

WA055
TOTAL SHEETS = 53

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18	HANGAR PAVEMENT CROSS SECTIONS STA. 10+00.00
19	HANGAR PAVEMENT CROSS SECTIONS STA. 10+14.95
20	HANGAR PAVEMENT CROSS SECTIONS STA. 10+84.10
21	HANGAR PAVEMENT CROSS SECTIONS STA. 10+86.10
22	HANGAR PAVEMENT CROSS SECTIONS STA. 11+01.22
23	HANGAR PAVEMENT CROSS SECTIONS STA. 11+16.10
24	HANGAR PAVEMENT CROSS SECTIONS STA. 11+70.02
25	HANGAR PAVEMENT CROSS SECTIONS STA. 11+83.60
26	HANGAR PAVEMENT CROSS SECTIONS STA. 12+09.99
27	HANGAR PAVEMENT CROSS SECTIONS STA. 12+61.22
28	HANGAR PAVEMENT CROSS SECTIONS STA. 12+77.74
29	HANGAR PAVEMENT CROSS SECTIONS STA. 13+08.82
30	HANGAR PAVEMENT CROSS SECTIONS STA. 13+18.00
31	HANGAR PAVEMENT CROSS SECTIONS STA. 13+85.46
32	HANGAR PAVEMENT CROSS SECTIONS STA. 14+53.60
33	HANGAR PAVEMENT CROSS SECTIONS STA. 15+21.10
34	HANGAR PAVEMENT CROSS SECTIONS STA. 15+40.53
35	HANGAR PAVEMENT CROSS SECTIONS STA. 15+69.60
36	HANGAR PAVEMENT CROSS SECTIONS STA. 15+87.29
37	HANGAR PAVEMENT CROSS SECTIONS STA. 16+04.59
38	FUTURE PARKING AREA CROSS SECTIONS STA. 70+50.00
39	FUTURE PARKING AREA CROSS SECTIONS STA. 70+75.00
40	FUTURE PARKING AREA CROSS SECTIONS STA. 71+00.00
41	FUTURE PARKING AREA CROSS SECTIONS STA. 71+25.00
42	FUTURE PARKING AREA CROSS SECTIONS STA. 71+50.00 TO 71+75.00
43	FUTURE PARKING AREA CROSS SECTIONS STA. 72+00.00 TO 72+25.00
44	FUTURE PARKING AREA CROSS SECTIONS STA. 72+37.70 TO 72+57.70
45	PAVEMENT MARKING AND SIGNING PLAN AND DETAILS
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NOTICE TO CONTRACTORS AND BIDDERS

THESE CONSTRUCTION PLANS RELY UPON THE SPECIAL PROVISIONS AND THE SPECIFICATIONS TO PROVIDE FOR A COMPLETE DESCRIPTION OF THE WORK AND CONSTRUCTION REQUIREMENTS. THE PLANS SHALL ONLY BE USED IN COMBINATION WITH ALL CONTRACT DOCUMENTS.

