



CONTACT JULIE AT 811  
OR 800-892-0123  
With the following:  
County MADISON  
City / Township CITY OF ALTON  
Sec & 1/4 Sec No. SEC. 4, T5N, R9W  
48 HOURS (2 working days) BEFORE YOU DIG

SITE ADDRESS: IL. RTE. 140 / 111

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

- \*CHARTER COMMUNICATIONS  
101 NORTHWEST PLAZA DR.  
ST. ANN, MO. 63074  
(888) 438-2427
- \*AMEREN CIPS  
700 OAKWOOD AVENUE  
P.O. BOX 478 ALTON, IL 62002  
(618) 463-4043 GAS  
(618) 463-4051 ELECTRIC
- \*AT&T COMMUNICATIONS  
203 GOETHE  
COLLINSVILLE, IL 62234  
(618) 346-6400
- \*ILLINOIS AMERICAN WATER CO.  
4436 INDUSTRIAL DRIVE  
P.O. BOX 186 ALTON, IL 62002  
(618) 466-2131 WATER  
(618) 239-3258 SEWER
- \*ALTON PARKS AND REC. DEPARTMENT  
2 EMMA KAUS LANE  
ALTON, ILLINOIS 62002  
(618) 466-3580  
(618) 466-3530 ELECTRIC AND WATER

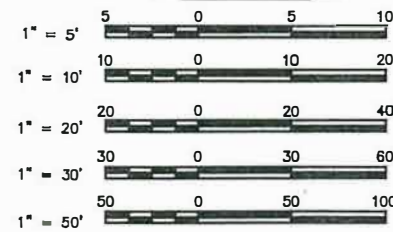
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**HIGHWAY STANDARDS**

001001-02	606001-07	701901-08
280001-07	606301-04	720001-01
442201-03	701006-05	720006-04
542401-03	701011-04	720016-04
542546-01	701101-05	728001-01
602301-04	701301-04	780001-05
602306-03	701421-08	782001-01
602601-06	701501-06	880001-01
604006-05	701701-10	873001-02

**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: IL 140 / 111 - PRINCIPAL ARTERIAL  
PARKER RD. AND SWINNEY ST. - LOCAL RD

DESIGN SPEED: IL 140 / 111 - 55 MPH  
PARKER RD. AND SWINNEY ST. - 30 MPH

ADT: IL 140 / 111 - 15,940  
PARKER RD. - 1,930  
SWINNEY. - 80

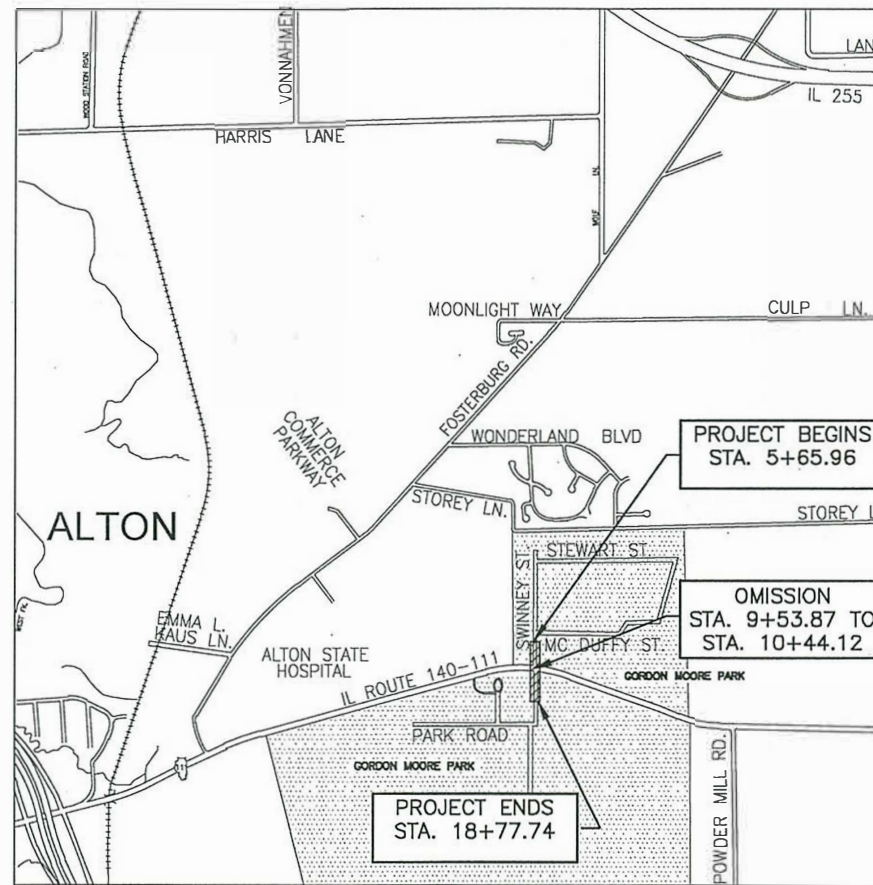
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

03-06-2020 LETTING ITEM 184

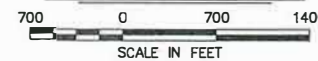
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16-00239-00-PV	MADISON	38	1
FEDERAL AID PROJECT		CONTRACT NO. 97721	

CMAQ FUNDS  
IL. 140 / 111 AT PARKER RD. AND SWINNEY ST.  
INTERSECTION IMPROVEMENTS

SECTION 16-00239-00-PV  
IL 140/111 = ROUTE MUN 24 & FAP 785  
PROJECT RXNP(990)  
CITY OF ALTON, ILLINOIS  
MADISON COUNTY  
JOB C-98-333-16



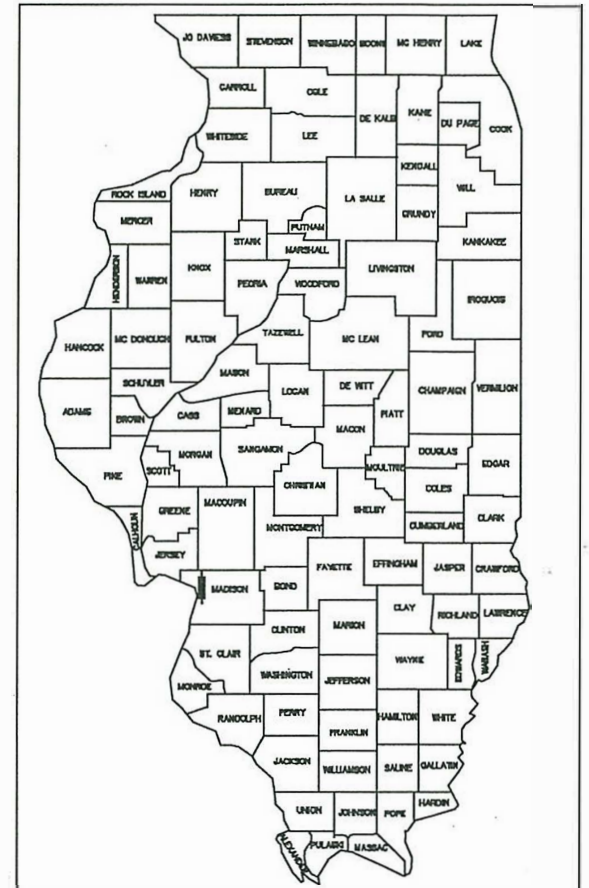
LOCATION MAP



GROSS LENGTH OF PROJECT = 1,311.78 FEET = 0.248 MILES  
NET LENGTH OF PROJECT = 1,221.53 FEET = 0.231 MILES



Sheppard Morgan & Schwaab, Inc.  
CONSULTING ENGINEERS & LAND SURVEYORS  
215 Market Street  
Alton, Illinois 62002  
618/462-9755



LOCATION OF SECTION INDICATED THUS:-

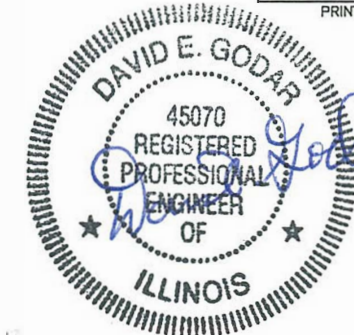
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPROVED: *December 15, 2019*  
*Brent Walker*  
MAYOR

PASSED: *January 3, 2020*  
*Conrad Schaefer*  
DISTRICT 8 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID  
BASED UPON LIMITED  
REVIEW: *January 3, 2020*  
*Keith Roberts*  
REGIONAL ENGINEER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS



DATE SIGNED *12-19-19*  
EXPIRATION DATE *11/30/21*

DECEMBER, 2019



### 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 --□<sup>E</sup>
- EXISTING TELEPHONE SPLICE BOX --△
- EXISTING CABLE SPLICE BOX --□<sup>TV</sup>
- EXISTING WATER HYDRANT --FH
- EXISTING GAS METER --G
- EXISTING WATER METER --W
- EXISTING GAS VALVE --G
- EXISTING FIRE HYDRANT --FH
- EXISTING SANITARY MANHOLE TOP --○
- EXISTING STORM MANHOLE TOP --○
- EXISTING TELEPHONE MANHOLE TOP --○
- EXISTING SANITARY CLEAN OUT --○
- CONTROL POINT --△ XXX
- BENCHMARK --B.M.
- TEST PIT / NUMBER --T.P.# X
- BORING / NUMBER --B.# 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 --P
- EXISTING FENCE POST --F
- EXISTING GATE POST --G
- EXISTING FLAG POLE --F
- EXISTING GUARD POST --GP
- EXISTING ADVERTISING SIGN --T
- EXISTING TRAFFIC SIGN --T
- EXISTING PARKING METER --P
- EXISTING RAILROAD MILE POST --MP
- EXISTING RAILROAD SIGNAL CONTROLLER --S
- EXISTING RAILROAD CROSSING GATE --G
- EXISTING TRAFFIC SIGNAL --S
- EXISTING TRAFFIC SIGNAL CONTROLLER --S
- EXISTING HANDHOLE --H
- EXISTING DOUBLE HANDHOLE --DH
- EXISTING MAST ARM BASE --MAB
- EXISTING DECIDUOUS TREE / SIZE --○ XX"
- EXISTING EVERGREEN TREE / SIZE --● XX"
- EXISTING STUMP / SIZE --F XX"
- EXISTING BUSH --B
- EXISTING SHRUB --S
- EXISTING TREE TO BE REMOVED --X 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 --□<sup>E</sup>
- PROPOSED TELEPHONE SPLICE BOX --△
- PROPOSED CABLE SPLICE BOX --□<sup>TV</sup>
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- PROPOSED SANITARY MANHOLE TOP --○
- PROPOSED STORM MANHOLE TOP --○
- PROPOSED TELEPHONE MANHOLE TOP --○
- PROPOSED SANITARY CLEAN OUT --○
- PROPOSED MAILBOX --P
- PROPOSED GUARD POST --GP
- PROPOSED ADVERTISING SIGN --T
- PROPOSED TRAFFIC SIGN --T
- PROPOSED RAILROAD MILE POST --MP
- PROPOSED RAILROAD SIGNAL CONTROLLER --S
- PROPOSED RAILROAD CROSSING GATE --G
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- PROPOSED TRAFFIC SIGNAL CONTROLLER --S
- PROPOSED HANDHOLE --H
- PROPOSED DOUBLE HANDHOLE --DH
- PROPOSED MAST ARM BASE --MAB
- PROPOSED DECIDUOUS TREE / SIZE --○ XX"
- PROPOSED EVERGREEN TREE / SIZE --● XX"
- PROPOSED BUSH --B
- PROPOSED PLANT --P
- 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%
- BT -- 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

#### EXISTING FEATURES

- EXISTING CENTERLINE
- EXISTING BASELINE
- EXISTING RIGHT-OF-WAY
- EXISTING SECTION LINE
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING SETBACK
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING DITCH
- EXISTING POND, LAKE, BODY OF WATER, ETC.
- EXISTING RAILROAD
- EXISTING BRUSH / HEDGE / TREE LINE
- EXISTING FENCE
- EXISTING GUARDRAIL
- EXISTING CULVERT
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING FORCEMAIN
- EXISTING WATER
- EXISTING UNDERGROUND ELECTRIC
- EXISTING GAS
- EXISTING UNDERGROUND TELEPHONE
- EXISTING FIBER OPTIC
- EXISTING UNDERGROUND CABLE TV
- EXISTING OVERHEAD TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING OVERHEAD CABLE TV

#### PROPOSED FEATURES

- PROPOSED CENTERLINE
- PROPOSED BASELINE
- PROPOSED RIGHT-OF-WAY
- PROPOSED LOT LINE
- PROPOSED EASEMENT
- PROPOSED CONSTRUCTION EASEMENT OR TEMPORARY USE PERMIT
- PROPOSED CONSTRUCTION LIMITS
- PROPOSED SETBACK
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED DITCH
- PROPOSED POND, LAKE, BODY OF WATER, ETC.
- PROPOSED RAILROAD
- PROPOSED FENCE
- PROPOSED GUARDRAIL
- PROPOSED PERIMETER EROSION BARRIER
- PROPOSED CULVERT
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED FORCEMAIN
- PROPOSED WATER
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED UNDERGROUND TELEPHONE
- PROPOSED UNDERGROUND CABLE TV
- PROPOSED OVERHEAD TELEPHONE
- PROPOSED OVERHEAD ELECTRIC
- PROPOSED OVERHEAD CABLE TV

#### 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
CU YD	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
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	TEMPORARY 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
MP	MILE PIPE	VC	VERTICAL CURVE
N	NORTH	VCP	VITRIFIED CLAY PIPE
NE	NORTHEAST	W	WEST
NW	NORTHWEST	WMQ	WATER MAIN QUALITY
O&C	OIL AND CHIP		

#### GENERAL NOTES

- 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.
- SEE TYPICAL SECTION SHEETS FOR TYPICAL SECTION NOTES.
- PLAN QUANTITIES FOR HOT-MIX ASPHALT ITEMS WERE CALCULATED BASED ON USING 112 LBS. / SQ. YD. / IN. AN ADDITIONAL 100 TONS OF HMA BINDER ARE INCLUDED IN THE PLAN QUANTITY TO ACCOUNT FOR VARIATIONS IN THE EXISTING PAVEMENT SURFACE.
- THE CITY OF ALTON PARKS AND RECREATION DEPT. WILL REMOVE AND SALVAGE EXISTING WOODEN SIGNS AND ANY OTHER SIGNS NOT OTHERWISE PROVIDED FOR IN THE SIGNING SCHEDULE.
- FOR SIMPLICITY, STORM SEWER LENGTHS SHOWN ON THE PLANS ARE FROM CENTER TO CENTER OF STRUCTURES. ACTUAL PIPE REQUIRED WILL BE LESS. MEASUREMENT FOR PAYMENT PURPOSES SHALL BE ACCORDING TO ARTICLE 550.09 OF THE STANDARD SPECIFICATIONS.
- 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. OFFSETS FOR ALL END SECTIONS ARE GIVEN TO THE CENTER OF THE END OF THE END SECTION.
- 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 TREE REMOVAL IS TO BE PERFORMED BY THE CITY OF ALTON PRIOR TO CONSTRUCTION. SEE REMOVAL SHEETS FOR TREE LOCATIONS.

#### COMMITMENTS

NONE

#### BENCHMARK INFORMATION

SITE BENCHMARK:  
CUT CROSS ON THE SOUTHWEST CORNER OF AN ELECTRIC PAD, EAST OF PARKER ROAD (CONTROL POINT #11).  
STA. 13+14.97, 47.5' LT.  
ELEV. = 495.53

#### SURVEY CONTROL POINTS

HORIZONTAL CONTROL				
CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP #10	816919.98	2313603.64	491.88	SET REBAR WITH CAP
CP #12	816586.08	2313441.30	493.55	SET CUT CROSS
CP #13	816209.10	2313556.37	489.42	SET REBAR WITH CAP
CP #14	817254.16	2313439.24	494.07	SET REBAR WITH CAP
CP #15	817526.35	2313494.34	489.95	SET REBAR WITH CAP

REVISIONS

**SMS** 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  
 SECTION 16-00239-00-PV  
 IL. 140 / 111 PARKER RD. & SWINNEY ST.  
 INTERSECTION IMPROVEMENTS  
 GENERAL NOTES, LEGENDS & CONTROL POINTS

CONTRACT NO. 97721

REF. BK.	PG.
JOB NO.	409120
DSN. BY:	DEG
DWN. BY:	CDP
CHK. BY:	DEG
DATE:	DEC. 2019

SCALE: NONE  
SHEET 2 OF 38



SUMMARY OF QUANTITIES

	CONSTRUCTION TYPE CODE		0004	
	CODE NO.	ITEM	UNIT	QUANTITY
*	87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
*	87700320	STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1
*	87702600	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 44 FT.	EACH	1
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	3
*	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	43
*	87900200	DRILL EXISTING HANDHOLE	EACH	9
*	88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
*	88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
*	88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
*	88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	3
*	88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
*	88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
*	88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	17
*	88500100	INDUCTIVE LOOP DETECTOR	EACH	2
*	88600100	DETECTOR LOOP, TYPE I	FOOT	912
*	89000200	TEMPORARY TRAFFIC SIGNAL INSTALLATION	L SUM	1
*	89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1
*	89502200	MODIFY EXISTING CONTROLLER	EACH	1
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
*	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
	X0300249	REMOVE EXISTING GATE	EACH	1
	X0301430	PRECAST CONCRETE PARKING BLOCK	EACH	2
	X0321461	PILLAR REMOVAL	EACH	1
	X0327070	REMOVE EXISTING FLAGPOLE	EACH	1

	CONSTRUCTION TYPE CODE		0004	
	CODE NO.	ITEM	UNIT	QUANTITY
	X2501010	SEEDING, CLASS 2 (MODIFIED)	ACRE	0.75
	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	245
	X4402400	CURB REMOVAL (SPECIAL)	FOOT	464
	X6060505	CONCRETE CURB (SPECIAL)	FOOT	70
	X6061460	PAVED DITCH (SPECIAL)	FOOT	40
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	2,438
*	X8100105	CONDUIT SPLICE	EACH	4
*	X8140115	HANDHOLE TO BE ADJUSTED	EACH	1
*	Z0036200	PAINT CURB	FOOT	212
	Z0056648	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	FOOT	22

\* DENOTES SPECIALTY ITEM

REVISIONS									
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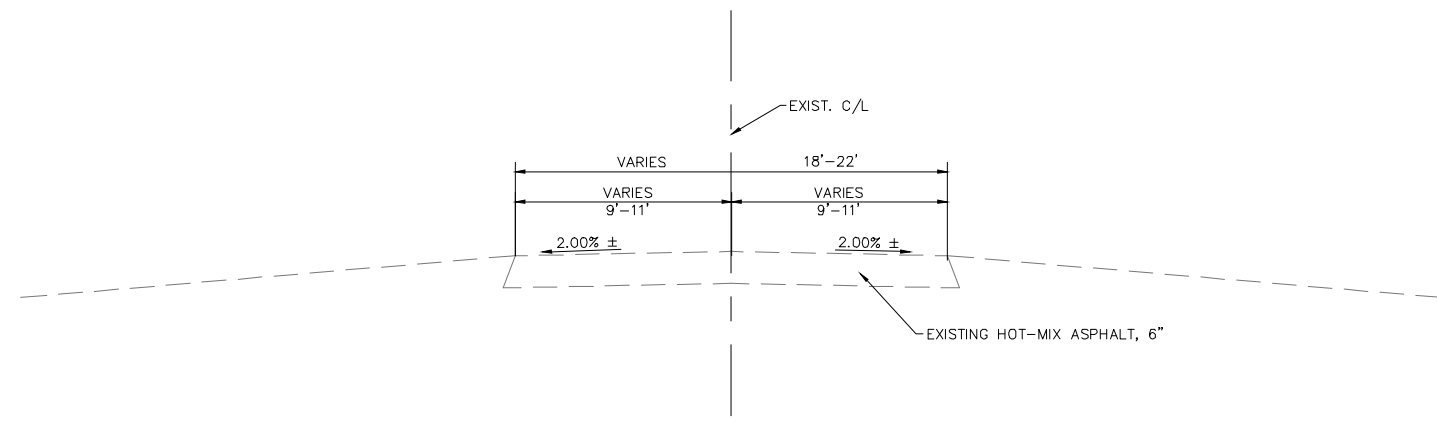

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 215 Market Street, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com  
 DESIGN FIRM # 184-000992

CITY OF ALTON  
 SECTION 16-00239-00-PV  
 IL 140 / 111 PARKER RD. & SWINNEY ST.  
 INTERSECTION IMPROVEMENTS  
 SUMMARY OF QUANTITIES

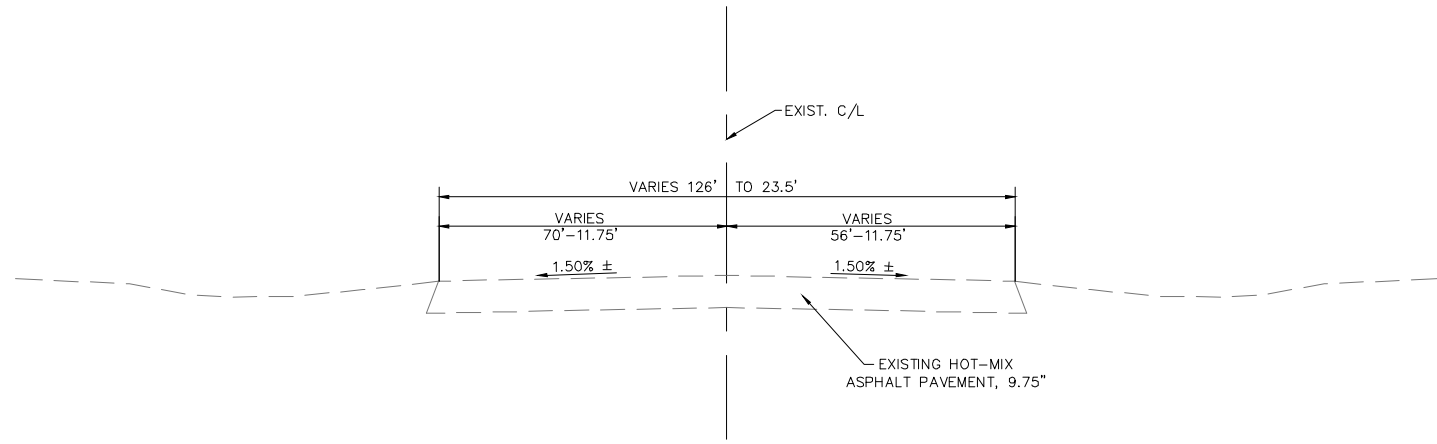
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MOORE PARK QUANTITIES.DWG	
REF. BK.	PG.
JOB NO. 409120	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: DEC. 2019	
SCALE: NONE	
SHEET 4 OF 38	



