

CONSTRUCTION PLANS

FOR

JOLIET REGIONAL AIRPORT

JOLIET, WILL COUNTY, ILLINOIS

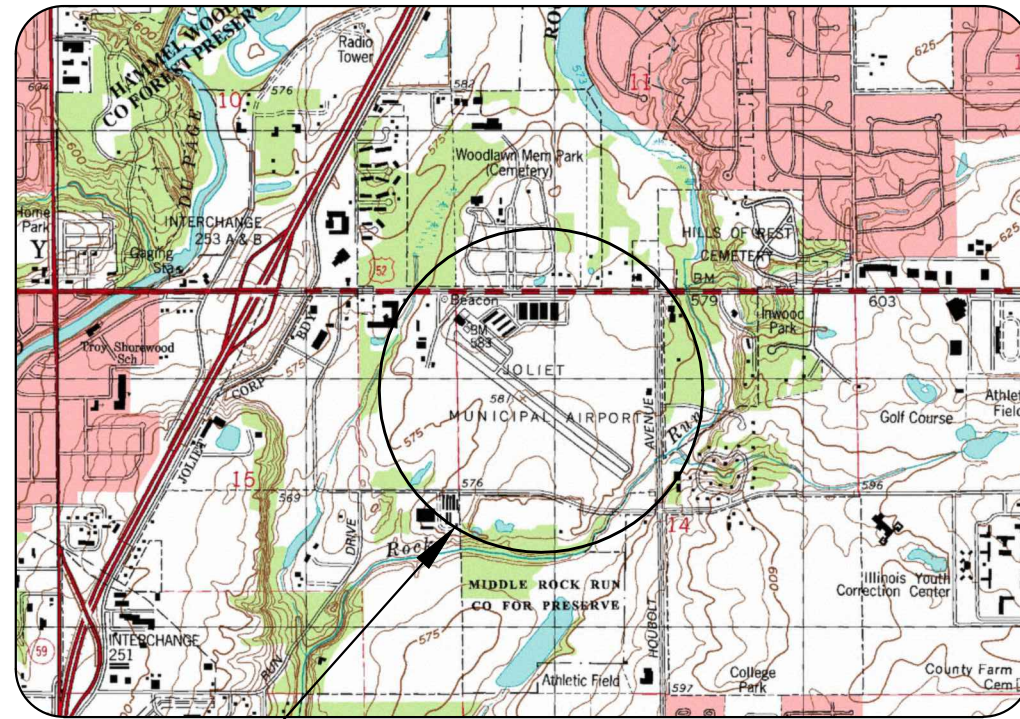
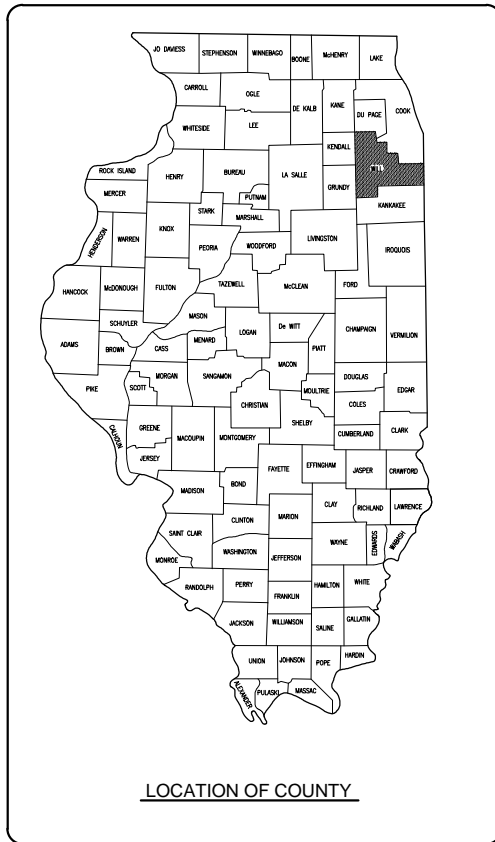
REHABILITATE RUNWAY 13-31, REPLACE APRON AND CONSTRUCT TAXIWAY A1

SCOPE OF WORK

RUNWAY 13-31 - THIS PORTION OF THE PROJECT INCLUDES BUT IS NOT LIMITED TO MILLING, CRACK CLEANING AND SEALING, PAVEMENT REPAIRS, PAVING, SHOULDER ADJUSTMENT, SEEDING, MULCHING AND PAVEMENT MARKING

APRON - THE PORTION OF THE PROJECT INCLUDES BUT IS NOT LIMITED TO MILLING, EARTHWORK, DRAINAGE, PAVING, TIEDOWN PLACEMENT, AND PAVEMENT MARKING.

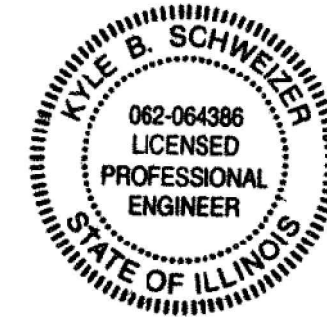
CONNECTING TAXIWAY A1 - THIS PORTION OF THE PROJECT INCLUDES BUT IS NOT LIMITED TO EARTHWORK, PAVING, AND PAVEMENT MARKING



LOCATION

ILL. PROJ.: JOT-4043
A.I.P. PROJ.: 3-17-0056-B6
LATITUDE: 41° 31' 03"
LONGITUDE: 88° 10' 30"
ELEVATION: 581.0' M.S.L.
DATE: APRIL 20, 2012

PROJECT LOCATION



Submitted by: *Kyle B. Schweizer* ENG'R
Date Submitted: *MAY 14, 2012*
Lic. Exp. Date: *NOV. 30, 2013*

JOLIET PARK DISTRICT

Approved: *[Signature]* CHAIRMAN
Date: *MAY 14, 2012*

REVISION	DATE										
<p>JOLIET REGIONAL AIRPORT JOLIET PARK DISTRICT JOLIET, ILLINOIS</p>											
<p>ILL. PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6</p>											
<p>Hanson Project No. 09A0152D_0001 Filename: R-001CVR.DWG Scale: NOT TO SCALE Date: 5/14/12</p>											
LAYOUT		KBS		4/20/12		DRAWN		BAK		01/13/10	
REVIEWED		RAW		4/20/12		Hanson Professional Services Inc.		1525 South Sixth Street Springfield, IL 62762-2886 Offices Nationwide		COVER SHEET	
<p>REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1</p>											
<p style="font-size: 2em;">1</p>											
<p>1 of 44 sheets</p>											

DATE	
REVISION	
BY	

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	F/S/L	S/L	TOTAL QUANTITIES	AS BUILT QUANTITIES
AR150510	ENGINEER'S FIELD OFFICE	LS	1	0	1	
AR150540	HAUL ROUTE	LS	1	0	1	
AR152410	UNCLASSIFIED EXCAVATION	CY	6,100	0	6,100	
AR152480	SHOULDER ADJUSTMENT	SY	8,590	0	8,590	
AR156510	SILT FENCE	LF	1,580	0	1,580	
AR156513	SEPARATION FABRIC	S.Y.	18,161	0	18,161	
AR156520	INLET PROTECTION	EACH	16	0	16	
AR201661	CLEAN & SEAL BITUMINOUS CRACKS	LF	2,495	1,663	4,158	
AR201910	REMOVE & REPLACE BIT. PAVEMENT	SY	362	242	604	
AR209606	CRUSHED AGGREGATE BASE COURSE, 6"	SY	18,161	0	18,161	
AR401613	BIT. SURF. CSE. - METHOD I, SUPERPAVE	TON	2,155	0	2,155	
AR401620	BIT. SURFACE COURSE, LEVELING	TON	1,640	1,096	2,736	
AR401630	BITUMINOUS SURFACE TEST SECTION	EACH	1	0	1	
AR401650	BITUMINOUS PAVEMENT MILLING	S.Y.	28,038	12,288	40,326	
AR401655	BUTT JOINT CONSTRUCTION	SY	796	114	910	
AR402622	POROUS FRICTION COURSE, 0.10'	SY	18,809	12,540	31,349	
AR403613	BIT. BASE CSE - METHOD I, SUPERPAVE	TON	2,155	0	2,155	
AR501900	REMOVE PCC PAVEMENT	SY	23	0	23	
AR510510	TIE DOWN	EACH	39	0	39	
AR602510	BITUMINOUS PRIME COAT	GAL.	5,356	0	5,356	
AR603510	BITUMINOUS TACK COAT	GAL.	10,202	5,016	15,218	
AR620520	PAVEMENT MARKING - WATERBORNE	SF	18,250	3,535	21,785	
AR620525	PAVEMENT MARKING - BLACK BORDER	SF	910	190	1,100	
AR620530	PAVEMENT MARKING - EPOXY	SF	550	0	550	
AR701512	12" RCP CLASS IV	LF	175	0	175	
AR701515	15" RCP CLASS IV	LF	472	0	472	
AR751411	INLET TYPE A	EACH	1	0	1	
AR751414	INLET TYPE D	EACH	5	0	5	
AR751920	REPLACE INLET	EACH	2	0	2	
AR751940	ADJUST INLET	EACH	1	0	1	
AR800589	BIT MILLINGS SUBBASE, 6"	SY	18,161	0	18,161	
AR901510	SEEDING	ACRE	3.8	0.0	3.8	
AR095510	TOPSOILING (FROM ON SITE)	C.Y.	990	0	990	
AR908510	MULCHING	ACRE	3.8	0.0	3.8	

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	SUMMARY OF QUANTITIES AND INDEX TO SHEETS
3	PROJECT CONTROL, ALIGNMENT & SAFETY PLAN
4	TYPICAL SECTIONS
5	APRON SITE PREPARATION AND EROSION CONTROL PLAN
6	RUNWAY SITE PREP & EROSION CONTROL PLAN STA. 20+00 TO STA. 35+00
7	RUNWAY SITE PREP & EROSION CONTROL PLAN STA. 35+00 TO STA. 50+00
8	APRON DRAINAGE PLAN & SCHEDULE
9	DRAINAGE AND EROSION CONTROL DETAILS
10	APRON GRADING AND PAVING PLAN
11	RUNWAY 13-31 PLAN & PROFILE STA. 19+00 TO STA. 24+50
12	RUNWAY 13-31 PLAN & PROFILE STA. 24+50 TO STA. 30+00
13	RUNWAY 13-31 PLAN & PROFILE STA. 30+00 TO STA. 35+50
14	RUNWAY 13-31 PLAN & PROFILE STA. 35+50 TO STA. 41+00
15	RUNWAY 13-31 PLAN & PROFILE STA. 41+00 TO STA. 46+50
16	RUNWAY 13-31 PLAN & PROFILE STA. 46+50 TO STA. 51+00
17	TAXIWAY A1 PLAN & PROFILE
18	RUNWAY STAKING PLAN STA. 20+00 TO STA. 35+00
19	RUNWAY STAKING PLAN STA. 35+00 TO STA. 50+00
20	APRON MARKING PLAN
21	RUNWAY MARKING PLAN STA. 20+00 TO STA. 27+00
22	RUNWAY MARKING PLAN STA. 27+00 TO STA. 35+00
23	RUNWAY MARKING PLAN STA. 35+00 TO STA. 50+00
24	APRON LANDSCAPING PLAN
25	RUNWAY LANDSCAPING PLAN STA. 20+00 TO STA. 35+00
26	RUNWAY LANDSCAPING PLAN STA. 35+00 TO STA. 50+00
27	APRON CROSS SECTIONS STA. 120+30 TO STA. 121+00
28	APRON CROSS SECTIONS STA. 121+50 TO STA. 122+00
29	APRON CROSS SECTIONS STA. 122+50 TO STA. 123+50
30	APRON CROSS SECTIONS STA. 124+00 TO STA. 125+00
31	APRON CROSS SECTIONS STA. 125+50 TO STA. 126+50
32	APRON CROSS SECTIONS STA. 127+00 TO STA. 127+78
33	APRON CROSS SECTIONS STA. 128+00 TO STA. 128+50
34	RUNWAY 13-31 CROSS SECTIONS STA. 19+00 TO STA. 21+47
35	RUNWAY 13-31 CROSS SECTIONS STA. 21+00 TO STA. 24+00
36	RUNWAY 13-31 CROSS SECTIONS STA. 24+50 TO STA. 27+00
37	RUNWAY 13-31 CROSS SECTIONS STA. 27+50 TO STA. 29+50
38	RUNWAY 13-31 CROSS SECTIONS STA. 30+00 TO STA. 32+50
39	RUNWAY 13-31 CROSS SECTIONS STA. 33+00 TO STA. 35+50
40	RUNWAY 13-31 CROSS SECTIONS STA. 36+00 TO STA. 38+50
41	RUNWAY 13-31 CROSS SECTIONS STA. 39+00 TO STA. 41+50
42	RUNWAY 13-31 CROSS SECTIONS STA. 42+00 TO STA. 44+50
43	RUNWAY 13-31 CROSS SECTIONS STA. 45+00 TO STA. 47+50
44	RUNWAY 13-31 CROSS SECTIONS STA. 48+00 TO STA. 49+70

JOLIET REGIONAL AIRPORT
JOLIET PARK DISTRICT
JOLIET, ILLINOIS

IL PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

Hanson Project No. 09A0152D_0001	4/20/12
Filename: R-002ELP.DWG	04/20/12
Scale: NOT TO SCALE	RAW
Date: 5/14/12	
LAYOUT	KBS
DRAWN	BAK
REVIEWED	RAW



REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

SUMMARY OF QUANTITIES AND INDEX TO SHEETS

SCOPE OF WORK

RUNWAY 13-31 - THIS PORTION OF THE PROJECT INCLUDES BUT IS NOT LIMITED TO MILLING, CRACK CLEANING AND SEALING, PAVEMENT REPAIRS, PAVING, SHOULDER ADJUSTMENT, SEEDING, MULCHING AND PAVEMENT MARKING.

APRON - THE PORTION OF THE PROJECT INCLUDES BUT IS NOT LIMITED TO MILLING, EARTHWORK, DRAINAGE, PAVING, TIEDOWN PLACEMENT, AND PAVEMENT MARKING.

CONNECTING TAXIWAY A1 - THIS PORTION OF THE PROJECT INCLUDES BUT IS NOT LIMITED TO EARTHWORK, PAVING, AND PAVEMENT MARKING.

COORDINATION

CONSTRUCTION OF THIS PROJECT WILL LIKELY TAKE PLACE CONCURRENT WITH AN AIRFIELD LIGHTING AND ELECTRICAL PROJECT. CONTRACTORS MUST COORDINATE TO AVOID CONFLICT.

PROPOSED SAFETY PLAN

GENERAL - THE JOLIET REGIONAL AIRPORT IS COMPRISED OF TWO RUNWAYS. THE PROPOSED CONSTRUCTION WILL NECESSITATE CLOSING BOTH RUNWAYS. ANY TIME THE CONTRACTOR IS WORKING WITHIN 200' OF THE RUNWAY CENTERLINE THE RUNWAY WILL BE CLOSED. ALL WORK INCLUDED IN OPENING AND CLOSING THE RUNWAY WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. ALL NOTAM'S WILL BE ISSUED BY AIRPORT PERSONNEL. THE CONTRACTOR WILL COORDINATE DEACTIVATION OF THE BEACON AND ALL LIGHTING AND NAVAIDS WITH THE AIRPORT.

IDENTIFICATION - WHEN THE CONTRACTORS VEHICLES AND EQUIPMENT ARE ON THE AIRPORT THEY SHALL BE PROPERLY MARKED WITH THREE (3') FOOT SQUARE CHECKERED FLAGS (INTERNATIONAL ORANGE AND WHITE). THE CONTRACTOR WILL ALSO PROVIDE WORKERS WITH SOME TYPE OF TAG OR GARMENT TO IDENTIFY THE PERSON AS BEING PART OF THE CONSTRUCTION CREW.

RADIO CONTROL - THE CONTRACTOR WILL BE REQUIRED TO BE IN TWO-WAY RADIO CONTACT (122.70 MHz.) WITH THE AIRPORT UNICOM. THIS WILL KEEP THE CONTRACTOR IN CONSTANT CONTACT WITH THE JOLIET REGIONAL AIRPORT AND ENABLE THE AIRPORT TO IMMEDIATELY CONTACT THE CONTRACTOR IN CASE OF AN AERONAUTIC EMERGENCY THAT WOULD REQUIRE ACTION BY THE CONTRACTOR AND/OR HIS PERSONNEL.

HAUL ROUTE AND VEHICLE PARKING

THE CONTRACTOR WILL USE THE DESIGNATED HAUL ROUTE AND PARKING AREA AS SHOWN ON THIS SHEET. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE PROPOSED HAUL ROUTE AND PARKING AREA THROUGHOUT THE COURSE OF THE PROJECT. ANY AREAS DAMAGED OUTSIDE OF THESE AREAS WILL BE REPAIRED BY THE CONTRACTOR AND AT THE CONTRACTOR'S OWN EXPENSE. AT THE CONCLUSION OF THE PROJECT THE CONTRACTOR WILL GRADE, FERTILIZE, SEED AND MULCH THE HAUL ROUTE AND PARKING AREA AS NEEDED TO RESTORE IT TO ITS' ORIGINAL STATE. RESTORATION OF THE HAUL ROUTE AND PARKING AREA WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

CONTRACTOR RESPONSIBILITIES

THE CONTRACTOR'S EQUIPMENT PARKING AND STORAGE AREA WILL BE AS SHOWN ON THIS SHEET. THE CONTRACTOR'S EMPLOYEES WILL PARK THEIR VEHICLES IN THIS AREA. ONLY CONTRACTOR VEHICLES WILL BE ALLOWED OUTSIDE THIS AREA.

ALL WORK PERFORMED SHALL BE DONE IN A ORDERLY AND EFFECTIVE MANNER TO MINIMIZE RUNWAY CLOSURE AND INTERRUPTIONS TO THE REFUELING AREA ON THE APRON.

BARRICADES AND TRAFFIC CONES

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE AND MAINTAIN BARRICADES AND TRAFFIC CONES AS DIRECTED BY THE AIRPORT MANAGER. THE BARRICADES WILL BE EQUIPPED WITH RED FLASHING OR RED STEADY-BURN LIGHTS AND 20" SQUARE ORANGE FLAGS. THE BARRICADES, THEIR MAINTENANCE, PLACEMENT AND REMOVAL WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

LEGEND

- EXISTING IMPROVEMENTS
- PROPOSED IMPROVEMENTS
- EXISTING BUILDINGS
- PROPOSED HAUL ROUTE AND EQUIPMENT PARKING AREA
- PROPOSED CONTROL POINT
- PROPOSED BARRICADES OR TRAFFIC CONES

AIRCRAFT OPERATION LINE

THE CONTRACTOR WILL LOCATE THIS LINE AT THE START OF CONSTRUCTION AND WILL PLACE FRANGIBLE MARKER EVERY 150' ALONG IT. THIS LINE WILL BE THE LIMITS THAT ALL CONTRACTOR PERSONNEL MAY VENTURE WHEN A RUNWAY IS NOT CLOSED. THE CONTRACTOR WILL MAINTAIN THE LINE FOR EACH RUNWAY FOR THE DURATION OF THE PROJECT.

EROSION CONTROL

THIS PROJECT WILL DISTURB MORE THAN 1 ACRE OF LAND, THEREFORE A N.P.D.E.S. PERMIT WILL BE REQUIRED.

HEIGHT OF CONSTRUCTION EQUIPMENT

THE MAXIMUM ANTICIPATED HEIGHT OF THE CONSTRUCTION EQUIPMENT WILL BE 20 FEET. THE TALLEST EQUIPMENT IS EXPECTED TO BE A DUMP TRUCK.

HORIZONTAL AND VERTICAL CONTROL DATA

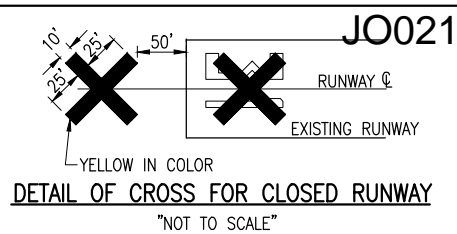
NO.	DESCRIPTION	NORTHING	EASTING	ELEV.
1.	NGS BRASS MONUMENT "G142 1947" NAVD 88. LOCATED ON THE N.E. FACE OF THE AIRPORT TERMINAL.	***	***	583.15
2.	NGS BRASS MONUMENT "JOLIPOINT" NAD83 (2007) IL. E. ZONE.	1,767,814.89	1,026,441.63	579.87
3.	NGS BRASS MONUMENT "JOLIPOINT AZ MK" NAD83 (2007), IL. E. ZONE.	1,766,728.01	1,027,868.33	581.29

CERTIFIED PAYROLLS

THE RESIDENT ENGINEER CANNOT FORWARD CONSTRUCTION REPORTS TO THE ILLINOIS DIVISION OF AERONAUTICS FOR PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THE PERIOD HAVE BEEN RECEIVED.

MATERIAL CERTIFICATION

COMPLETED WORK CANNOT BE PLACED ON A CONSTRUCTION REPORT UNTIL ALL MATERIAL CERTIFICATIONS FOR THAT PAY ITEM HAVE BEEN RECEIVED, REVIEWED AND ACCEPTED BY THE RESIDENT ENGINEER.



NOTE:

COST OF CONSTRUCTING, PLACING, MAINTAINING AND REMOVING CROSSES WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THE CROSSES WILL BE YELLOW IN COLOR AND SHALL BE MADE OF A SUITABLE MATERIAL AS APPROVED BY THE AIRPORT MANAGER. THE CROSSES WILL BE PLACED OVER THE NUMERALS AND SECURED IN A MANNER APPROVED BY THE MANAGER. THE PROPOSED CROSSES WILL BE PLACED EACH DAY THE RUNWAY IS CLOSED AND REMOVED WHEN THE RUNWAY IS RE-OPENED. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PLACEMENT AND REMOVAL OF THE CROSSES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

J.U.L.I.E. INFORMATION

COUNTY: WILL
 CITY: JOLIET
 TOWNSHIP: TROY
 SECTION NO.: 14 & 15
 ADDRESS: JOLIET REGIONAL AIRPORT
 3000 WEST JEFFERSON STREET
 JOLIET, ILLINOIS 60435

CRITICAL POINT DATA

LATITUDE: 41° 31' 04.21"
 LONGITUDE: 88° 10' 33.36"
 ELEVATION: 579.86 M.S.L.

UTILITY NOTE

THE LOCATION, SIZE, AND TYPE OF MATERIAL OF EXISTING UNDERGROUND AND/OR ABOVEGROUND UTILITIES INDICATED ON THE PLANS ARE NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATEVER IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE OWNER'S REPRESENTATIVE AND/OR THE RESIDENT ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY DAMAGE TO SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. ALL UTILITY CABLES AND LINES SHALL BE LOCATED BY THE RESPECTIVE UTILITY. CONTACT JULIE (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS) FOR UTILITY INFORMATION, PHONE: 1-800-892-0123. CONTACT THE FAA (FEDERAL AVIATION ADMINISTRATION) FOR ASSISTANCE IN LOCATING FAA CABLES AND UTILITIES. LOCATION OF FAA POWER, CONTROL, AND COMMUNICATION CABLES SHALL BE COORDINATED WITH AND/OR LOCATED BY THE FAA. ALSO CONTACT AIRPORT DIRECTOR/MANAGER AND AIRPORT PERSONNEL FOR ASSISTANCE IN LOCATING UNDERGROUND AIRPORT CABLES AND/OR UTILITIES. ALSO COORDINATE WORK WITH ALL ABOVEGROUND UTILITIES.

150-ENGINEER'S FIELD OFFICE NOTES

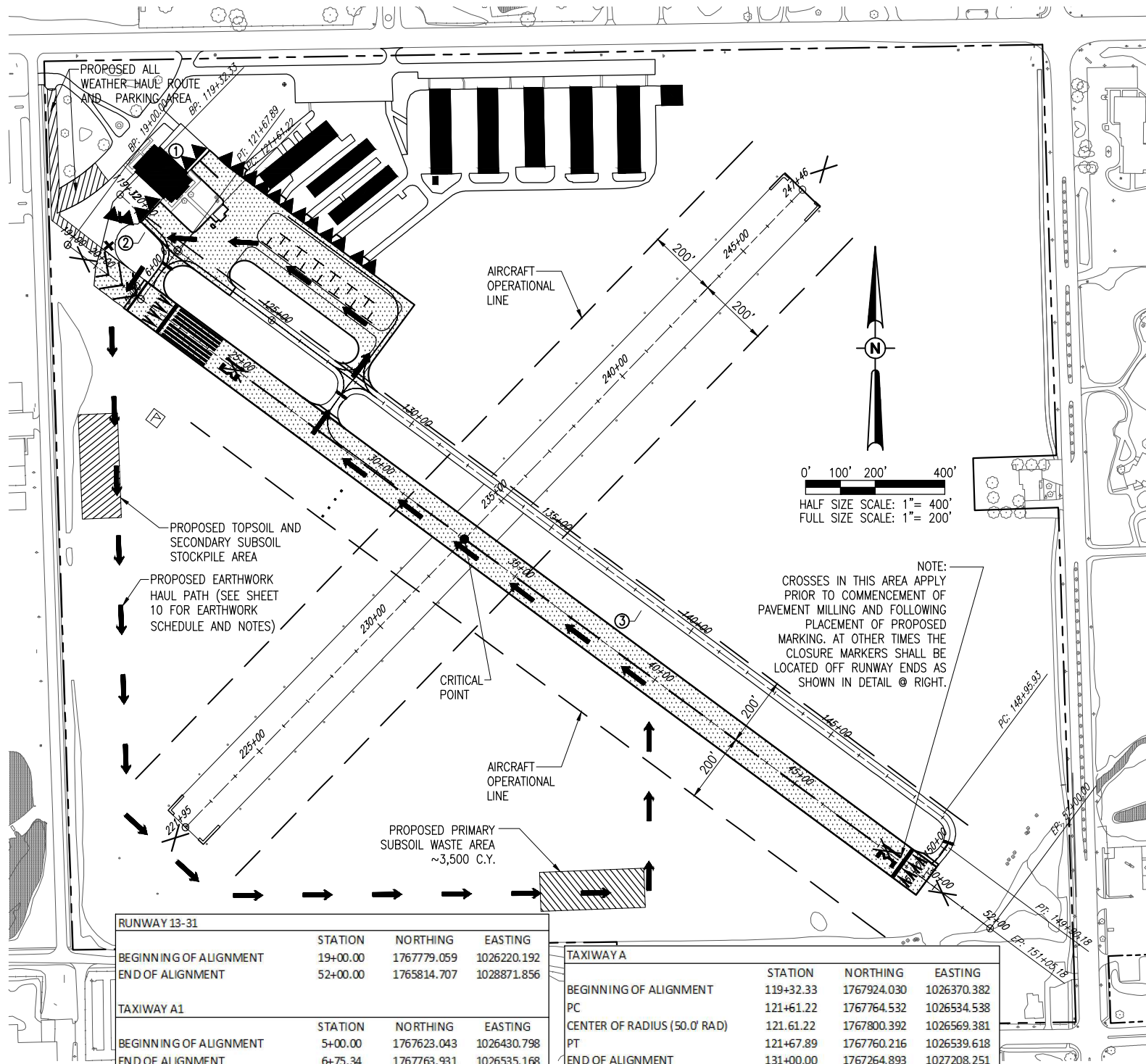
THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE FURNISHED, MAINTAINED, AND REMOVED IN ACCORDANCE WITH ITEM AR150510 "ENGINEER'S FIELD OFFICE" AS STATED ON PAGE 49 OF THE ILLINOIS STANDARD SPECIFICATIONS FO CONSTRUCTION OF AIRPORTS, ADOPTED NOVEMBER 2, 2009.

THE LOCATION OF THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE DETERMINED AT THE PRE-CONSTRUCTION MEETING.

THE ENGINEERING FIRM WILL MAKE PAYMENT FOR ALL LONG DISTANCE TELEPHONE CALLS IN EXCESS OF ONE HUNDRED DOLLARS (\$100.00) PER MONTH.

ADDITIONALLY, THE CONTRACTOR WILL FURNISH A CELL PHONE TO THE RESIDENT ENGINEER FOR HIS EXCLUSIVE USE FOR THE DURATION OF THIS PROJECT. THE RESIDENT ENGINEER WILL USE THIS PHONE FOR PROJECT BUSINESS ONLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CHARGES ASSOCIATED WITH THIS CELL PHONE.

THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE PAID FOR UNDER ITEMS: AR150510 ENGINEER'S FIELD OFFICE ____ 1 L.S.



RUNWAY 13-31			
	STATION	NORTHING	EASTING
BEGINNING OF ALIGNMENT	19+00.00	1767779.059	1026220.192
END OF ALIGNMENT	52+00.00	1765814.707	1028871.856

TAXIWAY A			
	STATION	NORTHING	EASTING
BEGINNING OF ALIGNMENT	119+32.33	1767924.030	1026370.382
PC	121+61.22	1767764.532	1026534.538
CENTER OF RADIUS (50.0' RAD)	121.61.22	1767800.392	1026569.381
PT	121+67.89	1767760.216	1026539.618
END OF ALIGNMENT	131+00.00	1767264.893	1027208.251

MAY 14, 2012 12:02 PM SCHMEIDT296
 I:\AIRPORTS\JOLIET\09A0152\CADD\AIRPORT\SHEET\R-003SEF.DWG - CONTROL, ALIGN & SAFETY PLAN

JO021

BY: _____
 REVISION: _____
 DATE: _____

Hanson Professional Services Inc.
 1526 South Sixth Street
 Springfield, IL 62766
 Offices Nationwide

REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

PROJECT CONTROL, ALIGNMENT & SAFETY PLAN

JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS

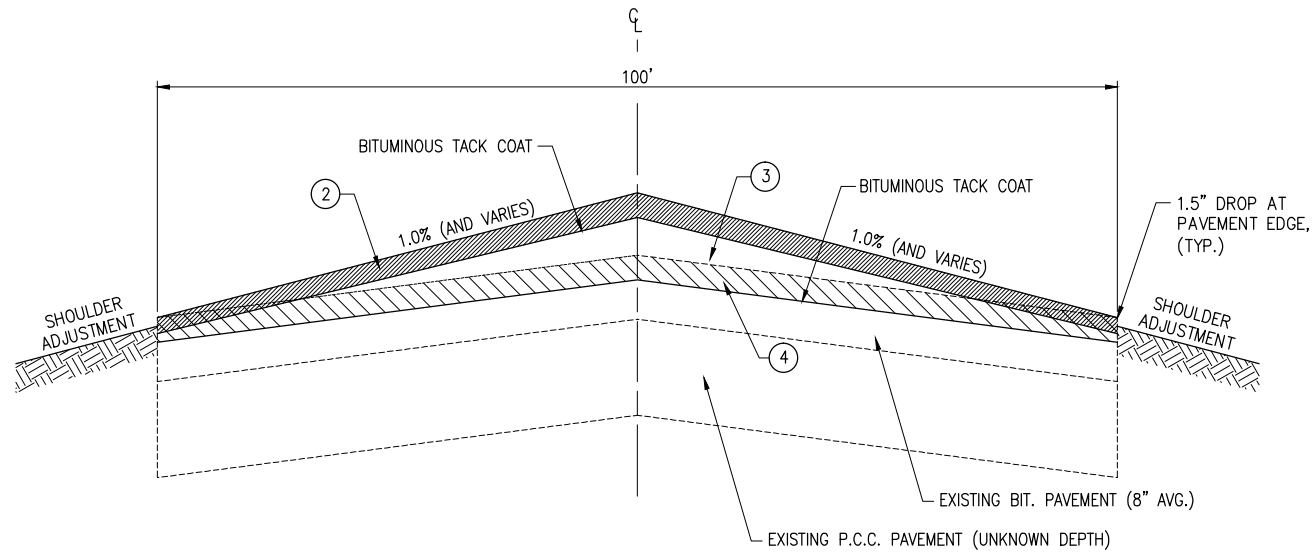
A.I.P. PROJ.: 3-17-0056-B6
 I.L. PROJ.: JOT-4043

Hanson Project No. 09A0152D_0001
 Filename: R-003SEF.DWG
 Scale: 1" = 200'
 Date: 5/14/12

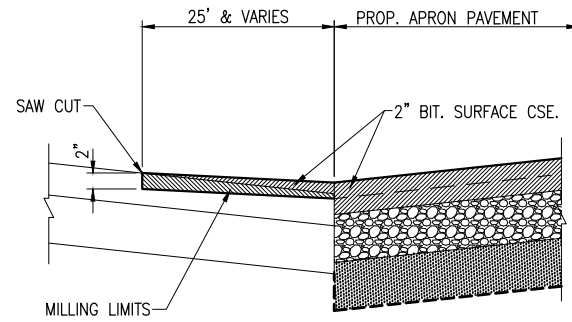
LAYOUT	KBS	04/19/12
DRAWN	BAK	04/19/12
REVIEWED	RAW	4/20/12

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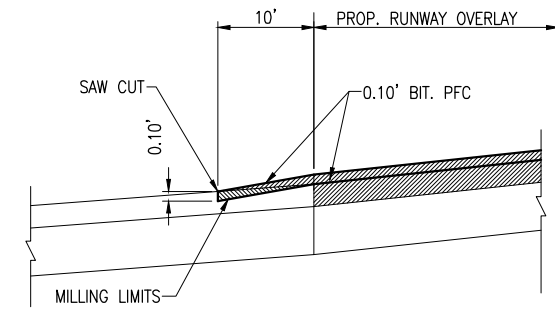
3 of 44 sheets



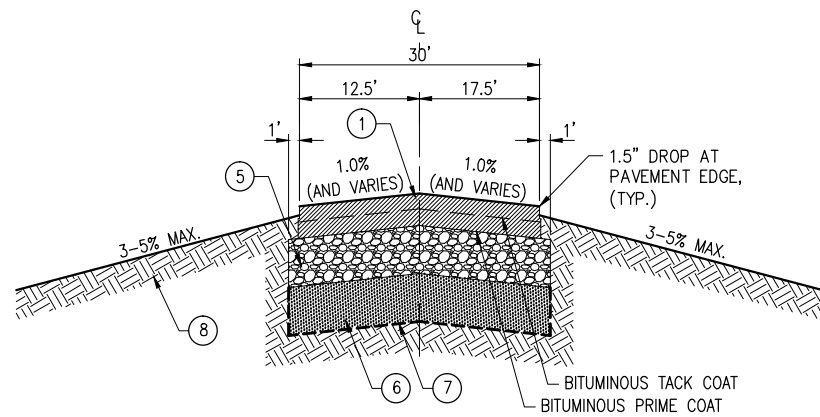
RUNWAY TYPICAL SECTION "A-A"
"NOT TO SCALE"



PROPOSED 2" BUTT JOINT DETAIL - APRON



PROPOSED 0.10' BUTT JOINT DETAIL - RUNWAY



TAXIWAY A1 TYPICAL SECTION "B-B"

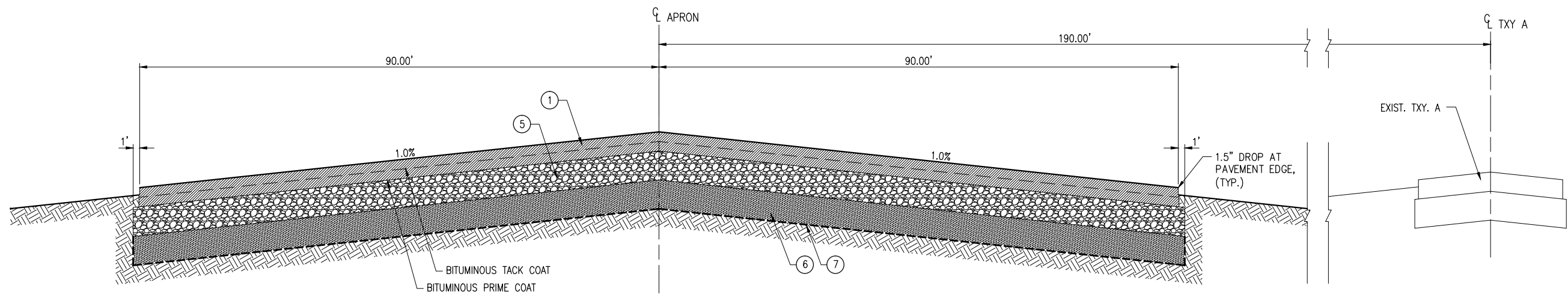
LEGEND FOR TYPICAL SECTION

- ① PROPOSED AR401613: BIT. SURFACE COURSE 2"
- ② PROPOSED AR403613: BIT. BASE COURSE 2"
- ③ PROPOSED AR401620: BITUMINOUS SURFACE COURSE - LEVELING (TAPERED THICKNESS, 1.5" AVG. DEPTH)
- ④ PROPOSED AR401650: BITUMINOUS PAVEMENT MILLING (2" NOMINAL DEPTH)
- ⑤ PROPOSED AR209606 AGGREGATE BASE COURSE 6"
- ⑥ PROPOSED AR800589: COMPACTED ASPHALT MILLING SUBBASE 6"
- ⑦ PROPOSED AR156513: SEPARATION FABRIC
- ⑧ EXISTING GROUND

NOTES

- 1. TACK COAT TO BE PLACED BETWEEN LIFTS OF BASE COURSE.
- 2. BITUMINOUS PAVEMENT SAWING, IF REQUIRED, INCIDENTAL TO REMOVE AND REPLACE BITUMINOUS PAVEMENT.

