

CONSTRUCTION PLANS

CLEARING, GRADING, AND DRAINAGE TO RUNWAY 35 RSA

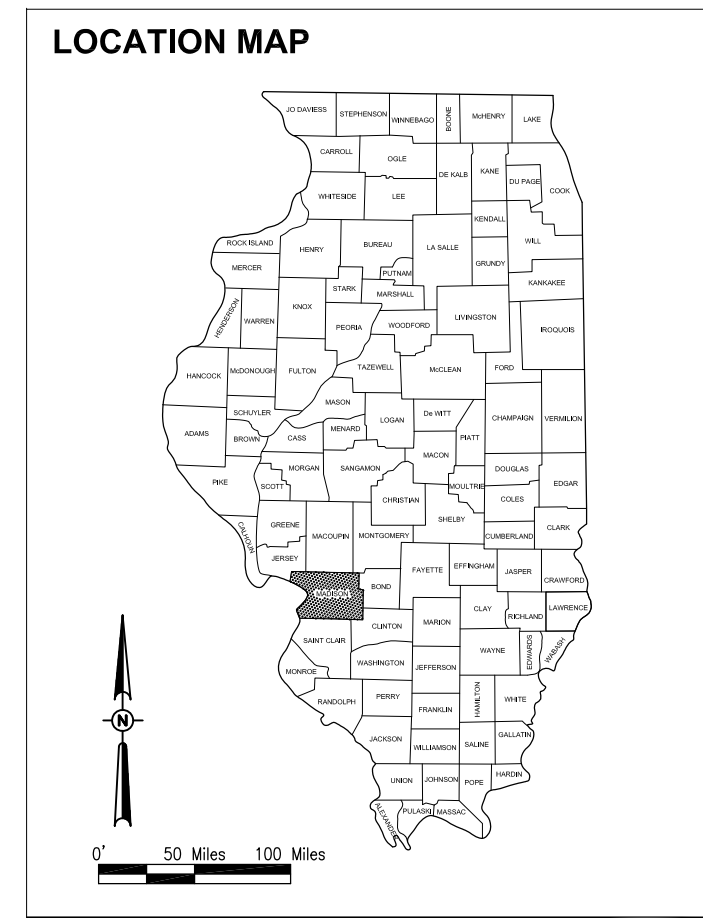
ST. LOUIS REGIONAL AIRPORT AUTHORITY  
ST. LOUIS REGIONAL AIRPORT (ALN)  
EAST ALTON, MADISON COUNTY, ILLINOIS

IDA PROJECT NO. ALN-4139  
SBG PROJECT NO. 3-17-0002-B48

VICINITY MAP



LOCATION MAP



NOTICE TO CONTRACTORS AND BIDDERS

THESE CONSTRUCTION PLANS RELY UPON THE SPECIAL PROVISIONS AND THE SPECIFICATIONS TO PROVIDE FOR A COMPLETE DESCRIPTION OF THE WORK AND CONSTRUCTION REQUIREMENTS. THE PLANS SHALL ONLY BE USED IN COMBINATION WITH ALL CONTRACT DOCUMENTS.

No.	Issue/Description	Sheets Changed	Date	By

Seal: **BARRY S. STOLZ**  
062-057281  
PROFESSIONAL ENGINEER

Date of Plans: 3/12/2014  
Date

Barry S. Stolz, P.E.  
Project Engineer

**HANSON**  
HANSON PROFESSIONAL SERVICES INC.  
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3/12/14  
Date

Robert A. Waller, P.E.  
Project Manager

**St. Louis Regional Airport Authority**  
ST. LOUIS REGIONAL AIRPORT AUTHORITY  
8 Terminal Drive  
East Alton, Illinois 62024  
Telephone: 618.259.2631  
Fax: 618.259.7669

MAR 11, 2014  
Date

David C. Miller  
Airport Manager

FILENAME:LONG

SUMMARY OF QUANTITIES				
ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITIES	AS BUILT QUANTITIES
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1	
AR150520	MOBILIZATION	L.S.	1	
AR150530	TRAFFIC MAINTENANCE	L.S.	1	
AR150540	HAUL ROUTE	L.S.	1	
AR151410	CLEARING	AC.	3.6	
AR151450	CLEARING AND GRUBBING	AC.	19.8	
AR152410	UNCLASSIFIED EXCAVATION	C.Y.	5,541	
AR156510	SILT FENCE	L.F.	6,993	
AR156511	DITCH CHECK	EA.	1	
AR156521	HEADWALL PROTECTION	EA.	2	
AR156530	TEMPORARY SEEDING	AC.	21.3	
AR156531	EROSION CONTROL BLANKET	S.Y.	1,091	
AR156540	RIPRAP	S.Y.	128	
AR162630	CLASS E GATE - 30'	EA.	1	
AR701560	60" RCP, CLASS IV	L.F.	216	
AR752460	PRECAST REINFORCED CONC. FES 60"	EA.	2	
AR901510	SEEDING	AC.	21.3	
AR908510	MULCHING	AC.	21.3	

EARTHWORK QUANTITY SUMMARY

	CUT (CY)	FILL (CY)	FILL + 15% (CY)	NET
PROJECT TOTAL	5,541	4,807	5,528	13 CY EXPORT

INDEX TO SHEETS	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SUMMARY OF QUANTITIES AND INDEX TO SHEETS
3	PROPOSED SCOPE OF WORK PLAN
4	PROPOSED SAFETY PLAN
5	CONSTRUCTION SAFETY AND PHASING DETAILS AND NOTES
6	PROPOSED CLEARING PLAN
7	PROPOSED CLEARING NOTES
8	PROPOSED CONSTRUCTION PLANS
9	TYPICAL SECTIONS
10	DRAINAGE DETAILS
11	PROPOSED STORMWATER POLLUTION PREVENTION PLAN
12	PROPOSED STORMWATER POLLUTION PREVENTION DETAILS
13	RSA CROSS SECTIONS STA. 69+00 TO STA. 69+25
14	RSA CROSS SECTIONS STA. 69+50 TO STA. 70+00
15	RSA CROSS SECTIONS STA. 70+25 TO STA. 70+75
16	RSA CROSS SECTIONS STA. 71+00 TO STA. 71+50
17	RSA CROSS SECTIONS STA. 71+75 TO STA. 72+00
18	RSA CROSS SECTIONS STA. 72+25 TO STA. 72+50
19	BORROW CROSS SECTIONS STA. 68+75 TO STA. 69+25
20	BORROW CROSS SECTIONS STA. 69+50 TO STA. 70+00
21	BORROW CROSS SECTIONS STA. 70+25 TO STA. 70+75
22	BORROW CROSS SECTIONS STA. 71+00 TO STA. 71+50
23	BORROW CROSS SECTIONS STA. 71+75

**GENERAL NOTES:**

**QUANTITIES**

PAYMENT WILL BE MADE UNDER THE ITEM NUMBERS, DESCRIPTIONS AND UNITS NOTED IN THE ABOVE TABLE IN ACCORDANCE WITH THE BASIS OF PAYMENT FOR EACH RESPECTIVE WORK ITEM COMPLETED AND ACCEPTED BY THE ENGINEER.

**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 CERTIFICATIONS**

MATERIALS TO BE INCORPORATED INTO THE PROJECT **CANNOT** BE USED WITHOUT PRIOR APPROVAL. ALL MATERIALS TO BE USED IN THE PROJECT MUST BE SUBMITTED TO THE RESIDENT ENGINEER FOR APPROVAL. USE OF MATERIALS WITHOUT PRIOR APPROVAL AND ULTIMATELY DETERMINED TO BE UNACCEPTABLE BY THE ILLINOIS DIVISION OF AERONAUTICS ARE SUBJECT TO REMOVAL AND/OR NON-PAYMENT. ALL SHOP DRAWINGS SHALL BE ACCOMPANIED BY DOCUMENTATION INDICATING COMPLIANCE WITH BUY AMERICAN PREFERENCE.

REVISION	DATE

ST. LOUIS REGIONAL AIRPORT



EAST ALTON, ILLINOIS

BLOCK GRANT PROJ.: 3-17-0002-B48

Hanson Project No. 11A0098D	FILENAME G-002-FLP.dwg	SCALE NOT TO SCALE	DATE 01/31/14
LAYOUT	JRH	01/30/14	
DRAWN	JRH	01/30/14	
REVIEWED	BSS	01/30/14	

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 Offices Nationwide

CLEARING, GRADING,  
AND DRAINAGE TO  
RUNWAY 35 RSA

SUMMARY OF QUANTITIES  
AND INDEX TO SHEETS

**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 WHATSOEVER 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 ITS 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 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 LOCATED BY THE FAA. ALSO CONTACT AIRPORT MANAGER AND AIRPORT PERSONNEL FOR ASSISTANCE IN LOCATING UNDERGROUND AIRPORT CABLES AND UTILITIES. ALSO COORDINATE WORK WITH ALL ABOVEGROUND UTILITIES.

**J.U.L.I.E. INFORMATION**

COUNTY \_\_\_\_\_ MADISON  
 CITY \_\_\_\_\_ BETHALTO  
 TOWNSHIP \_\_\_\_\_ ALTON - WOODRIVER  
 SECTION NO. \_\_\_\_\_ 13 & 18  
 ADDRESS \_\_\_\_\_ ST. LOUIS REGIONAL AIRPORT  
 8 TERMINAL DRIVE  
 EAST ALTON, ILLINOIS 62024

**CONTROL POINT DATA**

NO.	DESCRIPTION	ELEV.
A	CHISELED "C" FOUNDATION N.W. CORNER OF HANGAR #12	540.40
B	MAG NAIL IN ASPHALT	541.72
C	N.E. BOLT OF BEACON	539.88

**SURVEY NOTES**

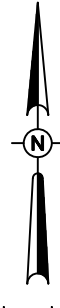
- ALL COORDINATE VALUES SHOWN IN TABLE ARE BASED ON ILLINOIS STATE PLANE - WEST ZONE NAD-83 (2007).
- REFER TO IDOT STANDARD SPECIFICATIONS 50-06, CONSTRUCTION LAYOUT STAKES, FOR ADDITIONAL INFORMATION.

**LEGEND**

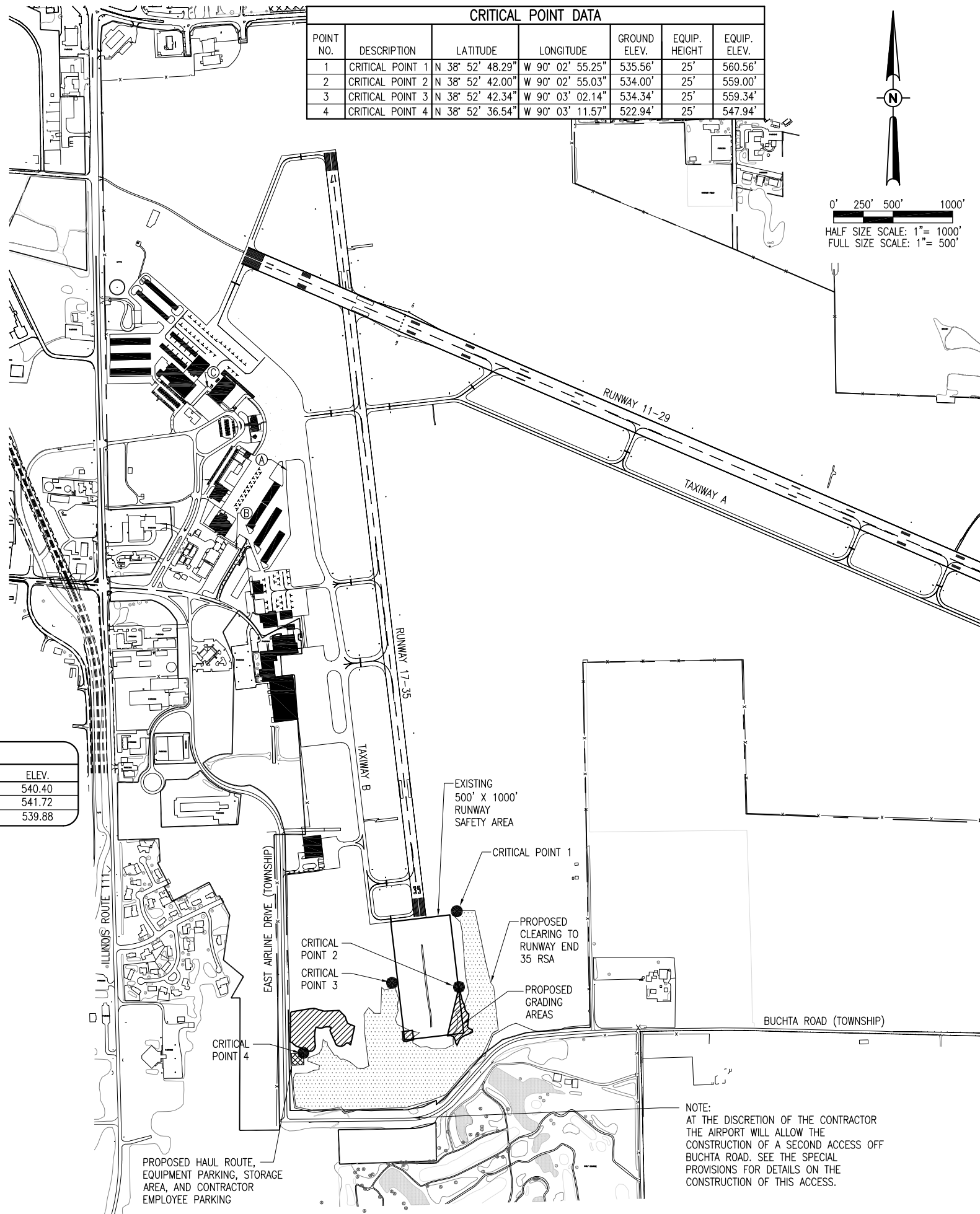
- EXISTING IMPROVEMENTS
- PROPOSED CLEARING/CLEARING & GRUBBING
- EXISTING BUILDINGS
- PROPOSED HAUL ROUTE AND EQUIPMENT PARKING AREA
- PROPOSED GRADING IMPROVEMENTS

**CRITICAL POINT DATA**

POINT NO.	DESCRIPTION	LATITUDE	LONGITUDE	GROUND ELEV.	EQUIP. HEIGHT	EQUIP. ELEV.
1	CRITICAL POINT 1	N 38° 52' 48.29"	W 90° 02' 55.25"	535.56'	25'	560.56'
2	CRITICAL POINT 2	N 38° 52' 42.00"	W 90° 02' 55.03"	534.00'	25'	559.00'
3	CRITICAL POINT 3	N 38° 52' 42.34"	W 90° 03' 02.14"	534.34'	25'	559.34'
4	CRITICAL POINT 4	N 38° 52' 36.54"	W 90° 03' 11.57"	522.94'	25'	547.94'



0' 250' 500' 1000'  
 HALF SIZE SCALE: 1"= 1000'  
 FULL SIZE SCALE: 1"= 500'



NOTE:  
 AT THE DISCRETION OF THE CONTRACTOR THE AIRPORT WILL ALLOW THE CONSTRUCTION OF A SECOND ACCESS OFF BUCHTA ROAD. SEE THE SPECIAL PROVISIONS FOR DETAILS ON THE CONSTRUCTION OF THIS ACCESS.

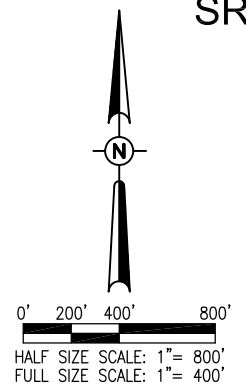
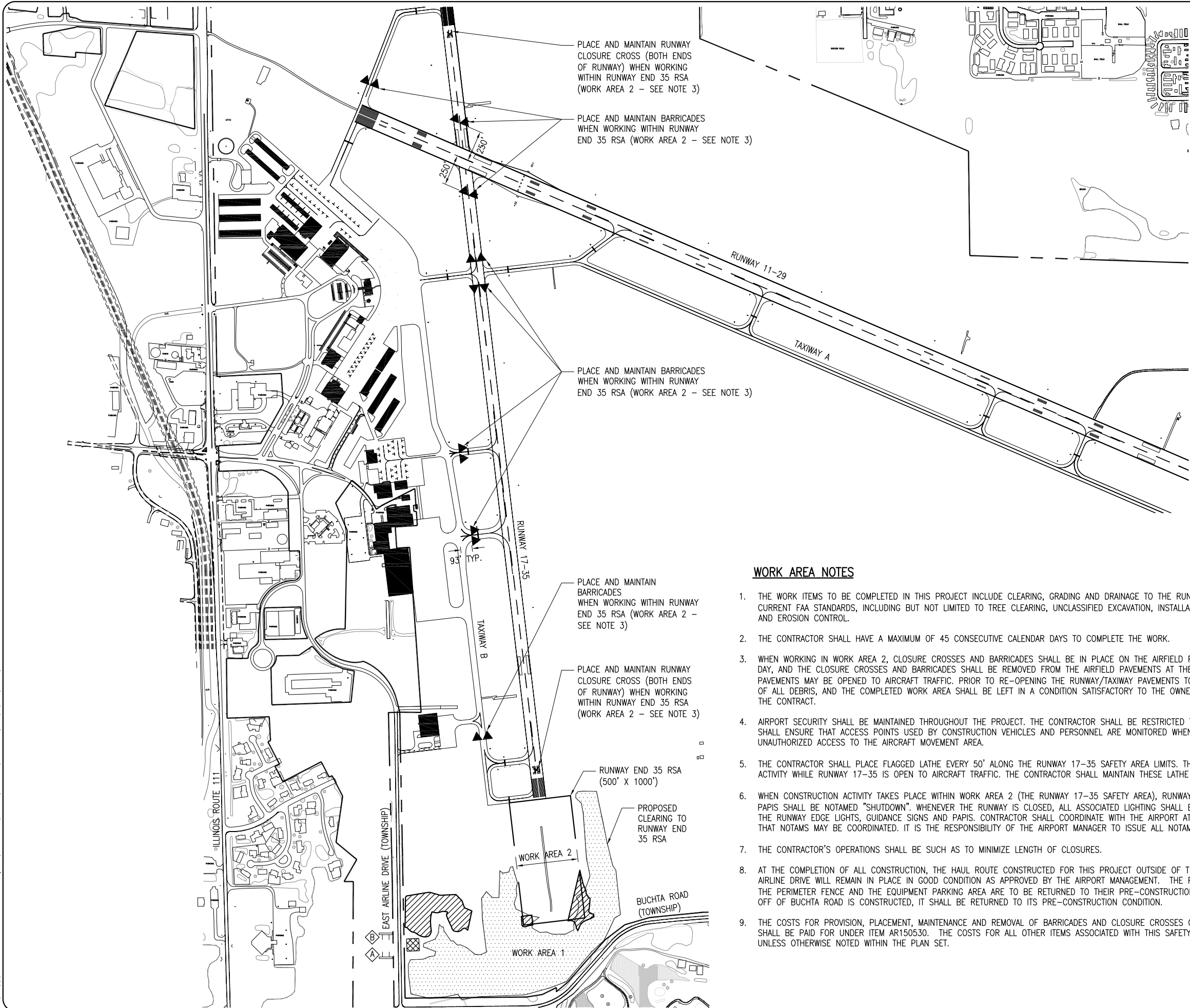
**GENERAL NOTES**

