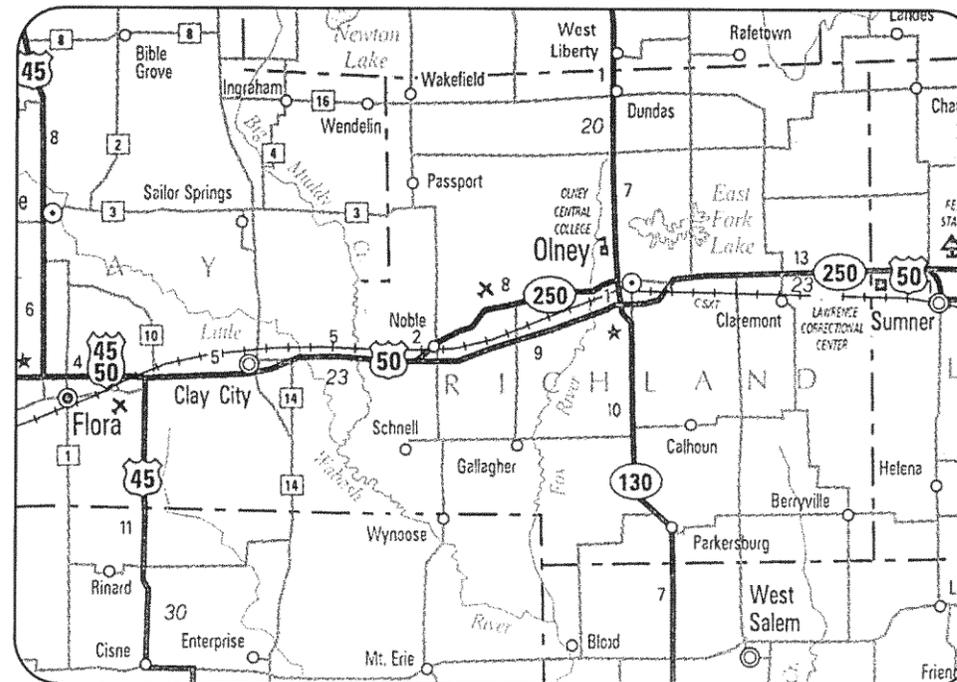


CONSTRUCTION PLANS FOR OLNEY-NOBLE AIRPORT OLNEY, RICHLAND COUNTY, ILLINOIS REHABILITATE AUTO PARKING LOT; CONSTRUCT T-HANGAR ACCESS ROAD

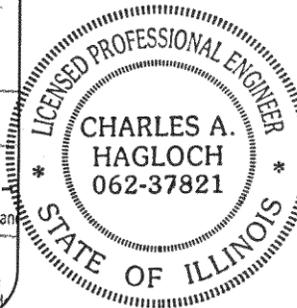
SCOPE OF WORK

THIS PROJECT CONSISTS OF THE REHABILITATION OF THE AIRPORT AUTO PARKING LOT WITH A POROUS FRICTION COURSE, 0.10' AND A BITUMINOUS OVERLAY. ALSO INCLUDED IS THE CONSTRUCTION OF A T-HANGAR AREA ACCESS ROAD. ASSOCIATED WORK ITEMS CONSIST OF CRACK CLEANING AND SEALING, PAVEMENT MILLING, FENCING, DRAINAGE, PAVEMENT MARKING, SEEDING AND MULCHING.

**COVERING
ELECTRICAL DESIGN**



LOCATION



ELECTRICAL ENGINEER

Submitted by: *Kevin N. Lightfoot* ENG'R
Date Submitted: 5/7/2010
Lic. Exp. Date: 11/30/2011



CIVIL ENGINEER

Submitted by: *Charles A. Hagloch* ENG'R
Date Submitted: MAY 7, 2010
Lic. Exp. Date: Nov. 30, 2011

OLNEY-NOBLE AIRPORT AUTHORITY

Approved: *[Signature]* CHAIRMAN
Date: 4/5/2010
Approved: *[Signature]* SECRETARY
Date: 4-05-10



ILL. PROJ.: OLY-3926
A.I.P. PROJ.: 3-17-0076-B9
LATITUDE: 38° 44' 00"
LONGITUDE: 88° 10' 33"
ELEVATION: 481.0' M.S.L.
DATE: MARCH 19, 2010

Revised 05/05/10

DATE	REVISION

OLNEY-NOBLE AIRPORT
OLNEY, ILLINOIS

Hanson Project No. 09A01460_0800	LAYOUT	JED	11/05/09
Filename: R-001CVR.DWG	DRAWN	JED	11/05/09
Scale: NOT TO SCALE	REVIEWED	CAH	xx/xx/xx
Date: 11/05/09			

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REHABILITATE
AUTO PARKING LOT

COVER SHEET

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DATE	REVISION	BY

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITIES	AS BUILT QUANTITIES
AR109924	REPLACE ELECTRIC SERVICES	L.S.	1	
AR110014	4" DIRECTIONAL BORE	L.F.	270	
AR110204	4" PVC DUCT, DIRECT BURY	L.F.	26	
AR110610	ELECTRICAL HANDHOLE	EACH	1	
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1	
AR152410	UNCLASSIFIED EXCAVATION	C.Y.	83	
AR152442	OFFSITE BORROW EXCAVATION	C.Y.	152	
AR152480	SHOULDER ADJUSTMENT	S.Y.	116	
AR162724	ELECTRIC GATE - 24'	EACH	1	
AR162905	REMOVE GATE	EACH	1	
AR162960	RELOCATE CLASS E FENCE	L.F.	80	
AR162964	RELOCATE GATE	EACH	1	
AR162980	REHANG GATE	EACH	1	
AR201661	CLEAN & SEAL BITUMINOUS CRACKS	L.F.	983	
AR209510	CRUSHED AGGREGATE BASE COURSE	TON	134	
AR401610	BITUMINOUS SURFACE COURSE	TON	236	
AR401655	BUTT JOINT CONSTRUCTION	S.Y.	119	
AR402622	POROUS FRICTION COURSE. 0.10'	S.Y.	1,761	
AR501600	PCC SIDEWALK	S.F.	68	
AR501900	REMOVE PCC PAVEMENT	S.Y.	2.25	
AR602510	BITUMINOUS PRIME COAT	GAL.	96	
AR603510	BITUMINOUS TACK COAT	GAL.	775	
AR620520	PAVEMENT MARKING-WATERBORNE	S.F.	271	
AR701518	18" RCP, CLASS IV	L.F.	40	
AR752418	PRECAST REINFORCED CONC. FES 18"	EACH	2	
AR901510	SEEDING	ACRE	0.35	
AR908510	MULCHING	ACRE	0.35	
AR910230	HANDICAP SIGN	EACH	2	
AR910410	PARKING BLOCK	EACH	11	

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SUMMARY OF QUANTITIES AND INDEX TO SHEETS
3	PROPOSED SAFETY PLAN
4	SUMMARY OF QUANTITIES FOR REHABILITATE AUTO PARKING LOT
5	PROPOSED CONSTRUCTION PLAN
6	PROPOSED TYPICAL SECTION AND NOTES
7	PROPOSED PAVEMENT PREPARATION PLAN
8	PROPOSED MARKING PLAN
9	PROPOSED PARKING LOT CROSS-SECTIONS STA. 27+00 TO STA. 28+75
10	SUMMARY OF QUANTITIES FOR T-HANGAR ACCESS ROAD
11	PROPOSED SITE PLAN
12	PROPOSED TYPICAL SECTION AND NOTES
13	PROPOSED PLAN AND PROFILE
14	PROPOSED GRADING PLAN
15	PROPOSED MARKING PLAN
16	EXISTING FENCING PLAN
17	ELECTRICAL LEGEND AND ABBREVIATIONS
18	NEW ACCESS ROAD SITE PLAN
19	ACCESS ROAD EXISTING ELECTRICAL ONE-LINE
20	ACCESS ROAD PROPOSED ELECTRICAL ONE-LINE
21	PROPOSED ELECTRIC SLIDE GATE DETAILS
22	ACCESS ROAD PROPOSED ELECTRICAL DETAILS SHEET
23	PROPOSED T-HANGAR ACCESS ROAD CROSS-SECTIONS STA. 1+75 TO STA. 2+50
24	PROPOSED T-HANGAR ACCESS ROAD CROSS-SECTIONS STA. 2+65.5 TO STA. 2+89.5

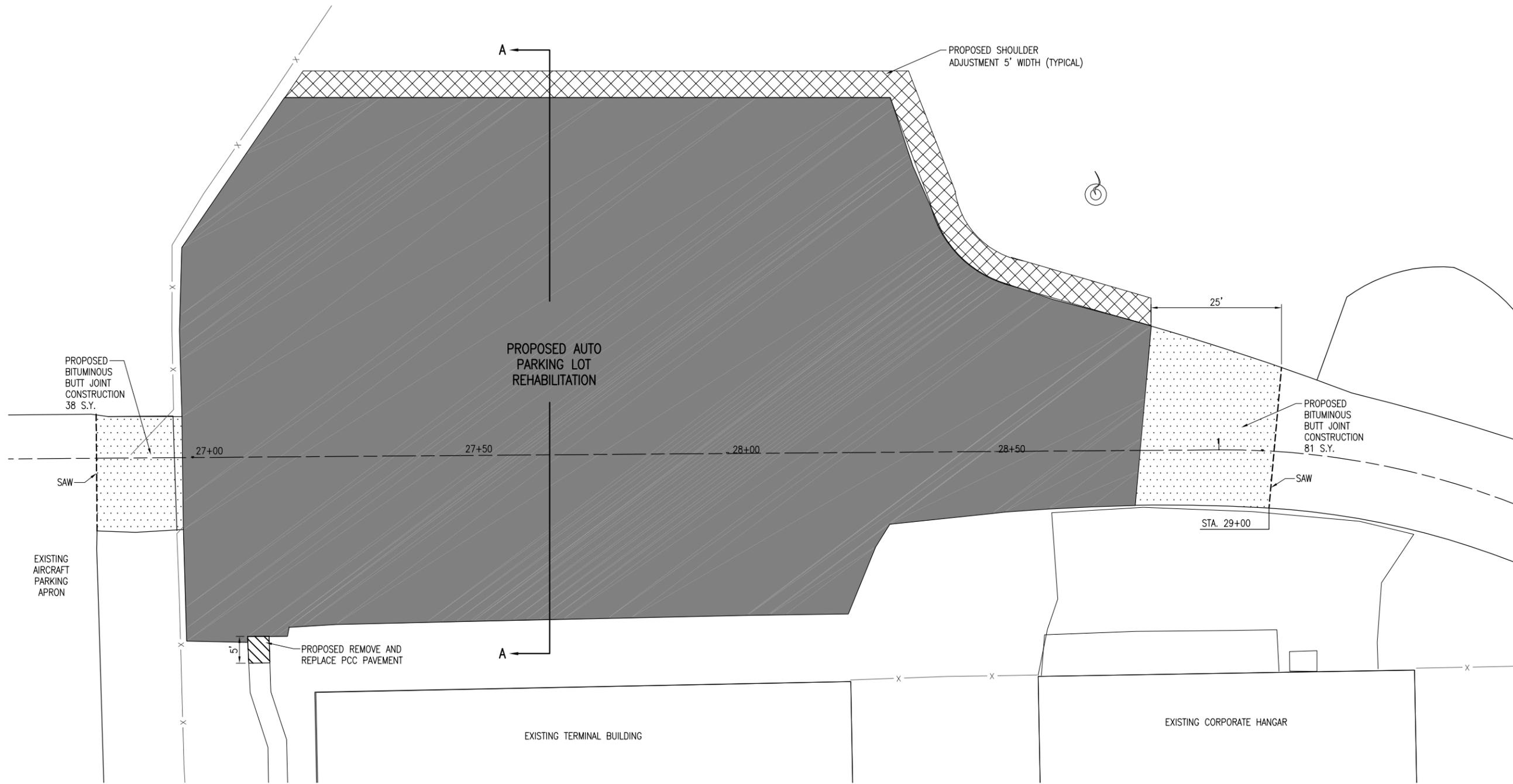
**OLNEY-NOBLE AIRPORT
OLNEY, ILLINOIS**

Hanson Project No. 09A0146D_0800	LAYOUT	JEO	11/05/09
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Date 11/05/09			



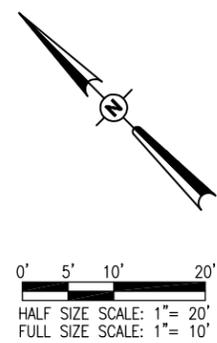
REHABILITATE
AUTO PARKING LOT
SUMMARY OF QUANTITIES
AND
INDEX TO SHEETS

APR 27, 2010 9:21 AM HAGL000382 I:\AIRPORTS\OLNEY\09A0146\CADD\AIRPORT\SHEET\R-121CON.DWG - Layout1



LEGEND

	EXISTING IMPROVEMENTS
	EXISTING BUILDINGS
	PROPOSED IMPROVEMENTS
	PROPOSED BITUMINOUS BUTT JOINT CONSTRUCTION
	PROPOSED REMOVE AND REPLACE PCC PAVEMENT
	PROPOSED SHOULDER ADJUSTMENT



REVISION	DATE	BY

**OLNEY-NOBLE AIRPORT
OLNEY, ILLINOIS**

Hanson Project No. 09A0146D_0800	
Filename: R-121CON.DWG	Date: 11/05/09
Scale: 1" = 10'	LAYOUT: JEO 11/05/09
	DRAWN: JEO 11/05/09
	REVIEWED: CAH xx/xx/xx

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Offices Nationwide

**REHABILITATE
AUTO PARKING LOT
PROPOSED
CONSTRUCTION
PLAN**

IL PROJ.: 01Y-3926 A.I.P. PROJ.: 3-17-0076-B9

POROUS FRICTION COURSE

THE PROPOSED FRICTION COURSE (402) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR402622 POROUS FRICTION COURSE, 0.10' AS STATED ON PAGE 156 OF THE ILLINOIS STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED NOVEMBER 2, 2009.

THE PROPOSED POROUS FRICTION COURSE WILL BE CONSTRUCTED IN ONE LAYER, HAVING A MINIMUM COMPACTED THICKNESS OF 0.08 FOOT.

POROUS FRICTION COURSE SHALL BE PLACED ON A CLEAN AND PREPARED SURFACE ONLY AFTER THE APPROVAL OF THE RESIDENT ENGINEER.

POROUS FRICTION COURSE WILL BE CONSTRUCTED IN THE LOCATIONS SHOWN ON THE CONSTRUCTION PLANS AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

NO STRING LINE WILL BE REQUIRED DURING THE PLACEMENT OF THE POROUS FRICTION COURSE.

THE POROUS FRICTION COURSE WILL BE PAID FOR UNDER ITEM:

AR402622 POROUS FRICTION COURSE, 0.1' _ _ PER S.Y.

P.C.C. PAVEMENT REMOVAL AND REPLACEMENT

THE AREA DESIGNATED AS  ON THE PARKING LOT CONSTRUCTION PLAN SHEET WILL HAVE THE EXISTING P.C.C. PAVEMENT ADJUSTED TO MATCH THE PROPOSED PAVEMENT. ALL REMOVED MATERIAL WILL BE DISPOSED OF OFF THE AIRPORT SITE.

THE EXISTING P.C.C. PAVEMENT WILL BE REMOVED TO THE JOINT THAT IS NEAREST TO THE DIMENSIONS SHOWN ON SHEET NO 5.

THE REMOVAL OF THE P.C.C. PAVEMENT WILL BE PAID FOR UNDER ITEM: AR501900 "REMOVE PCC PAVEMENT" - PER SQ.YD.

THE PROPOSED CONCRETE WILL BE IN ACCORDANCE WITH ITEM 610.

THE PROPOSED CONCRETE PAVEMENT WILL BE PAID FOR UNDER ITEM: AR501600 "P.C.C. SIDEWALK" - PER S.F.

SHOULDER ADJUSTMENT NOTE

THE GRADING WILL HAVE A 1-1/2" DROP FROM THE PAVEMENT EDGE AND TAPERING TO THE EXISTING GROUND IN FIVE FEET. THIS WILL BE THE FINAL GRADE UPON COMPLETION OF THE SEEDING & MULCHING. THE EARTH FILLETS WILL NOT REQUIRE COMPACTING OR GRADING, OTHER THAN LIGHT ROLLING AND SHAPING. THE MATERIAL FOR THE PROPOSED EARTH FILLETS WILL BE TOPSOIL OBTAINED FROM OFF-SITE. THE OFF-SITE MATERIAL WILL BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO HAULING TO THE PROJECT SITE. THE REQUIREMENTS FOR PH, ORGANIC MATTER AND GRADATION WILL BE WAIVED PROVIDED THE TOPSOIL MATERIAL WILL SUSTAIN THE GROWTH OF GRASS.

