

CONSTRUCTION PLANS
FOR
UNIVERSITY OF ILLINOIS - WILLARD AIRPORT

ILLINOIS PROJECT CMI-4099
A. I. P. PROJECT 3-17-0016-XX

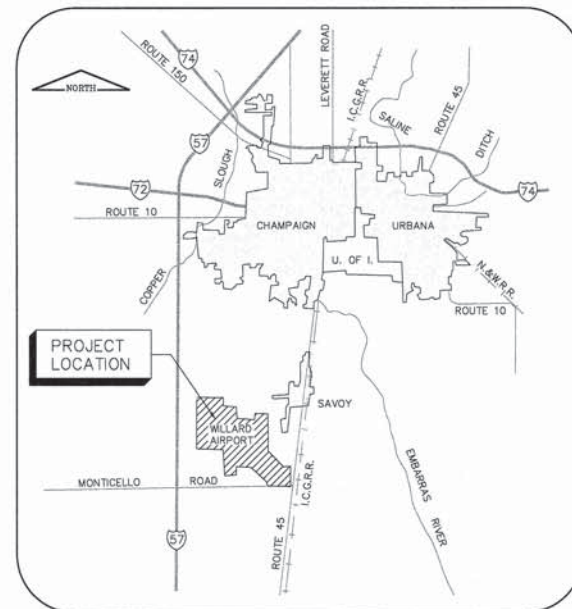
**IMPROVE GEOMETRY AT THE INTERSECTION
TAXIWAY A & B; WIDEN TAXIWAY A TO 75'
FROM TAXIWAY A5 TO TAXIWAY B**

JUNE 17, 2011

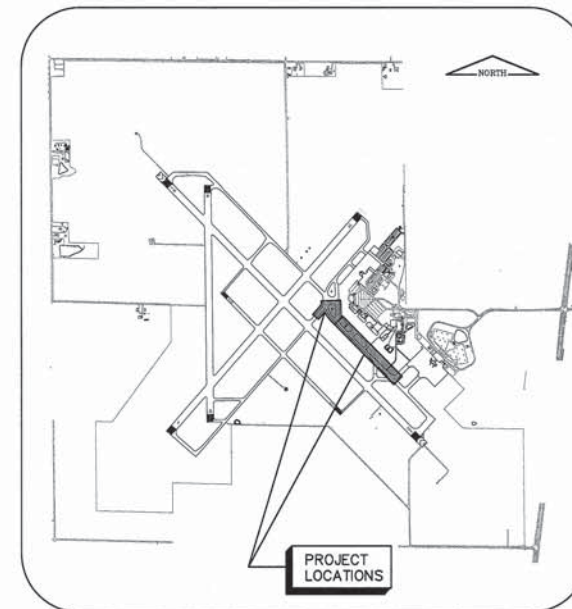
ce-13-2011



Christopher B. Groth
Exp 11-30-2011



LOCATION MAP



SITE PLAN

GROUND CONTROL RADIO FREQUENCY - 121.8
ATIS FREQUENCY - 124.85
APPROXIMATE MAXIMUM HEIGHT OF EQUIPMENT
ABOVE GROUND IS 25 FT.

UNIVERSITY OF ILLINOIS
WILLARD AIRPORT

APPROVED *Stephen J. Murphy*
DATE 9 JUNE 2011

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

SUBMITTED BY *Christopher B. Groth*
DATE June 13 2011
CM&T JOB NUMBER 11059-04

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

UNIVERSITY OF ILLINOIS - WILLARD AIRPORT

TOWNSHIP: T 18 N
RANGE: R 8 E
COUNTY: CHAMPAIGN

APRON

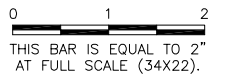
DESIGN GROUP - GROUP IV
WINGSPAN - UP TO BUT NOT INCLUDING 171 FT.
DESIGN APPROACH CATEGORY - C

PAVEMENT STRUCTURE DESIGN DATA
GROSS WEIGHT - 60,000 LBS.
DUAL WHEEL GEAR

UN050

REVISIONS

NUMBER	BY	DATE



INDEX OF SHEETS	
SHEET NO.	SHEET TITLE
1	COVER SHEET
2	INDEX TO SHEETS AND SUMMARY OF QUANTITIES
3	GENERAL NOTES
4	AIRPORT SITE PLAN
5	CONSTRUCTION ACTIVITY PLAN INDEX
6	CONSTRUCTION ACTIVITY PLAN PHASE 1
7	CONSTRUCTION ACTIVITY PLAN PHASE 2
8	EXISTING CONDITIONS & REMOVALS 1
9	EXISTING CONDITIONS & REMOVALS 2
10	PROPOSED IMPROVEMENTS 1
11	PROPOSED IMPROVEMENTS 2
12	TYPICAL SECTIONS 1
13	TYPICAL SECTIONS 2
14	STAKING PLAN 1
15	STAKING PLAN 2
16	UNDERDRAIN PLAN 1
17	UNDERDRAIN PLAN 2
18	UNDERDRAIN DETAIL
19	LIGHTING PLAN 1
20	LIGHTING PLAN 2
21	ELECTRICAL DETAILS 1
22	ELECTRICAL DETAILS 2
23	DUCT DETAIL
24	AIRFIELD SIGNAGE DETAIL
25	MARKING PLAN
26	EROSION CONTROL
27	TAXIWAY A CROSS SECTIONS SHEET 1 STA. 116+50 TO STA. 122+00
28	TAXIWAY A CROSS SECTIONS SHEET 2 STA. 122+50 TO STA. 128+00
29	TAXIWAY A CROSS SECTIONS SHEET 3 STA. 128+50 TO STA. 135+50

SUMMARY OF QUANTITIES			
ITEM NO.	Description	UNIT	QUANTITY
AR108158	1/C #8 5 KV UG CABLE IN UD	LF	6,150
AR108706	1/C #6 COUNTERPOISE	LF	3,705
AR800250	2 1/C#8 5KV UG CABLE IN UD	LF	1,400
AR801216	2 - #1 USE, 1 - #6 GND IN UD	LF	450
AR110554	EXTEND 4-WAY DUCT	LF	215
AR125443	TAXI GUIDANCE SIGN, 3 CHARACTER	EA	1
AR125444	TAXI GUIDANCE SIGN, 4 CHARACTER	EA	5
AR125445	TAXI GUIDANCE SIGN, 5 CHARACTER	EA	2
AR125450	TAXI GUIDANCE SIGN, 10 CHARACTER	EA	1
AR125415	MITL-BASE MOUNTED	EA	68
AR125565	SPLICE CAN	EA	8
AR125901	REMOVE STAKE MOUNTED LIGHT	EA	56
AR125902	REMOVE BASE MOUNTED LIGHT	EA	13
AR125904	REMOVE TAXI GUIDANCE SIGN	EA	10
AR150510	ENGINEER'S FIELD OFFICE	LS	1
AR152410	UNCLASSIFIED EXCAVATION	CY	2,260
AR156510	SILT FENCE	LF	2,000
AR156520	INLET PROTECTION	EA	8
AR201670	CRACK CONTROL FABRIC	SY	1,340
AR209610	CRUSHED AGG. BASE COURSE - 10"	SY	5,125
AR401611	BITUMINOUS SURFACE COURSE METHOD I	TON	1,175
AR401650	BITUMINOUS PAVEMENT MILLING	SY	669
AR401921	REMOVE PAVEMENT	SY	330
AR403612	BITUMINOUS BASE COURSE METHOD II	TON	2,960
AR602510	BITUMINOUS PRIME COAT	GAL	2,550
AR603510	BITUMINOUS TACK COAT	GAL	3,010
AR620510	PAVEMENT MARKING	SF	8,950
AR705524	4" PERFORATED UNDERDRAIN W/SOCK	LF	2,653
AR705544	4" NON PERFORATED UNDERDRAIN	LF	595
AR705635	UNDERDRAIN COLLECTION STRUCTURE	EA	5
AR705640	UNDERDRAIN CLEANOUT	EA	9
AR901510	SEEDING	AC	4
AR904510	SODDING	SY	1,300
AR908520	EXCELSIOR BLANKET	SY	1,650
AR908510	MULCHING	AC	4

**WILLARD AIRPORT
UNIVERSITY OF ILLINOIS**

IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A

INDEX TO SHEETS AND SUMMARY OF QUANTITIES

© Copyright CMT, Inc.

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

FINAL PLANS

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL. PROJ. NO. CMI-4099 AIP PROJ. NO. 3-17-0016-XX	
SHEET 2	OF 29 SHEETS

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 FLAGMAN IN RADIO CONTACT WITH FAA AIR TRAFFIC CONTROL TOWER PERSONNEL AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE HIS OWN RADIOS.
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 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 80' FROM THE CENTERLINE OF ACTIVE TAXIWAYS OR 200' 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 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.
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 ARFF VEHICLES SHALL HAVE COMPLETE ACCESS TO THE ENTIRE AIRFIELD INCLUDING THE CLOSURE AREAS.
12. THE CONTRACTOR IS REQUIRED TO GIVE TEN 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 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, MEN AND EQUIPMENT.

CONTRACTOR'S ACCESS

1. CONTRACTOR'S ACCESS SHALL BE AS FOLLOWS:
 - A. THE CONTRACTORS 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 RESIDENT 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 STORAGE 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 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 ENGINEER.
4. THE CONTRACTOR SHALL PROVIDE A SIGN AT THE ACCESS GATE SAYING "AUTHORIZED PERSONNEL ONLY".
5. ALL PERSONNEL ON THE AIRFIELD WILL BE REQUIRED TO SUBMIT A TEN YEAR BACKGROUND CHECK TO AIRPORT SECURITY.

UN050

REVISIONS

NUMBER	BY	DATE

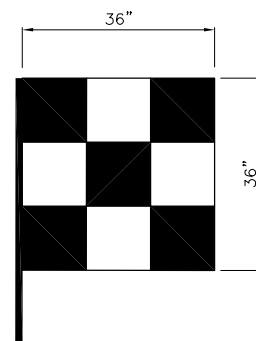
0 1 2
 THIS BAR IS EQUAL TO 2"
 AT FULL SCALE (34X22).

WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS
 IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
 GENERAL NOTES

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 UNDERGROUND 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.



VEHICLE SIGNAL FLAG
 (ORANGE / WHITE)

N.T.S.

GROUND CONTROL FREQUENCY 121.8 MHZ

MAXIMUM EQUIPMENT HEIGHT 25 FEET

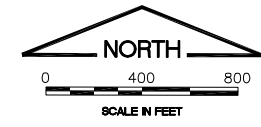
© Copyright CMT, Inc.

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613



FINAL PLANS

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CET
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL. PROJ. NO. CMI-4099 AIP PROJ. NO. 3-17-0016-XX	
SHEET	3 OF 29 SHEETS

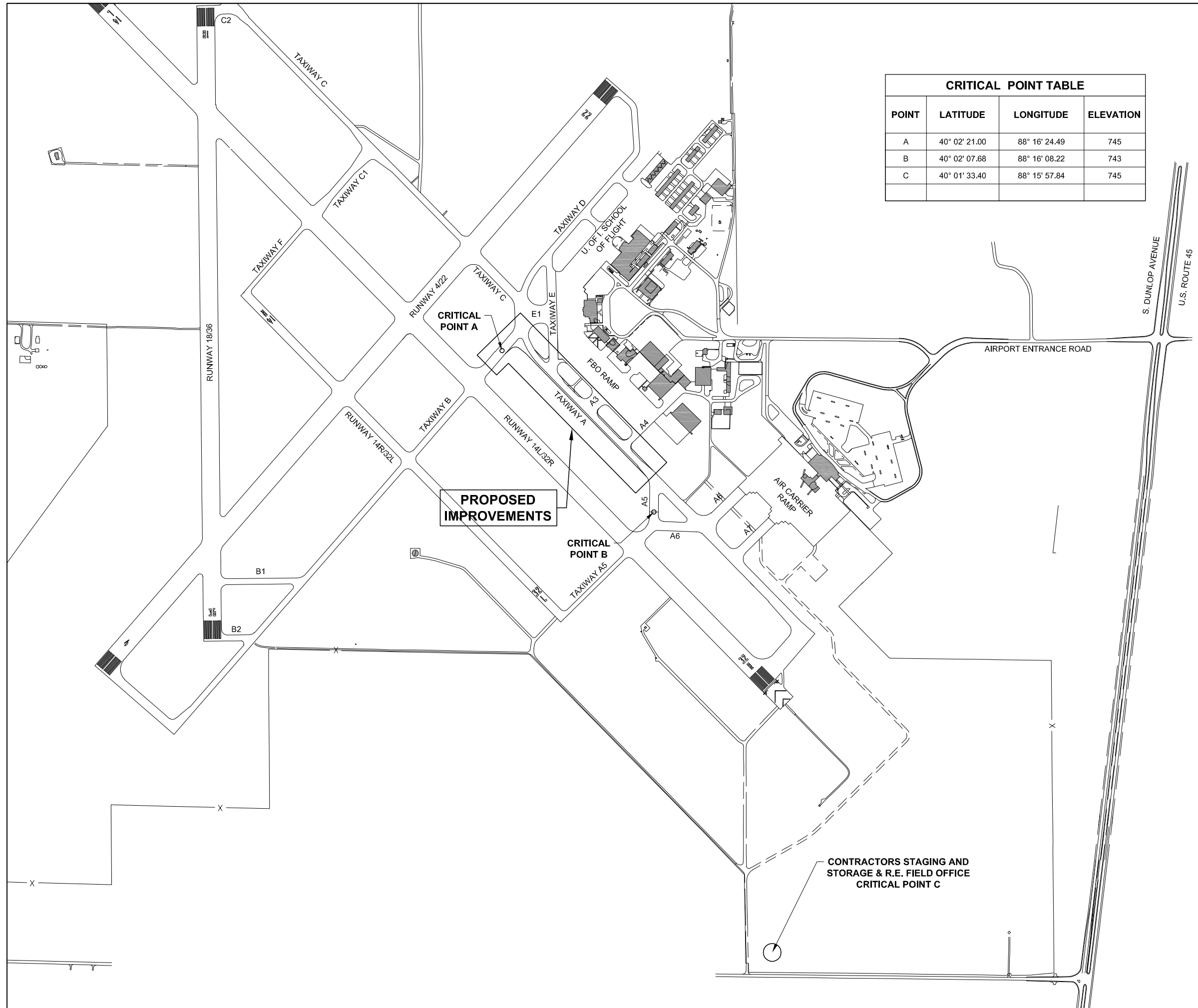


CRITICAL POINT TABLE			
POINT	LATITUDE	LONGITUDE	ELEVATION
A	40° 02' 21.00	88° 16' 24.49	745
B	40° 02' 07.68	88° 16' 08.22	743
C	40° 01' 33.40	88° 15' 57.84	745

UN050

REVISIONS		
NUMBER	BY	DATE

0 1 2
 THIS BAR IS EQUAL TO 2"
 AT FULL SCALE (34X22).



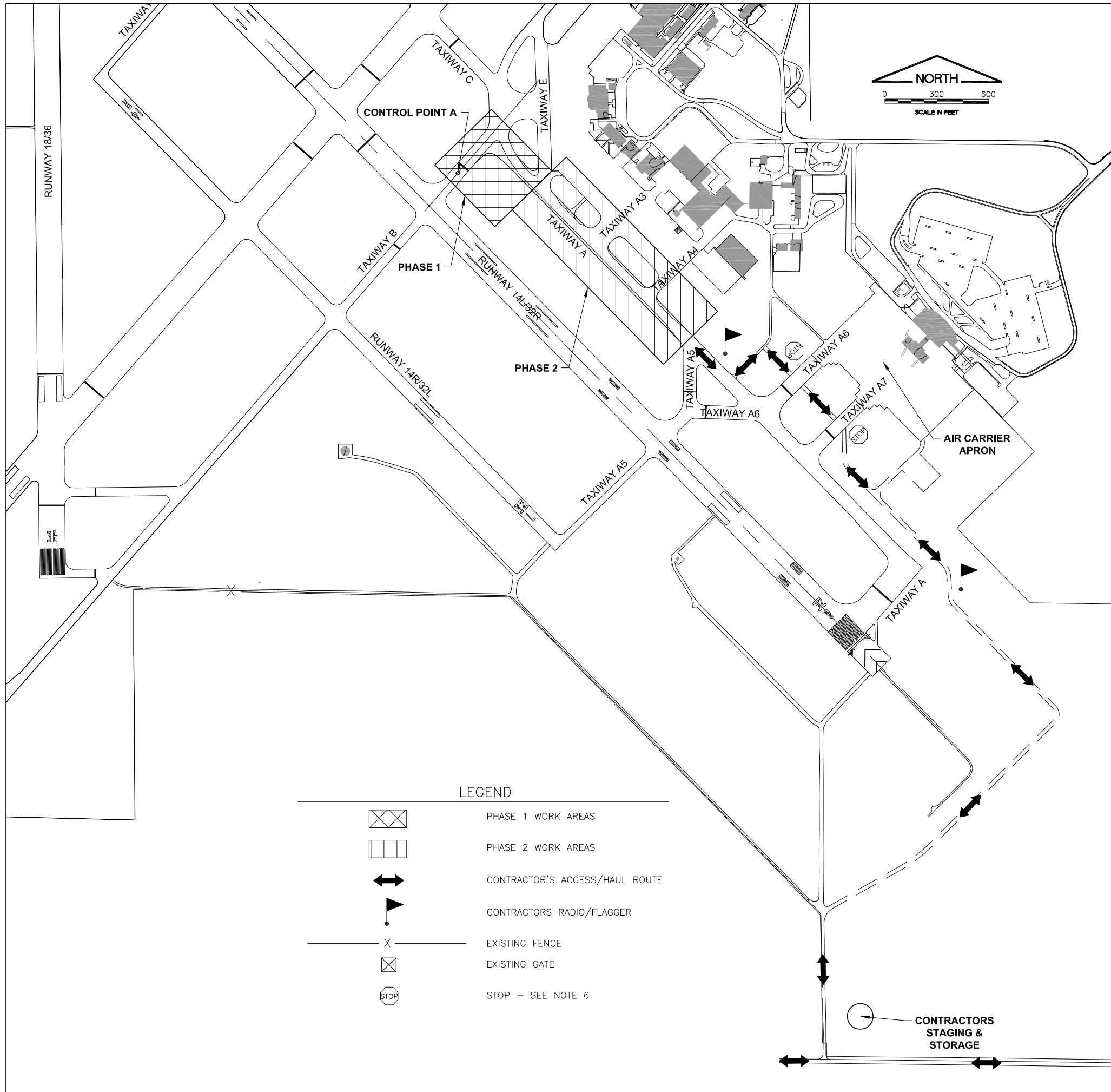
**WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS**

**IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
 AIRPORT SITE PLAN**

© Copyright CMT, Inc.
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

FINAL PLANS

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL. PROJ. NO. CMI-4099 AIP PROJ. NO. 3-17-0016-XX	
SHEET 4 OF 29 SHEETS	



- CONSTRUCTION ACTIVITY NOTES:**
1. PHASE 1 WILL CLOSE THE INTERSECTION OF TAXIWAY A AND TAXIWAY B. CONTRACTOR SHALL ACCESS THE SITE THROUGH THE STAGING AREA GATE AND USE THE EXISTING HAUL ROAD NETWORK.
 2. PHASE 2 WILL CLOSE TAXIWAY A FROM TAXIWAY A5 TO TAXIWAY B. CONTRACTOR SHALL ACCESS THE SITE THROUGH THE STAGING AREA GATE AND USE THE EXISTING HAUL ROAD NETWORK.
 3. SEE INDIVIDUAL PHASE SHEETS FOR MORE INFORMATION.
 4. CONTRACTOR SHALL NOT AT ANY TIME ACCESS THE AIR CARRIER APRON. UNAUTHORIZED ACCESS TO THE AIR CARRIER APRON MAY RESULT IN FINES OR PERMANENT EXPULSION FROM THE AIRPORT.
 5. CONTRACTOR'S WORK FORCE WILL BE REQUIRED TO CROSS ACTIVE TAXIWAYS TO INGRESS AND EGRESS OF THE WORK SITE. CONTRACTOR SHALL STATION COMPETENT PERSONNEL CAPABLE OF COMMUNICATING CONSTRUCTION MOVEMENT REQUESTS TO THE AIR TRAFFIC CONTROL TOWER AT LOCATIONS SHOWN IN THE PLANS. REFER TO THE SPECIFICATIONS FOR BADGING AND RADIO TRAINING REQUIREMENTS.
 6. CONTRACTOR WORK FORCES SHALL STOP A MINIMUM OF 80' FROM THE TAXIWAY CENTERLINE PRIOR TO CROSSING TAXIWAY A6 AND A7 AND MUST YIELD TO ALL TAXING AIRCRAFT.

K:\ChampaignAp\1105904\Draw\Sheets
 FILE: CONSTRUCTION ACTIVITY PLAN INDEX.dwg
 UPDATE BY: Chris Groth
 PLOT DATE: 6/14/2011 1:14 PM
 Coally
 CMI EP Int Geo TX D

UN050

REVISIONS		
NUMBER	BY	DATE

0 1 2
 THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

LEGEND

	PHASE 1 WORK AREAS
	PHASE 2 WORK AREAS
	CONTRACTOR'S ACCESS/HAUL ROUTE
	CONTRACTORS RADIO/FLAGGER
	EXISTING FENCE
	EXISTING GATE
	STOP - SEE NOTE 6

**WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS**

**IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
 CONSTRUCTION ACTIVITY PLAN INDEX**

FINAL PLANS

© Copyright CMT, Inc.

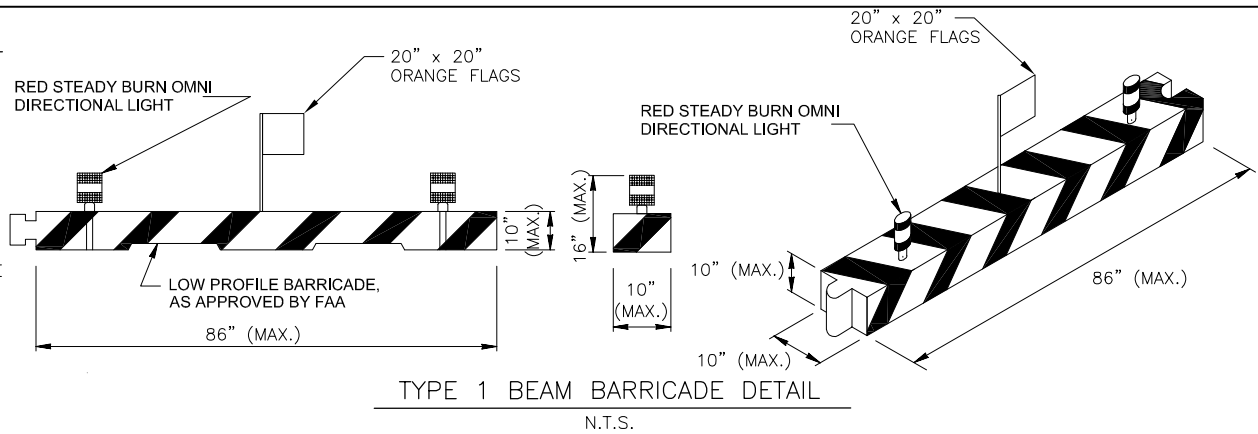
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL PROJ. NO.	CMI-4099
AIP PROJ. NO.	3-17-0016-XX

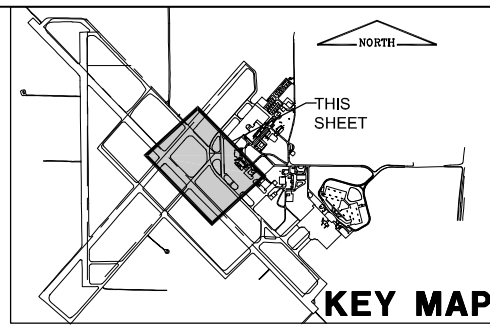
SHEET 5 OF 29 SHEETS

BEAM BARRICADE NOTES

1. BARRICADE SHALL BE WEIGHTED TO WITHSTAND DISPLACEMENT BY WIND, JET OR PROP BLAST.
2. BARRICADE MUST BE OF LOW MASS AND EASILY COLLAPSIBLE UPON CONTACT WITH AN AIRCRAFT.
3. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM. COSTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
4. PLACE AS SHOWN IN PLANS AND AS DIRECTED BY THE ENGINEER.



