

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	1
		ILLINOIS	CONTRACT NO. 46928	

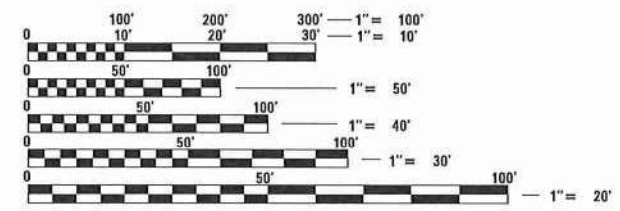
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS
RED HILLS STATE PARK
RED HILLS 2021
INTERNAL PARK ROADS
LAWRENCE COUNTY

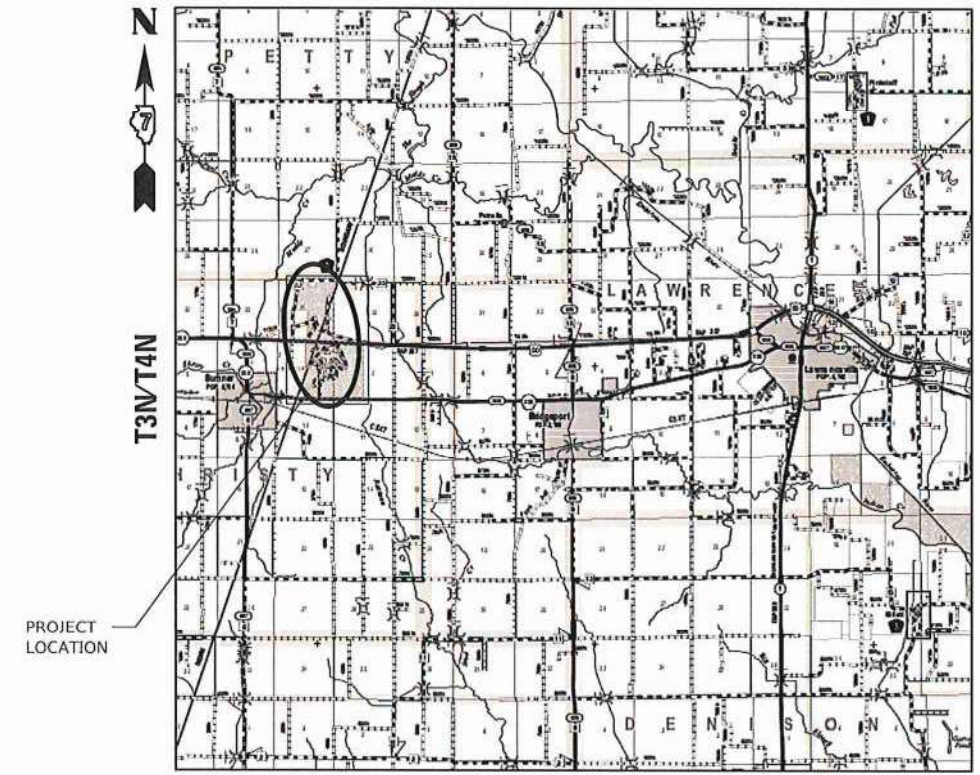
C-30-006-21
 IDNR PROJECT 5-020-033
 R12W/R13W

FOR LIST OF STANDARDS, SEE SHEET NO. 2



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 LOCATING INFORMATION FOR EXCAVATORS
 1-800-892-0123
 OR 811



LOCATION MAP
N.T.S.

GROSS LENGTH = 21,826.73 FT. = 4.134 MILES
 NET LENGTH = 21,826.73 FT. = 4.134 MILES

Farnsworth
 GROUP
 2211 W. BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED March 19, 2021 *SEA, ETK*
 REGIONAL ENGINEER

March 19, 2021 *SEA, ETK*
 ENGINEER OF DESIGN AND ENVIRONMENT

March 19, 2021 *Joseph G. Grimm*
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

LICENSED PROFESSIONAL ENGINEER
 JOSEPH G. GRIMM
 062-065119
 STATE OF ILLINOIS

Joseph G. Grimm 2/15/2021
 JOSEPH G. GRIMM, P.E.
 LICENSED PROFESSIONAL ENGINEER
 ILLINOIS NO. 062-065119 EXPIRES 11-30-21

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OF THE STATE OF ILLINOIS

PEN TABLE: IDOTSS4_Standard Project Pen.tbl
 PRINT DRIVER: IDOTSS4_R0_PDF_MONODRAWING
 SHEET FILE: J:\2021\169\169-013 Rev 1486 State Park04_Drawing\GIMM\CAD_Sheets\0746928_001_Cover_Sheet.dgn

GENERAL NOTES

- TREES THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AS INDICATED BY THE ENGINEER. ANY TREE DUE TO ITS LOCATION AND DEEMED SUITABLE FOR SAVING BY THE ENGINEER SHALL BE PROTECTED DURING CLEARING AND SUBSEQUENT CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST. TREE PROTECTION WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE WORK ITEM REQUIRING PROTECTION.
- EXISTING TREES AND TREE CANOPY SHALL BE PROTECTED/CLEARED ACCORDING TO ARTICLE 201 OF THE STANDARD SPECIFICATIONS. ANY BRANCHES BROKEN OR DAMAGED DURING CLEARING OR CONSTRUCTION OPERATIONS SHALL BE PRUNED ACCORDING TO ANSI A300 OR AS INDICATED BY IDNR STAFF/BIOLOGIST. PRUNING SHALL BE INCLUDED IN THE COST OF OTHER ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH PROJECT AREA AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE AS INDICATED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES AND SHALL BE LIABLE FOR ANY DAMAGE TO THEM RESULTING FROM THEIR OPERATIONS.
- THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.
- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- HORIZONTAL COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (1983).
- ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDED AS INDICATED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- WHEN EXISTING SIGNS TO BE REMOVED ARE TO BE REPLACED BY NEW SIGNS, THE NEW SIGNS SHALL BE COMPLETELY INSTALLED PRIOR TO THE REMOVAL OF THE EXISTING AND DUPLICATE SIGNS SHALL NOT EXIST FOR MORE THAN 24 HOURS.
- FULL DEPTH SAW CUTS SHALL BE PROVIDED AT ALL REMOVAL LIMITS UNLESS OTHERWISE SHOWN ON THE PLANS. ALL SAW CUTS, NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS, SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE CURRENT EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
- ALL BINDER COURSES SHALL RECEIVE A TACK COAT OF PRIME BEFORE THE SURFACE IS PLACED WHEN INDICATED BY THE ENGINEER.
- THE BASELINE SHOWN IN THE PLANS IS A "BEST FIT" ALIGNMENT OF THE CENTER OF THE EXISTING ROADWAY FOR THE PURPOSE OF STATIONING AND DETERMINING OFFSETS. IN MOST CASES IT DOES NOT REPRESENT THE PHYSICAL CENTERLINE OF THE ROADWAY.
- ILLINOIS STATE LAW REQUIRES A 48 HOUR NOTICE TO BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

BELOW ABOVE
GROUND GROUND

* FRONTIER COMMUNICATIONS
ATTN: KALIN HINSHAW
815-895-1515

* ILLINOIS GAS CO.
ATTN: DARLIN HOUCHIN
618-395-8588

X

* NORRIS ELECTRIC COOP
ATTN: TIM HUBER
618-783-8765

X

* NEW WAVE COMMUNICATIONS
ATTN: TOM TUCKER
812-895-7666

X

* SUMNER, CITY OF
ATTN: TERRY FISCUS
618-936-241

X

MEMBERS OF J.U.L.I.E. (800)-892-0123 ARE INDICATED BY *.
NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY. (NONE KNOWN)

COMMITMENTS

- NONE.

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS	701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
001001-02	AREAS OF REINFORCEMENT BARS	701301-04	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
001006	DECIMAL OF AN INCH AND OF A FOOT	701306-04	LANE CLOSURE 2L, 2W, SLOW MOVING OPERATIONS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS	701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS DAY ONLY
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS	701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
442201-03	CLASS C AND D PATCHES	701901-08	TRAFFIC CONTROL DEVICES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION	720001-01	SIGN PANEL MOUNTING DETAILS
606001-07	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER	720006-04	SIGN PANEL ERECTION DETAILS
630001-12	STEEL PLATE BEAM GUARDRAIL	725001-01	OBJECT AND TERMINAL MARKERS
630106-02	LONGSPAN GUARDRAIL OVER CULVERT	780001-05	TYPICAL PAVEMENT MARKINGS
631011-10	TRAFFIC BARRIER TERMINAL TYPE 2	782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY	814001-03	HANDHOLES
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE	BLR23-4	TRAFFIC BARRIER TERMINAL TYPE 1

RATES OF APPLICATION TABLE

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

AGGREGATE (SURFACE, BASE, SUBBASE OR BACKFILL).....	2.05 TON / CU YD
SUBBASE GRANULAR MATERIAL, TYPE B.....	2.05 TON / CU YD
HOT-MIX ASPHALT	
BITUMINOUS MATERIAL (TACK COAT) (ON EXIST PAVEMENT).....	0.05 LB / SQ FT
BITUMINOUS MATERIAL (TACK COAT) (ON HMA LIFTS).....	0.025 LB / SQ FT
BITUMINOUS MATERIAL (PRIME COAT) (AGGREGATE BASE).....	0.25 LB / SQ FT
HOT-MIX ASPHALT SURFACE/ BINDER (112 LB / SQ YD / IN).....	0.056 TON / SQ YD * IN
SEEDING AREAS:	
NITROGEN FERTILIZER NUTRIENT.....	90 LBS / ACRE
PHOSPHOROUS FERTILIZER NUTRIENT.....	90 LBS / ACRE
POTASSIUM FERTILIZER NUTRIENT.....	90 LBS / ACRE

HMA MIXTURE REQUIREMENTS TABLE

LOCATION	PARK ROADS AND PARKING LOTS	PARK ROADS AND PARKING LOTS
MIXTURE USE:	HMA LEVELING BINDER FG CSE LIFT	HMA SURFACE CSE LIFT
PG	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N _{DES} = 70	4.0% @ N _{DES} = 70
MIXTURE COMPOSITION (GRADATION)	IL 9.5 FG	IL 9.5
FRICTION AGGREGATE	N/A	MIX C
MIXTURE WEIGHT	112 LB / SQ YD / IN	112 LB / SQ YD / IN
QUALITY MANAGEMENT PLAN	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A

PEN TABLE: IDOTSSA_Standard Project Penetration
 DRIVER: 2211 BRADLEY AVENUE
 SHEET: CHAMPAIGN, ILLINOIS 61821
 FILE: 820103018018171720 - BDT.PTB 1865013 Red Hills State Park104_DrawingIDGNCD_GD_Sheet0746828_002 General Notes.dgn
 (217) 352-7408 / info@f-w.com



USER NAME = sbsanby	DESIGNED - WLB	REVISED
PLOT SCALE = 24,000' / in.	DRAWN - WLB	REVISED
PLOT DATE = 2/14/2021	CHECKED - JGG	REVISED
11:14:51 PM	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, HIGHWAY STANDARDS, COMMITMENTS
RED HILLS STATE PARK

SCALE: NO SCALE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	2
CONTRACT NO.			46928	
ILLINOIS		FED. AID PROJECT		

IDOTSS - Standard Project Pen-til
 PEN TABLE: IDOTSS - Standard Project Pen-til
 DRIVER: IDOTSS - Standard Project Pen-til
 SHEET: IDOTSS - Standard Project Pen-til
 FILE: J:\2010\101011717_20 - IDOT P1B 166-013 Red Hills State Park\04_Drawing\DCN\CD_03_SCC_01.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE	
				CONSTR. CODE	
				ROADWAY	
				0005	
20100110	TREE REMOVAL (6 TO 12 UNITS DIAMETER)	UNIT	99		99
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	242		242
20100500	TREE REMOVAL, ACRES	ACRE	0.32		0.32
20200100	EARTH EXCAVATION	CU YD	5,077		5,077
20700220	POROUS GRANULAR EMBANKMENT	CU YD	48		48
20800150	TRENCH BACKFILL	CU YD	271		271
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	149		149
21400100	GRADING AND SHAPING DITCHES	FOOT	942		942
25000210	SEEDING, CLASS 2A	ACRE	3.25		3.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	230		230
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	230		230
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	230		230
25100115	MULCH, METHOD 2	ACRE	3.25		3.25
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	256		256
28000305	TEMPORARY DITCH CHECKS	FOOT	550		550
28000400	PERIMETER EROSION BARRIER	FOOT	395		395

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE	
				CONSTR. CODE	
				ROADWAY	
				0005	
28000500	INLET AND PIPE PROTECTION	EACH	23		23
28100105	STONE RIPRAP, CLASS A3	SQ YD	163		163
28200200	FILTER FABRIC	SQ YD	124		124
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	221		221
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	1,188		1,188
35102400	AGGREGATE BASE COURSE, TYPE B 12"	SQ YD	149		149
35800100	PREPARATION OF BASE	SQ YD	6,528		6,528
35800200	AGGREGATE BASE REPAIR	TON	1,097		1,097
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	1,728		1,728
40300200	BITUMINOUS MATERIALS (PRIME COAT)	TON	3		3
40300400	BITUMINOUS MATERIALS (COVER AND SEAL COAT)	TON	51		51
40300500	COVER COAT AGGREGATE	TON	267		267
40300600	SEAL COAT AGGREGATE	TON	240		240
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	8,452		8,452
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	29,476		29,476
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	741		741

* SPECIALTY ITEM

REV. - MS



USER NAME = sllsanby	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
PLOT SCALE = 24,000' / 1"	CHECKED - JGG	REVISED
PLOT DATE = 2/14/2021 11:14:54 PM	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES RED HILLS STATE PARK		
SCALE: NO SCALE	SHEET 1 OF 4 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	3
CONTRACT NO.			46928	
ILLINOIS FED. AID PROJECT				

IDOTSS - Standard Project Pen-It
 PEN TABLE: 2211 BRADLEY AVENUE
 DRIVER: CHAMPAIGN, ILLINOIS 61821
 SHEET: (217) 352-7408 / info@fw.com

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE	
				CONSTR. CODE	
				ROADWAY	
		0005			
40600990	TEMPORARY RAMP	SQ YD	204	204	
40602970	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70	TON	3,057	3,057	
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	3,668	3,668	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6"	SQ YD	16	16	
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	3,680	3,680	
42400800	DETECTABLE WARNINGS	SQ FT	114	114	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	16	16	
44000300	CURB REMOVAL	FOOT	253	253	
44000600	SIDEWALK REMOVAL	SQ FT	1,673	1,673	
44201717	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	63	63	
44201721	CLASS D PATCHES, TYPE III, 6 INCH	SQ YD	201	201	
44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	382	382	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	639	639	
50105220	PIPE CULVERT REMOVAL	FOOT	1,240	1,240	
50200100	STRUCTURE EXCAVATION	CU YD	155	155	
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2	

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE	
				CONSTR. CODE	
				ROADWAY	
		0005			
54010803	PRECAST CONCRETE BOX CULVERT 8'X3'	FOOT	37	37	
542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	528	528	
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	256	256	
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	72	72	
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	96	96	
542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	40	40	
542C0213	PIPE CULVERT CLASS C, TYPE 1, 8"	FOOT	10	10	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	20	20	
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	14	14	
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	6	6	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	4	4	
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2	2	
54262712	METAL FLARED END SECTIONS 12"	EACH	2	2	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	58	58	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	253	253	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	237.5	237.5	
* 63000350	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	FOOT	38	38	

REV. - MS



USER NAME = sllsanby	DESIGNED - WLB	REVISED
DRAWN - WLB	CHECKED - JGG	REVISED
PLOT SCALE = 24,000' / 1"	DATE - 02/12/2021	REVISED
PLOT DATE = 2/14/2021 11:14:54 PM		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
RED HILLS STATE PARK**

SCALE: NO SCALE SHEET 2 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	4
CONTRACT NO. 46928				
ILLINOIS FED. AID PROJECT				

IDOTSS - Standard Project Pen Bid
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 SHEET: IDOTSS - Standard Project Pen Bid
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE	
				CONSTR. CODE	
				ROADWAY	
		0005			
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1	
* 63400105	GUARD POSTS	EACH	227	227	
67100100	MOBILIZATION	L SUM	1	1	
* 72000100	SIGN PANEL - TYPE 1	SQ FT	216	216	
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	56	56	
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	13	13	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	40	40	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5,546	5,546	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	105	105	
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	12	12	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1,845	1,845	
* 80400100	ELECTRICAL SERVICE INSTALLATION	EACH	1	1	
* 81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	1,581	1,581	
* 81300310	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 8" X 6" X 4"	EACH	12	12	
* 81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	2	2	
* 81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	5,126	5,126	

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE	
				CONSTR. CODE	
				ROADWAY	
		0005			
* 83600200	LIGHT POLE FOUNDATION 24" DIAMETER	EACH	42	42	
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	11	11	
X0301339	REMOVE EXISTING PARKING BLOCKS	EACH	181	181	
X0301430	PRECAST CONCRETE PARKING BLOCKS	EACH	231	231	
X0301852	DEWATERING STRUCTURE NO. 1	EACH	1	1	
X0323013	TUBULAR STEEL GATE	EACH	6	6	
* X0325789	INTERPRETIVE SIGNAGE COMPLETE	EACH	9	9	
X0325800	PARKING LOT SEAL COAT	SQ YD	2,583	2,583	
X0325868	REMOVE EXISTING TRAFFIC CONTROL DEVICES	L SUM	1	1	
X0327593	SMALL SIGN ENTRANCE	EACH	4	4	
X0327171	SCARIFY EXISTING SURFACE	SQ YD	3,978	3,978	
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	58	58	
X2110104	TOPSOIL FURNISH AND PLACE, 4" (SPECIAL)	SQ YD	11,959	11,959	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1,174	1,174	
X5010523	REMOVE CONCRETE END SECTION	EACH	2	2	
X6340205	GUARD POSTS REMOVAL	EACH	18	18	

REV. - MS

 Farnsworth GROUP 2215 BRADLEY AVENUE CHAMPAIGN, ILLINOIS 61821 (217) 352-7408 / info@f-w.com	USER NAME = slisanby DESIGNED - WLB DRAWN - WLB PLOT SCALE = 24,000' / 1" PLOT DATE = 2/14/2021 11:14:55 PM	REVISED REVISIONS CHECKED - JGG DATE - 02/12/2021	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES RED HILLS STATE PARK	F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. IDNR RED HILLS 2021 LAWRENCE 98 5 CONTRACT NO. 46928
	SCALE: NO SCALE SHEET 3 OF 4 SHEETS STA. TO STA.			(ILLINOIS) FED. AID PROJECT	

PEN TABLE: IDOTSSA_Standard Project Pen.tbl
 DRIVER: J:\2010\10161177_20 - IDOT.PTB 166-013 Red Hills State Park\04_Drawing\DCN\040_Sheet\0746928_006_SQC_04.dgn
 SHEET:

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE	
				CONSTR. CODE	
				ROADWAY	0005
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
* X7200075	REMOVE AND REINSTALL SIGN PANEL	SQ FT	14	14	
* X7200105	SIGN PANEL - TYPE 1 (SPECIAL)	SQ FT	9	9	
* X7300105	WOOD SIGN SUPPORT, SPECIAL	FOOT	679	679	
Z0012450	CONCRETE STEPS	CU YD	2	2	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
* X0321973	MODIFY EXISTING SERVICE INSTALLATION	EACH	4	4	
* X1400443	MODIFY CIRCUIT BREAKER PANEL (SPECIAL)	EACH	1	1	
* X0322708	REMOVE EXISTING STREET LIGHT EQUIPMENT	EACH	3	3	
* X0324390	FLOOD LIGHTING UNIT	EACH	4	4	
* X1400238	LUMINAIRE, LED, SPECIAL	EACH	27	27	
* X1400267	REMOVAL OF LIGHTING LUMINAIRE, NO SALVAGE	EACH	2	2	
* X1400397	RECEPTACLE OUTLET	EACH	8	8	
* X1400403	LUMINAIRE REPLACEMENT SPECIAL	EACH	14	14	
* X1400431	LIGHTING ASSEMBLY (SPECIAL)	EACH	16	16	

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE	
				CONSTR. CODE	
				ROADWAY	0005
* X2300007	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	1	1	
X2600033	CAMPSITE MARKER	EACH	146	146	

REV. - MS

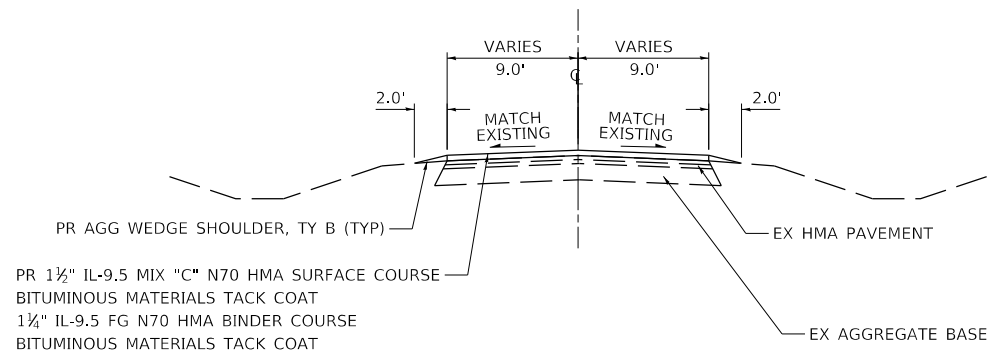


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PLOT DATE = 2/14/2021 11:14:56 PM	CHECKED - JGG	REVISED
	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

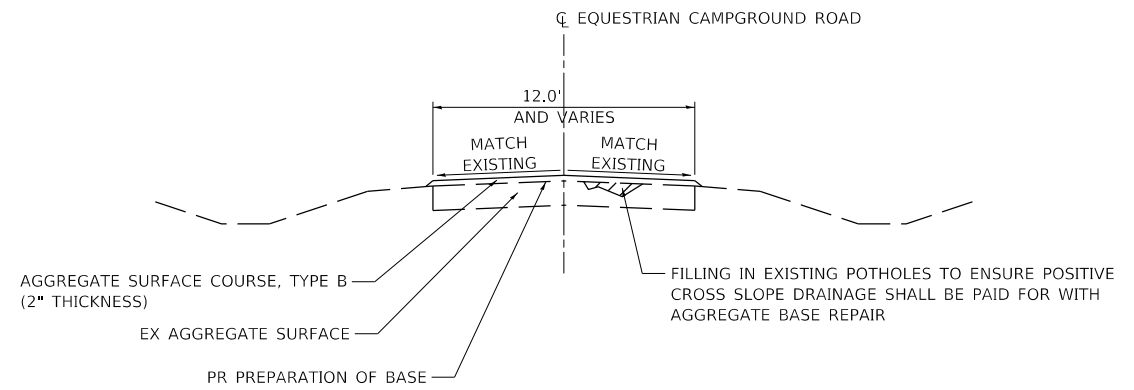
SUMMARY OF QUANTITIES RED HILLS STATE PARK		
SCALE: NO SCALE	SHEET 4 OF 4 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	6
			CONTRACT NO. 46928	
ILLINOIS FED. AID PROJECT				



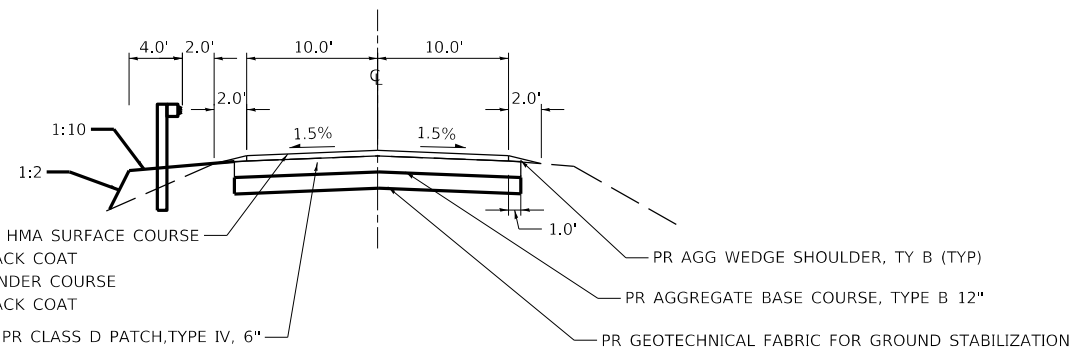
PROPOSED TYPICAL SECTION - PARK ROADS (HMA RESURFACING)

PARK ROADS HMA RESURFACING
STA. 120+00.00 TO 269+50.00



PROPOSED TYPICAL SECTION - PARK ROADS (AGGREGATE)

EQUESTRIAN CAMPGROUND

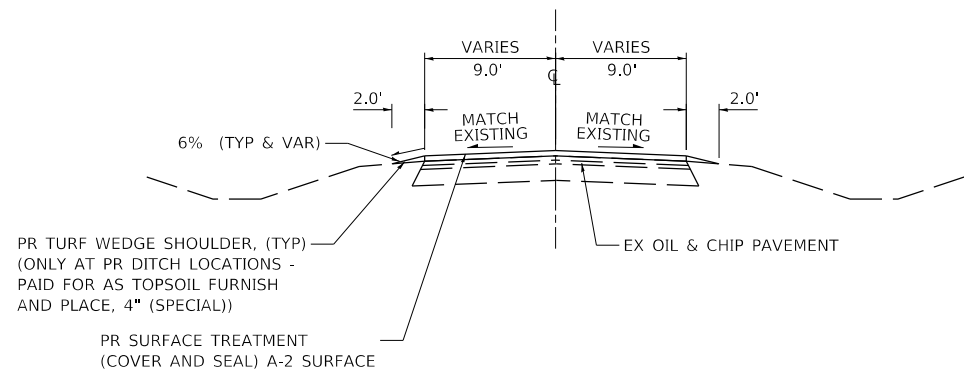


PROPOSED TYPICAL SECTION AT 8' X 3' BOX CULVERT

STA. 216+75 TO 217+36

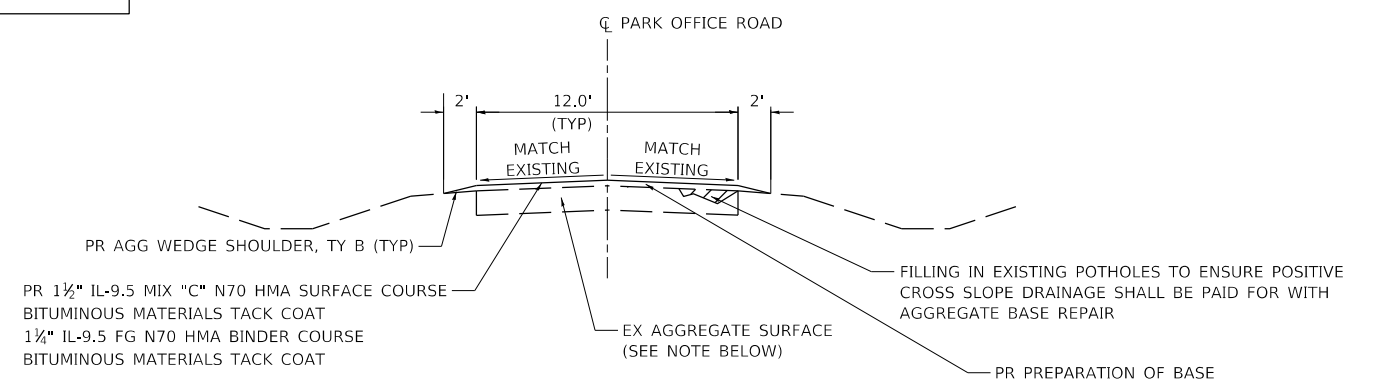
SEE CROSS SECTIONS FOR PROPOSED DITCH WORK AND DETAILS ON CAHOKIA TRACE FROM STA 21+40 LT TO 31+50 LT AND ON RED HILLS CROSS ROAD FROM STA 70+00 TO 101+75

SEE PLANS FOR PROPOSED GUARDRAIL AND RIPRAP LOCATIONS



PROPOSED TYPICAL SECTION - PARK ROADS (A-2 SURFACE TREATMENT)

PARK ROADS A-2 SURFACE TREATMENT
STA. 11+00.00 TO 38+50.00
STA. 50+00.00 TO 63+74.75
STA. 70+00.00 TO 115+01.47



PROPOSED TYPICAL SECTION - PARK OFFICE ROAD (HMA OVERLAY)

PARK OFFICE ROAD

SEE PLAN SHEETS FOR LOCATIONS OF PROPOSED EARTH EXCAVATION & AGG. BASE COURSE TYPE B, 8" IN WIDENING AREAS

PEN TABLE: DRIVER: SHEET: IDOTSSA_Standard Project Penetration Table
 FILE: \\s0101001\18171720 - DOT\PTB\186-013\Red Hills State Park\04_Drawing\DCN\CAD_Sheet\0746928_012 Typ\shk_02.dgn



USER NAME = s#sanby	DESIGNED - WLB	REVISED
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PLOT DATE = 2/14/2021	CHECKED - JGG	REVISED
11:14:59 PM	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS	
RED HILLS STATE PARK	
SCALE: N.T.S.	SHEET 2 OF 2 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	8
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	

AGGREGATE							
LOCATION	AGGREGATE SURFACE COURSE, TYPE B 6"	AGGREGATE SURFACE COURSE, TYPE B 8"	AGGREGATE SURFACE COURSE, TYPE B 12"	AGGREGATE SURFACE COURSE, TYPE B	COVER COAT AGGREGATE	SEAL COAT AGGREGATE	AGGREGATE WEDGE SHOULDER, TYPE B
DESCRIPTION	35101800 SQ YD	35102000 SQ YD	35102400 SQ YD	40200800 TON	40300500 TON	40300600 TON	48102100 TON
NORTH ROADS	STA. 11+00.00 TO 38+20.00						
	STA. 50+00.00 TO STA. 63+74.75						
	50+29.03 CT	10					
	55+42.06 CT	6					
	60+90.35 CT	7					
	63+49.26 CT	19					
	STA. 70+00.00 TO 103+10.03						
	80+00.00 ct	7					
	8600.00 ct	7					
	89+08.15 CT	7					
	96+83.43 CT	7					
STA. 110+00.00 TO 115+01.17							
SOUTH ROADS	STA. 120+70.17 TO 175+50.00						191
	156+53.66 CT	6					
	173+16.07 CT	8					
	STA. 180+00.00 TO 230+70.62						174
	194+83 RT/LT				9		
	200+45.10 CT	9					
	205+16.34 CT	9					
	211+09.72 CT	6					
	213+45.93 CT	7					
	216+75 TO 217+36 CT			149			
	STA. 217+08.84						
	STA. 250+00.00 TO 269+28.80						67
	266+40.00 LT	31					
	268+10.37 LT	16					
	268+16.98 RT	13					
	282+49.16 CT	5					
	286+47.28 CT	5					
STA. 280+00.00 TO 290+80.00		276					37
STA. 291+45.48 TO 291+64.67 LT				6			

PEN TABLE: IDOTSSZ_Standard Project Pen.tbl
 DRIVER: sjsanby
 SHEET: 8/20/2021 10:17:20 - IDOT PTS 186-013 Red Hills State Park04_DrawingIDGNCD_Sheet0746928_015 Schedule 01.dgn



USER NAME = sjsanby	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
PLOT SCALE = 24,000' / ft.	CHECKED - JGG	REVISED
PLOT DATE = 2/14/2021 11:15:01 PM	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NO SCALE		SHEET 1 OF 16 SHEETS	STA. TO STA.
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SCHEDULE OF QUANTITIES
RED HILLS STATE PARK

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	9
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	

AGGREGATE - CONTINUED

LOCATION	AGGREGATE SURFACE COURSE, TYPE B 6"	AGGREGATE SURFACE COURSE, TYPE B 8"	AGGREGATE SURFACE COURSE, TYPE B 12"	AGGREGATE SURFACE COURSE, TYPE B	COVER COAT AGGREGATE	SEAL COAT AGGREGATE	AGGREGATE WEDGE SHOULDER, TYPE B
DESCRIPTION	SQ YD	SQ YD	SQ YD	TON	TON	TON	TON
PARKING LOTS	US 250 ENTRANCE	6	32				7
	BASKETBALL COURT	21					2
	VOLLEYBALL COURT						9
	LAKESIDE SHELTER	9					18
	CAMP GROUND						95
	VETERANS POINT				52		17
	RESTAURANT						11
	TENT CAMPGROUND				28		3
	NORTH OF TENT CAMPGROUND						6
	NEW NORTHWIND PARKING		285				
	NEW RED HILLS CROSS LOOP PARKING		595		36		
NORTH CAMPGROUND	PARK OFFICE			19			2
	SITE 1			11			
	SITE 2			11			
	SITE 3			11			
	SITE 4			11			
	SITE 5			11			
	SITE 6			11			
	SITE 7			11			
	SITE 8			11			
	SITE 9			11			
	SITE 10			11			
	SITE 11			11			
	SITE 12			11			
	SITE 13			11			
	SITE 14			11			
	SITE 15			11			
	SITE 16			11			
	SITE 17			11			
	SITE 18			11			
	SITE 19			11			
	SITE 20			11			
	SITE 21			11			
	SITE 22			11			
	SITE 23			11			
	SITE 24			11			
	SITE 25			11			
SITE 26			11				

PEN TABLE: IDOTSSZ_Standard Project Pen.tbl
 DRIVER: sjs
 SHEET: 8/20/2021 10:17:20 - IDOT.PTB 186-013 Red Hills State Park04_DrawingIDGNCD_Sheet0746928_015 Schedule 02.dgn



USER NAME = sjsanby	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
PLOT SCALE = 24,000' / ft.	CHECKED - JGG	REVISED
PLOT DATE = 2/14/2021 11:15:02 PM	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
RED HILLS STATE PARK

SCALE: NO SCALE SHEET 2 OF 16 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	10
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	

AGGREGATE - CONTINUED

LOCATION	AGGREGATE SURFACE COURSE, TYPE B 6"	AGGREGATE SURFACE COURSE, TYPE B 8"	AGGREGATE SURFACE COURSE, TYPE B 12"	AGGREGATE SURFACE COURSE, TYPE B	COVER COAT AGGREGATE	SEAL COAT AGGREGATE	AGGREGATE WEDGE SHOULDER, TYPE B
	35101800	35102000	35102400	40200800	40300500	40300600	48102100
DESCRIPTION	SQ YD	SQ YD	SQ YD	TON	TON	TON	TON
SOUTH CAMPGROUND							
SITE 71				11			
SITE 72				11			
SITE 73				11			
SITE 74				11			
SITE 75				11			
SITE 76				11			
SITE 77				11			
SITE 78				11			
SITE 79				11			
SITE 80				11			
SITE 81				11			
SITE 82				11			
SITE 83				11			
SITE 84				11			
SITE 85				11			
SITE 86				11			
SITE 87				11			
SITE 88				11			
SITE 89				11			
SITE 90				11			
SITE 91				11			
SITE 92				11			
SITE 93				11			
SITE 94				11			
SITE 95				11			
SITE 96				11			
SITE 97				11			
SITE 98				11			
SITE 99				11			
SITE 100				11			
SITE 101				11			

PEN TABLE: IDOTSSZ_Standard Project Pen.tbl
 DRIVER: sjsanby
 SHEET: FILE: \\sjsanby\1865013\Red Hills State Park\04_Drawing\DCN\CD_Sheet\0746928_015 Schedule 04.dgn



USER NAME = sjsanby	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
PLOT SCALE = 24,000' / ft.	CHECKED - JGG	REVISED
PLOT DATE = 2/14/2021 11:15:04 PM	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
RED HILLS STATE PARK

SCALE: NO SCALE SHEET 4 OF 16 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	12
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	

AGGREGATE - CONTINUED

LOCATION	AGGREGATE SURFACE COURSE, TYPE B 6"	AGGREGATE SURFACE COURSE, TYPE B 8"	AGGREGATE SURFACE COURSE, TYPE B 12"	AGGREGATE SURFACE COURSE, TYPE B	COVER COAT AGGREGATE	SEAL COAT AGGREGATE	AGGREGATE WEDGE SHOULDER, TYPE B
DESCRIPTION	SQ YD	SQ YD	SQ YD	TON	TON	TON	TON
EQUESTRIAN CAMPGROUND	SITE 1			15			
	SITE 2			15			
	SITE 3			15			
	SITE 4			15			
	SITE 5			15			
	SITE 6			15			
	SITE 7			15			
CAMPGROUND ROAD				362			
NORTH ROADS	SHEET 1				72	65	
	SHEET 2				41	41	
	SHEET 3				37	33	
	SHEET 4				30	30	
	SHEET 5				43	36	
	SHEET 6				44	35	
TOTAL	221	1,188	149	1,728	267	240	639

PEN TABLE: IDOTSSZ_Standard Project Pen.tbl
 DRIVER: sjs
 SHEET: 8/20/2021 10:17:20 - IDOT.PTB 186-013 Red Hills State Park04_DrawingIDGNCCAD_Sheet0746928_015 Schedule 05.dgn



USER NAME = sjsanby	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
PLOT SCALE = 24,000' / ft.	CHECKED - JGG	REVISED
PLOT DATE = 2/14/2021 11:15:05 PM	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
RED HILLS STATE PARK

SCALE: NO SCALE SHEET 5 OF 16 SHEETS STA. TO STA.

F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	13
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	

SCHEDULE OF ELECTRICAL ITEMS										
LOCATION	80400100 ELECTRIC SERVICE INSTALLATION (EACH)	81028340 UNDERGROUND CONDUIT PVC, 1 1/2" DIA (FOOT)	81300310 JUNCTION BOX SS ATTACHED TO STRUCTURE 8" X 6" X 4" (EACH)	81400730 HANDHOLE, COMPOSITE CONCRETE (EACH)	81702120 ELECTRIC CABLE IN CONDUIT 600V (XLP/USE) 1/C NO. 8 (FOOT)	83600200 LIGHT POLE FOUNDATION 24" DIAMETER (FOOT)	84200600 REMOVAL OF LIGHTING UNIT, NO SALVAGE (EACH)	X0321973 MODIFY EXISTING SERVICE INSTALLATION (EACH)	X0322708 REMOVE EXISTING STREET LIGHTING EQUIPMENT (EACH)	X1400238 FLOOD LIGHTING UNIT (EACH)
74		131	1		417		1	1		
75		158	1		498					
76		199.5	2		622.5					
77		57	1		195	6		1	1	2
78		85	2		279		1	1		1
79		702	1	1	2274	30	7		1	
80		113	2		387					
81			1				1			
82		58	1	1	198		1			
83	1	77			255	6		1	1	1
TOTAL BID	1	1,581	12	2	5,126	42	11	4	3	4

PEN TABLE: IDOTSSZ_Standard Project Pen.tbl
 DRIVER: JGG
 SHEET: 8/20/2021 10:17:20 - IDOT.PTB 186-013 Red Hills State Park04_DrawingIDGNCAD_Sheet0746928_015 Schedule 07.dgn



USER NAME = jgrimm	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
PLOT SCALE = 24,000' / ft.	CHECKED - JGG	REVISED
PLOT DATE = 3/22/2021 4:48:57 PM	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES RED HILLS STATE PARK		SCALE: NO SCALE	SHEET 7 OF 16 SHEETS	STA. TO STA.

F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	15
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	

SCHEDULE OF ELECTRICAL ITEMS

LOCATION	X1400238 LUMINAIRE, LED SPECIAL	X1400267 REMOVAL OF LIGHTING LUMINAIRE NO SALVAGE	X1400397 RECEPTACLE OUTLET	X1400403 LUMINAIRE REPLACEMENT SPECIAL	X1400431 LIGHTING ASSEMBLY (SPECIAL)	MODIFY CIRCUIT BREAKER PANEL (SPECIAL)
SHEET #	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
74	1				1	
75			8	2		
76	2				2	
77	1				1	
78	1				1	
79	10				6	1
80	7	2		5	2	
81	1				1	
82	2			7	1	
83	2				1	
TOTAL BID	27	2	8	14	16	1

PEN TABLE: IDOTSSZ_Standard Project Pen.tbl
 DRIVER: JGG
 SHEET: 8/20/2021 10:17:20 - IDOT.PTB 186-013 Red Hills State Park04_DrawingIDGNCAD_Sheet0746928_015 Schedule 08.dgn



USER NAME = jgrimm	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
PLOT SCALE = 24,000' = 1"	CHECKED - JGG	REVISED
PLOT DATE = 3/22/2021 4:48:57 PM	DATE - 02/12/2021	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
RED HILLS STATE PARK**

SCALE: NO SCALE SHEET 8 OF 16 SHEETS STA. TO STA.

F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	16
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	

PAVEMENT														
LOCATION	PREPARATION OF BASE	AGGREGATE BASE REPAIR	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (COVER AND SEAL COAT)	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT MIX ASPHALT BINDER COURSE, 1L-9.5FG, N70	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	PCC DRIVEWAY PAVEMENT, 6"	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	DETECTABLE WARNINGS	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	PARKING LOT SEAL COAT	CONCRETE STEPS
DESCRIPTION	SQ YD	TON	TON	TON	POUND	POUND	TON	TON	SQ YD	SQ FT	SQ FT	FOOT	SQ YD	CU YD
NORTH SHEET 1	233	27	0.7	13.9						2,030				1.5
NORTH SHEET 2				8.3										
NORTH SHEET 3			0.4	7.1										
NORTH SHEET 4				6.1										
NORTH SHEET 5	189	21	0.8	8.0										
NORTH SHEET 6			0.9	8.0										
NORTHWIND SHELTER NEW PARKING		31												
NORTHWIND SHELTER EXISTING PARKING	319	36												
ASH GROVE PARKING	275	31								30				
RED HILLS CROSS SOUTH PARKING	301	34								30				
RED HILLS CROSS NORTH PARKING	297	34												
RED HILLS CROSS LOOP NEW PARKING		80												
120+70.17 TO 175+50.00						7,398	767	921						
180+00.00 TO 230+00.00						6,845	710	852						
217+00.84 TO 217+10.84						14	1	2						
250+00.00 TO 269+28.80						2,604	270	324						
280+00.00 TO 290+80.02		178			3,240	972	101	121						
SOUTH ROADS														
AREA SOUTH ROADS 1														
AREA SOUTH ROADS 2														
AREA SOUTH ROADS 3														
AREA SOUTH ROADS 4														
AREA SOUTH ROADS 5														
AREA SOUTH ROADS 6														
AREA SOUTH ROADS 7														
AREA SOUTH ROADS 8														
AREA SOUTH ROADS 9														
AREA SOUTH ROADS 10														
AREA SOUTH ROADS 11														
AREA SOUTH ROADS 12														
US 250 ENTRANCE PARKING		66			1,295	389	40	48						
BASKETBALL COURT PARKING	181	21			408	123	13	15						
VOLLEYBALL PARKING						531	55	66		60				
LAKESIDE SHELTER PARKING						1,033	107	129		84				
BOAT RAMP PARKING													2,583	
VETERANS POINT PARKING						1,152	119	143		172				
VETERANS POINT TO CAMPGROUND										140	14			
NORTH OF TENT CAMPING PARKING						345	36	43		33	6			
TENT CAMPING PARKING	329	37			740	222	23	28						
CAMPGROUND PARKING						304	32	38						
CAMPGROUND NORTH						1,407	146	175		187.5	36			
CAMPGROUND SOUTH						3,039	315	378		155				
PARK OFFICE	1,221	139			2768	831	86	103						
RESTAURANT PARKING						2,268	235	282	16	758	58	253		
EQUESTRIAN ROAD	3,183	362												
TOTAL	6,528	1,097	2.8	51.4	8,452	29,476	3,057	3,668	16	3,680	114	253	2,583	1.5

PEN TABLE: DRIVER: FARNSWORTH GROUP
 FILE: 82010318177201-0101-015-SchedRes-11.dgn
 STATE PARKS DISTRICT 1166-013 Red Hills State Park 04_DrawingDCNCGD_Sheet0746828_015 SchedRes 11.dgn



USER NAME = s#sanby	DESIGNED - WLB	REVISED
PLOT SCALE = 24,000' / 1"	DRAWN - WLB	REVISED
PLOT DATE = 2/14/2021 11:51:11 PM	CHECKED - JGG	REVISED
	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
RED HILLS STATE PARK

SCALE: NO SCALE SHEET 11 OF 16 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	19
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	

SIGNAGE											SIGN PANEL TYPE 1	REMOVE SIGN PANEL ASSEMBLY - TYPE A	REMOVE SIGN PANEL - TYPE	INTERPRETIVE SIGNAGE COMPLETE	SMALL SIGN ENTRANCE	REMOVE AND REINSTALL SIGN PANEL	SIGN PANEL TYPE 1 (SPECIAL)	WOOD SIGN SUPPORT SPECIAL	CAMPSITE MARKER
STATION	OFFSET	MUTCD#	CUSTOM	WIDTH (INCHES)	HEIGHT (INCHES)	SIGN DESCRIPTION	SQ FT	EACH	SQ FT	EACH	EACH	SQ FT	FOOT	EACH					
NORTH OF TENT CAMPING PARKING																			
		R7-8		12	18	ADA ACCESSIBLE (R7-8)	1.5	1						11.5					
		R7-1101		6	12	\$250 FINE (R7-1101)	0.5												
TENT CAMPING																			
		R8-3a		18	24	NO PARKING (R8-3a)	3	1						12					
		R8-3a		18	24	NO PARKING (R8-3a)	3	1						12					
VETERANS POINT																			
		R7-8		12	18	ADA ACCESSIBLE (R7-8)	1.5	1						11.5					
		R8-3a		18	24	NO PARKING ON GRASS (R8-3a)	3	1						12					
		R7-8		12	18	ADA ACCESSIBLE (R7-8)	1.5	1						11.5					
				12	24	RED HILLS STATE PARK FISHING REGULATIONS						3							
OFFICE PARK ROAD																			
				18	24	NO THRU TRAFFIC	3	1						12					
CAMPGROUND ROAD AND MAIN ROAD																			
		R1-1		30	30	STOP (R1-1)	6.3	1						12.5					
		R2-1		30	30	SPEED LIMIT 25 (R2-1)	5	1						12.5					
CAMPGROUND																			
				30	30	SPEED BUMP AHEAD		1											
				30	24	CAMPGROUND RULES						5							
		R2-1		30	30	SPEED LIMIT 10 (R2-1)	5	1						12.5					
		R2-1		30	30	SPEED LIMIT 10 (R2-1)	5	1						12.5					
		R2-1		30	30	SPEED LIMIT 10 (R2-1)	5	1	5					12.5					
		R2-1		30	30	SPEED LIMIT 10 (R2-1)	5	1						12.5					
		R1-1		30	30	STOP (R1-1)	6.3	1						12.5					
		R9-8		36	30	CROSSWALK WARNING	6.3	1						12.5					
		W11-2		30	30	PEDESTRIAN	6.3	1						12.5					
		R1-1		30	30	STOP (R1-1)	6.3	1						12.5					
		R7-8		12	18	ADA ACCESSIBLE (R7-8)	1.5	1						11.5					
		R7-1101		6	12	\$250 FINE (R7-1101)	0.5												
		TYPE 1		18	24	VISITOR PARKING (TYPE 1)		1				3		12					
		R5-1		30	30	DO NOT ENTER (R5-1)	6.3	1						12.5					
		R7-8		12	18	ADA ACCESSIBLE (R7-8)	1.5	1						11.5					
		R7-1101		6	12	\$250 FINE (R7-1101)	0.5												
		TYPE 1		18	24	VISITOR PARKING (TYPE 1)		1				3		12					
		R8-3a		18	24	NO PARKING (R8-3a)		1						12					
		R7-8		12	18	ADA ACCESSIBLE (R7-8)	1.5	1						11.5					
		R7-1101		6	12	\$250 FINE (R7-1101)	0.5												
		R8-3a		18	24	NO PARKING (R8-3a)	3	1						12					
		R7-8		12	18	ADA ACCESSIBLE (R7-8)	1.5	1						11.5					
		R5-1		30	30	DO NOT ENTER (R5-1)	6.3	1						12.5					
		W14-1		30	30	DEAD END (W14-1)	4	1						12.2					
		TYPE 1		18	24	VISITOR PARKING (TYPE 1)		1				3		12					
CAMPSITE MARKERS																			
						CAMPSITE NUMBERS								105					
						EQUESTRIAN NUMBERS								11					
						ADDITIONAL 30								30					
						EQUESTRIAN ENTRANCE					1								
						LAKESIDE SHELTER ENTRANCE					1								
						NORTHWIND SHELTER ENTRANCE					1								
						BOAT RAMP					1								
						INTERPRETIVE SIGNAGE COMPLETE - SEE DETAIL				9									
TOTAL							216	56	13	9	4	14	9	679	146				

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	DRAWN - WLB	REVISED
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

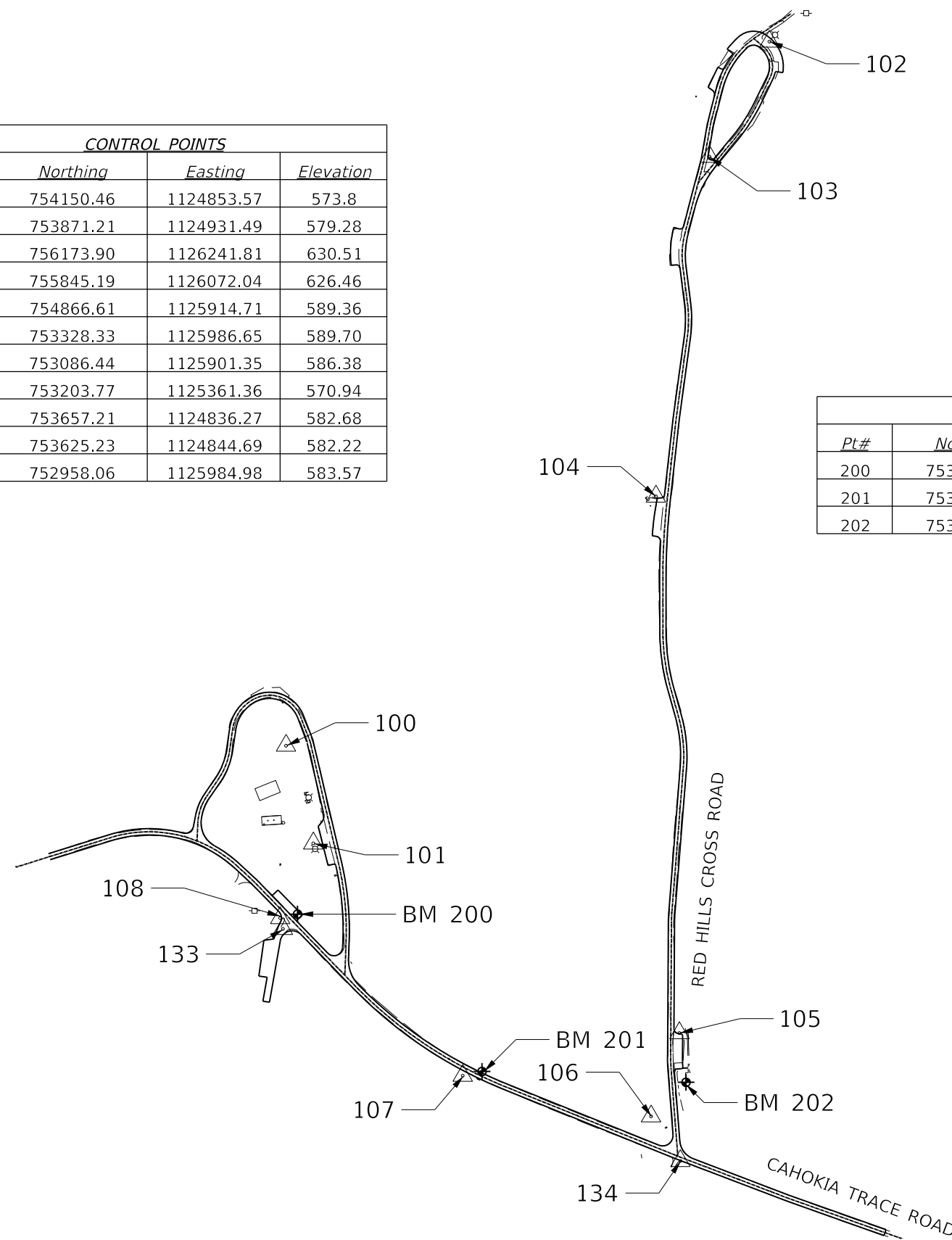
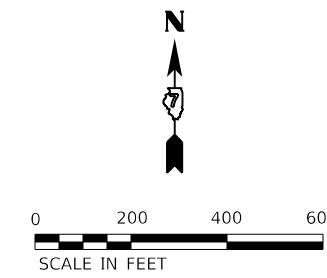
**SCHEDULE OF QUANTITIES
RED HILLS STATE PARK**

SCALE: NO SCALE SHEET 16 OF 16 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	24
CONTRACT NO. 46928			ILLINOIS FED. AID PROJECT	

CONTROL POINTS			
Pt#	Northing	Easting	Elevation
100	754150.46	1124853.57	573.8
101	753871.21	1124931.49	579.28
102	756173.90	1126241.81	630.51
103	755845.19	1126072.04	626.46
104	754866.61	1125914.71	589.36
105	753328.33	1125986.65	589.70
106	753086.44	1125901.35	586.38
107	753203.77	1125361.36	570.94
108	753657.21	1124836.27	582.68
133	753625.23	1124844.69	582.22
134	752958.06	1125984.98	583.57

