CHICAGO EXECUTIVE AIRPORT TOTAL SHEETS = 21 WHEELING/PROSPECT HEIGHTS, ILLINOIS

CONSTRUCTION PLANS FOR CHICAGO EXECUTIVE AIRPORT



JOINT UTILITY LOCATING www.illinois1call.com

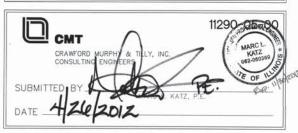
THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ACTUAL LOCATIONS OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF HIS OPERATIONAL PLANS, OBTAIN FROM RESPECTIVE UTILITY COMPANIES OF 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 BY 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 RANGE: 11 EAST COOK COUNTY

SECTION: 13





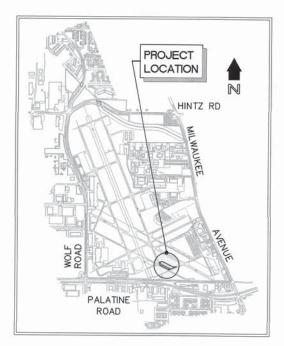
PROJECT LOCATION

LOCATION MAP

REHAB RUNWAY 34 HOLD APRON

ILLINOIS PROJECT: PWK-4181 A.I.P. PROJECT: 3-17-0018-B47

DATE: APRIL 20, 2012



DESIGN AIRCRAFT: D III (GULFSTREAM 550) **GROUND FREQENCY: 121.7 TOWER FREQUENCY: 119.9** MAXIMUM EQUIPMENT HEIGHT = 25°

PA053

INDEX TO SHEETS

- 1 COVER SHEET
- 2 SUMMARY OF QUANTITIES
- 3 SITE PLAN/PROJECT CONTROL PLAN
- 4 SEQUENCE OF CONSTRUCTION PER AC 150/5370-2F (LATEST EDITION)
- 5 SEQUENCE OF CONSTRUCTION GENERAL NOTES AND DETAILS
- 6 STORM WATER POLLUTION PREVENTION PLAN AND NOTES
- 7 STORM WATER POLLUTION PREVENTION PLAN DETAILS SHEET 1
- 8 STORM WATER POLLUTION PREVENTION PLAN DETAILS SHEET 2
- 9 EXISTING CONDITIONS/PROPOSED REMOVALS
- 10 TYPICAL SECTIONS
- 11 PAVEMENT JOINTING PLAN 12 PAVEMENT JOINTING DETAILS
- 13 GRADING PLAN
- 14 PAVEMENT MARKING PLAN
- 15 DRAINAGE PLAN
- 16 DRAINAGE DETAILS
- 17 STORM SEWER PROFILE
- 18 LIGHTING AND SIGNAGE PLAN
- 19 ELECTRICAL DETAILS SHEET
- 20 ELECTRICAL DETAILS SHEET 2
- 21 ENGINEERING INFORMATION

