

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

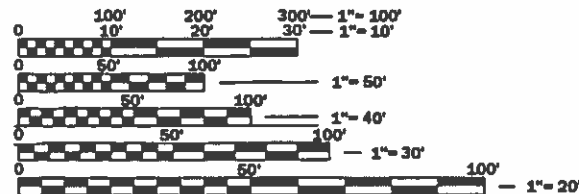
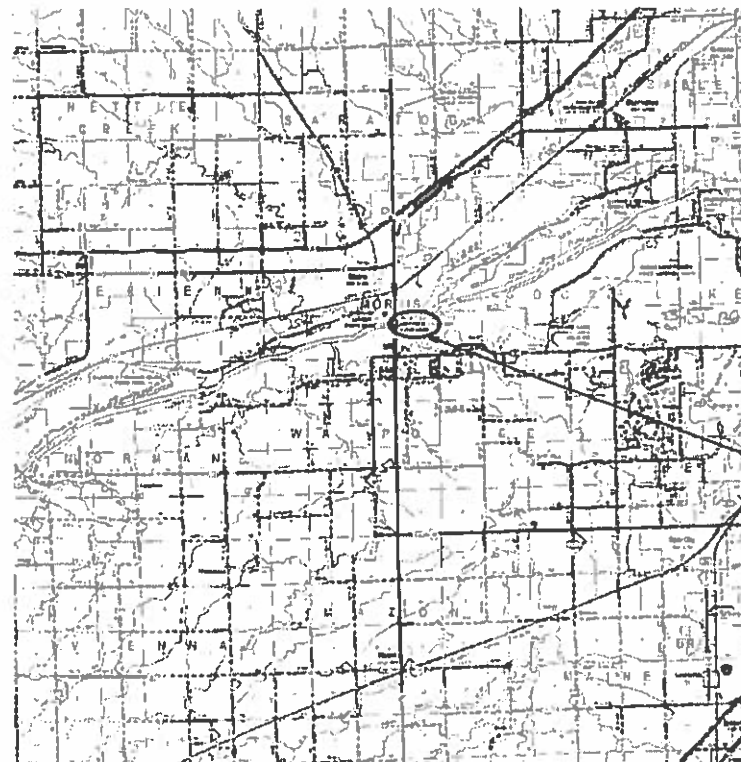
# PROPOSED HIGHWAY PLANS

STRATTON 2018  
WILLIAM G. STRATTON STATE PARK  
PROPOSED BRIDGE AND ROAD IMPROVEMENTS  
GRUNDY COUNTY  
C-30-017-18  
(IDNR PROJECT NO. 2-17-007)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	1
		ILLINOIS	CONTRACT NO. 46902	

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3-5 SUMMARY OF QUANTITIES
- 6-7 SCHEDULE OF QUANTITIES
- 8 TYPICAL SECTIONS
- 9 ALIGNMENT, TIES, AND BENCHMARK SHEET
- 10 EXISTING PARKING LOT REMOVAL
- 11 PROPOSED PARKING LOT PLAN
- 12 PRICE STREET PLAN/PROFILE
- 13 SIDEWALK GRADING DETAIL
- 14 PARKING LOT DETAILS
- 15 CANAL TOW PATH PLAN/PROFILE
- 16 TRAFFIC CONTROL
- 17-19 SIGN AND GATE DETAILS
- 20 ENTRANCE SIGN DETAILS
- 21 HANDICAP AND PAVED DITCH DETAILS
- 22-40 BRIDGE PLANS
- 41 PRICE STREET CROSS SECTIONS
- 42 CANAL TOW PATH CROSS SECTIONS



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.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER:  
CONSULTANT ENGINEER:



vasconcelles  
engineering corporation  
2417 west white oaks drive  
springfield, il 62704  
phone (217)698-3114

CONTRACT NO. 46902

GROSS LENGTH = 1550.00 FT. = 0.294 MILE  
NET LENGTH = 1550.00 FT. = 0.294 MILE



EXPIRES: 11/30/19  
SIGNED: 02/19/19

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 22, 2019

[Signature]  
REGIONAL ENGINEER

March 22, 2019

[Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

March 22, 2019





























[Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

## GENERAL NOTES

- 1) SPECIFICATIONS SHALL BE THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016.
- 2) ALL ELEVATIONS ARE REFERENCED TO ELEVATIONS ESTABLISHED BY OTHERS.
- 3) WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. IF THE ENGINEER DECIDES TO HAVE THE CONTRACTOR RESET THE MONUMENT, THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION.
- 4) THE CONTRACTOR SHALL CONTACT J.U.L.I.E. TO HAVE PUBLIC AND PRIVATE UTILITIES LOCATED PRIOR TO ANY CONSTRUCTION.
- 5) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.26 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS (800) 892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.
- 6) ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT AS INCLUDED IN THESE PLANS.
- 7) ALL DETAILS IN THE PLANS SHALL GOVERN CONSTRUCTION OF THIS PROJECT, AND IN CASE OF CONFLICT WITH ANY STANDARD DRAWINGS INCLUDED, THE SAID DETAILS SHALL TAKE PRECEDENCE AND GOVERN.
- 8) THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, IDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR THE LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- 9) ALL CONSTRUCTION LAYOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 10) ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.
- 11) THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING SHALL BE CLASS I. FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SEEDING OR PLACEMENT OF SOD AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF "TOPSOIL, FURNISH AND PLACE, VARIABLE DEPTH". MULCH METHOD II SHALL BE APPLIED OVER ALL SEEDED AREAS. THIS SHALL BE INCLUDED IN THE COST OF "TOPSOIL, FURNISH AND PLACE, VARIABLE DEPTH". THIS WORK SHALL NOT BE PAID SEPERATELY BUT SHALL BE INCIDENTAL TO THE CONTRACT.
- 12) THE BASELINES SHOWN THROUGHOUT THE PLANS ARE A "BEST FIT" ALIGNMENT OF THE CENTER OF THE EXISTING ROADWAYS FOR THE PURPOSE OF STATIONING AND DETERMINATION OF OFFSETS. IN MOST CASES, IT DOES NOT REPRESENT THE PHYSICAL CENTER OF THE EXISTING ROADWAY SURFACE.
- 13) CONSULT WITH THE SITE SUPERINTENDENT TO IDENTIFY STAGING AREAS AND MATERIAL STORAGE AREAS. THE AREA IDENTIFIED AS "BAY M" ON THE PLANS MAY BE USED FOR MATERIAL STORAGE AREAS. PART OF THAT AREA MUST REMAIN OPEN IN ORDER TO ALLOW ACCESS TO THE PRIVATE CAMPGROUND TO THE EAST. THE AREAS IDENTIFIED ON THE PLANS AS BAYS "J", "K", AND "L" MAY BE USED AS OVERFLOW MATERIAL STORAGE.
- 14) ALL TREES AND SHRUBBERY SHALL BE PROTECTED UNLESS THEY ARE SHOWN TO BE REMOVED ON THE DEMOLITION SHEETS.
- 15) ALL SIDEWALK AND RAMPS SHALL BE BUILT ACCORDING TO THE ELEVATIONS NOTED ON THE PLANS. THE MAXIMUM TRANSVERSE SLOPE FOR SIDEWALK IS 2% AND THE MAXIMUM LONGITUDINAL SLOPE FOR SIDEWALK WITHOUTH RAILINGS IS 5%. SIDEWALK ELEVATIONS ON THE PLANS WERE DESIGNED WITH A 1.5% MAXIMUM TRANSVERSE SLOPE AND A 4.3% MAXIMUM LONGITUDINAL SLOPE. THE MAXIMUM LONGITUDINAL SLOPE FOR THE SIDEWALK RAMP IS 1" PER FOOT.

## LEGEND

-  - EXISTING POWER POLE
-  - EXISTING GUY WIRE
-  - EXISTING SIGN
-  - EXISTING WOOD POST
-  - EXISTING FENCE POST
-  - EXISTING MAILBOX
-  32" - EXISTING DECIDUOUS TREE
-  12" - EXISTING EVERGREEN TREE
-  - EXISTING BUSH
-  - EXISTING JUNCTION BOX
-  - EXISTING ELECTRIC SPLICE BOX
-  - EXISTING TELEPHONE SPLICE BOX
-  - EXISTING WATER VALVE
-  - EXISTING CATCH BASIN
-  - EXISTING MANHOLE
-  - EXISTING END SECTION
-  - EXISTING PARKING BLOCK
-  - EXISTING A.D.A. PARKING SYMBOL
-  - EXISTING RIPRAP
-  - EXISTING FENCE LINE
-  - EXISTING DITCH LINE
-  - EXISTING GUARD RAIL
-  825 - EXISTING CONTOURS
-  - EXISTING TREE LINE
-  - EXISTING BUILDING LIMITS
-  - EXISTING CULVERT
-  - SOIL BORINGS
-  - PROPOSED SILT FENCE

## LIST OF STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH & FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-09	PAVEMENT JOINTS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
515001-03	NAME PLATE FOR BRIDGES
602301-04	INLETS, TYPE A
606201-04	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
606401-02	PAVED DITCH
630001-12	STEEL PLATE BEAM GUARDRAIL
631006-08	TRAFFIC BARRIER TERMINAL, TYPE 1B
701901-07	TRAFFIC CONTROL DEVICES
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE THE PLAN QUANTITIES

BITUMINOUS MATERIALS (PRIME COAT)	0.25 LB/SQ FT
BITUMINOUS CONCRETE SURFACE/BINDER	0.056 TON/SQ PER 1-INCH
PARKING LOT SEAL COAT	0.27 GAL/SQ YD

MODEL: D:\p\h\l S:\CAD Drawings\CAD Drawings\CAD Drawings\Construction Drawings\2501250-141\250-14-1-William Stratton\Construction Drawings\2501250-141\022 general.dgn

JOB NO. 250-14-0 VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES  
WILLIAM STRATTON STATE PARK**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	2
<b>CONTRACT NO. 46902</b>				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005	BRIDGE 0010
				URBAN	032-7099
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	56	56	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	19		19
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1380	1380	
21101600	TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH	SQ YD	95	95	
28000400	PERIMETER EROSION BARRIER	FOOT	51	51	
28000510	INLET FILTERS	EACH	2	2	
28100101	STONE RIPRAP, CLASS A1	SQ YD	415	415	
28100105	STONE RIPRAP, CLASS A3	SQ YD	25	25	
28200200	FILTER FABRIC	SQ YD	2990	2990	
28500400	ARTICULATED BLOCK REVETMENT MAT	SQ YD	1	1	
31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	1260	1260	
31102000	SUBBASE GRANULAR MATERIAL, TYPE C	CU YD	255	255	
42000110	PORTLAND CEMENT CONCRETE PAVEMENT 6 1/2"	SQ YD	1182	1182	
42001300	PROTECTIVE COAT	SQ YD	318		318

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005	BRIDGE 0010
				URBAN	032-7099
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	262	262	
* 42400800	DETECTABLE WARNINGS	SQ FT	36	36	
44000600	SIDEWALK REMOVAL	SQ FT	98	98	
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	20	20	
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	20	20	
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	110	110	
45100200	CRACK FILLING	POUND	10000	10000	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	102		102
50300225	CONCRETE STRUCTURES	CU YD	45		45
50300255	CONCRETE SUPERSTRUCTURE	CU YD	31		31
50300260	BRIDGE DECK GROOVING	SQ YD	217		217
50300280	CONCRETE ENCASEMENT	CU YD	6		6
50300285	FORM LINER TEXTURED SURFACE	SQ FT	854		854

\*= SPECIALTY ITEM

MODEL: D:\chil FILE NAME: S:\CAD Drawings\CAD Drawings\CAD Drawings\Stratton\Construction Drawings\046902.dwg 003-007 acad&sch&title.dgn

USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
DRAWN - S.D.K.	CHECKED - R.H.D.	REVISED -
PLOT SCALE = 40,0000' / in.	DATE - 11/17/17	REVISED -
PLOT DATE = 2/26/2019		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
WILLIAM STRATTON STATE PARK

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	3
			CONTRACT NO. 46902	
			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005	BRIDGE 0010
				URBAN	032-7099
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	2918		2918
50600200	PAINTING STEEL RAILING	FOOT	154		154
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	13480		13480
50901750	PARAPET RAILING	FOOT	154		154
51201600	FURNISHING STEEL PILES HP12X53	FOOT	965		965
51202305	DRIVING PILES	FOOT	965		965
51500100	NAME PLATES	EACH	1		1
51602000	PERMANENT CASING	FOOT	48		48
54210182	PIPE ELBOW, 12"	EACH	2	2	
54262712	METAL FLARED END SECTIONS 12"	EACH	1	1	
550B0050	STORM SEWERS, CLASS B, TYPE 1 12"	FOOT	54	54	
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	28.8		28.8
60602800	CONCRETE GUTTER, TYPE B	FOOT	92	92	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	186	186	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005	BRIDGE 0010
				URBAN	032-7099
* 63100041	TRAFFIC BARRIER TERMINAL, TYPE 1B	EACH	2	2	
67100100	MOBILIZATION	L SUM	1	1	
* 72000100	SIGN PANEL - TYPE 1	SQ FT	15	15	
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	36	36	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	9376	9376	
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	1873	1873	
X0300019	REMOVE AND REINSTALL PARKING BLOCKS	EACH	22	22	
X0301797	GATE REMOVAL	EACH	3	3	
X0323013	TUBULAR STEEL GATE	EACH	3	3	
X0324062	ENTRANCE SIGN	L SUM	1	1	
X0325862	CONCRETE BRIDGE RAILING	FOOT	195		195
X0327308	PARKING LOT SEAL COAT	GALLON	5881	5881	
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	3382	3382	
X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	741	741	

\*= SPECIALTY ITEM

MODEL: D:\cadd\SS-CAD\Drawings\CAD\Drawings\Construction\Drawings\0346902.dwg, 003-007.dwg, 0346902.dwg, 003-007.dwg, 0346902.dwg

USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
DRAWN - S.D.K.	CHECKED - R.H.D.	REVISED -
PLOT SCALE = 40,0000' / in.	DATE - 11/17/17	REVISED -
PLOT DATE = 2/26/2019		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
WILLIAM STRATTON STATE PARK

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	4
			CONTRACT NO. 46902	
			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY	BRIDGE
				0005 URBAN	0010 032-7099
X4020900	AGGREGATE SURFACE COURSE, TYPE B SPECIAL	SQ YD	39	39	
X5030290	STAINING CONCRETE STRUCTURES	SQ FT	1842		1842
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	239		239
X6024242	INLETS, SPECIAL, NO. 1	EACH	2	2	
X6061460	PAVED DITCH (SPECIAL)	FOOT	20	20	
X6340205	GUARD POSTS REMOVAL	EACH	38	38	
X7010216	TRAFFIC CONTROL AND PROTECTION, SPECIAL	L SUM	1	1	
X7240300	SIGN REMOVAL	EACH	2	2	
X7240600	REMOVE AND RE-ERECT EXISTING SIGN	EACH	5	5	
X7280105	TELESCOPING STEEL SIGN SUPPORT (SPECIAL)	FOOT	36	36	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0022800	FENCE REMOVAL	FOOT	24	24	
Z0023500	FILLING EXISTING CULVERTS	CU YD	3	3	

MODEL: D:\ehill SS\CAD Drawings\CAD Drawings\CAD Drawings\Construction Drawings\0346902.dwg, 003-007.scd&schedule.dgn  
 FILE NAME: SS\CAD Drawings\CAD Drawings\CAD Drawings\Construction Drawings\0346902.dwg, 003-007.scd&schedule.dgn

USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
	DRAWN - S.D.K.	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 2/26/2019	DATE - 11/17/17	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
**WILLIAM STRATTON STATE PARK**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	5
			CONTRACT NO. 46902	
		ILLINOIS	FED. AID PROJECT	

MODEL: D:\chill...  
 FILE NAME: S:\CAD Drawings\CAD Drawings\250250-141\250-141-1, William Stratton\Construction Drawings\250250-141\250-141-1.dwg

**MISCELLANEOUS ITEMS SCHEDULE**

STA.	STA.	TREE REMOV OVER 15 UNIT 20100210	GEOTECH FABRIC GND STABILIZE (SQ YD) 21001000	TOPSOIL FURN & PLACE, VAR DEPTH (SQ YD) 21101600	PER. EROSION BARRIER (FOOT) 28000400	INLET FILTERS (EACH) 28000510	STONE RIPRAP CLASS A1 (SQ YD) 28100101	STONE RIPRAP CLASS A3 (SQ YD) 28100105	FILTER FABRIC (SQ YD) 28200200	SPBGR TY A 6FT POSTS (FOOT) 63000001	TRAFFIC BARR. TERM TY 1B (EACH) 63100041	SIGN PANEL TYPE 1 (SQ FT) 72000100	REMOVE & REINSTALL PARKING BLCKS X0300019	GATE REMOVAL (EACH) X0301797	TUB STEEL GATE (EACH) X0323013	ENTRANCE SIGN (L SUM) X0323013	EARTH EX SPECIAL (CU YD) X2020410	GUARD POSTS REMOV (EACH) X6340205	SIGN REMOVAL (EACH) X7240300	RMV & REERT EXIST SIGN (EACH) X7240600	TEL STEEL SIGN SUP (SPEC) (FOOT) X7280105	FENCE REMOVAL (FOOT) Z0022800	FILL EXIST CULVERTS (CU YD) Z0023500
89+25.23, 134.68' LT																1			1				
89+87.75, 24.4' RT	to																597						
89+79.18, 165.0' LT															1	1							
90+00.07, 92.0' RT	to						415																
90+00.07, 24.37' RT	to		1380						2990														
90+34.51, 95.32' RT		26																					
90+53.94, 90.2' RT	to																						
90+56.79, 92.65' RT																							
92+93.35, 27.47' LT												4									1		
93+21.15, 27.59' LT												4										12	
93+48.37, 33.40' RT	to												3									12	
93+48.97, 27.71' LT												2										12	
100+78.85, 14.1' RT																							
100+78.85, 14.1' RT	to									186													
102+47.89, 94.34' RT	to																						
102+53.70, 12' RT																							
102+58.00, 66' LT	to																						2.6
102+60.45, 21.2' RT																							
102+60.45, 23.0' RT																							
102+90.60, 23.38' RT	to																						
102+90.89, 23.04' LT	to																						
102+91.69	to																						
103+05.00	to																						
103+20.50, 10.5' LT	to																						
103+21.77, 10.0' RT	to																						
103+27.91, 10.68' LT																							
103+29.19, 10.64' RT																							
103+30.95	to																						
104+25.04	to																						
104+25.5, 9.5' RT & LT																							
104+27.30, 16.32' LT																							
104+29.00, 14.0' LT	to																						
104+29.70	to																						
104+33.00, 13.0' RT																							
104+40.00	to																						
104+46.50, 18' LT																							
200+72.76, 7.6' RT																							
200+80.00, 7.6' RT																							
200+87.88	to																						
201+14.50	to																						
201+24.72, 6.3' LT																							
201+32.11, 6.6' LT																							
		56	1,380	94.9	51.0	2.0	415	25	2,990	186	2	14.5	22	3	3	1	741	38	2	5	36	24	2.6

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES  
WILLIAM STRATTON STATE PARK

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	6
CONTRACT NO. 46902				
ILLINOIS FED. AID PROJECT				

USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
	DRAWN - S.D.K.	REVISED -
PLOT SCALE = 40,000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 2/26/2019	DATE - 11/17/17	REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

JOB NO. 250-141-0 VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

## PAVING SCHEDULE

STA.	STA.	SUB GRAN MAT TY C (CU YD)	SUB GRAN MAT A 4 (SQ YD)	PCC PVT 6 1/2 (SQ YD)	PORT CEMENT CONC SIDE (6") (SQ FT)	DETECTABLE WARNINGS SQ FT	SIDEWALK REM (SQ FT)	CRACK FILLING (POUND)	CONCRETE GUTTER, TY B (FOOT)	PARK LOT SEAL CT (GALLON)	AGG SURF CSE B SPEC (SQ YD)	PAVED DITCH SPECIAL (FOOT)
		31102000	31100300	42000110	42400300	42400800	44000600	45100200	60602800	X0327308	X4020900	X6061460
90+00.07	to 91+25.29	255	1069	1031								
90+30.10	to 90+55.68								25.9			
90+48.97	to 90+58.94								65.6			20
90+60.68	to 91+23.4											
102+91.69	to 103+30.95		100.4	91.7								
102+91.69	to 103+35.60											
103+18.02, 11.0' LT	to 103+30.95, 11.0' LT		8		78.2							
103+20.50, 10.5' LT	to 103+35.50, 10.5' LT						77.5					
103+21.17, 11.0' RT	to 103+28.46, 11.0' RT		5.5		49.6							
103+21.77, 10.0' RT	to 103+31.77, 10.4' RT						20					
104+29.70	to 104+54.08		77.2	59.6	133.7	8						
104+29.7	to 104+54.08											
200+57.56	to 200+85.35										22	
201+88.85	to 200+90.85					14						
201+13.13	to 201+15.13					14						
201+19.32	to 201+40.01										17	
PARKING LOT												
									10000	5881		
		255.0	1,260.1	1,182.3	261.5	36.0	97.5	10,000.0	91.5	5,881.0	39.0	20.0

## DRAINAGE SCHEDULE

STA.	STA.	ART. BLOCK REVET. MAT (SQ YD)	PIPE ELBOW 12" (EACH)	METAL END SECTION 12" (EACH)	STORM SEW. CL B TY 1, 12" (FOOT)	INLETS, SPEC. NO. 1 (EACH)
		28500400	54210182	54262712	55080050	X6024242
102+97.02, 31.8' LT	to 103+00.39, 33.1' LT	1				
103+01.06, 30.8' LT				1		
103+03.51, 29.0' LT	to 103+01.06, 30.8' LT				3	
103+03.51, 29.0' LT			1			
103+14.23, 21.4' LT	to 103+03.51, 29.0' LT				13	
103+14.23, 21.4' LT			1			
103+28.75, 10.7' LT	to 103+14.23, 21.4' LT				17	
103+28.75, 10.7' LT						1
103+29.56, 10.7' LT	to 103+28.75, 10.7' RT				21	
103+29.56, 10.7' LT						1
<b>TOTAL =</b>		<b>1</b>	<b>2</b>	<b>1</b>	<b>54</b>	<b>2</b>

## PAVEMENT MARKING SCHEDULE

STA.	STA.	PAINT PVT MARK LET & SYM (SQ FT)	PAINT PVT MARK LINE 4" (FOOT)	PAINT PVT MARK LINE 6" (FOOT)	PAVMT MRKG REM GRIND (SQ FT)
		78001100	78001110	78001130	X0327979
VISITOR CENTER PARKING LOT					
	BAY "A"		600		189
	BAY "B"		591		210
	BAY "C"		745		248
	BAY "D"	9.3	675	794	473
	BAY "E"	15.5	318	1,079	345
	BAY "F"		670		220
	BAY "G"		646		231
	BAY "H"		793		248
	BAY "I"		845		297
	BAY "J"		769		264
	BAY "K"		364		132
	BAY "L"		234		99
	BAY "M"		451		136
	BAY "N"		120		40
	Boat Ramp	11.6	1,555		250
<b>TOTAL =</b>		<b>36.4</b>	<b>9,376</b>	<b>1,873</b>	<b>3,382</b>

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

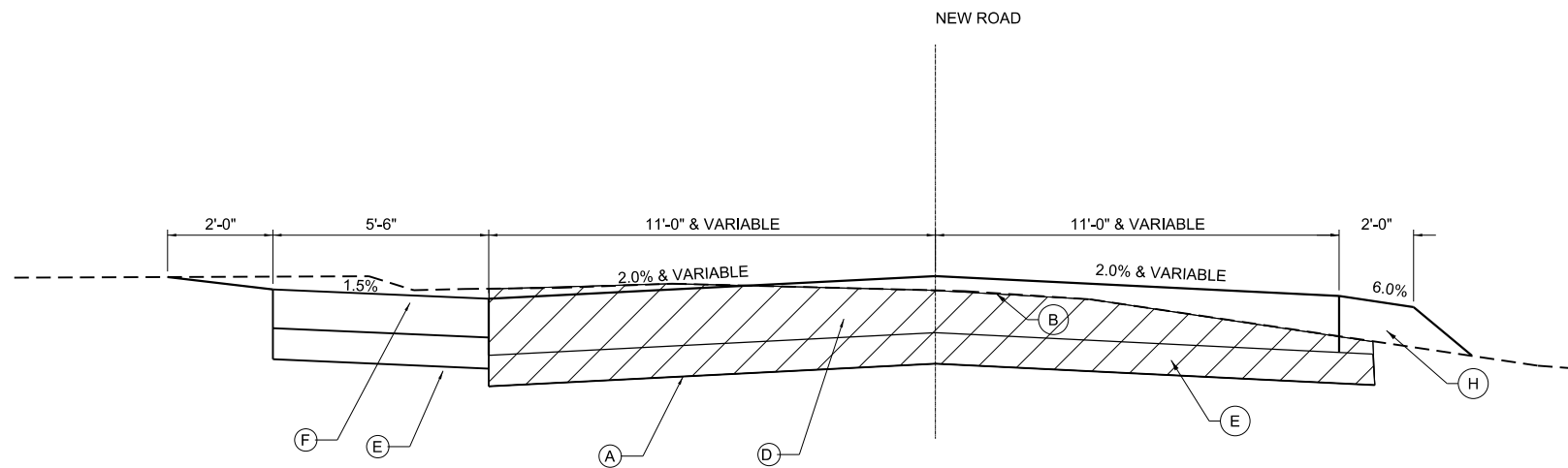
SCHEDULE OF QUANTITIES  
WILLIAM STRATTON STATE PARK

SCALE: SHEET OF SHEETS STA. TO STA.

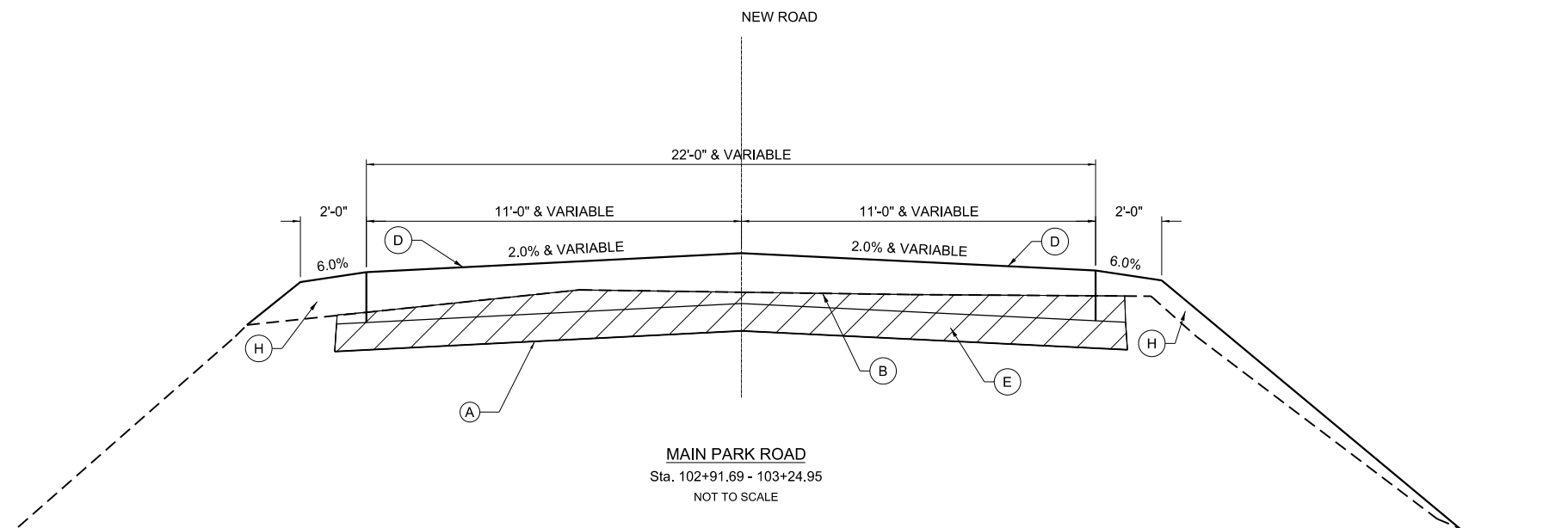
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	7
CONTRACT NO. 46902				
ILLINOIS FED. AID PROJECT				

MODEL: D:\h\h\... S:\CAD Drawings\CAD Drawings\250\250-141\250-141-1 William Stratton Construction Drawings\0346902.dgn

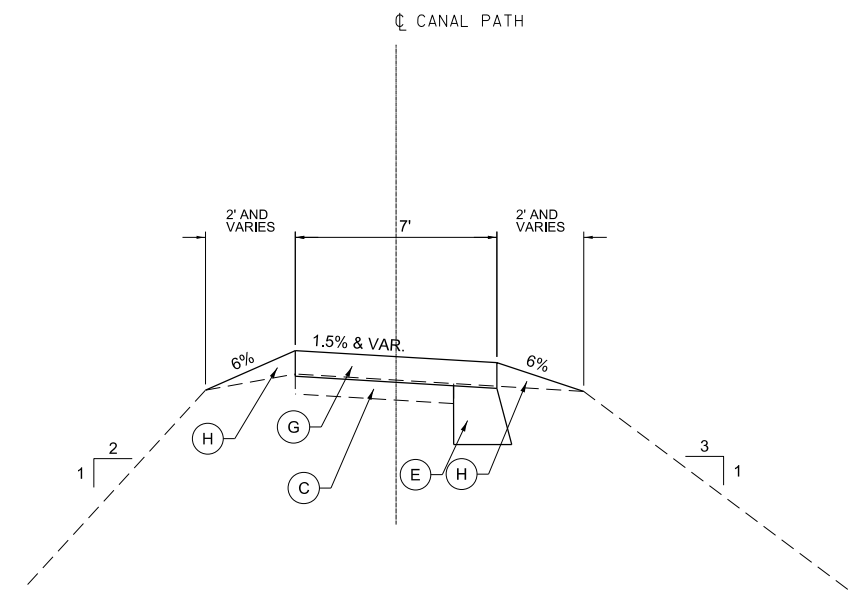
USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
	DRAWN - S.D.K.	REVISED -
PLOT SCALE = 40,000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 2/14/2019	DATE - 11/17/17	REVISED -



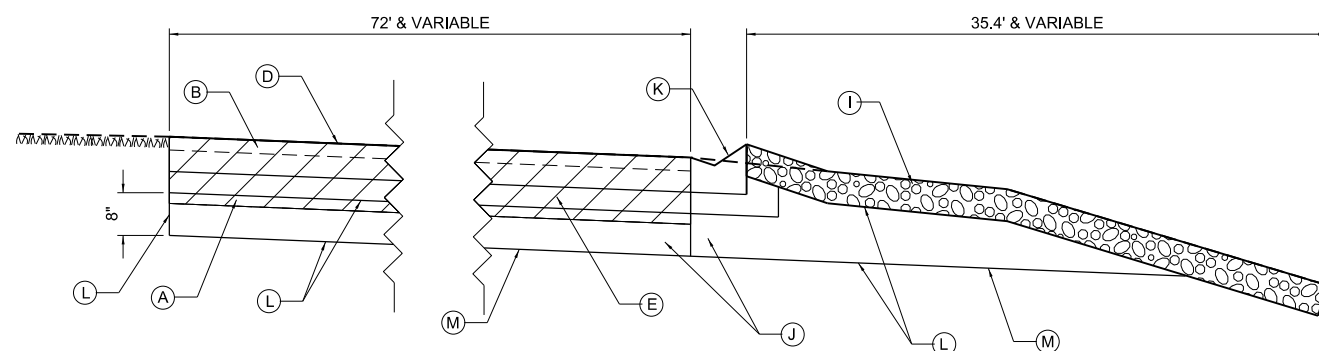
**MAIN PARK ROAD**  
Sta. 103+24.95 - 103+30.95  
Sta. 104+29.70 - 104+54.08  
NOT TO SCALE



**MAIN PARK ROAD**  
Sta. 102+91.69 - 103+24.95  
NOT TO SCALE



**CANAL TOW PATH**  
Sta. 200+57.56 - 201+40.00  
SCALE: 1" = 3'



**WEST PARKING LOT**  
Sta. 90+00.07 - 91+23.74  
NOT TO SCALE

- (A) EXISTING AGGREGATE BASE COURSE, VARIABLE THICKNESS
- (B) EXISTING ASPHALT SURFACE
- (C) EXISTING AGGREGATE SURFACE
- (D) NEW PORTLAND CEMENT CONCRETE PAVEMENT 6-1/2"
- (E) NEW SUBBASE GRANULAR MATERIAL, TYPE A 4"
- (F) NEW PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH
- (G) NEW AGGREGATE SURFACE, VARIABLE DEPTH
- (H) TOP SOIL, VARIABLE DEPTH
- (I) NEW STONE RIPRAP, CLASS A2, 6"
- (J) NEW SUBBASE GRANULAR MATERIAL, TYPE C
- (K) NEW CONCRETE GUTTER, TYPE B
- (L) NEW FILTER FABRIC
- (M) NEW GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ▨ AREAS TO BE REMOVED

MODEL: D:\p\h\l  
FILE NAME: D:\46902-eh\006.rvt.dgn

USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
	DRAWN - S.D.K.	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 2/14/2019	DATE - 11/17/17	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

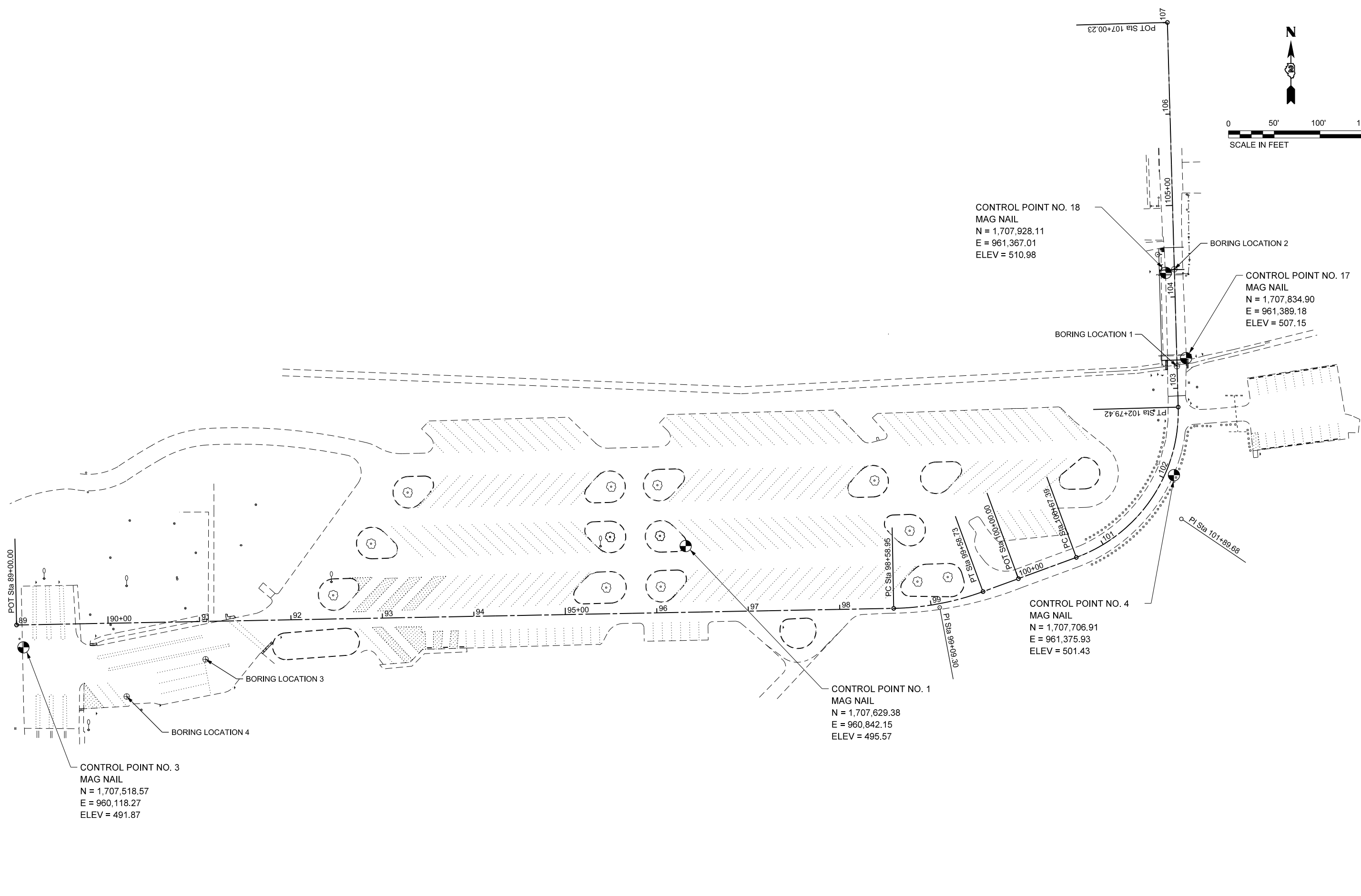
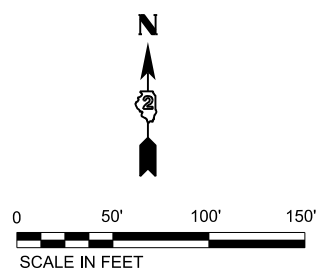
TYPICAL SECTIONS  
WILLIAM STRATTON STATE PARK

