TOTAL SHEETS = 38

PALWAUKEE MUNICIPAL AIRPORT COMMISSION WHEELING/PROSPECT HEIGHTS, ILLINOIS

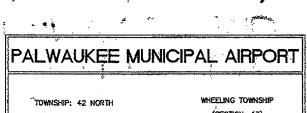


FINAL CONSTRUCTION PLANS FOR

PALWAUKEE MUNICIPAL AIRPORT

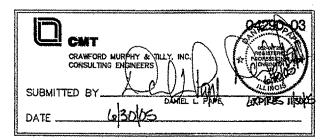
CONSTRUCT TAXIWAY CHARLIE FROM RUNWAY 24 END TO TAXIWAY KILO AND EAST QUADRANT APRON - PHASE 1

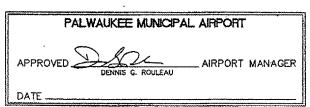
> ILLINOIS PROJECT: PWK-3481 A.I.P. PROJECT: 3-17-0018-B **DATE: JUNE 24, 2005**

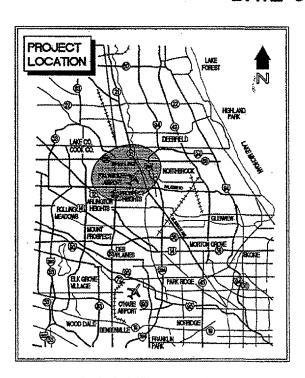


(SECTION: 13)

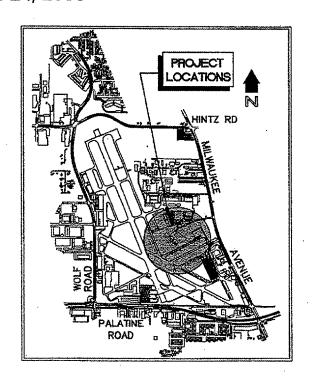
CALL JULIE BEFORE EXCAVATING 1-800-892-0123







LOCATION MAP



SITE PLAN

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SEQUENCE OF CONSTRUCTION PER AC 150/5370-2E (LATEST EDITION)
SEQUENCE OF CONSTRUCTION GENERAL NOTES AND DETAILS
STORM WATER POLLUTION PREVENTION PLAN
STORM WATER POLLUTION PREVENTION PLAN NOTES AND DETAILS
EXISTING CONDITIONS / PROPOSED REMOVALS -- SHEET
EXISTING CONDITIONS / PROPOSED REMOVALS -SHEET 2
PLAN AND PROFILE - SHEET 1.
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LIGHTING AND PAVEMENT MARKING PLAN — SHEET 1
LIGHTING AND PAVEMENT MARKING PLAN — SHEET 2
PAVEMENT JOINTING PLAN - SHEET 1
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STORM SEWER PROFILES AND DRAINAGE SCHEDULE
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ELECTRICAL DETAILS - SHEET 1
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AIRFIELD CABLE HOMERUN PLAN
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TOWER CONTROL DETAILS - SHEET 1
TOWER CONTROL DETAILS - SHEET 2
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CROSS SECTIONS
ENGINEERING INFORMATION - SHEET 1
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SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	TINU	TOTAL	RECORD QUANTITY
AR108108	1/C #8 SKV UG CABLE	LF	8,840	#ONITI1
AR109210	VAULT MODIFICATIONS	LS I	1	
AR109321	10 KW REGULATOR, STYLE 1	EACH	1	
AR110202	2" PVC DUCT, DIRECT BURY	LF	5,515	
AR110214	4" STEEL DUCT, DIRECT BURY	LF	160	
AR110504	4-WAY CONCRETE ENCASED DUCT	LF	246	
AR110550	SPLIT DUCT	LF	375	
AR110610 AR110714	ELECTRICAL HANDHOLE ELECTRICAL MANHOLE 4'	EACH	2 7	
AR110714 AR110907	REMOVE ELECTRICAL MANHOLE	EACH EACH	-	
AR125100	ELEVATED RETROREFLECTIVE MARKER	EACH	12	
AR125415	MITL - BASE MOUNTED	EACH	59	
AR125441	TAXI GUIDANCE SIGN, 1 CHARACTER TAXI GUIDANCE SIGN, 2 CHARACTER TAXI GUIDANCE SIGN, 3 CHARACTER	EACH	2	
AR125442	TAXI GUIDANCE SIGN, 2 CHARACTER	EACH	1	
AR125443	TAXI GUIDANCE SIGN, 3 CHARACTER	EACH	1	
AR125445	TAXI GUIDANCE SIGN, 5 CHARACTER	EACH	2	
AR125446	TAXI GUIDANCE SIGN, 6 CHARACTER TAXI GUIDANCE SIGN, 7 CHARACTER	EACH	1	
AR125447	TAXI GUIDANCE SIGN, 7 CHARACTER	EACH	1	
AR125449	TAXI GUIDANCE SIGN, 9 CHARACTER	EACH		
AR125461	TAXI GUIDANCE SIGN, SPECIAL	EACH		
AR125470 AR125902	MODIFY EXISTING SIGN PANEL REMOVE BASE MOUNTED LIGHT	EACH EACH	10	
AR125904	REMOVE TAXI GUIDANCE SIGN	EACH		
AR150510	ENGINEER'S FIELD OFFICE	LS		***************************************
AR152540	SOIL STABILIZATION FABRIC	SY	19,960	
AR156510	SILT FENCE	LF	3,750	
AR156511	DITCH CHECK	EACH	7	······································
AR156520	INLET PROTECTION	EACH	16	
AR156540	RIP RAP	SY	50	
AR162960	RELOCATE CLASS E FENCE	LF	109	
AR163000	TEMPORARY CONSTRUCTION FENCE	LF LF	550	
AR201610	BITUMINOUS BASE COURSE	TON	190	
AR208515 AR209606	POROUS GRANULAR EMBANKMENT CRUSHED AGG. BASE COURSE - 6"	CY SY	1,800	
AR209606 AR209607	CRUSHED AGG. BASE COURSE - 6	SY SY	17,755 1,625	
AR401610	BITUMINOUS SURFACE COURSE	TON	190	
AR401900	REMOVE BITUMINOUS PAVEMENT	SY	430	
AR501510	10" PCC PAVEMENT	SY	17,275	
AR501530	PCC TEST BATCH	EACH	1	
AR501900	REMOVE PCC PAVEMENT	SY	35	
AR602510	BITUMINOUS PRIME COAT	GAL	480	
AR603510	BITUMINOUS TACK COAT	GAL	120	
AR620520	PAVEMENT MARKING - WATERBORNE	SF	9,875	
AR620525	PAVEMENT MARKING-BLACK BORDER	SF	11,850	
AR620900	PAVEMENT MARKING REMOVAL	SF	1,350	
AR701518 AR701524	18" RCP, CLASS IV 24" RCP, CLASS IV	LF LF	330	
AR701524 AR701548	24" RCP, CLASS IV 48" RCP, CLASS IV	TF IF	72 133	
AR701900	REMOVE PIPE		250	
AR705526	6" PERFORATED UNDERDRAIN W/ SOCK		4,100	
AR705635	UNDERDRAIN COLLECTION STRUCTURE	EACH		
AR705900	REMOVE UNDERDRAIN	LF	560	
AR705901	REMOVE UNDERDRAIN HEADWALL	EACH	1	
AR705905	REMOVE COLLECTION STRUCTURE	EACH	1	
AR751560	MANHOLE 6'	EACH	4	
AR751903	REMOVE MANHOLE	EACH	2	
AR751943	ADJUST MANHOLE	EACH .		
AR751983	RECONSTRUCT MANHOLE	EACH	2	
AR752418 AR752518	PRECAST REINFORCED CONC. FES 18" GRATING FOR CONC. FES 18"	EACH EACH		
AR752906	REMOVE INLET BOX	EACH EACH	1	
AR800001	TYPE 1 INLET	EACH		·····
AR800028	SLOPE BOX INLET 18"	EACH	-	
AR800053	SOIL GUARD	SY	4,905	
AR800103	EMBANKMENT FILL	CY	14,000	
AR800104	SHOULDER FILL	CY	19,400	
AR901510	SEEDING	ACRE	13	
AR905510	TOPSOILING (FROM ON SITE)	CY	3,400	
AR908510	MULCHING	ACRE	12	

PA048
PATH: K:\0329005\draw\sheets\
FILE: qty.dwg
UPDATE BY: johse
SURVEY BOOK #
XREF DWG:
XREF DWG:
DATE: Fri 5/21/04 1:47pm

REVISIONS					
NUMBER	₿Y	DATE			

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

QUANTITIES SUMMARY OF

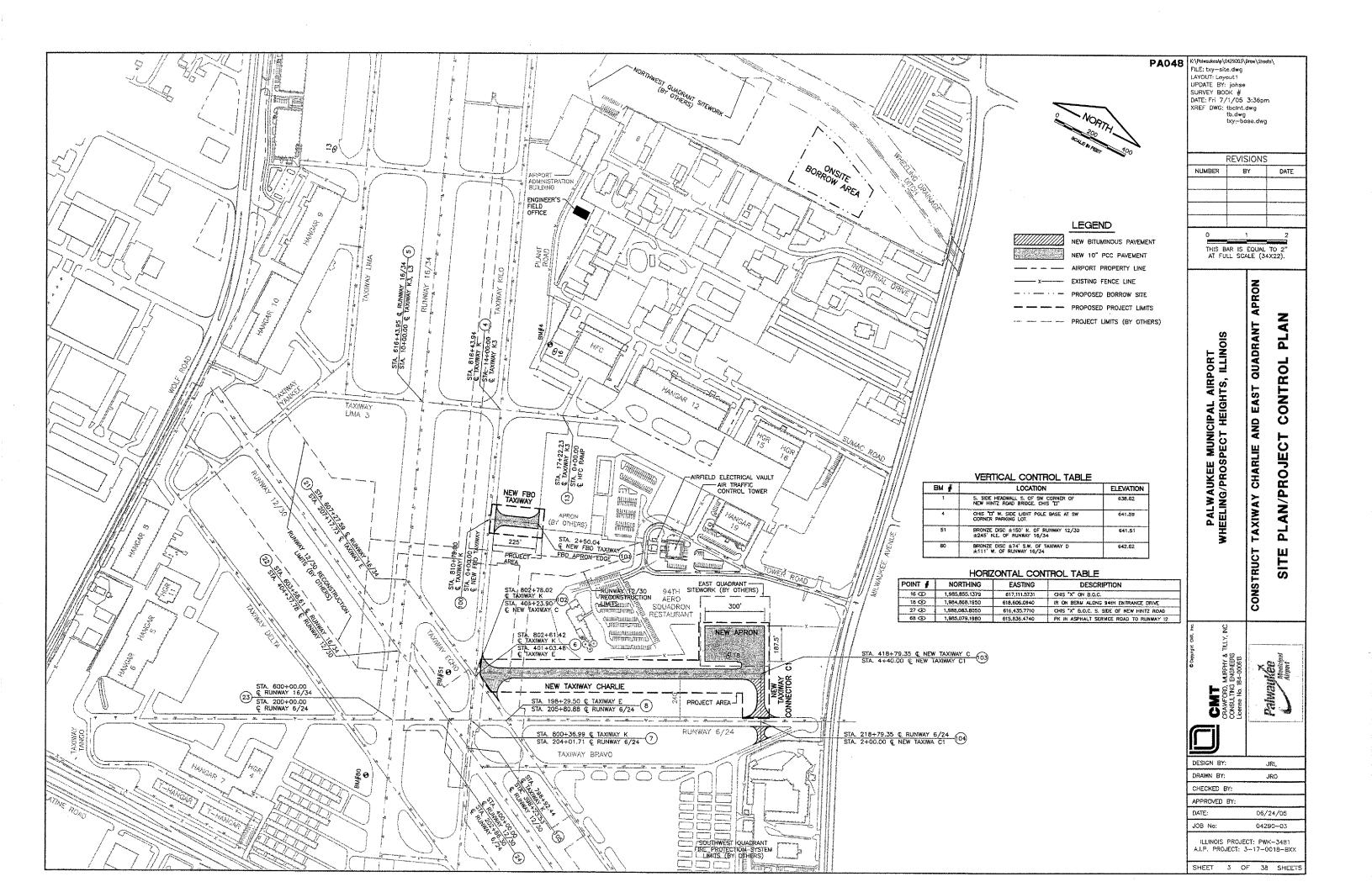
CONSTRUCT TAXIWAY CHARLIE AND EAST QUADRANT APRON PALWAUKEE MUNICIPAL AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS

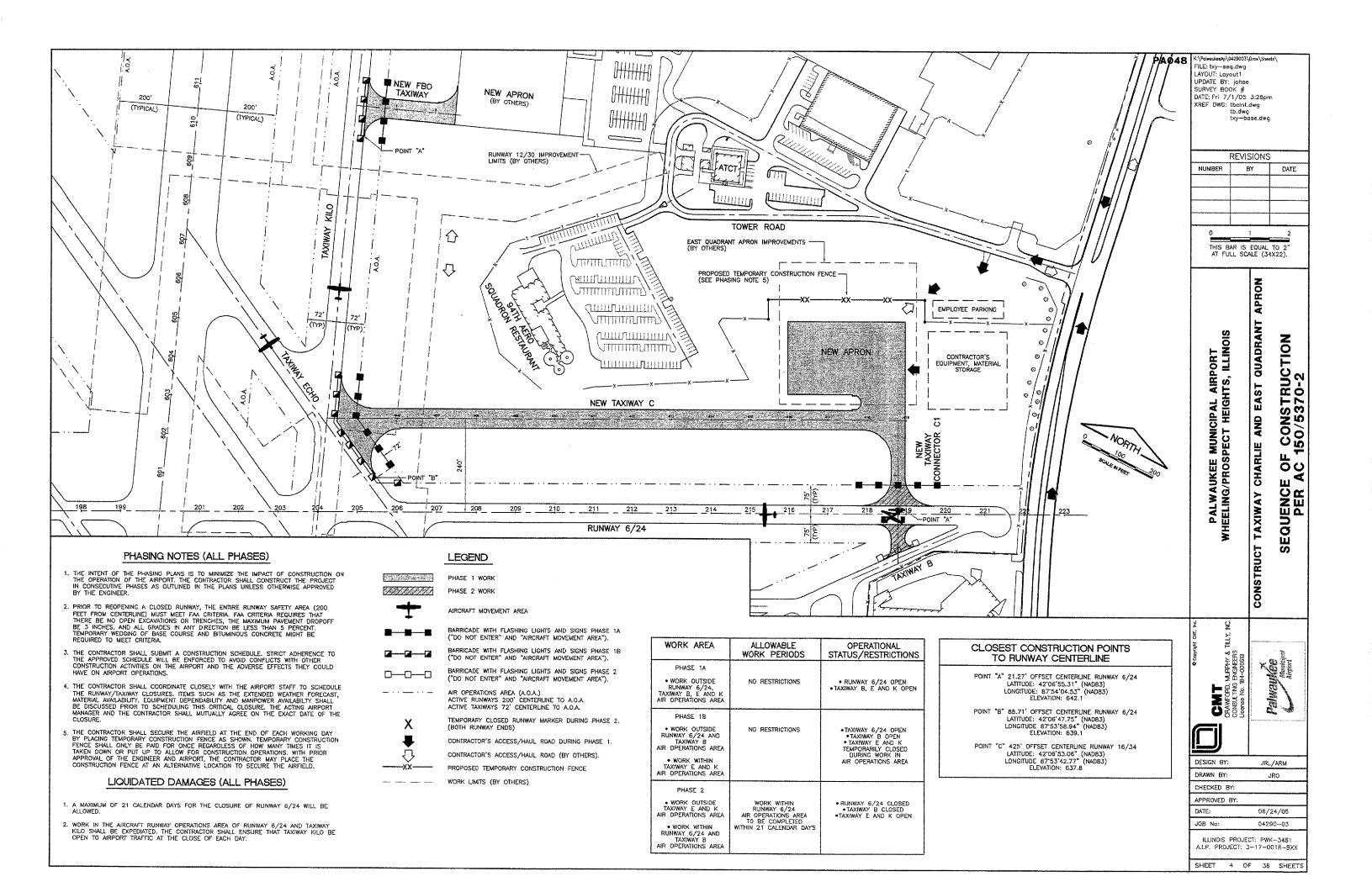
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CAMT ATLY, NC. CONSULT THE & TILY, NC. CONSULT THE BOAREERS LICENSE NO. 184-000613	Patwaykee Municipal

DESIGN BY:	MJK
DRAWN BY:	JRO
CHECKED BY:	
APPROVED BY:	
DATE:	06/24/05
JOB No:	04290-03

ILUNOIS PROJECT: PWK-3481 A.I.P. PROJECT: 3-17-0018-BXX

SHEET 2 OF 38 SHEETS





GENERAL NOTES

- THE SUGGESTED SEQUENCE OF CONSTRUCTION SHOWN IS INTENDED TO ALLOW FOR THE ORDERLY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS WHILE MAINTAINING AIRCRAFT ACCESS AT ALL TIMES. THE PHASING SHOWN IS A SUGGESTED SEQUENCE OF CONSTRUCTION ONLY. THIS SEQUENCE MAY BE MODIFIED HOWEVER, ALTERNATE STAGING PLANS MUST MAINTAIN AIRPORT OPERATIONS TO THE SATISFACTION OF THE AIRPORT MANAGER AND RESIDENT ENGINEER AND BE APPROVED BY THE DIVISION OF AERONAUTICS AND FEDERAL AVIATION ADMINISTRATION.
- ALL OPERATIONS SHALL BE IN CONFORMANCE WITH AC 150/5370-2C (LATEST EDITION) SAFETY DURING
- 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 SEQUENCE AS IT RELATES TO PEDESTRIAN, VEHICULAR AND
- 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
- 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.
- 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
- 8. THE CONTRACTOR SHALL PROVIDE PORTABLE FLOOD LIGHTING FOR NIGHTIME 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.
- 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
- 10. MATERIALS REMOVED FROM THE PROJECT WILL BE DISPOSED OF OFF AIRPORT PROPERTY, UNLESS NOTED
- 11 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 INCIDENTAL TO THE CONTRACT. BARRICADES AT 10-FOOT CENTERS WITH ONE ORANGE FLAG (24" x 24") BETWEEN EACH SET OF BARRICADES SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE KIGINEER, BARRICADES SHALL BE WIGHTED TO PREVENT BLOWING OVER. BARRICADES SHALL HAVE A FLASHING RED LIGHT AND CONFORM TO JOT STANDARD 702001, TYPE II, BARRICADE INSTALLATION WILL BE REQUIRED PRIOR TO ACCESS TO THE A.O.A. BY CONTRACTOR'S WORKERS, EQUIPMENT OR MATERIAL. SIGNS SHALL BE PLACED AT EACH TAXIMAY/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 CONTRACTOR SHALL TO THE CONTRACT. IN CONJUNCTION WITH 100T TYPE II BARRICADES, THE CONTRACTOR SHALL SUPPLY AND USE AS DIRECTED BY THE AIRPORT, REFLECTIVE LOW PROFILE BARREL DOES ADDRESSED TO THE CONTRACTOR SHALL SUPPLY AND USE AS DIRECTED BY THE AIRPORT, REFLECTIVE LOW PROFILE BARREL
- 12. THE CONTRACTOR SHALL CONTACT THE AIRPORT MANAGER 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 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.
- CONTRACTOR WILL BE REQUIRED TO PUT AIRPORT FLAGS AND HAVE BEACON LIGHTS 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 ENGINEER
- 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. PALWAUKEE MUNICIPAL 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
- 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 ENGINI PRIOR TO THE WORK. ALL ON-SITE ACCESS ROADS TO AIRPORT FACILITIES SHALL REMAIN OPEN AND MAINTAINED AT ALL TIMES.

- 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, AND SHALL BE AT THE CONTRACTOR'S EXPENSE. IF FAA CABLES ARE DAMAGED, REPAIRS SHALL BE DONE FROM POINT TO 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 SUBSCOURT MEETING, AND KEPT ON FILE AT THE FIELD OFFICE. THE COORDINATION MEETING COSTS SHALL BE CONSIDERED INCIDENTAL TO THE
- 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 72' FROM ACTIVE TAXIWAYS AND 200' FROM ACTIVE RUNWAYS UNLESS OTHERWISE APPROVED BY THE AIRPORT MANAGER.
- 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 VALUET 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.
- 29. COORDINATION BY THE CONTRACTOR WITH THE EXISTING UTILITIES SHALL BE COMPLETED BEFORE CONSTRUCTION IS STATED. 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 OR THE DESIGN ENGINEER ASSUME ANY RESPONSIBILITY WHATEVER IN RESPECT TO THE ACCURACY, COMPLETENESS OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED THAT THE LOCATIONS, SIZE AND INFORMATION. HERKE IS NO GUARANTEE, ETHER 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 OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT MANAGER.
- 30. ALL AIRPIELD 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 DEFCIENCIES IN THESE SYSTEMS DUE TO THE ACTS OF CONTRACTOR OR HIS SUBCONTRACTORS, SUPPLIERS OR CONSULTANTS SHALL BE REPAIRED IMMEDIATELY.
- 31. ORANGE CONES SHALL BE PLACED AT 25' CENTERS ALONG THE PAVEMENT EDGE DURING CONCRETE POURING OPERATIONS OF THE CLOSURE LANES TO PREVENT VEHICLES FROM ENTERING PLASTIC CONCRETE. IN THE EVENT A VEHICLE ENTERS THE CONCRETE BEFORE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI HAS BEEN OBTAINED, SAID PAYEMENT SHALL BE REMOVED AND REPLACED AT

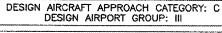
CONTRACTOR CROSSING RUNWAY AND TAXIWAY AIR OPERATIONS AREA (A.O.A.)