REMOVE AND REPLACE BITUMINOUS PAVEMENT



APRON TYPICAL SECTION "C-C"

REVISION	DATE	BY

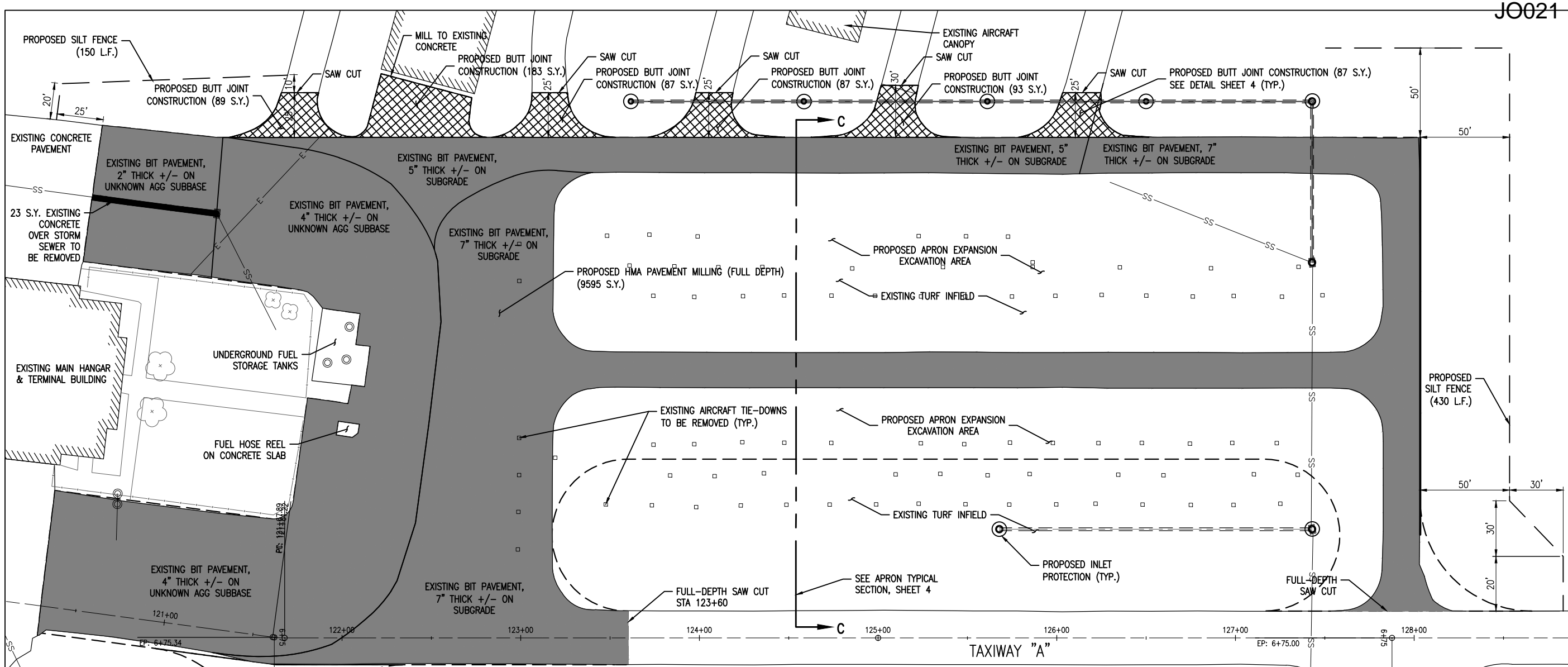
JOLIET REGIONAL AIRPORT
JOLIET PARK DISTRICT
JOLIET, ILLINOIS

IL. PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

Hanson Project No. 09A0152D_0001	LAYOUT	KBS	04/16/12
Filename: R-3011TYP.DWG	DRAWN	LDH	04/16/12
Scale: NOT TO SCALE	REVIEWED	RAW	4/20/12
Date: 5/14/12			

REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

TYPICAL SECTIONS

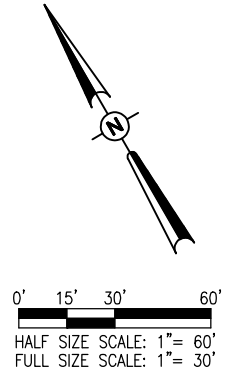


SITE PREPARATION NOTES

- EXISTING BITUMINOUS PAVEMENT THICKNESSES AND LOCATIONS ARE BASED ON CORE SAMPLES AND RECORD DRAWINGS AND ARE BELIEVED TO BE ACCURATE BUT NOT WARRANTED.
- ALL EXISTING AIRCRAFT TIE-DOWNS IN THE CONSTRUCTION AREA ARE TO BE REMOVED. REMOVAL SHALL BE CONSIDERED INCIDENTAL TO THE PAVEMENT REMOVAL AND EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL SAW CUTS SHALL BE CONSIDERED INCIDENTAL TO THE ASSOCIATED PAVEMENT REMOVAL, PAVEMENT MILLING, OR BUTT JOINT CONSTRUCTION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THE CONTRACTOR MAY, AT THE AIRPORT REPRESENTATIVE'S DISCRETION, USE A MILLING MACHINE TO MAKE PAVEMENT JOINTS, PROVIDED A STRAIGHT LINE CAN BE MAINTAINED AND THE ADJACENT PAVEMENT IS NOT DAMAGED.
- CLEAN AND SEAL CRACKS SHALL BE PERFORMED AFTER THE MILLING IS COMPLETE AT LOCATIONS DETERMINED BY THE RESIDENT ENGINEER. THE EXISTING CRACKS WERE SURVEYED TO DETERMINE THE QUANTITY FOR THIS CONTRACT.

LEGEND

	EXISTING PAVEMENT
	PROPOSED HMA PAVEMENT MILLING (FULL-DEPTH)
	PROPOSED PCC PAVEMENT REMOVAL
	PROPOSED BUTT JOINT CONSTRUCTION
	PROPOSED SILT FENCE
	PROPOSED INLET PROTECTION
	EXISTING RUNWAY/TAXIWAY/THRESHOLD LIGHTS (T.B.R. BY OTHERS ON CONCURRENT PROJECT)
	EXISTING AIRFIELD LIGHTING ELECTRICAL CABLE (TO BE ABANDONED WITH CONCURRENT PROJECT)
	PROPOSED RUNWAY/TAXIWAY/THRESHOLD LIGHTS (T.B.R. BY OTHERS ON CONCURRENT PROJECT)
	EXISTING STORM INLET/MANHOLE
	EXISTING STORM SEWER
	EXISTING AIRCRAFT TIE-DOWN (TO BE REMOVED)

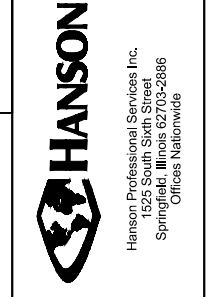


REVISION	DATE	BY

**JOLIET REGIONAL AIRPORT
JOLIET PARK DISTRICT
JOLIET, ILLINOIS**

IL PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

Hanson Project No. 09A0152D_0001	FILENAME: R-111PRP.DWG	DATE: 5/14/12
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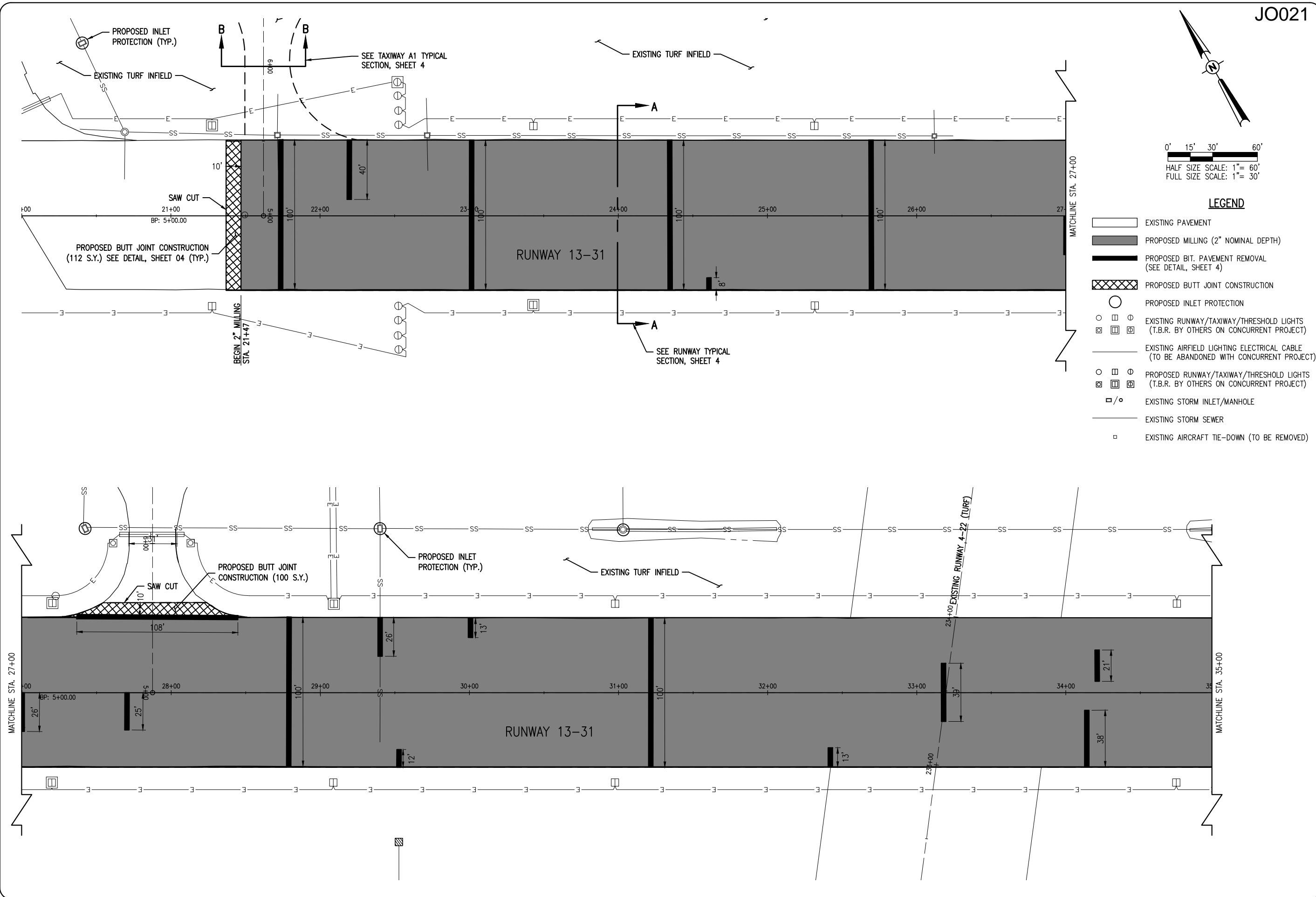


REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

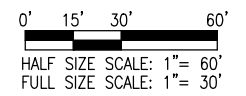
APRON SITE PREPARATION AND EROSION CONTROL PLAN

MAY 14, 2012 12:03 PM SCHMEIDT296 I:\AIRPORTS\JOLIET\09A0152\CADD\AIRPORT\SHEET\R-111PRP.DWG - APRON SITE PREP & EROSION CONTROL

MAY 14, 2012 12:03 PM SCHW01296
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LEGEND

- EXISTING PAVEMENT
- PROPOSED MILLING (2" NOMINAL DEPTH)
- PROPOSED BIT. PAVEMENT REMOVAL (SEE DETAIL, SHEET 4)
- PROPOSED BUTT JOINT CONSTRUCTION
- PROPOSED INLET PROTECTION
- EXISTING RUNWAY/TAXIWAY/THRESHOLD LIGHTS (T.B.R. BY OTHERS ON CONCURRENT PROJECT)
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- EXISTING STORM SEWER
- EXISTING AIRCRAFT TIE-DOWN (TO BE REMOVED)

DATE	REVISION	BY

**JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS**

IL. PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

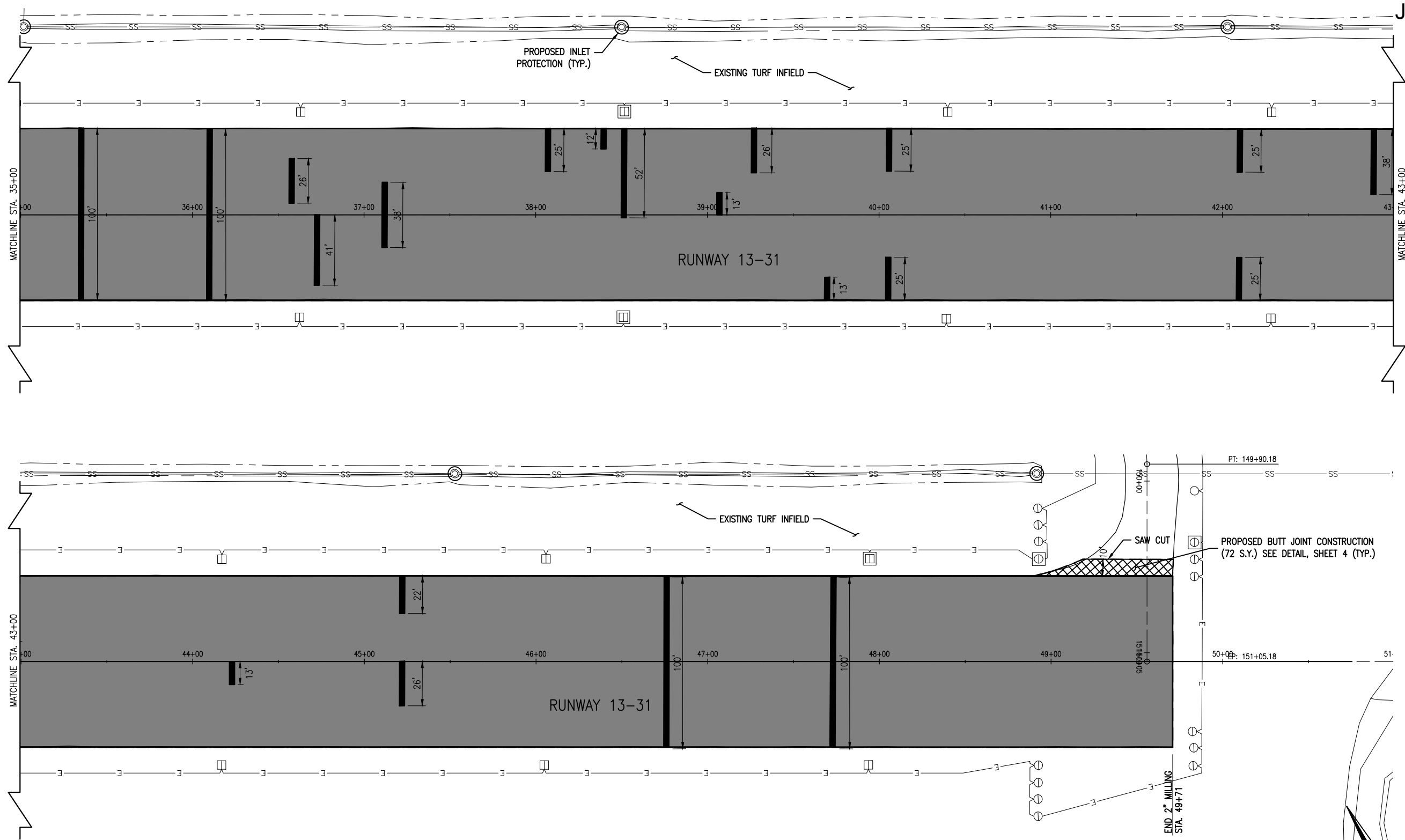
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Date: 5/14/12			



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REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1
 RUNWAY SITE PREP & EROSION CONTROL PLAN STA. 20+00 TO STA. 35+00

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PROPOSED INLET PROTECTION (TYP.)
 EXISTING TURF INFIELD

RUNWAY 13-31

EXISTING TURF INFIELD

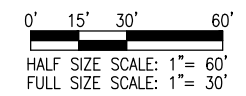
RUNWAY 13-31

PROPOSED BUTT JOINT CONSTRUCTION (72 S.Y.) SEE DETAIL, SHEET 4 (TYP.)

END 2" MILLING STA. 49+71

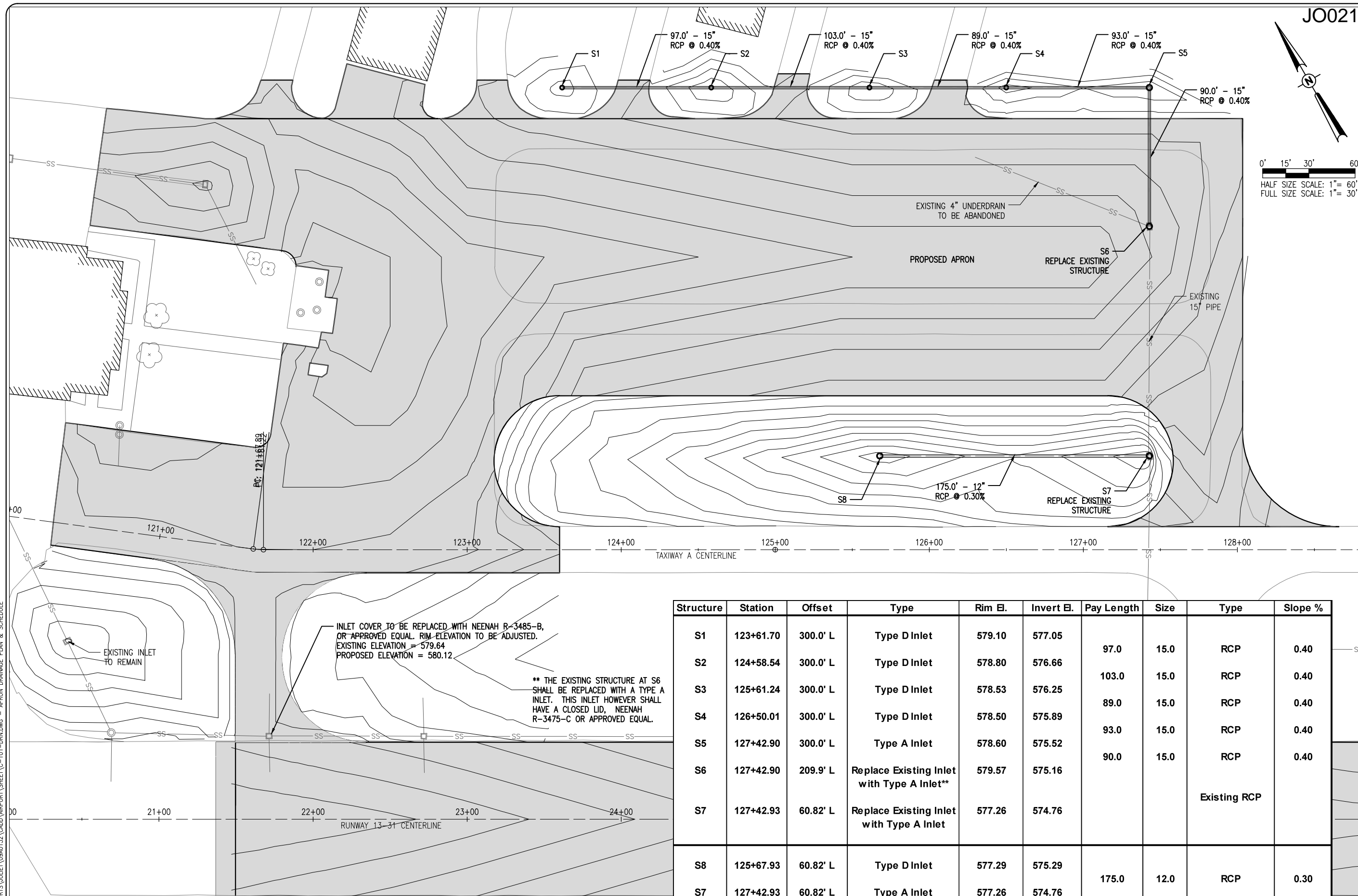
LEGEND

- EXISTING PAVEMENT
- PROPOSED MILLING (2" NOMINAL DEPTH)
- PROPOSED BIT. PAVEMENT REMOVAL (SEE DETAIL, SHEET 4)
- PROPOSED BUTT JOINT CONSTRUCTION
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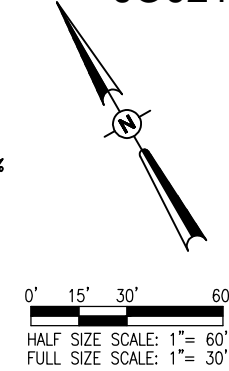


BY		DATE		REVISION										
<p>JOLIET REGIONAL AIRPORT JOLIET PARK DISTRICT JOLIET, ILLINOIS</p> <p>IL. PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6</p>														
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LAYOUT	KBS	04/16/12												
DRAWN	BAK	04/16/12												
REVIEWED	RAW	4/20/12												
<p>Hanson Professional Services Inc. 1526 South Sixth Street Springfield, IL 62761 Offices Nationwide</p>														
<p>REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1</p>			<p>RUNWAY SITE PREP & EROSION CONTROL PLAN STA. 35+00 TO STA. 50+00</p>											
<p style="font-size: 2em; font-weight: bold;">7</p> <p>7 of 44 sheets</p>														

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JOLIET REGIONAL AIRPORT
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 JOLIET, ILLINOIS

IL. PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

Hanson Project No. 09A0152D_0001	
Filename: C-101-DRNDWG	
Scale: 1" = 30'	
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REVIEWED: RAW	4/20/12



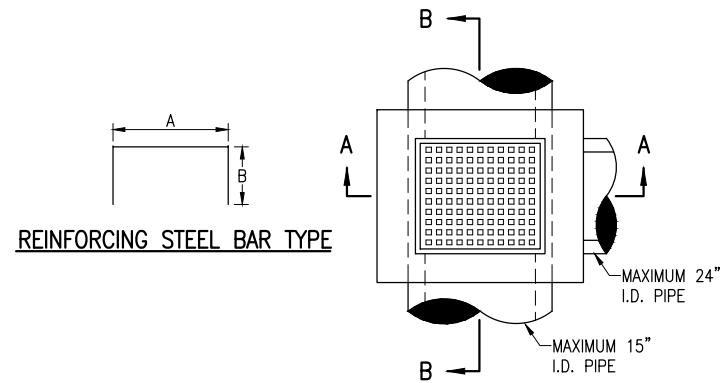
REHAB RUNWAY 13-31, REPLACE
 APRON, CONSTRUCT TAXIWAY A1

APRON DRAINAGE PLAN
 & SCHEDULE

Structure	Station	Offset	Type	Rim El.	Invert El.	Pay Length	Size	Type	Slope %
S1	123+61.70	300.0' L	Type D Inlet	579.10	577.05	97.0	15.0	RCP	0.40
S2	124+58.54	300.0' L	Type D Inlet	578.80	576.66	103.0	15.0	RCP	0.40
S3	125+61.24	300.0' L	Type D Inlet	578.53	576.25	89.0	15.0	RCP	0.40
S4	126+50.01	300.0' L	Type D Inlet	578.50	575.89	93.0	15.0	RCP	0.40
S5	127+42.90	300.0' L	Type A Inlet	578.60	575.52	90.0	15.0	RCP	0.40
S6	127+42.90	209.9' L	Replace Existing Inlet with Type A Inlet**	579.57	575.16			Existing RCP	
S7	127+42.93	60.82' L	Replace Existing Inlet with Type A Inlet	577.26	574.76				
S8	125+67.93	60.82' L	Type D Inlet	577.29	575.29	175.0	12.0	RCP	0.30
S7	127+42.93	60.82' L	Type A Inlet	577.26	574.76				

INLET COVER TO BE REPLACED WITH NEENAH R-3485-B, OR APPROVED EQUAL. RIM ELEVATION TO BE ADJUSTED. EXISTING ELEVATION = 579.64. PROPOSED ELEVATION = 580.12.

** THE EXISTING STRUCTURE AT S6 SHALL BE REPLACED WITH A TYPE A INLET. THIS INLET HOWEVER SHALL HAVE A CLOSED LID, NEENAH R-3475-C OR APPROVED EQUAL.



REINFORCING BARS SCHEDULE					
TYPE	QUANTITY PER INLET	DIMENSIONS		SIZE	APPROX. WT. OF BARS IN INLET
		A	B		
A	2	3'-4"	2'-4"	#5	16.7

INLET NOTES

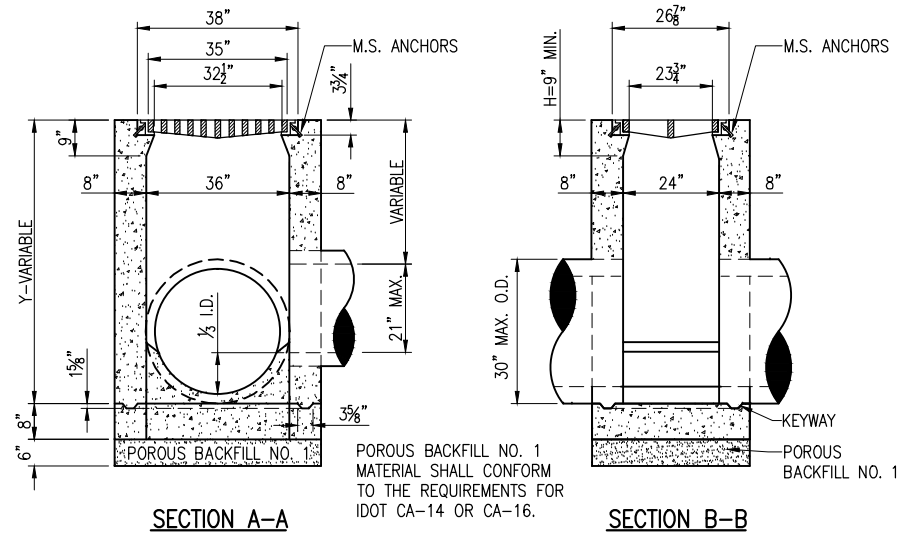
INLET TO BE CONSTRUCTED OF STRUCTURAL P.C. CONCRETE. THE CONTRACT UNIT PRICE PER INLET SHALL INCLUDE THE FRAME, GRATE AND STEPS IN PLACE AND COMPLETE PER UNIT.

1/2" CHAMFER TO BE USED ON ALL EXPOSED CORNERS OF INLETS. BARS TO BE INSTALLED 2" FROM FACE OF WALLS.

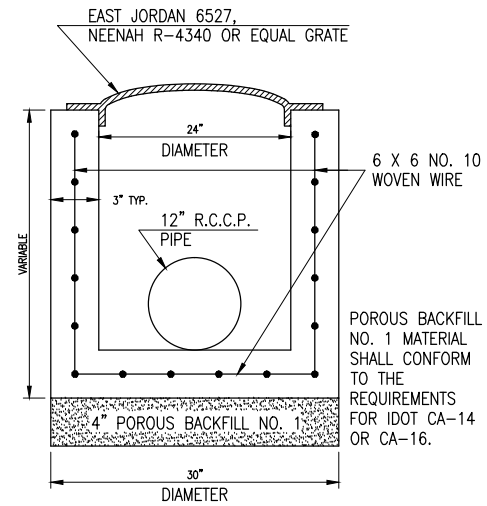
THE FRAME AND GRATE SHALL BE NEENAH R-3475-A, DEETER 2425-E.

"H" SHALL BE EQUAL TO THE PROPOSED PAVEMENT THICKNESS AND NOT LESS THAN THE ATTACHED MINIMUMS. TYPE A _____ 9" MINIMUM.

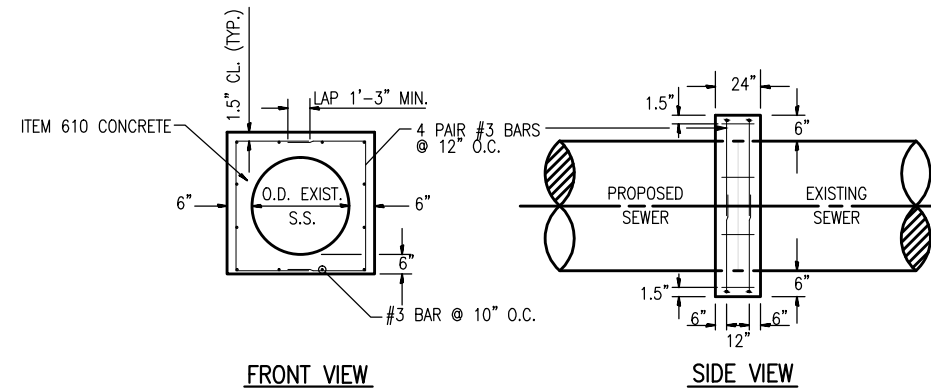
INLET STEPS SHALL BE NEENAH R-1980-1. 12" TO 15" C.C. STEPS TO BE INSTALLED WHEN Y IS GREATER THAN 5' COST. THE COST OF THE STEPS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EACH INLET.



TYPE A INLET



TYPE D INLET
IDOT STANDARD 1538-6



CONNECTION NOTES:

PIPE CONNECTION DETAIL, IF REQUIRED FOR CONSTRUCTION.

ALL WORK AND MATERIAL REQUIRED FOR CONNECTION TO EXISTING STORM SEWER OR STRUCTURES SHALL BE INCIDENTAL.

CONCRETE COLLAR FOR SEWER CONNECTION

DATE	REVISION	BY

**JOLIET REGIONAL AIRPORT
JOLIET PARK DISTRICT
JOLIET, ILLINOIS**

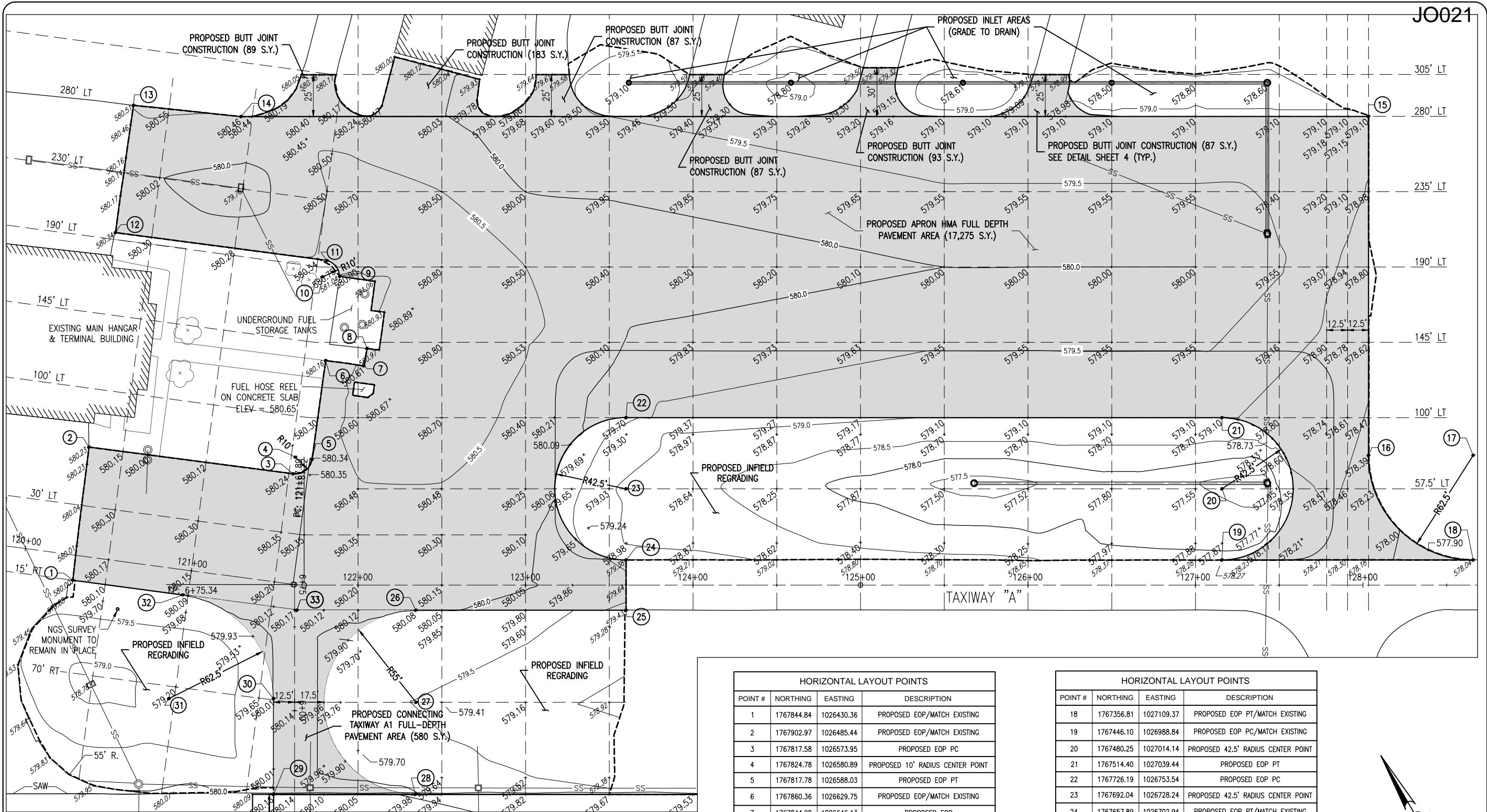
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Hanson Project No. 09A0152D_0001	
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Date: 5/14/12	
LAYOUT: KBS	04/19/12
DRAWN: KBS	04/19/12
REVIEWED: RAW	4/20/12



REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

DRAINAGE AND EROSION CONTROL DETAILS



EARTHWORK SUMMARY FOR PROPOSED APRON & TAXIWAY A1 (CU YD)

CUT	TOPSOIL (5" AVERAGE DEPTH)	1,743
	SUBSOIL OR SUBBASE	4,357
	TOTAL UNCLASSIFIED EXCAVATION	6,100
FILL	STRUCTURAL	166
	SHRINKAGE ADJ. (10%)	183
	TOPSOIL	991
	TOTAL FILL	1,174

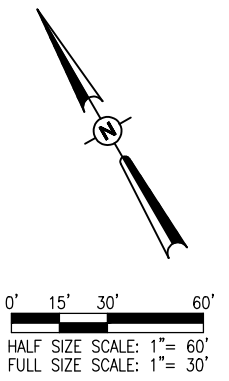
- EARTHWORK NOTES**
- EXCESS TOPSOIL SHALL BE USED ONSITE AS PART OF SHOULDER ADJUSTMENT OR STOCKPILED AS DIRECTED BY RESIDENT ENGINEER. COST OF PLACING OR STOCKPILED EXCESS TOPSOIL IS INCIDENTAL TO SHOULDER ADJUSTMENT AND UNCLASSIFIED EXCAVATION PAY ITEMS.
 - EXCESS SUITABLE SUBSOIL AND SUBBASE MATERIAL SHALL BE PLACED OR STOCKPILED AS NOTED ON PLANS OR AS DIRECTED BY RESIDENT ENGINEER. ALL UNSUITABLE SUBSOIL AND SUBBASE MATERIAL SHALL BE DISPOSED OF OFFSITE. COST OF PLACEMENT, STOCKPILED, OR DISPOSAL IS INCIDENTAL TO UNCLASSIFIED EXCAVATION PAY ITEM.
 - UPON COMPLETION OF EARTHWORK, THE EARTHWORK HAUL PATH, AS SHOWN ON SHEET 3, SHALL BE RESTORED TO ITS ORIGINAL CONDITION. THE COST OF RESTORATION SHALL BE CONSIDERED INCIDENTAL TO UNCLASSIFIED EXCAVATION PAY ITEM AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

HORIZONTAL LAYOUT POINTS

POINT #	NORTHING	EASTING	DESCRIPTION
1	1767844.84	1026430.36	PROPOSED EOP/MATCH EXISTING
2	1767902.97	1026485.44	PROPOSED EOP/MATCH EXISTING
3	1767817.58	1026573.95	PROPOSED EOP PC
4	1767824.78	1026580.89	PROPOSED 10' RADIUS CENTER POINT
5	1767817.78	1026588.03	PROPOSED EOP PT
6	1767860.36	1026629.75	PROPOSED EOP/MATCH EXISTING
7	1767844.28	1026646.13	PROPOSED EOP
8	1767851.45	1026653.93	PROPOSED EOP/MATCH EXISTING
9	1767895.80	1026666.45	PROPOSED EOP/MATCH EXISTING
10	1767901.60	1026658.13	PROPOSED 10' RADIUS CENTER POINT
11	1767907.87	1026665.92	PROPOSED EOP PT
12	1767996.47	1026574.43	PROPOSED EOP/MATCH EXISTING
13	1768051.16	1026628.29	PROPOSED EOP/MATCH EXISTING
14	1768007.55	1026675.92	PROPOSED EOP
15	1767606.90	1027216.85	PROPOSED EOP
16	1767444.23	1027096.35	PROPOSED EOP PC
17	1767407.03	1027146.58	PROPOSED 62.5' RADIUS CENTER POINT

HORIZONTAL LAYOUT POINTS

POINT #	NORTHING	EASTING	DESCRIPTION
18	1767356.81	1027109.37	PROPOSED EOP PT/MATCH EXISTING
19	1767446.10	1026988.84	PROPOSED EOP PC/MATCH EXISTING
20	1767480.25	1027014.14	PROPOSED 42.5' RADIUS CENTER POINT
21	1767514.40	1027039.44	PROPOSED EOP PT
22	1767726.19	1026753.54	PROPOSED EOP PC
23	1767692.04	1026728.24	PROPOSED 42.5' RADIUS CENTER POINT
24	1767657.89	1026702.94	PROPOSED EOP PT/MATCH EXISTING
25	1767633.79	1026685.09	PROPOSED EOP/MATCH EXISTING
26	1767708.45	1026584.29	PROPOSED EOP PC
27	1767664.26	1026551.56	PROPOSED 55' RADIUS CENTER POINT
28	1767620.30	1026518.50	PROPOSED EOP PT/MATCH EXISTING
29	1767670.66	1026450.52	PROPOSED EOP/MATCH EXISTING
30	1767716.62	1026484.56	PROPOSED EOP PC
31	1767753.83	1026434.34	PROPOSED 62.5' RADIUS CENTER POINT
32	1767798.65	1026477.90	PROPOSED EOP PT
33	1767750.75	1026527.20	PROPOSED APRON EOP



BY	
REVISION	
DATE	

**JOLIET REGIONAL AIRPORT
JOLIET PARK DISTRICT
JOLIET, ILLINOIS**

IL PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

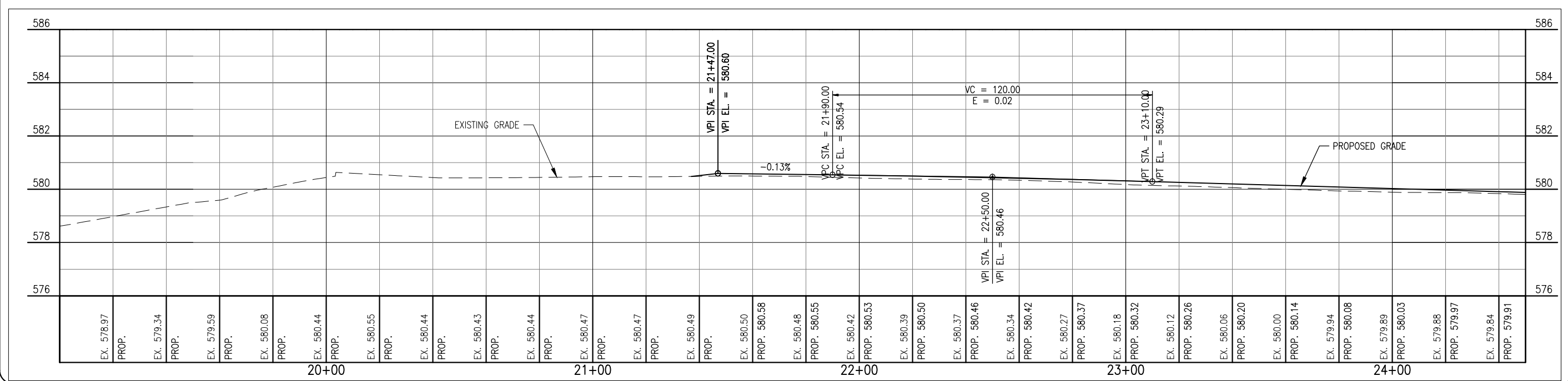
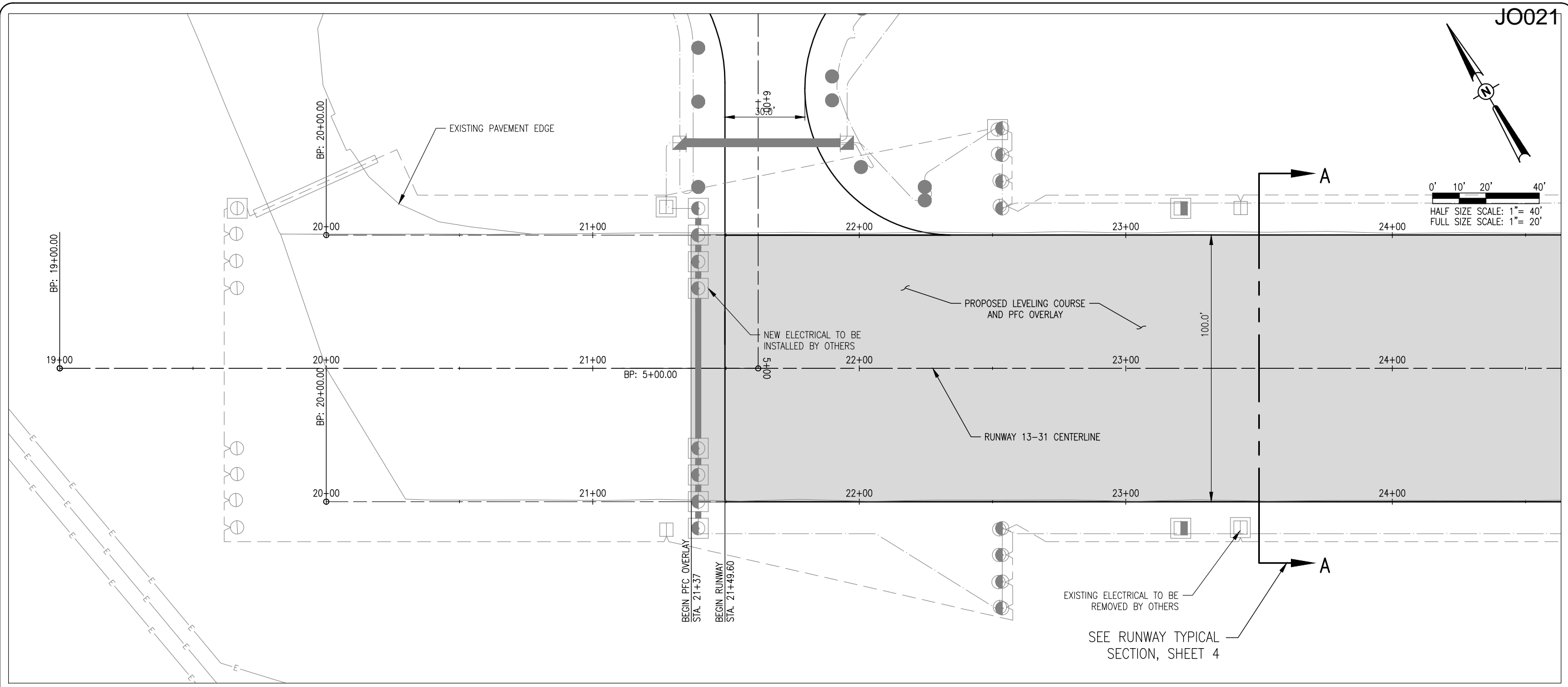
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DRAWN	KBS 04/20/12
REVIEWED	RAW 4/20/12



REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

APRON GRADING AND PAVING PLAN

MAY 14, 2012 12:04 PM SCHWED1296 I:\AIRPORTS\JOLIET\09A0152D\CADD\AIRPORT SHEET\R-121CON.DWG - APRON GRADING AND PAVING PLAN



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**JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS**

IL. PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

Hanson Project No.	09A0152D_0001
Filename	C-701-PNP.DWG
Scale	H, 1" = 20' V, 1" = 2'
Date	5/14/12

LAYOUT	KBS	04/19/12
DRAWN	KBS	04/19/12
REVIEWED	RAW	4/20/12

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 Hanson Professional Services Inc.
 1525 South Sixth Street
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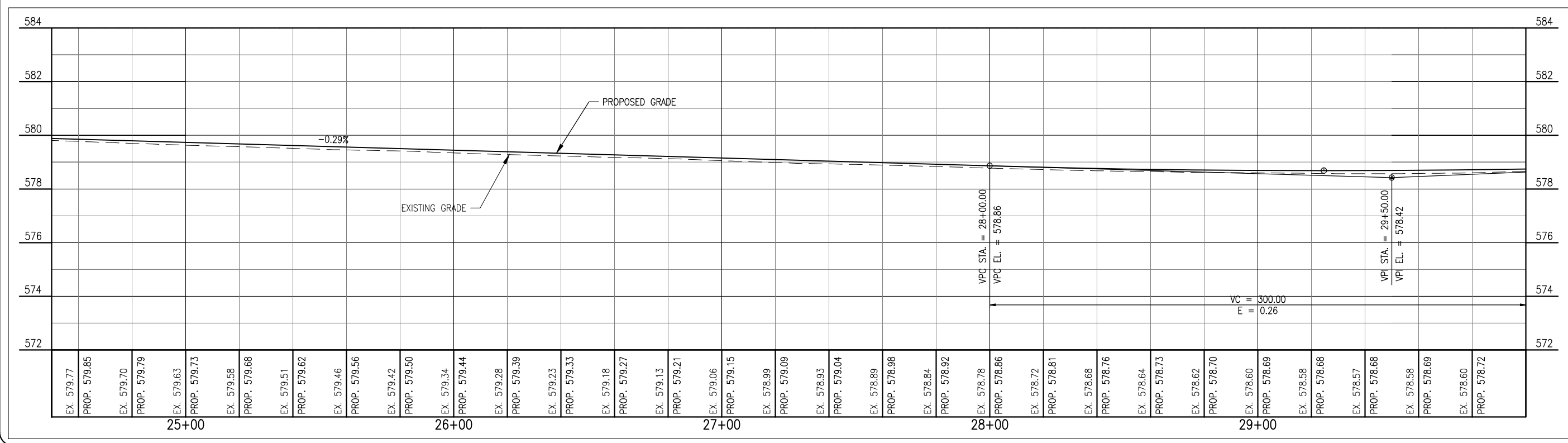
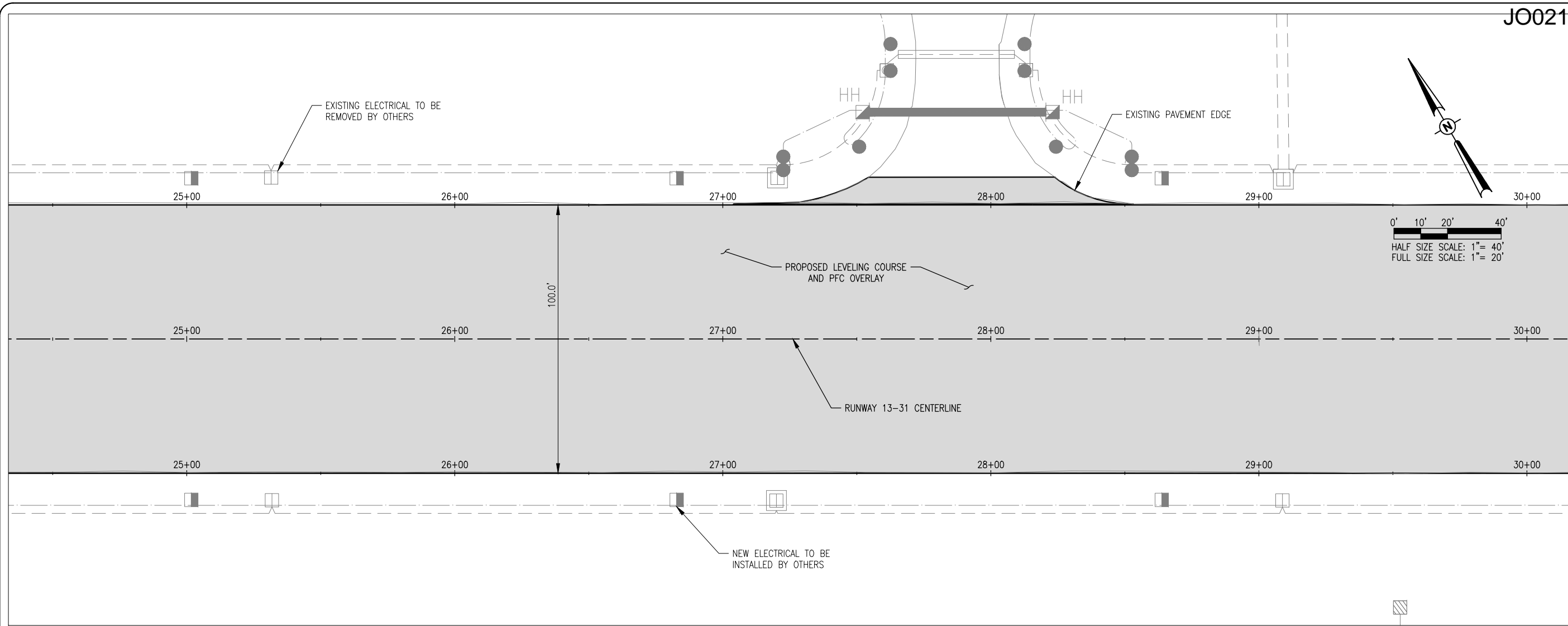
REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

RUNWAY 13-31 PLAN & PROFILE STA. 19+00 TO STA. 24+50

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11 of 44 sheets

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JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS

IL PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

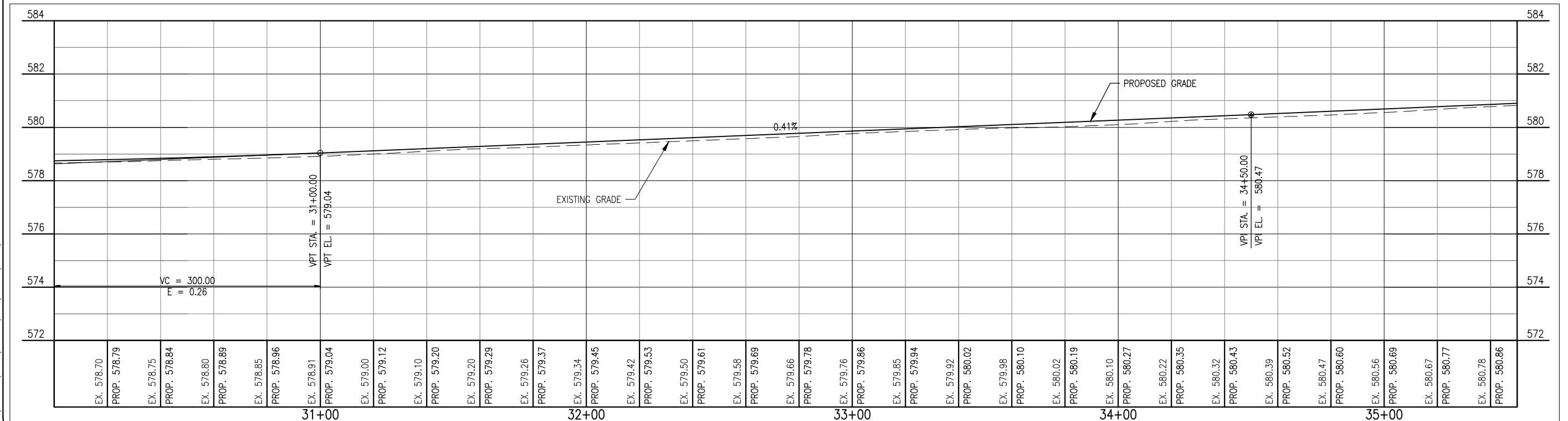
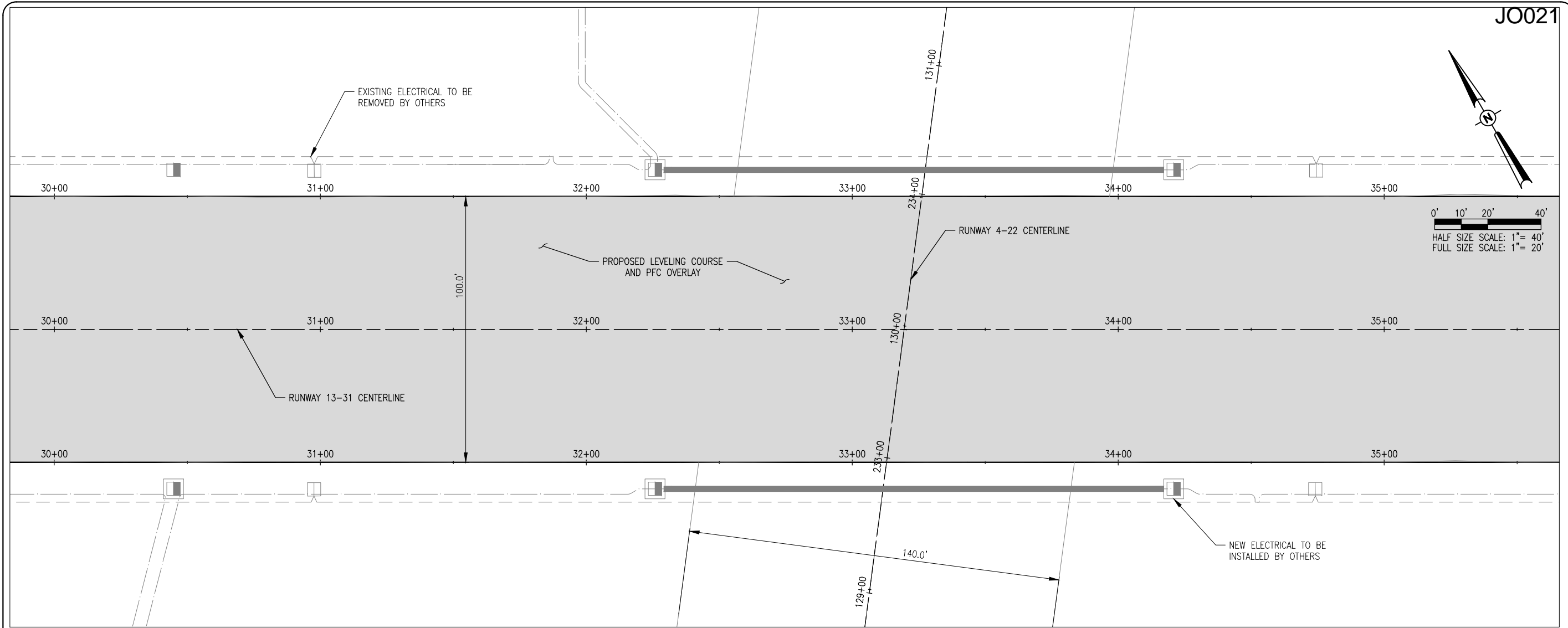
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LAYOUT	KBS	04/19/12	
DRAWN	KBS	04/19/12	
REVIEWED	RAW	4/20/12	



REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

RUNWAY 13-31 PLAN & PROFILE STA. 24+50 TO STA. 30+00

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JOLIET PARK DISTRICT
JOLIET, ILLINOIS

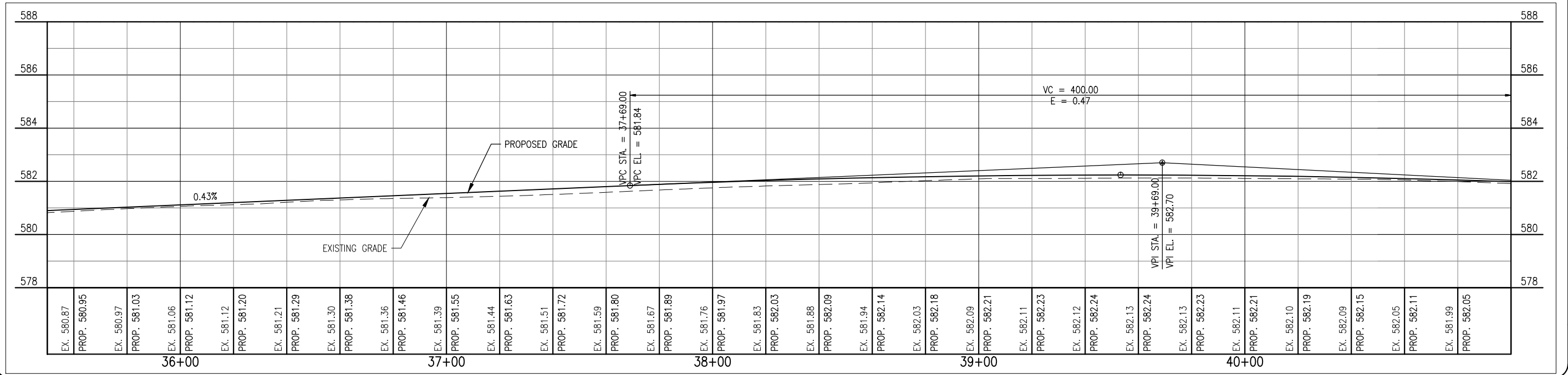
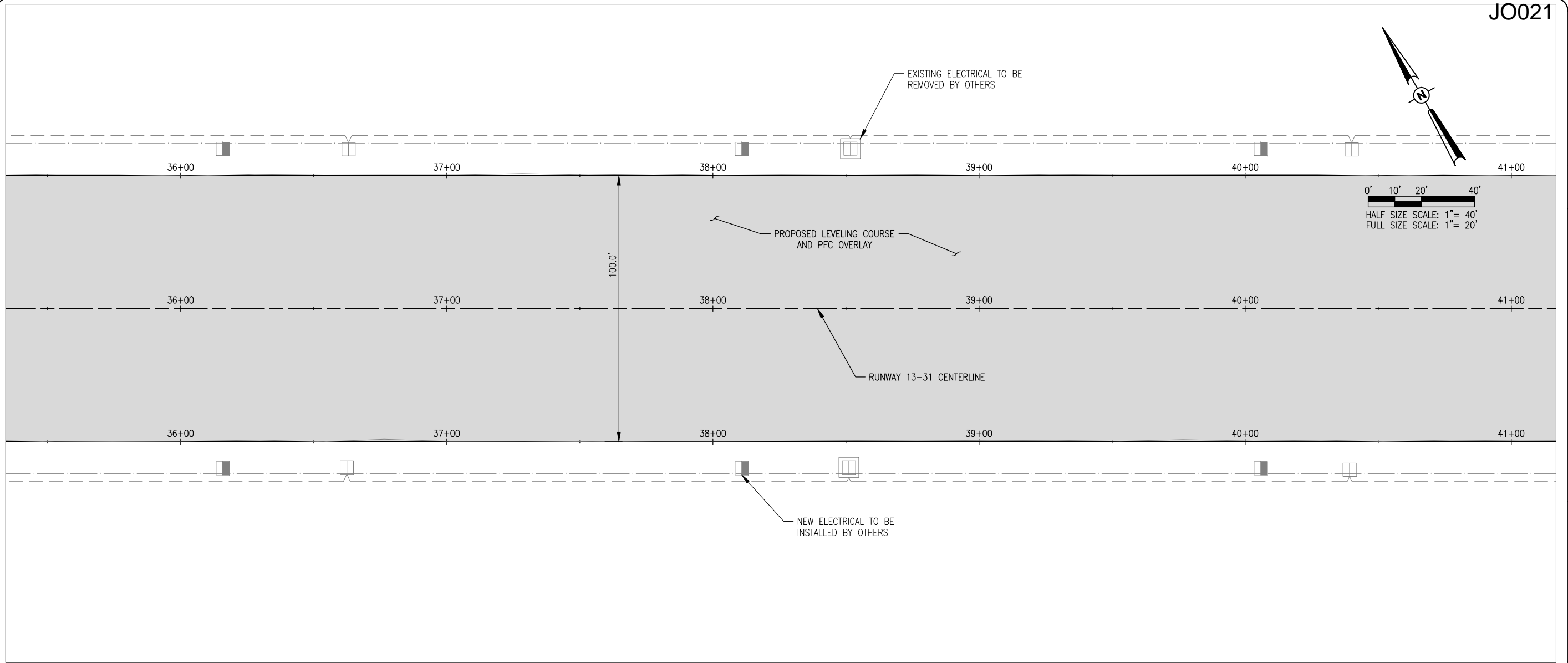
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REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

RUNWAY 13-31 PLAN & PROFILE STA. 30+00 TO STA. 35+50



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JOLIET REGIONAL AIRPORT
JOLIET PARK DISTRICT
JOLIET, ILLINOIS

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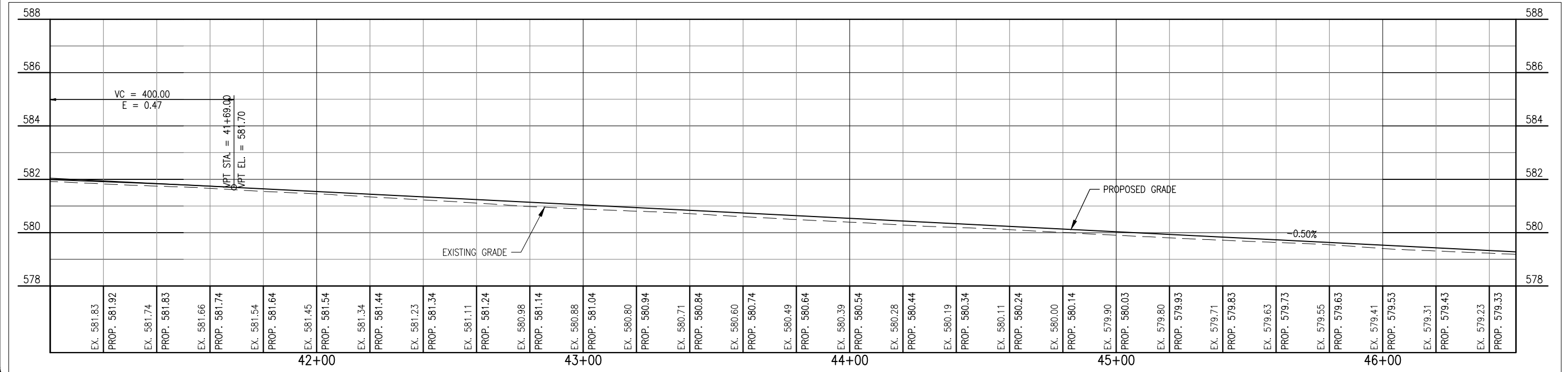
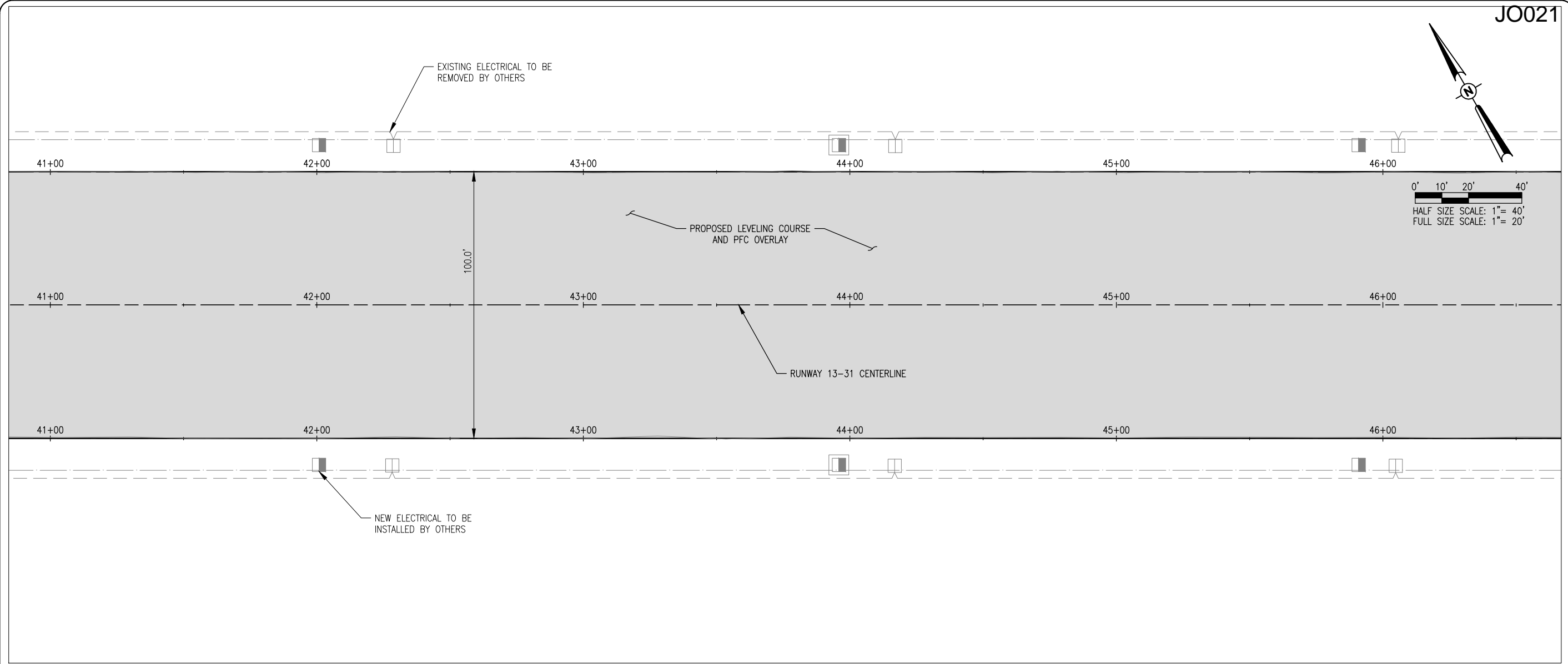
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Date: 5/14/12			



REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

RUNWAY 13-31 PLAN & PROFILE STA. 35+50 TO STA. 41+00

MAY 14, 2012 12:04 PM SCHME01296
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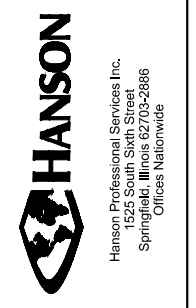
JO021

DATE	REVISION	BY

JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS

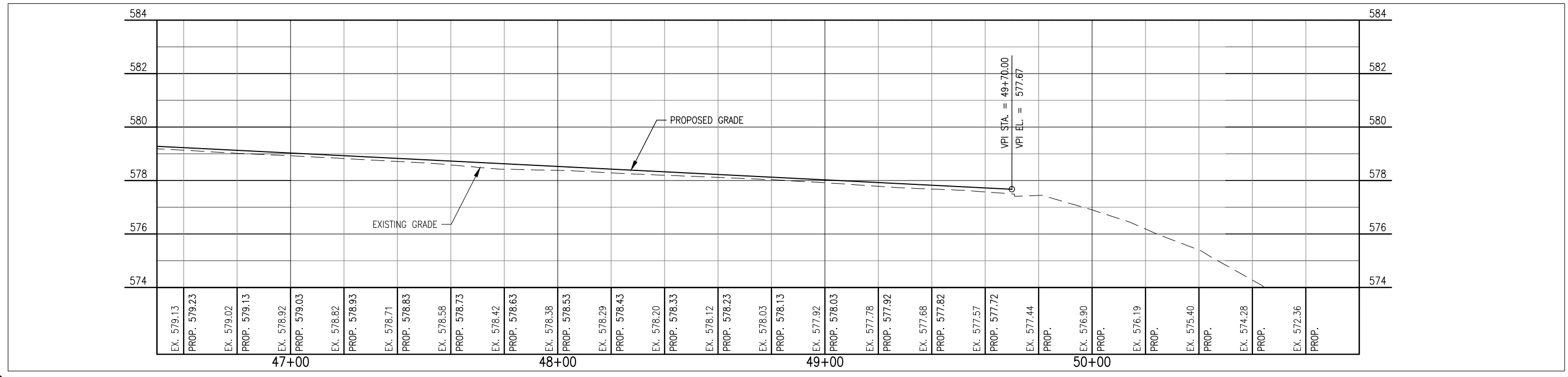
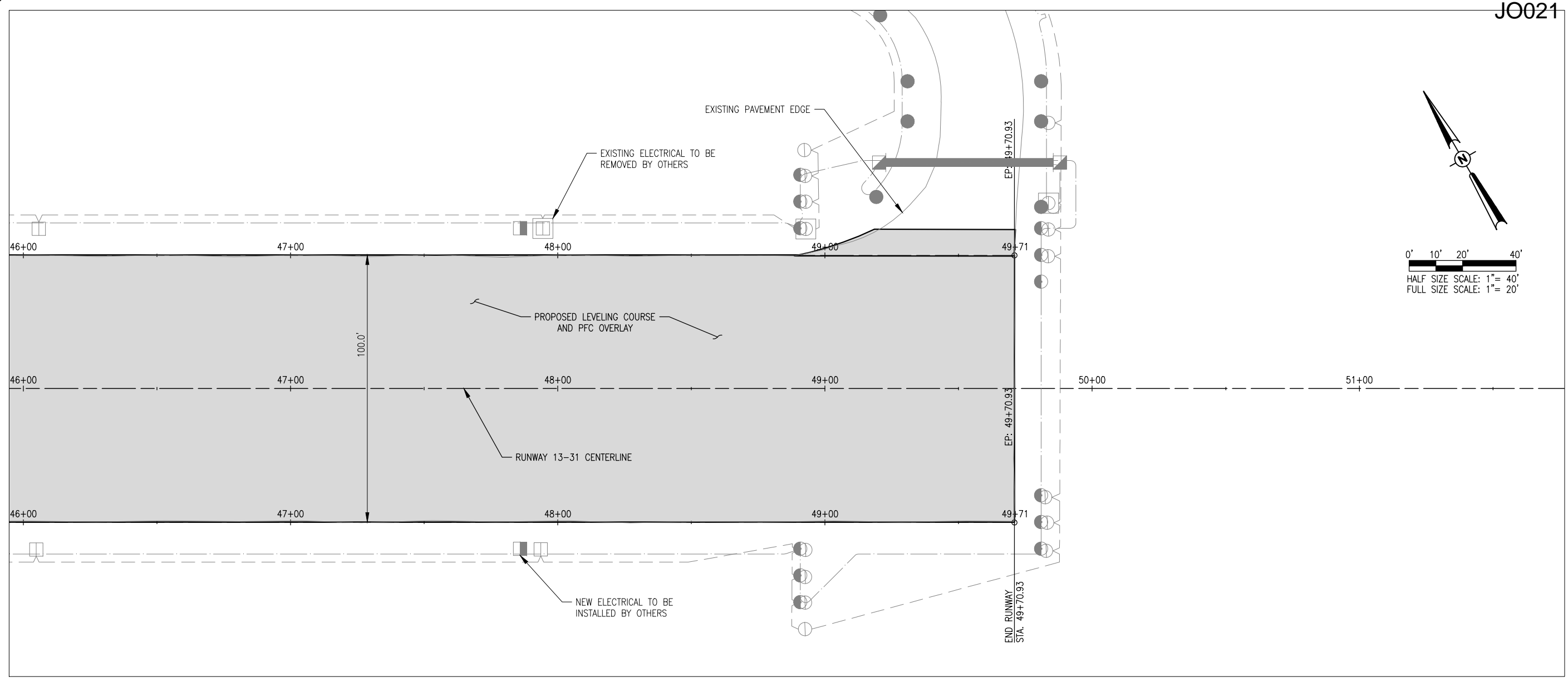
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REVIEWED	RAW	4/20/12	



REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

RUNWAY 13-31 PLAN & PROFILE STA. 41+00 TO STA. 46+50



DATE	REVISION	BY

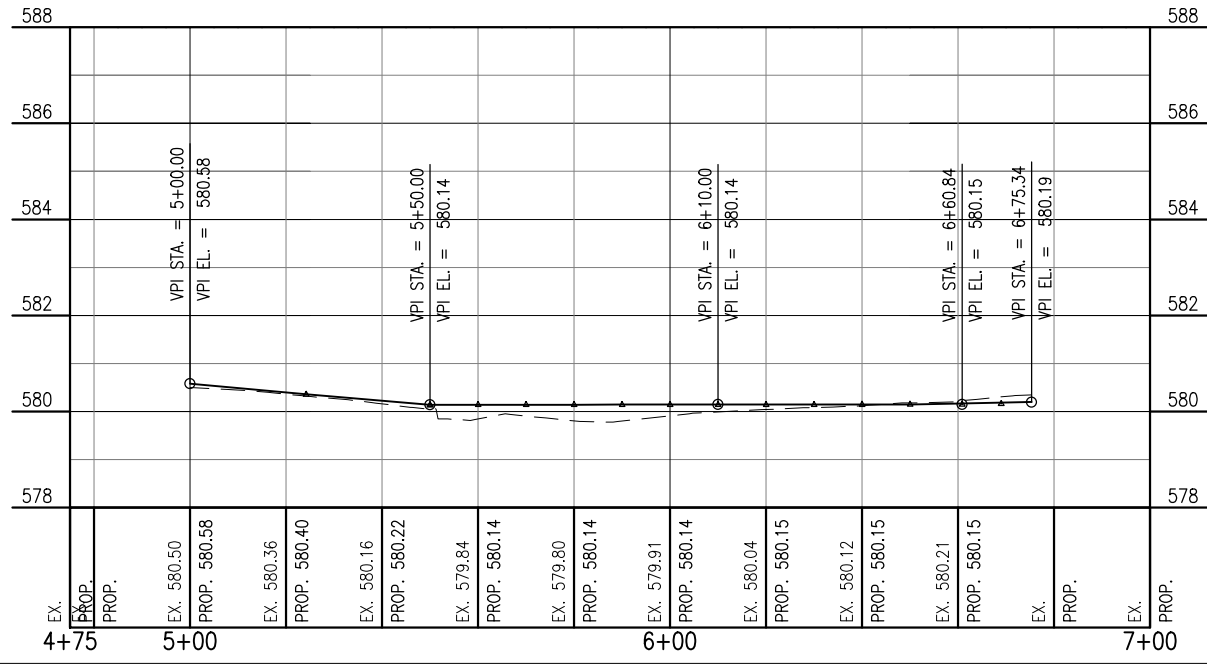
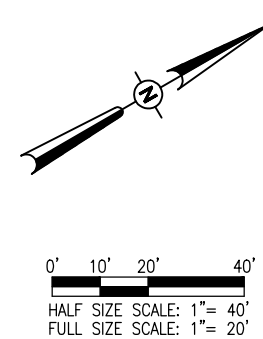
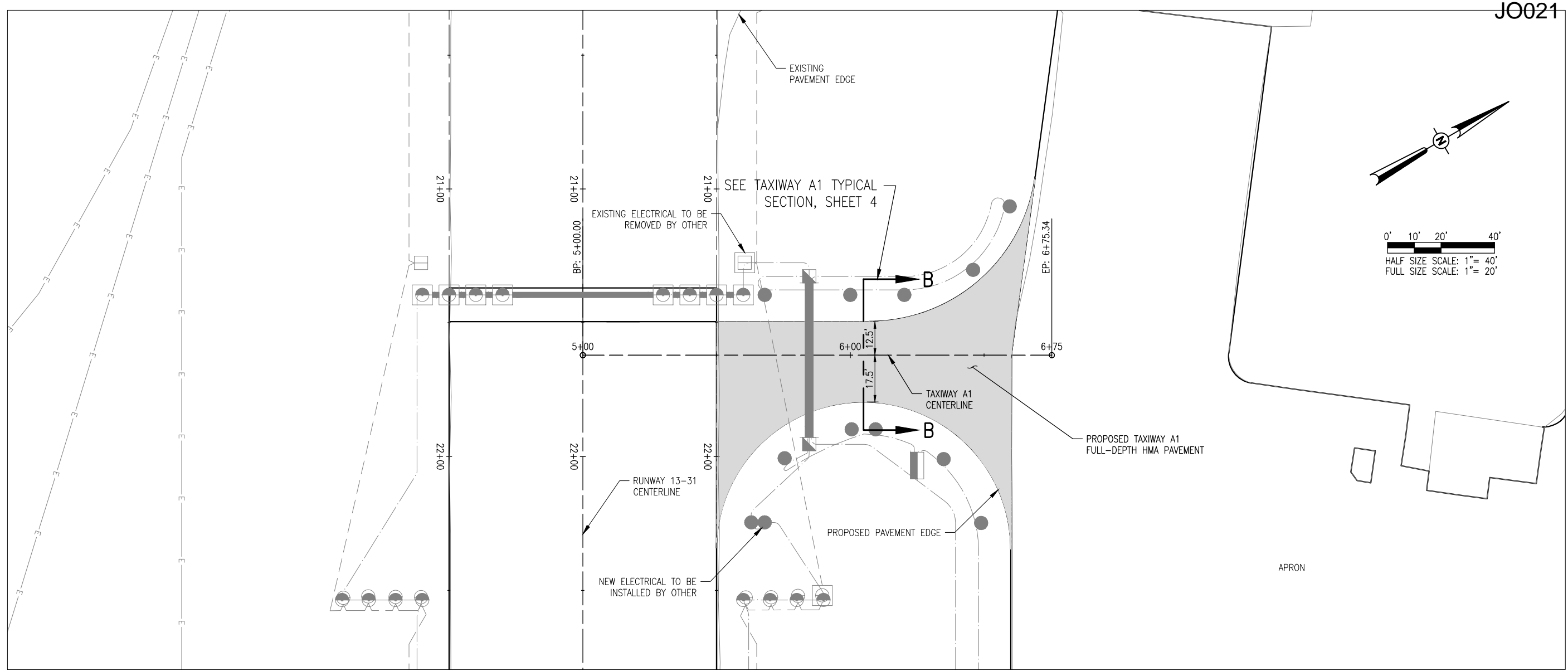
**JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
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Hanson Project No. 09A0152D_0001	Filename C-701-PNP.DWG	Scale H. 1" = 20' V. 1" = 2'	Date 5/14/12
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DRAWN	KBS	04/19/12	
REVIEWED	RAW	4/20/12	



REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1
 RUNWAY 13-31 PLAN & PROFILE STA. 46+50 TO STA. 51+00



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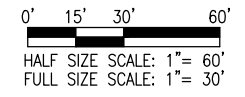
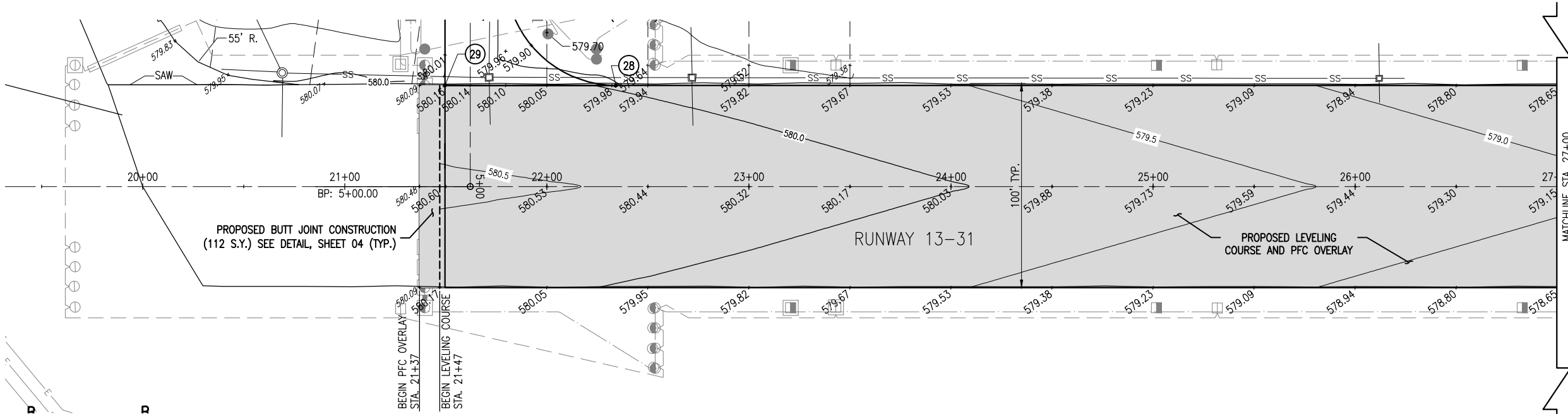
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Date: 5/14/12			



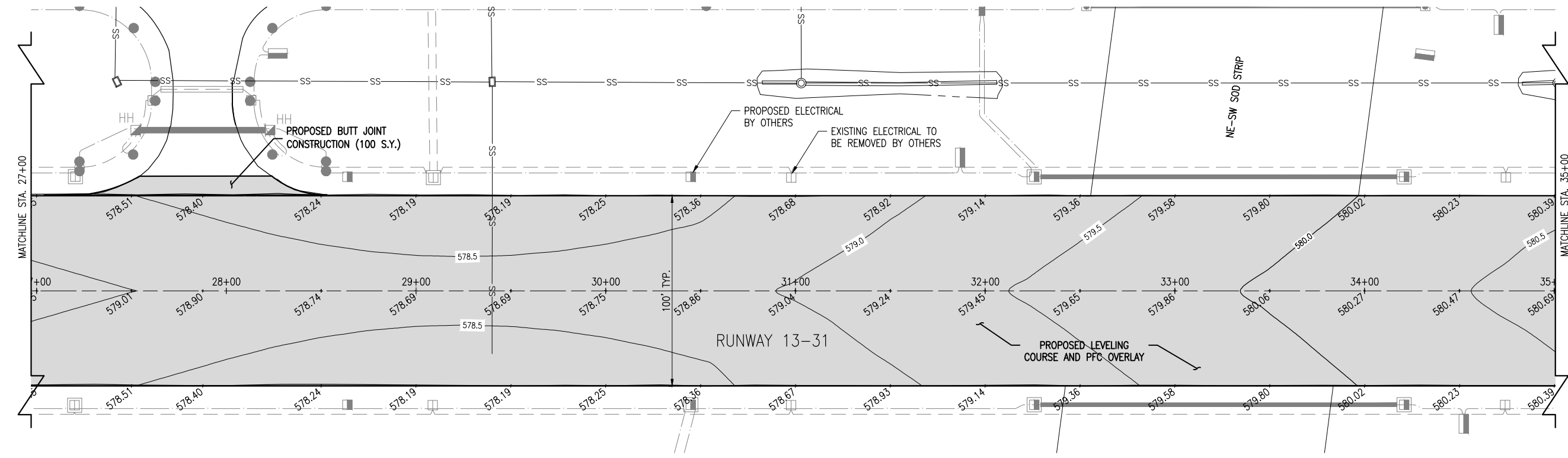
REHAB RUNWAY 13-31, REPLACE
 APRON, CONSTRUCT TAXIWAY A1