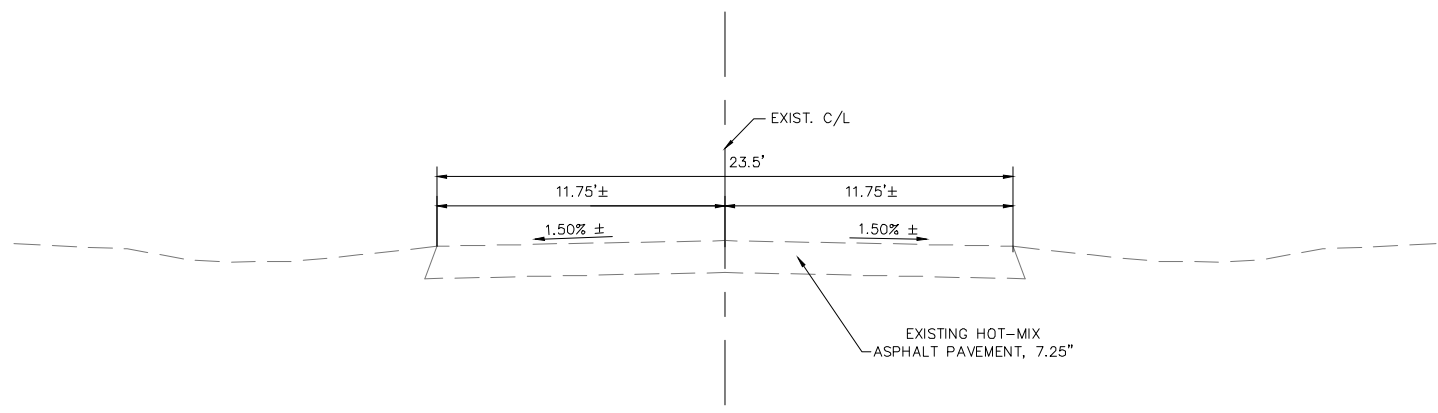
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**EXISTING TYPICAL SECTION  
SWINNEY STREET**  
STA. 5+65.96 TO STA. 9+53.87



**EXISTING TYPICAL SECTION  
PARKER ROAD**  
STA. 10+44.12 TO STA. 12+93



**EXISTING TYPICAL SECTION  
PARKER ROAD**  
STA. 12+93 TO STA. 16+70

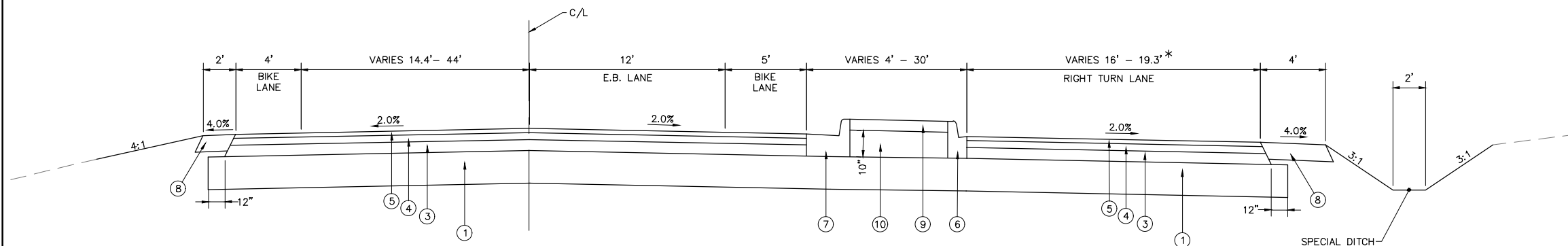
REVISIONS

**SMS ENGINEERS**  
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CITY OF ALTON  
SECTION 16-00239-00-PV  
IL. 140 / 111 PARKER RD. & SWINNEY ST.  
INTERSECTION IMPROVEMENTS  
EXISTING TYPICAL SECTIONS

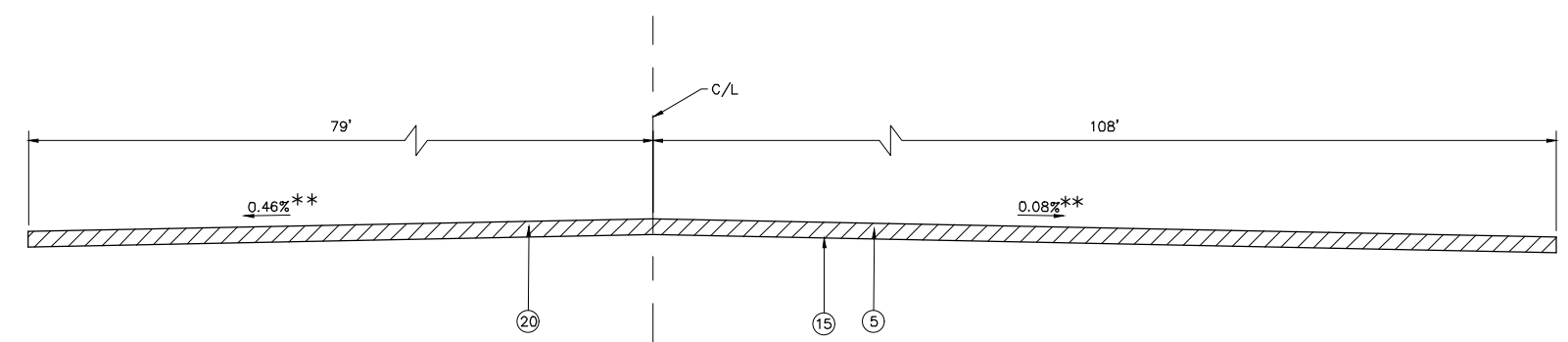
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REF. BK.	PG.
JOB NO.	409120
DSN. BY:	DEG
DWN. BY:	CDP
CHK. BY:	DEG
DATE:	DEC. 2019
SCALE: VERT: 1" = 4'	
SHEET	5 OF 38





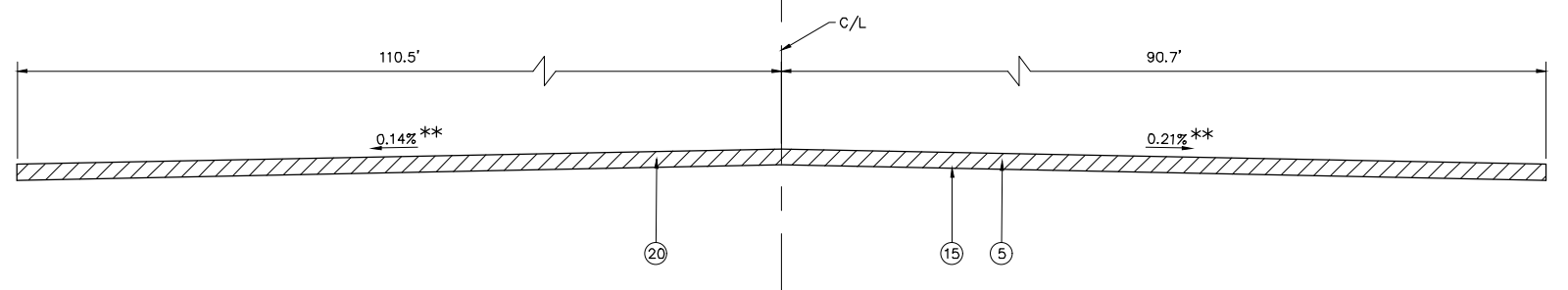
**PROPOSED TYPICAL SECTION  
SWINNEY STREET**  
STA. 8+86.12 TO STA. 9+43.87

\* DIMENSION IS PERPENDICULAR TO THE TURN LANE



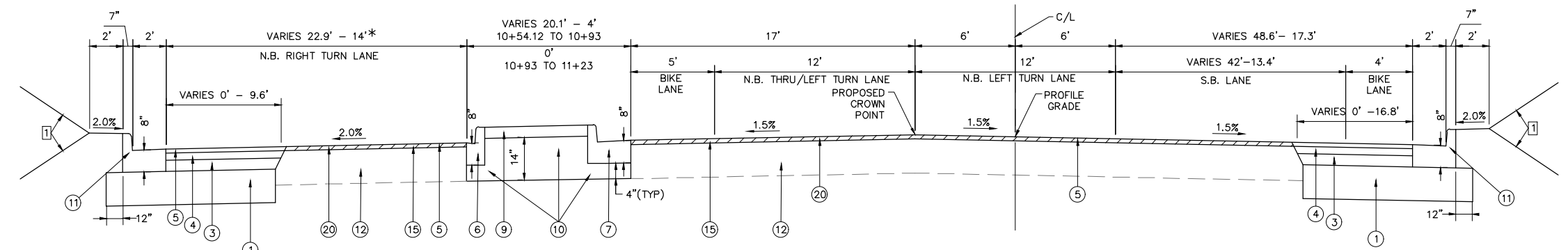
**PROPOSED TYPICAL SECTION  
SWINNEY STREET**  
STA. 9+43.87 TO STA. 9+53.87

\*\* MATCH EXISTING EDGE OF PAVEMENT  
ALONG IL. 140/111



**PROPOSED TYPICAL SECTION  
PARKER ROAD**  
STA. 10+44.12 TO STA. 10+54.12

\*\* MATCH EXISTING EDGE OF PAVEMENT  
ALONG IL. 140/111



**PROPOSED TYPICAL SECTION  
PARKER ROAD**  
STA. 10+54.12 TO STA. 11+23

\* DIMENSION IS PERPENDICULAR TO THE TURN LANE

**PAVING LEGEND**

- ① PROCESSING MODIFIED SOIL, 12"
- ② PROPOSED PAVEMENT REMOVAL SHOWN AS [diagonal hatching]
- ③ PROPOSED HMA BINDER COURSE, IL-19.0, N50 (4")
- ④ PROPOSED HMA BINDER COURSE, IL-19.0, N50 (2-1/2")
- ⑤ PROPOSED HMA SURFACE COURSE, MIX "C" N50 (1-1/2")
- ⑥ PROPOSED COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.06
- ⑦ PROPOSED COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24
- ⑧ PROPOSED AGGREGATE SHOULDERS, TYPE B, 6"
- ⑨ PROPOSED CONCRETE MEDIAN SURFACE, 4"
- ⑩ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B (VARIES 10" TO 14")
- ⑪ PROPOSED COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24
- ⑫ EXISTING HMA PAVEMENT (VARIES 7-1/4" TO 9-3/4")
- ⑬ EXISTING HMA PAVEMENT (7 1/4")
- ⑭ PROPOSED HMA SURFACE REMOVAL, VARIABLE DEPTH SHOWN AS [diagonal hatching]
- CROWN CORRECTION NOTES:  
STA. 11+23 TO STA. 12+93 - MILL LEFT SIDE ONLY, DEPTH AT C/L = 0 AND HOLD 1.50% CROSS SLOPE.
- ⑮ PROPOSED BITUMINOUS MATERIALS (TACK COAT) (SSI-VH)
- ⑯ PROPOSED AGGREGATE BASE COURSE, TYPE A, 8"
- ⑰ PROPOSED COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12
- ⑱ PROPOSED INCIDENTAL HOT-MIX ASPHALT SURFACING
- ⑲ EXISTING HMA PAVEMENT (PARKING LOT)
- ⑳ PROPOSED HMA SURFACE REMOVAL, BUTT JOINT, SHOWN AS [diagonal hatching]
- SEE BUTT JOINT DETAIL ON PROFILE

**TYPICAL SECTION NOTES**

- ① TYPICAL SLOPE IS 4:1 MAXIMUM. SEE CROSS SECTIONS FOR GRADING
- ② OUTER LANE TO HOLD 2.0% CROSS SLOPE

MIX DESIGNS			
MIXTURE USE	SURFACE	BINDER	INCIDENTAL
AC/PG	PG 64-22	PG 64-22	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-19.0	----
FRICTION AGG.	MIX C	MIX C	MIX C

\* SEE SPECIAL PROVISIONS

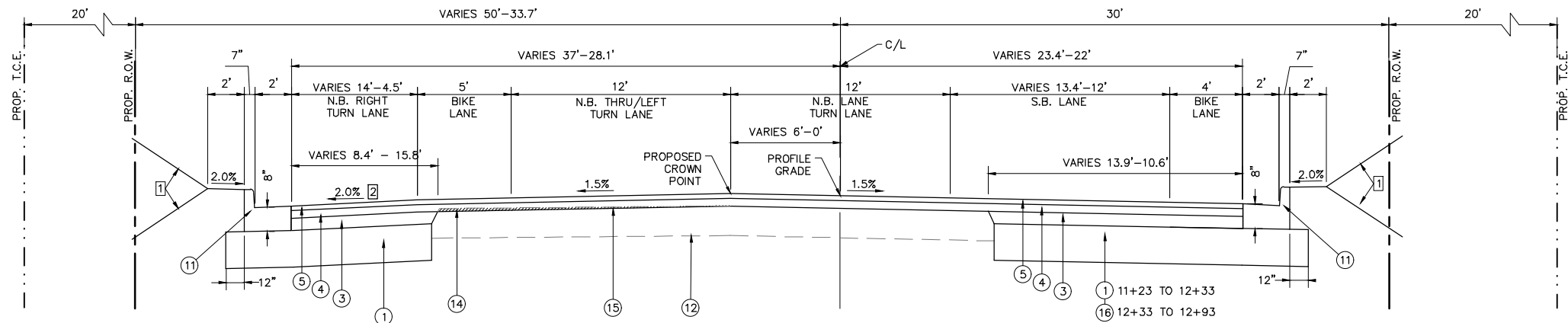
REVISIONS
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**SMS** Sheppard, Morgan & Schwaab, Inc.  
CONSULTING ENGINEERS AND LAND SURVEYORS  
215 Market Street, Alton, IL 62002 618-462-9755 E-mail: mail@smsengineers.com  
DESIGN FIRM # 184-000992

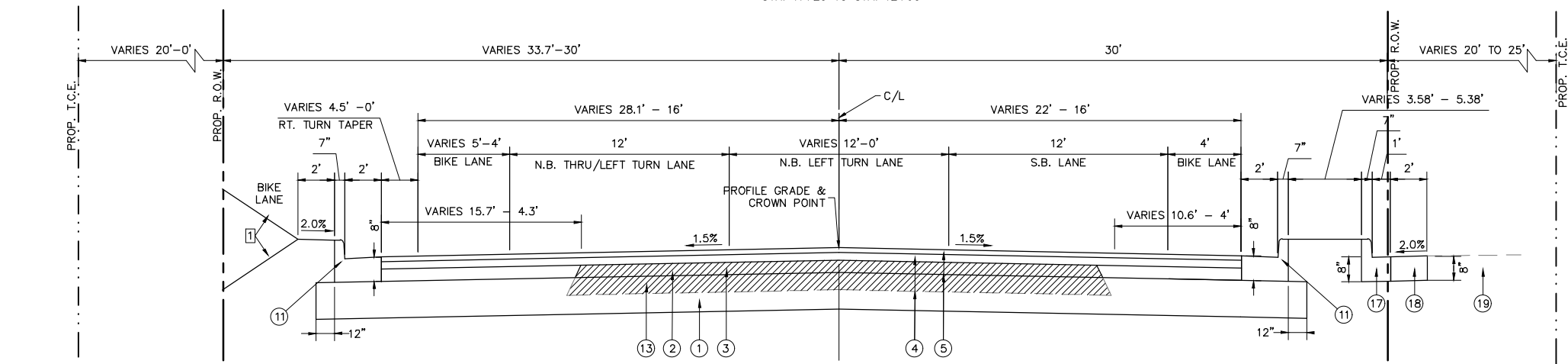
CITY OF ALTON  
SECTION 16-00239-00-PV  
IL. 140 / 111 PARKER RD. & SWINNEY ST.  
INTERSECTION IMPROVEMENTS  
PROPOSED TYPICAL SECTIONS

CONTRACT NO.	97721
MOORE PARK PP2018.DWG	
REF. BK.	PG.
JOB NO.	409120
DSN. BY:	DEG
DWN. BY:	CDP
CHK. BY:	DEG
DATE:	DEC. 2019
HORZ:	1" = 4'
SCALE: VERT:	1" = 2'
SHEET	7 OF 38

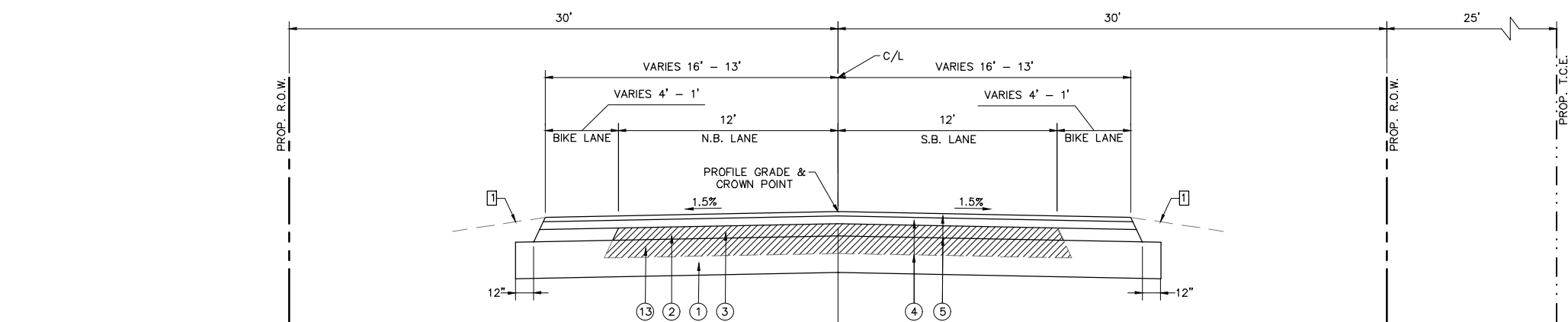




**PROPOSED TYPICAL SECTION  
PARKER ROAD**  
STA. 11+23 TO STA. 12+93



**PROPOSED TYPICAL SECTION  
PARKER ROAD**  
STA. 12+93 TO STA. 15+90



**PROPOSED TYPICAL SECTION  
PARKER ROAD**  
STA. 15+90 TO STA. 16+70 (END PAVING)

**PAVING LEGEND**

- ① PROCESSING MODIFIED SOIL, 12"
- ② PROPOSED PAVEMENT REMOVAL SHOWN AS [Hatched Box]
- ③ PROPOSED HMA BINDER COURSE, IL-19.0, N50 (4")
- ④ PROPOSED HMA BINDER COURSE, IL-19.0, N50 (2-1/2")
- ⑤ PROPOSED HMA SURFACE COURSE, MIX "C" N50 (1-1/2")
- ⑥ PROPOSED COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.06
- ⑦ PROPOSED COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24
- ⑧ PROPOSED AGGREGATE SHOULDERS, TYPE B, 6"
- ⑨ PROPOSED CONCRETE MEDIAN SURFACE, 4"
- ⑩ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B (VARIES 10" TO 14")
- ⑪ PROPOSED COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24
- ⑫ EXISTING HMA PAVEMENT (VARIES 7-1/4" TO 9-3/4")
- ⑬ EXISTING HMA PAVEMENT (7 1/4")
- ⑭ PROPOSED HMA SURFACE REMOVAL, VARIABLE DEPTH SHOWN AS [Hatched Box]  
CROWN CORRECTION NOTES:  
STA. 11+23 TO STA. 12+93 - MILL LEFT SIDE ONLY, DEPTH AT C/L = 0 AND HOLD 1.50% CROSS SLOPE.
- ⑮ PROPOSED BITUMINOUS MATERIALS (TACK COAT) (SSI-VH)
- ⑯ PROPOSED AGGREGATE BASE COURSE, TYPE A, 8"
- ⑰ PROPOSED COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12
- ⑱ PROPOSED INCIDENTAL HOT-MIX ASPHALT SURFACING
- ⑲ EXISTING HMA PAVEMENT (PARKING LOT)
- ⑳ PROPOSED HMA SURFACE REMOVAL, BUTT JOINT, SHOWN AS [Hatched Box]  
SEE BUTT JOINT DETAIL ON PROFILE

**TYPICAL SECTION NOTES**

- ① TYPICAL SLOPE IS 4:1 MAXIMUM. SEE CROSS SECTIONS FOR GRADING
- ② OUTER LANE TO HOLD 2.0% CROSS SLOPE

**MIX DESIGNS**

MIXTURE USE	SURFACE	BINDER	INCIDENTAL
AC/PG	PG 64-22	PG 64-22	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-19.0	----
FRICITION AGG.	MIX C	MIX C	MIX C
*SEE SPECIAL PROVISIONS			

REVISIONS
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JOB NO. 409120
DSN. BY: DEG
DWN. BY: CDP
CHK. BY: DEG
DATE: DEC. 2019
HORZ: 1" = 4'
SCALE: VERT: 1" = 2'
SHEET 8 OF 38

Q:\CIVIL\_3D PROJECTS\ALTON GORDON MOORE PARK (409120)\Production Drawings\MOORE PARK SCHEDULES.dwg, 12/17/2019 9:45:09 AM, cpruitt, 1:2

REMOVAL SCHEDULE															
LOCATION	LOCATION	SIDE	REM. & DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	HMA SURFACE REMOVAL BUTT JOINT (SQ YD)	PAVEMENT REMOVAL (SQ YD)	STORM SEWER REMOVAL 12" (FOOT)	STORM SEWER REMOVAL 15" (FOOT)	STORM SEWER REMOVAL 18" (FOOT)	STORM SEWER REMOVAL 21" (FOOT)	REMOVING INLETS (EACH)	REMOVE EXISTING GATE (EACH)	PILLAR REMOVAL (EACH)	REMOVE EXISTING FLAGPOLE (EACH)	HMA SURFACE REMOVAL VARIABLE DEPTH (SQ YD)	CURB REMOVAL SPECIAL (FOOT)
SWINNEY STREET															
STA 5+65.96	STA 9+53.87		25												
STA 9+43.87	STA 9+53.87			202											
STA 5+65.96	STA 9+53.87				856										
STA 8+27		LT										1			
PARKER ROAD															
STA 10+44.12	STA 16+70		25												
STA 10+44.12	STA 11+23			606											
STA 12+93	STA 16+70				1680										
STA 14+55	STA 16+00	RT				144									
STA 16+00	STA 16+85	RT					86								
STA 16+85	STA 18+73	RT						92							
STA 18+73	STA 18+73	LT/RT							35						
STA 14+55	STA 18+73	RT								4					
STA 11+70		LT/RT									1				
STA 11+92		RT											1		
STA 11+23	STA 12+93													245	
STA 12+30	STA 17+50	RT													286
STA 13+25	STA 14+55	LT													178
TOTAL:			50	808	2,536	144	86	92	35	4	1	1	1	245	464

