PA050 TOTAL SHEETS = 40

PALWAUKEE MUNICIPAL AIRPORT COMMISSION WHEELING/PROSPECT HEIGHTS, ILLINOIS



CONSTRUCTION PLANS
FOR

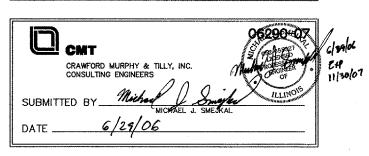
PALWAUKEE MUNICIPAL AIRPORT

PHASE 1 - RUNWAY 16/34 OFA/RSA IMPROVEMENTS
INCLUDING EXTENDING TAXIWAY L AND
NORTHEAST QUADRANT SITEWORK

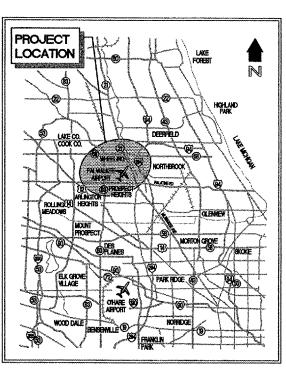
ILLINOIS PROJECT: PWK-3613
A.I.P. PROJECT: 3-17-0018-B39
DATE: JUNE 29, 2006

TOWNSHIP: 42 NORTH RANGE: 11 EAST COOK COUNTY RANGE: 15 EAST COOK COUNTY

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



PALWAUKEE MUNICIPAL AIRPORT
APPROVED DENNIS G. ROULEAU AIRPORT MANAGER
DATE



CONTINUE BORNALE BORNA

PROJECT LOCATIONS

602406-01 604001

INDEX TO SHEETS

IDOT STANDARDS

602411

602601

602701

- 1 COVER SHEET
- 2 SUMMARY OF QUANTITIES
- 3 SITE PLAN/PROJECT CONTROL PLAN

602301-01

602306-01

602401

- 4-5 SEQUENCE OF CONSTRUCTION PER AC 150/5370-2E (LATEST EDITION)
- 6 SEQUENCE OF CONSTRUCTION GENERAL NOTES AND DETAILS
- 7-8 STORM WATER POLLUTION PREVENTION PLA
- 9 STORM WATER POLLUTION PREVENTION PLAN NOTES AND DETAIL
- 10-11 TYPICAL SECTION
- 12-13 PLAN AND PROFILE TAXIWAY
- 14 GEOMETRIC / SEWER / WATERMAIN PLAN NE QUADRANT
- 15-16 GRADING PLAN
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- 18 PAVEMENT JOINTING DETAILS
- 19-21 SEWER PROFILES
- 22 DRAINAGE DETAILS
- 23 SLOPE BOX INLET DETAILS
- 24 SANITARY AND MISCELLANEOUS DETAILS
- 25 WATERMAIN DETAIL
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- 32 INDEX TO CROSS SECTIONS / EARTHWORK SUMMARY
- 33-39 CROSS SECTIONS
- 40 ENGINEERING INFORMATION

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TXY L EST.	NE QUAD EST.	TOTAL EST. QUANTITY	RECORD
AR108084	1/C #4 XLP-USE	L.F.	800	QUANTITY	800	QUANTITY
AR108108	1/C #8 5KV UG CABLE	L.F.	7,395	655	8,050	
AR108758 AR110202	1/C #B GROUND 2° PVC DUCT, DIRECT BURY	LF.	400 5,490	600	400	
	2" STEEL DUCT, DIRECT BURY	L.F.	425	0	6,090 425	
AR110213	3" STEEL DUCT, DIRECT BURY	L.F.	0	180	180	
AR110214	4" STEEL DUCT, DIRECT BURY	L.F.	0	180	180	
AR110216 AR110502	5" STEEL DUCT, DIRECT BURY 2-WAY CONCRETE ENCASED DUCT	L.F.	0 420	180	180 420	
AR110504	4-WAY CONCRETE ENCASED DUCT	L.F.	0	55	55	***************************************
AR110550	SPLIT DUCT	L.F.	40	. 0	40	
AR110610	ELECTRICAL HANDHOLE	EACH	12	2	14	
AR110900 AR125100	REMOVE DUCT ELEVATED RETROREFLECTIVE MARKER	L.F. EACH	· 50	19	50 19	
AR125415	MITL - BASE MOUNTED	EACH	60	Ö	60	
AR125442	TAXI GUIDANCE SIGN, 2 CHARACTER	EACH	5	0	5	
AR125443	TAXI GUIDANCE SIGN, 3 CHARACTER	EACH	11	2	3	
AR125444 AR125445	TAXI GUIDANCE SIGN, 4 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER	EACH EACH	3	1 0	3	
AR125446	TAXI GUIDANCE SIGN, 6 CHARACTER	EACH	3	ŏ	3	
AR125449	TAXI GUIDANCE SIGN, 9 CHARACTER	EACH	1	0	1	
AR125525	HIRL, INPAVEMENT	EACH	1	0	1	
AR125565 AR125902	SPLICE CAN REMOVE BASE MOUNTED LIGHT	EACH EACH	5	0 0	5	
AR125902 AR125904	REMOVE BASE MOUNTED LIGHT	EACH	23 5	0	23 5	
AR125915	RELOCATE RGL	PAIR	1	 	i i	
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1	0	1	
AR152410 AR152540	UNCLASSIFIED EXCAVATION	C.Y.	16,605	15,530	32,135	
AR152540 AR156510	SOIL STABILIZATION FABRIC SILT FENCE	S.Y. L.F.	13,000 3,555	14,300 2,055	27,300 5,610	
AR156511	DITCH CHECK	EACH	5	0	5	
AR156520	INLET PROTECTION	EACH	17	29	46	
AR201610 AR208515	BITUMINOUS BASE COURSE POROUS GRANULAR EMBANKMENT	TON	535	1,630	2,165	
AR209606	CRUSHED AGG. BASE COURSE - 6"	C.Y. S.Y.	4,520 10,445	450	4,970 10,445	
AR209607	CRUSHED AGG. BASE COURSE - 7"	S.Y.	0	14,300	14,300	
AR209618	CRUSHED AGG. BASE COURSE - 18"	5.Y.	2,340	0	2,340	
AR401610	BITUMINOUS SURFACE COURSE	TON	865	1,630	2,495	
AR401650 AR401900	BITUMINOUS PAVEMENT MILLING REMOVE BITUMINOUS PAVEMENT	S.Y.	3,000	0 25	3,000 3,120	
	10" PCC PAVEMENT	S.Y.	10,220	0	10,220	
AR501530	PCC TEST BATCH	EACH	1	0	1	
AR501900	REMOVE PCC PAVEMENT	S.Y.	253	0	253	
AR602510 AR603510	BITUMINOUS PRIME COAT BITUMINOUS TACK COAT	GAL.	585 705	3,575 1,430	4,160 2,135	
AR620520	PAVEMENT MARKING - WATERBORNE	S.F.	10,640	5,915	16,555	
AR620525	PAVEMENT MARKING - WATERBORNE PAVEMENT MARKING - BLACK BORDER	S.F.	10,245	7,045	17,290	
AR620900	PAVEMENT MARKING REMOVAL	S.F.	1,300	1,545	2,845	
AR701415 AR701418	15" RCP, CLASS III 18" RCP, CLASS III	L.F.	210	995	995 210	
AR70143D	30" RCP, CLASS III	LF.	0	360	360	
AR701436	36" RCP, CLASS III	L.F.	0	215	215	
AR701442	42" RCP, CLASS III	L.F.	325	0	325	
AR701512 AR701900	12" RCP, CLASS IV REMOVE PIPE	L.F.	0 360	585 440	585 800	
AR705526	5" PERFORATED UNDERDRAIN W/SOCK	L.F.	3,615	3,095	6,710	
	UNDERDRAIN COLLECTION STRUCTURE	EACH	0	1	1	
AR705900	REMOVE UNDERDRAIN REMOVE COLLECTION STRUCTURE	L.F.	845	<u> </u>	845	
AR705905 AR751411		EACH EACH	0	6	6	
AR751412	INLET — TYPE A INLET — TYPE B	EACH	0	2	2	
AR751540	MANHOLE 4'	EACH	1	1	2	
	MANHOLE 5'	EACH	1	0	1	
AR751560 AR751567	MANHOLE 6' MANHOLE 7'	EACH EACH	0	6 2	6 3	
AR751903	REMOVE MANHOLE	EACH	2	2	4	
AR751943	ADJUST MANHOLE	EACH	5	1	6	
AR751983	RECONSTRUCT MANHOLE	EACH	2	0	2	
AR760512 AR760724	12" DUCTILE IRON WATER MAIN 24" STEEL CASING	L.F.	250 70	1,145	1,395 70	
AR760800	FIRE HYDRANT	EACH	0	3	3	
AR760850	VALVE VAULT	EACH	0	2	2	
AR760862	12" X 12" TAPPING VALVE & SLEEVE	EACH	O .	2	2	
AR760907 AR760945	REMOVE WATER VALVE ADJUST FIRE HYDRANT	EACH EACH	0	0	1	
AR760945	RELOCATE FIRE HYDRANT	EACH	1	1	2	
AR800001	TYPE 1 INLET	EACH	ò	12	12	······································
AR800028	SLOPE BOX INLET 18"	EACH	2	0	2	
AR800053	SOIL GUARD	S.Y.	4,725	6,195	10,920	
AR800194 AR800816	REMOVE ELEVATED RETROREFLECTIVE MARKER L-804 RGL ELEVATED, BASE MOUNTED	EACH EACH	0 4	7	7	
AR901510	SEEDING	ACRE	5.7	2.7	8.4	
AR908510	MULCHING	ACRE	4.7	1.4	6.1	
10047 000	V GILIDA					
LOCAL ONL	Y SHARE 12" SANITARY SEWER	L.F.	0	680	680	
	SANITARY MANHOLE 4'	EACH	0	2	2	
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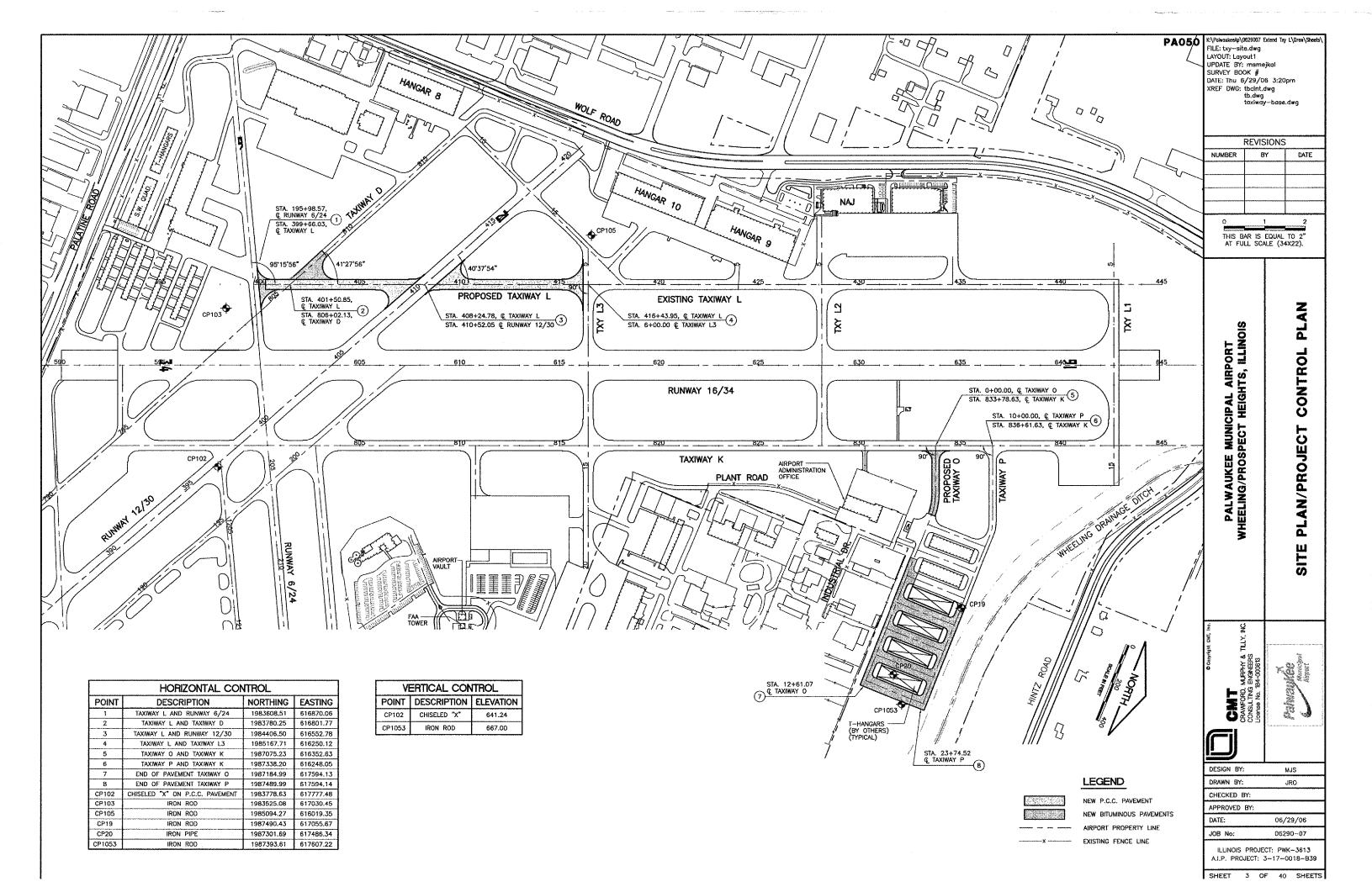
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PALWAUKEE MUNICIPAL AIRPORT WHEELING/PROSPECT HEIGHTS. ILLINOIS			SUMMARY OF QUANTITIES				
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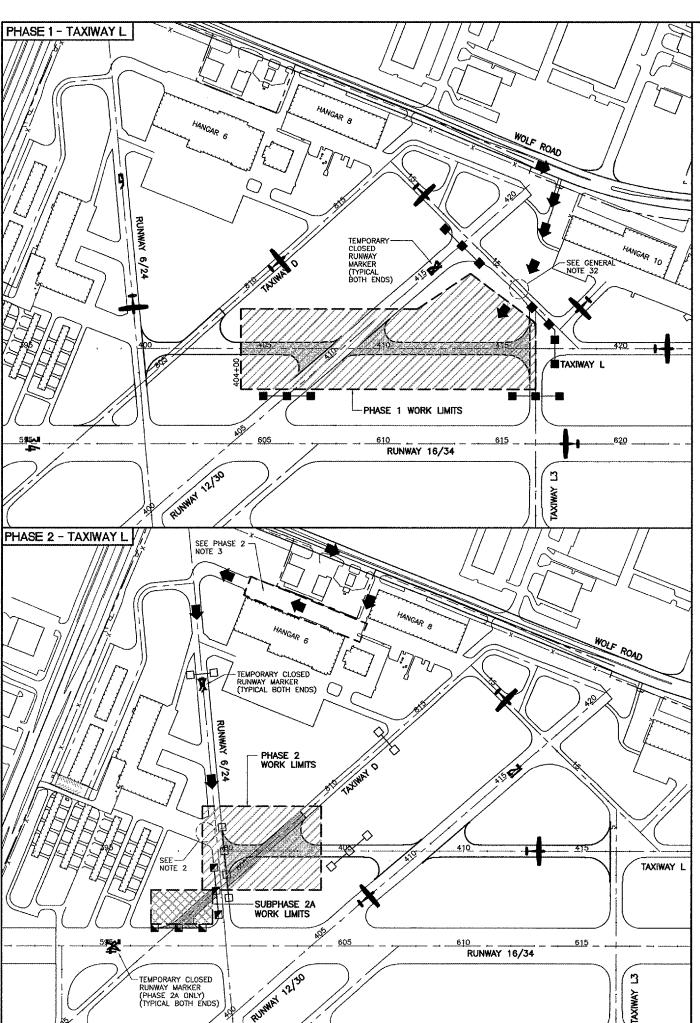
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APPROVED BY: DATE: 06/29/06 JOB No: 06290-07

ILLINOIS PROJECT: PWK-3613 A.I.P. PROJECT: 3-17-0018-839

SHEET 2 OF 40 SHEETS





PHASING NOTES (ALL PHASES)

- THE INTENT OF THE PHASING PLANS IS TO MINIMIZE THE IMPACT OF CONSTRUCTION ON THE OPERATION OF THE AIRPORT. THE CONTRACTOR SHALL CONSTRUCT THE PROJECT IN CONSECUTIVE PHASES AS OUTLINED IN THE PLANS UNLESS OTHERWISE APPROVED
- 2. PRIOR TO REOPENING A CLOSED RUNWAY, THE ENTIRE RUNWAY SAFETY AREA (200 FEET FROM CENTERLINE) MUST MEET FAA CRITERIA. FAA CRITERIA REQUIRES THAT THERE BE NO OPEN EXCAVATIONS OR TRENCHES, THE MAXIMUM PAVEMENT DROPOFF BE 3 INCHES, AND ALL GRADES IN ANY DIRECTION BE LESS THAN 5 PERCENT. TEMPORARY WEDGING OF BASE COURSE AND BITUMINOUS CONCRETE WILL BE REQUIRED
- 3. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE. STRICT ADHERENCE TO THE APPROVED SCHEDULE WILL BE ENFORCED TO AVOID CONFLICTS WITH OTHER CONSTRUCTION ACTIVITIES ON THE AIRPORT AND THE ADVERSE EFFECTS THEY COULD HAVE ON AIRPORT OPERATIONS.
- THE CONTRACTOR SHALL COORDINATE CLOSELY WITH THE AIRPORT STAFF TO SCHEDULE THE RUNWAY/TAXIWAY CLOSURES. ITEMS SUCH AS THE EXTENDED WEATHER FORECAST, MATERIAL AVAILABILITY, EQUIPMENT DEPENDABILITY AND MANPOWER AVAILABILITY SHALL BE DISCUSSED PRIOR TO SCHEDULING THIS CRITICAL CLOSURE. THE ACTING AIRPORT MANAGER AND THE CONTRACTOR SHALL MUTUALLY AGREE ON THE EXACT DATE OF THE
- 5. CONTRACTOR MUST MAINTAIN ACCESS TO ALL APRON/HANGAR AREAS AT ALL TIMES. CONTRACTOR SHALL RELOCATE EQUIPMENT AT NO ADDITIONAL COST TO CONTRACT TO ALLOW AIRCRAFT TO PASS. CONTRACTOR SHALL COORDINATE CONSTRUCTION OPERATIONS AT ALL APRON/HANGAR AREAS TO PROVIDE MINIMAL DISRUPTIONS TO AIRCRAFT MOVEMENT IN THAT AREA.

LIQUIDATED DAMAGES (ALL PHASES)

- 1. BECAUSE OF THE CRITICAL LIMITATIONS WHICH THE CLOSURE OF RUNWAY 16/34 PLACES ON THE USERS OF THE AIRPORT, LIQUIDATED DAMAGES IN THE AMOUNT OF \$2500 WILL BE DEDUCTED FROM THE MONIES OWED THE CONTRACTOR FOR EACH HALF HOUR OVER 6:00 AM UNTIL SPECIFIED WORK IS COMPLETED AND THE RUNWAY IS REOPENED TO AIRCRAFT TRAFFIC. DAMAGES MAY BE ASSESSED STARTING AT 6:01 AM ON ANY DAY THE RUNWAY IS NOT REOPENED.
- A MAXIMUM OF THREE (3) CLOSURES ON RUNWAY 16/34 WILL BE ALLOWED. RUNWAY CLOSURES, NIGHTIME (10 PM 6 AM). SEE SEQUENCE OF CONSTRUCTION GENERAL NOTES FOR DETAILS ON RUNWAY CLOSURES. FOR EVERY ADDITIONAL RUNWAY 16/34 CLOSURE REQUIRED BY THE CONTRACTOR LIQUIDATED DAMAGES IN THE AMOUNT OF \$2,500 WILL BE ASSESSED.

PHASE 1: SUGGESTED SEQUENCE OF CONSTRUCTION

MARK AIR OPERATIONS AREA (A.O.A.) WITH LATHE AND RIBBON AND PLACE BARRICADES AS SHOWN OR AS DIRECTED BY THE ENGINEER.

COORDINATE CLOSURE OF RUNWAY 12/30 WITH ENGINEER. PLACE CLOSED RUNWAY

CONSTRUCT PROPOSED IMPROVEMENTS INCLUDING ELECTRICAL CABLING WITHIN RUNWAY 12/30 AIR OPERATIONS AREA.

