

CONSTRUCTION PLANS

FOR

ROCHELLE MUNICIPAL AIRPORT MAJOR THOMAS F. KORITZ FIELD

ROCHELLE, OGLE COUNTY, ILLINOIS

EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT

SCOPE OF WORK:

BASE BID: THIS PROJECT CONSISTS OF PAVING, MARKING, AND LIGHTING A 775' EXTENSION TO RUNWAY END 7. ASSOCIATED WORK WILL INCLUDE UNCLASSIFIED EXCAVATION, DRAINAGE, EROSION PROTECTION, SEEDING AND MULCHING. ALSO INCLUDED IS THE REPLACEMENT OF THE MEDIUM INTENSITY AIRFIELD LIGHTING SYSTEM, RELOCATING THE RUNWAY END 7 PAPI, REMOVAL AND REPLACEMENT OF THE RUNWAY 7 REILS, AND THE ASSOCIATED CABLING AND DUCT WORK.

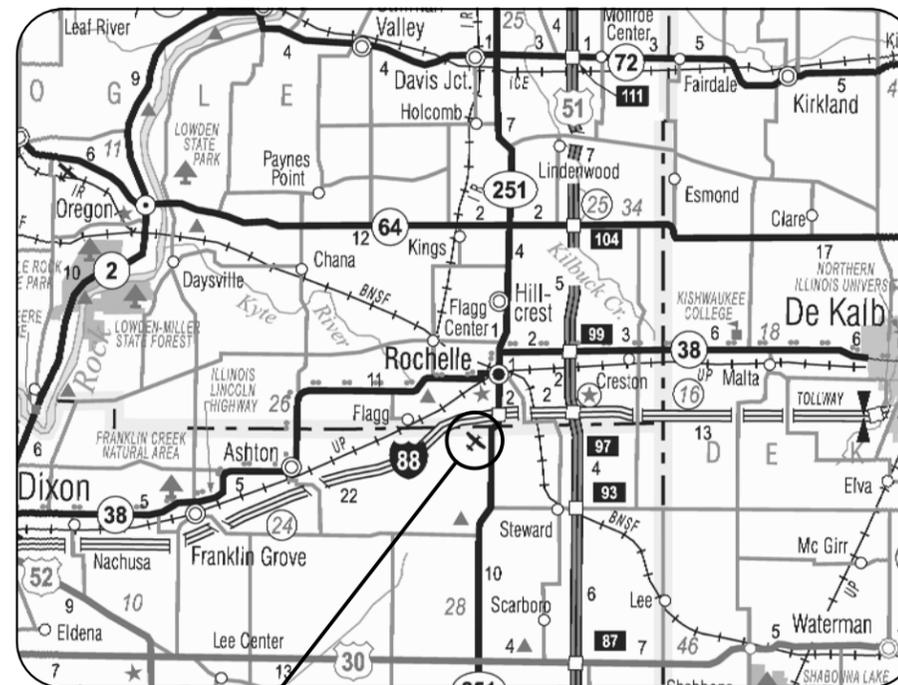
ADDITIVE ALTERNATE NO. 1: THIS WORK WILL CONSIST OF THE UPGRADE OF THE MEDIUM INTENSITY RUNWAY LIGHTS TO TYPE L-861(L) WITH LED (LIGHT EMITTING DIODE) ILLUMINATION, UPGRADE OF THE MEDIUM INTENSITY THRESHOLD LIGHTS TO TYPE L-861E(L) WITH LED ILLUMINATION, UPGRADE OF THE MEDIUM INTENSITY TAXIWAY LIGHTS TO TYPE L-861T(L) WITH LED ILLUMINATION AND UPGRADE OF THE TAXI GUIDANCE SIGNS TO TYPE L-858(L) WITH LED ILLUMINATION.

ILL. PROJ.: RPJ-4243
SBG PROJ.: 3-17-0087-B15

LATITUDE: 41° 53' 35"
LONGITUDE: 89° 04' 42"
ELEVATION: 781.00' M.S.L.
DATE: JAN. 18, 2013



LOCATION OF COUNTY



ROCHELLE MUNICIPAL AIRPORT LOCATION



COVERING
ELECTRICAL DESIGN

PLANS PREPARED BY:



ELECTRICAL ENGINEER

Submitted by: *Kevin N. Lightfoot* ENG'R
Date Submitted: 1/15/2013
Lic. Exp. Date: November 30, 2013

PLANS PREPARED BY:



CIVIL ENGINEER

Submitted by: *Kyle B. Schweizer* ENG'R
Date Submitted: 1/18/2013
Lic. Exp. Date: November 30, 2013



ROCHELLE MUNICIPAL AIRPORT

Approved: *Mark Deltrutt* AIRPORT MANAGER
Date: 01/18/2013

REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

BLOCK GRANT: 3-17-0087-B15
IL PROJ.: RPJ-4243

Hanson Proj. No.	Filename	Scale	Date	LAYOUT	12/31/12
09A0141	C-001-CVR.dwg	NONE	01/18/2013	KBS	MLH



EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

COVER SHEET

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SUMMARY OF QUANTITIES - BASE BID

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITIES	RECORD QUANTITIES
AR108158	1/C #8 5 KV UG CABLE IN UD	LF	13,828	
AR108654	3/C #4 600V UG CABLE IN UD	LF	800	
AR110013	3" DIRECTIONAL BORE	LF	60	
AR110502	2-WAY CONCRETE ENCASED DUCT	LF	55	
AR110610	ELECTRICAL HANDHOLE	EACH	2	
AR125410	MITL - STAKE MOUNTED	EACH	47	
AR125415	MITL - BASE MOUNTED	EACH	2	
AR125441	TAXI GUIDANCE SIGN, 1 CHARACTER	EACH	1	
AR125444	TAXI GUIDANCE SIGN, 4 CHARACTER	EACH	1	
AR125445	TAXI GUIDANCE SIGN, 5 CHARACTER	EACH	1	
AR125505	MIRL, STAKE MOUNTED	EACH	42	
AR125510	MIRL, BASE MOUNTED	EACH	10	
AR125540	MI THRESHOLD LIGHT STAKE MTD	EACH	12	
AR125545	MI THRESHOLD LIGHT BASE MTD	EACH	4	
AR125565	SPLICE CAN	EACH	1	
AR125610	REILS	PAIR	1	
AR125901	REMOVE STAKE MOUNTED LIGHT	EACH	63	
AR125902	REMOVE BASE MOUNTED LIGHT	EACH	14	
AR125904	REMOVE TAXI GUIDANCE SIGN	EACH	1	
AR125907	REMOVE REILS	PAIR	1	
AR125968	RELOCATE PAPI	EACH	1	
AR150510	ENGINEER'S FIELD OFFICE	LS	1	
AR150530	TRAFFIC MAINTENANCE	LS	1	
AR150540	HAUL ROUTE	LS	1	
AR152410	UNCLASSIFIED EXCAVATION	CY	35,000	
AR152530	FIELD TILE ADJUSTMENT	EACH	12	
AR155540	BY-PRODUCT LIME	TON	348	
AR155616	SOIL PROCESSING - 16"	SY	9,690	
AR156510	SILT FENCE	LF	2,650	
AR156511	DITCH CHECK	EACH	6	
AR156520	INLET PROTECTION	EACH	8	
AR156530	TEMPORARY SEEDING	ACRE	22	
AR156531	EROSION CONTROL BLANKET	SY	10,564	
AR156540	RIPRAP	SY	75	
AR209510	CRUSHED AGGREGATE BASE COURSE	TON	6,783	
AR401613	BIT. SURF. CSE.-METHOD I, SUPERPAVE	TON	800	
AR403613	BIT. BASE CSE.-METHOD I, SUPERPAVE	TON	1,400	
AR602510	BITUMINOUS PRIME COAT	GAL	3,191	
AR603510	BITUMINOUS TACK COAT	GAL	905	
AR620520	PAVEMENT MARKING - WATERBORNE	SF	15,116	
AR620525	PAVEMENT MARKING - BLACK BORDER	SF	3,406	
AR620900	PAVEMENT MARKING REMOVAL	SF	12,066	
AR620912	TEMPORARY MARK & LIGHT	LS	1	
AR701018	18" PVC STORM SEWER	LFT	1,300	
AR701030	30" PVC STORM SEWER	LFT	1,172	
AR701512	12" RCP, CLASS IV	LF	132	
AR701518	18" RCP, CLASS IV	LF	317	
AR701530	30" RCP, CLASS IV	LF	23	
AR701560	60" RCP, CLASS IV	LF	584	
AR701900	REMOVE PIPE	LF	928	
AR705506	6" PERFORATED UNDERDRAIN	LF	2,600	
AR705546	6" NON-PERFORATED UNDERDRAIN	LF	730	
AR705630	UNDERDRAIN INSPECTION HOLE	EA	2	
AR705635	UNDERDRAIN COLLECTION STRUCTURE	EA	7	
AR705640	UNDERDRAIN CLEANOUT	EA	6	
AR751411	INLET - TYPE A	EA	2	
AR751530	MANHOLE	EA	1	
AR751540	MANHOLE - 4'	EA	4	
AR751568	MANHOLE - 8'	EA	1	
AR751570	MANHOLE - SPECIAL	EA	2	
AR751900	REMOVE INLET	EA	3	
AR751903	REMOVE MANHOLE	EA	1	
AR752418	PRECAST REINFORCED CONC. FES 18"	EA	3	
AR752430	PRECAST REINFORCED CONC. FES 30"	EA	1	
AR752460	PRECAST REINFORCED CONC. FES 60"	EA	2	
AR752518	GRATING FOR CONC. FES 18"	EA	3	
AR752530	GRATING FOR CONC. FES 30"	EA	1	
AR752560	GRATING FOR CONC. FES 60"	EA	2	
AR754610	PAVED DITCH	LF	263	
AR901510	SEEDING	ACRE	22	
AR908510	MULCHING	ACRE	22	

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SUMMARY OF QUANTITIES - ADDITIVE ALTERNATE NO. 1

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITIES	RECORD QUANTITIES
AS800410	1 CHARACTER SIGN LED UPGRADE	EACH	1	
AS800412	4 CHARACTER SIGN LED UPGRADE	EACH	1	
AS800413	MIRL LED UPGRADE	EACH	52	
AS800414	MI THRESHOLD LIGHT LED UPGRADE	EACH	16	
AS800592	MITL LED UPGRADE	EACH	49	
AS800593	5 CHARACTER SIGN LED UPGRADE	EACH	1	

NOTES:

EARTHWORK SUMMARY TABLE IS SHOWN ON SHEET 48.

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.

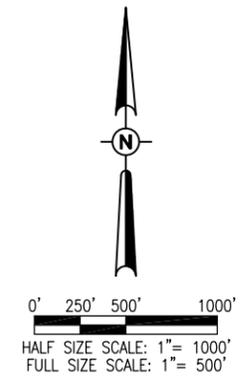
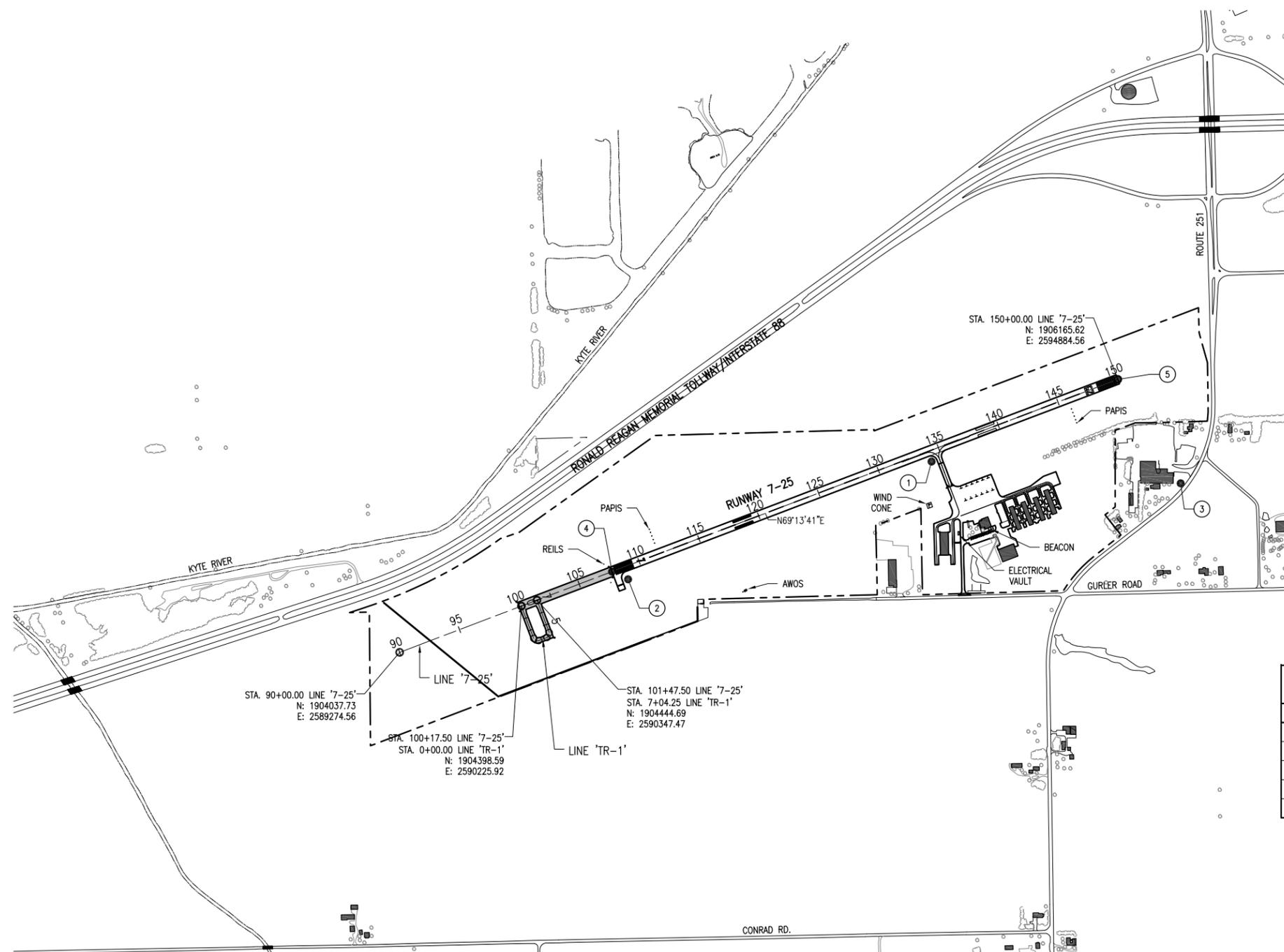
CERTIFIED PAYROLLS

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

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.

REVISION		DATE	
ROCHELLE MUNICIPAL AIRPORT MAJOR THOMAS F. KORITZ FIELD ROCHELLE, OGLE COUNTY, ILLINOIS BLOCK GRANT: 3-17-0087-B15 IL PROJ.: RPJ-4243			
Hanson Proj. No.	09A0141	LAYOUT	12/14/12
Filename	C-002-FLP.dwg	DRAWN	MLH
Scale	NOT TO SCALE	REVIEWED	KBS
Date	01/18/2013		1/11/13
 © Copyright Hanson Professional Services Inc. 2013 Hanson Professional Services Inc. 1525 South Main Street Springfield, Illinois 62703-2886			
EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT		SUMMARY OF QUANTITIES AND INDEX TO SHEETS	
2 2 of 77 sheets			



LEGEND

- EXISTING IMPROVEMENTS
- PROPOSED IMPROVEMENTS
- EXISTING BUILDINGS
- AIRPORT PROPERTY LINE

NO.	DESCRIPTION	NORTHING	EASTING	ELEV.
1	NGS STAINLESS STEEL ROD IN SLEEVE—"ROCHPORT"	1,905,524.80	2,593,429.93	774.18
2	NGS STAINLESS STEEL ROD IN SLEEVE—"ROCHPORT AZ MK"	1,904,607.07	2,591,059.02	769.60
3	NGS V223-DISK IN CONCRETE WEST OF RT. 251	1,905,355	2,595,375	782.95
4	RWY END 7-MAG NAIL IN PAVEMENT CL	1,904,667.07	2,590,933.76	- - -
5	RWY END 20-MAG NAIL IN PAVEMENT CL	1,906,165.62	2,594,884.56	- - -

SURVEY NOTES

- ALL COORDINATE VALUES SHOWN IN TABLE ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD-83 (2007). ALL ELEVATIONS ARE REFERENCED TO NAVD 88.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT AND ANY EXTENSION OF THE CONTROL NETWORK NEEDED TO PROPERLY COMPLETE THE WORK.
- THE CONTRACTOR SHALL VERIFY ELEVATION AND DIMENSIONS SHOWN IN THE CONTRACT DOCUMENTS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. WHERE NEW WORK IS TO BE FITTED TO EXISTING, THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO THE START OF THE NEW WORK. ANY DISCREPANCIES FOUND SHALL BE REPORTED TO THE RESIDENT ENGINEER OR THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE NEW WORK.

Line '7-25'														
No.	Length	Start Station	End Station	Direction	Radius	Delta Angle	Chord Direction	Chord Length	Start Point		End Point		PI Point	
									Northing	Easting	Northing	Easting	Northing	Easting
1	6000.00	90+00.00	150+00.00	N69° 13' 41.28"E					1904037.73	2589274.56	1906165.62	2594884.56		

Line 'TR-1'														
No.	Length	Start Station	End Station	Direction	Radius	Delta Angle	Chord Direction	Chord Length	Start Point		End Point		PI Point	
									Northing	Easting	Northing	Easting	Northing	Easting
1	270.00	0+00.00	2+70.00	S20° 46' 18.79"E					1904398.59	2590225.92	1904146.14	2590321.68		
2	47.12	2+70.00	3+17.12		30.00	90°	S65° 46' 18.79"E	42.43	1904146.14	2590321.68	1904128.73	2590360.37	1904118.09	2590332.32
3	70.00	3+17.12	3+87.12	N69° 13' 41.21"E					1904128.73	2590360.37	1904153.55	2590425.82		
4	47.12	3+87.12	4+34.25		30.00	90°	N24° 13' 41.21"E	42.43	1904153.55	2590425.82	1904192.24	2590443.23	1904164.19	2590453.87
5	270.00	4+34.25	7+04.25	N20° 46' 18.79"W					1904192.24	2590443.23	1904444.69	2590347.47		

REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

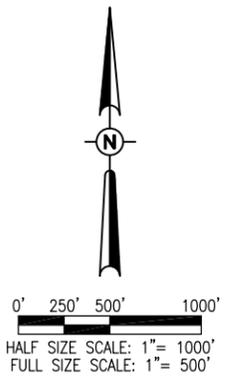
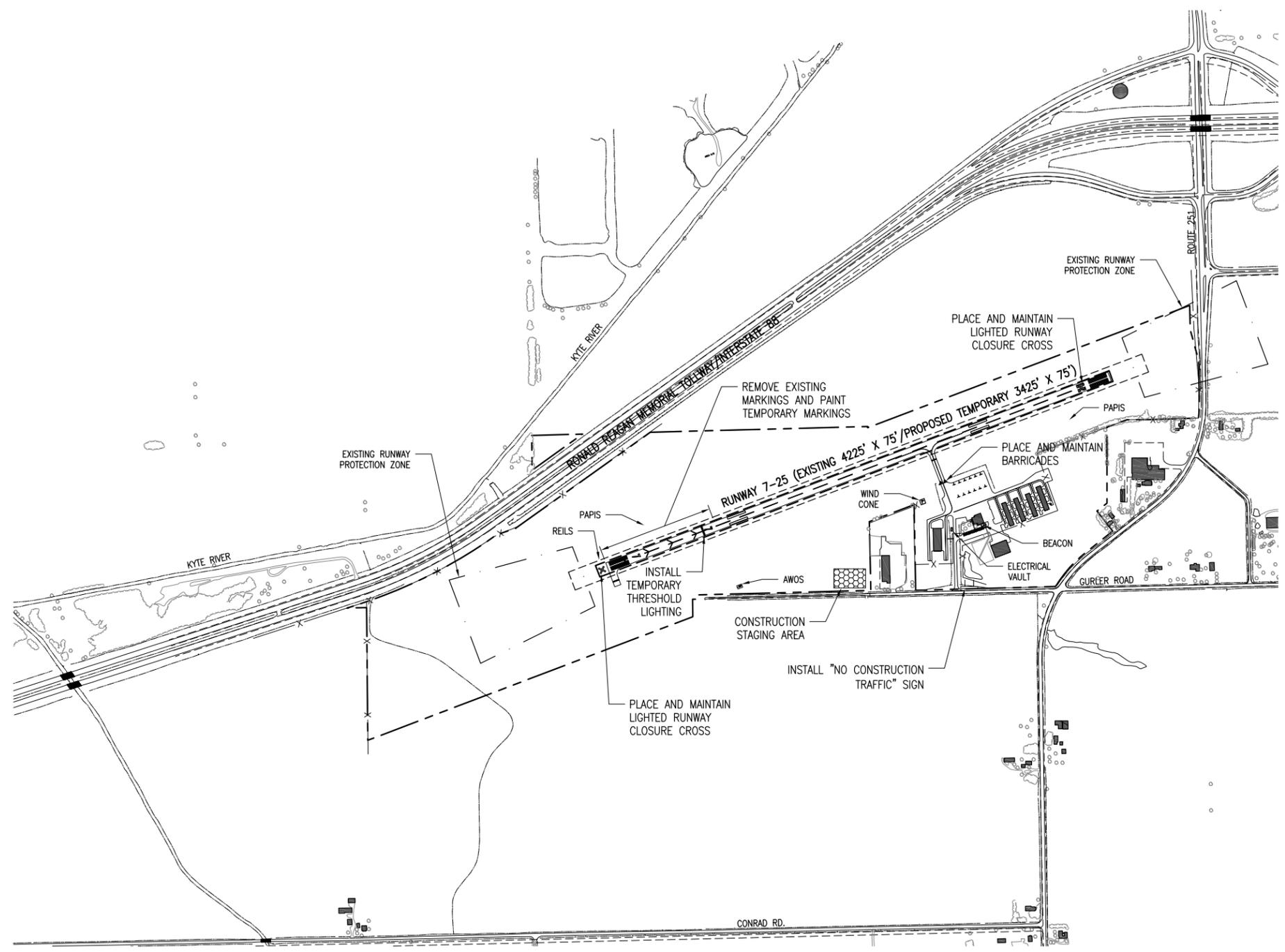
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			REVIEWED	KBS	1/11/13

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EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT

SURVEY BASE SHEET

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LEGEND

	EXISTING IMPROVEMENTS
	PROPOSED IMPROVEMENTS
	PHASE 1 WORK AREA
	EXISTING BUILDINGS
	PROPOSED CONSTRUCTION STAGING AREA
	PROPOSED CONSTRUCTION HAUL ROUTE
	RUNWAY SAFETY AREA (150' WIDE)
	RUNWAY PROTECTION ZONE
	AIRPORT PROPERTY LINE
	PROPOSED RUNWAY/TAXIWAY CLOSURE CROSS
	PROPOSED BARRICADES
	PROPOSED TEMPORARY CONSTRUCTION SIGN

PHASE 1 NOTES

1. THE WORK ITEMS TO BE COMPLETED IN PHASE 1 INCLUDE REMOVAL OF PAVEMENT MARKING, INSTALLATION OF TEMPORARY PAVEMENT MARKING, INSTALLATION OF TEMPORARY THRESHOLD LIGHTING IN ORDER TO ESTABLISH A TEMPORARY THRESHOLD. SEE THE TEMPORARY THRESHOLD DETAILS SHEET FOR MORE INFORMATION.
2. THE CONTRACTOR SHALL HAVE A MAXIMUM OF 2 CALENDAR DAYS TO COMPLETE THE WORK IN THIS PHASE. **WORK SHALL BE CONCLUDED BY 11:00 AM ON THE SECOND DAY.**
3. CLOSURE CROSSES AND BARRICADES SHALL BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION.
4. RUNWAY 7-25 SHALL BE NOTAMED "CLOSED". THE PAPIS AND REILS SHALL BE NOTAMED "SHUTDOWN". WHENEVER THE RUNWAY IS CLOSED, ALL ASSOCIATED LIGHTING SHALL BE TURNED OFF OR COMPLETELY COVERED, INCLUDING THE RUNWAY EDGE LIGHTS, PAPIS AND REILS. CONTRACTOR SHALL COORDINATE WITH THE AIRPORT AT LEAST 48 HOURS BEFORE WORKING WITHIN THE RUNWAY SAFETY AREAS SO THAT NOTAMS MAY BE COORDINATED.
5. AT ALL TIMES, THE CONTRACTOR'S OPERATIONS SHALL BE SUCH AS TO MINIMIZE CLOSURES.

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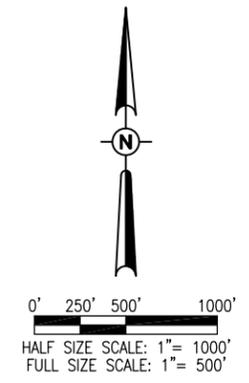
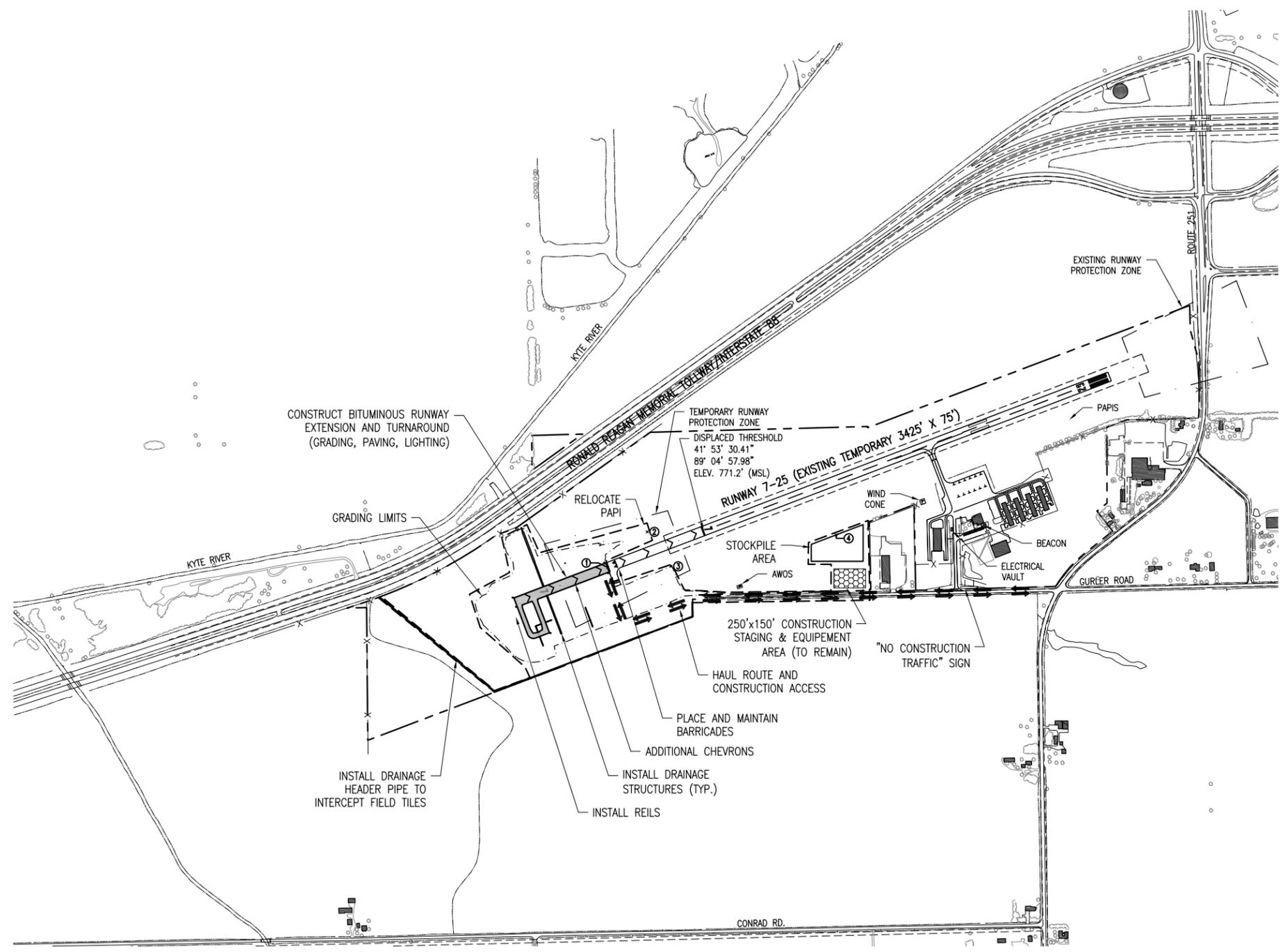
REVISION
DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	12/14/12
Filename C-005-SFY.dwg	MLH
Scale AS SHOWN	MLH
Date 01/18/2013	REVIEWED
	KBS
	1/11/13

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EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT
 CONSTRUCTION SAFETY AND
 PHASING PLAN - PHASE 1

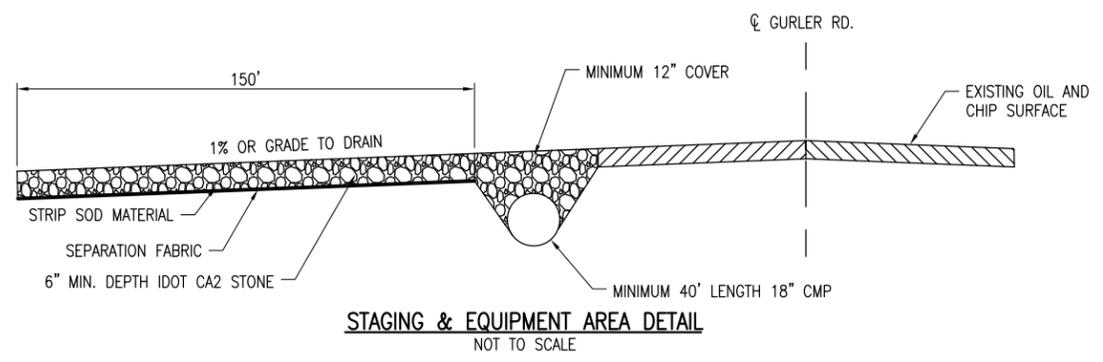


- LEGEND**
- EXISTING IMPROVEMENTS
 - PROPOSED IMPROVEMENTS
 - PHASE 2 WORK AREA
 - EXISTING BUILDINGS
 - PROPOSED CONSTRUCTION STAGING AREA
 - PROPOSED CONSTRUCTION HAUL ROUTE
 - AIRPORT PROPERTY LINE
 - RUNWAY SAFETY AREA (150' WIDE)
 - RUNWAY PROTECTION ZONE
 - PROPOSED RUNWAY/TAXIWAY CLOSURE CROSS
 - PROPOSED BARRICADES
 - PROPOSED TEMPORARY CONSTRUCTION SIGN

PHASE 2 NOTES

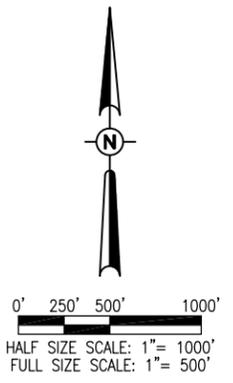
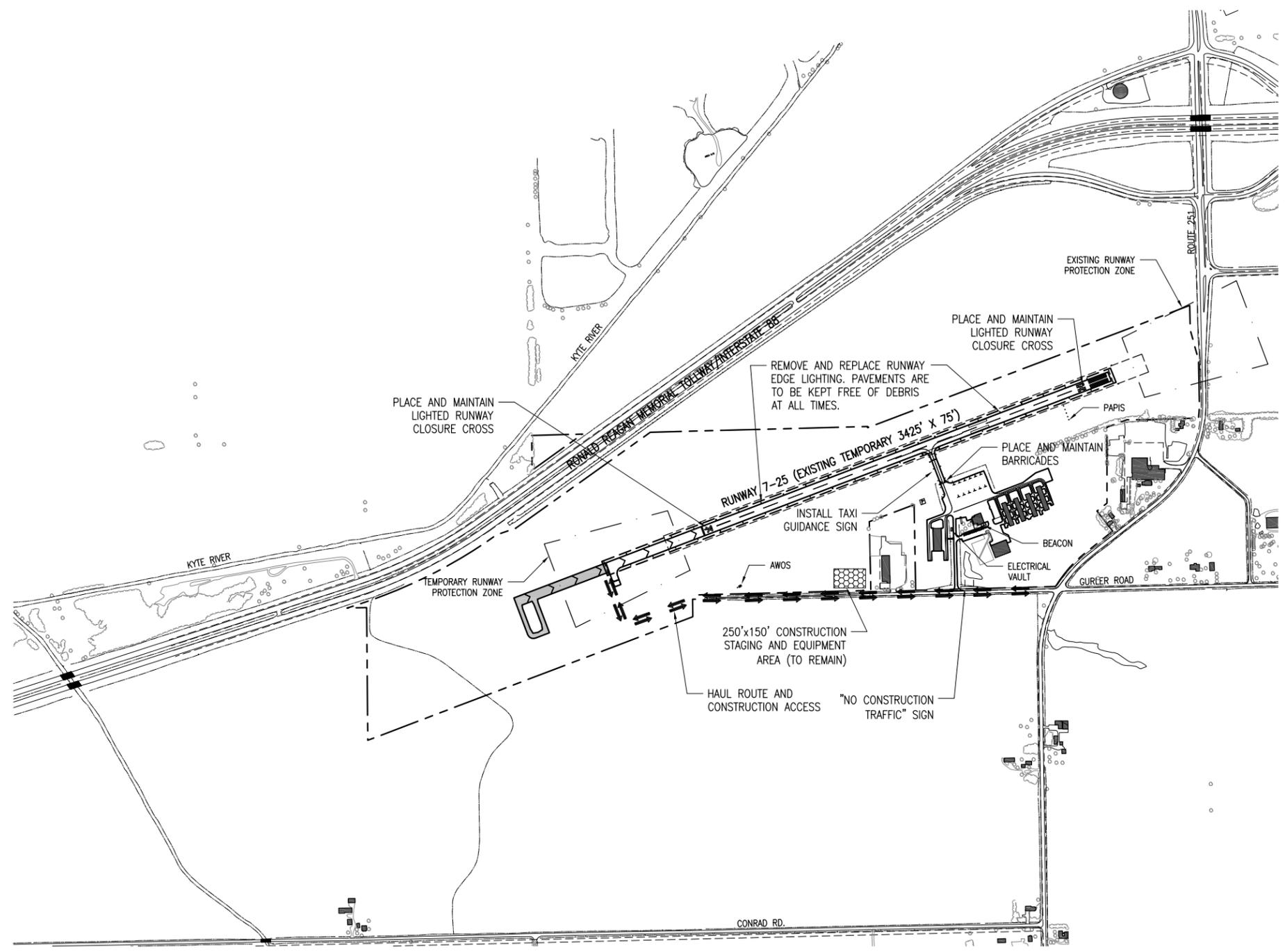
1. THE WORK ITEMS TO BE COMPLETED IN PHASE 2 INCLUDE CONSTRUCTION OF THE HAUL ROUTE AND STAGING AREA, CONSTRUCTION OF THE BITUMINOUS RUNWAY 7-25 EXTENSION, INCLUDING GRADING, INSTALLATION OF DRAINAGE STRUCTURES, PAVING, INSTALLATION OF RUNWAY EDGE LIGHTING, REELS, RELOCATION OF PAPI, AND EROSION CONTROL ITEMS.
2. THE CONTRACTOR SHALL HAVE A MAXIMUM OF 96 CALENDAR DAYS TO COMPLETE THE WORK IN THIS PHASE.
3. CLOSURE CROSSES AND BARRICADES SHALL BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION.
4. RUNWAY 7-25 SHALL BE NOTAMED AS APPROPRIATE TO REFLECT THE TEMPORARY THRESHOLD, USABLE RUNWAY LENGTH, AND STATUS OF THE RUNWAY 7 PAPI AND REELS AS "SHUTDOWN". CONTRACTOR SHALL COORDINATE WITH THE AIRPORT AT LEAST 48 HOURS BEFORE BEGINNING THIS PHASE SO THAT NOTAMS MAY BE COORDINATED.
5. AT ALL TIMES, THE CONTRACTOR'S OPERATIONS SHALL BE SUCH AS TO MINIMIZE CLOSURES.
6. THE CONTRACTOR MAY WORK IN PHASES 2 AND 3 SIMULTANEOUSLY. HOWEVER, CONTRACT TIME PROVISIONS SHALL STILL BE ENFORCED FOR EACH AREA.
7. THE CONTRACTOR SHALL COORDINATE ACCESS TO THE RUNWAY FOR SURVEYING (LAYOUT OF CONTROL, ETC.) WITH THE AIRPORT A MINIMUM OF 24 HOURS BEFORE ACCESSING THE RUNWAY. ACCESS TO THE RUNWAY DURING DAYLIGHT HOURS WILL BE LIMITED TO VFR CONDITIONS ONLY AND AT THE DISCRETION OF THE AIRPORT. THE CONTRACTOR WILL BE REQUIRED TO "PULL BACK" ALL EQUIPMENT AND PERSONNEL FROM THE RUNWAY WHEN DIRECTED BY THE AIRPORT.
8. IN THE AREA WHERE THE HAUL ROUTE CROSSES THE PROPOSED DITCH, THE CONTRACTOR HAS THE OPTION OF INSTALLING AN EQUIVALENT OF TWO 36" TEMPORARY CULVERTS IN THE DITCH, OR PHASING THE GRADING IN A MANNER WHICH ALLOWS THE UPSTREAM PORTION OF THE DITCH TO BE EXCAVATED AFTER THE HAUL ROUTE HAS BEEN REMOVED.
9. AT THE CONCLUSION OF THE RUNWAY PAVING, THE CONTRACTOR SHALL INSTALL AND MAINTAIN ADDITIONAL TEMPORARY CHEVRONS AS CALLED OUT ON THE TEMPORARY DISPLACED THRESHOLD PLAN.

CRITICAL POINTS				
POINT #	DESCRIPTION	LATITUDE	LONGITUDE	ELEVATION (MSL)
1	PAVING OPERATIONS	041° 53' 27.67"	-089° 05' 08.02"	792.3
2	PAPI REMOVAL	041° 53' 30.39"	-089° 05' 03.86"	778.0
3	GRADING OPERATIONS	041° 53' 27.69"	-089° 05' 01.43"	777.5
4	STOCKPILE PLACEMENT	041° 53' 29.97"	-089° 04' 44.20"	785.0



<p>REVISION</p> <p>DATE</p>	<p>ROCHELLE MUNICIPAL AIRPORT MAJOR THOMAS F. KORITZ FIELD ROCHELLE, OGLE COUNTY, ILLINOIS</p> <p>IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15</p>
<p>Hanson Proj. No. 09A0141 Filename: C-006-SFY.dwg Scale: AS SHOWN Date: 01/18/2013</p>	<p>LAYOUT: BSS 12/14/12 DRAWN: MLH 12/14/12 REVIEWED: KES 1/11/13</p>
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<p>EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT</p> <p>CONSTRUCTION SAFETY AND PHASING PLAN - PHASE 2</p>	
<p>6</p> <p>6 of 77 sheets</p>	

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LEGEND

	EXISTING IMPROVEMENTS
	PROPOSED IMPROVEMENTS
	PHASE 3 WORK AREA
	EXISTING BUILDINGS
	PROPOSED CONSTRUCTION STAGING AREA
	PROPOSED CONSTRUCTION HAUL ROUTE
	RUNWAY SAFETY AREA (150' WIDE)
	RUNWAY PROTECTION ZONE
	AIRPORT PROPERTY LINE
	PROPOSED RUNWAY/TAXIWAY CLOSURE CROSS
	PROPOSED BARRICADES
	PROPOSED TEMPORARY CONSTRUCTION SIGN

PHASE 3 NOTES

1. THE WORK ITEMS TO BE COMPLETED IN PHASE 3 INCLUDE REMOVAL OF EXISTING RUNWAY EDGE LIGHTS, INSTALLATION OF NEW RUNWAY EDGE LIGHTS AND INSTALLATION OF A NEW TAXI GUIDANCE SIGN. THE HAUL ROUTE WILL ALSO BE REMOVED.
2. THE CONTRACTOR SHALL HAVE A MAXIMUM OF 14 CALENDAR DAYS TO COMPLETE THE WORK IN THIS PHASE. **THIS WORK SHALL NOT COMMENCE UNTIL AFTER NOVEMBER 4TH, OR AS OTHERWISE APPROVED BY THE AIRPORT MANAGER. CONTRACT TIME WILL BE SUSPENDED IF PHASE 2 IS COMPLETED PRIOR TO NOVEMBER 4TH.**
3. CLOSURE CROSSES AND BARRICADES SHALL BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION.
4. RUNWAY 7-25 SHALL BE NOTAMED "CLOSED". THE PAPIS AND REILS SHALL BE NOTAMED "SHUTDOWN". WHENEVER THE RUNWAY IS CLOSED, ALL ASSOCIATED LIGHTING SHALL BE TURNED OFF OR COMPLETELY COVERED, INCLUDING THE RUNWAY EDGE LIGHTS, PAPIS AND REILS. CONTRACTOR SHALL COORDINATE WITH THE AIRPORT AT LEAST 48 HOURS BEFORE WORKING WITHIN THE RUNWAY SAFETY AREAS SO THAT NOTAMS MAY BE COORDINATED.
5. AT ALL TIMES, THE CONTRACTOR'S OPERATIONS SHALL BE SUCH AS TO MINIMIZE CLOSURES.
6. THE CONTRACTOR MAY WORK IN PHASES 2 AND 3 SIMULTANEOUSLY. HOWEVER, CONTRACT TIME PROVISIONS SHALL STILL BE ENFORCED FOR EACH AREA.
7. THE CONTRACTOR SHALL COORDINATE ACCESS TO THE RUNWAY FOR SURVEYING (LAYOUT OF CONTROL, ETC.) WITH THE AIRPORT A MINIMUM OF 24 HOURS BEFORE ACCESSING THE RUNWAY. ACCESS TO THE RUNWAY DURING DAYLIGHT HOURS WILL BE LIMITED TO VFR CONDITIONS ONLY AND AT THE DISCRETION OF THE AIRPORT. THE CONTRACTOR WILL BE REQUIRED TO "PULL BACK" ALL EQUIPMENT AND PERSONNEL FROM THE RUNWAY WHEN DIRECTED BY THE AIRPORT.

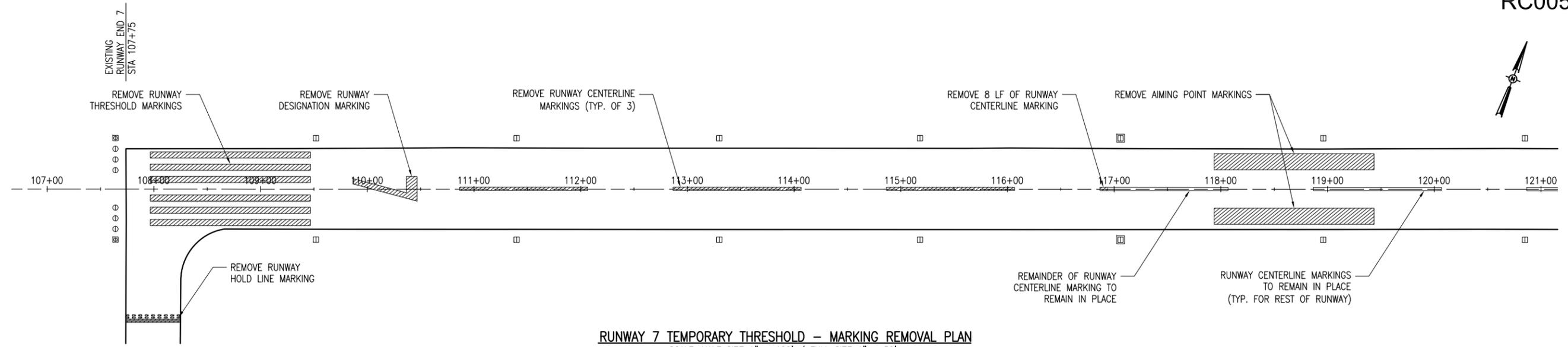
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ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

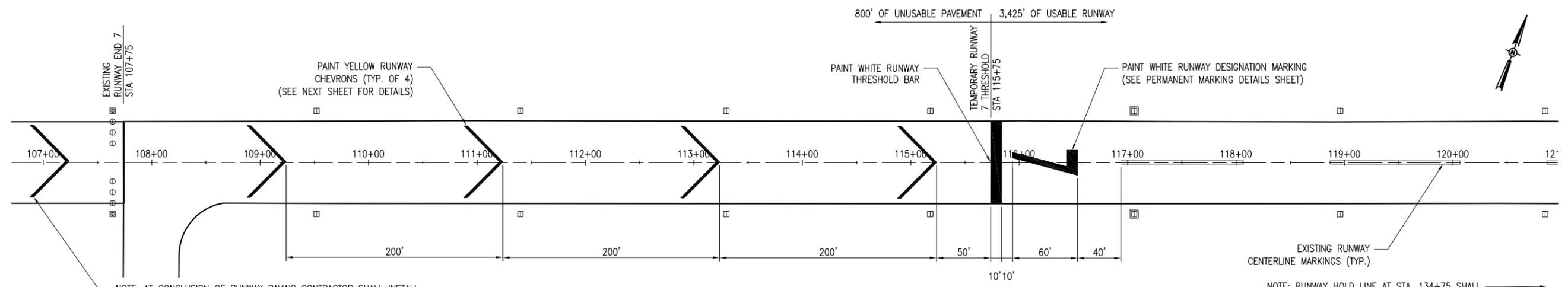
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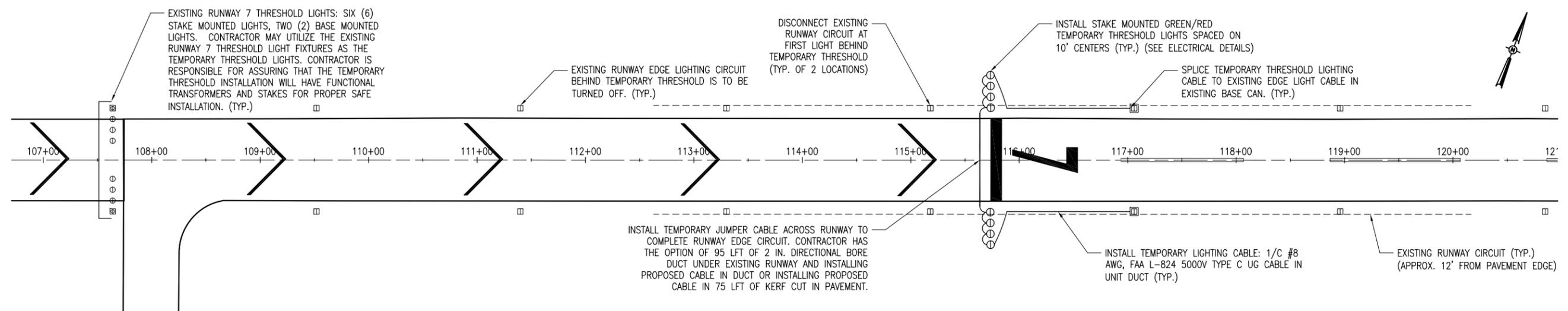
EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT
 CONSTRUCTION SAFETY AND
 PHASING PLAN - PHASE 3



RUNWAY 7 TEMPORARY THRESHOLD - MARKING REMOVAL PLAN
SCALE: HALF SIZE 1" = 100' / FULL SIZE 1" = 50'



RUNWAY 7 TEMPORARY THRESHOLD - TEMPORARY MARKING PLAN
SCALE: HALF SIZE 1" = 100' / FULL SIZE 1" = 50'



RUNWAY 7 TEMPORARY THRESHOLD - TEMPORARY LIGHTING PLAN
SCALE: HALF SIZE 1" = 100' / FULL SIZE 1" = 50'

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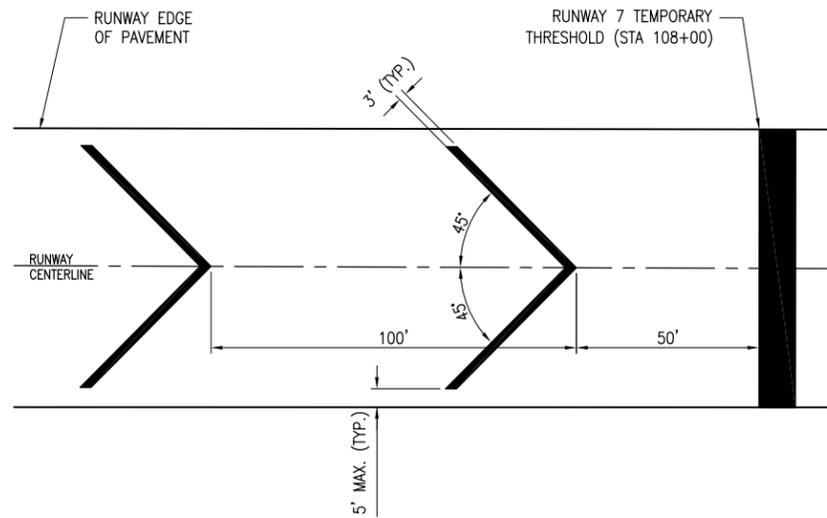
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ROCHELLE, OGLE COUNTY, ILLINOIS
BLOCK GRANT: 3-17-0087-B15
IL PROJ.: RPJ-4243

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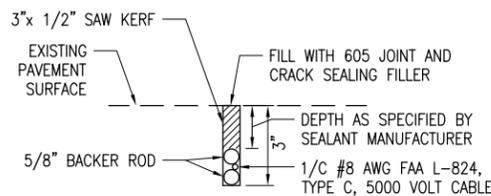
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EXTEND RUNWAY 7-25 TO
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TEMPORARY DISPLACED
THRESHOLD PLAN

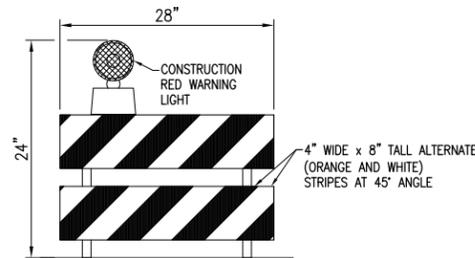
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TEMPORARY CHEVRON MARKINGS
NOT TO SCALE



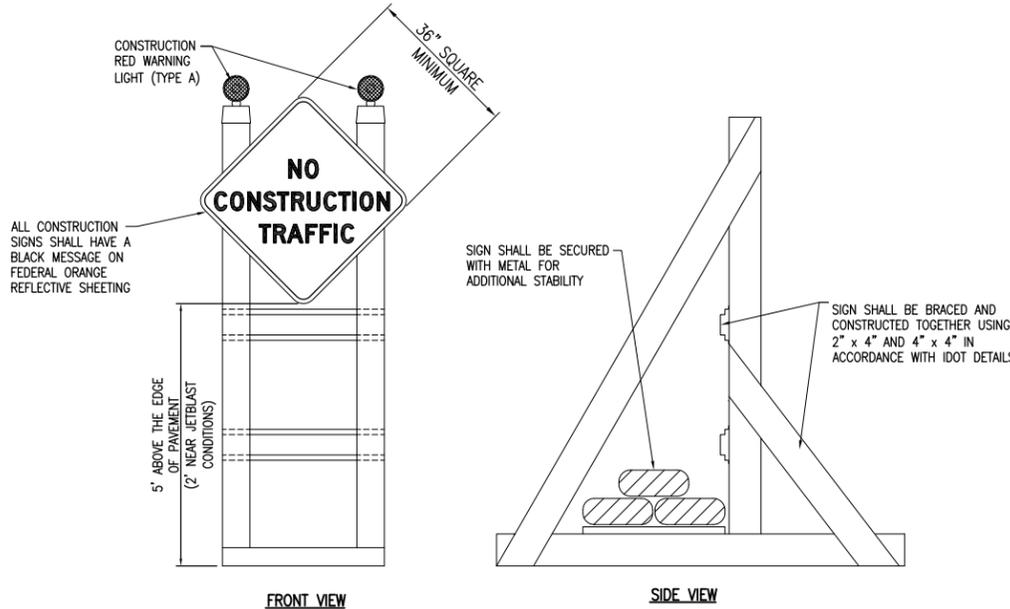
KERF CUT DETAIL FOR TEMPORARY THRESHOLD JUMPER CABLE
NOT TO SCALE



MODIFIED TYPE II BARRICADE
NOT TO SCALE

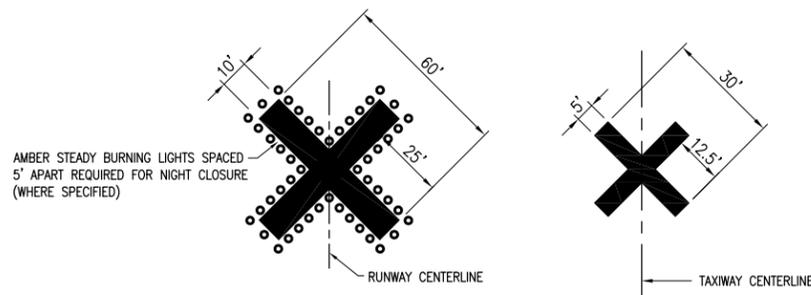
BARRICADE NOTES

- 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 AS DIRECTED BY THE ENGINEER. BARRICADES ARE TO BE SET BACK 66' FROM THE ACTIVE TAXIWAY CENTERLINE OR AS SHOWN ON THE PLANS.
- CONSTRUCTION RED WARNING LIGHT: 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.



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 LIGHT: 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.



CLOSURE CROSS MARKER DETAIL (LIGHTED/UNLIGHTED)
NOT TO SCALE

- 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.
- RUNWAY CLOSURE CROSS MARKINGS SHALL BE LIGHTED DURING DARKNESS AND PERIODS OF REDUCED VISIBILITY.

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 ENGINEER, ENGINEER'S REPRESENTATIVE AND/OR AIRPORT MANAGER RESERVE 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 200' OF ANY ACTIVE RUNWAY, WITHIN 50' OF ANY OTHER ACTIVE AIRPORT OPERATIONS AREA, OR PENETRATE A PART 77 IMAGINARY SURFACE (PROVIDED BY THE 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 200' OF AN ACTIVE RUNWAY CENTERLINE OR WITHIN 50' 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 23' TALL WILL BE PERMITTED ON THE AIRPORT WITHOUT 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 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 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 ENGINEER AT NO ADDITIONAL COST.
- CONTRACTOR SHALL NOT REMOVE THE BARRICADES WITHOUT THE APPROVAL BY THE 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 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 200' OF ANY ACTIVE RUNWAY CENTERLINE OR WITHIN 50' 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 72 HOURS 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.

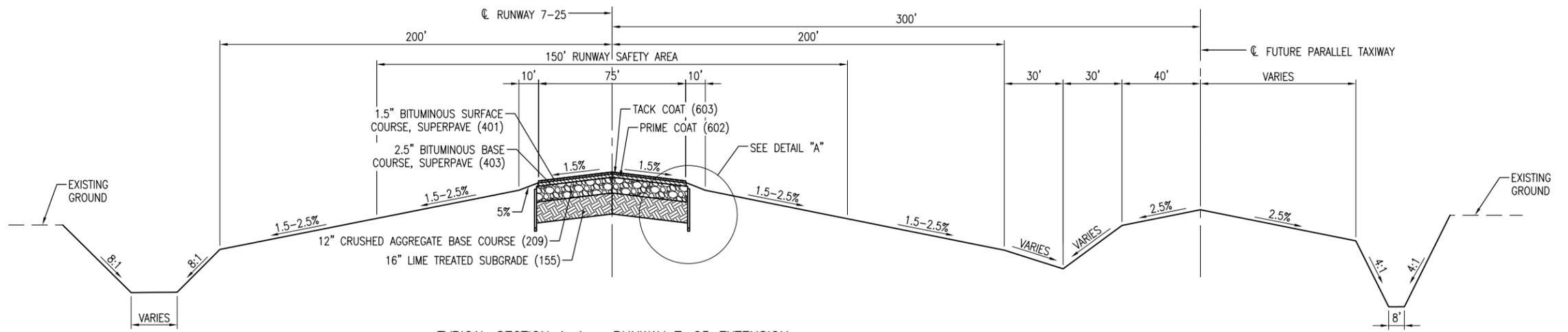
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<p>ROCHELLE MUNICIPAL AIRPORT MAJOR THOMAS F. KORITZ FIELD ROCHELLE, OGLE COUNTY, ILLINOIS</p> <p>IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15</p>	

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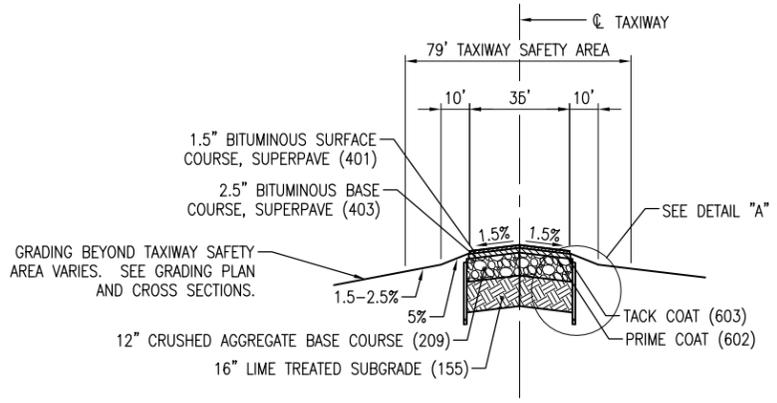


<p>EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT</p> <p>CONSTRUCTION SAFETY AND PHASING DETAILS AND NOTES</p>
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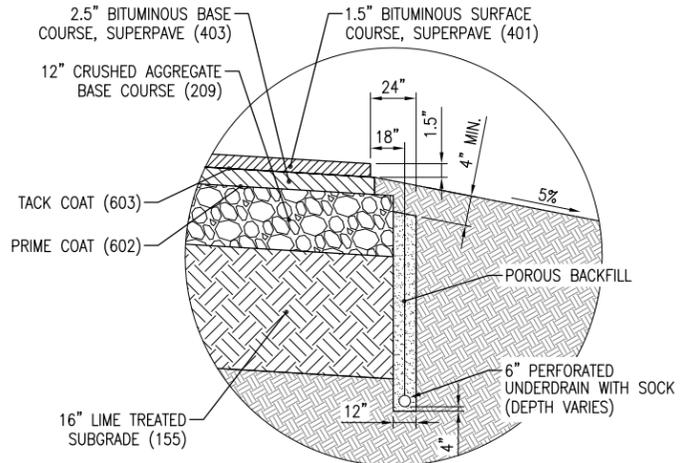
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TYPICAL SECTION A-A - RUNWAY 7-25 EXTENSION
 NOT TO SCALE
 STA. 100+00 TO STA. 107+75, LINE '7-25'
 (SLOPES AND DIMENSIONS VARY AT INTERSECTIONS)

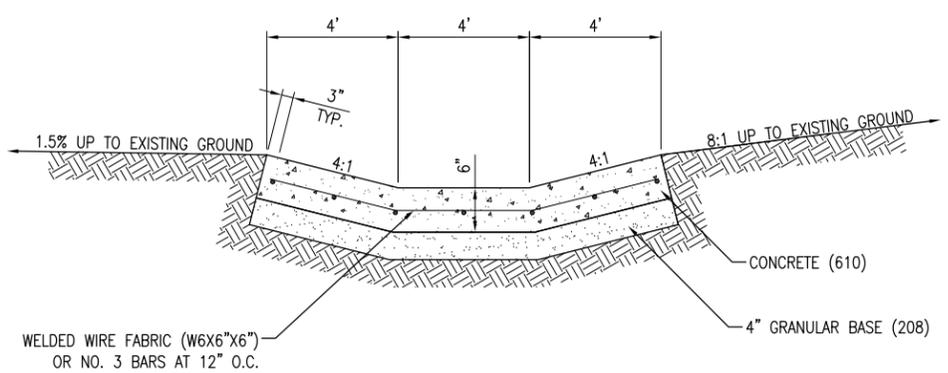


TYPICAL SECTION B-B - RUNWAY END 7 TURNAROUND
 NOT TO SCALE
 STA. 0+37.50 TO STA. 6+66.74, LINE 'TR-1'
 (SLOPES AND DIMENSIONS VARY AT INTERSECTIONS)



DETAIL "A"
 NOT TO SCALE

NOTE: UNDERDRAIN SHALL BE CONSTRUCTED AND PAID FOR IN ACCORDANCE WITH ITEM 705 OF THE STANDARD SPECIFICATIONS.



TYPICAL SECTION C-C - PAVED DITCH
 NOT TO SCALE

- PAVED DITCH NOTES**
- PAVED DITCH SHALL BE CONSTRUCTED AND PAID FOR IN ACCORDANCE WITH ITEM 754 OF THE STANDARD SPECIFICATIONS.
 - EXPANSION JOINTS SHALL BE FORMED OR CUT EVERY 75'. CONTRACTION JOINTS SHALL BE CUT OR TOOLED AT SPACING NOT TO EXCEED 15'.

REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 BLOCK GRANT: 3-17-0087-B15
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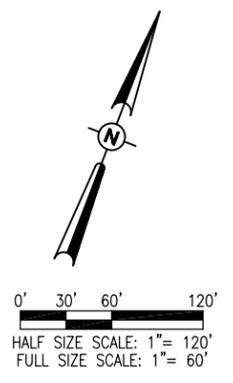
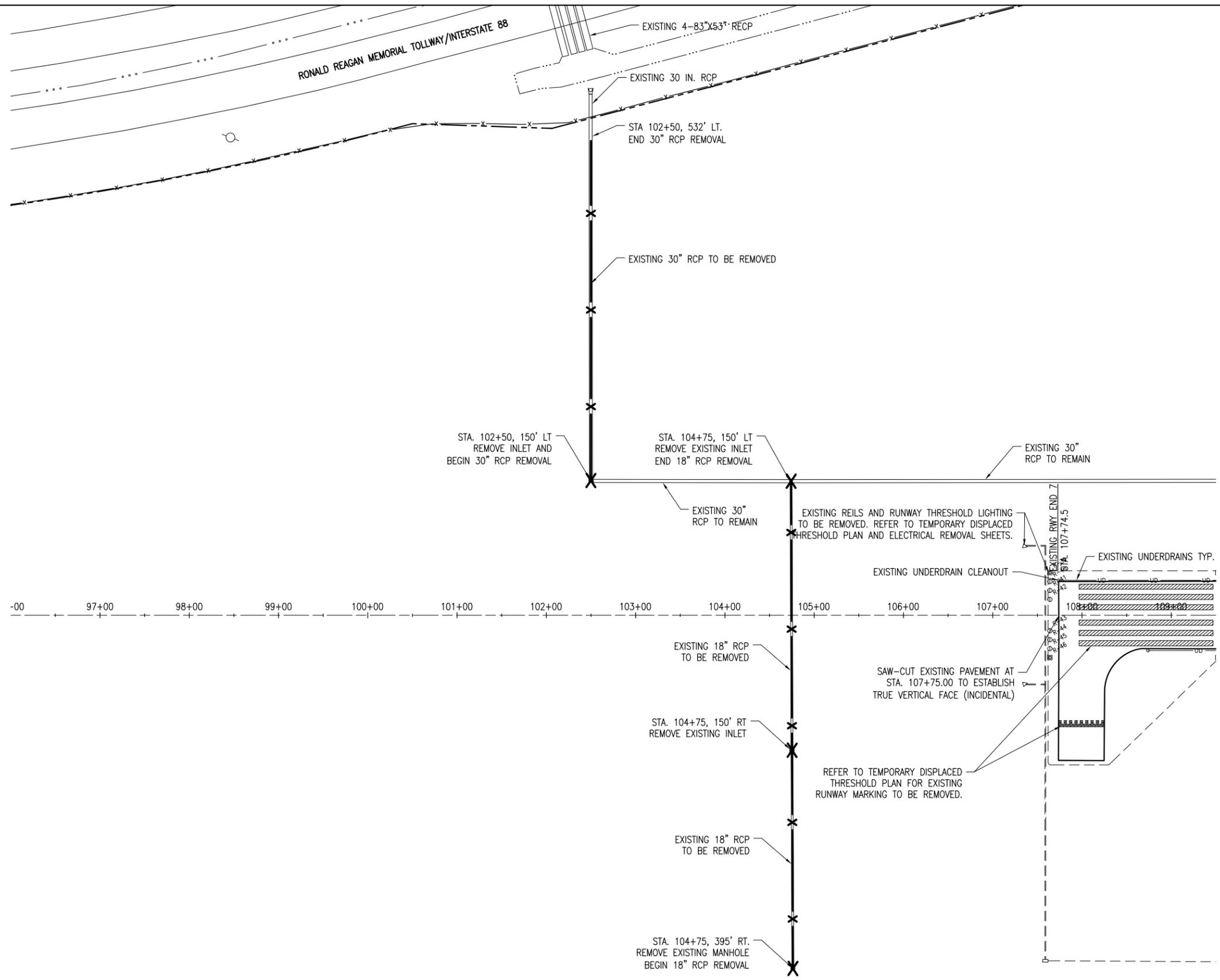
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EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT
 PROPOSED TYPICAL
 SECTIONS

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LEGEND

	EXISTING PAVEMENT
	PROPOSED PAVEMENT
	EXISTING MANHOLE
	EXISTING INLET
	EXISTING UNDERDRAIN
	AIRPORT PROPERTY LINE

RC005

REVISION
DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS

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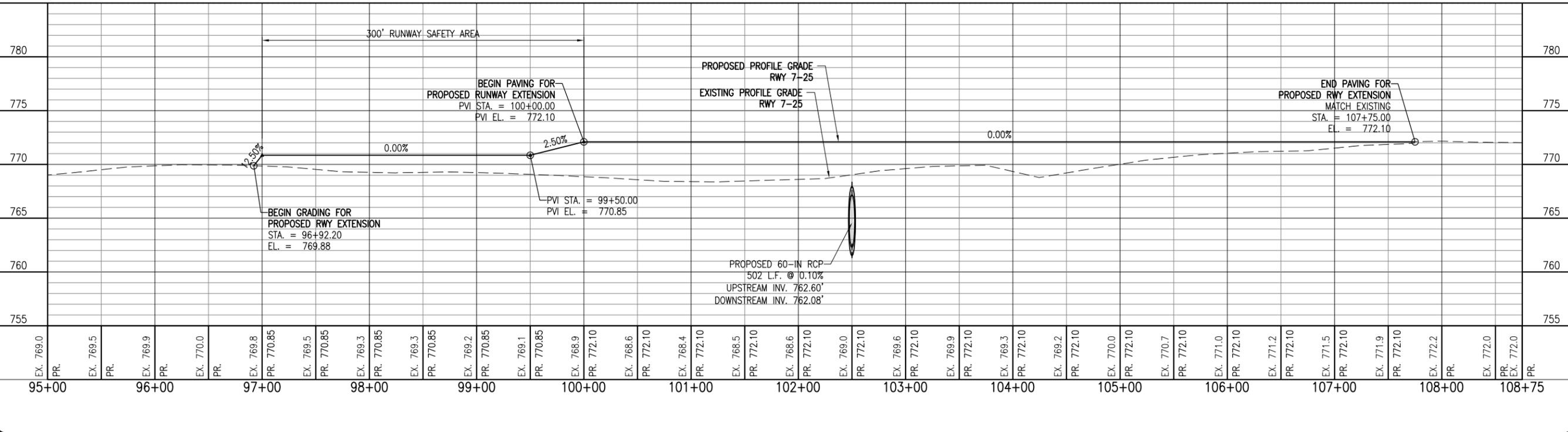
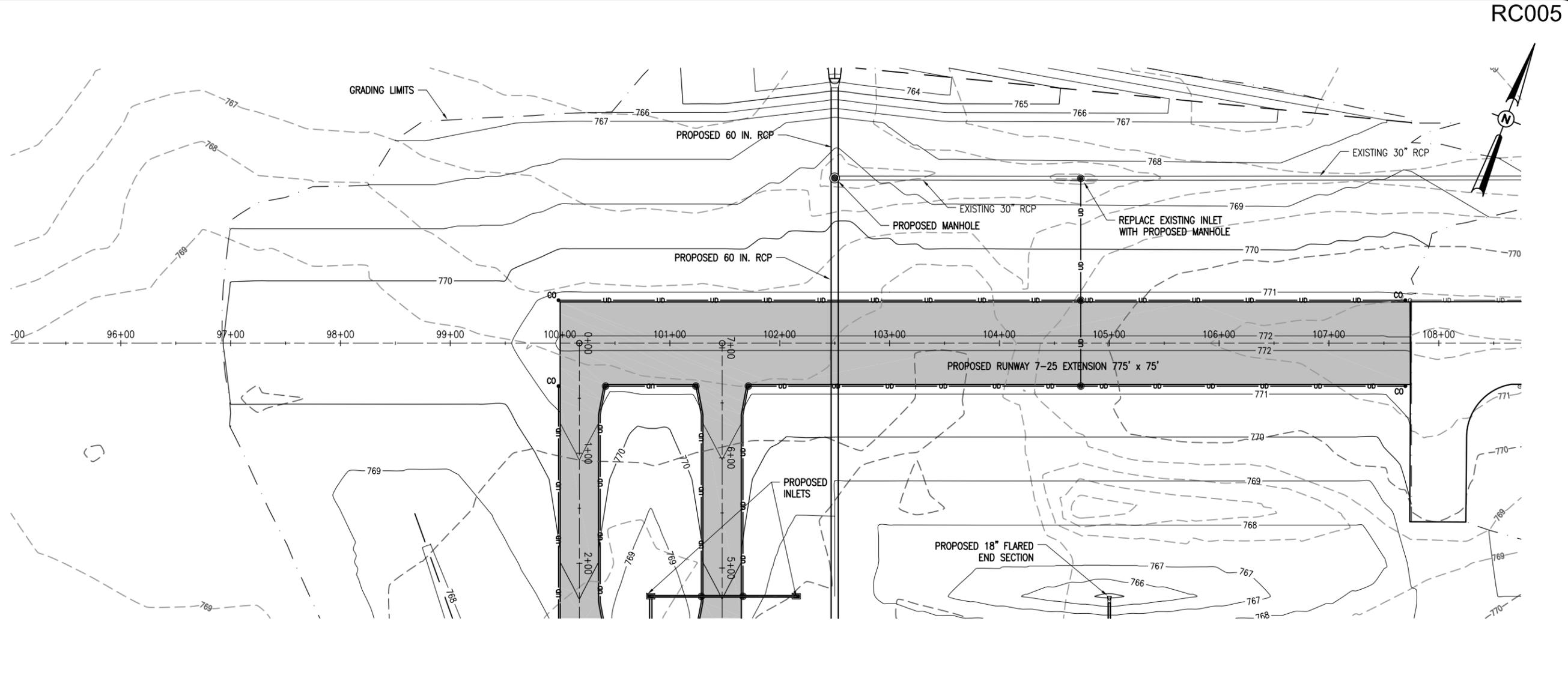
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EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT

CIVIL SITE DEMOLITION PLAN

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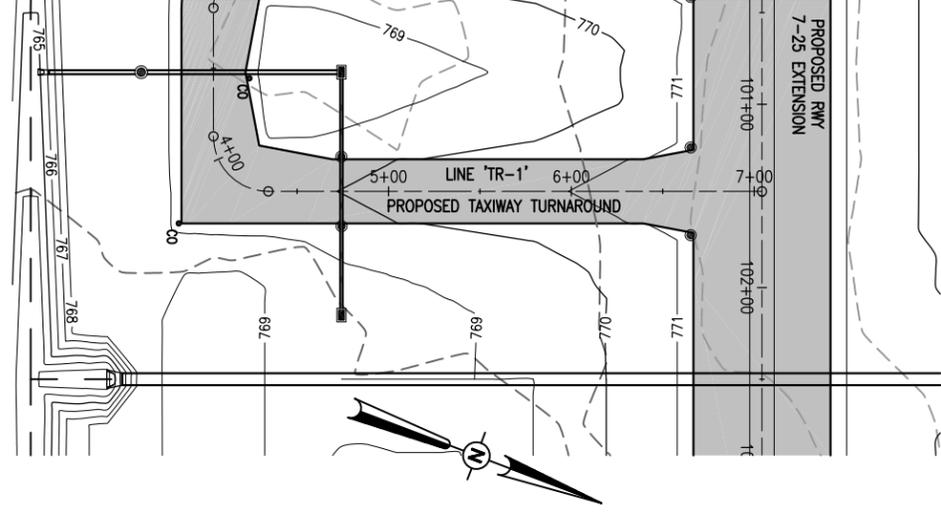
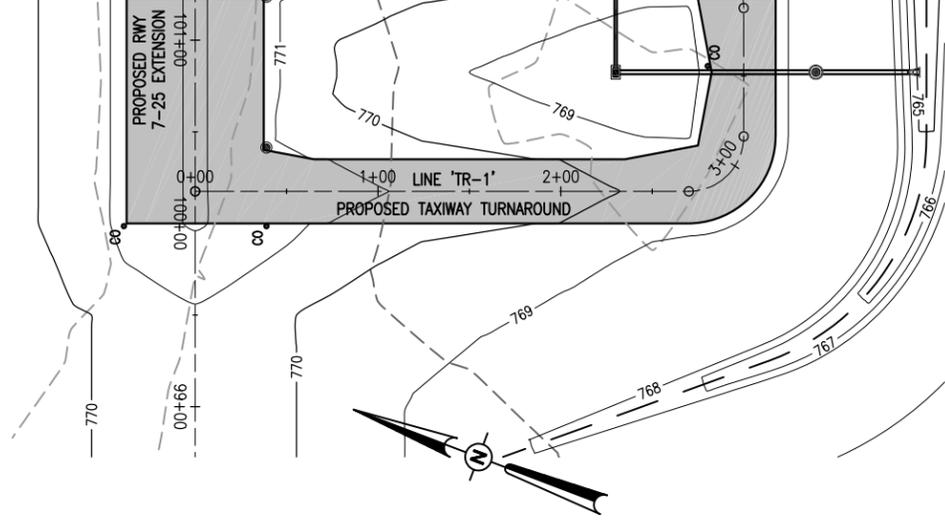
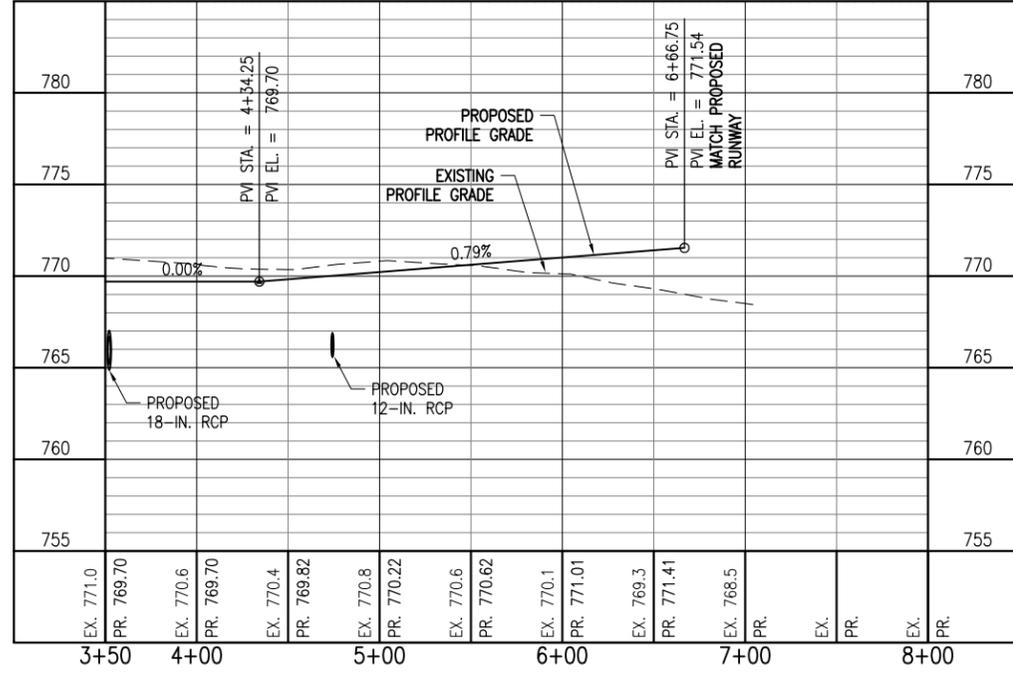
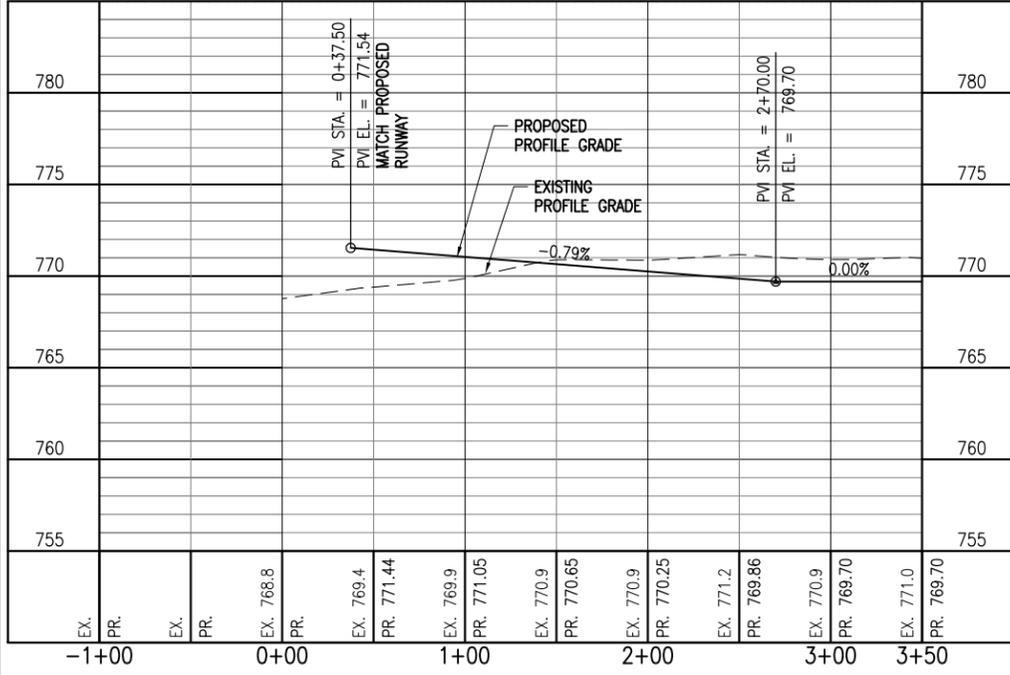
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ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS
 IL PROJ.: RPJ-4243
 BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	12/01/12
Filename C-701-PNP.dwg	KBS
Scale 1"=50'H 1"=5'V	MLH
Date 01/18/2013	KBS
LAYOUT	1/11/13
DRAWN	
REVIEWED	

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EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT
 PLAN AND PROFILE
 RUNWAY 7-25
13
 13 of 77 sheets



EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT
 PLAN AND PROFILE RUNWAY 7
 END TURNAROUND

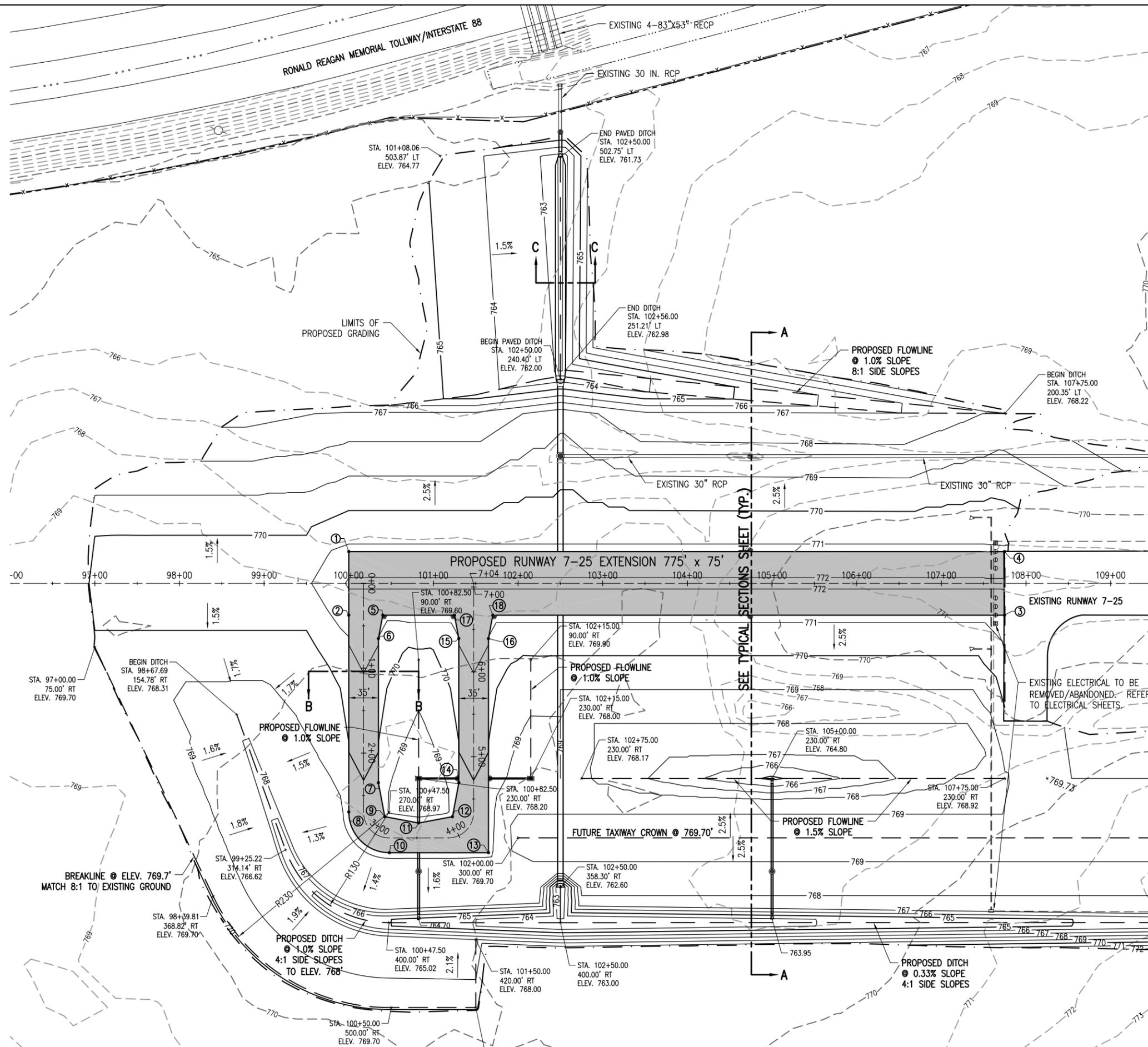


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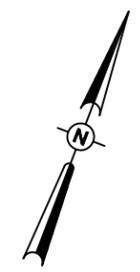
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 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

DATE	REVISION

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MATCHLINE - STA. 109+50 RUNWAY 7-25



0' 30' 60' 120'
 HALF SIZE SCALE: 1" = 120'
 FULL SIZE SCALE: 1" = 60'

LEGEND

- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- EXISTING MANHOLE
- PROPOSED MANHOLE
- EXISTING INLET
- PROPOSED INLET
- EXISTING UNDERDRAIN
- PROPOSED UNDERDRAIN
- AIRPORT PROPERTY LINE

PAVEMENT EDGE LOCATION DATA TABLE				
POINT #	LINE	STATION	OFFSET	ELEVATION
①	RWY 7-25	100+00.00	37.50' LT	771.54
②	RWY 7-25	100+00.00	37.50' RT	771.54
③	RWY 7-25	107+75.00	37.50' LT	MATCH EX.
④	RWY 7-25	107+75.00	37.50' RT	MATCH EX.
⑤	TR-1	00+37.50	22.66' LT	771.54
⑥	TR-1	00+65.00	17.50' LT	771.06
⑦	TR-1	2+35.00	17.50' LT	769.71
⑧	TR-1	2+69.50	17.50' RT	769.44
⑨	TR-1	2+93.56	22.93' LT	769.36
⑩	TR-1	3+17.12	17.50' RT	769.44
⑪	TR-1	3+52.12	17.50' LT	769.44
⑫	TR-1	4+10.69	22.93' LT	769.36
⑬	TR-1	4+10.69	37.18' RT	769.44
⑭	TR-1	4+69.25	17.50' LT	769.71
⑮	TR-1	6+39.25	17.50' LT	771.06
⑯	TR-1	6+39.25	17.50' LT	771.06
⑰	TR-1	6+66.75	22.66' LT	771.54
⑱	TR-1	6+66.75	22.66' RT	771.54

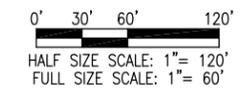
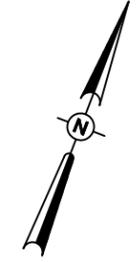
REVISION	
DATE	

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 BLOCK GRANT: 3-17-0087-B15
 IL PROJ.: RPJ-4243

Hanson Proj. No.	09A0141	LAYOUT	KBS	12/14/12
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Date	01/18/2013			

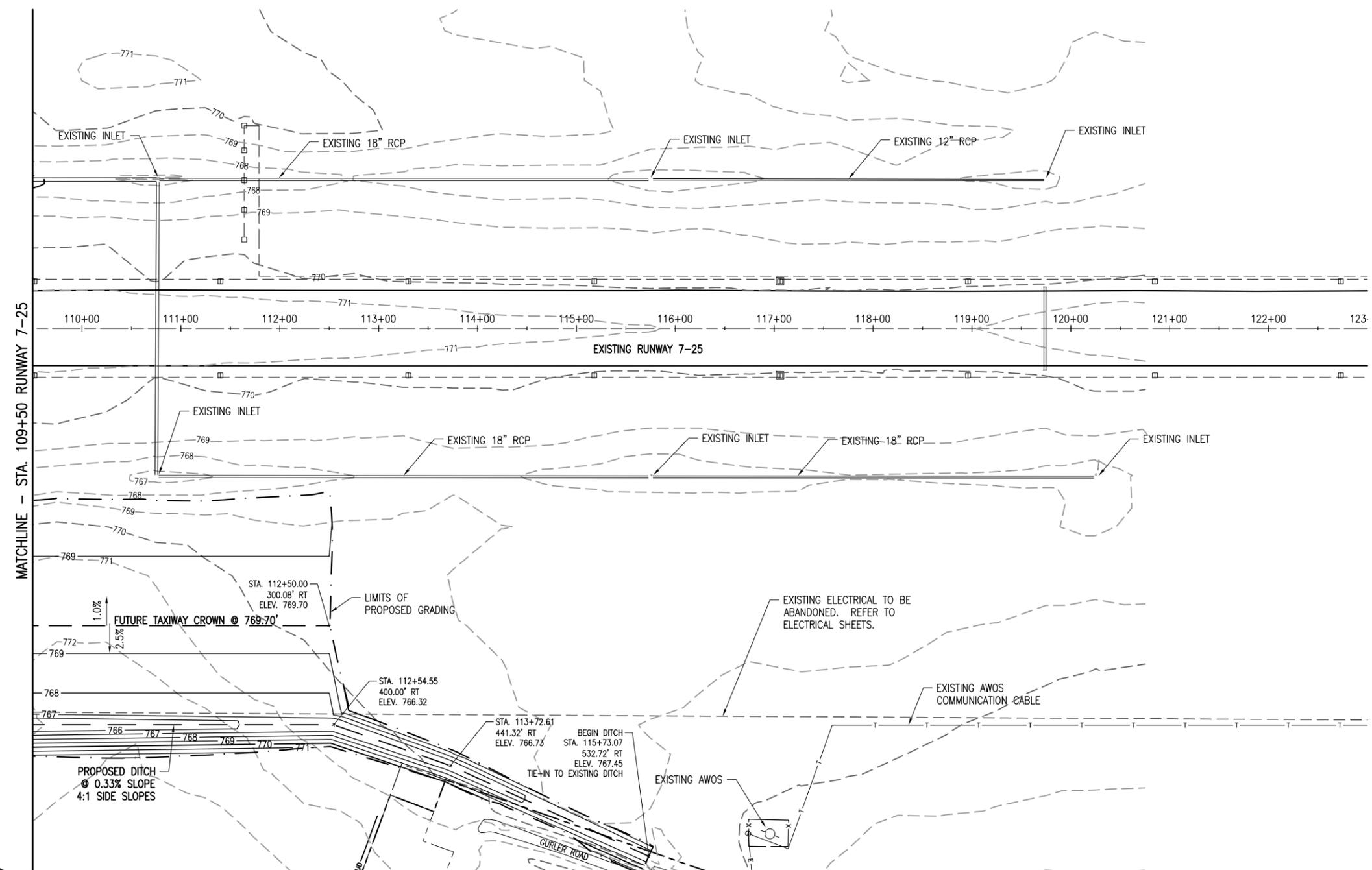


EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT
 GRADING PLAN STA. 96+00
 TO 109+50



LEGEND

- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- EXISTING MANHOLE
- PROPOSED MANHOLE
- EXISTING INLET
- PROPOSED INLET
- EXISTING UNDERDRAIN
- PROPOSED UNDERDRAIN
- AIRPORT PROPERTY LINE



MATCHLINE - STA. 109+50 RUNWAY 7-25

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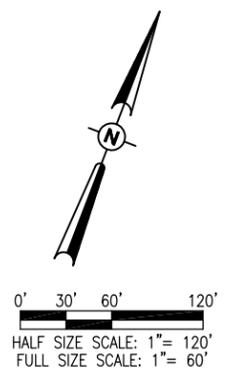
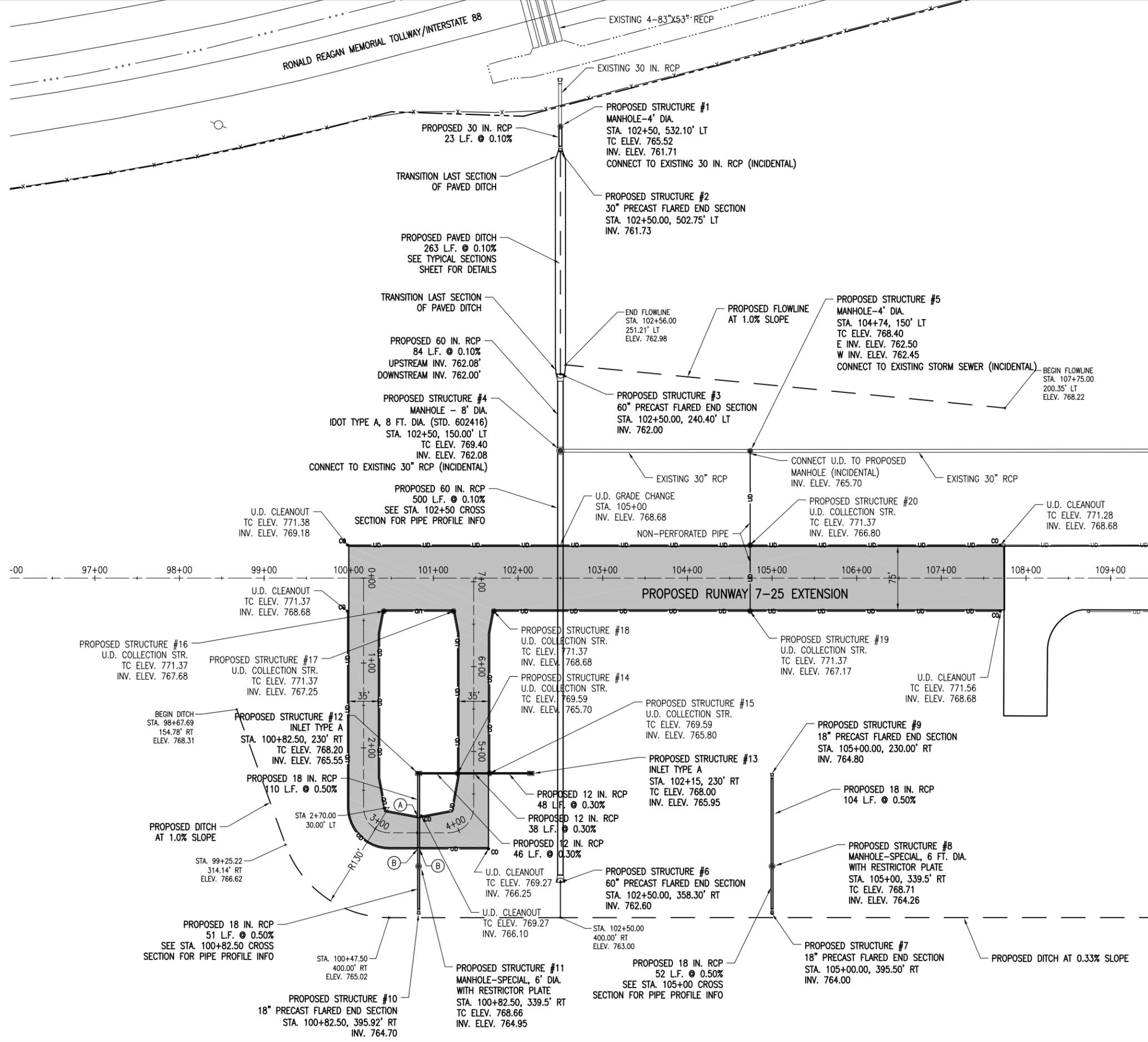
REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	12/14/12
Filename C-131-GRD.dwg	KBS
Scale AS SHOWN	MLH
Date 01/18/2013	REVIEWED
	KBS
	1/11/13

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EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT
 GRADING PLAN STA. 109+50
 TO STA. 123+00



- LEGEND**
- EXISTING PAVEMENT
 - PROPOSED PAVEMENT
 - EXISTING MANHOLE
 - PROPOSED MANHOLE
 - EXISTING INLET
 - PROPOSED INLET
 - EXISTING UNDERDRAIN CLEANOUT
 - PROPOSED UNDERDRAIN CLEANOUT
 - EXISTING UNDERDRAIN
 - PROPOSED UNDERDRAIN
 - EXISTING DITCH LINE
 - PROPOSED DITCH LINE
 - AIRPORT PROPERTY LINE
- (A) CORE DRILL PROPOSED RCP TO CONNECT PROPOSED UNDERDRAIN (U.D. INV. ELEV. 766.04). PROVIDE WATERTIGHT SEAL AT PIPE CONNECTIONS USING WATER SEALING GROUT. COST INCIDENTAL TO UNDERDRAIN. CORE TOP OF PROPOSED RCP AND MOUNT INSPECTION HOLE (TOP OF CASTING ELEV. 769.27).
- (B) CORE DRILL PROPOSED RCP TO CONNECT PROPOSED UNDERDRAIN (U.D. INV. ELEV. 765.84). PROVIDE WATERTIGHT SEAL AT PIPE CONNECTIONS USING WATER SEALING GROUT. COST INCIDENTAL TO UNDERDRAIN. CORE TOP OF PROPOSED RCP AND MOUNT INSPECTION HOLE (TOP OF CASTING ELEV. 769.27).

MATCHLINE - STA. 109+50 RUNWAY 7-25

REVISION	
DATE	

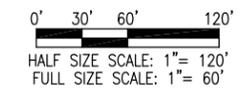
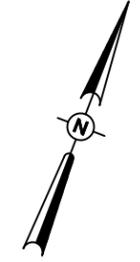
ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 BLOCK GRANT: 3-17-0087-B15
 IL PROJ.: RPJ-4243

Hanson Proj. No. 09A0141	
Filename C-121-DRN.dwg	
Scale AS SHOWN	
Date 01/18/2013	
LAYOUT	KBS 12/14/12
DRAWN	MLH 12/14/12
REVIEWED	KBS 1/11/13



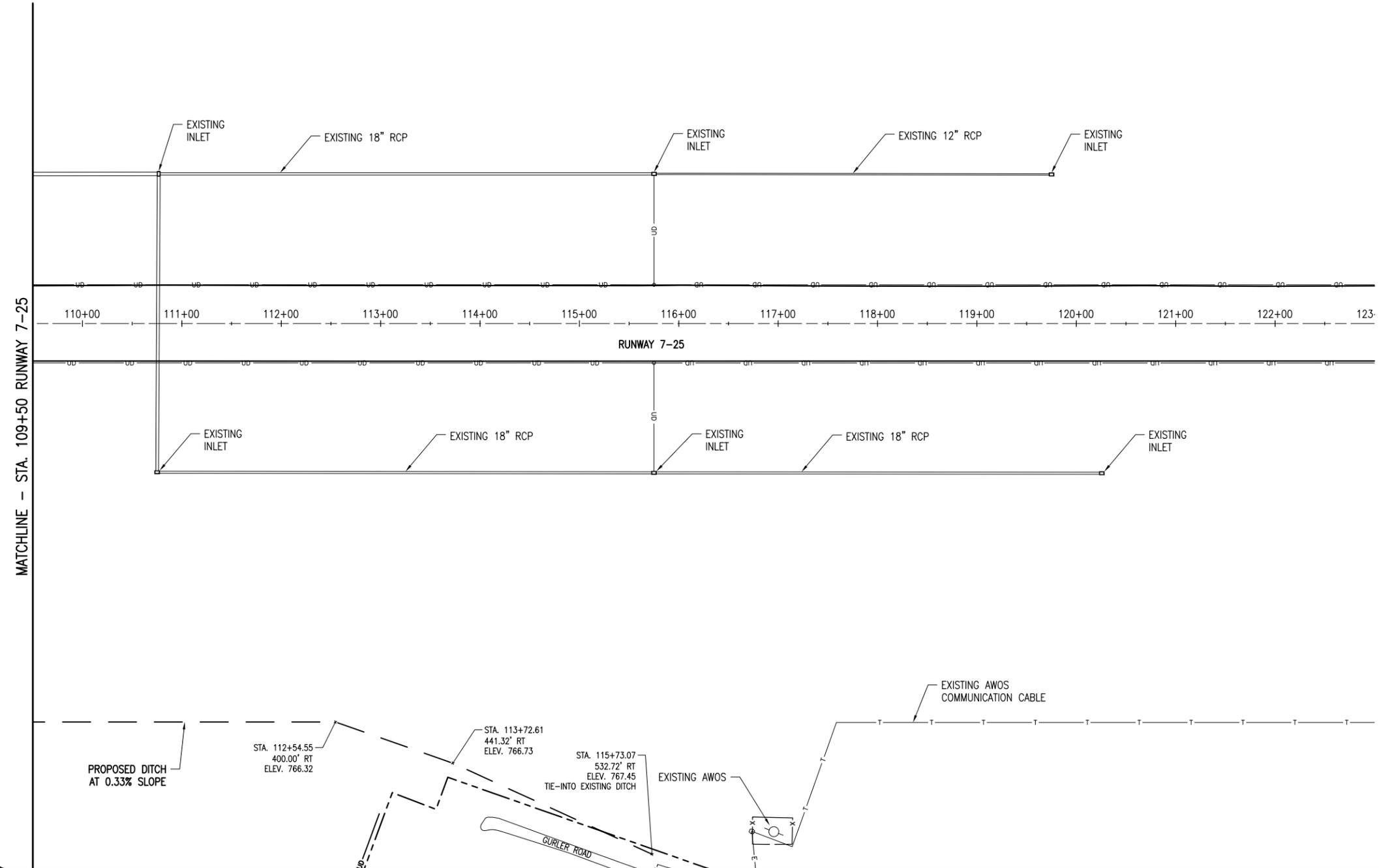
EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT
 DRAINAGE PLAN - STA. 96+50
 TO STA. 109+50

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LEGEND

- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- EXISTING MANHOLE
- EXISTING INLET
- EXISTING UNDERDRAIN
- PROPOSED DITCH LINE
- AIRPORT PROPERTY LINE



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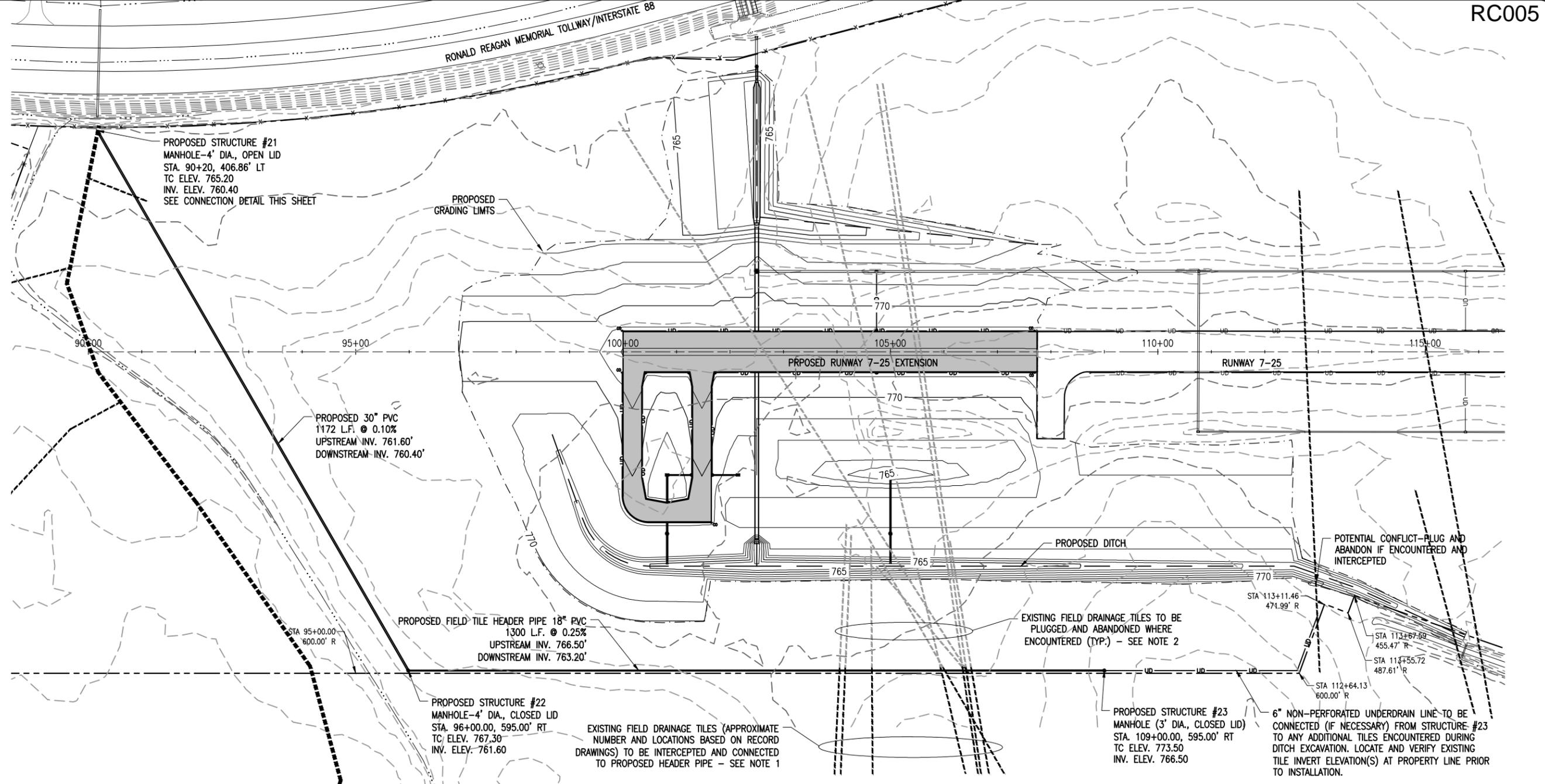
REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	12/14/12
Filename C-121-DRN.dwg	KBS
Scale AS SHOWN	MLH
Date 01/18/2013	KBS
LAYOUT	REVIEWED
DRAWN	

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EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT
 DRAINAGE PLAN - STA. 109+50
 TO STA. 123+00



REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS

IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	12/14/12
Filename: C-122-DRN2.dwg	KBS
Scale: AS SHOWN	MLH
Date: 01/18/2013	REVIEWED
	1/11/13

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EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT

FIELD TILE DRAINAGE PLAN

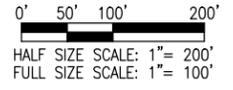
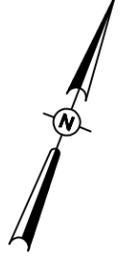
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FIELD TILE NOTES

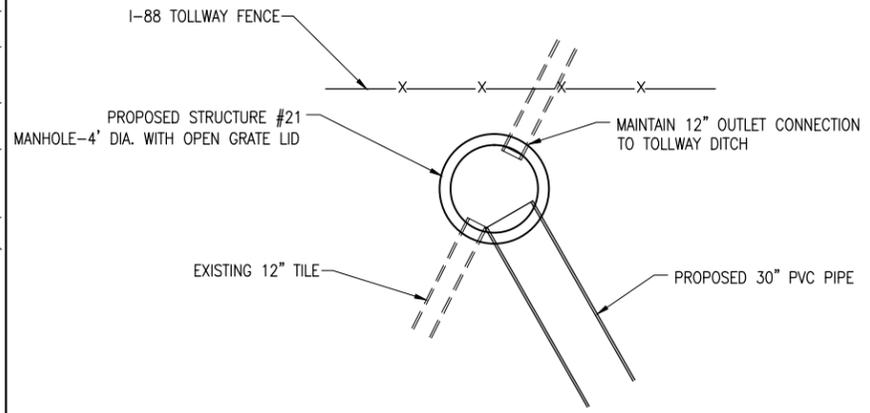
1. ALL EXISTING FIELD TILES ENCOUNTERED DURING HEADER PIPE INSTALLATION SHALL BE CONNECTED TO THE PIPE. TILE SIZES, MATERIALS, AND ELEVATIONS WILL VARY, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A STURDY, WATER-TIGHT CONNECTION FROM EACH FIELD TILE TO THE HEADER PIPE. ALL ASSOCIATED MATERIALS AND LABOR REQUIRED TO MAKE EACH CONNECTION SHALL BE INCLUDED AND PAID FOR UNDER ITEM AR152530 - "FIELD TILE ADJUSTMENT".
2. THE DOWNSTREAM PORTIONS OF ANY INTERCEPTED FIELD TILES SHALL BE PLUGGED AND ABANDONED WHEREVER THEY ARE ENCOUNTERED DURING EARTH EXCAVATION OR PIPE INSTALLATION. THE CONTRACTOR SHALL EXPOSE THE TILE BACK TO A POINT WHERE IT HAS A MINIMUM OF 12" OF COVER, AND PLUG IT WITH CONCRETE OR GROUT. THE COST OF PLUGGING AND ABANDONING FIELD TILES ENCOUNTERED SHALL BE INCIDENTAL TO THE UNCLASSIFIED EXCAVATION.
3. LOCATIONS AND NUMBER OF EXISTING FIELD TILES SHOWN ARE BASED ON RECORD DRAWINGS AND MAY VARY.
4. BEDDING FOR PVC PIPE SHALL CONFORM TO IDOT FA1, FA2, FA6, OR FA21 GRADATIONS, AND BE PLACED TO A MINIMUM HEIGHT OF 12" OVER THE TOP OF THE PIPE. THE COST OF ALL BEDDING AND BACKFILL IS INCIDENTAL TO THE ASSOCIATED PVC STORM SEWER PAY ITEM.

LEGEND

- PROPOSED PAVEMENT
- CONSTRUCTION LIMITS
- EXISTING TILE TO BE PLUGGED & ABANDONED
- EXISTING TILE TO REMAIN
- AIRPORT PROPERTY LINE

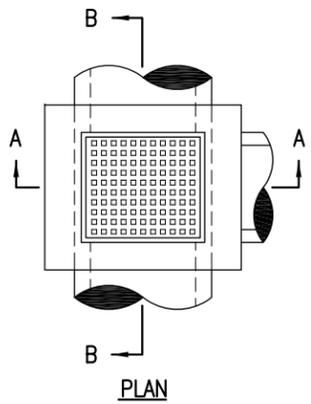


STRUCTURE #21 CONNECTION DETAIL
 NOT TO SCALE



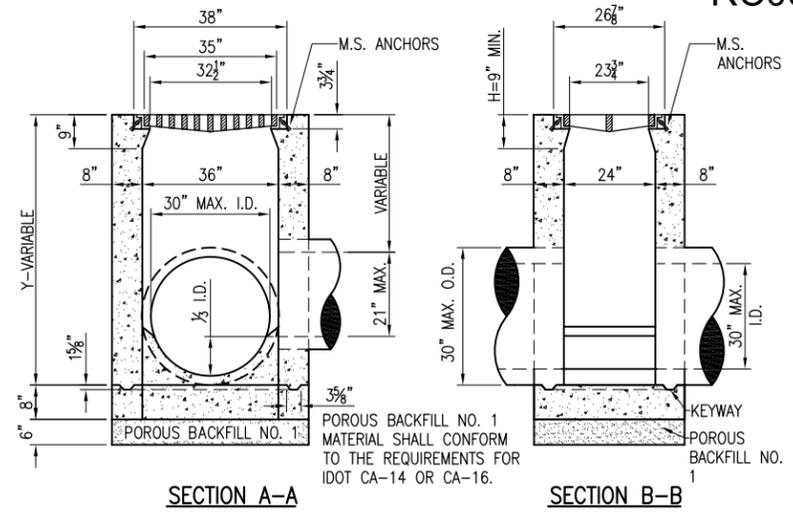
DRAINAGE STRUCTURE NOTES

- STRUCTURE NUMBERS 1, 5, 21 & 22 SHALL CONFORM TO IDOT STANDARD 602401-03 "MANHOLE TYPE A" WITH IDOT STANDARD 604001-03 "FRAME AND LIDS, TYPE I" CASTING. ALL MATERIALS AND LABOR COSTS SHALL BE PAID FOR UNDER ITEM AR751540 "MANHOLE-4".
- ALL FLARED END SECTIONS (STRUCTURES 2, 3, 6, 7, 9 & 10) SHALL BE GRATED PER DETAILS ON THIS SHEET.
- STRUCTURE NUMBER 4 SHALL CONFORM TO IDOT STANDARD 602416-03 "MANHOLE TYPE A 8" DIAMETER" WITH IDOT STANDARD 604001-03 "FRAME AND LIDS, TYPE I" CASTING. ALL MATERIALS AND LABOR COSTS SHALL BE PAID FOR UNDER ITEM AR751568 "MANHOLE-8".
- SPECIAL MANHOLE STRUCTURES NUMBERS 8 AND 11 ARE DETAILED ON THE NEXT SHEET.
- INLET STRUCTURES NUMBERS 12 & 13 SHALL BE AS DETAILED ON THIS SHEET.
- UNDERDRAIN COLLECTION STRUCTURES NUMBERS 14-20 ARE SHOWN ON THE UNDERDRAIN DETAILS SHEET. ALL ASSOCIATED MATERIALS AND LABOR COSTS SHALL BE PAID FOR UNDER ITEM AR705635 - "UNDERDRAIN COLLECTION STRUCTURE".
- STRUCTURE NUMBER 23 SHALL CONFORM TO IDOT STANDARD 602306-03 "INLET TYPE B" WITH IDOT STANDARD 604001-03 "FRAME AND LIDS, TYPE I". ALL MATERIALS AND LABOR COSTS SHALL BE PAID FOR UNDER ITEM AR751530 "MANHOLE".

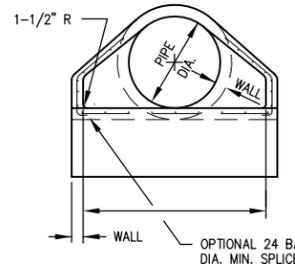
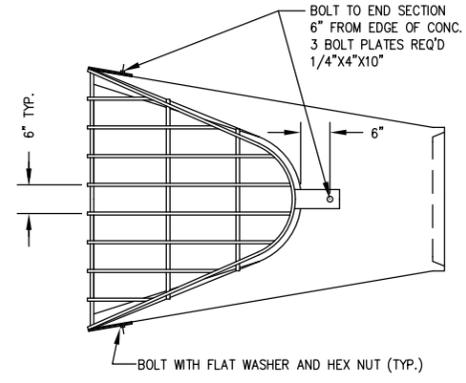


REINFORCING STEEL BAR TYPE

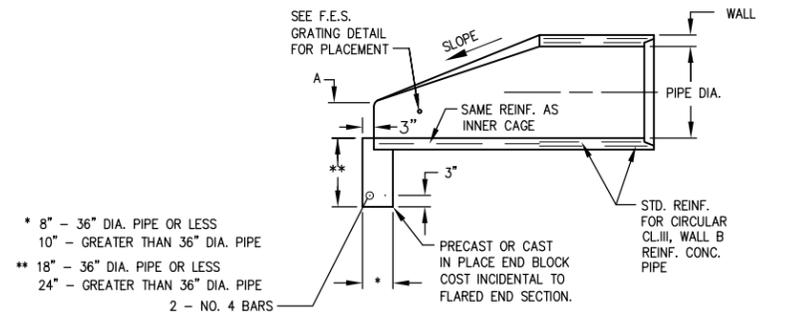
REINFORCING BARS SCHEDULE					
TYPE	QUANTITY PER INLET	DIMENSIONS		SIZE	APPROX. WT. OF BARS IN INLET
		A	B		
A	2	3'-4"	2'-4"	#5	16.7



INLET TYPE A
(STRUCTURE NUMBERS 12 AND 13)

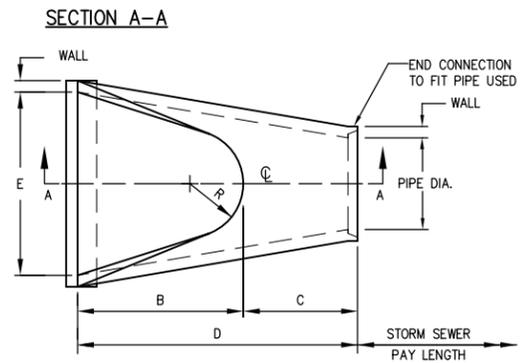


END VIEW



SECTION A-A

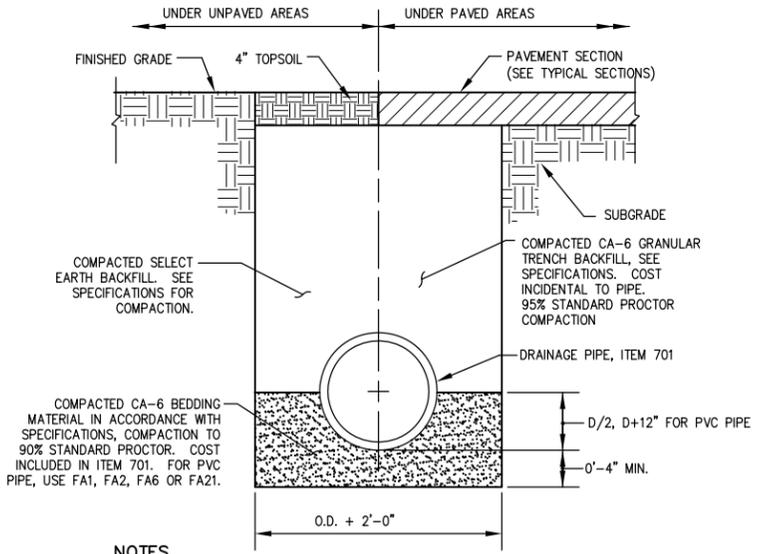
- * 8" - 36" DIA. PIPE OR LESS
10" - GREATER THAN 36" DIA. PIPE
- ** 18" - 36" DIA. PIPE OR LESS
24" - GREATER THAN 36" DIA. PIPE



TOP VIEW

NOTES

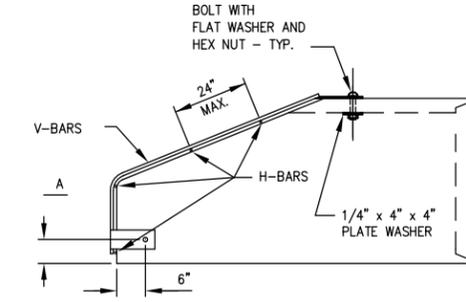
- GRATING SHALL BE PAID FOR UNDER ITEMS AR752518, AR752530, AR752560.
- THE END BLOCK SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE FLARED END SECTION. THE END BLOCK SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 502.10 OF IDOT SPECIFICATIONS, WITH COST INCIDENTAL TO FLARED END SECTION.
- PRECAST CONCRETE FLARED END SECTIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-170 CLASS III, WALL B REINFORCED CONCRETE PIPE.
- MODIFICATION IS DUE TO THE RELOCATION OF THE CONNECTION POINT BETWEEN THE GRATE AND THE FLARED END SECTION.



NOTES

- UNSUITABLE MATERIAL ENCOUNTERED DURING PLACEMENT OF BEDDING SHALL BE REMOVED AND REPLACED.
- WITHIN 3 FEET OF PAVED AREA, GRANULAR BACKFILL IS TO BE USED INSTEAD OF EARTH BACKFILL.
- 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



GRATING FOR FLARED END SECTION

END SECTIONS	DIA. INCHES	V-BAR SIZE	H-BAR SIZE	No. OF H-BARS REQ'D.	BOLT DIA.	"A" DIM.
	INCHES				INCHES	
	18	1/2"	5/8"	4	1/2	4 1/2
	30	5/8"	3/4"	4	1/2	5 1/2
	60	3/4"	1-1/2" PIPE	5	3/4	8

NOTES

- BARS AND PLATES ARE HOT ROLLED STEEL.
- BARS, PLATES, PIPE AND BOLTS ARE GALVANIZED.

PIPE DIA.	WALL	A	B	C	D	E	R	SLOPE
18"	2 1/2"	9"	2'-3"	3'-10"	6'-1"	3'-0"	12"	3:1
30"	3 1/2"	1'-0"	4'-6 1/2"	1'-7 3/4"	6'-1 3/4"	5'-0"	15"	3:1
60"	6"	2'-11"	5'-0"	3'-3"	8'-3"	8'-0"	*	3:1

* RADIUS AS FURNISHED BY MANUFACTURER

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

REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

BLOCK GRANT: 3-17-0087-B15

IL PROJ.: RPJ-4243

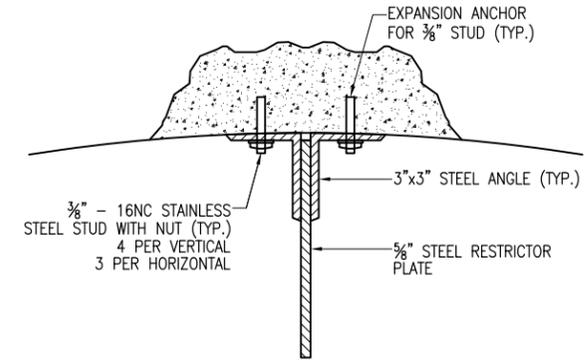
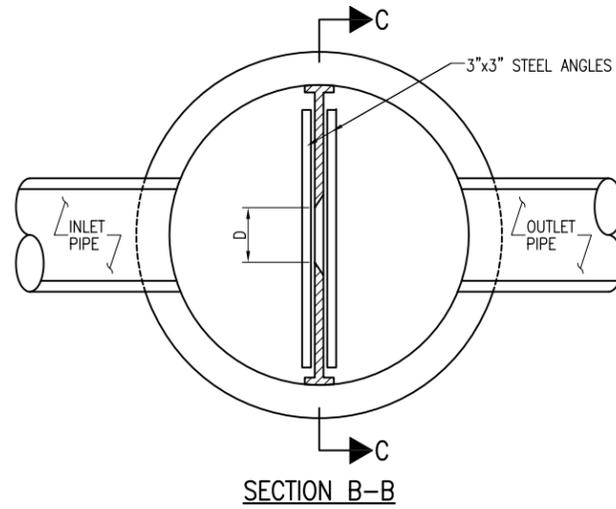
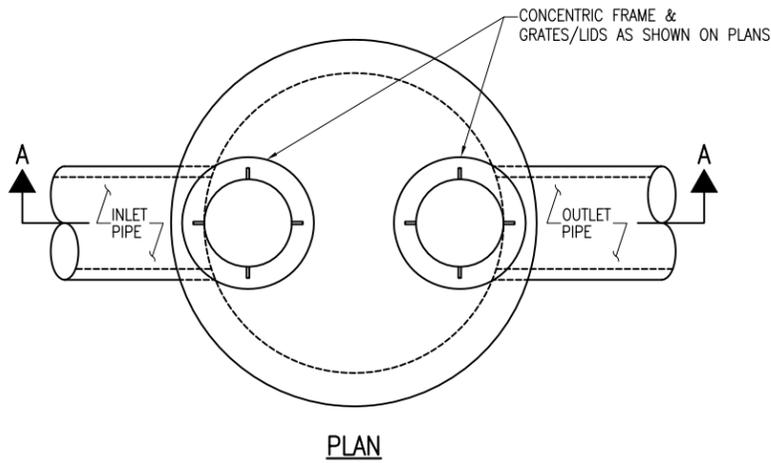
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Filename: C-503-DETL.dwg	MLH
Scale: NOT TO SCALE	MLH
Date: 01/18/2013	MLH
LAYOUT	REVIEWED
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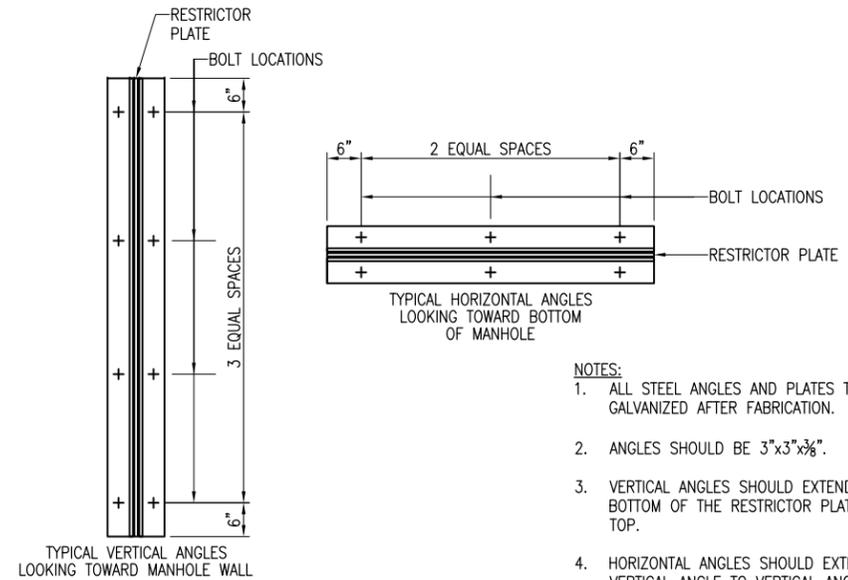
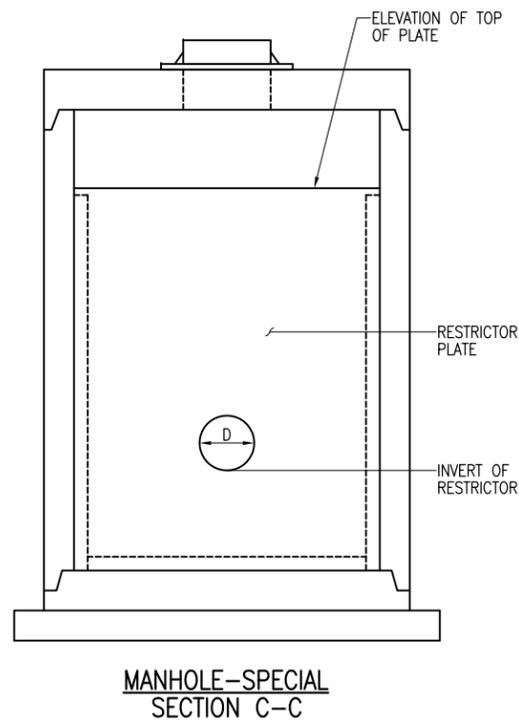
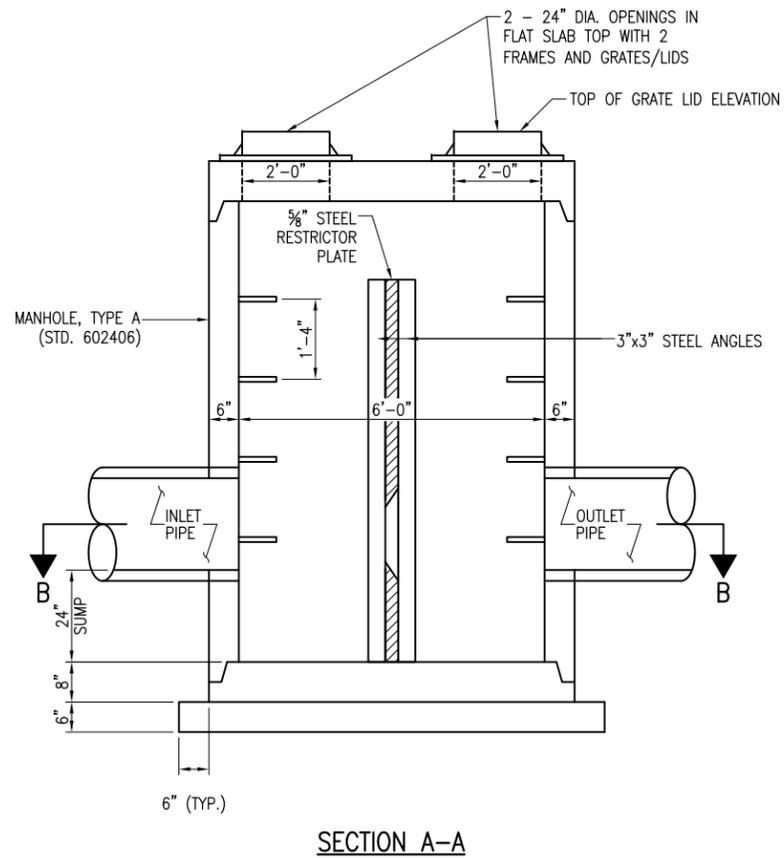
EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

DRAINAGE DETAILS



NOTES:

1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
3. ALL MATERIALS AND LABOR COSTS REQUIRED FOR COMPLETE FABRICATION AND INSTALLATION OF THE STRUCTURES SHALL BE PAID FOR UNDER ITEM AR751570 "MANHOLE-SPECIAL".

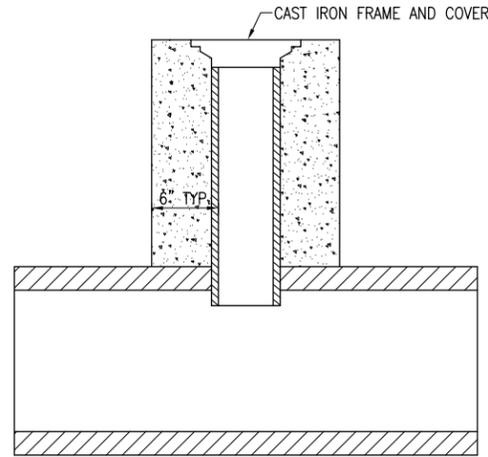


NOTES:

1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
2. ANGLES SHOULD BE 3"x3"x3/8".
3. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
4. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

STRUCTURE NUMBER	STATION	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER INCHES (D)	INVERT OF RESTRICTOR	ELEVATION OF TOP OF PLATE
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11	100+82.5	TO BE ISSUED IN ADDENDUM PRIOR TO CONSTRUCTION			

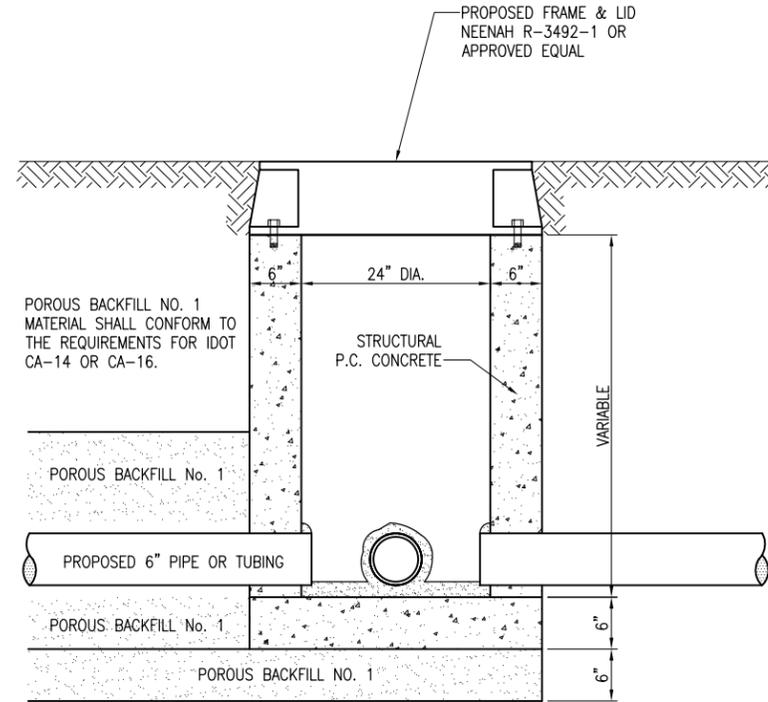
REVISION				
DATE				
ROCHELLE MUNICIPAL AIRPORT MAJOR THOMAS F. KORITZ FIELD ROCHELLE, OGLE COUNTY, ILLINOIS				
BLOCK GRANT: 3-17-0087-B15				
IL PROJ.: RPJ-4243				
Hanson Proj. No. 09A0141	12/03/12	MLH	12/03/12	MLH
Filename: C-503-DETL.dwg	NOT TO SCALE	DRAWN	01/18/2013	REVIEWED
Scale				
Date				
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EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT		MANHOLE WITH RESTRICTOR PLATE DETAIL		
21				
21 of 77 sheets				



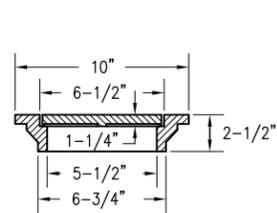
INSPECTION HOLE
"NOT TO SCALE"

INSPECTION HOLE NOTES

1. DIAMETER OF PIPE AS SPECIFIED.
2. 1/2" CHAMFER TO BE USED ON ALL EXPOSED EDGES OF INSPECTION HOLES.
3. THE CONCRETE SHALL BE STRUCTURAL PORTLAND CEMENT CONCRETE (NON-REINFORCED).
4. THE INSPECTION FRAME AND LID SHALL BE EAST JORDAN 2790-6, NEENAH R-6013 OR DECTER 1810.
5. TOP OF INSPECTION HOLES SHALL BE 2" ABOVE FINISH GROUND LINE AT LOCATION SHOWN ON PLANS.