BENCHMARKS			
Pt#	Northing	Easting	Elevation
200	753667.59	1124885.72	583.61
201	753215.70	1125415.62	571.39
202	753184.59	1126001.76	590.07



PEN TABLE: IDOTSSZ_Standard Project Pen.tbl
 DRIVER: sjsanby
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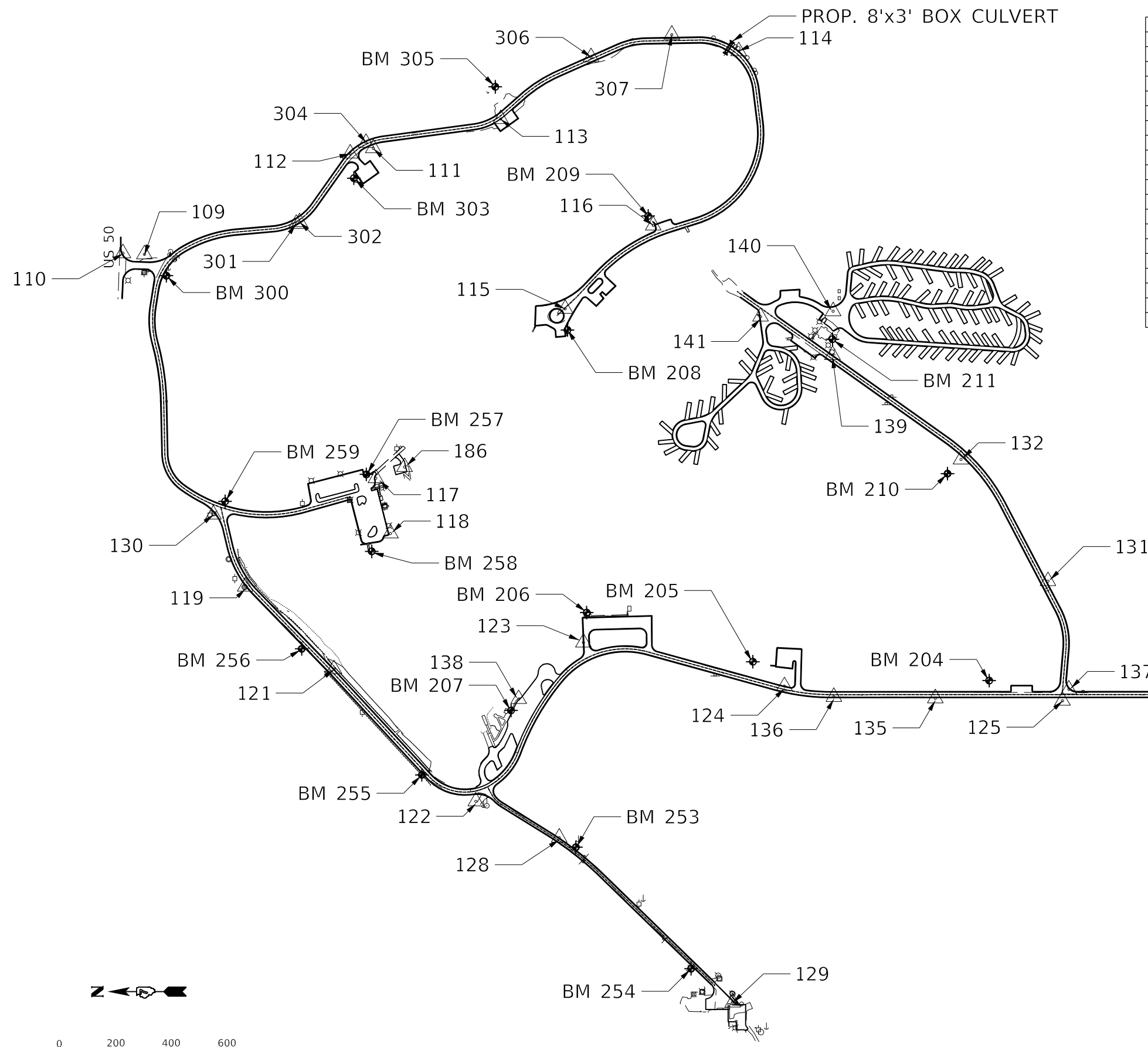
Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = sjsanby	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
PLOT SCALE = 24.00' / ft.	CHECKED - JGG	REVISED
PLOT DATE = 2/14/2021 11:15:22 PM	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CONTROL POINTS NORTH		RED HILLS STATE PARK	
SCALE: AS NOTED	SHEET 1 OF 2 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	25
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



BENCHMARKS			
Pt#	Northing	Eastng	Elevation
203	747010.905	1125293.678	508.23
204	748959.21	1125344.23	518.05
205	749798.99	1125411.21	515.47
206	750389.50	1125585.73	514.85
207	750658.15	1125238.00	510.18
208	750457.46	1126590.08	515.73
209	750170.82	1126995.18	521.48
210	749107.22	1126079.59	525.30
211	749515.96	1126557.35	532.54
253	750427.68	1124751.93	492.78
254	750018.34	1124320.43	488.06
255	750974.88	1125008.89	506.45
256	751401.97	1125456.96	507.23
257	751172.28	1126077.01	514.22
258	751153.15	1125803.24	512.88
259	751674.17	1125981.24	524.39
300	751882.93	1126783.03	530.85
303	751216.60	1127129.57	515.76
305	750714.21	1127454.35	525.64

CONTROL POINTS			
Pt#	Northing	Eastng	Elevation
109	751960.19	1126864.63	532.27
110	752036.57	1126863.43	537.04
111	751147.18	1127240.89	511.68
112	751228.67	1127221.43	515.43
113	750692.54	1127343.01	521.24
114	749848.22	1127580.34	501.21
115	750464.62	1126669.53	516.75
116	750151.77	1126966.77	521.95
117	751138.47	1126063.03	511.52
118	751086.62	1125867.00	509.50
119	751602.57	1125677.83	499.62
121	751285.76	1125386.68	504.01
122	750783.25	1124914.89	507.34
123	750400.88	1125479.25	513.46
124	749685.27	1125327.77	514.43
125	748696.35	1125280.46	518.12
126	747296.21	1125306.92	511.90
127	747019.80	1125294.49	508.12
128	750486.95	1124786.02	496.81
129	749868.92	1124205.94	481.36
130	751714.61	1125939.08	524.73
131	748750.39	1125697.40	502.26
132	749059.20	1126130.05	525.08
135	749150.51	1125281.14	518.50
136	749511.17	1125286.14	517.00
137	748676.14	1125312.58	518.75
138	750631.14	1125278.43	510.23
139	749515.95	1126500.99	532.12
140	749513.71	1126656.67	532.29
141	749771.63	1126637.29	526.77
186	751036.50	1126102.99	500.27
301	751419.71	1126969.72	505.20
302	751408.21	1126975.16	504.74
304	751172.95	1127257.33	513.26
306	750373.03	1127562.12	505.19
307	750085.54	1127639.80	509.05

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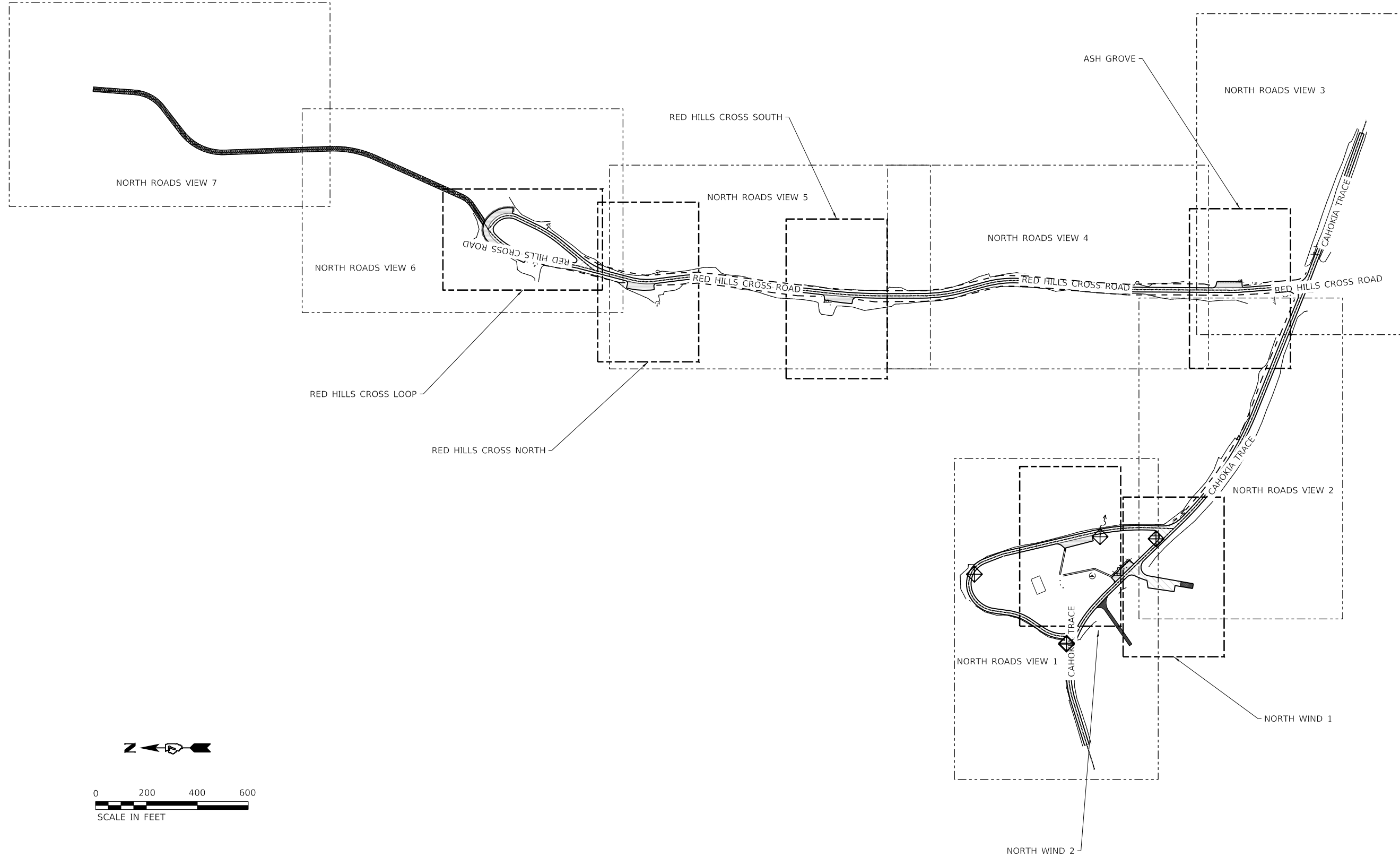
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTROL POINTS SOUTH
RED HILLS STATE PARK

SCALE: AS NOTED SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	26
CONTRACT NO. 46928			ILLINOIS FED. AID PROJECT	



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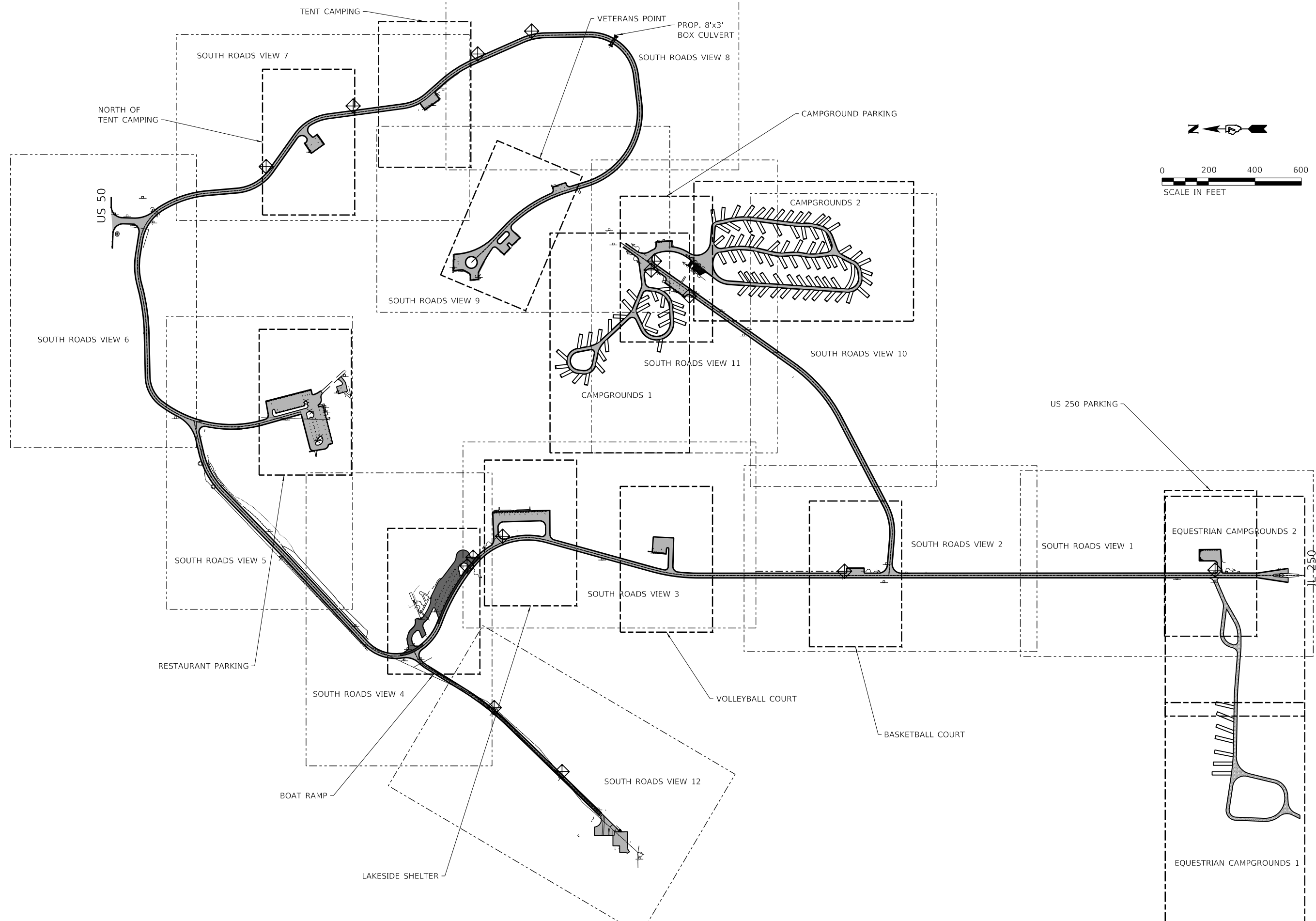
Farnsworth
 GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = sjsanby	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
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PLOT DATE = 2/14/2021 11:15:25 PM	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARK ROADS & CAMPGROUND OVERVIEW	
RED HILLS STATE PARK	
SCALE: AS NOTED	TO STA.
SHEET 1 OF 2 SHEETS	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	27
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



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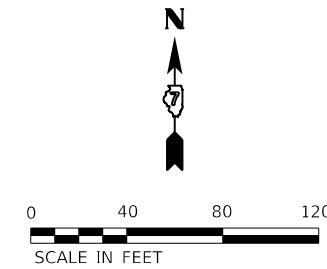
Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = sllsanby	DESIGNED - WLB	REVISED
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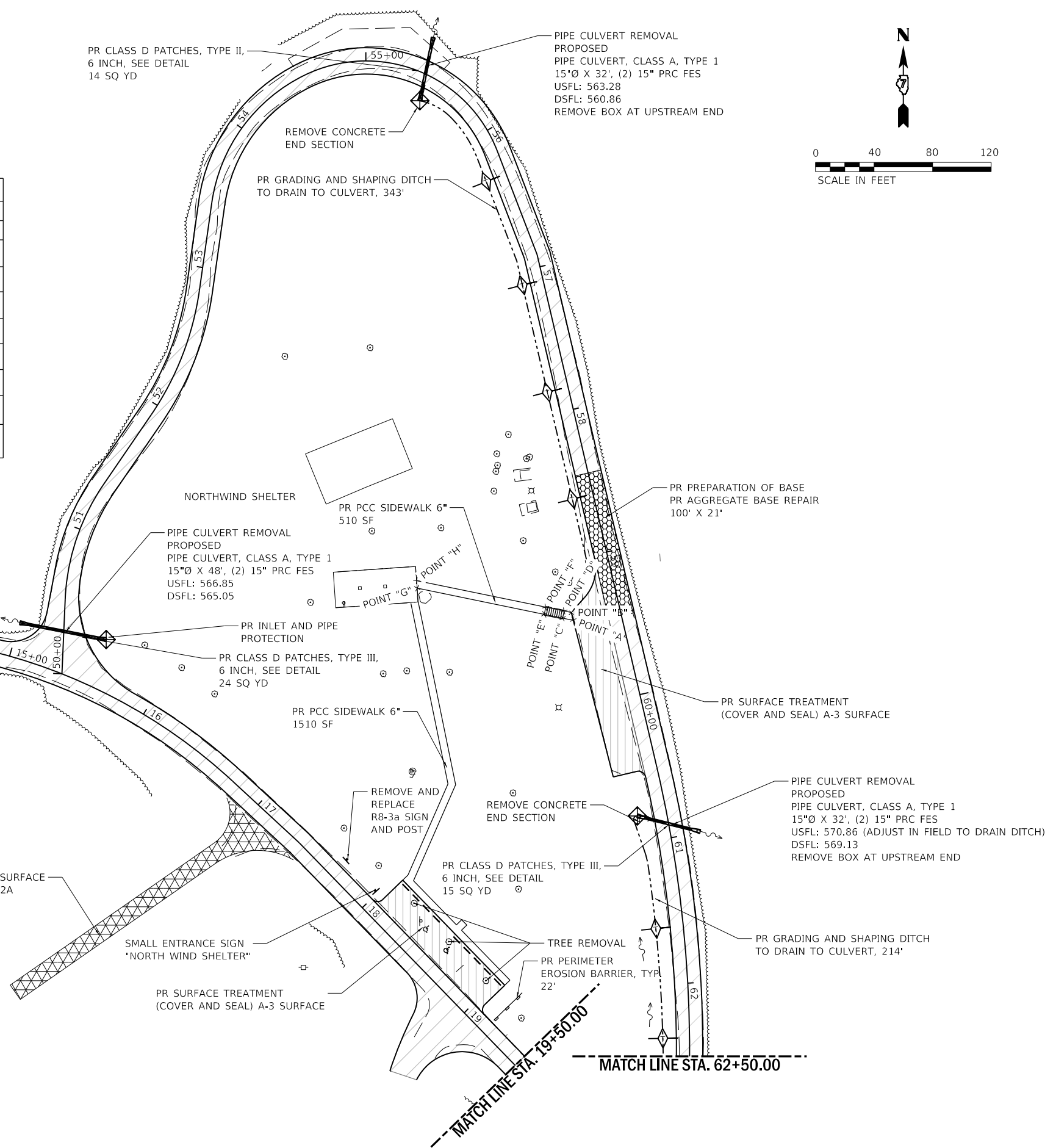
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARK ROADS & CAMPGROUND OVERVIEW RED HILLS STATE PARK		
SCALE: AS NOTED	SHEET 2 OF 2 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	28
			CONTRACT NO. 46928	
ILLINOIS FED. AID PROJECT				



NORTHWIND SHELTER STAIRS ELEVATIONS				
POINT	NORTHING	EASTING	ELEV	NOTE
A	1124946.09	753914.69	574.81	SOUTH EOP AND SW
B	1124944.78	753919.84	574.87	NORTH EOP AND SW
C	1124938.84	753915.95	574.9	SOUTH BOTTOM OF STAIRS
D	1124939.88	753920.85	574.95	NORTH BOTTOM OF STAIRS
E	1124926.39	753918.53	578.09	SOUTH TOP OF STAIRS
F	1124927.39	753923.42	578.14	NORTH TOP OF STAIRS
G	1124839.53	753936.42	583.62	SOUTH TIE IN AT PAVILION
H	1124839.20	753941.60	583.62	NORTH TIE IN AT PAVILION



BEGIN CONSTRUCTION STA. 11+00.00

SEE DETAIL FOR PR TUBULAR STEEL GATE

PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE

PR SCARIFY EXISTING SURFACE AND SEEDING, CLASS 2A 200' LONG

SMALL ENTRANCE SIGN "NORTH WIND SHELTER"

PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE

MATCH LINE STA. 19+50.00

MATCH LINE STA. 62+50.00

LEGEND			
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 1/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/4" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

PEN TABLE: DRIVER: SHEET: F:\DOTSSA_Standard Project Pen\Pen...
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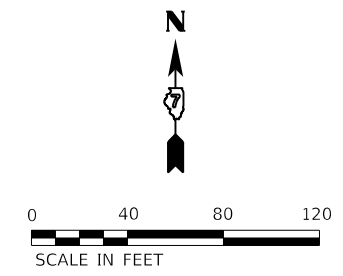
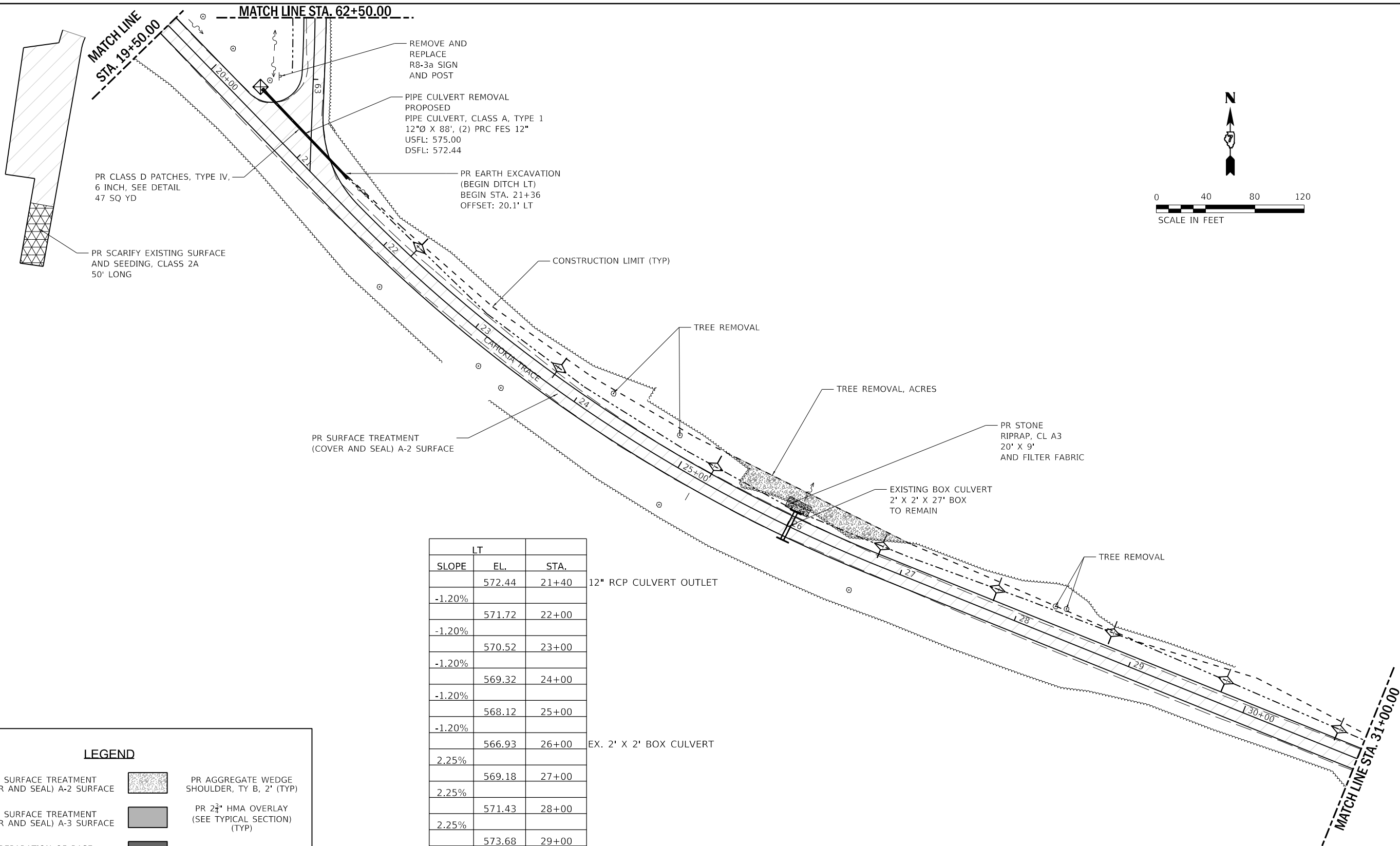
Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = s#sanby	DESIGNED - WLB	REVISED
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PLOT DATE = 2/14/2021	CHECKED - JGG	REVISED
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

NORTH ROADS PLAN - VIEW 1 RED HILLS STATE PARK	
SCALE: AS NOTED	SHEET 1 OF 7 SHEETS
STA. 11+00.00	TO STA. 19+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	29
CONTRACT NO. 46928			ILLINOIS FED. AID PROJECT	



LT	SLOPE	EL.	STA.
		572.44	21+40
	-1.20%	571.72	22+00
	-1.20%	570.52	23+00
	-1.20%	569.32	24+00
	-1.20%	568.12	25+00
	-1.20%	566.93	26+00
	2.25%	569.18	27+00
	2.25%	571.43	28+00
	2.25%	573.68	29+00
	2.25%	575.93	30+00
	2.25%	578.18	31+00
	4.00%	580.18	31+50

LEGEND			
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 1/4\"/>
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2\"/>
	PR AGGREGATE SURFACE COURSE TYPE B, 2\"/>		

PEN TABLE: DRIVER: SHEET: F:\2019\08\18\17\20 - BDOT\1865013\Red Hills State Park\04_Drawing\DCN\CAD_Sheets\0746928_036 North View_2.dgn

Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

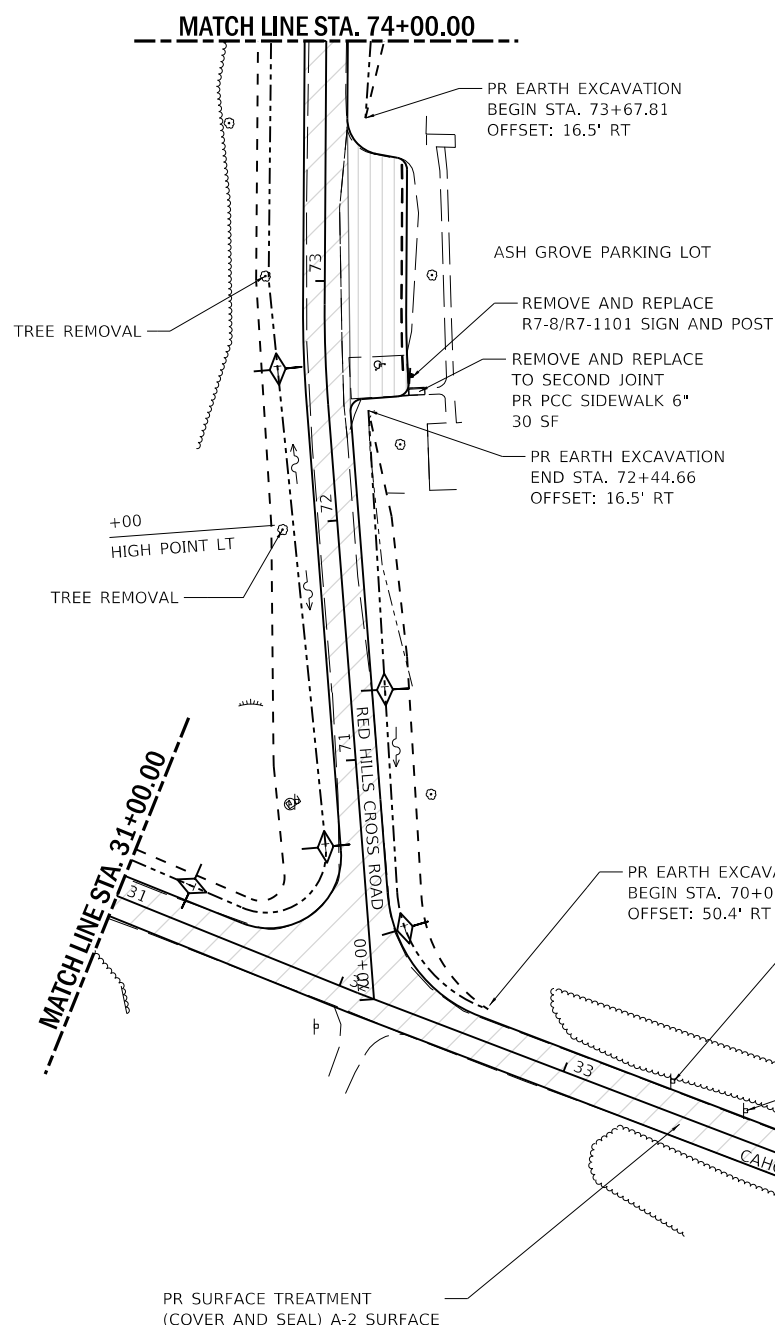
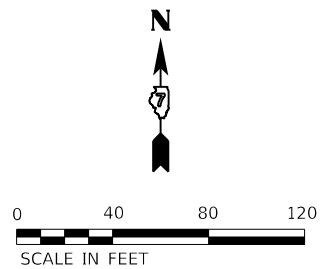
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

NORTH ROADS PLAN - VIEW 2
 RED HILLS STATE PARK

SCALE: AS NOTED SHEET 2 OF 7 SHEETS STA. 19+50.00 TO STA. 31+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	30
CONTRACT NO. 46928			ILLINOIS FED. AID PROJECT	



LT		STA.	RT	
SLOPE	EL.		EL.	SLOPE
-	582.97	70+01	582.97	3.20%
2.00%	583.69	71+00	586.13	1.30%
-	585.69	72+00	587.43	1.30%
-0.40%	588.01	72+45		BEGIN DITCH RT
-	585.29	73+00	-	
-0.40%	587.72	73+68		BEGIN DITCH RT
-	587.30	74+00	587.30	-1.30%
LT			RT	

HIGH POINT LT

BEGIN DITCH RT

BEGIN DITCH RT

MATCH LINE STA. 31+00.00

PR SURFACE TREATMENT
(COVER AND SEAL) A-2 SURFACE

PR EARTH EXCAVATION
BEGIN STA. 70+01.35
OFFSET: 50.4' RT

REMOVE AND REPLACE
R8-3a SIGN AND POST
REMOVE AND REINSTALL
SIGN PANEL "NO OFF ROAD"

REMOVE AND REPLACE
R2-1 SIGN AND POST
REMOVE AND REINSTALL
SIGN PANEL "NOTICE
BRINGING TRASH PROHIBITED"

END CONSTRUCTION
STA. 38+50.00

SEE DETAIL FOR
PR TUBULAR STEEL GATE

LEGEND			
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ROADS PLAN - VIEW 3
RED HILLS STATE PARK

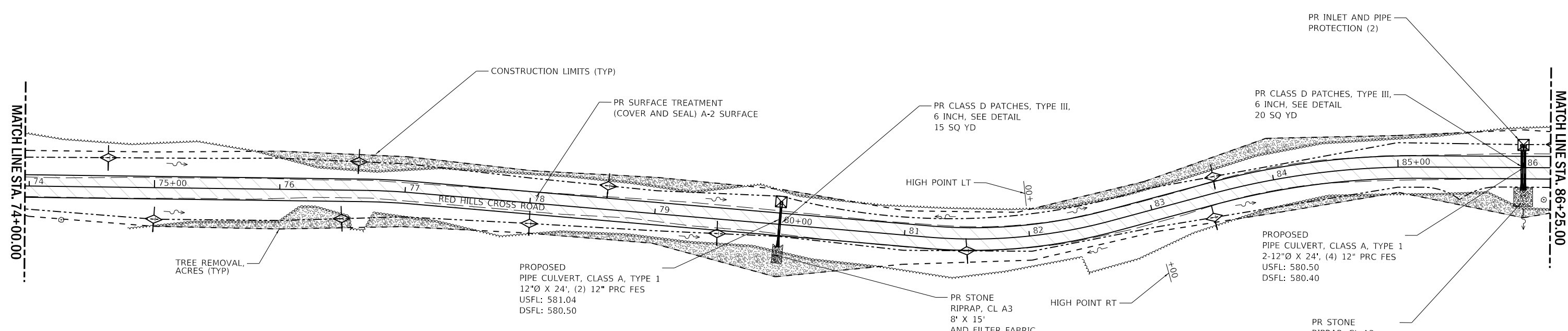
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	31
			CONTRACT NO. 46928	
		ILLINOIS FED. AID PROJECT		

SCALE: AS NOTED SHEET 3 OF 7 SHEETS STA. 31+00.00 TO STA. 74+00.00

PEN TABLE: IDOTSS_Standard Project Pen...
 DRIVER: ...
 SHEET: ...

Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = sbsanby	DESIGNED - WLB	REVISED
PLOT SCALE = 24.00' / ft.	DRAWN - WLB	REVISED
PLOT DATE = 2/14/2021	CHECKED - JGG	REVISED
11:15:37 PM	DATE - 02/12/2021	REVISED



SLOPE	EL.	STA.	EL.	SLOPE
-0.40%				-1.30%
	584.49	75+00	586.00	
-0.40%				-1.30%
	584.09	76+00	584.70	
-0.40%				-1.30%
	583.69	77+00	583.40	
-0.40%				-1.30%
	583.29	78+00	582.10	
-1.12%				-0.80%
	582.17	79+00	581.30	
-1.12%				-0.80%
SAG POINT	581.04	80+00	580.5	
	0.35%			0.35%
	581.39	81+00	580.85	
HIGH POINT LT	0.35%			0.35%
	581.74	82+00	581.2	
	-0.31%			0.35%
	581.43	83+00	581.55	
HIGH POINT RT	-0.31%			-0.38%
	581.12	84+00	581.17	
	-0.31%			-0.38%
	580.81	85+00	580.79	
	-0.31%			-0.38%
SAG POINT	580.5	86+00	580.4	

12" RCP Culvert, 24' @ 1.5% w/ (2) PRC FES

(2) 12" RCP Culvert, 24' @ 0.3% w/ (2) PRC FES

LEGEND			
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

PEN TABLE: DOTSSZ_Standard Project Penet...
 DRIVER: ...
 SHEET: ...



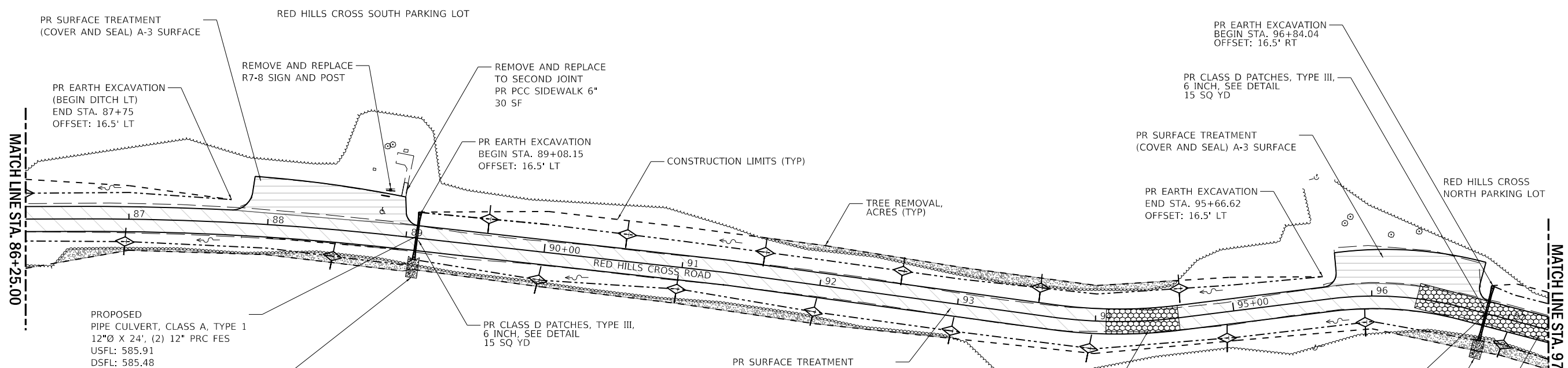
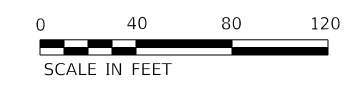
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11:15:38 PM	DATE - 02/12/2021	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTH ROADS PLAN - VIEW 4
RED HILLS STATE PARK**

SCALE: AS NOTED SHEET 4 OF 7 SHEETS STA. 74+00.00 TO STA. 86+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	32
CONTRACT NO. 46928			ILLINOIS FED. AID PROJECT	



	LT	STA.	RT	
	SLOPE	EL.	EL.	SLOPE
	2.00%	582.5	582.05	1.65%
	2.00%	584	-	-
BEGIN DITCH LT	-	87+75	-	1.65%
	-	88+00	583.7	1.65%
BEGIN DITCH LT	-	89+00	585.35	1.65%
	-	89+08	585.48	1.65%
	3.50%	90+00	587.92	2.65%
	3.50%	91+00	591.62	3.70%
	3.50%	92+00	595.32	3.70%
	3.50%	93+00	599.02	3.70%
	4.20%	94+00	602.72	4.75%
	4.20%	95+00	607.47	4.75%
BEGIN DITCH LT	610.12	95+67	-	-
	-	96+00	612.22	4.75%
	-	96+84	616.21	4.75%

12" RCP Culvert, 24' @ 1.2% w/ (2) PRC FES

12" RCP Culvert, 24' @ 1.2% w/ (2) PRC FES

LEGEND

	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2" (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 1/2" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/2" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

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Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@fw.com

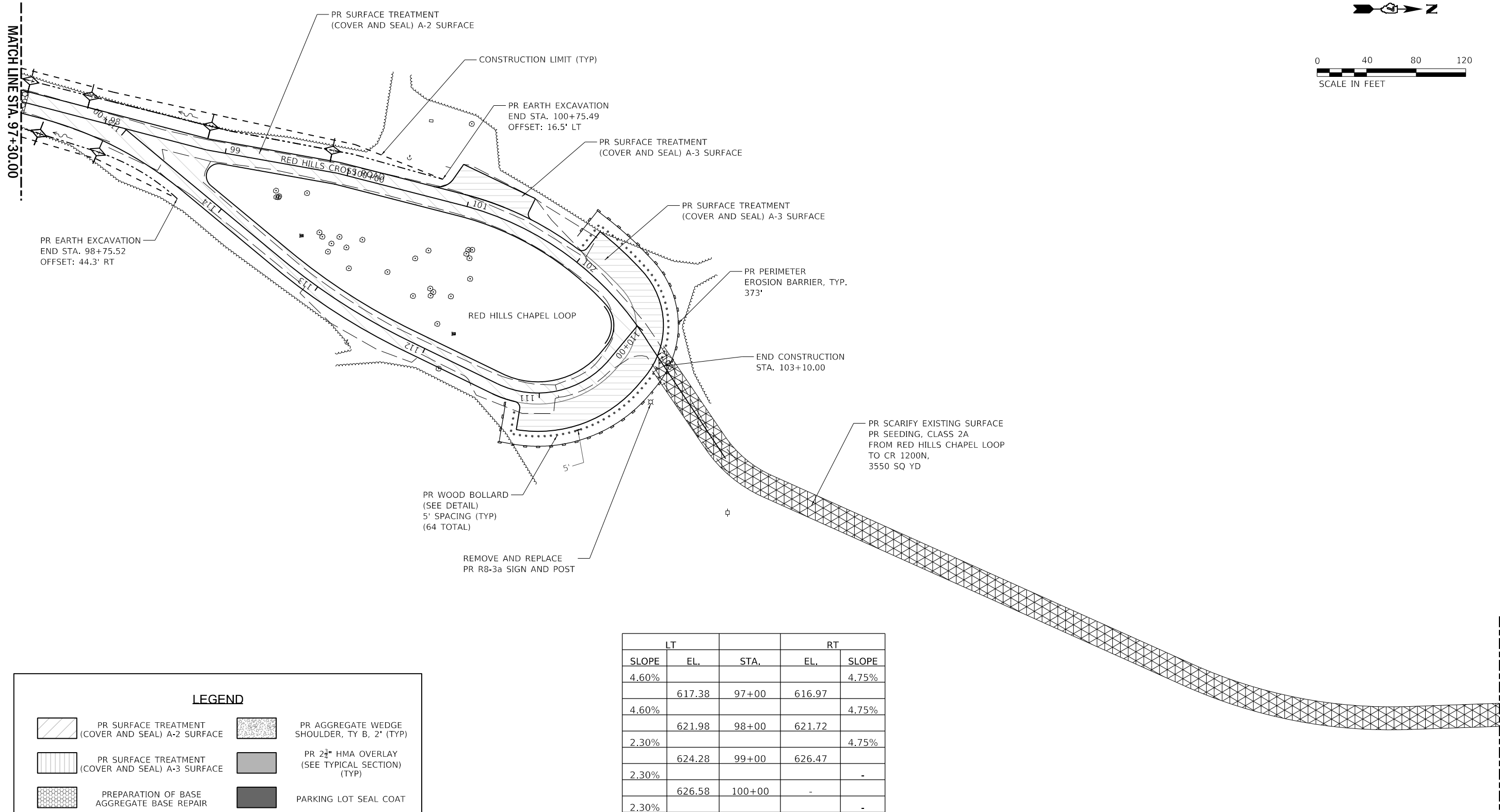
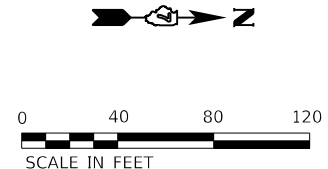
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH ROADS PLAN - VIEW 5
 RED HILLS STATE PARK**

SCALE: AS NOTED SHEET 5 OF 7 SHEETS STA. 86+00.00 TO STA. 97+30.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	33
CONTRACT NO. 46928			ILLINOIS FED. AID PROJECT	



LT			RT	
SLOPE	EL.	STA.	EL.	SLOPE
4.60%	617.38	97+00	616.97	4.75%
4.60%	621.98	98+00	621.72	4.75%
2.30%	624.28	99+00	626.47	4.75%
2.30%	626.58	100+00	-	-
2.30%	628.31	100+75	-	-

LEGEND			
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 1/2" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

PEN TABLE: DOTSSZ_Standard Project Pen.tbl
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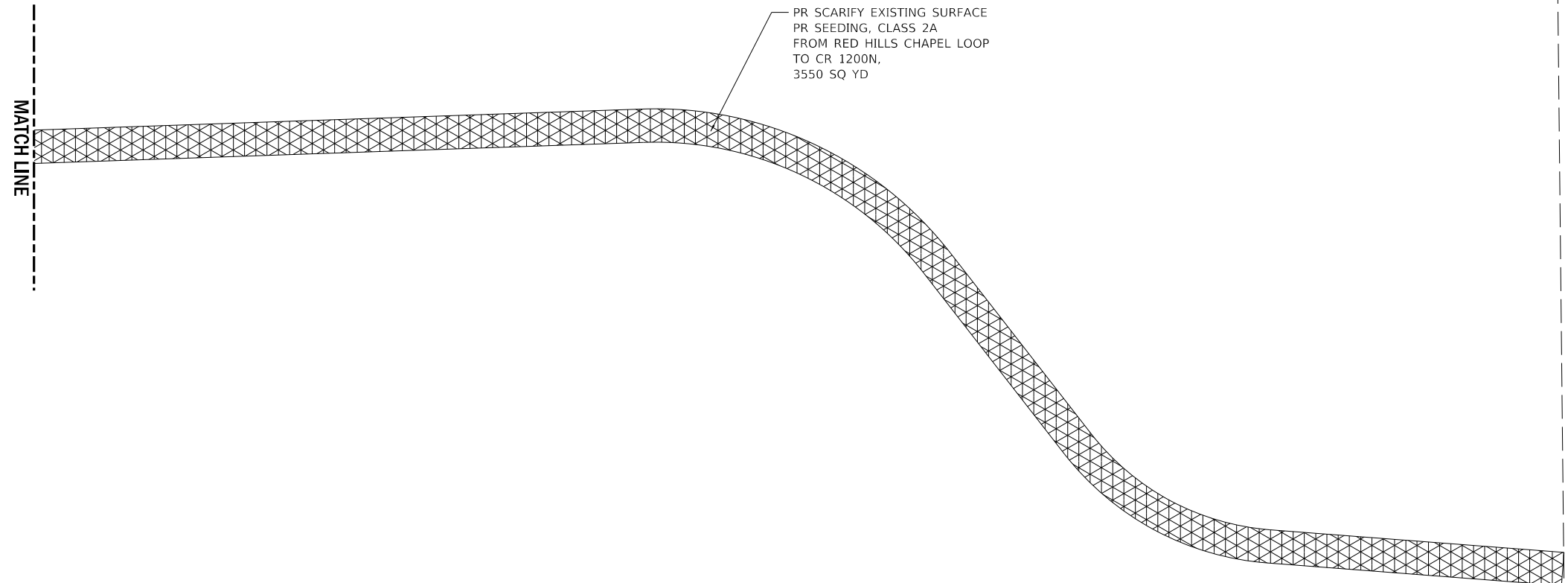
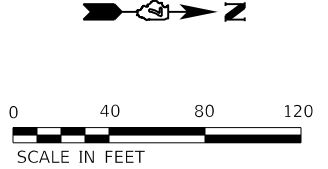
Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = sjsanby	DESIGNED - WLB	REVISED
PLOT SCALE = 24.00' / ft.	DRAWN - WLB	REVISED
PLOT DATE = 2/14/2021	CHECKED - JGG	REVISED
11:15:41 PM	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ROADS PLAN - VIEW 6
RED HILLS STATE PARK
 SCALE: AS NOTED SHEET 6 OF 7 SHEETS STA. 97+30.00 TO STA. 103+10.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	34
CONTRACT NO. 46928			ILLINOIS FED. AID PROJECT	



LEGEND

	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 1/2" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

PEN TABLE: IDOTSSA_Standard Project Pen.tbl
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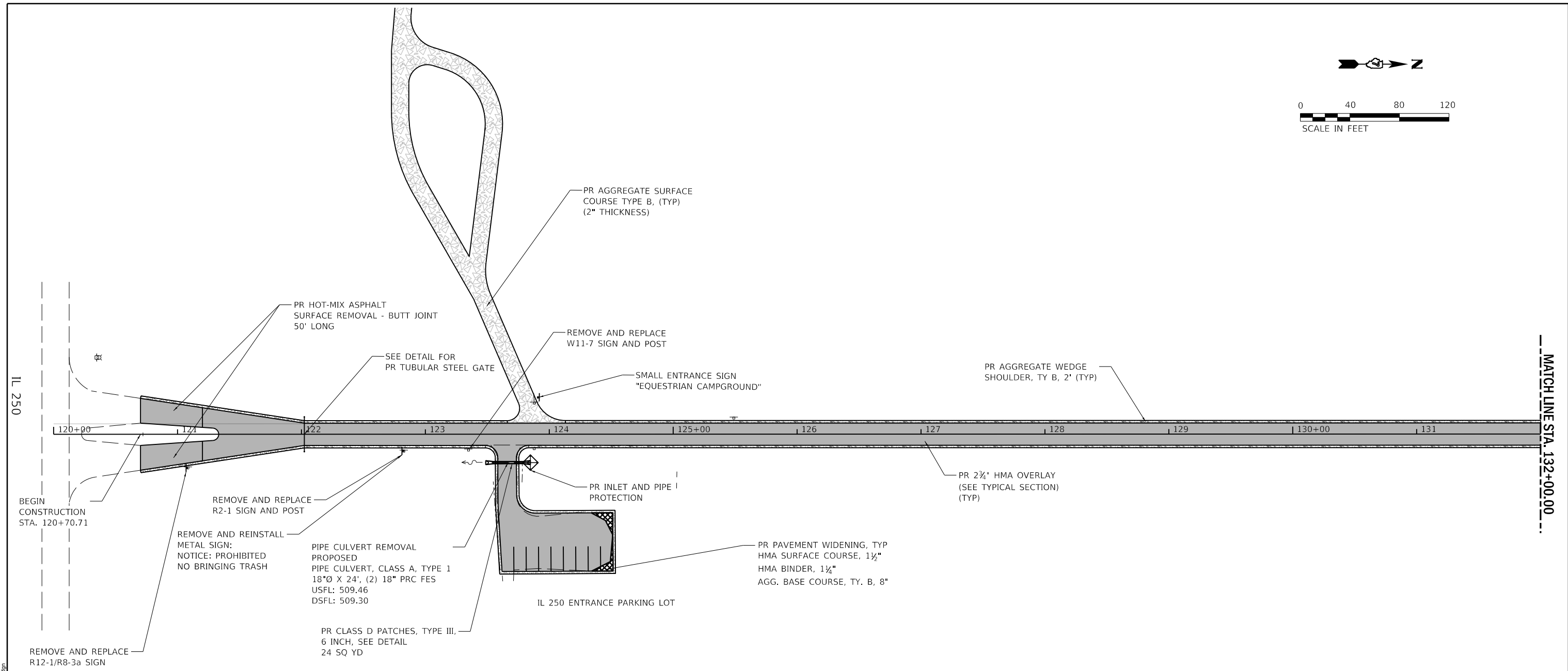
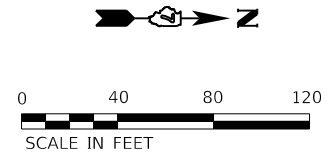
Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@fw.com

USER NAME =	sbsanby	DESIGNED -	WLB	REVISED	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ROADS PLAN - VIEW 7			
RED HILLS STATE PARK			
SCALE: AS NOTED	SHEET 7 OF 7 SHEETS	STA. -	TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	RED HILLS 2021	LAWRENCE	98	35
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



--- MATCH LINE STA. 132+00.00 ---

LEGEND

	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

PEN TABLE: DOTSSZ_Standard Project Penet...
 DRIVER: ...
 SHEET: ...