SCALE: 1" = 3' SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	8
			CONTRACT NO. 46902	
		ILLINOIS	FED. AID PROJECT	

JOB NO. 250-141-0 VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107





CONTROL POINT NO. 18  
MAG NAIL  
N = 1,707,928.11  
E = 961,367.01  
ELEV = 510.98

CONTROL POINT NO. 17  
MAG NAIL  
N = 1,707,834.90  
E = 961,389.18  
ELEV = 507.15

CONTROL POINT NO. 4  
MAG NAIL  
N = 1,707,706.91  
E = 961,375.93  
ELEV = 501.43

CONTROL POINT NO. 1  
MAG NAIL  
N = 1,707,629.38  
E = 960,842.15  
ELEV = 495.57

CONTROL POINT NO. 3  
MAG NAIL  
N = 1,707,518.57  
E = 960,118.27  
ELEV = 491.87

MODEL: D:\p\h\l S:\CAD Drawings\CAD Drawings\250250-141\250-141-1 William Stratton\Construction Drawings\250250-141-007 alignment.dwg  
 FILE NAME: S:\CAD Drawings\CAD Drawings\250250-141\250-141-1 William Stratton\Construction Drawings\250250-141-007 alignment.dwg

USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
	DRAWN - S.D.K.	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 2/14/2019	DATE - 11/17/17	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES & BENCHMARK SHEET  
WILLIAM STRATTON STATE PARK**

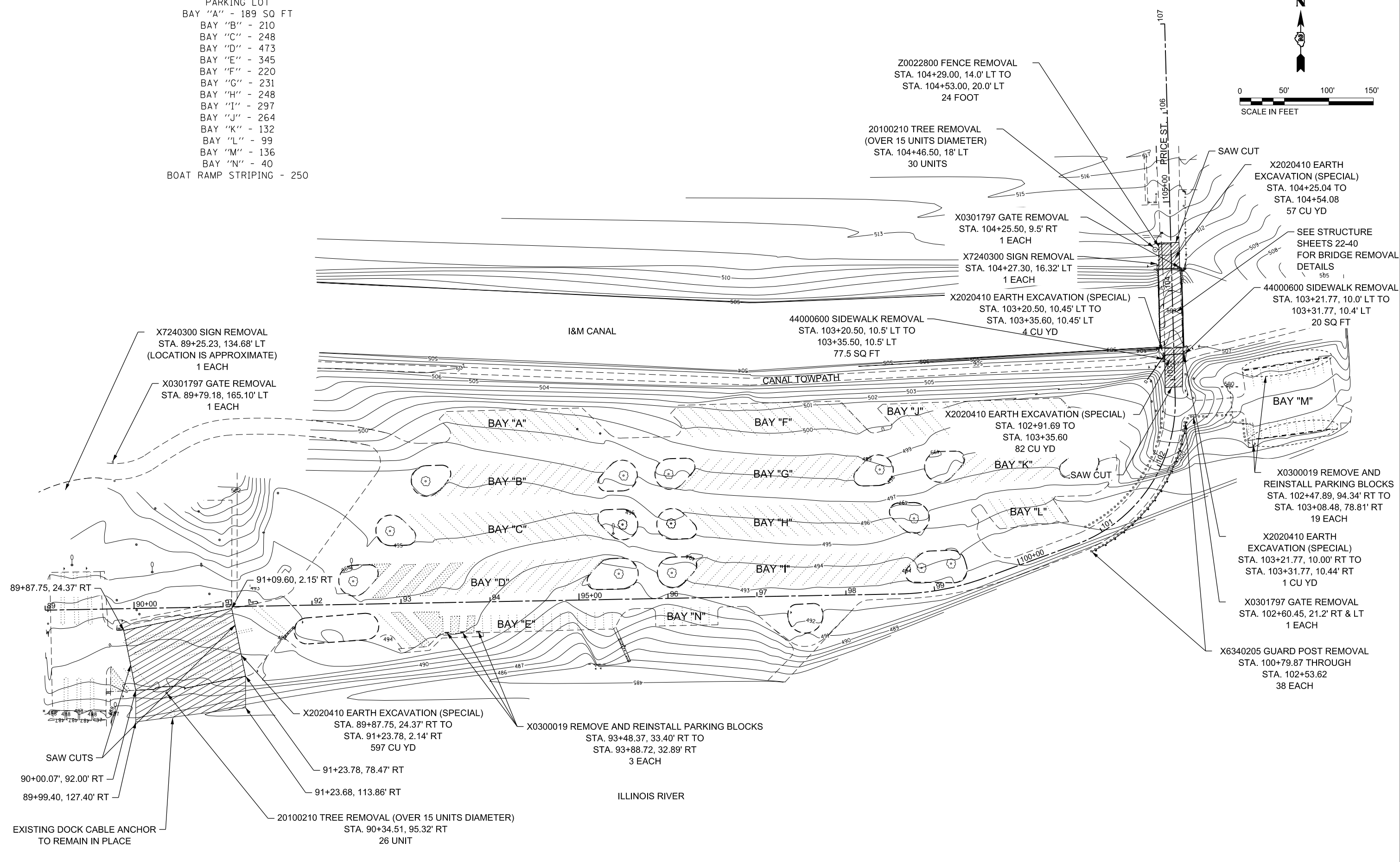
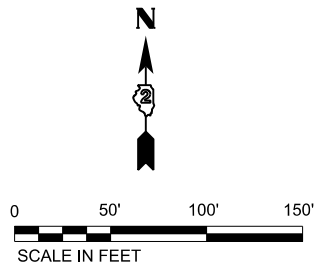
SCALE: 1"=50'      SHEET    OF    SHEETS    STA.                    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 46902	

JOB NO. 250-141-0 VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

X0327979 PAVEMENT MARKING REMOVAL-GRINDING

- PARKING LOT
- BAY "A" - 189 SQ FT
- BAY "B" - 210
- BAY "C" - 248
- BAY "D" - 473
- BAY "E" - 345
- BAY "F" - 220
- BAY "G" - 231
- BAY "H" - 248
- BAY "I" - 297
- BAY "J" - 264
- BAY "K" - 132
- BAY "L" - 99
- BAY "M" - 136
- BAY "N" - 40
- BOAT RAMP STRIPING - 250



MODEL: D:\cadd\SS\CAD Drawings\CAD Drawings\250350-141\250-141-1, William Stratton Construction Drawings\250350-141\_008\_cadd\plan.dwg  
 FILE NAME: SS\CAD Drawings\CAD Drawings\250350-141\250-141-1, William Stratton Construction Drawings\250350-141\_008\_cadd\plan.dwg

USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
DRAWN - S.D.K.	REVISED -	
PLOT SCALE = 100.0000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 2/26/2019	DATE - 11/17/17	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING PARKING LOT REMOVAL**  
**WILLIAM STRATTON STATE PARK**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	10
CONTRACT NO. 46902				
ILLINOIS	FED. AID PROJECT			

JOB NO. 250-141-O VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

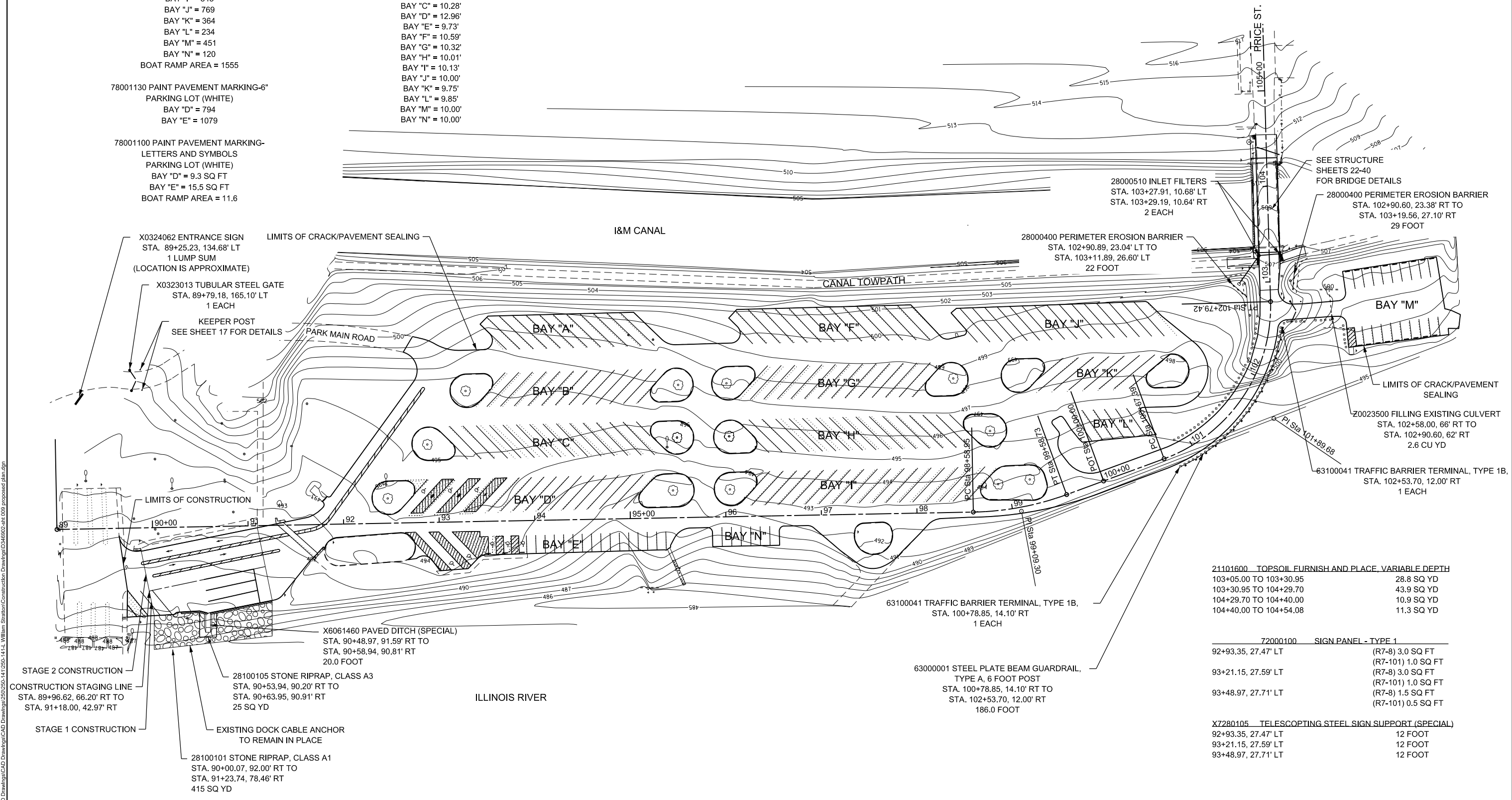
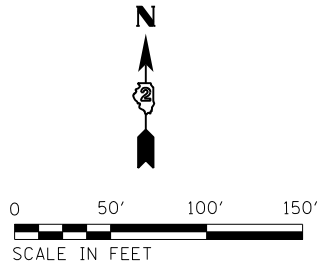
- 78001110 PAINT PAVEMENT MARKING-4" PARKING LOT (WHITE)
  - BAY "A" = 600 FOOT
  - BAY "B" = 591
  - BAY "C" = 745
  - BAY "D" = 675
  - BAY "E" = 318
  - BAY "F" = 670
  - BAY "G" = 646
  - BAY "H" = 793
  - BAY "I" = 845
  - BAY "J" = 769
  - BAY "K" = 364
  - BAY "L" = 234
  - BAY "M" = 451
  - BAY "N" = 120
- BOAT RAMP AREA = 1555

- 78001130 PAINT PAVEMENT MARKING-6" PARKING LOT (WHITE)
  - BAY "D" = 794
  - BAY "E" = 1079

- 78001100 PAINT PAVEMENT MARKING-LETTERS AND SYMBOLS PARKING LOT (WHITE)
  - BAY "D" = 9.3 SQ FT
  - BAY "E" = 15.5 SQ FT
- BOAT RAMP AREA = 11.6

- 45100200 CRACK FILLING PARKING LOTS 10,000 POUND
- X0327308 PARKING LOT SEAL COAT PARKING LOTS 5,881 GALLONS

- PARKING SPACE WIDTH
  - BAY "A" = 10.00'
  - BAY "B" = 10.23'
  - BAY "C" = 10.28'
  - BAY "D" = 12.96'
  - BAY "E" = 9.73'
  - BAY "F" = 10.59'
  - BAY "G" = 10.32'
  - BAY "H" = 10.01'
  - BAY "I" = 10.13'
  - BAY "J" = 10.00'
  - BAY "K" = 9.75'
  - BAY "L" = 9.85'
  - BAY "M" = 10.00'
  - BAY "N" = 10.00'



21101600 TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH	Area
103+05.00 TO 103+30.95	28.8 SQ YD
103+30.95 TO 104+29.70	43.9 SQ YD
104+29.70 TO 104+40.00	10.9 SQ YD
104+40.00 TO 104+54.08	11.3 SQ YD

72000100 SIGN PANEL - TYPE 1	Area
92+93.35, 27.47' LT	(R7-8) 3.0 SQ FT
92+93.35, 27.47' LT	(R7-101) 1.0 SQ FT
93+21.15, 27.59' LT	(R7-8) 3.0 SQ FT
93+21.15, 27.59' LT	(R7-101) 1.0 SQ FT
93+48.97, 27.71' LT	(R7-8) 1.5 SQ FT
93+48.97, 27.71' LT	(R7-101) 0.5 SQ FT

X7280105 TELESCOPING STEEL SIGN SUPPORT (SPECIAL)	Area
92+93.35, 27.47' LT	12 FOOT
93+21.15, 27.59' LT	12 FOOT
93+48.97, 27.71' LT	12 FOOT

USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - S.D.K.	REVISED -
PLOT DATE = 2/26/2019	CHECKED - R.H.D.	REVISED -
	DATE - 11/17/17	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED PARKING LOT PLAN  
WILLIAM STRATTON STATE PARK

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	11
ILLINOIS FED. AID PROJECT				

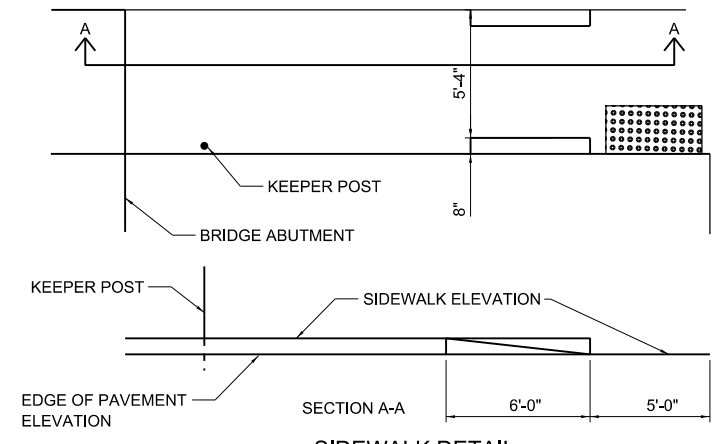
MODEL: D:\civil\SS\CAD Drawings\CAD Drawings\250250\_141\_250\_141\_1\_William Stratton Construction Drawings\250250\_141\_250\_141\_1.dwg, 030 proposed plan.dwg  
FILE NAME: SS\CAD Drawings\CAD Drawings\250250\_141\_250\_141\_1\_William Stratton Construction Drawings\250250\_141\_250\_141\_1.dwg, 030 proposed plan.dwg

JOB NO. 250-141-0 VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

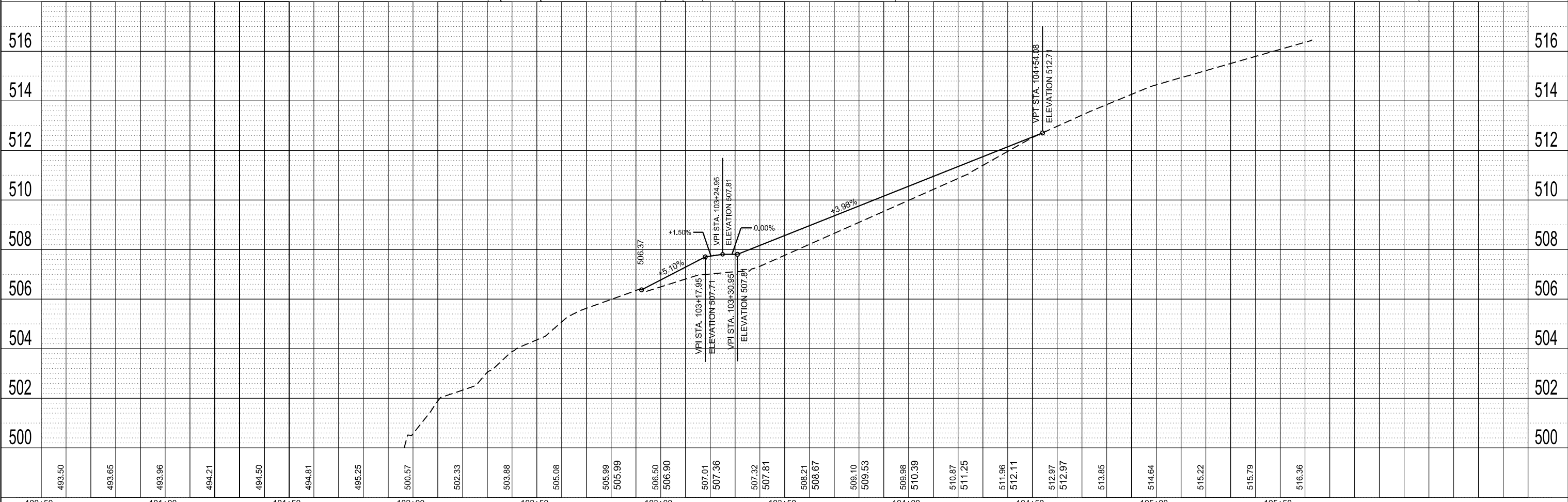
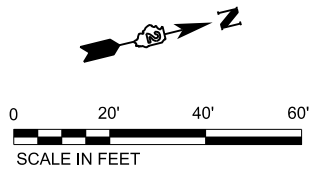
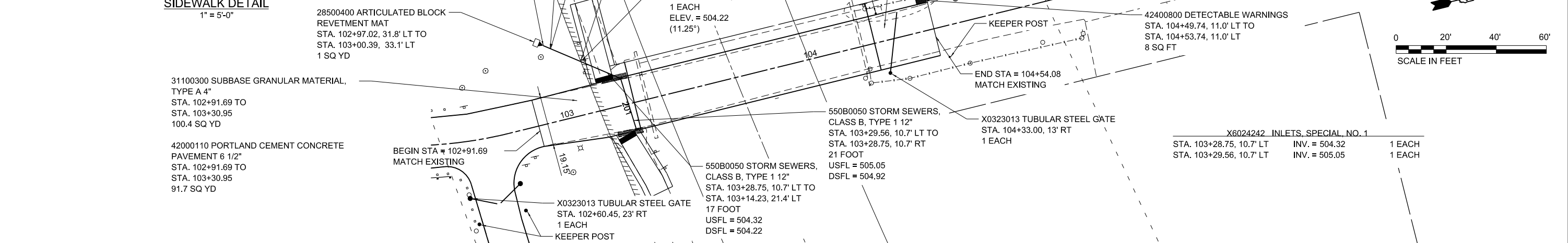
PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NOTE BOOK NO.	
	CADD FILE NAME	

MODEL: Default  
 FILE NAME: S:\CAD Drawings\CAD Drawings\CAD Drawings\2019\2019-14\2019-14-1-William Stratton Construction Drawings\046902-ash\010 plan-profile-price street.dgn



**SIDEWALK DETAIL**  
1" = 5'-0"



USER NAME =	Connor Bell	DESIGNED -	R.H.D.	REVISED -	
		DRAWN -	S.D.K.	REVISED -	
PLOT SCALE =	40,000' / in.	CHECKED -	R.H.D.	REVISED -	
PLOT DATE =	2/14/2019	DATE -	11/17/17	REVISED -	

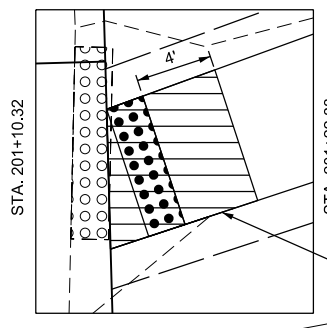
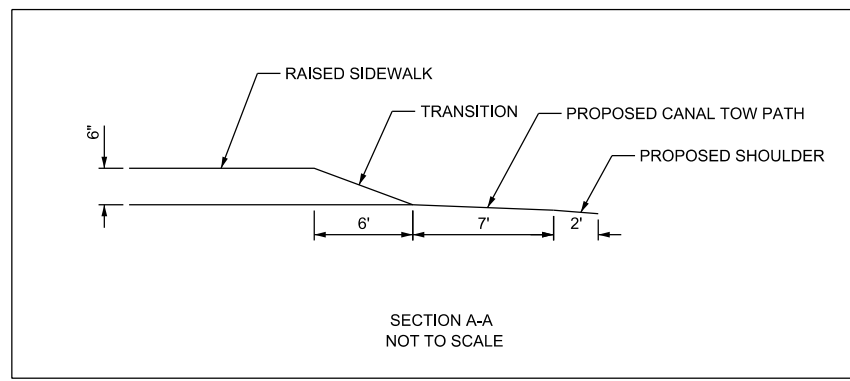
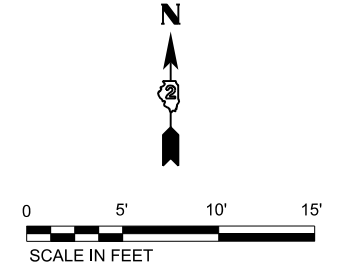
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PRICE STREET PLAN/PROFILE  
WILLIAM STRATTON STATE PARK

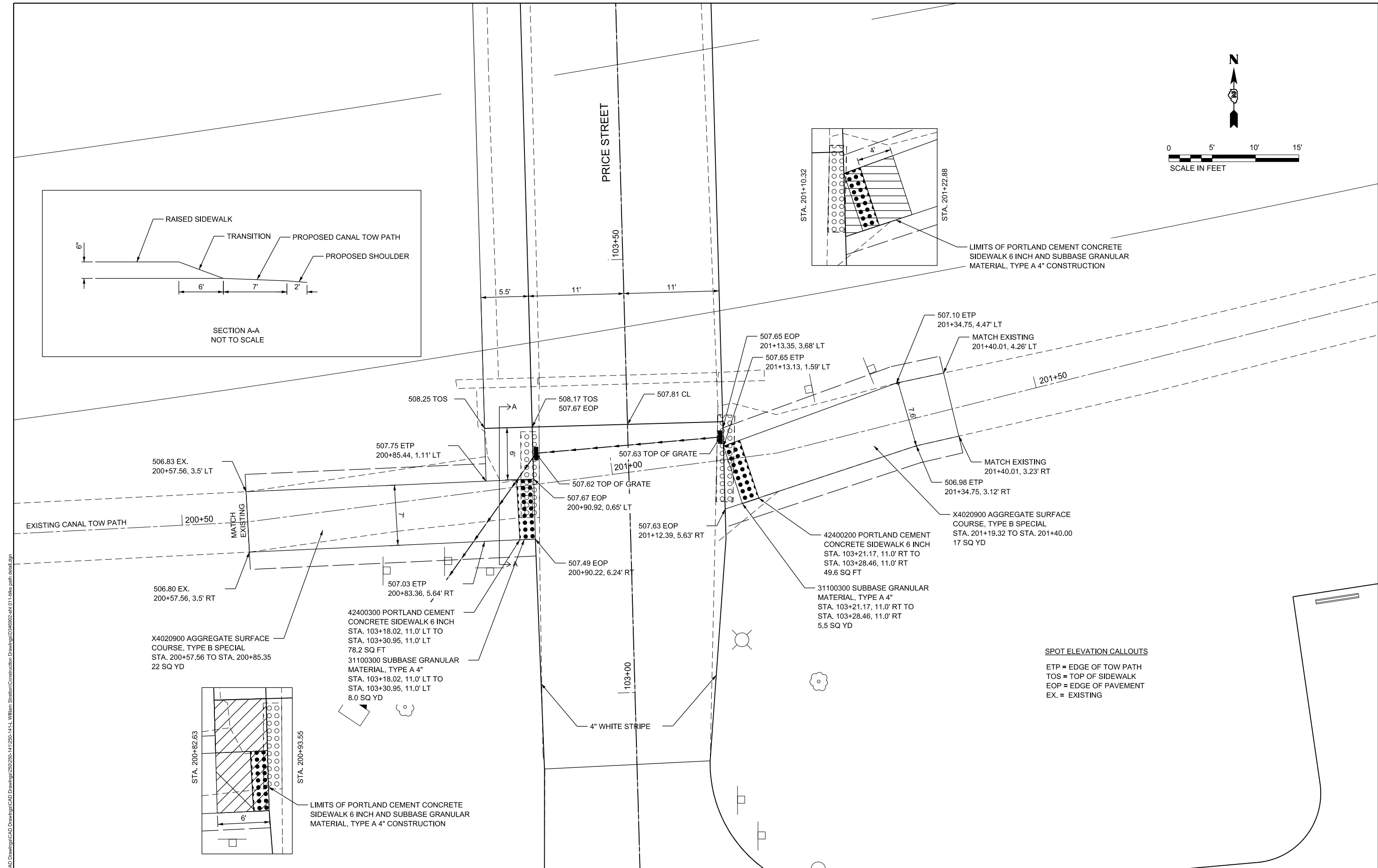
SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 46902	

JOB NO. 250-141-0 VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



LIMITS OF PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH AND SUBBASE GRANULAR MATERIAL, TYPE A 4\"/>



**SPOT ELEVATION CALLOUTS**  
 ETP = EDGE OF TOW PATH  
 TOS = TOP OF SIDEWALK  
 EOP = EDGE OF PAVEMENT  
 EX. = EXISTING

MODEL: D:\proj\111111\CAD Drawings\CAD Drawings\250250-141-0250-141-1, William Stratton\Construction Drawings\250250-141-0250-141-1\skid path detail.dgn  
 FILE NAME: S:\CAD Drawings\CAD Drawings\250250-141-0250-141-1, William Stratton\Construction Drawings\250250-141-0250-141-1\skid path detail.dgn

USER NAME = Connor Bell	DESIGNED - R.H.S.	REVISED -
	DRAWN - C.A.B.	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 2/14/2019	DATE - 11/17/17	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIDEWALK GRADING DETAIL  
 WILLIAM STRATTON STATE PARK**

SCALE: 1"=5'      SHEET      OF      SHEETS      STA.      TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	13
			CONTRACT NO. 46902	
		ILLINOIS FED. AID PROJECT		

JOB NO. 250-141-0 VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

POT Sta 89+00.00

MODEL: D:\p\11 S:\CAD Drawings\CAD Drawings\250\250-141\250-141-11 William Stratton\Construction Drawings\250\250-141-11 William Stratton\Construction Drawings\250\250-141-11 parking lot details.dwg

- 42000110 PORTLAND CEMENT CONCRETE PAVEMENT 6 1/2"  
STA. 90+00.07, 24.37' RT TO  
STA. 91+25.29, 0.84' LT  
1031 SQ YD
- LIMITS OF CONCRETE PAVING
- 31100300 SUBBASE GRANULAR MATERIAL, TYPE A 4"  
STA. 90+00.07, 24.37' RT TO  
STA. 91+25.29, 0.84' LT  
1069 SQ YD
- 31102000 SUBBASE GRANULAR MATERIAL, TYPE C  
STA. 90+00.07, 24.37' RT TO  
STA. 91+25.29, 0.84' LT  
255 CU YD

78001110 PAINT PAVEMENT MARKING - 4"  
CROSS LINE SPACING = 5'  
(SEE SHEET 11 FOR QUANTITIES)

492.10 EOP  
91+09.60, 2.15' RT

491.39 EOP  
89+87.75, 24.37' RT

491.25

490.26 EOP

489.65 EOP

490.34 EOP  
91+23.78, 78.47' RT

489.87 EOP  
90+00.07, 92.00' RT

89+99.40, 127.40' RT

60602800 CONCRETE GUTTER, TYPE B  
STA. 90+30.10, 88.77' RT TO  
STA. 90+55.68, 89.8' RT  
25.9 FOOT

488.25 MATCH EXISTING

488.30

CONSTRUCT TOE WALL IN  
ACCORDANCE WITH STANDARD 606401-02

X7240600 REMOVE AND  
RE-ERECT EXISTING SIGN  
STA. 90+56.79, 92.65' RT  
(MOVE TO STA. 90+72.01, 92.33' RT)  
1 EACH

- 28200200 FILTER FABRIC  
STA. 89+87.75, 24.37' RT TO  
STA. 91+25.29, 0.84' LT  
STA. 89+99.40, 127.40' RT TO  
STA. 91+23.68, 113.86' RT  
2990 SQ YD
- 21001000 GEOTECHNICAL FABRIC  
FOR GROUND STABILIZATION  
STA. 89+87.75, 24.37' RT TO  
STA. 91+25.29, 0.84' LT  
89+99.40, 127.40' RT TO  
91+23.68, 113.86' RT  
1380 SQ YD

SEE SHEET 24 FOR PAVED DITCH  
DETAILS AND CROSS SECTIONS

SEE SHEET 21 FOR  
SECTIONS A-A AND B-B



USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
PLOT SCALE = 20,000' / in.	DRAWN - S.D.K.	REVISED -
PLOT DATE = 2/14/2019	CHECKED - R.H.D.	REVISED -
	DATE - 11/17/17	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

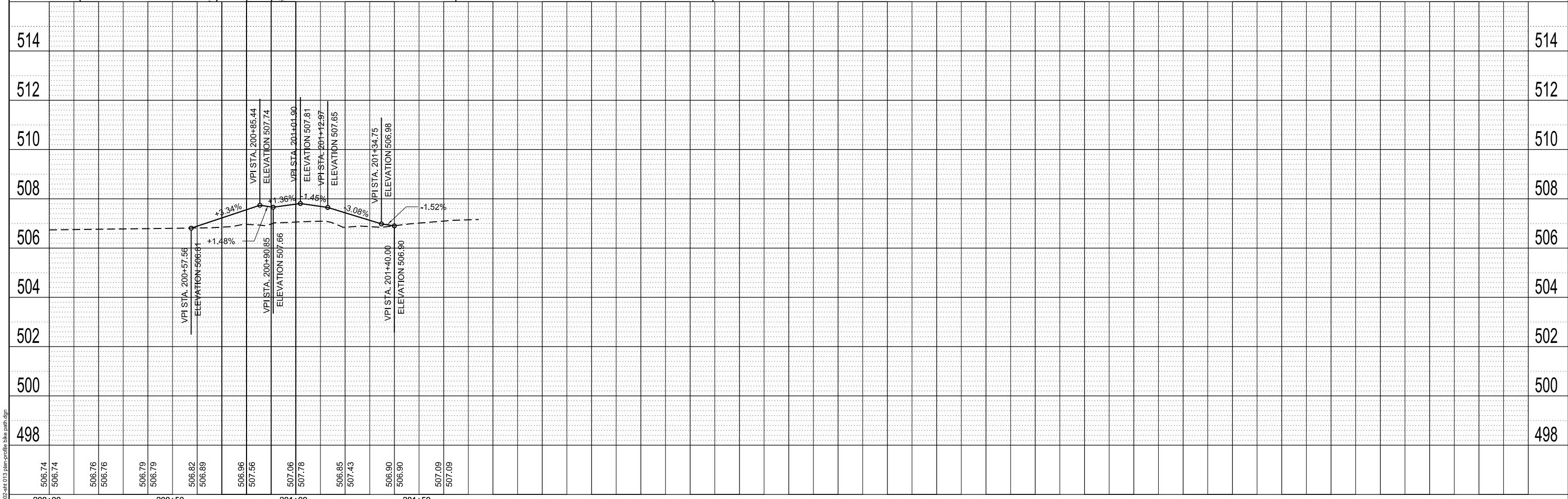
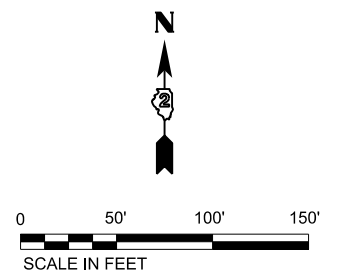
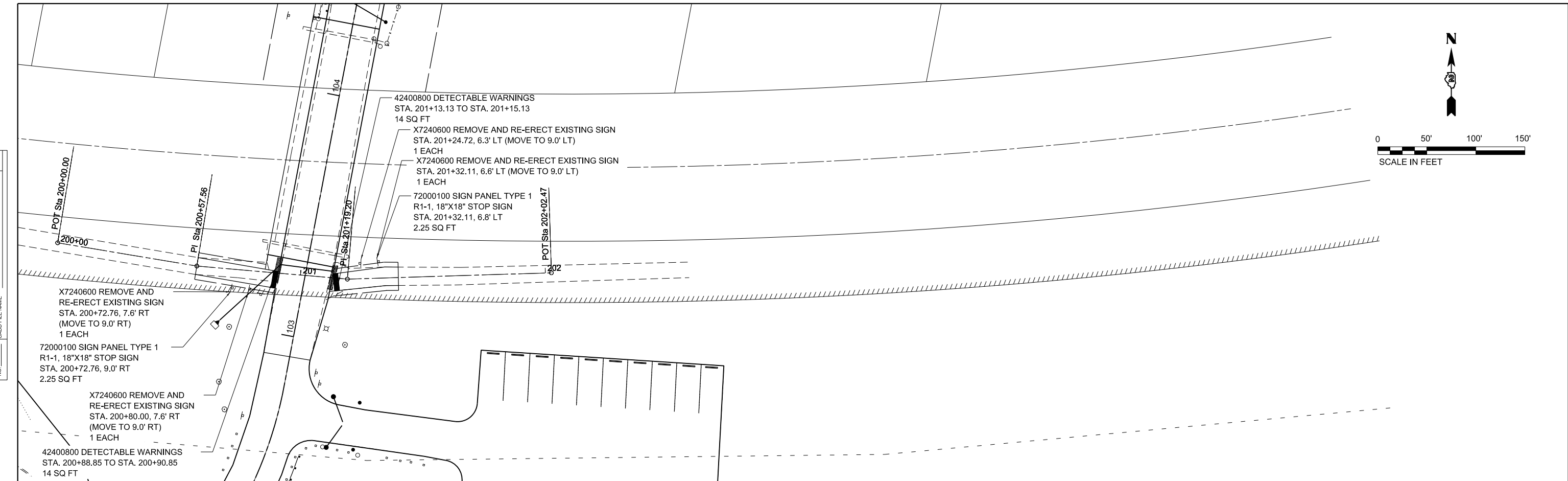
PARKING LOT DETAILS	
WILLIAM STRATTON STATE PARK	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	14
ILLINOIS FED. AID PROJECT				

CONTRACT NO. 46902

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	AS NOTED		
	FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHKD		
	NO.		



