CHICAGO EXECUTIVE AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS



CONSTRUCTION PLANS
FOR

CHICAGO EXECUTIVE AIRPORT

CONSTRUCT ENGINEERED MATERIALS ARRESTING SYSTEM (EMAS) PHASE 3B - RUNWAY 34 END (16 DEPARTURE END) INCLUDING RUNWAY 16/34 OFA/RSA IMPROVEMENTS AND SITEWORK

> ILLINOIS PROJECT: PWK-4182 S.B.G. PROJECT: 3-17-0018-48

> > **DATE: APRIL 19, 2013**

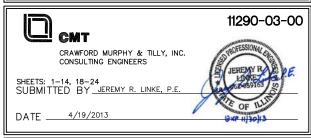
Know what's **below.**Call before you dig.

J.U.L.I.E.
JOINT UTILITY LOCATING
INFORMATION FOR EXCAVATORS
www.illinois1call.com

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ACTUAL LOCATIONS OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF HIS OPERATIONAL PLANS, OBTAIN FROM RESPECTIVE UTILITY COMPANIES OF HIS OPERATIONAL PLANS, OBTAIN FROM RESPECTIVE UTILITY COMPANIES POR THE FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION AND THE ONE—CALL NOTICE SYSTEM. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH UTILITY OR SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

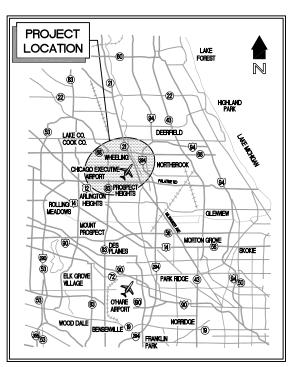
CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 811.

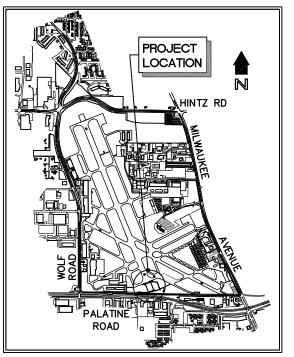
CHICAGO EXECUTIVE AIRPORT TOWNSHIP: 42 NORTH WHEELING TOWNSHIP RANGE: 11 EAST (SECTION: 13) COOK COUNTY











CONTRACTORS REGISTRATION WITH VILLAGE VILLAGE SITE ALTERATION PERMIT # CITY APPLICATION FOR PERMIT # CITY FLOODPLAIN PERMIT # CITY SITE GRADING PERMIT # CONTRACTORS REGISTRATION WITH CITY INDEX TO SHEETS COVER SHEET SUMMARY OF QUANTITIES AND GENERAL NOTES SITE PLAN/PROJECT CONTROL PLAN SEQUENCE OF CONSTRUCTION PER AC 150/5370-2F (LATEST EDITION) SEQUENCE OF CONSTRUCTION GENERAL NOTES SEQUENCE OF CONSTRUCTION SCHEDULE AND DETAILS STORM WATER POLLUTION PREVENTION PLAN STORM WATER POLLUTION PREVENTION PLAN NOTES STORM WATER POLLUTION PREVENTION PLAN DETAILS EXISTING CONDITIONS / PROPOSED REMOVALS TYPICAL SECTION PLAN AND PROFILE GRADING PLAN EMAS BLOCK LAYOUT PLAN EMAS SECTIONS EMAS DETAILS MARKING AND LIGHTING PLAN MARKING AND MISCELLANEOUS DETAILS ELECTRICAL DETAILS – SHEET 1 ELECTRICAL DETAILS – SHEET 2 INDEX TO CROSS SECTIONS/EARTHWORK SUMMARY CROSS SECTIONS - SHEET 2 ENGINEERING INFORMATION

PROJECT INFORMATION

IDOT LETTING DATE:

IDOT AWARD DATE: NOTICE TO PROCEED:

ORIGINAL CONTRACT AMOUNT:

FINAL CONSTRUCTION COST:

START OF CONSTRUCTION:

SUBSTANTIAL COMPLETION:

LOCAL AGENCY CONTACT INFORMATION

VILLAGE OF WHEELING - 847.459.2600 CITY OF PROSPECT HEIGHTS - 847.398.6070

CCDD LPC-663 DATED 3/6/12

MWRDGC PERMIT # 03-246 & RL 09-063

VILLAGE APP FOR CONSTRUCTION PERMIT #

ENGINEER'S PROJECT PERMIT LOG

VILLAGE FLOODPLAIN PERMIT #

CONTRACTOR: RESIDENT ENGINEER

NPDES # FAA AIRSPACE #

SITE PLAN

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SUMMARY OF QUANTITES

			TOTAL
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	1/C #8 XLP-USE 1/C #8 5KV UG CABLE	LF	813
	1/C #8 GROUND	LF LF	1,187
		LF LF	406
	2" PVC DUCT, DIRECT BURY	LF	1,000
	4-WAY CONCRETE ENCASED DUCT	LF	336
7 11 11 10000	SPLIT DUCT	LF	752
	ELECTRICAL HANDHOLE	EACH	2
	ADJUST ELECTRICAL MANHOLE	EACH	2
	MITL-BASE MOUNTED	EACH	4
	TAXI GUIDANCE SIGN, 5 CHARACTER	EACH	1
AR125610		PAIR	1
	REMOVE STAKE MOUNTED LIGHT	EACH	2
	REMOVE BASE MOUNTED LIGHT	EACH	2
	REMOVE REILS	PAIR	1
	ADJUST INPAVEMENT LIGHT	EACH	8
	ENGINEER'S FIELD OFFICE	LS	1
	MOBILIZATION	LS	1
	UNCLASSIFIED EXCAVATION	CY	2,591
AR152540	SOIL STABILIZATION FABRIC	SY	2,185
	SILT FENCE	LF	565
AR156511	DITCH CHECK	EACH	2
AR156520	INLET PROTECTION	EACH	6
AR162960	RELOCATE CLASS E FENCE	LF	40
AR208515	POROUS GRANULAR EMBANKMENT	CY	735
AR209608	CRUSHED AGG. BASE COURSE - 8"	SY	397
AR209610	CRUSHED AGG. BASE COURSE - 10"	SY	1,918
AR401610	BITUMINOUS SURFACE COURSE	TON	954
AR401650	BITUMINOUS PAVEMENT MILLING	SY	6,146
AR401900	REMOVE BITUMINOUS PAVEMENT	SY	150
AR401910	REMOVE & REPLACE BIT. PAVEMENT	SY	57
AR403610	BITUMINOUS BASE COURSE	TON	243
AR602510	BITUMINOUS PRIME COAT	GAL	605
AR603510	BITUMINOUS TACK COAT	GAL	1,097
AR620520	PAVEMENT MARKING - WATERBORNE	SF	18,994
AR620525	PAVEMENT MARKING - BLACK BORDER	SF	5,685
AR705506	6" PERFORATED UNDERDRAIN	LF	580
AR800154	REMOVE WOODEN TAXI GUIDANCE SIGN	EACH	2
AR800194	REMOVE ELEVATED RETROREFLECTIVE MARKER	EACH	3
AR800205	ELEVATED RETROREFLECTIVE MARKER - TYPE 1	EACH	6
AR800206	ELEVATED RETROREFLECTIVE MARKER - TYPE 2	EACH	27
	EMAS CONCRETE GRADE BEAM	LS	1
	EMAS BED INSTALLATION	LS	1
	EMAS BED	LS	1
	ROADWAY SIGN	EACH	3
AR901510		ACRE	2.4
	MULCHING	ACRE	2.4
	PECIALTY ITEM	, (6) (2	2.7

^{*} DENOTES SPECIALTY ITEM

UTILITY CONTACT LIST

UTILITY SERVICE OR FACILITY	CONTACT (PERSON)	CONTACT (PHONE)
AT&T, COMMONWEALTH EDISON, NICOR GAS, WIDE OPEN WEST, COMCAST, LEVEL 3 COMMUNICATIONS, MCI, ABOVENET, REDSPEED ILLINOIS, TDS METROCOM WEST SHORE PIPELINE NORTHWEST WATER COMMISION	J.U.L.I.E. (JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS)	811 <u>OR</u> 1–800–892–0123
AIRFIELD FAA CONTROL AND COMMUNICATION CABLES	FAA SECTOR FIELD OFFICE	(630) 587–7801
CITY OF PROSPECT HEIGHTS WATER, SANITARY AND STORM SEWER	OPERATIONS AND MAINTENANCE CITY OF PROSPECT HEIGHTS	(847) 459-0588
ILLINOIS AMERICAN WATER COMPANY — WATER, SANITARY AND STORM SEWER	SUPERVISOR OF CONSTRUCTION	(630) 739-8810
VILLAGE OF WHEELING WATER, SANITARY AND STORM SEWER	OPERATIONS AND MAINTENANCE	(847) 459–2985
METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO, SANITARY SEWER	FIELD OFFICE PERSONNEL	(708) 588–4055
MISCELLANEOUS COMMUNICATION CABLES	SIGNATURE FLIGHT GROUP AL PALICKI	(847) 537-1200
	ATLANTIC AVIATION DAVID KAUFMAN	(847) 808-0812

NOTES:

WHEN FAA CABLES ARE REQUIRED TO BE LOCATED, A 10 WORKING DAY ADVANCED NOTICE SHALL BE GIVEN TO THE FAA BEFORE ANY SUCH MARKINGS ARE REQUIRED. ONCE FAA MARKS THE CABLES, THE CONTRACTOR WILL BE REQUIRED TO SURVEY THE FAA UTILITIES SO THEY CAN BE REPLACED DURING CONSTRUCTION WITHOUT REMARKING BY THE FAA. THIS SHALL BE INCIDENTAL TO THE CONTRACT. THE FAA PERSONNEL ARE ONLY AVAILABLE FROM 9 AM TO 3 PM, MONDAY THROUGH FRIDAY WITH ADVANCED NOTICE.

MUNICIPALITIES GENERAL NOTES

- 1. THE CHICAGO EXECUTIVE AIRPORT IS A JOINT OWNERSHIP BY BOTH THE VILLAGE OF WHEELING AND CITY OF PROSPECT HEIGHTS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH VILLAGE/CITY CODES, ORDINANCES AND STANDARDS AS APPLICABLE.
- 3. ALL ELEVATIONS SHOWN ON PLANS ARE IN 1929 DATUM. SUBTRACT 0.24 FEET FROM ELEVATIONS SHOWN TO OBTAIN 1988 NAVD.
- 4. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE REGISTERED WITH THE VILLAGE/CITY PRIOR TO THE NOTICE TO PROCEED. ALL REGISTRATION FEES SHALL BE INCIDENTAL TO THE CONTRACT. 5. THE CONTRACTOR SHALL WORK WITH THE AIRPORT AND ENGINEER TO SECURE THE REQUIRED VILLAGE AND CITY LOCAL CONSTRUCTION PERMITS PRIOR TO THE NOTICE TO PROCEED.
- 6. ALL STORM SEWERS AND SANITARY SEWERS ON THE AIRPORT SITE ARE OWNED, OPERATED AND MAINTAINED BY THE CHICAGO EXECUTIVE AIRPORT UNLESS LABELED OTHERWISE.
- 7. THE CONTRACTOR SHALL COORDINATE WITH THE VILLAGE/CITY AT THE WEEKLY PROGRESS MEETINGS AND SHALL NOTIFY THE CITY OF PROSPECT HEIGHTS (847.398.6700) AND THE VILLAGE OF WHEELING (847.459.2600) A MINIMUM OF 48 HOURS PRIOR TO ANY REQUIRED VILLAGE/CITY INSPECTIONS.

- IL. CONTRACT: PA056
- IL. LETTING ITEM: 16A IL. PROJECT: PWK-4182

S.B.G. PROJECT: 3-17-0018-B48

SURVEY BOOK # BOOK #

REVISIONS NUMBER BY DATE

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

END) CHICAGO EXECUTIVE AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS CONSTRUCT EMAS - RUNWAY 34 END (16 DEPARTURE

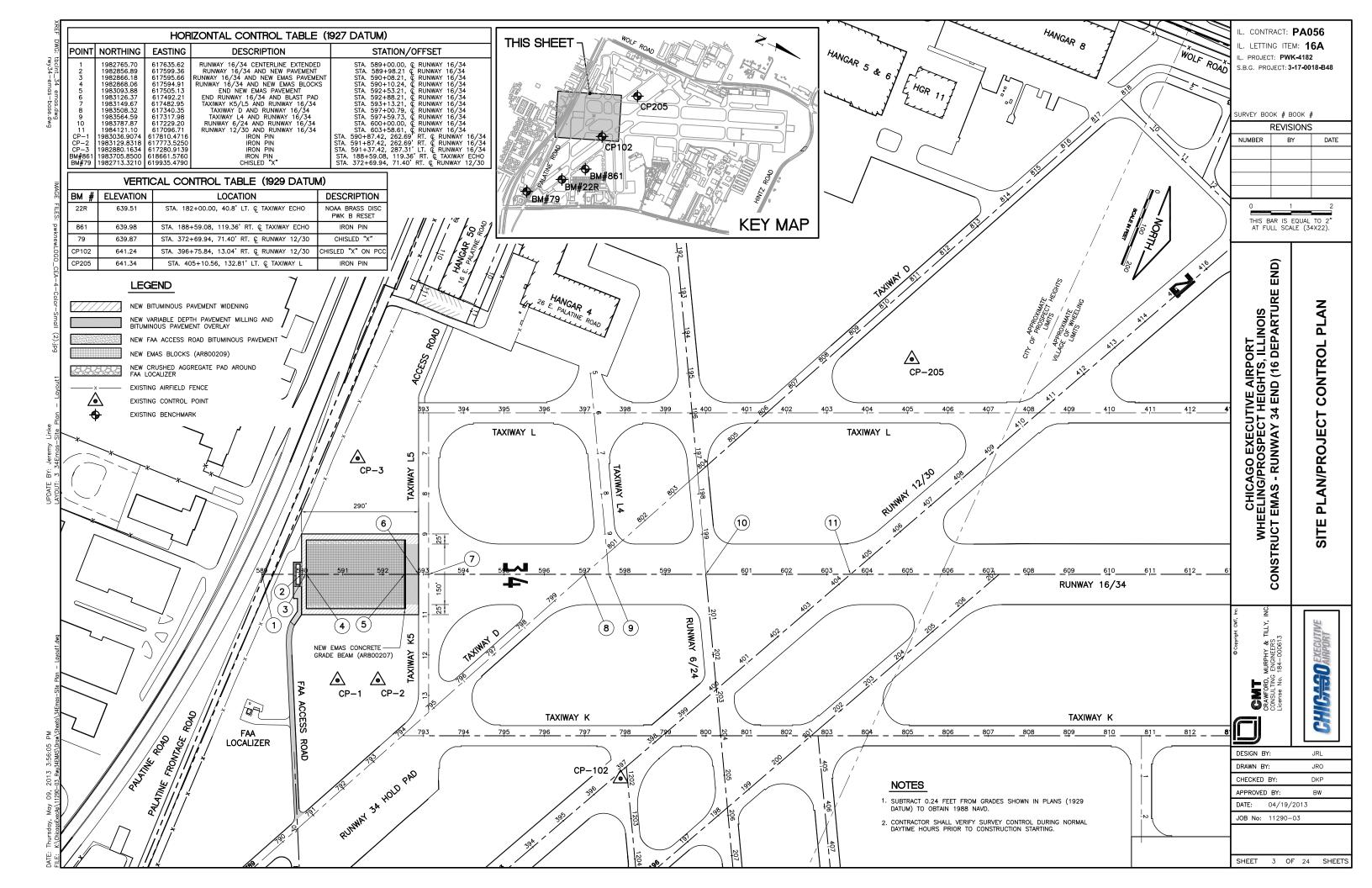
SUMMARY OF QUANTITIES AND GENERAL NOTES

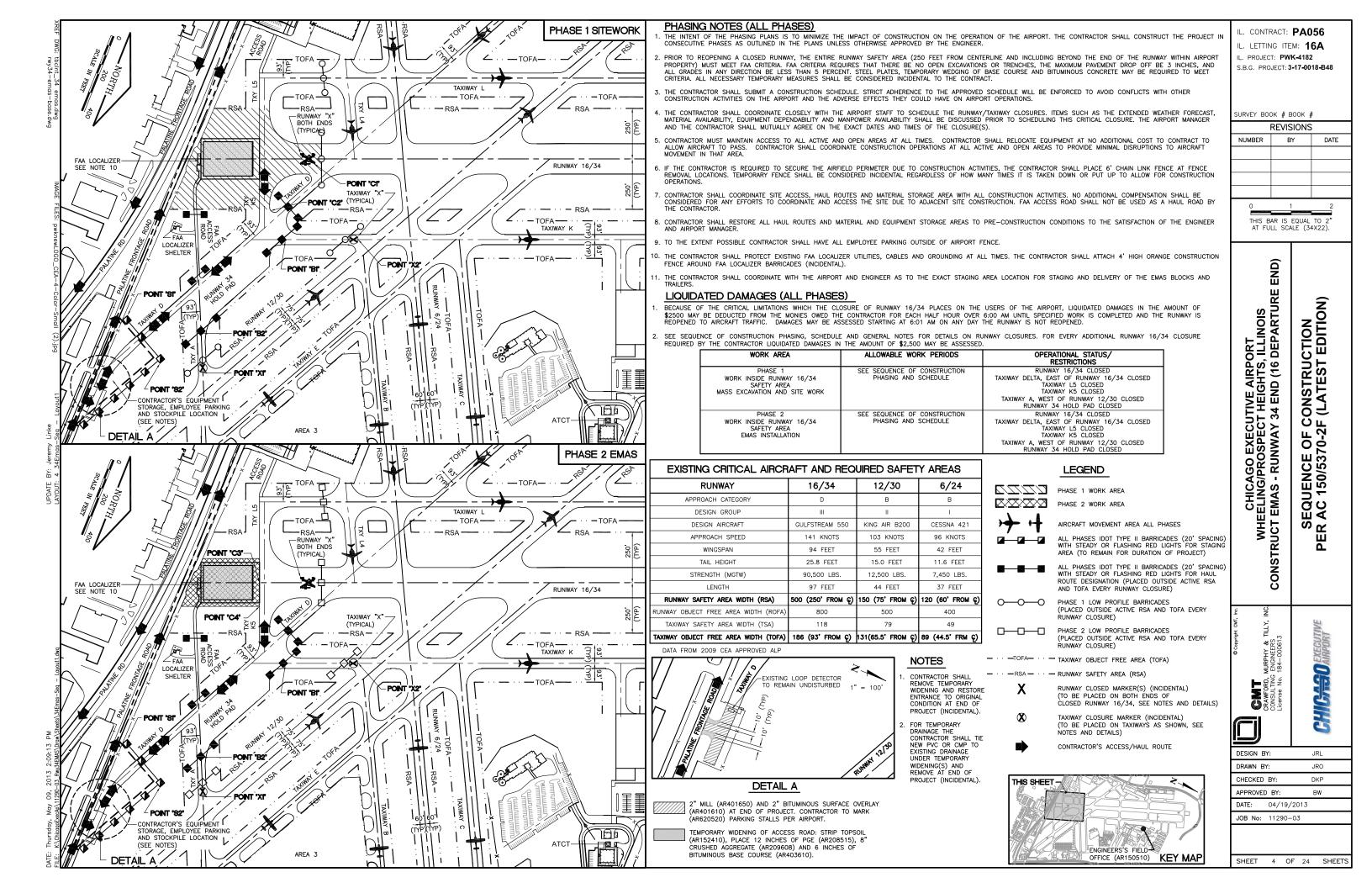
MURPHY & T ENGINEERS 184-000613 CRAWFORD, N CONSULTING License No.