THE EXISTING SHOULDER AREA WILL BE MOWED AND DISKED/TILLED PRIOR TO PLACING THE EARTH MATERIAL. THE AREA WILL BE DISKED/TILLED UNTIL THE SOD HAS BEEN COMPLETELY CUT UP. ANY CHUNKS OF SOD WILL BE REMOVED PRIOR TO THE PLACEMENT OF THIS EARTH MATERIAL.

THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS WHEN HAULING BORROW MATERIAL SO AS NOT TO CREATE RUTS IN ADJACENT EARTH AREAS. ALL EXISTING GRADED OR TURFED AREAS OUTSIDE THE GRADING LIMITS WHICH ARE DISTURBED OR RUTTED BY THE CONTRACTOR DURING THE HAULING OPERATION SHALL BE REGRADED AND RETURFED AT HIS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.

THE MATERIAL FOR THE PROPOSED EARTH FILLETS WILL BE PAID FOR UNDER ITEM:

AR152480 "SHOULDER ADJUSTMENT" PER SQUARE YARDS.

QUANTITY OF SHOULDER ADJUSTMENT _____ 116 S.Y.

603-BITUMINOUS TACK COAT NOTES:

THE BITUMINOUS TACK COAT (603) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR603 "BITUMINOUS TACK COAT" AS STATED ON PAGE 254 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED NOVEMBER 2, 2009.

THE PROPOSED BITUMINOUS TACK COAT SHALL BE PLACED ON THE PROPOSED BITUMINOUS PAVEMENT PRIOR TO THE PLACEMENT OF THE NEXT LIFT OF PROPOSED BITUMINOUS MATERIAL.

THE PROPOSED BITUMINOUS TACK COAT WILL BE PAID FOR UNDER ITEM: AR603510 BITUMINOUS TACK COAT _____ PER GAL.

AR401611 BITUMINOUS SURFACE COURSE-METHOD 1, SUPERPAVE

THE BITUMINOUS SURFACE COURSE (401) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR401003 "BITUMINOUS SURFACE COURSE-METHOD 1, SUPERPAVE" AS STATED ON PAGE 129 OF THE OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED NOV. 2, 2009.

THIS ITEM OF WORK SHALL CONSIST OF CONSTRUCTING 1 LIFT OF BITUMINOUS SURFACE COURSE-METHOD 1, SUPERPAVE (1-1/2 INCH DEPTH) ON THE POROUS FRICTION COURSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY CONTROL IN THE PRODUCTION AND CONSTRUCTION OF THE BITUMINOUS SURFACE COURSE METHOD 1, SUPERPAVE.

PRIOR TO STARTING THE BITUMINOUS SURFACE COURSE-METHOD 1, SUPERPAVE OPERATION, THE CONTRACTOR SHALL SUBMIT TO THE RESIDENT ENGINEER A DETAILED OUTLINE SHOWING AREAS AND ORDER OF PAVING WIDTHS OF PAVING LANES, AND REQUIRED OFFSETS FOR ELECTRONIC GRADE.

NO STRING LINE WILL BE REQUIRED DURING THE PLACEMENT OF THE BITUMINOUS SURFACE COURSE.

THE PROPOSED BITUMINOUS SURFACE COURSE METHOD 1, SUPERPAVE WILL BE DESIGNED TO A SUPERPAVE DESIGN OF LESS THAN 60,000 POUNDS.

401-4.9 ADD THE FOLLOWING TO THIS SECTION:

WHEN HAND SPREADING IS PERMITTED, THE MIXTURE WILL BE DISTRIBUTED AND SPREAD USING HAND TOOLS. WHEN THE WORK IS COMPLETED, THE LAYER WILL HAVE THE REQUIRED THICKNESS AND CONFORM TO THE GRADE AND SURFACE CONTOUR SHOWN ON THE PLANS.

401-4.12 ADD THE FOLLOWING TO THIS PARAGRAPH:

ALL PAVEMENT EDGES (LONGITUDINAL, RADIUS, AND PAVEMENT ENDS) MUST BE LEFT IN PROPER ALIGNMENT AS SHOWN ON THE PLANS. THIS MAY BE ACCOMPLISHED BY THE TRIMMING METHOD OUTLINED ABOVE OR AT THE CONTRACTOR'S OPTION BY SAWING AFTER THE PAVING HAS BEEN COMPLETED. NO ADDITIONAL COMPENSATION WILL BE MADE IF THE SAWING METHOD IS USED.

501 CONCRETE SIDEWALK

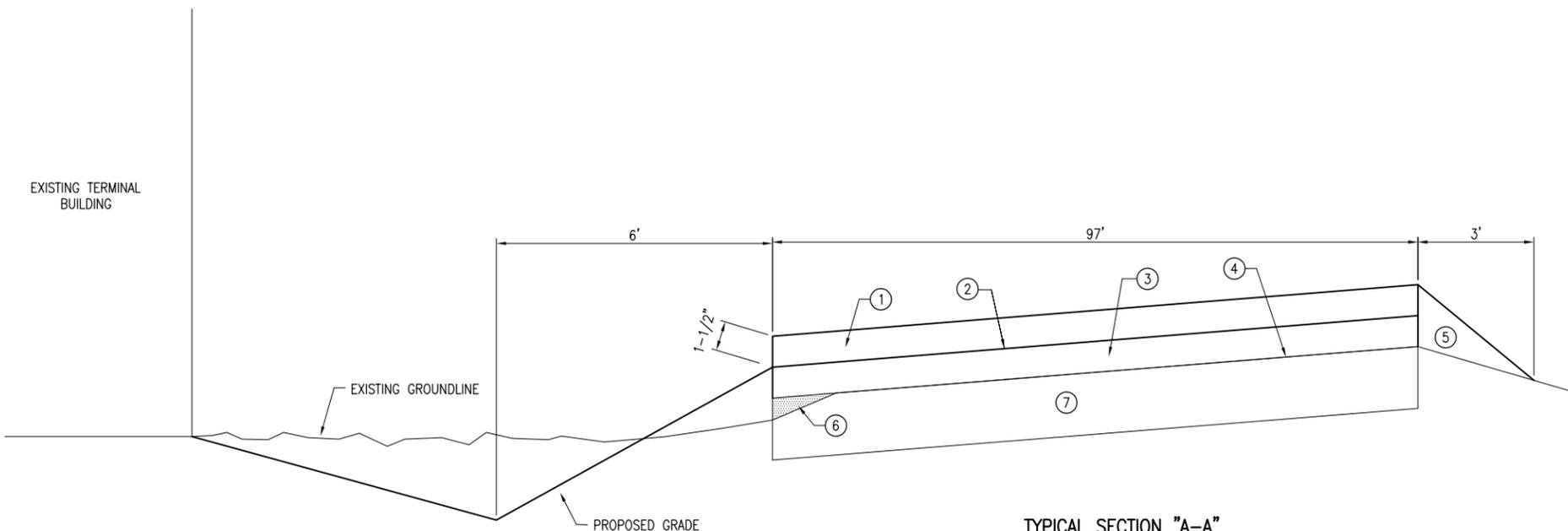
THE CONTRACTOR WILL CONSTRUCT A PROPOSED CONCRETE SIDEWALK (4" THICK) AT THE LOCATION SHOWN ON SHEET 5.

THE CONCRETE SHALL BE IN ACCORDANCE WITH ITEM 610 STRUCTURAL PORTLAND CEMENT CONCRETE.

NO REINFORCEMENT WILL BE REQUIRED IN THE CONCRETE.

JOINTING OF THE CONCRETE WILL BE EVERY 4 FOOT.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM: AR501600 PCC SIDEWALK - PER S.F.



TYPICAL SECTION "A-A"
NOT TO SCALE

LEGEND FOR TYPICAL SECTION "A-A"

- ① PROPOSED 401 - BITUMINOUS SURFACE COURSE (1-1/2" DEPTH)
- ② PROPOSED 603 - BITUMINOUS TACK COAT (0.15 GAL./S.Y.)
- ③ PROPOSED 402 - POROUS FRICTION COARSE (0.10' DEPTH)
- ④ PROPOSED 603 - BITUMINOUS TACK COAT (0.25 GAL./S.Y.)
- ⑤ PROPOSED 152 - SHOULDER ADJUSTMENT
- ⑥ PROPOSED 401- BITUMINOUS SURFACE COURSE (WEDGE)
- ⑦ EXISTING GRADE

BY	CAH
REVISION	REVISOR
DATE	5/5/10

OLNEY-NOBLE AIRPORT
OLNEY, ILLINOIS

A.I.P. PROJ.: 3-17-0076-B9

IL PROJ.: 01Y-3926

Hanson Project No. 09A0146D_0800	LAYOUT	CAH	01/28/10
Filename R-302TYP.DWG	DRAWN	BAK	01/28/10
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Date 01/28/10			



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Chicago, Nationwide

REHABILITATE
AUTO PARKING LOT

PROPOSED
TYPICAL SECTION
AND NOTES

DATE	REVISION	BY

Hanson Project No. 09A0146D_0800
 Filename: R-XSEC.DWG
 Scale: 1" = 10'
 Date: 11/05/09