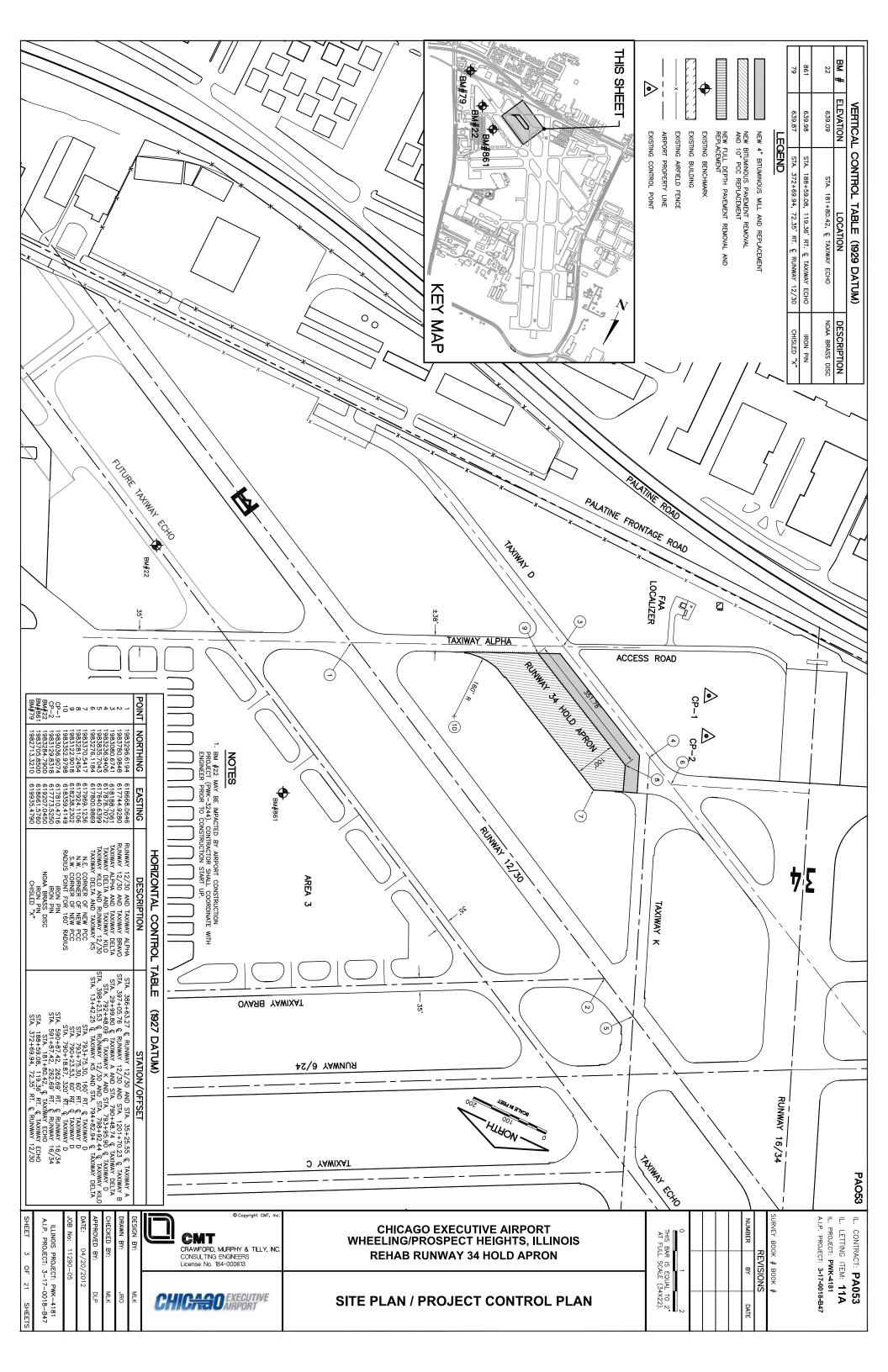
SITE PLAN

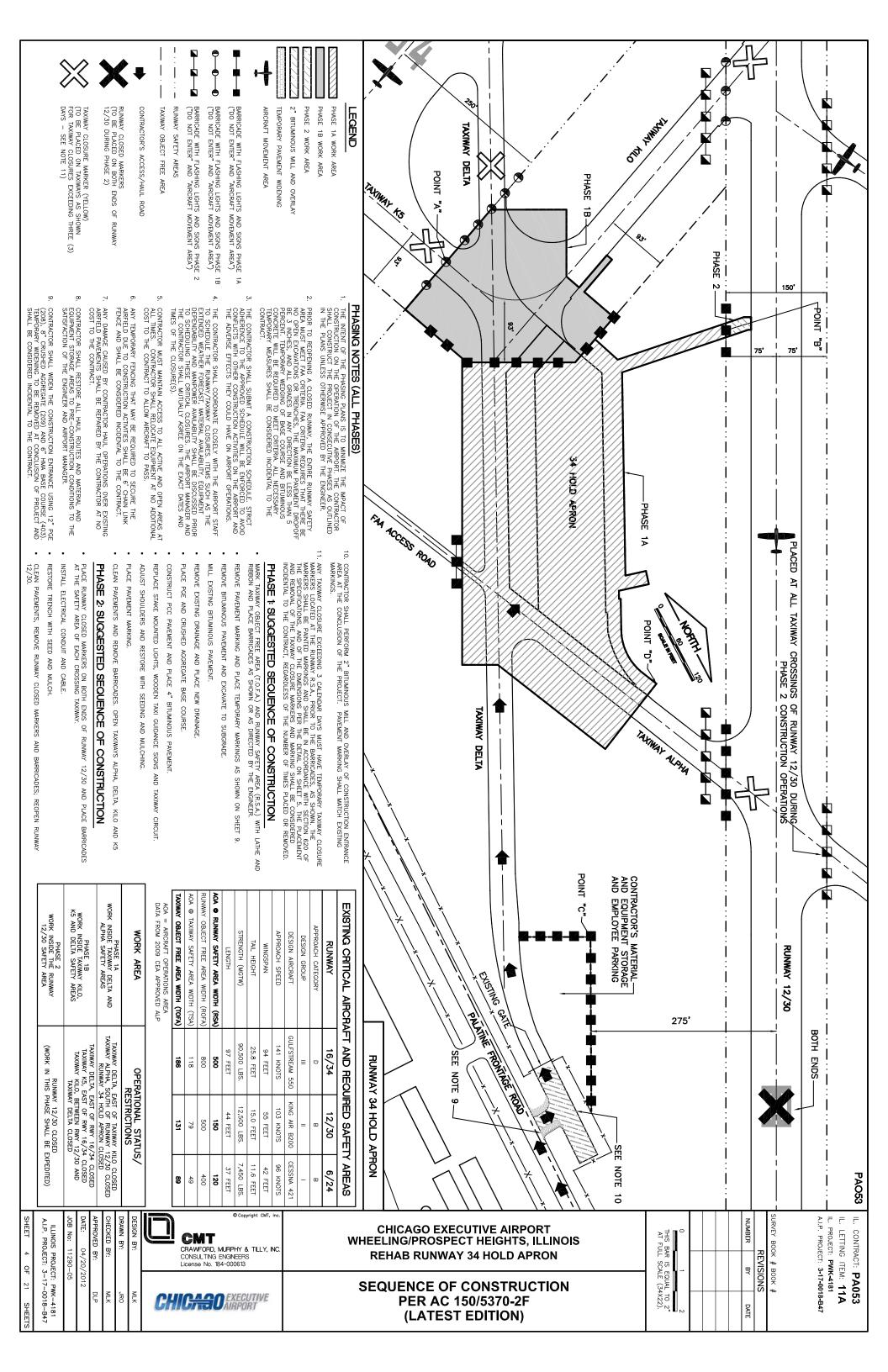
SUMMARY OF QUANTITIES

ITEM NO.	0.30	ACRE	AR908510 MULCHING
DESCRIPTION UNIT QUANTI 1/C #8 5KV UG CABLE Z"PYC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 3 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER EACH TAXI GUIDANCE SIGN, 5 CHARACTER EACH EACH ENCH ENCH EACH EA	0.30	ACRE	
ILE PROTECTION DESCRIPTION UNIT QUANTI 1/C #8 5KV UG CABLE LF 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAM GUIDANCE SIGN, 1 CHARACTER TAM GUIDANCE SIGN, 2 CHARACTER TAM GUIDANCE SIGN, 3 CHARACTER TAM GUIDANCE SIGN, 5 CHARACTER TAM GUIDANCE SIGN, 5 CHARACTER TAM GUIDANCE SIGN, 5 CHARACTER EACH TAM GUIDANCE SIGN, 5 CHARACTER TON SY SOIL STABILIZATION SY SIT FENCE INLET PROTECTION FOROUS GRANULAR EMBANKMENT CY CRUSHED AGG, BASE COURSE BITUMINOUS GRANULAR EMBANKMENT TON BITUMINOUS GRANULAR EMBANKMENT CY CRUSHED AGG, BASE COURSE BITUMINOUS BASE COURSE TON BITUMINOUS BASE COURSE SY PAVEMENT MARKING - BLACK BORDER SY PAVEMENT MARKING - BLACK BORDER SF PAVEMENT MARKING S REMOVAL LF TYPE 1 INLET EACH EACH LF TOR CONCRETE WASHOUT LS LS LS LS LS LS LS LS LS L	9	EACH	REMOVE WOODEN TAX
DESCRIPTION UNIT QUANTI 1/C #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER EACH TAXI GUIDANCE SIGN, 3 CHARACTER EACH TAXI GUIDANCE SIGN, 5 CHARACTER EACH EACH TAXI GUIDANCE SIGN, 5 CHARACTER EACH EACH TAXI GUIDANCE SIGN, 5 CHARACTER EACH EACH TOWNICLASSIFIED OFFICE MOBILIZATION SY SHOULDER ADJUSTMENT SY SILT FENCE INLET PROTIECTION BITUMINOUS TABILIZATION FABRIC SY SITTENCE BITUMINOUS GRANULIAR EMBANKMENT CY CRUSHED AGG. BASE COURSE TON BITUMINOUS BASE COURSE TON BITUMINOUS BASE COURSE TON TON BITUMINOUS BASE COURSE TON BITUMINOUS BASE COURSE TON BITUMINOUS BASE COURSE TON TON TON TON TON BITUMINOUS BASE COURSE TON		LS	
DESCRIPTION UNIT QUANTI 1/C #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER EACH REMOVE STAKE MOUNTED LIGHT EACH TOWNINGUERS FIELD OFFICE UNCLASSIFIED EXCAVATION SULT FENCE SULT FENCE SULT FENCE SULT FENCE SY BITUMINOUS GRANULAR EMBANKMENT POROUS GRANULAR EMBANKMENT SY BITUMINOUS BASE COURSE TON BITUMINOUS BASE COURSE TON BITUMINOUS BASE COURSE TON TON BITUMINOUS BASE COURSE TON TON BITUMINOUS BASE COURSE TON BEACH BEAC	ω	EACH	AR751900 REMOVE INLET
DESCRIPTION I/C #8 5KV UG CABLE I/C #8 5KV UG CAB	3	EACH	-
DESCRIPTION	360	ᄕ	
DESCRIPTION	330	뚜	
DESCRIPTION UNIT QUANTI 1/C #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY ITAX GUIDANCE SIGN, 1 CHARACTER TAX GUIDANCE SIGN, 3 CHARACTER TAX GUIDANCE SIGN, 3 CHARACTER TAX GUIDANCE SIGN, 5 CHARACTER TAX GUIDANCE SIGN, 5 CHARACTER EACH TAX GUIDANCE SIGN, 5 CHARACTER TAX GUIDANCE SIGN, 5 CHARACTER EACH TAX GUIDANCE SIGN, 5 CHARACTER TAX GUIDANCE SIGN, 5 CHARACTER EACH TAX GUIDANCE SIGN, 5 CHARACTER EACH TAX GUIDANCE SIGN, 5 CHARACTER TON	320	두	AR701900 REMOVE PIPE
DESCRIPTION UNIT QUANTI 1/C #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER TEXICAL REMOVE STAKE MOUNTED LIGHT ENGINEER'S FIELD OFFICE UNCLASSIFIED DOFFICE UNCLASSIFIED EXCAVATION SULT FENCE SILT FENCE SILT FENCE SILT FENCE SILT FENCE SITUMINOUS GRANULAR EMBANKMENT CCT CRUSHED AGG. BASE COURSE -4" STON BITUMINOUS PAVEMENT MILLING BITUMINOUS PAVEMENT TON 10" PCC PAVEMENT 10" PCC PAVEMENT 10" PCC PAVEMENT 10" PCC PAVEMENT 10" PCC TEST BATCH BITUMINOUS TACK COAT PAVEMENT MARKING - WATERBORNE PAVEMENT MARKING & REMOVAL PAVEMENT MARKING & REMOVAL PAVEMENT MARKING & REMOVAL SF TEMPORARY MARKING REMOVAL SF	320	F	
DESCRIPTION UNIT QUANTI 1/C #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER TEACH TEACH TAXI GUIDANCE SIGN, 5 CHARACTER TEACH TEACH TAXI GUIDANCE SIGN, 5 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER TEACH TAXI GUIDANCE SIGN, 5 CHARACTER TEACH TAXI GUIDANCE SIGN, 5 CHARACTER TAXI GUIDANCE SIGN, 6	1,365	SF	
DESCRIPTION UNIT QUANTI 1/C #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER TEACH TAXI GUIDANCE SIGN, 5 CHARACTER TEACH TAXI GUIDANCE SIGN, 5 CHARACTER TEACH TON	525	SF	$\overline{}$
DESCRIPTION I/C #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER EACH EACH EACH EACH EACH EACH EACH CY SY SILT FENCE ILS UNCLASSIFIED EXCAVATION SY SILT FENCE INLET PROTECTION FOROUS GRANULAR EMBANKMENT CY CRUSHED AGG. BASE COURSE - 4" BITUMINOUS SURFACE COURSE BITUMINOUS SURFACE COURSE BITUMINOUS SAVEMENT TON BITUMINOUS BASE COURSE BITUMINOUS TACK COAT POC PAVEMENT TON BITUMINOUS TACK COAT GAL PAVEMENT MARKING - WATERBORNE	2,570	SF	PAVEMENT MARKING - BLACK BORDE
DESCRIPTION UNIT QUANTI 1/C #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER TEACH TEAXI GUIDANCE SIGN, 5 CHARACTER TEACH TON SY BITUMINOUS BASE COURSE TON	1,800	SF	
DESCRIPTION UNIT QUANTI I/C #8 5KV UG CABLE I'P VC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER EACH REMOVE STAKE MOUNTED LIGHT EACH EACH CY SUNCLASSIFIED EXCAVATION SY SULT FENCE INLET PROTECTION POROUS GRANULAR EMBANKMENT CY SILT FENCE INLET PROTECTION POROUS GRANULAR EMBANKMENT CY BITUMINOUS SURFACE COURSE - 4" BITUMINOUS SURFACE COURSE BITUMINOUS PAVEMENT REMOVE & REPLACE BIT. PAVEMENT TON 10" PCC PAVEMENT TON 10" PCC PAVEMENT TON EACH CY REMOVE BASE COURSE BY BITUMINOUS BASE COURSE BY BOTON SY BITUMINOUS BASE COURSE BY BOTON BY BEACH CY CY CY CY CY CY CY CY CY	580	GAL	
DESCRIPTION I/C #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAX GUIDANCE SIGN, 1 CHARACTER TAX GUIDANCE SIGN, 3 CHARACTER TAX GUIDANCE SIGN, 3 CHARACTER TAX GUIDANCE SIGN, 5 CHARACTER TAX GUIDANCE SIGN, 5 CHARACTER EACH TAX GUIDANCE SIGN, 5 CHARACTER TAX GUIDANCE SIGN, 5 CHARACTER EACH TAX GUIDANCE SIGN, 5 CHARACTER TAX GUIDANCE SIGN, 5 CHARACTER EACH EACH EACH EACH EACH EACH EACH CCY SULLASSIFIED EXCAVATION SY SOIL STABILIZATION FABRIC SILT FENCE INLET PROTECTION POROUS GRANULAR EMBANKMENT CRUSHED AGG, BASE COURSE BITUMINOUS SURFACE COURSE BITUMINOUS PAVEMENT MILLING BITUMINOUS PAVEMENT MILLING BITUMINOUS BASE COURSE BITUMINOUS BASE COURSE TON BITUMINOUS BASE COURSE TON BITUMINOUS BASE COURSE TON BITUMINOUS BASE COURSE TON SY BITUMINOUS BASE COURSE TON BITUMINOUS BASE COURSE TON SY BITUMINOUS BASE COURSE TON SY BITUMINOUS BASE COURSE TON BITUMINOUS BASE COURSE TON SY BITUMINOUS BASE COURSE TON BITUMINOUS BASE COURSE TON BITUMINOUS BASE COURSE TON SY	1	EACH	