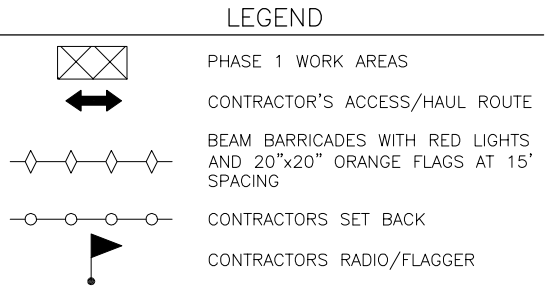
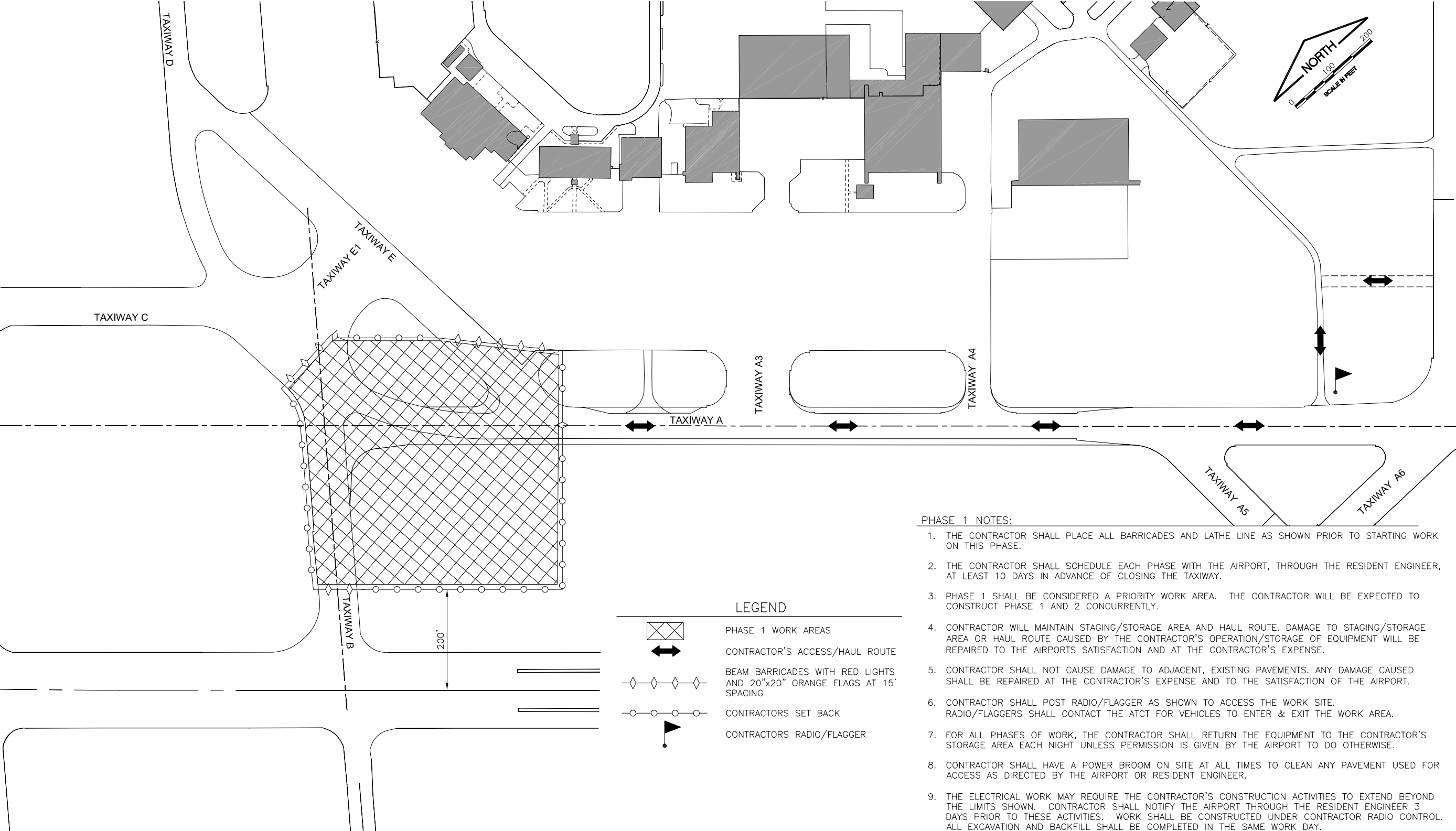
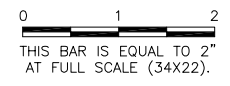
PHASE 1 FACILITIES STATUS	
RUNWAY 14L/32R	OPEN
RUNWAY 4/22	OPEN
RUNWAY 18/36	OPEN
TAXIWAY A	CLOSED A3 TO B
TAXIWAY B	CLOSED
TAXIWAY E	CLOSED A TO E1
TAXIWAY A3/4	OPENED



K:\Champaign\1105904\Draw\Sheets
 FILE: CONSTRUCTION ACTIVITY PLAN PHASE 1.dwg
 UPDATE BY: Chris Groth
 PLOT DATE: 6/14/2011 1:14 PM
 Coally
 KEYMAP
 CMI EP Int Geo TX D

UN050

REVISIONS		
NUMBER	BY	DATE



PHASE 1 NOTES:

1. THE CONTRACTOR SHALL PLACE ALL BARRICADES AND LATHE LINE AS SHOWN PRIOR TO STARTING WORK ON THIS PHASE.
2. THE CONTRACTOR SHALL SCHEDULE EACH PHASE WITH THE AIRPORT, THROUGH THE RESIDENT ENGINEER, AT LEAST 10 DAYS IN ADVANCE OF CLOSING THE TAXIWAY.
3. PHASE 1 SHALL BE CONSIDERED A PRIORITY WORK AREA. THE CONTRACTOR WILL BE EXPECTED TO CONSTRUCT PHASE 1 AND 2 CONCURRENTLY.
4. CONTRACTOR WILL MAINTAIN STAGING/STORAGE AREA AND HAUL ROUTE. DAMAGE TO STAGING/STORAGE AREA OR HAUL ROUTE CAUSED BY THE CONTRACTOR'S OPERATION/STORAGE OF EQUIPMENT WILL BE REPAIRED TO THE AIRPORTS SATISFACTION AND AT THE CONTRACTOR'S EXPENSE.
5. CONTRACTOR SHALL NOT CAUSE DAMAGE TO ADJACENT, EXISTING PAVEMENTS. ANY DAMAGE CAUSED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE AIRPORT.
6. CONTRACTOR SHALL POST RADIO/FLAGGER AS SHOWN TO ACCESS THE WORK SITE. RADIO/FLAGGERS SHALL CONTACT THE ATCT FOR VEHICLES TO ENTER & EXIT THE WORK AREA.
7. FOR ALL PHASES OF WORK, THE CONTRACTOR SHALL RETURN THE EQUIPMENT TO THE CONTRACTOR'S STORAGE AREA EACH NIGHT UNLESS PERMISSION IS GIVEN BY THE AIRPORT TO DO OTHERWISE.
8. CONTRACTOR SHALL HAVE A POWER BROOM ON SITE AT ALL TIMES TO CLEAN ANY PAVEMENT USED FOR ACCESS AS DIRECTED BY THE AIRPORT OR RESIDENT ENGINEER.
9. THE ELECTRICAL WORK MAY REQUIRE THE CONTRACTOR'S CONSTRUCTION ACTIVITIES TO EXTEND BEYOND THE LIMITS SHOWN. CONTRACTOR SHALL NOTIFY THE AIRPORT THROUGH THE RESIDENT ENGINEER 3 DAYS PRIOR TO THESE ACTIVITIES. WORK SHALL BE CONSTRUCTED UNDER CONTRACTOR RADIO CONTROL. ALL EXCAVATION AND BACKFILL SHALL BE COMPLETED IN THE SAME WORK DAY.

**WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS**

**IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
 CONSTRUCTION ACTIVITY PLAN
 PHASE 1**

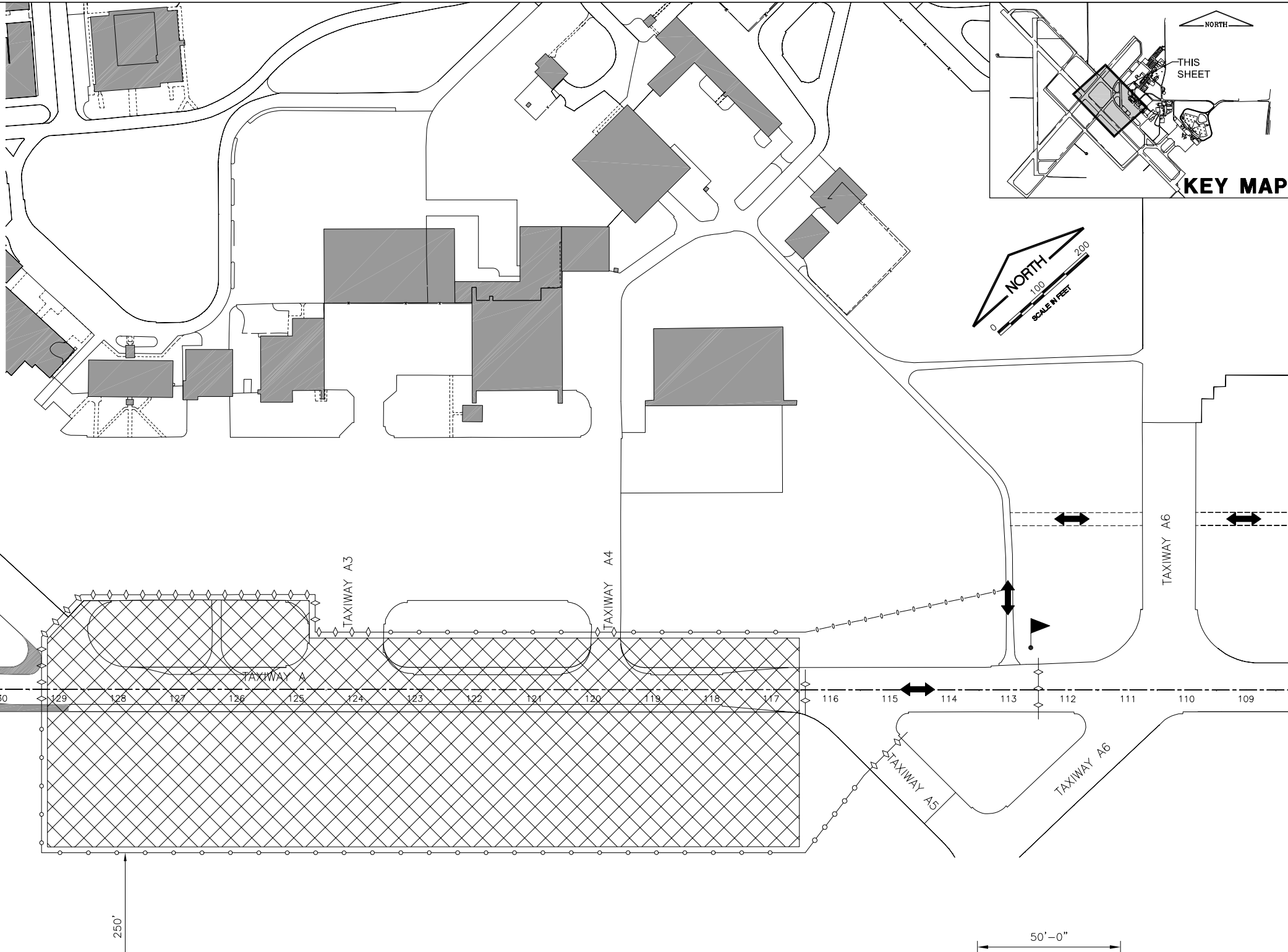
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

FINAL PLANS

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL PROJ. NO.	CMI-4099
AIP PROJ. NO.	3-17-0016-XX
SHEET	6 OF 29 SHEETS

PHASE 2 NOTES:

1. THE CONTRACTOR SHALL PLACE ALL BARRICADES AND LATHE LINE AS SHOWN PRIOR TO STARTING WORK ON THIS PHASE.
1. PHASE 1 AND PHASE 2 MAY BE CONSTRUCTED SIMULTANEOUS.
2. THE CONTRACTOR SHALL SCHEDULE THIS PHASE WITH THE AIRPORT, THROUGH THE RESIDENT ENGINEER, AT LEAST TEN (10) DAYS IN ADVANCE.
3. FOR ALL PHASES OF WORK, THE CONTRACTOR SHALL RETURN THE EQUIPMENT TO THE CONTRACTOR'S STORAGE AREA EACH NIGHT UNLESS PERMISSION IS GIVEN BY THE AIRPORT TO DO OTHERWISE.
4. CONTRACTOR WILL MAINTAIN STAGING/STORAGE AREA AND HAUL ROUTE. DAMAGE TO STAGING/STORAGE AREA OR HAUL ROUTE CAUSED BY THE CONTRACTOR'S OPERATION/STORAGE OF EQUIPMENT WILL BE REPAIRED TO THE AIRPORT'S SATISFACTION AND AT THE CONTRACTOR'S EXPENSE.
5. CONTRACTOR SHALL NOT CAUSE DAMAGE TO ADJACENT, EXISTING PAVEMENTS. ANY DAMAGE CAUSED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE AIRPORT.
6. CONTRACTOR SHALL HAVE POWER BROOM ON SITE AT ALL TIMES TO CLEAN ANY PAVEMENT USED FOR ACCESS AS DIRECTED BY THE AIRPORT OR RESIDENT ENGINEER.

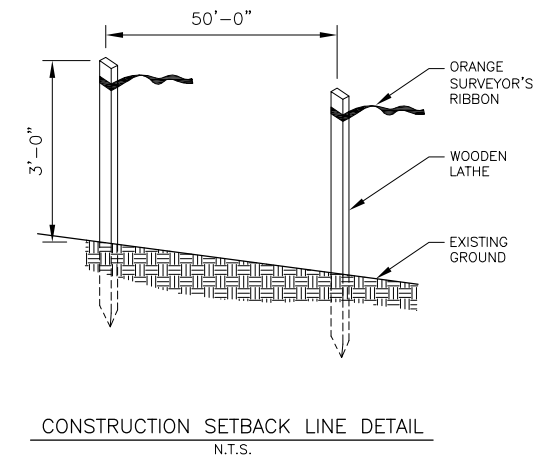
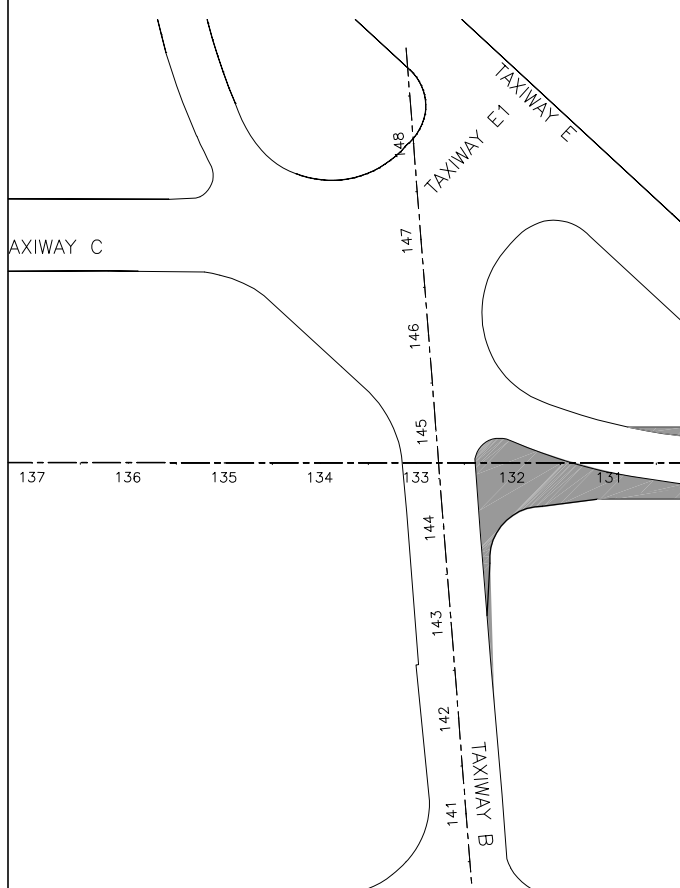


K:\Champaign\1105904\Draw\Sheets
 FILE: CONSTRUCTION ACTIVITY PLAN PHASE 2.dwg
 UPDATE BY: Chris Groth
 PLOT DATE: 6/14/2011 1:14 PM
 Coally
 KEYMAP
 CMI EP Int Geo TX D

UN050

REVISIONS		
NUMBER	BY	DATE

0 1 2
 THIS BAR IS EQUAL TO 2"
 AT FULL SCALE (34X22).



LEGEND

- PHASE 2 WORK AREAS
- COMPLETED WORK
- CONTRACTOR'S ACCESS/HAUL ROUTE
- BEAM BARRICADES WITH RED LIGHTS AND 20"x20" ORANGE FLAGS AT 15' SPACING
- CONTRACTORS SET BACK
- CONTRACTORS RADIO/FLAGGER

PHASE 2 FACILITIES STATUS	
RUNWAY 14L/32R	OPEN
RUNWAY 4/22	OPEN
RUNWAY 18/36	OPEN
TAXIWAY A*	CLOSED
TAXIWAY B	OPEN
TAXIWAY A3	CLOSED
TAXIWAY A4	CLOSED

* TAXIWAY A CLOSED NORTH OF A6 TO TAXIWAY E.

**WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS**

IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A

**CONSTRUCTION ACTIVITY PLAN
 PHASE 2**

© Copyright CMT, Inc.

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

FINAL PLANS

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL PROJ. NO.	CMI-4099
AIP PROJ. NO.	3-17-0016-XX
SHEET	7 OF 29 SHEETS

LEGEND	
---	EXISTING PAVEMENT
- - -	PROPOSED PAVEMENT
- - -	EXISTING RUNWAY CIRCUIT
- - -	EXISTING TAXIWAY CIRCUIT
SS	EXISTING STORM SEWER
S	EXISTING SANITARY SEWER
E	EXISTING UNDERGROUND ELECTRIC
W	EXISTING WATER LINE
G	EXISTING GAS LINE
VASI	EXISTING VASI CABLE
PAPI	EXISTING PAPI CABLE
REIL	EXISTING REIL CABLE
ASR	EXISTING ASR CABLE
LOC	EXISTING LOCALIZER CABLE
MALSR	EXISTING MALSR CABLE
WIND	EXISTING WIND CONE CABLE
-----	EXISTING ELECTRICAL DUCT
□	BASE MOUNTED RUNWAY LIGHT
□	BASE MOUNTED TAXIWAY LIGHT
○	STAKE MOUNTED TAXIWAY LIGHT
▭	TAXI GUIDANCE SIGN
⊙	EXISTING WINDSOCK
□	EXISTING INLET
○	EXISTING WATER VALVE
⊙	EXISTING MANHOLE
R	REMOVAL

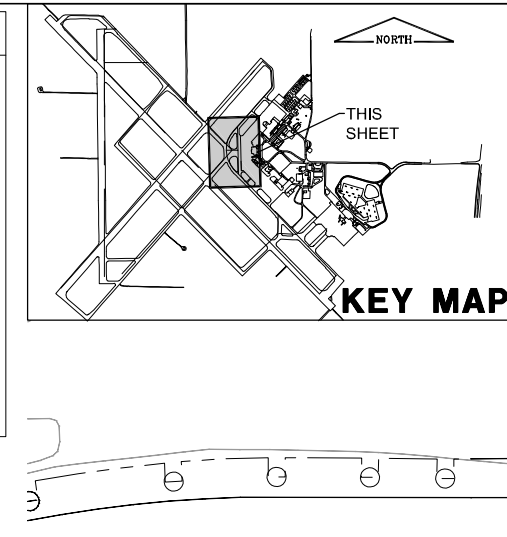
LEGENDS	
▨	EXISTING LOCALIZER CABLE
▨	EXISTING MALSR CABLE
▨	EXISTING WIND CONE CABLE
-----	EXISTING ELECTRICAL DUCT
□	BASE MOUNTED RUNWAY LIGHT
□	BASE MOUNTED TAXIWAY LIGHT
○	STAKE MOUNTED TAXIWAY LIGHT
▭	TAXI GUIDANCE SIGN
⊙	EXISTING WINDSOCK
□	EXISTING INLET
○	EXISTING WATER VALVE
⊙	EXISTING MANHOLE
R	REMOVAL

LEGENDS	
▨	EXISTING STRUCTURE
▨	5" BITUMINOUS PAVEMENT ON 21" BONDED PCC PAVEMENT ON SUBGRADE
▨	EXISTING 5" BITUMINOUS PAVEMENT 21" BONDED PCC PAVEMENT FULL DEPTH REMOVAL
---	BITUMINOUS PAVEMENT MILLING - 4" DEEP x 2' WIDE

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 UNDERGROUND 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.



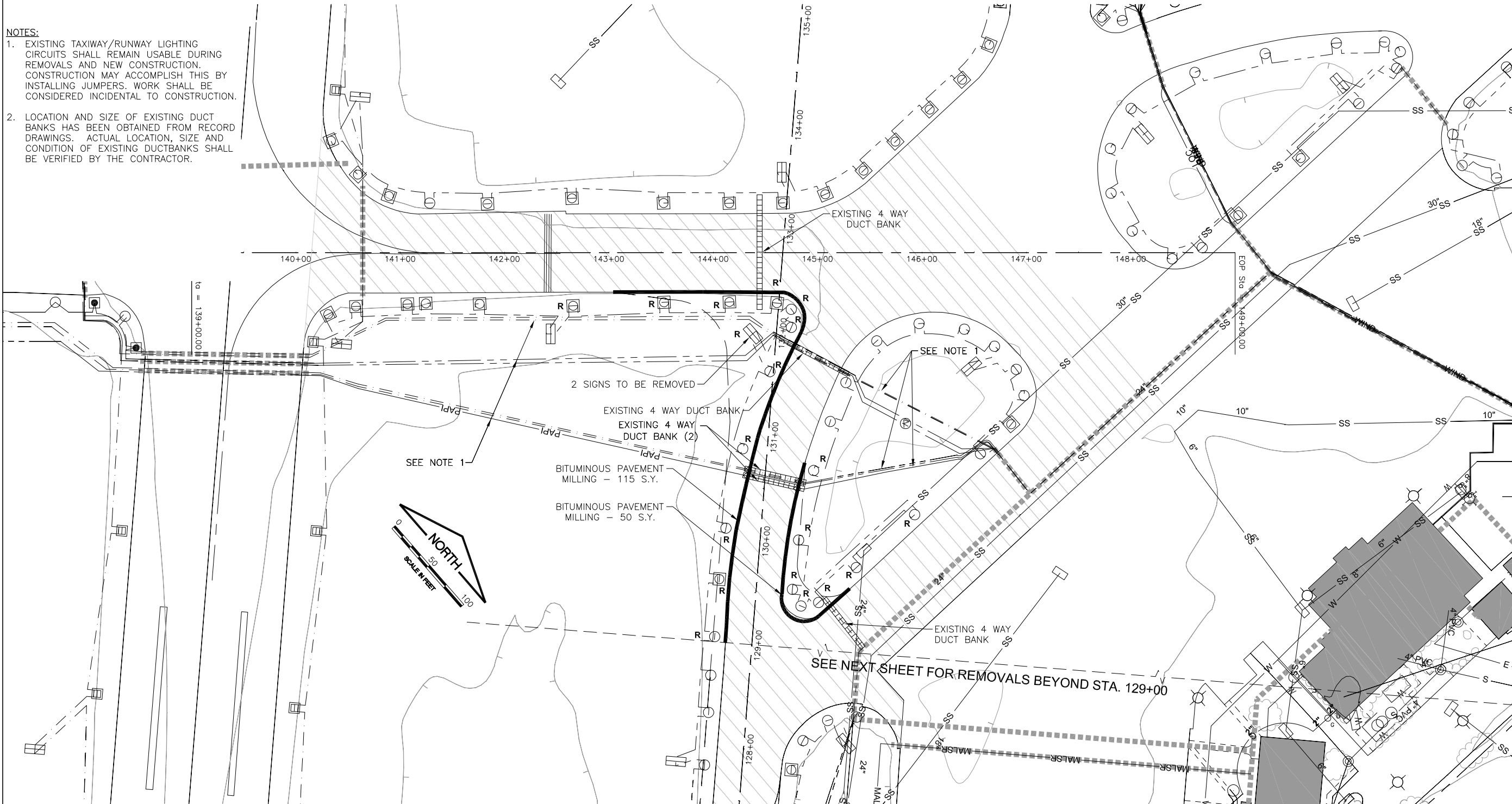
K:\Champaign\1105904\Draw\Sheets
 FILE: EXISTING CONDITIONS & REMOVALS 1.dwg
 UPDATE BY: Chris Groth
 PLOT DATE: 6/14/2011 1:14 PM
 Coally
 KEYMAP
 CMI UTILITIES
 CMI EP Int Geo TX D

UN050

REVISIONS		
NUMBER	BY	DATE

0 1 2
 THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

- NOTES:**
- EXISTING TAXIWAY/RUNWAY LIGHTING CIRCUITS SHALL REMAIN USABLE DURING REMOVALS AND NEW CONSTRUCTION. CONSTRUCTION MAY ACCOMPLISH THIS BY INSTALLING JUMPERS. WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
 - LOCATION AND SIZE OF EXISTING DUCT BANKS HAS BEEN OBTAINED FROM RECORD DRAWINGS. ACTUAL LOCATION, SIZE AND CONDITION OF EXISTING DUCTBANKS SHALL BE VERIFIED BY THE CONTRACTOR.



**WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS**

**IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
 EXISTING CONDITIONS & REMOVALS 1**

© Copyright CMT, Inc.

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

FINAL PLANS

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL PROJ. NO. CMI-4099 AIP PROJ. NO. 3-17-0016-XX	
SHEET 8 OF 29 SHEETS	

LEGENDS	
EXISTING STRUCTURE	
	5" BITUMINOUS PAVEMENT ON 21" BONDED PCC PAVEMENT ON SUBGRADE
REMOVALS	
	EXISTING 5" BITUMINOUS PAVEMENT 21" BONDED PCC PAVEMENT FULL DEPTH REMOVAL
	BITUMINOUS PAVEMENT MILLING - 4" DEEP X 2" WIDE

CONTRACTOR'S RESPONSIBILITY FOR UTILITY SERVICE

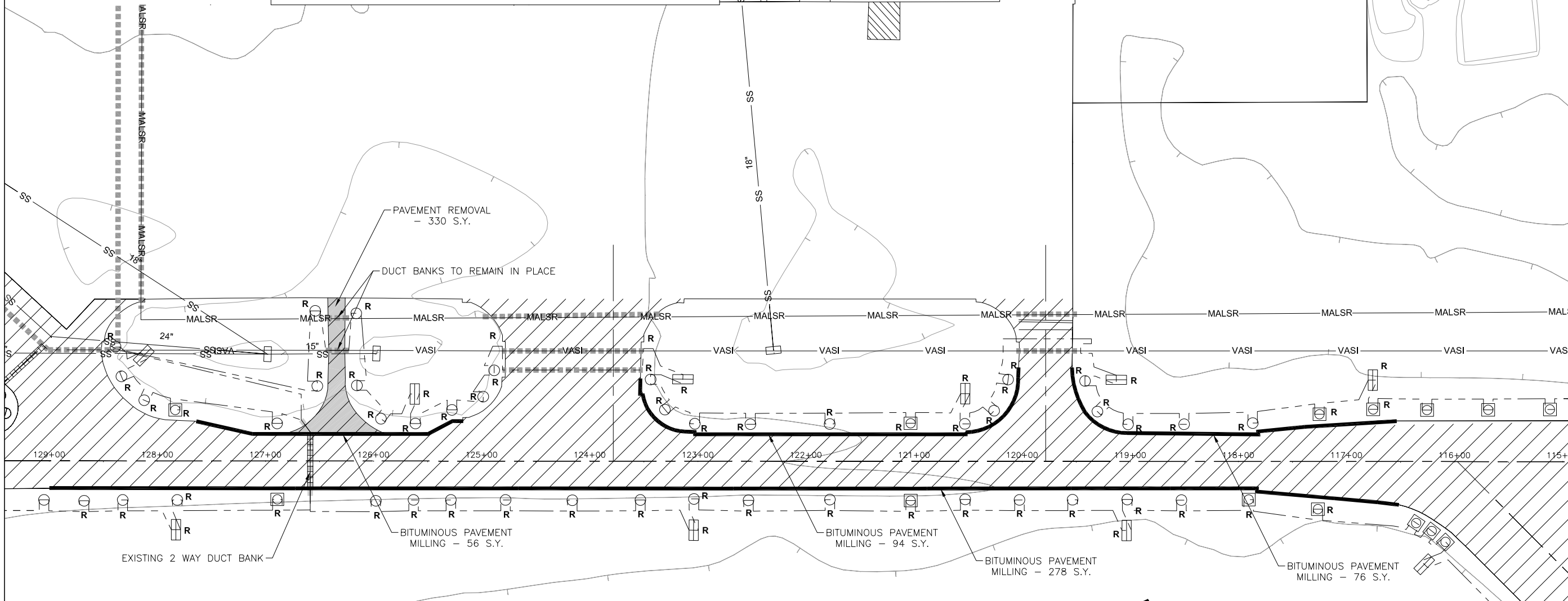
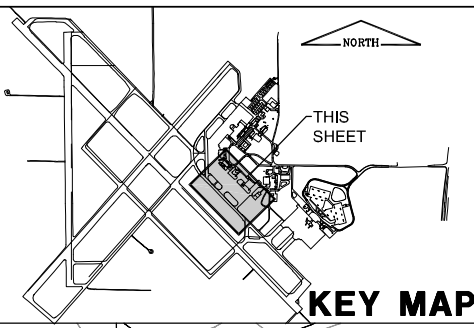
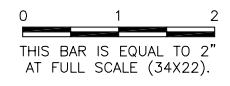
THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATEVER IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, 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 UNDERGROUND 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.

K:\Champaign\1105904\Draw\Sheets
 FILE: EXISTING CONDITIONS & REMOVALS
 UPDATE BY: Chris Groh
 PLOT DATE: 6/14/2011 1:14 PM
 Coally
 KEYMAP
 CMI UTILITIES
 CMI EP Int Geo TX D

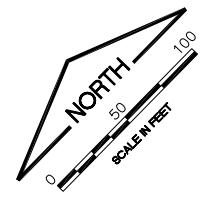
UN050

REVISIONS		
NUMBER	BY	DATE



LEGEND			
	EXISTING PAVEMENT		EXISTING LOCALIZER CABLE
	PROPOSED PAVEMENT		EXISTING MALSR CABLE
	EXISTING RUNWAY CIRCUIT		EXISTING WIND CONE CABLE
	EXISTING TAXIWAY CIRCUIT		EXISTING ELECTRICAL DUCT
	EXISTING STORM SEWER		BASE MOUNTED RUNWAY LIGHT
	EXISTING SANITARY SEWER		BASE MOUNTED TAXIWAY LIGHT
	EXISTING UNDERGROUND ELECTRIC		STAKE MOUNTED TAXIWAY LIGHT
	EXISTING WATER LINE		TAXI GUIDANCE SIGN
	EXISTING GAS LINE		EXISTING TRANSFORMER
	EXISTING VASI CABLE		EXISTING INLET
	EXISTING PAPI CABLE		EXISTING WATER VALVE
	EXISTING REIL CABLE		EXISTING MANHOLE
	EXISTING ASR CABLE		REMOVAL

- NOTES:**
- EXISTING TAXIWAY/RUNWAY LIGHTING CIRCUITS SHALL REMAIN USABLE DURING REMOVALS AND NEW CONSTRUCTION. CONSTRUCTION MAY ACCOMPLISH THIS BY INSTALLING JUMPERS. WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
 - LOCATION AND SIZE OF EXISTING DUCT BANKS HAS BEEN OBTAINED FROM RECORD DRAWINGS. ACTUAL LOCATION, SIZE AND CONDITION OF EXISTING DUCTBANKS SHALL BE VERIFIED BY THE CONTRACTOR.



WILLARD AIRPORT
UNIVERSITY OF ILLINOIS
IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
EXISTING CONDITIONS & REMOVALS 2

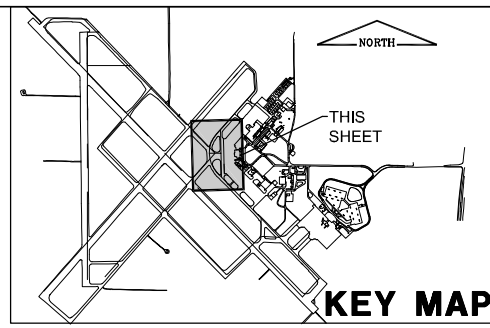
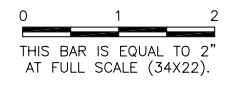
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

FINAL PLANS

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL PROJ. NO.	CMI-4099
AIP PROJ. NO.	3-17-0016-XX
SHEET	9 OF 29 SHEETS

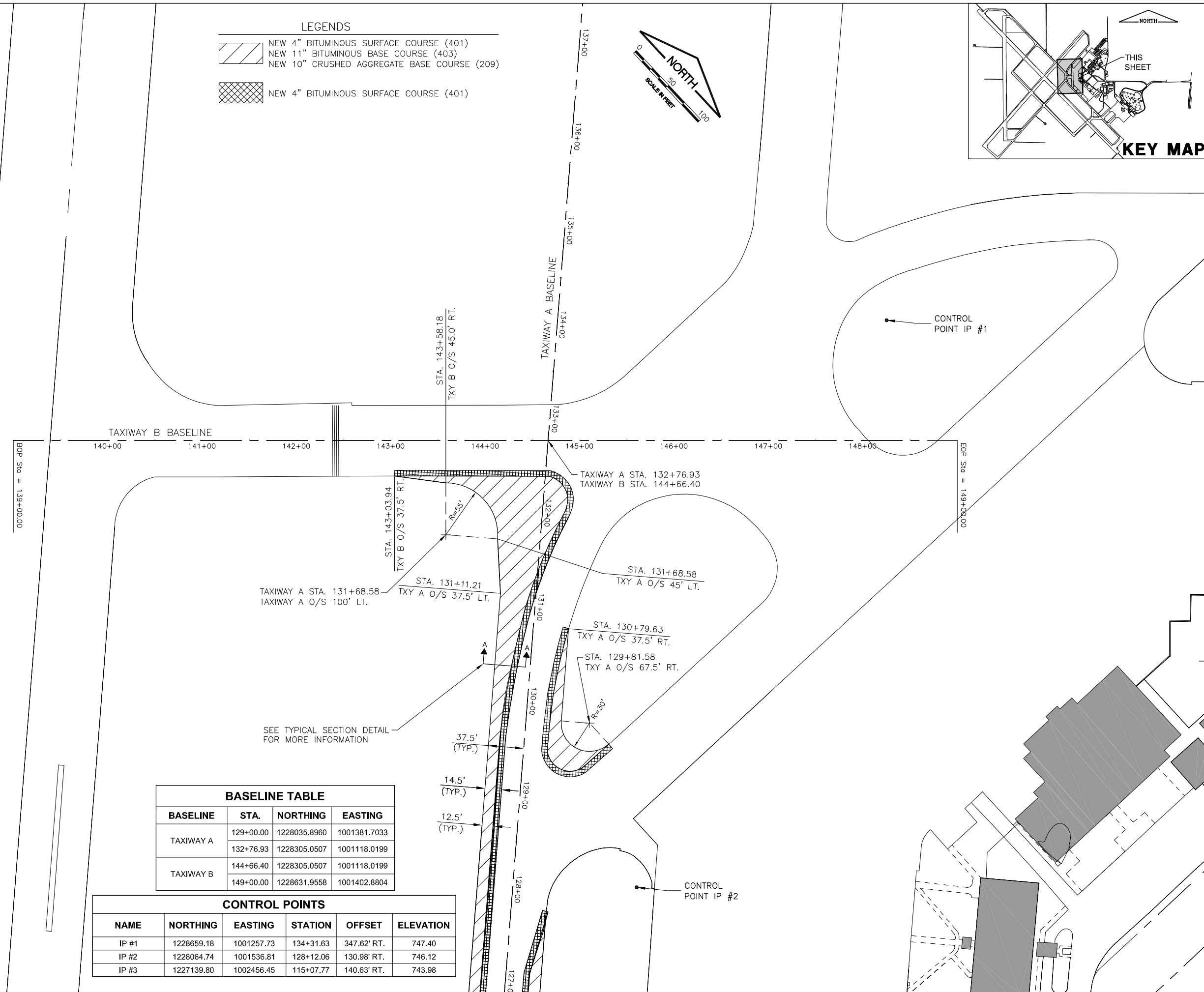
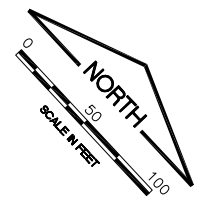
UN050

REVISIONS		
NUMBER	BY	DATE



LEGENDS

	NEW 4" BITUMINOUS SURFACE COURSE (401)
	NEW 11" BITUMINOUS BASE COURSE (403)
	NEW 10" CRUSHED AGGREGATE BASE COURSE (209)
	NEW 4" BITUMINOUS SURFACE COURSE (401)



BASELINE TABLE

BASELINE	STA.	NORTHING	EASTING
TAXIWAY A	129+00.00	1228035.8960	1001381.7033
	132+76.93	1228305.0507	1001118.0199
TAXIWAY B	144+66.40	1228305.0507	1001118.0199
	149+00.00	1228631.9558	1001402.8804

CONTROL POINTS

NAME	NORTHING	EASTING	STATION	OFFSET	ELEVATION
IP #1	1228659.18	1001257.73	134+31.63	347.62' RT.	747.40
IP #2	1228064.74	1001536.81	128+12.06	130.98' RT.	746.12
IP #3	1227139.80	1002456.45	115+07.77	140.63' RT.	743.98

**WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS**

**IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
 PROPOSED IMPROVEMENTS 1**

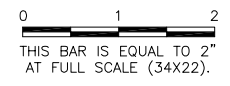
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

FINAL PLANS

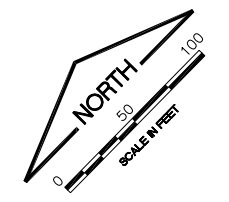
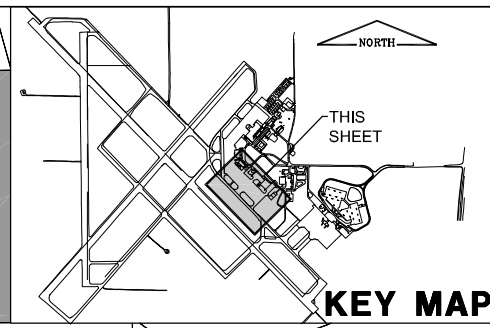
DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL PROJ. NO.	CMI-4099
AIP PROJ. NO.	3-17-0016-XX
SHEET	10 OF 29 SHEETS

UN050

REVISIONS		
NUMBER	BY	DATE

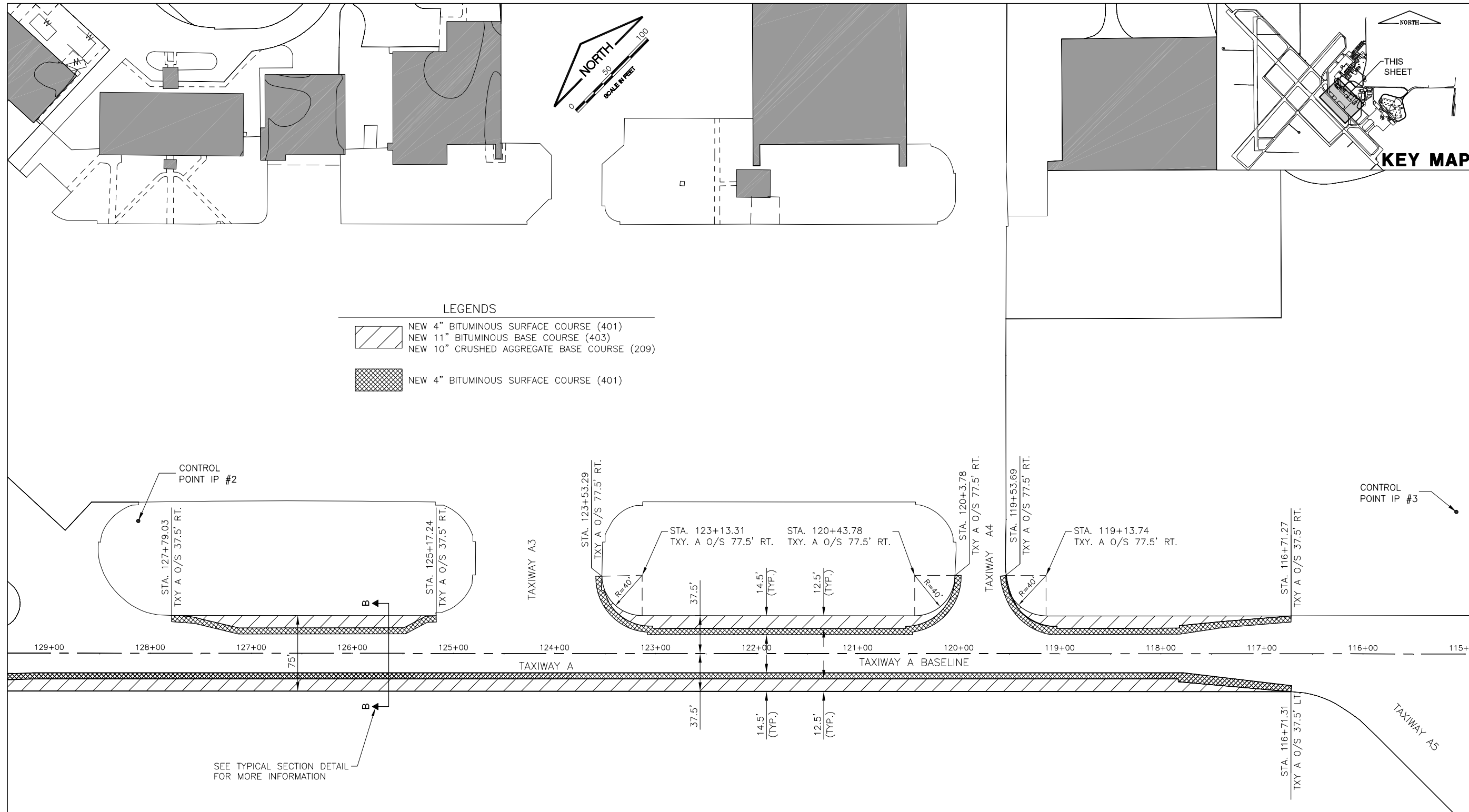


KEY MAP



LEGENDS

- NEW 4" BITUMINOUS SURFACE COURSE (401)
- NEW 11" BITUMINOUS BASE COURSE (403)
- NEW 10" CRUSHED AGGREGATE BASE COURSE (209)
- NEW 4" BITUMINOUS SURFACE COURSE (401)



SEE TYPICAL SECTION DETAIL FOR MORE INFORMATION

**WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS
 IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
 PROPOSED IMPROVEMENTS 2**

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

FINAL PLANS

CONTROL POINTS					
NAME	NORTHING	EASTING	STATION	OFFSET	ELEVATION
IP #1	1228659.18	1001257.73	134+31.63	347.62' RT.	747.40
IP #2	1228064.74	1001536.81	128+12.06	130.98' RT.	746.12
IP #3	1227139.80	1002456.45	115+07.77	140.63' RT.	743.98

BASELINE TABLE			
BASELINE	STA.	NORTHING	EASTING
TAXIWAY A	129+00.00	1227178.7002	1001381.7033
	117+00.00	1228035.8960	1002221.4743

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL PROJ. NO. CMI-4099 AIP PROJ. NO. 3-17-0016-XX	
SHEET	11 OF 29 SHEETS

UN050

REVISIONS		
NUMBER	BY	DATE

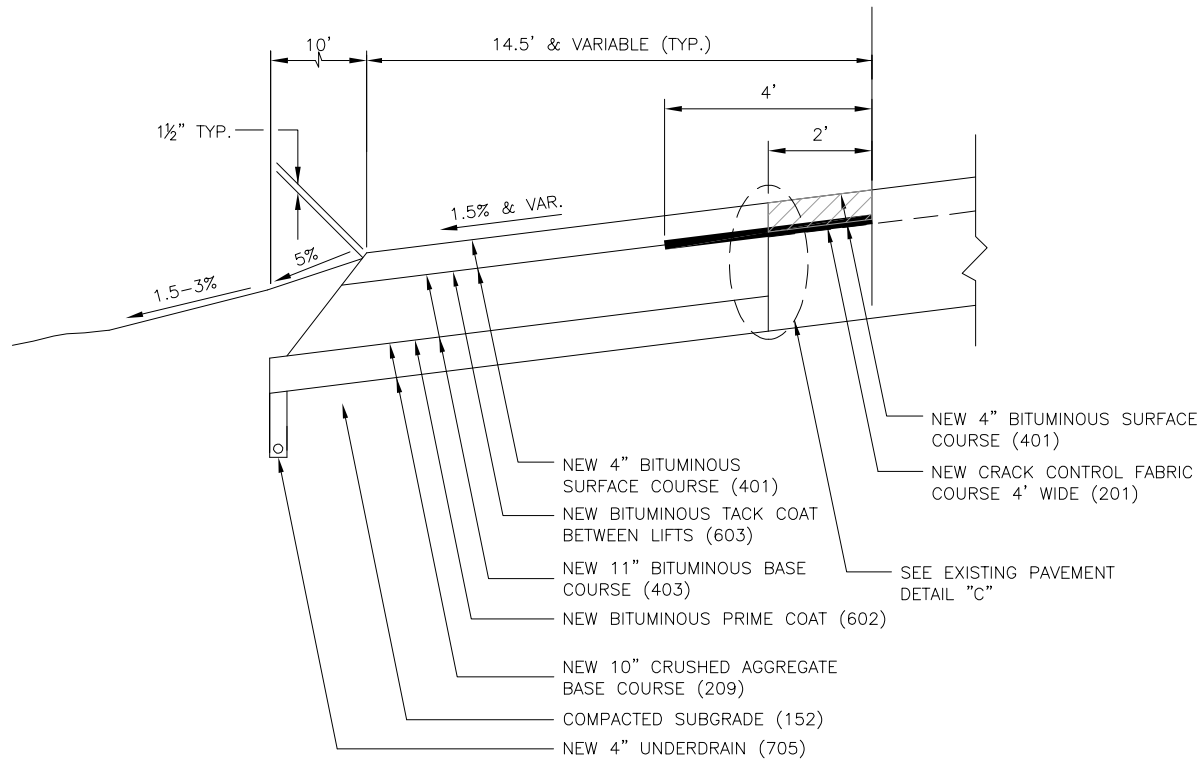
0 1 2
 THIS BAR IS EQUAL TO 2"
 AT FULL SCALE (34X22).

**WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS**
IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
TYPICAL SECTIONS 1

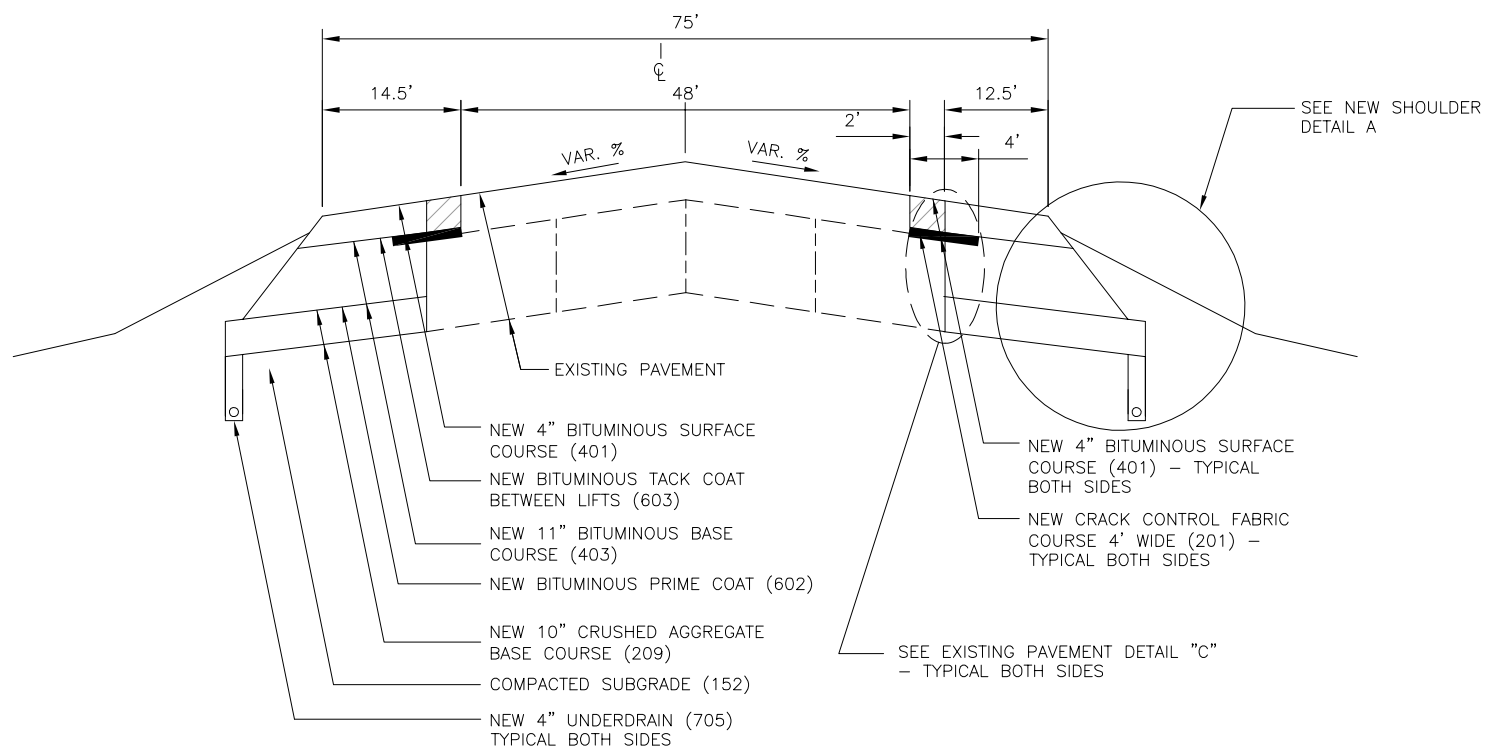
© Copyright CMT, Inc.
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

FINAL PLANS

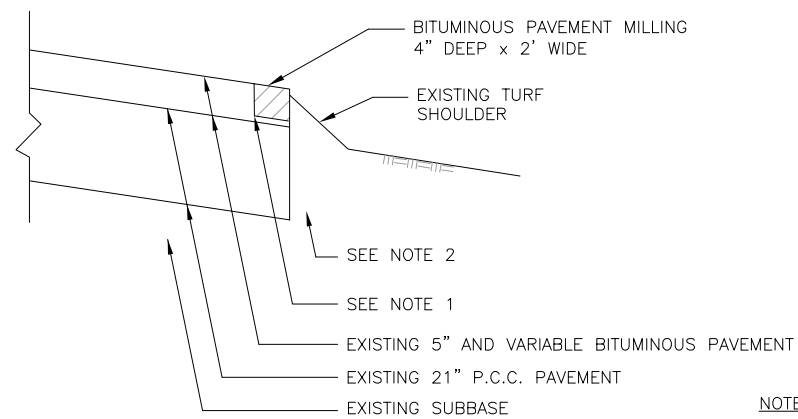
DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL. PROJ. NO. CMI-4099 AIP PROJ. NO. 3-17-0016-XX	
SHEET 12 OF 29 SHEETS	



A TAXIWAY A/B INTERSECTION WIDENING A
 N.T.S.



B PARALLEL TAXIWAY A WIDENING B
 N.T.S.



**EXISTING PAVEMENT DETAIL "C" -
 EXCAVATION AND MILLING**
 N.T.S.

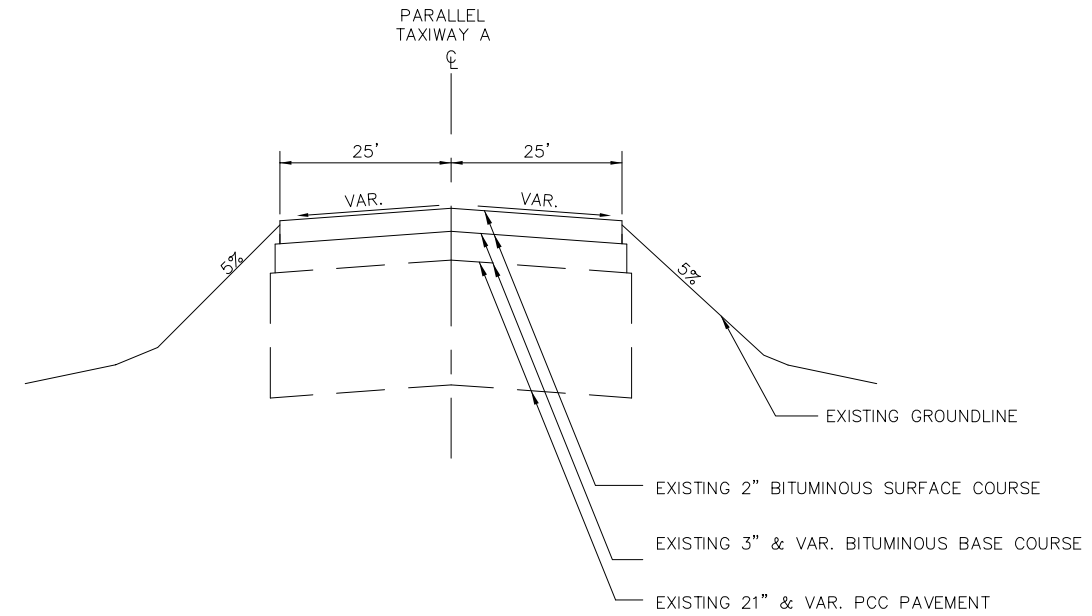
NOTES:

1. SAW CUT MAY BE REQUIRED IF MILL DOES NOT PROVIDE CLEAN VERTICAL FACE TO ABUTMENT - SAWING SHALL BE INCIDENTAL TO MILLING IF REQUIRED BY RESIDENT ENGINEER.
2. CONTRACTOR SHALL TAKE PRECAUTIONS TO PRESERVE THE EXISTING P.C.C. EDGE FROM DAMAGE DURING EXCAVATION. CONTRACTOR SHALL NOT OVER EXCAVATE ADJACENT TO THE EXISTING PAVEMENT AND CAUSE UNDERMINING AT THE EXISTING PAVEMENT.

UN050

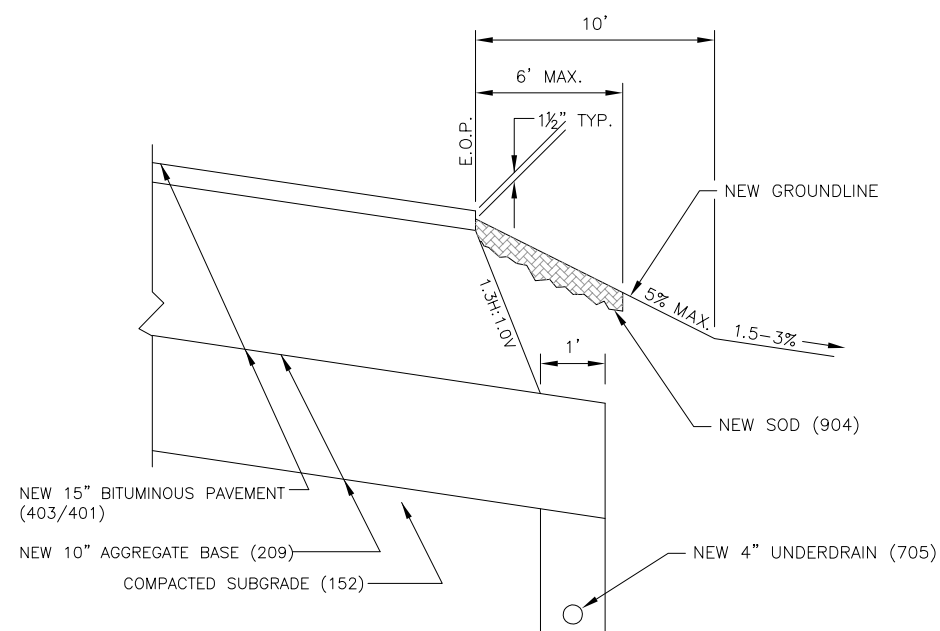
REVISIONS		
NUMBER	BY	DATE

0 1 2
 THIS BAR IS EQUAL TO 2"
 AT FULL SCALE (34X22).



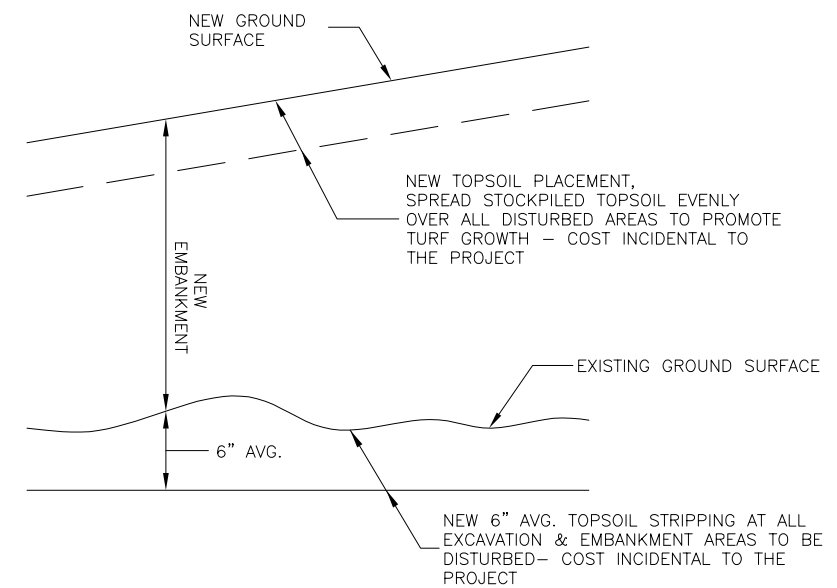
EXISTING PARALLEL TAXIWAY A

N.T.S.



NEW SHOULDER DETAIL "A"

N.T.S.



TOPSOIL STRIPPING DETAIL

N.T.S.

WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS

IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
 TYPICAL SECTIONS 2

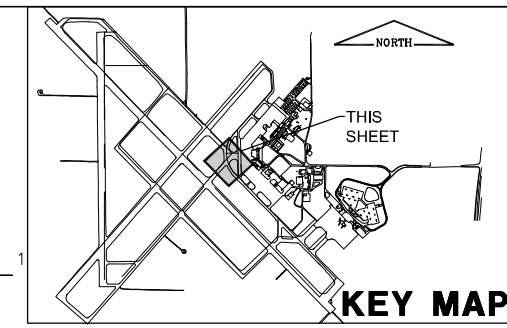
© Copyright CMT, Inc.



CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

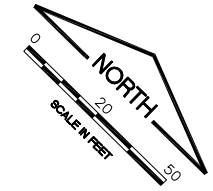
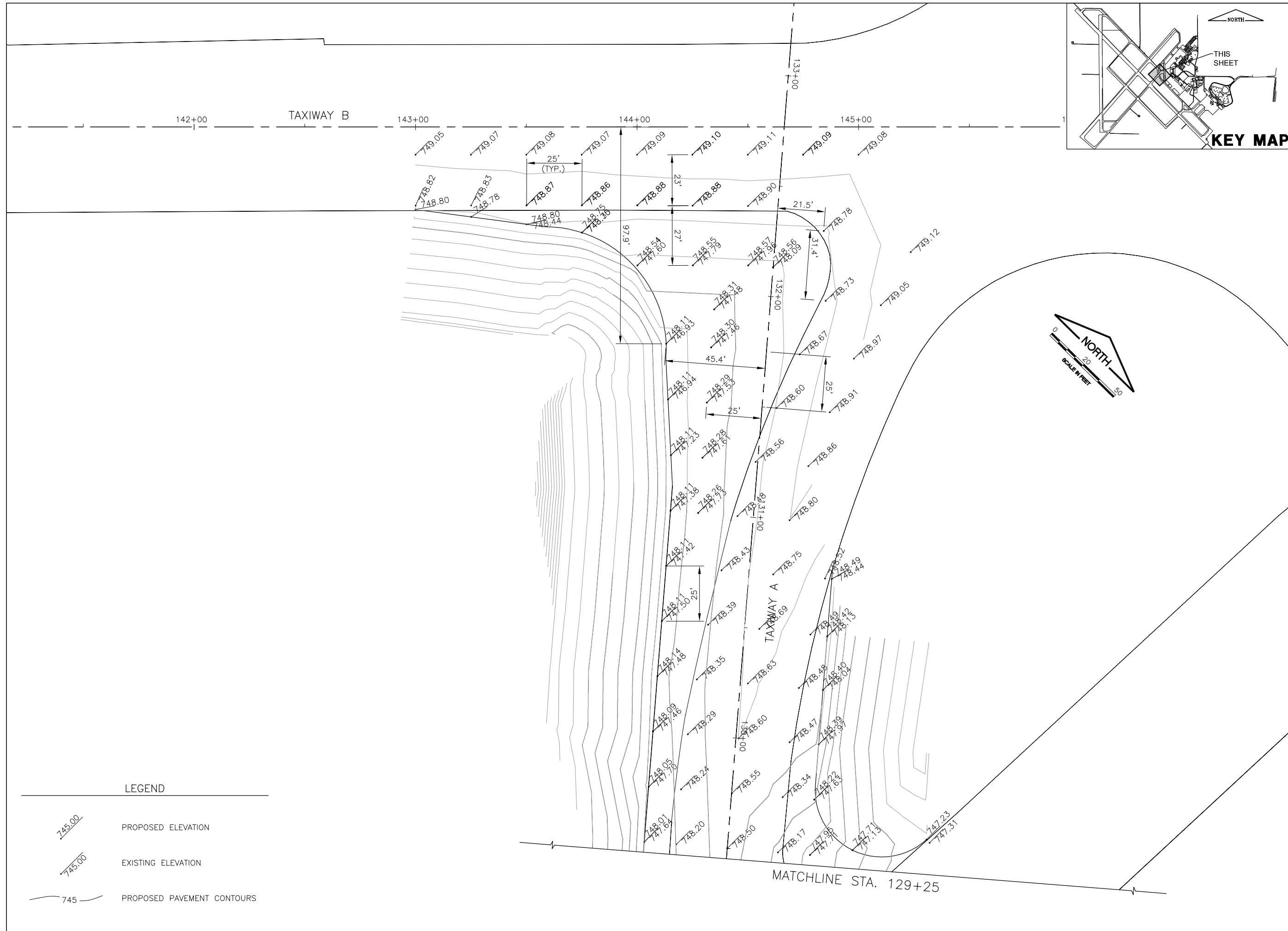
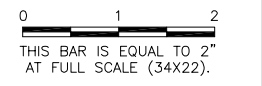
FINAL PLANS

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL PROJ. NO.	CMI-4099
AIP PROJ. NO.	3-17-0016-XX
SHEET	13 OF 29 SHEETS



UN050

REVISIONS		
NUMBER	BY	DATE



**WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS**

**IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
 STAKING PLAN 1**

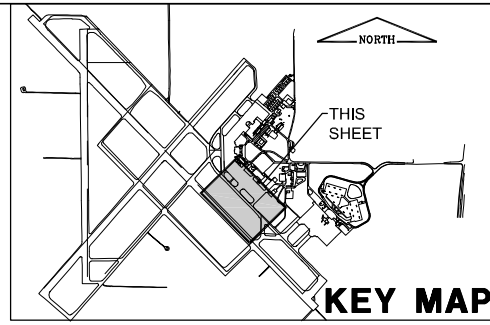
© Copyright CMT, Inc.
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

FINAL PLANS

LEGEND

- PROPOSED ELEVATION
- EXISTING ELEVATION
- PROPOSED PAVEMENT CONTOURS

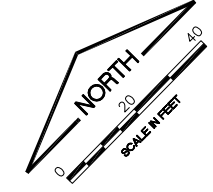
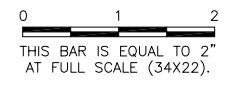
DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL PROJ. NO. CMI-4099 AIP PROJ. NO. 3-17-0016-XX	
SHEET 14 OF 29 SHEETS	



K:\Champaign\1105904\Draw\Sheets
 FILE: STAKING PLAN 2.dwg
 UPDATE BY: Chris Groth
 PLOT DATE: 6/14/2011 1:15 PM
 Coally
 KEYMAP
 CMI UTILITIES
 CMI EP Int Geo TX D
 CMI_Stake

UN050

REVISIONS		
NUMBER	BY	DATE



**WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS**

IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A

STAKING PLAN 2

LEGEND

	PROPOSED ELEVATION
	EXISTING ELEVATION
	PROPOSED PAVEMENT CONTOURS

© Copyright CMT, Inc.

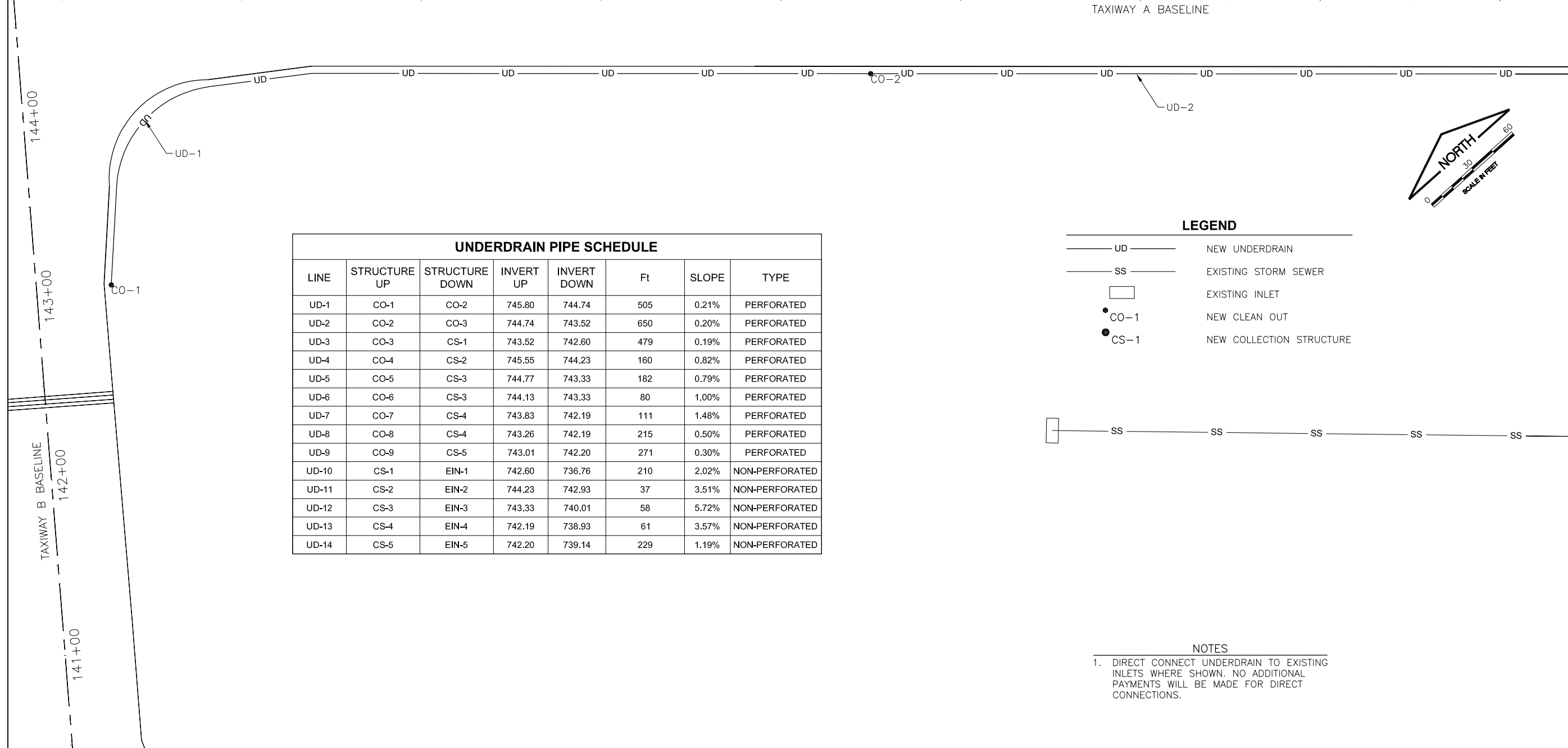
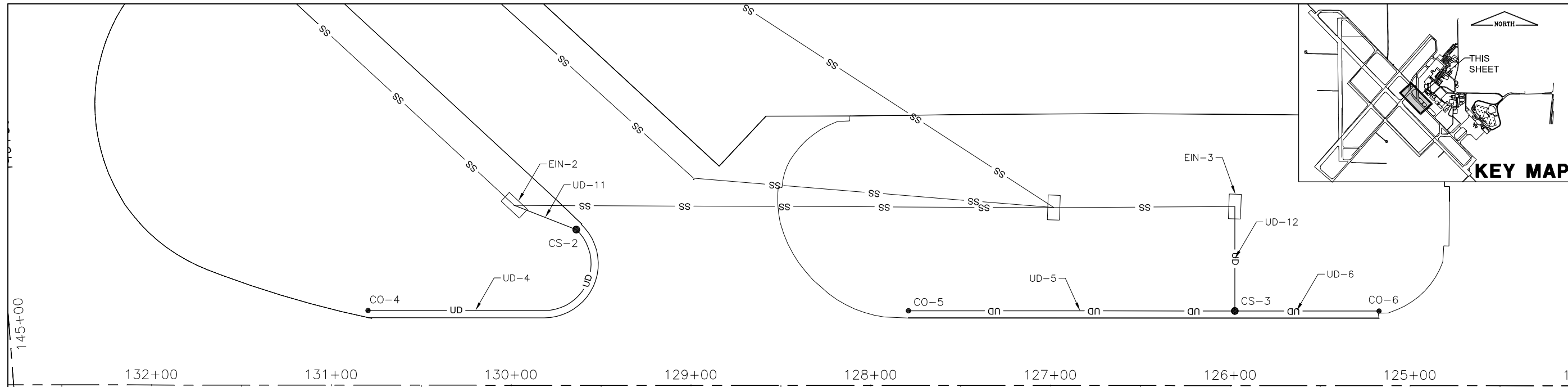
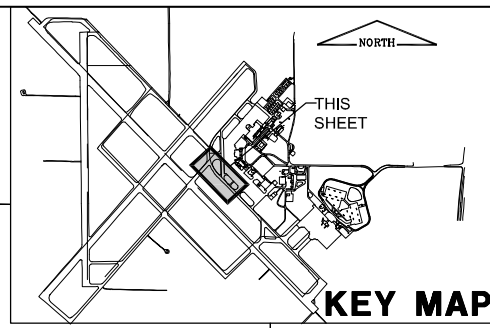
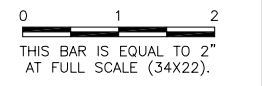
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

FINAL PLANS

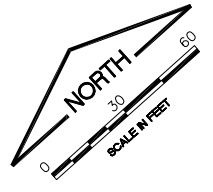
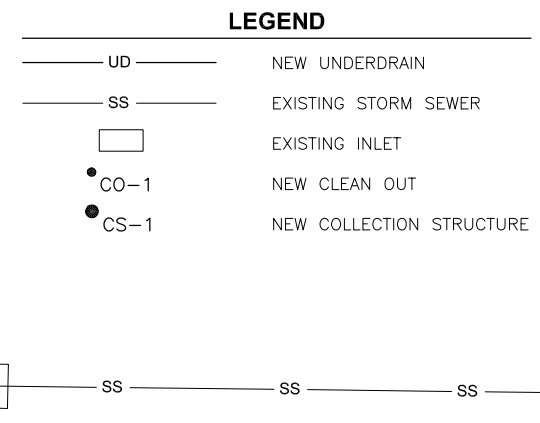
DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL. PROJ. NO. CMI-4099 AIP PROJ. NO. 3-17-0016-XX	
SHEET 15 OF 29 SHEETS	

UN050

REVISIONS		
NUMBER	BY	DATE

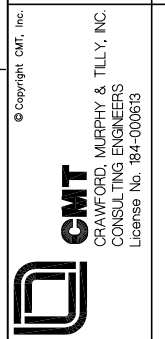


UNDERDRAIN PIPE SCHEDULE							
LINE	STRUCTURE UP	STRUCTURE DOWN	INVERT UP	INVERT DOWN	Ft	SLOPE	TYPE
UD-1	CO-1	CO-2	745.80	744.74	505	0.21%	PERFORATED
UD-2	CO-2	CO-3	744.74	743.52	650	0.20%	PERFORATED
UD-3	CO-3	CS-1	743.52	742.60	479	0.19%	PERFORATED
UD-4	CO-4	CS-2	745.55	744.23	160	0.82%	PERFORATED
UD-5	CO-5	CS-3	744.77	743.33	182	0.79%	PERFORATED
UD-6	CO-6	CS-3	744.13	743.33	80	1.00%	PERFORATED
UD-7	CO-7	CS-4	743.83	742.19	111	1.48%	PERFORATED
UD-8	CO-8	CS-4	743.26	742.19	215	0.50%	PERFORATED
UD-9	CO-9	CS-5	743.01	742.20	271	0.30%	PERFORATED
UD-10	CS-1	EIN-1	742.60	736.76	210	2.02%	NON-PERFORATED
UD-11	CS-2	EIN-2	744.23	742.93	37	3.51%	NON-PERFORATED
UD-12	CS-3	EIN-3	743.33	740.01	58	5.72%	NON-PERFORATED
UD-13	CS-4	EIN-4	742.19	738.93	61	3.57%	NON-PERFORATED
UD-14	CS-5	EIN-5	742.20	739.14	229	1.19%	NON-PERFORATED



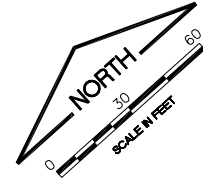
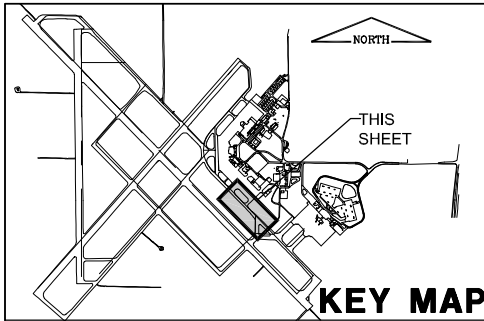
- NOTES**
- DIRECT CONNECT UNDERDRAIN TO EXISTING INLETS WHERE SHOWN. NO ADDITIONAL PAYMENTS WILL BE MADE FOR DIRECT CONNECTIONS.