MODEL: Default  
FILE NAME: D:\46902-01\013 plan-profile-bike path.dgn

USER NAME	= Connor Bell
DESIGNED	- R.H.D.
DRAWN	- S.D.K.
PLOT SCALE	= 40,000' / in.
PLOT DATE	= 2/14/2019
CHECKED	- R.H.D.
DATE	- 11/17/17
REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CANAL TOW PATH PLAN/PROFILE  
WILLIAM STRATTON STATE PARK

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	15
CONTRACT NO. 46902				
ILLINOIS FED. AID PROJECT				

JOB NO. 250-141-0 VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



MODEL: D:\shel... S:\CAD Drawings\CAD Drawings\Construction Drawings\0346902-eh1 014 traffic control.dgn  
 FILE NAME: S:\CAD Drawings\CAD Drawings\Construction Drawings\0346902-eh1 014 traffic control.dgn

USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
	DRAWN - S.D.K.	REVISED -
PLOT SCALE = 40,000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 2/14/2019	DATE - 11/17/17	REVISED -

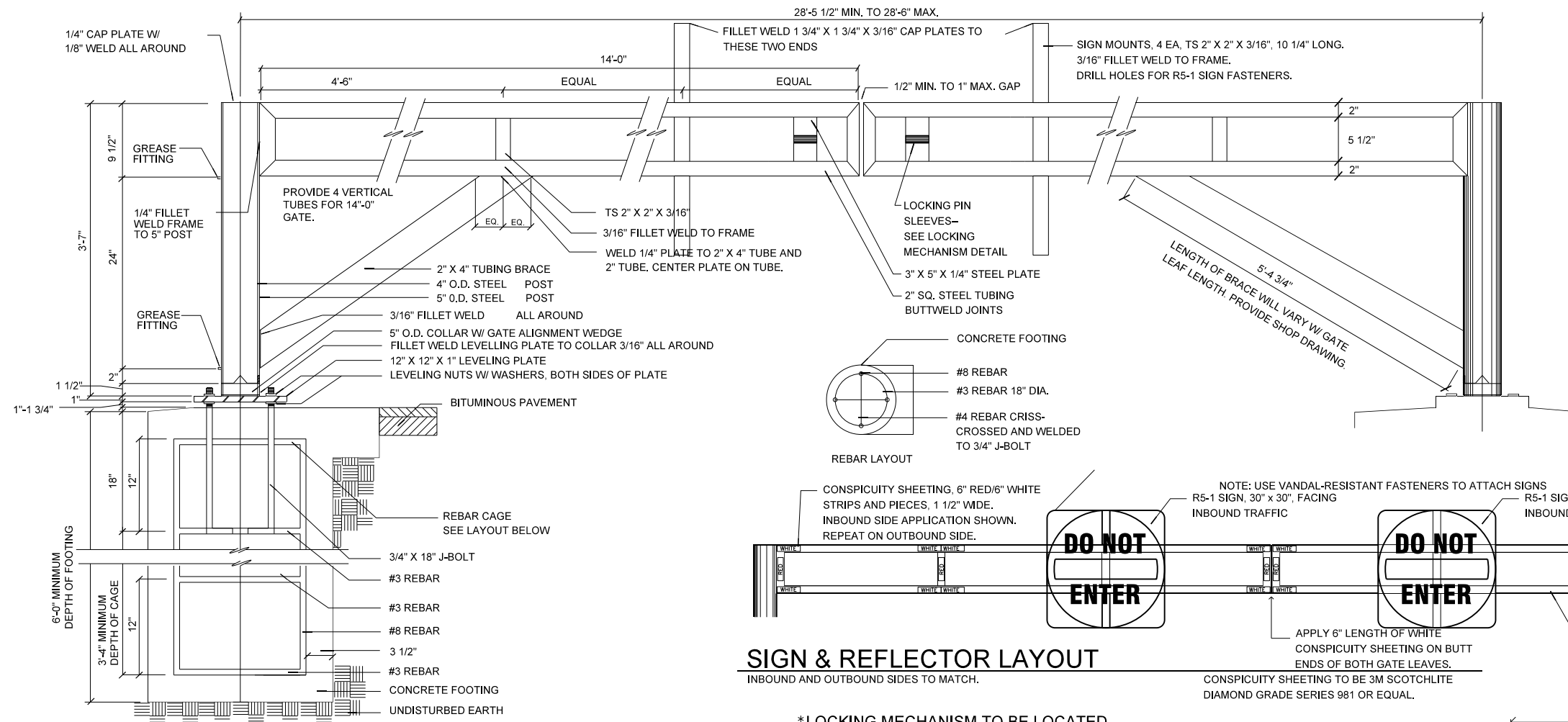
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL  
WILLIAM STRATTON STATE PARK

SCALE: SHEET OF SHEETS STA. TO STA.

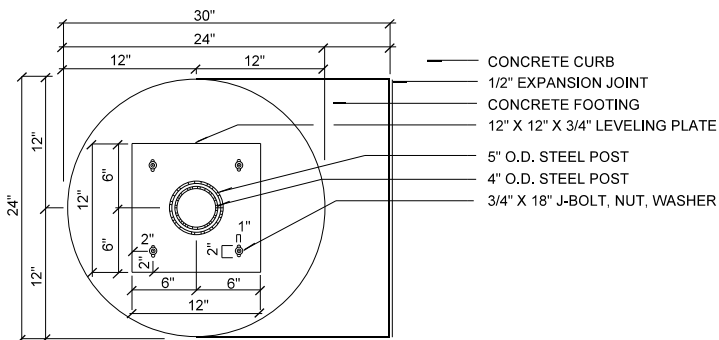
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	16
CONTRACT NO. 46902				
		ILLINOIS	FED. AID PROJECT	





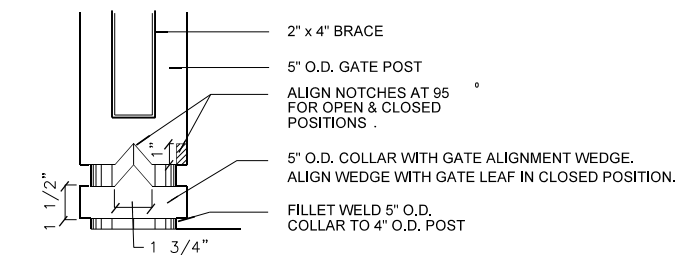
**SWING GATE--HINGE POST SIDE - DOUBLE LEAF**

STA. 89+79.20, 165.1' LT  
STA. 102+60.45, 23.0' RT



**FOOTING PLAN**

PLAN

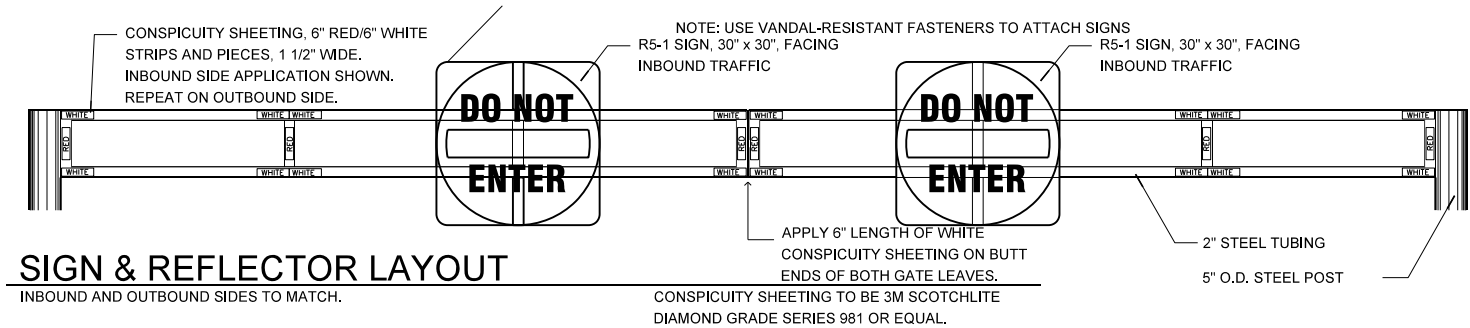


**POST, SLEEVE & COLLAR**

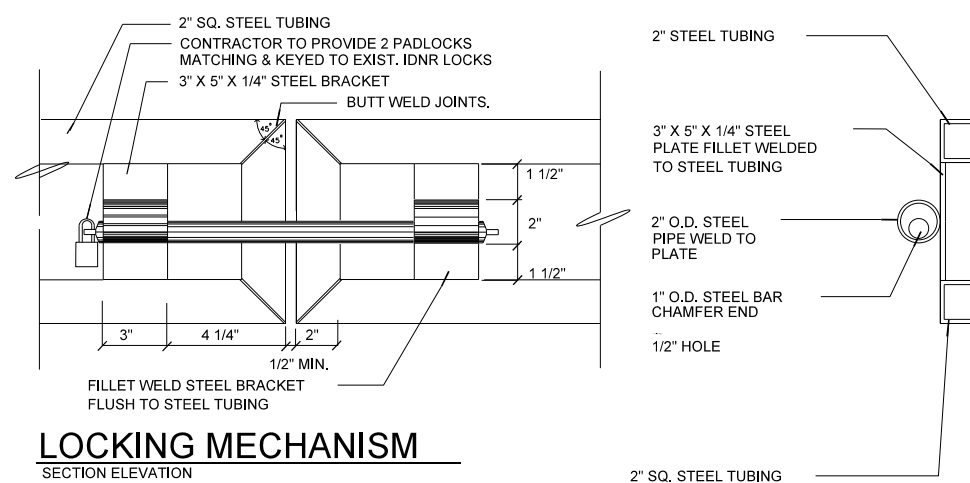
ELEVATION

**SIGN & REFLECTOR LAYOUT**

INBOUND AND OUTBOUND SIDES TO MATCH.

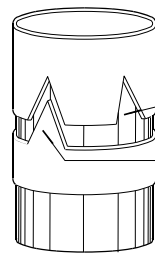


\*LOCKING MECHANISM TO BE LOCATED ON THE FRONT SIDE OF SWING GATE

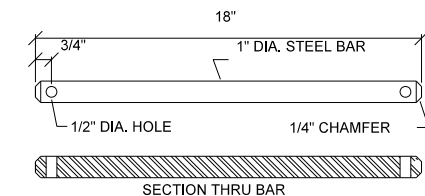


**LOCKING MECHANISM**

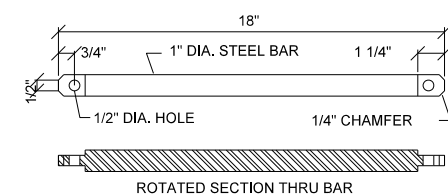
SECTION ELEVATION



**ISOMETRIC**



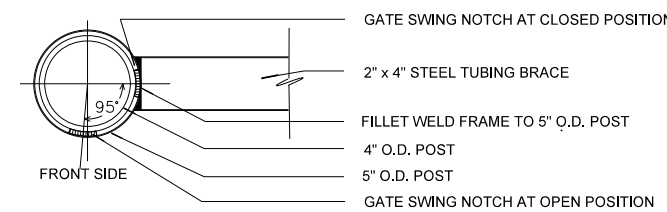
**TYPE A LOCKING PIN**



**TYPE B LOCKING PIN**

**LOCKING PIN**

PROVIDE 2 EA OF 1 TYPE AS SPECIFIED



**HINGE POST**

SECTION

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

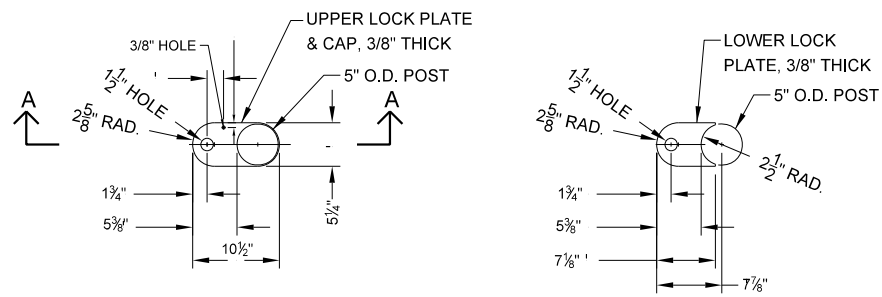
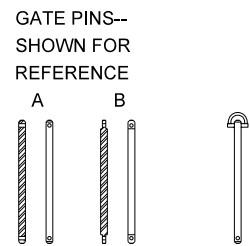
SIGN AND GATE DETAILS  
WILLIAM STRATTON STATE PARK

USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
	DRAWN - S.D.K.	REVISED -
PLOT SCALE = 40,000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 2/26/2019	DATE - 11/30/17	REVISED -

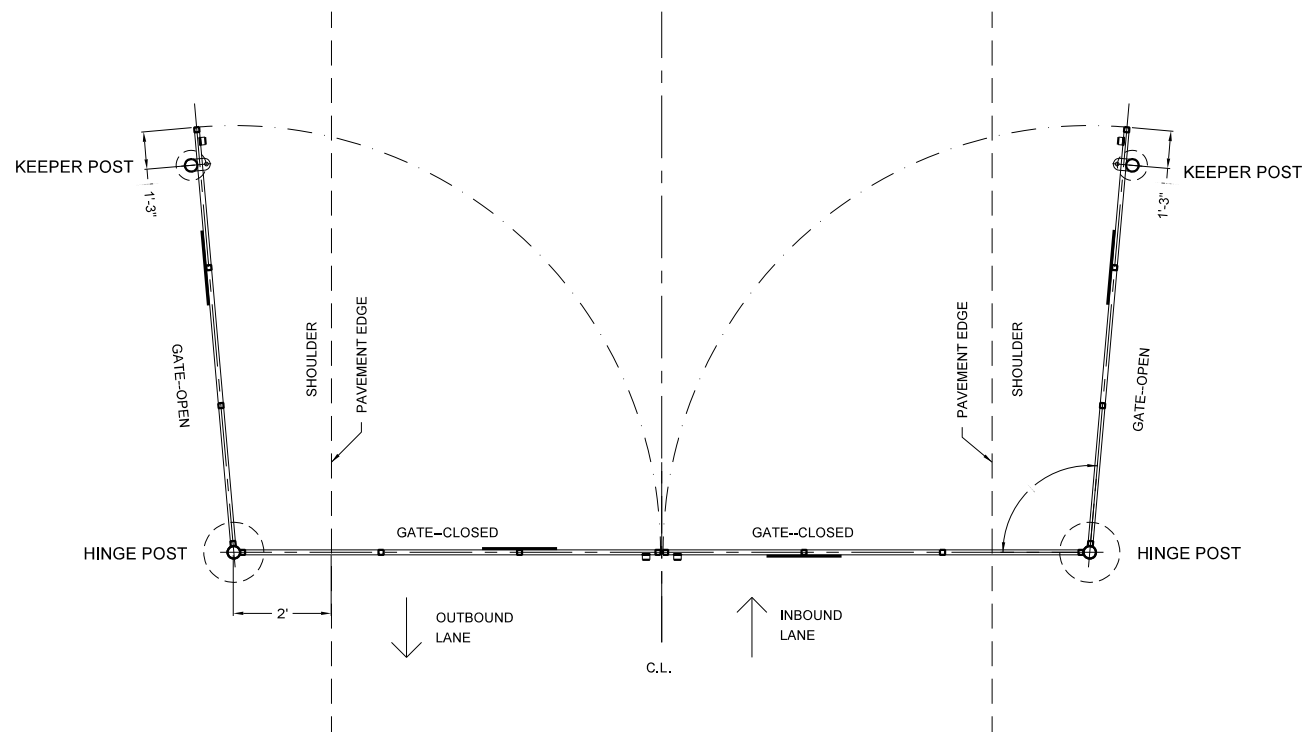
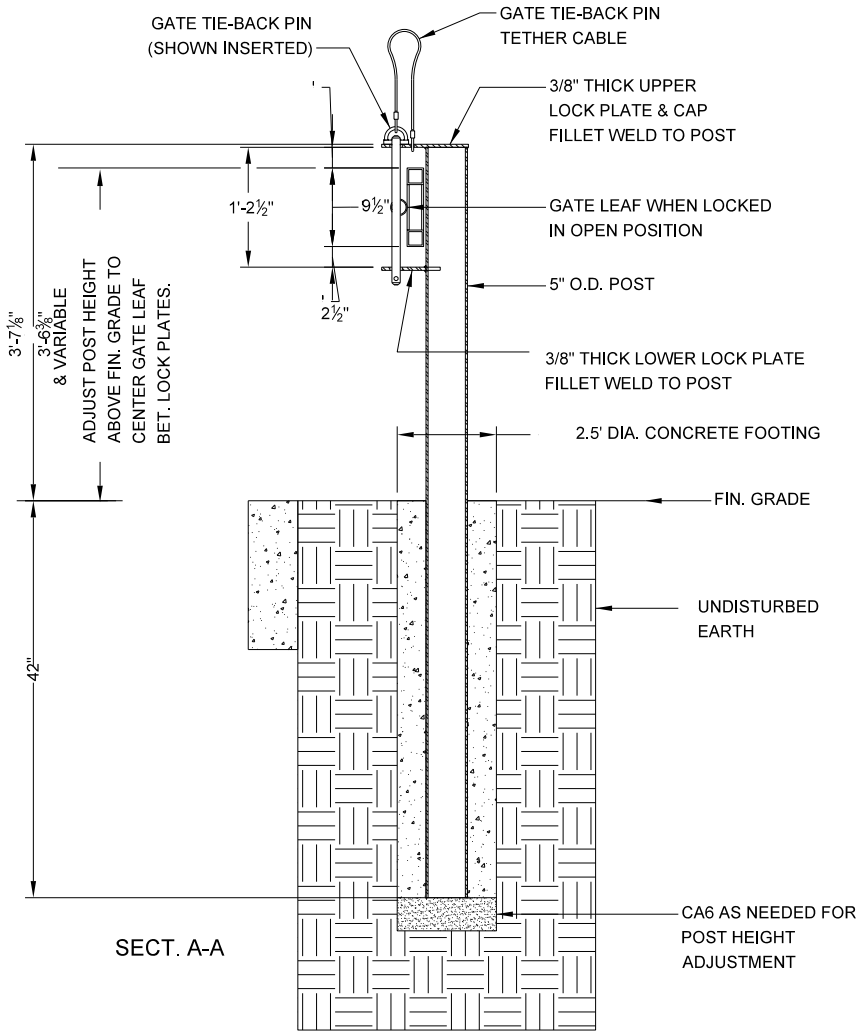
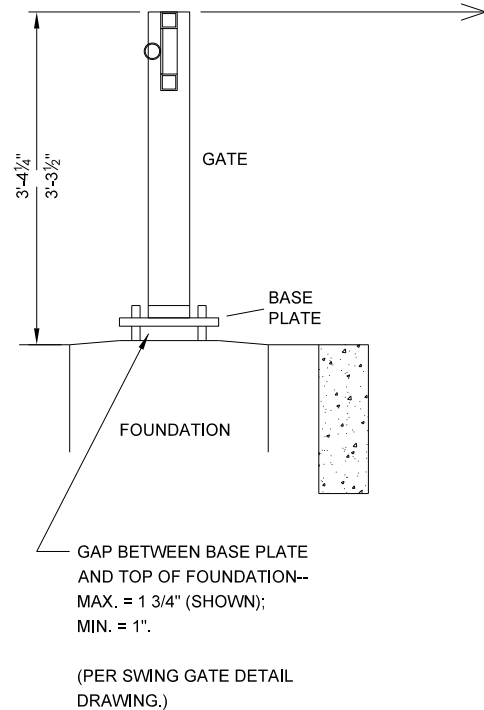
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	17
			CONTRACT NO. 46902	
		ILLINOIS	FED. AID PROJECT	

MODEL: D:\shill S:\CAD Drawings\CAD Drawings\2501250-141\250-141-1 William Stratton\Construction Drawings\2501250-141\250-141.dwg



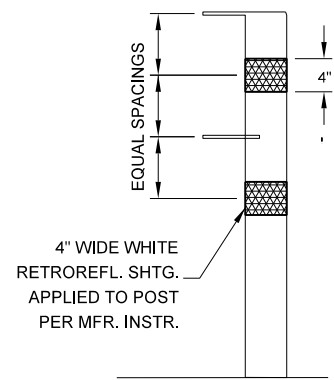
SWING GATE ASSEMBLY--  
SHOWN FOR REFERENCE



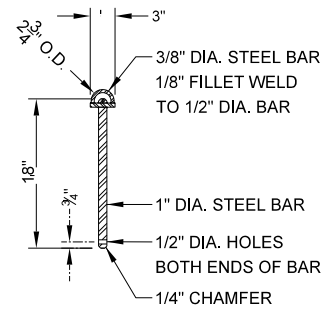
TYPICAL SWING GATE  
TIE-BACK POST  
SITE PLAN

STA. 89+79.20, 165.1' LT  
STA. 102+60.45, 23.0' RT

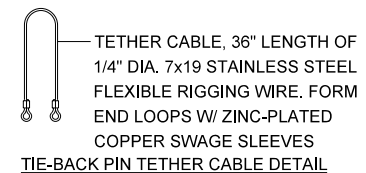
GATE TIE-BACK POST DETAILS



RETROREFLECTIVE  
SHEETING DETAIL



GATE TIE-BACK PIN DETAIL



TIE-BACK PIN TETHER CABLE DETAIL

MODEL: D:\sh\ S:\CAD Drawings\CAD Drawings\250\250-141\250-141-1 William Stratton Construction Drawings\0346902.dwg 015/019 Details.dgn

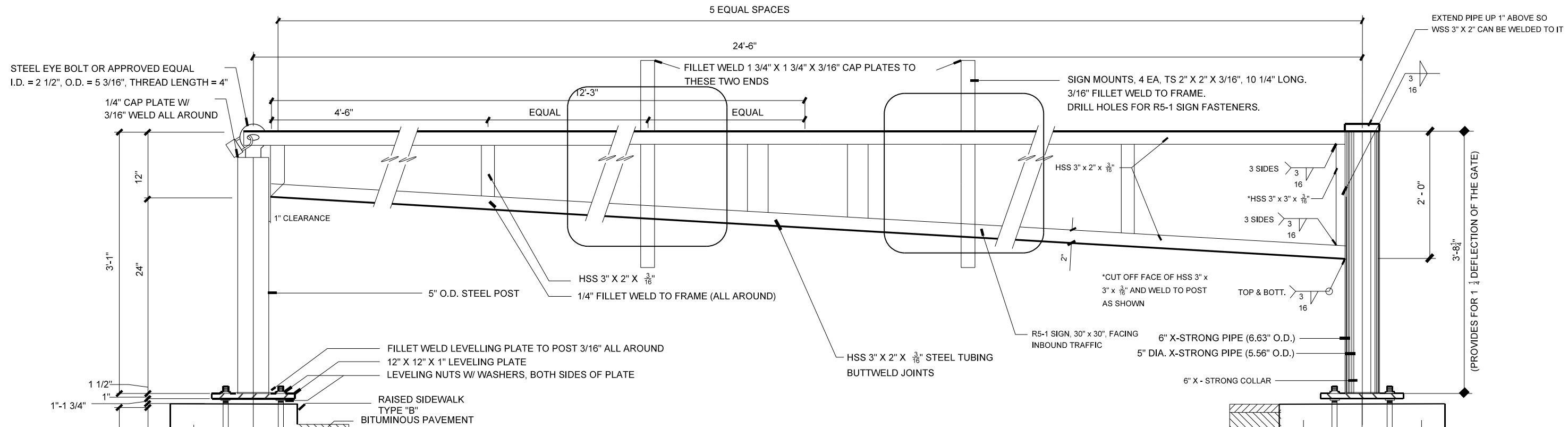
USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
DRAWN - S.D.K.	REVISED -	
PLOT SCALE = 40,000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 2/26/2019	DATE - 11/30/17	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGN AND GATE DETAILS  
WILLIAM STRATTON STATE PARK

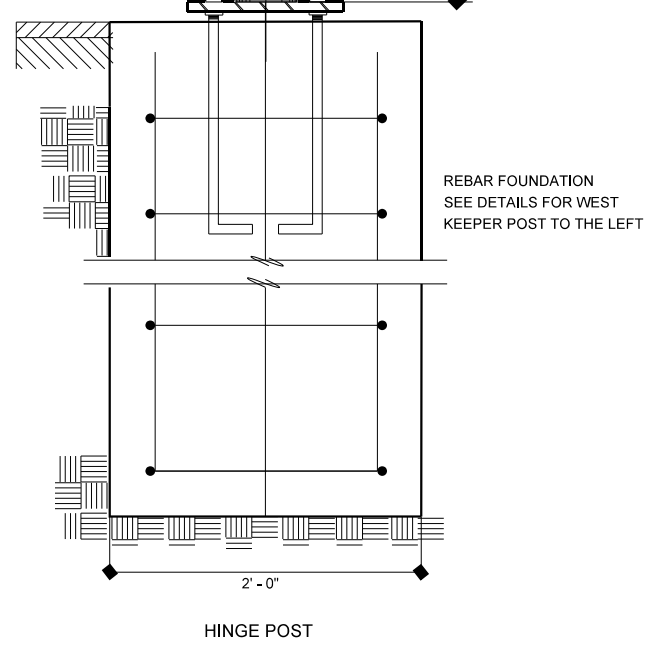
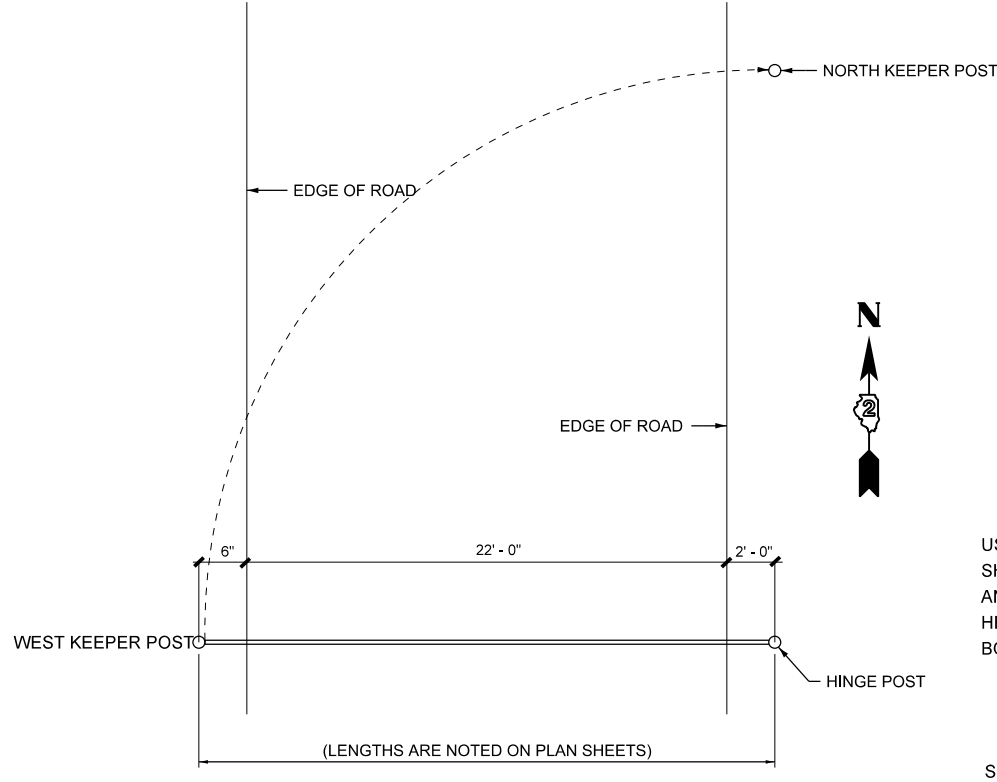
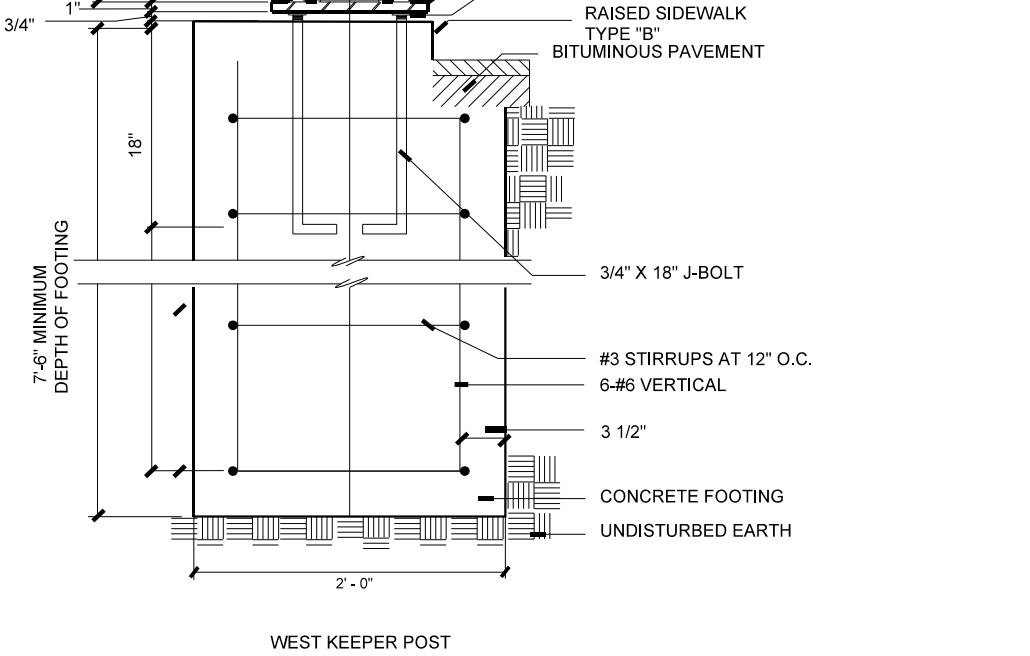
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	18
CONTRACT NO. 46902				
ILLINOIS FED. AID PROJECT				



**SWING GATE--FRONT SIDE - SINGLE LEAF**

STA. 104+33.00, 13.0' RT



**NORTH KEEPER POST**  
 USE A 5" O.D. STEEL POST, 7 FT. LONG, WITH STEEL EYE BOLT SHOWN ON THIS SHEET. USE THE CONCRETE FOOTING CONFIGURATION AND RETROREFLECTIVE SHEETING SHOWN ON SHEET 18. ADJUST POST HEIGHT ABOVE FINAL GRADE TO ASSURE APPROPRIATE HEIGHT OF EYE BOLT FOR LOCKING.

SEE SHEET 17 FOR SIGN AND REFLECTOR LAYOUT



R5-1 SIGN, 30" X 30" DETAIL

X0323013 TUBULAR STEEL GATE			
STA.	GATE LENGTH	GATE STYLE	
89+79.20, 165.1' LT	28'-5 1/2"-28'-6"	DOUBLE LEAF	
102+60.45, 23.0' RT	28'-5 1/2"-28'-6"	DOUBLE LEAF	
104+33.00, 13.0' RT	24'-6"	SINGLE LEAF	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SIGN AND GATE DETAILS  
 WILLIAM STRATTON STATE PARK

USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
	DRAWN - S.D.K.	REVISED -
PLOT SCALE = 40,000' / in.	CHECKED - R.H.D.	REVISED -
PLOT DATE = 2/26/2019	DATE - 11/30/17	REVISED -

SCALE: N.T.S.	SHEET OF SHEETS	STA. TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				STRATTON 2018	GRUNDY	42	19
							CONTRACT NO. 46902
							ILLINOIS FED. AID PROJECT

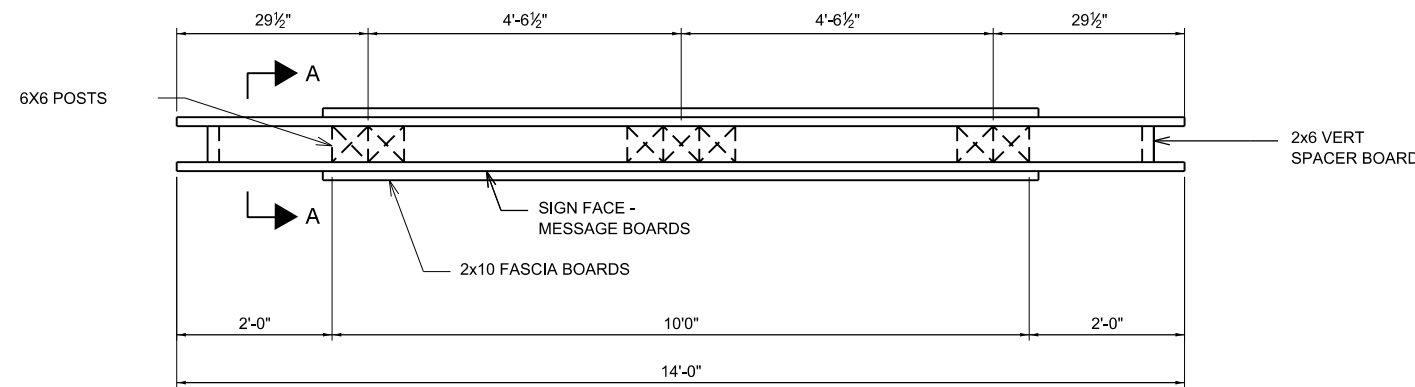
MODEL: D:\ehill S:\CAD Drawings\CAD Drawings\250250-141\250-141-1-William Stratton\Construction Drawings\0346902.dwg, 01/15/19, Details.dgn

**FIBERGLASS REINFORCED RECYCLED PLASTIC LUMBER MATERIALS LIST:  
ALL ITEMS TO BE BROWN IN COLOR**

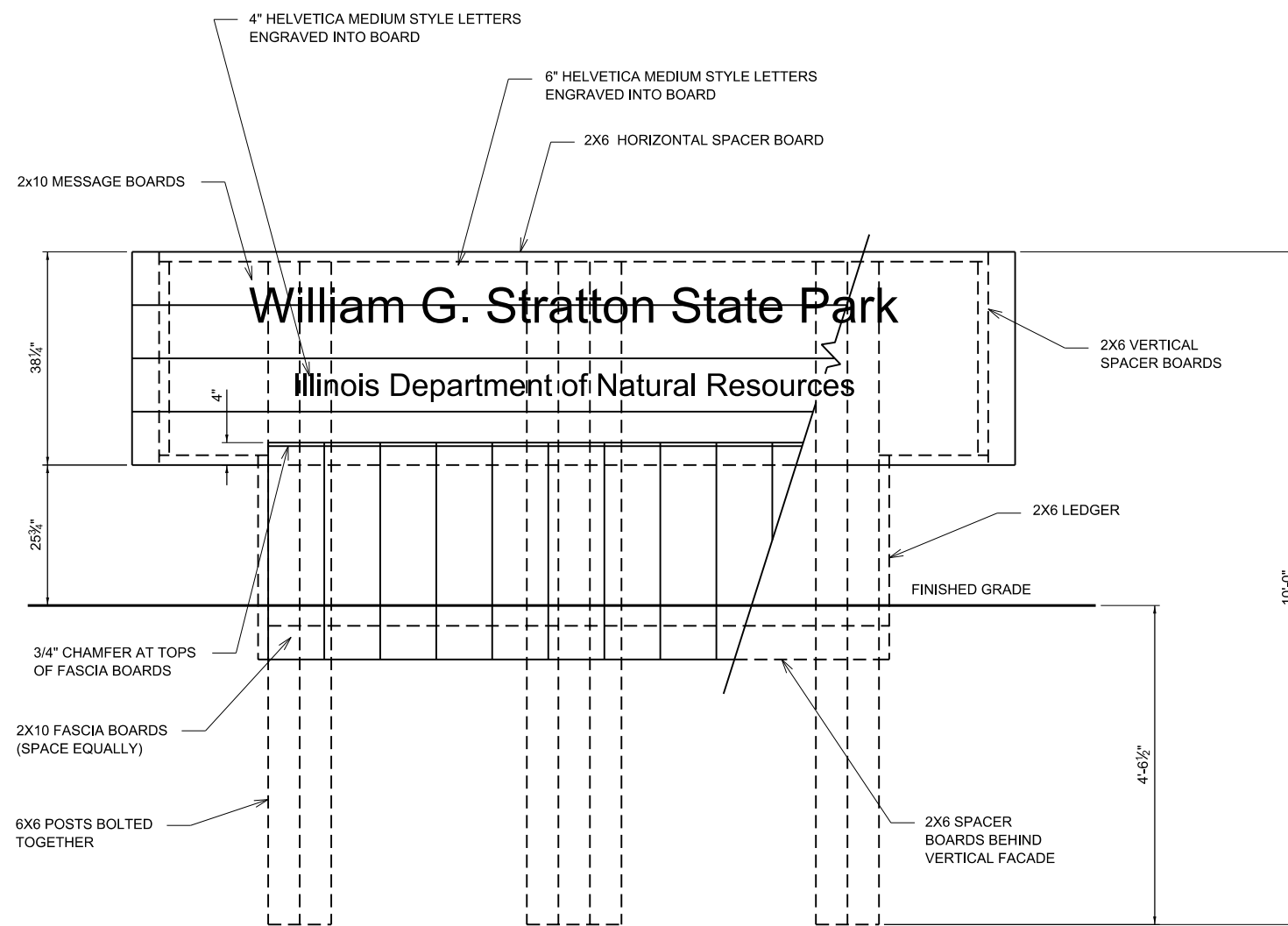
ITEM	LENGTH	QUAN.	REMARKS
6X6 POST	10'-0"	7 EA.	10'-0"
2X6 SPACER AND LEDGER BOARD	14'-0"	4 EA.	CUT VARIOUS LENGTHS TO FIT
2X10 MESSAGE BOARD	14'-0"	8 EA.	14'-0"
2X10 BOTTOM FASCIA BOARDS	3'-4"	28 EA.	SEE DETAIL VIEW - CHAMFER TOP OF BOARD

**GENERAL NOTES:**

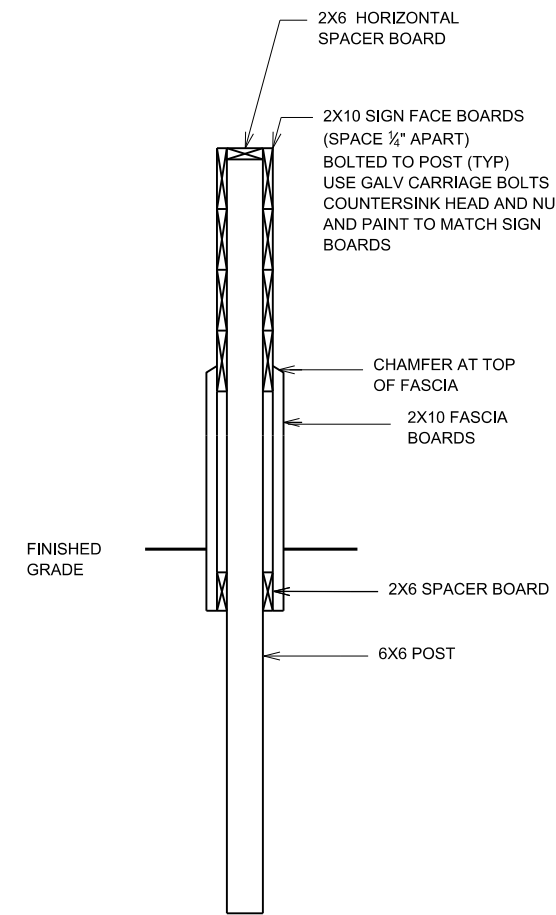
1. ALL LUMBER IS FIBERGLASS REINFORCED RECYCLED PLASTIC, BROWN IN COLOR WITH A WHITE CORE. SUBMIT SAMPLES TO IDNR LANDSCAPE ARCHITECT FOR COLOR SELECTION PRIOR TO FABRICATION.
2. ALL LETTERING IS TO BE HELVETICA MEDIUM WUPPER AND LOWER CASE LETTERS. LETTERS ARE TO BE ENGRAVED WITH A COMPUTER OR TEMPLATE DRIVER ROUTER SYSTEM.