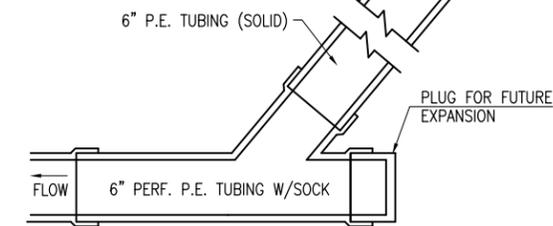
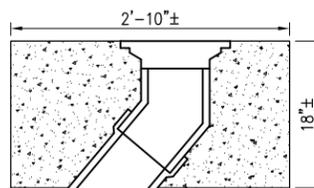
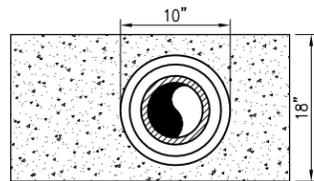


UNDERDRAIN COLLECTION STRUCTURE DETAIL
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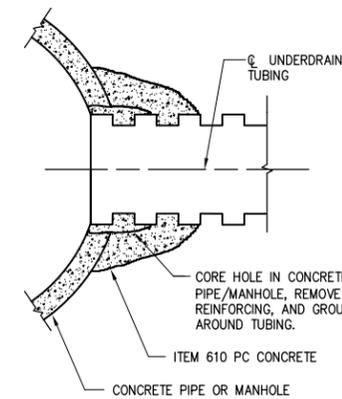


CAST IRON FRAME AND COVER

NEENAH R-6013, DECTER 1810,
EAST JORDAN 2790-6 OR
APPROVED EQUAL



UNDERDRAIN CLEANOUT TYPE B
NO SCALE



STORM SEWER CONCRETE COLLAR AND GROUT CONNECTION
NO SCALE

CLEANOUT NOTES

- DIAMETER OF PIPE AS SPECIFIED.
- TOP OF CLEANOUTS SHALL BE 2" ABOVE FINISH GROUND LINE AT LOCATION SHOWN ON PLANS.
- 1/2" CHAMFER TO BE USED ON ALL EXPOSED EDGES OF CLEANOUTS.
- THE CONCRETE SHALL BE STRUCTURAL PORTLAND CEMENT CONCRETE (NON- REINFORCED) IN ACCORDANCE WITH ITEM 610.

REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

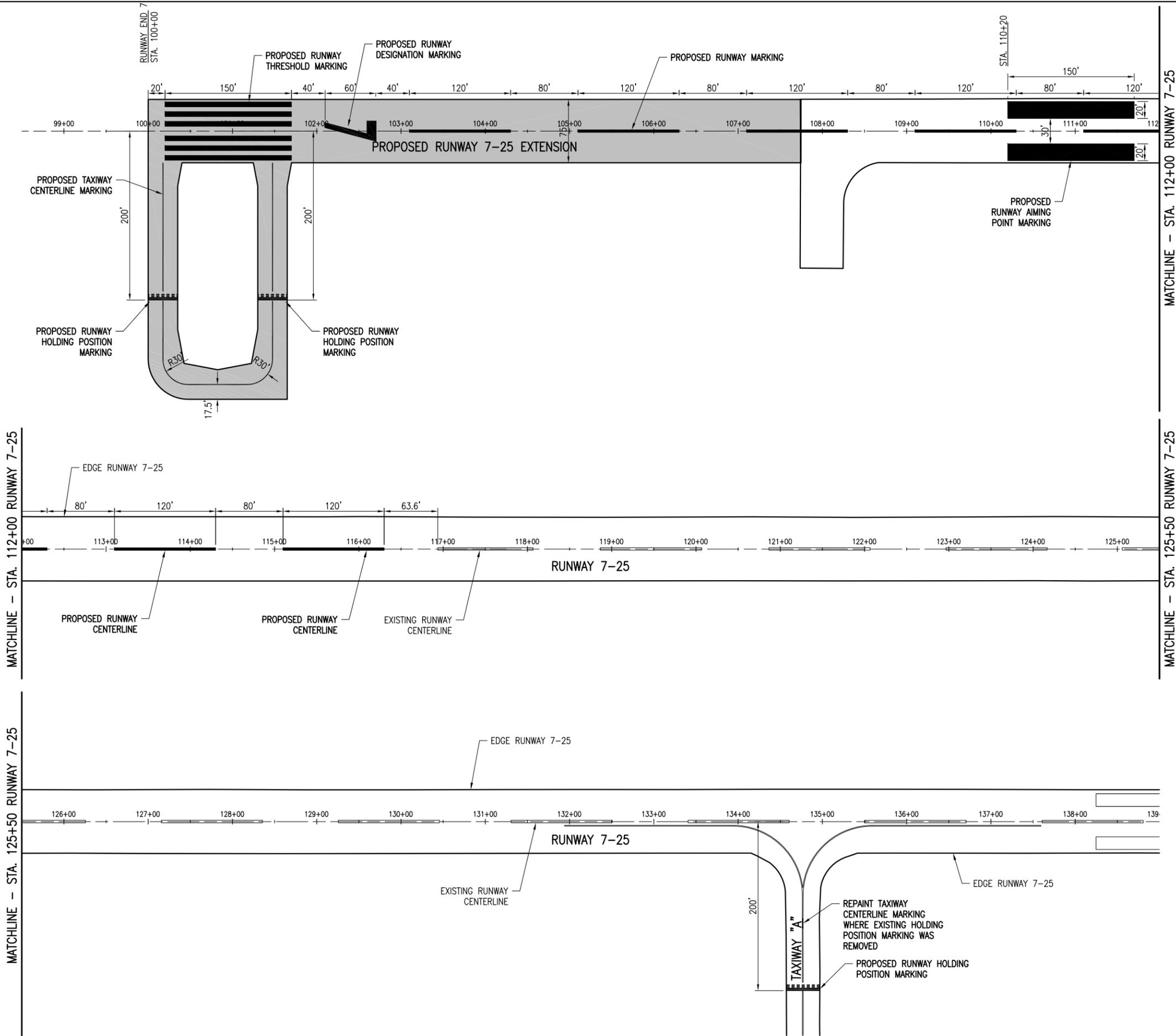
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Date 01/18/2013	REVIEWED KES 1/11/13

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1525 John W. Brown St.
Springfield, Illinois 62703-2886

EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

UNDERDRAIN DETAILS

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MATCHLINE - STA. 112+00 RUNWAY 7-25

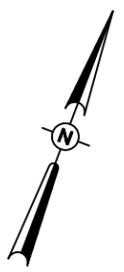
MATCHLINE - STA. 125+50 RUNWAY 7-25

MATCHLINE - STA. 112+00 RUNWAY 7-25

MATCHLINE - STA. 125+50 RUNWAY 7-25

LEGEND

- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- PROPOSED MARKING
- EXISTING MARKING



0' 25' 50' 100'
 HALF SIZE SCALE: 1" = 100'
 FULL SIZE SCALE: 1" = 50'

RC005

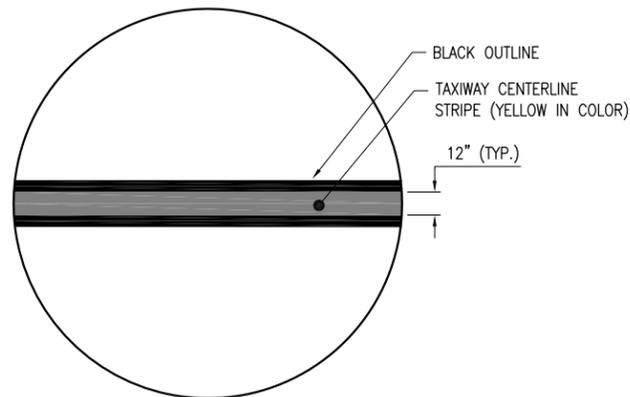
REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

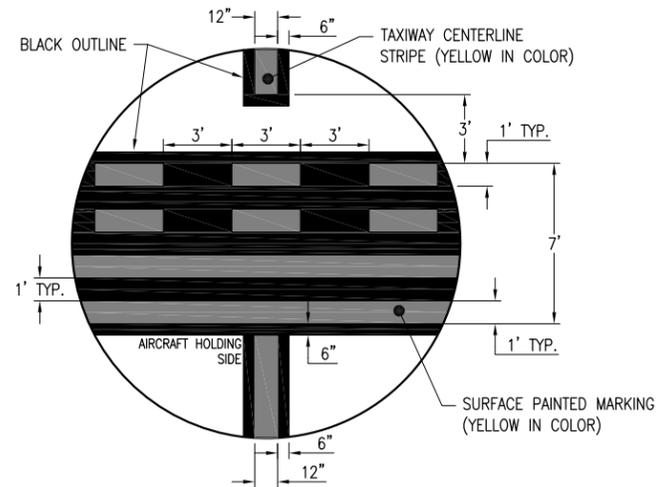
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Date 01/18/2013	
LAYOUT	DAW
DRAWN	TRR
REVIEWED	KBS

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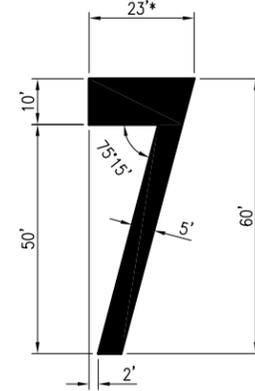
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 A LENGTH OF 5,000 FT
 MARKING PLAN



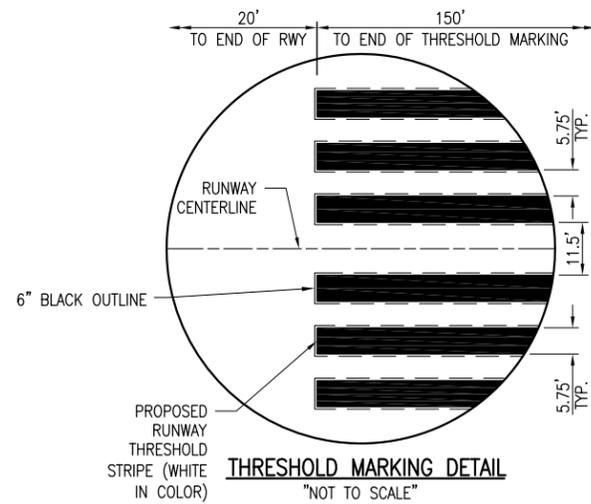
TAXIWAY CENTERLINE DETAIL
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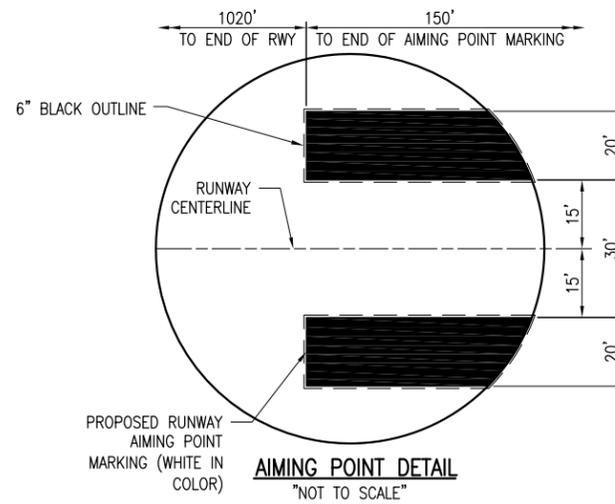
RUNWAY HOLDING POSITION DETAIL
"NOT TO SCALE"



RUNWAY 7 DESIGNATION MARKING
"NOT TO SCALE"
*CENTERED ON RUNWAY CENTERLINE



THRESHOLD MARKING DETAIL
"NOT TO SCALE"



AIMING POINT DETAIL
"NOT TO SCALE"

PAVEMENT MARKING NOTES

1. TYPE B GLASS BEADS SHALL BE REQUIRED FOR ALL YELLOW PERMANENT PAINT MARKINGS. GLASS BEADS ARE NOT REQUIRED FOR FOR TEMPORARY MARKINGS OR BLACK PAINT. REFER TO SPECIFICATION ITEM 620 FOR ADDITIONAL INFORMATION.
2. PAINT SHALL MEET REQUIREMENTS OF TECHNICAL SPECIFICATION ITEM 620, WATERBORNE PAINT.
3. ALL EXISTING MARKINGS NOTED FOR REMOVAL SHALL BE COMPLETED USING HIGH PRESSURE WATER BLASTING OR METHOD APPROVED BY THE ENGINEER. PAINT REMOVAL BY GRINDING OR OTHER METHODS WHICH DAMAGE THE PAVEMENT SURFACES SHALL NOT BE USED. THE MARKINGS SHALL NOT BE PAINTED OVER WITH BLACK PAINT.
4. IMMEDIATELY PRIOR TO THE APPLICATION OF PAINT, ALL SURFACES SHALL BE DRY AND FREE FROM DIRT, GREASE, OIL, LAITANCE, OR OTHER FOREIGN MATERIAL WHICH WOULD REDUCE THE BOND BETWEEN THE PAINT AND THE PAVEMENT. THIS SHALL INCLUDE PAINTED AREAS ON THE EXISTING PAVEMENTS. REFER TO SPECIFICATION ITEM 620-3.3 FOR ADDITIONAL INFORMATION.
5. EXISTING PAVEMENT MARKINGS OUTSIDE THE LIMITS OF THE MARKINGS SHOWN ON THESE PLANS WHICH ARE REMOVED OR WORN DUE TO CONSTRUCTION ACTIVITY SHALL BE REPAINTED. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR THIS WORK.

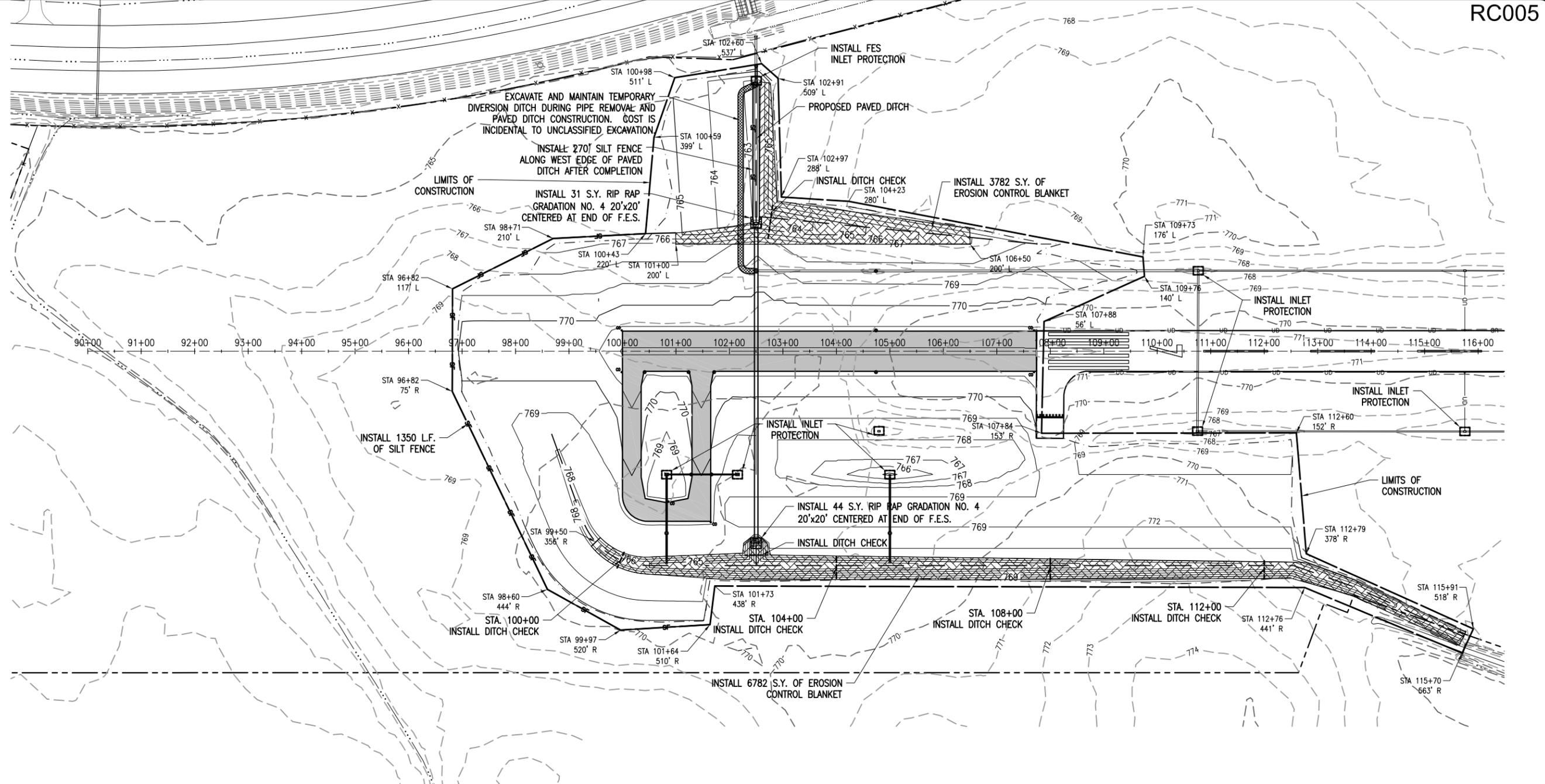
REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS
IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

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Date 01/18/2013	
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DRAWN	TRR
REVIEWED	KBS



EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT
MARKING DETAILS

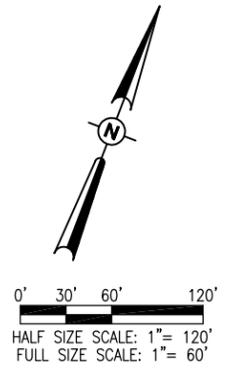


STORM WATER POLLUTION PREVENTION NOTES

1. THE CONTRACTOR SHALL IMPLEMENT ALL PROVISIONS OF THE CONTRACT DOCUMENTS TO ASSURE THAT STORM WATER POLLUTION PREVENTION ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY MANNER. SEDIMENTATION MUST NOT BE TRANSPORTED OFF THE CONSTRUCTION SITE. PERMANENT DRAINAGE FEATURES AND VEGETATIVE MEASURES SHALL BE PROVIDED AS SOON AS POSSIBLE.
2. THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT AND MAINTAIN STORM WATER POLLUTION PREVENTION PRACTICES AND MEASURES PRIOR TO THE STRIPPING OF EXISTING VEGETATION WHERE EVER POSSIBLE AND AS SOON AS CONSTRUCTION PERMITS IN OTHER AREAS. POLLUTION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, INCLUDING THESE CONSTRUCTION PLANS, AND WITH STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, CURRENT ISSUE. THE CONTRACTOR SHALL ADJUST HIS OPERATIONS AND IMPLEMENT POLLUTION CONTROL MEASURES SO THAT NO RUNOFF FROM STRIPPED AREAS WILL LEAVE THE CONSTRUCTION SITE OTHER THAN THROUGH SEDIMENT TRAPS OR OTHER SUITABLE CONTROL MEASURES.
3. POLLUTION CONTROL ITEMS SHALL BE PROVIDED AS NOTED ON THE STORM WATER POLLUTION PREVENTION PLAN AND IN THE STORM WATER POLLUTION PREVENTION DETAILS AND AS DIRECTED BY THE ENGINEER. THE LIMITS OF SUCH MEASURES SHALL BE STAKED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SUCH LIMITS MAY BE ADJUSTED BY THE ENGINEER TO ACCOUNT FOR ACTUAL SITE CONDITIONS EXPERIENCED DURING CONSTRUCTION. ADDITIONAL COMPENSATION FOR MEASURES EXCEEDING THE PLAN QUANTITIES WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH ITEM.
4. THE CONTRACTOR IS TO MAINTAIN AND ADJUST, REPAIR OR REPLACE ALL POLLUTION PREVENTION MEASURES AS REQUIRED OR AS DIRECTED BY THE ENGINEER UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. MAINTENANCE OF STORM WATER POLLUTION CONTROL MEASURES IS TO BE PROVIDED AT NO ADDITIONAL COST TO THE CONTRACT.
5. AN ADDITIONAL 1000 LINEAR FEET OF SILT FENCE HAS BEEN INCLUDED IN THE SUMMARY OF QUANTITIES FOR PLACEMENT AROUND THE PERMANENT STOCKPILES, AS DIRECTED BY THE RESIDENT ENGINEER. ADDITIONAL SEEDING AND MULCHING QUANTITIES HAVE ALSO BEEN INCLUDED.
6. CONSTRUCTION LIMITS SHOWN SHALL ALSO CONSTITUTE MAXIMUM PAY LIMITS FOR SEEDING AND MULCHING, WITH THE EXCEPTION OF THE PERMANENT STOCKPILE AREA.

LEGEND

	PROPOSED PAVEMENT
	AIRPORT PROPERTY LINE
	GRADING LIMITS
	LIMITS OF CONSTRUCTION
	PROPOSED RIPRAP
	PROPOSED EROSION CONTROL BLANKET
	PROPOSED SILT FENCE
	INLET/END SECTION PROTECTION
	DITCH CHECK



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REVISION	DATE

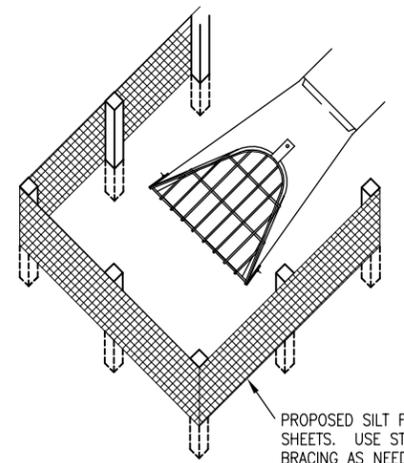
ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 IL PROJ.: RPJ-4243
 BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	12/14/12
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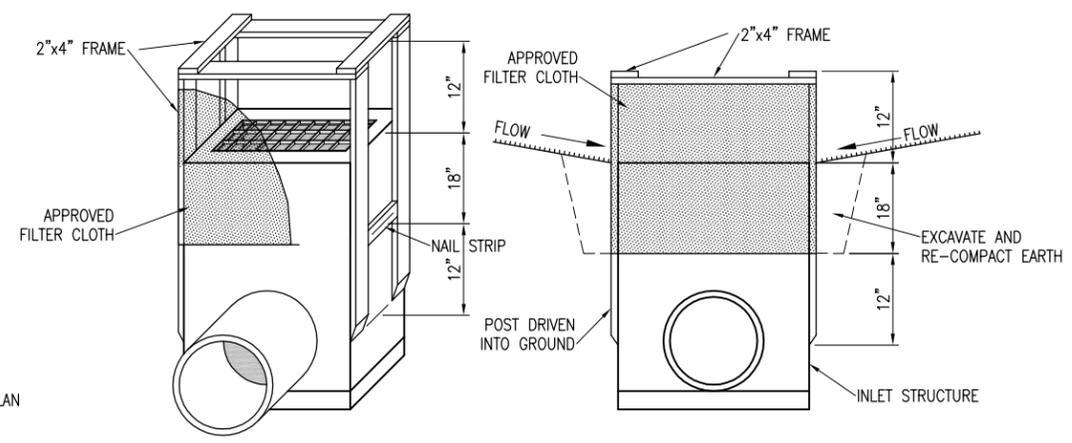
EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT

STORMWATER POLLUTION
 PREVENTION PLAN

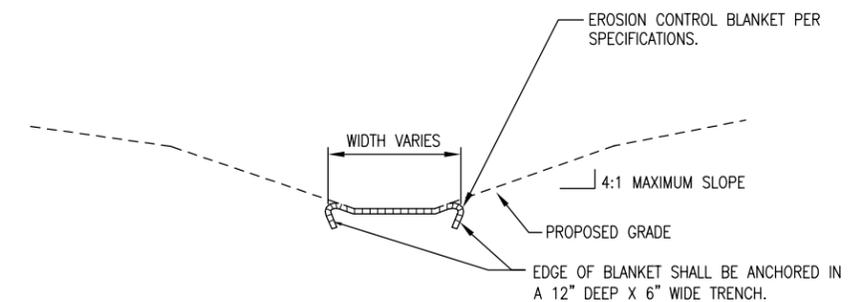


INLET PROTECTION AT FLARED END SECTIONS (FES)
NO SCALE

PROPOSED SILT FENCE, LENGTH VARIES, SEE PLAN SHEETS. USE STRAW BALES WITH HORIZONTAL BRACING AS NEEDED OVER PAVED DITCH.

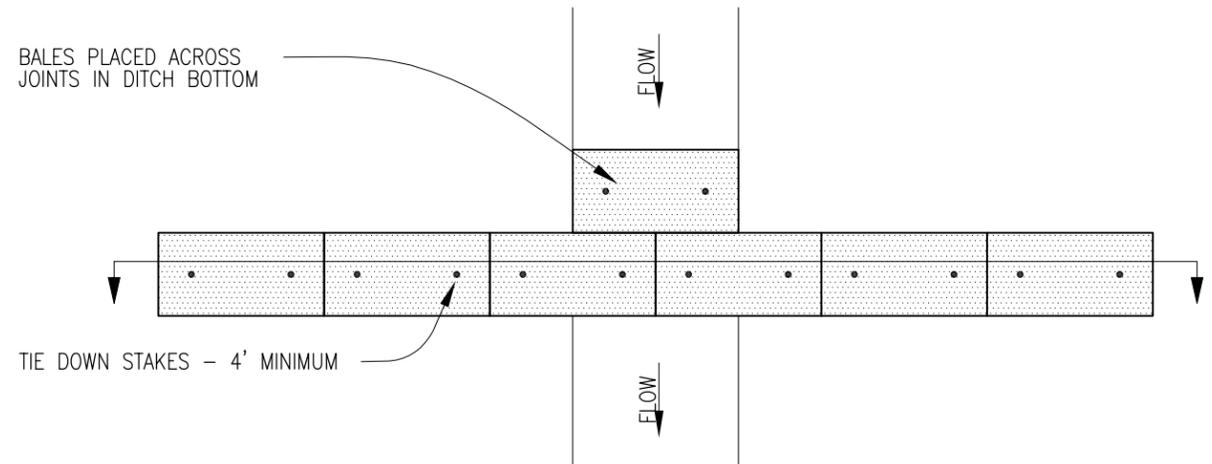


INLET PROTECTION DETAIL
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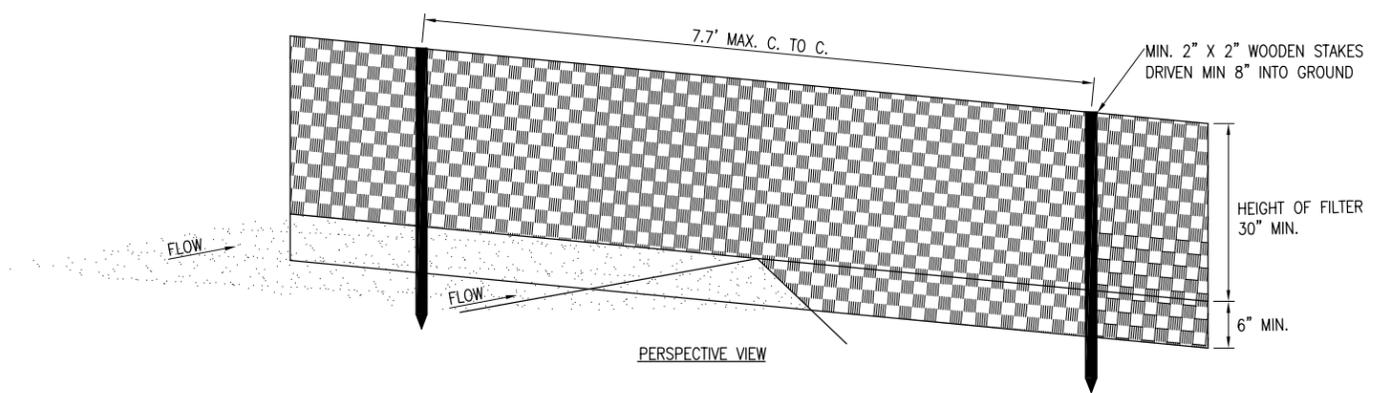


NOTE: ALL EROSION CONTROL BLANKETS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS BASED ON THE PROPOSED TYPE AND USE.

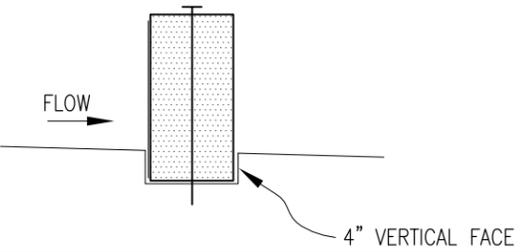
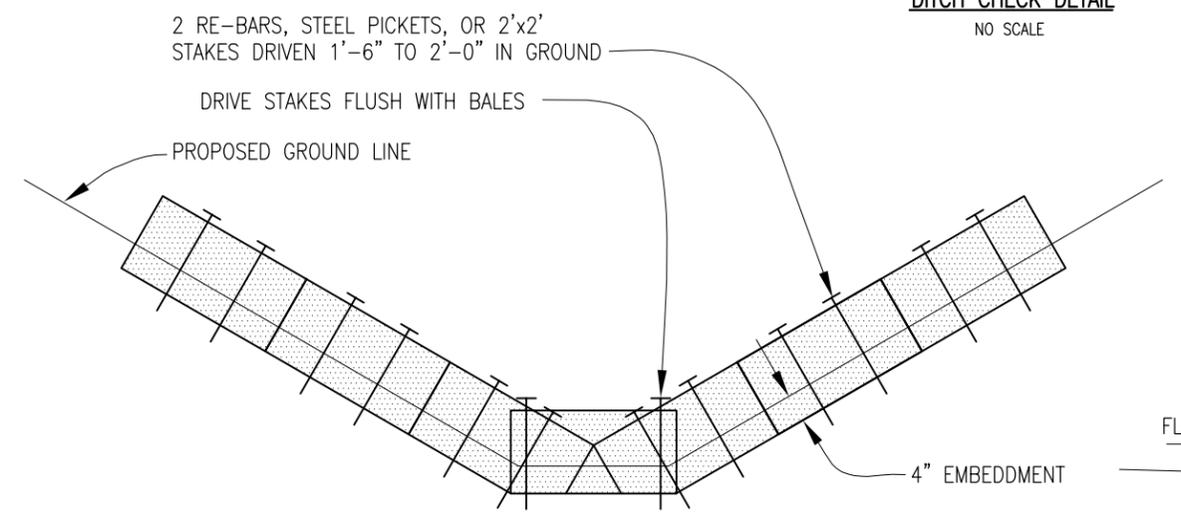
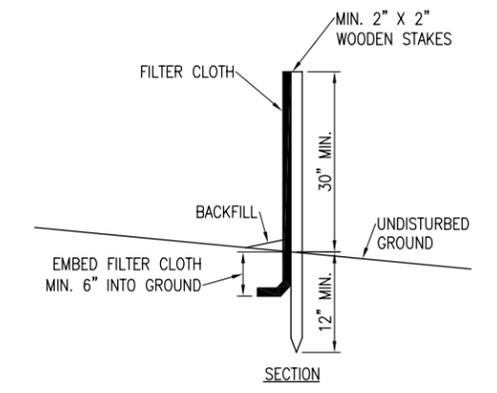
TYPICAL EROSION CONTROL BLANKET
NO SCALE



DITCH CHECK DETAIL
NO SCALE



SILT FENCE DETAIL
NO SCALE



REVISION	DATE

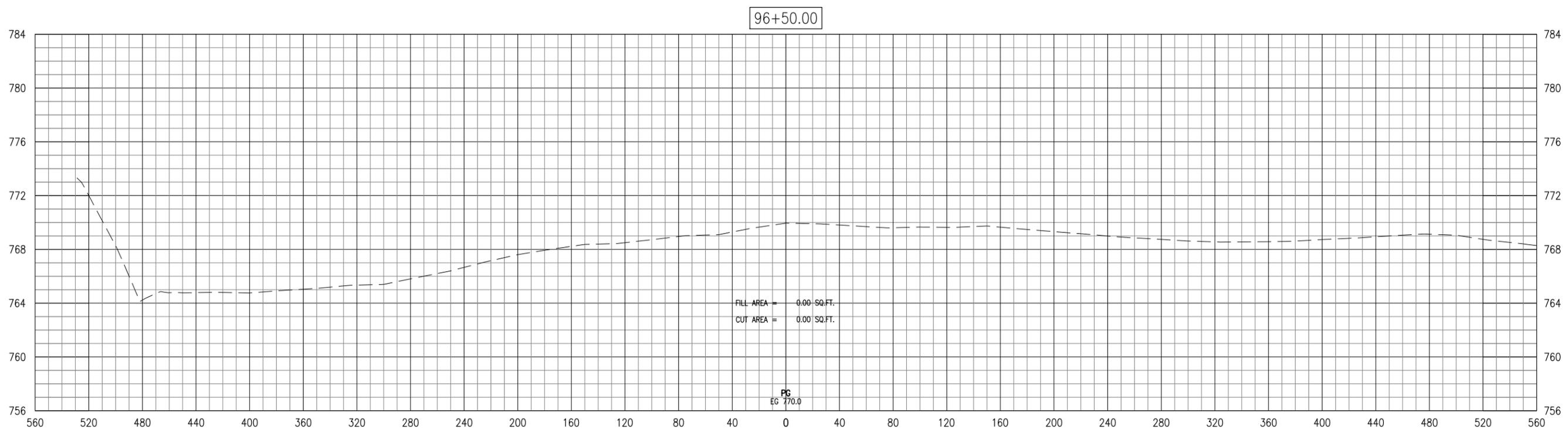
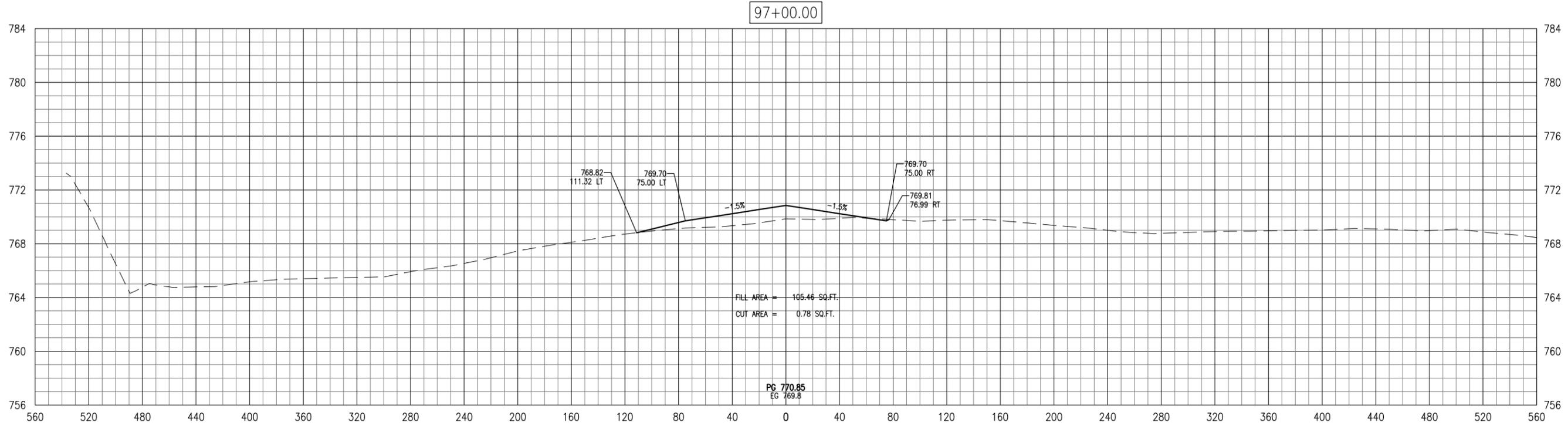
ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS
BLOCK GRANT: 3-17-0087-B15
IL PROJ.: RPJ-4243

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	KES
	1/11/13



EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT
STORMWATER POLLUTION
PREVENTION PLAN DETAILS

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REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

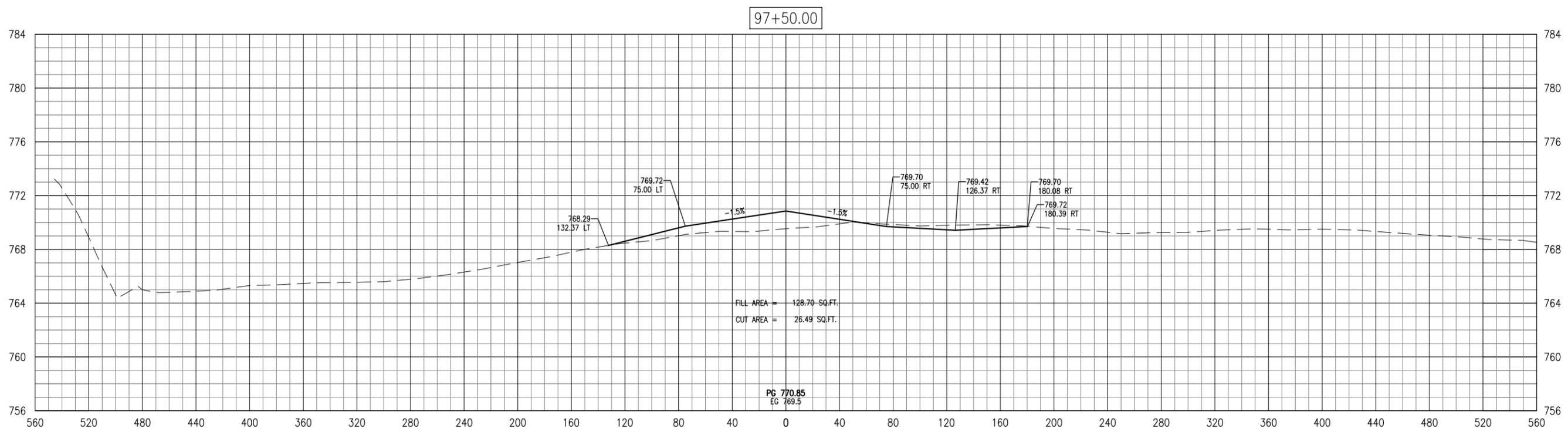
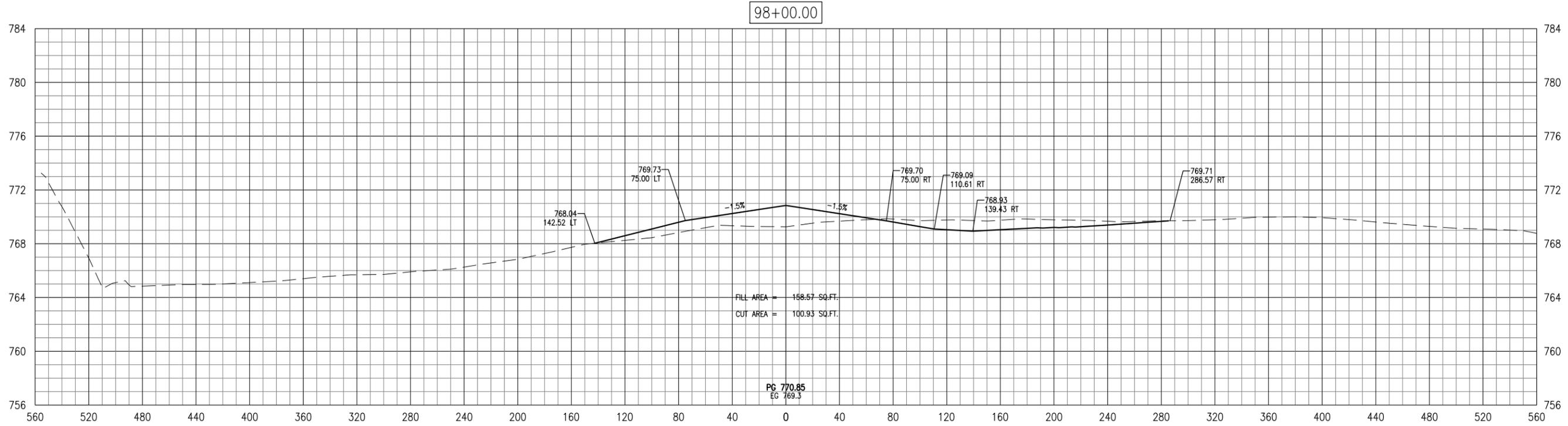
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Date 01/18/2013	REVIEWED
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	REVIEWED
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EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

RUNWAY 7-25 CROSS SECTIONS
STA. 96+50 TO 97+00

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REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

IL PROJ.: RPJ-4243
BLOCK GRANT: 3-17-0087-B15

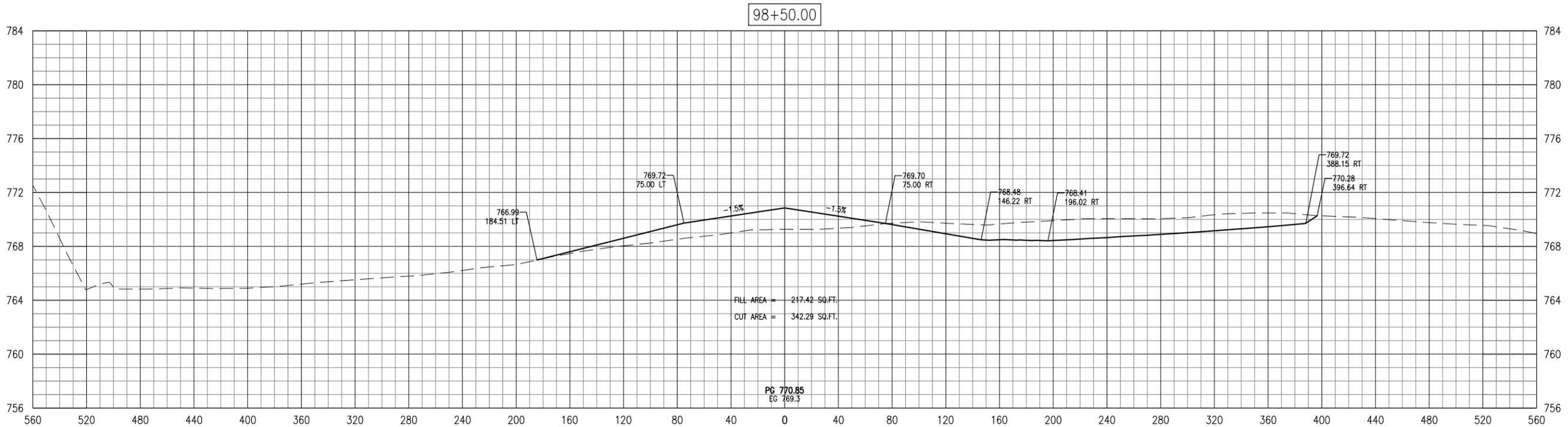
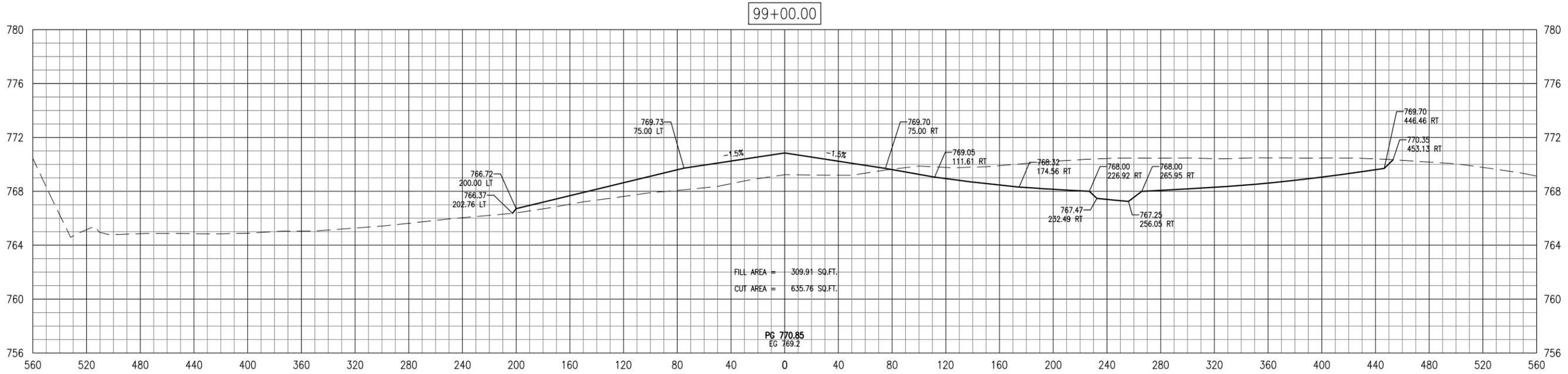
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Date 01/18/2013	REVIEWED KBS



EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

RUNWAY 7-25 CROSS SECTIONS
STA. 97+50 TO 98+00

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REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

IL PROJ.: RPJ-4243
BLOCK GRANT: 3-17-0087-B15

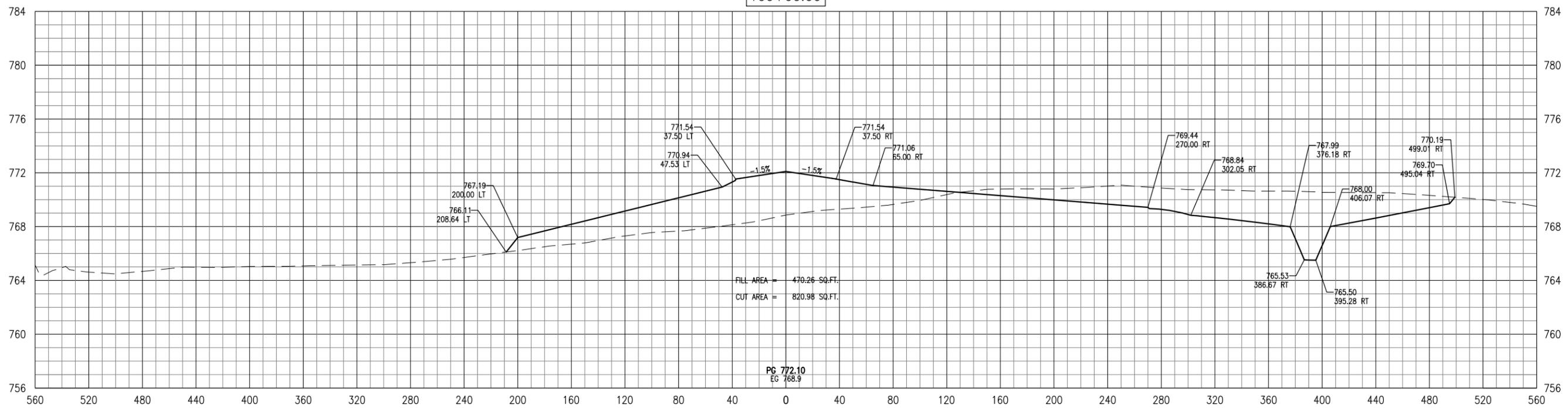
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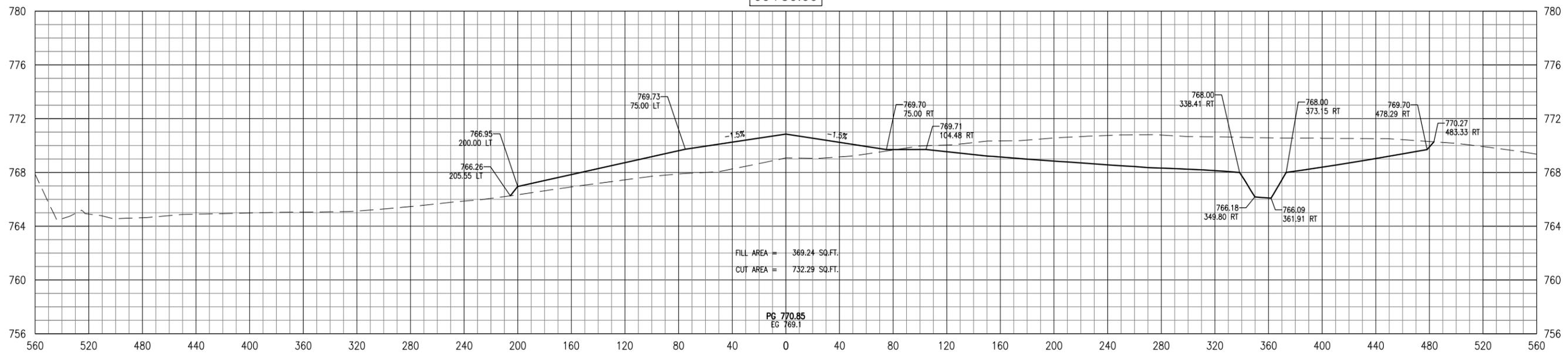
EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

RUNWAY 7-25 CROSS SECTIONS
STA. 98+50 TO 99+00

BACK
100+00.00



99+50.00



REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

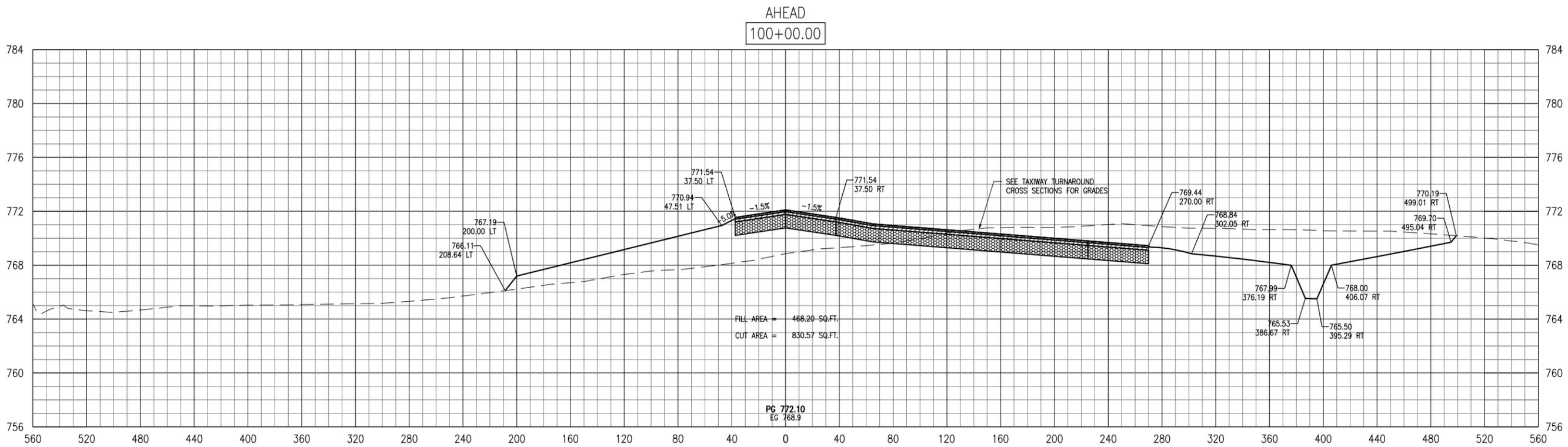
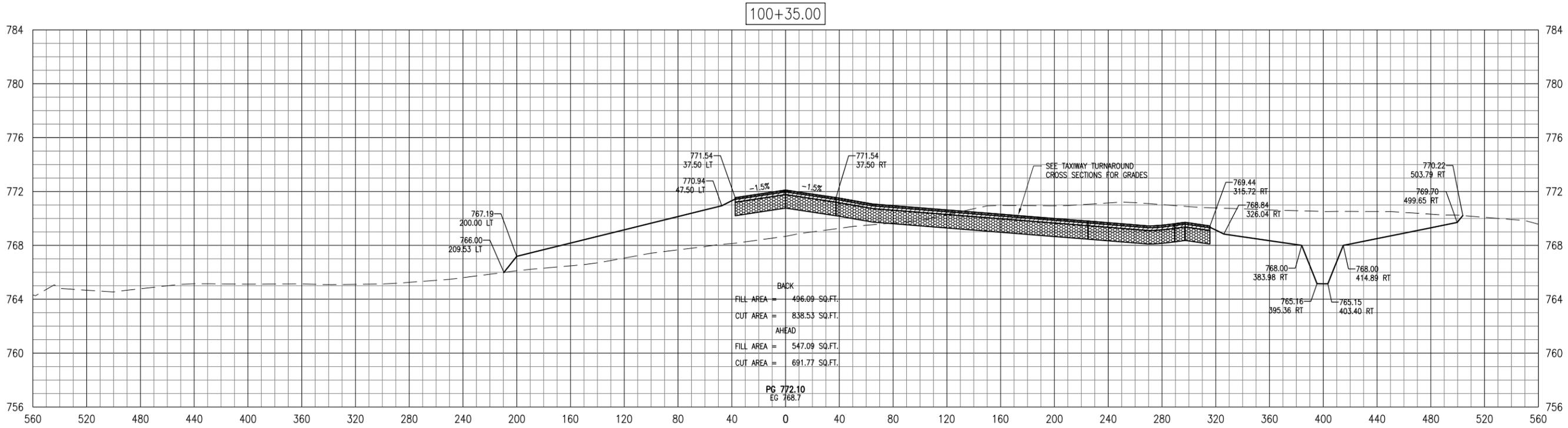
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Date 01/18/2013	REVIEWED



EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

RUNWAY 7-25 CROSS SECTIONS
STA. 99+50 TO 100+00

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REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS

IL PROJ.: RPJ-4243
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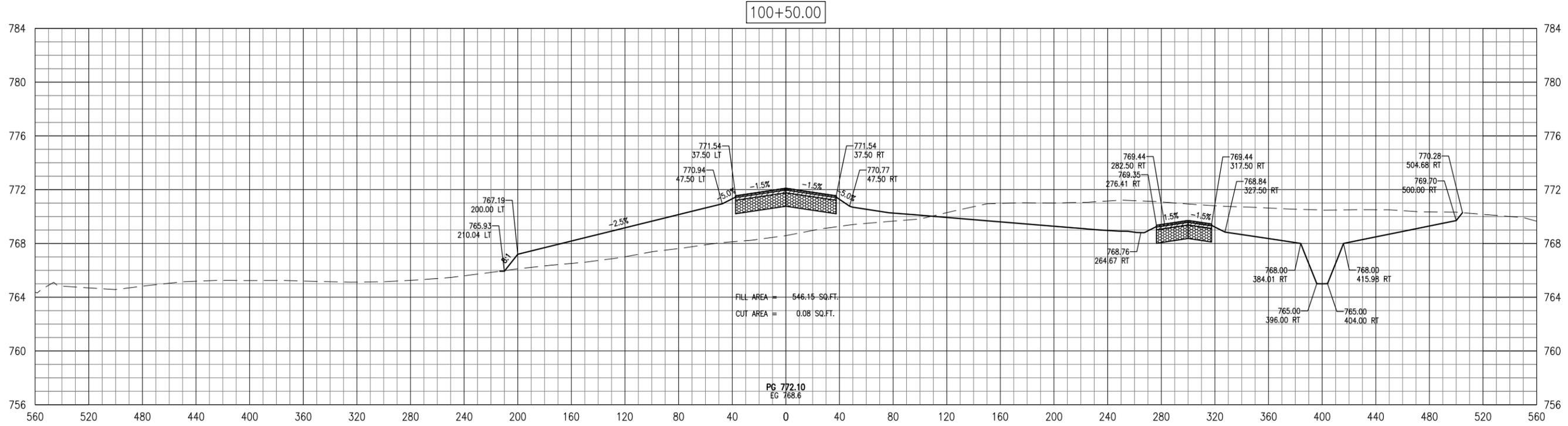
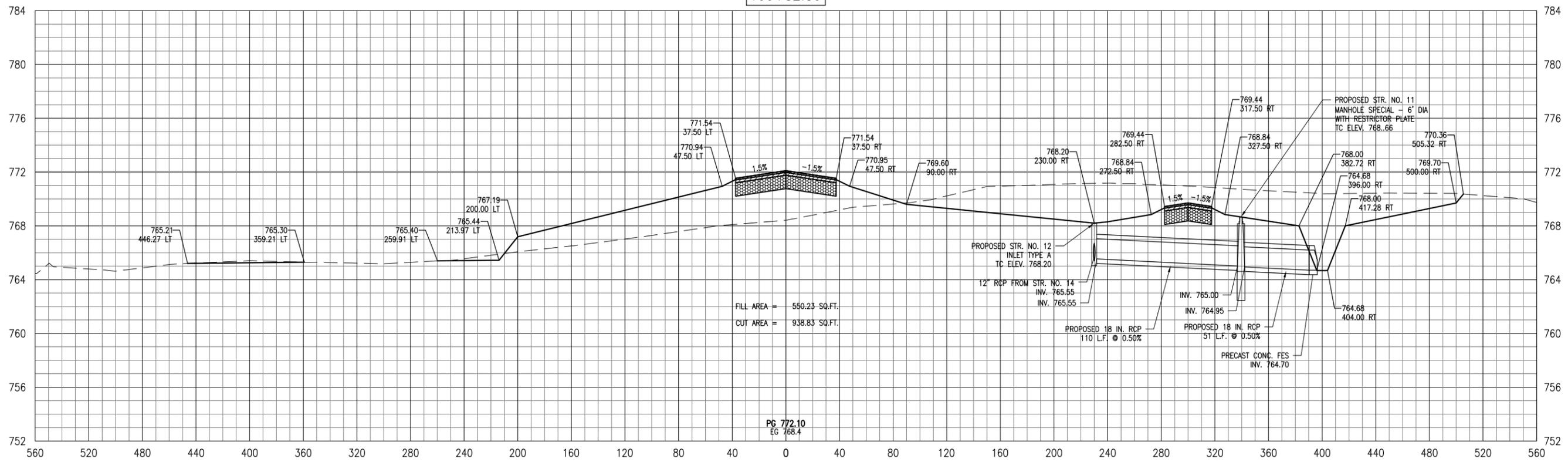
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Date 01/18/2013	KBS
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EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT

RUNWAY 7-25 CROSS SECTIONS
 STA. 100+00 TO 100+35

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REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

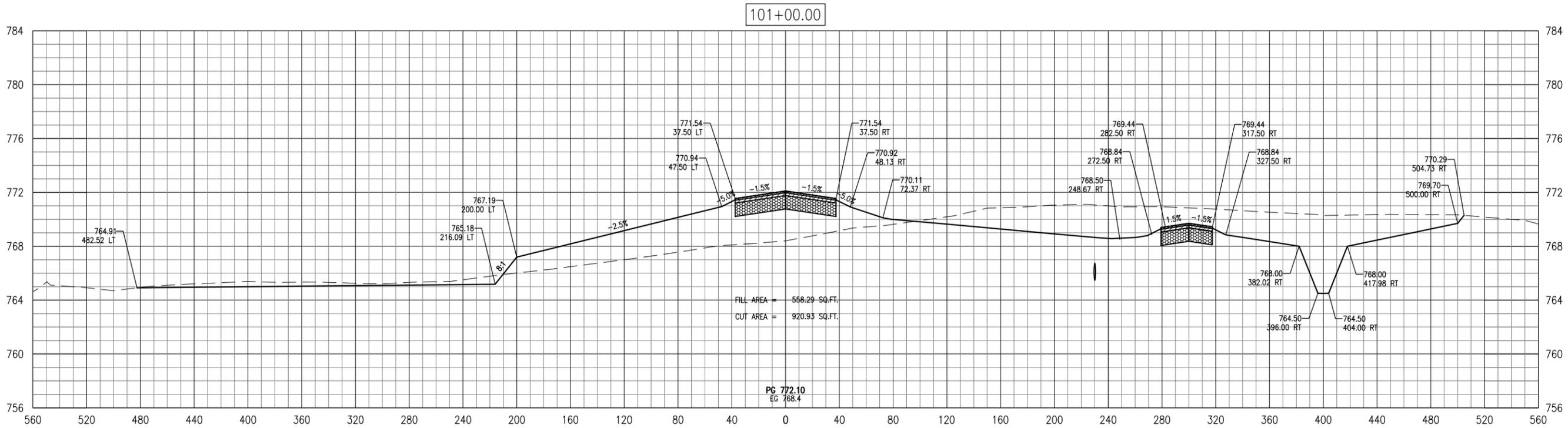
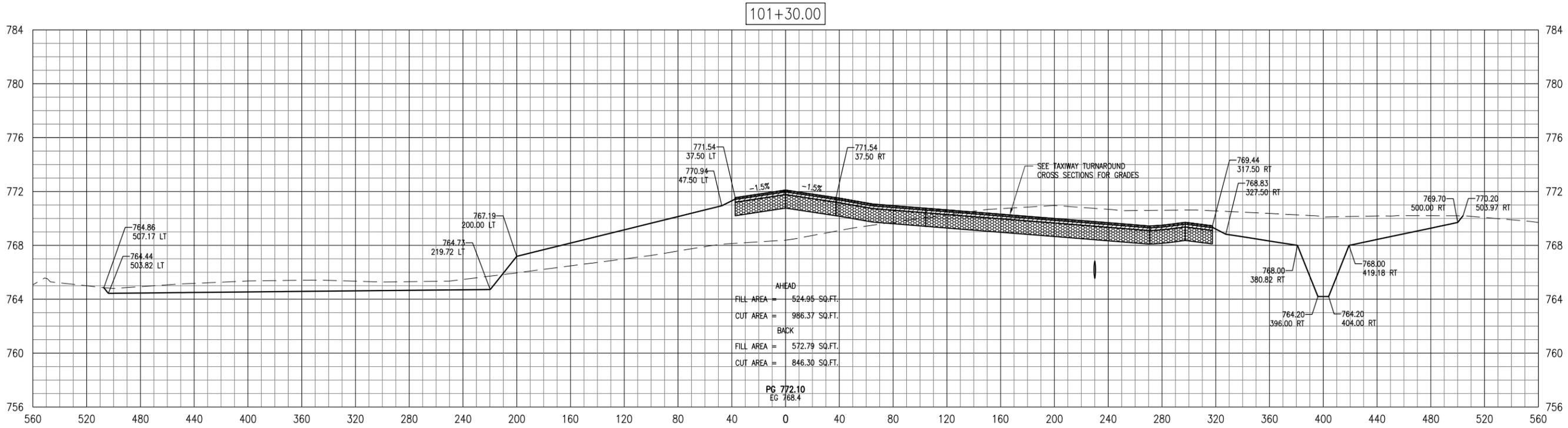
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Date 01/18/2013	KBS
LAYOUT	REVIEWED
DRAWN	



EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

RUNWAY 7-25 CROSS SECTIONS
STA. 100+50 TO 100+82.50

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REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS

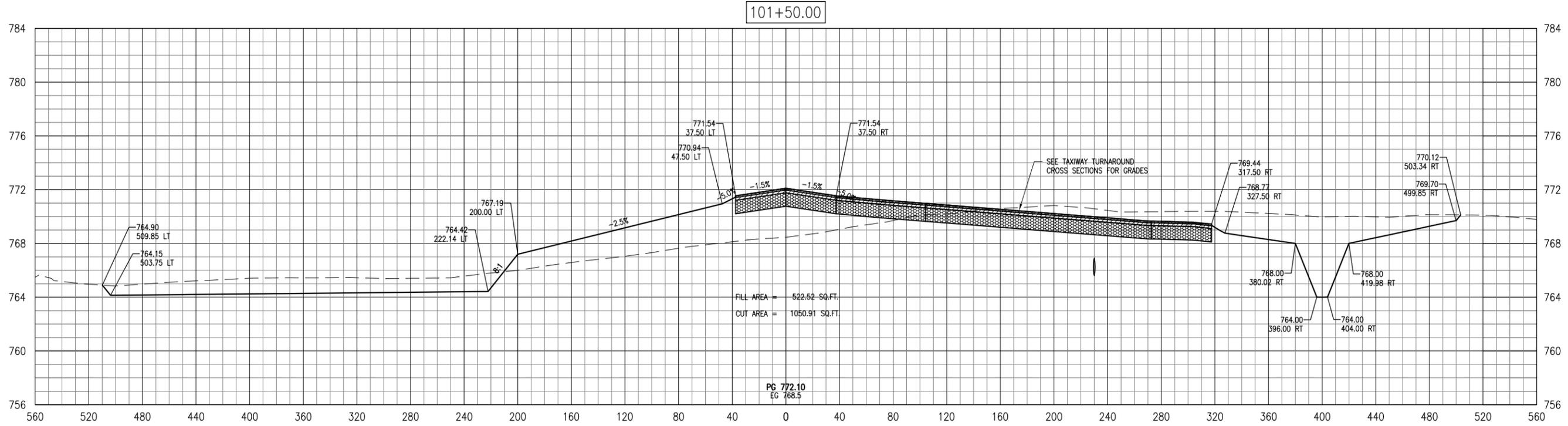
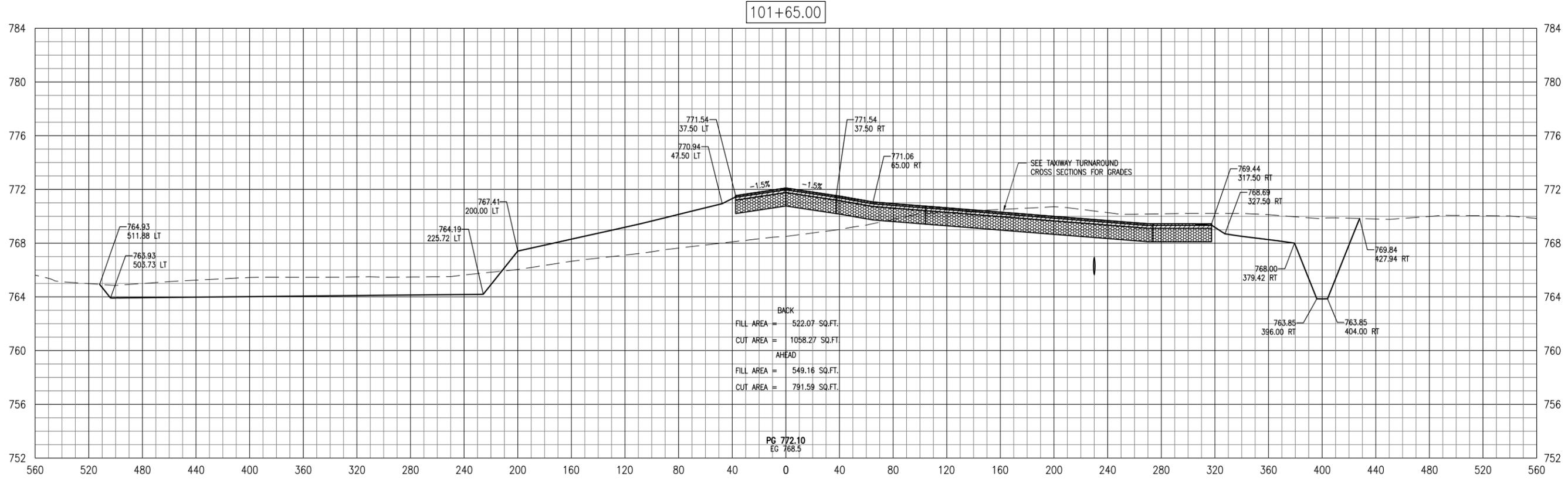
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Date: 01/18/2013	