WILLARD AIRPORT
UNIVERSITY OF ILLINOIS
IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
UNDERDRAIN PLAN 1



FINAL PLANS

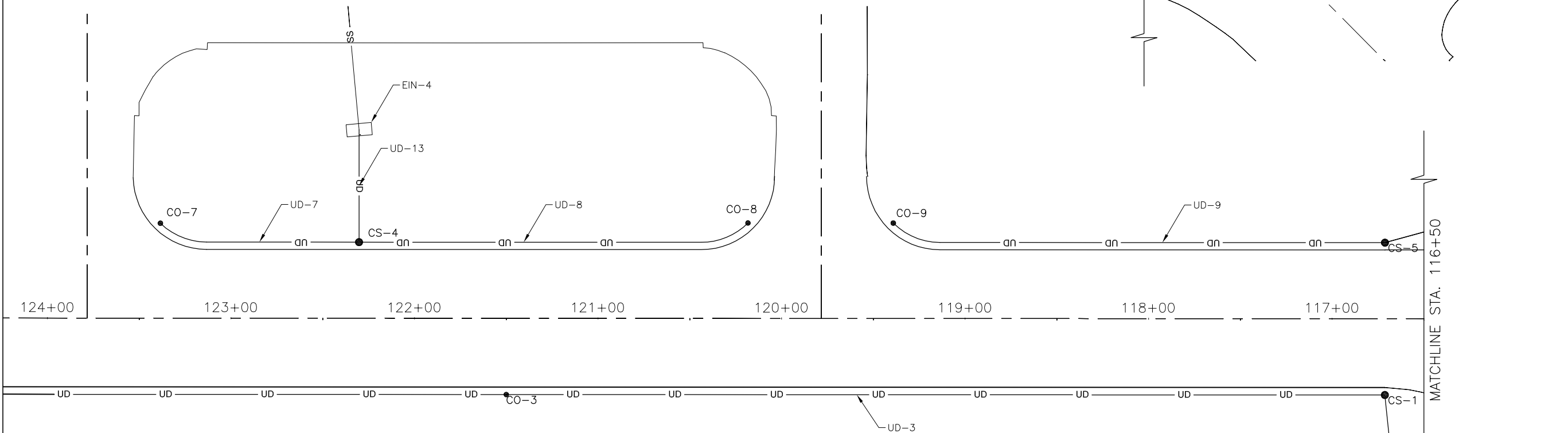
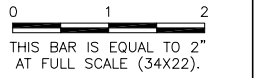
DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL PROJ. NO.	CMI-4099
AIP PROJ. NO.	3-17-0016-XX
SHEET	16 OF 29 SHEETS



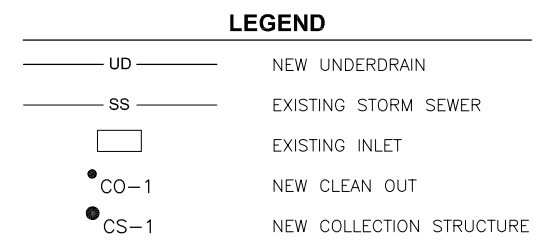
K:\ChampaignAp\1105904\Draw\Sheets
 FILE: UNDERDRAIN PLAN 2.dwg
 UPDATE BY: Chris Groth
 PLOT DATE: 6/14/2011 1:16 PM
 Coally
 KEYMAP
 CMI EP Int. Geo TX D
 CMI UTILITIES

UN050

REVISIONS		
NUMBER	BY	DATE



UNDERDRAIN STRUCTURE TABLE						
STRUCTURE	ALIGNMENT	STATION	OFFSET	RIM	INV	TYPE
CO-1	TAXIWAY B	143+03	41.7' RT	748.48	745.80	1
CO-2	TAXIWAY A	128+00	41.5' LT	747.42	744.74	3
CO-3	TAXIWAY A	121+50	41.5' LT	746.20	743.52	3
CO-4	TAXIWAY A	130+80	41.5' RT	748.18	745.55	1
CO-5	TAXIWAY A	127+79	41.5' RT	747.45	744.77	1
CO-6	TAXIWAY A	125+17	41.5' RT	746.79	744.13	1
CO-7	TAXIWAY A	123+38	51.7' RT	748.86	743.83	1
CO-8	TAXIWAY A	120+18	52.0' RT	746.28	743.26	1
CO-9	TAXIWAY A	119+38	52.0' RT	746.11	743.01	1
CS-1	TAXIWAY A	116+71	41.5' LT	745.28	742.60	N/A
CS-2	TAXIWAY A	129+64	86.5' RT	746.91	744.23	N/A
CS-3	TAXIWAY A	125+97.5	41.5' RT	747.02	743.33	N/A
CS-4	TAXIWAY A	122+30	41.5' RT	746.40	742.19	N/A
CS-5	TAXIWAY A	116+71	41.5' RT	745.35	742.20	N/A
EIN-1	TAXIWAY A	116+50	250.6' LT	741.35	736.76	EXIST. INLET
EIN-2	TAXIWAY A	129+98	100.0' RT	745.93	736.80	EXIST. INLET
EIN-3	TAXIWAY A	125+97.5	99.5' RT	742.01	738.82	EXIST. INLET
EIN-4	TAXIWAY A	122+30	102.8' RT	743.01	738.93	EXIST. INLET
EIN-5	TAXIWAY A	114+50	102.4' RT	742.48	739.14	EXIST. INLET

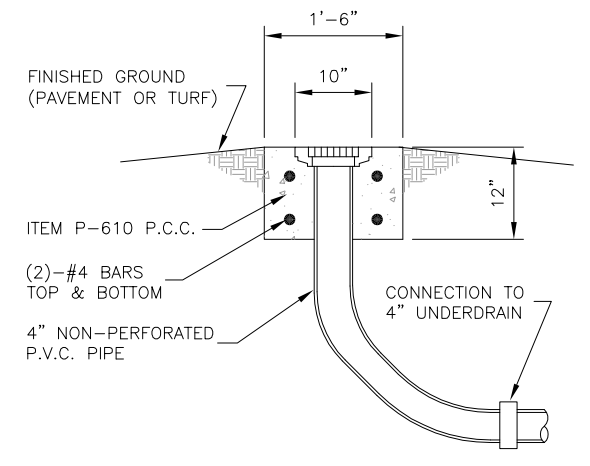


WILLARD AIRPORT
UNIVERSITY OF ILLINOIS
IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
UNDERDRAIN PLAN 2

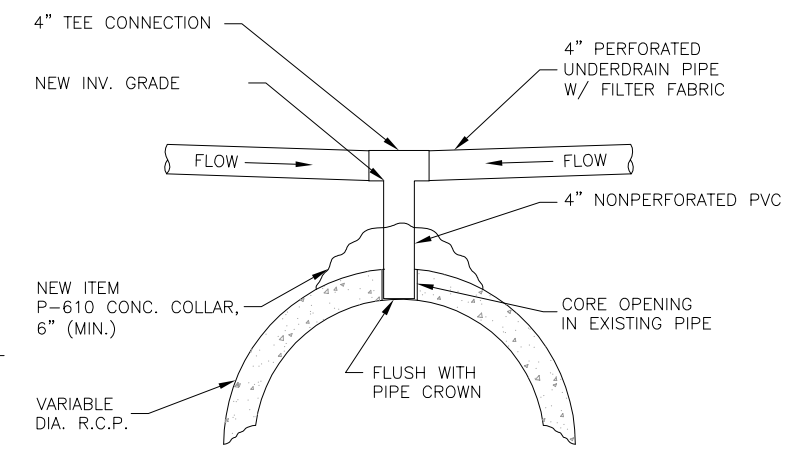
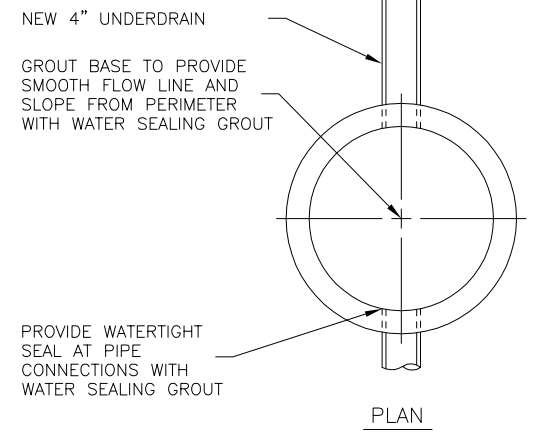
© Copyright CMT, Inc.
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

FINAL PLANS

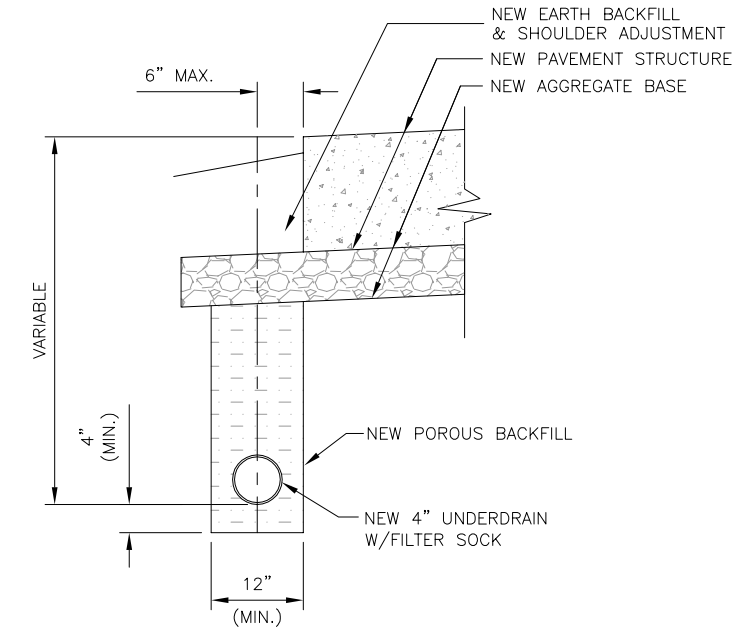
DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL. PROJ. NO. CMI-4099 AIP PROJ. NO. 3-17-0016-XX	
SHEET 17 OF 29 SHEETS	



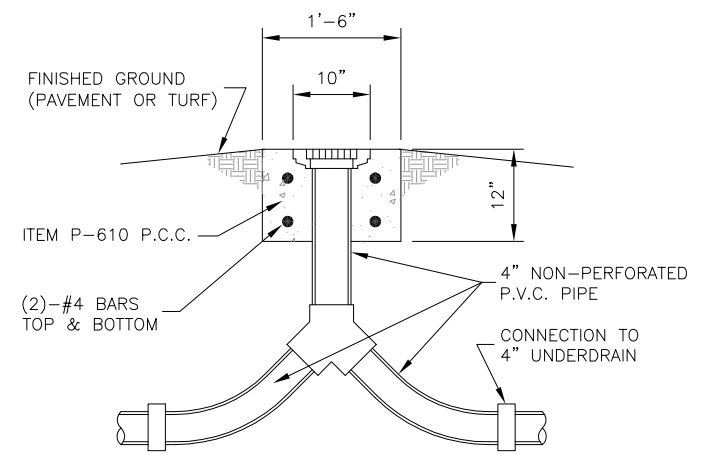
UNDERDRAIN CLEAN-OUT DETAIL - TYPE 1
 N.T.S.



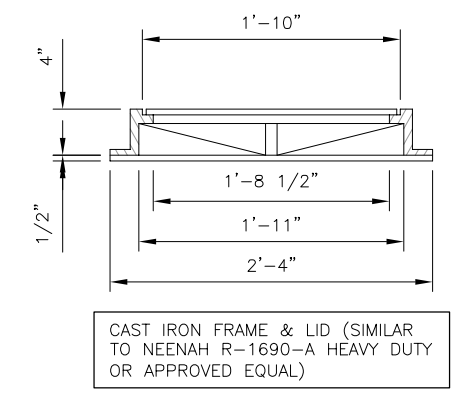
UNDERDRAIN DIRECT TOP CONNECTION DETAIL
 N.T.S.



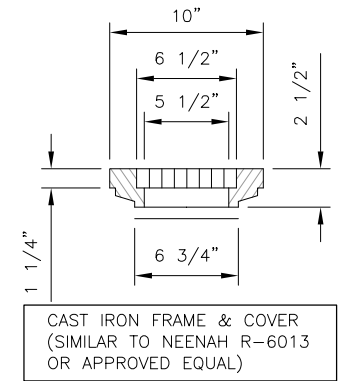
TYPICAL UNDERDRAIN DETAIL PAVEMENT EDGE
 N.T.S.



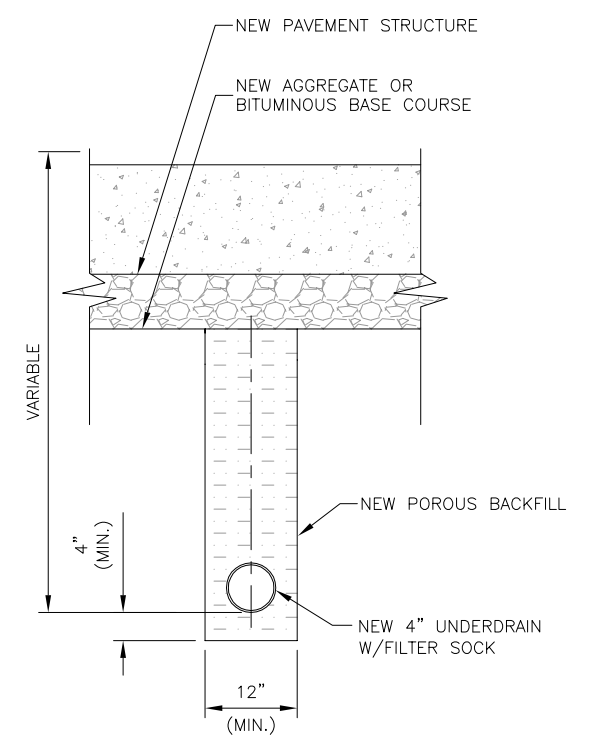
UNDERDRAIN CLEAN-OUT DETAIL - TYPE 2
 N.T.S.



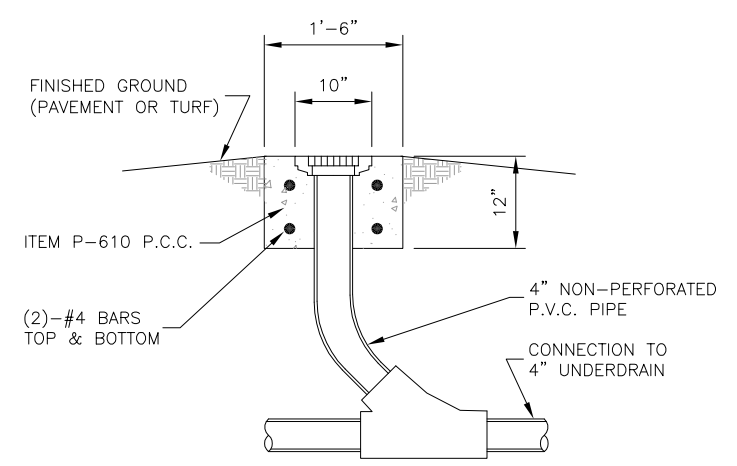
FRAME AND LID



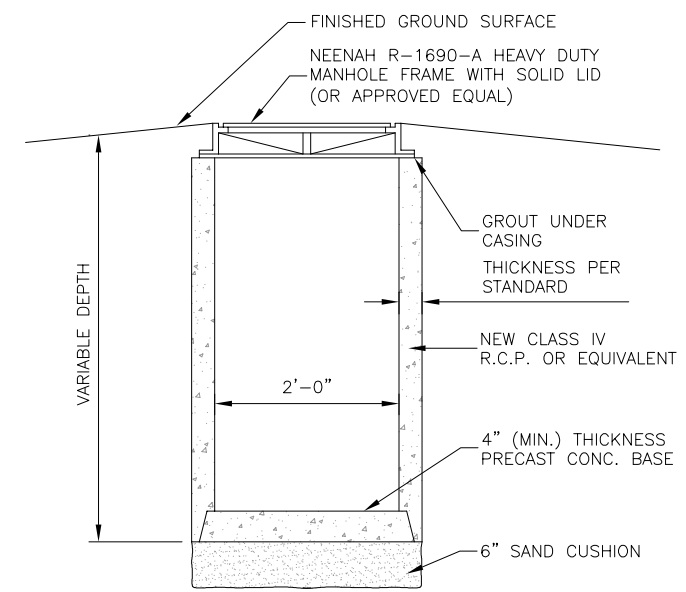
FRAME AND COVER



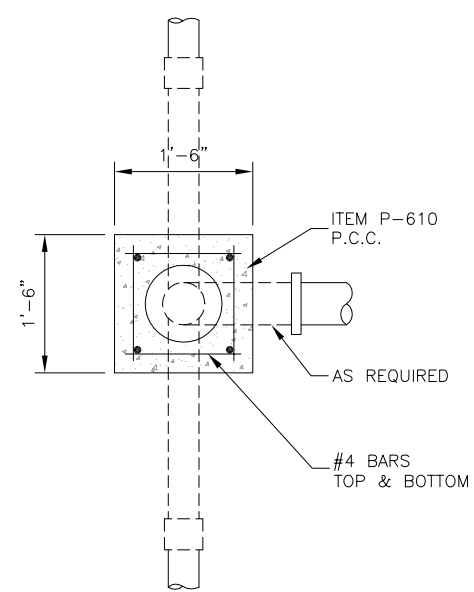
TYPICAL UNDERDRAIN DETAIL BELOW PAVEMENT
 N.T.S.



UNDERDRAIN CLEAN-OUT DETAIL - TYPE 3
 N.T.S.



UNDERDRAIN COLLECTION STRUCTURE DETAIL
 N.T.S.



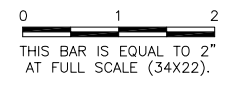
UNDERDRAIN CLEAN-OUT DETAILS
 N.T.S.

NOTES

DURING UNDERDRAIN CONSTRUCTION, CARE SHALL BE TAKEN TO ENSURE GOOD DRAINAGE BETWEEN THE SUB-BASE AND THE POROUS BACKFILL MATERIAL WHICH WILL AFFECT DRAINAGE TO THE UNDERDRAIN SHALL BE REMOVED PRIOR TO THE PLACEMENT OF PROPOSED POROUS BACKFILL. ALL COST FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL.

