JULY 29, 2016 - ITEM 15A

TOTAL SHEETS: 72
UN055

CONSTRUCTION PLANS FOR
WILLARD AIRPORT

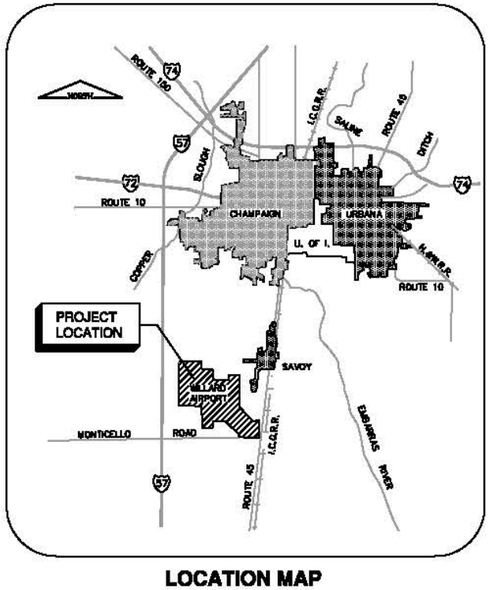
UNIVERSITY OF ILLINOIS
SAVOY, ILLINOIS

IL. PROJ. NO. CMI-4503 **CONTRACT NO. UN056**

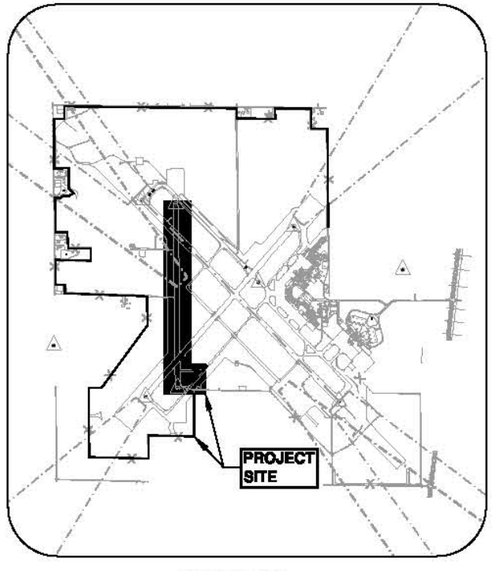
AIP PROJ. NO. 3-17-0016-XX

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

JUNE 3, 2016



LOCATION MAP



SITE PLAN

CALL J.U.L.I.E.
BEFORE EXCAVATING
1-800-892-0123

UNIVERSITY OF ILLINOIS - WILLARD AIRPORT

TOWNSHIP: T 19 N
RANGE: R 9 E
COUNTY: CHAMPAIGN
SECTION 2, 3, 10 AND 11

TAXIWAY B

DESIGN GROUP - ADG III

TAXIWAY DESIGN GROUP 3
DESIGN APPROACH CATEGORY - C

PAVEMENT STRUCTURE DESIGN DATA

GROSS WEIGHT - 60,000 LBS.
DUAL WHEEL GEAR

GROUND CONTROL RADIO FREQUENCY - 121.8
ATIS FREQUENCY - 124.85

APPROXIMATE MAXIMUM HEIGHT OF EQUIPMENT ABOVE GROUND IS 25 FT.

June 2, 2016
CHRISTOPHER B. GROTH
062-056232
LICENSED PROFESSIONAL ENGINEER OF
ILLINOIS
Exp. 11/30/17

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT

APPROVED Stephen J. Wunder
STEPHEN J. WUNDER, ASSOCIATE DIRECTOR
DATE 3 JUNE 2016

CMT

License No. 184-000613

SUBMITTED BY
DATE June 2, 2016

CMT JOB NUMBER: 15059-03-00

R:\Champaign\15059\03\Dwg\Sheets
FILE: CMI4503--15059\03--GI001.dwg
UPDATE BY: Drew Allen
PLOT DATE: 6/7/2016 4:26 PM

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT
AR108065	RGL CABLE	850	LF
AR108158	1/C #8 5KV UG CABLE IN UD	8425	LF
AR108960	REMOVE CABLE	14085	LF
AR108970	SUBSURFACE LOCATE	1	LS
AR108980	CABLE PROTECTION SLAB	2700	LF
AR110014	4" DIRECTIONAL BORE	165	LF
AR110504	4-WAY CONCRETE ENCASED DUCT	70	LF
AR110900	REMOVE DUCT	524	LF
AR125415	MITL BASE-MOUNTED	26	EA
AR125416	MITL BASE-MOUNTED - LED	20	EA
AR125443	TAXI GUIDANCE SIGN, 3 CHARACTER	2	EA
AR125444	TAXI GUIDANCE SIGN, 4 CHARACTER	2	EA
AR125445	TAXI GUIDANCE SIGN, 5 CHARACTER	1	EA
AR125446	TAXI GUIDANCE SIGN, 6 CHARACTER	1	EA
AR125510	MIRL, BASE MOUNTED	5	EA
AR125515	HIRL, BASE MOUNTED	2	EA
AR125565	SPLICE CAN	2	EA
AR125740	RUNWAY GUARD LIGHT	2	EA
AR125902	REMOVE BASE MOUNTED LIGHT	114	EA
AR125904	REMOVE TAXI GUIDANCE SIGN	22	EA
AR125906	REMOVE SPLICE CAN	1	EA
AR125908	REMOVE PAPI	1	EA
AR125909	REMOVE VASI	1	EA
AR150510	ENGINEER'S FIELD OFFICE	1	LS
AR150540	HAUL ROUTE	1	LS
AR152410	UNCLASSIFIED EXCAVATION	4000	CY
AR152419	UNCLASSIFIED DISPOSAL OFFSITE	3311	CY
AR152441	ON-SITE BORROW	46600	CY
AR152451	SHOULDER EMBANKMENT	46600	CY
AR154510	RECYCLED CONCRETE, 2-INCH MINUS GRADATION	8000	CY
AR154515	RECYCLED CONCRETE, 4-INCH MINUS GRADATION	29900	CY
AR156500	TEMPORARY EROSION CONTROL	1	LS
AR209604	CRUSHED AGG. BASE COURSE - 4"	5525	SY
AR401504	BITUMINOUS SURFACE COURSE-4"	800	SY
AR401650	BITUMINOUS PAVEMENT MILLING	8600	SY
AR501516	16" PCC PAVEMENT	5400	SY
AR501550	PCC PAVEMENT MILLING	800	SY
AR501940	PCC BREAKING	86500	SY
AR501941	PCC CRUSHING	33106	CY
AR605510	JOINT SEALING FILLER	6700	LF
AR620520	PAVEMENT MARKING - WATERBORNE	6000	SF
AR620525	PAVEMENT MARKING - BLACK BORDER	3400	SF
AR620555	PREFORMED THERMOPLASTIC	670	SF
AR620900	PAVEMENT MARKING REMOVAL	2950	SF
AR701512	12" RCP, CLASS IV	48	LF
AR701515	15" RCP, CLASS IV	16	LF
AR701518	18" RCP, CLASS IV	232	LF
AR701530	30" RCP, CLASS IV	40	LF
AR705524	4" PERFORATED UNDERDRAIN W/ SOCK	1283	LF
AR705640	UNDERDRAIN CLEANOUT	4	EA
AR705645	UNDERDRAIN CONNECTION	2	EA
AR705900	REMOVE UNDERDRAIN	11695	LF
AR751415	INLET-SPECIAL	1	EA
AR751903	REMOVE MANHOLE	1	EA
AR752412	PRECAST REINFORCED CONC. FES 12"	4	EA
AR752418	PRECAST REINFORCED CONC. FES 18"	14	EA
AR752430	PRECAST REINFORCED CONC. FES 30"	2	EA
AR901510	SEEDING	35	AC
AR904510	SODDING	1500	SY
AR908510	MULCHING	35	AC
AR908525	KNITTED STRAW MAT	1500	SY
AR910200	ROADWAY SIGN	5	EA

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24	CD502	REMOVAL PROCESS
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License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX

IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056

CMT PROJECT NO: 15059-03-00

CAD DWG FILE: CMI4503-1505903-GI002.DWG

DESIGNED BY: CBG

DRAWN BY: DPA

CHECKED BY: JEF

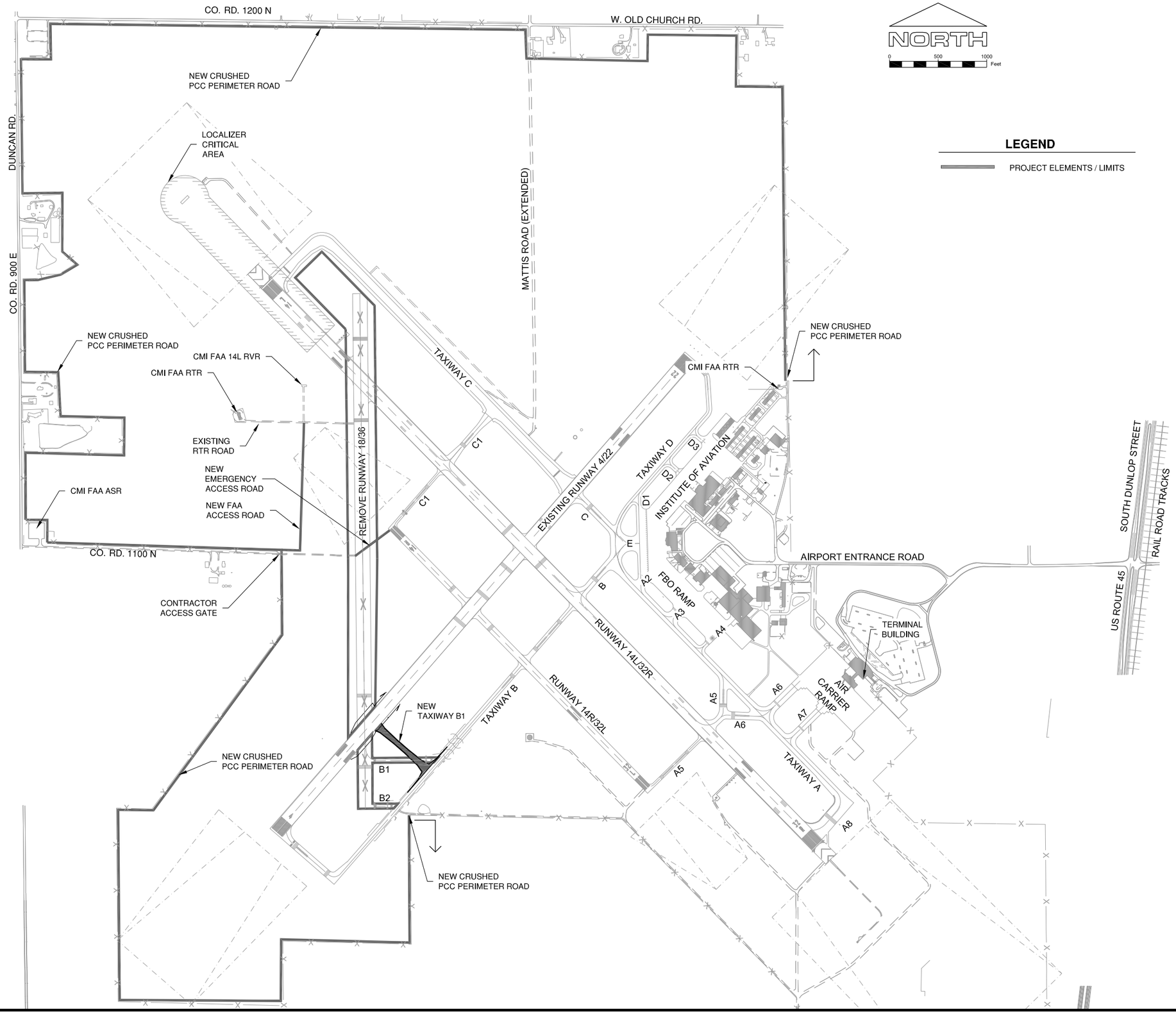
APPROVED BY: CBG

SHEET TITLE

INDEX TO SHEETS & SUMMARY OF QUANTITIES

GI002

SHEET 2 OF 72



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Date: Tuesday, June 7, 2016 4:29:09 PM

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IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-GI101.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

AIRPORT SITE PLAN

GI101

SHEET 3 OF 72

GENERAL NOTES

1. ALL RUNWAYS, TAXIWAYS AND APRONS SHALL BE KEPT OPEN TO AIRCRAFT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED IN THE CONSTRUCTION ACTIVITY PLANS OR AS DIRECTED BY THE AIRPORT MANAGER.
2. ALL CONSTRUCTION TRAFFIC OPERATING ON OR CROSSING ACTIVE RUNWAYS, TAXIWAYS AND APRONS SHALL BE UNDER CONTROL OF A FLAGGER IN RADIO CONTACT WITH FAA AIR TRAFFIC CONTROL TOWER PERSONNEL AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE HIS OWN RADIOS & FLAGGING PERSONNEL.
3. WHEN CONFLICTS ARISE BETWEEN CONSTRUCTION ACTIVITIES AND AIRCRAFT OPERATIONS AND SAFETY, AIRCRAFT OPERATIONS AND SAFETY SHALL TAKE PRECEDENCE AND SHALL GOVERN. FINAL AUTHORITY IN THE APPROVAL OF CLOSING AND OPENING PAVEMENTS AND CONSTRUCTION SEQUENCING LIES WITH THE AIRPORT MANAGER.
4. THE CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS AT THE LOCATION SHOWN FOR THE "CONTRACTOR'S STAGING, STORAGE, PARKING SITE AND FIELD OFFICE".
5. BROKEN OR WASTE CONCRETE AND ASPHALT IN EXCESS OF WHAT IS TO BE INCORPORATED INTO THE PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR OFF AIRPORT PROPERTY, UNLESS DIRECTED BY THE AIRPORT MANAGER.
6. VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED WITHIN AREAS 130' (ADG III - OFA) FROM THE CENTERLINE OF ACTIVE TAXIWAYS OR 250' FROM THE CENTERLINE OF ACTIVE RUNWAYS.
7. ALL PAVEMENTS, DRIVES AND OTHER AREAS USED BY THE CONTRACTOR FOR HAUL ROADS AND STORAGE AREAS SHALL BE MAINTAINED AND REPAIRED IN KIND BY THE CONTRACTOR TO THE SATISFACTION OF THE AIRPORT MANAGER. NO ADDITIONAL COMPENSATION SHALL BE MADE TO THE CONTRACTOR FOR THIS WORK.
8. EXISTING TURF & AGRICULTURAL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS OUTSIDE OF THE TURFING LIMITS SHALL BE COMPLETELY RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE AIRPORT MANAGER. DAMAGE TO EXISTING CROPS ADJACENT TO THE WORK AREA SHALL BE QUANTIFIED BY THE AIRPORT AND COST TO COMPENSATE THE FARMER REIMBURSED BY THE CONTRACTOR AT (2500/AC).
9. THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL CONSTRUCTION AREAS PRIOR TO OPENING TO AIR TRAFFIC.
10. REFER TO THE CONSTRUCTION ACTIVITY PLANS AND THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS CONCERNING COORDINATION OF CONSTRUCTION ACTIVITIES.
11. THE AIRFIELD RESCUE AND FIREFIGHTING VEHICLES SHALL HAVE COMPLETE ACCESS TO THE ENTIRE AIRFIELD INCLUDING THE CLOSURE AREAS.
12. THE CONTRACTOR IS REQUIRED TO GIVE TEN (10) FULL WORKING DAYS NOTICE TO THE AIRPORT MANAGER PRIOR TO CLOSING WORK AREAS TO AIRCRAFT.
13. AT THE PRECONSTRUCTION MEETING, CONTRACTOR SHALL SUPPLY THE AIRPORT MANAGER WITH PROPOSED CLOSURE AND PHASING DATES FOR HIS REVIEW AND APPROVAL. THE RESIDENT ENGINEER SHALL KEEP THE AIRPORT MANAGER ADVISED OF ANY PROPOSED CHANGES IN CLOSURE AND PHASING DATES.
14. ALL CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL DISPLAY AN ORANGE AND WHITE CHECKED AVIATION SIGNAL FLAG, EXCEPT HAUL VEHICLES.
15. ANY VEHICLE OPERATING WITHIN A MOVEMENT AREA DURING THE HOURS OF DARKNESS SHOULD BE EQUIPPED WITH AN AMBER REVOLVING OR FLASHING DOME-TYPE LIGHT AS SPECIFIED IN THE SPECIAL PROVISIONS.
16. IF, DURING CONSTRUCTION, AN EMERGENCY IS DECLARED BY THE AIRPORT, THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE PAVEMENT OF ALL VEHICLES, PERSONNEL AND EQUIPMENT.

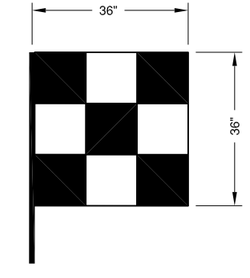
CONTRACTOR'S RESPONSIBILITY FOR UTILITY SERVICE

THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. 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 UNDER- GROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OF HIS OPERATIONAL PLANS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR DETAILED INFORMATION AND ASSISTANCE IN LOCATING UTILITIES. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY, THE OWNER AND THE ENGINEER. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.

CONTRACTOR'S ACCESS

1. CONTRACTOR'S ACCESS SHALL BE AS FOLLOWS:
   - A. THE CONTRACTOR'S ACCESS TO THE WORK SHALL BE AS SHOWN ON THE SITE PLAN AND CONSTRUCTION ACTIVITY PLANS.
   - B. DURING ADVERSE WEATHER, THE CONTRACTOR SHALL MAKE PROVISIONS FOR ACCESS TO THE WORK SITE AT NO ADDITIONAL COST TO THE CONTRACT. NO EXTENSION OF CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE WORK.
   - C. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A HEAVY-DUTY PADLOCK ON THE ACCESS GATE. HE SHALL PROVIDE KEYS FOR THIS PADLOCK TO THE RESIDENT ENGINEER, AIRPORT SECURITY, AND MAINTENANCE SUPERVISOR. NO ADDITIONAL KEYS ARE TO BE DISTRIBUTED UNLESS AUTHORIZED BY THE AIRPORT MANAGER.
   - D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL CONSTRUCTION ACCESS GATES CLOSED & SECURED AT ALL TIMES INCLUDING WORK HOURS. IF THE CONTRACTOR CHOOSES TO LEAVE THE GATE OPEN, HE SHALL POST A COMPETENT, FULL TIME SECURITY GUARD TO PREVENT UNAUTHORIZED ENTRIES. THE CONTRACTOR SHALL REPLACE ANY UNSATISFACTORY SECURITY GUARDS IF SO DIRECTED BY THE AIRPORT MANAGER OR ENGINEER.
   - E. THE CONTRACTOR SHALL CLOSE AND LOCK THE ACCESS GATES UPON LEAVING THE SITE.
   - F. THROUGHOUT THE DURATION OF THE CONTRACT, ANY DAMAGE TO THE ACCESS GATES OR FENCING ADJACENT TO THE PROJECT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE AIRPORT MANAGER.
   - G. ALL COSTS RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
   - H. THE CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS IN SUCH A WAY AS TO NOT DISTURB AGRICULTURAL AREAS OR VIOLATE THE PART 77 APPROACH AND PRIMARY SURFACES.
   - I. EMPLOYEE PERSONAL VEHICLES SHALL NOT BE ALLOWED BEYOND THE CONTRACTOR'S PARKING AREA. CONTRACTOR PERSONNEL SHALL PARK IN THE CONTRACTOR'S STAGING & STORAGE CONSISTENT AREA. PERSONNEL SHALL BE TRANSPORTED TO THE WORK SITE BY COMPANY OWNED VEHICLES.
   - J. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL ACCESS ROADS WITH THE APPROPRIATE LOCAL AGENCY RESPONSIBLE FOR THE ROADWAY.
   - K. THE CONTRACTOR SHALL HAVE A VACUUM TYPE SWEEPER AVAILABLE AT ALL TIMES.
2. AN AREA WILL BE PROVIDED BY THE AIRPORT TO THE CONTRACTOR AS THE STAGING, STORAGE AND EMPLOYEE PARKING SITE, AT THE LOCATION SHOWN.
3. A LIST OF AUTHORIZED PERSONNEL PERMITTED TO USE THE GATE SHALL BE PROVIDED BY THE CONTRACTOR TO THE RESIDENT ENGINEER.
4. THE CONTRACTOR SHALL PROVIDE A SIGN AT THE ACCESS GATE SAYING "AUTHORIZED PERSONNEL & CONSTRUCTION ACCESS ONLY".
5. SUPERINTENDENT, SUPERVISING FOREMEN, ESCORT PERSONNEL AND SECURITY GUARDS ON THE AIRFIELD WILL BE REQUIRED TO SUBMIT A TEN YEAR BACKGROUND CHECK TO AIRPORT SECURITY AND WILL BE REQUIRED TO BE TRAINED BY THE AIRPORT TO GAIN ACCESS PER SECTION 80-13 OF THE SPECIFICATIONS. CONTRACTOR SHALL COORDINATE THE BADGING PROCESS A MINIMUM OF 10 DAYS PRIOR TO REQUESTING ACCESS TO THE FIELD.



VEHICLE SIGNAL FLAG
(ORANGE / WHITE)
N.T.S.

GROUND CONTROL FREQUENCY 121.8 MHZ

MAXIMUM EQUIPMENT HEIGHT 25 FEET

CMT
License No. 184-000613
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DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE
GENERAL NOTES

GI102
SHEET 4 OF 72

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Date: Tuesday, June 7, 2016 4:30:24 PM

SEQUENCE OF CONSTRUCTION NOTES

THE GENERAL PROGRESSION OF THE WORK SHALL BE AS FOLLOWS:

A. SUBMIT EQUIPMENT AND BUILDING SHOP, PLAN AND WORKING DRAWINGS FOR REVIEW. INCLUDE WITH THE SUBMITTALS ALL BUY AMERICAN CERTIFICATIONS FOR ALL MATERIALS.

B. SUBMIT NOTICE OF OBSTRUCTION EVALUATION- AIRPORT AIRSPACE ANALYSIS (OE/AAA) INFORMATION FOR ANTICIPATED EQUIPMENT HEIGHTS IF IN EXCESS OF 25'. NOTE THAT THIS PROCESS MAY REQUIRE UP TO 90 DAYS FOR FAA APPROVAL. EQUIPMENT ABOVE 25' HEIGHT SHALL NOT BE UTILIZED UNTIL FAA APPROVAL HAS BEEN PROVIDED.

C. SUBMIT PROJECT SCHEDULE SHOWING RELATIONSHIP BETWEEN CONSTRUCTION DURATION FOR PAY ITEMS IN RELATION TO THE PHASES OF WORK WHERE THEY ARE BEING PERFORMED. CLEARLY IDENTIFY DATES OF RUNWAY CLOSURES AND WHAT PHASES WILL BE WORKED IN DURING THAT CLOSURE.

D. SUBMIT PRELIMINARY MATERIALS CERTIFICATIONS INCLUDING BUY AMERICAN CERTIFICATIONS AND WAIVER REQUEST FOR MATERIALS THAT DO NOT MEET THE CONTRACT REQUIREMENTS.

E. INSTALL BARRICADES AS OUTLINED ON THE CONSTRUCTION ACTIVITY PLANS. INITIATE DEMOLITION AND REMOVAL OF EXISTING PAVEMENTS. FIELD-VERIFY LOCATION OF EXISTING CIRCUITS, AND PERFORM TESTING ON EXISTING AIRFIELD CIRCUITS TO VERIFY CONDITION OF CIRCUIT CABLES. THE R.E. SHALL BE PRESENT AT THE TIME OF TESTING AND SHALL BE GIVEN A COPY OF THE TEST RESULTS.

F. INITIATE CONSTRUCTION WITHIN THE VARIOUS PHASES OF THE PROJECT. REMOVAL OF 18/36 AND TAXIWAYS B1 & B2 SHALL BE CONSIDERED THE PRIMARY WORK AREAS. WORK IN THESE AREAS SHALL INCLUDE REMOVAL OF PAVEMENT/ELECTRICAL EQUIPMENT, EARTH EMBANKMENT EXCAVATION, PAVEMENT CONSTRUCTION, DRAINAGE IMPROVEMENTS, ELECTRICAL IMPROVEMENTS, PAVEMENT MARKING AND TURFING.

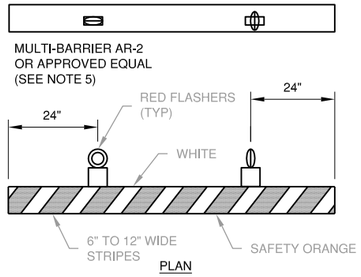
G. UPON COMPLETION OF ALL PHASES, THE CONTRACTOR SHALL REQUEST A FINAL INSPECTION OF THE PROJECT.

RUNWAY SAFETY AREAS

1. WORK IN THE RUNWAY 14R/32L APPROACH SHALL BE LIMITED TO THE WORK NECESSARY TO REMOVE THE 18/36 PAVEMENT, CONSTRUCT PAVEMENT, GRADE & SEED.
2. WORK IN THE RUNWAY 4/22 SAFETY AREA SHALL BE LIMITED TO THE WORK NECESSARY TO REMOVE EXISTING PAVEMENTS AND CONSTRUCT THE CONNECTING TAXIWAY B1.
3. WORK IN THE RUNWAY 14R/32L SAFETY AREA AND APPROACH SHALL BE LIMITED TO THE WORK NECESSARY TO REMOVE THE 18/36 PAVEMENT, CONSTRUCT ACCESS, GRADE AND SEED.
4. RUNWAY 4/22, RUNWAY 14R/32L AND RUNWAY 14L/32R SHALL NOT BE CLOSED AT THE SAME TIME.
5. EQUIPMENT OR PERSONNEL SHALL REMAIN CLEAR OF THE RUNWAY PAVEMENTS AT ALL TIMES UNLESS INSTRUCTED BY A FLAGGER IN RADIO CONTACT WITH THE CONTROL TOWER.
6. NO EQUIPMENT, STOCKPILES OR EXCAVATIONS SHALL REMAIN INSIDE THE RUNWAY SAFETY AREAS AFTER WORKING HOURS.

APRON / TAXIWAY OBJECT FREE AREAS

1. WORK IN THE TAXIWAY OBJECT FREE AREAS SHALL REQUIRE THAT TAXIWAY TO BE CLOSED. WORK WITHIN THE TAXIWAY OBJECT FREE AREAS BUT NOT ON THE HARD SURFACE OF THE TAXIWAY SHALL INCLUDE TAXIWAY GUIDANCE SIGN INSTALLATION, TRENCHING CABLE, AND LIGHT INSTALLATION. WORK WITHIN THE TAXIWAY OBJECT FREE AREAS ON THE HARD SURFACE WILL INCLUDE PAVEMENT MARKING AND PAVEMENT MARKING REMOVAL.
2. NO EQUIPMENT, OPEN TRENCHES OR EXCAVATIONS SHALL REMAIN INSIDE THE TAXIWAY OBJECT FREE AREAS AFTER WORKING HOURS.
3. THE TAXIWAYS SHALL BE CLOSED WITH BARRICADES AT 15' MAXIMUM SPACING PRIOR TO WORKING IN THE CRITICAL WORK AREAS.

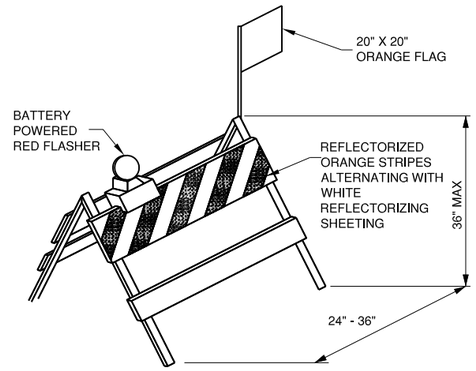


LOW PROFILE LIGHTED BARRICADE

NTS

BARRICADE NOTES

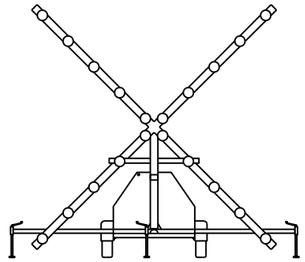
1. FLASHERS SHALL BE BATTERY OPERATED. LENS SHALL BE RED AND BE ABLE TO ROTATE 90°.
2. FACING OF BARRICADE SHALL BE COVERED WITH REFLECTIVE TAPE OR PAINT.
3. BARRICADES ARE TO BE PLACED WITH A MAXIMUM OF 15' SPACING BETWEEN ENDS OF BARRICADES ALONG OPERATIONAL PAVEMENT ADJACENT TO CONSTRUCTION OR AS DIRECTED BY THE RESIDENT ENGINEER. ROTATE EVERY OTHER FLASHER LENS 90°.
4. FLASHERS SHALL BE SECURED TO THE BARRICADES, AS APPROVED BY THE RESIDENT ENGINEER.
5. BARRICADES SHALL BE OF LOW MASS, EASILY COLLAPSIBLE UPON CONTACT WITH AN AIRCRAFT OR ANY OF ITS COMPONENTS, AND WEIGHTED TO THE SURFACE.



NOTE:
BARRICADES SHALL BE PLACED AS SHOWN ON THE CONSTRUCTION ACTIVITY PLANS 15' ON CENTER AT DESIGNATED LOCATIONS. BARRICADE SHALL BE WEIGHTED WITH A MINIMUM OF 6 SAND BAGS TO PREVENT THEM FROM BEING BLOWN OVER.

IDOT TYPE 1 BARRICADE DETAIL

NOTE:
WHERE NOT SPECIFIED, THE CONTRACTOR SHALL HAVE THE OPTION AS TO WHICH TYPE OF BARRICADE IS USED.

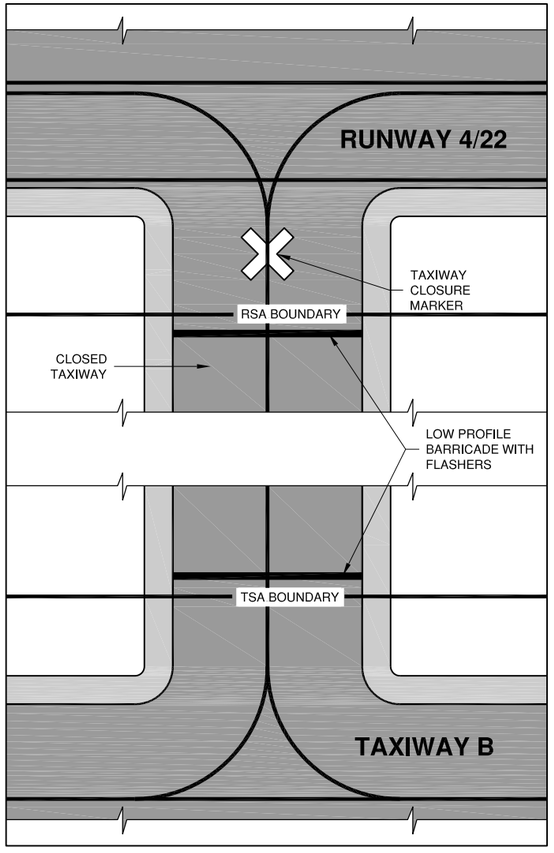


LIGHTED RUNWAY CLOSURE MARKER

N.T.S.

NOTES

1. TO BE PLACED ON PAVEMENT AT THE RUNWAY NUMERALS.
2. PAIR OF LIGHTED 'X'S TO BE PROVIDED BY THE AIRPORT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE (FUEL, OIL, LIGHT BULBS) WHEN USED DURING CONSTRUCTION CLOSURES.



CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-GI103.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

CONSTRUCTION ACTIVITY NOTES & DETAILS

GI103

SHEET 5 OF 72

GENERAL

1. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FOLLOW THE REQUIREMENTS OF THE AIRPORT'S APPROVED CONSTRUCTION SAFETY AND PHASING PLAN (CSPP), FAA AC 150/5370-2F, AND ALL AIRPORT SAFETY AND SECURITY REQUIREMENTS.

2. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE AIRPORT FOR APPROVAL A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) IN ACCORDANCE WITH FAA AC 150/5370-2F. NO CONSTRUCTION ACTIVITY SHALL BEGIN UNTIL THE AIRPORT HAS APPROVED THE SPCD.

3. THE CSPP COVERS OPERATIONAL SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INDIVIDUAL SAFETY OF HIS/HER PERSONNEL AND MEETING OSHA REQUIREMENTS.

4. A MINIMUM OF 10 DAYS PRIOR TO THE NOTICE TO PROCEED THE CONTRACTOR SHALL PROVIDE A LIST OF SUBCONTRACTORS AND MATERIAL SUPPLIERS.

5. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL SIGN THE SWPPP CERTIFICATION STATEMENT.

6. ALL CONTRACTOR COSTS ASSOCIATED WITH THE REQUIREMENTS LISTED ON THIS SHEET SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS A SPECIFIC PAY ITEM IS PROVIDED.

1. COORDINATION

1. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL ATTEND A PRECONSTRUCTION CONFERENCE WITH THE AIRPORT, ENGINEER, AND ILLINOIS DIVISION OF AERONAUTICS (IDA). THE COST OF PREPARING FOR AND ATTENDING THE PRECONSTRUCTION CONFERENCE SHALL BE INCIDENTAL TO THE CONTRACT.

2. ON OR BEFORE THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT A PROPOSED SCHEDULE FOR THE PROJECT. THE SCHEDULE SHALL INCLUDE A START AND COMPLETION DATE FOR EACH ITEM OF WORK. THE SCHEDULE SHALL BE UPDATED ON A WEEKLY BASIS. ALL COSTS ASSOCIATED WITH THE SCHEDULE SHALL BE INCIDENTAL TO THE CONTRACT.

3. DURING CONSTRUCTION THE CONTRACTOR SHALL ATTEND A WEEKLY COORDINATION MEETING WITH THE AIRPORT STAFF, LOCAL FAA ATO AND RESIDENT ENGINEER. ALL COSTS ASSOCIATED WITH ATTENDING THE WEEKLY MEETING SHALL BE INCIDENTAL TO THE CONTRACT.

4. THE CSPP AS WRITTEN HAS BEEN APPROVED BY THE AIRPORT AND THE FAA. PROPOSED CHANGES TO THE WORK LIMITS SHALL BE COORDINATED THROUGH THE FAA FOR AIRSPACE ANALYSIS AND WILL REQUIRE A MINIMUM OF 30 DAYS TO REVIEW.

2. PHASING

1. TOTAL CONTRACT TIME SHALL BE 101 CALENDAR DAYS.

2. PHASING SHALL BE AS NOTED BELOW AND AS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN (CAP) SHEET.

3. AREAS AND OPERATIONS AFFECTED BY THE CONSTRUCTION ACTIVITY

1. ALL RUNWAYS, TAXIWAYS AND APRONS SHALL BE KEPT OPEN TO AIRCRAFT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED ON THE PHASING PLAN.

2. WHEN CONFLICTS ARISE BETWEEN CONSTRUCTION ACTIVITIES AND AIRCRAFT OPERATIONS AND SAFETY, AIRCRAFT OPERATIONS AND SAFETY SHALL TAKE PRECEDENCE AND SHALL GOVERN. FINAL AUTHORITY IN THE APPROVAL OF CONSTRUCTION SEQUENCING LIES WITH THE AIRPORT.

3. ALL CONSTRUCTION TRAFFIC SHALL IMMEDIATELY YIELD TO ONCOMING AIRCRAFT AT ALL TIMES.

5. CONTRACTOR ACCESS

1. CONTRACTOR ACCESS SHALL BE AS NOTED BELOW AND AS SHOWN ON THE SITE PLAN AND CONSTRUCTION ACTIVITY PLAN SHEETS. ALL COSTS RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

2. THE CONTRACTOR IS TO ACCESS THE SITE USING THE GATES SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE ACCESS GATE(S) CLOSED DURING WORK HOURS. THE CONTRACTOR SHALL POST A COMPETENT SECURITY GUARD TO CONTROL ACCESS AT THE GATE. THE CONTRACTOR SHALL REPLACE ANY UNSATISFACTORY SECURITY GUARDS AS DIRECTED.

3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND TEMPORARY EASEMENTS FOR THE PUBLIC ACCESS ROAD(S) SHOWN AND SHALL COMPLY WITH ALL REQUIREMENTS, LOAD RESTRICTIONS, & TRAFFIC CONTROL SIGNAGE REQUIRED BY THE VILLAGE, UNIVERSITY, COUNTY, TOWNSHIP, OR I.D.O.T.

4. A MINIMUM OF THREE (3) CONTRACTOR EMPLOYEES SHALL OBTAIN AN AIRPORT IDENTIFICATION BADGE. THIS CONSISTS OF FILLING OUT ALL NECESSARY PAPERWORK, FINGERPRINTING, ATTENDING AND PASSING A TRAINING CLASS CONCERNING SAFETY AND SECURITY AT THE AIRPORT. CONTRACTOR EMPLOYEES MUST MEET CERTAIN BACKGROUND CHECK CRITERIA AND THE CONTRACTOR MUST MAKE CERTAIN CERTIFICATION ABOUT EACH EMPLOYEE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINGERPRINTING COSTS. ALL COSTS ASSOCIATED WITH OBTAINING THE IDENTIFICATION BADGE SHALL BE BORNE BY THE CONTRACTOR.

5. ALL CONTRACTOR EMPLOYEES WHO ARE DESIGNATED AS DRIVERS FOR THE CONTRACTOR WITHIN THE AIRFIELD OPERATIONS AREA (AOA) SHALL ALSO ATTEND AND PASS THE AIRPORT DRIVERS TRAINING PROGRAM. ONLY THOSE INDIVIDUALS WHO RECEIVE THIS DESIGNATION WILL BE PERMITTED TO OPERATE VEHICLES OR EQUIPMENT ON THE AIRPORT. ALL COSTS ASSOCIATED WITH THE DRIVER TRAINING PROGRAM SHALL BE BORNE BY THE CONTRACTOR.

6. CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL BE MARKED AND FLAGGED PER SECTION 70-10 OF THE STANDARD SPECIFICATIONS. MAXIMUM HEIGHT OF CONTRACTOR'S EQUIPMENT WILL BE 25'.

7. DRIVERS OF TRUCKS CONTAINING MATERIAL DELIVERIES (AGGREGATE, CONCRETE, ETC.) NEED NOT OBTAIN AN AIRPORT ID BADGE BUT SHALL BE REQUIRED TO SUBMIT THEIR NAME, DRIVER'S LICENSE NUMBER, TRUCK LICENSE PLATE NUMBER AND NAME OF TRUCKING COMPANY TO THE PRIME CONTRACTOR PRIOR TO ENTERING THE JOBSITE. WHILE INSIDE THE AOA, THE TRUCK DRIVERS SHALL BE ESCORTED BY THE CONTRACTOR PERSONNEL THAT HAS OBTAINED PROPER DRIVING PRIVELAGES.

8. CONTRACTOR WORK CREWS MUST MAINTAIN RADIO CONTACT WITH THE AIR TRAFFIC CONTROL TOWER (ATCT) AT ALL TIMES WHEN INSIDE THE AIRPORT OPERATIONS AREA (AOA). THE CONTRACTOR SHALL SUPPLY ALL APPROPRIATE RADIOS NEEDED FOR COMMUNICATIONS AND ONLY HIS PERSONNEL WHO HAVE SUCCESSFULLY COMPLETED THE APPROVED CMI/FAA SAFETY COURSE MAY OPERATE THESE RADIOS.

9. THE CONTRACTORS STORAGE AND STAGING AREA WILL BE AS SHOWN IN THE SITE PLAN

10. THE CONTRACTOR SHALL KEEP A RECORD OF THE NAMES OF ALL EMPLOYEES ENTERING THE JOB SITE ON A DAILY BASIS. A RECORD OF EACH SUBCONTRACTOR ENTERING THE JOB SITE SHALL ALSO BE KEPT BY THE CONTRACTOR.

11. WHEN THE CONTRACTOR IS NOT WORKING, EQUIPMENT SHALL BE STORED AT THE STAGING AREA.

12. DURING ADVERSE WEATHER THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE WORK AT NO ADDITIONAL COST TO THE CONTRACT. NO EXTENSION OF THE CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE WORK SITE.

13. THE CONTRACTOR WILL BE PERMITTED TO STORE EQUIPMENT AND MATERIALS ONLY AT THE LOCATIONS SHOWN. PARKED EQUIPMENT AND MATERIAL STOCKPILES SHALL NOT PENETRATE SURFACES DEFINED BY F.A.R. TITLE 14 PART 77 - OBJECTS AFFECTING NAVIGABLE AIRSPACE. EXISTING TURF AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND THE AIRPORT.

14. ALL CONSTRUCTION TRAFFIC OPERATING ON, OR CROSSING RUNWAYS, TAXIWAYS AND APRONS OPEN TO AIRCRAFT TRAFFIC SHALL BE UNDER CONTROL BY A FLAGMAN OR ESCORT IN RADIO CONTACT WITH THE ATCT. THE CONTRACTOR SHALL PROVIDE HIS OWN FLAGMEN.

15. THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL CONSTRUCTION AREAS AND HAUL ROUTES WHICH WILL BE OPENED TO AIR TRAFFIC TO THE SATISFACTION OF AIRPORT OPERATIONS OR THE RESIDENT ENGINEER. A POWER BROOM AND OPERATOR SHALL BE ON SITE AT ALL TIMES WHEN ACTIVE PAVEMENTS ARE UTILIZED FOR CONSTRUCTION TRAFFIC.

5. CONTRACTOR ACCESS (CONTINUED)

16. ALL PAVEMENTS, DRIVES OR ANY OTHER AREAS UTILIZED BY THE CONTRACTOR FOR HAUL ROADS OR STORAGE AREAS SHALL BE MAINTAINED AND REPAIRED TO THE SAME CONDITION OR BETTER THAN THEY WERE PRIOR TO BEGINNING CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR THIS WORK.

17. ALL VEHICLE AND EQUIPMENT OPERATORS USED BY THE CONTRACTOR SHALL BE PROPERLY TRAINED BY THE CONTRACTOR.

18. THE CONTRACTOR SHALL NOTIFY THE AIRCRAFT RESCUE AND FIRE FIGHTING (ARFF) FACILITY IF CONSTRUCTION ACTIVITY WILL REQUIRE THE BLOCKAGE OF EMERGENCY ACCESS TO THE AIRPORT.

6. WILDLIFE MANAGEMENT

1. THE CONTRACTOR SHALL NOTIFY PUBLIC SAFETY OR THE ENGINEER IF ANY WILDLIFE IS SEEN ENTERING THE AIRPORT.

2. CONTRACTOR ACCESS GATES SHALL REMAIN CLOSED WHEN THE CONTRACTOR IS NOT WORKING.

3. THE CONTRACTOR SHALL DISPOSE OF ALL TRASH INCLUDING FOOD SCRAPS IN APPROVED CONTRACTOR PROVIDED CONTAINERS.

4. THE CONTRACTOR SHALL MAINTAIN THE SITE TO LIMIT STANDING WATER AND TALL GRASS TO REDUCE THEIR ATTRACTANT TO WILDLIFE.

7. NOTIFICATION OF CONSTRUCTION ACTIVITIES

1. THE CONTRACTOR SHALL PROVIDE A 24 HOUR EMERGENCY CONTACT PERSON AND PHONE NUMBER.

2. THE CONTRACTOR SHALL GIVE A MINIMUM OF 72 HOURS NOTICE TO AIRPORT OPERATIONS/ARFF PRIOR TO CLOSING ANY PAVEMENTS SO THAT PROPER NOTAMS MAY BE ISSUED BY THE AIRPORT.

3. FOR ANY EQUIPMENT USED BY THE CONTRACTOR WITH A HEIGHT GREATER THAN 25', THE CONTRACTOR SHALL PROVIDE TO THE AIRPORT THE TYPE OF EQUIPMENT, TOTAL HEIGHT, AND LOCATION WHERE THE EQUIPMENT WILL BE USED. THE AIRPORT WILL SUBMIT FAA FORM 7460-1 TO THE FAA FOR AN AIRSPACE STUDY. NO EQUIPMENT WITH A HEIGHT GREATER THAN 40' SHALL BE USED UNTIL A DETERMINATION FROM FAA IS RECEIVED.

4. IN THE EVENT OF AN EMERGENCY, THE CONTRACTOR SHALL CALL 911.

5. CONTACTS FOR THIS PROJECT ARE AS LISTED BELOW.

   PUBLIC SAFETY
   CHIEF JOHN RIEGEL - PUBLIC SAFETY
   OFFICE (217) 244-8764
   CELL (217) 202-8213

   AIRPORT MAINTENANCE
   RON DECKARD - MAINTENANCE CONTACT
   OFFICE (217) 369-0099
   CELL (217) 714-4600

   ENGINEER
   CHRIS GROTH P.E. - PROJECT ENGINEER
   (217) 787-8050
   RESIDENT ENGINEER TO BE DETERMINED
   OFFICE (217) 787-8050

8. INSPECTION REQUIREMENTS

1. THE CONTRACTOR SHALL INSPECT THE JOBISTE DAILY TO ENSURE COMPLIANCE WITH THE CSPP. THE CHECKLIST FOUND IN APPENDIX 3 OF FAA AC 150/5370-2F MAY BE USED TO AID IN THE INSPECTIONS.

2. THE CONTRACTOR SHALL REQUEST OPERATIONAL INSPECTION OF EACH PHASE WORK AREA PRIOR THE AREA BEING REOPENED. PUBLIC SAFETY WILL DETERMINE IF THE WORK AREA IS ALLOWED TO BE OPENED.

9. UNDERGROUND UTILITIES

1. IT WILL BE NECESSARY FOR THE CONTRACTOR TO MAKE HIS OWN FIELD INVESTIGATION TO DETERMINE THE EXACT LOCATION OF THE UNDERGROUND UTILITIES AT CRITICAL POINTS. THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY IN RESPECT TO THE ACCURACY, COMPLETENESS OR SUFFICIENCY OF THE INFORMATION. ANY UTILITY, INCLUDING AIRFIELD ELECTRICAL CABLE AND LIGHTS, DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY HIM AT HIS OWN EXPENSE IN A MANNER WHICH IS SATISFACTORY TO THE ENGINEER AND TO THE OWNER OF THE UTILITY. ANY REPAIRS THAT MUST BE MADE BY THE OWNER OF THE UTILITY SHALL HAVE THE COST REIMBURSED TO THE UTILITY BY THE CONTRACTOR. AIRFIELD LIGHTING CABLES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY A QUALIFIED ELECTRICIAN WITH THE COSTS TO BE BORNE BY THE CONTRACTOR.

2. BEFORE INITIATING ANY DIGGING, DRILLING OR EXCAVATING ON THE AIRPORT PROPERTY, THE CONTRACTOR SHALL CALL J.U.L.I.E. AND CONTACT THE LOCAL FAA OFFICE TO ARRANGE FOR UTILITY LOCATES. SEE SECTION 50-17 OF THE SPECIAL PROVISIONS FOR UTILITY CONTACT INFORMATION.

10. PENALTIES

1. NONCOMPLIANCE BY THE CONTRACTOR WITH AIRPORT RULES AND REGULATIONS OR FAILURE TO COMPLY WITH THE AIRPORT'S APPROVED CSPP AND THE CONTRACTOR'S APPROVED SPCD MAY RESULT IN FINES AS ALLOWED BY LAW.

11. SPECIAL CONDITIONS

1. ADJACENT CONSTRUCTION MAY IMPACT THE OPERATIONS OF THE CONTRACTOR. SEE THE COORDINATION NOTES FOR ADDITIONAL INFORMATION.

12. RUNWAY AND TAXIWAY VISUAL AIDS

1. ALL RUNWAYS, TAXIWAYS, AND APRONS SHALL BE KEPT OPEN TO AIRPORT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED IN THE CONSTRUCTION ACTIVITY PLAN.

2. IF ANY RUNWAY OR TAXIWAY CLOSURES ARE REQUESTED BY THE CONTRACTOR AND APPROVED BY THE AIRPORT, THE CONTRACTOR SHALL USE MARKING, LIGHTING AND SIGNS THAT FOLLOWING THE REQUIREMENTS OF FAA AC 150/5370-2F.

13. MARKING AND SIGNS FOR ACCESS ROUTES

1. BARRICADES AND SIGNS SHALL BE USED ALONG THE CONTRACTOR'S ACCESS ROUTE AS DETAILED ON THIS SHEET AND THE CONSTRUCTION ACTIVITY PLAN SHEET.

14. HAZARD MARKING AND LIGHTING

1. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN MARKINGS AND ASSOCIATED LIGHTING OF OPEN TRENCHES, EXCAVATIONS, TEMPORARY STOCKPILES, AND HIS/HER CONSTRUCTION EQUIPMENT.

2. ALL CONSTRUCTION EQUIPMENT SHALL BE FLAGGED AND/OR LIGHTED IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 150/5370-2F AND 150/5210-5C AT ALL TIMES WHILE OPERATING ON AIRPORT PROPERTY. THE MAXIMUM EQUIPMENT HEIGHT IS 25'.

3. BARRICADES SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN SHEET OR AS DIRECTED BY THE ENGINEER.

4. THE CONTRACTOR SHALL INSPECT THE BARRICADES ONCE DURING EACH WORK DAY TO INSURE PROPER PLACEMENT AND PROPER OPERATION OF THE RED LIGHTS AND FLAG PLACEMENT.

5. THE AIRPORT WILL PROVIDE TWO PORTABLE CLOSED RUNWAY MARKERS FOR USE DURING THE PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF THE RUNWAY CLOSURE MARKERS INCLUDING FUEL, OIL CHANGES AND REPLACEMENT OF THE LIGHTS. UPON COMPLETION OF THE PROJECT, THE PORTABLE CLOSED RUNWAY MARKERS SHALL BE TURNED OVER TO THE AIRPORT.

15. PROTECTION

1. ALL WORK REQUIRED INSIDE OF THE RUNWAY 4-22 OR 14L/32R SAFETY AREAS, WHICH EXTENDS 250' FROM THE RUNWAY CENTERLINE, WILL REQUIRE THE RUNWAY TO BE CLOSED. THE CONTRACTOR SHALL COORDINATE WITH THE AIRPORT A MINIMUM OF 72 HOURS PRIOR TO THE REQUESTED CLOSURE TIME.

2. ALL WORK REQUIRED ON AN ACTIVE TAXIWAY OR INSIDE OF AN ACTIVE TAXIWAY OBJECT FREE AREA, WHICH EXTENDS 93' FROM THE TAXIWAY CENTERLINE OF 50' TAXIWAYS AND 130' FROM THE CENTERLINE OF 75' TAXIWAYS, WILL REQUIRE THE TAXIWAY TO BE CLOSED. THE CONTRACTOR SHALL COORDINATE WITH THE AIRPORT A MINIMUM OF 72 HOURS PRIOR TO THE REQUESTED CLOSURE TIME.

3. ALL WORK REQUIRED ON AN ACTIVE APRON OR INSIDE OF AN ACTIVE SAFETY AREA, WHICH EXTENDS 70' FROM THE APRON'S EDGE OF PAVEMENT, WILL REQUIRE A PORTION OF THAT APRON TO BE CLOSED. THE CONTRACTOR SHALL COORDINATE WITH THE AIRPORT A MINIMUM OF 72 HOURS PRIOR TO THE REQUESTED CLOSURE TIME.

16. OTHER LIMITATIONS ON CONSTRUCTION

1. IF, DURING CONSTRUCTION, AN EMERGENCY IS DECLARED BY THE AIRPORT, THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE PAVEMENT OF ALL VEHICLES, PERSONNEL AND EQUIPMENT.

2. BROKEN CONCRETE, BROKEN ASPHALT, RUBBISH FROM DEMO, AND OTHER MISCELLANEOUS DEBRIS SHALL BE DISPOSED OF OFF AIRPORT PROPERTY, UNLESS OTHERWISE SPECIFIED.

3. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING THE AIRSPACE FOR THE CONSTRUCTION EQUIPMENT THAT IS TALLER THAN THAT SPECIFIED ON THE PLANS WITH THE FAA. THIS PROCESS MAY TAKE UP TO 12 WEEKS TO COMPLETE.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEGGAR TESTING ALL EXISTING CIRCUITS PRIOR TO CONSTRUCTION AND FOLLOWING CONSTRUCTION AS SPECIFIED IN THE CONTRACT DOCUMENTS.