**IDOT LETTING:
MARCH 10, 2006 ITEM 15A**

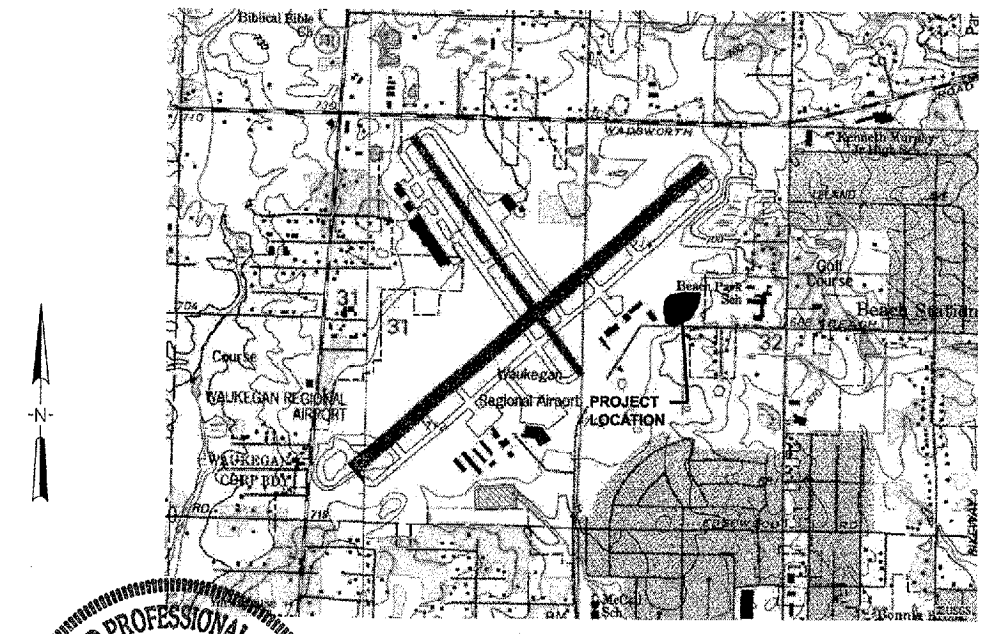
CONSTRUCTION PLANS

**CONSTRUCT NEW T-HANGAR APRONS,
TAXIWAYS AND AUTO ACCESS**

**WAUKEGAN REGIONAL AIRPORT
WAUKEGAN PORT DISTRICT
WAUKEGAN, LAKE COUNTY, ILLINOIS**

IDA PROJECT NO. UGN-3499

VICINITY MAP



SHEET NO. 1 OF 53



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Seal
LICENSED PROFESSIONAL ENGINEER
 AMBER A. PETKEVICIUS
 062-058776
 State of Illinois
 Expires 11/2007
 January 27, 2006

No.	Drawing Issue Description	Sheets Changed	Date	By

SUMMARY OF QUANTITIES



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Waukegan Regional Port District

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Waukegan, Illinois 60087
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Fax: 847.244.3813

WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR APRONS, TAXIWAYS AND AUTO ACCESS

IDA PROJECT NO. UGN-3499

Pay Item Information			Quantity					
Item No.	Description	Unit	State/Local		Local Only		Total	
			As Bid	Record Paid	As Bid	Record Paid	As Bid	Record Paid
AR110504	4-Way Concrete Encased Duct	Linear Foot	127.00		0.00		127.00	
AR125941	Adjust Stake Mounted Light	Each	4.00		0.00		4.00	
AR125961	Relocate Stake Mounted Light	Each	1.00		0.00		1.00	
AR150510	Engineer's Field Office	Lump Sum	1.00		0.00		1.00	
AR151450	Clearing and Grubbing	Acre	0.12		0.00		0.12	
AR152410	Unclassified Excavation	Cubic Yard	5,370.00		0.00		5,370.00	
AR156510	Silt Fence	Linear Foot	689.00		0.00		689.00	
AR156513	Separation Fabric	Square Yard	4,270.00		575.00		4,845.00	
AR162506	Class E Fence-6'	Linear Foot	365.00		0.00		365.00	
AR162605	Class E Gate-5'	Each	1.00		0.00		1.00	
AR162728	Electric Gate-28'	Each	1.00		0.00		1.00	
AR201610	Bituminous Base Course	Ton	496.00		68.00		564.00	
AR209610	Crushed Agg. Base Course - 10"	Square Yard	4,270.00		575.00		4,845.00	
AR401610	Bituminous Surface Course	Ton	517.00		68.00		585.00	
AR401650	Bituminous Pavement Milling	Square Yard	168.00		0.00		168.00	