UN050

REVISIONS		
NUMBER	BY	DATE



WILLARD AIRPORT
UNIVERSITY OF ILLINOIS
IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
UNDERDRAIN DETAIL

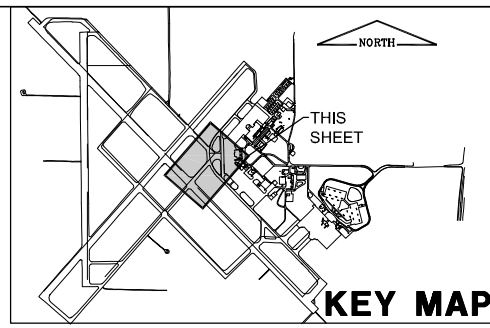
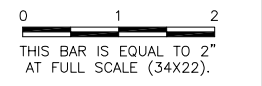
© Copyright CMT, Inc.
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

FINAL PLANS

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL PROJ. NO.	CMI-4099
AIP PROJ. NO.	3-17-0016-XX
SHEET	18 OF 29 SHEETS

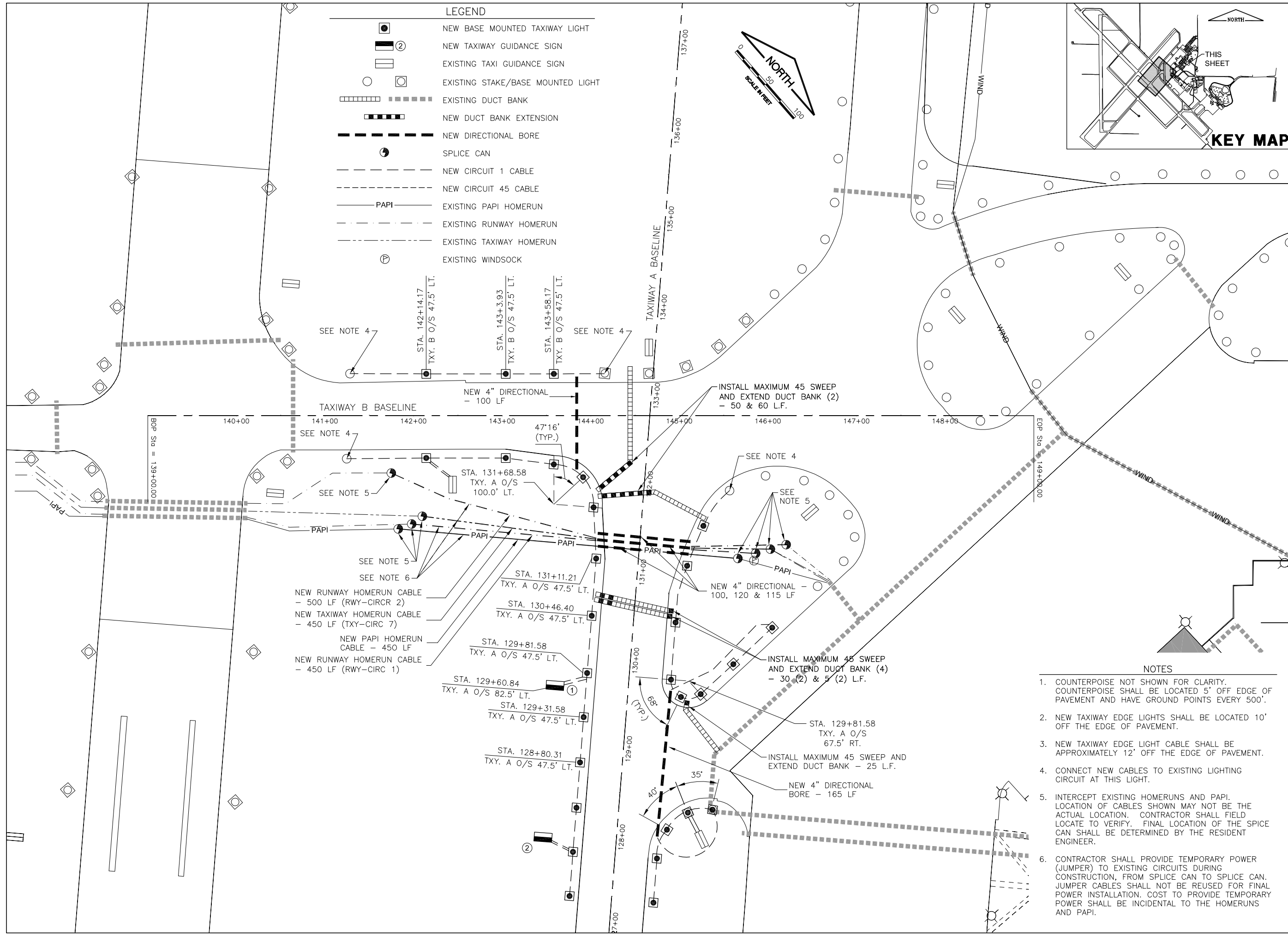
UN050

REVISIONS		
NUMBER	BY	DATE



LEGEND

	NEW BASE MOUNTED TAXIWAY LIGHT
	NEW TAXIWAY GUIDANCE SIGN
	EXISTING TAXI GUIDANCE SIGN
	EXISTING STAKE/BASE MOUNTED LIGHT
	EXISTING DUCT BANK
	NEW DUCT BANK EXTENSION
	NEW DIRECTIONAL BORE
	SPLICE CAN
	NEW CIRCUIT 1 CABLE
	NEW CIRCUIT 45 CABLE
	EXISTING PAPI HOMERUN
	EXISTING RUNWAY HOMERUN
	EXISTING TAXIWAY HOMERUN
	EXISTING WINDSOCK



- NOTES**
- COUNTERPOISE NOT SHOWN FOR CLARITY. COUNTERPOISE SHALL BE LOCATED 5' OFF EDGE OF PAVEMENT AND HAVE GROUND POINTS EVERY 500'.
 - NEW TAXIWAY EDGE LIGHTS SHALL BE LOCATED 10' OFF THE EDGE OF PAVEMENT.
 - NEW TAXIWAY EDGE LIGHT CABLE SHALL BE APPROXIMATELY 12' OFF THE EDGE OF PAVEMENT.
 - CONNECT NEW CABLES TO EXISTING LIGHTING CIRCUIT AT THIS LIGHT.
 - INTERCEPT EXISTING HOMERUNS AND PAPI. LOCATION OF CABLES SHOWN MAY NOT BE THE ACTUAL LOCATION. CONTRACTOR SHALL FIELD LOCATE TO VERIFY. FINAL LOCATION OF THE SPLICE CAN SHALL BE DETERMINED BY THE RESIDENT ENGINEER.
 - CONTRACTOR SHALL PROVIDE TEMPORARY POWER (JUMPER) TO EXISTING CIRCUITS DURING CONSTRUCTION, FROM SPLICE CAN TO SPLICE CAN. JUMPER CABLES SHALL NOT BE REUSED FOR FINAL POWER INSTALLATION. COST TO PROVIDE TEMPORARY POWER SHALL BE INCIDENTAL TO THE HOMERUNS AND PAPI.

**WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS**

**IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
 LIGHTING PLAN 1**

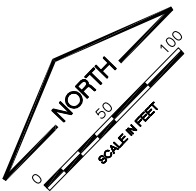
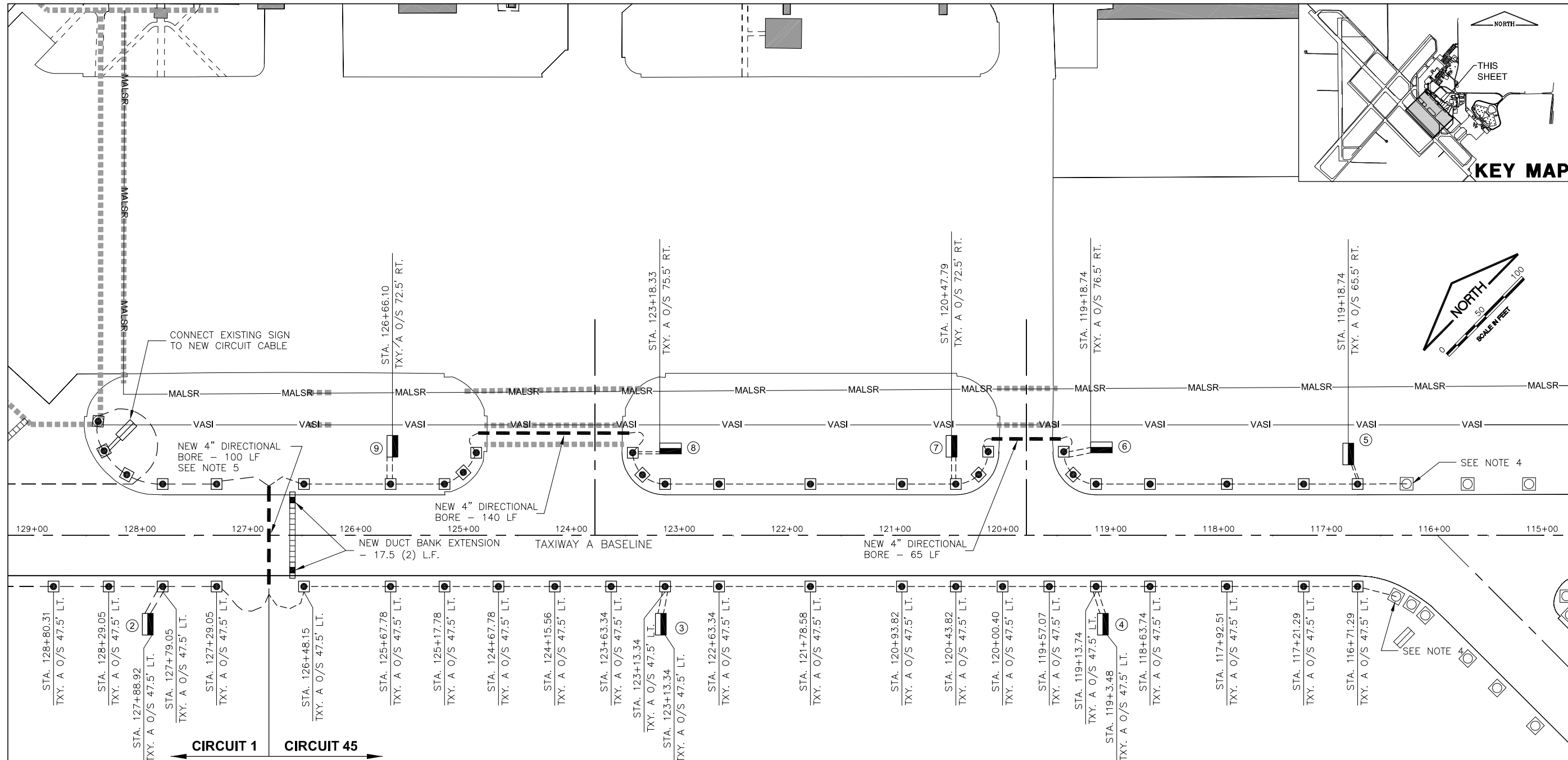
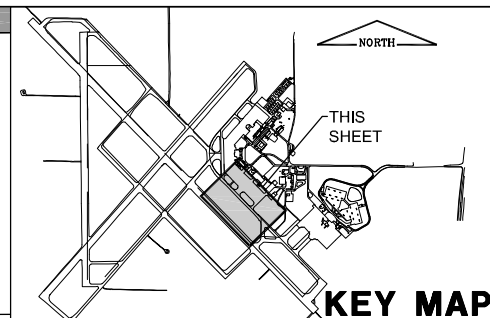
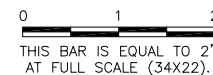
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL PROJ. NO.	CMI-4099
AIP PROJ. NO.	3-17-0016-XX
SHEET	19 OF 29 SHEETS

UN050

REVISIONS

NUMBER	BY	DATE



**WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS**

IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A

LIGHTING PLAN 2

LEGEND

- NEW BASE MOUNTED TAXIWAY LIGHT
- NEW TAXIWAY GUIDANCE SIGN
- EXISTING TAXI GUIDANCE SIGN
- EXISTING STAKE/BASE MOUNTED LIGHT
- EXISTING DUCT BANK
- NEW DIRECTIONAL BORE
- SPLICE CAN
- NEW CIRCUIT 1 CABLE
- NEW CIRCUIT 45 CABLE
- EXISTING MALSR
- EXISTING VASI
- EXISTING RUNWAY HOMERUN
- EXISTING TAXIWAY HOMERUN

NOTES

1. COUNTERPOISE NOT SHOWN FOR CLARITY. COUNTERPOISE SHALL BE LOCATED 5' OFF EDGE OF PAVEMENT AND HAVE GROUND POINTS EVERY 500'.
2. NEW TAXIWAY EDGE LIGHTS SHALL BE LOCATED 10' OFF THE EDGE OF PAVEMENT.
3. NEW TAXIWAY EDGE LIGHT CABLE SHALL BE APPROXIMATELY 12' OFF THE EDGE OF PAVEMENT.
4. CONNECT NEW CABLES TO EXISTING LIGHTING CIRCUIT AT THIS LIGHT.
5. TAXIWAY CIRCUITS 1 AND 45 SHALL RUN THROUGH NEW DIRECTIONAL BORE. CIRCUIT 1 SHALL SERVE BOTH SIDES OF TAXIWAY A FROM DIRECTIONAL BORE TO THE NORTH. CIRCUIT 45 SHALL SERVE BOTH SIDES OF TAXIWAY FROM DIRECTIONAL BORE SOUTH.

© Copyright CMT, Inc.

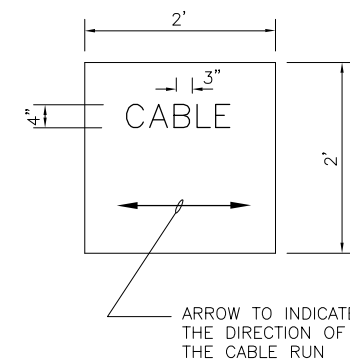
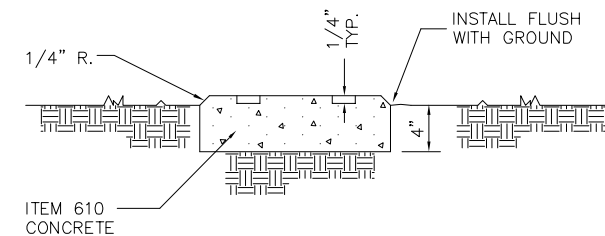


DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL PROJ. NO.	CMI-4099
AIP PROJ. NO.	3-17-0016-XX
SHEET	20 OF 29 SHEETS

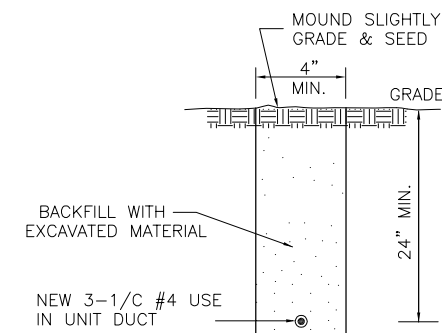
FINAL PLANS

NOTES:

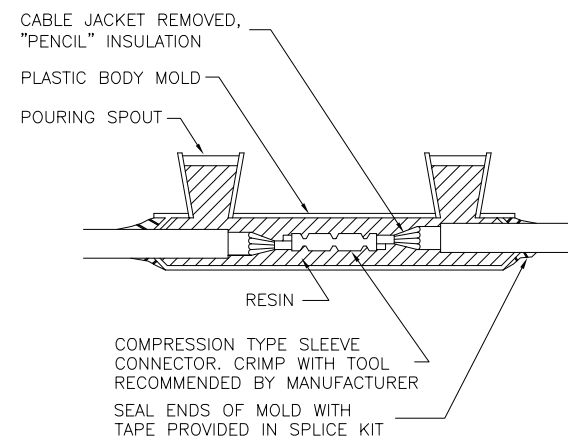
- 1.) CABLE MARKERS SHALL BE INSTALLED AT ALL BENDS AND EVERY 200' ALONG THE HOMERUN.
- 2.) THE COST OF FURNISHING AND INSTALLING NEW MARKERS SHALL BE INCIDENTAL TO THE ASSOCIATED ITEMS.
- 3.) A MARKER CONFORMING TO THIS DETAIL MARKED "SPLICE" SHALL BE INSTALLED AT ALL SPLICE LOCATIONS NOT IN LIGHT CANS OR MANHOLES.



TURF CABLE / SPLICE MARKER
 N.T.S.

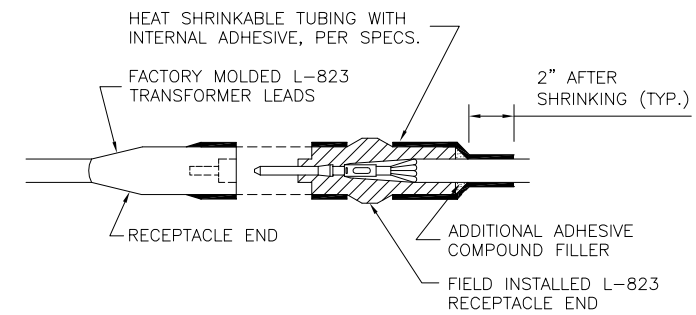


CABLE TRENCHED IN SOIL
 N.T.S.



FOR IN-LINE CONNECTIONS OF EXISTING CABLES CUT DURING CONSTRUCTIONS.

TYPE A



FOR SPLICES AT ISOLATION TRANSFORMERS.

TYPE C AND D

CABLE SPLICES

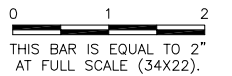
N.T.S.
 NOTES

1. INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE.
2. THE COST OF FURNISHING AND INSTALLING ALL SPLICE MATERIALS SHALL BE INCIDENTAL TO THE ASSOCIATED CABLE ITEMS.
3. THE CONTRACTOR SHALL HAVE A MINIMUM OF TWO (2) TYPE A SPLICE KITS ON THE JOB SITE AT ALL TIMES FOR EMERGENCY REPAIRS.

UN050

REVISIONS

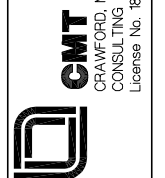
NUMBER	BY	DATE



WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS

IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
 ELECTRICAL DETAILS 1

© Copyright CMT, Inc.

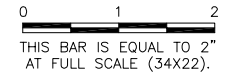


FINAL PLANS

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CET
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL. PROJ. NO. CMI-4099 AIP PROJ. NO. 3-17-0016-XX	
SHEET	21 OF 29 SHEETS

UN050

REVISIONS		
NUMBER	BY	DATE



**WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS**
IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
ELECTRICAL DETAILS 2

FINAL PLANS
© Copyright CMT, Inc.
 CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL PROJ. NO. CMI-4099 AIP PROJ. NO. 3-17-0016-XX	
SHEET 22 OF 29 SHEETS	

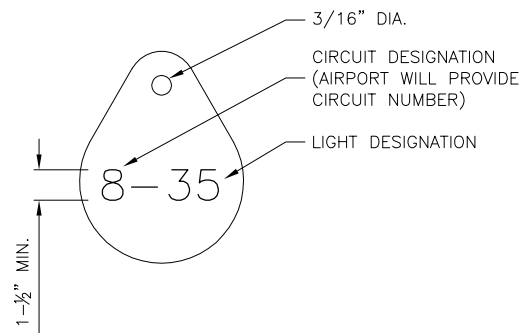
NOTES

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.

LEGENDS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR TO COORDINATE LEGEND WITH AIRPORT.

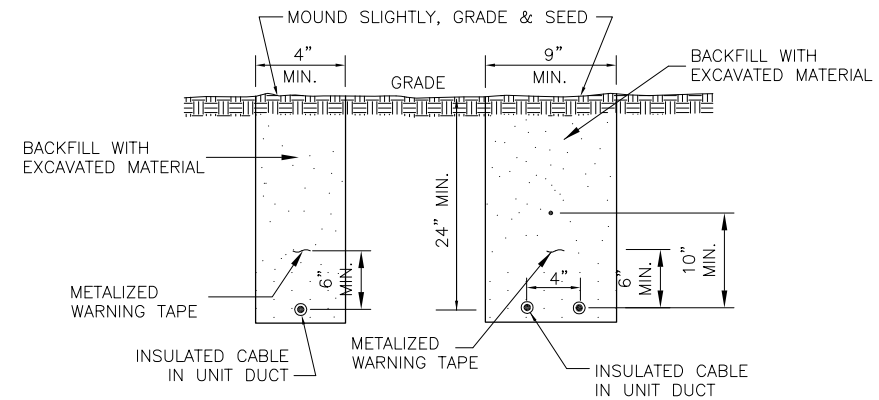
THE CONTRACTOR SHALL NUMBER THE EXISTING/PROPOSED LIGHTS AND SIGNS IN EACH CIRCUIT STARTING AT THE HOMERUN CONTINUING AROUND THE ENTIRE CIRCUIT BACK TO THE HOMERUN.

AIRFIELD SIGNS SHALL BE TAGGED & NUMBERED.



LIGHT IDENTIFICATION DETAIL

N.T.S.

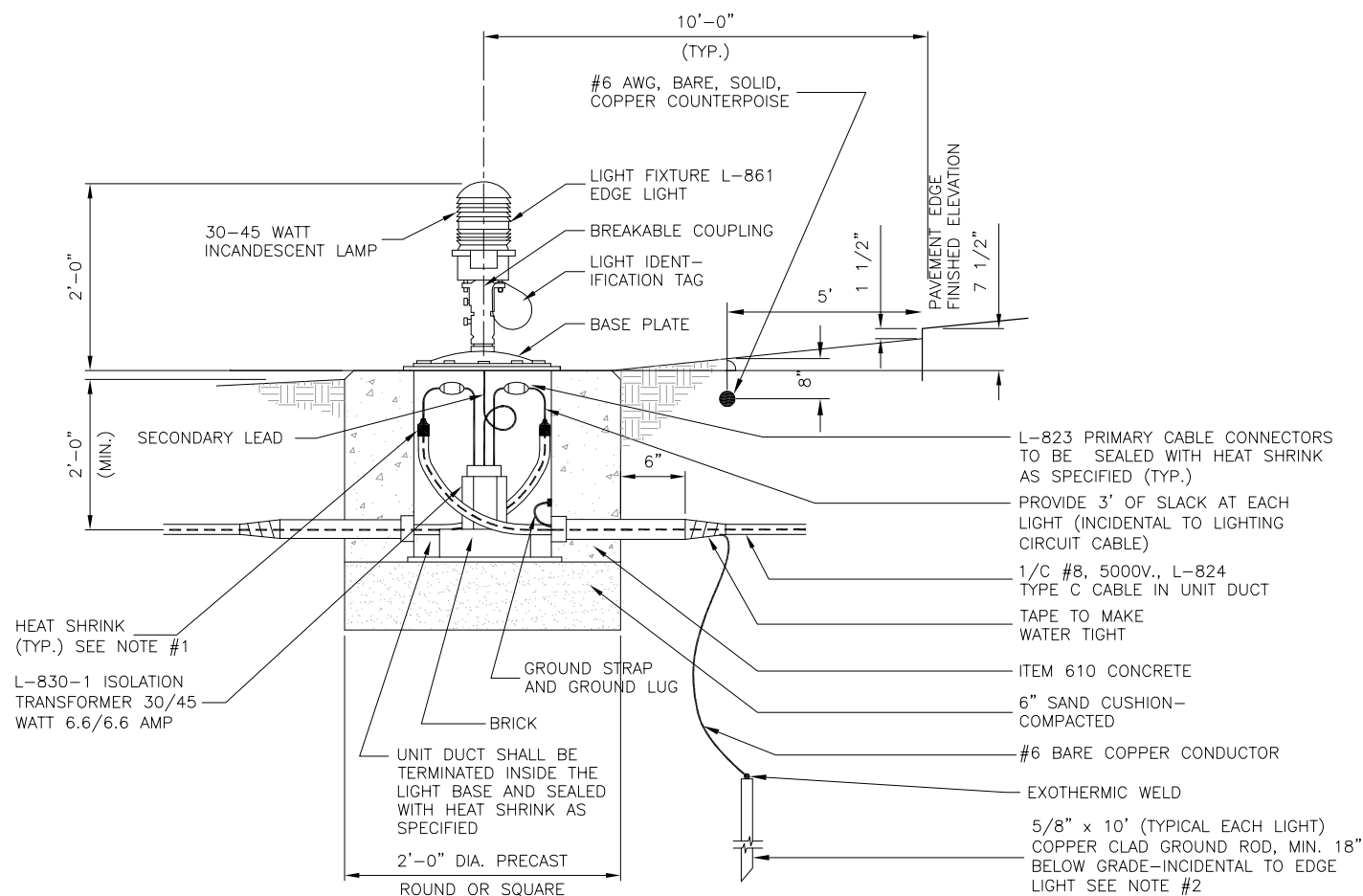


TRENCH DETAIL

N.T.S.

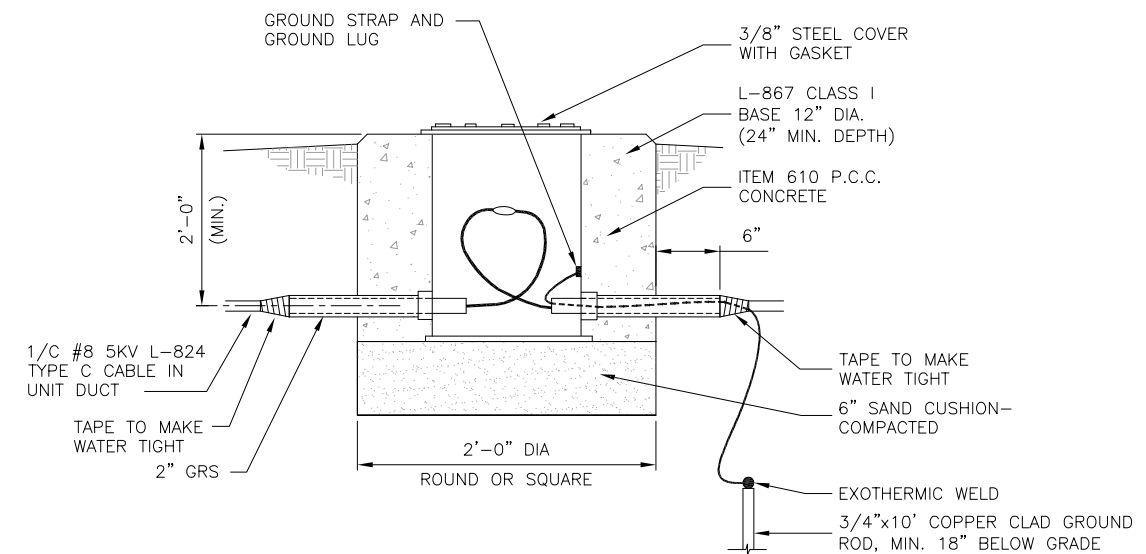
NOTES:

- TRENCHES WITH MORE THAN 2 CABLES SHALL BE INCREASED 3" IN WIDTH FOR EACH ADDITIONAL CABLE. IF SPECIFIED ON PLANS, TWO PARALLEL TRENCHES MAY BE CONSTRUCTED.
- DEPTH OF TRENCHES SHALL BE AS SHOWN ABOVE UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- SAND BACKFILL SHALL BE USED IF THE EXISTING SOIL DOES NOT MEET THE BACKFILL REQUIREMENTS.
- ALL DISTURBED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. COST IS INCIDENTAL TO ITEM 108.