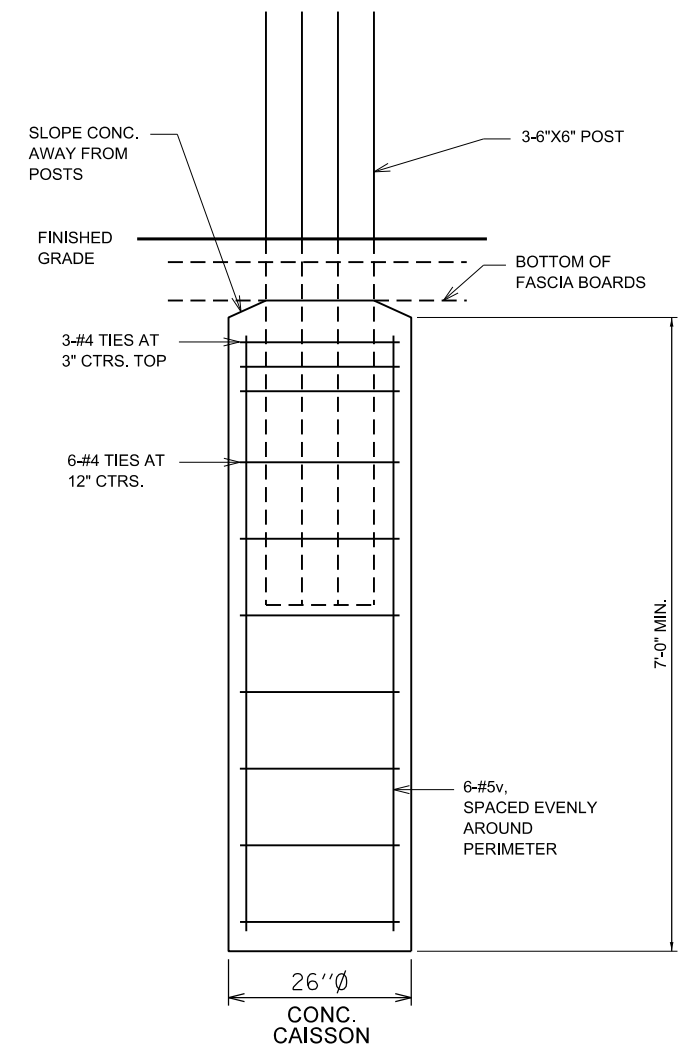
**TOP VIEW**



**FRONT VIEW (LETTERING IS REPEATED ON OPPOSITE SIDE)**



**SECTION A-A**



**SECTION THRU FOUNDATION**

$f_c = 4,000$  PSI  
 $F_y = 60,000$  PSI (REINF.)

MODEL: D:\p\h\l S:\CAD Drawings\CAD Drawings\250\250-141-250-141-1-William Stratton\Construction Drawings\250\250-141-250-141-1-Details.dgn

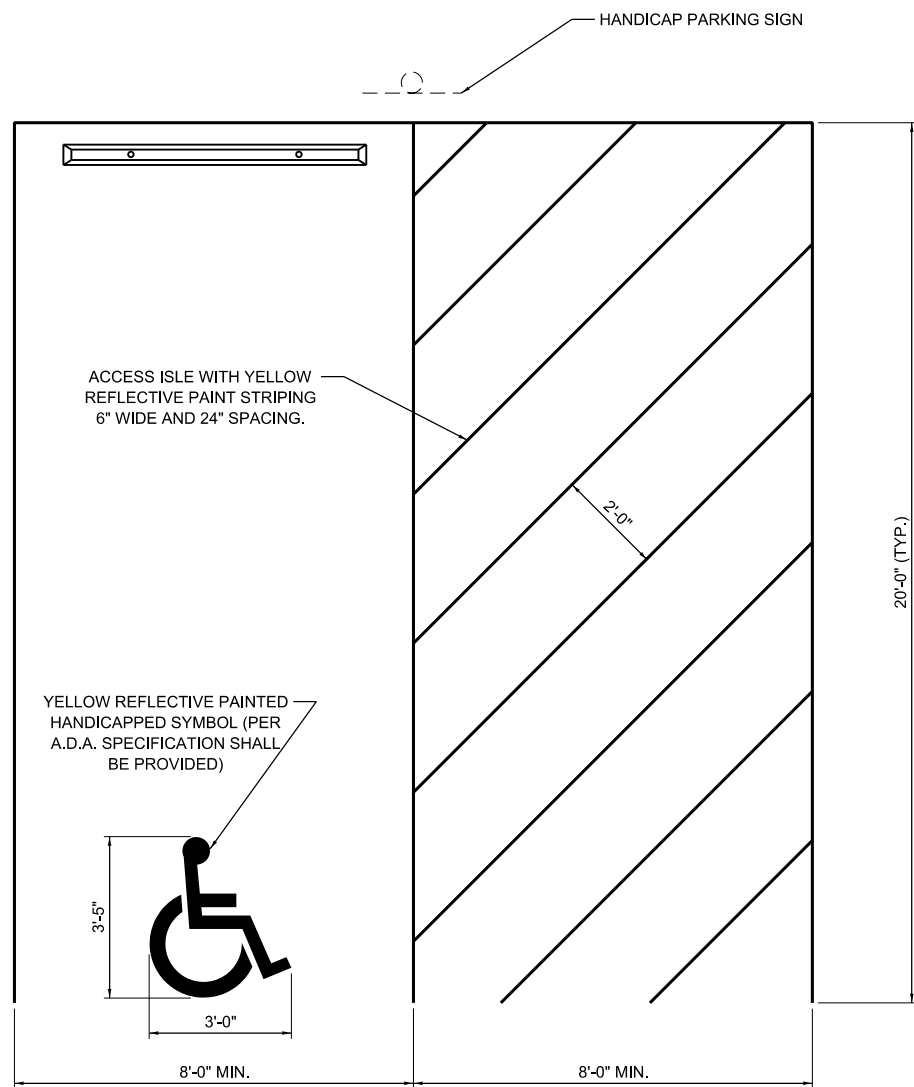
JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - S.D.K.	REVISED -
PLOT DATE = 2/14/2019	CHECKED - R.H.D.	REVISED -
	DATE - 11/30/17	REVISED -

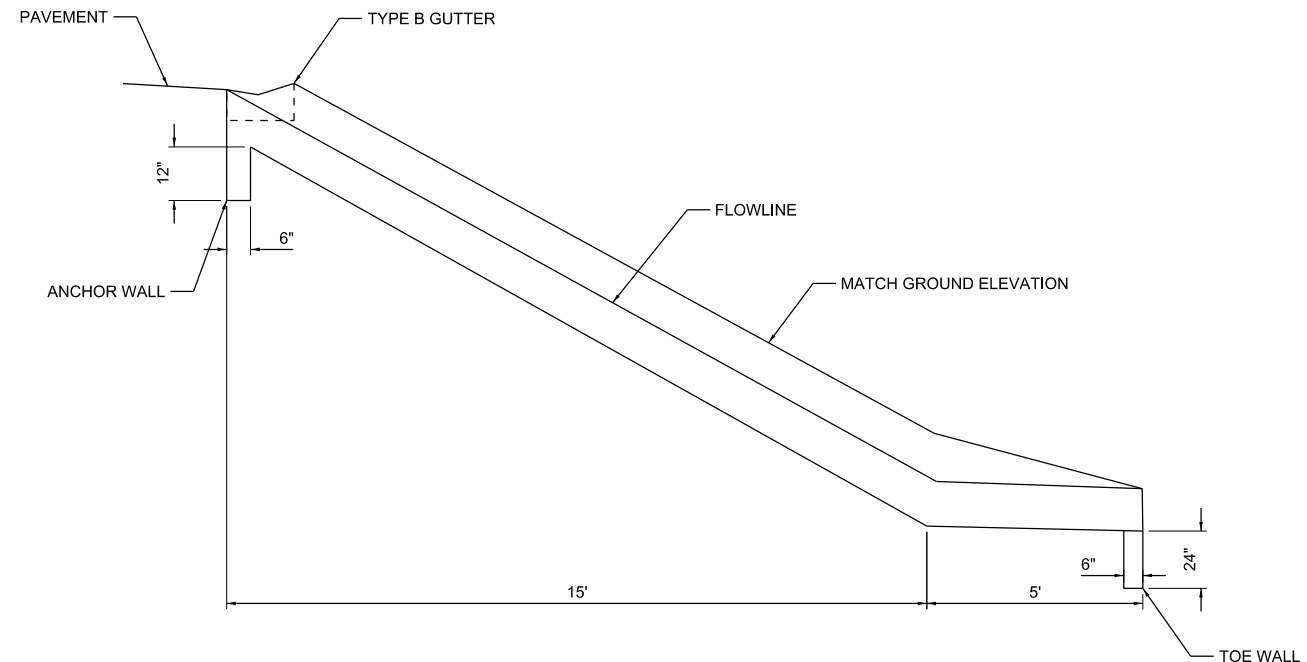
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ENTRANCE SIGN DETAILS WILLIAM STRATTON STATE PARK			
SCALE: N.T.S.	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	20
CONTRACT NO. 46902				
ILLINOIS FED. AID PROJECT				



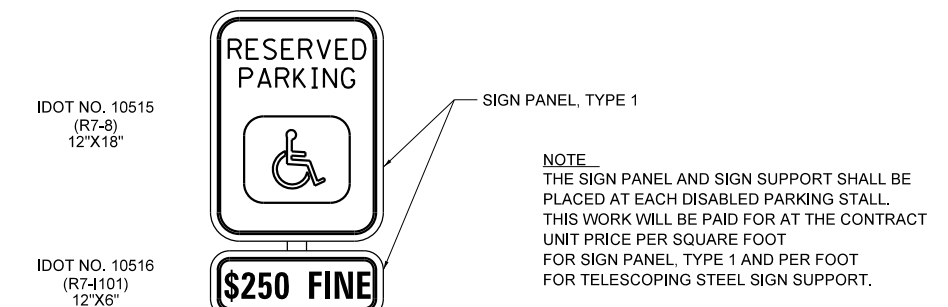
**HANDICAP PARKING SPACE DETAIL**



PAVED DITCH CROSS SECTION  
STA. 90+56.46, 90.48' RT  
SECTION B-B  
NOT TO SCALE

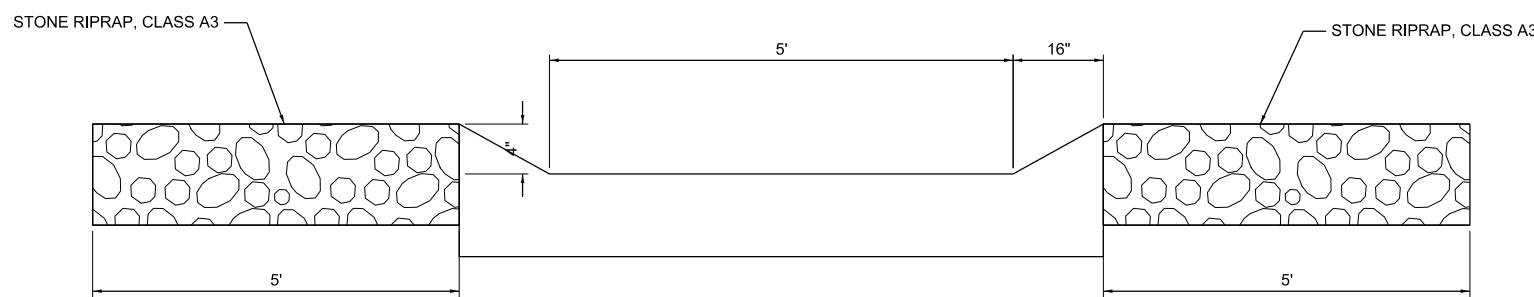
# RESERVED PARKING SIGN DETAIL

NOTE  
WHERE NOTED IN THE PLANS, A PIPE BOLLARD SHALL BE INSTALLED TO PROTECT THE SIGN SUPPORT.



QUANTITIES  
12 FT OF SIGN SUPPORT AND  
2 SQ. FT. OF SIGN PANEL IS  
REQUIRED AT EACH LOCATION.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



PAVED DITCH CROSS SECTION  
STA. 90+56.46, 90.48' RT  
SECTION A-A  
NOT TO SCALE

SEE SHEETS 8, 11, AND 14  
FOR RIPRAP LOCATION, SIZE,  
DEPTH, AND FABRIC DETAILS

MODEL: D:\p\h\l S:\CAD Drawings\CAD Drawings\250\250-141\250-141-11-William Stratton\Construction Drawings\250\250-141-11-Details.dgn

USER NAME = Connor Bell	DESIGNED - R.H.D.	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - S.D.K.	REVISED -
PLOT DATE = 2/14/2019	CHECKED - R.H.D.	REVISED -
	DATE - 11/30/17	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HANDICAP SPACE, SIGN, AND PAVED DITCH DETAILS  
WILLIAM STRATTON STATE PARK

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

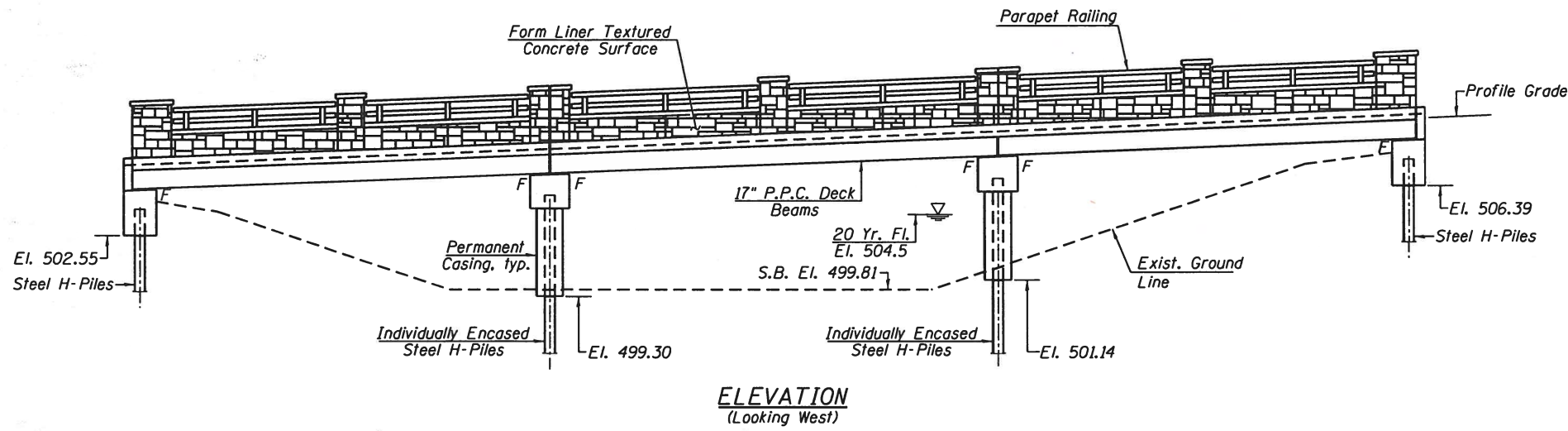
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	21
CONTRACT NO. 46902				
ILLINOIS FED. AID PROJECT				

Benchmark "A": Mag nail in curb of landscape island located in middle of parking lot. Elev. 495.57

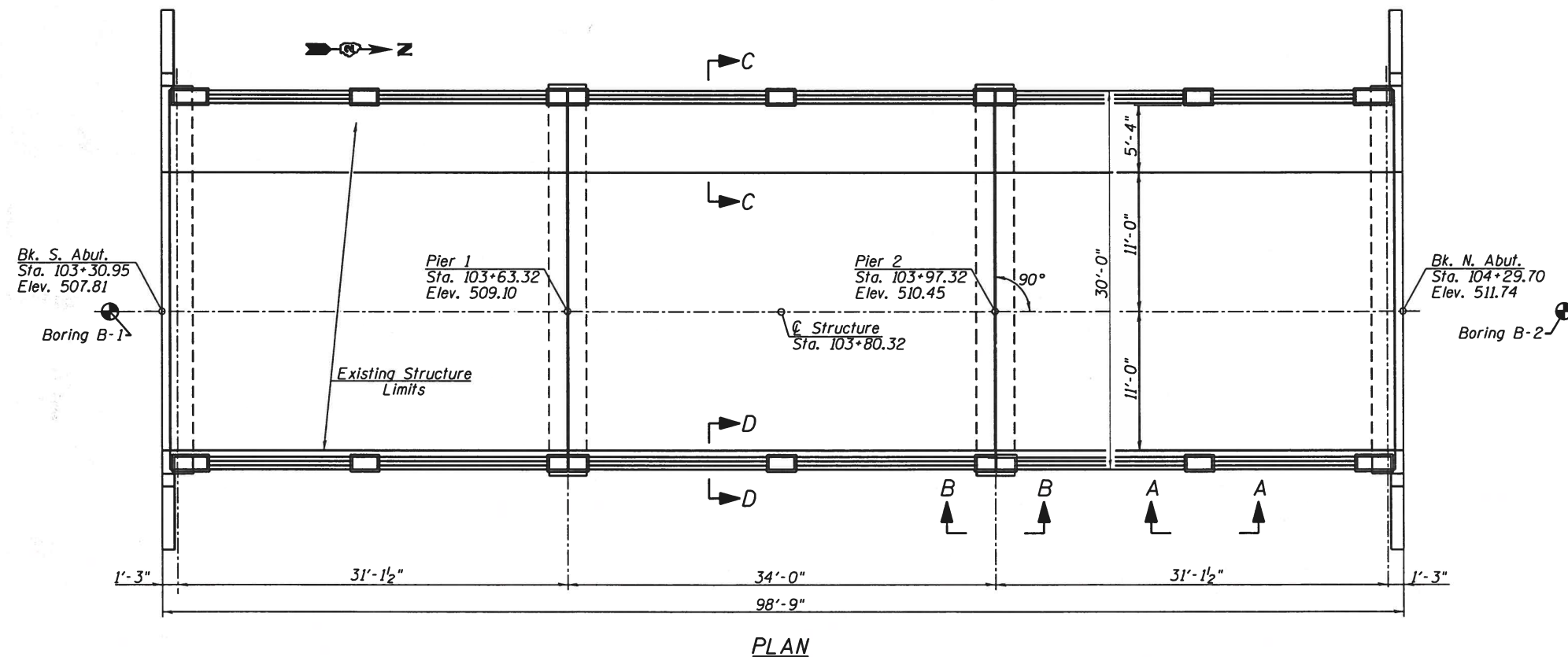
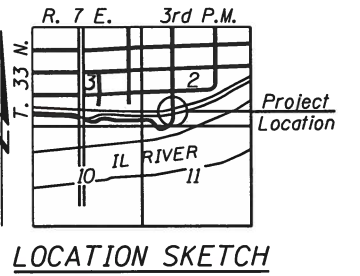
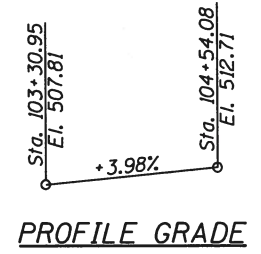
Existing Structure: S.N. 032-7004. Built in 1965 at Station 13+14.36.  
 Structure consists of three span steel I-beam bridge with timber deck and timber sidewalk on West side. The bridge is supported by spill-thru abutments with concrete cap and timber piles, and pile bent piers with concrete cap and timber piles. 89'-8 1/2" Bk.-Bk. Abutments, 26'-0" out-out deck. 0° skew.  
 Project to be built under road closure.

**INDEX OF SHEETS**

- 1 - General Plan & Elevation
- 2 - General Data
- 3 - Wearing Surface Elevations
- 4 - Superstructure
- 5 - Superstructure Details
- 6 - Concrete Bridge Railing
- 7 - Parapet Railing
- 8 - P.P.C. Deck Beam, Spans 1 & 3
- 9 - P.P.C. Deck Beam Details, Spans 1 & 3
- 10 - P.P.C. Deck Beam, Span 2
- 11 - P.P.C. Deck Beam Details, Span 2
- 12 - South Abutment
- 13 - North Abutment
- 14 - Pier 1
- 15 - Pier 2
- 16 - HP Pile Details
- 17-19 - Boring Logs



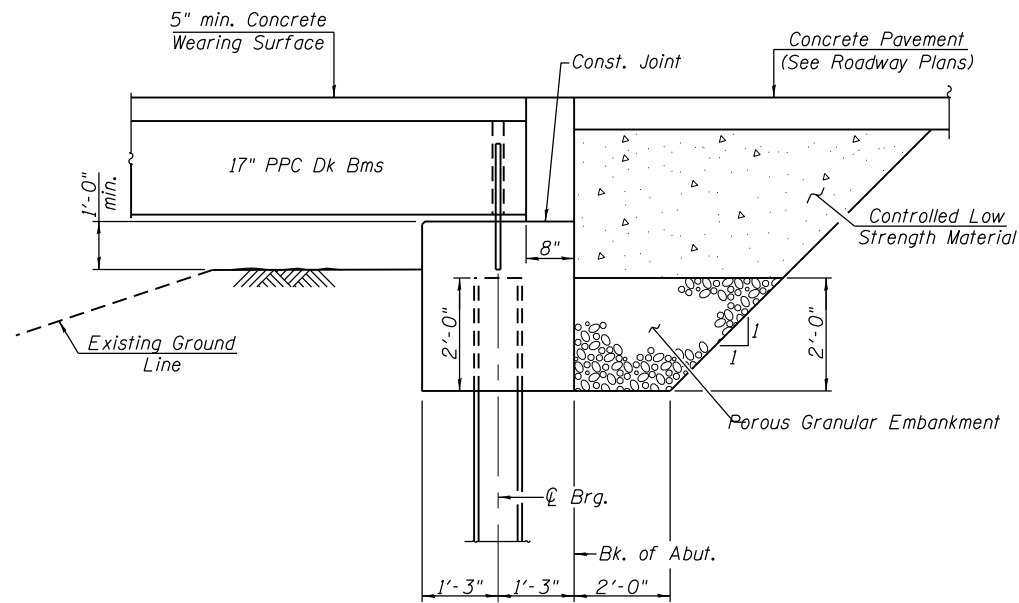
ILLINOIS MICHIGAN CANAL  
 BUILT 20 BY  
 STATE OF ILLINOIS  
 SECTION STRATTON 2018  
 STATION 103+80.32  
 STR. NO. 032-7099  
 LOADING HL-93  
**NAME PLATE**  
 See Std. 515001



*Mark A. Henderson* 2/14/19  
 Expiration 11/30/2020

**GENERAL PLAN & ELEVATION**  
 PRICE STREET OVER  
 ILLINOIS MICHIGAN CANAL  
 GRUNDY COUNTY  
 STA. 103+80.32  
 STRUCTURE NO. 032-7099

	USER NAME =	DESIGNED - KES	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE NO. 032-7099 SHEET NO. 1 OF 19 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - MAH	REVISED -			STRATTON 2018	GRUNDY	42	22	
	PLOT DATE =	DRAWN - JRP	REVISED -							
		CHECKED - KES	REVISED -						ILLINOIS FED. AID PROJECT	



SECTION THRU ABUTMENT

**TOTAL BILL OF MATERIAL**

Item	Unit	Super	Sub	Total
Porous Granular Embankment	Cu. Yd.		19	19
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		102	102
Concrete Structures	Cu. Yd.		45.4	45.4
Concrete Superstructure	Cu. Yd.	31.0		31.0
Bridge Decking Grooving	Sq. Yd.	217		217
Concrete Encasement	Cu. Yd.		5.5	5.5
Form Liner Textured Surface	Sq. Ft.	854		854
Protective Coat	Sq. Yd.	318		318
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	2918		2918
Painting Steel Railing	Foot	154		154
Reinforcement Bars, Epoxy Coated	Pound	6800	6680	13,480
Parapet Railing	Foot	154		154
Furnishing Steel Piles HP 12 x 53	Foot		965	965
Driving Piles	Foot		965	965
Name Plates	Each	1		1
Permanent Casing	Foot		48	48
Controlled Low-Strength Material	Cu. Yd.		28.8	28.8
Concrete Bridge Railing	Foot	195		195
Staining Concrete Structures	Sq. Ft.	1842		1842
Concrete Wearing Surface, 5"	Sq. Yd.	239		239

**GENERAL NOTES**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.
3. The existing structural steel coating contains lead. The contractor shall take appropriate precautions to deal with the presence of lead on this project.
4. Protective coat shall be applied to the entire top surface of the bridge deck, the face and top of curb, and the face and top of sidewalk. Care shall be taken not to apply protective coat to the areas of concrete that will receive stain.
5. Concrete encasement at the piers may be placed underwater into permanent encasement. Concrete shall be tremied according to Article 503.08 of the Standard Specifications.
6. Staining concrete structures shall include the top and both sides of the concrete bridge rail, the outside face of the concrete curb, the outside face of the concrete sidewalk, the exterior face of both fascia beams, and the sides and top of all pilasters. See Special Provisions.

**WATERWAY INFORMATION**

Existing Overtopping Elev. 507.10 @ Sta. 103+35.56  
 Proposed Overtopping Elev. 507.42 @ Sta. 103+30.95  
 Drainage Area = 6.05 sq. mi.

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	10	177	173	504.3	0.0	0.0	504.3	504.3
Design	20	12	187	182	504.5	0.0	0.0	504.5	504.5
	50	13	190	186	504.5	0.0	0.0	504.5	504.5
Base	100	16	199	194	504.7	0.0	0.0	504.7	504.7
	200	17	202	197	504.7	0.0	0.0	504.7	504.7

10 Year Velocity through existing bridge = 0.06 ft/s  
 10 Year Velocity through proposed bridge = 0.06 ft/s

**DESIGN SCOUR ELEVATION TABLE**

	Design Scour Elevations (ft.)				Item 113
	S. Abut.	Pier 1	Pier 2	N. Abut.	
Q100	502.25	499.17	499.17	506.59	8
Q200	502.25	499.17	499.17	506.59	
Design	502.25	499.17	499.17	506.59	
Check	502.25	499.17	499.17	506.59	

**LOADING HL 93**

Allow 50#/sq. ft. for future wearing surface.

**DESIGN SPECIFICATIONS**

2017 AASHTO LRFD Bridge Design Specifications.

**DESIGN STRESSES**

**FIELD UNITS**

f'c = 3,500 psi  
 fy = 60,000 psi (Reinforcement)

**PRECAST PRESTRESSED UNITS**

f'c = 6,000 psi  
 f'ci = 5,000 psi  
 fpu = 270,000 psi (1/2" φ low lax strands)  
 fpbt = 201,960 psi (1/2" φ low lax strands)

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. (S<sub>D1</sub>) = 0.099 g  
 Design Spectral Acceleration at 0.2 sec. (S<sub>D5</sub>) = 0.171 g  
 Soil Site Class = D



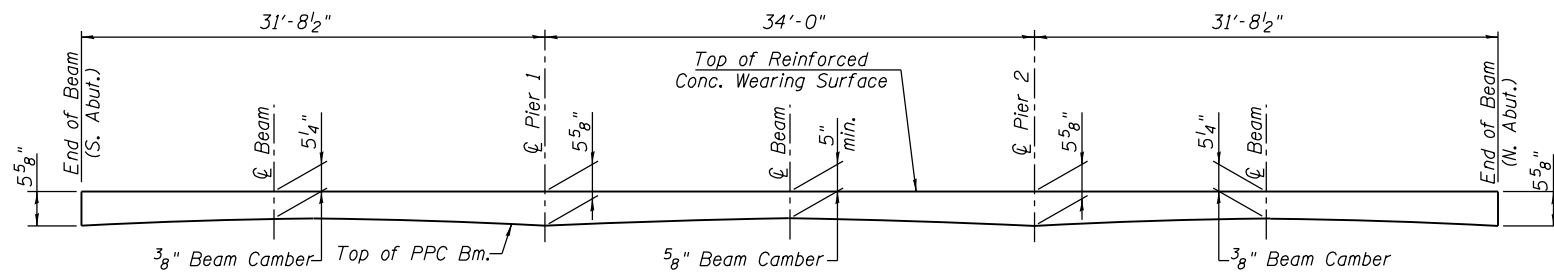
USER NAME =	DESIGNED - KES	REVISED -
CHECKED - MAH	REVISIONS -	
PLOT SCALE =	DRAWN - JRP	REVISED -
PLOT DATE =	CHECKED - KES	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

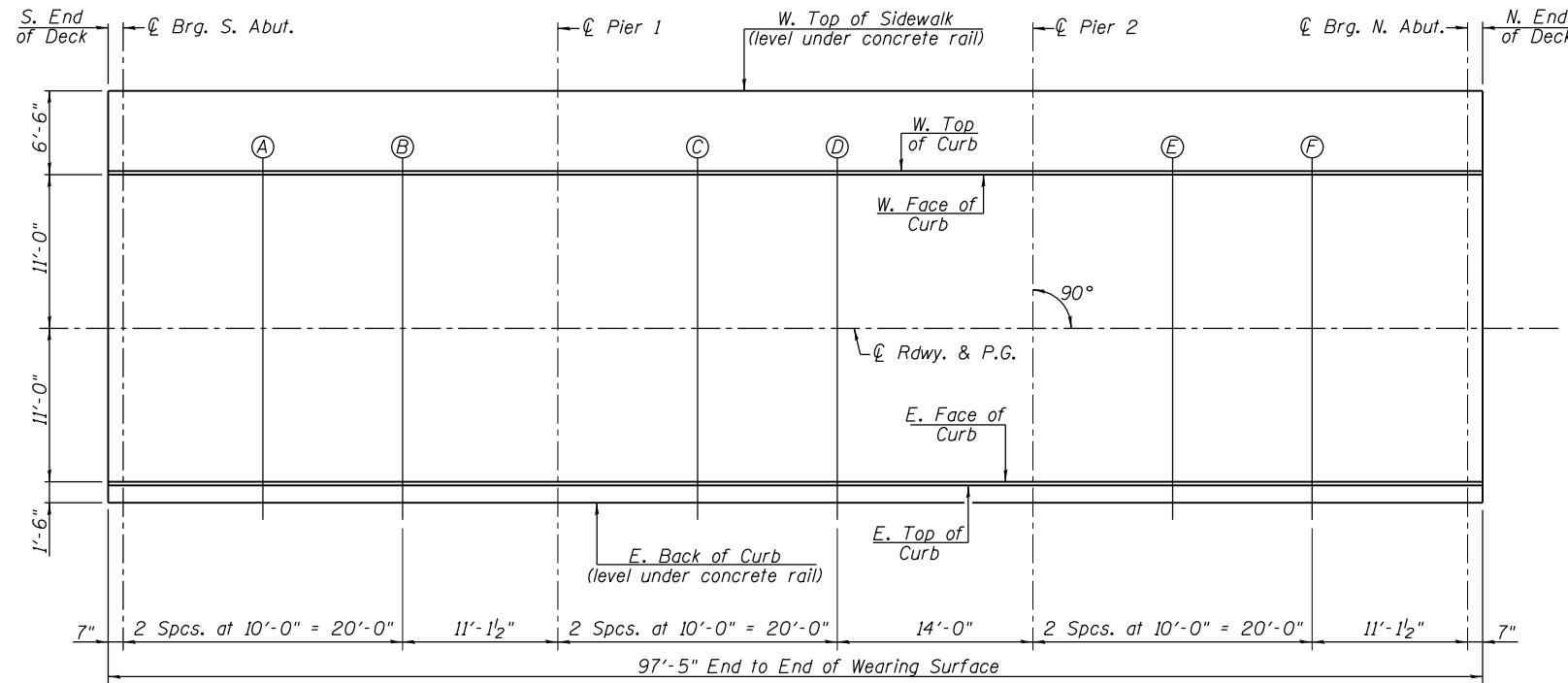
GENERAL DATA  
 STRUCTURE NO. 032-7099

SHEET NO. 2 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	23
			CONTRACT NO. 46902	
ILLINOIS FED. AID PROJECT				



**CONCRETE WEARING SURFACE  
LONGITUDINAL CROSS SECTION**  
(Looking West)



**PLAN**



**WEST TOP OF SIDEWALK**

Location	Station	Offset	Theoretical Grade Elevations
S. End of Deck	103+31.62	-18.50	508.26
☉ Brg. S. Abut.	103+32.20	-18.50	508.28
A	103+42.30	-18.50	508.68
B	103+52.30	-18.50	509.08
☉ Pier 1	103+63.32	-18.50	509.52
C	103+73.32	-18.50	509.92
D	103+83.32	-18.50	510.31
☉ Pier 2	103+97.32	-18.50	510.87
E	104+07.32	-18.50	511.27
F	104+17.32	-18.50	511.67
☉ Brg. N. Abut.	104+28.45	-18.50	512.11
N. End of Deck	104+29.03	-18.50	512.13

**WEST TOP OF CURB**

Location	Station	Offset	Theoretical Grade Elevations
S. End of Deck	103+31.62	-11.10	508.17
☉ Brg. S. Abut.	103+32.20	-11.10	508.19
A	103+42.30	-11.10	508.59
B	103+52.30	-11.10	508.99
☉ Pier 1	103+63.32	-11.10	509.43
C	103+73.32	-11.10	509.83
D	103+83.32	-11.10	510.22
☉ Pier 2	103+97.32	-11.10	510.78
E	104+07.32	-11.10	511.18
F	104+17.32	-11.10	511.58
☉ Brg. N. Abut.	104+28.45	-11.10	512.02
N. End of Deck	104+29.03	-11.10	512.04

**WEST FACE OF CURB**

Location	Station	Offset	Theoretical Grade Elevations
S. End of Deck	103+31.62	-11.00	507.67
☉ Brg. S. Abut.	103+32.20	-11.00	507.69
A	103+42.30	-11.00	508.09
B	103+52.30	-11.00	508.49
☉ Pier 1	103+63.32	-11.00	508.93
C	103+73.32	-11.00	509.33
D	103+83.32	-11.00	509.72
☉ Pier 2	103+97.32	-11.00	510.28
E	104+07.32	-11.00	510.68
F	104+17.32	-11.00	511.08
☉ Brg. N. Abut.	104+28.45	-11.00	511.52
N. End of Deck	104+29.03	-11.00	511.54