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 1525 So. Main Street
 Springfield, Illinois 62703-2886

EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT

RUNWAY 7-25 CROSS SECTIONS
 STA. 101+00 TO 101+30



JAN 21, 2013 5:28 PM SCHMED1296
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REVISION	DATE

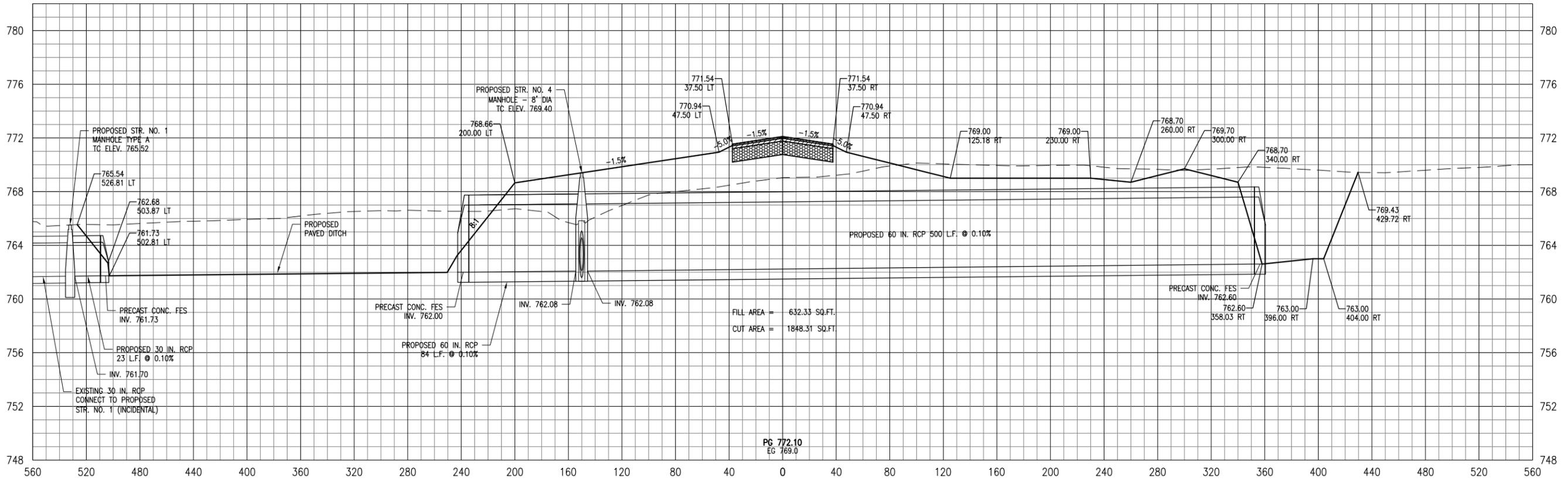
ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	12/28/12
Filename C-301-XS.dwg	KBS
Scale 1" = 40'H 1" = 4'V	MJH
Date 01/18/2013	KBS
LAYOUT	REVIEWED
DRAWN	

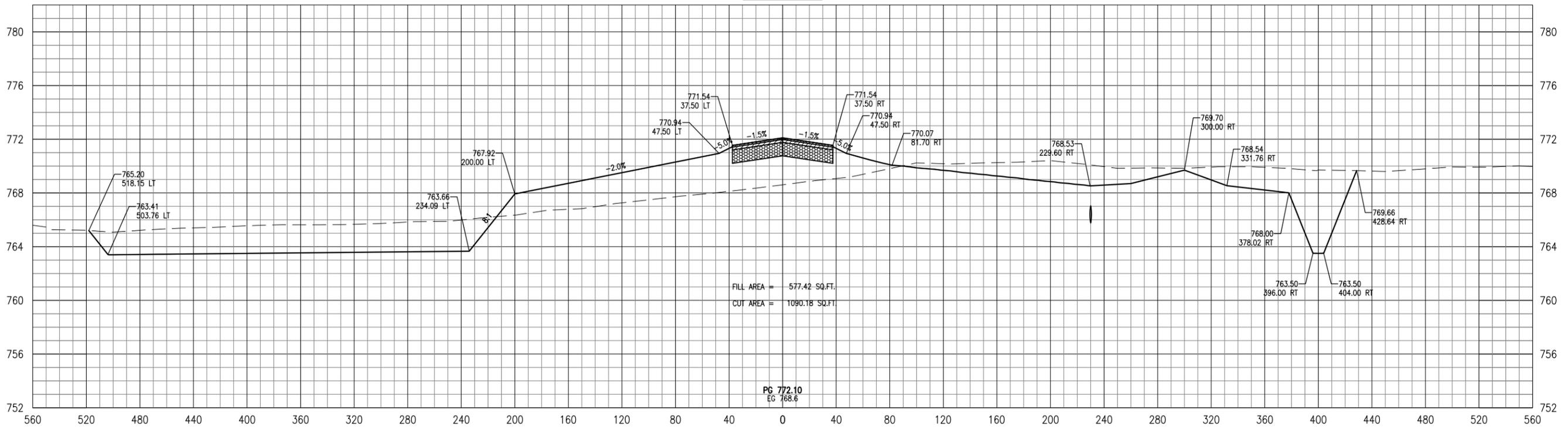
HANSON
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 Springfield, Illinois 62703-2886

EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT
 RUNWAY 7-25 CROSS SECTIONS
 STA. 101+50 TO 101+65

102+50.00



102+00.00



JAN 21, 2013 5:28 PM SCHWED1296
pw:\sps-svr306\hanson\dom\hanson_projects\Documents\09\Jobs\09A0141\CAD\Airport\Sheet\C-301-XS

REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

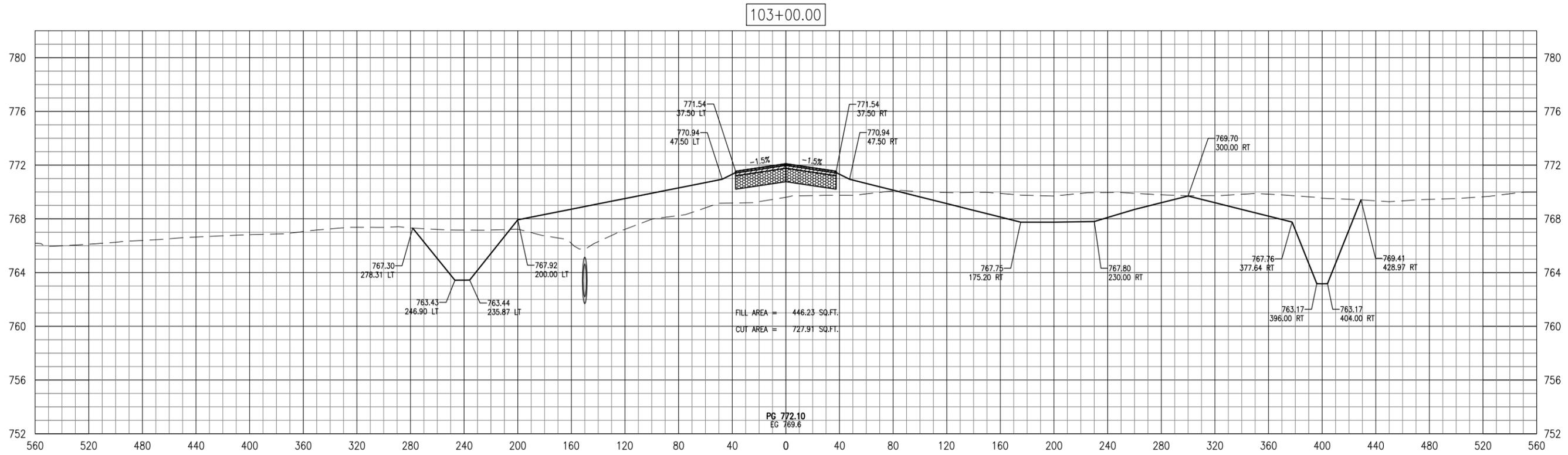
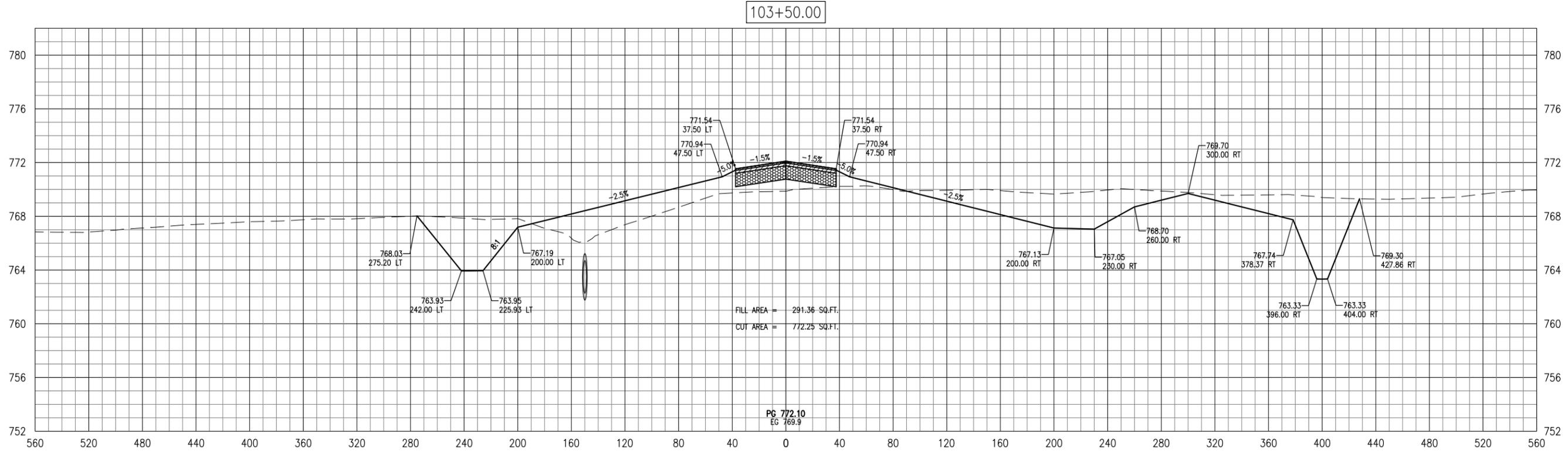
IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	12/28/12
Filename C-301-XS.dwg	KBS
Scale 1" = 40'H 1" = 4'V	MLH
Date 01/18/2013	KBS
LAYOUT	REVIEWED
DRAWN	



EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

RUNWAY 7-25 CROSS SECTIONS
STA. 102+00 TO 102+50



JAN 21, 2013 5:28 PM SCHWED1296
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REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

IL PROJ.: RPJ-4243
BLOCK GRANT: 3-17-0087-B15

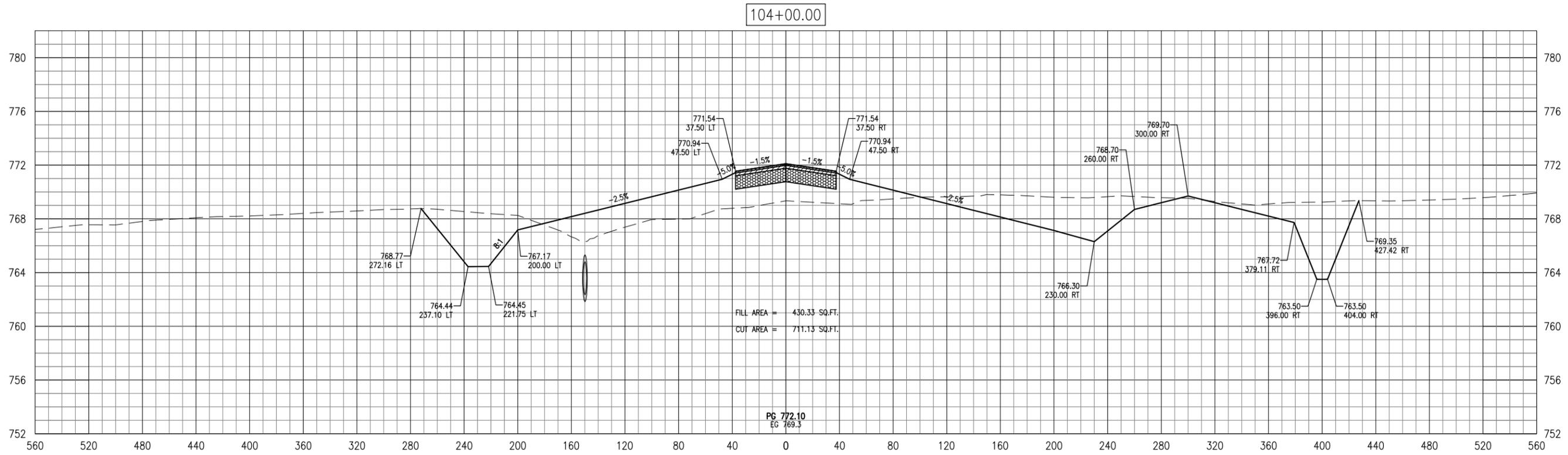
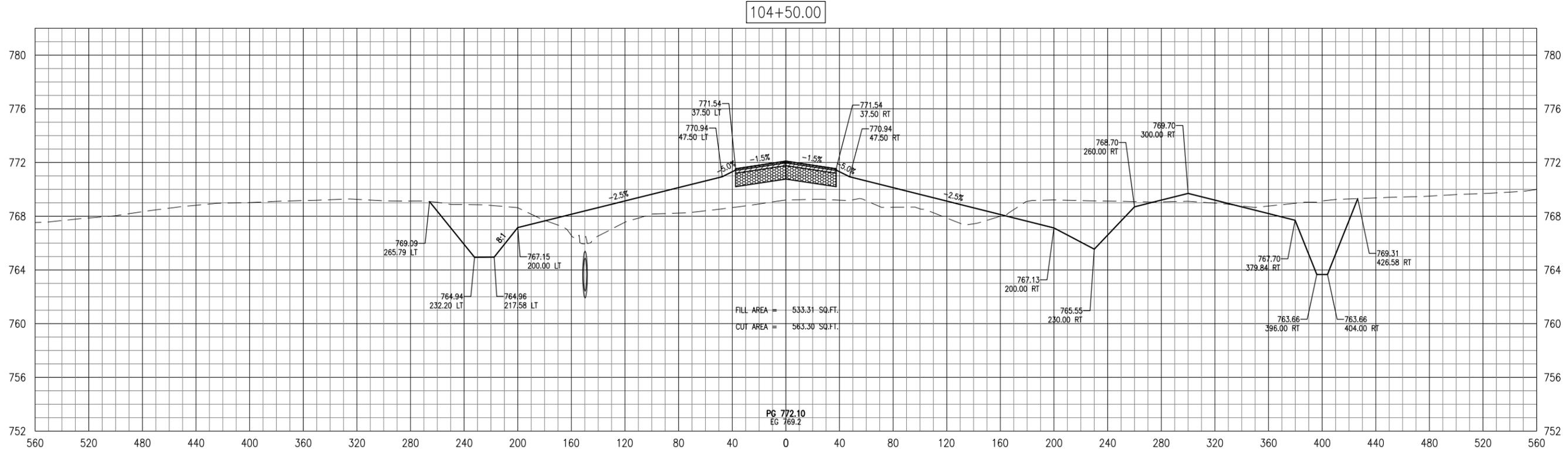
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REVIEWED	KBS 01/11/13

Hanson Proj. No. 09A0141
Filename: C-301-XS.dwg
Scale: 1" = 40'H, 1" = 4'V
Date: 01/18/2013



EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

RUNWAY 7-25 CROSS SECTIONS
STA. 103+00 TO 103+50



JAN 21, 2013 5:29 PM SCHWED1296
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REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

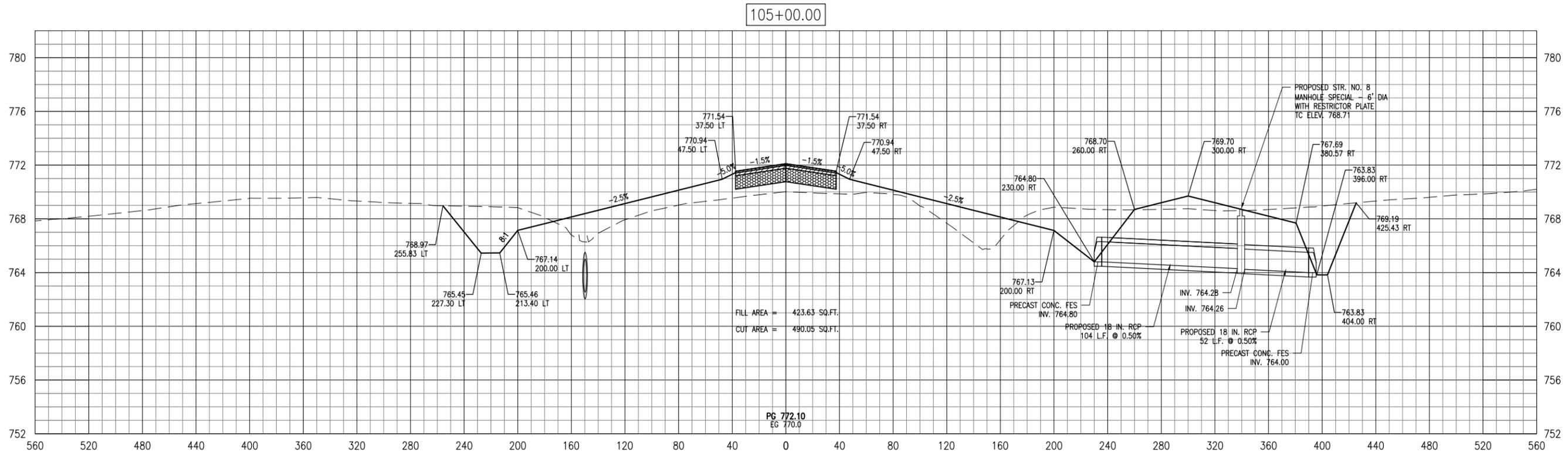
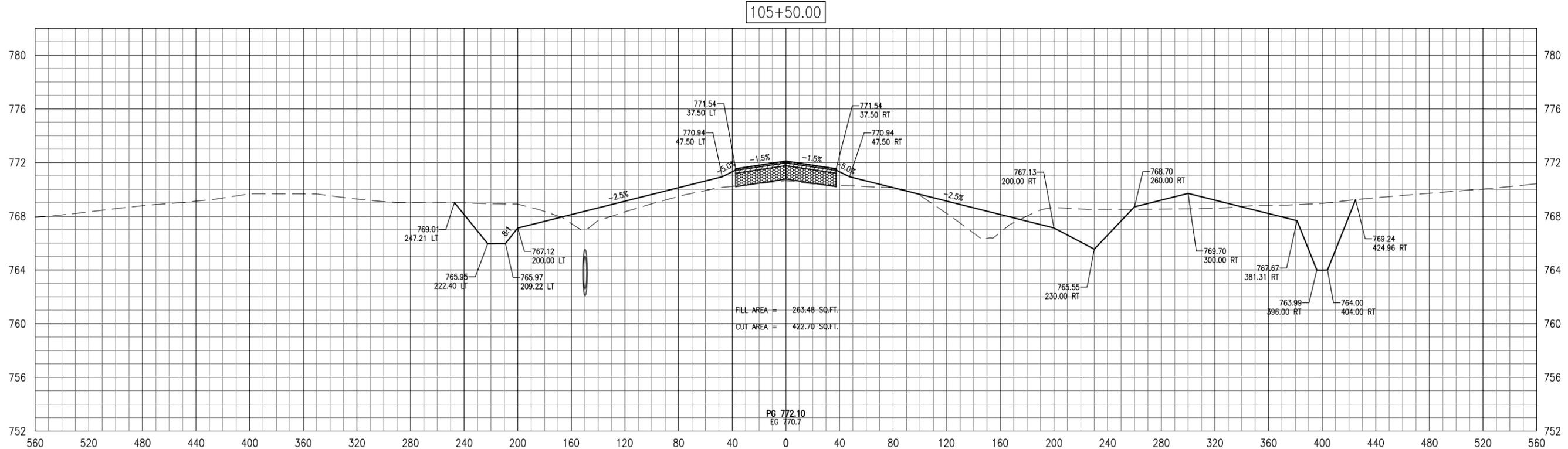
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BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	12/28/12
Filename C-301-XS.dwg	KBS
Scale 1" = 40'H 1" = 4'V	MLH
Date 01/18/2013	KBS
LAYOUT	REVIEWED
DRAWN	

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EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

RUNWAY 7-25 CROSS SECTIONS
STA. 104+00 TO 104+50



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REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

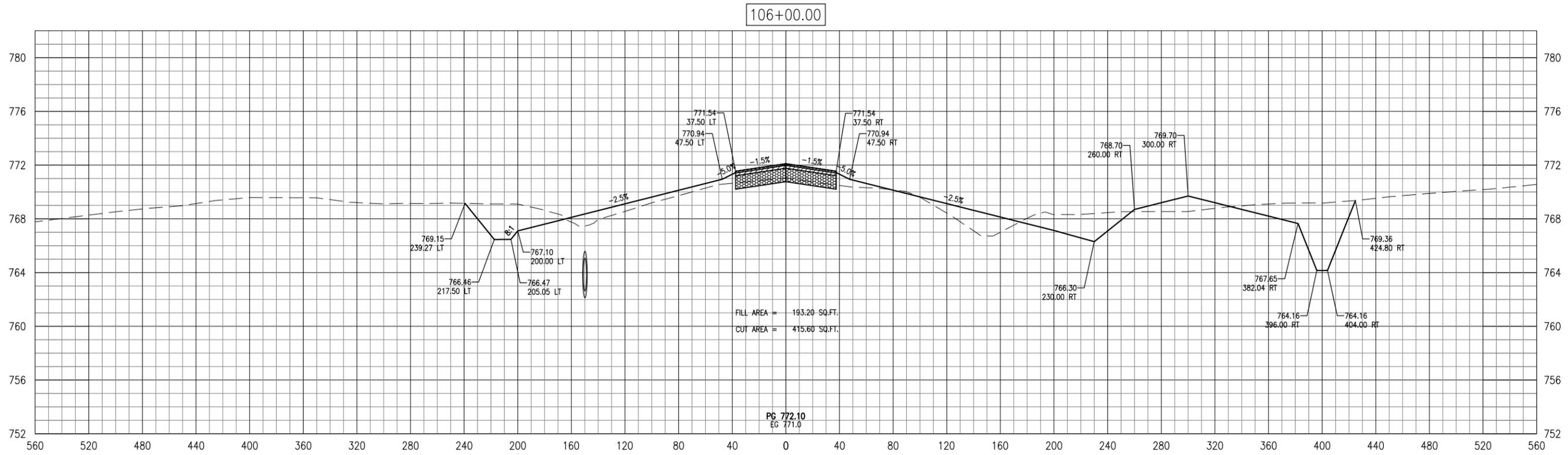
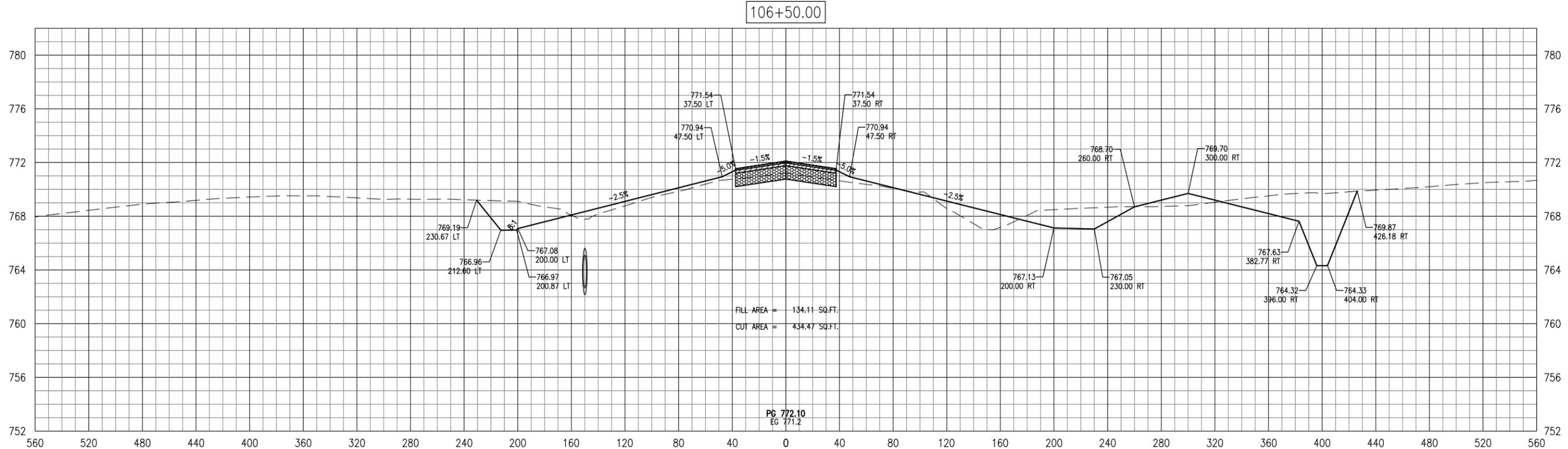
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Filename C-301-XS.dwg	KBS
Scale 1" = 40'H 1" = 4'V	MJH
Date 01/18/2013	KBS
LAYOUT	REVIEWED
DRAWN	

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EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

RUNWAY 7-25 CROSS SECTIONS
STA. 105+00 TO 105+50



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REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

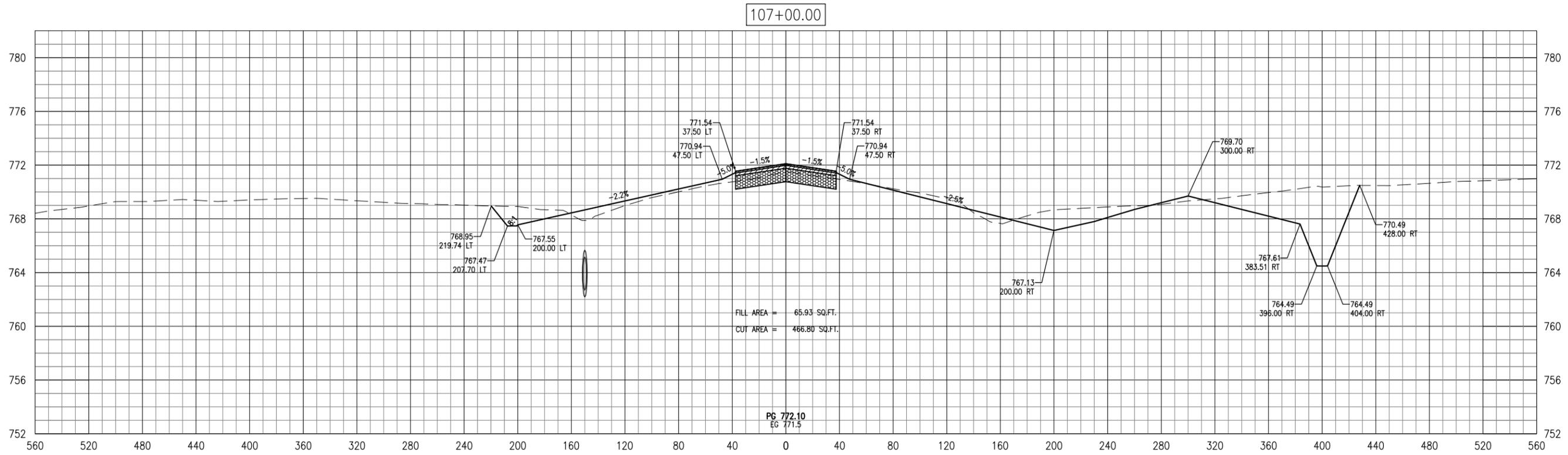
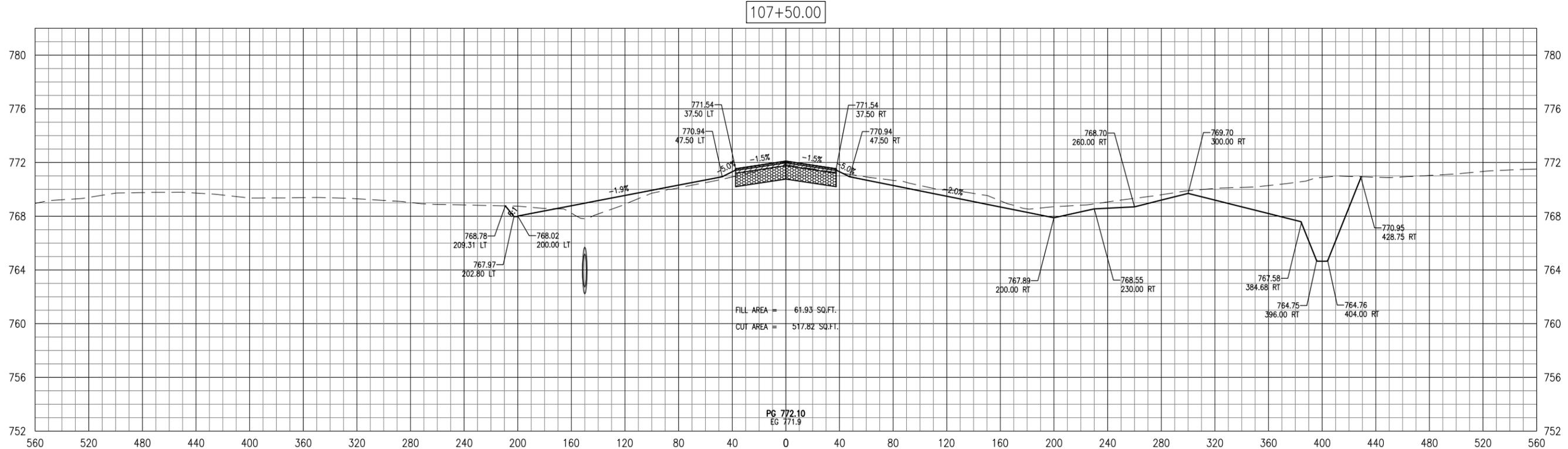
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BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	12/28/12
Filename C-301-XS.dwg	KBS
Scale 1" = 40'H, 1" = 4'V	MLH
Date 01/18/2013	KBS
LAYOUT	REVIEWED
DRAWN	

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EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

RUNWAY 7-25 CROSS SECTIONS
STA. 106+00 TO 106+50



REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	12/28/12
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Scale 1" = 40'H 1" = 4'V	MLH
Date 01/18/2013	KBS
LAYOUT	REVIEWED
DRAWN	

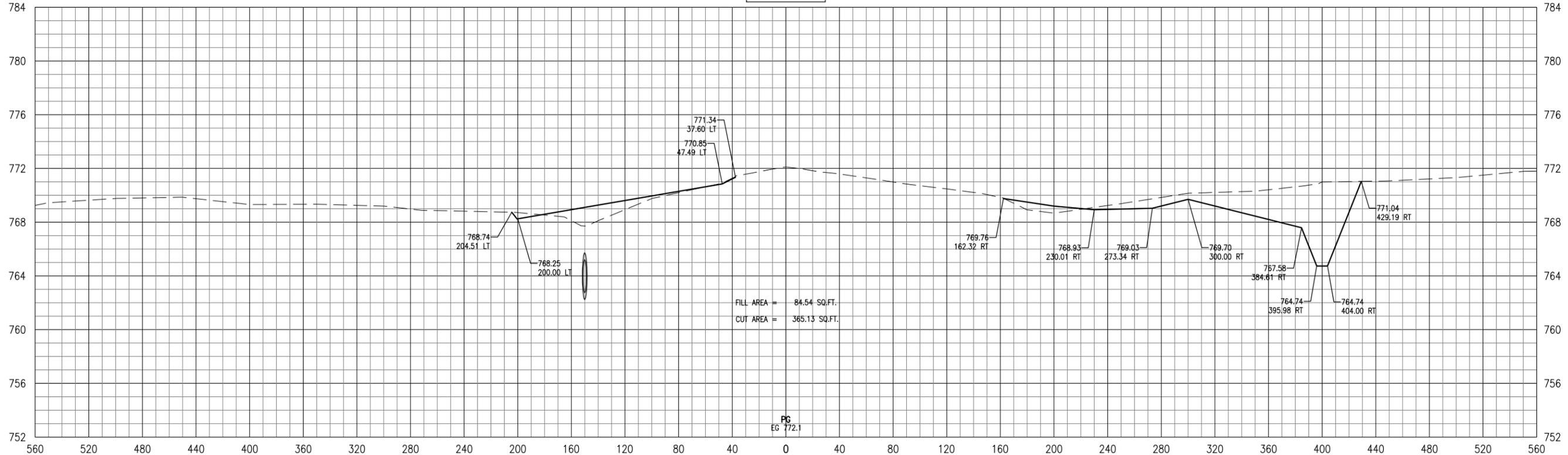


EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT
 RUNWAY 7-25 CROSS SECTIONS
 STA. 107+00 TO 107+50

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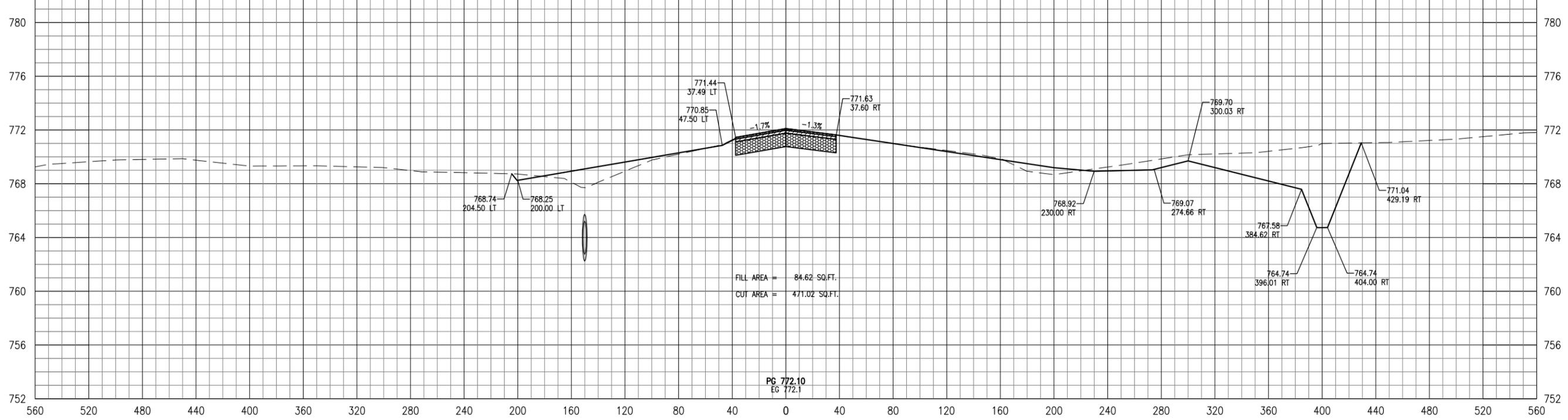
AHEAD

107+75.00



BACK

107+75.00



REVISION	DATE

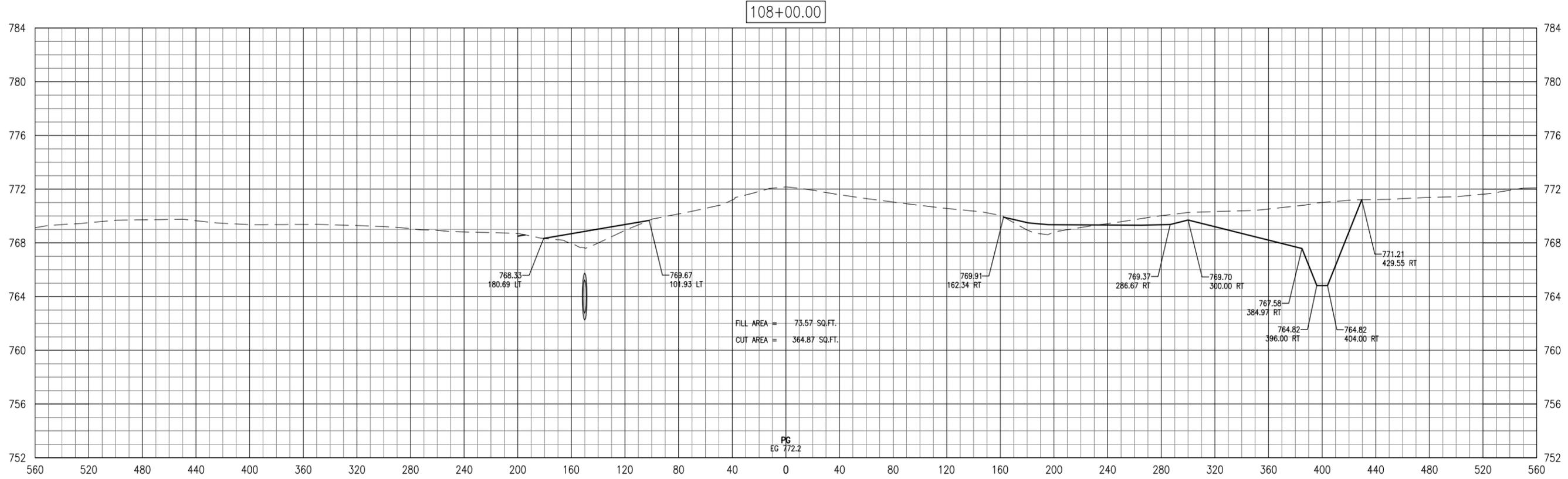
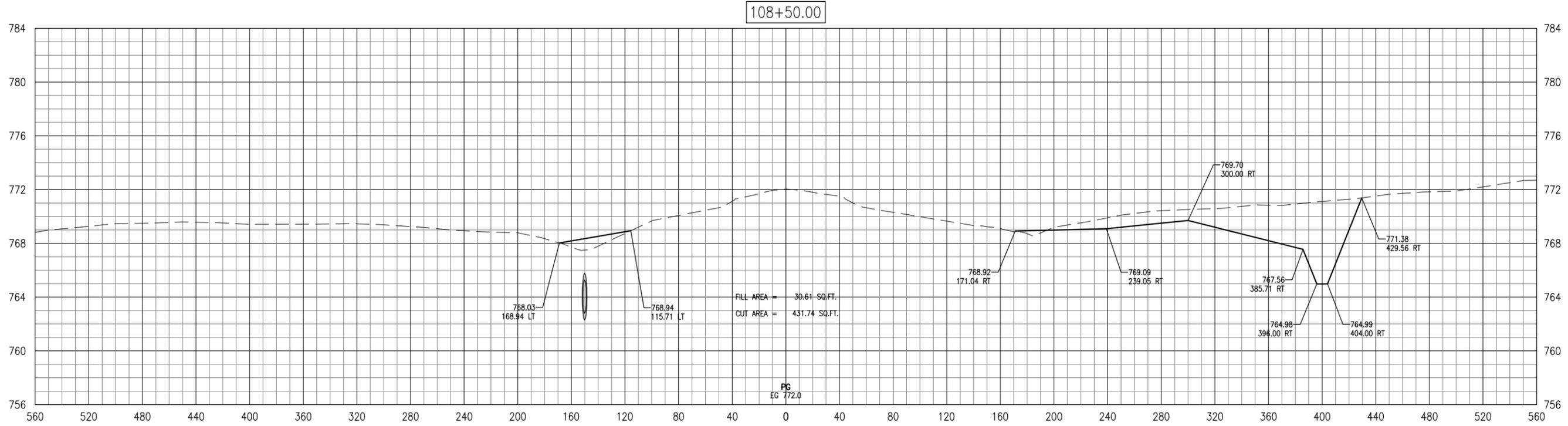
ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	12/28/12
Filename C-301-XS.dwg	12/28/12
Scale 1" = 40'H 1" = 4'Y	01/11/13
Date 01/18/2013	
LAYOUT KBS	
DRAWN MLH	
REVIEWED KBS	



EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT
 RUNWAY 7-25 CROSS SECTIONS
 STA. 107+75

JAN 21, 2013 5:29 PM SCHWED1296
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REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

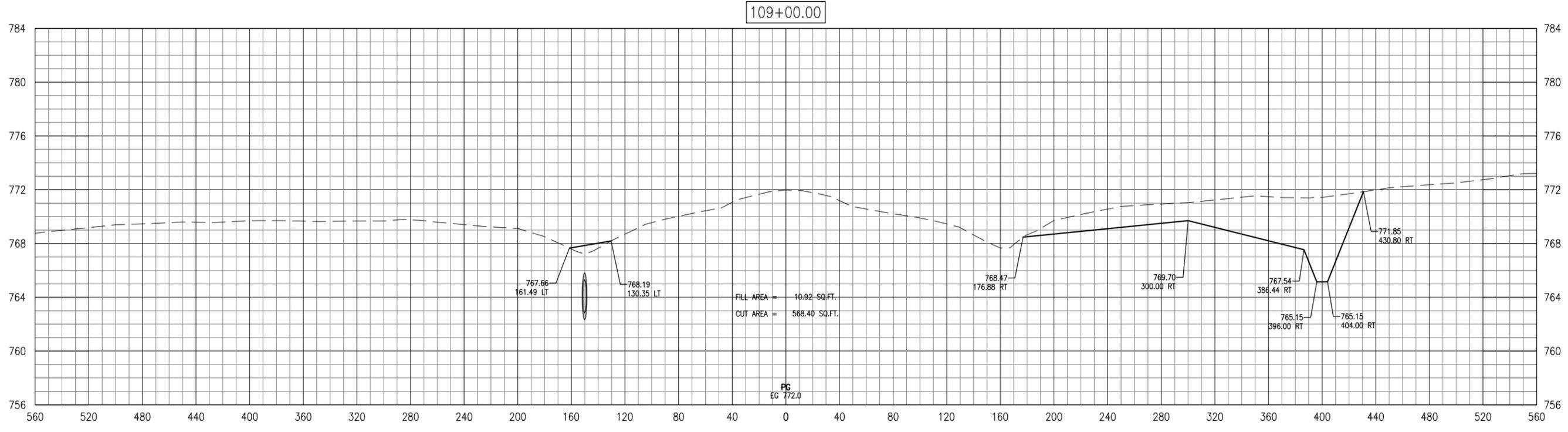
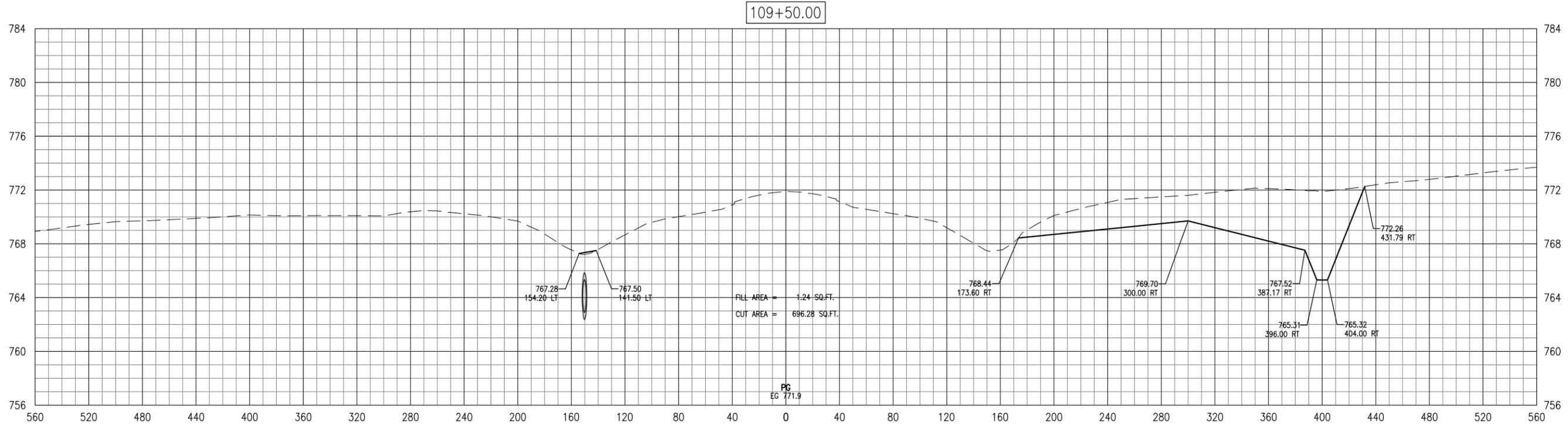
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LAYOUT	KBS 12/28/12
DRAWN	MLH 12/28/12
REVIEWED	KBS 01/11/13

Hanson Proj. No. 09A0141
Filename C-301-XS.dwg
Scale 1" = 40'H 1" = 4'V
Date 01/18/2013



EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

RUNWAY 7-25 CROSS SECTIONS
STA. 108+00 TO 108+50



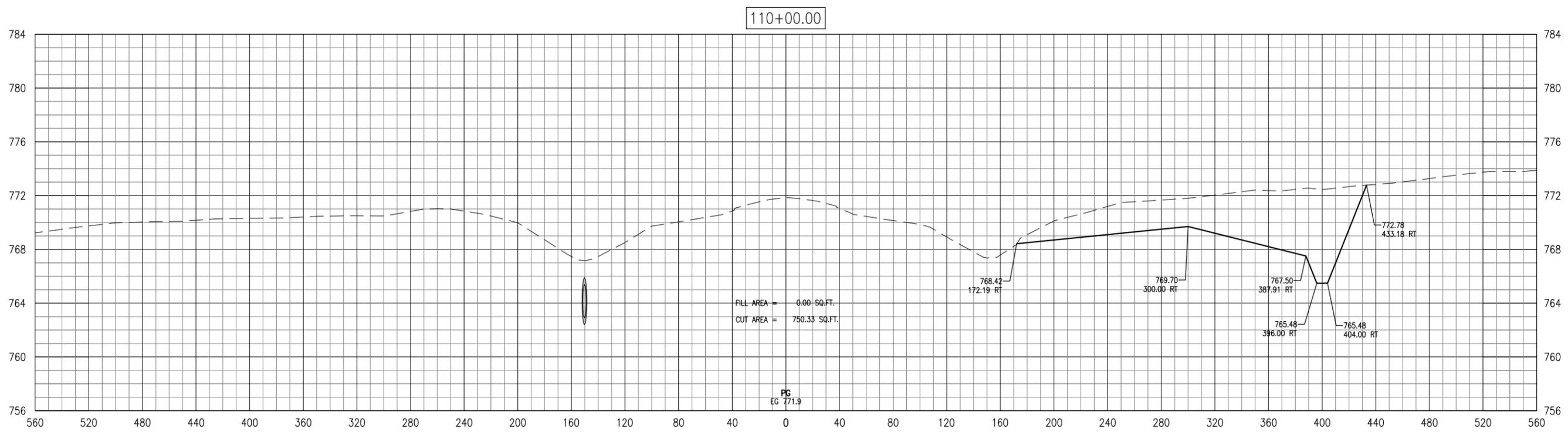
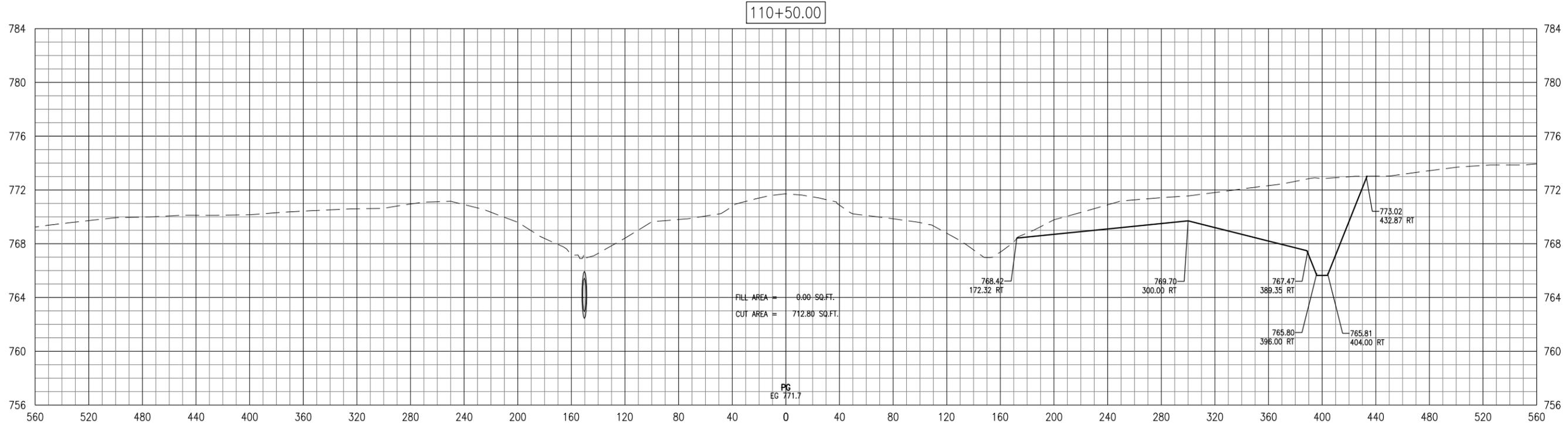
REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

Revision No.	Date	By	Checked
09A0141	01/18/2013	KBS	MLH
C-301-XS.dwg	12/28/12	MLH	KBS
Scale: 1" = 40'H, 1" = 4'V	12/28/12	MLH	KBS
Date	01/11/13	KBS	KBS



EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT
 RUNWAY 7-25 CROSS SECTIONS
 STA. 109+00 TO 109+50



REVISION	DATE

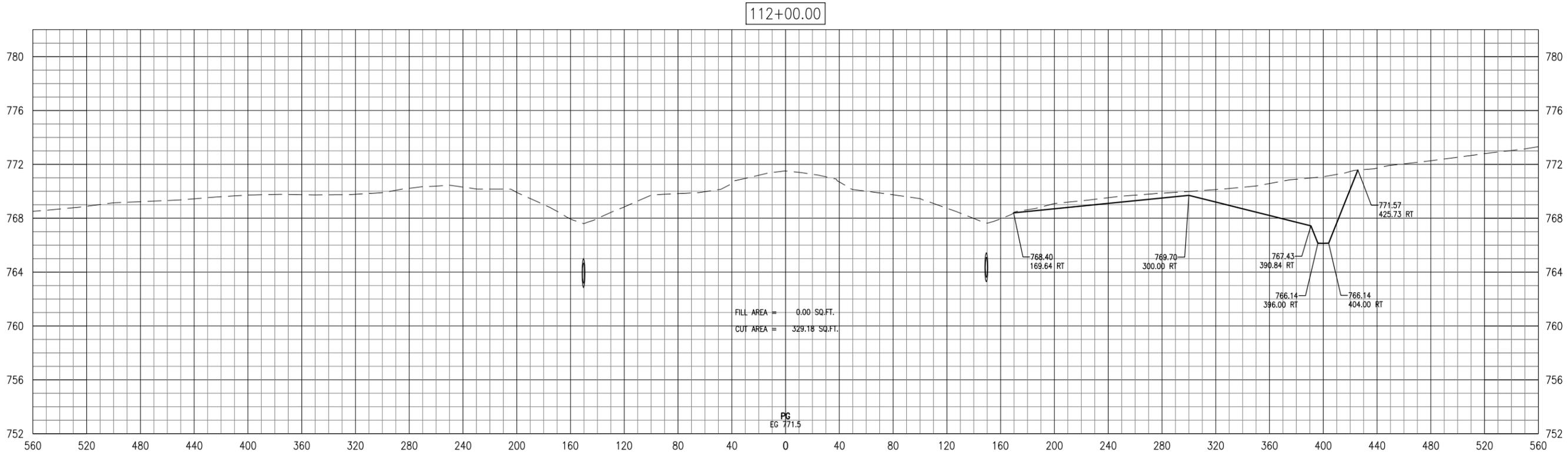
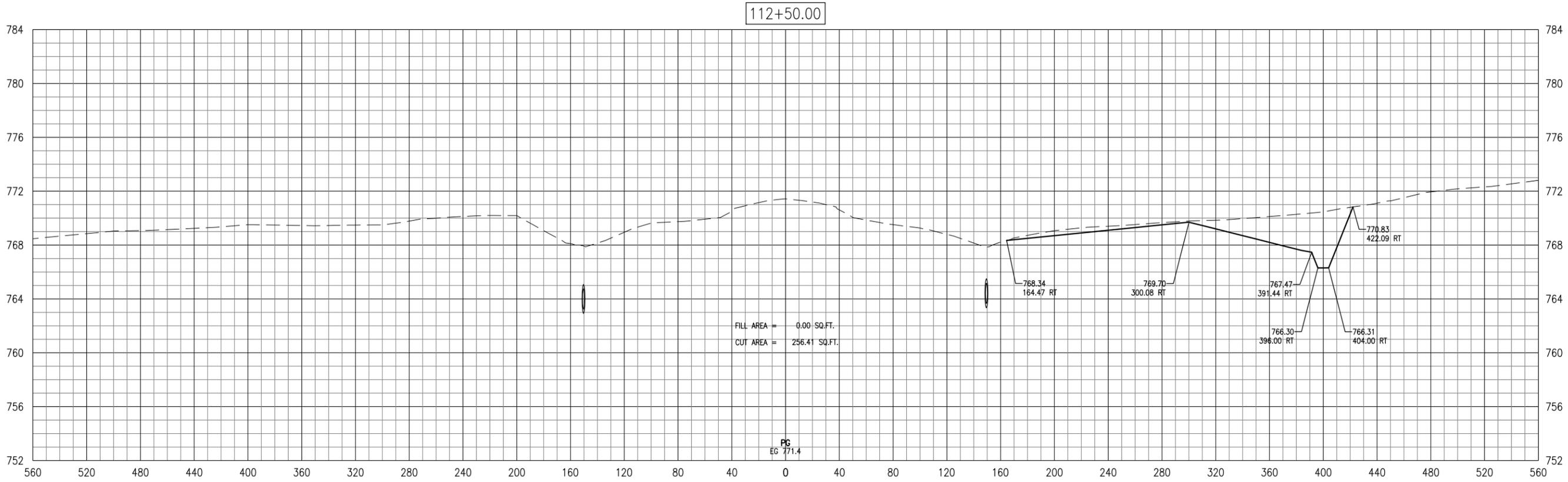
ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

FILENAME	DATE	LAYOUT	REVIEWED
Hanson Proj. No. 09A0141 Filename: C-301-XS.dwg	12/28/12	KBS	KBS
Scale: 1" = 40'H, 1" = 4'V	12/26/12	MJH	MJH
Date: 01/18/2013	01/11/13	KBS	KBS

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EXTEND RUNWAY 7-25 TO
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 RUNWAY 7-25 CROSS SECTIONS
 STA. 110+00 TO 110+50

JAN 21, 2013 5:30 PM SCHWED1296
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REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

IL PROJ.: RPJ-4243
BLOCK GRANT: 3-17-0087-B15

DESCRIPTION	DATE
LAYOUT	KBS 12/28/12
DRAWN	MLH 12/28/12
REVIEWED	KBS 01/11/13

Hanson Proj. No. 09A0141
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Scale: 1" = 40'H, 1" = 4'V
Date: 01/18/2013

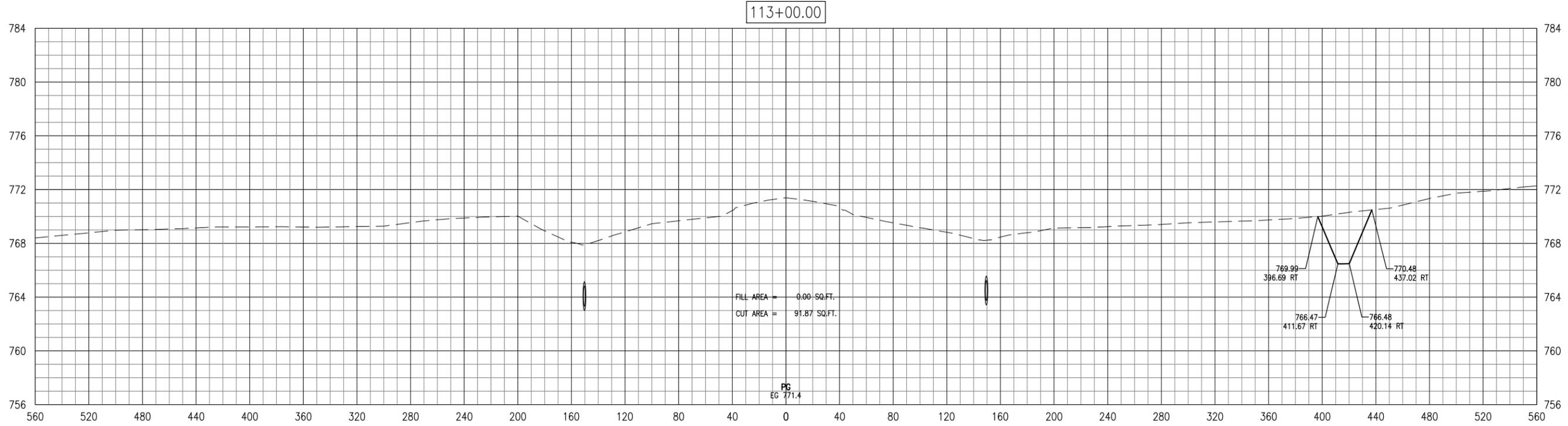
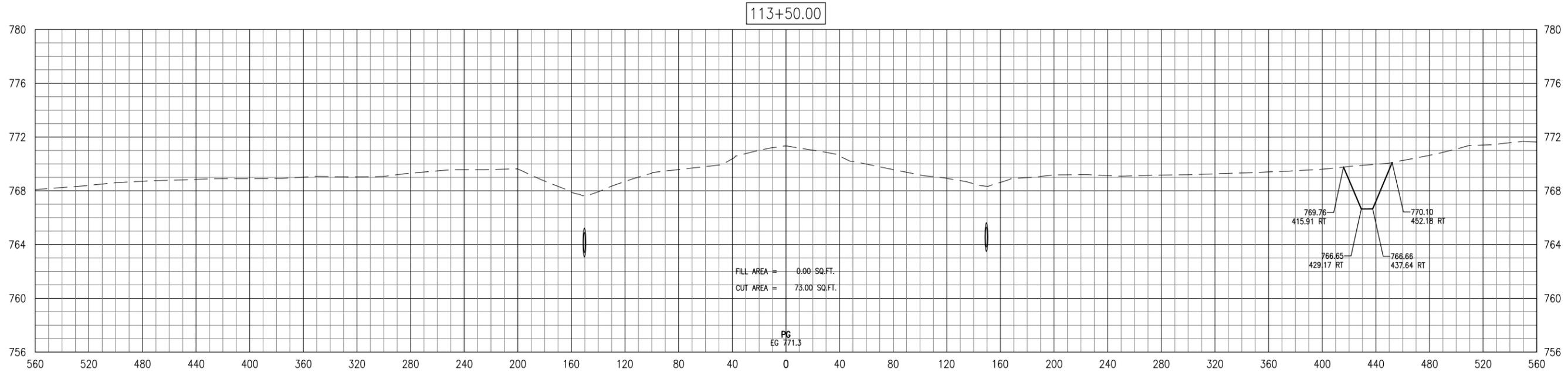
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Springfield, Illinois 62703-2886

EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

RUNWAY 7-25 CROSS SECTIONS
STA. 112+00 TO 112+50

JAN 21, 2013 5:30 PM SCHWED1296
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REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

IL PROJ.: RPJ-4243
BLOCK GRANT: 3-17-0087-B15

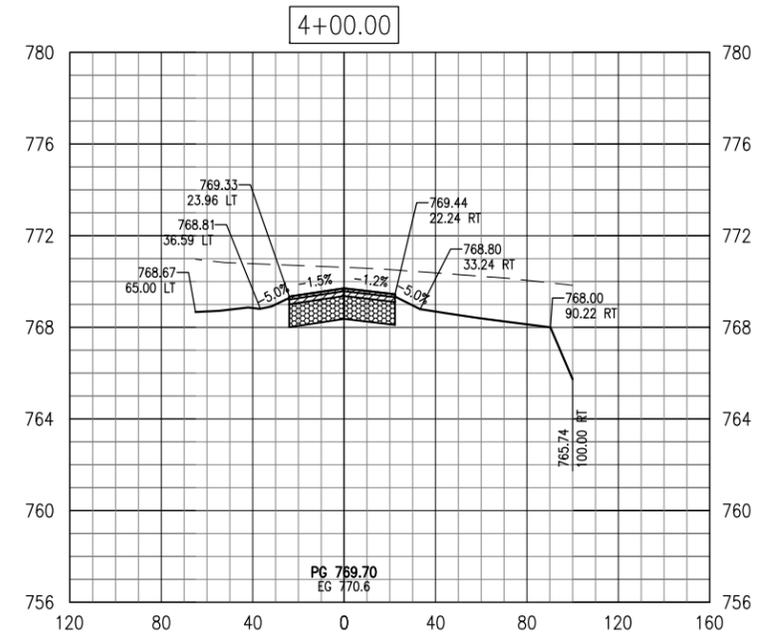
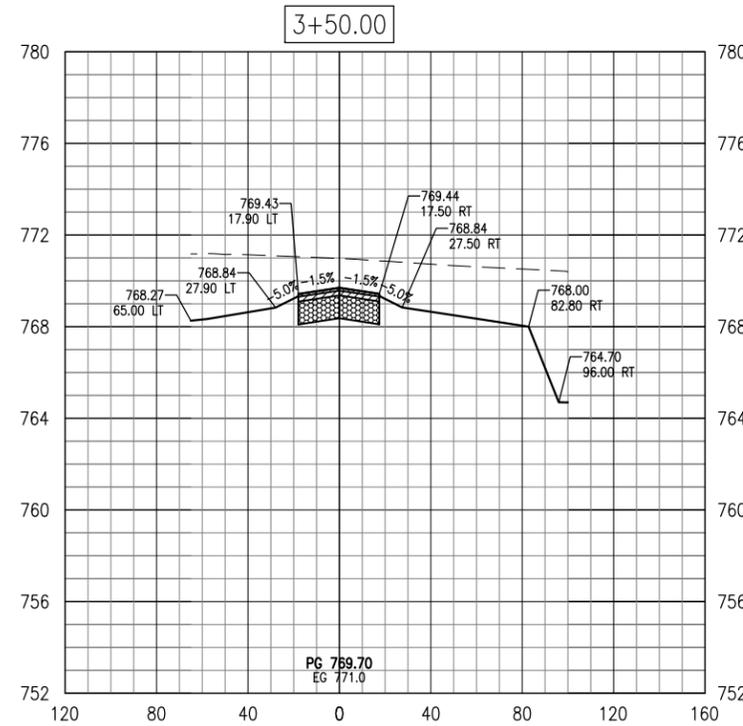
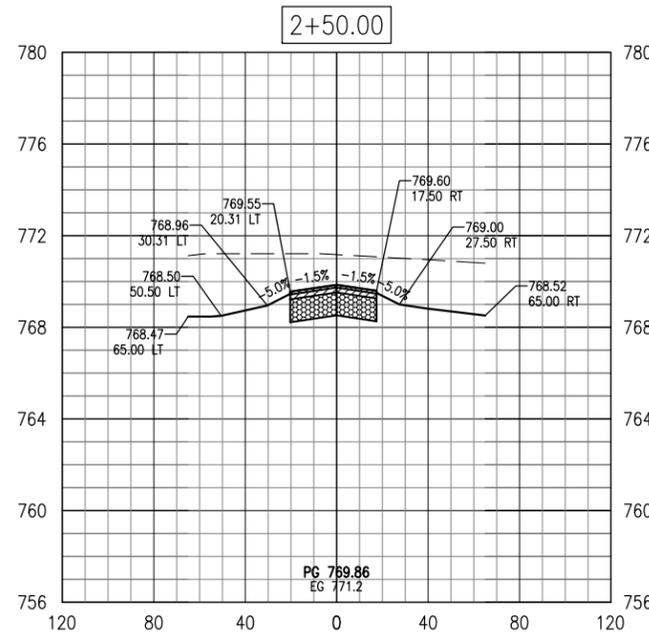
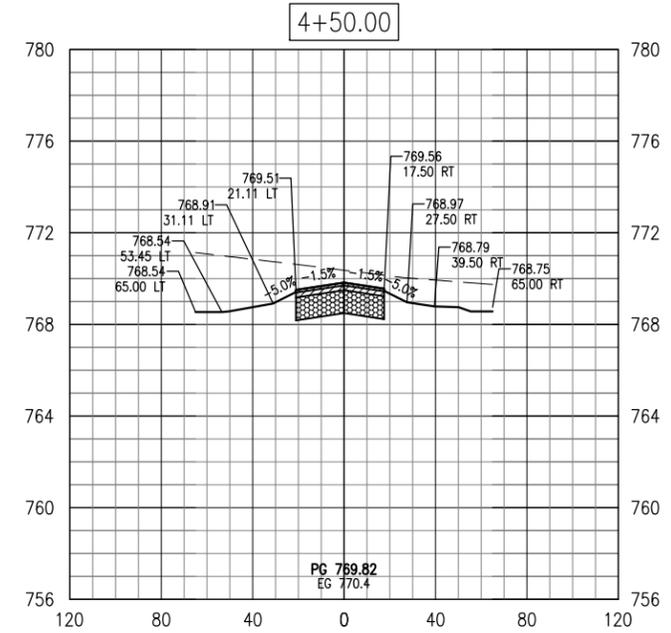
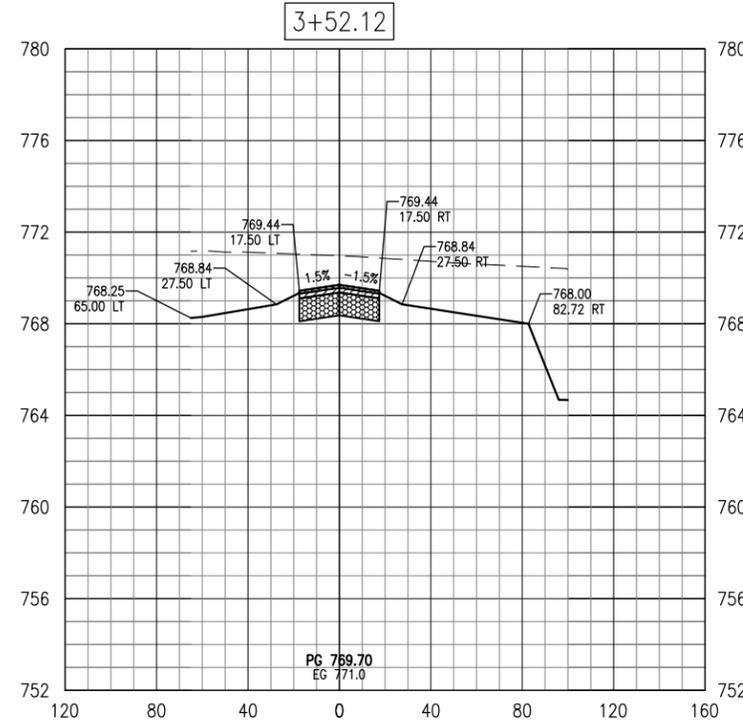
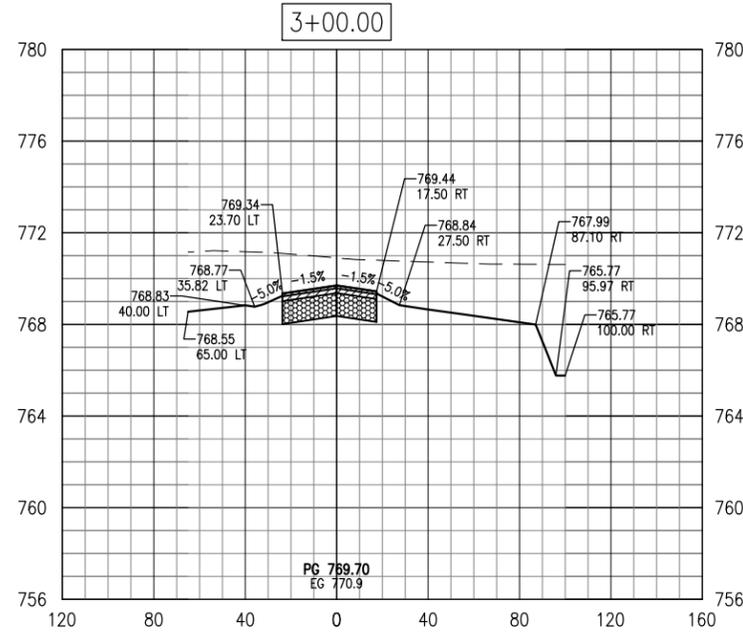
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Filename C-301-XS.dwg	KBS
Scale 1" = 40'H, 1" = 4'V	MJH
Date 01/18/2013	KBS
LAYOUT	REVIEWED
DRAWN	



EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

RUNWAY 7-25 CROSS SECTIONS
STA. 113+00 TO 113+50

- NOTES:
1. END AREAS NOT SHOWN FOR THE TAXIWAY TURNAROUND SECTIONS, BUT ARE INCLUDED IN END AREAS FOR RUNWAY 7-25.
 2. SEE RUNWAY 7-25 SECTIONS AND/OR GRADING PLAN SHEETS FOR GRADES BEYOND THOSE SHOWN FOR THE TAXIWAY TURNAROUND.



