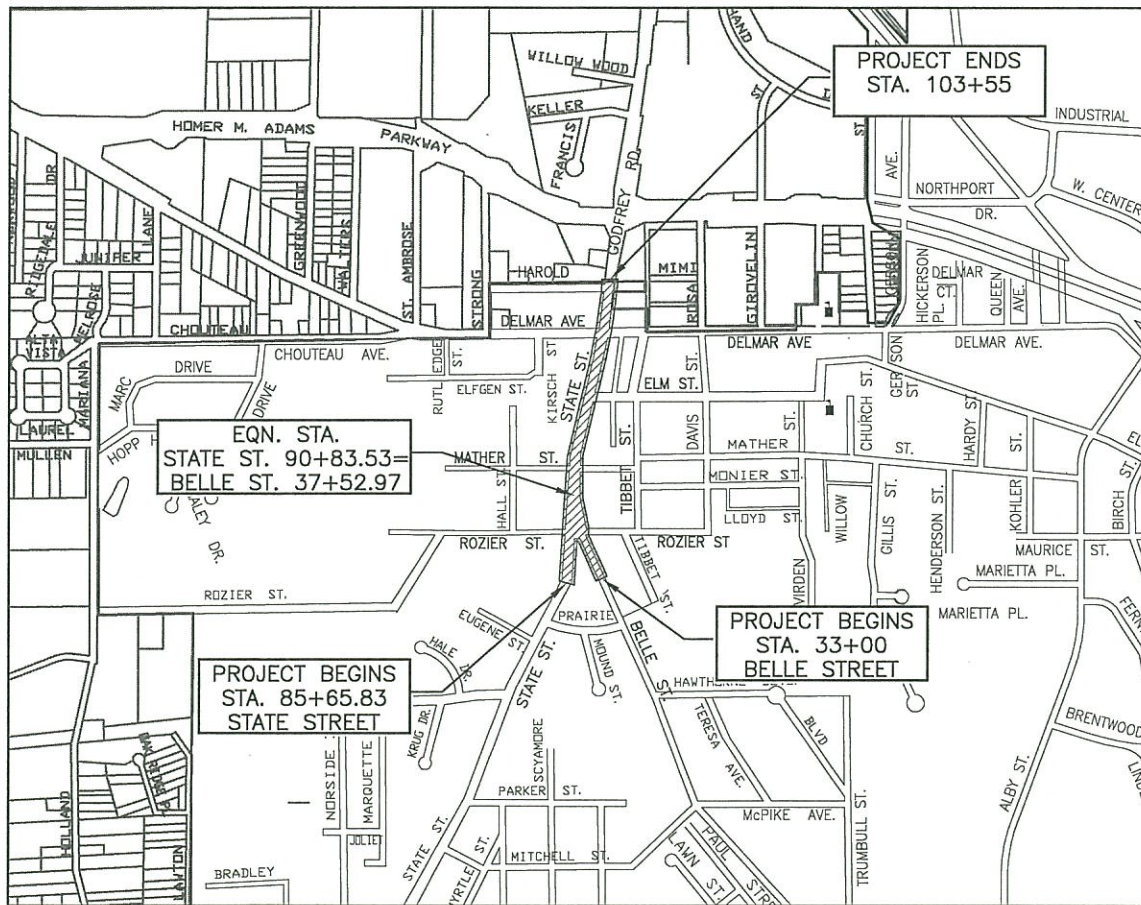
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS THE ABOVE SCALES MAY BE USED.

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL
DESIGN SPEED = 30 M.P.H.
2020 ADT = 11,550

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

STU FUNDS

STATE STREET
SECTION 16-00238-00-RS
FAU ROUTE 8994
PROJECT Q09H(382)
CITY OF ALTON, ILLINOIS
MADISON COUNTY
JOB C-98-330-16



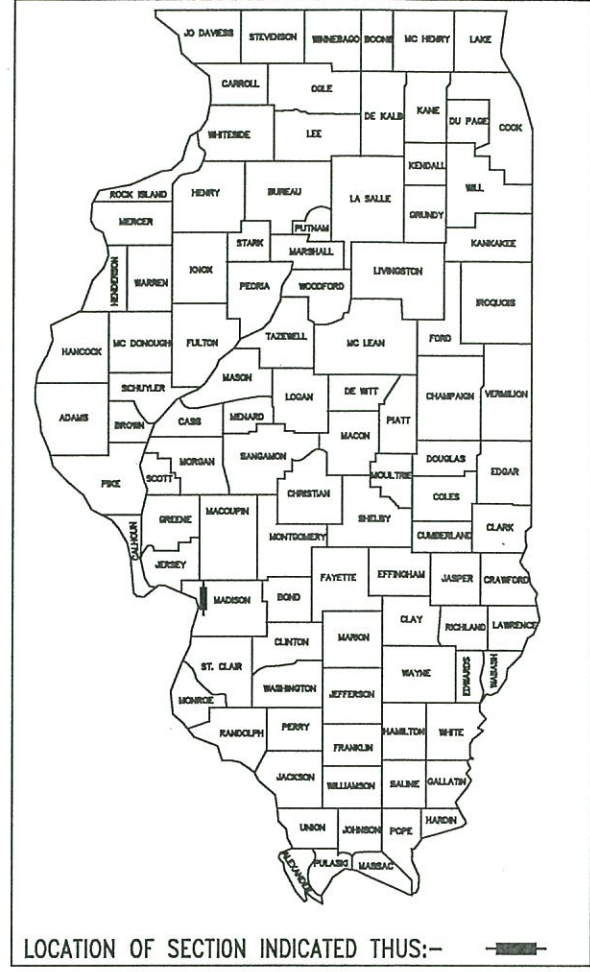
LOCATION MAP
SCALE IN FEET

GROSS AND NET LENGTH = 2,242.14 FEET = 0.425 MILES

SMS ENGINEERS logo and Sheppard Morgan & Schwaab, Inc. CONSULTING ENGINEERS & LAND SURVEYORS contact info.

04-24-2020 LETTING ITEM 191

Table with columns: SECTION, COUNTY, TOTAL SHEETS, SHEET NO., FEDERAL AID PROJECT, CONTRACT NO.



Approval stamps: APPROVED January 30, 2020; PASSED February 21, 2020; RELEASING FOR BID February 21, 2020.



DATE SIGNED 1-30-2020
EXPIRATION DATE 11-30-21

JANUARY, 2020

Q:\CIVIL_3D PROJECTS\ALTON PW (409793.1) 2020 STP PROJECT STATE STREET\Production Drawings\STATE ST CVR SHEET 1.DWG, 1/30/2020 8:01:50 AM, CPruitt, 1:2

STANDARD SYMBOL LEGEND

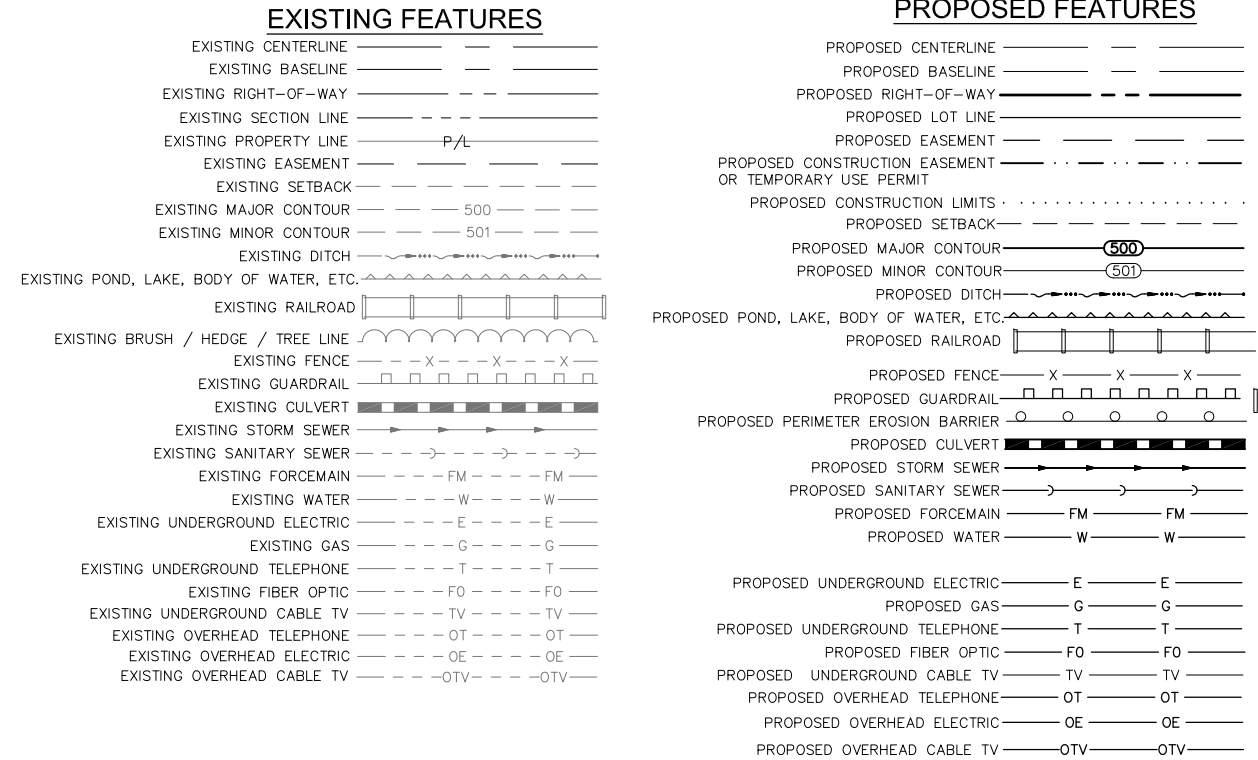
- EXISTING**
- EXISTING GUY POLE - -○-
 - EXISTING LIGHT POLE - -X
 - EXISTING POWER POLE - -○-
 - EXISTING TELEPHONE POLE - -○-
 - EXISTING GUY WIRE - -←
 - EXISTING TRANSMISSION TOWER - □
 - EXISTING ELECTRIC SPLICE BOX - □^E
 - EXISTING TELEPHONE SPLICE BOX - □^T
 - EXISTING CABLE SPLICE BOX - □^{TV}
 - EXISTING WATER HYDRANT - -FH
 - EXISTING GAS METER - -G
 - EXISTING WATER METER - -W
 - EXISTING WATER VALVE - -V
 - EXISTING GAS VALVE - -G
 - EXISTING FIRE HYDRANT - -FH
 - EXISTING SANITARY MANHOLE TOP - -○
 - EXISTING STORM MANHOLE TOP - -○
 - EXISTING TELEPHONE MANHOLE TOP - -T
 - EXISTING SANITARY CLEAN OUT - -○
 - CONTROL POINT - -△ XXX
 - BENCHMARK - -BM
 - TEST PIT / NUMBER - -⊕ X
 - BORING / NUMBER - -⊕ X
 - RIGHT-OF-WAY MARKER - -MON
 - AXLE FOUND - -○ AXLE
 - BOLT FOUND - -○ BOLT
 - CHISELED "X" FOUND - -X
 - PIN FOUND - -○ IP
 - PINCH PIPE FOUND - -○ IP
 - PK NAIL FOUND - -○ PK
 - RAILROAD SPIKE FOUND - -○ RR
 - STONE FOUND - -□ STONE
 - BRASS MONUMENT FOUND - -○ MON
 - IRON PIPE FOUND - -○ IP
 - MONUMENT FOUND - -□ MON
 - REBAR FOUND - -○ RBR
 - EXISTING MAILBOX - -F
 - EXISTING FENCE POST - -⊕
 - EXISTING GATE POST - -⊕
 - EXISTING FLAG POLE - -○
 - EXISTING GUARD POST - -○ GP
 - EXISTING ADVERTISING SIGN - -
 - EXISTING TRAFFIC SIGN - -
 - EXISTING PARKING METER - -P
 - EXISTING RAILROAD MILE POST - -MP
 - EXISTING RAILROAD SIGNAL CONTROLLER - -
 - EXISTING RAILROAD CROSSING GATE - -
 - EXISTING TRAFFIC SIGNAL - -
 - EXISTING TRAFFIC SIGNAL CONTROLLER - -
 - EXISTING HANDHOLE - -
 - EXISTING DOUBLE HANDHOLE - -
 - EXISTING MAST ARM BASE - -○
 - EXISTING DECIDUOUS TREE / SIZE - -XX"
 - EXISTING EVERGREEN TREE / SIZE - -XX"
 - EXISTING STUMP / SIZE - -XX"
 - EXISTING BUSH - -
 - EXISTING SHRUB - -
 - EXISTING TREE TO BE REMOVED - -XX"

- PROPOSED**
- PROPOSED GUY POLE - -○-
 - PROPOSED LIGHT POLE - -X
 - PROPOSED POWER POLE - -○-
 - PROPOSED TELEPHONE POLE - -○-
 - PROPOSED GUY WIRE - -←
 - PROPOSED TRANSMISSION TOWER - □
 - PROPOSED ELECTRIC SPLICE BOX - □^E
 - PROPOSED TELEPHONE SPLICE BOX - □^T
 - PROPOSED CABLE SPLICE BOX - □^{TV}
 - PROPOSED WATER HYDRANT - -FH
 - PROPOSED GAS METER - -G
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 - PROPOSED GUARD POST - -GP
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 - PROPOSED TRAFFIC SIGN - -
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 - PROPOSED TRAFFIC SIGNAL - -
 - PROPOSED TRAFFIC SIGNAL CONTROLLER - -
 - PROPOSED HANDHOLE - -
 - PROPOSED DOUBLE HANDHOLE - -
 - PROPOSED MAST ARM BASE - -○
 - PROPOSED DECIDUOUS TREE / SIZE - -XX"
 - PROPOSED EVERGREEN TREE / SIZE - -XX"
 - PROPOSED BUSH - -
 - PROPOSED PLANT - -
 - PROPOSED EDGE OF PAVEMENT ELEVATION - - + 512.00 EP
 - PROPOSED PAVEMENT ELEVATION - - + 505.50 P
 - PROPOSED CURB ELEVATION - - + 550.25 TC
 - PROPOSED SIDEWALK ELEVATION - - + 515.15 SW
 - PROPOSED FLOWLINE ELEVATION - - + 501.58 FL

SIDEWALK LEGEND

- - RAMP - MAX. SLOPE = 12:1 OR MAX. LENGTH REQUIRED = 15'
- - DETECTABLE WARNING
- L - LANDING - MIN. SIZE 4' X 4' MAX. SLOPE IN EITHER DIRECTION = 2.0%
- B - BLENDED TRANSITION - MAX. CROSS SLOPE = 2.0%, MAX. RUNNING SLOPE = 5.0%
- T - TRANSITION TO MEET EXISTING SIDEWALK
- P - PASSING SPACE - MIN. SIZE 5' X 5', MAX CROSS SLOPE = 2.0%

STANDARD LINE TYPE LEGEND



ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC	OL	OPEN LID
BK	BACK	PC	POINT OF CURVE
BM	BENCH MARK	PE	PRIVATE ENTRANCE
BVCE	BEGIN VERTICAL CURVE ELEVATION	PI	POINT OF INTERSECTION
BVCS	BEGIN VERTICAL CURVE STATION	PK	PK NAIL
C&G	CURB AND GUTTER	PP	POWER POLE
C/L	CENTER LINE	PRCF	PRECAST REINFORCED CONCRETE FLARED
CE	COMMERCIAL ENTRANCE	PT	POINT OF TANGENT
CI	CAST IRON	PVC	POINT OF VERTICAL CURVE
CL	CLOSED LID	R	RADIUS
CM	CONCRETE MONUMENT	RBR	REBAR
CMP	CORRUGATED METAL PIPE	RDMH	RESTRICTED DEPTH MANHOLE
CONC	CONCRETE	ROW	RIGHT OF WAY
CT	CRIMP TOP PIPE	RR	RAIL ROAD
CUYD	CUBIC YARD	RRPM	RAISED REFLECTIVE PAVEMENT MARKER
DE	DRAINAGE EASEMENT	RT	RIGHT
DIP	DUCTILE IRON PIPE	S	SOUTH
E	EAST	SE	SOUTHEAST
ELEV	ELEVATION	SL	SECTION LINE
EP	EDGE OF PAVEMENT	SS1	STORM SEWER TYPE 1
EQN STA	EQUATION STATION	SS2	STORM SEWER TYPE 2
ES	EDGE OF SHOULDER	SS3	STORM SEWER TYPE 3
FE	FIELD ENTRANCE	STA	STATION
FH	FIRE HYDRANT	SW	SOUTHWEST OR SIDEWALK
FL	FLOW LINE	TB	TRENCH BACKFILL
FT	FOOT	TBR	TO BE REMOVED
FWD	FORWARD	TC	TOP OF CURB
GP	GUARD POST	TCE	TEMPORARY CONSTRUCTION EASEMENT
HDPE	HIGH DENSITY POLYETHYLENE	TPM	TEMPORAY PAVEMENT MARKING
HMA	HOT-MIX ASPHALT	TPPM	THERMOPLASTIC PAVEMENT MARKING
IP	IRON PIPE	TUP	TEMPORARY USE PERMIT
LT	LEFT	TY	TYPE
MON	MONUMENT	TYP	TYPICAL
N	NORTH	VC	VERTICAL CURVE
NE	NORTHEAST	VCP	VITRIFIED CLAY PIPE
NW	NORTHWEST	W	WEST
O&C	OIL AND CHIP	WMA	WATER MAIN QUALITY

COMMITMENTS

- FOR SIDEWALK REMOVAL AT SE. CORNER OF STATE ST. AND ELM ST. THE CONTRACTOR SHALL SAW CUT FULL DEPTH AS CLOSE TO THE BUILDING AS THE SAW CUT FULL FOR THE FULL LENGTH OF REMOVAL ADJACENT TO BUILDING. EQUIPMENT MOUNTED PAVEMENT BREAKERS SHALL NOT BE USED BETWEEN THE BUILDING AND THE CURB. A HAND OPERATED JACK HAMMER AND EXCAVATOR SHALL BE USED FOR SIDEWALK REMOVAL BETWEEN THE SAW CUT AND CURB LINE. A SLEDGE HAMMER OR LIGHT WEIGHT CHIPPING HAMMER SHALL BE USED IMMEDIATELY ADJACENT TO THE BUILDING.

NOTES

- THE USE OF VIBRATORY ROLLERS WILL NOT BE PERMITTED ON THIS PROJECT. THIS DOES NOT RELIEVE THE CONTRACTOR OF DENSITY REQUIREMENTS FOR THE CONSTRUCTION OF THE BITUMINOUS PAVEMENTS AS SPECIFIED IN SECTIONS 406 AND 407 OF THE STANDARD SPECIFICATIONS.
- THE PLANS SHOW THE APPROXIMATE LOCATION OF KNOWN UTILITIES, BUT DO NOT SHOW HOUSE OR SERVICE CONNECTIONS. UTILITY INFORMATION PROVIDED IS BASED ON INFORMATION OBTAINED FROM UTILITY COMPANIES AND SHALL NOT BE CONSIDERED TO BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL USE ALL DUE PRECAUTION NOT TO DAMAGE OR DISTURB ANY UTILITIES AND THE ENTIRE COST OF MAKING REPAIRS TO, OR REPLACEMENT OF, ANY DAMAGED LINE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- PROPOSED ELEVATIONS SHOWN ON THE PLANS AS +/- ARE APPROXIMATE, EXACT ELEVATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. IF APPLICABLE, ELEVATIONS SHALL BE DETERMINED PRIOR TO FABRICATION OF THE DRAINAGE STRUCTURES.
- PLAN QUANTITIES FOR HOT-MIX ASPHALT ITEMS WERE CALCULATED BASED ON USING 112 LBS. / SQ. YD. / IN.
- UNLESS OTHERWISE PROVIDED FOR HEREIN, THE CONTRACTOR SHALL PROTECT AND RESTORE EXISTING TRAFFIC SIGNS IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. AT LOCATIONS WHERE NEW SIGNS REPLACE EXISTING SIGNS, THE CONTRACTOR SHALL REMOVE THE EXISTING SIGNS AND DELIVER THEM TO THE CITY OF ALTON STREET DEPARTMENT. THE COST OF THIS WORK WILL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL CONSTRUCTION ON THIS PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF THE "PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES" (PROWAG) WITHIN THE PEDESTRIAN ACCESS ROUTE (PAR). THE PAR IS A SPACE WITH A MINIMUM WIDTH OF 4 FEET WITHIN SIDEWALKS, CURB RAMPS, DRIVEWAY PAVEMENTS AND PAVEMENT SURFACE WITHIN CROSSWALKS.
- TEMPORARY RAMPS SHALL BE 3' LONG ON ROZIER ST. AND MATHER ST. ALL OTHER TEMPORARY RAMPS SHALL BE PER SECTION 406.08.
- THE CONTRACTOR SHALL BE AWARE THAT THERE ARE MANHOLES AND VALVES WITHIN THE RESURFACING LIMITS. CARE SHALL BE TAKEN IN THESE LOCATIONS DURING MILLING AND PAVING OPERATIONS. TEMPORARY RAMPS SURROUNDING THESE ITEMS SHALL BE INCLUDED WITH THE MILLING PAY ITEM.
- AT LOCATIONS WHERE CONCRETE CURB, TYPE B OR COMBINATION CONCRETE CURB AND GUTTER IS REMOVED AND REPLACED ADJACENT TO AREAS WHERE THE HOT MIX ASPHALT RESURFACING EXTENDS TO THE CURB, DEPRESSED CURBS FOR DRIVEWAYS OR CURB RAMPS SHALL BE PLACED AT THE PROPER HEIGHT REQUIRED TO MEET THE PROPOSED FINAL PAVEMENT SURFACE.
- THE OFFSETS FOR ALL ROUND INLETS AND MANHOLES ARE GIVEN TO THE CENTER OF THE OPENING REQUIRED FOR THE FRAME AND GRATE OR LID THAT IS SPECIFIED. THE OFFSETS FOR ALL SQUARE BOX INLETS AND SQUARE FLUSH INLETS ARE GIVEN TO THE CENTER OF THE BASE OF THE STRUCTURE.
- OPEN HOLES RESULTING FROM INLET WORK SHALL BE BACKFILLED AND COMPACTED IN LAYERS WITH TRENCH BACKFILL. AT LOCATIONS WHERE HOLES OR OVERDIG AREAS ARE NARROW AND IN THE OPINION OF THE ENGINEER PROPER COMPACTION WILL BE DIFFICULT TO ACHIEVE, THEN CONTROLLED LOW-STRENGTH MATERIAL SHALL BE USED.
- SIDEWALK REMOVAL AND REPLACEMENT SHALL BE SEQUENCED AS MUCH AS POSSIBLE TO ALWAYS ALLOW AN ACCESSIBLE ROUTE TO PRIVATE PROPERTY AND BUSINESSES.