AR401660	Saw & Seal Bit. Joints	Linear Foot	774.00		0.00		774.00	
AR401665	Bituminous Pavement Sawing	Linear Foot	517.00		0.00		517.00	
AR401916	Remove and Replace Bituminous Pavement-Type B	Square Yard	345.00		0.00		345.00	
AR501665	PCC Pavement Sawing	Linear Foot	80.00		0.00		80.00	
AR501910	Remove & Replace PCC Pavement-6"	Square Yard	65.00		0.00		65.00	
AR602510	Bituminous Prime Coat	Gallon	1,230.00		173.00		1,403.00	
AR603510	Bituminous Tack Coat	Gallon	645.00		86.00		731.00	
AR620520	Pavement Marking-Waterborne	Square Foot	1,227.00		0.00		1,227.00	
AR701008	8" PVC Storm Sewer	Linear Foot	139.00		0.00		139.00	
AR701512	12" RCP, Class IV	Linear Foot	239.00		0.00		239.00	
AR701515	15" RCP, Class IV	Linear Foot	237.00		0.00		237.00	
AR701518	18" RCP, Class IV	Linear Foot	145.00		0.00		145.00	
AR701524	24" RCP, Class IV	Linear Foot	950.00		0.00		950.00	
AR701900	Remove Pipe	Linear Foot	41.00		0.00		41.00	
AR705412	Porous Backfill No. 2	Cubic Yard	120.00		0.00		120.00	
AR705504	4" Perforated Underdrain	Linear Foot	1,217.00		0.00		1,217.00	
AR705544	4" Non Perforated Underdrain	Linear Foot	48.00		0.00		48.00	
AR705630	Underdrain Inspection Hole	Each	4.00		0.00		4.00	
AR705640	Underdrain Cleanout	Each	7.00		0.00		7.00	
AR751410	Inlet	Each	3.00		0.00		3.00	
AR751540	Manhole 4'	Each	8.00		0.00		8.00	
AR751550	Manhole 5'	Each	1.00		0.00		1.00	
AR751560	Manhole 6'	Each	1.00		0.00		1.00	
AR751943	Adjust Manhole	Each	1.00		0.00		1.00	
AR800934	Remove and Reinstall Fence	Linear Foot	25.00		0.00		25.00	
AR800915	Airfield Cable in Unit Duct	Linear Foot	322.00		0.00		322.00	
AR800927	Granular Drainage Subbase - 4"	Square Yard	4,270.00		575.00		4,845.00	
AR800937	Conservation Cover	Acre	1.20		0.00		1.20	
AR901510	Seeding	Acre	2.10		0.00		2.10	
AR905510	Topsoiling (From On Site)	Cubic Yard	365.00		0.00		365.00	
AR905520	Topsoiling (From Off Site)	Cubic Yard	795.00		0.00		795.00	
AR908510	Mulching	Acre	2.10		0.00		2.10	
AR910200	Roadway Sign	Each	2.00		0.00		2.00	