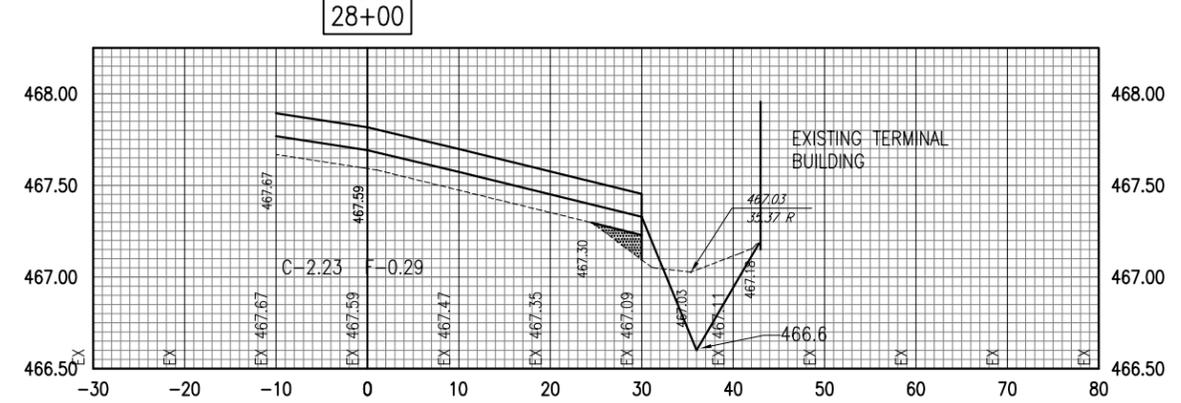
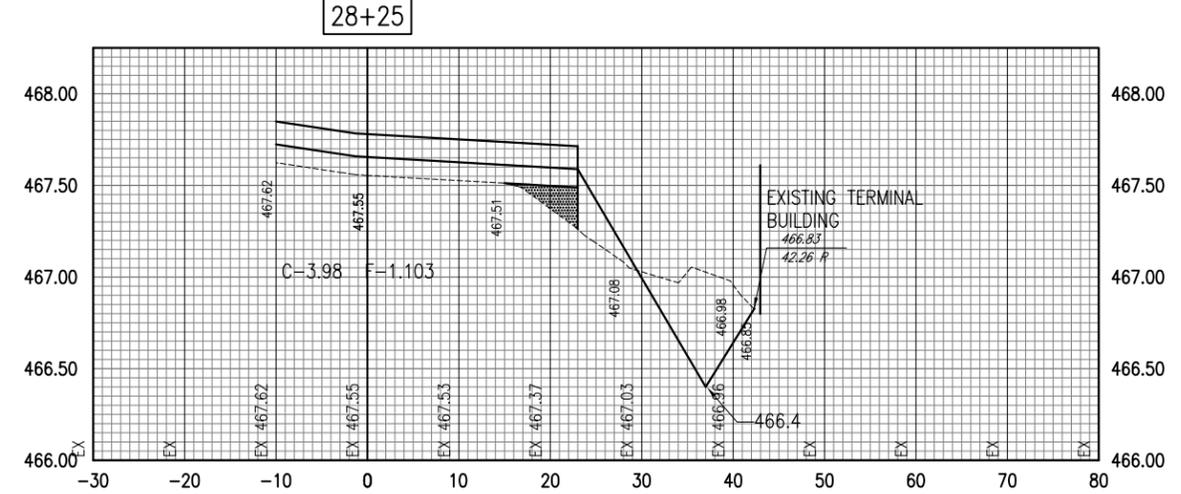
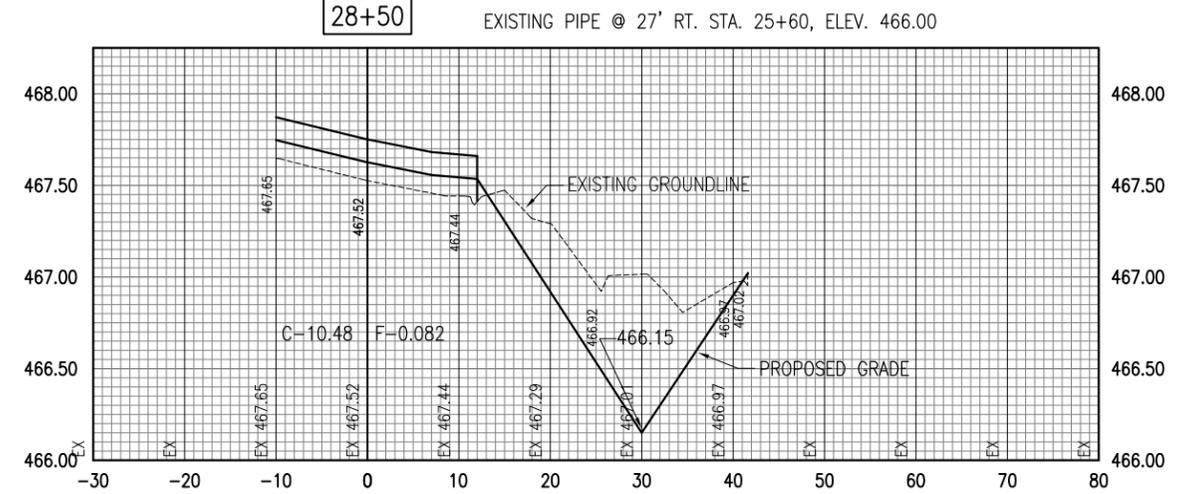
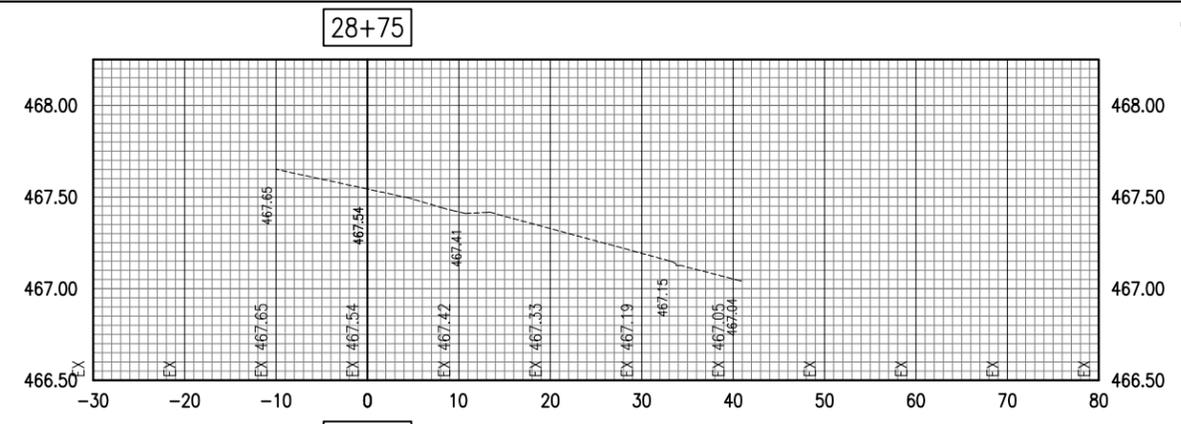
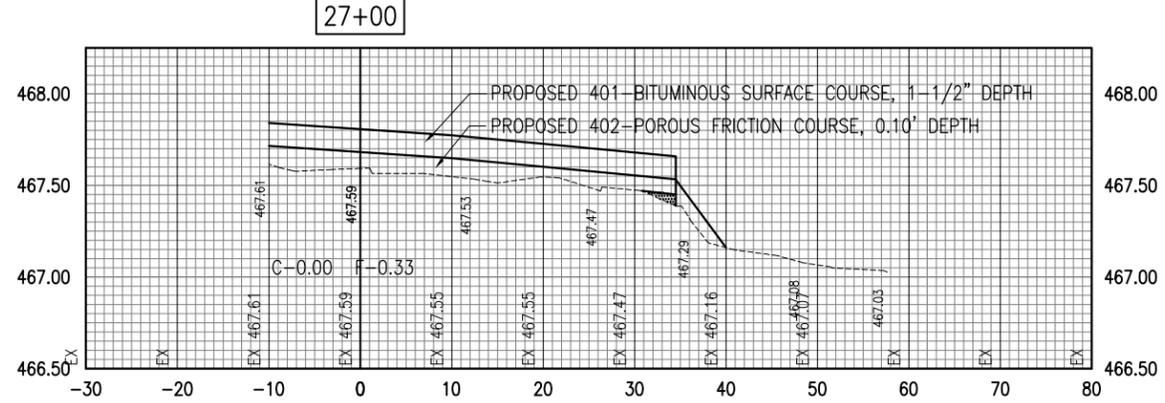
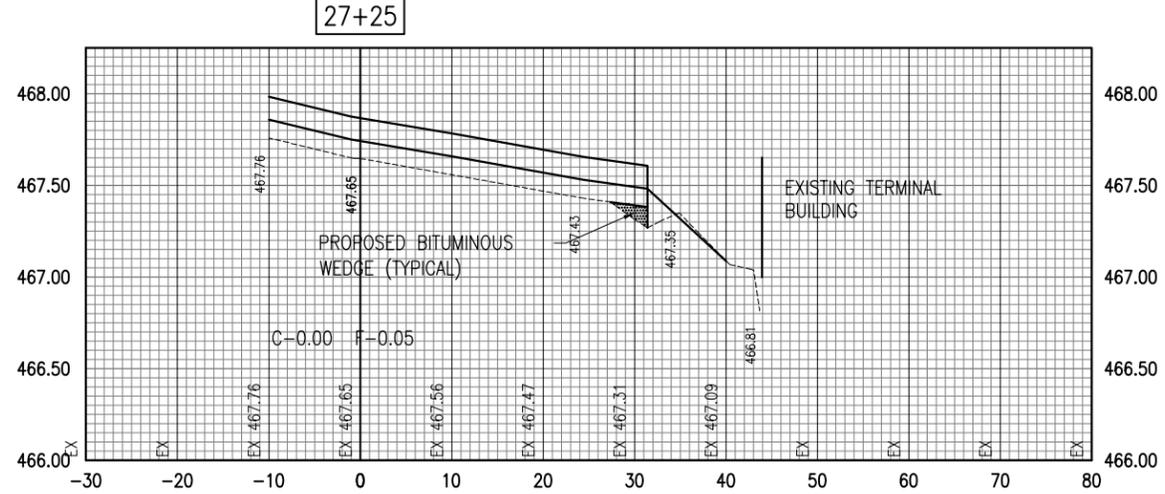
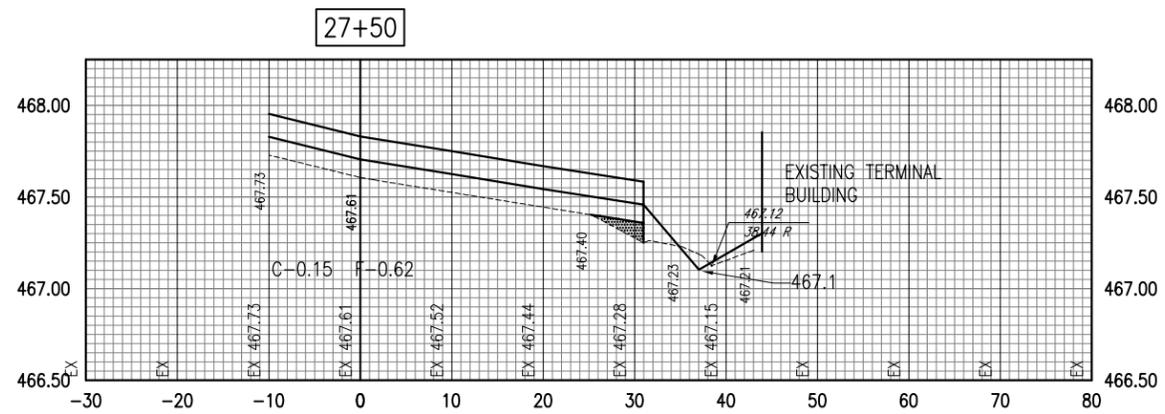
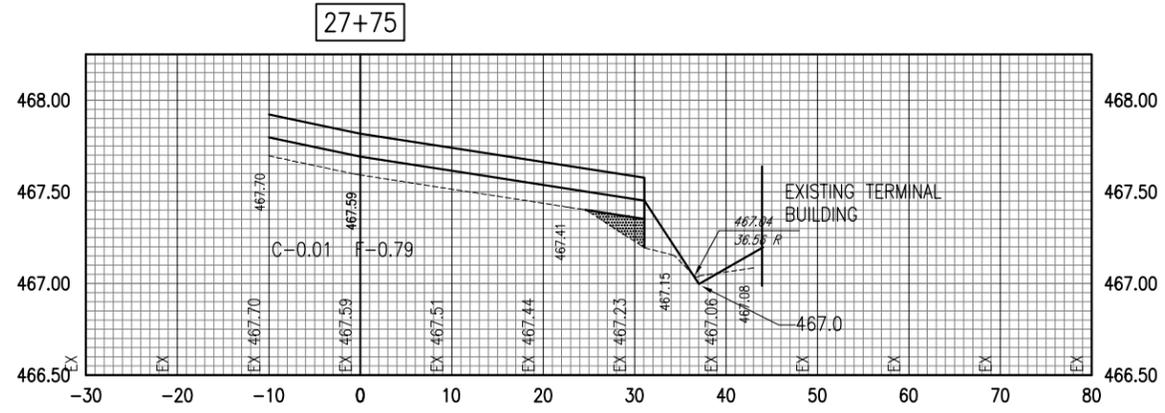
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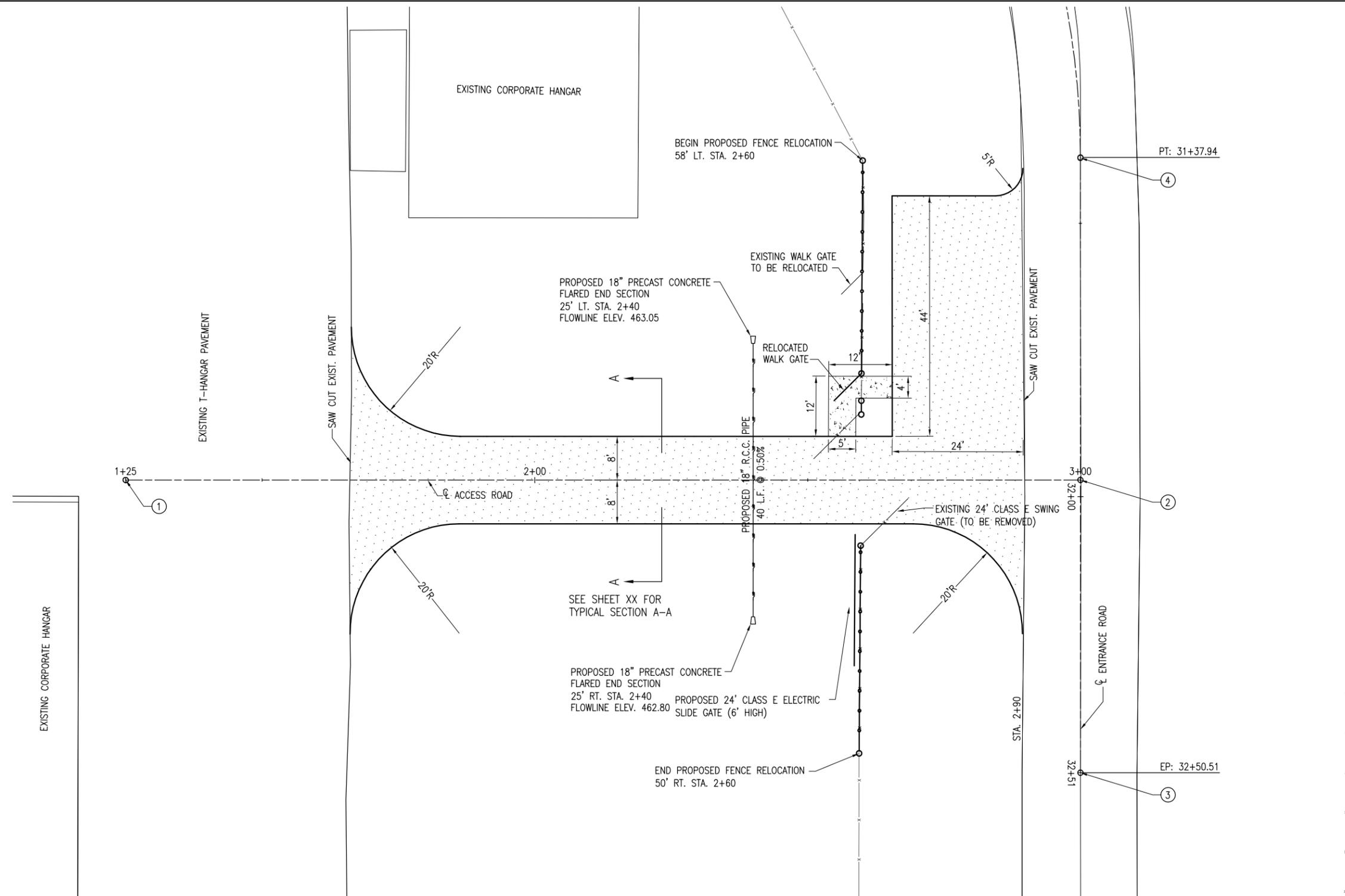
 <p>Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62703-2866 Offices Nationwide</p>		
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REHABILITATE
 AUTO PARKING LOT

PROPOSED PARKING LOT
 CROSS-SECTIONS
 STA. 27+00 TO STA. 28+75



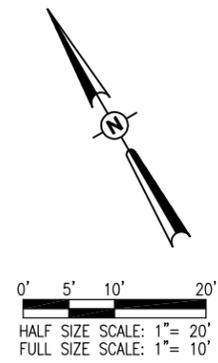
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3	32+50.51	CL	747154.3150	1029908.8827
4	31+37.94	CL	747245.7008	1029974.4235

PROPOSED SITE PLAN

- LEGEND**
- EXISTING BUILDINGS
 - PROPOSED IMPROVEMENTS
 - PROPOSED CONCRETE SIDEWALK
 - EXISTING FENCE
 - RELOCATED FENCE



DATE	REVISION	BY

OLNEY-NOBLE AIRPORT
OLNEY, ILLINOIS

IL. PROJ.: 01Y-3926 A.I.P. PROJ.: 3-17-0076-B9

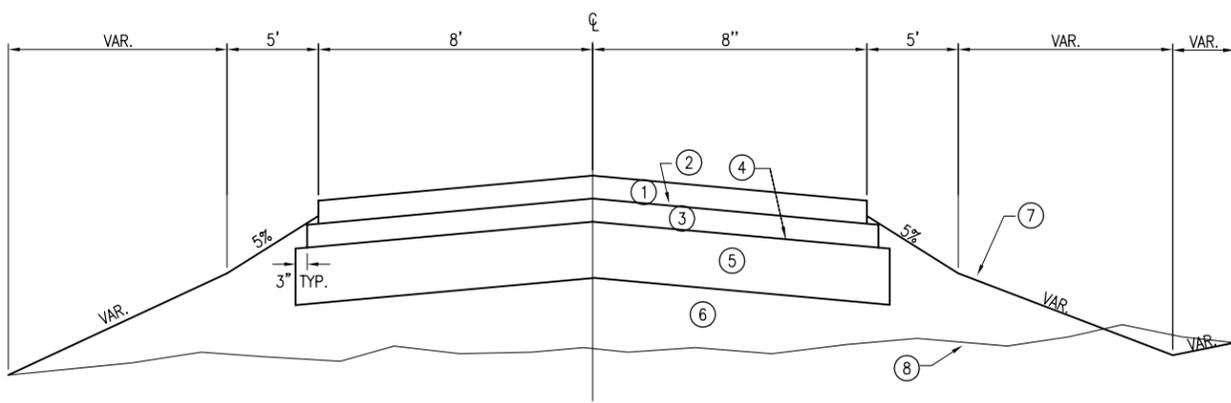
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LAYOUT	JEO 11/05/09
DRAWN	JEO 11/05/09
REVIEWED	CAH xx/xx/xx

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T-HANGAR ACCESS ROAD

PROPOSED SITE PLAN



LEGEND

- ① PROPOSED 401 - BITUMINOUS SURFACE COURSE (1-1/2" DEPTH)
- ② PROPOSED 603 - BITUMINOUS TACK COAT (0.15 GAL./S.Y.)
- ③ PROPOSED 401 - BITUMINOUS SURFACE COURSE (1-1/2" DEPTH)
- ④ PROPOSED 602 - BITUMINOUS PRIME COAT (0.25 GAL./S.Y.)
- ⑤ PROPOSED 209 - CRUSHED AGGREGATE BASE COURSE (6" DEPTH)
- ⑥ PROPOSED 152 - UNCLASSIFIED EXCAVATION
- ⑦ PROPOSED GRADE
- ⑧ EXISTING GRADE

401 BITUMINOUS SURFACE COURSE - METHOD 1

THE BITUMINOUS SURFACE COURSE (401) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR401003 "BITUMINOUS SURFACE COURSE-METHOD 1, SUPERPAVE" AS STATED ON PAGE 129 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED NOVEMBER 2, 2009.

THIS ITEM OF WORK SHALL CONSIST OF CONSTRUCTING TWO LIFTS OF BITUMINOUS SURFACE COURSE (1-1/2 INCH DEPTH) ON THE PROPOSED CRUSHED AGGREGATE BASE COURSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY CONTROL IN THE PRODUCTION AND CONSTRUCTION OF THE BITUMINOUS SURFACE COURSE.

PRIOR TO STARTING THE BITUMINOUS SURFACE COURSE OPERATION, THE CONTRACTOR SHALL SUBMIT TO THE RESIDENT ENGINEER A DETAILED OUTLINE SHOWING AREAS AND ORDER OF PAVING WIDTHS OF PAVING LANES, AND REQUIRED OFFSETS FOR ELECTRONIC GRADE.

A STRING LINE WILL NOT BE REQUIRED.

THE PROPOSED BITUMINOUS SURFACE COURSE WILL BE DESIGNED TO A MARSHALL DESIGN OF LESS THAN 60,000 POUNDS.

401-4.9 ADD THE FOLLOWING TO THIS SECTION:

WHEN HAND SPREADING IS PERMITTED, THE MIXTURE WILL BE DISTRIBUTED AND SPREAD USING HAND TOOLS. WHEN THE WORK IS COMPLETED, THE LAYER WILL HAVE THE REQUIRED THICKNESS AND CONFORM TO THE GRADE AND SURFACE CONTOUR SHOWN ON THE PLANS.

401-4.12 ADD THE FOLLOWING TO THIS PARAGRAPH:

ALL PAVEMENT EDGES (LONGITUDINAL, RADIUS, AND PAVEMENT ENDS) MUST BE LEFT IN PROPER ALIGNMENT AS SHOWN ON THE PLANS. THIS MAY BE ACCOMPLISHED BY THE TRIMMING METHOD OUTLINED ABOVE OR AT THE CONTRACTOR'S OPTION BY SAWING AFTER THE PAVING HAS BEEN COMPLETED. NO ADDITIONAL COMPENSATION WILL BE MADE IF THE SAWING METHOD IS USED.

908 MULCHING NOTES

THE PROPOSED MULCHING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ITEM 908 "MULCHING" AS STATED ON PAGE 334 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED NOVEMBER 2, 2009.

THIS ITEM SHALL CONSIST OF THE FURNISHING, TRANSPORTING, AND PLACING MULCH OVER THE SEEDED AREA. DISTURBED AREAS OUTSIDE THE GRADING LIMITS SHALL ALSO BE MULCHED AND PARTICIPATION WILL BE THE SAME AS FOR SEEDED AREAS.

908-2.1 MULCH MATERIAL: THE CONTRACTOR MAY EITHER FURNISH STRAW OR HYDROMULCH AS THE TYPE OF MULCH MATERIAL TO BE USED ON THIS PROJECT.