MIX DESIGNS

MIXTURE USE	POLY SURFACE	POLY BINDER	INCIDENTAL
AC/PG	SBS PG 76-22	SBS PG 76-22	PG 64-22
MAX. RAP %	*	*	*
DESIGN AIR VOIDS	4% @ NDES = 50	4% @ NDES = 50	4% @ NDES = 50
MIX COMPOSITION (GRADATION MIXTURE)	IL-9.5	IL-9.5	----
FRICITION AGG.	MIX D	MIX C	MIX C

* SEE SPECIAL PROVISIONS

BENCHMARK INFORMATION

SITE BENCHMARK: TOP OF RAIL ROAD SPIKE IN A POWER POLE AT THE SW. CORNER OF STATE ST. AND ROZIER ST. (2356 STATE ST.). STA. 87+52.28, 22.66' LT. ELEV. = 646.65

SURVEY CONTROL POINTS

VERTICAL CONTROL (BENCH MARKS)				
BENCHMARK	LOCATION	ELEVATION	DESCRIPTION	
5	STA. 91+65.28, 33.73' LT.	646.93	TOP OF RAIL ROAD SPIKE, SW. COR. MATHER ST. AND STATE ST.	
8	STA. 99+13.14, 28.22 RT.	648.05	TOP OF RAIL ROAD SPIKE, SE. COR. ELM ST. AND STATE ST.	
12	STA. 100+65.41, 41.34 LT.	644.94	TOP OF RAIL ROAD SPIKE, NW. COR. DELMAR AVE. AND STATE ST.	
HORIZONTAL CONTROL				
CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	819939.42	2289184.57	645.85	TOP OF CUT CROSS
2	820404.67	2289184.57	646.64	TOP OF CUT CROSS
4	820193.43	2289233.46	646.28	TOP OF CUT CROSS
6	820592.42	2289284.69	648.35	TOP OF CUT CROSS
7	820781.74	2289271.16	647.68	TOP OF CUT CROSS
9	820838.03	2289416.57	645.04	TOP OF CUT CROSS
10	821007.09	2289395.65	646.88	TOP OF CONTROL POINT CAP
11	821174.84	2289416.46	647.37	TOP OF CONTROL POINT CAP
13	821229.58	2289246.80	644.23	TOP OF CONTROL POINT CAP
14	820404.63	2289184.57	632.24	TOP OF CUT CROSS

* ELEVATIONS SHOULD BE CHECKED FROM A BENCHMARK.

REVISIONS

SMS Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 215 Market Street, Alton, IL 62002. P: 618-462-9755 E-mail: mail@smsengineers.com
 DESIGN FIRM # 184-000992

CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 GENERAL NOTES, LEGENDS & CONTROL POINTS

CONTRACT NO. 97725

REF. BK. PG.
 JOB NO. 409793.1
 DSN. BY: DEG
 DWN. BY: CDP
 CHK. BY: DEG
 DATE: JANUARY, 2020

SCALE: NONE

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE		0005	
CODE NO.	ITEM	UNIT	QUANTITY
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	20
20800150	TRENCH BACKFILL	CU YD	1
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	40
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2,674
40600990	TEMPORARY RAMP	SQ YD	466
40603215	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50	TON	999
40604110	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "D", N50	TON	999
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	113
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	23
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	55
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	4,228
42400800	DETECTABLE WARNINGS	SQ FT	272
44000100	PAVEMENT REMOVAL	SQ YD	204
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	11,884
44000300	CURB REMOVAL	FOOT	327
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	126
44000600	SIDEWALK REMOVAL	SQ FT	3,746
44200140	PAVEMENT PATCHING, TYPE I, 12 INCH	SQ YD	17
44200144	PAVEMENT PATCHING, TYPE II, 12 INCH	SQ YD	112
44200148	PAVEMENT PATCHING, TYPE III, 12 INCH	SQ YD	46
44200150	PAVEMENT PATCHING, TYPE IV, 12 INCH	SQ YD	165
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	323
* 50901760	PIPE HANDRAIL	FOOT	54.7
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	7

CONSTRUCTION TYPE CODE		0005	
CODE NO.	ITEM	UNIT	QUANTITY
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	10
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	1
60255500	MANHOLES TO BE ADJUSTED	EACH	1
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1
60500060	REMOVING INLETS	EACH	1
60600605	CONCRETE CURB, TYPE B	FOOT	334
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	124
60604900	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 (VARIABLE WIDTH GUTTER FLAG)	FOOT	16.3
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	73
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	55
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	3
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	4
67100100	MOBILIZATION	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1,416
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	472
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	312
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	6,989
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	303
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	381
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	610
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	720

REVISIONS									
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 215 Market Street, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
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CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 SUMMARY OF QUANTITIES

CONTRACT NO.	97725
REF. BK.	PG.
JOB NO.	409793.1
DSN. BY:	DEG
DWN. BY:	CDP
CHK. BY:	DEG
DATE:	JANUARY, 2020
SCALE:	NONE


SUMMARY OF QUANTITIES

		CONSTRUCTION TYPE CODE		0005	
	CODE NO.	ITEM	UNIT	QUANTITY	
*	72000100	SIGN PANEL - TYPE 1	SQ FT	138.25	
	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	10	
*	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	232.2	
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	312	
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6,989	
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	303	
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	381	
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	610	
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	720	
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	56	
*	78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	66	
*	78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	15	
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	41	
*	78200020	CURB REFLECTORS	EACH	32	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4	
*	80300100	LOCATING UNDERGROUND CABLE	FOOT	200	
*	81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	184	
*	81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	10	
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	552	
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	300	
*	87601100	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	1	
*	87900200	DRILL EXISTING HANDHOLE	EACH	6	
*	88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2	
*	88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2	

		CONSTRUCTION TYPE CODE		0005	
	CODE NO.	ITEM	UNIT	QUANTITY	
*	88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2	
*	88200100	TRAFFIC SIGNAL BACKPLATE	EACH	4	
*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	2,737	
*	88800100	PEDESTRIAN PUSH-BUTTON	EACH	16	
*	89502200	MODIFY EXISTING CONTROLLER	EACH	1	
*	89502380	REMOVE EXISTING HANDHOLE	EACH	6	
	X0323389	STORM SEWER CONNECTION	EACH	1	
	X0326458	PAVEMENT REPLACEMENT, SPECIAL	SQ YD	120	
	X0931400	INLET BOXES TO BE ADJUSTED (SPECIAL)	EACH	1	
*	X1400031	REMOVE PEDESTRIAN PUSH-BUTTON	EACH	14	
	X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	110	
	X5510100	STORM SEWER REMOVAL	FOOT	5	
	X6025600	MANHOLES TO BE ADJUSTED (SPECIAL)	EACH	11	
	X6062400	CONCRETE GUTTER (SPECIAL)	FOOT	58	
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	
	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	5,097	
*	X8130125	REMOVE EXISTING JUNCTION BOX	EACH	1	
*	X8140230	HANDHOLE, COMPOSITE CONCRETE (SPECIAL)	EACH	6	
*	X8950305	REMOVE EXISTING SIGNAL HEAD	EACH	4	
	Z0012450	CONCRETE STEPS	CU YD	0.33	
	Z0019307	HOLES DRILLED	EACH	8	
*	Z0036200	PAINT CURB	FOOT	246	
	XZ127902	RETAINING WALL, SPECIAL	SQ FT	47	

* DENOTES SPECIALTY ITEM

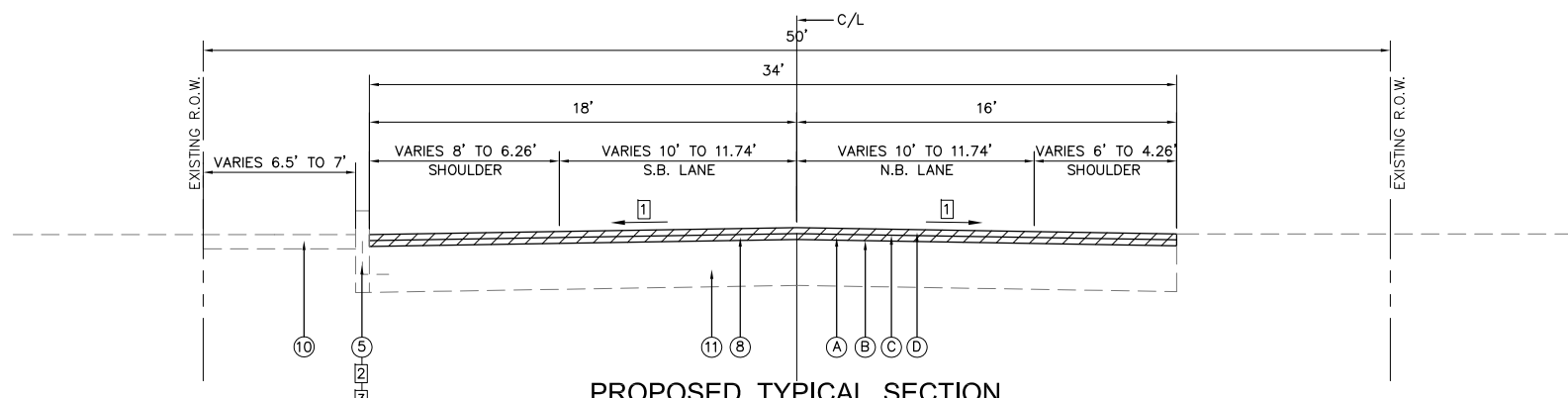
REVISIONS									
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SMS ENGINEERS
 Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 215 Market Street, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
 DESIGN FIRM # 184-000992

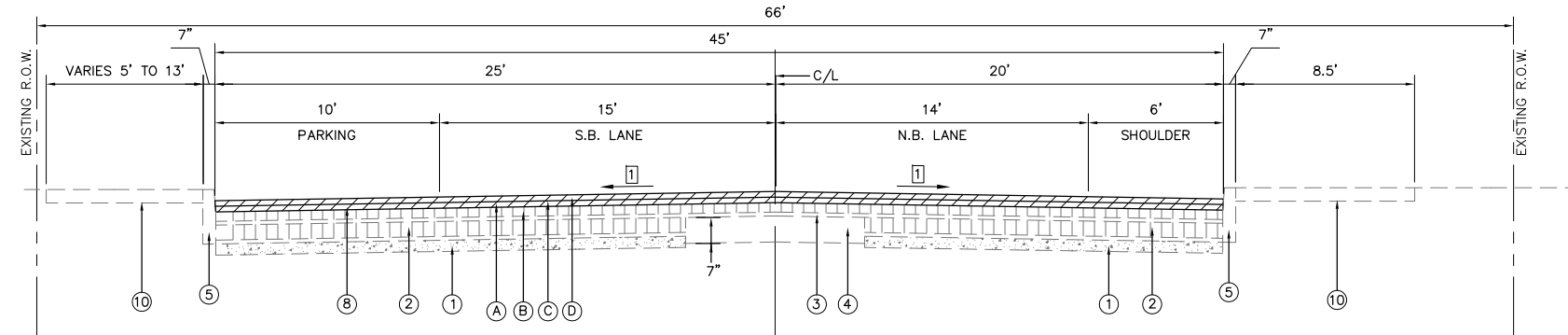
CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 SUMMARY OF QUANTITIES

CONTRACT NO.		97725
REF. BK.	PG.	
JOB NO.	409793.1	
DSN. BY:	DEC	
DWN. BY:	CDP	
CHK. BY:	DEC	
DATE:	JANUARY, 2020	
SCALE:		NONE
SHEET	4	OF 28

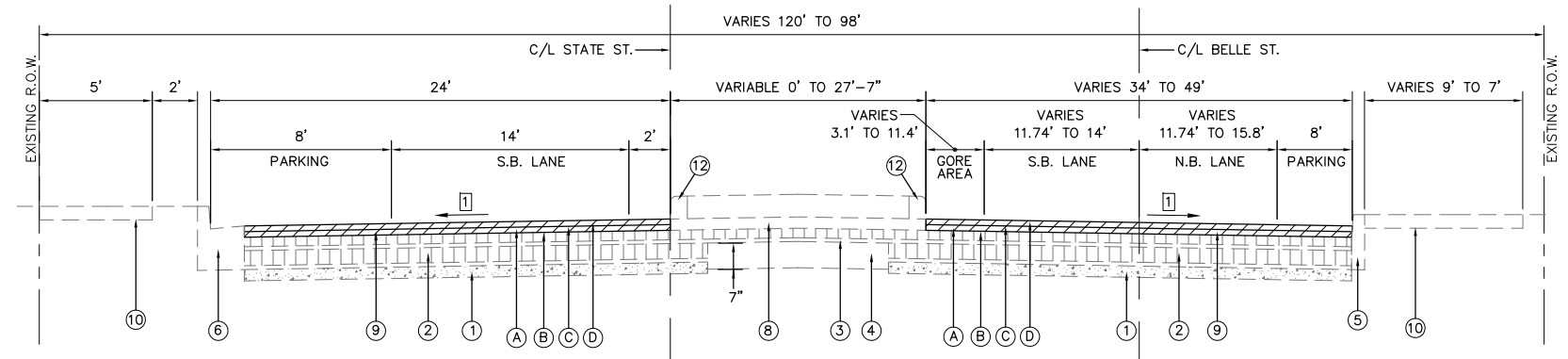
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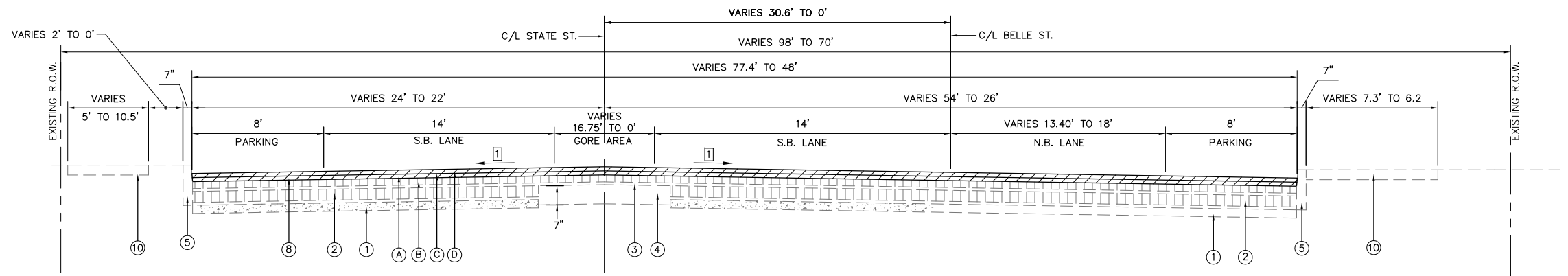
**PROPOSED TYPICAL SECTION
BELLE STREET**
STA. 33+00 TO STA. 33+61



**PROPOSED TYPICAL SECTION
STATE STREET**
STA. 85+65.83 TO STA. 87+53



**PROPOSED TYPICAL SECTION
STATE STREET AND BELLE STREET**
STATE ST. = STA. 87+53 TO STA. 88+79
BELLE ST. = STA. 33+61 TO STA. 35+53



**PROPOSED TYPICAL SECTION
STATE STREET AND BELLE STREET**
STATE ST. = STA. 88+79 TO STA. 90+83.53
BELLE ST. = STA. 35+53 TO STA. 37+52.97

PAVING LEGEND

- ① EXISTING MACADAM BASE (4")
- ② EXISTING 4" BRICK ON 1" SAND CUSHION
- ③ EXISTING 2-1/2" BRICK ON 1" MASTIC CUSHION
- ④ EXISTING P.C.C. BASE COURSE
- ⑤ EXISTING CONCRETE CURB, TYPE B W/ TIE BARS
- ⑥ EXISTING C.C.C. & G. TYPE B-6.18
- ⑦ EXISTING P.C.C. PAVEMENT (10"-8"-10")
- ⑧ EXISTING HMA SURFACE, 3"
- ⑨ EXISTING HMA SURFACE, VARIES 3" TO 4-1/2"
- ⑩ EXISTING P.C.C. SIDEWALK
- ⑪ EXISTING P.C.C. PAVEMENT, 8"
- ⑫ EXISTING CONCRETE CURB, SPECIAL DOWELED
- A PROPOSED HMA SURFACE REMOVAL, 3" SHOWN AS [Hatched Pattern]
- B PROPOSED BITUMINOUS MATERIALS (TACK COAT) (SSI-VH)
- C PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD) N70, 1-1/2"
- D PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "D", N70, 1-1/2"
- E PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT, 24"

TYPICAL SECTION NOTES

- 1 MATCH EXISTING CROSS SLOPE WHICH IS 1.5% TO 2.0%
- 2 SEE PLANS FOR LOCATIONS TO BE REMOVED AND REPLACED.
- 3 24" TIE BARS DRILLED AND GROUTED AT 24" CTS. TIE BARS IN CONCRETE CURB, TYPE B SHALL BE "L" BARS ROTATED TO PROVIDE 3" OF CLEARANCE

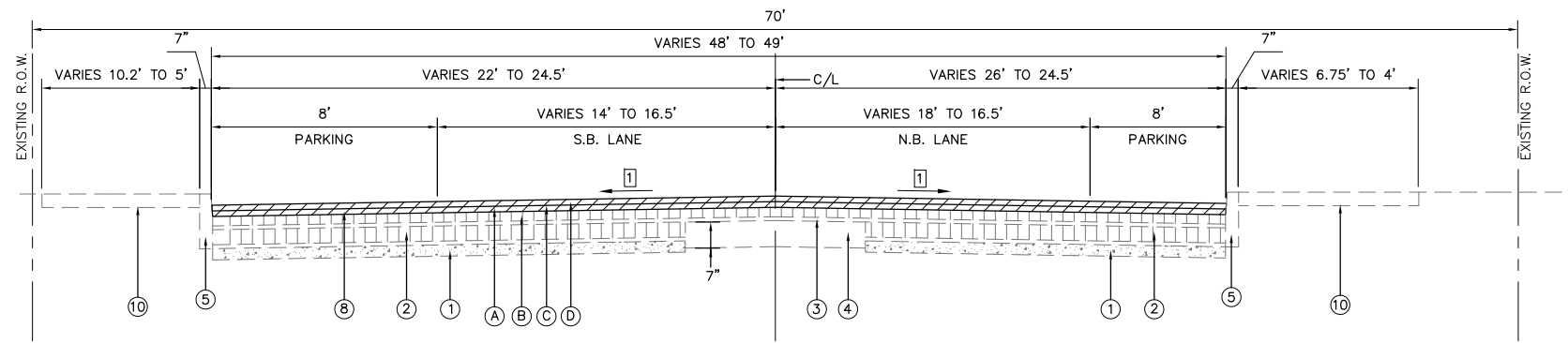
REVISIONS	

SMS Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
ENGINEERS
215 Market Street, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
 DESIGN FIRM # 184-000992

CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 TYPICAL SECTIONS

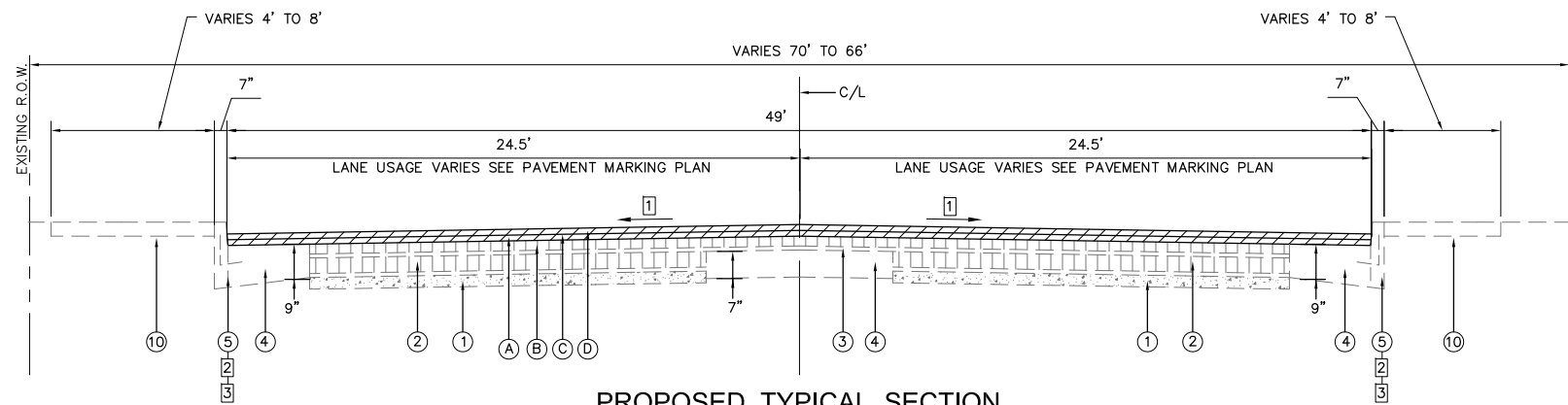
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STATE ST TYP.DWG	
REF. BK.	PG.
JOB NO. 409793.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: JANUARY, 2020	
SCALE: NONE	
SHEET	5 OF 28

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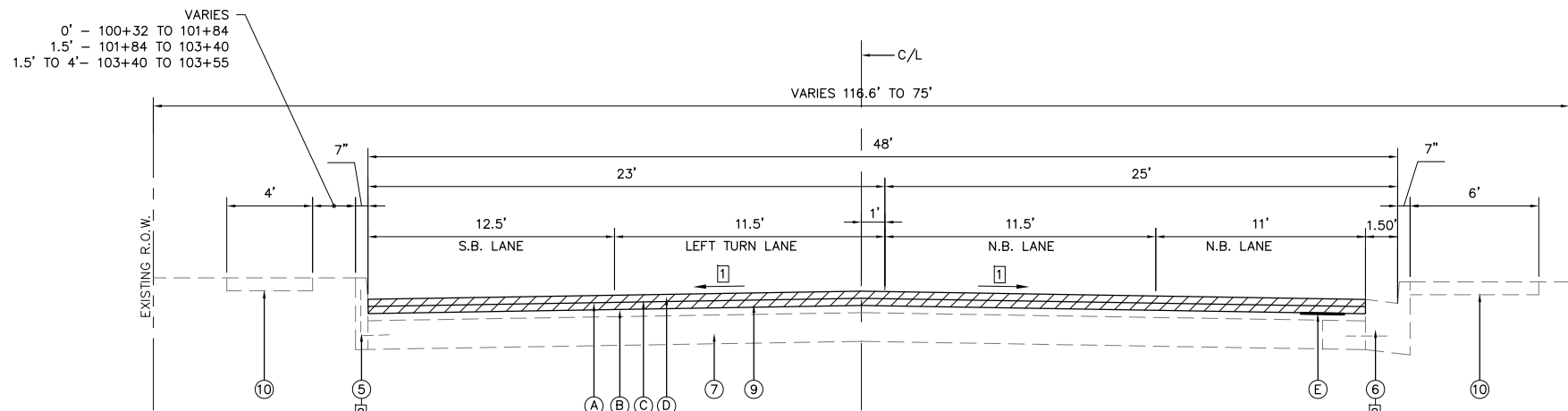
**PROPOSED TYPICAL SECTION
STATE STREET**

STA. 90+83.53 TO STA. 91+77.01



**PROPOSED TYPICAL SECTION
STATE STREET**

STA. 91+77.01 TO STA. 100+32.37



**PROPOSED TYPICAL SECTION
GODFREY ROAD**

STA. 100+32.37 TO STA. 103+55

PAVING LEGEND

- ① EXISTING MACADAM BASE (4")
- ② EXISTING 4" BRICK ON 1" SAND CUSHION
- ③ EXISTING 2-1/2" BRICK ON 1" MASTIC CUSHION
- ④ EXISTING P.C.C. BASE COURSE
- ⑤ EXISTING CONCRETE CURB, TYPE B W/ TIE BARS
- ⑥ EXISTING C.C.C. & G. TYPE B-6.18
- ⑦ EXISTING P.C.C. PAVEMENT (10"-8"-10")
- ⑧ EXISTING HMA SURFACE, 3"
- ⑨ EXISTING HMA SURFACE, VARIES 3" TO 4-1/2"
- ⑩ EXISTING P.C.C. SIDEWALK
- ⑪ EXISTING P.C.C. PAVEMENT, 8"
- ⑫ EXISTING CONCRETE CURB, SPECIAL DOWELED
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- B PROPOSED BITUMINOUS MATERIALS (TACK COAT) (SSI-VH)
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REVISIONS	

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DESIGN FIRM # 184-000992

CITY OF ALTON, ILLINOIS
SECTION 16-00238-00-RS
STATE STREET
TYPICAL SECTIONS

CONTRACT NO. 97725	
STATE ST TYP.DWG	
REF. BK.	PG.
JOB NO. 409793.1	
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DWN. BY: CDP	
CHK. BY: DEG	
DATE: JANUARY, 2020	
SCALE: NONE	
SHEET	6 OF 28