DRAINAGE STRUCTURE SCHEDULE							
LOCATION	OFFSET	STRUCTURE NUMBER	FLUSH INLET BOX FOR MEDIAN, STD. 542546 (EACH)	METAL FLARED END SECTIONS		INLETS	
				12" (EACH)	18" (EACH)	TY. A TY. 3 F&G (EACH)	TY. B TY. 3 F&G (EACH)
Sta 6+50 RT.	21.50 FT	9		1			
Sta 6+50 LT.	23.50 FT	10		1			
Sta 14+48 RT.	21.64 FT	1				1	
Sta 14+62.40 RT.	28.80 FT	2					1
Sta 15+83.50 RT.	17.77 FT	3					1
Sta 15+83.50 LT.	29.61 FT	4				1	
Sta 16+87.22 RT.	19.44 FT	5	1				
Sta 17+60 RT.	19.00 FT	6	1				
Sta 18+74.43 RT.	18.50 FT	7	1				
Sta 18+75.46 LT.	21.00 FT	8			1		
TOTALS				3	2	1	2

STORM SEWER SCHEDULE								
PIPE NO.	STRUCTURES	PLAN LENGTH (FOOT)	PIPE CULVERTS, SPECIAL 12" (FOOT)	STORM SEWERS, CLASS B			STORM SEWER, TY 1 WMQ, 12" (FOOT)	TRENCH BACKFILL (CY. YD.)
				TYPE 1 12" (FOOT)	TYPE 1 15" (FOOT)	TYPE 1 18" (FOOT)		
1	1 TO 2	16		16				1
2	2 TO 3	122		100			22	10
3	4 TO 3	12		12				2
4	3 TO 5	104			104			5
5	5 TO 6	73				73		13
6	6 TO 7	114				114		0
7	7 TO 8	39				39		3
8	9 TO 10	45	45					3
TOTALS		525	45	128	104	226	22	37

REVISIONS															
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DSN. BY:	DEG
DWN. BY:	CDP
CHK. BY:	DEG
DATE:	DEC. 2019
SCALE:	NONE
SHEET	9 OF 38

CONCRETE SCHEDULE											
LOCATION	LOCATION	SIDE	CLASS SI CONCRETE (OUTLET) (CU YD)	CONCRETE CURB TYPE B (FOOT)	COMB CURB AND GUTTER TYPE B-6.06 (FOOT)	COMB CURB AND GUTTER TYPE B-6.12 (FOOT)	COMB CURB AND GUTTER TYPE B-6.24 (FOOT)	CONCRETE MEDIAN SURFACE, 4" (SQ FT)	PRECAST CONCRETE PARKING BLOCK (EACH)	CONCRETE CURB (SPECIAL) (FOOT)	PAVED DITCH (SPECIAL) (FOOT)
SWINNEY STREET											
STA 8+95	STA 9+45	RT						722			
STA 8+95	STA 9+45	RT			49						
STA 8+95	STA 9+45	RT					82				
PARKER ROAD											
STA 10+44	STA 16+70	LT					536				
STA 10+44	STA 16+70	RT					554				
STA 10+55	STA 10+85	LT						281			
STA 10+55	STA 10+85				29						
STA 10+55	STA 10+85						52				
STA 10+77		RT									16
STA 10+93		LT									24
STA 10+50	STA 15+90	LT									
STA 10+50	STA 15+90	RT									
STA 12+50	STA 15+90	RT					285				
STA 12+50	STA 15+90	LT					65				
STA 13+50		LT							2		
STA 14+60	STA 15+15	RT		79							
STA 15+80		LT	1.1								
STA 16+85	STA 17+53	RT								70	
TOTAL:			1.1	79	78	350	1,224	1,003	2	70	40

PAVEMENT ITEMS SCHEDULE													
LOCATION	LOCATION	PROCESSING MODIFIED SOIL, 12" (SQ. YD.)	LIME (TON)	SUBBASE GRANULAR MATERIAL, TYPE B (TON)	AGGREGATE BASE COURSE, TYPE A 8" (SQ. YD.)	AGGREGATE FOR TEMPORARY ACCESS (TON)	BITUMINOUS MATERIALS (TACK COAT) (POUND)	TEMPORARY RAMP (SQ. YD.)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (TON)	HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N50 (TON)	INCIDENTAL HOT-MIX ASPHALT SURFACING (TON)	CLASS D PATCHES, TYPE III, 8 INCH (SQ. YD.)	AGGREGATE SHOULDERS, TYPE B 6" (SQ. YD.)
SWINNEY ST.													
STA. 5+65	STA. 9+38	2,003	57	86	0	0	91	0	629	161	30	0	193
PARKER RD.													
STA. 9+64	STA. 16+70	2,893	82	80	107	80	273	183	931	290	153	15	0
ADDITIONAL ALLOWANCE									100				
TOTAL:		4,896	139	166	107	80	364	183	1,660	451	183	15	193

PAVEMENT MARKING SCHEDULE												
LOCATION	LOCATION	SIDE	SHORT TERM PAVEMENT MARKING (FOOT)	SHORT TERM PAVEMENT MARKING REMOVAL (SQ FT)	THERMO PVMT MARKING LETTERS AND SYMBOLS (SQ FT)	THERMO PVMT MARKING LINE 4" (SQ FT)	THERMO PVMT MARKING LINE 8" (SQ FT)	THERMO PVMT MARKING LINE 12" (SQ FT)	THERMO PVMT MARKING LINE 24" (SQ FT)	CURB REFLECTORS (EACH)	TEMPORARY PAVEMENT MARKING REMOVAL (SQ FT)	PAINT CURB (FOOT)
SWINNEY STREET												
STA 5+65	STA 9+38		360	120	128	1,595	268	52	30	18	950	131
PARKER ROAD												
STA 9+64	STA 16+70		810	270	223.2	2,833	191	69	62	14	1,488	81
TOTAL:			1,170	390	351.2	4,428	459	121	92	32	2,438	212

EARTHWORK SCHEDULE				
LOCATION	EARTH EXCAVATION (CUT) (CU. YD.)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE * (CU. YD.)	EMBANKMENT (FILL) (CU. YD.)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU. YD.)
STA. 5+65.96 TO STA. 9+43.87	226	170	195	-26
STA. 10+44.12 TO 18+74.85	424	318	209	109
<b>Total :</b>	<b>650</b>	<b>488</b>	<b>404</b>	<b>84</b>

\* ASSUME SHRINKAGE FACTOR = 25%

REVISIONS											
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JOB NO. 409120
DSN. BY: DEG
DWN. BY: CDP
CHK. BY: DEG
DATE: DEC. 2019
SCALE: NONE
SHEET 10 OF 38




SIGNING SCHEDULE								
LOCATION STATION	LEGEND OR TYPE	MUTCD SIGN DESIGNATION	SIZE W X H (INCHES)	SIGN PANEL TYPE 1 (SQ. FT.)	SIGN PANEL TYPE 2 (SQ. FT.)	RELOCATE SIGN PANEL TYPE 1 (SQ.FT.)	TELESCOPING STEEL SIGN SUPPORT (FOOT)	NOTES
5+00 RT.	"BIKE LANE"	R3-17	24" X 18"	3.00			15.7	
	"AHEAD"	R3-17aP	24" X 8"	1.33				
6+36 RT.	"BIKE LANE"	R3-17	24" X 18"	3.00			15.0	
6+36 LT.	"BIKE LANE"	R3-17	24" X 18"	3.00			15.7	
	"ENDS"	R3-17bP	24" X 8"	1.33				
6+70 RT.	"BEGIN RIGHT TURN LANE YIELD TO BIKES"	R4-4	36"X30"	7.50			15.5	
7+50 LT.	"SPEED LIMIT 20"	R2-1	24" X 30"			5.0		RELOCATED FROM 9+25 LT.
8+23 RT.	"RIGHT LANE MUST TURN RIGHT"	R3-7R	30"X30"	6.25			15.5	
8+95 LT.	"BIKE LANE"	R3-17	24" X 18"	3.00			14.5	
9+35 LT.	"HISTORICAL MARKER"		24" X 12"			2.0		RELOCATED FROM 9+40 LT.
9+35 LT.	"ARROW"		12" X 12"			1.0		RELOCATED FROM 9+40 LT.
9+45 RT.	"PARKER RD /SWINNEY ST"		72"X24"		12.0		0.0	SEE TRAFFIC SIGNAL PLANS
9+75 RT.	"LEFT TURN YIELD ON GREEN"	R10-12	30"X36"			7.5	0.0	SEE TRAFFIC SIGNAL PLANS RELOCATED FROM OLD MAST ARM
10+25 LT.	"LEFT TURN YIELD ON GREEN"	R10-12	30"X36"			7.5	0.0	SEE TRAFFIC SIGNAL PLANS RELOCATED FROM OLD MAST ARM
10+60	"SWINNEY ST/PARKER RD"		72"X24"		12.0		0.0	SEE TRAFFIC SIGNAL PLANS
11+05 RT.	"BIKE LANE"	R3-17	24" X 18"	3.00			14.5	
12+27 LT.	"RIGHT LANE MUST TURN RIGHT"	R3-7R	30"X30"	6.50			15.5	
12+50 RT.	"SPEED LIMIT 20"	R2-1	24"X30"			5.0	15.5	RELOCATED FROM STA. 10+75 RT.
13+80 LT.	"BEGIN RIGHT TURN LANE YIELD TO BIKES"	R4-4	36"X30"	7.50			15.5	
15+90 RT.	"BIKE LANE"	R3-17	24" X 18"	3.00			15.7	
	"ENDS"	R3-17bP	24" X 8"	1.33				
15+90 LT.	"BIKE LANE"	R3-17	24" X 18"	3.00			14.5	
16+10 RT.	"DOG SIGN"		12" X 12"			1.0		SIGNS ON SAME POST
16+10 RT.	"DOG SIGN"		12" X 12"			1.0		
16+50 RT.	"SPEED LIMIT 20"	R2-1	24" X 30"			5.0	17.5	RELOCATED FROM STA. 15+19 RT.
	"NO PARKING ON GRASS"		18"X24"			3.0		
17+50 LT.	"BIKE LANE"	R3-17	24" X 18"	3.00			15.7	
	"AHEAD"	R3-17aP	24" X 8"	1.33				
TOTAL				57.1	24	38	216.3	

**SIGN SCHEDULE NOTES**

1. ALL SIGNS SHALL BE LOCATED PER HIGHWAY STANDARD 720006 UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. WOODEN INFORMATION SIGNS AT STA. 15+08 RT. AND STA. 15+35 RT. WILL BE RELOCATED BY THE CITY OF ALTON DURING CONSTRUCTION.

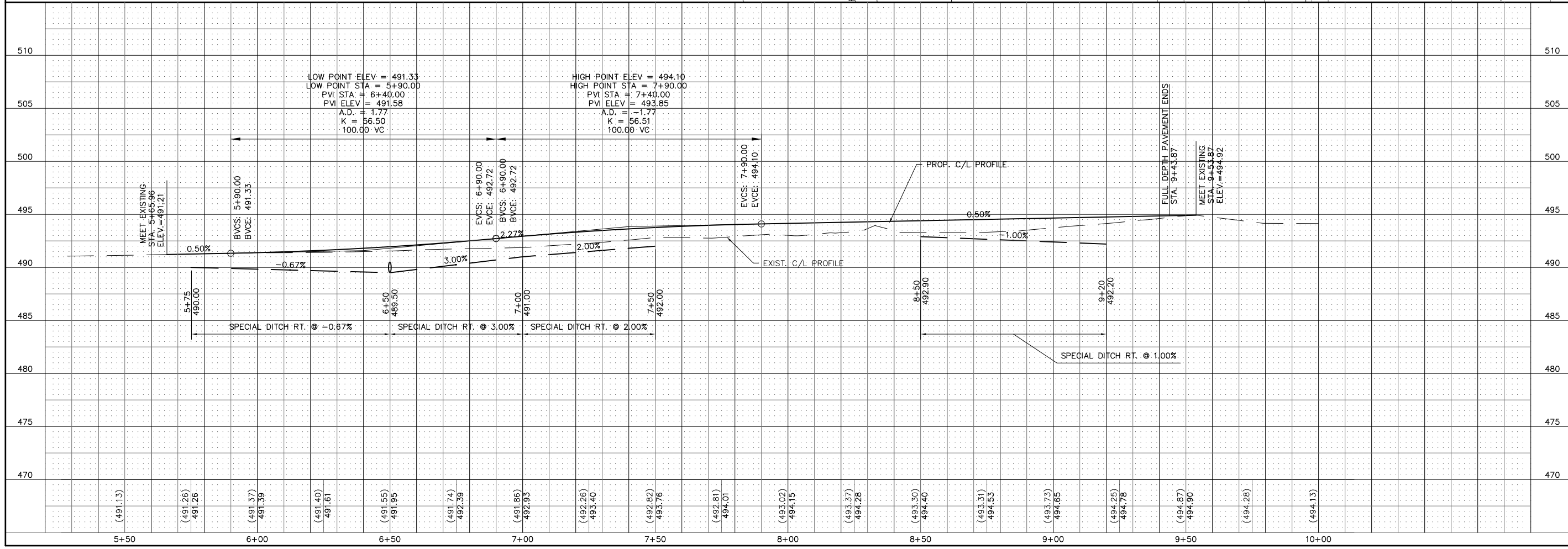
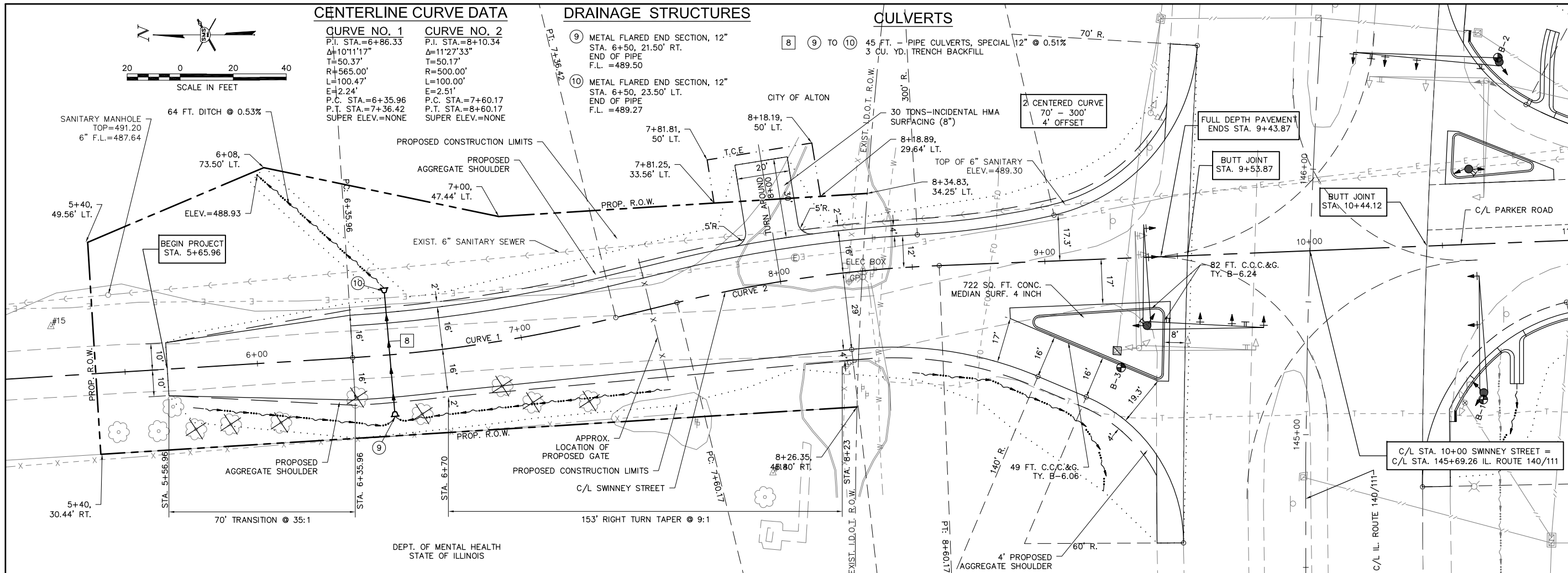
EROSION CONTROL AND SEEDING SCHEDULE											
LOCATION	LOCATION	TEMPORARY EROSION CONTROL SEEDING (POUND)	TEMPORARY DITCH CHECKS (FOOT)	PERIMETER EROSION BARRIER (FOOT)	INLET & PIPE PROTECTION (EACH)	SEEDING, CLASS 2 (MODIFIED) (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	MULCH, METHOD 2 (ACRE)	EROSION CONTROL BLANKET (SQ YD)
STA. 5+65.96	STA. 18+77.74	300									
SWINNEY ST											
STA. 5+65.96	STA. 9+53.87		30	410	1	0.25	18	18	18	0.25	96
PARKER RD											
STA. 9+53.87	STA. 18+77.74		10	266	10	0.5	36	36	36	0.5	60
TOTAL:		300	40	676	11	0.75	54	54	54	0.75	156

REVISIONS									
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 SCALE: NONE  
 SHEET 11 OF 38



REVISIONS

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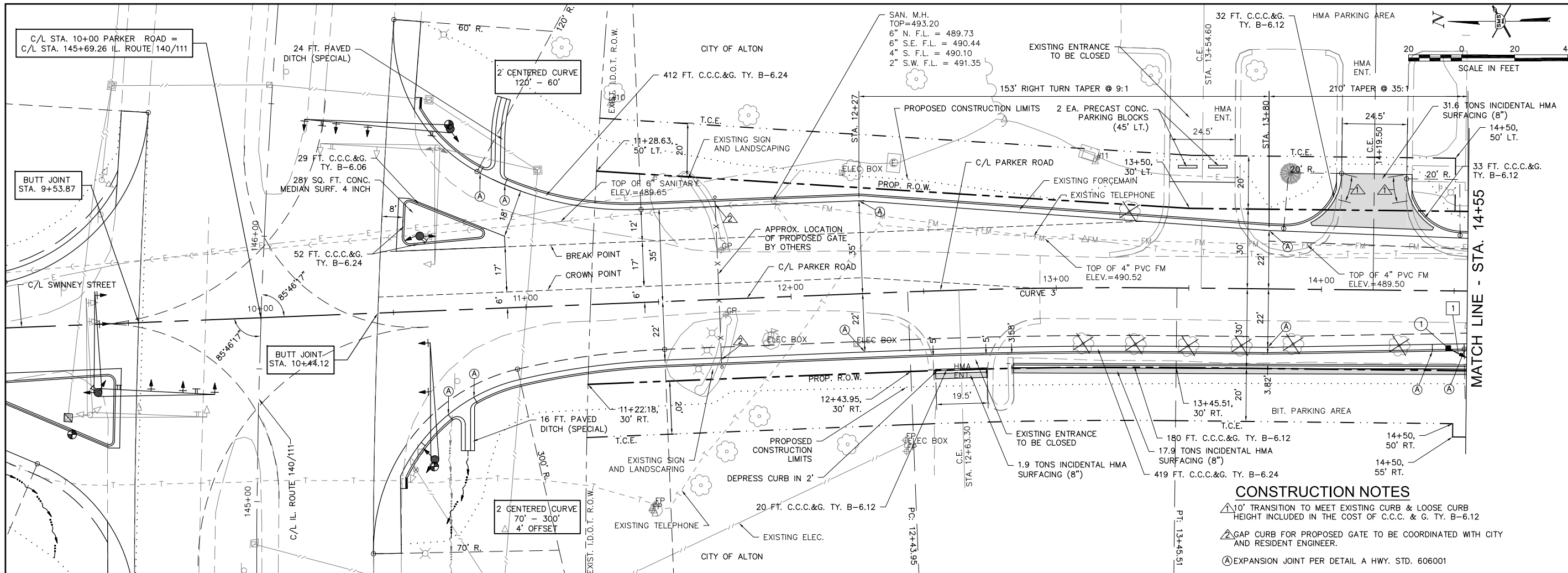
CITY OF ALTON  
SECTION 16-00239-00-PV  
IL. 140 / 111 PARKER RD. & SWINNEY ST.  
INTERSECTION IMPROVEMENTS  
PLAN AND PROFILE

CONTRACT NO. 97721  
MOORE PARK PP2018.DWG

REF. BK.	PG.
JOB NO. 409120	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: DEC. 2019	

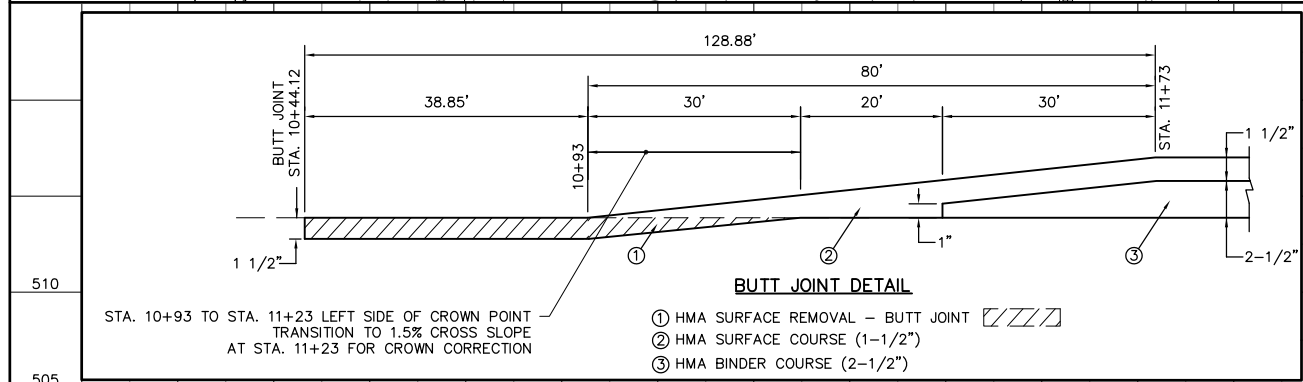
HORIZ: 1" = 20'  
SCALE: VERT: 1" = 5'

SHEET 12 OF 38



REVISIONS

**SMS ENGINEERS**  
 Sheppard, Morgan & Schwab, Inc.  
 CONSULTING ENGINEERS AND LAND SURVEYORS  
 215 Market Street, Alton, IL 62002, 6184629755 E-mail: mail@smsengineers.com  
 DESIGN FIRM # 184-000992