IVC #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAX GUIDANCE SIGN, 1 CHARACTER TAX GUIDANCE SIGN, 3 CHARACTER TAX GUIDANCE SIGN, 5 CHARACTER EACH EACH TAX GUIDANCE SIGN, 5 CHARACTER EACH TAX GUIDANCE SIGN, 5 CHARACTER EACH EACH TAX GUIDANCE SIGN, 5 CHARACTER EACH EACH TAX GUIDANCE SIGN, 5 CHARACTER EACH EACH EACH EACH EACH EACH EACH CHARACTER EACH EACH EACH EACH EACH EACH EACH EACH	4,770	YS	AR501510 10" PCC PAVEMENT
INC#8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY ITAM GUIDANCE SIGN, 1 CHARACTER TAM GUIDANCE SIGN, 3 CHARACTER TAM GUIDANCE SIGN, 5 CHARACTER TAM GUIDANCE SIGN	200	TON	
1/C #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACT	210	YS	
1/C #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER TAXI GUIDANCE SIGN, SPECIAL REMOVE STAKE MOUNTED LIGHT ENGINEER'S FIELD OFFICE LS UNCLASSIFIED EXCAVATION SOIL STABILIZATION FABRIC SILT FENCE INLET PROTECTION POROUS GRANULAR EMBANKMENT CRUSHED AGG. BASE COURSE - 4" SY BITUMINOUS SURFACE COURSE SY SITUMINOUS PAVEMENT MILLING SY SY SY	4,770	ΥS	
IVC #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER EACH TAXI GUIDANCE SIGN, 5 CHARACTER EACH TAXI GUIDANCE SIGN, 5 CHARACTER EACH EACH TAXI GUIDANCE SIGN, 5 CHARACTER EACH EACH TOXI GUIDANCE SIGN, 5 CHARACTER EACH EACH EACH EACH EACH EACH EACH EACH	2,220	YS	AR401650 BITUMINOUS PAVEMENT MILLING
INC #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER EACH TAXI GUIDANCE SIGN, 5 CHARACTER EACH TAXI GUIDANCE SIGN, 5 CHARACTER EACH EACH TOTAL GUIDANCE SIGN, 5 CHARACTER EACH TOTAL GUIDANCE SIGN, 5 CHARACTER EACH EACH EACH EACH EACH EACH EACH EACH	260	NOT	
DESCRIPTION UNIT QUANTI- 1/C #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER EACH TAXI GUIDANCE SIGN, 5 CHARACTER EACH TAXI GUIDANCE SIGN, 5 CHARACTER EACH EACH TAXI GUIDANCE SIGN, 5 CHARACTER EACH EACH TAXI GUIDANCE SIGN, 5 CHARACTER EACH EACH EACH EACH EACH EACH EACH EACH	4,835	ΥS	CRUSHED AGG. BASE COURSE -
INC #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER EACH EACH ENGINEER'S FIELD OFFICE ILS WOBILIZATION SY SOIL STABILIZATION FABRIC SY SILT FENCE INLET PROTECTION LF INLET PROTECTION LF EACH CY SY EACH EACH	1,780	СҮ	
DESCRIPTION 1/C #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER EACH EACH EACH EACH EACH EACH EACH EACH	8	EACH	AR156520 INLET PROTECTION
DESCRIPTION UNIT QUANTI 1/C #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER EACH TAXI GUIDANCE SIGN, 5 CHARACTER EACH TAXI GUIDANCE SIGN, 5 CHARACTER EACH ENGINEER'S FIELD OFFICE MOBILIZATION SY SOIL STABILIZATION SY SY	675	듀	
DESCRIPTION I/C #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER EACH	4,835	ΥS	
DESCRIPTION UNIT QUANTI: 1/C #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER EACH TAXI GUIDANCE SIGN, 5 CHARACTER EACH TAXI GUIDANCE SIGN, 5 CHARACTER EACH TAXI GUIDANCE SIGN, SPECIAL REMOVE STAKE MOUNTED LIGHT ENGINEER'S FIELD OFFICE MOBILIZATION LS UNCLASSIFIED EXCAVATION	220	ΥS	
DESCRIPTIONUNITQUANTITY1/C #8 5KV UG CABLELF2,22" PVC DUCT, DIRECT BURYLF1,9MITL - BASE MOUNTEDEACHEACHTAXI GUIDANCE SIGN, 1 CHARACTEREACHEACHTAXI GUIDANCE SIGN, 3 CHARACTEREACHEACHTAXI GUIDANCE SIGN, 5 CHARACTEREACHEACHTAXI GUIDANCE SIGN, SPECIALEACHEACHREMOVE STAKE MOUNTED LIGHTEACHEACHENGINEER'S FIELD OFFICELSMOBILIZATIONLS	2,580	СҮ	
DESCRIPTIONUNITQUANTITY1/C #8 5KV UG CABLELF2,22" PVC DUCT, DIRECT BURYLF2,2MITL - BASE MOUNTEDEACHEACHTAXI GUIDANCE SIGN, 1 CHARACTEREACHEACHTAXI GUIDANCE SIGN, 3 CHARACTEREACHEACHTAXI GUIDANCE SIGN, 5 CHARACTEREACHEACHTAXI GUIDANCE SIGN, 5 CHARACTEREACHEACHREMOVE STAKE MOUNTED LIGHTEACHEACHENGINEER'S FIELD OFFICELS		LS	$\overline{}$
DESCRIPTIONUNITQUANTITY1/C #8 5KV UG CABLELF2,22" PVC DUCT, DIRECT BURYLF2,2MITL - BASE MOUNTEDEACHEACHTAXI GUIDANCE SIGN, 1 CHARACTEREACHEACHTAXI GUIDANCE SIGN, 3 CHARACTEREACHEACHTAXI GUIDANCE SIGN, 5 CHARACTEREACHEACHTAXI GUIDANCE SIGN, SPECIALEACHEACHTREMOVE STAKE MOUNTED LIGHTEACHEACH		LS	
DESCRIPTIONUNITQUANTI:1/C #8 5KV UG CABLELF2" PVC DUCT, DIRECT BURYLFMITL - BASE MOUNTEDEACHTAXI GUIDANCE SIGN, 1 CHARACTEREACHTAXI GUIDANCE SIGN, 3 CHARACTEREACHTAXI GUIDANCE SIGN, 5 CHARACTEREACHTAXI GUIDANCE SIGN, 5 CHARACTEREACHTAXI GUIDANCE SIGN, 5 CHARACTEREACH	19	EACH	
DESCRIPTIONUNITQUANTI:1/C #8 5KV UG CABLELF2" PVC DUCT, DIRECT BURYLFMITL - BASE MOUNTEDEACHTAXI GUIDANCE SIGN, 1 CHARACTEREACHTAXI GUIDANCE SIGN, 3 CHARACTEREACHTAXI GUIDANCE SIGN, 5 CHARACTEREACH	ω	EACH	$\overline{}$
DESCRIPTIONUNITQUANTI:1/C #8 5KV UG CABLELF2" PVC DUCT, DIRECT BURYLFMITL - BASE MOUNTEDEACHTAXI GUIDANCE SIGN, 1 CHARACTEREACHTAXI GUIDANCE SIGN, 3 CHARACTEREACH	1	EACH	
DESCRIPTION 1/C #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY MITL - BASE MOUNTED TAXI GUIDANCE SIGN, 1 CHARACTER DIRECTION UNIT QUANTI: QUANTI: EACH EACH EACH	2	EACH	
DESCRIPTIONUNITQUANTI:1/C #8 5KV UG CABLELF2" PVC DUCT, DIRECT BURYLFMITL - BASE MOUNTEDEACH	2	EACH	
DESCRIPTION UNIT QUANTI: 1/C #8 5KV UG CABLE 2" PVC DUCT, DIRECT BURY LF	22	EACH	
DESCRIPTION UNIT QUANTI:	1,990	두	
DESCRIPTION	2,290	듀	1/C #8 5KV UG CABL
	QUANTITY	CN T	

PAO53 IL. CONTRACT: PA053
IL. LETTING ITEM: 11A
II. PROJECT: PWK-4181
A.I.P. PROJECT: 3-17-0018-B47 © Copyright CMT, Inc DESIGN BY:
DRAWN BY:
CHECKED BY: APPROVED BY:

04/20/ SURVEY BOOK # BOOK # NUMBER ILLINOIS PROJECT: PWK-4181 A.I.P. PROJECT: 3-17-0018-B47 CHICAGO EXECUTIVE AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22). CMT CRAWFORD, MURPHY & TILLY, INC. CONSULTING ENGINEERS License No. 184-000613 **REHAB RUNWAY 34 HOLD APRON** REVISIONS OF 21 ВА MLK JRO CHICAGO EXECUTIVE **SUMMARY OF QUANTITIES** DATE





E SUGGESTED SEQUENCE OF CONSTRUCTION SHOWN IS INTENDED TO ALLOW FOR T SUTRUCTION OF THE PROPOSED MAPROVEMENTS WHILE MAINTAINING ARCRAFT ACCES PHASING SHOWN IS A SUGGESTED SEQUENCE OF CONSTRUCTION ONLY. THIS SEG-IPHED HOWEVER, ALTERNATE STAGING PLANS MUST MAINTAIN ARPORT OPERATIONS THE AIRPORT MANAGER AND RESIDENT ENGINEER AND BE APPROVED BY THE DIVIS) FEDERAL AVAITON ADMINISTRATION. FOR THE ORDERLY
FOR THE ORDERLY
FOR ACCESS AT ALL TIMES.
HIS SEQUENCE MAY BE
ATIONS TO THE SATISFACTION
FOR DIVISION OF AERONAUTICS

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.