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PAVEMENT PATCHING SCHEDULE									
STATION TO STATION		LANE	LENGTH (FEET)	WIDTH (FEET)	PAVEMENT PATCHING, 12 INCH (SQ. YD.)				COMMENTS
					TYPE I	TYPE II	TYPE III	TYPE IV	
STATE STREET									
91+62	91+95	SB THRU	33	12					44.0
92+04	92+11	SB THRU	7	12		9.3			
92+25	92+42.5	NB PKG LN	17.5	5.5		10.7			
92+55	92+74	NB PKG LN	19	5.5		11.6			
93+08	93+19	SB THRU	11	11		13.4			
93+34	93+98	SB THRU	64	9				64.0	
96+16	96+30	SB THRU	14	11			17.1		
96+32	96+37	SB THRU	5	5	2.8				
98+87	99+11	SB THRU	24	14				37.3	
100+48	100+58	SB THRU	10	7		7.8			
101+10	101+14.5	SB THRU	4.5	12		6.0			
101+10	101+14.5	SBLT	4.5	12		6.0			
101+34	101+38	SBLT	4	12		5.3			
101+96	102+00	NBOL	4	12		5.3			
102+00	102+08	SB THRU	8	15		13.3			
102+77	102+82.5	NBOL	5.5	12		7.3			
102+88	102+92	SB THRU	4	14		6.2			
MATHER STREET (WEST)									
0+33	0+37	EB	4	10.5	4.7				
0+33	0+37	WB	4	10.5	4.7				
DELMAR AVE. (WEST)									
917+28	917+82	WB	54	4				24.0	
ADDITIONAL ALLOWANCE:					5	10	5	20	
TOTALS:					17	112	46	165	

SB THRU - SOUTH BOUND THRU LANE
 NBOL - NORTH BOUND OUTSIDE LANE
 NB PKG LN - NORTH BOUND PARKING LANE
 EB - EAST BOUND
 WB - WEST BOUND
 SBTL - SOUTH BOUND TURN LANE

STRUCTURES TO BE ADJUSTED SCHEDULE						
STATION	TYPE	MANHOLES TO BE ADJUSTED W/ NEW TY. 1 FRAME, CLOSED LID (EACH)	MANHOLES TO BE ADJUSTED (EACH)	MANHOLES TO BE ADJUSTED (SPECIAL)* (EACH)	INLET BOXES TO BE ADJUSTED (SPECIAL) (EACH)	NOTES
BELLE ST.						
34+33 RT	SANITARY		1			IN CONCRETE CROSSWALK
34+44 RT	STORM			1		
STATE ST.						
87+78 LT	SANITARY			1		
88+02 LT	STORM	1				IN SIDEWALK
91+86 LT	SANITARY			1		
91+87 LT	STORM			1		
91+89 LT	STORM			1		
93+12 LT	STORM			1		
96+30 LT	SANITARY			1		
96+36 LT	STORM			1		
96+54 LT	STORM			1		
99+94 LT	STORM			1		
100+02 RT	STORM				1	
100+05 LT	SANITARY			1		
TOTALS:		1	1	11	1	

* SEE PLAN DETAIL IN THE CONSTRUCTION DETAILS

REVISIONS									
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 715 Market Street, Alton, IL 62002 6184624755 E-mail: mail@smsengineers.com
 DESIGN FIRM # 184-000992

CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 SCHEDULES

CONTRACT NO.
97725

REF. BK. PG.
 JOB NO. 409793.1
 DSN. BY: DEG
 DWN. BY: CDP
 CHK. BY: DEG
 DATE: JANUARY, 2020

SCALE: NONE

SHEET 8 OF 28

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SIGNING SCHEDULE						
LOCATION STATION	LEGEND OR TYPE	MUTCD SIGN DESIGNATION	SIZE W X H (INCHES)	SIGN PANEL TYPE 1 (SQ. FT.)	TELESCOPING STEEL SIGN SUPPORT (FOOT)	HOLES DRILLED (EACH)
STATE ST.						
85+73 RT.	PEDESTRIAN	W11-2 (FYG)	36" X 36"	9	18.2	1
	"AHEAD"	W16-9P (FYG)	24" X 12"	2		
87+41 RT.	PEDESTRIAN	W11-2 (FYG)	36" X 36"	9	18.2	1
	DOWNWARD DIAGONAL ARROW	W16-7P (FYG)	24" X 12"	2		
87+50 LT.	PEDESTRIAN	W11-2 (FYG)	36" X 36"	9	18.2	1
	DOWNWARD DIAGONAL ARROW	W16-7P (FYG)	24" X 12"	2		
87+98 RT.	"KEEP RIGHT"	R4-7B	24" X 30"	5	15.5	
88+75 RT.	LANE SPLIT	W12-1	30" X 30"	6.25	16.5	
89+16 LT.	PEDESTRIAN	W11-2 (FYG)	36" X 36"	9	18.2	
	"AHEAD"	W16-9P (FYG)	24" X 12"	2		
90+17 RT.	PEDESTRIAN	W11-2 (FYG)	36" X 36"	9	18.2	1
	"AHEAD"	W16-9P (FYG)	24" X 12"	2		
92+02 RT.	PEDESTRIAN	W11-2 (FYG)	36" X 36"	9	18.2	
	DOWNWARD DIAGONAL ARROW	W16-7P (FYG)	24" X 12"	2		
92+04 LT.	PEDESTRIAN	W11-2 (FYG)	36" X 36"	9	18.2	1
	DOWNWARD DIAGONAL ARROW	W16-7P (FYG)	24" X 12"	2		
93+67 LT	PEDESTRIAN	W11-2 (FYG)	36" X 36"	9	18.2	1
	"AHEAD"	W16-9P (FYG)	24" X 12"	2		
AT ELM ST.	PEDESTRIAN INSTRUCTION SIGNS	R10-3	9" X 12"	6		
BELLE ST.						
31+90 RT.	PEDESTRIAN	W11-2 (FYG)	36" X 36"	9	18.2	
	"AHEAD"	W16-9P (FYG)	24" X 12"	2		
33+90 RT.	PEDESTRIAN	W11-2 (FYG)	36" X 36"	9	18.2	1
	DOWNWARD DIAGONAL ARROW	W16-7P (FYG)	24" X 12"	2		
34+14 LT.	PEDESTRIAN	W11-2 (FYG)	36" X 36"	9	18.2	1
	DOWNWARD DIAGONAL ARROW	W16-7P (FYG)	24" X 12"	2		
35+25 LT.	PEDESTRIAN	W11-2 (FYG)	36" X 36"	9	18.2	
	"AHEAD"	W16-9P (FYG)	24" X 12"	2		
TOTAL				138.25	232.2	8

SIGN SCHEDULE NOTES

1. ALL SIGNS SHALL BE LOCATED PER HIGHWAY STANDARD 720006 UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. ALL PEDESTRIAN SIGNS SHALL BE FLUORESCENT YELLOW-GREEN (FYG) COLOR AND TYPE "AZ" SHEETING.

RAISED REFLECTIVE PAVEMENT MARKER (RRPM) & CURB REFLECTOR SCHEDULE						
LOCATION	RRPM'S			CURB REFLECTORS		NOTES
	AMBER		CRYSTAL	AMBER	CRYSTAL	
	ONE-WAY (EACH)	TWO-WAY (EACH)	ONE-WAY (EACH)			
BELLE ST.						
STA. 33+00 TO STA. 37+40 C/L		12				40' CTS.
STA. 34+60 TO STA. 36+14 LT.			8			FACING NORTH
STATE ST.						
STA. 85+85 TO STA. 87+45 C/L		5				40' CTS.
STA. 87+63 TO STA. 88+23 RT.	4					20' CTS. / FACING SOUTH
STA. 87+63 TO STA. 88+63 LT.	6					20' CTS. / FACING NORTH
STA. 88+83 TO STA. 89+43 LT.			4			20' CTS. / FACING NORTH
STA. 91+10 TO STA. 91+50 C/L		2				40' CTS.
LARGE ISLAND @ ROZIER ST.				6	17	
SMALL ISLAND @ ROZIER ST.					9	
SUB-TOTAL:	10	19	12	6	26	
TOTAL:		41		32		

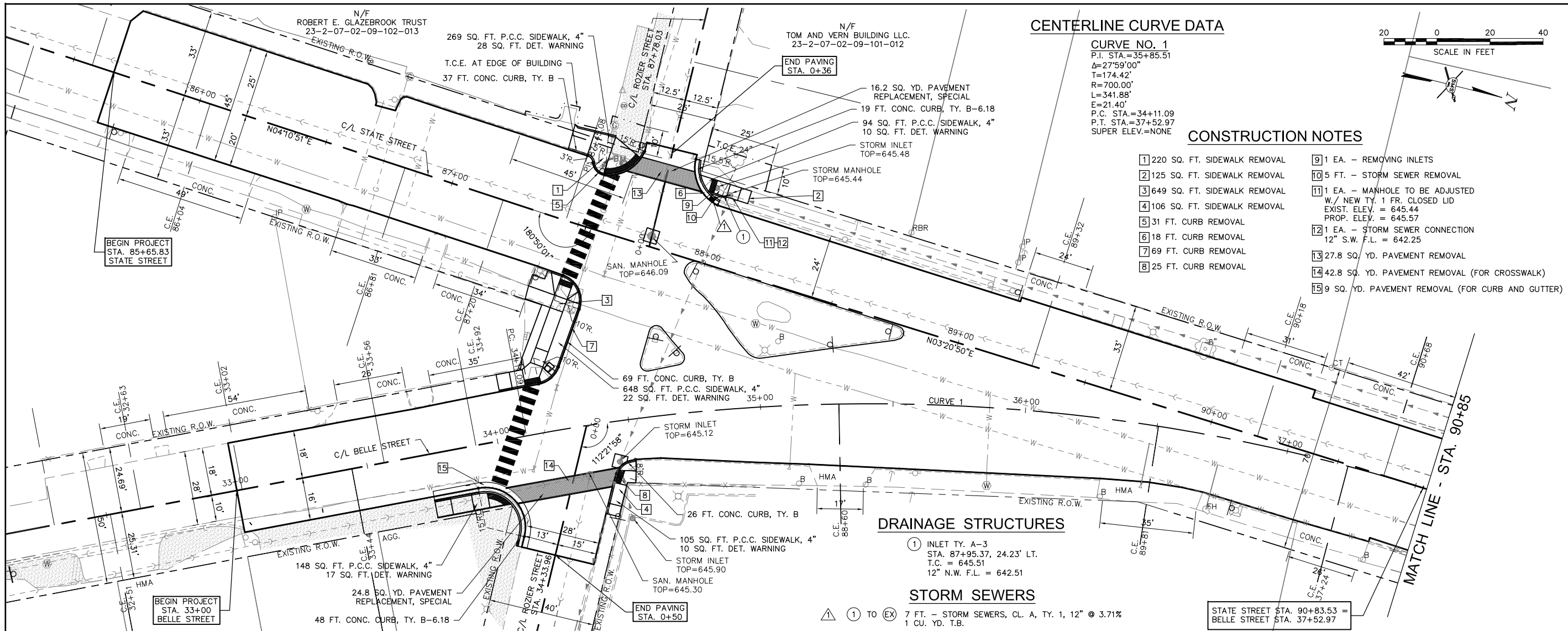
PAVEMENT MARKING SCHEDULE		
ITEM	QUANTITY	UNIT
SHORT TERM PAVEMENT MARKING	1,416	FOOT
SHORT TERM PAVEMENT MARKING REMOVAL	472	FOOT
THERMOPLASTIC PAVEMENT MARKING – LINE 4" (WHITE)	2,912	FOOT
THERMOPLASTIC PAVEMENT MARKING – LINE 4" (YELLOW)	4,077	FOOT
TOTAL 4"	6,989	FOOT
THERMOPLASTIC PAVEMENT MARKING – LINE 6" (WHITE)	303	FOOT
THERMOPLASTIC PAVEMENT MARKING – LINE 8" (WHITE)	340	FOOT
THERMOPLASTIC PAVEMENT MARKING – LINE 8" (YELLOW)	41	FOOT
TOTAL 8"	381	FOOT
THERMOPLASTIC PAVEMENT MARKING – LINE 12" (WHITE)	569	FOOT
THERMOPLASTIC PAVEMENT MARKING – LINE 12" (YELLOW)	41	FOOT
TOTAL 12"	610	FOOT
THERMOPLASTIC PAVEMENT MARKING – LINE 24" (WHITE)	720	FOOT
THERMOPLASTIC PAVEMENT MARKING – LETTERS AND SYMBOLS (WHITE)	312	SQ. FT.
PAINT PAVEMENT MARKING – LINE 4" (YELLOW)	56	FOOT
PAINT PAVEMENT MARKING – LINE 6" (WHITE)	66	FOOT
PAINT PAVEMENT MARKING – LINE 12" (WHITE)	15	FOOT
PAINT CURB (WHITE)	193	FOOT
PAINT CURB (YELLOW)	53	FOOT
TOTAL PAINT CURB	246	FOOT
TEMPORARY PAVEMENT MARKING REMOVAL	5,097	SQ. FT.

REVISIONS									
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215 Market Street, Alton, IL 62002 6184624755 E-mail: mail@smsengineers.com
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CITY OF ALTON, ILLINOIS
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 STATE STREET
 SCHEDULES

CONTRACT NO. 97725	
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DSN. BY: DEG	
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CHK. BY: DEG	
DATE: JANUARY, 2020	
SCALE: NONE	
SHEET 9	OF 28



CENTERLINE CURVE DATA

CURVE NO. 1
 P.I. STA. = 35+85.51
 Δ = 27°59'00"
 T = 174.42'
 R = 700.00'
 L = 341.88'
 E = 21.40'
 P.C. STA. = 34+11.09
 P.T. STA. = 37+52.97
 SUPER. ELEV. = NONE

CONSTRUCTION NOTES

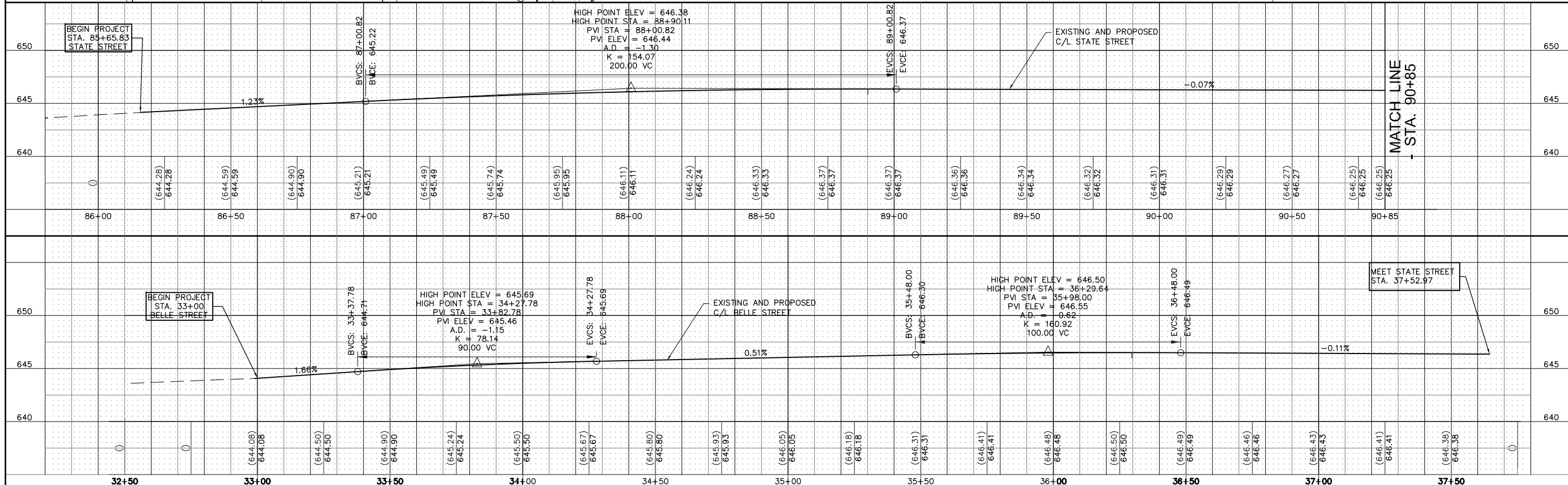
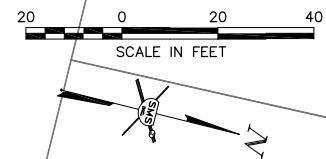
- 1 220 SQ. FT. SIDEWALK REMOVAL
- 2 125 SQ. FT. SIDEWALK REMOVAL
- 3 649 SQ. FT. SIDEWALK REMOVAL
- 4 106 SQ. FT. SIDEWALK REMOVAL
- 5 31 FT. CURB REMOVAL
- 6 18 FT. CURB REMOVAL
- 7 69 FT. CURB REMOVAL
- 8 25 FT. CURB REMOVAL
- 9 1 EA. - REMOVING INLETS
- 10 5 FT. - STORM SEWER REMOVAL
- 11 1 EA. - MANHOLE TO BE ADJUSTED W./ NEW TY. 1 FR. CLOSED LID EXIST. ELEV. = 645.44 PROP. ELEV. = 645.57
- 12 1 EA. - STORM SEWER CONNECTION 12" S.W. F.L. = 642.25
- 13 27.8 SQ. YD. PAVEMENT REMOVAL
- 14 42.8 SQ. YD. PAVEMENT REMOVAL (FOR CROSSWALK)
- 15 9 SQ. YD. PAVEMENT REMOVAL (FOR CURB AND GUTTER)

DRAINAGE STRUCTURES

- 1 INLET TY. A-3 STA. 87+95.37, 24.23' LT. T.C. = 645.51 12" N.W. F.L. = 642.51

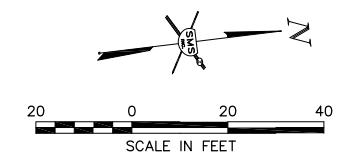
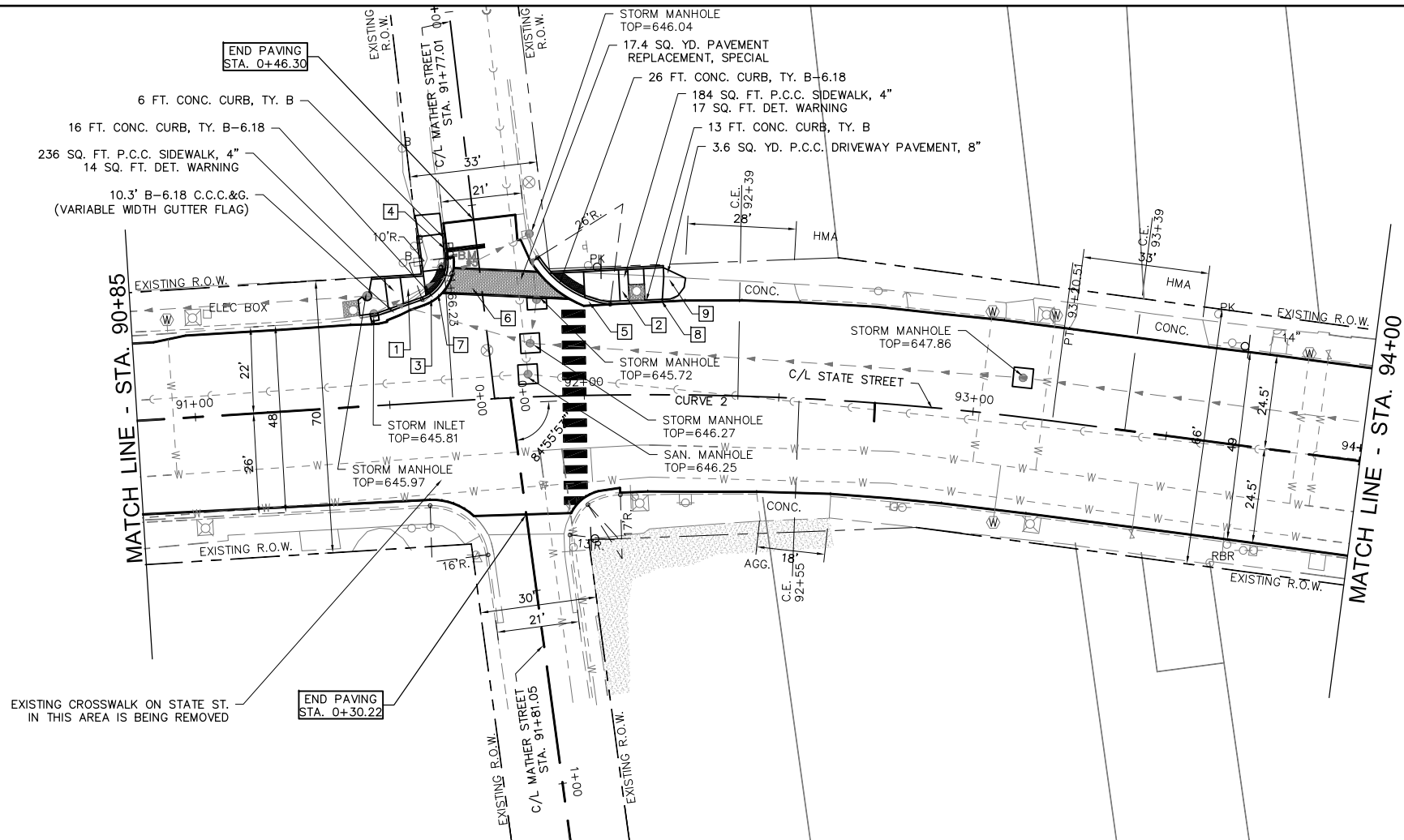
STORM SEWERS

- 1 TO EX 7 FT. - STORM SEWERS, CL. A, TY. 1, 12" @ 3.71% 1 CU. YD. T.B.