908-3.1 MULCHING: THE HYDRAULIC MULCH SHALL BE APPLIED AS A SLURRY OF 2,500 POUNDS OF MULCH AND NOT LESS THAN 2,500 GALLONS OF WATER PER ACRE.

908-3.4 STRUCTURE CLEANING: AFTER THE PROPOSED MULCH HAS BEEN APPLIED, THE CONTRACTOR WILL CLEAN THE MULCH OFF ALL STRUCTURES (DRAINAGE, ELECTRICAL, LIGHTS, ETC.).

DATE MULCHING COMPLETED _____

THE PROPOSED MULCHING WILL BE PAID FOR UNDER ITEMS:
AR908510 MULCHING _____ PER ACRES

603-BITUMINOUS TACK COAT NOTES:

THE BITUMINOUS TACK COAT (603) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR603 "BITUMINOUS TACK COAT" AS STATED ON PAGE 254 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED NOVEMBER 2, 2009.

THE PROPOSED BITUMINOUS TACK COAT SHALL BE PLACED ON THE PROPOSED BITUMINOUS PAVEMENT PRIOR TO THE PLACEMENT OF THE NEXT LIFT OF PROPOSED BITUMINOUS MATERIAL.

THE PROPOSED BITUMINOUS TACK COAT WILL BE PAID FOR UNDER ITEM:
AR603510 BITUMINOUS TACK COAT _____ PER GAL.

620 PAVEMENT MARKING

THE PROPOSED MARKING SHALL BE COMPLETED IN ACCORDANCE WITH ITEM 620 PAVEMENT MARKING AS STATED ON PAGE 277 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED NOVEMBER 2, 2009.

THE PROPOSED MARKING SHALL BE YELLOW IN COLOR AND SOLID.

NONE OF THE PROPOSED MARKING WILL BE OUTLINED WITH BLACK PAINT.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:
AR620520 PAVEMENT MARKING-WATERBORNE - PER S.F.

701-PIPE FOR STORM SEWERS AND CULVERTS

THE PROPOSED 18" RCC PIPE WILL BE INSTALLED IN ACCORDANCE WITH ITEM 701 AS STATED ON PAGE 302 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED NOVEMBER 2, 2009.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:
AR701518 18" RCP, CLASS IV - PER L.F.

752 PRECAST REINFORCED CONCRETE FES

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING TWO PRECAST CONCRETE FLARED END SECTIONS ON THE PROPOSED 18" RCC PIPE. THE END SECTIONS WILL BE INSTALLED IN ACCORDANCE WITH ITEM 752 AS STATED ON PAGE 320 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED NOVEMBER 2, 2009.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:
AR752418 PRECAST REINFORCED CONC. FES 18" - PER L.F.

901 SEEDING NOTES

THE PROPOSED SEEDING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ITEM 901 "SEEDING" AS STATED ON PAGE 324 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED NOVEMBER 2, 2009.

ALL DISTURBED AREAS LOCATED WITHIN THE PROPOSED GRADING AND SEEDING LIMITS WILL BE SEEDED IN ACCORDANCE WITH THE ABOVE NOTED SPECIFICATION. ALL AREAS OUTSIDE THE DESIGNATED GRADING AND SEEDING LIMITS WILL ALSO BE SEEDED BUT AT THE CONTRACTOR'S OWN EXPENSE.

ALL MATERIALS AND/OR DEBRIS RESULTING FROM THE SEEDING OPERATIONS WILL BE REMOVED FROM THE PAVEMENTS AND MISCELLANEOUS STRUCTURES PRIOR TO OPENING THE RUNWAY.

DATE SEEDING COMPLETED _____

THE PROPOSED SEEDING WILL BE PAID FOR UNDER ITEMS:
AR901510 SEEDING _____ PER ACRES

GENERAL PAVEMENT PREPARATION

THE EDGES OF THE ENTRANCE ROAD AND THE T-HANGAR PAVEMENT WILL BE SAWED (FULL DEPTH) TO PROVIDE A STRAIGHT EDGE TO ABUT AGAINST AND ELIMINATE AN EDGE ROLL DOWN.

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT LOCATION WHERE THE PAVEMENT EDGE WILL BE SAWED.

THE SAWED MATERIAL WILL BE REMOVED AND DISPOSED OF OFF THE AIRPORT SITE AT THE CONTRACTOR'S OWN EXPENSE.

THE SAWING OF THE PAVEMENT EDGE AND THE REMOVAL OF THE SAWED MATERIAL WILL BE CONSIDERED AS AN INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

152 UNCLASSIFIED EXCAVATION

THE PROPOSED UNCLASSIFIED AND BORROW EXCAVATION SHALL BE PLACED IN ACCORDANCE WITH ITEM 152 "EXCAVATION AND EMBANKMENT" AS STATED ON PAGE 58 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED NOVEMBER 2, 2009.

THERE IS INSUFFICIENT UNCLASSIFIED EXCAVATED MATERIAL ON THE AIRPORT SITE FOR THIS PROJECT. THE CONTRACTOR WILL FURNISH BORROW EXCAVATION MATERIAL FROM AN APPROVED OFF SITE BORROW AREA. THE CONTRACTOR WILL FURNISH A PROCTOR FOR THE BORROW MATERIAL USED.

MATERIAL TO BE USED FOR SHOULDERING WILL BE STORED OUTSIDE OF THE PROPOSED PAVEMENT AREA AND WITHIN THE GRADING LIMITS.

THE MATERIAL TO BE USED FOR THE SHOULDERING WILL BE TOPSOIL.

The COMPACTION CONTROL TEST TO BE USED FOR ALL EMBANKMENTS AND EXCAVATION SHALL BE FAA COMPACTION CONTROL TEST T-611 FOR AIRCRAFT WEIGHING LESS THAN 60,000 POUNDS.

THE PROPOSED SHOULDER MATERIAL WILL ONLY REQUIRE "LIGHT COMPACTION" TO THE SATISFACTION OF THE RESIDENT ENGINEER.

ALL EARTHWORK WILL BE CLASSIFIED AS EITHER "UNCLASSIFIED EXCAVATION" OFFSITE BORROW EXCAVATION".

THE PROPOSED UNCLASSIFIED EXCAVATION WILL BE PAID FOR UNDER ITEM:

- AR152410 UNCLASSIFIED EXCAVATION _____ PER C.Y.
- AR153442 OFFSITE BORROW EXCAVATION _____ PER C.Y.

209 CRUSHED AGGREGATE BASE COURSE NOTES

THE PROPOSED CRUSHED AGGREGATE BASE COURSE MATERIAL WILL BE ACCOMPLISHED IN ACCORDANCE WITH ITEM 209 "CRUSHED AGGREGATE BASE COURSE" AS STATED ON PAGE 93 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED NOVEMBER 2, 2009.

THIS ITEM SHALL CONSIST OF THE PLACEMENT, COMPACTION AND GRADING OF A 6" THICK CRUSHED AGGREGATE BASE COURSE.

THE CONTRACTOR WILL FURNISH A PROCTOR FOR THE CRUSHED AGGREGATE BASE COURSE MATERIAL TO BE USED ON THIS PROJECT.

THE CRUSHED AGGREGATE BASE COURSE WILL BE DESIGNED TO A MARSHALL DESIGN OF LESS THAN 60,000 POUNDS.

THE FINAL COMPACTED CRUSHED AGGREGATE BASE COURSE WILL BE CHECKED WITH A 16-FOOT STRAIGHTEDGE THAT WILL BE RUN LONGITUDINALLY DOWN THE CENTER OF THE PAVING LANE.

THE PROPOSED CRUSHED AGGREGATE BASE COURSE WILL BE PAID FOR UNDER ITEM:

AR209510 CRUSHED AGGREGATE BASE COURSE _____ PER TON.

501 CONCRETE SIDEWALK

THE CONTRACTOR WILL CONSTRUCT A PROPOSED CONCRETE SIDEWALK (4" THICK) AT THE LOCATION SHOWN ON SHEET 11.

THE CONCRETE SHALL BE IN ACCORDANCE WITH ITEM 610 STRUCTURAL PORTLAND CEMENT CONCRETE.

NO REINFORCEMENT WILL BE REQUIRED IN THE CONCRETE.

JOINTING OF THE CONCRETE WILL BE EVERY 4 FOOT.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:
AR501600 PCC SIDEWALK - PER S.F.

602-BITUMINOUS PRIME COAT NOTES:

THE BITUMINOUS PRIME COAT (602) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR602 "BITUMINOUS PRIME COAT" AS STATED ON PAGE 251 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED NOVEMBER 2, 2009.

THE PROPOSED BITUMINOUS PRIME COAT SHALL BE PLACED ON THE PROPOSED CRUSHED AGGREGATE BASE COURSE PRIOR TO THE PLACEMENT OF THE FIRST LIFT OF PROPOSED BITUMINOUS SURFACE COURSE MATERIAL.

THE PROPOSED BITUMINOUS PRIME COAT WILL BE PAID FOR UNDER ITEM:
AR602510 BITUMINOUS PRIME COAT _____ PER GAL.

BY	CAH
REVISION	
REVISED PER	
DATE	5/5/10

**OLNEY-NOBLE AIRPORT
OLNEY, ILLINOIS**

A.I.P. PROJ.: 3-17-0076-B9
IL PROJ.: 01Y-3926

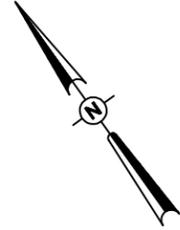
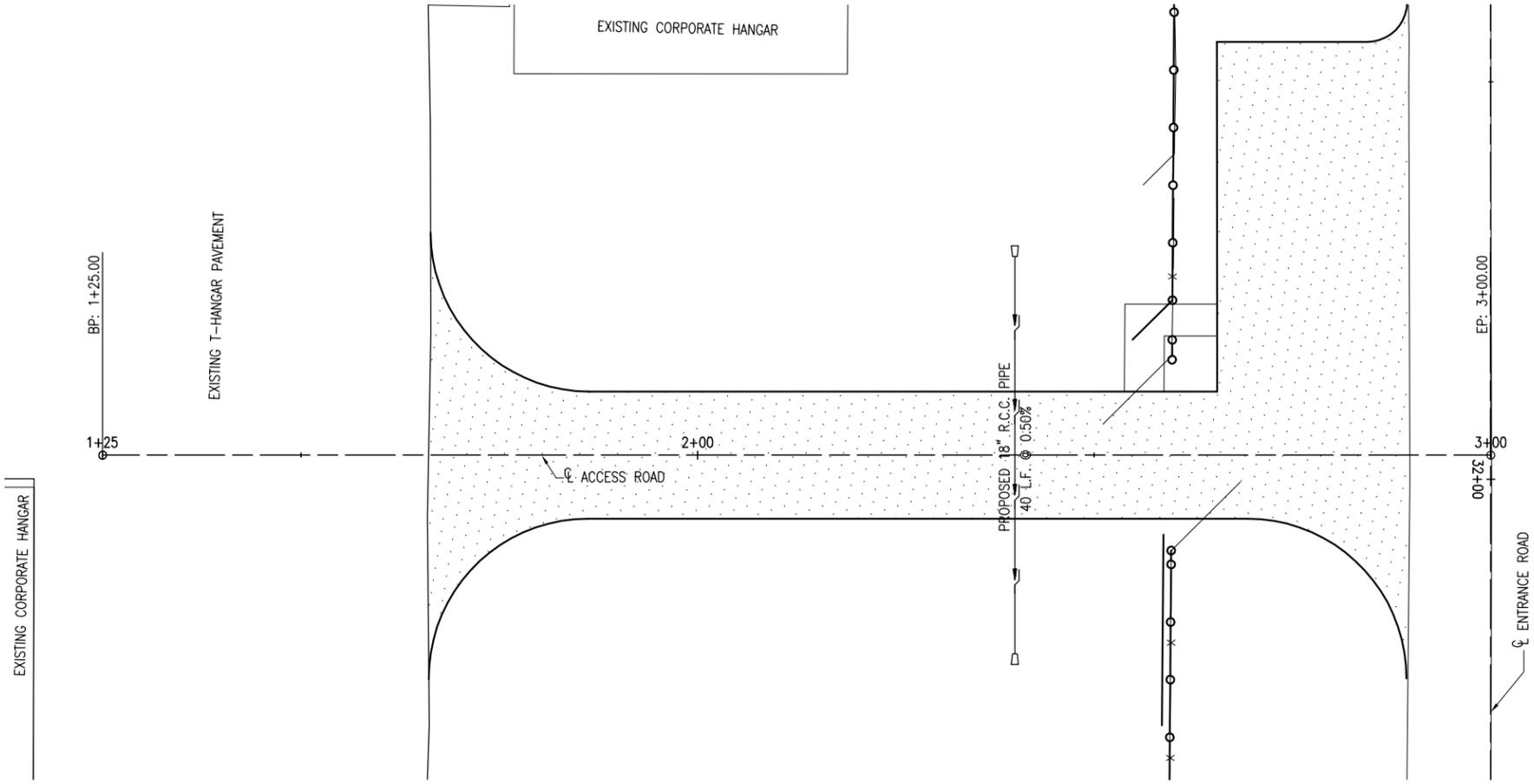
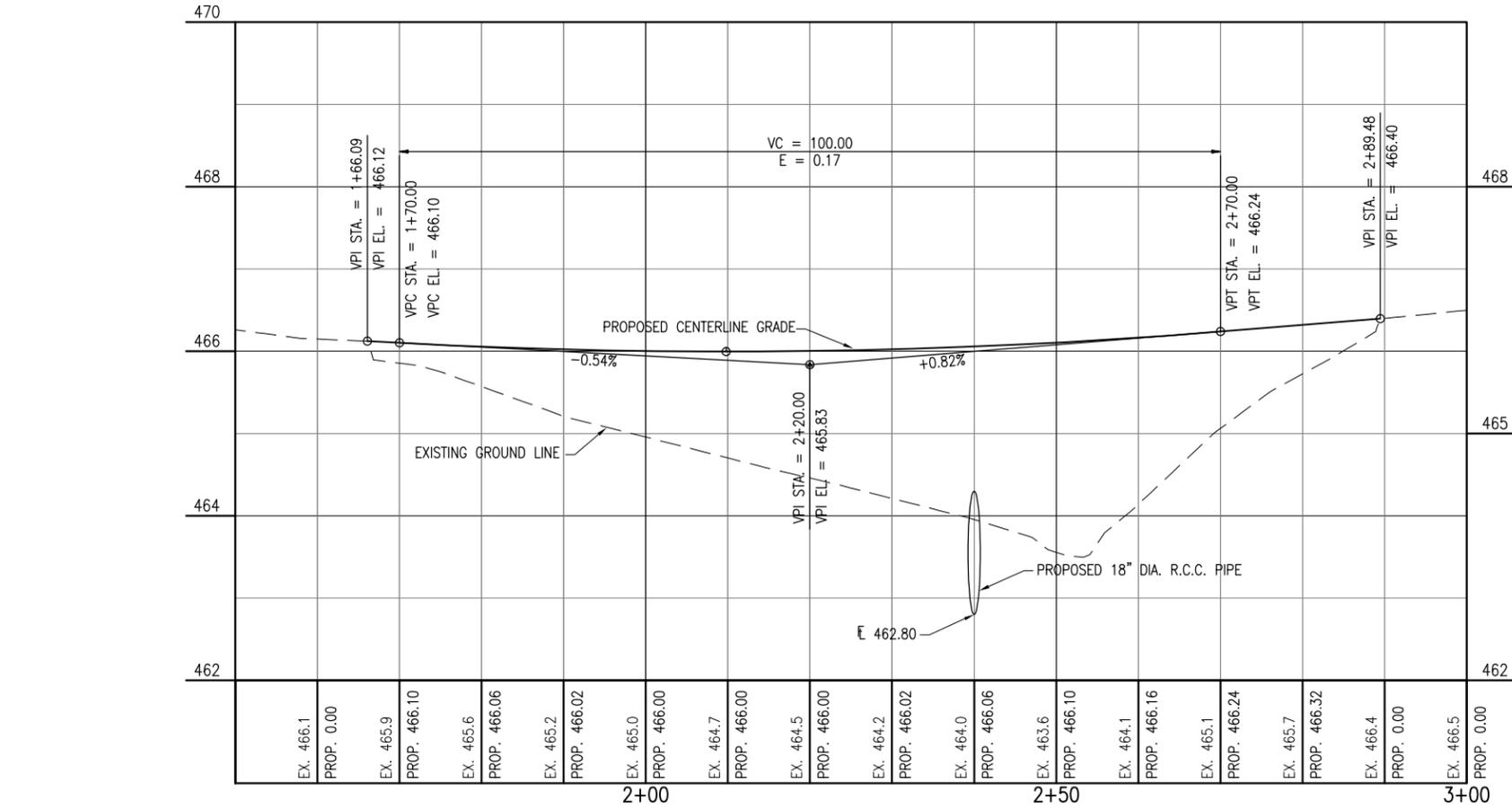
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LAYOUT	JOO	01/28/10	
DRAWN	JOO	01/28/10	
REVIEWED	CAH	02/02/10	