CMT
License No. 184-000613
CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER
FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-GC001.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

SAFETY PHASING NOTES & DETAILS

GC001

SHEET 6 OF 72

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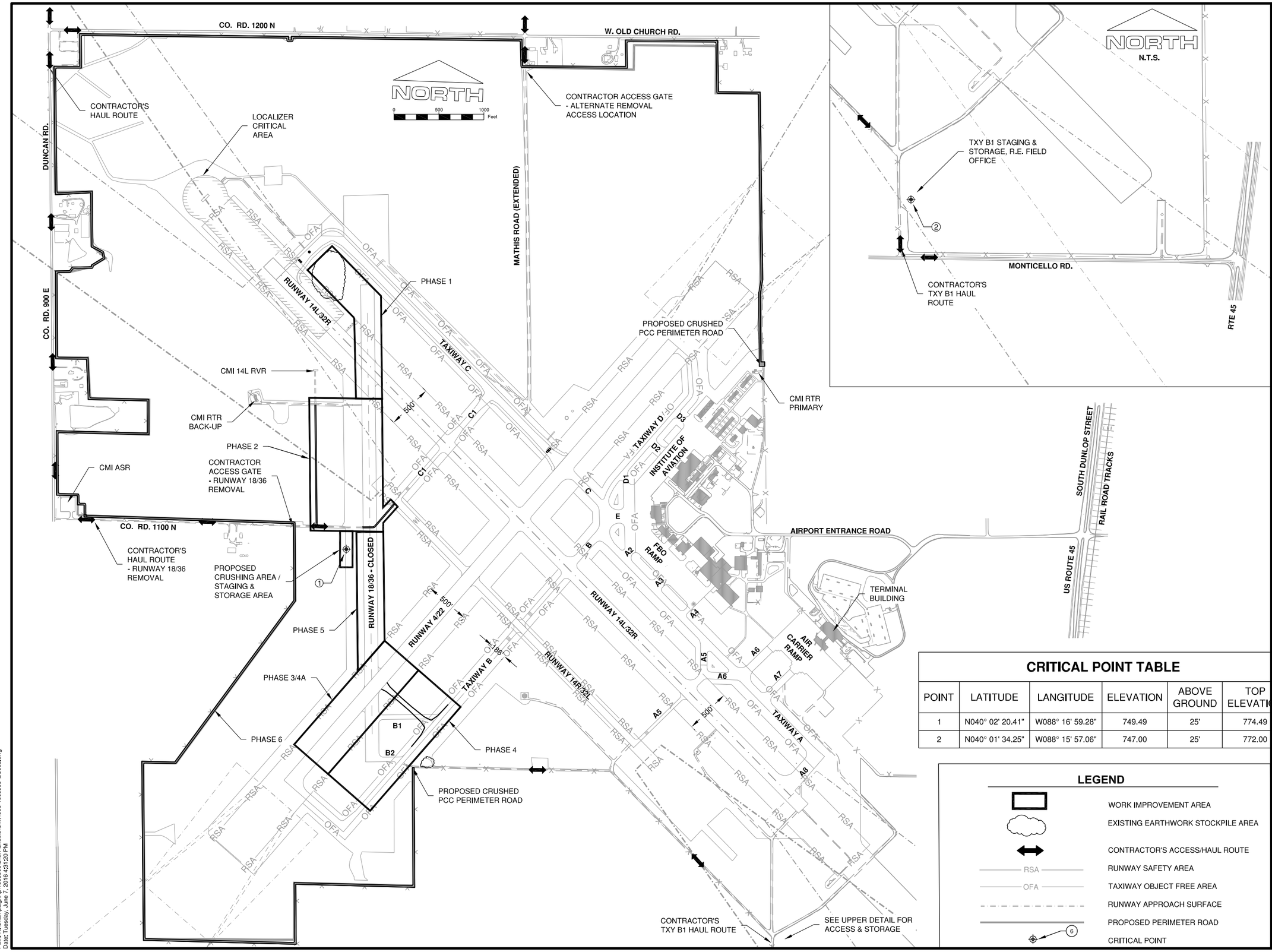

CRITICAL POINT TABLE

POINT	LATITUDE	LANGITUDE	ELEVATION	ABOVE GROUND	TOP ELEVATION
1	N040° 02' 20.41"	W088° 16' 59.28"	749.49	25'	774.49
2	N040° 01' 34.25"	W088° 15' 57.06"	747.00	25'	772.00

LEGEND

- WORK IMPROVEMENT AREA
- EXISTING EARTHWORK STOCKPILE AREA
- CONTRACTOR'S ACCESS/HAUL ROUTE
- RSA — RUNWAY SAFETY AREA
- OFA — TAXIWAY OBJECT FREE AREA
- RUNWAY APPROACH SURFACE
- PROPOSED PERIMETER ROAD
- 6 — CRITICAL POINT

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WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO.	3-17-0006-XX
IL. PROJ. NO.	CMI-4503 CONTRACT NO. UN056
CMT PROJECT NO:	15059-03-00
CAD DWG FILE:	CMI4503-1505903-GC002.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

CONSTRUCTION ACTIVITY SITE PLAN INDEX

GC002

SHEET 7 OF 72

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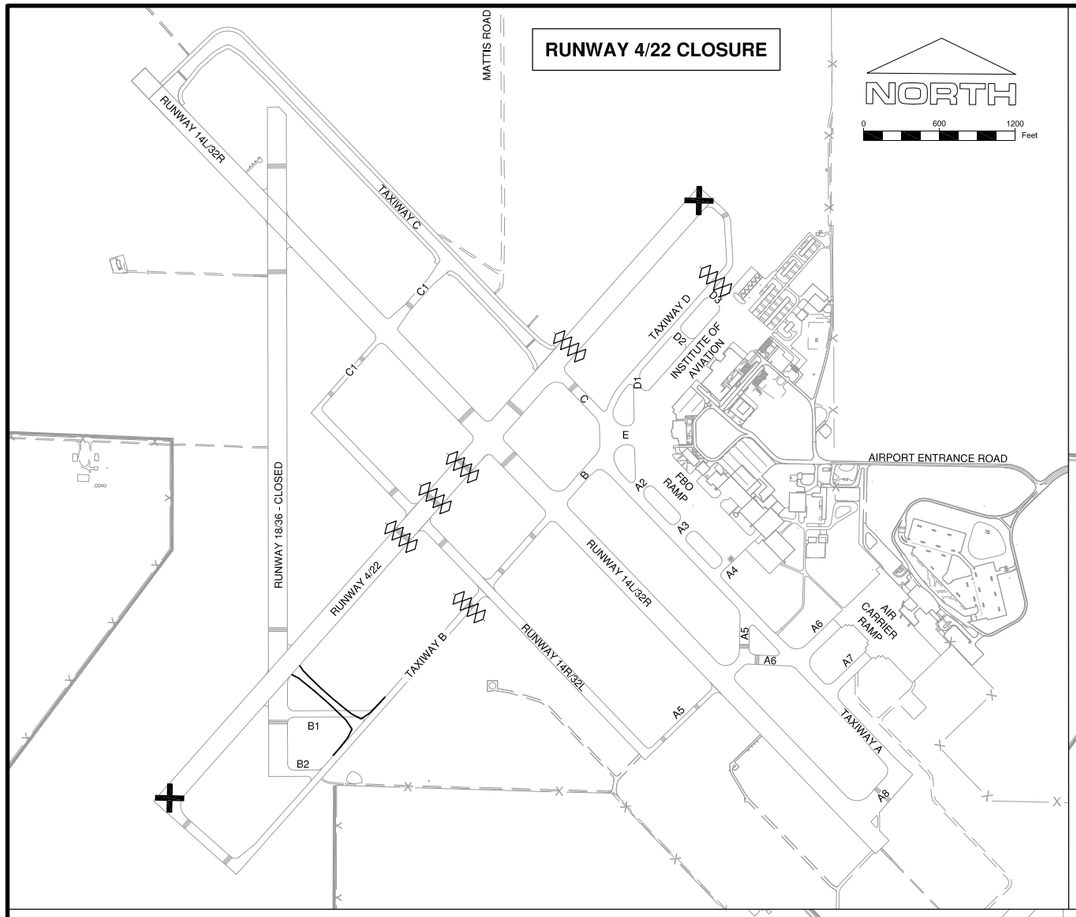
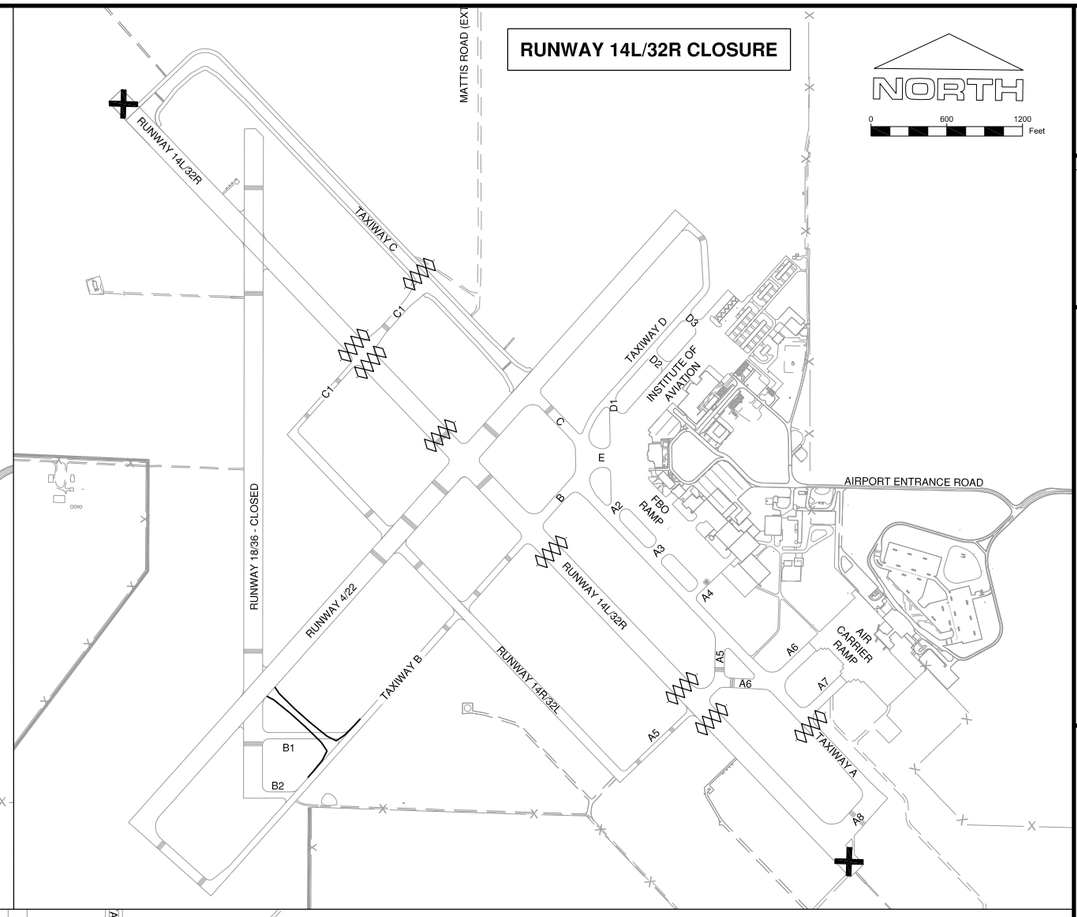
Date: Tuesday, June 7, 2016 4:31:20 PM

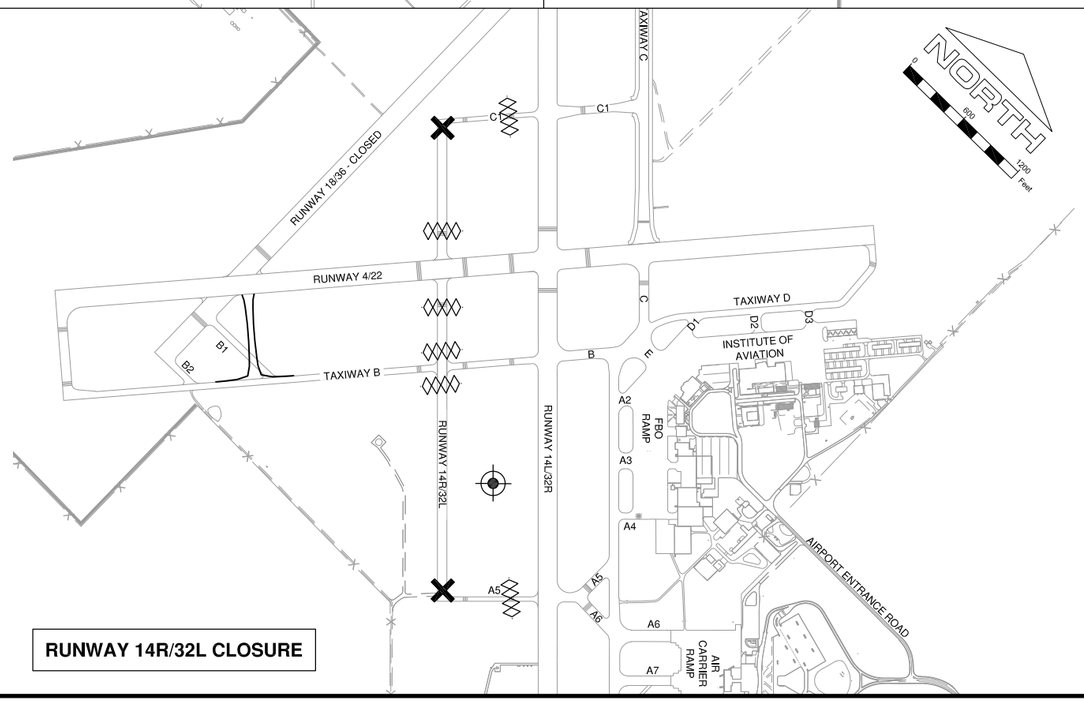
RUNWAY 4/22 CLOSURE



RUNWAY 14L/32R CLOSURE



RUNWAY 14R/32L CLOSURE



LEGEND

- BARRICADES
- PORTABLE CLOSED RUNWAY MARKER - SEE CONSTRUCTION ACTIVITY NOTES & DETAILS
- 6 CRITICAL POINT

CMT

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OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
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MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO:	15059-03-00
CAD DWG FILE:	CMI4503-1505903-GC003.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

CLOSED RUNWAY BARRICADE PLAN

GC003

SHEET 8 OF 72

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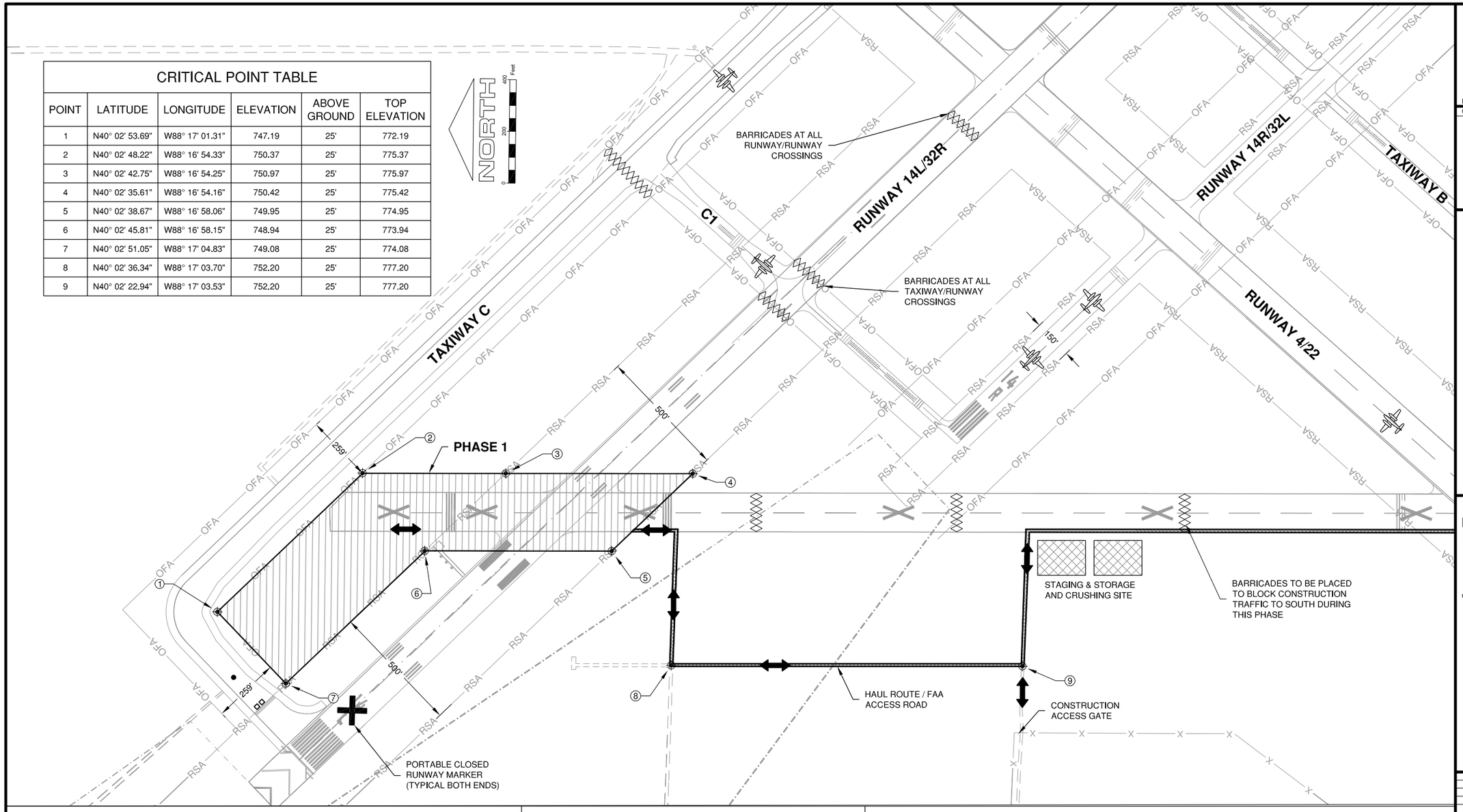
Date: Tuesday, June 7, 2016 4:31:39 PM

CRITICAL POINT TABLE					
POINT	LATITUDE	LONGITUDE	ELEVATION	ABOVE GROUND	TOP ELEVATION
1	N40° 02' 53.69"	W88° 17' 01.31"	747.19	25'	772.19
2	N40° 02' 48.22"	W88° 16' 54.33"	750.37	25'	775.37
3	N40° 02' 42.75"	W88° 16' 54.25"	750.97	25'	775.97
4	N40° 02' 35.61"	W88° 16' 54.16"	750.42	25'	775.42
5	N40° 02' 38.67"	W88° 16' 58.06"	749.95	25'	774.95
6	N40° 02' 45.81"	W88° 16' 58.15"	748.94	25'	773.94
7	N40° 02' 51.05"	W88° 17' 04.83"	749.08	25'	774.08
8	N40° 02' 36.34"	W88° 17' 03.70"	752.20	25'	777.20
9	N40° 02' 22.94"	W88° 17' 03.53"	752.20	25'	777.20



LEGEND

- PHASE LIMITS
- CONTRACTOR'S ACCESS/HAUL ROUTE
- AIRCRAFT ACCESS
- PORTABLE CLOSED RUNWAY MARKER - SEE ACTIVITY NOTES
- BARRICADES
- RSA — RUNWAY SAFETY AREA
- OFA — TAXIWAY OBJECT FREE AREA
- RUNWAY APPROACH SURFACE
- 6 — CRITICAL POINT

PHASE 1

RUNWAY 14L-32R	CLOSED	TAXIWAY C1 TO TAXIWAY D
RUNWAY 4-22	OPEN	
RUNWAY 18-36	CLOSED	
TAXIWAY C	OPEN	
TAXIWAY C1	OPEN	
RUNWAY 14R-32L	OPEN	

PHASE 1 NOTES

1. NO STOCKPILES OR EQUIPMENT MAY REMAIN IN RUNWAY 14R OFA WHEN NOT WORKING.
2. WORK IN THIS PHASE WILL OCCUR INSIDE THE RUNWAY 14L/32R RSA. WORK ITEMS WITHIN THIS PHASE SHALL BE COMPLETED WITHIN 18 CONSECUTIVE CALENDAR DAYS.
3. WORK IN THIS PHASE WILL OCCUR OUTSIDE OF THE TAXIWAY C OFA.
4. WORK ITEMS TO BE COMPLETED DURING THIS PHASE SHALL INCLUDE: PAVEMENT REMOVALS, EARTH EXCAVATION, BACKFILL, LIGHT/SIGN BASE REMOVALS, MARKING REMOVALS, INFIELD GRADING, SEED & MULCH, PAVEMENT MARKING, AND LIGHTING & CABLING.
5. CONTRACTOR MUST PROVIDE THE MEANS NECESSARY TO KEEP THE SAFETY AREAS FREE OF FOD.
6. ALL BARRICADES AND CONSTRUCTION STAKES FOR THIS PHASE SHALL BE REMOVED UPON COMPLETION OF THIS PHASE. BARRICADES OUTLINING THE APPROACH OF RUNWAY 14R SHALL REMAIN UNTIL THE END OF PROJECT.
7. SEE CLOSED RUNWAY BARRICADE PLAN FOR LOCATIONS OF BARRICADES DURING THIS PHASE.
8. NO OTHER RUNWAY CLOSURES WILL BE ALLOWED DURING THIS PHASE.

CMT
License No. 184-000613
CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-GC101.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

CONSTRUCTION ACTIVITY PLAN - PHASE 1

GC101

SHEET 9 OF 72

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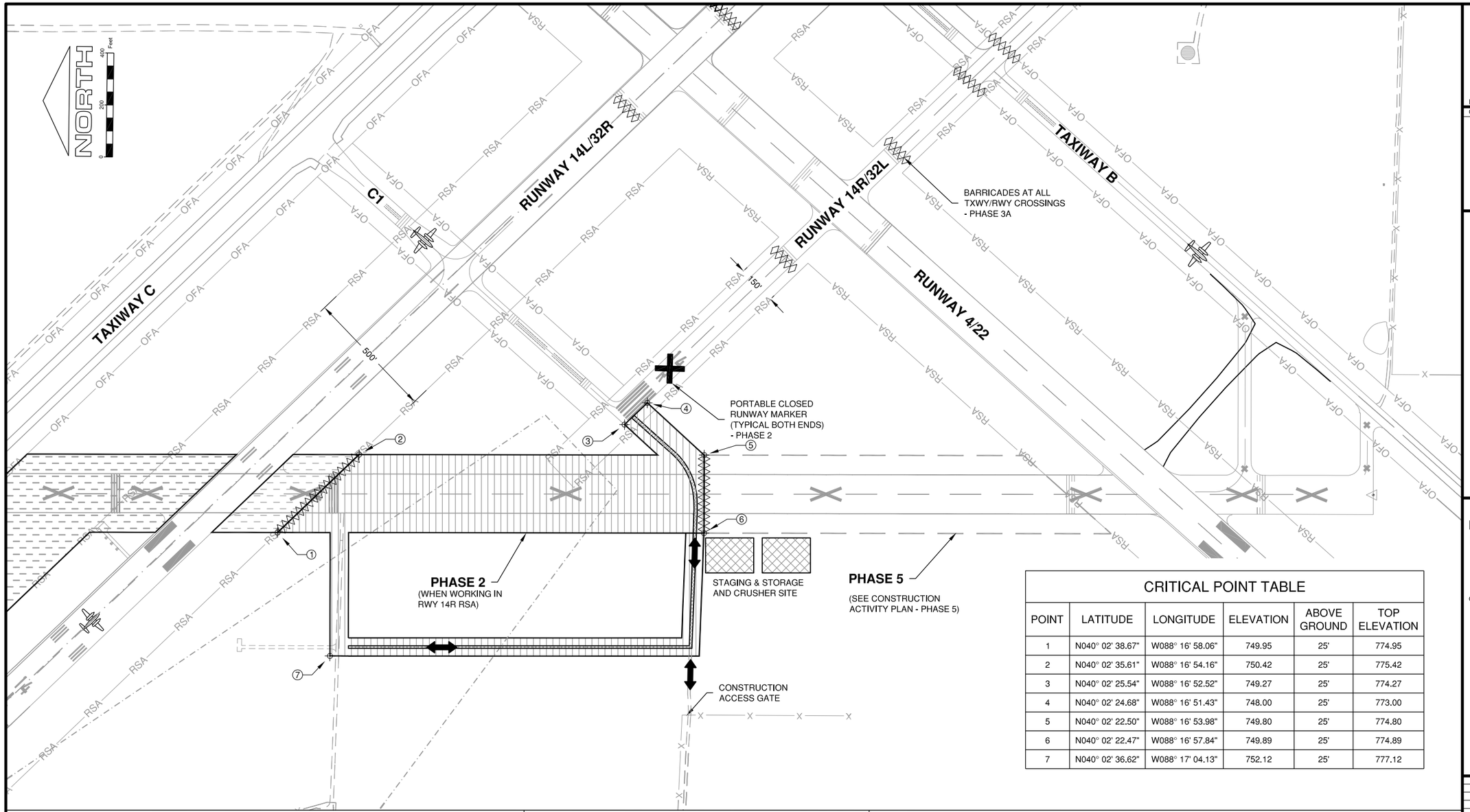

CRITICAL POINT TABLE

POINT	LATITUDE	LONGITUDE	ELEVATION	ABOVE GROUND	TOP ELEVATION
1	N040° 02' 38.67"	W088° 16' 58.06"	749.95	25'	774.95
2	N040° 02' 35.61"	W088° 16' 54.16"	750.42	25'	775.42
3	N040° 02' 25.54"	W088° 16' 52.52"	749.27	25'	774.27
4	N040° 02' 24.68"	W088° 16' 51.43"	748.00	25'	773.00
5	N040° 02' 22.50"	W088° 16' 53.98"	749.80	25'	774.80
6	N040° 02' 22.47"	W088° 16' 57.84"	749.89	25'	774.89
7	N040° 02' 36.62"	W088° 17' 04.13"	752.12	25'	777.12

LEGEND

- PHASE LIMITS
- COMPLETED WORK PHASE
- CONTRACTOR'S ACCESS/HAUL ROUTE
- AIRCRAFT ACCESS
- PORTABLE CLOSED RUNWAY MARKER - SEE ACTIVITY NOTES
- BARRICADES
- RSA — RUNWAY SAFETY AREA
- OFA — TAXIWAY OBJECT FREE AREA
- RUNWAY APPROACH SURFACE
- 6 — CRITICAL POINT

PHASE 2

RUNWAY 14L-32R	OPEN	
RUNWAY 4-22	OPEN	
RUNWAY 14R-32L	CLOSED	

PHASE 2 NOTES

1. WORK IN THIS PHASE WILL OCCUR OUTSIDE OF THE 14L/32R RSA & 4/22 RSA.
2. WORK ITEMS TO BE COMPLETED DURING THIS PHASE SHALL INCLUDE: PAVEMENT REMOVALS, EARTH EXCAVATION, BACKFILL, LIGHT/SIGN BASE REMOVALS, MARKING REMOVALS, SAFETY AREA GRADING, AND SEED & MULCH.
3. CONTRACTOR SHALL MONITOR ATCT GROUND FREQUENCY 121.8.
4. CONTRACTORS MUST PROVIDE THE MEANS NECESSARY TO KEEP THE SAFETY AREAS FREE OF FOD.
5. ALL BARRICADES AND CONSTRUCTION STAGES FOR THIS PHASE SHALL BE REMOVED UPON COMPLETION OF THIS PHASE.
6. SEE CLOSED RUNWAY BARRICADE PLAN FOR LOCATIONS OF BARRICADES DURING THIS PHASE.
7. NO OTHER RUNWAY CLOSURES WILL BE ALLOWED DURING THIS PHASE.

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX

IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056

CMT PROJECT NO: 15059-03-00

CAD DWG FILE: CMI4503-1505903-GC102.DWG

DESIGNED BY: CBG

DRAWN BY: DPA

CHECKED BY: JEF

APPROVED BY: CBG

SHEET TITLE

CONSTRUCTION ACTIVITY PLAN - PHASE 2

GC102

SHEET 10 OF 72

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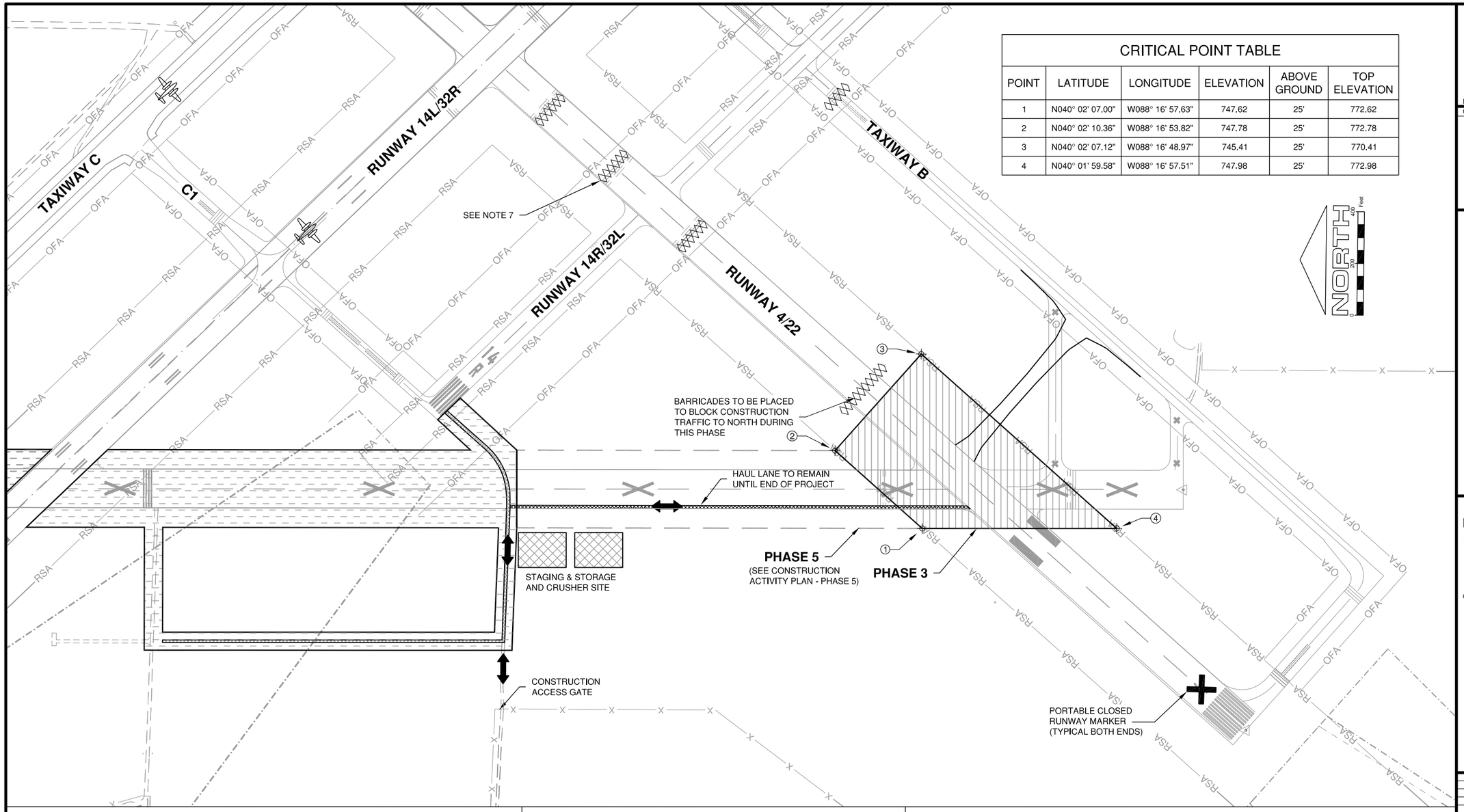

CRITICAL POINT TABLE

POINT	LATITUDE	LONGITUDE	ELEVATION	ABOVE GROUND	TOP ELEVATION
1	N040° 02' 07.00"	W088° 16' 57.63"	747.62	25'	772.62
2	N040° 02' 10.36"	W088° 16' 53.82"	747.78	25'	772.78
3	N040° 02' 07.12"	W088° 16' 48.97"	745.41	25'	770.41
4	N040° 01' 59.58"	W088° 16' 57.51"	747.98	25'	772.98

LEGEND

- PHASE LIMITS
- COMPLETED WORK PHASE
- CONTRACTOR'S ACCESS/HAUL ROUTE
- AIRCRAFT ACCESS
- PORTABLE CLOSED RUNWAY MARKER - SEE ACTIVITY NOTES
- BARRICADES
- RSA — RUNWAY SAFETY AREA
- OFA — TAXIWAY OBJECT FREE AREA
- RUNWAY APPROACH SURFACE
- 6 — CRITICAL POINT

PHASE 3

RUNWAY 14L-32R	OPEN	
RUNWAY 4-22	CLOSED	
RUNWAY 14R-32L	OPEN	
TAXIWAY B1	CLOSED	SOUTH
TAXIWAY B	CLOSED	SOUTHEAST OF 14R/32L

PHASE 3 NOTES

1. WORK IN THIS PHASE WILL OCCUR INSIDE OF THE RUNWAY 4/22 RSA.
2. WORK IN THIS PHASE WILL OCCUR INSIDE THE RUNWAY 4/22 RSA. WORK ITEMS WITHIN THIS PHASE SHALL BE COMPLETED WITHIN 18 CONSECUTIVE CALENDAR DAYS.
3. WORK ITEMS TO BE COMPLETED DURING THIS PHASE SHALL INCLUDE: PAVEMENT REMOVALS, EARTH EXCAVATION, BACKFILL, LIGHT/SIGN BASE REMOVALS, MARKING REMOVALS, SAFETY AREA GRADING, SEED & MULCH, RUNWAY LIGHTING, SIGNAGE, AND CABLING.
4. CONSTRUCTION VEHICLES WILL CROSS CLOSED RUNWAY 4/22 .
5. FLAGGERS WILL MONITOR ATCT GROUND FREQUENCY 121.8.
6. CONTRACTORS MUST PROVIDE THE MEANS NECESSARY TO KEEP THE SAFETY AREAS FREE OF FOD.
7. ALL BARRICADES AND CONSTRUCTION STAGES FOR THIS PHASE SHALL BE REMOVED UPON COMPLETION OF THIS PHASE.
8. SEE CLOSED RUNWAY BARRICADE PLAN FOR LOCATIONS OF BARRICADES DURING THIS PHASE.
9. NO OTHER RUNWAY CLOSURES WILL BE ALLOWED DURING THIS PHASE.

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO:	15059-03-00
CAD DWG FILE:	CMI4503-1505903-GC103.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

CONSTRUCTION ACTIVITY PLAN - PHASE 3

GC103

SHEET 11 OF 72

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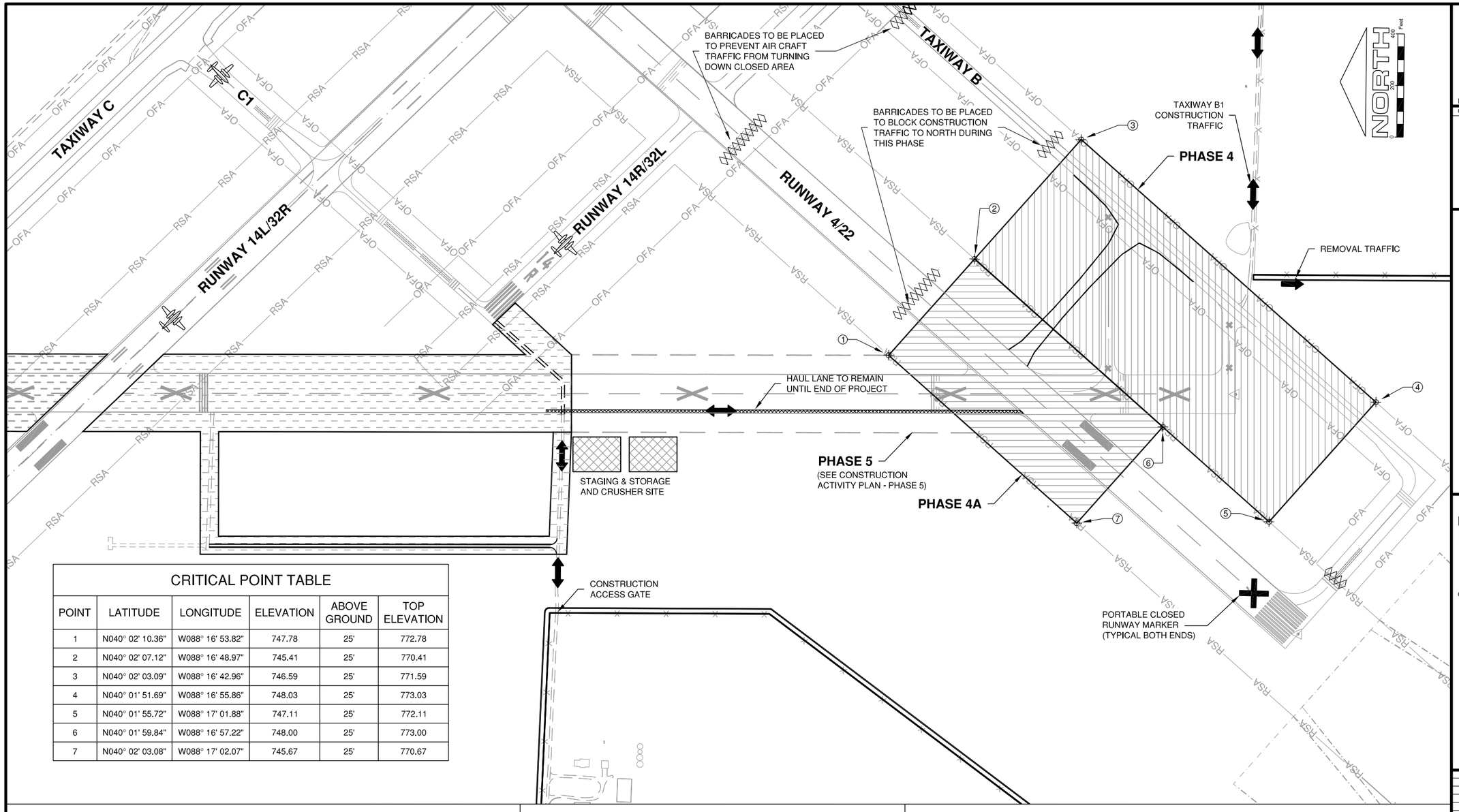

CRITICAL POINT TABLE					
POINT	LATITUDE	LONGITUDE	ELEVATION	ABOVE GROUND	TOP ELEVATION
1	N040° 02' 10.36"	W088° 16' 53.82"	747.78	25'	772.78
2	N040° 02' 07.12"	W088° 16' 48.97"	745.41	25'	770.41
3	N040° 02' 03.09"	W088° 16' 42.96"	746.59	25'	771.59
4	N040° 01' 51.69"	W088° 16' 55.86"	748.03	25'	773.03
5	N040° 01' 55.72"	W088° 17' 01.88"	747.11	25'	772.11
6	N040° 01' 59.84"	W088° 16' 57.22"	748.00	25'	773.00
7	N040° 02' 03.08"	W088° 17' 02.07"	745.67	25'	770.67

LEGEND

- PHASE LIMITS
- COMPLETED WORK PHASE
- CONTRACTOR'S ACCESS/HAUL ROUTE
- AIRCRAFT ACCESS
- PORTABLE CLOSED RUNWAY MARKER - SEE ACTIVITY NOTES
- BARRICADES
- RSA — RUNWAY SAFETY AREA
- OFA — TAXIWAY OBJECT FREE AREA
- RUNWAY APPROACH SURFACE
- CRITICAL POINT (6)

PHASE 4

RUNWAY 14L-32R	OPEN	
RUNWAY 4-22	OPEN	PHASE 4A CLOSED
RUNWAY 14R-32L	OPEN	
TAXIWAY B	CLOSED	SOUTH OF 14R/32L

PHASE 4 NOTES

1. WORK IN THIS PHASE WILL OCCUR OUTSIDE OF THE RUNWAY 4/22 RSA.
2. WORK ITEMS TO BE COMPLETED DURING THIS PHASE SHALL INCLUDE: PAVEMENT REMOVALS, EARTH EXCAVATION, BACKFILL, LIGHT/SIGN BASE REMOVALS, MARKING REMOVALS, SAFETY AREA GRADING, SEED & MULCH, TAXIWAY LIGHTING, SIGNAGE, AND CABLING.
3. CONTRACTOR MUST PROVIDE A FLAGGER ON THE NORTH AND SOUTH SIDES OF THE RWY 4 RSA.
4. FLAGGERS WILL MONITOR ATCT GROUND FREQUENCY 121.8.
5. CONTRACTORS MUST PROVIDE THE MEANS NECESSARY TO KEEP THE SAFETY AREAS FREE OF FOD.
6. ALL BARRICADES AND CONSTRUCTION STAGES FOR THIS PHASE SHALL BE REMOVED UPON COMPLETION OF THIS PHASE.
7. SEE CLOSED RUNWAY BARRICADE PLAN FOR LOCATIONS OF BARRICADES DURING THIS PHASE.

PHASE 4A NOTES

1. WORK IN THIS PHASE SHALL CONSIST OF CONSTRUCTION RELATED TO TAXIWAY B1 CONSTRUCTION WITHIN THE RUNWAY 4/22 RSA.
2. WORK IN THIS PHASE WILL OCCUR INSIDE THE RUNWAY 4/22 RSA. WORK WITHIN THIS PHASE SHALL BE COMPLETED WITHIN 14 CONSECUTIVE CALENDAR DAYS.
3. NO OTHER RUNWAY CLOSURES WILL BE ALLOWED DURING THIS PHASE.

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO:	15059-03-00
CAD DWG FILE:	CMI4503-1505903-GC104.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

CONSTRUCTION ACTIVITY PLAN - PHASE 4

GC104

SHEET 12 OF 72

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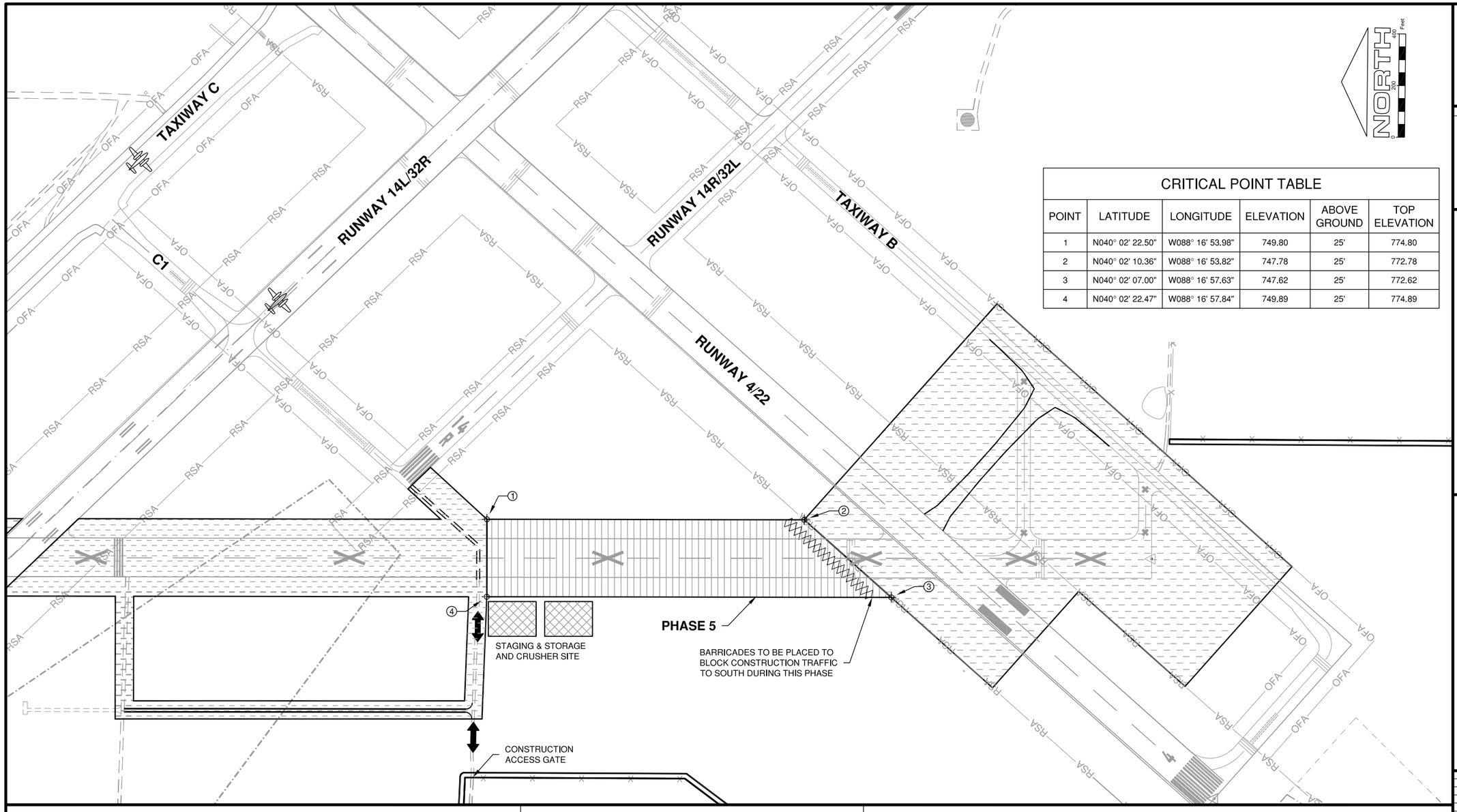

CRITICAL POINT TABLE					
POINT	LATITUDE	LONGITUDE	ELEVATION	ABOVE GROUND	TOP ELEVATION
1	N040° 02' 22.50"	W088° 16' 53.98"	749.80	25'	774.80
2	N040° 02' 10.36"	W088° 16' 53.82"	747.78	25'	772.78
3	N040° 02' 07.00"	W088° 16' 57.63"	747.62	25'	772.62
4	N040° 02' 22.47"	W088° 16' 57.84"	749.89	25'	774.89

LEGEND

- PHASE LIMITS
- COMPLETED WORK PHASE
- CONTRACTOR'S ACCESS/HAUL ROUTE
- AIRCRAFT ACCESS
- PORTABLE CLOSED RUNWAY MARKER - SEE ACTIVITY NOTES
- BARRICADES
- RSA — RUNWAY SAFETY AREA
- OFA — TAXIWAY OBJECT FREE AREA
- RUNWAY APPROACH SURFACE
- 6 — CRITICAL POINT

PHASE 5

RUNWAY 14L-32R	OPEN	
RUNWAY 4-22	OPEN	
RUNWAY 14R-32L	OPEN	
TAXIWAY B1	OPEN	

PHASE 5 NOTES

1. WORK IN THIS PHASE WILL OCCUR OUTSIDE OF THE RUNWAY 4/22 RSA.
2. WORK ITEMS TO BE COMPLETED DURING THIS PHASE SHALL INCLUDE: PAVEMENT REMOVALS, EARTH EXCAVATION, BACKFILL, LIGHT/SIGN BASE REMOVALS, MARKING REMOVALS, SAFETY AREA GRADING, SEED & MULCH, AND CABLE REMOVALS.
3. FLAGGERS WILL MONITOR ATCT GROUND FREQUENCY 121.8.
4. CONTRACTORS MUST PROVIDE THE MEANS NECESSARY TO KEEP THE SAFETY AREAS FREE OF FOD.
5. ALL BARRICADES AND CONSTRUCTION STAGES FOR THIS PHASE SHALL BE REMOVED UPON COMPLETION OF THIS PHASE.

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX
IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00
CAD DWG FILE: CMI4503-1505903-GC105.DWG
DESIGNED BY: CBG
DRAWN BY: DPA
CHECKED BY: JEF
APPROVED BY: CBG

SHEET TITLE

CONSTRUCTION ACTIVITY PLAN - PHASE 5

GC105

SHEET 13 OF 72

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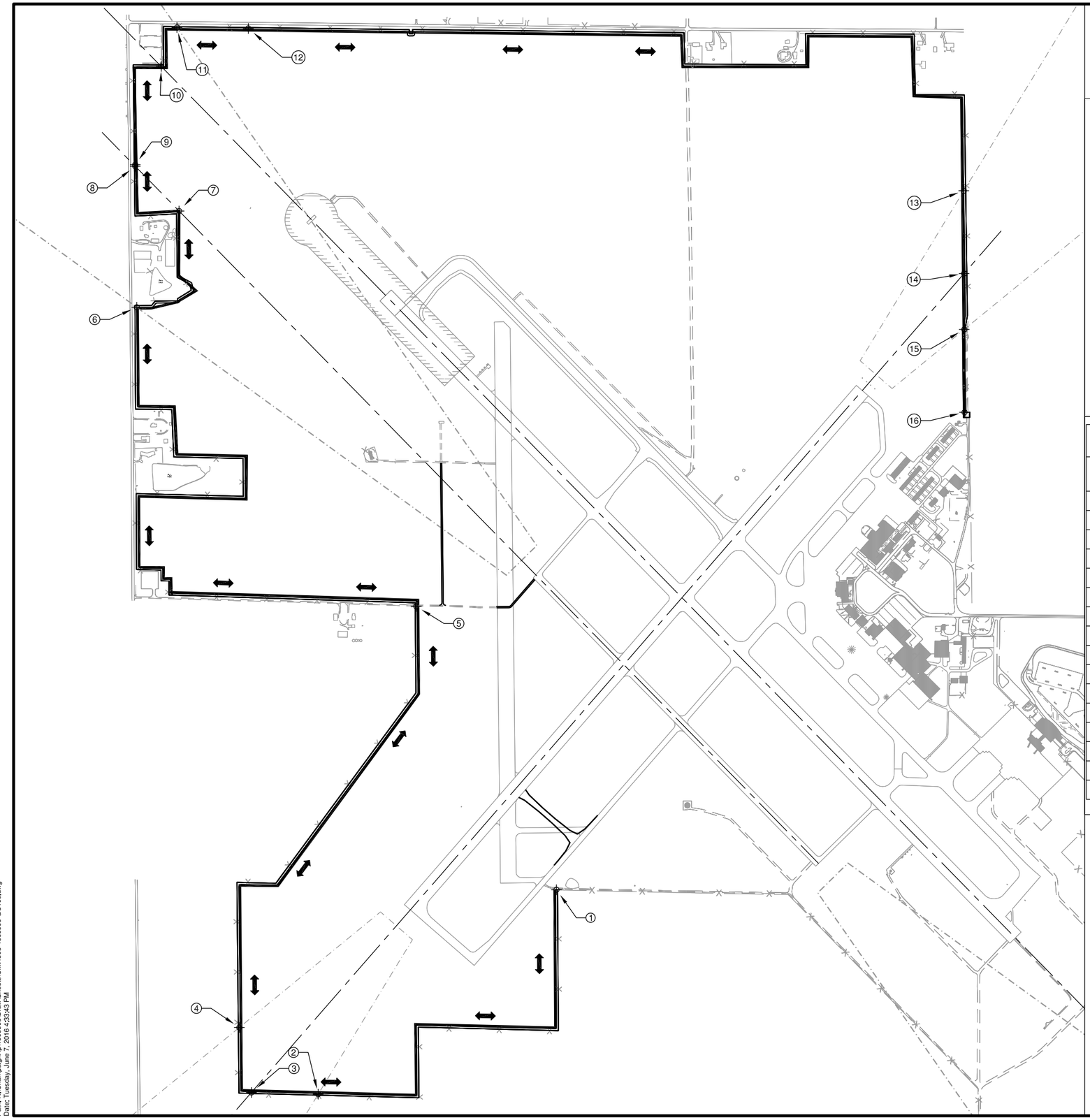

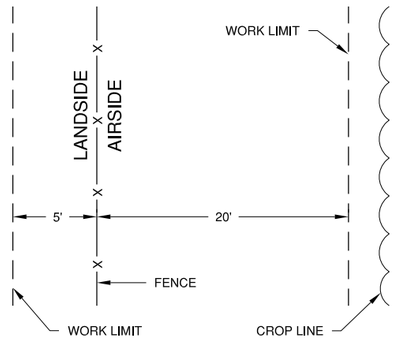

TYPICAL WORK LIMITS
N.T.S.

CRITICAL POINT TABLE

POINT	LATITUDE	LONGITUDE	ELEVATION	ABOVE GROUND	TOP ELEVATION
1	N040° 01' 56.43"	W088° 16' 49.72"	748.42	25'	773.42
2	N040° 01' 37.37"	W088° 17' 18.66"	740.14	25'	765.14
3	N040° 01' 37.53"	W088° 17' 26.77"	733.09	25'	758.09
4	N040° 01' 43.59"	W088° 17' 28.23"	735.39	25'	760.39
5	N040° 02' 22.89"	W088° 17' 06.72"	749.30	25'	774.30
6	N040° 02' 50.81"	W088° 17' 40.65"	732.12	25'	757.12
7	N040° 02' 59.79"	W088° 17' 35.50"	732.67	25'	757.67
8	N040° 03' 03.97"	W088° 17' 40.82"	730.37	25'	755.37
9	N040° 03' 04.12"	W088° 17' 40.82"	729.92	25'	754.92
10	N040° 03' 13.29"	W088° 17' 37.66"	723.33	25'	748.33
11	N040° 03' 16.92"	W088° 17' 35.75"	731.94	25'	756.94
12	N040° 03' 16.83"	W088° 17' 27.08"	734.96	25'	759.96
13	N040° 03' 01.64"	W088° 16' 00.20"	747.96	25'	772.96
14	N040° 02' 53.91"	W088° 16' 00.17"	745.65	25'	770.65
15	N040° 02' 48.70"	W088° 16' 00.16"	744.35	25'	769.35
16	N040° 02' 40.97"	W088° 16' 00.13"	743.73	25'	768.73

PHASE 6 NOTES

1. PHASE 6 SHALL CONSIST OF THE CONSTRUCTION OF THE PERIMETER ROAD. WORK AREAS WILL BE OUTSIDE THE TAXIWAY OFA & RUNWAY SAFETY AREAS.
2. WORK IN THIS PHASE SHALL BE CONCURRENT WITH ALL OTHER CONSTRUCTION PHASES.
3. EXCAVATION FROM THIS CONSTRUCTION PHASE SHALL BE USED TO BACKFILL THE VOID FROM THE PROPOSED RUNWAY & TAXIWAY PAVEMENTS.
4. THE CONTRACTOR WILL BE ALLOWED A WIDTH OF 20' TO CONSTRUCT THE ROAD AT THE PERIMETER. CROPS THAT ARE DAMAGED BEYOND 20' FROM THE FENCELINE IN TANGENT SECTIONS SHALL BE QUANTIFIED AND DAMAGES PAID BY THE CONTRACTOR TO THE AIRPORT IN THE AMOUNT OF $2,000/ACRE DAMAGED. THE R.E. WILL SURVEY SITE WEEKLY AND NOTE LIMITS OF DAMAGE IN THE PROJECT DIARY.
5. WORK IN THIS PHASE WILL CONSIST OF EXCAVATION, PERIMETER ROAD CONSTRUCTION, DRAINAGE IMPROVEMENTS, AND REMOVALS.
6. WORK WITHIN THIS PHASE SHALL BE CONCURRENT WITH OTHER WORK PHASES.