REVISIONS
 SHEPPARD, MORGAN & SCHWAAB, INC.
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 DESIGN FIRM # 184-000992
SMS ENGINEERS

CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 PLAN AND PROFILE
 CONTRACT NO. 97725
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 DSN. BY: DEG
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 CHK. BY: DEG
 DATE: JANUARY, 2020
 SCALE: 1" = 20'
 SHEET 10 OF 28



CENTERLINE CURVE DATA

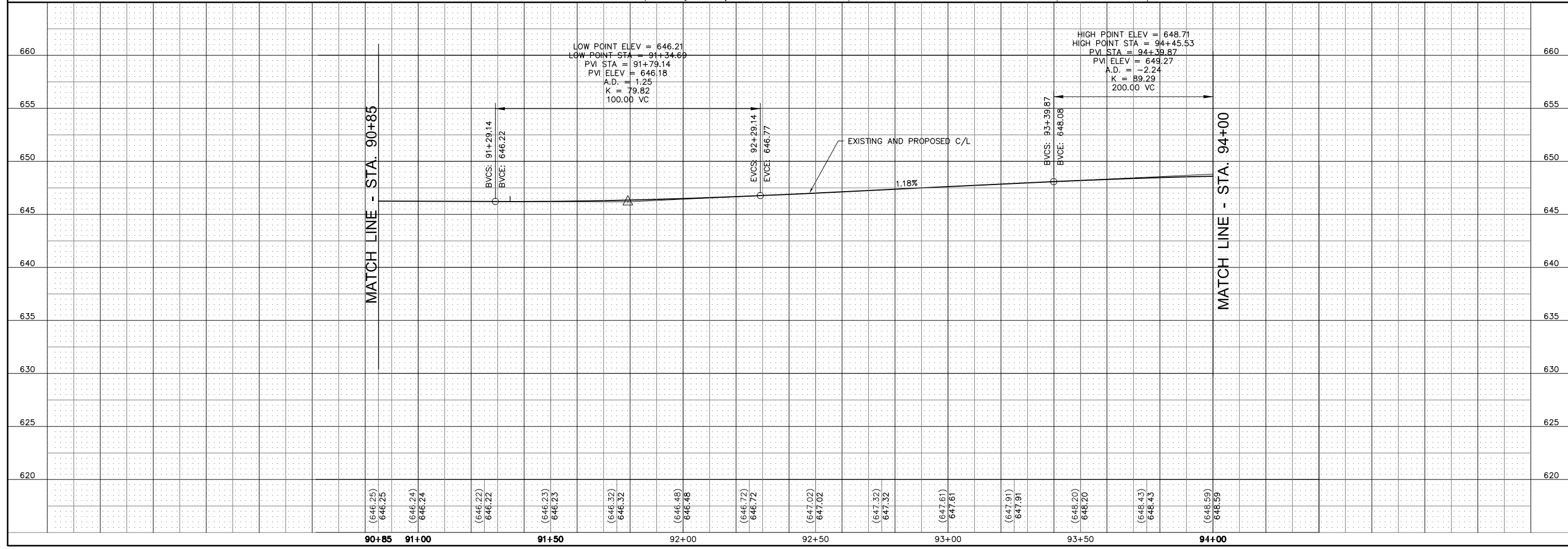
CURVE NO. 2
 P.I. STA.=92+43.61
 Δ=11°02'58"
 T=77.38'
 R=800'
 L=154.28'
 E=3.73'
 P.C. STA.=91+66.23
 P.T. STA.=93+20.51
 SUPER ELEV.=NONE

CONSTRUCTION NOTES

- 1 206 SQ. FT. SIDEWALK REMOVAL
- 2 158 SQ. FT. SIDEWALK REMOVAL
- 3 26 FT. C.C.C.&G. REMOVAL
- 4 6 FT. CURB REMOVAL
- 5 26 FT. C.C.C.&G. REMOVAL
- 6 29.9 SQ. YD. PAVEMENT REMOVAL (FOR CROSSWALK)
- 7 2.1 SQ. YD. PAVEMENT REMOVAL (FOR CURB AND GUTTER)
- 8 13 FT. CURB REMOVAL
- 9 3.7 SQ. YD. PAVEMENT REMOVAL (FOR DRIVEWAY)

NO.	REVISIONS

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 Sheppard, Morgan & Schwab, Inc.
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 215 Market Street, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
 DESIGN FIRM # 184-000992



CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 PLAN AND PROFILE

CONTRACT NO.
 97725

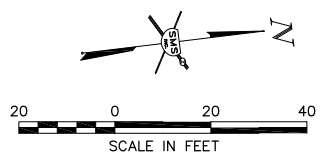
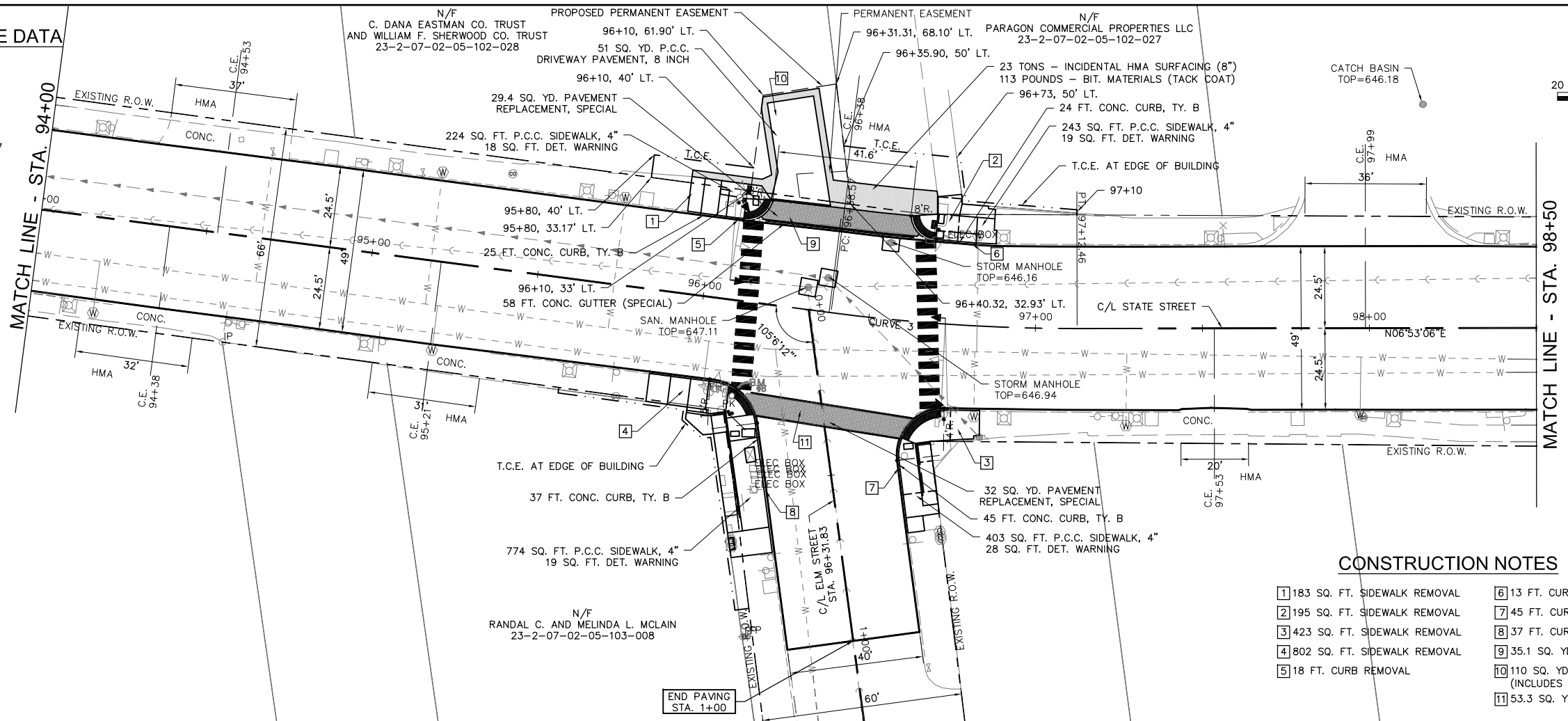
REF. BK.	PG.
JOB NO. 409793.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: JANUARY, 2020	

SCALE: 1" = 20'

SHEET 11 OF 28

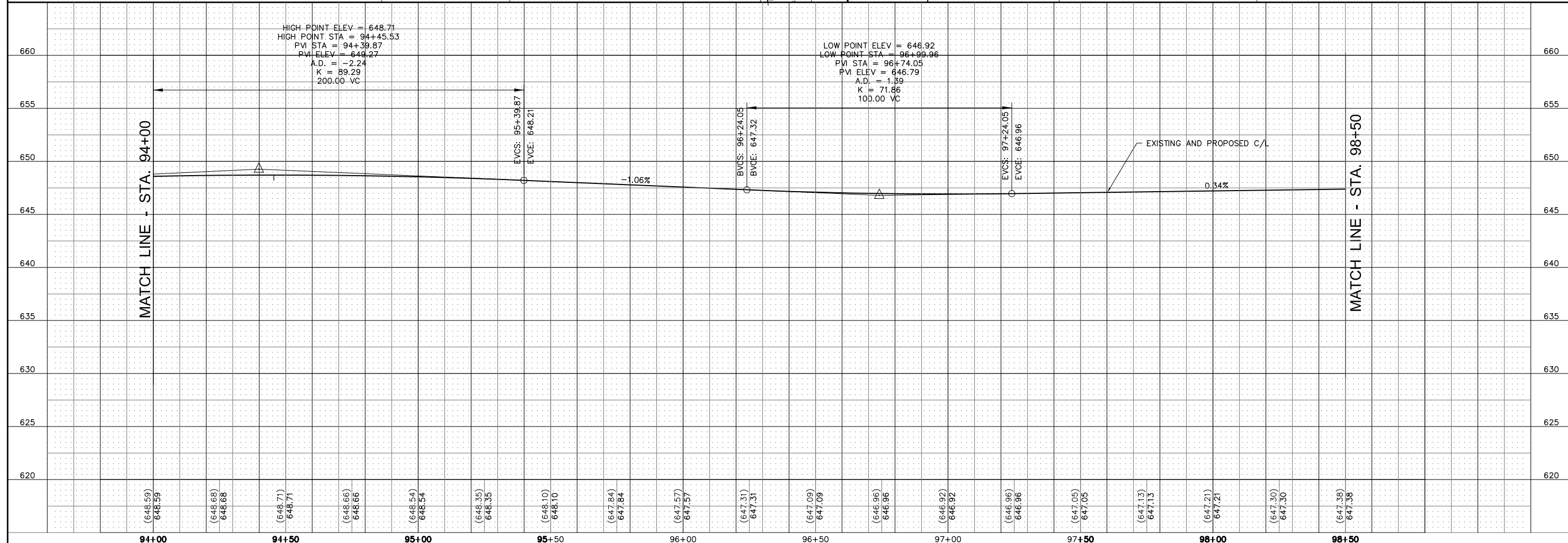
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CURVE NO. 3
 P.I. STA.=96+75.57
 Δ=07°30'42"
 T=37.00'
 R=563.61'
 L=73.89'
 E=1.21'
 P.C. STA.=96+38.57
 P.T. STA.=97+12.46
 SUPER ELEV.=NONE



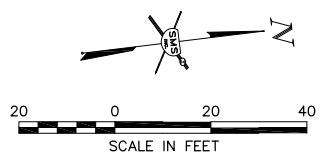
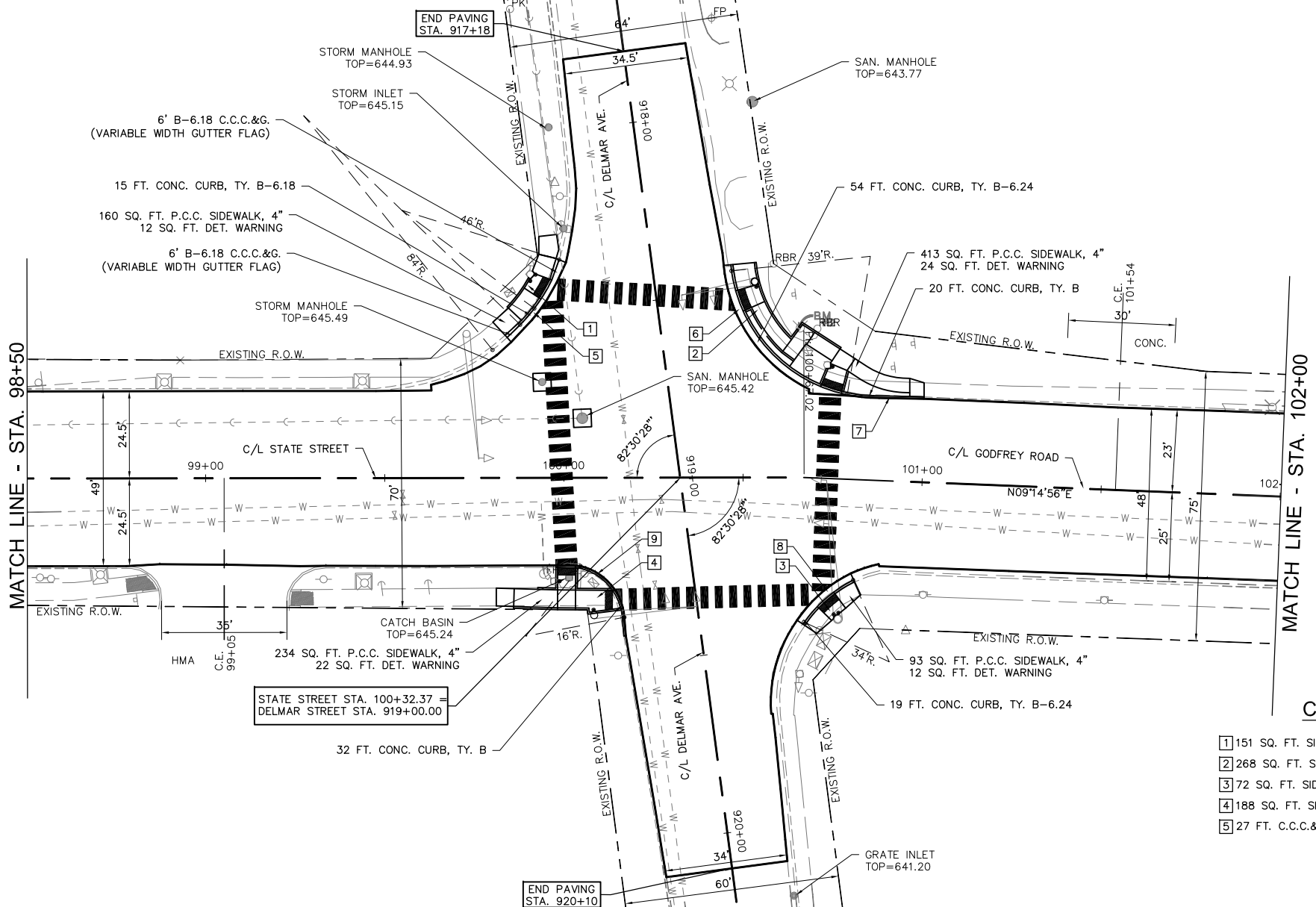
CONSTRUCTION NOTES

- 1] 183 SQ. FT. SIDEWALK REMOVAL
- 2] 195 SQ. FT. SIDEWALK REMOVAL
- 3] 423 SQ. FT. SIDEWALK REMOVAL
- 4] 802 SQ. FT. SIDEWALK REMOVAL
- 5] 18 FT. CURB REMOVAL
- 6] 13 FT. CURB REMOVAL
- 7] 45 FT. CURB REMOVAL
- 8] 37 FT. CURB REMOVAL
- 9] 35.1 SQ. YD. PAVEMENT REMOVAL
- 10] 110 SQ. YD. HMA SURFACE REMOVAL, SPECIAL (INCLUDES INCIDENTAL HMA AREAS)
- 11] 53.3 SQ. YD. PAVEMENT REMOVAL



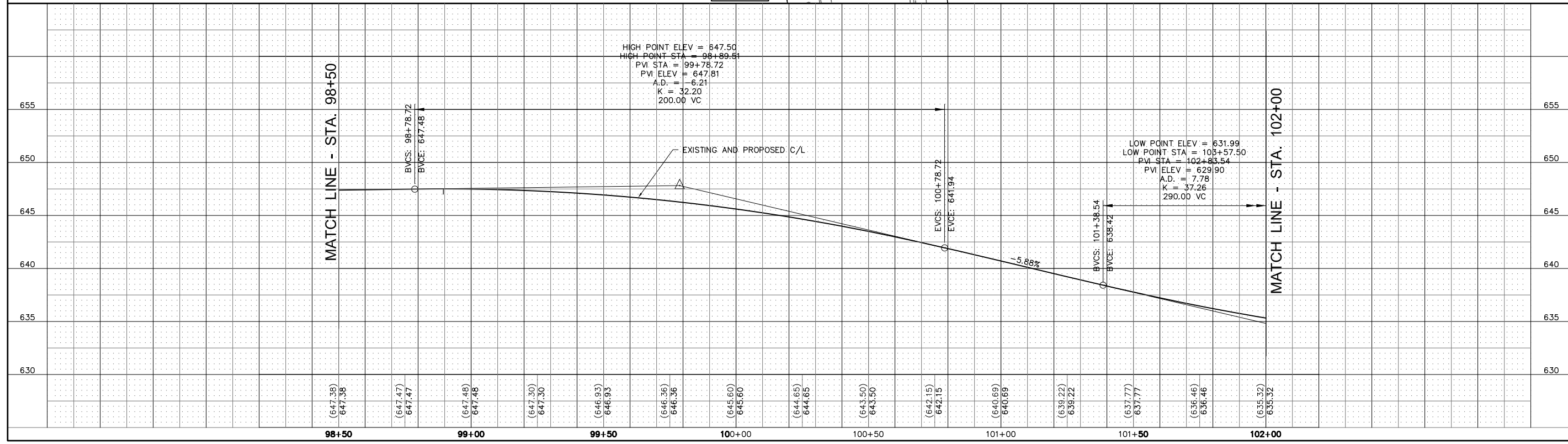
REVISIONS
SMS Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 215 Market Street, Alton, IL 62002 61846249755 E-mail: mail@smsengineers.com
 DESIGN FIRM # 184-000992
ENGINEERS

CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 PLAN AND PROFILE
 CONTRACT NO. 97725
 REF. BK. PG.
 JOB NO. 409793.1
 DSN. BY: DEG
 DWN. BY: CDP
 CHK. BY: DEG
 DATE: JANUARY, 2020
 SCALE: 1" = 20'
 SHEET 12 OF 28



CONSTRUCTION NOTES

- 1 151 SQ. FT. SIDEWALK REMOVAL
- 2 268 SQ. FT. SIDEWALK REMOVAL
- 3 72 SQ. FT. SIDEWALK REMOVAL
- 4 188 SQ. FT. SIDEWALK REMOVAL
- 5 27 FT. C.C.C.&G REMOVAL
- 6 54 FT. C.C.C.&G. REMOVAL
- 7 20 FT. CURB REMOVAL
- 8 19 FT. C.C.C.&G. REMOVAL
- 9 32 FT. CURB REMOVAL



REVISIONS

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 CONSULTING ENGINEERS AND LAND SURVEYORS
 215 Market Street, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
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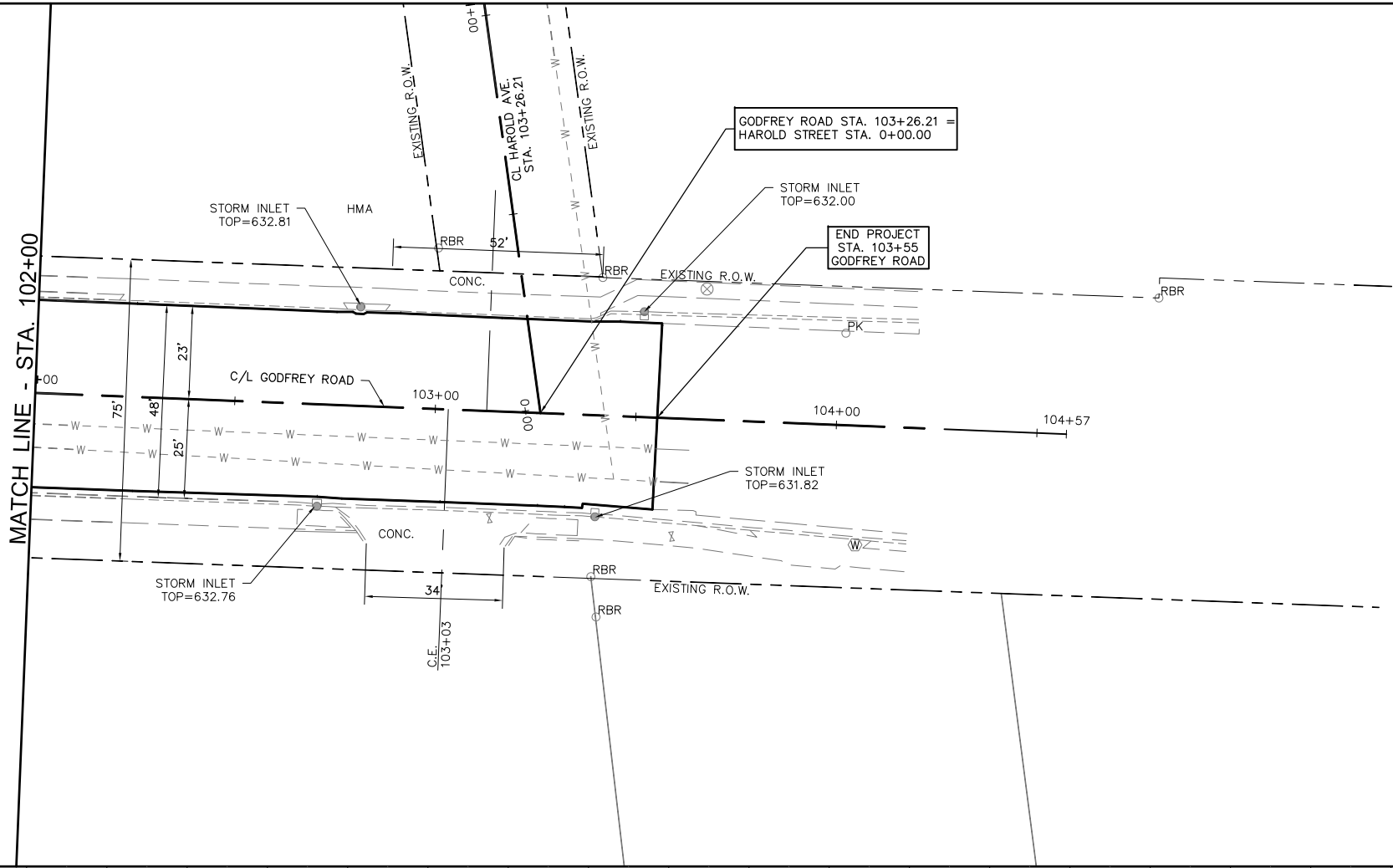
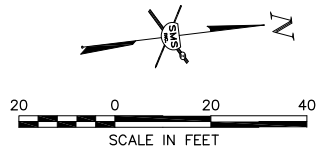
CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 PLAN AND PROFILE

CONTRACT NO. 97725

REF. BK.	PG.
JOB NO. 409793.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: JANUARY, 2020	

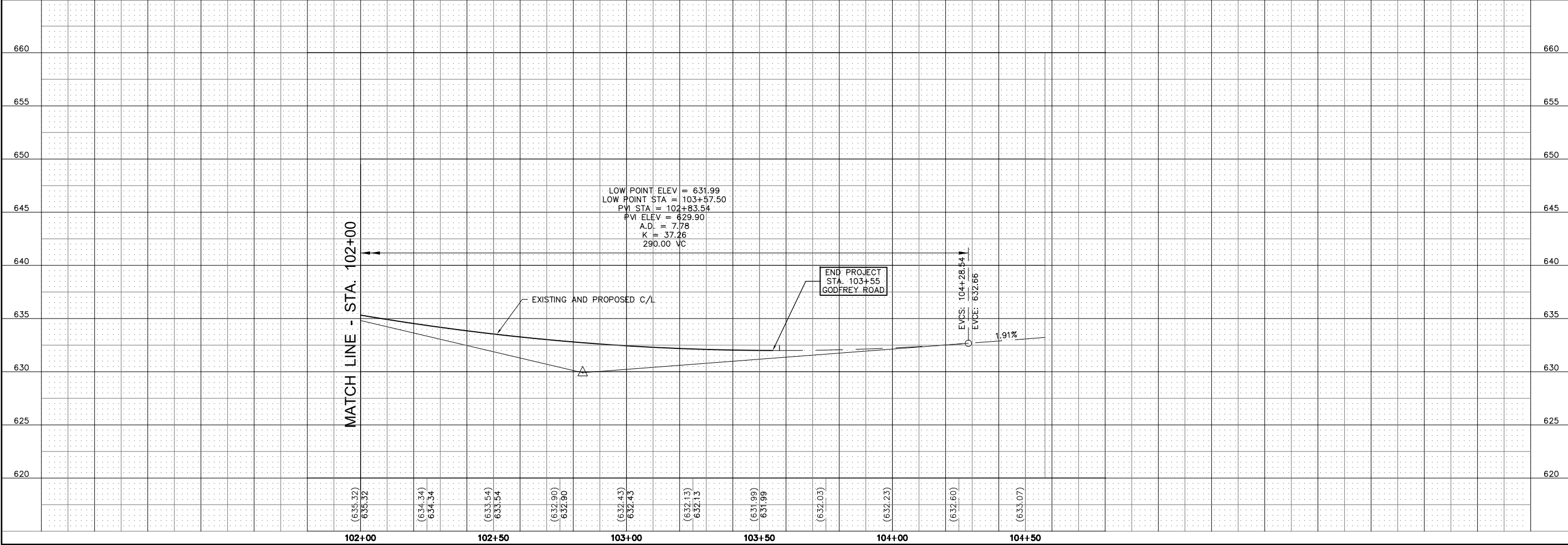
SCALE: 1" = 20'