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 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = s#sanby	DESIGNED - WLB	REVISED
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PLOT DATE = 2/14/2021 11:15:44 PM	CHECKED - JGG	REVISED
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOUTH ROADS PLAN - VIEW 1
 RED HILLS STATE PARK**

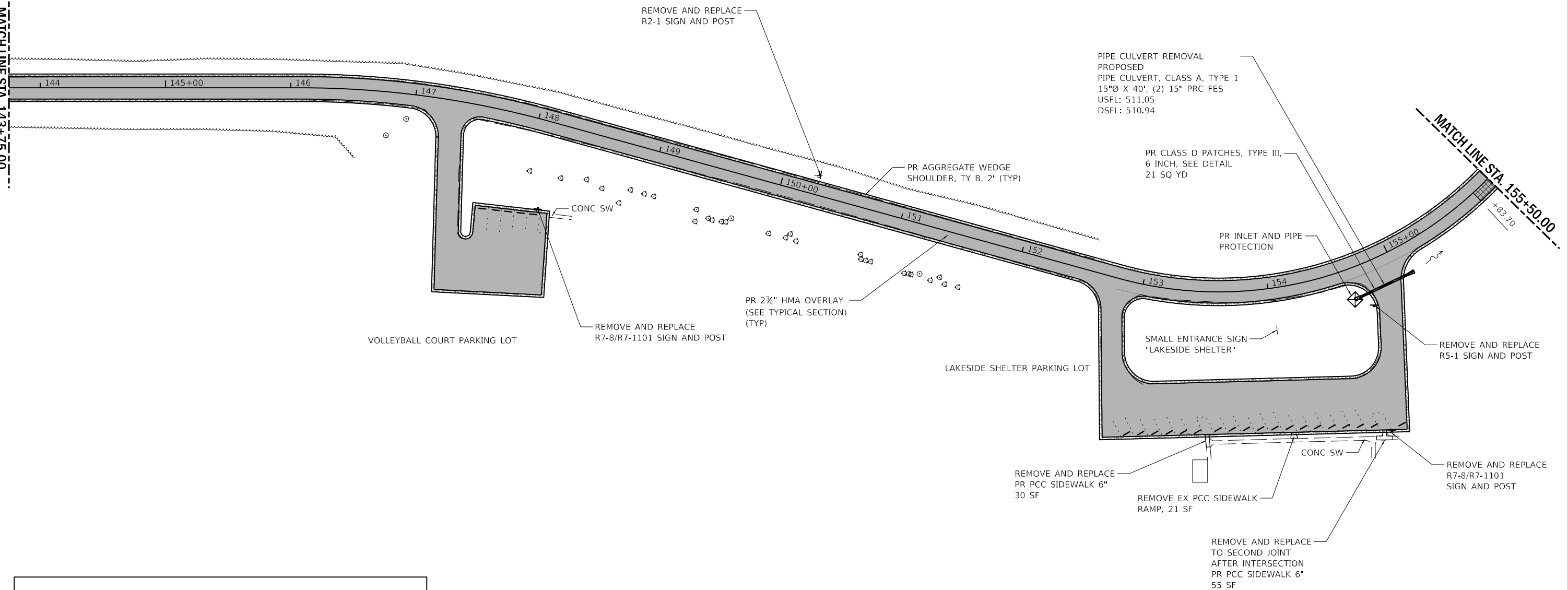
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	36
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



MATCH LINE STA. 143+75.00

MATCH LINE STA. 155+50.00



LEGEND	
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE
	PREPARATION OF BASE AGGREGATE BASE REPAIR
	SCARIFY EXISTING SURFACE SEEDING, 2A
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)
	PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PARKING LOT SEAL COAT
	PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/2" AGG. BASE COURSE, TY. B, 8"

PEN TABLE: IDOTSSA_Standard Project Penetration
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 SHEET: CHAMPAIGN, ILLINOIS 61821
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Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

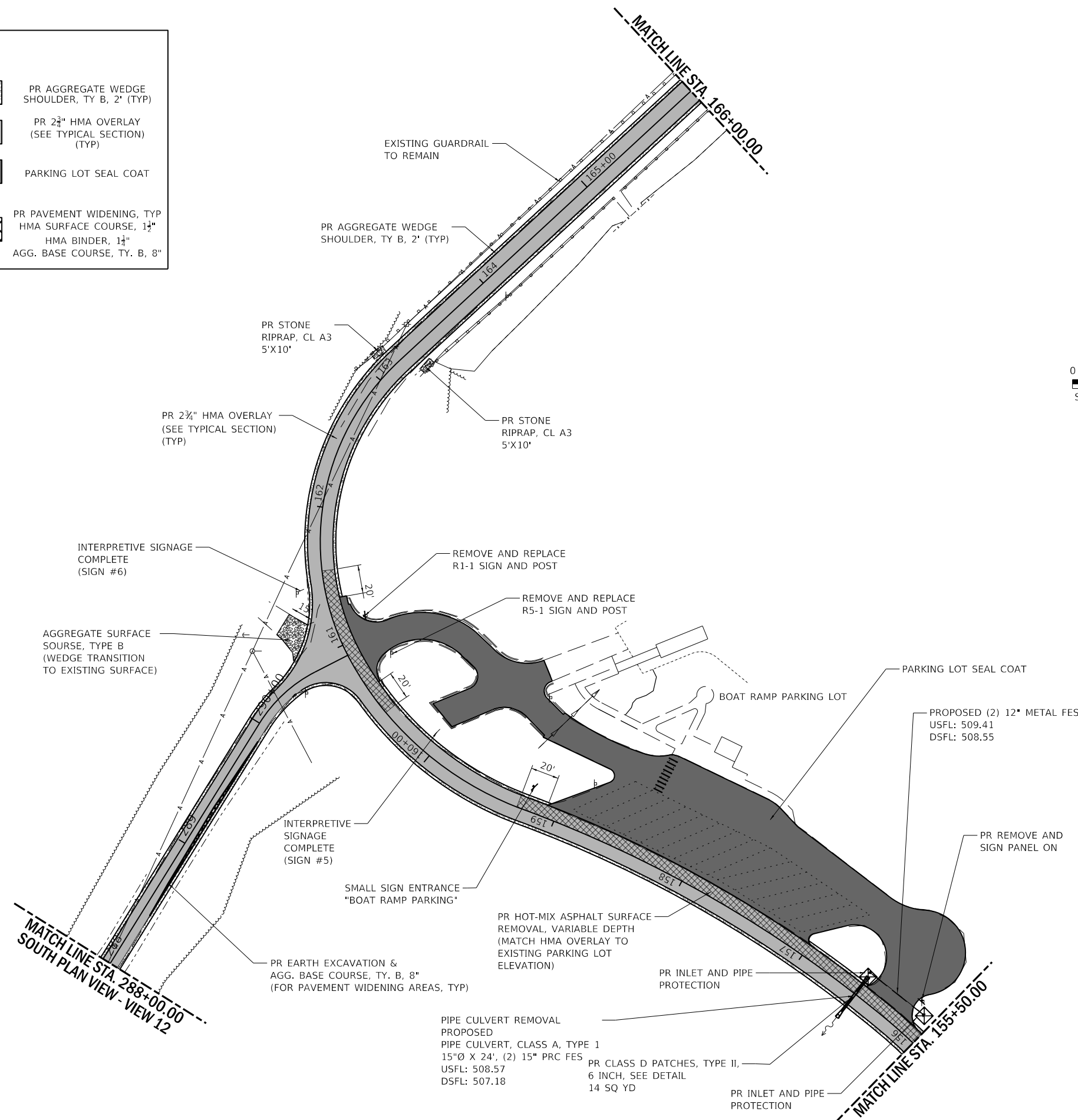
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	DATE - 02/12/2021	REVISIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOUTH ROADS PLAN - VIEW 3 RED HILLS STATE PARK		
SCALE: AS NOTED	SHEET 3 OF 12 SHEETS	STA. 143+75.00 TO STA. 155+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	38
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	

LEGEND			
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		



PEN TABLE: IDOTSSA_Standard Project Penetration
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 SHEET: 46928

Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = s#sanby	DESIGNED - WLB	REVISED
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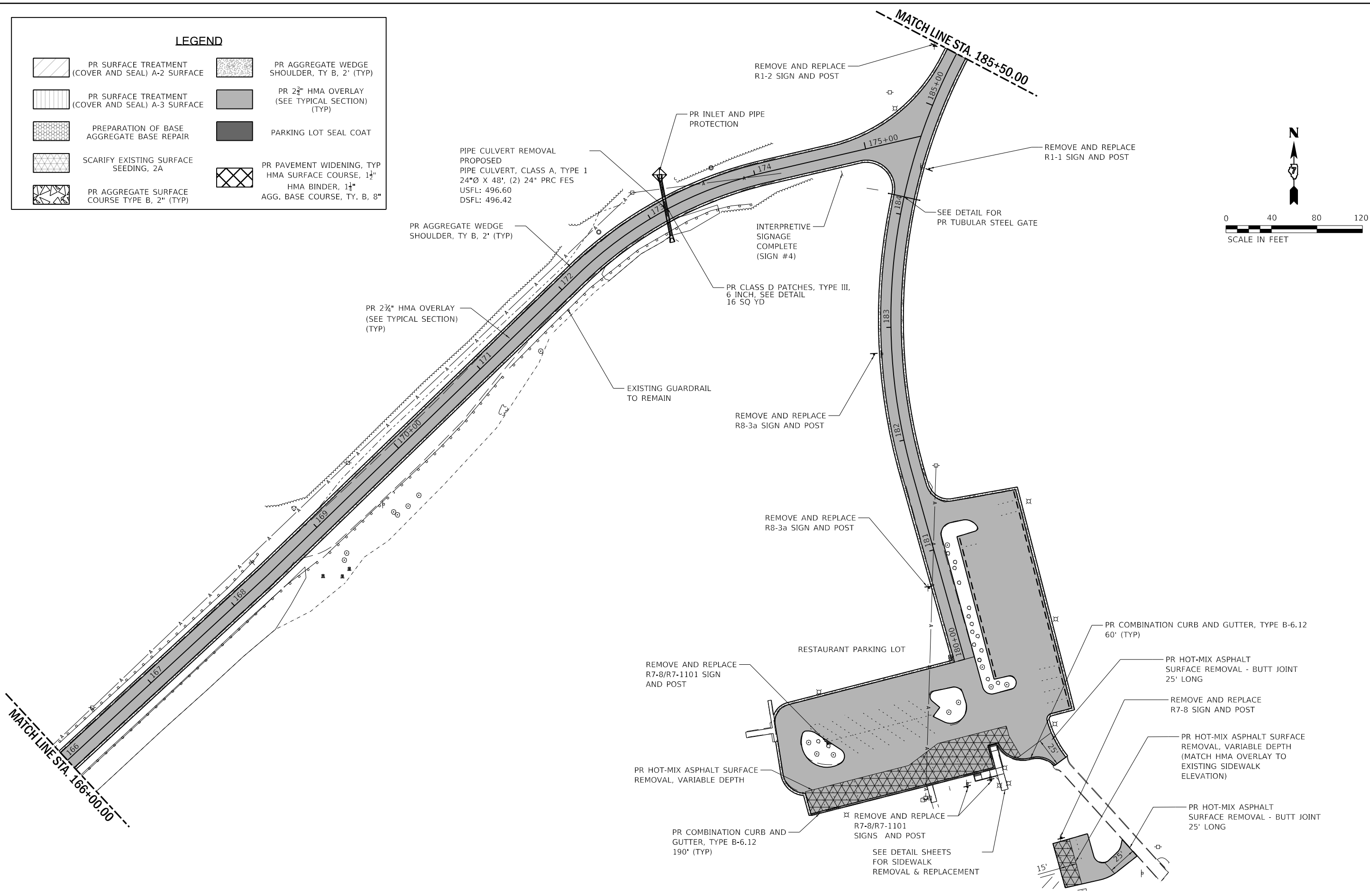
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ROADS PLAN - VIEW 4 RED HILLS STATE PARK		
SCALE: AS NOTED	SHEET 4 OF 12 SHEETS	STA. 155+50.00 TO STA. 166+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	39
CONTRACT NO. 46928			ILLINOIS FED. AID PROJECT	

LEGEND

	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		



PEN TABLE: IDOTSSA_Standard Project Penetration
 DRIVER: SCS
 SHEET: FILES: 8/20/2021 10:17:20 - BDOT P18 186-013 Red Hills State Park04_DrawingIDOTSSA_Sheet0746928_045 South View 5.dgn

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 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = s#sanby	DESIGNED - WLB	REVISED
DRAWN - WLB	DRAWN - WLB	REVISED
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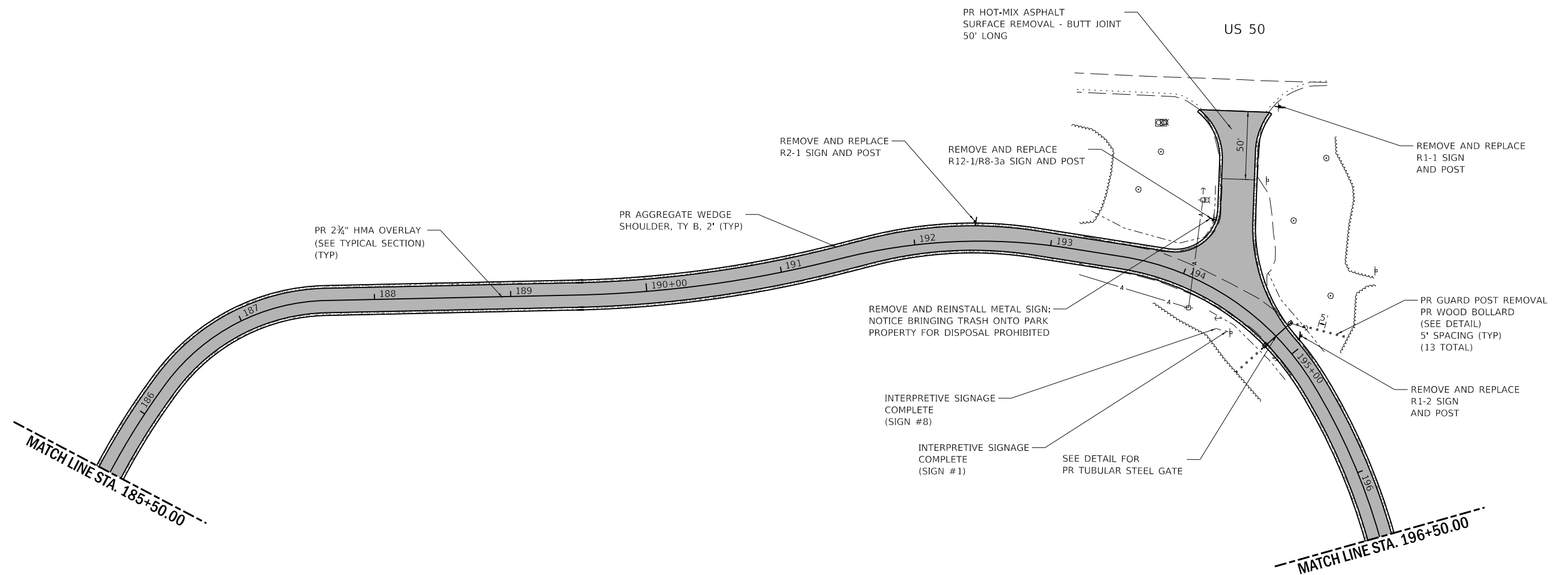
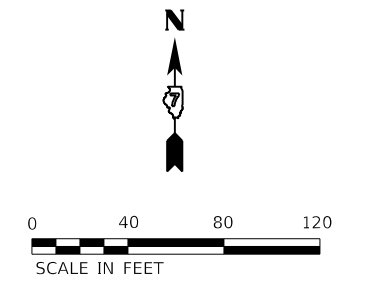
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ROADS PLAN - VIEW 5 RED HILLS STATE PARK		
SCALE: AS NOTED	SHEET 5 OF 12 SHEETS	STA. 166+00.00 TO STA. 185+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	40
			CONTRACT NO. 46928	
ILLINOIS FED. AID PROJECT				

LEGEND

	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/2" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		



PEN TABLE: IDOTSSA_Standard Project Penetration
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 (217) 352-7408 / info@f-w.com

USER NAME = s#sanby	DESIGNED - WLB	REVISIONS
PLOT SCALE = 24.00' / ft.	DRAWN - WLB	REVISIONS
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




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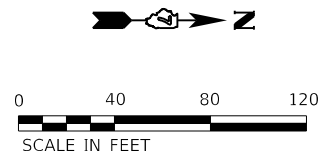
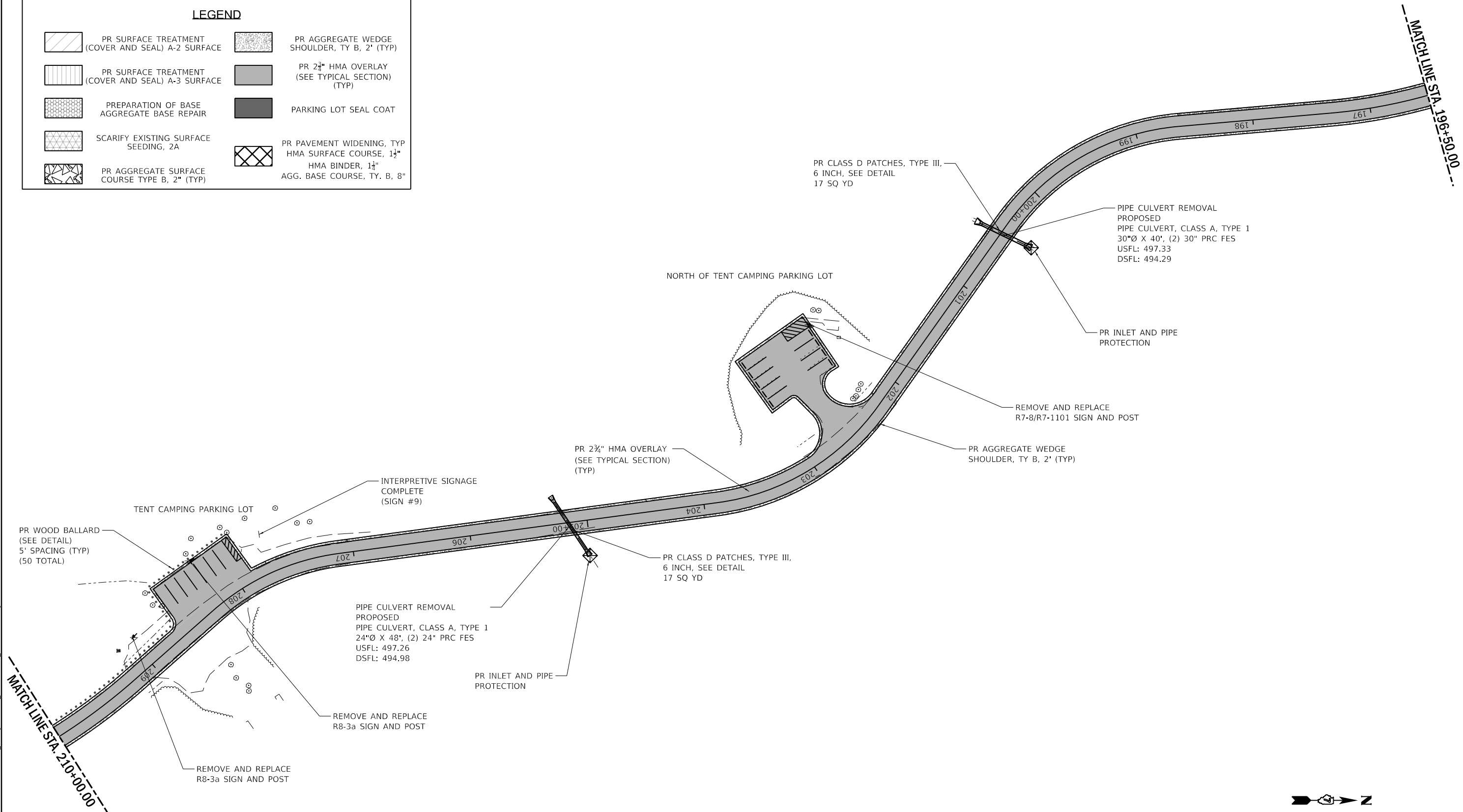
SOUTH ROADS PLAN - VIEW 6
 RED HILLS STATE PARK

SCALE: AS NOTED SHEET 6 OF 12 SHEETS STA. 185+50.00 TO STA. 196+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	41
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	

LEGEND

	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		



PEN TABLE: DOTSSZ_Standard Project Penet
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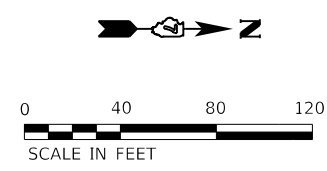
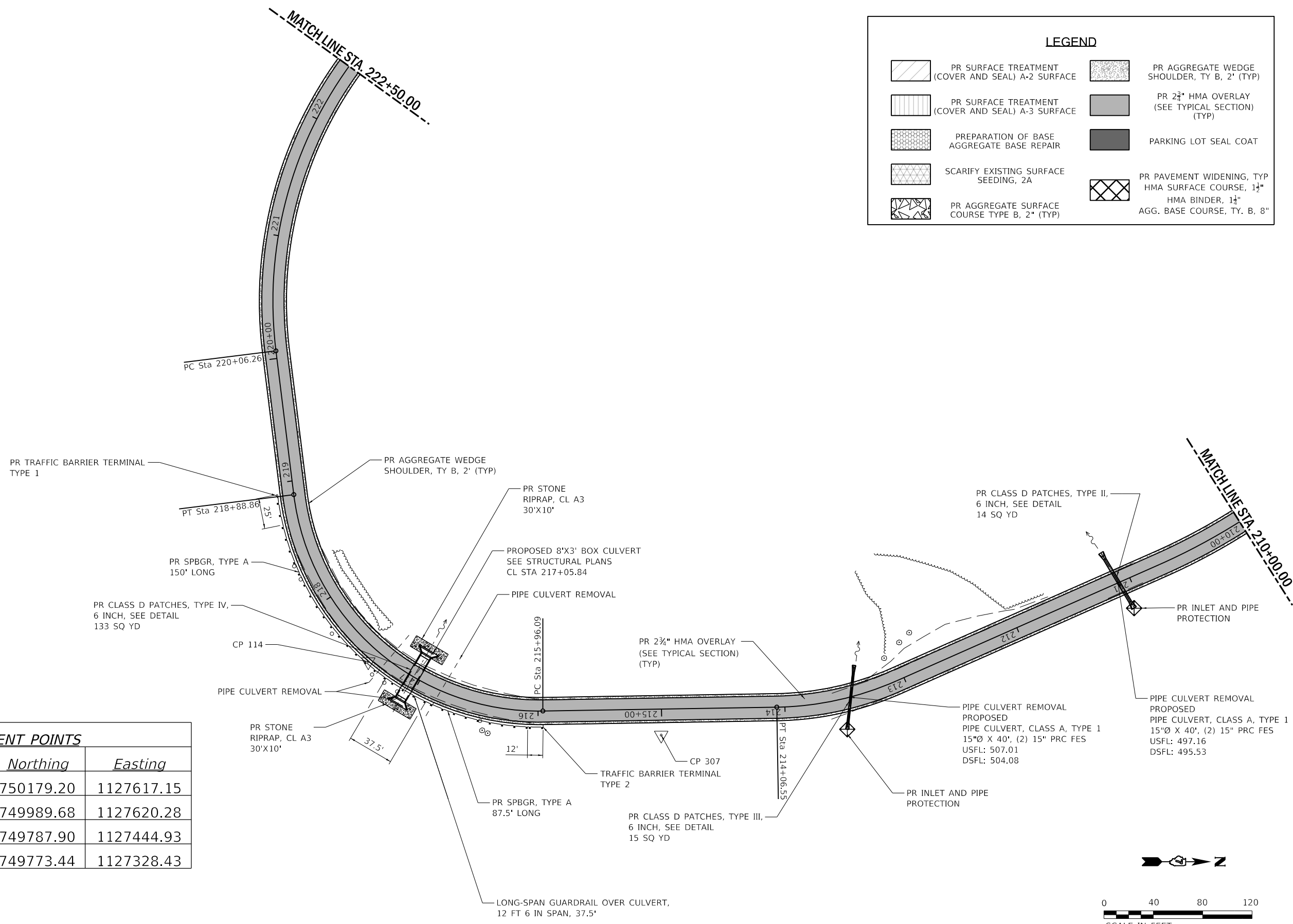
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOUTH ROADS PLAN - VIEW 7 RED HILLS STATE PARK	
SCALE: AS NOTED	SHEET 7 OF 12 SHEETS
STA. 196+50.00	TO STA. 210+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	42
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	

LEGEND			
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/4" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

ALIGNMENT POINTS			
Pt#	STA.	Northing	Easting
PT	214+06.55	750179.20	1127617.15
PC	215+96.09	749989.68	1127620.28
PT	218+88.86	749787.90	1127444.93
PC	220+06.26	749773.44	1127328.43



PEN TABLE: IDOTSSA_Standard Project Penet...
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 SHEET: ...



USER NAME = jgrimm	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

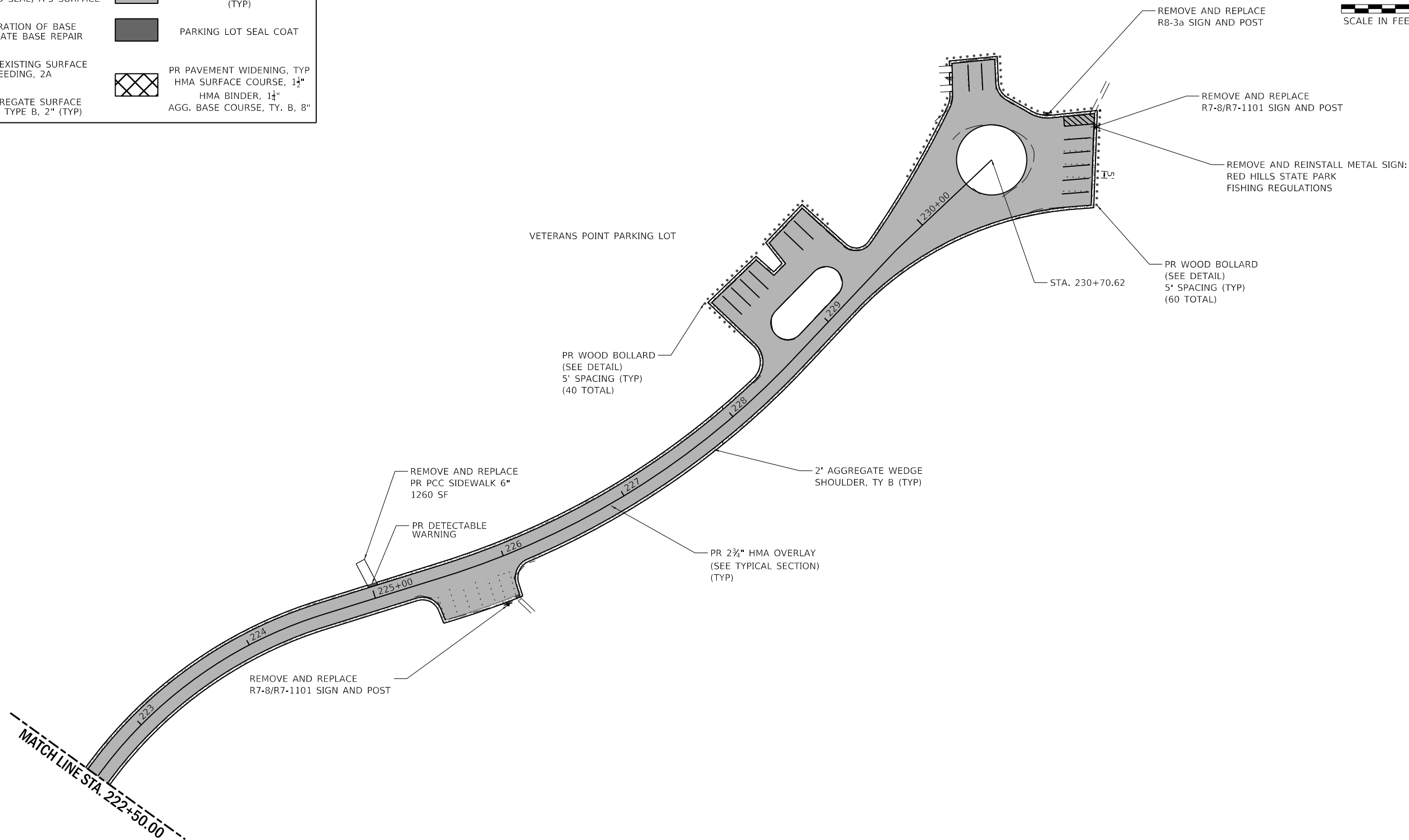
SOUTH ROADS PLAN - VIEW 8
RED HILLS STATE PARK

SCALE: AS NOTED SHEET 8 OF 12 SHEETS STA. 210+00.00 TO STA. 222+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	43
			CONTRACT NO.	46928
ILLINOIS		FED. AID PROJECT		

LEGEND

	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/4" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		



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 SHEET: FILE: 8/20/2021 10:17:20 AM

Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = sjsanby	DESIGNED - WLB	REVISED
PLOT SCALE = 24.00' / ft.	DRAWN - WLB	REVISED
PLOT DATE = 2/14/2021	CHECKED - JGG	REVISED
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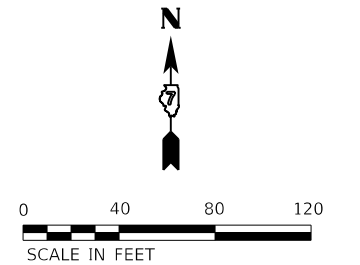
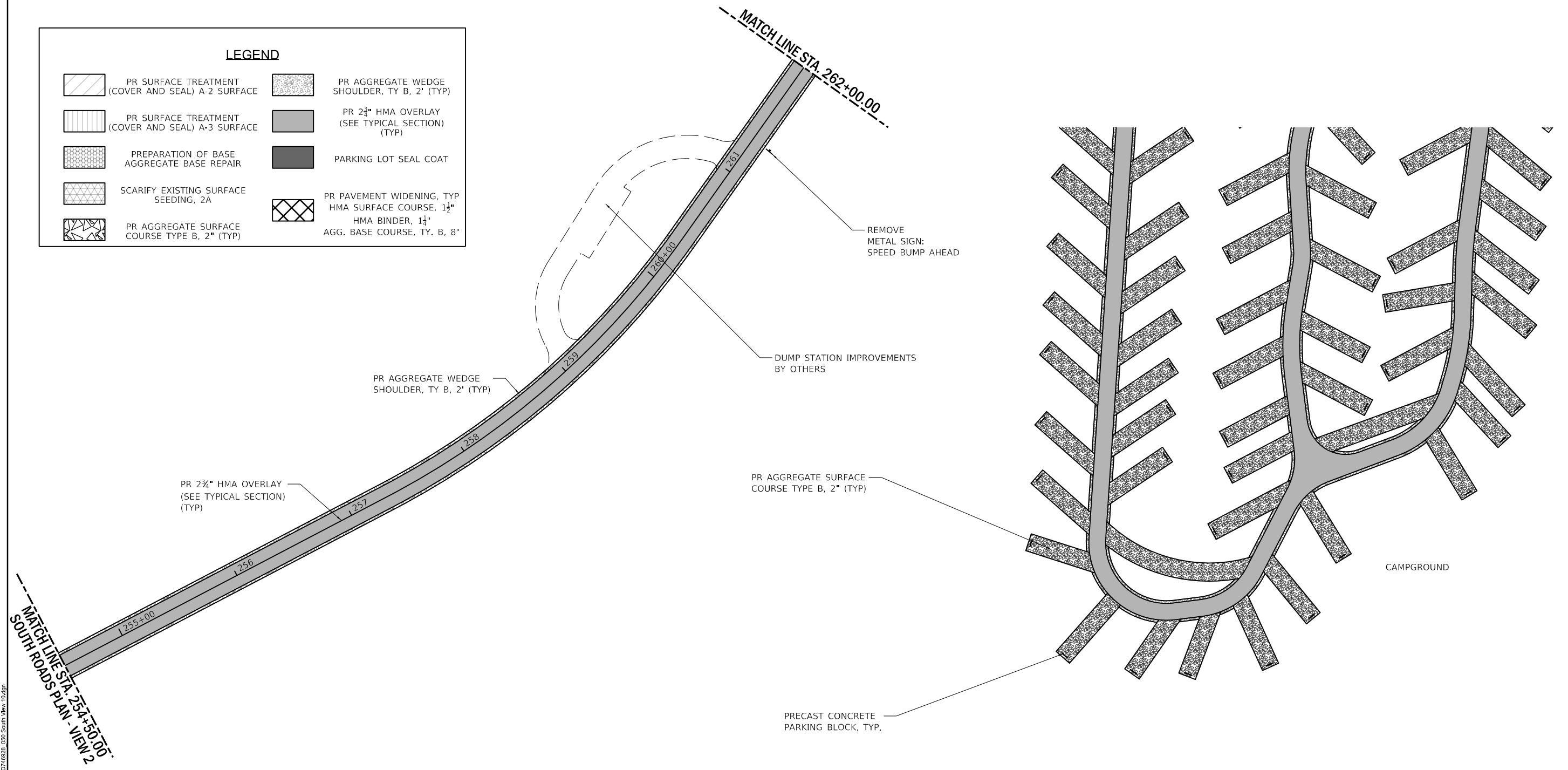
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOUTH ROADS PLAN - VIEW 9
 RED HILLS STATE PARK

SCALE: AS NOTED | SHEET 9 OF 12 SHEETS | STA. 222+50.00 TO STA. 230+70.62

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	RED HILLS 2021	LAWRENCE	98	44
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	

LEGEND			
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/2" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		



PEN TABLE: DOTSSZ_Standard Project Penet
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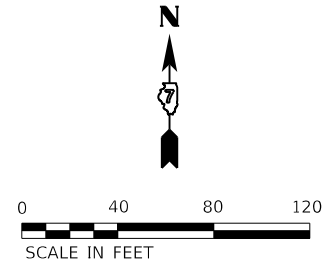
Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = sjsanby	DESIGNED - WLB	REVISED
PLOT SCALE = 24.00' / ft.	DRAWN - WLB	REVISED
PLOT DATE = 2/14/2021	CHECKED - JGG	REVISED
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOUTH ROADS PLAN - VIEW 10		
RED HILLS STATE PARK		
SCALE: AS NOTED	SHEET 10 OF 12 SHEETS	STA. 254+50.00 TO STA. 262+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	45
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)

PR PRECAST CONCRETE PARKING BLOCK, TYP.

PIPE CULVERT REMOVAL PROPOSED
PIPE CULVERT, CLASS A, TYPE 1
12"Ø X 120', (2) 12" PRC FES
USFL: 529.66
DSFL: 528.32

REMOVE AND REPLACE R7-8/R7-1101 SIGN AND POST

PR INLET AND PIPE PROTECTION

REMOVE AND REPLACE R1-1 SIGN AND POST

REMOVE AND REINSTALL SIGN PANEL: CAMPGROUND RULES

REMOVE EXISTING TRAFFIC CONTROL DEVICE (SPEED BUMP)

PR AGGREGATE WEDGE SHOULDER, TY B, 2" (TYP)

PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)

REMOVE AND REPLACE R2-1 (2) SIGN AND POST

PIPE CULVERT REMOVAL PROPOSED
PIPE CULVERT, CLASS A, TYPE 1
12"Ø X 64', (2) 12" PRC FES
USFL: 526.69
DSFL: 526.39

PR CLASS D PATCHES, TYPE IV, 6 INCH, SEE DETAIL
39 SQ YD

REMOVE AND REPLACE SIGN PANEL TYPE 1 (SPECIAL)

END CONSTRUCTION STA. 269+28.80

REMOVE AND REPLACE W14-01 SIGN AND POST

PR HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT 50' LONG

INTERPRETIVE SIGNAGE COMPLETE (SIGN #3)

PIPE CULVERT REMOVAL PROPOSED
PIPE CULVERT, CLASS A, TYPE 1
12"Ø X 56', (2) 12" PRC FES
USFL: 526.53
DSFL: 524.84

PR CLASS D PATCHES, TYPE IV, 6 INCH, SEE DETAIL
31 SQ YD

REMOVE AND REPLACE R7-8/R7-1101 SIGN

REMOVE AND REPLACE SIGN PANEL - TYPE 1 (SPECIAL)

REMOVE AND REPLACE R8-3a SIGN AND POST

PR PIPE CULVERT REMOVAL, 29'

INTERPRETIVE SIGNAGE COMPLETE (SIGN #2)

REMOVE AND REPLACE R7-8/R7-1101 SIGN

CAMPGROUNDS PARKING LOT

REMOVE AND REPLACE R7-8 SIGN

REMOVE AND REPLACE R5-1 SIGN AND POST

REMOVE EXISTING TRAFFIC CONTROL DEVICE (SPEED BUMP)

REMOVE AND REPLACE R2-1 SIGN AND POST

MATCH LINE STA. 262+00.00

LEGEND

	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/4" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH ROADS PLAN - VIEW 11
RED HILLS STATE PARK**

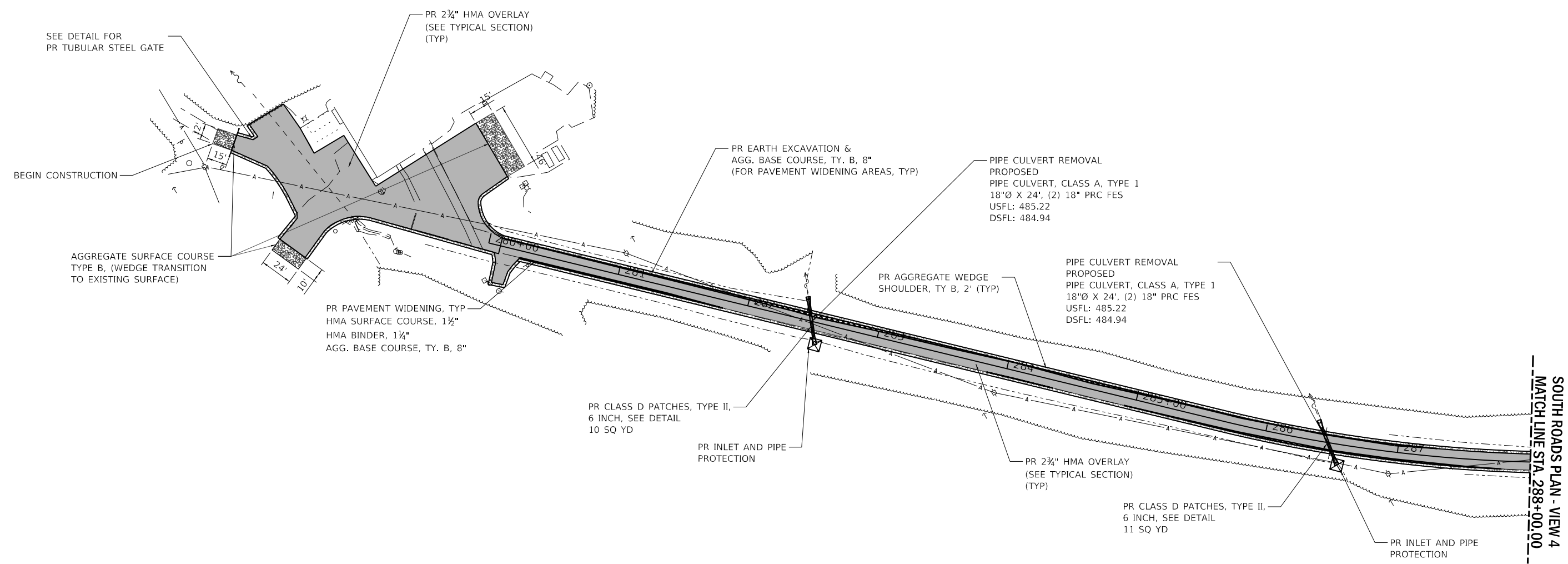
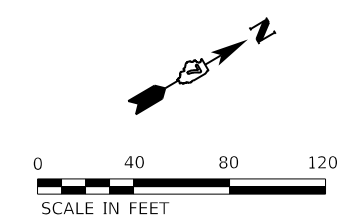
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F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	46
CONTRACT NO. 46928				
ILLINOIS		FED. AID PROJECT		

PEN TABLE: DOTSSA_Standard Project Penet...
 DRIVER: ...
 SHEET: ...

Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = s#sanby	DESIGNED - WLB	REVISED
PLOT SCALE = 24.00' / ft.	DRAWN - WLB	REVISED
PLOT DATE = 2/14/2021	CHECKED - JGG	REVISED
11:16:24 PM	DATE - 02/12/2021	REVISED



LEGEND

	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

PEN TABLE: DRIVER: SHEET: F:\DOTSSA_Standard Project Pen\Pen...
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Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = sjsanby	DESIGNED - WLB	REVISIONS
PLOT SCALE = 24.00' / ft.	DRAWN - WLB	REVISIONS
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	DATE - 02/12/2021	REVISIONS

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

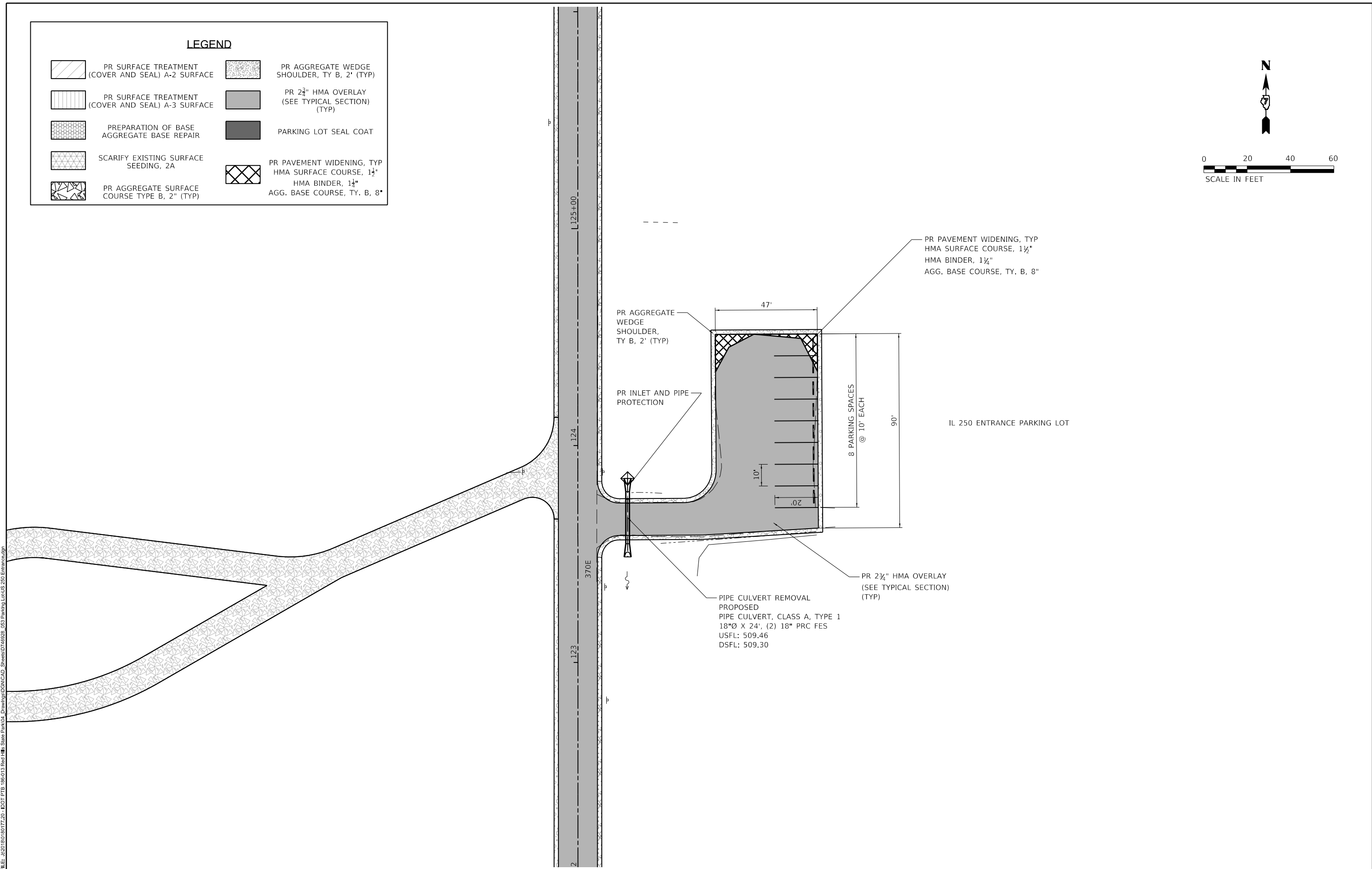
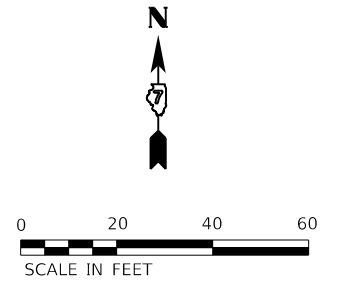
**SOUTH ROADS PLAN - VIEW 12
 RED HILLS STATE PARK**

SCALE: AS NOTED SHEET 12 OF 12 SHEETS STA. 280+00.00 TO STA. 288+00.00

F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	47
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	

LEGEND

	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		



PEN TABLE: IDOTSSZ_Standard Project Penet
 DRIVER: 2211 BRADLEY AVENUE
 SHEET: CHAMPAIGN, ILLINOIS 61821
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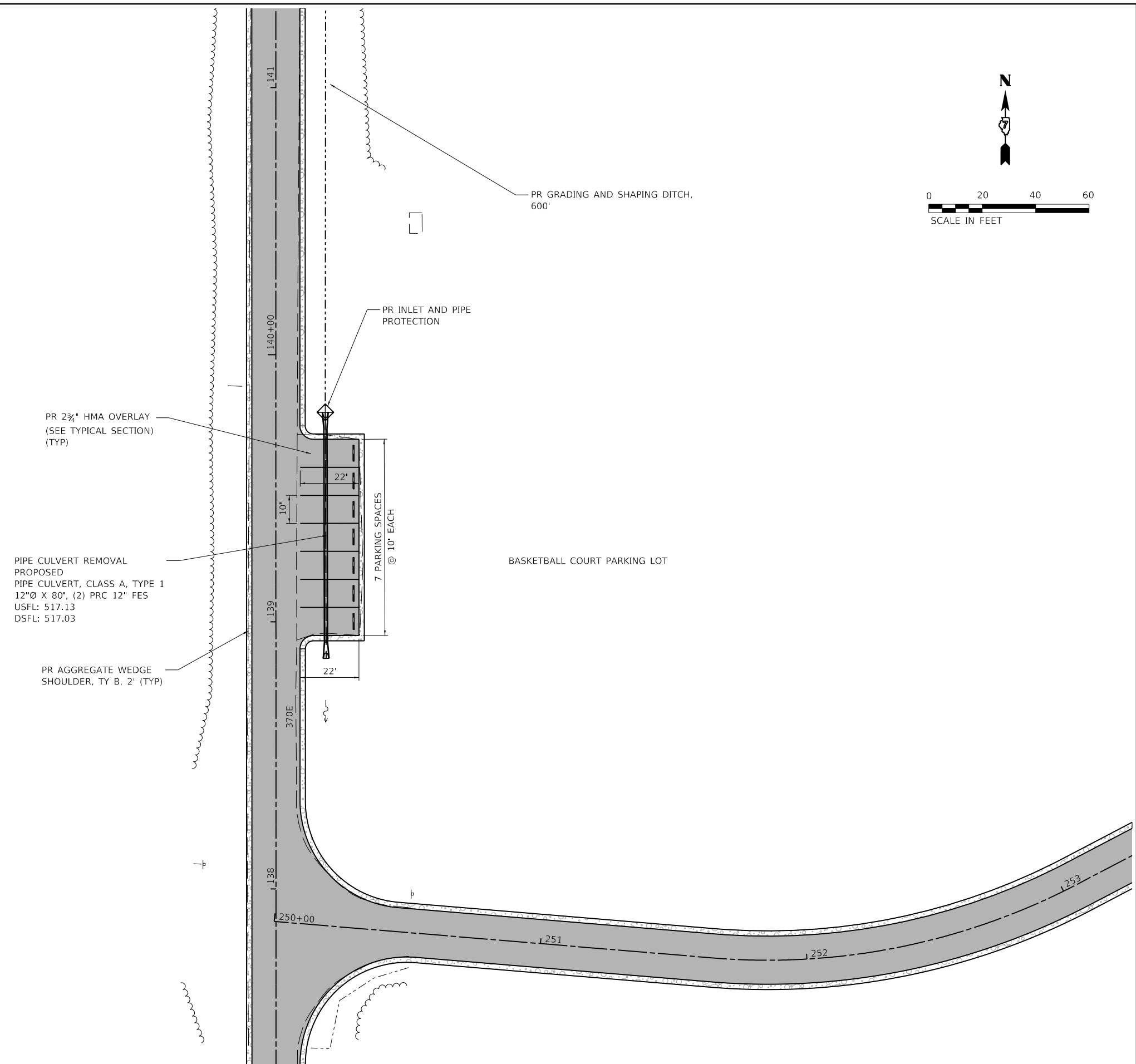
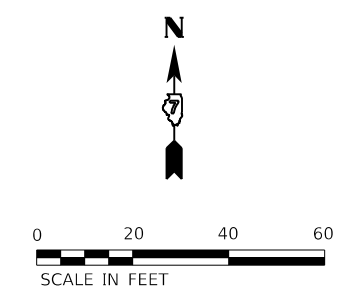
Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = sbsanby	DESIGNED - WLB	REVISED
DRAWN - WLB	REVISIONS	
PLOT SCALE = 24.00' / ft.	CHECKED - JGG	REVISED
PLOT DATE = 2/14/2021 11:16:37 PM	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 250 ENTRANCE PARKING LOT PLAN	
RED HILLS STATE PARK	
SCALE: AS NOTED	TO STA. -
SHEET 1 OF 16 SHEETS	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	48
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



PR 2 3/4" HMA OVERLAY
(SEE TYPICAL SECTION)
(TYP)

PIPE CULVERT REMOVAL
PROPOSED
PIPE CULVERT, CLASS A, TYPE 1
12"Ø X 80', (2) PRC 12" FES
USFL: 517.13
DSFL: 517.03

PR AGGREGATE WEDGE
SHOULDER, TY B, 2' (TYP)

BASKETBALL COURT PARKING LOT

LEGEND			
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

PEN TABLE: IDOTSSA_Standard Project Pen...
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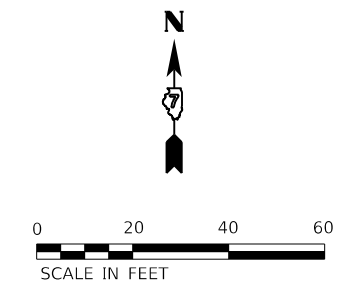
Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = s#sanby	DESIGNED - WLB	REVISED
PLOT SCALE = 24.00' / ft.	DRAWN - WLB	REVISED
PLOT DATE = 2/14/2021	CHECKED - JGG	REVISED
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BASKETBALL COURT PARKING LOT PLAN
RED HILLS STATE PARK**
 SCALE: AS NOTED SHEET 2 OF 16 SHEETS STA. - TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	49
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



PR AGGREGATE WEDGE SHOULDER, TY B, 2" (TYP)

REMOVE AND REPLACE PR PCC SIDEWALK 6" 60 SF

4 PARKING SPACES @ 10' EACH

PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)

VOLLEYBALL COURT PARKING LOT

LEGEND			
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2" (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

PEN TABLE: IDOTSSA_Standard Project Pen...
 DRIVER: ...
 SHEET: ...

Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = sjsanby
 PLOT SCALE = 24.00' / ft.
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 DRAWN - WLB
 CHECKED - JGG
 DATE - 02/12/2021

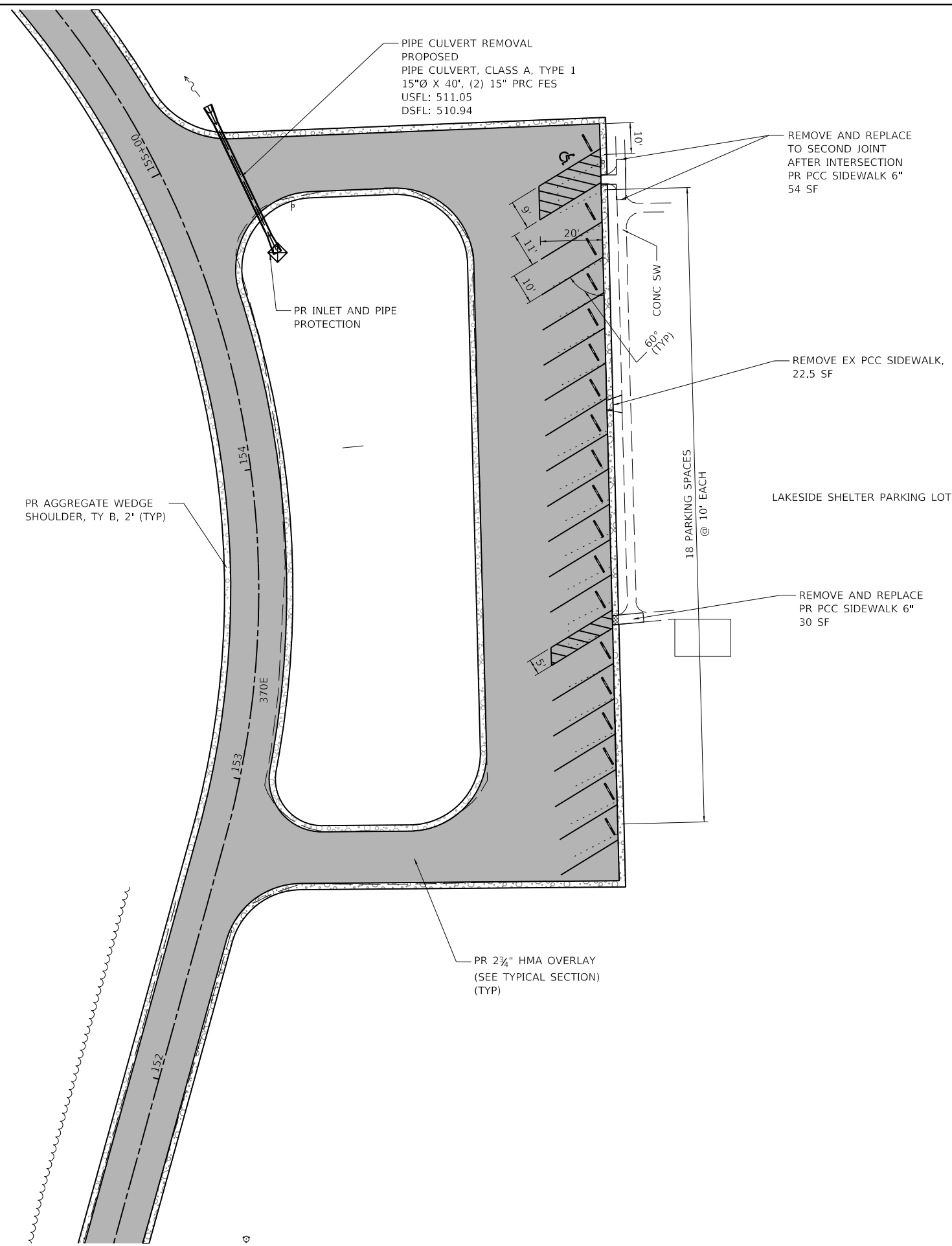
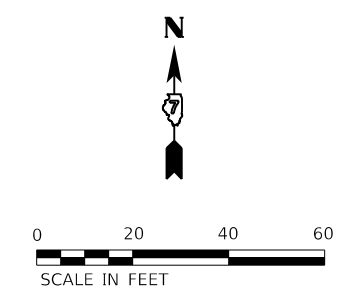
REVISED
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**VOLLEYBALL COURT PARKING LOT PLAN
 RED HILLS STATE PARK**

SCALE: AS NOTED SHEET 3 OF 16 SHEETS STA. - TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	RED HILLS 2021	LAWRENCE	98	50
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



LEGEND			
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

PEN TABLE: IDOTSSA_Standard Project Penet...
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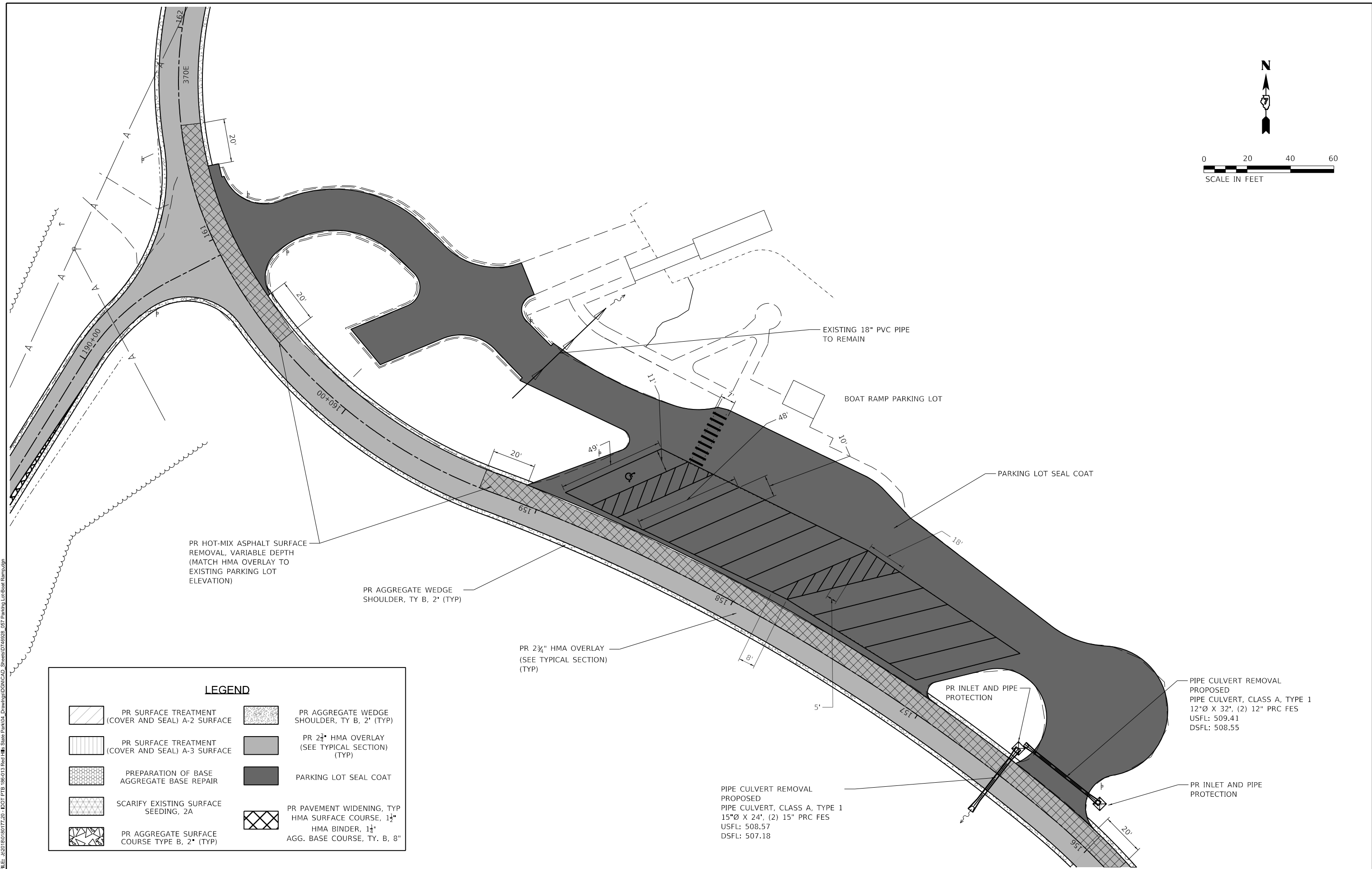
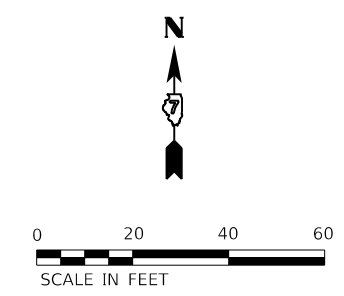
Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = s#sanby	DESIGNED - WLB	REVISED
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PLOT DATE = 2/14/2021 11:16:42 PM	CHECKED - JGG	REVISED
	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKESIDE SHELTER PARKING LOT PLAN RED HILLS STATE PARK			
SCALE: AS NOTED	SHEET 4 OF 16 SHEETS	STA. -	TO STA. -

F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	51
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



PR HOT-MIX ASPHALT SURFACE
REMOVAL, VARIABLE DEPTH
(MATCH HMA OVERLAY TO
EXISTING PARKING LOT
ELEVATION)

PR AGGREGATE WEDGE
SHOULDER, TY B, 2' (TYP)

PR 2 3/4" HMA OVERLAY
(SEE TYPICAL SECTION)
(TYP)

EXISTING 18" PVC PIPE
TO REMAIN

BOAT RAMP PARKING LOT

PARKING LOT SEAL COAT

PR INLET AND PIPE
PROTECTION

PIPE CULVERT REMOVAL
PROPOSED
PIPE CULVERT, CLASS A, TYPE 1
12"Ø X 32', (2) 12" PRC FES
USFL: 509.41
DSFL: 508.55

PIPE CULVERT REMOVAL
PROPOSED
PIPE CULVERT, CLASS A, TYPE 1
15"Ø X 24', (2) 15" PRC FES
USFL: 508.57
DSFL: 507.18

PR INLET AND PIPE
PROTECTION

LEGEND			
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TY HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/2" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2' (TYP)		

PEN TABLE: IDOTSSA_Standard Project Penetral
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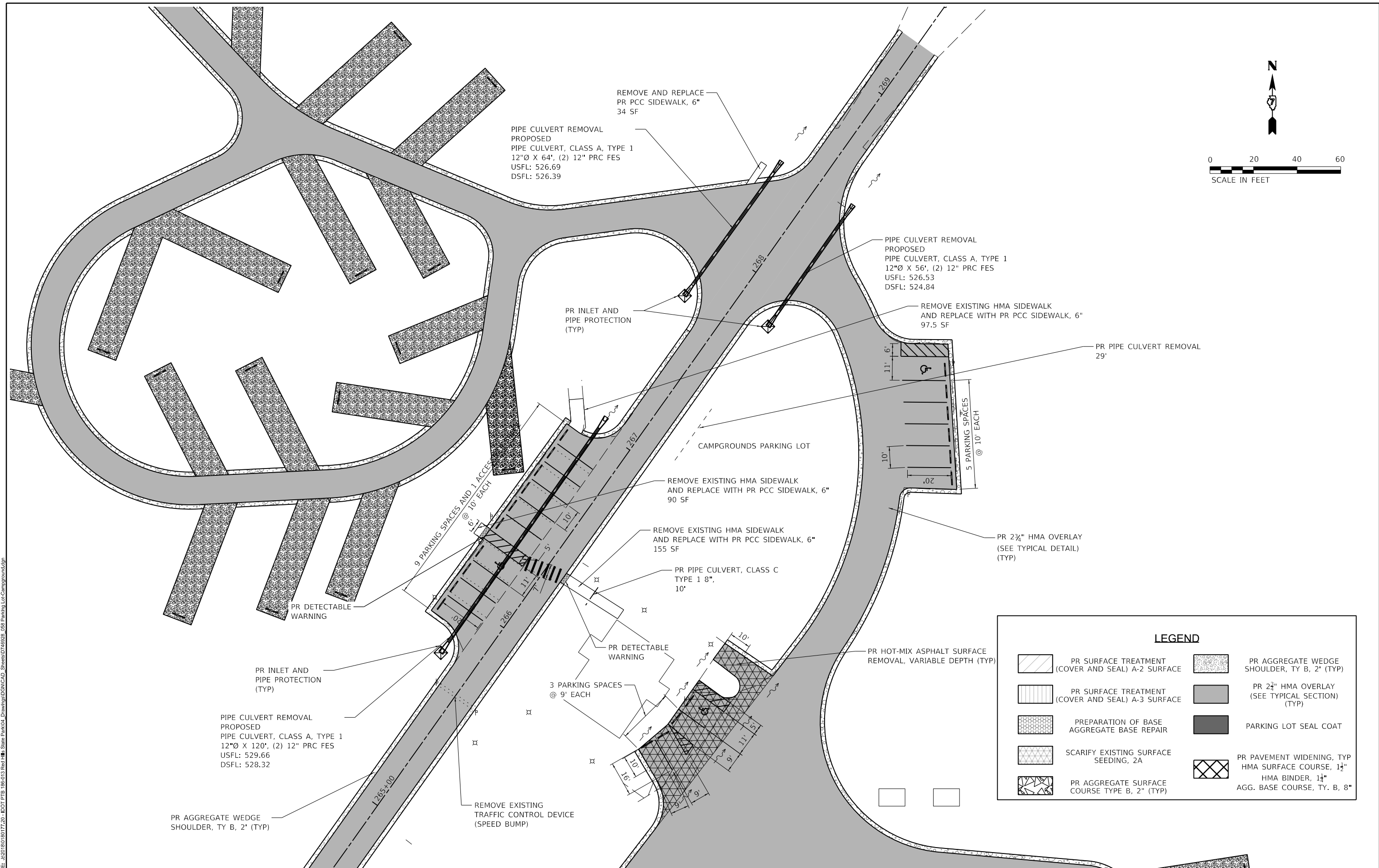
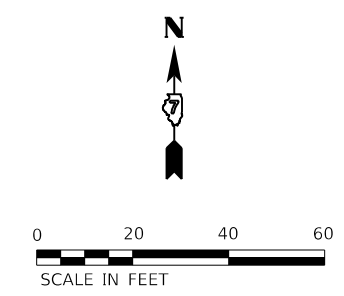
Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@fw.com

USER NAME = sllsanby	DESIGNED - WLB	REVISED
PLOT SCALE = 24.00' / ft.	DRAWN - WLB	REVISED
PLOT DATE = 2/14/2021	CHECKED - JGG	REVISED
11:16:44 PM	DATE - 02/12/2021	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BOAT RAMP PARKING LOT PLAN RED HILLS STATE PARK			
SCALE: AS NOTED	SHEET 5 OF 16 SHEETS	STA. -	TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	52
CONTRACT NO. 46928			ILLINOIS FED. AID PROJECT	



LEGEND			
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4\" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2\" HMA BINDER, 1 1/4\" AGG. BASE COURSE, TY. B, 8\"
	PR AGGREGATE SURFACE COURSE TYPE B, 2\" (TYP)		

PLOT SCALE = 24.00' / 1"

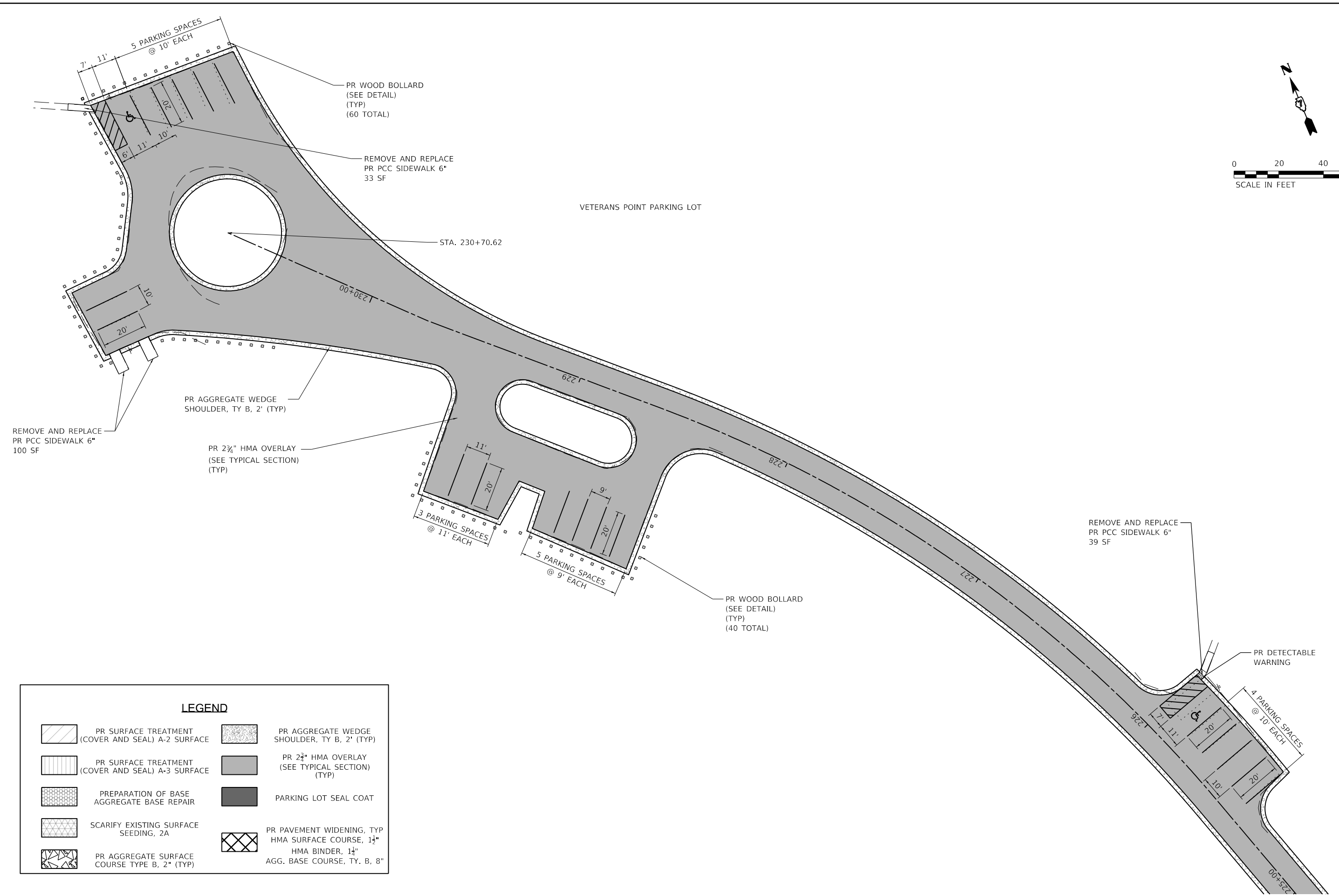
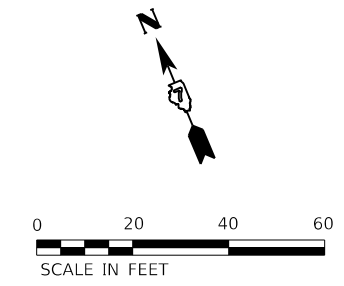
Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = sjsanby	DESIGNED - WLB	REVISIONS
PLOT SCALE = 24.00' / 1"	DRAWN - WLB	REVISIONS
PLOT DATE = 2/14/2021	CHECKED - JGG	REVISIONS
11:16:45 PM	DATE - 02/12/2021	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAMPGROUND PARKING LOT PLAN RED HILLS STATE PARK	
SCALE: AS NOTED	TO STA. -
SHEET 6 OF 16 SHEETS	

F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	53
CONTRACT NO. 46928				
ILLINOIS FED. AID PROJECT				



LEGEND

	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

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Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

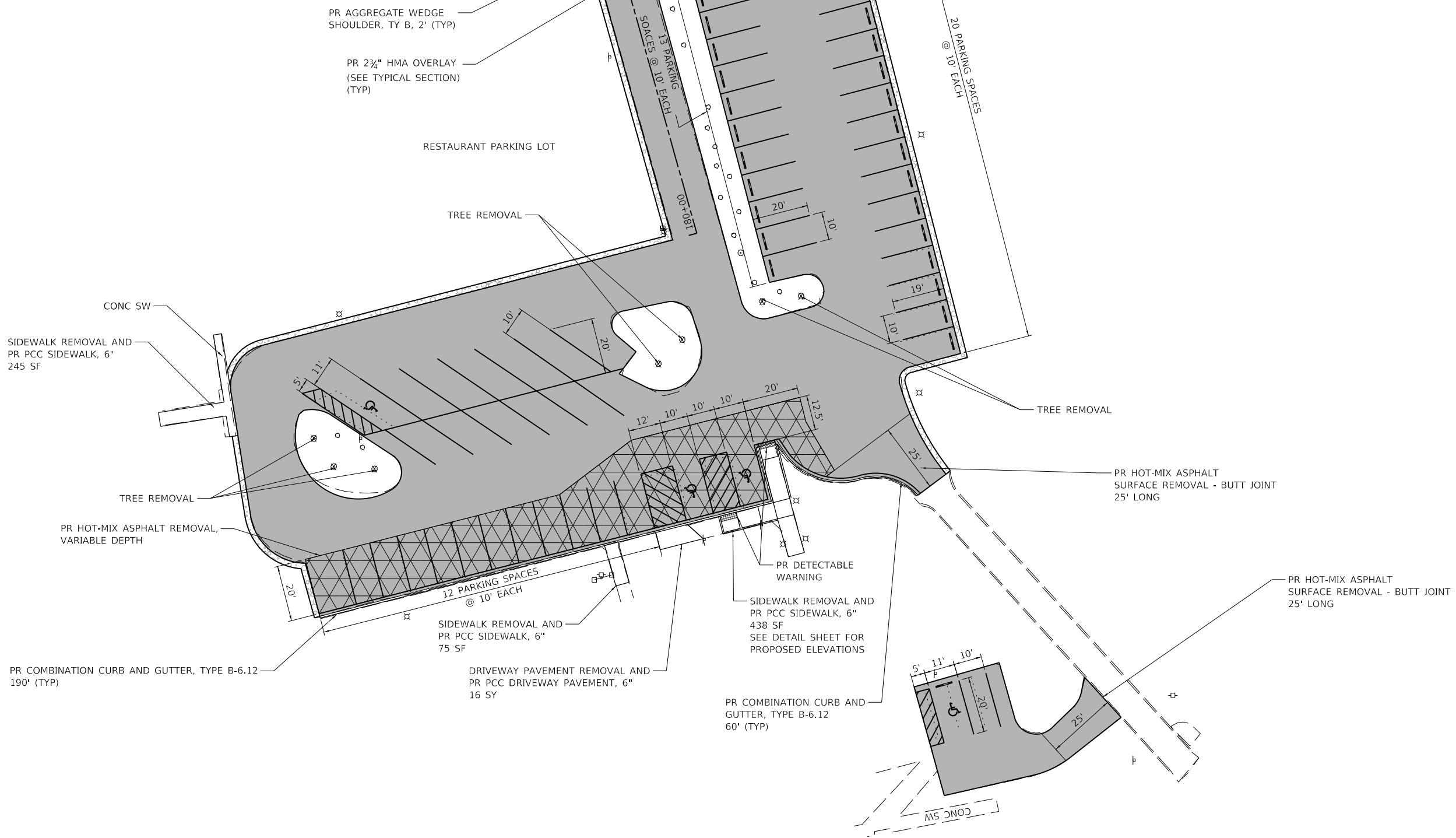
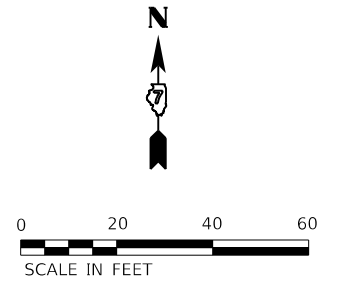
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	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VETERANS POINT PARKING LOT PLAN	
RED HILLS STATE PARK	
SCALE: AS NOTED	SHEET 7 OF 16 SHEETS
STA. -	TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	54
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	

LEGEND			
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/2" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		



PEN TABLE: DOTSSZ_Standard Project Penet
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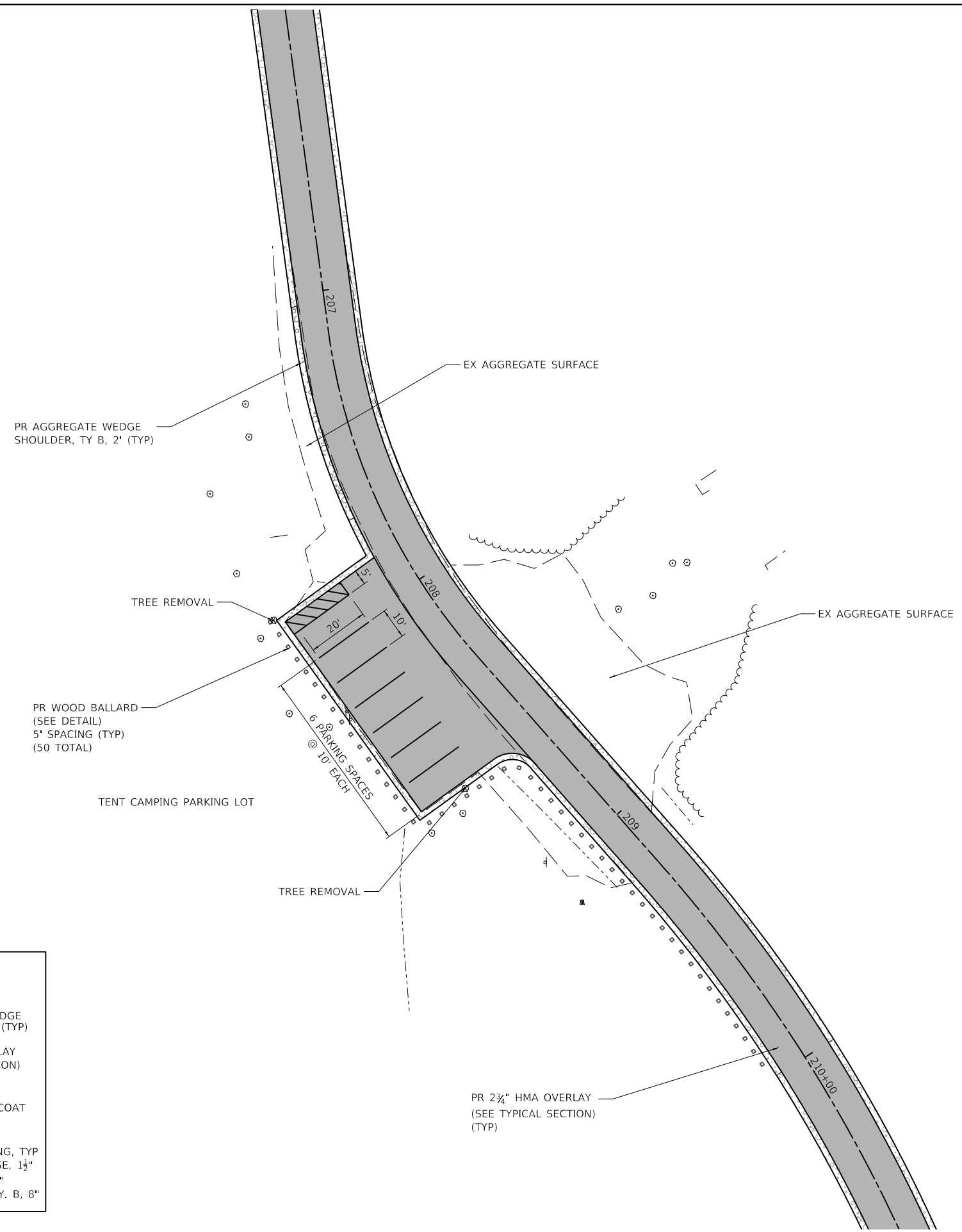
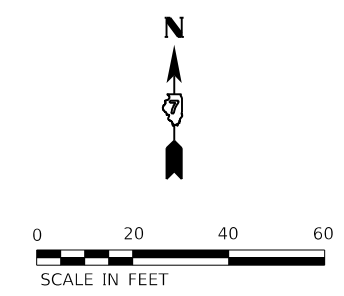


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	DATE - 02/12/2021	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RESTAURANT PARKING LOT PLAN RED HILLS STATE PARK			
SCALE: AS NOTED	SHEET 8 OF 16 SHEETS	STA. -	TO STA. -

F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	55
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



LEGEND

	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

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Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

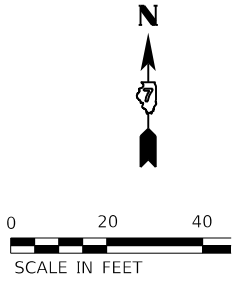
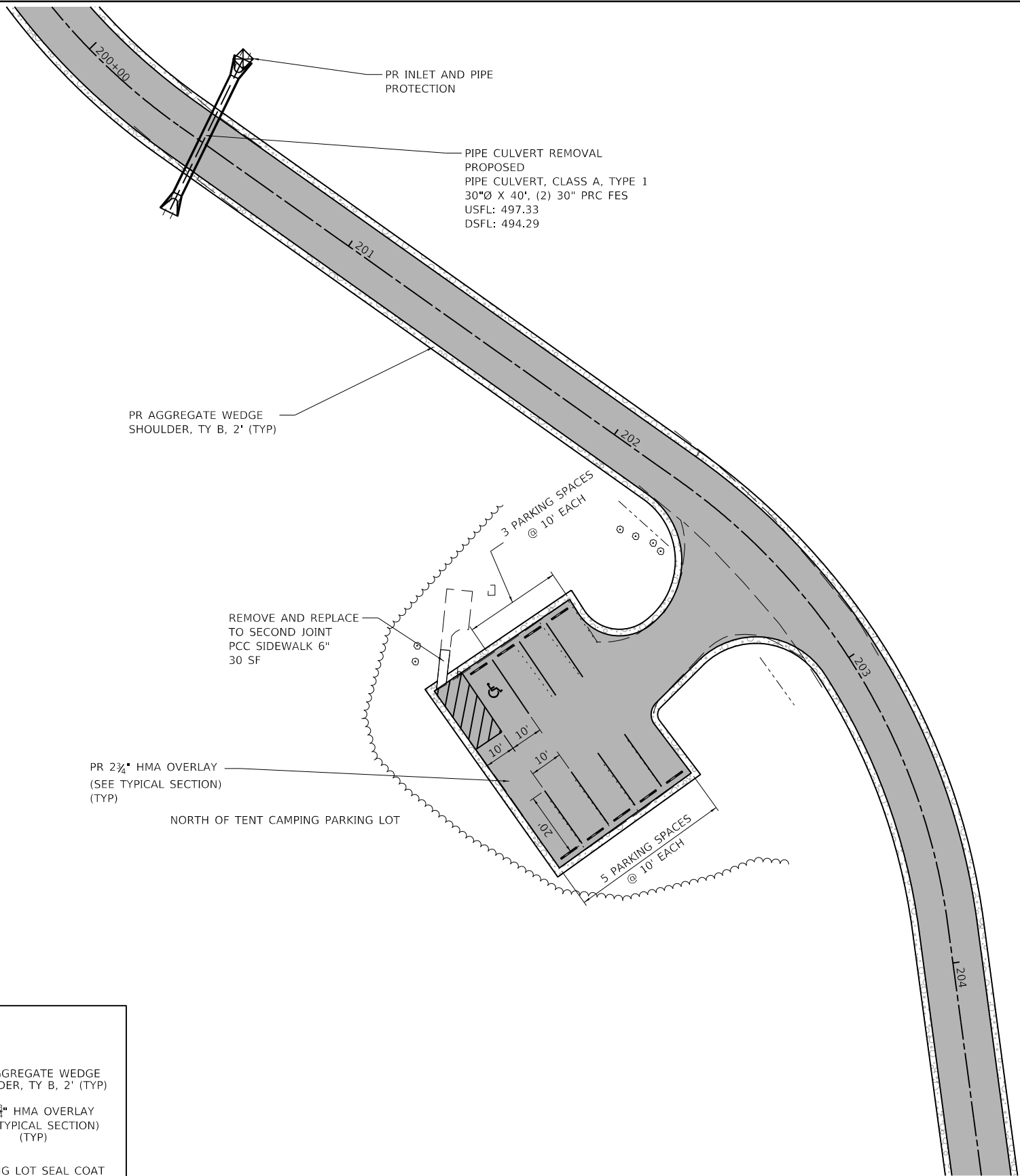
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TENT CAMPING PARKING LOT PLAN
 RED HILLS STATE PARK**

SCALE: AS NOTED SHEET 9 OF 16 SHEETS STA. - TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	56
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



LEGEND			
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

PEN TABLE: IDOTSSA_Standard Project Penet...
 DRIVER: ...
 SHEET: ...

Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@fw.com

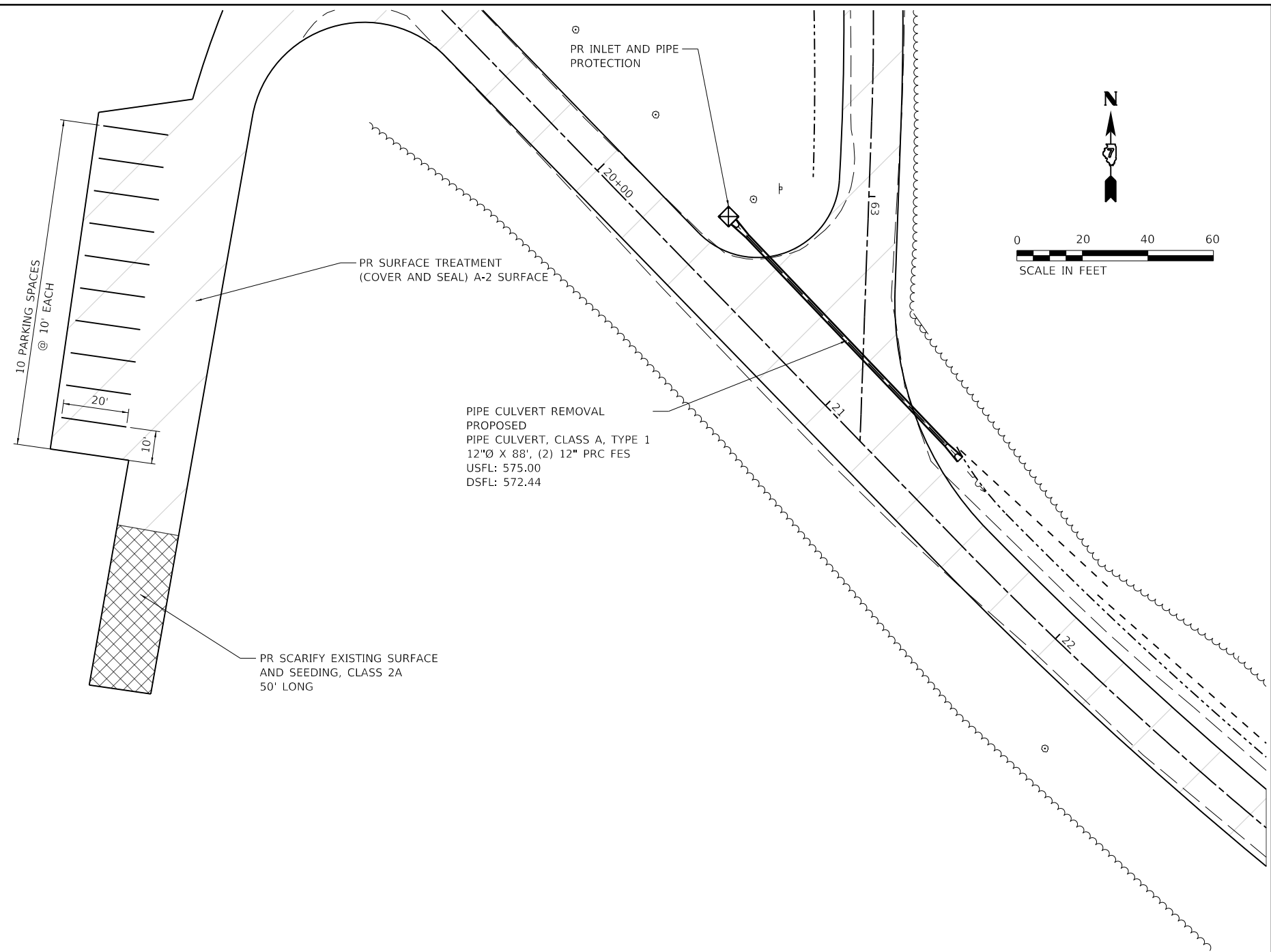
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	DATE - 02/12/2021	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH OF TENT CAMPING PARKING LOT PLAN
 RED HILLS STATE PARK**

SCALE: AS NOTED SHEET 10 OF 16 SHEETS STA. - TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	57
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



NORTHWIND SHELTER PARKING 1

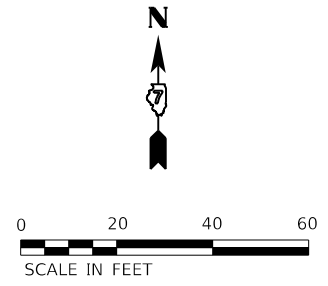
10 PARKING SPACES
@ 10' EACH

PR SURFACE TREATMENT
(COVER AND SEAL) A-2 SURFACE

PR INLET AND PIPE
PROTECTION

PIPE CULVERT REMOVAL
PROPOSED
PIPE CULVERT, CLASS A, TYPE 1
12"Ø X 88', (2) 12" PRC FES
USFL: 575.00
DSFL: 572.44

PR SCARIFY EXISTING SURFACE
AND SEEDING, CLASS 2A
50' LONG



LEGEND

	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH WIND SHELTER PARKING LOT 1 PLAN
RED HILLS STATE PARK

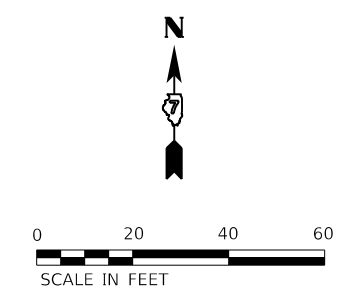
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F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	58
CONTRACT NO. 46928				
ILLINOIS		FED. AID PROJECT		

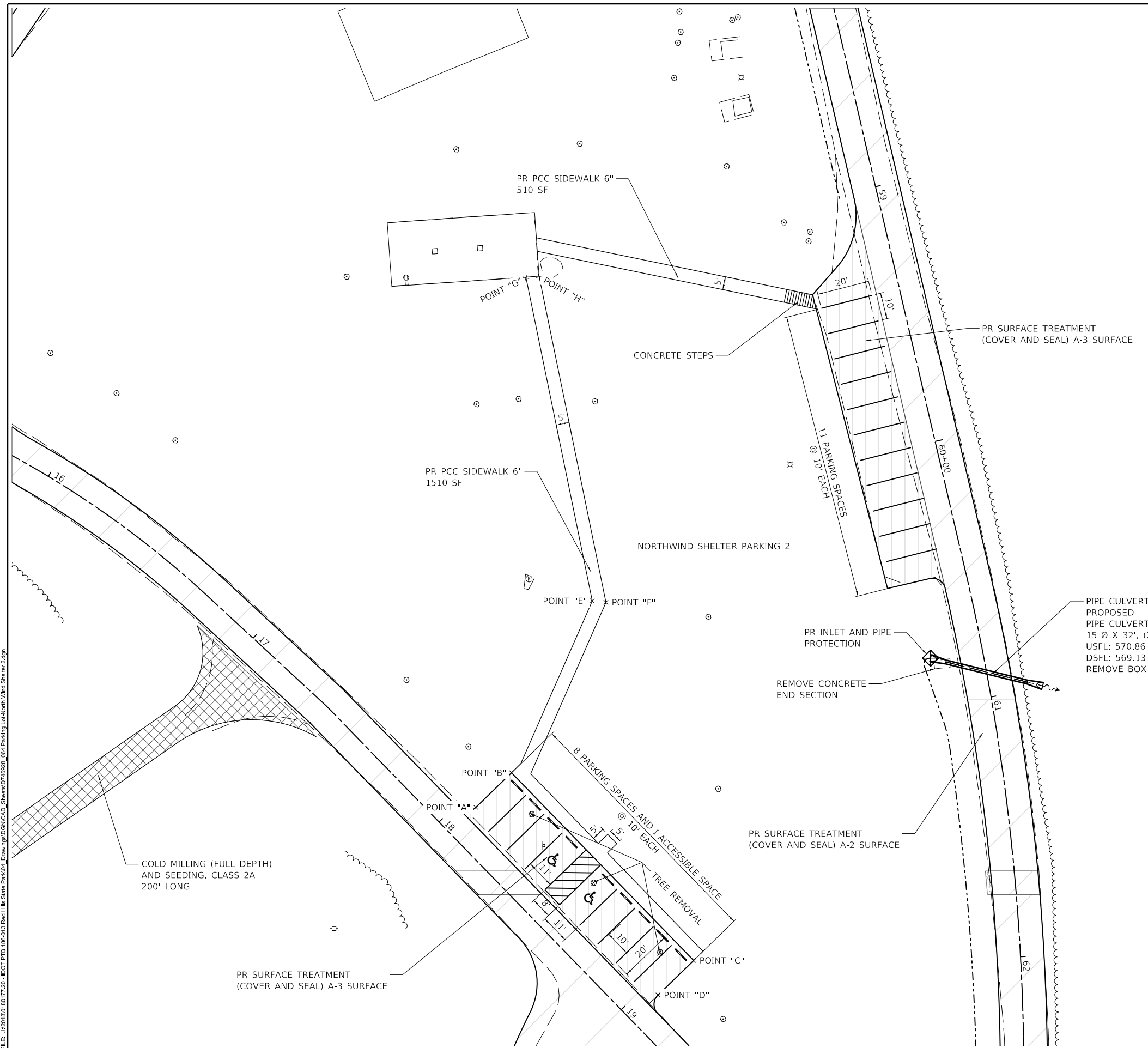
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GROUP
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CHAMPAIGN, ILLINOIS 61821
(217) 352-7408 / info@f-w.com

USER NAME = s#sanby	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
PLOT SCALE = 24.00' / ft.	CHECKED - JGG	REVISED
PLOT DATE = 2/14/2021 11:16:56 PM	DATE - 02/12/2021	REVISED



NORTHWIND SHELTER PARKING ELEVATIONS				
POINT	NORTHING	EASTING	ELEV	NOTE
A	1124816.05	753723.86	580.34	NW EOP & 5' RADIUS
B	1124829.68	753737.10	580.72	NORTH CORNER EOP
C	1124899.33	753665.34	581.64	EAST CORNER EOP
D	1124885.70	753652.11	581.26	SE EOP & 5' RADIUS
E	1124860.56	753802.78	585.10	SW EDGE LEFT MID
F	1124865.77	753802.23	585.13	SW EDGE RIGHT MID
G	1124835.26	753926.29	583.53	SW NW TIE IN
H	1124840.19	753927.14	583.55	SW NE TIE IN



LEGEND			
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2" (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 1/2" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

PEN TABLE: IDOTSSA_Standard Project Penetration
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Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

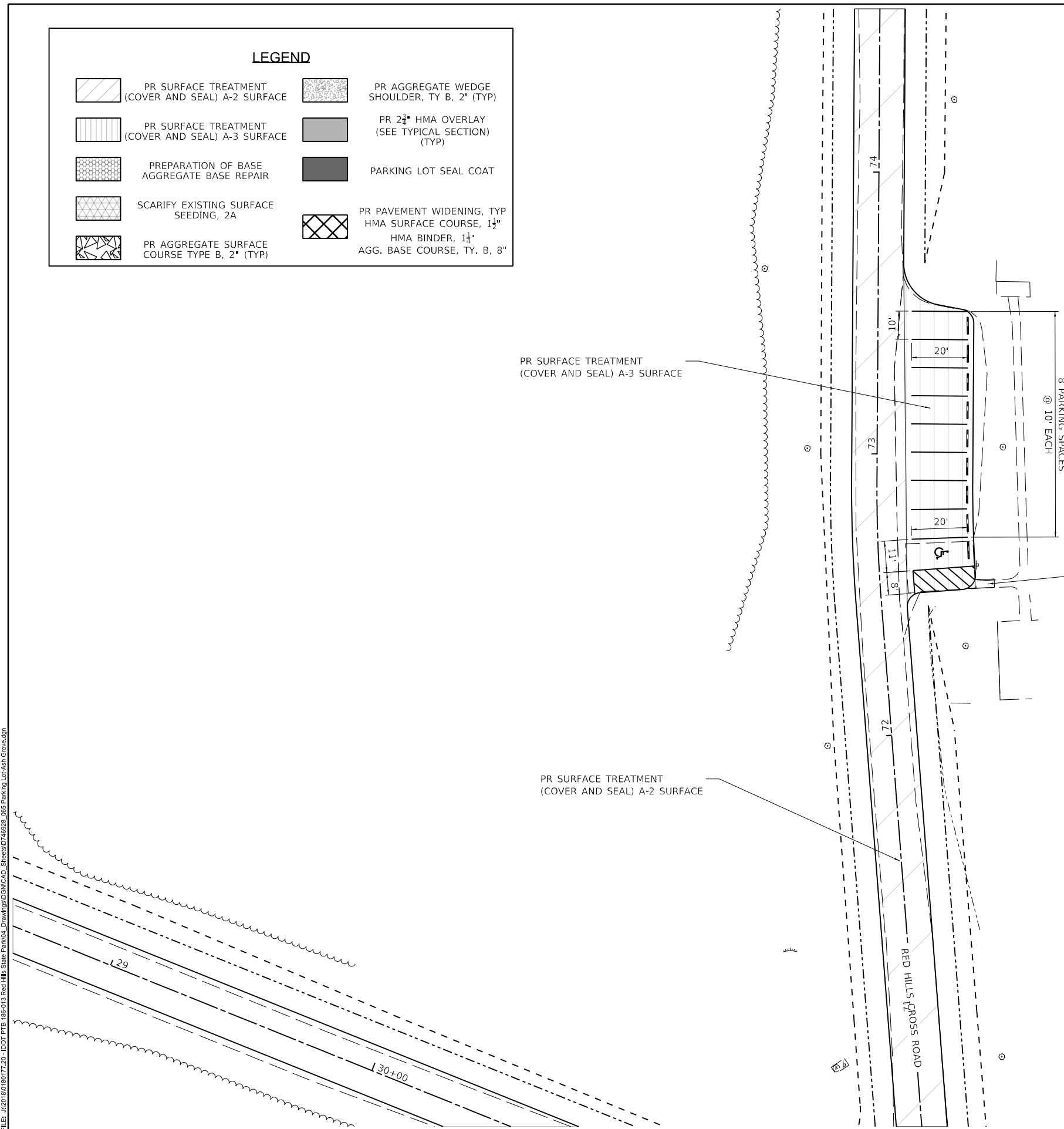
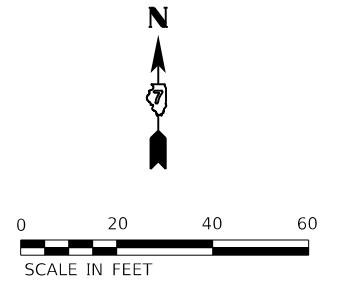
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: AS NOTED		SHEET 12 OF 16 SHEETS		STA. -	TO STA. -
NORTH WIND SHELTER PARKING LOT 2 PLAN RED HILLS STATE PARK					

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	59
			CONTRACT NO. 46928	
		ILLINOIS		FED. AID PROJECT

LEGEND			
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/4" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2' (TYP)		



PEN TABLE: DOT'SSA_Standard Project Pen.tbl
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Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

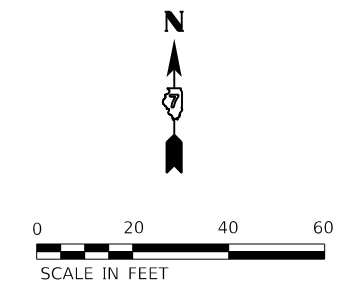
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ASH GROVE PARKING LOT PLAN
RED HILLS STATE PARK**

SCALE: AS NOTED SHEET 13 OF 16 SHEETS STA. - TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	60
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	

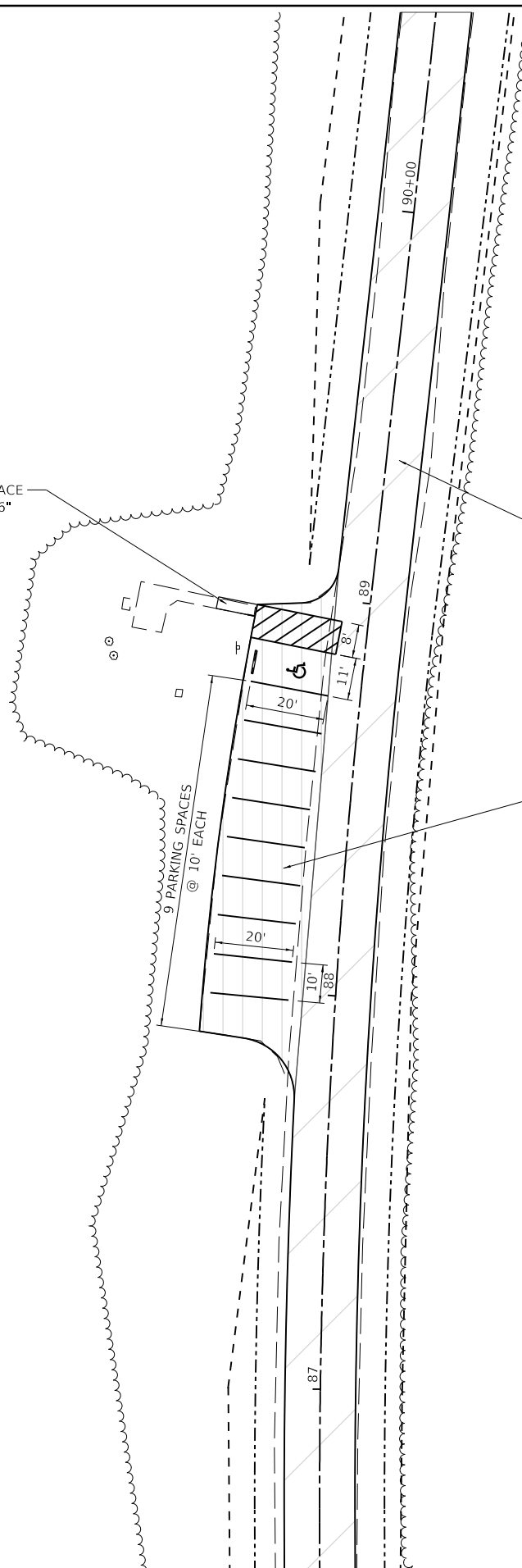


REMOVE AND REPLACE
PR PCC SIDEWALK 6"
30 SF

PR SURFACE TREATMENT
(COVER AND SEAL) A-2 SURFACE

PR SURFACE TREATMENT
(COVER AND SEAL) A-3 SURFACE

9 PARKING SPACES
@ 10' EACH



LEGEND

	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 1/2" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

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 SHEET: \\dotssz\Standard Project\Penel...