No.	Drawing Issue Description	Date	By

Date _____
 JANUARY 27, 2006
 Sheet Title _____

SUMMARY OF QUANTITIES

831-04TXVD
 Project Number _____
 AAP 11/15/05
 Layout By Date _____
 AAP 11/15/05
 Designed By Date _____
 KLK/RMH 01/23/06
 Reviewed By Date _____
 KLK | AAP | -
 Drawn By _____ Sheet No. _____

AAP
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P:\04\08080831831047XYD_REV\Clk\Sheet\02 Combined Summary of Quantities.dgn



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Waukegan Regional Port District

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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
AUTO ACCESS

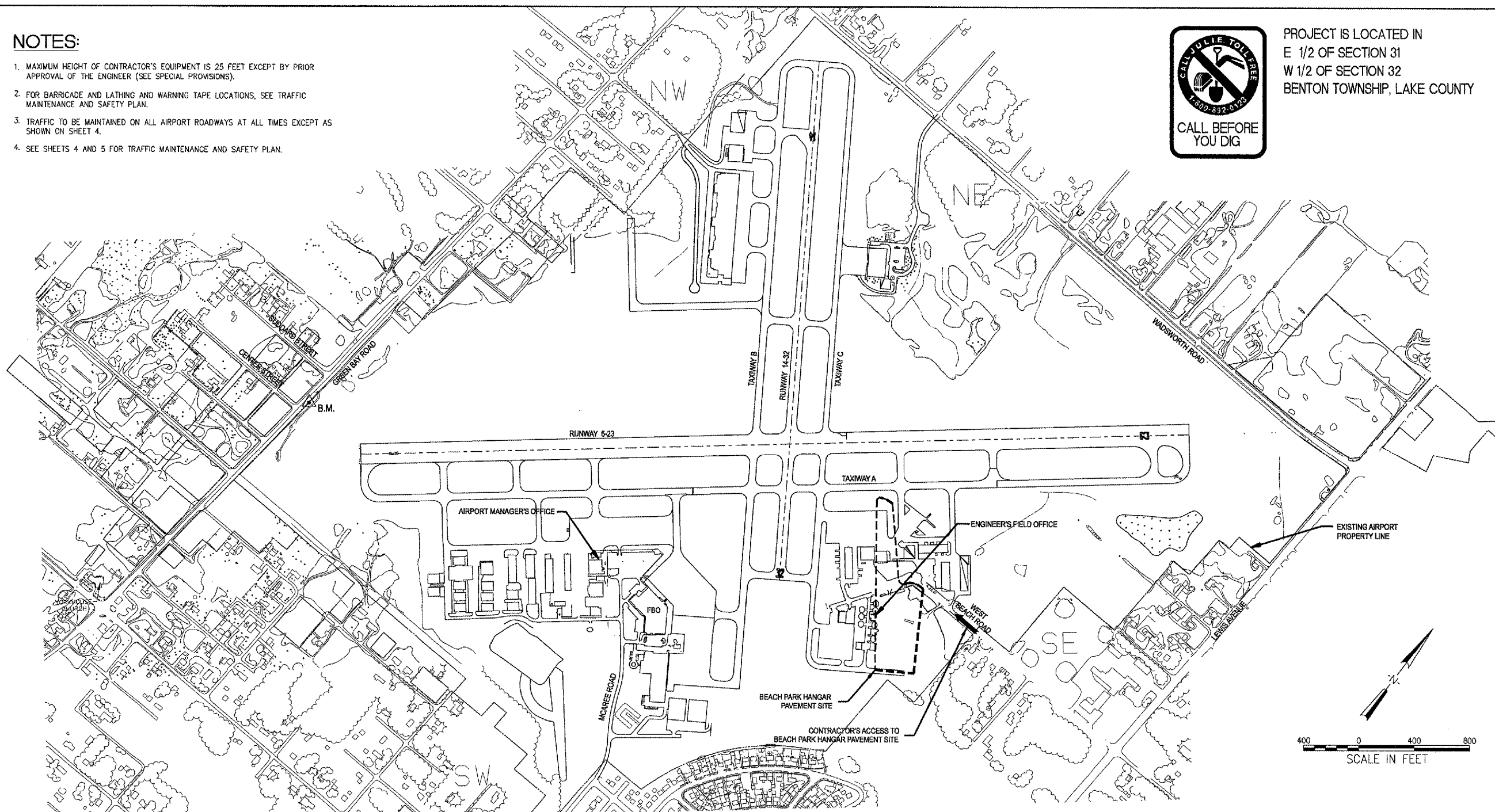
IDA PROJECT NO. UGN-3499



PROJECT IS LOCATED IN
E 1/2 OF SECTION 31
W 1/2 OF SECTION 32
BENTON TOWNSHIP, LAKE COUNTY

NOTES:

1. MAXIMUM HEIGHT OF CONTRACTOR'S EQUIPMENT IS 25 FEET EXCEPT BY PRIOR APPROVAL OF THE ENGINEER (SEE SPECIAL PROVISIONS).
2. FOR BARRICADE AND LATHING AND WARNING TAPE LOCATIONS, SEE TRAFFIC MAINTENANCE AND SAFETY PLAN.
3. TRAFFIC TO BE MAINTAINED ON ALL AIRPORT ROADWAYS AT ALL TIMES EXCEPT AS SHOWN ON SHEET 4.
4. SEE SHEETS 4 AND 5 FOR TRAFFIC MAINTENANCE AND SAFETY PLAN.



GENERAL NOTES

PROJECT DESCRIPTION

THIS PROJECT IS TO CONSTRUCT NEW HANGAR PAVEMENTS AT WAUKEGAN REGIONAL AIRPORT, INCLUDING AMONG OTHER INCIDENTAL WORK, CONSTRUCTION OF PAVEMENTS SERVING A NEW MULTI-UNIT "T" HANGAR BUILDING. GRADING, DRAINAGE IMPROVEMENTS, PAVING, FENCING, PAVEMENT MARKINGS AND A PARKING AREA FOR HANGAR AREA USERS ARE TO BE INCLUDED.

PROTECTION OF EXISTING AIRPORT FACILITIES

THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND LIGHTING EQUIPMENT; DRIVEWAY AND ROAD PAVEMENT AND SHOULDERS; RUNWAY, TAXIWAY AND APRON PAVEMENTS AND SHOULDERS; RUNWAY, TAXIWAY AND AIRPORT LIGHTING EQUIPMENT; AND SEEDED AND TURFED AREAS THAT ARE UTILIZED IN OR AFFECTED BY THE CONTRACTOR'S ACTIVITIES. ITEMS DAMAGED BY THE CONTRACTOR ARE TO BE REPAIRED AT CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE AIRPORT OWNER AND THE RESIDENT ENGINEER.