SHEET 13 OF 28



NO.	DESCRIPTION

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DSN. BY: DEG	
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CHK. BY: DEG	
DATE: JANUARY, 2020	

SCALE: 1" = 20'
 SHEET 14 OF 28

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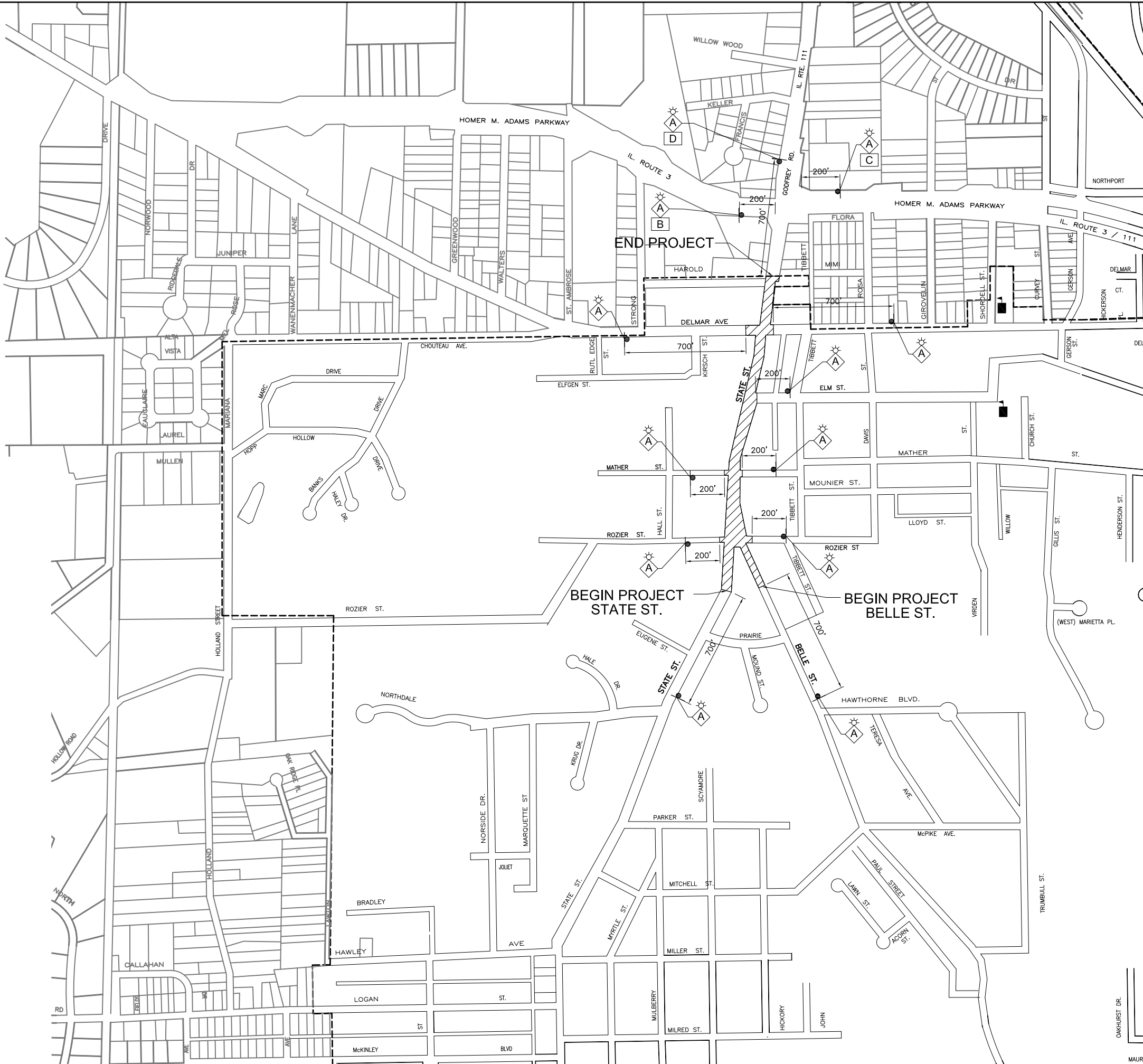


TRAFFIC CONTROL LEGEND

- WORK AREA
- TYPE III BARRICADE WITH REFLECTORIZED STRIPING ON BOTH SIDES WITH FLASHING LIGHTS
- CONE, DRUM OR BARRICADE
- SIGN "ROAD CONSTRUCTION AHEAD" W20-1(0) - 48" x 48" WITH MONODIRECTIONAL FLASHING LIGHT
- SIGN BLACK ARROW ON ORANGE BACKGROUND 24" x 18"
- SIGN BLACK ARROW ON ORANGE BACKGROUND 24" x 18"
- SIGN BLACK ARROW ON ORANGE BACKGROUND 18" x 18"

TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL PROVIDE THE TRAFFIC CONTROL SHOWN ON THE GENERAL TRAFFIC CONTROL PLAN AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT. ADDITIONAL TRAFFIC CONTROL SHALL BE PROVIDED AS SPECIFIED BELOW AND IN ACCORDANCE WITH THE SPECIFIED HIGHWAY STANDARDS.
2. AT TIMES WHEN ALL TRAFFIC LANES ARE OPEN, PROVIDE TRAFFIC CONTROL AS NEEDED PER HIGHWAY STANDARD 701006 AND 701011.
3. STATE ST. SHALL REMAIN OPEN TO THRU TRAFFIC AT ALL TIMES. TRAFFIC LANES WILL BE ALLOWED TO BE CLOSED AS NEEDED AND AS DESCRIBED BELOW.
 - A. FOR SPOT LOCATIONS THAT ARE LESS THAN 1 BLOCK LONG AND FOR 1 HOUR OR LESS, PROVIDE TRAFFIC CONTROL PER HIGHWAY STANDARD 701301.
 - B. IF THE NORTH OR SOUTH BOUND OUTER LANE IS CLOSED PROVIDE TRAFFIC CONTROL PER HIGHWAY STANDARD 701606 WITH ADDITIONAL CONES, DRUMS OR BARRICADES ALONG CENTERLINE.
 - C. IF THE INNER NORTH OR SOUTH BOUND LANE IS CLOSED PROVIDE TRAFFIC CONTROL PER HIGHWAY STANDARD 701502.
 - D. PARKING LANES WILL BE ALLOWED TO BE CLOSED. IN THIS EVENT, THE CITY OF ALTON STREET DEPT. WILL POST TEMPORARY "NO PARKING" SIGNS AS NEEDED TO PREVENT PARKING IN WORK AREAS. THE CONTRACTOR SHALL NOTIFY THE STREET DEPT. AND THE ENGINEER AT LEAST 2 DAYS IN ADVANCE OF THE NEED FOR "NO PARKING" SIGNS.
 - E. WHEN A LANE IS CLOSED IN THE 2-LANE / 2-WAY SECTION OF STATE AND BELLE ST. (BEGINNING OF PROJECT) PROVIDE TRAFFIC CONTROL PER HIGHWAY STANDARD 701501.
 - F. WHEN TWO LANES ARE CLOSED IN EITHER DIRECTION, PROVIDE TRAFFIC CONTROL PER HIGHWAY STANDARD 701611.
 - G. DURING PAVEMENT PATCHING OPERATIONS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL CONES, DRUMS, OR BARRICADES TO PROTECT EACH PATCH AS DIRECTED BY THE ENGINEER.
4. SIDE STREETS MAY EITHER REMAIN OPEN TO TWO WAY TRAFFIC OR MAY BE CLOSED PROVIDING PROPER SIGNS AND BARRICADES PER HIGHWAY STANDARD 701611 WITH THE FOLLOWING ADDITIONAL REQUIREMENTS.
 - A. TYPE III BARRICADES SHALL BE USED ON BOTH SIDES OF PAVEMENT PATCHES. THE MINIMUM NUMBER OF TYPE III BARRICADES USED ON EACH SIDE SHALL BE ONE PER TRAFFIC LANE
5. FOR SIDEWALK REMOVAL AND REPLACEMENT, TRAFFIC CONTROL FOR SIDEWALK CLOSURES SHALL BE PROVIDED PER HIGHWAY STANDARD 701801. SIDEWALK REMOVAL AND REPLACEMENT SHALL BE SEQUENCED AS MUCH AS POSSIBLE TO ALWAYS ALLOW AN ACCESSIBLE ROUTE TO PRIVATE PROPERTY AND BUSINESSES.
6. WHERE A HIGHWAY STANDARD REQUIRES A "ROAD CONSTRUCTION AHEAD" SIGN, THIS REQUIREMENT WILL BE CONSIDERED FULFILLED BY THE SIGNS REQUIRED ON THE GENERAL TRAFFIC CONTROL PLAN.
7. ALL HAZARDS WITHIN WORK ZONES OPEN TO TRAFFIC SHALL BE PROTECTED WITH TYPE I BARRICADES OR DRUMS WITH FLASHING LIGHTS IF LESS THAN 100' IN LENGTH. IF GREATER THAN 100' IN LENGTH, LIGHTS SHALL BE STEADY BURN.
8. ALL CONSTRUCTION SIGNS SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
9. IF THE CONTRACTOR WISHES TO DEVIATE FROM THIS TRAFFIC CONTROL PLAN, HE SHALL PROVIDE A REVISED TRAFFIC CONTROL PLAN IN WRITING FOR THE REVIEW AND APPROVAL OF THE ENGINEER.
10. DURING CONSTRUCTION, ALL OPEN EXCAVATIONS DUE TO PATCHING OPERATIONS SHALL BE FILLED WITH HOT-MIX ASPHALT BY THE END OF EACH WORK DAY. OPEN EXCAVATION WILL NOT BE ALLOWED TO REMAIN OVERNIGHT.
11. DUE TO TRAFFIC SIGNAL WORK, IF THE TRAFFIC SIGNALS ARE NOT IN OPERATION, THEY SHALL BE PLACED IN RED FLASH MODE OR TEMPORARY STOP SIGNS FOR ALL DIRECTIONS SHALL BE INSTALLED.



REVISIONS

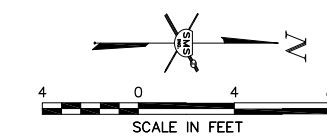
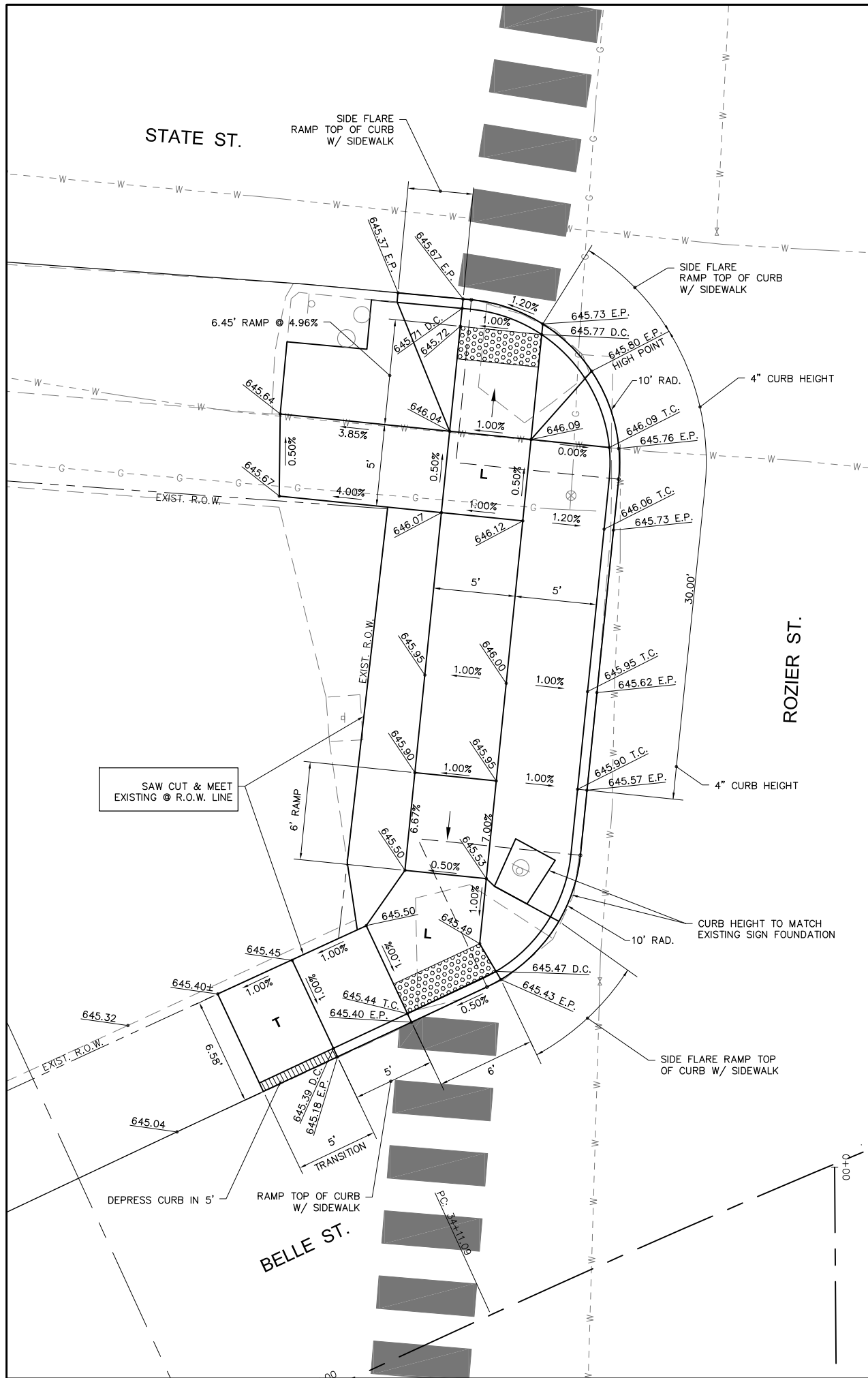
SMS Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
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 DESIGN FIRM # 184-00992

CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 GENERAL TRAFFIC CONTROL PLAN

CONTRACT NO. 97725	
REF. BK.	PG.
JOB NO. 409793.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: JANUARY, 2020	

SCALE: 1" = 300'

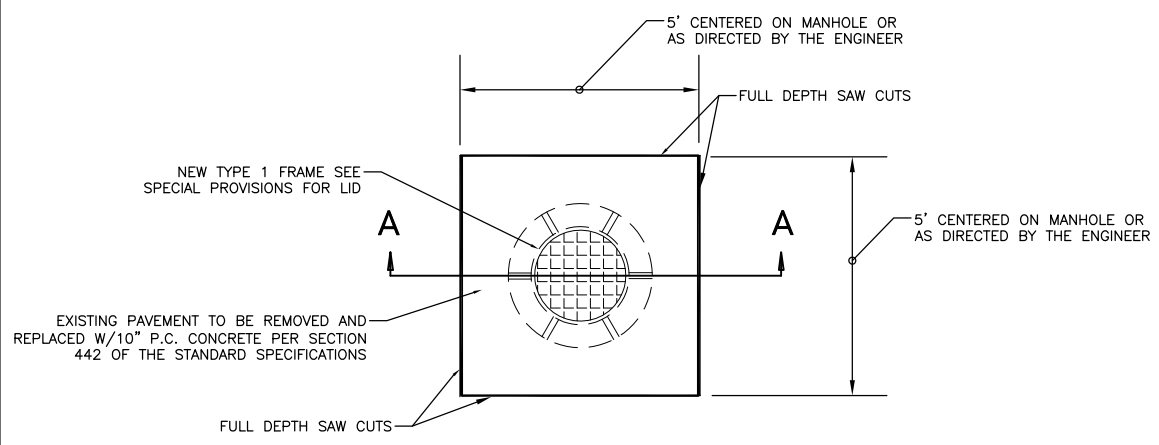
MAURA SHEET 15 OF 28



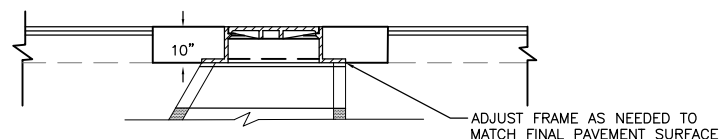
GENERAL NOTES

1. PROPOSED SIDEWALK PLANS SHOW THE DESIGN CONCEPT, HOWEVER THE SPOT ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE AS THE FINAL PAVEMENT AND CURB AND GUTTER MAY HAVE SOME VARIATION. THE CONTRACTOR SHALL CONSTRUCT THE SIDEWALK BY BEGINNING AT THE CURB AND WORKING UP THE RAMP IN ORDER TO ALLOW FOR ADJUSTMENTS IN ELEVATION AND LENGTHS IF NEEDED.

NO.	DATE	DESCRIPTION



MANHOLES TO BE ADJUSTED (SPECIAL)
DETAIL
NOT TO SCALE



SECTION A - A
NOT TO SCALE

SIDEWALK LEGEND

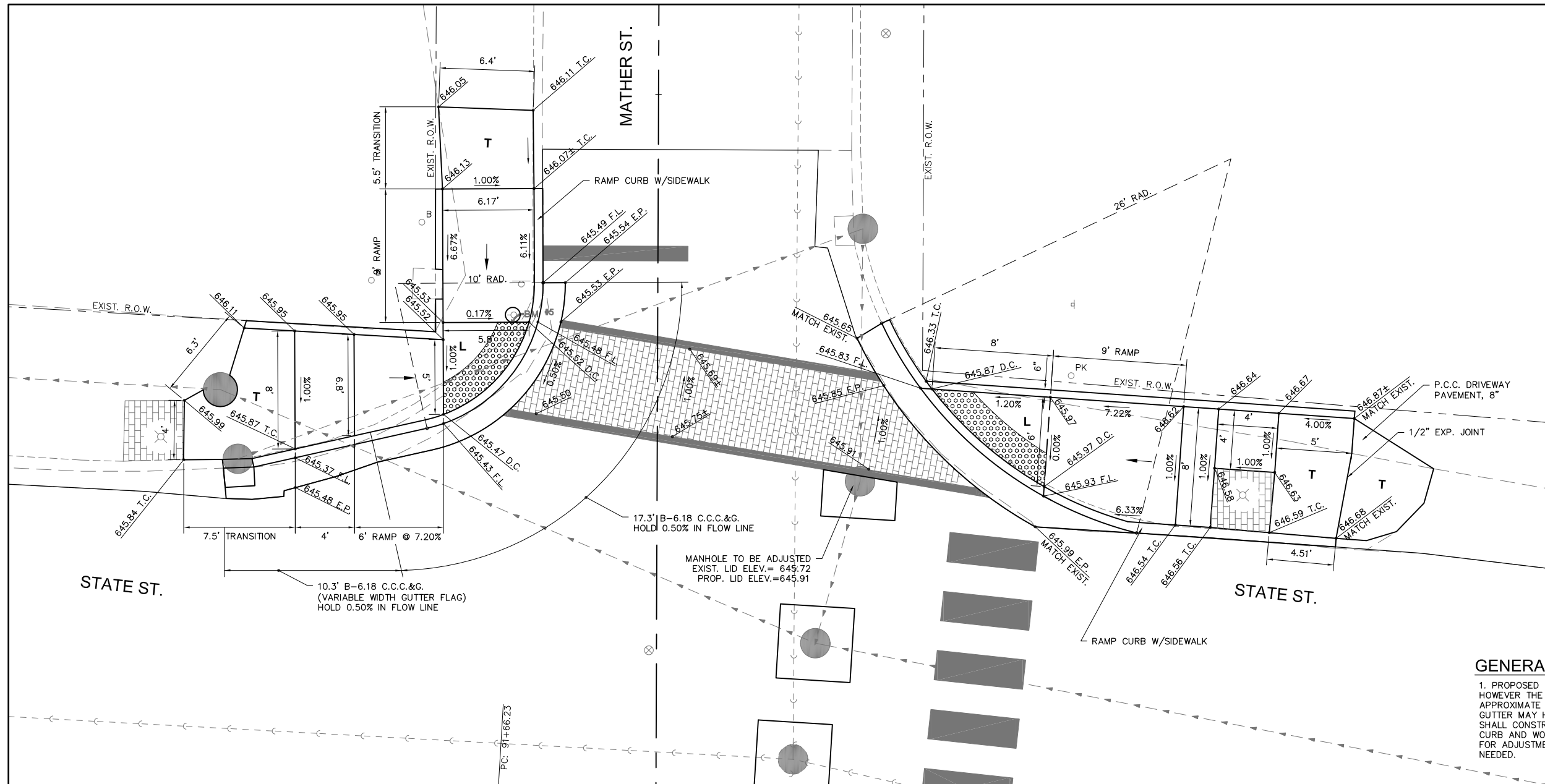
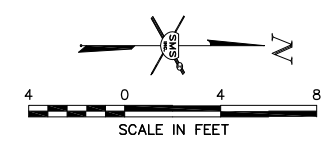
- RAMP - MAX. SLOPE = 12:1 OR MAX. LENGTH REQUIRED = 15'
- DETECTABLE WARNING
- L - LANDING - MIN. SIZE 4' X 4' MAX. SLOPE IN EITHER DIRECTION = 2.0%
- BT - BLENDED TRANSITION - MAX. CROSS SLOPE = 2.0%, MAX. RUNNING SLOPE = 5.0%
- T - TRANSITION TO MEET EXISTING SIDEWALK

SMS ENGINEERS
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DESIGN FIRM # 184-000992

CITY OF ALTON, ILLINOIS
SECTION 16-00238-00-RS
STATE STREET
CONSTRUCTION DETAILS

CONTRACT NO.
97725

REF. BK.	PG.
JOB NO. 409793.1	
DSN. BY: DEG	
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DATE: JANUARY, 2020	



GENERAL NOTES

1. PROPOSED SIDEWALK PLANS SHOW THE DESIGN CONCEPT, HOWEVER THE SPOT ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE AS THE FINAL PAVEMENT AND CURB AND GUTTER MAY HAVE SOME VARIATION. THE CONTRACTOR SHALL CONSTRUCT THE SIDEWALK BY BEGINNING AT THE CURB AND WORKING UP THE RAMP IN ORDER TO ALLOW FOR ADJUSTMENTS IN ELEVATION AND LENGTHS IF NEEDED.