**T-HANGAR
ACCESS ROAD**

**PROPOSED
TYPICAL SECTION
AND NOTES**

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SCALES:
 1" = 10' HORIZONTAL
 1" = 1.0' VERTICAL

OL009

DATE	REVISION	BY

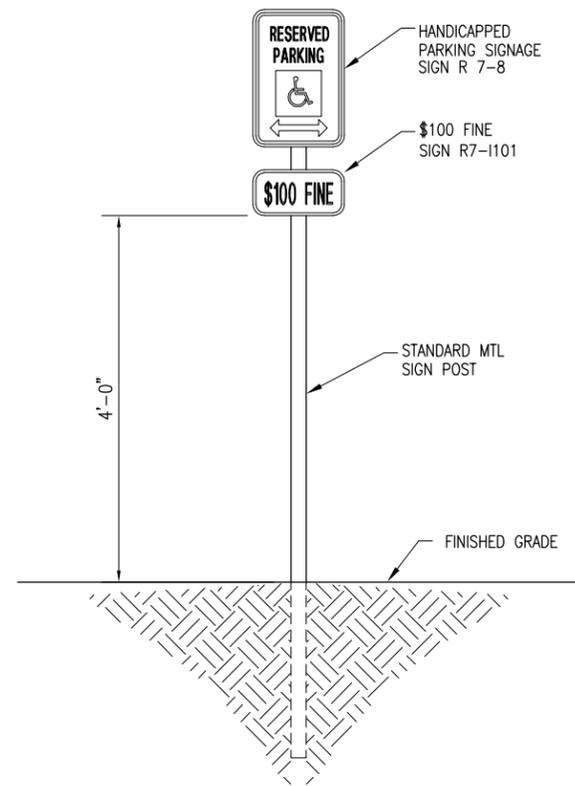
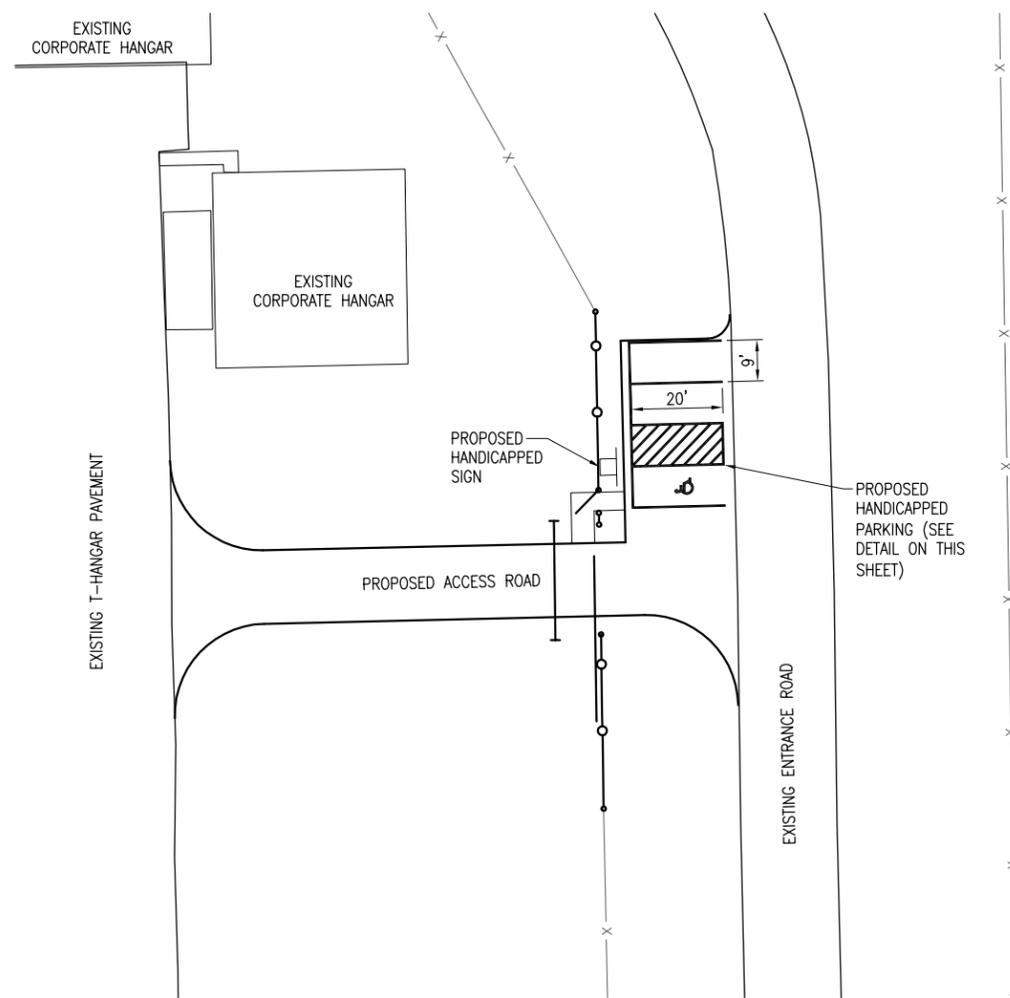
OLNEY-NOBLE AIRPORT
OLNEY, ILLINOIS

IL. PROJ.: 01Y-3926 A.I.P. PROJ.: 3-17-0076-B9

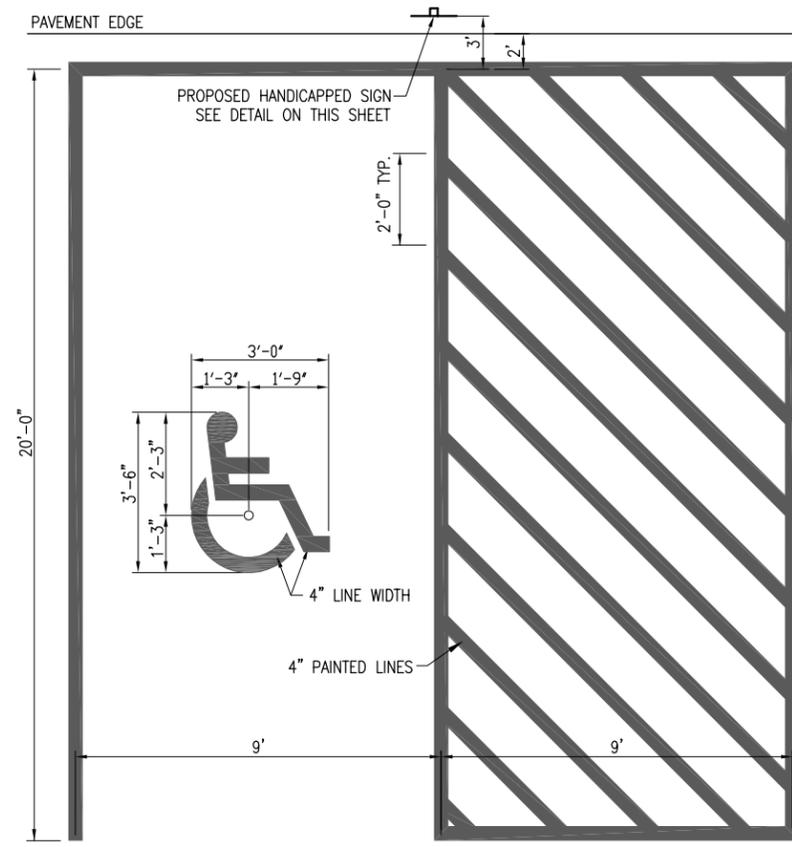
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R-PROFILE2.DWG	11/05/09	JEO	11/05/09
Scale 1" = 400'	11/05/09	JEO	11/05/09
Date 11/05/09	11/05/09	CAH	xx/xx/xx



T-HANGAR ACCESS ROAD
 PROPOSED
 PLAN AND PROFILE



HANDICAPPED SIGNAGE
"NOT TO SCALE"



TYPICAL HANDICAP PARKING SPACE PAINT STRIPING
"NOT TO SCALE"

NOTE: CENTER SYMBOL IN STALL.

620-PAVEMENT MARKING-WATERBORNE NOTES

THE PAVEMENT MARKING-WATERBORNE (620) SHALL BE PLACED IN ACCORDANCE WITH ITEM 620 "PAVEMENT MARKING" AS STATED ON PAGE 277 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED NOV. 2, 2009.

THIS ITEM SHALL CONSIST OF PARKING STALL MARKING IN ACCORDANCE WITH THESE SPECIFICATIONS AND AT THE LOCATIONS SHOWN ON THE CONSTRUCTION PLANS. ALL MARKING WILL BE YELLOW IN COLOR. THE PROPOSED PAVEMENT MARKING WILL BE APPLIED IN TWO APPLICATIONS.

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

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

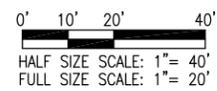
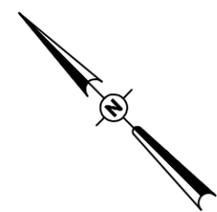
GLASS BEADS SHALL BE REQUIRED ONLY ON THE SECOND APPLICATION OF YELLOW MARKING.

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

THE PROPOSED MARKING WILL BE PAID FOR UNDER ITEM:
AR620520 PAVEMENT MARKING-WATERBORNE ____ 79 S.F.

LEGEND

- EXISTING IMPROVEMENTS
- EXISTING BUILDINGS
- PROPOSED IMPROVEMENTS
- EXISTING FENCE
- PROPOSED FENCE
- PROPOSED MARKING



DATE	REVISION	BY

OLNEY-NOBLE AIRPORT
OLNEY, ILLINOIS

IL. PROJ.: 01Y-3926 A.I.P. PROJ.: 3-17-0076-B9

Hanson Project No. 09A0146D_0800	LAYOUT	JEO	11/05/09
Filename: R-151MRK.DWG	DRAWN	BAK	11/05/09
Scale: 1" = 20'	REVIEWED	CAH	xx/xx/xx
Date: 11/05/09			



T-HANGAR ACCESS ROAD

PROPOSED MARKING PLAN

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ELECTRICAL LEGEND - ONE-LINE DIAGRAM	
	CABLE TERMINATOR/LUG, TERMINAL BLOCK, OR SPLICE
	TRANSFORMER
	DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	CIRCUIT BREAKER
	THERMAL MAGNETIC CIRCUIT BREAKER
	NORMALLY OPEN (N.O.) CONTACT
	NORMALLY CLOSED (N.C.) CONTACT
	TOGGLE SWITCH / 2 POSITION SWITCH
	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 OR TERMINALS
	EQUIPMENT, XXX = DEVICE DESCRIPTION
	GROUND BAR, GROUND BUS OR GROUND TERMINAL
	SOLID NEUTRAL, NEUTRAL BUS, OR NEUTRAL TERMINAL
	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: N = NORMAL EM = EMERGENCY L = LOAD
	ENGINE GENERATOR SET

ELECTRICAL LEGEND - PLANS	
	CONDUIT (EXPOSED)
	CONDUIT OR UNIT DUCT (CONCEALED OR BURIED)
	DUCT
	DUCT
	BURIED/UNDERGROUND ELECTRIC
	OVERHEAD ELECTRIC
	TOGGLE SWITCH
	PUSH BUTTON STATION
	WALL OR CEILING MTD. JUNCTION BOX. CONFIGURATION VARIES WITH USE
	SINGLE THROW DISCONNECT SWITCH
	SINGLE THROW, FUSIBLE DISCONNECT SWITCH
	ENCLOSED CIRCUIT BREAKER
	MOTOR
	TRANSFORMER
	ELECTRIC UTILITY METER
	ENCLOSURE
	CIRCUIT BREAKER PANEL-SEE SCHEDULES
	CONTROL PANEL
	GROUND ROD

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
LTFCM	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:

- 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 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.
- LTFCM 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 LTFCM THAT IS NOT UL LISTED.
- 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.
- PER NEC 513 THE ENTIRE AREA OF A HANGAR INCLUDING ANY ADJACENT AND COMMUNICATING AREAS NOT SUITABLY CUT OFF FROM THE HANGAR, SHALL BE CLASSIFIED AS A CLASS I, DIVISION 2 HAZARDOUS LOCATION UP TO A LEVEL 18 INCHES ABOVE THE FLOOR. PER NEC 513.3(C) "VICINITY OF AIRCRAFT", THE AREA WITHIN 5 FT. HORIZONTALLY FROM AIRCRAFT POWER PLANTS OR AIRCRAFT FUEL TANKS SHALL BE CLASSIFIED AS A CLASS I, DIVISION 2 LOCATION THAT SHALL EXTEND UPWARD FROM THE FLOOR TO A LEVEL 5 FT. ABOVE THE UPPER SURFACE OF WINGS AND OF ENGINE ENCLOSURES. ALL ELECTRICAL INSTALLATIONS IN CLASSIFIED HAZARDOUS LOCATIONS SHALL BE AVOIDED UNLESS SPECIFICALLY APPROVED FOR SUCH LOCATIONS AND INSTALLED IN CONFORMANCE WITH NEC 500, 501, AND 513 AS WELL AS OTHER APPLICABLE CODES AND REQUIREMENTS.

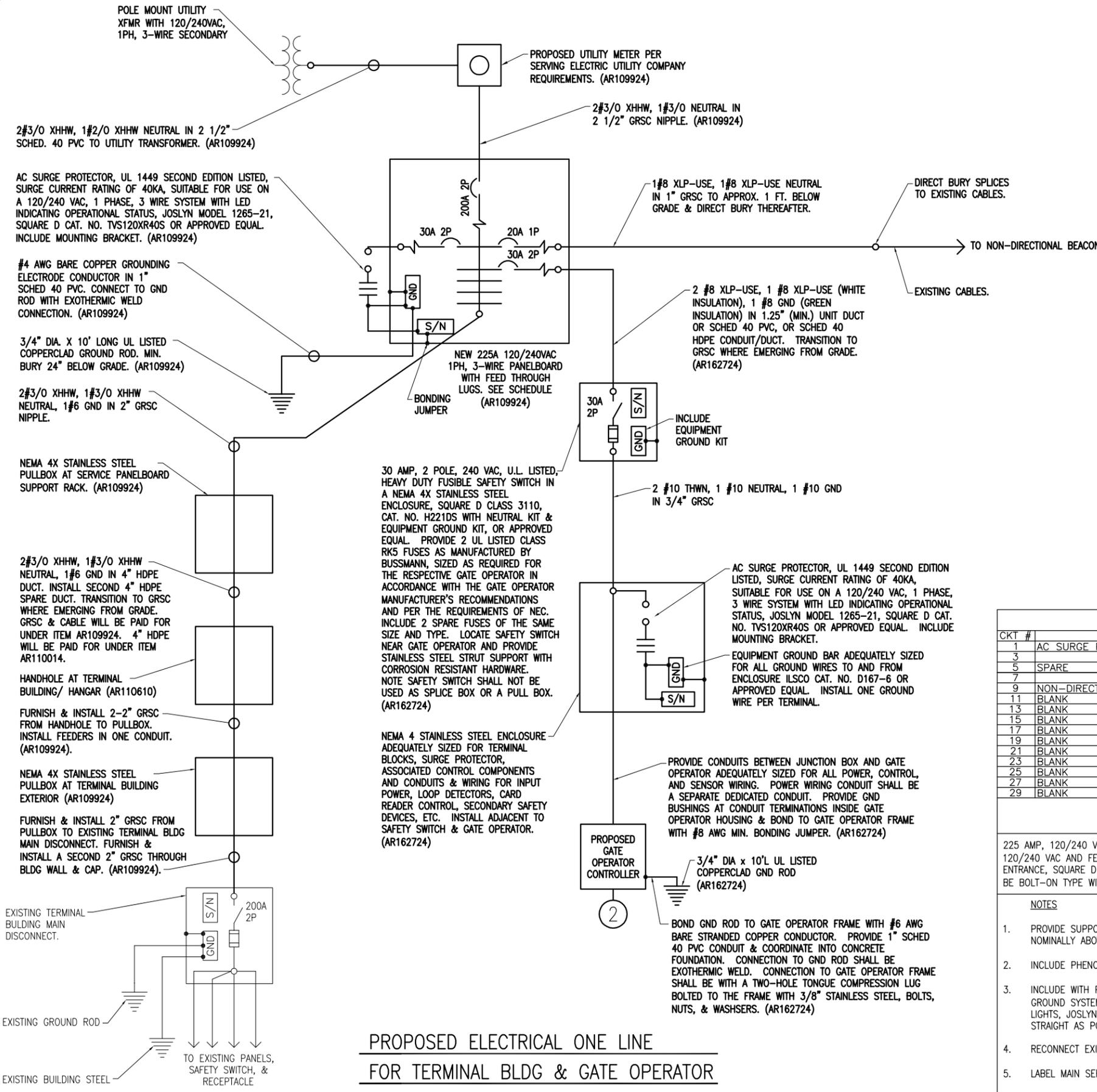
DATE	REVISION	BY

OLNEY-NOBLE AIRPORT
OLNEY, ILLINOIS

Hanson Project No. 09A0146D_0800			
Filename E=100.DWG			
Scale NO SCALE			
Date 03/19/10			
LAYOUT	PUG	3/15/10	
DRAWN	PUG	3/15/10	
REVIEWED	KNL	3/16/10	