CLEAN PAVEMENTS AND REMOVE BARRICADES.

OPEN RUNWAY 12/30.

PHASE 2: SUGGESTED SEQUENCE OF CONSTRUCTION

MARK AIR OPERATIONS AREA (A.O.A.) WITH LATHE AND RIBBON AND PLACE BARRICADES AS SHOWN OR AS DIRECTED BY THE ENGINEER.

COORDINATE CLOSURE OF RUNWAY 6/24 AND TAXIWAY D WITH ENGINEER, PLACE CLOSED RUNWAY MARKERS.

CONSTRUCT PROPOSED IMPROVEMENTS, INCLUDING PAVING, JOINT SEALING, PAVEMENT MARKING, ELECTRICAL AND SAFETY GRADING FOR PHASE 2 LIMITS. THIS WORK SHALL BE DONE TO THE SATISFACTION OF THE AIRPORT MANAGER.

CLEAN PAVEMENTS AND REMOVE BARRICADES.

PHASE 2A: SUGGESTED SEQUENCE OF CONSTRUCTION

COORDINATE TEMPORARY NIGHTIME CLOSURE OF RUNWAY 16/34 WITH THE ENGINEER AND PLACE CLOSED RUNWAY MARKERS.

PLACE BARRICADES AS SHOWN OR AS DIRECTED BY THE ENGINEER FOR PHASE 2A

CONSTRUCT PROPOSED IMPROVEMENTS WITHIN PHASE 2A LIMITS, INCLUDING PAVEMENT REMOVAL, TURFING AND GRADING. THIS WORK SHALL BE DONE TO THE SATISFACTION OF THE AIRPORT MANAGER.

CLEAN ALL PAVEMENTS AND REMOVE PHASE 2A BARRICADES.

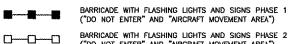
OPEN RUNWAY 16/34.

LEGEND

PHASE WORK AREA SUBPHASE WORK AREA



AIRCRAFT MOVEMENT AREA PHASE





("DO NOT ENTER" AND "AIRCRAFT MOVEMENT AREA") BARRICADE WITH FLASHING LIGHTS AND SIGNS SUBPHASE ("DO NOT ENTER" AND "AIRCRAFT MOVEMENT AREA")

AIR OPERATIONS AREA (A.O.A.)
ACTIVE RUNWAYS 200' CENTERLINE TO A.O.A. ACTIVE TAXIWAYS 72' CENTERLINE TO A.O.A. TEMPORARY CLOSED RUNWAY MARKER

CONTRACTOR'S ACCESS/HAUL ROAD

PHASE 1: NOTES

- AIRCRAFT SHALL NOT USE NEW P.C. CONCRETE PAVEMENTS UNTIL 3,500 PSI COMPRESSIVE STRENGTH HAS BEEN OBTAINED.
- . WEST LIMITS OF PHASE 1 PAVING SHALL BE AT STA. 404+00, OR AS DIRECTED BY THE ENGINEER.

PHASE 2: NOTES

- 1. AIRCRAFT SHALL NOT USE NEW P.C. CONCRETE PAVEMENTS UNTIL 3,500 PSI COMPRESSIVE STRENGTH HAS BEEN OBTAINED.
- 2. ACCESS FOR AIRCRAFT BETWEEN THE SOUTHWEST QUADRANT HANGAR/RAMP AREAS AND RUNWAY 16/34 SHALL BE MAINTAINED AT ALL TIMES ON CLOSED RUNWAY 6/24.
- 3. CONTRACTOR SHALL LIMIT HAUL ROUTE TO A 40° WIDE PATH ON EXISTING APRON. AT THE COMPLETION OF PHASE 2 CONTRACTOR SHALL BITUMINOUS MILL 2" AND PLACE 2" BITUMINOUS SURFACE ON APRON AREA WEST OF HANGAR 6. WORK SHALL BE PAID UNDER ITEMS AR401650 AND AR401610.

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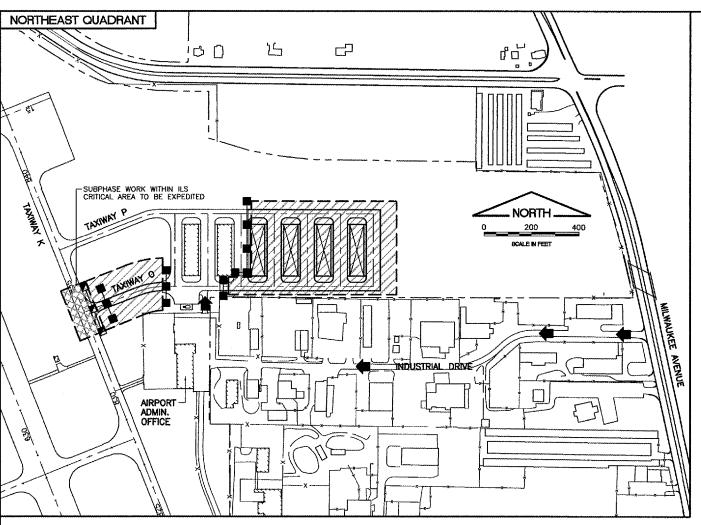
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ILLINOIS PROJECT: PWK-3613 A.I.P. PROJECT: 3-17-0018-B39

06290-07

SHEET 4 OF 40 SHEETS

JOB No



PHASING NOTES (ALL PHASES)

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- 2. PRIOR TO REOPENING A CLOSED RUNWAY, THE ENTIRE RUNWAY SAFETY AREA (200 FEET FROM CENTERLINE) MUST MEET FAA CRITERIA. FAA CRITERIA REQUIRES THAT THERE BE NO OPEN EXCAVATIONS OR TRENCHES, THE MAXIMUM PAVEMENT DROPOFF BE 3 INCHES, AND ALL GRADES IN ANY DIRECTION BE LESS THAN 5 PERCENT. TEMPORARY WEDGING OF BASE COURSE AND BITUMINOUS CONCRETE WILL BE REQUIRED TO MEET CRITERIA.
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- 5. CONTRACTOR MUST MAINTAIN ACCESS TO ALL APRON/HANGAR AREAS AT ALL TIMES. CONTRACTOR SHALL RELOCATE EQUIPMENT AT NO ADDITIONAL COST TO CONTRACT TO ALLOW AIRCRAFT TO PASS. CONTRACTOR SHALL COORDINATE CONSTRUCTION OPERATIONS AT ALL APRON/HANGAR AREAS TO PROVIDE MINIMAL DISRUPTIONS TO AIRCRAFT MOVEMENT IN THAT AREA.

LIQUIDATED DAMAGES (ALL PHASES)

- 1. BECAUSE OF THE CRITICAL LIMITATIONS WHICH THE CLOSURE OF RUNWAY 16/34 PLACES ON THE USERS OF THE AIRPORT, LIQUIDATED DAMAGES IN THE AMOUNT OF \$2500 WILL BE DEDUCTED FROM THE MONIES OWED THE CONTRACTOR FOR EACH HALF HOUR OVER 6:00 AM UNTIL SPECIFIED WORK IS COMPLETED AND THE RUNWAY IS REOPENED TO AIRCRAFT TRAFFIC. DAMAGES MAY BE ASSESSED STARTING AT 6:01 AM ON ANY DAY THE RUNWAY IS NOT REOPENED.
- A MAXIMUM OF THREE (3) CLOSURES ON RUNWAY 16/34 WILL BE ALLOWED. RUNWAY CLOSURES, NIGHTIME (10 PM 6 AM). SEE SEQUENCE OF CONSTRUCTION GENERAL NOTES FOR DETAILS ON RUNWAY CLOSURES. FOR EVERY ADDITIONAL RUNWAY 16/34 CLOSURE REQUIRED BY THE CONTRACTOR LIQUIDATED DAMAGES IN THE AMOUNT OF \$2,500 WILL BE ASSESSED.

NORTHEAST QUADRANT: SUGGESTED SEQUENCE OF CONSTRUCTION

- . PLACE BARRICADES AS SHOWN OR AS DIRECTED BY THE ENGINEER.
- · CONSTRUCT PROPOSED IMPROVEMENTS.
- . COORDINATE SHUT DOWN OF RUNWAY 16 ILS WITH AIRPORT AND FAA.
- · EXPEDITE WORK WITHIN ILS CRITICAL AREA.

LEGEND

PHASE WORK AREA SUBPHASE WORK AREA



AIRCRAFT MOVEMENT AREA PHASE



BARRICADE WITH FLASHING LIGHTS AND SIGNS PHASE 1 ("DO NOT ENTER" AND "AIRCRAFT MOVEMENT AREA")

BARRICADE WITH FLASHING LIGHTS AND SIGNS PHASE 2 ("DO NOT ENTER" AND "AIRCRAFT MOVEMENT AREA")



BARRICADE WITH FLASHING LIGHTS AND SIGNS SUBPHASE ("DO NOT ENTER" AND "AIRCRAFT MOVEMENT AREA")



AIR OPERATIONS AREA (A.O.A.)
ACTIVE RUNWAYS 200' CENTERLINE TO A.O.A.
ACTIVE TAXIWAYS 72' CENTERLINE TO A.O.A.



TEMPORARY CLOSED RUNWAY MARKER
CONTRACTOR'S ACCESS/HAUL ROAD

NORTHEAST QUADRANT: NOTES

 COORDINATE WORK WITHIN THE TAXIWAY K AIR OPERATIONS AREA WITH THE AIRPORT MANAGER AND ENGINEER.

WORK AREA	ALLOWABLE WORK PERIODS	OPERATIONAL STATUS/ RESTRICTIONS
PHASE 1 (TAXIWAY L) TAXIWAY IMPROVEMENTS OUTSIDE OF RUNWAY 16/34 AND TAXIWAY D AIR OPERATIONS AREAS TO STA. 404+00	no restrictions	RUNWAY 16/34 OPEN RUNWAY 6/24 OPEN RUNWAY 12/30 CLOSED TAXIWAY L3 (WEST OF RUNWAY 16/34) CLOSED
PHASE 2 (TAXIWAY L) TAXIWAY IMPROVEMENTS WITHIN TAXIWAY D AIR OPERATIONS AREA TO STA. 404+00	BEGIN AFTER PHASE 1 PAVING, GRADING AND ELECTRICAL IS COMPLETED AND RUNWAY 12/30 AND PARTIAL TAXIWAY L ARE OPEN FOR OPERATIONS	RUNWAY 16/34 OPEN RUNWAY 6/24 CLOSED * RUNWAY 12/30 OPEN TAXIWAY D (WEST OF RUNWAY 16/34) CLOSED
PHASE 2A (TAXIWAY L) TAXIWAY IMPROVEMENTS WITHIN RUNWAY 15/34 AIR OPERATIONS AREA	NIGHTTIME (10 PM - 6 AM)	RUNWAY 16/34 CLOSED RUNWAY 6/24 CLOSED * RUNWAY 12/30 OPEN TAXIWAY D (WEST OF RUNWAY 16/34) CLOSED
NORTHEAST QUADRANT ALL PROPOSED IMPROVEMENTS	NO RESTRICTIONS	TAXIWAY P OPEN AT ALL TIMES

* ACCESS TO/FROM SOUTHWEST HANGARS/APRON AREAS ON CLOSED RUNWAY 6/24 SHALL BE MAINTAINED.

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

PALWAUKEE MUNICIPAL AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS	SEQUENCE OF CONSTRUCTION PER AC 150/5370-2E (LATEST EDITION) - SHEET 2
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CRAWFORD, CONSULTING License No. 1	
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ILLINOIS PROJECT: PWK-3613
A.I.P. PROJECT: 3-17-0018-B39

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 AIRPORT MANAGER AND RESIDENT ENGINEER AND BE APPROVED BY THE DIVISION OF AERONAUTICS
- 2. ALL OPERATIONS SHALL BE IN CONFORMANCE WITH AC 150/5370-2E (LATEST EDITION) SAFETY DURING
- CONTRACTOR'S EQUIPMENT SHALL BE STORED IN THE EQUIPMENT AND MATERIAL STORAGE/STAGING AREA WHEN CONSTRUCTION IS NOT IN PROGRESS.
- 4. THE AIRPORT MANAGER IN CONSULTATION WITH THE RESIDENT ENGINEER SHALL HAVE FINAL SAY IN THE THE CONSTRUCTION OPERATING SEQUENCE AS IT RELATES TO PEDESTRIAN, VEHICULAR AND
- ALL EXISTING PAYEMENTS. 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 F THEY AFFECT FLIGHT SAFETY. CONTRACTOR'S WORK HOURS SHALL BE IN ACCORDANCE WITH LOCAL
- 8. THE CONTRACTOR SHALL PROVIDE PORTABLE FLOOD LIGHTING FOR NIGHTTIME CONSTRUCTION. SUFFICIENT UNITS SHALL BE PROVIDED SO THAT WORK AREAS ARE ILLUMINATED TO A LEVEL OF FIVE HORIZONTAL FOOT CANDLES. THE LIGHTING LEVELS SHALL BE CALCULATED AND MEADED IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE ILLUMINATION ENGINEERING SOCIETY, LIGHTS SHALL BE POSITIONED SO AS
- 9. THE CONTRACTOR WILL BE REQUIRED TO HAVE A SWEEPER AVAILABLE FOR USE AT ALL TIMES. WHEN ACTIVE AIRFIELD PAVEMENTS ARE UTILIZED AS HAUL ROADS BY THE CONTRACTOR, MATERIAL TRACKED ON TO THE PAVEMENT SHALL BE CONTINUALLY REMOVED WITH SAID SWEEPER. THIS SWEEPING SHALL NOT BE PAID FOR SEPERATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 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 ENGINEER. BARRICADES SHALL BE WEIGHTED TO PREVENT BLOWING OVER, BARRICADES SHALL HAVE A FLASHING RED LIGHT AND CONFORM TO IDOT STANDARD 702001. TYPE II. BARRICADE INSTALLATION WILL BE REQUIRED PRIOR TO ACCESS TO THE A.D.A. BY CONTRACTOR'S WORKERS, EQUIPMENT OR MATERIAL. SIGNS SHALL BE PLACED AT EACH TAXIWAY/RUNW, CLOSURE LOCATION AND SHALL BE ATTACHED TO THE BARRICADES. EACH BARRICADE LOCATION SHALL CONSIST OF ONE "DO NOT ENTER" SIGN AND ONE "AIRCRAFT MOVEMENT AREA" SIGN. SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. IN CONJUNCTION WITH IDOT TYPE II BARRICADES, 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.
- 14. 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 WARKER 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 OPERATIONS
- 20. APPROXIMATE LOCATION OF HAUL ROUTES ON THE AIRPORT SITE ARE SHOWN ON THE GENERAL PROJECT LAYOUT AND THE PHASING PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE OFF-SITE HAUL ROUTES (STATE HIGHWAYS, COUNTY ROADS OR CITY STREETS) WITH THE APROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE ROADS USED AS HAUL ROUTES SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HALL ROUTE. THE BEFORE AND
 AFTER CONDITION OF ON-SITE HAUL ROUTES SHALL BE JOINTLY INSPECTED AND DETERMINED BY THE
 CONTRACTOR AND THE ENGINEER. FENCING, DRAINAGE, GRADING AND OTHER MISCELLANEOUS CONSTRUCTION REQUIRED TO CONSTRUCT TEMPORARY HAUL ROUTES OR ACCESS POINTS ON THE
 AIRPORT WILL BE THE CONTRACTOR'S TOTAL RESPONSIBILITY AND SHALL BE APPROVED BY THE ENGINEER
 PRIOR TO THE WORK, ALL ON—SITE ACCESS ROADS TO AIRPORT FACILITIES SHALL REMAIN OPEN AND

- 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
- 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 SUBSEQUENT 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
- 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 VIDLATE FEDERAL AVIATION ADMINISTRATION PART 77 IMAGINARY SURFACES OR RUNWAY AND TAXIWAY SAFETY AREAS.
- 28. ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER ELECTRICAL CABLES SHALL REMAIN IN SERVICE AT ALL TIMES. ALL EXISTING LIGHTING AND VAULT EQUIPMENT SHALL REMAIN IN SERVICE UNTIL PROPOSED IMPROVEMENTS ARE INSTALLED AND OPERATIONAL, UNLESS OTHERWISE APPROVED BY THE ENGINEER. ANY CABLES DAMAGED BY THE CONTRACTOR SHALL BE IMMEDIATELY REPAIRED AT HIS EXPENSE
- 29. COORDINATION BY THE CONTRACTOR WITH THE EXISTING UTILITIES SHALL BE COMPLETED BEFORE CONSTRUCTION IS STARTED. CONTRACTOR IS REFERRED TO SECTION 50-17 OF THE SPECIAL PROVISIONS FOR SPECIFIC REQUIREMENTS. THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER 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 TYPE MATERIAL OF EXISTING UNDERGROUND UTILITIES AS INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTED. 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 MOTIFY 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 ARPORT 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 AIRFIELD LIGHTING AND LIGHTING GUIDANCE SYSTEMS (NAVAIDS) LOCATED WITHIN AND IMMEDIATELY ADJACENT TO THE CONTRACTORS WORK ZONE SHALL BE CHECKED FOR OPERATIONAL CONDITION PRIOR TO THE DEPARTURE FROM THE AIRPORT WITH THE AIRPORT MANAGER, ANY 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 PAVEMENT SHALL BE REMOVED AND REPLACED AT

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

- 32. ANYTIME THE CONTRACTOR IS REQUIRED TO UTILIZE OR CROSS ACTIVE AIRFIELD PAVEMENTS FOR ACCESS TO AND FROM THE WORK ZONE, A FULL TIME CROSSING GUARD IN RADIO CONTACT WITH THE CONTROL TOWER SHALL BE FURNISHED BY THE CONTRACTOR FOR MOVEMENTS OF VEHICLES OR EQUIPMENT TO AND FROM THE WORK ZONE. THE RADIO OPERATOR SHALL BE FAMILIAR WITH AIRPORT ROGUND 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.
- 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 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
- 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 TEN (10) WORKING DAYS IN ADVANCE OF ANY PLANNED CONSTRUCTION WITHIN THESE LIMITS.

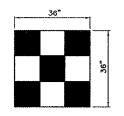
NOTE - ALL PHASES

ALL EXISTING TAXIMAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER AIRPORT ELECTRICAL CABLES SHALL REMAIN IN SERVICE UNTIL REPLACED AS ACCEPTABLE TO THE RESIDENT ENGINEER. ALL TEMPORARY CABLING AND SPLICING NECESSARY TO KEEP THE CIRCUITS IN OPERATION SHALL BE CONSIDERED INCIDENTAL TO CONTRACT.

DESIGN AIRCRAFT APPROACH CATEGORY: D DESIGN AIRPORT GROUP: III

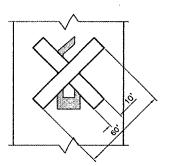
CONTRACTOR SHALL PLAN AND PERFORM HIS WORK SO AS NOT TO INTERFERE OR HINDER THE PROGRESS, WORK OR HAUL ROAD ACCESS OF OTHER CONTRACTORS (SEE SPECIAL PROVISIONS SECTION 30-05). THE PRIME CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE CONSTRUCTION ACTIVITIES AND ACCESS BETWEEN ALL ON-SITE CONTRACTORS SUBCONTRACTORS. IT IS ANTICIPATED THE FOLLOWING PROJECTS MAY BE UNDER CONSTRUCTION CONCURRENTLY WITH THIS PROJECT.

- CONSTRUCT N.E. QUADRANT T-HANGARS
- CONSTRUCT S.W. QUADRANT FIRE
 PROTECTION SYSTEM
 CONSTRUCT N.E. QUADRANT SITEWORK
- AND EAST QUADRANT APRON SITEWORK

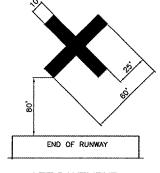


CONSTRUCTION EQUIPMENT AND TRUCK SIGNAL FLAG

NOT TO SCALE



CLOSED RUNWAY MARKER DETAIL ON PAVEMENT - NO SCALE



GROUND CONTROL FREQUENCY: 121.7

AIR CONTROL FREQUENCY: 119.9

MAXIMUM ANTICIPATED HEIGHT OF CONSTRUCTION EQUIPMENT: 25'

IN THE EVENT THE CONTRACTOR PROPOSES TO UTILIZE 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

POINT TO RUNWAY 6/24 LATITUDE: 42°06'16.71" (NAD83)

LONGITUDE: 89'41'08.77" (NAD83)

CLOSEST CONSTRUCTION

POINT TO RUNWAY 12/30 LATITUDE: 42'06'23.78" (NAD83) LONGITUDE: 89'41'17.76" (NAD83)

CLOSEST CONSTRUCTION

POINT TO RUNWAY 16/34
LATITUDE: 42'06'16.05" (NAD83)
LONGITUDE: 89'41'08.77" (NAD83)

INFORMATION FOR THE CONTRACTOR'S LISE.