23.

- ARPORT MANAGER IN CONSULTATION WITH THE RESIDENT ENGINEER SHALL HAVE FINAL SAY IN THE COVAL OF THE CONSTRUCTION OPERATING SEQUENCE AS IT RELATES TO PEDESTRIAN, VEHICULAR AND RAFT SAFETY.
- 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 DISTUREDED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND THE AIRPORT MANAGER.
- CONTRACTOR SHALL KEEP ALL TRUCKS, EQUIPMENT AND MATERIALS OFF OF THE EXISTING TAXIWAYS, ONS AND RUNWAYS OUTSIDE OF THE PROJECT LIMITS EXCEPT AS SHOWN OR WITH THE PRIOR WISSION OF THE RESIDENT ENGINEER.
- WORK PERFORMED BY THE CONTRACTOR OUTSIDE OF DAYLIGHT HOURS SHALL BE DONE UNDER SUFFICIENT ARTHFOLM. LIGHTING TO ALLOW FOR PROPER CONSTRUCTION METHODS AND INSPECTIONS. LIGHT SHALL CONSIST OF MOVABLE POLE MOUNTED FLODDLIGHTS 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 RESIDENT ENGINEER AND SHALL NOT BE USED IF THEY AFFECT FLIGHT SAFETY. CONTRACTOR'S WORK HOURS SHALL BE IN ACCORDANCE WITH LOCAL ORDINANCES.
- 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.
- CONIRACTOR WILL BE REQUIRED TO HAVE A SWEEPER AVAILABLE FOR USE AT ALL TIMES, WHEN WE ARFIELD PAVEMENTS ARE UTILIZED AS HAUL ROADS BY THE CONTRACTOR, MATERIAL TRACKED THE PAVEMENT SHALL BE CONTINUALLY REMOVED WITH SAID SWEEPER, THIS SWEEPING SHALL NOT) FOR SEPERATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 10.
- PAYMENT FOR TRAFFIC CONTROL INCLUDING, BUT NOT LIMITED TO BARRICADES, SIGNING, RUNWAY CLOSED MARKERS, AIR OPERATIONS AREA (A.O.A.) LATHE AND RIBBON, ETC. SHALL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED MICIDENTAL TO THE CONTRACT. BARRICADES AT 10-FOOT CENTERS WITH ONE GRANGE FLAG (24" x 24") BETWEEN EACH SET OF BARRICADES AT 4" HIGH ORANGE SNOW FENCE SECURELY ATTACHED TO FACH BARRICADE SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, BARRICADES SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE SUGNIEER, BARRICADES SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE SUGNIEER, BARRICADES SHALL BE PLACED AT COLOTIONS SHOWN ON THE PLANS OR ARRICADES SHALL HAVE A FLASHING RED LIGHT AND CONFORM TO INDICATOR'S TO STANDARD 701901-02, TYPE II. BARRICADE SOLOTION WILL BE REQUIRED PROPER TO ACCESS TO THE AOA, BY CONTRACTOR'S CONTRACTOR SHALL BE ATTACHED TO THE BARRICADES. EACH BARRICADE LOCATION WHALL BE ATTACHED TO THE BARRICADES SHALL BE CONSIGERED INCIDENTAL TO THE CONTRACT. IN CONJUNCTION WITH JOUT TYPE II BARRICADES, THE CONTRACTOR SHALL SUPPLY AND USE AS DIRECTED BY THE AIRPORT, REFLECTIVE LOW PROFILE BARRIC TYPE BARRICADES. ALL BARRICADES SHALL BE PLACED OUTSIDE OF ACTIVE SAFETY AREAS. MATERIALS REMOVED FROM THE PROJECT WILL BE DISPOSED OF OFF AIRPORT PROPERTY, UNLESS NOTED OTHERWISE.

=

- 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 BE ISSUED.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL CONSTRUCTION ACCESS GATES DURING NOW WORKING HOURS. THE CONTRACTOR SHALL PROVIDE A SIGN AT THE ACCESS "AUTHORIZED PERSONNEL ONLY". THE CONTRACTOR SHALL PROVIDE AND LOCK THE ACCESS IL LEAVING THE SITE. THROUGHOUT THE DURATION OF THE CONTRACT, ANY DAMAGES TO THE ACCESS GATE OR FENCING ADJACENT TO THE PROJECT SHALL BE REPAIRED BY THE CONTRACTS CONTRACTOR THE CONTRACTOR'S ACCESS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. 3 GATES CLOSED
 CESS GATE SAYING
 CESS GATE UPON
 O THE ACCESS ROAD,
 CONTRACTOR TO THE
 CCESS AND SECURITY

32.

- CONTRACTOR WILL BE REQUIRED TO PUT AIRPORT FLAGS AND AT ALL TIMES DURING CONSTRUCTION. SEE FLAG DETAIL, THIS HAVE BEACON LIGHTS SHEET.
- IN THE CASE OF AN EMERGENCY, CONTRACTOR SHALL NOTIFY AIRPORT MANAGER AND THE RESIDENT ENGINEER IMMEDIATELY.

33.

15.

- 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 WHICH HAS A MAXIMUM HEIGHT OF $25\ \text{FEET}$ IN A DUMP POSITION.
- <u>.</u> IF RUNWAY NUMERALS ARE PRESENT DURING CONSTRUCTION THEN RUNWAY MARKER OVER NUMERALS AS DETAILED, OTHERWISE PLACE ENDS OF RUNWAY AS DETAILED. CONTRACTOR SHALL PLACE CLOSED RUNWAY CLOSED MARKER IN TURF ₹
- AGO EXECUTIVE AIRPORT WILL BE IN OPERATION DURING THE CONSTRUCTION OF THIS PROJECT. DURINGTON OF WORK WITH THE AIRPORT IS MANDATORY SO AS TO MINIMIZE IMPACTS ON AIRPORT
- 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, COLUNTY ROADS OR CITY STREETS) WITH THE APPORPRIATE 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 OF DOMESTIC OF BING USED AS A HAUL ROUTE. THE BEFORE AND AFTER CONDITION OF ON-SITE HAUL ROUTES SHALL BE JOINTY INSPECTED AND DETERMINED BY THE CONTRACTOR AND THE ENGINEER FROOR DETERMINED BY THE CONTRACTOR AND THE ENGINEER FROOR DETERMINED, FOR ACCESS FOINTS ON THE AIRPORT WILL BE THE CONTRACTOR'S TOTAL RESPONSIBILITY AND SHALL BE APPROVED BY THE ENGINEER ROORS TO THE WORK, ALL ON-SITE ACCESS ROADS TO AIRPORT FACILITIES SHALL REMAIN OPEN AND ANNIANNED AT ALL TIMES.
- 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.

- COORDINATION MEETINGS THE CONTRACTOR SHALL CONDUCT WEEKLY COORDINATION MEETINGS TO DISCUSS WORK AREAS AND SCHEDULING, ETC. WITH THE RESIDENT 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 SUBSECUENT 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.
- at all
- DRAINAGE MODIFICATIONS SHALL BE SEQUENCED TO PROVIDE POSITIVE DRAINAGE ADDITIONAL COST TO THE CONTRACT.

26. 25.

- CONTRACTOR PERSONNEL, VEHICLES, EQUIPMENT AND BARRICADES SHALL NOT BE ALLOWED WITHIN THE TAXIWAY OBJECT FREE AREA (TOFA) OF ACTIVE TAXIWAYS AND THE RUNWAY SAFETY AREA (RSA) OF ACTIVE RUNWAYS.
- 27.
- 28. ALL EXISTING TAXIMAY AND RUNWAY ARFIELD 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 RESIDENT ENGINEER, ANY CABLES DAMAGED BY THE CONTRACTOR SHALL BE IMMEDIATELY REPLAIRED 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 STANDARD SPECIFICATIONS AND THE SPECKAL PROVISIONS FOR SPECIFIC REQUIREMENTS. THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAVE BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER OR 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 REPRESSENTATIVE 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 MAKE ARRANGEMENTS FOR DETAILED INFORMATION AND ASSISTANCE IN LOCATING UTILITY IN UNEXPECTED UNLEYPE CONTRACTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY, THE RESIDENT ENGINEER AND THE ARROUND MADIAGER, ANY SUCH MANUS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S ONSTRUCTION, SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND THE ARROUND AND ARROOT MANAGER. 29.
- O. ALL AIRFIELD LIGHTING AND LIGHTIN ADJACENT TO THE CONTRACTORS WITH TO THE DEPARTURE FROM THE AIR SYSTEMS DUE TO THE ACITS OF CC SHALL BE REPAIRED IMMEDIATELY. HTING GUIDANCE SYSTEMS (NAVAIDS) LOCATED WITHIN AND IMMEDIATELY IS WORK ZONE SHALL BE CHECKED FOR OPERATIONAL CONDITION PRIOR AIRPORT WITH THE AIRPORT MANAGER. ANY DEFECIENCIES IN THESE CONTRACTOR OR HIS SUBCONTRACTORS, SUPPLIERS OR CONSULTANTS
- NGE CONES SHALL BE PLACED AT 25' CENTERS ALONG THE PAVEMENT EDGE DURING CONCRETE RING OPERATIONS OF THE CLOSURE LANES TO PREVENT VEHICLES FROM ENTERING PLASTIC CRETE. IN THE EVENT A VEHICLE SUTERS THE CONCRETE BEFORE A MINIMUM COMPRESSIVE INGTH OF 3,500 PSI HAS BEEN OBTAINED, SAID PAVEMENT SHALL BE REMOVED AND REPLACED A CONTRACTOR'S EXPENSE.

CONTRACTOR CROSSING RUNWAY AND TAXIWAY AIR OPERATIONS AREA (A.O.A.)

- 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 CONTRACT 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 GUARDES. THE CONTRACTOR SHALL BE ONLIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACT SHALL BE RESPONSIBLE FOR PAYMENT OF MUNICIPAL FINES (\$500 PER OCCUPIENCE) DUE TO AIRFIELD INCURSIONS BY HIS EMPLOYEES, SUBCONTRACTORS, SUPPLIERS,
- ANY PAVEMENT 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. PAVEMENT 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.
- 34. WORK WITHIN THE A.O.A. SHALL BE EXPEDITED. ANY DROP OFF SHALL BE ADEQUATELY LIGHTED, SIGNED AND BARRICADED. NO MATERIAL SHALL BE STOCKPILED WITHIN THE A.O.A. SHOULD IT BE NECESSARY FOR THE CONTRACTOR TO TEMPORARILY BELOCATE EQUIPMENT TO ALLOW AIRCRAFT TO PASS, THEY SHALL DO SO AT EXTRA COST TO THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT MANAGER TEN (10) WORKING DAYS IN ADVANCE OF ANY PLANNED CONSTRUCTION WITHIN THESE LIMITS. ₽

MUNICIPALITIES GENERAL NOTES

- ON PLANS ARE IN 1929 DATUM. SUBTRACT 0.24 FEET
- CONTRACTORS AND SUBCONTRACTORS TO BE REGISTERED WITH BOTH THE VILLAGE CITY OF PROSPECT HEIGHTS. OF WHEELING AND
- M SEWERS ON AIRPORT. THE AIRPORT SITE ARE OWNED, OPERATED AND MAINTAINED В
- THE CONTRACTOR SHALL ANY GRADING ACTIVITIES . SECURE A GRADING PERMIT COMMENCING.
- THE CONTRACTOR SHALL NOTIFY THE OF BASE MATERIAL PRIOR TO PAVING VILLAGE OF WHEELING OPERATIONS. (847.459.2600) TO WITNESS A PROOF ROLL
- THE CONTRACTOR SHALL CONTACT STEVE SKIBER AT THE OBTAIN BUILDING DEMOLITION PERMITS. THE CITY SHALL EOPERATIONS FOR INSPECTION.

UNDERGROUND CABLES ARE : F AND

AIRCRAFT APPROACH CATEGORY: DESIGN AIRPORT GROUP: III

o

GROUND CONTROL FREQUENCY: 121.7
AIR CONTROL FREQUENCY: 119.9
MAXIMUM ANTICIPATED HEIGHT
OF CONSTRUCTION EQUIPMENT: 25'

IL. PROJECT: **PWK-4181**A.I.P. PROJECT: **3-17-0018-B47**

PAO53

CONTRACT: PA053 LETTING ITEM: 11A

STANDARD SECTION OF UNITER CONTRACTORS (SEE

STANDARD SECTION 30-05). THE PRIME
CONTRACTOR WILL BE TONSSIBLE TO CODEDINATE
CONSTRUCTION ACTIVITIES AND ACCESS BETWEEN ALL
ON-SITE CONTRACTORS SUBCONTRACTORS. IT IS
ANTICIPATED THE FOLLOWING PROJECTS MAY BE UNDER
CONSTRUCTION CONCURRENITY WITH THIS PROJECT. NO
ADDITIONAL COMPENSATION SHALL BE CONSIDERED FOR ANY
EFFORTS TO COORDINATE AND ACCESS THE WORK SITE DUE
TO ADJACENT CONSTRUCTION

IN THE EVENT THE CONTRACTOR PROPOSES TO UTILIZE AND AN-SITE CONCRETE BATCH PLANT, LOCATION TO BE COORDINATED WITH RESIDENT ENGINEER AND ACTINIC AIRPORT MANAGER TO ALLOW FOR APPROPRIATE AIRSPACE CLEARANCE. THE CONTRACTOR WILL BE RESPONSIBLE TO SUBMIT FAA FORM 7466 FOR AIRSPACE APPROVAL THE RESIDENT ENGINEER WILL PROVIDE BASE AIRPORT INFORMATION FOR THE CONTRACTOR'S USE.