**SR087**

- THE SCOPE OF WORK SHEET IS INTENDED ONLY AS A GENERAL DESCRIPTION OF WORK ITEMS AND THEIR APPROXIMATE LOCATIONS AND LIMITS, FOR THE PURPOSE OF UNDERSTANDING THE SCOPE OF THE PROJECT. THIS SHEET SHALL NOT BE USED AS A CONSTRUCTION PLAN. REFER TO THE FOLLOWING PLAN SHEETS FOR DETAILED CONSTRUCTION REQUIREMENTS, LOCATIONS, AND ITEMS OF WORK.
- WORK FOR THIS PROJECT SHALL CONSIST OF, BUT IS NOT LIMITED TO, CLEARING, GRADING, AND DRAINAGE TO THE RUNWAY 35 RSA SO THAT THE RSA MEETS CURRENT FAA STANDARDS. THIS PROJECT WILL INCLUDE TREE CLEARING, EARTHWORK, INSTALLATION OF PIPE, AND SEEDING AND MULCHING.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, AND TRANSPORTATION NECESSARY TO CONSTRUCT ALL ELEMENTS OF THE PROJECT AS DESCRIBED IN THE CONSTRUCTION PLANS AND SPECIFICATIONS.
- THE RULES, REGULATIONS, AND SPECIFICATIONS ENUMERATED HEREIN SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS. THEY SHALL NOT PROHIBIT THE CONTRACTOR FROM FURNISHING AND INSTALLING HIGHER GRADES OF MATERIAL THAN ARE SPECIFIED HEREIN.
- THE CONTRACTOR IS NOT PERMITTED TO USE THE AIRPORT ENTRANCE DRIVE AND AUTO PARKING LOT FOR MATERIAL AND EQUIPMENT HAULING OR STORAGE. THE CONSTRUCTION ENTRANCE AS SHOWN ON THIS SHEET AND THE PROPOSED SAFETY PLAN WILL BE THE PRIMARY ACCESS TO THE PROPOSED CONSTRUCTION SITE. ALL HAULING OF MATERIALS AND EQUIPMENT SHALL BE RESTRICTED TO THE DESIGNATED CONSTRUCTION ENTRANCE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT, PRESERVE AND REPAIR THE EXISTING AIRFIELD AND ROADWAY PAVEMENTS AT ALL TIMES. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING ELECTRICAL, DRAINAGE, AND PAVEMENT STRUCTURES AT NO ADDITIONAL COST TO THE CONTRACT. ANY DAMAGE TO FAA CABLES, ACCESS ROADS OR TO FAA FACILITIES DURING CONSTRUCTION WILL REQUIRE THE CONTRACTOR TO REPLACE THE DAMAGED CABLES, ACCESS ROAD OR FAA FACILITIES TO FAA REQUIREMENTS AT THE CONTRACTOR'S EXPENSE. SPLICING OF CABLES IS NOT AN ACCEPTABLE FORM OF REPAIR.
- NO EQUIPMENT SHALL BE PERMITTED TO CROSS OR USE ANY EXISTING PAVEMENT OUTSIDE THE CONSTRUCTION LIMITS, GENERAL PROJECT AREA OR HAUL ROUTE.
- CONTRACTOR IS REQUIRED TO PROVIDE THEIR OWN RESTROOM FACILITIES.
- UNLESS OTHERWISE NOTED, ALL DISTURBED AREAS OUTSIDE OF THE PROPOSED CONSTRUCTION LIMITS SHALL BE GRADED, SEEDED AND/OR HYDROMULCH SEEDED AT NO ADDITIONAL COST TO THE CONTRACT.
- ALL WASTE MATERIAL SHALL BE HAULED FROM THE AIRPORT AND PROPERLY DISPOSED OF UNLESS OTHERWISE SPECIFIED HEREIN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS FOR HAULING ON PUBLIC ROADS, AS APPLICABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGES TO ANY PAVEMENTS (PUBLIC OR PRIVATE) CAUSED BY HIS/HER CONSTRUCTION EQUIPMENT OR PERSONNEL.
- THE OWNER SHALL HAVE THE RIGHT OF FIRST REFUSAL FOR ALL SALVAGEABLE MATERIAL REMOVED ON THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE ONE SET OF REDLINED AS-BUILT DRAWINGS TO THE RESIDENT ENGINEER AT THE COMPLETION OF THE PROJECT.
- CONTRACTOR SHALL NOTE THAT ALL AREAS WITHIN THE AIRPORT PROPERTY LINE AND OUTSIDE THE CONSTRUCTION LIMITS MAY BE USED FOR AGRICULTURAL PURPOSES. THE CONSTRUCTION LIMITS SHALL BE RESTRICTED TO AREAS THAT ARE ABSOLUTELY NECESSARY TO DISTURB TO COMPLETE THE REQUIRED WORK ITEMS. LIMITS SHALL BE COORDINATED WITH THE RESIDENT ENGINEER PRIOR TO BEGINNING ANY WORK. ALL AREAS WHICH HAVE BEEN FARMED AND OR DESIGNATED TO BE FARMED AFTER THE PROJECT COMPLETION, AND HAVE BEEN DISTURBED BY CONSTRUCTION ACTIVITY, SHALL BE CHISEL PLOWED (36" MAX.) OR OTHERWISE SCARIFIED TO RETURN THE AREA TO A REASONABLE TILLABLE CONDITION (IF SO PERMITTED BY THE AIRPORT MANAGER.)
- CONTRACTOR SHALL RESTORE TO ORIGINAL CONDITION ALL GRASS, STONE, OR PAVEMENT DISTURBED BY CONTRACTOR'S CONSTRUCTION OPERATIONS, STAGING, AND CONSTRUCTION ACCESS ROUTES. DISTURBED AREAS TO BE REPAIRED, GRADED, AND SEEDED AND MULCHED UNLESS OTHERWISE NOTED. STAGING AREA AND SITE ACCESS RESTORATION SHALL BE INCLUDED IN THE COST OF THE HAUL ROUTE.
- THE PROJECT PAY ITEMS ARE INTENDED TO BE INCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THESE PLANS. ALL INCIDENTAL WORK REQUIRED TO COMPLETE THE PROJECT TO THE SATISFACTION OF THE RESIDENT ENGINEER IS TO BE INCLUDED IN THE COSTS OF PERFORMING THESE ITEMS.
- APPROXIMATE LOCATIONS OF UNDERGROUND UTILITIES ARE SHOWN THROUGHOUT THESE PLANS. THE CONTRACTOR SHALL DETERMINE EXACT LOCATIONS AND PROTECT THESE UTILITIES DURING CONSTRUCTION. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL COORDINATE WITH THE PROPER PERSONS FOR THE PURPOSE OF LOCATING AND PROTECTING EXISTING UNDERGROUND UTILITIES.
- THE CONTRACTOR MUST AT ALL TIMES MAINTAIN PROPER DRAINAGE FOR ALL AREAS AFFECTED BY HIS WORK.

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<p><b>REVISION</b></p>	
<p><b>DATE</b></p>	
<p><b>ST. LOUIS REGIONAL AIRPORT</b></p>	
<p><b>EAST ALTON, ILLINOIS</b></p>	
<p>BLOCK GRANT PROJ.: 3-17-0002-B48</p>	
<p>IL PROJ.: ALN-4139</p>	
<p>Hanson Project No. 11A00980</p>	<p>Scale 1"=500'</p>
<p>Filename G-003-SOW.DWG</p>	<p>Date 01/31/14</p>
<p>LAYOUT</p>	<p>JRH 01/30/14</p>
<p>DRAWN</p>	<p>JRH 01/30/14</p>
<p>REVIEWED</p>	<p>BSS 01/30/14</p>
<p><b>HANSON</b> Professional Services Inc. 2014                  Hanson Professional Services Inc.                  1525 South Sixth Street                  Springfield, Illinois 62703-2886                  Ph: (217) 788-2450 Fax: (217) 788-2503                  www.hanson-inc.com                  Offices Nationwide</p>	
<p><b>CLEARING, GRADING,                  AND DRAINAGE TO                  RUNWAY 35 RSA</b></p>	<p><b>PROPOSED SCOPE OF                  WORK PLAN</b></p>
<p><b>3</b></p>	
<p>3 of 23 sheets</p>	



**LEGEND**

	EXISTING IMPROVEMENTS
	PROPOSED TREE CLEARING LIMITS
	PROPOSED GRADING IMPROVEMENTS
	EXISTING BUILDINGS
	PROPOSED HAUL ROUTE AND EQUIPMENT PARKING AREA
	EXISTING FENCE
	RUNWAY/TAXIWAY SAFETY AREA
	RUNWAY PROTECTION ZONE
	PROPOSED RUNWAY/TAXIWAY CLOSURE CROSS
	PROPOSED BARRICADES
	CONSTRUCTION SIGN:
	"CONSTRUCTION TRAFFIC →"
	"← CONSTRUCTION TRAFFIC"

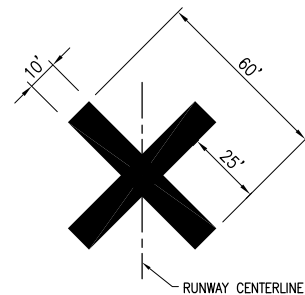
**WORK AREA NOTES**

1. THE WORK ITEMS TO BE COMPLETED IN THIS PROJECT INCLUDE CLEARING, GRADING AND DRAINAGE TO THE RUNWAY 35 SAFETY AREA SO THAT THE RSA MEETS CURRENT FAA STANDARDS, INCLUDING BUT NOT LIMITED TO TREE CLEARING, UNCLASSIFIED EXCAVATION, INSTALLATION OF STORM SEWER STRUCTURES, SEEDING/MULCHING AND EROSION CONTROL.
2. THE CONTRACTOR SHALL HAVE A MAXIMUM OF 45 CONSECUTIVE CALENDAR DAYS TO COMPLETE THE WORK.
3. WHEN WORKING IN WORK AREA 2, CLOSURE CROSSES AND BARRICADES SHALL BE IN PLACE ON THE AIRFIELD PAVEMENTS PRIOR TO BEGINNING CONSTRUCTION EACH DAY, AND THE CLOSURE CROSSES AND BARRICADES SHALL BE REMOVED FROM THE AIRFIELD PAVEMENTS AT THE CONCLUSION OF EACH WORK DAY SUCH THAT THE PAVEMENTS MAY BE OPENED TO AIRCRAFT TRAFFIC. PRIOR TO RE-OPENING THE RUNWAY/TAXIWAY PAVEMENTS TO AIRCRAFT TRAFFIC, THE PAVEMENTS SHALL BE CLEARED OF ALL DEBRIS, AND THE COMPLETED WORK AREA SHALL BE LEFT IN A CONDITION SATISFACTORY TO THE OWNER AND RESIDENT ENGINEER AT NO ADDITIONAL COST TO THE CONTRACT.
4. AIRPORT SECURITY SHALL BE MAINTAINED THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL BE RESTRICTED TO THE DESIGNATED WORK AREAS. THE CONTRACTOR SHALL ENSURE THAT ACCESS POINTS USED BY CONSTRUCTION VEHICLES AND PERSONNEL ARE MONITORED WHEN OPEN AND LOCKED WHEN NOT IN USE TO PREVENT UNAUTHORIZED ACCESS TO THE AIRCRAFT MOVEMENT AREA.
5. THE CONTRACTOR SHALL PLACE FLAGGED LATHE EVERY 50' ALONG THE RUNWAY 17-35 SAFETY AREA LIMITS. THIS LINE WILL DESIGNATE THE LIMITS OF CONTRACTOR ACTIVITY WHILE RUNWAY 17-35 IS OPEN TO AIRCRAFT TRAFFIC. THE CONTRACTOR SHALL MAINTAIN THESE LATHE LINES THROUGHOUT CONSTRUCTION.
6. WHEN CONSTRUCTION ACTIVITY TAKES PLACE WITHIN WORK AREA 2 (THE RUNWAY 17-35 SAFETY AREA), RUNWAY 17-35 SHALL BE NOTAMED "CLOSED". THE NDB AND PAPI'S SHALL BE NOTAMED "SHUTDOWN". WHENEVER THE RUNWAY IS CLOSED, ALL ASSOCIATED LIGHTING SHALL BE TURNED OFF OR COMPLETELY COVERED, INCLUDING THE RUNWAY EDGE LIGHTS, GUIDANCE SIGNS AND PAPI'S. CONTRACTOR SHALL COORDINATE WITH THE AIRPORT AT LEAST 7 DAYS BEFORE BEGINNING CONSTRUCTION SO THAT NOTAMS MAY BE COORDINATED. IT IS THE RESPONSIBILITY OF THE AIRPORT MANAGER TO ISSUE ALL NOTAMS REQUIRED THROUGHOUT THE CONTRACT TIME.
7. THE CONTRACTOR'S OPERATIONS SHALL BE SUCH AS TO MINIMIZE LENGTH OF CLOSURES.
8. AT THE COMPLETION OF ALL CONSTRUCTION, THE HAUL ROUTE CONSTRUCTED FOR THIS PROJECT OUTSIDE OF THE PERIMETER FENCE AND THE ACCESS GATE OFF EAST AIRLINE DRIVE WILL REMAIN IN PLACE IN GOOD CONDITION AS APPROVED BY THE AIRPORT MANAGEMENT. THE PORTION OF THE HAUL ROUTE CONSTRUCTED INSIDE OF THE PERIMETER FENCE AND THE EQUIPMENT PARKING AREA ARE TO BE RETURNED TO THEIR PRE-CONSTRUCTION CONDITION. IF THE OPTIONAL HAUL ROUTE/ENTRANCE OFF OF BUCHTA ROAD IS CONSTRUCTED, IT SHALL BE RETURNED TO ITS PRE-CONSTRUCTION CONDITION.
9. THE COSTS FOR PROVISION, PLACEMENT, MAINTENANCE AND REMOVAL OF BARRICADES AND CLOSURE CROSSES ON THE AIRFIELD AND ALL ASSOCIATED INCIDENTALS SHALL BE PAID FOR UNDER ITEM AR150530. THE COSTS FOR ALL OTHER ITEMS ASSOCIATED WITH THIS SAFETY PLAN SHALL BE PAID FOR UNDER ITEM AR150540 UNLESS OTHERWISE NOTED WITHIN THE PLAN SET.

 ST. LOUIS REGIONAL AIRPORT EAST ALTON, ILLINOIS BLOCK GRANT PROJ.: 3-17-0002-B48 ILL. PROJ.: ALN-4139	 HANSON Professional Services Inc. 2014 Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62703-2886 Ph: (217) 788-2450 Fax: (217) 788-2503 www.hanson-inc.com Offices Nationwide	HANSON PROJECT No. 11A00980 Filename C-004-SFY.dwg Scale 1"=400' Date 01/31/14 LAYOUT JRH 01/30/14 DRAWN JRH 01/30/14 REVIEWED BSS 01/30/14	CLEARING, GRADING, AND DRAINAGE TO RUNWAY 35 RSA PROPOSED SAFETY PLAN <div style="font-size: 2em; font-weight: bold; margin-top: 10px;">4</div> 4 of 23 sheets
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**SAFETY NOTES**