CHICA-30 EXECUTIVE

DESIGN BY: JRL DRAWN BY: JRO CHECKED BY: DKP APPROVED BY: DATE: 04/19/2013 JOB No: 11290-03

SHEET 2 OF 24 SHEETS





- ALL OPERATIONS SHALL BE IN CONFORMANCE WITH AC 150/5370-2F (LATEST EDITION) OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.
- CONTRACTOR'S EQUIPMENT SHALL BE STORED IN THE EQUIPMENT AND MATERIAL STORAGE/STAGING AREA WHEN CONSTRUCTION IS NOT IN PROGRESS.
- . THE AIRPORT MANAGER IN CONSULTATION WITH THE RESIDENT ENGINEER SHALL HAVE FINAL SAY IN THE APPROVAL OF THE CONSTRUCTION OPERATING PHASING AND SEQUENCE AS IT RELATES TO PEDESTRIAN, VEHICILI AR AND AIRCRAFT SAFETY
- 5. ALL EXISTING PAVEMENTS, DRIVES OR ANY OTHER AREAS USED AS A HAUL ROAD OR STORAGE AREA BY THE CONTRACTOR SHALL BE RESTORED IN KIND TO THEIR PRE-CONSTRUCTION CONDITION OR TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT MANAGER. THE COST OF MAINTAINING, REPAIRING OR CONSTRUCTING THESE PAVEMENTS AND AREAS SHALL BE INCIDENTAL TO THE CONTRACT. EXISTING AREAS OUTSIDE THE PROJECT LIMITS WHICH ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND THE AIRPORT MANAGER.
- 6. THE CONTRACTOR SHALL KEEP ALL TRUCKS, EQUIPMENT AND MATERIALS OFF OF THE EXISTING TAXIWAYS, APRONS AND RUNWAYS, OUTSIDE OF THE PROJECT LIMITS EXCEPT AS SHOWN OR WITH THE PRIOR PERMISSION OF THE ENGINEER AND AIRPORT.
- 7. WORK PERFORMED BY THE CONTRACTOR OUTSIDE OF DAYLIGHT HOURS SHALL BE DONE UNDER SUFFICIENT ARTIFICIAL LIGHTING TO ALLOW FOR PROPER CONSTRUCTION METHODS AND INSPECTIONS. LIGHT SHALL CONSIST OF MOVABLE POLE MOUNTED FLOODLIGHTS AND/OR SPOTLIGHTS OF SUFFICIENT NUMBER TO ILLUMINATE THE WORK AREA. VEHICLE HEADLIGHTS WILL BE ALLOWED ONLY IN ADDITION TO OTHER LIGHTS MENTIONED ABOVE. LIGHTING SHALL BE AS APPROVED BY THE ENGINEER AND SHALL NOT BE USED IF THEY AFFECT FLIGHT SAFETY. CONTRACTOR'S WORK HOURS SHALL BE IN ACCORDANCE WITH LOCAL ORDINANCES.
- 8. THE CONTRACTOR SHALL PROVIDE PORTABLE FLOOD LIGHTING FOR NIGHTTIME CONSTRUCTION. SUFFICIENT UNITS SHALL BE PROVIDED SO THAT WORK AREAS ARE ILLUMINATED TO A LEVEL OF FIVE HORIZONTAL FOOT CANDLES. THE LIGHTING LEVELS SHALL BE CALCULATED AND MEASURED IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE ILLUMINATION ENGINEERING SOCIETY. LIGHTS SHALL BE POSITIONED SO AS NOT TO INTERFERE WITH AIRPORT OPERATIONS.
- 9. THE CONTRACTOR WILL BE REQUIRED TO HAVE A SWEEPER AVAILABLE FOR USE AT ALL TIMES. WHEN ACTIVE AIRFIELD PAVEMENTS ARE UTILIZED AS HAUL ROADS BY THE CONTRACTOR, MATERIAL TRACKED ON TO THE PAVEMENT SHALL BE CONTINUALLY REMOVED WITH SAID SWEEPER. THIS SWEEPING SHALL NOT BE PAID FOR SEPERATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- MATERIALS REMOVED FROM THE PROJECT WILL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF AIRPORT PROPERTY, UNLESS NOTED OTHERWISE.
- 11. PAYMENT FOR TRAFFIC CONTROL INCLUDING, BUT NOT LIMITED TO BARRICADES, CONSTRUCTION FENCE, SIGNING, RUNWAY AND TAXIWAY CLOSED MARKERS, SAFETY AND OBJECT FREE AREAS, LATHE AND RIBBON, ETC. SHALL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. BARRICADES AT 10-FOOT CENTERS WITH TWO ORANGE FLAGS (20" x 20") BETWEEN EACH SET OF BARRICADES OR 4' HIGH ORANGE CONSTRUCTION FENCE SECURELY ATTACHED TO EACH BARRICADE SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. BARRICADES SHALL BE WEIGHTED TO PREVENT BLOWING OVER. BARRICADES SHALL HAVE FLASHING RED LICHT(S) AND CONFORM TO IDOT STANDARD 701901-02, TYPE II AND LOW PROFILE BARRICADES AS DETAILED IN THE PLANS AND SEQUENCE OF CONSTRUCTION. BARRICADE INSTALLATION WILL BE REQUIRED PRIOR TO ACCESS TO THE WORK AREA BY CONTRACTOR'S WORKERS, EQUIPMENT OR MATERIAL. SIGNS SHALL BE PLACED AT EACH TAXIWAY/RUNWAY CLOSURE LOCATION AND SHALL BE ATTACHED TO THE BARRICADES. EACH BARRICADE LOCATION SHALL CONSIST OF ONE "DO NOT ENTER" SIGN AND ONE "AIRCRAFT MOVEMENT AREA" SIGN. SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. ALL BARRICADES SHALL BE PLACED OUTSIDE OF ACTIVE SAFETY AREAS AND OBJECT FREE AREAS.
- 12. THE CONTRACTOR SHALL CONTACT THE AIRPORT MANAGER THROUGH THE RESIDENT ENGINEER TEN (10) WORKING DAYS IN ADVANCE OF THE START OF CONSTRUCTION SO THAT THE APPROPRIATE NOTAMS MAY

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- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL CONSTRUCTION ACCESS GATES CLOSED DURING NON WORKING HOURS. THE CONTRACTOR SHALL PROVIDE A SIGN AT THE ACCESS GATE SAYING "AUTHORIZED PERSONNEL ONLY". THE CONTRACTOR SHALL CLOSE AND LOCK THE ACCESS GATE UPON LEAVING THE SITE. THROUGHOUT THE DURATION OF THE CONTRACT, ANY DAMAGES TO THE ACCESS ROAD, ACCESS GATE OR FENCING ADJACENT TO THE PROJECT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE RESIDENT ENGINEER. ALL COST RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 14. CONTRACTOR WILL BE REQUIRED TO PUT AIRPORT FLAGS OR A WORKING BEACON LIGHT ON ALL EQUIPMENT AT ALL TIMES DURING CONSTRUCTION. SEE FLAG DETAIL, THIS SHEET.
- 15. IN THE CASE OF AN EMERGENCY, CONTRACTOR SHALL NOTIFY AIRPORT MANAGER AND THE RESIDENT ENGINEER IMMEDIATELY.
- 16. DURING ADVERSE WEATHER, THE CONTRACTOR SHALL MAKE PROVISIONS FOR ACCESS TO THE WORK 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.
- 17. THE TALLEST PIECE OF CONSTRUCTION EQUIPMENT IS ANTICIPATED TO BE AN ASPHALT/STONE TRUCK WHICH HAS A MAXIMUM HEIGHT OF 25 FEET IN A DUMP POSITION.
- 18. IF RUNWAY NUMERALS ARE PRESENT DURING CONSTRUCTION THEN CONTRACTOR SHALL PLACE CLOSED RUNWAY MARKER OVER NUMERALS AS DETAILED, OTHERWISE PLACE RUNWAY CLOSED MARKER IN TURF AT ENDS OF RUNWAY AS DETAILED.
- 19. CHICAGO EXECUTIVE AIRPORT WILL BE IN OPERATION DURING THE CONSTRUCTION OF THIS PROJECT. COORDINATION OF WORK WITH THE AIRPORT IS MANDATORY SO AS TO MINIMIZE IMPACTS ON AIRPORT OPERATIONS.
- 20. APPROXIMATE LOCATION OF HAUL ROUTES ON THE AIRPORT SITE ARE SHOWN ON THE GENERAL PROJECT LAYOUT AND THE PHASING PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE OFF—SITE HAUL ROUTES (STATE HIGHWAYS, COUNTY ROADS OR CITY STREETS) WITH THE APROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE. ON—SITE ROADS USED AS HAUL ROUTES SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE. THE BEFORE AND AFTER CONDITION OF ON—SITE HAUL ROUTES SHALL BE JOINTLY INSPECTED AND DETERMINED BY THE CONTRACTOR AND THE ENGINEER, FENCING, DRAINAGE, GRADING AND OTHER MISCELLANEOUS CONSTRUCTION REQUIRED TO CONSTRUCT TEMPORARY HAUL ROUTES OR ACCESS POINTS ON THE AIRPORT WILL BE THE CONTRACTOR'S TOTAL RESPONSIBILITY AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE WORK. ALL ON—SITE ACCESS ROADS TO AIRPORT FACILITIES SHALL REMAIN OPEN AND MAINTAINED AT ALL TIMES.
- 21. MOBILIZATION/EQUIPMENT STORAGE AREA WILL BE MADE AVAILABLE FOR CONTRACTOR'S MOBILIZATION AND STORAGE AS SHOWN ON THE PLANS. THIS AREA SHALL BE RESTORED TO THE ORIGINAL CONDITION UPON COMPLETION OF THE PROJECT AT THE CONTRACTOR'S EXPENSE.

- 22. LOCATION OF KNOWN EXISTING AIRPORT UNDERGROUND CABLES ARE SHOWN ON THE PLANS AND MUST BE VERIFIED BY THE CONTRACTOR. REPAIR OF DAMAGED CABLE MUST BE STARTED IMMEDIATELY AND CONTINUED UNTIL COMPLETED. ALL SUCH REPAIRS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, OR AS DIRECTED BY THE OWNER OF THE CABLE OR FACILITY, AND SHALL BE AT THE CONTRACTOR'S EXPENSE. IF FAA CABLES ARE DAMAGED, REPAIRS SHALL BE DONE FROM PREVIOUS EXISTING TERMINATION POINT IN ACCORDANCE WITH FAA REQUIREMENTS AND IN THE PRESENCE OF A FAA REPRESENTATIVE. THE OWNER MAY ELECT TO HAVE THE REPAIR PERFORMED BY OTHERS IN WHICH CASE THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING THE INCURRED COSTS OF REPAIRS.
- 23. COORDINATION MEETINGS THE CONTRACTOR SHALL CONDUCT WEEKLY COORDINATION MEETINGS TO DISCUSS WORK AREAS AND SCHEDULING, ETC. WITH THE ENGINEER, AIRPORT OPERATIONS, FAA, AND OTHER APPROPRIATE OFFICIALS. MINUTES FROM THE WEEKLY MEETINGS SHALL BE PREPARED BY THE CONTRACTOR, FURNISHED TO ALL ATTENDEES PRIOR TO THE SUBSEQUENT MEETING, AND KEPT ON FILE AT THE FIELD OFFICE. THE COORDINATION MEETING COSTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT
- 24. THE CONTRACTOR SHALL PROVIDE THE PHONE NUMBERS OF THREE PERSONNEL, INCLUDING THE PROJECT SUPERINTENDENT, WHO MAY BE CONTACTED IN AN EMERGENCY, PERSONNEL SHALL BE ON CALL 24 HOURS PER DAY FOR MAINTAINING AIRPORT HAZARD LIGHTING AND BARRICADES.
- 25. DRAINAGE MODIFICATIONS SHALL BE SEQUENCED TO PROVIDE POSITIVE DRAINAGE AT ALL TIMES AT NO ADDITIONAL COST TO THE CONTRACT.
- 26. VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED WITHIN THE TAXIWAY OBJECT FREE AREA AND RUNWAY SAFETY AREA OF ACTIVE TAXIWAYS AND RUNWAYS.
- 27. CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS IN SUCH A MANNER AS NOT TO VIOLATE FEDERAL AVIATION ADMINISTRATION PART 77 IMAGINARY SURFACES OR RUNWAY AND TAXIWAY SAFETY AREAS.
- 28. ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER ELECTRICAL CABLES SHALL REMAIN IN SERVICE AT ALL TIMES. ALL EXISTING LIGHTING AND VAULT EQUIPMENT SHALL REMAIN IN SERVICE UNTIL PROPOSED IMPROVEMENTS ARE INSTALLED AND OPERATIONAL, UNLESS OTHERWISE APPROVED BY THE ENGINEER. ANY CABLES DAMAGED BY THE CONTRACTOR SHALL BE IMMEDIATELY REPAIRED AT HIS EXPENSE. ANY NECESSARY TEMPORARY JUMPER CABLES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 29. COORDINATION BY THE CONTRACTOR WITH THE EXISTING UTILITIES SHALL BE COMPLETED BEFORE CONSTRUCTION IS STARTED. CONTRACTOR IS REFERRED TO SECTION 50–17 OF THE SPECIAL PROVISIONS FOR SPECIFIC REQUIREMENTS. THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER OF THE DESIGN ENGINEER ASSUME ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, COMPLETENESS OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED THAT THE LOCATIONS, SIZE AND TYPE MATERIAL OF EXISTING UNDERGROUND UTILITIES AS INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED DURING 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 RESIDENT ENGINEER AND THE AIRPORT MANAGER. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S PREATIONS FALL BE RESORDED IMMEDIATELY AT HIS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT MANAGER.
- 30. ALL AIRFIELD LIGHTING AND LIGHTING GUIDANCE SYSTEMS (NAVAIDS) LOCATED WITHIN AND IMMEDIATELY ADJACENT TO THE CONTRACTORS WORK ZONE SHALL BE CHECKED FOR OPERATIONAL CONDITION PRIOR TO THE DEPARTURE FROM THE AIRPORT WITH THE AIRPORT MANAGER. ANY DEFECIENCIES IN THESE SYSTEMS DUE TO THE ACTS OF CONTRACTOR OR HIS SUBCONTRACTORS, SUPPLIERS OR CONSULTANTS SHALL BE REPAIRED IMMEDIATELY.