JAN 21, 2013 5:31 PM SCHMED1296
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REVISION	DATE

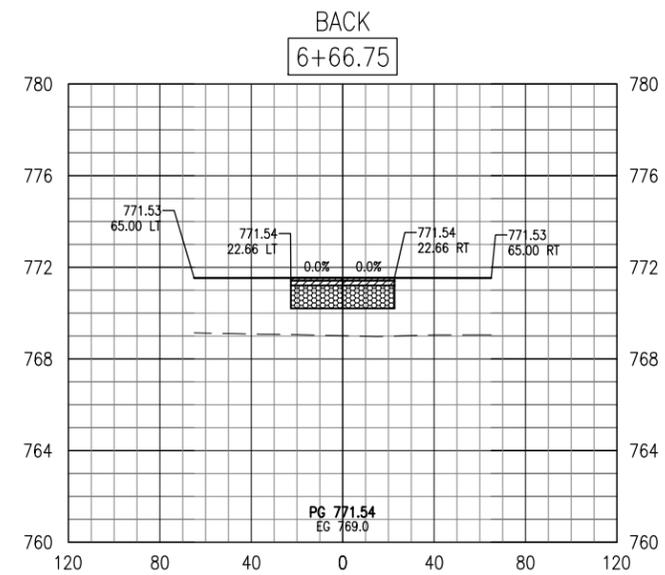
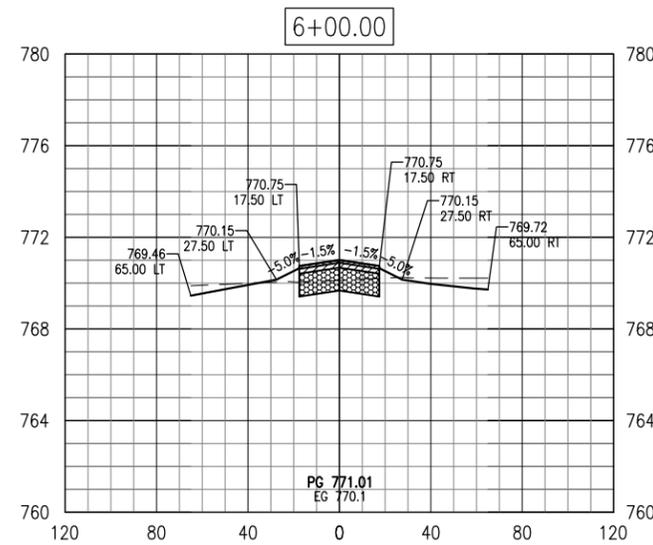
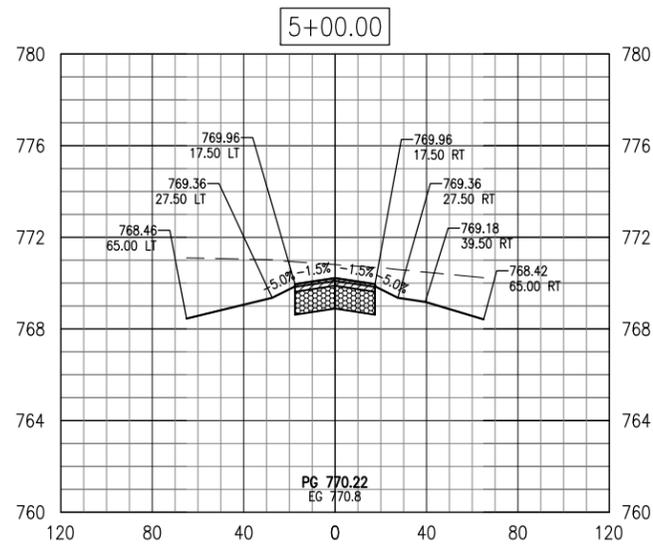
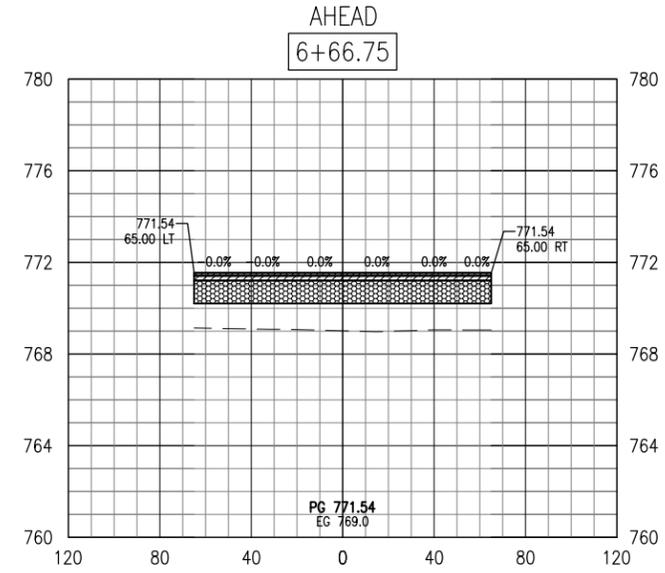
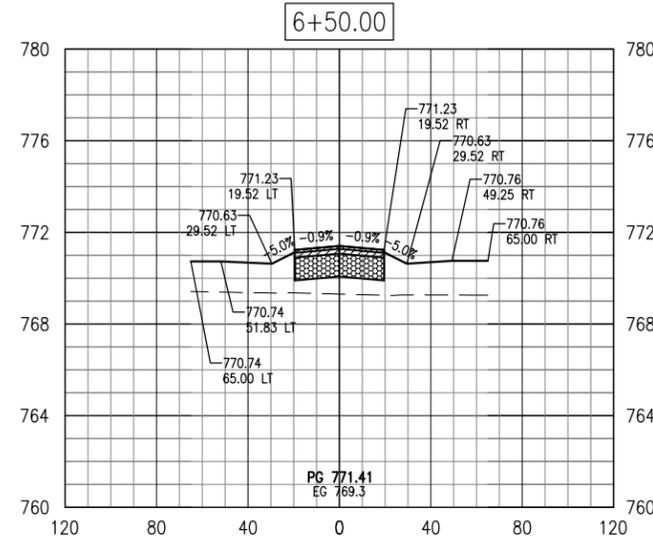
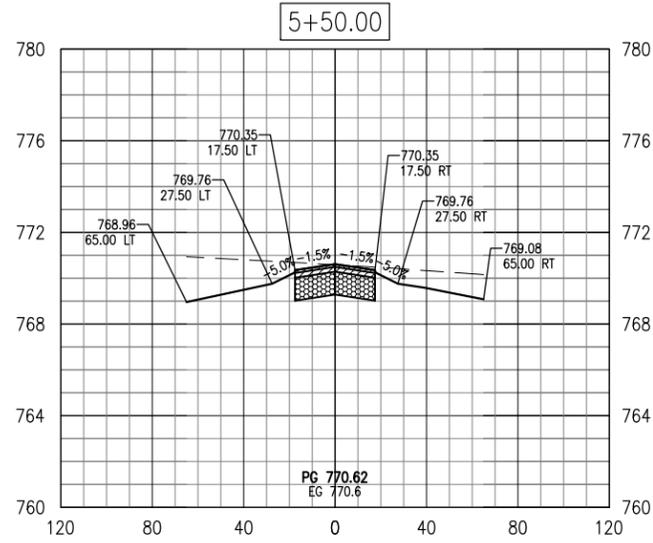
ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	12/28/12
Filename C-301-XS.dwg	12/28/12
Scale 1" = 40'H 1" = 4'V	01/11/13
Date 01/18/2013	
LAYOUT KES	
DRAWN MLH	
REVIEWED KES	



EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT
 TAXIWAY TURNAROUND CROSS
 SECTIONS STA. 2+50 TO 4+50

- NOTES:
1. END AREAS NOT SHOWN FOR THE TAXIWAY TURNAROUND SECTIONS, BUT ARE INCLUDED IN END AREAS FOR RUNWAY 7-25.
 2. SEE RUNWAY 7-25 SECTIONS AND/OR GRADING PLAN SHEETS FOR GRADES BEYOND THOSE SHOWN FOR THE TAXIWAY TURNAROUND.



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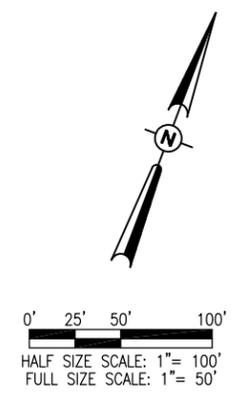
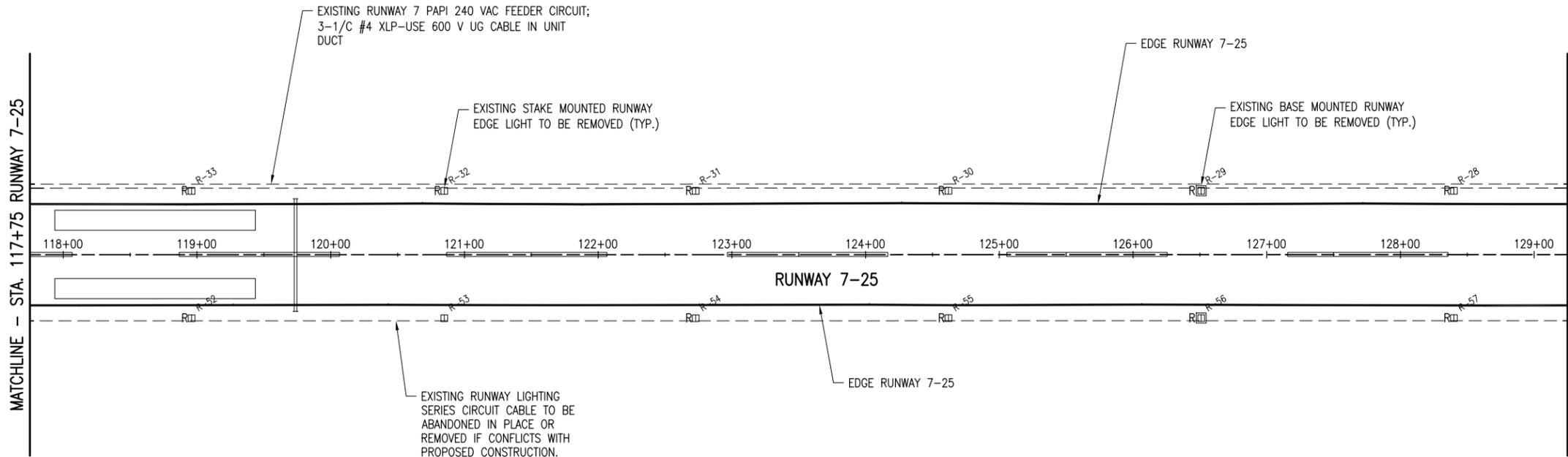
REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS
IL PROJ.: RPJ-4243
BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	12/28/12
Filename C-301-XS.dwg	12/28/12
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Date 01/18/2013	
LAYOUT	KBS
DRAWN	MLH
REVIEWED	KBS

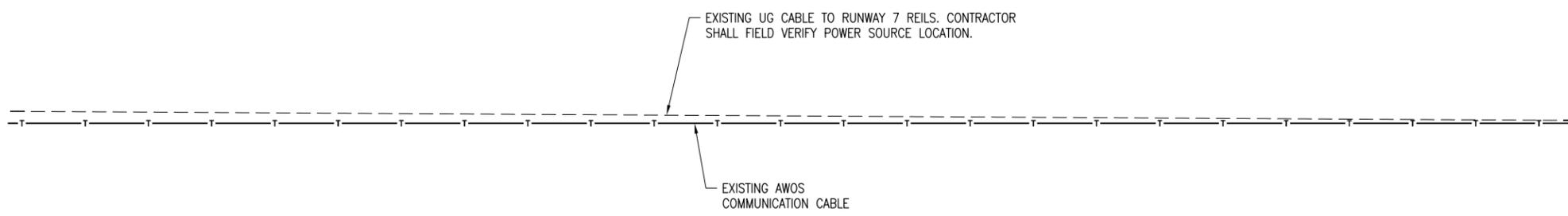


EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT
TAXIWAY TURNAROUND CROSS
SECTIONS STA. 5+00 TO 6+66.75



LEGEND

	EXISTING PAVEMENT
	EXISTING BUILDING
	EXISTING ELECTRICAL DUCT
	EXISTING AIRFIELD LIGHTING ELECTRICAL CABLE
	EXISTING WATER
	EXISTING TELEPHONE/COMMUNICATION
	EXISTING UNDERDRAIN
	EXISTING STORM SEWER
	EXISTING WIND CONE
	EXISTING STAKE MOUNTED TAXIWAY LIGHT (TO BE REMOVED)
	EXISTING BASE MOUNTED TAXIWAY LIGHT (TO BE REMOVED)
	EXISTING STAKE MOUNTED RUNWAY LIGHT (TO BE REMOVED)
	EXISTING BASE MOUNTED RUNWAY LIGHT (TO BE REMOVED)
	EXISTING STAKE MOUNTED THRESHOLD LIGHT (TO BE REMOVED)
	EXISTING BASE MOUNTED THRESHOLD LIGHT (TO BE REMOVED)
	EXISTING TAXI GUIDANCE SIGN (TO BE REMOVED)
	EXISTING AIRPORT ROTATING BEACON



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.

AIRFIELD LIGHTING REMOVAL NOTES

- ALL WORK, POWER OUTAGES, AND/OR SHUT DOWN OF EXISTING SYSTEMS SHALL BE COORDINATED WITH THE AIRPORT MANAGER. ONCE SHUT DOWN, THE CIRCUITS SHALL BE LABELED AS SUCH TO PREVENT ACCIDENTAL ENERGIZING OF THE RESPECTIVE CIRCUITS. ALL PERSONNEL SHALL FOLLOW U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) 29 CFR PART 1910 OCCUPATIONAL SAFETY & HEALTH STANDARDS FOR ELECTRICAL SAFETY AND LOCKOUT/TAGOUT PROCEDURES INCLUDING, BUT NOT LIMITED TO, 29 CFR SECTION 1910.147 THE CONTROL OF HAZARDOUS ENERGY (LOCKOUT/TAGOUT).
- CONTRACTOR SHALL EXAMINE THE SITE TO DETERMINE THE EXTENT OF THE WORK. CONTRACTOR SHALL FIELD VERIFY EXISTING SITE CONDITIONS. CONTRACTOR SHALL FIELD VERIFY RESPECTIVE CIRCUITS AND POWER SOURCES PRIOR TO REMOVING OR DISCONNECTING THE RESPECTIVE AIRFIELD LIGHTING, TAXI SIGN, NAVAID, OR OTHER DEVICE.
- CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF FAA AC NO. 150/5370-2F (OR MOST CURRENT ISSUE) "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".
- CONTRACTOR SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF NFPA 70E - STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE.
- THE EXISTING THRESHOLD LIGHTS DESIGNATED FOR REMOVAL SHALL BE REMOVED AND RELOCATED FOR USE WITH ITEM AR620912 TEMPORARY MARK AND LIGHT. WHEN THE TEMPORARY THRESHOLD IS REMOVED THE LIGHTS AND THEIR ISOLATING TRANSFORMERS SHALL BE TURNED OVER TO THE AIRPORT MANAGER. REMOVAL AND RELOCATION OF THE EXISTING THRESHOLD LIGHTS WILL BE PAID FOR UNDER ITEM AR620912 TEMPORARY MARK AND LIGHT, PER LUMP SUM.
- THE CONTRACTOR IS ENCOURAGE TO INSPECT EACH EXISTING LIGHT PRIOR TO RELOCATION AND IDENTIFY TO THE RESIDENT ENGINEER ANY DAMAGED OR INOPERABLE PARTS. ONCE THE EXISTING LIGHT IS REMOVED, THE CONTRACTOR IS RESPONSIBLE FOR ALL FIXTURES DAMAGED DURING THE RELOCATION. ALL LIGHTS WILL BE REINSTALLED IN PROPER WORKING ORDER, OR REPLACED AT THE CONTRACTORS EXPENSE.
- THE EXISTING AIRFIELD (RUNWAY & TAXIWAY) LIGHTS AND THEIR ISOLATED TRANSFORMERS DESIGNATED FOR REMOVAL SHALL BE REMOVED AND TURNED OVER TO THE AIRPORT. THE CONCRETE LIGHT BASES SHALL BE REMOVED AND DISPOSED OF, OFF THE AIRPORT SITE IN A LEGAL MANNER. REMOVAL OF THE EXISTING AIRFIELD LIGHTS WILL BE PAID FOR UNDER ITEM AR125901 REMOVE STAKE MOUNTED LIGHT, PER EACH AND AR125902 REMOVE BASE MOUNTED LIGHT, PER EACH.
- THE EXISTING AIRFIELD LIGHTING CABLES ASSOCIATED WITH AIRFIELD LIGHTING REMOVALS SHALL BE ABANDONED IN PLACE UNLESS IT CONFLICTS WITH THE INSTALLATION OF A PROPOSED LIGHT OR CABLE, PAVEMENT, OR OTHER WORK, THEN IT SHALL BE REMOVED AND DISPOSED OF OFF SITE AT NO ADDITIONAL COST TO THE CONTRACT. CONTRACTOR MAY REMOVE ABANDONED CABLES AT NO ADDITIONAL COST TO THE CONTRACT AND SHALL HAVE THE SALVAGE RIGHTS TO ABANDONED CABLES.
- ALL ABOVEGROUND JUMPERS SHALL BE IN A DUCT WITH ALL CONNECTIONS SEALED. THE CONTRACTOR SHALL SECURE, IDENTIFY AND PLACE ALL TEMPORARY EXPOSED WIRING IN CONDUIT, DUCT, OR UNIT DUCT TO PREVENT ELECTROCUTION AND FIRE IGNITION SOURCES AS PER THE REQUIREMENTS OF FAA 150/5370-2F, OPERATION SAFETY ON AIRPORTS DURING CONSTRUCTION, SECTION 218, PARAGRAPH c.
- THE CONTRACTOR IS REQUIRED TO FILL IN ALL HOLES AND DEPRESSIONS RESULTING FROM THE LIGHT, AND/OR BASE REMOVAL WITH EARTH MATERIAL. THE AREAS SHALL BE COMPACTED TO PREVENT FUTURE SETTLEMENT AND FERTILIZED, SEEDED, AND MULCHED IN ACCORDANCE WITH ITEMS 901 AND 908 RESPECTIVELY.
- NO CONNECTION TO AN ACTIVE LIGHTING CIRCUIT SHALL BE BROKEN UNTIL THE CIRCUIT HAS BEEN TURNED OFF IN ACCORDANCE WITH THE ABOVE NOTE 1

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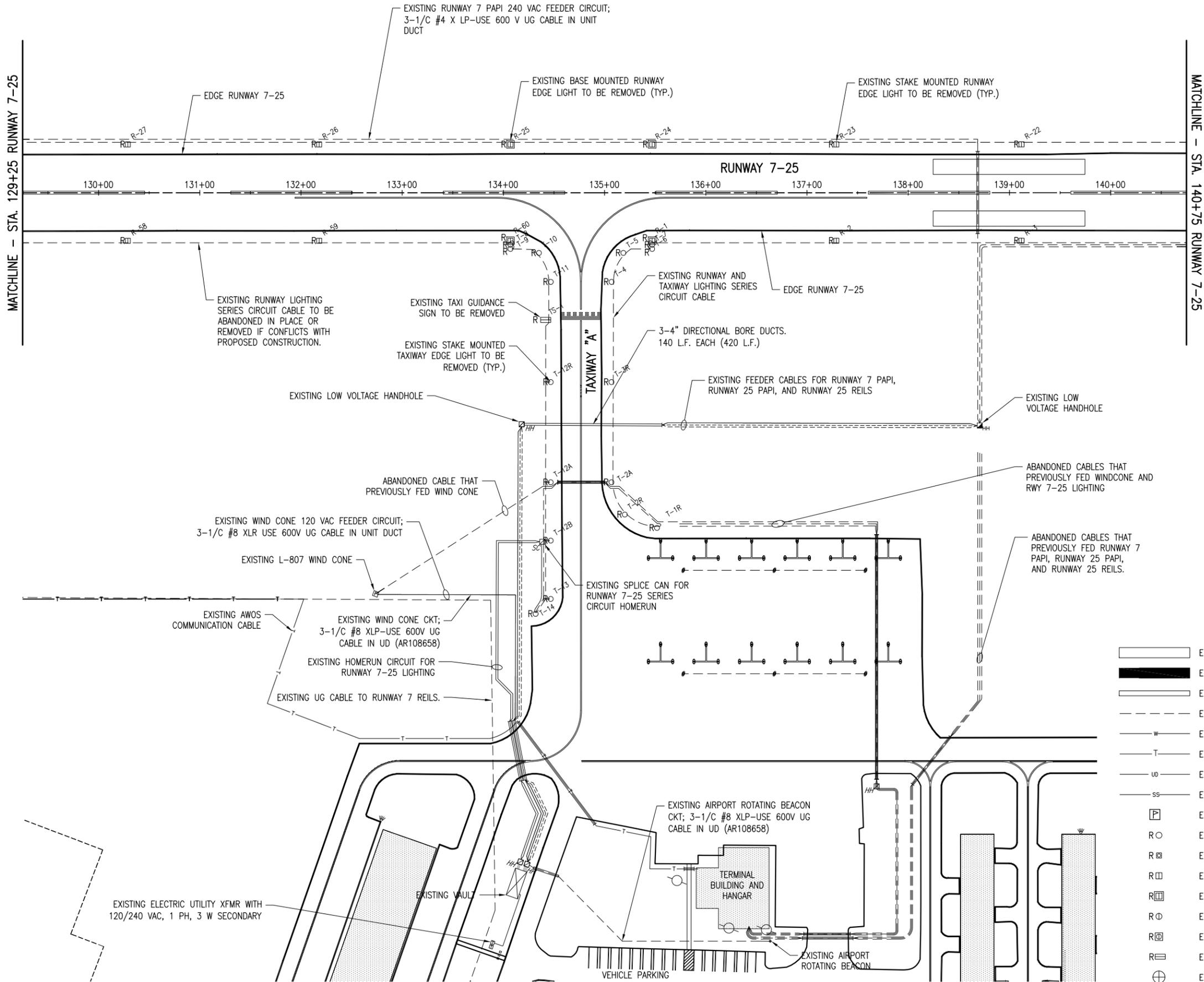
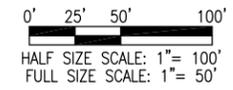
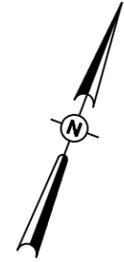
REVISION	
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ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	
Filename C-141-ELEC.dwg	
Scale 1"=50'	
Date 01/18/2013	
LAYOUT	11/30/12
DAW	DAW
DRAWN	DAW
REVIEWED	KNL
	12/15/12



EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT
 EXISTING ELECTRICAL PLAN - STA. 117+75 TO STA. 129+25



MATCHLINE - STA. 129+25 RUNWAY 7-25

MATCHLINE - STA. 140+75 RUNWAY 7-25

LEGEND

- EXISTING PAVEMENT
- EXISTING BUILDING
- EXISTING ELECTRICAL DUCT
- EXISTING AIRFIELD LIGHTING ELECTRICAL CABLE
- EXISTING WATER
- EXISTING TELEPHONE/COMMUNICATION
- EXISTING UNDERDRAIN
- EXISTING STORM SEWER
- EXISTING WIND CONE
- EXISTING STAKE MOUNTED TAXIWAY LIGHT (TO BE REMOVED)
- EXISTING BASE MOUNTED TAXIWAY LIGHT (TO BE REMOVED)
- EXISTING STAKE MOUNTED RUNWAY LIGHT (TO BE REMOVED)
- EXISTING BASE MOUNTED RUNWAY LIGHT (TO BE REMOVED)
- EXISTING STAKE MOUNTED THRESHOLD LIGHT (TO BE REMOVED)
- EXISTING BASE MOUNTED THRESHOLD LIGHT (TO BE REMOVED)
- EXISTING TAXI GUIDANCE SIGN (TO BE REMOVED)
- EXISTING AIRPORT ROTATING BEACON

REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS

IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

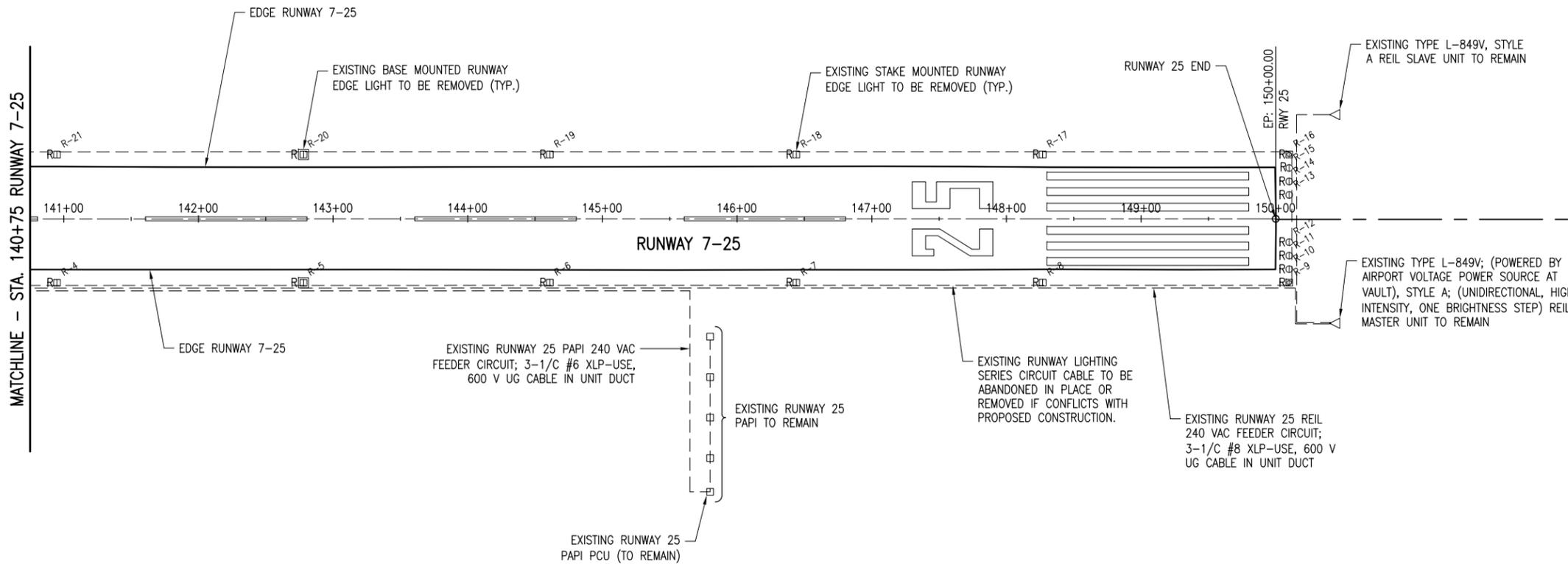
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EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT

EXISTING ELECTRICAL PLAN - STA. 129+25 TO STA. 140+75

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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.

LEGEND

	EXISTING PAVEMENT
	EXISTING BUILDING
	EXISTING ELECTRICAL DUCT
	EXISTING AIRFIELD LIGHTING ELECTRICAL CABLE
	EXISTING WATER
	EXISTING TELEPHONE/COMMUNICATION
	EXISTING UNDERDRAIN
	EXISTING STORM SEWER
	EXISTING WIND CONE
	EXISTING STAKE MOUNTED TAXIWAY LIGHT (TO BE REMOVED)
	EXISTING BASE MOUNTED TAXIWAY LIGHT (TO BE REMOVED)
	EXISTING STAKE MOUNTED RUNWAY LIGHT (TO BE REMOVED)
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	EXISTING STAKE MOUNTED THRESHOLD LIGHT (TO BE REMOVED)
	EXISTING BASE MOUNTED THRESHOLD LIGHT (TO BE REMOVED)
	EXISTING TAXI GUIDANCE SIGN (TO BE REMOVED)
	EXISTING AIRPORT ROTATING BEACON

REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS

IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

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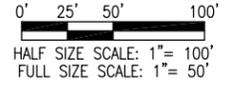
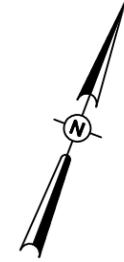
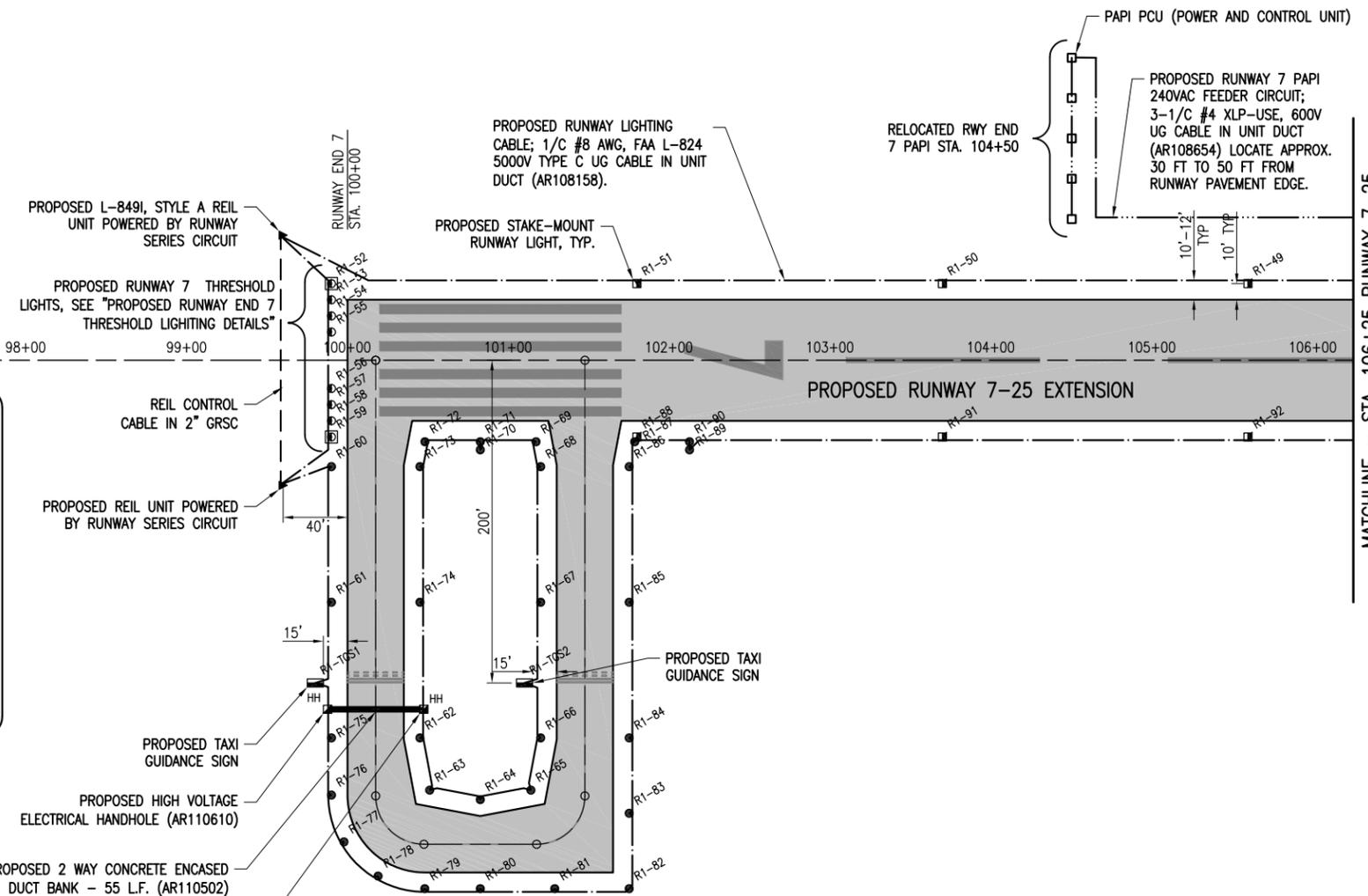


EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT

EXISTING ELECTRICAL PLAN - STA. 140+75 TO STA. 150+00

RUNWAY 7 REIL LOCATION NOTE

THE REILS ON RUNWAY 7 SHALL BE LOCATED 40 FEET DOWNWIND OF THE RUNWAY THRESHOLD & 40 FEET FROM THE RUNWAY EDGE TO COMPLY WITH FAA AC 150/5340-30G, FAA ORDER J06850.2B, AND ACCOMMODATE THE ADJACENT TAXIWAY TURNAROUND AND THE RUNWAY 7 PAPI.



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- PROPOSED TAXI GUIDANCE SIGN
- PROPOSED HIGH VOLTAGE ELECTRICAL HANDHOLE (AR110610)
- PROPOSED 2 WAY CONCRETE ENCASED DUCT BANK - 55 L.F. (AR110502) TERMINATE DUCT IN HANDHOLES
- PROPOSED HIGH VOLTAGE ELECTRICAL HANDHOLE (AR110610)

LEGEND

- EXISTING PAVEMENT
- EXISTING BUILDING
- PROPOSED ELECTRICAL DUCT
- EXISTING ELECTRICAL DUCT
- EXISTING ELECTRICAL CABLE
- PROPOSED 1/C #8 AWG, FAA L-824, 5000 VOLT TYPE C UNDERGROUND CABLE IN UNIT DUCT
- PROPOSED 3-1/C #4 XLP-USE 600V UG CABLE IN UNIT DUCT
- PROPOSED ELECTRICAL CABLE
- EXISTING TELEPHONE/COMMUNICATION
- PROPOSED STAKE MOUNTED TAXIWAY LIGHT
- PROPOSED BASE MOUNTED TAXIWAY LIGHT
- PROPOSED STAKE MOUNTED RUNWAY LIGHT
- PROPOSED BASE MOUNTED RUNWAY LIGHT
- PROPOSED STAKE MOUNTED THRESHOLD LIGHT
- PROPOSED BASE MOUNTED THRESHOLD LIGHT
- PROPOSED REIL
- EXISTING REIL
- PROPOSED TAXI GUIDANCE SIGN
- PROPOSED ELECTRICAL HANDHOLE
- PROPOSED SPLICE CAN

AIRFIELD LIGHTING NOTES

- ALL WORK, POWER OUTAGES, AND/OR SHUT DOWN OF EXISTING SYSTEMS SHALL BE COORDINATED WITH THE AIRPORT DIRECTOR/MANAGER. ONCE SHUT DOWN, THE CIRCUITS SHALL BE LABELED AS SUCH TO PREVENT ACCIDENTAL ENERGIZING OF THE RESPECTIVE CIRCUITS. ALL PERSONNEL SHALL FOLLOW U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) 29 CFR PART 1910 OCCUPATIONAL SAFETY & HEALTH STANDARDS FOR ELECTRICAL SAFETY AND LOCKOUT/TAGOUT PROCEDURES INCLUDING, BUT NOT LIMITED TO 29 CFR SECTION 1910.147 THE CONTROL OF HAZARDOUS ENERGY (LOCKOUT/TAGOUT).
- CONTRACTOR SHALL FIELD VERIFY EXISTING SITE CONDITIONS. CONTRACTOR SHALL FIELD VERIFY RESPECTIVE CIRCUITS AND POWER SOURCES PRIOR TO REMOVING OR DISCONNECTING THE RESPECTIVE AIRFIELD LIGHTING, NAVAID, OR OTHER DEVICE.
- PROPOSED RUNWAY, THRESHOLD, AND TAXIWAY LIGHTS SHALL BE PLACED 10' (FT.) FROM THE PAVEMENT EDGE UNLESS SHOWN OTHERWISE ON THESE CONSTRUCTION DRAWINGS. PROPOSED TAXI GUIDANCE SIGNS SHALL BE LOCATED SUCH THAT THE CLOSEST SIDE OF THE SIGN IS 15' FROM THE PAVEMENT EDGE, UNLESS SHOWN OTHERWISE.
- PROPOSED RUNWAY LIGHTS, THRESHOLD LIGHTS, TAXIWAY LIGHTS, GUIDANCE SIGNS, OTHER AIRFIELD LIGHTING, SPLICE CANS, HANDHOLES, MANHOLES, ELECTRICAL DUCTS, AND CABLE SHALL BE INSTALLED AT THE LOCATIONS SHOWN AND IN COMPLIANCE WITH THE SPECIFICATIONS, SPECIAL PROVISIONS, RESPECTIVE DETAILS, AND MANUFACTURER'S RECOMMENDATIONS.
- PROPOSED CABLE FOR RUNWAY AND TAXIWAY LIGHTING SHALL BE INSTALLED APPROXIMATELY 10' FROM THE PAVEMENT EDGE. CABLES SHALL BE PLACED A MINIMUM OF 18" BELOW FINISHED GRADE.
- THE PROPOSED RUNWAY AND TAXIWAY LIGHTING CABLE SHALL BE 1/C, #8 AWG, FAA L-824, 5000 VOLT, TYPE C UNDERGROUND CABLE IN UNIT DUCT.
- IN AREAS WHERE THERE IS A CONGESTION OF CABLES OR WHERE THE PROPOSED CABLE CROSSES AN EXISTING CABLE, THE CONTRACTOR IS REQUIRED TO HAND DIG THE TRENCH NECESSARY FOR THE PROPOSED CABLE. AT OTHER LOCATIONS, THE PROPOSED CABLE MAY BE TRENCHED OR PLOWED INTO PLACE. HAND DIGGING, TRENCHING AND/OR PLOWING WILL BE CONSIDERED INCIDENTAL TO THE PROPOSED CABLES AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- PROPOSED RUNWAY LIGHTS SHALL BE FITTED WITH LENSES IN ACCORDANCE WITH THE "LIGHT LENS SCHEDULE". ALL PROPOSED TAXIWAY LIGHTS WILL BE FITTED WITH 360° BLUE LENSES.
- ALL PROPOSED RUNWAY, THRESHOLD, AND TAXIWAY LIGHTS SHALL BE TAGGED BY THE CONTRACTOR IN ACCORDANCE WITH THE LIGHT NUMBERS SHOWN ON THESE CONSTRUCTION DRAWINGS.
- SEE "TAXI GUIDANCE SIGN SCHEDULE" FOR INFO ON SIGN LEGENDS.
- THE CONTRACTOR SHALL SECURE, IDENTIFY AND PLACE ALL TEMPORARY EXPOSED WIRING IN CONDUIT, DUCT OR UNIT DUCT TO PREVENT ELECTROCUTION AND FIRE IGNITION SOURCES AS PER THE REQUIREMENTS OF FAA AC 150/5370-2F, PART 218, PARAGRAPH C. ALL LABOR, MATERIALS, AND TIME NECESSARY TO COMPLY WITH THIS REQUIREMENT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- HOMERUN CABLES FOR A RESPECTIVE CIRCUIT THAT ARE INSTALLED IN CONDUIT OR DUCT SHALL BE RUN TOGETHER IN THE SAME RACEWAY OR DUCT.
- EXISTING AIRFIELD LIGHTING CABLES (SCHEDULED FOR REPLACEMENT) IN AREAS OF NEW WORK SHALL BE DISCONNECTED & REMOVED WHERE IN CONFLICT WITH NEW CONSTRUCTION. IN OTHER AREAS CABLES MAY BE ABANDONED IN PLACE.
- THE CONTRACTOR IS REQUIRED TO FILL IN ALL HOLES AND DEPRESSIONS RESULTING FROM THE NEW WORK, WITH EARTH MATERIAL. THE AREAS SHALL BE COMPACTED TO PREVENT FUTURE SETTLEMENT AND FERTILIZED, SEEDED, AND MULCHED IN ACCORDANCE WITH ITEMS 901 AND 908 RESPECTIVELY.
- IN THE EVENT THAT OTHER CONSTRUCTION PROJECTS ARE IN PROGRESS AT THE AIRPORT AT THE SAME TIME AS THIS PROJECT, THE CONTRACTOR WILL BE REQUIRED TO COOPERATE WITH ALL OTHER CONTRACTORS AND THE AIRPORT MANAGER IN THE COORDINATION OF THE WORK.
- NO CONNECTION TO AN ACTIVE LIGHTING CIRCUIT WILL BE BROKEN UNTIL THE CIRCUIT HAS BEEN TURNED OFF IN ACCORDANCE WITH NOTE 1.

REVISION

NO.	DATE	DESCRIPTION

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS
BLOCK GRANT: 3-17-0087-B15
IL PROJ.: RPJ-4243

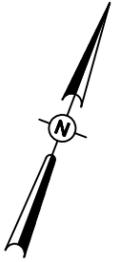
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Date: 01/18/2013

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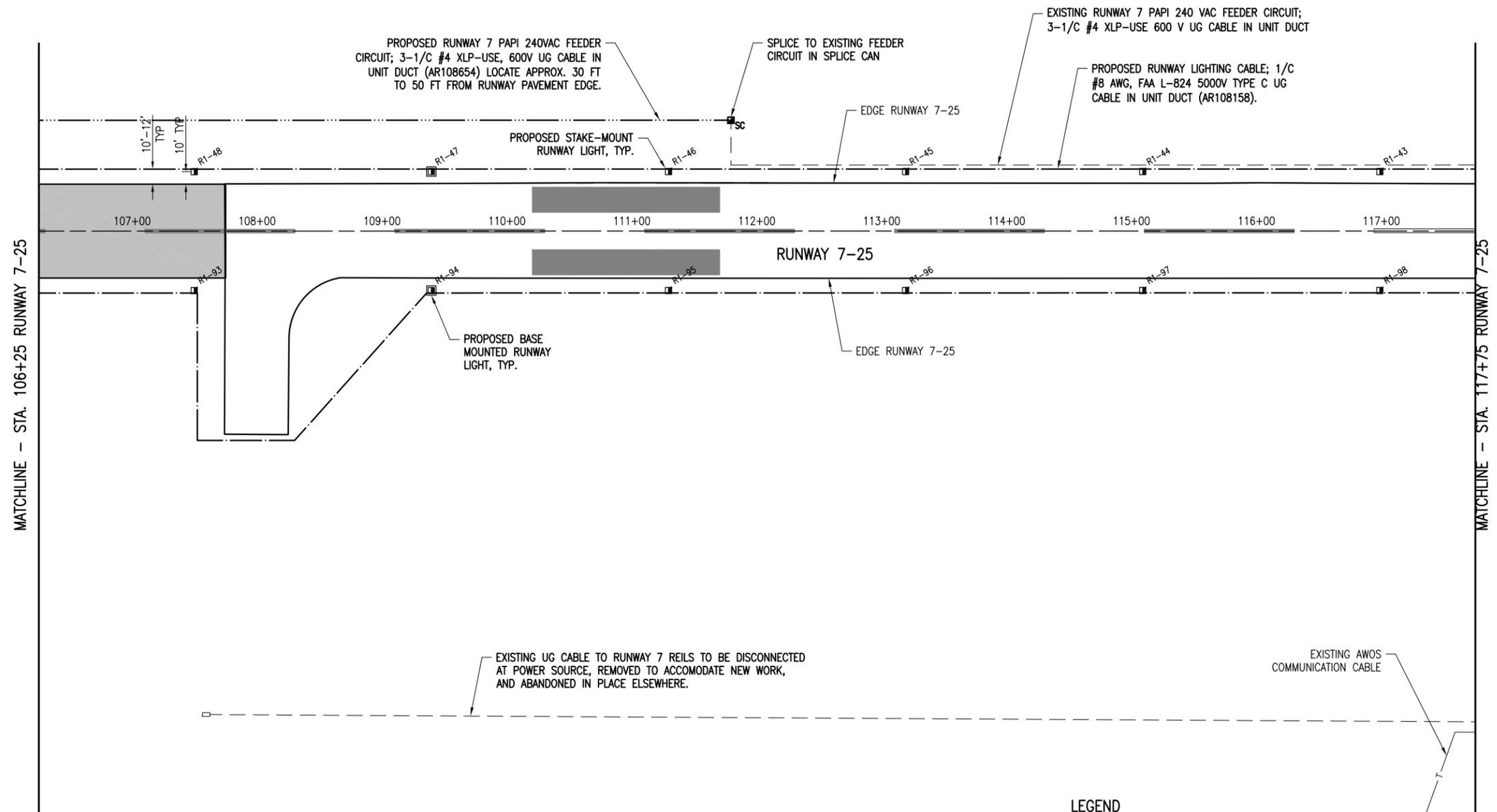


EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT
PROPOSED ELECTRICAL PLAN - STA. 94+75 TO STA. 106+25

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



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LEGEND

	EXISTING PAVEMENT		PROPOSED REIL
	EXISTING BUILDING		EXISTING REIL
	PROPOSED ELECTRICAL DUCT		PROPOSED TAXI GUIDANCE SIGN
	EXISTING ELECTRICAL DUCT		PROPOSED ELECTRICAL HANDHOLE
	EXISTING ELECTRICAL CABLE		PROPOSED SPLICE CAN
	PROPOSED 1/C #8 AWG, FAA L-824, 5000 VOLT TYPE C UNDERGROUND CABLE IN UNIT DUCT		
	PROPOSED 3-1/C #4 XLP-USE 600V UG CABLE IN UNIT DUCT		
	PROPOSED ELECTRICAL CABLE		
	EXISTING TELEPHONE/COMMUNICATION		
	PROPOSED STAKE MOUNTED TAXIWAY LIGHT		
	PROPOSED BASE MOUNTED TAXIWAY LIGHT		
	PROPOSED STAKE MOUNTED RUNWAY LIGHT		
	PROPOSED BASE MOUNTED RUNWAY LIGHT		
	PROPOSED STAKE MOUNTED THRESHOLD LIGHT		
	PROPOSED BASE MOUNTED THRESHOLD LIGHT		

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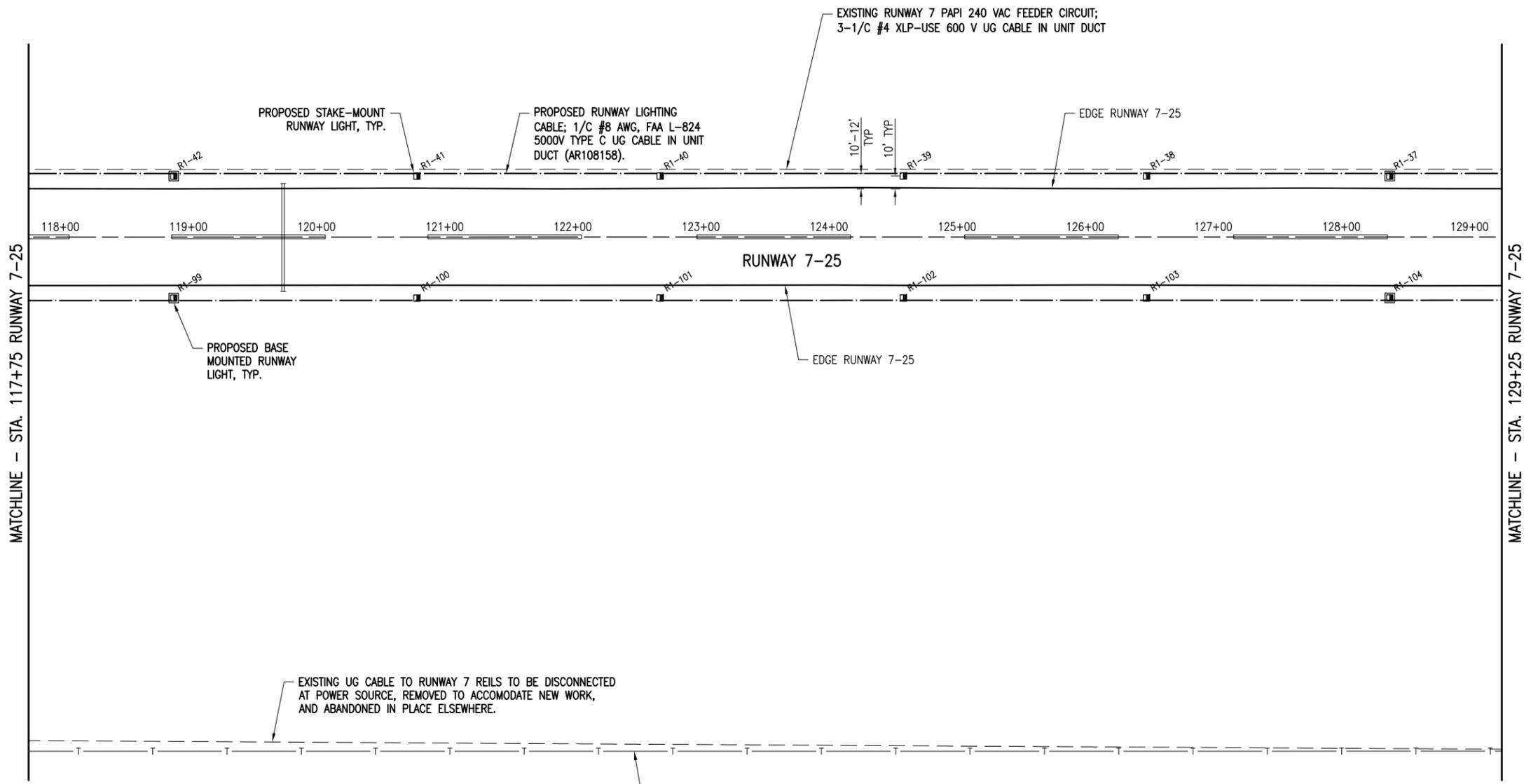
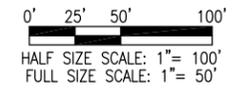
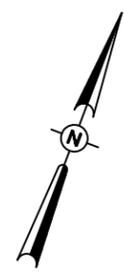
REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	11/30/12
Filename C-142-ELEC.dwg	DRAWN TRR
Scale 1"=50'	12/05/12
Date 01/18/2013	REVIEWED KNL
	12/15/12



EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT
 PROPOSED ELECTRICAL PLAN - STA. 106+25 TO STA. 117+75



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.

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LEGEND

	EXISTING PAVEMENT		PROPOSED REIL
	EXISTING BUILDING		EXISTING REIL
	PROPOSED ELECTRICAL DUCT		PROPOSED TAXI GUIDANCE SIGN
	EXISTING ELECTRICAL DUCT		PROPOSED ELECTRICAL HANDHOLE
	EXISTING ELECTRICAL CABLE		PROPOSED SPLICE CAN
	PROPOSED 1/C #8 AWG, FAA L-824, 5000 VOLT TYPE C UNDERGROUND CABLE IN UNIT DUCT		
	PROPOSED 3-1/C #4 XLP-USE 600V UG CABLE IN UNIT DUCT		
	PROPOSED ELECTRICAL CABLE		
	EXISTING TELEPHONE/COMMUNICATION		
	PROPOSED STAKE MOUNTED TAXIWAY LIGHT		
	PROPOSED BASE MOUNTED TAXIWAY LIGHT		
	PROPOSED STAKE MOUNTED RUNWAY LIGHT		
	PROPOSED BASE MOUNTED RUNWAY LIGHT		
	PROPOSED STAKE MOUNTED THRESHOLD LIGHT		
	PROPOSED BASE MOUNTED THRESHOLD LIGHT		

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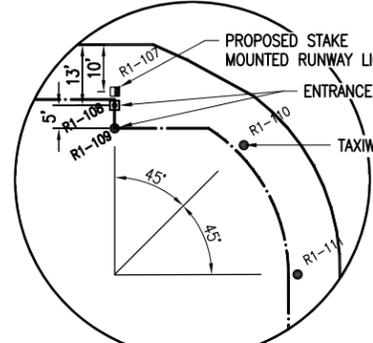
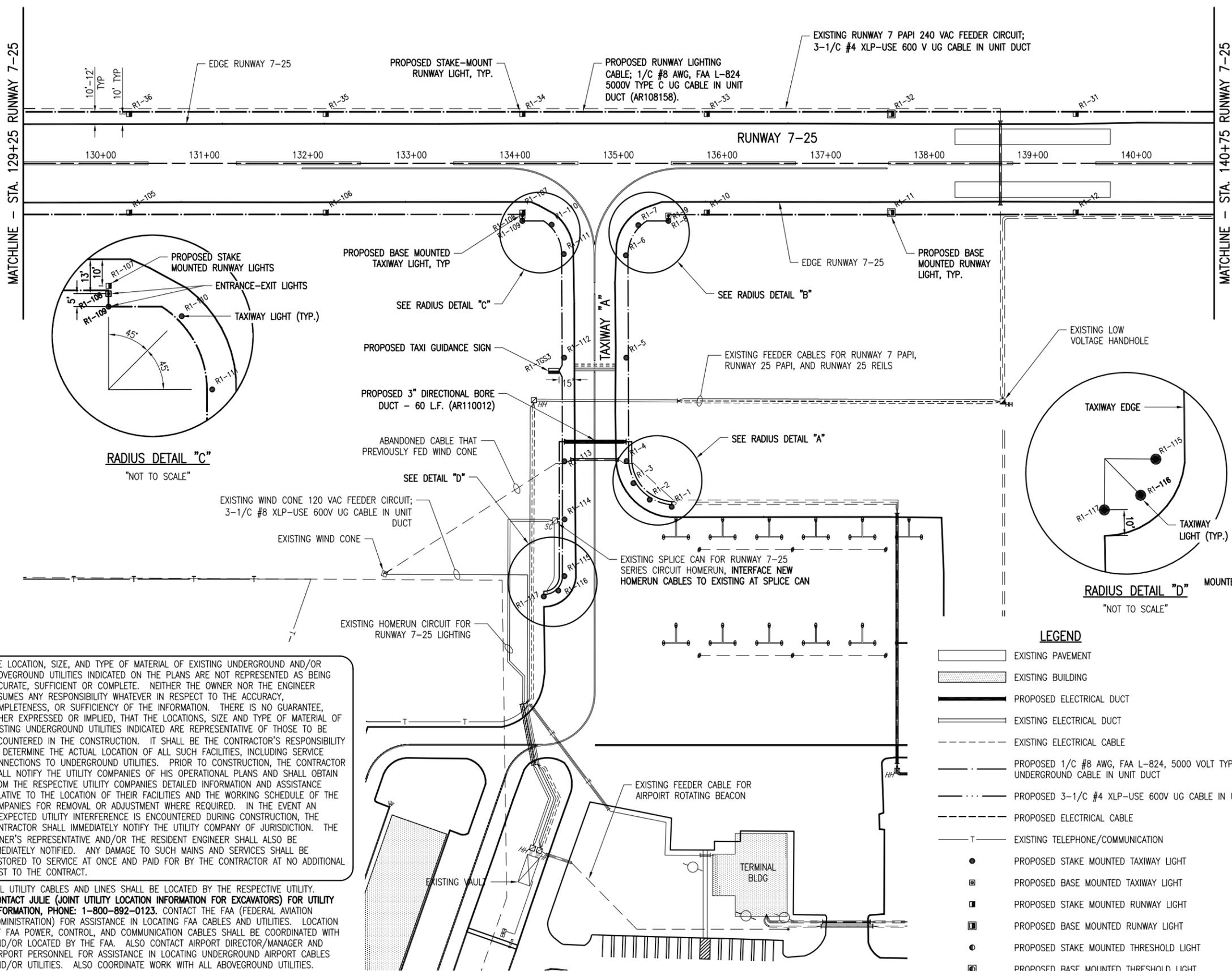
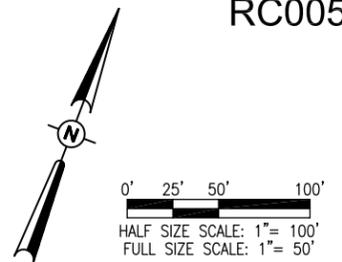
REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS
IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

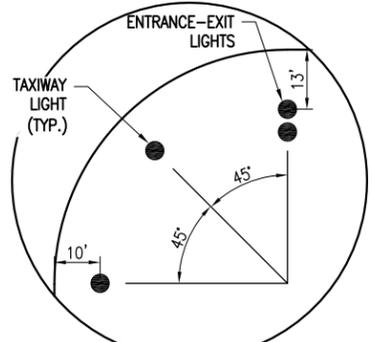
Hanson Proj. No. 09A0141	11/30/12
Filename C-142-ELEC.dwg	DRAWN TRR
Scale 1"=50'	REVIEWED KNL
Date 01/18/2013	DATE 12/08/12
	DATE 12/15/12

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Hanson Professional Services Inc.
1525 S. 1st St.
Springfield, Illinois 62703-2886

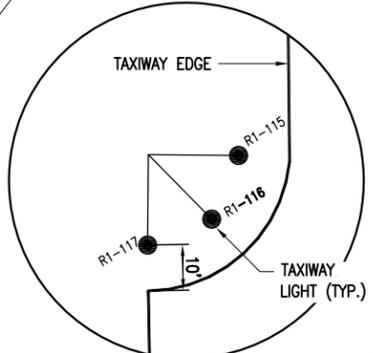
EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT
PROPOSED ELECTRICAL PLAN - STA. 117+75 TO STA. 129+25



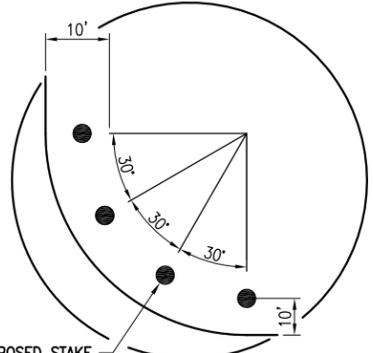
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"NOT TO SCALE"



RADIUS DETAIL "B"
"NOT TO SCALE"



RADIUS DETAIL "D"
"NOT TO SCALE"



RADIUS DETAIL "A"
"NOT TO SCALE"

- LEGEND**
- [Symbol] EXISTING PAVEMENT
 - [Symbol] EXISTING BUILDING
 - [Symbol] PROPOSED ELECTRICAL DUCT
 - [Symbol] EXISTING ELECTRICAL DUCT
 - [Symbol] EXISTING ELECTRICAL CABLE
 - [Symbol] PROPOSED 1/C #8 AWG, FAA L-824, 5000 VOLT TYPE C UNDERGROUND CABLE IN UNIT DUCT
 - [Symbol] PROPOSED 3-1/C #4 XLP-USE 600V UG CABLE IN UNIT DUCT
 - [Symbol] PROPOSED ELECTRICAL CABLE
 - [Symbol] EXISTING TELEPHONE/COMMUNICATION
 - [Symbol] PROPOSED STAKE MOUNTED TAXIWAY LIGHT
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 - [Symbol] PROPOSED BASE MOUNTED THRESHOLD LIGHT
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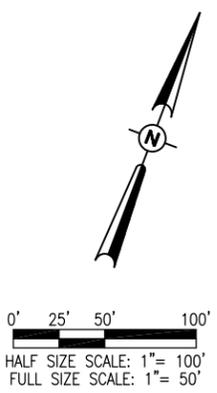
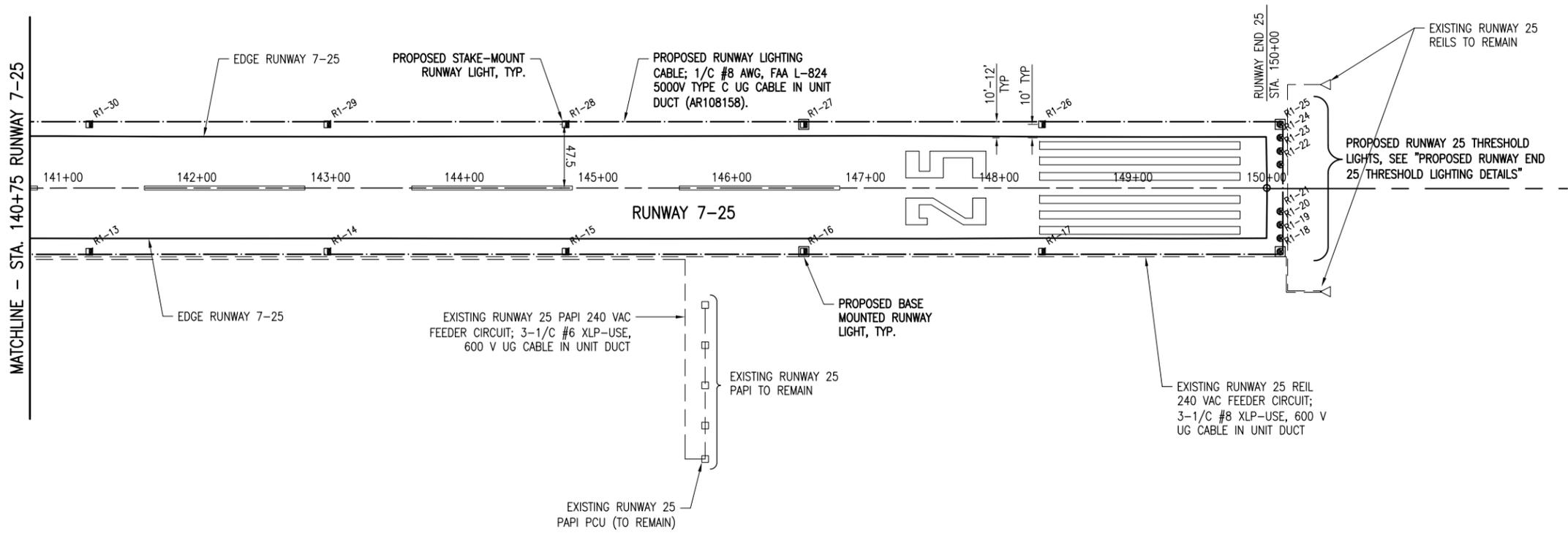
ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS
BLOCK GRANT: 3-17-0087-B15
IL PROJ.: RPJ-4243