IN ADDITION WHEN CONDITIONS DICTATE OR AS DETERMINED BY THE AIRPORT OWNER OR THE RESIDENT ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO USE A PICK-UP TYPE SWEEPER IN ALL ACTIVE CONSTRUCTION AIRFIELD PAVEMENT AREAS AND ROADS USED AS HAUL ROUTES. THE CONTRACTOR WILL BE REQUIRED TO HAVE A SWEEPER AVAILABLE FOR USE AT ALL TIMES. THE COST OF SWEEPING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

CONTRACTOR'S ACCESS AND TEMPORARY FACILITIES

CONTRACTOR'S ACCESS TO THE PROJECT WHEN ON AIRPORT PROPERTY IS SHOWN ON THE TRAFFIC MAINTENANCE AND SAFETY PLAN. CONTRACTOR'S ACCESS TO THE AIRPORT ITSELF IS TO BE PROVIDED BY PUBLIC RIGHTS-OF-WAY. THE CONTRACTOR IS TO SECURE ALL NECESSARY PERMITS FOR THE USE OF ANY PUBLIC RIGHTS-OF-WAY AND IS TO MAINTAIN TRAFFIC ON THESE PUBLIC ROADS AT ALL TIMES, WITH THE COSTS OF PERMITTING, CLEANING AND REPAIRING OF PAVEMENT DAMAGED BY CONTRACTOR'S ACTIVITIES INCIDENTAL TO THE CONTRACT. USE OF AND REPAIRS TO ANY PUBLIC FACILITIES ARE TO BE COMPLETED TO THE SATISFACTION OF THE FACILITY'S OWNER.

THE CONTRACTOR IS TO PROVIDE TEMPORARY CONSTRUCTION ROADS WITHIN THE CONSTRUCTION LIMIT LINES AS MAY BE REQUIRED BY HIS ACTIVITIES AT HIS OWN EXPENSE AND DISCRETION, SUBJECT TO THE APPROVAL OF THE RESIDENT ENGINEER. HEAVY VEHICLES SHALL NOT CROSS EXISTING OR NEW PAVEMENT SURFACES EXCEPT AS APPROVED BY THE AIRPORT OWNER AND THE RESIDENT ENGINEER. ANY DAMAGE TO PAVEMENTS THAT MAY OCCUR BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE AIRPORT OWNER AND THE RESIDENT ENGINEER.

THE CONTRACTOR IS TO PROVIDE CONTRACTOR'S EQUIPMENT STORAGE AND PARKING AREAS AT THE LOCATIONS SHOWN ON THE TRAFFIC MAINTENANCE AND SAFETY PLAN. THE CONTRACTOR WILL BE UTILIZING AN EXISTING GATED ENTRANCE ON THE AIRPORT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE CONSTRUCTION ENTRANCE AND ACCESS, ROADS AND THE STORAGE AREA DURING CONSTRUCTION AND TO RESTORE THE AREAS AT PROJECT COMPLETION TO CONDITIONS SUITABLE TO THE AIRPORT OWNER AND THE RESIDENT ENGINEER. AT THE AIRPORT OWNER'S DISCRETION, THE TEMPORARY FACILITIES MAY REMAIN, BUT THEY MUST BE LEFT IN CONDITIONS SUITABLE TO THE AIRPORT OWNER. THE COST OF PROVIDING, MAINTAINING AND RESTORING THE TEMPORARY FACILITIES IS INCIDENTAL TO THE CONTRACT.