TAXIWAY A1 PLAN &
 PROFILE



LEGEND

- EXISTING PAVEMENT
- PROPOSED IMPROVEMENTS
- EXISTING INLET/MANHOLE
- EXISTING STORM SEWER
- EXISTING TOP OF DITCH



MAY 14, 2012 12:05 PM SCHME01296
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Hanson Project No. 09A0152D_0001	LAYOUT	KBS	04/19/12
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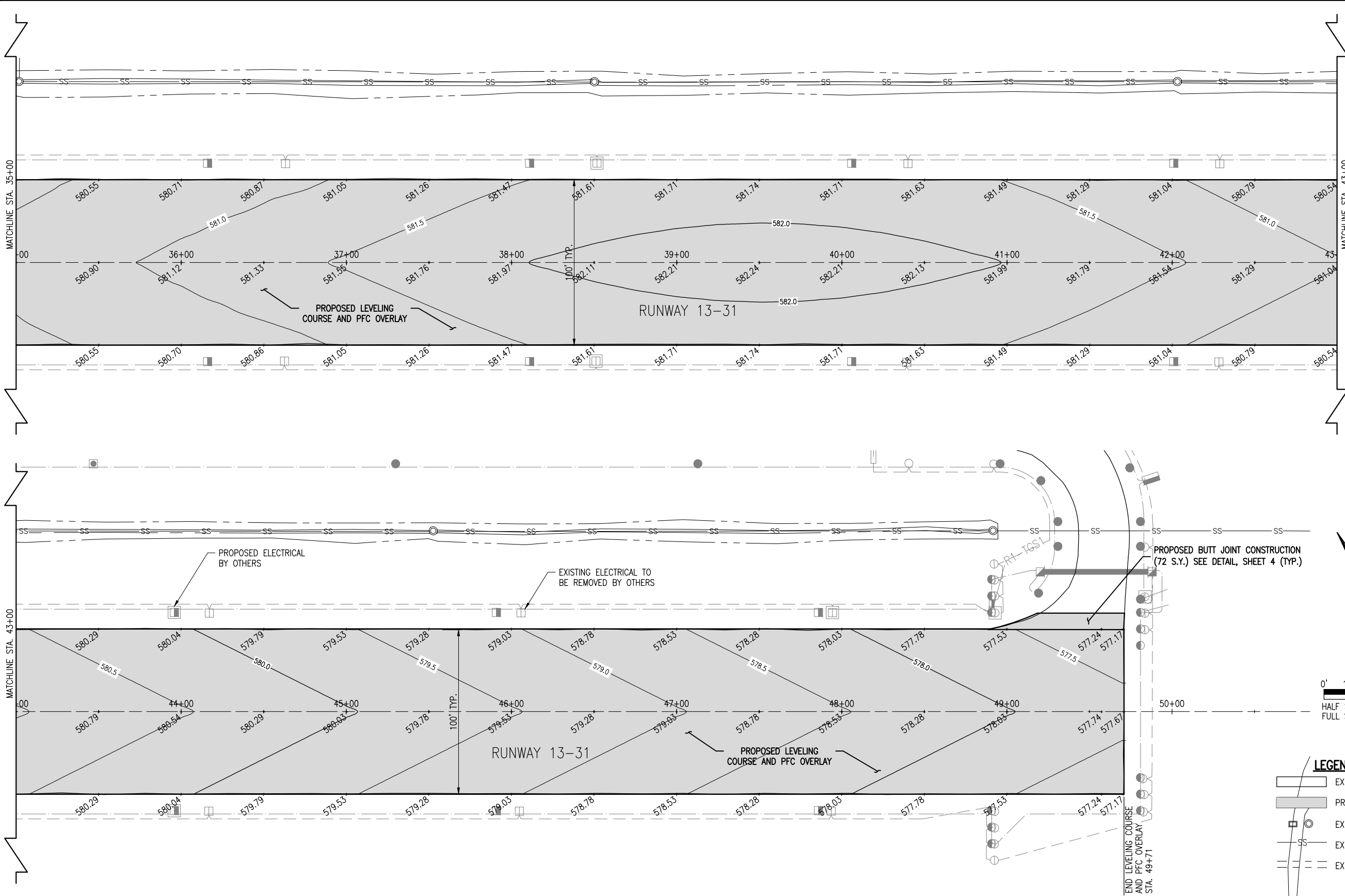


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 RUNWAY STAKING PLAN
 STA. 20+00 TO STA. 35+00

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IL PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

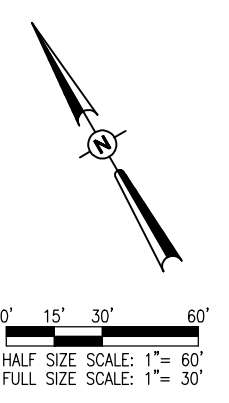
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Date: 5/14/12			

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REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

RUNWAY STAKING PLAN STA. 35+00 TO STA. 50+00



LEGEND

	EXISTING PAVEMENT
	PROPOSED IMPROVEMENTS
	EXISTING INLET/MANHOLE
	EXISTING STORM SEWER
	EXISTING TOP OF DITCH

MAY 14, 2012 12:06 PM SCHME01296
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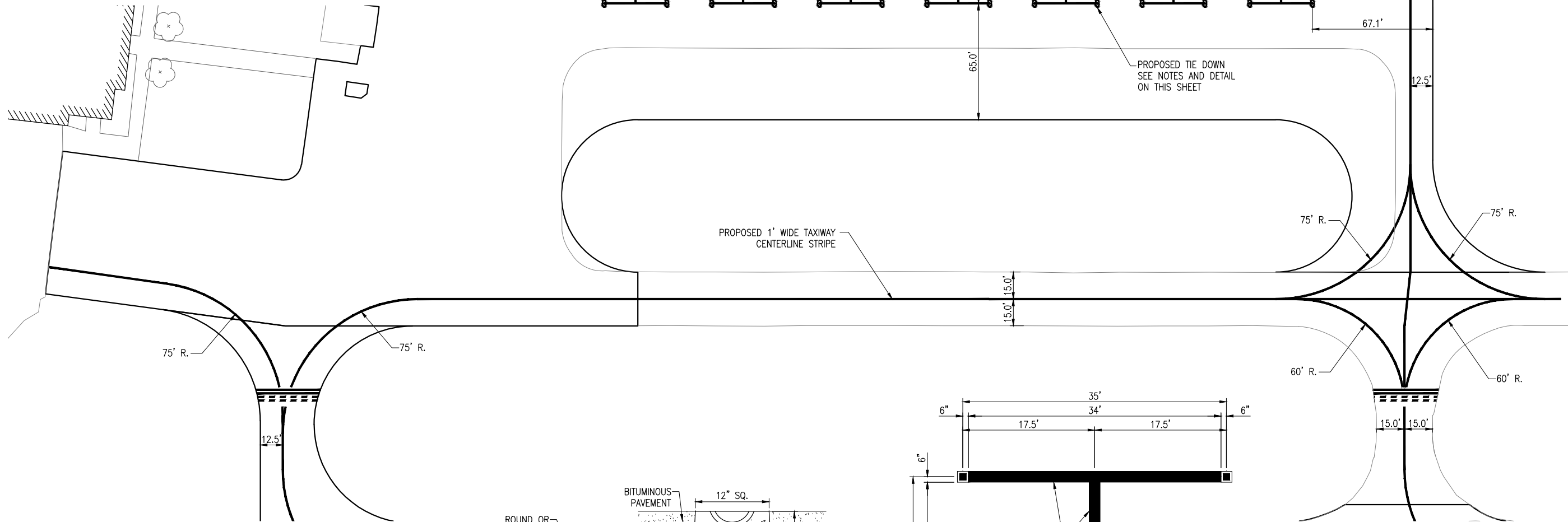
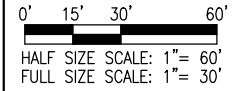
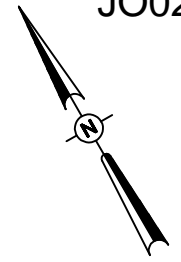
TIE DOWN NOTES

NEW TIE DOWNS WILL BE INSTALLED IN ACCORDANCE WITH DETAIL "B" AT THE LOCATIONS SHOWN ON THIS SHEET.
 THE PERIMETER OF EACH PROPOSED TIE DOWN SHALL BE SAWED.
 TIE DOWN CASTINGS SHALL BE NEENAH R-3490A OR EQUAL.
 CONCRETE SHALL MEET THE REQUIREMENTS OF 610 - STRUCTURAL CONCRETE.
 THE PROPOSED TIE DOWN MARKING WILL BE IN ACCORDANCE WITH DETAIL "A" ON THIS SHEET AND THE SPECIFICATIONS.
 THE TIE DOWNS WILL BE PAID FOR UNDER ITEM:
 AR510510 "TIE DOWN" _____ PER EA.

MARKING NOTES

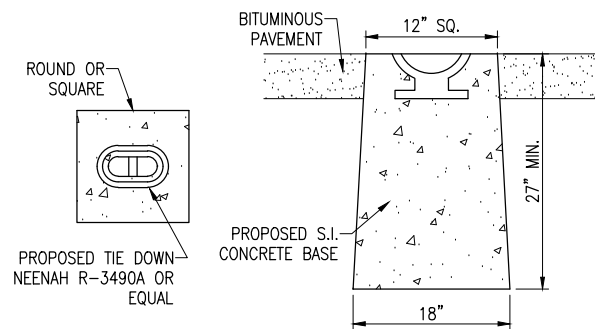
ALL TAXIWAY CENTERLINE AND TIE-DOWN MARKING SHALL BE 1' IN WIDTH AND SOLID. ALL MARKING WILL BE AS DETAILED.
 ALL WHITE AND YELLOW MARKING WILL HAVE A REFLECTIVE MEDIA. APPLICATION RATES WILL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
 "CUT-OFF" SHEETS SHALL BE USED TO INSURE STRAIGHT EDGES.
 THE PROPOSED MARKING WILL BE PAID FOR UNDER ITEM:
 AR620520 "PAVEMENT MARKING-WATERBORNE" PER S.F.
 AR620525 "PAVEMENT MARKING-BLACK BORDER" PER S.F.
 AR620530 "PAVEMENT MARKING-EPOXY" PER S.F.

JO021

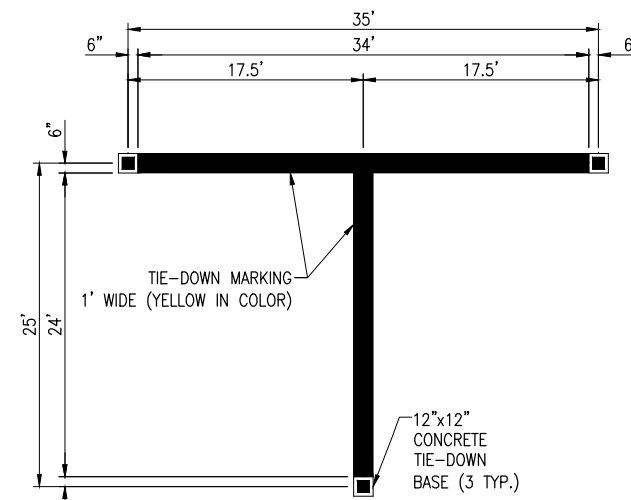


LEGEND

- PROPOSED PAVEMENT IMPROVEMENTS
- PROPOSED MARKING
- PROPOSED TIE-DOWNS



TIE DOWN DETAIL "B"
 "NOT TO SCALE"



TIE DOWN MARKING DETAIL "A"
 "NOT TO SCALE"

DATE	REVISION	BY

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 JOLIET, ILLINOIS**

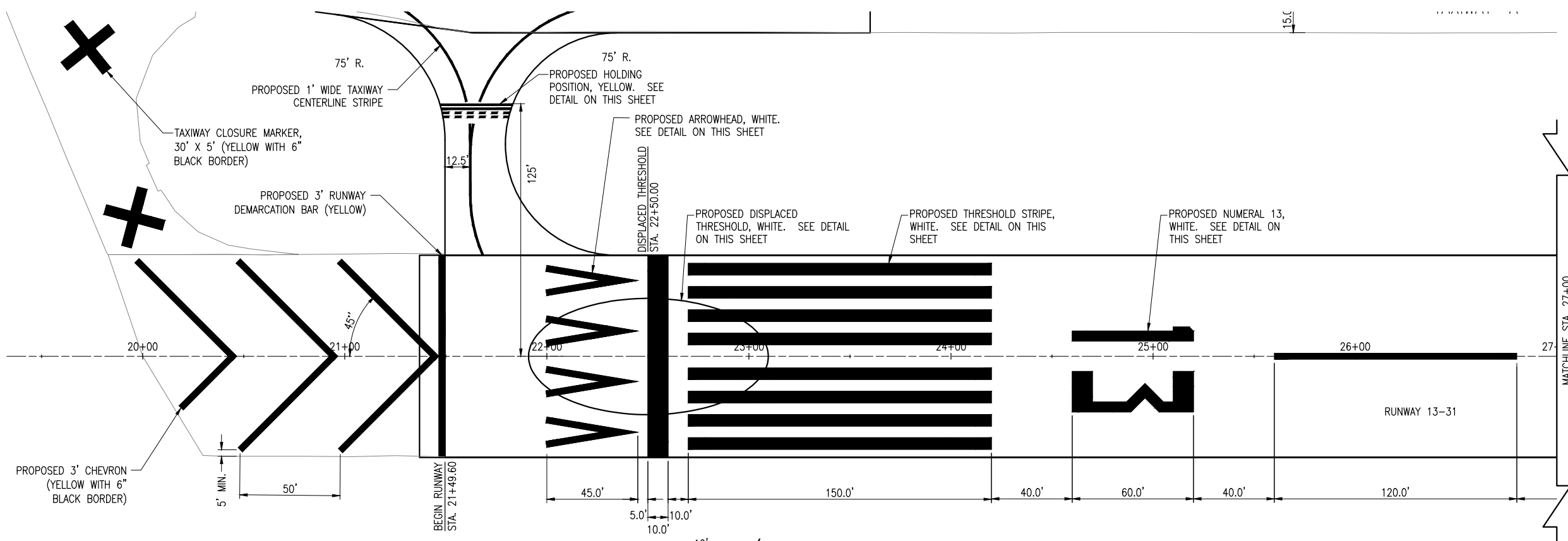
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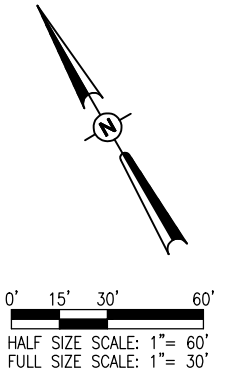
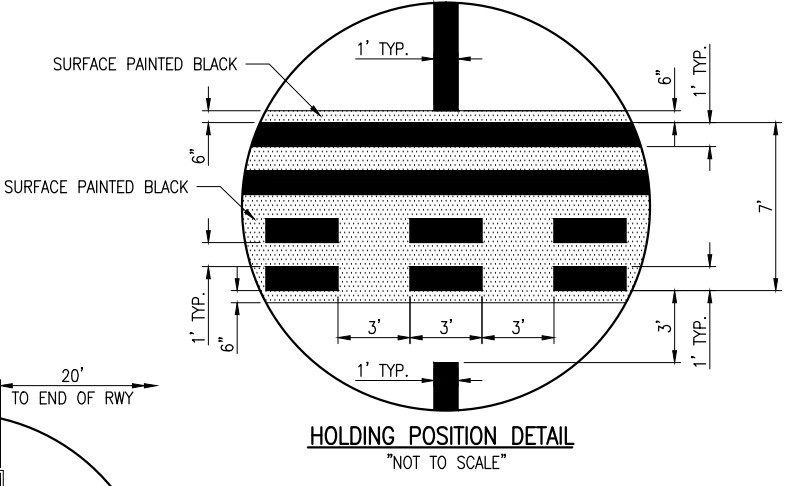
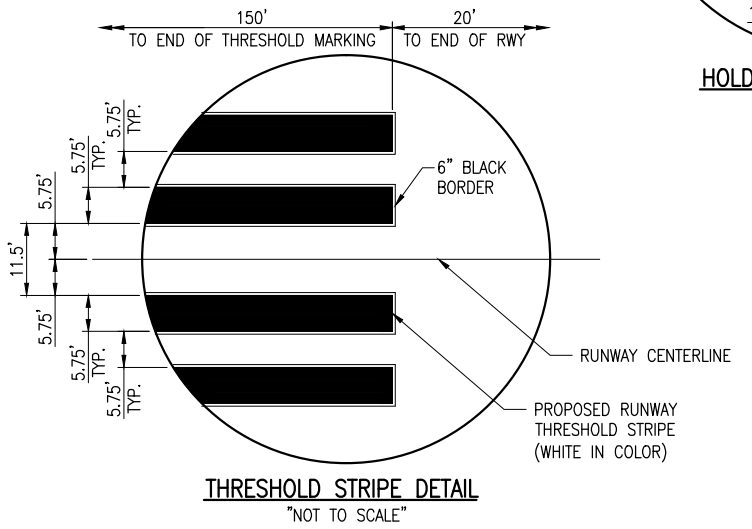
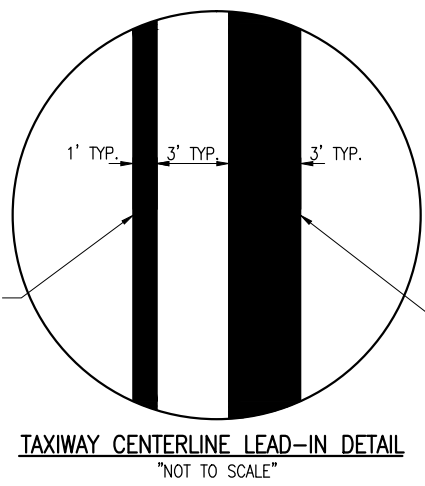
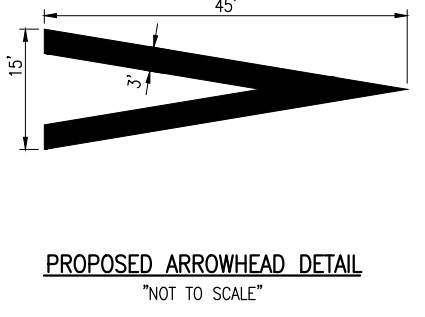
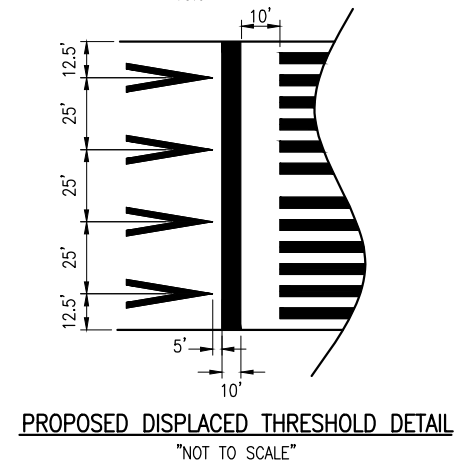
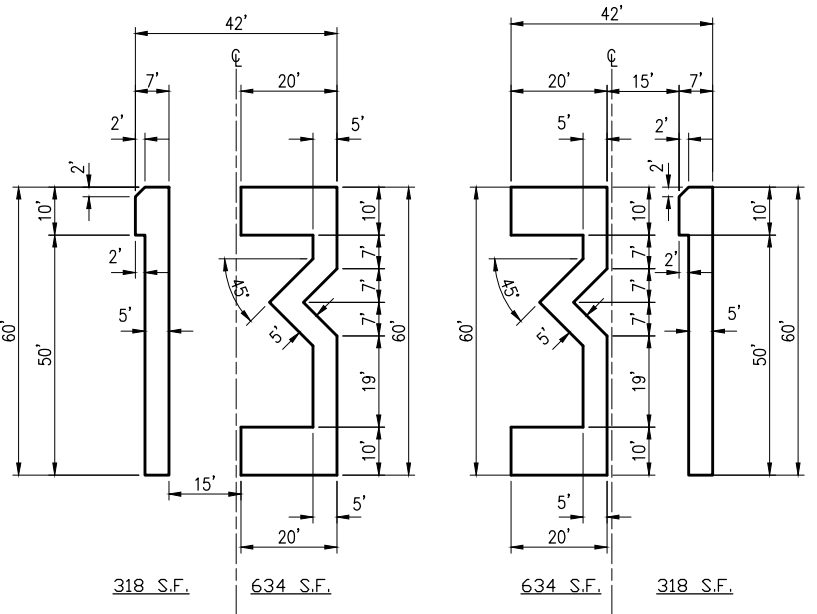
REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

APRON MARKING PLAN



LEGEND

	PROPOSED PAVEMENT IMPROVEMENTS
	PROPOSED MARKING
	PROPOSED TIE-DOWNS



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JOLIET REGIONAL AIRPORT
JOLIET PARK DISTRICT
JOLIET, ILLINOIS

IL. PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

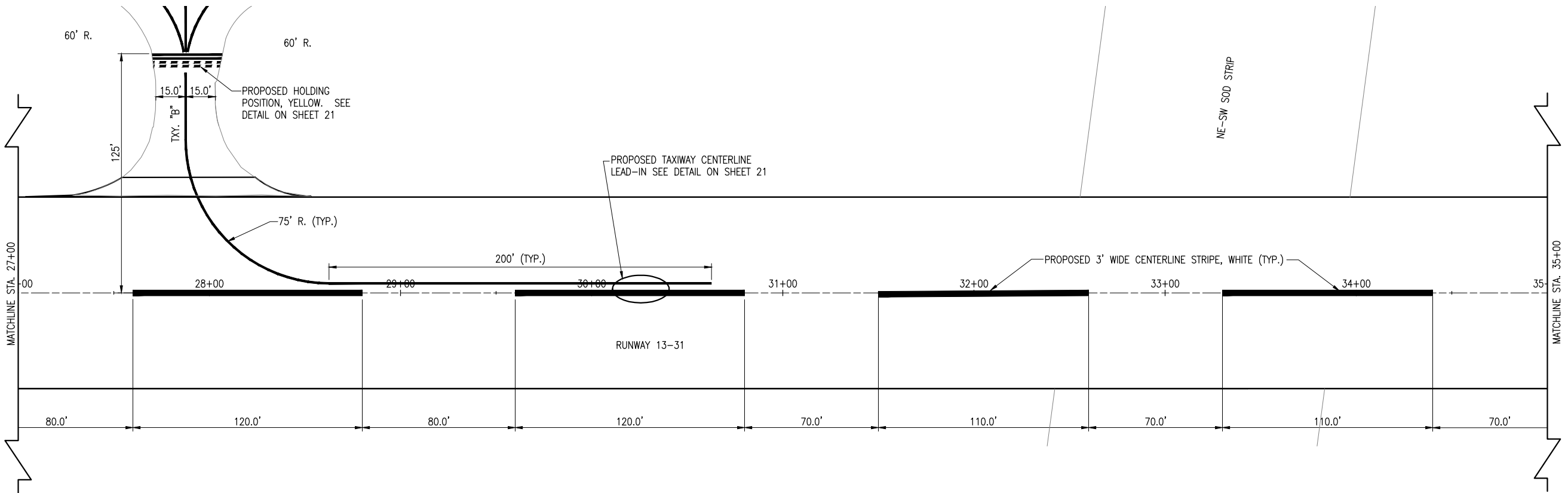
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Reviewed: [Signature]	REVIEWED: RAW	DATE: 4/20/12



REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

RUNWAY MARKING PLAN STA. 20+00 TO STA. 27+00

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620-PAVEMENT MARKING-WATERBORNE NOTES

THE PAVEMENT MARKING SHALL BE PLACED IN ACCORDANCE WITH ITEM 620 "PAVEMENT MARKING".

MARKING SHALL BE APPLIED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN IN THE PLANS. THE PROPOSED PAVEMENT MARKING WILL BE APPLIED IN TWO APPLICATIONS.

ANY MATERIAL DELIVERED THAT FAILS TO MEET THE SPECIFICATIONS SHALL BE DISPOSED OF BY THE VENDOR AND IMMEDIATELY REPLACED WITH ACCEPTABLE MATERIAL ENTIRELY AT THE VENDOR'S EXPENSE, INCLUDING HANDLING AND TRANSPORTATION CHARGES.

ALL CURING COMPOUND WILL BE CLEANED FROM CONCRETE PAVEMENT PRIOR TO APPLYING PAINT. NO EXCEPTIONS.




ALL PROPOSED MARKING WILL BE COMPLETED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION PLANS.

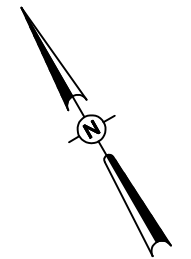
GLASS BEADS SHALL BE REQUIRED ONLY ON THE SECOND APPLICATION.

CUT-OFF SHEETS WILL BE REQUIRED TO INSURE STRAIGHT EDGES.

THE PROPOSED MARKING WILL BE PAID FOR UNDER ITEM:
 AR620520 "PAVEMENT MARKING-WATERBORNE" PER S.F.
 AR620525 "PAVEMENT MARKING-BLACK BORDER" PER S.F.
 AR620530 "PAVEMENT MARKING-EPOXY" PER S.F.

LEGEND

-  PROPOSED PAVEMENT IMPROVEMENTS
-  PROPOSED MARKING
-  PROPOSED TIE-DOWNS



0' 15' 30' 60'
 HALF SIZE SCALE: 1" = 60'
 FULL SIZE SCALE: 1" = 30'

DATE	REVISION	BY

**JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS**

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Hanson Project No. 09A0152D_0001	LAYOUT	KBS	04/19/12
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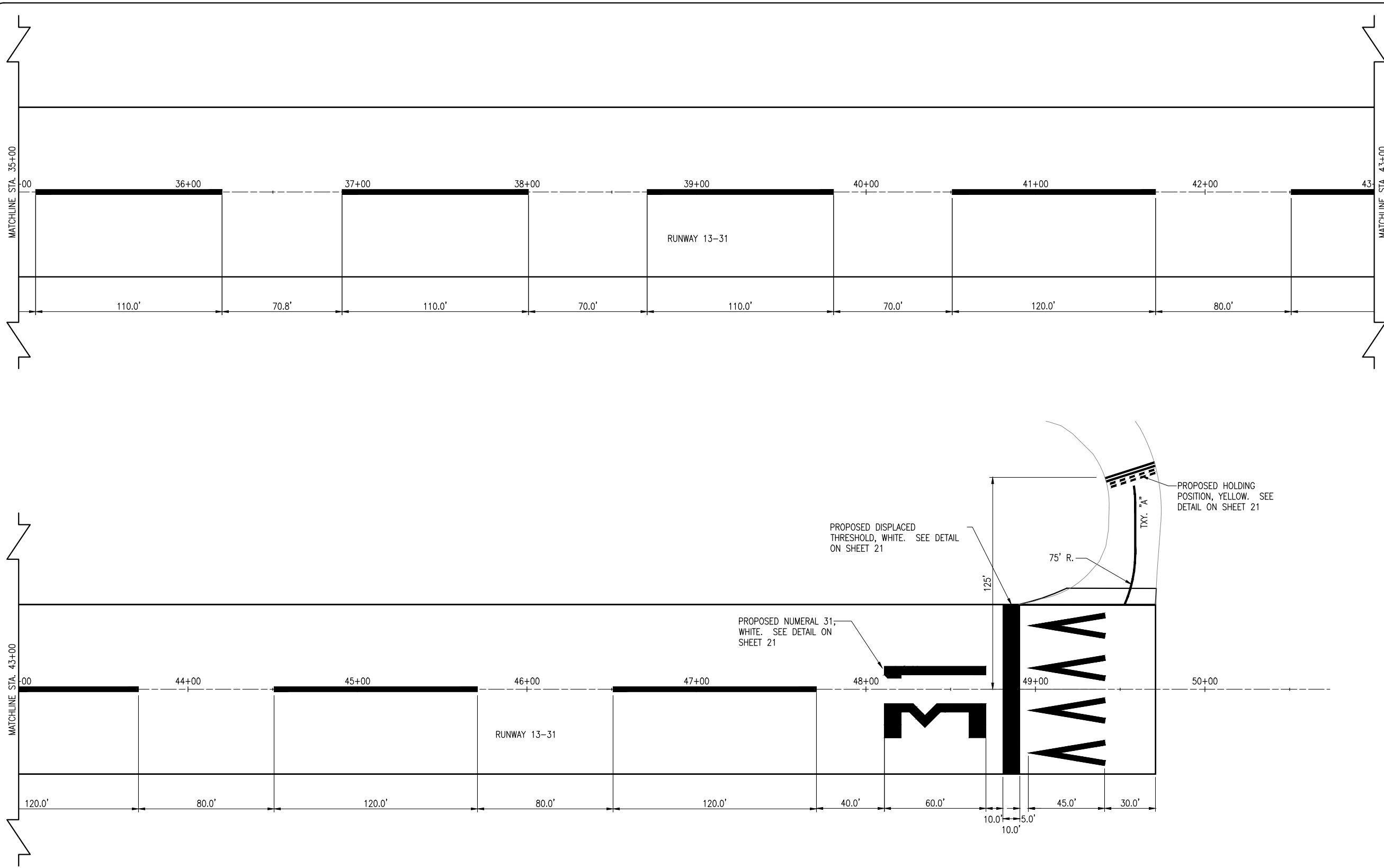
REHAB RUNWAY 13-31, REPLACE
 APRON, CONSTRUCT TAXIWAY A1

RUNWAY MARKING PLAN
 STA. 27+00 TO STA. 35+00

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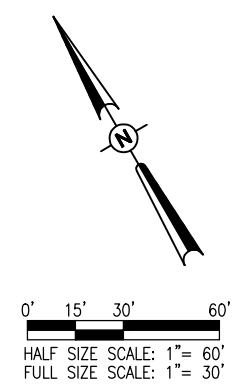
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- LEGEND**
- PROPOSED PAVEMENT IMPROVEMENTS
 - PROPOSED MARKING
 - PROPOSED TIE-DOWNS



DATE	REVISION	BY

**JOLIET REGIONAL AIRPORT
JOLIET PARK DISTRICT
JOLIET, ILLINOIS**

IL. PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

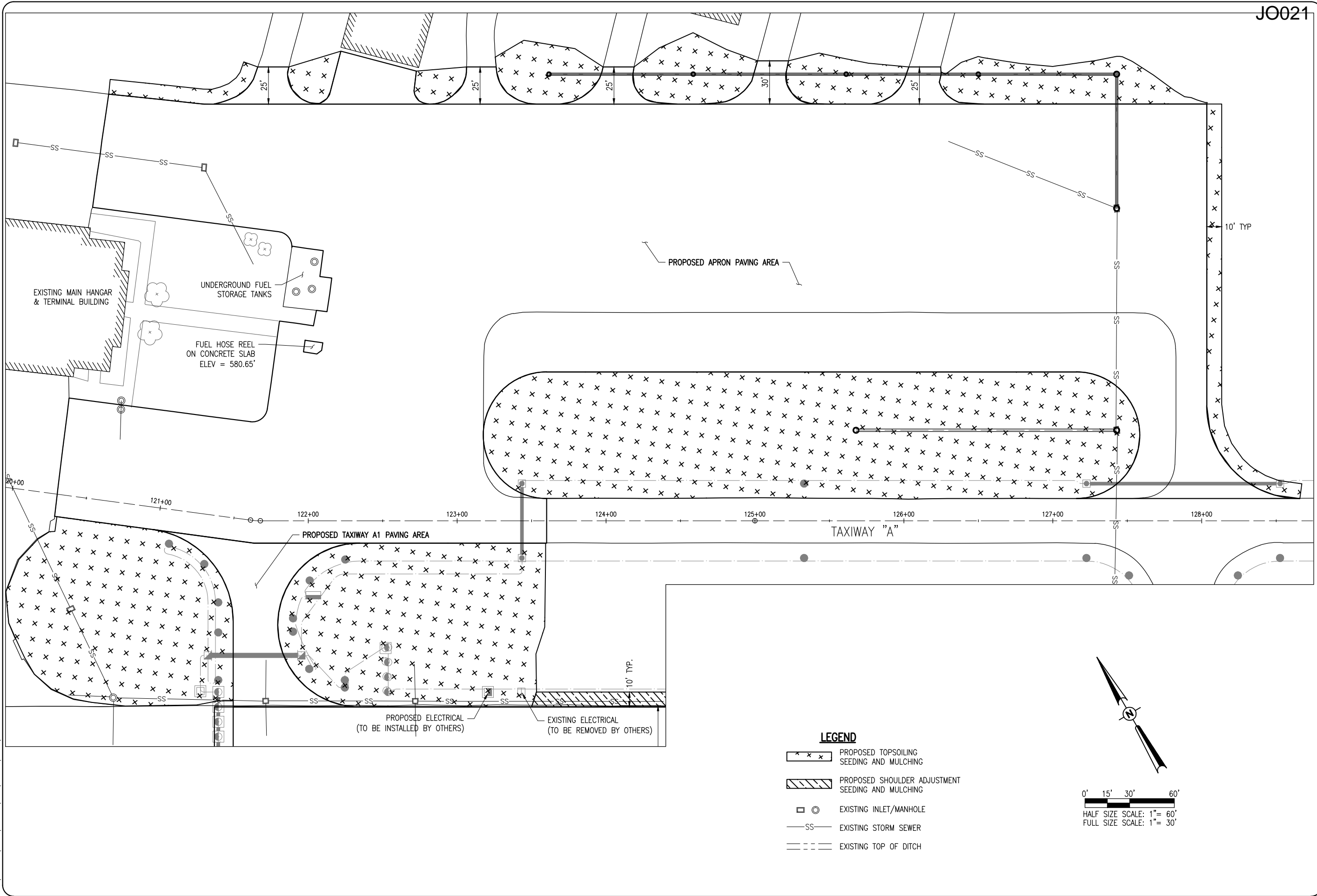
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REVIEWED	RAW	4/20/12	



REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

RUNWAY MARKING PLAN STA. 35+00 TO STA. 50+00

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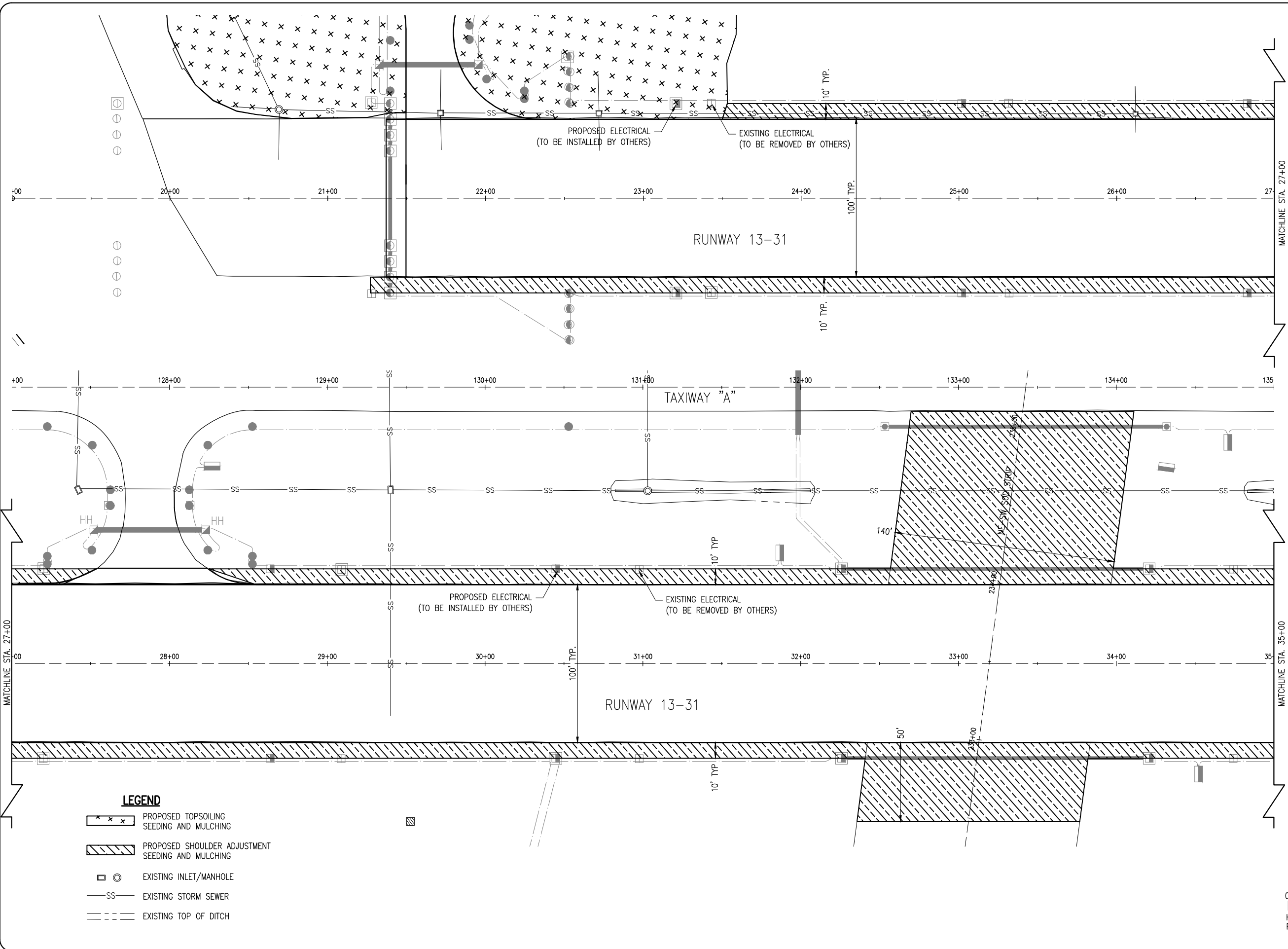


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 APRON, CONSTRUCT TAXIWAY A1

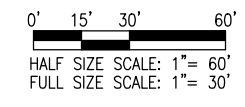
APRON LANDSCAPING
 PLAN

MAY 14, 2012 12:06 PM SCHME01296
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- LEGEND**
- PROPOSED TOPSOILING SEEDING AND MULCHING
 - PROPOSED SHOULDER ADJUSTMENT SEEDING AND MULCHING
 - EXISTING INLET/MANHOLE
 - EXISTING STORM SEWER
 - EXISTING TOP OF DITCH