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-GC106.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG
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SHEET TITLE

CONSTRUCTION ACTIVITY PLAN - PHASE 6

GC106

SHEET 14 OF 72

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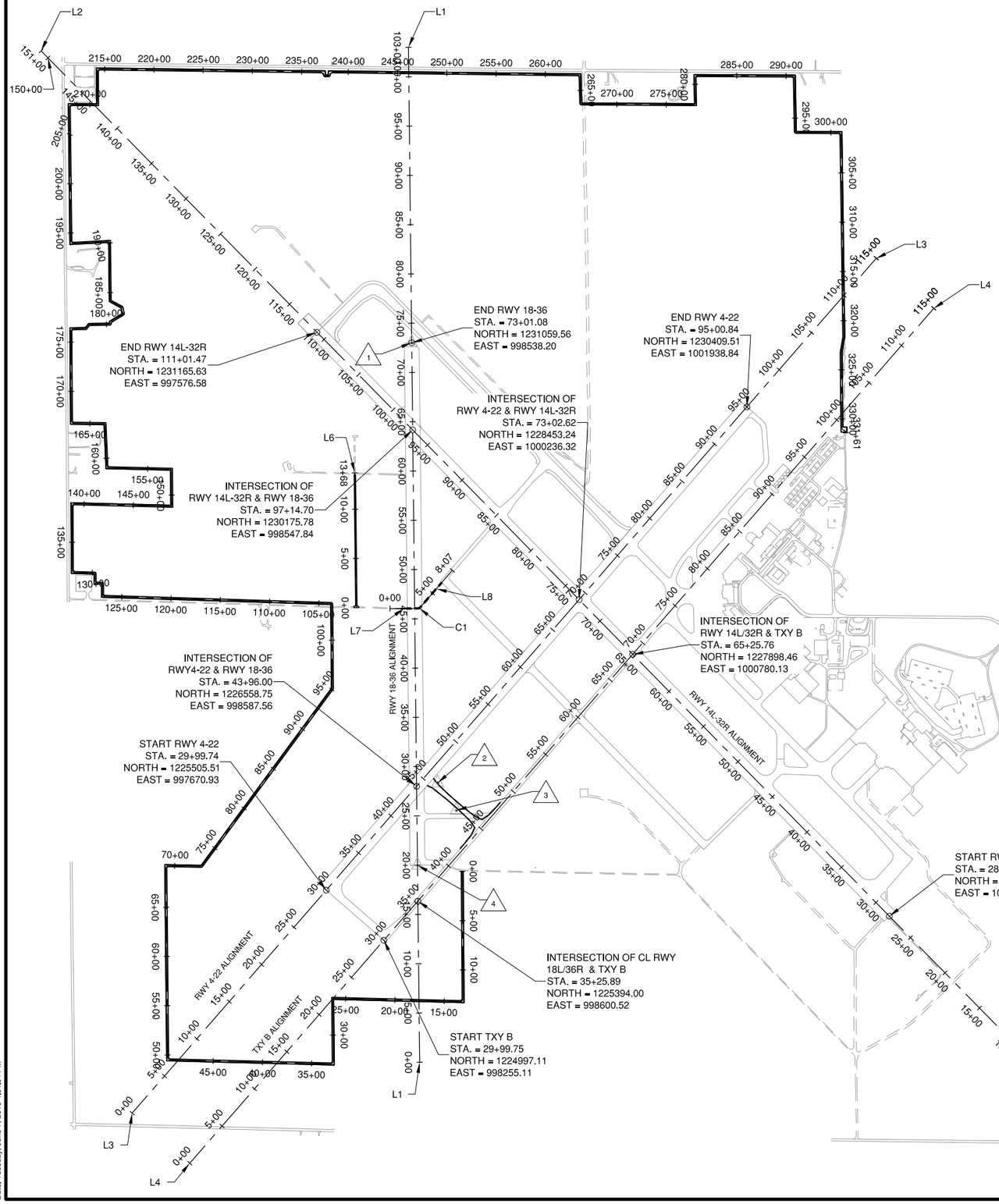

ALIGNMENT DATA					
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L4	TXY B	STA. 0+00.00	N:1222734.2941 E:996285.8041	STA. 115+00.17	N: 1231409.2651 E: 1003835.5571
L3	RWY 4-22	STA. 0+00.00	N:1223242.6974 E:995701.6282	STA. 115+00.17	N: 1231917.6684 E: 1003251.3812
L2	RWY 14L-32R	STA. 0+00.00	N:1223238.2044 E:1005348.2336	STA. 151+00.00	N: 1234021.5957 E: 994778.0647
L7	EMERGENCY	STA. 0+00.00	N:1228362.4349 E:998317.8006	STA. 2+83.60	N: 1228364.6394 E: 998601.3969
L8	EMERGENCY	STA. 3+09.01	N:1228374.9437 E:998623.7937	STA. 8+06.51	N: 1228750.2258 E: 998950.3988
C1	EMERGENCY	CENTER STA. 2+97.13	PI N:1228364.7445 PI E:998614.9173	R = 30.000	CENTER N: 1228394.6385 E: 998601.1637
L6	FAA	STA. 0+00.00	N:1228370.9268 E:997976.3703	STA. 13+68.01	N: 1229738.8563 E: 997961.2589

CONTROL POINT TABLE			
POINT	NORTHING	EASTING	ELEVATION
1	1231059.557	998538.141	752.69
2	1226593.548	998800.842	747.04
3	1226315.734	998988.797	746.98
4	1225758.534	998596.439	749.37

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX

IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056

CMT PROJECT NO: 15059-03-00

CAD DWG FILE: CMI4503-1505903-GI501.DWG

DESIGNED BY: CBG

DRAWN BY: DPA

CHECKED BY: JEF

APPROVED BY: CBG

SHEET TITLE

PROJECT CONTROL POINTS

GI501

SHEET 15 OF 72

Path: K:\Champaign\Ap\15059303\Draw\Sheets\CMI4503-1505903-GI501.dwg
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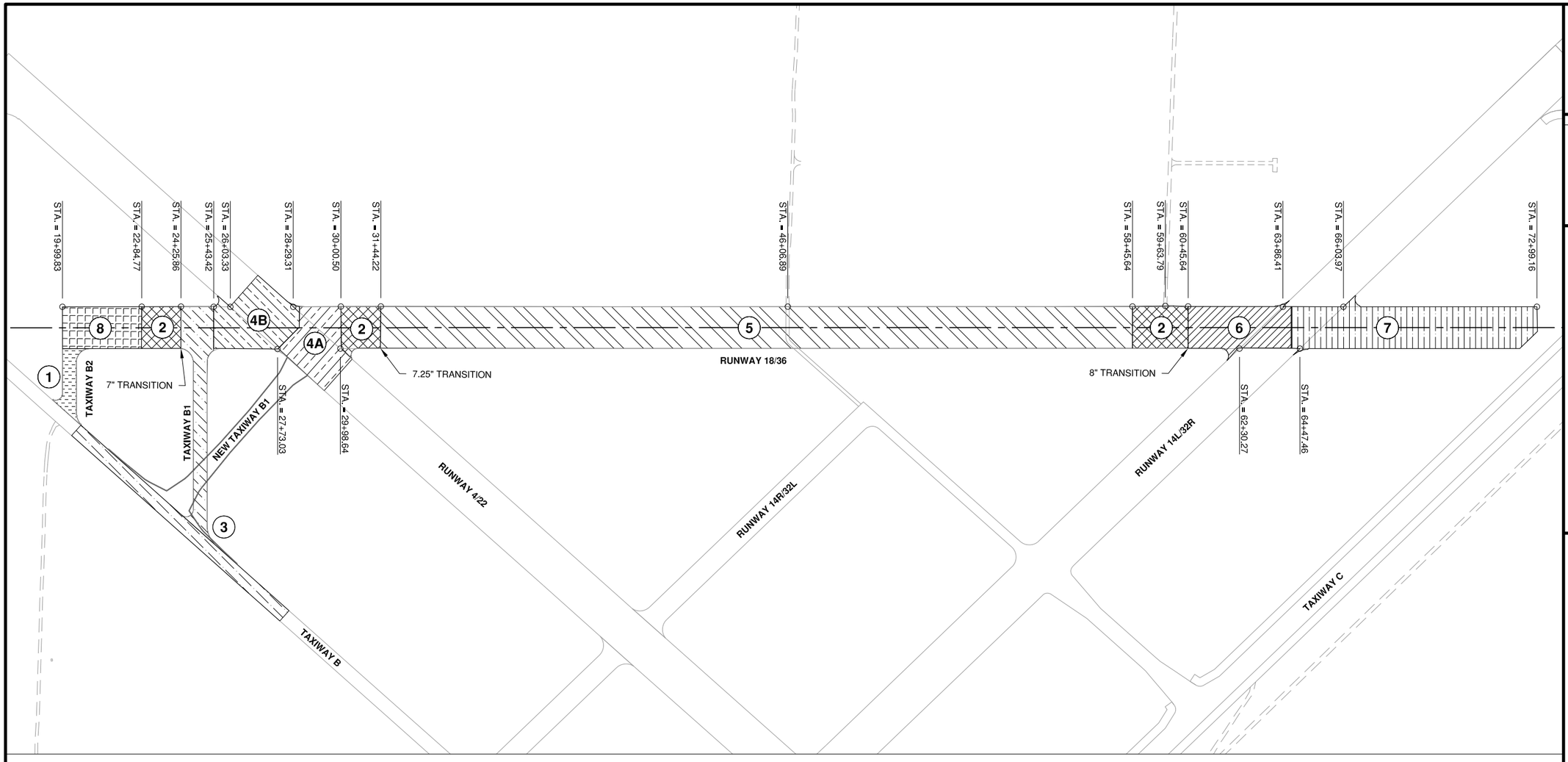

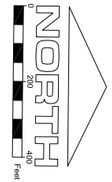

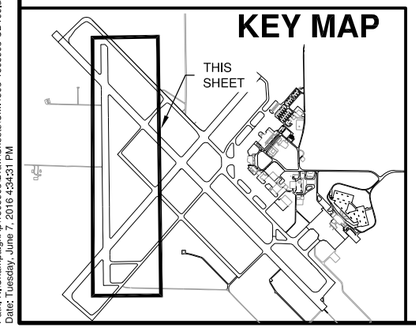

PAVEMENT STRUCTURE LEGEND

1. 16" PCC PAVEMENT
   4" CRUSHED AGG. BASE COURSE
   8" LIME - MODIFIED SOIL
2. BITUMINOUS TRANSITION
   8" PCC PAVEMENT
3. 7" PCC BONDED PAVEMENT
   8" PCC PAVEMENT (501)
4A. 7.25" PCC OVERLAY
   8" PCC PAVEMENT
4B. 7.25" PCC OVERLAY
   9" PCC PAVEMENT
5. 8" PCC PAVEMENT
6. 8" PCC OVERLAY
   8"-9" PCC PAVEMENT
7. 8" PCC OVERLAY
   11"-VARIABLE PCC OVERLAY
   9" PCC PAVEMENT
8. 9" PCC PAVEMENT

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
FEBRUARY 18, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-CD100.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

EXISTING PAVEMENT STRUCTURE

CD100

SHEET 16 OF 72

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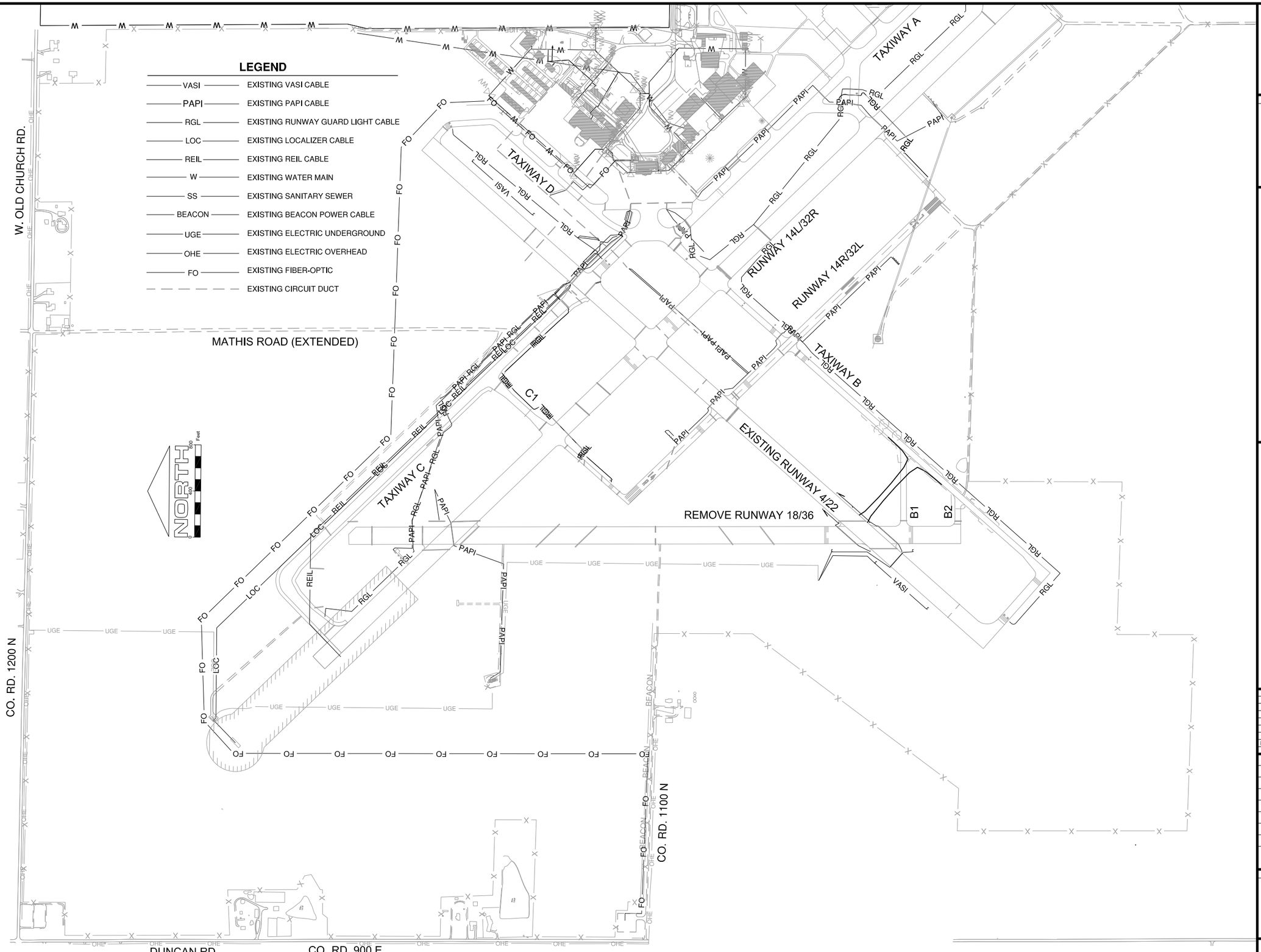

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Date: Tuesday, June 7, 2016 4:34:52 PM

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX

IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056

CMT PROJECT NO: 15059-03-00

CAD DWG FILE: CMI4503-1505903-CE100.DWG

DESIGNED BY: CBG

DRAWN BY: DPA

CHECKED BY: JEF

APPROVED BY: CBG

SHEET TITLE

EXISTING AIRFIELD CABLING

CE100

SHEET 17 OF 72

LEGEND

- UD — UD — EXISTING UNDERDRAIN
- ST — ST — EXISTING STORM SEWER
- CB — EXISTING COLLECTION STRUCTURE
- VASI — EXISTING VASI CABLE
- PAPI — EXISTING PAPI CABLE
- RGL — EXISTING RUNWAY GUARD LIGHT CABLE
- EXISTING BASE MOUNTED RUNWAY LIGHT OR FOUNDATION
- EXISTING AIRFIELD GUIDANCE SIGN
- EXISTING VASI
- EXISTING PAPI
- EXISTING DUCT
- EXISTING TAXIWAY C CIRCUIT
- EXISTING RUNWAY 18/36 CIRCUIT
- EXISTING RUNWAY 14L/32R CIRCUIT
- EXISTING SPLICE CAN
- EXISTING BITUMINOUS PAVEMENT
- REMOVAL
- R — REMOVAL
- CONCRETE PAVEMENT TO BE REMOVED
- EXISTING CROP LINE
- EXISTING CONTOURS

NORTH

0 50 100 Feet

MATCHLINE-STA. 59+50.00

RUNWAY 18 PCU ON CONCRETE BASE

RUNWAY 18 PAPI-TO BE REMOVED AND TURNED OVER TO LOCAL FAA SCC

SEE NOTE 3

REMOVE SPLICE CAN

STA. = 62+30.27

REMOVE CABLE TO THIS LIGHT (AR108900)

REMOVE INPAVEMENT LIGHT

REMOVE CABLE TO THIS LIGHT (AR108900)

STA. = 64+17.46

REMOVE PAVEMENT 18,814 SY SEE NOTE 5

SEE NOTE 1

REMOVE SPLICE CAN

SEE NOTE 1

SEE NOTE 2

REMOVE INPAVEMENT LIGHT

MILLING 1,584 SY AR401650

SEE DETAIL SHEET CD501

SEE NOTE 4

SEE NOTE 6

REMOVE UNDERDRAIN 2,273 LF AR705900

STA. = 72+99.16

STA. = 66+03.97

REMOVE CABLE TO THIS LIGHT (AR108900)

STA. = 63+36.41

REMOVE CABLE TO THIS LIGHT (AR108900)

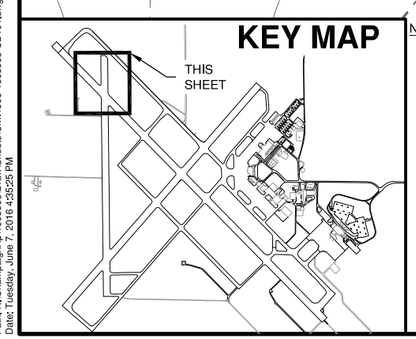
STA. = 60+43.92

FAA RVR SITE

73+00 72+00 71+00 70+00 69+00 68+00 67+00 66+00 65+00 64+00 63+00 62+00 61+00 60+00

RWY 8-26 752 X 82

KEY MAP



NOTES:

1. CONTRACTOR SHALL DETERMINE THE DEPTH AND CONDITION OF THE CABLE PRIOR TO BREAKING AND REMOVAL OF PCC. REMOVAL OF PAVEMENT ABOVE THESE CABLES SHALL BE PERFORMED SUCH THAT THE CABLES BELOW ARE NOT DAMAGED. PAID UNDER AR108970.
2. BITUMINOUS MILLINGS SHALL BE STOCKPILED FOR USE AS A SURFACE COURSE ON THE PROPOSED RTR ROAD.
3. DISCONNECT SIGNS AT RUNWAY LIGHT, REMOVE SIGN BASE (AR125902) AND CABLE TO SIGN AR108960), AND RECONNECT CIRCUIT IN RUNWAY LIGHT.
4. CONTRACTOR SHALL VERIFY THAT DUCT IS ABANDONED PRIOR TO REMOVALS.
5. THE PAVEMENT REMOVAL PROCESS IS TO BE PAID UNDER MULTIPLE PAY ITEMS. REFER TO SHEET TITLED "REMOVAL PROCESS" FOR PAY ITEM BREAKDOWN.
6. CONTRACTOR SHALL PROTECT EXISTING RUNWAY 14L EDGE TO REMAIN IN PLACE. ADDITIONAL SAWING MAY BE REQUIRED TO PROTECT THIS EDGE.

SHEET TOTAL

PAY ITEM	DESCRIPTION	QUANTITY	UNIT
AR108960	REMOVE CABLE	2,670	LF
AR705900	REMOVE UNDERDRAIN	2,273	LF
AR401650	BIT. PAVEMENT MILLING	1,567	SY
REMOVE PAVEMENT	SEE NOTE 5	18,814	SY*

Path: K:\Champaign\Ap\15059303\Draw\Sheets\CMI4503-1505903-CD101.dwg
Date: Tuesday, June 7, 2016 4:35:25 PM

CMT
License No. 184-000613
CONSULTANTS

100% SUBMITTAL
FEBRUARY 18, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX
IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00
CAD DWG FILE: CMI4503-1505903-CD101.DWG
DESIGNED BY: CBG
DRAWN BY: DPA
CHECKED BY: JEF
APPROVED BY: CBG

SHEET TITLE

EXISTING CONDITIONS & REMOVALS 1

CD101

SHEET 18 OF 72

MATCHLINE-STA. 59+50.00

MATCHLINE-STA. 45+50

LEGEND

- UD — UD — EXISTING UNDERDRAIN
- ST — ST — EXISTING STORM SEWER
- CB — EXISTING COLLECTION STRUCTURE
- VASI — EXISTING VASI CABLE
- PAPI — EXISTING PAPI CABLE
- RGL — EXISTING RUNWAY GUARD LIGHT CABLE
- EXISTING BASE MOUNTED RUNWAY LIGHT OR FOUNDATION
- EXISTING AIRFIELD GUIDANCE SIGN
- EXISTING VASI
- EXISTING PAPI
- EXISTING DUCT
- EXISTING CROP LINE
- EXISTING RUNWAY 18/36 CIRCUIT
- EXISTING RUNWAY 14R/32L CIRCUIT
- EXISTING SPLICE CAN
- EXISTING BITUMINOUS PAVEMENT
- REMOVAL
- R — REMOVAL
- CONCRETE PAVEMENT TO BE REMOVED
- EXISTING CONTOURS

REMOVE CABLE FROM LIGHT TO SPLICE CAN (AR108900)

18/36 HOMERUN

SEE NOTE 5

REMOVE CABLE TO THIS LIGHT (AR108900)

REMOVE PAVEMENT 23,334 SY SEE NOTE 4

SEE NOTE 2

MILLING 1,750 SY AR401650

58+00 57+00 56+00 55+00 54+00 53+00 52+00 51+00 50+00 49+00 48+00 47+00 46+00

SEE NOTE 1

REMOVE UNDERDRAIN 2,800 LF AR705900

STA. = 58+45.64

REMOVE CABLE TO THIS LIGHT (AR108900)

POWER TO FAA VASI (18 & 4) SEE NOTE 3

SEE CABLE PROTECTION DETAIL

EXISTING CROP LINE

TO FAA RTR

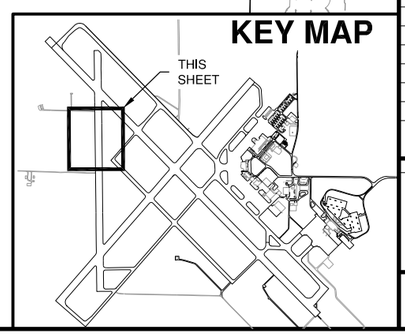
NORTH 0 50 100 Feet

NOTES:

1. CONTRACTOR SHALL DETERMINE THE DEPTH AND CONDITION OF THE FAA CABLE PRIOR TO BREAKING AND REMOVAL OF PCC. REMOVAL OF PAVEMENT ABOVE THESE CABLES SHALL BE PERFORMED SUCH THAT THE CABLES BELOW ARE NOT DAMAGED. PAID UNDER AR108970.
2. BITUMINOUS MILLINGS SHALL BE STOCKPILED FOR USE AS A SURFACE COURSE ON THE PROPOSED RTR ROAD.
3. CONTRACTOR SHALL VERIFY THE DEPTH OF THE EXISTING CABLE AT A RATE OF ONE CHECK PER 100 LF.
4. THE PAVEMENT REMOVAL PROCESS IS TO BE PAID UNDER MULTIPLE PAY ITEMS. REFER TO SHEET TITLED "REMOVAL PROCESS" FOR PAY ITEM BREAKDOWN.
5. CONTRACTOR SHALL TURN OFF CIRCUIT BREAKER TO REGULATOR AT THE VAULT. THEN SHALL DISCONNECT AND REMOVE SERIES CIRCUIT CABLES FROM THE VAULT TO THE HANDHOLE LOCATED OUTSIDE OF THE VAULT.

PAY ITEM	DESCRIPTION	QUANTITY	UNIT
AR108960	REMOVE CABLE	1,105	LF
AR705900	REMOVE UNDERDRAIN	2,800	LF
AR401650	BIT. PAVEMENT MILLING	1,750	SY
REMOVE PAVEMENT	SEE NOTE 4	23,334	SY

KEY MAP



CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
FEBRUARY 18, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX

IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056

CMT PROJECT NO: 15059-03-00

CAD DWG FILE: CMI4503-1505903-CD102.DWG

DESIGNED BY: CBG

DRAWN BY: DPA

CHECKED BY: JEF

APPROVED BY: CBG

SHEET TITLE

EXISTING CONDITIONS & REMOVALS 2

CD102

SHEET 19 OF 72

Path: K:\Champaign\p\1505903\Draw\Sheets\CMI4503-1505903-CD102.dwg
Date: Tuesday, June 7, 2016 4:26:11 PM

MATCHLINE-
STA. 45+50

MATCHLINE-
STA. 31+50

LEGEND

- UD — UD — EXISTING UNDERDRAIN
- ST — ST — EXISTING STORM SEWER
- CB — EXISTING COLLECTION STRUCTURE
- VASI — EXISTING VASI CABLE
- PAPI — EXISTING PAPI CABLE
- RGL — EXISTING RUNWAY GUARD LIGHT CABLE
- EXISTING BASE MOUNTED RUNWAY LIGHT OR FOUNDATION
- EXISTING AIRFIELD GUIDANCE SIGN
- EXISTING VASI
- EXISTING PAPI
- EXISTING DUCT
- EXISTING CROP LINE
- EXISTING RUNWAY 18/36 CIRCUIT
- EXISTING RUNWAY 4/22 CIRCUIT
- EXISTING SPLICE CAN
- EXISTING BITUMINOUS PAVEMENT
- REMOVAL
- R — REMOVAL
- CONCRETE PAVEMENT TO BE REMOVED
- EXISTING CONTOURS

NORTH
0 50 100 Feet

45+00 44+00 43+00 42+00 41+00 40+00 39+00 38+00 37+00 36+00 35+00 34+00 33+00 32+00

REMOVE PAVEMENT
23,334 SY
SEE NOTE 4

SEE NOTE 2

REMOVE UNDERDRAIN
2,800 LF
AR705900

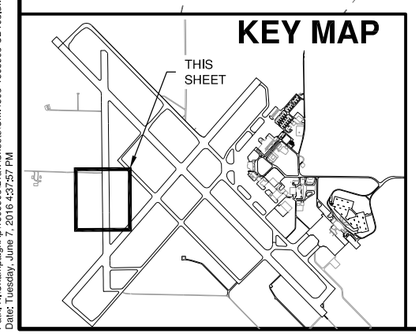
REMOVE CABLE
3,675 LF
AR108960

SEE CABLE
PROTECTION DETAIL-
SHEET EL503

POWER TO FAA VASI (18 & 4)
SEE NOTE 3

VASI POWER
TRANSFORMER-
DISCONNECT POWER TO 36
VASI PRIOR TO REMOVAL

KEY MAP



NOTES:

1. CONTRACTOR SHALL DETERMINE THE DEPTH AND CONDITION OF THE FAA CABLE PRIOR TO BREAKING AND REMOVAL OF PCC. REMOVAL OF PAVEMENT ABOVE THESE CABLES SHALL BE PERFORMED SUCH THAT THE CABLES BELOW ARE NOT DAMAGED. PAID UNDER AR108970.
2. CONTRACTOR SHALL VERIFY DUCTS ARE ABANDONED. IF THEY ARE ABANDONED, CONTRACTOR SHALL REMOVE THESE DUCTS UNDER ITEM AR110900.
3. CONTRACTOR SHALL VERIFY THE DEPTH OF THE EXISTING CABLE AT A RATE OF ONE CHECK PER 100 LF. PAID UNDER AR108970.
4. THE PAVEMENT REMOVAL PROCESS IS TO BE PAID UNDER MULTIPLE PAY ITEMS. REFER TO SHEET TITLED "REMOVAL PROCESS" FOR PAY ITEM BREAKDOWN.

PAY ITEM	DESCRIPTION	QUANTITY	UNIT
AR108960	REMOVE CABLE	3,675	LF
AR705900	REMOVE UNDERDRAIN	2,800	LF
AR401650	BIT. PAVEMENT MILLING	0	SY
AR110900	REMOVE DUCT	404	LF
REMOVE PAVEMENT	SEE NOTE 4	23,334	SY

CMT
License No. 184-000613
CONSULTANTS

100% SUBMITTAL
FEBRUARY 18, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO.	3-17-0006-XX
IL. PROJ. NO.	CMI-4503 CONTRACT NO. UN056
CMT PROJECT NO:	15059-03-00
CAD DWG FILE:	CMI4503-1505903-CD103.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

EXISTING CONDITIONS & REMOVALS 3

CD103

SHEET 20 OF 72

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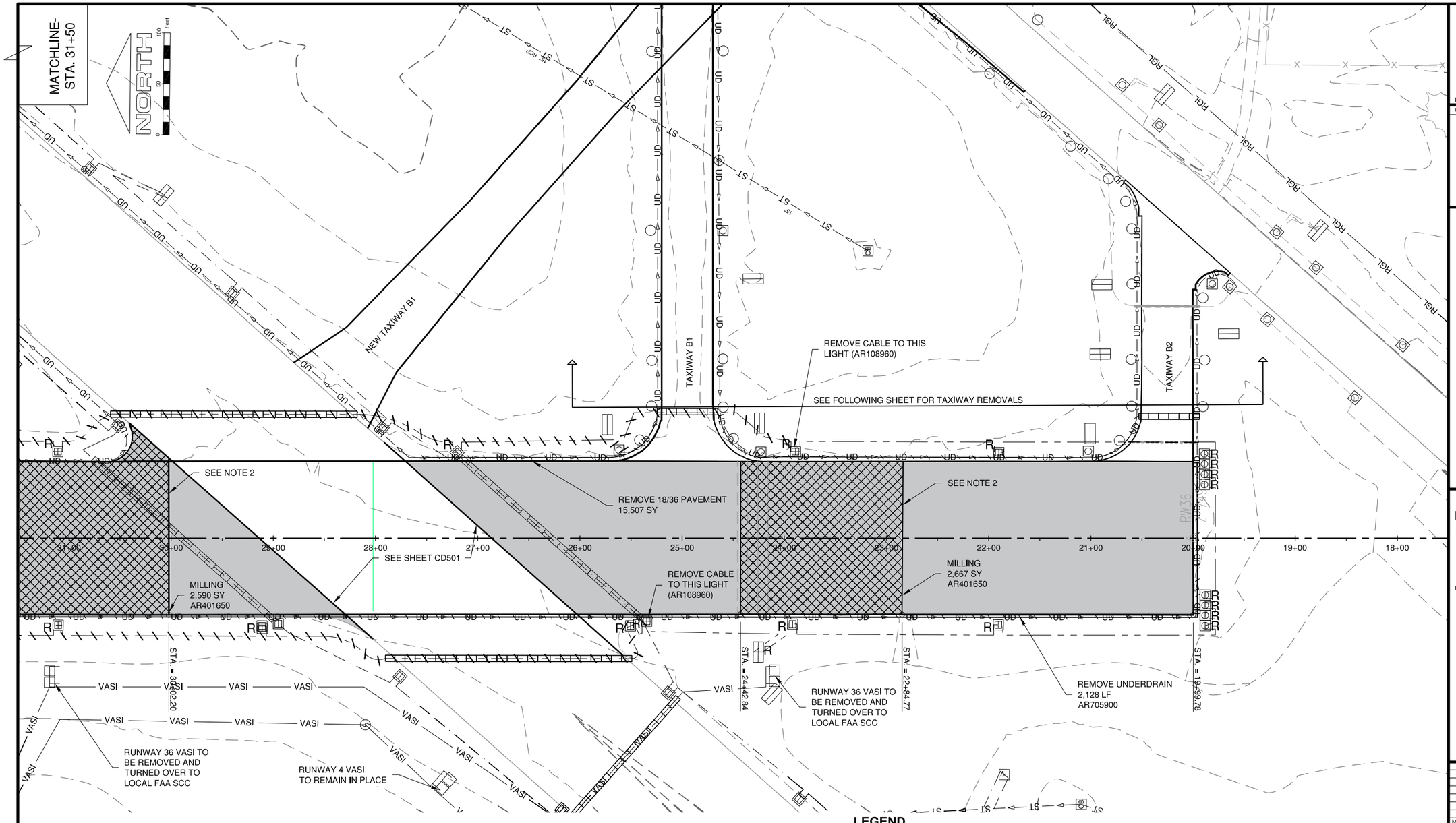


NOTES:

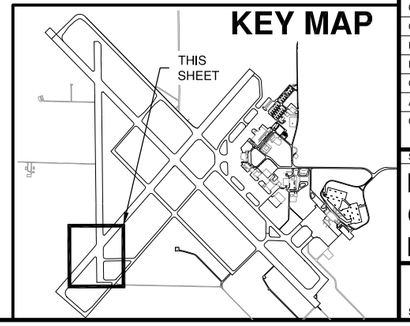
1. BITUMINOUS MILLINGS SHALL BE STOCKPILED FOR USE AS A SURFACE COURSE ON THE NEW RTR ROAD.
2. CONTRACTOR SHALL PROTECT EXISTING RUNWAY EDGE TO REMAIN IN PLACE. ADDITIONAL SAWING MAY BE REQUIRED TO PROTECT EDGE.
3. THE PAVEMENT REMOVAL PROCESS IS TO BE PAID UNDER MULTIPLE PAY ITEMS. REFER TO SHEET TITLED "REMOVAL PROCESS" FOR PAY ITEM BREAKDOWN.

PAY ITEM	DESCRIPTION	QUANTITY	UNIT
AR108960	REMOVE CABLE	1,610	LF
AR705900	REMOVE UNDERDRAIN	2,128	LF
AR401650	BIT. PAVEMENT MILLING	5,257	SY
REMOVE PAVEMENT	SEE NOTE 3	15,507	SY

LEGEND

- UD — UD — EXISTING UNDERDRAIN
- ST — ST — EXISTING STORM SEWER
- CB — EXISTING COLLECTION STRUCTURE
- VASI — EXISTING VASI CABLE
- PAPI — EXISTING PAPI CABLE
- RGL — EXISTING RUNWAY GUARD LIGHT CABLE
- EXISTING BASE MOUNTED RUNWAY LIGHT OR FOUNDATION
- EXISTING AIRFIELD GUIDANCE SIGN
- EXISTING VASI
- EXISTING PAPI
- EXISTING DUCT
- EXISTING CROP LINE
- EXISTING RUNWAY 18/36 CIRCUIT
- EXISTING RUNWAY 4/22 CIRCUIT
- EXISTING SPLICE CAN
- EXISTING BITUMINOUS PAVEMENT
- REMOVAL
- R — REMOVAL
- NEW TAXIWAY B1
- CONCRETE PAVEMENT TO BE REMOVED
- EXISTING DIRECTIONAL BORE
- EXISTING CONTOURS

KEY MAP



CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO.	3-17-0006-XX
IL. PROJ. NO.	CMI-4503
CONTRACT NO.	UN056
CMT PROJECT NO:	15059-03-00
CAD DWG FILE:	CMI4503-1505903-CD104.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

EXISTING CONDITIONS & REMOVALS 4

CD104

SHEET 21 OF 72

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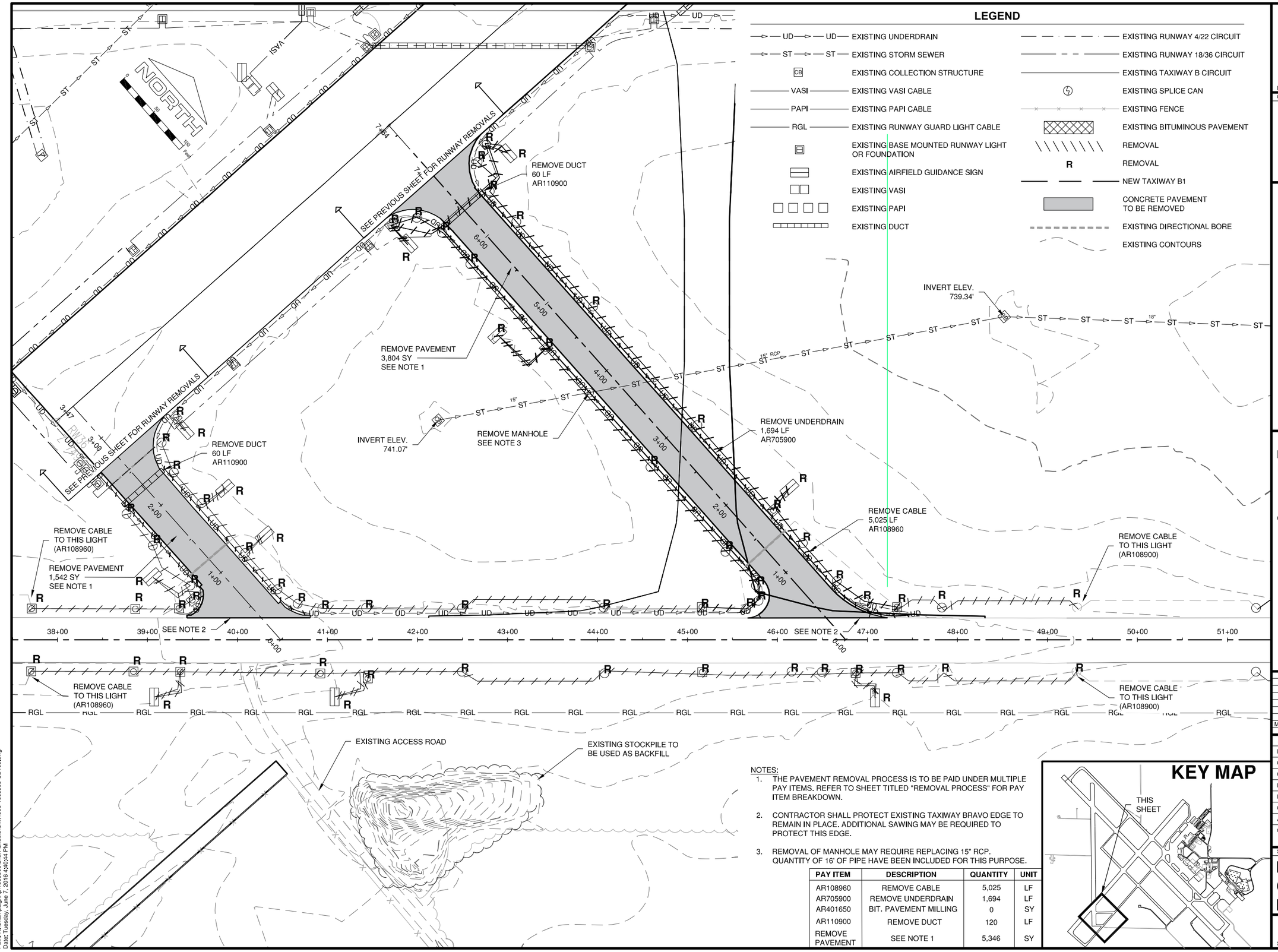
Date: Tuesday, June 7, 2016 4:39:58 PM



LEGEND

- EXISTING UNDERDRAIN
- EXISTING STORM SEWER
- EXISTING COLLECTION STRUCTURE
- EXISTING VASI CABLE
- EXISTING PAPI CABLE
- EXISTING RUNWAY GUARD LIGHT CABLE
- EXISTING BASE MOUNTED RUNWAY LIGHT OR FOUNDATION
- EXISTING AIRFIELD GUIDANCE SIGN
- EXISTING VASI
- EXISTING PAPI
- EXISTING DUCT
- EXISTING RUNWAY 4/22 CIRCUIT
- EXISTING RUNWAY 18/36 CIRCUIT
- EXISTING TAXIWAY B CIRCUIT
- EXISTING SPLICE CAN
- EXISTING FENCE
- EXISTING BITUMINOUS PAVEMENT
- REMOVAL
- R REMOVAL
- NEW TAXIWAY B1
- CONCRETE PAVEMENT TO BE REMOVED
- EXISTING DIRECTIONAL BORE
- EXISTING CONTOURS

NOTES:

1. THE PAVEMENT REMOVAL PROCESS IS TO BE PAID UNDER MULTIPLE PAY ITEMS. REFER TO SHEET TITLED "REMOVAL PROCESS" FOR PAY ITEM BREAKDOWN.
2. CONTRACTOR SHALL PROTECT EXISTING TAXIWAY BRAVO EDGE TO REMAIN IN PLACE. ADDITIONAL SAWING MAY BE REQUIRED TO PROTECT THIS EDGE.
3. REMOVAL OF MANHOLE MAY REQUIRE REPLACING 15" RCP. QUANTITY OF 16' OF PIPE HAVE BEEN INCLUDED FOR THIS PURPOSE.

PAY ITEM	DESCRIPTION	QUANTITY	UNIT
AR108960	REMOVE CABLE	5,025	LF
AR705900	REMOVE UNDERDRAIN	1,694	LF
AR401650	BIT. PAVEMENT MILLING	0	SY
AR110900	REMOVE DUCT	120	LF
REMOVE PAVEMENT	SEE NOTE 1	5,346	SY

KEY MAP

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO:	15059-03-00
CAD DWG FILE:	CMI4503-1505903-CD105.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

EXISTING CONDITIONS & REMOVALS 5

CD105

SHEET 22 OF 72

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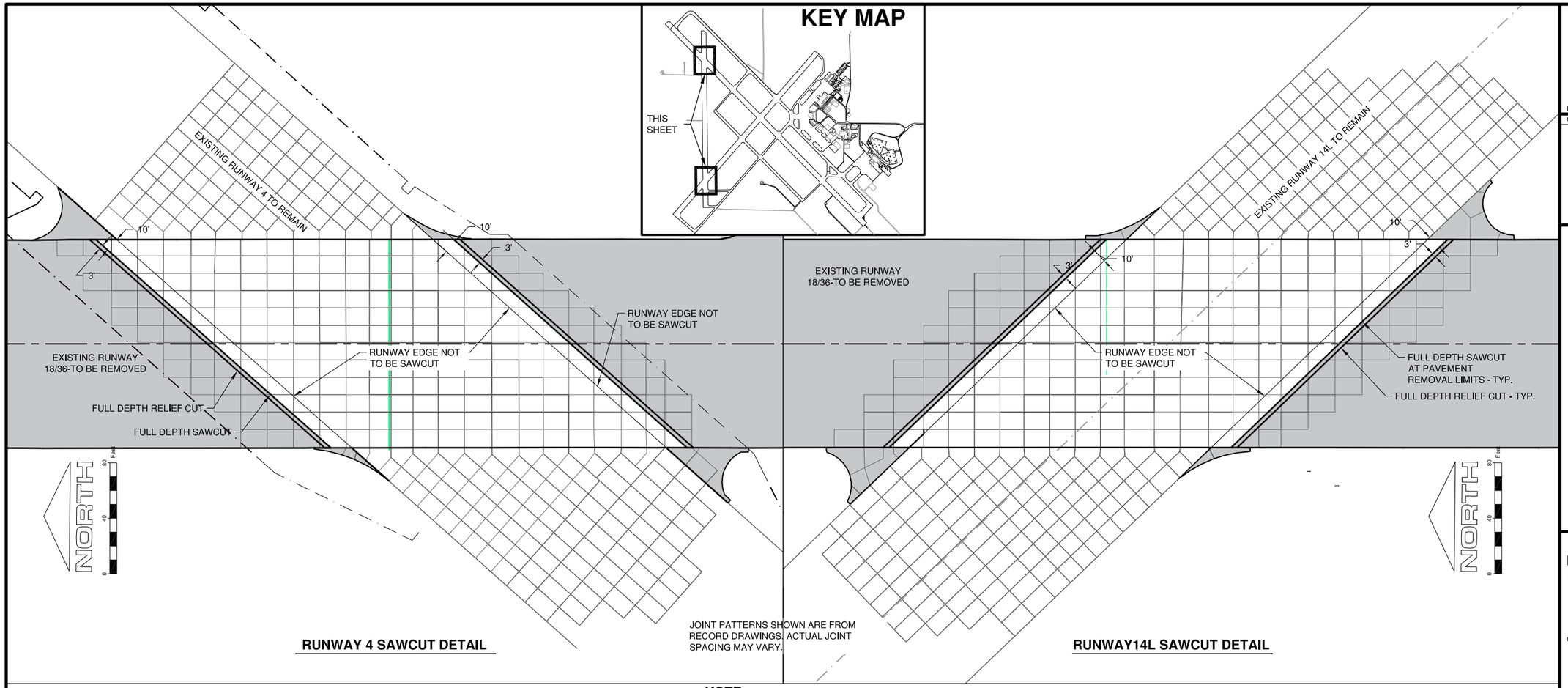
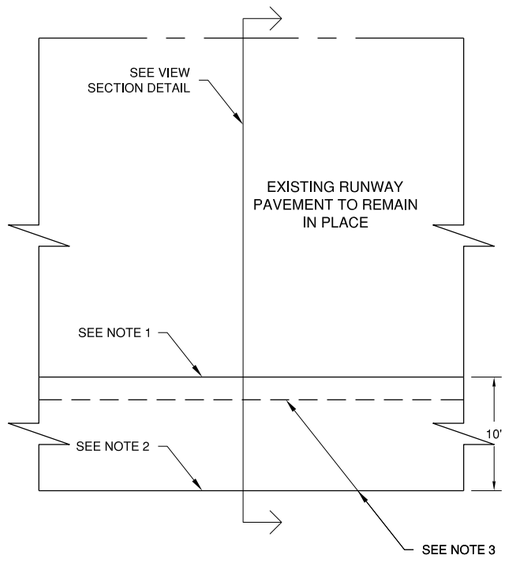


RUNWAY 4 SAWCUT DETAIL

JOINT PATTERNS SHOWN ARE FROM RECORD DRAWINGS. ACTUAL JOINT SPACING MAY VARY.

RUNWAY14L SAWCUT DETAIL



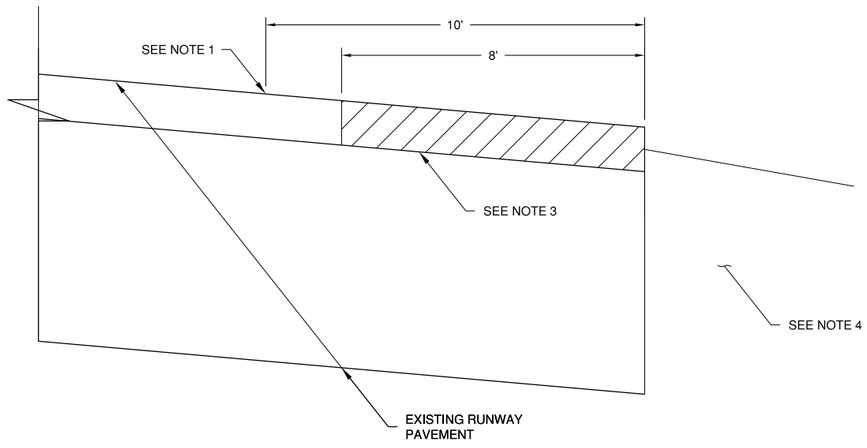
PLAN VIEW DETAIL

NOTE:

JOINT PATTERNS SHOWN ARE FROM RECORD DRAWINGS. ACTUAL JOINT SPACING MAY VARY.

NOTES:

1. EXISTING EDGE OF RUNWAY 4/22 AND 14R/32L TO REMAIN UNDISTURBED.
2. SAWCUT LIMIT FOR REMOVAL OF RUNWAY 18/36 PAVEMENT.
3. SURFACE TREATMENT OF 10' PAVEMENT TO REMAIN. MILL EXISTING CONCRETE 4" AND CONSTRUCT NEW 4" BITUMINOUS SURFACE.
4. PCC REMOVAL TO BE BACKFILLED WITH SHOULDER EMBANKMENT AND GRADED PER THE RSA GRADING CRITERIA.



SECTION VIEW DETAIL

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
FEBRUARY 18, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-CD501.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

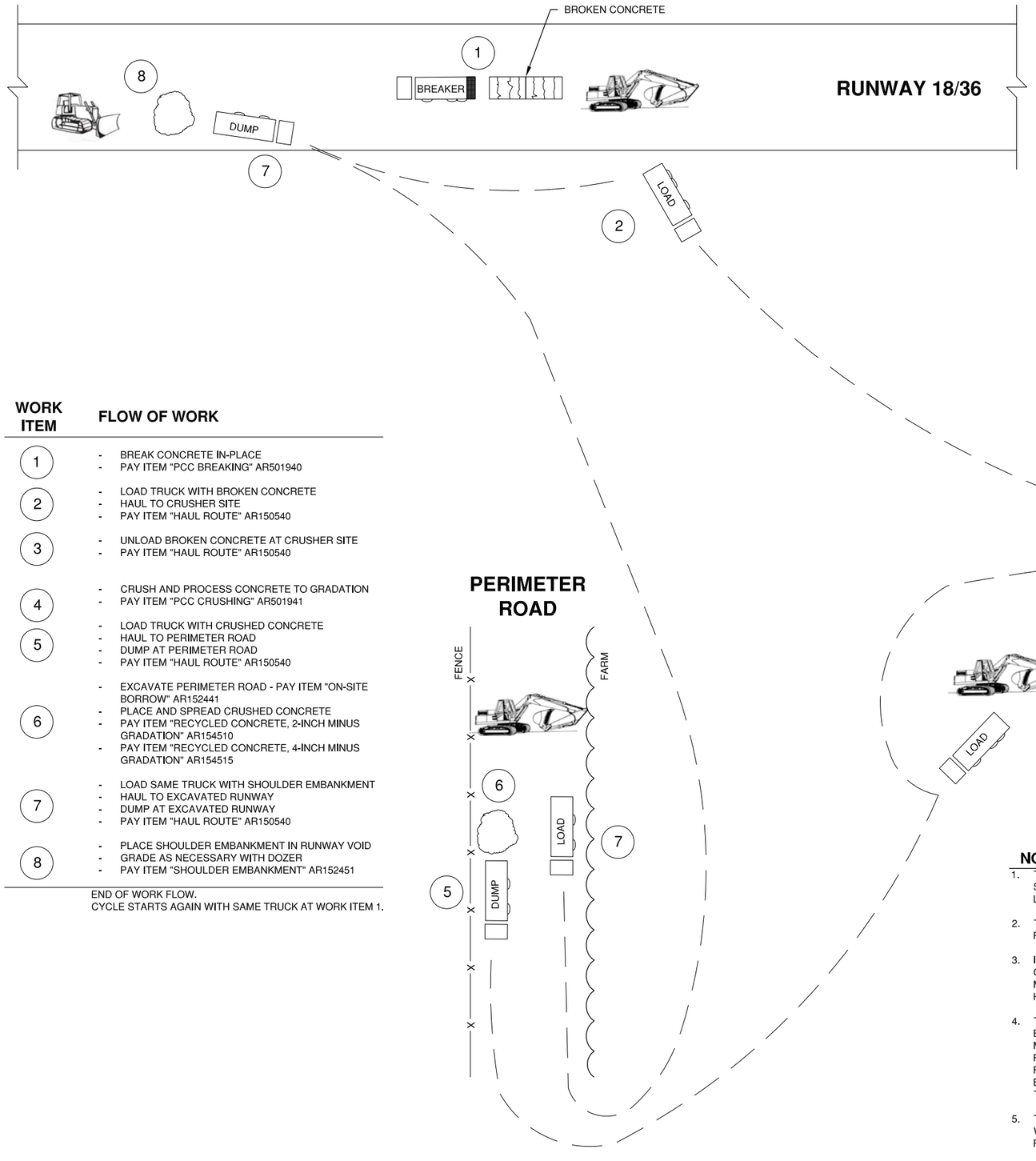
SHEET TITLE

RWY INTERSECTION REMOVAL DETAIL

CD501

SHEET 23 OF 72

Path: K:\Champaign\Apt\1505903\Draw\Sheets\CMI4503-1505903-CD501.dwg
Date: Tuesday, June 7, 2016 4:43:45 PM



LEGEND

- EXCAVATED EMBANKMENT FROM PERIMETER ROAD
- LOAD — LOADED TRUCK
- DUMP — UNLOADED TRUCK

WORK ITEM	FLOW OF WORK
1	- BREAK CONCRETE IN-PLACE - PAY ITEM "PCC BREAKING" AR501940
2	- LOAD TRUCK WITH BROKEN CONCRETE - HAUL TO CRUSHER SITE - PAY ITEM "HAUL ROUTE" AR150540
3	- UNLOAD BROKEN CONCRETE AT CRUSHER SITE - PAY ITEM "HAUL ROUTE" AR150540
4	- CRUSH AND PROCESS CONCRETE TO GRADATION - PAY ITEM "PCC CRUSHING" AR501941
5	- LOAD TRUCK WITH CRUSHED CONCRETE - HAUL TO PERIMETER ROAD - DUMP AT PERIMETER ROAD - PAY ITEM "HAUL ROUTE" AR150540
6	- EXCAVATE PERIMETER ROAD - PAY ITEM "ON-SITE BORROW" AR152441 - PLACE AND SPREAD CRUSHED CONCRETE - PAY ITEM "RECYCLED CONCRETE, 2-INCH MINUS GRADATION" AR154510 - PAY ITEM "RECYCLED CONCRETE, 4-INCH MINUS GRADATION" AR154515
7	- LOAD SAME TRUCK WITH SHOULDER EMBANKMENT - HAUL TO EXCAVATED RUNWAY - DUMP AT EXCAVATED RUNWAY - PAY ITEM "HAUL ROUTE" AR150540
8	- PLACE SHOULDER EMBANKMENT IN RUNWAY VOID - GRADE AS NECESSARY WITH DOZER - PAY ITEM "SHOULDER EMBANKMENT" AR152451

END OF WORK FLOW.
CYCLE STARTS AGAIN WITH SAME TRUCK AT WORK ITEM 1.

NOTES

1. THE ENTIRE QUANTITY OF CRUSHED USABLE PCC PAVEMENT REMOVED FROM THE RUNWAY SHALL REMAIN ON SITE AND BE INCORPORATED INTO THE PROJECT AS A PART OF THE PERIMETER ROADS AND A STABILIZATION LAYER FOR THE CONSTRUCTION OF THE TAXIWAY.
2. THE QUANTITY OF PCC HAS BEEN ESTIMATED FROM RECORD DRAWINGS THAT INDICATE THE THICKNESS OF PAVEMENTS THAT WERE CONSTRUCTED.
3. ITS ESTIMATED THAT THE VOLUME OF UNCRUSHED MATERIAL WILL INCREASE 5% TO 10% ONCE IT HAS BEEN CRUSHED INTO THE REQUIRED MAXIMUM AGGREGATE SIZES. IT WAS ALSO ESTIMATED THAT UP TO 10% OF THE MATERIAL WOULD NOT BE SUITABLE FOR INCORPORATION INTO THE DESIGNATED AREAS AND WOULD BE HAULED OFF SITE UNDER AR152419 - UNCLASSIFIED DISPOSAL OFFSITE.
4. THE CONTRACTOR SHALL MONITOR THE ACTUAL QUANTITY OUTPUT OF CRUSHED MATERIAL VERSES THE ESTIMATED MATERIAL PRODUCTION. IN THE EVENT THAT IT APPEARS THERE WILL BE A SURPLUS OF CRUSHED MATERIAL, THE CONTRACTOR SHALL INCREASE THE THICKNESS OF THE PERIMETER ROAD PAVEMENTS AND/OR PLACE AT LOCATIONS DESIGNATED BY THE RE/AIRPORT. AN ADDITIONAL 10% OF MATERIAL HAS BEEN FACTORED INTO THE RECYCLED CONCRETE PAY ITEMS TO ACCOUNT FOR THIS POTENTIAL SURPLUS. IN THE EVENT THAT IT APPEARS THAT THERE WILL BE A SHORTFALL OF CRUSHED MATERIAL NEEDED TO CONSTRUCT THE PERIMETER ROADS, THE LIMITS OF THE ROAD WILL BE REDUCED AT THE DIRECTION OF THE RE/AIRPORT.
5. THE CONTRACTOR SHALL MONITOR THE QUANTITY OF SHOULDER EMBANKMENT BEING PLACED WHERE THE PCC WAS REMOVED. THE CONTRACTOR SHALL MODIFY THE CROSS SLOPE OF THE SHOULDER EXCAVATION BEING PLACED AT THE RUNWAY REMOVAL TO BALANCE THE AVAILABLE EXCAVATION WITH THE NEEDED EXCAVATION.