CONTRACTOR CROSSING RUNWAY SAFETY AREAS (RSA) AND TAXIWAY OBJECT FREE AREAS (TOFA)

- 32. ANYTIME THE CONTRACTOR IS REQUIRED TO UTILIZE OR CROSS ACTIVE AIRFIELD PAVEMENTS FOR ACCESS TO AND FROM THE WORK ZONE, A FULL TIME CROSSING GUARD IN RADIO CONTACT WITH THE CONTROL TOWER SHALL BE FURNISHED BY THE CONTRACTOR FOR MOVEMENTS OF VEHICLES OR EQUIPMENT TO AND FROM THE WORK ZONE. THE RADIO OPERATOR SHALL BE FAMILIAR WITH AIRPORT GROUND CONTROL PROCEDURES AND DEMONSTRATE KNOWLEDGE OF SAME TO THE AIRPORT. THE AIRPORT RESERVES THE RIGHT TO APPROVE THE CROSSING GUARDS. THE CONTRACTOR SHALL BE ROWN FABIOS. THIS COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF MUNICIPAL FINES (\$500 PER OCCURENCE) DUE TO AIRFIELD INCURSIONS BY HIS EMPLOYEES, SUBCONTRACTORS, SUPPLIERS, CONSULTANTS AND/OR AGENTS.
- 33. ANY PAYEMENT DAMAGED BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY HIM TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT MANAGER AT NO ADDITIONAL COST TO THE OWNER. PAYEMENT SHALL BE CONTINUALLY SWEPT TO PROVIDE DEBRIS FREE SURFACE DURING ALL HAUL ROAD OPERATIONS. THIS COST SHALL NOT BE PAID SEPERATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

LIMITATIONS ON CONSTRUCTION WITHIN RUNWAY SAFETY AREAS (RSA) AND TAXIWAY OBJECT FREE AREAS (TOFA)

RUNWAYS

54. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT MANAGER TEN (10) WORKING DAYS IN ADVANCE OF ANY PLANNED CONSTRUCTION WITHIN THESE LIMITS. ANY WORK WITHIN THE RUNWAY SAFETY AREA WILL REQUIRE A RUNWAY CLOSURE. WORK SHALL BE EXPEDITED IN THESE AREAS AND AT THE END OF EACH WORKING PERIOD THESE AREAS SHALL BE SMOOTHLY GRADED TO ALLOW THE RUNWAY TO BE REOPENED PER FAA REQUIREMENTS. AT LEAST ONE OF THE RUNWAY SHALL REMAIN IN OPERATION AT ALL TIMES. IF NECESSARY, STEEL PLATES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR TO COVER ANY OPEN TRENCHES OR EXCAVATION WITHIN THE RSA AT NO ADDITIONAL COST TO THE CONTRACT. NO MATERIAL SHALL BE STOCKPILED WITHIN THE RSA. IF DURING RUNWAY CLOSURE AN EMERGENCY IS DECLARED, THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE RUNWAY OF ALL VEHICLES, MEN, EQUIPMENT AND BARRICADES.

TAXIWAYS:

5. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT MANAGER FIVE (5) WORKING DAYS IN ADVANCE FOR WORK WITHIN THE TAXIWAY OBJECT FREE AREA. ANY WORK WITHIN THE TAXIWAY OBJECT FREE AREA WILL REQUIRE A TAXIWAY CLOSURE. CONSTRUCTION MAY BE ALUMED UP TO THE EDGE OF THE TAXIWAY PAVEMENTS WITHOUT CLOSURE ON A LIMITED BASIS AS DETERMINED BY THE AIRPORT MANAGER AND THE CONTRACTOR WILL BE REQUIRED TO HAVE WING WALKERS AND FLAGGERS AT HIS OWN COST. WORK WITHIN THE TAXIWAY OBJECT FREE AREA SHALL BE EXPEDITED AND AT THE END OF EACH WORKING PERIOD THESE AREAS SHALL BE SMOOTHLY GRADED TO ALLOW THE TAXIWAY TO BE REOPENED PER FAA REQUIREMENTS. IF NECESSARY, STEEL PLATES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR TO COVER ANY OPEN TRENCHES OR EXCAVATION WITHIN THE TOFA AT NO ADDITIONAL COST TO THE CONTRACT. NO MATERIAL SHALL BE STOCKPILED WITHIN THE TOFA. SHOULD IT BE NECESSARY FOR THE CONTRACTOR TO TEMPORARILY RELOCATE EQUIPMENT TO ALLOW AIRCRAFT TO PASS, THEY SHALL DO SO AT NO EXTRA COST TO THE PROJECT.

DESIGN AIRCRAFT APPROACH CATEGORY: D DESIGN AIRPORT GROUP: III

MAXIMUM ANTICIPATED WINGSPAN OF ADG III
GULFSTREAM G500 — WINGSPAN = 93.5'
COMPUTED TAXILANE CENTERLINE TO OBJECT
SEPARATION (TOFA) = 66.1'

CONTRACTOR SHALL PLAN AND PERFORM HIS WORK SO AS NOT TO INTERFERE OR HINDER THE PROGRESS, WORK OR HAUL ROAD ACCESS OF OTHER CONTRACTORS (SEE SPECIAL PROVISIONS SECTION 30-05). THE PRIME CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE CONSTRUCTION ACTIVITIES AND ACCESS BETWEEN ALL ON-SITE CONTRACTORS SUBCONTRACTORS. IT IS ANTICIPATED THE FOLLOWING PROJECTS MAY BE UNDER CONSTRUCTION CONCURRENTLY WITH THIS PROJECT. NO ADDITIONAL COMPENSATION SHALL BE CONSIDERED FOR ANY EFFORTS TO CORDINATE AND ACCESS THE TAXIWAY SITE DUE TO ADJACENT BUILDING CONSTRUCTION

- REHABILITATION OF 34 HOLD PAD IN SE QUADRANT.
- CONSTRUCTION OF BYPASS TAXIWAY IN NW QUADRANT
 HAWTHORNE/SOVEREIGN DEVELOPMENT IN SE QUADRANT
 REHABILITATION OF EAST QUADRANT APRON IN EAST
 QUADRANT
- RELOCATE AIRPORT BEACON IN NE QUADRANT
 EAST QUADRANT HANGAR AND APRON DEVELOPMENT

POINT

IN EAST QUADRANT

ELEVATION O

GROUND CONTROL FREQUENCY: 121.7 MHz

MAXIMUM ANTICIPATED HEIGHT OF CONSTRUCTION EQUIPMENT: DUMP TRUCK IN DUMP POSITION - 25'

IN THE EVENT THE CONTRACTOR PROPOSES TO UTILIZE CONSTRUCTION EQUIPMENT THAT IS TALLER THAN WHAT IS LISTED, THE CONTRACTOR WILL BE RESPONSIBLE TO SUBMIT FAA FORM 7460 FOR AIRSPACE APPROVAL. THE RESIDENT ENGINEER WILL PROVIDE BASE AIRPORT INFORMATION FOR THE CONTRACTOR'S USE.

(NAD 83)

(NAD 83)

IL. CONTRACT: PA056

IL. LETTING ITEM: 16A

IL. PROJECT: PWK-4182

SURVEY BOOK # BOOK #

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		REVISIONS	1
J	NUMBER	BY	DATE

S.B.G. PROJECT: **3-17-0018-B48**

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

AT FULL SCALE (34X22).

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CHICAGO EXECUTIVE AIRPORT IEELING/PROSPECT HEIGHTS, ILLINOIS F EMAS - RUNWAY 34 END (16 DEPARTURE F

& TILLY, INC. CONSTR

M

CWT RAWFORD, MURPHY & TILLY, NSULTING ENGINEERS cense No. 184-000613

CRAWFORD, MU CRAWFORD, MU CONSULTING EN License No. 18

DESIGN BY:	JRL
DRAWN BY:	JRO
CHECKED BY:	DLP
APPROVED BY:	BW
DATE: 04/19/	2013
JOB No: 11290-	-03

SHEET 5 OF 24 SHEETS

GROUND AND HEIGH FOUIPMENT (1929 DATUM) 1929 DATUM C1 645 PAINT TRUCK - 20' 665 42*06'40.46" 87.54'02.26" C2 PAINT TRUCK - 20' 662 42.06,39 33" 87*53'58 33" 642 СЗ 670 42'06'37.89 87.54'01.23' 645 SEMI/DUMP TRUCK - 25 C4 SEMI/DUMP TRUCK - 25' 668 42.06'38.32" 87.53'59.78' В1 87*53'56.91" PICK UP TRUCK - 10' 652 42'06'40.52" B2 PICK UP TRUCK - 10' 649 42*06'38.35 87*53'49.13 639 S1 42.06,34.67 87'53'48.50" 639 SEMI/DUMP TRUCK - 25' 664 S2 SEMI/DUMP TRUCK - 25 87*53'46.31" 639 664 42'06'37.00 X1 PICK UP TRUCK - 10' 649 42'06'39.13' 87.53,46.77 X2 PICK UP TRUCK - 10' 652 42'06'43.83" 87*53'58.65" 642

TABLE 1 - CRITICAL POINTS

PPROXIMAT

ELEVATION O

ANTICIPATED

EQUIPMENT

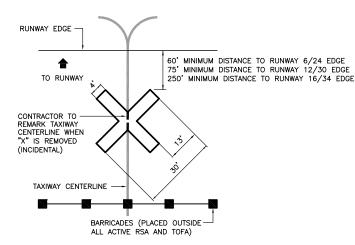
NOTES - ALL PHASES

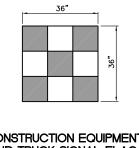
- ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER AIRPORT ELECTRICAL CABLES SHALL REMAIN IN SERVICE UNTIL REPLACED AS ACCEPTABLE TO THE RESIDENT ENGINEER. ALL TEMPORARY CABLING AND SPLICING NECESSARY TO KEEP THE CIRCUITS IN OPERATION SHALL BE CONSIDERED INCIDENTAL TO CONTRACT.
- 2. ALL TEMPORARY FENCING SHALL BE 6' CHAIN LINK FENCING AS APPROVED BY THE AIRPORT AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, UNLESS SPECIFICALLY OUT ON THE PLANS.

				ANTICIPATED A	ACCELERATED CON	ISTRUCTION SCHEI	DULE		
			PHAS	SE 1 - SITEWORK - WEEK	ENDS		PHASI	E 2 - EMAS - WEEKNI	GHTS
		Weekend 1	Weekend 2	Weekend 3	Weekend 4	Weekend 5	Nights	Nights	Nights
		10PM Fri -6AM Mon	10PM Fri -6AM Mon	10PM Fri -6AM Mon	10PM Fri -6AM Mon	10PM Fri -6AM Mon	10PM-6AM	10PM-6AM	10PM-6AM
ITEM	DESCRIPTION	5 WORK PERIODS	5 WORK PERIODS	5 WORK PERIODS	5 WORK PERIODS	5 WORK PERIODS	7 WORK PERIODS	7 WORK PERIODS	2 WORK PERIODS
	R TO CLOSING RUNWAY	WORK PERIODS	WORK PERIODS	WORK PERIODS	WORK PERIODS	WORK PERIODS	WORK PERIODS	WORK PERIODS	WORK PERIODS
-	Coordinate temporary Runway 16/34 closure with Engineer and Airport.								
-	Coordinate FAA NAVaids shutdown with FAA.								
	Disconnect appropriate electrical circuits in airfield vault.								
-	Place temporary runway closure markers at ends of Runway 16 and 34.								
-	Place barricades and cones as shown or as directed by the Airport.								
ALL PHASES - PRIOR	R TO OPENING RUNWAY								
-	Patch/fill all trenches and grade in conformance with plans in runway safety area.								
-	Turn on and check all appropriate electrical circuits in airfield vault.								
-	Sweep Runway, perform safety inspection with Airport and coordinate runway opening.								
PHASE 1 - SITEWORK									
AR108XXX	CABLE								
AR110XXX	DUCT								
AR110 / 125 / 800 / 9	010 ELEC. ITEMS, ADJUSTMENTS, MARKERS & SIGNS								
AR152410	UNCLASSIFIED EXCAVATION								
AR156XXX	EROSION CONTROL & SWPPP								
AR208515	POROUS GRANULAR EMBANKMENT								
AR209XXX	CRUSHED AGG. BASE COURSE								
AR401610	BITUMINOUS SURFACE COURSE								
AR401XXX	BIT. PAVEMENT MILLING & REMOVAL								
AR403610	BITUMINOUS BASE COURSE								
AR6205XX	PAVEMENT MARKING								
AR705506	6" PERFORATED UNDERDRAIN								
AR800207	EMAS CONCRETE GRADE BEAM								
AR901 & AR908	SEEDING & MULCHING								
PHASE 2 - EMAS INS									
AR800208 & AR8002									
AR800206	ELEVATED RETROREFLECTIVE MARKER - TYPE 2								
END OF PROJECT									
-	Coordinate turning on FAA NAVaids with FAA.								
-	Coordinate FAA Flight Check with Engineer, Airport and FAA.								

NOTES 1) ASSUMPTIONS: 1 WORK PERIOD = 8 HOURS OF WORK

- 1 WEEKEND 10PM FRI 6AM MON = 56 HOURS. ANTICIPATE PUTTING IN 40 HOURS PER WEEKEND = 5 WORK PERIODS, REMAINING TIME IS BUFFER FOR OPENING, EMERGENCIES AND WEATHER
- 2) AS APPROVED BY THE AIRPORT, ADDITIONAL WEEK NIGHT CLOSURES AND/OR WEEKEND CLOSURES MAY BE REQUIRED TO COMPLETE THE PROJECT IF CLOSURES ARE CANCELED DUE TO ANTICIPATED ADVERSE WEATHER CONDITIONS.
- 3) PHASE 1 SITEWORK SHALL NOT BE INITIATED UNTIL A FIRM SHIPPING DATE IS ESTABLISHED BETWEEN THE CONTRACTOR AND THE EMAS MNUFACTURER.





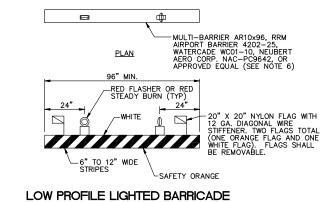
CONSTRUCTION EQUIPMENT AND TRUCK SIGNAL FLAG

NOT TO SCALE

CLOSED TAXIWAY MARKER DETAIL

CLOSED TAXIWAY MARKER DETAIL NOTES

- CLOSED TAXIWAY MARKERS SHALL BE PAINTED YELLOW WITH TEMPORARY MARKING CAPABLE OF BEING REMOVED WITH LOW PRESSURE WATER BLASTING OR OTHER MATERIAL THAT DOES NOT VIOLATE THE OBJECT FREE AREA CRITERIA AND RUNWAY SAFETY AREA CRITERIA PER ADVISORY CIRCULAR 150/5300-13A (LATEST EDITION) AND ARE APPROVED BY THE AIRPORT.
- 2. CONTRACTOR SHALL MAINTAIN AND RELOCATE MARKERS AS SHOWN ON THE PLANS OR AS NEEDED TO FACILITATE CONSTRUCTION
- 3. COST OF FURNISHING, INSTALLING, MAINTAINING AND REMOVING MARKERS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 4. PLACE MARKERS OVER TAXIWAY CENTERLINE.
- 5. MARKERS SHALL BE ADEQUATELY SECURED TO PREVENT MOVEMENT BY PROPELLER WASH, JET BLAST OR OTHER WIND CURRENTS.



BARRICADE NOTES:

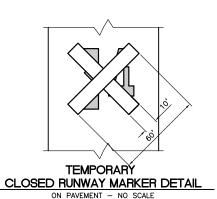
1. FLASHER OR STEADY BURN LIGHTS SHALL BE BATTERY OR SOLAR POWER OPERATED. LENS SHALL BE RED AND BE ABLE TO ROTATE 90°.

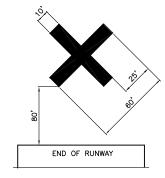
NOT TO SCALE

- 2. FACING OF BARRICADE SHALL BE COVERED WITH REFLECTIVE TAPE OR PAINT.
- 3. BARRICADES TO BE PLACED WITH A MAXIMUM OF 10' SPACING CENTER TO CENTER BETWEEN RED LIGHTS ALONG OPERATIONAL PAVEMENT ADJACENT TO CONSTRUCTION AS DIRECTED BY THE RESIDENT ENGINEER. ALTERNATE FLASHER OR STEADY BURN LENSES SO THAT EVERY OTHER LENS IS ROTATED 90°.
- 4. FLASHER OR STEADY BURN LIGHTS SHALL BE SECURED TO THE BARRICADES, AS APPROVED BY THE RESIDENT ENGINEER.
- BARRICADES SHALL BE OF LOW MASS, EASILY COLLAPSIBLE UPON CONTACT WITH AN AIRCRAFT OR ANY OF ITS COMPONENTS, AND WEIGHTED TO AVOID BEING BLOWN OVER.
- 6. BARRICADES SHALL BE OF A COMMERCIAL DESIGN.