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 GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

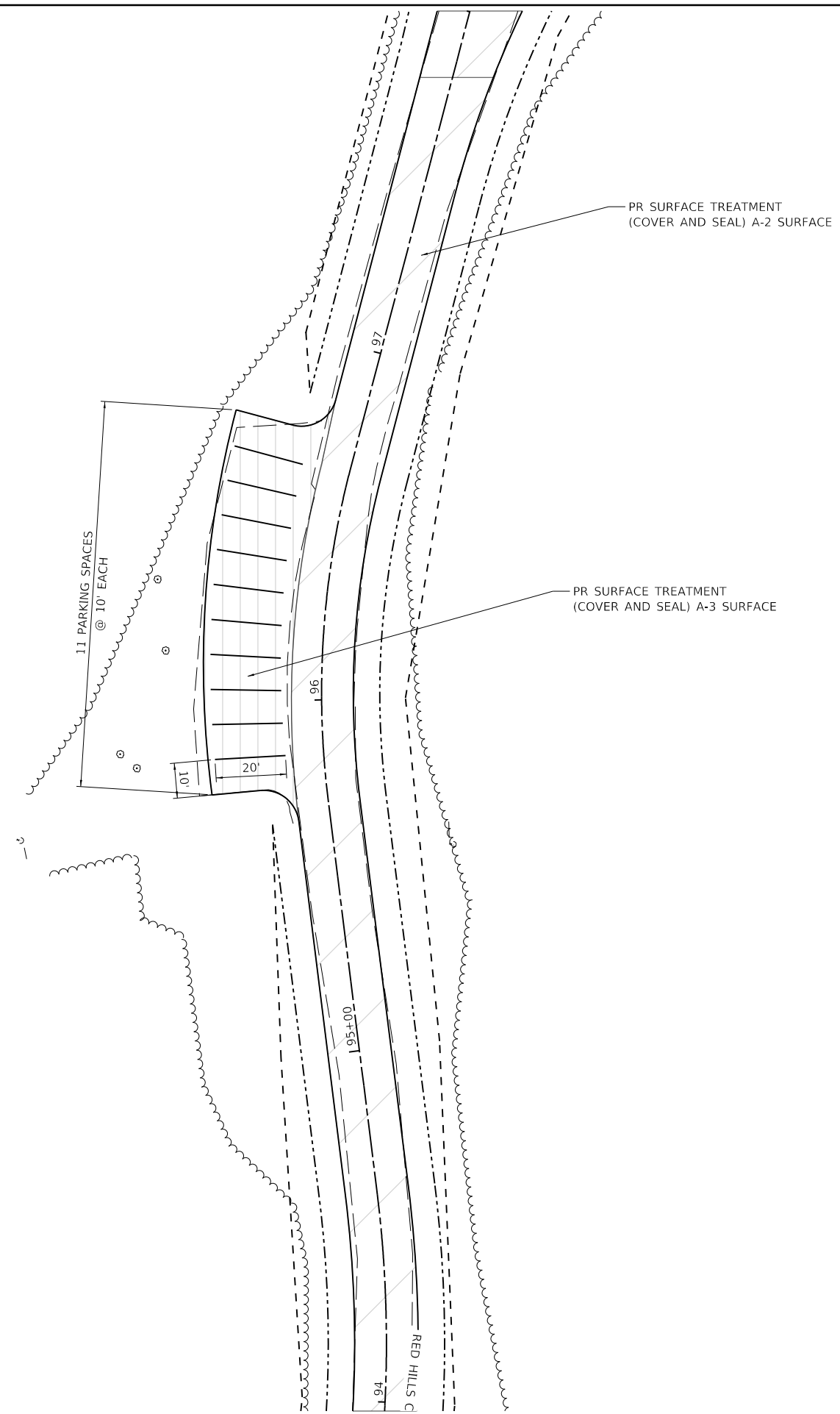
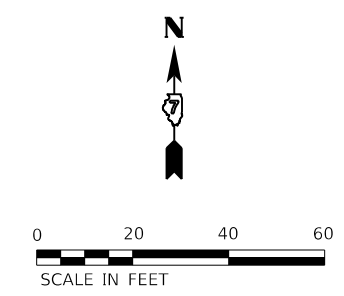
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	DATE = 02/12/2021	REVISED

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




RED HILLS CROSS SOUTH PARKING LOT PLAN
RED HILLS STATE PARK

SCALE: AS NOTED SHEET 14 OF 16 SHEETS STA. - TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	61
CONTRACT NO. 46928			ILLINOIS FED. AID PROJECT	



LEGEND

	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 1/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/4" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

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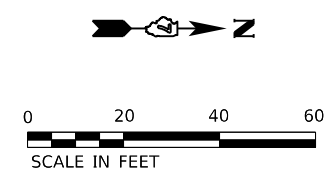
Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = sjsanby	DESIGNED - WLB	REVISED
PLOT SCALE = 24.00' / ft.	DRAWN - WLB	REVISED
PLOT DATE = 2/14/2021 11:17:02 PM	CHECKED - JGG	REVISED
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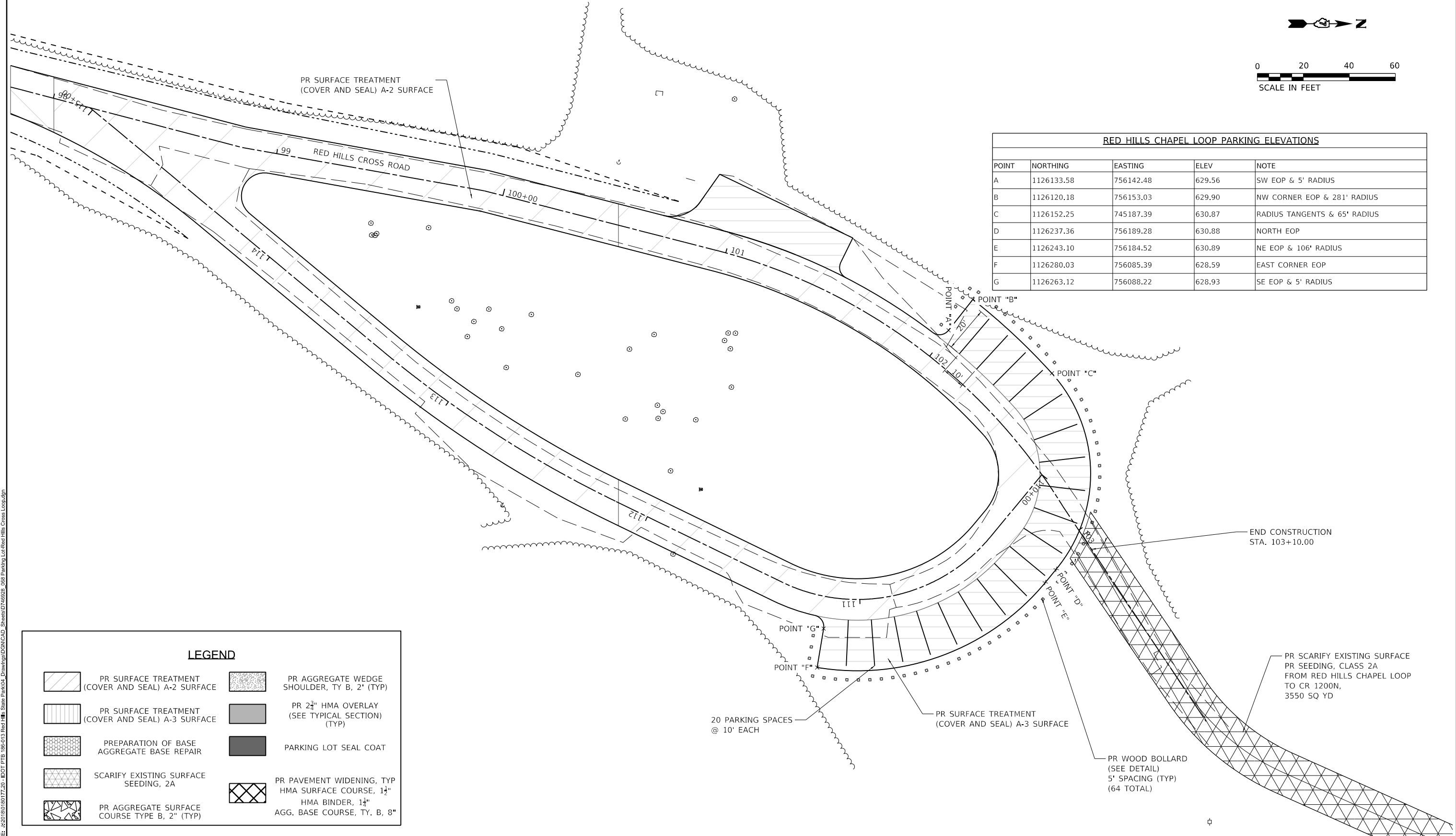
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RED HILLS CROSS NORTH PARKING LOT PLAN			
RED HILLS STATE PARK			
SCALE: AS NOTED	SHEET 15 OF 16 SHEETS	STA. -	TO STA. -

F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	62
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



RED HILLS CHAPEL LOOP PARKING ELEVATIONS				
POINT	NORTHING	EASTING	ELEV	NOTE
A	1126133.58	756142.48	629.56	SW EOP & 5' RADIUS
B	1126120.18	756153.03	629.90	NW CORNER EOP & 281' RADIUS
C	1126152.25	745187.39	630.87	RADIUS TANGENTS & 65' RADIUS
D	1126237.36	756189.28	630.88	NORTH EOP
E	1126243.10	756184.52	630.89	NE EOP & 106' RADIUS
F	1126280.03	756085.39	628.59	EAST CORNER EOP
G	1126263.12	756088.22	628.93	SE EOP & 5' RADIUS



LEGEND			
	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2" (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 1/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

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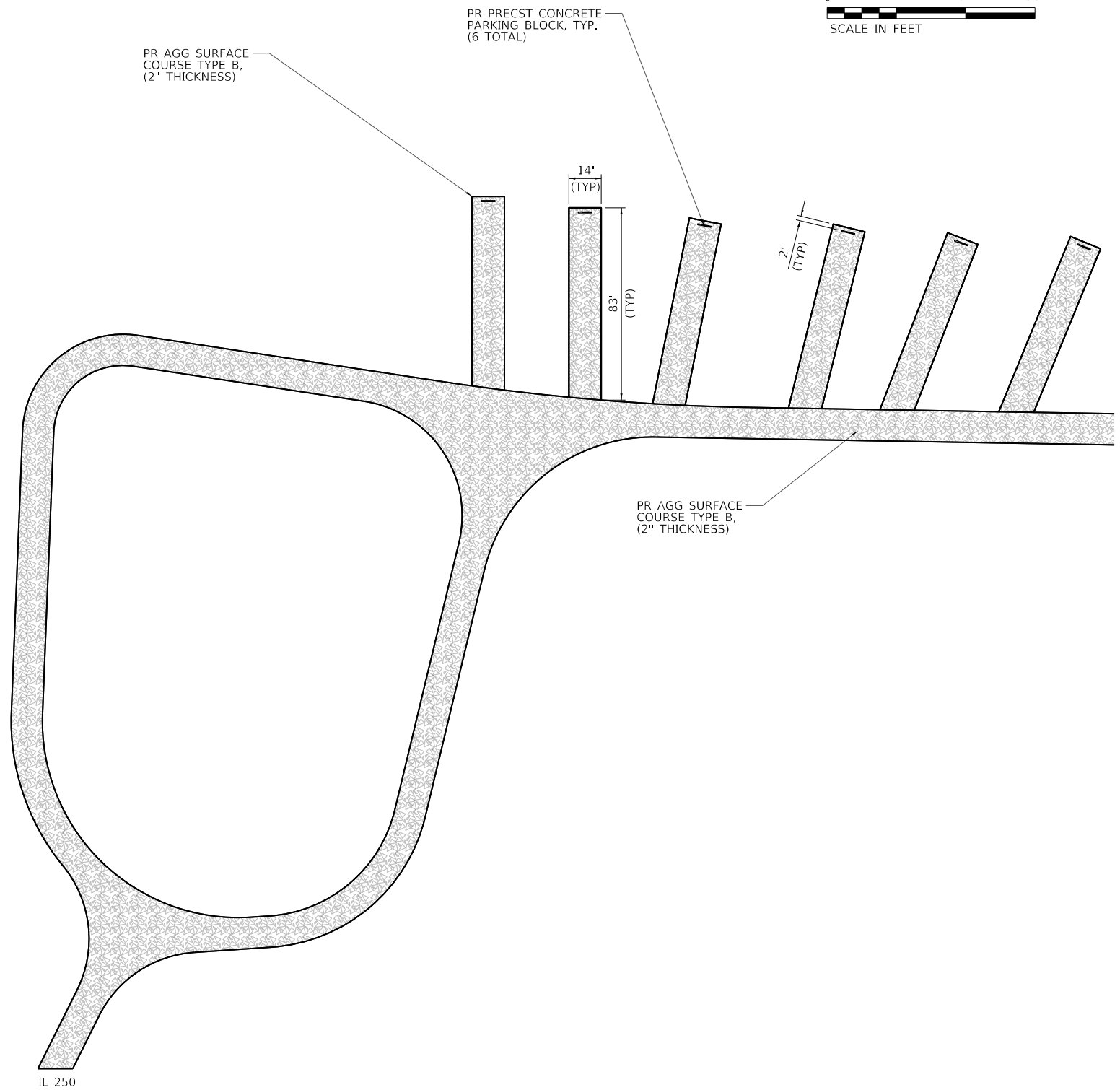
Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = s#sanby	DESIGNED - WLB	REVISED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION










RED HILLS CROSS LOOP PLAN RED HILLS STATE PARK	
SCALE: AS NOTED	TO STA. -
SHEET 16 OF 16 SHEETS	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	63
CONTRACT NO. 46928				
ILLINOIS FED. AID PROJECT				



IL 250

LEGEND

	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2" (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/2" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EQUESTRIAN CAMPGROUND 1 PLAN
RED HILLS STATE PARK**

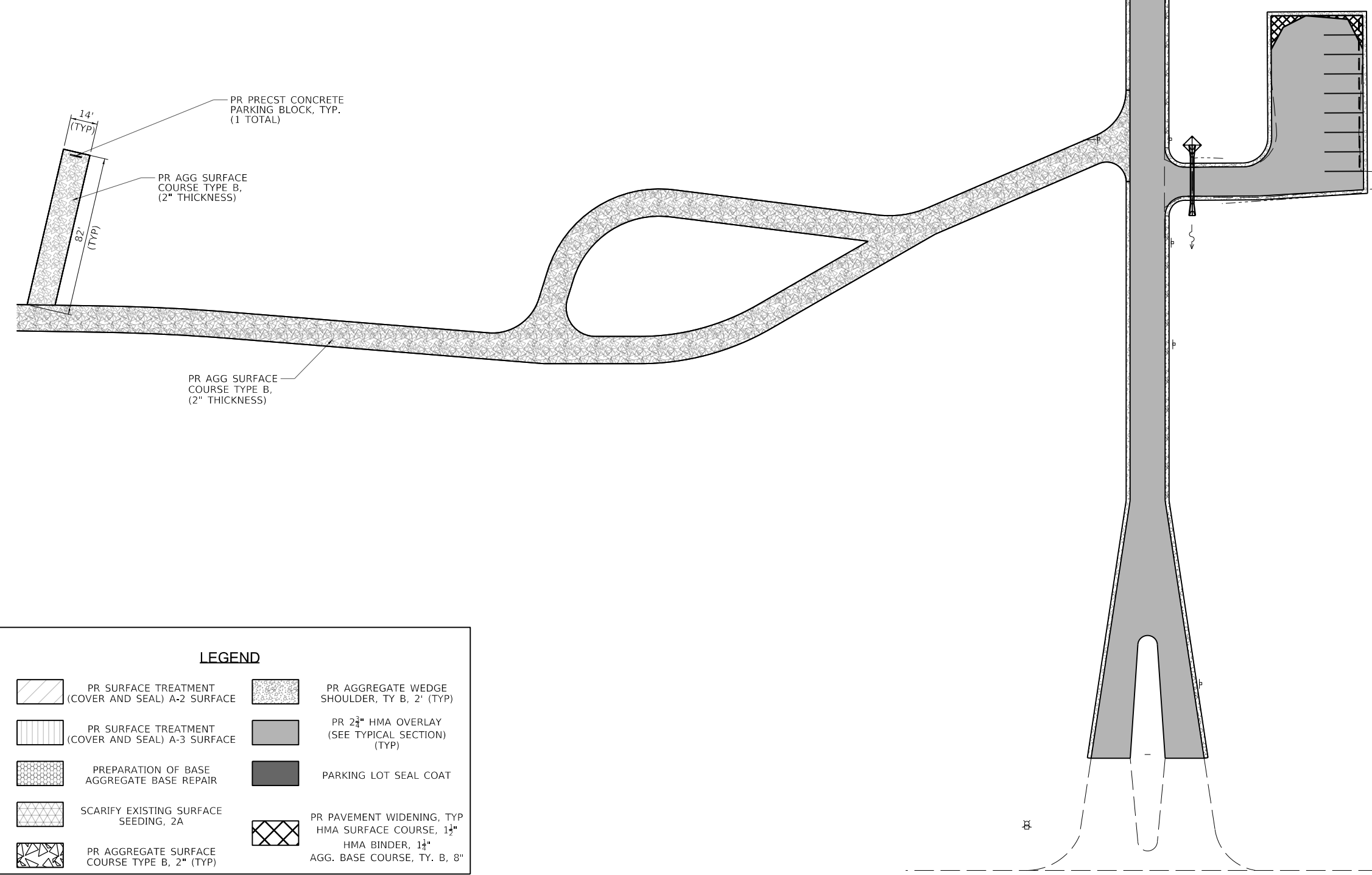
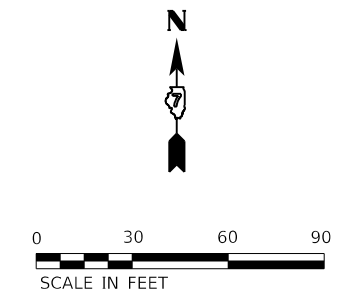
F.A. - RTE. -	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	64
CONTRACT NO. 46928				

SCALE: AS NOTED SHEET 1 OF 4 SHEETS STA. - TO STA. -

USER NAME = sjsanby	DESIGNED - WLB	REVISED
PLOT SCALE = 24.00' / ft.	DRAWN - WLB	REVISED
PLOT DATE = 2/14/2021 11:17:08 PM	CHECKED - JGG	REVISED
	DATE - 02/12/2021	REVISED

Farnsworth GROUP
2211 BRADLEY AVENUE
CHAMPAIGN, ILLINOIS 61821
(217) 352-7408 / info@f-w.com

PEN TABLE: DOTSSA_Standard Project Penet...
 DRIVER: ...
 SHEET: ...



LEGEND

	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2" (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/4" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

PEN TABLE: IDOTSSA_Standard Project Penet...
 DRIVER: ...
 SHEET: ...

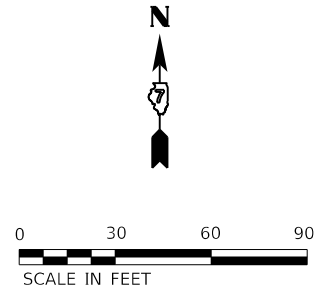
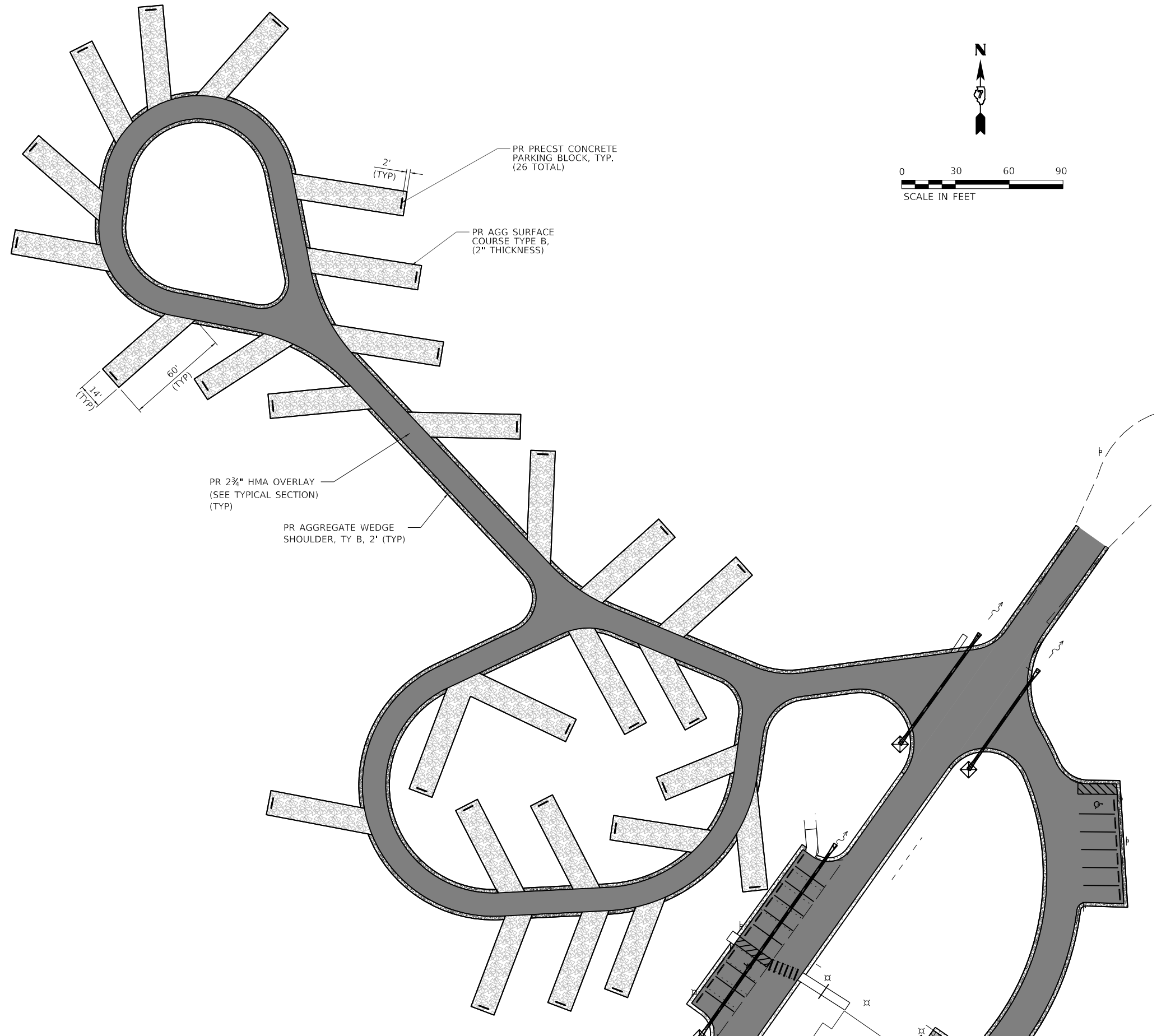
Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = s#sanby	DESIGNED - WLB	REVISED
PLOT SCALE = 24.00' / ft.	DRAWN - WLB	REVISED
PLOT DATE = 2/14/2021 11:17:10 PM	CHECKED - JGG	REVISED
	DATE - 02/12/2021	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EQUESTRIAN CAMPGROUNDS 2 PLAN RED HILLS STATE PARK	
SCALE: AS NOTED	TO STA. -
SHEET 2 OF 4 SHEETS	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	RED HILLS 2021	LAWRENCE	98	65
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



LEGEND

	PR SURFACE TREATMENT (COVER AND SEAL) A-2 SURFACE		PR AGGREGATE WEDGE SHOULDER, TY B, 2' (TYP)
	PR SURFACE TREATMENT (COVER AND SEAL) A-3 SURFACE		PR 2 3/4" HMA OVERLAY (SEE TYPICAL SECTION) (TYP)
	PREPARATION OF BASE AGGREGATE BASE REPAIR		PARKING LOT SEAL COAT
	SCARIFY EXISTING SURFACE SEEDING, 2A		PR PAVEMENT WIDENING, TYP HMA SURFACE COURSE, 1 1/2" HMA BINDER, 1 1/2" AGG. BASE COURSE, TY. B, 8"
	PR AGGREGATE SURFACE COURSE TYPE B, 2" (TYP)		

PLOT DATE = 2/14/2021 11:17:12 PM
 FILE: \\s010101\18171720 - DOT\ITS - State Parks\Drawings\DC\DCAD_Sheets\0746928_071 Campgrounds 1.dgn
 DOTSSA_Standard Project Plan.dwg
 DRIVER:

Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

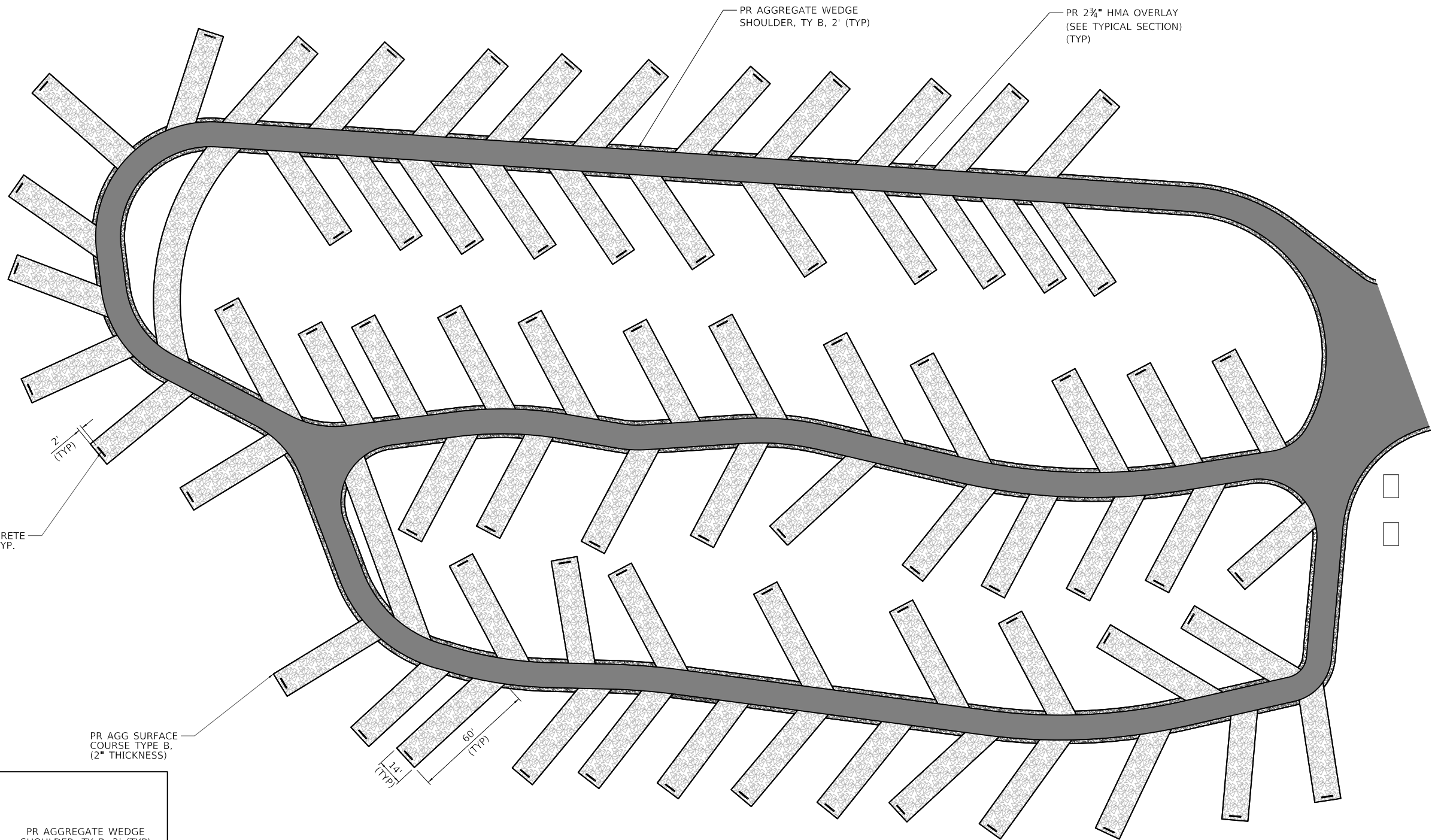
USER NAME = sjsanby	DESIGNED - WLB	REVISED
PLOT SCALE = 24.00 1/16"	DRAWN - WLB	REVISED
PLOT DATE = 2/14/2021	CHECKED - JGG	REVISED
	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAMPGROUNDS 1 PLAN
RED HILLS STATE PARK

SCALE: AS NOTED SHEET 3 OF 4 SHEETS STA. 120+00.00 TO STA. 132+00.00










F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	66
			CONTRACT NO. 46928	
ILLINOIS FED. AID PROJECT				



PR PRECAST CONCRETE
PARKING BLOCK, TYP.
(75 TOTAL)

PR AGG SURFACE
COURSE TYPE B,
(2" THICKNESS)

LEGEND

- | | | | |
|---|--|---|--|
|  | PR SURFACE TREATMENT
(COVER AND SEAL) A-2 SURFACE |  | PR AGGREGATE WEDGE
SHOULDER, TY B, 2' (TYP) |
|  | PR SURFACE TREATMENT
(COVER AND SEAL) A-3 SURFACE |  | PR 2 3/4" HMA OVERLAY
(SEE TYPICAL SECTION)
(TYP) |
|  | PREPARATION OF BASE
AGGREGATE BASE REPAIR |  | PARKING LOT SEAL COAT |
|  | SCARIFY EXISTING SURFACE
SEEDING, 2A |  | PR PAVEMENT WIDENING, TYP
HMA SURFACE COURSE, 1 1/2"
HMA BINDER, 1 1/4"
AGG. BASE COURSE, TY. B, 8" |
|  | PR AGGREGATE SURFACE
COURSE TYPE B, 2" (TYP) | | |

PEN TABLE: IDOTSSA_Standard Project Penetration
 DRIVER: S:\Projects\2021\Red Hills State Park\Drawings\DCN\CAD_Sheets\0746928_072 Campgrounds 2.dgn
 SHEET: 46928_072_01.dwg

Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@f-w.com

USER NAME = sjsanby	DESIGNED - WLB	REVISED
PLOT SCALE = 24.00' / ft.	DRAWN - WLB	REVISED
PLOT DATE = 2/14/2021	CHECKED - JGG	REVISED
11:17:17 PM	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAMPGROUNDS 2 PLAN
RED HILLS STATE PARK

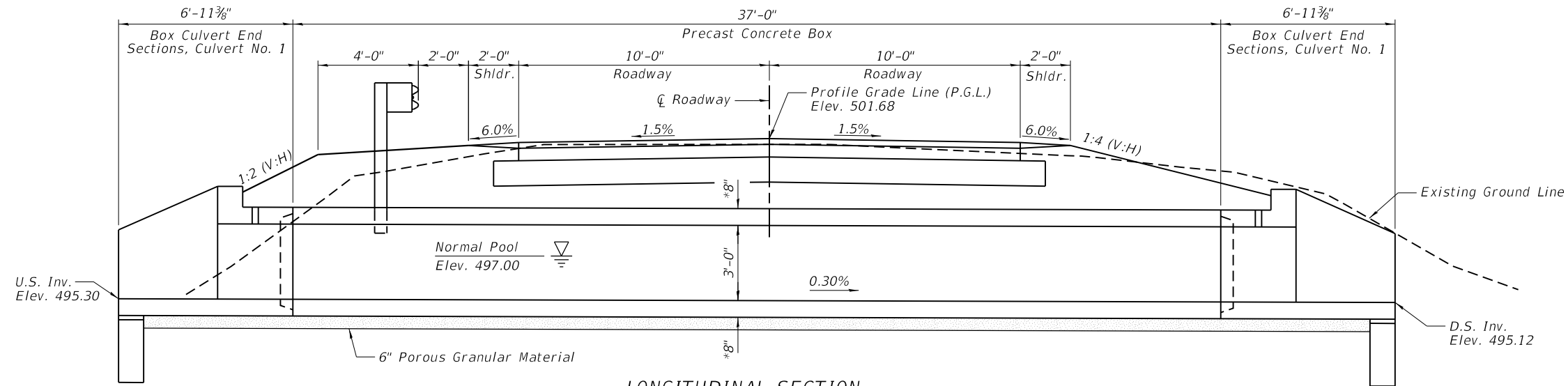
SCALE: AS NOTED SHEET 4 OF 4 SHEETS STA. - TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	67
			CONTRACT NO. 46928	
ILLINOIS FED. AID PROJECT				

Benchmarks: #208, Chiseled "□" on concrete foundation of men's bathroom at Veterans Point Picnic Area, Station 230+77.48, 62.94' LT., Elevation = 515.73.
 #209, Chiseled "□" on Southeast corner of concrete pad for picnic table at 3rd parking lot South of Veterans Point Picnic Area, Station 226+10.86, 70.39' RT., Elevation = 521.48.

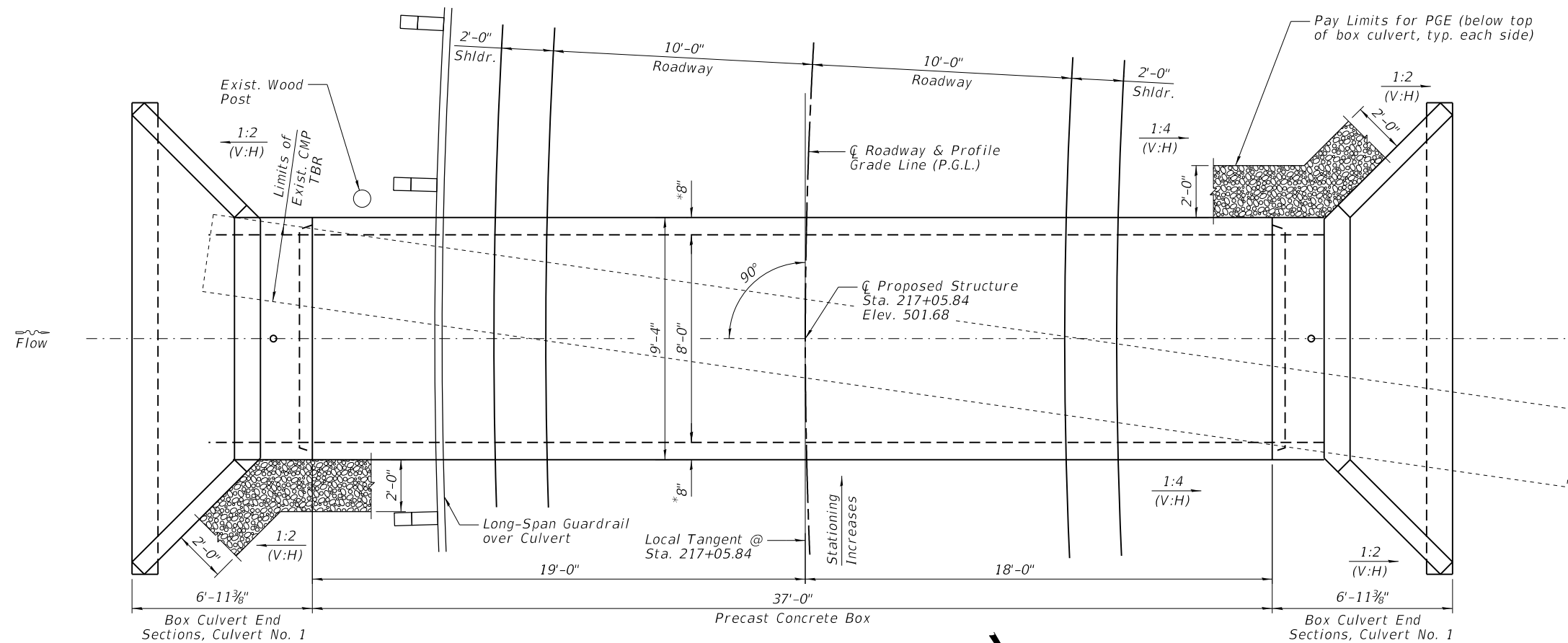
Existing Structure: The existing structure consists of three 36" diameter, 53'-0" long corrugated metal pipe culverts.

No Salvage.



LONGITUDINAL SECTION

(Looking Southwest)
 *Confirm slab & wall thickness with Precaster.



PLAN

*Confirm slab & wall thickness with Precaster.

INDEX OF SHEETS

SHEET NO.	TITLE
1	GENERAL PLAN AND ELEVATION
2	GENERAL DATA
3-4	BOX CULVERT END SECTIONS, CULVERT NO. 1

INTERNAL PARK ROAD HORIZONTAL CURVE DATA

P.I. Sta. 217+75.77
 $\Delta = 83^\circ 52' 20''$ (RT)
 $D = 28^\circ 38' 20''$
 $R = 200.00'$
 $T = 179.68'$
 $L = 292.77'$
 $E = 68.86'$
 P.C. Sta. = 215+96.09
 P.T. Sta. = 218+88.86

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, Customary U.S. Units, 9th Edition

LOADING HL-93

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

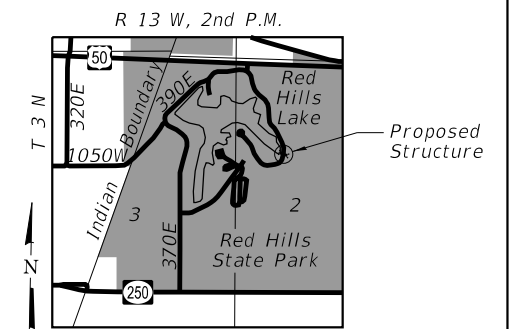
DESIGN STRESSES

FIELD UNITS:

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

PRECAST UNITS:

$f'_c = 5,000$ psi (Precast)
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 65,000$ psi (Welded Wire Fabric)



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

PARK ROAD OVER RED HILLS LAKE SECTION RED HILLS 2021 LAWRENCE COUNTY STATION 217+05.84

DESIGNED - PMG	REVISED
CHECKED - JCZ	REVISED
DRAWN - DJM	REVISED
CHECKED - JCZ	REVISED
DATE - 02/04/2021	

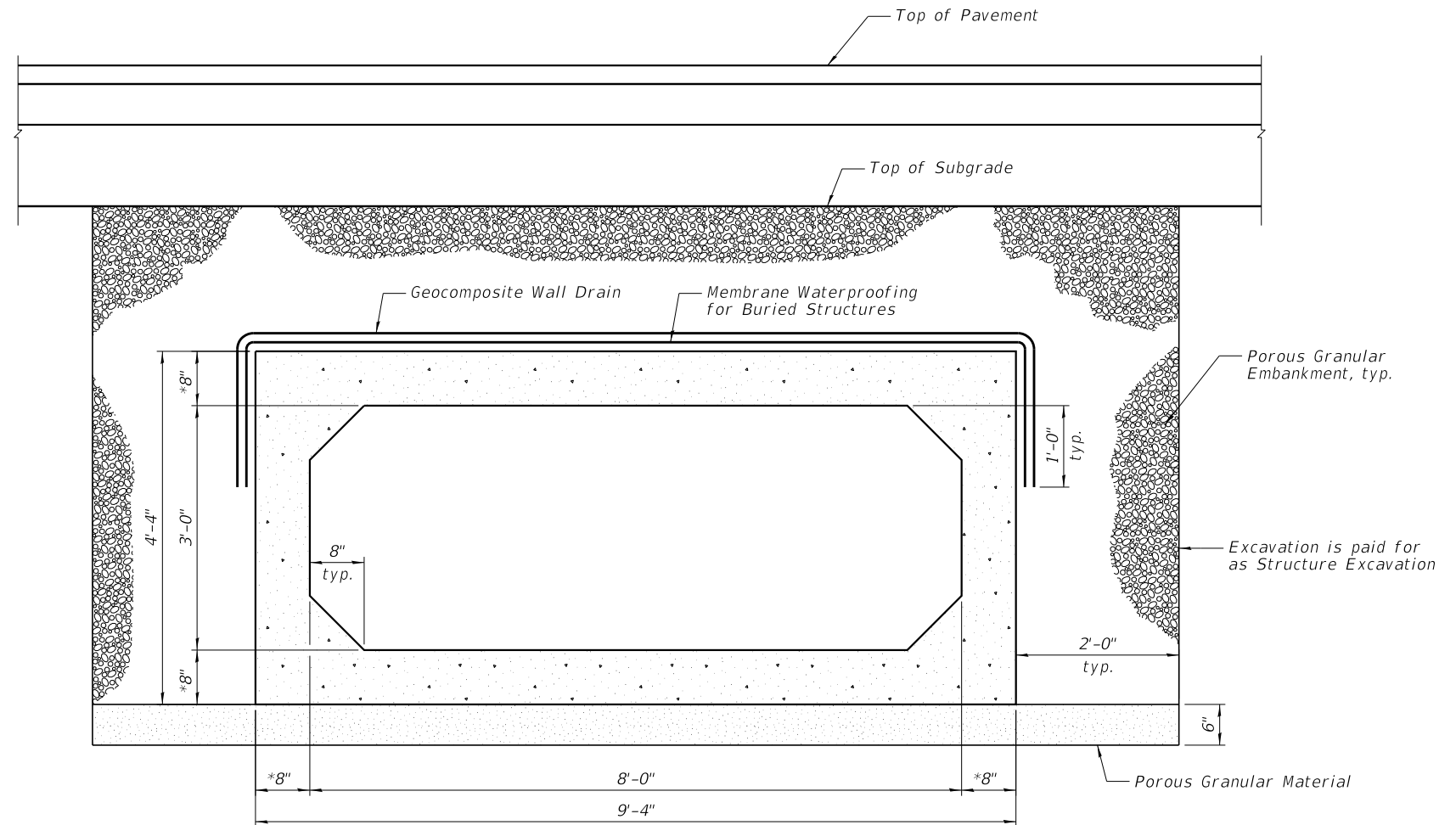
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	68
			CONTRACT NO. 46928	
ILLINOIS				

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	48
Structure Excavation	Cu. Yd.	155
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culvert 8' x 3'	Foot	37
Geocomposite Wall Drain	Sq. Yd.	58
Membrane Waterproofing System for Buried Structures	Sq. Yd.	58
Dewatering Structure No. 1	Each	1

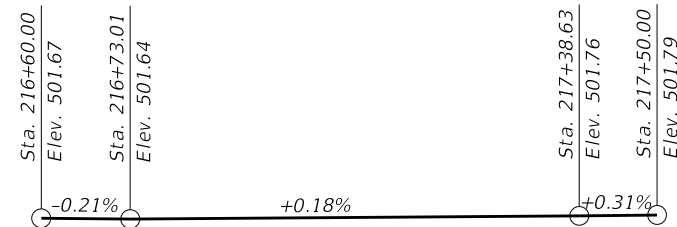
GENERAL NOTES:

- 1.) The design fill height for this box is 2'-10". The precast box culvert sections shall conform to the requirements of ASTM C 1577.
- 2.) Membrane Waterproofing System for Buried Structures and Geocomposite Wall Drain shall be applied face to face of the headwalls and removed as required to construct the top slab drain details.
- 3.) The 6" thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.
- 4.) Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
- 5.) Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment below the top of the subgrade for the pavement extending to a vertical plane 2 ft from the exterior sides of the culvert, 2 ft from the back face of the endsections, and not closer than 2 ft from the face of embankment.
- 6.) Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.



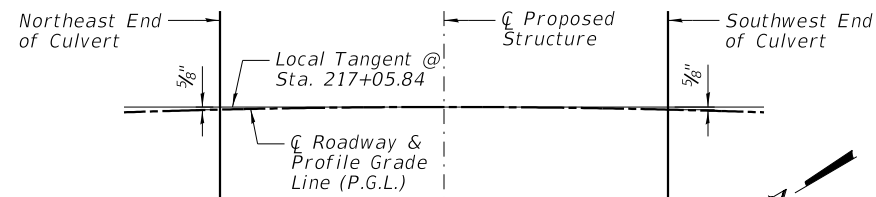
SECTION THRU BARREL

*Confirm slab & wall thickness with Precaster.

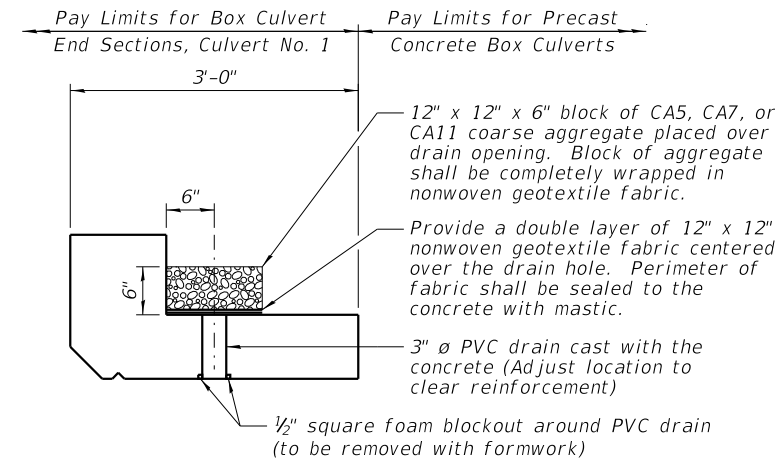


PROFILE GRADE

(Along \bar{C} Roadway)

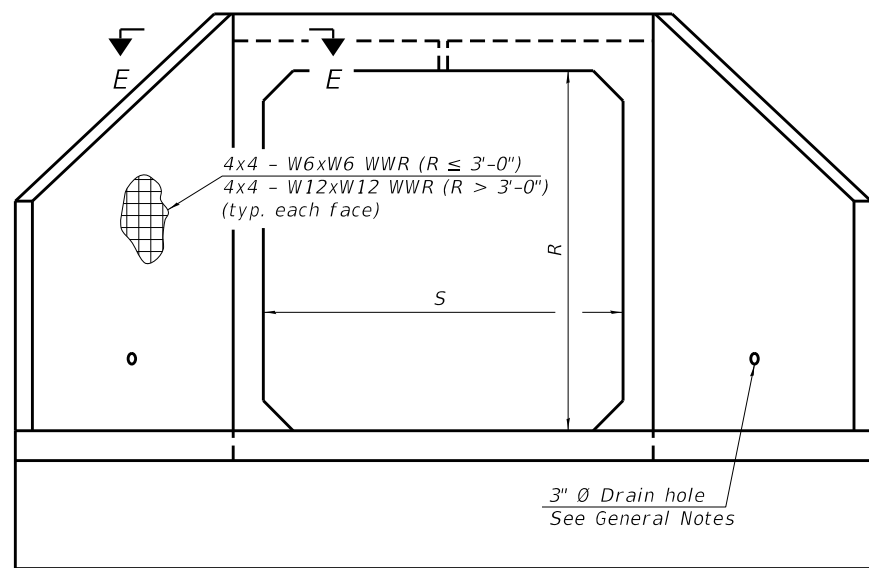


OFFSET SKETCH

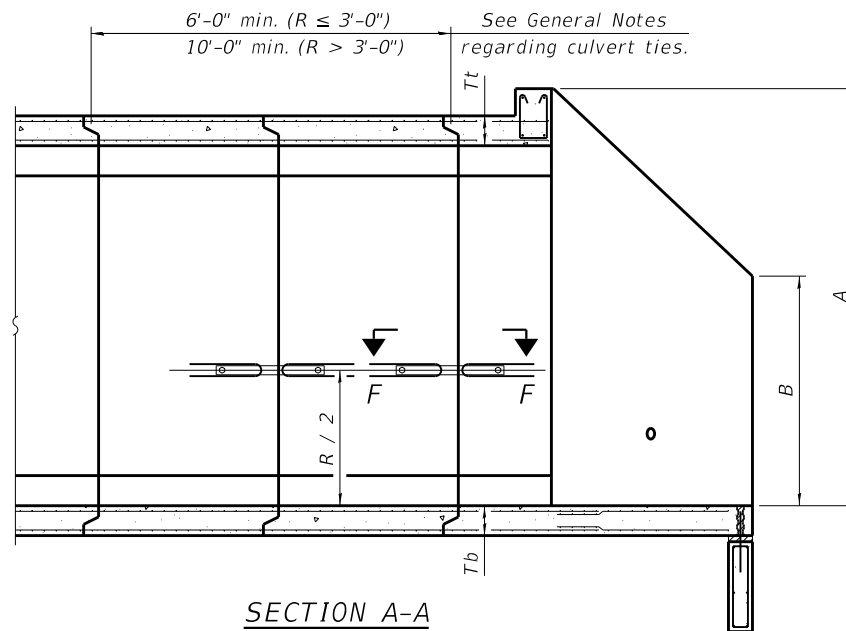


DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



END VIEW



SECTION A-A

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

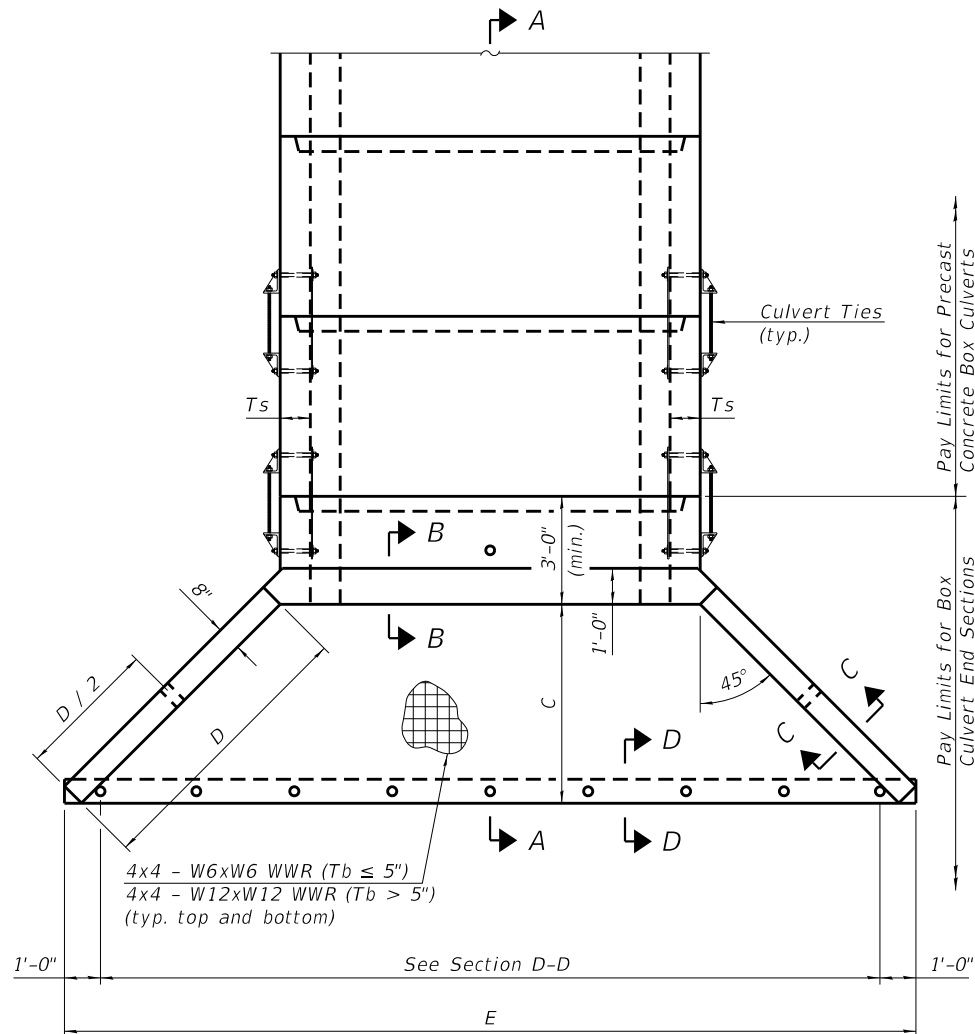
All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included in the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.



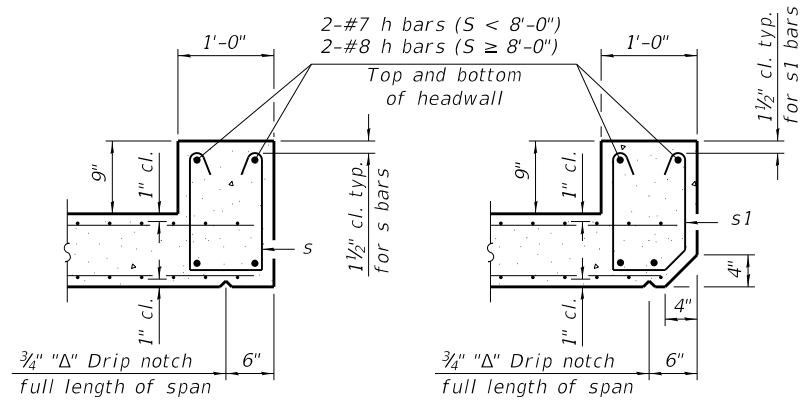
PLAN

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 ⁵ / ₈ "	4'-1"	10'-4 ⁵ / ₈ "	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 ⁷ / ₈ "	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 ⁵ / ₈ "	5'-6"	12'-4 ⁵ / ₈ "	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 ⁷ / ₈ "	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4 ¹ / ₂ "	2'-2 ¹ / ₂ "	2'-11 ³ / ₈ "	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8 ¹ / ₂ "	3'-10"	11'-2 ³ / ₈ "	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 ¹ / ₂ "	2'-8 ¹ / ₂ "	3'-11 ³ / ₈ "	5'-7"	13'-8 ¹ / ₈ "	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 ¹ / ₂ "	5'-3"	13'-2 ³ / ₈ "	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4 ¹ / ₂ "	3'-2 ¹ / ₂ "	4'-11 ³ / ₈ "	7'-0"	15'-8 ¹ / ₈ "	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 ⁵ / ₈ "	6'-8"	15'-2 ¹ / ₂ "	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7 ¹ / ₄ "	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	14'-10 ¹ / ₈ "	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 ¹ / ₄ "	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	16'-10 ¹ / ₈ "	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 ¹ / ₄ "	6'-9"	16'-5 ¹ / ₈ "	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	18'-10 ¹ / ₈ "	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 ¹ / ₄ "	8'-2"	18'-5 ¹ / ₈ "	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 ⁵ / ₈ "	4'-1"	13'-10 ⁵ / ₈ "	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	16'-0 ¹ / ₈ "	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 ⁵ / ₈ "	5'-6"	15'-10 ⁵ / ₈ "	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	18'-0 ¹ / ₈ "	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 ³ / ₄ "	6'-11"	17'-10 ³ / ₄ "	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	20'-0 ¹ / ₈ "	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 ³ / ₄ "	8'-4"	19'-10 ³ / ₄ "	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 ¹ / ₂ "	9'-10"	22'-0 ¹ / ₄ "	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 ³ / ₄ "	9'-9"	21'-10 ³ / ₄ "	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	17'-2 ¹ / ₈ "	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	19'-2 ¹ / ₈ "	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	21'-2 ¹ / ₈ "	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 ¹ / ₂ "	9'-10"	23'-2 ¹ / ₄ "	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	18'-2 ¹ / ₈ "	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	20'-2 ¹ / ₈ "	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	22'-2 ¹ / ₈ "	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 ¹ / ₂ "	9'-10"	24'-2 ¹ / ₄ "	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0 ³ / ₄ "	4'-4"	17'-6 ¹ / ₈ "	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0 ³ / ₄ "	5'-9"	19'-6 ¹ / ₈ "	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0 ³ / ₄ "	7'-2"	21'-6 ¹ / ₈ "	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 ³ / ₈ "	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 ³ / ₈ "	9'-11"	25'-5 ⁵ / ₈ "	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 ¹ / ₂ "	4'-5"	18'-10 ¹ / ₄ "	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 ¹ / ₂ "	5'-10"	20'-10 ¹ / ₄ "	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1 ¹ / ₂ "	7'-3"	22'-10 ³ / ₈ "	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 ¹ / ₂ "	8'-8"	24'-10 ³ / ₈ "	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 ¹ / ₂ "	10'-1"	26'-10 ³ / ₈ "	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2 ⁷ / ₈ "	4'-7"	20'-3 ¹ / ₈ "	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2 ⁷ / ₈ "	6'-0"	22'-3 ¹ / ₈ "	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 ¹ / ₄ "	7'-4"	24'-1 ³ / ₄ "	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2 ¹ / ₄ "	8'-9"	26'-1 ³ / ₄ "	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 ¹ / ₄ "	10'-2"	28'-1 ¹ / ₈ "	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 ⁵ / ₈ "	4'-8"	21'-6 ¹ / ₂ "	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 ⁵ / ₈ "	6'-1"	23'-6 ¹ / ₂ "	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 ⁵ / ₈ "	7'-6"	25'-6 ⁵ / ₈ "	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3 ⁵ / ₈ "	8'-11"	27'-6 ⁵ / ₈ "	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 ⁵ / ₈ "	10'-4"	29'-6 ⁵ / ₈ "	17.4	Yes

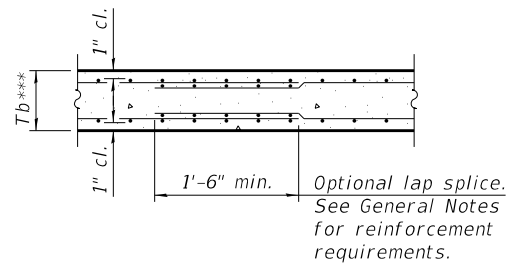
Note:
Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.