CMT
License No. 184-000613
CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER
FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

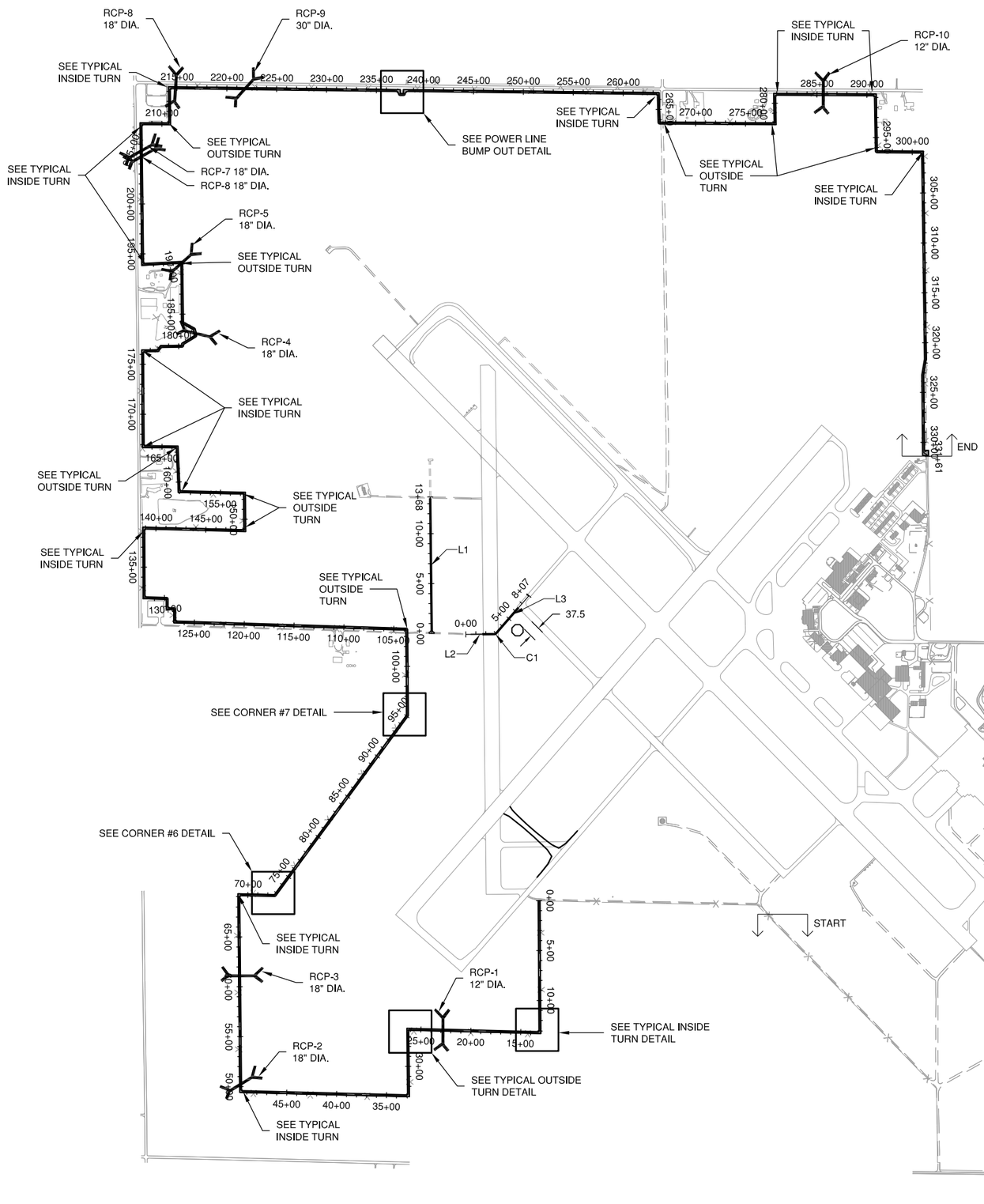
MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-CD502.DWG
DESIGNED BY:	EMH
DRAWN BY:	EMH
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE
REMOVAL PROCESS

CD502
SHEET 24 OF 72

Path: K:\Champaign\Ap\15059303\Draw\Sheets\CMI4503-1505903-CD502.dwg
Date: Tuesday, June 7, 2016 4:44:51 PM



NORTH
0 600 1200 Feet

LEGEND

- PIPE CROSSINGS
- PERIMETER ROAD
- NEW ROADWAY SIGN (S)

ALIGNMENT DATA

ALIGNMENT SEGMENT	ALIGNMENT	BEGIN STATION/ PI STATION	NORTHING/ EASTING	END STATION/ CURVE RADIUS	NORTHING/ EASTING
L2	EMERGENCY ACCESS	STA. 0+00.00	N:1228362.4349 E:998317.8006	STA. 2+83.60	N: 1228364.6394 E: 998601.3969
C1	EMERGENCY ACCESS	CENTER STA. 2+97.13	PI N:1228364.7445 PI E:998614.9173	R = 30.000	CENTER N: 1228394.6385 E: 998601.1637
L3	EMERGENCY ACCESS	STA. 3+09.01	N:1228374.9437 E:998623.7937	STA. 8+06.51	N: 1228750.2258 E: 998950.3988

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX
IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00
CAD DWG FILE: CMI4503-1505903-CP101.DWG
DESIGNED BY: CBG
DRAWN BY: DPA
CHECKED BY: JEF
APPROVED BY: CBG

SHEET TITLE

PROPOSED IMPROVEMENTS - PERIMETER ROAD

CP101

SHEET 25 OF 72

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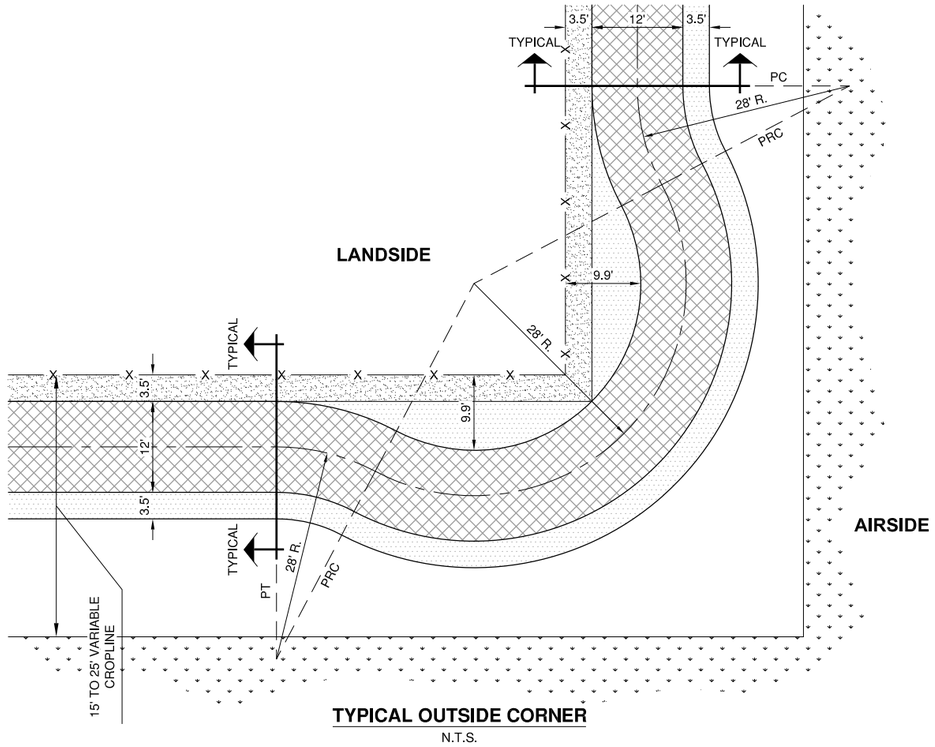
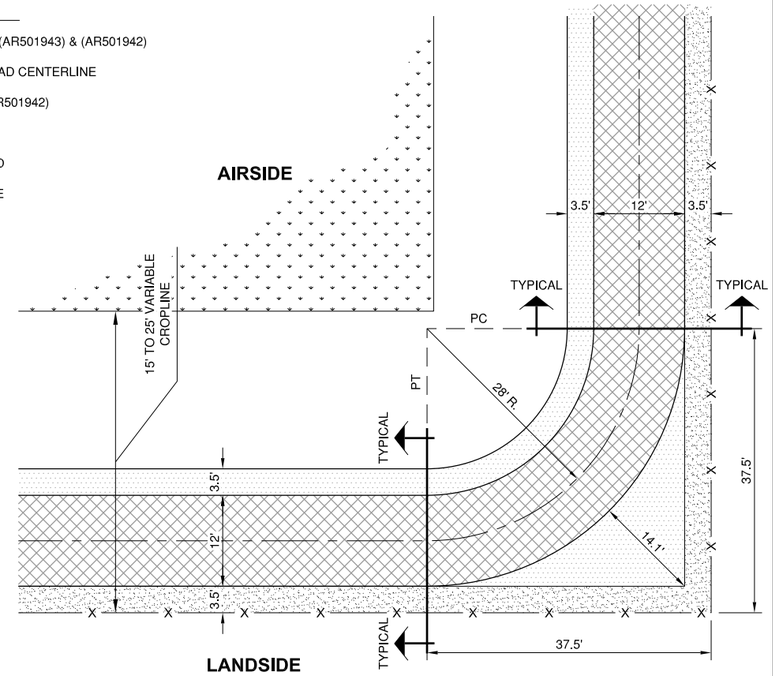
Date: Tuesday, June 7, 2016 4:45:13 PM



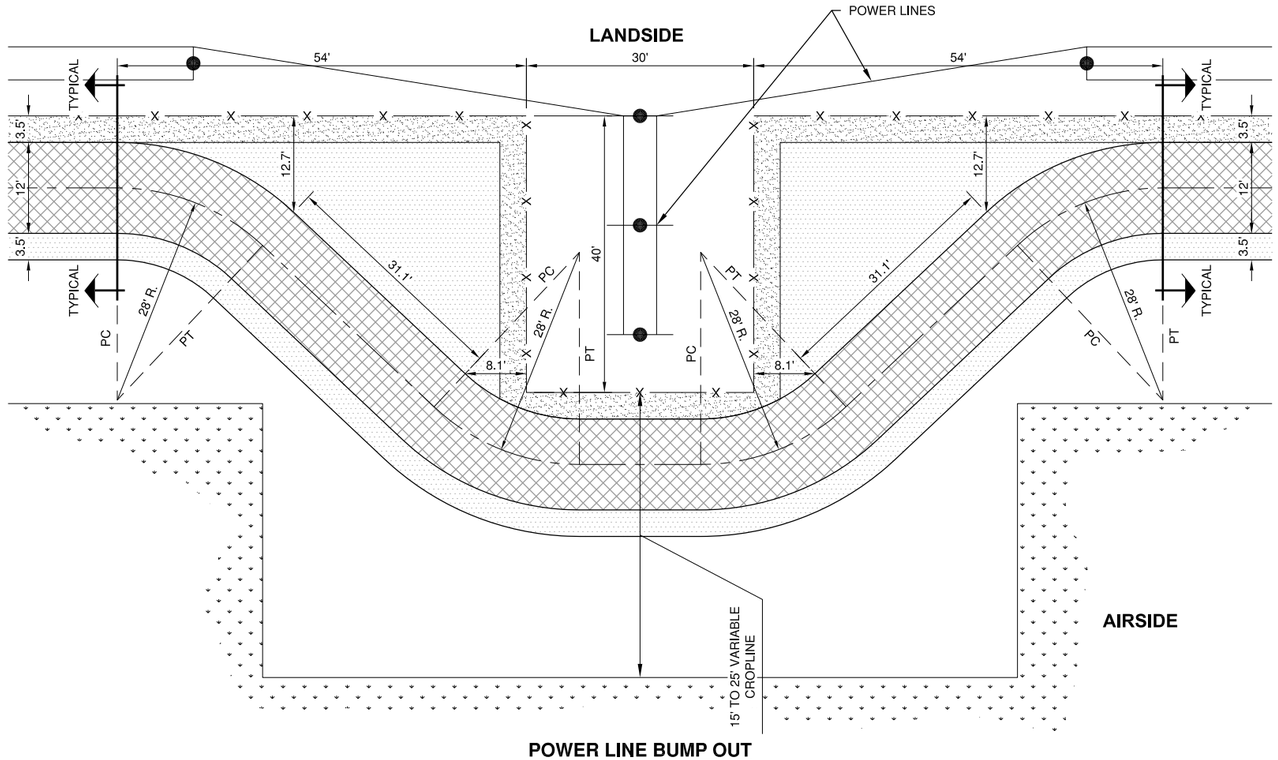
TYPICAL OUTSIDE CORNER
N.T.S.

LEGEND

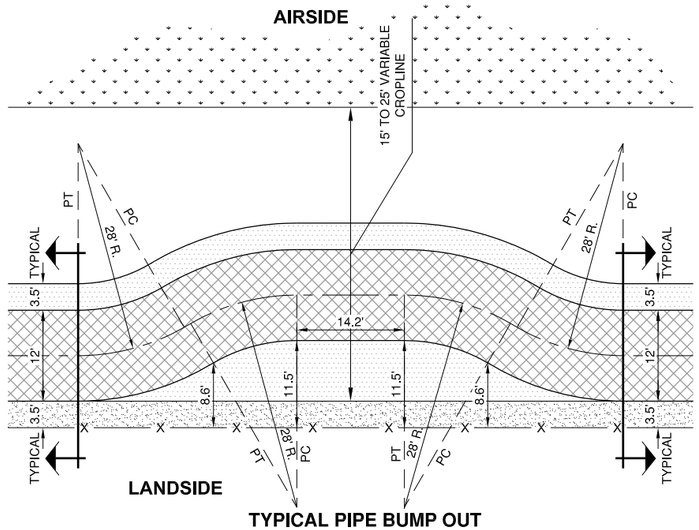
- NEW TRAVEL LANE - (AR501943) & (AR501942)
- NEW PERIMETER ROAD CENTERLINE
- NEW SHOULDER - (AR501942)
- ANIMAL CONTROL
- EXISTING FARM FIELD
- X EXISTING FENCE LINE



TYPICAL INSIDE CORNER
N.T.S.



POWER LINE BUMP OUT
N.T.S.



TYPICAL PIPE BUMP OUT
N.T.S.

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX
IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00
CAD DWG FILE: CMI4503-1505903-CP501.DWG
DESIGNED BY: CBG
DRAWN BY: DPA
CHECKED BY: JEF
APPROVED BY: CBG

SHEET TITLE

PERIMETER ROAD - TYPICAL TURNS 1

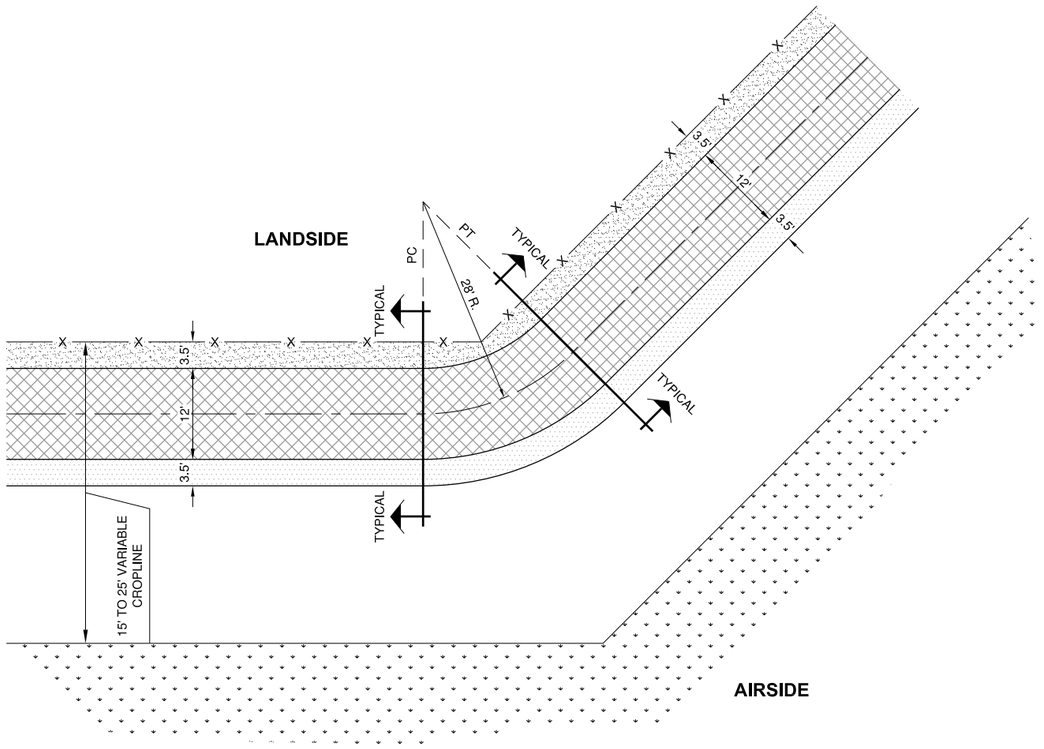
CP501

SHEET 26 OF 72

Path: K:\Champaign\Ap\15059303\Draw\Sheets\CMI4503-1505903-CP501.dwg
Date: Tuesday, June 7, 2016 4:45:27 PM

LEGEND

- NEW TRAVEL LANE - (AR501943) & (AR501942)
- NEW PERIMETER ROAD CENTERLINE
- NEW SHOULDER - (AR501942)
- ANIMAL CONTROL
- EXISTING FARM FIELD
- X — EXISTING FENCE LINE



CORNER #6
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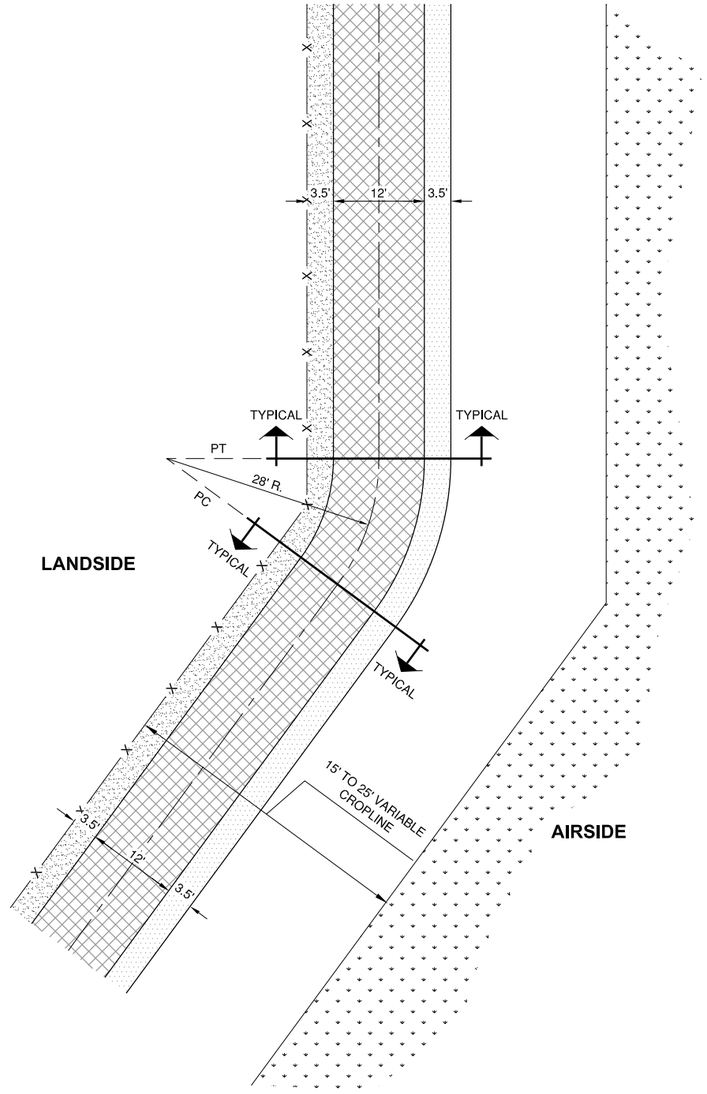

CORNER #7
N.T.S.

CMT

License No. 184-000613

CONSULTANTS

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JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-CP502.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG
COPYRIGHT:	CRAWFORD, MURPHY & TILLY, INC. 2015

SHEET TITLE

PERIMETER ROAD - TYPICAL TURNS 2

CP502

SHEET 27 OF 72

Path: K:\ChampaignAp\1505903\Draw\Sheets\CMI4503-1505903-CP502.dwg
Date: Tuesday, June 7, 2016 4:45:40 PM

PERINMETER ROAD ALIGNMENT DATA				
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L1	STA. 0+00.00	N:1225695.5586 E:999050.9062	STA. 12+92.34	N: 1224403.2475 E: 999059.2620
C1	CENTER STA. 13+21.23	PI N:1224374.3531 PI E:999059.4488	R = 28.000	CENTER N: 1224403.0665 E: 999031.2626
L2	STA. 13+37.20	N:1224375.0752 E:999030.5628	STA. 25+85.88	N: 1224406.2837 E: 997782.2720
C2	CENTER STA. 25+91.20	PI N:1224406.4166 PI E:997776.9560	R = 28.000	CENTER N: 1224434.2749 E: 997782.9719
C3	CENTER STA. 26+68.16	PI N:1224436.4612 PI E:997705.9653	R = 28.000	CENTER N: 1224382.7034 E: 997761.1458
C4	CENTER STA. 26+69.49	PI N:1224365.6888 PI E:997738.1219	R = 28.000	CENTER N: 1224359.5380 E: 997710.1619
L3	STA. 26+75.28	N:1224359.7227 E:997738.1613	STA. 32+64.75	N: 1223770.2663 E: 997742.0504
C5	CENTER STA. 32+92.10	PI N:1223742.9212 PI E:997742.2308	R = 28.090	CENTER N: 1223770.0809 E: 997713.9614
L4	STA. 33+08.12	N:1223742.0070 E:997714.9004	STA. 49+34.58	N: 1223783.0010 E: 996088.9536
C6	CENTER STA. 49+60.26	PI N:1223783.6483 PI E:996063.2815	R = 28.041	CENTER N: 1223811.0332 E: 996089.6604
L5	STA. 49+76.17	N:1223809.2782 E:996061.6743	STA. 60+82.97	N: 1224916.0253 E: 996051.1937
C7	CENTER STA. 60+88.36	PI N:1224921.4173 PI E:996051.1427	R = 28.000	CENTER N: 1224916.2904 E: 996079.1925
L6	STA. 60+93.62	N:1224926.4427 E:996053.0978	STA. 60+96.30	N: 1224928.9388 E: 996054.0689
C8	CENTER STA. 61+01.69	PI N:1224933.9641 PI E:996056.0241	R = 28.000	CENTER N: 1224939.0910 E: 996027.9743
L7	STA. 61+06.95	N:1224939.3562 E:996055.9730	STA. 61+21.17	N: 1224953.5709 E: 996055.8384
C9	CENTER STA. 61+26.56	PI N:1224958.9630 PI E:996055.7874	R = 28.000	CENTER N: 1224953.3058 E: 996027.8397
L8	STA. 61+31.82	N:1224963.9504 E:996053.7374	STA. 61+34.50	N: 1224966.4277 E: 996052.7192
C10	CENTER STA. 61+39.89	PI N:1224971.4151 PI E:996050.6692	R = 28.000	CENTER N: 1224977.0723 E: 996078.6169
L9	STA. 61+45.15	N:1224976.8072 E:996050.6182	STA. 68+94.00	N: 1225725.6217 E: 996043.5271
C11	CENTER STA. 69+22.90	PI N:1225754.5231 PI E:996043.2534	R = 28.000	CENTER N: 1225725.8869 E: 996071.5259
L10	STA. 69+38.87	N:1225753.8799 E:996072.1490	STA. 72+57.77	N: 1225746.7834 E: 996390.9681
C12	CENTER STA. 72+72.33	PI N:1225746.4595 PI E:996405.5198	R = 28.000	CENTER N: 1225774.7764 E: 996391.5912
L11	STA. 72+84.62	N:1225758.1838 E:996414.1452	STA. 95+00.75	N: 1227543.2844 E: 997727.4137
C13	CENTER STA. 95+10.73	PI N:1227551.3199 PI E:997733.3253	R = 30.000	CENTER N: 1227561.0622 E: 997703.2486
L12	STA. 95+20.01	N:1227561.2954 E:997733.2477	STA. 103+30.17	N: 1228371.4249 E: 997726.9504

PERINMETER ROAD ALIGNMENT DATA				
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C14	CENTER STA. 103+35.09	PI N:1228376.3504 PI E:997726.9121	R = 28.000	CENTER N: 1228371.6425 E: 997754.9496
C15	CENTER STA. 103+96.90	PI N:1228434.6987 PI E:997747.5847	R = 28.000	CENTER N: 1228390.3440 E: 997702.1646
C16	CENTER STA. 104+07.23	PI N:1228415.4167 PI E:997688.7622	R = 28.000	CENTER N: 1228443.5580 E: 997684.7211
L13	STA. 104+12.06	N:1228415.5719 E:997683.8390	STA. 126+68.22	N: 1228486.6474 E: 995428.7913
C17	CENTER STA. 126+95.29	PI N:1228487.5000 PI E:995401.7403	R = 28.000	CENTER N: 1228514.6335 E: 995429.6734
L14	STA. 127+11.25	N:1228514.5644 E:995401.6735	STA. 127+73.71	N: 1228577.0198 E: 995401.5192
C18	CENTER STA. 127+78.65	PI N:1228581.9564 PI E:995401.5070	R = 28.000	CENTER N: 1228577.0889 E: 995429.5192
C19	CENTER STA. 128+40.71	PI N:1228640.4260 PI E:995422.6222	R = 28.000	CENTER N: 1228596.1099 E: 995376.8485
C20	CENTER STA. 128+50.90	PI N:1228621.2135 PI E:995363.5001	R = 28.000	CENTER N: 1228649.3684 E: 995359.5415
L15	STA. 128+55.74	N:1228621.3854 E:995358.5665	STA. 128+61.26	N: 1228621.5776 E: 995353.0508
C21	CENTER STA. 128+88.20	PI N:1228622.5159 PI E:995326.1208	R = 28.000	CENTER N: 1228649.5606 E: 995354.0258
L16	STA. 129+04.17	N:1228649.4621 E:995326.0260	STA. 129+34.27	N: 1228679.5616 E: 995325.9201
C22	CENTER STA. 129+39.24	PI N:1228684.5309 PI E:995325.9026	R = 28.000	CENTER N: 1228679.6601 E: 995353.9200
C23	CENTER STA. 130+02.10	PI N:1228743.7287 PI E:995347.3624	R = 28.000	CENTER N: 1228698.7452 E: 995301.2725
C24	CENTER STA. 130+11.85	PI N:1228723.7134 PI E:995287.6606	R = 28.000	CENTER N: 1228751.8408 E: 995283.4719
L17	STA. 130+16.72	N:1228723.8516 E:995282.6933	STA. 131+77.63	N: 1228728.3264 E: 995121.8448
C25	CENTER STA. 132+04.72	PI N:1228729.0797 PI E:995094.7665	R = 28.000	CENTER N: 1228756.3156 E: 995122.6234
L18	STA. 132+20.68	N:1228756.1681 E:995094.6238	STA. 138+61.84	N: 1229397.3158 E: 995091.2474
C26	CENTER STA. 138+90.69	PI N:1229426.1702 PI E:995091.0954	R = 28.000	CENTER N: 1229397.4633 E: 995119.2470
L19	STA. 139+06.66	N:1229425.4546 E:995119.9413	STA. 148+44.96	N: 1229402.1877 E: 996057.9459
C27	CENTER STA. 148+50.27	PI N:1229402.0559 PI E:996063.2570	R = 28.000	CENTER N: 1229374.1963 E: 996057.2515
C28	CENTER STA. 149+22.76	PI N:1229373.7892 PI E:996130.1463	R = 28.000	CENTER N: 1229425.7795 E: 996079.0501
C29	CENTER STA. 149+26.66	PI N:1229441.1587 PI E:996103.0440	R = 28.000	CENTER N: 1229446.6801 E: 996131.0036
L20	STA. 149+31.85	N:1229446.4713 E:996103.0044	STA. 152+19.04	N: 1229733.6566 E: 996100.8636
C30	CENTER STA. 152+24.01	PI N:1229738.6319 PI E:996100.8265	R = 28.000	CENTER N: 1229733.8653 E: 996128.8628

PERINMETER ROAD ALIGNMENT DATA				
ALIGNMENT SEGMENT	BEGIN STATION/ PI STATION	NORTHING/ EASTING	END STATION/ CURVE RADIUS	NORTHING/ EASTING
C31	CENTER STA. 152+87.03	PI N:1229798.0499 PI E:996122.1305	R = 28.000	CENTER N: 1229752.7657 E: 996076.1487
C32	CENTER STA. 152+96.70	PI N:1229777.6566 PI E:996062.3938	R = 28.000	CENTER N: 1229805.7625 E: 996058.0563
L21	STA. 153+01.57	N:1229777.7698 E:996057.4196	STA. 158+87.15	N: 1229791.0853 E: 995471.9928
C33	CENTER STA. 159+13.36	PI N:1229791.6813 PI E:995445.7872	R = 28.000	CENTER N: 1229819.0780 E: 995472.6295
L22	STA. 159+29.28	N:1229817.8693 E:995444.6556	STA. 163+08.99	N: 1230197.2200 E: 995428.2639
C34	CENTER STA. 163+13.82	PI N:1230202.0509 PI E:995428.0552	R = 28.000	CENTER N: 1230198.4287 E: 995456.2378
C35	CENTER STA. 163+73.52	PI N:1230259.1945 PI E:995445.6586	R = 28.000	CENTER N: 1230214.9154 E: 995402.7197
C36	CENTER STA. 163+84.98	PI N:1230239.8437 PI E:995389.0829	R = 28.000	CENTER N: 1230267.9017 E: 995384.5965
L23	STA. 163+89.72	N:1230239.9039 E:995384.2478	STA. 166+60.65	N: 1230243.2780 E: 995113.3344
C37	CENTER STA. 166+88.13	PI N:1230243.6202 PI E:995085.8577	R = 28.000	CENTER N: 1230271.2758 E: 995113.6831
L24	STA. 167+04.11	N:1230271.0984 E:995085.6836	STA. 176+07.18	N: 1231174.1480 E: 995079.9621
C38	CENTER STA. 176+34.90	PI N:1231201.8741 PI E:995079.7864	R = 28.000	CENTER N: 1231174.3254 E: 995107.9615
L25	STA. 176+50.88	N:1231202.3218 E:995107.5094	STA. 177+62.52	N: 1231204.1242 E: 995219.1331
C39	CENTER STA. 177+75.84	PI N:1231204.3392 PI E:995232.4449	R = 28.000	CENTER N: 1231232.1206 E: 995218.6811
L26	STA. 177+87.38	N:1231214.7995 E:995240.6807	STA. 178+12.65	N: 1231234.6537 E: 995256.3125
C40	CENTER STA. 178+25.97	PI N:1231245.1231 PI E:995264.5554	R = 28.000	CENTER N: 1231217.3327 E: 995278.3121
L27	STA. 178+37.52	N:1231245.3293 E:995277.8788	STA. 180+21.32	N: 1231248.1740 E: 995461.6583
C41	CENTER STA. 180+37.28	PI N:1231248.4209 PI E:995477.6135	R = 28.000	CENTER N: 1231276.1706 E: 995461.2250
L28	STA. 180+50.33	N:1231262.2740 E:995485.5331	STA. 180+67.48	N: 1231277.1674 E: 995494.0475
C42	CENTER STA. 180+74.85	PI N:1231283.5600 PI E:995497.7020	R = 28.000	CENTER N: 1231263.2708 E: 995518.3556
L29	STA. 180+81.89	N:1231287.3277 E:995504.0286	STA. 181+98.65	N: 1231347.0750 E: 995604.3524
C43	CENTER STA. 182+18.80	PI N:1231357.3815 PI E:995621.6584	R = 28.000	CENTER N: 1231371.1320 E: 995590.0254
L30	STA. 182+33.58	N:1231377.0665 E:995617.3893	STA. 182+58.73	N: 1231401.6501 E: 995612.0577
C44	CENTER STA. 182+71.65	PI N:1231414.2784 PI E:995609.3190	R = 28.000	CENTER N: 1231395.7156 E: 995584.6939
L31	STA. 182+82.94	N:1231420.3881 E:995597.9328	STA. 184+01.00	N: 1231476.2060 E: 995493.9091

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO:	15059-03-00
CAD DWG FILE:	CMI4503-1505903-CP601.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

PERIMETER ROAD ALIGNMENT DATA TABLES 1

CP601

SHEET 28 OF 72

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PERINMETER ROAD ALIGNMENT DATA				
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C45	CENTER STA. 184+17.52	PI N:1231484.0171 PI E:995479.3522	R = 28.000	CENTER N: 1231500.8784 E: 995507.1481
L32	STA. 184+30.85	N:1231500.5361 E:995479.1502	STA. 189+72.50	N: 1232042.1445 E: 995472.5274
C46	CENTER STA. 189+77.95	PI N:1232047.5985 PI E:995472.4607	R = 28.000	CENTER N: 1232042.4868 E: 995500.5253
C47	CENTER STA. 190+52.52	PI N:1232117.1823 PI E:995499.6546	R = 28.000	CENTER N: 1232062.8708 E: 995448.3669
C48	CENTER STA. 190+55.07	PI N:1232086.0930 PI E:995431.8324	R = 28.000	CENTER N: 1232113.7772 E: 995425.0317
L33	STA. 190+60.30	N:1232085.8150 E:995426.4857	STA. 193+78.19	N: 1232069.3078 E: 995109.0215
C49	CENTER STA. 194+07.35	PI N:1232067.7938 PI E:995079.9061	R = 28.000	CENTER N: 1232097.2700 E: 995107.5675
L34	STA. 194+23.30	N:1232096.9466 E:995079.5694	STA. 204+90.35	N: 1233163.9255 E: 995067.2450
C50	CENTER STA. 204+96.41	PI N:1233169.9778 PI E:995067.1751	R = 28.000	CENTER N: 1233164.2489 E: 995095.2431
C51	CENTER STA. 205+08.33	PI N:1233181.0594 PI E:995072.0474	R = 28.000	CENTER N: 1233186.7884 E: 995043.9794
L35	STA. 205+14.20	N:1233187.1118 E:995071.9775	STA. 205+28.57	N: 1233201.4807 E: 995071.8115
C52	CENTER STA. 205+33.96	PI N:1233206.8727 PI E:995071.7492	R = 28.000	CENTER N: 1233201.1573 E: 995043.8134
L36	STA. 205+39.22	N:1233211.8558 E:995069.6889	STA. 205+41.90	N: 1233214.3309 E: 995068.6655
C53	CENTER STA. 205+47.29	PI N:1233219.3141 PI E:995066.6052	R = 28.000	CENTER N: 1233225.0294 E: 995094.5410
L37	STA. 205+52.56	N:1233224.7060 E:995066.5429	STA. 207+75.66	N: 1233447.7993 E: 995063.9660
C54	CENTER STA. 208+04.15	PI N:1233476.2842 PI E:995063.6370	R = 28.000	CENTER N: 1233448.1227 E: 995091.9642
L38	STA. 208+20.13	N:1233476.1222 E:995092.1234	STA. 210+33.60	N: 1233474.9083 E: 995305.5866
C55	CENTER STA. 210+38.79	PI N:1233474.8788 PI E:995310.7830	R = 28.000	CENTER N: 1233446.9088 E: 995305.4274
C56	CENTER STA. 211+08.18	PI N:1233449.5723 PI E:995375.5124	R = 28.000	CENTER N: 1233499.0645 E: 995325.8180
C57	CENTER STA. 211+14.11	PI N:1233514.2686 PI E:995349.9144	R = 28.000	CENTER N: 1233519.6676 E: 995377.8902
L39	STA. 211+19.26	N:1233519.5408 E:995349.8905	STA. 214+08.96	N: 1233809.2355 E: 995348.5778
C58	CENTER STA. 214+37.44	PI N:1233837.7167 PI E:995348.4487	R = 28.000	CENTER N: 1233809.3624 E: 995376.5775
L40	STA. 214+53.42	N:1233837.3602 E:995376.9280	STA. 221+45.31	N: 1233828.6982 E: 996068.7683
C59	CENTER STA. 221+50.70	PI N:1233828.6307 PI E:996074.1602	R = 28.000	CENTER N: 1233800.7004 E: 996068.4177
L41	STA. 221+55.97	N:1233826.5655 E:996079.1413	STA. 221+58.64	N: 1233825.5398 E: 996081.6154

PERINMETER ROAD ALIGNMENT DATA				
ALIGNMENT SEGMENT	BEGIN STATION/ PI STATION	NORTHING/ EASTING	END STATION/ CURVE RADIUS	NORTHING/ EASTING
C60	CENTER STA. 221+64.04	PI N:1233823.4746 PI E:996086.5966	R = 28.000	CENTER N: 1233851.4049 E: 996092.3390
L42	STA. 221+69.30	N:1233823.4071 E:996091.9885	STA. 221+83.51	N: 1233823.2291 E: 996106.2027
C61	CENTER STA. 221+88.91	PI N:1233823.1616 PI E:996111.5946	R = 28.000	CENTER N: 1233851.2269 E: 996106.5533
L43	STA. 221+94.17	N:1233825.1014 E:996116.6259	STA. 221+96.85	N: 1233826.0649 E: 996119.1249
C62	CENTER STA. 222+02.24	PI N:1233828.0047 PI E:996124.1562	R = 28.000	CENTER N: 1233799.9394 E: 996129.1976
L44	STA. 222+07.50	N:1233827.9372 E:996129.5481	STA. 236+83.15	N: 1233809.4632 E: 997605.0827
C63	CENTER STA. 236+94.40	PI N:1233809.3224 PI E:997616.3266	R = 28.000	CENTER N: 1233781.4654 E: 997604.7322
L45	STA. 237+04.54	N:1233801.4440 E:997624.3499	STA. 237+39.53	N: 1233776.9297 E: 997649.3152
C64	CENTER STA. 237+51.29	PI N:1233768.6844 PI E:997657.7122	R = 28.000	CENTER N: 1233796.9083 E: 997668.9329
L46	STA. 237+61.81	N:1233768.9136 E:997669.4783	STA. 237+78.20	N: 1233769.2330 E: 997685.8705
C65	CENTER STA. 237+89.32	PI N:1233769.4495 PI E:997696.9834	R = 28.000	CENTER N: 1233797.2276 E: 997685.3251
L47	STA. 237+99.36	N:1233777.2288 E:997704.9222	STA. 238+32.62	N: 1233800.5028 E: 997728.6735
C66	CENTER STA. 238+44.24	PI N:1233808.6383 PI E:997736.9758	R = 28.000	CENTER N: 1233780.5039 E: 997748.2705
L48	STA. 238+54.65	N:1233808.5020 E:997748.5989	STA. 263+25.20	N: 1233779.5259 E: 1000218.9796
C67	CENTER STA. 263+52.21	PI N:1233779.2091 PI E:1000245.9880	R = 28.000	CENTER N: 1233751.5279 E: 1000218.6512
L49	STA. 263+68.18	N:1233752.2068 E:1000246.6430	STA. 265+93.98	N: 1233526.4699 E: 1000252.1186
C68	CENTER STA. 265+98.96	PI N:1233521.4980 PI E:1000252.2392	R = 28.000	CENTER N: 1233525.7909 E: 1000224.1268
C69	CENTER STA. 266+61.92	PI N:1233461.7789 PI E:1000231.9627	R = 28.000	CENTER N: 1233507.7866 E: 1000277.1537
C70	CENTER STA. 266+71.61	PI N:1233483.1217 PI E:1000291.3091	R = 28.000	CENTER N: 1233455.0907 E: 1000296.1047
L50	STA. 266+76.48	N:1233483.0902 E:1000296.2823	STA. 277+52.58	N: 1233476.2653 E: 1001372.3616
C71	CENTER STA. 277+57.85	PI N:1233476.2320 PI E:1001377.6226	R = 28.000	CENTER N: 1233448.2659 E: 1001372.1840
C72	CENTER STA. 278+28.73	PI N:1233450.0403 PI E:1001443.6180	R = 28.000	CENTER N: 1233500.3166 E: 1001392.8414
C73	CENTER STA. 278+33.66	PI N:1233515.7731 PI E:1001416.7742	R = 28.000	CENTER N: 1233521.4883 E: 1001444.6850
L51	STA. 278+38.80	N:1233521.0335 E:1001416.6887	STA. 280+60.56	N: 1233742.7571 E: 1001413.0870
C74	CENTER STA. 280+89.16	PI N:1233771.3576 PI E:1001412.6224	R = 28.000	CENTER N: 1233743.2119 E: 1001441.0833

PERINMETER ROAD ALIGNMENT DATA				
ALIGNMENT SEGMENT	BEGIN STATION/ PI STATION	NORTHING/ EASTING	END STATION/ CURVE RADIUS	NORTHING/ EASTING
L52	STA. 281+05.14	N:1233771.2115 E:1001441.2263	STA. 290+56.87	N: 1233766.3513 E: 1002392.9486
C75	CENTER STA. 290+84.24	PI N:1233766.2115 PI E:1002420.3153	R = 28.000	CENTER N: 1233738.3517 E: 1002392.8056
L53	STA. 291+00.21	N:1233738.8488 E:1002420.8012	STA. 296+00.38	N: 1233238.7597 E: 1002429.6813
C76	CENTER STA. 296+05.38	PI N:1233233.7618 PI E:1002429.7700	R = 28.000	CENTER N: 1233238.2626 E: 1002401.6857
C77	CENTER STA. 296+68.98	PI N:1233173.6104 PI E:1002408.7912	R = 28.000	CENTER N: 1233219.8211 E: 1002454.5621
C78	CENTER STA. 296+78.32	PI N:1233195.1635 PI E:1002468.7392	R = 28.000	CENTER N: 1233167.1235 E: 1002473.5084
L54	STA. 296+83.21	N:1233195.1226 E:1002473.7378	STA. 300+75.47	N: 1233191.9097 E: 1002865.9824
C79	CENTER STA. 301+02.85	PI N:1233191.6854 PI E:1002893.3662	R = 28.000	CENTER N: 1233163.9107 E: 1002865.7530
L55	STA. 301+18.83	N:1233164.3033 E:1002893.7503	STA. 321+61.77	N: 1231121.5572 E: 1002922.3996
C80	CENTER STA. 321+64.35	PI N:1231118.9816 PI E:1002922.4357	R = 28.000	CENTER N: 1231121.1645 E: 1002894.4023
L56	STA. 321+66.91	N:1231116.4427 E:1002922.0013	STA. 323+21.64	N: 1230963.9265 E: 1002895.9077
C81	CENTER STA. 323+24.16	PI N:1230961.4436 PI E:1002895.4829	R = 28.000	CENTER N: 1230959.2047 E: 1002923.5067
L57	STA. 323+26.67	N:1230958.9248 E:1002895.5081	STA. 330+90.73	N: 1230194.8995 E: 1002903.1454
C82	CENTER STA. 331+11.51	PI N:1230174.1250 PI E:1002903.3531	R = 25.000	CENTER N: 1230195.1494 E: 1002928.1442
C83	CENTER STA. 331+46.18	PI N:1230166.9293 PI E:1002944.2765	R = 25.000	CENTER N: 1230145.9049 E: 1002919.4854
L58	STA. 331+60.07	N:1230146.1547 E:1002944.4842	STA. 331+60.91	N: 1230145.3103 E: 1002944.4926

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX

IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056

CMT PROJECT NO: 15059-03-00

CAD DWG FILE: CMI4503-1505903-CP602.DWG

DESIGNED BY: CBG

DRAWN BY: DPA

CHECKED BY: JEF

APPROVED BY: CBG

SHEET TITLE

PERIMETER ROAD ALIGNMENT DATA TABLES 2

CP602

SHEET 29 OF 72

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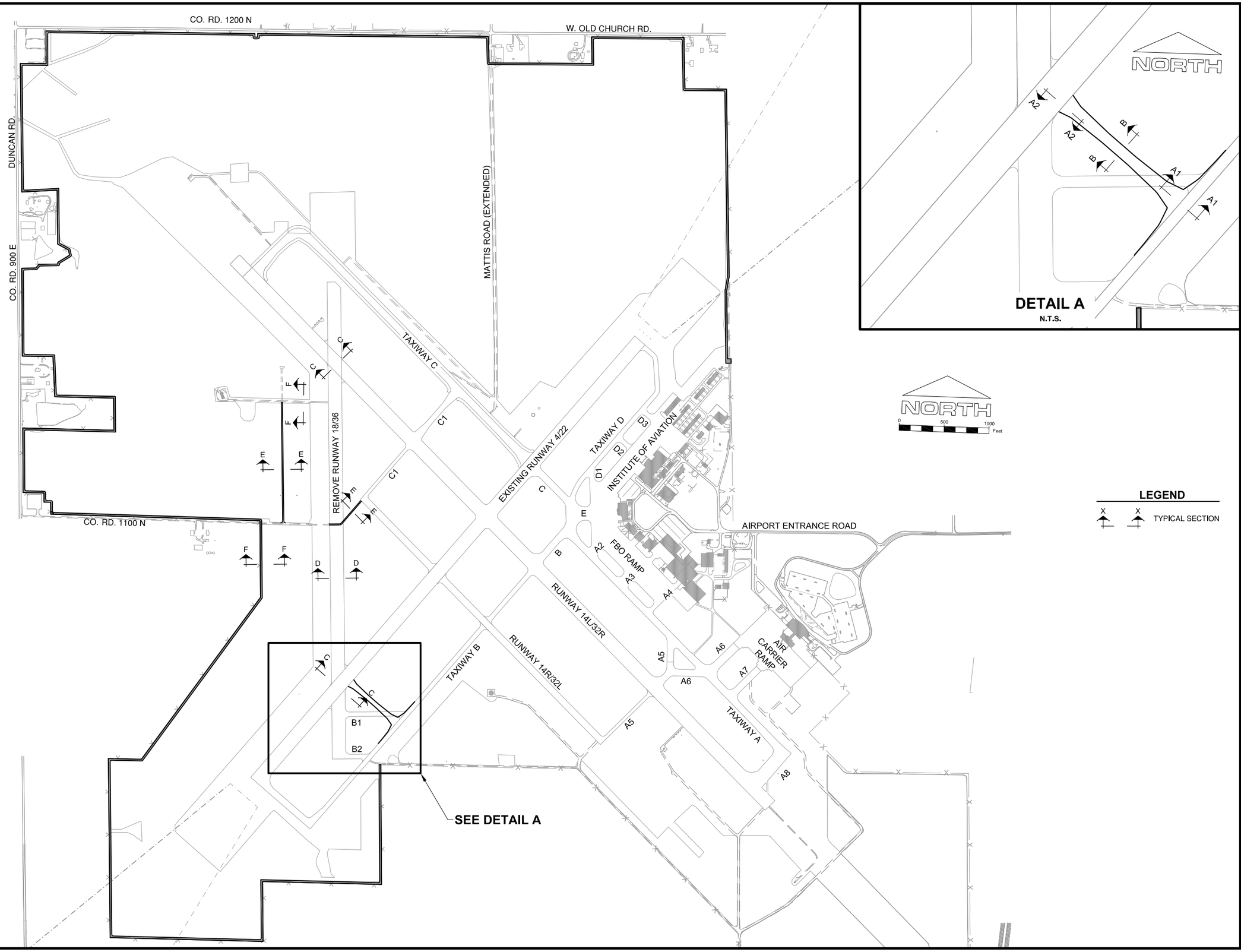

LEGEND

TYPICAL SECTION

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX

IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056

CMT PROJECT NO: 15059-03-00

CAD DWG FILE: CMI4503-1505903-CP300.DWG

DESIGNED BY: CBG

DRAWN BY: DPA

CHECKED BY: JEF

APPROVED BY: CBG

SHEET TITLE

TYPICAL SECTION INDEX

CP300

SHEET 30 OF 72

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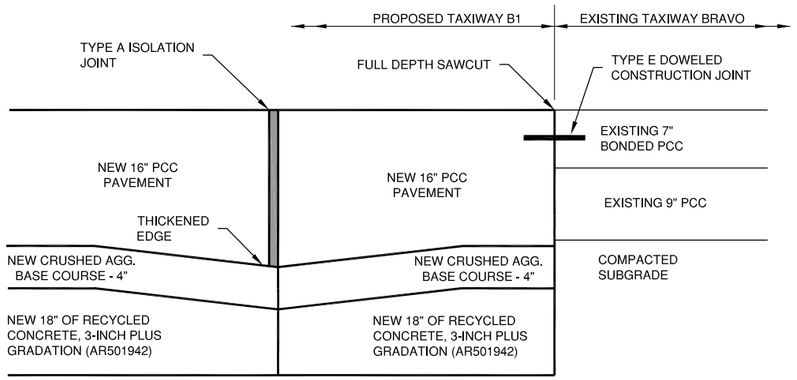

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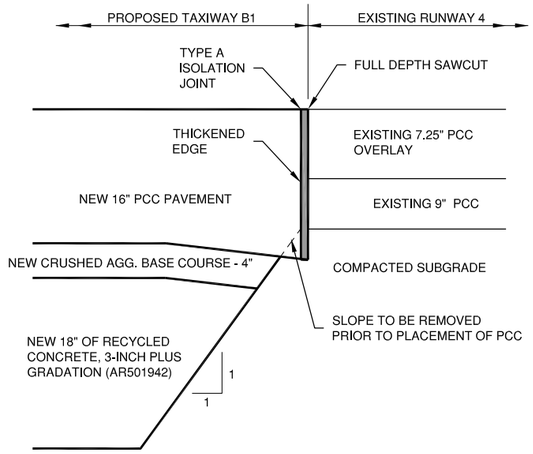
TRANSITION DETAIL
N.T.S.



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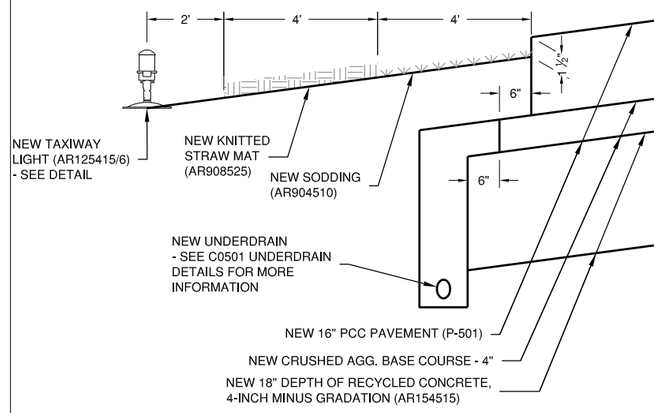
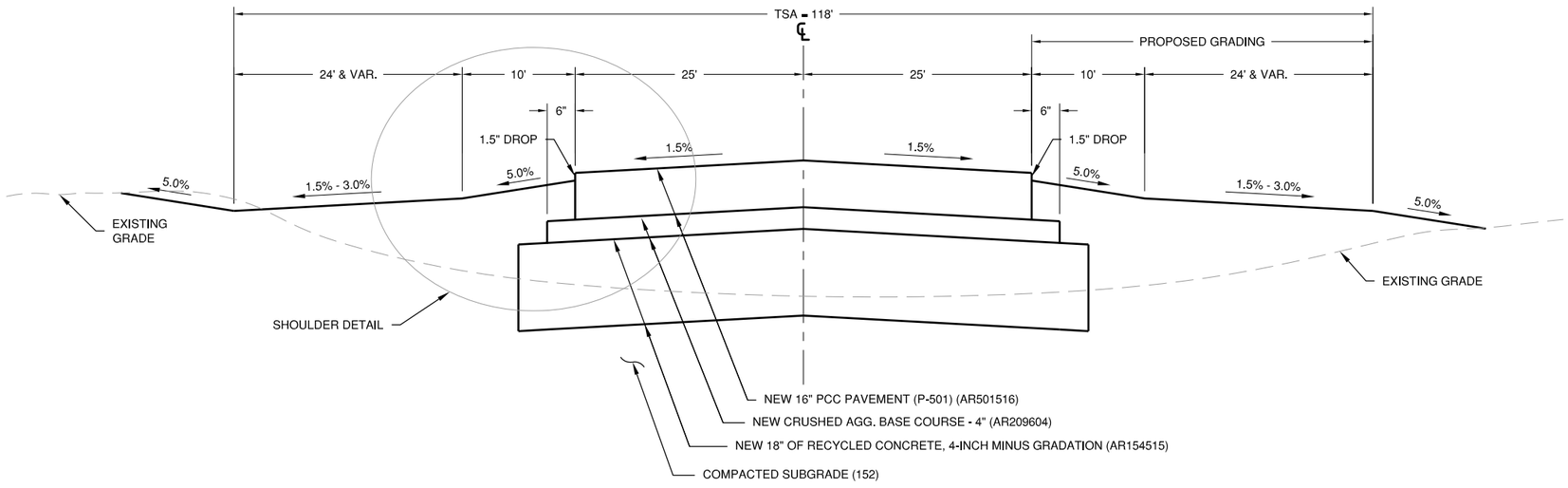
TRANSITION DETAIL
N.T.S.



SHOULDER DETAIL TYPICAL
BOTH SIDES
N.T.S.



TYPICAL SECTION B-B
NEW TAXIWAY B1
N.T.S.

CMT

License No. 184-000613

CONSULTANTS

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JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX
IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00
CAD DWG FILE: CMI4503-1505903-CP301.DWG
DESIGNED BY: CBG
DRAWN BY: DPA
CHECKED BY: JEF
APPROVED BY: CBG

SHEET TITLE
TYPICAL SECTIONS 1

CP301
SHEET 31 OF 72

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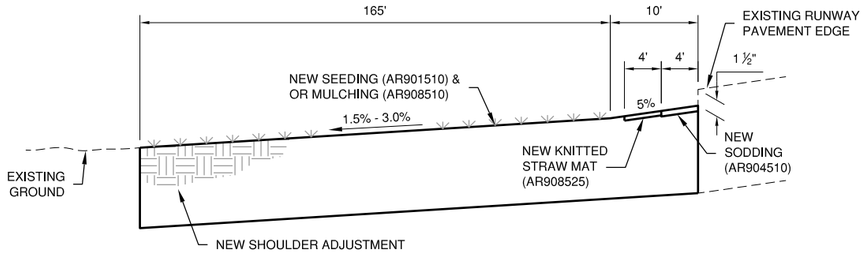
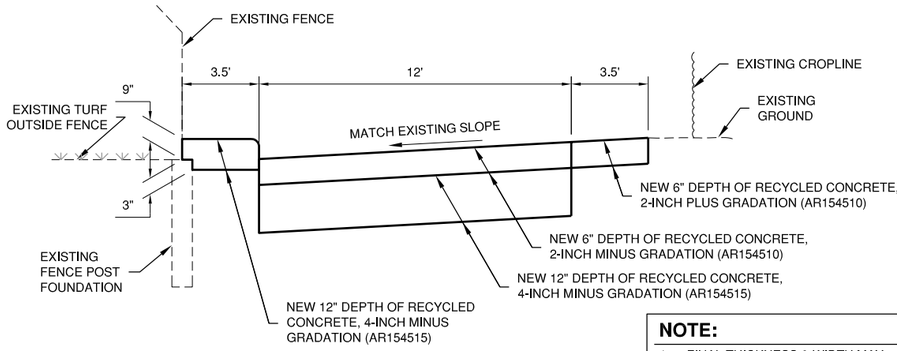


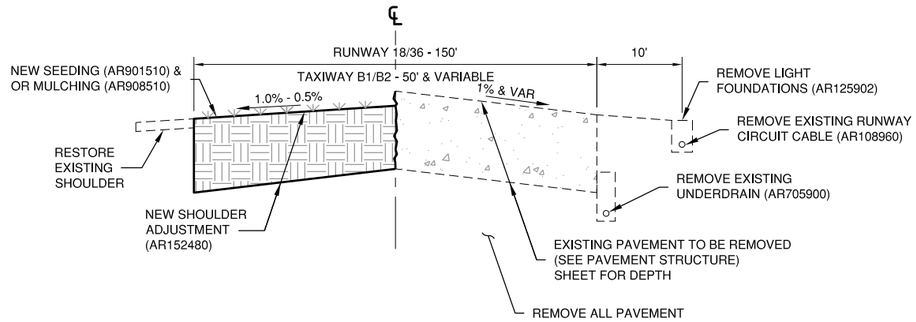
TYPICAL SECTION C-C
RUNWAY 14L & 4 GRADING DETAIL
N.T.S.



TYPICAL SECTION F-F
PERIMETER ROAD DETAIL
N.T.S.

NOTE:

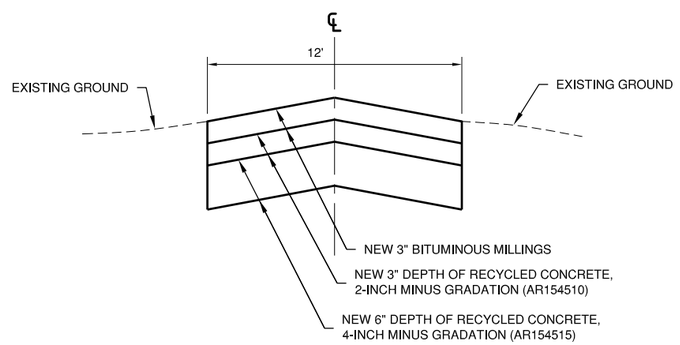
1. FINAL THICKNESS & WIDTH MAY VARY DEPENDING ON THE AVAILABILITY OF CRUSHED MATERIAL.



TYPICAL SECTION D-D
PAVEMENT REMOVAL DETAIL
N.T.S.

NOTE:

1. CROSS SLOPE OF FINISHED SECTION MAY VARY DEPENDING ON THE AVAILABILITY OF MATERIAL ON-SITE.



TYPICAL SECTION E-E
PROPOSED ACCESS ROAD
N.T.S.