SIDEWALK LEGEND

- RAMP - MAX. SLOPE = 12:1 OR MAX. LENGTH REQUIRED = 15'
- ▨ DETECTABLE WARNING
- L LANDING - MIN. SIZE 4' X 4' MAX. SLOPE IN EITHER DIRECTION = 2.0%
- BT BLENDED TRANSITION - MAX. CROSS SLOPE = 2.0%, MAX. RUNNING SLOPE = 5.0%
- T TRANSITION TO MEET EXISTING SIDEWALK

REVISIONS

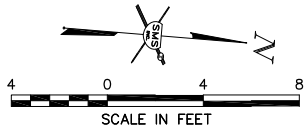
SMS ENGINEERS
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CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 CONSTRUCTION DETAILS

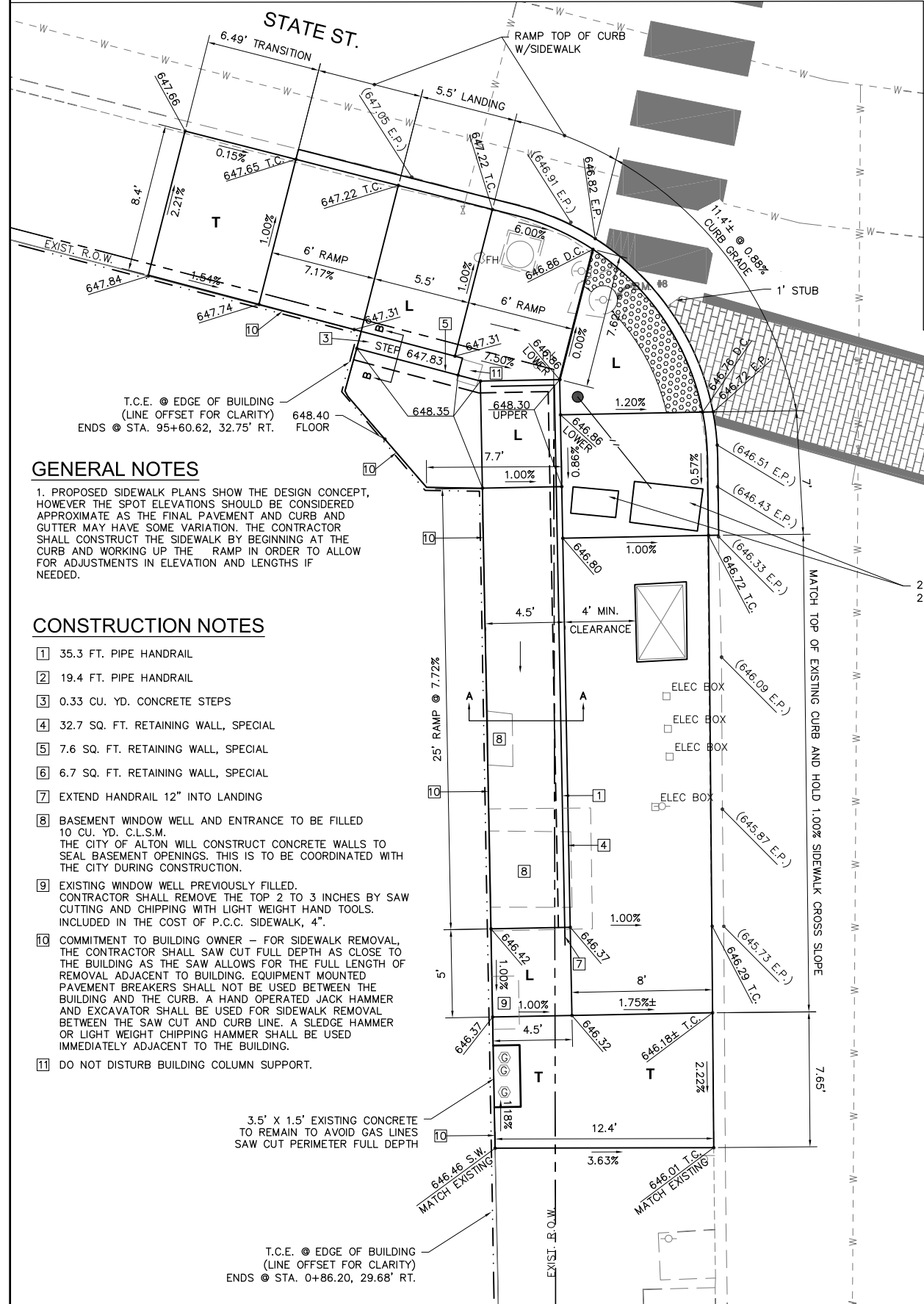
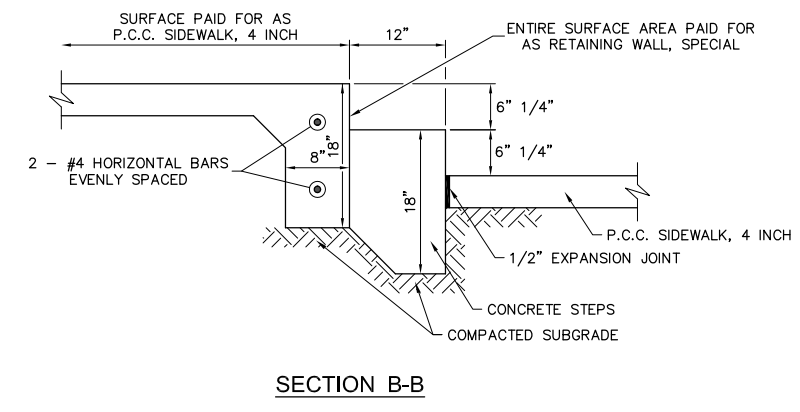
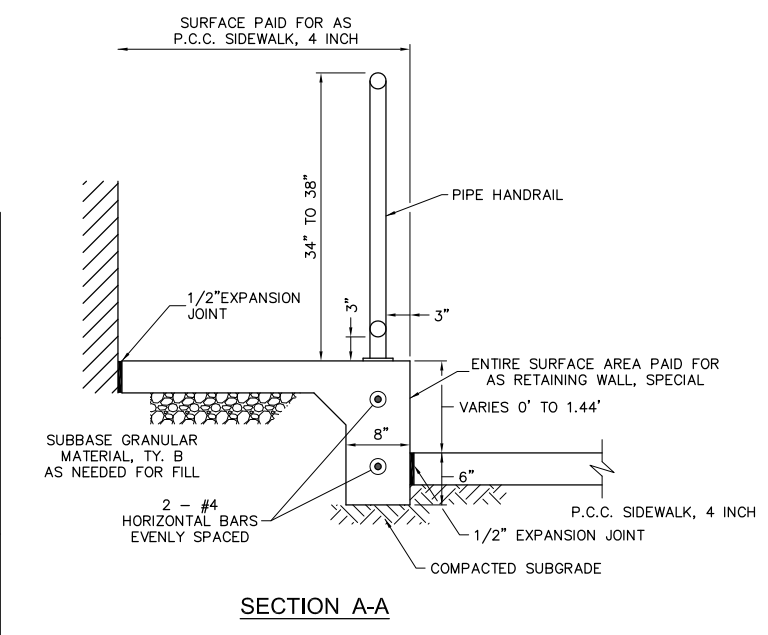
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DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: JANUARY, 2020	

SCALE: 1" = 4'
 SHEET 18 OF 28



- SIDEWALK LEGEND**
- RAMP — MAX. SLOPE = 12:1 OR MAX. LENGTH REQUIRED = 15'
 - ▨ — DETECTABLE WARNING
 - L — LANDING — MIN. SIZE 4' X 4' MAX. SLOPE IN EITHER DIRECTION = 2.0%
 - BT — BLENDED TRANSITION — MAX. CROSS SLOPE = 2.0%, MAX. RUNNING SLOPE = 5.0%
 - T — TRANSITION TO MEET EXISTING SIDEWALK

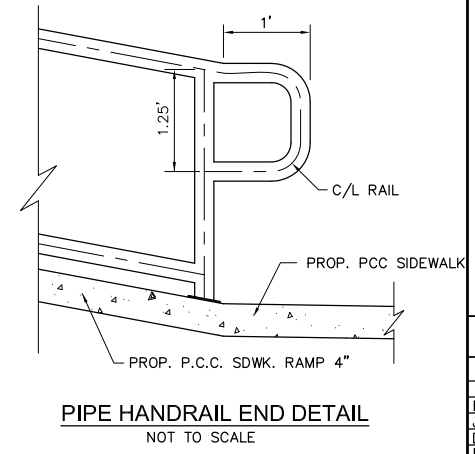
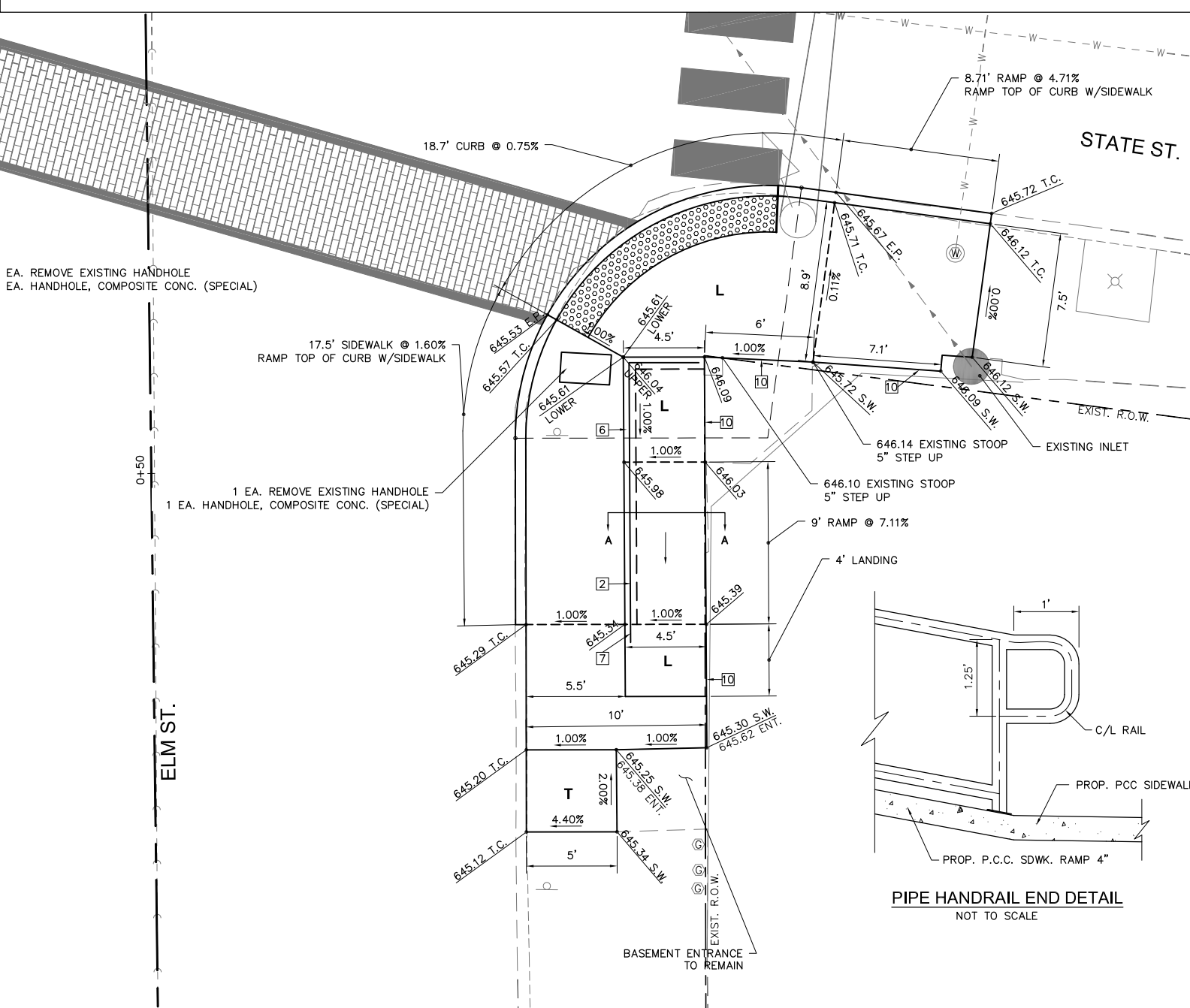


GENERAL NOTES

1. PROPOSED SIDEWALK PLANS SHOW THE DESIGN CONCEPT, HOWEVER THE SPOT ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE AS THE FINAL PAVEMENT AND CURB AND GUTTER MAY HAVE SOME VARIATION. THE CONTRACTOR SHALL CONSTRUCT THE SIDEWALK BY BEGINNING AT THE CURB AND WORKING UP THE RAMP IN ORDER TO ALLOW FOR ADJUSTMENTS IN ELEVATION AND LENGTHS IF NEEDED.

CONSTRUCTION NOTES

- 1 35.3 FT. PIPE HANDRAIL
- 2 19.4 FT. PIPE HANDRAIL
- 3 0.33 CU. YD. CONCRETE STEPS
- 4 32.7 SQ. FT. RETAINING WALL, SPECIAL
- 5 7.6 SQ. FT. RETAINING WALL, SPECIAL
- 6 6.7 SQ. FT. RETAINING WALL, SPECIAL
- 7 EXTEND HANDRAIL 12" INTO LANDING
- 8 BASEMENT WINDOW WELL AND ENTRANCE TO BE FILLED 10 CU. YD. C.L.S.M. THE CITY OF ALTON WILL CONSTRUCT CONCRETE WALLS TO SEAL BASEMENT OPENINGS. THIS IS TO BE COORDINATED WITH THE CITY DURING CONSTRUCTION.
- 9 EXISTING WINDOW WELL PREVIOUSLY FILLED. CONTRACTOR SHALL REMOVE THE TOP 2 TO 3 INCHES BY SAW CUTTING AND CHIPPING WITH LIGHT WEIGHT HAND TOOLS. INCLUDED IN THE COST OF P.C.C. SIDEWALK, 4".
- 10 COMMITMENT TO BUILDING OWNER — FOR SIDEWALK REMOVAL, THE CONTRACTOR SHALL SAW CUT FULL DEPTH AS CLOSE TO THE BUILDING AS THE SAW ALLOWS FOR THE FULL LENGTH OF REMOVAL ADJACENT TO BUILDING. EQUIPMENT MOUNTED PAVEMENT BREAKERS SHALL NOT BE USED BETWEEN THE BUILDING AND THE CURB. A HAND OPERATED JACK HAMMER AND EXCAVATOR SHALL BE USED FOR SIDEWALK REMOVAL BETWEEN THE SAW CUT AND CURB LINE. A SLEDGE HAMMER OR LIGHT WEIGHT CHIPPING HAMMER SHALL BE USED IMMEDIATELY ADJACENT TO THE BUILDING.
- 11 DO NOT DISTURB BUILDING COLUMN SUPPORT.



REVISIONS

NO.	DESCRIPTION

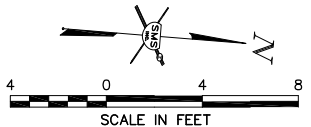
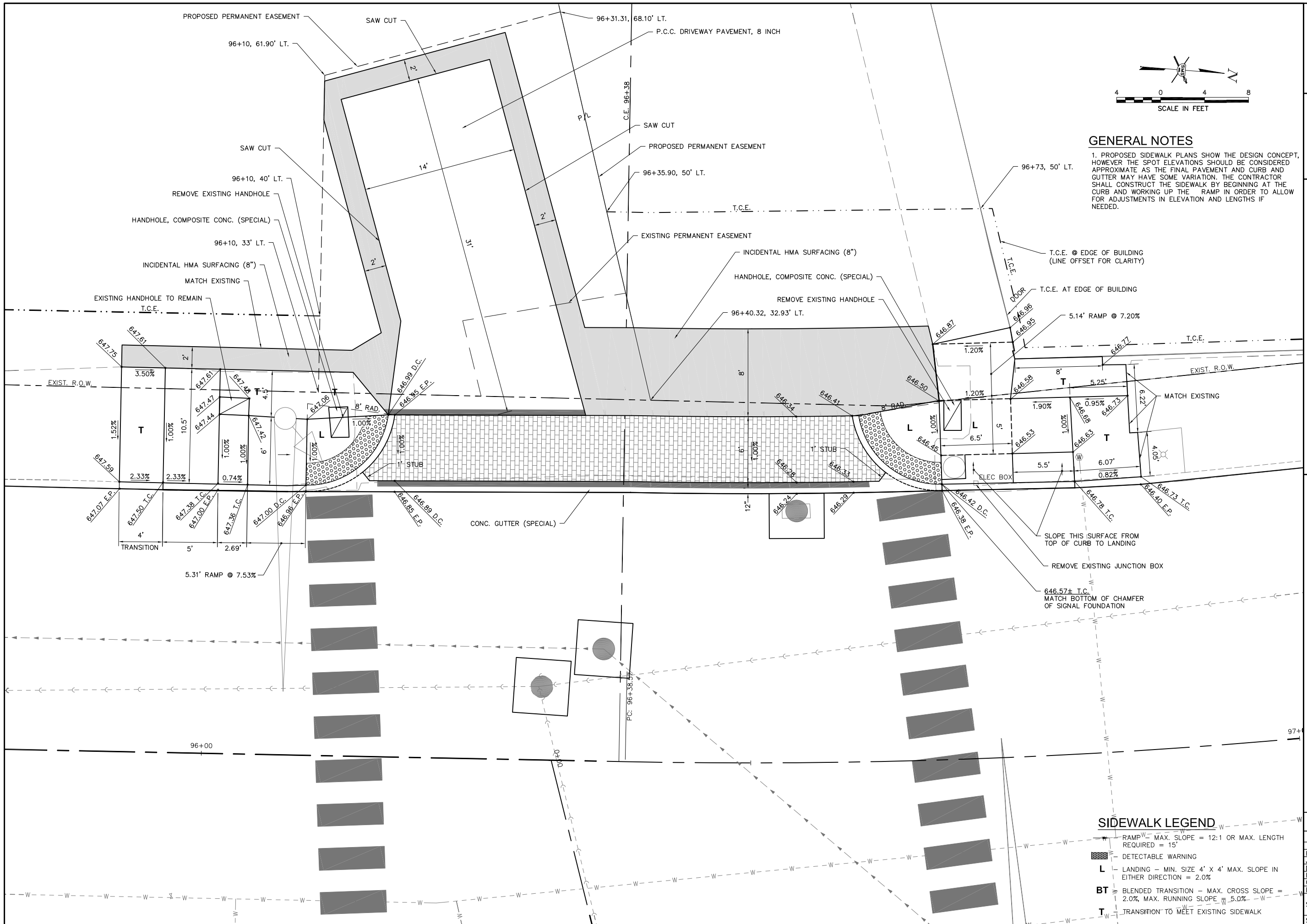
SMS ENGINEERS
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 DESIGN FIRM # 184-000992

CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 CONSTRUCTION DETAILS

CONTRACT NO. 97725

REF. BK.	PG.
JOB NO. 409793.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: JANUARY, 2020	

SCALE: 1" = 4'
 SHEET 19 OF 28



GENERAL NOTES

1. PROPOSED SIDEWALK PLANS SHOW THE DESIGN CONCEPT, HOWEVER THE SPOT ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE AS THE FINAL PAVEMENT AND CURB AND GUTTER MAY HAVE SOME VARIATION. THE CONTRACTOR SHALL CONSTRUCT THE SIDEWALK BY BEGINNING AT THE CURB AND WORKING UP THE RAMP IN ORDER TO ALLOW FOR ADJUSTMENTS IN ELEVATION AND LENGTHS IF NEEDED.

NO.	DESCRIPTION

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CONSULTING ENGINEERS AND LAND SURVEYORS
715 Market Street, Alton, IL 62002 61846249755 E-mail: mail@smsengineers.com
DESIGN FIRM # 184-000992