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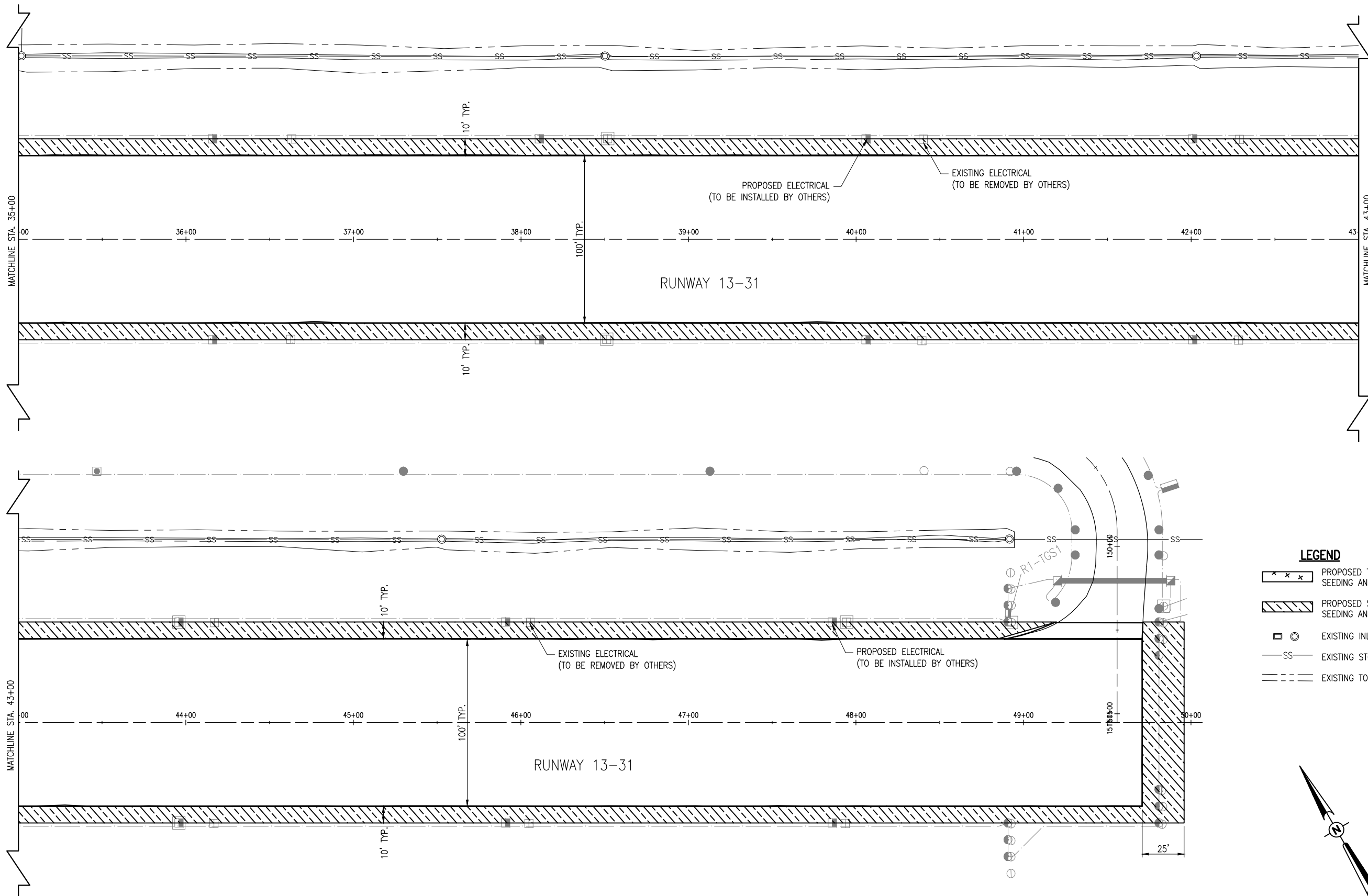
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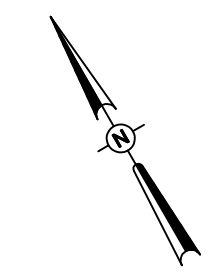
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 RUNWAY LANDSCAPING PLAN STA. 20+00 TO STA. 35+00



- LEGEND**
- PROPOSED TOPSOILING SEEDING AND MULCHING
 - PROPOSED SHOULDER ADJUSTMENT SEEDING AND MULCHING
 - EXISTING INLET/MANHOLE
 - EXISTING STORM SEWER
 - EXISTING TOP OF DITCH



0' 15' 30' 60'
 HALF SIZE SCALE: 1" = 60'
 FULL SIZE SCALE: 1" = 30'

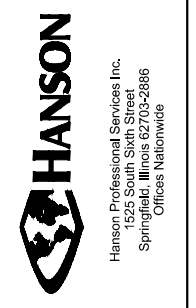
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REVISION	DATE	BY

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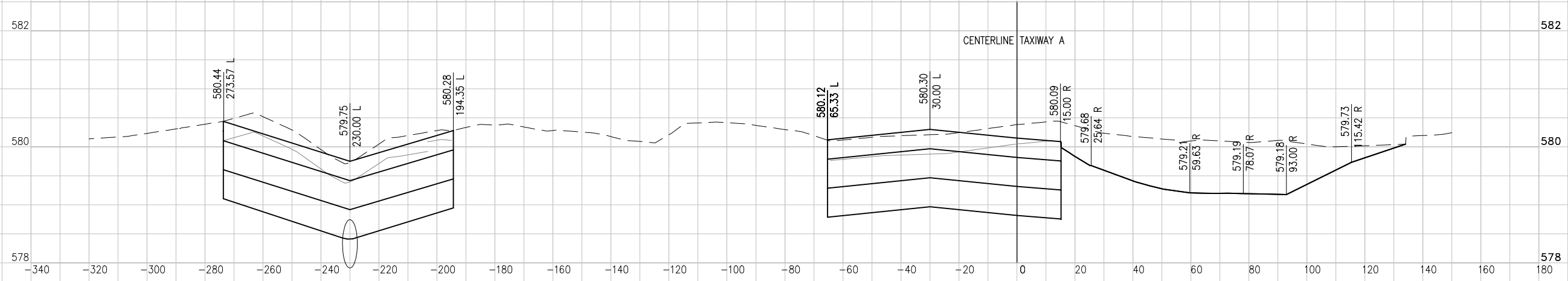
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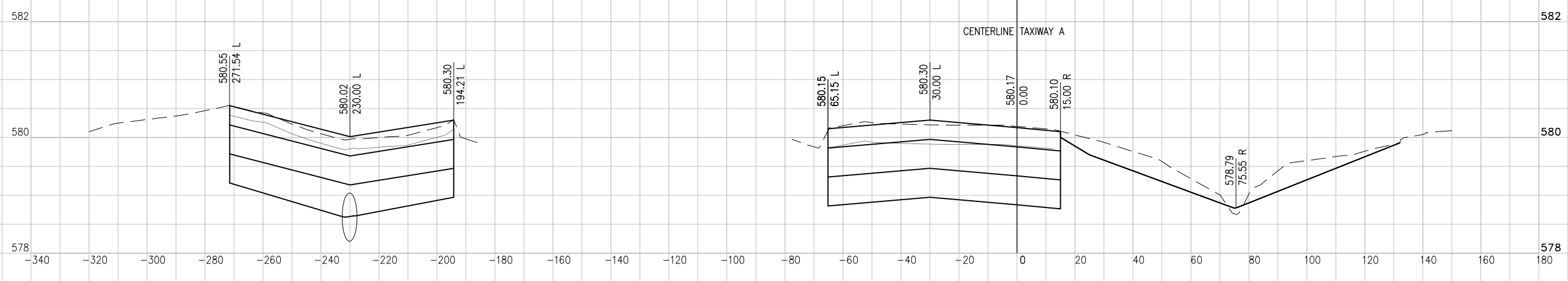


REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1
 RUNWAY LANDSCAPING PLAN STA. 35+00 TO STA. 50+00

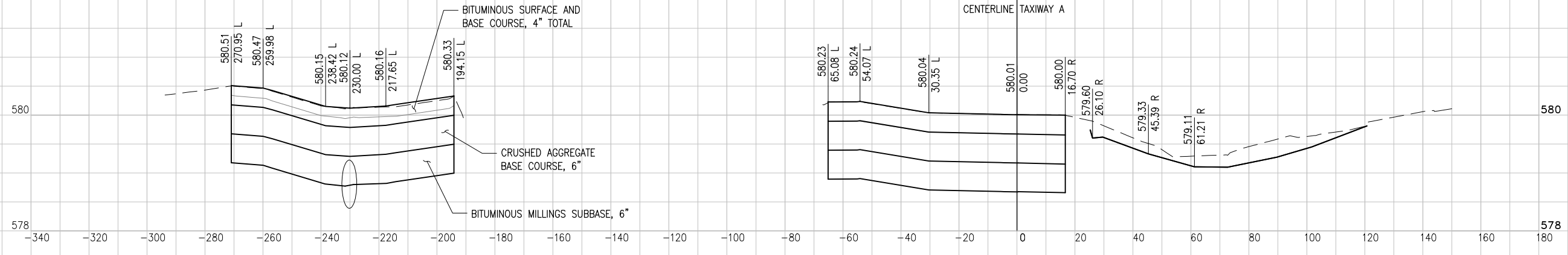
STA.
121+00



STA.
120+50



STA.
120+30



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**JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS**

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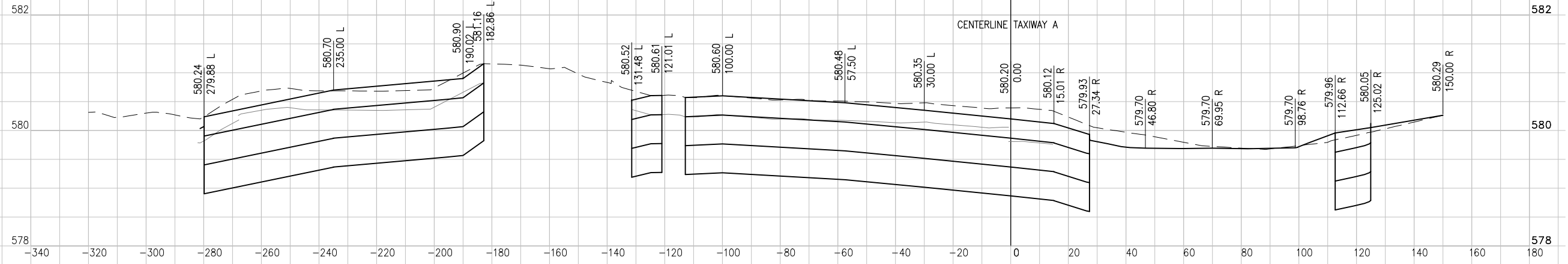
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		REVIEWED	RAW	4/20/12



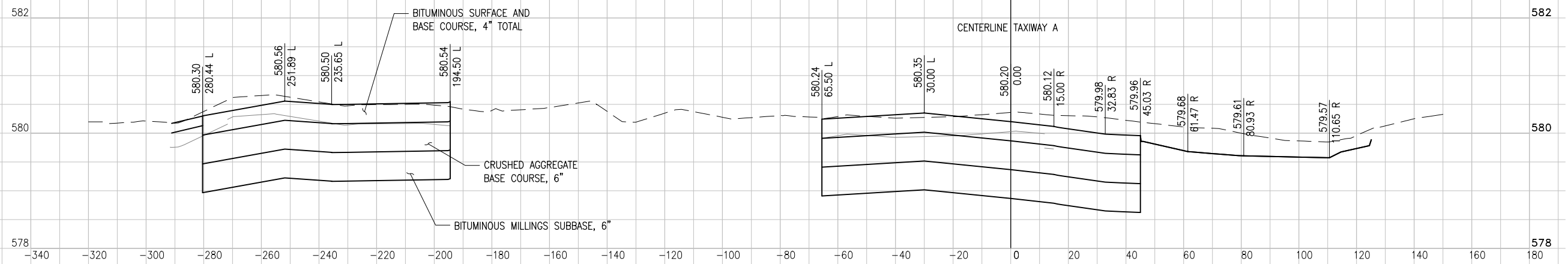
REHAB RUNWAY 13-31, REPLACE
 APRON, CONSTRUCT TAXIWAY A1

APRON CROSS SECTIONS
 STA. 120+30 TO STA. 121+00

STA.
122+00



STA.
121+50



DATE	REVISION	BY

**JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS**

IL. PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

Hanson Project No. 09A0152D_0001	File Name: R-301XS-APN.DWG	Scale: H, 1" = 20' V, 1" = 1'	Date: 5/14/12
LAYOUT	KBS	04/20/12	
DRAWN	KBS	04/20/12	
REVIEWED	RAW	4/20/12	

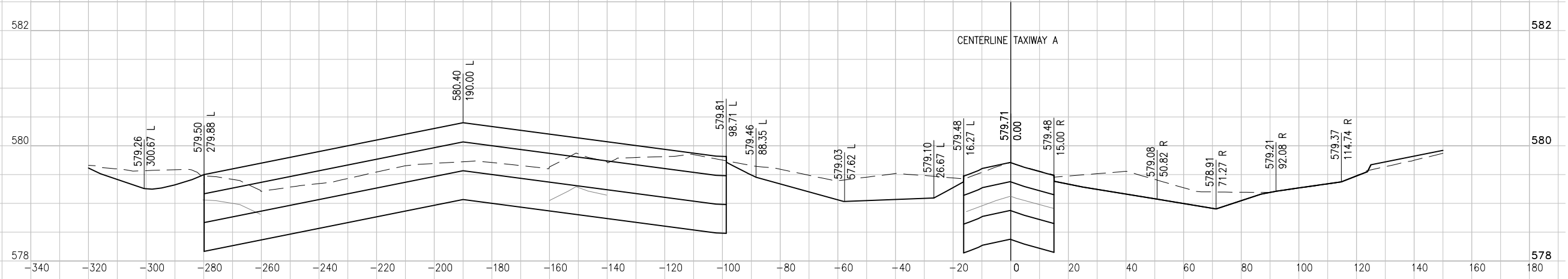


REHAB RUNWAY 13-31, REPLACE
 APRON, CONSTRUCT TAXIWAY A1

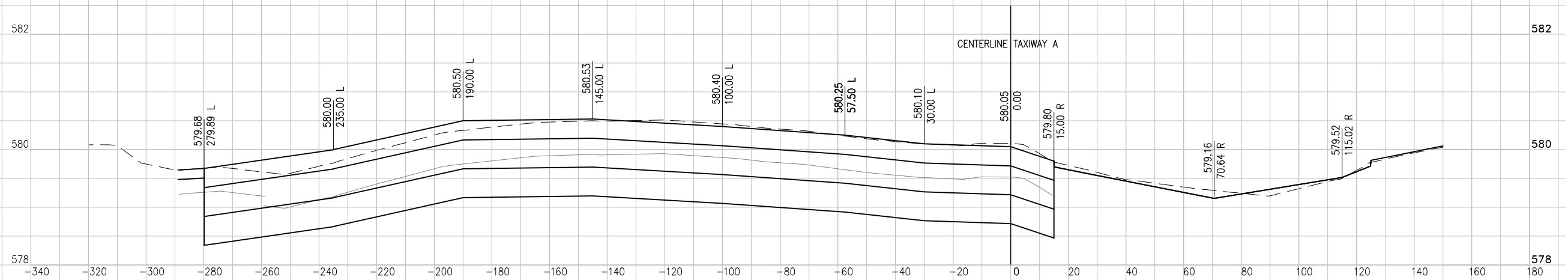
APRON CROSS SECTIONS
 STA. 121+50 TO STA. 122+00

MAY 14, 2012 12:07 PM SCHMEIDT296
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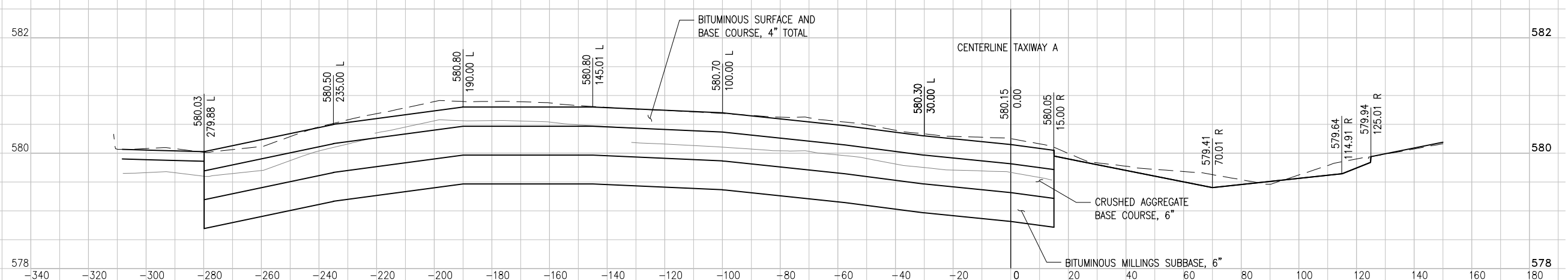
STA.
123+50



STA.
123+00



STA.
122+50



DATE	REVISION	BY

**JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS**

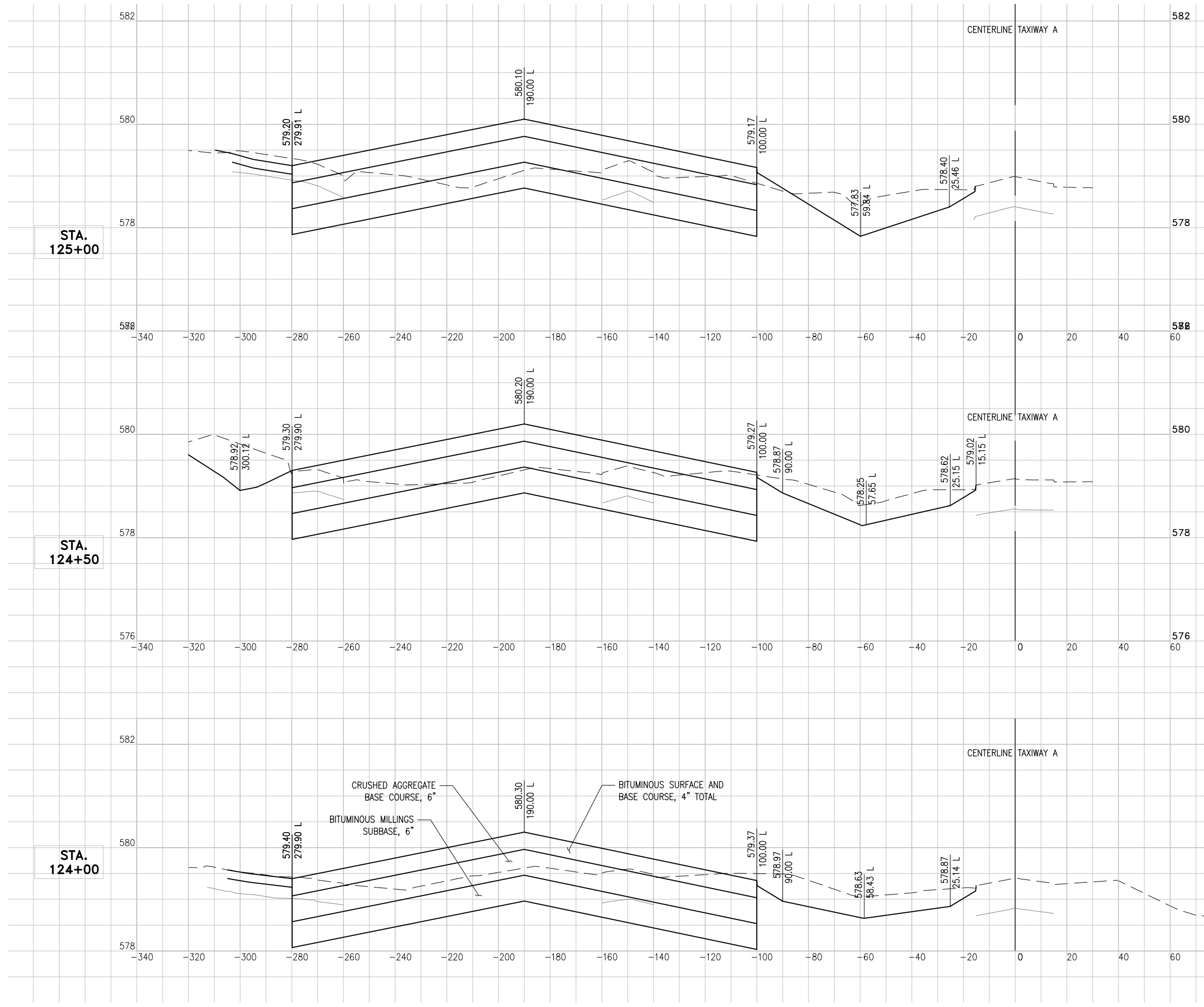
IL PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

Hanson Project No.	09A0152D_0001
Filename	R-301XS-APNDWG
Scale	H, 1"=20' V, 1"=1'
Date	5/14/12
LAYOUT	KBS 04/20/12
DRAWN	KBS 04/20/12
REVIEWED	RAW 4/20/12



Hanson Professional Services Inc.
 1525 South Sixth Street
 Springfield, Illinois 62762-2886
 Offices Nationwide

REHAB RUNWAY 13-31, REPLACE
 APRON, CONSTRUCT TAXIWAY A1
 APRON CROSS SECTIONS
 STA. 122+50 TO STA. 123+50

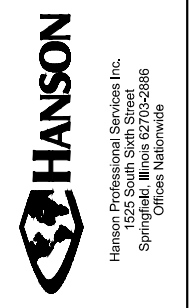


DATE	REVISION	BY

**JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS**

IL PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

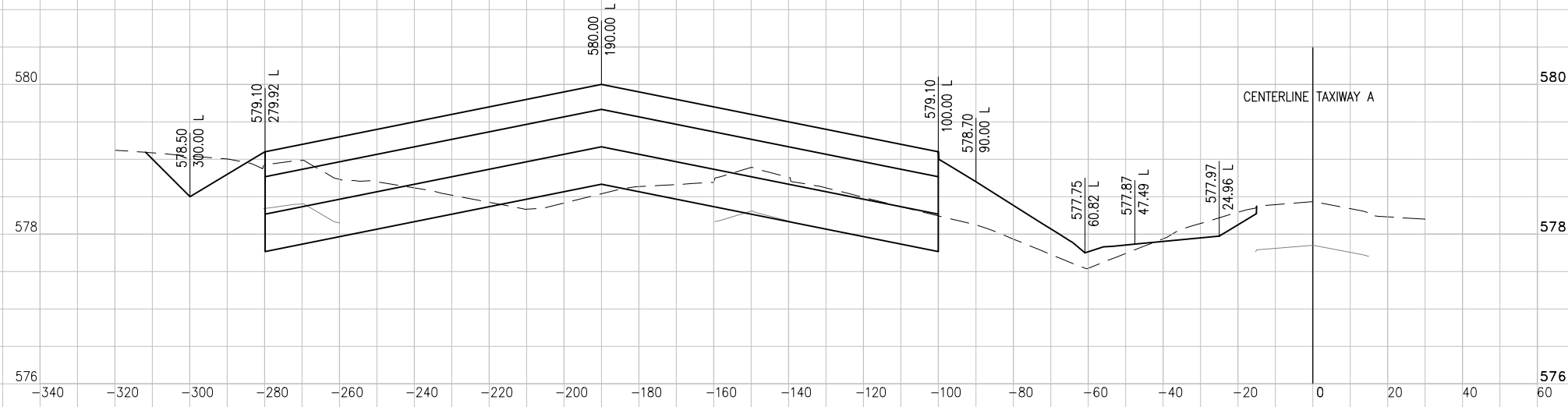
Hanson Project No. 09A0152D_0001	File Name: R-301XS-APN.DWG	Date: 5/14/12
Scale: H, 1" = 20' V, 1" = 1'	LAYOUT: KBS	04/20/12
	DRAWN: KBS	04/20/12
	REVIEWED: RAW	4/20/12



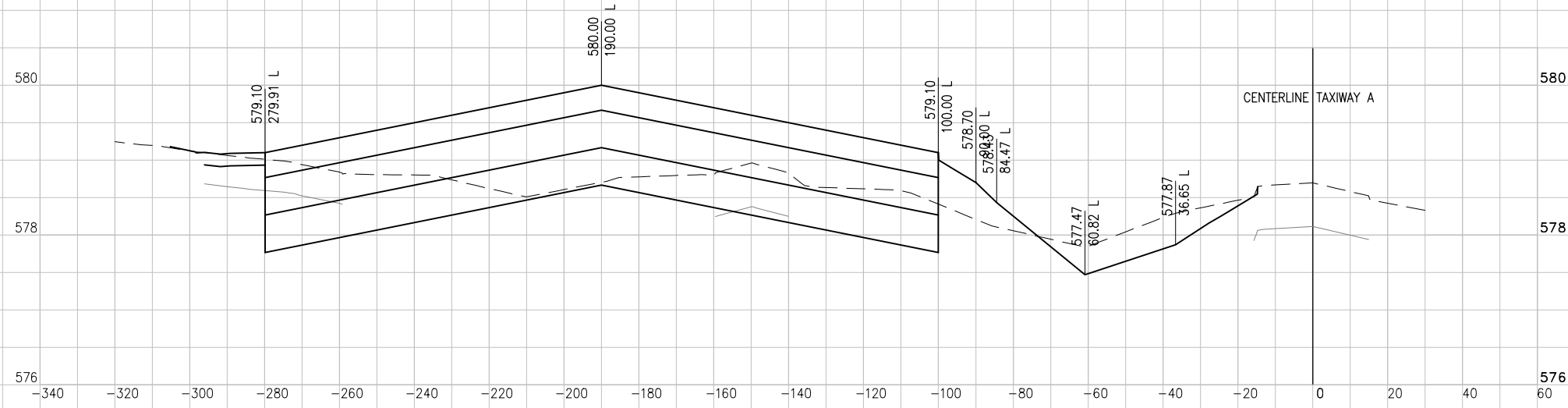
REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

APRON CROSS SECTIONS STA. 124+00 TO STA. 125+00

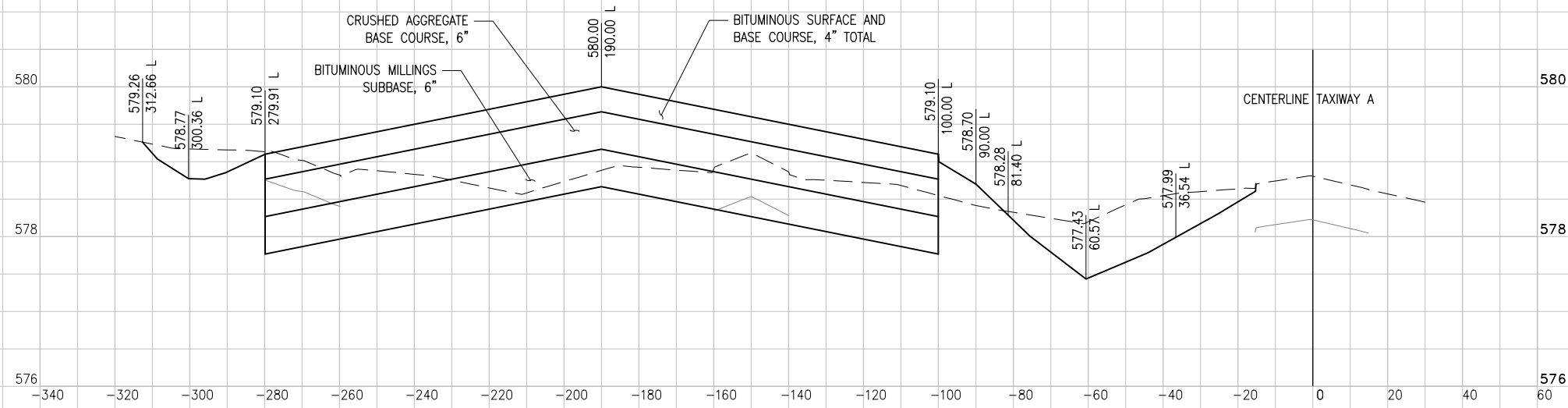
STA.
126+50



STA.
126+00



STA.
125+50



DATE	REVISION	BY

**JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS**

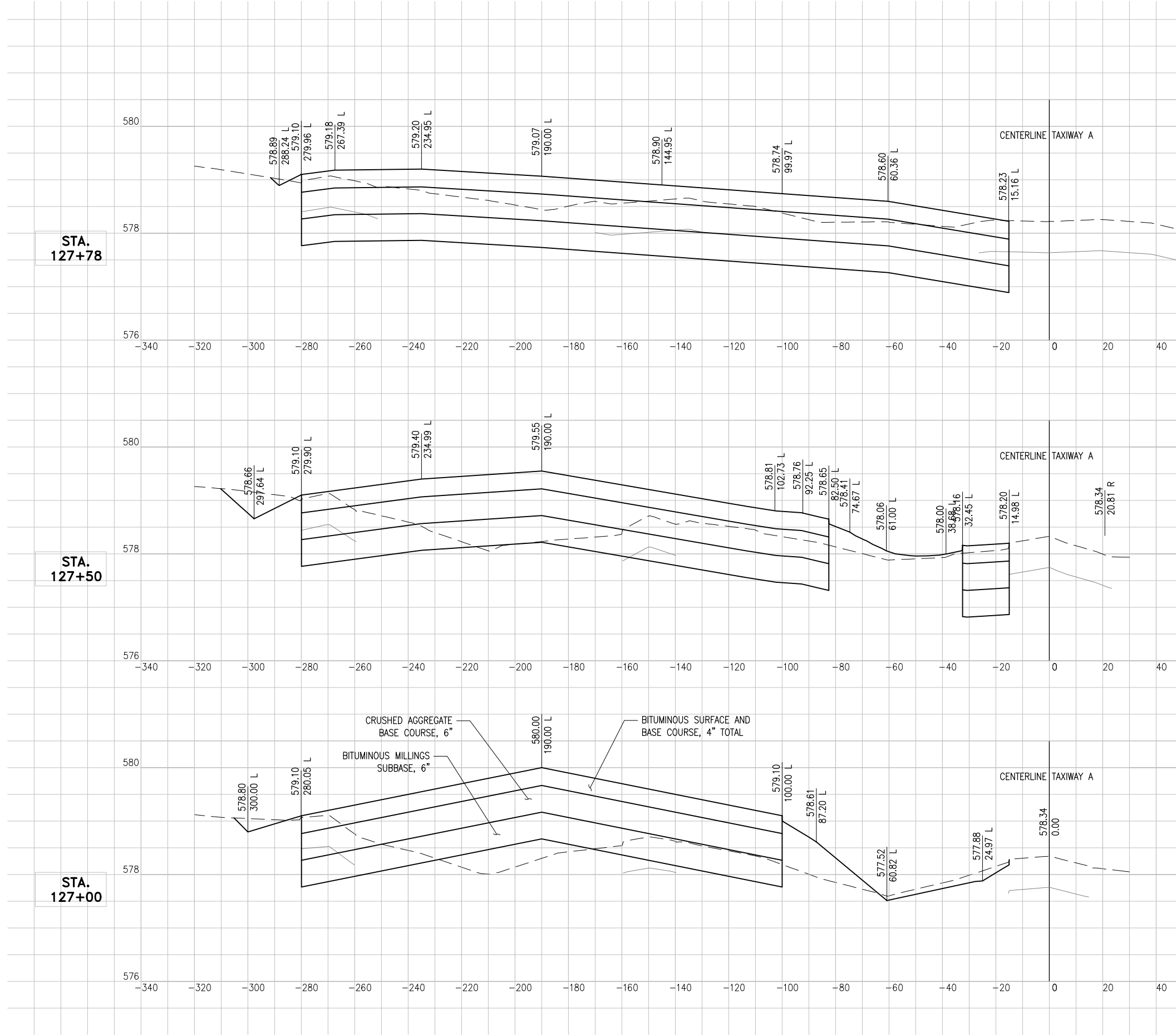
IL PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

Hanson Project No. 09A0152D_0001	Filename: R-301XS-APN.DWG	Scale: H, 1" = 20' V, 1" = 1'	Date: 5/14/12
LAYOUT	KBS	04/20/12	
DRAWN	KBS	04/20/12	
REVIEWED	RAW	4/20/12	



REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

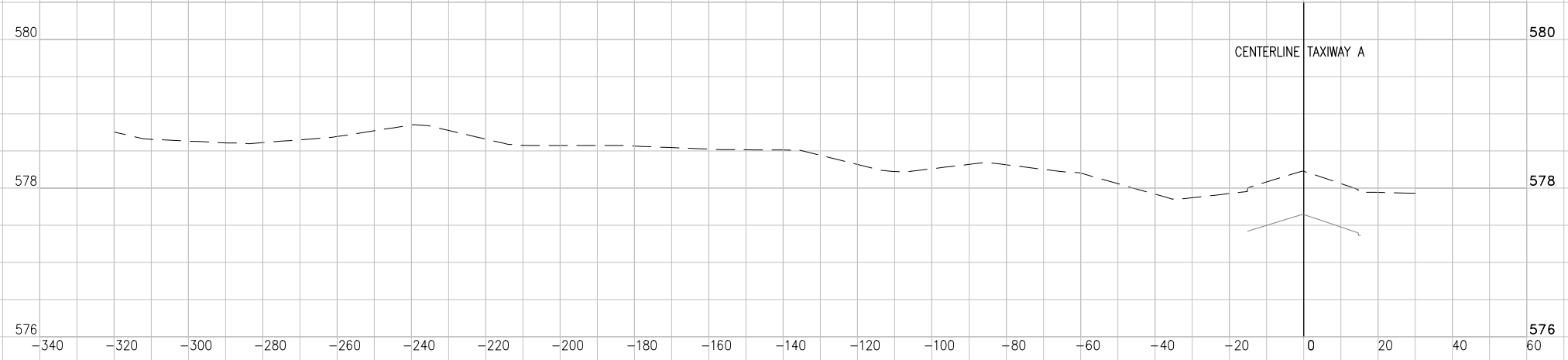
APRON CROSS SECTIONS STA. 125+50 TO STA. 126+50



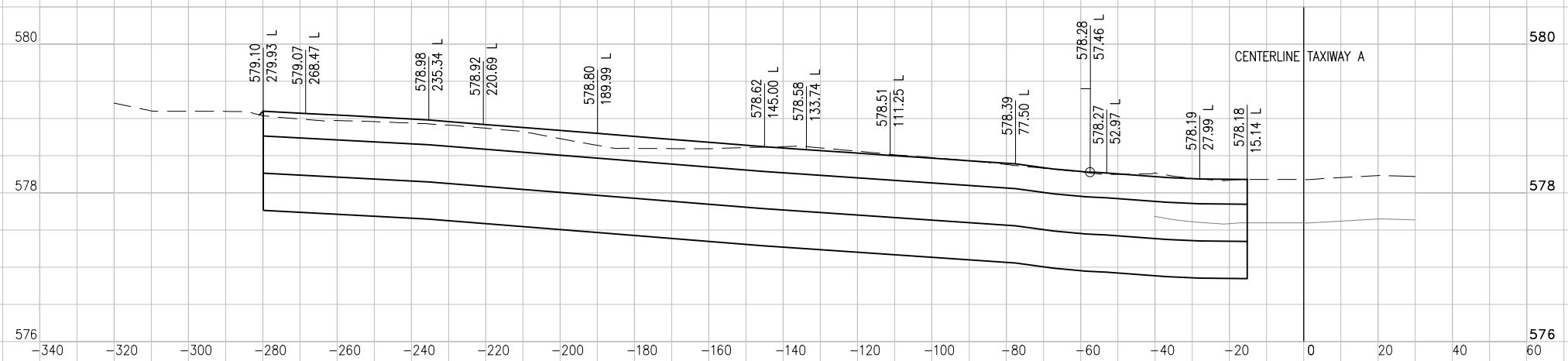
<p>REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1</p>										
<p>APRON CROSS SECTIONS STA. 127+00 TO STA. 127+78</p>										
<p>32 32 of 44 sheets</p>										
<p>HANSON Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62762-2886 Offices Nationwide</p>										
<p>Hanson Project No. 09A0152D_0001 Filename: R-301XS-APNDWG Scale: H, 1" = 20' V, 1" = 1' Date: 5/14/12</p>	<table border="1"> <tr> <td>LAYOUT</td> <td>KBS</td> <td>04/20/12</td> </tr> <tr> <td>DRAWN</td> <td>KBS</td> <td>04/20/12</td> </tr> <tr> <td>REVIEWED</td> <td>RAW</td> <td>4/20/12</td> </tr> </table>	LAYOUT	KBS	04/20/12	DRAWN	KBS	04/20/12	REVIEWED	RAW	4/20/12
LAYOUT	KBS	04/20/12								
DRAWN	KBS	04/20/12								
REVIEWED	RAW	4/20/12								
<p>JOLIET REGIONAL AIRPORT JOLIET PARK DISTRICT JOLIET, ILLINOIS</p>										
<p>DATE</p>	<p>REVISION</p>									
<p>BY</p>	<p>BY</p>									
<p>IL PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6</p>										

MAY 14, 2012 12:07 PM SCHMED1296
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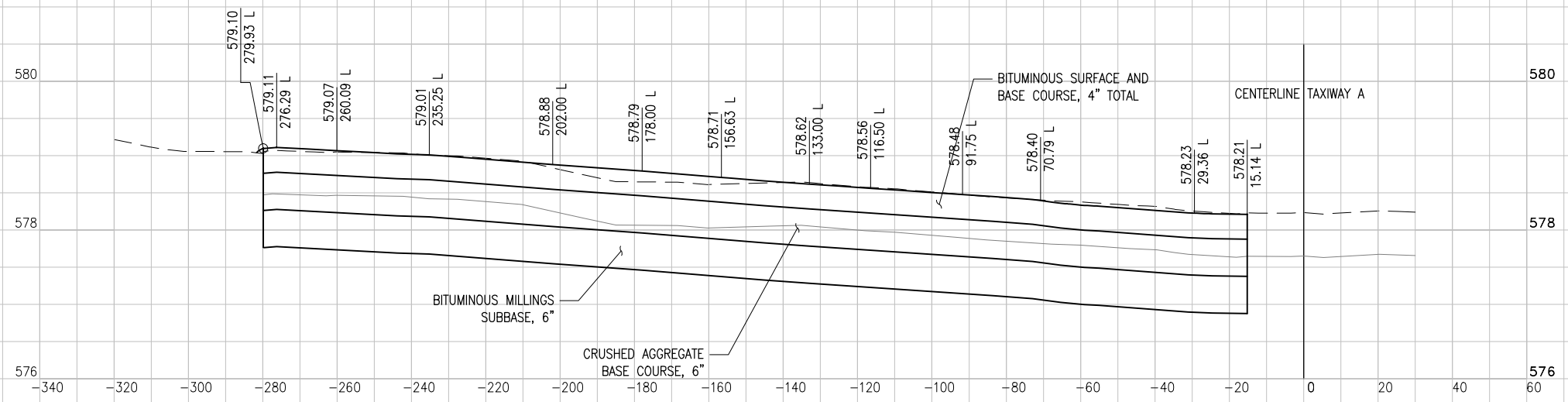
STA.
128+50