**DRAINAGE STRUCTURES**

① INLET TY. A-3  
 STA. 14+48, 21.64' RT.  
 T.C. = 492.42  
 12" S. F.L. = 489.92

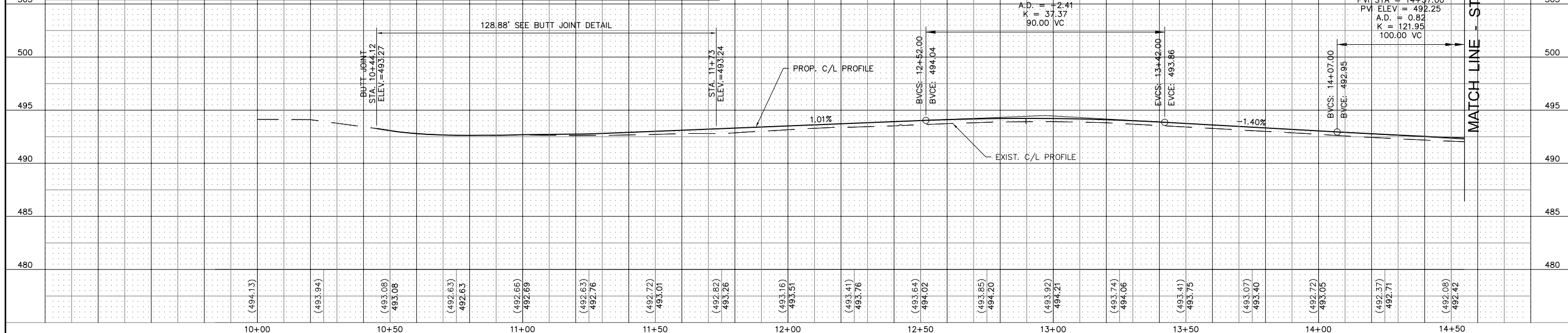
**STORM SEWERS**

① TO ② 16 FT. - STORM SEWERS, CL. B, TY. 1, 12" @ 3.06%  
 1 CU. YD. TRENCH BACKFILL

**CENTERLINE CURVE DATA**

**CURVE NO. 3**  
 P.I. STA = 12+94.74  
 Δ = 02°54'54"  
 T = 50.79'  
 R = 2,000'  
 L = 101.56'  
 E = 0.64'  
 P.C. STA = 12+43.95  
 P.T. STA = 13+45.51  
 SUPER ELEV. = NONE

LOW POINT ELEV = 491.96  
 LOW POINT STA = 15+07.00  
 PVI STA = 14+57.00  
 PVI ELEV = 492.25  
 A.D. = 0.82  
 K = 121.95  
 100.00 VC



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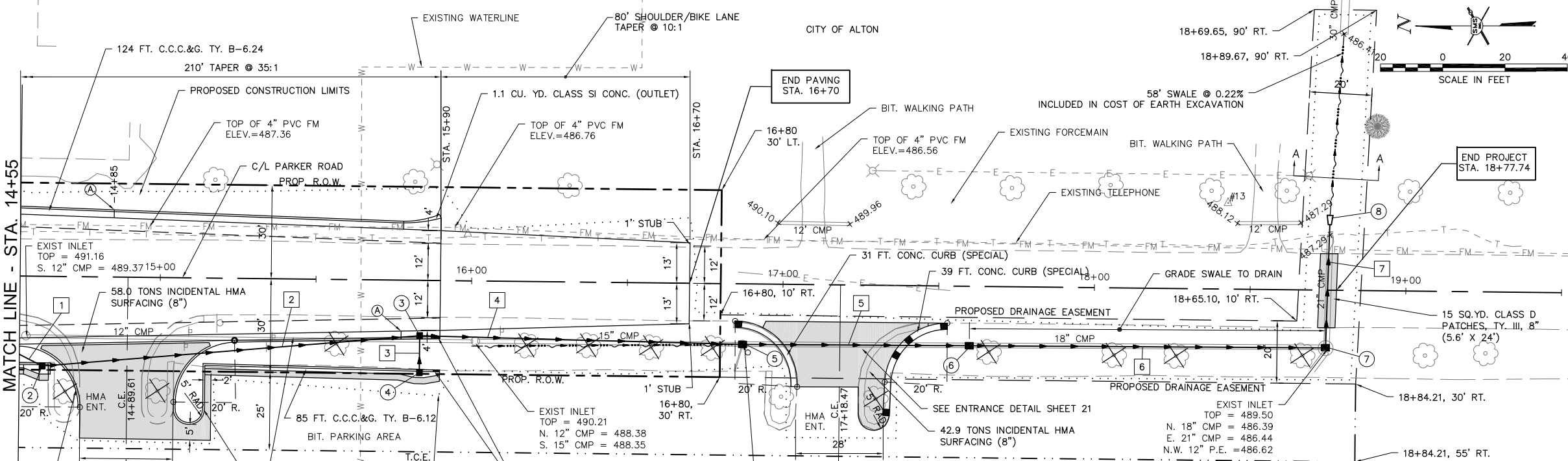
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SHEET 13 OF 38



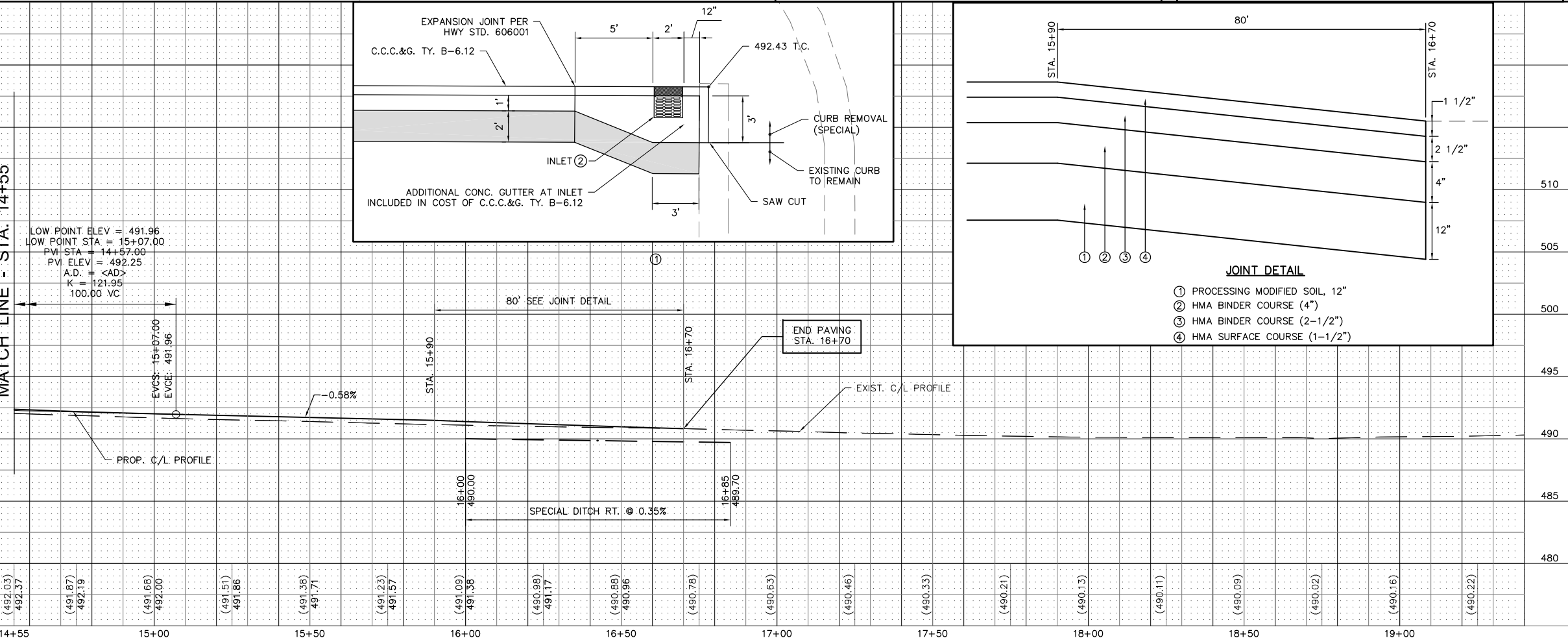
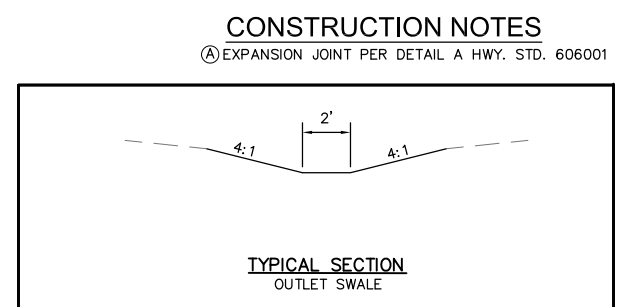
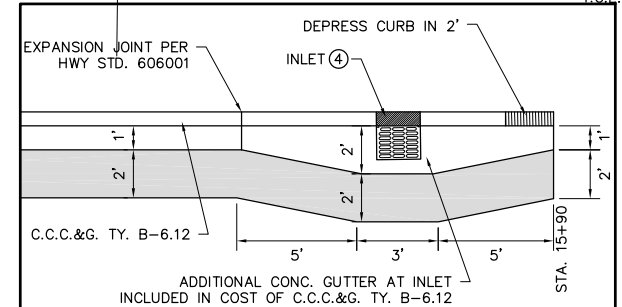
**DRAINAGE STRUCTURES**

- ② INLET TY. B-3  
STA. 14+62.40, 28.80' RT.  
T.C. = 492.43  
12" N. F.L. = 489.43  
12" S. F.L. = 489.33
- ③ INLET TY. B-3  
STA. 15+83.5, 17.77' RT.  
T.C. = 491.57  
12" N. & W. F.L. = 488.35  
15" S. F.L. = 488.10
- ④ INLET TY. A-3  
STA. 15+83.5, 29.61' RT.  
T.C. = 492.00  
12" E. F.L. = 489.00
- ⑤ FLUSH INLET BOX  
STA. 16+87.22, 19.44' RT.  
TOP = 489.70  
15" N. F.L. = 487.53  
18" S. F.L. = 487.28  
6" NW. F.L. = 488.24±
- ⑥ FLUSH INLET BOX  
STA. 17+60, 19.00' RT.  
TOP = 489.50  
18" N. F.L. = 487.10  
18" S. F.L. = 487.00
- ⑦ FLUSH INLET BOX  
STA. 18+74.43, 18.50' RT.  
TOP = 489.00  
18" N. F.L. = 486.72  
18" E. F.L. = 486.62  
12" PE N.W. F.L. = 486.62
- ⑧ METAL FLARED END SECTION 18" - 1 EA.  
STA. 18+75.46, 21.00' LT.  
(END OF PIPE)  
F.L. = 486.54



**STORM SEWERS**

- ② ② TO ③ 100 FT. - STORM SEWERS, CL. B, TY. 1, 12" @ 0.80%  
10 CU. YD. TRENCH BACKFILL  
22 FT - STORM SEWERS, TY. 1, WMQ, 12" @ 0.80%  
(ADAPTER COUPLINGS INCL. IN COST OF WMQ PIPE)
- ③ ④ TO ③ 12 FT. - STORM SEWERS, CL. B, TY. 1, 12" @ 5.42%  
2 CU. YD. TRENCH BACKFILL
- ④ ③ TO ⑤ 104 FT. - STORM SEWERS, CL. B, TY. 1, 15" @ 0.55%  
5 CU. YD. TRENCH BACKFILL
- ⑤ ⑤ TO ⑥ 73 FT. - STORM SEWERS, CL. B, TY. 1, 18" @ 0.25%  
13 CU. YD. TRENCH BACKFILL
- ⑥ ⑥ TO ⑦ 114 FT. - STORM SEWERS, CL. B, TY. 1, 18" @ 0.25%
- ⑦ ⑦ TO ⑧ 39 FT. - STORM SEWERS, CL. B, TY. 1, 18" @ 0.20%  
3 CU. YD. TRENCH BACKFILL



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 DESIGN FIRM # 184-000952

CITY OF ALTON  
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 IL. 140 / 111 PARKER RD. & SWINNEY ST.  
 INTERSECTION IMPROVEMENTS  
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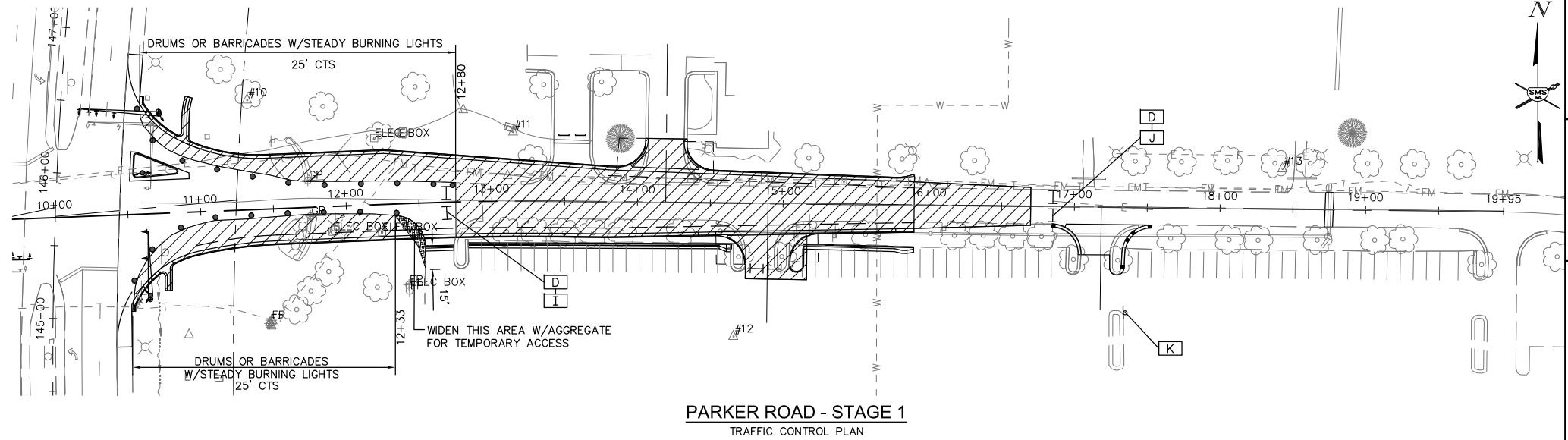
CONTRACT NO. 97721  
MOORE PARK PP2018.DWG

REF. BK.	PG.
JOB NO. 409120	
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DWN. BY: CDP	
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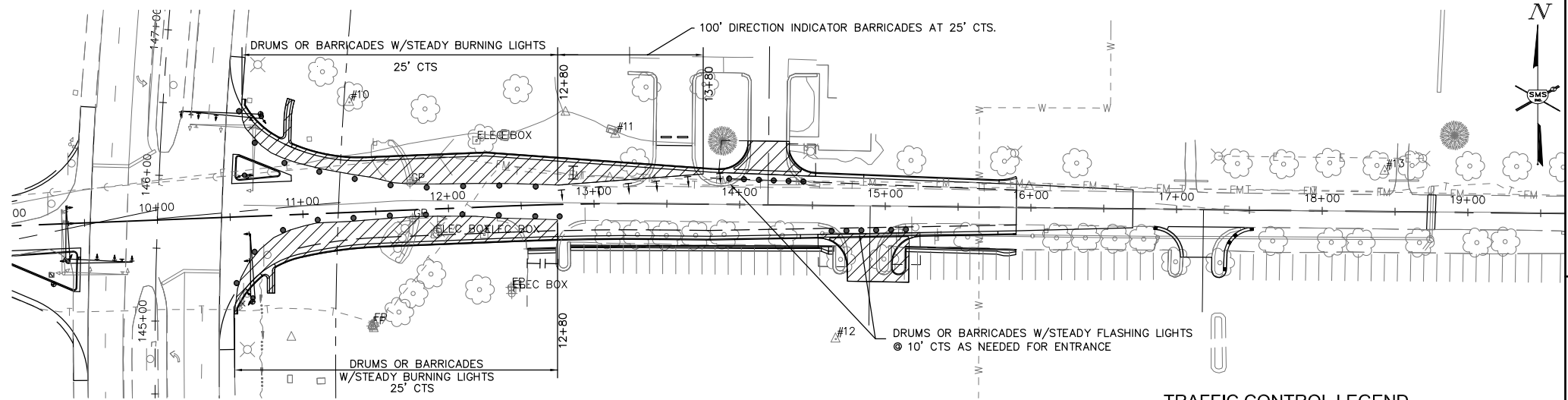
SHEET 14 OF 38

**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 AND THE SPECIAL PROVISIONS OF THE CONTRACT.
2. IL ROUTE 140 / 111 - EXCEPT AS OTHERWISE DESCRIBED HEREIN, IL ROUTE 140 / 111 SHALL REMAIN OPEN TO THOUGH TRAFFIC AT ALL TIMES. ONE TRAFFIC LANE WILL BE ALLOWED TO BE CLOSED IN EITHER DIRECTION AS NEEDED AS DESCRIBED BELOW:
  - a. WHEN WORKERS ARE PRESENT BETWEEN 2' TO 15' OF THE EDGE OF PAVEMENT, PROVIDE TRAFFIC CONTROL PER HIGHWAY STANDARD 701101.
  - b. WHEN WORKERS ARE PRESENT WITHIN 2' OF THE EDGE OF PAVEMENT, PROVIDE TRAFFIC CONTROL PER HIGHWAY STANDARD 701421.
  - c. WHEN CONSTRUCTION OPERATIONS RESULT IN A DIFFERENTIAL IN ELEVATION EXCEEDING 3" AT THE EDGE OF THE SHOULDER, TYPE I OR TYPE II BARRICADES OR VERTICAL PANELS OR DRUMS SHALL BE PLACED AT 25 FT. CENTERS AND STEADY BURNING WARNING LIGHTS SHALL BE USED AT NIGHT.
  - d. TEMPORARY TRAFFIC SIGNALS SHALL BE INSTALLED AND MAINTAINED DURING THE RECONSTRUCTION OF THE TRAFFIC SIGNALS.
3. PARKER ROAD - THERE IS A SIGNIFICANT INCREASE IN TRAFFIC ON PARKER ROAD IN THE EVENINGS DUE TO SPORTING EVENTS; THEREFORE, EXCEPT AS OTHERWISE DESCRIBED HEREIN, PARKER ROAD SHALL REMAIN OPEN TO THOUGH TRAFFIC AT ALL TIMES, EXCEPT AS OTHERWISE PROVIDED FOR HEREIN. ONE TRAFFIC LANE WILL BE ALLOWED TO BE CLOSED DURING DAY TIME HOURS AS NEEDED AS DESCRIBED BELOW:
  - a. PROVIDE TRAFFIC CONTROL AS NEEDED PER HIGHWAY STANDARD 701006, 701301 OR 701501.
  - b. DURING DAY TIME HOURS, SOUTH BOUND TRAFFIC MAY BE DETOURED THROUGH THE PARKING LOT ON THE WEST SIDE OF PARKER ROAD BY PLACING A BARRICADE WITH DETOUR SIGN AND ARROW.
  - c. DURING DAY TIME HOURS, NORTH BOUND TRAFFIC MAY BE DETOURED TO THE SECONDARY ACCESS ROADWAY OFF OF IL 140 / 111 (OFFICER BLAKE SNYDER MEMORIAL DRIVE) USING THE TRAFFIC CONTROL SHOWN ON THE DETOUR PLAN.
  - d. FOR CROSS ROAD STORM SEWER CONSTRUCTION AND PATCHING, DURING THE DAY TIME ONLY, BOTH NORTH BOUND AND SOUTH BOUND TRAFFIC MAY BE DETOURED THROUGH THE PARKING LOT ON THE WEST SIDE OF PARKER ROAD BY PLACING BARRICADES WITH DETOUR SIGNS AND ARROWS.
  - e. FOR PAVEMENT REMOVAL, LIME MODIFIED SOIL WORK, CURB AND GUTTER CONSTRUCTION AND THE FIRST 2 LAYERS OF HMA BINDER, TRAFFIC CONTROL SHALL BE PROVIDED ACCORDING TO THE PARKER ROAD - STAGE 1 TRAFFIC CONTROL PLAN AND B AND C ABOVE. THE CONTRACTOR SHALL MINIMIZE THE CLOSURE TIME BY WORKING EVERY WORKABLE DAY IN ORDER TO REOPEN PARKER RD. TO THROUGH TRAFFIC AS SOON AS POSSIBLE AFTER THE HMA BINDER HAS BEEN COMPLETED.
  - f. FOR CONSTRUCTION WORK FROM STA. 12+33 TO 12+80 ON THE RIGHT, MILLING, HMA SURFACE WORK AND REMAINING CONSTRUCTION, TRAFFIC CONTROL SHALL BE PROVIDED ACCORDING TO THE PARKER ROAD - STAGE 2 TRAFFIC CONTROL PLAN AND A, B AND C ABOVE. THE STAGE 2 TRAFFIC CONTROL PLAN MAY BE MODIFIED AS APPROVED BY THE ENGINEER AS CONSTRUCTION PROGRESSES.
4. SWINNEY STREET - EXCEPT AS OTHERWISE DESCRIBED HEREIN, SWINNEY STREET SHALL REMAIN OPEN TO THOUGH TRAFFIC AT ALL TIMES. ONE TRAFFIC LANE WILL BE ALLOWED TO BE CLOSED DURING DAY TIME HOURS AS NEEDED AS DESCRIBED BELOW:
  - a. PROVIDE TRAFFIC CONTROL AS NEEDED PER HIGHWAY STANDARD 701006, 701301 OR 701501.
  - b. FOR PAVEMENT REMOVAL, EARTH EXCAVATION, CULVERT CONSTRUCTION, LIME MODIFIED SOIL WORK, ISLAND CONSTRUCTION, AND HMA PAVING, SWINNEY ST. MAY BE CLOSED TO TRAFFIC USING THE TRAFFIC CONTROL SHOWN ON THE DETOUR PLAN. THE CONTRACTOR SHALL MINIMIZE THE CLOSURE TIME BY WORKING EVERY WORKABLE DAY IN ORDER TO REOPEN SWINNEY ST. TO TRAFFIC AS SOON AS POSSIBLE AFTER THE HMA SURFACE HAS BEEN COMPLETED. AFTER THE HMA BINDER HAS BEEN CONSTRUCTED, IF THERE IS A DELAY BEFORE THE HMA SURFACE IS CONSTRUCTED, SWINNEY ST. SHALL BE REOPENED.
5. AT ANY LOCATION, WHEN CONSTRUCTION OPERATIONS RESULT IN A DIFFERENTIAL IN ELEVATION EXCEEDING 3" AT THE EDGE OF THE SHOULDER, OR PAVEMENT, TYPE I OR TYPE II BARRICADES OR VERTICAL PANELS OR DRUMS SHALL BE PLACED AT 25 FT. CENTERS AND STEADY BURNING WARNING LIGHTS SHALL BE USED AT NIGHT.
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 THE WORK ZONES SHALL BE PROTECTED WITH TYPE I BARRICADES OR DRUMS WITH FLASHING LIGHTS.
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. THE DATE AND TIME OF THE PROPOSED CLOSURE OF SWINNEY ST. SHALL BE AGREED TO BY THE ENGINEER AND THE CITY OF ALTON PARKS AND RECREATION DEPT.
10. A PEDESTRIAN SAFETY FENCE SHALL BE PROVIDED AROUND THE PERIMETER OF ALL OPEN EXCAVATIONS AT THE END OF THE WORKDAY ALONG PARKER ROAD SOUTH OF IL 140 / 111. THE COST OF THE FENCE SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
11. 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.