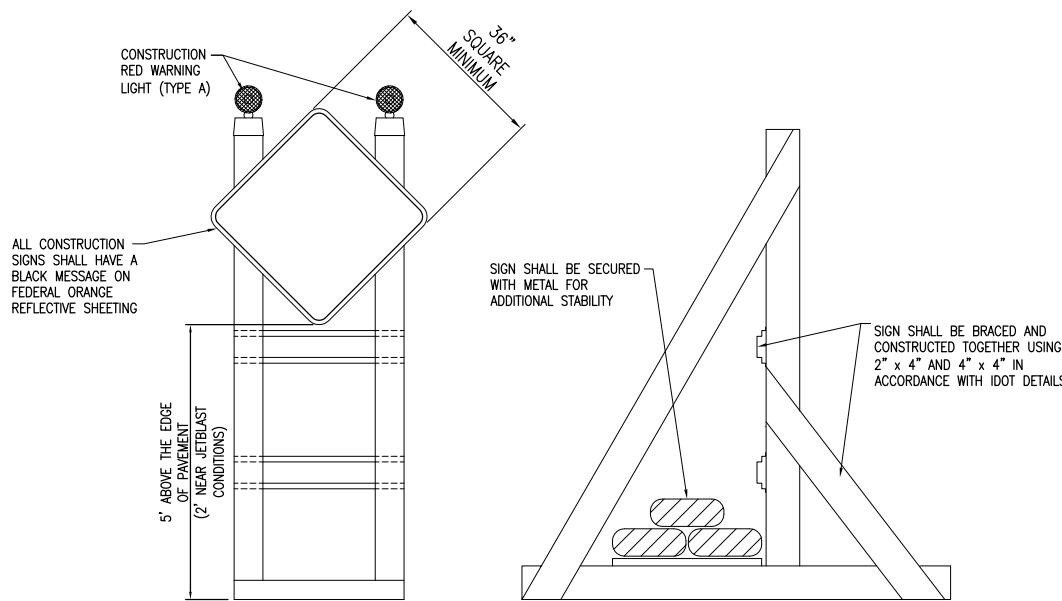
- FOLLOWING ARE THE CONSTRUCTION SAFETY PROCEDURES THAT THE CONTRACTOR SHALL FOLLOW THROUGHOUT THIS PROJECT. ADDITIONAL REQUIREMENTS ARE SHOWN ON THE SAFETY AND PHASING NOTES AND DETAILS SHEET.
- ALL PROVISIONS OF THE LATEST EDITION OF FAA ADVISORY CIRCULAR AC 150/5370-2 (CURRENT EDITION), "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION", APPLY TO THIS CONTRACT, EXCEPT AS MODIFIED BY THIS SAFETY PLAN, OR AS MODIFIED BY THE OWNER THROUGH THE RESIDENT ENGINEER AT THE PRECONSTRUCTION CONFERENCE, OR DURING THE COURSE OF THE CONTRACT.
- THE CONTRACTORS SHALL MINIMIZE DISRUPTION OF STANDARD OPERATING PROCEDURES FOR AERONAUTICAL ACTIVITY BY REMAINING WITHIN THE PRESCRIBED STAGING, CONSTRUCTION, AND PHASING AREAS PRESENTED ON THE PROJECT SAFETY AND PHASING PLANS.
- NO UNAUTHORIZED PERSONNEL SHALL ENTER ANY AREA OF THE AIRPORT THAT COULD POTENTIALLY BE HAZARDOUS. THE AIRPORT MANAGER RESERVES THE RIGHT TO SUSPEND OPERATIONS IN ORDER TO MAINTAIN SAFETY AT THE AIRPORT.
- CONTRACTOR EQUIPMENT, VEHICLES, AND PROJECT MATERIALS SHALL BE STORED AT THE STAGING AREA SHOWN ON THE PLAN VIEW, EXCEPT AS OTHERWISE PROVIDED FOR AT THE PRECONSTRUCTION CONFERENCE.
- ALL CONSTRUCTION EQUIPMENT OPERATING IN THE PRESCRIBED CONSTRUCTION AREA IS REQUIRED TO DISPLAY A CHECKERBOARD FLAG PROPERLY LOCATED OR A ROTATING BEACON (STROBE) AS SPECIFIED IN AC 150/5210-5, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT" LATEST EDITION.
- NO CONSTRUCTION MATERIAL STOCKPILES SHALL BE LOCATED WITHIN 250' OF ANY ACTIVE RUNWAY, WITHIN 93' OF ANY OTHER ACTIVE AIRPORT OPERATIONS AREA, OR PENETRATE A PART 77 IMAGINARY SURFACE (PROVIDED BY THE RESIDENT ENGINEER) EXTENDING OUT AND UPWARDS FROM ALL SIDES OF AN ACTIVE RUNWAY.
- CLOSED AIRFIELD PHASING AREAS, OPEN TRENCHES, AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH LIGHTED BARRICADES WITH STEADY BURNING OR FLASHING RED LIGHTS AS SPECIFIED IN 150/5370-2, "OPERATIONAL SAFETY ON AIRPORT DURING CONSTRUCTION, LATEST EDITION. LIGHTED BARRICADES MUST BE NO TALLER THAN 18" (EXCLUSIVE OF SUPPLEMENTARY LIGHTS AND FLAGS) ON THE TAXIWAYS AND COMPLY WITH ADVISORY CIRCULAR 150/5370-2, LATEST EDITION. CONTRACTOR SHALL NIGHT CHECK BARRICADES DAILY FOR PROPER OPERATION.
- NO OPEN TRENCHES WITHIN 250' OF AN ACTIVE RUNWAY CENTERLINE OR WITHIN 93' OF ANY AIRPORT OPERATIONS AREA WILL BE PERMITTED UNLESS PROPERLY MARKED. OTHER TRENCHES SHALL BE MAINTAINED SAFE, I.E., BARRICADED OR COVERED WITH STEEL PLATES IN ALL OTHER AREAS.
- OPEN TRENCHES, EXCAVATIONS, AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHOULD BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING YELLOW LIGHTS DURING HOURS OF RESTRICTED VISIBILITY AND/OR DARKNESS.
- NO CONSTRUCTION EQUIPMENT GREATER THAN 25' TALL WILL BE PERMITTED ON THE AIRPORT. HOWEVER OTHER EQUIPMENT TALLER THAN 25' MAY BE PERMITTED WITH THE APPROVAL OF THE AIRPORT MANAGER AND AIRSPACE APPROVAL BY THE FAA.
- NO OPEN FLAME WELDING OR TORCH CUTTING OPERATION IS PERMITTED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS ARE PROVIDED AND HAVE BEEN APPROVED BY THE AIRPORT MANAGER. NO FLARE POTS ARE ALLOWED ON THE PROJECT.
- SOIL, DEBRIS, AND LOOSE MATERIAL DROPPED OR TRUCKED ONTO AIRPORT ROADS, TAXIWAYS, AND SOD SURFACES, OR WHICH CAN BE BLOWN ONTO SUCH SURFACES, SHALL BE IMMEDIATELY SWEEP, PICKED UP AND REMOVED, OR PLACED INTO CLOSED CONTAINERS. ANY DAMAGE TO AIRPORT PROPERTY SHALL BE REPAIRED IMMEDIATELY AT NO COST TO THE OWNER.
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MAINTAINING AIRPORT LIGHTING AND NAVIGATIONAL ELECTRICAL SYSTEMS DURING CONSTRUCTION. A CONTACT PERSON AND TELEPHONE NUMBER FOR 24 HOUR EMERGENCY IMMEDIATE REPAIR SHALL BE SUBMITTED TO THE AIRPORT MANAGER AND RESIDENT ENGINEER. HAUL ROUTES CROSSING PAVEMENT, DRAINAGE, MISCELLANEOUS STRUCTURES AND/OR AIRFIELD CABLES SHALL BE PROTECTED FROM DAMAGE.
- ALL AIRCRAFT AND AIRPORT OPERATIONS HAVE THE RIGHT-OF-WAY. CONTRACTOR TO YIELD TO VEHICLES AND REMAIN CLEAR AT ALL TIMES.
- CONTRACTOR SHALL PLACE, SECURE, AND MAINTAIN LIGHTED BARRICADES AND CLOSURE CROSSES WHEN A RUNWAY/TAXIWAY/APRON IS CLOSED OR AS REQUIRED BY THE PLANS AND DESIGNATED BY THE RESIDENT ENGINEER.
- CONTRACTOR SHALL MARK HAZARDOUS AREA WITH STEADY-BURNING OR FLASHING RED AND YELLOW LIGHTS DURING PERIODS OF LOW VISIBILITY AS REQUIRED.
- THE CONTRACTOR SHALL PERIODICALLY PERFORM ONSITE INSPECTIONS THROUGHOUT THE DURATION OF THE PROJECT WITH THE IMMEDIATE REMEDY OF ANY DIFFERENCES, WHETHER CAUSED BY NEGLIGENCE, OVERSIGHT, OR PROJECT SCOPE CHANGE.
- CONTRACTOR SHALL MOVE MAINTENANCE OF TRAFFIC COMPONENTS AT THE WRITTEN DIRECTION OF THE RESIDENT ENGINEER AT NO ADDITIONAL COST.
- CONTRACTOR SHALL NOT REMOVE THE BARRICADES WITHOUT THE APPROVAL BY THE RESIDENT ENGINEER.
- CONTRACTOR SHALL MAINTAIN FLASHERS, SIGNS AND/OR BARRICADES AS REQUIRED BY THE PLANS, CITY OR COUNTY REGULATIONS OR CONTRACTOR ACTIVITIES. CONTRACTOR SHALL OBTAIN ANY AND ALL REQUIRED LOCAL PERMITS UNLESS SPECIFIED OTHERWISE.
- THE CONTRACTOR SHALL UTILIZE WATER AND/OR CHEMICALS APPROVED BY THE RESIDENT ENGINEER AS NECESSARY TO CONTROL DUST.
- NO CONSTRUCTION VEHICLES SHALL BE DRIVEN ACROSS ANY ACTIVE RUNWAY, INCLUDING TURF RUNWAYS. CONSTRUCTION EQUIPMENT OR CONSTRUCTION ACTIVITY WILL NOT BE PERMITTED WITHIN 250' OF ANY ACTIVE RUNWAY CENTERLINE OR WITHIN 93' OF ANY OTHER ACTIVE AIRPORT TAXIWAY OR APRON. HOWEVER, CONSTRUCTION MAY BE PERMITTED IN THESE AREAS IF THE CONTRACTOR HAS GAINED APPROVAL FROM THE AIRPORT MANAGER AT LEAST 7 DAYS IN ADVANCE OF THE SCHEDULED CONSTRUCTION PERIOD AND THE OPERATIONAL AREA IS CLOSED TO TRAFFIC AND PROPER NOTAMS ARE ISSUED BY THE AIRPORT MANAGER TO THE APPROPRIATE FLIGHT SERVICE STATION.
- UNLESS SPECIFIED OTHERWISE, COST FOR THE ABOVE IS TO BE CONSIDERED INCIDENTAL TO THE PROJECT. SEPARATE PAYMENT SHALL NOT BE MADE.



- TEMPORARY CLOSURE CROSS MARKINGS SHALL BE "AVIATION YELLOW."
- TEMPORARY CLOSURE CROSS MARKINGS SHALL BE CONSTRUCTED OF PLYWOOD, SNOW FENCE OR APPROVED FABRIC AND SHALL BE SECURED TO PAVEMENT BY SANDBAGS OR OTHER APPROVED METHOD.
- COST FOR PROVIDING, PLACING, MAINTAINING, AND REMOVING CLOSURE CROSSES SHALL BE INCLUDED IN ITEM AR150530 TRAFFIC MAINTENANCE.

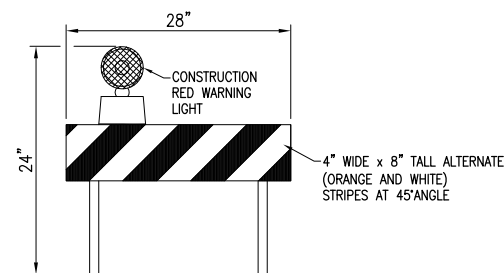
**CLOSURE CROSS MARKER DETAIL**

NOT TO SCALE



**SIGNAGE NOTES**

- ALL CONSTRUCTION SIGNS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE ILLINOIS SUPPLEMENT (LATEST EDITION) AND THE FAA ADVISORY CIRCULARS (LATEST EDITION) UNLESS NOTED OTHERWISE. THE FAA OR MORE STRINGENT SPECIFICATIONS SHALL GOVERN.
- UNLESS OTHERWISE SPECIFIED, CONSTRUCTION SIGNS SHALL BE MOUNTED ON PORTABLE OR NON-PORTABLE SUPPORTS. A PORTABLE SUPPORT IS DEFINED AS A TYPICAL SIGN STANDARD AS SHOWN ON THIS SHEET, OR A SMALL LIGHT WEIGHT TRAILER. A NON-PORTABLE SUPPORT IS DEFINED AS DRIVEN METAL OR WOOD POST. ALL SIGNS, REGARDLESS OF THE TYPE OF SUPPORTS USED, SHALL BE MOUNTED SUCH THAT THE MESSAGE ON THE SIGN IS LEVEL IN THE HORIZONTAL PLANE AFTER PLACEMENT. THE COST OF CONSTRUCTION WARNING LIGHTS SHALL BE INCLUDED IN THE COST OF THE CONSTRUCTION SIGNS.
- CONSTRUCTION RED WARNING LIGHTS- THESE ARE PORTABLE, LENS DIRECTED, ENCLOSED LIGHTS. THE COLOR OF THE LIGHT EMITTED SHALL BE RED. THEY ARE TO BE USED IN A LOW INTENSITY FLASHING MODE (TYPE A).
- THE LIGHTING SHALL BE MAINTAINED IN OPERATION DURING THE HOURS OF DARKNESS BETWEEN 1/2 HOUR AFTER SUNSET AND 1/2 HOUR BEFORE SUNRISE AND WHEN CONDITIONS EXIST WHICH TEND TO OBSCURE VISION.
- COST FOR PROVIDING, PLACING, MAINTAINING, AND REMOVING SIGNS SHALL BE INCLUDED IN ITEM AR150520 MOBILIZATION.

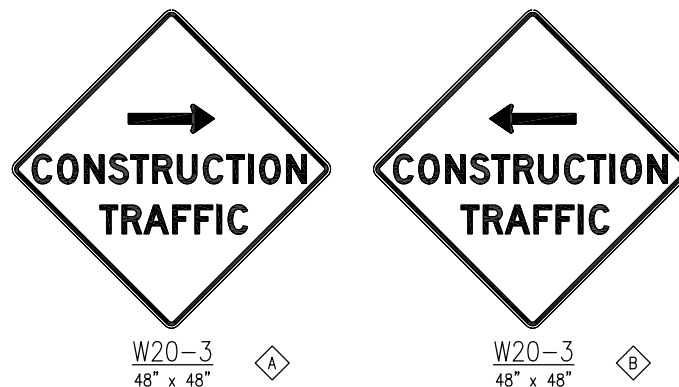


**MODIFIED TYPE II BARRICADE**

NOT TO SCALE

**BARRICADE NOTES**

- ALL CONSTRUCTION SIGNS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE ILLINOIS SUPPLEMENT (LATEST EDITION) AND THE FAA ADVISORY CIRCULARS (LATEST EDITION) UNLESS NOTED OTHERWISE. THE FAA OR MORE STRINGENT SPECIFICATIONS SHALL GOVERN.
- MODIFIED TYPE II BARRICADES SHALL BE SPACED END TO END THE WIDTH OF THE PAVEMENT IN 4' INCREMENTS. BARRICADES ARE TO BE SET BACK 93' FROM THE ACTIVE TAXIWAY CENTERLINE OR AS SHOWN ON THE PLANS.
- CONSTRUCTION RED WARNING LIGHTS- THESE ARE PORTABLE, LENS DIRECTED, ENCLOSED LIGHTS. THE COLOR OF THE LIGHT EMITTED SHALL BE RED. THEY MAY BE USED IN EITHER A STEADY BURN (TYPE C) OR LOW INTENSITY FLASHING MODE (TYPE A) UNLESS NOTED OTHERWISE.
- THE LIGHTING SHALL BE MAINTAINED IN OPERATION DURING THE HOURS OF DARKNESS BETWEEN 1/2 HOUR AFTER SUNSET AND 1/2 HOUR BEFORE SUNRISE AND WHEN CONDITIONS EXIST WHICH TEND TO OBSCURE VISION.
- BARRICADES SHALL BE SECURED TO THE GROUND BY APPROVED METHODS TO PREVENT MOVEMENT BY PROP WASH, JET BLAST OR OTHER WIND CURRENTS.
- THE ONLY COLOR COMBINATION ON TYPE II BARRICADES IS ORANGE AND WHITE. THE ORANGE STRIPES SHALL BE ENCAPSULATED LENS REFLECTIVE SHEETING. THE WHITE STRIPES SHALL BE EITHER ENCAPSULATED OR ENCLOSED LENS REFLECTIVE SHEETING AND MUST BE IN ACCEPTABLE CONDITION.
- COST FOR PROVIDING, PLACING, MAINTAINING, AND REMOVING BARRICADES SHALL BE INCLUDED IN ITEM AR150530 TRAFFIC MAINTENANCE.



**CONSTRUCTION SIGNS**

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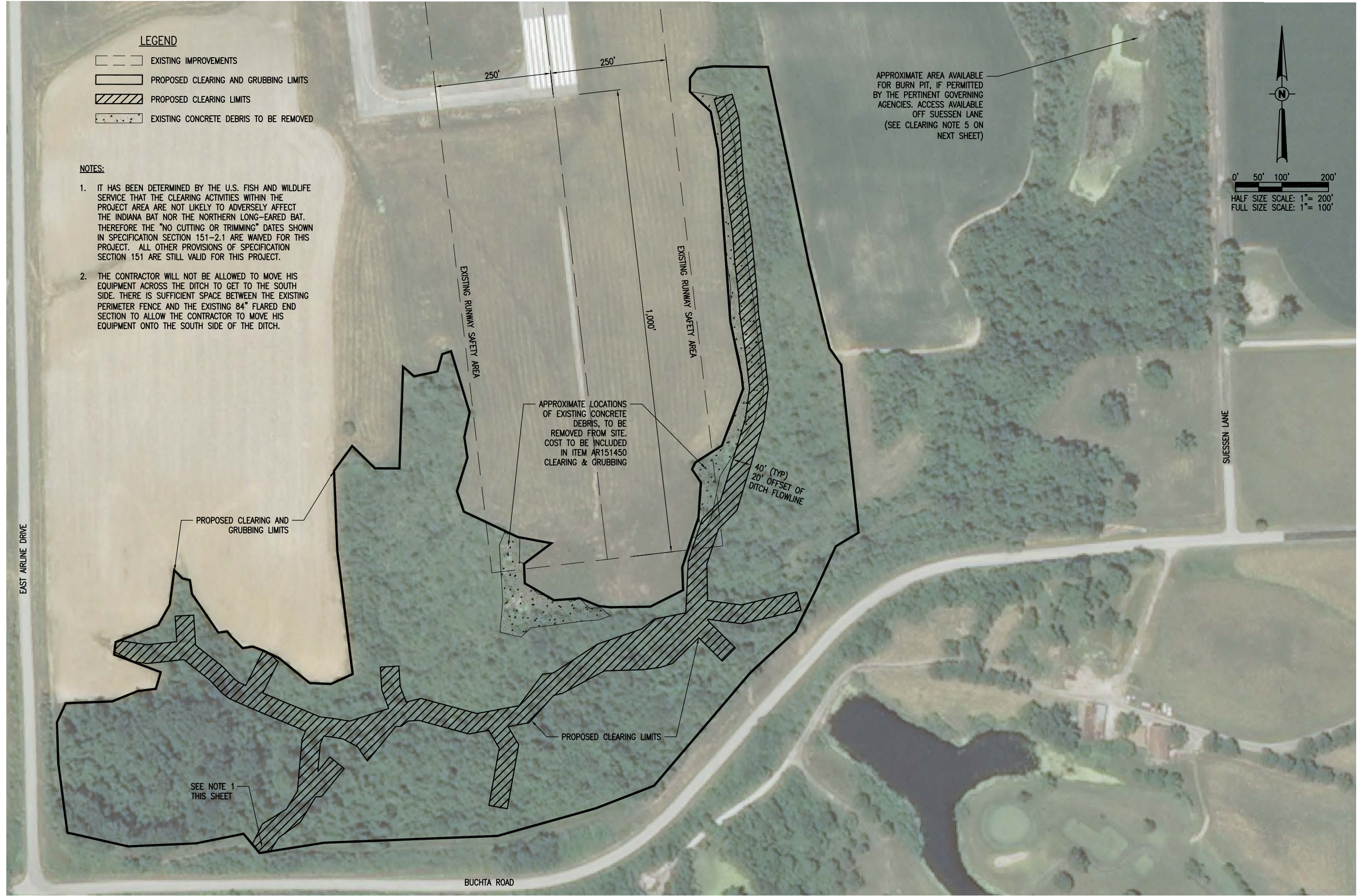
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EAST ALTON, ILLINOIS	
BLOCK GRANT PROJ.: 3-17-0002-B48	
IL PROJ.: ALN-4139	

Hanson Project No.	11A0098D
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**CLEARING, GRADING, AND DRAINAGE TO RUNWAY 35 RSA**  
**CONSTRUCTION SAFETY AND PHASING DETAILS AND NOTES**

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- LEGEND**
- EXISTING IMPROVEMENTS
  - PROPOSED CLEARING AND GRUBBING LIMITS
  - PROPOSED CLEARING LIMITS
  - EXISTING CONCRETE DEBRIS TO BE REMOVED

- NOTES:**
1. IT HAS BEEN DETERMINED BY THE U.S. FISH AND WILDLIFE SERVICE THAT THE CLEARING ACTIVITIES WITHIN THE PROJECT AREA ARE NOT LIKELY TO ADVERSELY AFFECT THE INDIANA BAT NOR THE NORTHERN LONG-EARED BAT. THEREFORE THE "NO CUTTING OR TRIMMING" DATES SHOWN IN SPECIFICATION SECTION 151-2.1 ARE WAIVED FOR THIS PROJECT. ALL OTHER PROVISIONS OF SPECIFICATION SECTION 151 ARE STILL VALID FOR THIS PROJECT.
  2. THE CONTRACTOR WILL NOT BE ALLOWED TO MOVE HIS EQUIPMENT ACROSS THE DITCH TO GET TO THE SOUTH SIDE. THERE IS SUFFICIENT SPACE BETWEEN THE EXISTING PERIMETER FENCE AND THE EXISTING 84" FLARED END SECTION TO ALLOW THE CONTRACTOR TO MOVE HIS EQUIPMENT ONTO THE SOUTH SIDE OF THE DITCH.