RESPONSIBILITY FOR EXISTING UTILITIES

THE LOCATION, SIZE AND/OR TYPE OF MATERIAL OF EXISTING UNDERGROUND OR OVERHEAD UTILITIES AS MAY BE INDICATED ON THESE CONSTRUCTION PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE PROJECT ENGINEER HAVE INDEPENDENTLY VERIFIED THIS INFORMATION AND NEITHER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, SUFFICIENCY OR COMPLETENESS OF THE INFORMATION AND GIVE NO EXPRESSED OR IMPLIED GUARANTEE THAT ANY CONDITIONS INDICATED ARE REPRESENTATIVE OF ACTUAL CONDITIONS TO BE ENCOUNTERED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND AGENCIES OF HIS CONSTRUCTION PLANS AND SHALL OBTAIN FROM EACH PARTY DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF ALL UTILITIES AND THE WORKING SCHEDULE OF ANY REMOVALS OR ADJUSTMENTS REQUIRED OF THE UTILITY. THE CONTRACTOR SHALL CONTACT JULLIE (PHONE: 800-892-0123) TO ASSIST IN THE ABOVE.

THE CONTRACTOR SHALL PROTECT ANY FACILITIES TO THE SATISFACTION OF THE UTILITY OR OWNING-AGENCY WITH THE COST OF ANY REQUIRED PROTECTION TO BE INCIDENTAL TO THE CONTRACT. IN THE EVENT A UTILITY LINE OR SERVICE IS UNEXPECTEDLY ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RESIDENT ENGINEER AND THE UTILITY COMPANY OR AGENCY OF JURISDICTION. ANY SUCH UTILITIES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO SERVICE AT ONCE.

EXISTING BENCHMARK

BENCHMARK IS AS FOLLOWS:

ELEVATION 721.34
STEEL ROD SET IN 6" LOGD CAP
LOCATION: 36.5' EAST OF RT. 131 (GREEN BAY RD.), 230' SOUTH OF
SUDDARD ST., 101' NORTH OF CENTER ST.
COORDINATES: N 2094502.438 E 1107324.042