CITY OF ALTON, ILLINOIS
SECTION 16-00238-00-RS
STATE STREET
CONSTRUCTION DETAILS

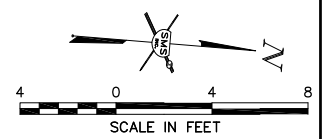
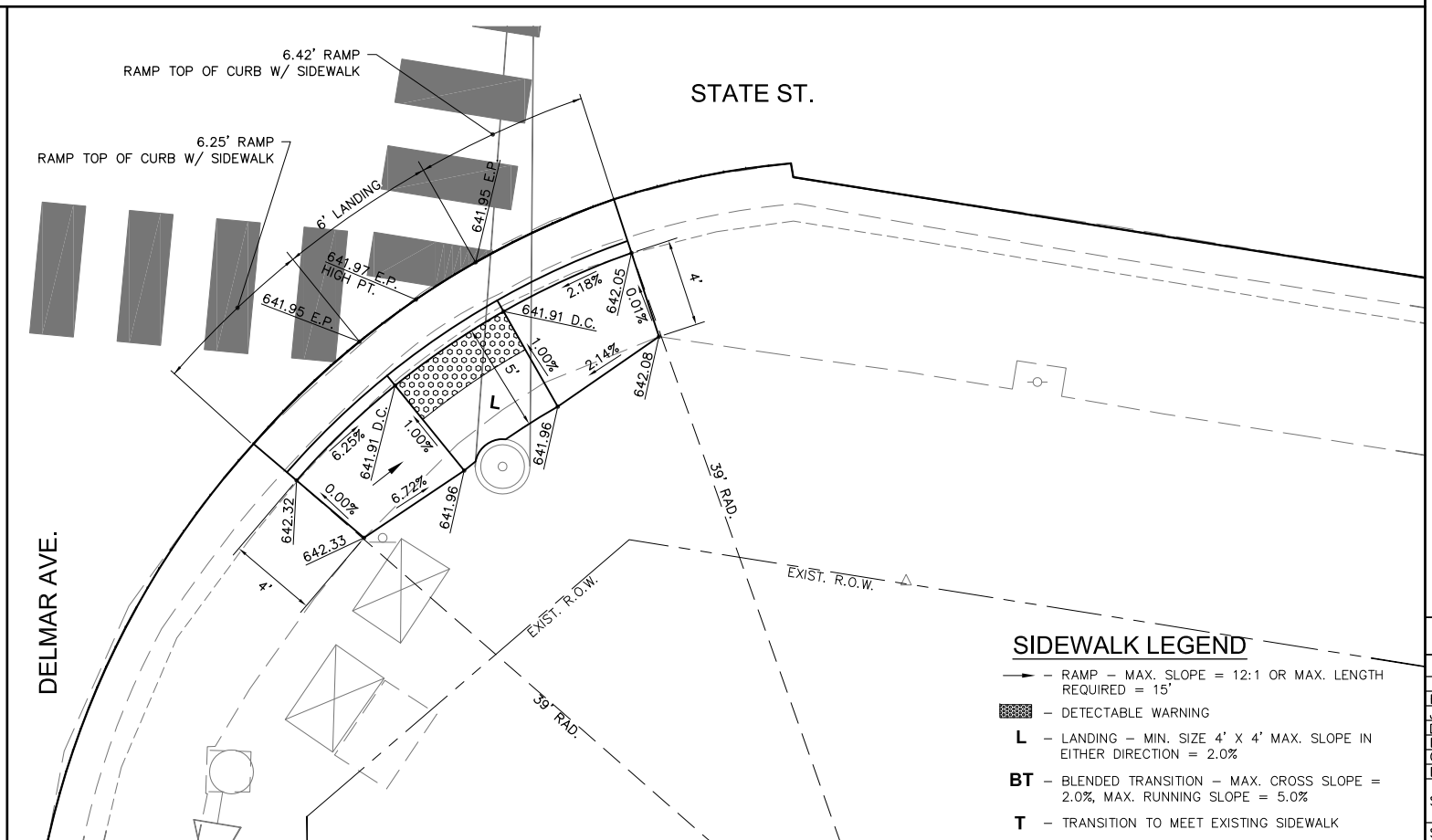
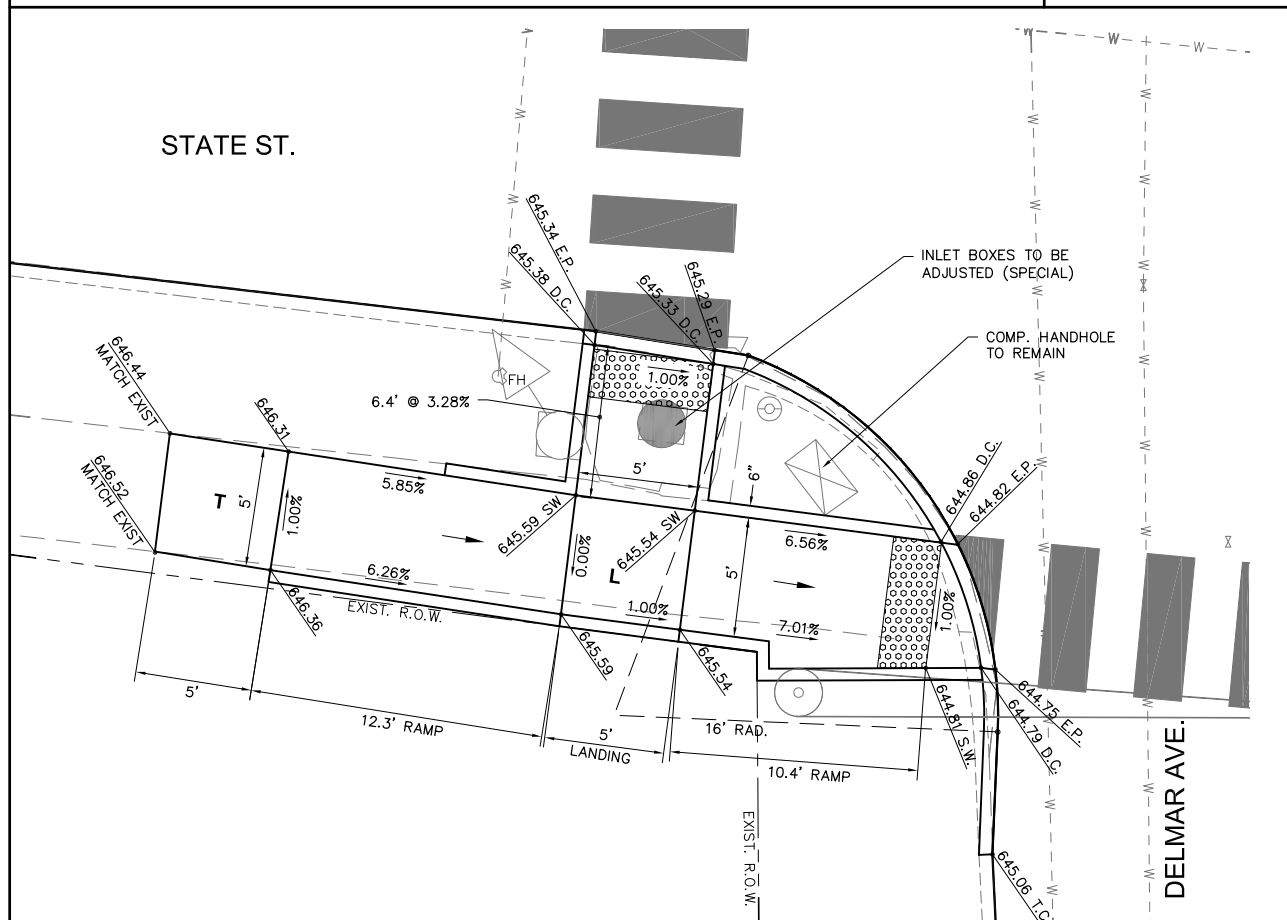
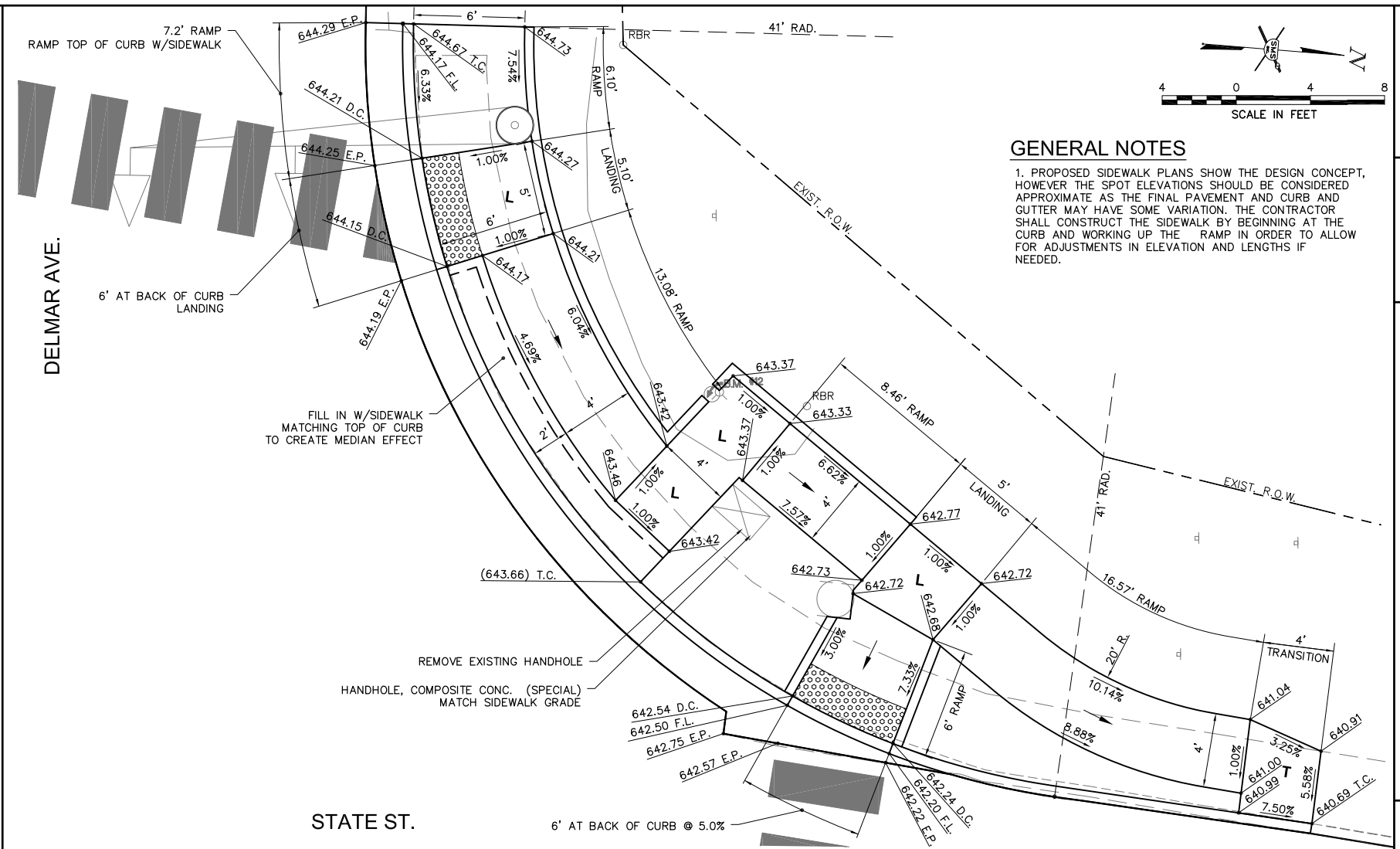
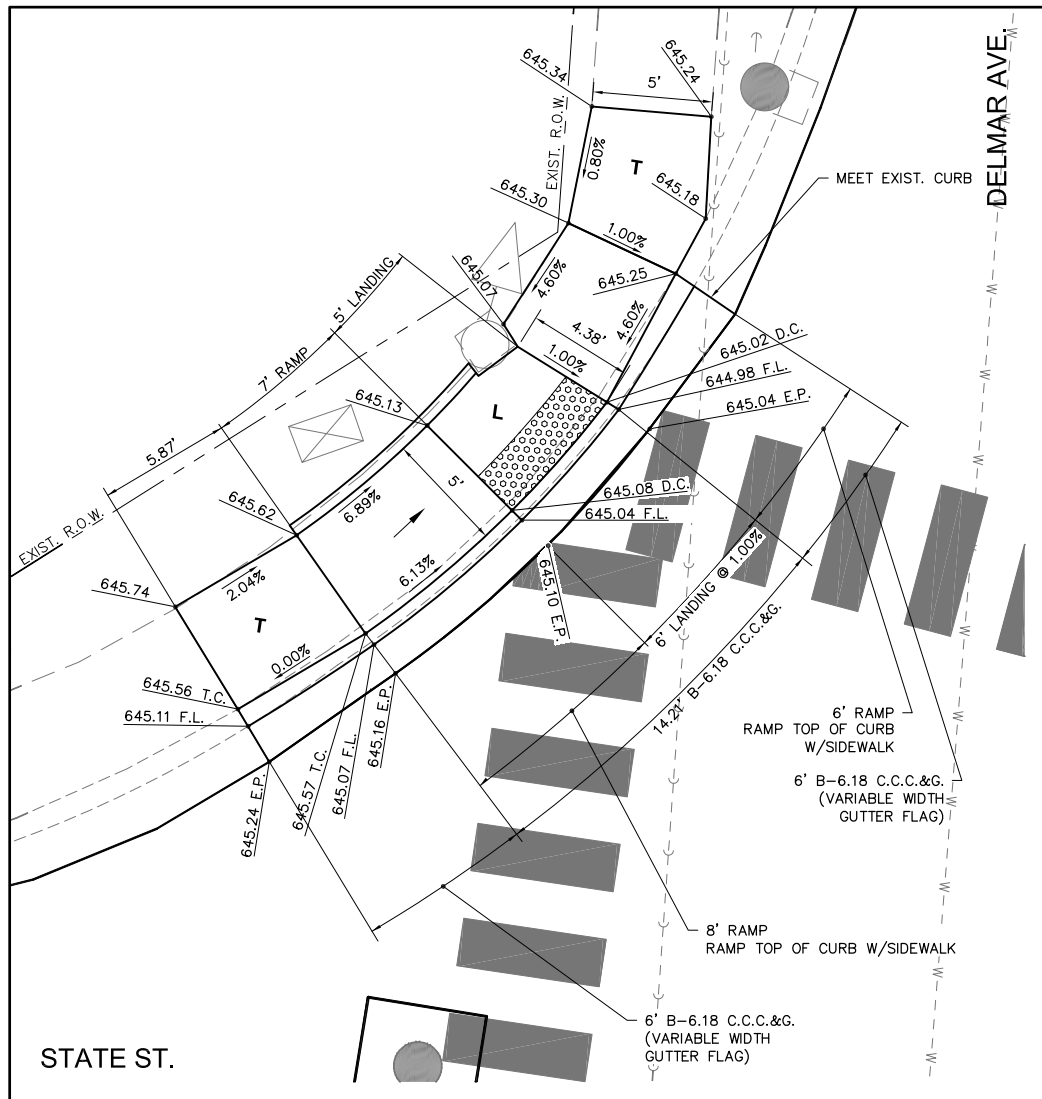
CONTRACT NO.
97725

REF. BK.	PG.
JOB NO. 409793.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: JANUARY, 2020	

SCALE: 1" = 4'
SHEET 20 OF 28

SIDEWALK LEGEND

- RAMP W- MAX. SLOPE = 12:1 OR MAX. LENGTH REQUIRED = 15'
- DETECTABLE WARNING
- L LANDING - MIN. SIZE 4' X 4' MAX. SLOPE IN EITHER DIRECTION = 2.0%
- BT BLENDED TRANSITION - MAX. CROSS SLOPE = 2.0% MAX. RUNNING SLOPE = 5.0%
- T TRANSITION TO MEET EXISTING SIDEWALK



GENERAL NOTES

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NO.	REVISIONS

SMS
ENGINEERS

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CONSULTING ENGINEERS AND LAND SURVEYORS

215 Market Street, Alton, IL 62002 61846249755 E-mail: mail@smsengineers.com

DESIGN FIRM # 184-000992

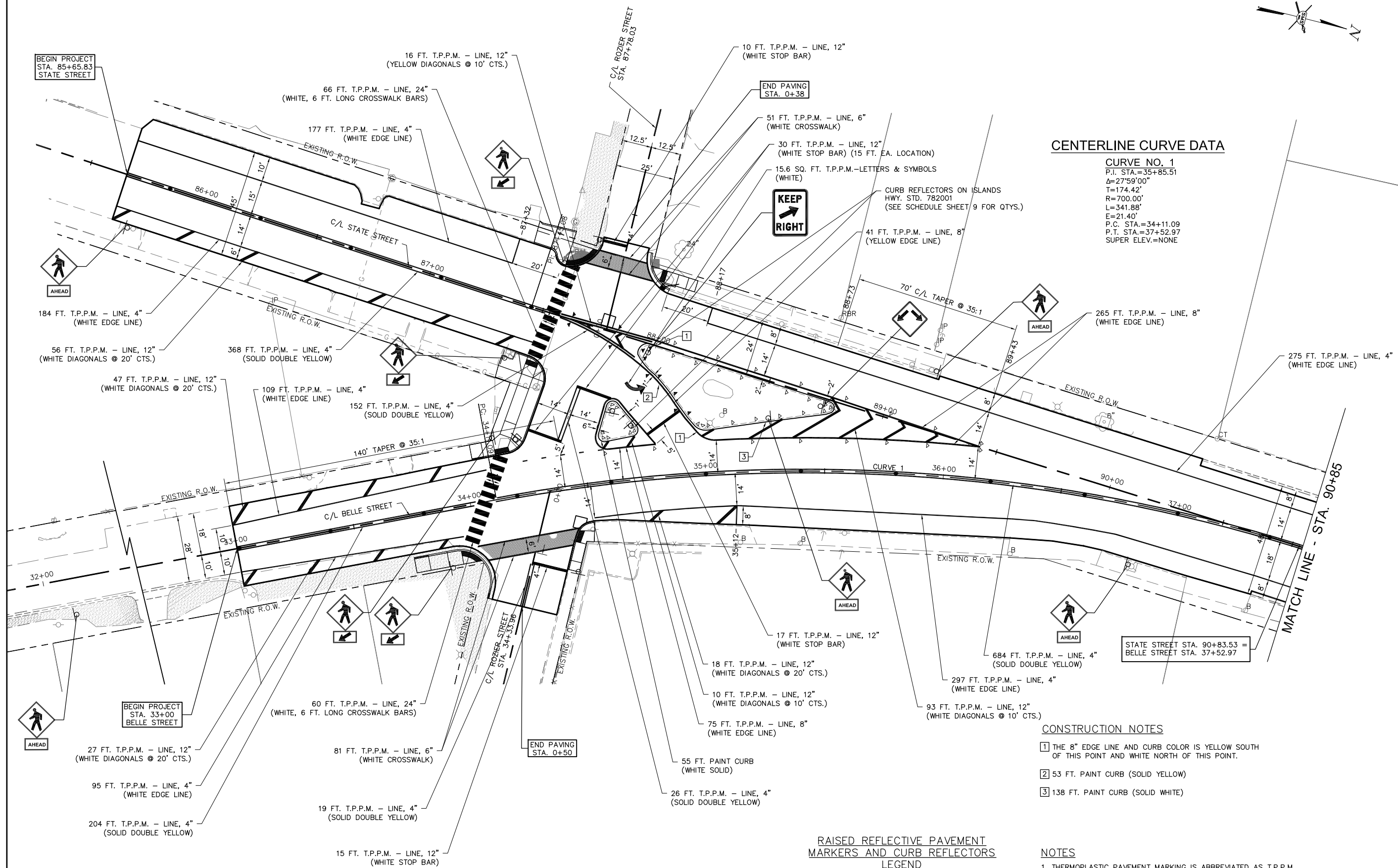
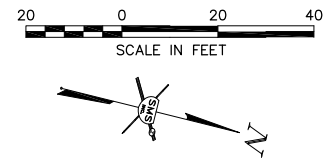
CITY OF ALTON, ILLINOIS
SECTION 16-00238-00-RS
STATE STREET
CONSTRUCTION DETAILS

SIDEWALK LEGEND

- RAMP - MAX. SLOPE = 12:1 OR MAX. LENGTH REQUIRED = 15'
- DETECTABLE WARNING
- L LANDING - MIN. SIZE 4' X 4' MAX. SLOPE IN EITHER DIRECTION = 2.0%
- BT BLENDED TRANSITION - MAX. CROSS SLOPE = 2.0%, MAX. RUNNING SLOPE = 5.0%
- T TRANSITION TO MEET EXISTING SIDEWALK

CONTRACT NO. 97725	
REF. BK.	PG.
JOB NO. 409793.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: JANUARY, 2020	
SCALE: 1" = 4'	
SHEET	21 OF 28

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CENTERLINE CURVE DATA

CURVE NO. 1
 P.I. STA.=35+85.51
 Δ=27°59'00"
 T=174.42'
 R=700.00'
 L=341.88'
 E=21.40'
 P.C. STA.=34+11.09
 P.T. STA.=37+52.97
 SUPER ELEV.=NONE

CONSTRUCTION NOTES

- 1 THE 8" EDGE LINE AND CURB COLOR IS YELLOW SOUTH OF THIS POINT AND WHITE NORTH OF THIS POINT.
- 2 53 FT. PAINT CURB (SOLID YELLOW)
- 3 138 FT. PAINT CURB (SOLID WHITE)

RAISED REFLECTIVE PAVEMENT MARKERS AND CURB REFLECTORS LEGEND

- ▶ ONE-WAY AMBER
- ▷ ONE-WAY CRYSTAL
- ◆ TWO-WAY AMBER
- * SEE SCHEDULE SHEET 9

NOTES

- 1. THERMOPLASTIC PAVEMENT MARKING IS ABBREVIATED AS T.P.P.M.
- 2. PAINT PAVEMENT MARKING IS ABBREVIATED AS P.P.M.

REVISIONS

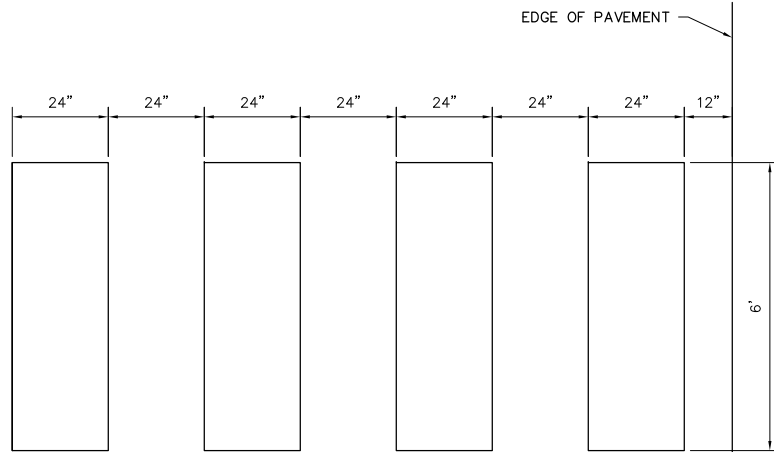
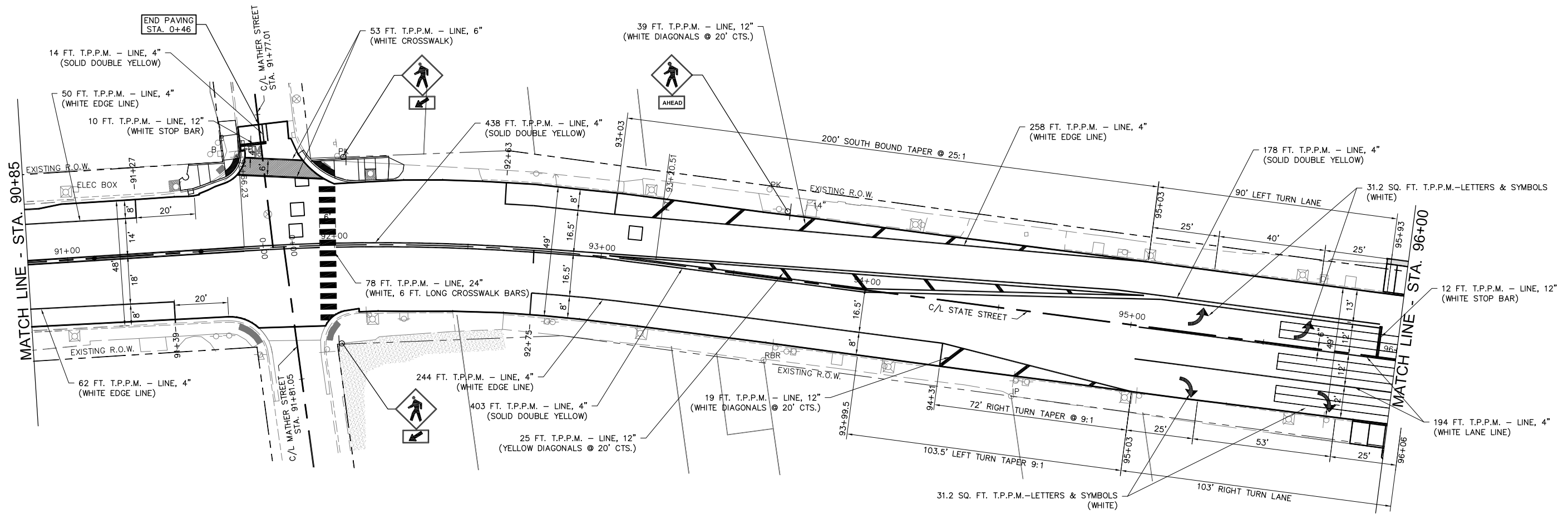
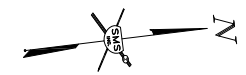
SMS ENGINEERS
 Sheppard, Morgan & Schwab, Inc.
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 215 Market Street, Alton, IL 62002 6184624975 E-mail: mail@smsengineers.com
 DESIGN FIRM # 184-000992

CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 PAVEMENT MARKING AND SIGNING PLAN

CONTRACT NO.
 97725

REF. BK.	PG.
JOB NO. 409793.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: JANUARY, 2020	

SCALE: 1" = 20'
 SHEET 22 OF 28



TYPICAL CROSSWALK BARS DETAIL

RAISED REFLECTIVE PAVEMENT MARKERS AND CURB REFLECTORS LEGEND

- ▶ ONE-WAY AMBER
- ▷ ONE-WAY CRYSTAL
- ◆ TWO-WAY AMBER
- * SEE SCHEDULE SHEET 9

NOTES

1. THERMOPLASTIC PAVEMENT MARKING IS ABBREVIATED AS T.P.P.M.
2. PAINT PAVEMENT MARKING IS ABBREVIATED AS P.P.M.

REVISIONS

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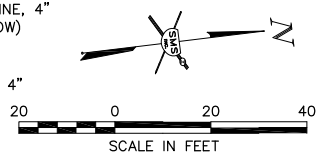
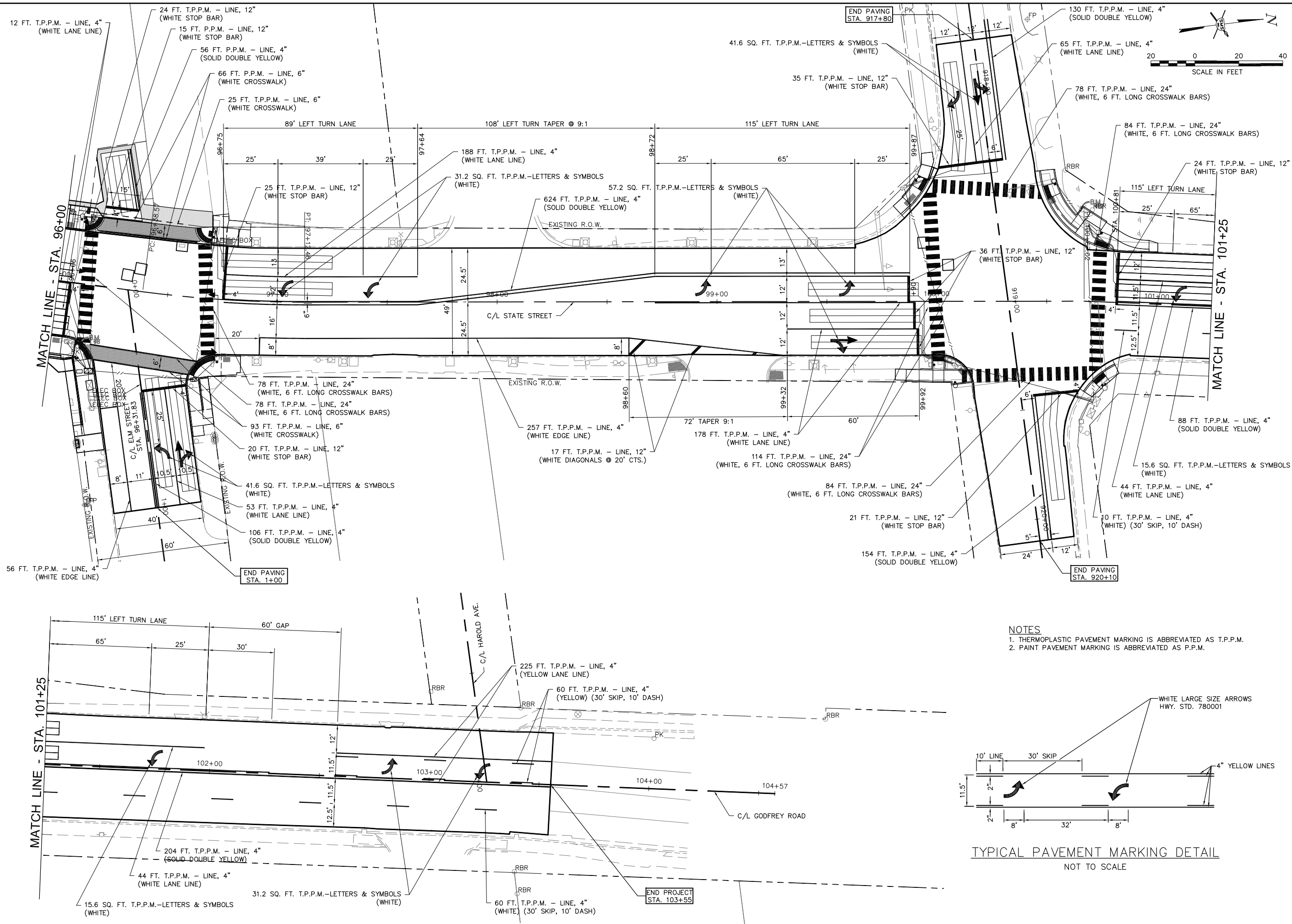
CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 PAVEMENT MARKING AND SIGNING PLAN

CONTRACT NO.
 97725

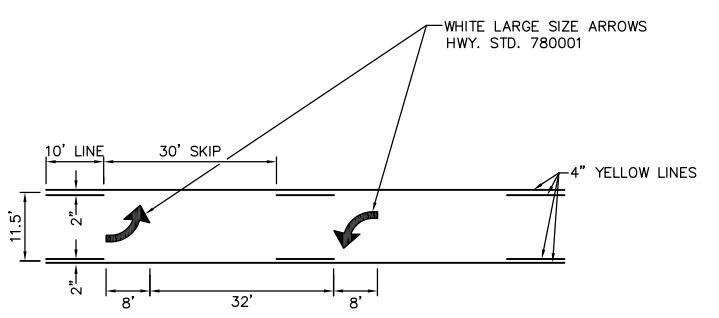
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JOB NO. 409793.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: JANUARY, 2020	

SCALE: 1" = 20'

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- NOTES**
1. THERMOPLASTIC PAVEMENT MARKING IS ABBREVIATED AS T.P.P.M.
 2. PAINT PAVEMENT MARKING IS ABBREVIATED AS P.P.M.