OFF PAVEMENT CLOSED RUNWAY MARKER DETAIL NO SCALE

CLOSED RUNWAY MARKER DETAIL NOTES

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

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

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 TRENCHES 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 EQUIPMENT. THE CONTRACTOR WILL BE LIMITED TO 3 DAILY CLOSURES ON RUNWAY 6/24.

TAXIWAYS:

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 WITHIN THE ACUA. SHOULD IT BE INCLESSARY 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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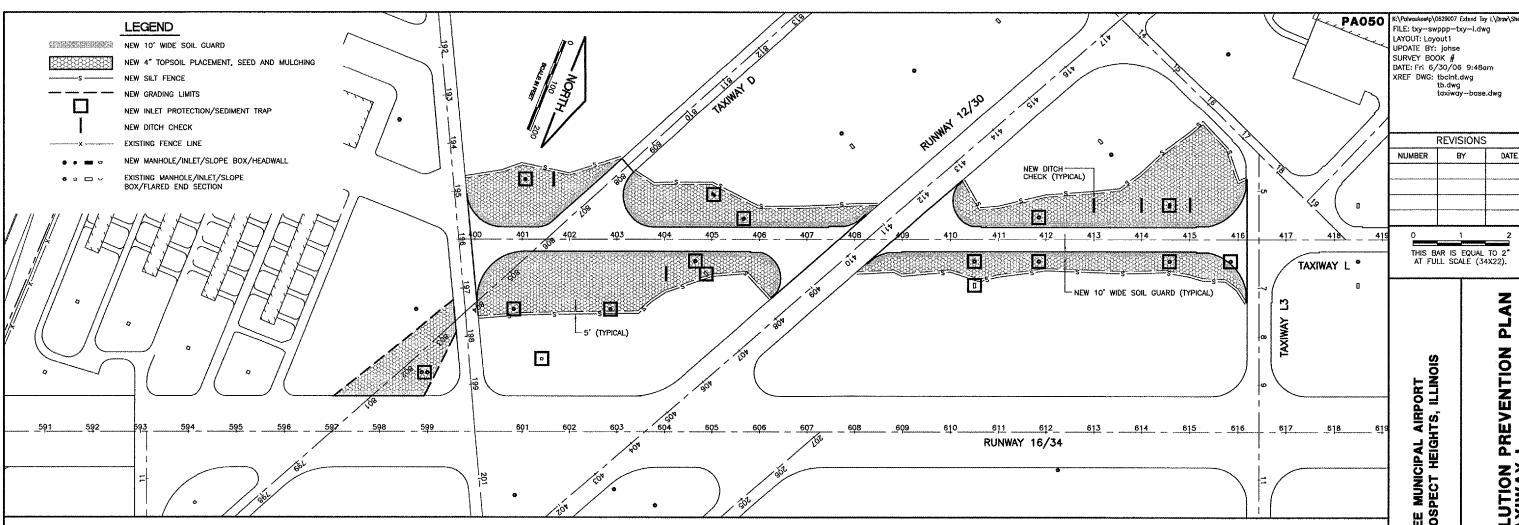
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CRAWFORD, I CONSULTING I LICENSE No. 18 DESIGN BY: JRL JRL CHECKED BY APPROVED BY: DATE: 06/29/06

ILLINOIS PROJECT: PWK-3613 A.I.P. PROJECT: 3-17-0018-B39 CHEET & OF 40 CHEETS

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JOB No:



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

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 L AND NORTHEAST QUADRANT SITEWORK 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.EXCAYATION 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.

4.PAVEMENT CONSTRUCTION

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

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

AREA OF CONSTRUCTION SITE

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 17 ACRES OF WHICH 13 ACRES WILL BE DISTURBED BY EXCAVATION, CRADING 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 CONTROL SYSTEMS.

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

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

THE CONSTRUCTION SITE DRAINS INTO THE WHEELING DRAINAGE DITCH AND DES PLAINES RIVER THROUGH A STORM

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. STABILIZETION 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

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

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

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 SISIEMS SMALL 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.

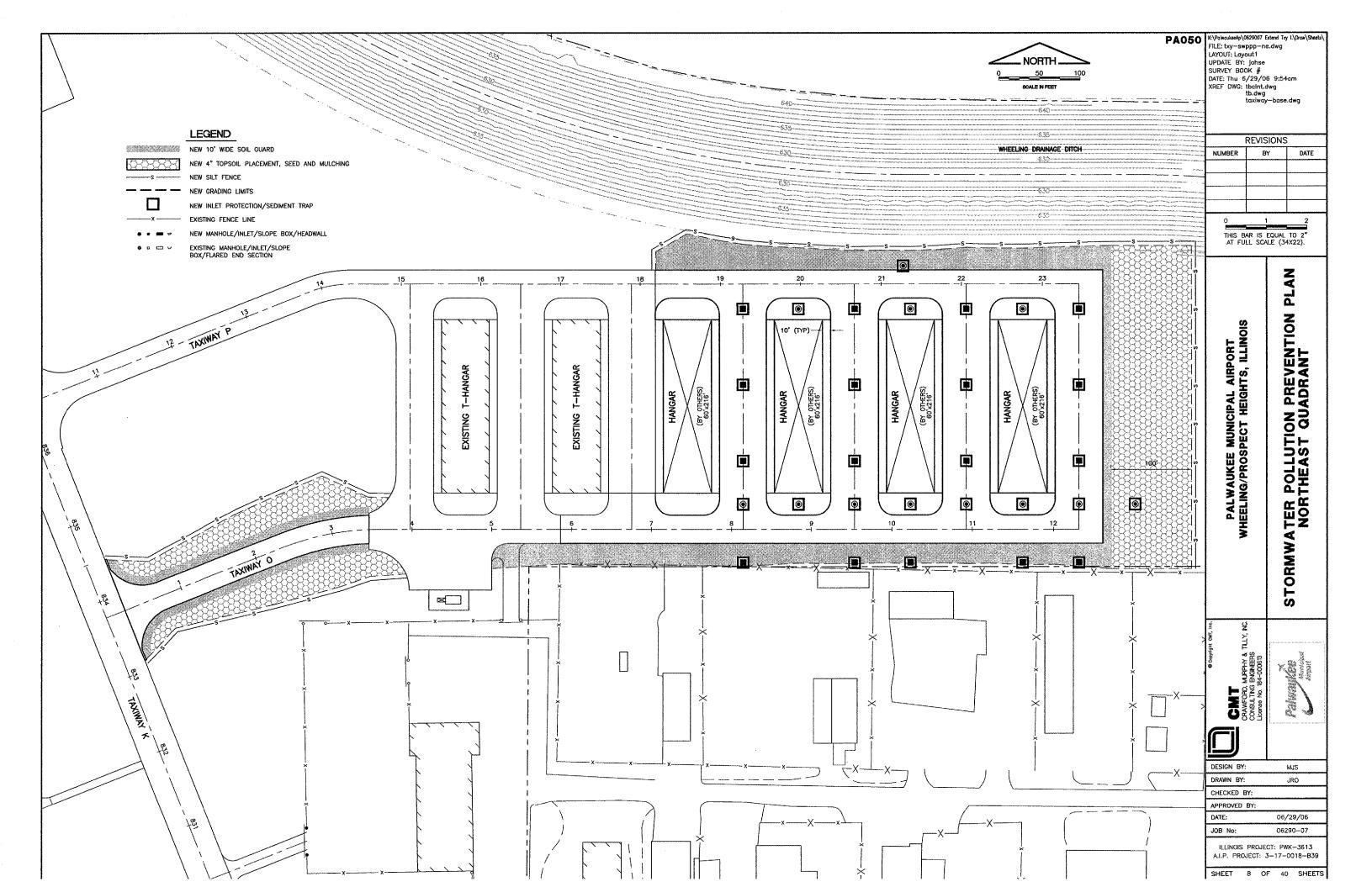
THIS BAR IS EQUAL TO 2 AT FULL SCALE (34X22) AZ 굽 Z 0 ENT ORT AL AIRP > ш Q. -MUNICIP/ PECT HE OLLUTION PALWAUKEE HEELING/PROS ۵. α Ш ORMW S DESIGN BY MJS DRAWN RY JRO CHECKED BY APPROVED BY: DATE 06/29/06 ILLINOIS PROJECT: PWK-3613 A.I.P. PROJECT: 3-17-0018-B39 SHEET 7 OF 40 SHEETS

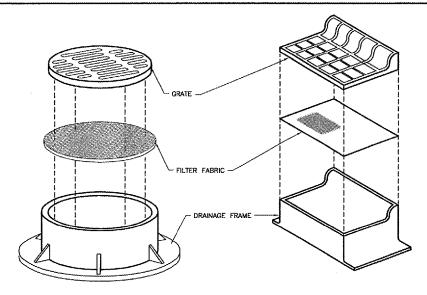
tb.dwg taxiway-base.dwg

REVISIONS

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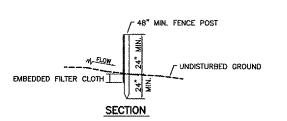
DATE





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

- SILT FENCE 48" MIN. FENCE POSTS, DRIVEN PERSPECTIVE VIEW



NOTES

BALES SHALL BE PLACED AT THE TOE OF SLOPE

OR ON A CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE

AND PLACED SO THE BINDINGS ARE

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

USEFULNESS SO AS NOT TO BLOCK OR IMPEDE

REMOVAL / REPLACEMENT

TO BE INCLUDED IN UNIT PRICE FOR INLET

OF THE ENGINEER, STRAW

BALES MAY BE REMOVED. CONTRACTOR SHALL

PLACE SOD, EXCELSION BLANKET WITH SEED OR KNITTED STRAW MAT WITH

DISTURBED AREAS. COST INCIDENTAL TO INLET

MADE PROMPTLY AS

4. INSPECTION SHALL BE

5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR

STORM FLOW OR

PROTECTION/DITCH

6. AFTER FINAL APPROVAL

SEED OVER THE

PROTECTION.

CHECK.

NEEDED.

BALES SHALL BE

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

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.

ILLINOS 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 OFICIAL - DO NOT SUBMIT PHOTOCOPY

NAME:	PALWAUKEE MUNICIPA	L AI	RPOR		ISTRUCTIONS)	OWNER TYPE:(SELECT ONE AND TYPE "X") PRIVATE COUNTY STA
MAILING ADDRES		T R	DAD			X CITY SPECIAL DISTRICT
CITY	WHEELING	ST.	iL	ZiP:	60090	FEDERAL
ONTAC				******		TELEPHONE AREA CODE NUMBER NUMBERS: 847 537-2580

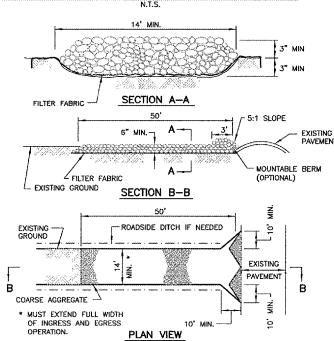
MAILING ADDRESS					ary			ST.		ZIP;	
CONST	TRUCTION	SITE INFORM	IATION								
SEL AND	ECT ONE TYPE X	X EXISTING SITE	NEW SITE		CHANGE OF INFORMATION						
FACILITY NAME	PALWAU	KEE MUNICI	PAL AIF	RPORT		Other NP Permit Num (If Applica	nbers		N/A		
MAILING ADDRESS	1020	SOUTH PLA	NT ROA	D		TELEPHONE NUMBERS:	84		537	NUMB 725	
CITY: \	WHEELIN	G	ST. J	L ZIP;	60090	LATITUDE: [ORANGST 10 SECONDS)	DEG. MIN.	Antonia .	LATITUDE: DELVERT 16 SECONDS)	DEG.	MIN. SEC
COUNTY:	соок	····	SECTION:	13	•	TOWNSHIP:	42 N	RTH	RANGE	11 E	EAST

HIPE OF CONS	INUCION				
RESIDENTIAL	COMMERCIAL	INDUSTRIAL	RECONSTRUCTION	X TRANSPORTATION	OTHER
RECEIVING WAT	ER INFORMATIO	N N			
DOES YOUR STORM W	ATER DISCHARGE DIRE	CTLY TO: (SELECT ON			*********
WATER OF THE	STATE OR	X STORM SEWE	R STORM SEWER SYSTEM	WHEELING/PROSP	ECT HTS.
NAME OF CLOSEST RECEIVING WATER (IF KNOWN)	DES PLAIN				
DOES THE QUANTITATI THE STORM WATER D			SES THE CONCENTRATION 10	OF POLLUTANTS IN	

FOR OFFICE USE DIS

s, 1991, Chapter 111 1/2, section 1039.

DRAINAGE STRUCTURE FILTER WRAP

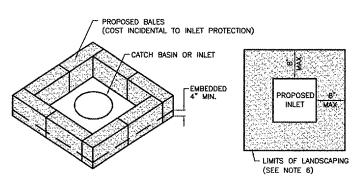


- 1. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFIED FOR AR152540 IN THE ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF AERONAUTICS SUPPLEMENTAL
- ROCK OR RECLAIMED CONCRETE SHALL MEET ONE OF THE FOLLOWING IDOT COARSE AGGREGATE GRADATION, CA-1, CA-2, CA-3 OR CA-4.
- 3. ANY DRAINAGE 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
- 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 FROM NRCS STANDARD DRAWING NO. IL-630

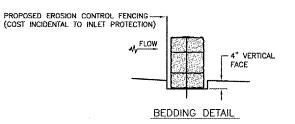
N.T.S.

EROSION CONTROL FABRIC FENCE DETAIL



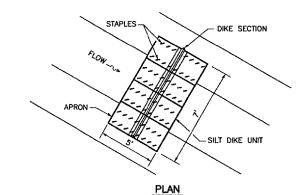
INLET PLACEMENT

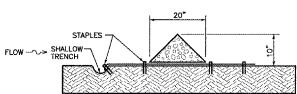
INLET PLACEMENT

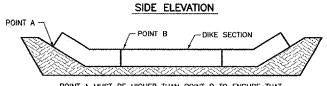


STORM INLET SEDIMENT TRAP DETAIL - TURF AREAS

N.T.S.







FRONT ELEVATION

URETHANE FOAM/GEOTEXTILE DITCH CHECK

FROM IDOT STANDARD 280001-02

THIS BAR IS EQUAL TO 2' AT FULL SCALE (34X22). /ENTION AL AIRP POLLUTION TES AND DE à È PALWAUKEE FELING/PROSI **EO** ШŽ WAT LAN Ś DESIGN BY JRL DRAWN BY JRO CHECKED BY APPROVED BY: DATE: 06/29/06 JOB No: 06290-07 ILLINOIS PROJECT: PWK-3613 A.I.P. PROJECT: 3-17-0018-B39 CHEET & OF AN CHEETS

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UPDATE BY: johse SURVEY BOOK # XREF DWG:

DATE: Fri 5/21/04 1:49pm

REVISIONS

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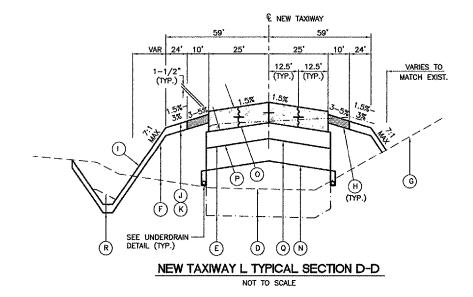
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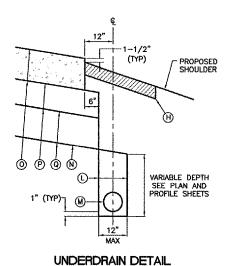
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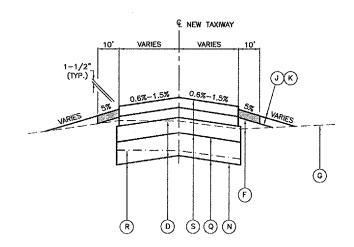
POINT A MUST BE HIGHER THAN POINT B TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

NOT TO SCALE

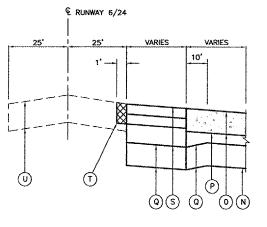




EDGE OF P.C.C. PAVEMENT AREAS



NEW TAXIWAY L TYPICAL SECTION E-E NOT TO SCALE



TYPICAL SECTION F-F NOT TO SCALE

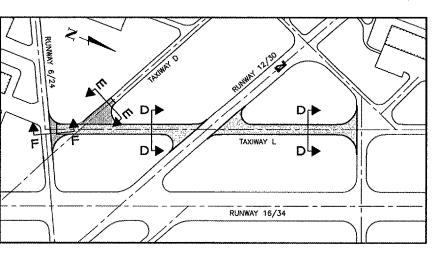
LEGEND

- (A) NEW 2" BITUMINOUS SURFACE COURSE (401) NEW 2" BITUMINOUS BASE COURSE (201) NEW 7" CRUSHED AGGREGATE BASE COURSE (209)
- B) NEW TACK COAT (603)
- © NEW PRIME COAT (602)
- D PROPOSED 12" (AVG.) TOPSOIL STRIPPING (152)
- (E) PROPOSED EMBANKMENT FILL (152)
- F PROPOSED SHOULDER FILL (152)
- © EXISTING GROUND LINE
- (H) NEW 10' WIDE SOIL GUARD
- 1 PROPOSED GROUND LINE
- J PROPOSED TOPSOIL PLACEMENT (4" DEPTH) (905)
- (K) PROPOSED SEEDING AND MULCHING (901 AND 908)
- (L) PROPOSED POROUS BACKFILL (705)
- M NEW 6" CPPUP WITH SOCK (705)
- (N) NEW SOIL STABILIZATION FABRIC
- (501) NEW 10" P.C.C. PAVEMENT
- (209) NEW 6" CRUSHED AGGREGATE BASE COURSE (209)
- (208) NEW 12" POROUS GRANULAR EMBANKMENT (208)
- R PROPOSED UNCLASSIFIED EXCAVATION (152)
- (\$) NEW 4" BITUMINOUS SURFACE COURSE (401) NEW 4" BITUMINOUS BASE COURSE (201) NEW 18" CRUSHED AGGREGATE BASE COURSE (209)
- $\begin{picture}(60,0)\put(0,0){\line(1,0){10}}\put(0,0){\line(1,0){10}$

(U) EXISTING BITUMINOUS PAVEMENT (DEPTH VARIES 8"-12")

NOTES

1. FOR NEW P.C.C. PAVEMENTS, THE CRUSHED AGGREGATE BASE COURSE SHALL BE CONSTRUCTED TO 0'~6" BEYOND THE EDGE OF PAVEMENT. THE POROUS GRANULAR EMBANKMENT SHALL BE CONSTRUCTED TO 1'-6" BEYOND THE EDGE OF PAYEMENT.