T-HANGAR
ACCESS ROAD
ELECTRICAL LEGEND
AND ABBREVIATIONS



- NOTES**
- SEE "ELECTRICAL LEGEND AND ABBREVIATIONS" SHEET FOR GENERAL NOTES AND REQUIREMENTS.
 - 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 EQUIPMENT SHOWN NOT LABELED AS EXISTING IS NEW.
 - ALL CONTROL POWER TRANSFORMERS, POWER SUPPLIES, SIMPLEX RECEPTACLES, LOOP DETECTOR AMPLIFIERS, SECONDARY SAFETY DEVICE EQUIPMENT, AND ANY OTHER ASSOCIATED CONTROLS SHALL BE INSTALLED EITHER INSIDE THE GATE OPERATOR CONTROL PANEL OR INSIDE A SEPARATE NEMA 4 STAINLESS STEEL CONTROL PANEL ENCLOSURE. WHERE THE CONTROL EQUIPMENT IS TO BE INSTALLED INSIDE THE GATE OPERATOR CONTROL PANEL THE CONTRACTOR SHALL COORDINATE THIS WITH THE GATE OPERATOR MANUFACTURER AND THE RESPECTIVE GATE OPERATOR EQUIPMENT SUPPLIER. LOCATING THESE CONTROLS OUTSIDE OF GATE OPERATOR CONTROL PANEL BUT WITHIN THE GATE OPERATOR HOUSING WILL NOT MEET THIS REQUIREMENT.
 - PROPOSED 24 FT. ELECTRIC SLIDE GATE WILL BE PAID FOR UNDER ITEM AR162724 ELECTRIC GATE - 24'.
 - REPLACEMENT OF EXISTING SERVICE WITH A NEW ELECTRIC SERVICE & THE REPLACEMENT FEEDER TO THE TERMINAL BUILDING WILL BE PAID FOR UNDER ITEM AR109924 REPLACE ELECTRIC SERVICES PER LUMP SUM.

TERMINAL BUILDING SERVICE PANELBOARD SCHEDULE

CKT #	DUTY	SIZE	SIZE	DUTY	CKT #
1	AC SURGE PROTECTOR	30A 2P	30A 2P	ELECTRIC SLIDE GATE	2
3					4
5	SPARE	30A 2P	20A 1P	SPARE	6
7				BLANK	8
9	NON-DIRECTIONAL BEACON	20A 1P		BLANK	10
11	BLANK			BLANK	12
13	BLANK			BLANK	14
15	BLANK			BLANK	16
17	BLANK			BLANK	18
19	BLANK			BLANK	20
21	BLANK			BLANK	22
23	BLANK			BLANK	24
25	BLANK			BLANK	26
27	BLANK			BLANK	28
29	BLANK			BLANK	30

225 AMP, 120/240 VAC, 1 PHASE, 3 WIRE, 30 CIRCUIT PANELBOARD WITH A 200 AMP, 2 POLE MAIN BREAKER RATED 10,000 AIC AT 120/240 VAC AND FEED THROUGH LUGS IN A NEMA 3R & NEMA 12 ENCLOSURE WITH HINGED COVER, UL LISTED SUITABLE FOR SERVICE ENTRANCE, SQUARE D CLASS 1640, NQ SERIES, OR APPROVED EQUAL. INCLUDE COPPER EQUIP GROUND BAR. BRANCH BREAKERS SHALL BE BOLT-ON TYPE WITH 10,000 AIC AT 120/240 VAC. PANELBOARD BUSES INCLUDING NEUTRAL SHALL BE COPPER.

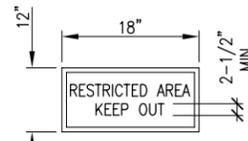
- NOTES**
- PROVIDE SUPPORT RACK WITH STAINLESS STEEL STRUT SUPPORT FOR NEW PANEL. TOP OF PANELBOARD ENCLOSURE SHALL BE 6'-0" NOMINALLY ABOVE FINISHED GRADE.
 - INCLUDE PHENOLIC ENGRAVED LEGEND PLATE LABELED "SERVICE & MAIN DISTRIBUTION PANEL, 120/240 VAC, 1 PH, 3W".
 - INCLUDE WITH PANELBOARD A U.L. LISTED PER UL 1449, AC SURGE PROTECTOR SUITABLE FOR 120/240 VAC, 1 PH, 3W PLUS GROUND SYSTEM, WITH SURGE CURRENT RATING OF 40KA (MIN.), 8x20 MICROSECOND WAVE, PER MODE, AND STATUS INDICATION LIGHTS, JOSLYN MODEL 1265-21, SQUARE D CAT. NO. TVS120XR40S OR APPROVED EQUAL. MAINTAIN LEADS AS SHORT & AS STRAIGHT AS POSSIBLE.
 - RECONNECT EXISTING BRANCH CIRCUIT FOR NON-DIRECTIONAL BEACON TO NEW PANELBOARD.
 - LABEL MAIN SERVICE BREAKER "SERVICE DISCONNECT".

**PROPOSED ELECTRICAL ONE LINE
FOR TERMINAL BLDG & GATE OPERATOR**

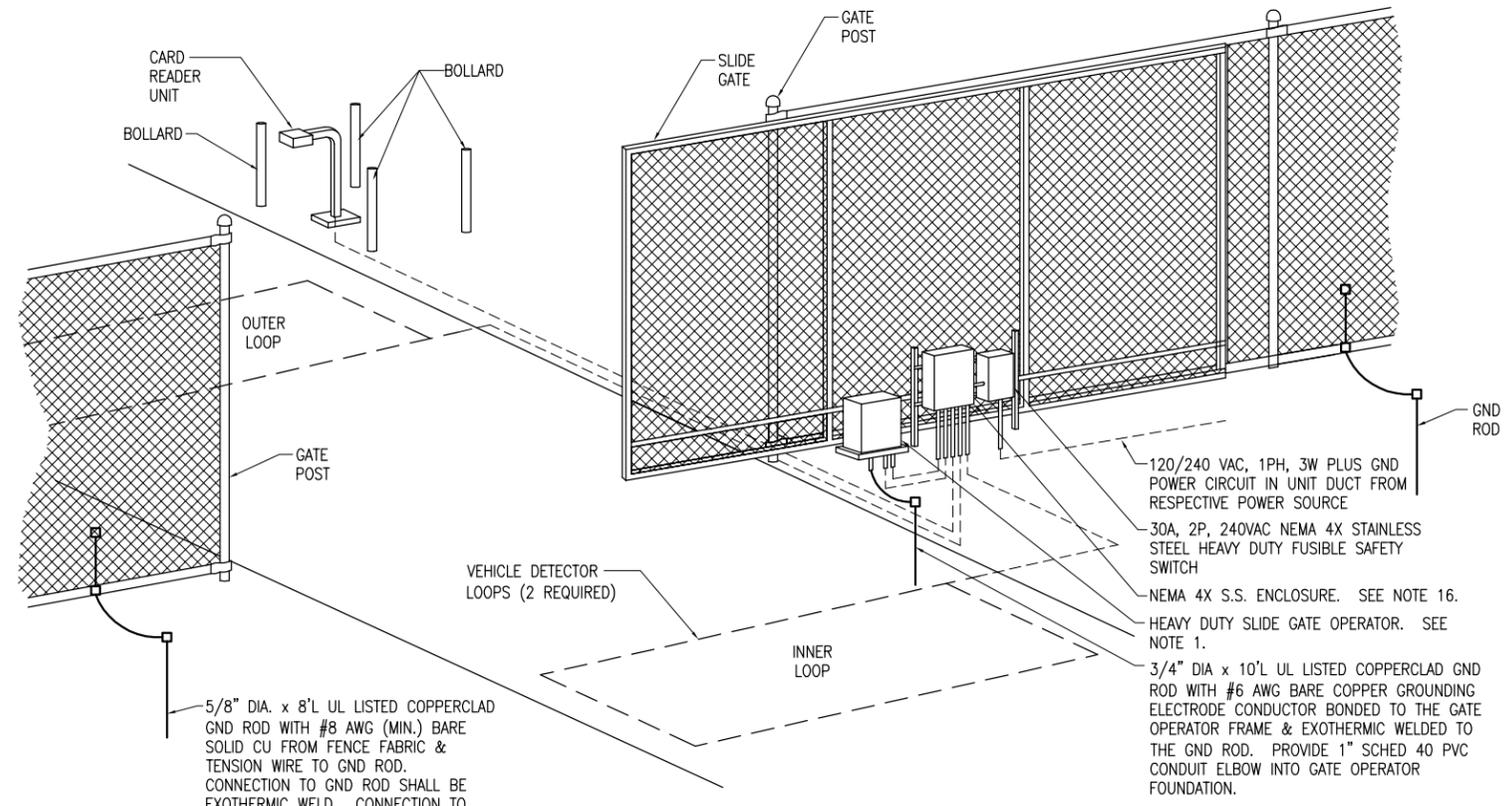
APR 27, 2010 9:15 AM HAGL000382
I:\AIRPORTS\OLNEY\09A0146\CADD\AIRPORT\SHEET\E-602.DWG - Layout1

BY															
REVISION															
DATE															
OLNEY-NOBLE AIRPORT OLNEY, ILLINOIS															
A.I.P. PROJ.: 3-17-0076-B9 IL PROJ.: OLY-3926															
Hanson Project No. 09A0146D_0800 Filename E-602.DWG Scale NO SCALE Date 03/19/10															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>LAYOUT</td> <td>3/15/10</td> </tr> <tr> <td>DRAWN</td> <td>PJG</td> </tr> <tr> <td>REVIEWED</td> <td>KNL</td> </tr> </table>										LAYOUT	3/15/10	DRAWN	PJG	REVIEWED	KNL
LAYOUT	3/15/10														
DRAWN	PJG														
REVIEWED	KNL														
<p style="font-size: small;">Hanson Professional Services Inc. 1600 S. State Street Springfield, IL 62703-2886 Offices Nationwide</p>															
<p style="font-weight: bold; font-size: large;">20</p> <p style="font-size: x-small;">4 of 24 sheets</p>															

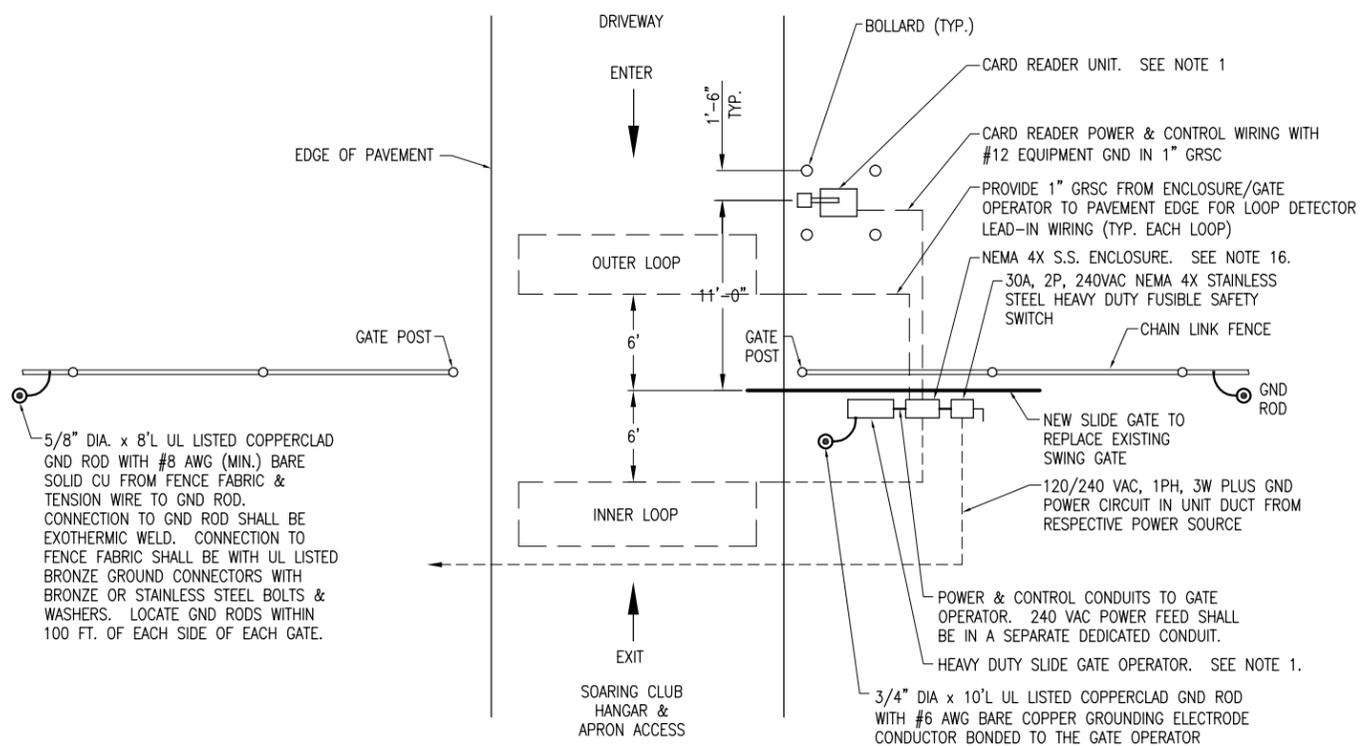
VEHICLE DETECTOR LOOPS		
GATE SIZE	LOOP SIZE	NO. OF TURNS
8' TO 12'	4' X 6'	3 TURNS
12' TO 16'	4' X 10'	2 TURNS
16' TO 20'	6' X 14'	2 TURNS
20' TO 24'	6' X 18'	2 TURNS
24' TO 30'	6' X 22'	2 TURNS
30' TO 34'	6' X 26'	2 TURNS



NOTE:
0.08 GA. ALUMINUM ALLOY SHEET
LETTERING COLOR SHALL BE RED.
EACH GATE SHALL REQUIRE ONE
SIGN. EVERY 100' OF FENCE
SHALL REQUIRE ONE SIGN.