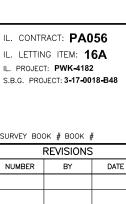
CLOSED RUNWAY MARKER NOTES

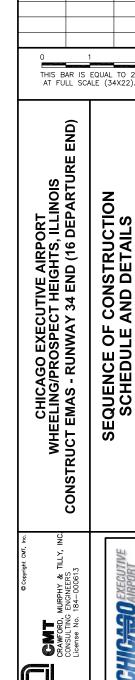
- 1. TEMPORARY CLOSED RUNWAY MARKERS SHALL BE YELLOW.
- 2. TEMPORARY MARKERS SHALL BE MATERIAL APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL MAINTAIN AND RELOCATE MARKERS AS SHOWN ON THE PLANS OR AS NEEDED TO FACILITATE CONSTRUCTION
- 4. MARKERS ON PAVEMENT SHALL BE PLACED OVER EXISTING RUNWAY NUMERALS AS SHOWN.
- COST OF FURNISHING, INSTALLING, MAINTAINING AND REMOVING MARKERS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- DURING VARIOUS PHASES OF WORK, IT WILL BE NECESSARY TO CLOSE RUNWAYS TO AIR TRAFFIC ON A TEMPORARY BASIS AS COORDINATED WITH THE AIRPORT AND TOWER PERSONNEL. THE CONTRACTOR SHALL MARK THE RUNWAYS TO BE CLOSED BY PLACING A YELLOW CROSS AT THE LOCATION AND DIMENSIONS DETAILED ON THIS SHEET. THE CROSSES ARE SHOWN ON THE RESPECTIVE RUNWAYS ACCORDING TO THE VARIOUS PHASES OF WORK AS DELINEATED IN THE SUGGESTED SEQUENCE OF CONSTRUCTION.





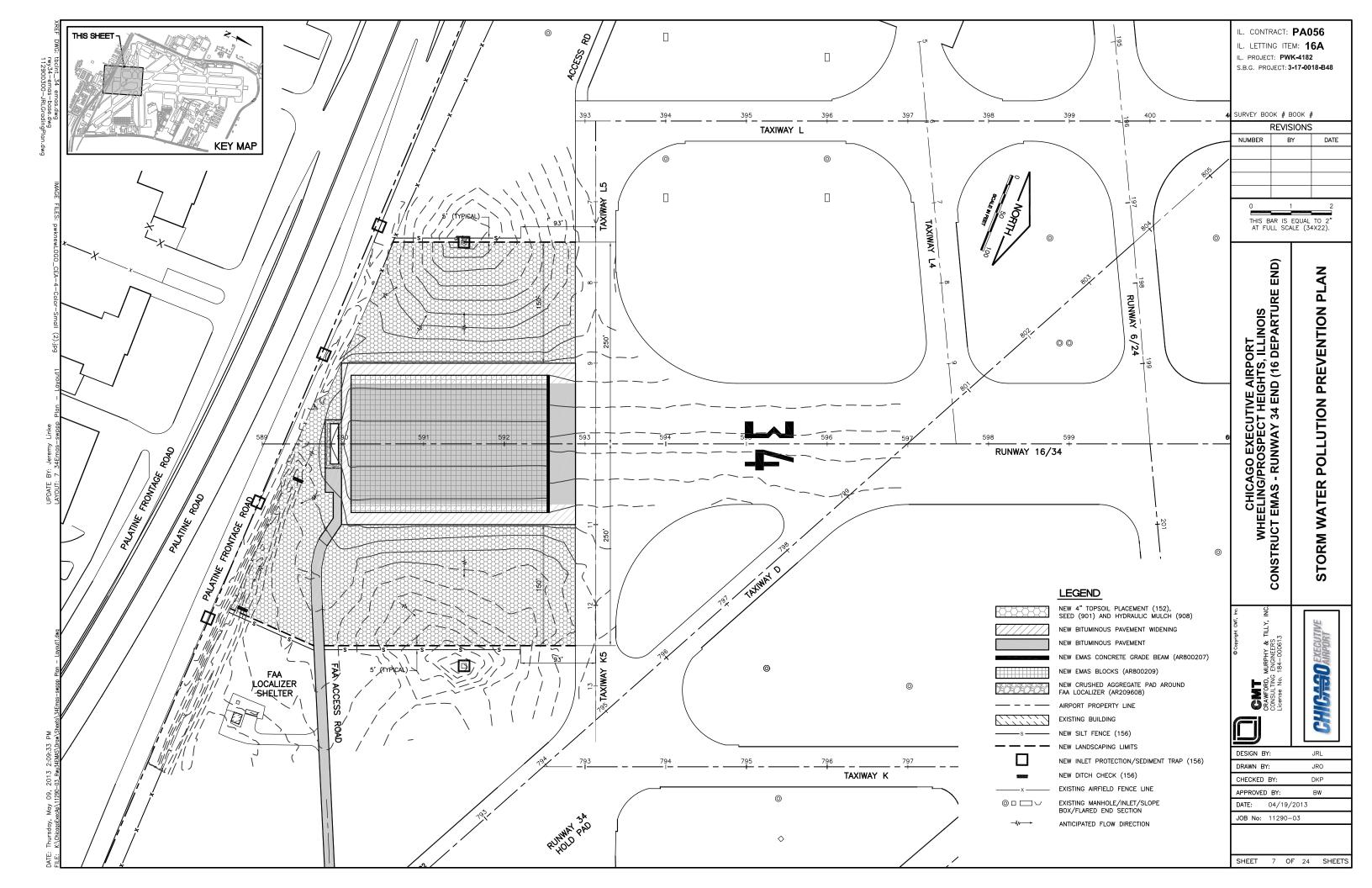
OFF PAVEMENT TEMPORARY **CLOSED RUNWAY MARKER DETAIL**





DESIGN BY DRAWN BY CHECKED BY APPROVED BY 04/19/2013 JOB No: 11290-03

SHEET 6 OF 24 SHEETS



THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIMEFRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER, THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING, WHICH WILL BE AT THE CONTRACTOR'S COST. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE FNGINEER AND AS SHOWN ON THE PLANS

SITE DESCRIPTION:

THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY WHICH IS THE SUBJECT OF THIS PLAN:

THIS PROJECT CONSISTS OF CONSTRUCTING BITHININGHS PAVEMENT WIDENING AND INSTALLING AN EMAS SYSTEM AT THE CHICAGO EXECUTIVE AIRPORT. THE PROJECT INCLUDES EARTH EXCAVATION, EMBANKMENT, UNDER DRAINS VARIOUS PAVEMENT ITEMS, ELECTRICAL WORK, EMAS INSTALLATION AND OTHER MISCELLANEOUS CONSTRUCTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE, SUCH AS GRUBBING, EXCAVATION AND GRADING:

PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEAN-UP OF TEMPORARY EROSION CONTROL. SUCH AS PERIMETER SILT FENCE, TEMPORARY DITCH CHECKS AND INLET PROTECTION.

REMOVAL, ADJUSTMENTS AND INSTALLATION OF ELECTRICAL AND MISCELLANEOUS ITEMS.

EXCAVATION. STABILIZATION AND AGGREGATE BASE INSTALLATION FOR BITUMINOUS PAVEMENT WIDENING.

INSTALLATION OF UNDERDRAIN

CONSTRUCTION OF CONCRETE EMAS BEAM.

VARIABLE DEPTH PAVEMENT MILLING.

CONSTRUCTION OF NEW BITUMINOUS PAVEMENTS AND OVERLAYS.

RSA GRADING, SEEDING AND MULCHING

INSTALLATION OF NEW PAVEMENT MARKING AND RETROREFLECTIVE MARKERS.

PLACEMENT OF PERMANENT EROSION CONTROL, SUCH AS SEEDING, MULCHING AND EROSION CONTROL BLANKET, REMOVAL AND DISPOSAL OF TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES.

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THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 4.1 ACRES OF WHICH 2.8 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING AND OTHER ACTIVITIES.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION

1.INFORMATION OF THE SOILS AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM TOPOGRAPHIC SURVEYS AND SOIL BORINGS THAT WERE UTILIZED FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION

2.PROJECT PLAN DOCUMENTS, SPECIFICATION AND SPECIAL PROVISIONS, AND PLAN DRAWINGS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

THE CONSTRUCTION SITE DRAINS INTO THE DES PLAINES RIVER THROUGH A STORM SEWER SYSTEM

EROSION AND SEDIMENT CONTROL:

DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

THE DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, EROSION CONTROL BLANKET. SOD, EROSION CONTROL BLOCK, PROTECTION OF TREES, PRESERVATION OF NATURAL VEGETATION, AND ALL OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED

AREAS OF EXISTING VEGETATION (WOOD AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS IDENTIFIED BY THE ENGINEER FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION

DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE

AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, TEMPORARY DITCH CHECKS, INLET PROTECTION AND PERIMETER SILT FENCE SHALL BE INSTALLED AS CALLED OUT IN THE PLAN AND DIRECTED BY THE ENGINEER.

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10. ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESCRIBED ON THE PLANS AND DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.

WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT

EARTH STOCKPILES SHALL BE <u>TEMPORARILY SEEDED</u>, AT THE <u>CONTRACTORS EXPENSE</u>, IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS.

THE DOWN STREAM SIDE OF ALL STOCKPILES SHALL BE ENCOMPASSED WITH EROSION CONTROL BARRIER.

AS CONSTRUCTION PROCEEDS. THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE

A.PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.

B.CONSTRUCT DITCHES AND PROVIDE TEMPORARY EROSION CONTROL SYSTEMS.

C.BUILD NECESSARY EMBANKMENT AT CULVERT/STORM SEWER LOCATIONS AND THEN EXCAVATE AND

DEXCAVATED AREAS AND EMBANKMENT AREAS SHALL BE PERMANENTLY SEEDED OR SODDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED, AT THE CONTRACTOR'S COST, IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR SEVEN DAYS.

CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS WITHIN THE STAGING AREA. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.

THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT PERIODICALLY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1/2 OR GREATER OR EQUIVALENT SNOWFALL AND DURING WINTER SHUTDOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE RESIDENT ENGINEER ON A BI-WEEKLY BASIS TO DETERMINE THAT THE EROSION AND SEDIMENT CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY

SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR UNCLASSIFIED EXCAVATION AND EROSION

THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR VARIOUS TEMPORARY EROSION CONTROL PAY ITEMS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING SOIL CONTAMINATION FROM BUILDING MATERIALS, FERTILIZERS, CHEMICALS, PAVEMENT MARKING, WASTE PILES, FUEL CONTAINMENT, AND ANY OTHER POTENTIAL HAZARDOUS MATERIALS THAT MAY EXIST ONSITE.

NO DEDICATED CONCRETE OR ASPHALT BATCH PLANTS SHALL BE LOCATED ON THIS SITE.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING:

TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS ARE

COST OF MAINTAINING THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE VARIOUS TEMPORARY EROSION CONTROL PAY ITEMS.

ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP, AND DISTURBED TURF RE—SEED AND/OR SODDED.

MAINTENANCE AFTER CONSTRUCTION:

CONSTRUCTION IS COMPLETE AFTER FINAL ACCEPTANCE BY THE ILLINOIS DIVISION OF AFRONAUTICS. MAINTENANCE OF TEMPORARY AND PERMANENT EROSION CONTROL SYSTEMS UP TO THIS DATE WILL BE REQUIRED BY THE CONTRACTOR.

PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL COMPLETE AND SUBMIT A "NOTICE OF INTENT (NOI)" PROPERLY SIGNED TO THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL POST A SIGN OR OTHER NOTICE NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE. IF THIS IS NOT POSSIBLE, THEN IT MAY BE PERMITTED TO POST THIS NOTICE IN A LOCAL PUBLIC BUILDING. THE SIGN OR NOTICE MUST CONTAIN THE FOLLOWING:

1. A COPY OF THE COMPLETED NOTICE OF INTENT (NOI) AS SUBMITTED TO THE IEPA

2. THE LOCATION OF THE SWPPP AND NAME AND 24/7 TELEPHONE NUMBER OF THE CONTACT PERSON

THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN AND UPDATE AN "AS-BUILT" SET OF STORM WATER POLLUTION PREVENTION PLANS IN THE PROJECT FILES. THE SWPPP SHALL BE UPDATED WITHIN 7-DAYS OF ANY MODIFICATIONS TO THE PLANS. THE SWPPP AND ALL REVISIONS SHALL BE RETAINED FOR THREE YEARS AFTER FINAL STABILIZATION OF THE SITE, WHICH SHALL BE DEFINED AS VEGETATION COVER OF AT LEAST 70% OF

A STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL INSPECTION REPORT (FORM BC 2259) SHALL BE BE COMPLETED WITH INSPECTION FREQUENCIES AS OUTLINED HEREIN. SWPPP REPORTS SHALL BE RETAINED FOR THREE YEARS AFTER THE DATE OF FINAL STABILIZATION AS DEFINED HEREIN.

IF ANY VIOLATION OF THE PROVISIONS OF THE PLAN IS IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION COVERED IN THIS PLAN, THE ENGINEER AND/OR CONTRACTOR SHALL COMPLETE AND FILE AN "INCIDENT OF NONCOMPLIANCE (ION)" REPORT FOR THE IDENTIFIED VIOLATION. THE FORMS SHALL BE AS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, AND SHALL INCLUDE SPECIFIC INFORMATION ON THE INCIDENT THAT CAUSED NONCOMPLIANCE ACTIONS THAT WERE TAKEN TO CORRECT THE NONCOMPLIANCE AND TO PREVENT ITS REOCCURENCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM THE NONCOMPLIANCE. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY IN ACCORDANCE WITH PART VI. G. OF THE GENERAL PERMIT

AFTER PROJECT FINAL ACCEPTANCE, THE CONTRACTOR SHALL COMPLETE AND SUBMIT A "NOTICE OF TERMINATION (NOT)" FORM PROPERLY SIGNED TO THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY. FORMS FOR THE IEPA SHALL BE MAILED TO THE FOLLOWING ADDRESS" ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

DIVISION OF WATER POLLUTION CONTROL, MAIL CODE #15 ATTN: PERMIT SECTION 1021 NORTH GRAND AVENUE EAST SPRINGFIELD, ILLINOIS 62794-9276

NPDES PERMIT #	
DATE ISSUED	
DATE EXPIRED	

GENERAL NOTES FOR SOIL EROSION AND SEDIMENT CONTROL:

- 1. ALL TREE PROTECTION, SEDIMENT CONTROL MEASURES, AND PERMANENT AND TEMPORARY STORM WATER PRACTICES SHALL BE IN PLACE PRIOR TO STARTING CONSTRUCTION.
- 2. NO WORK SHALL BE PERFORMED IN FLOWING WATER WORK IN AND NEAR FLOWING WATER SHALL BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOWS AT ALL TIMES. THE USE OF EARTHEN MATERIAL FOR ISOLATION WILL NOT BE ACCEPTABLE.
- 3. CONSTRUCTION MATERIALS AND/OR OTHER STOCKPILES SHALL NOT BE LOCATED ON STREAM BANKS NOR IN THE PATH OF STREAM FLOW.
- 4. TEMPORARY EROSION CONTROL DEVICES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS OR AS
- 5. PERMANENT SEEDING SHALL BE USED WHENEVER POSSIBLE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG GRADING OR SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED
- 6. THE CONTRACTOR SHALL INSPECT ADJACENT STREETS DAILY AND CLEAN ADJACENT STREETS WHEN NECESSARY. ADJACENT STREETS SHALL BE KEPT FREE OF SOIL AND DEBR
- 7. SHOULD IT BE NECESSARY TO REMOVE ANY EROSION CONTROL DEVICES FOR CONSTRUCTION REASONS. THE CONTRACTOR SHALL FIRST OBTAIN PERMISSION AND SHALL REPLACE AND/OR REPAIR THE REMOVED DEVICES THE SAME DAY. THE COST OF REMOVING AND REPLACING THE DEVICE SHALL BE CONSIDERED INCIDENTAL TO
- 8. ALL OTHER SOIL EROSION AND SEDIMENT CONTROL DEVICES AND MEASURES DEEMED NECESSARY BY THE RESIDENT ENGINEER, COOK COUNTY, CHICAGO EXECUTIVE AIRPORT, IDOT DIVISION OF AERONAUTICS, AND THE IEPA SHALL BE IMPLEMENTED IMMEDIATELY UPON NOTIFICATION OF THE CONTRACTOR.
- 9. THE CONTRACTOR SHALL PROVIDE LOCATIONS FOR CONCRETE TRUCK WASHOUT, AS APPROVED BY ENGINEER, PRIOR TO ANY CONCRETE POURS. THESE LOCATIONS SHALL NOT BE NEAR ANY STREAM OR BODY OF WATER. LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO ANY CONCRETE POURS. ADDITIONALLY THE CONTRACTOR SHALL PROVIDE ADEQUATE FACILITIES TO WASTE OUT PAYING EQUIPMENT AND FINISHING TOOLS. ALL WASTE WATER AND EXCESS CONCRETE MATERIALS SHALL BE CONTAINED BY AN APPROVED CONCRETE WASHOUT FACILITY.
- 10. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES TO ENSURE THAT EROSION CONTROL MEASURES ARE CONSISTENT BETWEEN ALL PROJECT PHASES AND ALL SUB-CONTRACTORS.
- 11. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT WETLANDS TO REMAIN FROM DAMAGE BY SEDIMENT, CONSTRUCTION EQUIPMENT, OR BY HIS PERSONNEL. THE CONTRACTOR SHALL ASSURE THAT DEBRIS OR ANY CONSTRUCTION MATERIAL IS NOT DISPOSED OF IN THE WETLANDS.
- 12. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE
- 13. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE—HALF OF THE HEIGHT OF THE DEVICE OR AS RECOMMENDED BY THE MANUFACTURER, WHICHEVER IS LESS.
- 14. ALL EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES ARE OPERATIONAL.
- 15. THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER, ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.
- 16. PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN 7 DAYS FOR AREAS WHERE WORK IS COMPLETED.