STA.
128+03



STA.
128+00

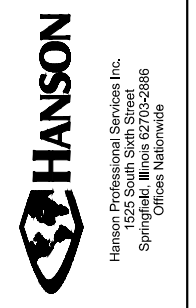


DATE	REVISION	BY

JOLIET REGIONAL AIRPORT
JOLIET PARK DISTRICT
JOLIET, ILLINOIS

IL PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

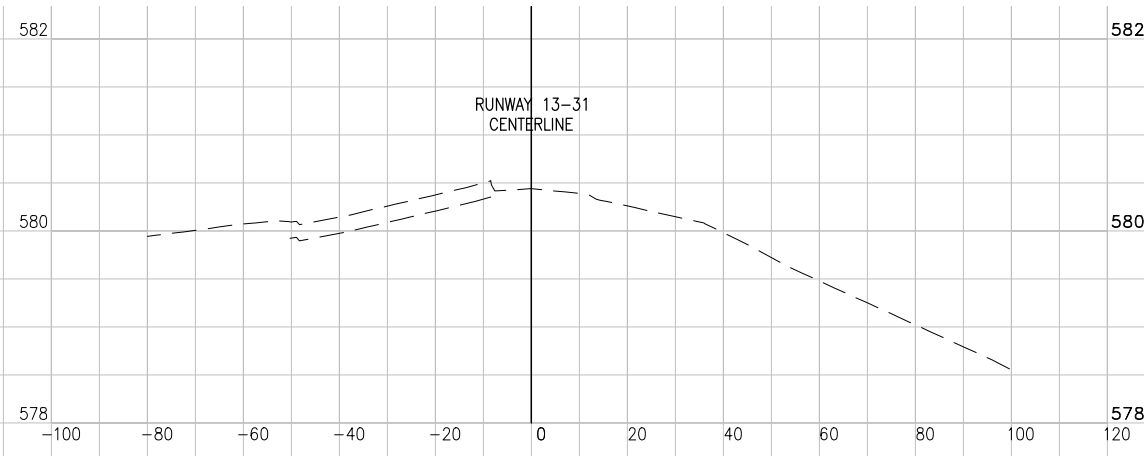
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LAYOUT	KBS	04/20/12	
DRAWN	KBS	04/20/12	
REVIEWED	RAW	4/20/12	



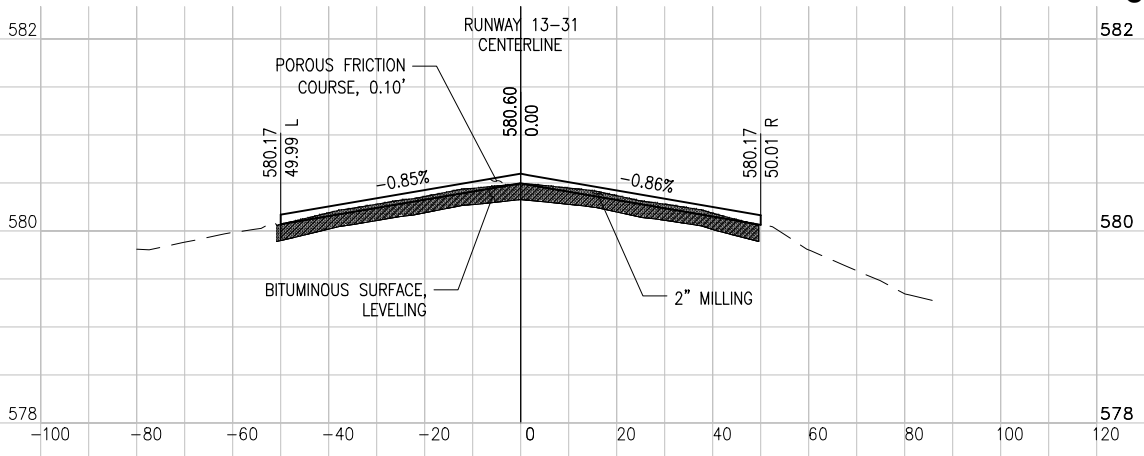
REHAB RUNWAY 13-31, REPLACE
 APRON, CONSTRUCT TAXIWAY A1

APRON CROSS SECTIONS
 STA. 128+00 TO STA. 128+50

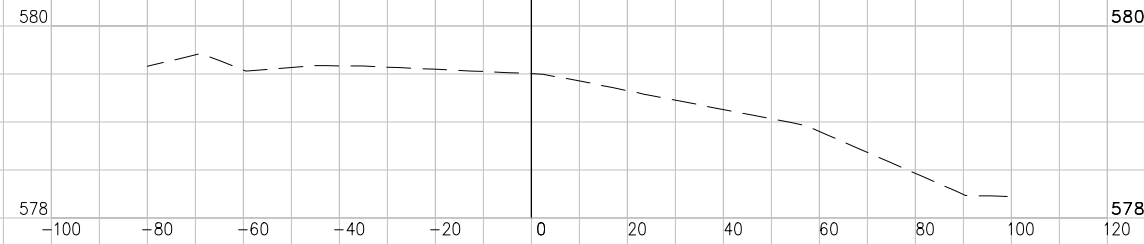
STA. 20+00



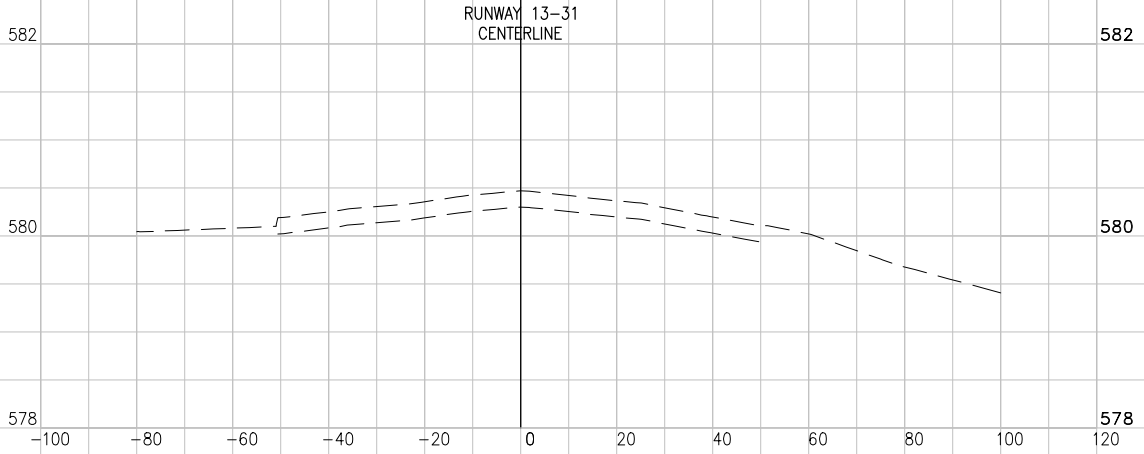
STA. 21+47



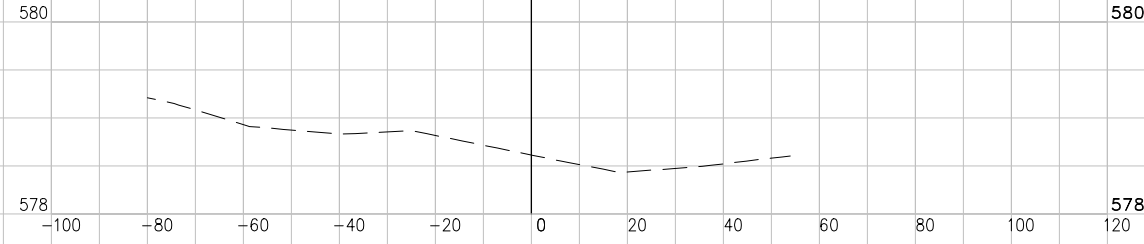
STA. 19+50



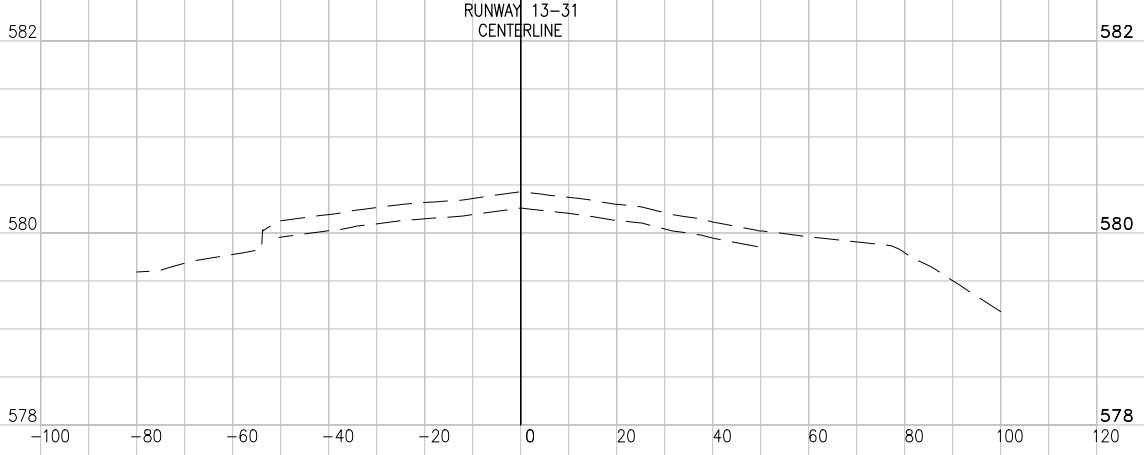
STA. 21+00



STA. 19+00



STA. 20+50

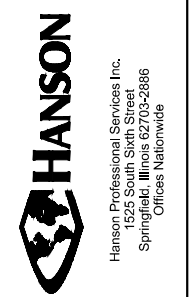


DATE	REVISION	BY

JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS

IL PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

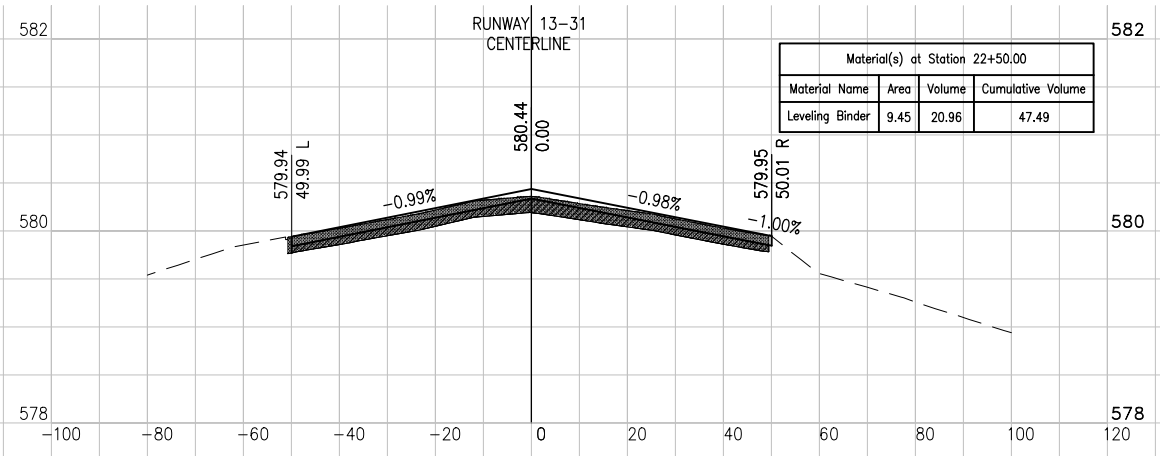
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Scale: H, 1" = 20' V, 1" = 1'	LAYOUT: KBS	04/20/12
	DRAWN: KBS	04/20/12
	REVIEWED: RAW	4/20/12



REHAB RUNWAY 13-31, REPLACE
 APRON, CONSTRUCT TAXIWAY A1

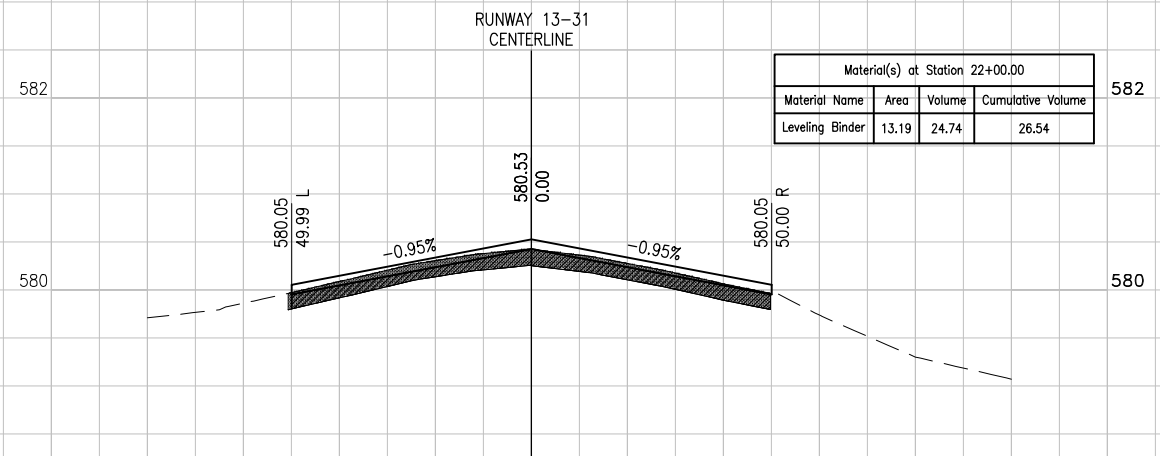
RUNWAY 13-31 CROSS
 SECTIONS STA. 19+00
 TO STA. 21+47

STA. 22+50



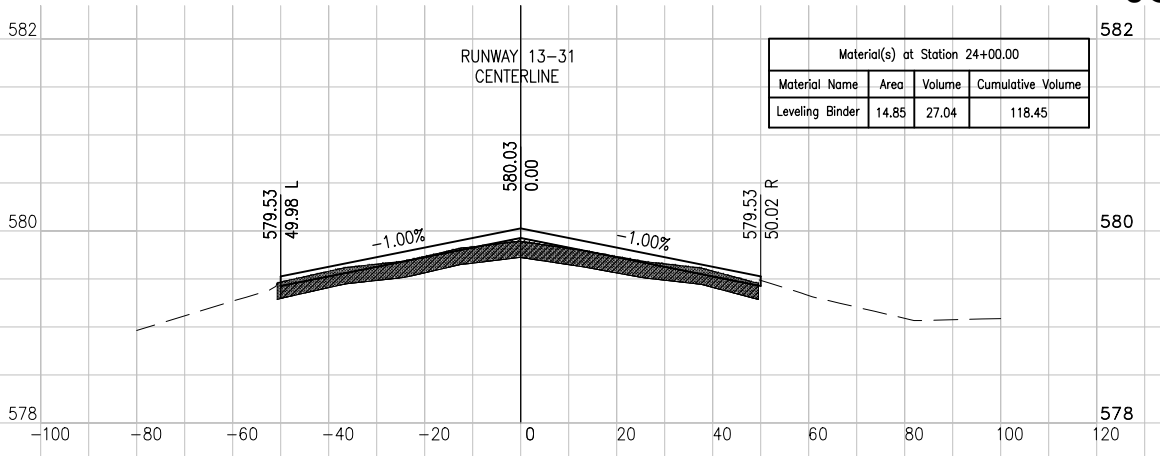
Material(s) at Station 22+50.00			
Material Name	Area	Volume	Cumulative Volume
Leveling Binder	9.45	20.96	47.49

STA. 22+00



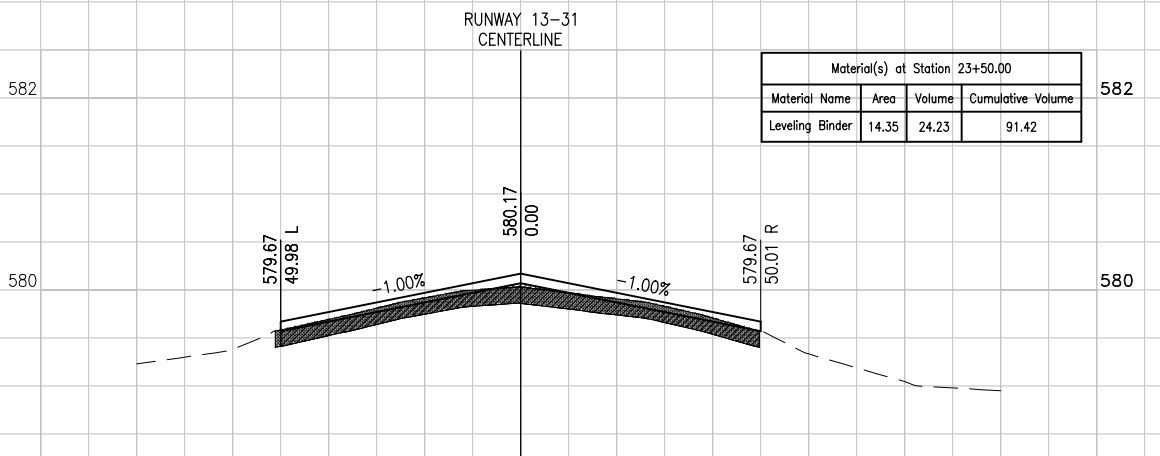
Material(s) at Station 22+00.00			
Material Name	Area	Volume	Cumulative Volume
Leveling Binder	13.19	24.74	26.54

STA. 24+00



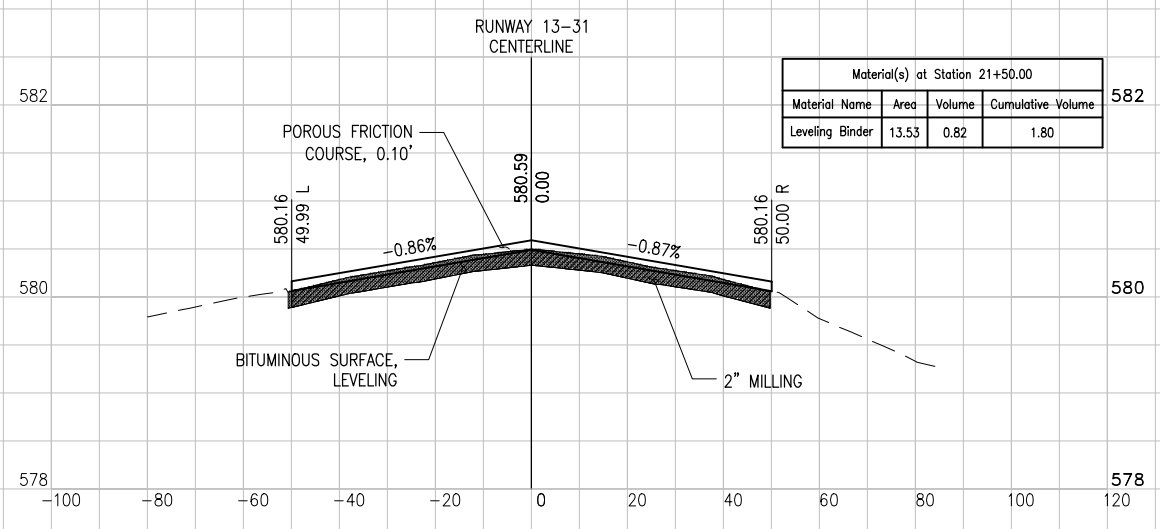
Material(s) at Station 24+00.00			
Material Name	Area	Volume	Cumulative Volume
Leveling Binder	14.85	27.04	118.45

STA. 23+50



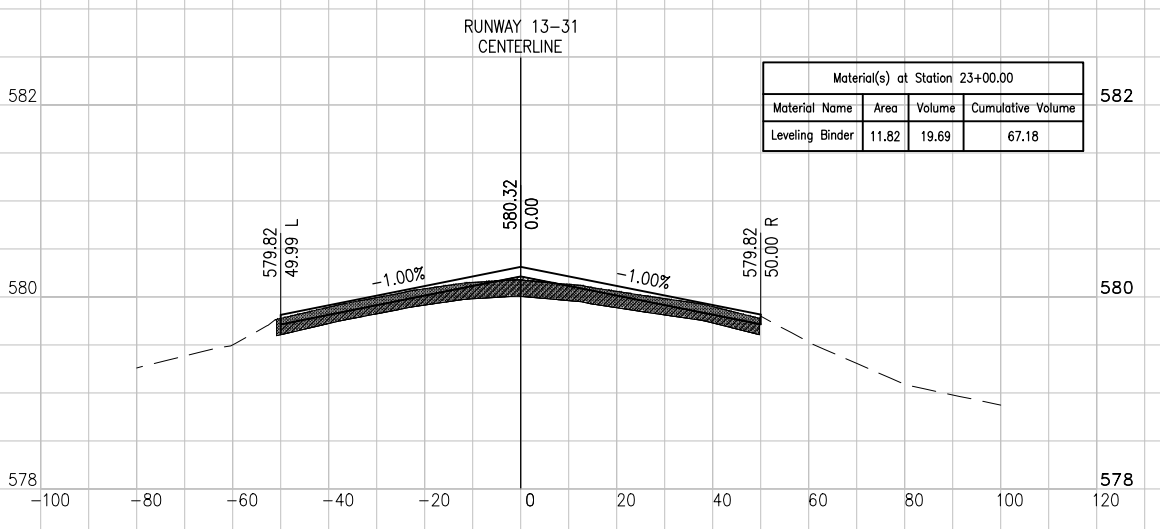
Material(s) at Station 23+50.00			
Material Name	Area	Volume	Cumulative Volume
Leveling Binder	14.35	24.23	91.42

STA. 21+50



Material(s) at Station 21+50.00			
Material Name	Area	Volume	Cumulative Volume
Leveling Binder	13.53	0.82	1.80

STA. 23+00



Material(s) at Station 23+00.00			
Material Name	Area	Volume	Cumulative Volume
Leveling Binder	11.82	19.69	67.18

DATE	REVISION	BY

JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS

IL PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

Hanson Project No. 09A0152D_0001
 Filename: R-301XS-RWY.DWG
 Scale: H, 1" = 20' V, 1" = 1'
 Date: 5/14/12

LAYOUT	KBS	04/20/12
DRAWN	KBS	04/20/12
REVIEWED	RAW	4/20/12

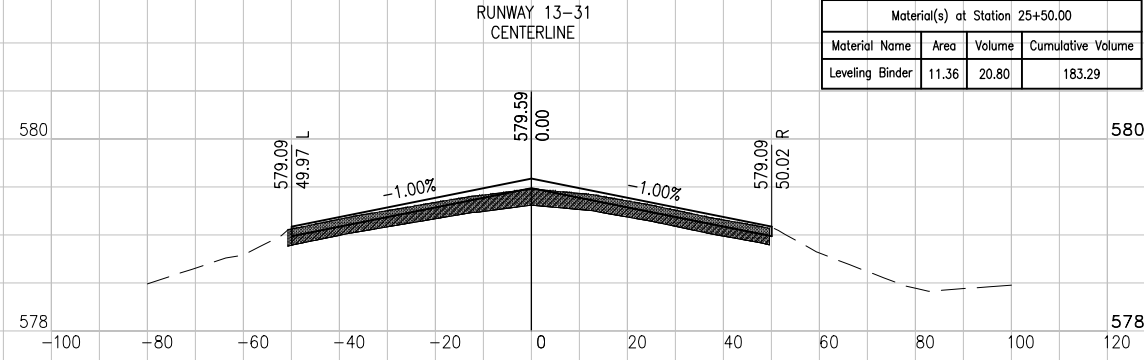


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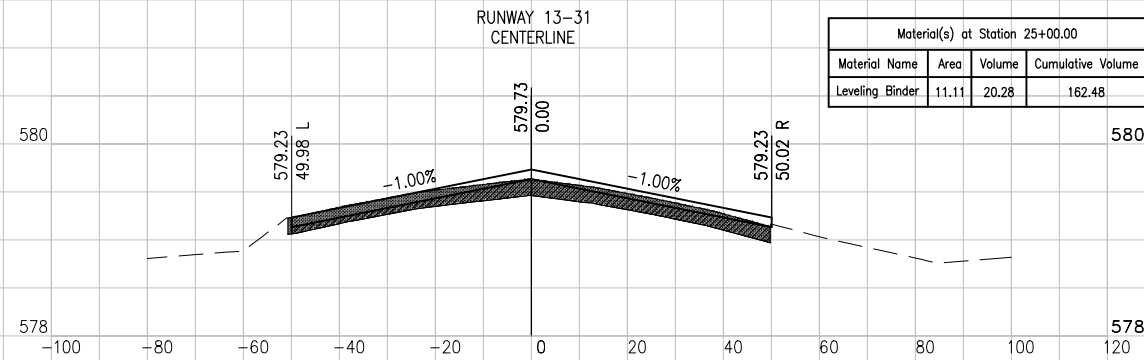
REHAB RUNWAY 13-31, REPLACE
 APRON, CONSTRUCT TAXIWAY A1
 RUNWAY 13-31 CROSS
 SECTIONS STA. 21+00
 TO STA. 24+00

MAY 14, 2012 12:08 PM SCHME01296
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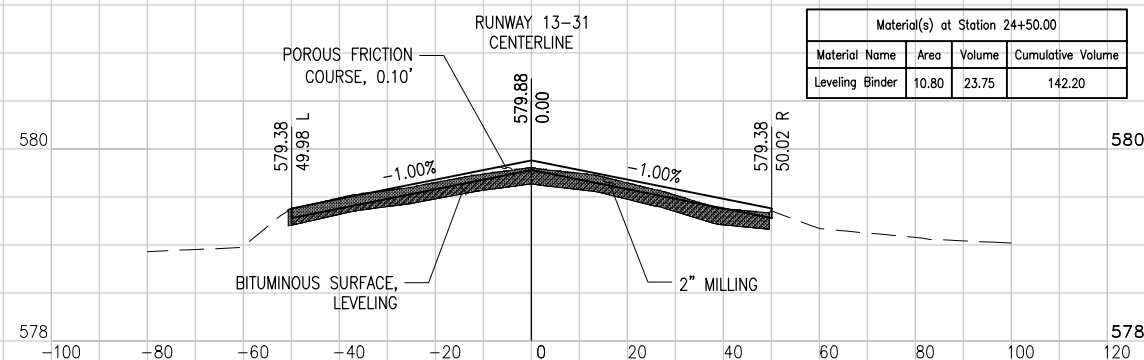
STA. 25+50



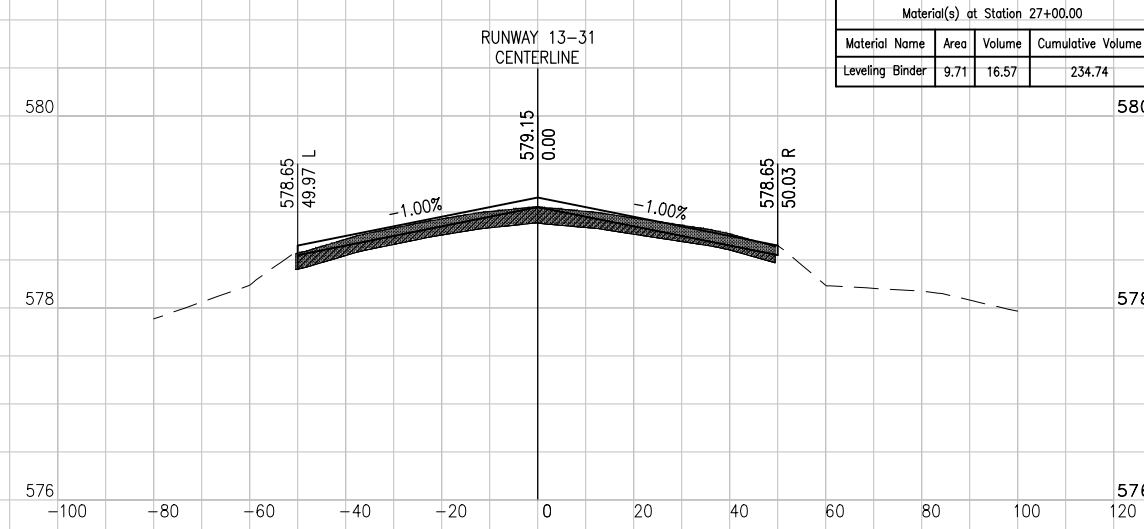
STA. 25+00



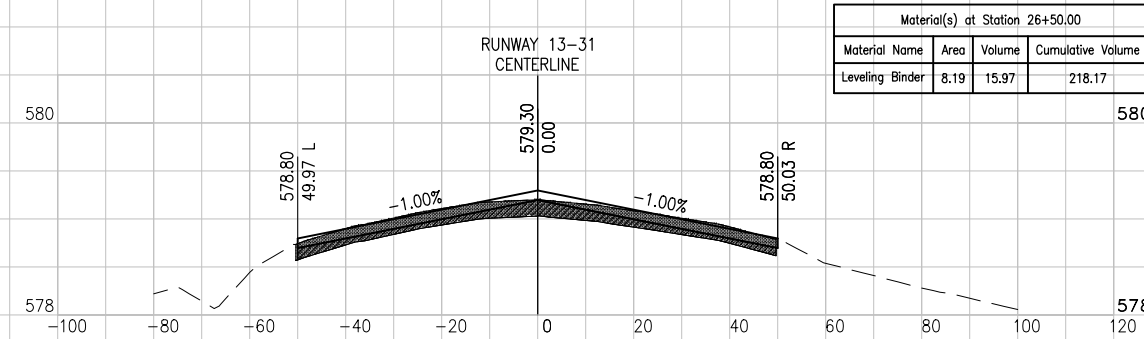
STA. 24+50



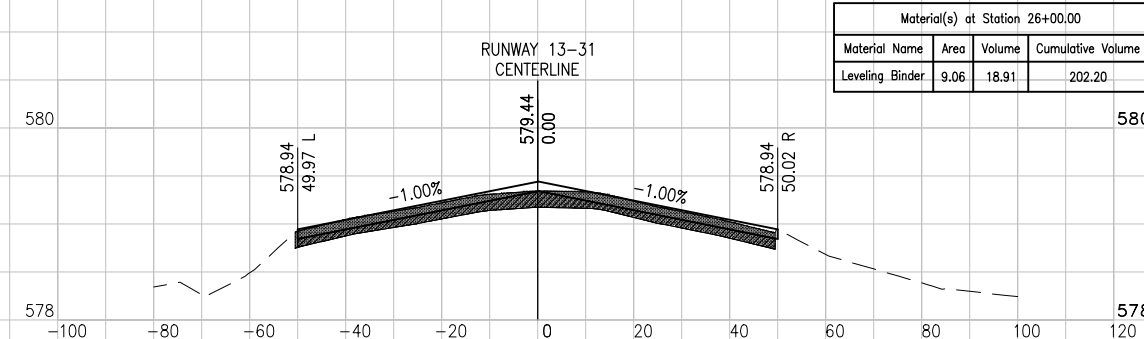
STA. 27+00



STA. 26+50



STA. 26+00

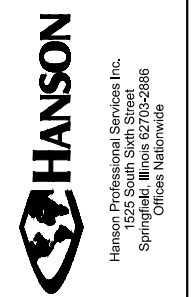


DATE	REVISION	BY

**JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS**

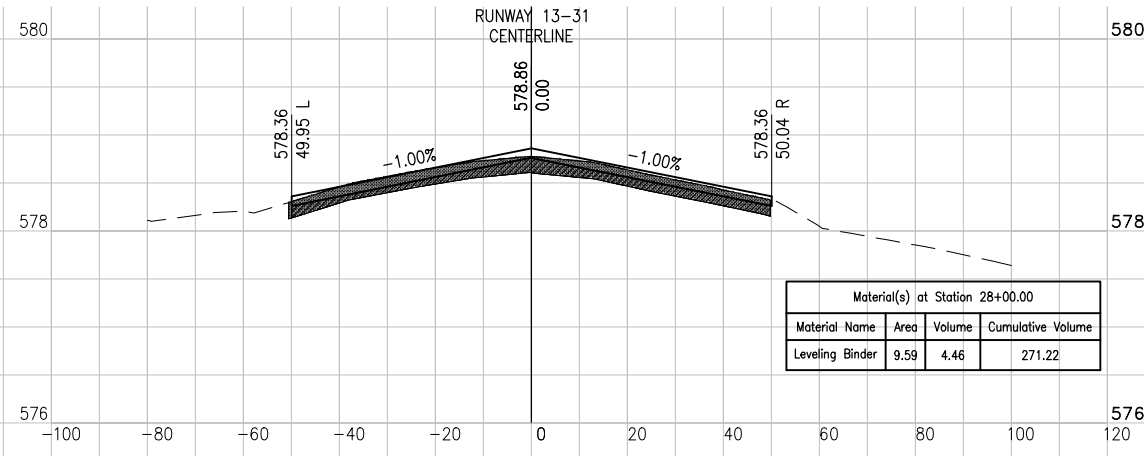
IL PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

Project No.	File Name	Scale	Date	LAYOUT	DRAWN	REVIEWED
09A0152D_0001	R-301XS-RWY.DWG	H, 1" = 20' V, 1" = 1'	5/14/12	KBS	KBS	RAW



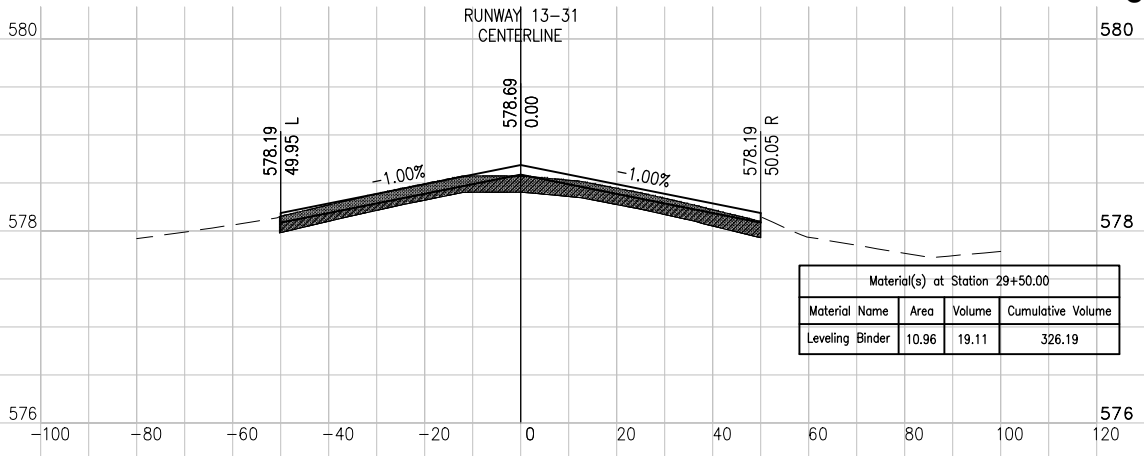
REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1
 RUNWAY 13-31 CROSS SECTIONS STA. 24+50 TO STA. 27+00

STA. 28+00



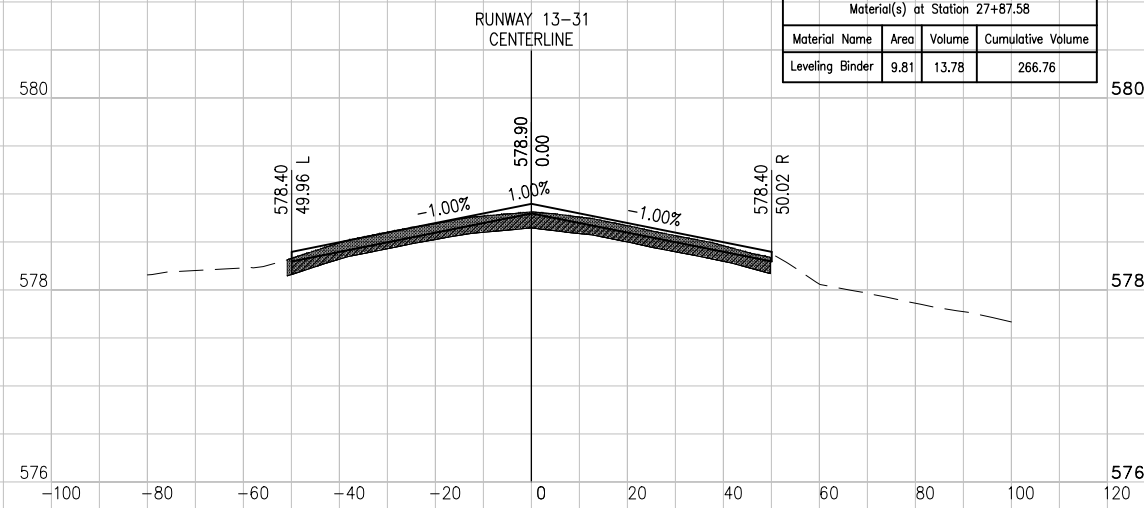
Material(s) at Station 28+00.00			
Material Name	Area	Volume	Cumulative Volume
Leveling Binder	9.59	4.46	271.22

STA. 29+50



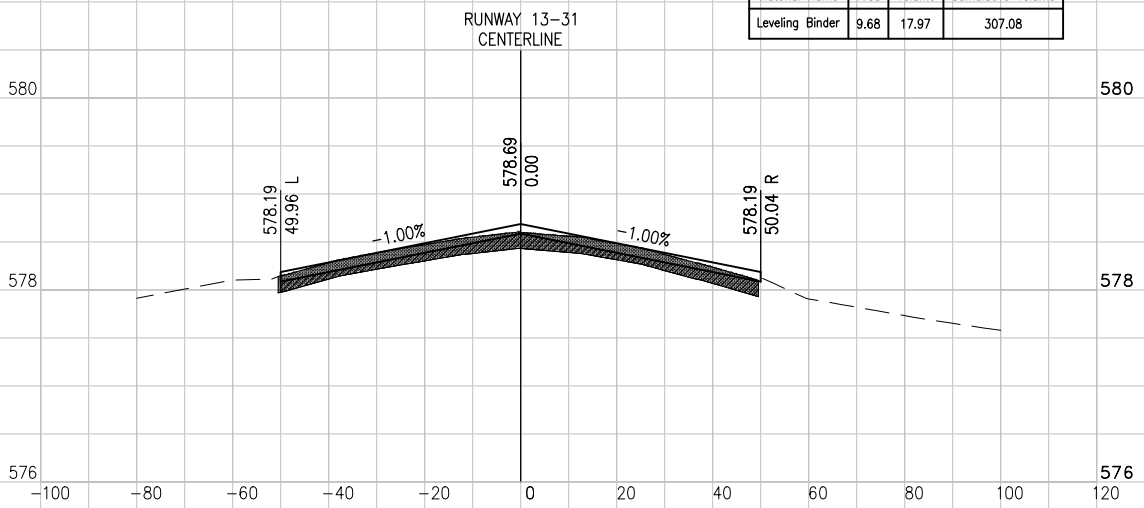
Material(s) at Station 29+50.00			
Material Name	Area	Volume	Cumulative Volume
Leveling Binder	10.96	19.11	326.19

STA. 27+88



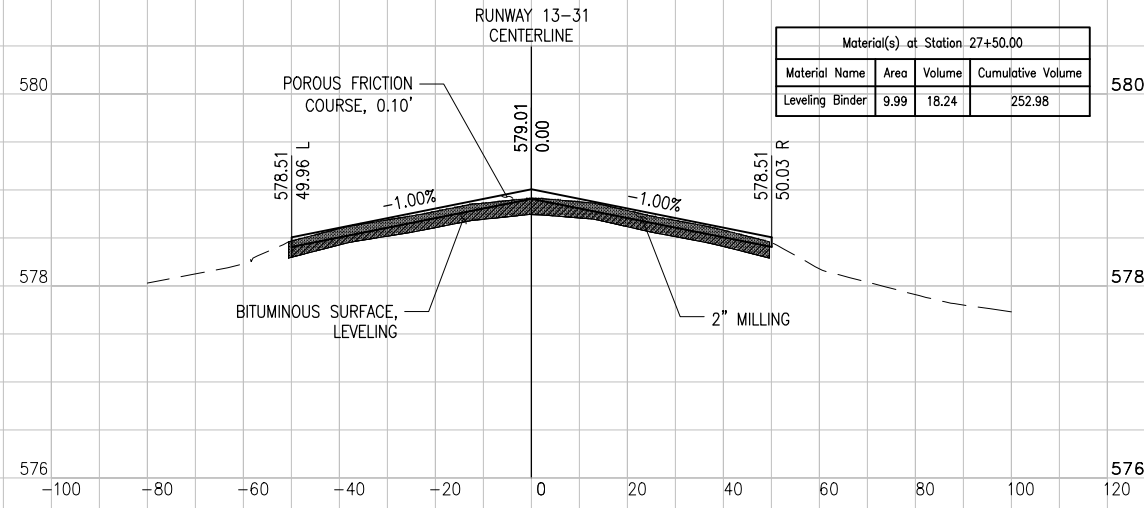
Material(s) at Station 27+87.58			
Material Name	Area	Volume	Cumulative Volume
Leveling Binder	9.81	13.78	266.76