APPROXIMATE AREA AVAILABLE FOR BURN PIT, IF PERMITTED BY THE PERTINENT GOVERNING AGENCIES. ACCESS AVAILABLE OFF SUESSEN LANE (SEE CLEARING NOTE 5 ON NEXT SHEET)

APPROXIMATE LOCATIONS OF EXISTING CONCRETE DEBRIS, TO BE REMOVED FROM SITE. COST TO BE INCLUDED IN ITEM AR151450 CLEARING & GRUBBING

40' (TYP) 20' OFFSET OF DITCH FLOWLINE

SEE NOTE 1 THIS SHEET

<b>6</b>	<p>CLEARING, GRADING, AND DRAINAGE TO RUNWAY 35 RSA</p> <p>PROPOSED CLEARING PLAN</p>									
<p>6 of 23 sheets</p>										
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<p>ST. LOUIS REGIONAL AIRPORT                    EAST ALTON, ILLINOIS                  BLOCK GRANT PROJ.: 3-17-0002-B48                  IL PROJ.: ALN-4139</p>										
<p>Hanson Project No. 11A0098D                  Filename C-191-P CLEARING.dwg                  Scale 1"=100'                  Date 01/31/14</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">LAYOUT</td> <td style="width: 10%;">JRH</td> <td style="width: 10%;">01/29/14</td> </tr> <tr> <td>DRAWN</td> <td>JRH</td> <td>01/29/14</td> </tr> <tr> <td>REVIEWED</td> <td>BSS</td> <td>01/29/14</td> </tr> </table>	LAYOUT	JRH	01/29/14	DRAWN	JRH	01/29/14	REVIEWED	BSS	01/29/14
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REVIEWED	BSS	01/29/14								
<p>REVISION</p>	<p>DATE</p>									

**162 CLASS "E" GATE NOTES:**

1. THIS ITEM OF WORK SHALL CONSIST OF INSTALLING A CLASS "E" DOUBLE SWING GATE - 30' WIDE IN ACCORDANCE WITH ITEM 162 AS STATED ON PAGE 289 OF THE ILLINOIS STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED APRIL 1, 2012.
2. THE PROPOSED GATE WILL BE 10' TALL WITH THREE STRANDS OF BARB WIRE.
3. THE PROPOSED GATE WILL BE INSTALLED IN THE EXISTING PERIMETER FENCE AT THE LOCATION OF THE PROPOSED HAUL ROUTE. THE CONTRACTOR WILL REMOVE A SUFFICIENT AMOUNT OF THE EXISTING FENCE TO ALLOW THE INSTALLATION OF THE PROPOSED GATE. THE REMOVED FENCING MATERIAL (FABRIC AND POSTS) WILL BE TURNED OVER TO THE AIRPORT. THE REMOVAL OF THE EXISTING FENCE WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE INSTALLATION OF THE PROPOSED CLASS E GATE - 30' AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
4. ALL STEEL PRODUCTS (POSTS, FABRIC, CLIPS, ETC.) MUST BE CERTIFIED OF MANUFACTURE IN THE UNITED STATES OF AMERICA FROM DOMESTIC MATERIALS IN ACCORDANCE WITH THE BUY AMERICAN REQUIREMENTS. NO PAYMENT WILL BE MADE ON THIS ITEM OF WORK WITHOUT APPROVED CERTIFICATION.
5. THE PROPOSED GATE WILL BE PAID FOR UNDER:  
AR162630 CLASS E GATE - 30' \_ \_ PER EACH.

**CLEARING NOTES**

1. THE AREA DESIGNATED FOR CLEARING IS SHOWN ON SHEET NO. 6. ALL OF THIS AREA IS LOCATED ON EXISTING AIRPORT PROPERTY.
2. THE LIMITS OF THE PROPOSED AREA TO BE CLEARED WILL BE 20' LEFT AND RIGHT OF THE CENTER OF THE DITCH. THE LAST 650 FEET OF THE DITCH WILL FLARE OUT ON THE SOUTH SIDE OF THE DITCH TO INCLUDE THE VERY STEEP SLOPES THAT ARE IN THIS AREA. SEE SHEET NO. 6 FOR THE APPROXIMATE LIMITS OF THE PROPOSED CLEARING.
3. THE AREA DESIGNATED FOR CLEARING WILL BE LOCATED AND MARKED BY THE RESIDENT ENGINEER.
4. THE AREA DESIGNATED FOR CLEARING WILL HAVE THE LARGE TREES CUT DOWN AND REMOVED FROM THE AREA WITHOUT ANY EQUIPMENT DISTURBING THE DITCH. THE CONTRACTOR WILL LEAVE A STUMP THAT IS 2' -4' OUT OF THE GROUND. ANY EXISTING DOWNED TREES/LOGS WILL BE REMOVED AS WELL FROM THIS AREA WITHOUT ANY EQUIPMENT DISTURBING THE DITCH. ALL THE SMALL TREES (UP TO A DIAMETER OF 4 INCHES) AND BRUSH LOCATED IN THIS AREA WILL BE REMOVED BY ANY MEANS THAT WILL REMOVE THE TREE/BRUSH BUT LEAVE THE TREE STUMP (1 OR 2 INCHES ABOVE THE SURROUNDING GROUND) AND ROOT SYSTEM INTACT.
5. IF PERMITTED BY THE PERTINENT GOVERNING AUTHORITIES, THE CONTRACTOR MAY BURN AND BURY THE CLEARED TREES ON AIRPORT PROPERTY (NO PITS/BURNING WILL BE ALLOWED IN THE PROPOSED CLEARING AREA). IF BURNING AND BURIAL IS NOT PERMITTED, THE CONTRACTOR MUST DISPOSE OF THE TREES OFF THE AIRPORT PROPERTY. THE BURNING AND BURIAL LOCATION OF THE TREES WILL BE AT LEAST 750 FEET FROM THE CENTERLINE OF RUNWAY 17-35 EXTENDED AND APPROVED BY THE ENGINEER.
6. THERE WILL BE AT LEAST TWO FEET OF EARTH PLACED OVER THE BURIED MATERIAL. ALL BURIAL AREAS WILL BE GRADED AND SEEDED.
7. AFTER THE CONTRACTOR HAS REMOVED ALL TREES, DOWNED TREES, BRUSH AND OTHER DEAD VEGETATIVE MATERIAL FROM THE AREA CLEARED, HE WILL PLACE A SILT FENCE AROUND THE PERIMETER OF THIS AREA AS SHOWN ON SHEET NO. 11. NO SEEDING OR MULCHING WILL BE REQUIRED IN THIS CLEARED AREA.
8. CLEARING, HANDLING AND DISPOSAL OF ALL DEAD VEGETATIVE WASTE MATERIAL FROM THE DESIGNATED AREA WILL BE PAID FOR UNDER:  
AR151410 CLEARING - - PER ACRE.

**CLEARING AND GRUBBING NOTES**

1. THE AREAS DESIGNATED FOR CLEARING AND GRUBBING ARE SHOWN ON SHEET NO. 6. ALL OF THESE AREAS ARE LOCATED ON EXISTING AIRPORT PROPERTY.
2. ALL CLEARING AND GRUBBING WILL BE LOCATED AND MARKED BY THE RESIDENT ENGINEER.
3. IF PERMITTED BY THE PERTINENT GOVERNING AUTHORITIES, THE CONTRACTOR MAY BURN AND BURY THE CLEARED TREES ON AIRPORT PROPERTY. IF BURNING AND BURIAL IS NOT PERMITTED, THE CONTRACTOR MUST DISPOSE OF THE TREES OFF THE AIRPORT PROPERTY. THE BURNING AND BURIAL LOCATION OF THE TREES WILL BE AT LEAST 750 FROM RUNWAY 17-35 CENTERLINE EXTENDED AND APPROVED BY THE ENGINEER AND AIRPORT MANAGER.
4. THERE WILL BE AT LEAST TWO FEET OF EARTH PLACED OVER THE BURIED MATERIAL. ALL BURIAL AREAS WILL BE GRADED AND SEEDED.
5. AT THE DISCRETION OF THE CONTRACTOR HE WILL BE ALLOWED TO MULCH THE CLEARED TREES. THE CONTRACTOR WILL BE ALLOWED TO STOCKPILE THE MULCH BUT THE PILE CANNOT EXCEED 20 FEET.
6. ALL AREAS BEING CLEARED AND GRUBBED WILL BE SMOOTH GRADED, SEEDED AND MULCHED IN ACCORDANCE WITH ITEM 901 "SEEDING" AND ITEM 908 "MULCHING". THE COST FOR GRADING OF CLEARED & GRUBBED AREAS IS TO BE INCLUDED IN THE COST OF ITEM AR151450 CLEARING & GRUBBING. THE COST FOR SEEDING AND MULCHING IS TO BE PAID FOR UNDER THEIR RESPECTIVE PAY ITEMS AR901510 AND AR908510.
7. CLEARING, GRUBBING AND DISPOSAL OF THE DESIGNATED AREAS WILL BE PAID FOR UNDER: ITEM AR151450 "CLEARING AND GRUBBING - - ACRES.

**NOTES TO THE CONTRACTOR**

1. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMISSION AND ANY APPLICABLE PERMITS TO USE THE ROADS (FEDERAL, STATE, COUNTY, TOWNSHIP AND CITY) THAT HE WILL USE TO ACCESS THE PROPOSED AIRPORT CONSTRUCTION SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KNOW ANY AND ALL RESTRICTIONS PLACED ON THE ROADS HE WILL BE USING. THE CONTRACTOR WILL CONTACT ALL APPLICABLE GOVERNING BODIES PRIOR TO THE LETTING OF THIS PROJECT TO DETERMINE THOSE RESTRICTIONS AND APPLICABLE PERMITTING. THE CONTRACTOR WILL BE RESPONSIBLE FOR ROAD MAINTENANCE, CLEANUP AND ANY OTHER REQUIREMENTS AGREED UPON FOR THE RIGHT TO USE THE ROADS.
2. ANY DAMAGE TO EXISTING AIRPORT IMPROVEMENTS (FENCING, DRAINAGE, ETC.) WILL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE RESIDENT ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.

**901 SEEDING NOTES**

1. THE PROPOSED SEEDING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ITEM 901 "SEEDING" AS STATED ON PAGE 319 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED APRIL 1, 2012.
2. ALL AREAS LOCATED WITHIN THE PROPOSED CLEARING AND GRUBBING LIMITS BUT OUTSIDE THE PROPOSED CLEARING LIMITS WILL BE SEEDED IN ACCORDANCE WITH THE ABOVE NOTED SPECIFICATION.
3. ALL MATERIALS AND/OR DEBRIS RESULTING FROM THE SEEDING OPERATIONS WILL BE REMOVED FROM THE PROPOSED CONSTRUCTION AREA PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
4. DATE SEEDING COMPLETED\_\_\_\_\_.
5. THE PROPOSED SEEDING WILL BE PAID FOR UNDER ITEM:  
AR901510 SEEDING - - PER ACRE

**908 MULCHING NOTES**

1. THE PROPOSED MULCHING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ITEM 908 "MULCHING" AS STATED ON PAGE 330 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED APRIL 1, 2012.
2. THIS ITEM SHALL CONSIST OF THE FURNISHING, TRANSPORTING, AND PLACING MULCH OVER THE SEEDED AREA. DISTURBED AREAS OUTSIDE THE GRADING LIMITS SHALL ALSO BE MULCHED AND PARTICIPATION WILL BE THE SAME AS FOR SEEDED AREAS.
3. 908-2.1 MULCH MATERIAL: THE CONTRACTOR MAY EITHER FURNISH STRAW OR HYDROMULCH AS THE TYPE OF MULCH MATERIAL TO BE USED ON THIS PROJECT.
4. 908-3.1 MULCHING: THE HYDRAULIC MULCH SHALL BE APPLIED AS A SLURRY OF 2,500 POUNDS OF MULCH AND NOT LESS THAN 2,500 GALLONS OF WATER PER ACRE.
5. 908-3.4 STRUCTURE CLEANING: AFTER THE PROPOSED MULCH HAS BEEN APPLIED, THE CONTRACTOR WILL CLEAN THE MULCH OFF ALL STRUCTURES.
6. DATE MULCHING COMPLETED\_\_\_\_\_.
7. THE PROPOSED MULCHING WILL BE PAID FOR UNDER ITEM:  
AR908510 MULCHING - - PER ACRE

**TEMPORARY SEEDING DATA**

1. THE TEMPORARY SEEDING LIMITS SHALL CONSIST OF THE AREA INSIDE THE PROPOSED CLEARING AND GRUBBING LIMITS BUT OUTSIDE THE PROPOSED CLEARING LIMITS AS SHOWN ON SHEET NO 6. ALL AREAS WITHIN THESE LIMITS SHALL BE SEEDED IN ACCORDANCE WITH THE FOLLOWING FORMULA AND RATES OF APPLICATION.  
SEEDING (MINIMUM POUNDS OF PURE LIVE SEED PER ACRE)  
PERENNIAL RYEGRASS\_\_\_\_\_50  
SPRING OATS\*\_\_\_\_\_64  
\*OTHER SEEDS MAY BE USED IF APPROVED BY THE ENGINEER.  
AREA TO BE SEEDED\_\_\_\_\_21.3 ACRES  
DATE SEEDING COMPLETED\_\_\_\_\_
2. THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:  
AR156530 TEMPORARY SEEDING - - PER ACRE.

REVISION	DATE

ST. LOUIS REGIONAL AIRPORT



EAST ALTON, ILLINOIS

Block Grant PROJ.: 3-17-0002-B48  
IL PROJ.: ALN-4139

Hanson Project No. 11A00980	FILENAME C-001-NOTES.dwg	NOT TO SCALE	DATE 01/31/14
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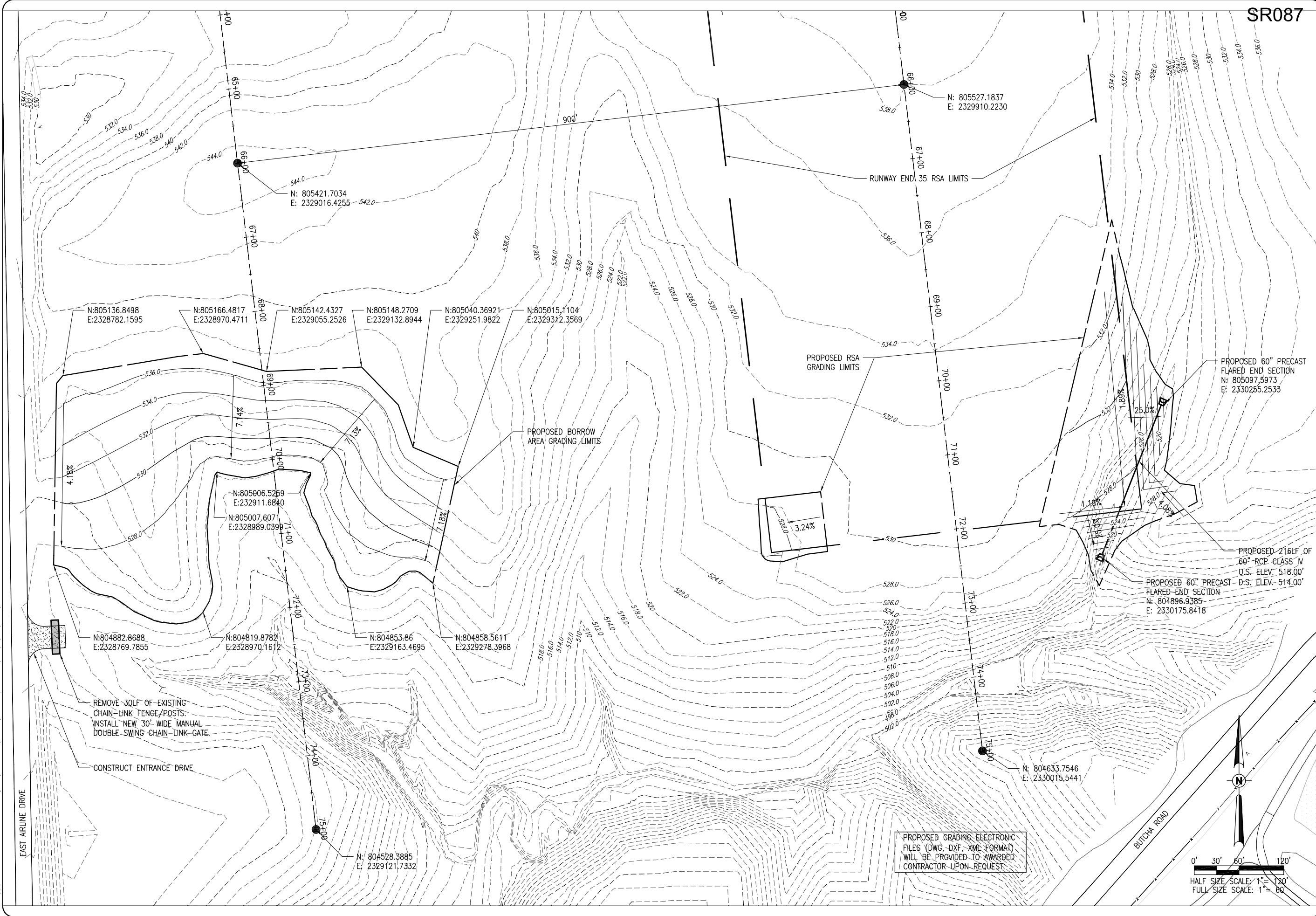
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CLEARING, GRADING,  
AND DRAINAGE TO  
RUNWAY 35 RSA

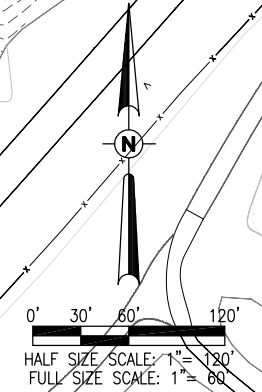
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PROPOSED GRADING ELECTRONIC FILES (DWG, DXF, XML FORMAT) WILL BE PROVIDED TO AWARDED CONTRACTOR UPON REQUEST.