- 32. ANYTIME THE CONTRACTOR IS REQUIRED TO LITHERF OR CROSS ACTIVE AIRFIELD PAVEMENTS FOR ACCESS TO 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 FAMILLAR 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 PROVIDE THEIR OWN RADIOS. 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 ACENTS.
- 33. 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 DWNER. 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
- 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 RELOCATE EQUIPMENT TO ALLOW AIRCRAFT TO PASS, THEY SHALL DO SO AT NO 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.

NOTE - ALL PHASES

ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS FAA CARLES 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.

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.



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

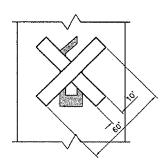
IN THE EVENT THE CONTRACTOR PROPOSES TO LITHIZE AN ON-SITE CONCRETE BATCH PLANT, LOCATION TO BE COORDINATED WITH RESIDENT ENGINEER AND ACTING AIRPORT MANAGER TO ALLOW FOR APPROPRIATE AIRSPACE CLEARANCE. THE CONTRACTOR WILL BE RESPONSIBLE TO SUBMIT FAA FORM 7460 FOR AIRSPACE APPROVAL, THE RESIDENT ENGINEER WILL PROVIDE BASE AIRPORT INFORMATION FOR THE CONTRACTOR'S USE.

RUNWAY 24 THRESHOLD

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. RECONSTRUCT RUNWAY 12/30

- CONSTRUCT S.W. QUADRANT FIRE
- PROTECTION SYSTEM

 CONSTRUCT N.E. QUADRANT SITEWORK
 AND EAST QUADRANT APRON SITEWORK

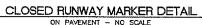


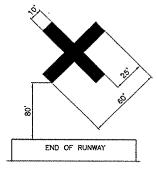
36"

CONSTRUCTION EQUIPMENT

AND TRUCK SIGNAL FLAG

NOT TO SCALE





OFF PAVEMENT CLOSED RUNWAY MARKER DETAIL

NO SCALE

CLOSED RUNWAY MARKER DETAIL NOTES

- 1. CLOSED RUNWAY MARKERS SHALL BE YELLOW.
- 2. MARKERS SHALL BE MATERIAL APPROVED BY THE ENGINEER.
- 3. 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.
- 6. 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

LIMITATIONS ON CONSTRUCTION WITHIN AIRPORT OPERATIONS AREA (A.O.A.)

THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT MANAGER TEN (10) WORKING DAYS IN ADVANCE OF ANY PLANNED CONSTRUCTION WITHIN THESE LIMITS. WORK SHALL BE EXPEDITED IN THESE AREAS AND AT THE END OF EACH WORKING DAY THESE AREAS SHALL BE SMOOTHLY GRADED TO ALLOW THE RUNWAY TO BE REOPENED. AT LEAST ONE OF THE RUNWAYS SHALL REMAIN IN OPERATION AT ALL TIMES. IF NECCESSARY STEEL PLATES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR TO COVER ANY OPEN TENCHES OR EXCAVATION WITHIN THE A.O.A. IF DURING RUNWAY CLOSURE AN EMERGENCY IS DECLARED, THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE RUNWAY OF ALL VEHICLES, MEN AND THE COURSE ON PURPLET THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE RUNWAY OF ALL VEHICLES, EMERGENCY IS DECLARED, THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE RUNWAY OF ALL VEHICLE:
MEN AND EQUIPMENT, THE CONTRACTOR WILL BE LIMITED TO 21 DAILY CLOSURES ON RUNWAY 6/24.

ANY WORK WITHIN 72' OF THE TAXIWAY CENTERLINE WILL REQUIRE A TAXIWAY CLOSURE, CONSTRUCTION WILL BE ALLOWED UP TO THE EDGE OF THE TAXIWAY PAVEMENTS WITHOUT CLOSURE ON A LIMITED BASIS AS DETERMINED BY THE AIRPORT MANAGER. 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 RELOCATE EQUIPMENT TO ALLOW AIRCRAFT TO PASS, THEY SHALL DO SO AT NO EXTRA COST TO THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT MANAGER FIVE (5) WORKING DAYS IN ADVANCE OF ANY PLANNED CONSTRUCTION WITHIN THESE LIMITS.

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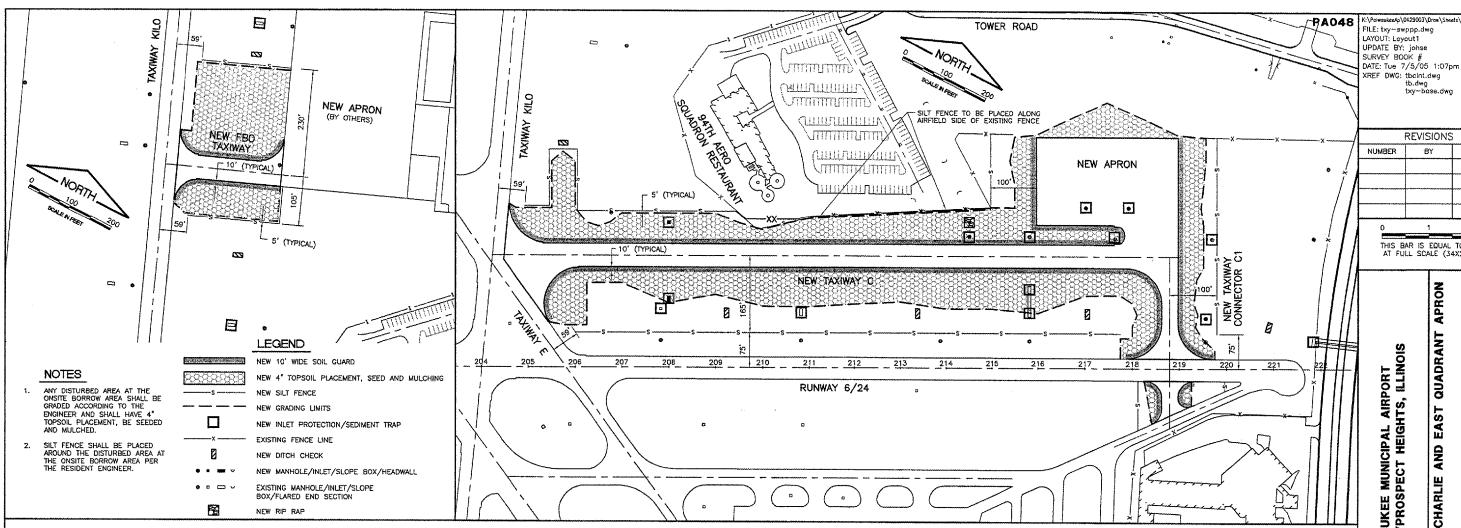
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DATE: 06/24/05 04290~03 ILLINOIS PROJECT: PWK-3481

A.I.P. PROJECT: 3-17-0018-BX)

SHEET 5 OF 38 SHEETS



STORM WATER POLLUTION PREVENTION PLAN

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 COMPLIANCE WITH NPDES.

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 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.

SITE DESCRIPTION

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

THIS PROJECT CONSISTS OF CONSTRUCTING TAXIWAY CHARLIE AND EAST QUADRANT APRON AT THE PALWAUKEE MUNICIPAL AIRPORT. THE PROJECT INCLUDES EARTH EXCAVATION, EMBANKMENT, STORM SEWERS, MANHOLES, INLETS VARIOUS PAVEMENT ITEMS, ELECTRICAL WORK AND OTHER MISCELLANEOUS CONSTRUCTION WORK.

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:

1.EXCAVATION AND EMBANKMENT WILL BE COMPLETED WITHIN THE PROJECT LIMITS TO GRADE OUT FOR THE PROPOSED DRAINAGE AND PAVEMENT IMPROVEMENTS.

2.STORM SEWERS, MANHOLES, INLETS AND CULVERT INSTALLATION.

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

5.FINAL GRADING, ELECTRICAL INSTALLATION AND OTHER MISCELLANEOUS ITEMS.

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

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 17 ACRES OF WHICH 13 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 PREVENTION PLAN AS REFERENCED DOCUMENTS:

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

CONTROLS-EROSION CONTROLS AND SEDIMENT CONTROL

DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION

1.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 SEEDING AND MULCHING AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES 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 ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE

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.

1.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 UNNECESSARY SOIL EROSION.

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

3.AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER:

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 PLACE PIPE.

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.

4.CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. 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 STORE OF THE STORE OF

5.THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT DAILY 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.

6.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 CONTROL

7.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.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING:

1.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 SEEDED AND ESTABLISHED.

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

MAINTENANCE AFTER CONSTRUCTION

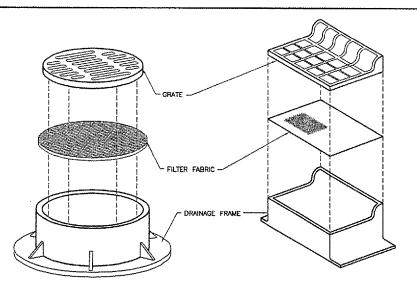
CONSTRUCTION IS COMPLETE AFTER FINAL ACCEPTANCE BY THE ILLINOIS DIVISION OF AERONAUTICS. MAINTENANCE UP TO THIS DATE WILL BE REQUIRED BY THE CONTRACTOR.

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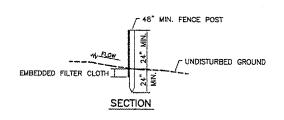
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NOTES:

- FILTER WRAP TO BE PLACED IN ALL INLETS, MANHOLES, TRENCH DRAINS AND CATCH BASINS LOCATED IN PAVED AREAS AND NONPAVED AREAS.
- 2. FABRIC SHALL BE IN CONFORMANCE WITH MATERIALS SPECIFIED FOR FABRIC FENCE.
- 3. FABRIC SHALL OVERLAY FRAME BY 2" (MIN.).
- CONTRACTOR SHALL CLEAR DEBRIS AND SILT AS REQUIRED FROM FABRIC TO MAINTAIN DRAINAGE THROUGH THE STRUCTURE.
- FABRIC SHALL REMAIN IN PLACE UNTIL TURFED AREAS HAVE DEVELOPED A MIN, OF 80% OF COVERAGE.
- 6. COST OF FILTER WRAP SHALL BE CONSIDERED INCIDENTAL TO INLET PROTECTION.

SILT FENCE 5' MAX C. TO C. 48" MIN. FENCE POSTS, DRIVEN 24" MINIMUM INTO GROUND WHAT I WAS A STATE OF THE POST OF THE POST



NOTES

BALES SHALL BE PLACED AT THE TOE OF SLOPE OR ON A CONTOUR AND

IN A ROW WITH ENDS

2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES,

BALE. THE FIRST STAKE
IN EACH BALE SHALL BE
DRIVEN TOWARD THE
PREVIOUSLY LAID BALE AT

AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.

FREQUENT AND REPAR / REPLACEMENT SHALL BE MADE PROMPTLY AS

5, BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT

> STORM FLOW OR DRAINAGE. COST OF

PROTECTION/DITCH

6. AFTER FINAL APPROVAL
OF THE ENGINEER, STRAW
BALES MAY BE REMOVED.
CONTRACTOR SHALL
PLACE SOD, EXCELSIOR
BLANKET WITH SEED OR

BLANKE! WITH SEED OR KNITTED STRAW MAT WITH SEED OVER THE DISTURBED AREAS. COST INCIDENTAL TO INLET PROTECTION.

CHECK.

TO BLOCK OR IMPEDE

REMOVAL / REPLACEMENT TO BE INCLUDED IN UNIT PRICE FOR INLET

4. INSPECTION SHALL BE

HORIZONTAL.

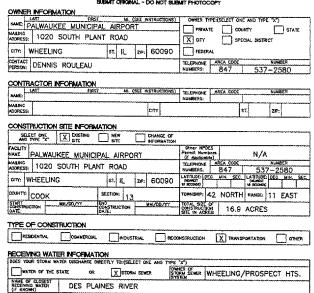
BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBARS DRIVEN THROUGH THE

CONSTRUCTION NOTES FOR SILT FENCE

- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" MIN. AND FOLDED.
- 2. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE. MAINTENANCE, WHICH INCLUDES THE REPLACEMENT OF DAMAGED FENCE, SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE EROSION CONTROL FENCE.
- 3. SILT FENCE SHALL BE INSTALLED PER LANDSCAPING/EROSION CONTROL PLAN OR AS DIRECTED BY THE ENGINEER.

ILLINIOS ENVIRONMENTAL PROTECTION AGENCY NOTICE OF INTENT (NOI) GENERAL PERMIT TO DISCHARGE STORM SEWER CONSTRUCTION SITE ACTIVITIES

IMPORTANT: FORM MUST BE TYPED TO ENABLE AUTOMATED OPTICAL PROCESSING.
SUBMIT OFFICIAL - DO NOT SUBMIT PHOTOCOPY



NAME OF COSTS DES PLAINES RIVER
RECEIVED WATER DATE AND THE CONTROL OF POLITAINS IN

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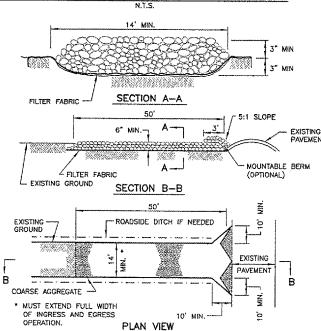
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DESCRIPTION OF WATER PEQUATION CONTROL

EXCHANGED AMERICA.

EXCHANGED A

This Agency is outhorized to require this information under littles Revised Statute, 1991, Chapter 111 1/2, section 1039, information is required under that Section. Failure to do so may prevent this form from being processed and could result in your opinication being critical. This form has been approved by the Forms Management Center.

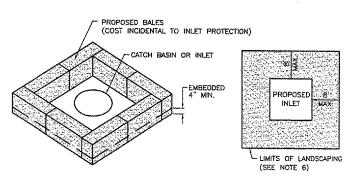
DRAINAGE STRUCTURE FILTER WRAP



- FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFIED FOR AR152540 IN THE ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF AERONAUTICS SUPPLEMENTAL SPECIFICATIONS AND RECURING SPECIAL PROVISIONS.
- ROCK OR RECLAIMED CONCRETE SHALL MEET ONE OF THE FOLLOWING IDOT COARSE AGGREGATE GRADATION, CA-1, CA-2, CA-3 OR CA-4.
- ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHALL BE CONSTRUCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS AND SHALL BE INCIDENTAL TO THE CONTRACT.
- 4. MINIMUM WIDTH IS 14' FOR ONE-WAY TRAFFIC AND 20' FOR TWO WAY TRAFFIC. TWO-WAY TRAFFIC WIDTHS SHALL BE INCREASED A MINIMUM OF 4' FOR TRAILER TRAFFIC, DEPENDING ON THE TYPE OF VEHICLE OR EQUIPMENT, SPEED, LOADS, CLIMATIC AND OTHER CONDITIONS UNDER WHICH VEHICLES AND EQUIPMENT OPERATE AN INCREASE IN THE MINIMUM WIDTHS MAY BE REQUIRED.
- 5. ROADWAY SHALL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE.
- 6. STABILIZED CONSTRUCTION ENTRANCE SHALL BE INCIDENTAL TO THE CONTRACT.

STABILIZED CONSTRUCTION ENTRANCE

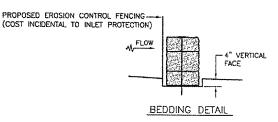
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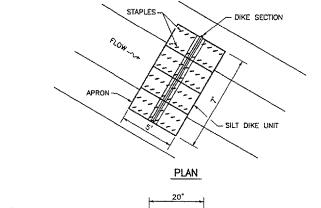
EROSION CONTROL FABRIC FENCE DETAIL

INLET PLACEMENT

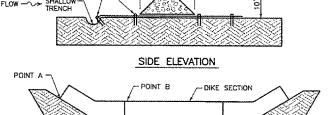
INLET PLACEMENT



STORM INLET SEDIMENT TRAP DETAIL - TURF AREAS



STAPLES

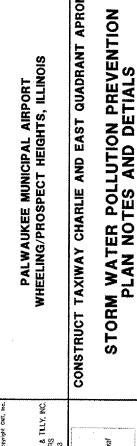


POINT A MUST BE HIGHER THAN POINT B TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