ELECTRIC GATE DETAIL
"NOT TO SCALE"



ELECTRIC GATE PLAN
"NOT TO SCALE"

NOTES:

- SEE SPECIAL PROVISION SPECS FOR REQUIREMENTS ON RESPECTIVE GATE & GATE OPERATOR SYSTEM.
- ALL DIMENSIONS AND LAYOUT INFORMATION SHOWN SHOULD BE ADJUSTED AS RECOMMENDED BY THE MANUFACTURER. SEE RESPECTIVE SITE PLAN FOR EACH GATE.
- CONCRETE FOUNDATIONS SHALL BE PROVIDED FOR THE SLIDE GATE OPERATOR AND THE CARD READER CONTROL UNIT. FOUNDATION FOR THE GATE OPERATOR SHALL BE 48" (MIN.) IN DEPTH AND OF THE SIZE RECOMMENDED BY THE MANUFACTURER PLUS MOUNTING SPACE FOR SAFETY SWITCH & J-BOX. FOUNDATION FOR THE CARD READER ACCESS CONTROL UNIT SHALL BE 48" (MIN.) IN DEPTH, AS DETAILED HEREIN.
- 1" GRS CONDUIT WILL BE REQUIRED BETWEEN THE SLIDE GATE OPERATOR AND THE CARD READER ACCESS CONTROL UNIT AND BETWEEN THE SLIDE GATE OPERATOR AND THE DETECTOR LOOPS. THE MINIMUM BURYING DEPTH IS 24". ALL METAL CONDUITS ENTERING THE GATE OPERATOR SHALL BE BONDED TO THE GATE OPERATOR FRAME WITH A #8 AWG (MIN.) COPPER BONDING JUMPER. CONFIRM CONTROL WIRING REQUIREMENTS WITH THE RESPECTIVE GATE OPERATOR SALES AND SERVICE REPRESENTATIVE.
- THE GUARD/BOLLARD POSTS SHALL BE 4" DIA. STEEL (HEAVY WALL) PIPE, CONCRETE FILLED, AND SHALL EXTEND FROM THE TOP OF THE CARD CONTROL UNIT TO A DEPTH OF 48" BELOW THE GROUND LINE. THE CONCRETE FOOTER DIMENSION SHALL BE AS DETAILED HEREIN. GUARD/BOLLARD POSTS SHALL BE PAINTED WITH YELLOW COLORED ENAMEL FINISH.
- THE SLIDING GATE SHALL BE CANTILEVER TYPE OF THE SIZE CALLED FOR ON THE PLANS, SHALL HAVE AN ENCLOSED ROLLER ASSEMBLY WHICH IS PROTECTED FROM FREEZING RAIN AND SNOW, AND SHALL BE AS MANUFACTURED BY TYMETAL CORPORATION OR APPROVED EQUAL.
- AS PART OF THIS ITEM 250 CARDS AND 5 REMOTE TRANSMITTERS FOR EACH GATE SHALL BE PROVIDED BY THE CONTRACTOR. COORDINATE PROGRAMMING OF CARDS & TRANSMITTER FREQUENCIES WITH THE AIRPORT MANAGER.
- CONTRACTOR SHALL COORDINATE ANY POWER OUTAGES TO EXISTING EQUIPMENT WITH THE RESPECTIVE OWNER'S REPRESENTATIVE AND THE AIRPORT MANAGER.
- INCLUDE AC SURGE PROTECTOR FOR THE GATE OPERATOR, UL 1449 SECOND EDITION LISTED, SURGE CURRENT RATING OF 40KA, SUITABLE FOR USE ON A 120/240 VAC, 1 PHASE, 3 WIRE SYSTEM WITH LED INDICATION OPERATIONAL STATUS, JOSLYN MODEL 1265-21, SQUARE D CAT. NO. TVS120XR40S OR APPROVED EQUAL. INCLUDE MOUNTING BRACKET.
- CONCRETE USED FOR INSTALLING THE GATE OPERATOR, CARD READER, & FENCE SHALL MEET THE REQUIREMENTS OF STRUCTURAL PORTLAND CEMENT CONCRETE ITEM 610.
- 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 UL LISTING, ETL LISTING, (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE WILL NOT BE PERMITTED.
- PROVIDE A WEATHERPROOF ENGRAVED PHENOLIC OR PLASTIC LEGEND PLATE FOR THE SAFETY SWITCH AT THE RESPECTIVE GATE OPERATOR NOTING THE GATE SERVED, VOLTAGE, AND RESPECTIVE POWER SOURCE CIRCUIT AND LOCATION.
- PAYMENT FOR EACH SLIDE GATE, CARD READER, GATE OPERATOR, AND ALL ASSOCIATED CONTROL & SAFETY DEVICES SHALL BE ON A LUMP SUM BASIS AND SHALL BE FULL COMPENSATION FOR ALL MATERIALS, EQUIPMENT, CABLE IN CONDUIT, DUCT, OR UNIT DUCT, GROUNDING, LABOR, TOOLS, COORDINATION, TESTING, AND INCIDENTALS REQUIRED TO INSTALL THE GATE COMPLETE AND IN OPERATING CONDITION.
- CONTROL CIRCUIT WIRING SHALL NOT BE ROUTED THROUGH THE SAFETY SWITCH/DISCONNECT.
- LOCATE RECEIVER ANTENNA TO PROVIDE PROPER OPERATION FROM REMOTE TRANSMITTERS FROM A DISTANCE UP TO 75 FEET. INCLUDE CONDUITS & SUPPORT HARDWARE.
- ALL CONTROL POWER TRANSFORMERS, POWER SUPPLIES, RECEPTACLES, LOOP DETECTOR AMPLIFIERS, SECONDARY SAFETY DEVICE EQUIPMENT, AND ANY OTHER ASSOCIATED CONTROLS SHALL BE INSTALLED EITHER INSIDE THE GATE OPERATOR CONTROL PANEL OR INSIDE A SEPARATE NEMA 4 STAINLESS STEEL CONTROL PANEL ENCLOSURE. WHERE THE CONTROL EQUIPMENT IS TO BE INSTALLED INSIDE THE GATE OPERATOR CONTROL PANEL THE CONTRACTOR SHALL COORDINATE THIS WITH THE GATE OPERATOR MANUFACTURER AND THE RESPECTIVE GATE OPERATOR EQUIPMENT SUPPLIER. LOCATING THESE CONTROLS OUTSIDE OF GATE OPERATOR CONTROL PANEL BUT WITHIN THE GATE OPERATOR HOUSING WILL NOT MEET THIS REQUIREMENT.

BY	REVISION	DATE

OLNEY-NOBLE AIRPORT
OLNEY, ILLINOIS

Hanson Project No. 09A0146D_0800	LAYOUT	3/15/10
Filename E-502.DWG	DRAWN	3/15/10
Scale NO SCALE	REVIEWED	3/16/10
Date 03/19/10		



T-HANGAR
ACCESS ROAD
PROPOSED ELECTRIC
SLIDE GATE DETAILS

BY	
REVISION	
DATE	

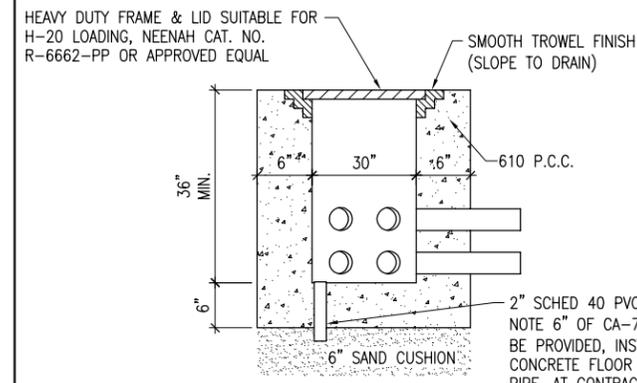
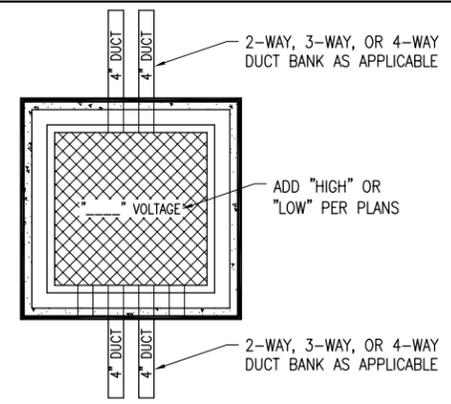
**OLNEY-NOBLE AIRPORT
OLNEY, ILLINOIS**

Hanson Project No.	09A0146D_0800
Filename	E-501.DWG
Scale	NO SCALE
Date	03/19/10
LAYOUT	PUG 3/15/10
DRAWN	PUG 3/15/10
REVIEWED	KNL 3/16/10



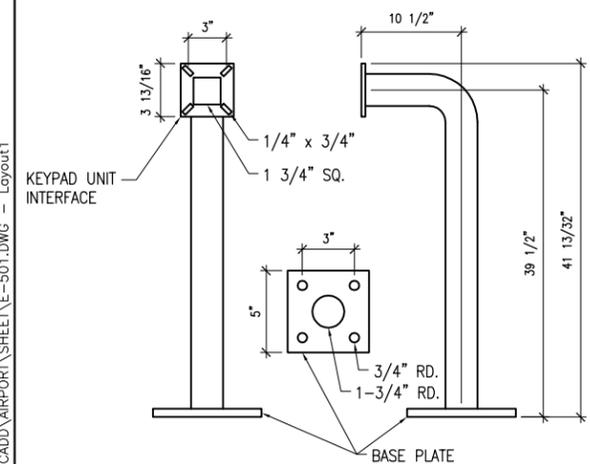
**T-HANGAR
ACCESS ROAD**
ACCESS ROAD
PROPOSED ELECTRICAL
DETAILS SHEET

IL PROJ.: 01Y-3926 A.I.P. PROJ.: 3-17-0076-B9



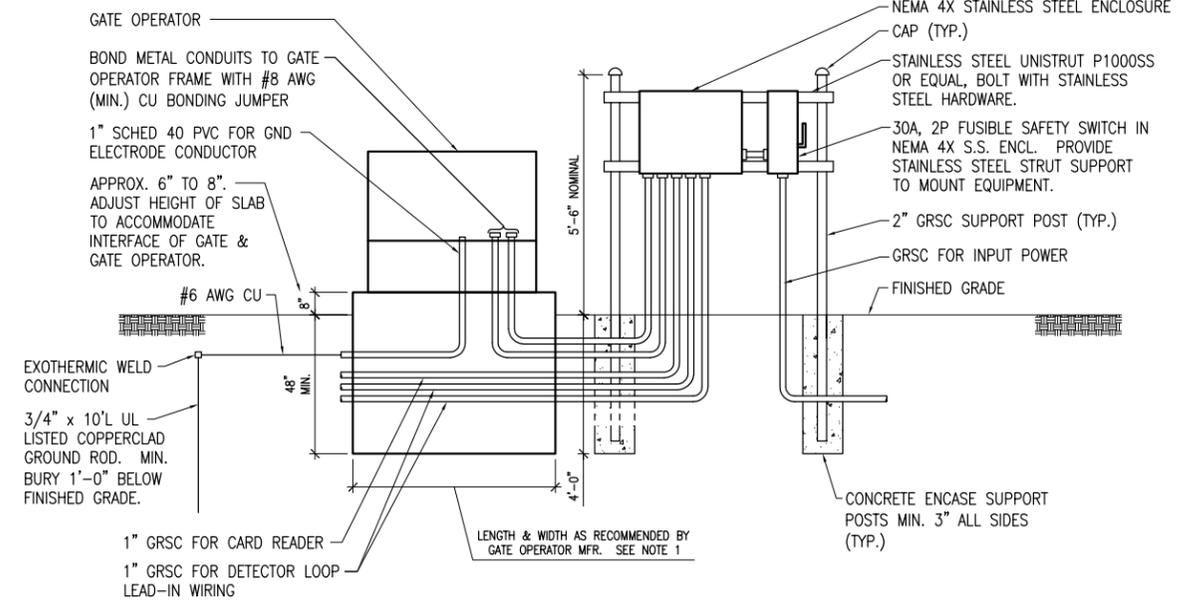
- NOTES:
- LIDS FOR LOW VOLTAGE HANDHOLES SHALL BE LABELED "LOW VOLTAGE". LIDS FOR HIGH VOLTAGE HANDHOLES SHALL BE LABELED "HIGH VOLTAGE". COORDINATE LETTERING WITH MFR.
 - HANDHOLES MAY BE CAST IN PLACE OR PRECAST. PRECAST MANUFACTURERS MUST BE ON IDOT (ILLINOIS DEPT. OF TRANSPORTATION) APPROVED LIST OF CERTIFIED PRECAST CONCRETE PRODUCERS.
 - HANDHOLES WILL BE PAID FOR UNDER ITEM AR110610 ELECTRICAL HANDHOLE PER EACH. SEE SPECIAL PROVISIONS.

ELECTRICAL HANDHOLE
"NOT TO SCALE"



GOOSENECK PEDESTAL DETAIL

NOTE:
GOOSENECK PEDESTAL SHALL BE AMERICAN ACCESS SYSTEMS, INC. (7079 SOUTH JORDAN RD., UNIT 6, ENGLEWOOD, CO 80112, PHONE: 800-541-5677, FAX 303-799-9756) MODEL 18-001 OR APPROVED EQUAL.

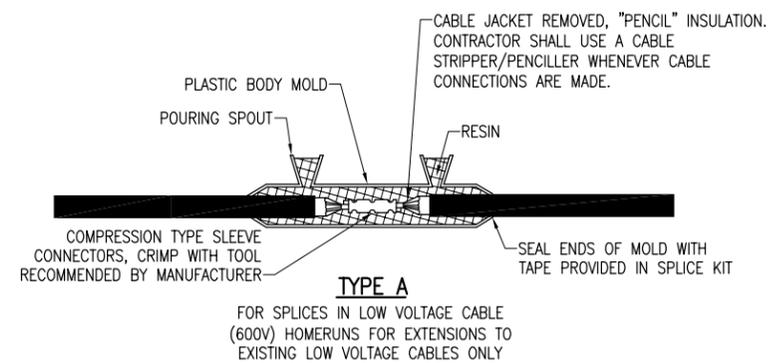


NOTES

- FOUNDATION FOR GATE OPERATOR SHALL BE 48" MIN. IN DEPTH AND OF THE LENGTH & WIDTH RECOMMENDED BY THE MANUFACTURER.
- COORDINATE CONDUITS INTO FOUNDATION.
- CONFIRM CONDUIT SIZES AND WIRING REQUIREMENTS WITH THE GATE OPERATOR MFR. ADJUST/INCREASE CONDUIT SIZES WHERE APPLICABLE. REQUIREMENTS VARY BETWEEN DIFFERENT MANUFACTURERS.
- 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.

GATE OPERATOR FOUNDATION DETAIL

"NOT TO SCALE"



TYPE A
FOR SPLICES IN LOW VOLTAGE CABLE (600V) HOMERUNS FOR EXTENSIONS TO EXISTING LOW VOLTAGE CABLES ONLY

WARNING

Moving Gate Can Cause Serious Injury or Death.

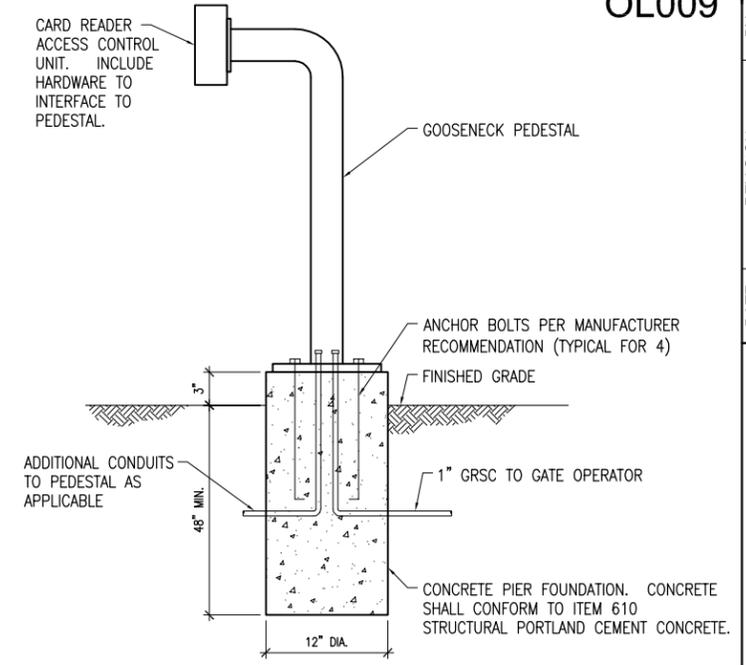
KEEP CLEAR!

Gate May Move At Any Time.
Children Should Not Play Near Gate.
Children Should Not Operate The Gate.
Operate Gate Only When In Sight and Free of People and Obstructions.
This Gate System for Vehicles Only.

NOTES

- WARNING SIGNS/PLACARDS AS DETAILED ABOVE OR SIMILAR, SHALL BE INSTALLED WHERE CLEARLY VISIBLE ON BOTH SIDES OF EACH ELECTRIC SLIDE GATE. WARNING SIGNS SHALL BE WEATHERPROOF, CORROSION RESISTANT METAL, AS DETAILED ABOVE, AND IN ACCORDANCE WITH THE RESPECTIVE GATE MANUFACTURER'S RECOMMENDATIONS, B&B ARMR PART NO. 0000-0017, HY-SECURITY PART NO. MX000882, OR EQUAL.