BASE MOUNTED EDGE LIGHTS

N.T.S.

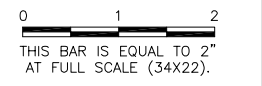


SPLICE CAN DETAIL

N.T.S.

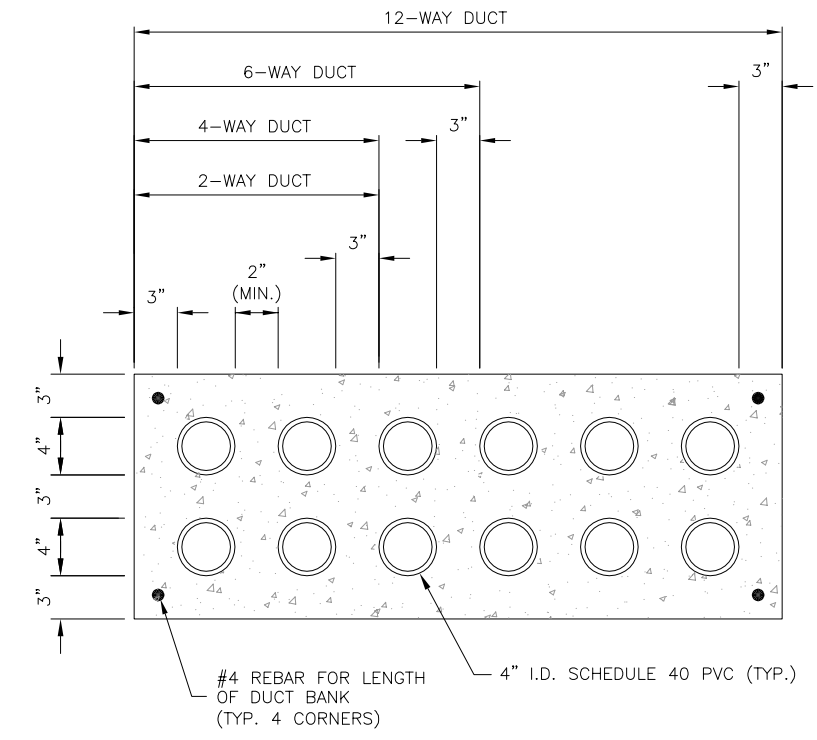
UN050

REVISIONS		
NUMBER	BY	DATE

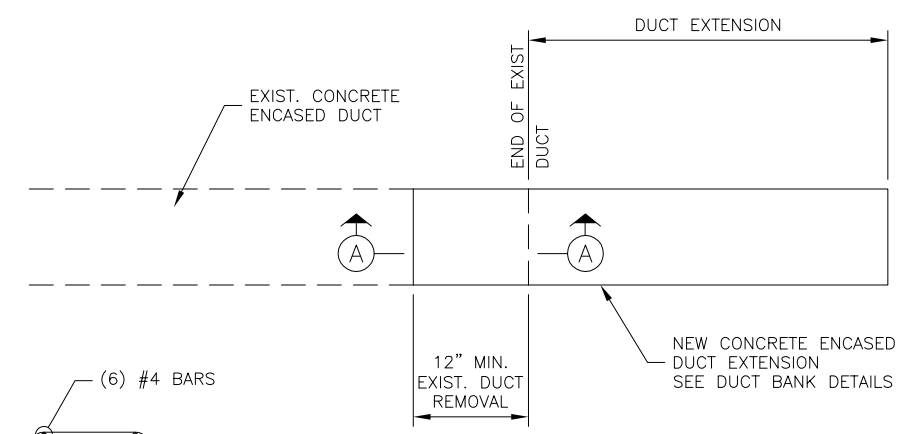


DUCT BANK DETAIL NOTES

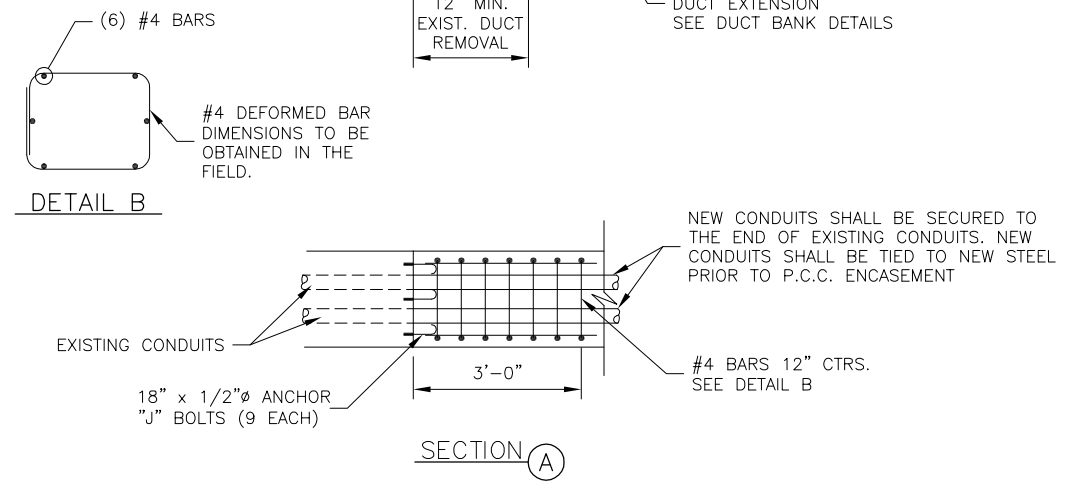
1. DIMENSIONS SHOWN ARE MINIMUM.
2. TOP OF CONCRETE ENCASEMENT TO BE NOT LESS THAN 18" BELOW FINISHED SUBGRADE.
3. DUCT CONCRETE SHALL BE ITEM 610 STRUCTURAL P.C.C. CONCRETE.
4. ALL DUCT SHALL BE 4" INSIDE DIAMETER.
5. LOCATIONS SHOWN ARE APPROXIMATE. DUCT BANKS SHALL BE INSTALLED AT LOCATIONS DESIGNATED BY THE RESIDENT ENGINEER.
6. CONTRACTOR SHALL INSTALL DUCT BANKS AT A DEPTH WHICH WILL NOT CONFLICT WITH ELEVATION UTILITIES.
7. A PULL WIRE SHALL BE PROVIDED IN EACH UNUSED CONDUIT. UNUSED DUCT SHALL BE SEALED WITH PVC PLUGS/CAPS TO THE SATISFACTION OF THE ENGINEER.
8. DUCT BANKS SHALL EXTEND A MINIMUM OF 5' BEYOND THE NEW EDGE OF PAVEMENT.



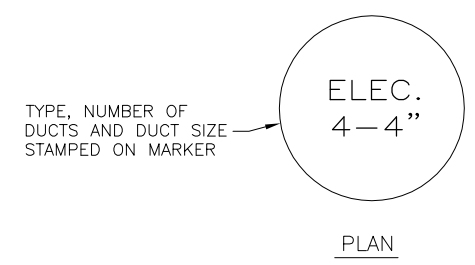
DUCT BANK DETAIL
N.T.S.



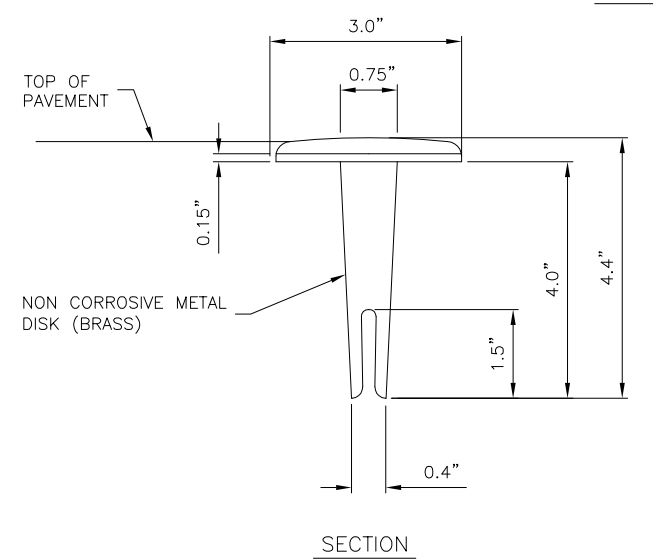
DUCT EXTENSION DETAIL
N.T.S.



SECTION A

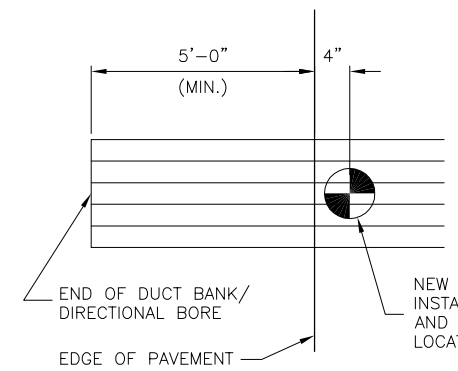


PLAN



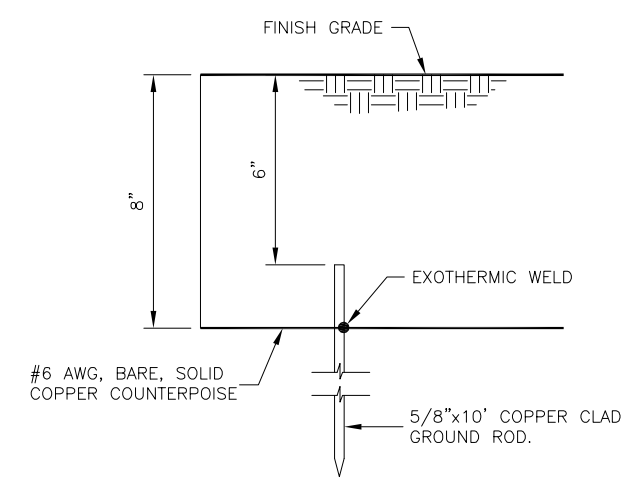
SECTION

DUCT MARKER DETAILS
N.T.S.



MARKER PLACEMENT

DUCT MARKERS SHALL BE RECESSED AND GROUTED INTO THE PAVEMENTS. DUCT MARKERS SHALL BE INCIDENTAL TO DIRECTIONAL BORE AND DUCT EXTENSION



NOTE:
GROUND RODS SHALL BE
INSTALLED AT 500' INTERVALS

COUNTERPOISE INSTALLATION
N.T.S.

**WILLARD AIRPORT
UNIVERSITY OF ILLINOIS**

**IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
DUCT DETAIL**

© Copyright CMT, Inc.



FINAL PLANS

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL PROJ. NO.	CMI-4099
AIP PROJ. NO.	3-17-0016-XX
SHEET	23 OF 29 SHEETS

SIGNAGE SCHEDULE

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	NOTES	PAY ITEM
1	NW SE	A ←B C ↑A D ↓E 1↘	-	←B C ↑D ↓E 1↘	A A	10	NEW SIGN	AR125450
2	NW SE	A A E ↗	-	E ↗	A	3	NEW SIGN	AR125443
3	NW SE	- A A3 →	-	A3 →	A	4	NEW SIGN	AR125444
4	NW SE	- A A4 →	-	A4 →	A	4	NEW SIGN	AR125444
5	NW SE	A A5 ↗ FBO →	-	A5 ↗ FBO →	A -	4	NEW SIGN	AR125444
6	NE SW	A4 ←A → -	-	←A →	A4 -	5	NEW SIGN	AR125445
7	NW SE	- ←A4 A	-	←A4	A	4	NEW SIGN	AR125444
8	NE SW	- A3 ←A →	-	←A →	A3 -	5	NEW SIGN	AR125445
9	NW SE	- ←A3 A	-	←A3	A	4	NEW SIGN	AR125444

K:\ChampaignAp\1105904\Draw\Sheets
FILE: AIRFIELD SIGNAGE DETAIL.dwg
UPDATE BY: Chris Groth
PLOT DATE: 6/14/2011 1:16 PM

UN050

REVISIONS

NUMBER	BY	DATE

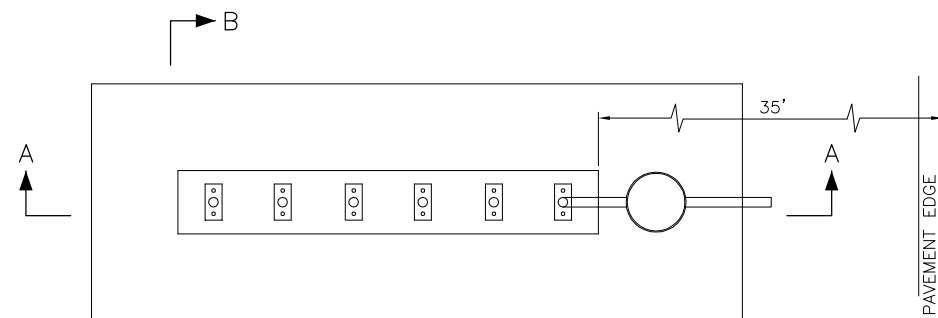
0 1 2
THIS BAR IS EQUAL TO 2"
AT FULL SCALE (34X22).

WILLARD AIRPORT
UNIVERSITY OF ILLINOIS
IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
AIRFIELD SIGNAGE DETAIL

© Copyright CMT, Inc.
CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

FINAL PLANS

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL. PROJ. NO. CMI-4099 AIP PROJ. NO. 3-17-0016-XX	
SHEET	24 OF 29 SHEETS

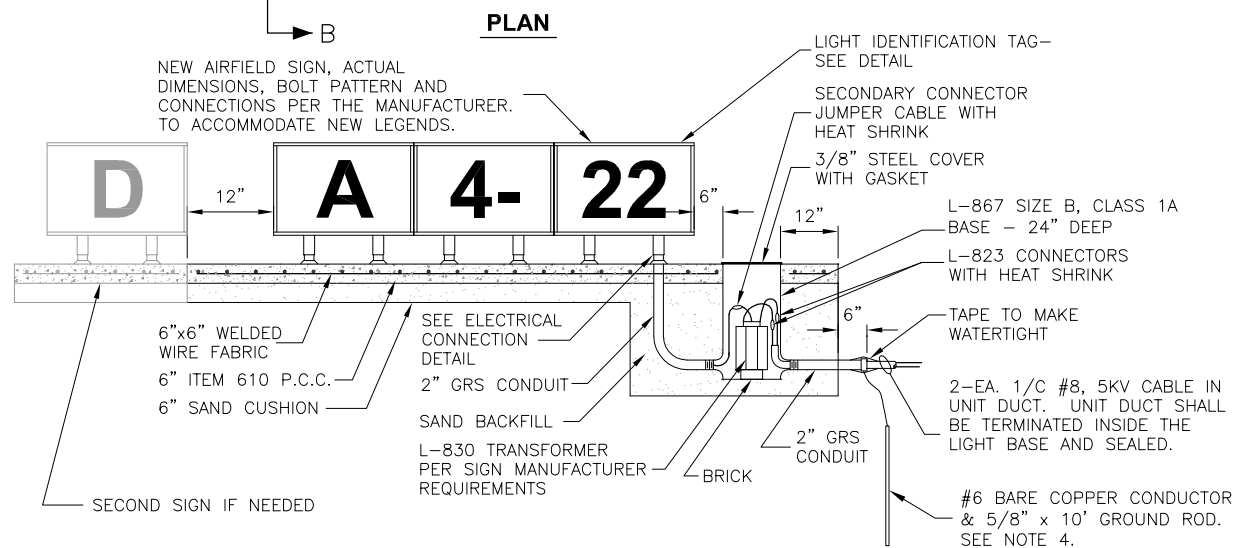


AIRFIELD SIGN NOTES

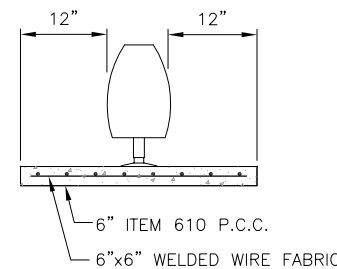
1. TRANSFORMER WATTAGE SHALL BE AS REQUIRED BY SIGN MANUFACTURER.
2. SIGN LEGEND SHALL BE AS SHOWN IN THE PLANS.
3. SIGNS SHALL BE SIZE 2, STYLE 2, CLASS 2.
4. LEGEND SHALL START AT END OF SIGN CLOSEST TO PAVEMENT EDGE. IF MULTIPLE SIGNS ARE USED FOR SAME SIGN LEGEND THE LEGEND SHALL BEGIN ON SIGNS LOCATED CLOSEST TO PAVEMENT EDGE.

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.
4. SHOP DRAWINGS SHALL CORRESPOND TO THE LATEST, FAA APPROVED AND CERTIFIED SIGNAGE AND MARKING PLAN.



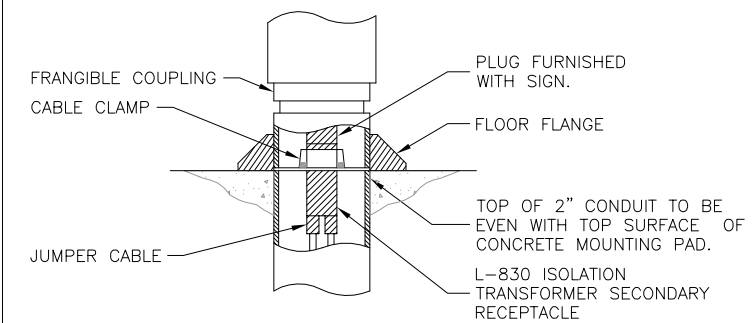
SECTION A-A



SECTION B-B

L-858 AIRFIELD SIGN DETAILS

N.T.S.

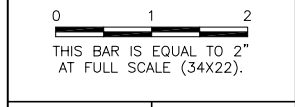


ELECTRICAL CONNECTION DETAIL

N.T.S.

UN050

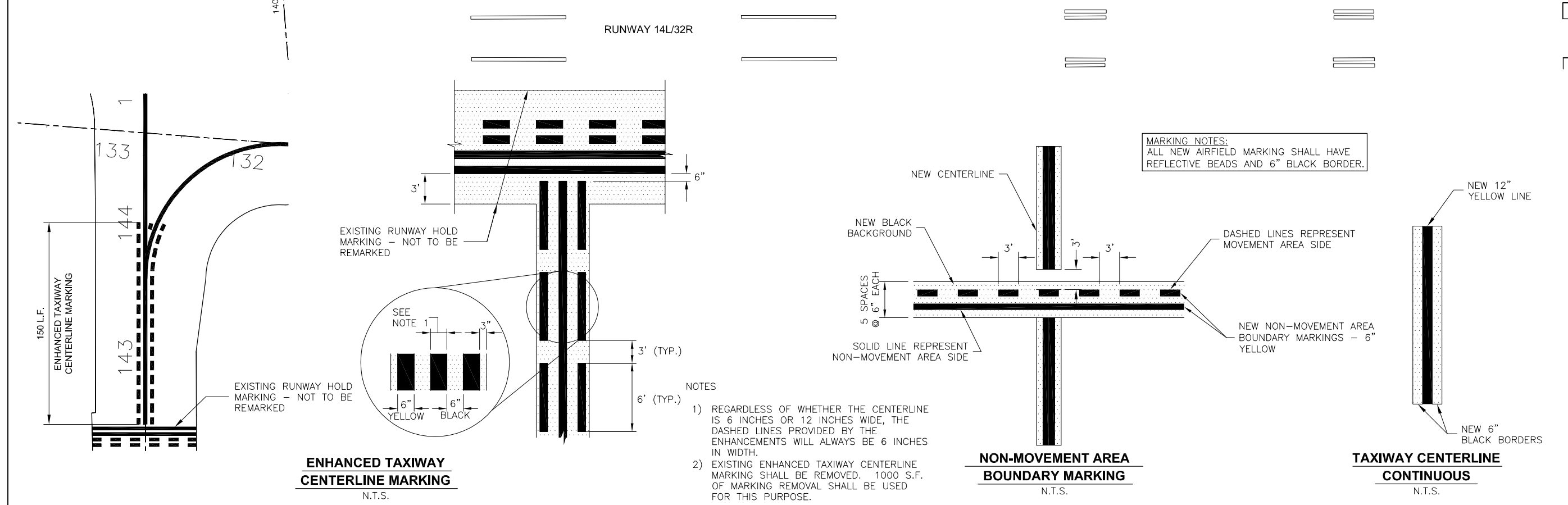
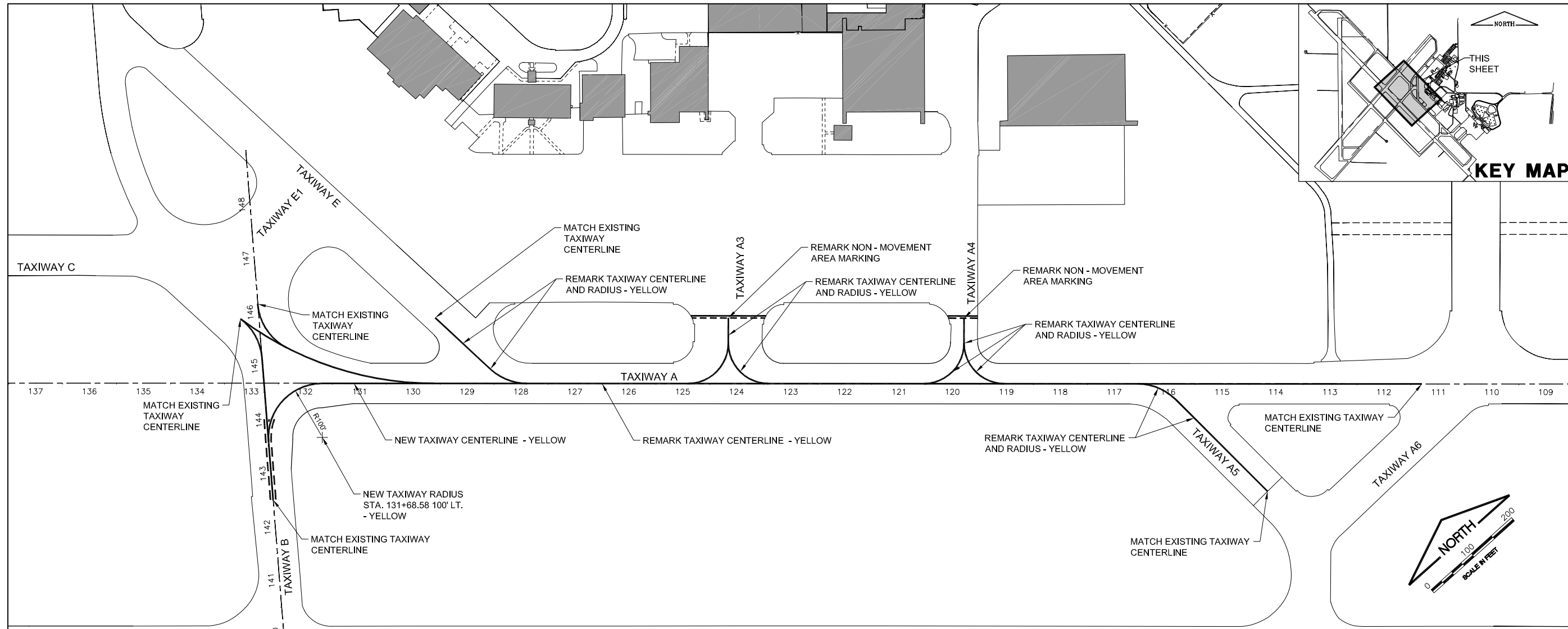
REVISIONS		
NUMBER	BY	DATE



WILLARD AIRPORT
UNIVERSITY OF ILLINOIS
IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
MARKING PLAN

FINAL PLANS
 © Copyright CMT, Inc.
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL PROJ. NO.	CMI-4099
AIP PROJ. NO.	3-17-0016-XX
SHEET	25 OF 29 SHEETS



- NOTES**
- REGARDLESS OF WHETHER THE CENTERLINE IS 6 INCHES OR 12 INCHES WIDE, THE DASHED LINES PROVIDED BY THE ENHANCEMENTS WILL ALWAYS BE 6 INCHES IN WIDTH.
 - EXISTING ENHANCED TAXIWAY CENTERLINE MARKING SHALL BE REMOVED. 1000 S.F. OF MARKING REMOVAL SHALL BE USED FOR THIS PURPOSE.