KEY MAP

PAO50 K:\PalwaukeeAp\0629007 Extend Txy L\Draw\Shee FILE: txy-typsec.dwg LAYOUT: Layout1 UPDATE BY: msmejkal SURVEY BOOK # DATE: Thu 6/29/06 3:18pm XREF DWG: tbcInt.dwg taxiway-base.dwg tb.dwg REVISIONS

NUMBER BY DATE

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

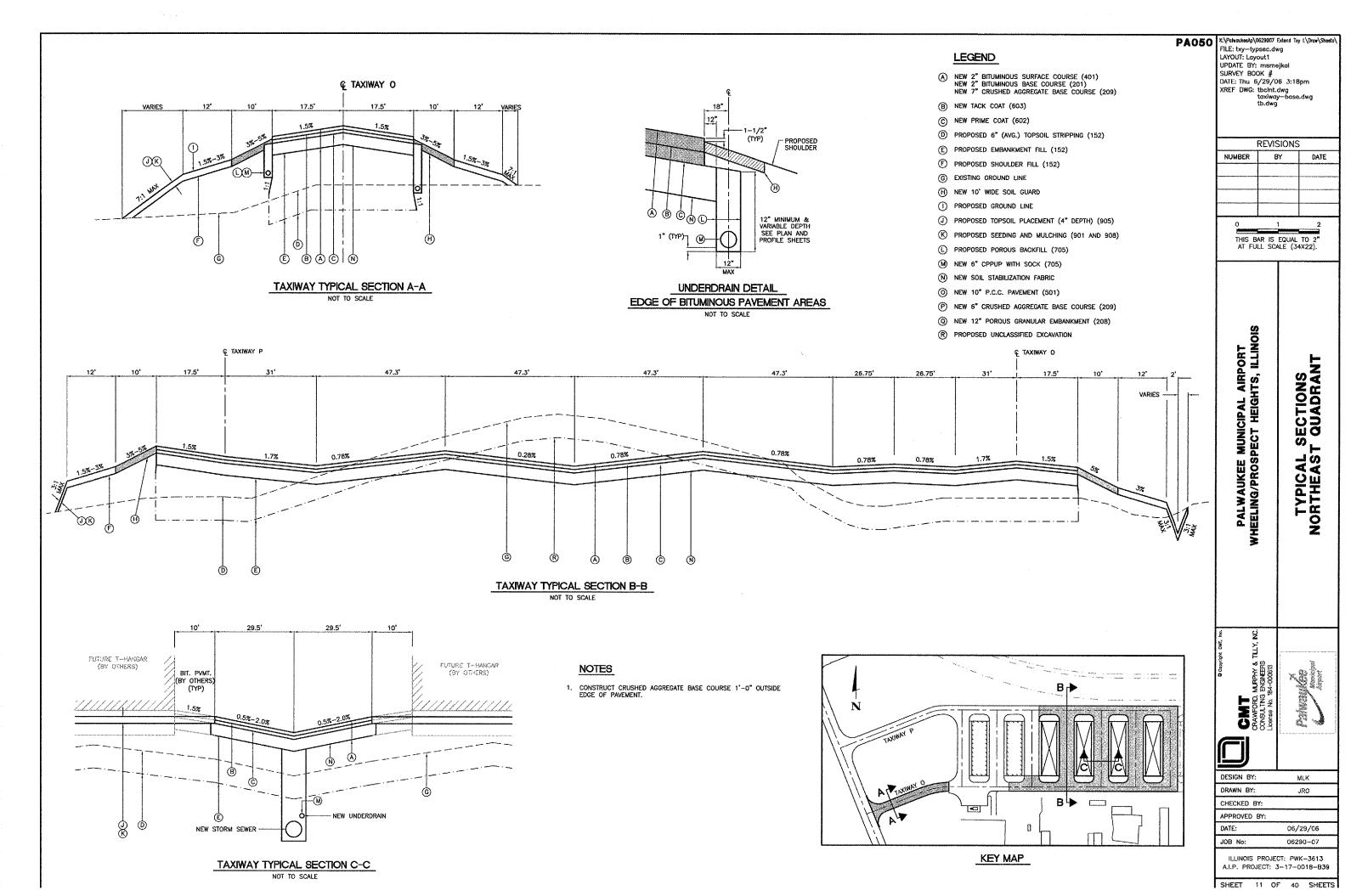
AXIW. ICIPAL AIRPO CTIONS PALWAUKEE WHEELING/PROS Ш S TYPICAL

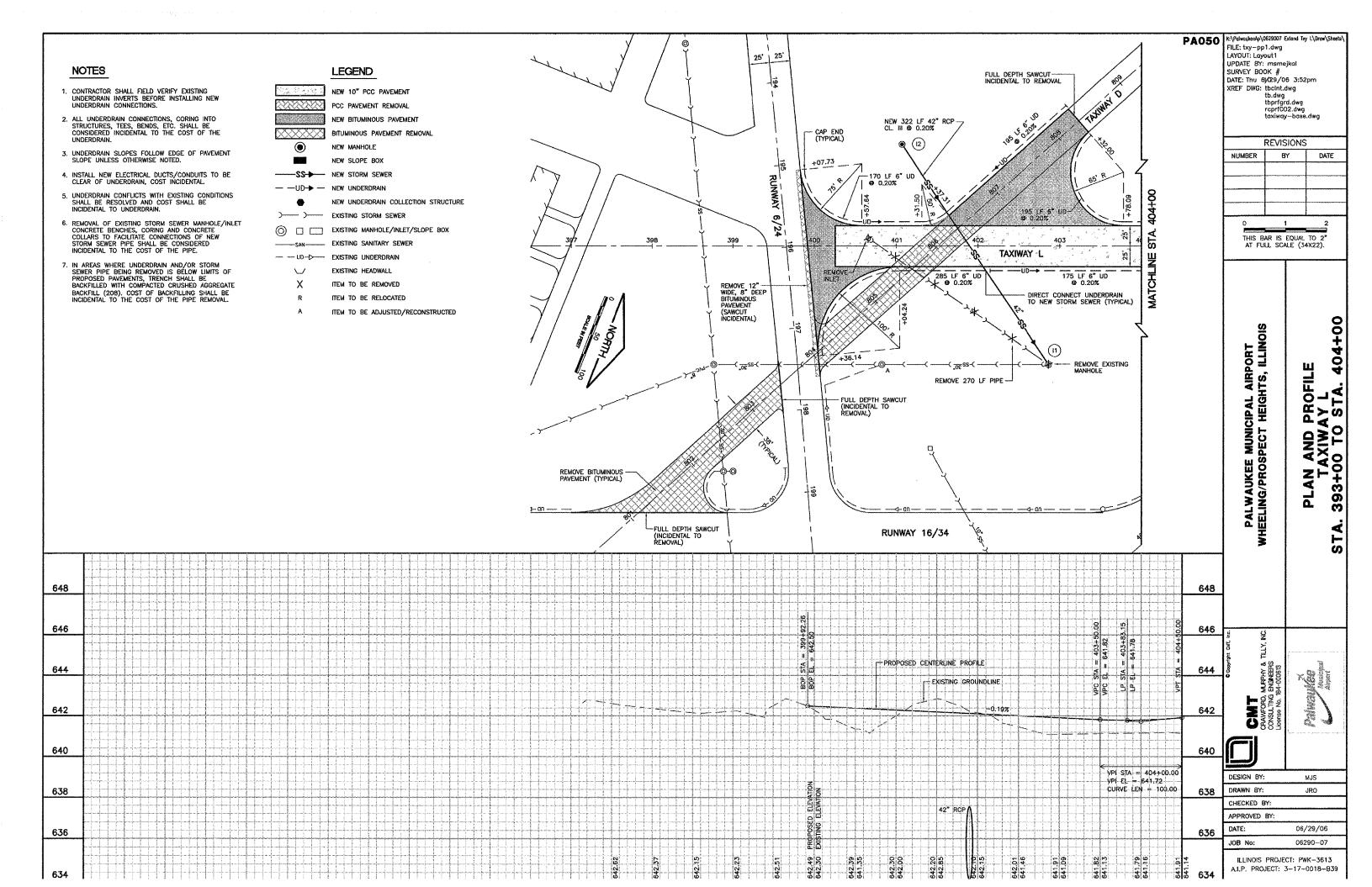
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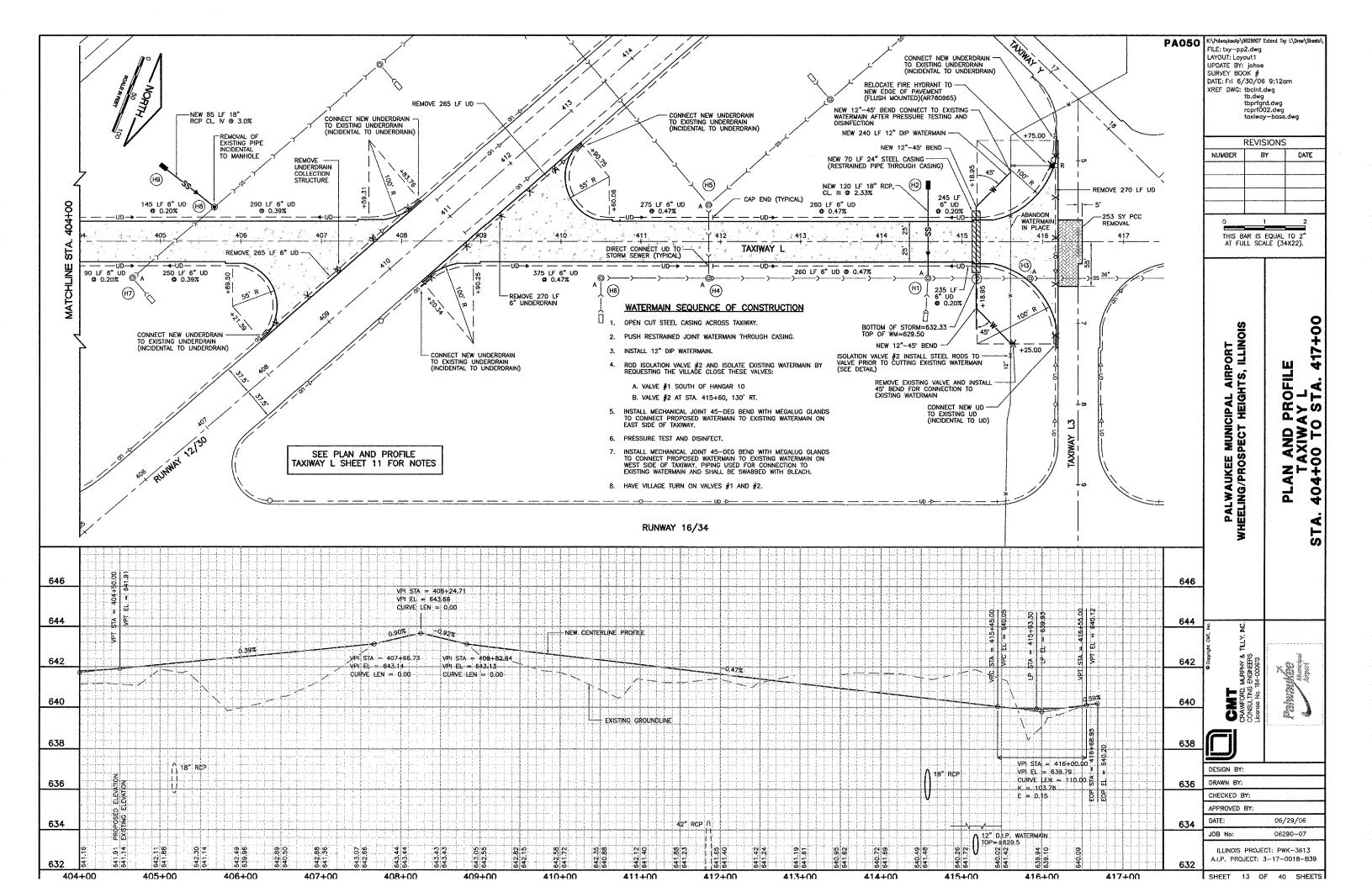
DESIGN BY: MLK JRO CHECKED BY:

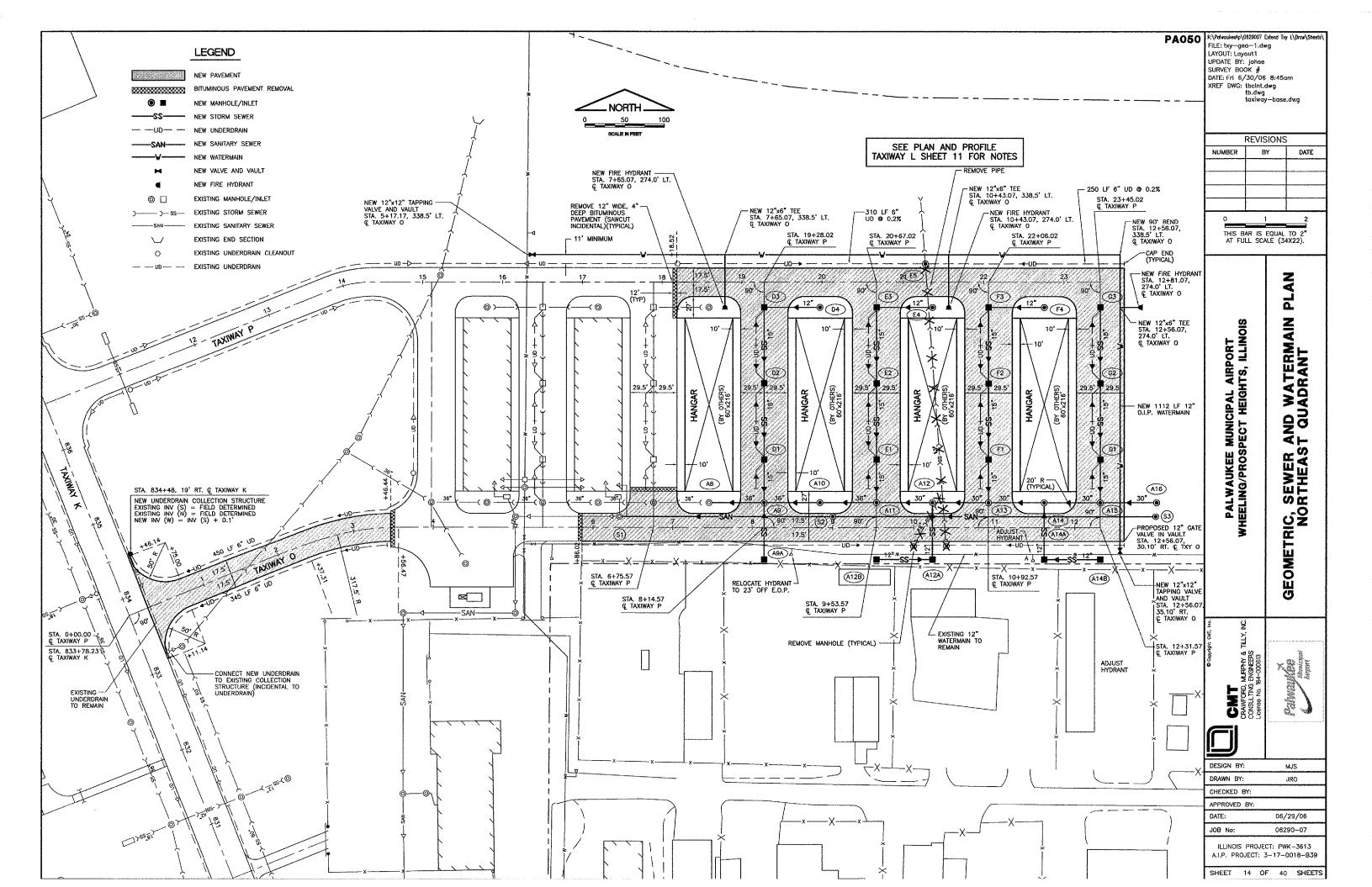
APPROVED BY DATE: 06/29/06

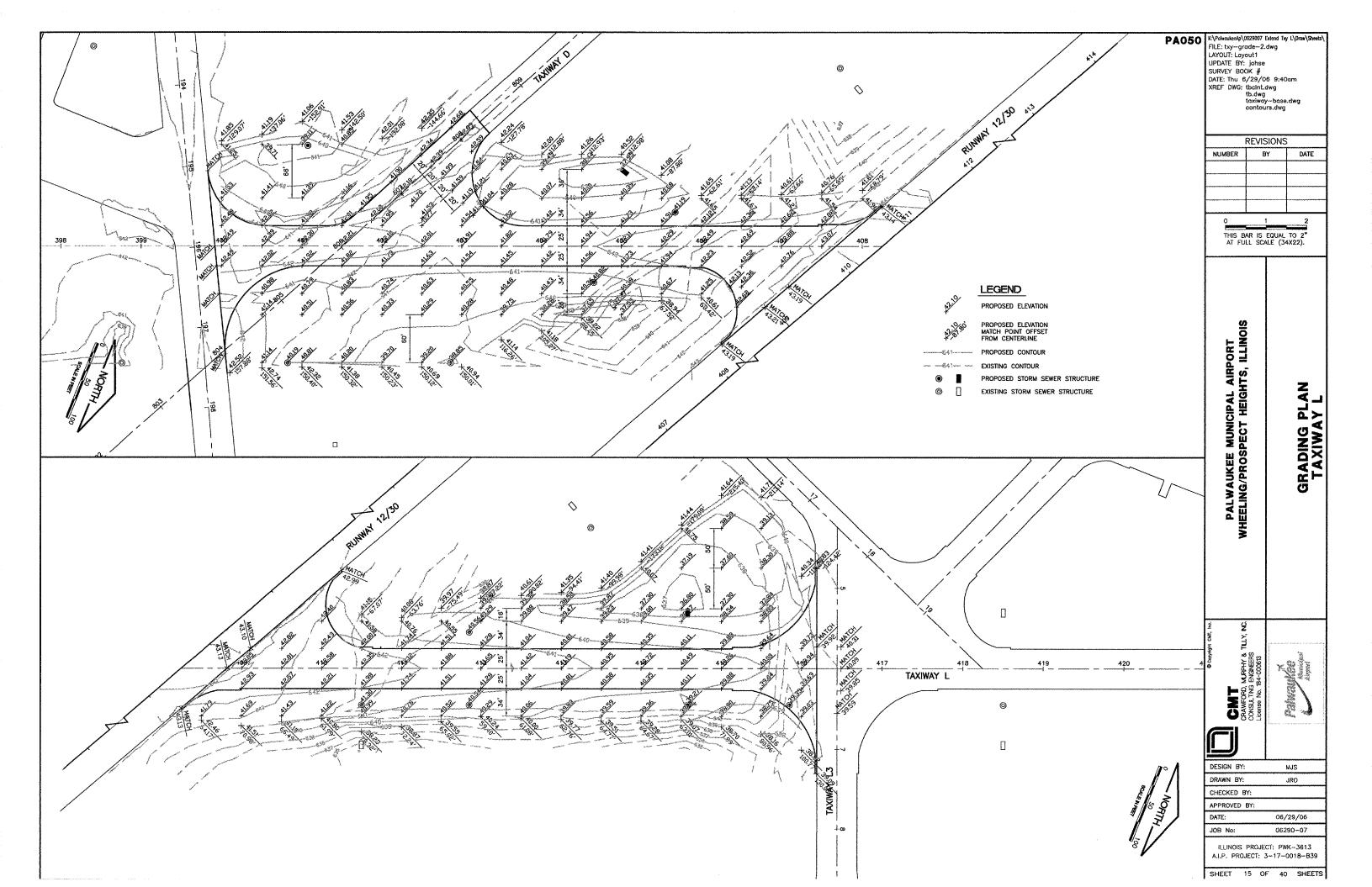
ILLINOIS PROJECT: PWK-3613 A.I.P. PROJECT: 3-17-0018-B39