(Sheet 1 of 2)



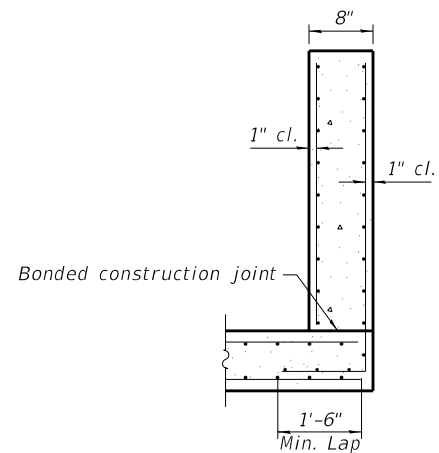
SECTION B-B
(Top slab at downstream end)

SECTION B-B
(Top slab at upstream end)

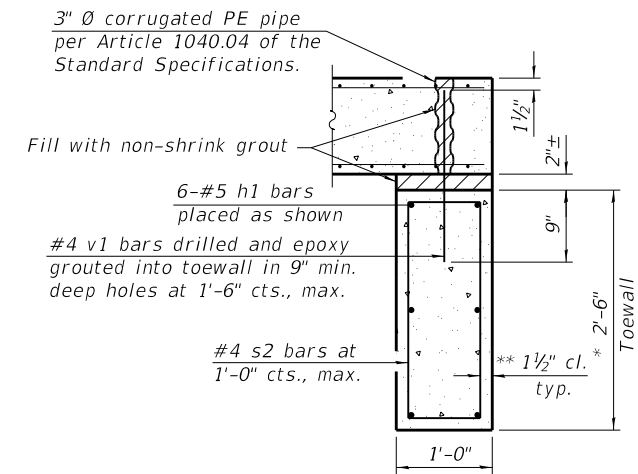


SECTION B-B
(Bottom Slab)

*** This dimension shall be increased by 2" for CIP construction.



SECTION C-C



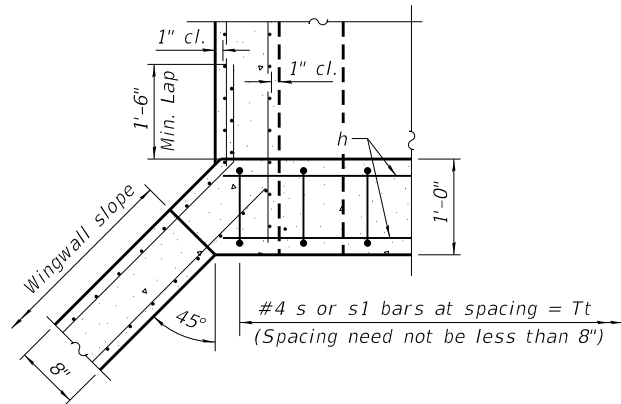
SECTION D-D

TOEWALL CONSTRUCTION SEQUENCE

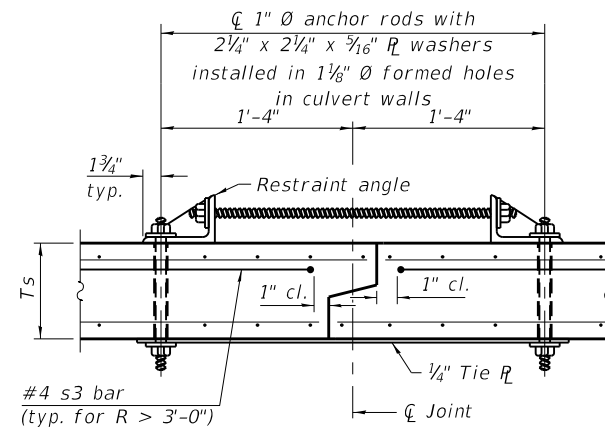
1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

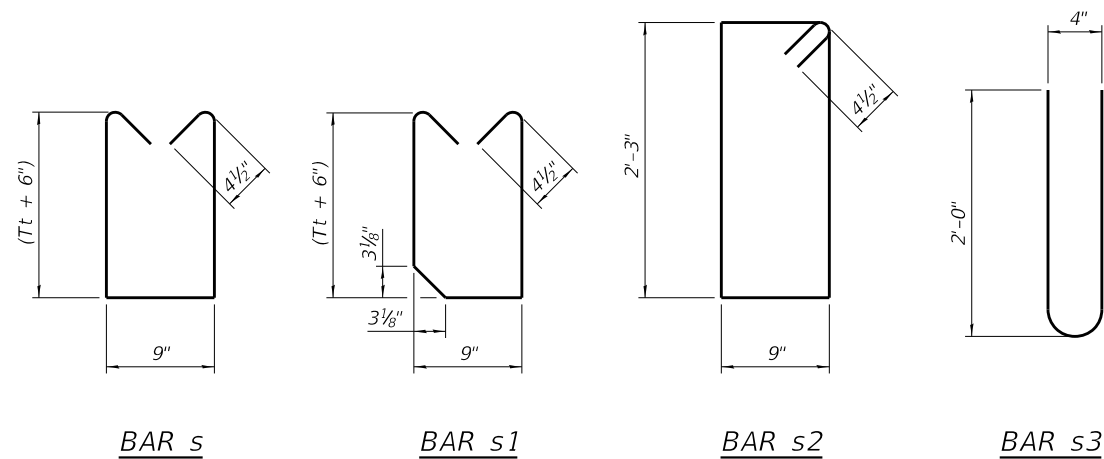
** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



SECTION E-E



SECTION F-F
(Showing culvert tie details)

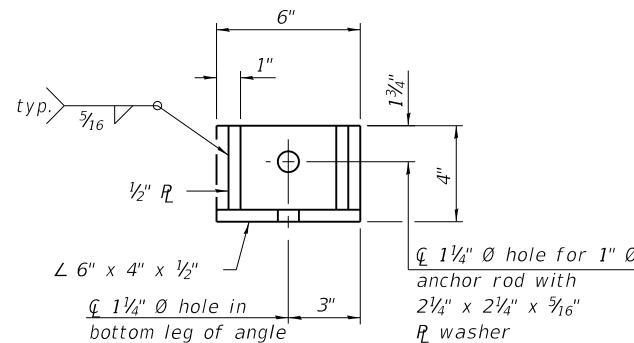


BAR s

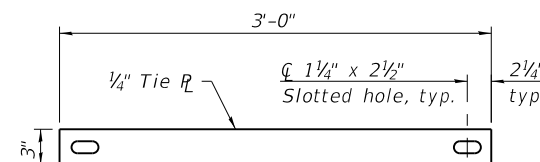
BAR s1

BAR s2

BAR s3



RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL

Notes:

1" \emptyset anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

(Sheet 2 of 2)

ELECTRICAL GENERAL NOTES

1. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT TO FURNISH AND INSTALL THE ELECTRICAL WORK AS SHOWN ON THE PLANS, AS DETAILED IN THE SPECIFICATIONS, AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND AS REQUIRED FOR SPECIFIED OPERATION. CONTRACTOR SHALL EMPLOY ONLY EXPERIENCED ELECTRICIANS. A DULY LICENSED ELECTRICIAN SHALL SUPERVISE ALL WORK. CONTRACTOR SHALL ENSURE THAT ALL EMPLOYEES ARE FAMILIAR WITH THE TYPE OF WORK ENCOUNTERED ON THE PROJECT. ALL MATERIALS AND EQUIPMENT PROVIDED, WHERE APPLICABLE, SHALL HAVE A UL OR FM "LISTING MARK" AFFIXED TO THEM OR THEIR PACKING CONTAINERS AND THEY SHALL MEET ALL UL OR FM AND NEC (NATIONAL ELECTRICAL CODE) STANDARDS FOR THEIR INDICATED USE.

2. WHEREVER THE TERM "STANDARD SPECIFICATIONS" IS USED, IT SHALL MEAN "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2016 EDITION BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION."

3. FIELD LOCATING OF UTILITIES:

UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE FROM AS-BUILT RECORDS AND MAY OR MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION AND SHALL PROTECT ALL UTILITY FACILITIES FROM DAMAGE AND DISRUPTION. THE CONTRACTOR SHALL REPAIR AND RESTORE ANY UTILITIES DAMAGED OR DISRUPTED DURING CONSTRUCTION OPERATIONS TO THE SATISFACTION OF THE UTILITY OWNER AT CONTRACTOR'S OWN EXPENSE.

PRIOR TO HORIZONTAL DIRECTIONAL DRILLING ACTIVITIES, THE CONTRACTOR SHALL PHYSICALLY LOCATE ALL UTILITIES IN THE AFFECTED AREA, REGARDLESS OF THE OWNERSHIP OF THE UTILITY. JULIE LOCATING ALONE IS NOT SUFFICIENT. METHODS THE CONTRACTOR SHALL USE INCLUDE HAND DIGGING, VACUUM POTHOLING, PROBING, ELECTRONIC LOCATING USING CONTRACTOR'S OWN EQUIPMENT, VISUAL SURVEY OF NEARBY FACILITIES (MANHOLES, INLETS, STREET BOXES, HYDRANTS AND THE LIKE), IN SHORT: ANY METHOD DEEMED BY THE CONTRACTOR TO BE SUFFICIENT TO PREVENT ANY DAMAGE OR DISRUPTION TO EXISTING UTILITIES. FIELD LOCATING OF UTILITIES SHALL BE INCLUDED WITH THE ASSOCIATED PAY ITEM.

4. DETERMINING HANDHOLE LOCATIONS.

THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES AT HANDHOLE LOCATIONS, ACCORDING TO GENERAL NOTE 3. AFTER UTILITIES HAVE BEEN LOCATED, DETERMINE POSSIBLE LOCATIONS THAT WILL PLACE HANDHOLE AS CLOSE TO THE PLAN LOCATION AS POSSIBLE. CONFIRM HANDHOLE PLACEMENTS WITH THE OWNER IN THE FIELD PRIOR TO INSTALLATION. HANDHOLES SHALL BE INSTALLED IN UNPAVED (GRASS) AREAS UNLESS THERE IS NO OTHER OPTION. IN SUCH CASES, UPON APPROVAL BY THE OWNER, INSTALL HANDHOLE IN THE PAVING, PAVING REMOVAL AND REPLACEMENT PAID FOR AT THE ASSOCIATED PAY ITEM UNIT COST. DETERMINING HANDHOLE LOCATIONS SHALL BE INCLUDED WITH THE ASSOCIATED PAY ITEM.

5. DETERMINING UNDERGROUND RACEWAY LOCATIONS

RACEWAY LOCATIONS SHOWN IN THE PLANS ARE DIAGRAMMATIC IN NATURE AND SHALL BE VARIED AS NEEDED TO SUIT FIELD CONDITIONS ENCOUNTERED. LOCATE ALL UNDERGROUND UTILITIES ACCORDING TO GENERAL NOTE 3 ALONG THE ROUTE OF THE UNDERGROUND RACEWAY PRIOR TO INSTALLATION. AFTER UTILITIES HAVE BEEN LOCATED, DETERMINE POSSIBLE ROUTES THAT WILL PLACE RACEWAYS AS CLOSE TO THE PLAN LOCATION AS POSSIBLE. CONFIRM RACEWAY ROUTES WITH THE OWNER IN THE FIELD PRIOR TO INSTALLATION. DETERMINING UNDERGROUND RACEWAY LOCATIONS SHALL BE INCLUDED WITH THE ASSOCIATED PAY ITEM.

6. REPAIR OF DAMAGE.

PROVIDE REPAIRS TO ANY PUBLIC OR PRIVATE PROPERTY, INCLUDING UTILITIES WHICH ARE DAMAGED OR DISTURBED BY CONSTRUCTION OPERATIONS. REPAIRS SHALL BE PROVIDED AT CONTRACTOR'S OWN EXPENSE. WHERE UTILITY LINES, UNDERGROUND OBSTRUCTIONS OR PIPING MAY BE UNCOVERED BY CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL NOTIFY THE OWNER OF THE UTILITY AND TAKE ALL NECESSARY MEASURES TO PREVENT INTERRUPTION OF SERVICES THAT MAY BE DAMAGED OR INTERRUPTED THROUGH CONTRACTOR'S OPERATIONS AND PROVIDE IMMEDIATE REPAIR AND/OR RESTORATION AT THE CONTRACTOR'S OWN EXPENSE.

7. UNDERGROUND CONDUIT SHALL BE 1½" SCHEDULE 80 PVC UNLESS NOTED OTHERWISE AND INSTALLED AT A MINIMUM DEPTH OF 24", COILABLE NONMETALLIC CONDUIT SHALL BE USED AT CONTRACTOR'S OPTION AND EQUIVALENT TO SCHEDULE 80 PVC SPECIFICATION. BACKFILL SHALL BE ACCORDING TO THE STANDARD SPECIFICATIONS.

8. ALL UNDERGROUND CIRCUIT WIRING SHALL BE XLP-USE STRANDED COPPER ACCORDING TO STANDARD SPECIFICATION 1066.03. CABLE INSULATION SHALL BE SOLID COLOR-CODED RED, BLUE, WHITE OR GREEN ACCORDING TO USE. COLOR TAPE ON BLACK COLOR INSULATION IS NOT ALLOWED.

9. CONDUCTORS AT ALL TERMINATIONS AND IN JUNCTION BOXES AND HANDHOLES SHALL BE MARKED TO INDICATE SOURCE PANEL, CIRCUIT NUMBER AND BRANCH LETTER. WIRING MARKERS SHALL BE CLIP-ON STYLE ACCORDING TO STANDARD SPECIFICATION 1066.07 (b). BUNDLE CONDUCTORS OF THE SAME BRANCH WITH WIRE TIES IN ALL JUNCTION BOXES AND HANDHOLES.

10. CONDUCTOR SPLICES SHALL BE COMPRESSION TYPE ACCORDING TO STANDARD SPECIFICATION 1066.06(C)(2) WITH WATERPROOF HEAT SHRINK COVER. SPLICES SHALL BE MADE WATERPROOF WITH HEAT SHRINK CAPPED SPLICE ACCORDING TO STANDARD SPECIFICATION 1066.06 (b).








11. INSTALL LIGHT POLES PLUMB AND TRUE. HANDLE LIGHTING FIXTURES CAREFULLY TO PREVENT BREAKAGE, AND DAMAGE. DO NOT INSTALL DAMAGED LIGHTING FIXTURES. REPLACE AND RETURN DAMAGED UNITS TO EQUIPMENT MANUFACTURER.

12. REMOVE CONDUCTORS COMPLETELY FROM CONDUITS OF THE ABANDONED UNDERGROUND LIGHTING CIRCUITS. REMOVE CONDUIT TO A DEPTH OF 1 FOOT BELOW FINISHED GRADE AND BACKFILL THE EXCAVATION. ABANDONED LIGHTING CIRCUITS SHALL BE INCLUDED WITH THE ASSOCIATED PAY ITEM AND NOT COUNTED SEPARATELY FOR PAYMENT.

13. PROVIDE 1½" RIGID GALVANIZED STEEL FOR ALL ABOVE GROUND CONDUIT. TRANSITION BELOW GRADE TO NONMETALLIC CONDUIT.

14. MODIFICATIONS TO EXISTING ELECTRICAL SERVICE:
 PROVIDE SERVICE DISCONNECT SWITCH (NEMA 3R, 3 WIRE, 30A, HEAVY DUTY, FUSED) WITH 30A FUSES. BOND GROUND TO NEUTRAL AT SERVICE DISCONNECT. PROVIDE CONDUCTORS TO POLE TOP IN 1½" GALVANIZED STEEL CONDUIT WITH WEATHERCAP. PROVIDE SERVICE INSTALLATION ACCORDING TO POWER COMPANY REQUIREMENTS. PROVIDE METER SOCKET AND ALL EQUIPMENT REQUIRED BY POWER COMPANY FOR SERVICE INSTALLATION.

ELECTRICAL LEGEND

-  PROPOSED LIGHTING ASSEMBLY
-  EXISTING LIGHT
-  EXISTING FLOOD LIGHT ON EXISTING LIGHT POLE
-  EXISTING UNDERGROUND CONDUIT AND CONDUCTOR
-  PROPOSED LED FLOOD LIGHT
-  PROPOSED UNDERGROUND CONDUIT AND CONDUCTOR (1½" PVC WITH 2-#8, 1-#8G)
-  PROPOSED HANDHOLE, COMPOSITE CONCRETE

TOTAL BILL OF MATERIALS			
PAY CODE	DESCRIPTION	UNIT	TOTAL QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	1,581
81300310	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE 8" X 6" X 4"	EACH	12
81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	2
81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 1/C NO. 8	FOOT	5,126
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	42
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	11
X0321973	MODIFY EXISTING SERVICE INSTALLATION	EACH	4
X0322708	REMOVE EXISTING STREET LIGHTING EQUIPMENT	EACH	3
X0324390	FLOOD LIGHTING UNIT	EACH	4
X1400238	LUMINAIRE, LED, SPECIAL	EACH	27
X1400267	REMOVAL OF LIGHTING LUMINAIRE, NO SALVAGE	EACH	2
X1400397	RECEPTACLE OUTLET	EACH	8
X1400403	LUMINAIRE REPLACEMENT SPECIAL	EACH	14
X1400431	LIGHTING ASSEMBLY (SPECIAL)	EACH	16
	MODIFY CIRCUIT BREAKER PANEL (SPECIAL)	EACH	1

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Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 | info@fw.com

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ELECTRICAL GENERAL NOTES, BILL OF MATERIAL & LEGEND
 RED HILLS STATE PARK**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	72
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



LUMINAIRE TYPE:	TYPE 1	TYPE 1	TYPE 1
LUMINAIRE DESCRIPTION:	LED COBRAHEAD	LED COBRAHEAD	LED COBRAHEAD
MANUFACTURER:	AMERICAN ELECTRIC LIGHTING	EATON / COOPER	CURRENT GE
CATALOG NUMBER:	ATBMIC 85BLEDE60 MVOLT R3 3K DDB P7	ARCHAF16-20-D-U-T3-BZ-7030-4N7	ERL1 0 03B330 A DKBZ
PRODUCT NAME:	AUTOBAHN SERIES ATBMICRO	Archeon Small LED	GE EVOLVE LED ROADWAY LIGHTING
PHOTOMETRIC FILE NAME:	ATBMic_85BLEDE60_XXXXX_R3_3K.ies	ARCHAF16-20-D-U-T3-7030.ies	ERL1_03B330_-120-277V.IES
LIGHT SOURCE TYPE:	LIGHT EMITTING DIODE	LIGHT EMITTING DIODE	LIGHT EMITTING DIODE
LUMINAIRE WATTAGE:	20 W	24 W	22W
CORRELATED COLOR TEMPERATURE:	3000K	3000K	3000K
COLOR RENDERING INDEX (CRI):	70	70	70
TOTAL LIGHT LOSS FACTOR:	0.85	0.85	0.85
ABSOLUTE LUMENS (INITIAL):	3,281 LUMENS	2,884 LUMENS	2900 LUMENS
IES DISTRIBUTION:	TYPE 3	TYPE 3	TYPE 3
LUMINAIRE TILT:	NONE	NONE	NONE
LUMINAIRE ROLL:	LEVEL	LEVEL	LEVEL
NOTE: PROVIDE PHOTOCELL CONTROL			

LUMINAIRE TYPE:	TYPE 2
LUMINAIRE DESCRIPTION:	SHELTER INTERIOR FIXTURE
MANUFACTURER:	BROWNLEE LIGHTING
CATALOG NUMBER:	7171-12-C09-30K
PRODUCT NAME:	DURABLAST
PHOTOMETRIC FILE NAME:	7171-12-C37-35K.ies
LIGHT SOURCE TYPE:	LIGHT EMITTING DIODE
LUMINAIRE WATTAGE:	9 W
CORRELATED COLOR TEMPERATURE:	3000K
COLOR RENDERING INDEX (CRI):	82
TOTAL LIGHT LOSS FACTOR:	0.85
ABSOLUTE LUMENS (INITIAL):	992 LUMENS
IES DISTRIBUTION:	TYPE 5
LUMINAIRE TILT:	NONE
LUMINAIRE ROLL:	LEVEL
NOTE: PROVIDE SCHEDULED LUMINAIRE OR EQUIVALENT	

LUMINAIRE TYPE:	TYPE 3
LUMINAIRE DESCRIPTION:	SIGN AND FLAG FLOODLIGHT
MANUFACTURER:	LITHONIA
CATALOG NUMBER:	OLBF 8 30K DDB
PRODUCT NAME:	OLB LED BULLET FLOOD LIGHT
PHOTOMETRIC FILE NAME:	
LIGHT SOURCE TYPE:	LIGHT EMITTING DIODE
LUMINAIRE WATTAGE:	11 W
CORRELATED COLOR TEMPERATURE:	3000K
COLOR RENDERING INDEX (CRI):	80
TOTAL LIGHT LOSS FACTOR:	0.85
ABSOLUTE LUMENS (INITIAL):	592 LUMENS
IES DISTRIBUTION:	5 X 4 FLOOD OPTICS
LUMINAIRE TILT:	NONE
LUMINAIRE ROLL:	LEVEL
NOTE: PROVIDE SCHEDULED LUMINAIRE OR EQUIVALENT	

LUMINAIRE TYPE:	TYPE 4
LUMINAIRE DESCRIPTION:	PATH LIGHT FIXTURE
MANUFACTURER:	BROWNLEE LIGHTING
CATALOG NUMBER:	1005-B06-30K-PO1
PRODUCT NAME:	VAPOR
PHOTOMETRIC FILE NAME:	1005-B12-35K.ies
LIGHT SOURCE TYPE:	LIGHT EMITTING DIODE
LUMINAIRE WATTAGE:	6 W
CORRELATED COLOR TEMPERATURE:	3000K
COLOR RENDERING INDEX (CRI):	82
TOTAL LIGHT LOSS FACTOR:	0.85
ABSOLUTE LUMENS (INITIAL):	817 LUMENS
IES DISTRIBUTION:	TYPE 5
LUMINAIRE TILT:	NONE
LUMINAIRE ROLL:	LEVEL
NOTE: PROVIDE PHOTOCELL CONTROL AND SCHEDULED LUMINAIRE OR EQUIVALENT	

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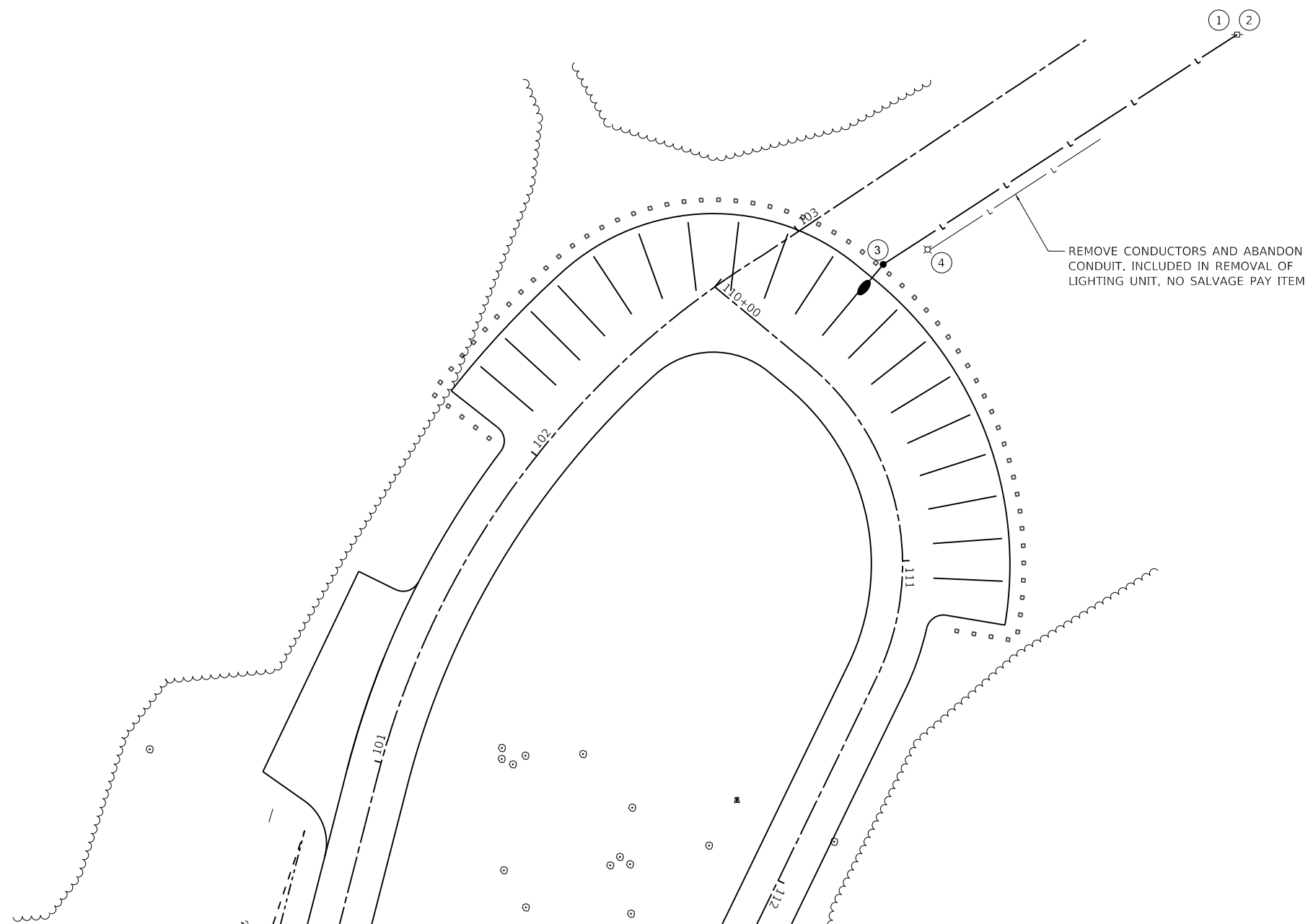
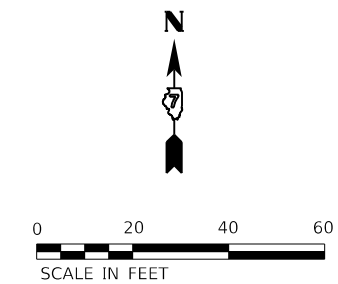
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REVISED	
REVISED	
REVISED	
REVISED	
DATE =	02/12/2021
REVISED	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ELECTRICAL SCHEDULES
RED HILLS STATE PARK**

SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	73
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



REMOVE CONDUCTORS AND ABANDON CONDUIT. INCLUDED IN REMOVAL OF LIGHTING UNIT, NO SALVAGE PAY ITEM

KEYED NOTES:

- ① MODIFY EXISTING SERVICE INSTALLATION. SEE GENERAL NOTE 14 AND SPECIAL PROVISIONS.
- ② REMOVE EXISTING STREET LIGHTING EQUIPMENT
- ③ LIGHTING ASSEMBLY (SPECIAL) TYPE L3, SEE DETAIL SHEET 84 AND SPECIAL PROVISIONS.
- ④ REMOVAL OF LIGHTING UNIT, NO SALVAGE. ABANDON EXISTING UNDERGROUND LIGHTING CIRCUIT ACCORDING TO GENERAL NOTE 12.

PLOT DATE: 3/22/2021
 USER NAME: toconnor
 DESIGNED: WLB
 DRAWN: WLB
 CHECKED: BMS
 DATE: 02/12/2021
 PLOT SCALE: 24.00' = 1"



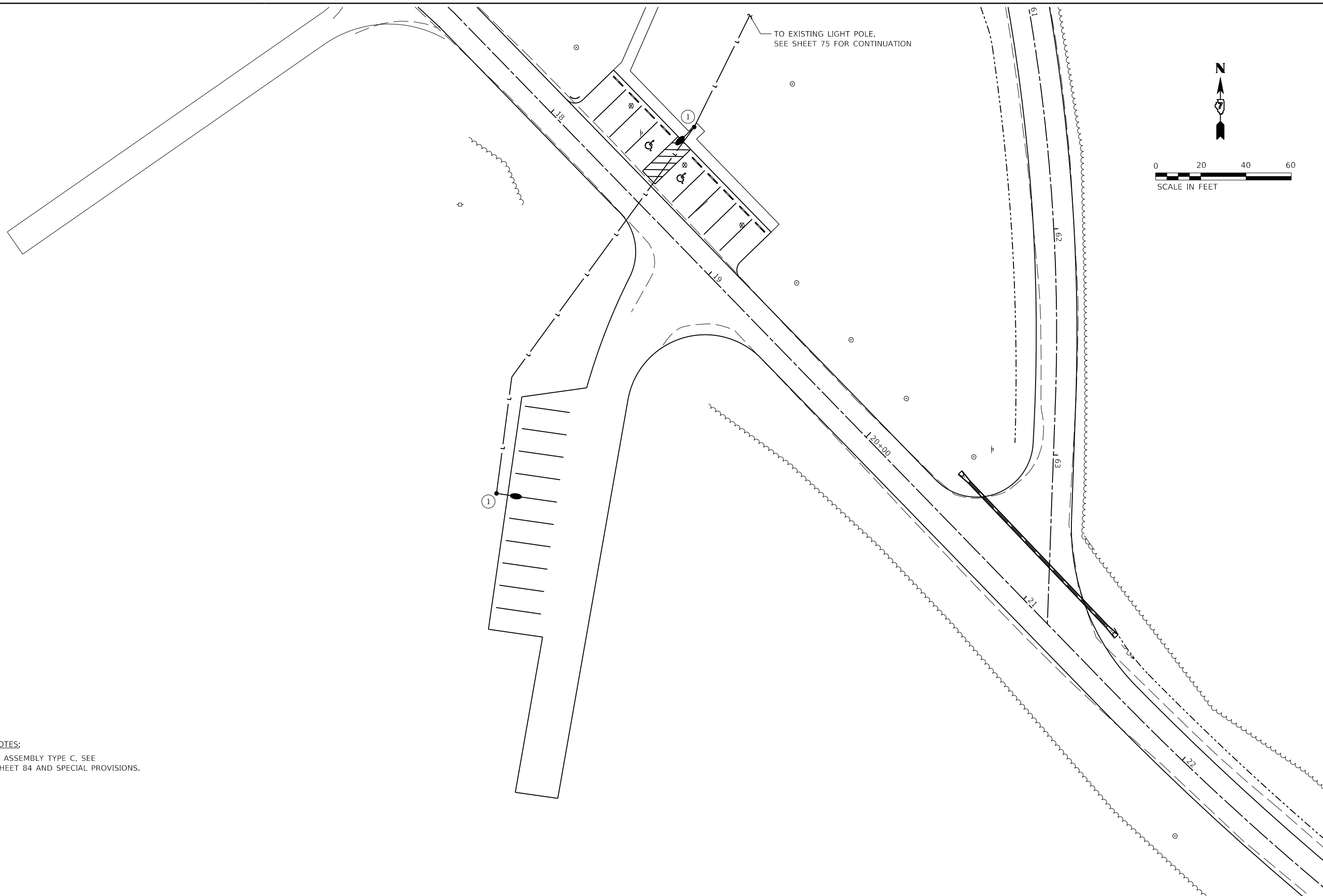
USER NAME = toconnor	DESIGNED - WLB	REVISED
DRAWN - WLB	CHECKED - BMS	REVISED
PLOT SCALE = 24.00' / 1"	DATE - 02/12/2021	REVISED
PLOT DATE = 3/22/2021	13:56:49	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RED HILLS CROSS PARKING LOT - ELECTRICAL PLAN
RED HILLS STATE PARK**

SCALE: AS NOTED SHEET 1 OF 10 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	74
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



KEYED NOTES:
 ① LIGHTING ASSEMBLY TYPE C, SEE
 DETAIL SHEET 84 AND SPECIAL PROVISIONS.

PEN TABLE: IDOTSSA_Standard Project Penetral
 DRIVER: 2211 BRADLEY AVENUE
 SHEET: FILES: 8/20/2021 10:17:20 - IDOT.PTB 1865013 Red Hills State Park\04_Drawing\DCN\CAD_Sheet\0746928_084 Electrical Plan_03.dgn



USER NAME = s#sanby	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
PLOT SCALE = 24.00 1/16"	CHECKED - BMS	REVISED
PLOT DATE = 2/14/2021 11:17:36 PM	DATE - 02/12/2021	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

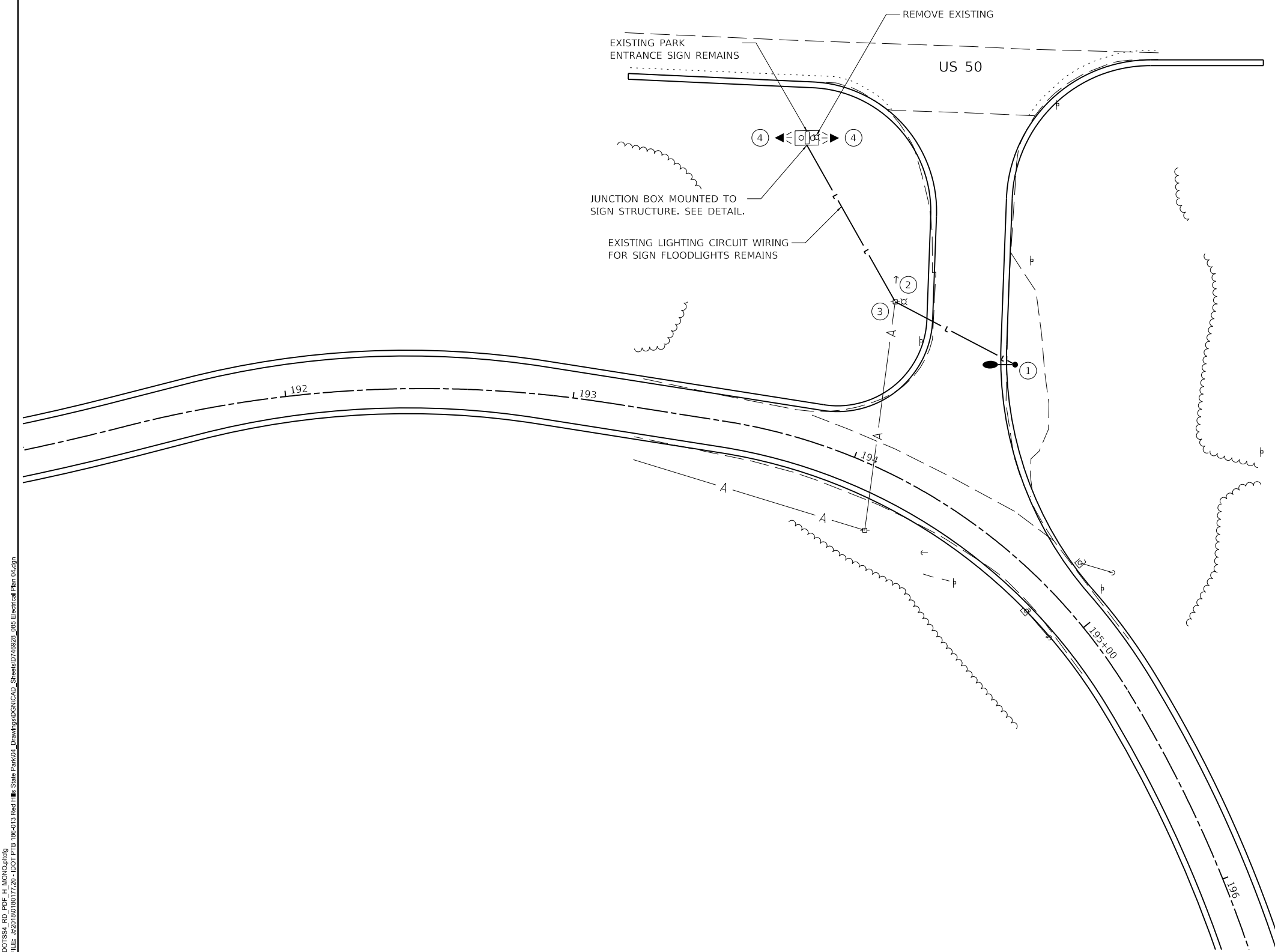
NORTH WINDS SOUTH PARKING LOT - ELECTRICAL PLAN		
RED HILLS STATE PARK		
SCALE: AS NOTED	SHEET 3 OF 10 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	76
CONTRACT NO. 46928			ILLINOIS FED. AID PROJECT	



US 50

US 50



- KEYED NOTES:**
- ① LIGHTING ASSEMBLY (SPECIAL), TYPE L1. SEE DETAIL SHEET 84 AND SPECIAL PROVISIONS.
 - ② MODIFY EXISTING SERVICE INSTALLATION. SEE GENERAL NOTE 14 AND SPECIAL PROVISIONS.
 - ③ REMOVE EXISTING STREET LIGHTING EQUIPMENT.
 - ④ FLOOD LIGHTING UNIT, TYPE F1. REMOVE EXISTING LIGHT ON EAST SIDE. SIGN FLOODLIGHT ON WEST SIDE IS MISSING. REMOVE EXISTING CONDUIT AND WIRE FROM LIGHTS TO THE SIGN STRUCTURE FOR BOTH LIGHTS. REMOVE SIGN MOUNTED JUNCTION BOX AND PREPARE FOR MOUNTING PROPOSED EQUIPMENT. SEE DETAIL ON DETAIL SHEET 86. EXISTING FLOODLIGHT, CONDUIT AND CONDUCTORS REMOVAL IS INCLUDED IN FLOODLIGHT, GROUND MOUNTED PAY ITEM.

PLOT FILE: \\F:\DOT\SSA_Standard\Project\Penet\...
 DRIVER: ...
 SHEET: ...



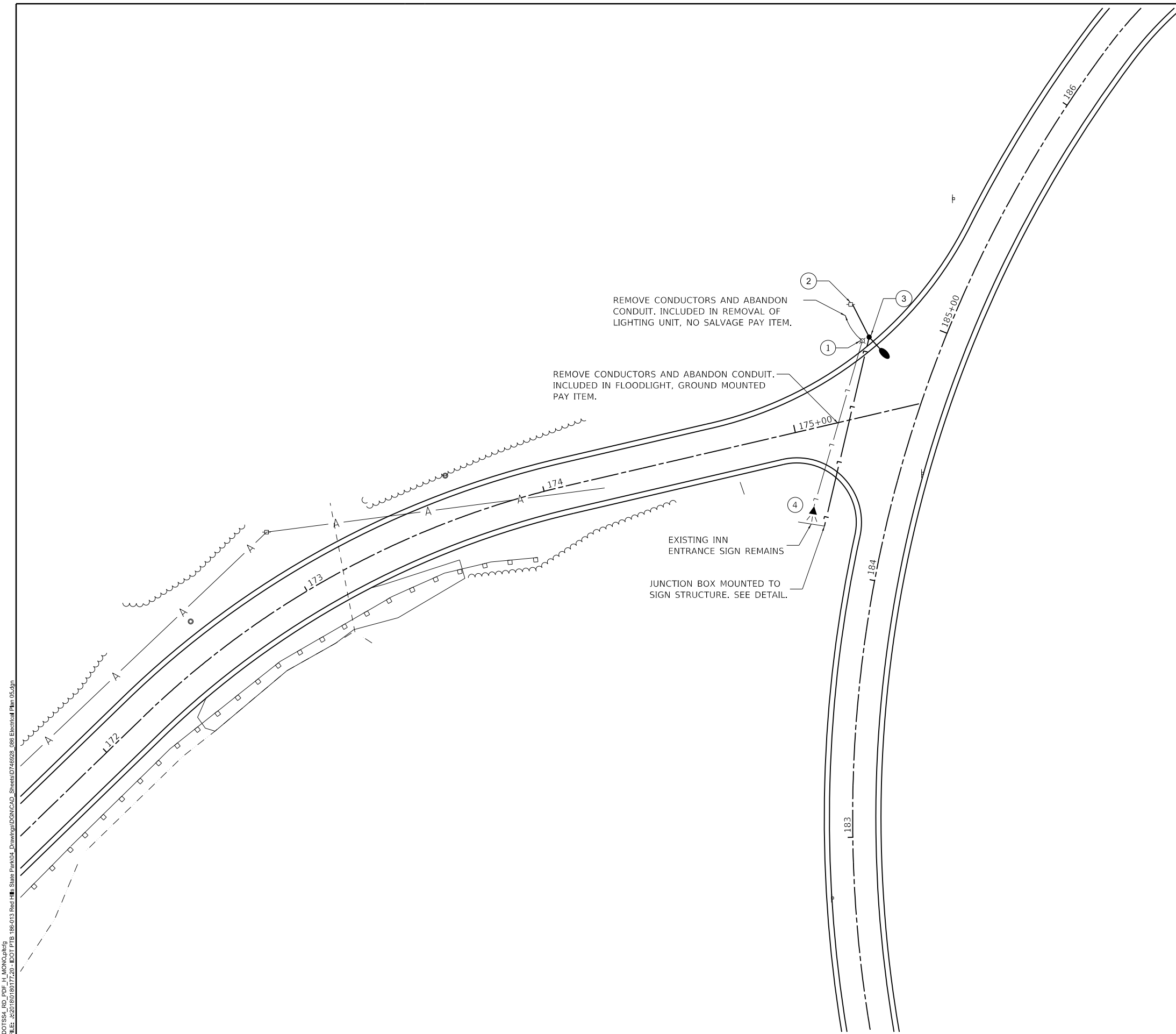
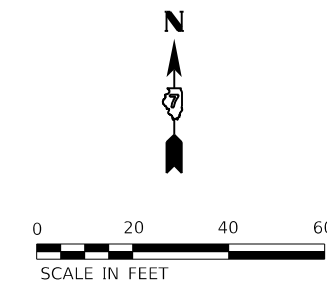
USER NAME = toconnor	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
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PLOT DATE = 3/22/2021	DATE - 02/12/2021	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 50 MAIN PARK ENTRANCE - ELECTRICAL PLAN
RED HILLS STATE PARK**

SCALE: AS NOTED SHEET 4 OF 10 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	77
CONTRACT NO. 46928				
ILLINOIS FED. AID PROJECT				



- KEYED NOTES:**
- ① REMOVAL OF LIGHTING UNIT, NO SALVAGE
 - ② MODIFY EXISTING SERVICE INSTALLATION. SEE GENERAL NOTE 14 AND SPECIAL PROVISIONS.
 - ③ LIGHTING ASSEMBLY (SPECIAL), TYPE L3. SEE DETAIL SHEET 84 AND SPECIAL PROVISIONS.
 - ④ FLOOD LIGHTING UNIT, TYPE F1. REMOVE EXISTING SIGN FLOODLIGHT. REMOVE BRANCH WIRING AND ABANDON CONDUIT ACCORDING TO GENERAL NOTE 12.

PEN TABLE: IDOTSSA_Standard Project Pen.tbl
 DRIVER: S:\Projects\2021\RED HILLS\Drawings\DCN\CAD_Sheets\0746928_086 Electrical Plan 05.dgn
 SHEET: FILE: 8201001801817720 - IDOT P18 186-013 Red Hills State Park\04_Drawings\DCN\CAD_Sheets\0746928_086 Electrical Plan 05.dgn

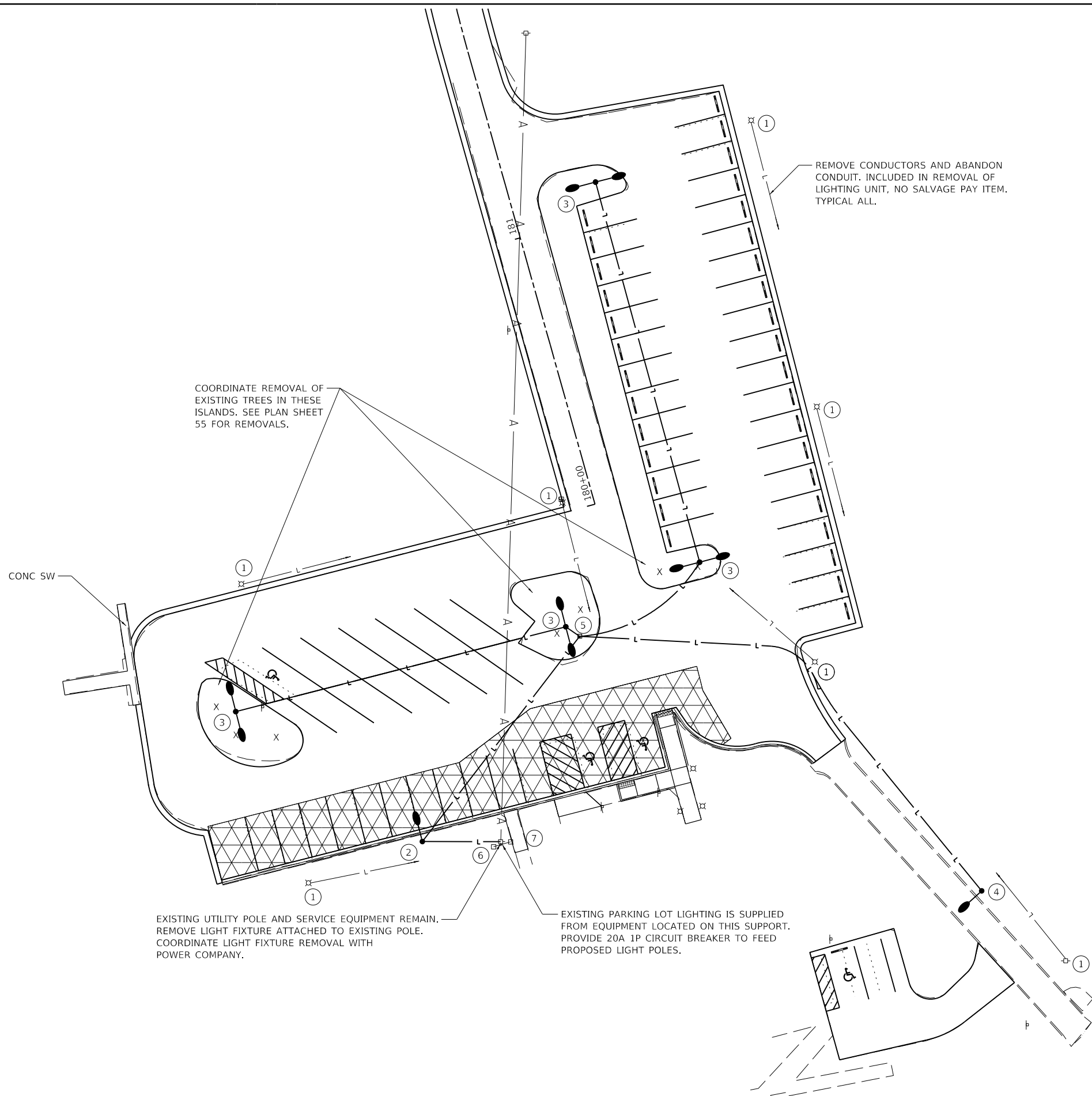


USER NAME = toconnor	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
PLOT SCALE = 24,000' / ft.	CHECKED - BMS	REVISED
PLOT DATE = 3/22/2021	DATE - 02/12/2021	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRACE INN ENTRANCE ROAD - ELECTRICAL PLAN			
RED HILLS STATE PARK			
SCALE: AS NOTED	SHEET 5 OF 10 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	78
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



COORDINATE REMOVAL OF EXISTING TREES IN THESE ISLANDS. SEE PLAN SHEET 55 FOR REMOVALS.

REMOVE CONDUCTORS AND ABANDON CONDUIT. INCLUDED IN REMOVAL OF LIGHTING UNIT, NO SALVAGE PAY ITEM. TYPICAL ALL.

CONC SW

EXISTING UTILITY POLE AND SERVICE EQUIPMENT REMAIN. REMOVE LIGHT FIXTURE ATTACHED TO EXISTING POLE. COORDINATE LIGHT FIXTURE REMOVAL WITH POWER COMPANY.

EXISTING PARKING LOT LIGHTING IS SUPPLIED FROM EQUIPMENT LOCATED ON THIS SUPPORT. PROVIDE 20A 1P CIRCUIT BREAKER TO FEED PROPOSED LIGHT POLES.

KEYED NOTES:

- ① REMOVAL OF LIGHTING UNIT, NO SALVAGE. ABANDON EXISTING UNDERGROUND LIGHTING CIRCUITS ACCORDING TO GENERAL ELECTRICAL NOTE 12.
- ② LIGHTING ASSEMBLY (SPECIAL), TYPE L1. SEE DETAIL SHEET 84 AND SPECIAL PROVISIONS.
- ③ LIGHTING ASSEMBLY (SPECIAL), TYPE L2. SEE DETAIL SHEET 84 AND SPECIAL PROVISIONS.
- ④ LIGHTING ASSEMBLY (SPECIAL), TYPE L3. SEE DETAIL SHEET 84 AND SPECIAL PROVISIONS.
- ⑤ HANDHOLE, COMPOSITE CONCRETE.
- ⑥ REMOVE EXISTING STREET LIGHTING EQUIPMENT.
- ⑦ MODIFY CIRCUIT BREAKER PANEL (SPECIAL).

PEN TABLE: DOTSSA_Standard Project Pen.tbl
 DRIVER: J. S. ...
 SHEET: 8/20/2021 10:17:20 - E:\DOT\PTB\1865013\Red Hills State Park\04_Drawing\DCN\CAD_Sheets\0746928_087 Electrical Plan_05.dgn



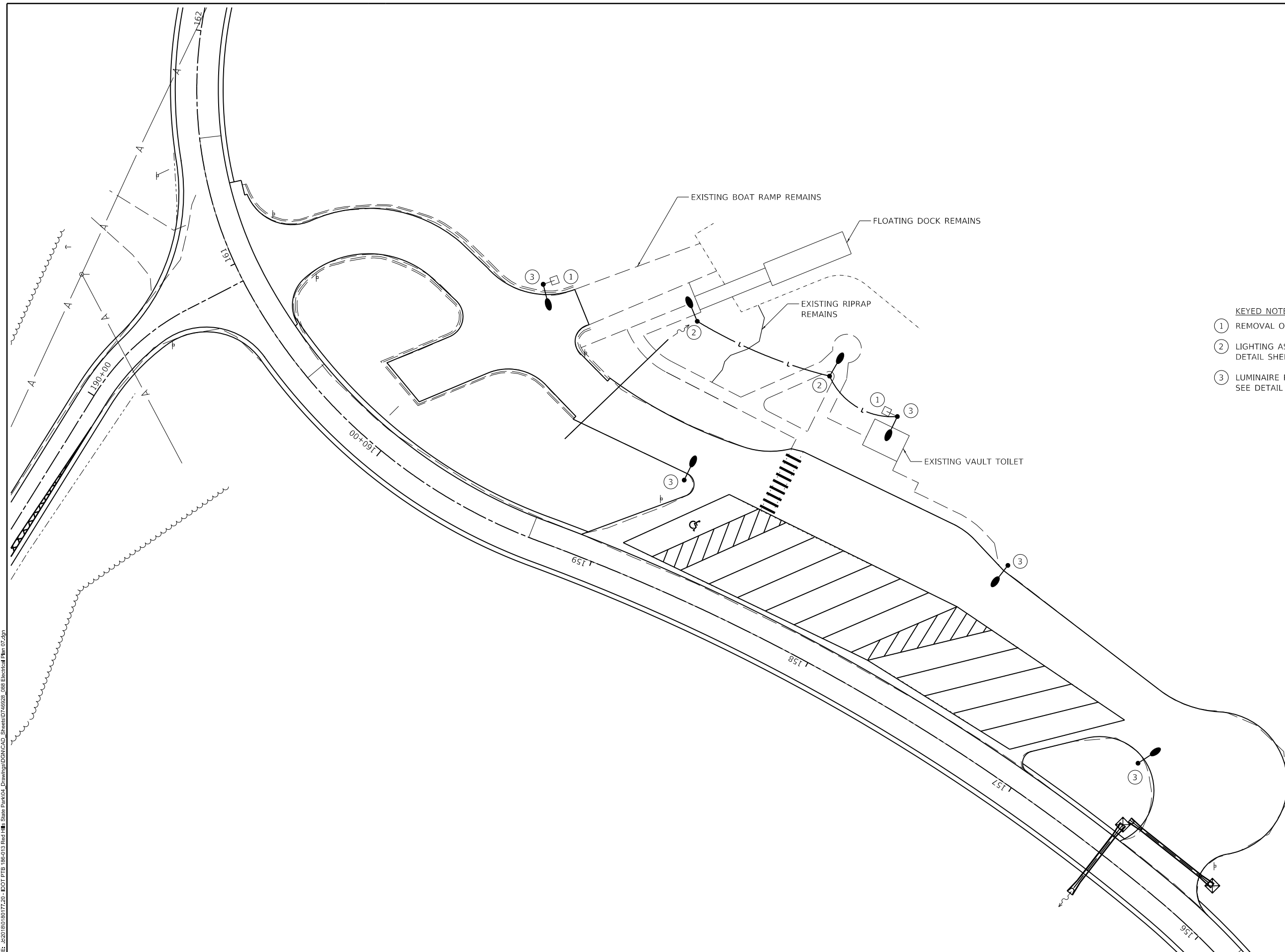
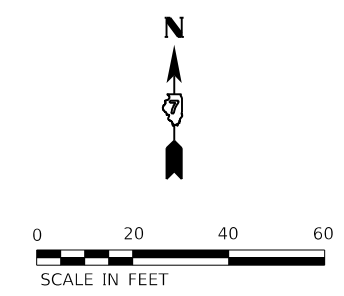
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DRAWN - WLB	CHECKED - BMS	REVISED
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PLOT DATE = 3/22/2021	13:56:52	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRACE INN PARKING LOT - ELECTRICAL PLAN
RED HILLS STATE PARK**

SCALE: AS NOTED SHEET 6 OF 10 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	RED HILLS 2021	LAWRENCE	98	79
CONTRACT NO. 46928			ILLINOIS FED. AID PROJECT	



- KEYED NOTES:**
- ① REMOVAL OF LIGHTING LUMINAIRE, NO SALVAGE (FLOODLIGHT).
 - ② LIGHTING ASSEMBLY (SPECIAL), TYPE L3. SEE DETAIL SHEET 84 AND SPECIAL PROVISIONS.
 - ③ LUMINAIRE REPLACEMENT SPECIAL, TYPE R1. SEE DETAIL SHEET 85 AND SPECIAL PROVISIONS.

PEN TABLE: DOTSSZ_Standard Project Penet...
 DRIVER: ...
 SHEET: ...