FRONT ELEVATION

URETHANE FOAM/GEOTEXTILE DITCH CHECK

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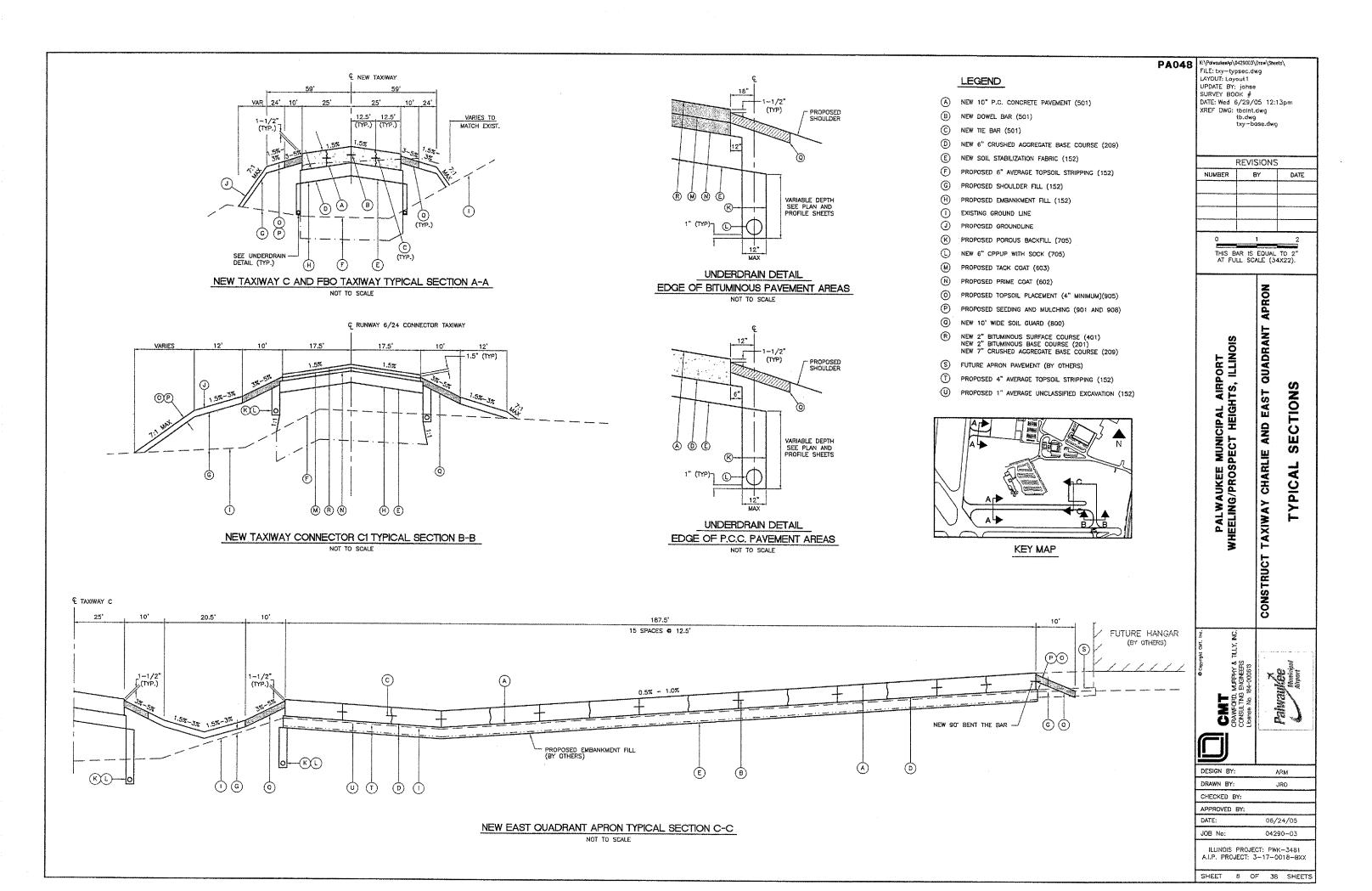
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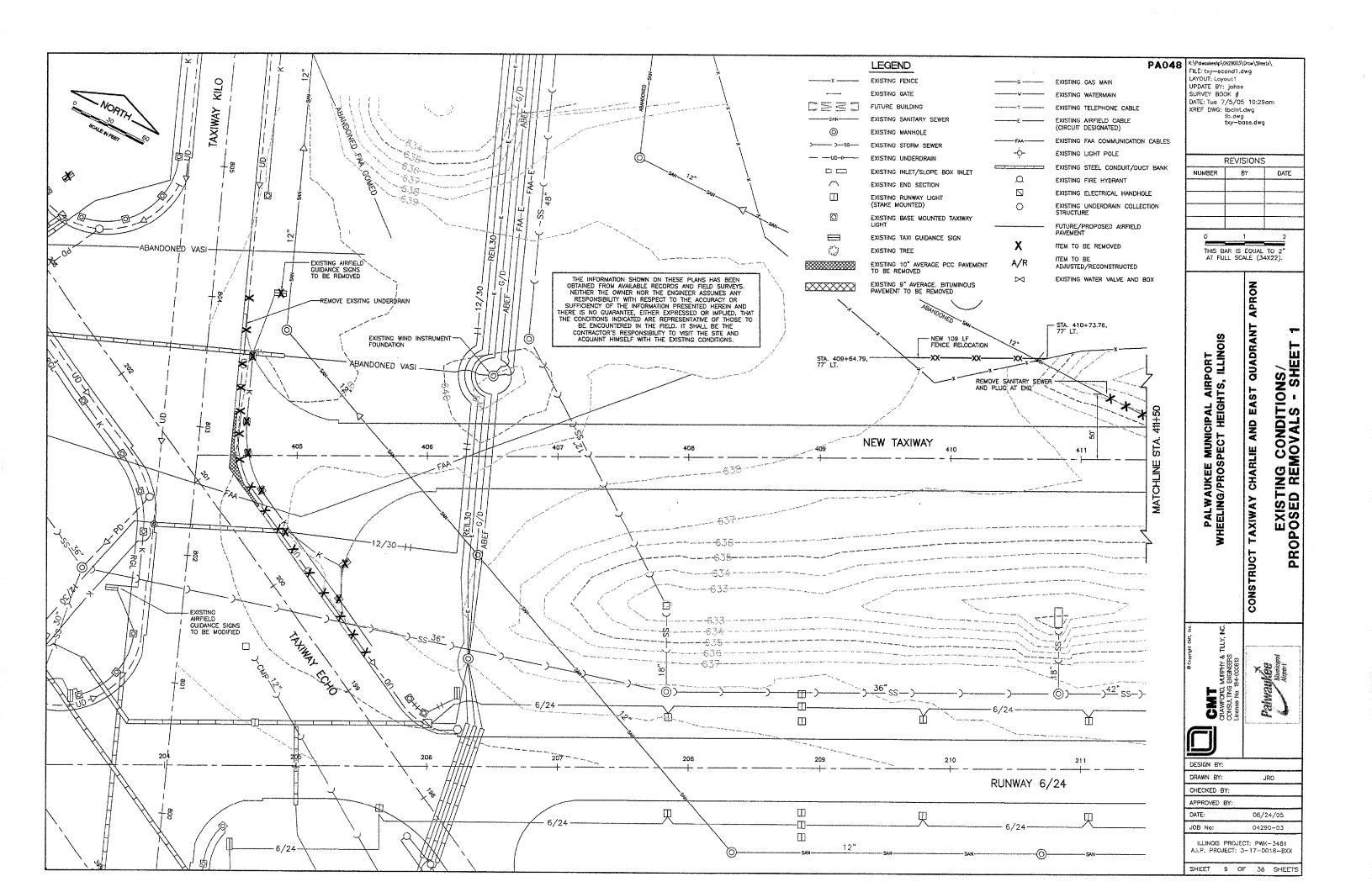
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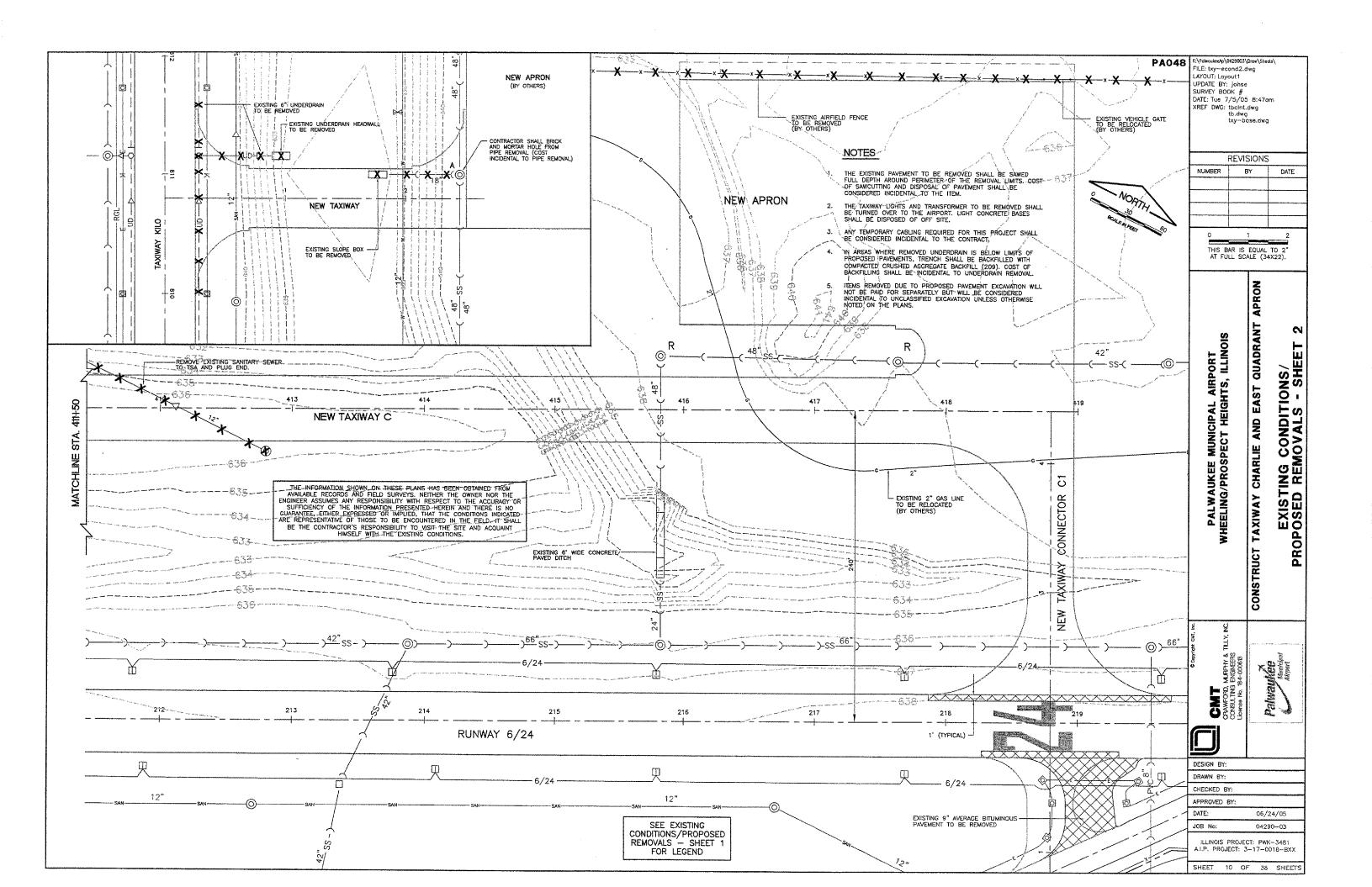
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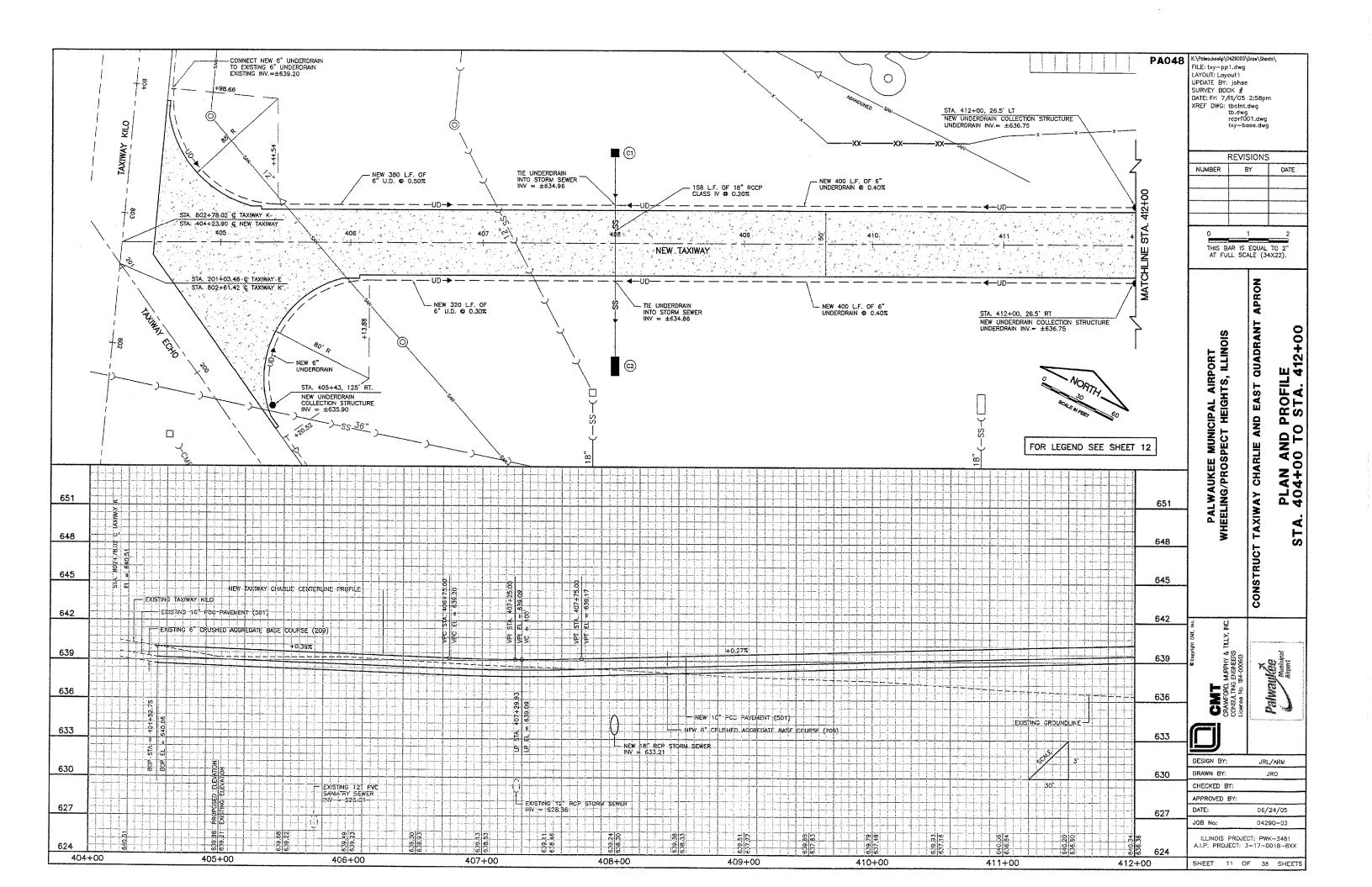
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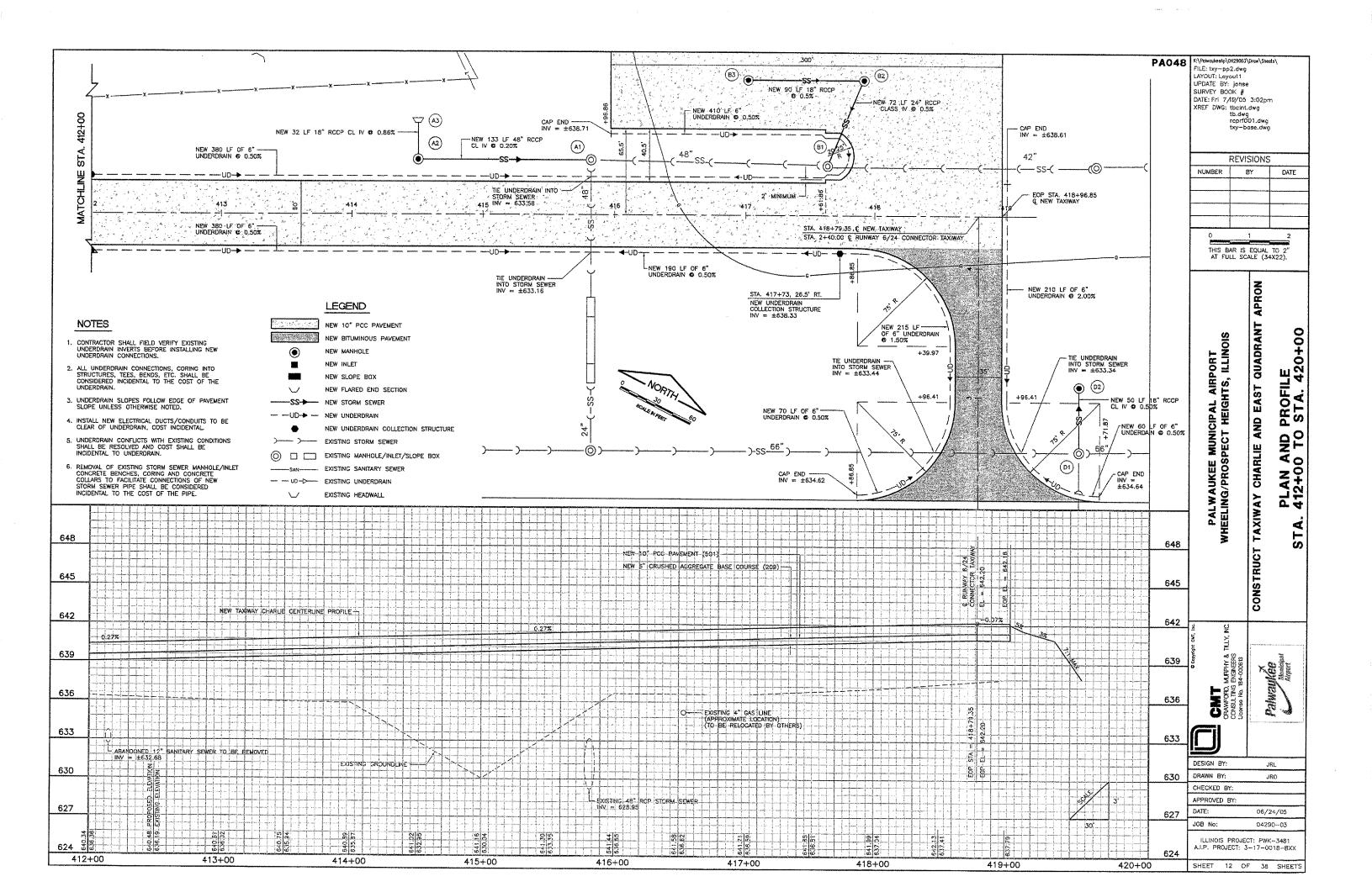
SHEET 7 OF 38 SHEETS