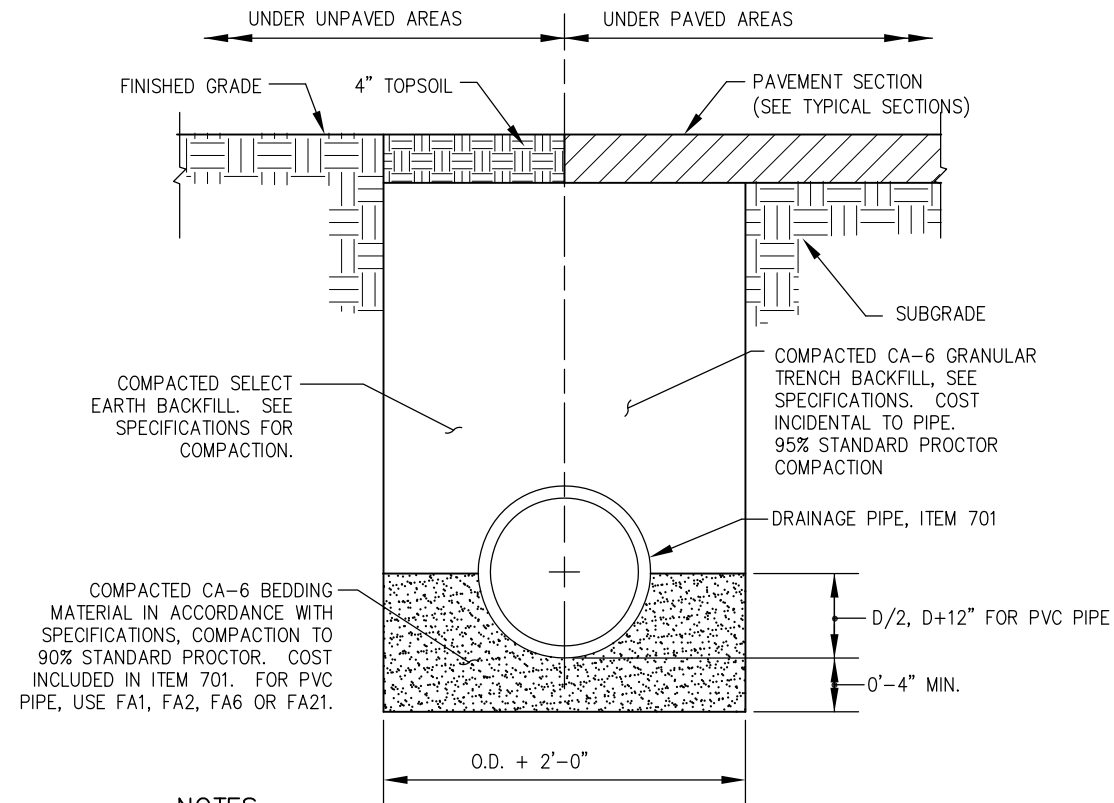


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ST. LOUIS REGIONAL AIRPORT			
EAST ALTON, ILLINOIS		BLOCK GRANT PROJ.: 3-17-0002-B48	
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Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62703-2886 Ph: (217) 788-2450 Fax: (217) 788-2503 www.hanson-inc.com Offices Nationwide		<b>CLEARING, GRADING, AND DRAINAGE TO RUNWAY 35 RSA</b> <b>PROPOSED CONSTRUCTION PLAN</b>	
8		8 of 23 sheets	



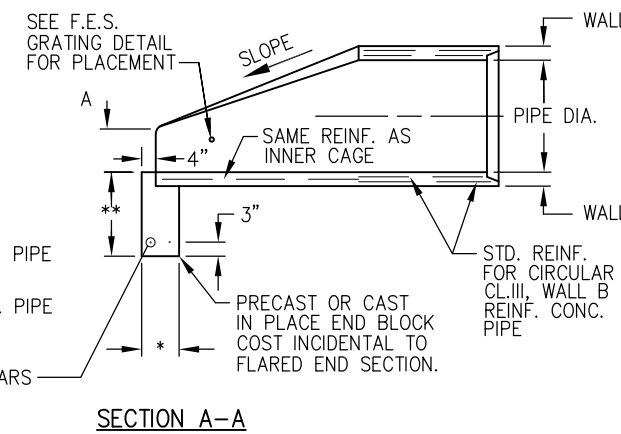
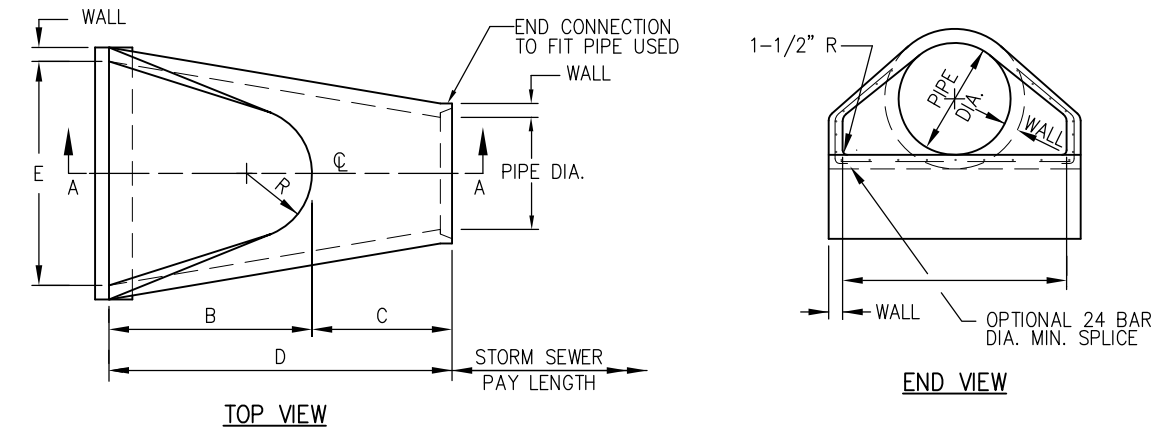




**NOTES**

1. UNSUITABLE MATERIAL ENCOUNTERED DURING PLACEMENT OF BEDDING SHALL BE REMOVED AND REPLACED.
2. WITHIN 3 FEET OF PAVED AREA, GRANULAR BACKFILL IS TO BE USED INSTEAD OF EARTH BACKFILL.
3. AT CONTRACTOR'S OPTION IDOT CONTROLLED LOW STRENGTH MATERIAL WITH A HIGH EARLY STRENGTH, "FLASH FILL", MAY BE USED INSTEAD OF GRANULAR TRENCH BACKFILL UNDER PAVEMENTS.

**PIPE TRENCH**



- \* 8" - 36" DIA. PIPE OR LESS
- 10" - GREATER THAN 36" DIA. PIPE
- \*\* 18" - 36" DIA. PIPE OR LESS
- 24" - GREATER THAN 36" DIA. PIPE

2 - NO. 4 BARS

**SECTION A-A**

PIPE DIA.	WALL	A	B	C	D	E	R	SLOPE
60"	6"	2'-11"	5'-0"	3'-3"	8'-3"	8'-0"	*	1:1.9

\* RADIUS AS FURNISHED BY MANUFACTURER

**PRECAST CONCRETE FLARED END SECTION**  
(IDOT STANDARD 542301-MODIFIED)

REVISION	DATE

ST. LOUIS REGIONAL AIRPORT  
  
 EAST ALTON, ILLINOIS  
 BLOCK GRANT PROJ.: 3-17-0002-B48  
 IL PROJ.: ALN-4139

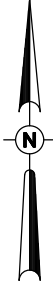
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Filename	C-001-NOTES.dwg
Scale	NOT TO SCALE
Date	01/31/14
LAYOUT	JRH 01/30/14
DRAWN	JRH 01/30/14
REVIEWED	BSS 01/30/14

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CLEARING, GRADING,  
 AND DRAINAGE TO  
 RUNWAY 35 RSA  
 DRAINAGE DETAILS







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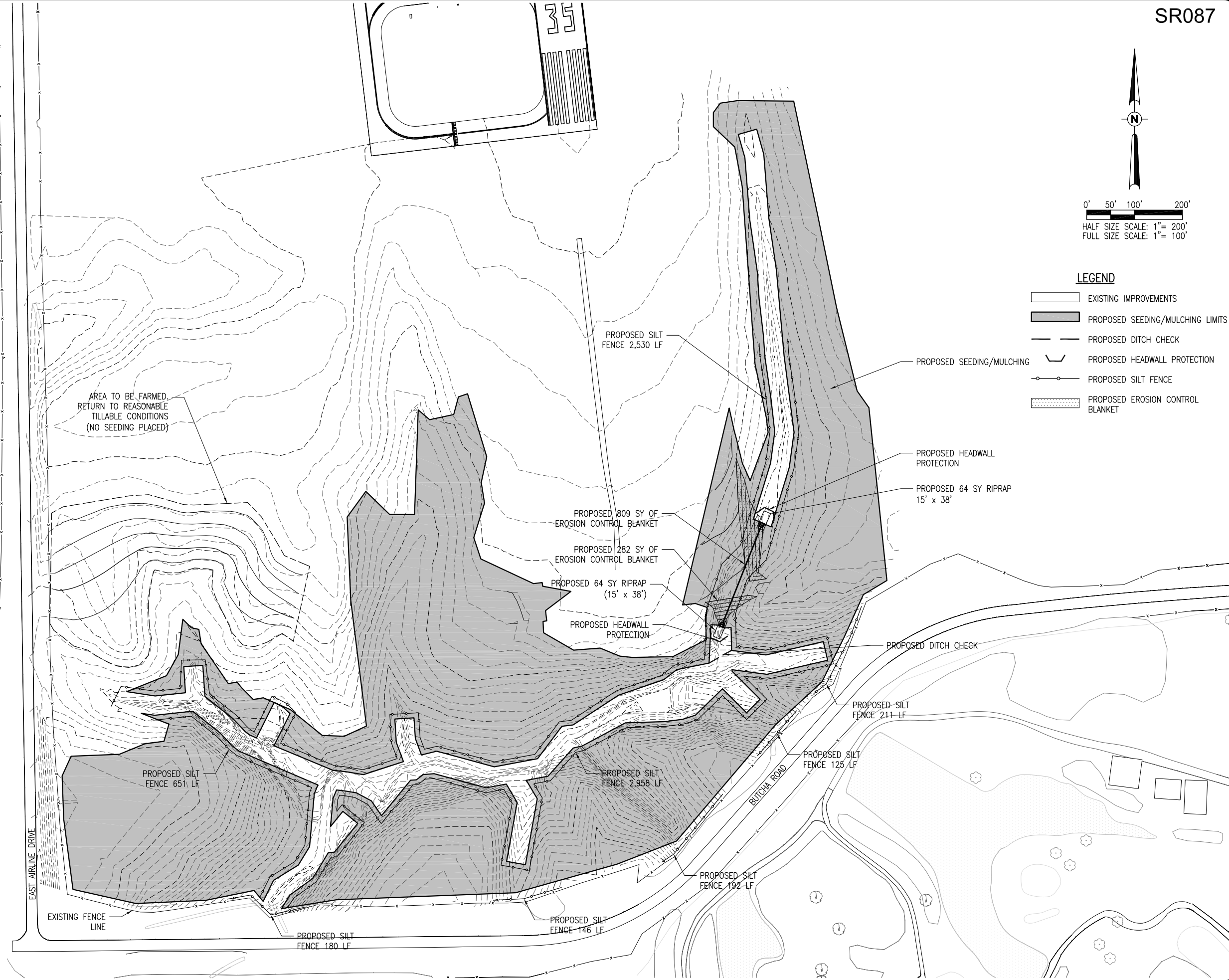
SR087



0' 50' 100' 200'  
 HALF SIZE SCALE: 1" = 200'  
 FULL SIZE SCALE: 1" = 100'

**LEGEND**

-  EXISTING IMPROVEMENTS
-  PROPOSED SEEDING/MULCHING LIMITS
-  PROPOSED DITCH CHECK
-  PROPOSED HEADWALL PROTECTION
-  PROPOSED SILT FENCE
-  PROPOSED EROSION CONTROL BLANKET



REVISION	DATE

ST. LOUIS REGIONAL AIRPORT  
  
 EAST ALTON, ILLINOIS  
 BLOCK GRANT PROJ.: 3-17-0002-B48  
 IL PROJ.: ALN-4139

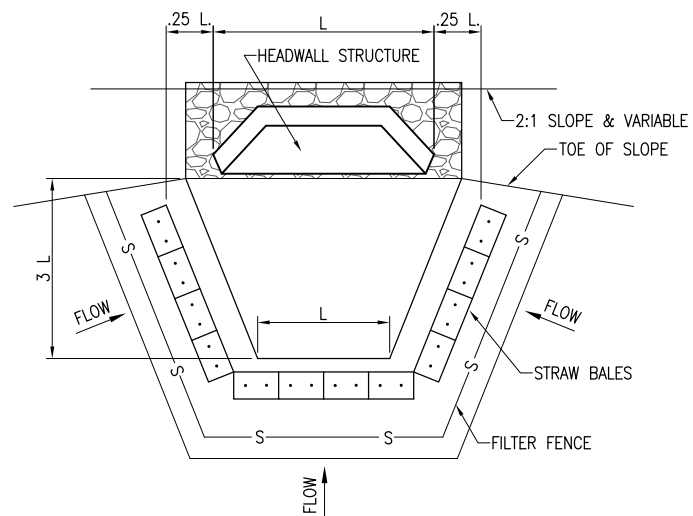
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LAYOUT	JRH 01/29/14
DRAWN	JRH 01/29/14
REVIEWED	BSS 01/29/14

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CLEARING, GRADING,  
 AND DRAINAGE TO  
 RUNWAY 35 RSA  
 PROPOSED STORMWATER  
 POLLUTION PREVENTION  
 PLAN

**EROSION CONTROL NOTES**

- ALL PROPOSED EROSION CONTROL MEASURES SHALL BE COMPLETED AS DETAILED ON THIS EROSION CONTROL PLAN AND IN ACCORDANCE WITH THE SPECIFICATIONS.
- EROSION CONTROL MEASURES ARE GOVERNED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S STANDARDS AND SPECIFICATIONS FOR SOIL EROSIONS AND SPECIFICATION FOR SOIL EROSIONS AND SEDIMENT CONTROL.
- EROSION CONTROL METHODS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM WATER DRAINAGE.
- COST OF REMOVAL AND/OR REPLACEMENT SHALL BE INCLUDED IN THE UNIT PRICE FOR SILT FENCE, HEADWALL PROTECTION, DITCH CHECK AND EROSION CONTROL BLANKET.
- HEADWALL PROTECTION
  - THE PROPOSED HEADWALL PROTECTION WILL BE PLACED AT THE LOCATIONS SHOWN ON SHEET NO. 11 AND AS DETAILED ON THIS SHEET.
  - INSPECTION OF THE HEADWALL PROTECTION SHALL BE FREQUENT AND REPAIR/REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
  - HEADWALL PROTECTION IS TO INCLUDE ALL INCIDENTALS NECESSARY TO CONSTRUCT THESE ITEMS AND WILL BE PAID FOR UNDER ITEM: AR156521 HEADWALL PROTECTION -- PER EACH.
- SILT FENCE
  - THE PROPOSED SILT FENCE WILL BE PLACED AT THE LOCATIONS SHOWN ON SHEET NO. 11 AND IN ACCORDANCE WITH THE DETAILS ON THIS SHEET.
  - INSPECTION OF THE SILT FENCE SHALL BE FREQUENT AND REPAIR/REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
  - SILT FENCE IS TO INCLUDE ALL INCIDENTALS NECESSARY TO CONSTRUCT THE SILT FENCE AND WILL BE PAID FOR UNDER ITEM: AR156510 SILT FENCE -- PER LIN. FT.
- DITCH CHECKS
  - THE PROPOSED DITCH CHECKS WILL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THIS SHEET. THE PROPOSED LOCATIONS SHOWN ON SHEET NO. 11 CAN BE MOVED TO BETTER CONTROL SILT IN THE DITCH THEY WILL BE LOCATED IN.
  - INSPECTION OF THE DITCH CHECKS SHALL BE FREQUENT AND REPAIR/REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
  - DITCH CHECKS ARE TO INCLUDE ALL INCIDENTALS NECESSARY TO CONSTRUCT THE DITCH CHECK AND WILL BE PAID FOR UNDER ITEM: AR156511 DITCH CHECK -- PER EACH.
- EROSION CONTROL BLANKET
  - AN EROSION CONTROL MATERIAL (KNITTED STRAW MAT) WILL BE INSTALLED IN THE AREAS THAT THE RESIDENT ENGINEER DETERMINES TO BE STEEP ENOUGH TO WARRANT THE EROSION CONTROL MATERIAL.
  - IF THE EROSION CONTROL MATERIAL IS USE THEN IT WILL REPLACE AN EQUAL AMOUNT OF MULCHING AND THE MULCHING QUANTITY WILL BE REDUCED.
  - THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM: AR156531 EROSION CONTROL BLANKET -- PER S.Y.

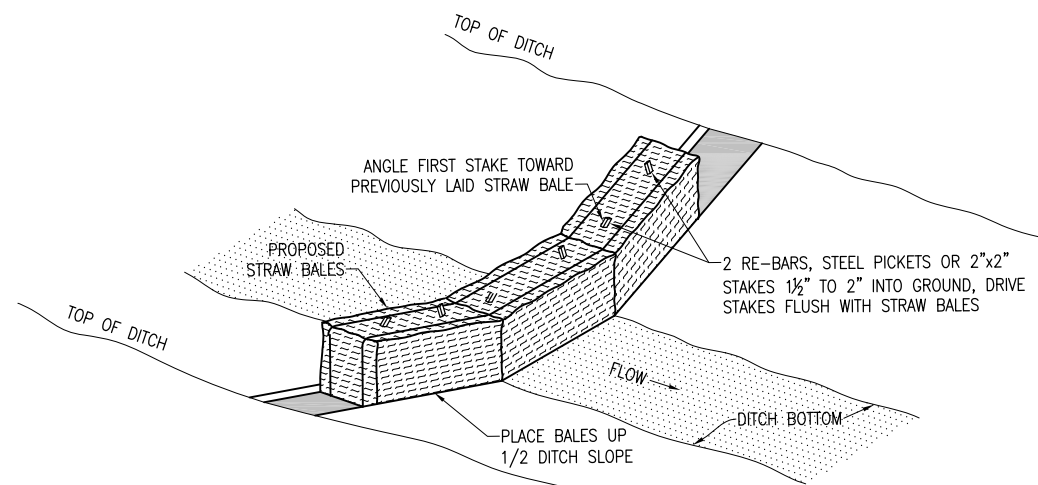


**HEADWALL STRUCTURE PROTECTION**

NOT TO SCALE

**NOTE:**

THE CONTRACTOR WILL FURNISH A SUFFICIENT NUMBER OF STRAW BALES TO CONSTRUCT A STRAW DIKE IN FRONT OF THE HEADWALL AS DEPICTED ABOVE.

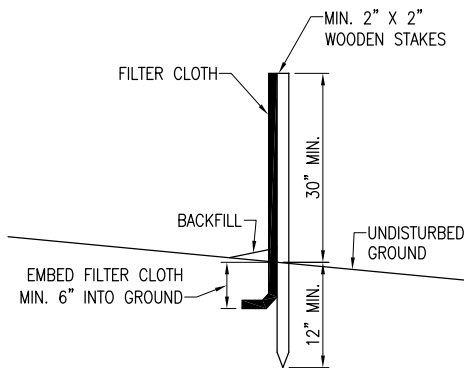


**DITCH CHECK DETAIL**

NOT TO SCALE

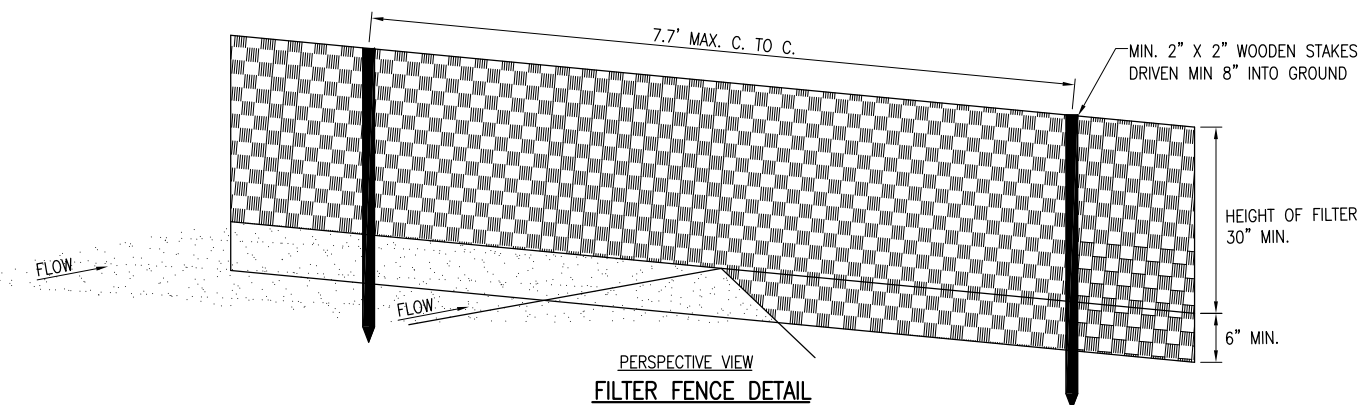
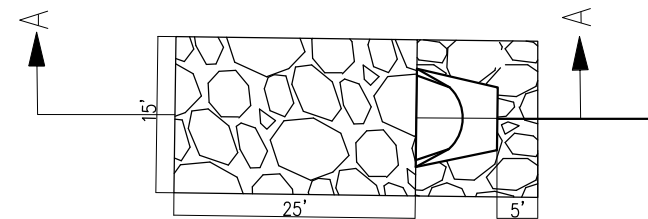
**NOTE:**

THE ABOVE DETAIL SHOWS HOW THE CONTRACTOR WILL PLACE THE STRAW BALES TO CONSTRUCT THE PROPOSED DITCH CHECK. THE ACTUAL NUMBER OF STRAW BALES USED WILL DEPEND ON THE SIZE OF DITCH BEING SPANNED.