**☉ ROADWAY & P.G.**

Location	Station	Offset	Theoretical Grade Elevations
S. End of Deck	103+31.62	0.00	507.84
☉ Brg. S. Abut.	103+32.20	0.00	507.86
A	103+42.30	0.00	508.26
B	103+52.30	0.00	508.66
☉ Pier 1	103+63.32	0.00	509.10
C	103+73.32	0.00	509.50
D	103+83.32	0.00	509.89
☉ Pier 2	103+97.32	0.00	510.45
E	104+07.32	0.00	510.85
F	104+17.32	0.00	511.25
☉ Brg. N. Abut.	104+28.45	0.00	511.69
N. End of Deck	104+29.03	0.00	511.71

**EAST FACE OF CURB**

Location	Station	Offset	Theoretical Grade Elevations
S. End of Deck	103+31.62	11.00	507.67
☉ Brg. S. Abut.	103+32.20	11.00	507.69
A	103+42.30	11.00	508.09
B	103+52.30	11.00	508.49
☉ Pier 1	103+63.32	11.00	508.93
C	103+73.32	11.00	509.33
D	103+83.32	11.00	509.72
☉ Pier 2	103+97.32	11.00	510.28
E	104+07.32	11.00	510.68
F	104+17.32	11.00	511.08
☉ Brg. N. Abut.	104+28.45	11.00	511.52
N. End of Deck	104+29.03	11.00	511.54

**EAST TOP OF CURB**

Location	Station	Offset	Theoretical Grade Elevations
S. End of Deck	103+31.62	11.10	508.34
☉ Brg. S. Abut.	103+32.20	11.10	508.36
A	103+42.30	11.10	508.76
B	103+52.30	11.10	509.16
☉ Pier 1	103+63.32	11.10	509.60
C	103+73.32	11.10	510.00
D	103+83.32	11.10	510.39
☉ Pier 2	103+97.32	11.10	510.95
E	104+07.32	11.10	511.35
F	104+17.32	11.10	511.75
☉ Brg. N. Abut.	104+28.45	11.10	512.19
N. End of Deck	104+29.03	11.10	512.21

**EAST BACK OF CURB**

Location	Station	Offset	Theoretical Grade Elevations
S. End of Deck	103+31.62	12.50	508.34
☉ Brg. S. Abut.	103+32.20	12.50	508.36
A	103+42.30	12.50	508.76
B	103+52.30	12.50	509.16
☉ Pier 1	103+63.32	12.50	509.60
C	103+73.32	12.50	510.00
D	103+83.32	12.50	510.39
☉ Pier 2	103+97.32	12.50	510.95
E	104+07.32	12.50	511.35
F	104+17.32	12.50	511.75
☉ Brg. N. Abut.	104+28.45	12.50	512.19
N. End of Deck	104+29.03	12.50	512.21



USER NAME =	DESIGNED - KES	REVISED -
CHECKED - MAH	REVISIONS -	
PLOT SCALE =	DRAWN - JRP	REVISED -
PLOT DATE =	CHECKED - KES	REVISED -

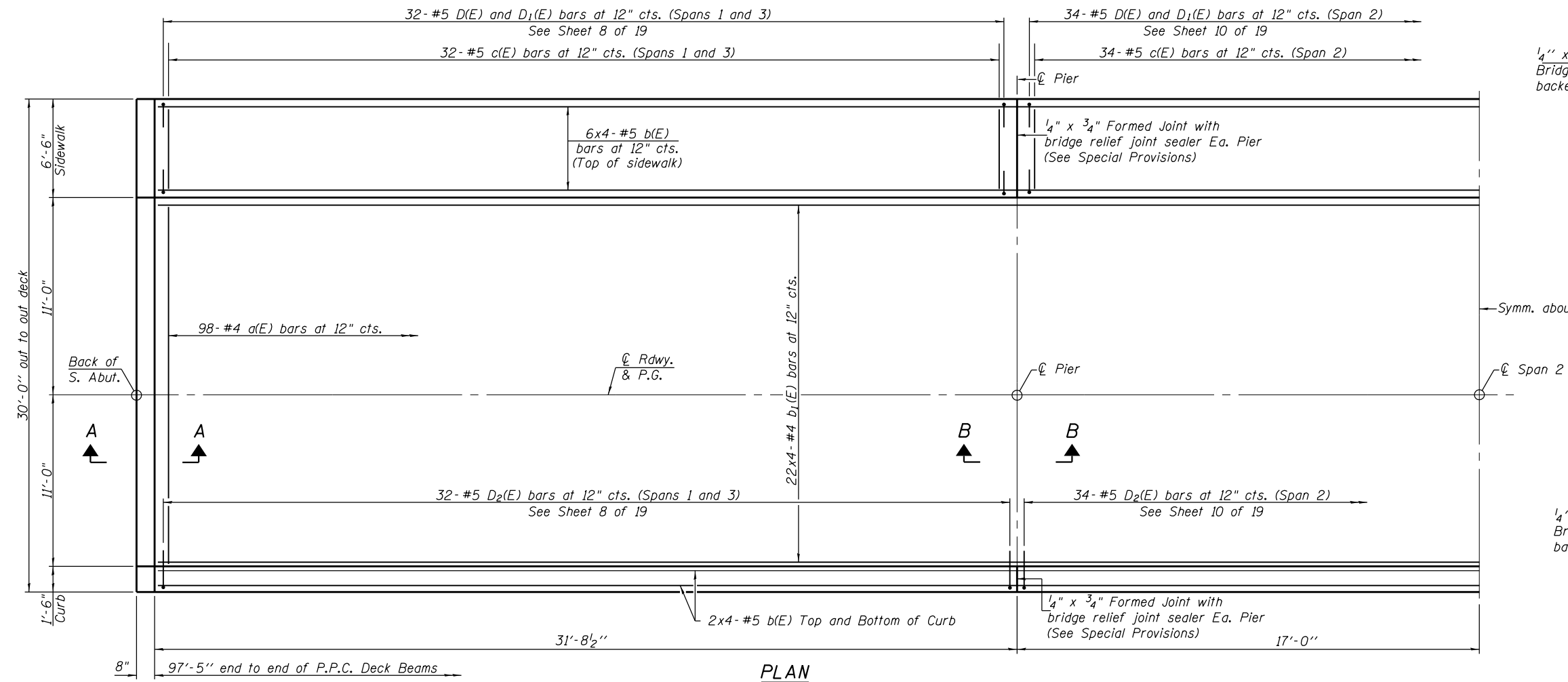
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WEARING SURFACE ELEVATIONS  
STRUCTURE NO. 032-7099**

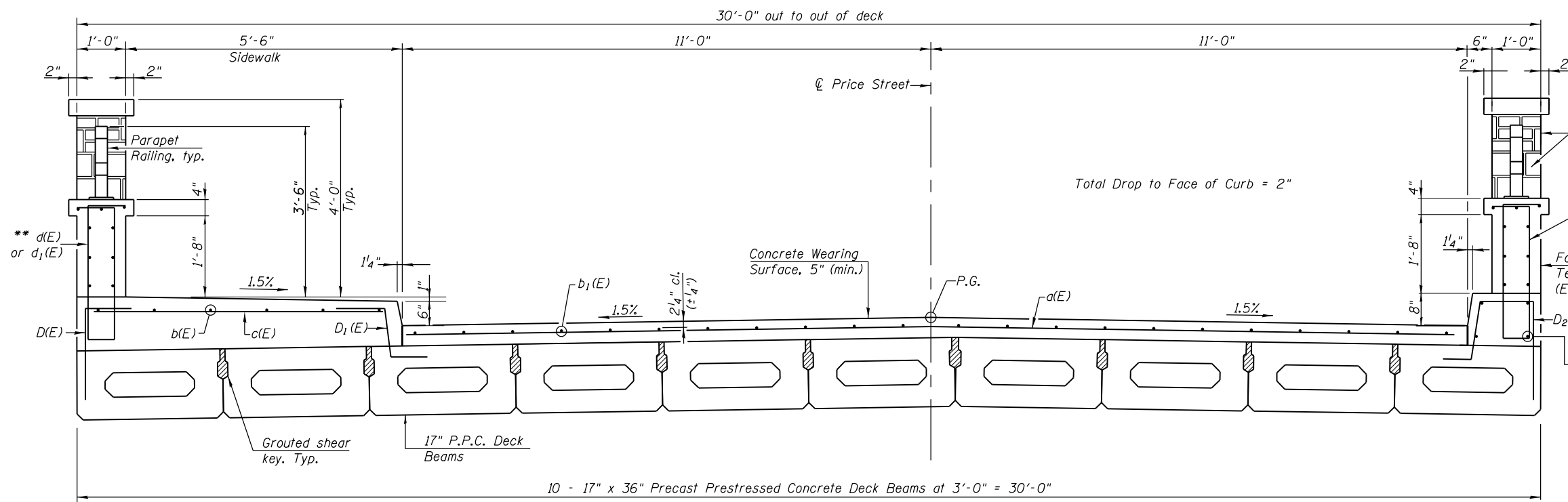
SHEET NO. 3 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	24
CONTRACT NO. 46902				
ILLINOIS FED. AID PROJECT				

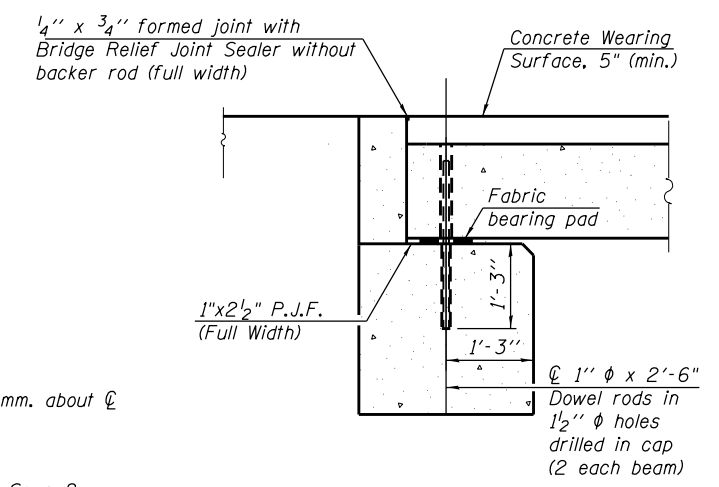




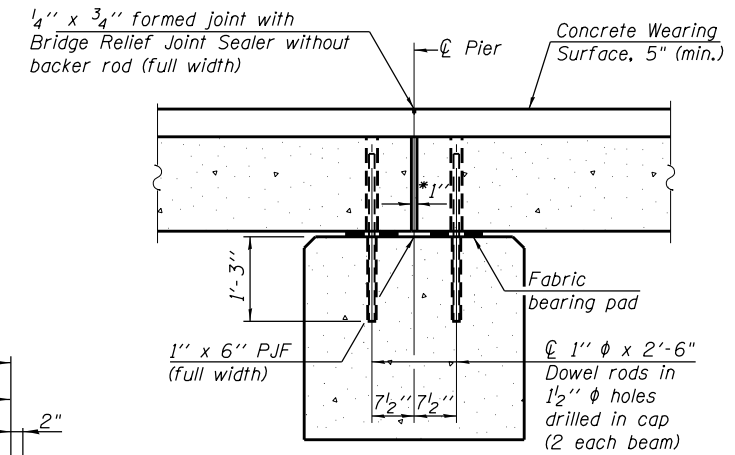
**PLAN**



**CROSS SECTION**  
(Looking North)



**SECTION A-A**  
See sheet 8 of 19 for fabric bearing pad details.



**SECTION B-B**  
\*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

**MIN. BAR LAP**  
#4 bar - 2'-7"  
#5 bar - 3'-2"

Notes:  
See sheet 5 of 19 for Superstructure Details and Bill of Material.

\*\* See sheet 6 of 19 for d(E) and d1(E) bar spacing



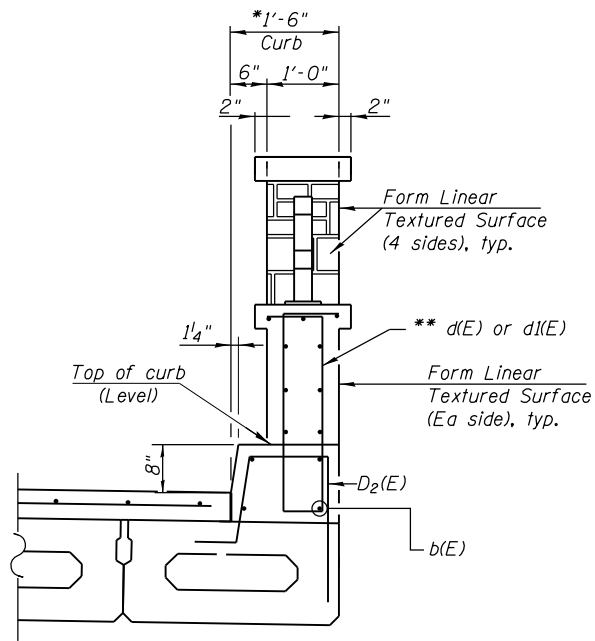
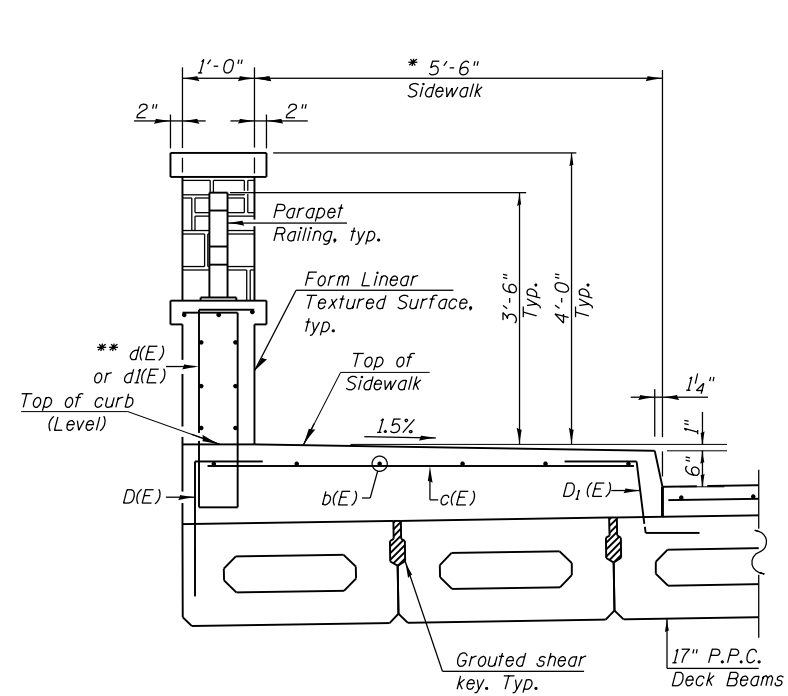
USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - KES	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE**  
**STRUCTURE NO. 032-7099**

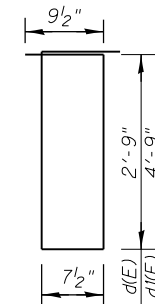
SHEET NO. 4 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	25
			CONTRACT NO. 46902	
ILLINOIS FED. AID PROJECT				



**MINIMUM BAR LAP**

#4 bar - 2'-7"  
#5 bar - 3'-2"



**BAR d(E) & d1(E)**

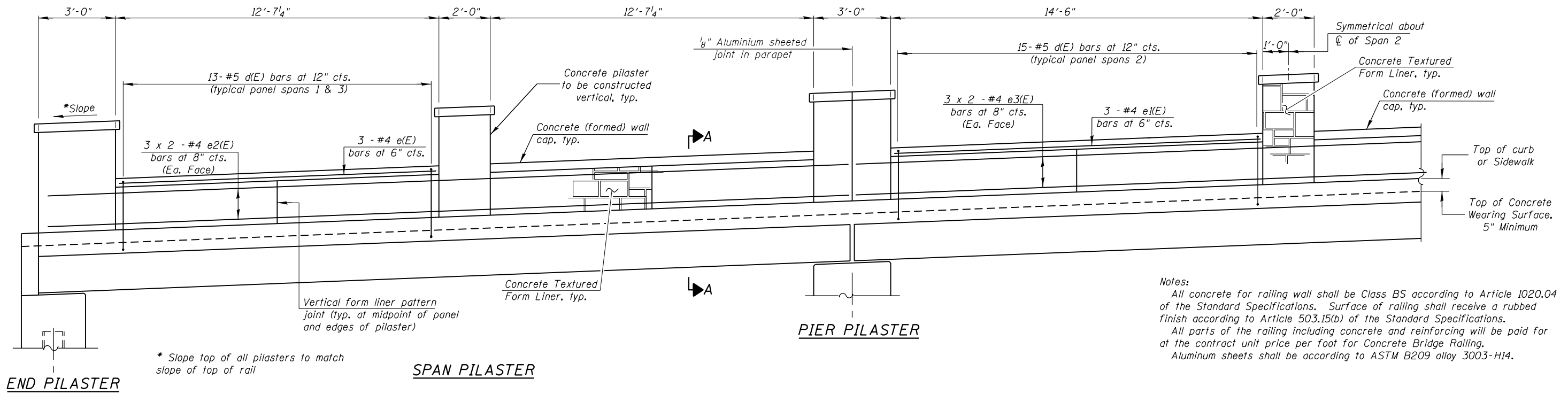
**SECTION THRU SIDEWALK & CURB**

\* Cost of concrete sidewalk and concrete curb is included in Concrete Superstructure.  
\*\* **d(E)** and **d1(E)** bars are included in Superstructure Bill of Material. See sheet 6 of 19 for spacing.

**SUPERSTRUCTURE BILL OF MATERIAL**

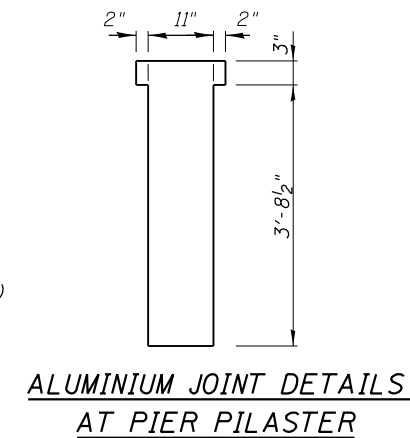
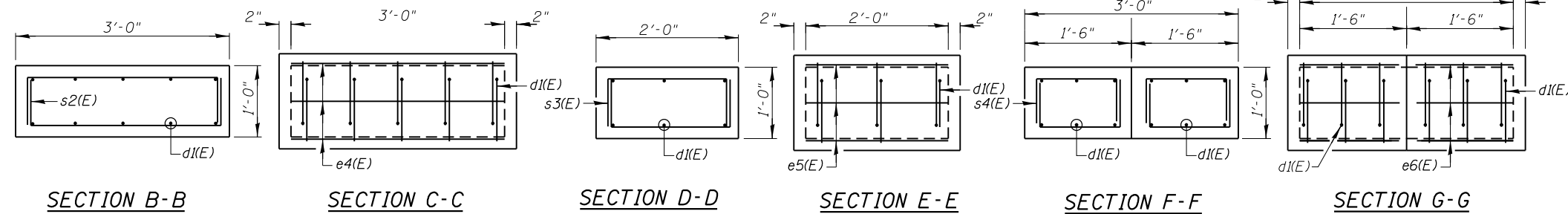
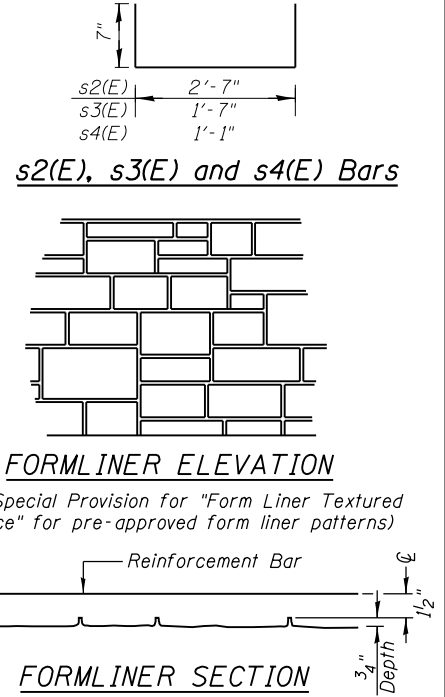
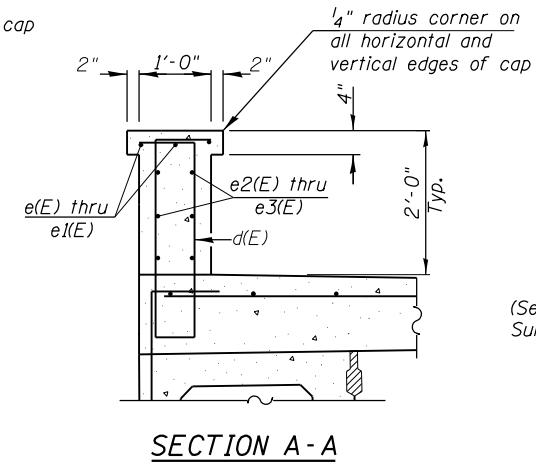
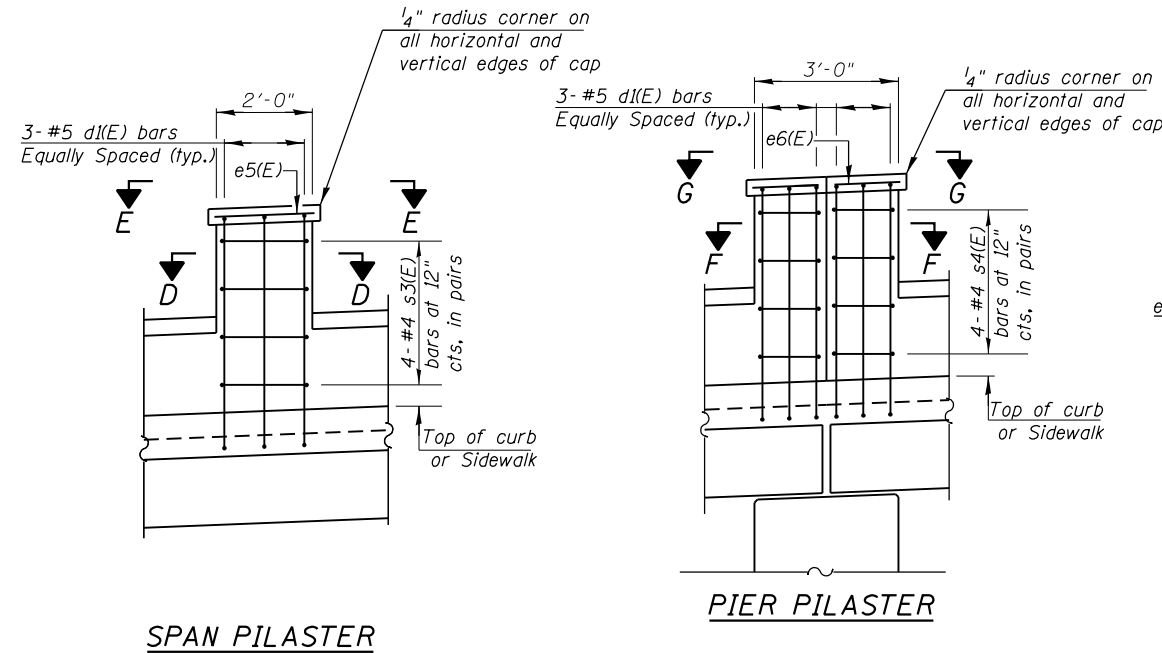
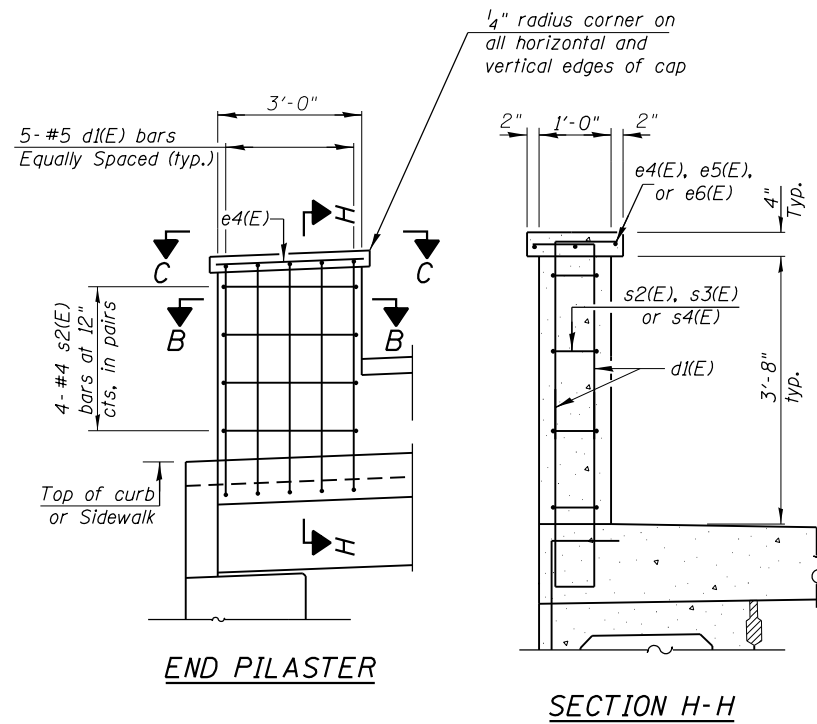
Bar	No.	Size	Length	Shape
<b>d(E)</b>	98	#4	21'-8"	—
<b>b(E)</b>	40	#5	26'-10"	—
<b>b1(E)</b>	88	#4	26'-4"	—
<b>c(E)</b>	98	#5	6'-1"	—
<b>d(E)</b>	164	#5	7'-9"	□
<b>d1(E)</b>	62	#5	11'-9"	□
Reinforcement Bars, Epoxy Coated			Pound	6800
Concrete Superstructure			Cu. Yd.	31.0

Bars indicated thus 7 x 4-#5 etc. indicates 7 lines of bars with 4 lengths per line.



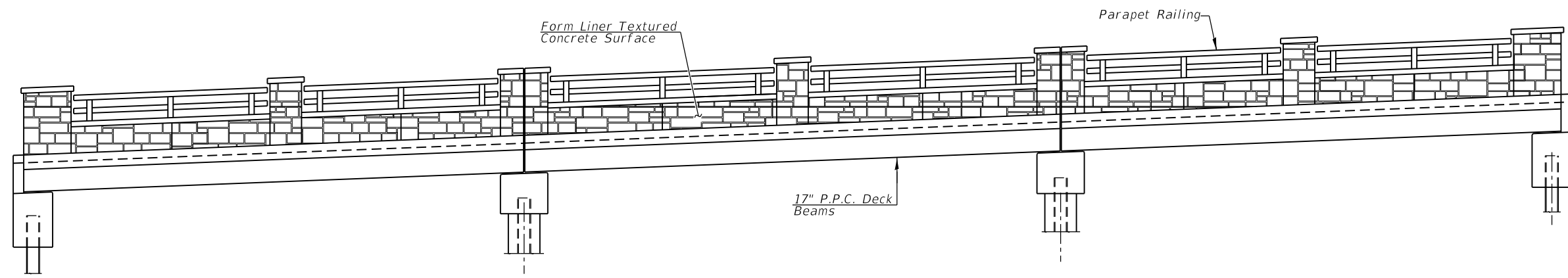
**INSIDE ELEVATION OF CONCRETE BRIDGE RAIL**  
 (Parapet Rail is not shown for clarity)

**MIN. BAR LAP**  
 #4 bars = 2'-7"

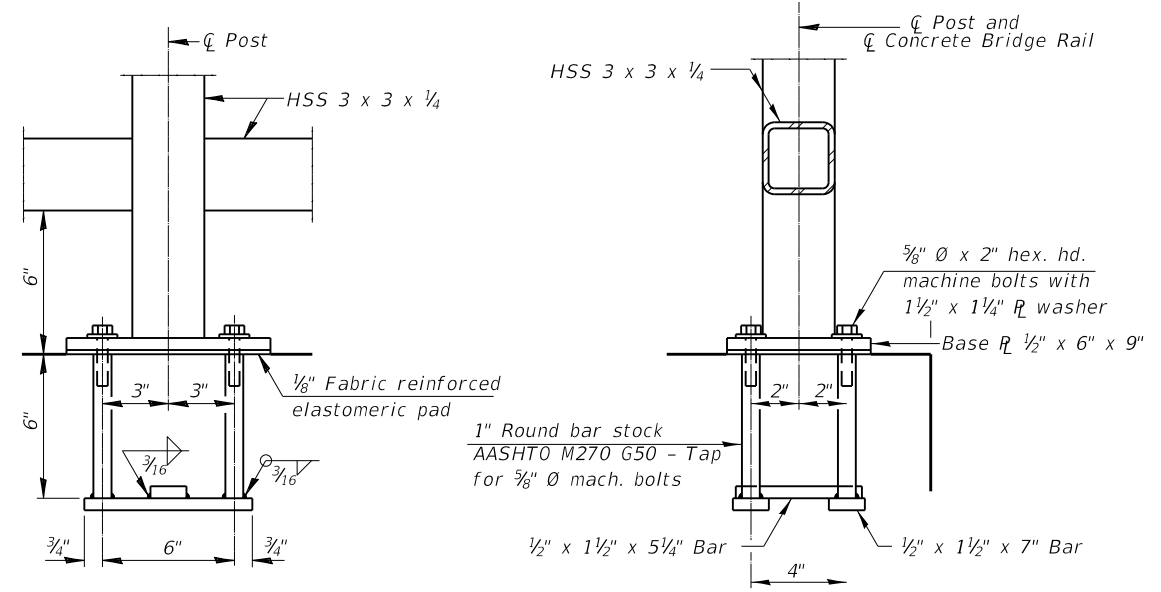
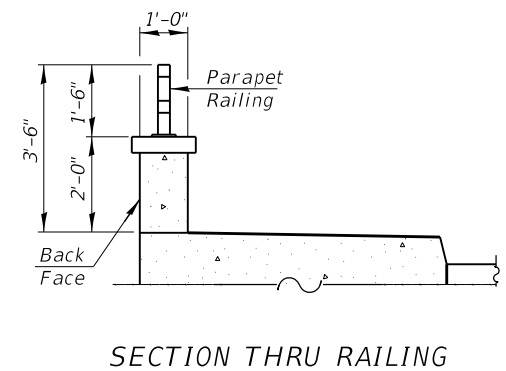
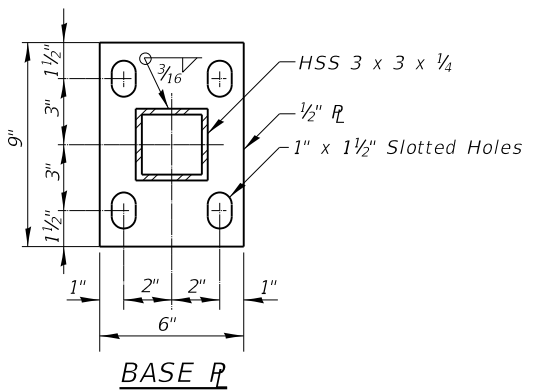


**CONCRETE BRIDGE RAILING BAR LIST**

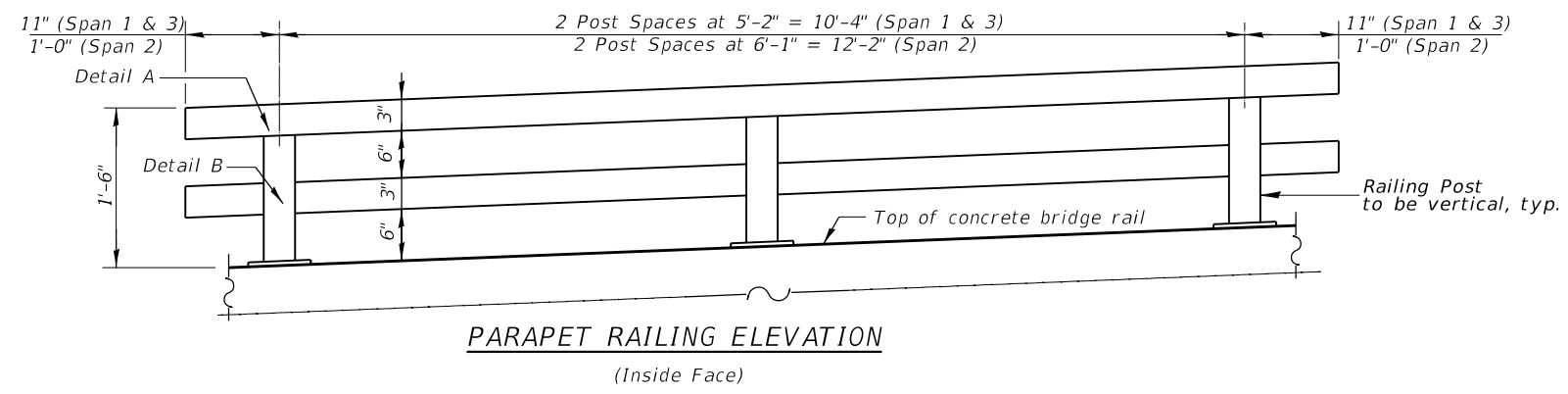
Bar	No.	Size	Length	Shape
e(E)	24	#4	12'-3"	—
e1(E)	12	#4	14'-2"	—
e2(E)	48	#4	17'-0"	—
e3(E)	24	#4	18'-2"	—
e4(E)	12	#4	3'-0"	—
e5(E)	18	#4	2'-0"	—
e6(E)	24	#4	1'-6"	—
s2(E)	32	#4	3'-9"	□
s3(E)	48	#4	2'-9"	□
s4(E)	64	#4	2'-3"	□



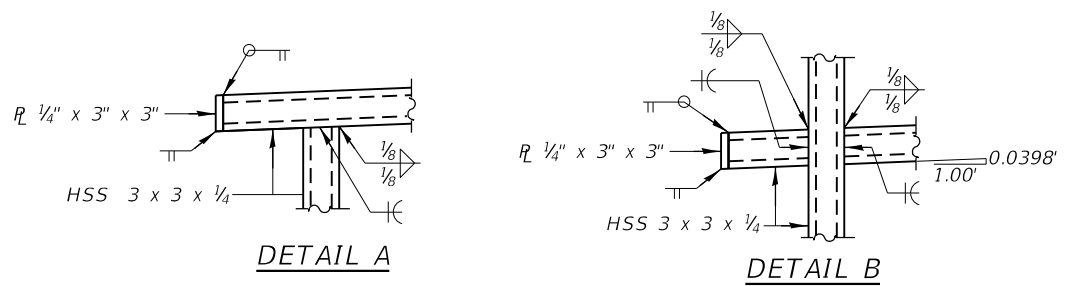
ELEVATION



In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



Notes:  
 All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications.  
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.  
 See Special Provisions for "Painting Steel Railing".