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License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX

IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056

CMT PROJECT NO: 15059-03-00

CAD DWG FILE: CMI4503-1505903-CP302.DWG

DESIGNED BY: CBG

DRAWN BY: DPA

CHECKED BY: JEF

APPROVED BY: CBG

SHEET TITLE

TYPICAL SECTIONS 2

CP302

SHEET 32 OF 72

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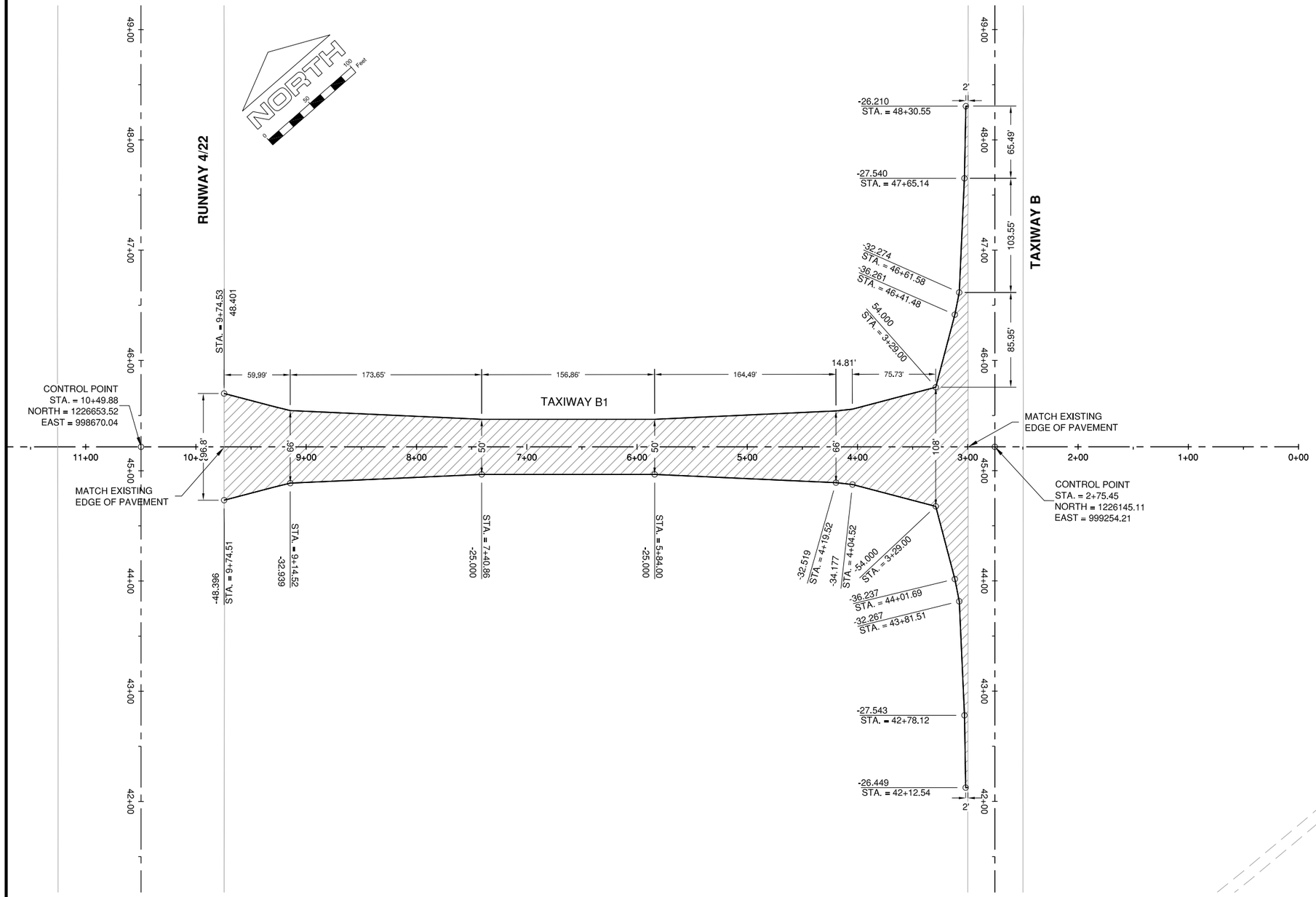
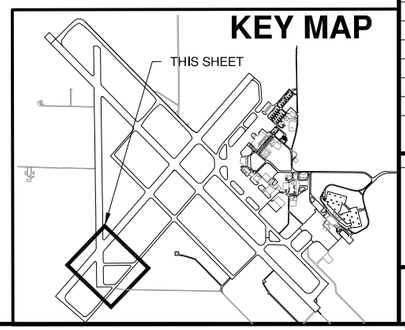


PAVEMENT LEGEND

NEW TAXIWAY PAVEMENT
NEW 16" PCC PAVEMENT (P-501)
NEW 4" CRUSHED AGGREGATE BASE COURSE (154)
NEW 18" CRUSHED PCC (154)

KEY MAP



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License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JANUARY 25, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX
IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00
CAD DWG FILE: CMI4503-1505903-CP102.DWG
DESIGNED BY: CBG
DRAWN BY: DPA
CHECKED BY: JEF
APPROVED BY: CBG

SHEET TITLE

PROPOSED IMPROVEMENTS - TAXIWAY B1

CP102

SHEET 33 OF 72

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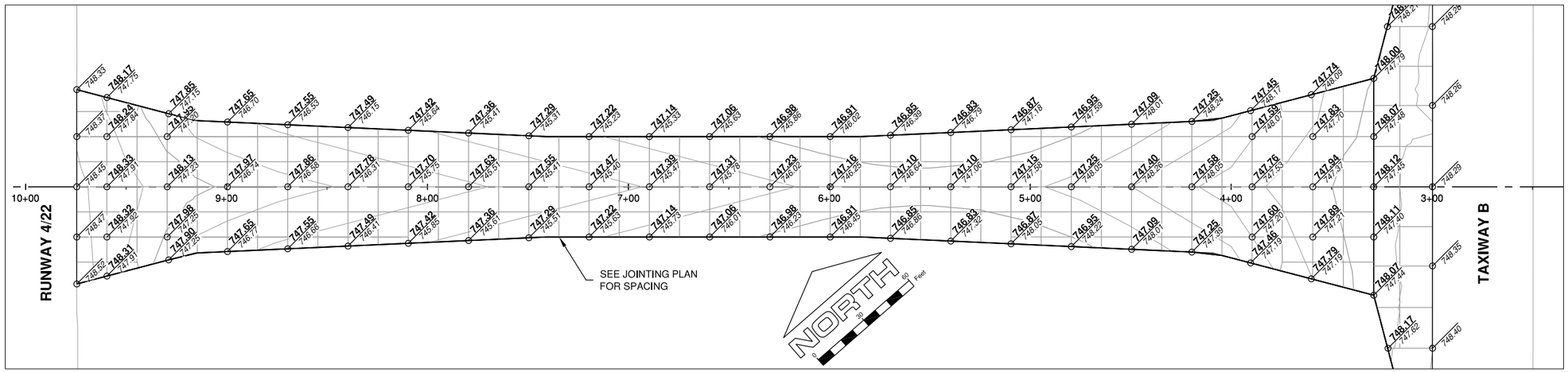
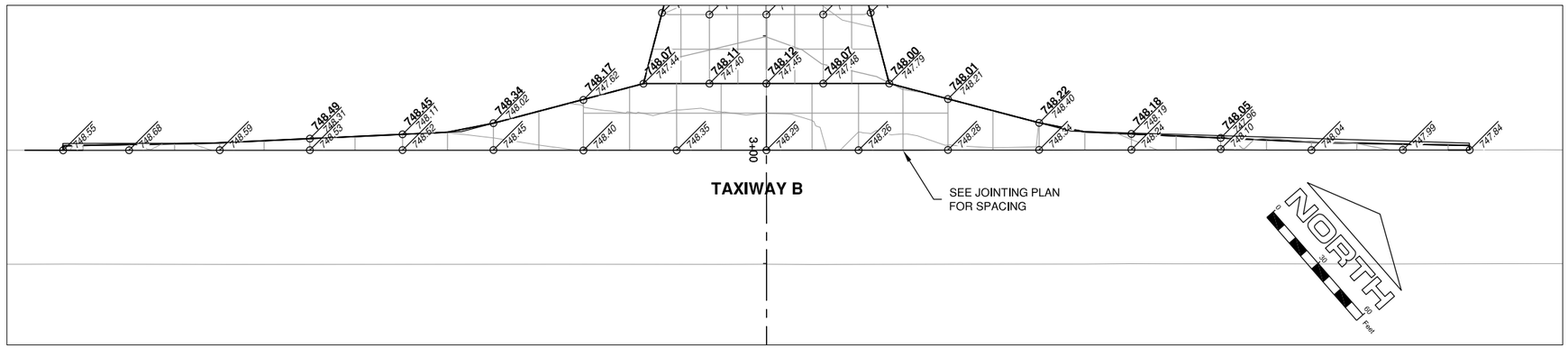
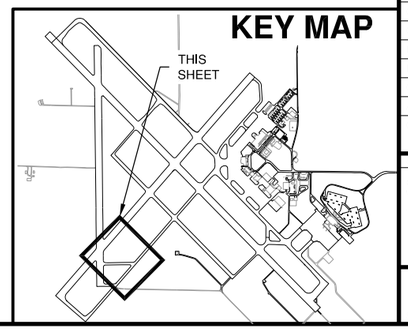




LEGEND

- 594.52 — NEW ELEVATION
- 594.77 — EXISTING ELEVATION
- 590.5 — NEW CONTOUR

KEY MAP



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License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-CP103.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

STAKING PLAN - TAXIWAY B1

CP103

SHEET 34 OF 72

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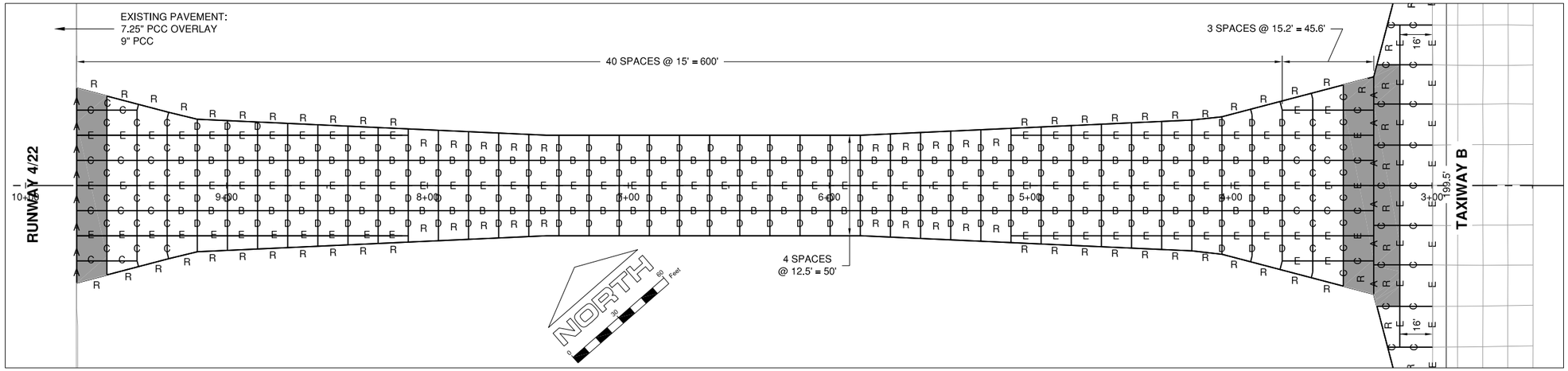
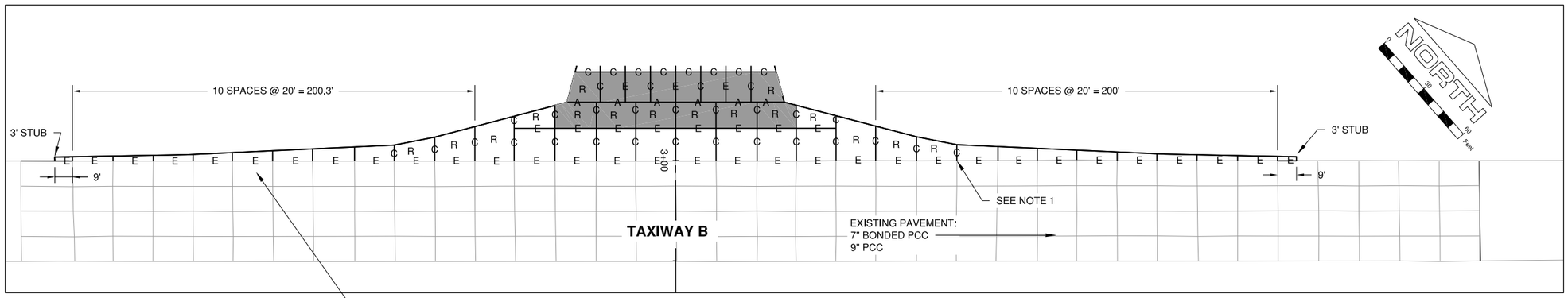
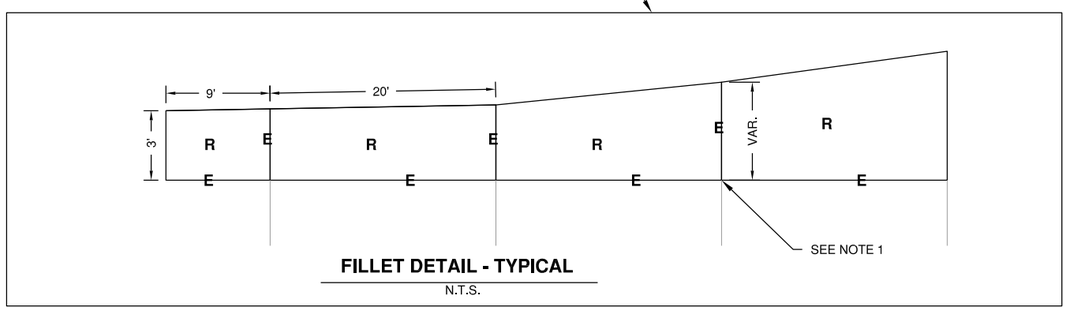






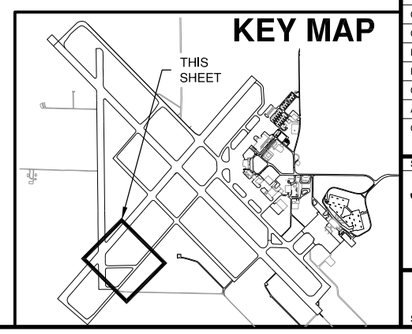
FILLET DETAIL - TYPICAL
N.T.S.

LEGEND

A	TYPE A ISOLATION JOINT (3/4")
B	TYPE B HINGED (TIED) CONTRACTION JOINT
C	TYPE C DOWELED CONTRACTION JOINT
D	TYPE D DUMMY CONTRACTION JOINT
E	TYPE E DOWELED CONSTRUCTION JOINT
	THICKENED EDGE
R	REINFORCED PANEL

NOTES:

1. MATCH EXISTING JOINT SPACING OF TAXIWAY



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JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	JOINTING PLAN.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

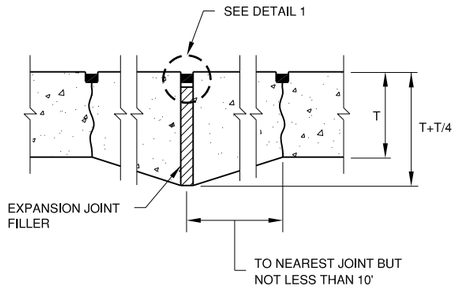
JOINTING PLAN

CJ101

SHEET 35 OF 72

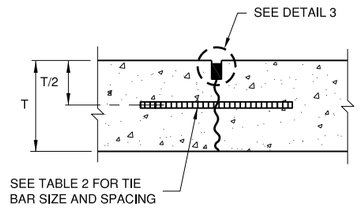
Path: K:\Champaign\Ap\15059003\Draw\Sheets\JOINTING PLAN.dwg
Date: Tuesday, June 7, 2016 4:49:31 PM

TABLE 1	
PAVEMENT THICKNESS T - INCHES	DEPTH OF CONTRACTION JOINT INITIAL SAW CUT I, INCHES I=(T/3) ±1/4"
5	1.67"
6	2.00"
7	2.33"
8	2.67"
9	3.00"
10	3.33"
11	3.67"
12	4.00"
13	4.33"
14	4.67"
15	5.00"
16	5.33"
17	5.67"
18	6.00"



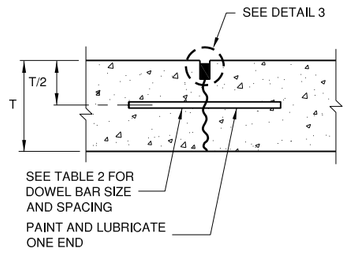
TYPE A THICKENED ISOLATION

SYMBOL A



TYPE B HINGED (TIED) CONTRACTION

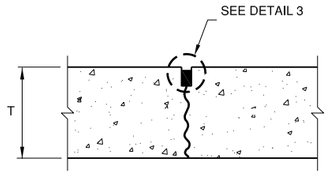
SYMBOL B



TYPE C DOWELED CONTRACTION

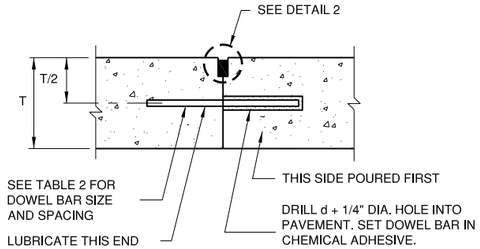
SYMBOL C

TABLE 2						
PAVEMENT THICKNESS T - INCHES	DOWEL BAR DETAILS			TIE BAR DETAILS		
	DIA.	LENGTH	SPACING	BAR SIZE	LENGTH	SPACING
6	3/4"	18"	12" O.C.	#5	30"	30" O.C.
7	3/4"	18"	12" O.C.	#5	30"	30" O.C.
8	1"	19"	12" O.C.	#5	30"	30" O.C.
9	1"	19"	12" O.C.	#5	30"	30" O.C.
10	1"	19"	12" O.C.	#5	30"	30" O.C.
11	1"	19"	12" O.C.	#5	30"	30" O.C.
12	1"	19"	12" O.C.	#5	30"	30" O.C.
13	1 - 1/4"	20"	15" O.C.	#5	30"	30" O.C.
14	1 - 1/4"	20"	15" O.C.	#5	30"	30" O.C.
15	1 - 1/4"	20"	15" O.C.	#5	30"	30" O.C.
16	1 - 1/4"	20"	15" O.C.	#5	30"	30" O.C.
17	1 - 1/2"	20"	18" O.C.	#5	30"	30" O.C.
18	1 - 1/2"	20"	18" O.C.	#5	30"	30" O.C.



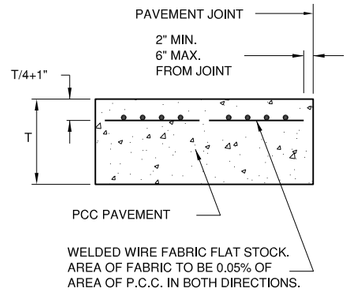
TYPE D DUMMY CONTRACTION

SYMBOL D



TYPE E DOWELED CONSTRUCTION

SYMBOL E



ODD SHAPED PANEL REINFORCEMENT

SYMBOL R

JOINT SEALING DIMENSIONS			
	DETAIL 1	DETAIL 2	DETAIL 3
W=WIDTH OF SEALANT RESERVOIR (IN.)	3/4	1/2	1/2
D=DEPTH OF SEALANT RESERVOIR (IN.)	3/8	1/4	1/4
B=BACKER ROD DIAMETER (IN.)	N/A	5/8	5/8
S=SECOND SAWCUT DEPTH (IN.) MINIMUM	N/A	1-1/8	1-1/8

JOINT NOTES

1.) ALL EDGES OF NEW SLABS, FREE STANDING OR CLOSURE, SHALL BE EDGED WITH AN APPROVED TOOL HAVING A RADIUS OF 1/8" TO 1/4" TO FACILITATE SAWING OF THE SEALANT RESERVOIR. A RADIUS > 1/4" WILL NOT BE ACCEPTABLE.

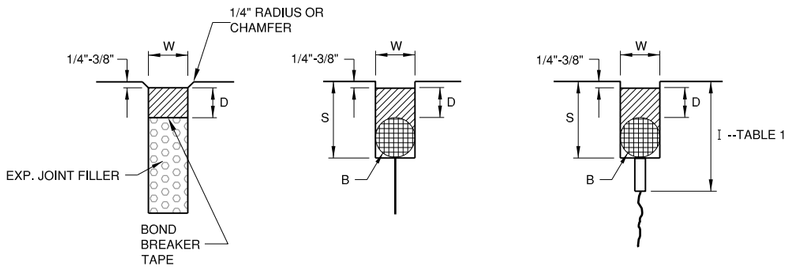
2.) THE INITIAL SAWCUT FOR ALL LONGITUDINAL & TRANSVERSE CONTRACTION JOINTS SHALL BE SAWED AS SOON AS POSSIBLE AFTER PLACEMENT OF THE PAVEMENT.

3.) ALL TIE BARS & MESH SHALL BE SECURELY HELD IN PLACE BY SUPPORT PINS OR OTHER APPROVED METHODS TO PREVENT SHIFTING DURING & AFTER CONCRETE PLACEMENT.

4.) TIE BARS SHALL BE DEFORMED BARS IN CONFORMANCE WITH THE SPECIFICATIONS.

5.) THE INITIAL SAWCUT SHALL BE MADE TO THE 1/8" WIDTH INDICATED. INITIAL SAWING TO THE DIMENSIONS OF THE SECOND SAWCUT WILL NOT BE ALLOWED.

JOINT SEALING DETAILS



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JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-CJ501.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG
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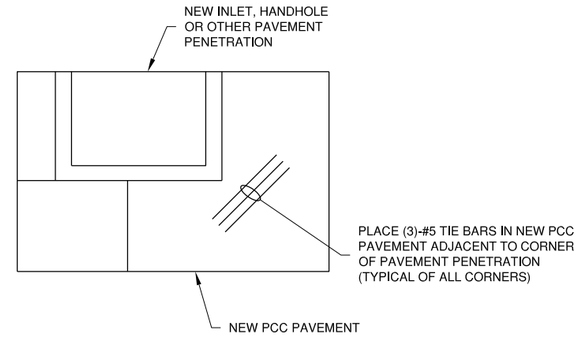
SHEET TITLE

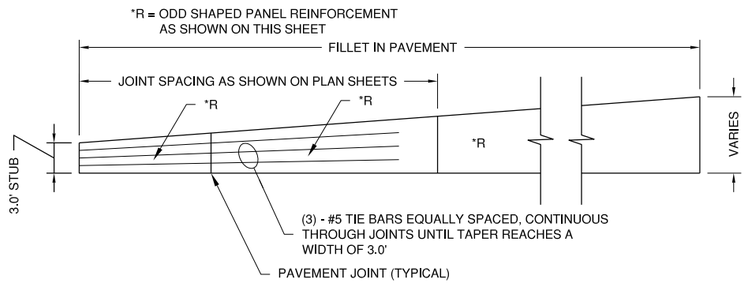
JOINTING DETAILS

CJ501

SHEET 36 OF 72

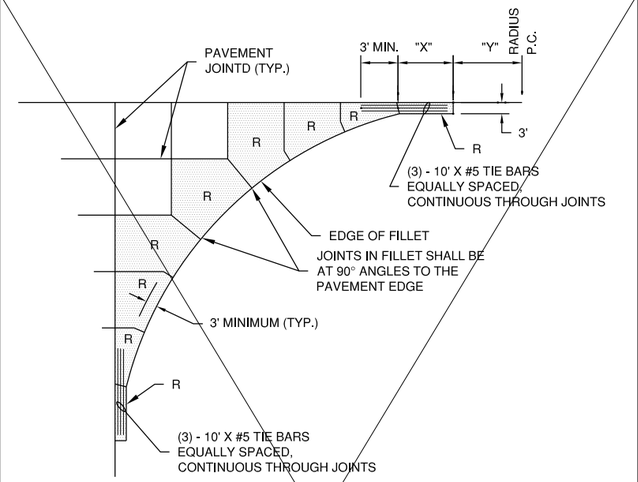


PAVEMENT PENTRATION DETAIL
N.T.S.



*UNLESS NOTED OTHERWISE

PAVEMENT JOINT TAPER DETAIL
N.T.S.

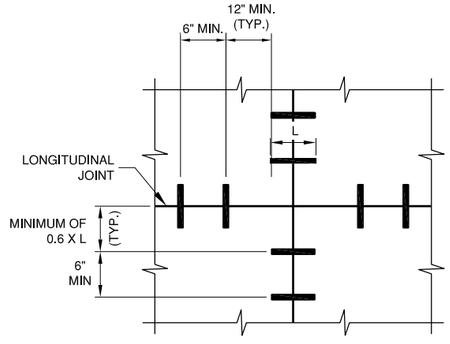


(R) DENOTES ODD SHAPED REINFORCED PANELS TO BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN ON JOINTING DETAILS SHEET. ALL NON RECTANGULAR SHAPED PANELS SHALL BE REINFORCED. (REINFORCEMENT NOT SHOWN)

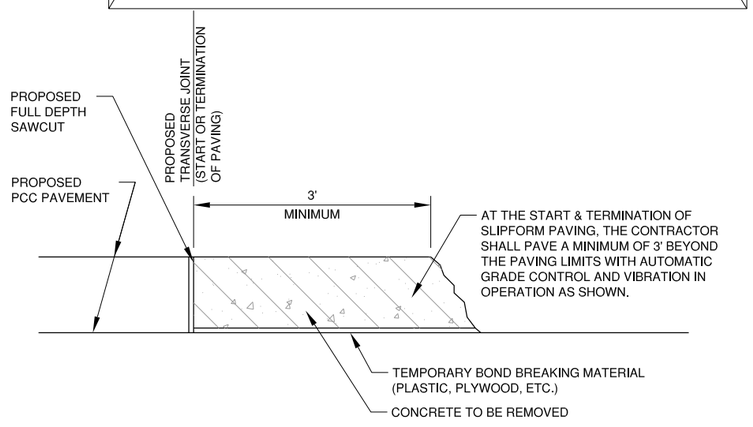
FILLET RADIUS	"X" (IN FEET)	"Y" (IN FEET)
20	4.30	6.24
25	4.88	7.00
30	5.40	7.68
50	7.11	9.95
75	8.79	12.21
85	9.38	13.00
100	10.21	14.11
125	11.44	15.78
150	12.56	17.29
175	13.58	18.68
200	14.53	19.98

FILLET DETAIL & FILLET REINFORCING LAYOUT
N.T.S.

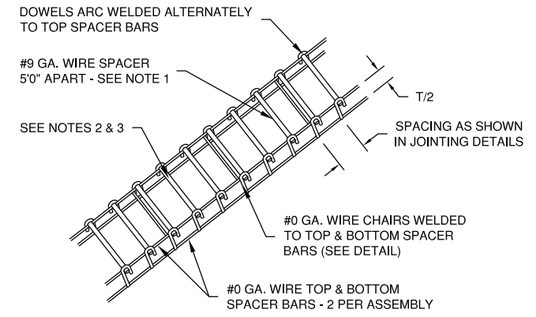
N.I.C.



DOWEL PLACEMENT DETAIL
N.T.S.



REQUIREMENTS AT START & TERMINATION OF SLIPFORM PAVING
N.T.S.



DOWEL BASKET ASSEMBLY DETAIL
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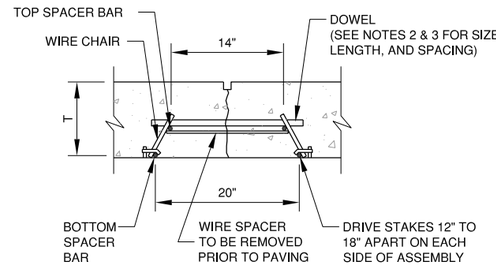
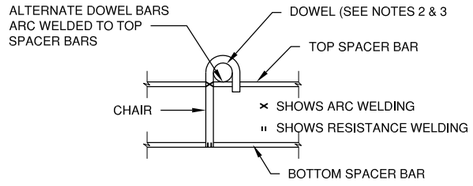


DOWEL BAR INSTALLATION DETAIL
N.T.S.



TYPICAL DOWEL BASKET ELEVATION DETAIL SHOWING CHAIR
N.T.S.

DOWEL BASKET DETAILS
N.T.S.

DOWEL BASKET NOTES

1. #9 GA. WIRE SPACER BAR ARC WELDED TO THE BOTTOM OF TOP SPACER BAR. (MAY BE MECHANICALLY ATTACHED IN LIEU OF WELDING) 3 REQUIRED PER UNIT. THIS WIRE MUST BE CUT OR REMOVED PRIOR TO PAVING.
2. DOWEL BAR DIAMETER, LENGTH & SPACING SHALL BE AS SHOWN IN TABLE 2.
3. DOWELS SHALL BE EPOXY COATED FULL LENGTH OF DOWEL. BEFORE DELIVERY TO THE CONSTRUCTION SITE, THE FREE END OF EACH DOWEL SHALL BE LUBRICATED OR OILED FOR HALF THE LENGTH OF THE DOWEL.

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JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX
IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00
CAD DWG FILE: CMI4503-1505903-CJ502.DWG
DESIGNED BY: CBG
DRAWN BY: DPA
CHECKED BY: JEF
APPROVED BY: CBG

SHEET TITLE
PAVING & MISCELLANEOUS DETAILS

CJ502
SHEET 37 OF 72

LEGEND

- EXISTING UNDERDRAIN
- EXISTING STORM SEWER
- EXISTING INLET
- EXISTING MANHOLE
- PROPOSED CLEANOUT
- PROPOSED UNDERDRAIN

EIN - 1
STA 5+20.18 O/S -298.23' L
RIM EL 745.61
15" I.E. = 741.07 OUT NE

EXISTING RCP
15" CIRCULAR @ 0.23%

EMH-1
STA 5+50.99 O/S -129.86' L
RIM EL 747.82
15" I.E. = 740.68 IN SW
15" I.E. = 740.68 OUT NE
TO BE REMOVED

TAXIWAY B1

NEW IN-1
STA 5+60.35 O/S -81.19' L
RIM EL 744.77

CO-2

UD-3

DC-1

UD-2
T-1

UD-1

CO-1

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+

NEW TAXIWAY B1

TAXIWAY B

UD-6

UD-4

CO-4

DC-2

UD-5
T-2

CO-3

RUNWAY 4/22

DIRECT CONNECT UNDERDRAIN
TO EXISTING 15" PIPE

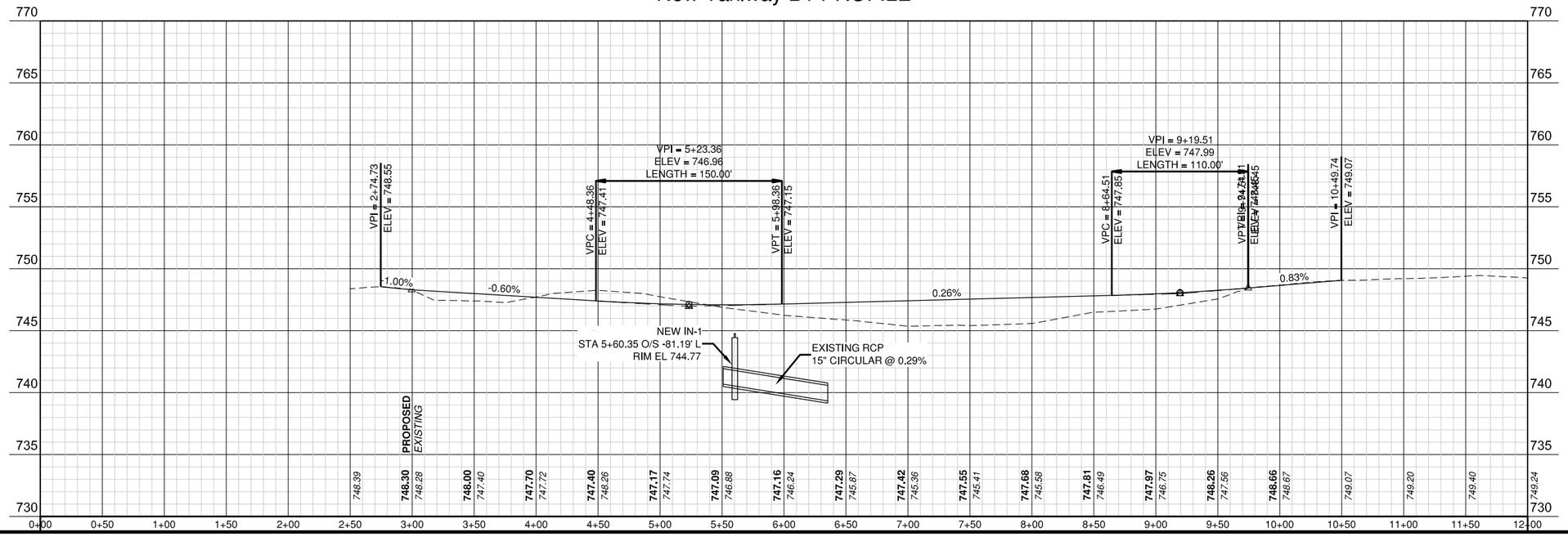
NEW 4" PERFORATED UNDERDRAIN
W/ SOCK-AR 705524-1300 LF

EXISTING RCP
15" CIRCULAR @ 0.29%

EIN-2
STA 6+35.29 O/S 331.37' R
RIM EL 743.70
15" I.E. = 739.34 IN SW

NORTH

New Taxiway B1 PROFILE



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IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO:	15059-03-00
CAD DWG FILE:	CMI4503-1505903-CI200.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

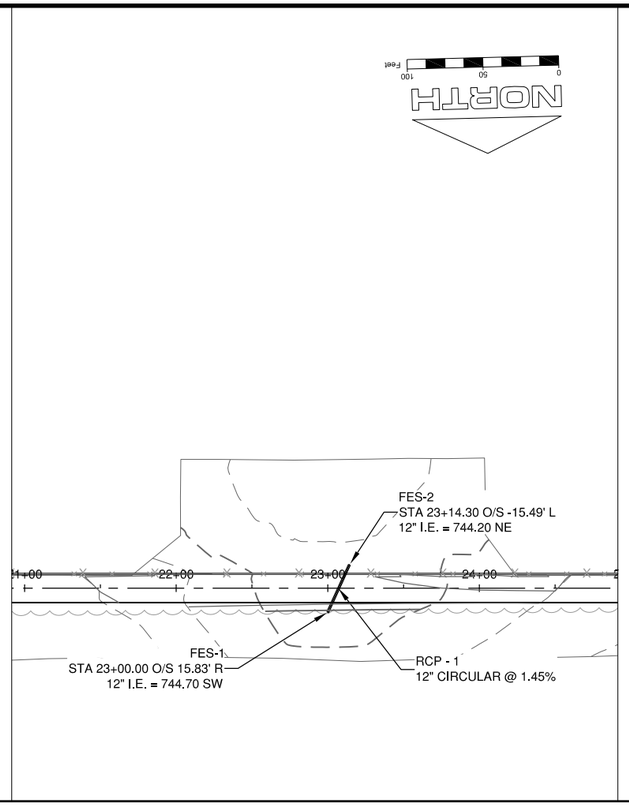
SHEET TITLE

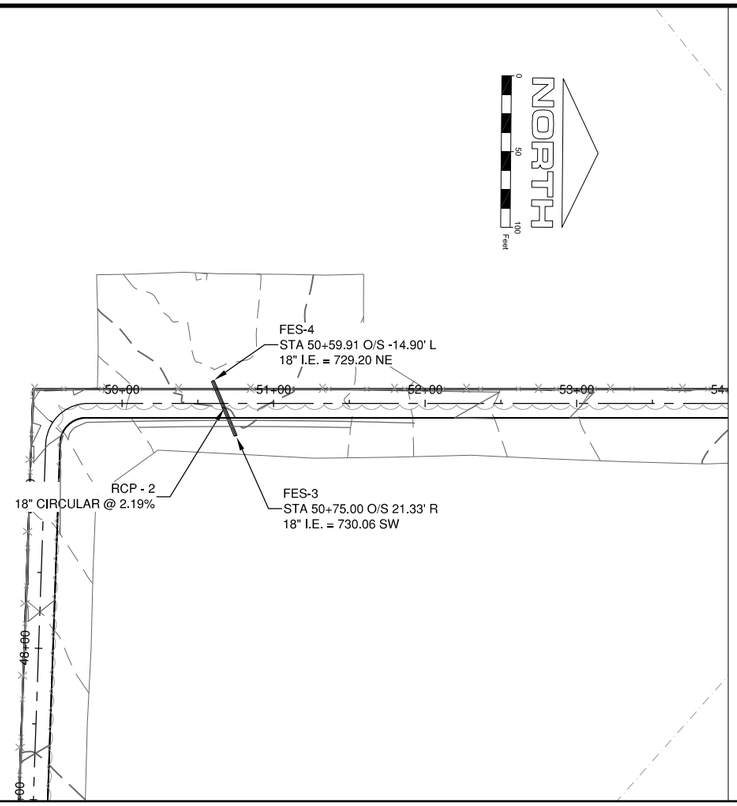
TAXIWAY B1 PLAN & PROFILE & DRAINAGE STRUCTURES

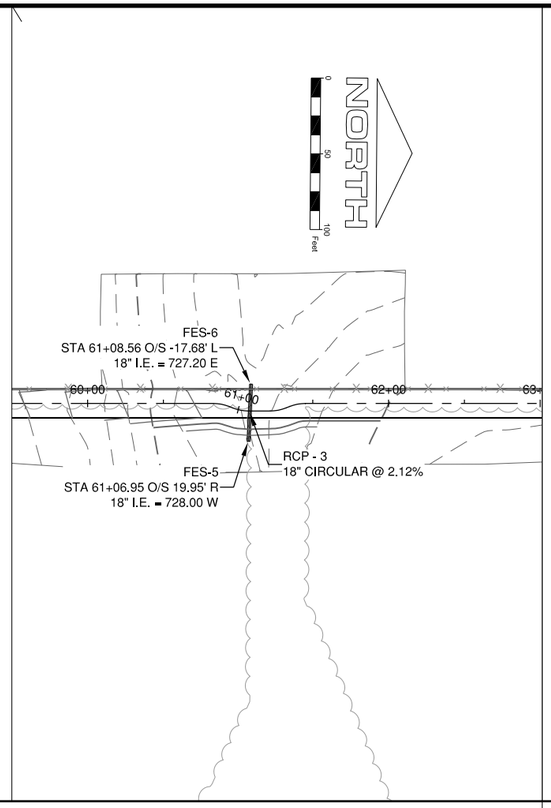
CI200

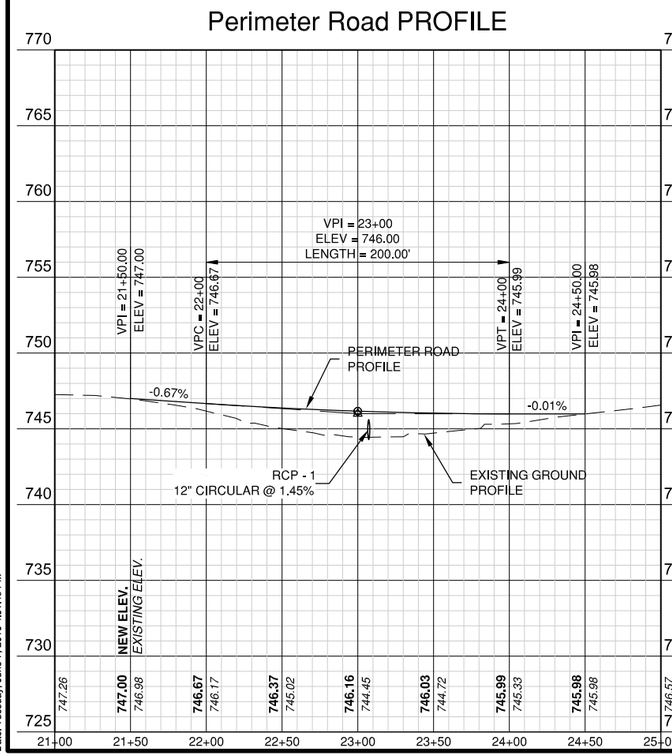
SHEET 38 OF 72

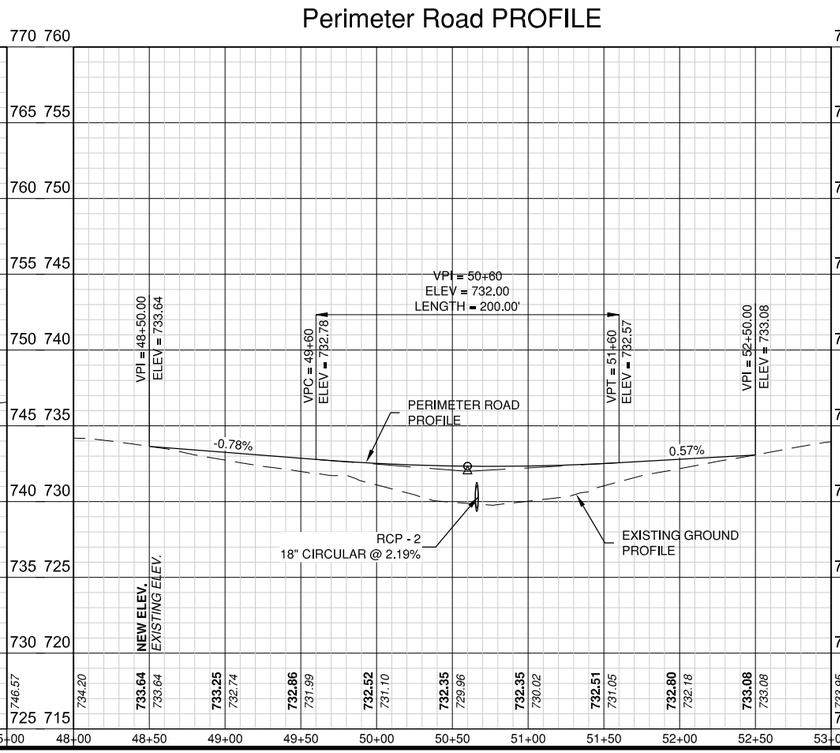
Path: K:\Champaign\Ap1505903\Draw Sheets\CMI4503-1505903-CI200.dwg
Date: Tuesday, June 7, 2016 4:50:56 PM

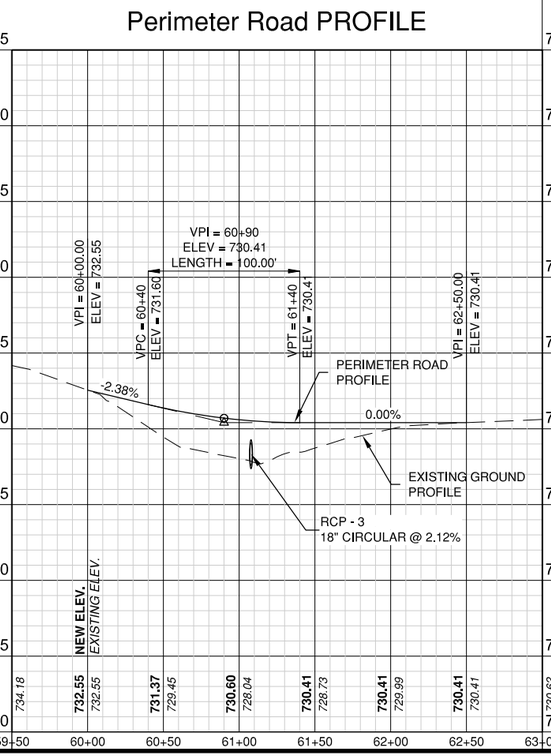












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CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

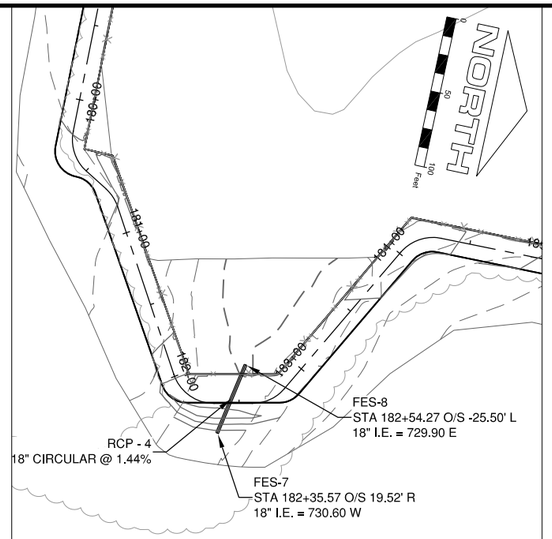
AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO:	15059-03-00
CAD DWG FILE:	1505903-C-SPCR-PERIM.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

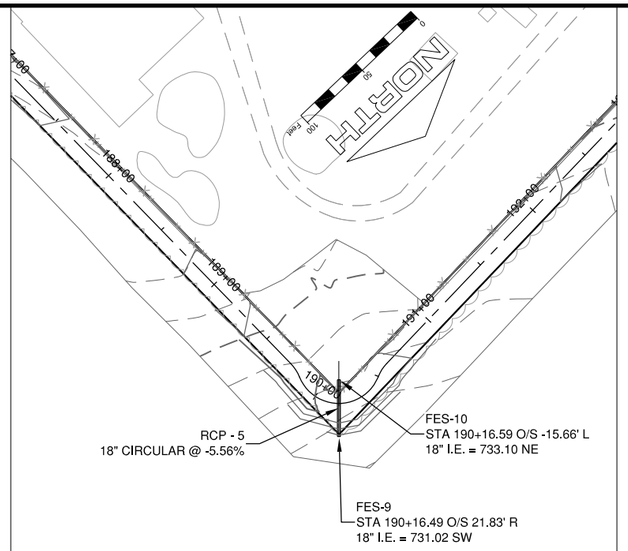
SHEET TITLE

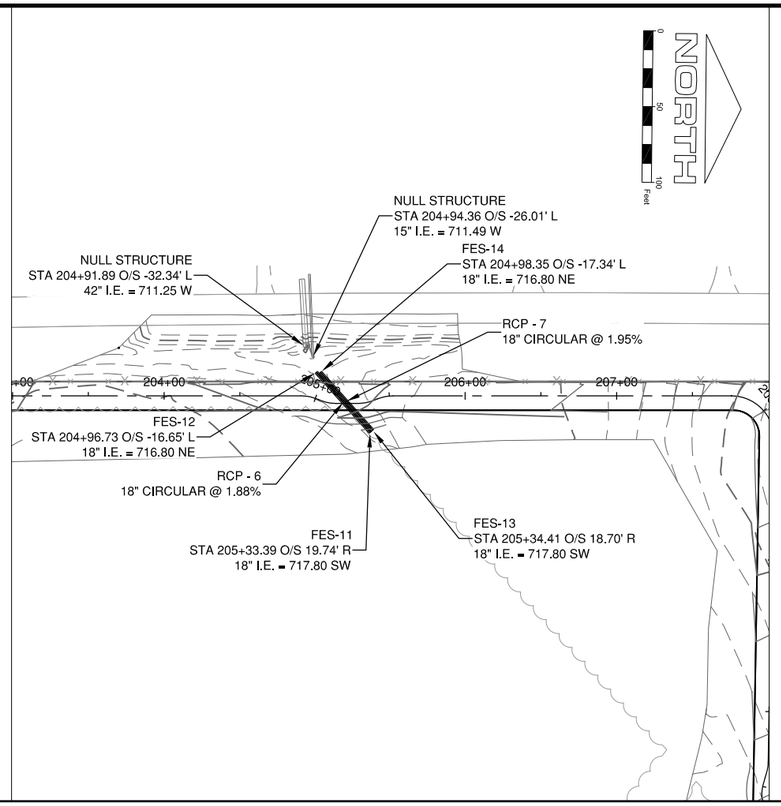
PERIMETER PROFILE - 1

CI201

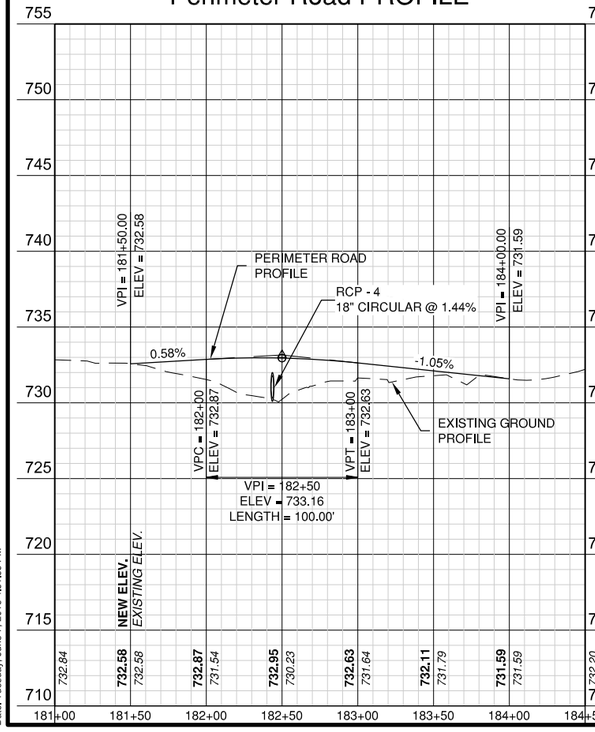
SHEET 39 OF 72



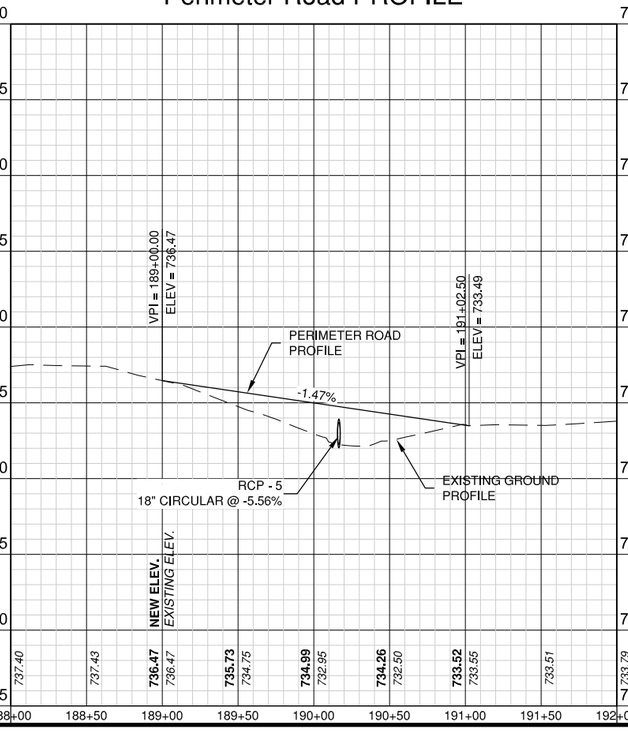




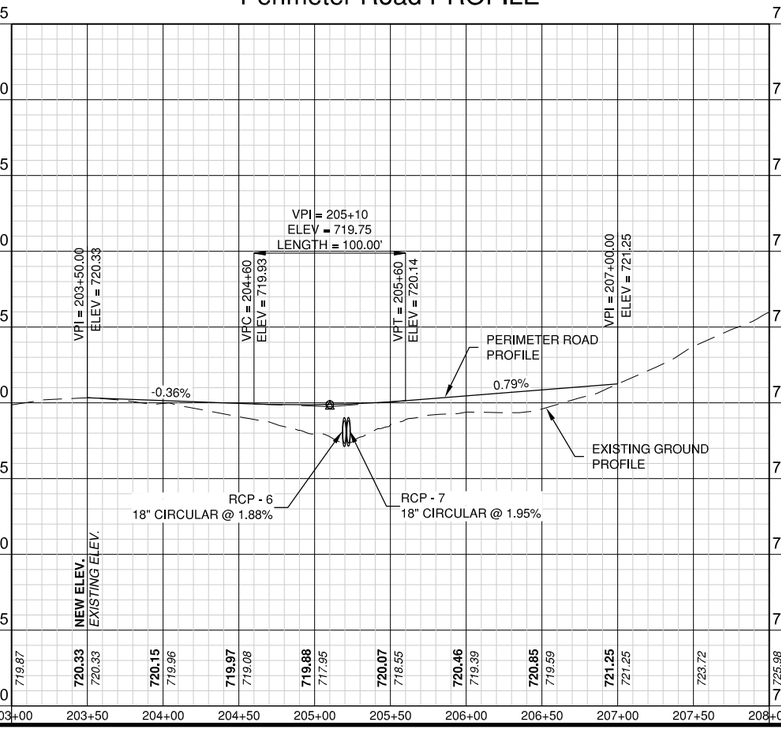
Perimeter Road PROFILE



Perimeter Road PROFILE



Perimeter Road PROFILE



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OWNER

CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO:	15059-03-00
CAD DWG FILE:	1505903-C-SPCR-PERIM.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG
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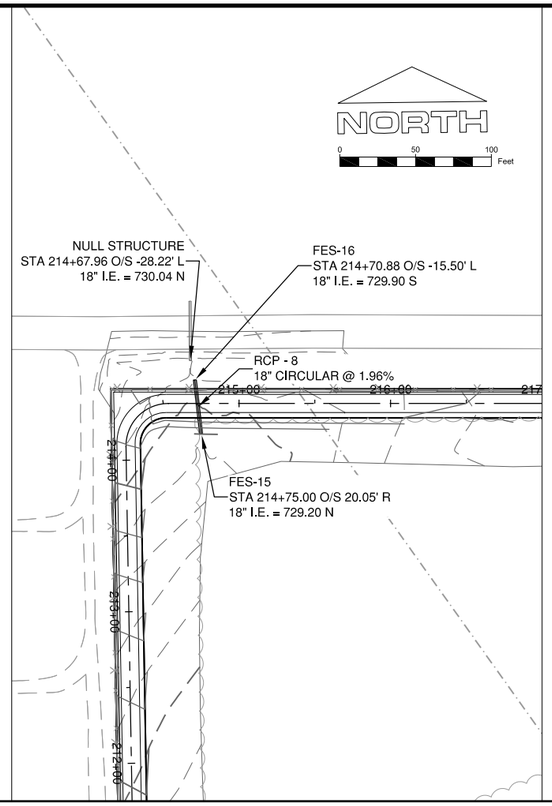
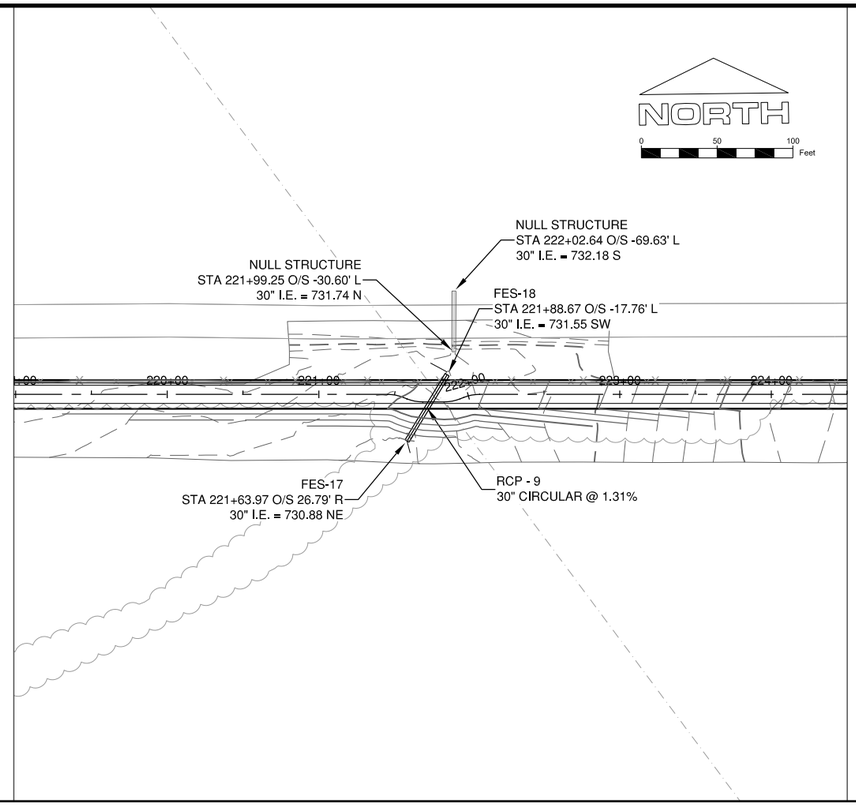
SHEET TITLE

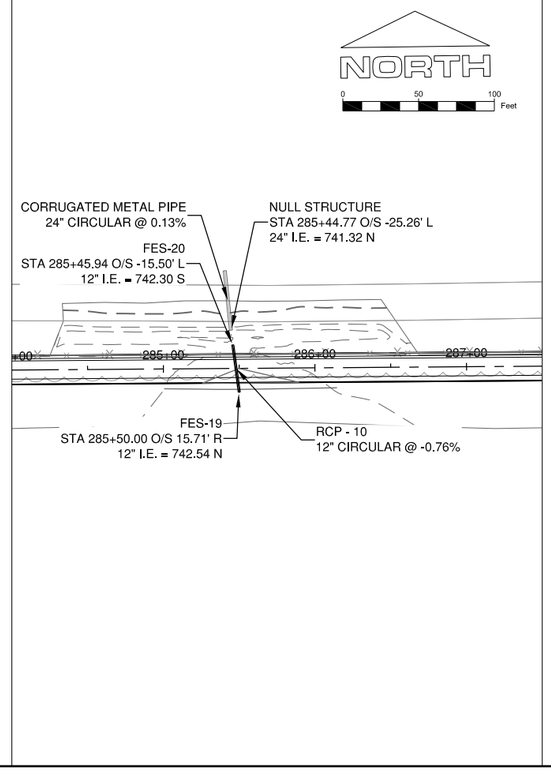
PERIMETER PROFILE - 2

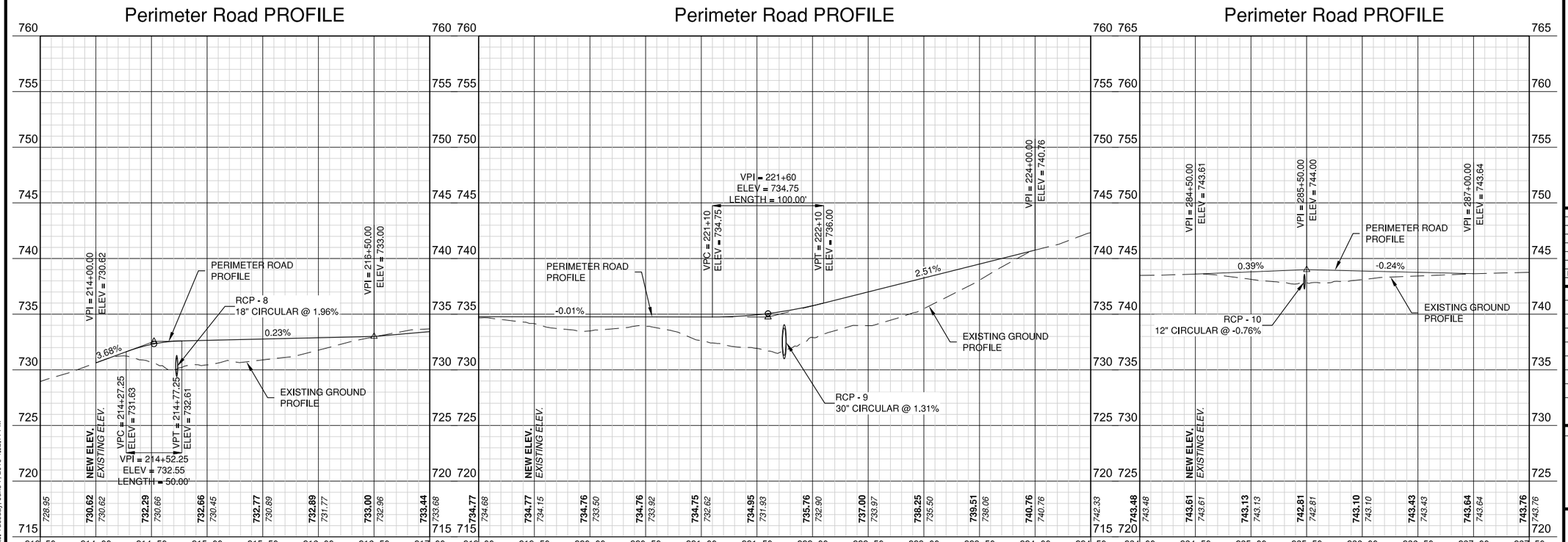
CI202

SHEET 40 OF 72









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REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO:	15059-03-00
CAD DWG FILE:	1505903-C-SPCR-PERIM.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG
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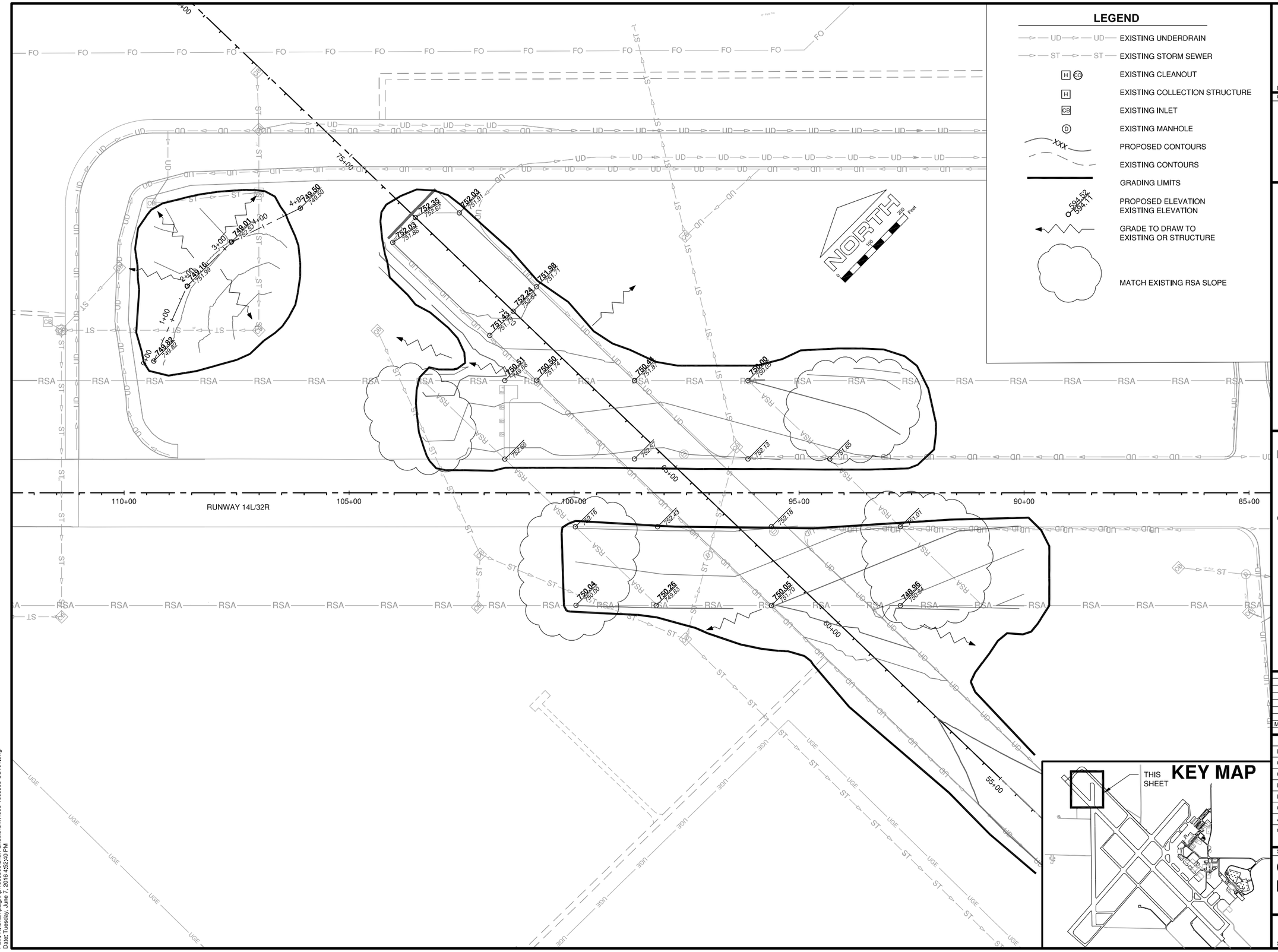
SHEET TITLE