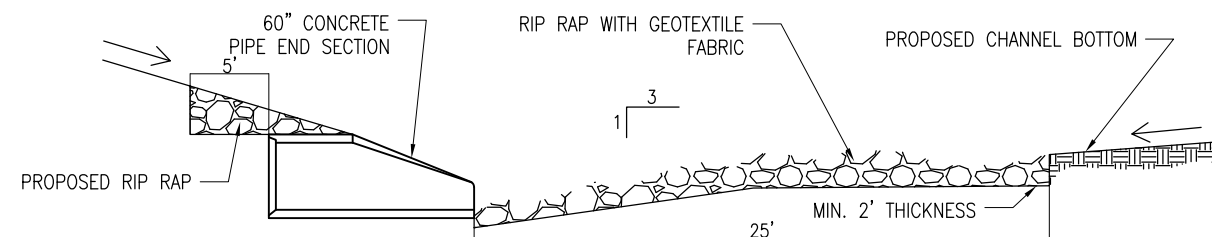
**SECTION FILTER FENCE DETAIL**

NOT TO SCALE



**PERSPECTIVE VIEW FILTER FENCE DETAIL**

NOT TO SCALE



**SECTION A-A**

**PROPOSED RIP RAP TYPICAL SECTION**

NOT TO SCALE

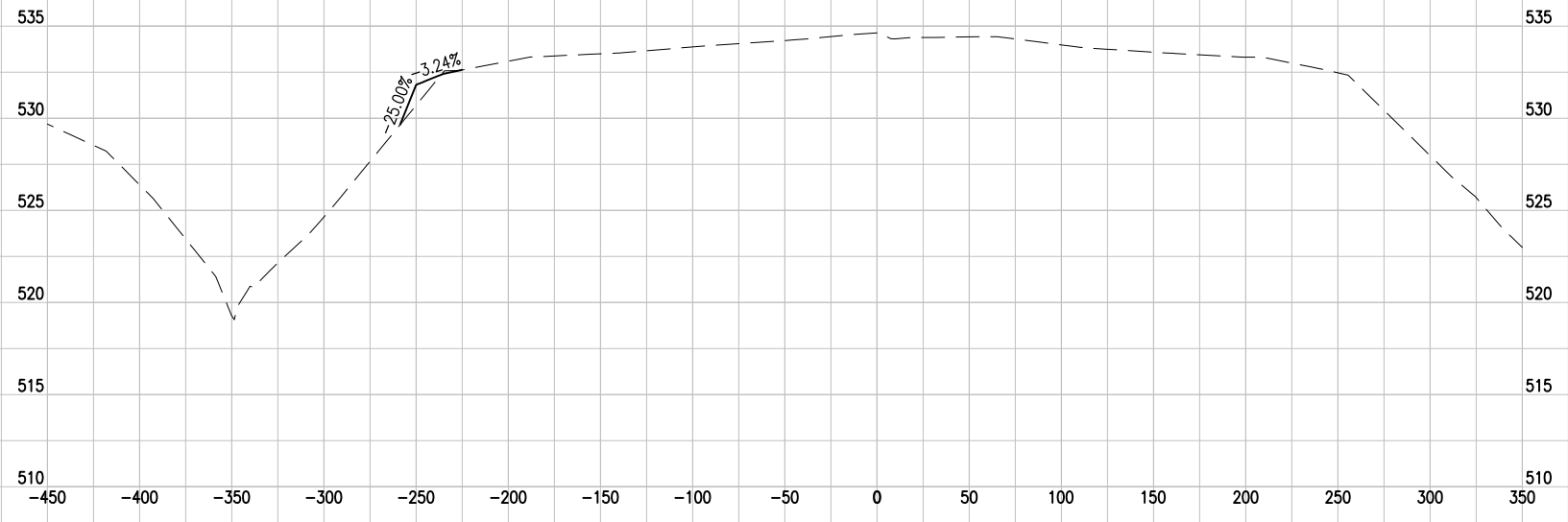
REVISION	DATE

ST. LOUIS REGIONAL AIRPORT  
 EAST ALTON, ILLINOIS  
 BLOCK GRANT PROJ.: 3-17-0002-B48  
 ILL. PROJ.: ALN-4139

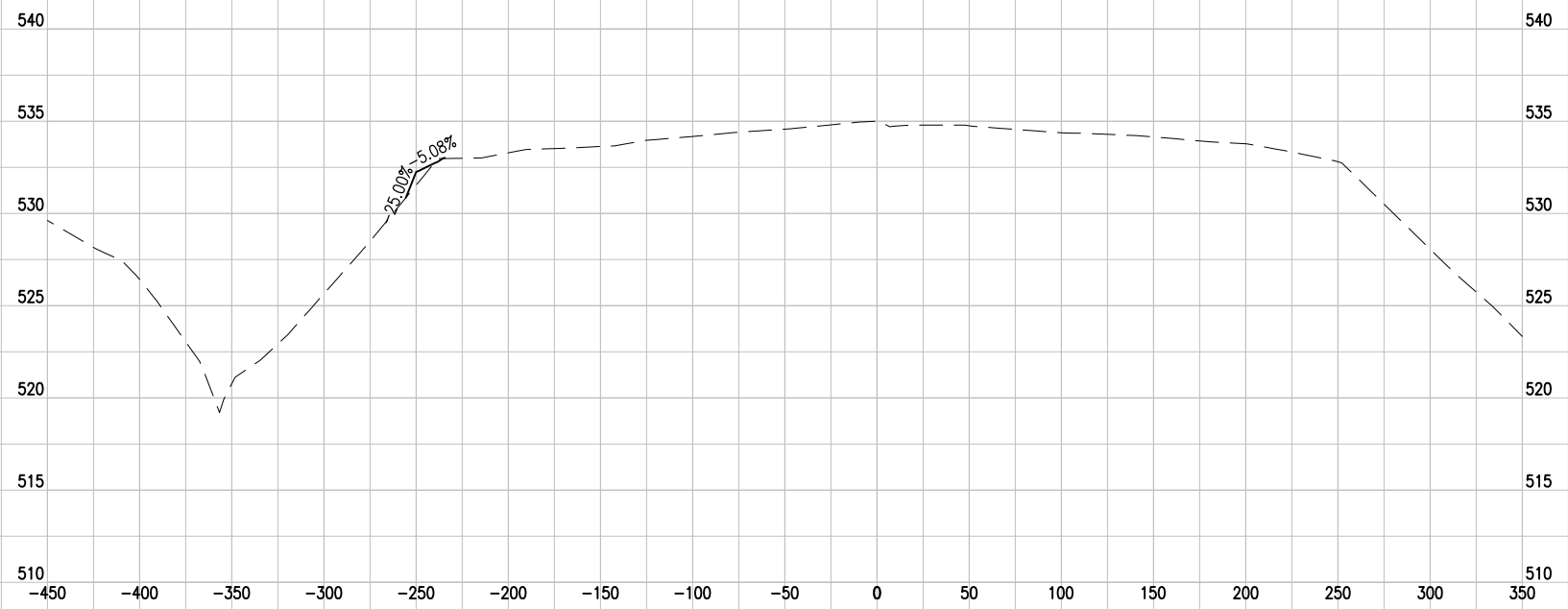
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LAYOUT	JRH 01/30/14
DRAWN	JRH 01/30/14
REVIEWED	BSS 01/30/14

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CLEARING, GRADING,  
 AND DRAINAGE TO  
 RUNWAY 35 RSA  
 PROPOSED STORMWATER  
 POLLUTION PREVENTION  
 DETAILS



STA.  
69+25



STA.  
69+00

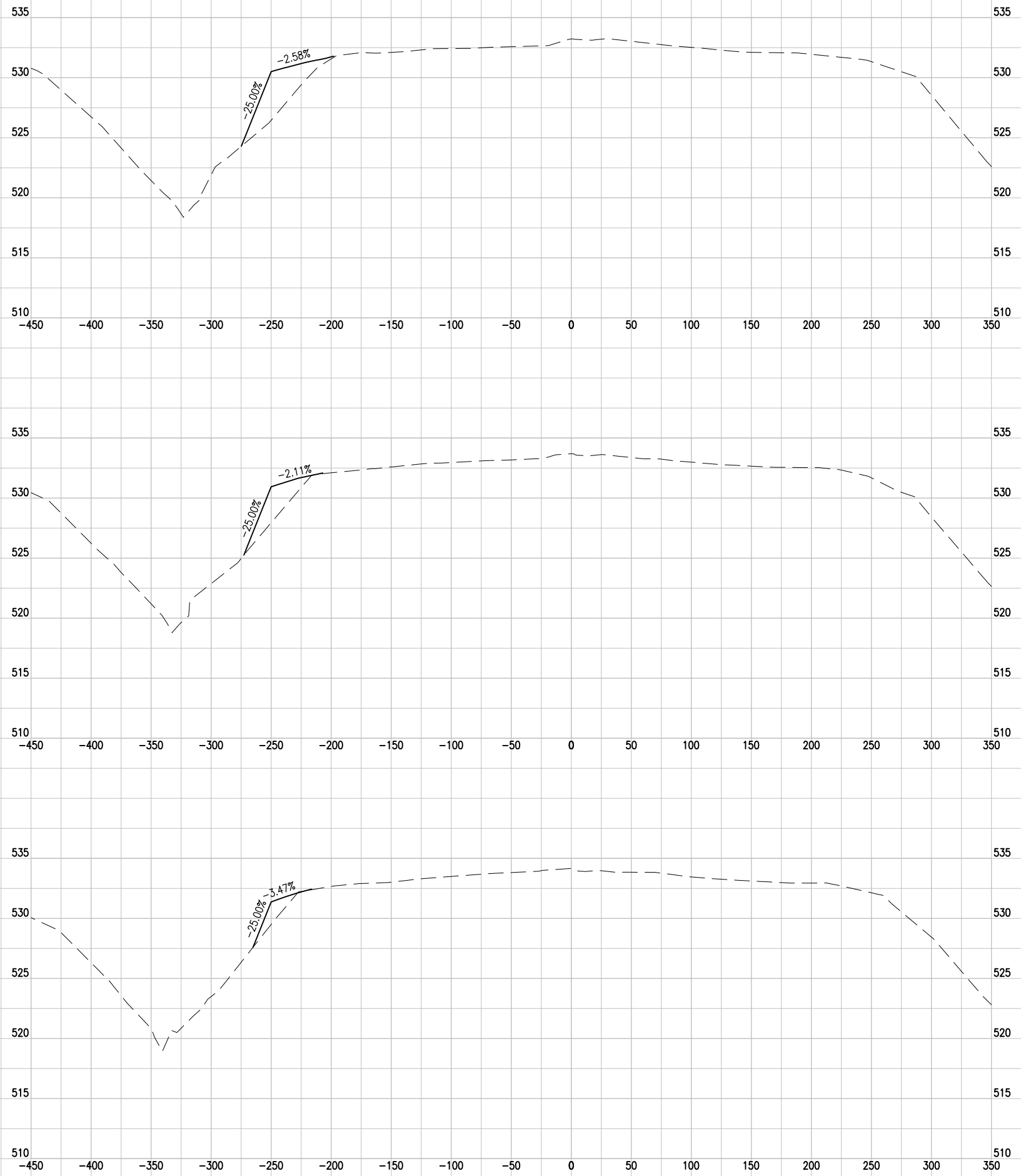
DATE	REVISION

ST. LOUIS REGIONAL AIRPORT  
  
 EAST ALTON, ILLINOIS  
 IL. PROJ.: ALN-4139 BLOCK GRANT PROJ.: 3-17-002-B48

Hanson Project No. 11A0098D	
Filename	C-301-XS.dwg
Scale	AS SHOWN
Date	01/31/14
LAYOUT	JRH 01/30/14
DRAWN	JRH 01/30/14
REVIEWED	BSS 01/30/14

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CLEARING, GRADING,  
 AND DRAINAGE TO  
 RUNWAY 35 RSA  
 RSA CROSS SECTIONS  
 STA 69+00 TO 69+25



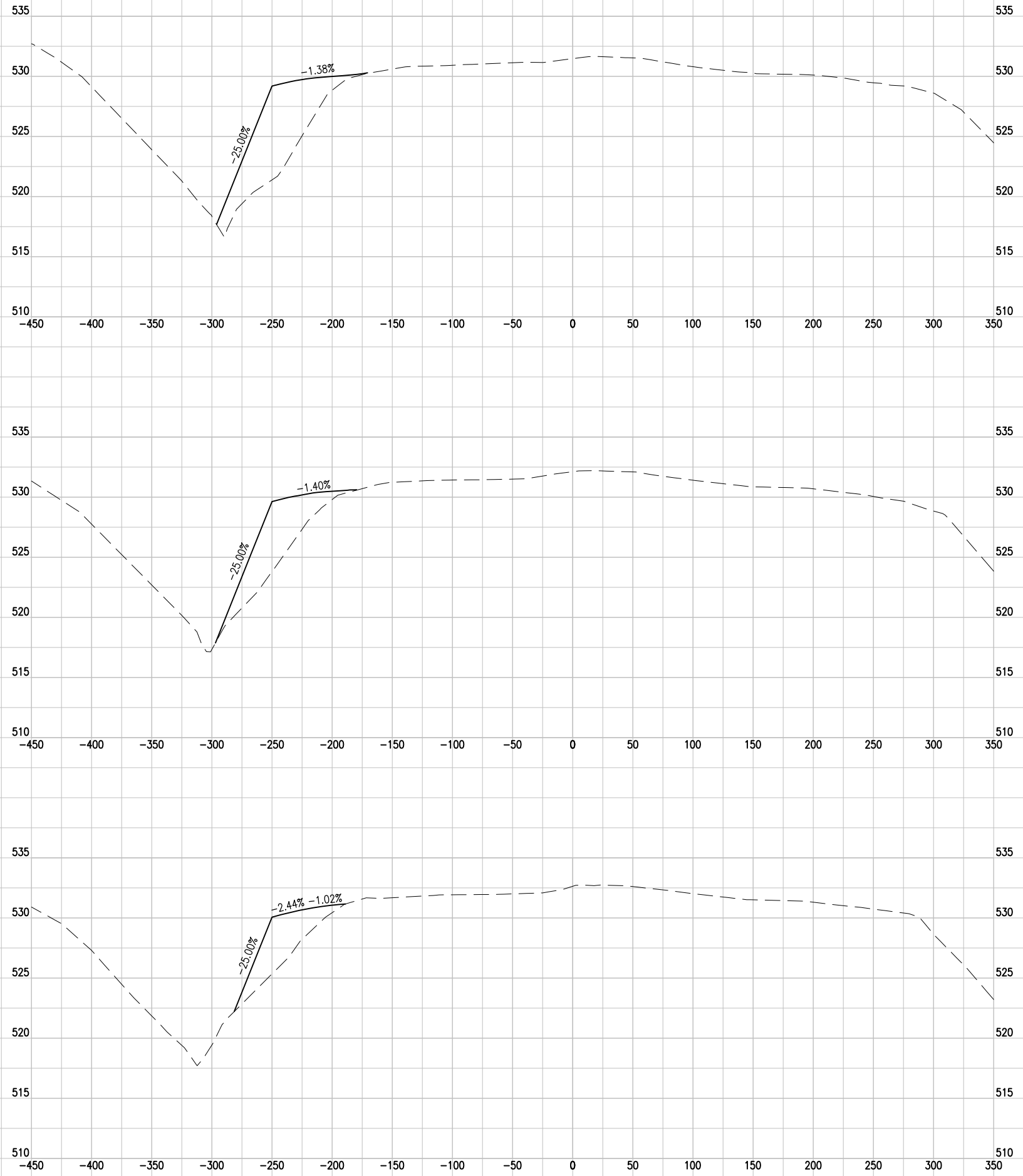
STA.  
70+00

STA.  
69+75

STA.  
69+50

SR087

<p><b>ST. LOUIS REGIONAL AIRPORT</b></p> <p><b>St. Louis Regional Airport</b></p> <p><b>EAST ALTON, ILLINOIS</b></p> <p>IL PROJ.: ALN-4139 BLOCK GRANT PROJ.: 3-17-002-B48</p>	
<p>Hanson Project No. 11A0098D                  Filename C-301-XS.dwg                  Scale AS SHOWN                  Date 01/31/14</p>	<p>LAYOUT JRH 01/30/14                  DRAWN JRH 01/30/14                  REVIEWED BSS 01/30/14</p>
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<p><b>CLEARING, GRADING,                  AND DRAINAGE TO                  RUNWAY 35 RSA</b></p> <p>RSA CROSS SECTIONS                  STA 69+50 TO 70+00</p>	
<p><b>14</b></p> <p>14 of 23 sheets</p>	
DATE	REVISION