**PARKER ROAD - STAGE 1**  
TRAFFIC CONTROL PLAN



**PARKER ROAD - STAGE 2**  
TRAFFIC CONTROL PLAN

**TRAFFIC CONTROL LEGEND**

- WORK AREA
- TYPE III BARRICADE WITH REFLECTORIZED STRIPING ON BOTH SIDES WITH FLASHING LIGHTS
- DRUM OR BARRICADE
- DIRECTION INDICATOR BARRICADE
- SIGN "ROAD CONSTRUCTION AHEAD" W20-1(0) - 48" x 48" WITH MONODIRECTIONAL FLASHING LIGHT
- SIGN "MOORE PARK NORTH SIDE CLOSED" W20-3 48" x 48"
- SIGN "MOORE PARK NORTH SIDE CLOSED 1 MILE" W20-3 48" x 48"
- SIGN "ROAD CLOSED" R11-2 48" x 30"
- SIGN "MOORE PARK NORTH SIDE" BLACK LETTERS ON ORANGE BACKGROUND 24" x 24"
- SIGN "PARK EXIT CLOSED" BLACK LETTERS ON ORANGE BACKGROUND 24" x 24"
- SIGN BLACK LETTERS ON ORANGE BACKGROUND 24" x 24"
- SIGN BLACK LETTERS ON ORANGE BACKGROUND 24" x 24"
- SIGN M4-9R 30" x 24"
- SIGN M4-9L 30" x 24"
- SIGN BLACK LETTERS ON ORANGE BACKGROUND 30" x 24"
- SIGN BLACK ARROW ON ORANGE BACKGROUND 24" x 18"
- SIGN BLACK ARROW ON ORANGE BACKGROUND 24" x 18"

**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  
SECTION 16-00239-00-PV  
IL. 140 / 111 PARKER RD. & SWINNEY ST.  
INTERSECTION IMPROVEMENTS  
TRAFFIC CONTROL PLANS


CONTRACT NO.  
97721

REF. BK.	PG.
JOB NO. 409120	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: DEC. 2019	


SCALE: 1" = 50'  
SHEET 15 OF 38

**TRAFFIC CONTROL LEGEND**


-  WORK AREA
  -  TYPE III BARRICADE WITH REFLECTORIZED STRIPING ON BOTH SIDES WITH FLASHING LIGHTS
  -  DRUM OR BARRICADE
  -  DIRECTION INDICATOR BARRICADE
  -  SIGN "ROAD CONSTRUCTION AHEAD" W20-1(0) - 48" x 48" WITH MONODIRECTIONAL FLASHING LIGHT
  -  SIGN "MOORE PARK NORTH SIDE CLOSED" W20-3 48" x 48"
  -  SIGN "MOORE PARK NORTH SIDE CLOSED 1 MILE" W20-3 48" x 48"
  -  SIGN "ROAD CLOSED" R11-2 48" X 30"
  -  SIGN "MOORE PARK NORTH SIDE" BLACK LETTERS ON ORANGE BACKGROUND 24" x 24"
  -  SIGN "PARK EXIT CLOSED" BLACK LETTERS ON ORANGE BACKGROUND 24" x 24"
  -  SIGN BLACK LETTERS ON ORANGE BACKGROUND 24" X 24"
  -  SIGN BLACK LETTERS ON ORANGE BACKGROUND 24" X 24"
  -  SIGN M4-9R 30" x 24"
  -  SIGN M4-9L 30" x 24"
  -  SIGN BLACK LETTERS ON ORANGE BACKGROUND 30" X 24"
  -  SIGN BLACK ARROW ON ORANGE BACKGROUND 24" X 18"
  -  SIGN BLACK ARROW ON ORANGE BACKGROUND 24" X 18"
- PARK EXIT




PARK EXIT




DETOUR




DETOUR




DETOUR




DETOUR

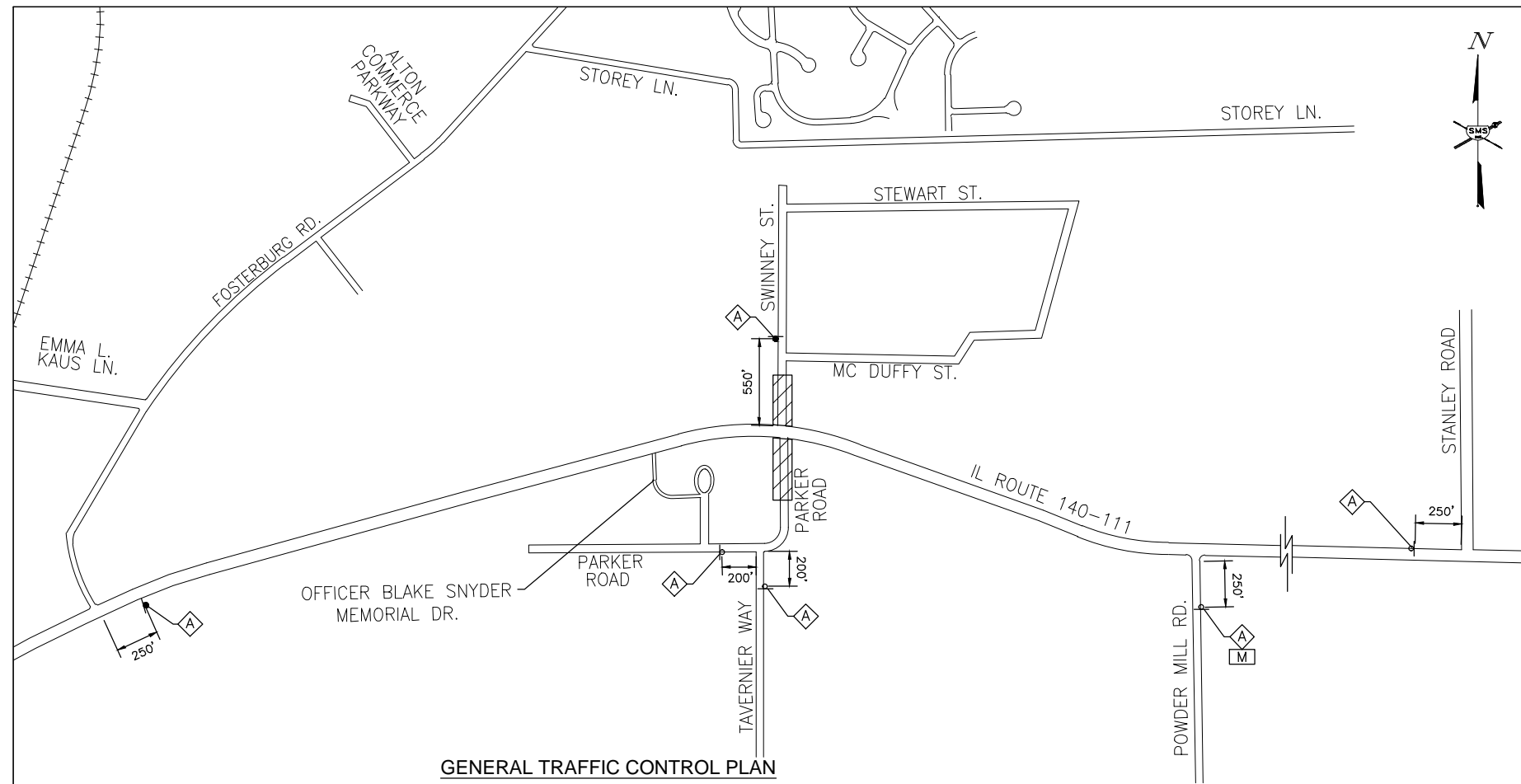


DETOUR

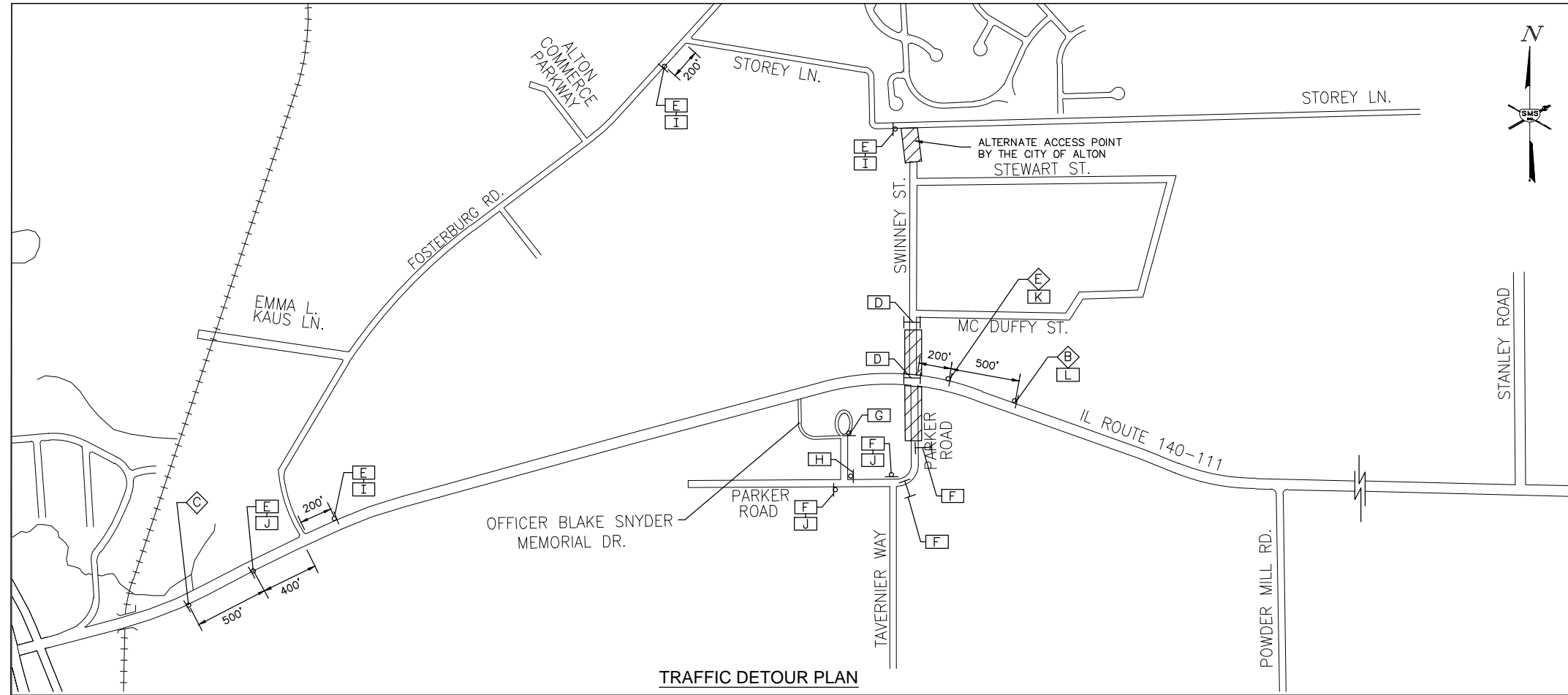


DETOUR





**GENERAL TRAFFIC CONTROL PLAN**



**TRAFFIC DETOUR PLAN**

**SMS**  
ENGINEERS

**Sheppard, Morgan & Schwaab, Inc.**  
CONSULTING ENGINEERS AND LAND SURVEYORS

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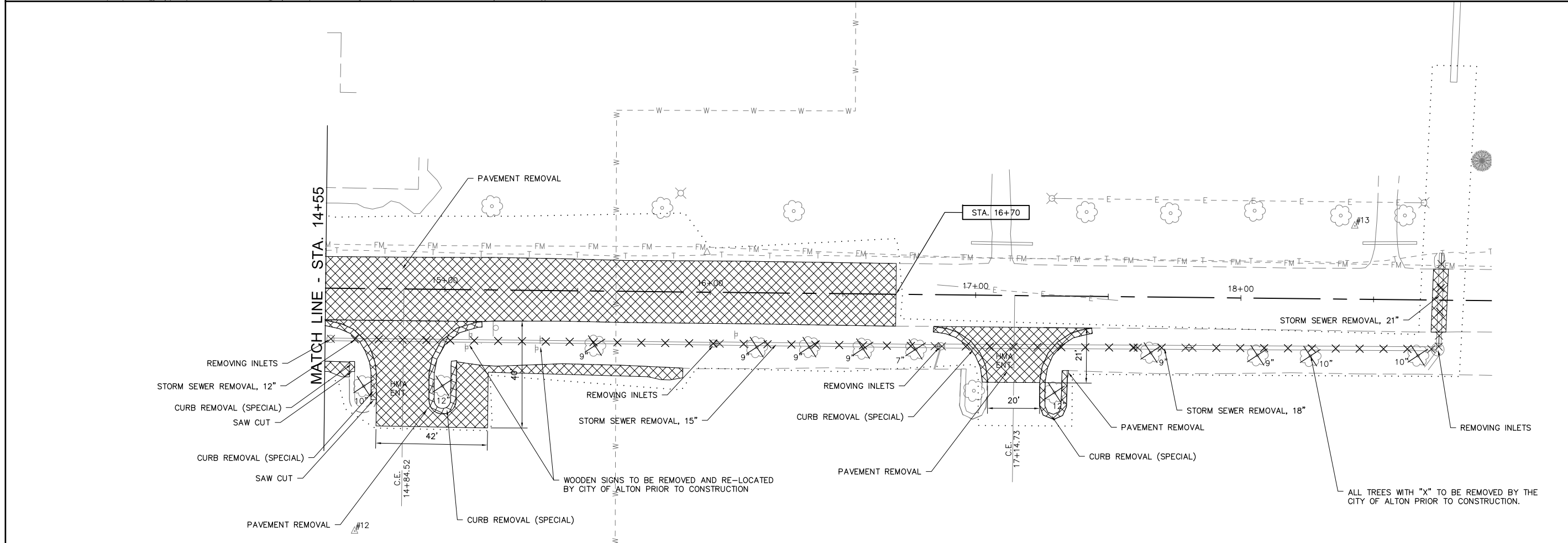
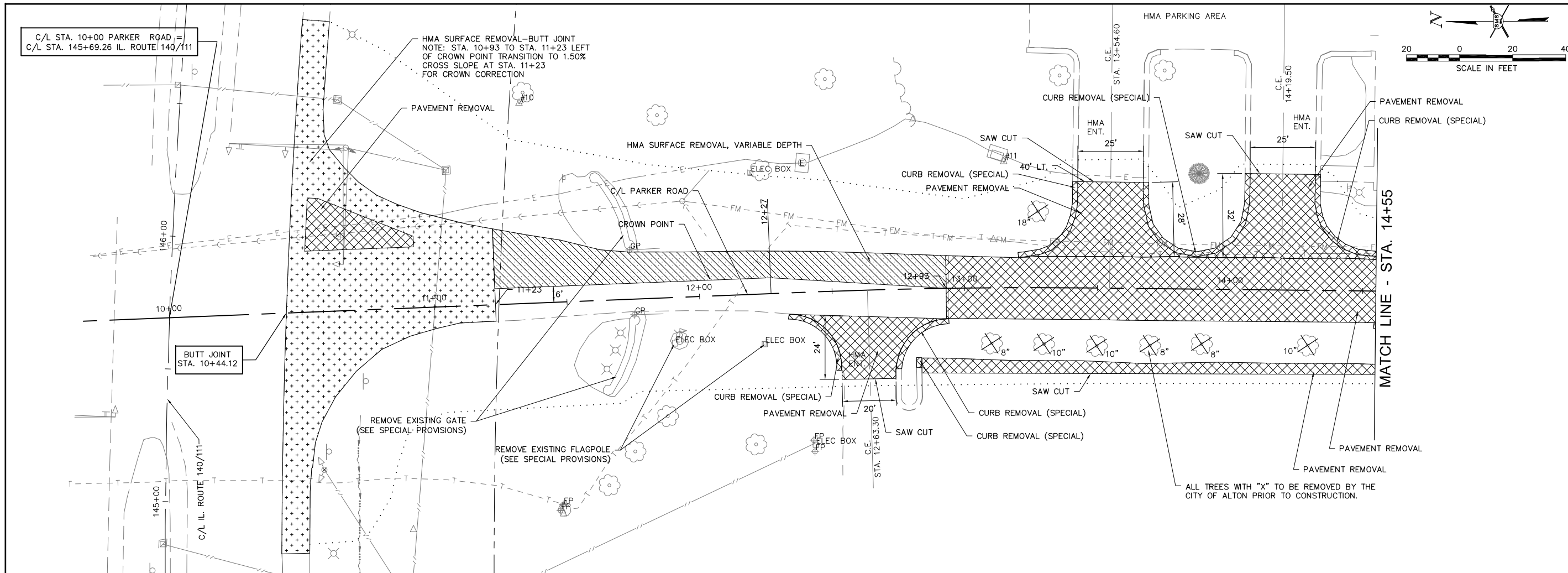
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MOORE PARK TRAFFIC CONTROL.DWG	
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JOB NO. 409120	DSN. BY: DEG
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SHEET 16 OF 38	









REVISIONS

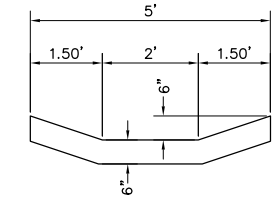
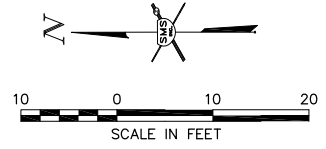
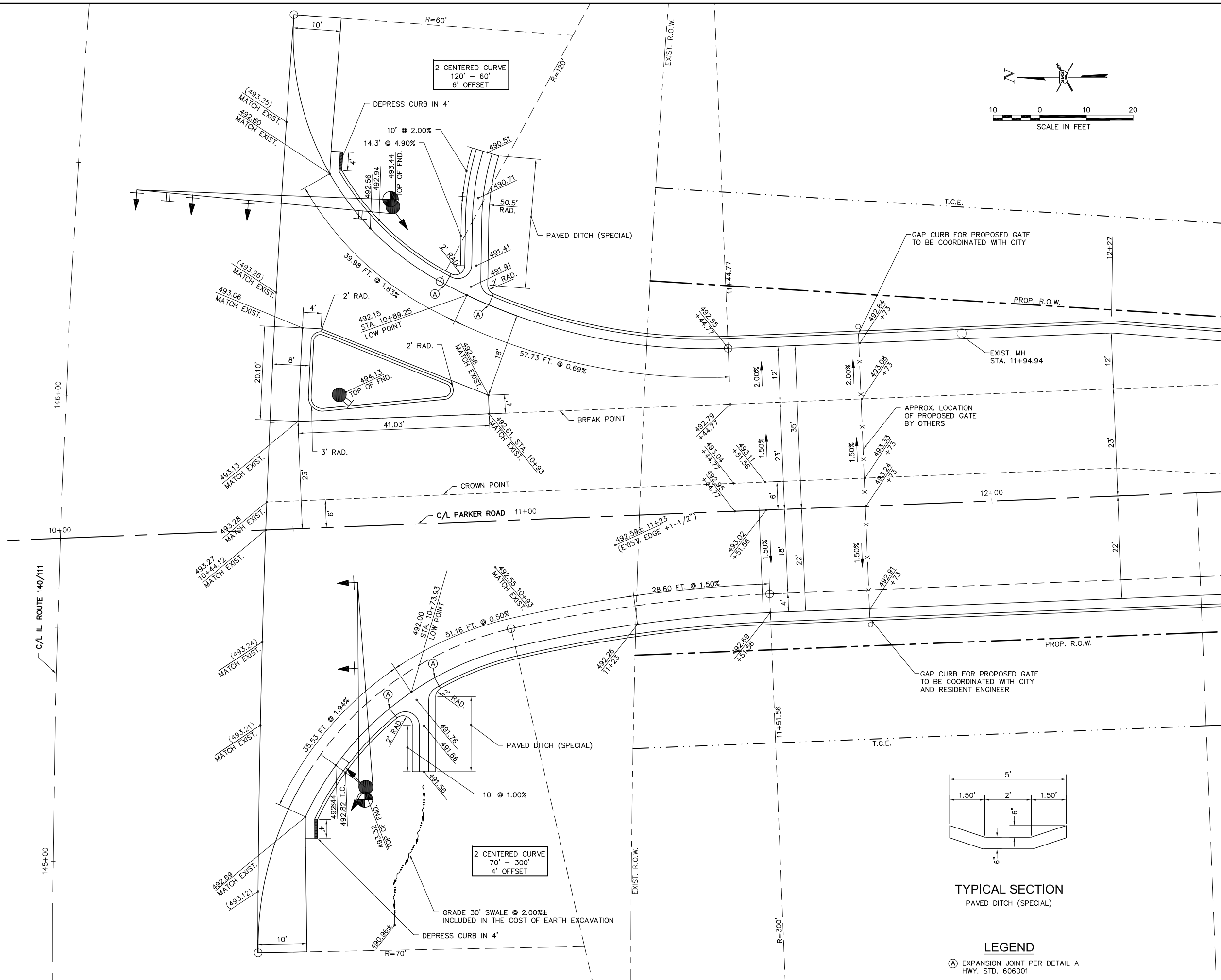
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**ENGINEERS** DESIGN FIRM # 184-000992

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 INTERSECTION IMPROVEMENTS  
 REMOVAL ITEMS

CONTRACT NO. 97721  
 MOORE PARK REMOVE 2018.DWG

REF. BK.	PG.
JOB NO. 409120	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: DEC. 2019	
HORZ: 1" = 20'	
SCALE: VERT: 1" = 5'	