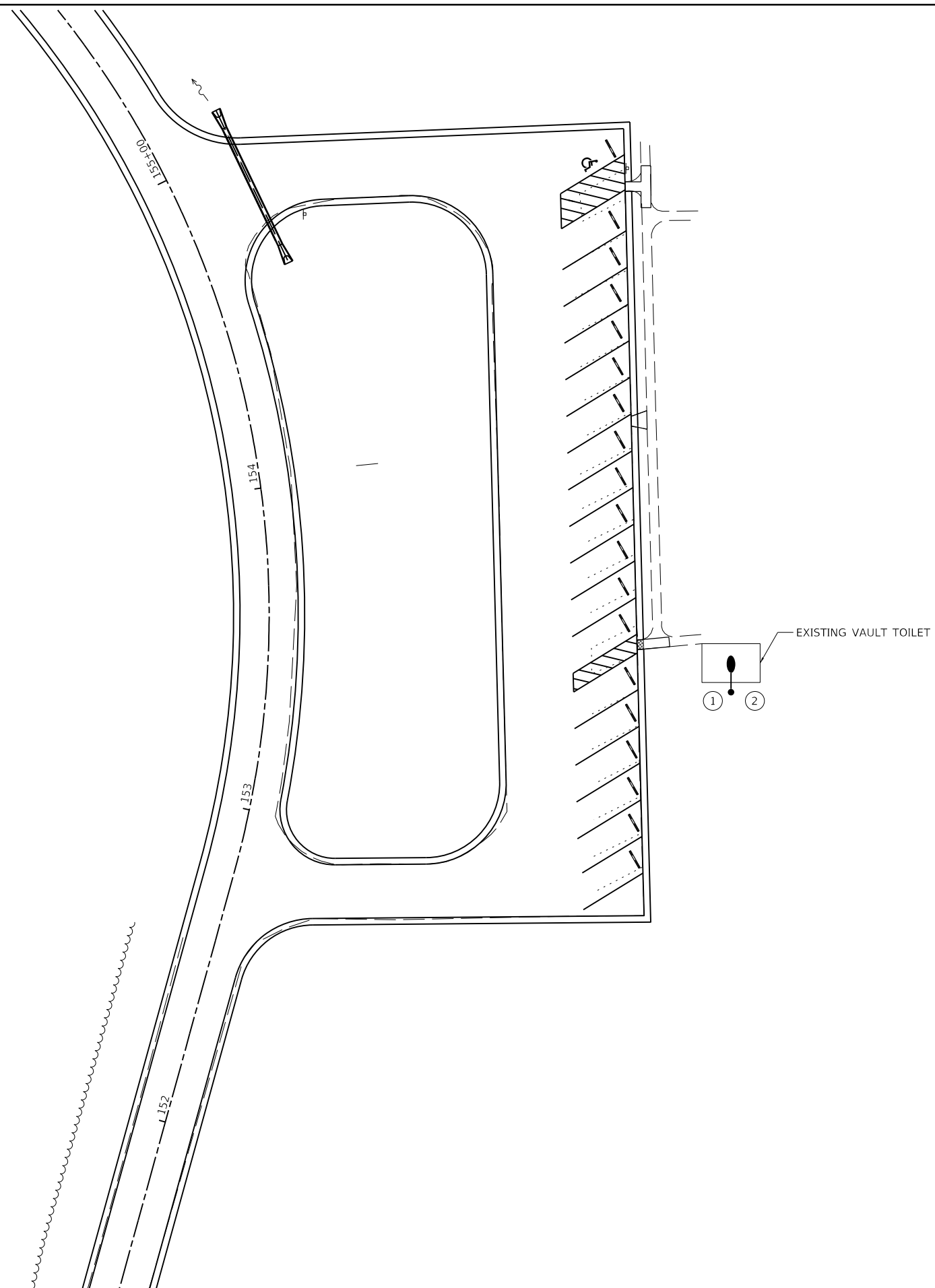
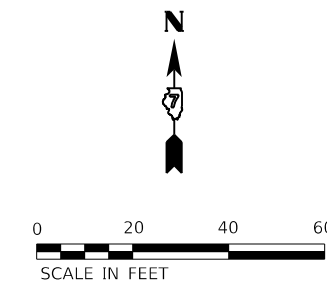


USER NAME = toconnor	DESIGNED - WLB	REVISED
DRAWN - WLB	CHECKED - BMS	REVISED
PLOT SCALE = 24,000' / ft.	DATE - 02/12/2021	REVISED
PLOT DATE = 3/22/2021	13:58:53	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BOAT RAMP PARKING LOT - ELECTRICAL PLAN			
RED HILLS STATE PARK			
SCALE: AS NOTED	SHEET 7 OF 10 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	80
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



- KEYED NOTES:**
- ① REMOVAL OF LIGHTING UNIT, NO SALVAGE
 - ② LIGHTING ASSEMBLY (SPECIAL), TYPE L3. SEE DETAIL SHEET 84 AND SPECIAL PROVISIONS.

PEN TABLE: IDOTSSZ_Standard Project Pen.tbl
 DRIVER: J. S. ...
 SHEET: FILE: \\s32010018017720 - IDOT.PTS 1865013 Red Hills State Park\04_Drawing\DCN\CAD_Sheet\0746928_088 Electrical Plan_08.dgn

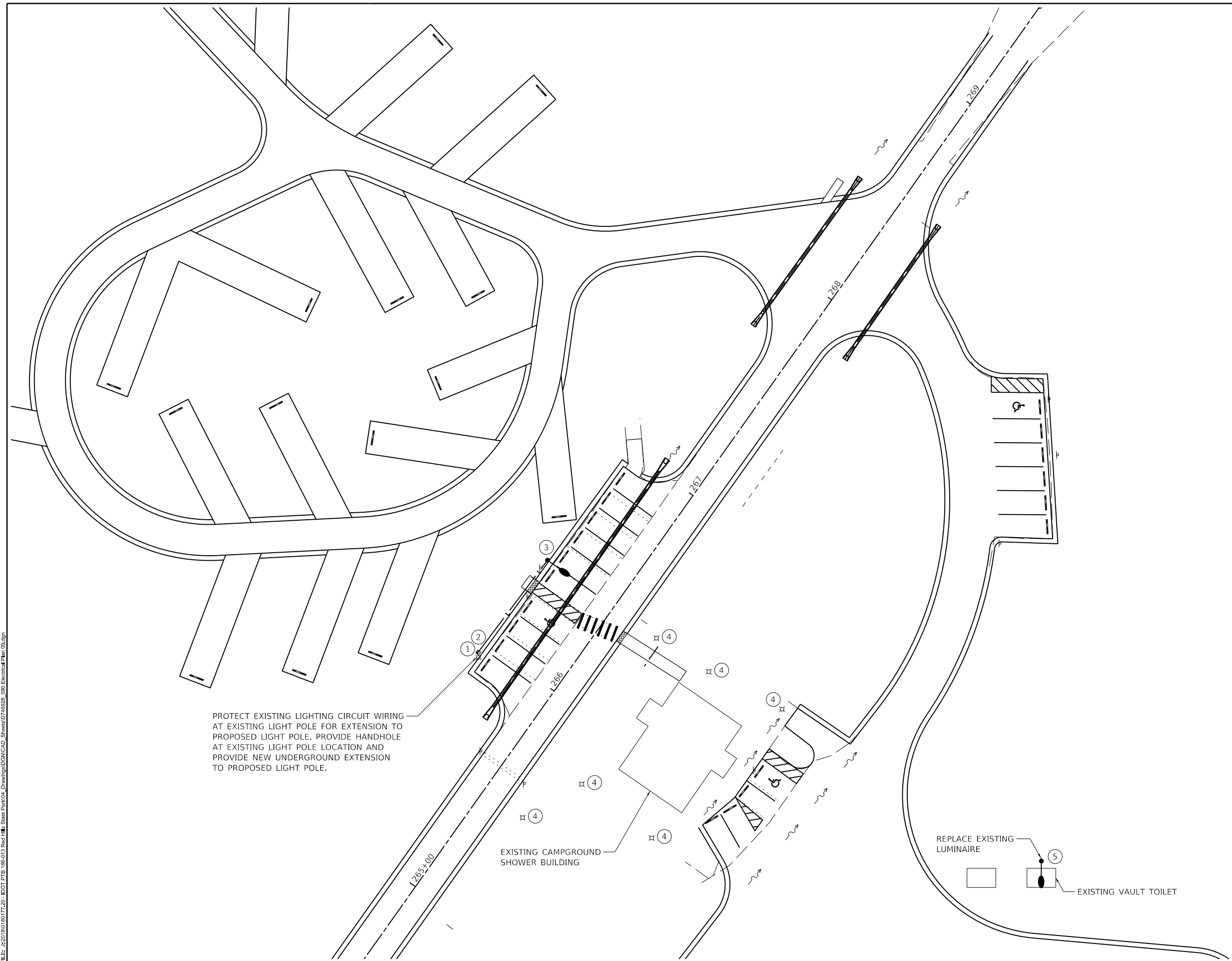
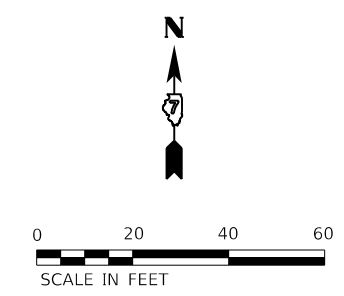


USER NAME = toconnor	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
PLOT SCALE = 24,000' / ft.	CHECKED - BMS	REVISED
PLOT DATE = 3/22/2021	DATE - 02/12/2021	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LAKESIDE SHELTER PARKING LOT - ELECTRICAL PLAN			
RED HILLS STATE PARK			
SCALE: AS NOTED	SHEET 8 OF 10 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	81
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	



PROTECT EXISTING LIGHTING CIRCUIT WIRING AT EXISTING LIGHT POLE FOR EXTENSION TO PROPOSED LIGHT POLE. PROVIDE HANDHOLE AT EXISTING LIGHT POLE LOCATION AND PROVIDE NEW UNDERGROUND EXTENSION TO PROPOSED LIGHT POLE.

EXISTING CAMPGROUND SHOWER BUILDING

REPLACE EXISTING LUMINAIRE

EXISTING VAULT TOILET

- KEYED NOTES:**
- ① REMOVAL OF LIGHTING UNIT, NO SALVAGE.
 - ② HANDHOLE, COMPOSITE CONCRETE
 - ③ LIGHTING ASSEMBLY (SPECIAL), TYPE L1. SEE DETAIL SHEET 84 AND SPECIAL PROVISIONS.
 - ④ LUMINAIRE REPLACEMENT SPECIAL, TYPE R2. SEE DETAIL SHEET 85 AND SPECIAL PROVISIONS.
 - ⑤ LUMINAIRE REPLACEMENT SPECIAL, TYPE R1. SEE DETAIL SHEET 85 AND SPECIAL PROVISIONS.

PEN TABLE: IDOTSSA_Standard Project Penet...
 DRIVER: ...
 SHEET: ...

Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@fw.com

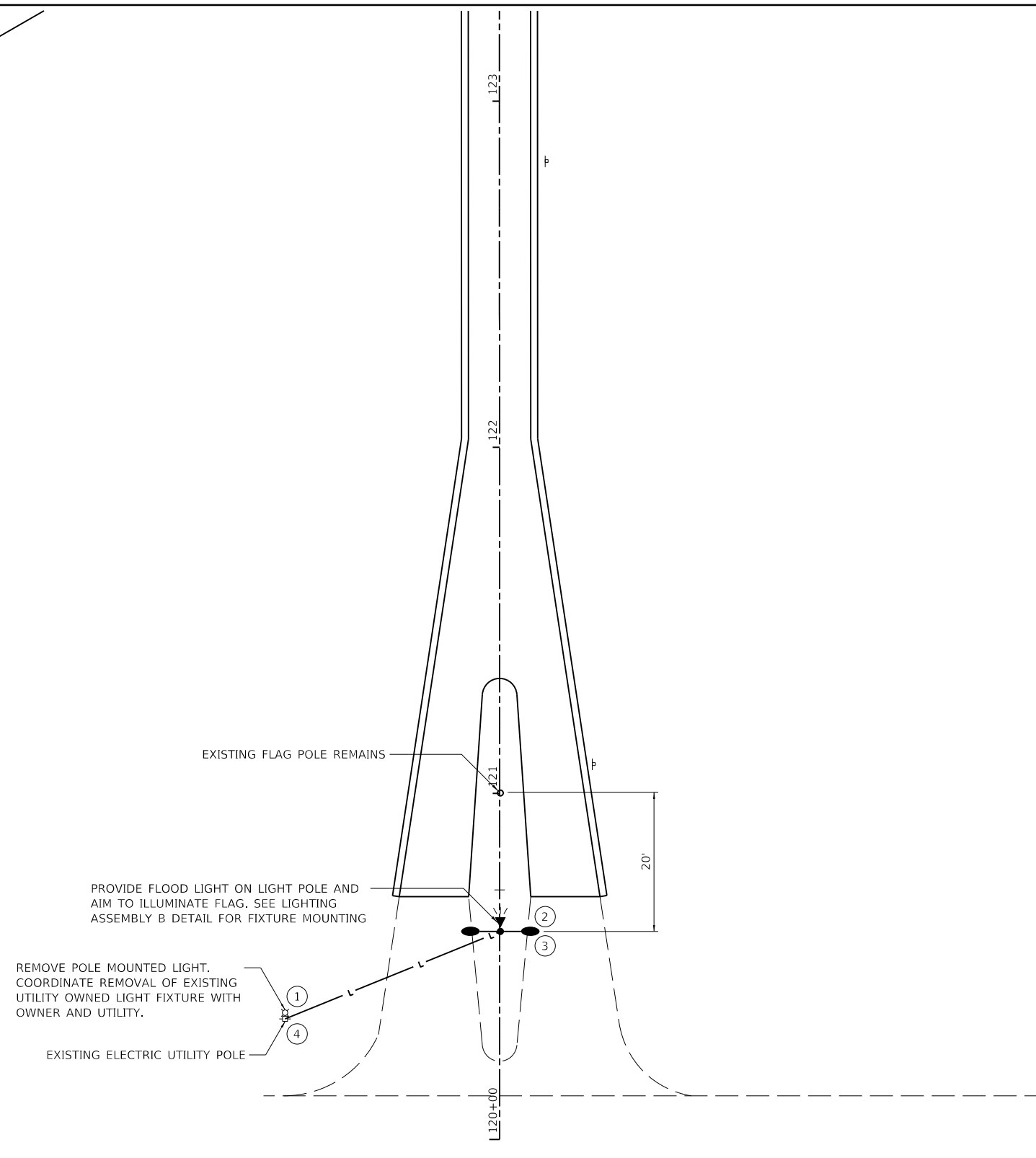
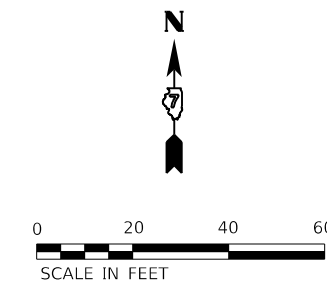
USER NAME = toconnor	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
PLOT SCALE = 24.00' / ft.	CHECKED - BMS	REVISED
PLOT DATE = 3/22/2021	DATE - 02/12/2021	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CAMPGROUND ENTRY AND SHOWER BUILDING - ELECTRICAL PLAN
RED HILLS STATE PARK

SCALE: AS NOTED SHEET 9 OF 10 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	82
CONTRACT NO. 46928				
ILLINOIS		FED. AID PROJECT		



IL 250

KEYED NOTES:

- ① ELECTRICAL SERVICE INSTALLATION
- ② LIGHTING ASSEMBLY (SPECIAL), TYPE L2. SEE DETAIL SHEET 84 AND SPECIAL PROVISIONS.
- ③ FLOOD LIGHTING UNIT, TYPE F2.
- ④ REMOVE EXISTING STREET LIGHTING EQUIPMENT.

PEN TABLE: IDOTSSA_Standard Project Pen.tbl
 DRIVER: J:\Users\jcorcoran\OneDrive\Documents\DOT\DOT\1865013\Red Hills State Park\1865013\Drawings\DCN\CD_Sheets\1865013\Electrical Plan_10.dgn
 SHEET FILE: 1865013\1865013.dwg



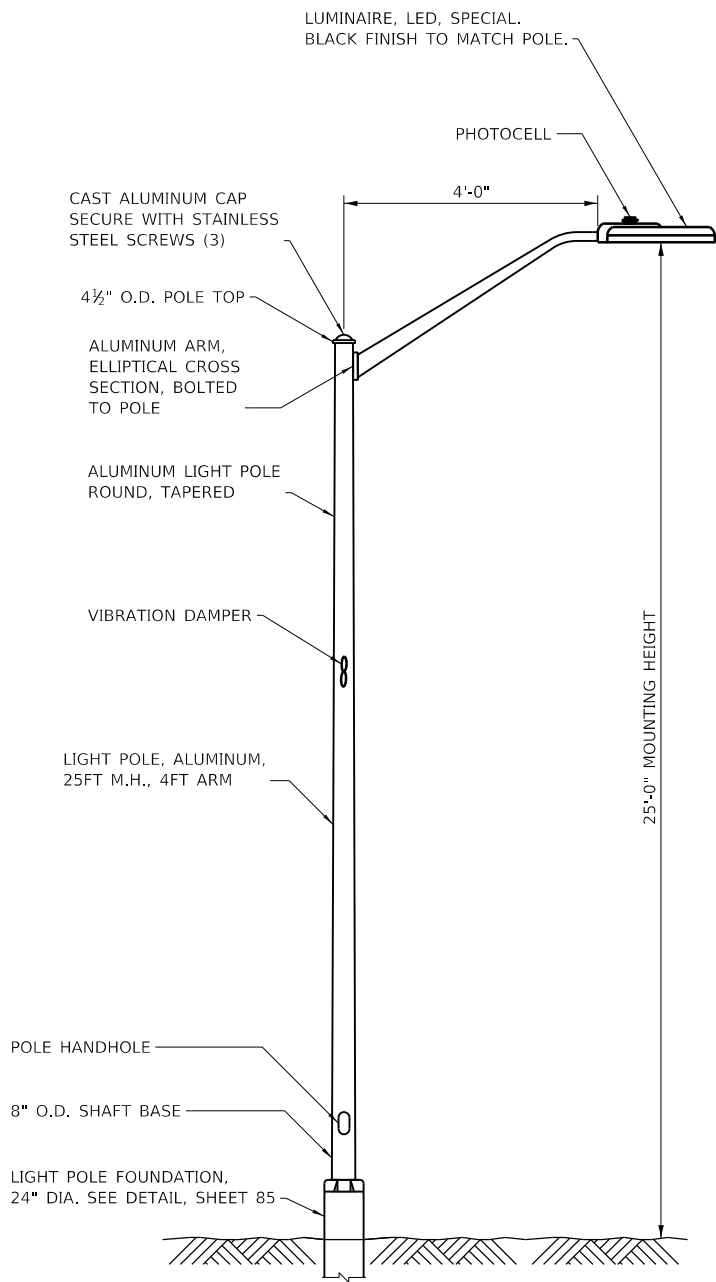
USER NAME = toconnor	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
PLOT SCALE = 24.00' / ft.	CHECKED - BMS	REVISED
PLOT DATE = 3/22/2021 13:56:54	DATE - 02/12/2021	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 250 MAIN PARK ENTRANCE - ELECTRICAL PLAN
RED HILLS STATE PARK**

SCALE: AS NOTED SHEET 10 OF 10 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	83
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	

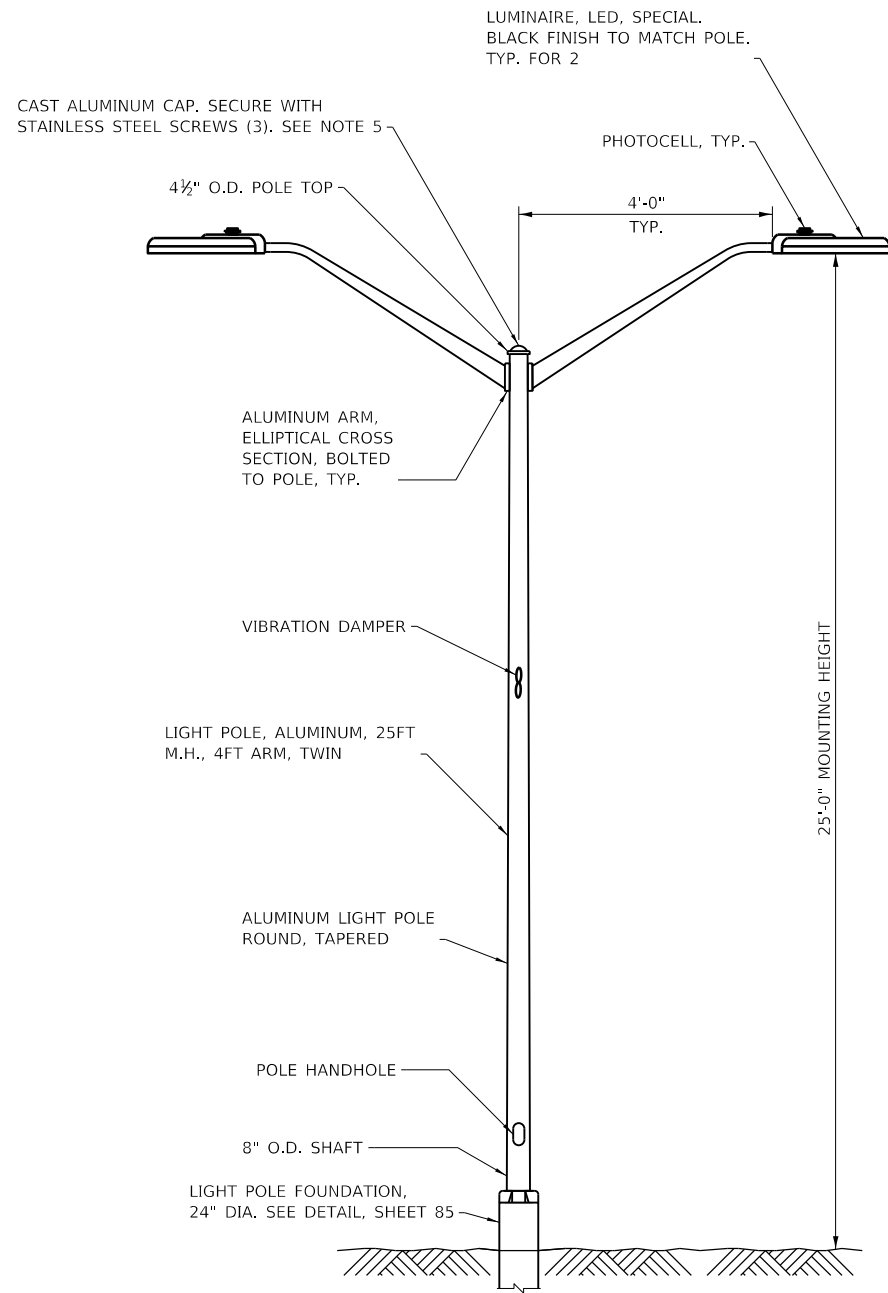


NOTES:

1. PROVIDE POLE, ARM AND LUMINAIRE WITH BLACK PAINT FINISH
2. POLE SHAFT WALL THICKNESS SHALL BE 0.156"
3. POLE ANCHOR BASE BOLT CIRCLE SHALL BE 11 1/2" DIA.
4. PROVIDE POLE WIRING ACORDING TO HIGHWAY STANDARD 821101-2 POLE WIRING SHALL BE INCLUDED IN LIGHTING ASSEMBLY PAY ITEM.

LIGHTING ASSEMBLY TYPE L1

N.T.S.

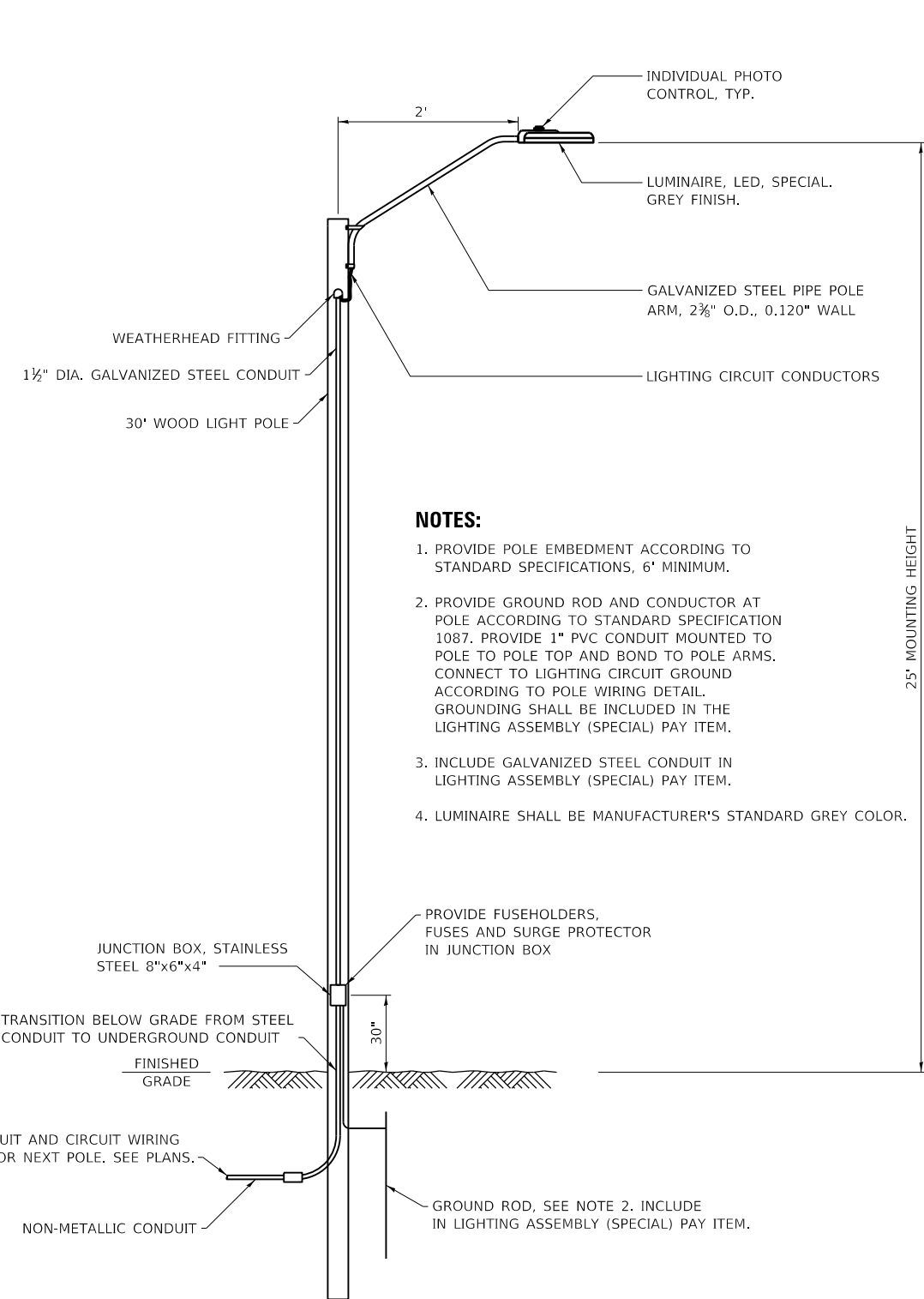


NOTES:

1. PROVIDE POLE, ARM AND LUMINAIRE WITH BLACK PAINT FINISH
2. POLE SHAFT WALL THICKNESS SHALL BE 0.156"
3. POLE ANCHOR BASE BOLT CIRCLE SHALL BE 11 1/2" DIA.
4. PROVIDE POLE WIRING ACORDING TO HIGHWAY STANDARD 821101-2 POLE WIRING SHALL BE INCLUDED IN LIGHTING ASSEMBLY PAY ITEM.
5. PROVIDE POLE AT THE RTE 250 ENTRANCE WITH A 2" O.D. VERTICAL TENON ON THE POLE TOP TO ACCEPT A FITTER FOR THE FLAG FLOOD LIGHT. FITTER SHALL BE INCLUDED IN FLOOD LIGHTING UNIT PAY ITEM.

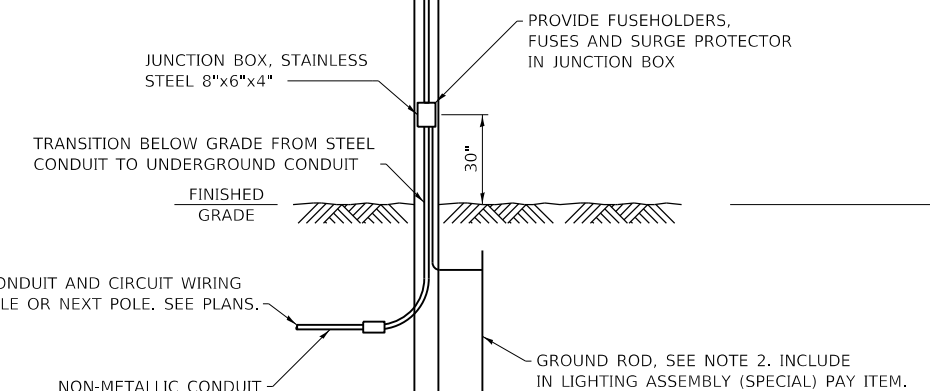
LIGHTING ASSEMBLY TYPE L2

N.T.S.



NOTES:

1. PROVIDE POLE EMBEDMENT ACCORDING TO STANDARD SPECIFICATIONS, 6' MINIMUM.
2. PROVIDE GROUND ROD AND CONDUCTOR AT POLE ACCORDING TO STANDARD SPECIFICATION 1087. PROVIDE 1" PVC CONDUIT MOUNTED TO POLE TO POLE TOP AND BOND TO POLE ARMS. CONNECT TO LIGHTING CIRCUIT GROUND ACCORDING TO POLE WIRING DETAIL. GROUNDING SHALL BE INCLUDED IN THE LIGHTING ASSEMBLY (SPECIAL) PAY ITEM.
3. INCLUDE GALVANIZED STEEL CONDUIT IN LIGHTING ASSEMBLY (SPECIAL) PAY ITEM.
4. LUMINAIRE SHALL BE MANUFACTURER'S STANDARD GREY COLOR.



LIGHTING ASSEMBLY TYPE L3

N.T.S.

PEN TABLE: DOTSSA_Standard Project Penetration
 DRIVER: FARNSWORTH GROUP
 SHEET: FILE: 820103018017720 - DOT P/B 186-013 Red Hills State Park04_DrawingDCNCA0_Sheet01.dgn

Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@fw.com

USER NAME = toconnor	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
PLOT SCALE = 24.00' / ft.	CHECKED - BMS	REVISED
PLOT DATE = 3/22/2021	DATE - 02/12/2021	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

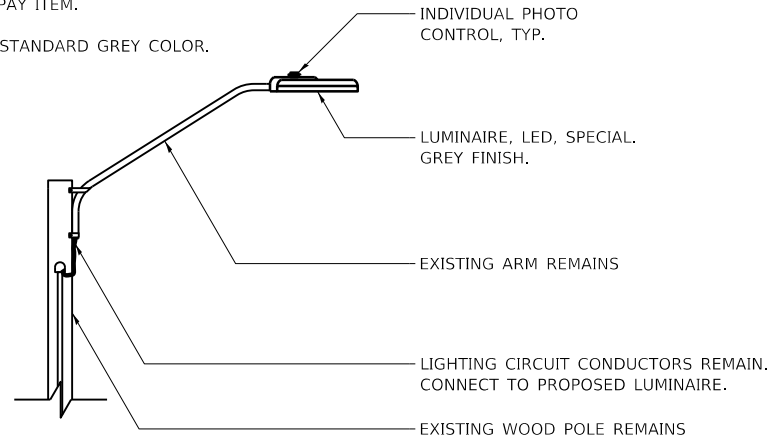
**ELECTRICAL DETAILS
 RED HILLS STATE PARK**

SCALE: NO SCALE SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	84
CONTRACT NO. 46928				
ILLINOIS		FED. AID PROJECT		

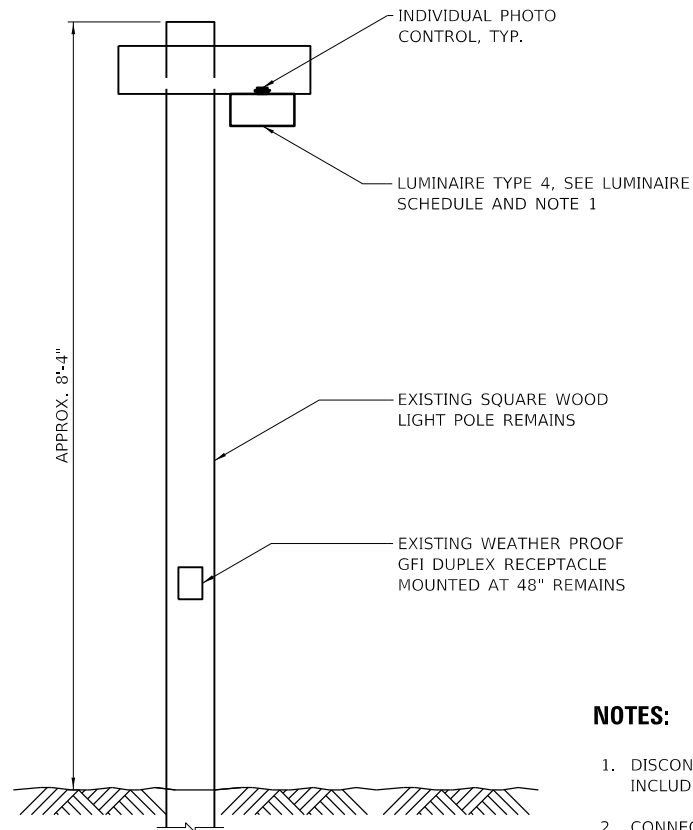
NOTES:

1. DISCONNECT, REMOVE AND DISPOSE EXISTING LUMINAIRE, INCLUDED IN LUMINAIRE REPLACEMENT PAY ITEM.
2. LUMINAIRE SHALL BE MANUFACTURER'S STANDARD GREY COLOR.



LUMINAIRE REPLACEMENT TYPE R1

N.T.S.



LUMINAIRE REPLACEMENT TYPE R2

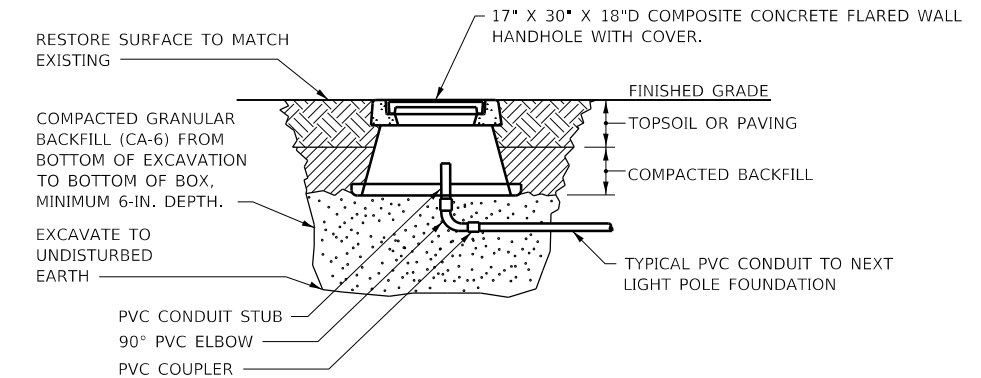
N.T.S.

NOTES:

1. DISCONNECT, REMOVE AND DISPOSE EXISTING LUMINAIRE, INCLUDED IN LUMINAIRE REPLACEMENT PAY ITEM.
2. CONNECT FIXTURE TO EXISTING LIGHTING CIRCUIT WIRING. CONNECT PHOTO CONTROL FOR DUSK TO DAWN CONTROL.

NOTES:

1. PROVIDE HANDHOLE ACCORDING TO STANDARD SPECIFICATIONS SECTION 814 AND WITH FEATURES SHOWN IN THIS DETAIL.
2. INSTALL TOP FLUSH WITH FINISHED GRADE. MATCH SLOPE OF FINISHED GRADE.
3. PROVIDE HANDHOLE COVER WITH LEGEND THAT READS "LIGHTING." COVER AND RIM SHALL BE CONCRETE GRAY COLOR.
4. SEE PLAN SHEETS FOR ACTUAL CONDUITS REQUIRED AT EACH LOCATION.
5. CONDUITS ENTERING HANDHOLE SHALL BE VERTICAL AND PERPENDICULAR TO BOTTOM OF BOX. POSITION CONDUITS NEAR CENTER OF BOX.
6. HANDHOLE ASSEMBLY SHALL BE RATED FOR TIER 15 LOADING.



HANDHOLE, COMPOSITE CONCRETE

NO SCALE

PEN TABLE: IDOTSSA_Standard Project Penetration
 DRIVER: 2211 BRADLEY AVENUE
 SHEET: CHAMPAIGN, ILLINOIS 61821
 FILE: 82010301801817720 - IDOT PTS 186-013 Red Hills State Park04_DrawingIDGNCGAD_Sheet0746928_083_Details_02.dgn



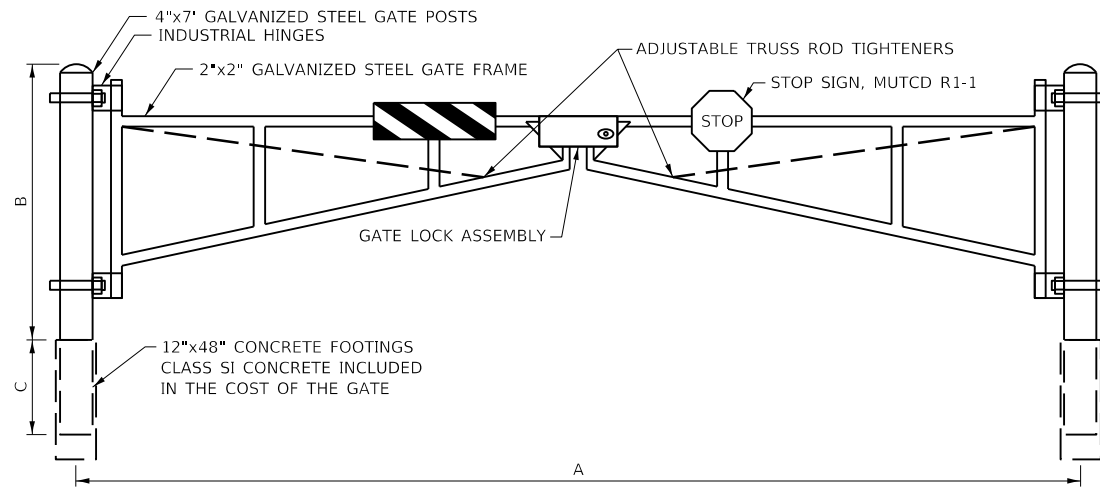
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PLOT SCALE = 24.00' / 1 ft.	DRAWN - WLB	REVISED
PLOT DATE = 3/22/2021	CHECKED - BMS	REVISED
13:58:56	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELECTRICAL DETAILS
RED HILLS STATE PARK

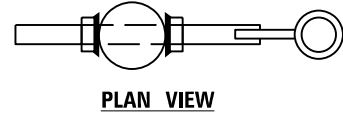
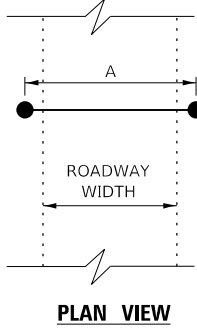
SCALE: NO SCALE SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	85
			CONTRACT NO. 46928	
		ILLINOIS	FED. AID PROJECT	

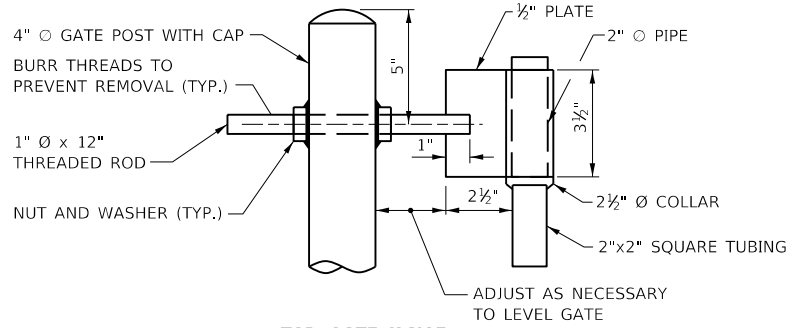


LOCATION	A	B	C
OFFICE PARKING LOT	22'	4'	3'
NORTH (US 50) ENTRANCE	29'	4'	3'
SOUTH (US 350) ENTRANCE	28'	4'	3'
CAHOKIA TRACE WEST SIDE	28'	4'	3'
CAHOKIA TRACE EAST SIDE	28'	4'	3'
RESTAURANT PARKING LOT	28'	4'	3'

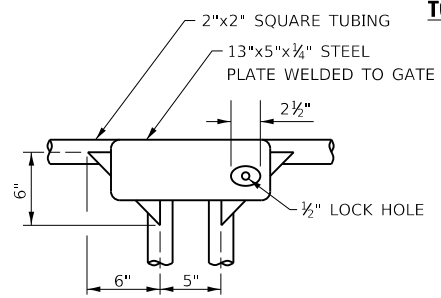
NOTE:
CONTRACTOR SHALL VERIFY DIMENSION "A" WITH
ENGINEER PRIOR TO MANUFACTURING GATE.



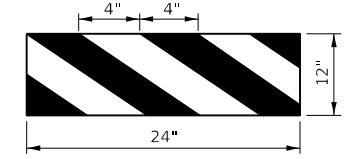
PLAN VIEW



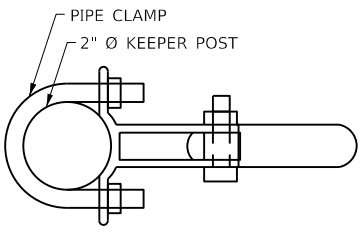
TOP GATE HINGE



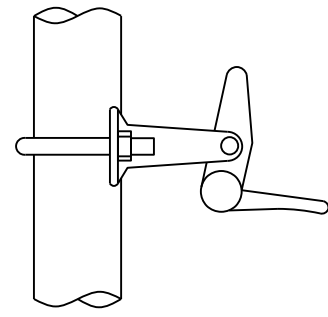
GATE LOCK ASSEMBLY



HORIZONTAL PANEL DETAIL
(YELLOW AND BLACK)

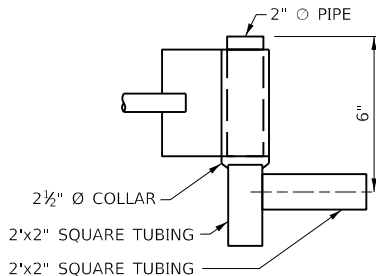


PLAN VIEW

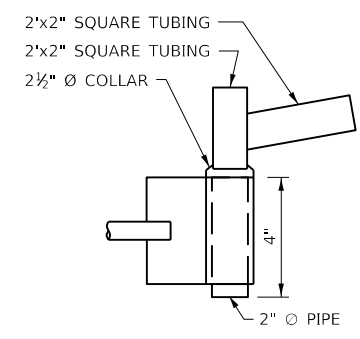


SIDE VIEW

AUTOMATIC GATE KEEPER



DETAIL AT TOP HINGE



DETAIL AT BOTTOM HINGE

GATE DETAILS

PEN TABLE: DRIVER: SHEET: F:\DOT\180718\180717\20 - DOT PTS 186-013 Red Hills State Park\04_Drawing\DCN\CAD_Sheet\0746928_095 Details 04.dgn

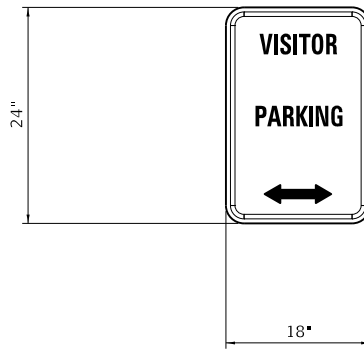


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PLOT DATE = 2/14/2021 11:17:58 PM	CHECKED - JGG	REVISED
	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

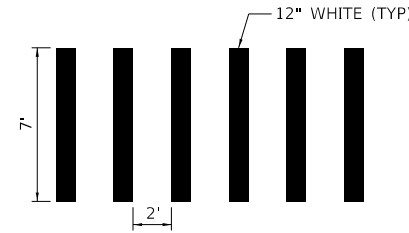
MISCELLANEOUS DETAILS	
RED HILLS STATE PARK	
SCALE: NO SCALE	SHEET 1 OF 5 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	87
			CONTRACT NO. 46928	
ILLINOIS FED. AID PROJECT				

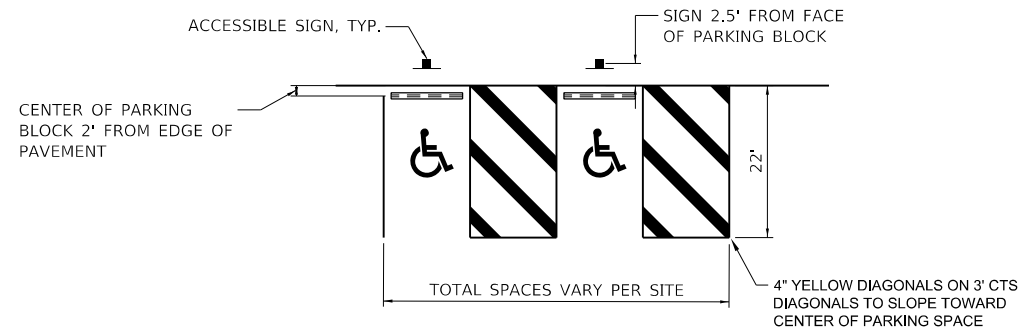


COLORS:
BORDER - GREEN
LETTERING - GREEN
BACKGROUND - WHITE

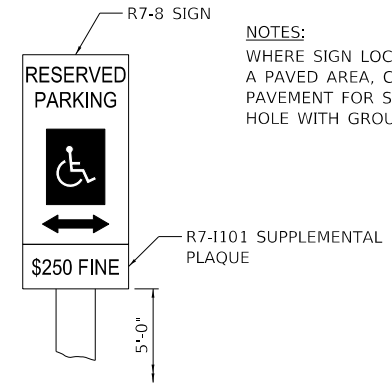
SIGN PANEL - TYPE 1 (SPECIAL)



PEDESTRIAN CROSSWALK STRIPING



DETAIL-ACCESSIBLE PARKING STRIPING

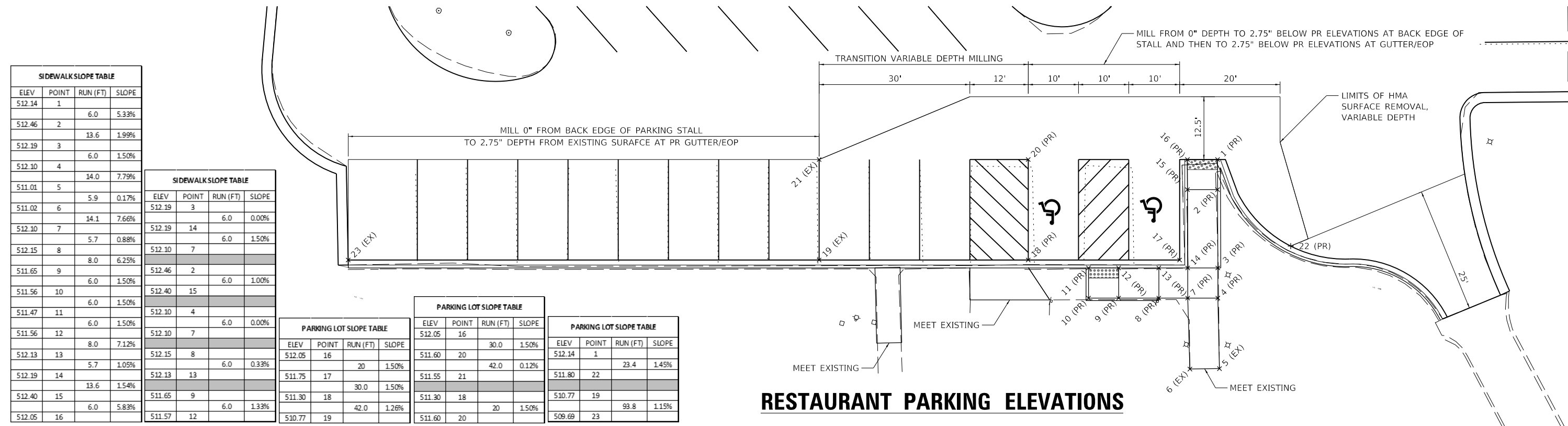


ACCESSIBLE SIGN

NOTES:
 WHERE SIGN LOCATION IS WITHIN A PAVED AREA, CORE-DRILL NEW PAVEMENT FOR SIGN PLACEMENT. FILL HOLE WITH GROUT AROUND POST, TYP.