PERIMETER PROFILE - 3

CI203

SHEET 41 OF 72



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JUNE 3, 2016

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OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX

IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056

CMT PROJECT NO: 15059-03-00

CAD DWG FILE: CMI4503-1505903-CU101.DWG

DESIGNED BY: CBG

DRAWN BY: DPA

CHECKED BY: JEF

APPROVED BY: CBG

SHEET TITLE

GRADING & DRAINAGE PLAN 1

CU101

SHEET 42 OF 72

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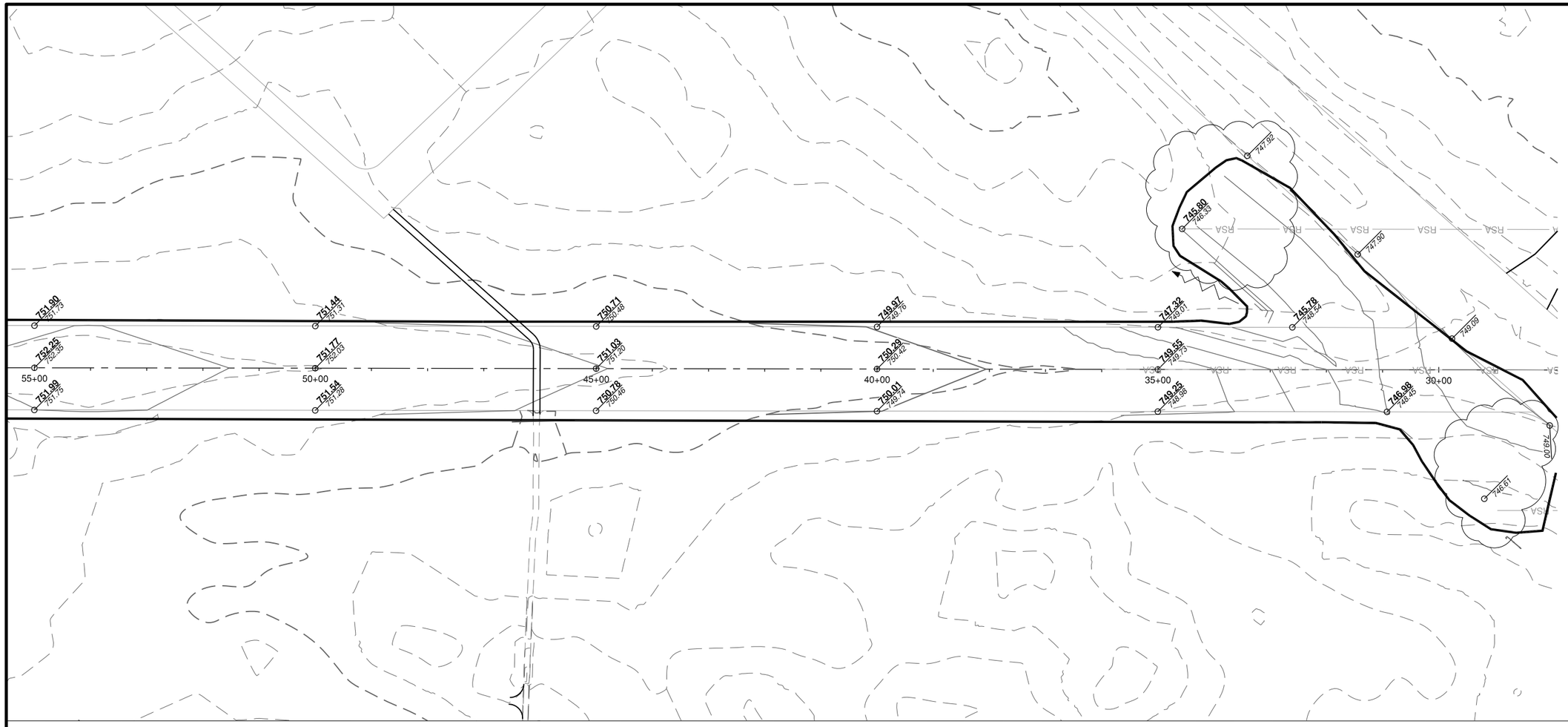
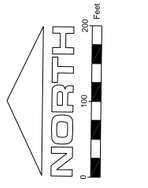
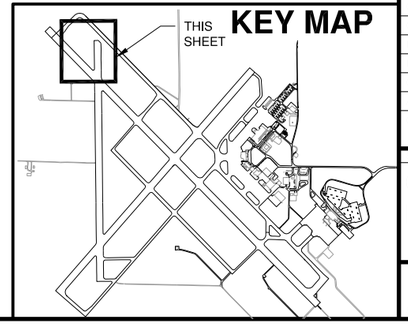




LEGEND

- UD — UD — EXISTING UNDERDRAIN
- ST — ST — EXISTING STORM SEWER
- H CO — EXISTING CLEANOUT
- H — EXISTING COLLECTION STRUCTURE
- CB — EXISTING INLET
- D — EXISTING MANHOLE
- XXX — PROPOSED CONTOURS
- EXISTING CONTOURS
- GRADING LIMITS
- 594.52 / 594.17 — PROPOSED ELEVATION / EXISTING ELEVATION
- GRADE TO DRAW TO EXISTING OR STRUCTURE
- MATCH EXISTING RSA SLOPE



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REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX

IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056

CMT PROJECT NO: 15059-03-00

CAD DWG FILE: CMI4503-1505903-CU102.DWG

DESIGNED BY: CBG

DRAWN BY: DPA

CHECKED BY: JEF

APPROVED BY: CBG

SHEET TITLE

GRADING & DRAINAGE PLAN 2

CU102

SHEET 43 OF 72

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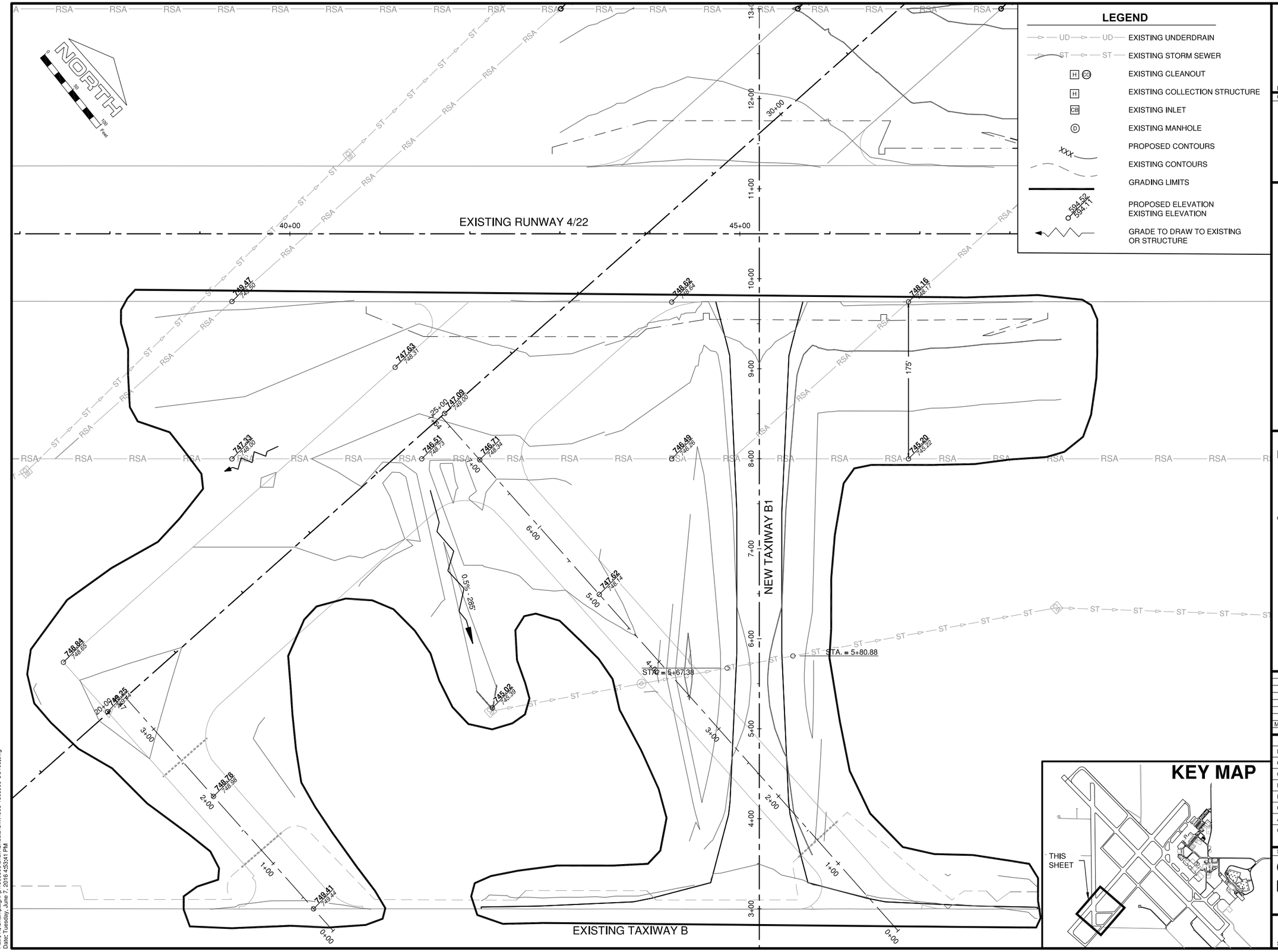

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JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

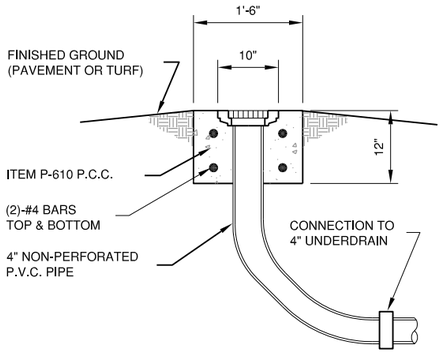
AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-CU103.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

GRADING & DRAINAGE PLAN 3

CU103

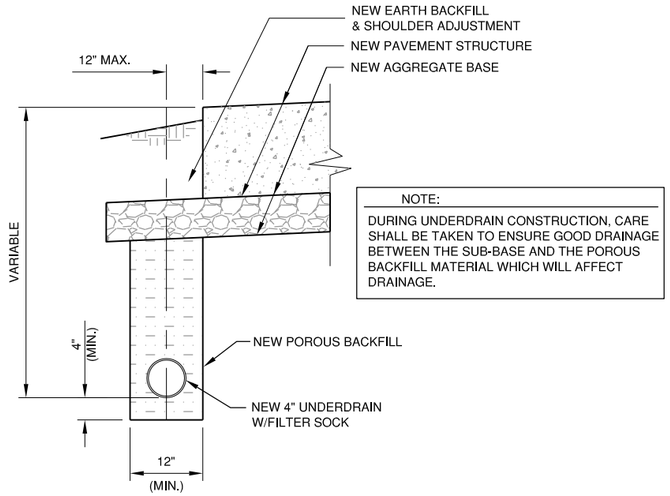
SHEET 44 OF 72



SIDE VIEW

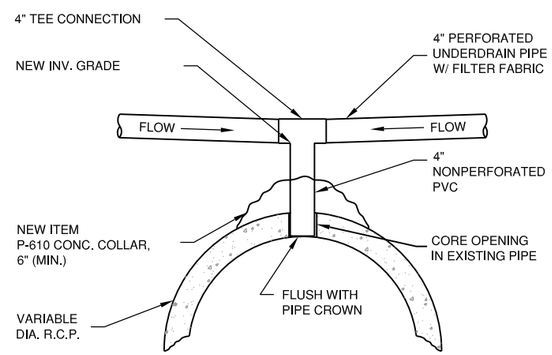
UNDERDRAIN CLEAN-OUT DETAIL - TYPE 1

N.T.S.



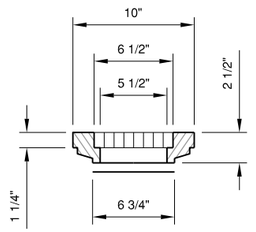
TYPICAL UNDERDRAIN DETAIL
PAVEMENT EDGE

N.T.S.



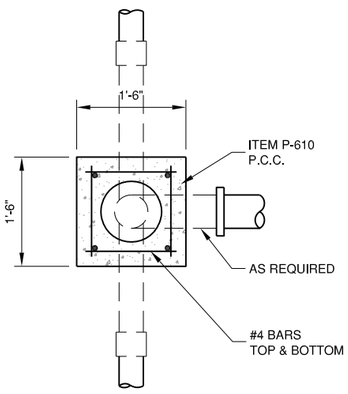
UNDERDRAIN DIRECT TOP CONNECTION DETAIL

N.T.S.

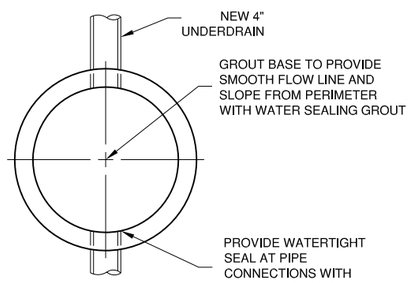


CAST IRON FRAME & COVER
(SIMILAR TO NEENAH R-6013 OR
APPROVED EQUAL)

FRAME & LID



PLAN

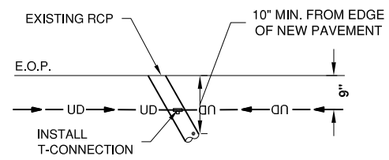


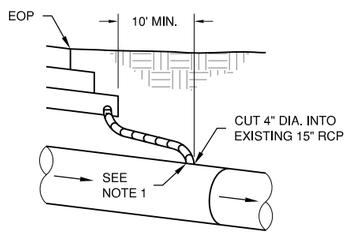
PLAN

UNDERDRAIN CLEAN-OUT DETAILS

N.T.S.

NOTE: CONNECT NEW UNDERDRAIN TO EXISTING RCP A MINIMUM OF 10' FROM EDGE OF NEW PAVEMENT SO AS NOT TO UNDERMINE EDGE OF NEW PAVEMENT.





NOTE:

1. DIRECT CONNECTION SHALL BE INSTALLED A MINIMUM OF 5' FROM ANY EXISTING PIPE JOINT

UNDERDRAIN DIRECT
CONNECTION DETAIL

N.T.S.

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CONSULTANTS

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JUNE 3, 2016

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OWNER

CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

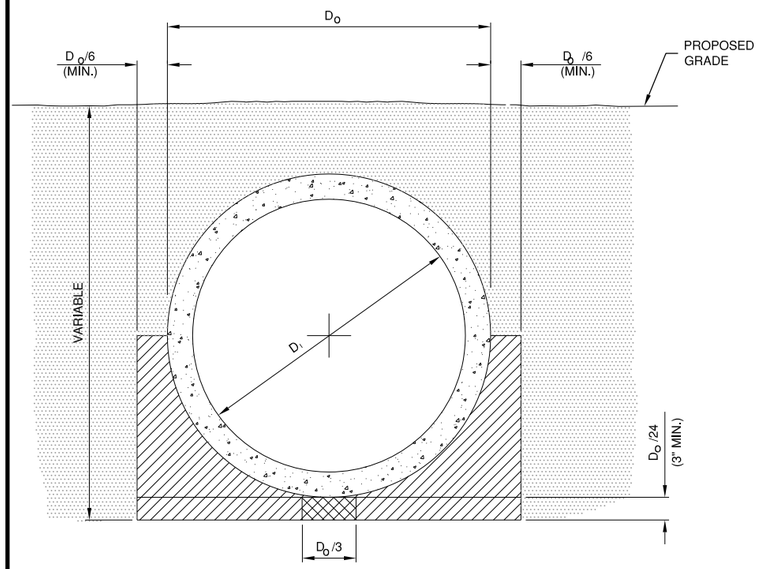
AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-CU501.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

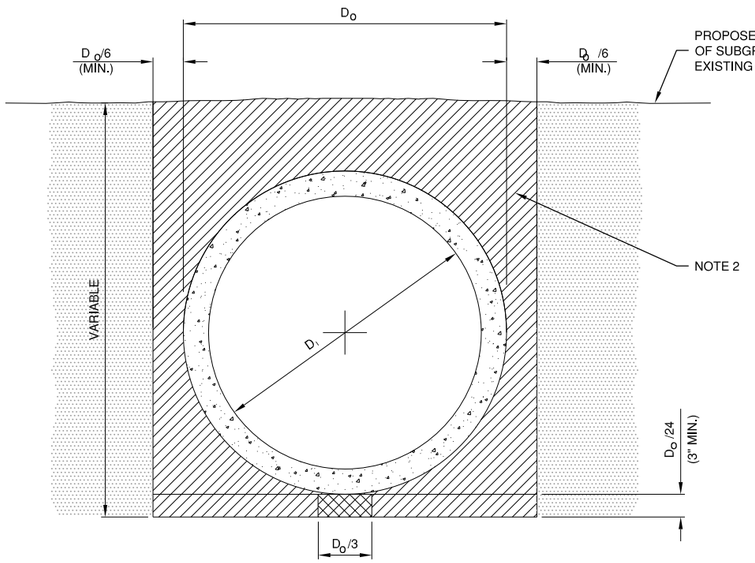
UNDERDRAIN DETAILS

CU501

SHEET 45 OF 72



STANDARD TRENCH INSTALLATION
NON-PAVED AREA
N.T.S.



STANDARD TRENCH INSTALLATION
PROPOSED PAVED AREA
N.T.S.

LEGEND

- DRAINAGE CONDUIT MATERIAL-CONCRETE
- MIDDLE BEDDING LOOSELY PLACED UNCOMPACTED BEDDING
- HAUNCH AND OUTER BEDDING COMPACTION- 95% STANDARD PROCTOR
- LOWER SIDE AND OVERFILL COMPACTION- SAME AS EMBANKMENT REQUIREMENTS
- D_O PIPE OUTSIDE DIAMETER
- D_I PIPE INSIDE DIAMETER

NOTES

1. BEDDING SHOWN IS IN ACCORDANCE WITH "STANDARD EMBANKMENT INSTALLATIONS", STANDARD INSTALLATION & BEDDING FACTORS FOR THE INDIRECT DESIGN METHOD (DESIGN DATA 40), AMERICAN CONCRETE PIPE ASSOCIATION.
2. BACKFILL TO EXTEND 3' BEYOND EDGES OF PROPOSED PAVEMENT.

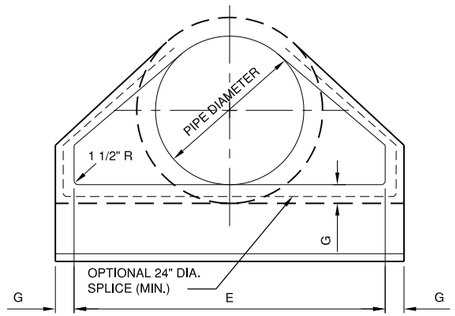
DIMENSIONS - TABLE 1

PIPE DIA.	APPROX WT.(lbs.)	WALL	A	B	C	D	E	G	R	SLOPE
12"	530	2"	4"	2'-0"	4'-0 7/8"	6'-0 7/8"	2'-0"	2"	9"	3:1
15"	740	2 1/4"	6"	2'-3"	3'-10"	6'-1"	2'-6"	2 1/4"	11"	3:1
18"	990	2 1/2"	9"	2'-3"	3'-10"	6'-1"	3'-0"	2 1/2"	12"	3:1
21"	1280	2 3/4"	9"	2'-11"	3'-2"	6'-1"	3'-6"	2 3/4"	13"	3:1
24"	1520	3"	9 1/2"	3'-7 1/2"	2'-6"	6'-1 1/2"	4'-0"	3"	14"	3:1
27"	1930	3 1/4"	10 1/2"	4'-0"	2'-1 1/2"	6'-1 1/2"	4'-6"	3 1/4"	14 1/2"	3:1
30"	2190	3 1/2"	1'-0"	4'-6"	1'-7 3/4"	6'-1 3/4"	5'-0"	3 1/2"	15"	3:1
33"	3200	3 3/4"	1-1 1/2"	4'-10 1/2"	3'-3 1/4"	8'-1 3/4"	5'-6"	3 3/4"	17 1/2"	3:1
36"	4100	4"	1'-3"	5'-3"	2'-10 3/4"	8'-1 3/4"	6'-0"	4"	20"	3:1
42"	5380	4 1/2"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	4 1/2"	22"	3:1
48"	6550	5"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	5"	22"	3:1
54"	8240	5 1/2"	2'-3"	5'-5"	2'-11"	8'-4"	7'-6"	5 1/2"	24"	2.4:1
60"	8730	6"	2'-11"	5'-0"	3'-3"	8'-3"	8'-0"	5"	*	2:1
66"	10710	6 1/2"	2'-6"	6'-0"	2'-3"	8'-3"	8'-6"	5 1/2"	*	2:1
72"	12520	7"	3'-0"	6'-6"	1'-9"	8'-3"	9'-0"	6"	*	1.86:1
78"	14770	7 1/2"	3'-0"	7'-6"	1'-9"	9'-3"	9'-6"	6 1/2"	*	1.82:1
84"	18160	8"	3'-0"	7'-6 1/2"	1'-9"	9'-3 1/2"	10'-0"	6 1/2"	*	1.5:1

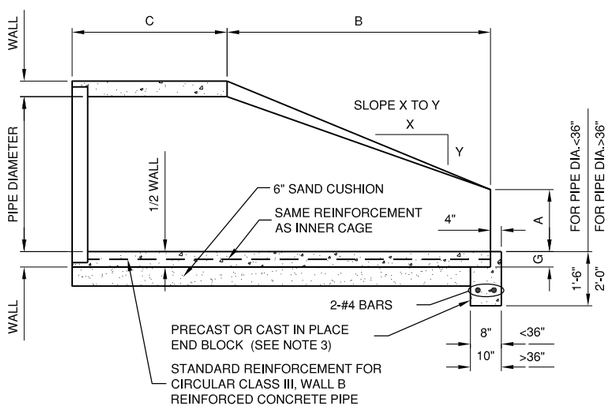
* RADIUS AS FURNISHED BY MANUFACTURER.

NOTES

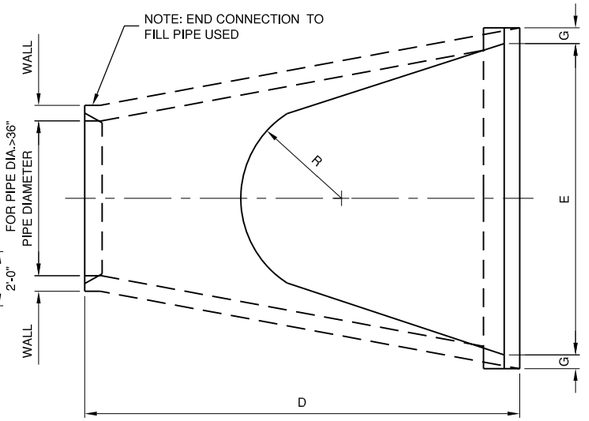
1. PRECAST CONCRETE FLARED END SECTIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-170 CLASS III, WALL B REINFORCED CONCRETE PIPE.
2. PRECAST CONCRETE FLARED END SECTION FOR PIPE DIAMETER REQUIRED SHALL BE AS INDICATED ON DETAIL PLAN FOR EACH INDIVIDUAL INSTALLATION.
3. THE END BLOCK SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE FLARED END SECTION. THE END BLOCK SHALL BE BACKFILLED IN ACCORDANCE WITH ITEM 701.
4. FES SHALL INCLUDE A PROTECTION GRATE PER IDOT STD. 54234-03



END VIEW



LONGITUDINAL SECTION



PLAN

PRECAST REINFORCED CONCRETE FLARED END SECTION
(I.D.O.T. STD. NO. 542301)
N.T.S.

CMT
License No. 184-000613
CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER
FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX
IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00
CAD DWG FILE: CMI4503-1505903-CU502.DWG
DESIGNED BY: CBG
DRAWN BY: DPA
CHECKED BY: JEF
APPROVED BY: CBG

SHEET TITLE
DRAINAGE DETAILS 1

CU502
SHEET 46 OF 72

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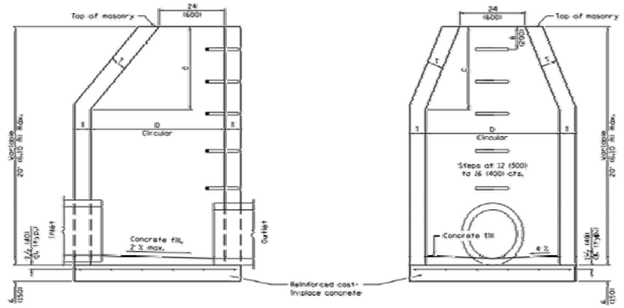
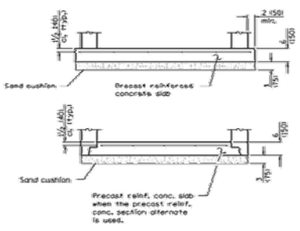


ELEVATION – ECCENTRIC

ELEVATION – CONCENTRIC

ALTERNATE MATERIALS FOR WALLS	D	C*	T (min.)
Concrete Masonry Unit	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	5 (125) 5 (125)
Brick Masonry	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	8 (200) 8 (200)
Precast Reinforced Concrete Section	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	4 (100) 5 (125)
Cast-in-place Concrete	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	6 (150) 6 (150)

* For precast reinforced concrete sections, dimension "C" may vary from the dimension given to plus 6 (150).



ALTERNATE BOTTOM SLAB

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.30 sq. in./ft. (660 sq. mm/m) in both directions with a maximum spacing of 12 (300).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

See Standard 602701 for details of steps.

See Standard 602620 for optional Precast Reinforced Concrete Slot Slab Top.

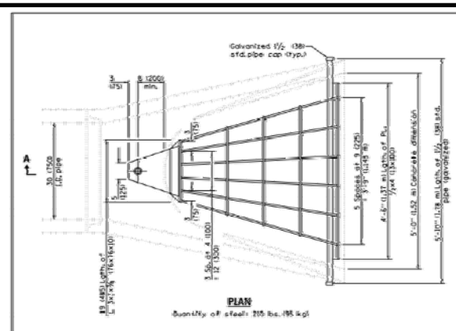
All dimensions are in inches (millimeters) unless otherwise shown.

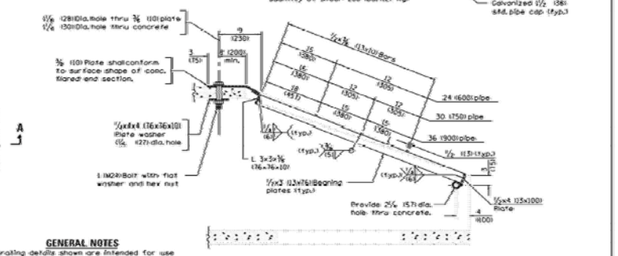
Illinois Department of Transportation
PASSED January 5, 2001 — ENGINEER OF POLICY AND PROCEDURES
APPROVED January 5, 2001 — ENGINEER OF DESIGN AND ENVIRONMENT
DATE OF EFFECTIVE JANUARY 1, 2002

DATE	REVISIONS
1-1-10	Detailed note in slabs.
	Added max. limit to height.
	Revised general notes.
1-1-09	Switched units to
	English (metric).

MANHOLE TYPE A

STANDARD 602401-03





GENERAL NOTES

Grating details shown are intended for use with particular sizes of precast reinforced concrete flared end sections as shown on standards 542301 and 542306.

Approximate quantity of steel shown includes total quantity of grating, bolts, nuts, washers and steel plate.

Holes in the precast concrete flared end sections shall be cored to the diameters noted, in one-cut on the other end at the hole occurs, the hole shall be filled with grout to correct the diameter of the hole.

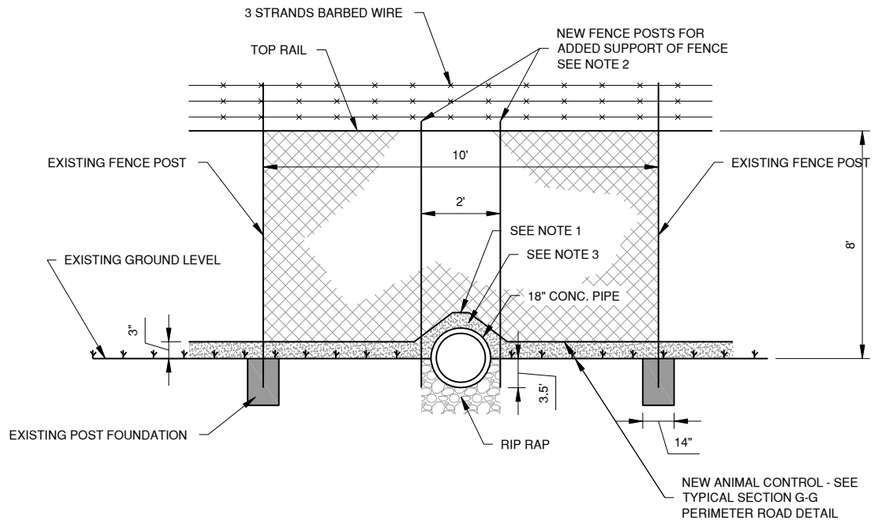
SECTION A-A

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-12	Corrected diameter
	dimension for 42 inch pipe.
1-1-11	Corrected weld symbols.

GRATING FOR CONCRETE FLARED END SECTION (FOR 24" (600 mm) THRU 54" (1350 mm) PIPE)

STANDARD 542311-03



NOTE:

1. CUT FENCE TO ACCOMMODATE CONCRETE PIPE IN THAT LOCATION BUT NOT COMPROMISING THE INTEGRITY OF THE REST OF THE FENCE LINE.
2. ADD A NEW DRIVEN FENCE POST ON EITHER SIDE OF CONCRETE PIPE FOR ADDED SUPPORT OF FENCING.
3. COVER BOTTOM OF FENCE LINE WITH ANIMAL CONTROL AGG. AS WELL AS OVER THE TOP OF THE PIPE.

FENCE LINE PIPE CROSSING DETAIL

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OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX

IL. PROJ. NO. CMI-4503 — CONTRACT NO. UN056

CMT PROJECT NO: 15059-03-00

CAD DWG FILE: CMI4503-1505903-CU503.DWG

DESIGNED BY: CBG

DRAWN BY: DPA

CHECKED BY: JEF

APPROVED BY: CBG

SHEET TITLE

DRAINAGE DETAILS 2

CU503

SHEET 47 OF 72

Path: K:\Champaign\Ap\15059303\Draw\Sheets\CMI4503-1505903-CU503.dwg
Date: Wednesday, June 8, 2016 6:20:11 AM

UNDERDRAIN PIPE SCHEDULE							
LINE	STRUCTURE UP	STRUCTURE DOWN	INVERT UP	INVERT DOWN	LENGTH (FT)	SLOPE	TYPE
UD-1	CO-1	T-1	743.57	741.61	392	0.50%	4" PERFORATED (705)
UD-2	T-1	EX. RCP	741.61	741.60	8	0.12%	4" PERFORATED (705)
UD-3	CO-2	T-1	743.01	741.61	241	0.58%	4" PERFORATED (705)
UD-4	CO-3	T-2	743.43	741.52	381	0.50%	4" PERFORATED (705)
UD-5	T-2	EX. RCP	741.52	741.39	8	1.62%	4" PERFORATED (705)
UD-6	CO-4	T-2	742.95	741.52	253	0.57%	4" PERFORATED (705)

UNDERDRAIN NOTES

1. SEE SHEET CI200 FOR PLAN LOCATION OF UNDERDRAIN STRUCTURES.

UNDERDRAIN STRUCTURE SCHEDULE							
STRUCTURE	ALIGNMENT	STA.	OFF.	RIM	INV.	TYPE	PAY ITEM
CO-1	NEW TAXIWAY B1	9+58.98	-48.5	747.07	743.57	1	AR705640
CO-2	NEW TAXIWAY B1	3+30.00	-57.9	746.51	743.01	1	AR705640
CO-3	NEW TAXIWAY B1	9+58.98	48.5	746.93	743.43	1	AR705640
CO-4	NEW TAXIWAY B1	3+30.00	57.9	746.45	742.95	1	AR705640
T-1	NEW TAXIWAY B1	5+68.57	-29.9	745.11	741.61	CONNECTION	INCIDENTAL
T-2	NEW TAXIWAY B1	5+80.08	29.3	745.02	741.52	CONNECTION	INCIDENTAL
DC-1	NEW TAXIWAY B1	5+67.13	-37.8	-	740.35	CONNECTION	AR705645
DC-2	NEW TAXIWAY B1	5+80.88	37.4	-	740.14	CONNECTION	AR705645

PIPE SCHEDULE							
LINE	STRUCTURE	STRUCTURE	INVERT	INVERT	LENGTH (Ft)	SLOPE	TYPE
RCP - 1	FES-1	FES-2	744.70	744.20	34	1.45%	12 inch Concrete Pipe
RCP - 2	FES-3	FES-4	730.06	729.20	39	2.19%	18 inch Concrete Pipe
RCP - 3	FES-5	FES-6	728.00	727.20	38	2.12%	18 Inch Concrete Pipe
RCP - 4	FES-7	FES-8	730.60	729.90	49	1.44%	18 inch Concrete Pipe
RCP - 5	FES-9	FES-10	731.02	733.10	37	-5.56%	18 inch Concrete Pipe
RCP - 6	FES-11	FES-12	717.80	716.80	53	1.88%	18 inch Concrete Pipe
RCP - 7	FES-13	FES-14	717.80	716.80	51	1.95%	18 inch Concrete Pipe
RCP - 8	FES-16	FES-15	729.90	729.20	36	1.96%	18 inch Concrete Pipe
RCP - 9	FES-18	FES-17	731.55	730.88	51	1.31%	30 Inch Concrete Pipe
RCP - 10	FES-20	FES-19	742.30	742.54	31	-0.76%	12 Inch Concrete Pipe

PIPE/STRUCTURE NOTES

1. LENGTH OF THE PIPE SHOWN INCLUDES TWO (2) 6' FLARED END SECTIONS. QUANTITIES FOR PAYMENT REFLECT THE ACTUAL LENGTH OF PIPE REQUIRED TO CONSTRUCT.
2. SEE SHEET CI201 TO CI203 FOR PIPE/STRUCTURE LOCATIONS.

STRUCTURE SCHEDULE					
STRUCTURE	ALIGNMENT	STATION	OFFSET	RIM	INVERT
FES-1	PERIMETER ROAD	23+00	15.8' R	745.41	OUT 744.70 (SW)
FES-2	PERIMETER ROAD	23+14	15.5' L	745.93	IN 744.20 (NE)
FES-3	PERIMETER ROAD	50+75	21.3' R	731.86	OUT 730.06 (SW)
FES-4	PERIMETER ROAD	50+60	14.9' L	731.00	IN 729.20 (NE)
FES-5	PERIMETER ROAD	61+07	19.9' R	729.80	OUT 728.00 (W)
FES-6	PERIMETER ROAD	61+09	17.7' L	729.00	IN 727.20 (E)
FES-7	PERIMETER ROAD	182+36	19.5' R	732.40	OUT 730.60 (W)
FES-8	PERIMETER ROAD	182+54	25.5' L	731.70	IN 729.90 (E)
FES-9	PERIMETER ROAD	190+16	21.8' R	732.82	OUT 731.02 (SW)
FES-10	PERIMETER ROAD	190+17	15.7' L	734.90	IN 733.10 (NE)
FES-11	PERIMETER ROAD	205+33	19.7' R	714.90	OUT 717.80 (SW)
FES-12	PERIMETER ROAD	204+97	16.7' L	713.72	IN 716.80 (NE)
FES-13	PERIMETER ROAD	205+34	18.7' R	714.85	OUT 717.80 (SW)
FES-14	PERIMETER ROAD	204+98	17.3' L	713.72	IN 716.80 (NE)
FES-15	PERIMETER ROAD	214+75	20.1' R	731.00	IN 729.20 (N)
FES-16	PERIMETER ROAD	214+71	15.5' L	0.73	OUT 729.90 (S)
FES-17	PERIMETER ROAD	221+64	26.8' R	733.83	IN 730.88 (NE)
FES-18	PERIMETER ROAD	221+89	17.8' L	734.50	OUT 731.55 (SW)
FES-19	PERIMETER ROAD	285+50	15.7' R	739.39	IN 742.54 (N)
FES-20	PERIMETER ROAD	285+46	15.5' L	739.46	OUT 742.30 (S)

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JUNE 3, 2016

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OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX
IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00
CAD DWG FILE: CMI4503-1505903-CU601.DWG
DESIGNED BY: CBG
DRAWN BY: DPA
CHECKED BY: JEF
APPROVED BY: CBG

SHEET TITLE
DRAINAGE TABLES

CU601
SHEET 48 OF 72

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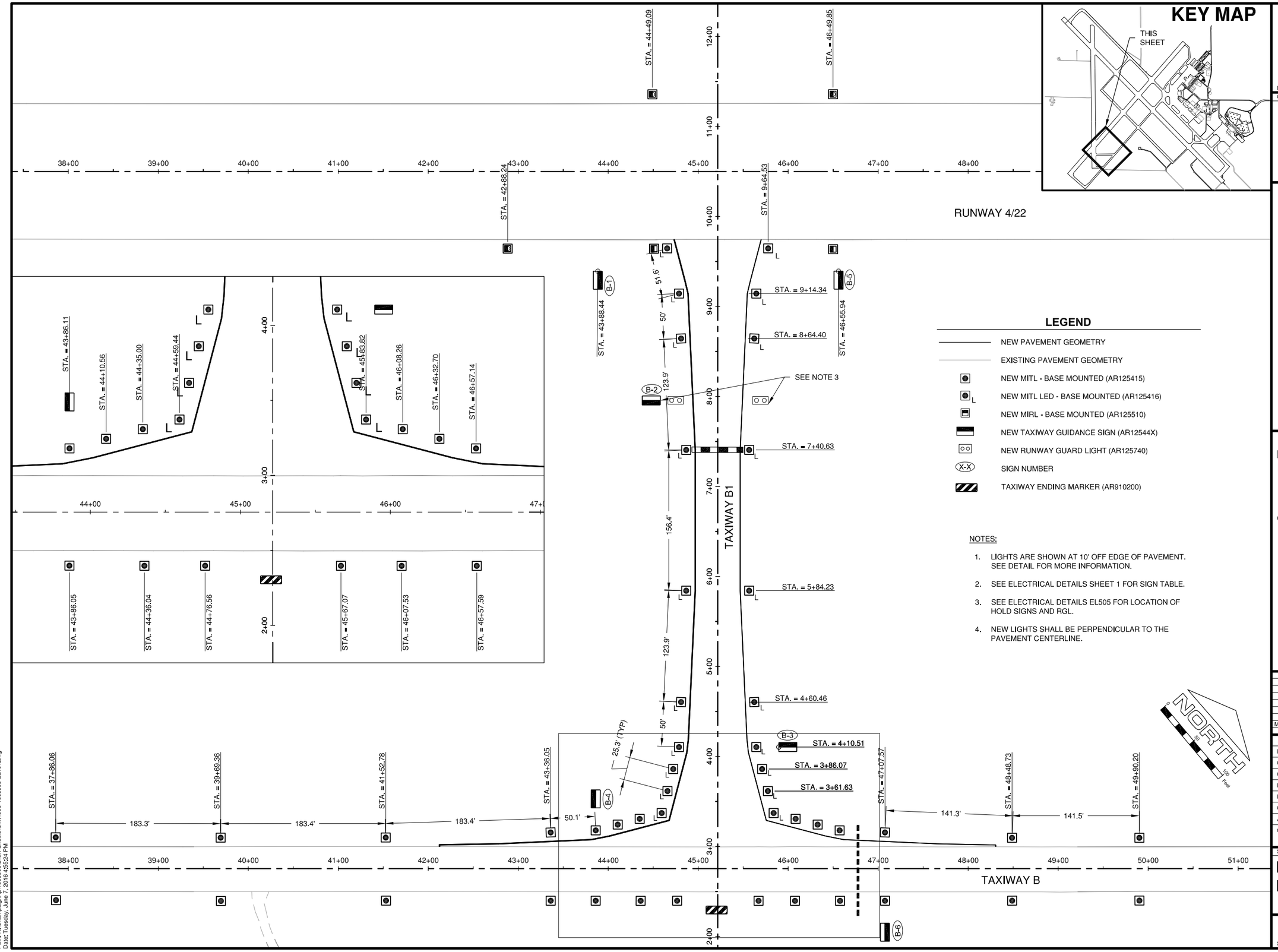

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JUNE 3, 2016

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OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-EL101.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

LIGHTING AND SIGN PLAN 1

EL101

SHEET 49 OF 72

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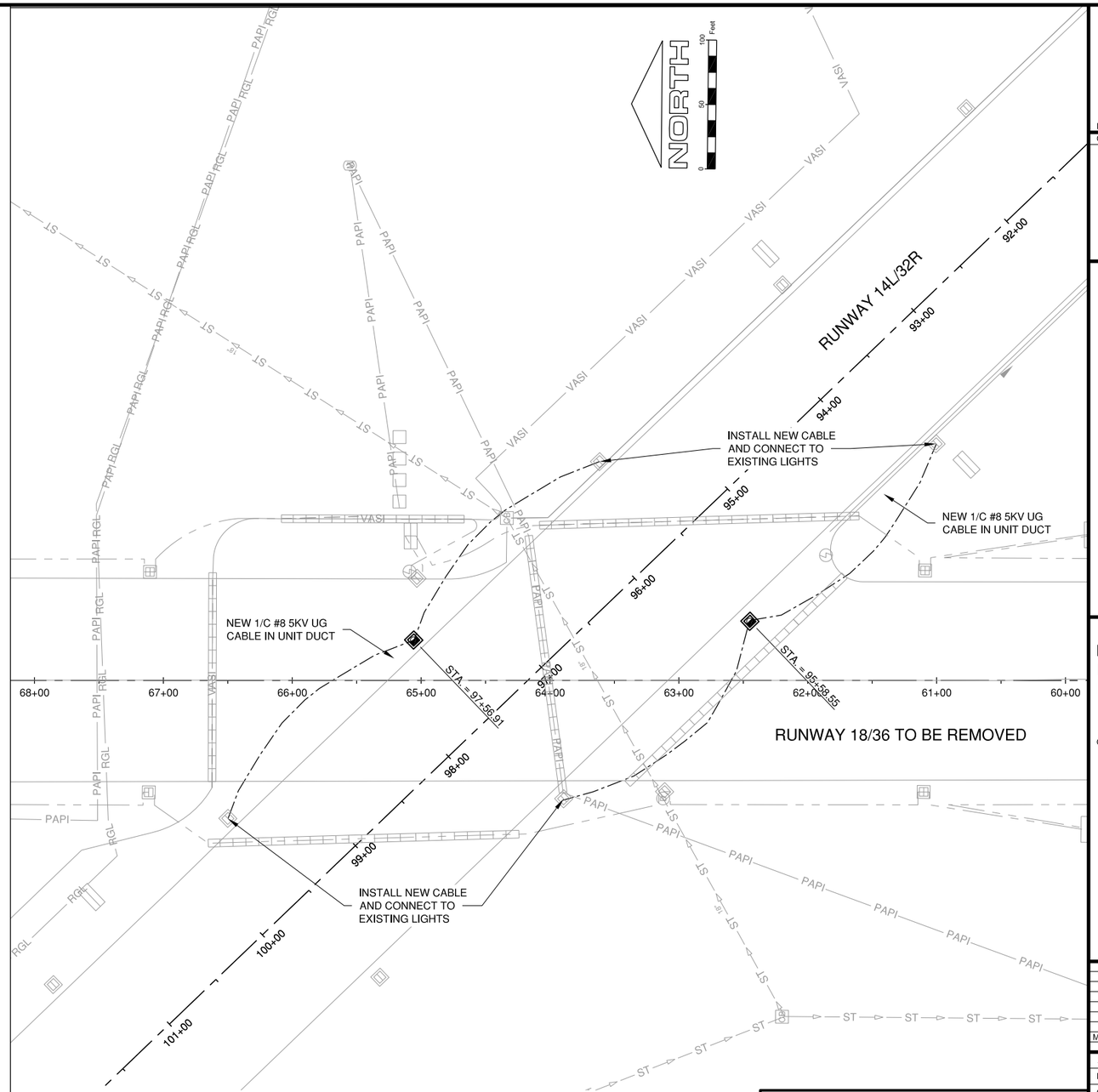


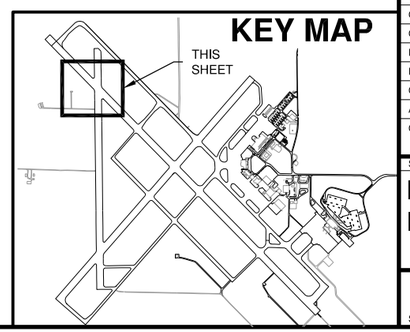
NOTES:

1. LIGHTS ARE SHOWN AT 10' OFF EDGE OF PAVEMENT. SEE DETAIL FOR MORE INFORMATION.
2. NEW LIGHTS SHALL BE PERPENDICULAR TO THE PAVEMENT CENTERLINE.

LEGEND

- EXISTING PAVEMENT GEOMETRY
- NEW HIRL, BASE MOUNTED (AR125515)
- NEW RUNWAY 14L/32R CABLE

KEY MAP



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REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

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AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-EL102.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

LIGHTING AND SIGN PLAN 2

EL102

SHEET 50 OF 72

Path: K:\Champaign\Ap\1505903\Draw\Sheets\CMI4503-1505903-EH102.dwg
Date: Tuesday, June 7, 2016 4:56:09 PM

EXISTING RUNWAY 4/22 LIGHTING CIRCUIT

INSTALL NEW CABLE AND CONNECT TO EXISTING LIGHTS

NEW 1/C #8 5KV UG CABLE IN UD

INSTALL NEW CABLE AND CONNECT TO EXISTING LIGHTS

EXISTING RUNWAY 4/22 LIGHTING CIRCUIT

NEW 1/C #8 5KV UG CABLE IN UD

CONNECT RUNWAY HOLD SIGN TO RUNWAY 4/22 LIGHT CIRCUIT

NEW 1/C #8 5KV UG CABLE IN UD

NEW TWO #12 USE, ONE #12 GND IN 1" UD

4-WAY CONCRETE ENCASED DUCT BANK- AR110504-57 LF

NEW 1/C #8 5KV UG CABLE IN UD

NEW TWO #10 USE, ONE #10 GND IN 1" UD

NEW 1/C #8 5KV UG CABLE IN UD

CONNECT TO NEXT LIGHT

EXISTING TWO #2 USE, ONE #8 GND IN 1" UD

DIRECTIONAL BORE- SEE DUCT BANK DETAILS SHEET

STA. = 44+49.09
STA. = 46+49.85
STA. = 42+8
STA. = 9+64.53
STA. = 43+88.44
STA. = 9+14.34
STA. = 8+64.40
STA. = 46+55.94
STA. = 7+40.63
STA. = 5+84.23
STA. = 4+60.46
STA. = 4+10.51
STA. = 3+86.07
STA. = 3+61.63
STA. = 47+07.57
STA. = 37+86.06
STA. = 39+69.36
STA. = 41+52.78
STA. = 43+36.05
STA. = 48+48.73
STA. = 49+90.20

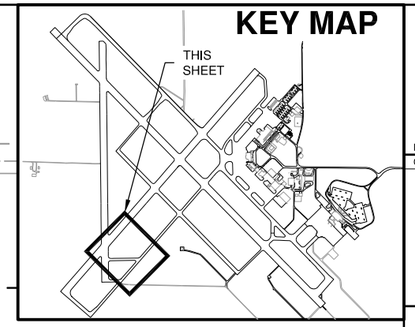
RUNWAY 4/22

TAXIWAY B1

TAXIWAY B

38+00 39+00 40+00 41+00 42+00 44+00 45+00 46+00 48+00
12+00 11+00 10+00 9+00 8+00 7+00 6+00 5+00 4+00 3+00 2+00
38+00 39+00 40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00 49+00 50+00 51+00

KEY MAP



LEGEND

- NEW PAVEMENT GEOMETRY
- EXISTING PAVEMENT GEOMETRY
- NEW MITL -BASE MOUNTED (AR125415)
- NEW MIRL, BASE MOUNTED (AR125510)
- NEW TAXI WAY GUIDANCE SIGN (AR12544X)
- NEW SPLICE CAN (AR125565)
- NEW RUNWAY GUARD LIGHT (AR125740)
- NEW TAXIWAY BRAVO CABLE (AR108158)
- EXISTING RUNWAY 4/22 CIRCUIT
- EXISTING TAXIWAY BRAVO CIRCUIT
- NEW RUNWAY 4/22 CABLE (AR108158)
- RGL — NEW RGL CABLE (AR108065)
- CONNECT CABLE TO NEAREST EXISTING LIGHT
- 4" DIRECTIONAL BORE (AR110014)

NORTH
0 30 60 120 Feet

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IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE: CMI4503-1505903-EP101.DWG	
DESIGNED BY: CBG	
DRAWN BY: DPA	
CHECKED BY: JEF	
APPROVED BY: CBG	

SHEET TITLE

CABLING PLAN 1

EP101

SHEET 51 OF 72

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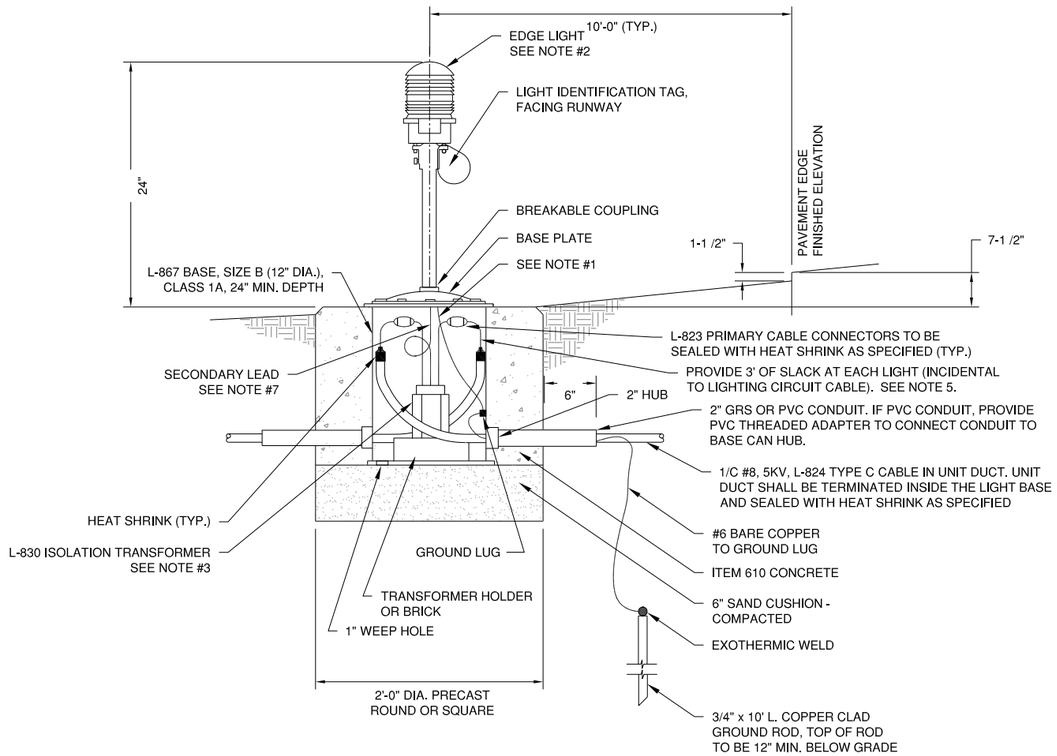
Date: Tuesday, June 7, 2016 4:56:38 PM

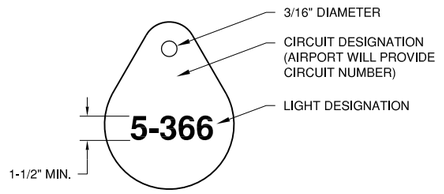


BASE MOUNTED EDGE LIGHT
N.T.S.