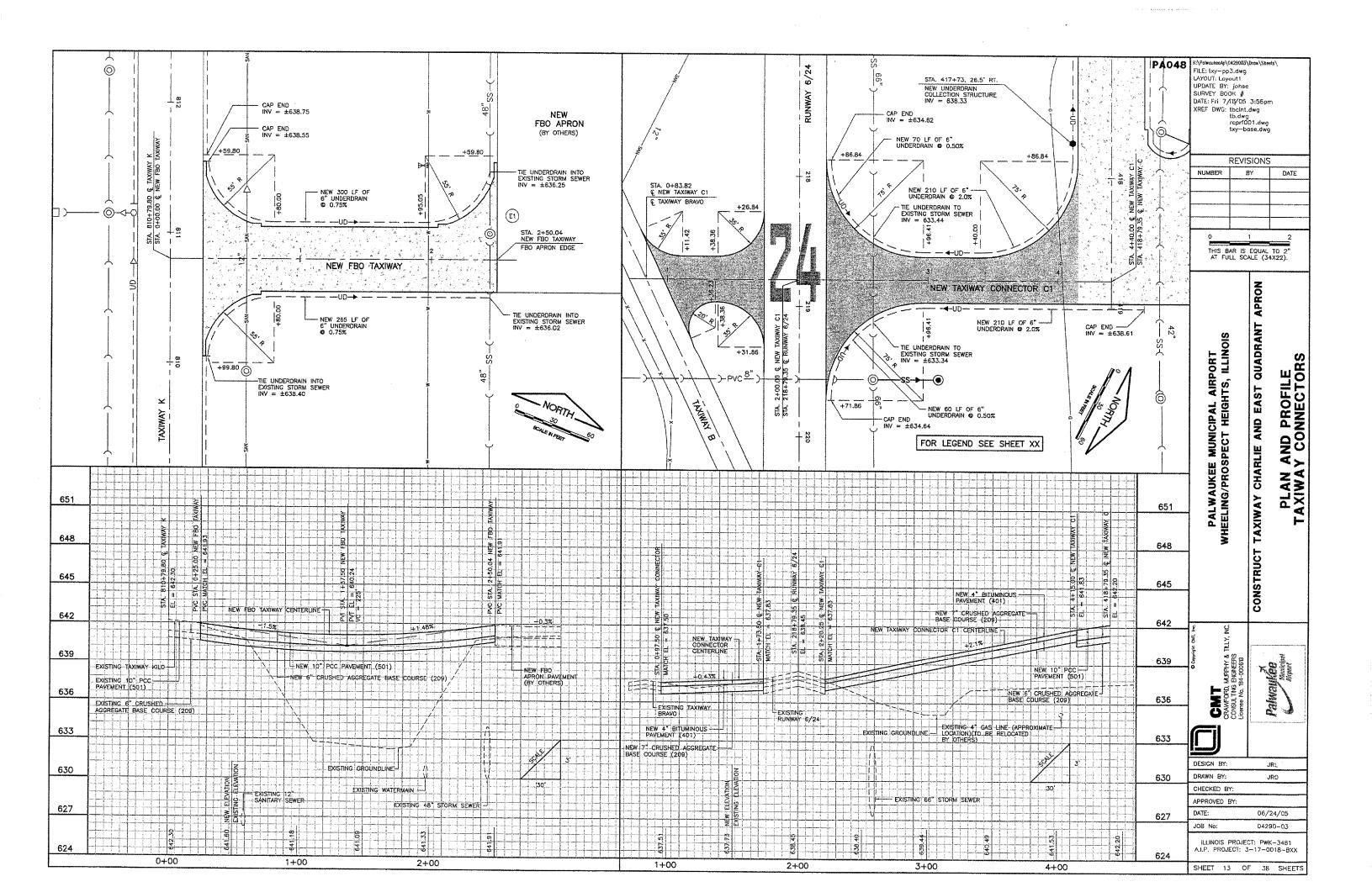


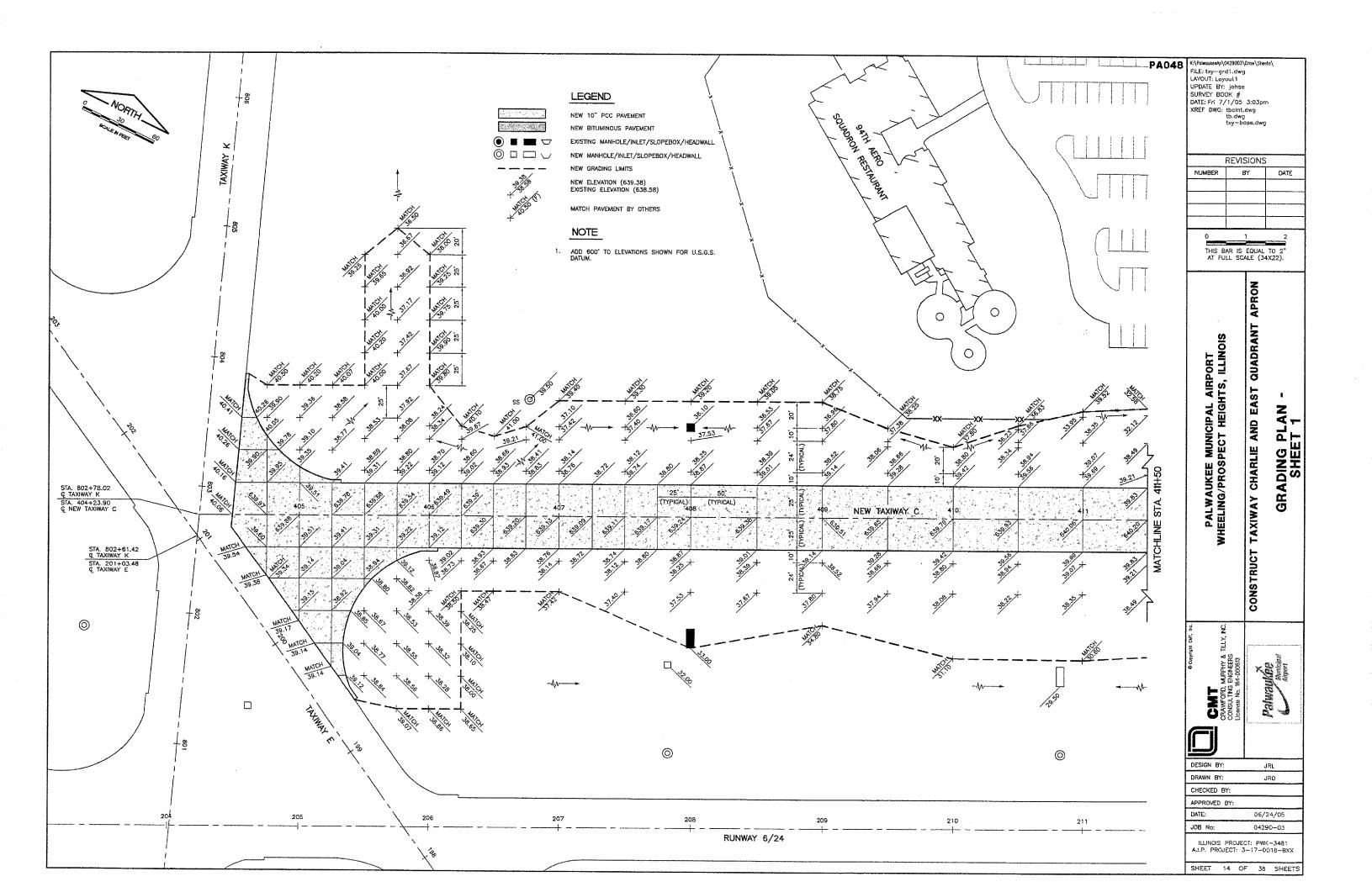


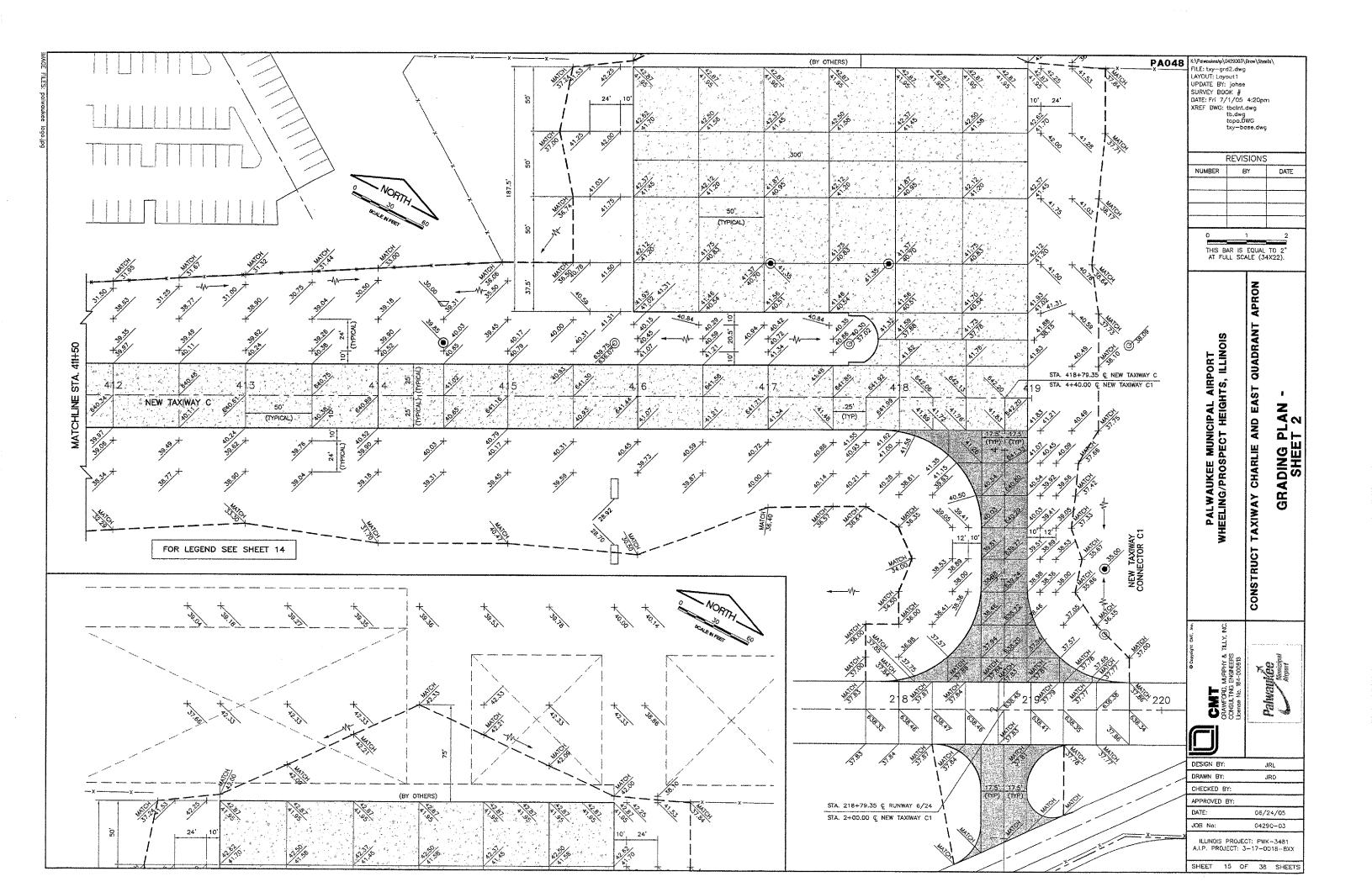


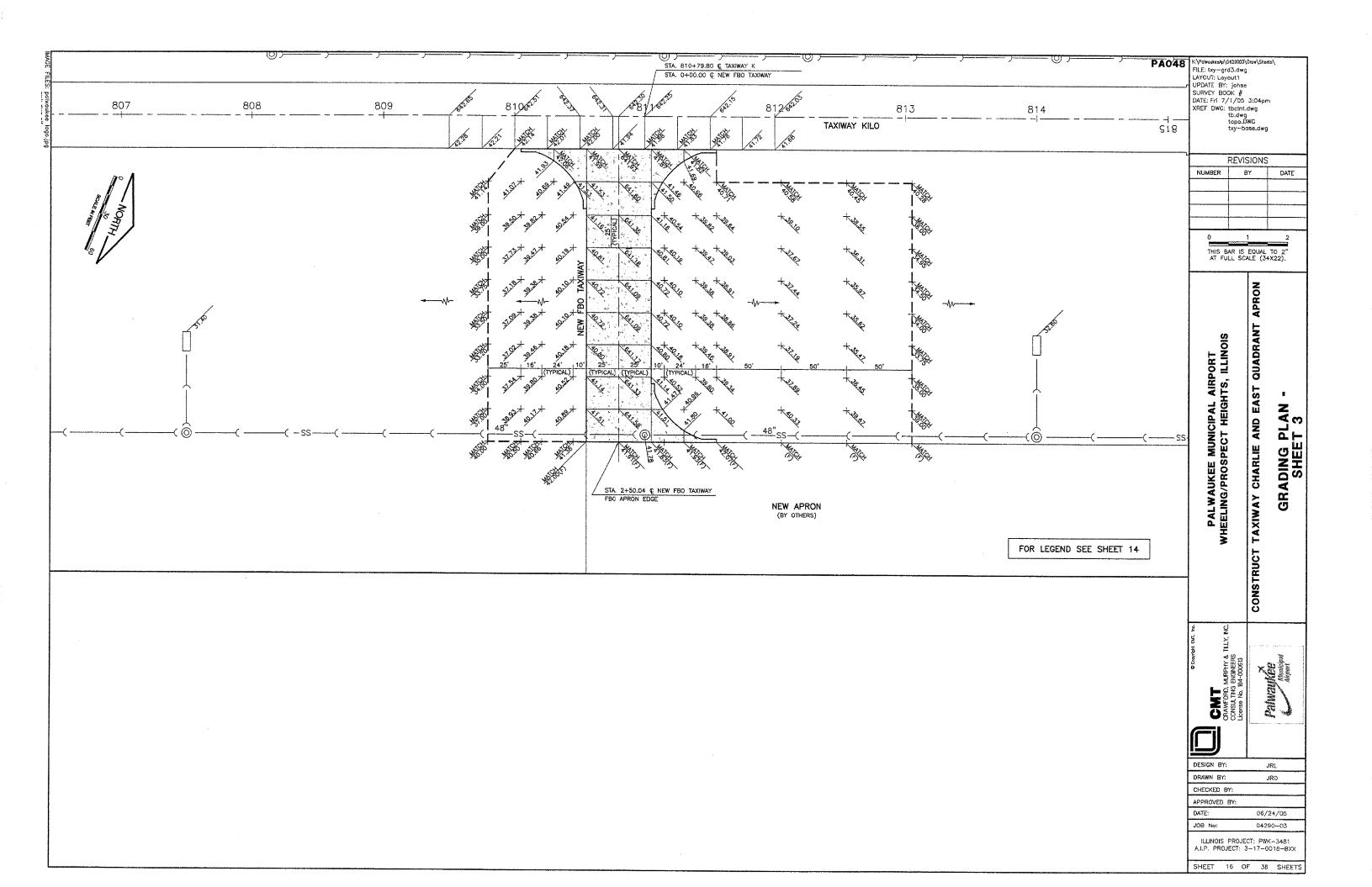


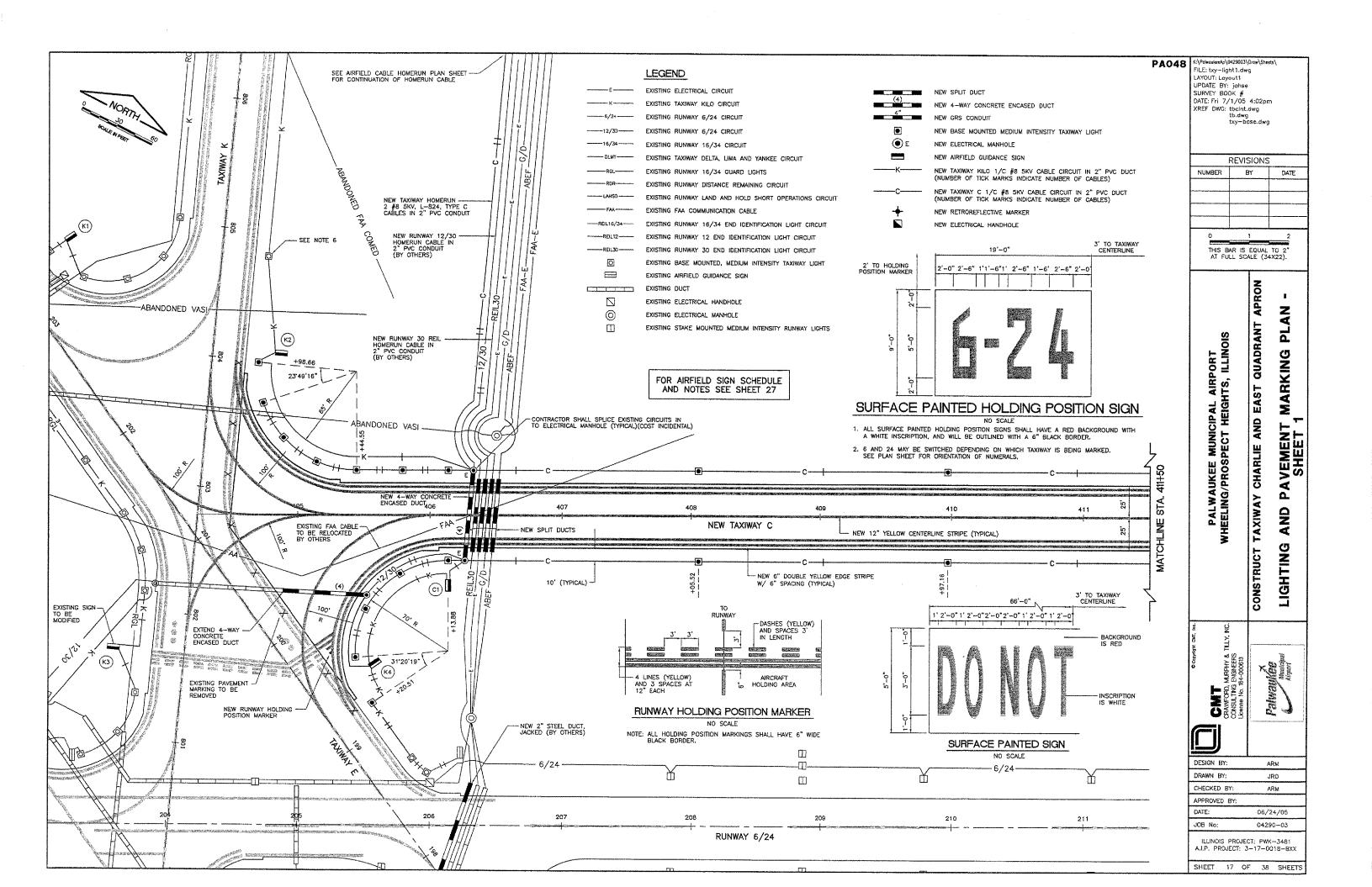


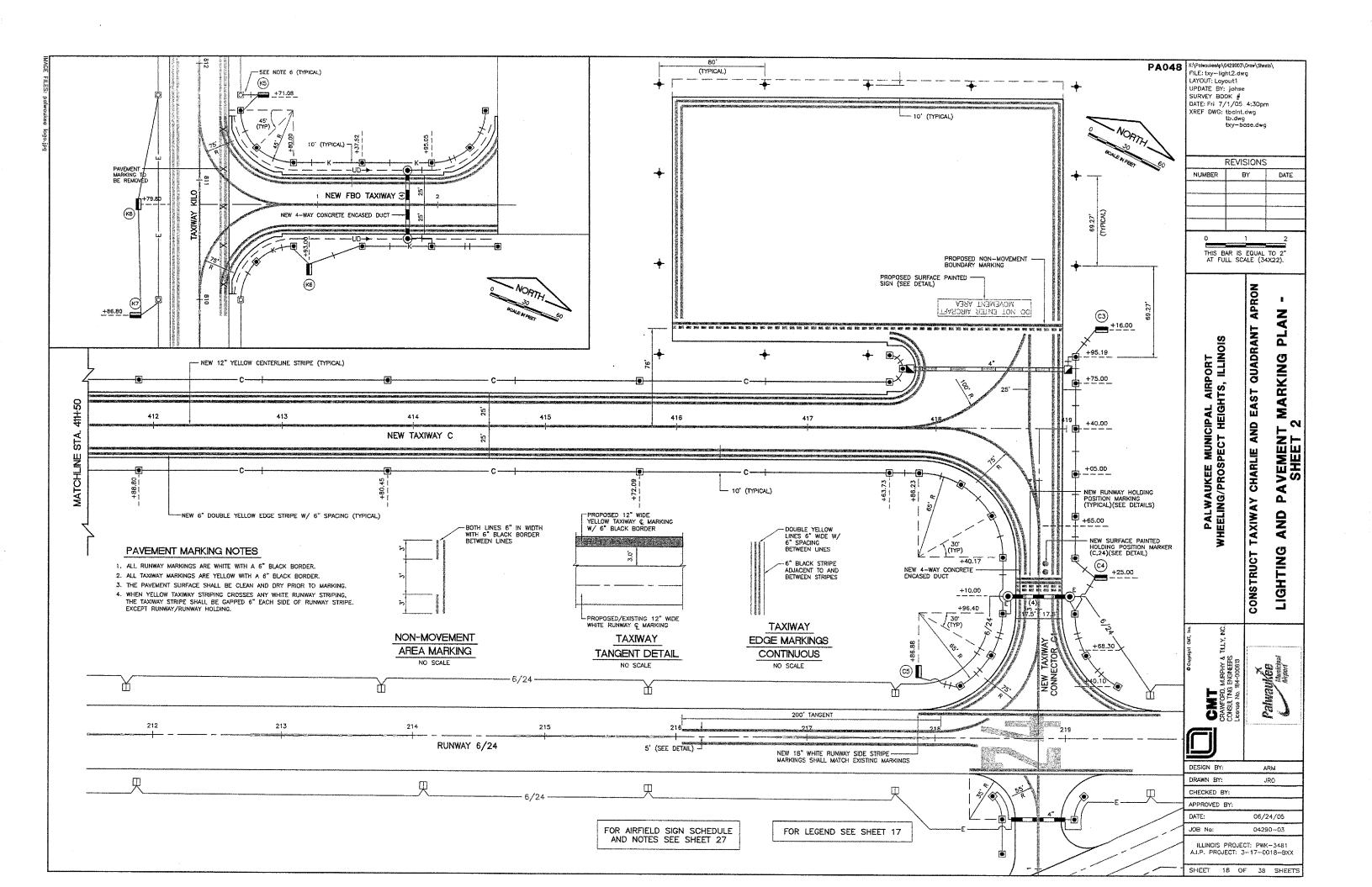


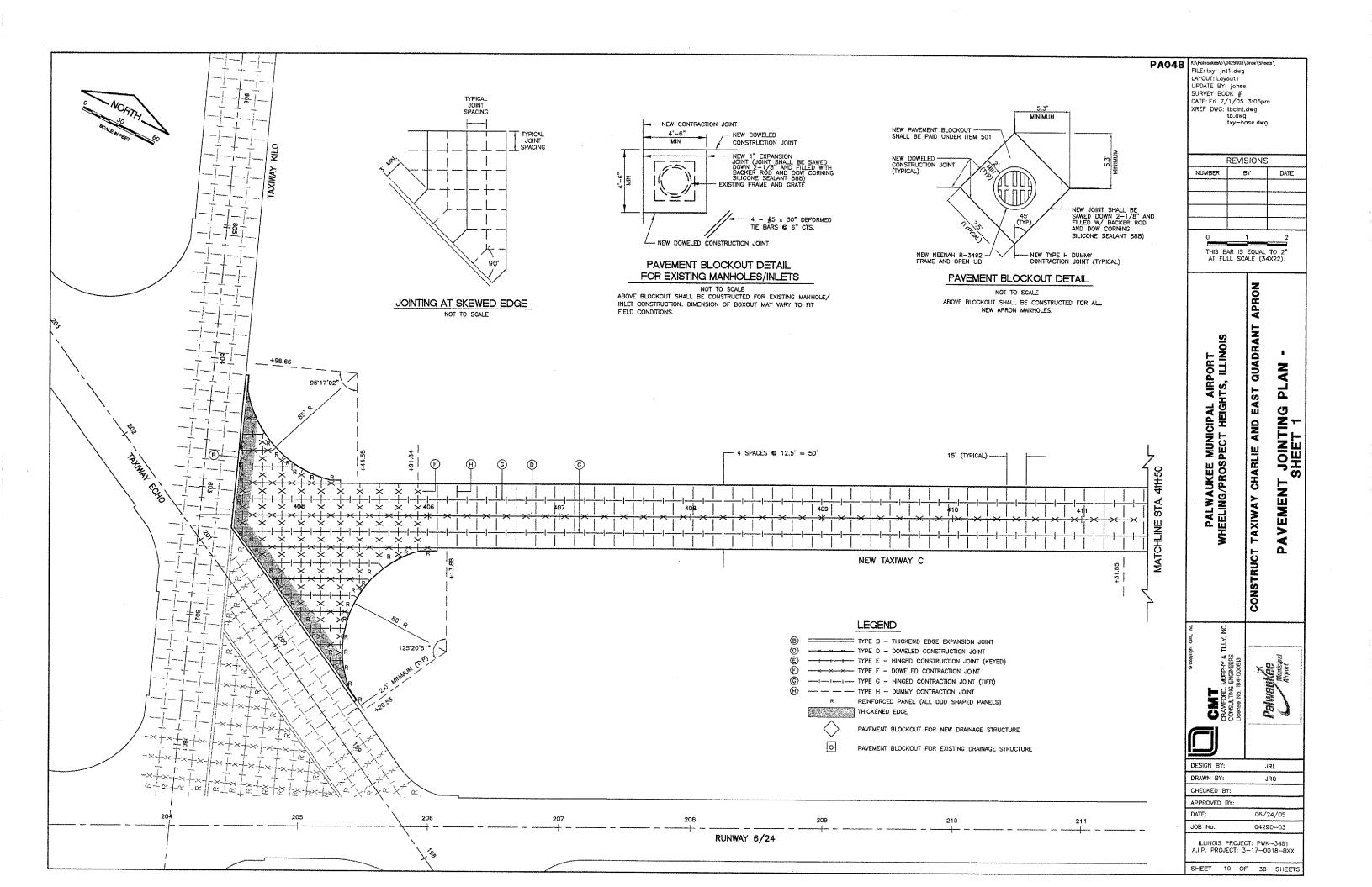


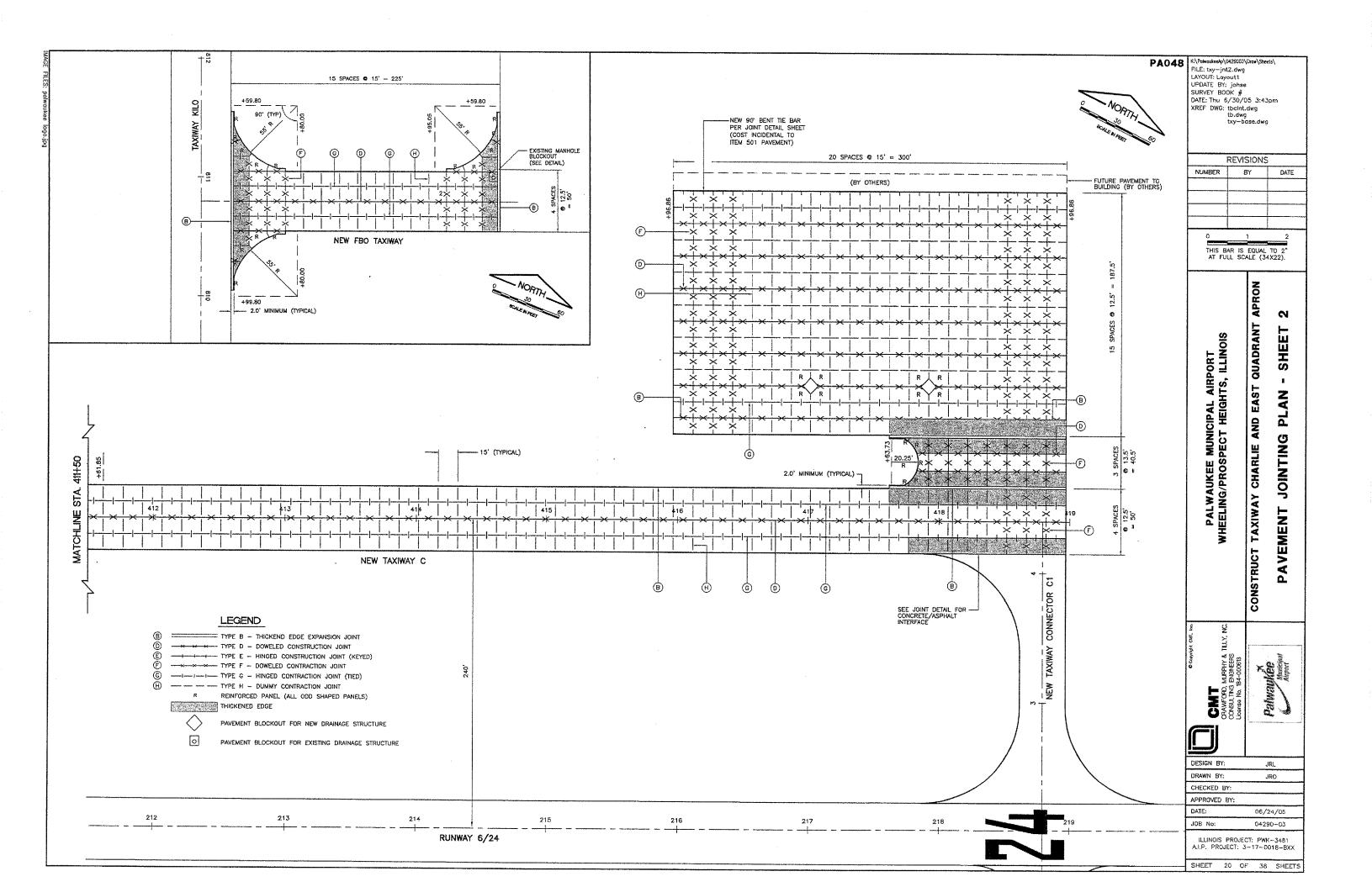


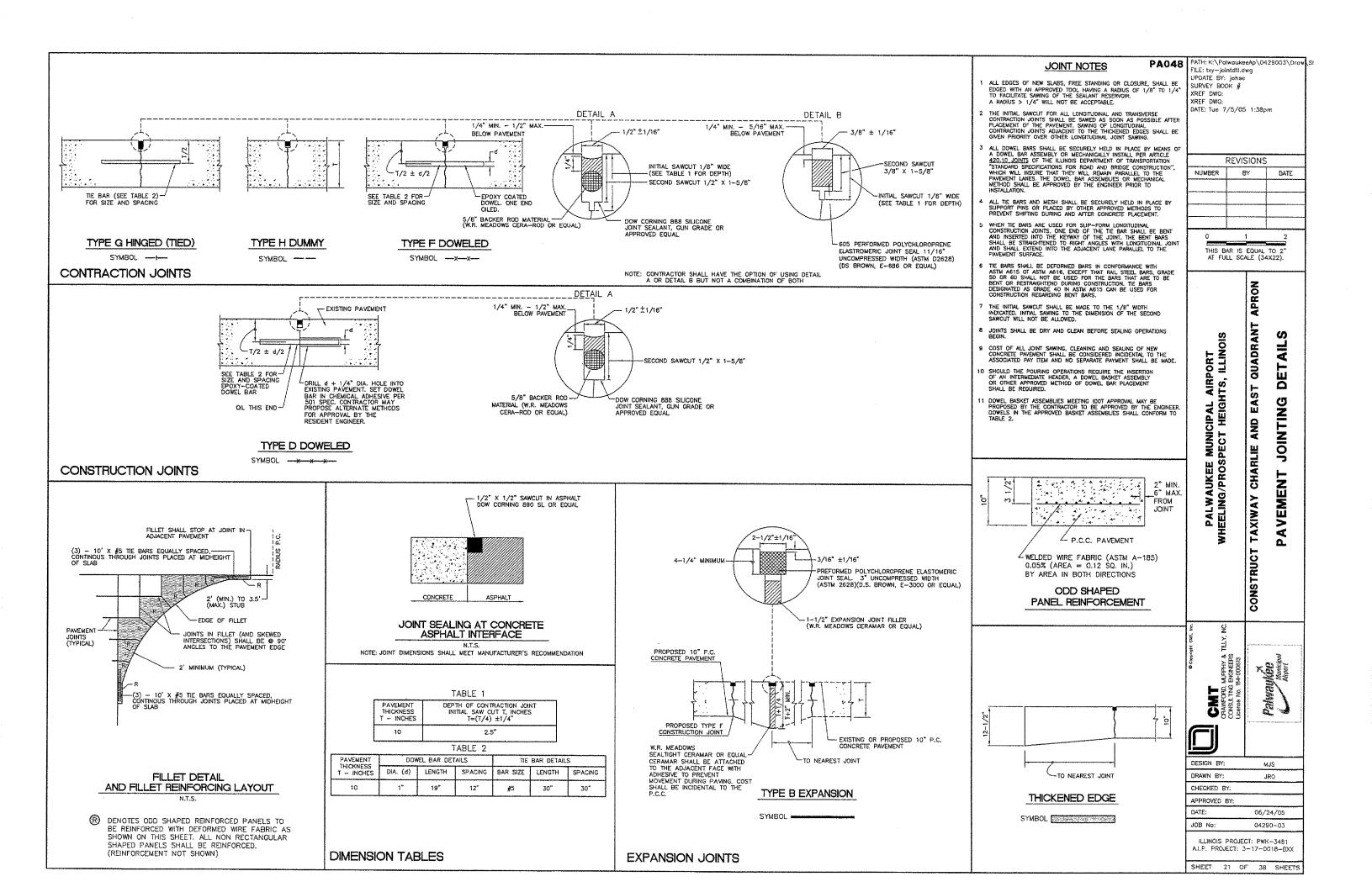


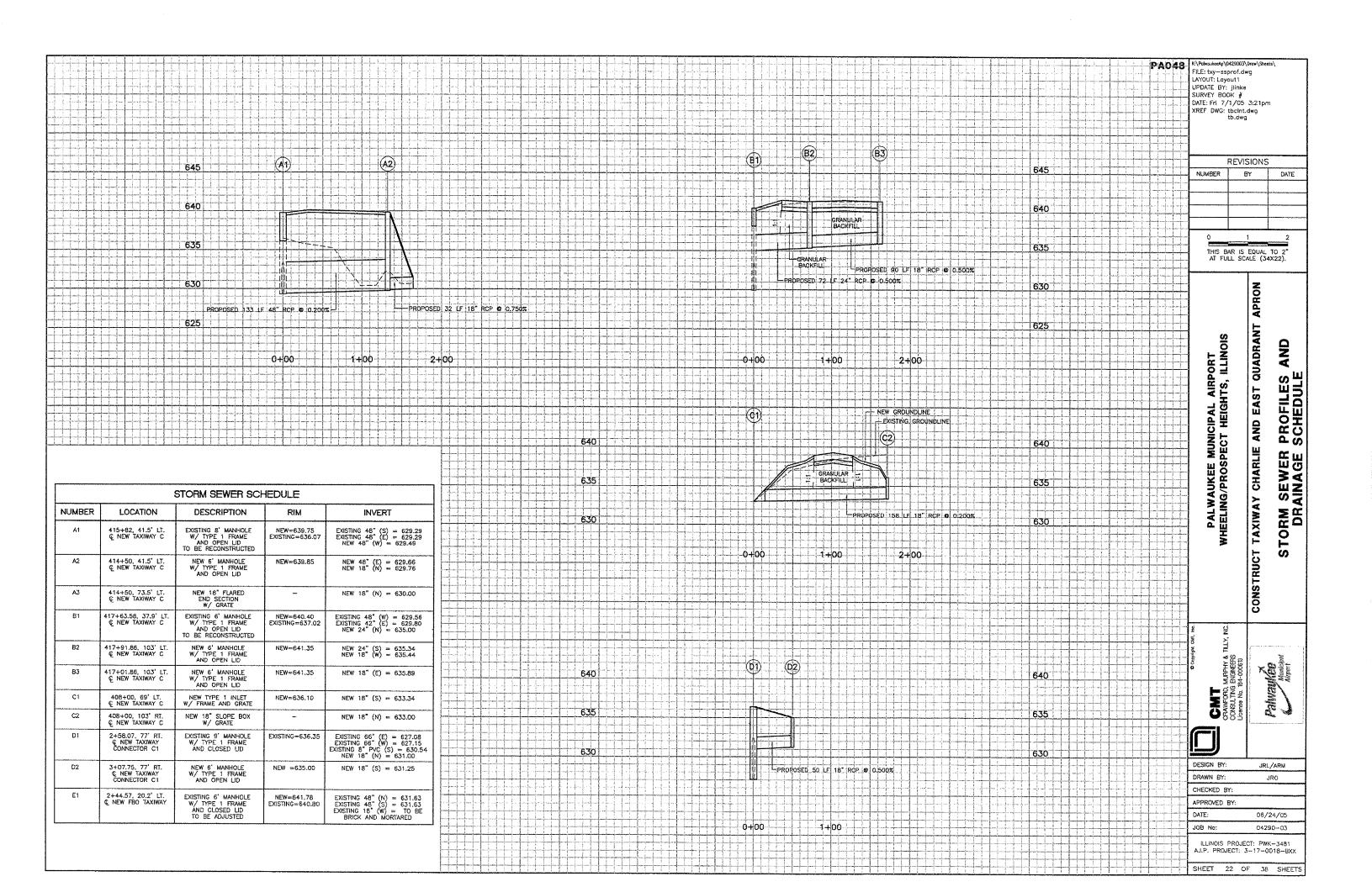


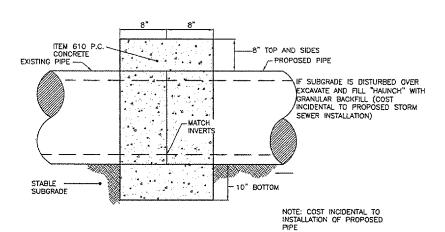






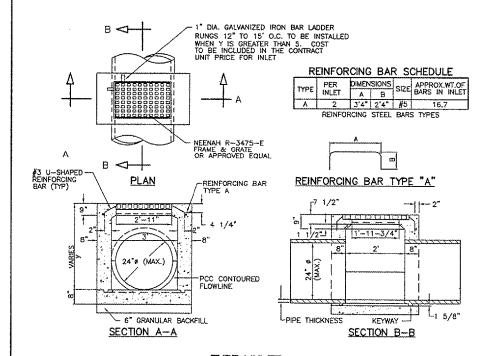






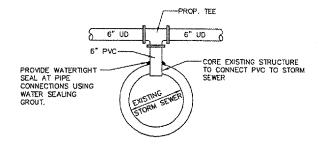
CONCRETE COLLAR - STORM SEWER

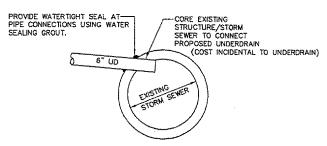
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NOTES

- 1. 1/2" CHAMFER TO BE USED ON ALL EXPOSED CORNERS ON INLETS. BARS TO BE INSTALLED 2" FROM FACE OF WALL.
- INLET TO BE CONSTRUCTED OF STRUCTURAL P.C. CONCRETE. THE CONTRACT UNIT PRICE FOR INLET SHALL INCLUDE THE GRATE AND FRAME AS SPECIFIED.



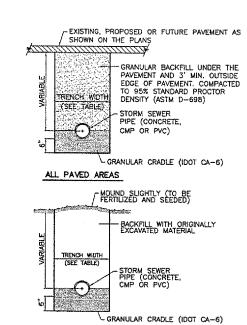


UNDERDRAIN CONNECTION DETAILS

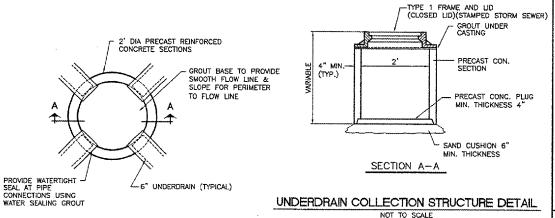
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UNDERDRAIN CONNECTIONS AND FITTINGS, TEES AND ELBOWS USED FOR CONNECTIONS TO PROPOSED STRUCTURES AND STORM SEWERS / EXISTING STRUCTURES AND STORM SEWERS, SHALL BE CONSIDERED INCIDENTAL TO THE PROPOSED UNDERDRAIN.

	INSIDE DIAMETER OF STORM SEWER (INCHES)	MAXIMUM TRENCH WIDTH	
	6	3'-7"	
	8	3'-9"	
	8 12	4'~2"	
	15	4'-6"	
	18	4'-9"	
	21	5'-0"	
	24	5'-4"	
	27	5'~7"	
1	30	5'-11"	
	36	6'-6"	
	42	7'-1"	
	48	7'-8"	
	54	8'-3"	
	60	8'~10"	
	65	9'-5"	
	72	10'-0"	
	15 18 21 24 27 30 36 42 48 54 60 65 72 78 84	10'~7"	
		11'-2"	
	90	3'-7" 3'-9" 4'-2" 4'-9" 5'-0" 5'-4" 5'-7" 5'-11" 6'-6" 7'-1" 7'-8" 8'-3" 8'-10" 9'-5" 10'-0" 11'-2" 11'-9" 12'-4"	
	96	12'4"	
1	102	12'-11"	
	108	13'-6"	



NON-PAVED AREAS



PLAN VIEW

STORM SEWER/UNDERDRAIN NOTES

- CONTRACTOR SHALL FIELD VERIFY EXISTING STORM SEWER/UNDERDRAIN 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.