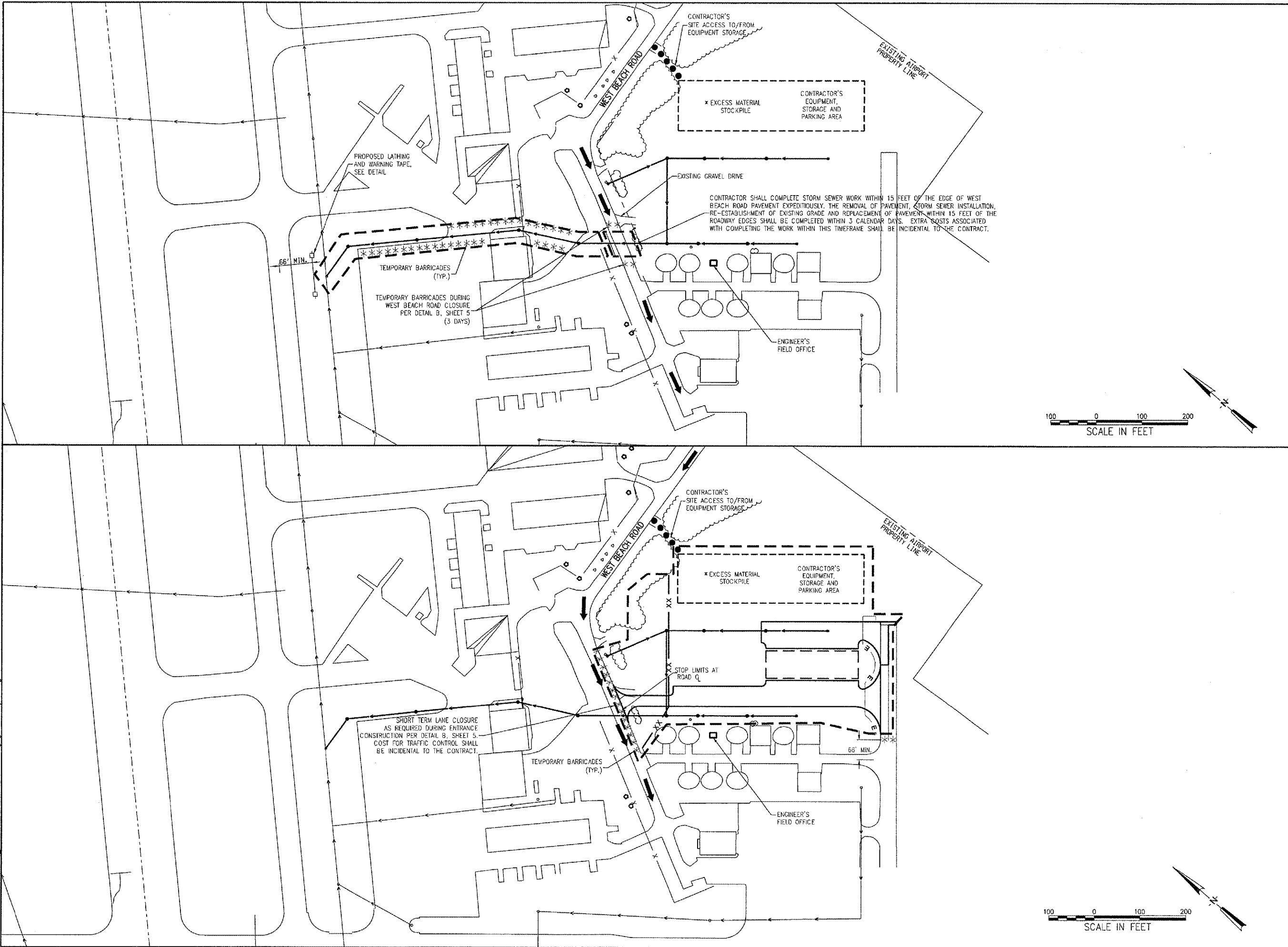
No.	Drawing Issue Description	Date	By

Date: JANUARY 27, 2006
Sheet Title: _____

SITE PLAN AND GENERAL NOTES

831-04TXD	
Project Number	
AAP	11/16/05
Layout By	
AAP	11/15/05
Designed By	
KLK/RMH	01/23/06
Reviewed By	
KLK	AAP
Drawn By	

01/24/2006 07:30 AM
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WA055



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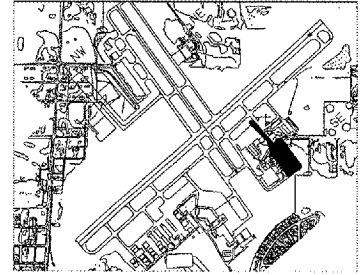


3580 North McAree Road
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 Phone: 847.244.0055
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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR APRONS, TAXIWAYS AND AUTO ACCESS

IDA PROJECT NO. UGN-3499



KEY MAP

No.	Drawing Issue Description	Date	By

Date
 JANUARY 27, 2006
 Sheet Title

TRAFFIC MAINTENANCE AND SAFETY PLAN

831-04TXVD	Project Number
AAP	11/15/05
AAP	11/15/05
KLK/RMH	01/23/06
KLK	AAP

01/24/2006, 07:50 AM
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 AAP



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WAUKEGAN REGIONAL AIRPORT

**CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
AUTO ACCESS**

IDA PROJECT NO. UGN-3499

CONSTRUCTION AND SAFETY NOTES

SEQUENCE OF CONSTRUCTION

TO MINIMIZE DISRUPTIONS TO AIRPORT OPERATIONS, CONSTRUCTION OPERATIONS MUST BE CONTROLLED THROUGHOUT THE PROJECT'S DURATION AND WORK MUST BE COMPLETED EXPEDITIOUSLY. THE CONTRACTOR IS TO EITHER FOLLOW THE TRAFFIC MAINTENANCE AND SAFETY PLAN PROVIDED OR PREPARE AND FOLLOW AN ALTERNATIVE TRAFFIC MAINTENANCE THAT MEETS PLAN REQUIREMENTS. THE ALTERNATE TRAFFIC MAINTENANCE MUST BE SATISFACTORY TO THE PROJECT ENGINEER AND THE AIRPORT OWNER. THE CONTRACTOR SHALL EXPEDITE WORK WHEN ACTIVE RUNWAYS, TAXIWAYS, APRONS, ROADWAYS OR PARKING LOTS MUST BE CLOSED OR REDUCED IN SIZE TO MINIMIZE THE LENGTH OF TIME THAT AIRPORT OPERATIONS ARE RESTRICTED.