SHEET 19 OF 38



**TYPICAL SECTION**  
PAVED DITCH (SPECIAL)

**LEGEND**

(A) EXPANSION JOINT PER DETAIL A  
HWY. STD. 606001

NO.	DESCRIPTION

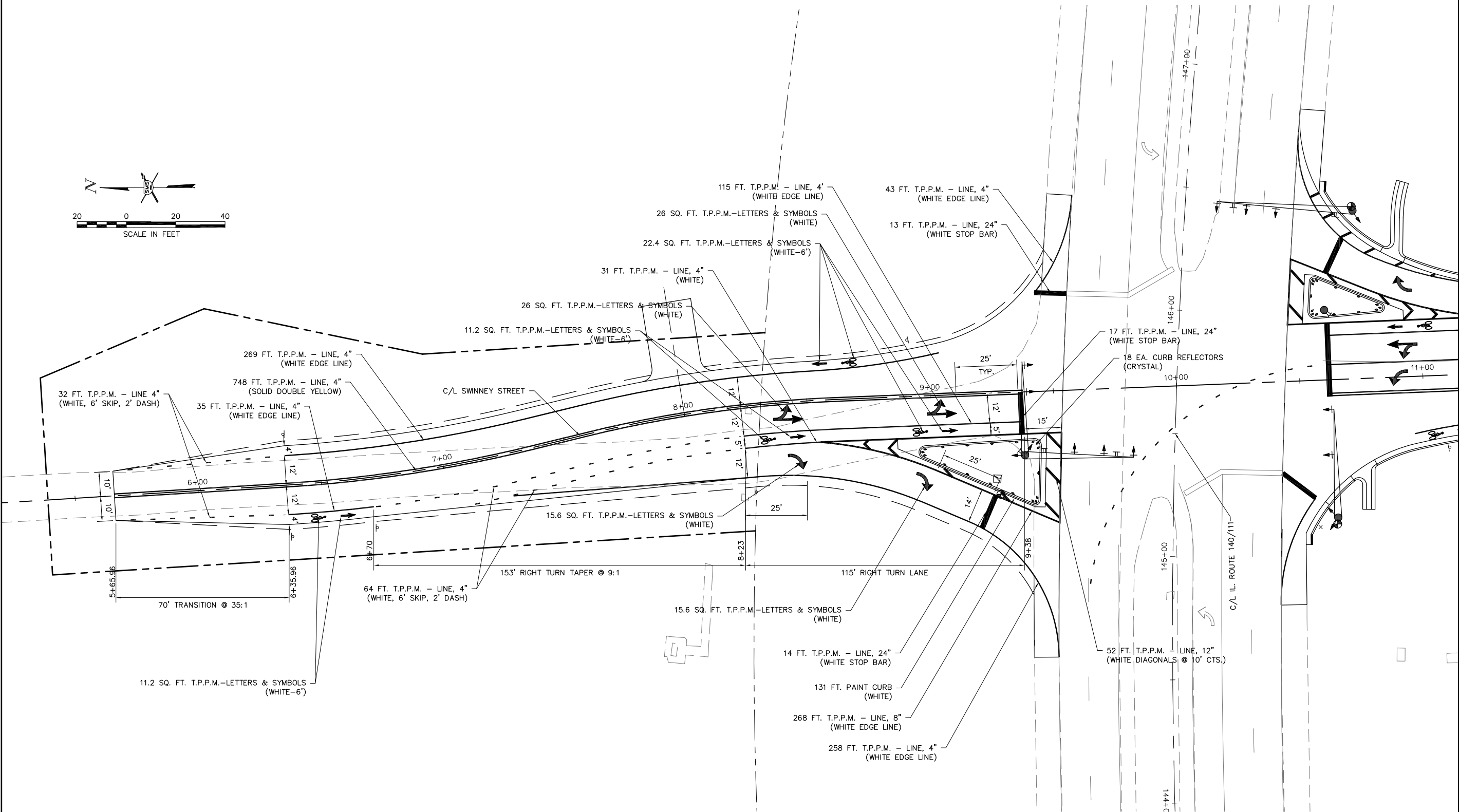
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CONSTRUCTION DETAILS

CONTRACT NO. 97721	
MOORE PARK INT DETAIL.DWG	
REF. BK.	PG.
JOB NO. 409120	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: DEC. 2019	
SCALE: 1" = 10'	
SHEET 20 OF 38	







NOTES:  
THERMOPLASTIC PAVEMENT MARKING IS ABBREVIATED AS T.P.P.M.

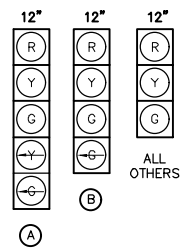
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PAVEMENT MARKING

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SCALE: 1" = 20'	
SHEET 22 OF 38	



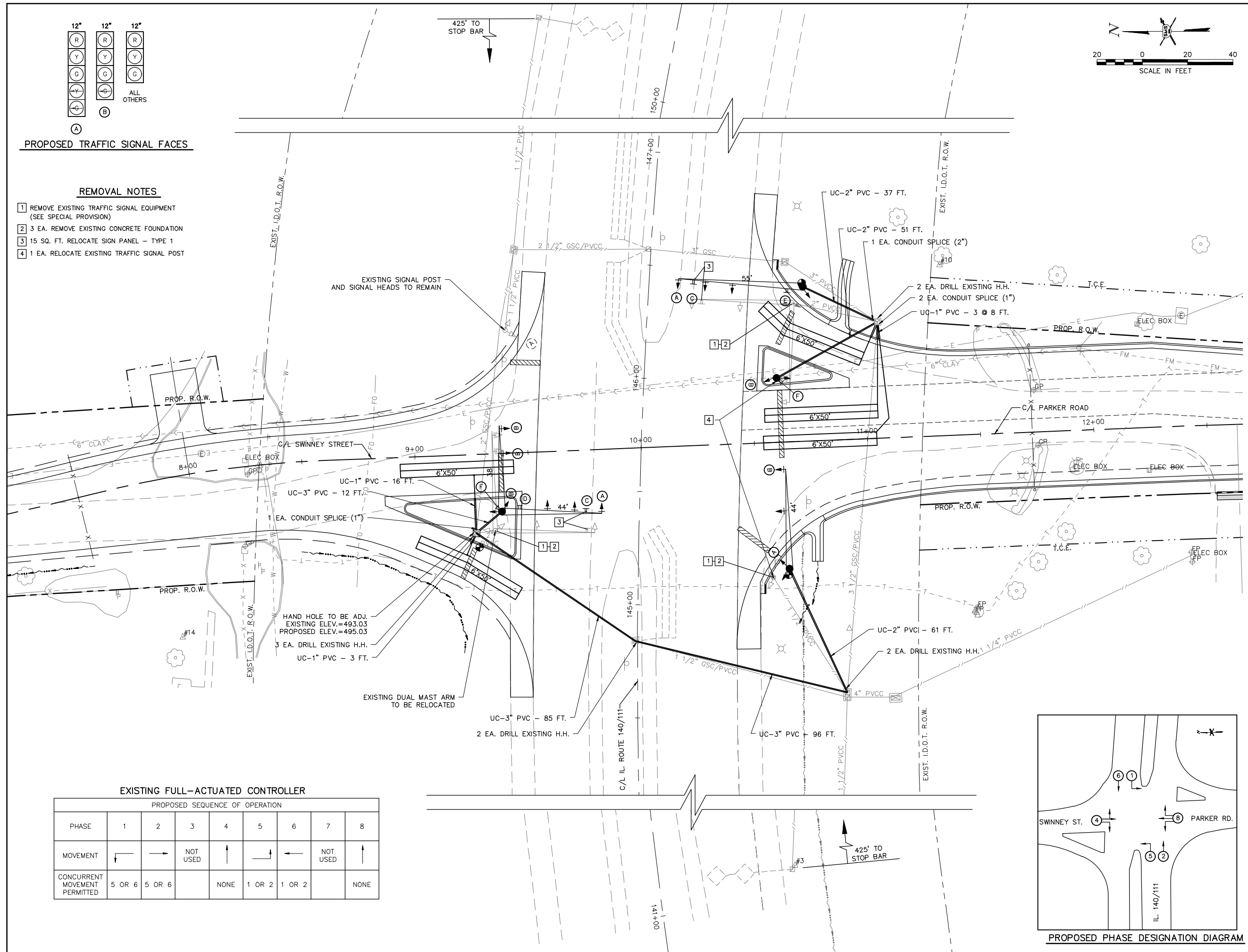
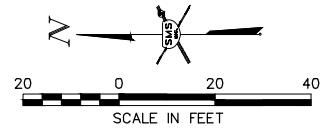




**PROPOSED TRAFFIC SIGNAL FACES**

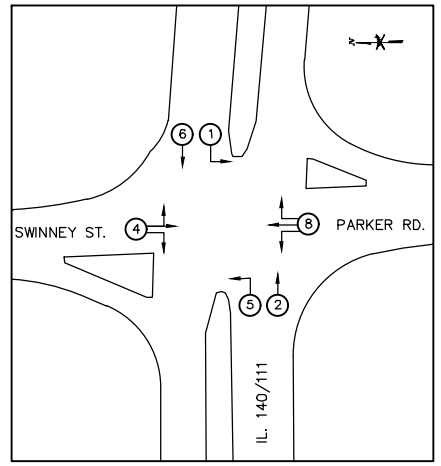
**REMOVAL NOTES**

- 1 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (SEE SPECIAL PROVISION)
- 2 3 EA. REMOVE EXISTING CONCRETE FOUNDATION
- 3 15 SQ. FT. RELOCATE SIGN PANEL - TYPE 1
- 4 1 EA. RELOCATE EXISTING TRAFFIC SIGNAL POST



**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	1 OR 2	1 OR 2		NONE



**PROPOSED PHASE DESIGNATION DIAGRAM**

REVISIONS


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

CITY OF ALTON  
 SECTION 16-00239-00-PV  
 IL. 140 / 111 PARKER RD. & SWINNEY ST.  
 INTERSECTION IMPROVEMENTS  
 TRAFFIC SIGNAL PLAN

CONTRACT NO. 97721

PARKER RD TRAF SIG.DWG

REF. BK.	PG.
JOB NO.	409120
DSN. BY:	DEG
DWN. BY:	CDP
CHK. BY:	DEG
DATE:	DEC. 2019

SCALE: 1" = 20'

SHEET 25 OF 38



**Quality Testing and Engineering, Inc.**  
QTE Project No.16-0638-G

**Soil Boring Log**

Route: FAP 785 Structure No.: Proposed Traffic Signal, SW Corner Date: \_\_\_\_\_ Page: 1 of 1  
 Section: 16-00239-00-PV Description: Illinois Route 140 / 111 and Parker Road/ Swinney Street Traffic Signals  
 County: Madison Drilling Method: CME 550, CFA Hammer Type: Automatic SPT Hammer

Boring No.: B-1 Logged by: Quality Testing and Engineering, Inc. (WKS)

Station: 145+15 Surface Water Elev.: N/A ft  
 Offset: 69 RT Groundwater Elev.: \_\_\_\_\_  
 Latitude: 38.910348 First Encounter: 6.0 ft  
 Longitude: -90.107330 Upon Completion: 6.0 ft  
 Ground Surface El.: 491.5 ft After N/A Hours N/A ft

Soil Type, Description & Observations (ft)	DEPTH (ft)	BLOW S	U.C.S. Qu (tsf)	MOIST. T. (%)	Soil Type, Description & Observations (ft)	DEPTH (ft)	BLOW S	U.C.S. Qu (tsf)	MOIST. T. (%)
Dark gray, CLAY (A-7)					Brownish-gray, CLAY (A-7) (cont.)				
	1				Becomes gray	3			
	2	1.31	26			3	2.21	32	
	4	B				4	B		
Becomes brown and gray	2					2			
	3	2.26	28			3	3.55	29	
	-5	B			Boring terminated at 25 feet.	-25	S/15%		
Brown and gray, SILTY CLAY (A-6)	2								
	2	0.68	30						
	3	B							
	2								
	2	0.95	29						
	-10	B							
Gray, SILTY CLAY LOAM (A-4)	2								
	2	0.77	29						
	3	B							
Brownish-gray, SILTY CLAY (A-6)	2								
	3	0.99	26						
	-15	B							
Brownish-gray, CLAY (A-7)	3								
	3	2.12	25						
	3	B							
	3								
	3	1.99	23						
	-20	B							

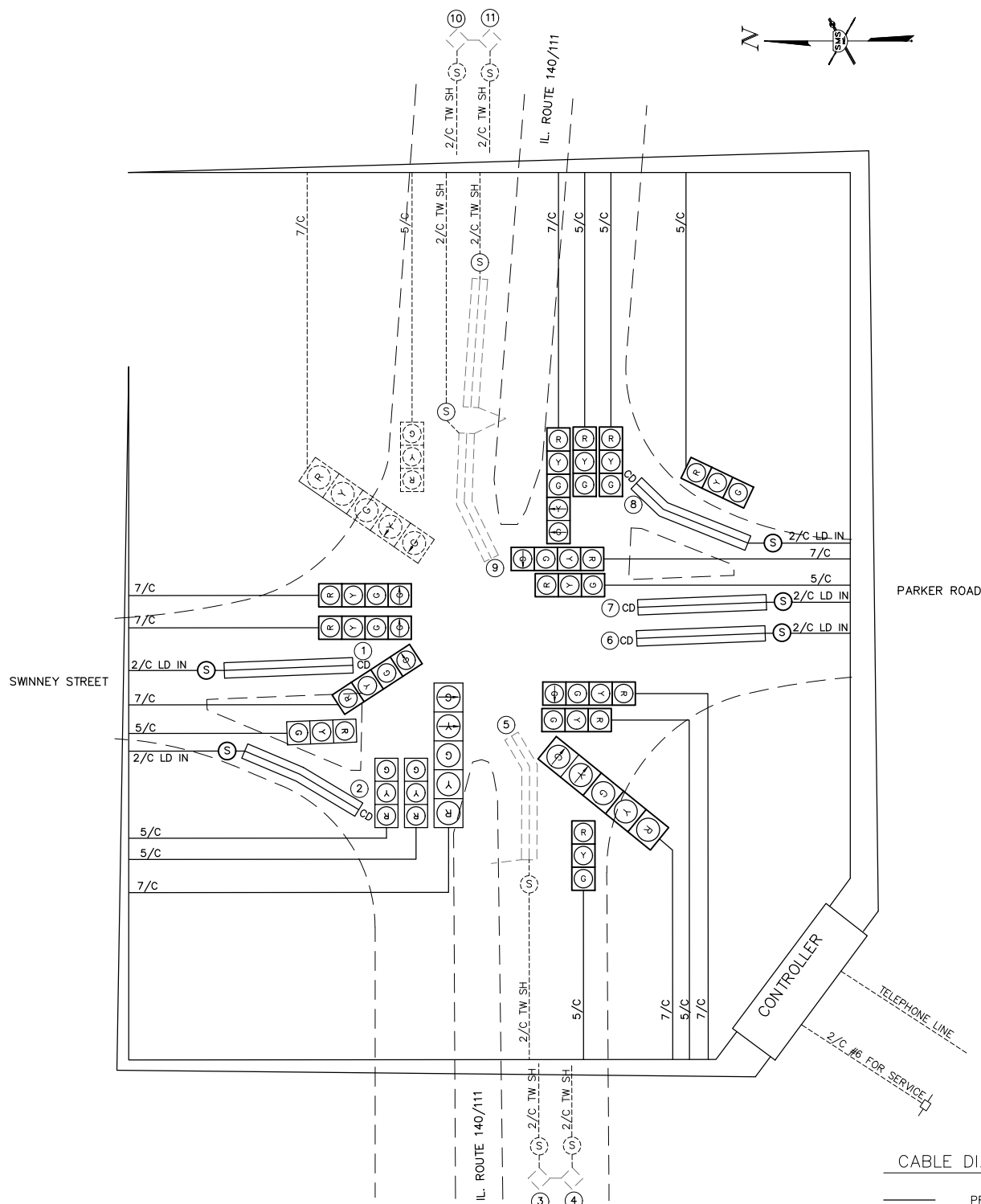
The U.C.S. Qu column represents the Unconfined Compressive Strength using either the IDOT Rimac Test Procedure or AASHTO 208.  
 The Qu failure mode is indicated by B for Bulge or S for Shear. P is shown when sample disturbance only allows Penetrometer testing.  
 The Standard Penetration Test (SPT) N value is the sum of the second and third Blows /6 in. values in each sample using AASHTO T 206.

File Name: BBS 137.docx

Printed: 6/26/2019 8:22 AM

BBS 137 (Rev. 01/04/2012)

SW QUADRANT



**CABLE DIAGRAM LEGEND**

- PROPOSED ELECTRIC CABLE IN CONDUIT
- - - EXISTING ELECTRIC CABLE IN CONDUIT
- ⊙ CABLE SPLICE
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- LD-IN ELECTRIC CABLE LEAD-IN, 1 PAIR
- CD CALL DELAY
- CCO CALL CARRY OVER
- #6 INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTOR
- SERVICE INSTALLATION

NO.	REVISIONS

**SMS** Sheppard, Morgan & Schwab, Inc.  
 CONSULTING ENGINEERS AND LAND SURVEYORS  
 ENGINEERS  
 715 Market Street, Alton, IL 62002 618.462.9755 E-mail: mail@smsengineers.com  
 DESIGN FIRM # 184-000992

CITY OF ALTON  
 SECTION 16-00239-00-PV  
 IL. 140 / 111 PARKER RD. & SWINNEY ST.  
 INTERSECTION IMPROVEMENTS  
 CABLE DIAGRAM AND SOIL BORINGS

CONTRACT NO. 97721  
 PARKER RD TRAF DIA.DWG  
 REF. BK. PG.  
 JOB NO. 409120  
 DSN. BY: DEG  
 DWN. BY: CDP  
 CHK. BY: DEG  
 DATE: DEC. 2019  
 SCALE: 1" = 30'  
 SHEET 26 OF 38

Quality Testing and Engineering, Inc.  
QTE Project No.16-0638-G

Soil Boring Log

Route: FAP 785 Structure No.: Proposed Traffic Signal, SE Corner Date: Page: 1 of 1  
 Section: 16-00239-00-PV Description: Illinois Route 140 / 111 and Parker Road/ Swinney Street Traffic Signals  
 County: Madison Drilling Method: CME 550, CFA Hammer Type: Automatic SPT Hammer

Soil Type, Description & Observations					Soil Type, Description & Observations				
(ft)	(ft)	/6 in.	(tsf)	(%)	(ft)	(ft)	/6 in.	(tsf)	(%)
FILL: Brown, SILTY CLAY (A-6)					Brownish-gray, CLAY (A-7) (cont.)				
	4					3			
	5	1.67		22		3	1.90		27
	6	B				3			
FILL: Brown, CLAY (A-7)					Becomes gray				
	3					3			
	5	2.38		28		3	1.72		30
	4	B				4	S/20%		
Brown and gray, SILTY CLAY (A-6)					Boring terminated at 25 feet.				
	2								
	2	0.95		28					
	3	B							
	2								
	3	1.76		31					
	3	B							
	2								
	3	1.75		27					
	3	P							
Becomes brown									
	3								
	3	0.81		27					
	3	B							
	2								
	3	0.99		27					
	3	B							
Brownish-gray, CLAY (A-7)									
	2								
	3	1.40		27					
	3	B							

The U.C.S. Qu column represents the Unconfined Compressive Strength using either the IDOT Rimac Test Procedure or AASHTO 208.  
 The Qu failure mode is indicated by B for Bulge or S for Shear. P is shown when sample disturbance only allows Penetrometer testing.  
 The Standard Penetration Test (SPT) N value is the sum of the second and third Blows /6 in. values in each sample using AASHTO T 206.

File Name: BBS 137.docx

Printed: 6/26/2019 8:23 AM

BBS 137 (Rev. 01/04/2012)

SE QUADRANT

Quality Testing and Engineering, Inc.  
QTE Project No.16-0638-G

Soil Boring Log

Route: FAP 785 Structure No.: Proposed Traffic Signal, NW Corner Date: Page: 1 of 1  
 Section: 16-00239-00-PV Description: Illinois Route 140 / 111 and Parker Road/ Swinney Street Traffic Signals  
 County: Madison Drilling Method: CME 550, CFA Hammer Type: Automatic SPT Hammer

Soil Type, Description & Observations					Soil Type, Description & Observations				
(ft)	(ft)	/6 in.	(tsf)	(%)	(ft)	(ft)	/6 in.	(tsf)	(%)
FILL: Brown, CLAY (A-6)					Brown, CLAY, trace gravel (A-7) (cont.)				
	5					4			
	5	2.75		25		4	3.05		22
	5	P				5	S/20%		
Brown and gray, CLAY (A-6)					Boring terminated at 25 feet.				
	2					3			
	3	1.44		31		4	2.80		25
	3	B				5	B		
Gray, SILTY CLAY (A-6)									
	2								
	2	1.04		26					
	2	B							
Gray, SILTY CLAY LOAM (A-4)									
	2								
	2	0.90		28					
	3	B							
	2								
	3	1.17		32					
	3	B							
Brown, CLAY (A-7)									
	2								
	3	0.86		29					
	3	B							
	2								
	3	1.17		29					
	4	B							
Trace gravel									
	3								
	4	1.81		24					
	4	B							

The U.C.S. Qu column represents the Unconfined Compressive Strength using either the IDOT Rimac Test Procedure or AASHTO 208.  
 The Qu failure mode is indicated by B for Bulge or S for Shear. P is shown when sample disturbance only allows Penetrometer testing.  
 The Standard Penetration Test (SPT) N value is the sum of the second and third Blows /6 in. values in each sample using AASHTO T 206.