- 3. UNDERDRAIN SLOPES FOLLOW EDGE OF PAVEMENT SLOPE UNLESS OTHERWISE NOTED.
- 4. INSTALL PROPOSED ELECTRICAL DUCTS/CONDUITS TO BE CLEAR OF UNDERDRAIN, COST INCIDENTAL.
- 5. UNDERDRAIN CONFLICTS WITH EXISTING CONDITIONS SHALL BE RESOLVED AND COST SHALL BE INCIDENTAL TO UNDERDRAIN.
- 6. PRIOR TO ORDERING AND INSTALLING ALL FIELD TILE REPLACEMENT PIPE, THE CONTRACTOR SHALL FIELD VERIFY 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.
- 8. BRICK AND MORTARING OF UNDERDRAIN/STORM SEWER STRUCTURES AFTER PIPE REMOVAL SHALL BE INCIDENTAL TO THE REMOVAL PAY ITEM.

PA048 PATH: K:\0329702\drow\sheets\
FILE: drndtl1.dwg
UPDATE BY: johse
SURVEY BOOK #
XREF DWG:
XREF DWG:
DATE: Sun 3/28/04 9:02am

REVISIONS
NUMBER BY DATE

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

PALWAUKEE MUNICIPAL AIRPORT
WHEELING/PROSPECT HEIGHTS, ILLINOIS
TAXIWAY CHARLIE AND EAST QUADRANT
DRAINAGE DETAILS

CANT COOPERING OUT. INCONSULTING THEY & TILY NC.
CONSULTING HOWERS
LICENSE NO. 184-000613

NAME OF THE OF THEY ARE THEY ARE THEY NO.
CONSULTING NO. 184-000613

AMAINTENDED AND AREA OF THE O

CONSTRUCT

DESIGN BY: ARM

DRAWN BY: JRO

CHECKED BY:

APPROVED BY:

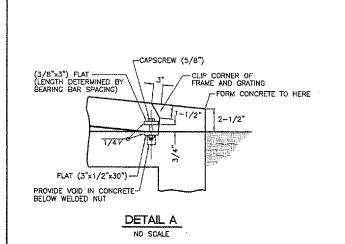
DATE: 06/24/05

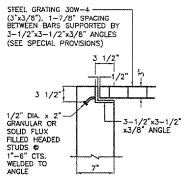
JOB No: 04290-03

ILLINOIS PROJECT: PWK-3481

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

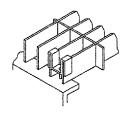
SHEET 23 OF 38 SHEETS





SECTION-B

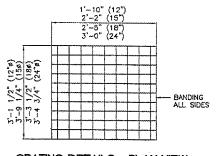
NO SCALE



PROVIDE BENT-CLIP TYPE FASTENER FOR REMOVING PANELS (STAINLESS STEEL)

SADDLE CLIP

NO SCALE



GRATING DETAILS - PLAN VIEW

NO SCALE

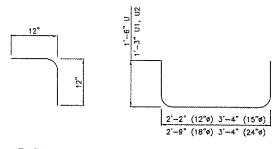
ONE SECTION OF GRATING DETAILED.

TOTAL OF 3 SECTIONS REQUIRED FOR 12" & 15".

TOTAL OF 4 SECTIONS REQUIRED FOR 18"

TOTAL OF 5 SECTIONS REQUIRED FOR 24".

SEE SPECIAL PROVISIONS FOR FURTHER DETAILS.