BILL OF MATERIAL

Item	Unit	Quantity
Painting Steel Railing	Foot	154
Parapet Railing	Foot	154



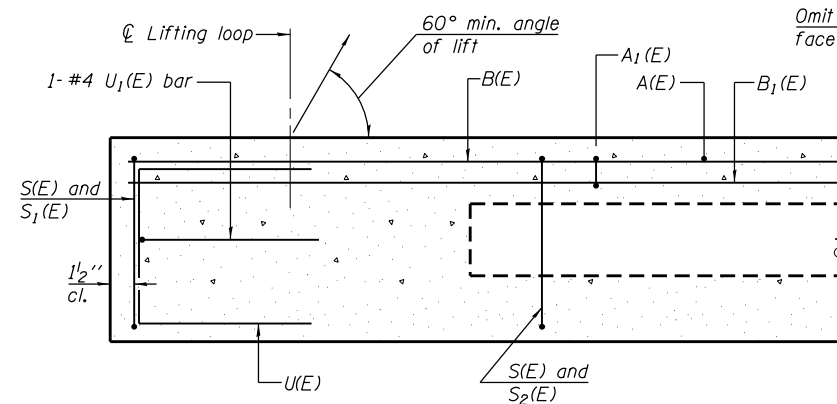
USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - KES	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

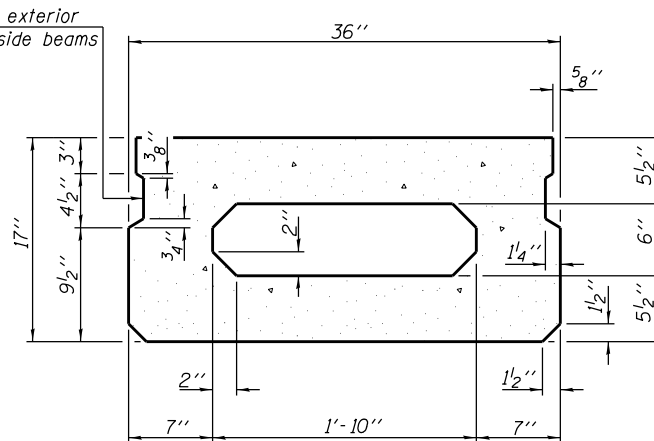
PARAPET RAILING  
 STRUCTURE NO. 032-7099

SHEET NO. 7 OF 19 SHEETS

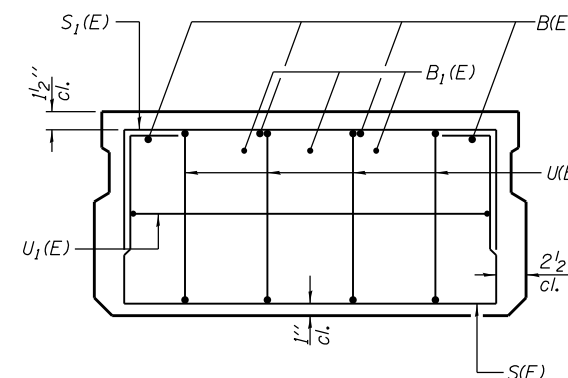
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	28
CONTRACT NO. 49602				
ILLINOIS FED. AID PROJECT				



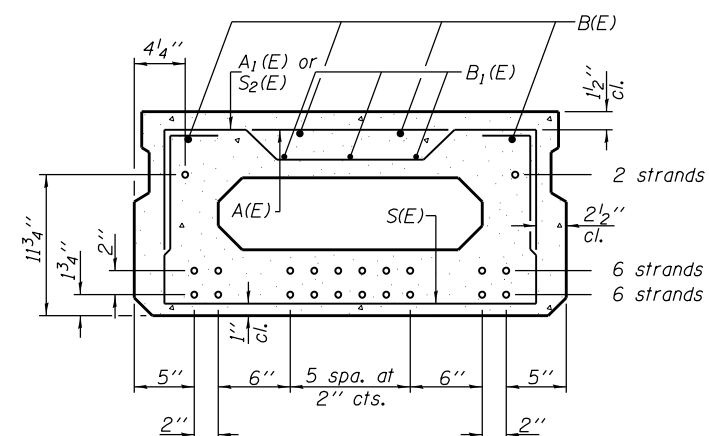
SECTION A-A



SECTION B-B  
(Showing dimensions)



VIEW C-C



SECTION B-B

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MINIMUM BAR LAP

#4 bar = 1'-11"  
#5 bar = 2'-6"

BAR LIST  
ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	9	#4	2'-7"	—
A1(E)	18	#4	2'-10"	—
B(E)	4	#5	31'-5"	—
B1(E)	3	#4	31'-5"	—
S(E)	46	#4	5'-9"	□
S1(E)	10	#4	4'-3"	□
S2(E)	36	#4	4'-6"	□
U(E)	8	#5	3'-8"	□
U1(E)	2	#4	5'-0"	□

ADDITIONAL BARS REQUIRED FOR  
BEAMS UNDER SIDEWALK & CURB

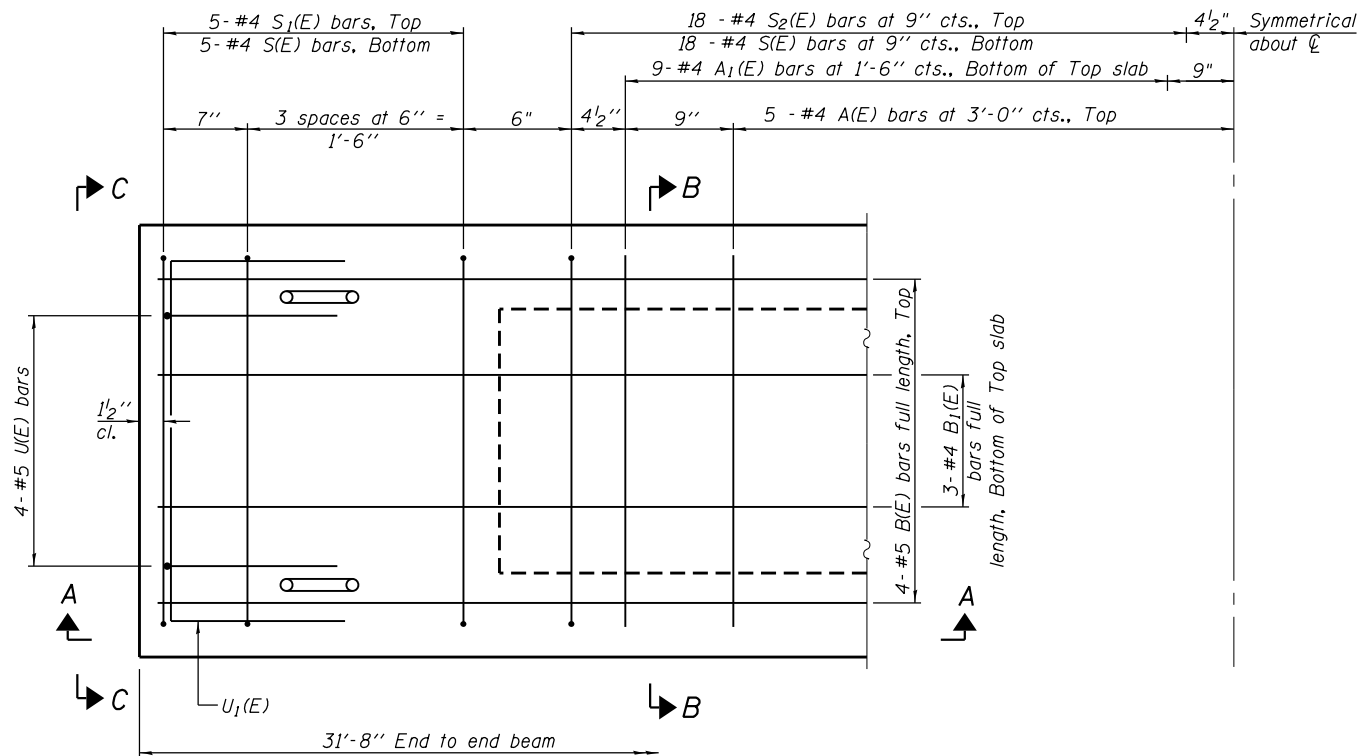
(For information only)

Bar	No.	Size	Length	Shape
* D(E)	32	#5	2'-9"	□
* D1(E)	32	#5	2'-11"	□
** D2(E)	32	#5	4'-11"	□

Note: See sheet 9 of 19 for additional details and Bill of Material.

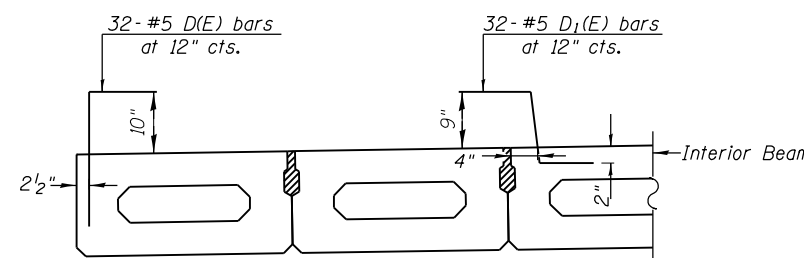
\* Provide 32- #5 D(E) and D1(E) bars at 12" cts. at beams under sidewalk concrete

\*\* Provide 32- #5 D2(E) bars at 12" cts. at beams under curb concrete

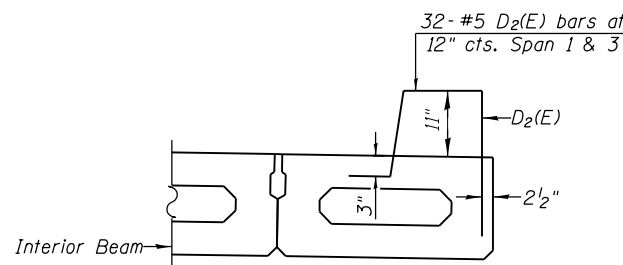


PLAN VIEW

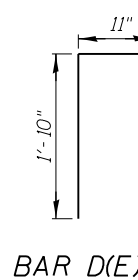
Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



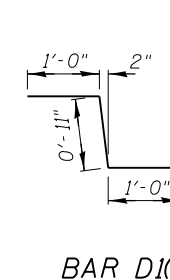
SECTION THRU EXTERIOR BEAMS  
UNDER SIDEWALK



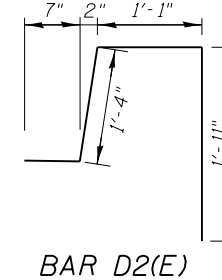
SECTION THRU EXTERIOR BEAMS  
UNDER CURB



BAR D(E)



BAR D1(E)



BAR D2(E)

PD-1736-0

2-17-2017



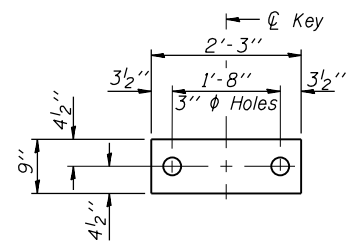
USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - KES	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

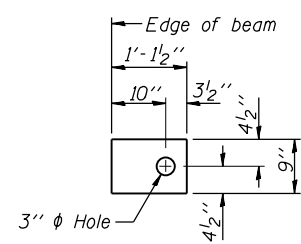
17" x 36" PPC DECK BEAM, SPANS 1 & 3  
STRUCTURE NO. 032-7099

SHEET NO. 8 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	29
			CONTRACT NO. 46902	
ILLINOIS FED. AID PROJECT				



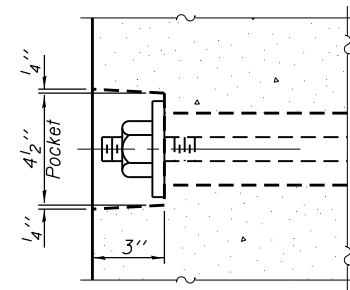
**FABRIC BEARING PAD**  
(Interior)



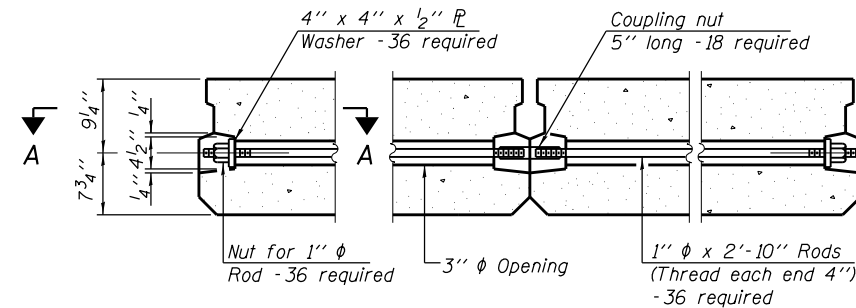
**FABRIC BEARING PAD**  
(Exterior)

**FIXED**

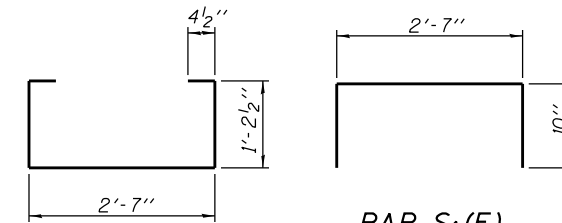
Notes:  
All bearing pads shall be 1" thick.



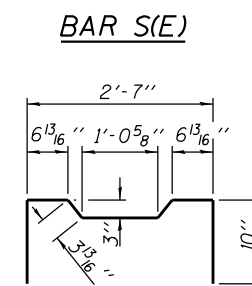
**SECTION A-A**



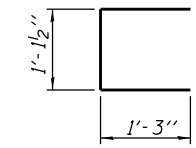
**TYPICAL TRANSVERSE TIE ASSEMBLY**



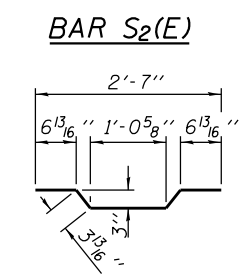
**BAR S<sub>1</sub>(E)**



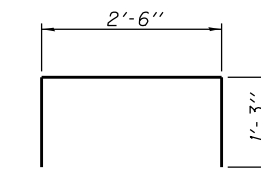
**BAR S(E)**



**BAR U(E)**

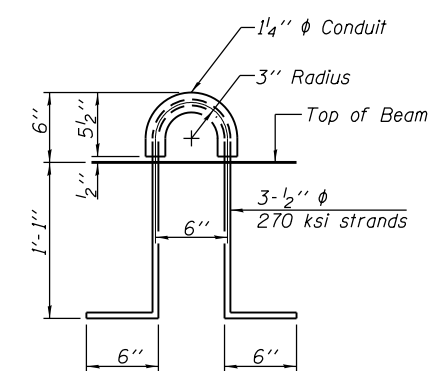


**BAR S<sub>2</sub>(E)**

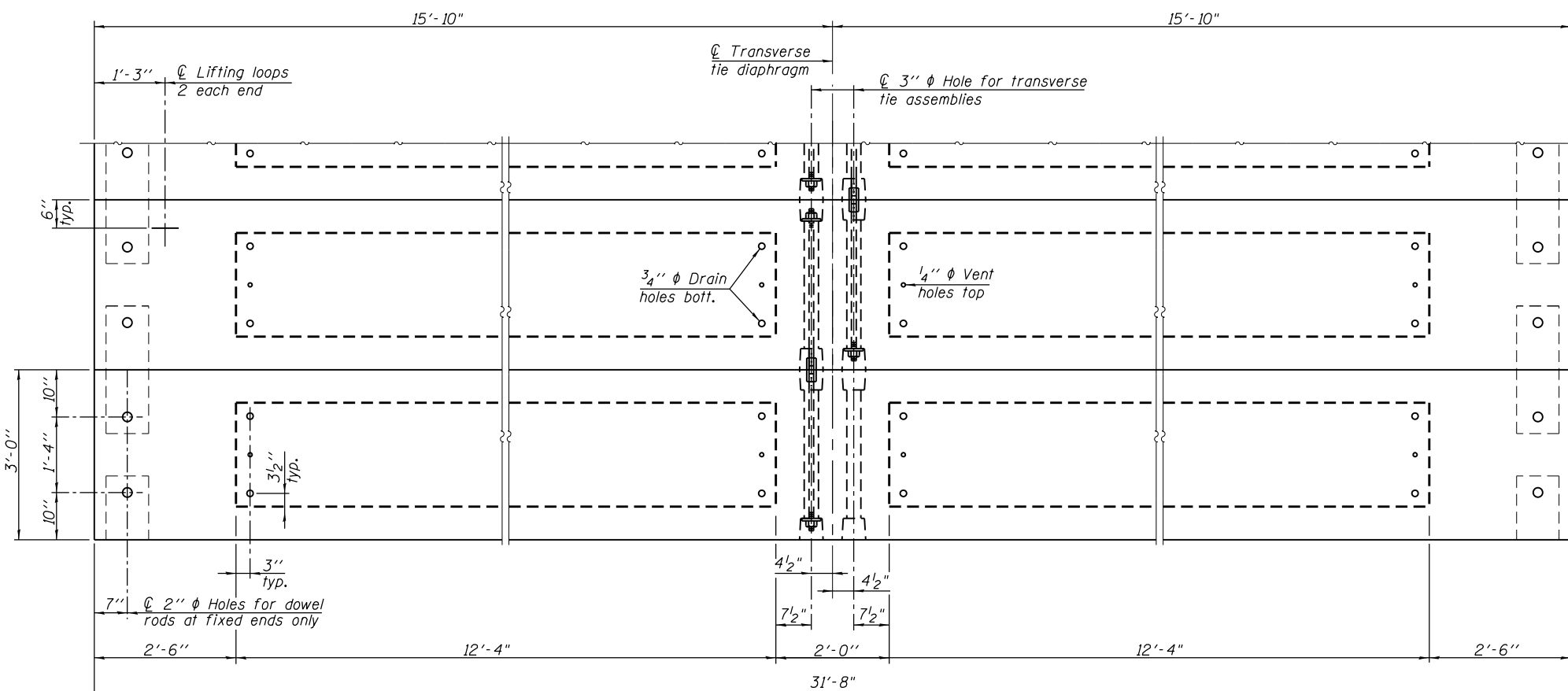


**BAR U<sub>1</sub>(E)**

**BAR A<sub>1</sub>(E)**



**LIFTING LOOP DETAIL**



**PLAN VIEW**

**NOTES**

Note: Connect beams in pairs with the transverse tie configuration shown.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.  
The 1"  $\phi$  rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.  
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.  
A minimum 2 1/2"  $\phi$  lifting pin shall be used to engage the lifting loops during handling.  
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.  
Compressive strength of prestressed concrete,  $f'c$ , shall be 6000 psi.  
Compressive strength of prestressed concrete at release,  $f'ci$ , shall be 5000 psi.

**BILL OF MATERIAL**

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1900
---	---------	------

PD-1736-0D

2-17-2017



USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - KES	REVISED -

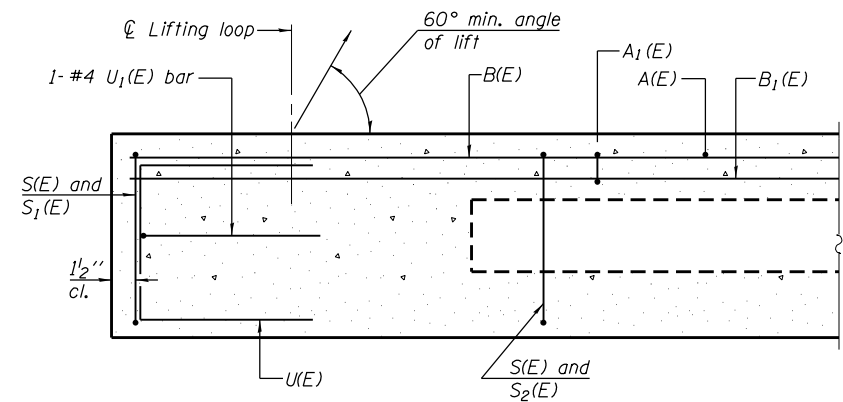
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**17" x 36" PPC DECK BEAM DETAILS - SPANS 1 & 3**  
**STRUCTURE NO. 032-7099**

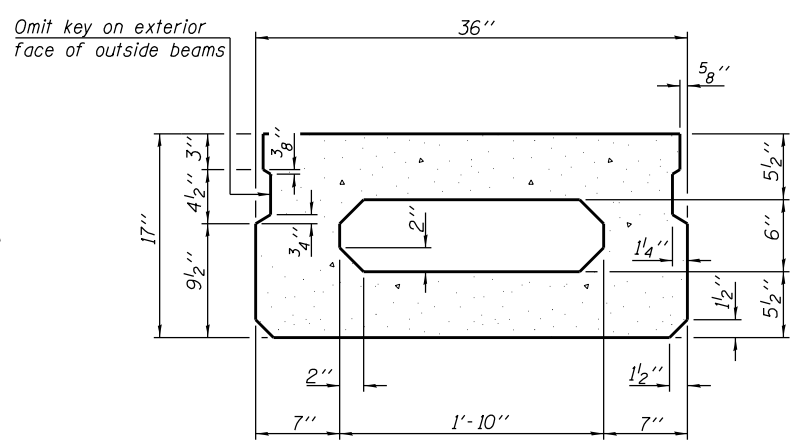
SHEET NO. 9 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	30
CONTRACT NO. 46902				

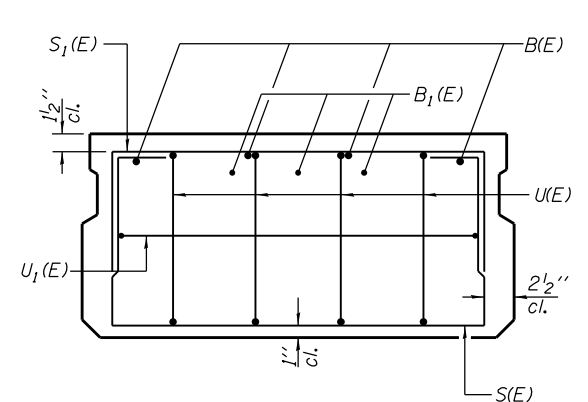
ILLINOIS FED. AID PROJECT



**SECTION A-A**



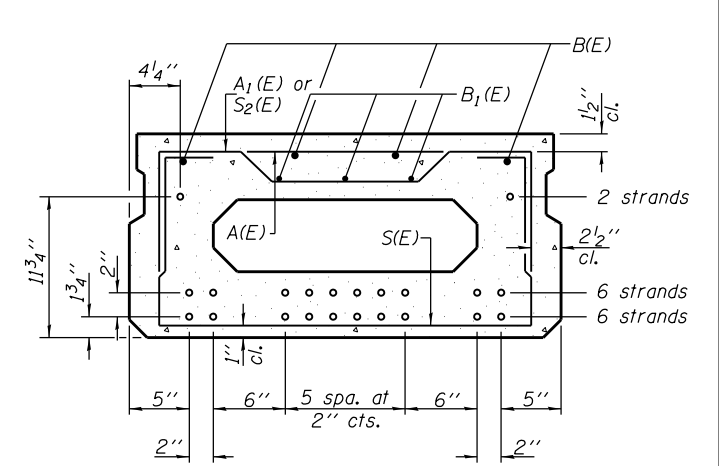
**SECTION B-B**  
(Showing dimensions)



**VIEW C-C**

**MINIMUM BAR LAP**

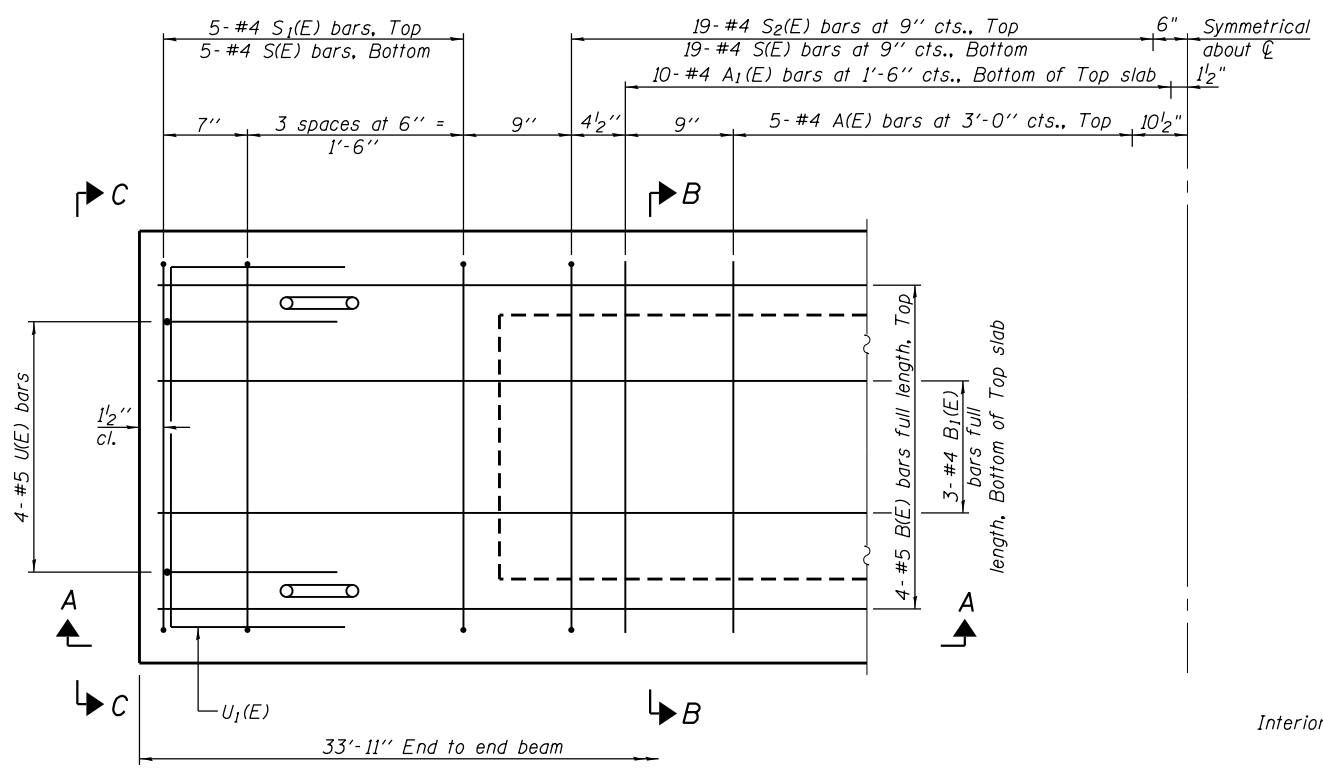
#4 bar = 1'-11"  
#5 bar = 2'-6"



**SECTION B-B**

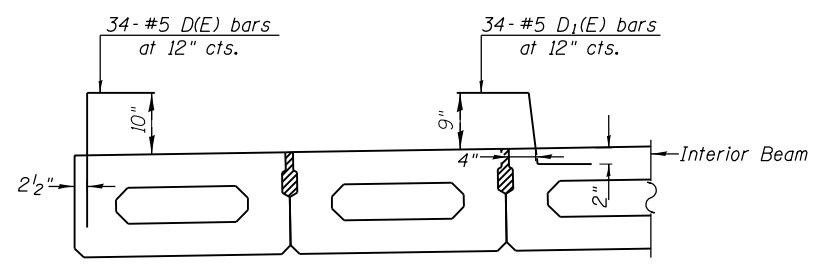
(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

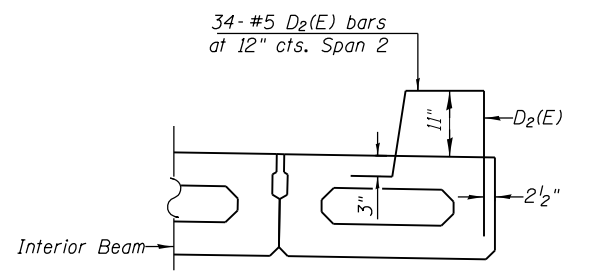


**PLAN VIEW**

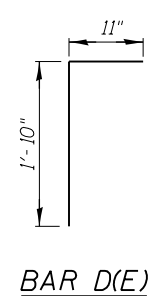
Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4 inches in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



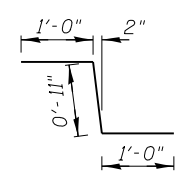
**SECTION THRU EXTERIOR BEAMS UNDER SIDEWALK**



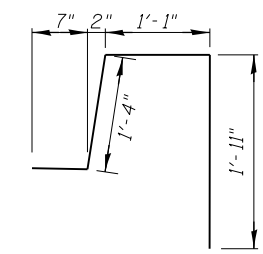
**SECTION THRU EXTERIOR BEAMS UNDER CURB**



**BAR D(E)**



**BAR D1(E)**



**BAR D2(E)**

**BAR LIST**  
**ONE BEAM ONLY**  
(For information only)

Bar	No.	Size	Length	Shape
A(E)	10	#4	2'-7"	—
A1(E)	20	#4	2'-10"	—
B(E)	4	#5	33'-8"	—
B1(E)	3	#4	33'-8"	—
S(E)	48	#4	5'-9"	□
S1(E)	10	#4	4'-3"	□
S2(E)	38	#4	4'-6"	□
U(E)	8	#5	3'-8"	□
U1(E)	2	#4	5'-0"	□

**ADDITIONAL BARS REQUIRED FOR BEAMS UNDER SIDEWALK & CURB**  
(For information only)

Bar	No.	Size	Length	Shape
* D(E)	34	#5	2'-9"	□
* D1(E)	34	#5	2'-11"	□
** D2(E)	34	#5	4'-11"	□

Note: See sheet 11 of 19 for additional details and Bill of Material.

\* Provide 34-#5 D(E) and D1(E) bars at 12 inches cts. at beams under sidewalk concrete

\*\* Provide 34-#5 D2(E) bars at 12 inches cts. at beams under curb concrete



USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - KES	REVISED -

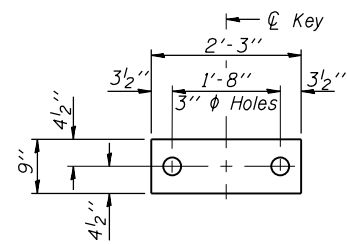
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**17" x 36" PPC DECK BEAM, SPAN 2**  
**STRUCTURE NO. 032-7099**

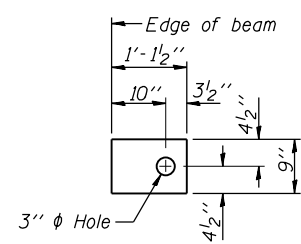
SHEET NO. 10 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	31
			CONTRACT NO. 46902	

ILLINOIS FED. AID PROJECT



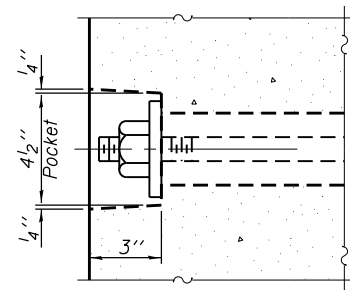
FABRIC BEARING PAD  
(Interior)



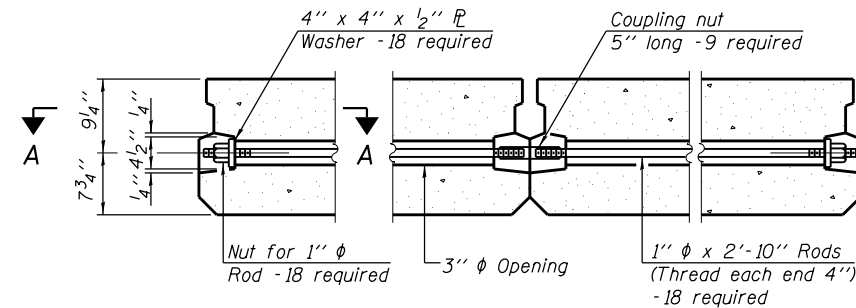
FABRIC BEARING PAD  
(Exterior)

**FIXED**

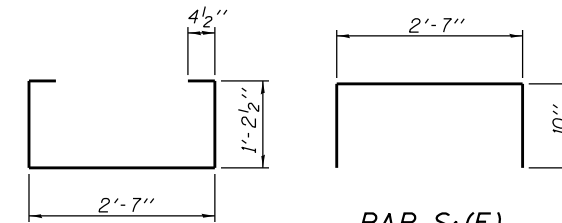
Notes:  
All bearing pads shall be 1" thick.



SECTION A-A

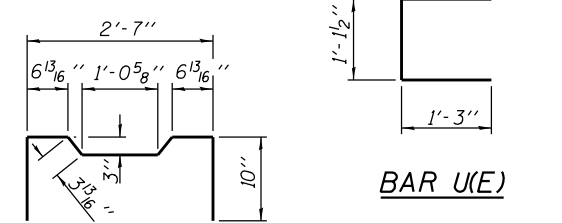


TYPICAL TRANSVERSE TIE ASSEMBLY



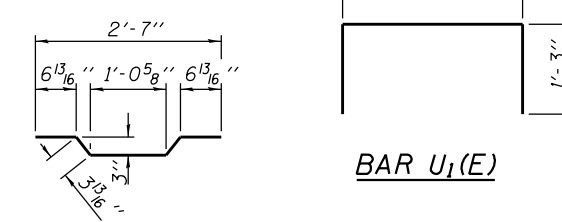
BAR S<sub>1</sub>(E)

BAR S(E)



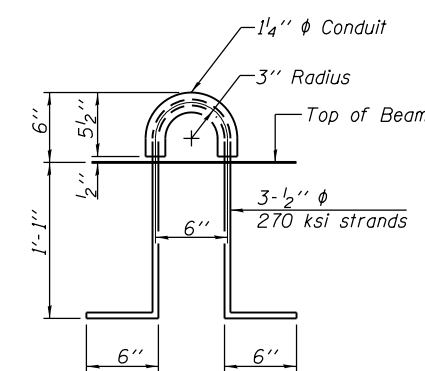
BAR U(E)

BAR S<sub>2</sub>(E)

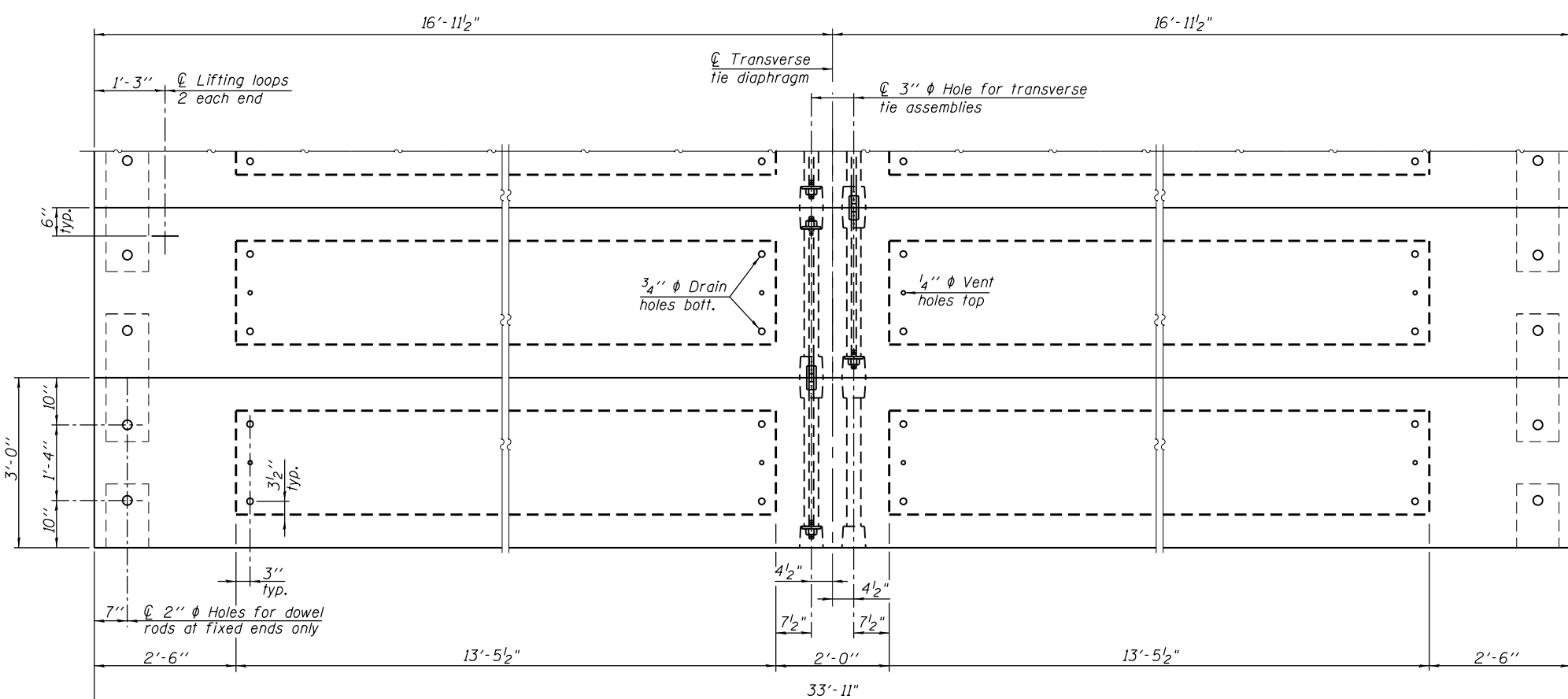


BAR U<sub>1</sub>(E)

BAR A<sub>1</sub>(E)



LIFTING LOOP DETAIL



PLAN VIEW

**NOTES**

Note: Connect beams in pairs with the transverse tie configuration shown.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.  
The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.  
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.  
A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.  
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.  
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.  
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

**BILL OF MATERIAL**

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1018
---	---------	------

PD-1736-0D

2-17-2017



USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - KES	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

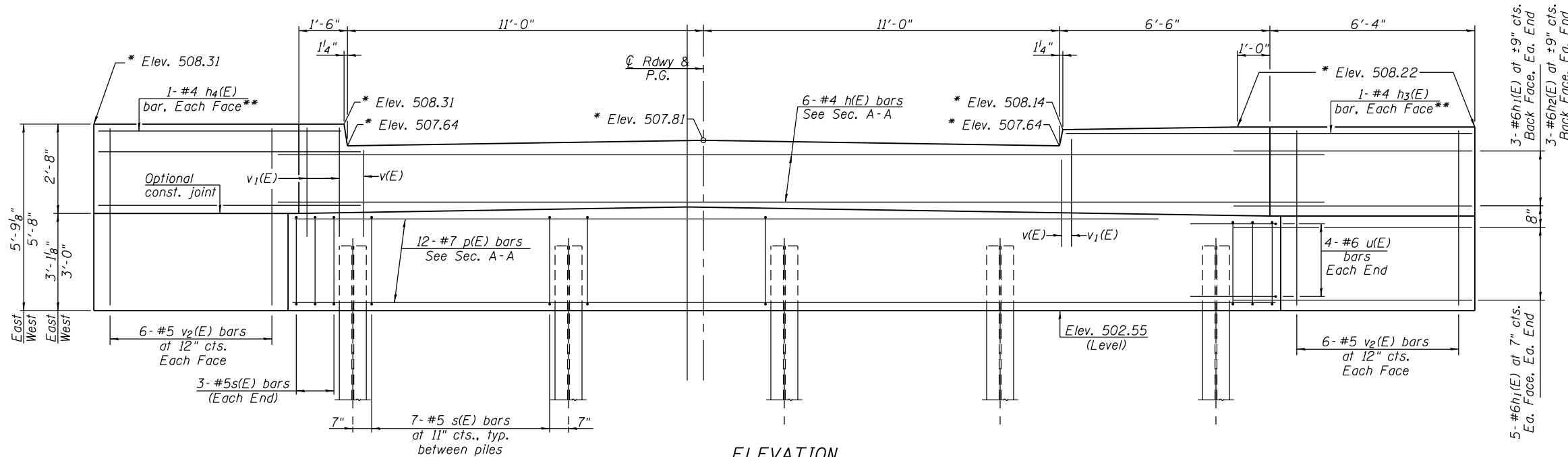
17" x 36" PPC DECK BEAM DETAILS - SPAN 2  
STRUCTURE NO. 032-7099

SHEET NO. 11 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	32
CONTRACT NO. 46902				

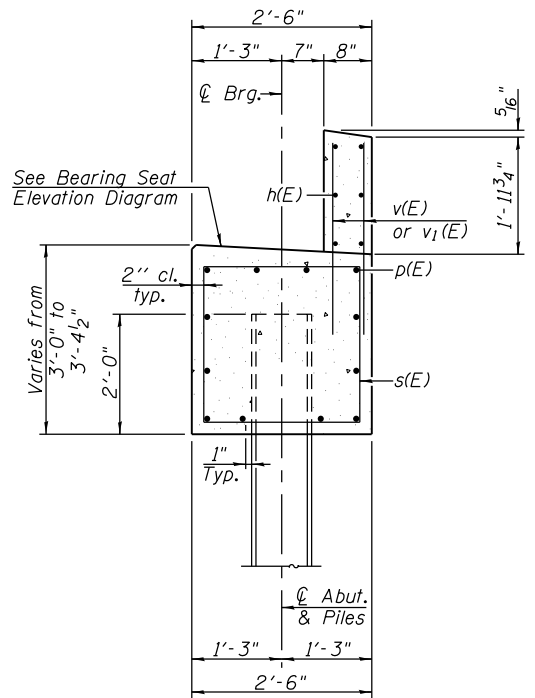
ILLINOIS FED. AID PROJECT



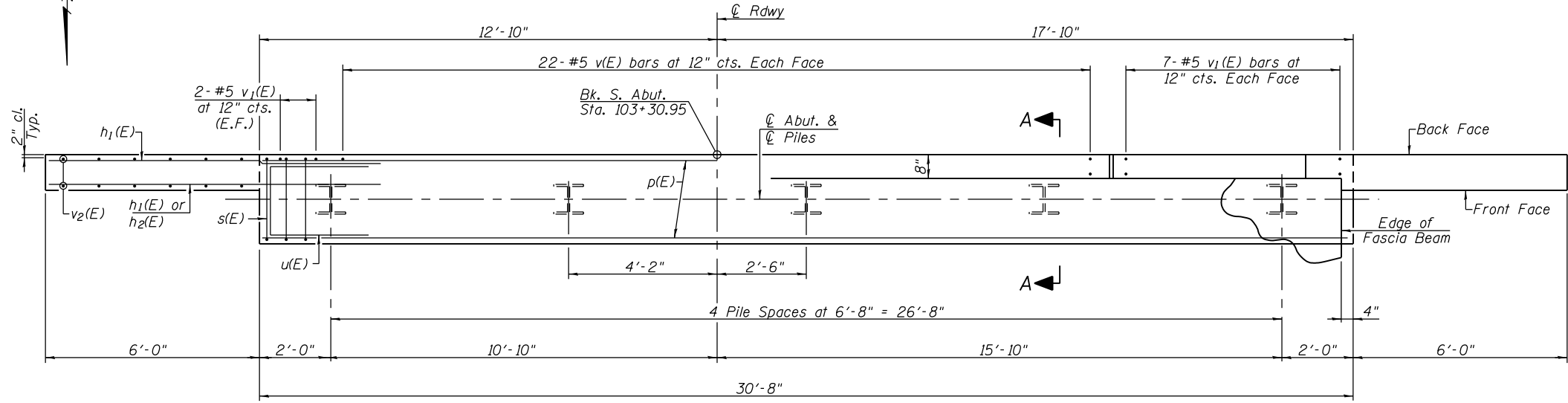


**ELEVATION**

(Looking South)  
 \* Elevation given at the back of abutment.  
 \*\* Field cut bar in front face to fit.