CONTRACTOR CERTIFICATION STATEMENT

THIS CERTIFICATION STATEMENT IS A PART OF THE STORM WATER POLITITION PREVENTION PLAN FOR THE PROJECT DESCRIBED BELOW IN ACCORDANCE WITH NPDES PERMIT NO. ILR10 ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY.

SIGNATURE:

PROJECT INFORMATION:		
ROUTE: CHICAGO EXECUTIVE AIRPORT	MARKED: RUNWAY 34 END EMAS	
SECTION: 13	PROJECT NUMBER: PWK-4182	
COUNTY: COOK	CONTRACT NUMBER: 3-17-0018-B48 (PA054)	
I CEPTIFY LINDER PENALTY OF LAW THAT I I	LINDERSTAND THE TERMS AND CONDITIONS OF THE C	SENERAL

DATE:

POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (ILR10) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS

LE:_

THE INFORMATION WITHIN THIS BOX SHALL BE COMPLETED BY THE CONTRACTOR AFTER THE AWARD OF THE CONTRACT TO OBTAIN THE REQUIRED NPDES PERMIT FROM IEPA. COMPLETION OF THIS IS A CONTRACT

	RECORD OF SITE DISTURBANCE AND STABILIZATION
MAJOR GRADING ACTIVITIES: LOCATION:	BEGINNING DATE:COMPLETION DATE:
MAJOR GRADING ACTIVITIES: LOCATION:	BEGINNING DATE:COMPLETION DATE:
SITE STABILIZATION: LOCATION:	BEGINNING DATE:COMPLETION DATE:
SITE STABILIZATION: LOCATION:	BEGINNING DATE:COMPLETION DATE:
CONSTRUCTION CEASED: EXPLANATION:	BEGINNING DATE:COMPLETION DATE:

THE INFORMATION WITHIN THIS BOX SHALL BE COMPLETED BY THE CONTRACTOR AS CONSTRUCTION PROGRESSES IN ACCORDANCE WITH THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES. THIS INFORMATION MAY ALSO BE NOTED DIRECTLY ON THE SWPPP SITE MAP.

IL. CONTRACT: PA056

IL. LETTING ITEM: 16A

IL. PROJECT: PWK-4182 S.B.G. PROJECT: 3-17-0018-B48

SURVEY BOOK # BOOK #

	REVISIONS	
NUMBER	BY	DATE

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NRPORT HTS, ILLINOIS) (16 DEPARTURE I ō

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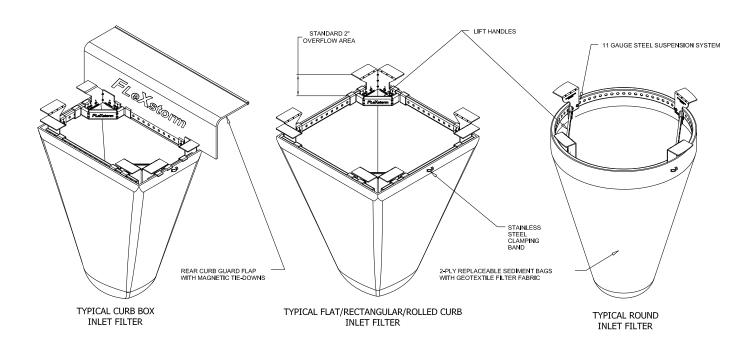
MURPHY & ENGINEERS

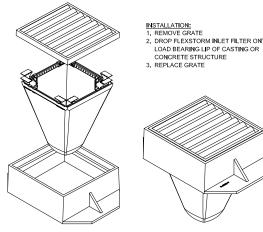
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DESIGN BY JRI DRAWN BY JRO CHECKED BY DKP APPROVED BY 04/19/2013 JOB No: 11290-03

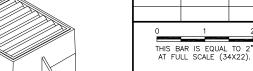
SHEET 8 OF 24 SHEETS

IPP FLe Xstorm Inlet Filter Specifications				
Material Property	Test Method	Value (min ave)		
> Inner Filter Bag Specs	(2 ft ³ min vol)	Non-Woven	Woven Mon	
Grab Tensile	ASTM D 4632	100 lbs	200 lbs	
Puncture Strength	ASTM D 4833	65 lbs	90 lbs	
Trapezoidal Tear	ASTM D 4533	45 lbs	75 lbs	
UV Resistance	ASTM D 4355	70% at 500 hrs	90%	
App Open Size (AOS)	ASTM D 4751	70 sieve (.212 mm)	40 sieve (.425 mm)	
Permittivity	ASTM D 4491	2.0 /sec	2.1/sec	
Water Flow Rate	ASTM D 4491	145 gpm/sqft	145 gpm/sq	
> Polyester Outer Reinfo	orcement Bag Spe	ecifications		
Weight	ASTM D 3776	4.55 oz/sq	/d +/- 15%	
Thickness	ASTM D 1777	.040 +/	·005	
> Frame Construction				
A36 Structural Steel; 11 Guage; Zinc Plated	ASTM A 576	Tensile Strength > 58,000 p		





- 2. DROP FLEXSTORM INLET FILTER ONTO



IL. CONTRACT: PA056 IL. LETTING ITEM: 16A

IL. PROJECT: PWK-4182 S.B.G. PROJECT: 3-17-0018-B48

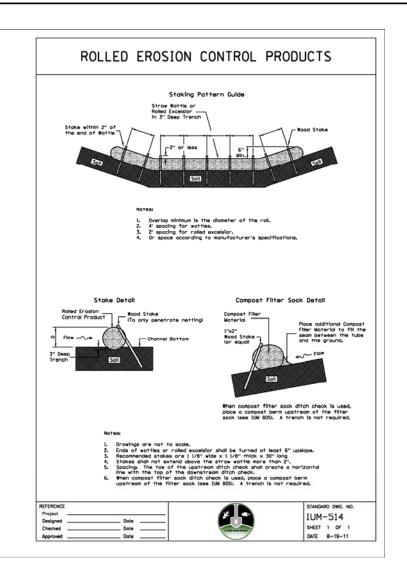
SURVEY BOOK # BOOK # REVISIONS

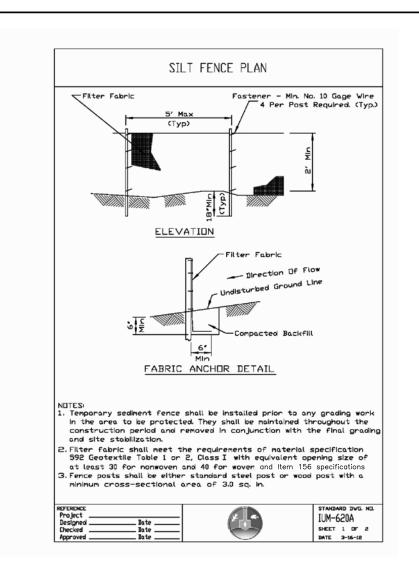
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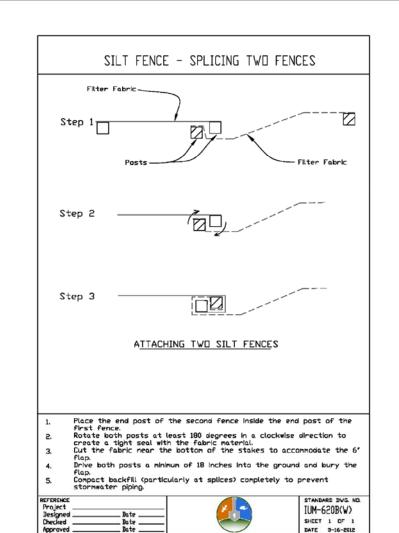
END)

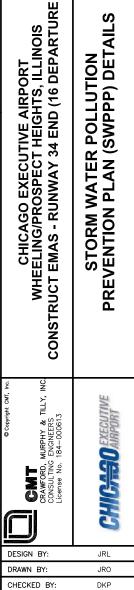
INLET PROTECTION / SEDIMENT TRAP

STORM SEWER INLET PROTECTION SHALL BE FLEXSTORM INLET FILTERS AS DETAILED HEREIN OR APPROVED EQUAL







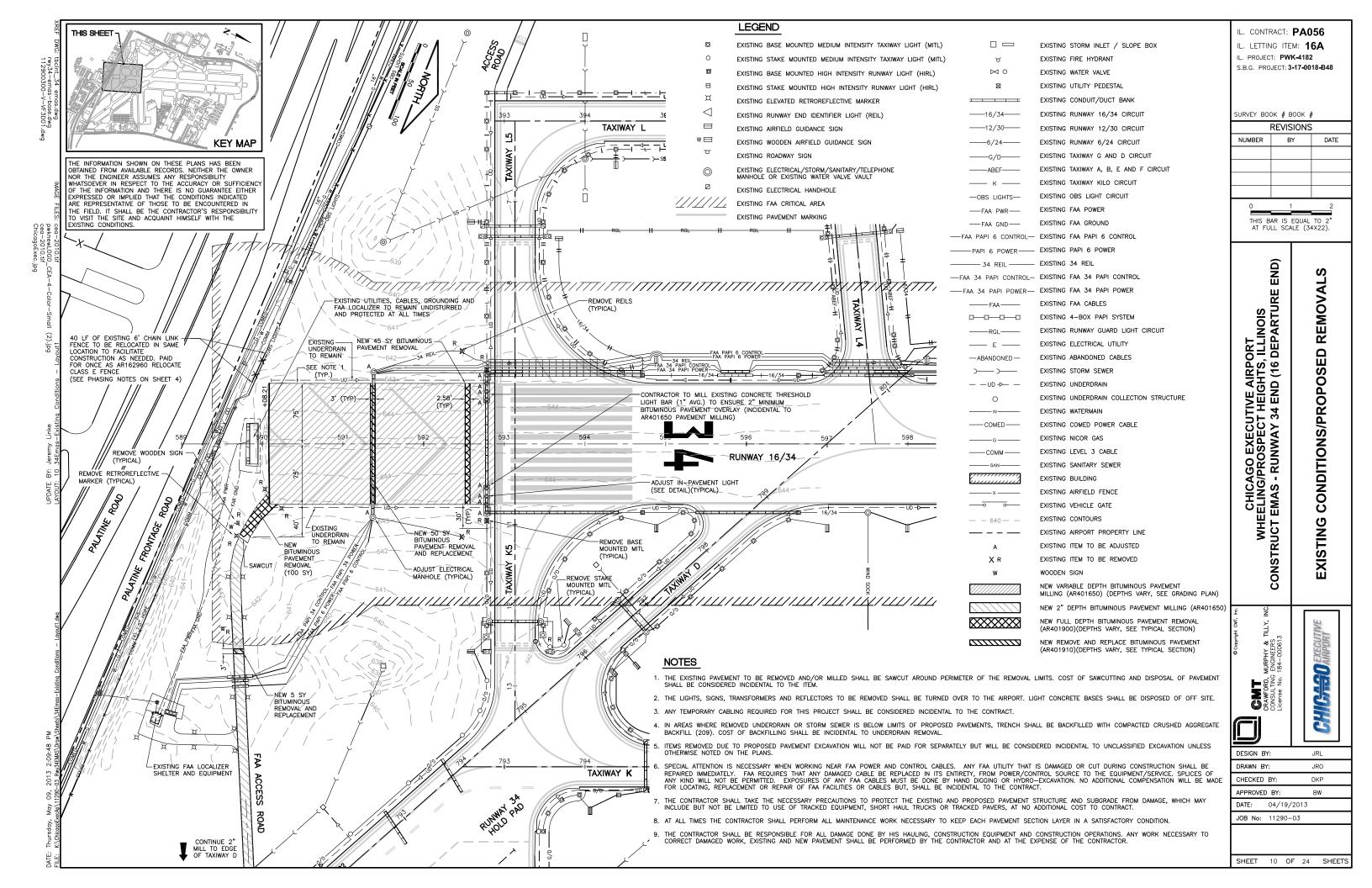


APPROVED BY:

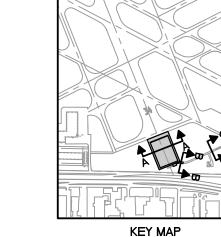
JOB No: 11290-03

04/19/2013

SHEET 9 OF 24 SHEETS







250' RUNWAY SAFETY AREA 250' RUNWAY SAFETY AREA VARIES 75' 75' 10' VARIES TO MATCH TO MATCH 1,25% (NEW) 1-1/2" (TYPICAL) (J)(P)(M) (E) VARIES TYPICAL SECTION A-A

EXTENDED RUNWAY 16/34 CENTERLINE

C VARIABLE DEPTH SEE PLAN AND PROFILE SHEETS

UNDERDRAIN DETAIL

EDGE OF PAVEMENT AREAS

NOT TO SCALE

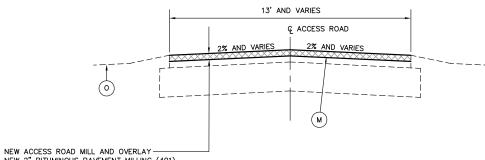
VARIES 13' Q ACCESS ROAD N P 2% AND VARIES 1 N P 1' G NEW ACCESS ROAD PAVEMENT 2" BITUMINOUS SURFACE COURSE (401)

RUNWAY 34 END EMAS PAVEMENT

NOT TO SCALE

TYPICAL SECTION B-B NEW FAA ACCESS ROAD PAVEMENT

NOT TO SCALE



NEW 2" BITUMINOUS PAVEMENT MILLING (401) NEW 2" BITUMINOUS SURFACE COURSE (401)

2" BITUMINOUS BASE COURSE (403) 8" CRUSHED AGGREGATE BASE COURSE (209)

SOIL STABILIZATION FABRIC (152)

TYPICAL SECTION C-C MILL AND OVERLAY EXISTING FAA ACCESS ROAD PAVEMENT

NOT TO SCALE

GENERAL NOTES

- THE EXISTING PAVEMENT TO BE REMOVED AND MILLED SHALL BE SAW CUT AROUND PERIMETER OF REMOVAL LIMITS. COST OF SAW CUTTING, REMOVING AND DISPOSAL OF PAVEMENT SHALL BE CONSIDERED INCIDENTAL UNLESS OTHERWISE CALLED OUT ON DIAMS.

 TABLE OF THE PAVEMENT OF THE PAVEMENT SHALL BE

 ONLY THE PAVEMENT OF THE PAVEMENT SHALL BE

 ONLY THE PAVEMENT OF THE
- 2. ANY EXCESS MATERIAL INCLUDING CLAY, EXISTING AGGREGATE BASE, MILLINGS, AND TOPSOIL SHALL BE HAULED OFF AND DISPOSED OF BY THE CONTRACTOR.

LEGEND

- (A) EXISTING BLAST PAD PAVEMENT INNER 120' WIDE ± EXISTING 4-1/2" BITUMINOUS PAVEMENT EXISTING VARIABLE DEPTH BITUMINOUS LEVELING COURSE (0" TO 6") EXISTING 8-1/2" BITUMINOUS PAVEMENT EXISTING 6" CRUSHED AGGREGATE BASE COURSE
- (B) EXISTING BLAST PAD PAVEMENT OUTER EDGE 15' WIDE ±
 EXISTING 8" BITUMINOUS PAVEMENT
 EXISTING 18" CRUSHED AGGREGATE BASE COURSE
 EXISTING 6" AND VARIABLE DEPTH POROUS GRANULAR EMBANKMENT
- © NEW 25' BITUMINOUS PAVEMENT WIDENING
 NEW 2" BITUMINOUS SURFACE COURSE (AR401610)
 NEW 2" BITUMINOUS BASE COURSE (AR403610)
 NEW 10" CRUSHED AGGREGATE BASE COURSE (AR209610)
 NEW 12" POROUS GRANULAR EMBANKMENT (AR208515)
 NEW SOIL STABILIZATION FABRIC (AR152540)
- D NEW VARIABLE DEPTH PAVEMENT MILLING (1-1/2" TO 5")(AR401650)
- E NEW 2" BITUMINOUS SURFACE COURSE OVERLAY (AR401610)
- F NEW 12" (AVG.) TOPSOIL STRIPPING (AR152410)
- G NEW UNCLASSIFIED EXCAVATION (AR152410)
- H NEW SHOULDER FILL (AR152410)
- NEW TOPSOIL PLACEMENT (4" MINIMUM)(AR152410)
- J NEW SEEDING (AR901510) AND HYDRAULIC MULCHING (AR908510)
- (K) NEW 6" PERFORATED UNDERDRAIN, TRENCH ENVELOPE AND CA-7 BACKFILL (AR705506)
- L NEW PRIME COAT (AR602510)
- M NEW TACK COAT (AR603510)
- N NEW SEEDING (AR901510) AND HYDRAULIC MULCHING (AR908510)
- EXISTING GROUNDLINE
- P NEW GROUNDLINE
- @ EXISTING UNDERDRAIN TO REMAIN
- R NEW EMAS BED (EMAS BLOCKS) (AR800209)

IL. CONTRACT: PA056
IL. LETTING ITEM: 16A
IL. PROJECT: PWK-4182

S.B.G. PROJECT: 3-17-0018-B48

SURVEY BOOK # BOOK #

REVISIONS

NUMBER BY DATE

THIS BAR IS EQUAL TO 2' AT FULL SCALE (34X22).