POINT "A" CLOSEST CONSTRUCTION
POINT TO RUNWAY 16,34
ELEVATION: 642.51
LATITUDE: 42'06'39.12" (NAD83)
LONGITUDE: 87'53'58.51" (NAD83)

NUMBER

₽

DATE

URVEY

BOOK # BOOK

REVISIONS

POINT "B" CLOSEST CONSTRUCTION POINT TO RUNWAY 12/30 ELEVATION: 637, 86 LATITUDE: 42'06'42'.28" (NAD83) LONGITUDE: 87'53'54.73" (NAD83)

POINT "D" ELEVATION: 638.34 LATITUDE: 42'06'38.94" (NAD83) LONGITUDE: 87'53'49.21" (NAD83)

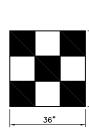
POINT "C" ELEVATION: 639.91 LATITUDE: 42'06'36.34" (NAD83) LONGITUDE: 87'53'45.41" (NAD83)

A 품

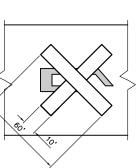
S BAR

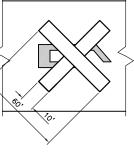
R IS EQUAL TO 2" SCALE (34X22).

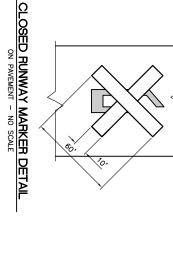
RUNWAY 34 EMAS SOVEREIGN DEVELOPMENT IN SE QUADRANT CONSTRUCT AND OVERLAY TAXIWAY ECHO AND ATLANTIC DEVELOPMENT IN NW QUADRANT BRAVO

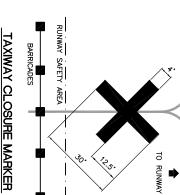


CONSTRUCTION EQUIPMENT AND TRUCK SIGNAL FLAG









CLOSED RUNWAY MARKER DETAIL NOT ES S

NO SCALE

- BY THE ENGINEER.
- SHOWN ON THE PLANS OR

S

- COST OF FURNISHING, INSTALLING, MAINTAINING AND REMOVING MARKERS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. RUNWAY NUMERALS AS SHOWN
- DURING VARIOUS PHASES OF WORK, IT WILL BE NECESSARY TO TRAFFIC ON A TEMPORARY BASIS AS COORDINATED WITH THE A PERSONNEL. THE CONTRACTOR SHALL MARK THE RUNWAYS THE LOW GROSS AT THE LOCATION AND DIMENSIONS DETAILED OF GROSSES ARE SHOWN ON THE RESPECTIVE RUNWAYS ACCORDING OF WORK AS DELINEATED IN THE SUGGESTED SEQUENCE OF CO Y TO CLOSE RUNWAYS TO AIR
 HE AIRPORT AND TOWER
 TO BE CLOSED BY PLACING A
 ED ON THIS SHEET. THE
 BRDING TO THE VARIOUS PHASES
 F CONSTRUCTION.

Copyright CMT, Inc

₽ IMITATIONS ON CONSTRUCTION WITHIN RUNV TAXIWAY OBJECT FREE AREA (TOFA) ₹ SAFETY AREA (RSA)

CMT

CRAWFORD, MURPHY & TILLY, INC

CONSULTING ENGINEERS License No. 184-000613

CHICAGO EXECUTIVE

RUNWAYS:

THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND ARPORT MANAGER TEN (10) WORKING DAYS IN ADVANCE OF ANY PLANNED CONSTRUCTION WITHIN THESE LIMITS. WORK SHALL BE EXEDDITED IN THESE AREAS SHALL BE SMOOTHLY GRADED TO ALLOW THE RUNWAYS TO BE REOPENED. AT LEAST ONE OF THE RUNWAYS SHALL REVAIN IN OPERATION AT ALL MIES, IF DECRESSARY STEEL LAYERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR TO COVER ANY OPEN TRENCHES OR EXCANATION WITHIN THE RSA IF DURING RUNWAY CLOSURE AN MEN AND EQUIPMENT. REFERENCE TABLE ON PREVIOUS SHEET FOR SAFETY AREA WIDTHS.

DRAWN BY:

SIGN BY:

HECKED BY:

Κ

Ъ

BY:

LL REQUIRE A TAXIWAY CLOSURE. WORK WITHIN BE ADEQUATELY LIGHTED, SICKED AND ALTER TOPA. SHOULD IT BE NECESSARY FOR TO ALLOW AIRCRAFT TO PASS, THEY SHALL DO OR SHALL NOTIFY THE RESIDENT ENGINEER AND DAY PLANNED CONSTRUCTION WITHIN THESE JECT FREE AREA WIDTHS. NO DROP-OFFS OR Y SAFETY AREAS OF OPEN TAXIWAYS.

.<u>P</u>

No:

ILLINOIS PROJECT: PWK-4181
I.P. PROJECT: 3-17-0018-B47

유

NOTE — ALL PHASES ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER AIRFORT ELECTRICAL CABLES SHALL REMAIN IN SERVICE UNTIL REPLACED AS ACCEPTABLE TO THE RESDIENT EIGHNEER, ALL TEMPORARY CABLING AND SPLICING NECESSARY TO KEEP THE CIRCUITS IN OPERATION SHALL BE CONSIDERED INCIDENTAL TO CONTRACT. **CHICAGO EXECUTIVE AIRPORT** WHEELING/PROSPECT HEIGHTS, ILLINOIS

REHAB RUNWAY 34 HOLD APRON

SEQUENCE OF CONSTRUCTION

GENERAL NOTES AND DETAILS

© _ _ EXISTING MANHOLE/INLET/SLOPE BOX NEW GRADING LIMITS NEW SILT FENCE NEW SEED AND MULCHING NEW INLET NEW INLET PROTECTION/SEDIMENT TRAP

A.I.P. PROJECT: 3-17-0018-B47

PROJECT: PWK-4181

CONTRACT: PA053 LETTING ITEM: 11A

NUMBER

뫅

DATE

BOOK # BOOK

REVISIONS

Olix America 0 0

RUNWAY 34 HOLD APRON 25' (TYPICAL)-RUNWAY 34 HOLD APRON **RUNWAY 12/30** TAXIWAY DELTA 0 L 20° (TYPICAL) 0 PASMAN ALPHA PAO53

4 I

FULL

IS EQUAL TO 2" SCALE (34X22).

OTHER REPORTS. STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PLAN AS REFERENCED DOCUMENTS:

- 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 CONTROL SYSTEMS.
- 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.

2

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.

CONTROLS-EROSION CONTROLS AND SEDIMENT CONTROL

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIMEFRAME SPECIFIED HEREIN AND AS DRECTED BY THE ENCINEER, THEREFORE MINMIZING THE AMOUNT OF AREA SUSCEPTIBLE. TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING, WHICH WILL BE 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 ENGINEER AND AS SHOWN ON THE PLANS.

THIS PROJECT CONSISTS OF REHABILITATION OF THE RUNWAY 34 HOLD APRON AT THE CHICAGO EXECUTIVE ARPORT. THE PROJECT INCLUDES EARTH EXCAVATION, ELECTRICAL WORK, VARIOUS PAVEMENT ITEMS AND OTHER MISCELLANIDUS CONSTRUCTION WORK.

FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH WILL DISTURB SOILS 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 AND INLET PROTECTION.

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

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 EXPECTED WEATHER CONDITIONS.

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.

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLANCE WITH NPDES.

STORM WATER POLLUTION PREVENTION PLAN

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 STABILIZATION AND MULCHING AS DIRECTED BY THE KINNEER. STABILIZATION MEASURESS SHALL BE INITIATED AS SOON AS PRACTICABLE 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.
- 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 ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES CONSTRUCTION SITE ACTIVITIES. ILR10, FROM

Ņ

2

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 LIMIS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
- EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED, AT THE CONTRACTORS EXPENSE, IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS.
- AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER:

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE BE DISTURBED BY EXCAVATION, GRADING AND OTHER ACTIVITIES.

1.60

ACRES

OF WHICH

0.30

ACRES

Ĭ

Ņ

2

PLACEMENT OF PERMANENT EROSION CONTROL, SUCH AS SEEDING AND MULCHING.

ELECTRICAL INSTALLATION, SHOULDER ADJUSTMENTS, MISCELLANEOUS ITEMS.

FINAL

GRADING

AS

NEEDED

AND

OTHER

PAVEMENT CONSTRUCTION.

EXCAVATION AND EMBANKMENT WILL BE COMPLETED WITHIN THE PROJECT LIMITS TO THE PROPOSED PAVEMENT IMPROVEMENTS.

GRADE OUT FOR

PAVEMENT MILLING, PAVEMENT REMOVAL AND REPLACEMENT.

- PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE
- èω BUILD NECESSARY EMBANKMENT AT CULVERT/STORM SEWER LOCATIONS AND THEN EXCAVATE PLACE PIPE. CONSTRUCT DITCHES AND PROVIDE TEMPORARY EROSION CONTROL SYSTEMS.
- .D EXCAVATED AREAS AND EMBANKMENT AREAS SHALL BE PERMANENTLY SEEDED 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 NECESSAY MEASURES SHALL BE TAKEN TO CONTAIN, WATER QUALITY REGULATIONS. LEAKING EQUIPMENT REMOVED FROM THE SITE. NOTIFIED ONLY AT DESIGNATED LOCATIONS.

 ANY FUEL OR POLLUTANT IN ACCORDANCE WITH OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED
- THE RESIDENT ENGINEER SHALL INSPECT THE INSPECTION SHALL ALSO BE DONE WEEKLY AND SNOWFALL AND DURING WINTER SHUTDOWN PERIOD. PROJECT DAILY DURING CONSTRUCTION AFTER RAINS OF 1/2 OR GREATER OR ACTIVITIES. EQUIVALENT
- SEDIMENT COLLECTED DURING CONSTRUCTION OF SHALL BE DISPOSED OF ON SITE ON A REGULAR THIS MAINTENANCE SHALL BE INCLUDED IN THE EROSION CONTROL ITEMS. THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS BASIS AS DIRECTED BY THE ENGINEER. THE COST OF UNIT BID PRICE FOR UNCLASSIFIED EXCAVATION AND

Copyright CMT, In

CRAWFORD, MURPHY & TILLY, INC

CONSULTING ENGINEERS

CHICAGO EXECUTIVE

6

'n

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

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING:

TEMPORARY EROSION CONTROL SYSTEMS SHALL I PERMANENT EROSION CONTROL IS IN PLACE AND ARE SEEDED AND ESTABLISHED. BE LEFT IN PLACE WITH PROPER MAINTENANCE WORKING PROPERLY AND ALL PROPOSED TURF

CMT

ONCE PERMANENT EROSION CONTROL SYSTEMS ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOV VED, S PROPOSED CLEANED UP, IN THE PLANS AND DISTURBED ARE TURF FUNCTIONAL RESEEDED. AND