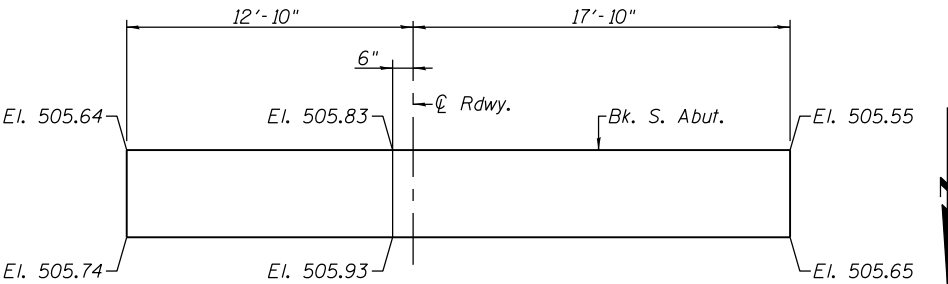
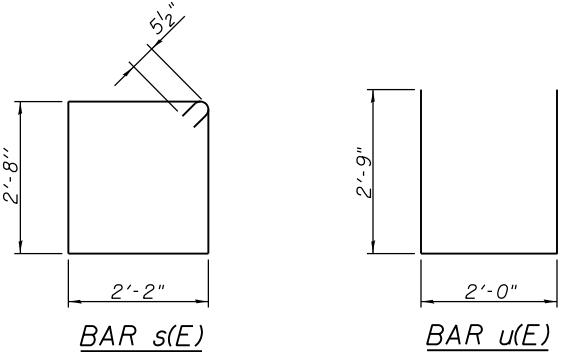


**SECTION A-A**



**PLAN**

**PILE DATA**  
 Type: HP 12x53  
 Nominal Required Bearing: 418 kips  
 Factored Resistance Available: 230 kips  
 Est. Length: 48 ft.  
 No. Production Piles: 5



**BEARING SEAT ELEVATION DIAGRAM**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	6	#4	33'-8"	—
h1(E)	26	#6	8'-9"	—
h2(E)	6	#6	6'-2"	—
h3(E)	2	#4	12'-5"	—
h4(E)	2	#4	7'-5"	—
p(E)	12	#7	30'-4"	—
s(E)	34	#5	10'-7"	□
u(E)	8	#6	7'-6"	U
v(E)	44	#5	3'-3"	—
v1(E)	18	#5	3'-9"	—
v2(E)	24	#5	5'-4"	—
Structure Excavation		Cu. Yd.	46	
Concrete Structures		Cu. Yd.	13.3	
Reinforcement Bars, Epoxy Coated		Pound	2120	
Furnishing Steel Piles, HP 12x53		Foot	240	
Driving Piles		Foot	240	

Notes:  
 For details of piles and Concrete Encasement, see sheet 16 of 19.  
 Cast backwall after beams have been erected.



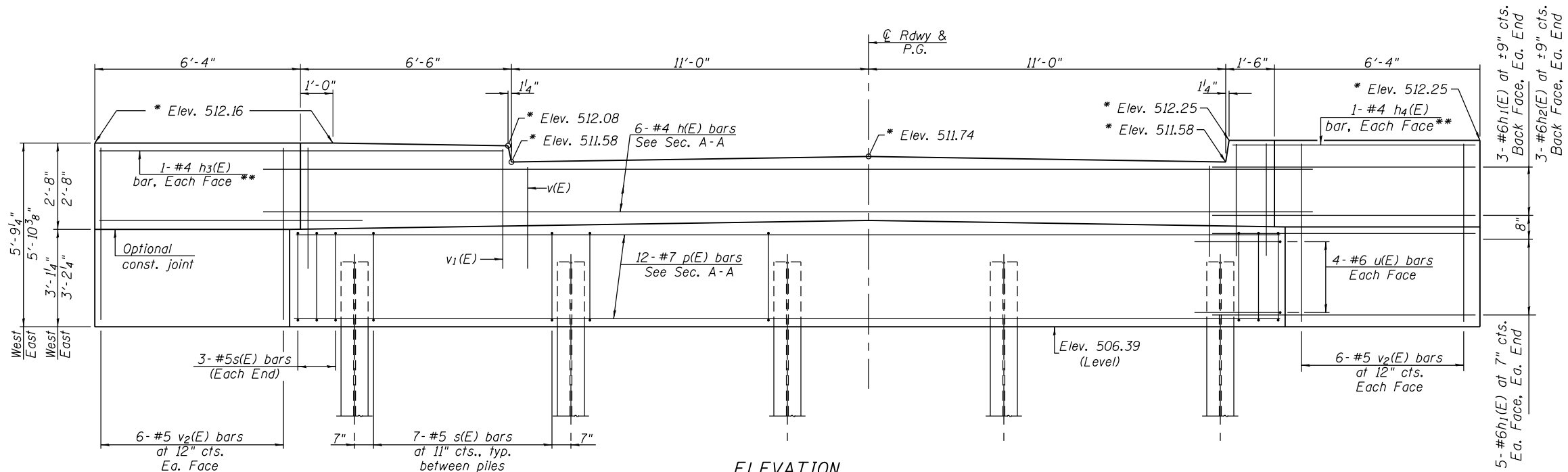
USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - KES	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT**  
**STRUCTURE NO. 032-7099**

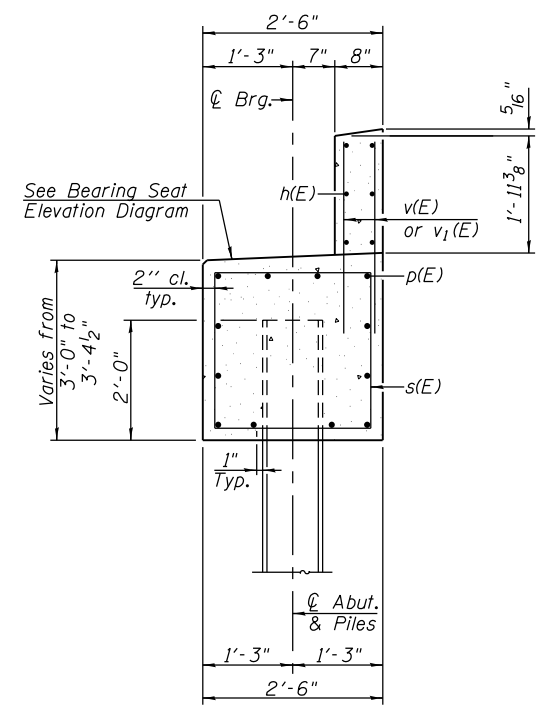
SHEET NO. 12 OF 19 SHEETS

F.A. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	33
			CONTRACT NO. 46902	
ILLINOIS FED. AID PROJECT				

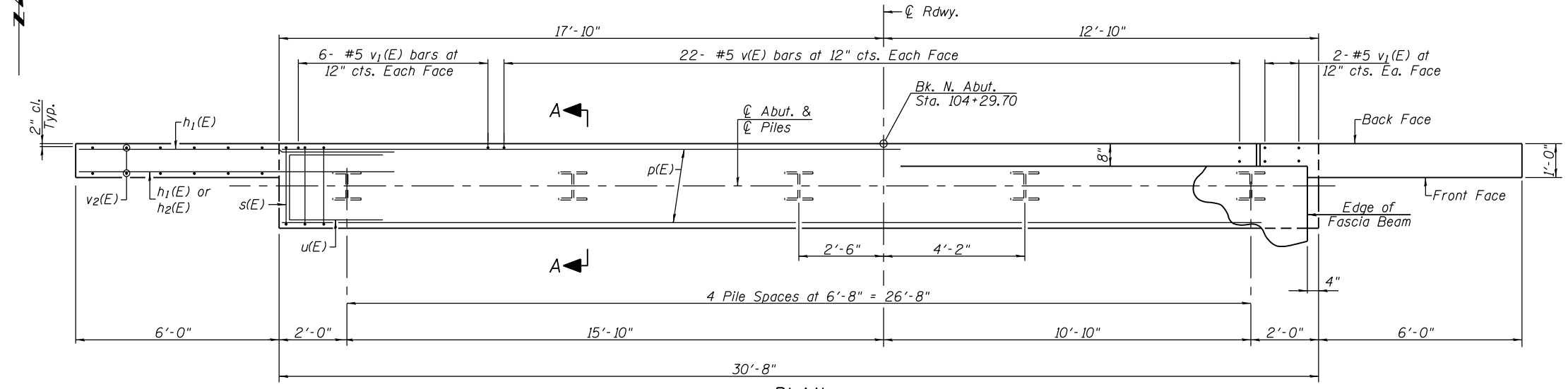


**ELEVATION**  
(Looking North)

\* Elevations given at the back of abutment.  
\*\* Field cut bar in front face to fit.

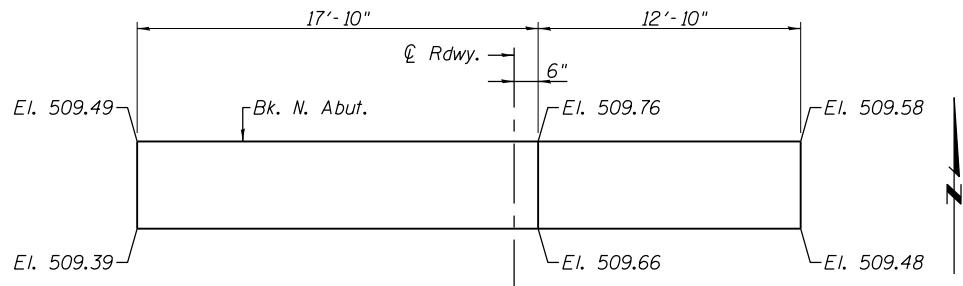
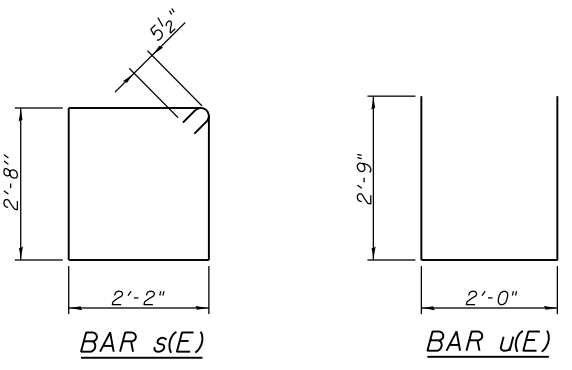


**SECTION A-A**



**PLAN**

**PILE DATA**  
Type: HP 12x53  
Nominal Required Bearing: 418 kips  
Factored Resistance Available: 230 kips  
Est. Length: 48 ft.  
No. Production Piles: 5



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	6	#4	33'-8"	—
h1(E)	26	#6	8'-9"	—
h2(E)	6	#6	6'-2"	—
h3(E)	2	#4	12'-5"	—
h4(E)	2	#4	7'-5"	—
p(E)	12	#7	30'-4"	—
s(E)	34	#5	10'-7"	□
u(E)	8	#6	7'-6"	—
v(E)	44	#5	3'-3"	—
v1(E)	18	#5	3'-9"	—
v2(E)	24	#5	5'-4"	—
Structure Excavation		Cu. Yd.	56	
Concrete Structures		Cu. Yd.	13.3	
Reinforcement Bars, Epoxy Coated		Pound	2120	
Furnishing Steel Piles, HP 12x53		Foot	240	
Driving Piles		Foot	240	

Notes:  
For details of piles and Concrete Encasement, see sheet 15 of 19.  
Cast backwall after beams have been erected.



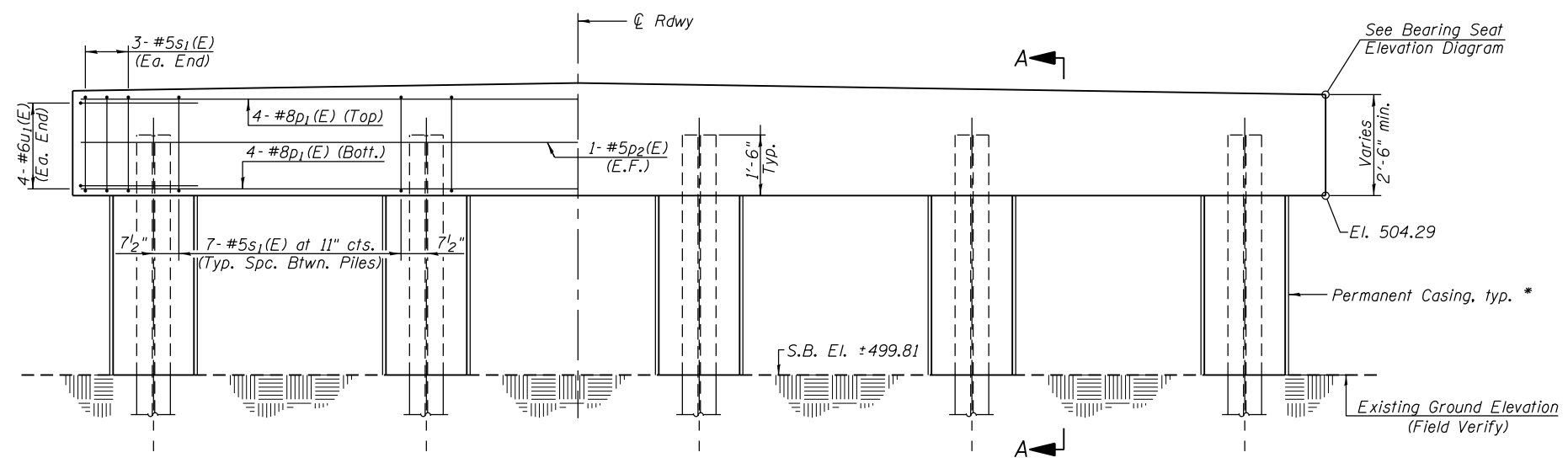
USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRK	REVISED -
	CHECKED - KES	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

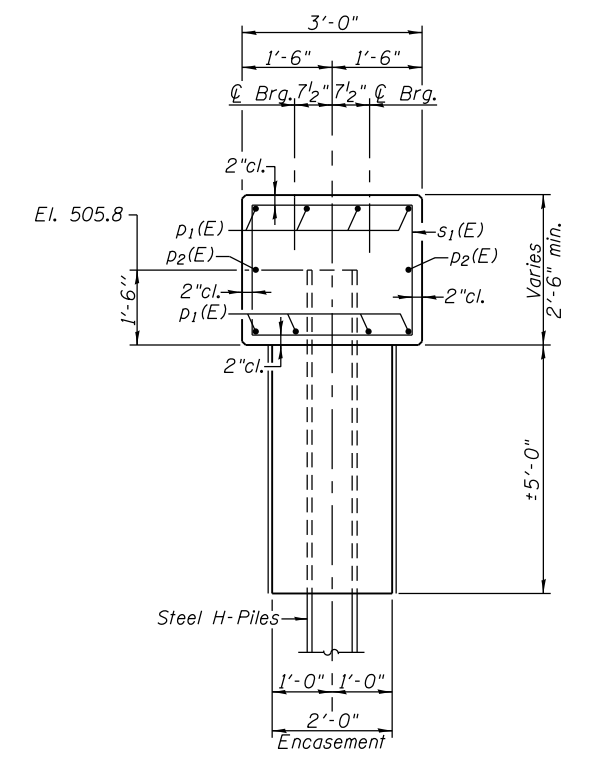
**NORTH ABUTMENT**  
**STRUCTURE NO. 032-7099**

SHEET NO. 13 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	34
			CONTRACT NO. 46902	
ILLINOIS FED. AID PROJECT				

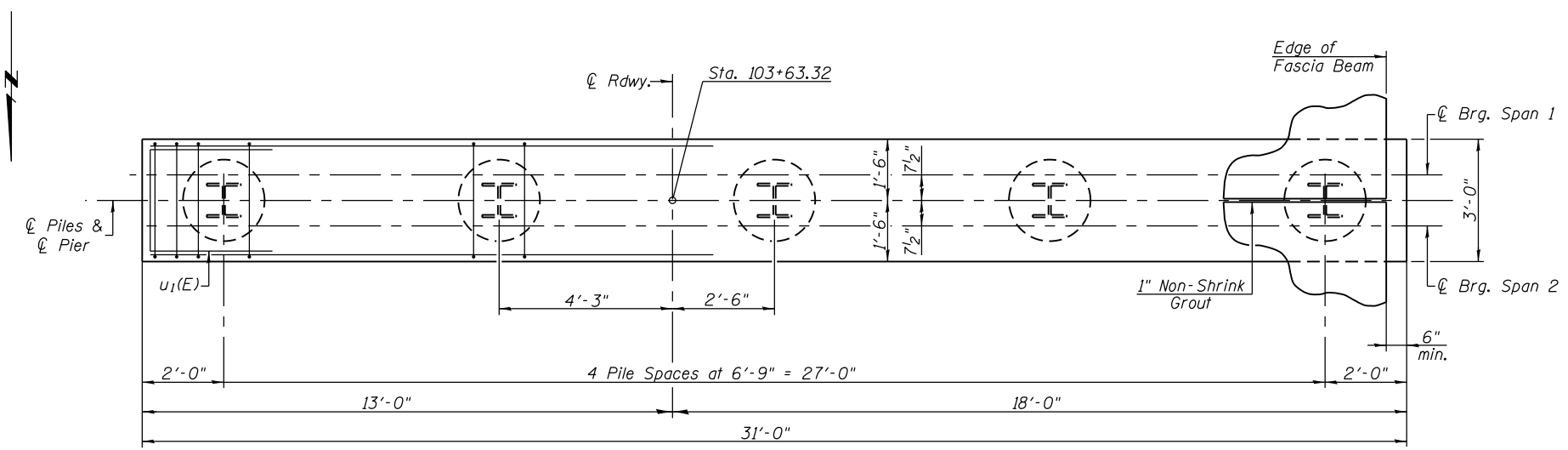


**ELEVATION**  
(Looking South)



**SECTION A-A**

\* The Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications. Pay limits for the permanent casing shall be based on the minimum length shown.



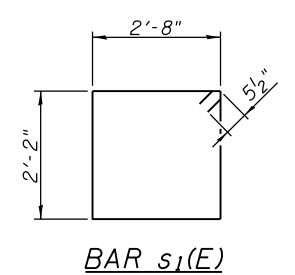
**PLAN**

**PILE DATA**

Type: HP 12x53  
 Nominal Required Bearing: 418 kips  
 Factored Resistance Available: 230 kips  
 Est. Length: 49 ft.  
 No. Production Piles: 5

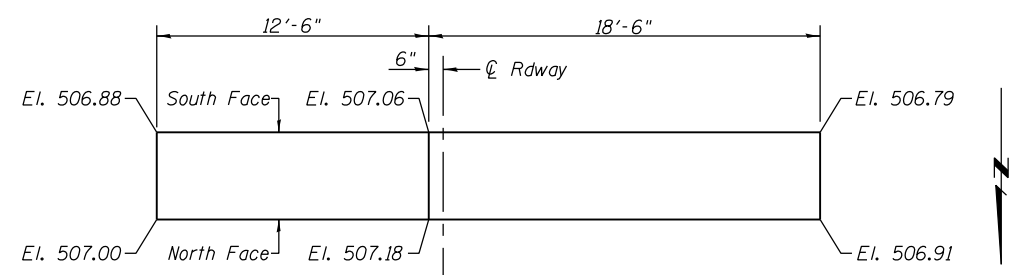
**PIER 1  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
p <sub>1</sub> (E)	8	#8	30'-8"	—
p <sub>2</sub> (E)	2	#5	30'-8"	—
s <sub>1</sub> (E)	34	#5	10'-7"	□
u <sub>1</sub> (E)	8	#6	10'-6"	□
Concrete Structures		Cu. Yd.	9.4	
Reinforcement Bars, Epoxy Coated		Pound	1220	
Furnishing Steel Piles, HP 12x53		Foot	245	
Driving Piles		Foot	245	
Concrete Encasement		Cu. Yd.	2.9	
Permanent Casing		Foot	25	



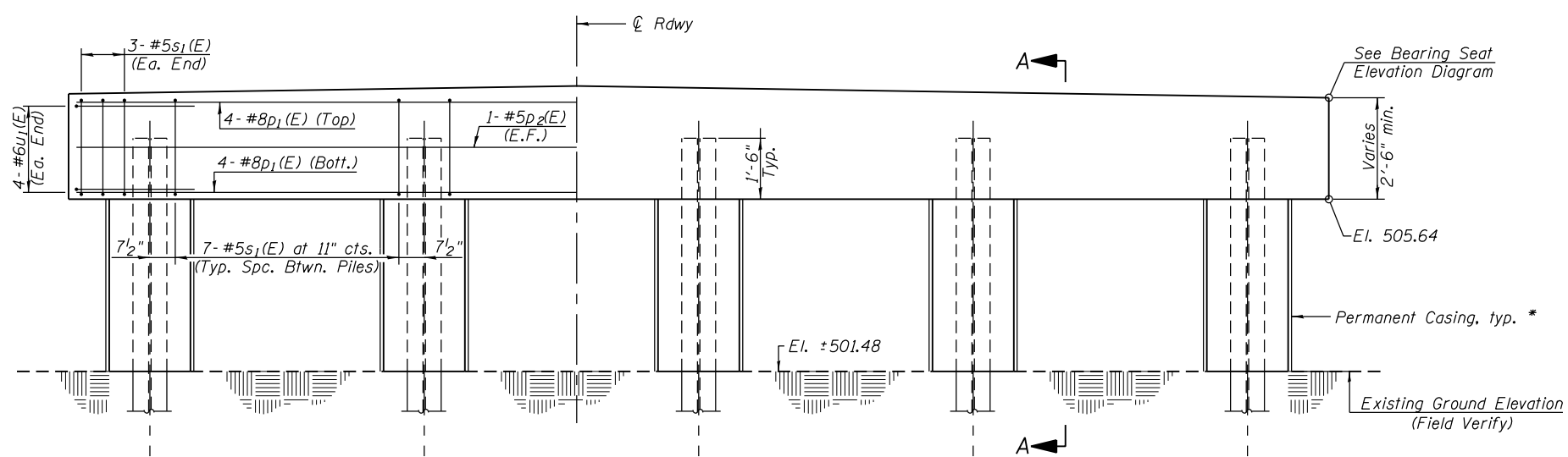
**BAR s<sub>1</sub>(E)**

**BAR u<sub>1</sub>(E)**

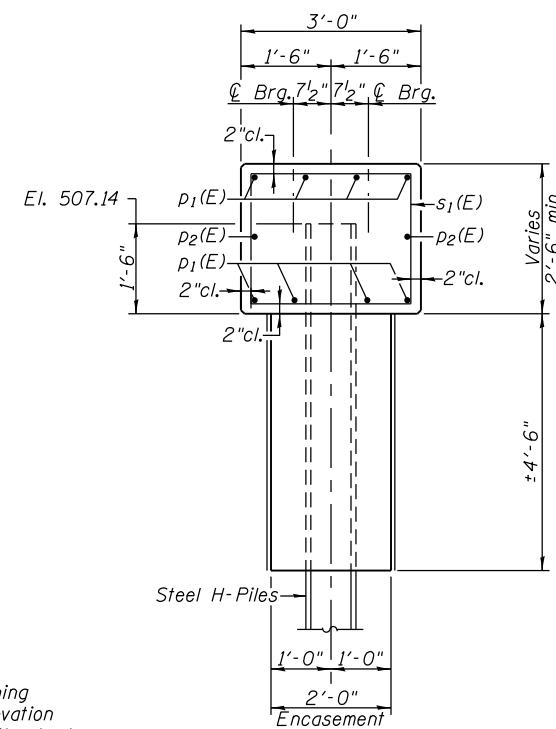


**BEARING SEAT ELEVATION DIAGRAM**

Notes:  
 All exposed edges shall have standard 3/4" chamfer.  
 Space reinforcement in cap to miss beam anchor dowels.  
 For details of Piles and Concrete Encasement, see Sheet 15 of 19.

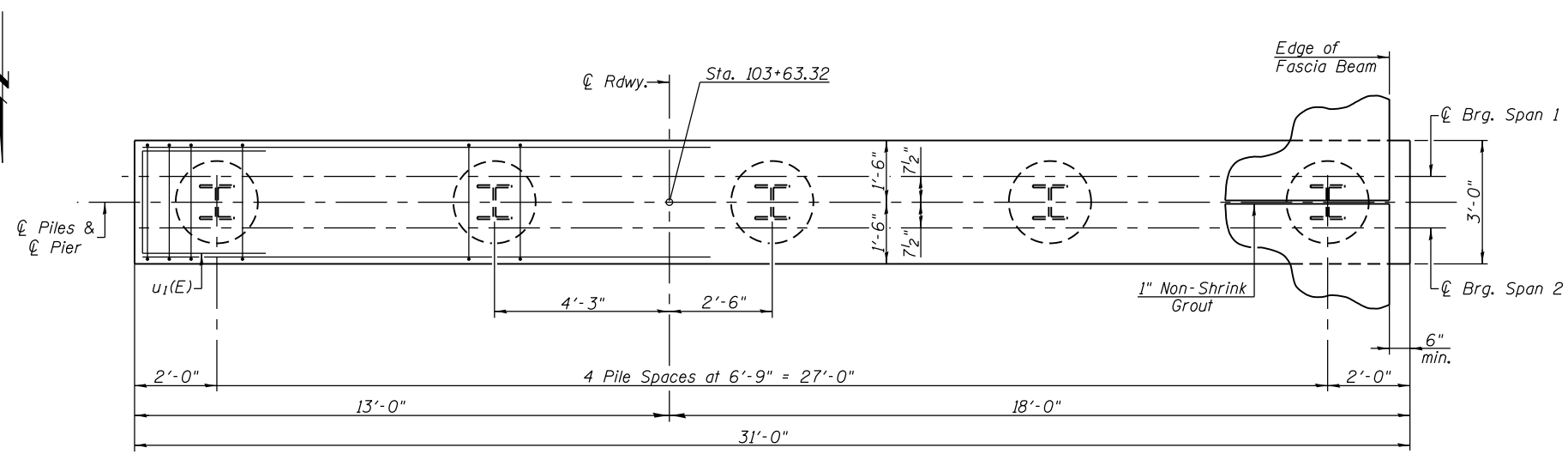


**ELEVATION**  
(Looking South)



**SECTION A-A**

\* The Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications. Pay limits for the permanent casing shall be based on the minimum length shown.



**PLAN**

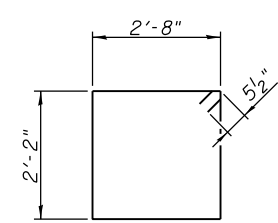
**PILE DATA**

Type:	HP 12x53
Nominal Required Bearing:	418 kips
Factored Resistance Available:	230 kips
Est. Length:	48 ft.
No. Production Piles:	5

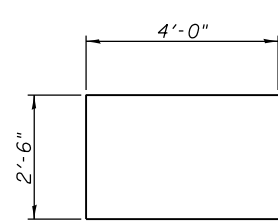
**PIER 2  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
p1(E)	8	#8	30'-8"	—
p2(E)	2	#5	30'-8"	—
s1(E)	34	#5	10'-7"	□
u1(E)	8	#6	10'-6"	□
Concrete Structures			Cu. Yd.	9.4
Reinforcement Bars, Epoxy Coated			Pound	1220
Furnishing Steel Piles, HP 12x53			Foot	240
Driving Piles			Foot	240
Concrete Encasement			Cu. Yd.	2.6
Permanent Casing			Foot	23

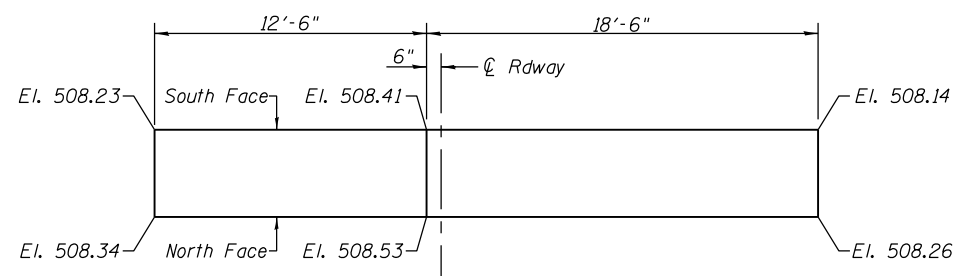
Notes:  
All exposed edges shall have standard 3/4" chamfer.  
Space reinforcement in cap to miss beam anchor dowels.  
For details of Piles and Concrete Encasement, see Sheet 15 of 19.



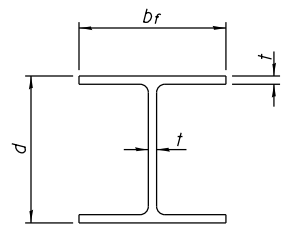
**BAR s1(E)**



**BAR u1(E)**

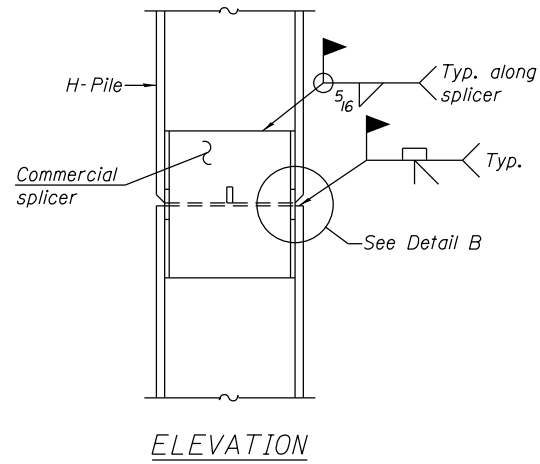


**BEARING SEAT ELEVATION DIAGRAM**

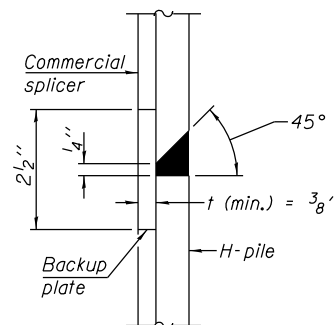


STEEL PILE TABLE

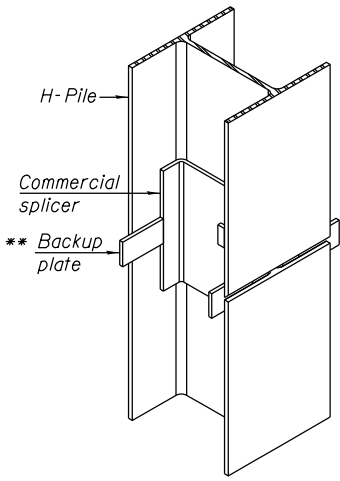
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

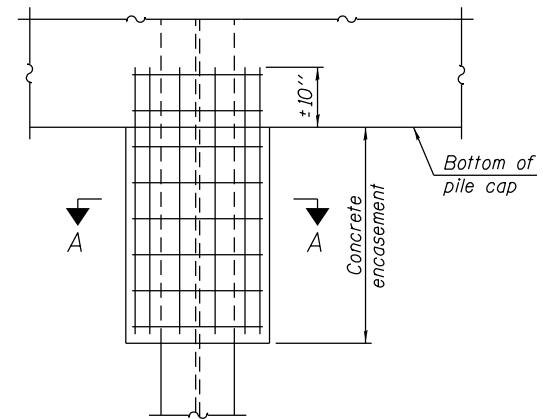


DETAIL "B"



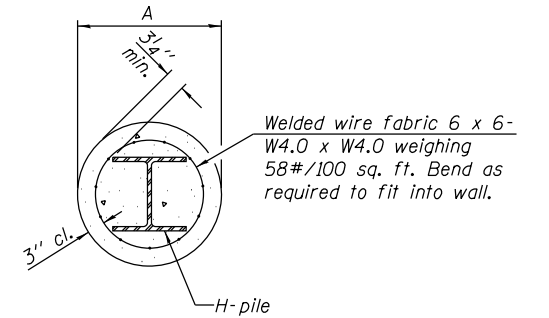
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



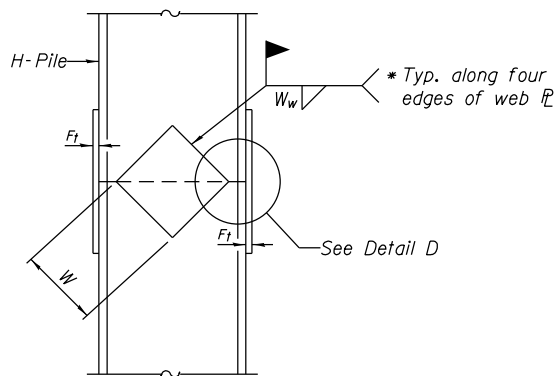
ELEVATION

PILE ENCASEMENT



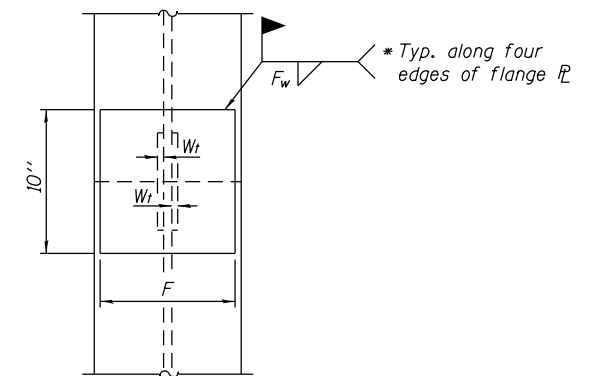
Note:  
Forms for encasement may be omitted when soil conditions permit.