END)

CHICAGO EXECUTIVE AIRPORT
WHEELING/PROSPECT HEIGHTS, ILLINOIS
CONSTRUCT EMAS - RUNWAY 34 END (16 DEPARTURE
TYPICAL SECTIONS

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

DESIGN BY: JRL

DRAWN BY: JRO

CHECKED BY: DKP

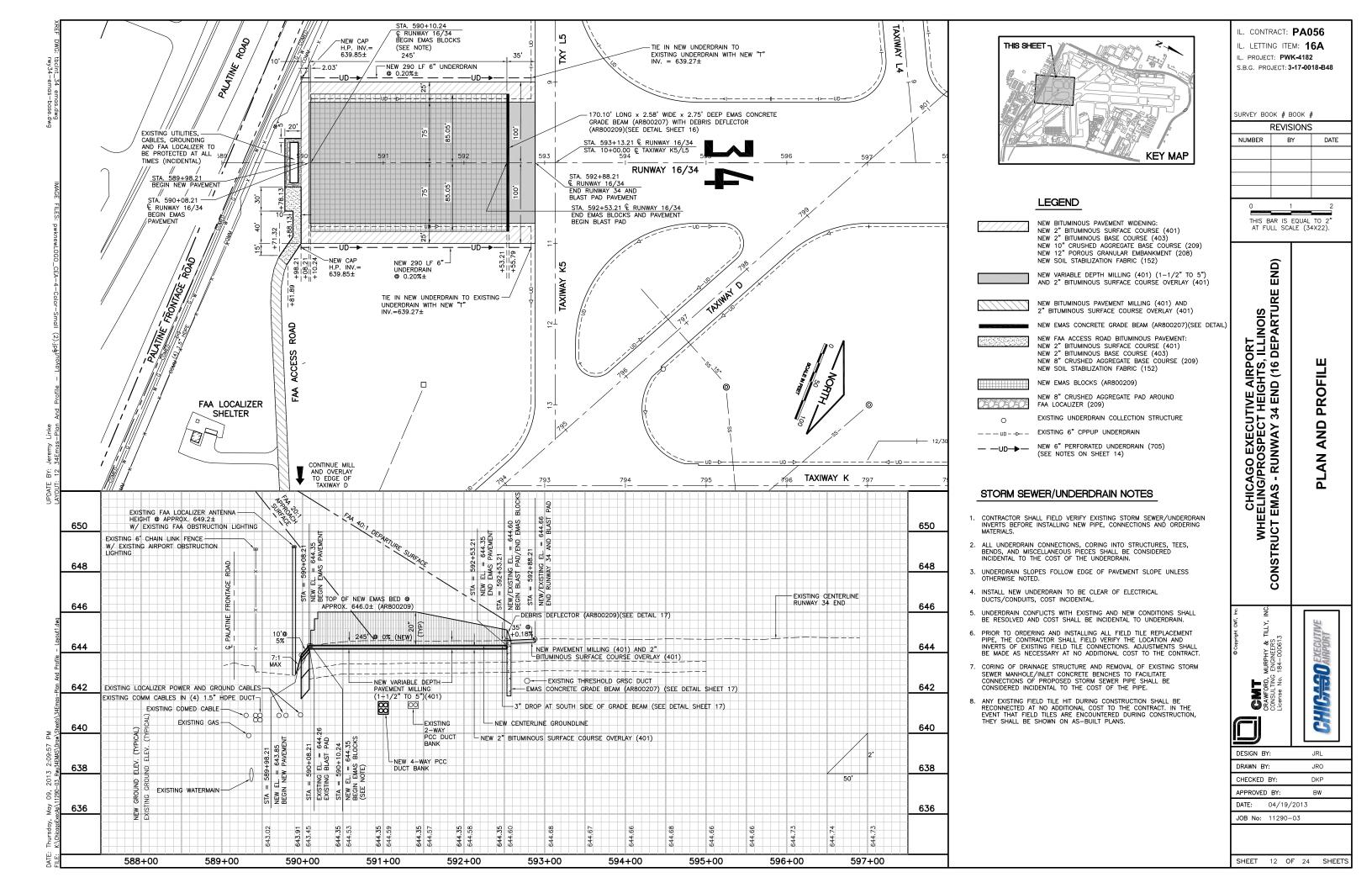
APPROVED BY: BW

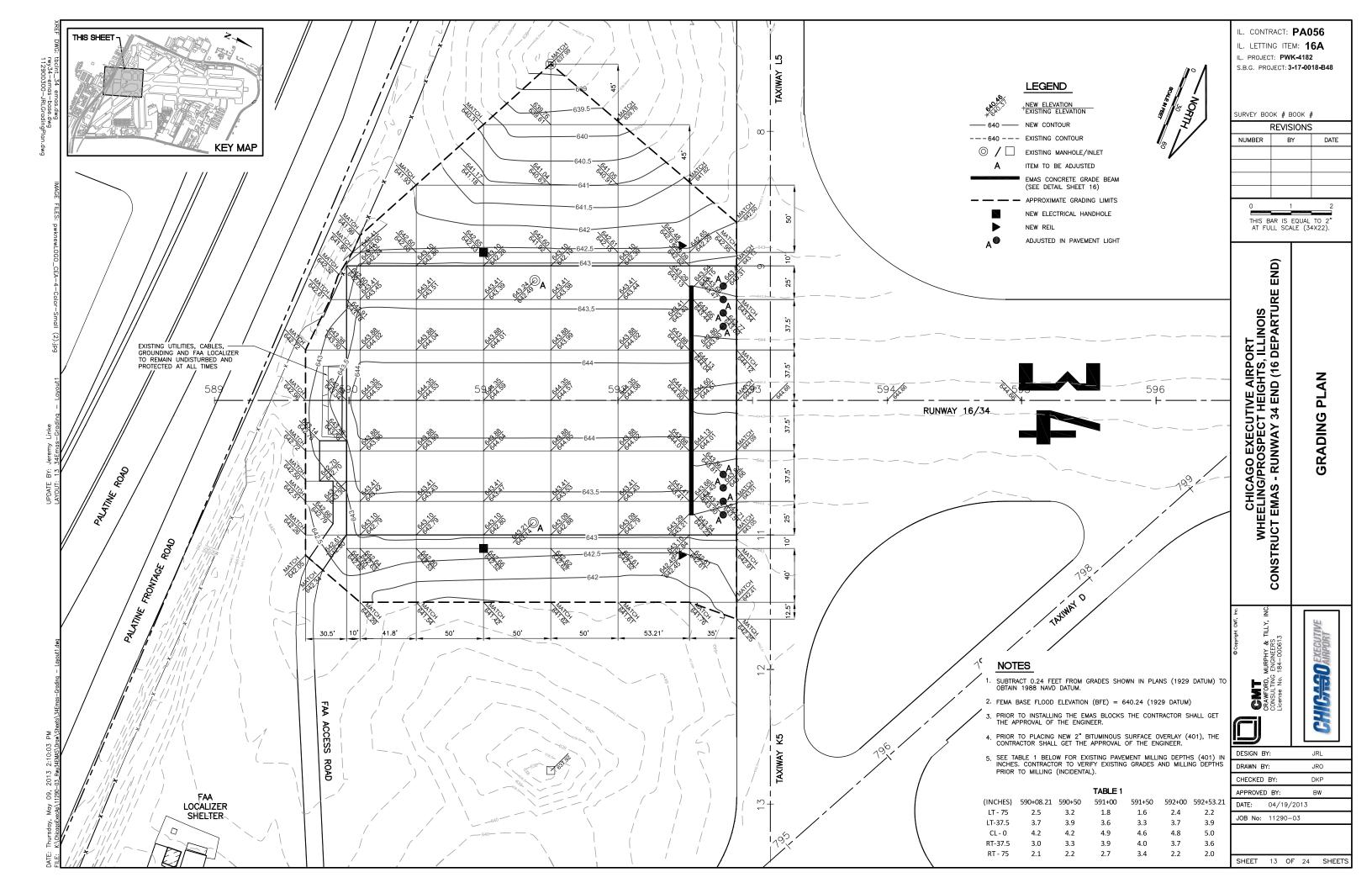
DATE: 04/19/2013

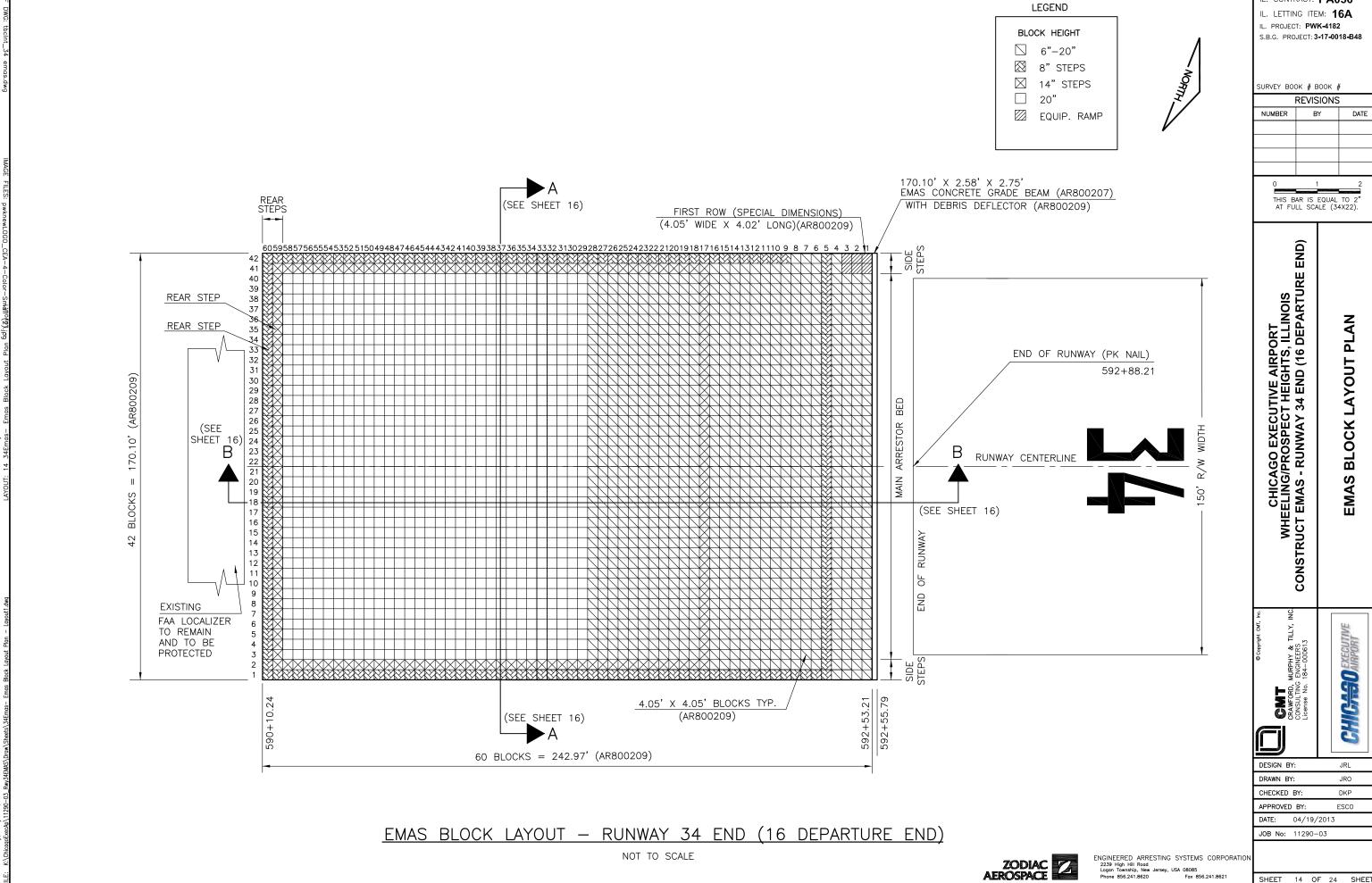
JOB No: 11290-03

SHEET 11 OF 24 SHEETS

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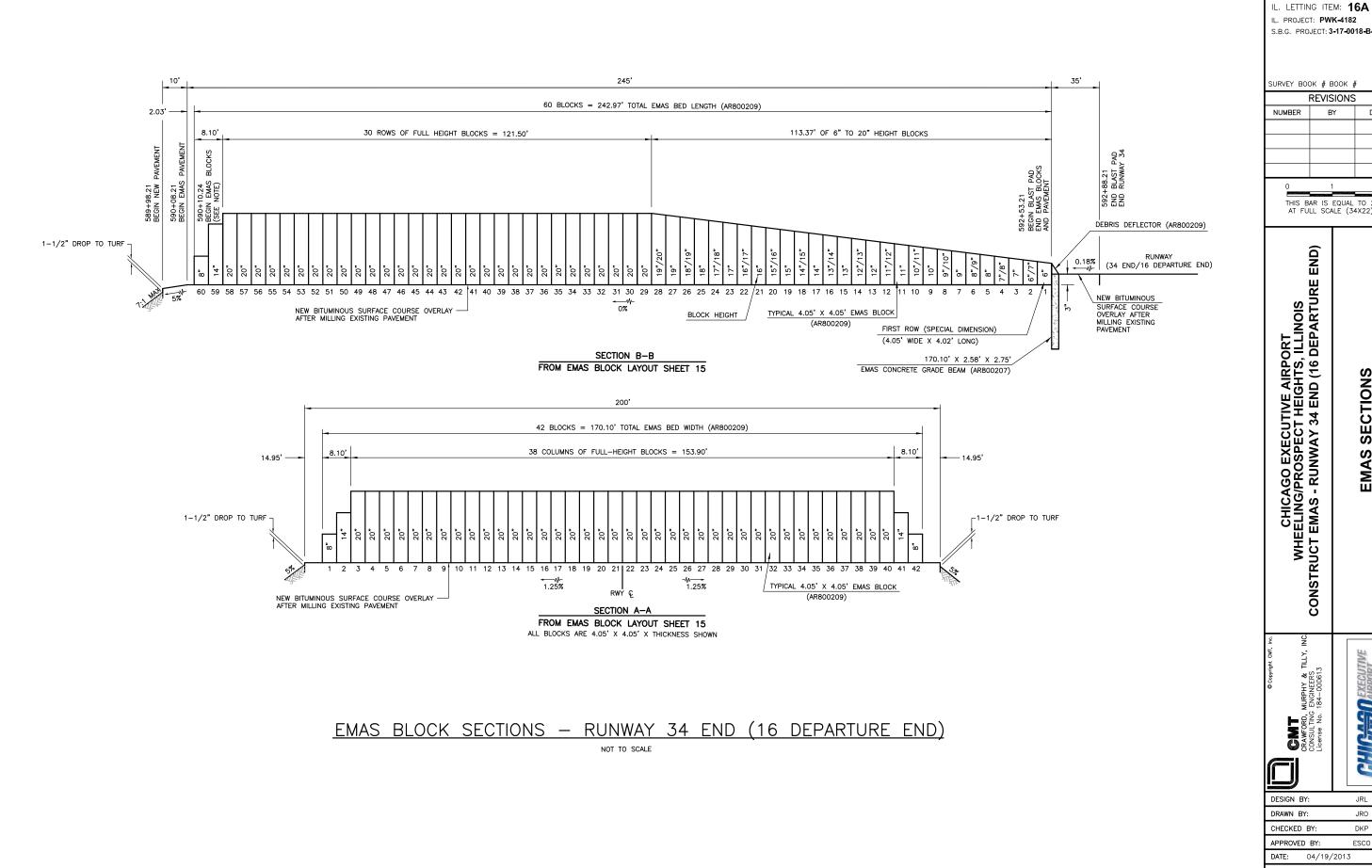






IL. CONTRACT: PA056

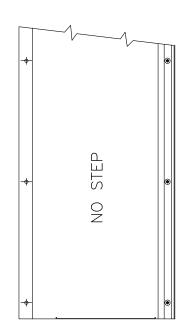
SHEET 14 OF 24 SHEETS

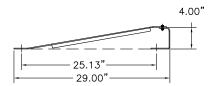


S.B.G. PROJECT: 3-17-0018-B48 SURVEY BOOK # BOOK # REVISIONS BY DATE THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22). CHICAGO EXECUTIVE AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS CONSTRUCT EMAS - RUNWAY 34 END (16 DEPARTURE END) **EMAS SECTIONS** CHICA-30 EXECUTIVE MURPHY & T ENGINEERS 184-000613 CRAWFORD, N CONSULTING License No. DESIGN BY: JRL DRAWN BY: JRO CHECKED BY: DKP APPROVED BY: DATE: 04/19/2013 JOB No: 11290-03 ENGINEERED ARRESTING SYSTEMS CORPORATION 2239 High Hill Rood Logan Township, New Jersey, USA 08085 Phone 856.241.8620 Fox 856.241.8621 SHEET 15 OF 24 SHEETS

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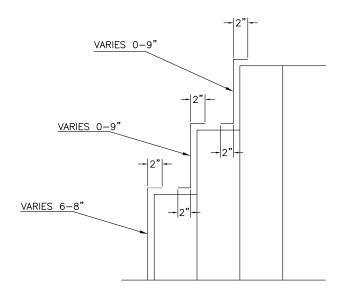
IL. CONTRACT: PA056





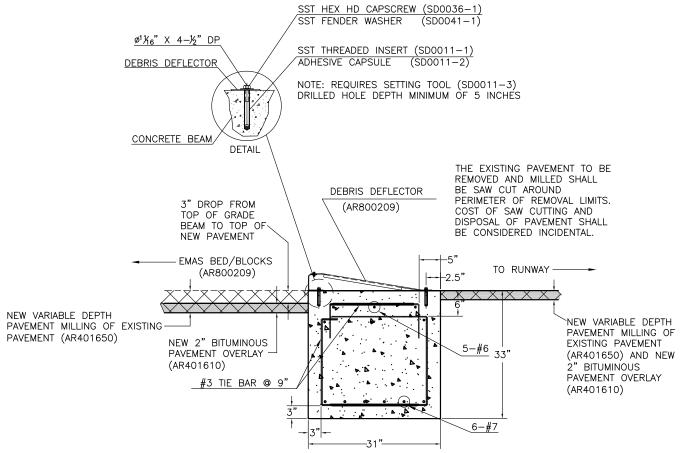
TYPICAL DEBRIS DEFLECTOR ASSEMBLY (AR800209)

SCALE: N.T.S.