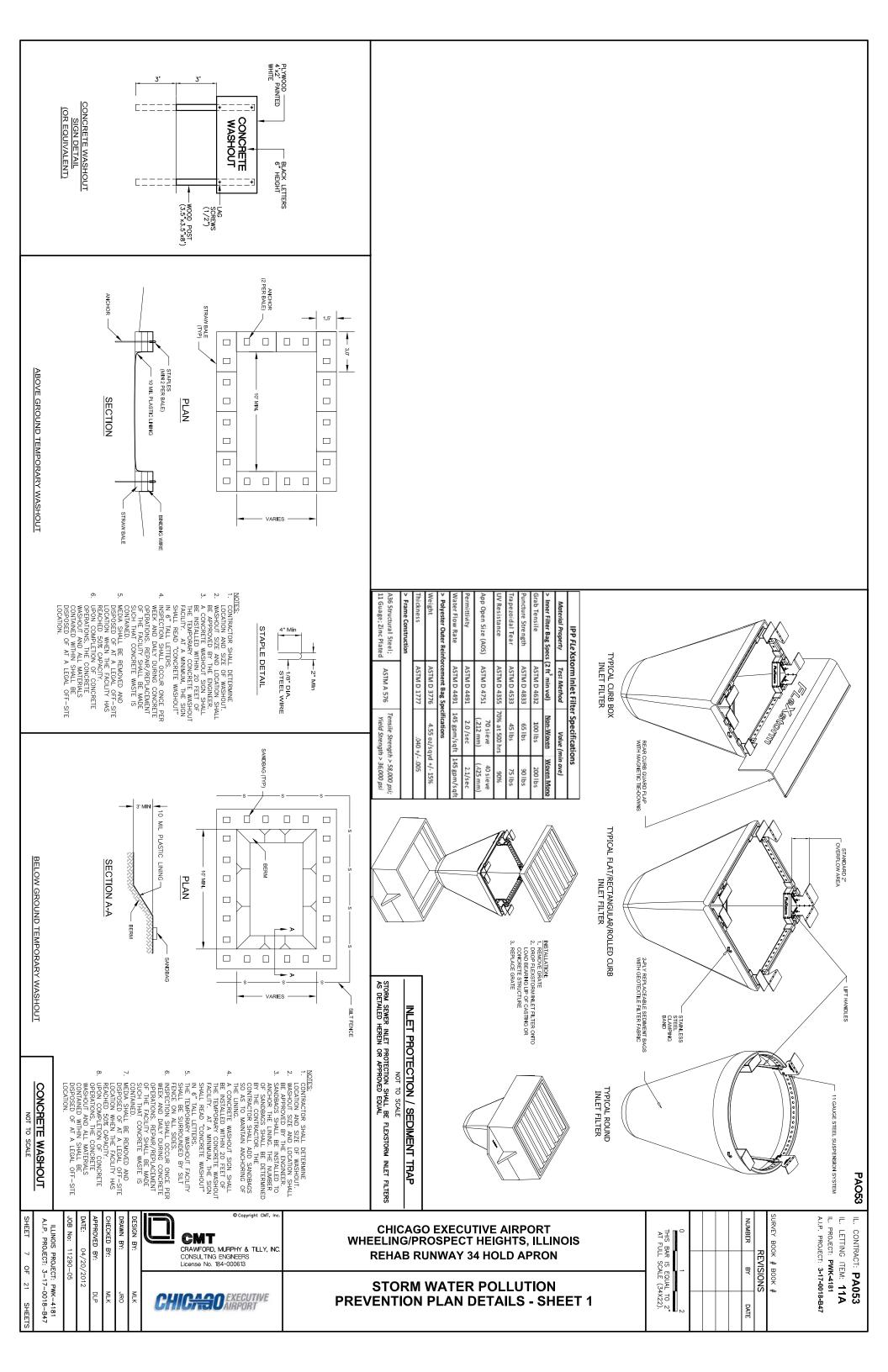
2

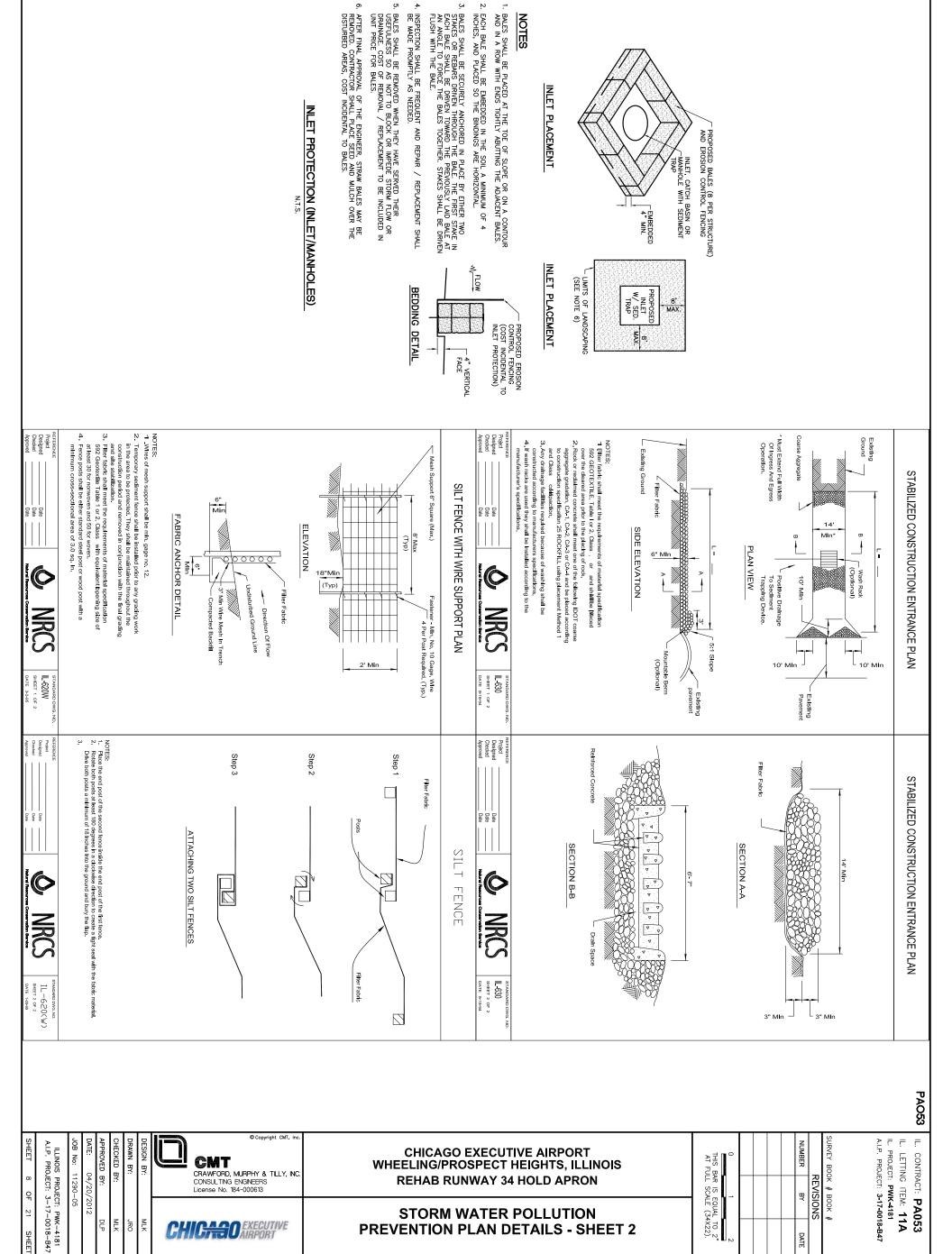
ONSTRUCTION IS COMPLETE AFTER FINAL ACCEPTANCE UP TO THIS DATE WILL BE REQUIRED BY THE CONTRACT BY THE ILLINOIS DIVISION OF AERONAUTICS.)R. MAINTENA

> **CHICAGO EXECUTIVE AIRPORT** WHEELING/PROSPECT HEIGHTS, ILLINOIS **REHAB RUNWAY 34 HOLD APRON**

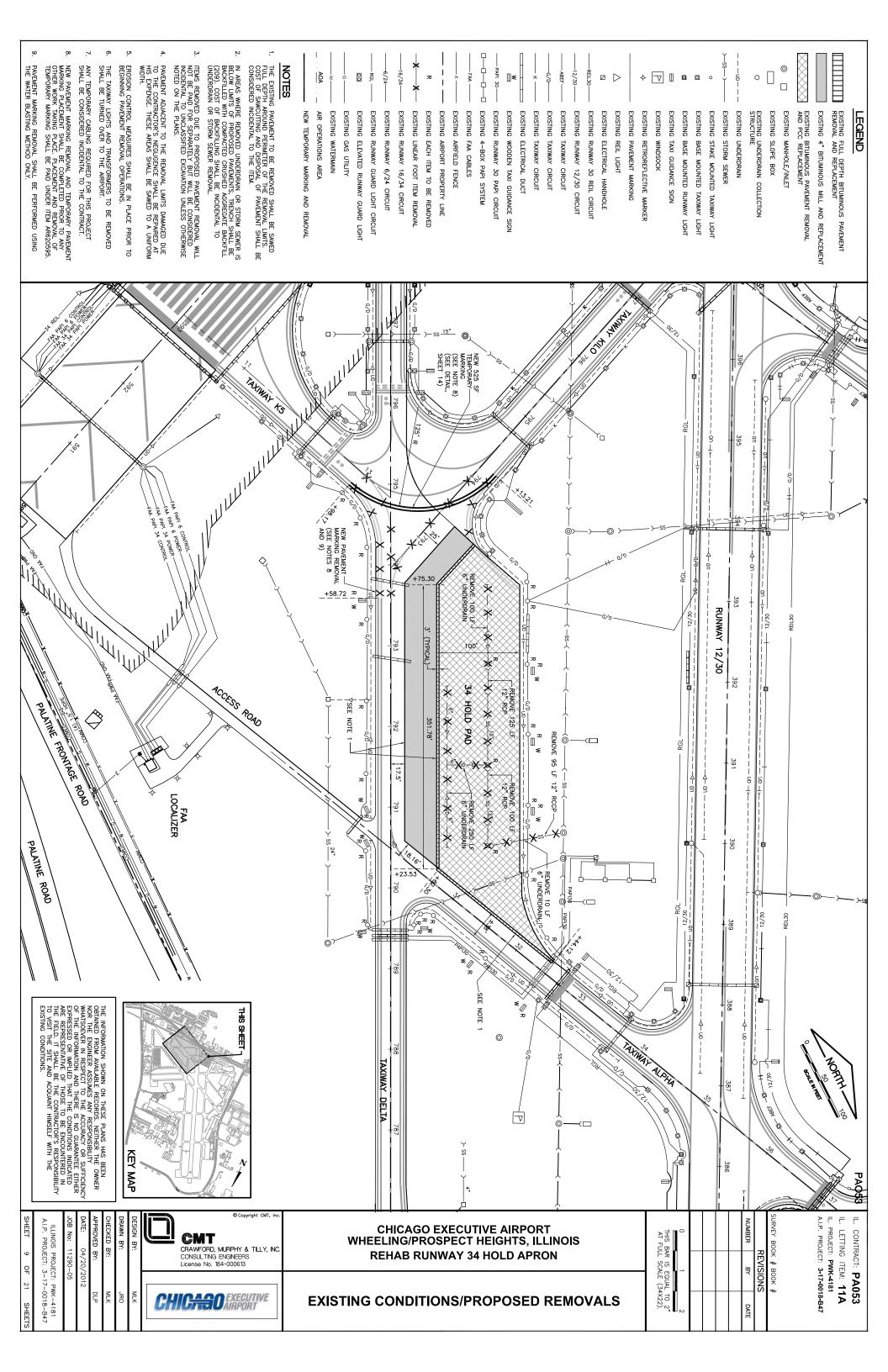
STORM WATER POLLUTION PREVENTION **PLAN AND NOTES**

						C	
SHEET	ILLINOI A.I.P. PR	JOB No:	DATE:	APPROVED BY:	CHECKED BY:	DRAWN BY:	DESIGN BY:
6	S PR	1129	04/:	BY:	BY:	Υ.	Ϋ́
OF	OJECT T: 3—	11290-05	04/20/2012				
OF 21	: PWI	Oi)12		~	ے	~
SHEETS	ILLINOIS PROJECT: PWK-4181 A.I.P. PROJECT: 3-17-0018-B47			DLP	MLK	JRO	MLK





DATE



1/2" (TYP.) € TAXIWAY D 122.5 PITCH (VARIES) (I) 8 0 12"

SECTION A-A 34 HOLD APRON (REMOVALS)

NOT TO SCALE

34 HOLD APRON (IMPROVEMENTS) SECTION A-A

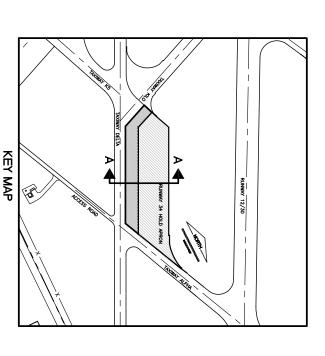
(T)

(N)

(z) 0

(7)

(R)



EGEND.

EXISTING 2" BITUMINOUS SURF.
EXISTING 6-1/2" BITUMINOUS
EXISTING GRANULAR BASE
EXISTING SUBGRADE ACE COURSE (401)
BASE COURSE (403)

(Þ)

EXISTING 2" BITUMINOUS SURFACE COURSE (401)
EXISTING 6" BITUMINOUS BASE COURSE (403)
EXISTING 5" CRUSHED AGGREGATE BASE COURSE (209)
EXISTING 11" SUBBASE COURSE (154)

(B)

- EXISTING GROUNDLINE
- EXISTING UNDERDRAIN NEW 4" BITUMINOUS PAVEMENT
- NEW REMOVE AND REPLACE BITUMINOUS PAVEMENT +/-8" (AR401910) MILLING (AR401650)
- NEW UNCLASSIFIED EXCAVATION 18" (AR152410)

NEW BITUMINOUS PAVEMENT REMOVAL +/- 8" (AR401900)

(x) (-) (x) (x)

- NEW 2" BITUMINOUS SURFACE COURSE (AR401610)
 NEW 2" BITUMINOUS BASE COURSE (AR403610)
- NEW BITUMINOUS TACK COAT (AR603510)
- NEW 2" BITUMINOUS SURFACE COURSE (401)
 NEW 6" BITUMINOUS BASE COURSE (403)
 NEW BITUMINOUS PRIME/TACK COAT BETWEEN EACH LIFT (602/603)
 SHALL BE PAID FOR AS AR401910 NEW SOIL STABILIZATION FABRIC (AR152540)
- NEW 12" POROUS GRANULAR EMBANKMENT (AR208515) NEW 4" CRUSHED AGGREGATE BASE COURSE (AR209604)
- NEW 10" PCC PAVEMENT (AR501510) NEW TIE BAR (501)
- NEW DOWEL BAR (501)

NEW SHOULDER ADJUSTMENT

1/2" (TYP.)

€ TAXIWAY D

122.5

100,

12,

20'

5% 1.5% 10 3%

PITCH (VARIES)

- IMITS OF SEEDING AND MULCHING (901 AND 908) AR152480)
- NEW STORM SEWER (701) EXISTING STORM SEWER/UNDERDRAIN TO BE REMOVED (701/705)

NEW 6" PERFORATED PVC UNDERDRAIN (705)

CHICAGO EXECUTIVE AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOI REHAB RUNWAY 34 HOLD APRON

ELING/PROSPECT HEIGHTS, ILLINOIS
REHAB RUNWAY 34 HOLD APRON

O THIS BA AT FUL			NUMBER		SURVEY BOO
0 1 2 THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).			ВҮ	REVISIONS	SURVEY BOOK # BOOK #
2 TO 2" \$X22).			DATE		+

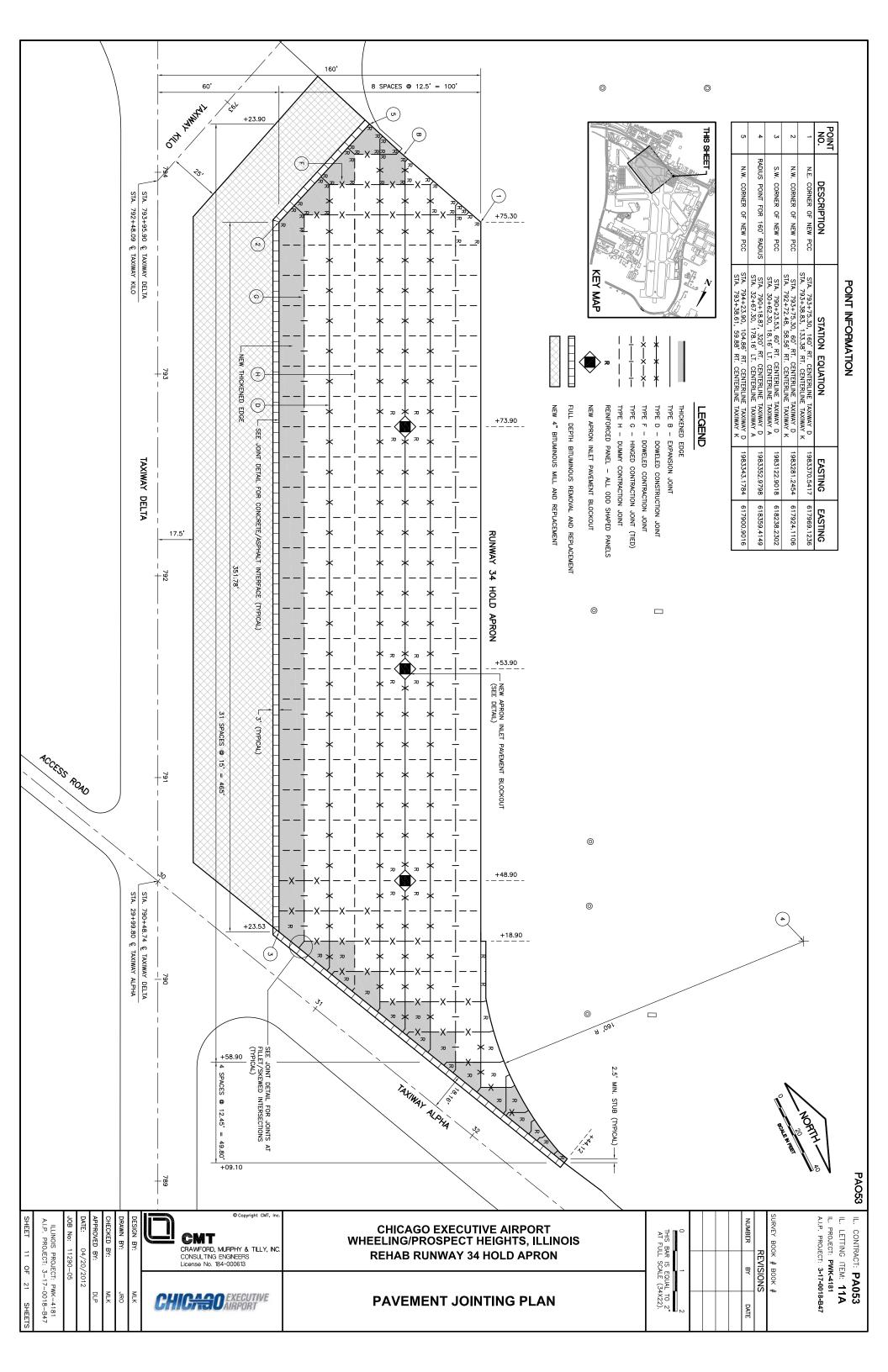
SHEET 10 OF	ILLINOIS PROJECT: 3-	JOB No: 11290-05	DATE: 04/20/2012	APPROVED BY:	CHECKED BY:	DRAWN BY:	DESIGN BY:	CAWFORD, MURPHY & TILLY, INC. CONSULTING ENGINEERS License No. 184-000613
· 21 SHEETS	ECT: PWK-4181 3-17-0018-B47	05	2012	DLP	MLK	JRO	MLK	CHICAGO EXECUTIVE