LAYOUT	DATE	BY	REVISED

HANSON
Professional Services Inc.
1525 Johnson St.
Springfield, Illinois 62703-2886

EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT
PROPOSED ELECTRICAL PLAN - STA. 129+25 TO STA. 140+75

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LEGEND

- EXISTING PAVEMENT
- EXISTING BUILDING
- PROPOSED ELECTRICAL DUCT
- EXISTING ELECTRICAL DUCT
- EXISTING ELECTRICAL CABLE
- PROPOSED 1/C #8 AWG, FAA L-824, 5000 VOLT TYPE C UNDERGROUND CABLE IN UNIT DUCT
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- PROPOSED SPLICE CAN

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REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	11/30/12
Filename C-142-ELEC.dwg	DRAWN TRR
Scale 1"=50'	REVIEWED KNL
Date 01/18/2013	DATE 12/08/12
	DATE 12/15/12



EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT
 PROPOSED ELECTRICAL PLAN - STA. 140+75 TO STA. 150+00

LIGHT LOCATION TABLE						
TAG NO.	NORTHING	EASTING	STATION	OFFSET	LT/RT	REFERENCE ALIGNMENT
R1-1	1905342.40	2593647.16	135+51.08	330.9	RT	RUNWAY 7-25
R1-2	1905341.29	2593624.88	135+29.85	324.0	RT	RUNWAY 7-25
R1-3	1905350.56	2593604.60	135+14.18	308.1	RT	RUNWAY 7-25
R1-4	1905368.13	2593590.86	135+07.56	286.8	RT	RUNWAY 7-25
R1-5	1905461.17	2593555.23	135+07.24	187.2	RT	RUNWAY 7-25
R1-6	1905553.23	2593519.97	135+06.93	88.6	RT	RUNWAY 7-25
R1-7	1905584.66	2593520.84	135+18.89	59.6	RT	RUNWAY 7-25
R1-8	1905598.75	2593546.55	135+47.92	55.5	RT	RUNWAY 7-25
R1-9	1905603.43	2593544.78	135+47.93	50.5	RT	RUNWAY 7-25
R1-10	1905619.41	2593578.46	135+85.08	47.5	RT	RUNWAY 7-25
R1-11	1905682.58	2593744.99	137+63.19	47.5	RT	RUNWAY 7-25
R1-12	1905745.74	2593911.53	139+41.31	47.5	RT	RUNWAY 7-25
R1-13	1905808.91	2594078.06	141+19.42	47.5	RT	RUNWAY 7-25
R1-14	1905872.08	2594244.59	142+97.52	47.5	RT	RUNWAY 7-25
R1-15	1905935.24	2594411.13	144+75.64	47.5	RT	RUNWAY 7-25
R1-16	1905998.41	2594577.66	146+53.75	47.5	RT	RUNWAY 7-25
R1-17	1906061.58	2594744.20	148+31.87	47.5	RT	RUNWAY 7-25
R1-18	1906124.75	2594910.76	150+10.00	47.5	RT	RUNWAY 7-25
R1-19	1906134.10	2594907.21	150+10.00	37.5	RT	RUNWAY 7-25
R1-20	1906143.45	2594903.66	150+10.00	27.5	RT	RUNWAY 7-25
R1-21	1906152.80	2594900.12	150+10.00	17.5	RT	RUNWAY 7-25
R1-22	1906185.53	2594887.70	150+10.00	17.5	LT	RUNWAY 7-25
R1-23	1906194.88	2594884.16	150+10.00	27.5	LT	RUNWAY 7-25
R1-24	1906204.23	2594880.61	150+10.00	37.5	LT	RUNWAY 7-25
R1-25	1906213.58	2594877.06	150+10.00	47.5	LT	RUNWAY 7-25
R1-26	1906150.40	2594710.51	148+31.87	47.5	LT	RUNWAY 7-25
R1-27	1906087.24	2594543.97	146+53.75	47.5	LT	RUNWAY 7-25
R1-28	1906024.07	2594377.44	144+75.64	47.5	LT	RUNWAY 7-25
R1-29	1905960.90	2594210.90	142+97.52	47.5	LT	RUNWAY 7-25
R1-30	1905897.74	2594044.37	141+19.42	47.5	LT	RUNWAY 7-25
R1-31	1905834.57	2593877.83	139+41.30	47.5	LT	RUNWAY 7-25
R1-32	1905771.40	2593711.30	137+63.19	47.5	LT	RUNWAY 7-25
R1-33	1905708.23	2593544.77	135+85.08	47.5	LT	RUNWAY 7-25
R1-34	1905645.07	2593378.23	134+06.97	47.5	LT	RUNWAY 7-25
R1-35	1905577.74	2593200.74	132+17.14	47.5	LT	RUNWAY 7-25
R1-36	1905510.42	2593023.25	130+27.31	47.5	LT	RUNWAY 7-25
R1-37	1905443.10	2592845.75	128+37.47	47.5	LT	RUNWAY 7-25
R1-38	1905375.77	2592668.26	126+47.64	47.5	LT	RUNWAY 7-25
R1-39	1905308.45	2592490.77	124+57.81	47.5	LT	RUNWAY 7-25
R1-40	1905241.13	2592313.28	122+67.98	47.5	LT	RUNWAY 7-25
R1-41	1905173.80	2592135.78	120+78.14	47.5	LT	RUNWAY 7-25
R1-42	1905106.48	2591958.29	118+88.32	47.5	LT	RUNWAY 7-25
R1-43	1905039.16	2591780.80	116+98.49	47.5	LT	RUNWAY 7-25
R1-44	1904971.83	2591603.31	115+08.66	47.5	LT	RUNWAY 7-25
R1-45	1904904.51	2591425.81	113+18.82	47.5	LT	RUNWAY 7-25
R1-46	1904837.19	2591248.32	111+28.99	47.5	LT	RUNWAY 7-25
R1-47	1904769.86	2591070.83	109+39.16	47.5	LT	RUNWAY 7-25
R1-48	1904702.54	2590893.34	107+49.33	47.5	LT	RUNWAY 7-25
R1-49	1904635.22	2590715.84	105+59.49	47.5	LT	RUNWAY 7-25
R1-50	1904567.89	2590538.35	103+69.66	47.5	LT	RUNWAY 7-25
R1-51	1904500.57	2590360.86	101+79.83	47.5	LT	RUNWAY 7-25
R1-52	1904433.25	2590183.36	99+90.00	47.5	LT	RUNWAY 7-25
R1-53	1904423.90	2590186.91	99+90.00	37.5	LT	RUNWAY 7-25
R1-54	1904414.55	2590190.46	99+90.00	27.5	LT	RUNWAY 7-25
R1-55	1904405.20	2590194.00	99+90.00	17.5	LT	RUNWAY 7-25
R1-56	1904372.47	2590206.42	99+90.00	17.5	RT	RUNWAY 7-25
R1-57	1904363.12	2590209.96	99+90.00	27.5	RT	RUNWAY 7-25
R1-58	1904353.77	2590213.51	99+90.00	37.5	RT	RUNWAY 7-25
R1-59	1904344.42	2590217.06	99+90.00	47.5	RT	RUNWAY 7-25
R1-60	1904327.19	2590223.59	99+90.00	65.9	RT	RUNWAY 7-25
R1-61	1904248.59	2590253.41	1+50.00	27.5	RT	TURNAROUND
R1-62	1904189.48	2590334.65	2+34.08	27.5	LT	TURNAROUND
R1-63	1904161.38	2590351.80	3+20.69	33.6	LT	TURNAROUND
R1-64	1904167.02	2590383.28	3+52.13	27.7	LT	TURNAROUND
R1-65	1904183.67	2590410.58	3+83.56	33.6	LT	TURNAROUND
R1-66	1904216.08	2590404.77	4+70.18	27.5	LT	TURNAROUND
R1-67	1904294.69	2590374.96	5+54.25	27.5	LT	TURNAROUND
R1-68	1904373.30	2590345.14	101+20.00	65.9	RT	RUNWAY 7-25
R1-69	1904386.70	2590336.96	101+17.10	50.5	RT	RUNWAY 7-25
R1-70	1904369.75	2590306.38	100+82.50	55.5	RT	RUNWAY 7-25
R1-71	1904374.42	2590304.61	100+82.50	50.5	RT	RUNWAY 7-25
R1-72	1904362.22	2590272.42	100+48.08	50.5	RT	RUNWAY 7-25
R1-73	1904346.70	2590275.02	100+45.00	65.9	RT	RUNWAY 7-25
R1-74	1904268.09	2590304.83	1+50.00	27.5	LT	TURNAROUND
R1-75	1904169.98	2590283.22	2+34.07	27.5	RT	TURNAROUND

LIGHT LOCATION TABLE						
TAG NO.	NORTHING	EASTING	STATION	OFFSET	LT/RT	REFERENCE ALIGNMENT
R1-76	1904136.85	2590295.79	2+69.50	27.5	RT	TURNAROUND
R1-77	1904112.49	2590313.34	2+85.61	27.3	RT	TURNAROUND
R1-78	1904100.17	2590340.72	3+01.51	27.3	RT	TURNAROUND
R1-79	1904103.19	2590370.59	3+17.63	27.5	RT	TURNAROUND
R1-80	1904115.43	2590402.84	3+52.12	27.5	RT	TURNAROUND
R1-81	1904131.83	2590446.09	3+92.92	28.6	RT	TURNAROUND
R1-82	1904148.23	2590489.33	4+10.68	51.3	RT	TURNAROUND
R1-83	1904191.91	2590472.76	4+28.69	28.5	RT	TURNAROUND
R1-84	1904235.59	2590456.20	4+70.18	27.5	RT	TURNAROUND
R1-85	1904314.19	2590426.38	5+54.24	27.5	RT	TURNAROUND
R1-86	1904392.80	2590396.57	101+75.00	65.9	RT	RUNWAY 7-25
R1-87	1904408.45	2590394.33	101+78.46	50.5	RT	RUNWAY 7-25
R1-88	1904411.74	2590394.55	101+79.83	47.5	RT	RUNWAY 7-25
R1-89	1904415.85	2590427.93	102+12.50	55.5	RT	RUNWAY 7-25
R1-90	1904420.53	2590426.16	102+12.50	50.5	RT	RUNWAY 7-25
R1-91	1904479.07	2590572.04	103+69.66	47.5	RT	RUNWAY 7-25
R1-92	1904546.39	2590749.53	105+59.49	47.5	RT	RUNWAY 7-25
R1-93	1904613.72	2590927.03	107+49.33	47.5	RT	RUNWAY 7-25
R1-94	1904681.04	2591104.52	109+39.16	47.5	RT	RUNWAY 7-25
R1-95	1904748.36	2591282.01	111+28.99	47.5	RT	RUNWAY 7-25
R1-96	1904815.69	2591459.50	113+18.82	47.5	RT	RUNWAY 7-25
R1-97	1904883.01	2591637.00	115+08.66	47.5	RT	RUNWAY 7-25
R1-98	1904950.33	2591814.49	116+98.48	47.5	RT	RUNWAY 7-25
R1-99	1905017.66	2591991.98	118+88.32	47.5	RT	RUNWAY 7-25
R1-100	1905084.98	2592169.47	120+78.14	47.5	RT	RUNWAY 7-25
R1-101	1905152.30	2592346.97	122+67.98	47.5	RT	RUNWAY 7-25
R1-102	1905219.63	2592524.46	124+57.81	47.5	RT	RUNWAY 7-25
R1-103	1905286.95	2592701.95	126+47.64	47.5	RT	RUNWAY 7-25
R1-104	1905354.27	2592879.44	128+37.47	47.5	RT	RUNWAY 7-25
R1-105	1905421.60	2593056.94	130+27.31	47.5	RT	RUNWAY 7-25
R1-106	1905488.92	2593234.43	132+17.14	47.5	RT	RUNWAY 7-25
R1-107	1905556.24	2593411.92	134+06.97	47.5	RT	RUNWAY 7-25
R1-108	1905553.42	2593412.94	134+06.92	50.5	RT	RUNWAY 7-25
R1-109	1905548.75	2593414.72	134+06.93	55.5	RT	RUNWAY 7-25
R1-110	1905555.33	2593442.42	134+35.16	59.2	RT	RUNWAY 7-25
R1-111	1905533.13	2593463.42	134+46.92	87.4	RT	RUNWAY 7-25
R1-112	1905439.89	2593499.13	134+47.24	187.2	RT	RUNWAY 7-25
R1-113	1905346.67	2593534.83	134+47.56	287.0	RT	RUNWAY 7-25
R1-114	1905294.34	2593554.68	134+47.56	343.0	RT	RUNWAY 7-25
R1-115	1905243.24	2593573.96	134+47.56	397.6	RT	RUNWAY 7-25
R1-116	1905228.15	2593573.39	134+41.58	411.5	RT	RUNWAY 7-25
R1-117	1905217.89	2593562.30	134+27.58	417.2	RT	RUNWAY 7-25

TAXI GUIDANCE SIGN SCHEDULE			
SIGN NUMBERS	LOCATION	SIDE A	SIDE B
R1-TGS1	INTERSECTION OF TAXIWAY TURNAROUND AND RUNWAY END 7 (AT HOLD LINE)	7	BLANK
R1-TGS2	INTERSECTION OF TAXIWAY TURNAROUND AND RUNWAY 7-25 (AT HOLD LINE)	7-25	BLANK
R1-TGS3	INTERSECTION OF TAXIWAY TO RAMP AND RUNWAY 7-25 (AT HOLD LINE)	A 7-25	RAMP ↑

TAXI GUIDANCE SIGN SCHEDULE

- A** TYPE L-858L LOCATION SIGN - YELLOW LEGEND AND BORDER ON A BLACK BACKGROUND
- 7-25** TYPE L-858R MANDATORY INSTRUCTION SIGN - BLACK OUTLINE ON OUTSIDE EDGE OF WHITE LEGEND ON A RED BACKGROUND
- RAMP ↑** TYPE L-858Y DIRECTION, DESTINATION, AND BOUNDARY SIGN - BLACK LEGEND ON A YELLOW BACKGROUND
- BLANK** BLANK - BLACK BACKGROUND

TAXI GUIDANCE SIGN NOTES

- THE PROPOSED TAXI GUIDANCE SIGNS SHALL CONFORM TO ADVISORY CIRCULAR 150/5345 44J (OR LATEST ISSUE IN FORCE) AND BE FAA-APPROVED FOR TYPE L-858Y OR L-858Y(L) DIRECTION, DESTINATION, AND BOUNDARY SIGNS (BLACK LEGEND ON YELLOW BACKGROUND); TYPE L-858R OR L-858R(L) MANDATORY INSTRUCTION SIGN (BLACK OUTLINE ON OUTSIDE EDGE OF WHITE LEGEND ON RED BACKGROUND); AND/OR TYPE L-858L OR L-858L(L) LOCATION SIGN (YELLOW LEGEND AND BORDER ON BLACK BACKGROUND).
- THE SIGNS SHALL BE SIZE 1, 18-IN. SIGN FACE WITH A 12-IN. LEGEND; STYLE 2, POWERED FROM A 4.8 TO 6.6 AMP SERIES LIGHTING CIRCUIT; CLASS 2, FOR OPERATION FROM -40 DEGREES F TO 131 DEGREES F; MODE 2, TO WITHSTAND WIND LOADS OF 200 M.P.H., BASE-MOUNTED, DOUBLE-SIDED, AS SPECIFIED ON THE PLANS.
- THE PROPOSED TAXI GUIDANCE SIGNS SHALL BE LOCATED SUCH THAT THE CLOSEST SIDE OF THE SIGN IS 15' FROM THE PAVEMENT EDGE.
- THE PROPOSED TAXI GUIDANCE SIGNS WILL BE PAID FOR UNDER THE FOLLOWING ITEMS:
 AR125441 TAXI GUIDANCE SIGN, 1 CHARACTER _____ PER EACH.
 AR125444 TAXI GUIDANCE SIGN, 4 CHARACTER _____ PER EACH.
 AR125445 TAXI GUIDANCE SIGN, 5 CHARACTER _____ PER EACH.

 AND ADDITIVE ALTERNATE FOR UPGRADE TO LED TYPE ILLUMINATION
 AS800410 1 CHARACTER SIGN LED UPGRADE _____ PER EACH.
 AS800412 4 CHARACTER SIGN LED UPGRADE _____ PER EACH.
 AS800593 5 CHARACTER SIGN LED UPGRADE _____ PER EACH.

LIGHT LENS SCHEDULE			
LIGHT NUMBERS	LENS	ORIENTATION	FIXTURE TYPE
R1-1 TO R1-9	BLUE	---	L-861T OR L-861T(L)
R1-1 TO R1-17	CLEAR WHITE/YELLOW	YELLOW SIDE FACING WEST (TOWARD RUNWAY 7 APPROACH)	L-861 OR L-861(L)
R1-18 TO R1-25	RED/GREEN	GREEN SIDE FACING EAST (TOWARD RUNWAY 25 APPROACH)	L-861E OR L-861E(L)
R1-26 TO R1-36	CLEAR WHITE/YELLOW	YELLOW SIDE FACING WEST (TOWARD RUNWAY 7 APPROACH)	L-861 OR L-861(L)
R1-37 TO R1-41	CLEAR WHITE	---	L-861 OR L-861(L)
R1-42 TO R1-51	CLEAR WHITE/YELLOW	YELLOW SIDE FACING EAST (TOWARD RUNWAY 25 APPROACH)	L-861 OR L-861(L)
R1-52 TO R1-59	RED/GREEN	GREEN SIDE FACING WEST (TOWARD RUNWAY 7 APPROACH)	L-861E OR L-861E(L)
R1-60 TO R1-87	BLUE	---	L-861T OR L-861T(L)
R1-88	CLEAR WHITE/YELLOW	YELLOW SIDE FACING EAST (TOWARD RUNWAY 25 APPROACH)	L-861 OR L-861(L)
R1-89 TO R1-90	BLUE	---	L-861T OR L-861T(L)
R1-91 TO R1-99	CLEAR WHITE/YELLOW	YELLOW SIDE FACING EAST (TOWARD RUNWAY 25 APPROACH)	L-861 OR L-861(L)
R1-100 TO R1-104	CLEAR WHITE	---	L-861 OR L-861(L)
R1-105 TO R1-107	CLEAR WHITE/YELLOW	YELLOW SIDE FACING WEST (TOWARD RUNWAY 7 APPROACH)	L-861 OR L-861(L)
R1-108 TO R1-117	BLUE	---	L-861T OR L-861T(L)

REVISION

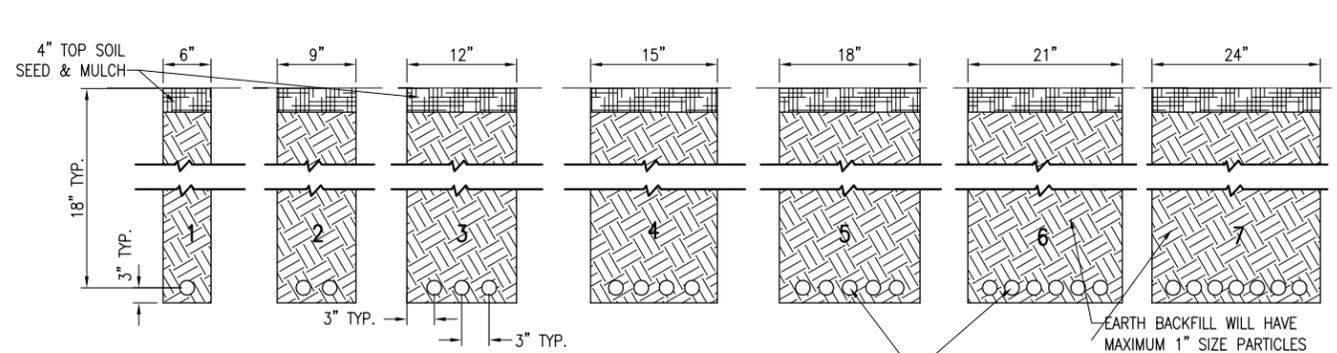
DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

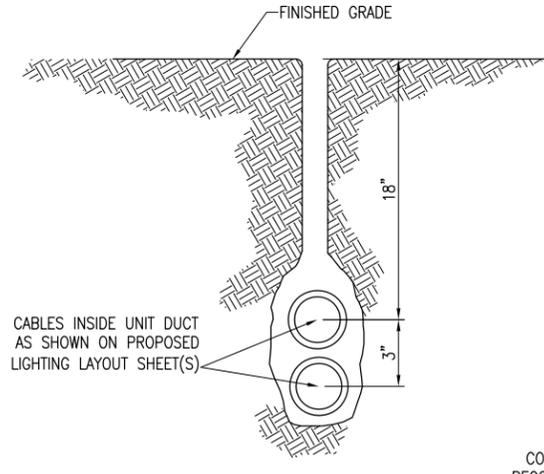
BLOCK GRANT: 3-17-0087-B15

IL PROJ.: RPJ-4243

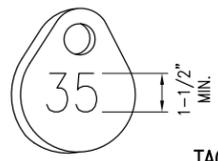
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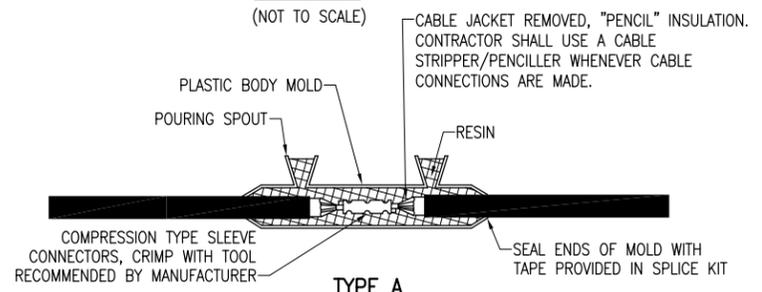
NOTES:
 DETAIL NUMBERS INDICATE NO. OF CABLES.
 TRENCHES WITH MORE THAN SEVEN CABLES SHALL BE INCREASED 3" IN WIDTH FOR EACH ADDITIONAL CABLE; IF SPECIFIED ON PLANS TWO PARALLEL TRENCHES MAY BE CONSTRUCTED.
 DEPTH OF TRENCHES SHALL BE AS SHOWN ABOVE UNLESS OTHERWISE SPECIFIED ON THE PLANS.
 ALL DISTURBED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. COST IS INCIDENTAL TO TRENCH.



PLOWED CABLE
(NOT TO SCALE)



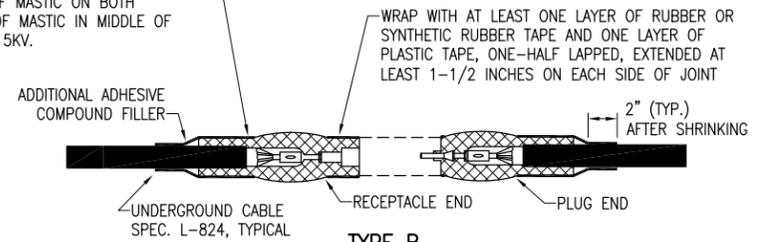
TAG DETAIL
(NOT TO SCALE)



TYPE A

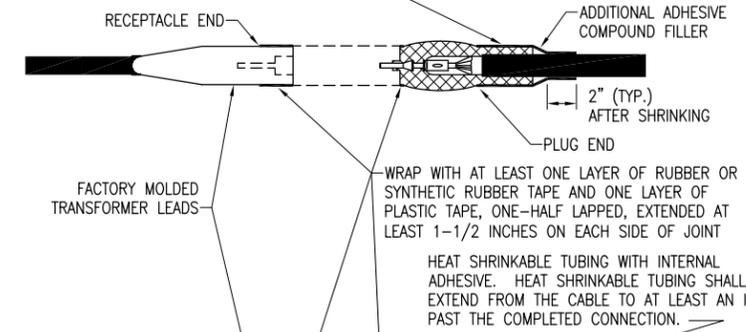
CONTINUOUS HEAT SHRINK TUBING PLACED OVER THE ENTIRE L-823 CONNECTOR(S) BOTH MALE AND FEMALE AT ALL 5KV JUNCTIONS. THE HEAT SHRINK TUBING SHALL BE APPROXIMATELY 18" IN LENGTH WITH 6 INCHES OF MASTIC ON BOTH ENDS AND VOID OF MASTIC IN MIDDLE OF TUBE RATED FOR 5KV.

FOR SPLICES IN LOW VOLTAGE CABLE (600V) HOMERUNS FOR EXTENSIONS TO EXISTING LOW VOLTAGE CABLES ONLY. TYPE A SPLICES SHALL BE MADE IN SPLICE CANS, HANDHOLES, MANHOLES, OR JUNCTIONS BOXES



TYPE B

FOR SPLICES AT JUNCTION OF HOMERUN WITH LOOP CIRCUIT AND FOR SPLICES IN HOMERUNS TO EXISTING CABLES
 HEAT SHRINKABLE TUBING WITH INTERNAL ADHESIVE. HEAT SHRINKABLE TUBING SHALL EXTEND FROM THE CABLE TO AT LEAST AN INCH PAST THE COMPLETED CONNECTION.



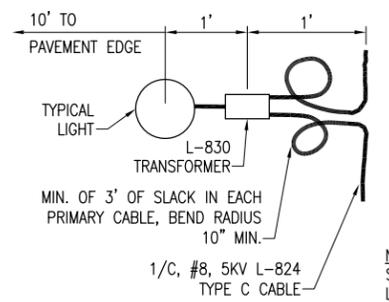
TYPE C

FOR SPLICES AT RUNWAY AND TAXIWAY LIGHTS
 NOTES:
 SEE PROPOSED LIGHTING LAYOUT SHEET(S) FOR SPLICE TYPE.
 INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE.

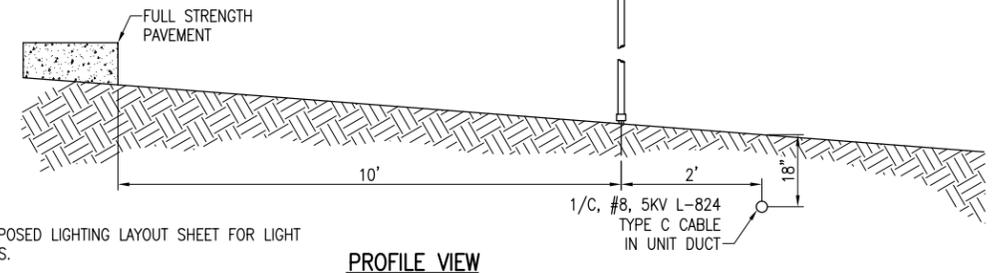
CABLE SPLICES
(NOT TO SCALE)

PER FAA AC 150/5340-30G DESIGN AND INSTALLATION DETAILS FOR AIRPORT VISUAL AIDS, A LIGHT BASE GROUND MUST BE INSTALLED AT EACH LIGHT FIXTURE. A LIGHT BASE GROUND SHALL BE INSTALLED AT EACH STAKE MOUNTED LIGHT AND EACH TRANSFORMER BASE/LIGHT CAN ASSOCIATED WITH RUNWAY LIGHTS, TAXIWAY LIGHTS, AND LIGHTED TAXI GUIDANCE SIGNS. THE LIGHT BASE GROUND SHALL BE A #6 AWG BARE COPPER CONDUCTOR BONDED TO THE GROUND LUG ON THE RESPECTIVE L-867 TRANSFORMER BASE/LIGHT CAN OR MOUNTING STAKE AND A 3/4-INCH DIAMETER BY 10-FOOT LONG (MINIMUM) UL LISTED COPPER CLAD GROUND ROD.

CABLE TRENCHES
(NOT TO SCALE)

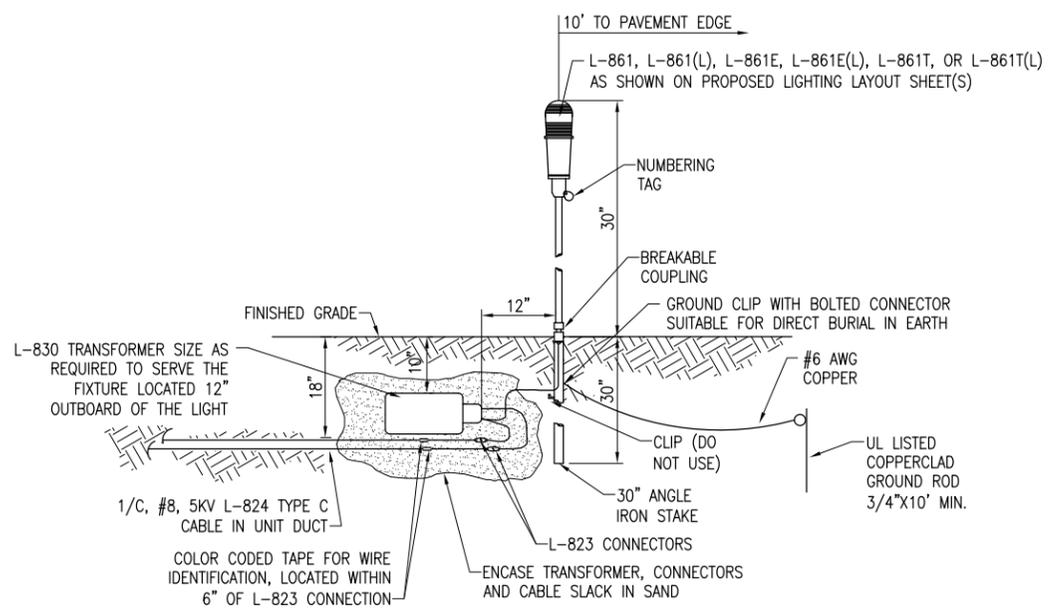


PLAN VIEW

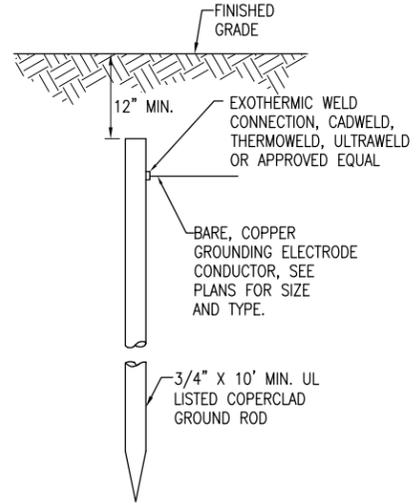


PROFILE VIEW

LIGHT AND CABLE INSTALLATION DETAIL
(NOT TO SCALE)



MEDIUM INTENSITY LIGHT - STAKE MOUNTED
(NOT TO SCALE)



GROUND ROD
(NOT TO SCALE)

NOTES:
 TYPE AND MINIMUM NUMBER OF GROUND RODS SHALL BE AS SPECIFIED ON THE PLAN.
 THE RESISTANCE TO GROUND OF THE GROUNDING SYSTEM SHALL NOT EXCEED 25 OHMS.
 COST OF GROUND RODS IS INCIDENTAL TO THE ASSOCIATED ITEMS REQUIRING GROUNDING UNLESS OTHERWISE SPECIFIED.

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REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 BLOCK GRANT: 3-17-0087-B15
 IL PROJ.: RPJ-4243

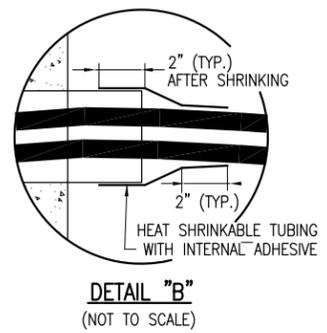
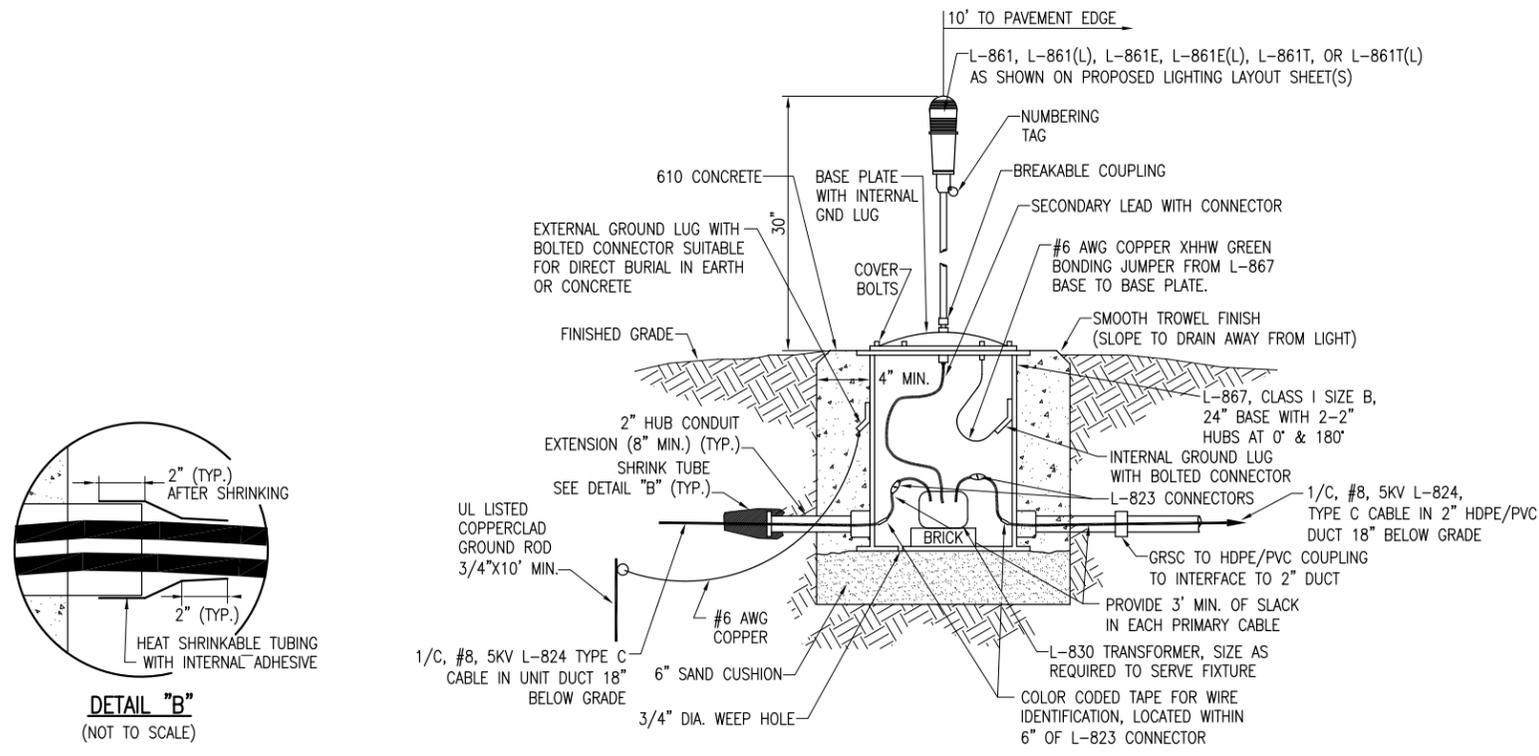
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Date 01/18/2013	KNL
LAYOUT	12/18/12
DRAWN	11/29/12
REVIEWED	12/18/12

HANSON
 Hanson Professional Services Inc. 2012
 1525 S. Main Street
 Springfield, Illinois 62703-2886

EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT
 ELECTRICAL DETAILS
 SHEET 1

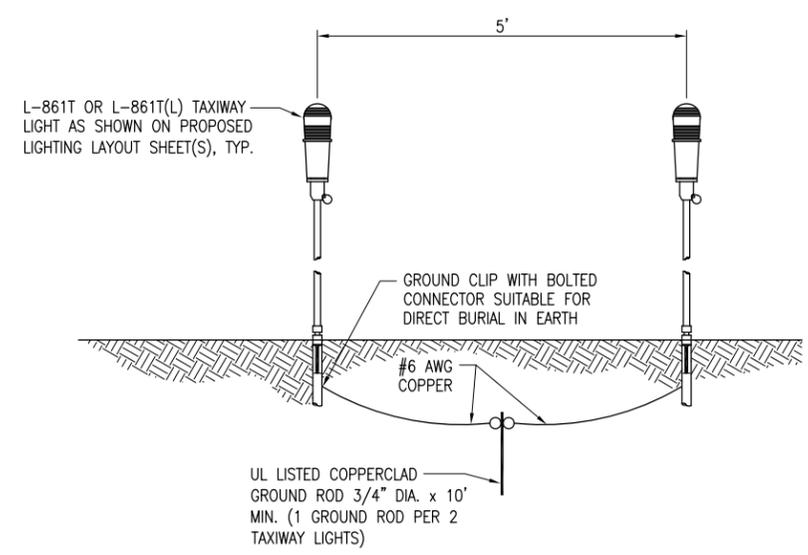
NOTES

1. GROUNDING FOR RUNWAY LIGHTS, TAXIWAY LIGHTS, AND LIGHTED TAXI GUIDANCE SIGNS SHALL BE AS DETAILED ON THE PLANS AND AS SPECIFIED HEREIN. PER FAA AC 150/5340-30G DESIGN AND INSTALLATION DETAILS FOR AIRPORT VISUAL AIDS, CHAPTER 12, PART 12.6; A GROUND MUST BE INSTALLED AT EACH LIGHT FIXTURE. THE PURPOSE OF THE LIGHT BASE GROUND IS TO PROVIDE A DEGREE OF PROTECTION FOR MAINTENANCE PERSONNEL FROM POSSIBLE CONTACT WITH AN ENERGIZED LIGHT BASE OR MOUNTING STAKE THAT MAY RESULT FROM A SHORTED POWER CABLE OR ISOLATION TRANSFORMER. A LIGHT BASE GROUND SHALL BE INSTALLED AT EACH TRANSFORMER BASE/LIGHT CAN ASSOCIATED WITH RUNWAY LIGHTS, TAXIWAY LIGHTS, AND LIGHTED TAXI GUIDANCE SIGNS. A LIGHT BASE GROUND SHALL ALSO BE INSTALLED AT EACH STAKE MOUNTED LIGHT FIXTURE. A LIGHT BASE GROUND SHALL BE INSTALLED AND CONNECTED TO THE METAL FRAME OF EACH TAXI GUIDANCE SIGN AS DETAILED ON THE PLANS AND IN ACCORDANCE WITH THE RESPECTIVE TAXI GUIDANCE SIGN MANUFACTURER RECOMMENDATIONS. THE LIGHT BASE GROUND SHALL BE A #6 AWG BARE COPPER CONDUCTOR BONDED TO THE GROUND LUG ON THE RESPECTIVE L-867 TRANSFORMER BASE/LIGHT CAN OR MOUNTING STAKE AND A 3/4-INCH DIAMETER BY 10-FOOT LONG (MINIMUM) UL LISTED COPPER CLAD GROUND ROD. CONNECTIONS TO GROUND LUGS ON THE L-867 TRANSFORMER BASE/LIGHT CAN OR MOUNTING STAKE SHALL BE WITH A UL LISTED GROUNDING CONNECTOR. CONNECTIONS TO GROUND RODS SHALL BE MADE WITH EXOTHERMIC WELD TYPE CONNECTORS, CADWELD BY ERICO PRODUCTS, INC., SOLON, OHIO, (PHONE: 800-248-9353), THERMOWELD BY CONTINENTAL INDUSTRIES, INC., TULSA, OKLAHOMA (PHONE: 918-663-1440), ULTRAWELD BY HARGER, GRAYSLAKE, ILLINOIS (PHONE: 800-842-7437), OR APPROVED EQUAL. EXOTHERMIC WELD CONNECTIONS SHALL BE INSTALLED IN CONFORMANCE WITH THE RESPECTIVE MANUFACTURER'S DIRECTIONS USING MOLDS AS REQUIRED FOR EACH RESPECTIVE APPLICATION. BOLTED CONNECTIONS WILL NOT BE PERMITTED AT GROUND RODS. TOP OF GROUND RODS SHALL BE BURIED 12 INCHES MINIMUM BELOW GRADE, UNLESS SPECIFIED OTHERWISE HEREIN, FOR RESPECTIVE APPLICATIONS
2. FOR BASE MOUNTED LIGHT FIXTURES THE LIGHT FIXTURE MUST BE BONDED TO THE LIGHT BASE INTERNAL GROUND LUG VIA A #6 AWG STRANDED COPPER WIRE RATED FOR 600 VOLTS WITH GREEN XHHW OR USE INSULATION. THE GROUND WIRE LENGTH MUST BE SUFFICIENT TO ALLOW THE REMOVAL OF THE LIGHT FIXTURE FROM THE LIGHT BASE FOR ROUTINE MAINTENANCE. SEE THE LIGHT FIXTURE MANUFACTURER'S INSTRUCTIONS FOR PROPER METHODS OF ATTACHING A BONDING WIRE.
3. FOR TAXIWAY LIGHTS THAT ARE SPACED WITH LESS THAN 10 FEET OF SEPARATION BETWEEN THEM PROVIDE ONE 3/4-INCH DIAMETER BY 10-FOOT LONG GROUND ROD PER TWO ADJACENT TAXIWAY LIGHTS.
4. STEEL USED TO MANUFACTURE GROUND RODS SHALL BE 100% DOMESTIC STEEL.
5. CLEAN ALL METAL SURFACES BEFORE MAKING GROUND CONNECTIONS. METALLIC SURFACES TO BE JOINED SHALL BE PREPARED BY THE REMOVAL OF ALL NON-CONDUCTIVE MATERIAL PER 2011 NATIONAL ELECTRICAL CODE ARTICLE 250-12.
6. PER FAA 150/5430-30G THE RESISTANCE TO THE GROUND OF THE RESPECTIVE MOUNTING STAKE OR LIGHT BASE (WITH GROUND RCD CONNECTED) MUST BE 25 OHMS OR LESS.
7. FOR EACH GROUNDING ELECTRODE SYSTEM THE CONTRACTOR SHALL TEST THE MADE ELECTRODE GROUND SYSTEM WITH AN INSTRUMENT SPECIFICALLY DESIGNED FOR TESTING GROUNDING SYSTEMS. TEST RESULTS SHALL BE RECORDED FOR EACH GROUNDING ELECTRODE SYSTEM. IF GROUND RESISTANCE EXCEEDS 25 OHMS, CONTACT THE PROJECT ENGINEER FOR FURTHER DIRECTION. COPIES OF THE GROUND SYSTEM TEST RESULTS SHALL BE FURNISHED TO THE RESIDENT PROJECT REPRESENTATIVE/RESIDENT ENGINEER.



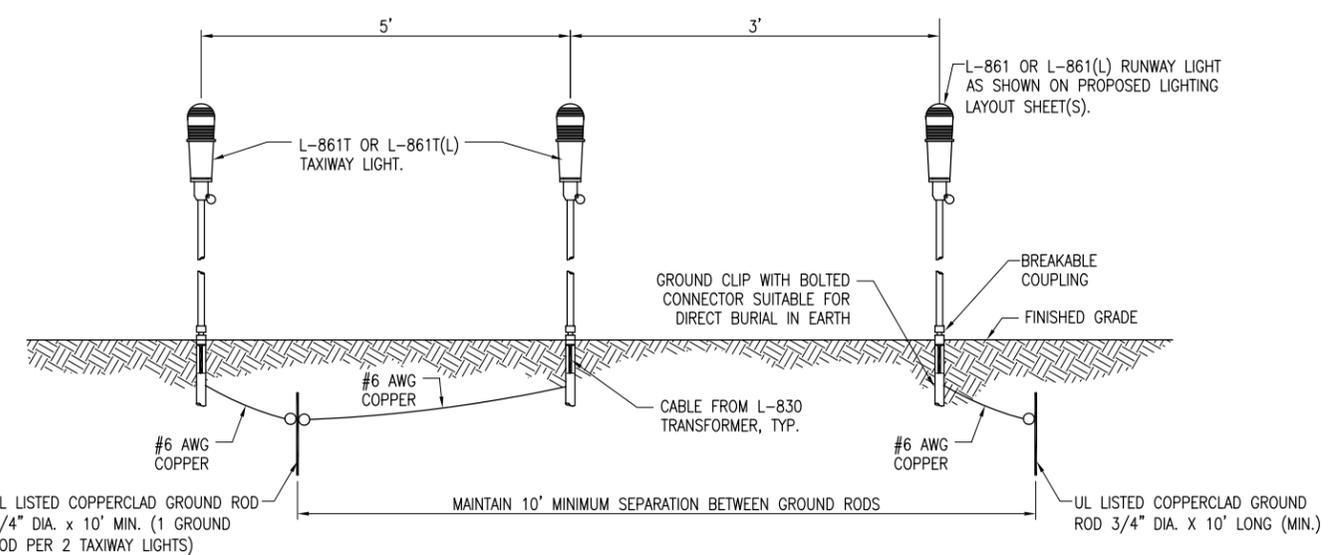
MEDIUM/HIGH INTENSITY LIGHT – BASE MOUNTED

(NOT TO SCALE)
 NOTE: SEE PROPOSED ELECTRICAL PLANS FOR LOCATIONS OF BASE MOUNTED LIGHTS WITH 2" DUCT INTERFACE AND LOCATIONS WITH CABLE IN UNIT DUCT INTERFACE.



GROUNDING DETAIL FOR ADJACENT TAXIWAY LIGHTS

(NOT TO SCALE)



GROUNDING DETAIL FOR ADJACENT RUNWAY AND TAXIWAY LIGHTS

(NOT TO SCALE)

REVISION	
DATE	

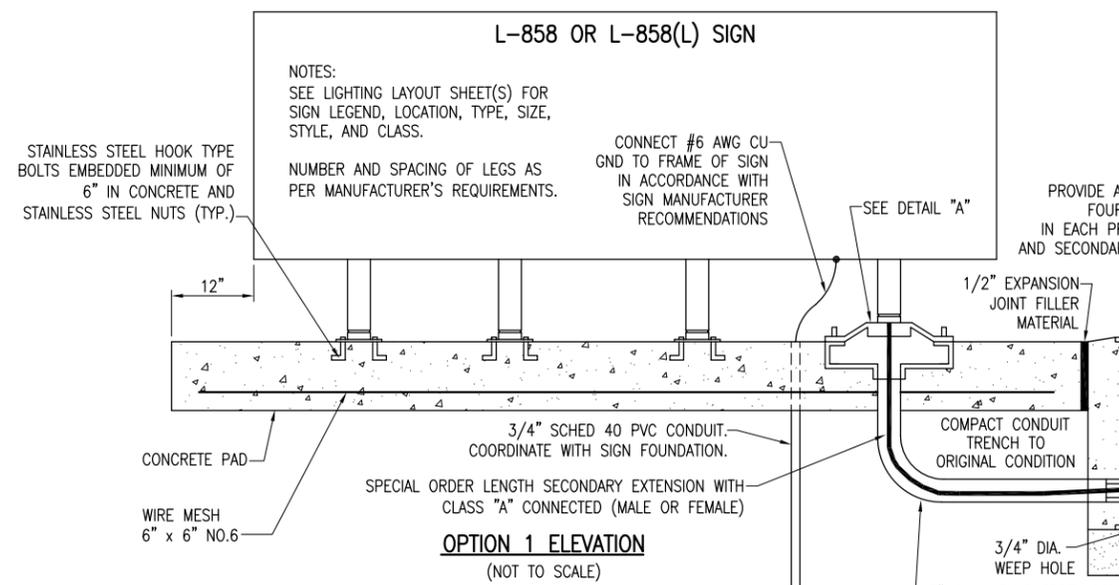
ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
 BLOCK GRANT: 3-17-0087-B15
 IL PROJ.: RPJ-4243

Hanson Proj. No. 09A0141	11/29/12
Filename: E-502-DETL.dwg	KNL
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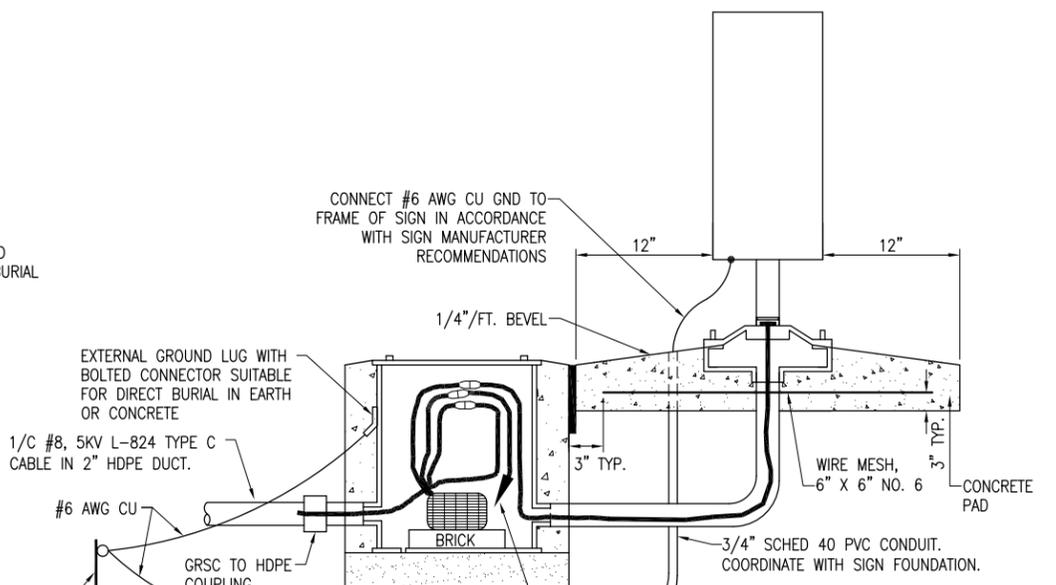


EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT
 ELECTRICAL DETAILS SHEET 2

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OPTION 1 ELEVATION
(NOT TO SCALE)



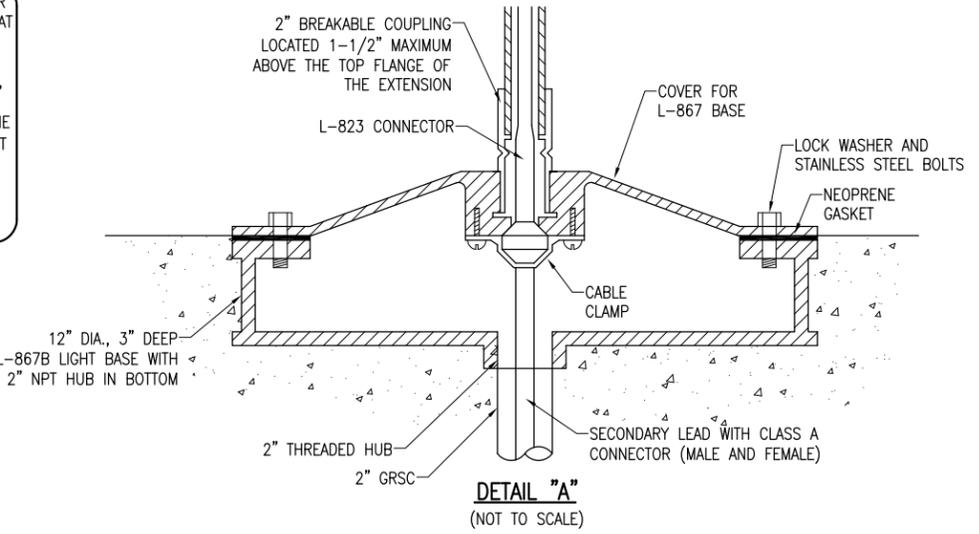
OPTION 2 ELEVATION
(NOT TO SCALE)

1/2" #8, 5 KV, L-824 TYPE C CABLE. COLOR CODED TAPE FOR WIRE IDENTIFICATION LOCATED WITHIN 6" OF L-823 CONNECTOR. SEE PLAN VIEW FOR CABLE ENTRANCE & EXIT.

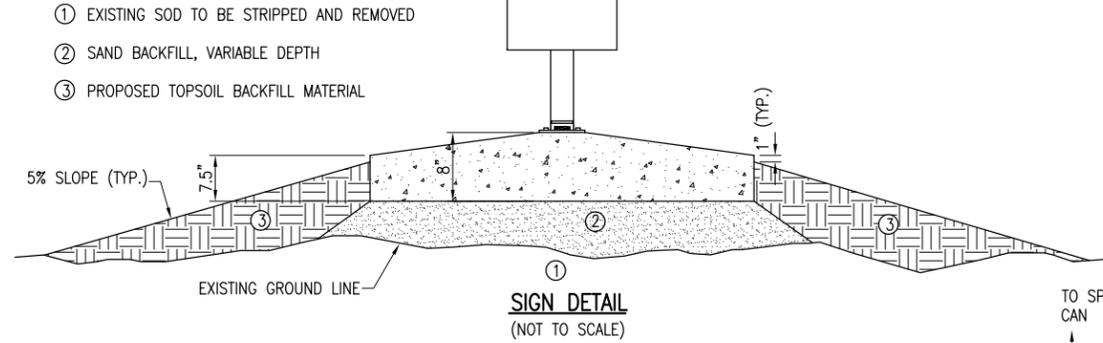
PER FAA AC 150/5340-30G DESIGN AND INSTALLATION DETAILS FOR AIRPORT VISUAL AIDS, A LIGHT BASE GROUND MUST BE INSTALLED AT EACH LIGHT FIXTURE. A LIGHT BASE GROUND SHALL BE INSTALLED AT EACH STAKE MOUNTED LIGHT AND EACH TRANSFORMER BASE/LIGHT CAN ASSOCIATED WITH RUNWAY LIGHTS, TAXIWAY LIGHTS, AND LIGHTED TAXI GUIDANCE SIGNS. THE LIGHT BASE GROUND SHALL BE A #6 AWG BARE COPPER CONDUCTOR CONNECTED TO THE GROUND LUG ON THE RESPECTIVE L-867 TRANSFORMER BASE/LIGHT CAN, TAXI SIGN FRAME, OR MOUNTING STAKE AND A 3/4-INCH DIAMETER BY 10-FOOT LONG (MINIMUM) UL LISTED COPPER CLAD GROUND ROD. ALSO BOND THE SIGN FRAME TO THE GROUND ROD WITH A #6 AWG BARE COPPER CONDUCTOR.

GENERAL NOTES

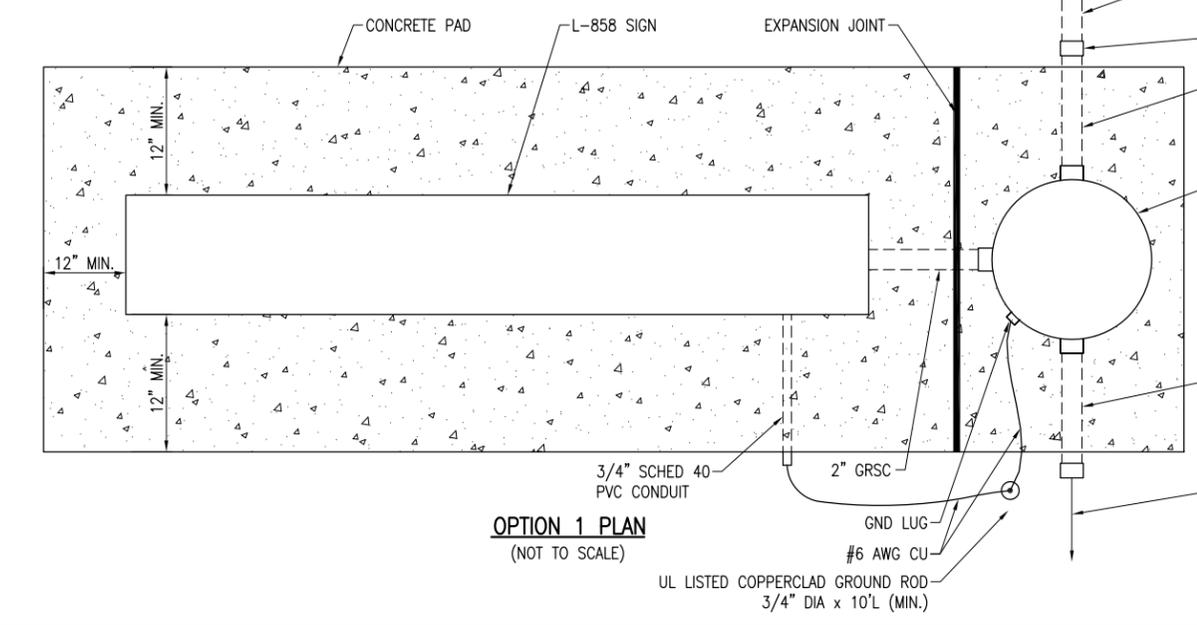
- SEE LIGHTING LAYOUT SHEET FOR SIGN LEGEND, LOCATION, TYPE, SIZE, STYLE, AND CLASS.
- SEE ELECTRICAL NOTES SHEETS.



DETAIL "A"
(NOT TO SCALE)



SIGN DETAIL
(NOT TO SCALE)



OPTION 1 PLAN
(NOT TO SCALE)

1/2" #8, 5KV L-824 TYPE C CABLE IN 2" HDPE/PVC DUCT OR 3/4" UNIT DUCT, AS SHOWN ON PLANS

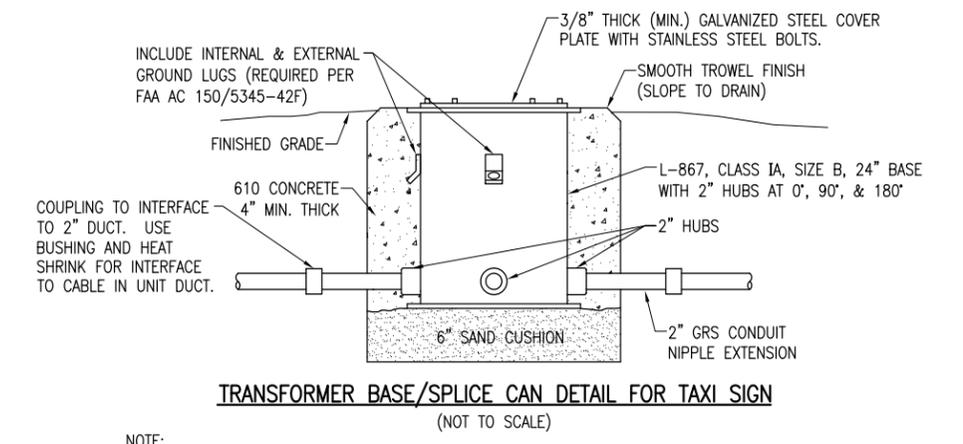
COUPLING FOR DUCT INTERFACE

2" GRSC, COORDINATE HUB LOCATION FOR RESPECTIVE SITE CONDITIONS

L-867 TRANSFORMER BASE CAN

2" GRSC

1/2" #8, 5KV L-824 TYPE C CABLE IN 3/4" UNIT DUCT OR 2" HDPE/PVC DUCT. PROVIDE HEAT SHRINK TUBING FOR INTERFACE TO CABLE IN UNIT DUCT.



TRANSFORMER BASE/SPLICE CAN DETAIL FOR TAXI SIGN
(NOT TO SCALE)

NOTE:
FOR THE PURPOSE OF ENHANCING SAFETY, EACH BASE MUST HAVE INSTALLED, BY THE MANUFACTURER, AN INTERNAL AND EXTERNAL GROUND STRAP THAT IS AVAILABLE FOR THE PURPOSE OF ATTACHING A GROUND LUG THAT IS CONNECTED TO AN EARTH GROUND OR A SAFETY GROUND CONDUCTOR INSTALLED WITH THE RESPECTIVE CIRCUIT. FOR AIRPORT PROJECTS RECEIVING FEDERAL FUNDS THIS REQUIREMENT IS MANDATORY PER FAA AC 150/5345-42F.

REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

IL PROJ.: RPJ-4243

BLOCK GRANT: 3-17-0087-B15

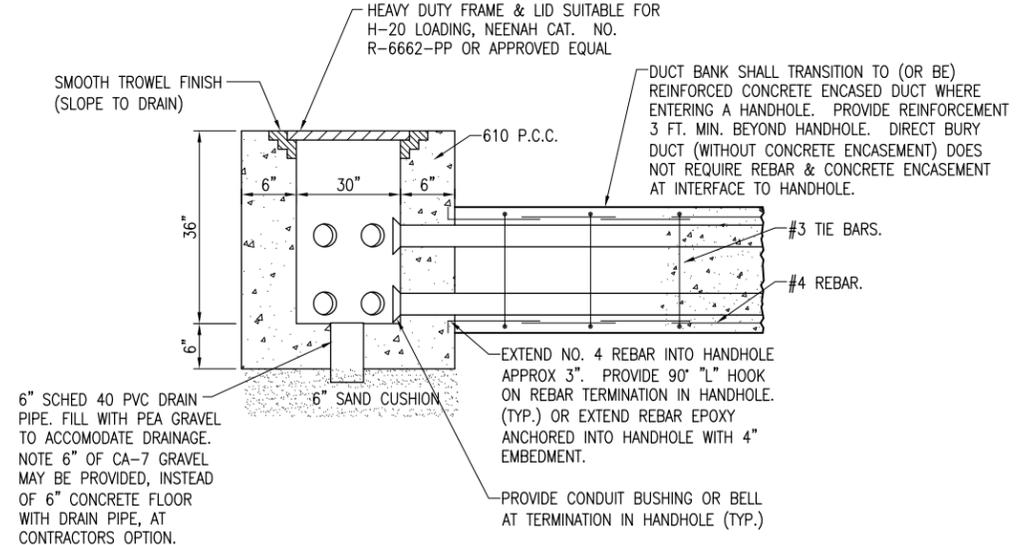
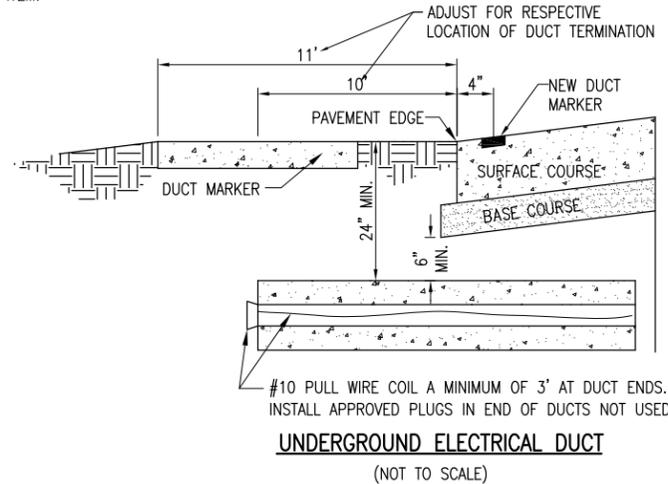
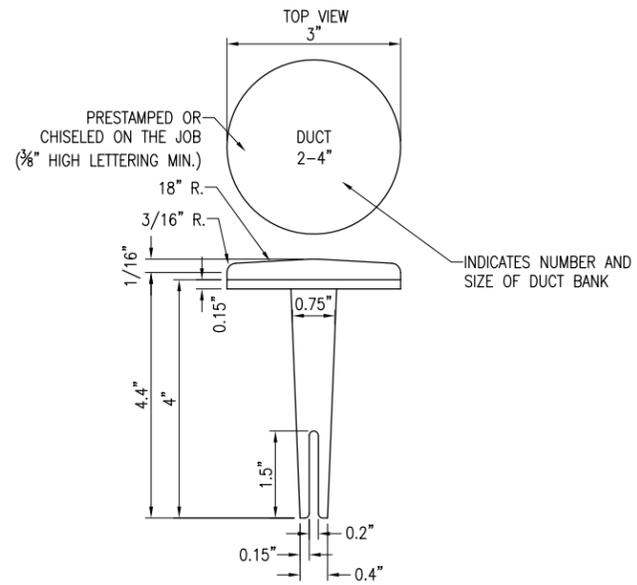
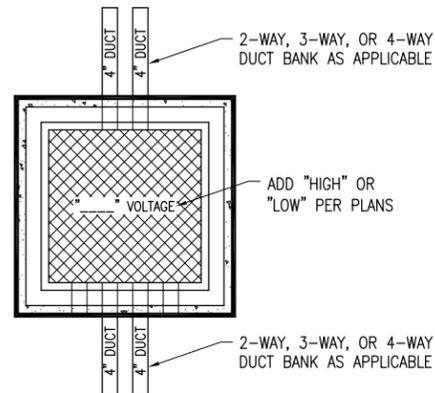
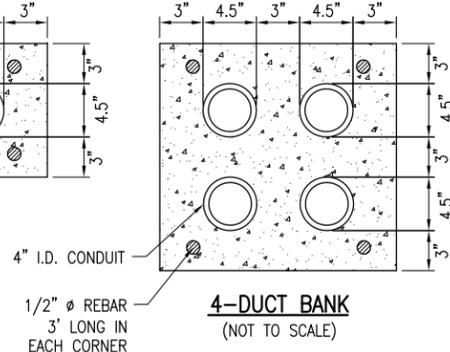
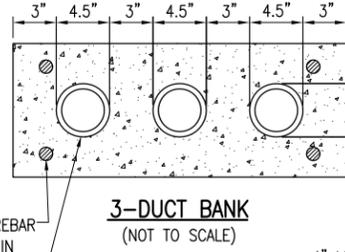
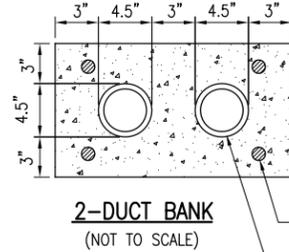
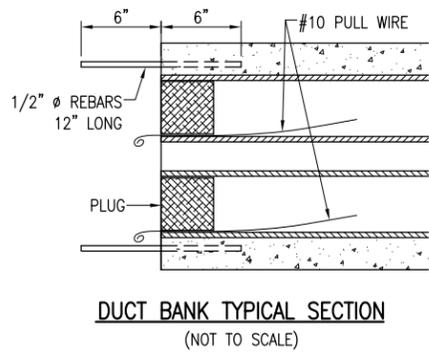
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Scale: NOT TO SCALE	BAK
Date: 01/18/2013	KNL
LAYOUT	REVIEWED
DRAWN	REVIEWED



EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

ELECTRICAL DETAILS
SHEET 3

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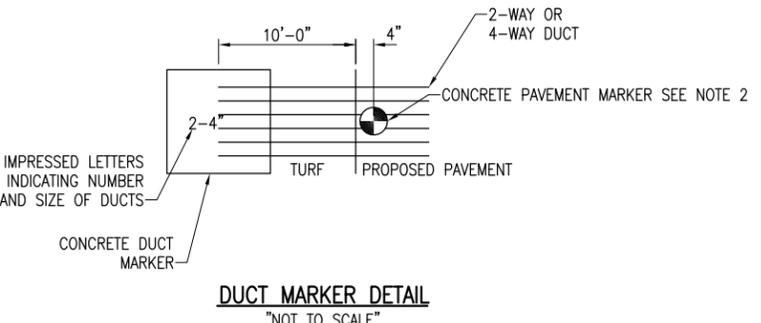


BITUMINOUS PAVEMENT DUCT MARKERS
"NOT TO SCALE"

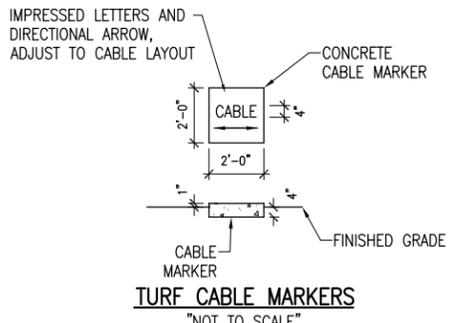
- NOTES:**
- TOP OF MARKER SHALL BE FLUSH WITH FINISHED PAVEMENT SURFACE. MARKER MAY BE INSTALLED IN A DRILLED HOLE AND SECURED WITH EPOXY GLUE.
 - BRASS DUCT MARKERS ARE AVAILABLE FROM G&S FOUNDRY & MANUFACTURING CO., INC., 210 KASKASKIA DRIVE, RED BUD, IL 62278, PHONE: (618)-282-4114

- NOTES:**
- LIDS FOR LOW VOLTAGE HANDHOLES SHALL BE LABELED "LOW VOLTAGE". LIDS FOR HIGH VOLTAGE HANDHOLES SHALL BE LABELED "HIGH VOLTAGE". COORDINATE LETTERING WITH MFR.
 - HANDHOLES MAY BE CAST IN PLACE OR PRECAST. PRECAST MANUFACTURERS MUST BE ON THE IDOT (ILLINOIS DEPT. OF TRANSPORTATION) APPROVED LIST OF CERTIFIED PRECAST CONCRETE PRODUCERS.
 - ALL CORING, INTERFACE, AND LABOR ASSOCIATED WITH CONDUIT, DUCT, CABLE IN UNIT DUCT, AND / OR CABLE ENTRIES WILL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE HANDHOLE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

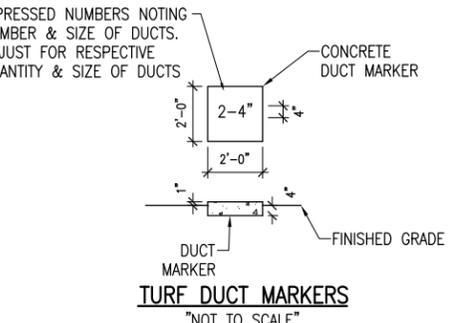
ELECTRICAL HANDHOLE
"NOT TO SCALE"



DUCT MARKER DETAIL
"NOT TO SCALE"



TURF CABLE MARKERS
"NOT TO SCALE"



TURF DUCT MARKERS
"NOT TO SCALE"

DUCT BANK NOTES:

- DIMENSIONS FOR CONCRETE COVERAGE AND SEPARATION BETWEEN DUCTS ARE MINIMUM.
- INCLUDE DUCT SPACERS AS MANUFACTURED BY UNDERGROUND DEVICES INC., OR APPROVED EQUAL TO MAINTAIN PROPER SEPARATION OF CONDUITS.
- REBAR IS REQUIRED TO ACCOMMODATE FUTURE DUCT EXTENSIONS & INTERFACE AT DUCT BANK TERMINATIONS. CONCRETE ENCASED DUCT BANKS TERMINATING IN HANDHOLES REQUIRE REBAR AT TERMINATIONS.
- CONDUITS FOR CONCRETE ENCASED DUCT SHALL BE SCHEDULE 40 PVC CONFORMING TO ITEM 110.
- MINIMUM DEPTH OF TOP OF DUCT ENCASEMENT SHALL BE 18" BELOW FINISHED GRADE.
- HIGH VOLTAGE AND LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME RACEWAY, CONDUIT, DUCT, HANDHOLE, OR MANHOLE.
- HOMERUN CABLES FOR A RESPECTIVE CIRCUIT SHALL BE INSTALLED IN THE SAME RACEWAY OR DUCT.
- DUCT INTERFACE TO HANDHOLES OR MANHOLES WILL BE CONSIDERED INCIDENTAL TO THE RESPECTIVE DUCT PAY ITEM.

CABLE & DUCT MARKER NOTES:

- THE COST OF ALL TURF AND PAVEMENT DUCT MARKERS SHALL BE INCIDENTAL TO THE DUCT. THE COST OF ALL CABLE MARKERS SHALL BE INCIDENTAL TO THE CABLE.
- BITUMINOUS PAVEMENT DUCT MARKER AND CONCRETE DUCT MARKER TO BE PROVIDED AT EACH END OF EACH DUCT AS SHOWN ON THE LOCATION PLAN. FOR CONCRETE PAVEMENT, THE LETTER "D" SHALL BE IMPRESSED IN THE PAVEMENT INSTEAD OF THE MARKER. THE LETTER SHALL BE FORMED AS DESCRIBED IN NOTE 4.
- CABLE MARKERS SHALL BE PLACED AT CHANGES OF DIRECTION AND APPROXIMATELY EVERY 200' ALONG CABLE RUNS.
- CONCRETE CABLE MARKERS AND DUCT MARKERS SHALL HAVE LETTERS 4" HIGH, 3" WIDE WITH WIDTH OF STROKE 1/2" AND 1/4" DEEP. ALL LETTERS, NUMBERS AND ARROWS TO BE IMPRESSED.

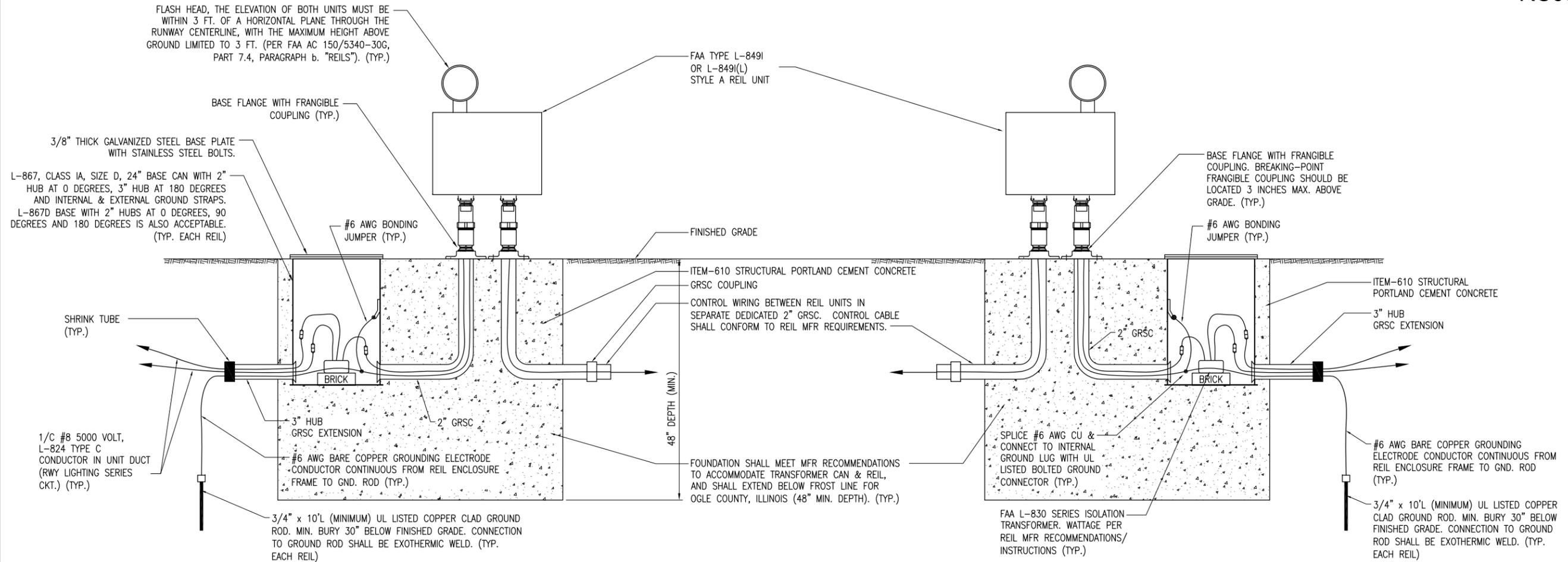
REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS
BLOCK GRANT: 3-17-0087-B15
IL PROJ.: RPJ-4243

Hanson Proj. No. 09A0141	11/29/12
Filename: E-504-DETL.dwg	KNL
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Date: 01/18/2013	KNL
LAYOUT	12/18/12
DRAWN	11/29/12
REVIEWED	12/18/12



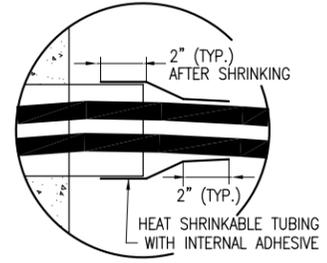
EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT
ELECTRICAL DETAILS
SHEET 4



REIL INSTALLATION DETAIL
NOT TO SCALE

REIL NOTES

- REILS FOR RUNWAY END 7 SHALL BE FAA APPROVED CONFORMING TO FAA AC 150/5345-51B "SPECIFICATION FOR DISCHARGE-TYPE FLASHING LIGHT EQUIPMENT", TYPE L-849I-REIL POWERED BY CONSTANT CURRENT 6.6 AMP POWER SUPPLY, STYLE A - UNIDIRECTIONAL, HIGH INTENSITY, ONE BRIGHTNESS STEP. SEE SPECIAL PROVISION SPECS AR125610 FOR ADDITIONAL REQUIREMENTS ON REILS.
- REILS SHALL BE AIMED AT ANGLE 10 DEGREES VERTICALLY AND TOED OUT 15 DEGREES FROM THE LINE PARALLEL TO THE RUNWAY CENTERLINE.
- ANY AND ALL TRENCHES AND DISTURBED AREAS WILL BE BACKFILLED AND RESTORED TO A SMOOTH GRADE AND SEEDED TO THE SATISFACTION OF THE ENGINEER. ALL TRENCH SETTLEMENT SHALL BE CORRECTED FOR A PERIOD OF ONE YEAR. RESTORATION, GRADING, SEEDING, AND MULCHING OF AREAS DISTURBED DURING THE REIL INSTALLATION AND ASSOCIATED CABLE WILL BE INCIDENTAL TO THE INSTALLATION OF THE REILS.
- GROUNDING FOR REILS.** GROUNDING FOR REILS SHALL CONFORM TO THE RESPECTIVE REIL MANUFACTURER'S INSTALLATION INSTRUCTIONS, AS DETAILED ON THE PLANS, AND AS SPECIFIED HEREIN. FURNISH AND INSTALL A 3/4-INCH DIAMETER BY 10-FOOT LONG COPPER CLAD GROUND ROD AT EACH REIL UNIT. GROUND RODS SHALL BE BURIED 30" MINIMUM BELOW GRADE. BOND EACH REIL UNIT HOUSING AND THE REIL BASE CAN TO THE RESPECTIVE GROUND ROD IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS WITH A #6 AWG BARE SOLID OR STRANDED (PER REIL MANUFACTURER REQUIREMENTS) COPPER GROUNDING ELECTRODE CONDUCTOR. ALL CONNECTIONS TO GROUND RODS SHALL BE EXOTHERMIC WELD AS MANUFACTURED BY CADWELD, THERMOWELD, ULTRAWELD, OR APPROVED EQUAL. CONNECTIONS TO REIL UNIT FRAMES SHALL BE AS RECOMMENDED BY THE MANUFACTURER OR WITH UL LISTED GROUNDING CONNECTORS. CONNECTION TO THE BASE / TRANSFORMER CAN SHALL BE WITH UL LISTED BOLTED CONNECTOR OR ONE-HOLE COMPRESSION LUG & 3/8" STAINLESS STEEL BOLTS, NUTS, & WASHERS.
- REFER TO PROPOSED ELECTRICAL PLANS FOR SITING AND ORIENTATION OF REIL'S.
- REILS WILL BE PAID FOR UNDER ITEM:
AR125610 "REILS" _____ PER PAIR.



DETAIL "B"
(NOT TO SCALE)

REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS
IL PROJ.: RPJ-4243
BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	11/29/12
Filename E-506-DETL.dwg	KNL
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Date 01/18/2013	KNL
LAYOUT	12/18/12
DRAWN	11/29/12
REVIEWED	12/18/12



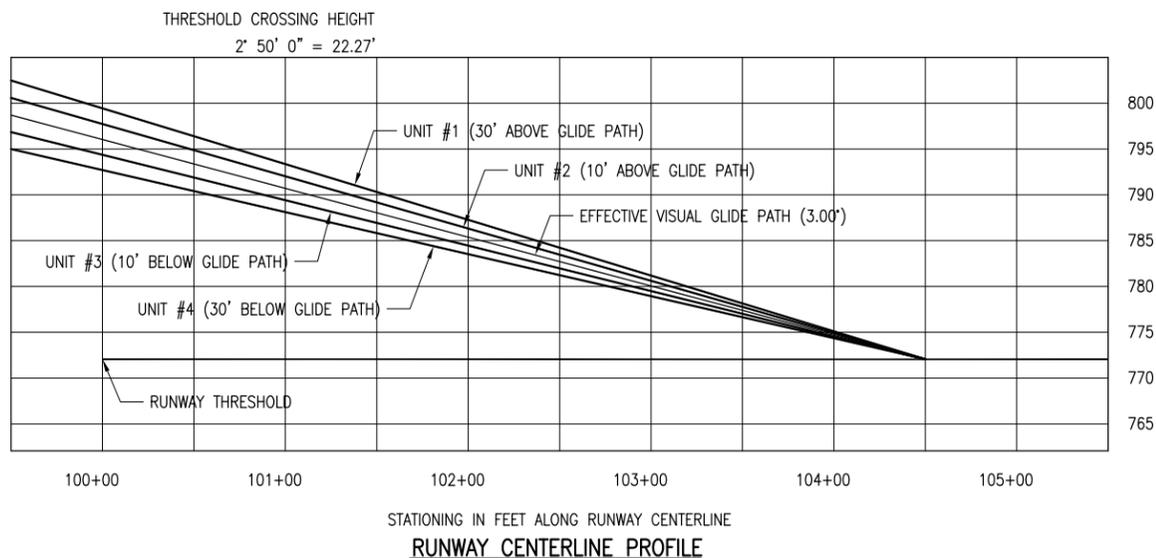
EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

REIL DETAILS TYPE
L-849I, POWERED BY 6.6
AMP SERIES CIRCUIT

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P.A.P.I. NOTES

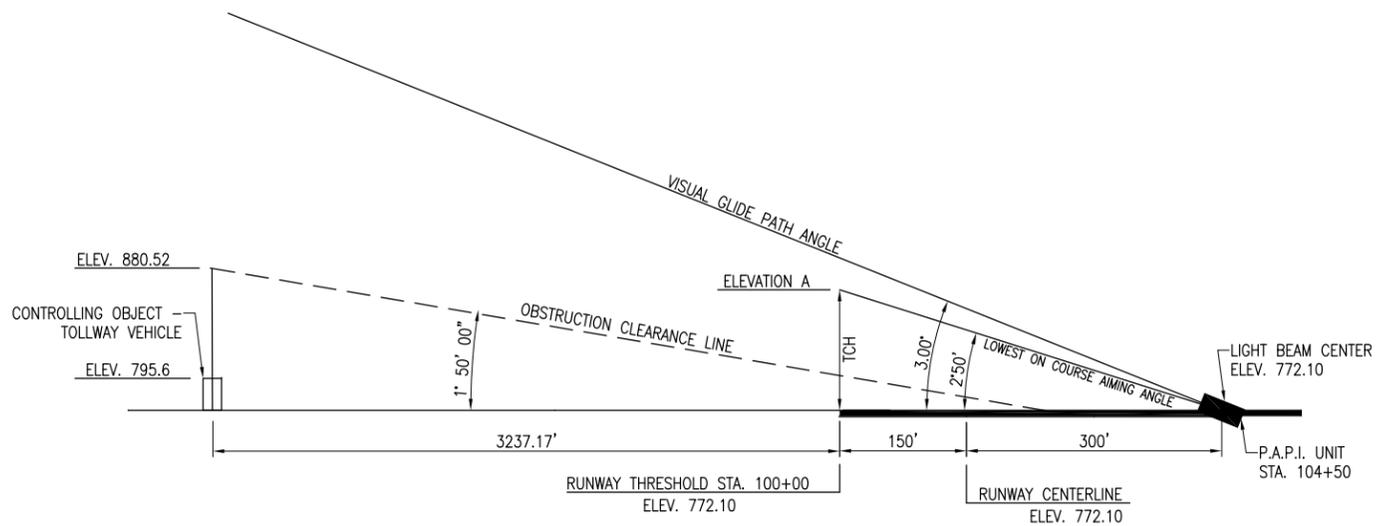
1. THE RELOCATED PRECISION APPROACH PATH INDICATOR (PAPI) SYSTEM WILL BE PLACED AT THE LOCATION SHOWN ON PROPOSED ELECTRICAL PLAN SHEETS.
2. THE PROPOSED CONCRETE FOUNDATION PIERS SHALL BE AS DETAILED ON THE "PAPI FOUNDATION DETAILS" SHEET.
3. EACH PAPI UNIT SHALL BE CONSTRUCTED SUCH THAT THE BEAM CENTERS WILL BE WITHIN ±1" OF ELEVATION 772.10.
4. THE EXISTING RUNWAY 7 PAPI TO BE RELOCATED IS A CROUSE-HINDS CAT NO. 880A 3A-1.
5. THE PAPI RELOCATION WILL BE PAID FOR UNDER ITEM: AR125968 RELOCATE PAPI _____ PER EACH



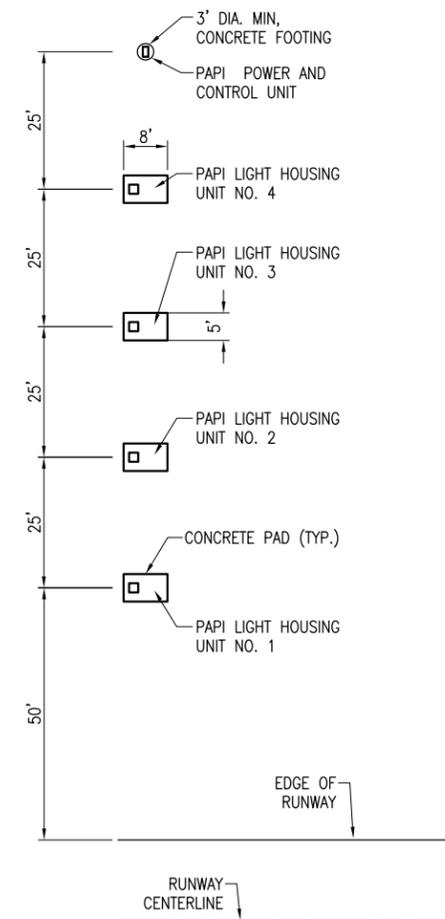
PAPI DATA--RUNWAY END 7					
	P.A.P.I. UNIT #1	P.A.P.I. UNIT #2	P.A.P.I. UNIT #3	P.A.P.I. UNIT #4	P AND C UNIT
DISTANCE FROM RUNWAY CL	87.5'	112.5'	137.5'	162.5'	187.5'
AIMING ANGLE	3°30'	3°10'	2°50'	2°30'	N/A
APPROXIMATE GROUND ELEVATION	770.0	769.3	768.7	768.1	767.5
P.A.P.I. UNIT APERTURE ELEVATION	772.10	772.10	772.10	772.10	N/A

NOTE:

LOWEST ON-COURSE ANGLE - 2° 50' ELEVATION A = 794.37' TCH = 22.27'



P.A.P.I. AIMING DIAGRAM 7 END
"NOT TO SCALE"



P.A.P.I. LAYOUT DETAIL
"NOT TO SCALE"

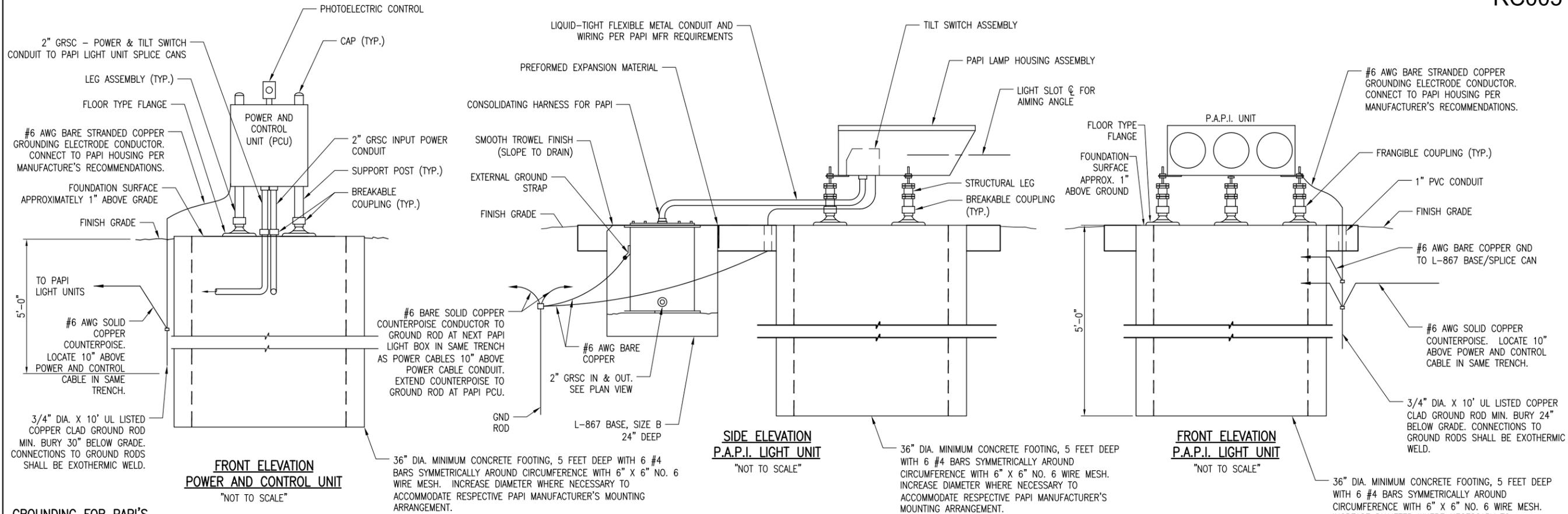
REVISION	
DATE	
ROCHELLE MUNICIPAL AIRPORT MAJOR THOMAS F. KORITZ FIELD ROCHELLE, OGLE COUNTY, ILLINOIS IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15	

Hanson Proj. No. 09A0141	xx/xx/xx
Filename C-501-DETL.dwg	xx/xx/xx
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Scale	xxx
Date 01/18/2013	xxx
LAYOUT	xxx
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REVIEWED	xxx

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 Springfield, Illinois 62703-2886

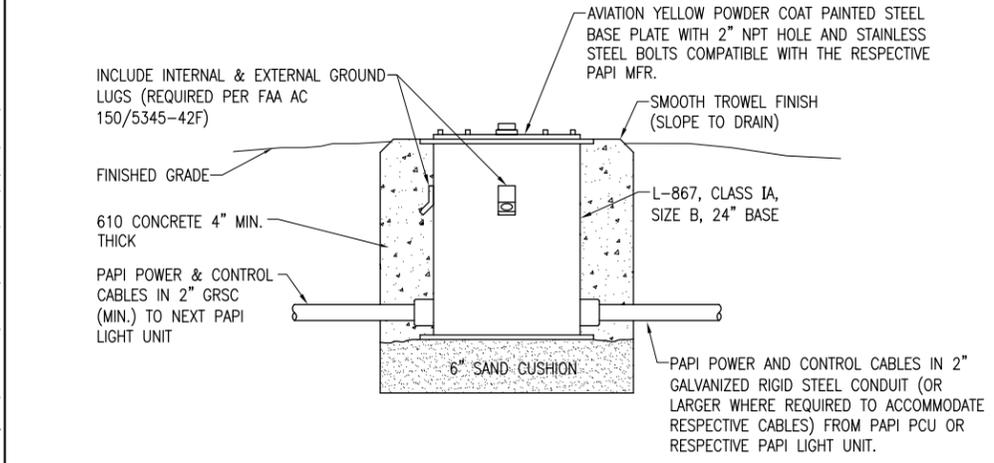
EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT

RUNWAY 7 PAPI DETAILS

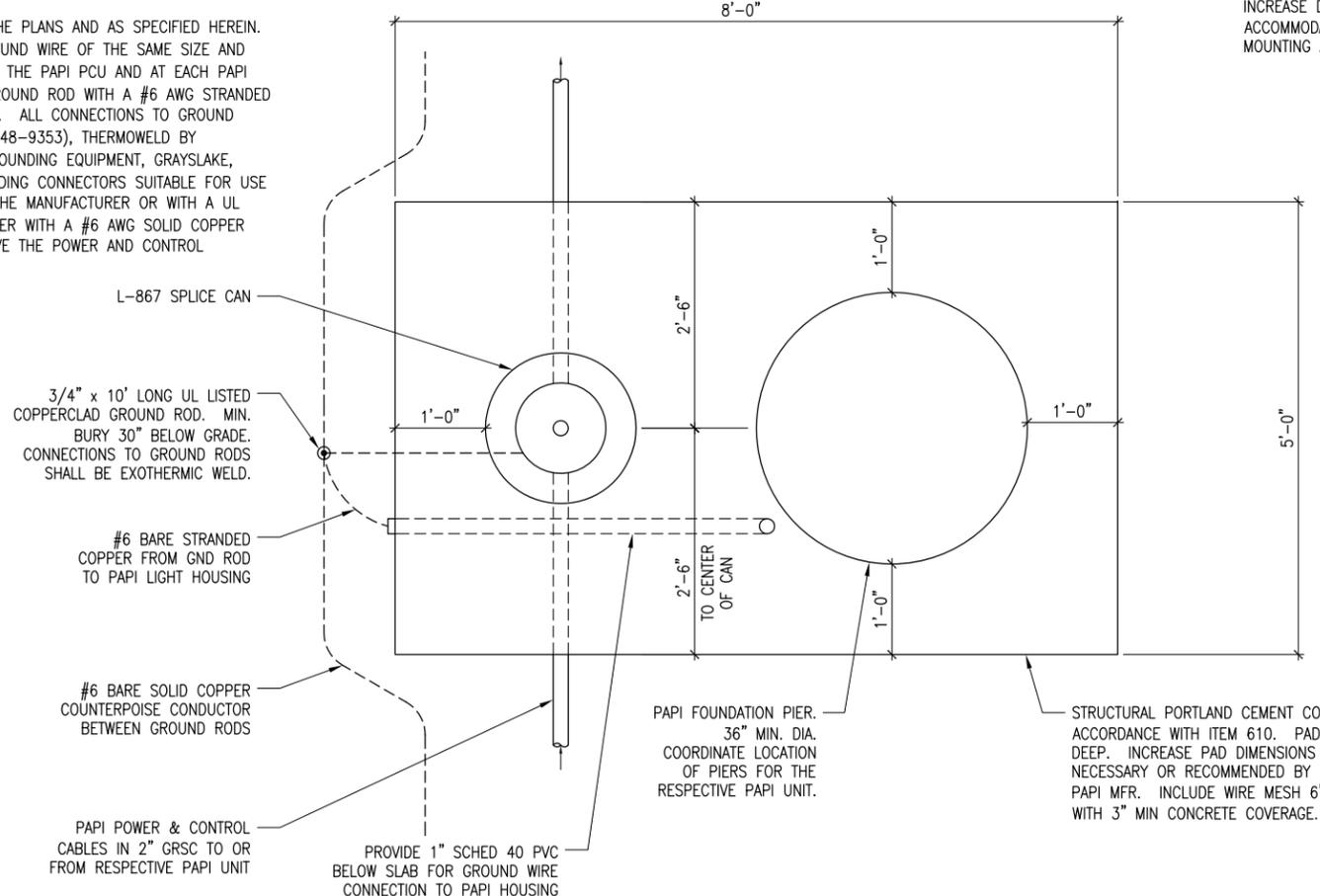


GROUNDING FOR PAPI'S

1. GROUNDING FOR PAPI'S SHALL CONFORM TO THE RESPECTIVE PAPI MANUFACTURER'S INSTALLATION INSTRUCTIONS. AS DETAILED ON THE PLANS AND AS SPECIFIED HEREIN. THE POWER CIRCUIT TO EACH PAPI UNIT INCLUDING THE PAPI PCU (POWER AND CONTROL UNIT) SHALL INCLUDE ON EQUIPMENT GROUND WIRE OF THE SAME SIZE AND TYPE AS THE PHASE CONDUCTORS. FURNISH AND INSTALL A 3/4-INCH DIAMETER BY 10-FEET LONG COPPER CLAD GROUND ROD AT THE PAPI PCU AND AT EACH PAPI LIGHTING UNIT. BOND EACH PAPI UNIT (PCU AND LIGHTING UNITS) AND THE RESPECTIVE L-867 SPLICE CAN TO THE RESPECTIVE GROUND ROD WITH A #6 AWG STRANDED COPPER GROUNDING ELECTRODE CONDUCTOR. TOP OF GROUND RODS SHALL BE BURIED APPROXIMATELY 24 INCHES BELOW GRADE. ALL CONNECTIONS TO GROUND RODS SHALL BE MADE WITH EXOTHERMIC WELD TYPE CONNECTIONS; CADWELD BY ERICO PRODUCTS, IN SOLON, OHIO (PHONE: 800-248-9353), THERMOWELD BY CONTINENTAL INDUSTRIES, INC., TULSA, OKLAHOMA (PHONE: 918-663-1440), OR ULTRAWELD BY HARGER LIGHTENING PROTECTION GROUNDING EQUIPMENT, GRAYSLAKE, ILLINOIS (PHONE: 800-842-7437), OR APPROVED EQUAL. CONNECTIONS TO L-867 SPLICE CANS SHALL BE WITH UL LISTED GROUNDING CONNECTORS SUITABLE FOR USE IN DIRECT BURIAL OR CONCRETE ENCASUREMENT APPLICATIONS. CONNECTIONS TO PAPI UNIT FRAME SHALL BE AS RECOMMENDED BY THE MANUFACTURER OR WITH A UL LISTED GROUNDING CONNECTOR. ALL GROUND RODS ASSOCIATED WITH THE COMPLETE PAPI INSTALLATION SHALL BE BONDED TOGETHER WITH A #6 AWG SOLID COPPER COUNTERPOISE CONDUCTOR. THIS COUNTERPOISE CONDUCTOR SHALL BE INSTALLED IN THE SAME TRENCH LOCATED 10 INCHES ABOVE THE POWER AND CONTROL CONDUCTORS, BETWEEN EACH RESPECTIVE PAPI UNIT (PCU AND/OR LIGHTENING UNIT).



NOTE:
FOR THE PURPOSE OF ENHANCING SAFETY, EACH BASE MUST HAVE INSTALLED, BY THE MANUFACTURER, AND INTERNAL AND EXTERNAL GROUND STRAP THAT IS AVAILABLE FOR THE PURPOSE OF ATTACHING A GROUND LUG THAT IS CONNECTED TO AN EARTH GROUND OR A SAFETY GROUND CONDUCTOR INSTALLED WITH THE RESPECTIVE CIRCUIT. FOR AIRPORT PROJECTS RECEIVING FEDERAL, FUNDS THIS REQUIREMENT IS MANDATORY PER FAA AC 150/5345-42F.



REVISION	
DATE	

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

IL PROJ.: RPJ-4243
BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	12/2/12
Filename: C-502-DETL.dwg	KNL
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Date: 01/18/2013	KNL
LAYOUT	KNL
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REVIEWED	KNL



EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

PAPI FOUNDATION DETAILS

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GENERAL NOTES

- 1. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 - NATIONAL ELECTRICAL CODE (NEC) MOST CURRENT ISSUE IN FORCE, THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES, AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE WILL NOT BE PERMITTED.
2. CONTRACTOR SHALL KEEP A COPY OF THE LATEST NEC IN FORCE ON SITE AT ALL TIMES DURING CONSTRUCTION FOR USE AS A REFERENCE.
3. CONTRACTOR SHALL COORDINATE WORK AND ANY POWER OUTAGES AND/OR SHUT DOWN OF SYSTEMS WITH THE RESPECTIVE FACILITY OWNER PERSONNEL AND THE AIRPORT MANAGER/DIRECTOR. ONCE SHUT DOWN, THE CIRCUITS SHALL BE LABELED AS SUCH TO PREVENT ACCIDENTAL ENERGIZING OF THE RESPECTIVE CIRCUITS. ALL PERSONNEL SHALL FOLLOW U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) 29 CFR PART 1910 OCCUPATIONAL SAFETY & HEALTH STANDARDS FOR ELECTRICAL SAFETY AND LOCKOUT/TAGOUT PROCEDURES INCLUDING, BUT NOT LIMITED TO, 29 CFR SECTION 1910.147 THE CONTROL OF HAZARDOUS ENERGY (LOCKOUT/TAGOUT).
4. THE CONTRACTOR SHALL ASCERTAIN THAT ALL LIGHTING SYSTEM COMPONENTS FURNISHED BY HIM, INCLUDING FAA APPROVED EQUIPMENT, ARE COMPATIBLE IN ALL RESPECTS WITH EACH OTHER AND THE REMAINDER OF THE NEW/EXISTING SYSTEM. ANY NONCOMPATIBLE COMPONENTS FURNISHED BY THIS CONTRACTOR SHALL BE REPLACED BY HIM AT NO ADDITIONAL COST TO THE AIRPORT SPONSOR WITH A SIMILAR UNIT, APPROVED BY THE ENGINEER (DIFFERENT MODEL OR DIFFERENT MANUFACTURER) THAT IS COMPATIBLE WITH THE REMAINDER OF THE AIRPORT LIGHTING SYSTEM.
5. IN CASE THE CONTRACTOR ELECTS TO FURNISH AND INSTALL AIRPORT LIGHTING EQUIPMENT REQUIRING ADDITIONAL WIRING, TRANSFORMERS, ADAPTORS, MOUNTINGS, ETC., TO THOSE SHOWN ON THE DRAWINGS AND/OR LISTED IN THE SPECIFICATION, ANY COST FOR THESE ITEMS SHALL BE INCIDENTAL TO THE EQUIPMENT COST.
6. THE CONTRACTOR INSTALLED EQUIPMENT (INCLUDING FAA APPROVED) SHALL NOT GENERATE ANY ELECTROMAGNETIC INTERFERENCE IN THE EXISTING AND/OR NEW COMMUNICATIONS, WEATHER, AIR NAVIGATION, AND AIR TRAFFIC CONTROL EQUIPMENT. ANY EQUIPMENT GENERATING SUCH INTERFERENCE SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST WITH THE EQUIPMENT MEETING THE APPLICABLE SPECIFICATIONS AND NOT GENERATING ANY INTERFERENCE.
7. WHEN A SPECIFIC TYPE, STYLE, CLASS, ETC. OF FAA APPROVED EQUIPMENT IS SPECIFIED ONLY THAT TYPE, STYLE, CLASS, WILL BE ACCEPTABLE, EVEN THOUGH EQUIPMENT OF OTHER TYPES STYLES, CLASSES, ETC. MAY BE APPROVED.
8. ANY AND ALL INSTRUCTIONS FROM THE RESIDENT ENGINEER TO THE CONTRACTOR REGARDING CHANGES IN OR DEVIATIONS FROM THE PLANS AND SPECIFICATIONS SHALL BE IN WRITING WITH COPIES SENT TO THE AIRPORT SPONSOR AND THE ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF AERONAUTICS). THE CONTRACTOR SHALL NOT ACCEPT ANY VERBAL INSTRUCTIONS FROM THE RESIDENT ENGINEER REGARDING ANY CHANGES FROM THE PLANS AND SPECIFICATIONS.
9. A MINIMUM OF THREE COPIES OF THE INSTRUCTION BOOK SHALL BE SUPPLIED WITH EACH DIFFERENT TYPE OF EQUIPMENT. THE BOOKS DESCRIBING A MORE SOPHISTICATED TYPE OF EQUIPMENT, SUCH AS REGULATORS, PAPI, REIL, ETC. AS A MINIMUM SHALL CONTAIN THE FOLLOWING:
A. A DETAILED DESCRIPTION OF THE OVERALL EQUIPMENT AND ITS INDIVIDUAL COMPONENTS.
B. THEORY OF OPERATION INCLUDING THE FUNCTION OF EACH COMPONENT.
C. INSTALLATION INSTRUCTION.
D. START-UP INSTRUCTIONS.
E. PREVENTATIVE MAINTENANCE REQUIREMENTS.
F. CHART FOR TROUBLE-SHOOTING.
G. COMPLETE POWER AND CONTROL DETAILED WIRING DIAGRAM(S), SHOWING EACH CONDUCTOR/CONNECTION/COMPONENT - "BLACK" BOXES ARE NOT ACCEPTABLE. THE DIAGRAM OF THE NARRATIVE SHALL SHOW VOLTAGE/CURRENTS/WAVE SHAPES AT STRATEGIC LOCATIONS TO BE USED WHEN CHECKING AND/OR TROUBLE-SHOOTING THE EQUIPMENT. WHEN THE EQUIPMENT HAS SEVERAL MODES OF OPERATION, SUCH AS SEVERAL BRIGHTNESS STEPS, THESE PARAMETERS SHALL BE INDICATED FOR ALL DIFFERENT MODES.
H. PARTS LIST WHICH WILL INCLUDE ALL MAJOR AND MINOR COMPONENTS SUCH AS RESISTORS, DIODES, ETC. IT SHALL INCLUDE A COMPLETE NOMENCLATURE OF EACH COMPONENT AND, IF APPLICABLE, THE NAME OF ITS MANUFACTURER AND THE CATALOG NUMBER.
I. SAFETY INSTRUCTIONS.

POWER AND CONTROL NOTES

- 1. PROVIDE LEGEND PLATES FOR ALL ELECTRICAL EQUIPMENT TO IDENTIFY FUNCTION, CIRCUIT VOLTAGE AND PHASE. WHERE THE EQUIPMENT CONTAINS FUSES, ALSO IDENTIFY THE FUSE OR FUSE LINK AMPERE RATING. WHERE THE EQUIPMENT DOES NOT HAVE SUFFICIENT AREA TO INSTALL LEGEND PLATES, THE LEGEND PLATES SHALL BE INSTALLED ON THE WALL NEXT TO THE UNIT. LEGEND PLATES SHALL BE WEATHERPROOF ENGRAVED PLASTIC OR PHENOLIC MATERIAL, 1/4" HIGH BLACK LETTERS ON A WHITE BACKGROUND UNLESS NOTED OTHERWISE. SECURE WITH WEATHERPROOF ADHESIVE AND MACHINE SCREWS. FURNISH ADDITIONAL LEGEND PLATES WHERE REQUIRED BY CODE, FOR ADDITIONAL EQUIPMENT, AS DETAILED HEREIN ON THE PLANS, AND AS NOTED IN THE SPECIAL PROVISION SPECIFICATIONS.
2. COLOR CODE ALL PHASE WIRING BY THE USE OF COLORED WIRE INSULATION AND/OR COLORED TAPE. WHERE TAPE IS USED, THE WIRE INSULATION SHALL BE BLACK. BLACK AND RED SHALL BE USED FOR PHASE CONDUCTORS ON 120/240VAC SINGLE-PHASE, THREE WIRE SYSTEMS AND BLACK, ORANGE (FOR HIGH LEG) AND BLUE SHALL BE USED FOR PHASE CONDUCTORS ON 240/120VAC THREE-PHASE, FOUR WIRE SYSTEMS. NEUTRAL CONDUCTORS, SIZE NO. 6 AWG OR SMALLER, SHALL BE IDENTIFIED BY A CONTINUOUS WHITE OR NATURAL GRAY OUTER FINISH ALONG ITS ENTIRE LENGTH. NEUTRAL CONDUCTORS LARGER THAN NO. 6 AWG SHALL BE IDENTIFIED EITHER BY A CONTINUOUS WHITE OR NATURAL GRAY OUTER FINISH ALONG ITS ENTIRE LENGTH OR BY THE USE OF WHITE TAPE AT ITS TERMINATIONS AND INSIDE ACCESSIBLE WIREWAYS. INSULATED GROUND CONDUCTORS SHALL HAVE GREEN COLORED INSULATION FOR ALL CONDUCTOR SIZES (AWG OR KCMIL).
3. ALL BRANCH CIRCUIT CONDUCTORS CONNECTED TO A PARTICULAR PHASE SHALL BE IDENTIFIED WITH THE SAME COLOR. THE COLOR CODING SHALL BE EXTENDED TO THE POINT OF UTILIZATION.
4. IN CONTROL WIRING THE SAME COLOR SHALL BE USED THROUGHOUT THE SYSTEM FOR THE SAME FUNCTION, SUCH AS 10%, 30%, 100% BRIGHTNESS CONTROL, ETC.
5. LOW VOLTAGE (600 V.) AND HIGH VOLTAGE (5000 V.) CONDUCTORS SHALL BE INSTALLED IN SEPARATE WIREWAYS.
6. NEATLY LACE WIRING IN DISTRIBUTION PANELS, WIREWAYS, SWITCHES AND JUNCTION/PULL BOXES.
7. THE MINIMUM SIZE OF PULL/JUNCTION BOXES, REGARDLESS OF THE QUANTITY AND SIZE OF THE CONDUCTORS SHOWN, SHALL BE AS FOLLOWS:
A. IN STRAIGHT PULLS THE LENGTH OF THE BOX SHALL NOT BE LESS THAN EIGHT TIMES THE TRADE DIAMETER OF THE LARGER CONDUIT. THE TOTAL AREA (INCLUDING THE CONDUIT CROSS-SECTIONAL AREA) OF A BOX END SHALL BE AT LEAST 3 TIMES GREATER THAN THE TOTAL TRADE CROSS-SECTIONAL AREA OF THE CONDUITS TERMINATING AT THE END.
B. IN ANGLE PULLS OR 'U' PULLS THE DISTANCE BETWEEN EACH CONDUIT ENTRY INSIDE THE BOX AND THE OPPOSITE WALL OF THE BOX SHALL NOT BE LESS THAN SIX (6) TIMES THE TRADE DIAMETER OF THE LARGEST CONDUIT. THIS DISTANCE SHALL BE INCREASED FOR ADDITIONAL ENTRIES BY THE AMOUNT OF THE SUM OF THE DIAMETERS OF ALL OTHER CONDUIT ENTRIES ON THE SAME WALL AS THE BOX. THE DISTANCE BETWEEN CONDUIT ENTRIES ENCLOSING THE SAME CONDUCTOR SHALL NOT BE LESS THAN SIX TIMES THE TRADE DIAMETER OF THE LARGEST CONDUIT.
8. A RUN OF CONDUIT BETWEEN TERMINATIONS AT EQUIPMENT ENCLOSURES, SQUARE DUCTS AND PULL/JUNCTION BOXES, SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL), INCLUDING THOSE BENDS LOCATED IMMEDIATELY AT THE TERMINATIONS, CAST, CONDUIT TYPE OUTLETS SHALL NOT BE TREATED AS PULL/JUNCTION BOXES.
9. EQUIPMENT CABINETS SHALL NOT BE USED AS PULL/JUNCTION BOXES. ONLY WIRING TERMINATING AT THE EQUIPMENT SHALL BE BROUGHT INTO THESE ENCLOSURES.
10. SPLICES AND JUNCTION POINTS SHALL BE PERMITTED ONLY IN JUNCTION BOXES, DUCTS EQUIPPED WITH REMOVABLE COVERS, AND AT EASILY ACCESSIBLE LOCATIONS.
11. CIRCUIT BREAKERS IN POWER DISTRIBUTION PANEL(S) SHALL BE THERMAL-MAGNETIC MOLDED CASE, PERMANENT TRIP WITH 100 AMPERE, MINIMUM FRAME.
12. DUAL LUGS SHALL BE USED WHERE TWO (2) WIRES, SIZE NO. 6 OR LARGER, ARE TO BE CONNECTED TO THE SAME TERMINAL.
13. ALL INTERIOR WALL MOUNTED EQUIPMENT ENCLOSURES SHALL BE MOUNTED ON HOT DIPPED GALVANIZED STEEL STRUT SUPPORT, OR STAINLESS STEEL STRUT SUPPORT, WITH CORROSION RESISTANT HARDWARE.
14. SUPPORT FOR EXTERIOR MOUNTED EQUIPMENT SHALL USE HOT DIPPED GALVANIZED STEEL STRUT SUPPORT OR STAINLESS STEEL STRUT SUPPORT WITH STAINLESS STEEL HARDWARE. PROVIDE ZINC RICH PAINT APPLIED TO SUPPORT OF GALVANIZED STEEL SUPPORT TO MINIMIZE THE POTENTIAL FOR CORROSION PER THE RESPECTIVE STRUT SUPPORT MANUFACTURER'S RECOMMENDATIONS.

- 15. CONDUITS FOR ELECTRIC SERVICE ENTRANCE AND FEEDERS SHALL BE AS DETAILED HEREIN ON THE PLANS. WHERE GALVANIZED RIGID STEEL CONDUIT IS SPECIFIED IT SHALL HAVE THREADED FITTINGS. SET SCREW TYPE FITTINGS WILL NOT BE ACCEPTABLE. CONDUITS FOR UNDERGROUND APPLICATIONS SHALL BE AS DETAILED HEREIN. CONDUITS FOR GROUNDING ELECTRODE CONDUCTORS OR INDIVIDUAL GROUNDING CONDUCTORS SHALL BE SCHEDULE 40 OR SCHEDULE 80 PVC.
16. PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AT CONNECTIONS TO EQUIPMENT SUBJECT TO VIBRATION OR WHERE FLEXIBILITY IS REQUIRED. LIQUID TIGHT FLEXIBLE METAL CONDUIT AND ASSOCIATED FITTINGS SHALL BE U.L. LISTED TO MEET THE REQUIREMENTS OF NEC 350.6, SUITABLE FOR GROUNDING, SUNLIGHT RESISTANT, AND RESISTANT TO OIL, GASOLINE, AND GREASE. LIQUID TIGHT FLEXIBLE METAL CONDUIT THAT IS USED FOR FLEXIBILITY (INCLUDING CONNECTIONS TO MOTORS, TRANSFORMERS, & CONSTANT CURRENT REGULATORS) SHALL REQUIRE AN EXTERNAL BONDING JUMPER OR INTERNAL EQUIPMENT GROUNDING CONDUCTOR PER NEC 350.60. DO NOT INSTALL LIQUID TIGHT FLEXIBLE METAL CONDUIT THAT IS NOT UL LISTED. CONFIRM LIQUID-TIGHT FLEXIBLE METAL CONDUIT BEARS THE UL LABEL PRIOR TO INSTALLING IT.
17. UNLESS OTHERWISE SHOWN, ALL EXPOSED CONDUITS SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES WITH THE LINES OF THE STRUCTURE.
18. ALL STEEL CONDUITS, FITTINGS, NUTS, BOLTS, ETC. SHALL BE GALVANIZED.
19. USE CONDUIT BUSHINGS AT EACH CONDUIT TERMINATION. WHERE NO. 4 AWG OR LARGER UNDERGROUND WIRE IS INSTALLED, USE INSULATED BUSHINGS.
20. USE DOUBLE LOCK NUTS AT EACH CONDUIT TERMINATION.
21. WRAP ALL PRIMARY AND SECONDARY POWER TRANSFORMER CONNECTIONS WITH SUFFICIENT LAYERS OF INSULATING TAPE (3M SCOTCH 23 ALL-VOLTAGE SPLICING TAPE, 3M SCOTCH 130C LINERLESS RUBBER SPLICING TAPE, OR APPROVED EQUAL) AND COVER WITH VINYL ELECTRICAL TAPE (3M SCOTCH 88 VINYL ELECTRICAL TAPE OR APPROVED EQUAL) FOR FULL VALUE OF CABLE INSULATION VOLTAGE.
22. UNLESS OTHERWISE NOTED, ALL SINGLE CONDUCTOR CONTROL WIRING SHALL BE NO. 12 AWG. COPPER MINIMUM.
23. THE FOLLOWING SHALL APPLY TO RELAY/CONTACTOR PANELS/ENCLOSURES:
A. FOR INTERIOR LOCATIONS ALL COMPONENTS SHALL BE MOUNTED IN NEMA 12 (DUST TIGHT) ENCLOSURE(S) WITH VERTICALLY HINGED COVERS. FOR EXTERIOR/OUTDOOR LOCATIONS ALL COMPONENTS SHALL BE MOUNTED IN NEMA 4X STAINLESS STEEL ENCLOSURE(S) WITH VERTICALLY HINGED COVERS. ALL CONDUIT ENTRIES INTO NEMA 4, 4X ENCLOSURES SHALL HAVE NEMA 4 HUBS LISTED SUITABLE FOR THE RESPECTIVE ENCLOSURE TO MAINTAIN THE NEMA 4, 4X RATING OF THE ENCLOSURE.
B. THE ENCLOSURE(S) SHALL HAVE AMPLE SPACE FOR THE CIRCUIT COMPONENTS, TERMINAL BLOCKS AND INCOMING AND INTERNAL WIRING.
C. ALL CONTROL CONDUCTOR TERMINATIONS SHALL BE OF THE OPEN-EYE CONNECTOR/SCREW TYPE. SOLDERED CLOSED-EYE TERMINATIONS, OR TERMINATIONS WITHOUT CONNECTORS ARE NOT ACCEPTABLE.
D. WHEN THE ENCLOSURE COVER IS OPENED, ALL CIRCUIT COMPONENTS, WIRING AND TERMINALS SHALL BE EXPOSED AND ACCESSIBLE WITHOUT REMOVAL OF ANY PANELS, COVERS, ETC., EXCEPT THOSE COVERING HIGH VOLTAGE COMPONENTS.
E. ACCESS TO, OR REMOVAL OF A CIRCUIT COMPONENT OR TERMINAL BLOCK WILL NOT REQUIRE THE REMOVAL OF ANY OTHER CIRCUIT COMPONENT OR TERMINAL BLOCK.
F. EACH CIRCUIT COMPONENT SHALL BE CLEARLY IDENTIFIED INDICATING ITS CORRESPONDING NUMBER SHOWN ON THE DRAWINGS AND ITS FUNCTION.
G. A COMPLETE WIRING DIAGRAM SHALL BE MOUNTED ON THE INSIDE OF THE COVER. THE DIAGRAM SHALL REPRESENT EACH CONDUCTOR BY A SEPARATE LINE.
H. THE DIAGRAM SHALL IDENTIFY EACH CIRCUIT COMPONENT AN NUMBERING AND COLOR OF EACH TERMINAL CONDUCTOR AND TERMINAL.
I. ALL WIRING SHALL BE NEATLY TRAINED AND LACED.
J. MINIMUM WIRE SIZE SHALL BE NO. 12 AWG.
24. FURNISH & INSTALL A WEATHERPROOF WARNING LABEL FOR EACH METER SOCKET, SERVICE DISCONNECT, SAFETY SWITCH, CUTOFF, PANELBOARD, & CONTROL PANEL TO WARN PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS, PER THE REQUIREMENTS OF NEC 110.16 "FLASH PROTECTION".

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Table with 2 columns: REVISION, DATE

ROCHELLE MUNICIPAL AIRPORT MAJOR THOMAS F. KORITZ FIELD ROCHELLE, OGLE COUNTY, ILLINOIS
IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

Table with 2 columns: LAYOUT, DRAWN, REVIEWED and 2 columns: KNL, BAK, KNL with dates 11/29/12, 11/29/12, 12/18/12



EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT
ELECTRICAL NOTES SHEET 1

AIRFIELD LIGHTING NOTES

- 1. UNLESS OTHERWISE NOTED, ALL UNDERGROUND AIRFIELD LIGHTING SERIES CIRCUIT CONDUCTORS WHETHER DEB OR IN DUCT/CONDUIT SHALL BE FAA APPROVED 5000 VOLT L-824 TYPE. ALL UNDERGROUND FIELD POWER LOW VOLTAGE (600 VOLT & BELOW) CIRCUIT CONDUCTORS WHETHER DEB OR IN DUCT/CONDUIT SHALL BE UL LISTED 600 VOLT, TYPE XLP-USE-2 COPPER CONDUCTORS. CONDUCTOR SIZES SHALL BE AS SPECIFIED, HEREIN.
- 2. NO COMPONENTS OF PRIMARY CIRCUIT SUCH AS CABLE, CONNECTORS AND TRANSFORMERS SHALL BE BROUGHT ABOVE GROUND AT EDGE LIGHTS, SIGNS, REIL, PAPI, ETC.
- 3. THERE SHALL BE NO EXPOSED POWER/CONTROL CABLES BETWEEN THE POINT WHERE THEY LEAVE THE UNDERGROUND (DEB OR L-867 BASES) AND WHERE THEY ENTER THE EQUIPMENT (SUCH AS TAXIWAY SIGNS, PAPI, REIL, ETC.) ENCLOSURES. THESE CABLES SHALL BE ENCLOSED IN RIGID CONDUIT OR IN FLEXIBLE, WATERTIGHT CONDUIT WITH BREAKABLE COUPLING(S) AT THE GRADE OR THE HOUSING COVER, AS SHOWN IN APPLICABLE DETAILS.
- 4. THE JOINTS OF THE L-823 PRIMARY CONNECTORS SHALL BE WRAPPED WITH AT LEAST ONE LAYER OF RUBBER OR SYNTHETIC RUBBER TAPE AND ONE LAYER OF PLASTIC TAPE, ONE-HALF LAPPED, EXTENDING AT LEAST 1-1/2 INCHES ON EACH SIDE OF THE JOINT, AS SHOWN ON ELECTRICAL DETAILS SHEET 1.
- 5. THE CABLE ENTRANCE INTO THE FIELD-ATTACHED L-823 CONNECTORS SHALL BE ENCLOSED BY A HEAT-SHRINKABLE TUBING WITH CONTINUOUS INTERNAL ADHESIVE, AS SHOWN ON ELECTRICAL DETAILS SHEET 1.
- 6. L-823 TYPE II, TWO-CONDUCTOR SECONDARY CONNECTORS SHALL BE CLASS 'A' (FACTORY MOLDED).
- 7. THERE SHALL BE NO SPLICES IN THE SECONDARY CABLE(S) WITHIN THE STEMS OF A RUNWAY/TAXIWAY EDGE/THRESHOLD LIGHTING FIXTURE AND THE WIREWAYS LEADING TO TAXIWAY SIGNS AND PAPI/REIL EQUIPMENT.
- 8. ELECTRICAL INSULATING GREASE SHALL BE APPLIED WITHIN THE L-823, SECONDARY, TWO CONDUCTOR CONNECTORS TO PREVENT WATER ENTRANCE. THESE CONNECTORS SHALL NOT BE TAPED.
- 9. DEB ISOLATION TRANSFORMERS SHALL BE BURIED AT A DEPTH OF TEN (10") INCHES ON A LINE CROSSING THE LIGHT AND PERPENDICULAR TO THE RUNWAY/TAXIWAY CENTERLINE AT A LOCATION TWELVE (12") INCHES FROM THE LIGHT OPPOSITE FROM THE RUNWAY/TAXIWAY.
- 10. A SLACK OF THREE (3") FEET, MINIMUM, PLUS DEPTH OF BASE CAN (IF APPLICABLE), SHALL BE PROVIDED IN THE PRIMARY CABLE AT EACH TRANSFORMER/CONNECTOR TERMINATION. AT STAKE-MOUNTED LIGHTS, THE SLACK SHALL BE LOOSELY COILED IMMEDIATELY BELOW THE ISOLATION TRANSFORMER. THERE SHALL BE NO ADDITIONAL PAYMENT FOR CABLE SLACK AND THEREFORE THE QUANTITY OF PROPOSED CABLE SLACK HAS NOT BEEN INCLUDED IN THE RESPECTIVE CABLE PAY ITEMS.
- 11. DIRECTION OF PRIMARY CABLES SHALL BE IDENTIFIED BY COLOR CODING AS FOLLOWS: WHEN FACING LIGHT WITH BACK TO PAVEMENT, CABLE TO THE LEFT IS CODED RED AND CABLE TO RIGHT IS CODED BLUE. THIS APPLIES TO STAKE MOUNTED LIGHTS AND BASE MOUNTED LIGHTS WHERE THE BASE HAS ONLY ONE ENTRANCE.
- 12. L-867 BASES SHALL BE SIZE B, 24" DEEP, CLASS I, UNLESS OTHERWISE NOTED.
- 13. BASE MOUNTED BREAKABLE COUPLINGS SHALL NOT HAVE WEEP HOLES TO THE OUTSIDE. PLUGGED UP HOLES SHALL NOT BE ACCEPTABLE. IT SHALL BE A 1/4" DIAMETER, MINIMUM, OR EQUIVALENT OPENING FOR DRAINAGE FROM THE SPACE AROUND THE SECONDARY CONNECTOR INTO THE L-867 BASE.
- 14. THE ELEVATION OF THE BREAKABLE COUPLING GROOVE SHALL NOT EXCEED 1-1/2" ABOVE THE EDGE OF THE COVER IN CASE OF BASE MOUNTED COUPLINGS, OR THE TOP OF THE STAKE IN CASE OF STAKE MOUNTED COUPLINGS.
- 15. WHERE THE BREAKABLE COUPLING IS NOT AN INTEGRAL PART OF THE LIGHT FIXTURE STEM OR MOUNTING LEG, A BEAD OF SILICON SEAL SHALL BE APPLIED COMPLETELY AROUND LIGHT STEM OR WIREWAY AT BREAKABLE COUPLING TO PROVIDE A WATERTIGHT SEAL.
- 16. TOPS OF THE STAKES SUPPORTING LIGHT FIXTURES SHALL BE FLUSH WITH THE SURROUNDING GRADE.
- 17. PLASTIC LIGHTING FIXTURE COMPONENTS, SUCH AS LAMP HEADS, STEMS, BREAKABLE COUPLINGS, BASE COVERS, BRACKETS, STAKES, SHALL NOT BE ACCEPTABLE.
- 18. THE TOLERANCE FOR THE HEIGHT OF RUNWAY/TAXIWAY EDGE LIGHTS SHALL BE: ONE (1) INCH. IN CASE OF STAKE MOUNTED LIGHTS, THE SPECIFIED LIGHTING FIXTURE HEIGHT SHALL BE MEASURED BETWEEN THE TOP OF THE STAKE AND THE TOP OF THE LENS. IN CASE OF BASE MOUNTED LIGHTS, THE SPECIFIED LIGHTING FIXTURE HEIGHT SHALL BE MEASURED BETWEEN THE TOP OF THE BASE FLANGE AND THE TOP OF THE LENS, THUS INCLUDING THE BASE COVER, THE FRANGIBLE COUPLING, THE STEM, THE LAMP HOUSING AND THE LENS.
- 19. THE TOLERANCE FOR THE LATERAL SPACING (LIGHT LANE TO RUNWAY/TAXIWAY CENTERLINE) OF RUNWAY/TAXIWAY EDGE LIGHTS SHALL BE ONE (1) INCH. THIS ALSO APPLIES AT INTERSECTIONS TO LATERAL SPACING BETWEEN LIGHTS OF A RUNWAY/TAXIWAY AND THE INTERSECTING RUNWAY/TAXIWAY.

- 20. ENTRANCES INTO L-867 BASES SHALL HAVE CONDUIT COUPLINGS OR REDUCERS TO INTERFACE UNIT DUCT/CONDUIT TO L-867 BASE HUBS, OR SHALL BE SEALED WITH HEAT SHRINK AS SHOWN IN DETAIL "B" ON ELECTRICAL DETAILS SHEET 1.
- 21. GALVANIZED/PAINTED EQUIPMENT/COMPONENT SURFACES SHALL NOT BE DAMAGED BY DRILLING, FILING, ETC. DRAIN HOLES IN METAL TRANSFORMER HOUSINGS SHALL BE MADE BEFORE GALVANIZING.
- 22. EDGE LIGHT NUMBERING TAGS SHALL BE FACING THE PAVEMENT.
- 23. CABLE/SPLICE/DUCT MARKERS SHALL BE PRECAST CONCRETE OF THE SIZE SHOWN. LETTERS/NUMBERS/ARROWS FOR THE LEGEND TO BE IMPRESSED INTO THE TOPS OF THE MARKERS SHALL BE PRE-ASSEMBLED AND SECURED IN THE MOLD BEFORE THE CONCRETE IS POURED. LEGEND INSCRIBED BY HAND IN WET CONCRETE SHALL NOT BE ACCEPTABLE.
- 24. ALL UNDERGROUND CABLE RUNS SHALL BE IDENTIFIED BY CABLE MARKERS AT 200 FEET MAXIMUM SPACING, WITH AN ADDITIONAL MARKER AT EACH CHANGE OF DIRECTION OF THE CABLE RUN. CABLE MARKERS SHALL BE INSTALLED IMMEDIATELY ABOVE THE CABLES.
- 25. THERE SHALL BE NO SPLICES BETWEEN THE ISOLATION TRANSFORMERS. L-823 CONNECTORS ARE ALLOWED AT TRANSFORMER CONNECTIONS ONLY, UNLESS OTHERWISE SHOWN.
- 26. APPLY AN OXIDE INHIBITING, ANTI-SEIZING COMPOUND TO ALL SCREWS, NUTS AND BREAKAGE COUPLING THREADS.
- 27. LOCATIONS OF ENDS OF ALL UNDERGROUND DUCTS SHALL BE IDENTIFIED BY DUCT MARKERS.
- 28. WHERE A PARALLEL, CONSTANT VOLTAGE PAPI SYSTEM IS PROVIDED, THE "T" SPLICES SHALL BE OF THE CAST TYPE.
- 29. CONCRETE USED FOR SLABS, FOOTINGS, BACKFILL AROUND TRANSFORMER HOUSINGS, MARKINGS, ETC. SHALL BE 3500 PSI, AIR-ENTRAINED.
- 30. ALL POWER AND CONTROL CABLES IN MAN/HAND HOLES SHALL BE TAGGED. USE EMBOSSED COPPER STRIPS TO BE ATTACHED AT BOTH ENDS TO THE CABLE BY THE USE OF PLASTIC STRAPS. MINIMUM OF TWO TAGS SHALL BE PROVIDED ON EACH CABLE IN A MAN/HAND HOLE-ONE AT THE CABLE ENTRANCE AND ONE AT THE CABLE EXIT.
- 31. THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND AND/OR ABOVEGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATEVER IN RESPECT TO 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 J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.** 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.
- 32. WHEN PREPARING CABLE FOR SPLICES, THE CONTRACTOR SHALL USE A CABLE STRIPPER/PENCILLER WHENEVER CABLE CONNECTIONS ARE MADE.