STA. 29+00



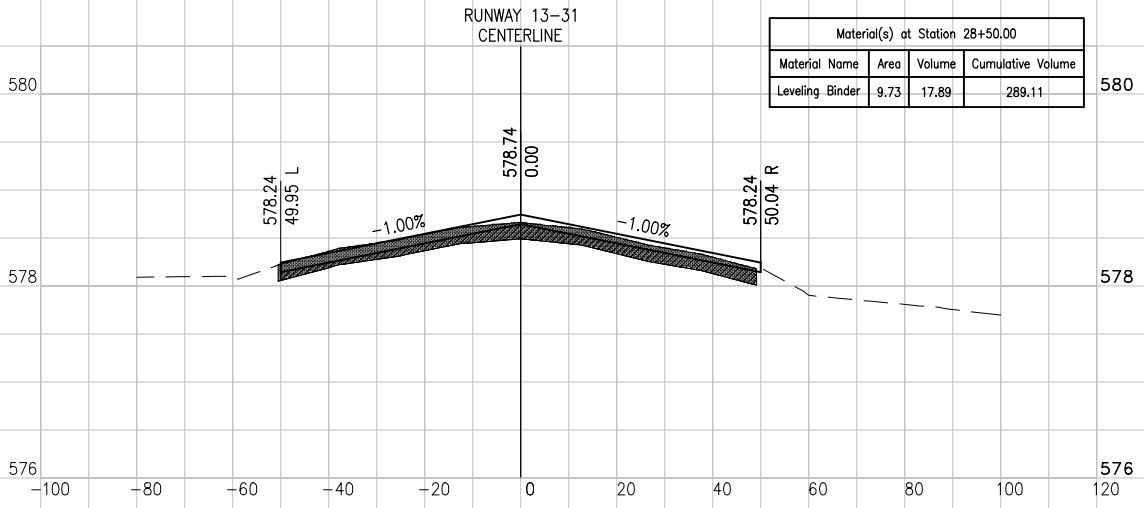
Material(s) at Station 29+00.00			
Material Name	Area	Volume	Cumulative Volume
Leveling Binder	9.68	17.97	307.08

STA. 27+50



Material(s) at Station 27+50.00			
Material Name	Area	Volume	Cumulative Volume
Leveling Binder	9.99	18.24	252.98

STA. 28+50



Material(s) at Station 28+50.00			
Material Name	Area	Volume	Cumulative Volume
Leveling Binder	9.73	17.89	289.11

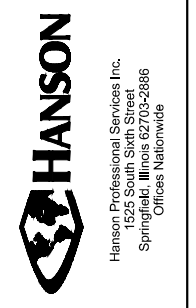
DATE	REVISION	BY

JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS

IL PROJ.: JOT-4043
 A.I.P. PROJ.: 3-17-0056-B6

Project No.	File Name	Scale	Date
09A0152D_0001	R-301XS-RWY.DWG	H, 1" = 20' V, 1" = 1'	5/14/12

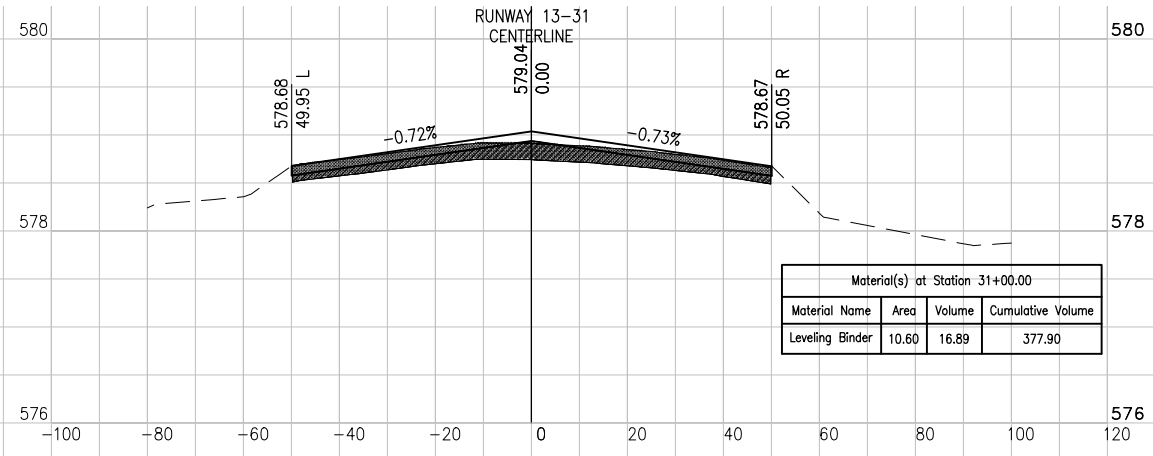
LAYOUT	DATE	BY
	04/20/12	KBS
DRAWN	04/20/12	KBS
REVIEWED	4/20/12	RAW



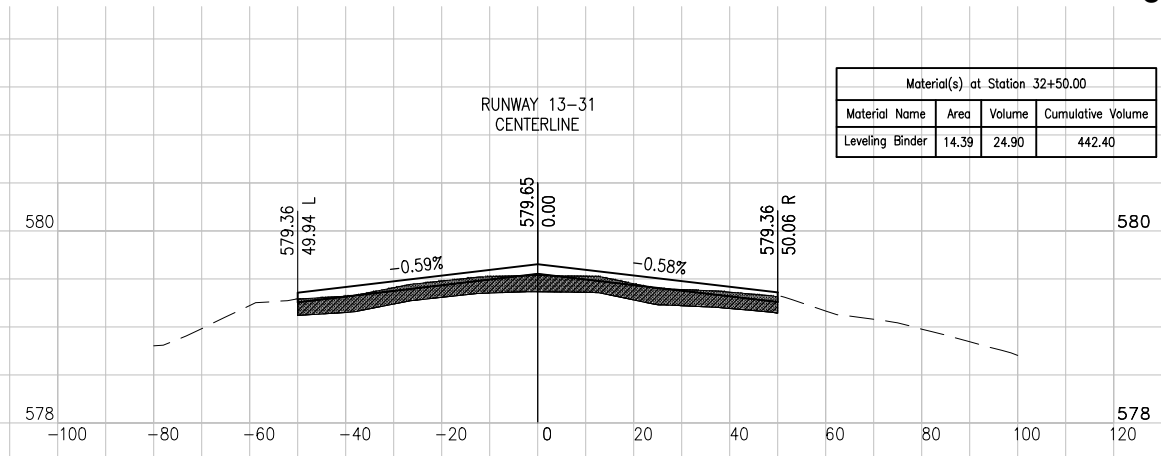
REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

RUNWAY 13-31 CROSS SECTIONS STA. 27+50 TO STA. 29+50

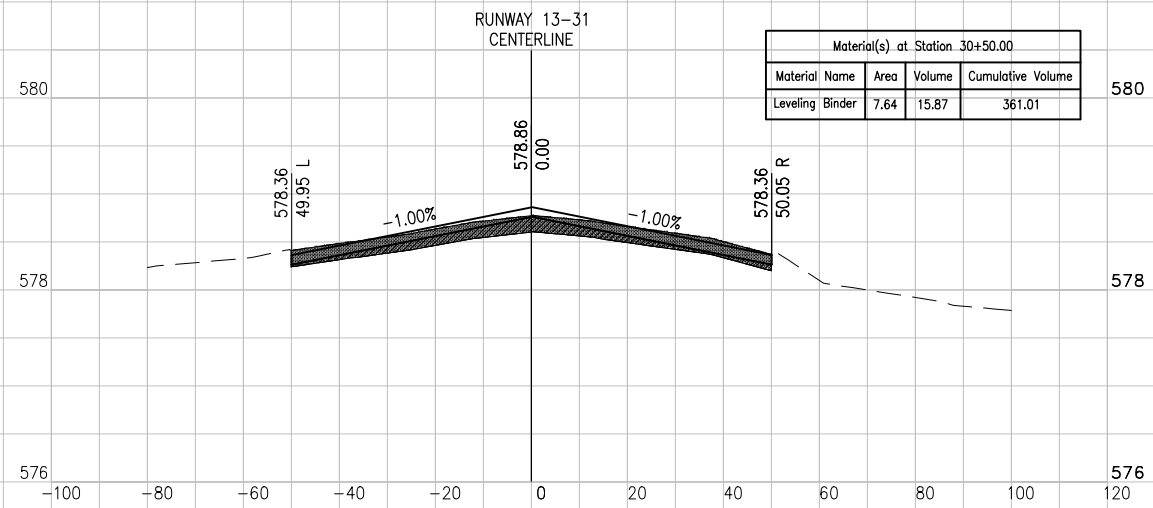
STA. 31+00



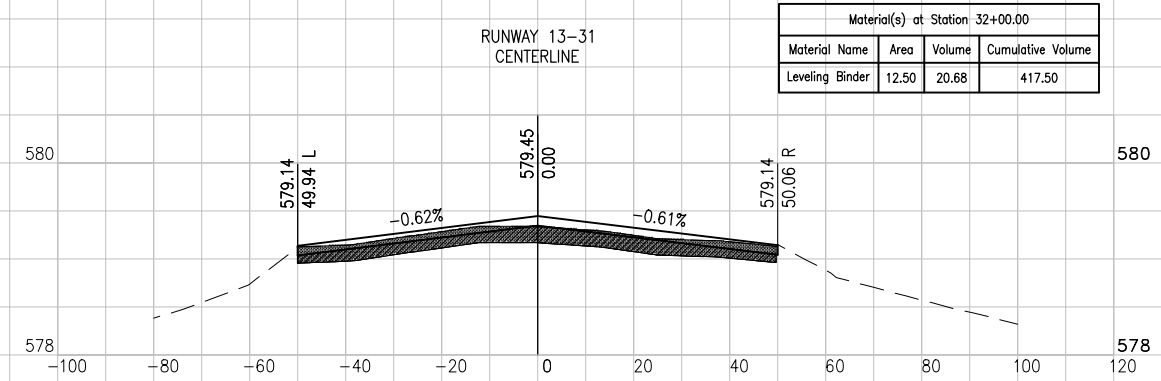
STA. 32+50



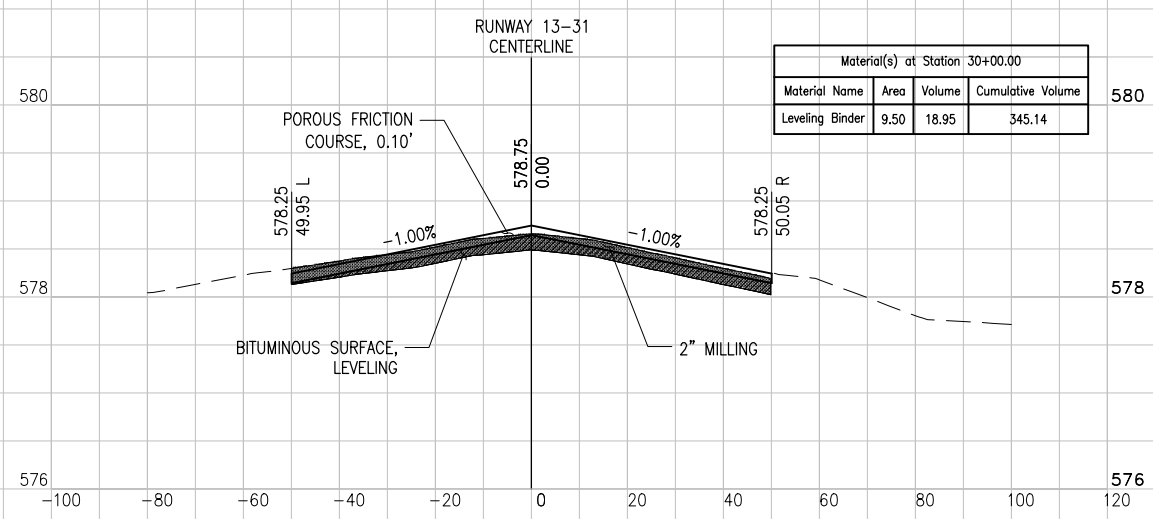
STA. 30+50



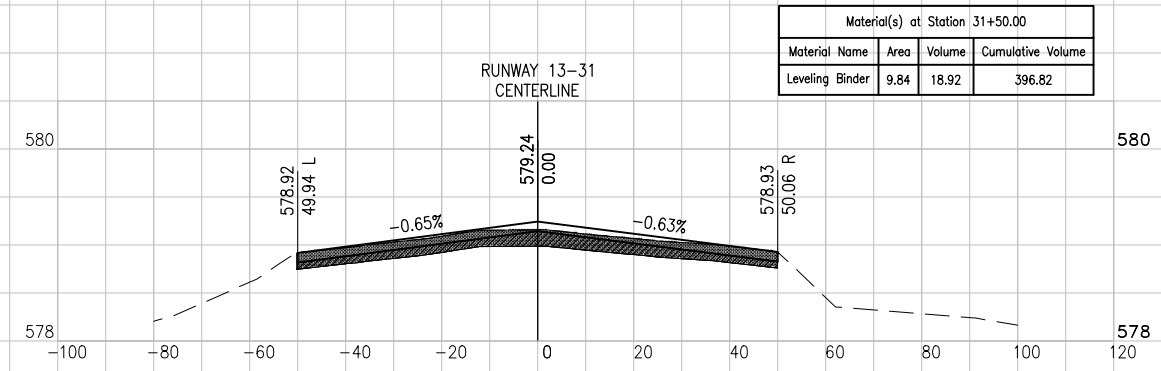
STA. 32+00



STA. 30+00



STA. 31+50

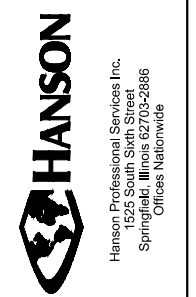


DATE	REVISION	BY

JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS

IL PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

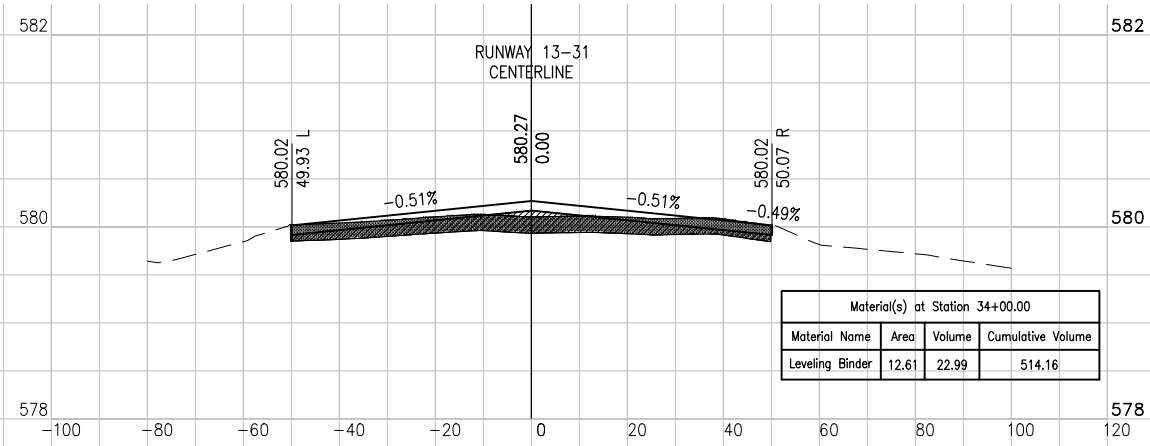
Project No.	Scale	Date	LAYOUT	DATE
09A0152D_0001	H, 1" = 20' V, 1" = 1'	5/14/12	KBS	04/20/12
R-301XS-RWY.DWG			KBS	04/20/12
			RAW	4/20/12



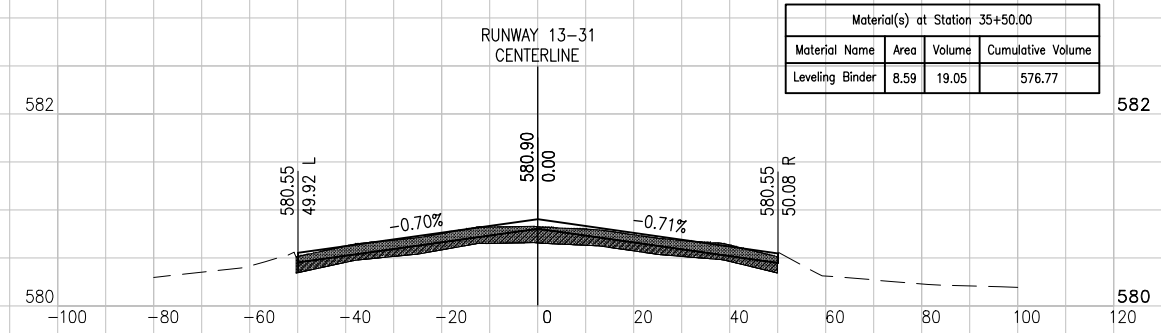
REHAB RUNWAY 13-31, REPLACE
 APRON, CONSTRUCT TAXIWAY A1

RUNWAY 13-31 CROSS
 SECTIONS STA. 30+00
 TO STA. 32+50

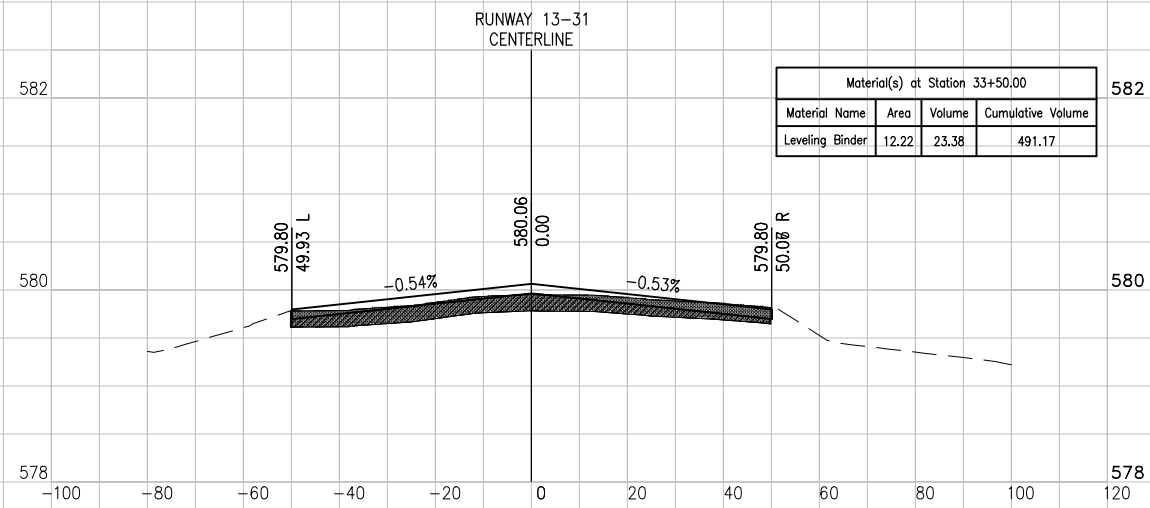
STA. 34+00



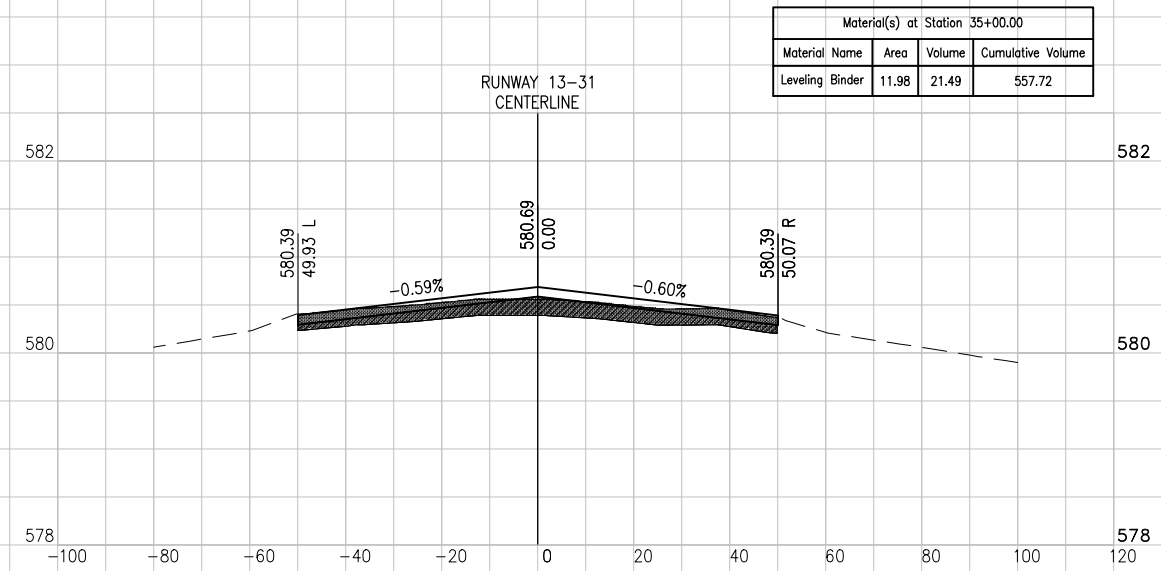
STA. 35+50



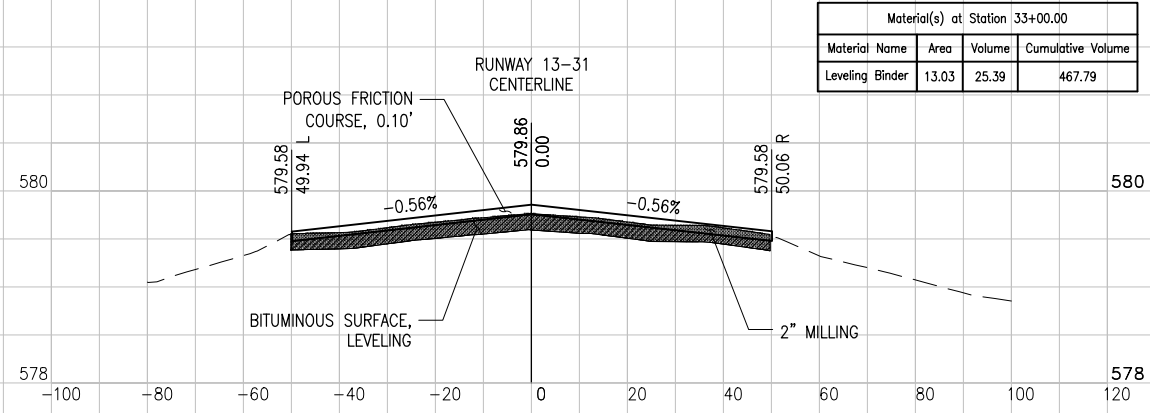
STA. 33+50



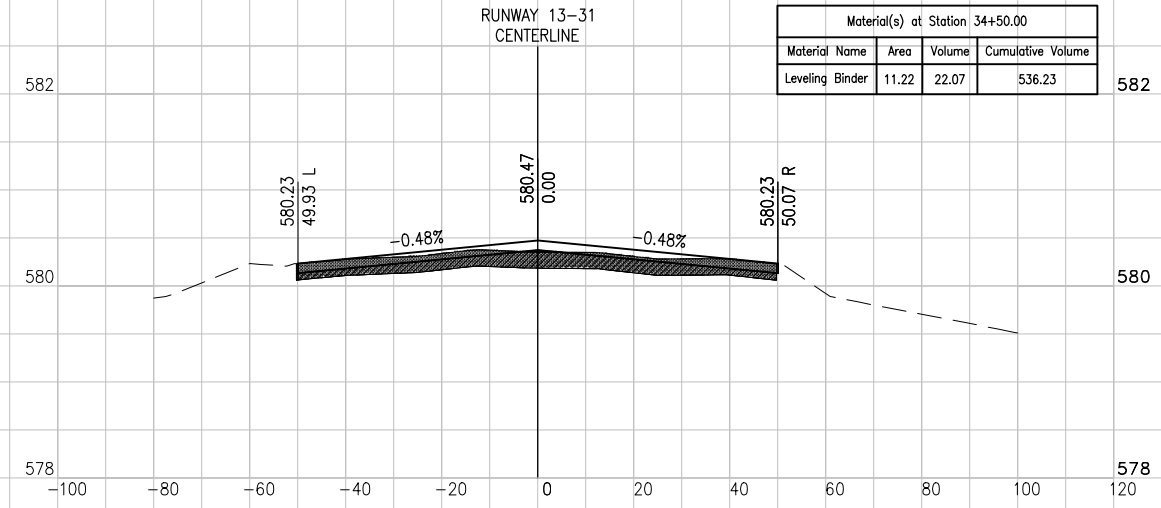
STA. 35+00



STA. 33+00



STA. 34+50



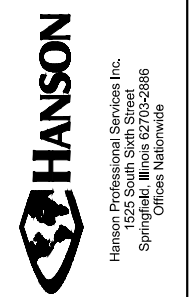
DATE	REVISION	BY

JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS

IL. PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

Project No.	File Name	Scale	Date
09A0152D_0001	R-301XS-RWY.DWG	H, 1" = 20' V, 1" = 1'	5/14/12

LAYOUT	DATE	BY
DRAWN	04/20/12	KBS
REVIEWED	04/20/12	RAW

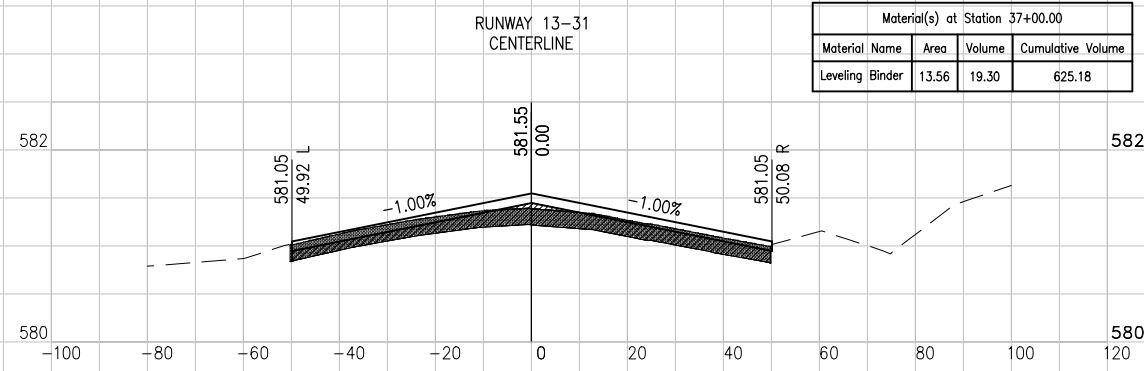


REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

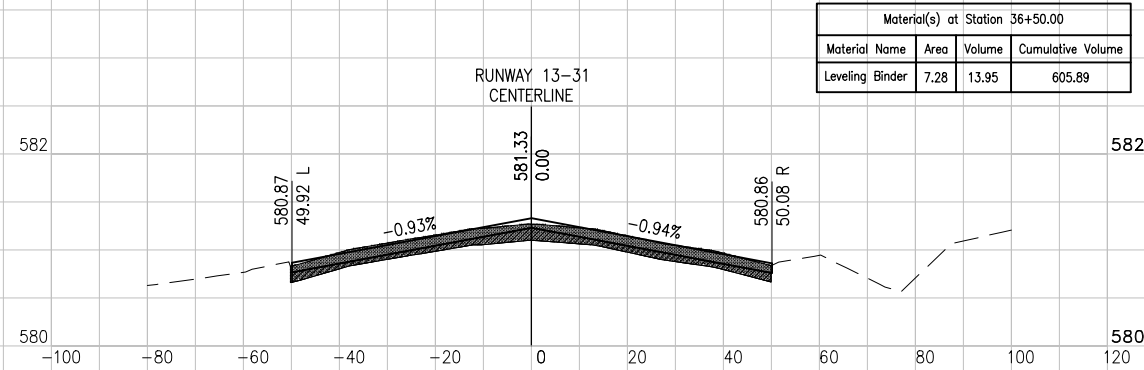
RUNWAY 13-31 CROSS SECTIONS STA. 33+00 TO STA. 35+50

MAY 14, 2012 12:08 PM SCHME01296
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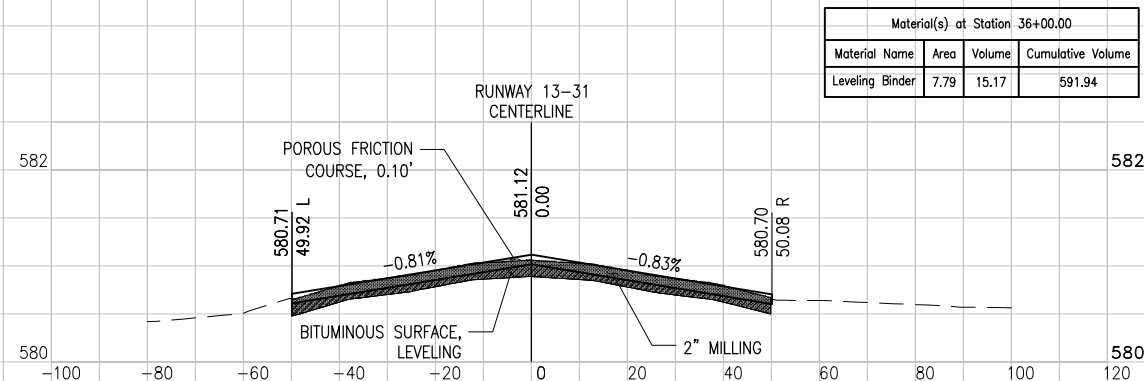
STA. 37+00



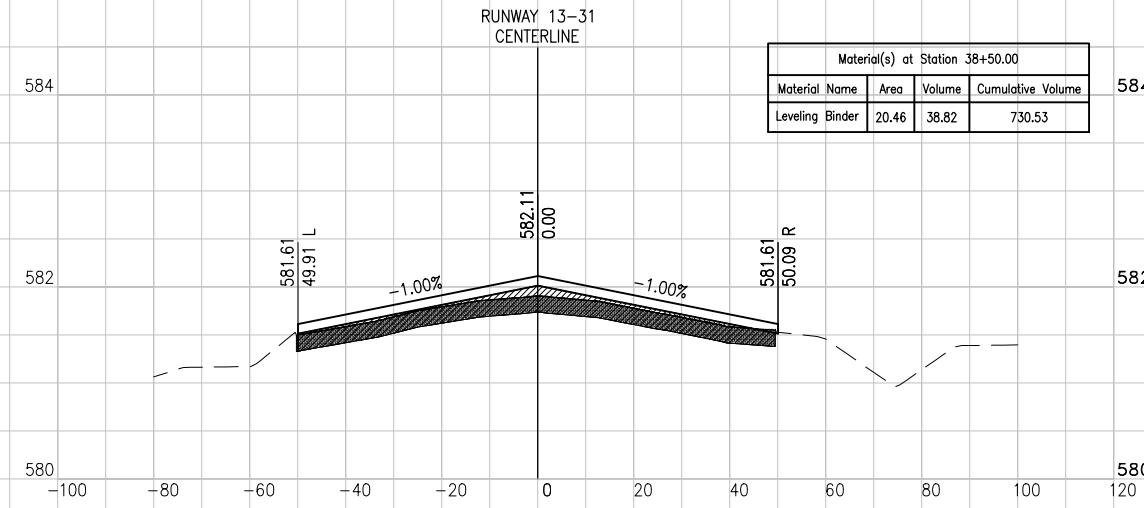
STA. 36+50



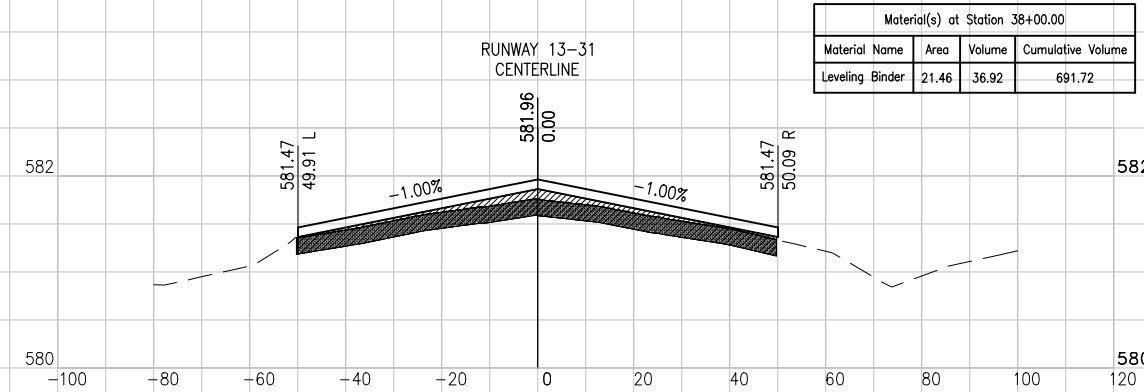
STA. 36+00



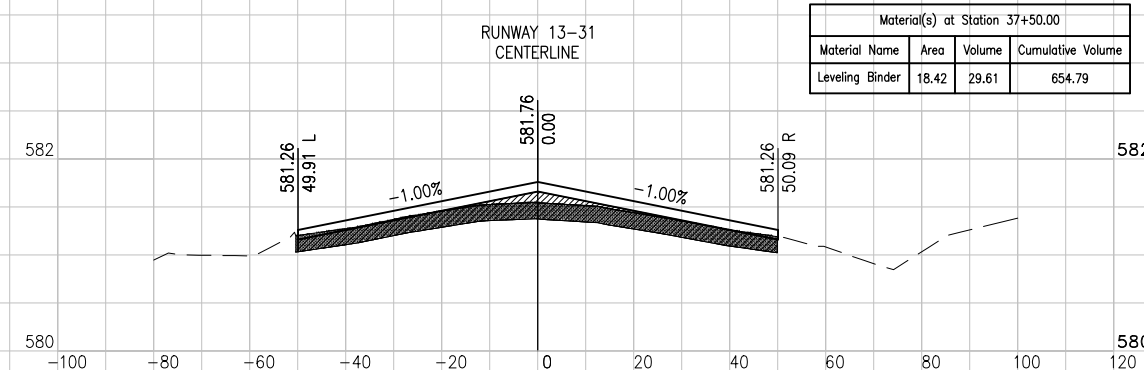
STA. 38+50



STA. 38+00



STA. 37+50

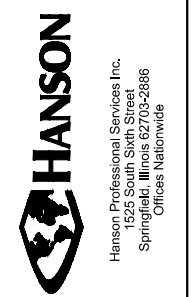


DATE	REVISION	BY

**JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS**

IL PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

Hanson Project No. 09A0152D_0001 Filename: R-301XS-RWY.DWG Scale: H, 1" = 20' V, 1" = 1' Date: 5/14/12			
LAYOUT	KBS	04/20/12	
DRAWN	KBS	04/20/12	
REVIEWED	RAW	4/20/12	

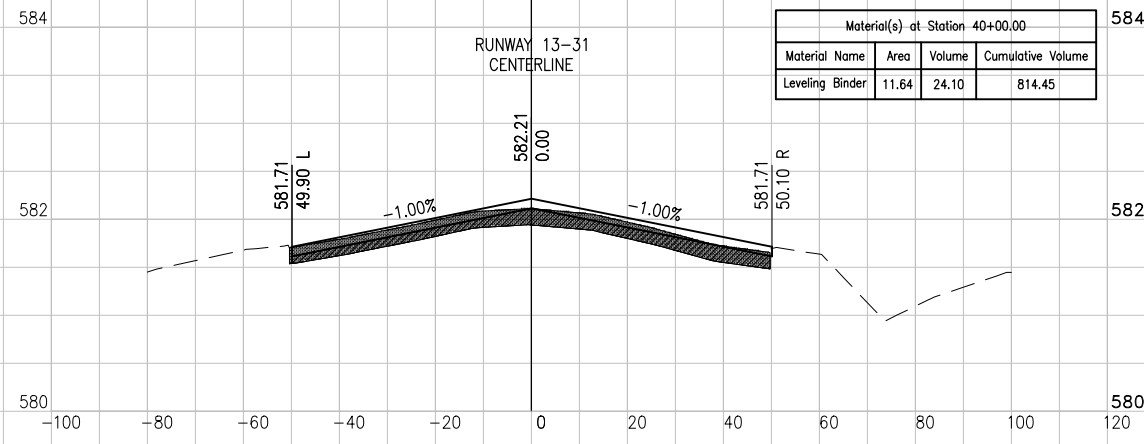


REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1
 RUNWAY 13-31 CROSS SECTIONS STA. 36+00 TO STA. 38+50

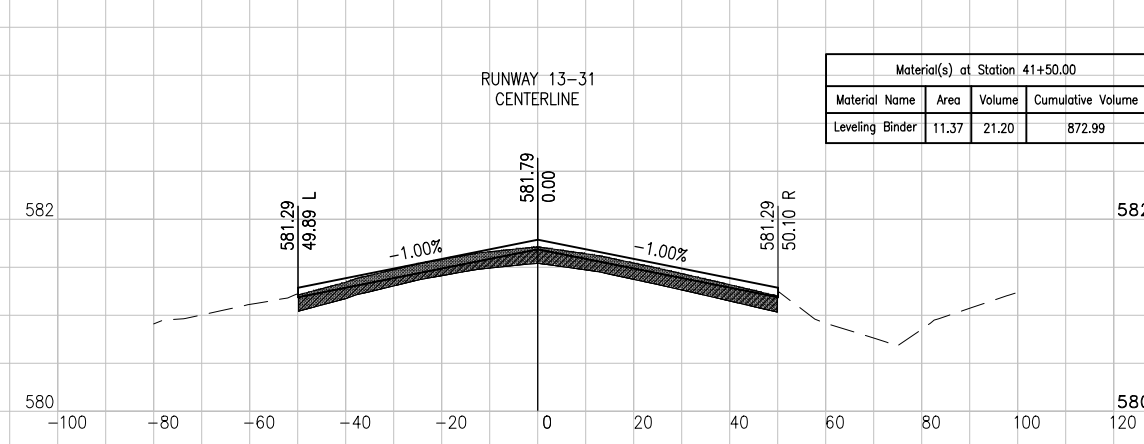
MAY 14, 2012 12:08 PM SCHME01296
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JO021