SECTION A-A



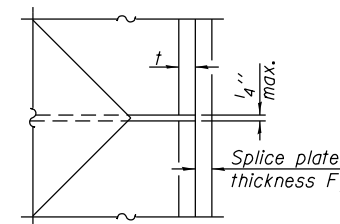
ELEVATION

WELDED PLATE FIELD SPLICE

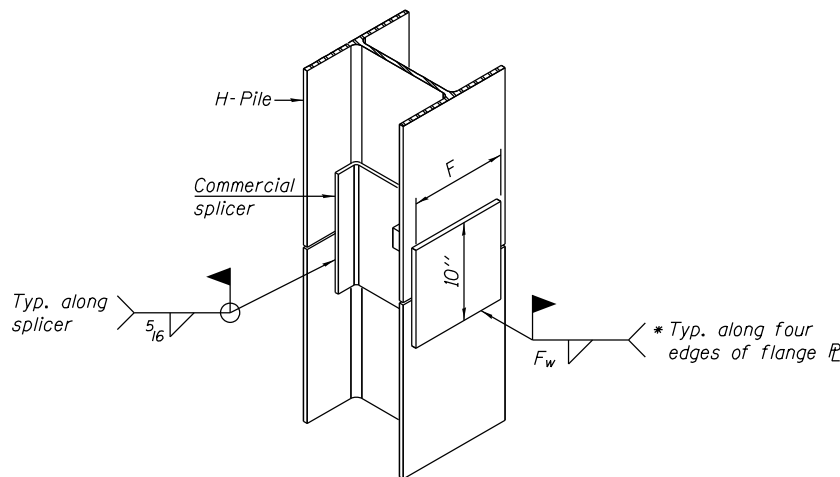


END VIEW

Designation	F	F <sub>t</sub>	F <sub>w</sub>	W	W <sub>t</sub>	W <sub>w</sub>
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"



DETAIL D

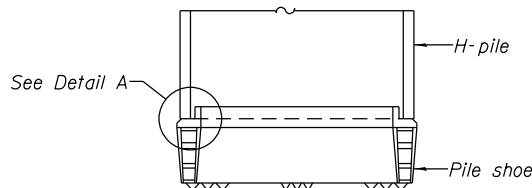


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

DETAIL A

H-PILE SHOE ATTACHMENT

F-HP 1-27-12



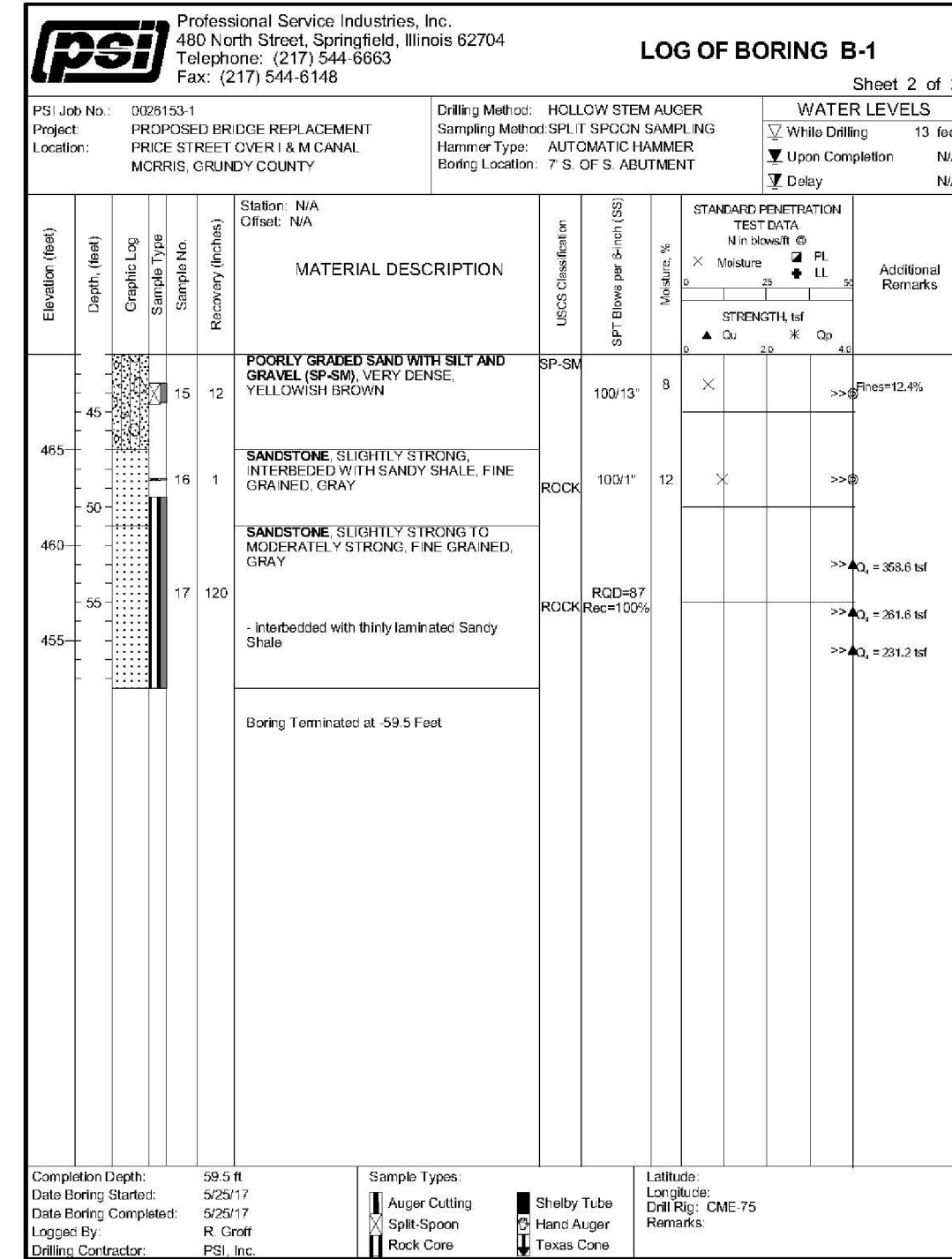
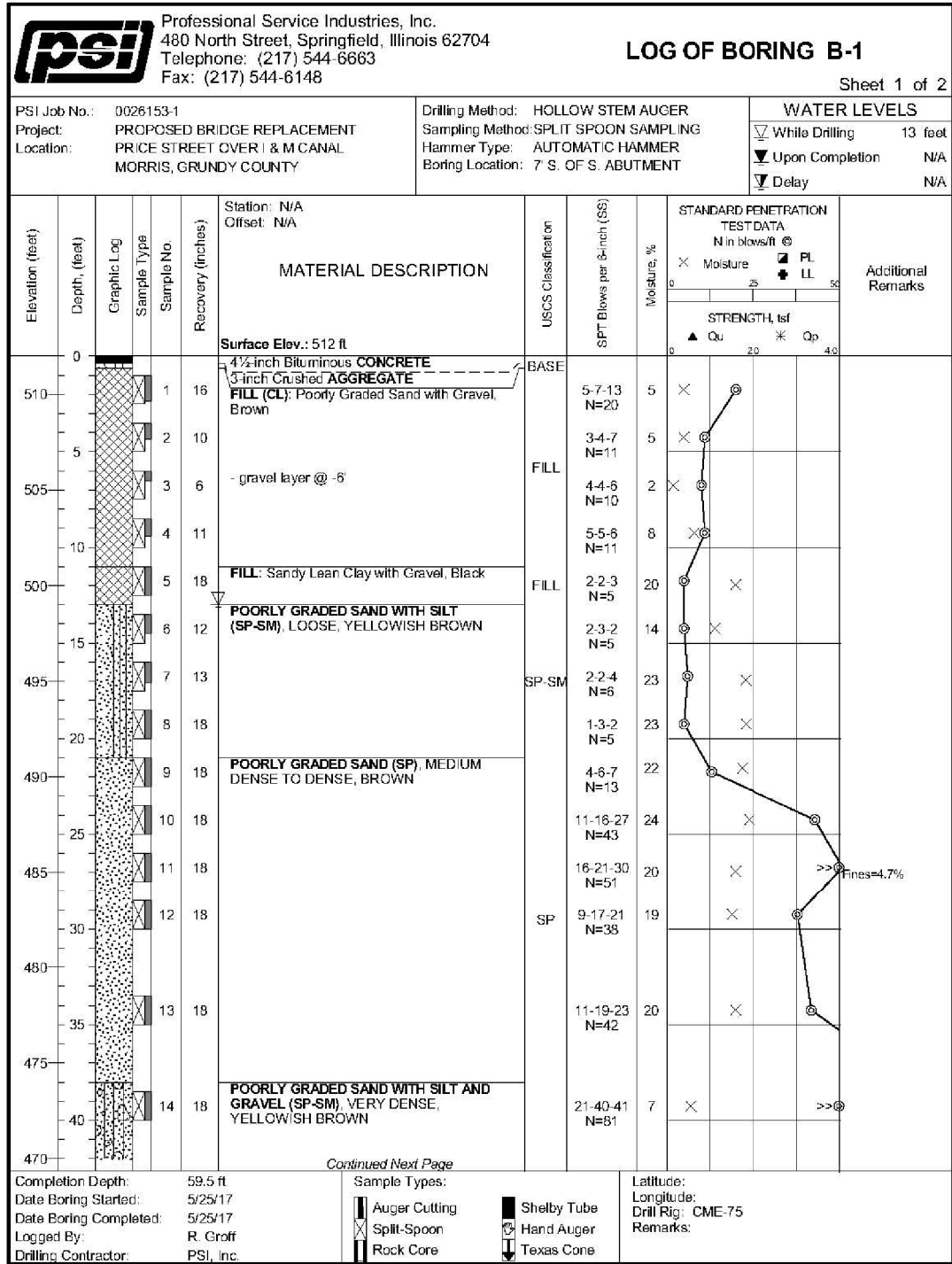
USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - KES	REVISED -

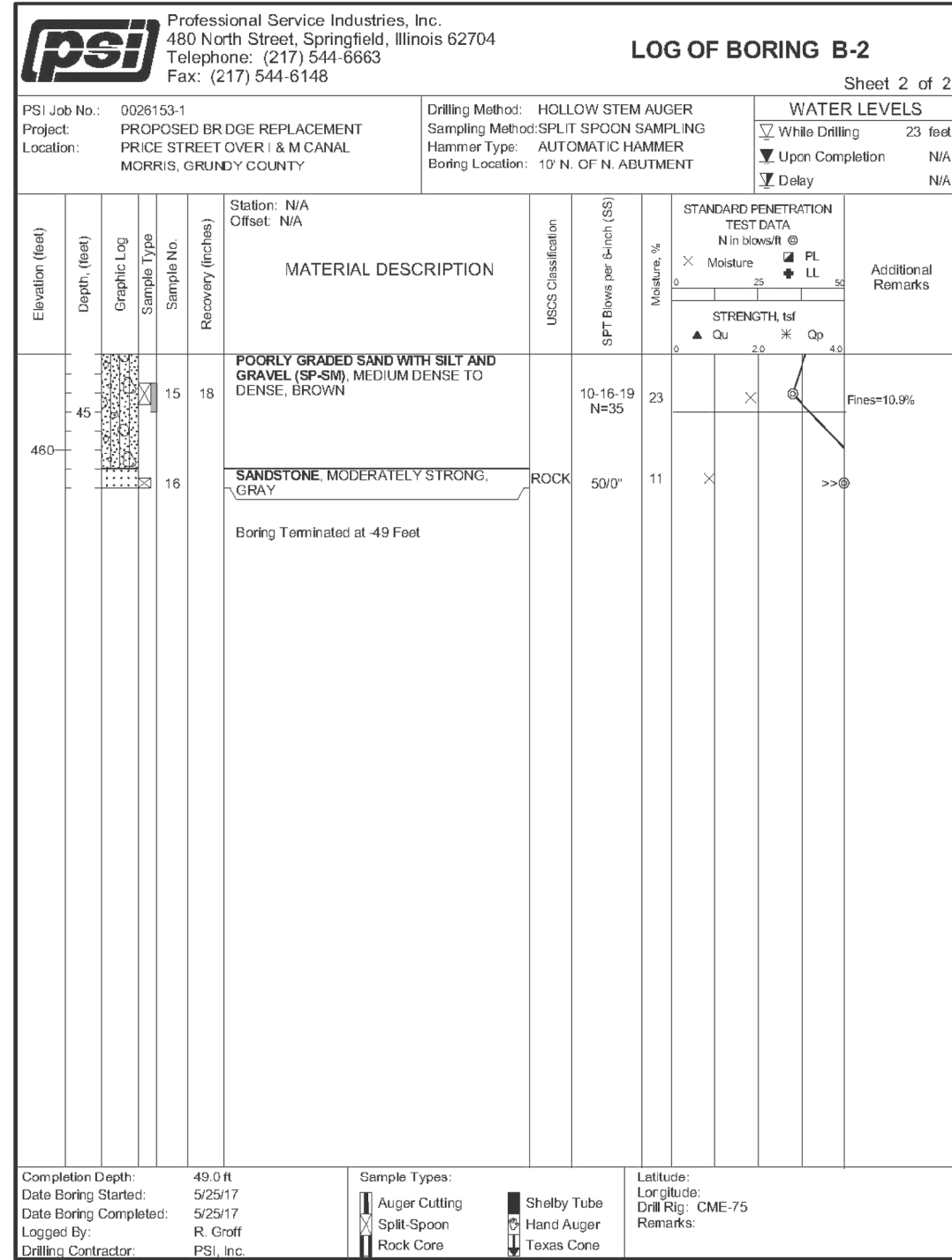
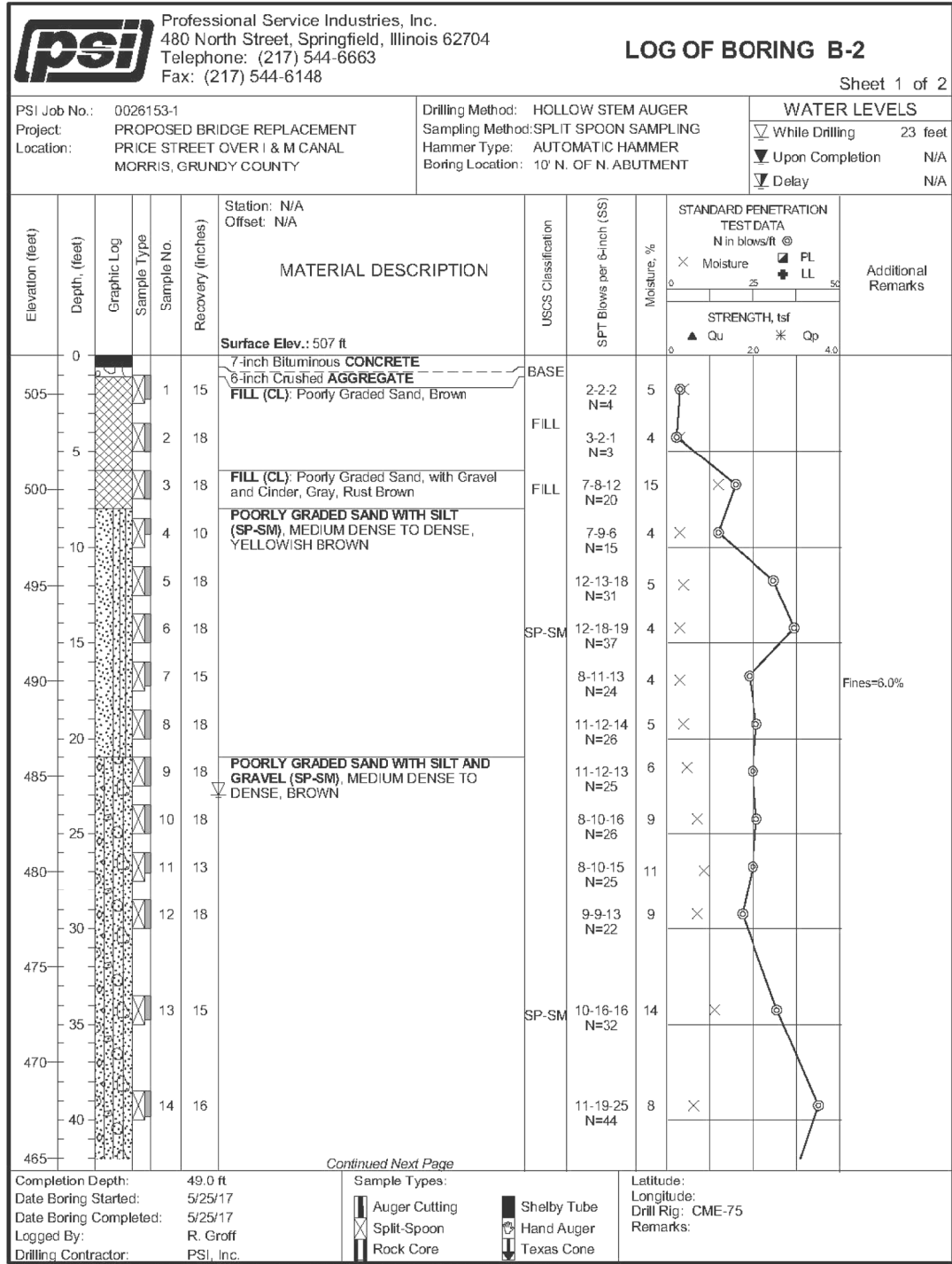
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS  
STRUCTURE NO. 032-7099

SHEET NO. 16 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	37
			CONTRACT NO. 46902	
ILLINOIS FED. AID PROJECT				



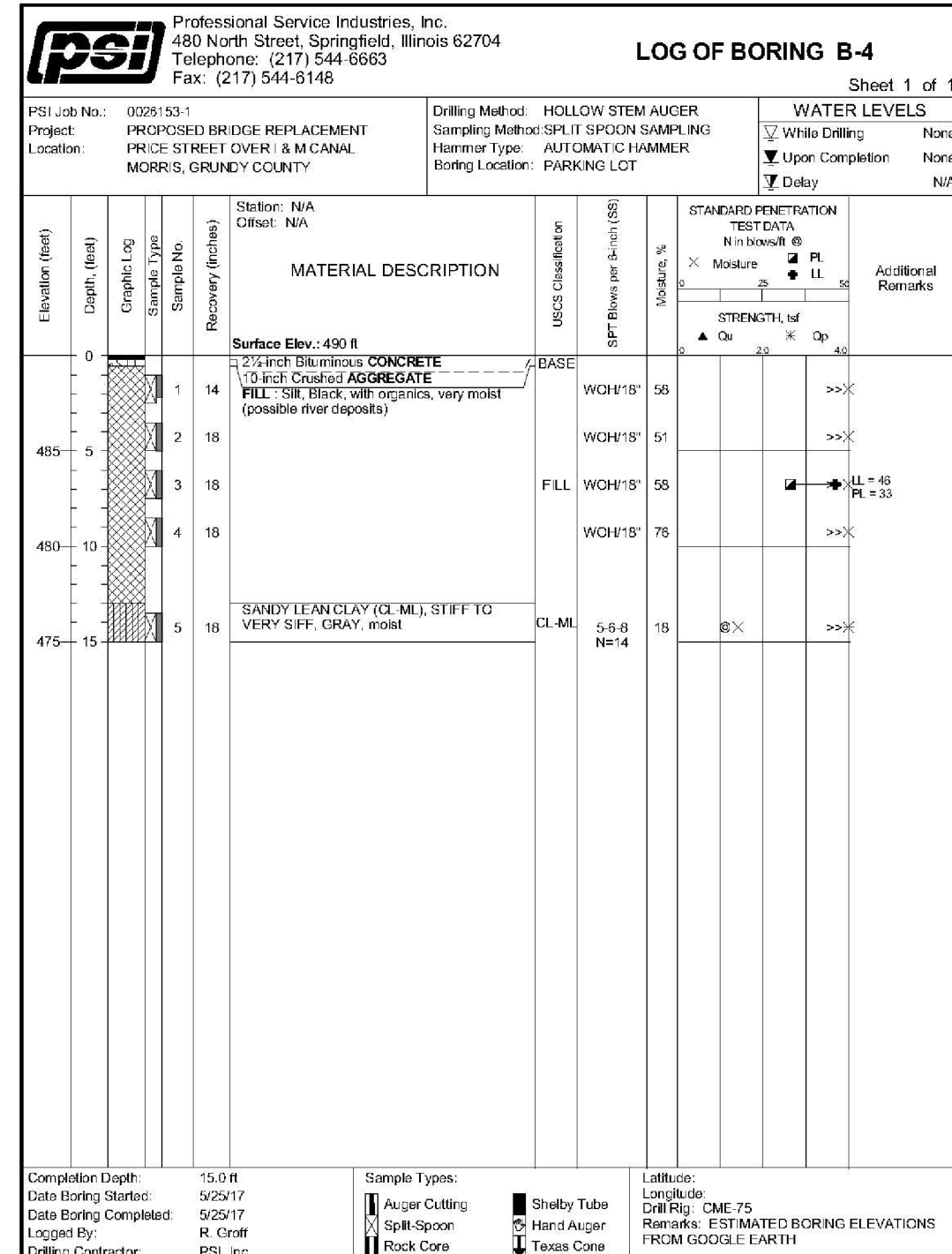
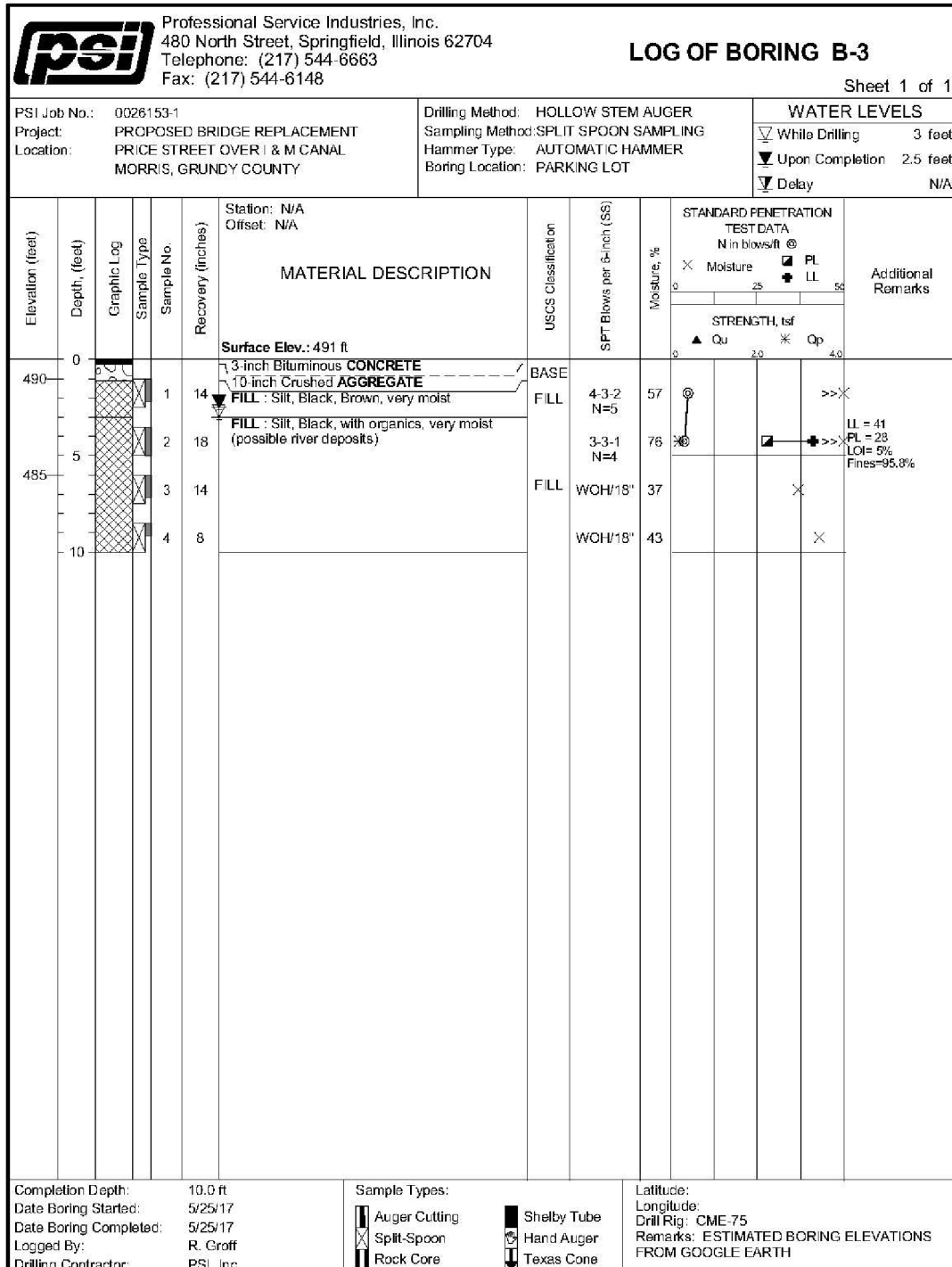


USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - KES	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORINGS	
SHEET NO. 18 OF 19 SHEETS	

F.A. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	39
CONTRACT NO. 46902				
ILLINOIS FED. AID PROJECT				



USER NAME =	DESIGNED - KES	REVISED -
	CHECKED - MAH	REVISED -
PLOT SCALE =	DRAWN - JRP	REVISED -
PLOT DATE =	CHECKED - KES	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORINGS

SHEET NO. 19 OF 19 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	40
CONTRACT NO. 46902				
ILLINOIS FED. AID PROJECT				

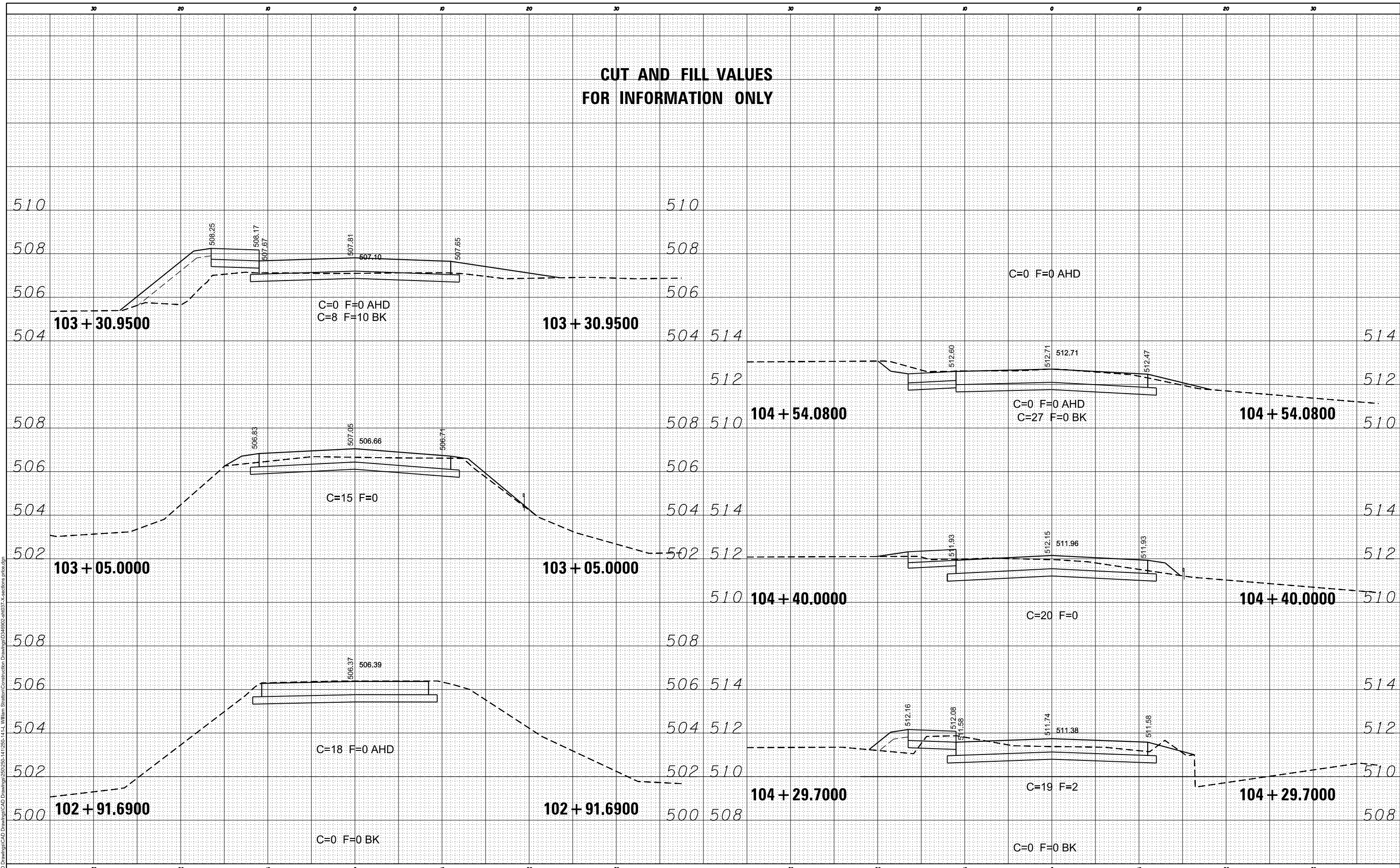


**CUT AND FILL VALUES  
FOR INFORMATION ONLY**

BY	DATE

BY	DATE

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS
	CHECKED



USER NAME = Connor Bell	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

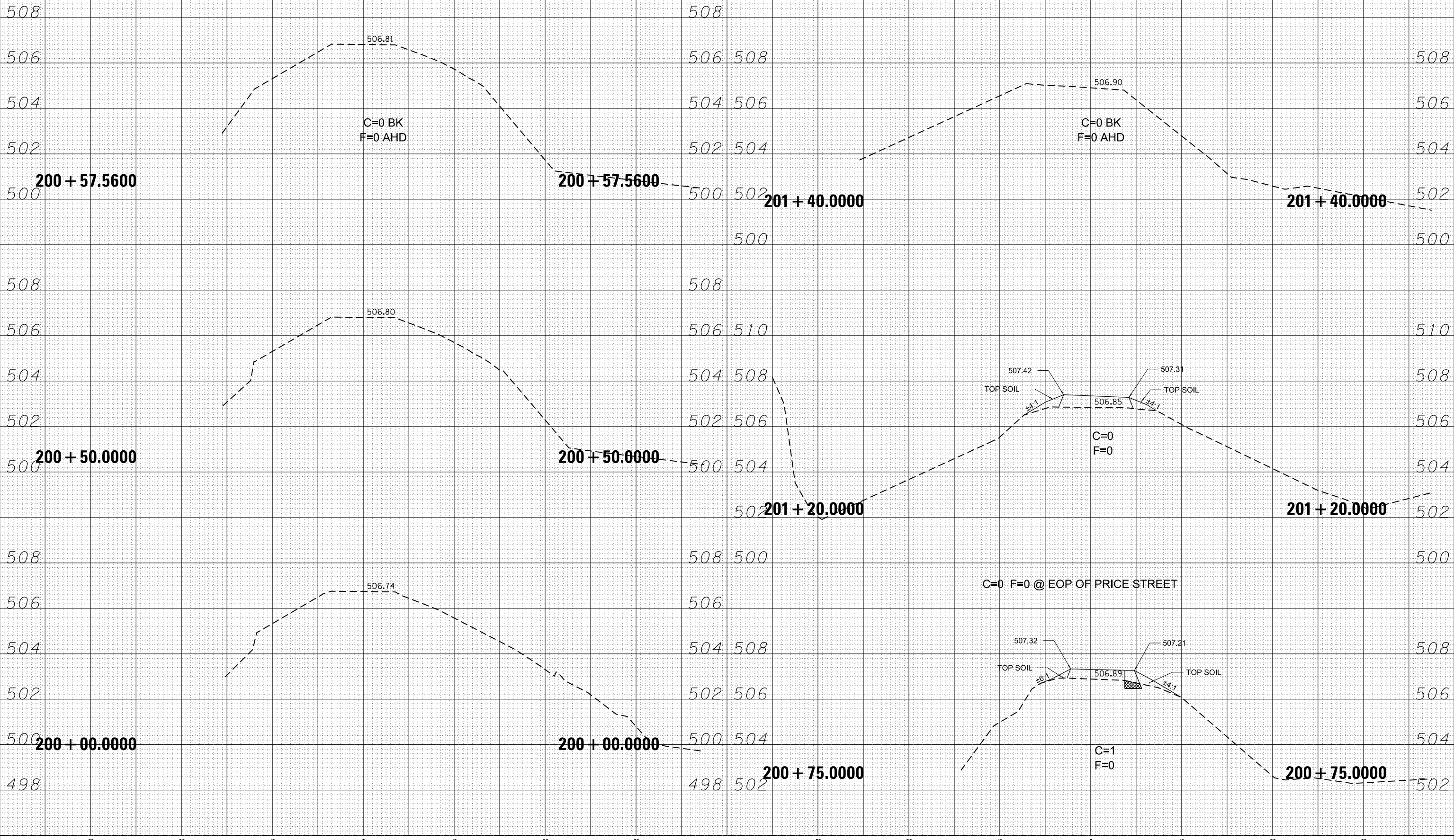
SCALE:	SHEET	OF	SHEETS	STA. 102+91.6900	TO STA. 104+54.0800
--------	-------	----	--------	------------------	---------------------

**PRICE STREET CROSS SECTIONS  
WILLIAM STRATTON STATE PARK**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	41
CONTRACT NO. 46902				
ILLINOIS FED. AID PROJECT				

MODEL: D:\milit  
 FILE NAME: S:\CAD Drawings\CAD Drawings\CAD Drawings\Construction Drawings\046902-am037-x-sections Price.dgn

**CUT AND FILL VALUES  
FOR INFORMATION ONLY**



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

MODEL: Default  
FILE NAME: S:\CAD Drawings\CAD Drawings\CAD Drawings\Construction Drawings\046902-am03b-x-sections blk.dgn

USER NAME = Connor Bell	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 2/14/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET	OF	SHEETS	STA. 200+00.0000 TO STA. 201+40.0000
--------	-------	----	--------	--------------------------------------

CANAL TOW PATH CROSS SECTIONS  
WILLIAM STRATTON STATE PARK

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STRATTON 2018	GRUNDY	42	42
CONTRACT NO. 46902				
ILLINOIS FED. AID PROJECT				