NOTES

1. THE LIGHT FIXTURE SHALL BE BONDED TO THE LIGHT BASE INTERNAL GROUND LUG VIA A #6 AWG STRANDED COPPER WIRE RATED FOR 600 VOLTS WITH GREEN XHHW INSULATION, THE GROUND WIRE LENGTH SHALL 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 THIS BONDING WIRE.
2. LIGHT FIXTURES SHALL BE L-861, L-861E, AS INDICATED ON THE PLANS AND SPECIFICATIONS. LED EDGE LIGHTS SHALL BE INDICATED WITH THE SUFFIX (L). WHERE INDICATED TO BE QUART LAMPS SHALL BE 30W OR 45W AS REQUIRED BY LIGHT FIXTURE MANUFACTURER TO MEET MINIMUM DISTRIBUTION AND OUTPUT REQUIREMENTS OF AC 150/5345-46 (LATEST EDITION).
3. L-830 ISOLATION TRANSFORMERS FOR QUART EDGE LIGHTS AND LED EDGE LIGHTS WITH HEATERS SHALL BE L-830-1 30/45 WATT. LED EDGE LIGHTS WITHOUT HEATERS SHALL BE L-830-16, $^{10}/_{15}$ WATT OR L-830-17, 20/25 WATT, AS RECOMMENDED BY LIGHT MANUFACTURER.
4. THE TOLERANCE FOR THE HEIGHT OF RUNWAY/TAXIWAY EDGE LIGHTS MUST BE ± 1 INCH. THE TOLERANCE FOR THE LATERAL SPACING (LIGHT LANE TO RUNWAY/TAXIWAY CENTERLINE) OF RUNWAY/TAXIWAY EDGE LIGHTS MUST BE ± 1 INCH.
5. DIRECTION OF PRIMARY CABLES MUST BE IDENTIFIED BY COLOR CODING AS FOLLOWS: WHEN FACING LIGHT WITH BACK FACING PAVEMENT, CABLE TO THE LEFT IS CODED RED AND CABLE TO THE RIGHT IS CODED BLUE.
6. APPLY A CORROSION INHIBITING, ANTI-SEIZE COMPOUND TO ALL SCREWS, NUTS AND FRANGIBLE COUPLING THREADS. IF COATED BOLTS ARE USED PER ENGINEERING BRIEF #83, DO NOT APPLY ANTI-SEIZE COMPOUND.
7. ELECTRICAL INSULATING GREASE MUST BE APPLIED WITHIN THE L-830 ISOLATION TRANSFORMER SECONDARY TWO CONDUCTOR CONNECTORS TO PREVENT WATER ENTRANCE. THE CONNECTORS MUST NOT BE TAPED.
8. ENTRANCES IN L-867 BASES MUST BE PLUGGED FROM THE INSIDE WITH DUCT SEAL TO MAKE WATERTIGHT.

SIGN #	SIDE	NEW SIGN LEGEND	WHITE WITH BLACK OUTLINE ON RED BACKGROUND	BLACK LEGEND ON YELLOW BACKGROUND	YELLOW LEGEND ON BLACK BACKGROUND	NUMBER OF CHARACTERS	NEW POWER CIRCUIT	NOTES
B-1	NE SW	B1 ⟶		B1 ⟶		3	TXY B	NEW SIGN - AR125443 - (5-D)
B-2	NW SE	B1 B1 4-22	4-22		B1 B1	6	TXY B	NEW SIGN - AR125446 - (5-E)
B-3	NW SE	B1 ⟵B⟶ B1		⟵ B ⟶	B1 B1	5	TXY B	NEW SIGN - AR125445 - (5-H)
B-4	NE SW	⟵ B1 B		⟵ B1	B	4	TXY B	NEW SIGN - AR125444 - (5-F)
B-5	NE SW	⟵ B1		⟵ B1	B	3	TXY B	NEW SIGN - AR125443 - (5-G)
B-6	NE SW	B B1 ⟶		B1 ⟶	B	4	TXY B	NEW SIGN - AR125444 - (5-I)



LIGHT IDENTIFICATION TAG DETAIL
N.T.S.

NOTES

1. INSTALL A NONCORROSIVE DISC OF 2" MINIMUM DIAMETER WITH THE NUMBER PERMANENTLY STAMPED, CUT OUT, OR ENGRAVED UNDER THE HEAD OF THE BASE PLATE BOLT OR ATTACHED TO LIGHT FLANGE WITH SET SCREW.
2. NUMERALS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY, AND SHALL BE AS DIRECTED BY THE RESIDENT ENGINEER.
3. AIRFIELD SIGNS SHALL BE TAGGED AND NUMBERED.
4. THE CONTRACTOR SHALL NUMBER THE EXISTING AND PROPOSED LIGHTS AND SIGNS IN EACH CIRCUIT, STARTING AT THE HOMERUN AND CONTINUING AROUND THE ENTIRE CIRCUIT, BACK TO THE HOMERUN.

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX
IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00
CAD DWG FILE: CMI4503-1505903-EL501.DWG
DESIGNED BY: CBG
DRAWN BY: DPA
CHECKED BY: JEF
APPROVED BY: CBG

SHEET TITLE

ELECTRICAL DETAILS 1

EL501

SHEET 52 OF 72

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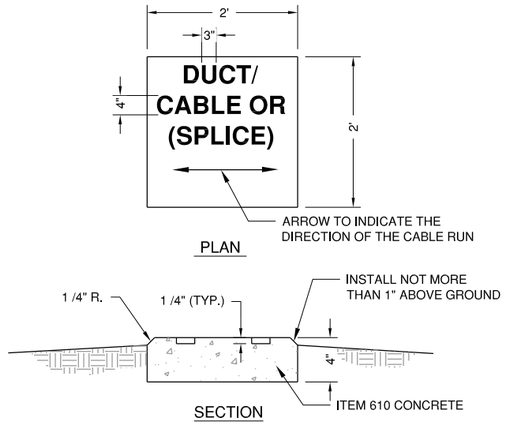
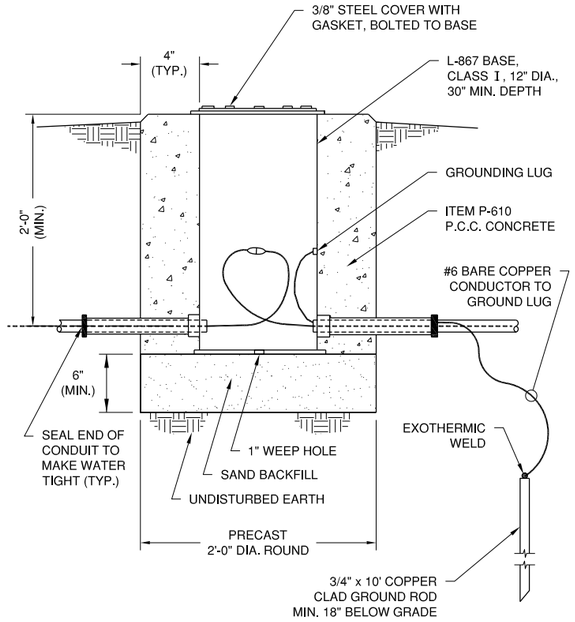


TURF CABLE /DUCT/ SPLICE MARKER DETAIL

N.T.S.

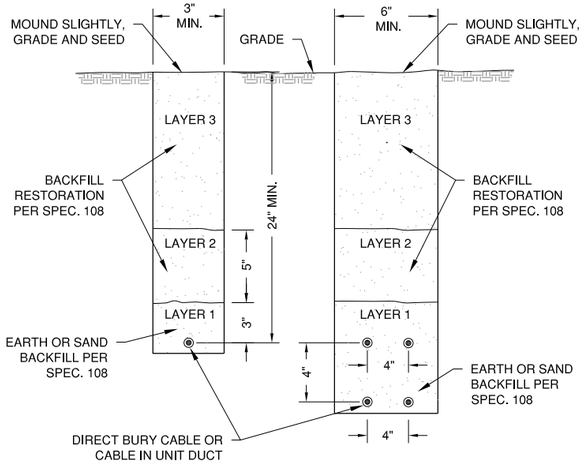
NOTES

1. DUCT MARKERS SHALL BE INSTALLED AT BOTH EDGES OF PAVEMENT WHERE PROPOSED ELECTRICAL DUCTS CROSS BOTH NEW AND EXISTING PAVEMENTS.
2. CABLE MARKERS SHALL BE INSTALLED AT ALL BENDS AND EVERY 200' ALONG THE HOMERUN.
3. ITEM 610 CONCRETE SHALL BE USED.
4. ALL EXPOSED EDGES SHALL BE EDGED WITH A 1/4" RADIUS TOOL.
5. THE COST OF FURNISHING AND INSTALLING NEW MARKERS SHALL BE INCIDENTAL TO THE ASSOCIATED ITEMS.
6. 0.049 CU. YD. CONCRETE PER MARKER.
7. A MARKER CONFORMING TO THIS DETAIL MARKED "SPLICE" SHALL BE INSTALLED AT ALL SPLICE LOCATIONS NOT IN LIGHT CANS OR MANHOLES.



SPLICE CAN DETAIL

N.T.S.

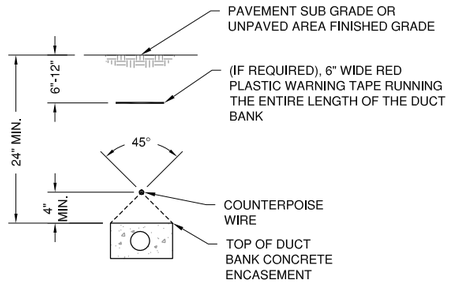


NOTES:

1. CABLES SHALL NOT BE PLACED LESS THAN 24" DEEP IN ANY ONE TRENCH UNLESS PERMITTED BY ENGINEER.
2. WHERE PERMITTED, CONTRACTOR MAY INSTALL CABLE IN UNIT DUCT BY PLOWING METHOD.

CABLE TRENCH DETAIL

N.T.S.



LOCATION OF COUNTERPOISE WIRE

(LIGHTING PROTECTION)

N.T.S.

NOTES:

1. THE HEIGHT ABOVE THE CABLE AND/OR CONDUIT IS CALCULATED TO ENSURE THE CABLES AND/OR CONDUITS TO BE PROTECTED ARE WITHIN THE 45° ZONE OF PROTECTION BELOW THE COUNTERPOISE.
2. COUNTERPOISE WIRES MUST BE INSTALLED ABOVE MULTIPLE CONDUITS/DUCT BANKS FOR AIREFIELD LIGHTING CABLES, WITH THE INTENT BEING TO PROVIDE A COMPLETE CONE OF PROTECTION OVER THE AIRFIELD LIGHTING CABLES. WHEN MULTIPLE CONDUITS AND/OR DUCT BANKS FOR AIRFIELD CABLE ARE INSTALLED IN THE SAME TRENCH, THE NIMBER AND LOCATION OF THE COUNTERPOISE WIRES ABOVE THE CONDUITS SHALL BE ADEQUATE TO PROVIDE A COMPLETE ZONE OF PROTECTION MEASURED 22-1 /2°EACH SIDE OF VERTICAL.
3. REFER TO THE CURRENT VERSIONS OF FAA AC 150/5340-30 AND AC 150/5370-10 FOR MORE DETAILS ON COUNTERPOISE INSTALLATION.

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FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

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AIP PROJ. NO. 3-17-0006-XX

IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056

CMT PROJECT NO: 15059-03-00

CAD DWG FILE: CMI4503-1505903-EL502.DWG

DESIGNED BY: CBG

DRAWN BY: DPA

CHECKED BY: JEF

APPROVED BY: CBG

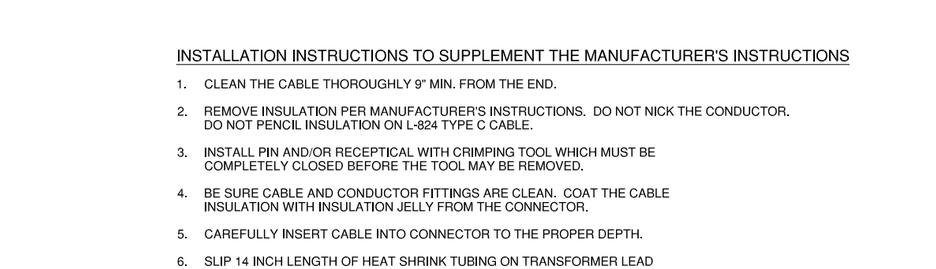
SHEET TITLE

ELECTRICAL DETAILS 2

EL502

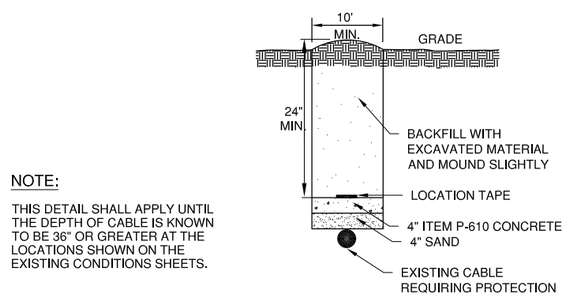
INSTALLATION INSTRUCTIONS TO SUPPLEMENT THE MANUFACTURER'S INSTRUCTIONS

1. CLEAN THE CABLE THOROUGHLY 9" MIN. FROM THE END.
2. REMOVE INSULATION PER MANUFACTURER'S INSTRUCTIONS. DO NOT NICK THE CONDUCTOR. DO NOT PENCIL INSULATION ON L-824 TYPE C CABLE.
3. INSTALL PIN AND/OR RECEPTICAL WITH CRIMPING TOOL WHICH MUST BE COMPLETELY CLOSED BEFORE THE TOOL MAY BE REMOVED.
4. BE SURE CABLE AND CONDUCTOR FITTINGS ARE CLEAN. COAT THE CABLE INSULATION WITH INSULATION JELLY FROM THE CONNECTOR.
5. CAREFULLY INSERT CABLE INTO CONNECTOR TO THE PROPER DEPTH.
6. SLIP 14 INCH LENGTH OF HEAT SHRINK TUBING ON TRANSFORMER LEAD RAYCHEM TCS-13-14-U OR APPROVED EQUAL.
7. COMPLETE CONNECTION BY MATING THE PLUG AND RECEPTICAL. **CAUTION** BE SURE THE CABLE DOES NOT SLIP WHEN THE CONNECTION IS MADE.
8. APPLY RUBBER TAPE AND PLASTIC TAPE, ONE HALF LAPPED 1-1/2" ON EACH SIDE OF JOINT.
9. ANY CONNECTOR WHICH IS CONTAMINATED BY DIRT OR OTHER DELETERIOUS MATERIAL SHALL BE REMOVED NOT REINSTALLED.
10. CLEAN CONNECTOR AND CABLE INSULATION WITH WAX OR GREASE SOLVENT TO REMOVE SURFACE SILICONE JELLY.
11. WRAP SEALANT SECURELY AROUND THE CABLE. INSULATION TO EXTEND 1-1/2" BEYOND BOTH ENDS OF CONNECTORS. SEALANT SHALL BE RAYCHEM S-1052 (STRIPS) OR APPROVED EQUAL.
12. CENTER HEAT SHRINK OVER THE CONNECTOR. APPLY HEAT EVENLY BEGINNING AT THE CENTER AND WORKING AROUND CABLE TO ENDS. THERMOCHROMIC PAINT SHALL SHOW PROPER HEAT HAS BEEN USED. *** DO NOT OVER HEAT ***.
13. THE HEAT SOURCE SHALL BE AN ELECTRIC HEAT GUN OR A PROPANE WITH FLAME SPREADER.



CABLE DEPTH INVESTIGATION DETAIL - AR108970

N.T.S.

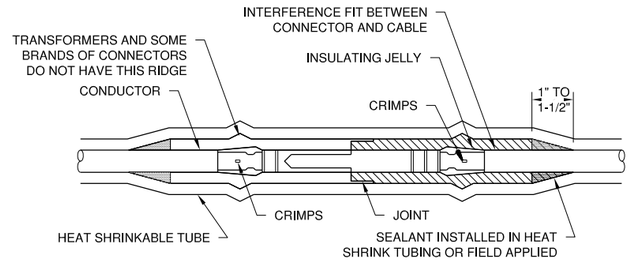


NOTE:

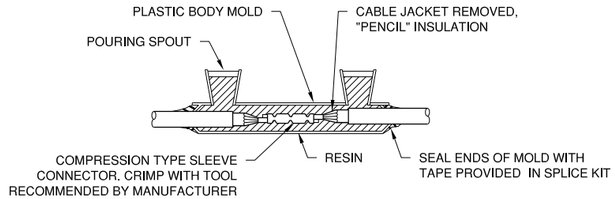
THIS DETAIL SHALL APPLY UNTIL THE DEPTH OF CABLE IS KNOWN TO BE 36" OR GREATER AT THE LOCATIONS SHOWN ON THE EXISTING CONDITIONS SHEETS.

CABLE PROTECTION DETAIL-AR108980

N.T.S.

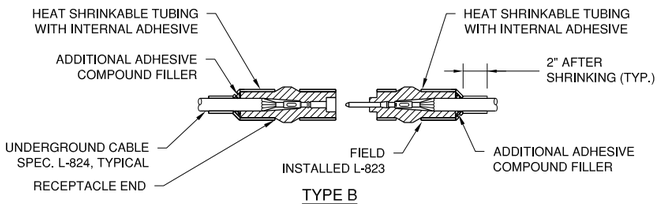


RECEPTACLE PLUG



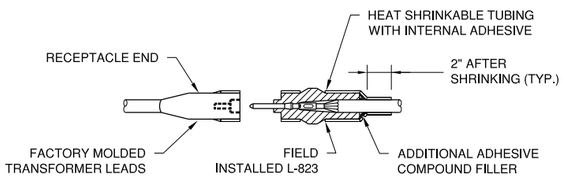
TYPE A

FOR SPLICES IN HOMERUNS AND FOR EXTENSIONS TO EXISTING CABLES ONLY



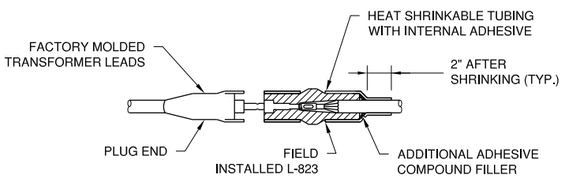
TYPE B

NOT TO BE USED UNLESS DIRECTED BY ENGINEER



TYPE C

FOR SPLICES AT RUNWAY LIGHTS, TAXIWAY LIGHT AND SIGNS



TYPE D

FOR SPLICES AT RUNWAY LIGHTS, TAXIWAY LIGHT AND SIGNS

NOTES:

1. MATCH THE OUTSIDE DIAMETER OF CABLE INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY
2. WRAP WITH AT LEAST ONE LAYER OF RUBBER OR TAPE, ONE-HALF LAPPED, EXTENDING AT LEAST 1-1/2 INCHES ON EACH SIDE OF JOINT.

CABLE CONNECTOR DETAILS

N.T.S.

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OWNER

CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

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AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-EL503.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG
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SHEET TITLE

ELECTRICAL DETAILS 3

EL503

SHEET 54 OF 72

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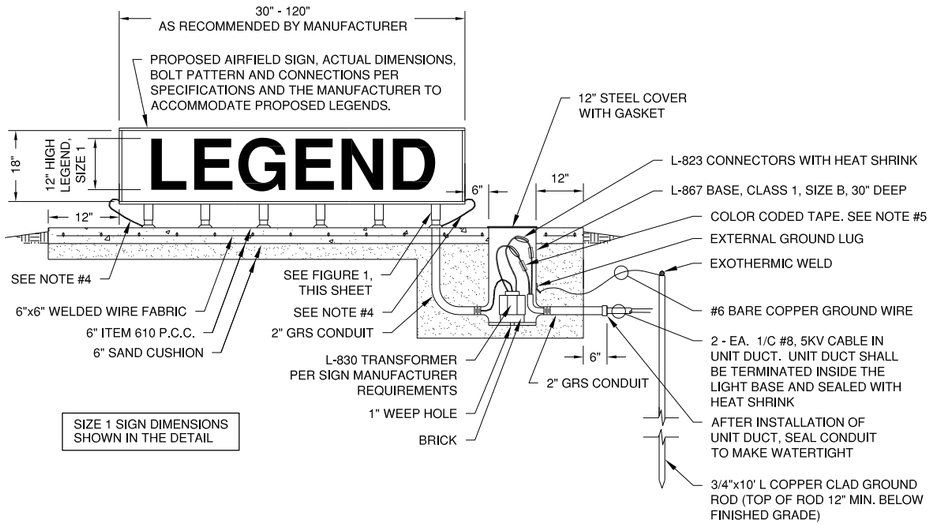
AIRFIELD SIGN NOTES

1. TRANSFORMER WATTAGE SHALL BE AS REQUIRED BY SIGN MANUFACTURER.
2. SIGN LEGEND SHALL BE AS SHOWN IN THE PLANS.
3. SIGNS SHALL BE SIZE 2, STYLE 2, CLASS 2, AND MODE 2.
4. SEE "NEW BASE MOUNTED EDGE LIGHT" DETAIL FOR GROUNDING DETAILS.
5. LIGHT I.D. TAG FOR SIGN SHALL INCLUDE SIGN DESIGNATOR SHOWN IN THE PLAN TABLES.

NOTES

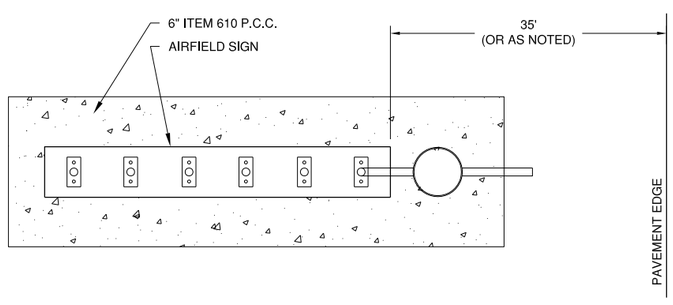
1. SIGN SCHEDULE IS SUBJECT TO FAA APPROVAL OF THE SIGNAGE PLAN.
2. CHANGES TO NEW LEGENDS MAY OCCUR SUBJECT TO 1 ABOVE.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH NEW LEGENDS FOR APPROVAL PRIOR TO STARTING MANUFACTURE.



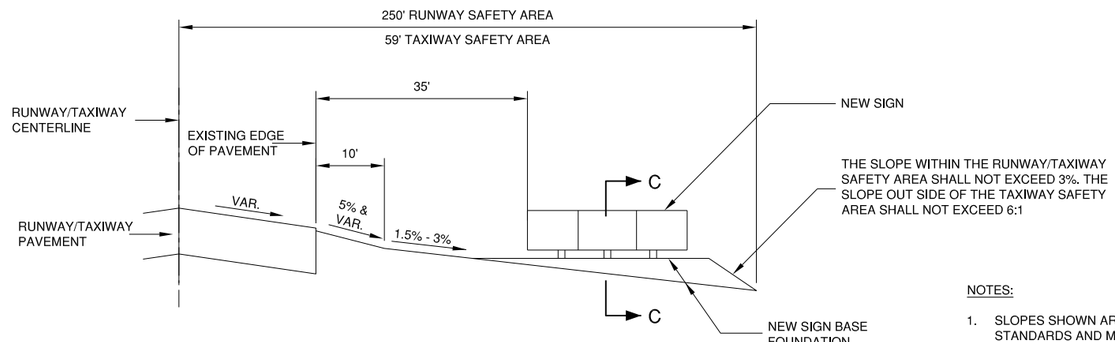
L-858 AIRFIELD SIGN DETAIL
N.T.S.

NOTES

1. TRANSFORMER WATTAGE SHALL BE AS REQUIRED BY SIGN MANUFACTURER.
2. SIGN LEGEND SHALL BE AS SHOWN IN THE PLANS.
3. PROVIDE 3 FEET OF CABLE IN BASE CAN.
4. TETHER- SEE SPECIFICATIONS.
5. DIRECTION OF PRIMARY CABLES MUST BE IDENTIFIED BY COLOR CODING AS FOLLOWS: WHEN FACING SIGN IN BACK FACING THE RELATED RUNWAY OR TAXIWAY PAVEMENT, THE CABLE FOR THE CIRCUIT TO THE LEFT IS CODED RED AND CABLE FOR THE CIRCUIT TO THE RIGHT IS CODED BLUE.



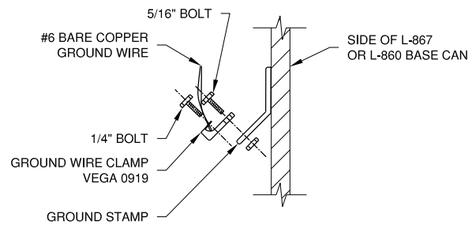
PLAN VIEW



ELEVATION

NOTES:

1. SLOPES SHOWN ARE FROM FAA STANDARDS AND MAY NOT REFLECT THE ACTUAL GRADES IN THE FIELD
2. ESTIMATED 1 C.Y. OF EMBANKMENT MAY BE REQUIRED TO CONSTRUCT SIGN BASE FOUNDATION. COSTS TO CONSTRUCT SHALL BE INCIDENTAL TO SIGN PAY ITEM.
3. ACTUAL LOCATION OF THE SIGN WITHIN THE TAXIWAY SAFETY AREA WILL VARY DUE TO PAVEMENT WIDTHS AND VARIANCES IN SIGN FOUNDATION LENGTHS.
4. 4" OF KNITTED STRAW MAT SHALL BE PLACED AROUND THE PROTECTION APRON. COST FOR MAT SHALL BE INCIDENTAL TO SIGN PAY ITEM.



FACTORY GROUND LUG DETAIL
N.T.S.

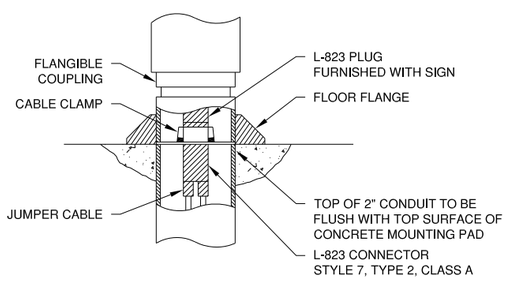
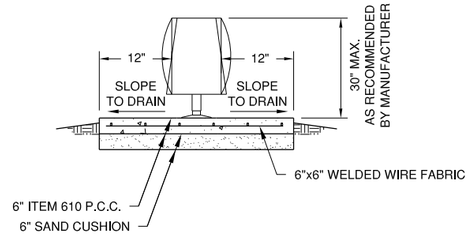


FIGURE 1
ELECTRICAL CONNECTION DETAIL



ELEVATION VIEW

L-858 AIRFIELD SIGN DETAILS
N.T.S.

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JUNE 3, 2016

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DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE
ELECTRICAL DETAILS 4

EL504
SHEET 55 OF 72

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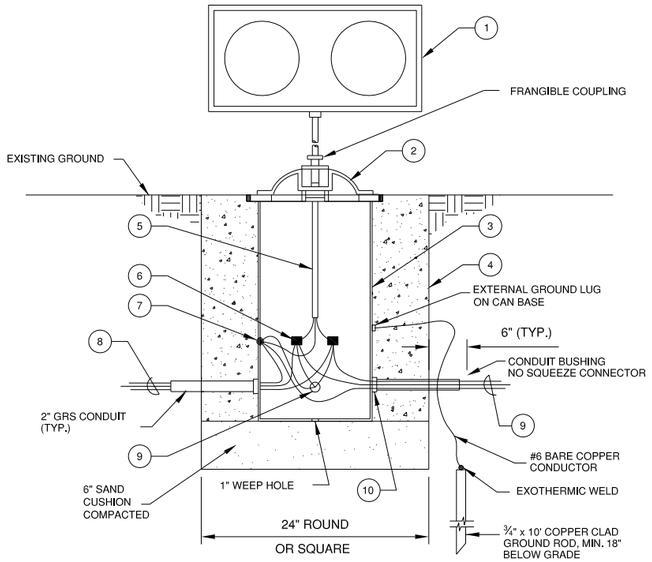
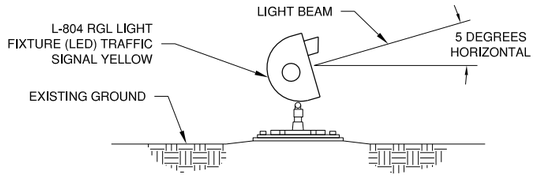


NEW RUNWAY GUARD LIGHT INSTALLATION
(VOLTAGE POWERED)

N.T.S.

NOTES:

1. L-804 RUNWAY GUARD LIGHT (RGL), MODE 2 (240V) WITH PHOTOCELL, NOT MONITORED, 100W/6.6A INCANDESCENT LAMPS, TRAFFIC SIGNAL YELLOW.
2. SPECIAL BASE PLATE, SUPPLIED WITH RUNWAY GUARD LIGHT.
3. L-867B LIGHT BASE.
4. CONCRETE.
5. CONNECTOR AND PIGTAIL, SUPPLIED WITH RUNWAY GUARD LIGHT.
6. WATERPROOF TAPED SPLIT BOLT SPLICE (TYP. OF TWO).
7. LIGHT BASE GROUND TERMINAL. CONNECT ALL GROUND WIRES TO HERE.
8. TWO #10 USE (240V), ONE #10 GROUND IN 1" UNIT DUCT TO NEW SPLICE CAN.
9. TWO #12 USE (240V), ONE #12 GROUND TO RUNWAY GUARD LIGHT ON OPPOSITE SIDE OF TAXIWAY. INCIDENTAL TO INSTALLATION OF RUNWAY GUARD LIGHTS.
10. PLUG ENTRANCES FROM INSIDE WITH DUCT SEAL.



L-804 RUNWAY GUARD LIGHT
HORIZONTAL AIMING DETAIL

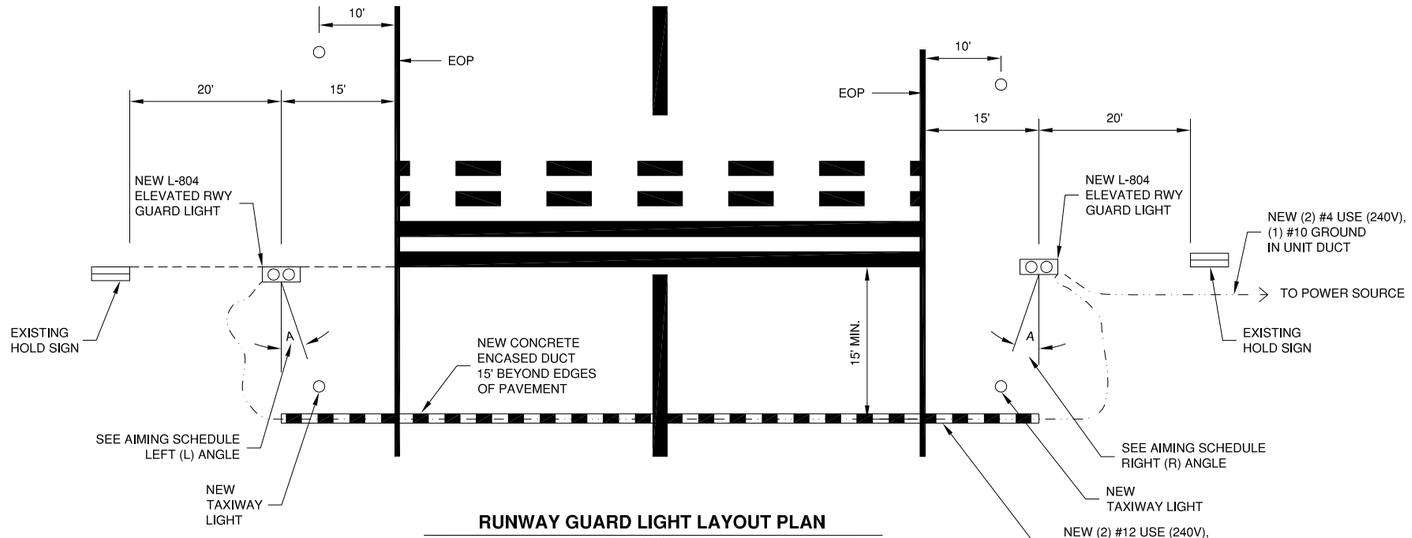
NOTE:
CONTRACTOR SHALL AIM THE RGL UNITS 5 DEGREES UPWARD PER MANUFACTURER'S INSTRUCTIONS.

L-804 RUNWAY GUARD LIGHT INSTALLATION DETAILS
BASE MOUNTED, 6.6 AMP SERIES CIRCUIT

RUNWAY GUARD LIGHT AIMING SCHEDULE			
PAIR NUMBER	L ∠A	R	∠B
1	23.4°	23.4°	5°

NOTES:

1. ∠A IS ANGLE UNIT SHOULD BE AIMED TOWARD TAXIWAY CENTERLINE AND IS SYMMETRICAL ABOUT THE TAXIWAY CENTERLINE.
2. ∠B IS ANGLE UNIT SHOULD BE AIMED UPWARD FROM THE HORIZONTAL AND IS THE SAME FOR EACH UNIT IN EVERY PAIR OF RUNWAY GUARD LIGHTS.
3. LEFT (L) AND RIGHT (R) ARE DESIGNATED BY LOOKING TOWARD THE RUNWAY FROM THE HOLD SIDE OF THE HOLD LINE.
4. PAIR NUMBER IS DESIGNATED ON PROPOSED LIGHTING LAYOUT AND RGL AND SIGN LOCATIONS SHEETS.



RUNWAY GUARD LIGHT LAYOUT PLAN

N.T.S.

NOTES:

1. LOCATION OF DUCT BANK MAY VARY TO AVOID EXISTING UTILITIES.
2. ANGLE 'A' - SEE AIMING SCHEDULE.

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SHEET TITLE

ELECTRICAL DETAILS 5

EL505

SHEET 56 OF 72

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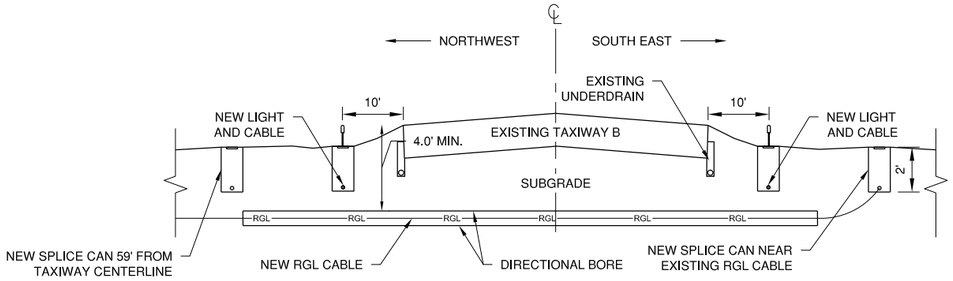
Date: Tuesday, June 7, 2016 4:58:03 PM

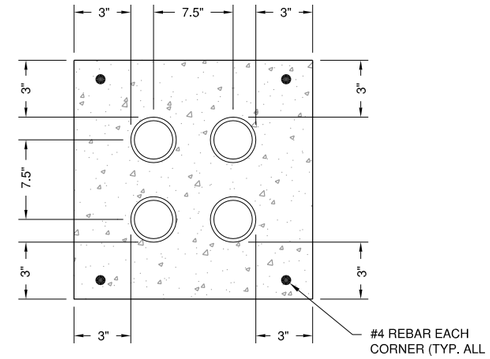


DIRECTIONAL BORE DETAIL - AR110014

N.T.S.

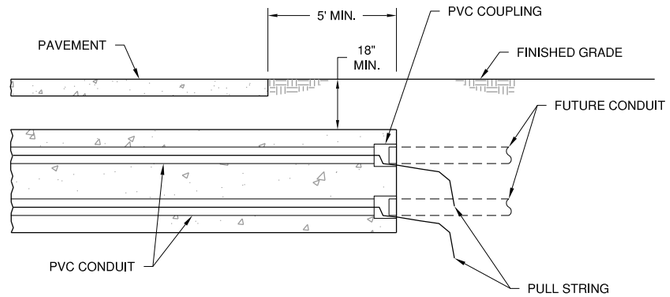
NOTES

1. DIRECTIONAL BORING SHALL BE DONE ONLY WHEN TAXIWAY B IS CLOSED TO AIR TRAFFIC.
2. THE DEPTH OF THE DIRECTIONAL BORE SHALL BE NO LESS THAN 4.0' FROM THE PAVEMENT SURFACE AND SHALL NOT DISTURB EXISTING UNDERDRAINS OR NEW LIGHTS/CABLING.
3. PLOWING OR TRENCHING WILL BE REQUIRED TO INSTALL THE RGL FROM SPLICE CAN TO SPLICE CAN, BUT WILL BE INCIDENTAL TO THE DIRECTIONAL BORE PAY ITEM.



4-WAY DUCT BANK DETAIL

N.T.S.



TYPICAL SECTION

N.T.S.

NOTES

1. DIMENSIONS SHOWN ARE MINIMUM.
2. TOP OF CONCRETE ENCASEMENT SHALL BE NOT LESS THAN 24" BELOW FINISHED SUBGRADE BELOW PAVEMENTS AND NOT LESS THAN 24" BELOW FINISHED GRADE IN UNPAVED AREAS, EXCEPT WHERE DIRECTED OTHERWISE BY ENGINEER. AVOID ALL CONFLICTS WITH OTHER UTILITIES (UNDERDRAINS, WATER LINES, SEWER LINES, TELEPHONE, ELECTRICAL) OR OTHER OBSTACLES, ADJUSTING DEPTH AS NECESSARY.
3. CONCRETE SHALL BE ITEM 610.
4. CONDUIT FOR CONCRETE ENCASEMENT SHALL BE SCHEDULE 40 PVC, 4" NOMINAL DIAMETER, OR AS INDICATED ON THE PLANS.
5. CONCRETE ENCASEMENT SHALL EXTEND A MINIMUM OF 5'-0" BEYOND EDGES OF PAVEMENT, OR AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
6. #4 REBAR SHALL BE INSTALLED CONTINUOUS THE LENGTH OF THE CONCRETE ENCASEMENT.
7. DUCT BANK SHALL BE STACKED NO MORE THAN THREE CONDUITS HIGH UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
8. AT ENDS OF DUCT BANKS, INSTALL A PVC COUPLING FLUSH WITH END OF CONCRETE FOR CONNECTING FUTURE CONDUIT. INSTALL POLYETHELENE PULL STRING, GREENLEE, OR EQUIVALENT. PLUG THE ENDS OF UNUSED SPARE CONDUITS WITH WOODEN PLUGS.
9. HIGH VOLTAGE WIRING, RUNWAY & TAXIWAY SERIES CIRCUIT WIRING, ETC., AND POWER WIRING OVER 480V SHALL BE INSTALLED IN SEPARATE CONDUITS FROM LOW VOLTAGE WIRING, 480V OR LESS.
10. IF POSIBLE, INSTALL FIBER OPTIC CABLES AND COMMUNICATION CABLES (FAA, ETC.) IN THEIR OWN CONDUITS; OTHERWISE, INSTALL THEM IN THE CONDUITS WITH LOW VOLTAGE WIRING.

CMT

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CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-EL506.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

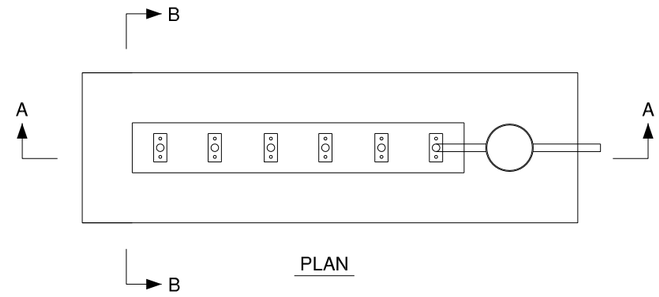
SHEET TITLE

DUCT BANK DETAILS

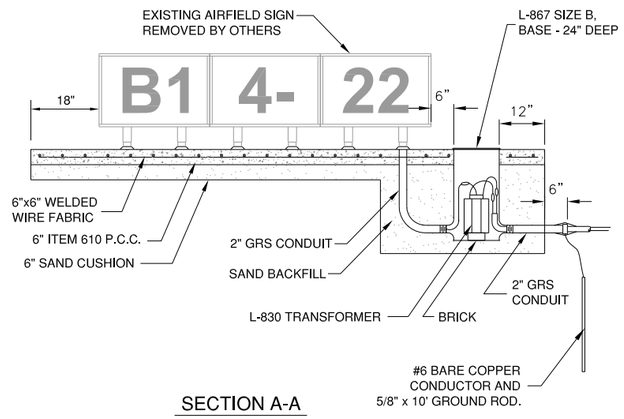
EL506

SHEET 57 OF 72

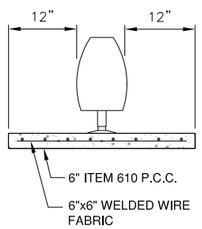
EXISTING AIRFIELD SIGN DETAIL
N.T.S.



PLAN



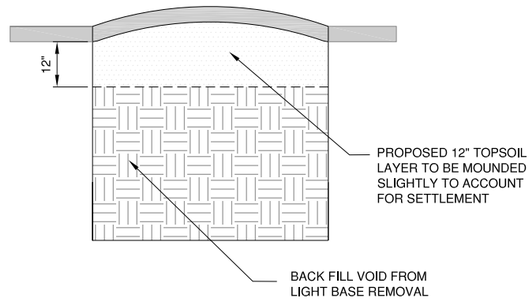
SECTION A-A



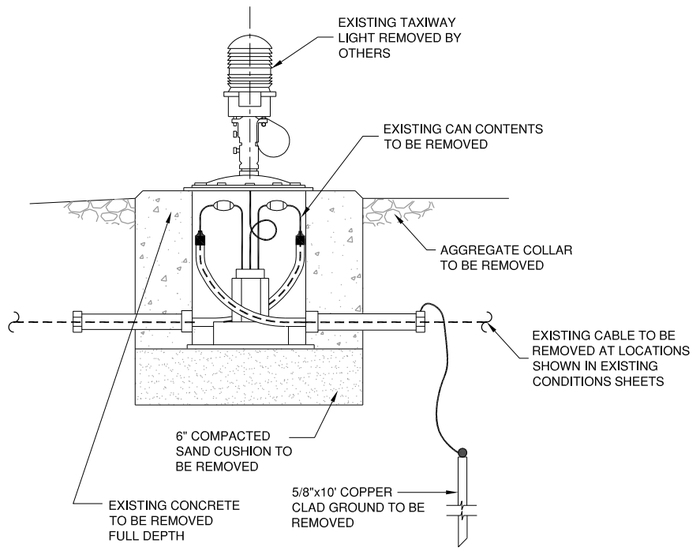
SECTION B-B

NOTES

1. SIGN & LIGHT DETAILS SHOWN HAVE BEEN TAKEN RECORD DRAWINGS ACTUAL SIGN DIMENSIONS & FEATURES TO BE REMOVED MAY VARY.
2. NO DISTINCTION IN SIGN TYPE WILL BE MADE FOR PAYMENT RELATED TO SIGN REMOVAL.



COMPLETED BASE MOUNTED
LIGHT REMOVAL
N.T.S.



EXISTING BASE MOUNTED FOUNDATION
TO RE REMOVED
N.T.S.

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JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-EL507.DWG
DESIGNED BY:	WDP/EMH
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

SIGN BASE AND LIGHT REMOVAL DETAIL

EL507

SHEET 58 OF 72

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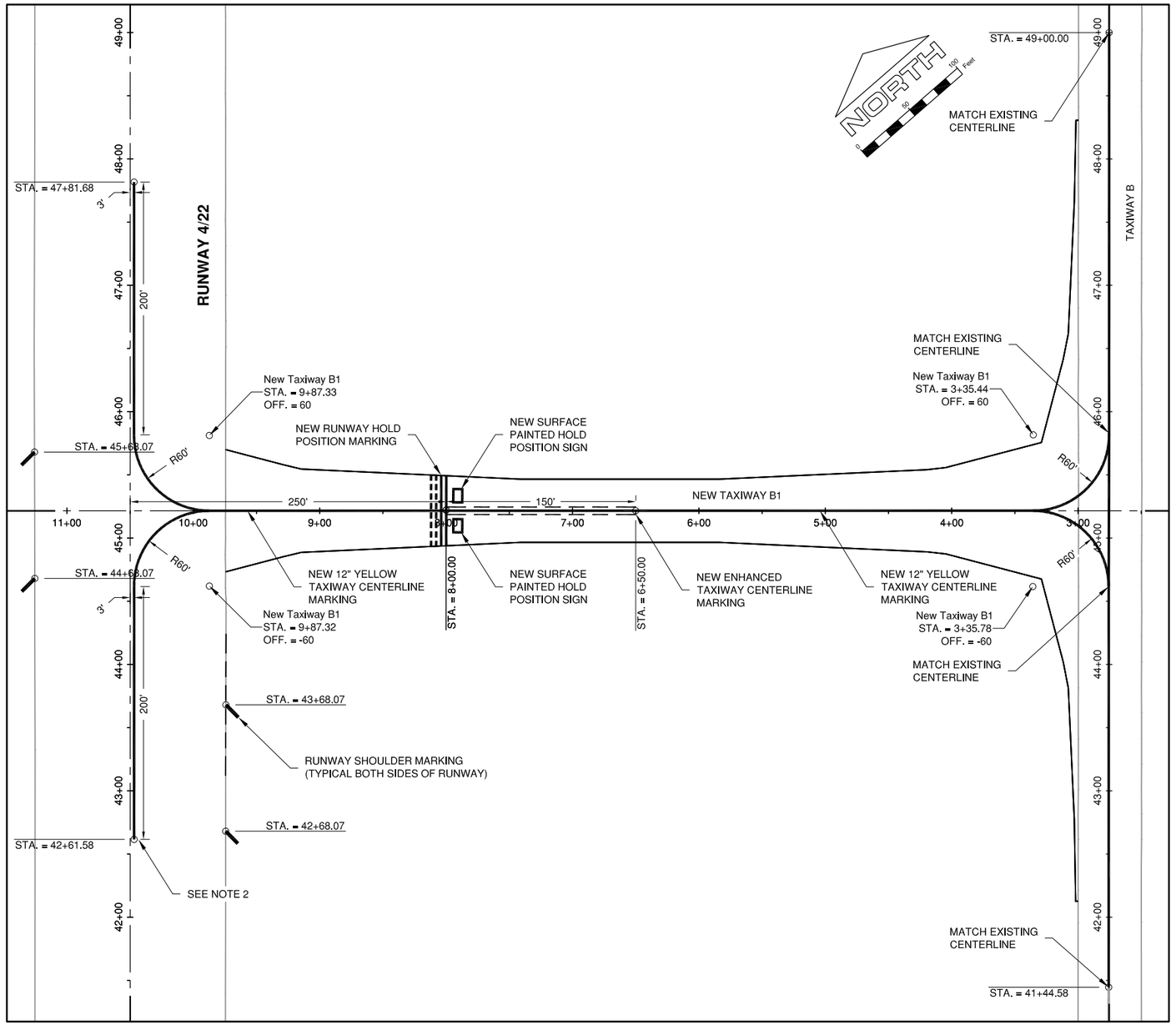
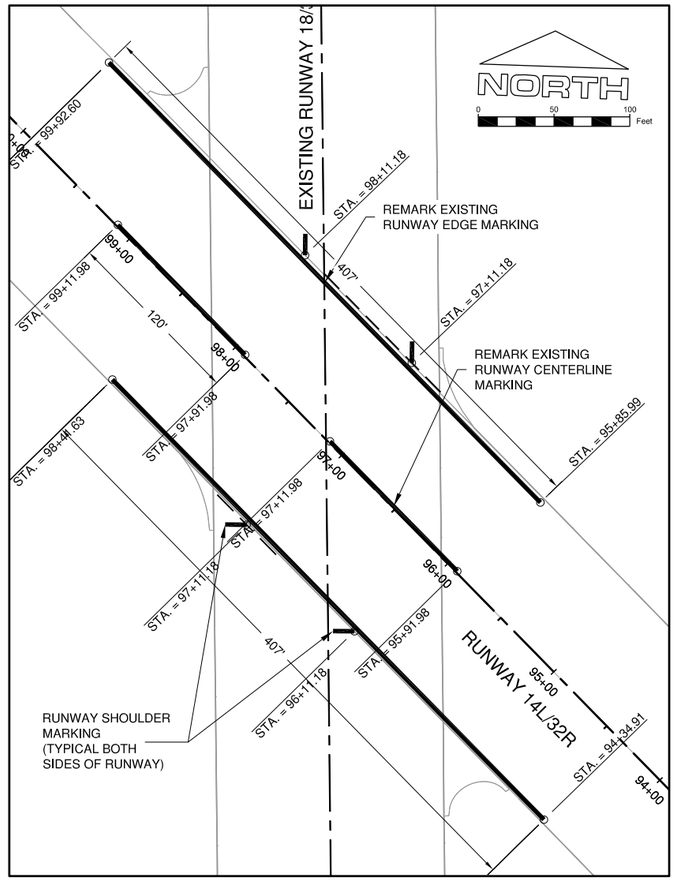




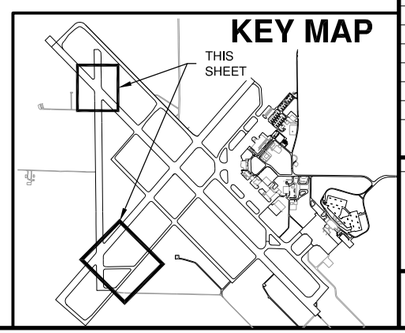
NOTES:

1. RUNWAY HOLD POSITION MARKING SHALL BE LOCATED AT THE SAME STATION AS THE RUNWAY HOLD POSITION SIGN.
2. DISTANCE BETWEEN NEW CENTERLINE AND EXISTING CENTERLINE SHALL BE 3.0' FROM INSIDE EDGE TO INSIDE EDGE.
3. MARKINGS ON RUNWAY 14L/32R SHALL NOT BE DONE UNTIL RUNWAY 18/36 HAS BEEN REMOVED AND BACKFILLED.

LEGEND

- EXISTING MARKING
- NEW TAXIWAY CENTERLINE MARKING
- NEW ENHANCED TAXIWAY CENTERLINE MARKING
- RUNWAY HOLD SIGN POSITION MARKING
- NEW SURFACE PAINTED HOLD POSITION SIGN
- NEW RUNWAY EDGE MARKING
- NEW RUNWAY CENTERLINE MARKING

KEY MAP



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JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-CM101.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

MARKING PLAN

CM101

SHEET 59 OF 72

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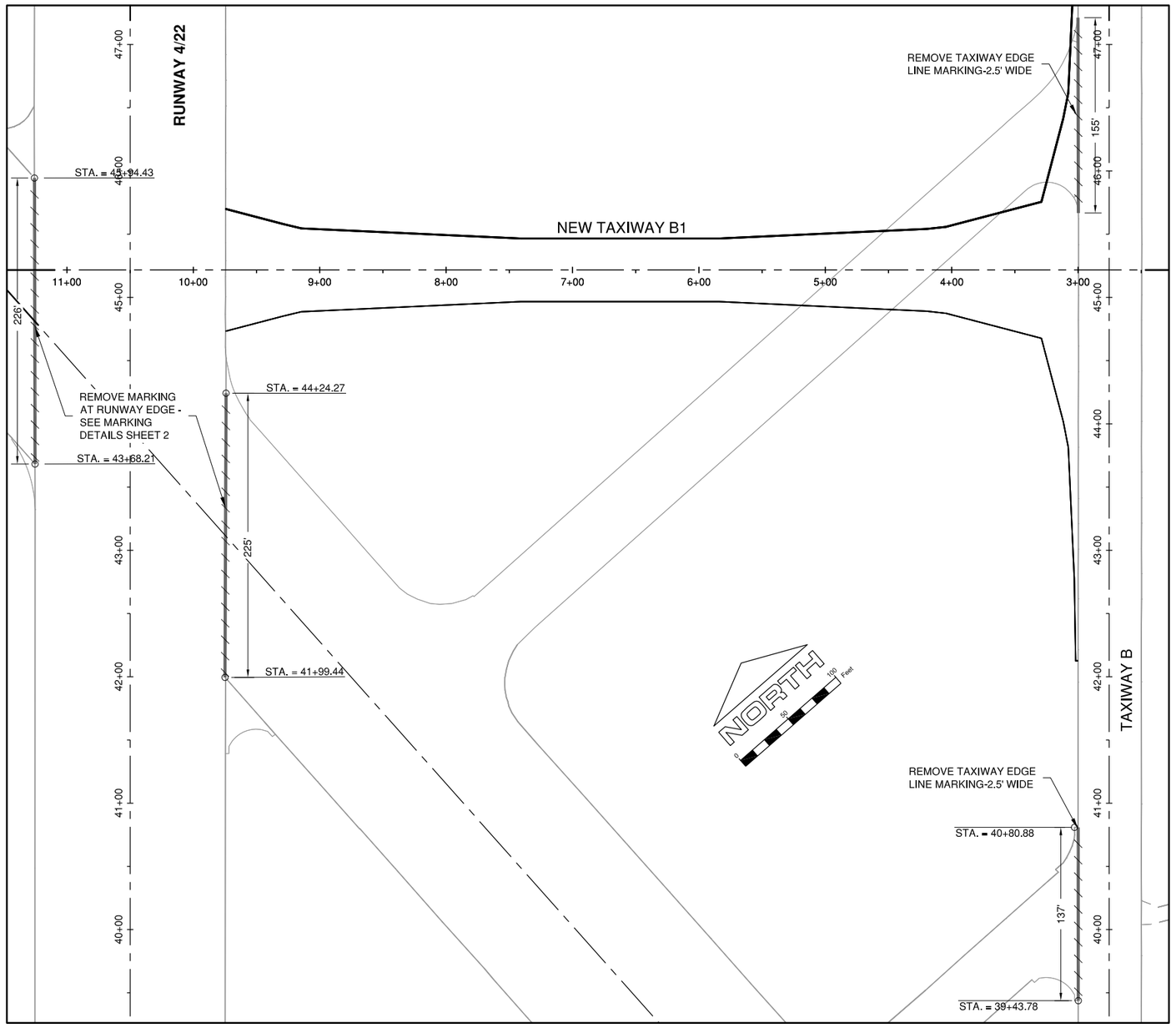
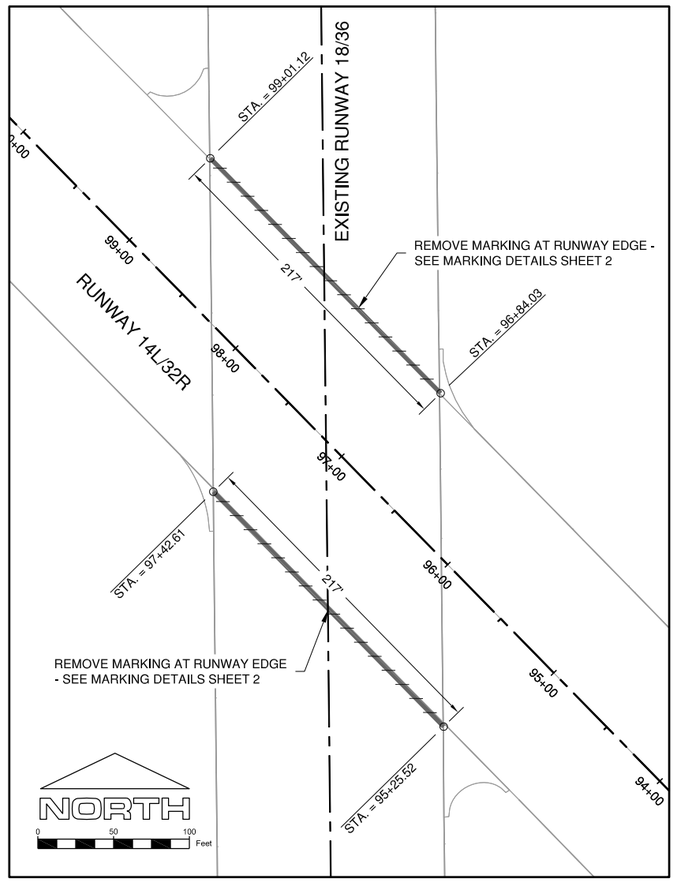


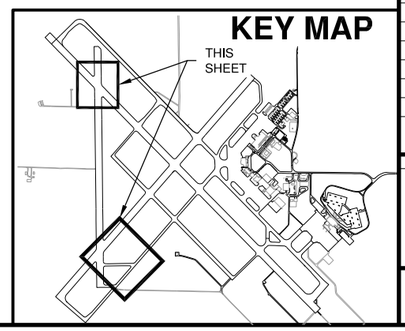


LEGEND

MARKING REMOVAL

NOTES:

1. EXISTING MARKINGS SHALL BE REMOVED AT THE LOCATIONS SHOWN OR AS DIRECTED BY THE RESIDENT ENGINEER.



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License No. 184-000613

CONSULTANTS

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JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-CM102.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

MARKING REMOVAL PLAN

CM102

SHEET 60 OF 72

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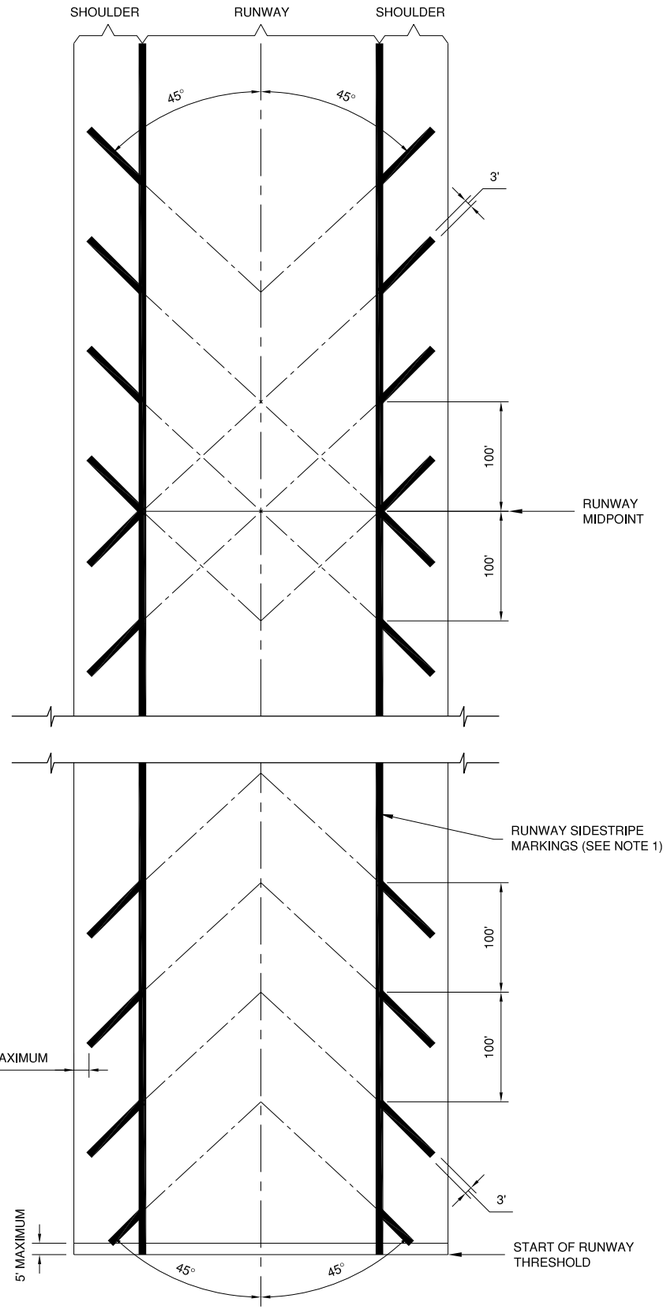
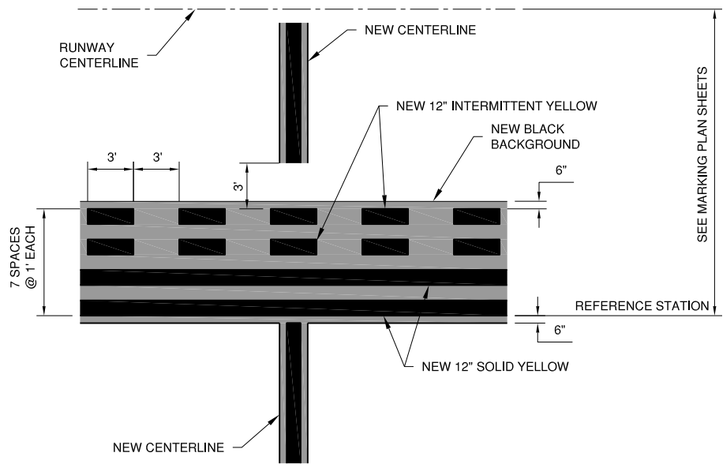


NOTE

1. RUNWAY SHOULDER MARKINGS ARE USED ONLY IN CONJUNCTION WITH RUNWAY SIDE STRIPE MARKINGS

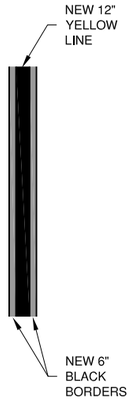
1 RUNWAY SHOULDER MARKING
N.T.S.