STA.  
70+75

STA.  
70+50

STA.  
70+25

SR087

DATE	REVISION

ST. LOUIS REGIONAL AIRPORT  
  
 EAST ALTON, ILLINOIS  
 IL. PROJ.: ALN-4139 BLOCK GRANT PROJ.: 3-17-0002-B48

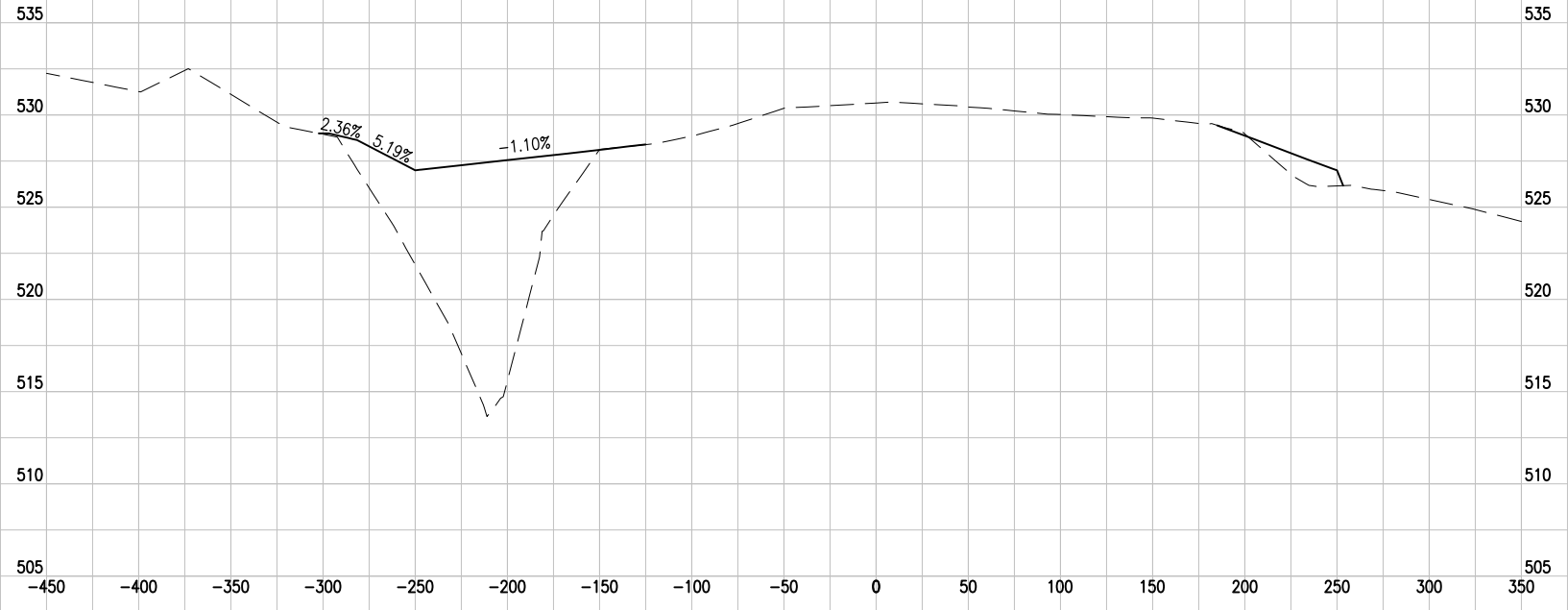
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Filename	C-301-XS.dwg
Scale	AS SHOWN
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DRAWN	JRH 01/30/14
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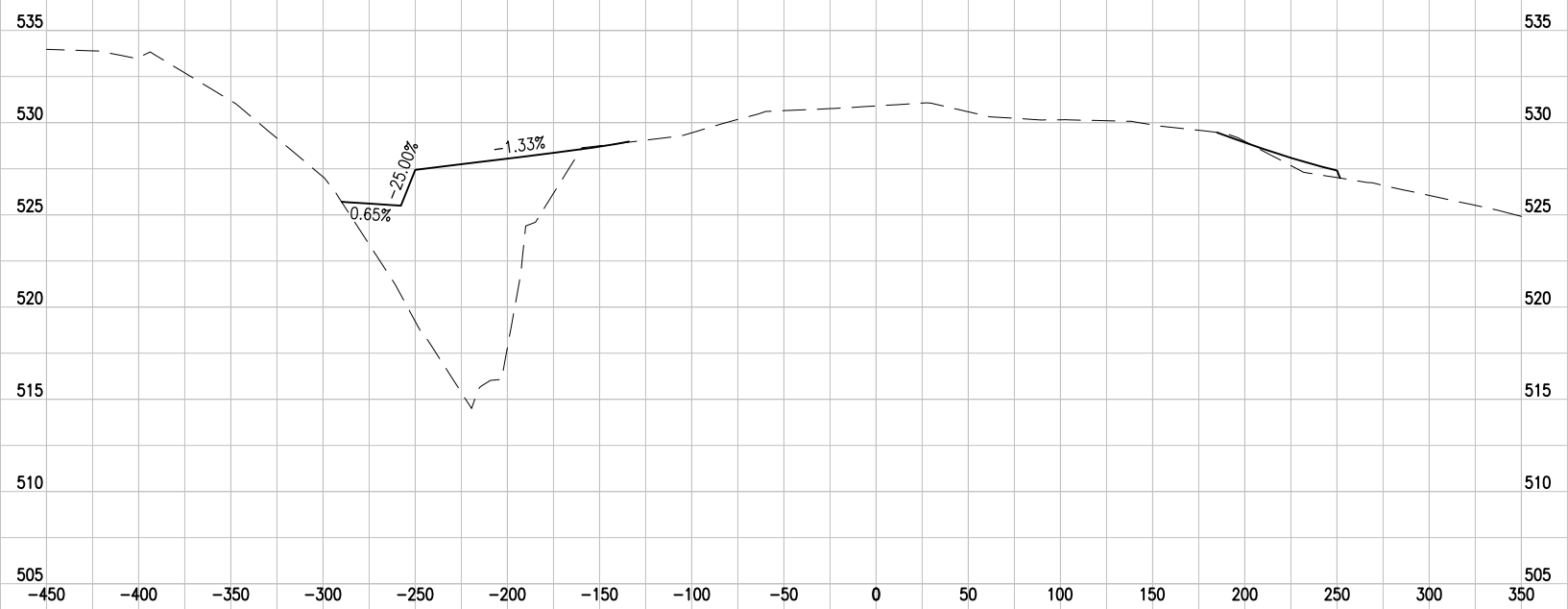
CLEARING, GRADING,  
 AND DRAINAGE TO  
 RUNWAY 35 RSA  
 RSA CROSS SECTIONS  
 STA 70+25 TO 70+75







STA.  
72+00



STA.  
71+75

DATE	REVISION

ST. LOUIS REGIONAL AIRPORT  
  
 EAST ALTON, ILLINOIS  
 IL. PROJ.: ALN-4139 BLOCK GRANT PROJ.: 3-17-0002-B48

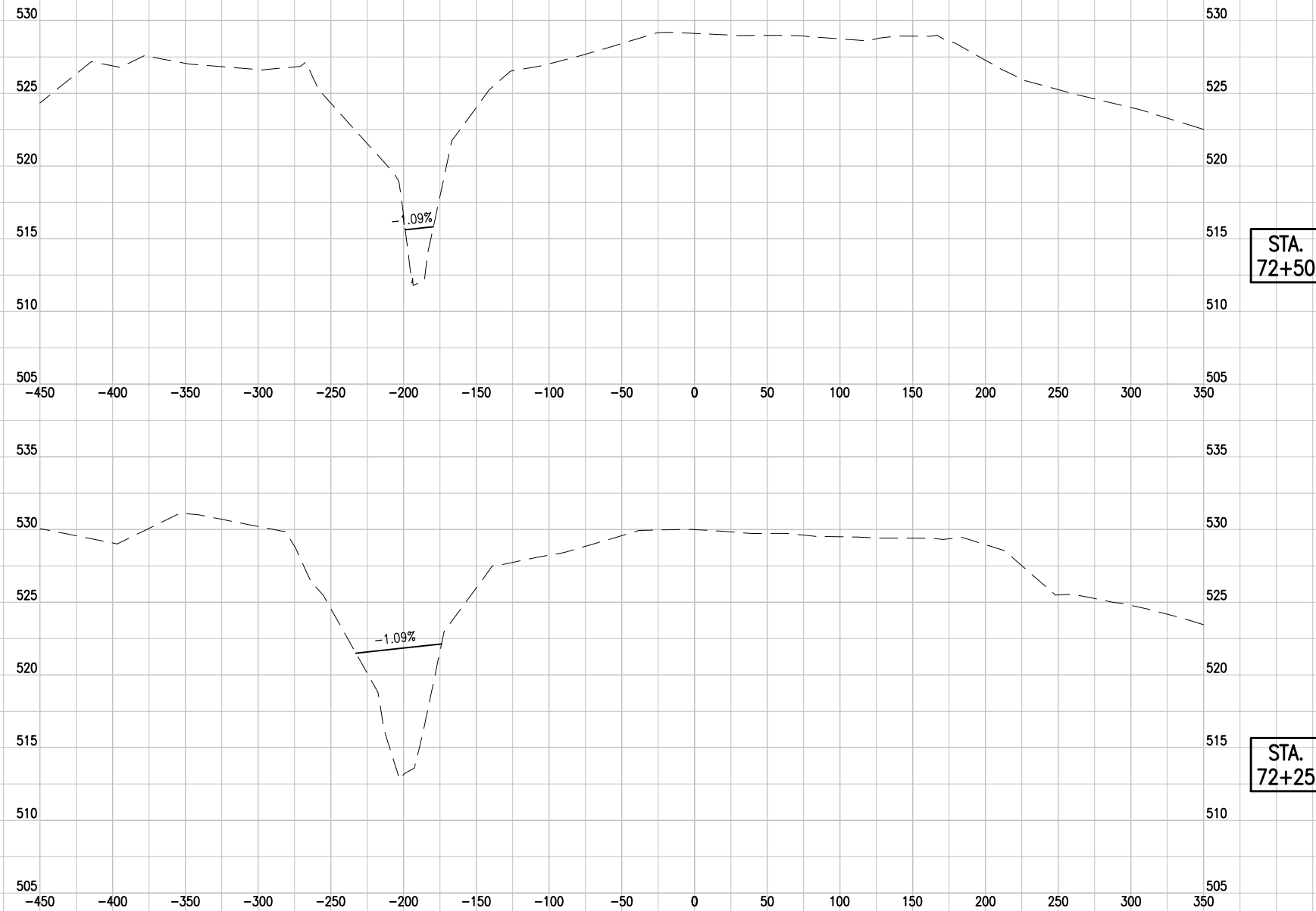
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Scale	AS SHOWN
Date	01/31/14
LAYOUT	JRH 01/30/14
DRAWN	JRH 01/30/14
REVIEWED	BSS 01/30/14

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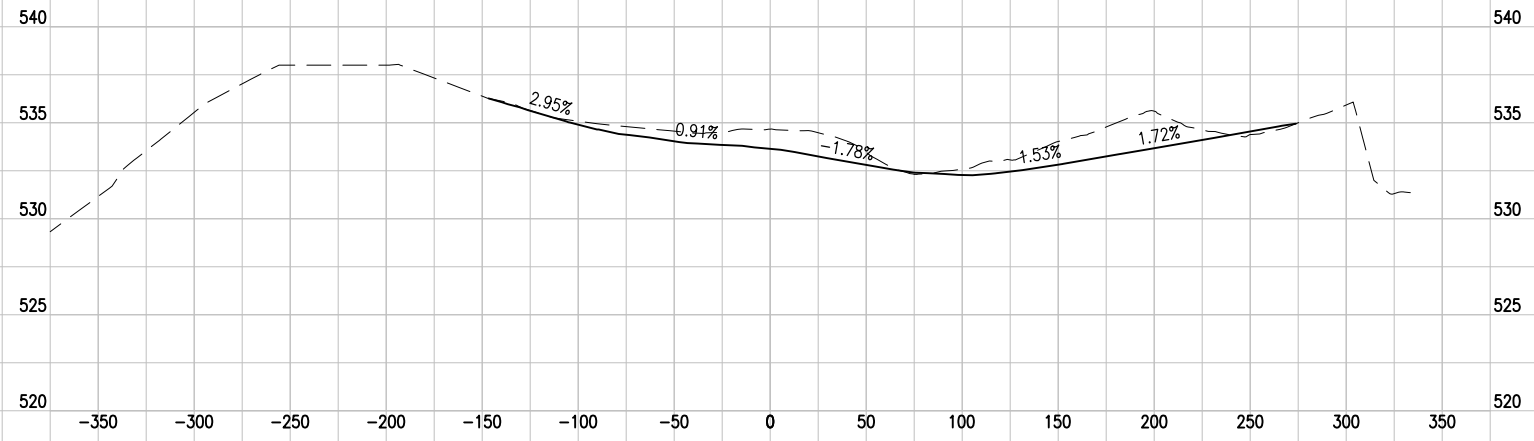
CLEARING, GRADING,  
 AND DRAINAGE TO  
 RUNWAY 35 RSA  
 RSA CROSS SECTIONS  
 STA 71+75 TO 72+00

TOTAL VOLUME							
STATION	CUT AREA (SF)	FILL AREA (SF)	CUT VOL (CY)	FILL VOL (CY)	CUM CUT VOL (CY)	CUM FILL VOL (CY)	NET VOL (CY)
69+00.00	5.50	0.41	0.00	0.00	0.00	0.00	0.00
69+25.00	12.41	0.71	8.29	0.59	8.29	0.59	7.70
69+50.00	34.83	0.21	21.87	0.49	30.16	1.08	29.08
69+75.00	85.64	0.01	55.77	0.12	85.93	1.20	84.73
70+00.00	144.92	0.00	106.74	0.01	192.67	1.21	191.47
70+25.00	207.19	0.00	163.01	0.00	355.69	1.21	354.48
70+50.00	288.81	0.00	229.63	0.00	585.31	1.21	584.11
70+75.00	432.96	0.00	334.15	0.00	919.47	1.21	918.26

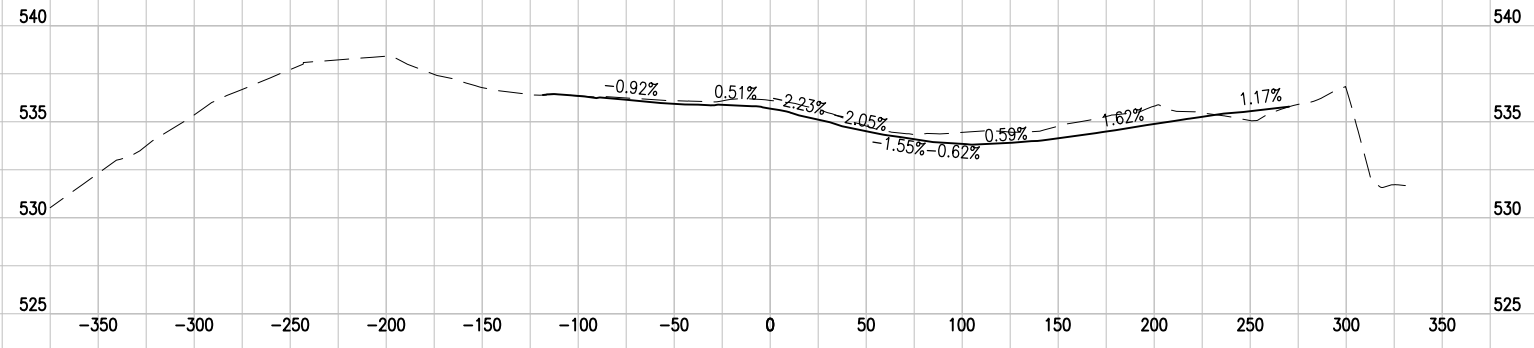
TOTAL VOLUME							
STATION	CUT AREA (SF)	FILL AREA (SF)	CUT VOL (CY)	FILL VOL (CY)	CUM CUT VOL (CY)	CUM FILL VOL (CY)	NET VOL (CY)
71+00.00	532.38	0.00	446.92	0.00	1366.39	1.21	1365.18
71+25.00	602.69	0.00	525.50	0.00	1891.89	1.21	1890.68
71+50.00	726.88	2.76	615.54	1.47	2507.43	2.68	2504.75
71+75.00	844.56	2.56	727.52	2.83	3234.95	5.51	3229.44
72+00.00	877.33	1.33	797.17	2.07	4032.12	7.58	4024.54
72+25.00	284.10	0.00	537.70	0.71	4569.82	8.29	4561.53
72+50.00	50.30	0.00	154.81	0.00	4724.63	8.29	4716.35



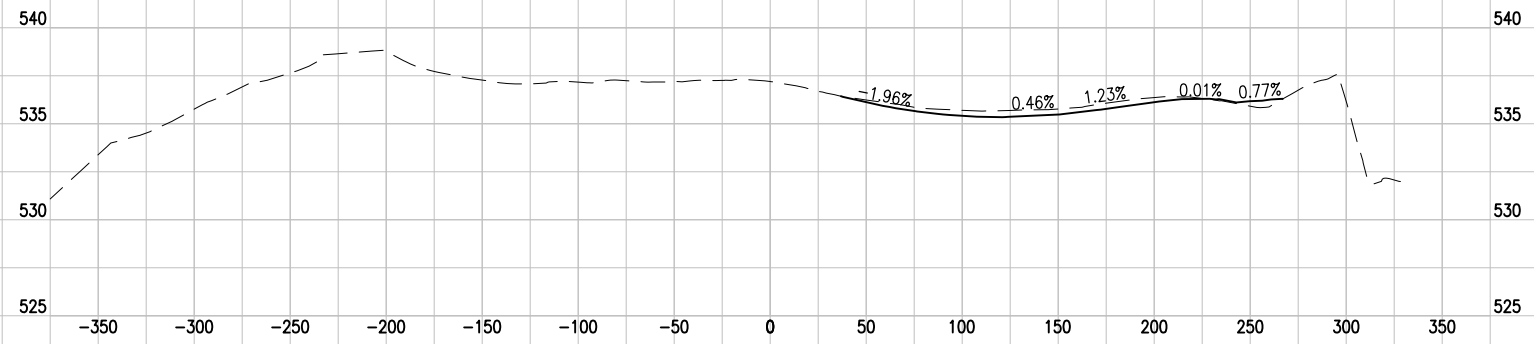
ST. LOUIS REGIONAL AIRPORT  EAST ALTON, ILLINOIS BLOCK GRANT PROJ.: 3-17-0002-B48	
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HANSON PROJECT No. 11A0098D Filename C-301-XS.dwg Scale AS SHOWN Date 01/31/14	LAYOUT JRH 01/30/14 DRAWN JRH 01/30/14 REVIEWED BSS 01/30/14
CLEARING, GRADING, AND DRAINAGE TO RUNWAY 35 RSA	RSA CROSS SECTIONS STA 72+25 TO 72+50
18 18 of 23 sheets	



STA.  
69+25



STA.  
69+00



STA.  
68+75

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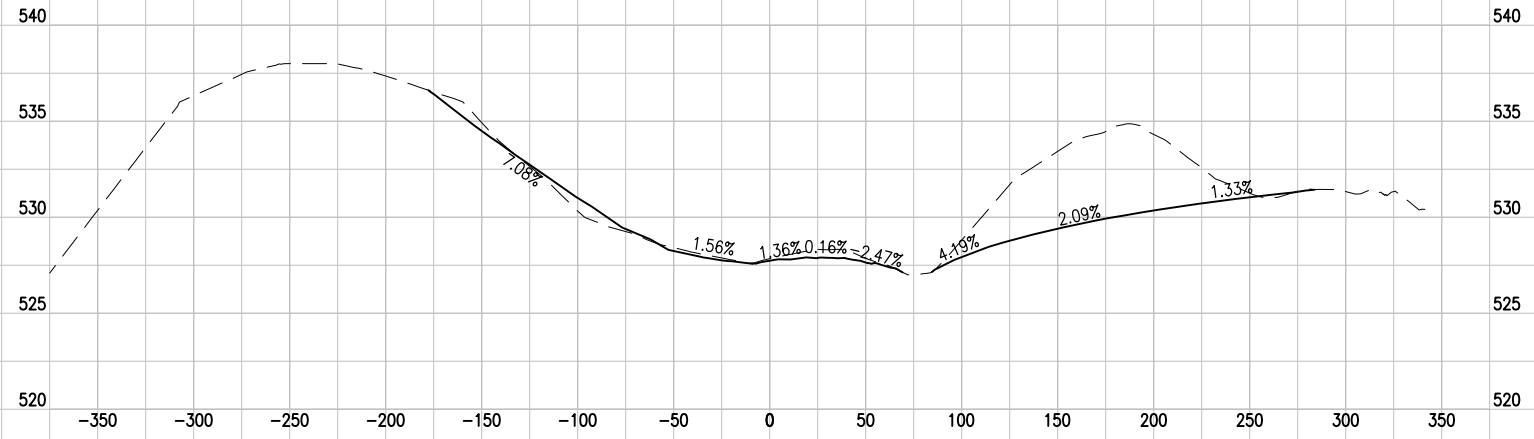
DATE	REVISION