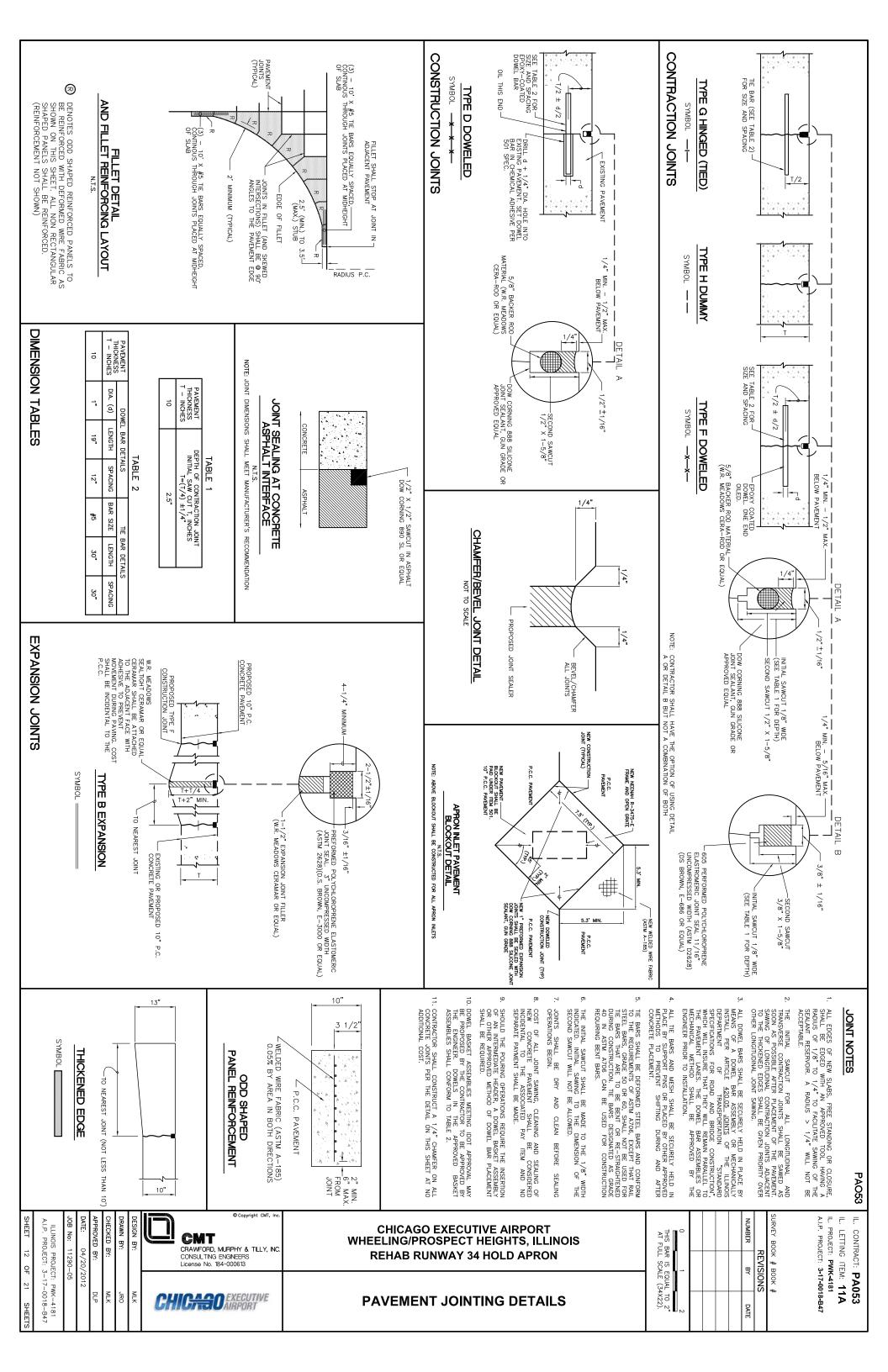
TYPICAL SECTIONS

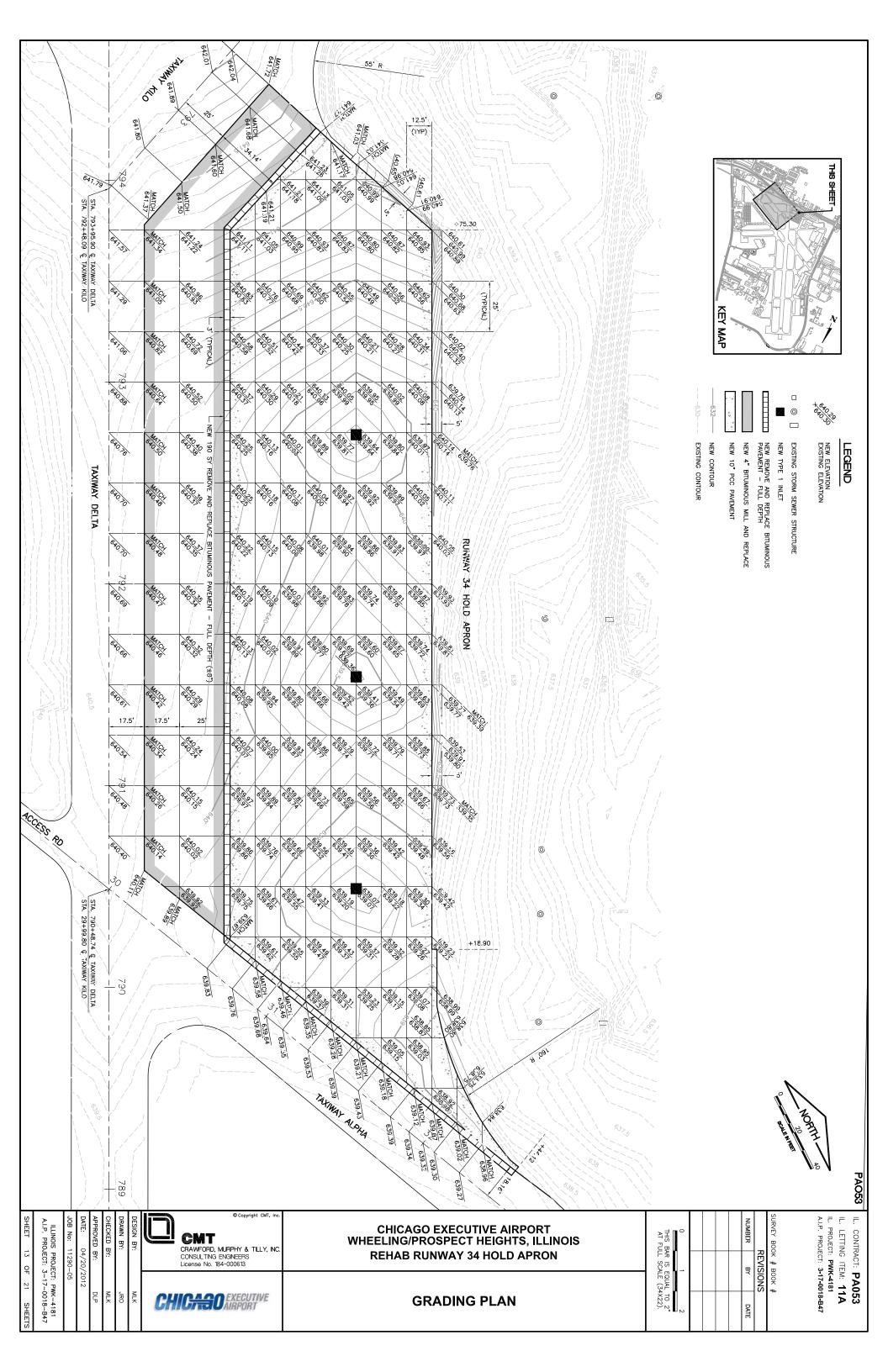
PAO53 IL. LETTING ITEM: 11A

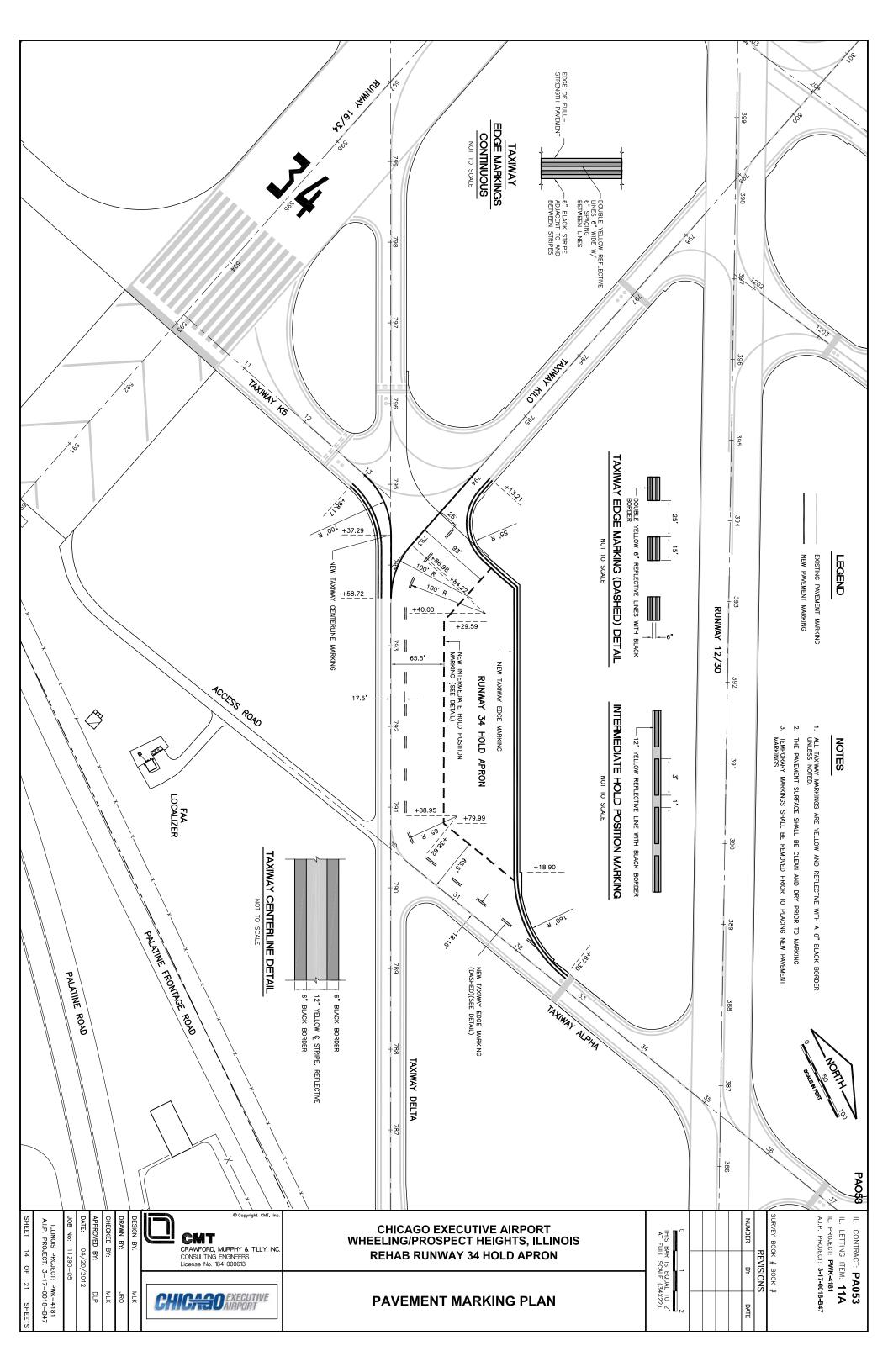
IL. PROJECT: PWK-4181

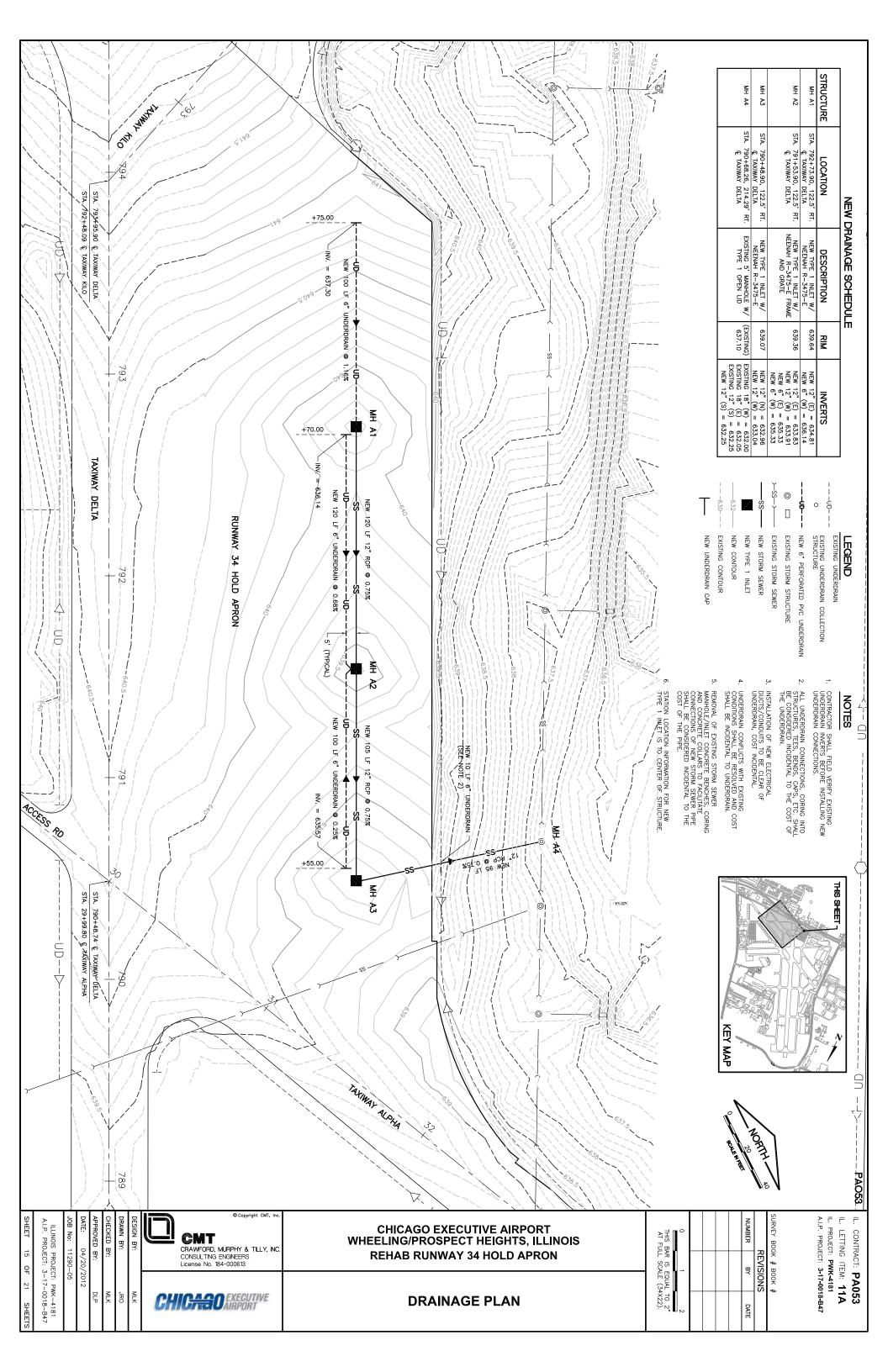
A.I.P. PROJECT: 3-17-0018-B47 IL. CONTRACT: PA053







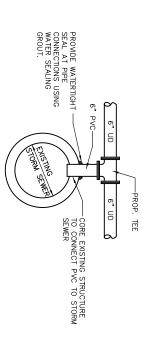


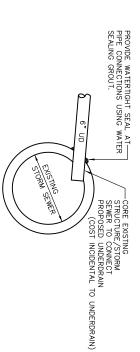


#3 U-SHAPED-REINFORCING BAR (TYP) Φ SECTION A-A NOTES Ą 24"ø (MAX.) PLAN THE 6" UNDERDRAIN SHALL BE INSTALLED AFTER THE SUBGRADE IS COMPACTED. THE SPOILS FROM THE 6" UNDERDRAIN CONSTRUCTION SHALL BE REMOVED DAILY FROM THE SURFACE OF THE CRUSHED AGGREGATE BASE. PROPOSED CA-7 BACKFILL (705) (INCIDENTAL TO UNDERDRAIN) PROPOSED TRENCH FABRIC ENVELOPE (INCIDENTAL TO UNDERDRAIN) 12" FABRIC OVERLAP (MIN.) -UNDERDRAIN DETAIL - PAVED AREAS NOT TO SCALE PROP. 6" PERFORATED PIPE (705) 1" DIA. GALYANIZED IRON BAR LADDER RUNGS 12" TO 15' O.C. TO BE INSTALLED WHEN Y IS GREATER THAN 5. COST TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR INLET NEENAH R-3475-E FRAME & GRATE OR APPROVED EQUAL -PCC CONTOURED FLOWLINE , L 4 1/4" -REINFORCING BAR TYPE A PROPOSED PAVEMENT PROPOSED CRUSHED AGGREGATE BASE -PIPE THICKNESS REINFORCING BAR TYPE "A" TYPE PER INLET 24" Ø (MAX.) REINFORCING BAR SCHEDULE PER DIMENSIONS NICE APPROX.WT.OF A B BARS IN INLET A B BARS IN INLET A B BARS IN INLET 7 1/2" REINFORCING STEEL BARS TYPES − 4" (TYP.) VAR. DEPTH - PROPOSED POROUS GRANULAR EMBANKMENT SEE PLAN SHEETS SECTION B-B Ľ1 5/8"

STORM SEWER/UNDERDRAIN NOTES

- CONTRACTOR SHALL FIELD VERIFY EXISTING STORM SEWER/UNDERDBAIN INVERTS BEFORE INSTALLING PROPOSED PIPE, CONNECTIONS AND ORDERING MATERIALS.
- ALL UNDERDRAIN CONNECTIONS, CORING INTO STRUCTURES, TEES, BENDS, STORM SEWER ETC. SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE UNDERDRAIN.
- UNDERDRAIN SLOPES FOLLOW EDGE OF PAVEMENT SLOPE UNLESS OTHERWISE NOTED.
- INSTALL PROPOSED ELECTRICAL DUCTS/CONDUITS TO BE CLEAR OF UNDERDRAIN, COST INCIDENTAL.
- UNDERDRAIN CONFLICTS WITH EXISTING CONDITIONS SHALL BE RESOLVED AND COST SHALL BE INCIDENTAL TO UNDERDRAIN.
- PRIOR TO ORDERING AND INSTALLING ALL FIELD TILE REPLACEMENT PIPE, THE CONTRACTOR SHALL FIELD VERFY THE LOCATION AND INVERTS OF EXISTING FIELD TILE CONNECTIONS, ADJUSTMENTS SHALL BE MADE AS NECESSARY AT NO ADDITIONAL COST TO THE CONTRACT.
- CORING OF DRAINAGE STRUCTURE AND REMOVAL OF EXISTING STORM SEWER MANHOLE/INLET CONCRETE BENCHES TO FACILITATE CONNECTIONS OF PROPOSED STORM SEWER PIPE SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PIPE.





A 품 [

S BAR

R IS EQUAL TO 2" SCALE (34X22).

UNDERDRAIN CONNECTION DETAILS NOT TO SCALE

UNDERDRAIN CONNECTIONS AND FITTINGS, TEES AND ELBOWS USED FOR CONNECTIONS TO PROPOSED STRUCTURES AND STORM SEWERS / EXISTING STRUCTURES AND STORM SEWERS, SHALL BE CONSIDERED INCIDENTAL TO THE PROPOSED UNDERDRAIN.

INSIDE DIAMETER OF STORM SEWER (INCHES) 5-7" 75-11" 76-6" 87-1" 97-8" 98-3" 108-3" 108-10" 109-5" 11'10-0" 1211'-2" 1311'-2" 1311'-4" 1412'-4" 1413'-6" 15'-MAXIMUM TRENCH WIDTH

TRENCH DETAILS

NOT TO SCALE

NON-P

AVED AREAS

DRAWN BY: HECKED BY:

Κ Ъ

2. INLET TO BE CONSTRUCTED OF STRUCTURAL P.C. CONCRETE. THE CONTRACT UNIT PRICE FOR INLET SHALL INCLUDE THE GRATE AND FRAME AS SPECIFIED.

1/2" CHAMFER TO BE USED ON ALL EXPOSED CORNIERS ON INLETS. BARS TO BE INSTALLED 2" FROM FACE OF WALL.

TYPE 1 INLET

-11"	-9, -7, -0, -0, -0, -0, -0, -0, -0, -0, -0, -0	-10"	-11"		2 6 2 9	REMOVAL	WIDTH
└ GRANULAR CRADLE (IDOT CA-6)	STORM SEWER PPE (CONCRETE, CMP OR PVC)	BACKFILL WITH ORIGINALLY INTERIOR WOTH SEE TABLE) GRANULAR BACKFILL 1' ABOVE PIPE	MOUND SLIGHTLY (TO BE FERTILIZED AND SEEDED)	GRANULAR CRADLE (IDOT CA-6) ALL PAVED AREAS	STORM SEWER PIPE (CONCRETE, CMP OR PVC)	GRANULAR BACKFILL UNDER THE PAVEMENT AND 3. MIN, OUTSIDE EDGE OF PAVEMENT. COMPACTED TO 95% STANDARD PROCTOR DENSITY (ASTM D-698)	SHOWN ON THE PLANS