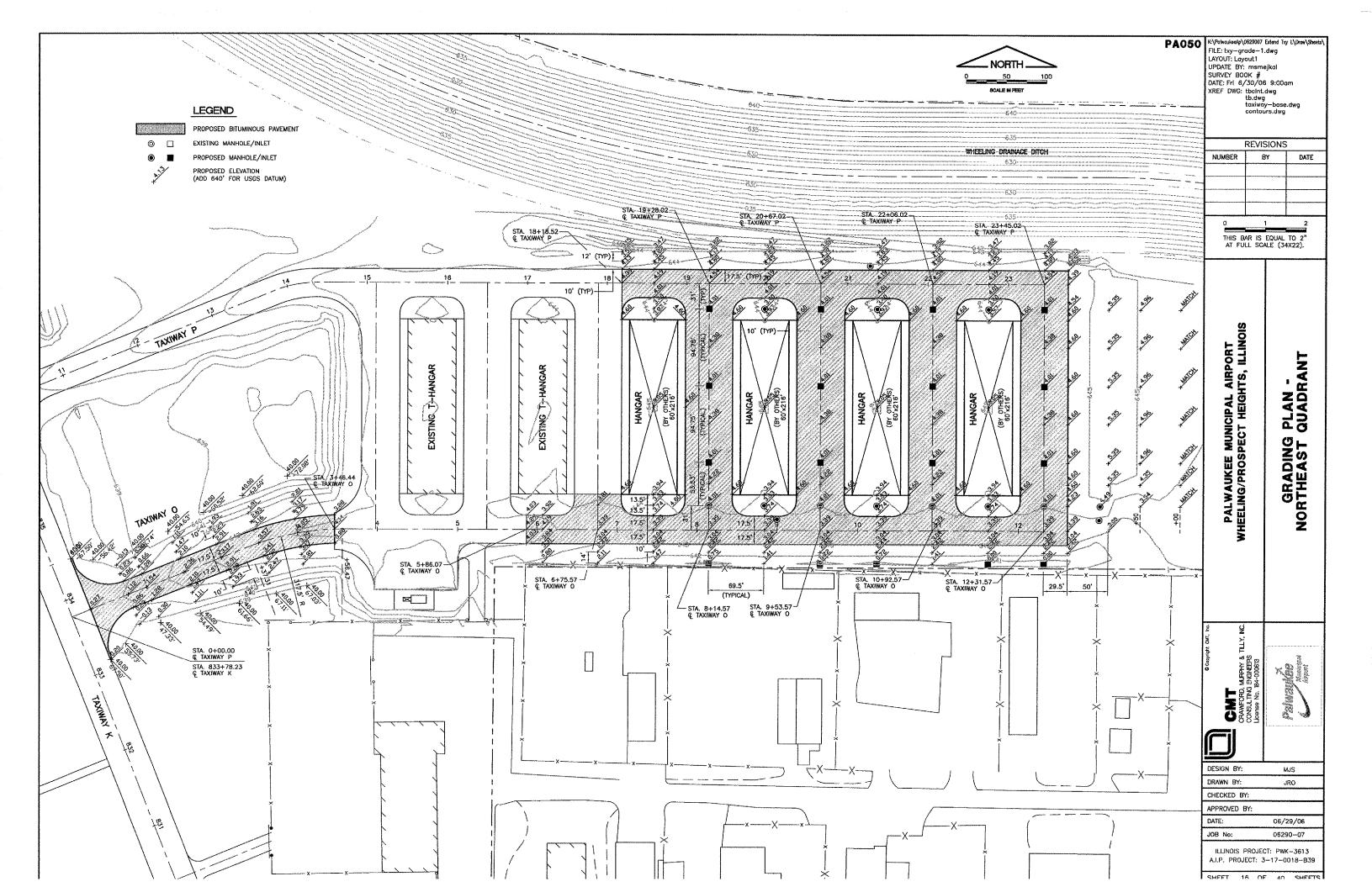


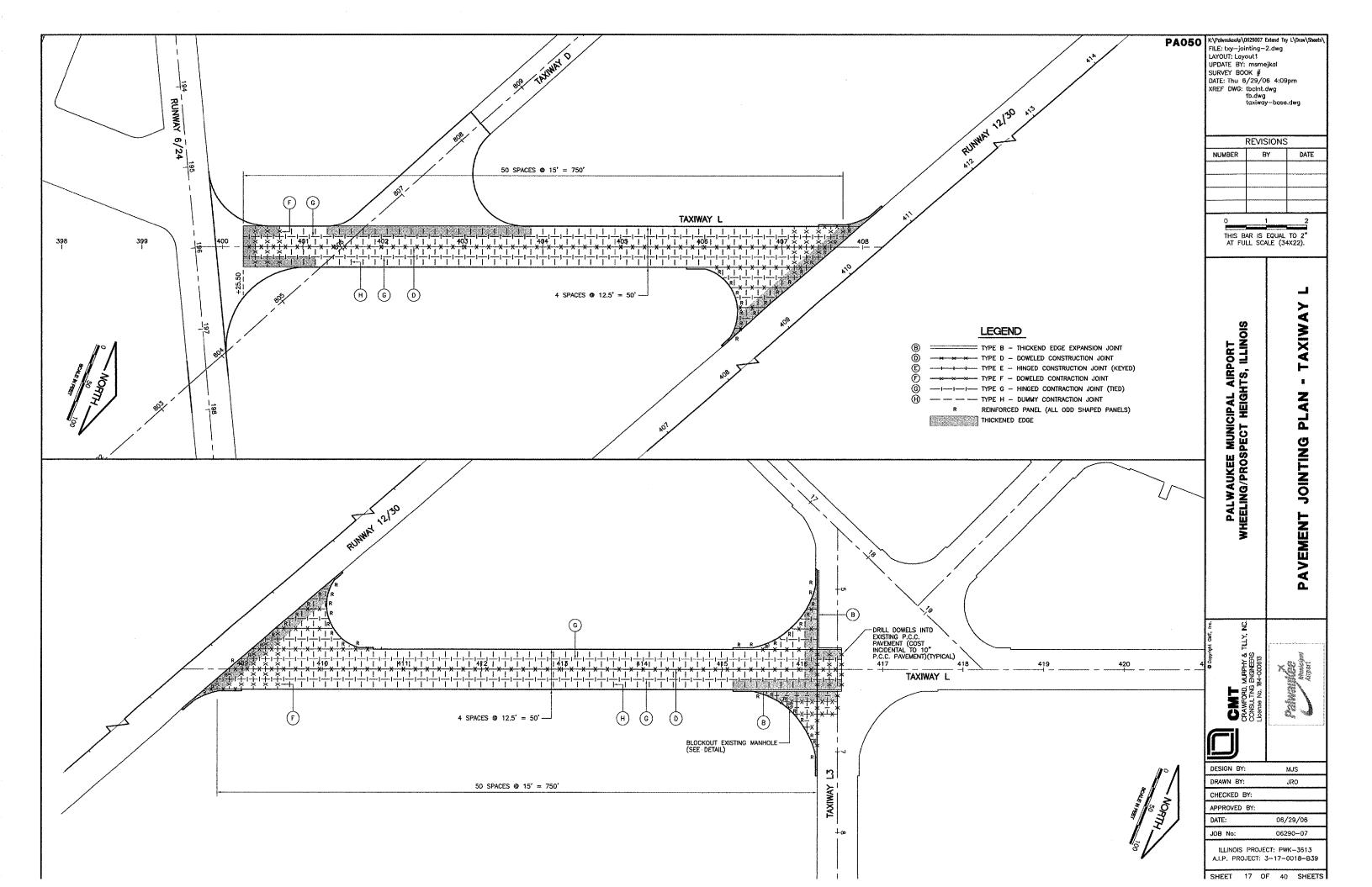


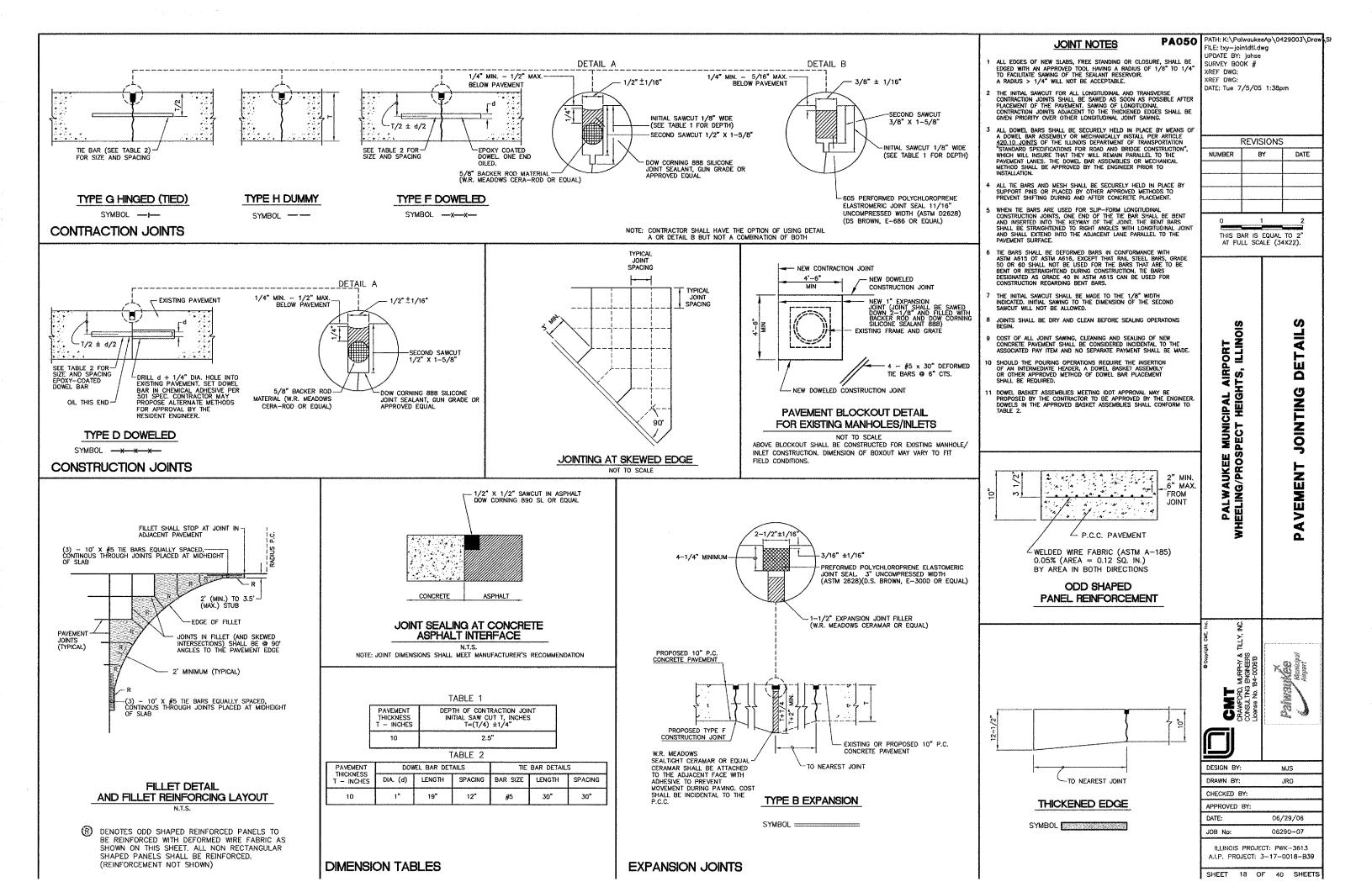






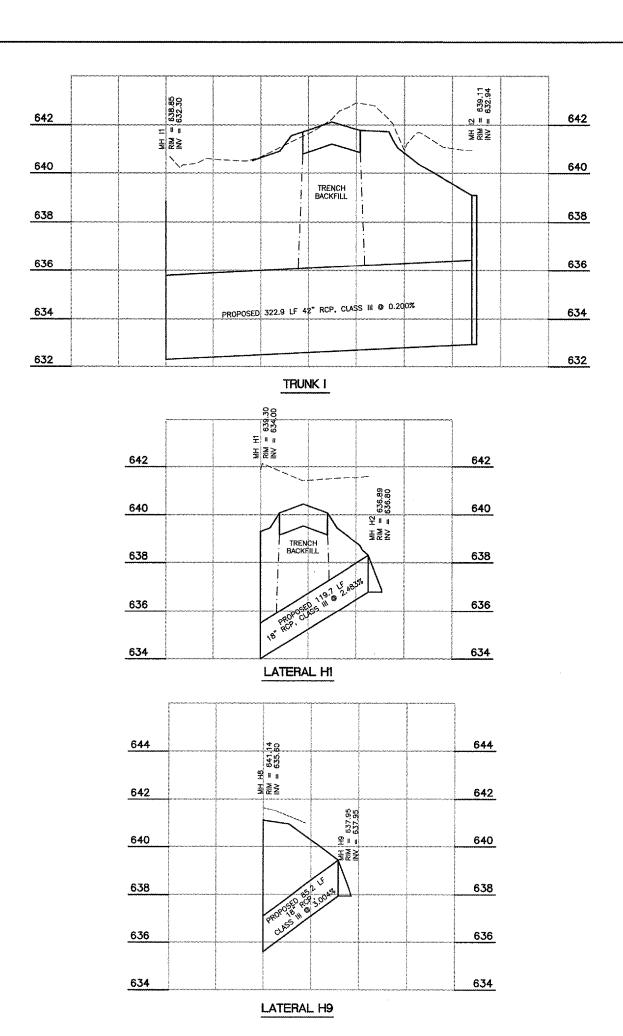






STORM SEWER SCHEDULE

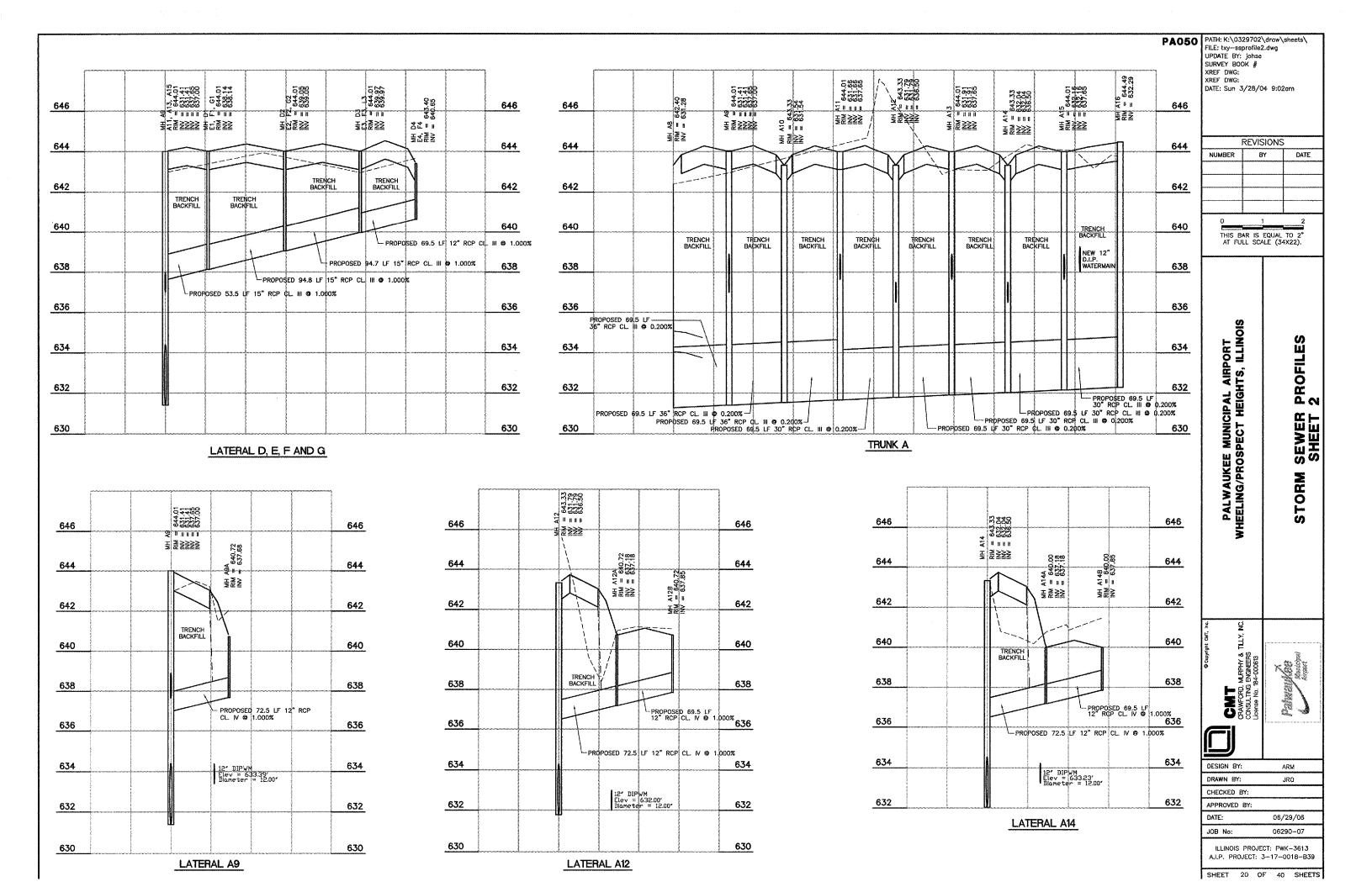
RUCTURE NO.	TYPE	STRUCTURE TYPE	RIM	INVERTS
A8	7+45.06, 31' LT TAXIWAY O	ADJUST EXIST. A-6 MH W/ TYPE 1 FRAME AND OPEN LID	EXIST 642.2 PROP 643.33	EXIST 36" (W) = 631. 36" (E) = 631.
A9	B+14.57, 31' LT TAXIWAY O	TYPE A-7 MH W/ TYPE 1 FRAME AND OPEN LID	644.01	36" (W) = 631. 36" (E) = 631. 15" (A) = 637.
A9A	8+14.57, 41.5' RT	TYPE A INLET W/ TYPE 1	640.72	15" (N) = 637. 12" (S) = 637. 12 (N) = 637.
A10	TAXIWAY 0 8+84.07, 31' LT	FRAME AND OPEN LID TYPE A-6 MH W/ TYPE 1	643.33	36" (W) = 631.
A11	TAXIWAY 0 9+53.57, 31' LT	FRAME AND OPEN LID TYPE A-7 MH W/ TYPE 1	644.01	36" (E) = 631. 36" (W) = 631.
A11	TAXIWAY O	FRAME AND OPEN LID	044.01	30" (E) = 631. 15" (N) = 637.
A12	10+23.07, 31' LT TAXIWAY 0	TYPE A-6 MH W/ TYPE 1 FRAME AND OPEN LID	643.33	30" (W) = 631 30" (E) = 631 12" (S) = 636
A12A	10+23,07, 41.5' RT TAXIWAY 0	TYPE B INLET W/ TYPE 1 FRAME AND OPEN LID	640.72	12" (N) = 637 12" (W) = 637
A128	9+53.57, 41.5' RT TAXIWAY O	TYPE A INLET W/ TYPE 1 FRAME AND OPEN LID	640.72	12" (E) = 637
A13	10+92.57, 31' LT TAXIWAY O	TYPE A-6 MH W/ TYPE 1 FRAME AND OPEN LID	644.01	30" (W) = 631 30" (E) = 631
A14	11+62.07, 31' LT	TYPE A-6 MH W/ TYPE 1	643.33	15" (N) = 637 30" (W) = 632
	TAXIWAY O	FRAME AND OPEN LID		30" (E) = 632 12" (S) = 636
A14A	11+62.07, 41.5' RT TAXIWAY O	TYPE B INLET W/ TYPE 1 FRAME AND OPEN LID	640.00	12" (N) = 637
A148	12+31.57, 41.5' RT	TYPE A INLET W/ TYPE 1	640.00	12" (E) = 637 12" (W) = 637
A15	TAXIWAY O 12+31.57, 31° LT	FRAME AND OPEN LID TYPE A-6 MH W/ TYPE 1	644.01	30" (W) = 632
	TAXIWAY O	FRAME AND OPEN LID	<u></u>	30" (E) = 632 15" (N) = 637
A16	13+01,57, 31' LT TAXIWAY 0	TYPE A-6 MH W/TYPE 1 FRAME AND OPEN LID	644.49	30" (W) = 632
D1	8+14.57, 84.5' LT TAXIWAY O	TYPE 1 INLET	644.01	15" (S) = 638 15" (N) = 638
D2	8+14.57, 179.25' LT	TYPE 1 INLET	644.01	15" (S) = 639 15" (N) = 639
D3	8+14.57, 274' LT TAXIWAY O	TYPE 1 INLET	644.01	15" (S) = 639 12" (E) = 639
D4	8+84.07, 274' LT	TYPE A INLET W/ TYPE 1	643.40	12 (E) = 639 12" (W) = 640
E1	TAXIWAY 0 9+53.57, 84.5' LT	TYPE 1 INLET	644,01	15" (S) = 638
E2	TAXIWAY 0 9+53.57, 179.25' LT	TYPE 1 INLET	644.01	15" (N) = 638 15" (S) = 639
E3	TAXIWAY 0 9+53.57, 274' LT	TYPE 1 INLET	644.01	15" (N) = 639 15" (S) = 639
E4	TAXIWAY 0 10+23.07, 274' LT	TYPE A INLET W/ TYPE 1	643.40	12" (E) = 639 12" (W) = 640
E5	TAXIWAY 0 10+30.00, 325' LT	FRAME AND OPEN LID TYPE A4 MANHOLE W/ TYPE	644.23	12" (N) = 63
F1	TAXIWAY 0 10+92.57, 84.5' LT	1 FRAME AND CLOSED LID TYPE 1 INLET	644.01	12" (S) = 63 15" (S) = 638
F2	TAXIWAY 0 10+92.57, 179.25' L	TYPE 1 INLET	644.01	15" (N) = 638 15" (S) = 639
F3	TAXIWAY 0 10+92.57, 274 LT	TYPE 1 INLET	644.01	15" (N) = 639 15" (S) = 639
F4	TAXIWAY 0 11+62.07, 274' LT	TYPE A INLET W/ TYPE 1	643.40	12" (E) = 639 12" (W) = 640
	TAXIWAY O	FRAME AND OPEN LID		
G1	12+31.57, 84.5' LT TAXIWAY O		644.01	15" (S) = 638 15" (N) = 638
G2	12+31.57, 179.25' L TAXIWAY O	TYPE 1 INLET	644.01	15" (S) = 639 15" (N) = 639
G3		TYPE 1 INLET	644.01	15" (S) = 639 12" (E) = 639
11		REPLACE EXIST MH W/ TYPE A-7 MH W/ TYPE 1 FRAME AND OPEN LID	638.85	EXIST 30" (S) = 632 42" (W) = 632
12	401+07.22, 124' LT	TYPE A-5 MH W/ TYPE 1	639,11	42" (E) = 632
Н1	TAXIWAY L 414+57.82, 45' RT TAXIWAY L	FRAME AND OPEN LID RECONSTRUCT EXIST. A-5 MH	EXIST 642.13 PROP 639.30	EXIST 36" (N) = 632 EXIST 36" (S) = 632 EXIST 18" (E) = 632
H2	414+57.82, 75' LT	18" SLOPE BOX INLET	N/A	18" (W) = 634. 18" (E) = 636.
нз	TAXIWAY L 415+84, 45' RT TAXIWAY L	RECONSTRUCT EXIST MH	EXIST 637.52 PROP 639.35	
H4	411+85, 45' RT TAXIWAY L	ADJUST EXIST MH	EXIST 640.98 PROP 640.51	
H5	411+85, 45' LT	ADJUST EXIST MH	EXIST 641.60	
H6	TAXIWAY L 410+50, 45' RT	ADJUST EXIST MH	PROP 640.41 EXIST 640.87	
Н7	TAXIWAY L 404+67, 45' RT TAXIWAY L	ADJUST EXIST MH	PROP 641.20 EXIST 641.68	
Н8	405+62, 42' LT	TYPE A-4 MH W/ TYPE 1	PROP 640.78 641.14	EXIST. 18" (W) = 635 EXIST 18" (E) = 635
Н9	TAXIWAY L 405+00.95, 95' LT	FRAME AND OPEN LID 18" SLOPE BOX INLET	N/A	EXIST 18" (E) = 635 18" (S) = 635. 18" (N) = 637.
H10	TAXIWAY L 400+00, 120' RT	ADJUST EXIST MH	EXIST 641.61	- (1)
HIU	TAXIWAY L	UNANSI EVISI MU	PROP 640.19	