File Name: BBS 137.docx

Printed: 6/26/2019 8:25 AM

BBS 137 (Rev. 01/04/2012)

NW QUADRANT

REVISIONS

SMS Sheppard, Morgan & Schwaab, Inc.  
 CONSULTING ENGINEERS AND LAND SURVEYORS  
 715 Market Street, Alton, IL 62002 618.462.9755 E-mail: mail@smsengineers.com  
 DESIGN FIRM # 184-000992

CITY OF ALTON  
 SECTION 16-00239-00-PV  
 IL. 140 / 111 PARKER RD. & SWINNEY ST.  
 INTERSECTION IMPROVEMENTS  
 SOIL BORINGS

CONTRACT NO.  
97721

PARKER RD TRAF DIA.DWG

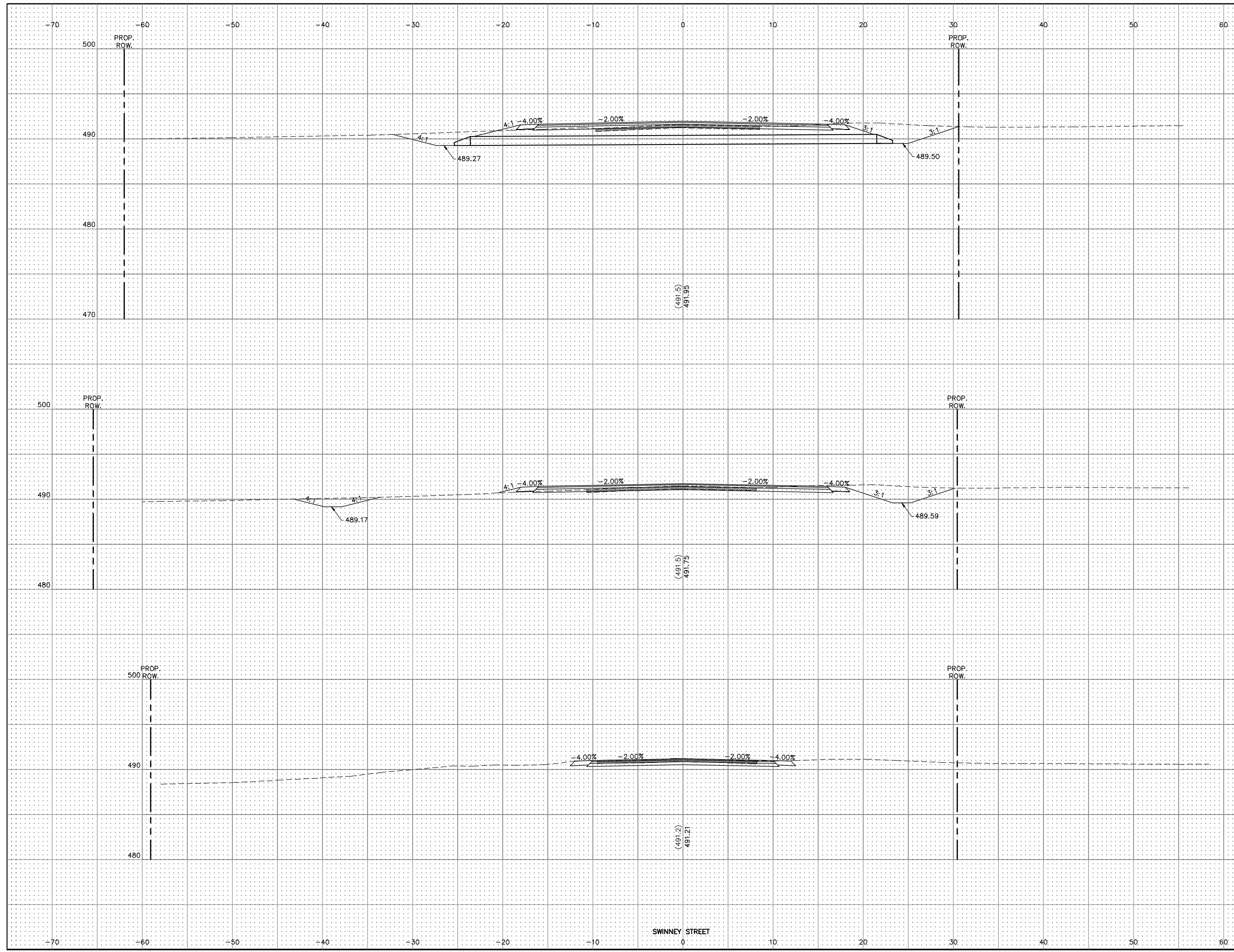
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 JOB NO. 409120  
 DSN. BY: DEG  
 DWN. BY: CDP  
 CHK. BY: DEG  
 DATE: DEC. 2019

SCALE: NONE

SHEET 27 OF 38

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16-00239-00-PV	MADISON	38	28
FEDERAL AID PROJECT		CONTRACT NO. 97721	

SCALE:  
HORIZ: 1"=5'  
VERT: 1"=5'



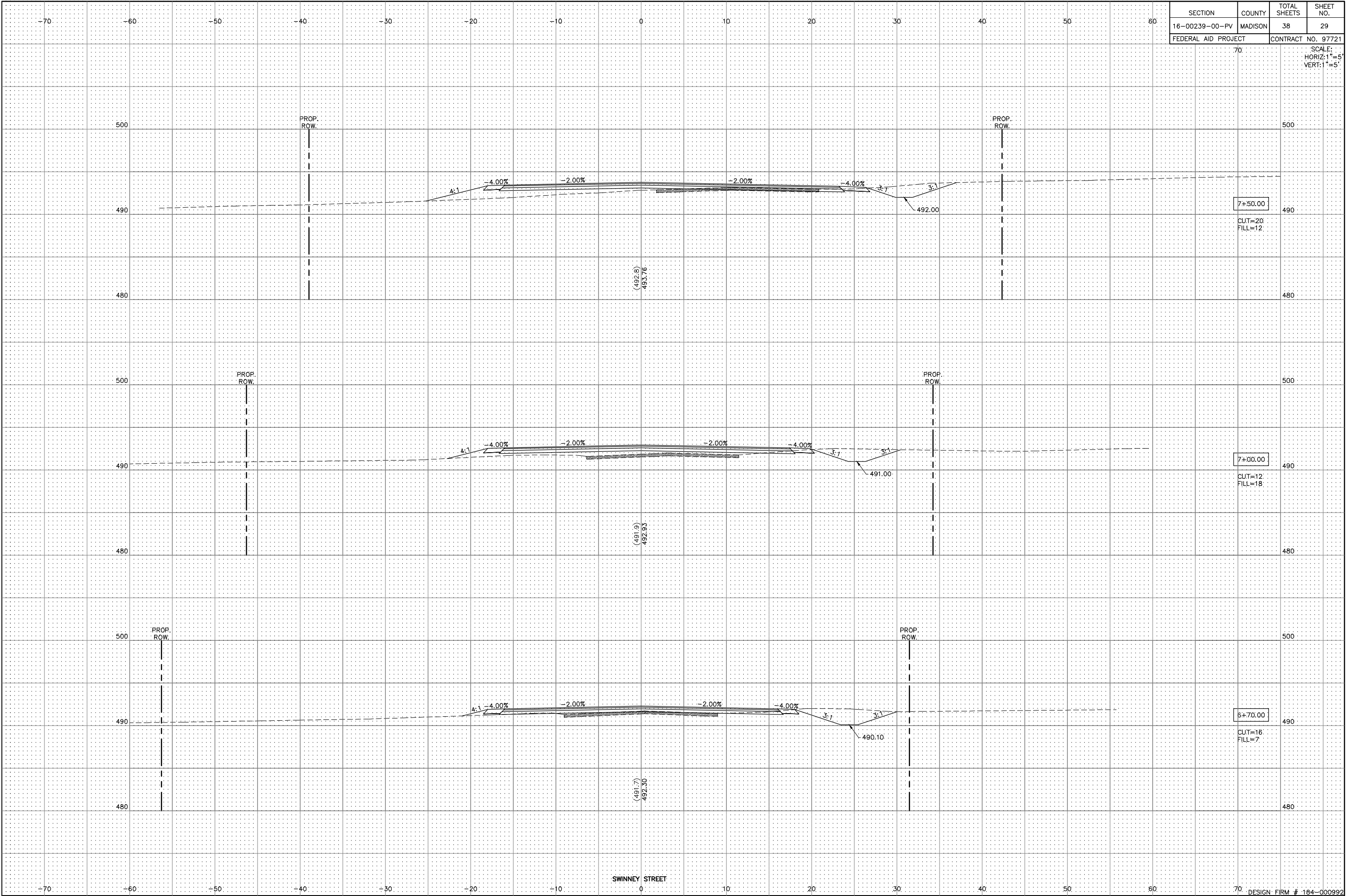
70			
490	5+50.00	CUT=30 FILL=3	490
480			480
470			470
500			500
490	5+35.96	CUT=27 FILL=2	490
480			480
500			500
490	5+65.96	CUT=9 FILL=0	490
480			480

SWINNEY STREET

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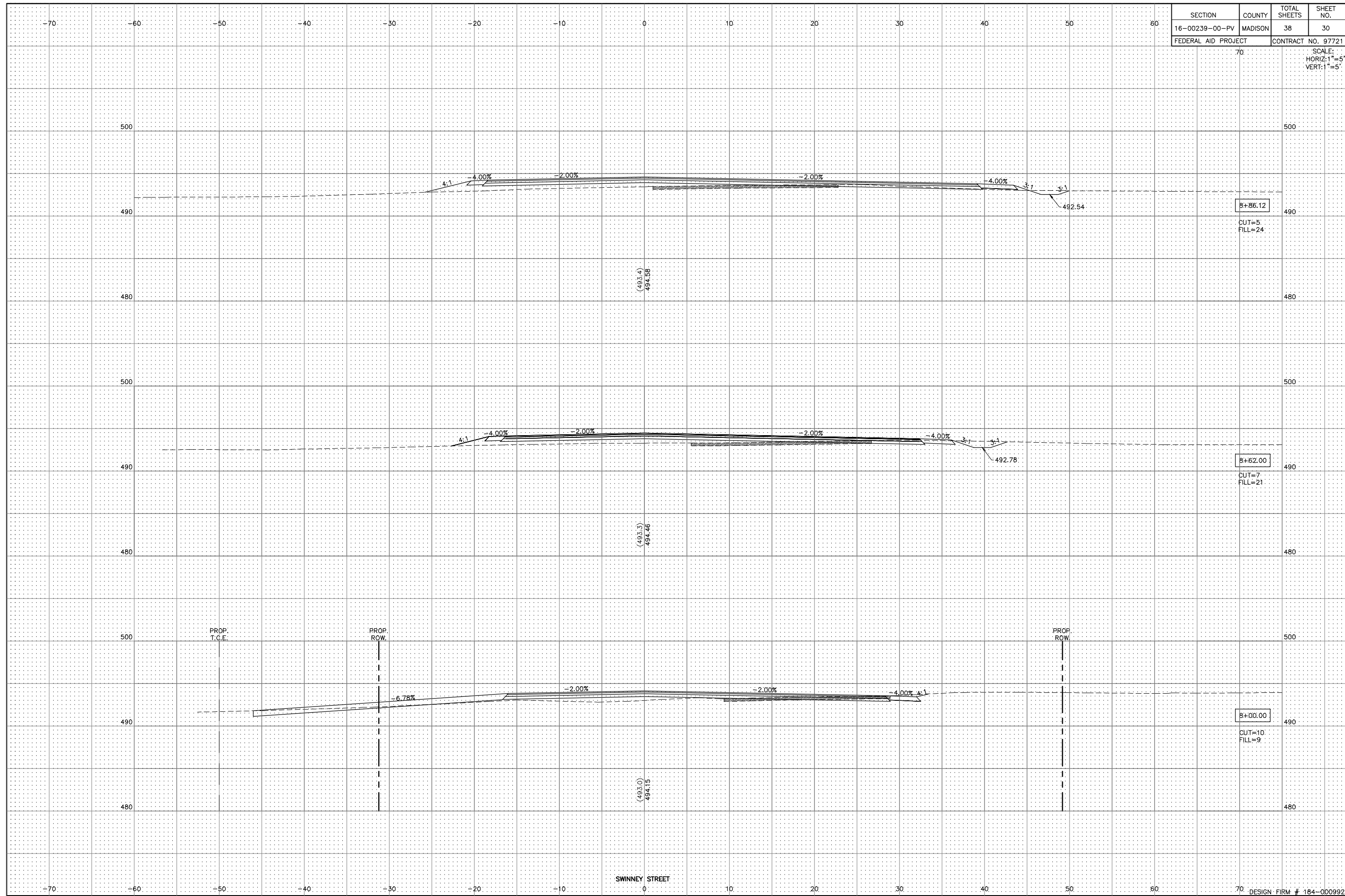
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16-00239-00-PV	MADISON	38	29
FEDERAL AID PROJECT		CONTRACT NO. 97721	

SCALE:  
HORIZ: 1"=5'  
VERT: 1"=5'



SWINNEY STREET

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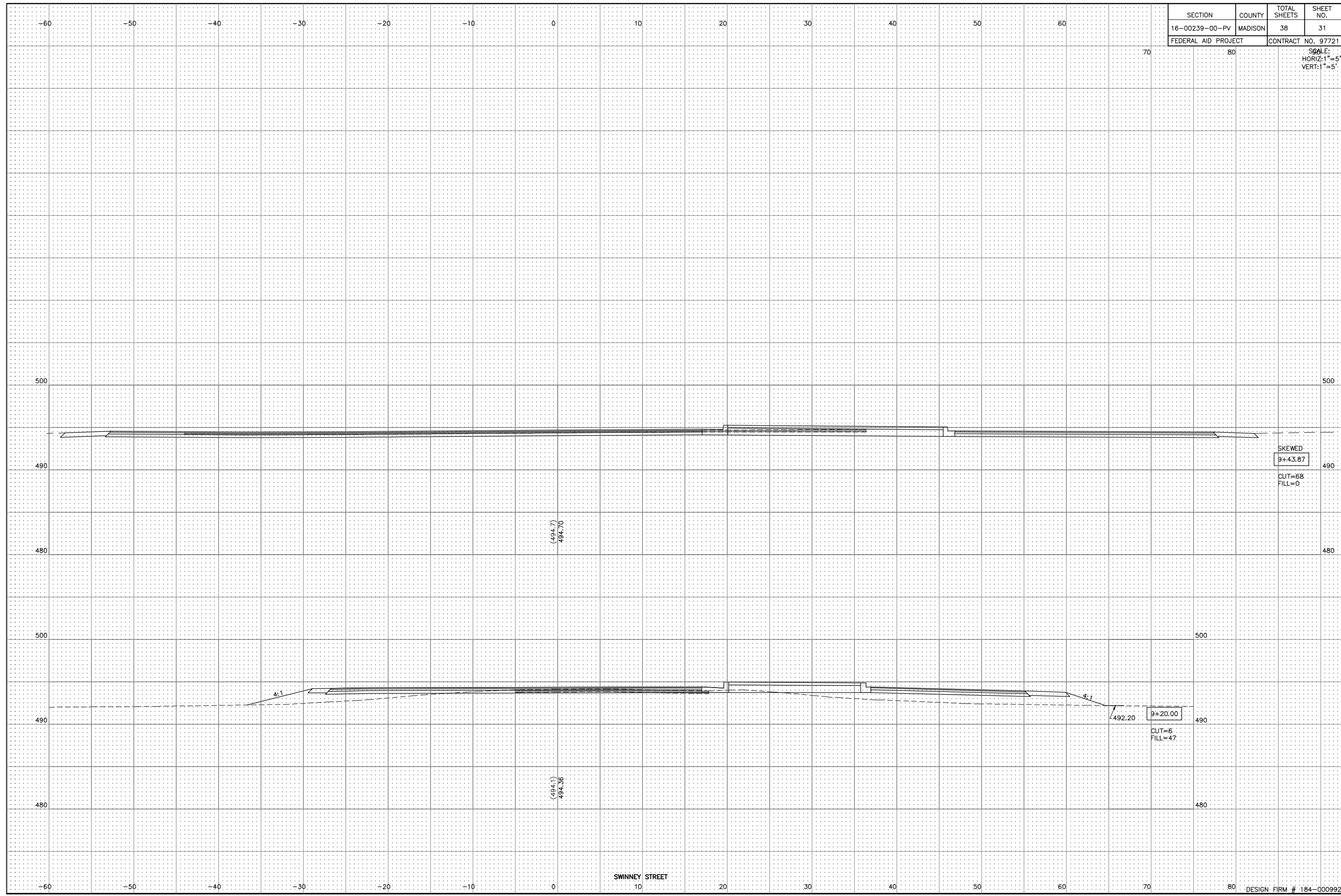
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16-00239-00-PV	MADISON	38	30

FEDERAL AID PROJECT CONTRACT NO. 97721

SCALE:  
HORIZ: 1"=5'  
VERT: 1"=5'

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16-00239-00-PV	MADISON	38	31
FEDERAL AID PROJECT		CONTRACT NO. 97721	

SCALE:  
HORIZ: 1"=5'  
VERT: 1"=5'



(494.7)  
494.70

(494.1)  
494.36

SKEWED  
9+43.87  
CUT=68  
FILL=0

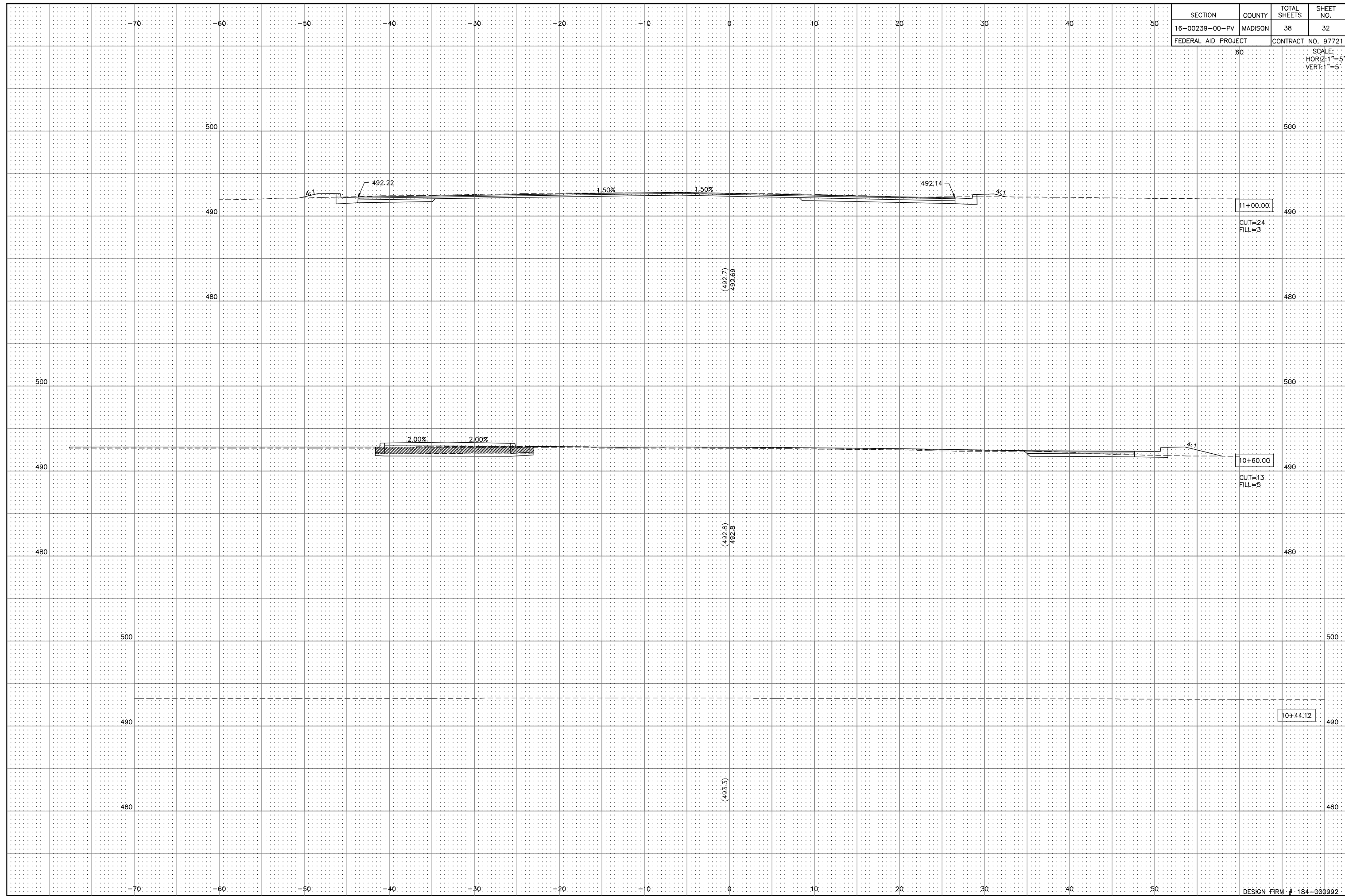
9+20.00  
CUT=6  
FILL=47

SWINNEY STREET

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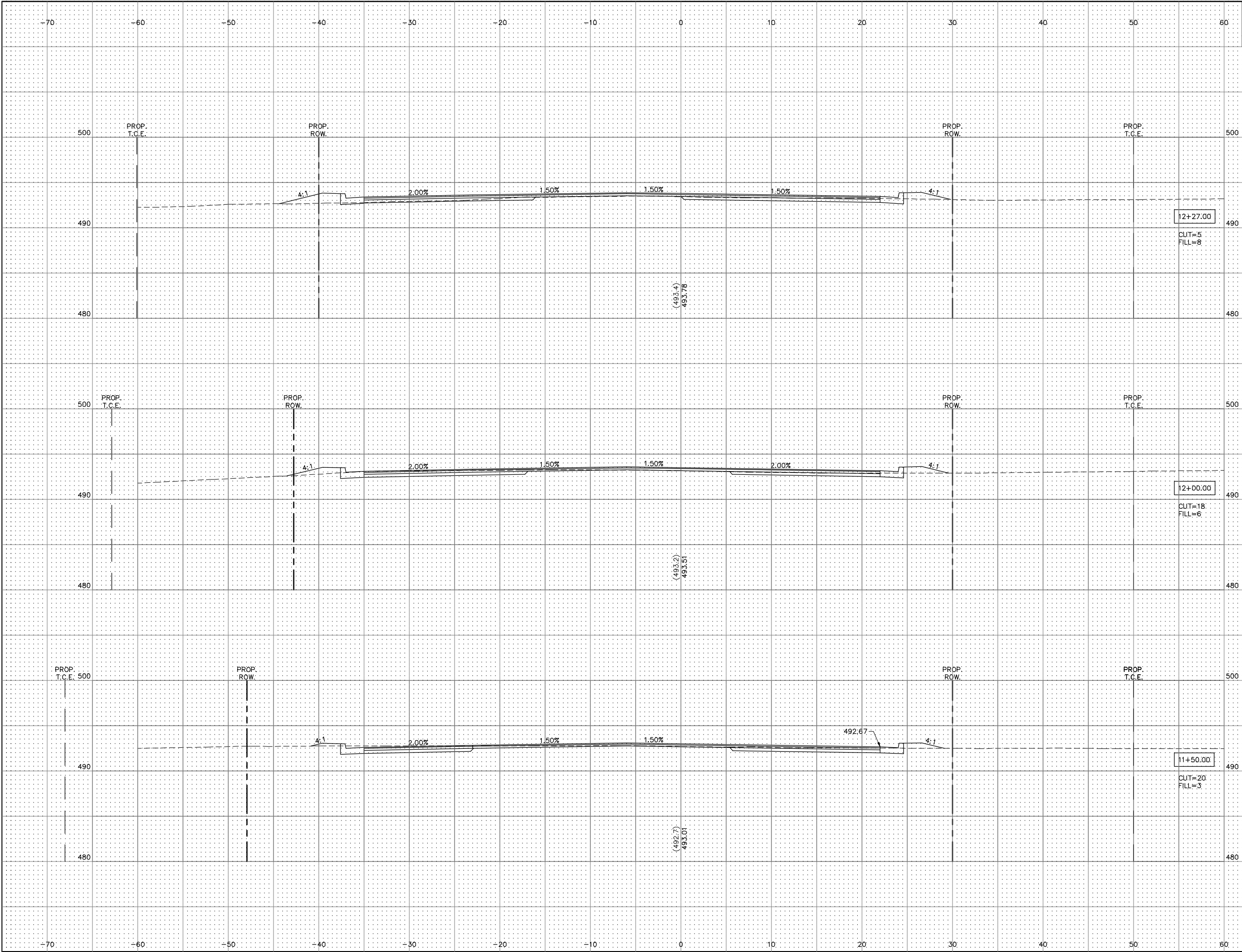