ST. LOUIS REGIONAL AIRPORT  
  
 EAST ALTON, ILLINOIS  
 IL. PROJ.: ALN-4139 BLOCK GRANT PROJ.: 3-17-0002-B48

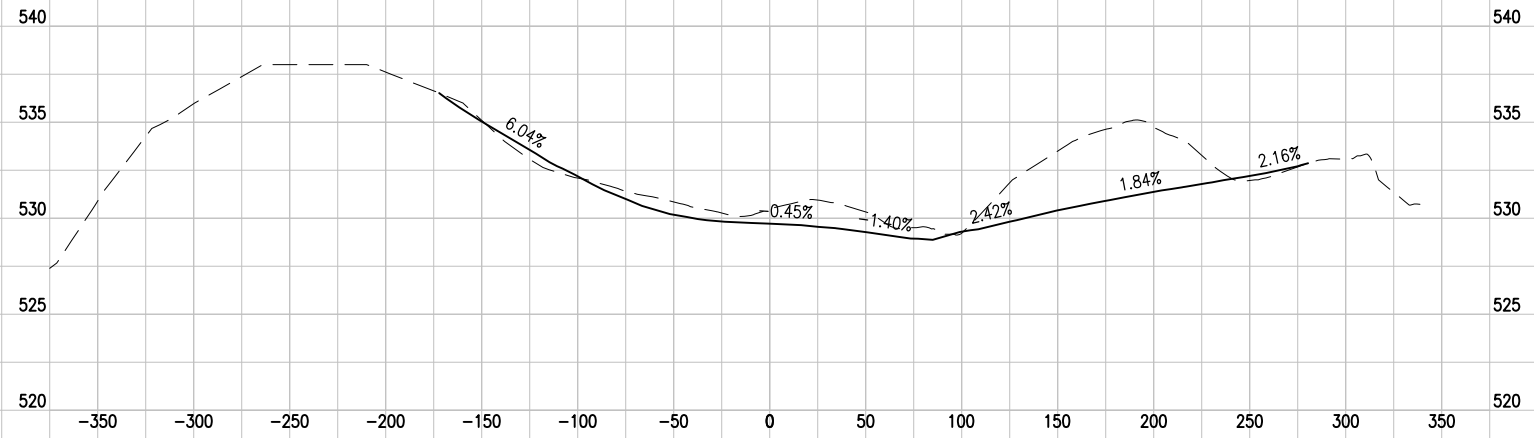
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LAYOUT	JRH 01/30/14
DRAWN	JRH 01/30/14
REVIEWED	BSS 01/30/14

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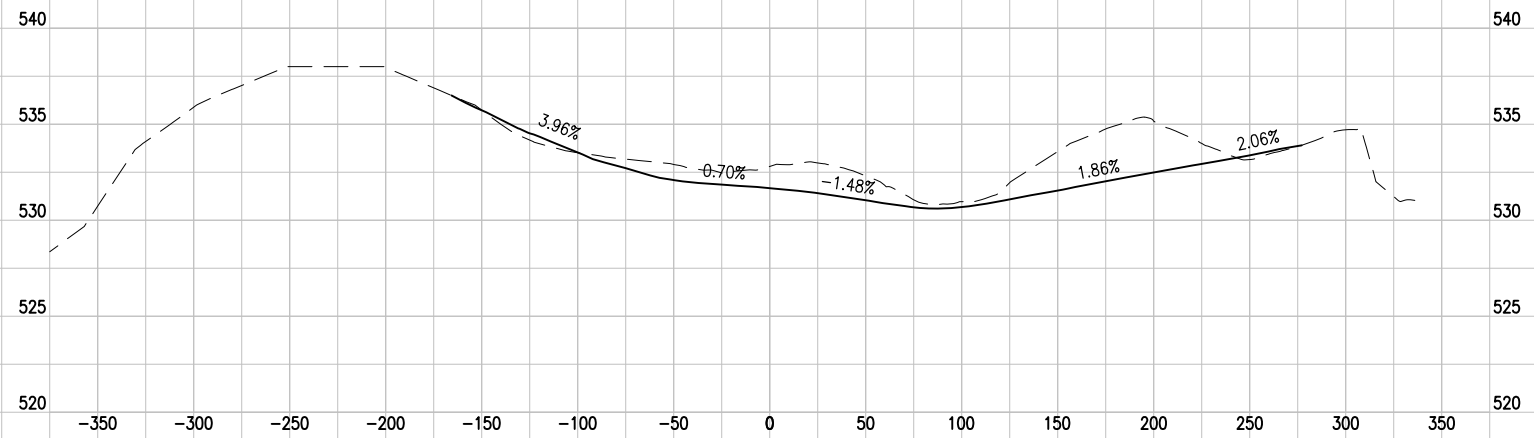
CLEARING, GRADING,  
 AND DRAINAGE TO  
 RUNWAY 35 RSA  
 BORROW CROSS SECTIONS  
 STA 68+75 TO 69+25



STA.  
70+00




STA.  
69+75




STA.  
69+50

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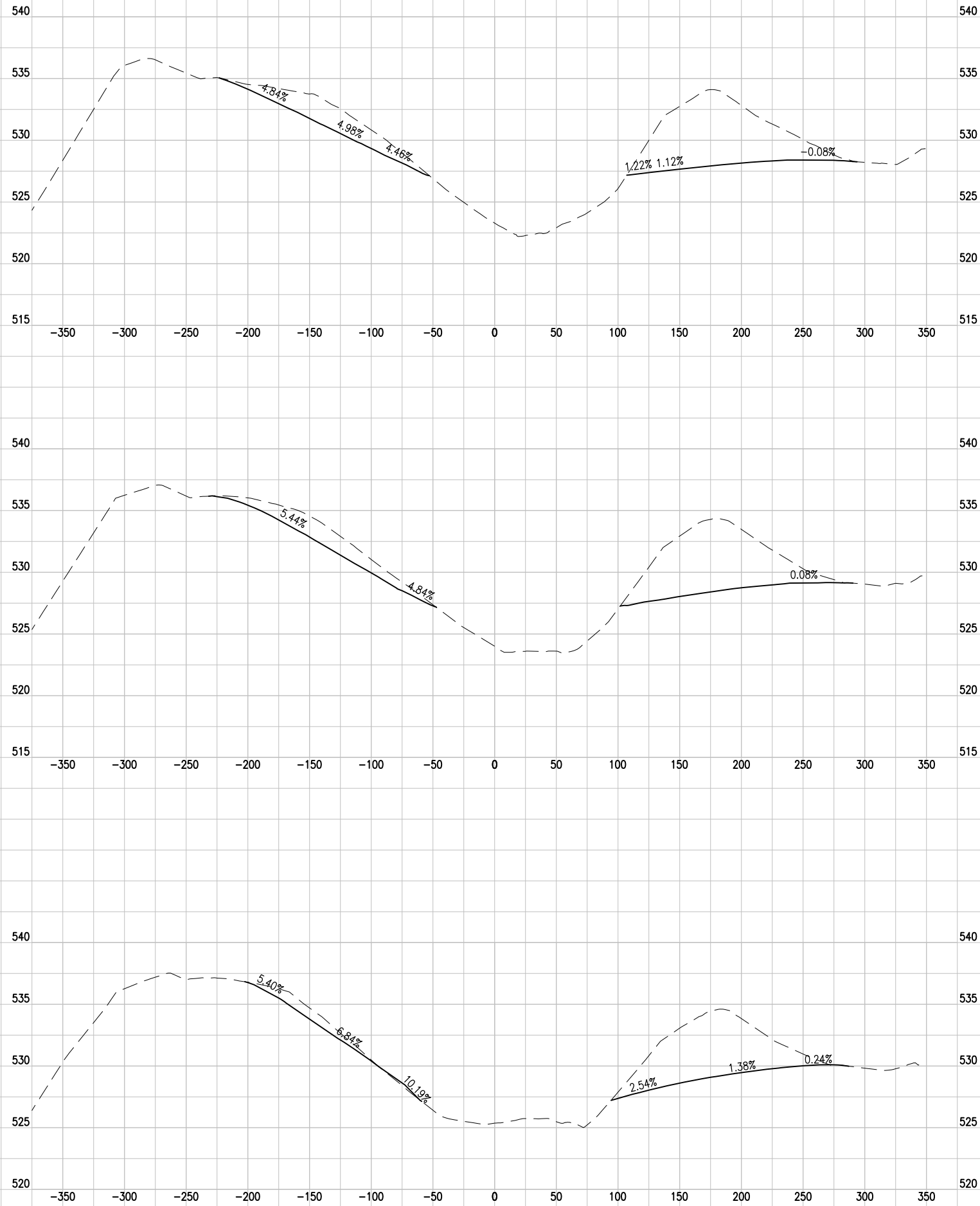
REVISION	DATE

ST. LOUIS REGIONAL AIRPORT  
  
 EAST ALTON, ILLINOIS  
 IL. PROJ.: ALN-4139 BLOCK GRANT PROJ.: 3-17-002-B48

Hanson Project No.	11A0098D
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Scale	AS SHOWN
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DRAWN	JRH 01/30/14
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CLEARING, GRADING,  
 AND DRAINAGE TO  
 RUNWAY 35 RSA  
 BORROW CROSS SECTIONS  
 STA 69+50 TO 70+00




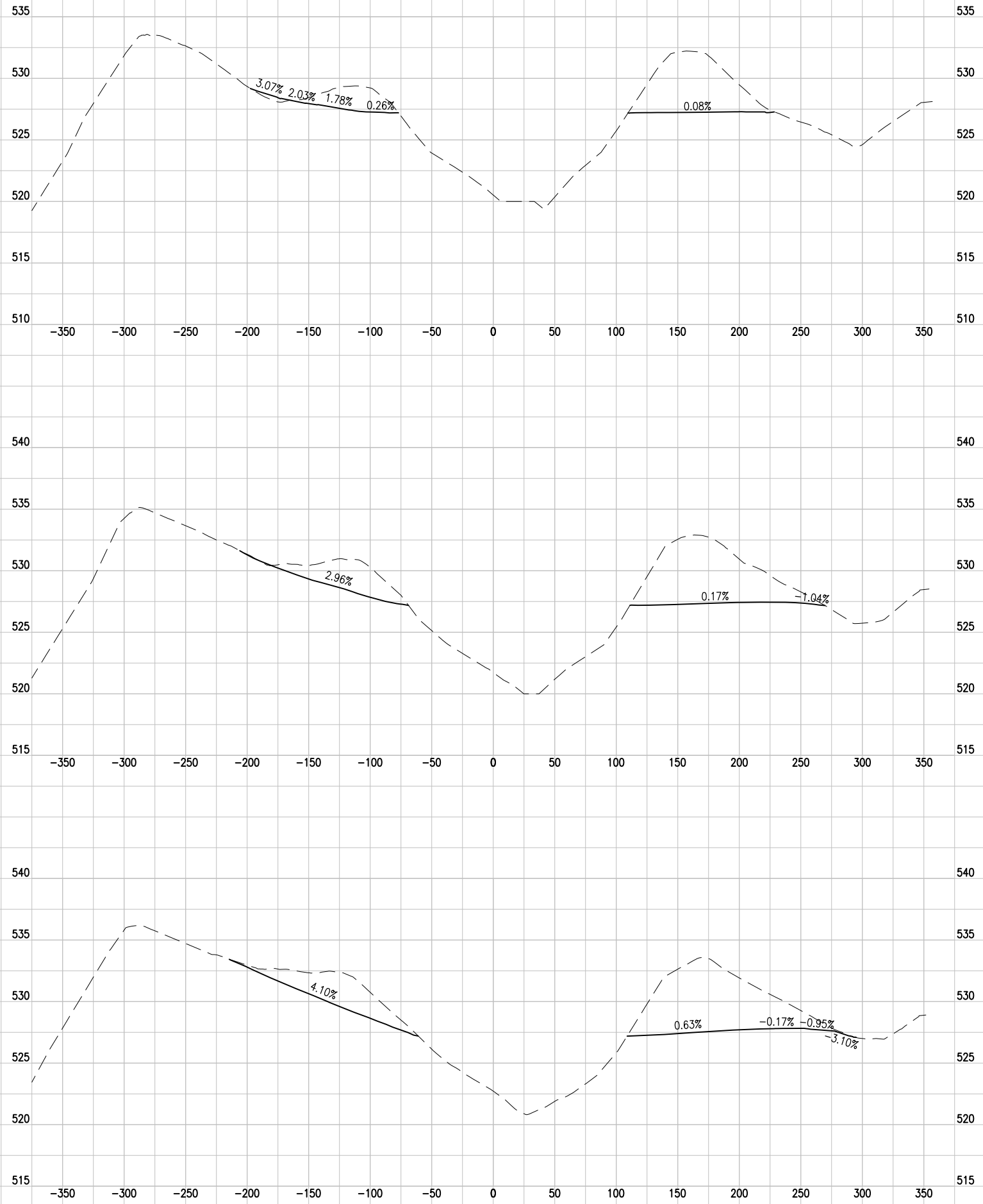
SR087

STA.  
70+75

STA.  
70+50

STA.  
70+25

<p><b>ST. LOUIS REGIONAL AIRPORT</b></p>  <p><b>EAST ALTON, ILLINOIS</b></p> <p>IL PROJ.: ALN-4139 BLOCK GRANT PROJ.: 3-17-0002-B48</p>	
<p>Hanson Project No. 11A0098D                  Filename C-301-XS.dwg                  Scale AS SHOWN                  Date 01/31/14</p>	<p>LAYOUT JRH 01/30/14                  DRAWN JRH 01/30/14                  REVIEWED BSS 01/30/14</p>
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<p><b>CLEARING, GRADING,                  AND DRAINAGE TO                  RUNWAY 35 RSA</b></p> <p><b>BORROW CROSS SECTIONS                  STA 70+25 TO 70+75</b></p>	
<p><b>21</b></p> <p>21 of 23 sheets</p>	



STA.  
71+50

STA.  
71+25

STA.  
71+00

SR087

DATE	REVISION

ST. LOUIS REGIONAL AIRPORT  
  
 EAST ALTON, ILLINOIS  
 ILL. PROJ.: ALN-4139 BLOCK GRANT PROJ.: 3-17-0002-B48

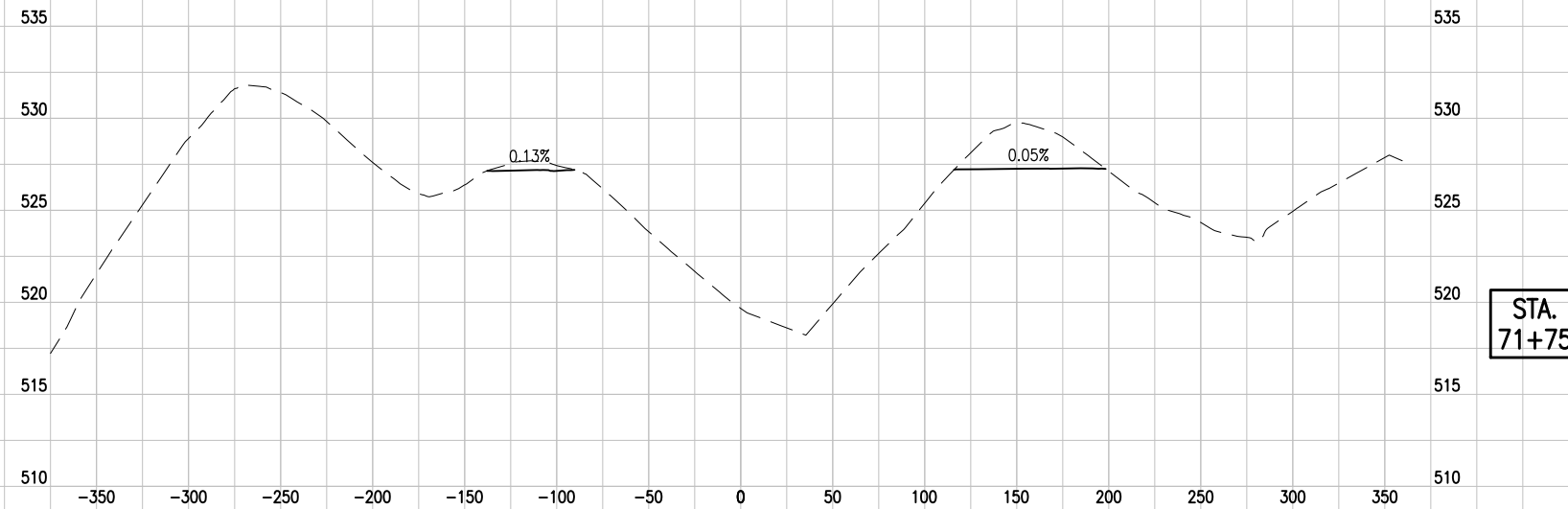
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LAYOUT	JRH 01/30/14
DRAWN	JRH 01/30/14
REVIEWED	BSS 01/30/14

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CLEARING, GRADING,  
 AND DRAINAGE TO  
 RUNWAY 35 RSA  
 BORROW CROSS SECTIONS  
 STA 71+00 TO 71+50


TOTAL VOLUME							
STATION	CUT AREA (SF)	FILL AREA (SF)	CUT VOL (CY)	FILL VOL (CY)	CUM CUT VOL (CY)	CUM FILL VOL (CY)	NET VOL (CY)
68+75.00	6.69	44.28	0.00	0.00	0.00	0.00	0.00
69+00.00	9.57	138.99	7.53	97.57	7.53	97.57	-90.05
69+25.00	5.92	266.26	7.17	215.76	14.70	313.33	-298.63
69+50.00	16.76	398.09	10.50	353.71	25.20	667.04	-641.84
69+75.00	22.11	479.15	17.99	467.05	43.19	1134.09	-1090.90
70+00.00	25.34	501.72	21.97	522.22	65.16	1656.32	-1591.16
70+25.00	4.20	583.66	13.67	577.86	78.84	2234.18	-2155.34

TOTAL VOLUME							
STATION	CUT AREA (SF)	FILL AREA (SF)	CUT VOL (CY)	FILL VOL (CY)	CUM CUT VOL (CY)	CUM FILL VOL (CY)	NET VOL (CY)
70+50.00	0.01	744.86	1.95	707.31	80.78	2941.49	-2860.71
70+75.00	0.00	791.64	0.00	818.04	80.79	3759.54	-3678.75
71+00.00	0.03	771.27	0.02	832.10	80.80	4591.64	-4510.84
71+25.00	0.43	657.83	0.21	760.87	81.01	5352.50	-5271.49
71+50.00	7.28	455.64	3.57	592.82	84.58	5945.33	-5860.75
71+75.00	0.00	141.42	3.37	317.88	87.94	6263.21	-6175.26



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REVISION	DATE

ST. LOUIS REGIONAL AIRPORT  
  
 EAST ALTON, ILLINOIS  
 BLOCK GRANT PROJ.: 3-17-0002-B48  
 IL PROJ.: ALN-4139

Hanson Project No.	11A0098D
Filename	C-301-XS.dwg
Scale	AS SHOWN
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CLEARING, GRADING,  
 AND DRAINAGE TO  
 RUNWAY 35 RSA  
 BORROW CROSS SECTIONS  
 STA 71+75