DESIGN BY:	CONSULTING ENGINEERS CAWFORD, MURPHY & TILLY, NC. CONSULTING ENGINEERS

CHICAGO EXECUTIVE AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS **REHAB RUNWAY 34 HOLD APRON**

ILS

		NUMBER		SURVEY BOO	A.I.P. PROJ
		ВҮ	REVISIONS	SURVEY BOOK # BOOK #	A.I.P. PROJECT: 3-17-0018-B47
		DATE	3,	742	18-B47

PAO53

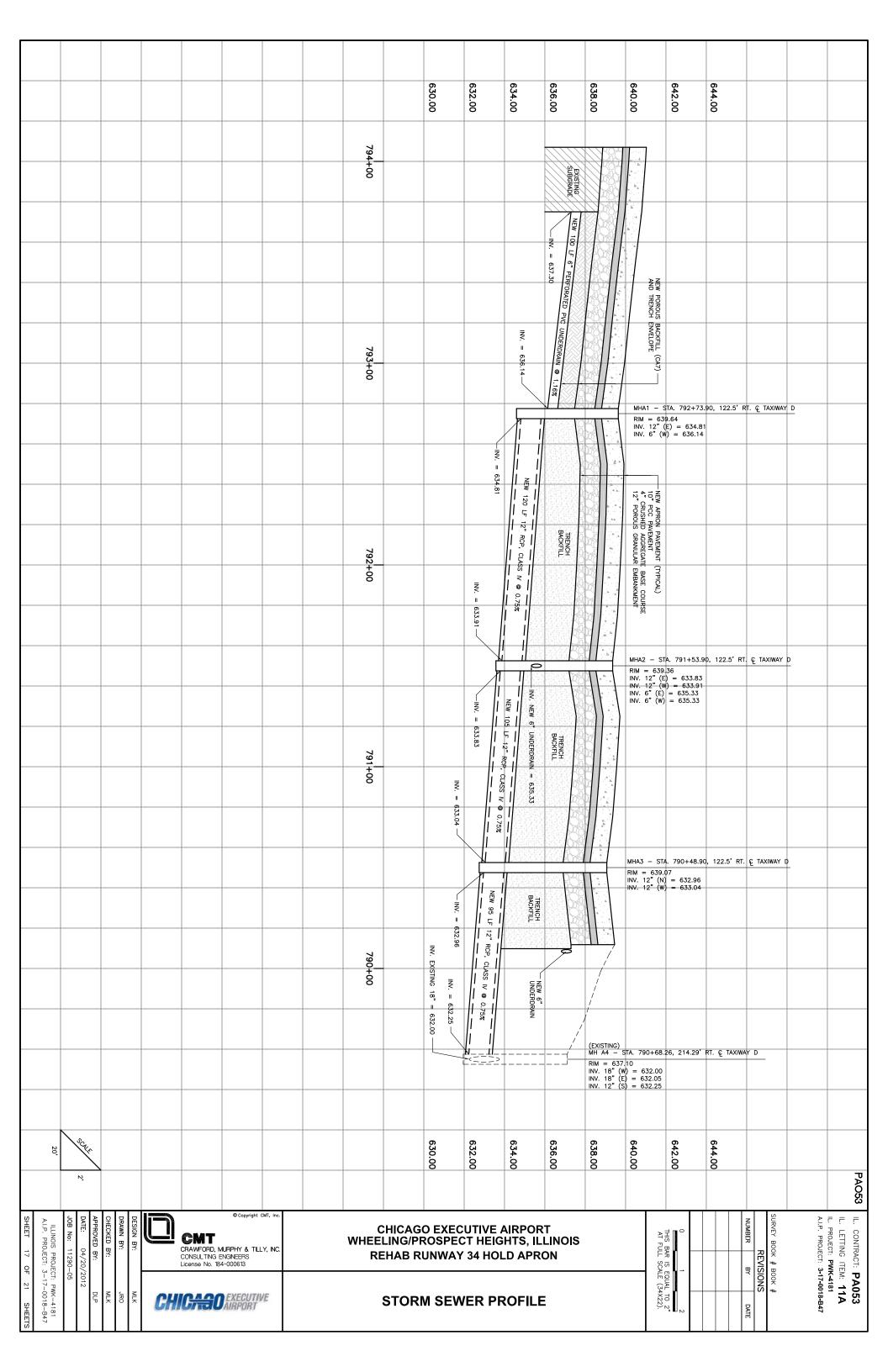
IL. CONTRACT: PA053

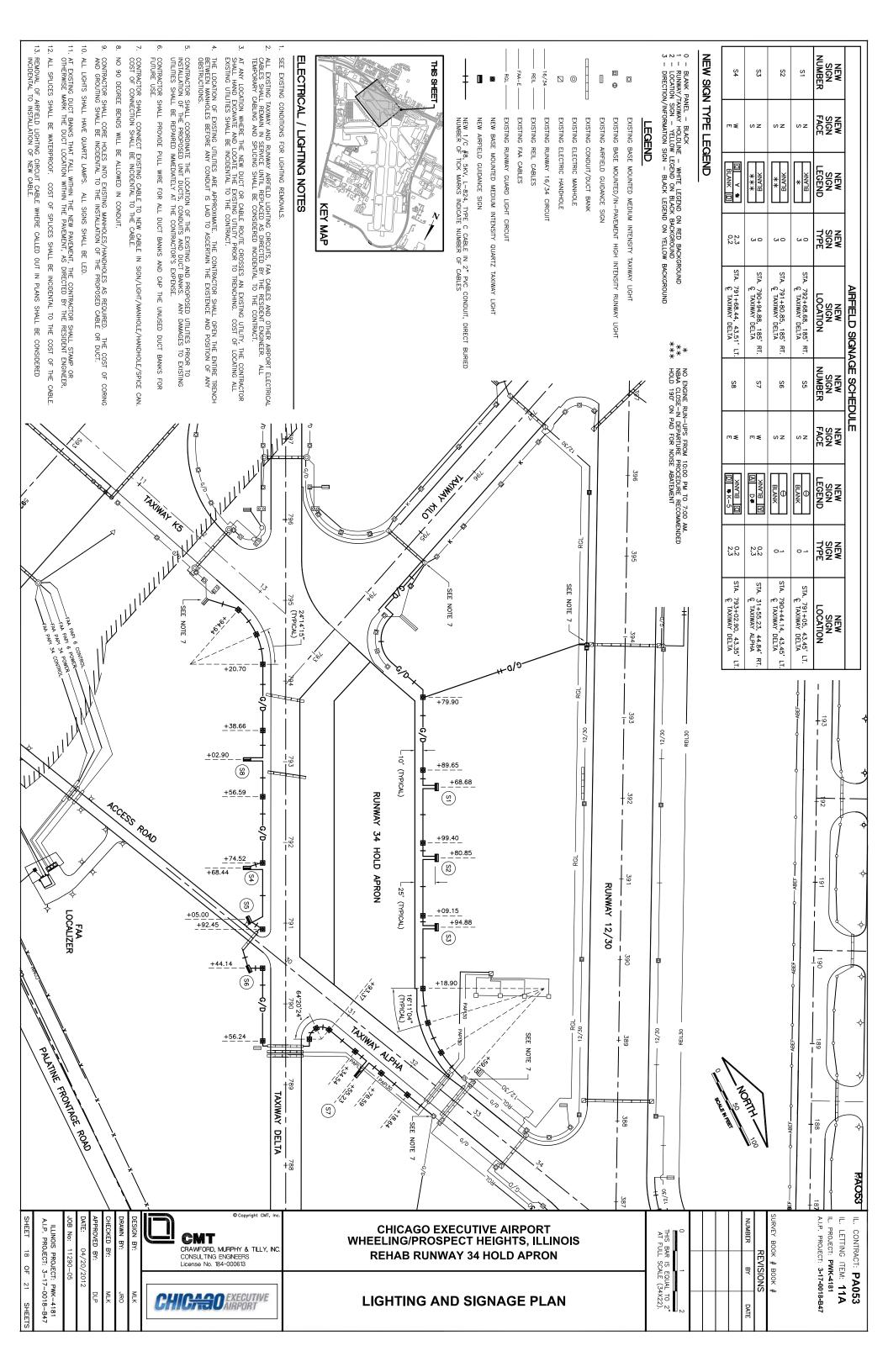
IL. PROJECT: PWK-4181

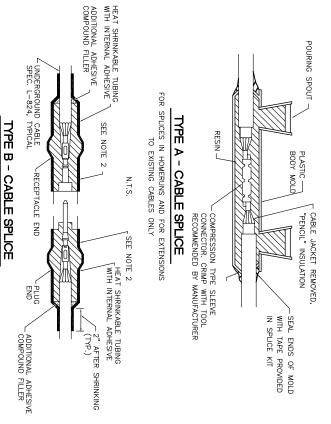
LETTING ITEM: 11A

CAAO EXECUTIVE	DRAINAGE DETAI

ILLINOIS PROJECT: PWK-4181
PROJECT: 3-17-0018-B47 유







SAND OR EARTH BACKFILL (TYP.) (SEE SPECIFICATIONS)

22" MIN.

3/16" R.-

1/16"

.15"

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

NUMBER

DATE

JRVEY BOOK # BOOK #

REVISIONS 野

3;

NUMBER OF DUCTS AND DUCT SIZE PRESTAMPED OR CHISELED ON THE JOB

BACKFILL RESTORATION —— PER SPEC. 108-3.5 (TYP.)

MN.

<u>M</u>N. 9₃

MOUND SLIGHTLY, GRADE AND SEED

METALLIC TAPE

30" MIN.

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.

TURF AREA CABLE TRENCH DETAIL INSULATED CABLE AS SHOWN ON LIGHTING LAYOUT SHEETS IN PVC OR GRS
CONDUIT (TYP.)

NOT TO SCALE

NOTES

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

15"

DUCT MARKERS SHALL BE
DRILLED AND GROUTED FLUSH
WITH THE SURFACE OF THE
PAVEMENTS.

ELECTRICAL DUCT

NEW DUCT MARKER SHALL BE INSTALLED AT ALL DUCTS LOCATIONS PROPOSED AND EXISTING AS SHOWN ON THE CABLING AND DUCT PLAN. (COST INCIDENTAL)

TURF PROPOSED

PROPOSED

PAVEMENT

DUCT MARKER DETAIL

NOT TO SCALE

PROPOSED I/C, #8 L-824, TYPE C,-5KV AIRFIELD LIGHTING CABLE IN 2" PVC CONDUIT (TYP.) FROM LAST NEW RUNWAY/ TAXIWAY LIGHT EXISTING ISOLATION TRANSFORMER EXISTING SECONDARY LEAD TO LIGHT LIGHT CAN -----CONNECT PROPOSED CABLE TO EXISTING CABLE AT L-823 PRIMARY CABLE CONNECTOR WITH TAPING AND HEAT SHRINK TUBING (TYPICAL) EXISTING CABLE TO NEXT RUNWAY/ TAXIWAY LIGHT

FACTORY MOLDED L-823 TRANSFORMER LEADS

FIELD INSTALLED L-823 PLUG END

ADDITIONAL ADHESIVE COMPOUND FILLER

HEAT SHRINKABLE TUBING
WITH INTERNAL ADHESIVE, PER SPECS.
2" AFTER SHRINKING
(TYP.)

RECEPTACLE END

HEAT SHRINKABLE TUBING WITH INTERNAL ADHESIVE, PER SPECS.

– 2" AFTER SHRINKING (TYP.)

FOR SPLICES FOR USE AT JUNCTION OF HOMERUN WITH LOOP CIRCUIT N.T.S.

FACTORY MOLDED L-823 TRANSFORMER LEADS

TYPE C AND D - CABLE SPLICE

PLUG END

FIELD INSTALLED COMPOUND FILLER L-823 RECEPTACLE END

FOR SPLICES AT RUNWAY/TAXIWAN LEGHTS AND SIGNS

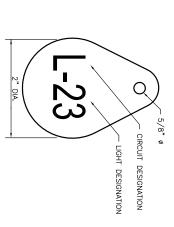
RUNWAY/TAXIWAY LIGHTING CIRCUIT CONNECTION DETAIL NOT TO SCALE

1. INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE.

NOTES

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.

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



NOTES

MINITALL A NON-CORROSIVE 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 A SET SCREW.

C Copyright CMT, In

- 2. NUMERALS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. ALL EXISTING AND PROPOSED TAXIWAY AND RUNWAY LUCHTS AND SIGNS SHALL BE TAGGED AS DIRECTED BY THE RESIDENT ENGINEER. ALL LIGHTS ON EXISTING CIRCUITS THAT HAVE LIGHTING IMPROVEMENTS (PROPOSED OR RELOCATED LIGHTS) SHALL BE RETAGGED.
- COST OF TAGGING LIGHTS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

ELECTRICAL DETAILS - SHEET 1

CHICAGO EXECUTIVE AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS REHAB RUNWAY 34 HOLD APRON

PAO53 IL. CONTRACT: PA053

IL. LETTING ITEM: 11A

IL. PROJECT: PWK-4181
A.I.P. PROJECT: 3-17-0018-B47

CHICAGO EXECUTIVE

LIGHT IDENTIFICATION DETAIL

NOT TO SCALE

CHECKED BY:)RAWN BY:

Κ

JRO

PROVED BY:

ILLINOIS PROJECT: PWK-4181
A.I.P. PROJECT: 3-17-0018-B47

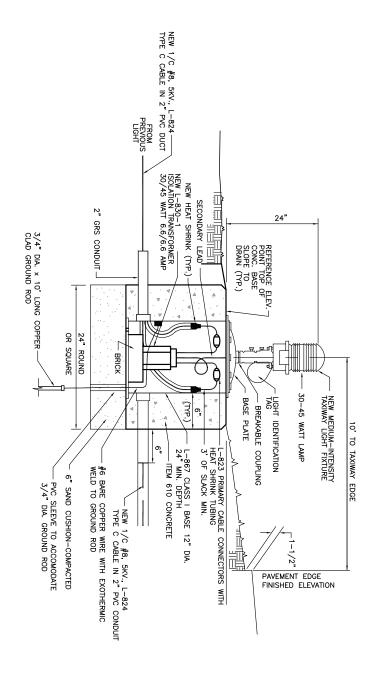
19 OF 21

No:

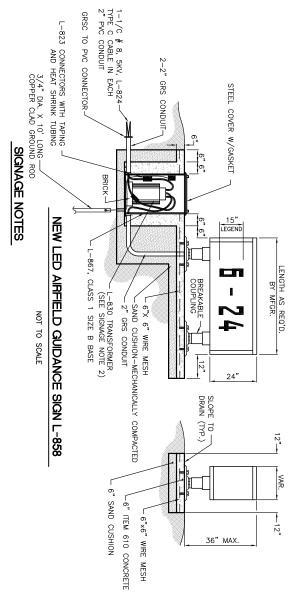
SIGN BY: CMT CRAWFORD, MURPHY & TILLY, INC CONSULTING ENGINEERS License No. 184-000613

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, 50000 V., L—824 TYPE C CABLES FOR CONNECTION TO EACH TRANSFORMER.
- 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. TO FURTHER REDUCE THE POSSIBILITY OF WATER/MOISTURE ENTRANCE INTO THE CONNECTOR BETWEEN THE CABLE AND THE FELD ATTACHED CONNECTOR, IT IS REQUIRED THAT A HEAT SHRINKABLE TUBING WITH INTERNAL ADHESIVE BE APPLIED OVER THE ENTIRE CABLE CONNECTOR.
- DUCT MARKERS SHALL BE INSTALLED AT EVERY NEW DUCT AND AT EVERY EXISTING DUCT USED FOR THIS PROJECT.



NEW BASE MOUNTED MEDIUM INTESITY TAXIWAY LIGHT



- ALL SIGNS ARE 2-SIDED LED SIGNS. STYLE 2 AND CLASS 2 AS MANUFACTURED BY ADB OR APPROVED EQUAL.
- TRANSFORMER WATTAGE AS RECOMMENDED BY MANUFACTURER FOR LED SIGNS.
- 3. LIGHTED SIGNS SHALL BE BASE MOUNTED ONLY.
- 4. THE NUMBER OF MODULES PER SIGN SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
- 5. CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWING INCLUDING SIGN, COLOR, SIZE AND PROPOSED LEGEND, IN ENOUGH DETAIL AND DETERMINE PROPOSED SPACING AND OTHER INFORMATION REQUIRED BY SPECIAL PROVISIONS. CONTRACTOR TO VERIFY PROPOSED SIGN LOCATIONS AND ORIENTATIONS WITH RESIDENT ENGINEER PRIOR TO INSTALLATION.

CHICAGO EXECUTIVE AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS REHAB RUNWAY 34 HOLD APRON	;

NUMBER JRVEY BOOK # BOOK # THIS BAR IS EQUAL TO 2' AT FULL SCALE (34X22). REVISIONS ₽ DATE

ELECTRICAL DETAILS - SHEET 2

PAO53 IL. CONTRACT: PA053

IL. PROJECT: **PWK-4181**A.I.P. PROJECT: **3-17-0018-B47** IL. LETTING ITEM: 11A

ILLINOIS PROJECT: PWK-4181
A.I.P. PROJECT: 3-17-0018-B47

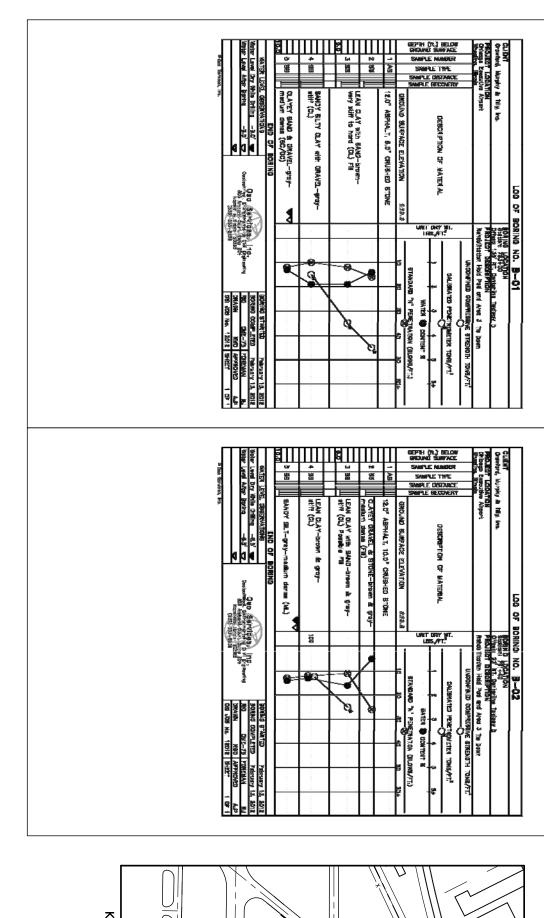
20 **OF** 21

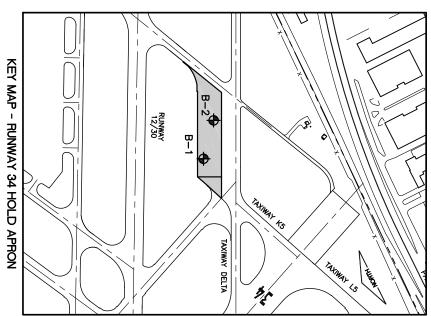
HECKED BY: DRAWN BY:

K K Ъ CMT

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

PROVED BY:





PAO53 IL CONTRACT: PA053
IL LETTING ITEM: 11A
IL PROJECT: PWK-4181
A.I.P. PROJECT: 3-17-0018-B47 Copyright CMT, Inc CHECKED BY: DRAWN BY: NUMBER ILLINOIS PROJECT: PWK-4181
A.I.P. PROJECT: 3-17-0018-B47 URVEY BOOK # BOOK # CHICAGO EXECUTIVE AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS PROVED BY: THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22). CMT CRAWFORD, MURPHY & TILLY, INC. CONSULTING ENGINEERS License No. 184-000613 21 OF 21 **REHAB RUNWAY 34 HOLD APRON** REVISIONS 野 JR0 CHICAGO EXECUTIVE **ENGINEERING INFORMATION** DATE