TYPICAL PAVEMENT MARKING DETAIL
NOT TO SCALE

NO.	DESCRIPTION

SMS ENGINEERS
Sheppard, Morgan & Schwab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 215 Market Street, Alton, IL 62002 Phone: 618-462-9755 E-mail: mail@smsengineers.com
 DESIGN FIRM # 184-000992

CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 PAVEMENT MARKING AND SIGNING PLAN

CONTRACT NO.	97725
REF. BK.	PG.
JOB NO.	409793.1
DSN. BY:	DEG
DWN. BY:	CDP
CHK. BY:	DEG
DATE:	JANUARY, 2020
SCALE:	1" = 20'
SHEET	24 OF 28

TRAFFIC SIGNAL SCHEDULE

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	10
80300100	LOCATING UNDERGROUND CABLE	FOOT	200
81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	184
81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	10
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	552
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	300
87601100	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	1
87900200	DRILL EXISTING HANDHOLE	EACH	6
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	4
88600600	DETECTOR LOOP REPLACEMENT	FOOT	2,737
88800100	PEDESTRIAN PUSH-BUTTON	EACH	16
89502200	MODIFY EXISTING CONTROLLER	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	6
X1400031	REMOVE PEDESTRIAN PUSH-BUTTON	EACH	14
X8130125	REMOVE EXISTING JUNCTION BOX	EACH	1
X8140230	HANDHOLE, COMPOSITE CONCRETE (SPECIAL)	EACH	6
X8950305	REMOVE EXISTING SIGNAL HEAD	EACH	4

ELECTRICAL GENERAL NOTES

1. ALL VEHICLE SIGNAL HEADS SHALL HAVE 12" SECTIONS. MOUNTING HARDWARE SHALL BE UNPAINTED ALUMINUM. ALL BOLTS, SCREWS, NUTS AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SEIZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
2. BACKPLATES SHALL BE ABS PLASTIC.
3. ALL TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED-ON RING TONGUE CONNECTORS.
4. THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
5. DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER SECTION 873 OF THE STANDARD SPECIFICATIONS. CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD FILLED WITH NON-HARDENING EPOXY FILLER. ROSIN-CORE SOLDER SHALL BE USED.
6. CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
7. CALL CARRY-OVER SHALL FUNCTION ONLY WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
8. THE CITY OF ALTON HAS HANDHOLES AND ELECTRICAL WIRING FOR DECORATIVE STREET LIGHTING IN THE AREA. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND PROTECT THESE FACILITIES DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 803 OF THE STANDARD SPECIFICATIONS.
9. DETECTOR LOOPS SHALL BE SAWED INTO THE PAVEMENT AFTER MILLING AND PRIOR TO INSTALLING THE FINAL HMA SURFACE.
10. ALL EXISTING PEDESTRIAN PUSH-BUTTONS AND INSTRUCTION SIGNS ARE TO BE REMOVED AND REPLACED WITH NEW PEDESTRIAN PUSH-BUTTONS AND INSTRUCTION SIGNS (R10-3) MOUNTED AT NEW LOCATIONS AS SHOWN ON THE PLANS TO MEET ADA REQUIREMENTS PER SECTION 888, AND AS DIRECTED BY THE ENGINEER.

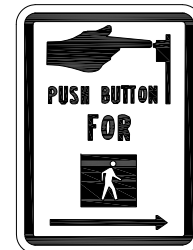
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 DESIGN FIRM # 184-000992

TRAFFIC SIGNALS LEGEND

UC	UNDERGROUND CONDUIT
GSC	GALVANIZED STEEL CONDUIT
PVC	POLYVINYL CHLORIDE
	EXISTING PEDESTRIAN SIGNAL HEAD
	EXISTING SIGNAL AND POST
	EXISTING SIGNAL WITH BACKPLATE
	EXISTING TRAFFIC SIGNAL MAST ARM
	EXISTING HANDHOLE
	EXISTING DOUBLE HANDHOLE
	EXISTING DETECTOR LOOP
	EXISTING CONTROLLER
	EXISTING CONDUIT: SIZE, TYPE SPECIFIED
	PROPOSED SIGNAL HEAD BRACKET MOUNTED
	PROPOSED PEDESTRIAN SIGNAL HEAD
	PROPOSED SIGNAL HEAD WITH BACKPLATE, MAST ARM MOUNTED
	PROPOSED DETECTOR LOOP
	PROPOSED UNDERGROUND CONDUIT: SIZE AND TYPE SPECIFIED
	PROPOSED PEDESTRIAN PUSH-BUTTON POST
	PROPOSED STOP BAR

SIGN DETAILS



R10-3
(9" X 12")
8 EACH

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS

	LOOP	PHASE	LOOP SIZE (FT.)	REQUIRED NO. OF TURNS	LEAD-IN LENGTH (FT.)	CALCULATED INDUCTANCE MICROHENRIES (-μH)	CALCULATED RESISTANCE OHMS (Ω)
AT ELM STREET							
1	E.B. THRU CD	4	9 X 25	3-6-3	113.5	454.0	1.5
2	N.B. LEFT CD	5	6 X 50	3-6-3	71	801.6	1.9
3	N.B. THRU CD	2	6 X 50	3-6-3	59	799.0	1.9
4	N.B. RIGHT CD	2	6 X 50	3-6-3	48	796.6	1.8
5	W.B. LEFT CD	3	6 X 50	3-6-3	98.5	807.7	2.1
6	W.B. THRU CD	3	6 X 50	3-6-3	87.5	805.3	2.0
7	S.B. LEFT CD	1	6 X 50	3-6-3	180	825.6	2.5
8	S.B. THRU CD	6	6 X 50	3-6-3	167	822.7	2.4
AT DELMAR AVENUE							
9	E.B. THRU CD	X	6 X 50	3-6-3	226	835.7	2.7
10	E.B. RIGHT CD	X	6 X 50	3-6-3	212	832.6	2.7
11	N.B. LEFT CD	X	6 X 50	3-6-3	142.5	817.4	2.3
12	N.B. THRU CD	X	6 X 50	3-6-3	129.5	814.5	2.2
13	N.B. RIGHT CD	X	6 X 50	3-6-3	118.5	812.1	2.2
14	W.B. THRU CD	X	6 X 50	3-6-3	43	795.5	1.8
15	S.B. LEFT CD	X	6 X 50	3-6-3	145.5	818.0	2.3
16	S.B. THRU CD	X	6 X 50	3-6-3	136.5	816.0	2.3

NOTE: THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 ELECTRICAL NOTES, LEGEND & DETAILS

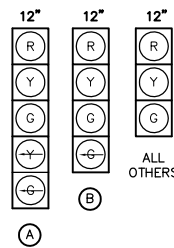
CONTRACT NO.
97725

REF. BK. PG.
 JOB NO. 409793.1
 DSN. BY: DEG
 DWN. BY: CDP
 CHK. BY: DEG
 DATE: JANUARY, 2020

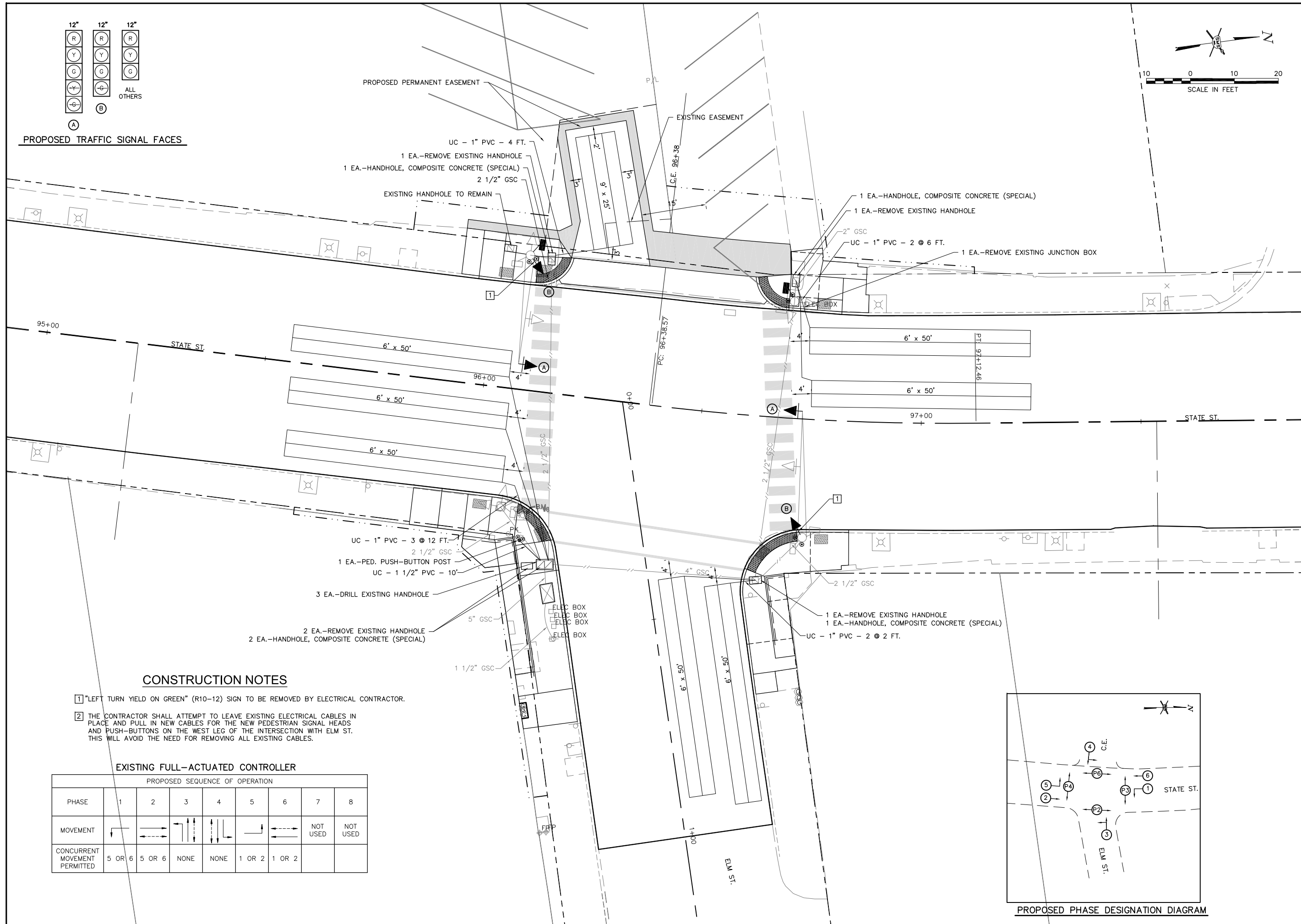
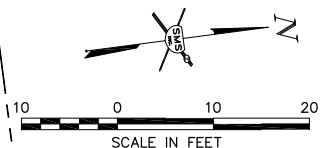
SCALE: NONE

SHEET 25 OF 28

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PROPOSED TRAFFIC SIGNAL FACES

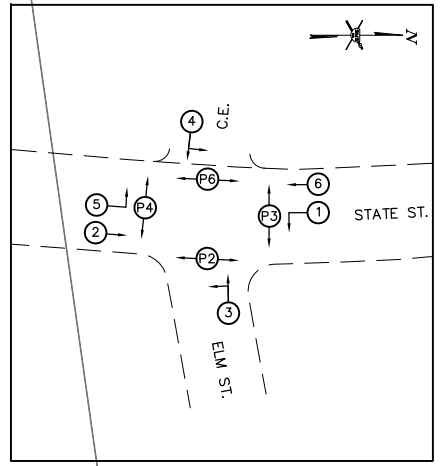


CONSTRUCTION NOTES

- 1 "LEFT TURN YIELD ON GREEN" (R10-12) SIGN TO BE REMOVED BY ELECTRICAL CONTRACTOR.
- 2 THE CONTRACTOR SHALL ATTEMPT TO LEAVE EXISTING ELECTRICAL CABLES IN PLACE AND PULL IN NEW CABLES FOR THE NEW PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTONS ON THE WEST LEG OF THE INTERSECTION WITH ELM ST. THIS WILL AVOID THE NEED FOR REMOVING ALL EXISTING CABLES.

EXISTING FULL-ACTUATED CONTROLLER

PHASE	PROPOSED SEQUENCE OF OPERATION							
	1	2	3	4	5	6	7	8
MOVEMENT	←	→	↑	↓	←	→	NOT USED	NOT USED
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	NONE	NONE	1 OR 2	1 OR 2		



PROPOSED PHASE DESIGNATION DIAGRAM

REVISIONS

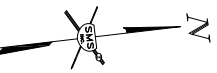
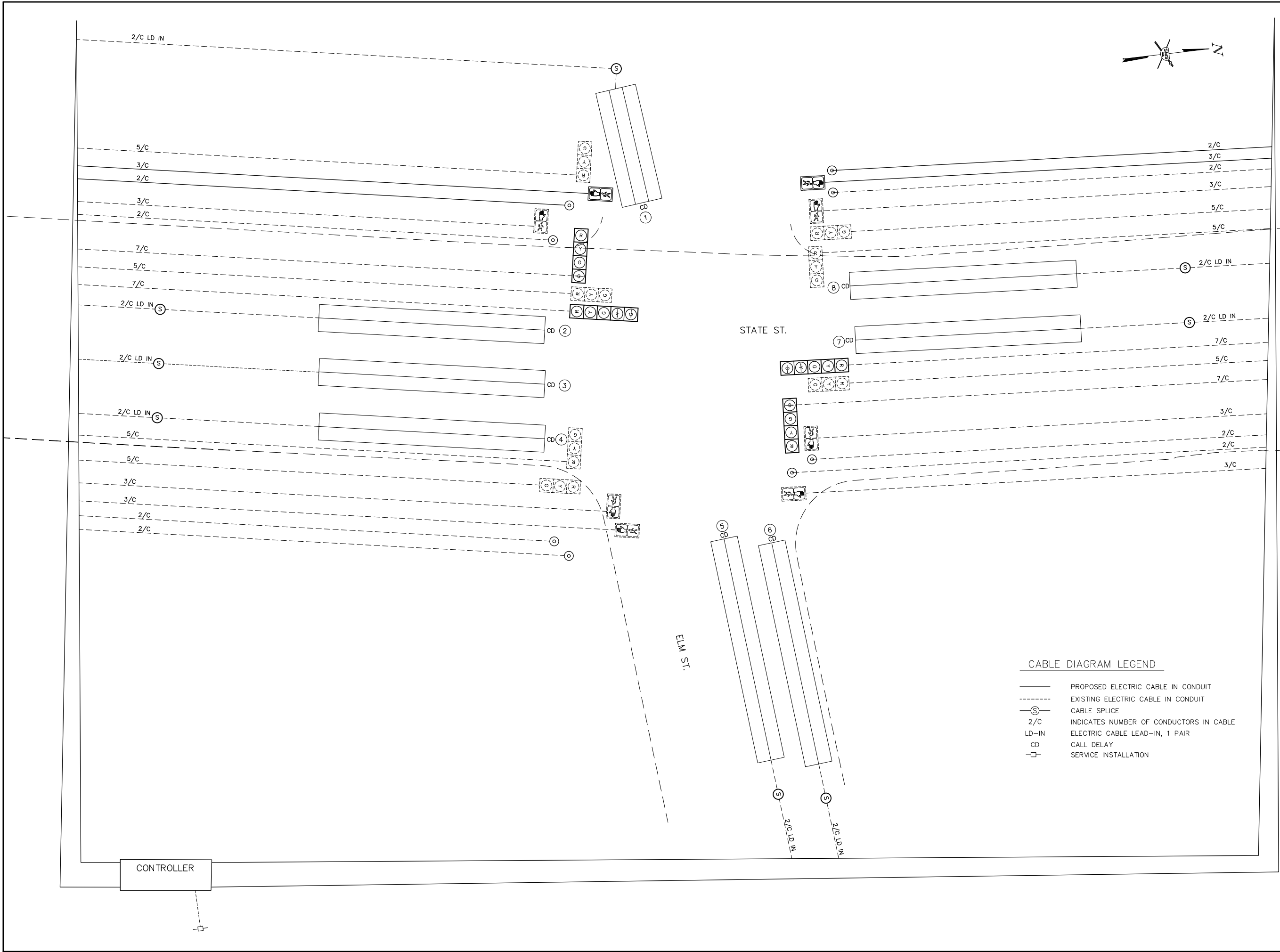
SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
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 215 Market Street, Alton, IL 62002 61844624755 E-mail: mail@smsengineers.com
 DESIGN FIRM # 184-000992

CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 TRAFFIC SIGNAL PLAN - STATE ST. AT ELM ST.

CONTRACT NO. 97725

REF. BK.	PG.
JOB NO. 409793.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: JANUARY, 2020	

SCALE: 1" = 10'
 SHEET 26 OF 28



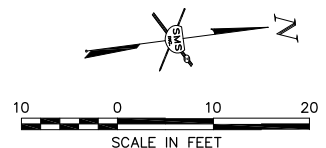
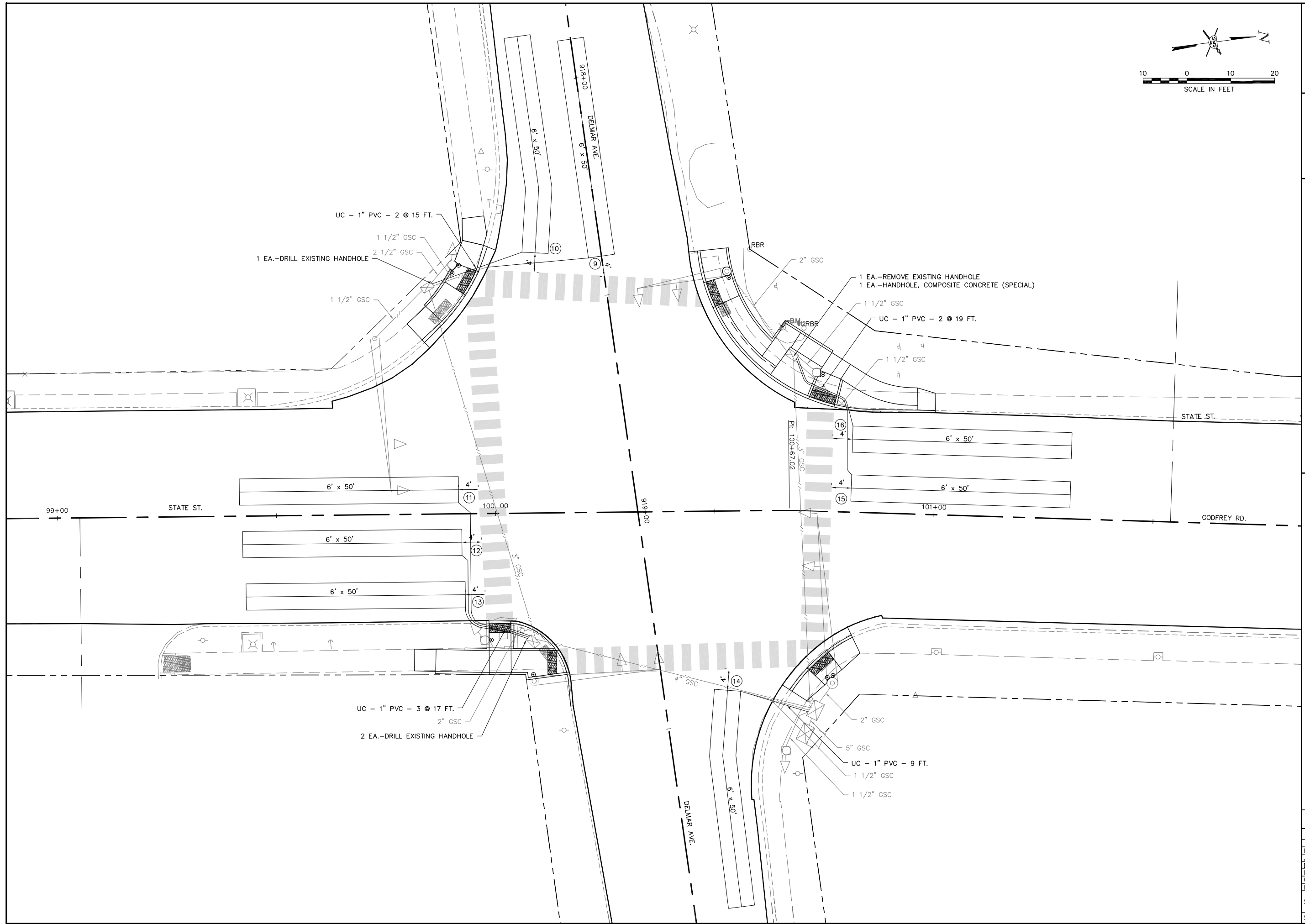
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CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 CABLE DIAGRAM - STATE ST. AT ELM ST.

CONTRACT NO. 97725

REF. BK.	PG.
JOB NO. 409793.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: JANUARY, 2020	
SCALE: 1" = 10'	
SHEET 27 OF 28	



NO.	DESCRIPTION

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CITY OF ALTON, ILLINOIS
 SECTION 16-00238-00-RS
 STATE STREET
 TRAFFIC SIGNAL PLAN - STATE ST. AT DELMAR AVE.

CONTRACT NO.
 97725

REF. BK.	PG.
JOB NO. 409793.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: JANUARY, 2020	