NOTES

1. PAVEMENT MARKINGS SHALL CONFORM TO SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
2. ALL ACCESSIBLE PARKING STRIPING SHALL BE YELLOW.
3. ACCESSIBLE SYMBOLS SHALL BE LARGE SIZE CONTAINING 4.6 SQ FT OF AREA EACH.
4. ACCESSIBLE SIGNS SHALL CONSIST OF ILLINOIS STANDARD SIGNS: R7-8 "ACCESSIBILITY SYMBOL" R7-1101 "\$250 FINE"



SIDEWALK SLOPE TABLE			
ELEV	POINT	RUN (FT)	SLOPE
512.14	1	6.0	5.33%
512.46	2	13.6	1.99%
512.19	3	6.0	1.50%
512.10	4	14.0	7.79%
511.01	5	5.9	0.17%
511.02	6	14.1	7.66%
512.10	7	5.7	0.88%
512.15	8	8.0	6.25%
511.65	9	6.0	1.50%
511.56	10	6.0	1.50%
511.47	11	6.0	1.50%
511.56	12	8.0	7.12%
512.13	13	5.7	1.05%
512.19	14	13.6	1.54%
512.40	15	6.0	5.83%
512.05	16		

SIDEWALK SLOPE TABLE			
ELEV	POINT	RUN (FT)	SLOPE
512.19	3	6.0	0.00%
512.19	14	6.0	1.50%
512.10	7		
512.46	2	6.0	1.00%
512.40	15		
512.10	4	6.0	0.00%
512.10	7		
512.15	8	6.0	0.33%
512.13	13		
511.65	9	6.0	1.33%
511.57	12		

PARKING LOT SLOPE TABLE			
ELEV	POINT	RUN (FT)	SLOPE
512.05	16	20	1.50%
511.75	17	30.0	1.50%
511.30	18	42.0	1.26%
510.77	19		

PARKING LOT SLOPE TABLE			
ELEV	POINT	RUN (FT)	SLOPE
512.05	16	30.0	1.50%
511.60	20	42.0	0.12%
511.55	21		
511.30	18	20	1.50%
511.60	20		

PARKING LOT SLOPE TABLE			
ELEV	POINT	RUN (FT)	SLOPE
512.14	1	23.4	1.45%
510.77	19	93.8	1.15%
509.69	23		

RESTAURANT PARKING ELEVATIONS

PEN TABLE: DOTSSA_Standard Project Pen.tbl
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Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@fw.com

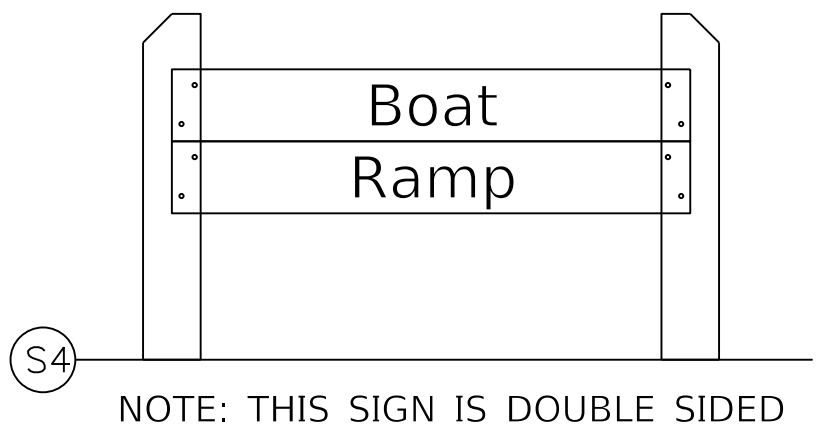
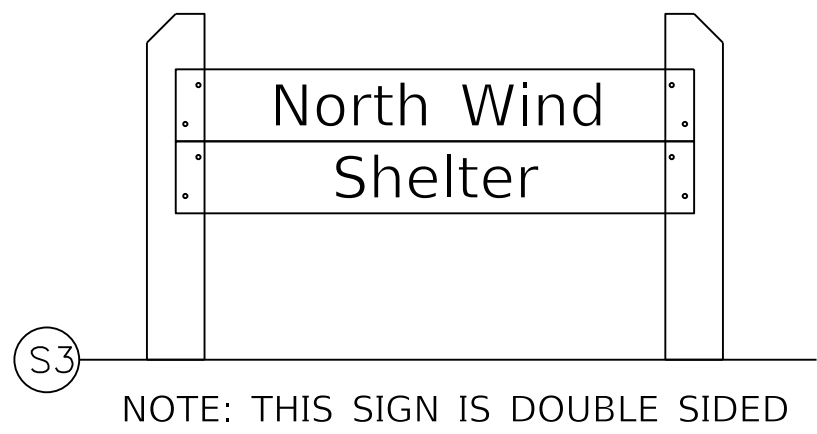
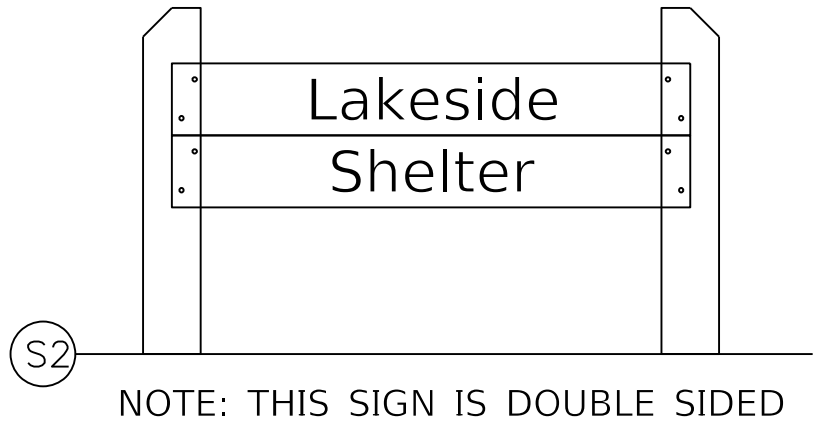
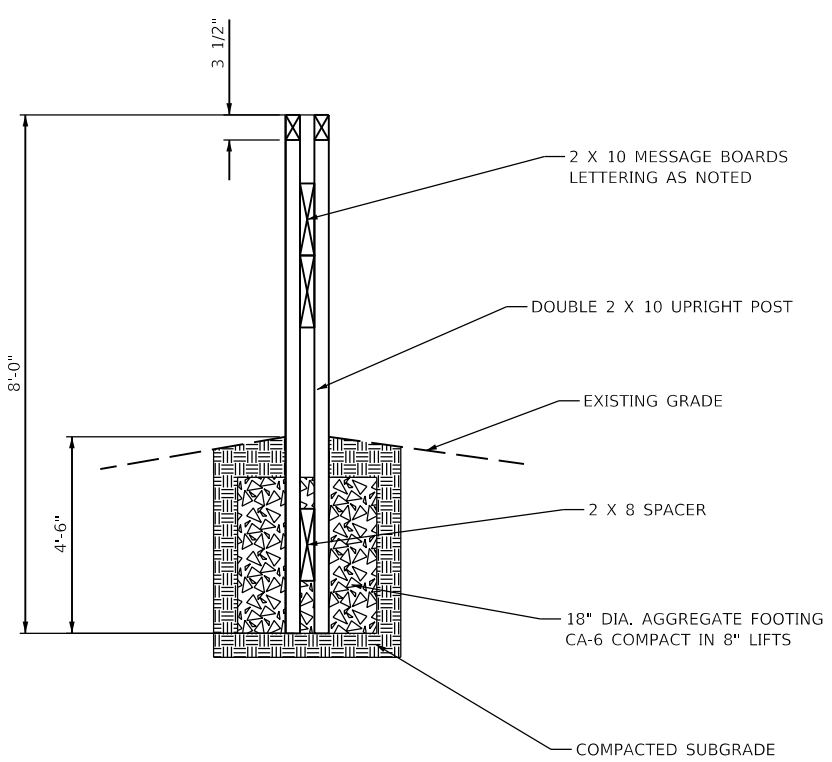
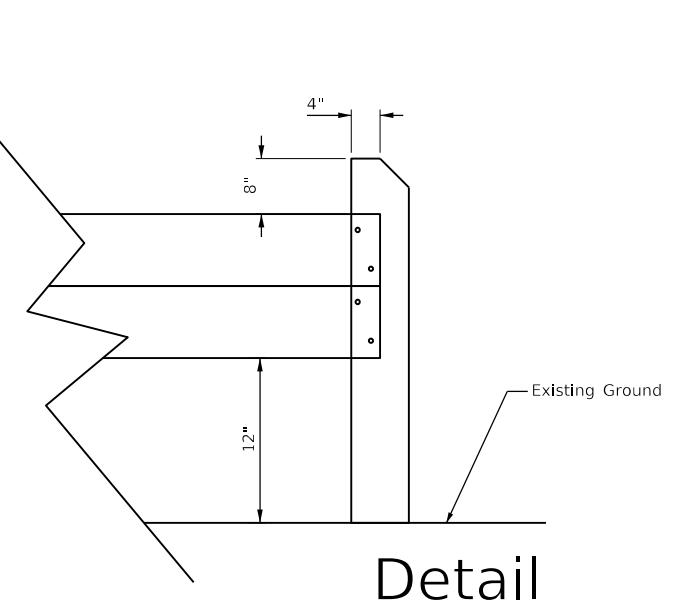
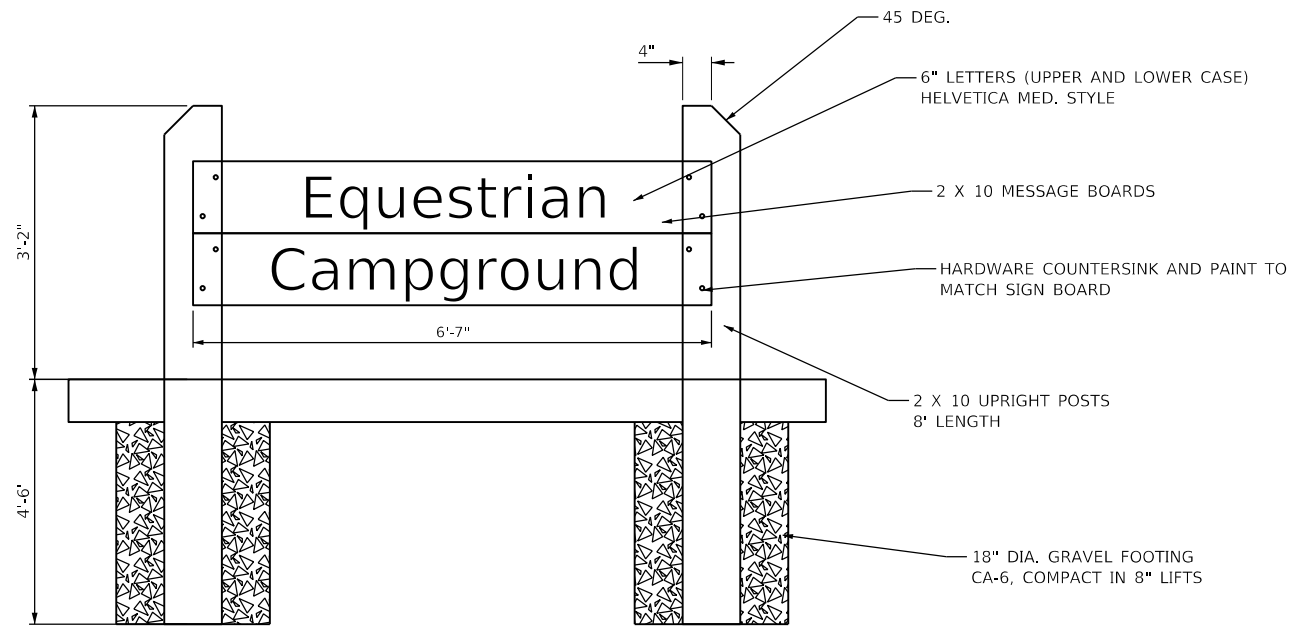
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PLOT DATE = 2/19/2021	CHECKED - JGG	REVISIONS
9:14:05 AM	DATE - 02/12/2021	REVISIONS

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS DETAILS
 RED HILLS STATE PARK**

SCALE: NO SCALE SHEET 2 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	RED HILLS 2021	LAWRENCE	98	88
CONTRACT NO. 46928			ILLINOIS FED. AID PROJECT	



SMALL ENTRANCE SIGN

PEN TABLE: IDOTSSA_Standard Project Pen.tbl
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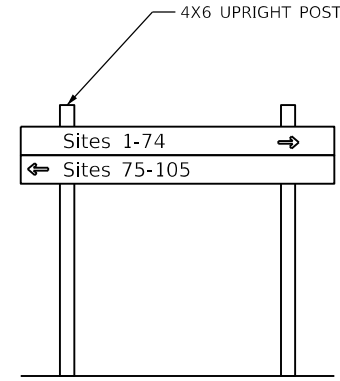
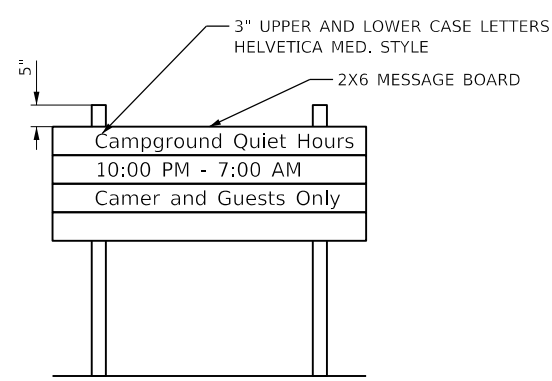
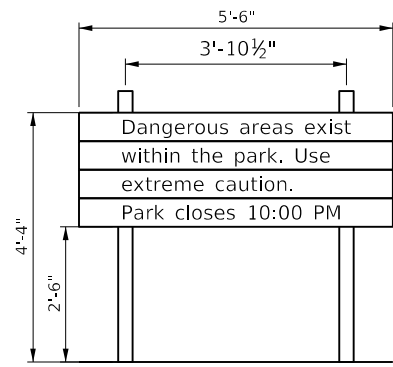
Farnsworth GROUP
 2211 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 352-7408 / info@fw.com

USER NAME = sjsanby	DESIGNED - WLB	REVISED
PLOT SCALE = 24.00' / ft.	DRAWN - WLB	REVISED
PLOT DATE = 2/14/2021	CHECKED - JGG	REVISED
11:18:02 PM	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
 RED HILLS STATE PARK
 SCALE: NO SCALE SHEET 3 OF 5 SHEETS STA. TO STA.

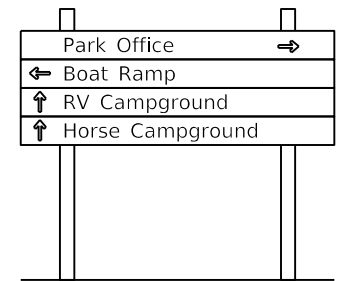
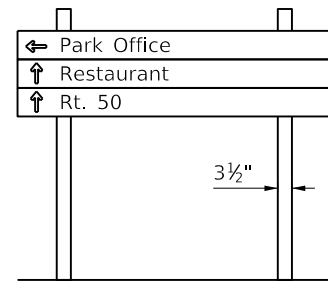
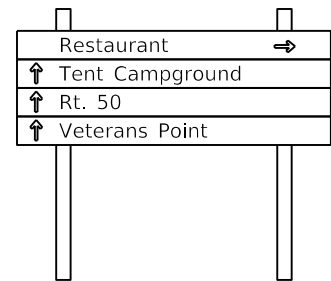
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	89
			CONTRACT NO. 46928	
ILLINOIS FED. AID PROJECT				



D1

D2

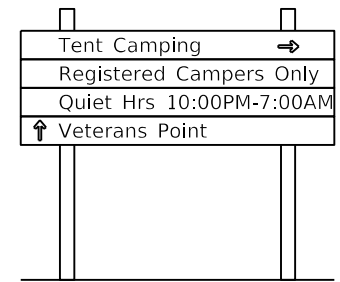
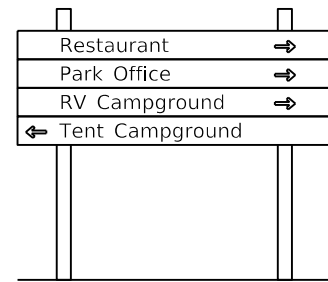
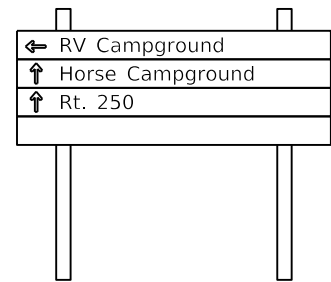
D3



D4

D5

D6

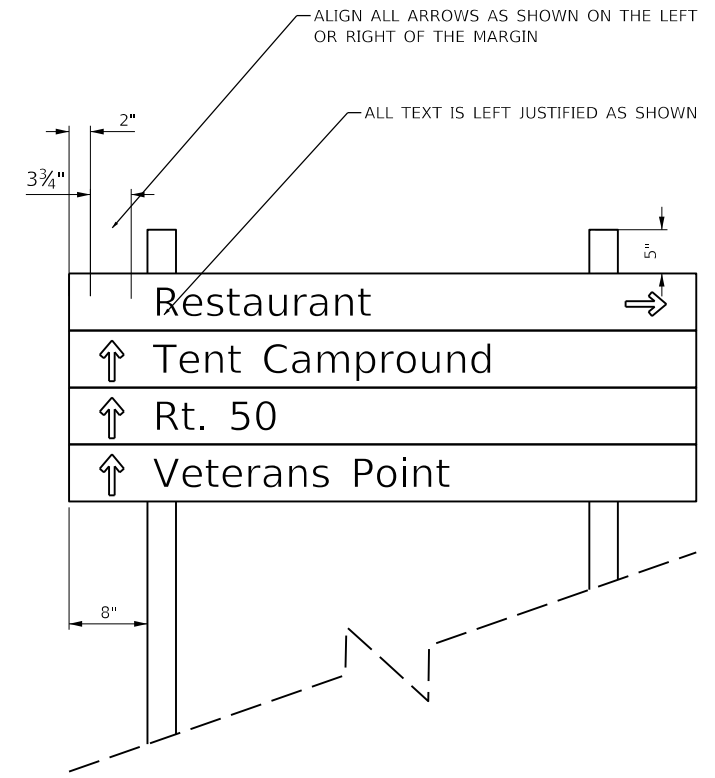


D7

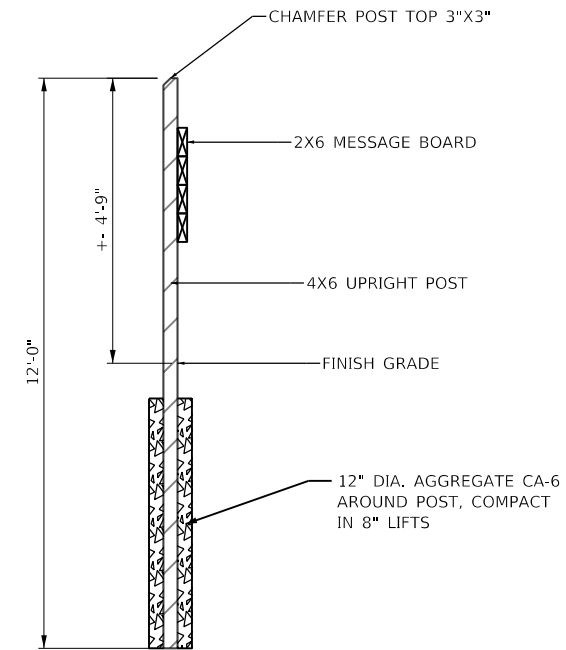
D8

D9

**RED HILLS STATE PARK
INTERPRETIVE SIGNAGE COMPLETE (LETTERING ONE SIDE ONLY)
SIGN STRUCTURE DETAIL**



ALIGNMENT DIMENSIONS DETAIL
N.T.S.



SECT. A-A

GENERAL NOTES:

- ALL LUMBER IS RECYCLED PLASTIC, BROWN IN COLOR. SUBMIT SAMPLES TO IDNR LANDSCAPE ARCHITECT FOR COLOR SELECTION PRIOR TO FABRICATION.
- MOUNTING HARDWARE AND STEEL FASTENERS (VARIOUS TYPES & SIZES) ARE NOT SHOWN, TO BE PROVIDED IN SHOP DRAWINGS REQUIRED BY CONTRACTOR. ALL EXPOSED HARDWARE ON SIGN FACES IS TO BE COUNTERSUNK AND PAINTED TO MATCH LUMBER COLOR.
- ALL LETTERING IS ALIGNED ON THE SIGN'S LEFT MARGIN AS SHOWN. LETTER STYLE IS UPPER AND LOWER CASE HELEVETICA MEDIUM STYLE. LETTERS ARE TO BE ENGRAVED WITH A COMPUTER OR TEMPLATE DRIVEN ROUTER SYSTEM. AFTER ENGRAVING APPLY ONE COAT OF A HEAVY DUTY PRIMER PAINT THAT WILL BOND TO PLASTIC SUBSTRATE AND (2) COATS OF ACRYLIC PAINT. USE EPOXY ADDITIVES TO ASSURE ADDITIONAL BONDING. FINISH COLOR OF ALL LETTERING TO BE BRIGHT WHITE.

PEN TABLE: IDOTSSA_Standard Project Penet...
 DRIVER: ...
 SHEET: ...

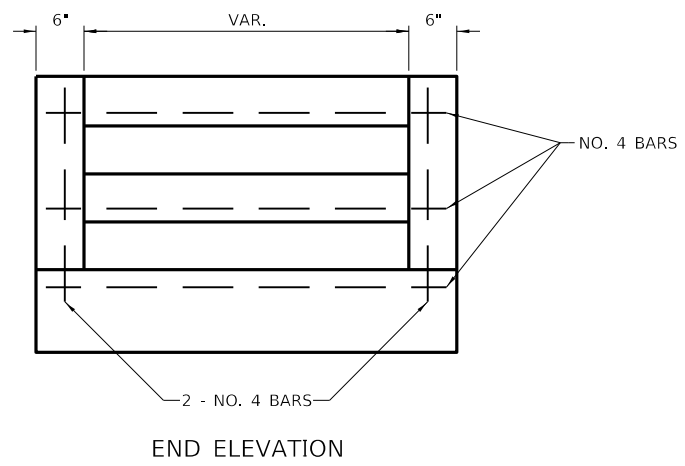


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11:18:04 PM	DATE - 02/12/2021	REVISED

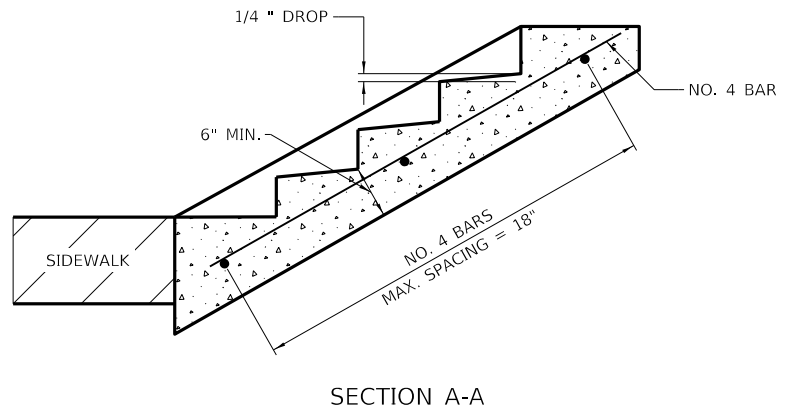
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MISCELLANEOUS DETAILS	
RED HILLS STATE PARK	
SCALE: NO SCALE	SHEET 4 OF 5 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	RED HILLS 2021	LAWRENCE	98	90
CONTRACT NO. 46928				
ILLINOIS / FED. AID PROJECT				



END ELEVATION



SECTION A-A

TABLE OF TREADS & RISERS

SLOPE	TREAD	RISER
1:2	12"	6"
1:3	15"	5"
1:4	17"	4 1/4"

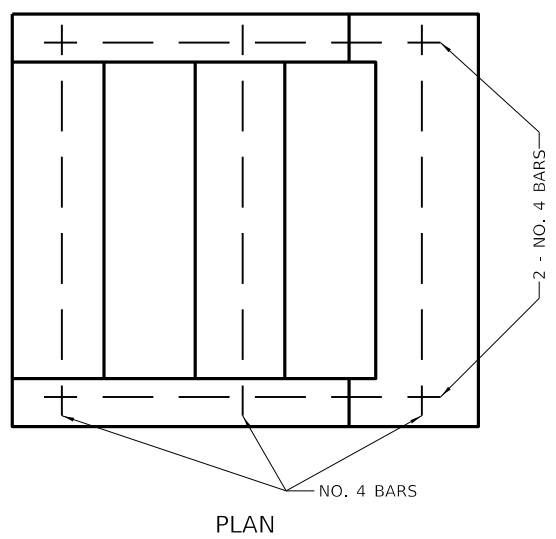
WHERE SLOPES FALL BETWEEN THOSE SHOWN IN THE TABLE ABOVE, THE STAIR RAIL SHOULD FIT THE SLOPE AND THE TREAD IN INCHES x THE RISER IN INCHES SHOULD BE BETWEEN 72 AND 78

EXAMPLE:
FOR A 1:4 SLOPE USE $y = \text{RISER HEIGHT } 4y = 75"$.
SOLVING $y = 75/4 = 18.75"$, $y = 4.3"$ (USE 4 1/4" FOR CONVENIENCE.)

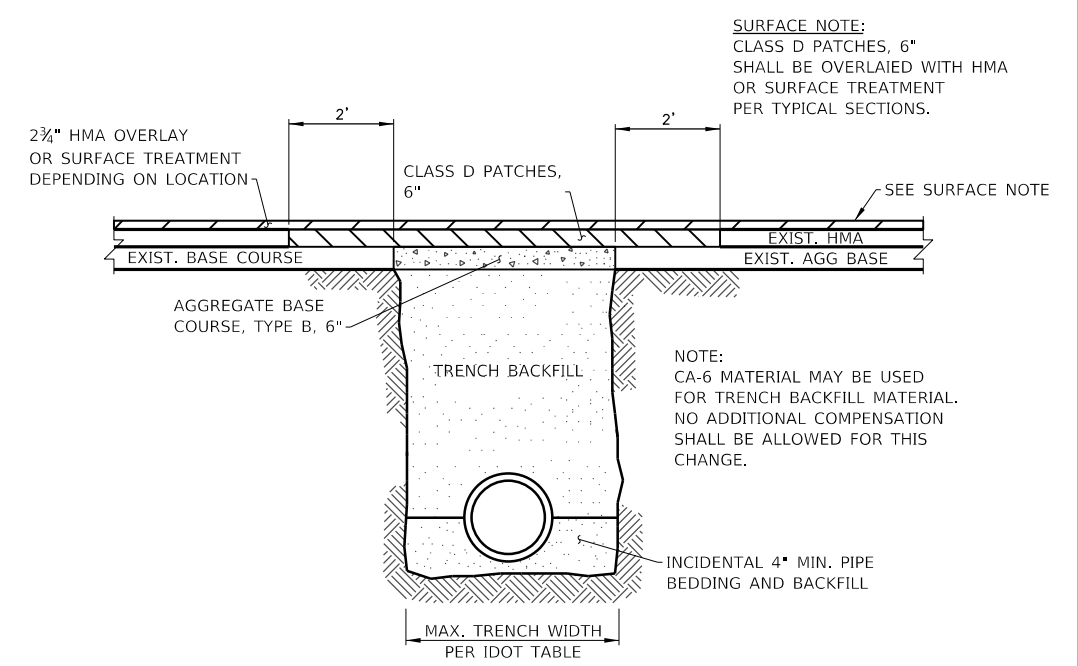
TREAD WOULD THEN BE $4 1/4" \times 4 = 17"$

COST OF REINFORCEMENT BARS SHALL BE INCLUDED IN THE COST FOR CONCRETE STEPS PAY ITEM.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT, WHICH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE STEPS.

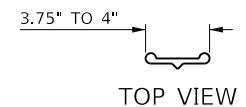


CONCRETE STEPS DETAIL
NOT TO SCALE

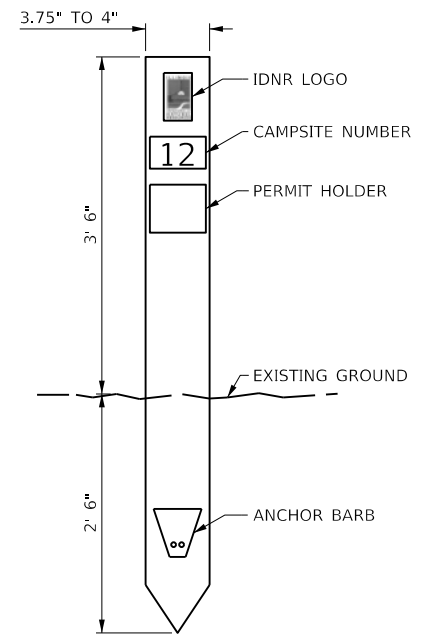


CULVERT BACKFILL METHOD

N.T.S.
FOR BACKFILLING BENEATH ASPHALT AND CRUSHED STONE SURFACES.



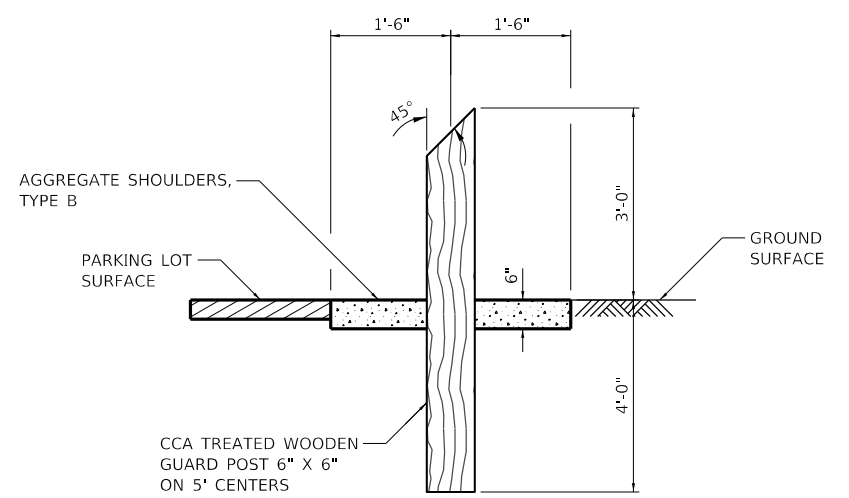
TOP VIEW



FRONT VIEW

- NOTES:**
- MARKERS SHALL BE OF FIBERGLASS REINFORCED COMPOSITE, BROWN IN COLOR.
 - SUBMIT SAMPLES TO IDNR FOR COLOR SELECTION PRIOR TO FABRICATION.

CAMPSITE MARKER



NOTE: 3' AGGREGATE SHOULDLERS, TYPE B, SHALL BE CONSTRUCTED A UNIFORM 6" THICK AT GUARD POST LOCATIONS

GUARD POST

PEN TABLE: DRIVER: SHEET: IDOTSSZ_Standard Project Pen.tbl
 FILE: 820103018017720 - IDOT P18 186-013 Red Hills State Park04_Drawing01DCN020_090 Details 08.dgn

Farnsworth GROUP
2211 BRADLEY AVENUE
CHAMPAIGN, ILLINOIS 61821
(217) 352-7408 / info@f-w.com

USER NAME = jgrimm	DESIGNED - WLB	REVISED
	DRAWN - WLB	REVISED
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PLOT DATE = 2/24/2021 7:16:12 AM	DATE - 02/12/2021	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
RED HILLS STATE PARK
SCALE: NO SCALE SHEET 5 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IDNR	RED HILLS 2021	LAWRENCE	98	91
			CONTRACT NO.	46928
ILLINOIS FED. AID PROJECT				

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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 SHEET: FILE: J:\2018\018017720 - IDOT PTB 186-013 Red Hills State Park\04 Drawings\DGN\CAD Sheets\D746928_100 Red Hills Cross XSEC 01.dgn

Farnsworth
 GROUP
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 CHAMPAIGN, ILLINOIS 61821
 (317) 352-7489 / fhn@fsw.com

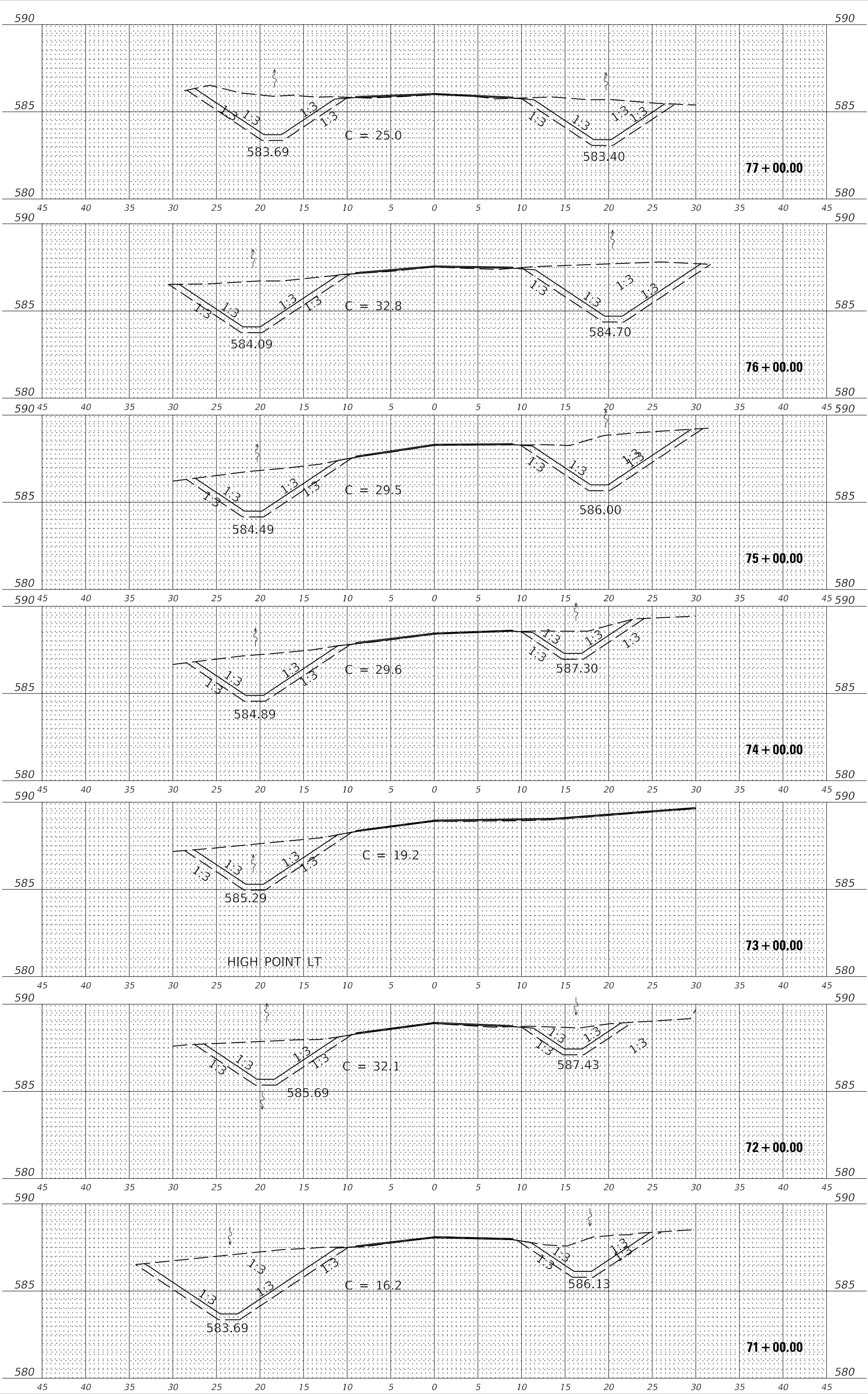
USER NAME = fhn001
 DESIGNED - WLB
 DRAWN - WLB
 CHECKED - JGG
 DATE - 02/12/2021

REVISIONS
 REVISION
 REVISION
 REVISION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RED HILLS CROSS ROAD CROSS SECTIONS - 01
 RED HILLS STATE PARK
 SCALE: 1"=40' (H)/1"=1.25' (V) SHEET 1 OF 7 SHEETS STA. 0+50 TO STA. 2+00

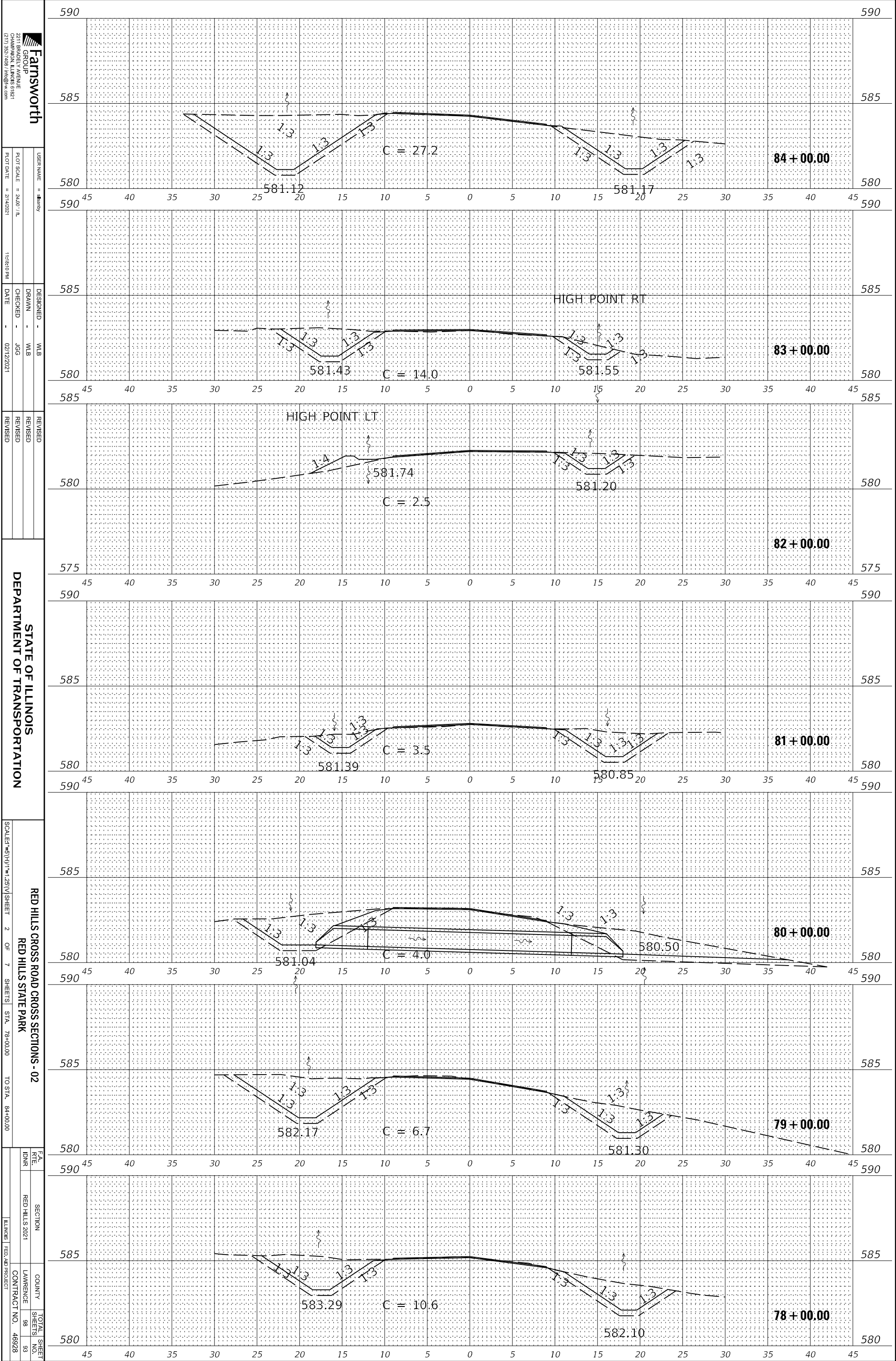
FA. RTE. SECTION
 ILLINOIS FED. AID PROJECT
 COUNTY LAURENCE
 CONTRACT NO. 46928
 TOTAL SHEET NO. 98
 SHEETS NO. 92



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

PEN TABLE: IDOTSS4_Standard Project Pen.tbl
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 (217) 352-7488 / fhn@fsw.com

USER NAME = fhn001
 DRAWN = WLB
 CHECKED = JGG
 DATE = 02/12/2021

DESIGNED = WLB
 DRAWN = WLB
 CHECKED = JGG
 DATE = 02/12/2021

REVISIONS
 REVISION
 REVISION
 REVISION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RED HILLS CROSS ROAD CROSS SECTIONS - 02
 RED HILLS STATE PARK
 SCALE: 1"=100'
 SHEET 2 OF 7 SHEETS STA. 78+00.00 TO STA. 84+00.00

FA RTE	SECTION	COUNTY	TOTAL SHEETS
INDR	RED HILLS 2021	LAWRENCE	98
			93
		CONTRACT NO.	46928
		ILLINOIS FED. AID PROJECT	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS CHECKED			

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS CHECKED			

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Farnsworth
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 2221 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 252-7498 / fne@fsw.com

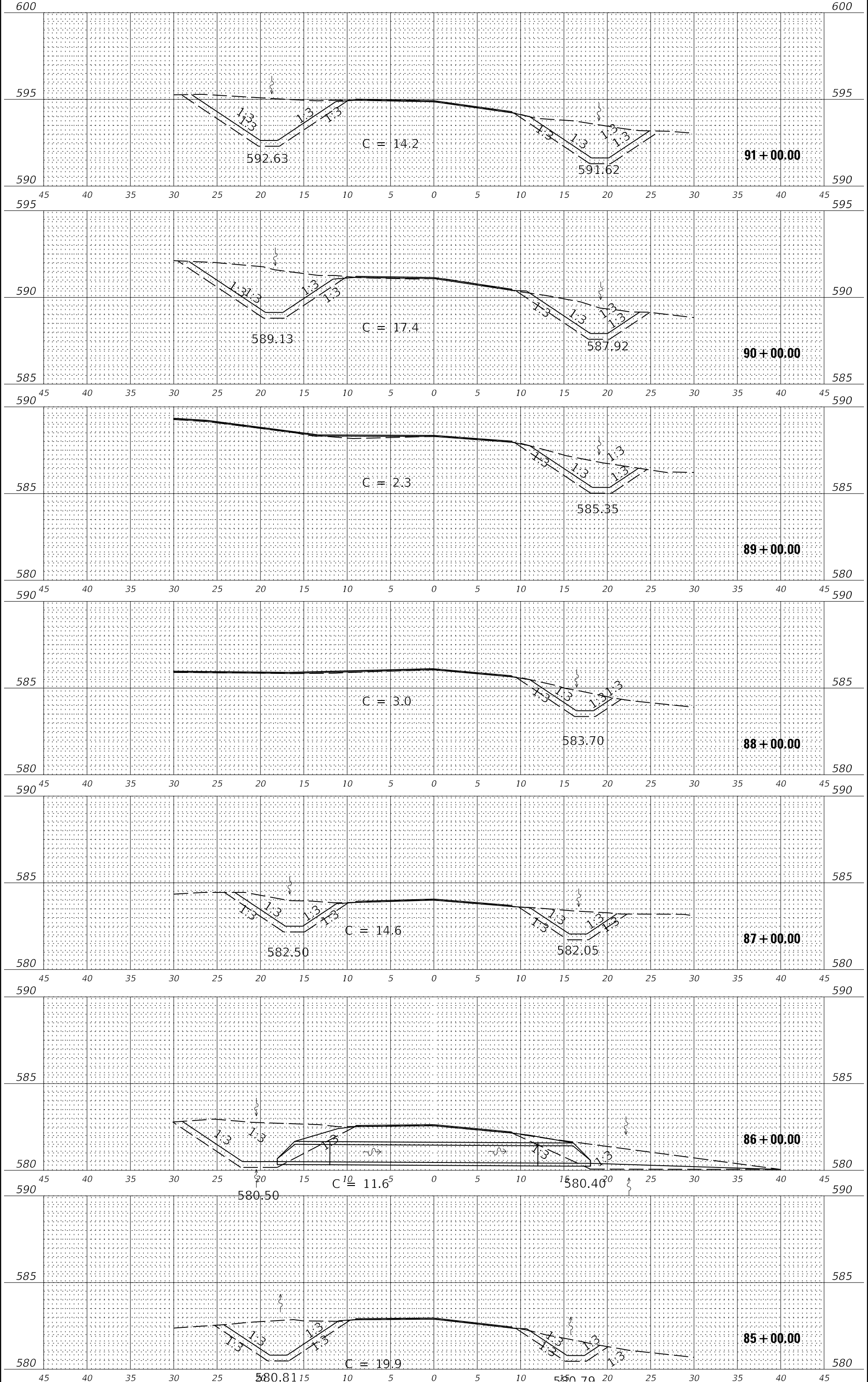
USER NAME = fne@fsw.com
 DESIGNED - WLB
 DRAWN - WLB
 CHECKED - JGG
 DATE - 02/12/2021

REVISIONS
 REVISION
 REVISION
 REVISION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RED HILLS CROSS ROAD CROSS SECTIONS - 03
 RED HILLS STATE PARK
 SCALE: 1"=40.00'
 SHEET 3 OF 7 SHEETS
 STA. 85+00.00 TO STA. 91+00.00

SECTION
 RED HILLS 2021
 COUNTY
 LAWRENCE
 CONTRACT NO.
 46928



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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Farnsworth
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 2221 BRADLEY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (317) 352-7498 / fnc@fsw.com

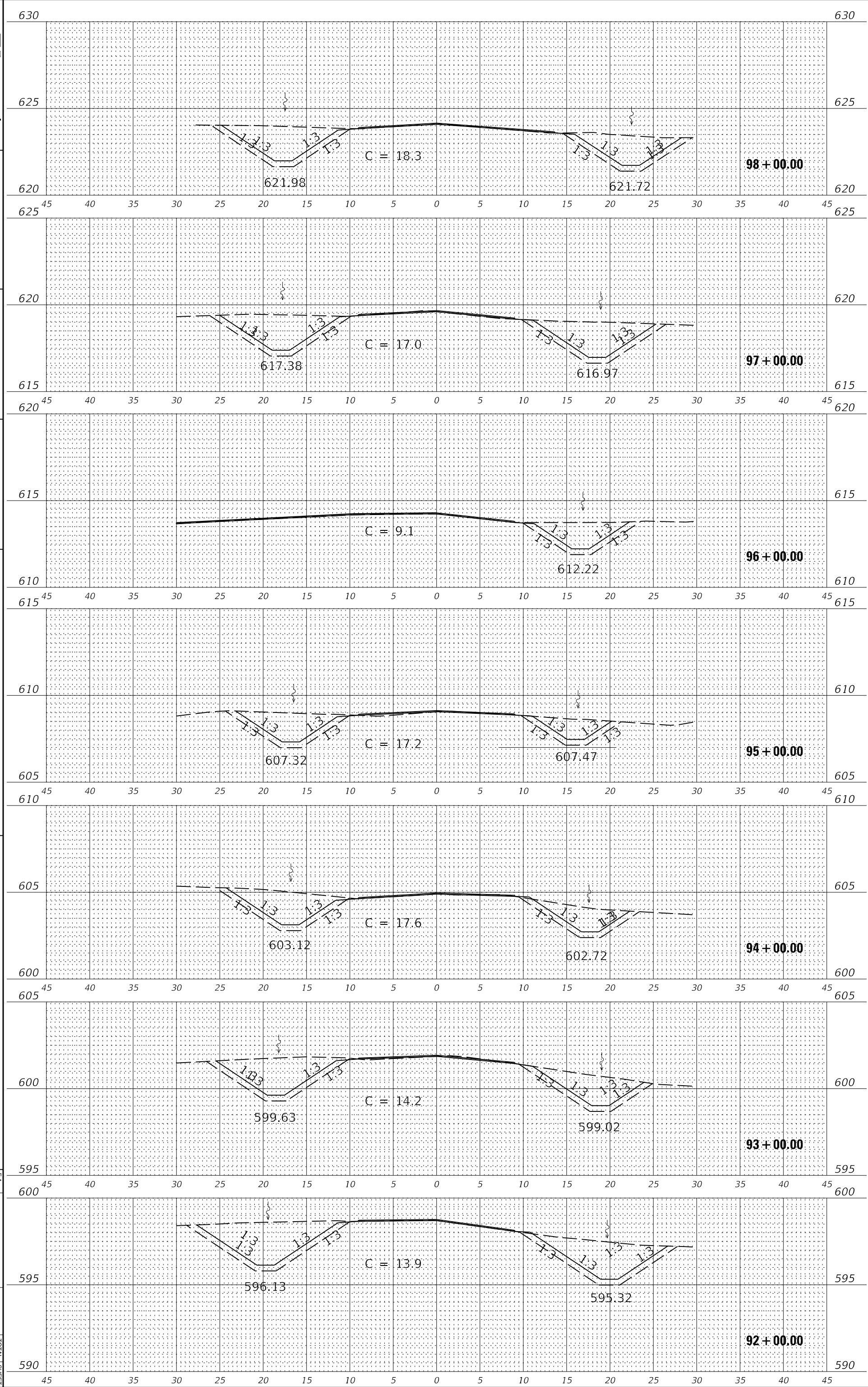
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 DRAWN - WLB
 CHECKED - JGG
 DATE - 02/12/2021

REVISIONS
 REVISION NO. | DESCRIPTION | DATE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RED HILLS CROSS ROAD CROSS SECTIONS - 04
 RED HILLS STATE PARK
 SCALE: 1"=40' (H)/1"=1.25' (V) SHEET 4 OF 7 SHEETS STA. 92+00.00 TO STA. 98+00.00

FA RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO.
 ILLINOIS | RED HILLS STATE PARK | LAWRENCE | 98 | 96
 CONTRACT NO. 46928
 FED. AID PROJECT



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		
NO.			

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		
NO.			

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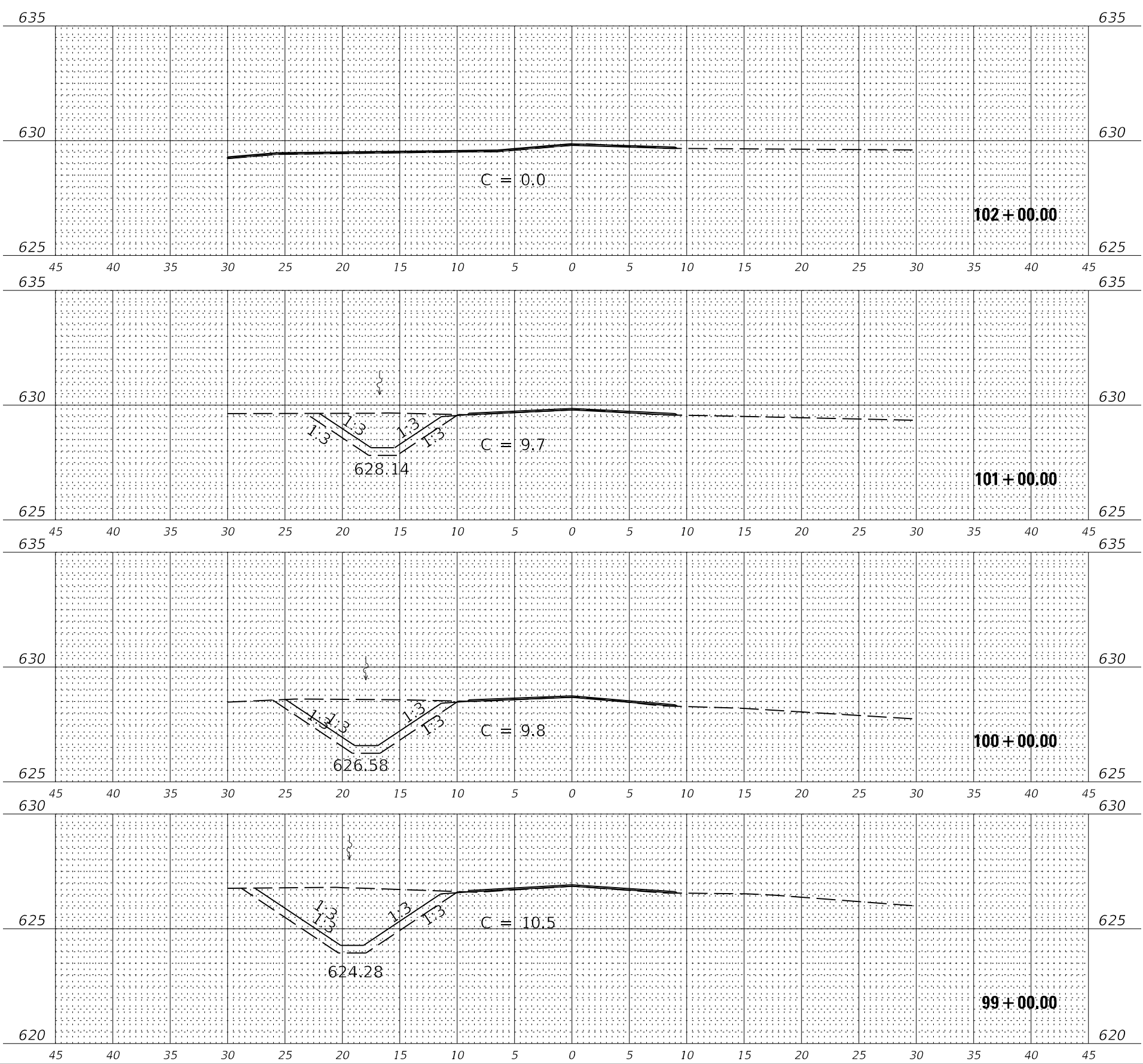
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PLLOT SCALE = 2400' / 1" = 11:18:15 PM	DRAWN - WLB
PLLOT DATE = 2/14/2021	CHECKED - JGC
	DATE - 02/12/2021

REVISION	REVISION
REVISION	REVISION
REVISION	REVISION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RED HILLS CROSS ROAD CROSS SECTIONS - 05
 RED HILLS STATE PARK
 SCALE: 1" = 125' (V) SHEET 5 OF 7 SHEETS STA. 99+00.00 TO STA. 102+00.00

FA. RTE.	SECTION	COUNTY	TOTAL SHEETS
INDR	RED HILLS 2021	LAWRENCE	98
			96
		CONTRACT NO.	46928
		ILLINOIS FED. AID PROJECT	



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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Farnsworth
 GROUP
 2211 BERARDY AVENUE
 CHAMPAIGN, ILLINOIS 61821
 (217) 552-7489 / fnc@fsw.com

USER NAME = farnsworth
 DESIGNER = WLB
 DRAWN = WLB
 CHECKED = JGG
 DATE = 02/12/2021

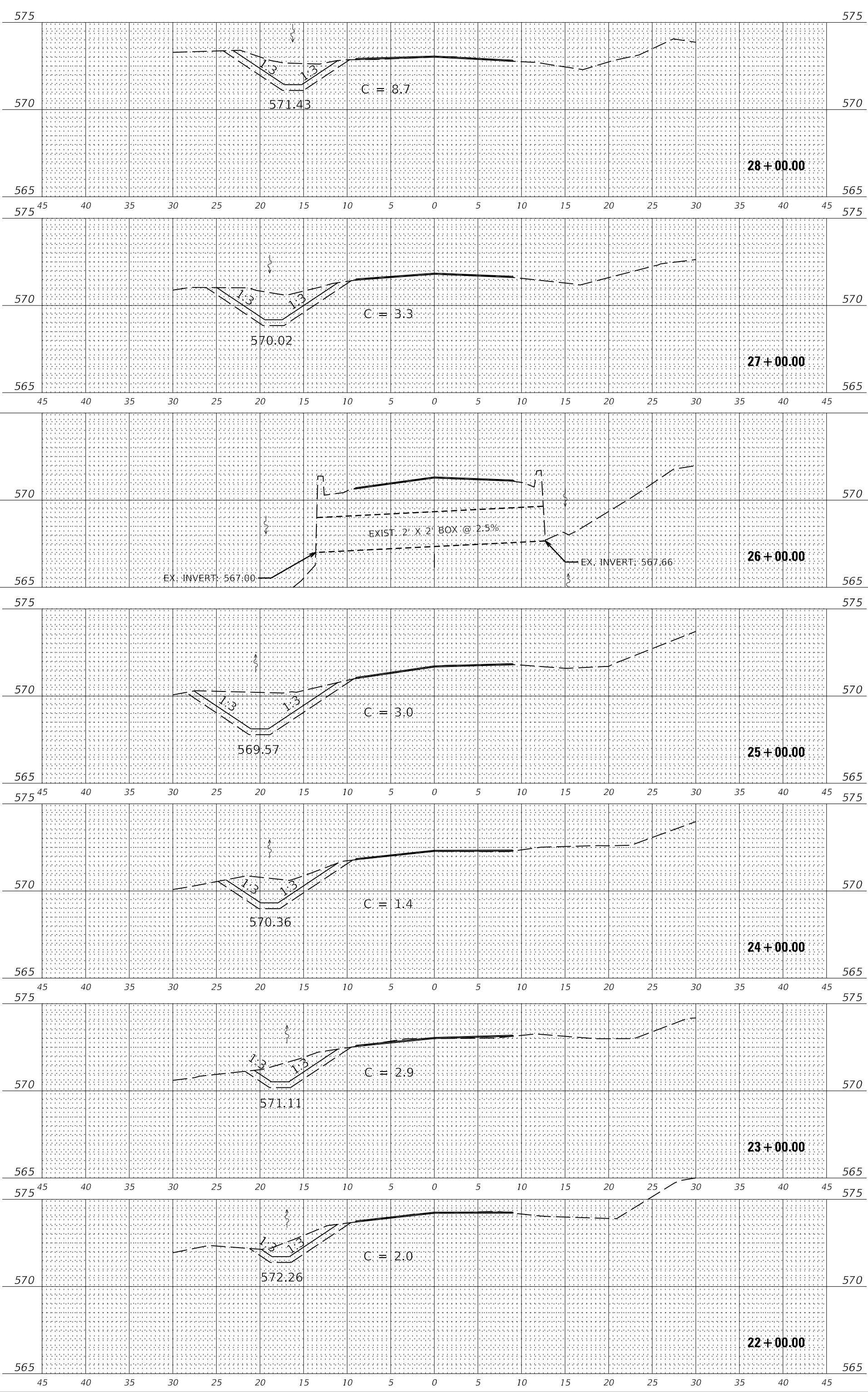
DESIGNED - WLB
 DRAWN - WLB
 CHECKED - JGG
 DATE - 02/12/2021

REVISIONS
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

1120 N ROAD CROSS SECTIONS - 01
 RED HILLS STATE PARK
 SCALE: H=1/4"=1.25(V) SHEET 6 OF 7 SHEETS STA. 22+00.00 TO STA. 28+00.00

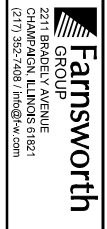
FA RTE	SECTION	COUNTY	TOTAL SHEET
INDR	RED HILLS 2021	LAWRENCE	98
			97
		CONTRACT NO.	46928
		ILLINOIS	FED. AID PROJECT



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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USER NAME = fhe	DESIGNED - WLB
DESIGN DATE = 2/14/2021	DRAWN - WLB
CHECKED - JGC	DATE - 02/12/2021

REVISIONS	REVISIONS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

1120 N ROAD CROSS SECTIONS - 02
 RED HILLS STATE PARK
 SCALE: H=1/4"=1.25V SHEET 7 OF 7 SHEETS STA. 29+00.00 TO STA. 32+00.00

FA RTE. I/55	SECTION	COUNTY	TOTAL SHEETS
DRVR	RED HILLS STATE PARK	LAWRENCE	98
			98
		CONTRACT NO. 46928	
		ILLINOIS FED. AID PROJECT	