WARNING SIGN DETAIL

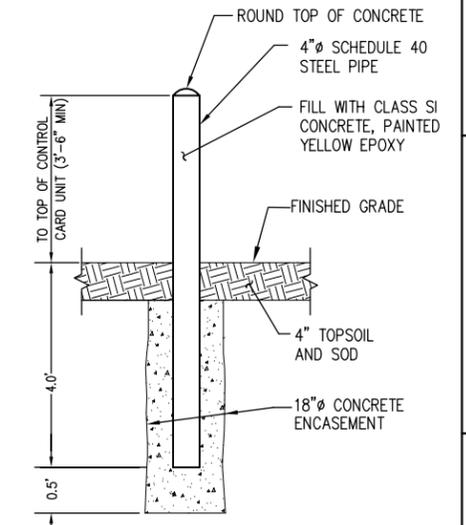


NOTES

- SEE SPECIAL PROVISION SPECS FOR REQUIREMENTS ON CARD READER ACCESS CONTROL UNIT.
- INCLUDE #12 AWG EQUIPMENT GND WIRE TO CARD READER.
- FACE OF CARD READER SHALL NOT EXTEND BEYOND BOLLARDS.

CARD READER ACCESS CONTROL UNIT PEDESTAL ELEVATION DETAIL

SCALE: NONE



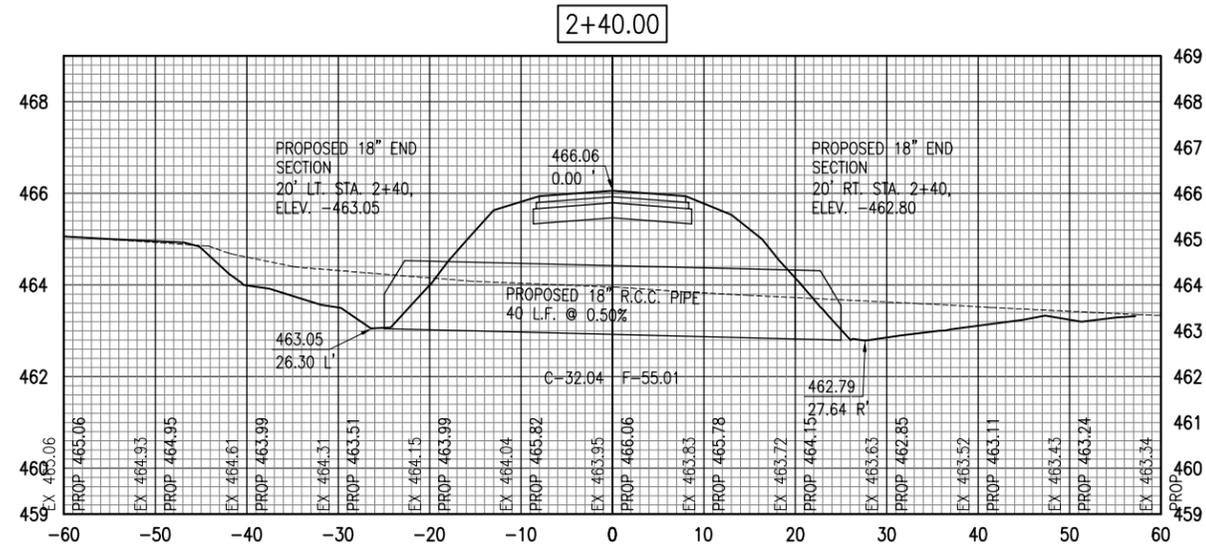
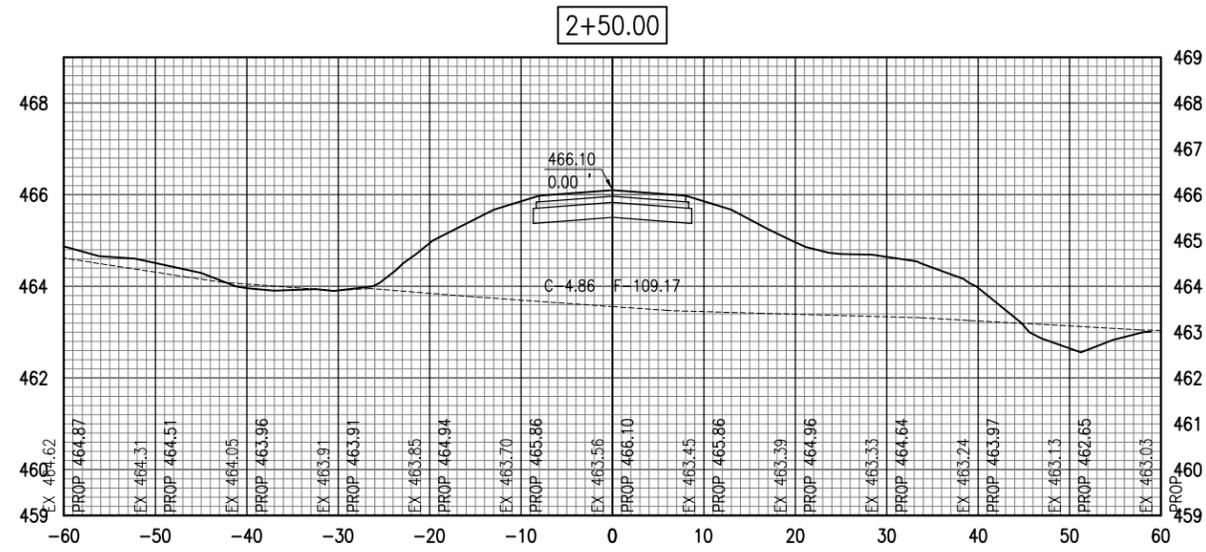
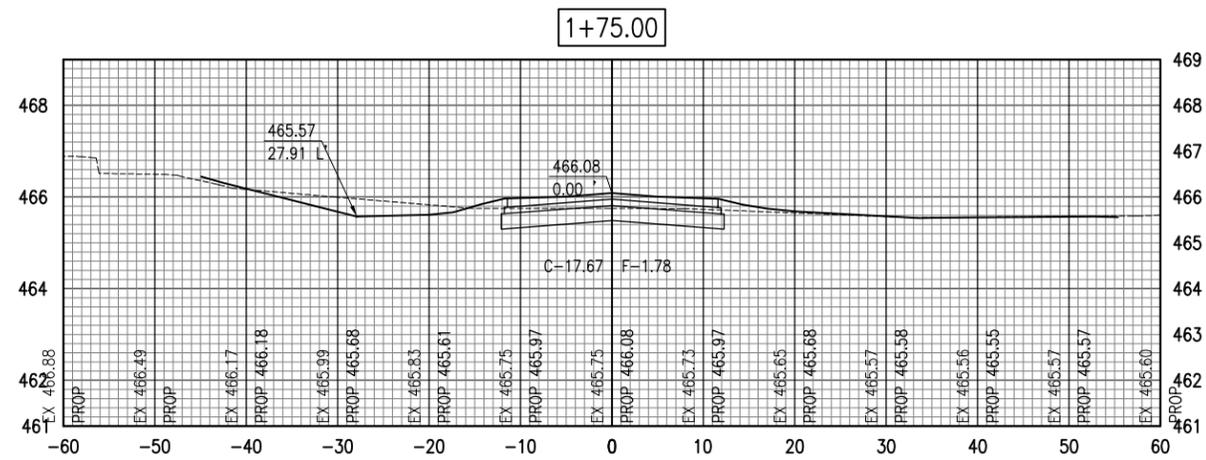
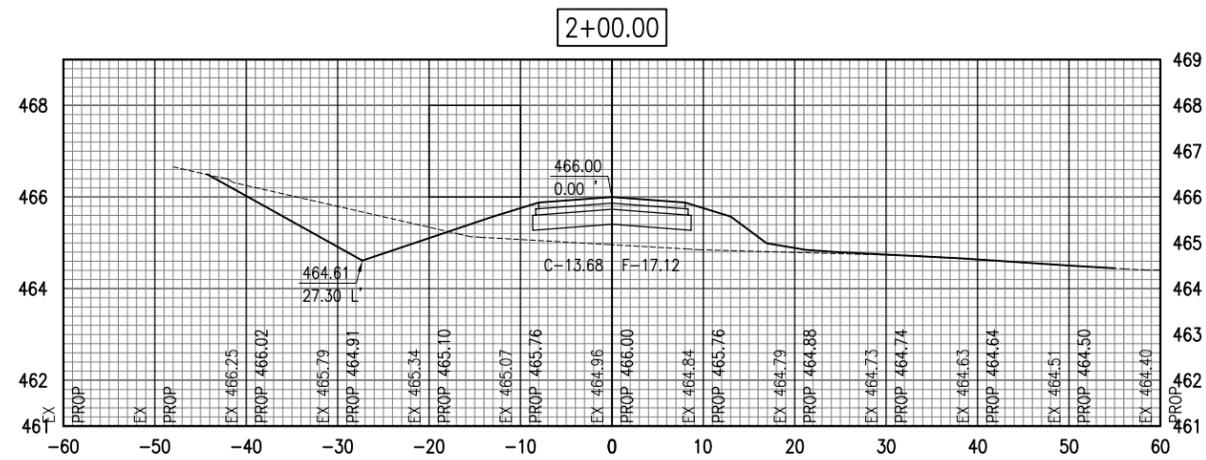
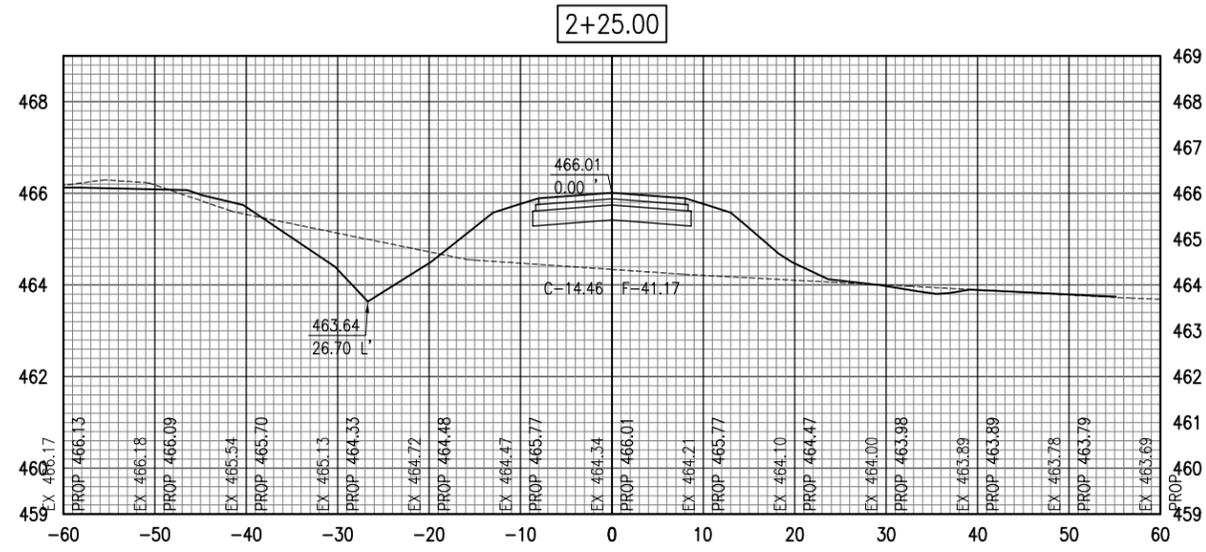
NOTES

- THE EXPOSED PORTION OF THE BOLLARD SHALL BE PAINTED YELLOW EPOXY.
- BOLLARD AND ASSOCIATED ITEMS ARE INCIDENTAL TO THE ELECTRIC SLIDING GATE.

BOLLARD DETAIL

APR 27, 2010 9:11 AM HAGL000382 I:\AIRPORTS\OLNEY\09A0146\CADD\AIRPORT\SHEET\E-501.DWG - Layout1

APR 27, 2010 9:37 AM HAGL000382
I:\AIRPORTS\OLNEY\09A0146\CADD\AIRPORT\SHEET\R-XSEC2.DWG - 1+75 - 2+50



DATE	REVISION	BY

**OLNEY-NOBLE AIRPORT
OLNEY, ILLINOIS**

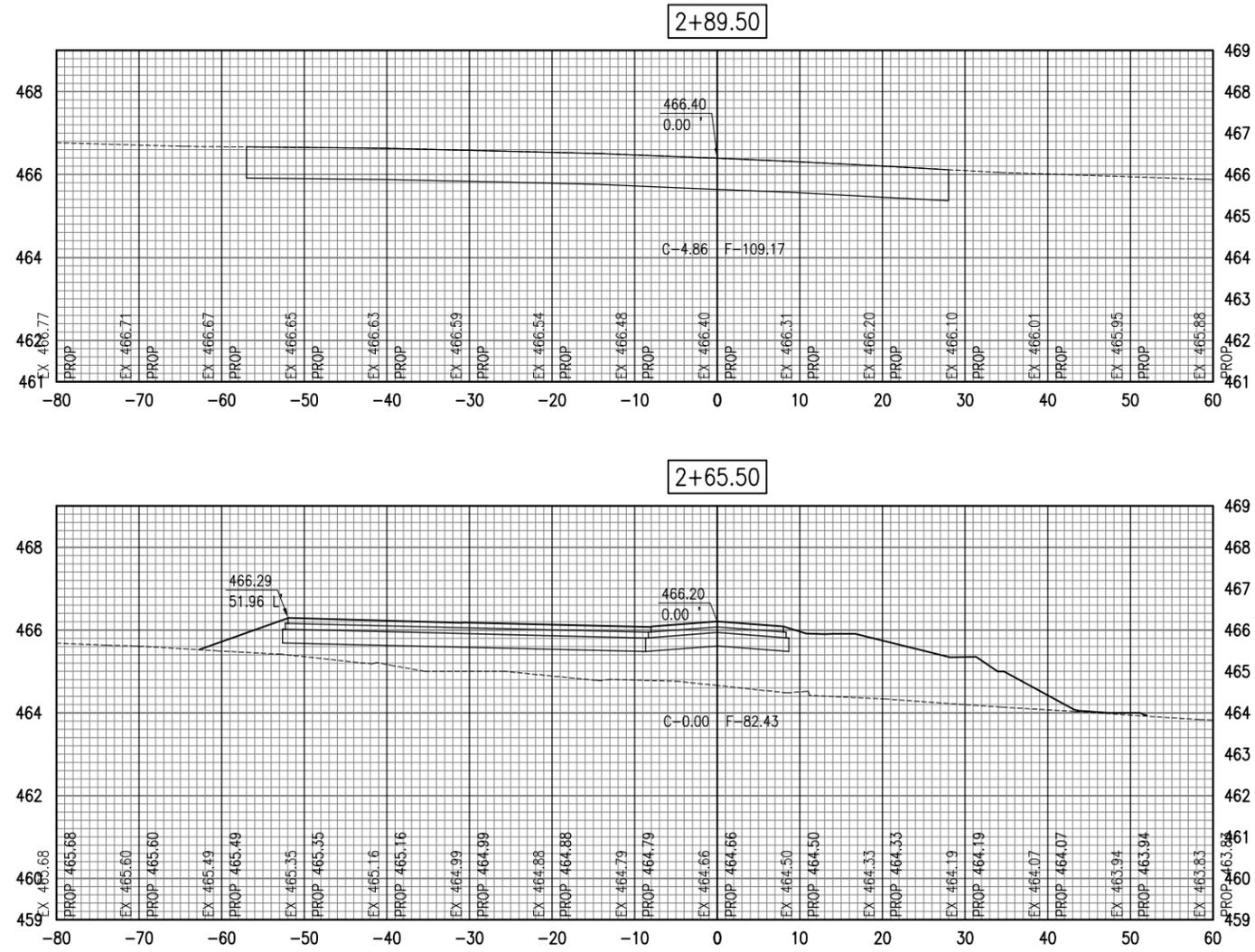
IL PROJ.: 01Y-3926 A.I.P. PROJ.: 3-17-0076-B9

Hanson Project No. 09A0146D_0800	FILENAME R-XSEC2.DWG	Scale 1" = 10'	Date 11/05/09
LAYOUT	JEO	11/05/09	
DRAWN	JEO	11/05/09	
REVIEWED	CAH	xx/xx/xx	



**T-HANGAR
ACCESS ROAD**

PROPOSED-T-HANGAR ACCESS
ROAD CROSS-SECTIONS
STA. 1+75 TO STA. 2+50



DATE	REVISION	BY

**OLNEY-NOBLE AIRPORT
 OLNEY, ILLINOIS**

IL PROJ.: 01Y-3926 A.I.P. PROJ.: 3-17-0076-B9

Hanson Project No. 09A0146D_0800	LAYOUT	JEO	11/05/09
Filename R-XSEC2.DWG	DRAWN	JEO	11/05/09
Scale 1" = 10'	REVIEWED	CAH	xx/xx/xx
Date 11/05/09			



**T-HANGAR
 ACCESS ROAD**

PROPOSED T-HANGAR ACCESS
 ROAD CROSS-SECTIONS
 STA. 2+65.5 TO STA. 2+89.5