MARKING NOTES:
 ALL NEW AIRFIELD MARKING SHALL HAVE REFLECTIVE BEADS AND 6" BLACK BORDER.

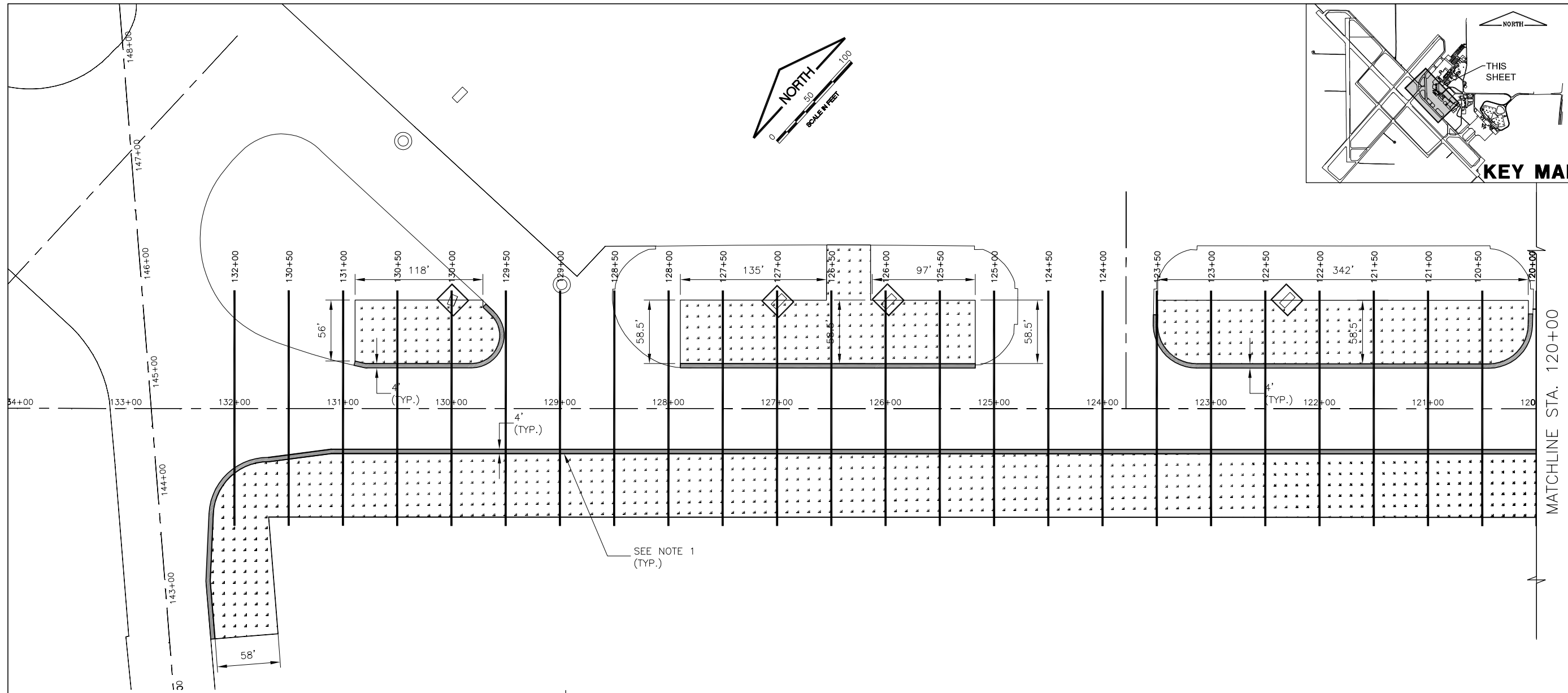
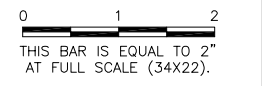
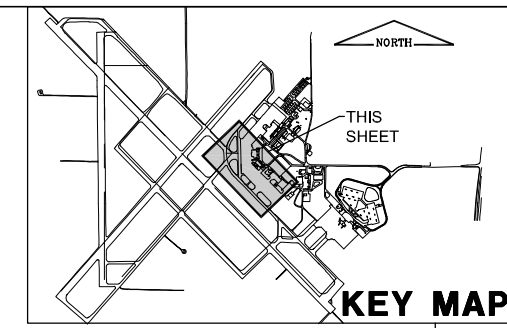
ENHANCED TAXIWAY CENTERLINE MARKING
 N.T.S.

NON-MOVEMENT AREA BOUNDARY MARKING
 N.T.S.

TAXIWAY CENTERLINE CONTINUOUS
 N.T.S.

UN050

REVISIONS		
NUMBER	BY	DATE



SEE NOTE 1 (TYP.)

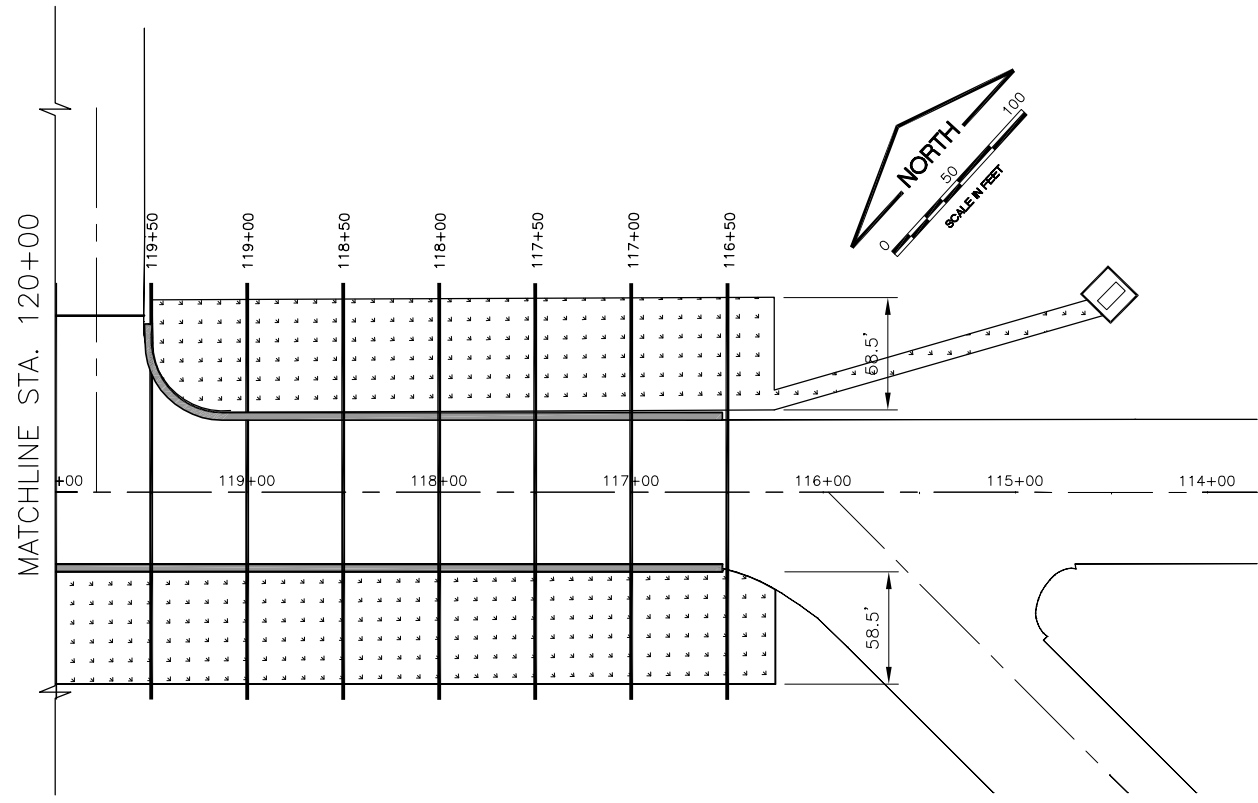
MATCHLINE STA. 120+00

EARTHWORK SUMMARY

STATION	CUT END AREA (S.F.)	FILL END AREA (S.F.)
TAXIWAY A		
116+50	55.6	0.0
117+00	54.7	16.8
117+50	51.9	19.0
118+00	46.9	31.9
118+50	44.9	43.9
119+00	46.3	29.3
119+50	23.1	20.6
120+00	22.8	20.2
120+50	46.8	31.4
121+00	45.0	39.2
121+50	46.5	38.7
122+00	44.9	42.0
122+50	45.6	43.9
123+00	47.4	21.7
123+50	23.0	18.8
124+00	22.7	22.1

EARTHWORK SUMMARY

STATION	CUT END AREA (S.F.)	FILL END AREA (S.F.)
TAXIWAY A		
124+50	22.1	19.1
125+00	22.8	11.7
125+50	48.0	13.9
126+00	47.7	59.9
126+50	51.6	4.9
127+00	47.7	49.1
127+50	48.9	30.4
128+00	23.4	9.7
128+50	23.7	6.2
129+00	24.3	2.9
129+50	49.5	2.0
130+00	45.8	22.8
130+50	44.6	23.8
131+00	46.7	36.5
131+50	69.0	23.7
132+00	102.7	32.0



MATCHLINE STA. 120+00

LEGEND

- NEW SOD LIMITS
- SEEDING & MULCHING
- INLET PROTECTION

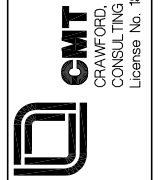
- NOTES:
- A 4' WIDE STRIP OF EXCELSIOR BLANKET SHALL BE PLACED ADJACENT TO THE SOD. THE REST OF THE AREA SHALL BE COVERED WITH A HYDRO MULCH.
 - 2000 L.F. OF SILT FENCE MAY BE PLACED OUTSIDE OF THE CONSTRUCTION LIMITS AT LOCATIONS DESIGNATED BY THE RESIDENT ENGINEER.
 - AN ADDITIONAL 250 SY OF EXCELSIOR BLANKET HAVE BEEN ADDED TO THE QUANTITIES FOR USE AT LOCATIONS DESIGNATED BY THE RESIDENT ENGINEER AS NEEDED.
 - AN ADDITIONAL 3 INLET PROTECTIONS HAVE BEEN ADDED TO THE QUANTITIES FOR USE AT LOCATIONS DESIGNATED BY THE RESIDENT ENGINEER AS NEEDED.

WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS

IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
 EROSION CONTROL

FINAL PLANS

© Copyright CMT, Inc.

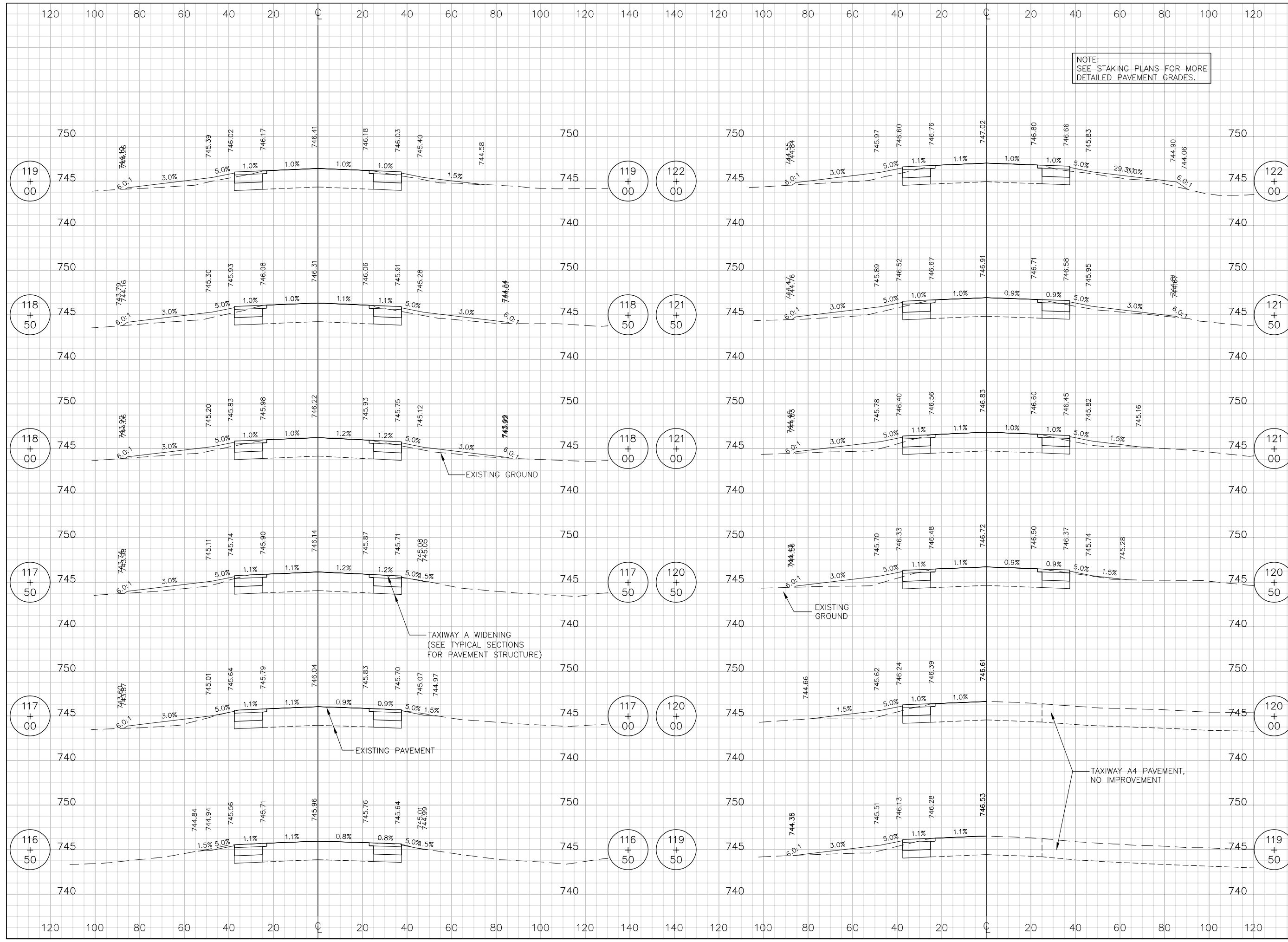
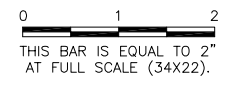


DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL. PROJ. NO. CMI-4099 AIP PROJ. NO. 3-17-0016-XX	
SHEET 26 OF 29 SHEETS	

NOTE:
 SEE STAKING PLANS FOR MORE
 DETAILED PAVEMENT GRADES.

UN050

REVISIONS		
NUMBER	BY	DATE



**WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS**

IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A

**TAXIWAY A CROSS SECTIONS SHEET 1
 STA. 116+50 TO STA. 122+00**

© Copyright CMT, Inc.

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

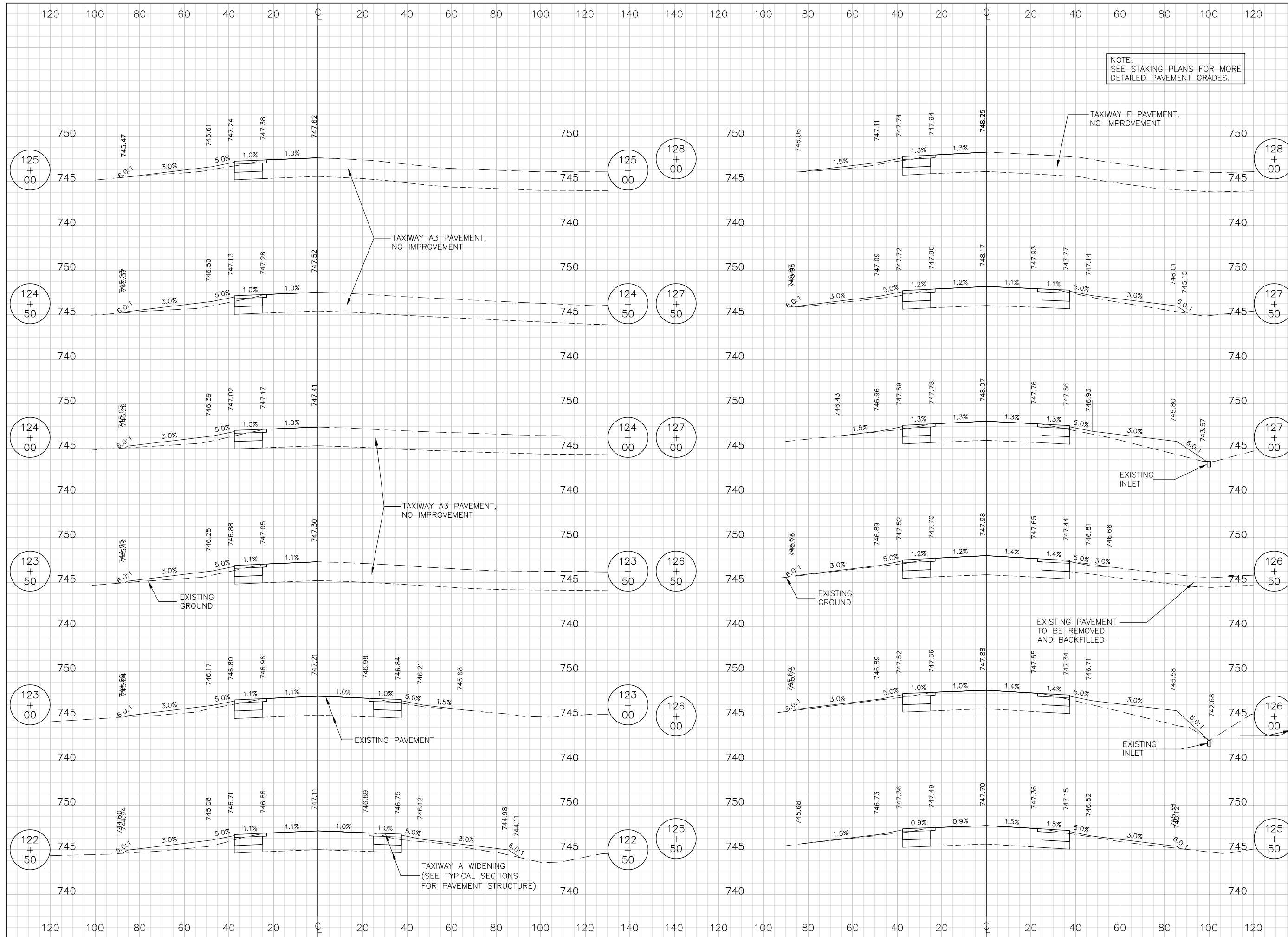
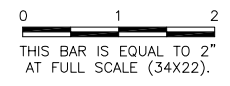
FINAL PLANS

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL PROJ. NO. CMI-4099 AIP PROJ. NO. 3-17-0016-XX	
SHEET 27 OF 29 SHEETS	

NOTE:
 SEE STAKING PLANS FOR MORE
 DETAILED PAVEMENT GRADES.

UN050

REVISIONS		
NUMBER	BY	DATE



**WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS**

**IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
 TAXIWAY A CROSS SECTIONS SHEET 2
 STA. 122+50 TO STA. 128+00**

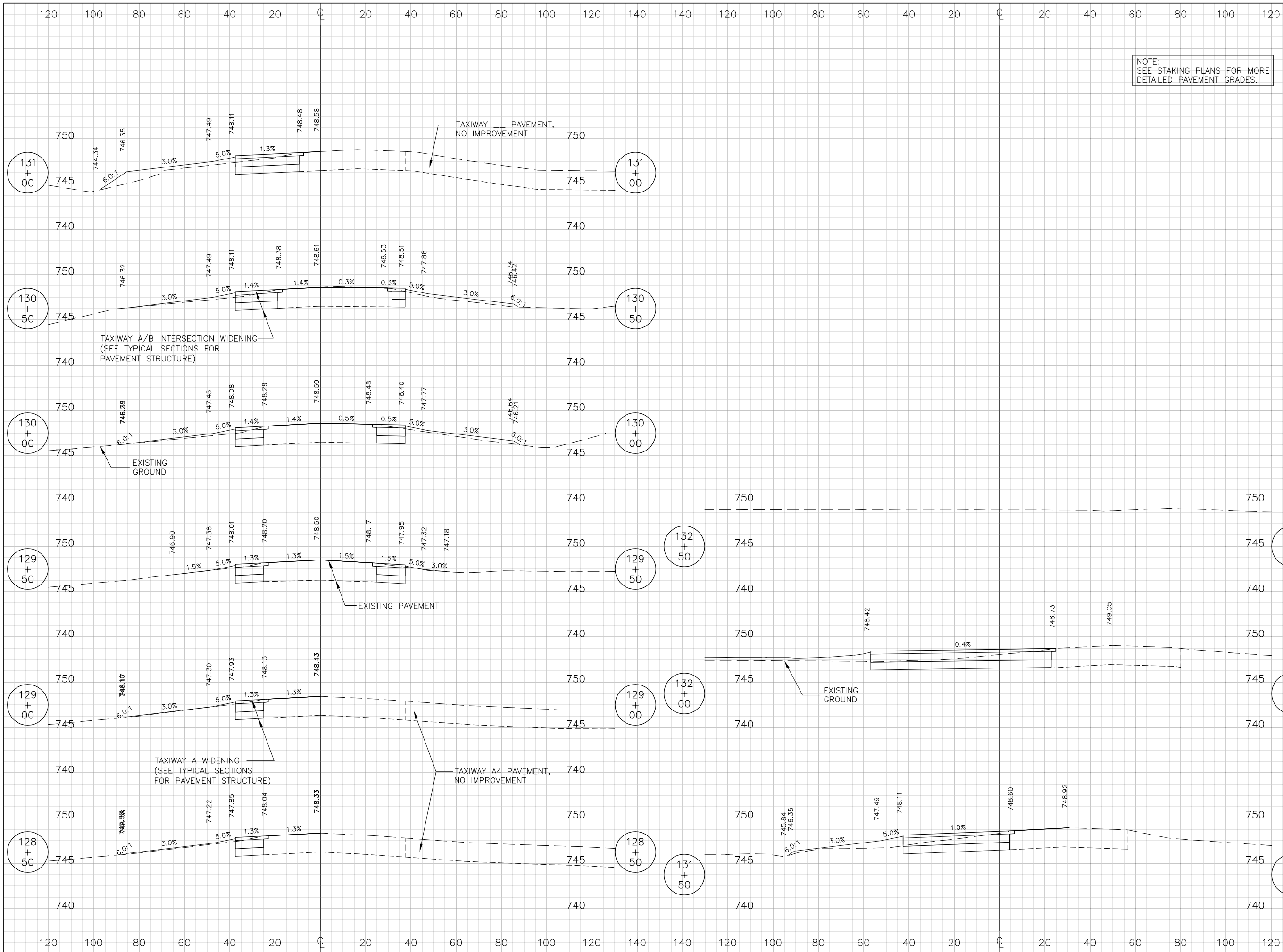
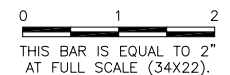
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL. PROJ. NO. CMI-4099 AIP PROJ. NO. 3-17-0016-XX	
SHEET 28 OF 29 SHEETS	

NOTE:
 SEE STAKING PLANS FOR MORE
 DETAILED PAVEMENT GRADES.

UN050

REVISIONS		
NUMBER	BY	DATE



**WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS**

**IMPROVE TAXIWAY A/B GEOMETRY; WIDEN TAXIWAY A
 TAXIWAY A CROSS SECTIONS SHEET 3
 STA. 128+50 TO STA. 135+50**

© Copyright CMT, Inc.
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

FINAL PLANS

DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	06-10-11
JOB No:	11059-04
IL. PROJ. NO. CMI-4099 AIP PROJ. NO. 3-17-0016-XX	
SHEET 29 OF 29 SHEETS	