SIDE COATING (AR800209)

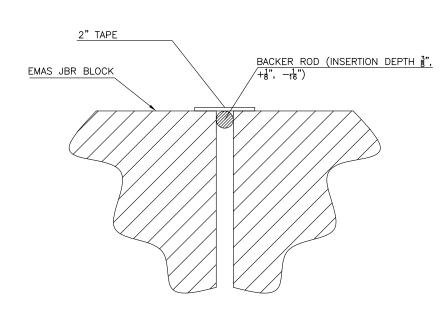
APPROXIMATELY 2,000 NET SQ. FT. OF EXTRUDED SILICONE SIDE COATING APPLIED TO VERTICAL SURFACES SCALE: N.T.S.



ALL BARS SHALL BE ASTM-A706, GRADE 60 (TYP.)

EMAS CONCRETE GRADE BEAM DETAIL SECTION (AR800207)

SCALE: N.T.S.



TYPICAL TAPE JOINT (AR800209)

ESCO WILL SUPPLY SPECIALTY TAPE. SCALE: N.T.S.



ENGINEERED ARRESTING SYSTEMS CORPORATION 2239 High Hill Rood Logan Township, New Jersey, USA 08085 Phone 856.241.8620 Fox 856.241.8621

IL. LETTING ITEM: 16A IL. PROJECT: PWK-4182 S.B.G. PROJECT: 3-17-0018-B48

IL. CONTRACT: PA056

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

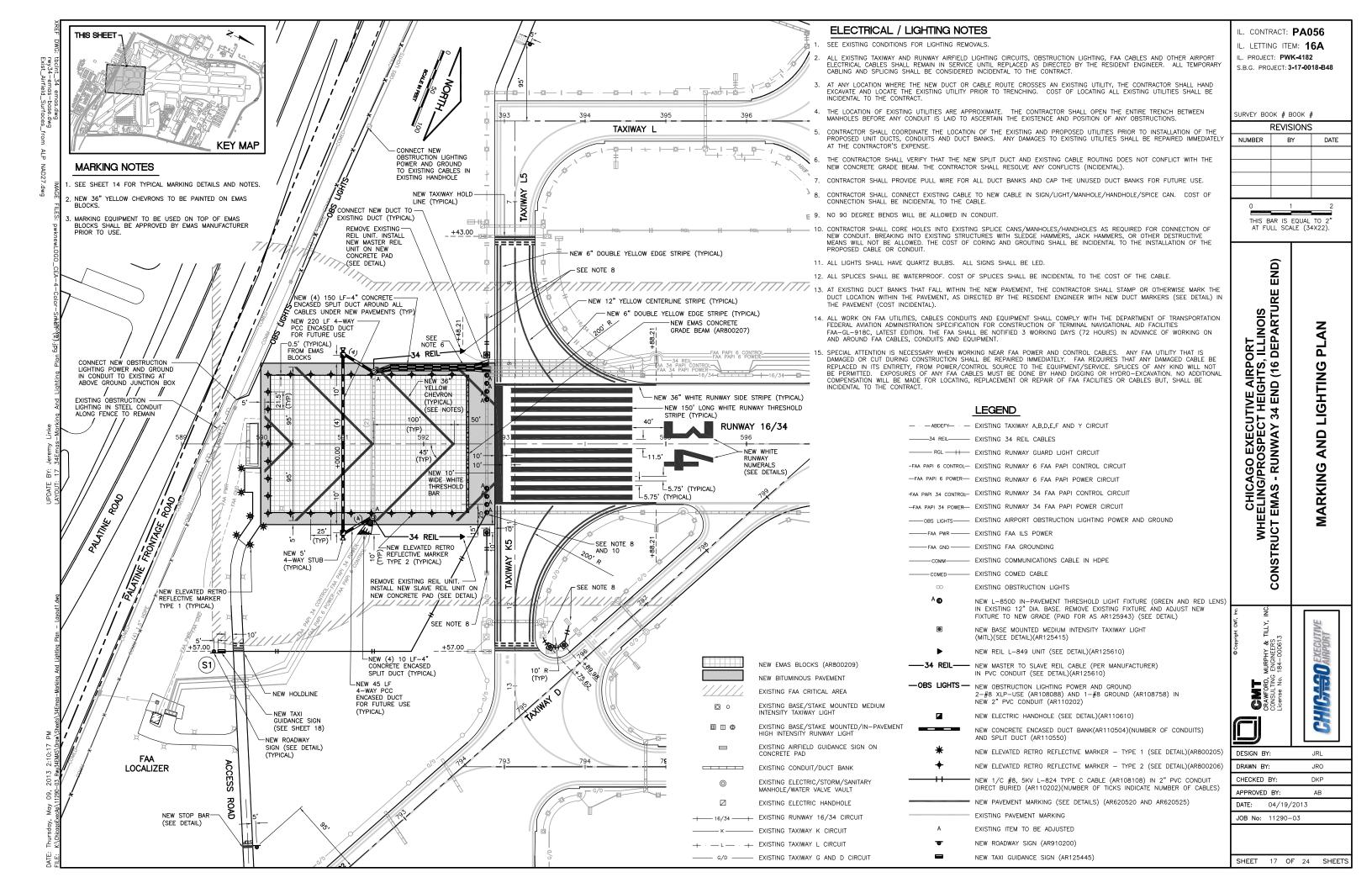
CHICAGO EXECUTIVE AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS CONSTRUCT EMAS - RUNWAY 34 END (16 DEPARTURE END) **EMAS DETAILS**

CHICA-30 EXECUTIVE CRAWFORD, I CONSULTING License No.

DESIGN BY: JRL DRAWN BY: JRO DKP

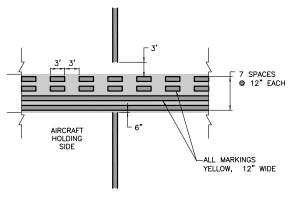
CHECKED BY: APPROVED BY: DATE: 04/19/2013 JOB No: 11290-03

SHEET 16 OF 24 SHEETS



PAVEMENT MARKING NOTES

- 1. ALL TAXIWAY MARKINGS ARE YELLOW (AR620520) WITH A 6" BLACK BORDER (AR620525) UNLESS NOTED.
- 2. ALL RUNWAY MARKINGS (AR620520) ARE WHITE WITH A 6" BLACK BORDER (AR620525) UNLESS NOTED.
- 3. THE PAVEMENT SURFACE SHALL BE CLEAN AND DRY PRIOR TO MARKING.
- 4. WHEN YELLOW TAXIWAY STRIPING CROSSES ANY WHITE RUNWAY STRIPING, THE TAXIWAY STRIPE SHALL BE GAPPED 8" EACH SIDE OR RUNWAY STRIPE EXCEPT RUNWAY/RUNWAY HOLDLINES.
- ALL LETTERS, NUMBERS AND SYMBOLS SHALL CONFORM TO FAA ADVISORY CIRCULAR 150/5340-1K (LATEST EDITION).

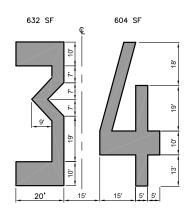


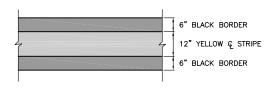
PAVEMENT WIDTH (MIN.) -5-FOOT TALL WHITE LETTERS

RUNWAY HOLDING POSITION MARKING

NOT TO SCALE

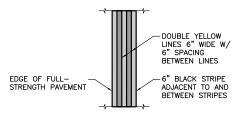


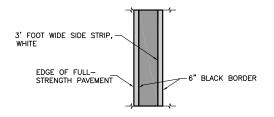




TAXIWAY CENTERLINE DETAIL NOT TO SCALE

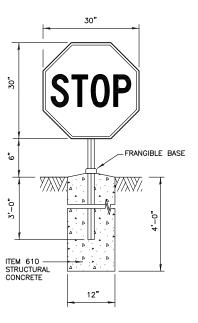
NUMERAL DETAILS NO SCALE





TAXIWAY EDGE MARKINGS CONTINUOUS NOT TO SCALE





ROADWAY SIGN

NOT TO SCALE - AR901200

NOTES

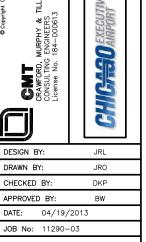
ALL SIGNS ARE STANDARD MATERIALS, COLORS AND LETTER STYLE AND SIZE AS SHOWN IN THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.

AIRFIELD SIGNAGE SCHEDULE							
NEW SIGN NUMBER	NEW SIGN FACE	NEW SIGN LEGEND	NEW SIGN TYPE	NEW SIGN LOCATION			
S1	W E	BΓ∀NK 16	0 1	SEE SHEET 17			

NEW SIGN TYPE LEGEND

- BLANK PANEL BLACK
- RUNWAY/TAXIWAY HOLDLINE WHITE LEGEND ON RED BACKGROUND LOCATION SIGN YELLOW LEGEND ON BLACK BACKGROUND
- 3 DIRECTION/INFORMATION SIGN BLACK LEGEND ON YELLOW BACKGROUND

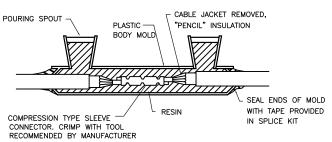
IL. CONTRACT: PA056 IL. LETTING ITEM: 16A IL. PROJECT: PWK-4182 S.B.G. PROJECT: 3-17-0018-B48 SURVEY BOOK # BOOK # REVISIONS NUMBER BY DATE THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22). END) **DETAILS** CHICAGO EXECUTIVE AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS CONSTRUCT EMAS - RUNWAY 34 END (16 DEPARTURE MISCELLANEOUS



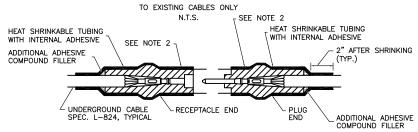
SHEET 18 OF 24 SHEETS

AND

MARKING

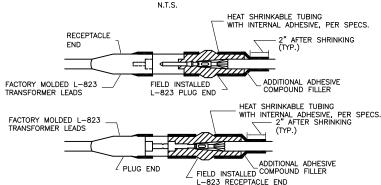


TYPE A - CABLE SPLICE FOR SPLICES IN HOMERUNS AND FOR EXTENSIONS



TYPE B - CABLE SPLICE

FOR SPLICES FOR USE AT JUNCTION OF HOMERUN WITH LOOP CIRCUIT

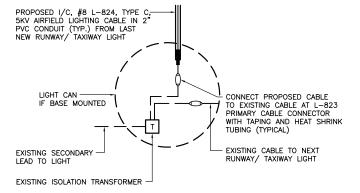


TYPE C AND D - CABLE SPLICE

FOR SPLICES AT RUNWAY/TAXIWAY LIGHTS AND SIGNS N.T.S.

NOTES

- 1. INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE.
- 2. WRAP WITH AT LEAST ONE LAYER OF RUBBER OR SYNTHETIC RUBBER TAPE AND ONE LAYER OF PLASTIC TAPE, ONE-HALF LAPPED, EXTENDING AT LEAST 1-1/2 INCHES ON EACH SIDE OF JOINT.
- 3. THE COST OF FURNISHING AND INSTALLING ALL SPLICE MATERIALS SHALL BE INCIDENTAL TO THE ASSOCIATED CABLE ITEMS.
- 4. THE CONTRACTOR SHALL HAVE A MINIMUM OF TWO (2) TYPE A SPLICE KITS ON THE JOB SITE AT ALL TIMES FOR EMERGENCY REPAIRS.



RUNWAY/TAXIWAY LIGHTING CIRCUIT CONNECTION DETAIL

GENERAL NOTES

- TRANSFORMER HOLDER MAY BE ANY COMMERCIALLY AVAILABLE BRICK.
- 2. BREAKING GROOVE COUPLINGS SHALL NOT BE OVER 1" ABOVE GROUND LINE.
- ISOLATION TRANSFORMERS COME WITH A FACTORY INSTALLED PLUG (TYPE 1, CLASS A, STYLE 2) AND RECEPTACLE (TYPE 1, CLASS A, STYLE 9). A TYPE 1, CLASS B, STYLE 3 PLUG AND TYPE 1, CLASS B, STYLE 10 RECEPTACLE SHALL BE INSTALLED ON THE 1/C, No. 8, 5000 V., L-824 TYPE C CABLES FOR CONNECTION TO EACH TRANSFORMER
- 4. TO FURTHER REDUCE THE POSSIBILITY OF WATER/MOISTURE ENTRANCE INTO THE CONNECTOR BETWEEN THE CABLE AND THE FIELD ATTACHED CONNECTOR, IT IS REQUIRED THAT A HEAT SHRINKABLE TUBING WITH INTERNAL ADHESIVE BE APPLIED OVER THE ENTIRE CABLE CONNECTOR.
- 5. ALL LIGHTS, CABLES AND TRANSFORMERS TO BE REMOVED SHALL REMAIN THE THE PROPERTY OF THE AIRPORT. AT THE DISCRETION OF THE AIRPORT MANAGER THE CONTRACTOR MAY BE REQUIRED TO DISPOSE OF THESE MATERIALS OFFSITE.
- 6. DUCT MARKERS SHALL BE INSTALLED AT EVERY NEW DUCT AND AT EVERY EXISTING DUCT USED FOR THIS PROJECT.

DRILL AND GROUT --PROPOSED TIE BAR

15"

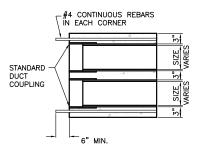
- MOUND SLIGHTLY, GRADE AND SEED GRADE MIN. MIN. BACKFILL RESTORATION PER SPEC. 108-3.5 (TYP.) SAND OR EARTH BACKFILL (TYP.) MIN. INSULATED CABLE AS SHOWN ON LIGHTING-LAYOUT SHEETS IN 2" PVC CONDUIT (TYP.)

TURF AREA CABLE TRENCH DETAIL

NOT TO SCALE

NOTES

- 1. 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.
- 2. DEPTH OF TRENCHES SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- 3, SAND BACKFILL SHALL BE USED IF THE EXISTING SOIL DOES NOT MEET THE BACKFILL REQUIREMENTS.
- 4. ALL DISTURBED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. COST IS INCIDENTAL.



EXTENSION OF EXISTING DUCT NO SCALE

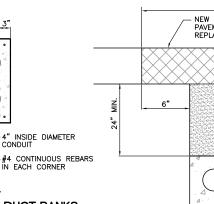
15"

#4 BARS EACH CORNER (TYP)

NOTE: COST OF CONNECTION SHALL BE CONSIDERED INCIDENTAL TO PROPOSED DUCT.

EXISTING CONCRETE PROPOSED CONCRETE

CONCRETE ENCASED DUCT **END DETAIL** NO SCALE 3' MAX NEW BITUMINOUS

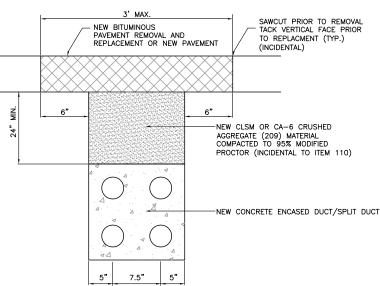


CONCRETE ENCASED DUCT BANKS NOT TO SCALE

4-WAY

NOTES:

- 1. DIMENSIONS ARE MINIMUM
- 2. CONCRETE SHALL CONFORM TO ITEM 610.
- 3. ALL CONDUIT SHALL BE SCHEDULE 40 PVC
- 4 TOP OF CONCRETE ENCASEMENT IN TURE AREAS SHALL NOT BE LESS THAN 24" BELOW SUBGRADE.
- 5. 4" SPLIT DUCT SHALL BE CONCRETE ENCASED WITH 3" MINIMUM CONCRETE SURROUNDING 4" CONDUIT. COST INCIDENTAL TO SPLIT DUCT.



DUCT BANK INSTALLATION UNDER EXISTING OR NEW PAVEMENT NOT TO SCALE

NOTE: THE CONTRACTOR SHALL
VERIFY THE THICKNESS OF
MATERIAL TO BE REMOVED. NO
EXTRA COMENSATION SHALL BE
ALLOWED FOR ANY VARIATION
IN THE PAVEMENT SECTIONS ACTUALLY ENCOUNTERED.