BAR L NO SCALE BAR U, UI AND U2 NO SCALE

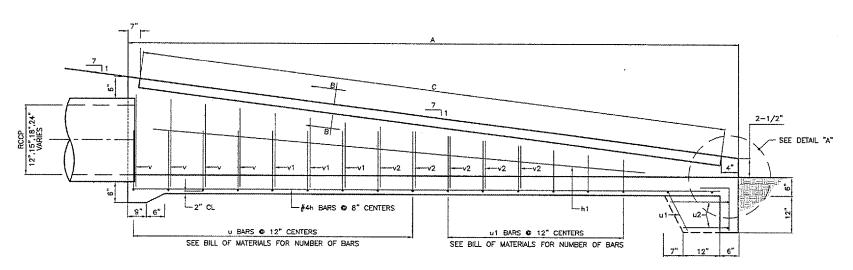
PA048

BILL OF MATERIALS INLET BOX

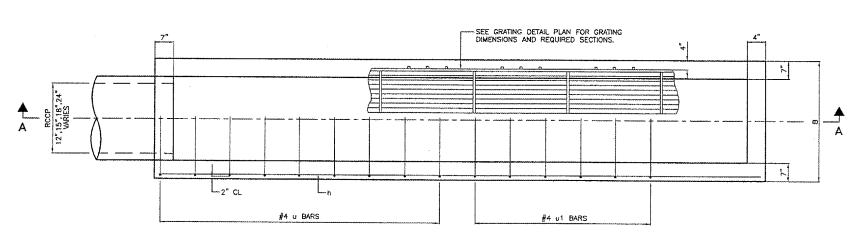
TYPE	BAR	QUANTITY	SIZE	LENGTH		
12"	h	4	#4	9'-11"		
15"	h	4	#4	11'7"		
18"	h	6	#4	13'-8"		
24"	h	6	#4	17'-6"		
12"	h1	2	#4	8'-0"		
15*	h1	2	#4	10'-0"		
18"	h1	2	#4	12'-0"		
24"	h1	2	#4	15'-0"		
12"	L	4	#4	2'0"		
15"	L	4	#4	2'-0"		
18*	L	4	#4	2'0"		
24"	L	4	#4	2'-0"		
12"	U	4	#4	5'-2"		
15"	U -	6	#4	5'~6"		
18"	U	8	#4	5'-9"		
24*	U	12	#4	5'4"		
12"	U1	4	#4	4'-8"		
15"	U1	3	#4	5'-0"		
18"	U1	4	#4	5'-3"		
24"	U1	4	#4	5'~10"		
12"	U2	2	#4	4'8"		
15"	U2	2	#4	5'-0"		
18"	U2	2	#4	5'~3"		
24"	U2	2	#4	5'-10"		
12"	V	4	#4	1'4"		
15"	V	4	#4	1'8" 1'10"		
18"	٧	6	#4	1'-10"		
24"	V	6	#4	2'~5"		
12"	V1	_	#4	_		
15"	V1 .	4	#4	1'-4"		
18"	V1	6	#4	1'-5"		
24"	V1	6	#4	2'-0"		
12"	V2	_	#4			
15"	V2		#4			
18"	V2		#4			
24°	V2	8	#4	1'-6"		
CONCE	ETE ST	RUCTURES	T	······································		
12"¢			CU.YD.	2		
15"ø			CU.YD.	2		
18"ø			CU.YD.	3		
24"ø			CU.YD.	3		
	RCEMEN	NT BARS				
12"ø	~~~~		POUND	85		
15 [*] ø			POUND POUND	100		
18"ø				145		
24"ø	24"ø POUND 200					
GRATING						
12"ø			SQ.FT.	18		
15"ø			SQ.FT.	25		
18°ø			SQ.FT.	32		
24"ø			SQ.FT.	51		
~~~~~~						

#### TABLE OF DIMENSIONS

DIMENSION	12"ø	15"ø	18"ø	24 <b>"</b> ø
Α	10'~3"	12'1"	14'0"	17'-10"
В	2'-6"	2'-10"	3'-1"	3'-8"
С	9'-5"	11'~4"	13'-3"	17'-1"



#### SECTION A-A NO SCALE

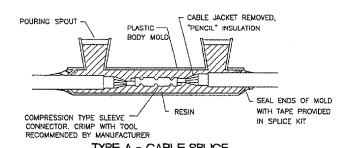


PLAN NO SCALE

MANUFACTURED BY MC CARR CONCRETE PRODUCTS OR EQUAL.

FILE: slo	ppebox.dv BY: jpe BOOK # WG: WG: ue 1/28,	<b>v</b> g to		
NUMBI		BY	DATE	
0 TH AT	IS BAR II	S EQUAL SCALE (3	2 TO 2" 4X22).	
PALWAUKEE MUNICIPAL AIRPORT	WHEELING/PROSPECT HEIGH	CONSTRUCT TAXIWAY CHARLIE AND EAST QUADRANT APRON	SLOPE BOX INLET DETAILS	
Copyright CMI, Inc.	CRAWFORD, MARPHY & TILLY, NC. CONSULTING ENGINEERS License No. 184-000638		A Municipal Municipal Municipal	
DESIGN BY: ATI				
DRAWN BY: JRO CHECKED BY:				
APPROVED BY:  DATE: 06/24/05				
JOB No: 0429003				
ILLINOIS PROJECT: PWK-3481 A.I.P. PROJECT: 3-17-0018-BXX				

SHEET 24 OF 38 SHEETS

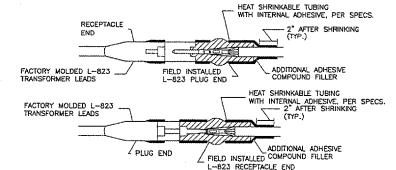


#### TYPE A - CABLE SPLICE

FOR SPLICES IN HOMERUNS AND FOR EXTENSIONS TO EXISTING CABLES ONLY HEAT SHRINKABLE TUBING WITH INTERNAL ADHESIVE HEAT SHRINKABLE TUBING WITH INTERNAL ADHESIVE SEE NOTE 2 2" AFTER SHRINKING ADDITIONAL ADHESIVE COMPOUND FILLER -UNDERGROUND CABLE SPEC. L-824, TYPICAL -RECEPTACLE END ADDITIONAL ADHESIVE COMPOUND FILLER

#### TYPE B - CABLE SPLICE

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



#### TYPE C AND D - CABLE SPLICE

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

#### NOTES

- 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.
- 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.

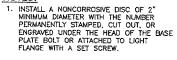
CIRCUIT DESIGNATION

**C-23** 

LIGHT DESIGNATION

## HOOKS (TYP) MIN 2" PVC CONDUIT (LOCATIONS SHOWN ON PLANS) FRENCH DRAIN

#### NOTES:



- 2. NUMERALS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY, ALL EXISTING AND PROPOSED TAXIWAY AND RUNWAY LIGHTS 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 SEPERATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

#### LIGHT IDENTIFICATION DETAIL NOT TO SCALE

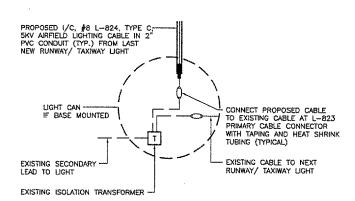
2. FRAME AND COVER SHALL BE NEENAH R6662-HH OR EQUAL.

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

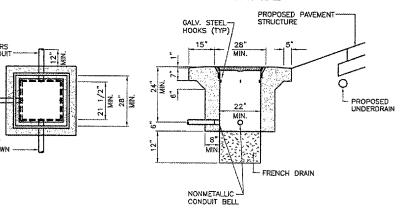
#### TURF AREA CABLE TRENCH DETAIL

#### **NOTES**

- TRENCHES WITH MORE THAN 2 CABLES SHALL BE INCREASED 3" IN WIDTH FOR EACH ADDITIONAL CABLE. IF SPECIFIED ON PLANS, TWO PARALLEL TRENCHES MAY BE CONSTRUCTED.
- 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.



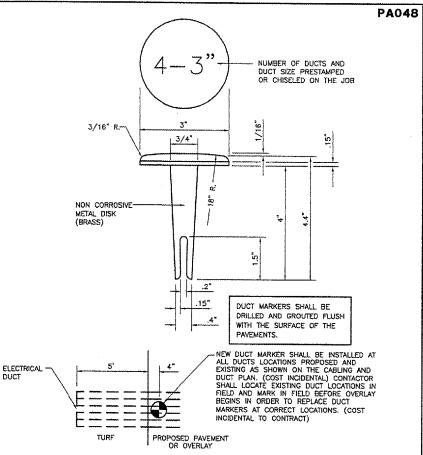
#### RUNWAY/TAXIWAY LIGHTING CIRCUIT CONNECTION DETAIL



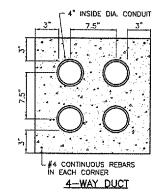
#### CONCRETE HEAVY DUTY ELECTRICAL HANDHOLE DETAIL IDOT STANDARD NO. 841001

#### NOTE

- 1. CONDUIT ENTRANCES AND NUMBER OF CONDUITS SHALL BE AS SHOWN ON SITE PLAN VIEW.
- 3. COVER SHALL BE STAMPED "ELECTRICAL".



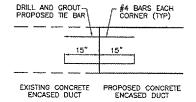
#### **DUCT MARKER DETAIL**



#### NOTES:

- 2. CONCRETE SHALL CONFORM TO ITEM 610.
- 3. ALL CONDUIT SHALL BE SCHEDULE 40 PVC.
- 4. TOP OF CONCRETE ENCASEMENT IN TURF AREAS SHALL NOT BE LESS THAN 24" BELOW FINISHED GRADE.
- 5. 4" SPLIT DUCT SHALL BE CONCRETE ENCASED WITH 3" MIN. CONCRETE SURROUNDING 4" CONDUIT.COST INCIDENTAL TO SPLIT

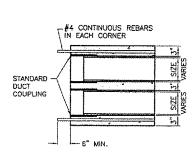
#### CONCRETE ENCASED DUCT BANK



DUCT

#### EXTENSION OF EXISTING DUCT

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



#### CONCRETE ENCASED DUCT END DETAIL NO SCALE

DATE: Fri 7/1/05 3:08pm XREF DWG: tbcInt.dwg tb.dwg txy-base.dwg REVISIONS NUMBER BY DATE THIS BAR IS EQUAL TO 2' AT FULL SCALE (34X22). QUADRANT PALWAUKEE MUNICIPAL AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS CHARLIE TAXIWAY CONSTRUCT **8** ARM JRO CHECKED BY APPROVED BY: 06/24/05 04290-03 ILLINOIS PROJECT: PWK-3481 A.I.P. PROJECT: 3-17-0018-BXX

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FILE: txy-elec-dtl1.dwg

LAYOUT: Layout1

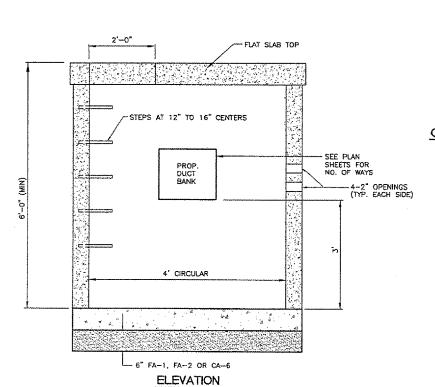
UPDATE BY: ilinke

SURVEY BOOK #

SHEET 25 OF 38 SHEETS

#### **GENERAL NOTES**

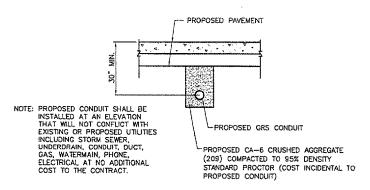
- THE CONCRETE BASE FOR BASE MOUNTED LIGHTS SHALL BE TROWEL FINISHED WITH A 45' BEVELED EDGE, SLOPE TO DRAIN (610 CONCRETE).
- 2. TRANSFORMER HOLDER MAY BE ANY COMMERCIALLY AVAILABLE BRICK.
- 3. BREAKING GROOVE COUPLINGS SHALL NOT BE OVER 1" ABOVE GROUND LINE.
- 4. ISOLATION TRANSFORMERS COME WITH A 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.
- 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.
- ALL LIGHTS, CABLES AND TRANSFORMERS TO BE REMOVED SHALL REMAIN THE THE PROPERTY OF THE AIRPORT. AT THE DISCRETION OF THE ASSISTANT MANAGER THE CONTRACTOR MAY BE REQUIRED TO DISPOSE OF THESE MATERIALS OFFSITE.
- TAXIWAY LIGHTS SHALL HAVE A BLUE LENS. RUNWAY LIGHTS SHALL HAVE A CLEAR LENS OR 180' CLEAR/YELLOW SPLIT LENS AND THRESHOLD LIGHTS SHALL HAVE A 180' RED/GREEN SPLIT LENS.
- B. DUCT MARKERS SHALL BE INSTALLED AT EVERY NEW DUCT AND AT EVERY EXISTING DUCT USED FOR THIS PROJECT.