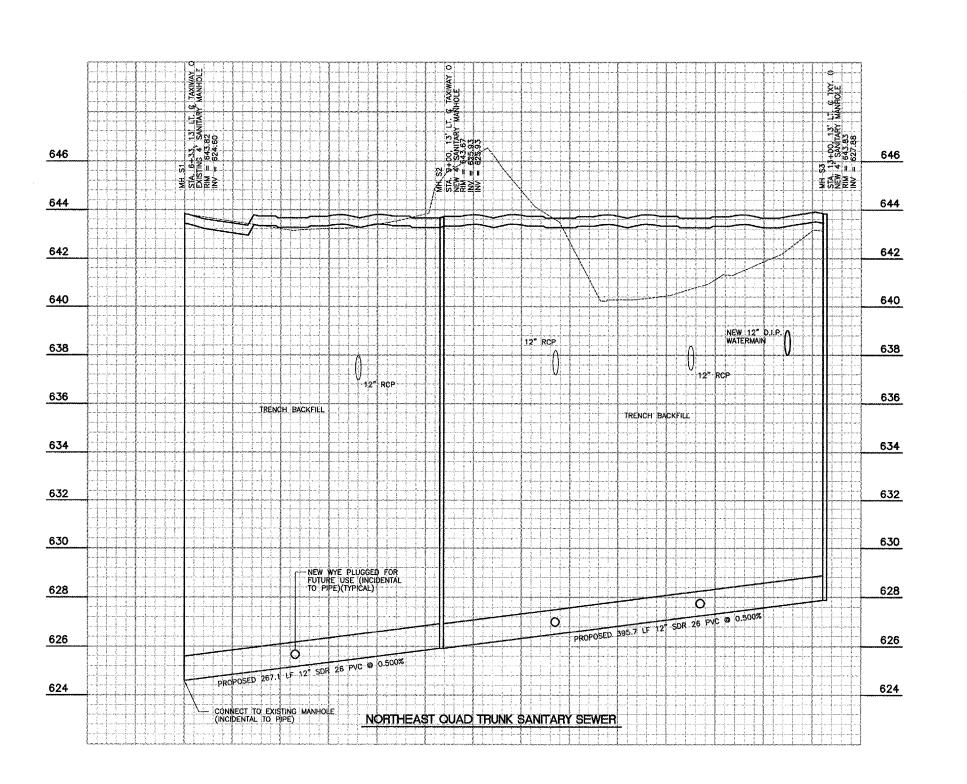


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UPDATE BY: Johse
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XREF DWG:
XREF DWG:
DATE: Sun 3/28/04 9:02am REVISIONS BY NUMBER DATE THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22). PALWAUKEE MUNICIPAL AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS PROFILES SEWER SHEET STORM CRAWFORD, P DESIGN BY: ARM DRAWN BY: JRO CHECKED BY: APPROVED BY: DATE: 06/29/06 06290--07 JOB No:

ILLINOIS PROJECT: PWK-3613
A.I.P. PROJECT: 3-17-0018-B39

SHEET 19 OF 40 SHEETS





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FILE: sanprofile.dwg
UPDATE BY: johse
SURVEY BOOK #
XREF DWG: XREF DWG: DATE: Sun 3/28/04 9:02am

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-		

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

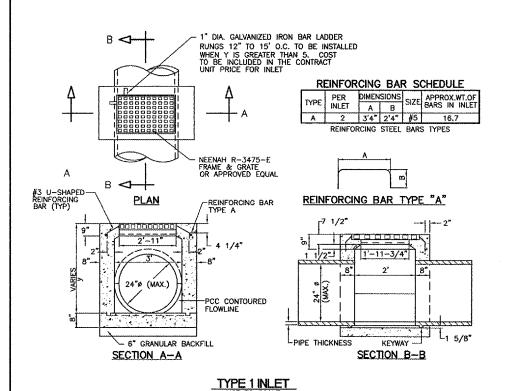
SEWER PROFILE

PALWAUKEE MUNICIPAL AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS SANITARY



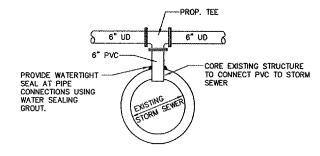
	.t
DESIGN BY:	ARM
DRAWN BY:	JRO
CHECKED BY:	
APPROVED BY:	
DATE:	06/29/06
JOB No:	06290-07
ILLINOIS PROJE	CT- DWK-3613

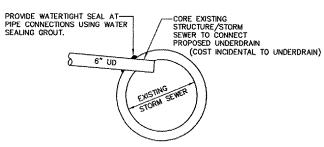
A.I.P. PROJECT: 3-17-0018-B39



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.



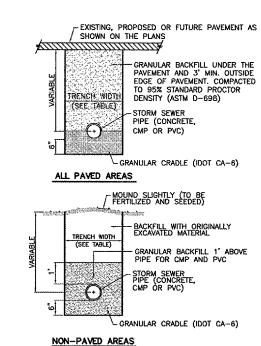


UNDERDRAIN CONNECTION DETAILS

NOT TO SCALE

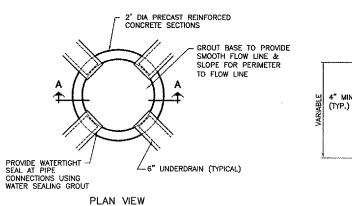
UNDERDRAIN CONNECTIONS AND FITTINGS, TEES AND ELBOWS USED FOR CONNECTIONS TO PROPOSED STRUCTURES AND STORM SEWERS / EXISTING STRUCTURES AND STORM SEWERS, SHALL
BE CONSIDERED INCIDENTAL TO THE PROPOSED UNDERDRAIN.

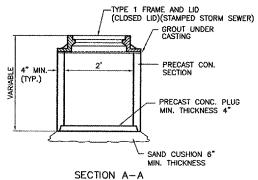
INSIDE DIAMETER OF STORM SEWER (INCHES)	MAXIMUM TRENCH WIDTH	
6	3'-7"	
8	3'-9"	
12	4'-2"	
15	4'-6"	
15 18 21 24 27 30	3'-9" 4'-2" 4'-6" 4'-9" 5'-0" 5'-4"	
21	5'-0"	
24	5'~4"	
27	5'~7"	
30	5'-11"	
36	6'-6"	
36 42 48 54	7'-1"	
48	7'-8"	
54	8'-3"	
60	5'-7" 5'-11" 6'-6" 7'-1" 7'-8" 8'-3" 8'-10" 9'-5"	
66	9'-5"	
72 78	10'~0"	
	10'~0" 10'~7"	
84	11'-2"	
90	11'-2" 11'-9"	
96	12'-4" 12'-11"	
102	12'-11"	
108	13'~6"	



PA050 | PATH: K:\0329702\draw\sheets\ FILE: drndtl1.dwg UPDATE BY: johse SURVEY BOOK # XREF DWG: XREF DWG:

DATE: Sun 3/28/04 9:02am





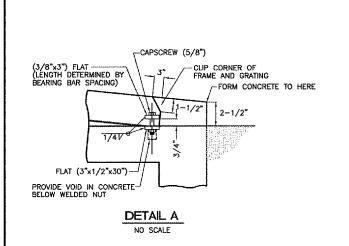
UNDERDRAIN COLLECTION STRUCTURE DETAIL

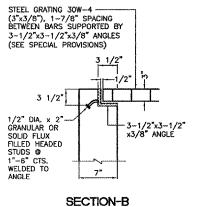
NOT TO SCALE

STORM SEWER/UNDERDRAIN NOTES

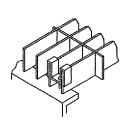
- CONTRACTOR SHALL FIELD VERIFY EXISTING STORM SEWER/UNDERDRAIN INVERTS BEFORE INSTALLING PROPOSED PIPE, CONNECTIONS AND ORDERING MATERIALS,
- ALL UNDERDRAIN CONNECTIONS, CORING INTO STRUCTURES, TEES, BENDS, STORM SEWER ETC. SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE UNDERDRAIN.
- 3. UNDERDRAIN SLOPES FOLLOW EDGE OF PAVEMENT SLOPE UNLESS OTHERWISE NOTED.
- 4. INSTALL PROPOSED ELECTRICAL DUCTS/CONDUITS TO BE CLEAR OF UNDERDRAIN, COST INCIDENTAL.
- 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 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.

CMT CRAWFORD MARPHY & TLLY INC. CONSULTING PROSPECT HEIGHTS, ILLINOIS LEGISS IN SECTIONS LEGIS LEGIS IN SECTIONS LEGIS LEGIS LEGIS LEGIS LEGIS LE		REVIS	SIONS	
PALWAUKEE MUNICIPAL AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS TO 3. O. O. DEAINAGE DETAILS	NUMBER	6	BY	DATE
WHEELING/PROSPECT HEIGHTS, ILLINOIS WHEELING/PROSPECT HEIGHTS, ILLINOIS TO 3. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.				
WHEELING/PROSPECT HEIGHTS, ILLINOIS WHEELING/PROSPECT HEIGHTS, ILLINOIS TO 3. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.				
WHEELING/PROSPECT HEIGHTS, ILLINOIS WHEELING/PROSPECT HEIGHTS, ILLINOIS TO 3. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	***************			
WHEELING/PROSPECT HEIGHTS, ILLINOIS WHEELING/PROSPECT HEIGHTS, ILLINOIS DRAINAGE DETAILS				
PALWAUKEE MUNICIPAL A WHEELING/PROSPECT HEIGHT DRAINAGE DETA	THIS	BAR IS	EQUAL 1	TO 2"
CANT CRAWFORD, MJRPHY & TLLY, INC. CONSULTING ENGINEERS License No. 184-000513 Particles No. 184-000513 Ambicipal	ALWAUKEE MUNICIPAL A	WHEELING/PROSPECT HEIGHTS, ILLINOIS		DETAIL
	O Copyright CMT, Inc.	CRAWFORD, MURPHY & TILLY, INC. CONSULTING ENGINEERS License No. 184-000613	Z. Z	Missional
DESIGN BY: ARM	DESIGN BY	r :		
DRAWN BY: JRO			JF	RO.
DRAWN BY: JRO CHECKED BY:	DRAWN BY	': BY:	JF	RO
DRAWN BY: JRO CHECKED BY: APPROVED BY:	DRAWN BY CHECKED APPROVED	': BY:		
DRAWN BY: JRO CHECKED BY:	DRAWN BY CHECKED APPROVED DATE:	': BY:	06/2	9/06



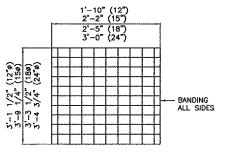


NO SCALE



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

NO SCALE



GRATING DETAILS - PLAN VIEW

NO SCALE

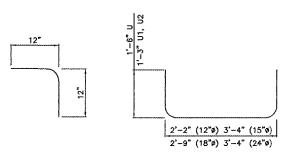
ONE SECTION OF GRATING DETAILED.

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.



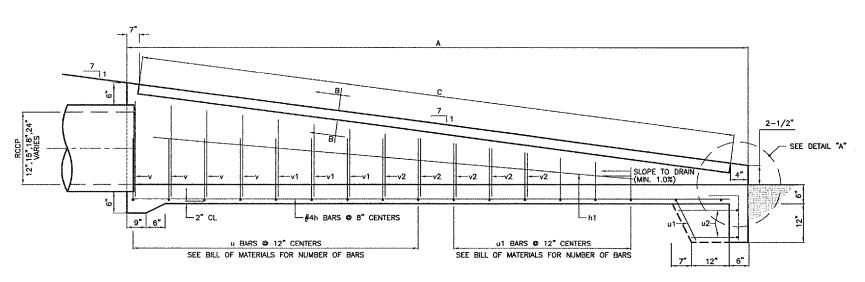
BAR L NO SCALE BAR U, U1 AND U2

BILL OF MATERIALS INLET BOX

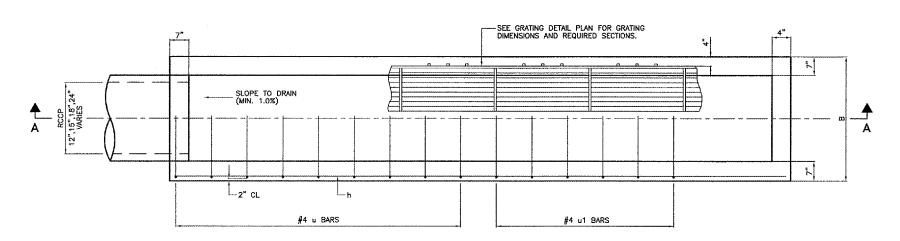
TYPE	BAR	QUANTITY	SIZE	LENGTH
12"	h	4	#4	9'11" 11'7"
15"	h	4	#4	11'-7"
18"	h	6	#4	13'~8"
24"	h	6	#4	17'-6"
12*	h1	2	#4	8'-0"
15"	h1	2	#4	10'~0"
18"	h1	2	#4	12'-0"
24"	h1	2	#4	15'-0"
12"	L	4	#4	2'-0"
15"	L.	4	#4	2'-0"
18"	L	4	#4	2'-0"
24"	L	4	#4	2'-0"
12*	U	4	#4	5'-2"
15"	U	6	#4	5'-6"
18"	Ü	8	#4	5'-9"
24"	Ü	12	#4	6'-4"
	····	·····		
12"	U1	4	#4	4'-8"
15"	U1	3 4	#4	5'-0" 5'-3"
18" 24"	U1	4	#4	5'-10"
12"	U2	2	#4	4'8"
15"	U2	22	#4	5'-0"
18"	U2	2	#4	5'-3"
24"	U2	2	#4	5'-10"
12"	٧	4	#4	1'-4"
15"	V	4	#4	1'-8"
18"	٧	6	#4	1'-10"
24*		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"
CONC	RETE ST	RUCTURES	T	
12"ø			CU.YD.	2
15"ø			CU.YD.	2
18"ø			CU.YD.	3
24"ø			CU.YD.	3
REINF	ORCEME	NT BARS		
12"ø		·····	POUND	85
			POUND	100
15"ø			POUND	145
18"ø				000
			POUND	200
18"ø 24"ø	NG		POUND	200
18"ø 24"ø GRATII 12"ø	1G		SQ.FT.	18
18"ø 24"ø GRATII	1G			
18"ø 24"ø GRATII 12"ø	1G		SQ.FT.	18

TABLE OF DIMENSIONS

DIMENSION	12 " ø	15"ø	18 " ø	24"ø
A	10'-3"	12'-1"	14'-0"	17'-10"
8	2'-6"	2'-10"	3'-1"	3'~8"
C	9'-5"	11'-4"	13'-3"	17'~1"



SECTION A-A



PLAN NO SCALE

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22). PALWAUKEE MUNICIPAL AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS AIL DET. ᆸ ŏ m SLOPE CENT DESIGN BY: ATI DRAWN BY: JRO

CHECKED BY:

APPROVED BY:

06/29/06

06290-07

ILLINOIS PROJECT: PWK--3513
A.I.P. PROJECT: 3-17-0018-B39

SHEET 23 OF 40 SHEETS

DATE:

JOB No:

PA050 PATH: K:\0329005\drow\sheets\
FILE: tby-sbox.dwg
UPDATE BY: johse
SURVEY BOOK #
XREF DWG:

DATE: Fri 5/21/04 1:57pm

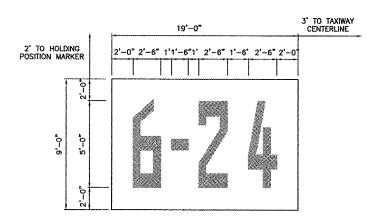
REVISIONS

BY

DATE

XREF DWG:

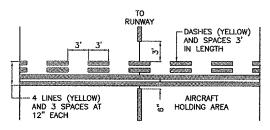
NUMBER



SURFACE PAINTED HOLDING POSITION SIGN

NO SCALE

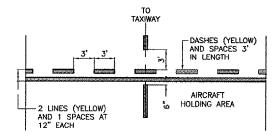
- ALL SURFACE PAINTED HOLDING POSITION SIGNS SHALL HAVE A RED BACKGROUND WITH A WHITE INSCRIPTION, AND WILL BE OUTLINED WITH A 6" BLACK BORDER.
- 6 AND 24 OR 12 AND 30 MAY BE SWITCHED DEPENDING ON WHICH TAXIWAY IS BEING MARKED. SEE PLAN SHEET FOR ORIENTATION OF NUMERALS.



RUNWAY HOLDING POSITION MARKER

NO SCALE

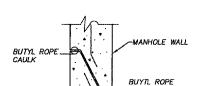
NOTE: ALL HOLDING POSITION MARKINGS SHALL HAVE $6^{\rm th}$ WIDE BLACK BORDER.



TAXIWAY HOLDING POSITION MARKER

NO SCALE

NOTE: ALL HOLDING POSITION MARKINGS SHALL HAVE 6" WIDE BLACK BORDER.

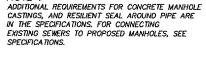


TYP. MANHOLE WALL JOINT

CAULK OR O-RING GASKET (TYP. ALL JOINTS)

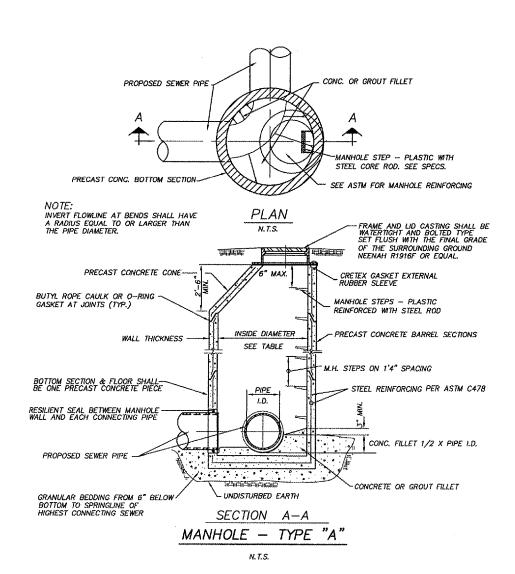
N. 1.5.

COINC. SUPPORT FOR AN UNDERCUT SEWER TO BE USED ONLY WHERE REQ'D. BY THE ENG. AND SHALL BE PAID FOR PER CU YD. UNDER "CONC. CRADLE OR ENCASEMENT" BID ITEM. IF CONC. SUPPORT IS NOT REQ'D. SELECTED GRANULAR BACKFILL SHALL EXTEND TO TOP OF EXIST. SEWER.