ELEVATED RETROFLECTIVE MARKER TYPE 1

HIGH

RED POST (HEIGHT ABOVE

GROUND)

INTENSITY RED REFLECTOR OR WRAPS

18" SOIL ANCHOR

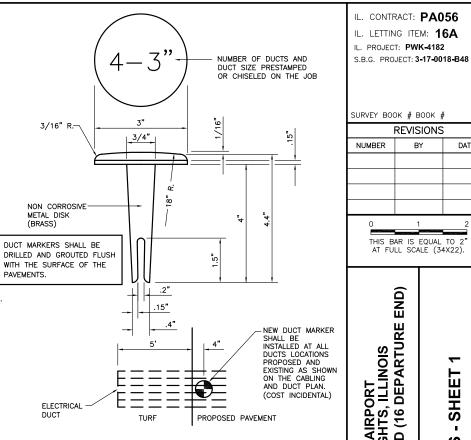
(SOIL ANCHOR MOUNT) NOT TO SCALE - AR800205

NOTE: RETROFLECTIVE MARKER SHALL BE CROUSE-HINDS OR APPROVED

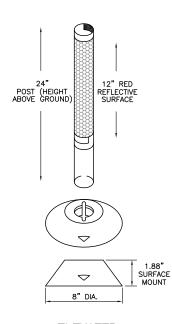
ELEVATED RETROFLECTIVE MARKER TYPE 2

(SURFACE MOUNT)

NOTE: RETROFLECTIVE MARKER SHALL BE CROUSE-HINDS OR APPROVED



DUCT MARKER DETAIL



99

IL. CONTRACT: PA056

IL. PROJECT: PWK-4182

SURVEY BOOK # BOOK #

NUMBER

REVISIONS

BY

THIS BAR IS FOLIAL TO 2

END)

CHICAGO EXECUTIVE AIRPORT IEELING/PROSPECT HEIGHTS, ILLINOIS F EMAS - RUNWAY 34 END (16 DEPARTURE

WHE CONSTRUCT

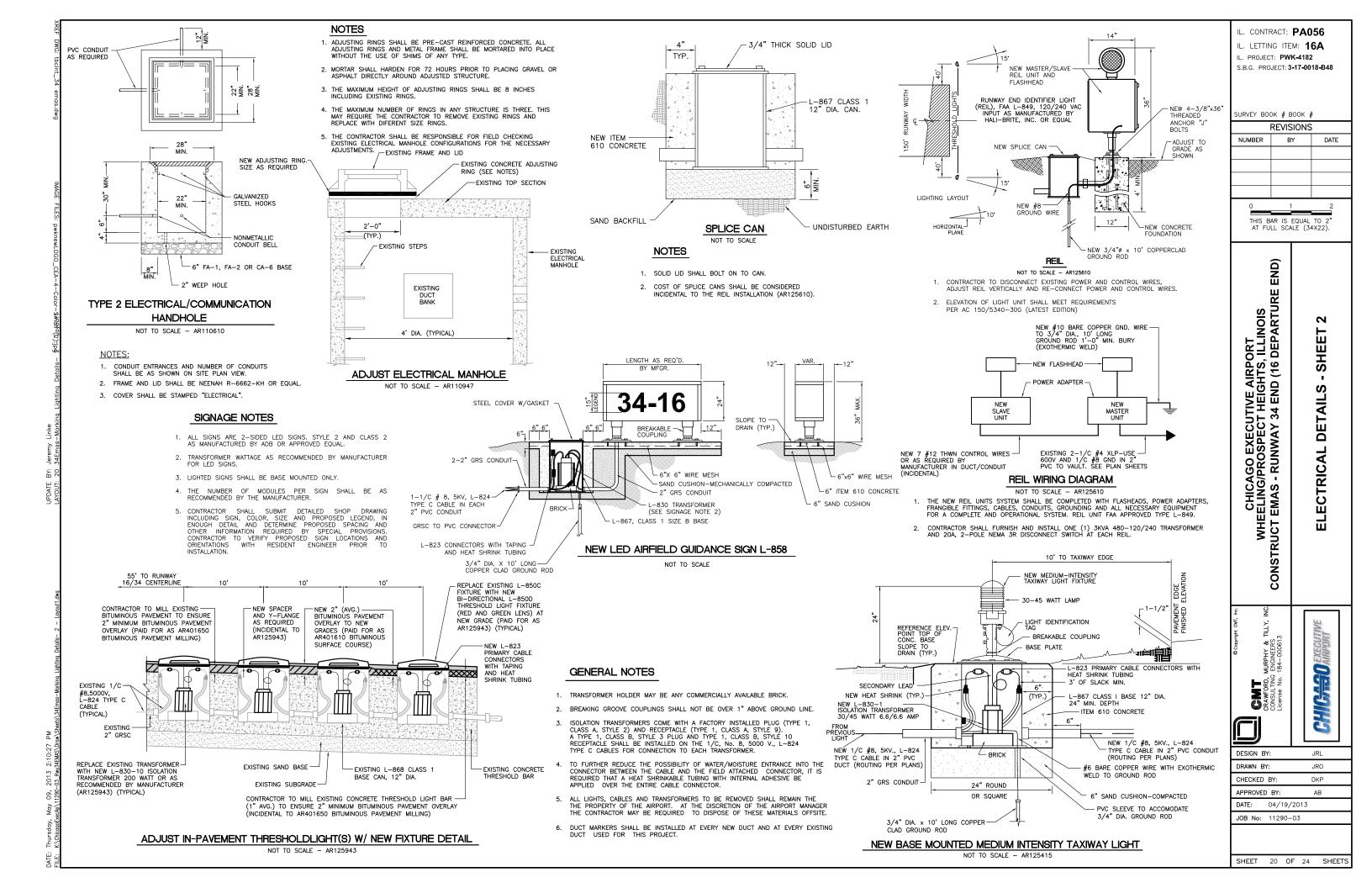
DATE

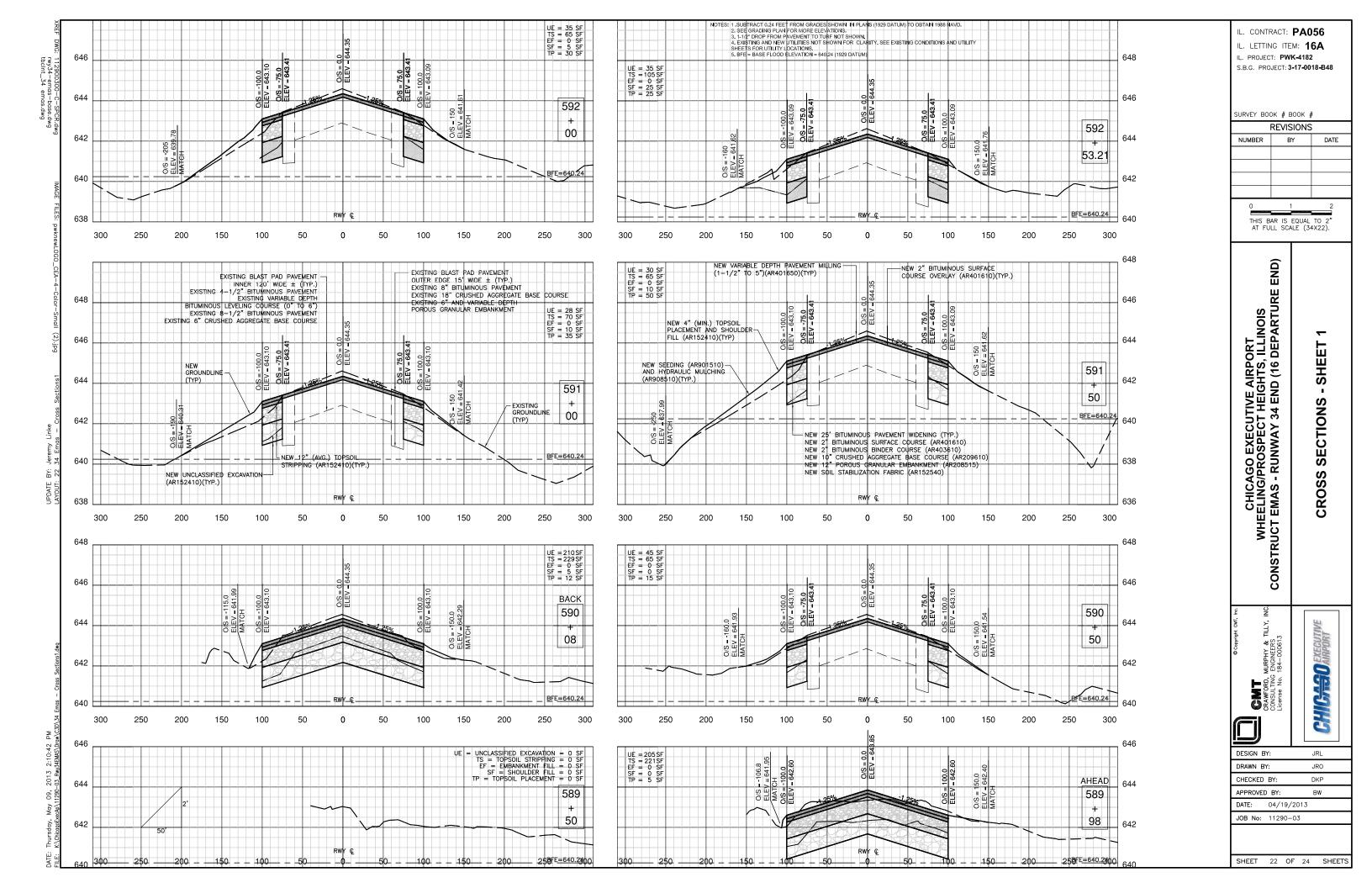
SHE

DETAILS

CTRICAL

DESIGN BY JRL DRAWN BY JRO CHECKED BY APPROVED BY 04/19/2013 JOB No: 11290-03 SHEET 19 OF 24 SHEETS





IL. CONTRACT: PA056 IL. LETTING ITEM: 16A IL. PROJECT: PWK-4182 S.B.G. PROJECT: **3-17-0018-B48** SURVEY BOOK # BOOK # REVISIONS NUMBER DATE THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22). END) CHICAGO EXECUTIVE AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS CONSTRUCT EMAS - RUNWAY 34 END (16 DEPARTURE - SHEET **CROSS SECTIONS** 646 593 13 644 CHICA-30 EXECUTIVE MURPHY & T ENGINEERS 184-000613 NOTES:1 .SUBTRACT 0.24 FEET FROM GRADES SHOWN IN PLANS (1929 DATUM) TO OBTAIN 1988 NAVD.

2. SEE GRADING PLAN FOR MORE ELEVATIONS.

3. 1-1/2 PROP FROM PAVEMENT TO TURE NOT SHOWN.

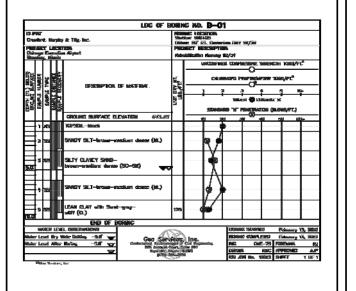
4. EXISTING AND NEW UTILITIES NOT SHOWN FOR CLARITY. SEE EXISTING CONDITIONS AND UTILITY SHEETS FOR UTILITY LOCATIONS.

5. BFE = BASE FLOOD ELEVATION = 640,24 (1929 DATUM) 50 CRAWFORD, NCONSULTING 250 200 150 100 50 100 150 200 250 300 300 0 648 O.S. = 75.0 GRADE BEAM ELEV = 643.66 O.S. = 85.05 GRADE BEAM O.S. = 643.54 O.S. = 100.0 ELEV = 643.10 648 O/S = 0.0 GRADE BE ELEV = 644.60 — NEW EMAS CONCRETT GRADE BEAM (ARBGO UE = 40 SF TS = 100 SF EF = 0 SF SF = 0 SF TP = 30 SF UE = 60 SF TS = 55 SF EF = 0 SF SF = 0 SF TP = 25 SF O/S = 75.0 ELEV = 643.51 May 09, 2013 2:10:43 cdp\11290-03 Rwv34FMA<\nra DESIGN BY: JRL BACK DRAWN BY: JRO 592 592 CHECKED BY: DKP 644 O/S = -160 ELEV = 641. APPROVED BY: 88.21 55.79 DATE: 04/19/2013 JOB No: 11290-03 642 642 25BFE=640.2400 25BFE=640.200 640 SHEET 23 OF 24 SHEETS

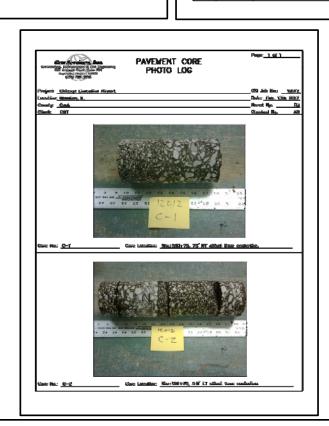
SOIL BORING SCHEDULE

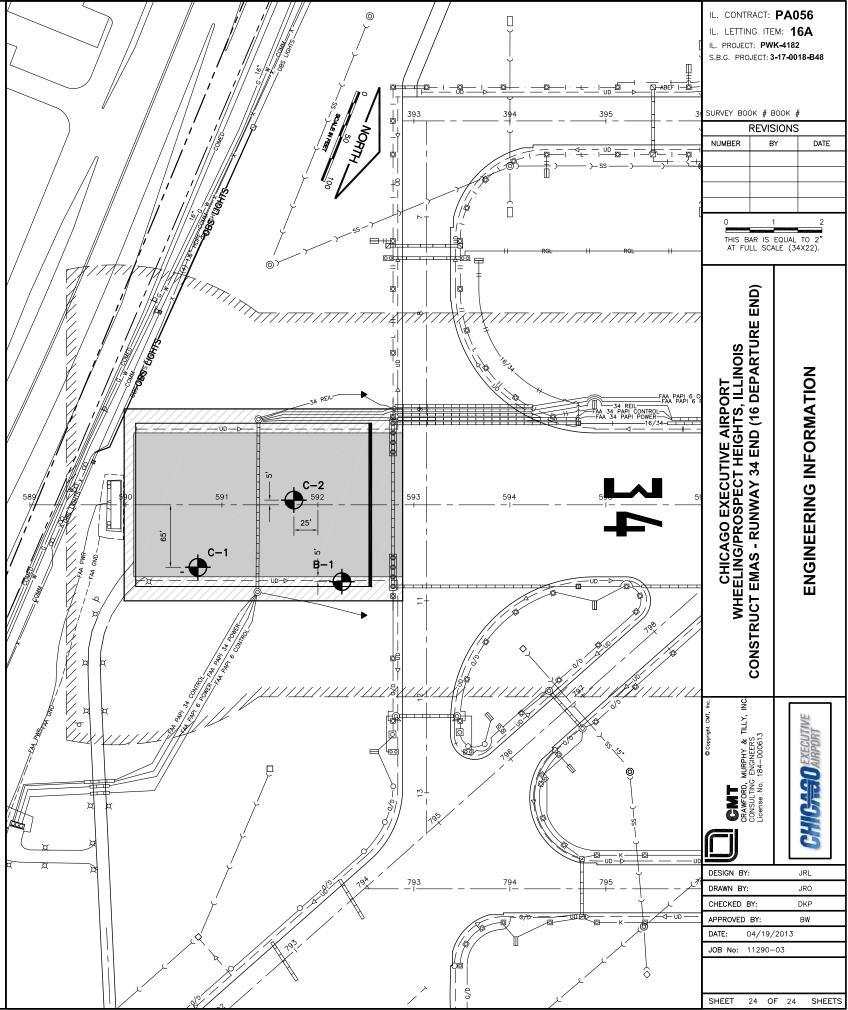
NO.	NORTHING	EASTING	STA.	OFFSET	ELEVATION
B-1	1983097.26	617589.88	592+25	80' RT. CENTERLINE RWY 16/34	643.25
C-1	1982952.33	617631.36	590+75	65' RT. CENTERLINE RWY 16/34	643.60
C-2	1983019.39	617529.37	591+75	5' LT. CENTERLINE RWY 16/34	644.55

NOTE: HORIZONTAL CONTROL IS IN 1927 DATUM. VERTICAL CONTROL IS IN 1929 DATUM.



Ge Chinhand	Subsurface Investigation for the Apport						
CORE NO.	THOKNESS (in.)	MATERIAL DESCRIPTION					
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c ⊸1	\$35 3.8 3.75 68t-	ASPHALT — Pourly connelledade, that he market appropriate with ASPHALT — Well connelledade, line he course appropriate with ASPHALT — Well connelledade, line he course appropriate size. Coursed status.					
		Sinc: SW+75, S.E' LT contentine FRIT 15/31	thesites 444.00				
C-2		All Title T — Pearly mentalisates, that in certain appropria solar stretched — Will a monthfelder, the list centure appropria clim ASPHALT — Will secondfielder, line the restaline appropria clim ASPHALT — Will secondfielder, line the matters appropriate clim ASPHALT — Will excentificate, line the matters significant cells ASPHALT — Will secondfielder, line the convex copyrights clim ASPHALT — Will secondfielder, line the convex copyrights clim.					





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