## ELECTRICAL MANHOLE NOT TO SCALE

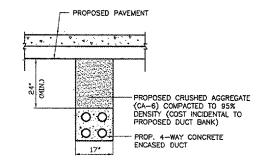
#### NOTES

- 1. ELECTRICAL MANHOLE (4' DIA.) SHALL BE PER IDOT STANDARD 602406 AS MODIFIED BY DETAIL ON THE PLANS.
- ECCENTRIC AND CONCENTRIC CONE TOPS SHALL NOT BE USED. PRECAST REINFORCED CONCRETE FLAT SLAB TOP SHALL BE USED PER IDOT STANDARD 602601 AND 602406.
- USE TYPE 1 FRAME AND LID MARKED "ELECTRIC" PER IDOT STANDARD 604001
- PROPOSED ELECTRICAL MANHOLE SHALL ACCOMODATE 4--2" OPENINGS ON EACH SIDE OF THE MANHOLE.



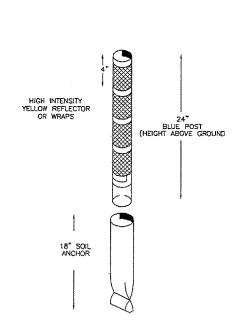
#### GRS CONDUIT UNDER PROPOSED PAVEMENT DETAIL

NOT TO SCALE



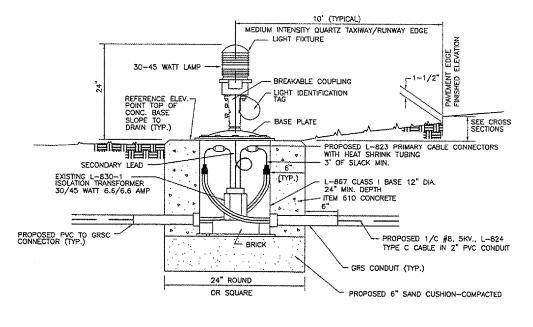
#### CONC ENCASED (4-WAY) ELECTRICAL DUCT BACKFILL

NO SCALE

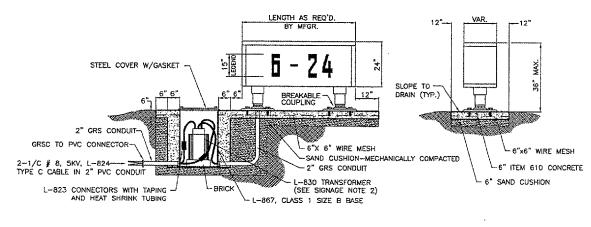


## TAXIWAY RETROFLECTIVE MARKER DETAIL NOT TO SCALE

NOTE: RETROFLECTIVE MARKER SHALL BE UNIPAR, INC. EVAFLEX OR APPROVED EQUAL.



### PROPOSED BASE MOUNTED MEDIUM INTESITY LIGHT



#### PROPOSED AIRFIELD SIGN L-858

NOT TO SCALE

#### SIGNAGE NOTES

- 1. ALL SIGNS ARE 2-SIDED SIGNS. STYLE 2 AND CLASS 2 AS MANUFACTURED BY SIEMENS OR APPROVED EQUAL.
- 2. TRANSFORMER WATTAGE AS RECOMMENDED BY MANUFACTURER
- 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 DETERNINE PROPOSED SPACING AND OTHER INFORMATION REQUIRED BY SPECIAL PROVISIONS. CONTRACTOR TO VERIFY PROPOSED SIGN LOCATIONS AND ORIENTATIONS WITH RESIDENT ENGINEER PRIOR TO INSTALLATION. PROPOSED SIGNS SHALL BE LUMACURVE, INC. OR EQUAL.

PA048

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FILE: bxy~elec~dtl1.dwg
LAYOUT: Layout1
UPDATE BY: jlinke
SURVEY BOOK #
DATE: Fir 7/1/05 3:08pm
XREF DWG: tbcInt.dwg
tb.dwg
txy~bose.dwg

REVISIONS

NUMBER BY DATE

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

CONSTRUCT TAXIWAY CHARLIE AND EAST QUADRANT APRON

CANT GRAVEOUS MAPHY & ILLY, NC CONSULTING ENGINEERS LEGINGS IN 184-000618

Palwaukee

DESIGN BY: ARM

DRAWN BY: JRO

CHECKED BY:

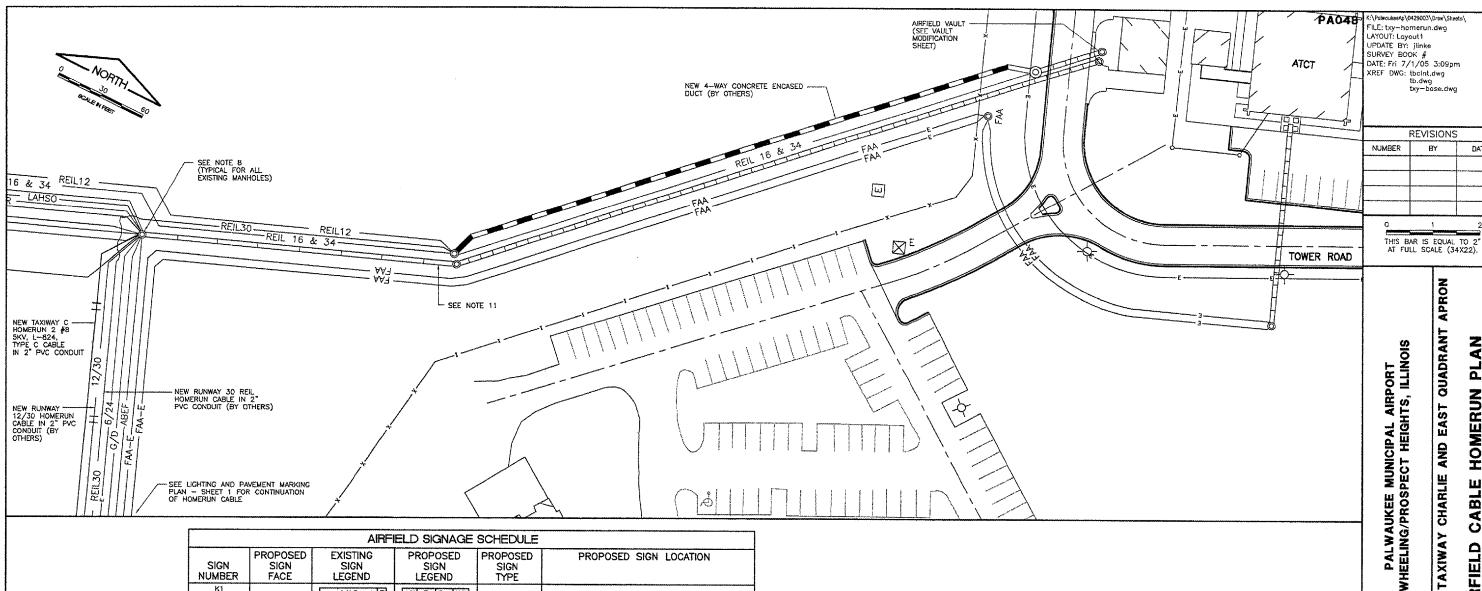
APPROVED BY:

DATE: 06/24/05

JOB No: 04290-03

ILLINOIS PROJECT: PWK-3481 A.I.P. PROJECT: 3-17-0018-BXX

SHEET 26 OF 38 SHEETS



AIRFIELD SIGNAGE SCHEDULE						
SIGN NUMBER	PROPOSED SIGN FACE	EXISTING SIGN LEGEND	PROPOSED SIGN LEGEND	PROPOSED SIGN TYPE	PROPOSED SIGN LOCATION	
K1 SIGN REMOVAL/ REPLACEMENT	NW SE	E • K•	♥K⊯C E K±	3,2,3,3 2	STA. 203+46.58, 50' RT. Q TAXIWAY E	
K2 SIGN REMOVAL/ REPLACEMENT	N S	#E K# 16 <b>±</b>	K ←C ★E ★61	3,3,2 3	STA. 804+07.35, 50' RT. Ç TAXIWAY K	
K3 (SIGN MODIFICATION)	N S	34-6 30-12 K	K C	2,1,1 2,3	STA. 801+69.87, 50' LT. © TAXIWAY K	
K4	NW SE	9-+7 3 E K # 16 #	9-1/2 3 E K# C#	1,2 2,3,3	STA. 199+80.53, 77.1' RT. Q TAXIWAY E	
K5	8 2	N.A.	ж	2 2	STA. 811+72.80, 50' RT. @ TAXIWAY K	
К6	<b>W</b> E	N.A.	BLAUK	0 3	STA. 0+93.00, 50' RT. @ A	
К7	2 2	N.A.	BFYNK X	0 2	STA. 809+86.80, 50' LT. @ TAXIWAY K	
кв	W E	N.A.	XNV18 <b>◆</b> 34 16 <b>◆</b>	0 3,3	STA. 810+79.80, 50' LT. @ TAXIWAY K	
C1	W E	N.A.	<b>◆K</b>  ₩E  C  E# K#	2 3,3,2,3,3	STA, 406+13.88, 50 RT. C TAXIWAY C	
<b>C</b> 3	<b>X</b> S	N.A.	* BLANK	. 1	STA. 3+16.00, 42.5' RT. C TAXIWAY C1 EXTENDED	
C4	r s	N.A.	P-S4	1,2 2	STA. 1+25.00, 50' RT. Q TAXIWAY C1	
C5	W E	N.A.	3 <del>*</del>	3 0	STA. 217+86.87, 46.4° LT. C RUNWAY 6/24	

#### PROPOSED SIGN TYPE LEGEND

- O --- BLANK PANEL -- BLACK

  1 --- RUNWAY/TAXWAY HOLDLINE -- WHITE LEGEND ON RED BACKGROUND

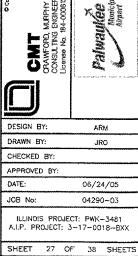
  2 --- LOCATION SIGN -- YELLOW LEGEND ON BLACK BACKGROUND

  3 --- DIRECTION/INFORMATION SIGN --- BLACK LEGEND ON YELLOW BACKGROUND

  *--- DO NOT ENTER AIRCRAFT MOVEMENT AREA

#### NOTES:

- ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER AIRPORT ELECTRICAL CABLES SHALL REMAIN IN SERVICE UNTIL REPLACED AS DIRECTED BY THE ENGINEER, ALL TEMPORARY CABLING AND SPLICING SHALL BE CONSIDERED INCIDENTAL TO CONTRACT.
- AT ANY LOCATION WHERE THE PROPOSED DUCT OR CABLE ROUTE CROSSES AN EXISTING UTILITY, THE CONTRACTOR SHALL HAND DIG AND LOCATE THE EXISTING UTILITY PRIOR TO TRENCHING. COST OF LOCATING ALL EXISTING UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT.
- THE LOCATION OF EXISTING UTILITIES ARE APPROXIMATE, THE CONTRACTOR SHALL OPEN THE ENTIRE TRENCH BETWEEN MANHOLES BEFORE ANY CONDUIT IS LAID TO ASCERTAIN THE EXISTENCE AND POSITION OF ANY OBSTRUCTIONS.
- 4. CONTRACTOR SHALL COORDINATE THE LOCATION OF THE EXISTING AND PROPOSED UTILITIES PRIOR TO INSTALLATION OF THE PROPOSED UNIT DUCTS, CONDUITS AND DUCT BANKS, ANY DAMAGES TO EXISTING UTILITIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL PROVIDE PULL WIRE FOR ALL DUCT BANKS AND CAP THE UNUSED DUCT BANKS FOR FUTURE USE.
- CONTRACTOR SHALL CONNECT EXISTING CABLE TO PROPOSED CABLE IN SIGN/LIGHT/MANHOLE/HANDHOLE. COST OF CONNECTION INCIDENTAL TO CABLE.
- 7. NO 90 DEGREE BENDS WILL BE ALLOWED IN CONDUIT.
- 8. CONTRACTOR SHALL CORE HOLES INTO EXISTING MANHOLES. THE COST OF CORING AND GROUTING SHALL BE INCIDENTAL TO THE INSTALLATION OF THE PROPOSED CABLE.
- 9. ALL LIGHTS AND SIGNS SHALL HAVE QUARTZ BULBS.
- AT EXISTING DUCT BANKS THAT FALL WITHIN THE PROPOSED P.C.C. PAVEMENT, THE CONTRACTOR SHALL STAMP THE DUCT LOCATION, AS DIRECTED BY THE ENGINEER, IN THE PROPOSED P.C.C..
- 11. INSTALL 2-1/C #8, 5KV, L-824 TYPE C CABLE FOR TAXIWAY C CIRCUIT IN EXISTING DUCT BANK TO THE VAULT.



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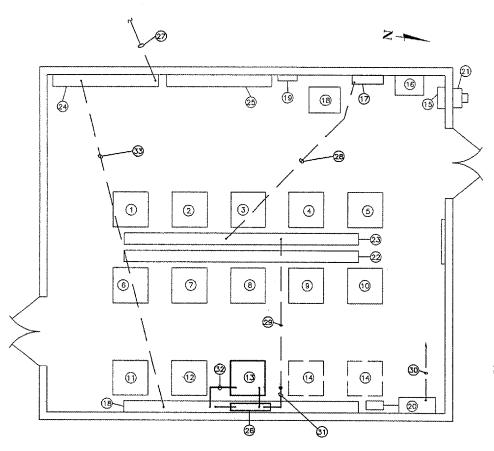
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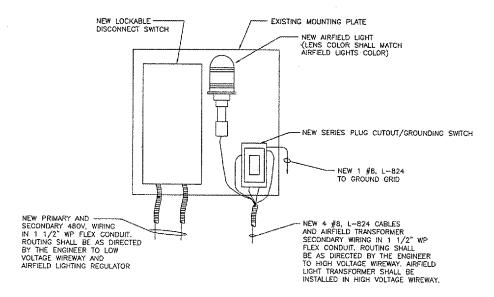
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ALL PROPOSED WORK OR ITEMS BEING MODIFIED ARE SHOWN IN BOLD. ALL OTHER ITEMS SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY.

#### PROP. AIRFIELD ELECT. VAULT PLAN VIEW



#### **EOUIPMENT MOUNTING PLATE DETAIL**

N.T.S.

#### PROPOSED VAULT NOMENCLATURE

- 1 EXISTING 30KW (5-STEP) REGULATOR FOR RUNWAY 16/34
- 2 EXISTING 20KW (5-STEP) REGULATOR FOR RUNWAY 6/24.
- 3 EXISTING 20KW (5-STEP) REGULATOR FOR RUNWAY 12/30.
- (4) EXISTING 10KW (3-STEP) REGULATOR FOR TAXIWAY G,D AND 34 HOLD APRON.
- (5) EXISTING 10KW (3-STEP) REGULATOR FOR RUNWAY 16/34 RDR.
- (6) EXITSTING 15KW (3-STEP) REGULATOR FOR RUNWAY 16/34 RGL.
- (7) EXISTING 10 KW (3-STEP) REGULATOR FOR RUNWAY 16 APPROACH LIGHTING.