MANHOLE TYPE	INSIDE DIA.	MIN. WALL THICKNESS
A-4	4'-0"	5"
A~5	5'-0"	6"
A6	6'-0"	7"

NOTE :



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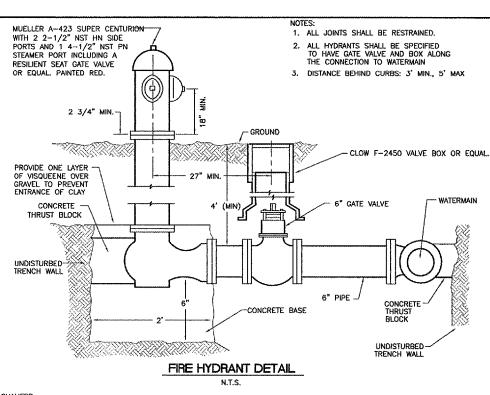
UPDATE BY: johse
SURVEY BOOK #
XREF DWG:
XREF DWG:
DATE: Tue 6/10/03 11:08am

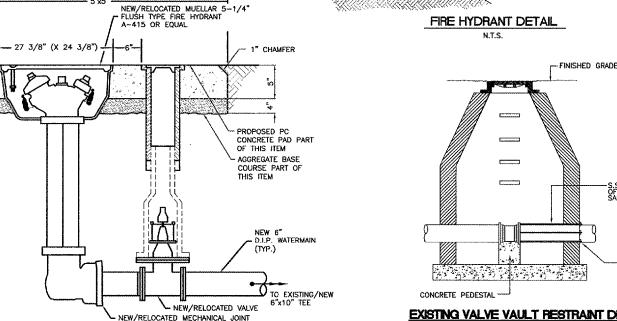
R	REVISIONS								
NUMBER	BY	DATE							

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

S A PALWAUKEE MUNICIPAL AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS S 9 ANE CELL Ö 3 AND ARY ANIT S DESIGN BY: MJS DRAWN BY: JRO CHECKED BY: MJS APPROVED BY: DATE: 06/29/06 06290-07 JOB No: ILLINOIS PROJECT: PWK-3613

A.I.P. PROJECT: 3-17-0018-839





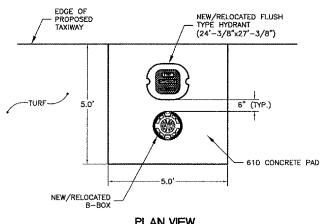
NEW/RELOCATED FLUSH MOUNTED HYDRANT

NOT TO SCALE

GENERAL NOTES:

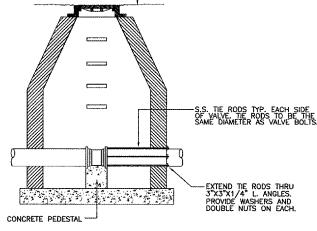
CONTRACTOR TO COMPLETE INSTALLATION OF CONCRETE PADS FOR FLUSH MOUNTED HYDRANTS AFTER COMPLETION OF TAXIWAY PAVEMENT CONSTRUCTION.

4) CONCRETE PAD SHALL BE SLOPED 1.5 % TO DRAIN AWAY FROM THE TAXIWAY.



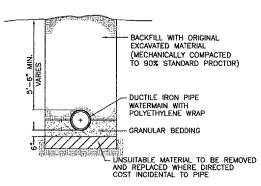
PLAN VIEW

NOTE: CONTRACTOR TO VERIFY EXISTING 12" WATERMAIN LOCATION TO ENSURE CONSTRUCTION OF HYDRANTS AND WATERMAINS



EXISTING VALVE VAULT RESTRAINT DETAIL

N.T.S.

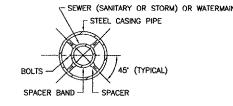


NON-PAVED AREAS

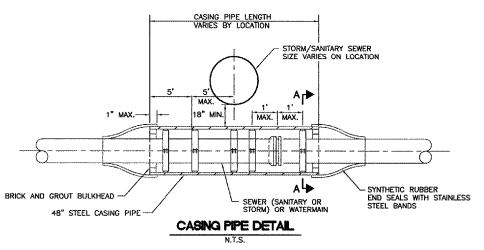
TRENCH DETAILS - WATERMAIN

N.T.S.

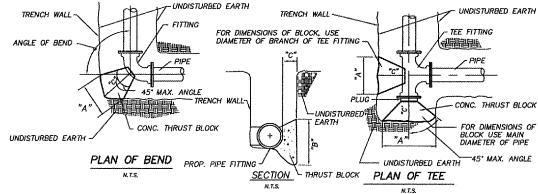




SECTION A-A



- 1. AT LEAST THREE CASING CHOCKS/PIPE LENGTH SHALL BE INSTALLED WITH THE CASING PIPE.
- 2. THE CASING SPACER SHALL BE CENTERED AND RESTRAINED TYPE.
- 3. THE SPACER BANDS SHALL BE STAINLESS STEEL.
- 4. ALL FASTENER HARDWARE (I.E. NUTS, BOLTS AND WASHERS) ASSOCIATED WITH THE CASING SPACERS SHALL BE STAINLESS STEEL.
- 5. THE SPACERS SHALL BE STAINLESS STEEL OR NONMETALLIC MATERIAL



100	P.S.	I. TA	BLE												
SIZE	g	O" BEN	D	4	5" BEN	D	22-	1/2° B	END	11-	1/4" 8	END	TEE	OR P	LUG
SIZE	Α	В	C	A	B	C	A	В	С	Α	В	C	A	B	C
4"& 6"	2'~0"	1'-4"	9"	1'-6"	1'~0"	6"	1'-1"	0'-8"	6"	0'-9"	0'~6"	6*	2'~5"	1'~7"	1'-0"
8"	2'8"	1*~10*	1'~0"	2'-0"	1'-4"	8"	1'-5"	1'-0"	8"	1'-0"	0'-8"	8*	3'-2"	2'-2"	1'3"
10"	3'-4"	2'-3"	1'-3"	2'-6"	1'-8"	10"	1'-9"	1'-2"	8"	1'-3"	0'-10"	8"	4'-0"	2'~8"	1'-7"
12"	4'-0"	2'~8"	1'-6"	3'-0"	2'~0"	1'-0"	2'-2"	1'~5"	8*	1'-6"	1'~0"	8"	4'-10"	3'~2"	1'~11"
14"	4"-8"	3'2"	1-9"	3'-6"	2'-4"	1'-2"	2'-5"	1'-8"	8"	1'-9"	1'-2"	8"	5'-7"	3'~9"	2'-3"
16"	5'4"	3'-7"	2'~0"	3'~11"	2'~8"	1'~4"	2'-10"	1'-11"	9"	2'-0"	1'-4"	8*	6'-4"	4'~3"	2'-6"
18"	6'-0"	4'-0"	2'-3"	4'5"	3'-0"	1'-5"	3'~2"	2'-2"	10"	2'-3"	1'-6"	8"	7'-2"	4'-9"	2'-10"
20"	6'-B"	4'-5"	2'-6"	4'-11"	3'4"	1'-8"	3'-6"	2'-4"	11"	2'-6"	1'-8"	8*	7'-11"	5'-4"	3'-2"
24"	8'-0"	5'-4"	3'-0"	5'-11"	3'-11"	2'-0"	4'-3"	2'-10"	1'-1"	3'0"	2'-0"	8"	9'-6"	6'-4"	3'-9"

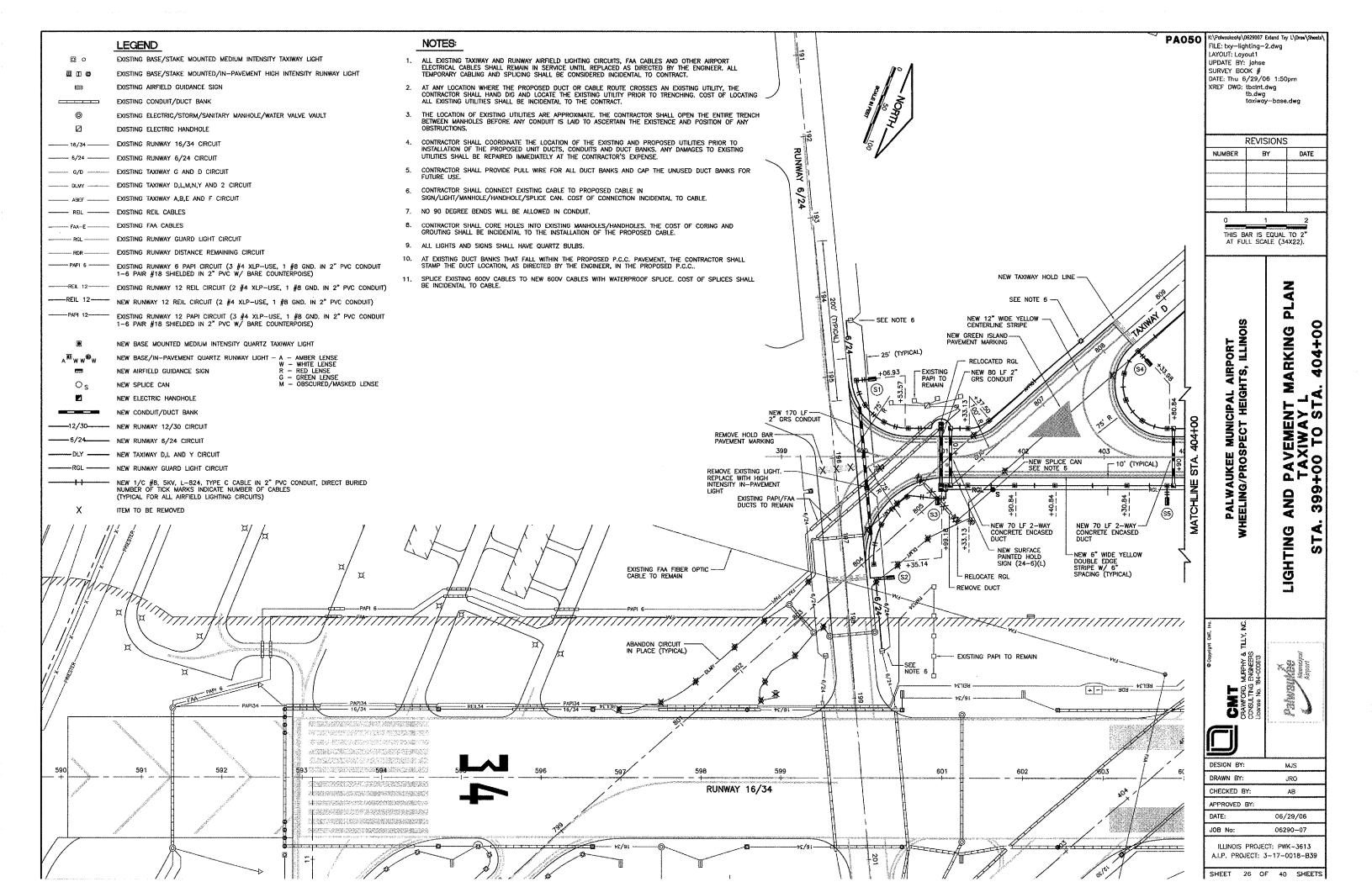
(FOR HORIZONTAL ALIGNMENT)

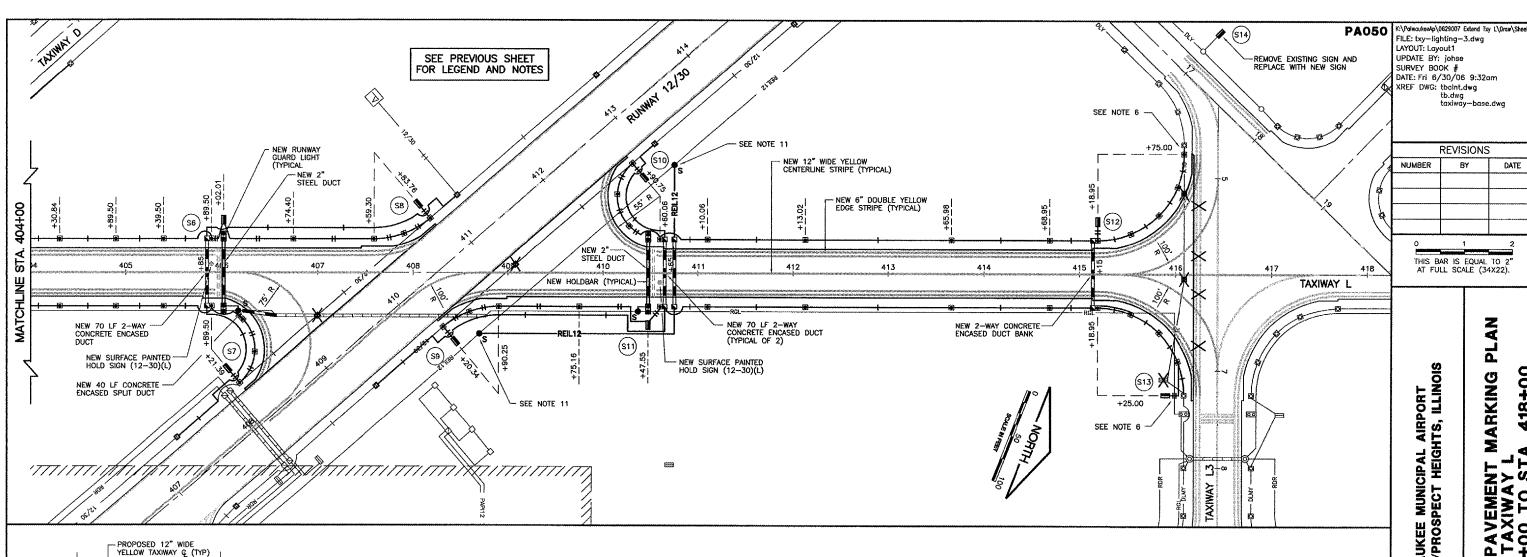
- NOTES:
- 1 ALL BENDS, TEES, PLUGS, FITTINGS OR OTHER SIGNIFICANT CHANGES IN ALIGNMENT STALL BE BRACED WITH POURED CONCRETE THRUST BLOCKS FITTINGS WITH RETAINING GLANDS WILL NOT BE ALLOWED.
- 2. °C' DIMENSION SHALL BE AS REQUIRED TO REACH UNDISTURBED EARTH BUT NOT LESS THAN VALUE LISTED IN TABLE.
- 3. DIMENSIONS "A" AND "B" ARE BASED ON INTERNAL PIPE PRESSURE OF 100 P.S.I. AND BEARING ON THE UNDISTURBED SOIL OF 1500 P.S.F.
- 4. "B"= HEIGHT OF THRUST BLOCK
- 5. ALL PLUGS SHALL BE SEPARATED FROM THE CONCRETE THRUST BLOCK BY A LAYER OF 5 MIL PLASTIC SHEET
- 5. ALL POURED CONCRETE SHALL BE 3000 psi 9 28 DAYS.

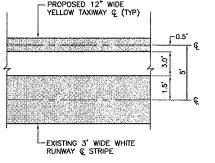
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	NUMBER	REVISIO BY	NS DATE				
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	0	1	2				
	THIS B	AR IS EQI LL SCALE	JAL TO 2"				
	PALWAUKEE MUNICIPAL AIRPORT WHEELING/PROSPECT HEIGHTS. ILLINOIS		WATERMAIN DETAILS				
.	O CODY/GPT OF THEY NO.	CONSLING ENGNEERS License No. 184-000613	Parkage Medicinal Municipal Municipa				
							
	DESIGN BY:		MJS				
	DRAWN BY: CHECKED B	Y:	JRO MJS				
	APPROVED						
	DATE:		06/29/06				
DAYS.	JOB No:		0629007				
			PWK-3613 7-0018-B39				

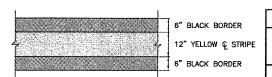
SHEET 25 OF 40 SHEETS

THRUST BLOCK DETAILS









AIRFIELD SIGNAGE SCHEDULE							
NEW	NEW	NEW	NEW	NEW			
SIGN	SIGN	SIGN	SIGN	SIGN			
NUMBER	FACE	LEGEND	TYPE	LOCATION			
Ş1	E	Br¥nk	0	STA. 195+06.93, 45' LT.			
	W	_J ●	3	Q RUNWAY 6/24			
S2	E	● T	0	STA. 197+XX.XX, 45' LT.			
	W	16-34	1	Ç RUNWAY 6/24			
S3	N	9-#3] 7	1,2	STA, 400+99.18, 50' RT.			
	S	L	2	© TAXIWAY L			
S4	NW	* 7 # 0	3,2	STA. 808+33.98, 45' RT.			
	SE	D	2	G TAXIWAY D			
S5	X S	\$ 0 7	3,2 2	STA. 403+80.84, 50' RT. © TAXIWAY L			
S6	2 5	1 L 12-30	2 2,1	STA. 406+02.01, 50' LT. © TAXIWAY L			
\$ 7	NW	BFVNK	0	STA. 408+21.39, 75° LT.			
	SE	J Ф	3	G RUNWAY 12/30			
S8	NW	# 7	3	STA. 410+83.76, 75' LT.			
	SE	BLANK	0	Ç RUNWAY 12/30			
j		DLANK	'	Ψ NONWAT 12/30			

AIRFIELD SIGNAGE SCHEDULE							
NEW	NEW	NEW	NEW	NEW			
SIGN	SIGN	SIGN	SIGN	SIGN			
NUMBER	FACE	LEGEND	TYPE	LOCATION			
S9	NW	Brynk	0	STA. 410+20.34, 75' RT.			
	SE		3	© RUNWAY 12/30			
S10	NW	1 ♦	3	STA. 412+90.75, 75' RT.			
	SE	BLANK	0	© RUNWAY 12/30			
S11	N	Z102 1	1,2	STA. 410+60.06, 50' RT.			
	S	L	2	© TAXIWAY L			
S12	N	T	2	STA. 415+18.95, 50' RT.			
	S	●Y L L3●	3,2,3	Ç TAXIWAY L			
S13	₩]	2	STA. 7+25.00, 50' RT.			
	E	[3] #L#	2,3	Ç TAXIWAY L			
S14	X S	ALSYLS#L *	2 3,2,3,3	STA. 17+00.00, 45' LT. Q TAXIWAY Y			
\$15	N	BI¥NK	0	STA. 833+38.22, 50' LT.			
	S	♣ 0 N	2,3	© TAXIWAY K			
S16	E	\$71 O	1,2	STA. 0+88.00, 50' RT.			
	W	O	2	© TAXIWAY O			
S17	z s	K ♠ O	2,3 2	STA. 834+46.14, 50° RT. Ç TAXIWAY K			

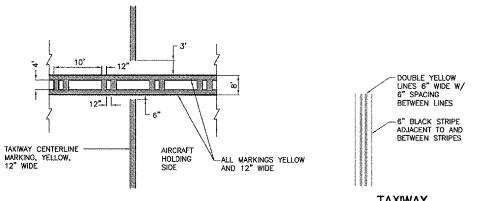
TAXIWAY TANGENT DETAIL NOT TO SCALE

ILS HOLDING POSITION MARKING

NO SCALE

TAXIWAY CENTERLINE ON PCC DETAIL

NOT TO SCALE



TAXIWAY **EDGE MARKINGS**

CONTINUOUS NO SCALE

PAVEMENT MARKING NOTES

- 1. ALL TAXIWAY MARKINGS ARE YELLOW WITH A 6" BLACK BORDER.
- 2. THE PAVEMENT SURFACE SHALL BE CLEAN AND DRY PRIOR TO MARKING.