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SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16-00239-00-PV	MADISON	38	33
FEDERAL AID PROJECT		CONTRACT NO. 97721	

SCALE:  
HORIZ: 1"=5'  
VERT: 1"=5'



12+27.00

CUT=5  
FILL=8

12+00.00

CUT=18  
FILL=6

11+50.00

CUT=20  
FILL=3

(493.4)  
493.78

(493.2)  
493.51

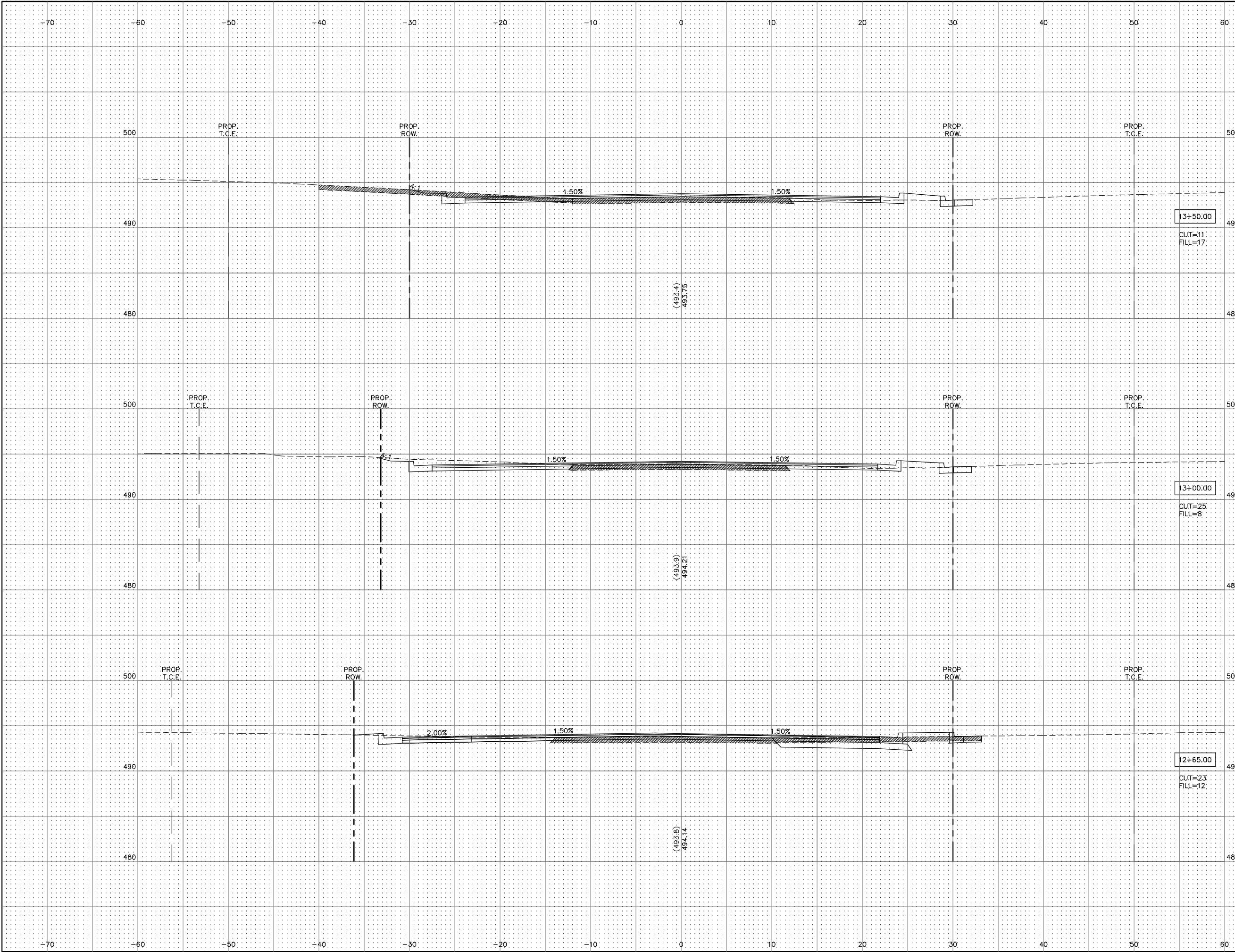
(492.7)  
493.01

492.67

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SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16-00239-00-PV	MADISON	38	34
FEDERAL AID PROJECT		CONTRACT NO. 97721	

SCALE:  
HORIZ: 1"=5'  
VERT: 1"=5'



13+50.00

CUT=11  
FILL=17

(493.4)  
493.75

PROP.  
T.C.E.

PROP.  
ROW.

PROP.  
ROW.

PROP.  
T.C.E.

13+00.00

CUT=25  
FILL=8

(493.9)  
494.21

PROP.  
T.C.E.

PROP.  
ROW.

PROP.  
ROW.

PROP.  
T.C.E.

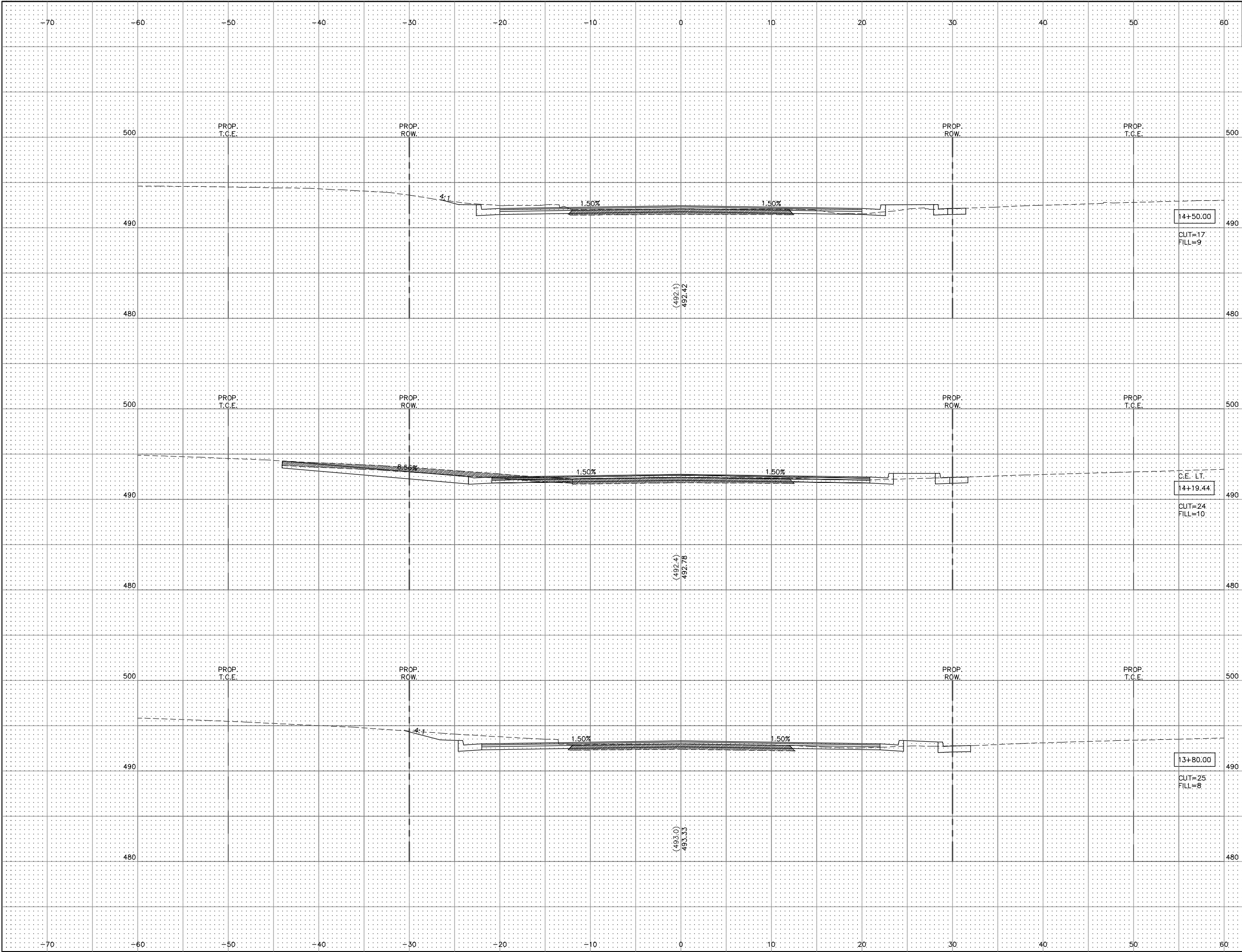
12+65.00

CUT=23  
FILL=12

(493.6)  
494.14

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16-00239-00-PV	MADISON	38	35
FEDERAL AID PROJECT		CONTRACT NO. 97721	

SCALE:  
HORIZ: 1"=5'  
VERT: 1"=5'



14+50.00  
CUT=17  
FILL=9

C.E. LT.  
14+19.44  
CUT=24  
FILL=10

13+80.00  
CUT=25  
FILL=8

(492.1)  
492.42

(492.4)  
492.76

(493.0)  
493.33

PROP.  
T.C.E.

PROP.  
ROW.

PROP.  
ROW.

PROP.  
T.C.E.

PROP.  
T.C.E.

PROP.  
ROW.

PROP.  
ROW.

PROP.  
T.C.E.

PROP.  
T.C.E.

PROP.  
ROW.

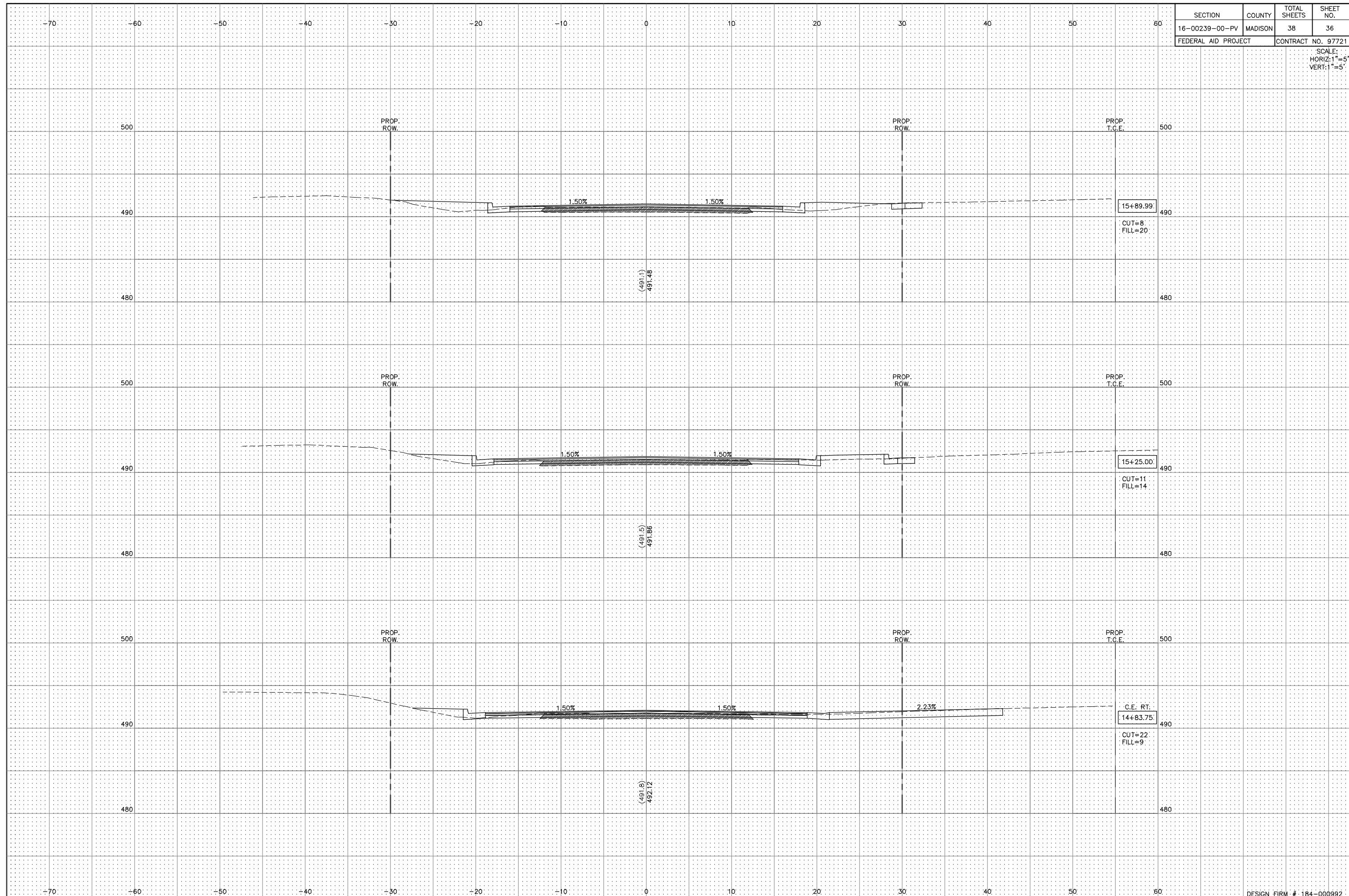
PROP.  
ROW.

PROP.  
T.C.E.

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SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16-00239-00-PV	MADISON	38	36
FEDERAL AID PROJECT		CONTRACT NO. 97721	

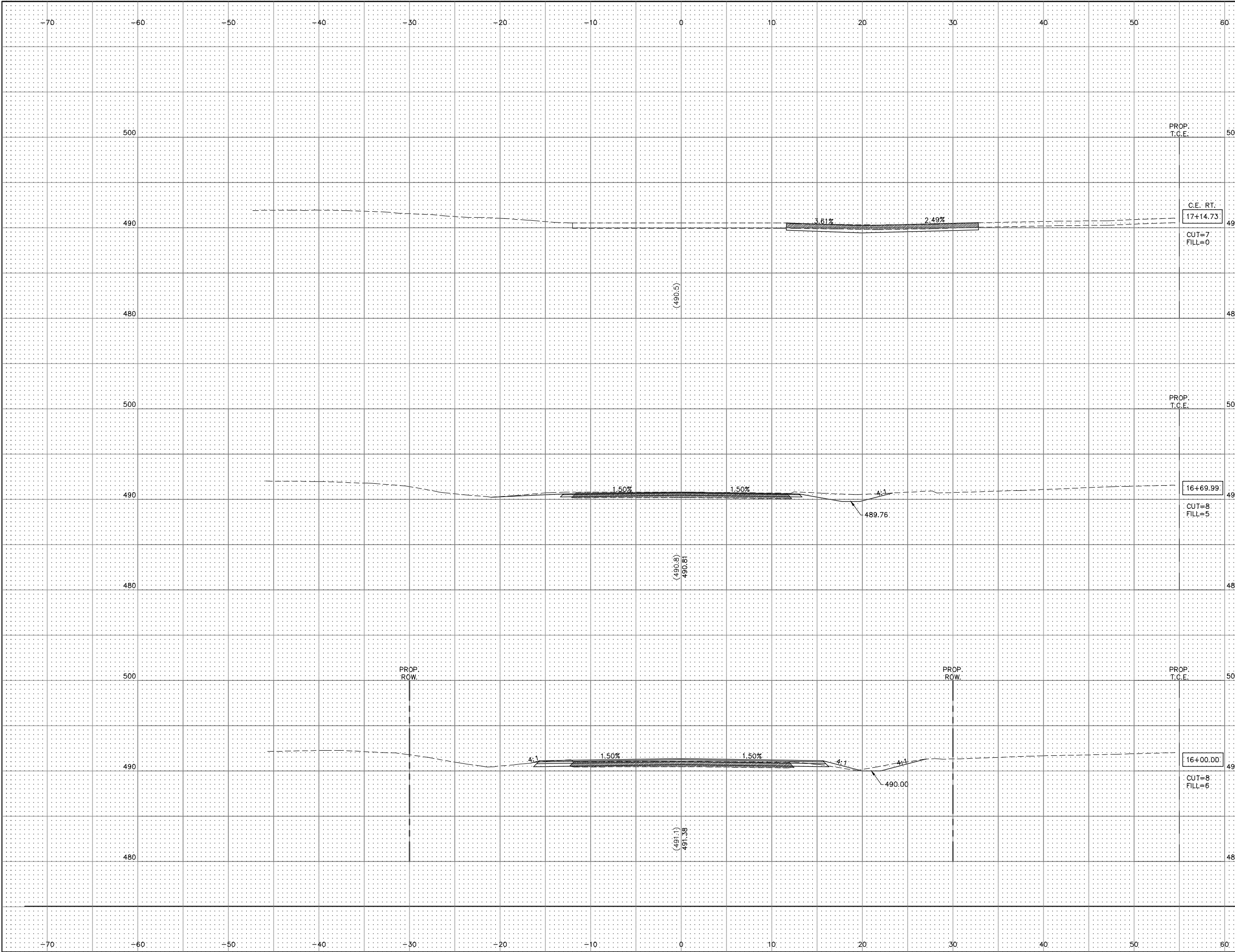
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VERT: 1"=5'



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SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16-00239-00-PV	MADISON	38	37
FEDERAL AID PROJECT		CONTRACT NO. 97721	

SCALE:  
HORIZ: 1"=5'  
VERT: 1"=5'



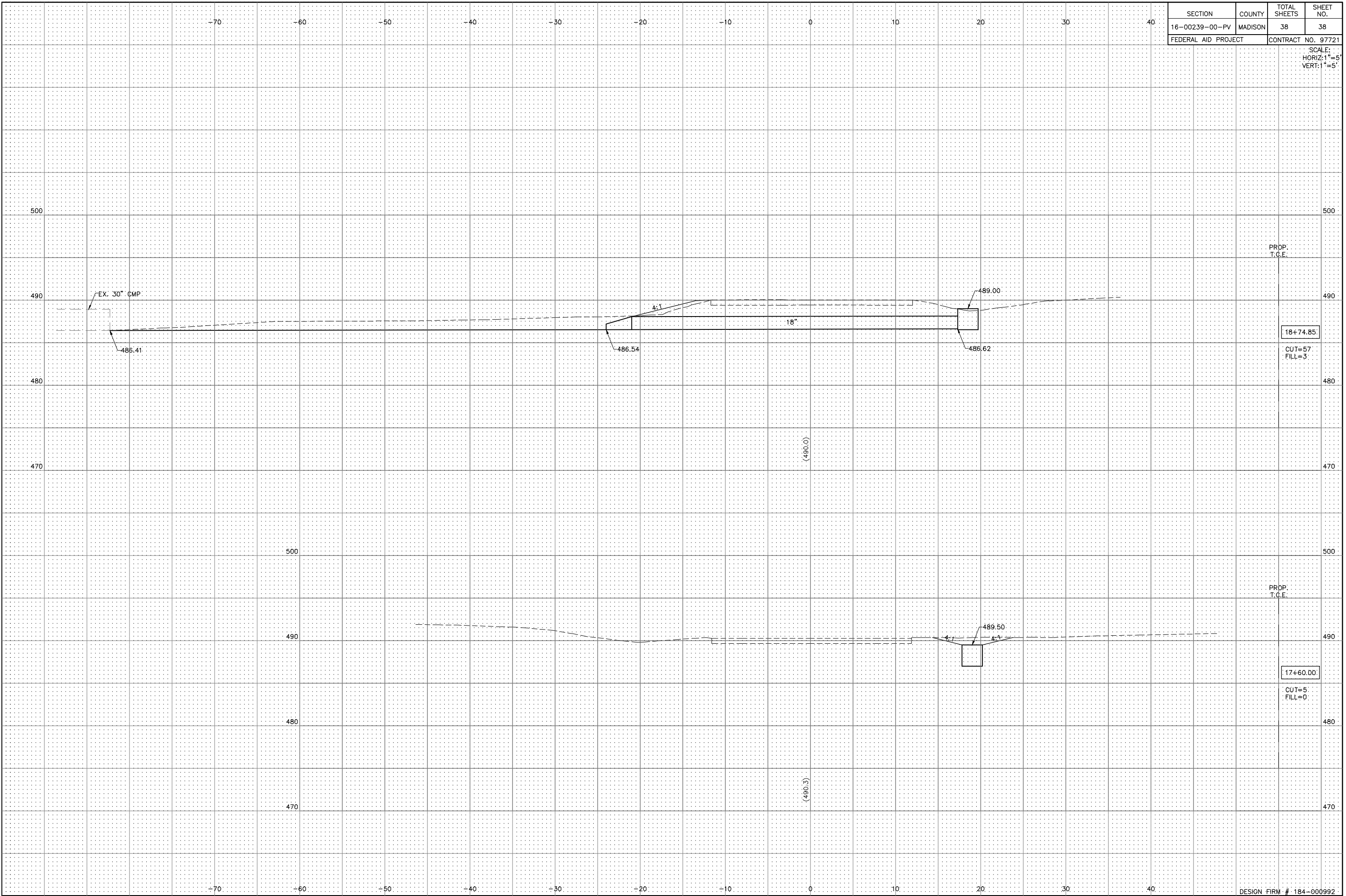
C.E. RT.  
17+14.73  
CUT=7  
FILL=0

16+69.99  
CUT=8  
FILL=5

16+00.00  
CUT=8  
FILL=6



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SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16-00239-00-PV	MADISON	38	38

FEDERAL AID PROJECT CONTRACT NO. 97721

SCALE:  
HORIZ: 1"=5'  
VERT: 1"=5'