HOLDLINE NOTE

1. ON TAXIWAYS WITHOUT SHOULDER OR EDGE MARKING, CONTINUE INTERMITTENT DASH UNTIL EDGE OF PAVEMENT, FINAL DASH NOT TO EXCEED 3' IN LENGTH.

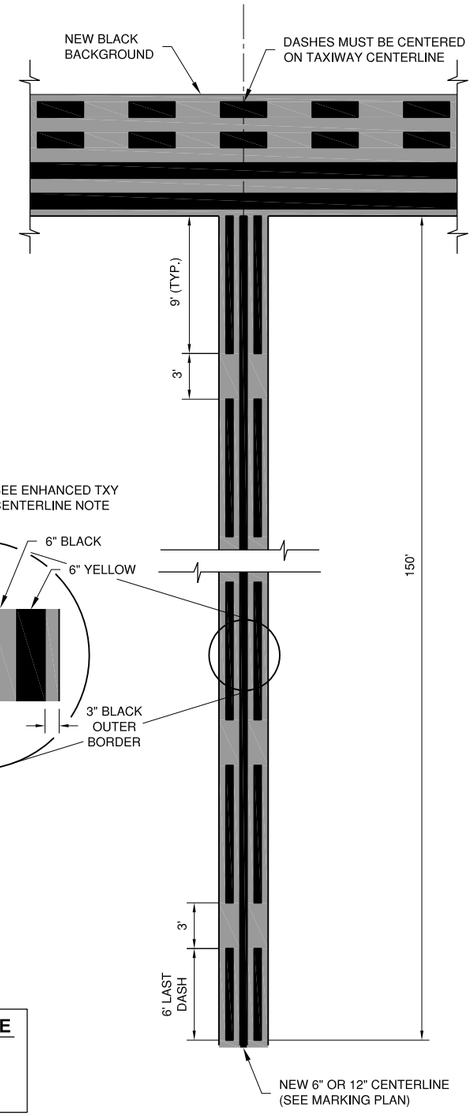
2 HOLD POSITION MARKING
N.T.S.



3 TAXIWAY CENTERLINE CONTINOUS
N.T.S.

MARKING NOTE

1. ALL NEW WATER BORNE PAVEMENT MARKING (RED, YELLOW, WHITE) WILL BE PAID UNDER AR620520.
2. ALL NEW AIRFIELD PAVEMENT MARKING SHALL HAVE REFLECTIVE BEADS & 6" BLACK BORDER PAID UNDER AR620525.
3. BLACK BORDER DOES NOT RECEIVE REFLECTIVE BEADS.
4. CLOSED 'X' MARKERS DO NOT RECEIVE BLACK BORDERS.



ENHANCED TXY CENTERLINE NOTE

1. REGARDLESS OF CENTERLINE WIDTH, THE DASHED LINES PROVIDED BY THE ENHANCEMENTS WILL ALWAYS BE 6" IN WIDTH.

4 ENHANCED TAXIWAY CENTERLINE
N.T.S.

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OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-CM501.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

MARKING DETAILS
SHEET 1

CM501

SHEET 61 OF 72

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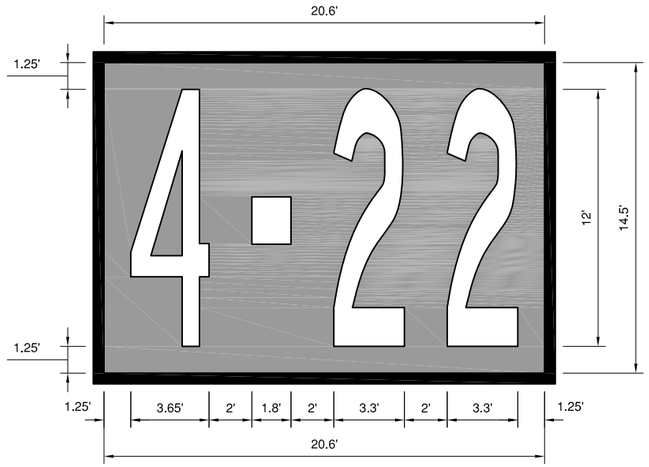
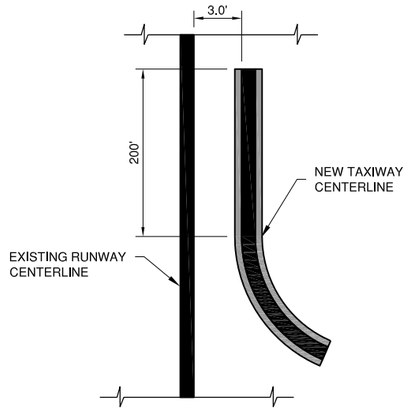


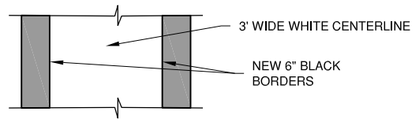
NOTES:

1. SPHP SHALL BE PREFORMED THERMO PLASTIC - AR620555.
2. THE DASH USED WITH 12' TALL NUMBERS AND LETTERS SHALL BE 2.1' TALL AND 1.8' WIDE.
3. THE NUMBERS AND LETTERS USED SHALL CONFORM IN STYLE AND APPEARANCE TO THOSE USED IN APPENDIX 1 OF THE FAA AIRPORT ADVISORY CIRCULAR 150/5340-1L.
4. ON A CURVED TAXIWAY, THE MARKING SHALL REMAIN PARALLEL TO THE HOLD LINE MARKING.
5. THE SURFACE PAINTED HOLDING POSITION MARKING SHALL BE 3' TO 10' FROM THE CENTER OF THE CENTERLINE AND AT LEAST 2' FROM THE EDGE OF THE TAXIWAY. THESE SHALL BE MEASURED TO THE CLOSEST CORNER OF THE SURFACE PAINTED HOLDING POSITION MARKING.
6. ALL NEW AIRFIELD MARKINGS SHALL HAVE REFLECTIVE BEADS, INCLUDING RED PAVEMENT MARKING.
7. BLACK BORDER DOES NOT RECEIVE REFLECTIVE BEADS.

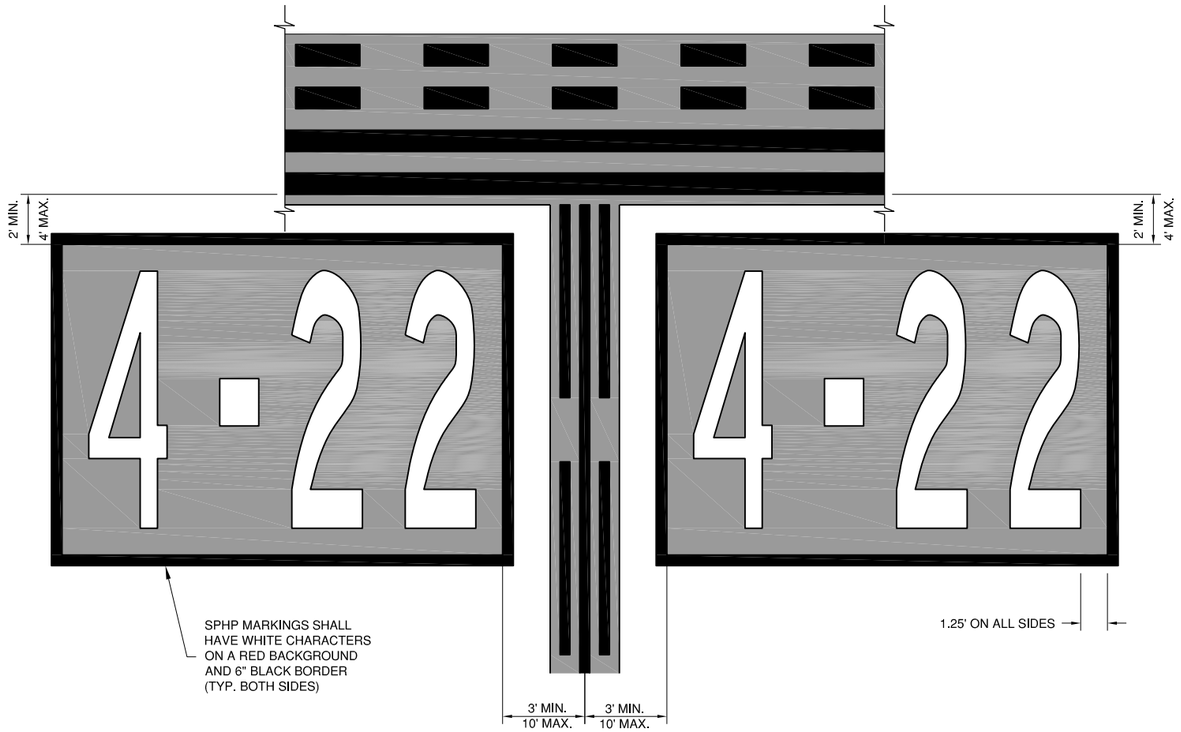
1 SURFACE PAINTED HOLDING POSITION SIGNS
N.T.S.

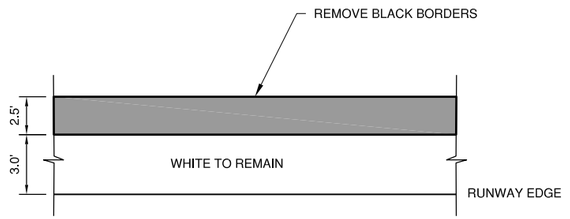


2 TAXIWAY CENTERLINE TO RUNWAY CENTERLINE DETAIL
N.T.S.



3 RUNWAY CENTERLINE DETAIL
N.T.S.





4 RUNWAY EDGE MARKING REMOVAL DETAIL
N.T.S.

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JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-CM502.DWG
DESIGNED BY:	EMH
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

MARKING DETAILS
SHEET 2

CM502

SHEET 62 OF 72

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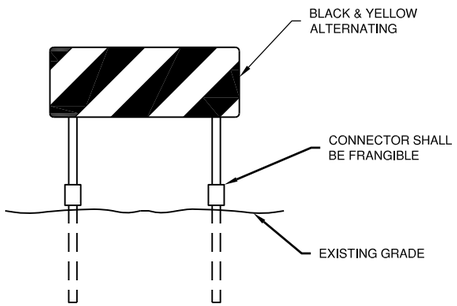
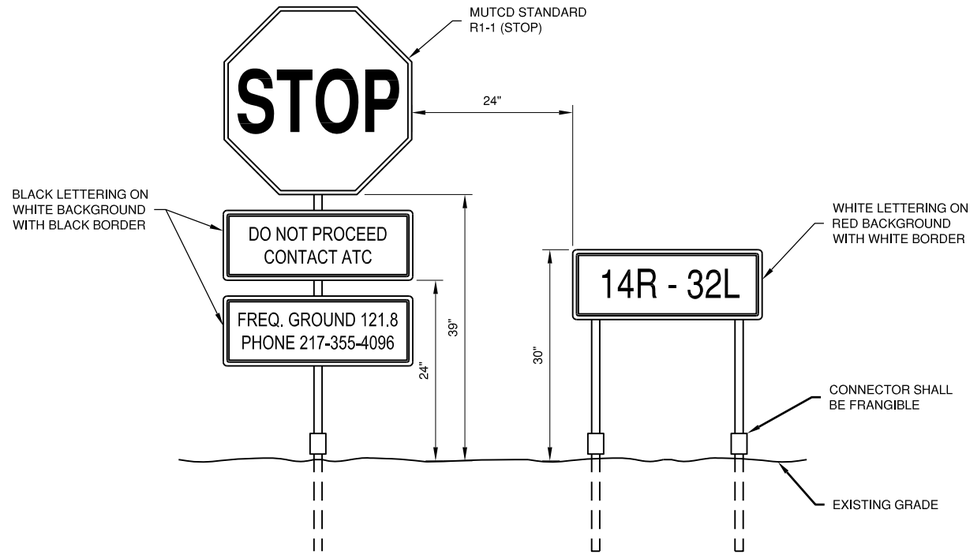
Date: Tuesday, June 7, 2016 5:00:17 PM



TAXIWAY ENDING MARKER

N.T.S.



RUNWAY AND STOP SIGN

N.T.S.

NOTES:

1. SIGN LEGEND AND DIMENSIONS SHALL BE VERIFIED DURING THE SHOP DRAWING PROCESS PRIOR TO FABRICATION.

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JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-CM503.DWG
DESIGNED BY:	EMH/NRF
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

ROADWAY SIGNAGE DETAILS

CM503

SHEET 63 OF 72

Path: K:\Champaign\Ap\1505903\Draw\Sheets\CMI4503-1505903-CM503.dwg
Date: Tuesday, June 7, 2016 5:00:29 PM

TAXIWAY C

RUNWAY 18/36 REMOVAL
NORTH OF 14L
- SEED & MULCH

EXISTING
VEGETATION
BUFFER

TAXIWAY INFIELD
BORROW SITE
SEED & MULCH

75+00

70+00

REMOVED RUNWAY 18/36

65+00

RUNWAY 14L/32R

NEW SOD & KNITTED
STRAWMAT AT PAVEMENT
REMOVAL LIMITS

RUNWAY 14L/32R

NORTH
0 100 200 Feet

60+00

REMOVED RUNWAY 18/36

EXISTING
VEGETATION
BUFFER

RUNWAY 18/36 REMOVAL
SOUTH OF 14L
- SEED & MULCH

55+00

LEGEND

NEW SEEDING (901) & MULCHING (908)

NEW SOD (904) / KNITTED STRAW MAT (908)

NEW INLET PROTECTION (AR156500
TEMPORARY EROSION CONTROL)

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Date: Tuesday, June 7, 2016 5:50:58 PM

CMT

License No. 184-000613

CONSULTANTS

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JUNE 3, 2016

REMOVE RUNWAY 18/36
PAVEMENT & CLOSED TAXIWAY
B1/B2 PAVEMENT; CONSTRUCT
NEW TAXIWAY B1 TO CONNECT
TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX

IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056

CMT PROJECT NO: 15059-03-00

CAD DWG FILE: CMI4503-1505903-LG401.DWG

DESIGNED BY: CBG

DRAWN BY: DPA

CHECKED BY: JEF

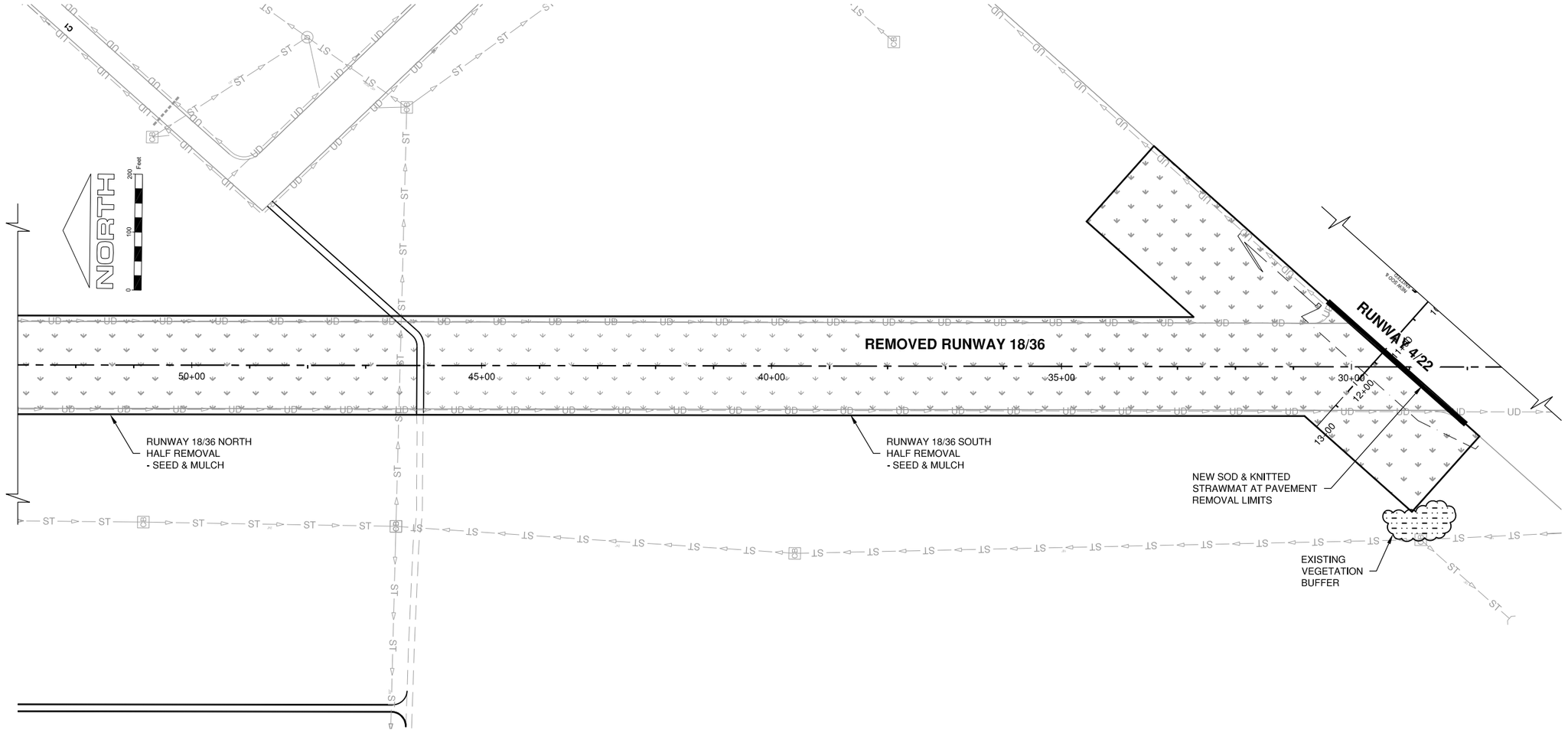
APPROVED BY: CBG

SHEET TITLE

EROSION CONTROL & TURFING PLAN 1

LG401

SHEET 64 OF 72



LEGEND

NEW SEEDING (901) & MULCHING (908)

NEW SOD (904) / KNITTED STRAW MAT (908)

NEW INLET PROTECTION (AR156500
TEMPORARY EROSION CONTROL)

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Date: Tuesday, June 7, 2016 5:01:33 PM

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX

IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056

CMT PROJECT NO: 15059-03-00

CAD DWG FILE: CMI4503-1505903-LG401.DWG

DESIGNED BY: CBG

DRAWN BY: DPA

CHECKED BY: JEF

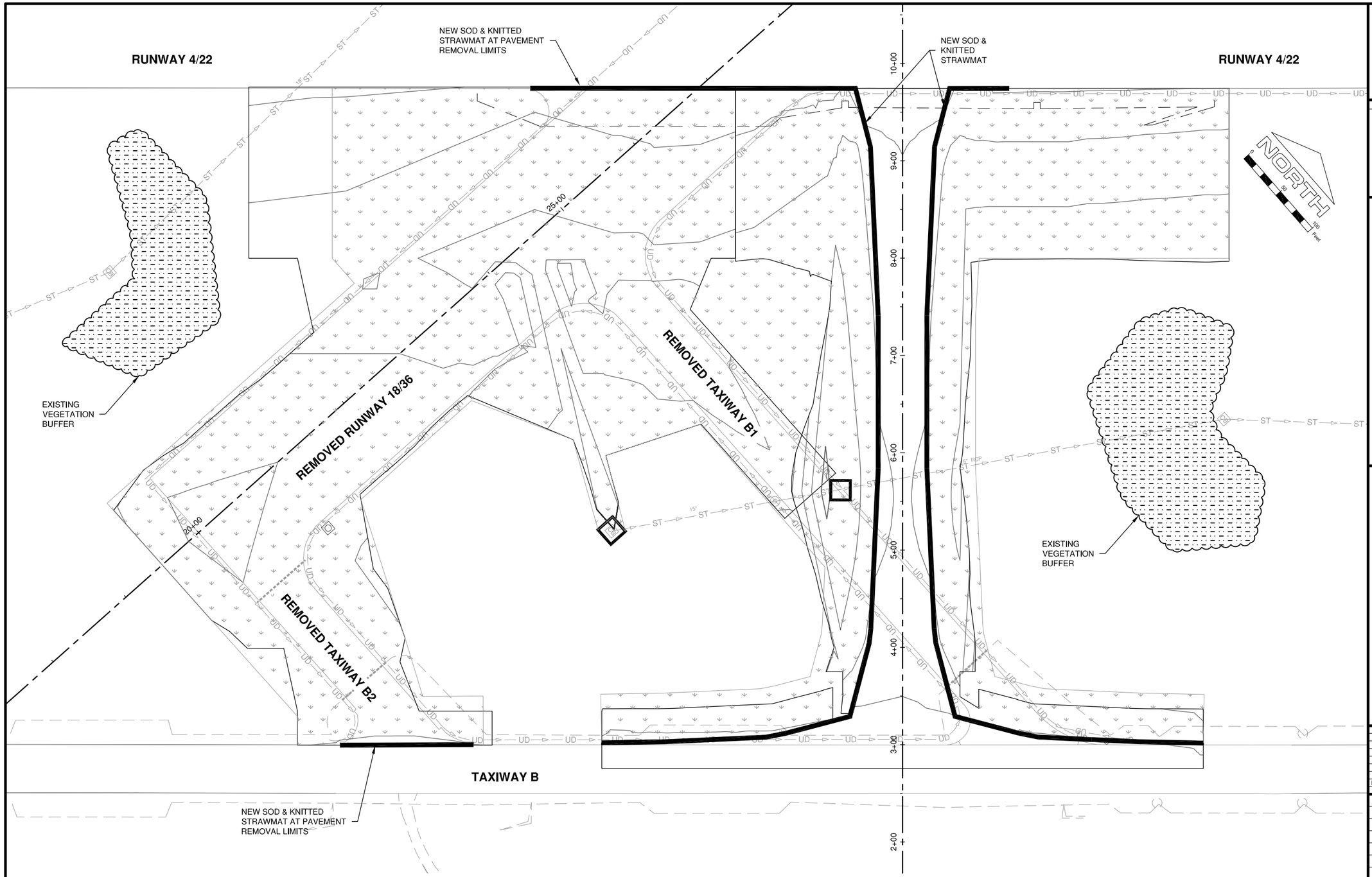
APPROVED BY: CBG

SHEET TITLE

EROSION CONTROL & TURFING PLAN 2

LG402

SHEET 65 OF 72



LEGEND

- NEW SEEDING (901) & MULCHING (908)
- NEW SOD (904) / KNITTED STRAW MAT (908)
- NEW INLET PROTECTION (AR156500 TEMPORARY EROSION CONTROL)

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JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO:	15059-03-00
CAD DWG FILE:	CMI4503-1505903-LG401.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

EROSION CONTROL & TURFING PLAN 3

LG403

SHEET 66 OF 72

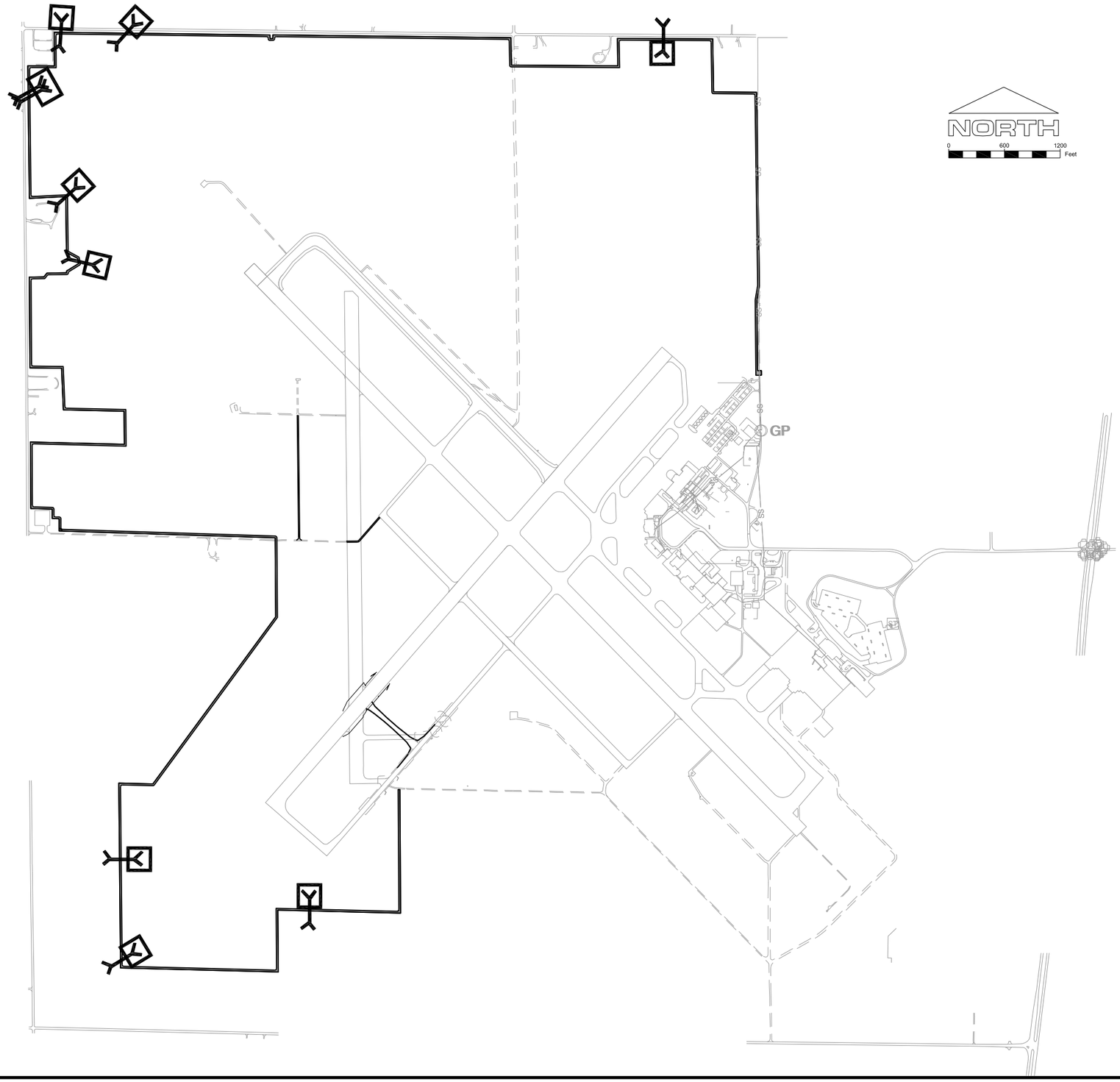
LEGEND

NEW SEEDING (901) & MULCHING (908)

NEW PIPE PROTECTION

NOTES:

1. SEE PERIMETER ROAD TYPICAL TURN 1 FOR TYPICAL SEED & MULCH LIMITS



NORTH
0 600 1200 Feet

CMT

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JUNE 3, 2016

REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

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UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-LG401.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

EROSION CONTROL & TURFING PLAN 4

LG404

SHEET 67 OF 72

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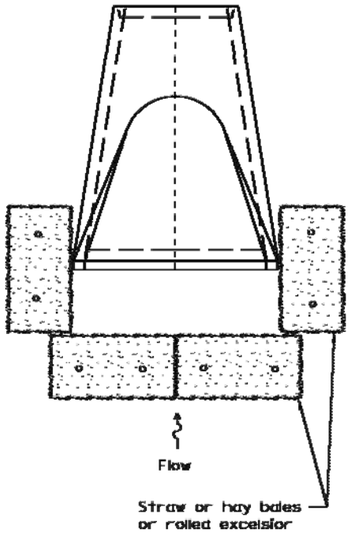

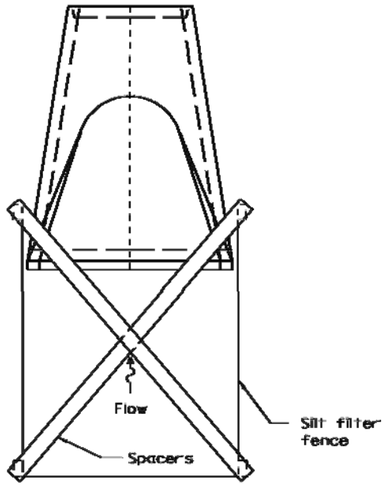

PIPE PROTECTION

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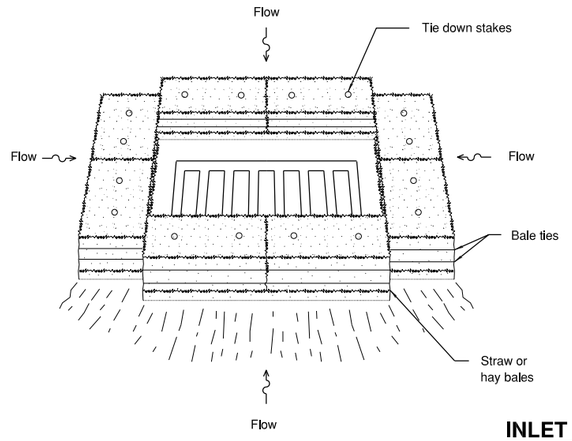

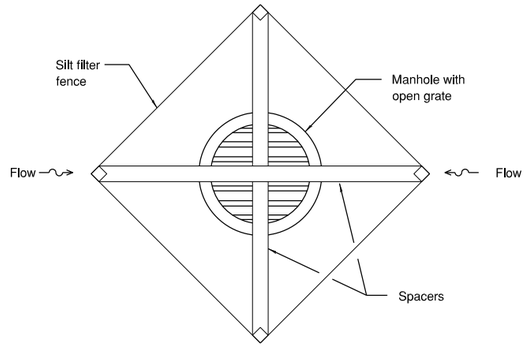

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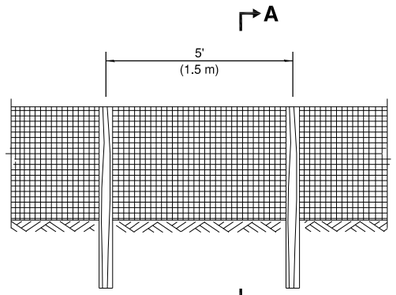
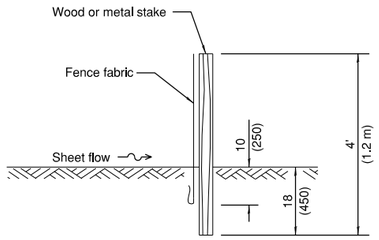


ELEVATION

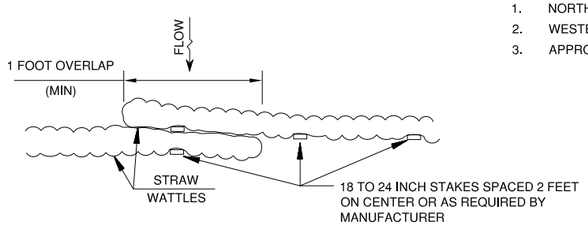


SLICE METHOD

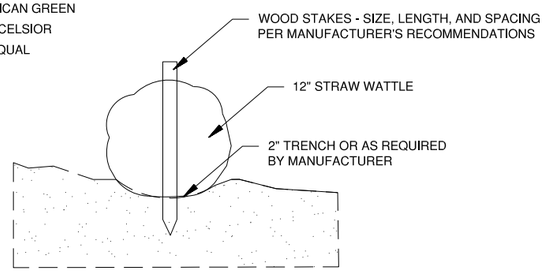
SILT FILTER FENCE AS A PERIMETER EROSION BARRIER

MANUFACTURERS:

1. NORTH AMERICAN GREEN
2. WESTERN EXCELSIOR
3. APPROVED EQUAL



PLAN



SECTION

STRAW WATTLES

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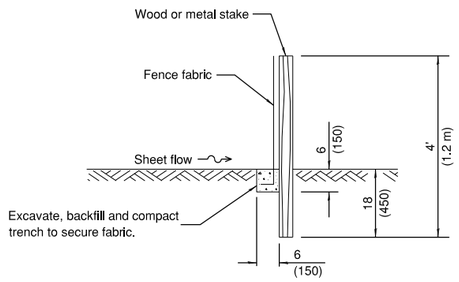

TRENCH METHOD

SECTION A-A

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CONSULTANTS

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REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00	
CAD DWG FILE:	CMI4503-1505903-LG501.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG
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SHEET TITLE

EROSION CONTROL DETAILS

LG501

SHEET 68 OF 72

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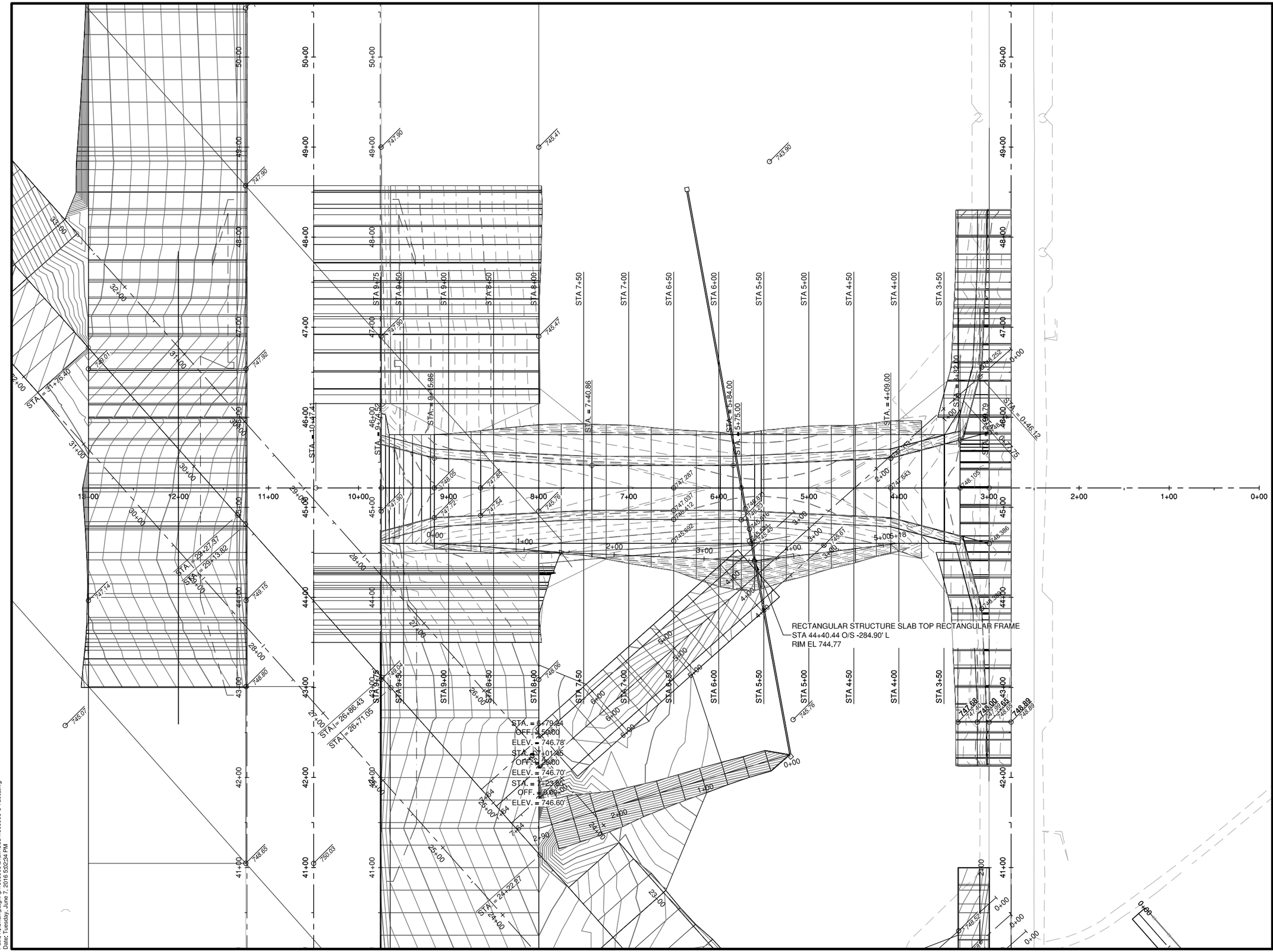

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JUNE 3, 2016

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OWNER

CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO:	15059-03-00
CAD DWG FILE:	1505903-C-7200.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

INDEX TO CROSS SECTIONS

CG101

SHEET 69 OF 72

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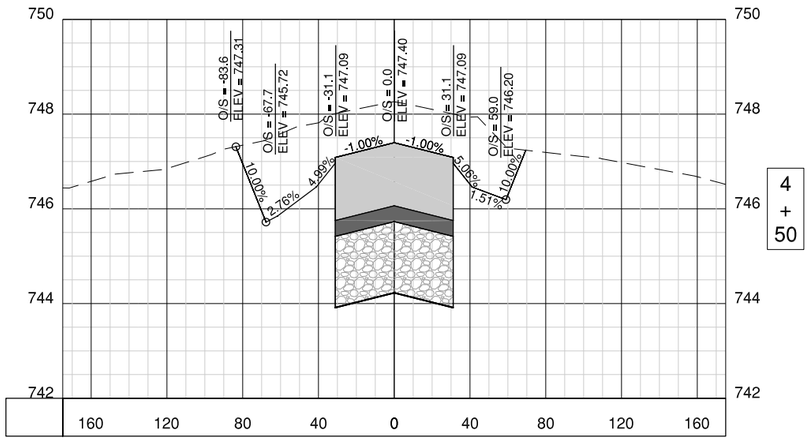

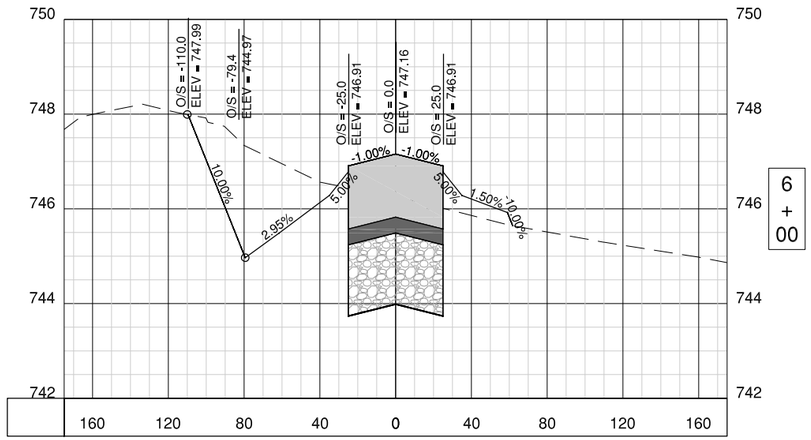

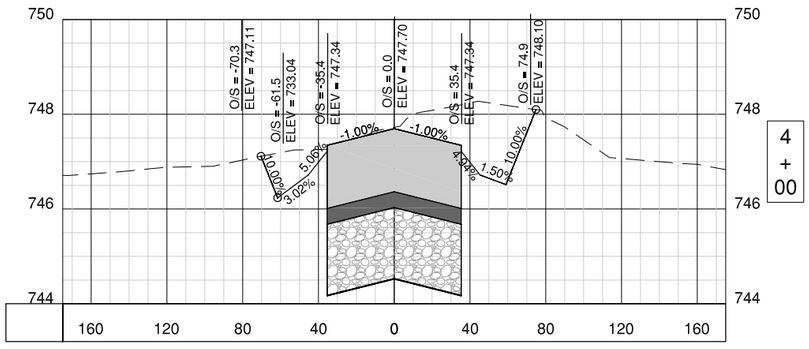

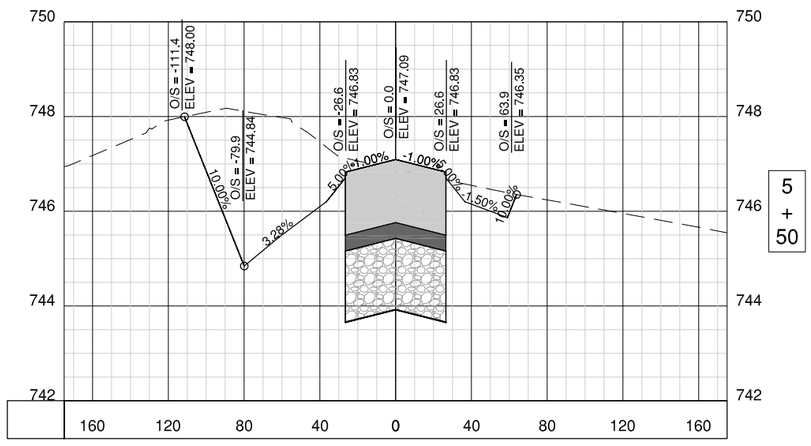

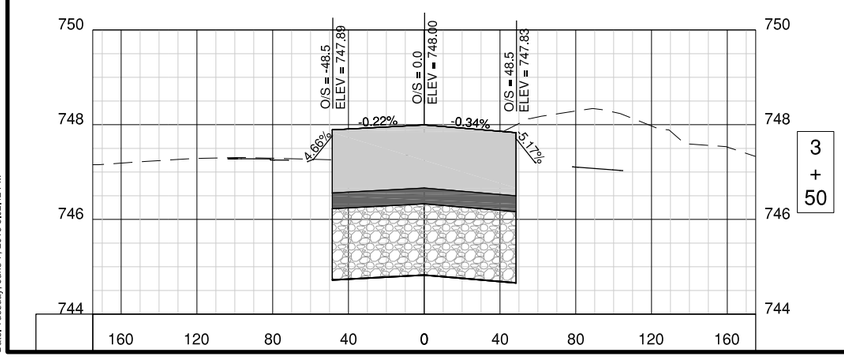

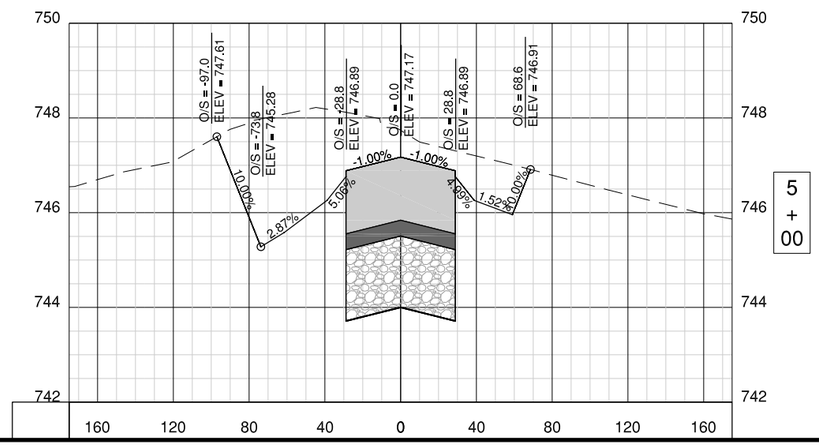

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REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX	
IL. PROJ. NO. CMI-4503	CONTRACT NO. UN056
CMT PROJECT NO:	15059-03-00
CAD DWG FILE:	1505903-C-7200.DWG
DESIGNED BY:	CBG
DRAWN BY:	DPA
CHECKED BY:	JEF
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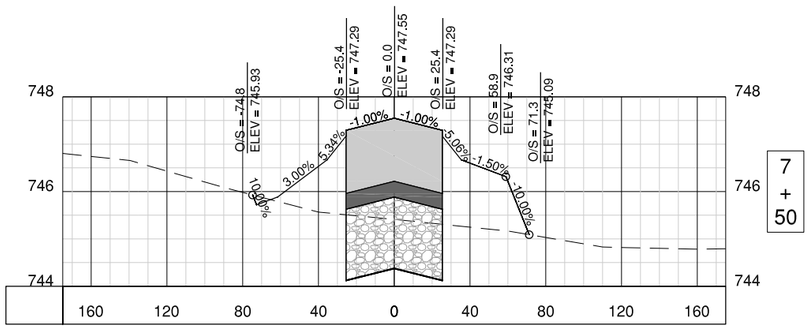
SHEET TITLE

CROSS SECTIONS SHEET 1

CG701

SHEET 70 OF 72



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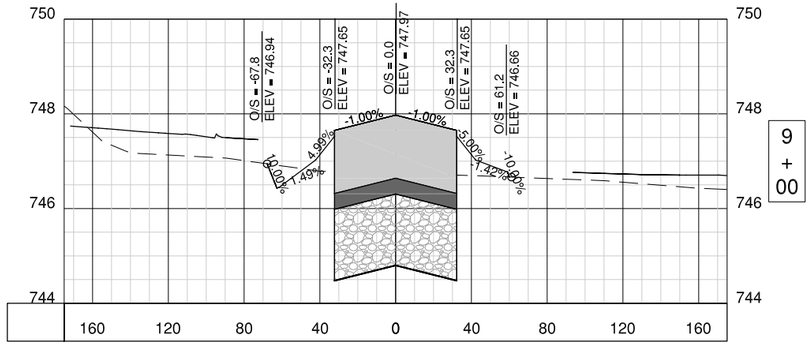

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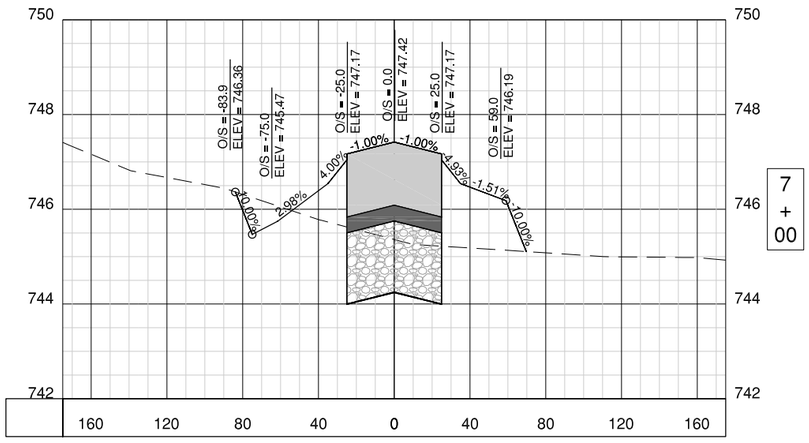

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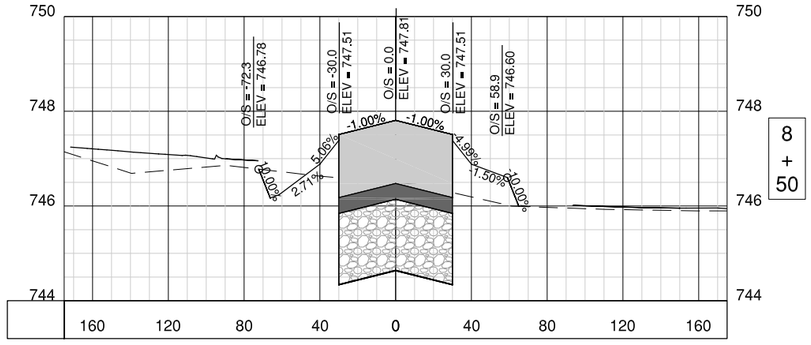

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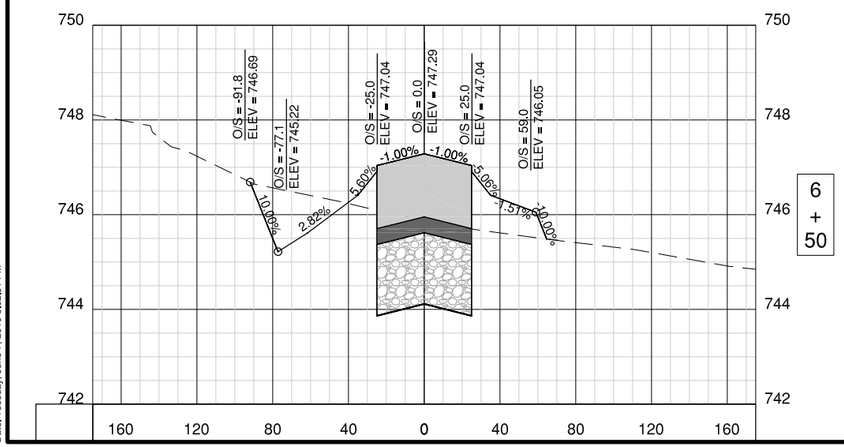

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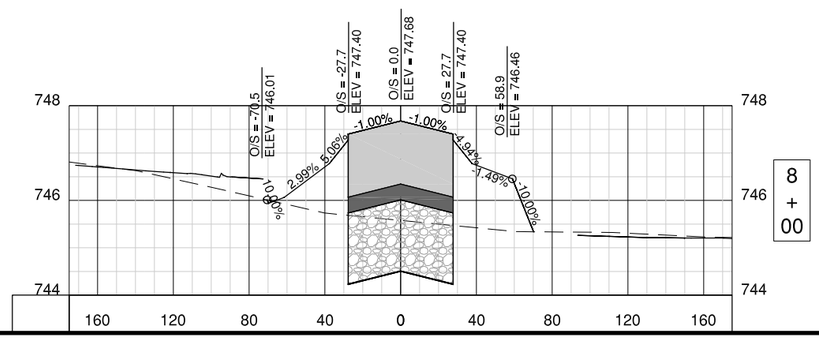

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CONSULTANTS

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REMOVE RUNWAY 18/36 PAVEMENT & CLOSED TAXIWAY B1/B2 PAVEMENT; CONSTRUCT NEW TAXIWAY B1 TO CONNECT TAXIWAY B TO RUNWAY 4/22

OWNER

FLY CHAMPAIGN URBANA

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX
IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056
CMT PROJECT NO: 15059-03-00
CAD DWG FILE: 1505903-C-7200.DWG
DESIGNED BY: CBG
DRAWN BY: DPA
CHECKED BY: JEF
APPROVED BY: CBG

SHEET TITLE

CROSS SECTIONS SHEET 2

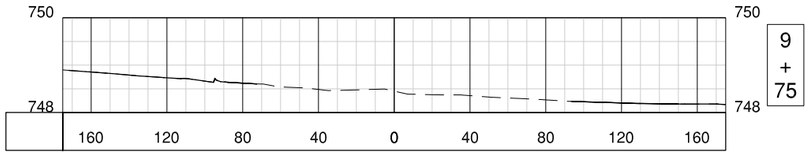
CG702

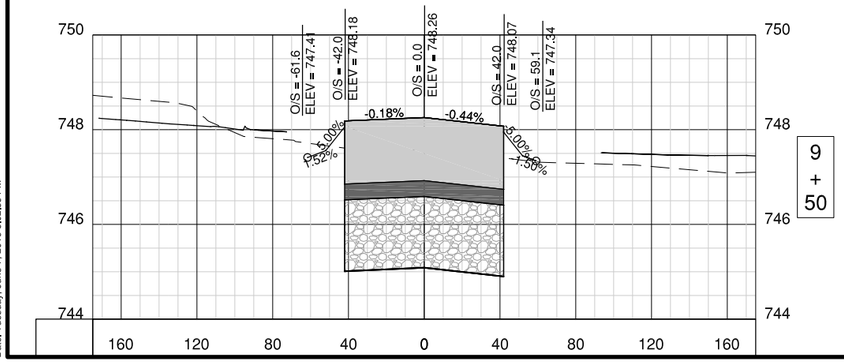
SHEET 71 OF 72

EARTH WORK VOLUME							
STATION	CUT AREA (S.F.)	FILL AREA (S.F.)	CUT VOL. (C.Y.)	CUM. CUT VOL. (C.Y.)	FILL VOL. (C.Y.)	CUM. FILL VOL. (C.Y.)	CUM. TOTAL VOL. (C.Y.)
3+50.00	335.98	2.56	0	0	0	0	0
4+00.00	308.40	0.03	597	597	2	2	594
4+50.00	363.89	0.00	622	1219	0	2	1217
5+00.00	386.69	0.00	695	1914	0	2	1912
5+50.00	339.01	0.02	672	2586	0	2	2584
6+00.00	214.91	14.58	513	3099	14	16	3083
6+50.00	129.15	32.98	319	3418	44	60	3358
7+00.00	75.23	69.18	189	3607	95	155	3452
7+50.00	60.14	84.57	125	3732	142	297	3435
8+00.00	68.22	76.39	119	3851	149	446	3405
8+50.00	127.39	29.01	181	4032	98	544	3488
9+00.00	141.09	15.09	249	4281	41	584	3696
9+50.00	215.12	8.49	330	4610	22	606	4004
9+75.00	0.00	0.00	100	4710	4	610	4100

NOTES

1. CUT VOLUME ABOVE INCLUDES ± 700 CY OF PAVEMENT REMOVAL. ACTUAL VOLUME OF UNCLASSIFIED EXCAVATION WILL BE 4000 CY. (AR152410)





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License No. 184-000613

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UNIVERSITY OF ILLINOIS
WILLARD AIRPORT
SAVOY, ILLINOIS

MARK	DATE	DESCRIPTION

AIP PROJ. NO. 3-17-0006-XX

IL. PROJ. NO. CMI-4503 CONTRACT NO. UN056

CMT PROJECT NO:	15059-03-00
CAD DWG FILE:	1505903-C-7200.DWG
DESIGNED BY:	EMH/NRF
DRAWN BY:	DPA
CHECKED BY:	JEF
APPROVED BY:	CBG

SHEET TITLE

CROSS SECTIONS
SHEET 3

CG703

SHEET 72 OF 72