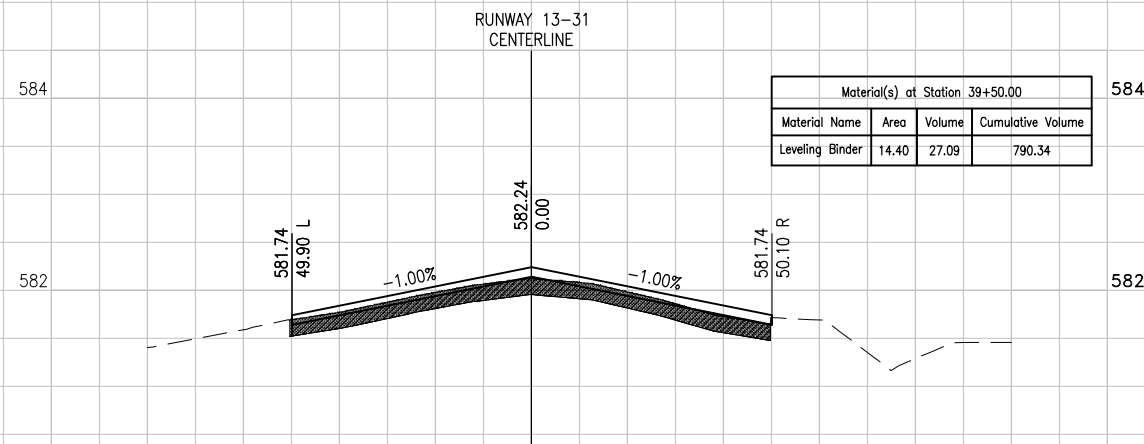
STA. 40+00



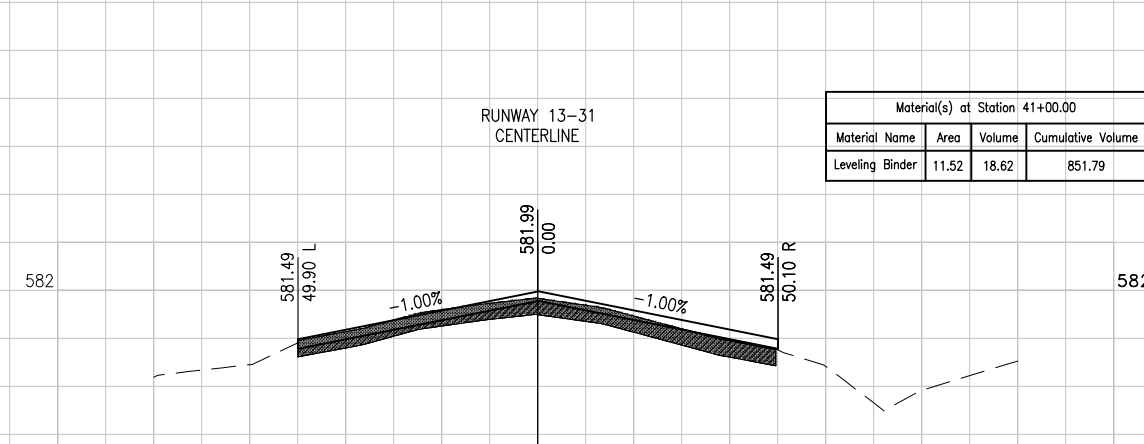
STA. 41+50



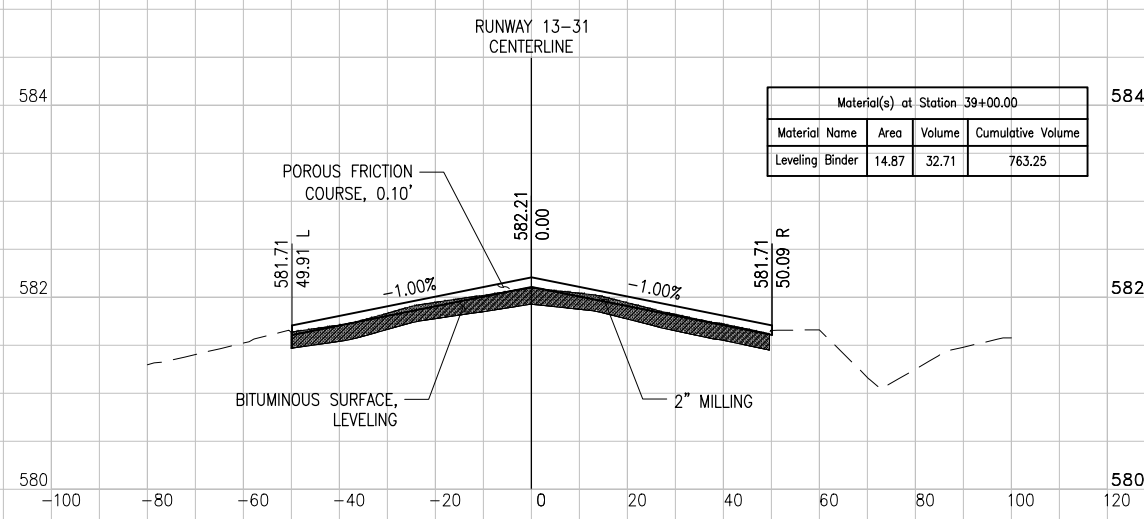
STA. 39+50



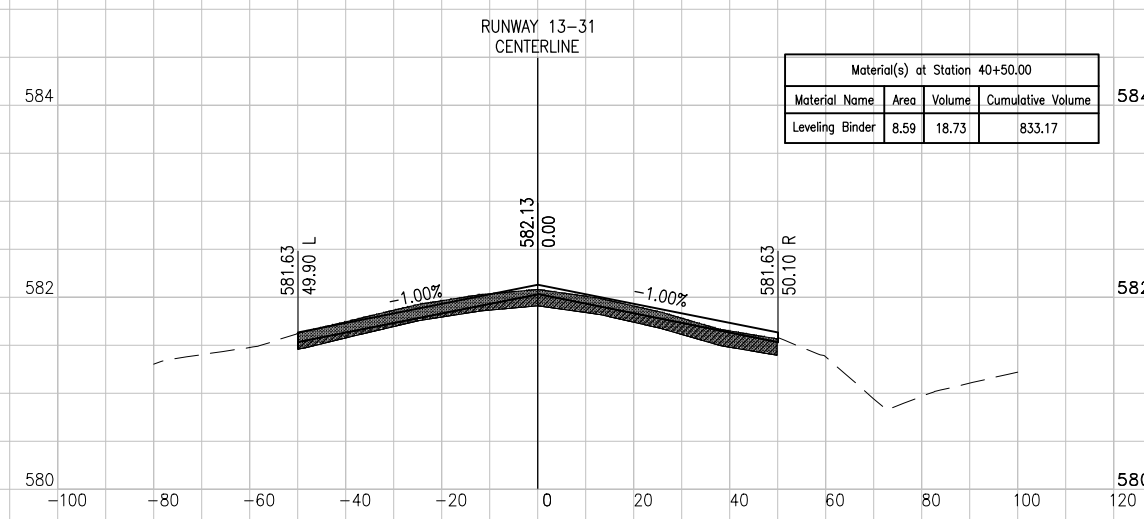
STA. 41+00



STA. 39+00



STA. 40+50

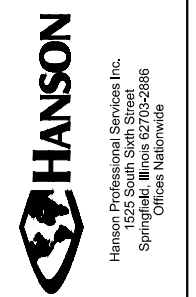


DATE	REVISION	BY

JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS

A.I.P. PROJ.: 3-17-0056-B6
 I.L. PROJ.: JOT-4043

Hanson Project No.	09A0152D_0001
Filename	R-301XS-RWY.DWG
Scale	H, 1" = 20' V, 1" = 1'
Date	5/14/12
LAYOUT	KBS 04/20/12
DRAWN	KBS 04/20/12
REVIEWED	RAW 4/20/12



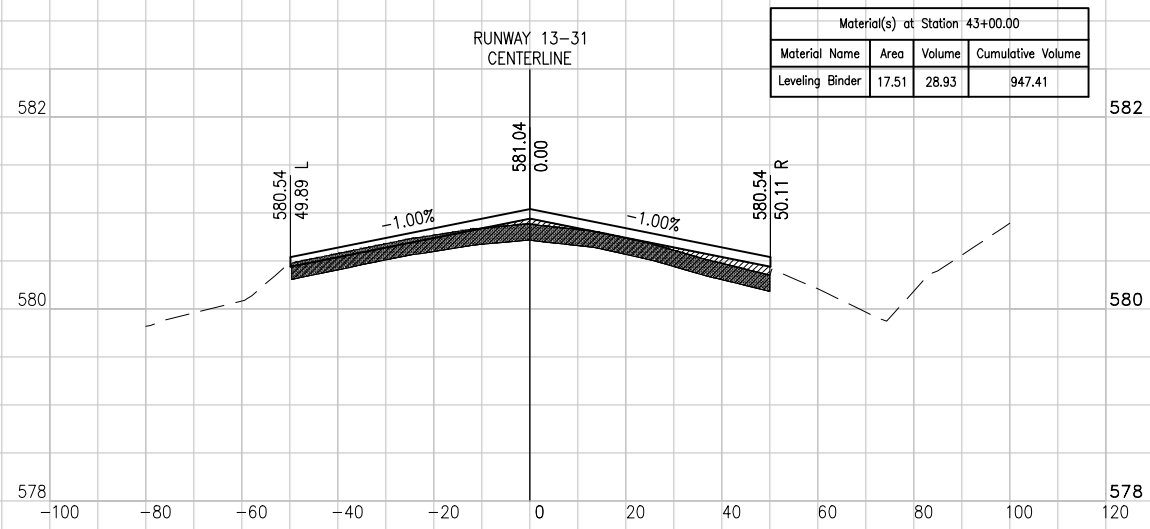
REHAB RUNWAY 13-31, REPLACE
 APRON, CONSTRUCT TAXIWAY A1

RUNWAY 13-31 CROSS
 SECTIONS STA. 39+00
 TO STA. 41+50

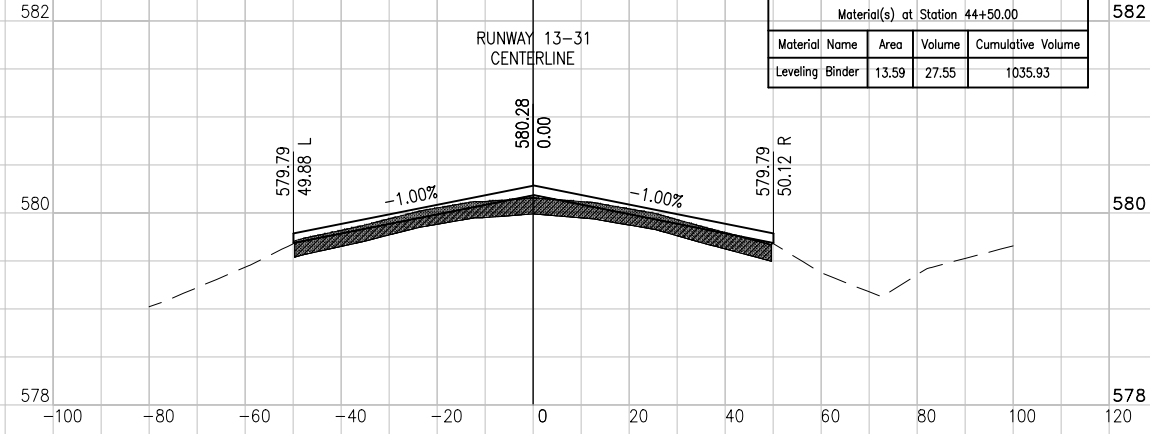
MAY 14, 2012 12:08 PM SCHMEIDT296
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JO021

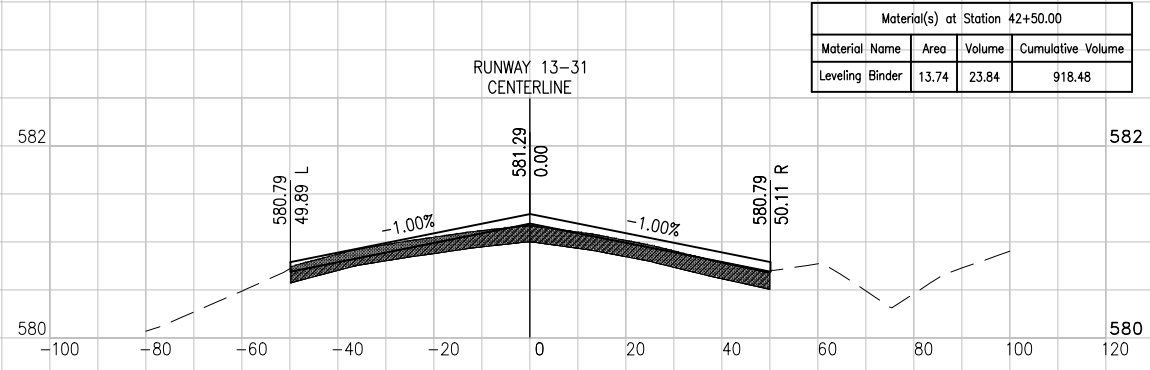
STA. 43+00



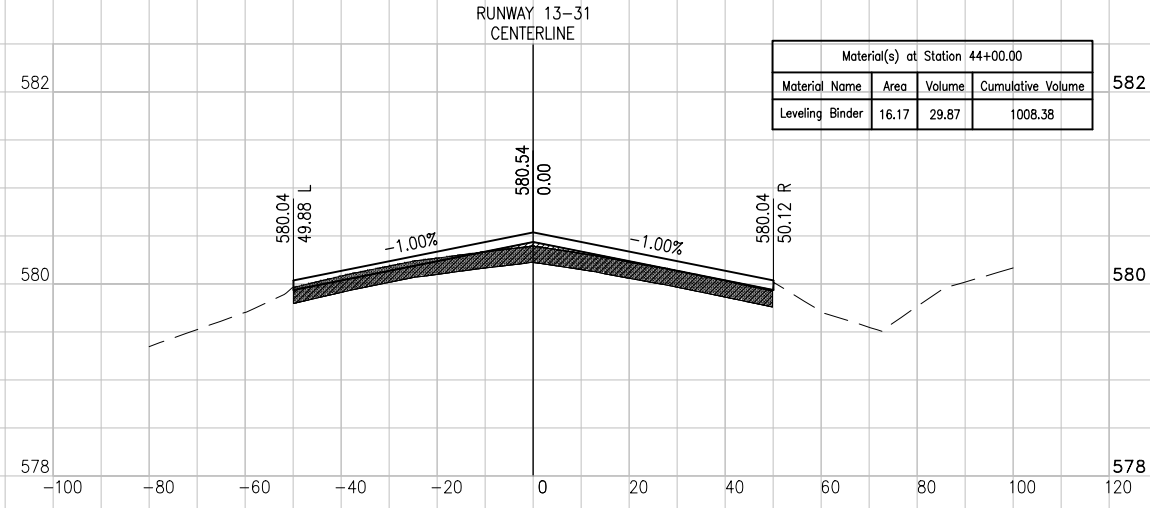
STA. 44+50



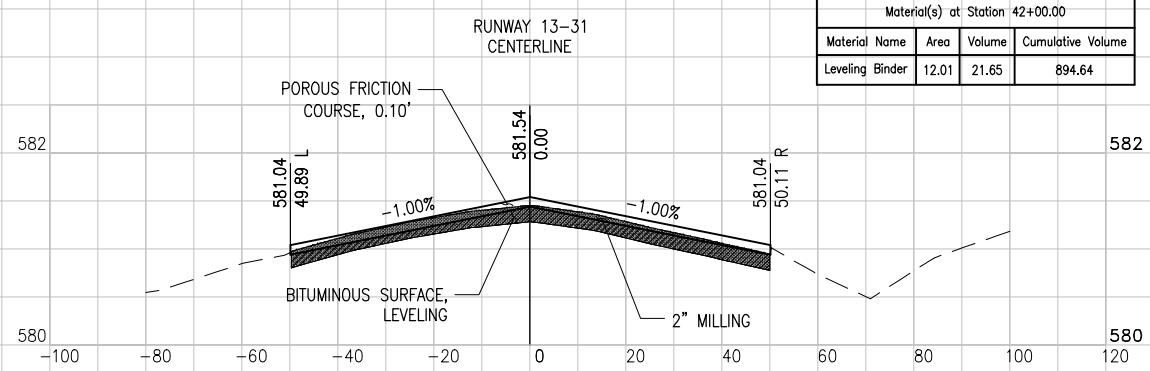
STA. 42+50



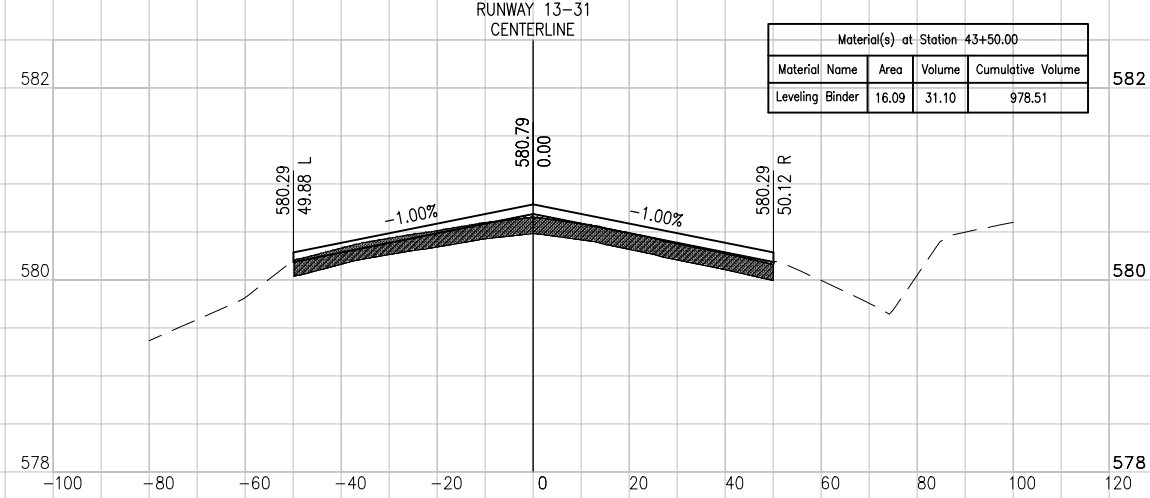
STA. 44+00



STA. 42+00



STA. 43+50

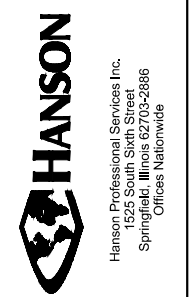


DATE	REVISION	BY

JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS

IL PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

PROJECT No.	DATE
09A0152D_0001	04/20/12
R-301XS-RWY.DWG	04/20/12
Scale: H, 1" = 20' V, 1" = 1'	
Date: 5/14/12	

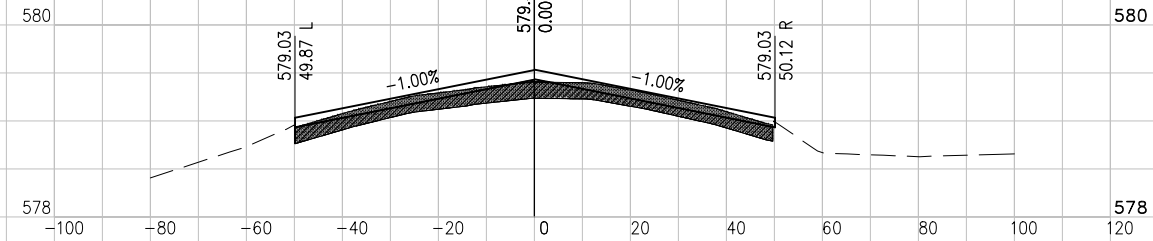


REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1
 RUNWAY 13-31 CROSS SECTIONS STA. 42+00 TO STA. 44+50

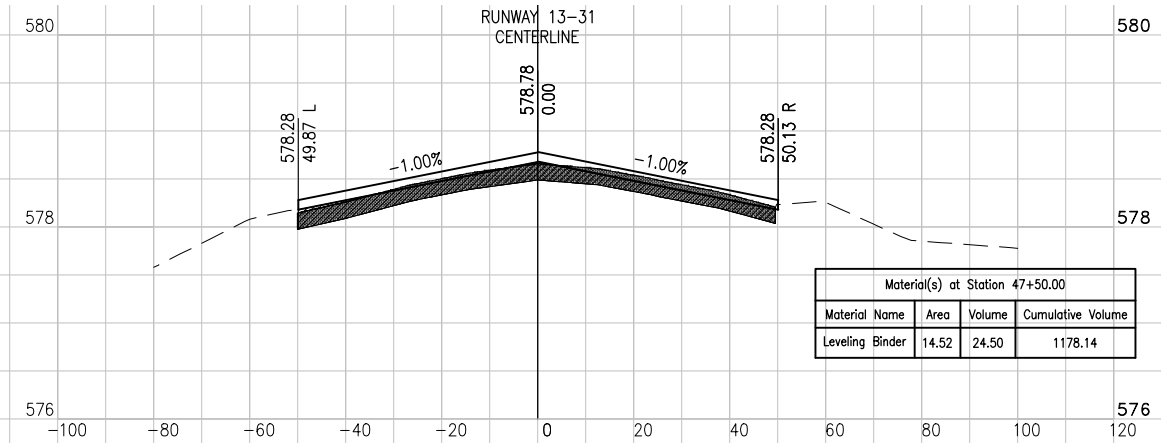
MAY 14, 2012 12:08 PM SCHME01296
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JO021

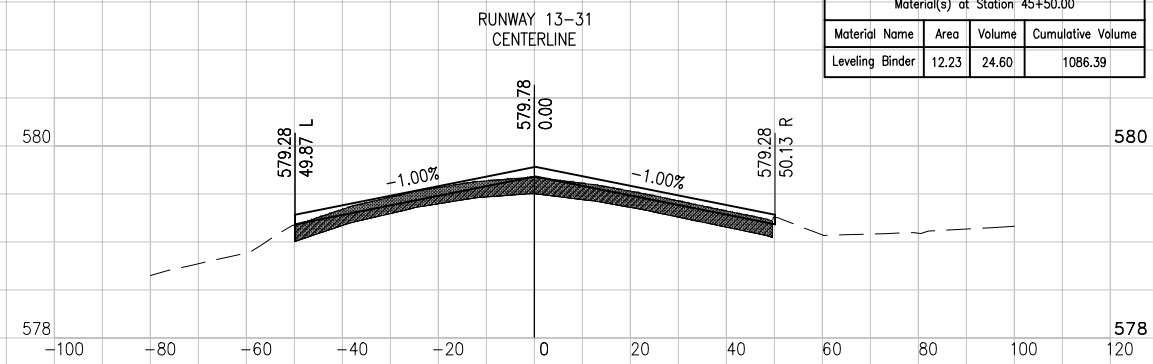
STA.
46+00



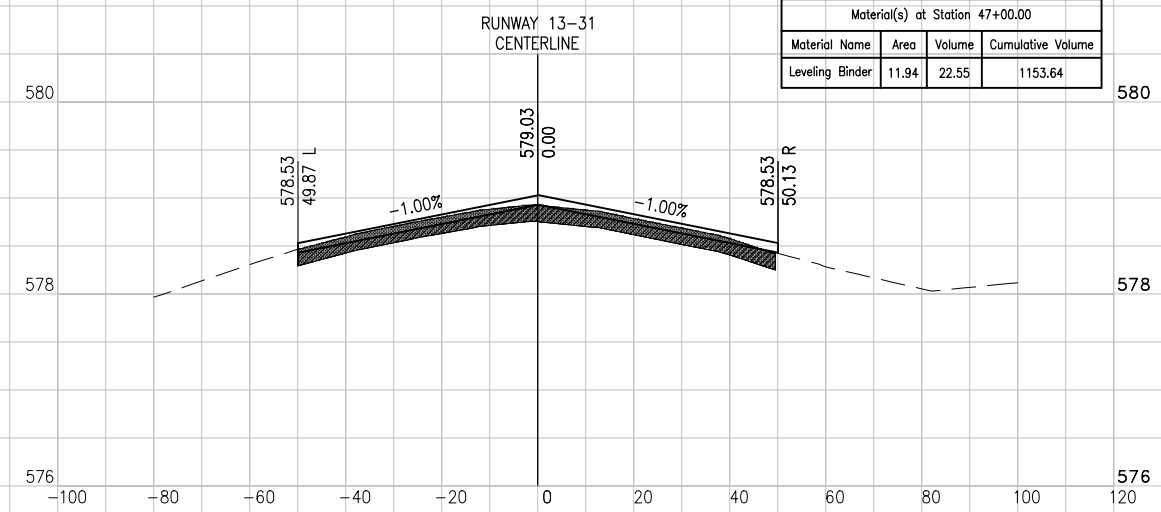
STA.
47+50



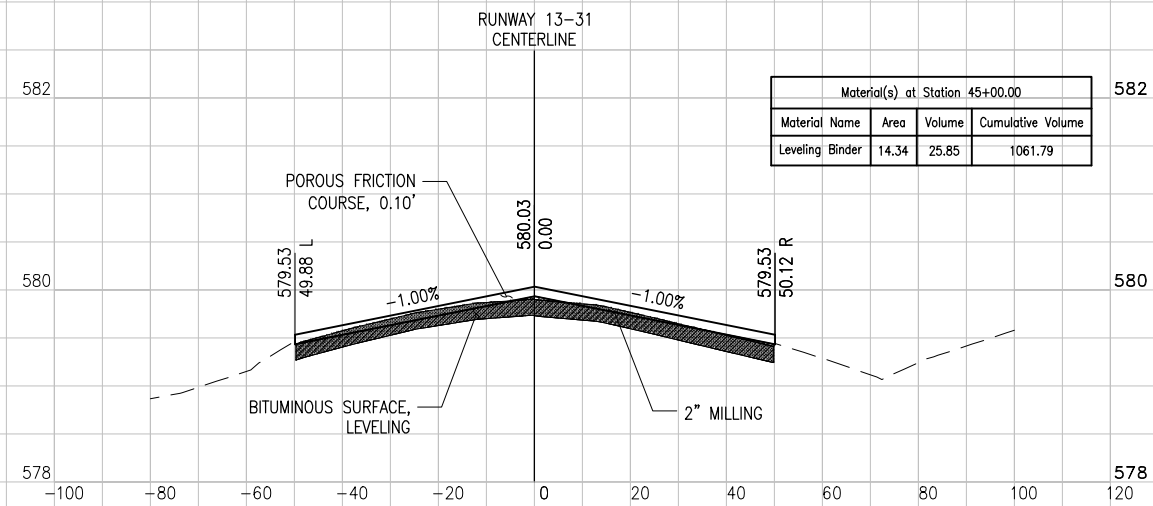
STA.
45+50



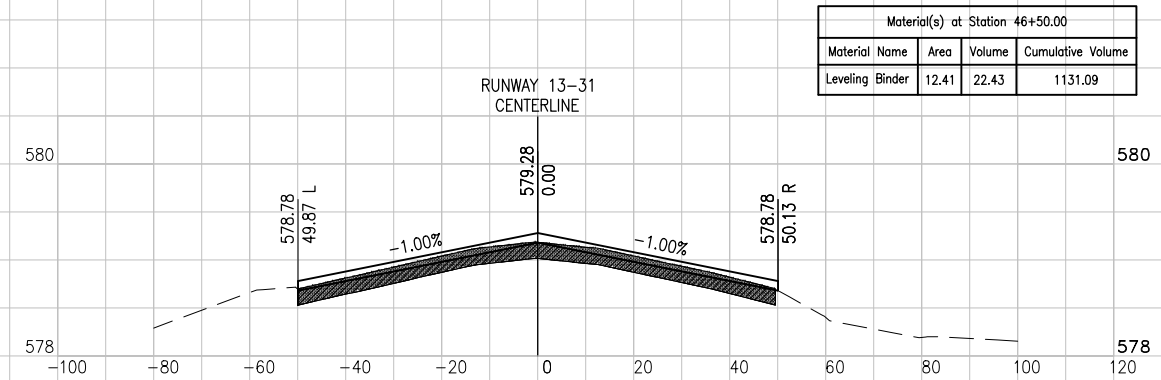
STA.
47+00



STA.
45+00



STA.
46+50



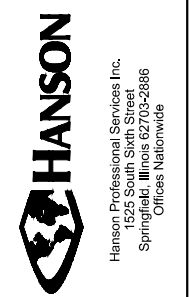
DATE	REVISION	BY

JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS

A.I.P. PROJ.: 3-17-0056-B6
 I.L. PROJ.: JOT-4043

Project No.	File Name	Scale	Date
09A0152D_0001	R-301XS-RWY.DWG	H, 1" = 20' V, 1" = 1'	5/14/12

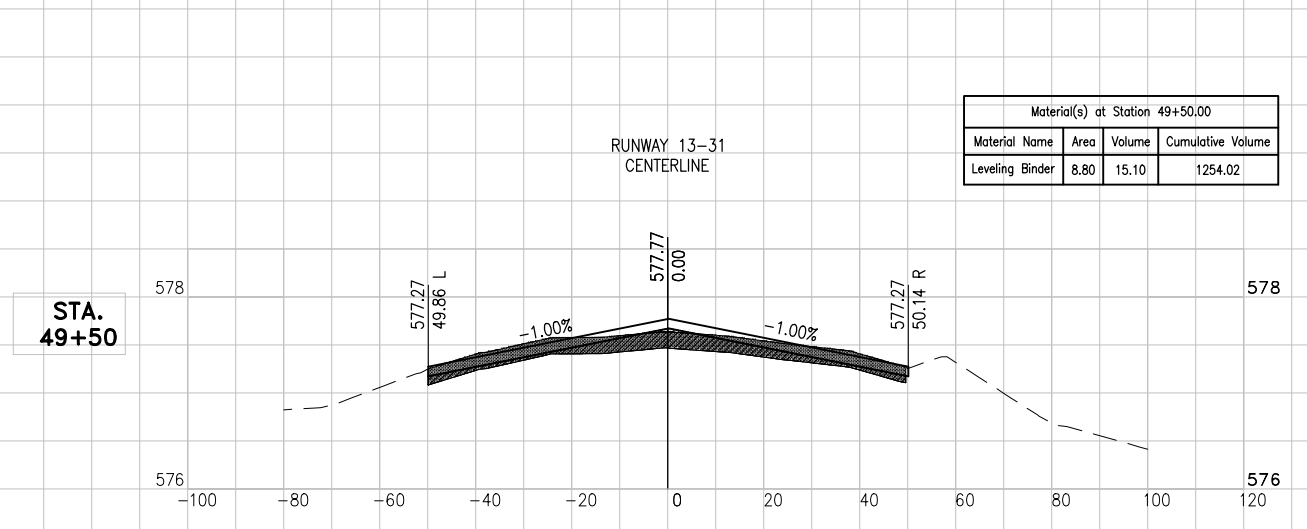
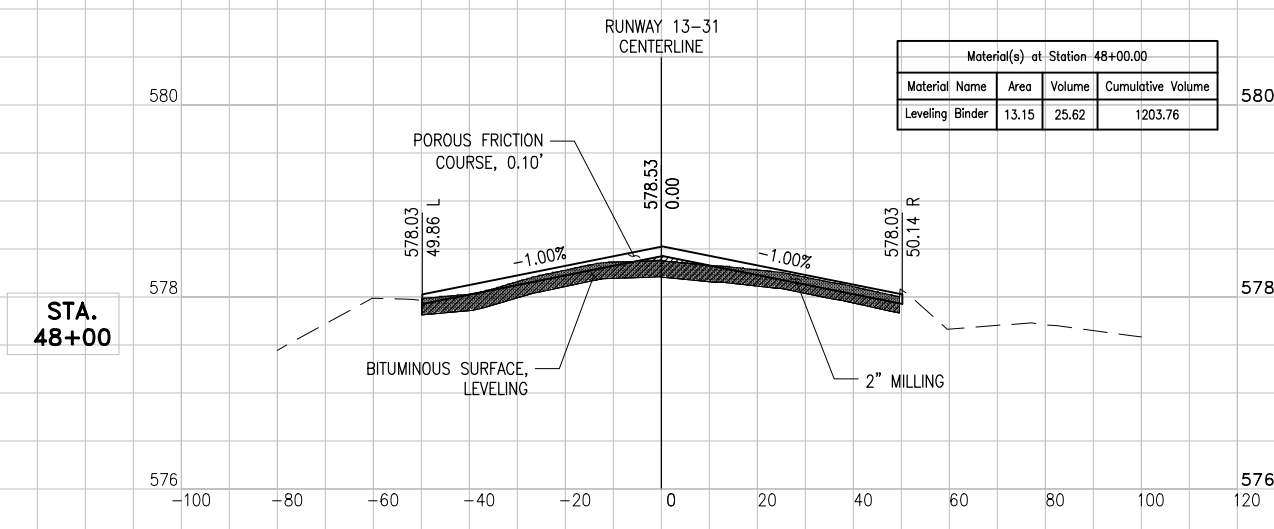
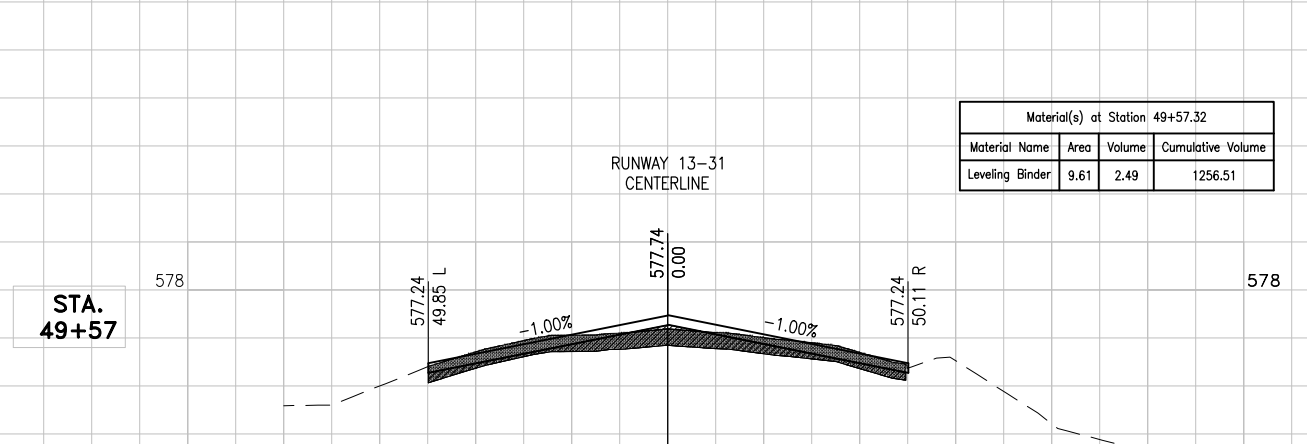
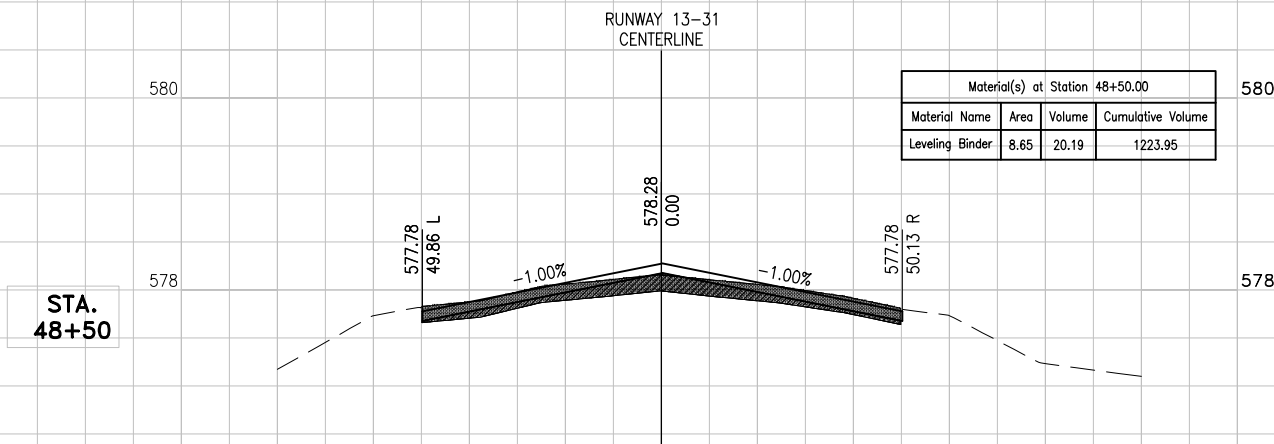
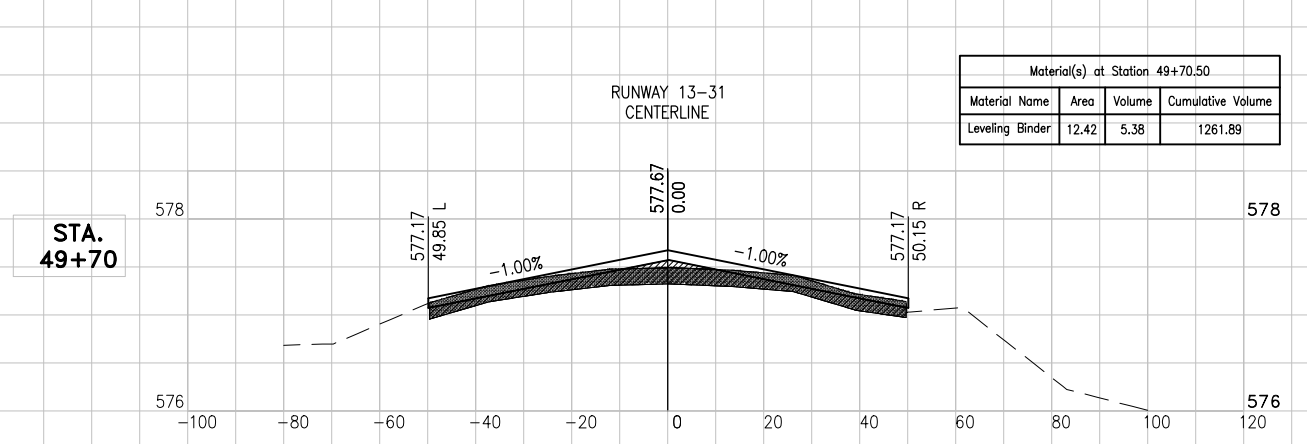
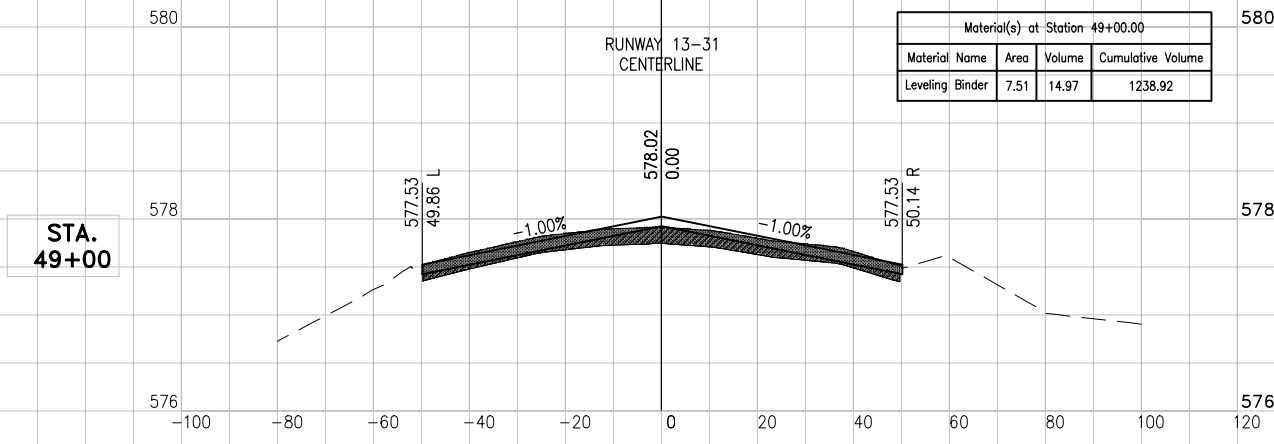
LAYOUT	DATE	BY



REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

RUNWAY 13-31 CROSS SECTIONS STA. 45+00 TO STA. 47+50

MAY 14, 2012 12:09 PM SCHME01296
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DATE	REVISION	BY

JOLIET REGIONAL AIRPORT
 JOLIET PARK DISTRICT
 JOLIET, ILLINOIS

IL PROJ.: JOT-4043 A.I.P. PROJ.: 3-17-0056-B6

Project No.	Scale	Date	LAYOUT	REVIEWED
09A0152D_0001	H, 1" = 20' V, 1" = 1'	5/14/12	KBS	RAW
R-301XS-RWY.DWG			KBS	
			KBS	
			RAW	



REHAB RUNWAY 13-31, REPLACE APRON, CONSTRUCT TAXIWAY A1

RUNWAY 13-31 CROSS SECTIONS STA. 48+00 TO STA. 49+70