GROUNDING NOTES FOR AIRFIELD LIGHTING

- 1. GROUNDING FOR RUNWAY LIGHTS, TAXIWAY LIGHTS, AND LIGHTED TAXI GUIDANCE SIGNS SHALL BE AS DETAILED ON THE PLANS AND AS SPECIFIED HEREIN. PER FAA AC 150/5340-30G DESIGN AND INSTALLATION DETAILS FOR AIRPORT VISUAL AIDS, CHAPTER 12, PART 12.6; A GROUND MUST BE INSTALLED AT EACH LIGHT FIXTURE. THE PURPOSE OF THE LIGHT BASE GROUND IS TO PROVIDE A DEGREE OF PROTECTION FOR MAINTENANCE PERSONNEL FROM POSSIBLE CONTACT WITH AN ENERGIZED LIGHT BASE OR MOUNTING STAKE THAT MAY RESULT FROM A SHORTED POWER CABLE OR ISOLATION TRANSFORMER. A LIGHT BASE GROUND SHALL BE INSTALLED AT EACH TRANSFORMER BASE/LIGHT CAN ASSOCIATED WITH RUNWAY LIGHTS, TAXIWAY LIGHTS, AND LIGHTED TAXI GUIDANCE SIGNS. A LIGHT BASE GROUND SHALL ALSO BE INSTALLED AT EACH STAKE MOUNTED LIGHT FIXTURE. A LIGHT BASE GROUND SHALL BE INSTALLED AND CONNECTED TO THE METAL FRAME OF EACH TAXI GUIDANCE SIGN AS DETAILED ON THE PLANS AND IN ACCORDANCE WITH THE RESPECTIVE TAXI GUIDANCE SIGN MANUFACTURER RECOMMENDATIONS. THE LIGHT BASE GROUND SHALL BE A #6 AWG BARE COPPER CONDUCTOR BONDED TO THE GROUND LUG ON THE RESPECTIVE L-867 TRANSFORMER BASE/LIGHT CAN OR MOUNTING STAKE AND A 3/4-INCH DIAMETER BY 10-FOOT LONG (MINIMUM) UL LISTED COPPER CLAD GROUND ROD. CONNECTIONS TO GROUND LUGS ON THE L-867 TRANSFORMER BASE/LIGHT CAN OR MOUNTING STAKE SHALL BE WITH A UL LISTED GROUNDING CONNECTOR. CONNECTIONS TO GROUND RODS SHALL BE MADE WITH EXOTHERMIC WELD TYPE CONNECTORS, CADWELD BY ERICO PRODUCTS, INC., SOLON, OHIO, (PHONE: 800-248-9353), THERMOWELD BY CONTINENTAL INDUSTRIES, INC., TULSA, OKLAHOMA (PHONE: 918-663-1440), ULTRAWELD BY HARGER, GRAYSLAKE, ILLINOIS (PHONE: 800-842-7437), OR APPROVED EQUAL. EXOTHERMIC WELD CONNECTIONS SHALL BE INSTALLED IN CONFORMANCE WITH THE RESPECTIVE MANUFACTURER'S DIRECTIONS USING MOLDS AS REQUIRED FOR EACH RESPECTIVE APPLICATION. BOLTED CONNECTIONS WILL NOT BE PERMITTED AT GROUND RODS. TOP OF GROUND RODS SHALL BE BURIED 12 INCHES MINIMUM BELOW GRADE, UNLESS SPECIFIED OTHERWISE HEREIN, FOR RESPECTIVE APPLICATIONS.
- 2. FOR BASE MOUNTED LIGHT FIXTURES THE LIGHT FIXTURE MUST BE BONDED TO THE LIGHT BASE INTERNAL GROUND LUG VIA A #6 AWG STRANDED COPPER WIRE RATED FOR 600 VOLTS WITH GREEN XHW INSULATION OR A BRAIDED GROUNDING STRAP OF EQUIVALENT CURRENT RATING. THE GROUND WIRE LENGTH MUST BE SUFFICIENT TO ALLOW THE REMOVAL OF THE LIGHT FIXTURE FROM THE LIGHT BASE FOR ROUTINE MAINTENANCE. SEE THE LIGHT FIXTURE MANUFACTURER'S INSTRUCTIONS FOR PROPER METHODS OF ATTACHING A BONDING WIRE.
- 3. CLEAN ALL METAL SURFACES BEFORE MAKING GROUND CONNECTIONS. METALLIC SURFACES TO BE JOINED SHALL BE PREPARED BY THE REMOVAL OF ALL NON-CONDUCTIVE MATERIAL PER 2011 NATIONAL ELECTRICAL CODE ARTICLE 250-12.
- 4. PER FAA 150/5340-30G THE RESISTANCE TO GROUND OF THE RESPECTIVE MOUNTING STAKE OR LIGHT BASE (WITH GROUND ROD CONNECTED) MUST BE 25 OHMS OR LESS.
- 5. FOR EACH GROUNDING ELECTRODE SYSTEM THE CONTRACTOR SHALL TEST THE MADE ELECTRODE GROUND SYSTEM WITH AN INSTRUMENT SPECIFICALLY DESIGNED FOR TESTING GROUNDING SYSTEMS. TEST RESULTS SHALL BE RECORDED FOR EACH GROUNDING ELECTRODE SYSTEM. IF GROUND RESISTANCE EXCEEDS 25 OHMS CONTACT THE PROJECT ENGINEER FOR FURTHER DIRECTION. COPIES OF THE GROUND SYSTEM TEST RESULTS SHALL BE FURNISHED TO THE RESIDENT PROJECT REPRESENTATIVE/RESIDENT ENGINEER.

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REVISION	
DATE	

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS

IL PROJ.: RPJ-4243
 BLOCK GRANT: 3-17-0087-B15

Hanson Proj. No. 09A0141	Filename E-002-NOTE.dwg	Scale NOT TO SCALE	Date 01/18/2013
LAYOUT	KNL	11/29/12	
DRAWN	BAK	11/29/12	
REVIEWED	KNL	12/18/12	



EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT

ELECTRICAL NOTES
 SHEET 2

ELECTRICAL LEGEND - ONE-LINE DIAGRAM	
	CABLE TERMINATOR/LUG
	TRANSFORMER
	DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	CIRCUIT BREAKER
	THERMAL MAGNETIC CIRCUIT BREAKER
	FUSE
	TRANSIENT VOLTAGE SURGE SUPPRESSOR OR SURGE PROTECTOR DEVICE
	GROUND - GROUND ROD, GROUNDING ELECTRODE, OR AT EARTH POTENTIAL
	INDICATING LIGHT
	MOTOR
	LOAD, MOTOR, # = HORSEPOWER
	ELECTRIC UTILITY METER BASE
	JUNCTION BOX WITH SPLICE
	EQUIPMENT, XXX = DEVICE DESCRIPTION
	GROUND BUS OR TERMINAL
	NEUTRAL BUS
	PANELBOARD WITH MAIN LUGS
	PANELBOARD WITH MAIN BREAKER
	FUSE PANEL WITH MAIN FUSE PULLOUT
	DUPLEX RECEPTACLE 120V SINGLE PHASE GROUNDING TYPE
	CONTROL STATION
	TRANSFER SWITCH
	ENGINE GENERATOR SET

ELECTRICAL LEGEND - SCHEMATIC	
	NORMALLY OPEN (N.O.) CONTACT
	NORMALLY CLOSED (N.C.) CONTACT
	STARTER COIL, * = STARTER NUMBER
	OVERLOAD RELAY CONTACT
	CONTROL RELAY, * = CONTROL RELAY NUMBER
	RELAY, * = RELAY NUMBER
	TOGGLE SWITCH / 2 POSITION SWITCH
	2-POSITION SELECTOR SWITCH
	3-POSITION SELECTOR SWITCH (H-O-A SHOWN)
	2 POLE DISCONNECT SWITCH
	3 POLE DISCONNECT SWITCH
	PHOTOCELL
	TERMINAL BLOCK, * = TERMINAL NUMBER
	DEVICE TERMINAL, * = DEVICE TERMINAL NUMBER
	INTERNAL PANEL WIRING
	FIELD WIRING
	FUSE
	GROUND BUS OR TERMINAL
	NEUTRAL BUS
	GROUND, GROUND ROD, GROUND BUS
	INDUSTRIAL CONTROL RELAY OR LIGHTING CONTACTOR
	S1 CUTOUT HANDLE REMOVED
	S1 CUTOUT HANDLE INSERTED
	N.O. THERMAL SWITCH
	N.C. THERMAL SWITCH
	L-830 SERIES ISOLATION TRANSFORMER

ELECTRICAL ABBREVIATIONS	
A.F.F.	ABOVE FINISHED FLOOR
A, AMP	AMPERES
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CR	CONTROL RELAY
CU	COPPER
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EP	EXPLOSION PROOF
ES	EMERGENCY STOP
ETL	INTERTEK - ELECTRICAL TESTING LABS
ETM	ELAPSE TIME METER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRSC	GALVANIZED RIGID STEEL CONDUIT
HID	HIGH INTENSITY DISCHARGE
HOA	HAND OFF AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
J	JUNCTION BOX
KVA	KILOVOLT AMPERE(S)
KW	KILOWATTS
LC	LIGHTING CONTACTOR
LTFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT (UL LISTED)
LTG	LIGHTING
LP	LIGHTING PANEL
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCM	THOUSAND CIRCUAR MIL
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
NEC	NATIONAL ELECTRICAL CODE (NFPA 70)
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OHE	OVERHEAD ELECTRIC
OL	OVERLOAD

ELECTRICAL ABBREVIATIONS (CONTINUED)	
PB	PULL BOX
PC	PHOTO CELL
PDB	POWER DISTRIBUTION BLOCK
PNL	PANEL
RCPT	RECEPTACLE
R	RELAY
S	STARTER
SPD	SURGE PROTECTION DEVICE
SPST	SINGLE POLE SINGLE THROW
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UL	UNDERWRITER'S LABORATORIES
V	VOLTS
W/	WITH
W/O	WITHOUT
WP	WEATHER PROOF
XFER	TRANSFER
XFMR	TRANSFORMER

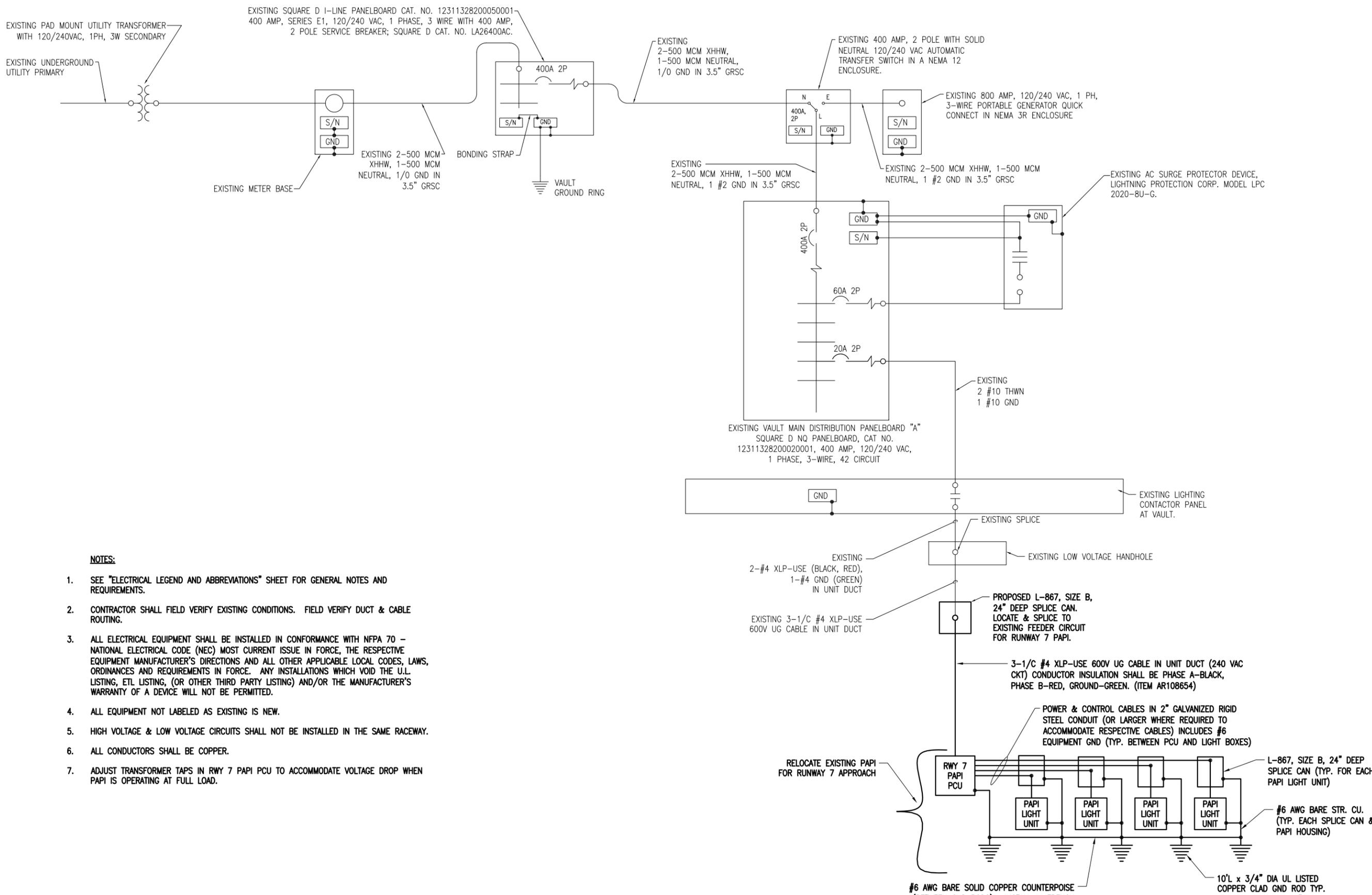
AIRPORT EQUIPMENT/FACILITY ABBREVIATIONS	
ASOS	AUTOMATED SURFACE OBSERVING SYSTEM
ATCT	AIR TRAFFIC CONTROL TOWER
AWOS	AUTOMATED WEATHER OBSERVING SYSTEM
CCR	CONSTANT CURRENT REGULATOR
DME	DISTANCE MEASURING EQUIPMENT
FAR	FEDERAL AVIATION REGULATION
GS	GLIDE SLOPE FACILITY
HIRL	HIGH INTENSITY RUNWAY LIGHT
ILS	INSTRUMENT LANDING SYSTEM
IM	INNER MARKER
LIR	LOW IMPACT-RESISTANT
LOC	LOCALIZER FACILITY
MALS	MEDIUM INTENSITY APPROACH LIGHTING SYSTEM
MALSR	MEDIUM INTENSITY APPROACH LIGHTING SYSTEM WITH RUNWAY ALIGNMENT INDICATING LIGHTS
MIRL	MEDIUM INTENSITY RUNWAY LIGHT
MITL	MEDIUM INTENSITY TAXIWAY LIGHT
NDB	NON-DIRECTIONAL BEACON
PAPI	PRECISION APPROACH PATH INDICATOR
PLASI	PULSE LIGHT APPROACH SLOPE INDICATOR
RAIL	RUNWAY ALIGNMENT INDICATING LIGHTS
REIL	RUNWAY END IDENTIFIER LIGHT
RVR	RUNWAY VISUAL RANGE
VADI	VISUAL APPROACH DESCENT INDICATOR
VASI	VISUAL APPROACH SLOPE INDICATOR
VOR	VERY HIGH FREQUENCY OMNIDIRECTIONAL RANGE FACILITY
WC	WIND CONE

NOTES:

- CONTRACTOR SHALL EXAMINE THE SITE AND VAULT TO DETERMINE EXISTING SITE CONDITIONS.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 - NATIONAL ELECTRICAL CODE (NEC) MOST CURRENT ISSUE IN FORCE, THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES, AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE WILL NOT BE PERMITTED.
- ALL VAULT WORK, POWER OUTAGES, AND/OR SHUT DOWN OF EXISTING SYSTEMS SHALL BE COORDINATED WITH THE AIRPORT MANAGER. ONCE SHUT DOWN, THE CIRCUITS SHALL BE LABELED AS SUCH TO PREVENT ACCIDENTAL ENERGIZING OF THE RESPECTIVE CIRCUITS. ALL PERSONNEL SHALL FOLLOW U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) 29 CFR PART 1910 OCCUPATIONAL SAFETY & HEALTH STANDARDS FOR ELECTRICAL SAFETY AND LOCKOUT/TAGOUT PROCEDURES INCLUDING, BUT NOT LIMITED TO, 29 CFR SECTION 1910.147 THE CONTROL OF HAZARDOUS ENERGY (LOCKOUT/TAGOUT).
- COLOR CODE PHASE AND NEUTRAL CONDUCTOR INSULATION FOR NO. 6 AWG OR SMALLER. PROVIDE COLORED INSULATION OR COLORED MARKING TAPE FOR PHASE AND NEUTRAL CONDUCTORS FOR NO. 4 AWG AND LARGER. INSULATED GROUND CONDUCTORS SHALL HAVE GREEN COLORED INSULATION FOR ALL CONDUCTOR AWG AND/OR KCMIL TO COMPLY WITH NEC 250.119. NEUTRAL CONDUCTORS SHALL HAVE WHITE COLORED INSULATION FOR NO. 6 AWG AND SMALLER TO MEET THE REQUIREMENTS OF NEC 200.6. STANDARD COLORS FOR POWER WIRING AND BRANCH CIRCUITS SHALL BE AS FOLLOWS:

120/240 VAC, 1 PHASE, 3 WIRE	
PHASE A	BLACK
PHASE B	RED
NEUTRAL	WHITE
GROUND	GREEN
- SEE RESPECTIVE SITE PLANS FOR SITE LEGEND INFORMATION.
- LTFMC DENOTES LIQUID TIGHT FLEXIBLE METAL CONDUIT UL LISTED, SUNLIGHT RESISTANT, & SUITABLE FOR GROUNDING. LIQUID TIGHT FLEXIBLE METAL CONDUIT AND ASSOCIATED FITTINGS SHALL BE U.L. LISTED TO MEET THE REQUIREMENTS OF NEC 350.6. LIQUID TIGHT FLEXIBLE METAL CONDUIT THAT IS USED FOR FLEXIBILITY (INCLUDING CONNECTIONS TO CCR'S & TRANSFORMERS) SHALL REQUIRE AN EXTERNAL BONDING JUMPER OR INTERNAL EQUIPMENT GROUNDING CONDUCTOR PER NEC 350.60. EXTERNAL BONDING JUMPERS USED WITH CCR INSTALLATIONS SHALL BE #6 AWG COPPER (MINIMUM). DO NOT INSTALL LTFMC THAT IS NOT UL LISTED. CONFIRM LTFMC BEARS THE UL LABEL PRIOR TO INSTALLATION.
- ALL ENCLOSURES RATED NEMA 4, 4X SHALL HAVE WATERTIGHT HUBS AT CONDUIT ENTRANCES U.L. LISTED NEMA 4, 4X FOR THE RESPECTIVE ENCLOSURE, TO MAINTAIN THE NEMA 4, 4X RATING.
- HIGH VOLTAGE & LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME WIREWAY, CONDUIT, DUCT, OR HANDHOLE.

REVISION	
DATE	
<p>ROCHELLE MUNICIPAL AIRPORT MAJOR THOMAS F. KORITZ FIELD ROCHELLE, OGLE COUNTY, ILLINOIS</p>	
<p>BLOCK GRANT: 3-17-0087-B15 IL PROJ.: RPJ-4243</p>	
Hanson Proj. No. 09A0141	11/29/12
Filename: E-003-ELEC.dwg	KNL
Scale: NOT TO SCALE	BAK
Date: 01/18/2013	KNL
LAYOUT	12/18/12
DRAWN	11/29/12
REVIEWED	KNL
<p>© Copyright Hanson Professional Services Inc. 2012 Hanson Professional Services Inc. 1525 South Main Street Springfield, Illinois 62703-2886</p>	
<p>EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT</p>	
<p>ELECTRICAL LEGEND AND ABBREVIATIONS</p>	
<p>72</p>	
<p>72 of 77 sheets</p>	

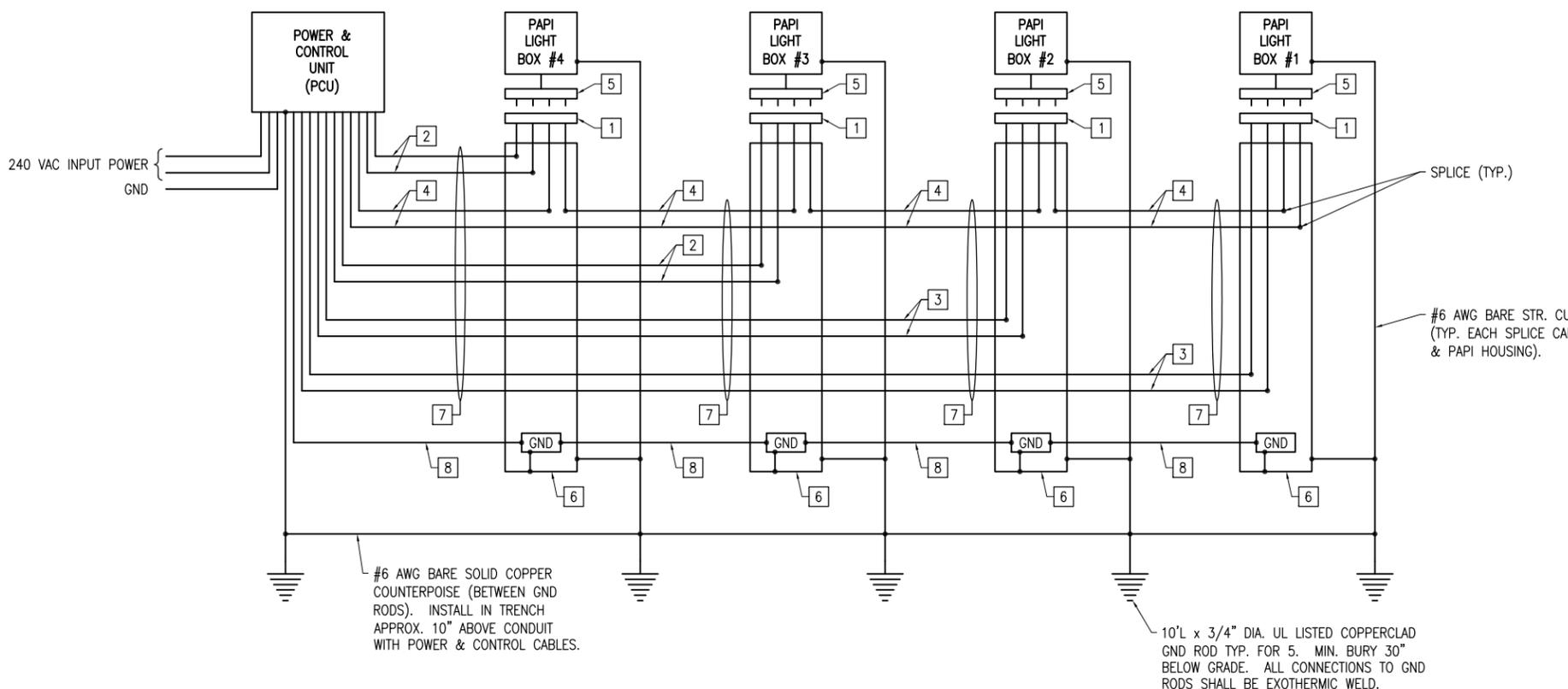


NOTES:

1. SEE "ELECTRICAL LEGEND AND ABBREVIATIONS" SHEET FOR GENERAL NOTES AND REQUIREMENTS.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS. FIELD VERIFY DUCT & CABLE ROUTING.
3. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 - NATIONAL ELECTRICAL CODE (NEC) MOST CURRENT ISSUE IN FORCE, THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING, (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE WILL NOT BE PERMITTED.
4. ALL EQUIPMENT NOT LABELED AS EXISTING IS NEW.
5. HIGH VOLTAGE & LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME RACEWAY.
6. ALL CONDUCTORS SHALL BE COPPER.
7. ADJUST TRANSFORMER TAPS IN RWY 7 PAPI PCU TO ACCOMMODATE VOLTAGE DROP WHEN PAPI IS OPERATING AT FULL LOAD.

ELECTRICAL ONE-LINE DIAGRAM FOR RUNWAY 7 PAPI

<p>REVISION</p> <p>DATE</p>	<p>ROCHELLE MUNICIPAL AIRPORT MAJOR THOMAS F. KORITZ FIELD ROCHELLE, OGLE COUNTY, ILLINOIS</p> <p>IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15</p>
<p>Hanson Prof. No. 09A0141 Filename: E-601-WRG.dwg Scale: NOT TO SCALE Date: 01/18/2013</p>	
<p>LAYOUT</p> <p>DRAWN</p> <p>REVIEWED</p>	<p>11/29/12</p> <p>BAK</p> <p>KNL</p>
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<p>EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT</p> <p>ELECTRICAL ONE-LINE DIAGRAM FOR RUNWAY 7 PAPI</p>	
<p>73</p> <p>73 of 77 sheets</p>	



PAPI FIELD WIRING CONNECTIONS
(FOR CROUSE-HINDS 880A3A-1 PAPI)

NOTES

1. EXISTING RUNWAY 7 PAPI TO BE RELOCATED IS A CROUSE-HINDS CAT. NO. 880A3A-1 PAPI.
2. PAPI FIELD WIRING CONNECTION DIAGRAM IS BASED ON A CROUSE-HINDS PART NO 880A3A-1, L-880 STYLE A PAPI WITH 3 LAMPS PER LIGHT BOX, & INFORMATION PROVIDED BY CROUSE-HINDS FIELD SERVICE SUPPORT CENTER. CONTRACTOR SHALL CONFIRM WIRING REQUIREMENTS WITH THE RESPECTIVE PAPI MANUFACTURER AND ADJUST TO MEET MANUFACTURER INSTRUCTIONS AND RECOMMENDATIONS. POWER WIRING REQUIREMENTS SHOWN ARE MINIMUM, FOR THE RESPECTIVE PAPI SYSTEM.
3. INCLUDE #6 AWG EQUIPMENT GROUND WIRE IN CONDUIT WITH POWER & CONTROL WIRING BETWEEN THE POWER & CONTROL UNIT & THE PAPI LIGHT BOXES.
4. CONDUIT BETWEEN PAPI PCU AND SPLICE CANS AT PAPI LIGHT UNITS SHALL BE GALVANIZED RIGID STEEL CONDUIT.
5. PROVIDE DUCT SEAL FOR CONDUITS ENTERING/LEAVING THE PAPI POWER AND CONTROL UNIT.

KEYED NOTES

- 1 CONSOLIDATING HARNESS, 4 #14 AWG LEADS AS FURNISHED OR REQUIRED BY PAPI MFR.
- 2 OUTGOING POWER FEED FROM POWER & CONTROL UNIT TO THE TWO CLOSEST PAPI LIGHT BOXES (#1 & #2), #8 AWG XLP-USE OR THWN (MIN.)
- 3 OUTGOING POWER FEED FROM POWER & CONTROL UNIT TO THE TWO FURTHEST PAPI LIGHT BOXES (#3 & #4), #6 AWG XLP-USE OR THWN (MIN.)
- 4 TILT SWITCH WIRING #14 AWG XLP-USE OR THWN (MIN.) CONFIRM WIRING WITH PAPI MFR & ADJUST AS APPLICABLE.
- 5 PLUG WITH CABLE ASSEMBLY AS FURNISHED OR REQUIRED BY PAPI MFR.
- 6 L-867, CLASS IA, SIZE B, 24" DEEP SPLICE CAN.
- 7 2" MINIMUM GALVANIZED RIGID STEEL CONDUIT BETWEEN PAPI PCU AND L-867 SPLICE CANS AT PAPI LIGHT UNITS.
- 8 #6 AWG EQUIPMENT GROUND.

REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
MAJOR THOMAS F. KORITZ FIELD
ROCHELLE, OGLE COUNTY, ILLINOIS

IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15

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EXTEND RUNWAY 7-25 TO
A LENGTH OF 5,000 FT

PAPI FIELD WIRING
CONNECTIONS

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REVISION
DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
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EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT
 HIGH VOLTAGE WIRING
 SCHEMATIC FOR
 RUNWAY 7-25

- DIRECTIONS TO TRANSFER RUNWAY 7-25 LIGHTING FROM NORMAL CCR TO SPARE/BACKUP CCR.
1. SHUT OFF RUNWAY 7 REILS (WHERE POWERED BY RUNWAY 7-25 SERIES CIRCUIT) WHEN OPERATING ON SPARE/BACKUP CCR FOR RUNWAY 7-25.
 2. SHUT OFF INPUT POWER (CIRCUIT BREAKER) TO BOTH RWY 7-25 CCR'S & TURN CCR SELECTOR SWITCHES TO OFF.
 3. OPERATE MANUAL TRANSFER SWITCH FOR RWY 7-25 AND MOVE HANDLE FROM "NORMAL" POSITION TO "SPARE/BACKUP" POSITION.
 4. PULL CUTOUT HANDLE FROM NORMAL CCR UNIT & INSERT INTO SPARE CCR CUTOUT.
 5. GO TO RADIO RELAY INTERFACE PANEL & TURN "RWY 7-25 CCR TRANSFER" SELECTOR SWITCH FROM "NORMAL" TO "SPARE" POSITION.
 6. TURN ON INPUT POWER (CIRCUIT BREAKER) TO SPARE RWY 7-25 CCR.
 7. TURN SELECTOR SWITCH ON SPARE CCR TO "REMOTE" POSITION.

PROVIDE PLACARD OR LEGEND PLATE FOR RUNWAY CONSTANT CURRENT REGULATOR PAIR AS NOTED ABOVE: LETTERING TO BE MIN. 1/4" HIGH, BLACK ON WHITE BACKGROUND. LOCATE PLACARD ABOVE OR ADJACENT TO RESPECTIVE CUTOUT ENCLOSURE FOR RUNWAY. NEW PLACARD SHALL REPLACE THE EXISTING PLACARD IN THE VAULT, AND WILL BE CONSIDERED INCIDENTAL TO ITEM AR125610 REILS.

CCR TRANSFER PROCEDURE PLACARD DETAIL

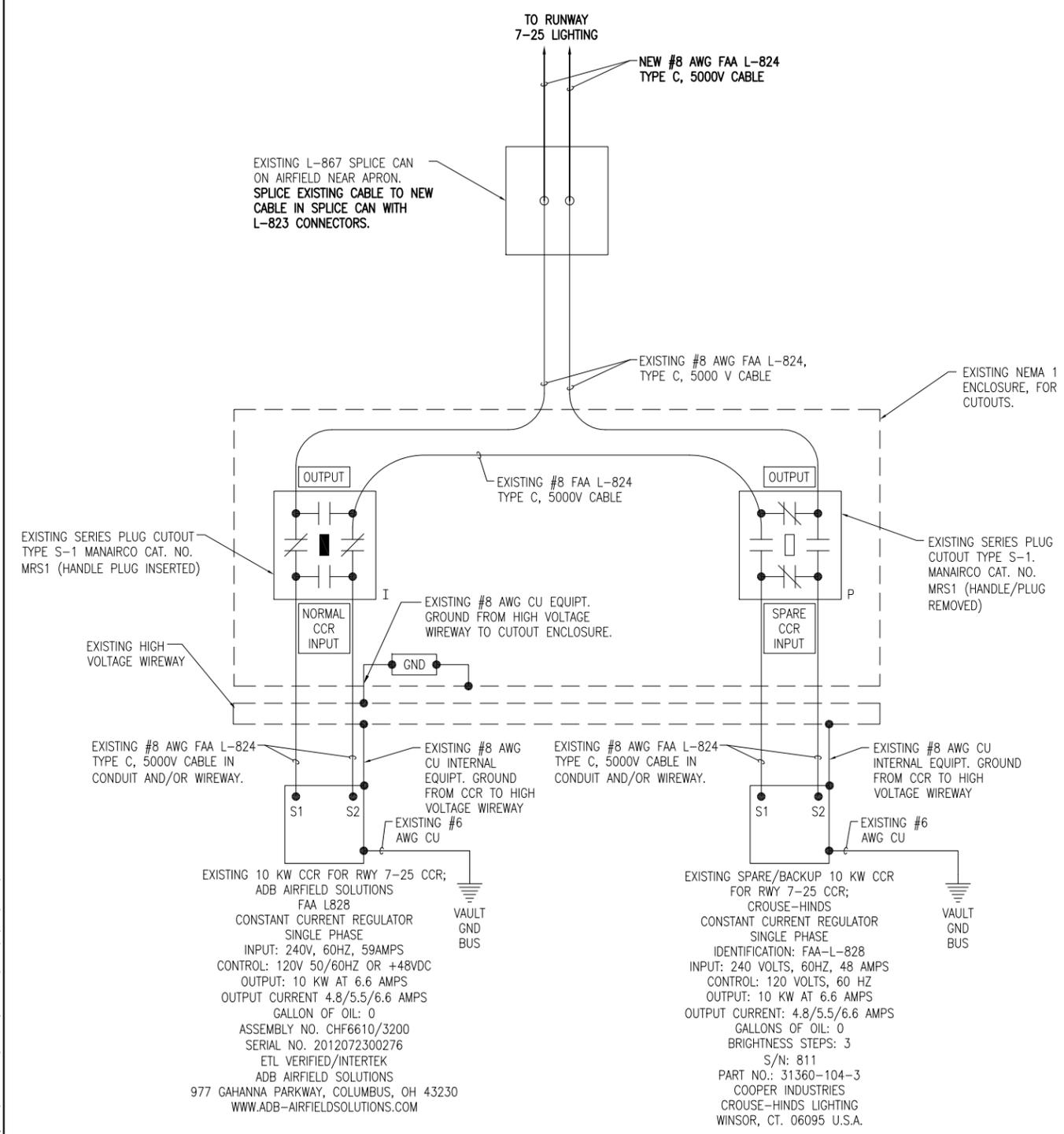
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NOTE

1. RUNWAY 7-25 CCR, BACKUP CCR FOR RUNWAY 7-25, AND CUTOUTS ARE EXISTING TO REMAIN IN PLACE FOR USE WITH THE REPLACEMENT MEDIUM INTENSITY RUNWAY & TAXIWAY LIGHTING SYSTEM.
2. PROVIDE NEW #8 FAA L-824, TYPE C, 5000 VOLT CABLES FOR THE RUNWAY 7-25 LIGHTING SERIES CIRCUIT AND INTERFACE TO EXISTING HOMERUN SERIES CIRCUIT CONDUCTORS AT RESPECTIVE SPLICE CAN LOCATION.
3. BOTH CCR'S SHALL BE TESTED ON THE NEW RUNWAY 7-25 LIGHTING SYSTEM.
 NOTE: DEPENDING UPON THE RUNWAY 7-25 LIGHTING LOADS, THE BACKUP CCR FOR RUNWAY 7-25 MIGHT REQUIRE SOME CONTROL WIRING ADJUSTMENTS, AND/OR OPERATIONAL PROCEDURES, CONTACT THE PROJECT ENGINEER FOR FURTHER DIRECTIONS ON THIS ISSUE.
4. HIGH VOLTAGE AND LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME WIREWAY, CONDUIT, HANDHOLE, JUNCTION BOX, OR RACEWAY.

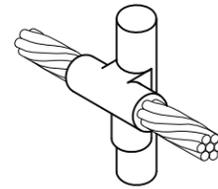
LEGEND

- "I" DENOTES PLUG CUTOUT WITH PLUG INSERTED
- "P" DENOTES PLUG CUTOUT WITH PLUG PULLED
- "CCR" DENOTES CONSTANT CURRENT REGULATOR

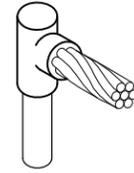


HIGH VOLTAGE WIRING SCHEMATIC FOR RUNWAY 7-25

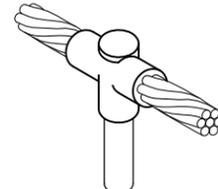
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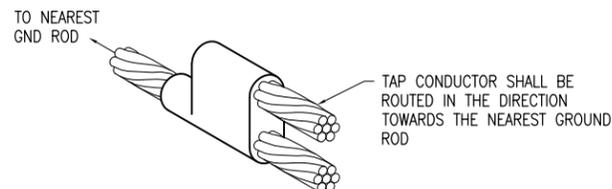
CABLE TO GROUND ROD



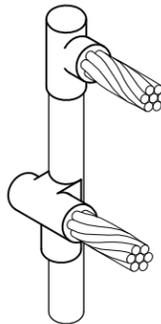
CABLE TO GROUND ROD



CABLE TO GROUND ROD



CABLE TO CABLE HORIZONTAL PARALLEL TAP

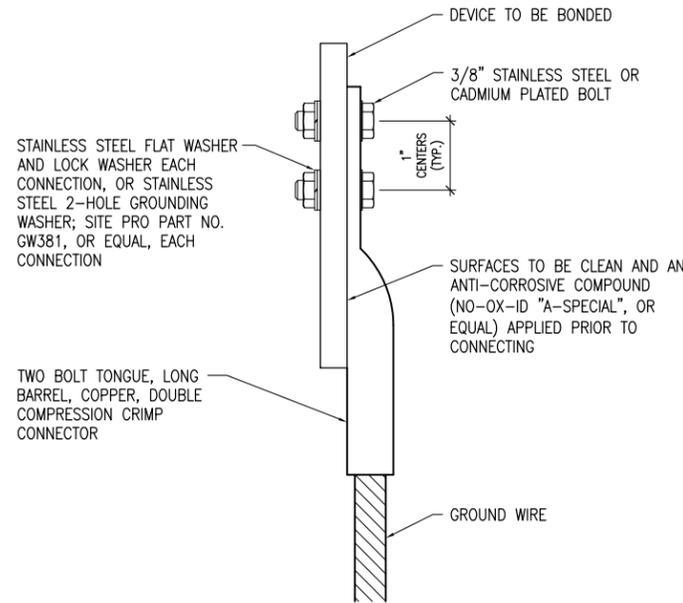


CABLES TO GROUND ROD

DETAIL NOTES

- ALL BELOW GRADE CONNECTIONS TO GROUND RODS & GROUND RING CONDUCTORS SHALL BE EXOTHERMIC WELD TYPE CONNECTIONS. EXOTHERMIC WELDS SHALL BE CADWELD AS MANUFACTURED BY ERICO PRODUCTS, SOLON, OHIO, ULTRAWELD AS MANUFACTURED BY HARGER LIGHTNING PROTECTION & GROUNDING EQUIPMENT, GRAYSLAKE, IL, THERMOWELD AS MANUFACTURED BY CONTINENTAL INDUSTRIES, TULSA, OKLAHOMA, OR APPROVED EQUAL. VERIFY PROPER SIZES, MOLDS, TYPES, AND REQUIREMENTS FOR THE RESPECTIVE APPLICATION WITH THE MANUFACTURER, AND INSTALL PER THEIR DIRECTIONS.
- FOR APPLICATIONS TO GALVANIZED STEEL OR PAINTED STEEL, REMOVE GALVANIZING AND/OR PAINT & CLEAN THE SURFACE TO EXPOSE BARE STEEL BEFORE MAKING EXOTHERMIC WELD CONNECTION.
- INDIVIDUAL GROUNDING ELECTRODE CONDUCTORS SHALL NOT BE INSTALLED IN METAL CONDUIT. INSTALL GROUNDING ELECTRODE CONDUCTORS IN SCHED 40 PVC CONDUIT AS REQUIRED IN FOUNDATIONS, FOR PROTECTION, WHERE ENTERING ENCLOSURES, ETC. WHERE PLASTIC CONDUIT IS USED FOR INDIVIDUAL GROUND WIRES, DO NOT COMPLETELY ENIRCLE THE CONDUIT WITH FERROUS AND/OR MAGNETIC MATERIALS. WHERE METAL CLAMPS ARE INSTALLED USE NYLON BOLTS, NUTS, WASHERS, & SPACERS TO INTERRUPT A COMPLETE METALLIC PATH FROM ENCIRCLING THE CONDUIT.

EXOTHERMIC WELD DETAILS

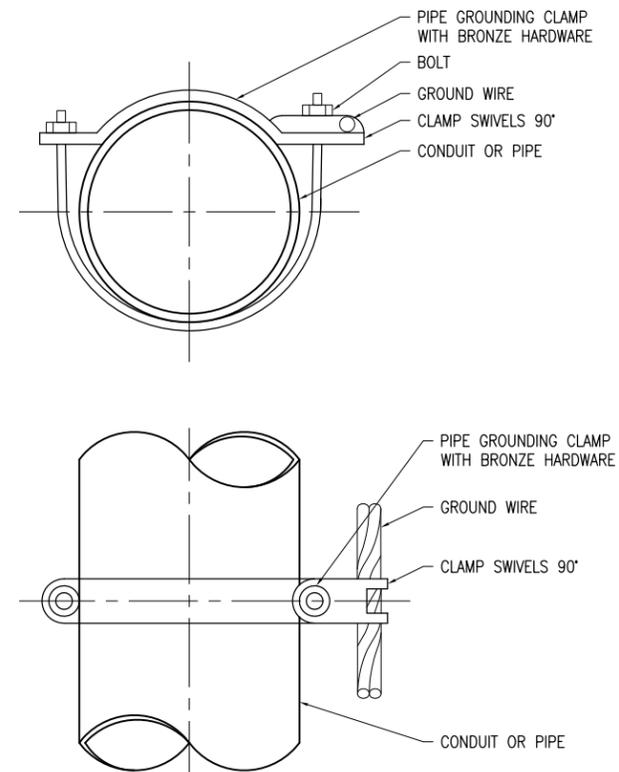


2 HOLE LONG BARREL COMPRESSION LUG TABLE			
WIRE SIZE	BURNDY CAT. NO.	THOMAS & BETTS CAT. NO.	PENN-UNION CAT. NO.
#8 AWG STRANDED	YA8C-2TC38	256-30695-1157	BBLU-8D-2TC38
#6 AWG SOLID	YA8C-2TC38 OR YGA6C-2TC38E2G1		
#6 AWG STRANDED	YA6C-2TC38	256-30695-1158	BBLU-6D-2TC38
#4 AWG STRANDED	YA4C-2TC38	256-30695-1159	BBLU-4D-2TC38
#2 AWG STRANDED	YA2C-2TC38	256-30695-1160	BBLU-2D-2TC38
#2 AWG SOLID	YA3C-2TC38	256-30695-1160	BBLU-3D-2TC38
#1/0 AWG STRANDED	YA25-2TC38	256-30695-1162	BBLU-1/0D-2TC38
#2/0 AWG STRANDED	YA26-2TC38	256-30695-1116	BBLU-2/0D-2TC38
#3/0 AWG STRANDED	YA27-2TC38	54816BE	BBLU-3/0D-2TC38
#4/0 AWG STRANDED	YA28-2TC38	256-30695-1117	BBLU-4/0D-2TC38

NOTES

- ALL CONNECTIONS TO GROUND BUS BAR SHALL BE WITH 2 HOLE TONGUE LONG BARREL COMPRESSION LUGS BOLTED TO THE BUS BAR.
- GROUND WIRE CONNECTIONS TO EQUIPMENT SHALL BE WITH 2 HOLE TONGUE LONG BARREL COMPRESSION LUGS BOLTED TO THE DEVICE OR WITH THE RESPECTIVE EQUIPT MANUFACTURER'S LUG OR TERMINAL WHERE APPLICABLE.
- GROUNDING ELECTRODE CONDUCTORS, BONDING JUMPERS, & INDIVIDUAL GROUND WIRES SHALL NOT BE INSTALLED IN METAL CONDUIT. WHERE PLASTIC CONDUIT IS USED FOR INDIVIDUAL GROUND WIRES, DO NOT COMPLETELY ENIRCLE THE CONDUIT WITH FERROUS AND/OR MAGNETIC MATERIALS. WHERE METAL CLAMPS ARE INSTALLED USE NYLON BOLTS, NUTS, WASHERS, & SPACERS TO INTERRUPT A COMPLETE METALLIC APTH FROM ENCIRCLING THE CONDUIT.
- ALL CONNECTIONS SHALL BE COATED WITH A CORROSION PREVENTATIVE COMPOUND (SANCHEM INC. NO-OX-ID "A-SPECIAL", BURNDY PENETROX E, OR EQUAL) BEFORE JOINING. ALL COPPER BUS BARS SHALL BE CLEANED PRIOR TO MAKING CONNECTIONS TO REMOVE SURFACE OXIDATION. CLEAN SURFACES, OF RESPECTIVE DEVICES TO BE BONDED, TO BARE METAL, PER NEC 250-12.

GROUNDING LUG CONNECTION DETAIL



PIPE GROUNDING CLAMP TABLE	
BURNDY CAT. NO.	PIPE SIZE
GAR3902-BU	1/2" - 1"
GAR3903-BU	1 1/4" - 2"
GAR3904-BU	2 1/2" - 3 1/2"
GAR3905-BU	4" - 5"
GAR3906-BU	6"

NOTES

- PIPE GROUNDING CLAMPS SHALL HAVE BRONZE HARDWARE, BE CORROSION RESISTANT, SUITABLE FOR DIRECT BURIAL IN EARTH OR CONCRETE, & UL467 LISTED.

PIPE/CONDUIT GROUNDING CLAMP DETAIL

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REVISION	DATE

ROCHELLE MUNICIPAL AIRPORT
 MAJOR THOMAS F. KORITZ FIELD
 ROCHELLE, OGLE COUNTY, ILLINOIS
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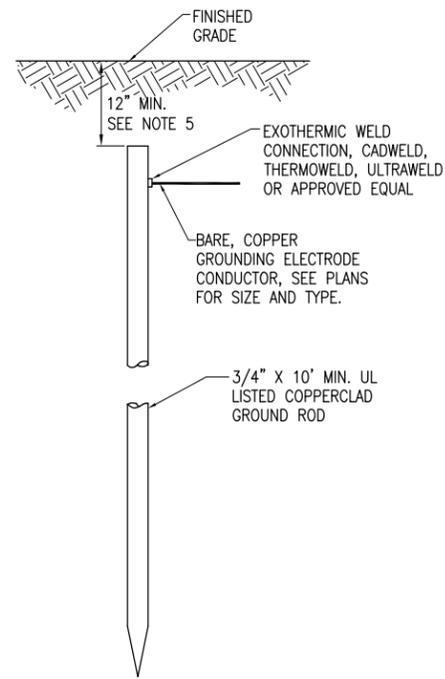
EXTEND RUNWAY 7-25 TO
 A LENGTH OF 5,000 FT

GROUNDING DETAILS

GROUNDING NOTES

- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL GROUNDING AS MAY BE NECESSARY OR REQUIRED TO MAKE A COMPLETE GROUNDING SYSTEM AS REQUIRED BY THE LATEST NATIONAL ELECTRICAL CODE (NFPA 70) IN FORCE AND FAA-STD-019e (LIGHTNING AND SURGE PROTECTION, GROUNDING, BONDING, AND SHIELDING REQUIREMENTS FOR FACILITIES AND ELECTRONIC EQUIPMENT). THE RELIABILITY OF THE GROUNDING SYSTEM IS DEPENDENT ON CAREFUL, PROPER INSTALLATION AND CHOICE OF MATERIALS. IMPROPER PREPARATION OF SURFACES TO BE JOINED TO MAKE AN ELECTRICAL PATH, LOOSE JOINTS OR CORROSION CAN INTRODUCE IMPEDANCE THAT WILL SERIOUSLY IMPAIR THE ABILITY OF THE GROUND PATH TO PROTECT PERSONNEL AND EQUIPMENT AND TO ABSORB TRANSIENTS THAT CAN CAUSE NOISE IN COMMUNICATIONS CIRCUITS. THE FOLLOWING FUNCTIONS ARE PARTICULARLY IMPORTANT TO ENSURE A RELIABLE GROUND SYSTEM:
- FURNISH AND INSTALL GROUND RODS AS DETAILED HEREIN. GROUND RODS FOR AIRFIELD LIGHTING (RUNWAY LIGHTING, TAXIWAY LIGHTING, TAXI GUIDANCE SIGNS, & DISTANCE REMAINING SIGNS) SHALL BE MINIMUM 3/4-IN. DIAMETER BY 10-FT LONG, UL-LISTED COPPER CLAD WITH 10-MIL MINIMUM COPPER COATING. GROUND RODS FOR OTHER APPLICATIONS SHALL BE MINIMUM 3/4-IN. DIAMETER BY 10-FT LONG, UL-LISTED, COPPER CLAD WITH 10-MIL MINIMUM COPPER COATING. GROUND RODS SHALL BE SPACED OR AS DETAILED ON THE RESPECTIVE PLANS, AND IN NO CASE SPACED LESS THAN ONE ROD LENGTH APART. ALL CONNECTIONS TO GROUND RODS AND THE GROUND RING SHALL BE MADE WITH EXOTHERMIC WELD TYPE CONNECTORS, CADWELD BY ERICO PRODUCTS, INC., SOLON, OHIO, (PHONE 1-800-248-9353), THERMOWELD BY CONTINENTAL INDUSTRIES, INC., TULSA, OKLAHOMA (PHONE 918-663-1440) OR ULTRAWELD BY HARGER, GRAYSLAKE, ILLINOIS (PHONE 1-800-842-7437) OR APPROVED EQUAL. EXOTHERMIC WELD CONNECTIONS SHALL BE INSTALLED IN CONFORMANCE WITH THE RESPECTIVE MANUFACTURER'S DIRECTIONS USING MOLDS AS REQUIRED FOR EACH RESPECTIVE APPLICATION. BOLTED CONNECTIONS WILL NOT BE PERMITTED AT GROUND RODS OR AT BURIED GROUNDING ELECTRODE CONDUCTORS.
- CONTRACTOR SHALL TEST EACH MADE ELECTRODE GROUND ROD/GROUND FIELD/GROUND RING WITH AN INSTRUMENT SPECIFICALLY DESIGNED FOR TESTING GROUND FIELD SYSTEMS. IF GROUND RESISTANCE EXCEEDS 25 OHMS, CONTACT THE PROJECT ENGINEER FOR FURTHER DIRECTION. COPIES OF GROUND ROD TEST RESULTS SHALL BE FURNISHED TO THE RESIDENT ENGINEER/RESIDENT PROJECT REPRESENTATIVE.
- ALL PRODUCTS ASSOCIATED WITH THE GROUNDING SYSTEM SHALL BE UL-LISTED AND LABELED.
- ALL BOLTED OR MECHANICAL CONNECTIONS SHALL BE COATED WITH A CORROSION PREVENTATIVE COMPOUND BEFORE JOINING, SANCHEM INC. "NO-OX-ID "A-SPECIAL" COMPOUND, BURNDY PENETROX E, OR EQUAL.
- METALLIC SURFACES TO BE JOINED SHALL BE PREPARED BY THE REMOVAL OF ALL NON-CONDUCTIVE MATERIAL, PER 2011 NATIONAL ELECTRICAL CODE ARTICLE 250-12. ALL COPPER BUS BARS MUST BE CLEANED PRIOR TO MAKING CONNECTIONS TO REMOVE SURFACE OXIDATION.
- METALLIC RACEWAY FITTINGS SHALL BE MADE UP TIGHT TO PROVIDE A PERMANENT LOW IMPEDANCE PATH FOR ALL CIRCUITS. METAL CONDUIT TERMINATIONS IN ENCLOSURES SHALL BE BONDED TO THE ENCLOSURE WITH UL-LISTED FITTINGS SUITABLE FOR GROUNDING. PROVIDE GROUNDING BUSHINGS WITH BONDING JUMPERS FOR ALL METAL CONDUITS ENTERING SERVICE EQUIPMENT (METER BASE, CT CABINET, MAIN SERVICE BREAKER ENCLOSURE, ETC.). PROVIDE GROUNDING BUSHINGS WITH BONDING JUMPERS FOR ALL METAL CONDUITS ENTERING AN ENCLOSURE THROUGH CONCENTRIC OR ECCENTRIC KNOCKOUTS THAT ARE PUNCHED OR OTHERWISE FORMED SO AS TO IMPAIR THE ELECTRICAL CONNECTION TO GROUND. STANDARD LOCKNUTS OR BUSHINGS SHALL NOT BE THE SOLE MEANS FOR BONDING WHERE A CONDUIT ENTERS AN ENCLOSURE THROUGH A CONCENTRIC OR ECCENTRIC KNOCKOUT
- ALL CONNECTIONS, LOCATED ABOVE GRADE, BETWEEN THE DIFFERENT TYPES OF GROUNDING CONDUCTORS SHALL BE MADE USING UL-LISTED DOUBLE COMPRESSION CRIMP TYPE CONNECTORS OR UL-LISTED BOLTED GROUND CONNECTORS. FOR GROUND CONNECTIONS TO ENCLOSURES, CASES AND FRAMES OF ELECTRICAL EQUIPMENT NOT SUPPLIED WITH GROUND LUGS THE CONTRACTOR SHALL DRILL REQUIRED HOLES FOR MOUNTING A BOLTED GROUND CONNECTOR. ALL BOLTED GROUND CONNECTORS SHALL BE BURNDY, THOMAS AND BETTS, OR EQUAL. TIGHTEN CONNECTIONS TO COMPLY WITH TIGHTENING TORQUES IN UL STANDARD 486A TO ASSURE PERMANENT AND EFFECTIVE GROUNDING.
- ALL METAL EQUIPMENT ENCLOSURES, CONDUITS, CABINETS, BOXES, RECEPTACLES, MOTORS, ETC. SHALL BE BONDED TO THE RESPECTIVE GROUNDING SYSTEM.
- PROVIDE ALL BOXES FOR PROPOSED OUTLETS, SWITCHES, CIRCUIT BREAKERS, ETC. WITH GROUNDING SCREWS. PROVIDE ALL PANELBOARD, SWITCHGEAR, ETC., ENCLOSURES WITH GROUNDING BARS WITH INDIVIDUAL SCREWS, LUGS, CLAMPS, ETC., FOR EACH OF THE GROUNDING CONDUCTORS THAT ENTER THEIR RESPECTIVE ENCLOSURES.
- EACH NEW FEEDER CIRCUIT AND/OR BRANCH CIRCUIT SHALL INCLUDE AN EQUIPMENT GROUND WIRE. METAL RACEWAY OR CONDUIT SHALL NOT MEET THIS REQUIREMENT. THE EQUIPMENT GROUND WIRE FROM EQUIPMENT SHALL NOT BE SMALLER THAN ALLOWED BY 2011 NEC TABLE 250-122 "MINIMUM SIZE CONDUCTORS OR GROUNDING RACEWAY AND EQUIPMENT." WHEN CONDUCTORS ARE ADJUSTED IN SIZE TO COMPENSATE FOR VOLTAGE DROP, EQUIPMENT-GROUNDING CONDUCTORS SHALL BE ADJUSTED PROPORTIONATELY ACCORDING TO CIRCULAR MIL AREA. ALL EQUIPMENT GROUND WIRES SHALL BE COPPER, EITHER BARE OR INSULATED GREEN IN COLOR. WHERE THE EQUIPMENT GROUNDING CONDUCTORS ARE INSULATED, THEY SHALL BE IDENTIFIED BY THE COLOR GREEN, AND SHALL BE THE SAME INSULATION TYPE AS THE PHASE CONDUCTORS.

- ALL EXTERIOR METAL CONDUIT, WHERE NOT ELECTRICALLY CONTINUOUS BECAUSE OF MANHOLES, HANDHOLES, NON-METALLIC JUNCTION BOXES, ETC., SHALL BE BONDED TO ALL OTHER METAL CONDUIT IN THE RESPECTIVE DUCT RUN, AND AT EACH END, WITH A COPPER-BONDING JUMPER SIZED IN CONFORMANCE WITH 2011 NEC 250-102. WHERE METAL CONDUITS TERMINATE IN AN ENCLOSURE (SUCH AS A MOTOR CONTROL CENTER, SWITCHBOARD, ETC) WHERE THERE IS NOT ELECTRICAL CONTINUITY WITH THE CONDUIT AND THE RESPECTIVE ENCLOSURE, PROVIDE A BONDING JUMPER FROM THE RESPECTIVE ENCLOSURE GROUND BUS TO THE CONDUIT SIZED PER 2011 NEC 250-102.
- IT IS THE INTENT OF THIS SPECIFICATION THAT ALL MOTOR FRAMES, PUMP BASES ELECTRICAL EQUIPMENT ENCLOSURES, PANEL HOUSINGS, CONDUITS, BOXES, ETC. HAVE A CONTINUOUS COPPER WIRE GROUND CONNECTION AND SHALL BE POSITIVELY BONDED TO THE RESPECTIVE GROUNDING SYSTEM. CONDUIT CONNECTORS WILL NOT BE CONSIDERED AS ADEQUATE GROUNDING.
- PROVIDE A POSITIVE GROUND BOND FOR ALL OUTLET BOXES, ELECTRICAL EQUIPMENT ENCLOSURES, GROUNDING RECEPTACLES, TOGGLE SWITCHES, ETC. INSTALL A GROUNDING CONDUCTOR IN ALL WIRE AND CABLE RACEWAYS. GROUND CONDUCTOR TO HAVE 600-VOLT INSULATION AND BE IDENTIFIED BY A CONTINUOUS GREEN COLOR COATING. THEY SHALL BE USED SOLELY FOR GROUNDING PURPOSES AND BE ENTIRELY SEPARATE FROM WHITE GROUNDED NEUTRAL CONDUCTOR, EXCEPT AT SUPPLY SIDE OF SERVICE DISCONNECTING MEANS, WHERE GROUNDING AND NEUTRAL SYSTEMS ARE TO BE CONNECTED TO SERVICE GROUND.
- EACH AND ALL GROUNDED CASED AND METAL PARTS ASSOCIATED WITH ELECTRICAL EQUIPMENT SHALL BE TESTED FOR CONTINUITY OF CONNECTION WITH GROUND BUS SYSTEM BY CONTRACTOR IN PRESENCE OF OWNER'S REPRESENTATIVE.
- ALL CONNECTIONS BETWEEN THE DIFFERENT TYPES OF GROUNDING CONDUCTORS ABOVE GRADE SHALL BE MADE USING BOLTED GROUND CONNECTORS. GROUND LUGS SHALL BE PROVIDED IN ALL ENCLOSURES AND WIRING TERMINATION JUNCTION BOXES. EQUIPMENT GROUNDS AND GROUNDING CONDUCTOR SHALL BE CONNECTED TO THESE GROUND LUGS. FOR GROUND CONNECTIONS TO ENCLOSURES, CASES AND FRAMES OF ELECTRICAL EQUIPMENT NOT SUPPLIED WITH GROUND LUGS THE CONTRACTOR SHALL DRILL REQUIRED HOLES FOR MOUNTING A BOLTED GROUND CONNECTOR. ALL BOLTED GROUND CONNECTORS SHALL BE BURNDY, OR APPROVED EQUAL.
- BOND ALL NONCURRENT-CARRYING PARTS OF METAL EQUIPMENT TO GROUND SYSTEM.
- BUILDING STRUCTURAL STEEL SYSTEM SHALL BE BONDED TO ELECTRICAL GROUND SYSTEM.
- INSTALL GROUNDING ELECTRODE CONDUCTORS, LIGHTNING PROTECTION DOWN CONDUCTORS AND SEPARATE GROUND CONDUCTORS IN SCHEDULE 40 OR SCHEDULE 80 PVC CONDUIT OR EXPOSED WHERE ACCEPTABLE TO LOCAL CODES. WHERE GROUNDING ELECTRODE CONDUCTORS, LIGHTNING PROTECTION DOWN CONDUCTORS OR INDIVIDUAL GROUND CONDUCTORS ARE RUN IN PVC CONDUIT, DO NOT COMPLETELY ENCIRCLE CONDUIT WITH FERROUS AND/OR MAGNETIC MATERIALS. USE NON-METALLIC REINFORCED FIBERGLASS STRUT SUPPORT. WHERE METAL CONDUIT CLAMPS ARE INSTALLED, USE NYLON BOLTS, NUTS, WASHERS AND SPACERS TO INTERRUPT A COMPLETE METALLIC PATH FROM ENCIRCLING THE CONDUIT. THIS IS REQUIRED TO AVOID GIRDLING OF GROUND CONDUCTORS. GIRDLING OF A GROUND CONDUCTOR IS THE RESULT OF PLACING THE CONDUCTOR IN A RING OF MAGNETIC MATERIAL. THIS RING COULD BE A METALLIC CONDUIT, U-BOLT OR STRUT SUPPORT PIPE CLAMP, OR OTHER SUPPORT HARDWARE. THE RESULT OF GIRDLING GROUND CONDUCTORS SIGNIFICANTLY INCREASES THE INDUCTIVE IMPEDANCE OF THE GROUND CONDUCTOR. INDUCTIVE AND CAPACITIVE IMPEDANCE IS A TYPE OF RESISTANCE THAT OPPOSES THE FLOW OF ALTERNATING CURRENT. ANY INCREASE IN THE IMPEDANCE OF A GROUND CONDUCTOR REDUCES ITS ABILITY TO EFFECTIVELY MITIGATE RADIO FREQUENCY NOISE IN THE GROUND SYSTEM. THE CONDITION WHERE A GROUND CONDUCTOR IS GIRDLED DURING A LIGHTNING STRIKE RESULTS IN PHENOMENA KNOWN AS SURGE IMPEDANCE LOADING. SURGE IMPEDANCE LOADING IS A RESULT OF VOLTAGE AND CURRENT REACHING 500,000 VOLTS AND 10,000 AMPS FOR A SHORT DURATION. GIRDLING FURTHER INCREASES THE IMPEDANCE AT LIGHTNING FREQUENCIES OF 100 KILOHERTZ TO 100 MEGAHERTZ. AT THESE POWER AND FREQUENCY LEVELS ANY INCREASE IN THE IMPEDANCE OF THE GROUND CONDUCTOR MUST BE CONTROLLED. DURING LIGHTNING DISCHARGE CONDITIONS A LOW INDUCTIVE IMPEDANCE PATH IS MORE IMPORTANT THAN A LOW DC RESISTANCE PATH.
- IF LOCAL CODES DICTATE THAT INDIVIDUAL GROUNDING CONDUCTORS MUST BE RUN IN METAL CONDUIT OR RACEWAY, THEN THE CONDUIT OR RACEWAY MUST BE BONDED AT EACH END OF THE RUN WITH A BONDING JUMPER SIZED EQUAL TO THE INDIVIDUAL GROUNDING CONDUCTOR OR AS REQUIRED BY 2011 NEC 250-102. NOTE THIS DOES NOT APPLY TO AC EQUIPMENT GROUNDING CONDUCTORS RUN WITH AC CIRCUITS.
- WHERE A CONFLICT IS DETERMINED WITH RESPECT TO GROUNDING REQUIREMENTS PER MANUFACTURER INSTALLATION INSTRUCTIONS, NEC, AND/OR THE CONTRACT DOCUMENTS, CONTACT THE RESIDENT ENGINEER OR PROJECT ENGINEER FOR FURTHER DIRECTIONS.
- GROUND RODS SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA TO COMPLY WITH THE AIRPORT IMPROVEMENT PROGRAM BUY AMERICAN REQUIREMENTS. STEEL USED TO MANUFACTURER GROUND RODS SHALL BE 100 PERCENT DOMESTIC STEEL.



10 FT. GROUND ROD

NOTES

- TYPE AND MINIMUM NUMBER OF GROUND RODS SHALL BE AS SPECIFIED ON THE PLAN.
- THE RESISTANCE TO GROUND OF THE GROUNDING SYSTEM SHALL NOT EXCEED 25 OHMS.
- COST OF GROUND RODS IS INCIDENTAL TO THE ASSOCIATED ITEMS REQUIRING GROUNDING UNLESS OTHERWISE SPECIFIED.
- GROUND RODS SHALL BE SPACED AS DETAILED ON THE PLANS AND SHALL NOT BE SPACED LESS THAN ONE ROD LENGTH APART.
- TOP OF GROUND RODS SHALL BE 12" MINIMUM BELOW GRADE UNLESS DETAILED OTHERWISE HEREIN.
- GROUND RODS FOR RUNWAY LIGHTING, TAXIWAY LIGHTING, AND TAXI GUIDANCE SIGNS SHALL BE A MINIMUM 3/4-INCH DIAMETER BY 10-FT LONG UL LISTED COPPER CLAD.

GROUND RODS

(NOT TO SCALE)

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REVISION					
DATE					
<p>ROCHELLE MUNICIPAL AIRPORT MAJOR THOMAS F. KORITZ FIELD ROCHELLE, OGLE COUNTY, ILLINOIS</p> <p>IL PROJ.: RPJ-4243 BLOCK GRANT: 3-17-0087-B15</p>					
Hanson Proj. No. 09A0141	Filename E-004-NOTE.dwg	Scale NOT TO SCALE	Date 01/18/2013	LAYOUT KNL 11/29/12	DRAWN BAK 11/29/12
				REVIEWED KNL 12/18/12	
<p>© Copyright Hanson Professional Services Inc. 2012 Hanson Professional Services Inc. 1525 South Main Street Springfield, Illinois 62703-2886</p>					
<p>EXTEND RUNWAY 7-25 TO A LENGTH OF 5,000 FT</p>			<p>GROUNDING NOTES</p>		
<p>77 77 of 77 sheets</p>					