- (8) EXISTING 10 KW (3-STEP) REGULATOR FOR HFC APRON LIGHTING.
- (9) EXISTING 10KW (3-STEP) REGULATOR FOR TAXIWAY A,B,E AND F.
- (10) EXISTING 20KW (3-STEP) REGULATOR FOR TAXIWAY K.
- (1) EXISTING 30 KW (5-STEP) REGULATOR FOR SPARE (STAND-BY) USE.
- (12) EXISTING 30KW (3-STEP) REGULATOR FOR TAXIWAY D.L.M.N AND Y.
- (3) NEW 10KW (3-STEP) REGULATOR FOR TAXIWAY C. PROVIDE NEW 30A, 2-POLE DISCONNECT SWITCH.
- (14) FUTURE AIRFIELD LIGHTING REGULATOR.
- $\ensuremath{\textcircled{\scriptsize 19}}$  Existing main utility service circuit breaker disconnect. Booa, 480v, 3-Pole.
- (16) EXISTING AUTOMATIC TRANSFER SWITCH. BOOA, 480V, 3-POLE.
- (1) EXISTING HIGH VOLTAGE POWER DISTRIBUTION PANEL. 480V, 3-PHASE WITH BOOAMP MAIN CIRCUIT BREAKER. INSTALL 1-30A, 2-POLE CIRCUIT BREAKER IN EXISTING PANELBOARD.
- (18) EXISTING 150KVA, 480V-280Y/120V, 3ø, 4-WIRE TRANSFORMER.
- (9) EXISTING LOW VOLTAGE LIGHTING PANEL. 208Y/120V, 3-PHASE WITH 400AMP MAIN CIRCUIT BREAKER.
- $\bigodot$  Existing PLC control cabinet to be modified. See vault control details sheet.
- 21) EXISTING BOOAMP CT CABINET.
- 22 EXISTING 12"x12"x12' LONG HIGH VOLTAGE WIREWAY.
- 23 EXISTING 12"X12"x12' LONG LOW VOLTAGE WIREWAY.
- (24) EXISTING 12"x12"x9" LONG HIGH VOLTAGE WIREWAY. HOMERUN CABLES FOR PROPOSED TAXIMAY C. CIRCUIT SHALL BE TIED INTO SECONDARY CABLES FROM REGULATOR IN WIREWAY USING L-823 CONNECTORS. CONNECTORS SHALL BE TAPED AND LABELED.
- (25) EXISTING 12"x12"x9" LONG LOW VOLTAGE WIREWAY.
- (28) NEW REGULATOR EQUIPMENT MOUNTING PLATE. CONTRACTOR SHALL INSTALL SERIES PLUG CUT-OUT, ARRIELD LIGHT AND PRIMARY 30A, 2-POLE POWER DISCONNECT FOR TAXIWAY C REGULATOR ON MOUNTING PLATE. SEE MOUNTING PLATE DETAIL THIS SHEET. MATCH WITH EXISTING CONDITIONS.
- (2) NEW 2-1/C #8 5KV, L-824 AIRFIELD CABLES FOR TAXIWAY C CIRCUIT IN EXISTING 4" CONDUIT TO EXISTING MANHOLE EMH 2.
- (28) NEW 2 #8 THWN, 1 #10 GND. IN EXISTING 4" GRS CONDUIT FOR TAXIWAY C REGULATOR.
- 29 NEW 2 #8 THWN, 1 #10 GND. (POWER) AND 4 #12 THWN (CONTROLS) IN EXISTING 1-1/2" GRS CONDUIT.
- (3) NEW 4 #12 THWN CONTROL WIRES IN EXISTING 4" GRS CONDUIT TO LOW VOLTAGE WIREWAY.
- (3) NEW 2 #8 THWN, 1 #10 GND. (POWER) AND 4 #12 THWN (CONTROL) IN 1-1/2" WP/FLEX CONDUIT. (PROVIDE 3' MIN. SLACK)
- (PROVIDE 3' MIN. SLACK) SIN 1" WP/FLEX CONDUIT.
- (33) NEW 2 #8, 5KV, L~824, TYPE C CABLES IN EXISTING 4" CONDUIT TO HIGH VOLTAGE WIREWAY.

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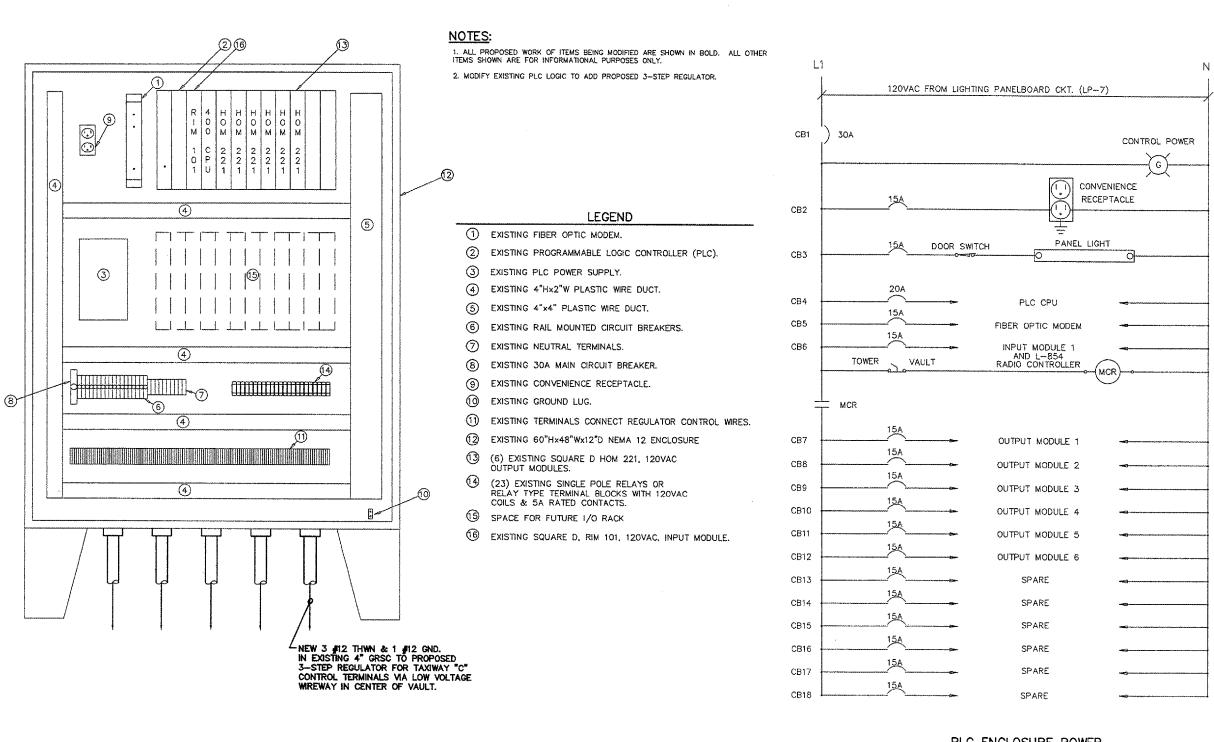
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CRAWFORD, MARPHY & TLLY, NC. CONSULTING BAGNEERS LICENSE No. 184-000613  PAIWAUMER MINIMISES
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AB JRO CHECKED BY 06/24/05 04290-03

ILLINOIS PROJECT: PWK-3481 A.I.P. PROJECT: 3-17-0018-BXX

SHEET 28 OF 38 SHEETS



PLC ENCLOSURE POWER
SCHEMATIC

DESIGN BY:

AB

DRAWN BY:

JRO

CHECKED BY:

DATE:

06/24/05

JOB No:

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ILLINOIS PROJECT: PWK-3461

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SHEET 29 OF 38 SHEETS

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CHARLIE

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PALWAUKEE MUNICIPAL AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS

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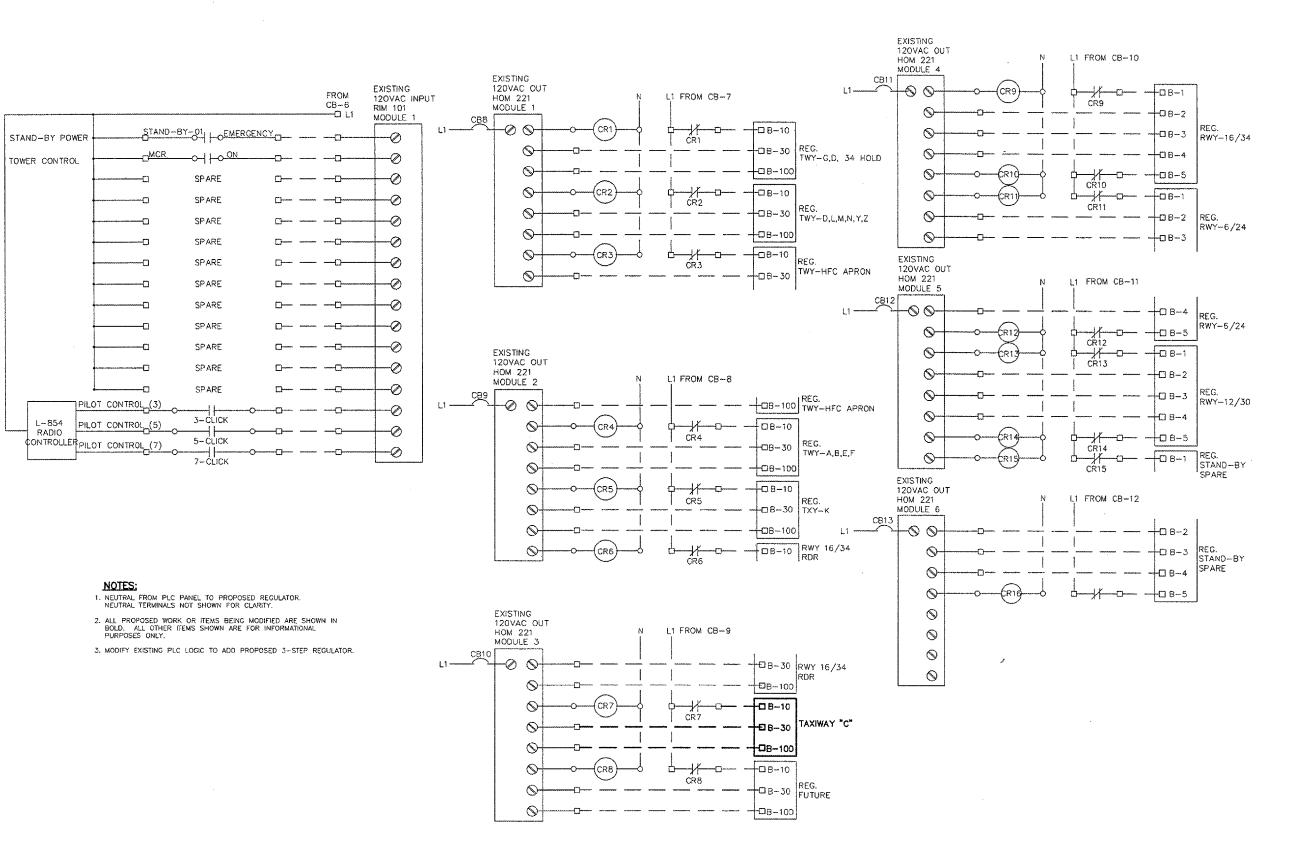
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PLC ENCLOSURE DETAIL



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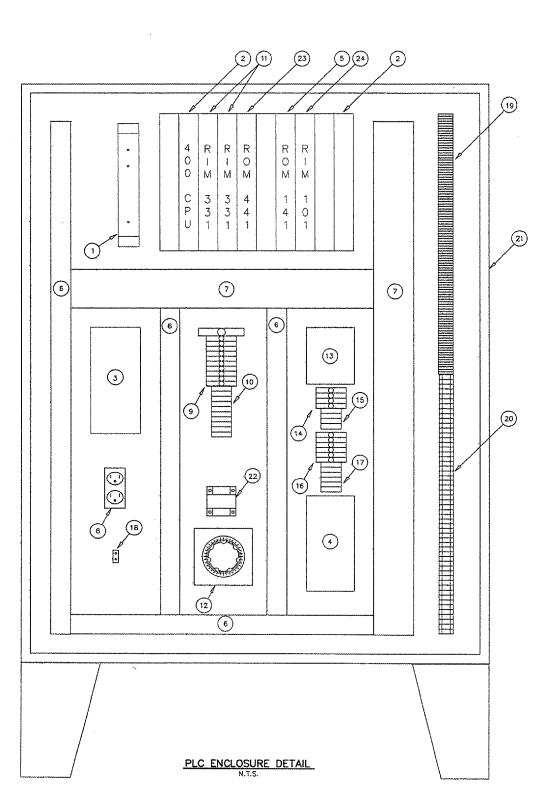
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ILLINOIS PROJECT: PWK-3481 A.I.P. PROJECT: 3-17-0018-BXX

SHEET 30 OF 38 SHEETS

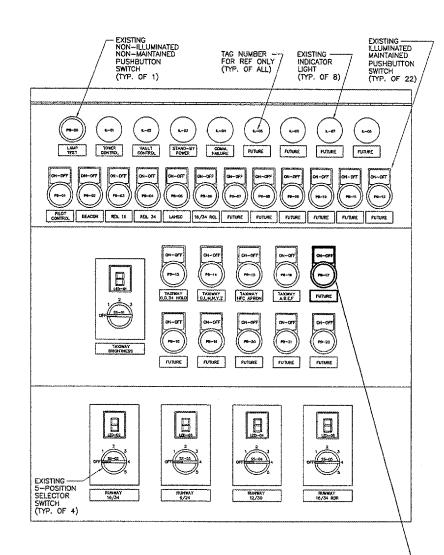


#### LEGEND

- 1 EXISTING FIBER OPTIC MODEM.
- 2 EXISTING PROGRAMMABLE LOGIC CONTROLLER (PLC).
- 3 EXISTING PLC POWER SUPPLY.
- (4) EXISTIONG 24VDC POWER SUPPLY.
- (5) EXISTING SQUARE D. ROM 141, 5VDC. BCD OUTPUT MODULE.
- 6 EXISTING 4"Hx2"W PLASTIC WIRE DUCT.
- 7 EXISTING 4"x4" PLASTIC WIRE DUCT.
- (8) EXISTING CONVENIENCE RECEPTACLE.
- 9 EXISTING RAIL MTD AC CKT BKRS CB1 CB11. VALUES SHOWN ON SCHEMATIC.
- 10 EXISTING NEUTRAL TERMINALS.
- (1) EXISTING SQUARE D, RIM 331, 24V DC, INPUT MODULE.
- EXISTING 0-120VAC VARIABLE XFMR, 230VA, MOUNTED IN 6"X6"X4" NEMA 1, SCREW COVER PULL BOX.
- (13) EXISTING 5VDC POWER SUPPLY, 2.5A MINIMUM.
- (14) EXISTING RAIL MTD 5VDC CKT BKRS, CB31 CB34.
- (15) EXISTING 5VDC COMMON TERMINALS.
- (16) EXISTING RAIL MTD 24VDC CKT BKRS, CB21 CB26.
- (17) EXISTING 24VDC COMMON TERMINALS.
- 18 EXISTING GROUND LUG.
- 19 EXISTING HIGH DENSITY, 600V TERMINAL BLOCKS, TUBULAR SCREW TYPE WITH PRESSURE PLATE.
- (20) EXISTING SINGLE POLE PLUG IN RELAYS OR RELAY TYPE TERMINAL BLOCKS. 24VDC COILS, 10A RATED CONTACTS.
- 21 EXISTING ENCLOSURE, 60"HX48"WX12"D, NEMA 12, WITH BACK PANEL.
- 22 EXISTING 120/6VAC, 50VA TRANSFORMER
- (23) EXISTING SQUARE D, ROM 441, 24V DC, OUTPUT MODULE.
- (24) EXISTING SQUARE D, RIM 101, 24V DC, INPUT MODULE.

- NOTES:

  1. CONTRACTOR SHALL COORDINATE ALL WORK IN THE EXISTING CONTROL TOWER WITH THE AIRWAYS FACILITIES AND THE RESIDENT ENGINEER. CONTRACTOR SHALL GIVE A MINIMUM OF 2 DAYS NOTICE PRIOR TO BEGINNING WORK IN THE TOWER.
- 2. PROPOSED WORK OF ITEMS BEING MODIFIED ARE SHOWN IN BOLD. ALL OTHER ITEMS SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY.
- 3. MOIDFY EXISTING PLC LOGIC TO ADD PROPOSED 3-STEP REGULATOR.



PROPOSED L-821 CONTROL PANEL MODIFICATIONS

NOT TO SCALE

EXISTING PUSHBUTTON SWITCH TO BE -USED AS "TAXIWAY K" SWITCH. REPLACE LABEL TO READ "TAXIWAY K". LABEL SHALL MATCH EXISTING LABELS.

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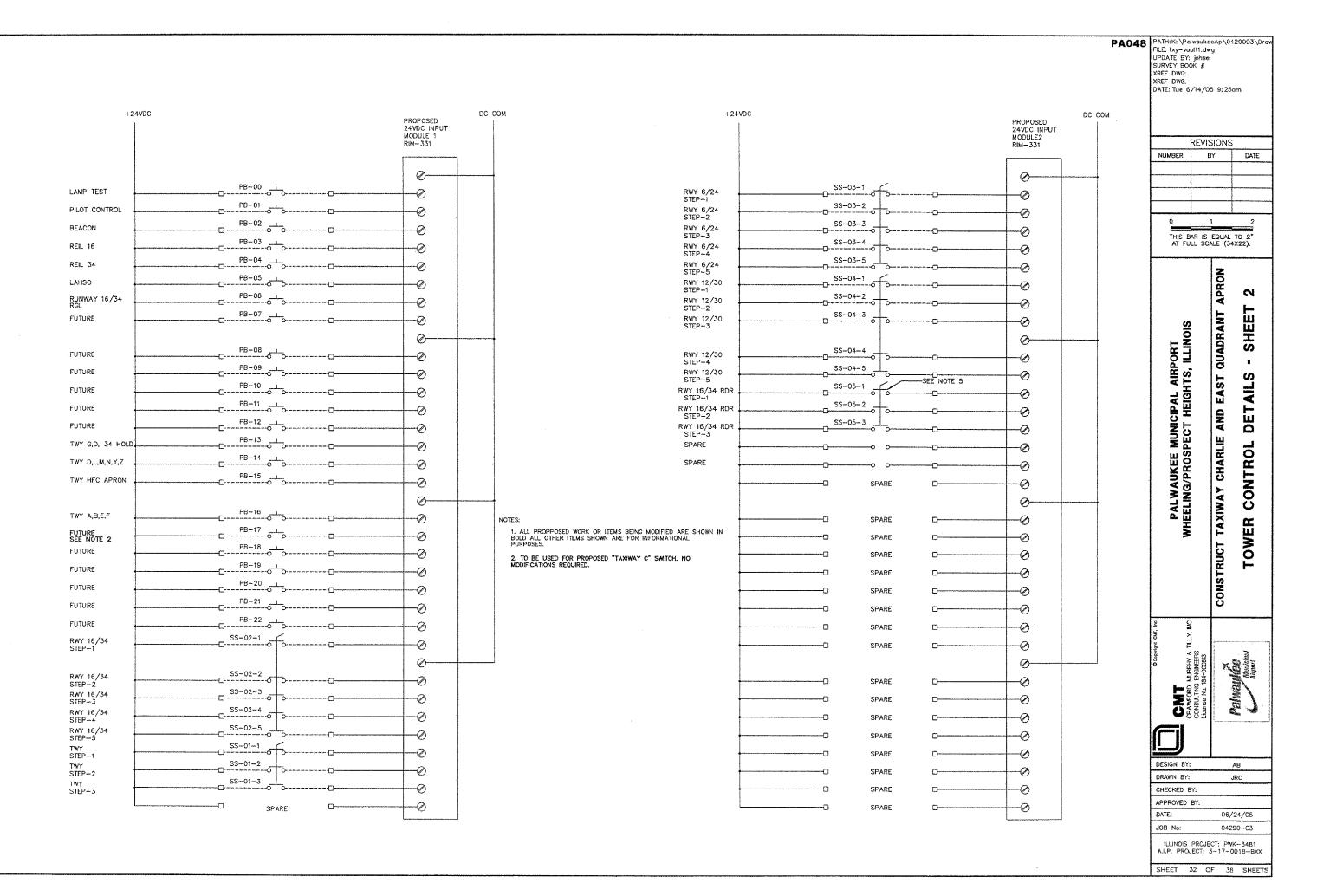
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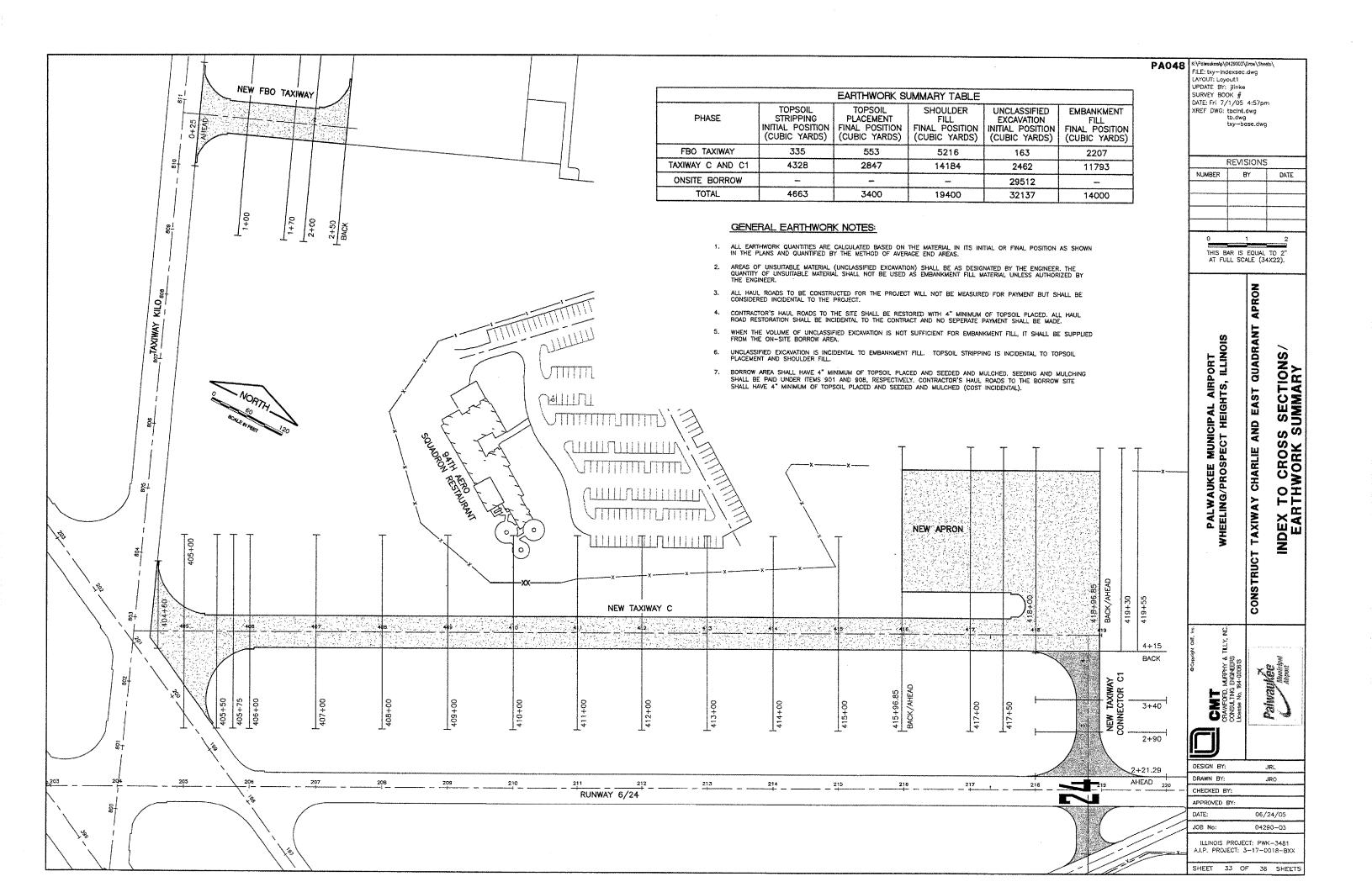
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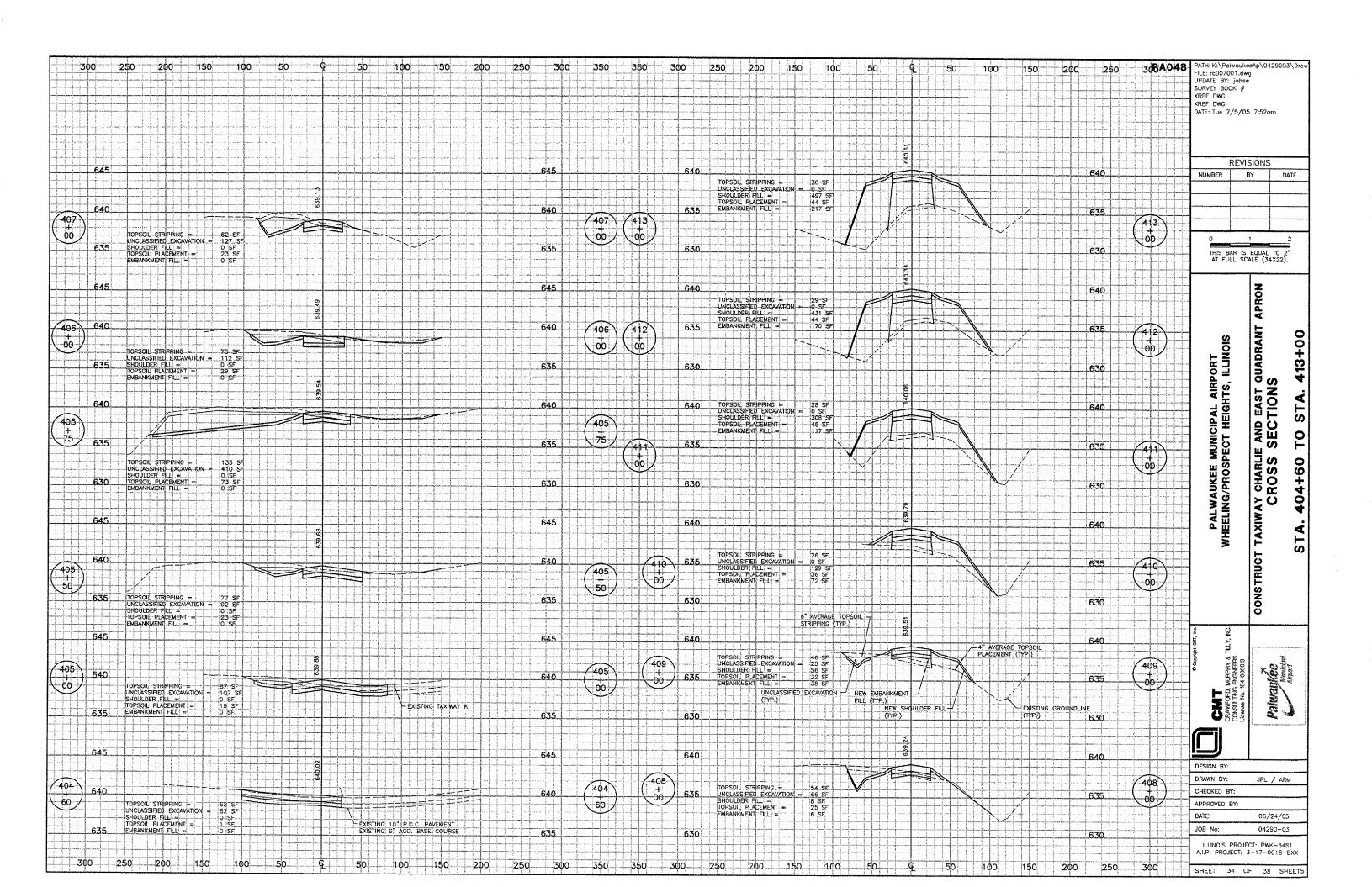
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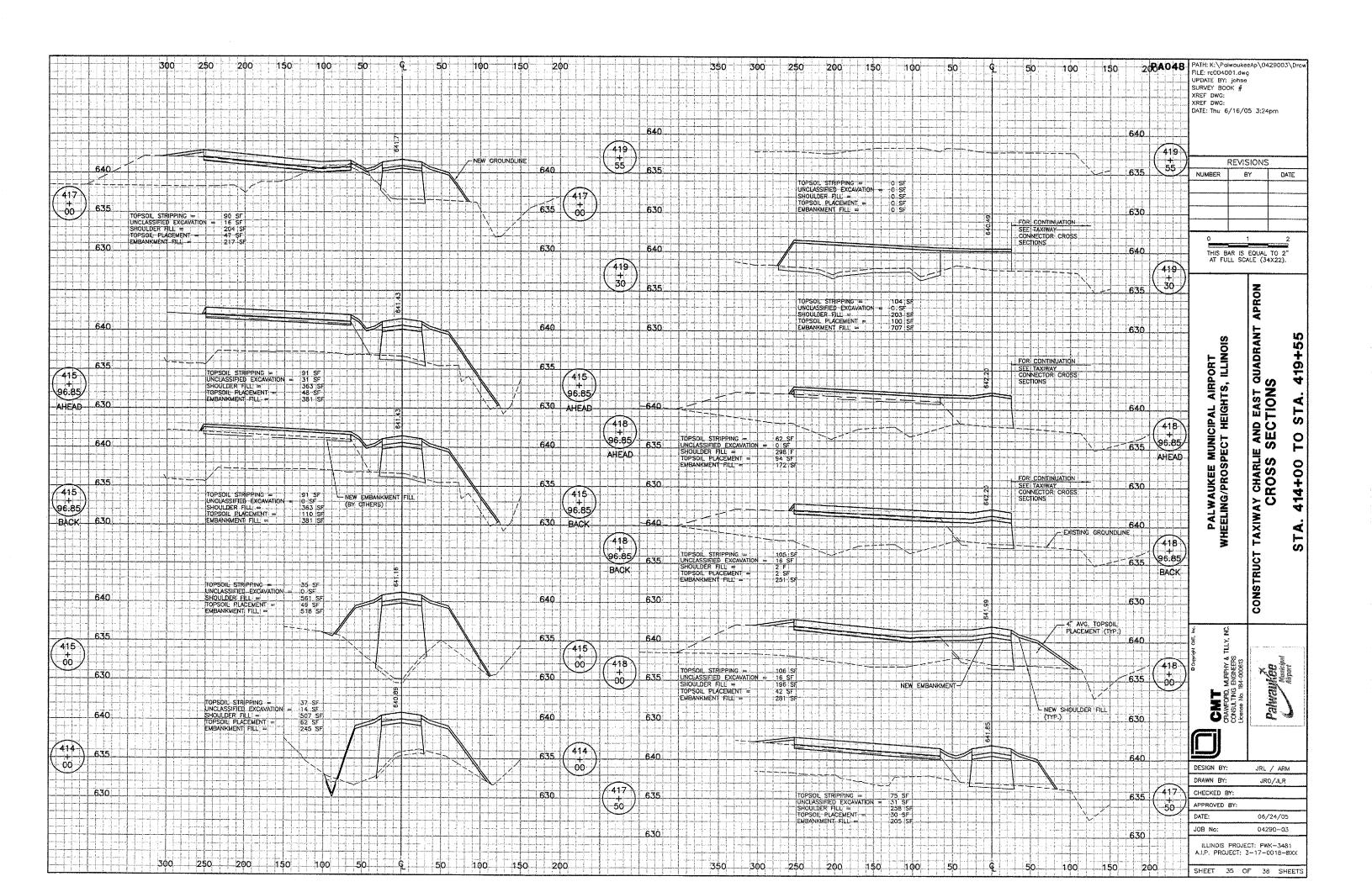
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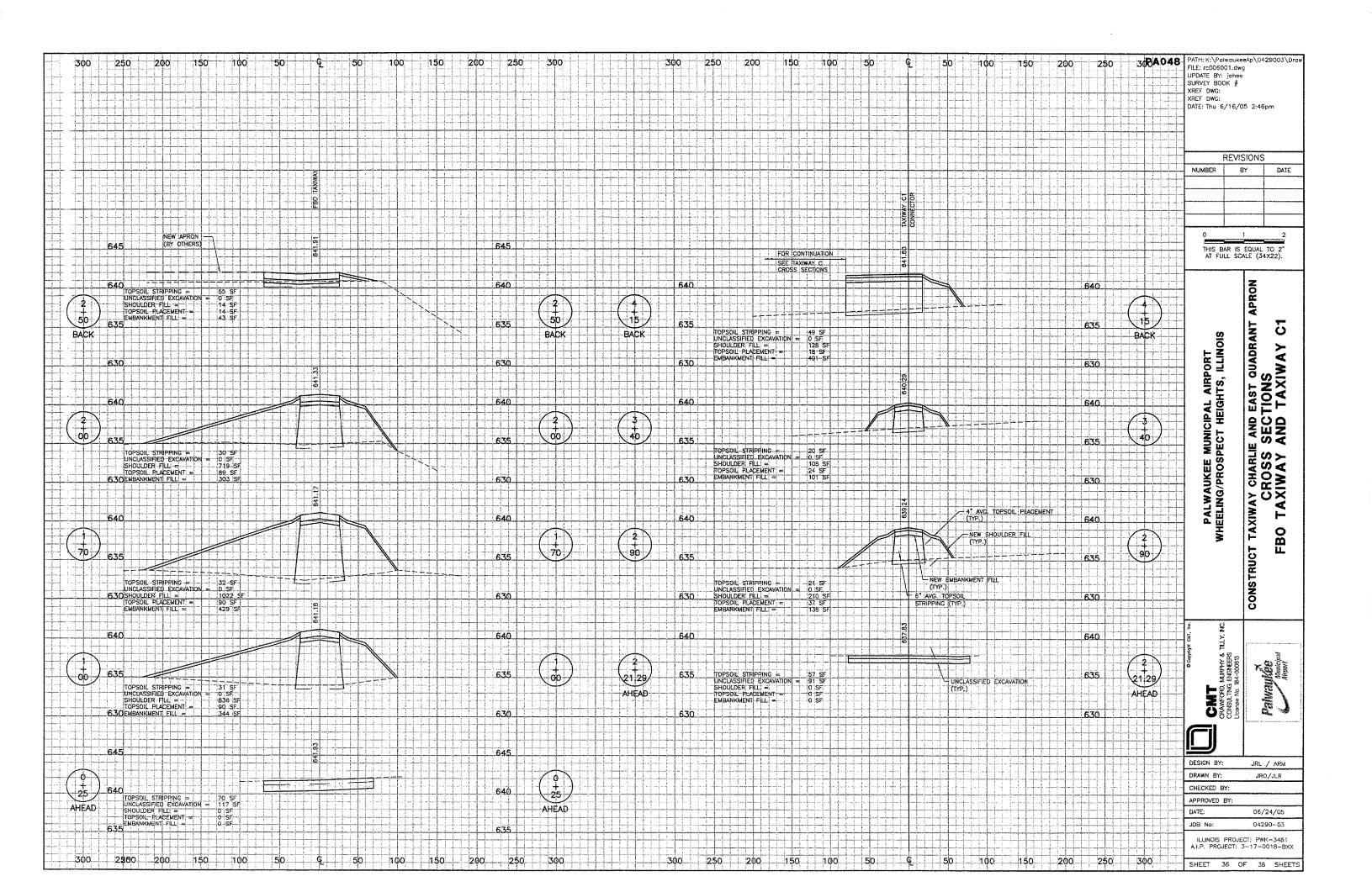
SHEET 31 OF 38 SHEETS

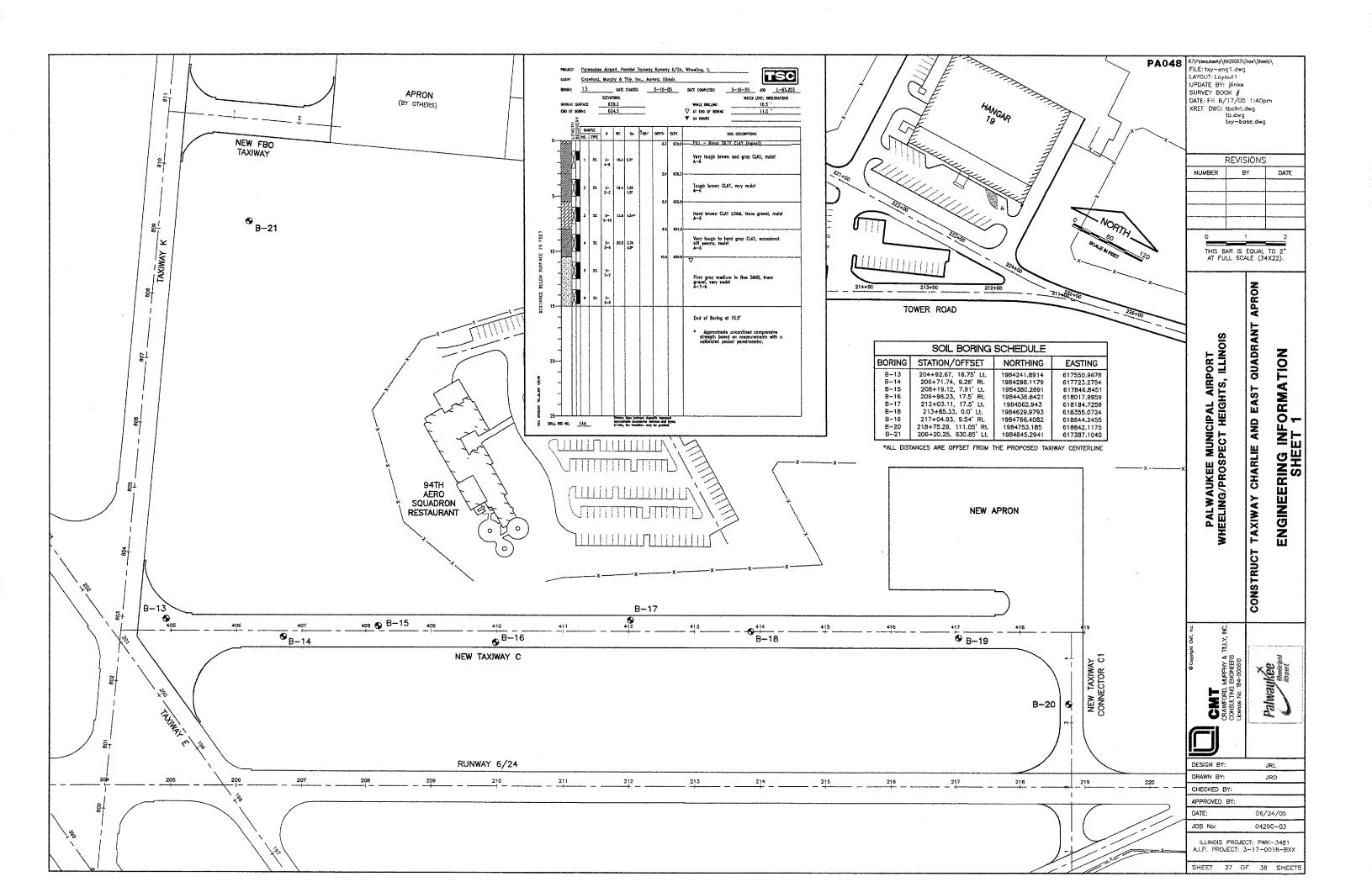


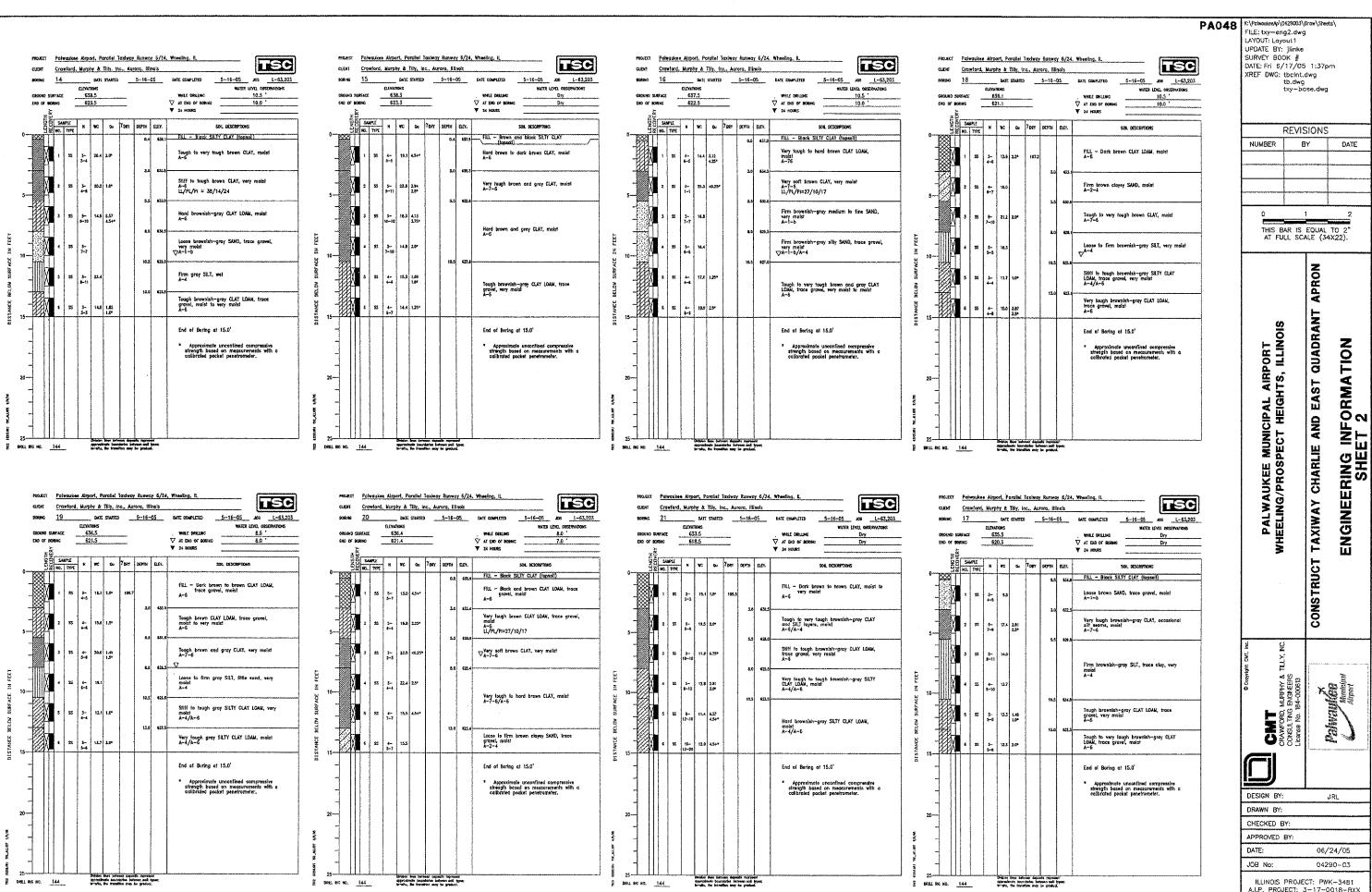












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SHEET 38 OF 38 SHEETS