NEW SIGN TYPE LEGEND

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

PALWAUKEE MUNICIPAL AIRPORT WHEELING/PROSPECT HEIGHTS, ILLINOIS PAVEMENT TAXIWAY L 1+00 TO ST AND LIGHTING CAT CRATCHE DESIGN BY: MJS DRAWN BY: JRO CHECKED BY: AB APPROVED BY: DATE: 06/29/06 JOB No: 06290-07 ILLINOIS PROJECT: PWK-3613 A.I.P. PROJECT: 3-17-0018-839

CHEFT 27 OF AD CHEFTO

REVISIONS

BY

DATE

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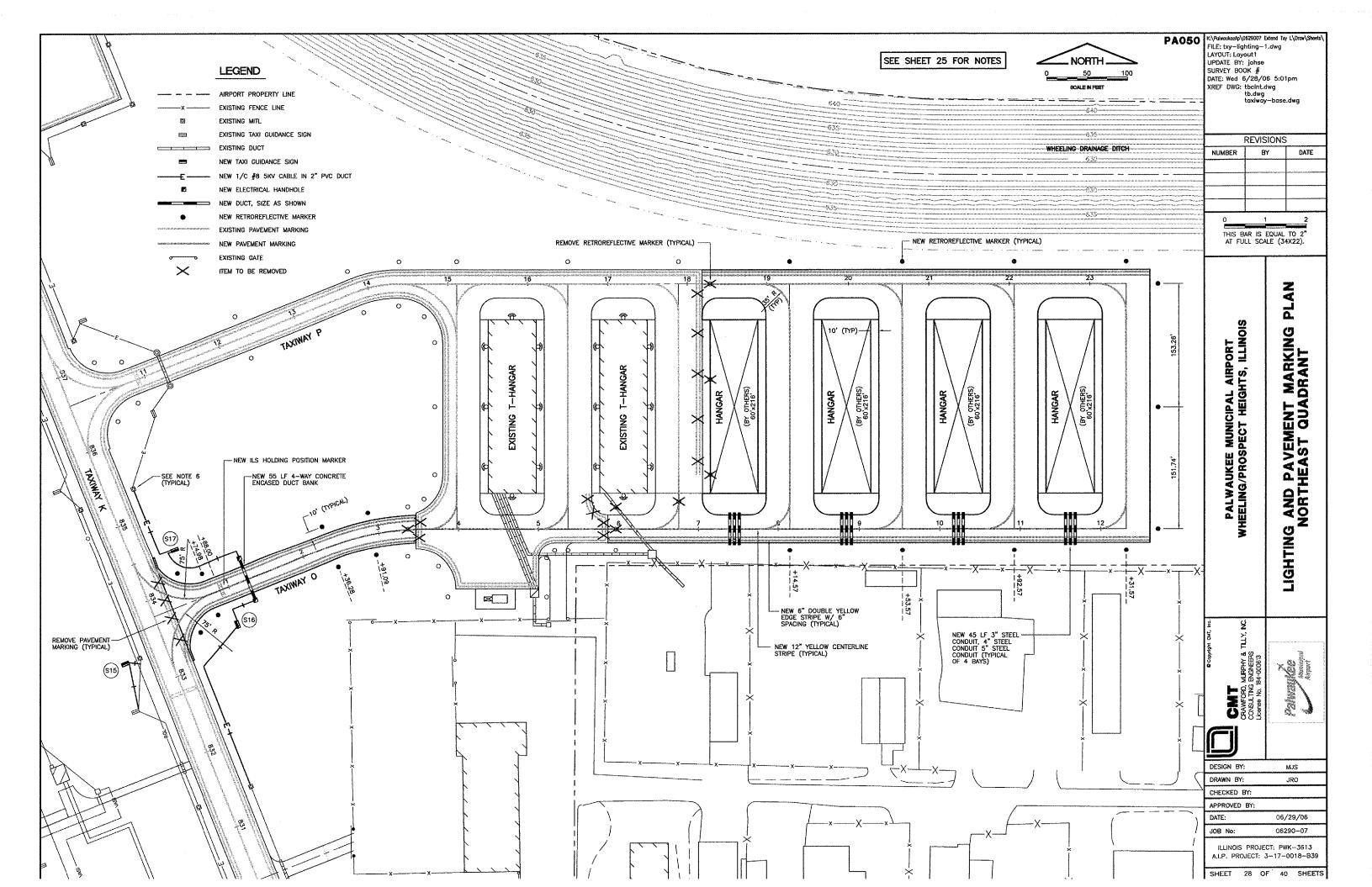
ARKING

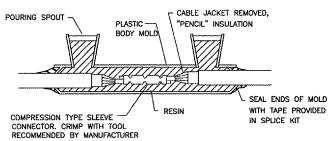
S

418+0

40

ST





TYPE A - CABLE SPLICE

FOR SPLICES IN HOMERUNS AND FOR EXTENSIONS

TO EXISTING CABLES ONLY

N.T.S. SEE NOTE 2

HEAT SHRINKABLE TUBING
WITH INTERNAL ADHESIVE

ADDITIONAL ADHESIVE

COMPOUND FILLER

UNDERGROUND CABLE
SPEC. L-824, TYPICAL

TO EXISTING CABLES ONLY

N.T.S. SEE NOTE 2

WITH INTERNAL ADHESIVE

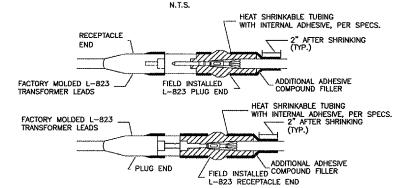
(TYP.)

ADDITIONAL ADHESIVE

COMPOUND FILLER

TYPE B - CABLE SPLICE

FOR SPLICES FOR USE AT JUNCTION OF HOMERUN WITH LOOP CIRCUIT

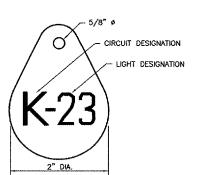


TYPE C AND D - CABLE SPLICE

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

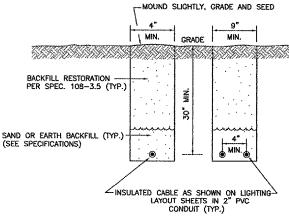
NOTES

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



NOTES

- 1. INSTALL A NONCORROSIVE DISC OF 2"
 MINIMUM DIAMETER WITH THE NUMBER
 PERMANENTLY STAMPED, CUT OUT, OR
 ENGRAVED UNDER THE HEAD OF THE BASE
 PLATE BOLT OR ATTACHED TO LIGHT
 FLANGE WITH A SET SCREW.
- 2. NUMERALS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. ALL EXISTING AND PROPOSED TAXIWAY AND RUNWAY LIGHTS 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.
- 3. COST OF TAGGING LIGHTS SHALL NOT BE PAID FOR SEPERATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

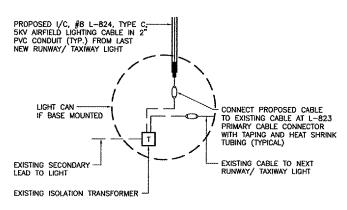


TURF AREA CABLE TRENCH DETAIL

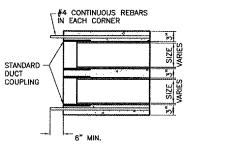
NOT TO SCALE

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.



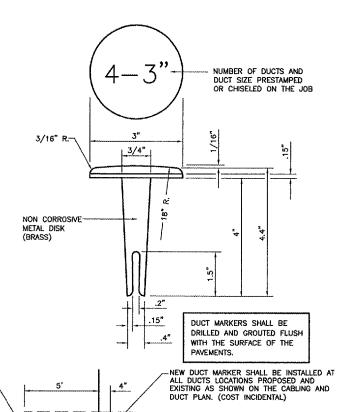
RUNWAY/TAXIWAY LIGHTING CIRCUIT CONNECTION DETAIL NOT TO SCALE



CONCRETE ENCASED DUCT
END DETAIL
NO SCALE

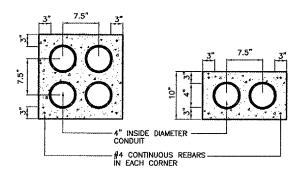
EXTENSION OF EXISTING DUCT

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



DUCT MARKER DETAIL NOT TO SCALE

PROPOSED PAVEMENT



4-WAY

ELECTRICAL

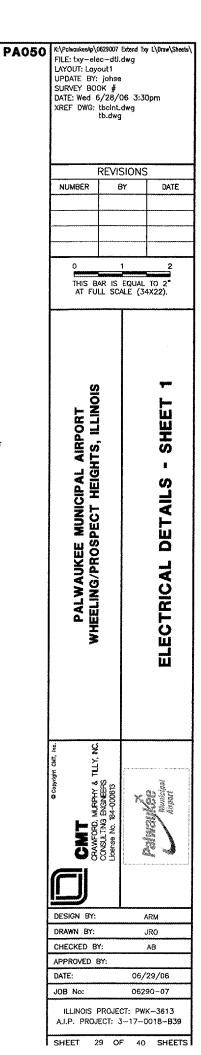
DUCT

CONCRETE ENCASED DUCT BANKS

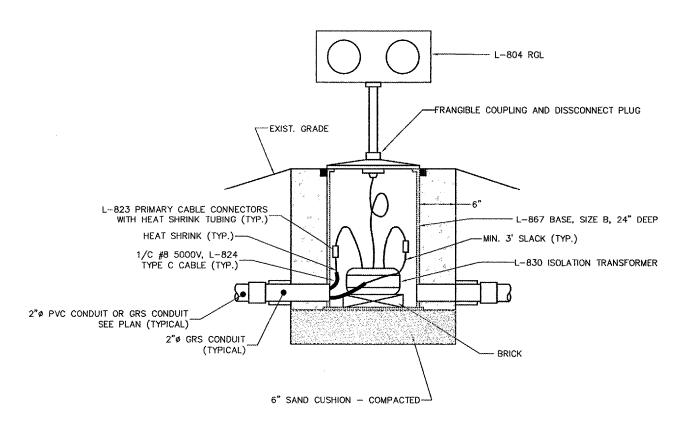
NOT TO SCALE

NOTES:

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

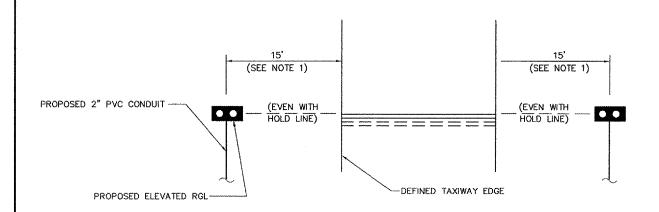


LIGHT IDENTIFICATION DETAIL NOT TO SCALE



INSTALLATION OF ELEVATED RGL (TYPICAL)

NOT TO SCALE



ELEVATED RGL LAYOUT DETAIL (TYPICAL)

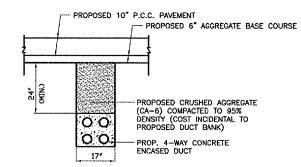
NOT TO SCALE

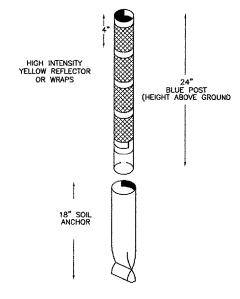
NOTES

 DISTANCE FROM TXY, EDGE MAY BE INCREASED UP TO A MAXIMUM OF 17' AND A MINIMUM OF 12', KEEP BOTH BOXES AT SAME DISTANCE FROM TAXIWAY PAVEMENT.

GENERAL NOTES

- 1. TRANSFORMER HOLDER MAY BE ANY COMMERCIALLY AVAILABLE BRICK.
- 2. BREAKING GROOVE COUPLINGS SHALL NOT BE OVER 1" ABOVE GROUND LINE.
- 3. 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. B, 5000 V., L-824 TYPE C CABLES FOR CONNECTION TO EACH TRANSFORMER.
- 4. TO FURTHER REDUCE THE POSSIBILITY OF WATER/MOISTURE ENTRANCE INTO THE CONNECTOR BETWEEN THE CABLE AND THE FIELD ATTACHED CONNECTOR, IT IS REQUIRED THAT A HEAT SHRINKABLE TUBING WITH INTERNAL ADHESIVE BE APPLIED OVER THE ENTIRE CABLE CONNECTOR.
- 5. ALL LIGHTS, CABLES AND TRANSFORMERS TO BE REMOVED SHALL REMAIN THE THE PROPERTY OF THE AIRPORT. AT THE DISCRETION OF THE AIRPORT MANAGER THE CONTRACTOR MAY BE REQUIRED TO DISPOSE OF THESE MATERIALS OFFSITE.
- DUCT MARKERS SHALL BE INSTALLED AT EVERY NEW DUCT AND AT EVERY EXISTING DUCT USED FOR THIS PROJECT.



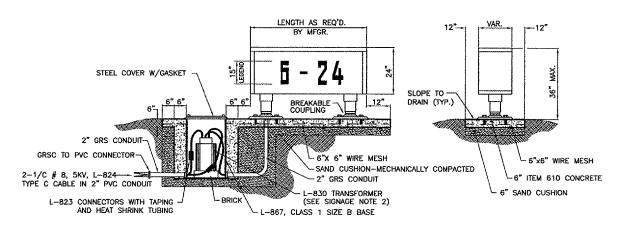


TAXIWAY RETROFLECTIVE

MARKER DETAIL

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

CONC ENCASED (4-WAY) ELECTRICAL DUCT BACKFILL NO SCALE



PROPOSED AIRFIELD SIGN L-858

NOT TO SCALE

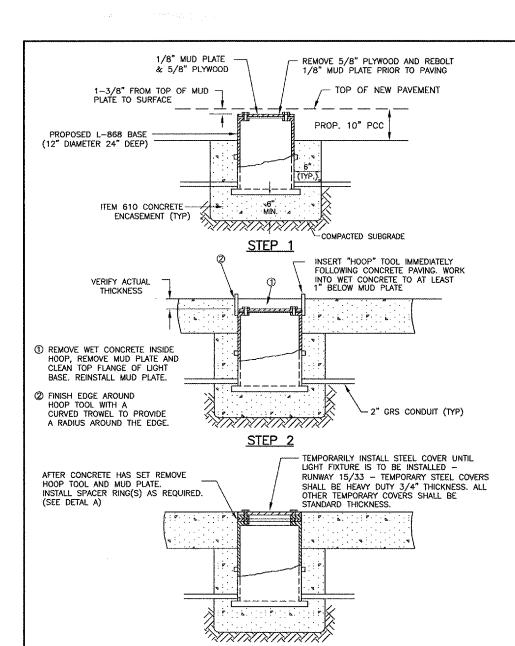
SIGNAGE NOTES

- 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 DETERMINE PROPOSED SPACING AND OTHER INFORMATION REQUIRED BY SPECIAL PROVISIONS. CONTRACTOR TO VERIFY PROPOSED SIGN LOCATIONS AND ORIENTATIONS WITH RESIDENT ENGINEER PRIOR TO INSTALLATION.

PAO50 K:\PolwoukeeAp\0529007 Extend Txy L\Draw\Shee FILE: txy-elec-dti.dwg LAYOUT: Layout1 UPDATE BY: johse SURVEY BOOK # DATE: Wed 6/28/06 3:30pm XREF DWG: tbcint.dwg REVISIONS NUMBER BY DATE THIS BAR IS EQUAL TO 2' AT FULL SCALE (34X22). 2 AIRPORT ITS, ILLING SIPAL AIRP HEIGHTS, S S PALWAUKEE MUNICIPA HEELING/PROSPECT HE ш ECTRIC CM DESIGN BY: DRAWN BY JRO CHECKED BY ΑB APPROVED BY: DATE: 06/29/06

06290-07

ILLINOIS PROJECT: PWK-3613
A.I.P. PROJECT: 3-17-0018-B39
SHEFT 30 OF 40 SHEFTS

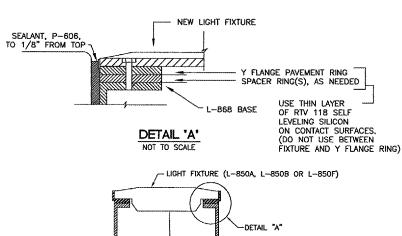


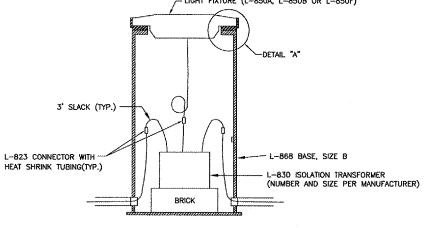
STEP 3 IN-PAVEMENT RUNWAY EDGE LIGHT INSTALLATION IN PROPOSED PCC PAVEMENT

NOT TO SCALE

PCC PAVEMENT NOTES

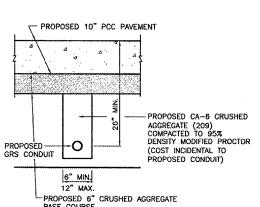
- EXCAVATE TO PROPER DEPTH TO ALLOW 6" CONCRETE ENCASEMENT UNDER NEW BASES AND 6" UNDER NEW CONDUIT. CLEAN CUT EDGES AND COMPACT BOTTOM OF EXCAVATION.
- USE MANUFACTURERS SETTING JIG (OR OTHER DEVICE APPROVED BY THE ENGINEER FOR PROPERLY ALIGNINIG NEW L-868 BASES. SECURE SETTING JIG TO PREVENT MOVEMENT DURING CONCRETE ENCASEMENT. ALL CONDUITS TO BE SUPPORTED DURING CONSTRUCTION AS REQUIRED.
- 3. ALL LIGHT BASES SHALL BE PROPERLY POSITIONED AND ALIGNED AND CONDUIT CONNECTING THE BASES PROPOERLY SECURED IN PLACE BEFORE POURING CONCRETE. ENSURE PROPER ALIGNMENT AFTER CONCRETE ENCASEMENT OF NEW BASE BEFORE CONCRETE SETS UP. TIGHT CONNECTIONS MUST BE ASSURED TO PREVENT CONCRETE FROM ENTERING BASE OR CONDUIT.
- 4. AFTER INSTALLATION OF THE L-868 BASE AND WHILE PCC PAVING AT THE FIXTURE LOCATION IS WET, INSERT "HOOP" TOOL TO AT LEAST 1" BELOW MUD PLATE. REMOVE WET CONCRETE FROM INSIDE HOOP AND CLEAN TOP FLANCE SURFACE. FINISH THE CONCRETE AROUND THE HOOP TOOL WITH A CURVED RADIUS TROWEL. USE CAUTION TO AVOID AGGREGATE SEGREGATION DURING THIS PROCEDURE.
- AFTER CONCRETE HAS SET, REMOVE HOOP TOOL AND MUD PLATE. INSTALL FLANGE AND SPACER RINGS AS REQUIRED AND LIGHT ASSEMBLY. A TEMPORARY STEEL COVER MAY BE INSTALLED IF LIGHT FIXTURE IS TO BE INSTALLED LATER.
- AFTER FIXTURE INSTALLATION, FILL THE ANNULAR SPACE BETWEEN THE FIXTURE BASE AND SURROUNDING PAVEMENT WITH P-606 SEALANT. ANNULAR SPACE SHALL BE NO MORE THAN 3/4" WIDE.
- 7. INSTALL BASE AND RINGS SO THAT OUTER EDGE OF LIGHT FIXTURE WILL BE AT SAME ELVATION AS THE FINISHED PAVEMENT SURFACE TO (+) 0" (-) 1/16" TOLERANCE, THE TOTAL THICKNESS OF THE SPACER/FLANGE RINGS SHALL BE NO LARGER THAN 3/4" MAX. NO MORE THAN 3 RINGS SHALL BE USED.





LIGHT FIXTURE INSTALLATION DETAIL

NOT TO SCALE

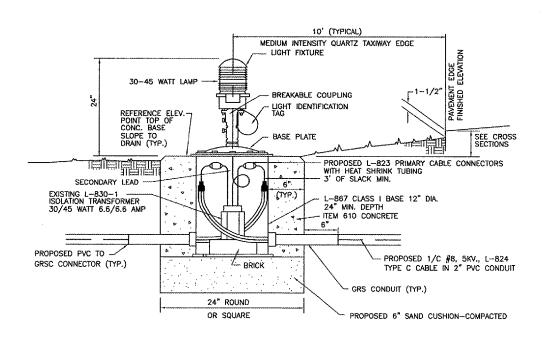


GRS CONDUIT UNDER P.C.C. PAVEMENT DETAIL

NOT TO SCALE

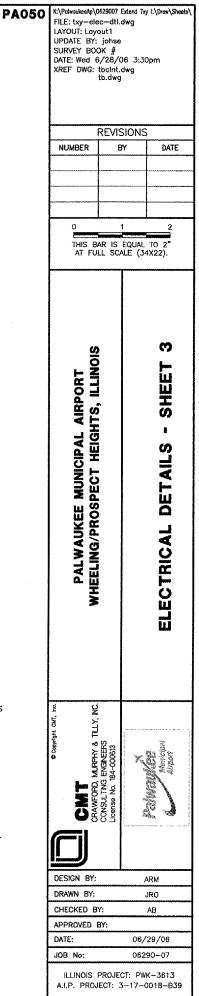
NOTES

 PROPOSED CONDUIT SHALL BE INSTALLED AT AN ELEVATION THAT WILL NOT CONFLICT WITH EXISTING OR PROPOSED UTILITIES INCLUDING STORM SEWER, UNDERBORAIN, CONDUIT, DUCT, GAS, WATERMAIN, PHONE, ELECTRICAL AT NO ADDITIONAL COST TO THE CONTRACT.



PROPOSED BASE MOUNTED MEDIUM INTESITY TAXIWAY LIGHT

NOT TO SCALE



CHEET 31 OF 40 CHEETS