LATHING AND WARNING TAPE

THE PROJECT WILL REQUIRE THE PLACEMENT OF LATHING AND WARNING TAPE TO DELINEATE THE CONSTRUCTION AREA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE, PLACE AND MAINTAIN LATHING AND WARNING TAPE AS SHOWN ON THE TRAFFIC MAINTENANCE AND SAFETY PLAN, AND DETAIL A, THIS SHEET, AND AS DIRECTED BY THE RESIDENT ENGINEER AND THE AIRPORT OWNER. THE CONTRACTOR WILL FURNISH, PLACE, MAINTAIN AND RELOCATE THE LATHING AND WARNING TAPE AS REQUIRED. THE COST OF THESE ITEMS, AND THEIR MAINTENANCE, IS TO BE INCIDENTAL TO THE CONTRACT.

TEMPORARY BARRICADES ON AIRFIELD AND WEST BEACH ROAD

THE PROJECT MAY ALSO REQUIRE THE OCCASIONAL, TEMPORARY CLOSING OF SEGMENTS OF ACTIVE TAXIWAYS, APRONS, AND A PORTION OF WEST BEACH ROAD. PAVEMENT BARRICADES WILL BE REQUIRED FOR ALL ROADWAY, TAXIWAY, AND APRON CLOSURES. TO MINIMIZE DISRUPTION TO VEHICULAR AND AIRCRAFT OPERATIONS ASSOCIATED WITH THESE REQUIREMENTS, CONSTRUCTION WORK MUST BE COMPLETED EXPEDITIOUSLY.

OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIAL AT THE CONSTRUCTION SITE SHALL ALSO BE DELINEATED WITH THE USE OF BARRICADES DURING HOURS OF RESTRICTED VISIBILITY AND/OR DARKNESS.

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH, PLACE AND MAINTAIN BARRICADES AS SHOWN IN THE TRAFFIC MAINTENANCE AND SAFETY PLAN, AND DETAIL B, THIS SHEET, AND AS DIRECTED BY THE RESIDENT ENGINEER AND AIRPORT OWNER. THE COST OF THESE ITEMS, AND THEIR MAINTENANCE, IS TO BE INCIDENTAL TO THE CONTRACT.

AIRFIELD OPERATIONAL SAFETY DURING CONSTRUCTION

ALL CONSTRUCTION TRAFFIC AND PERSONNEL SHALL REMAIN WITHIN THE CONSTRUCTION LIMIT LINE SHOWN ON THE TRAFFIC MAINTENANCE AND SAFETY PLAN. CONTRACTOR'S PERSONNEL AND EQUIPMENT MUST REMAIN AT LEAST 200 FEET FROM THE CENTERLINE OF ACTIVE RUNWAYS, 57.5 FEET FROM THE CENTERLINE OF ACTIVE TAXILANES, 65.5 FEET FROM THE CENTERLINE OF ACTIVE TAXIWAYS, AND 10 FEET FROM THE EDGE OF ACTIVE APRONS. CONTRACTOR'S ACTIVITIES IF REQUIRED AT RUNWAY ENDS MAY NOT PENETRATE THE RUNWAY OBJECT FREE AREA OR THE PART 77 SURFACES.

WHEN IT IS NECESSARY FOR CONSTRUCTION VEHICLES TO OPERATE ON OR WITHIN THESE LIMITS, THE RUNWAY, TAXIWAYS, TAXILANE OR APRON MUST BE CLOSED. THE CONTRACTOR WILL PROVIDE POSITIVE CONTROL OF CONSTRUCTION VEHICLES USING RADIO-EQUIPPED FLAGGERS. ALL CONTRACTOR'S EQUIPMENT USED IN ACTIVE AIRPORT OPERATIONS AREAS (AOA) SHALL BE EQUIPPED WITH A FAA-STANDARD FLAG, AS REFERENCED IN FAA AC 150/5370-2, CURRENT ISSUE. ALL WORK WITHIN THE AOA SHALL BE COORDINATED WITH THE AIRPORT MANAGER AND CONTROL TOWER. AIRCRAFT SHALL HAVE THE RIGHT-OF-WAY. CONSTRUCTION VEHICLES SHALL NOT CROSS AN ACTIVE RUNWAY. THE COST OF ALL TRAFFIC CONTROL, BOTH WITHIN AND OUTSIDE OF AIRPORT OPERATIONS AREAS, IS TO BE INCIDENTAL TO THE CONTRACT.

WHEN NOT IN USE AND DURING NONWORKING HOURS, CONTRACTOR'S EQUIPMENT SHALL BE PARKED WITHIN THE CONTRACTOR'S EQUIPMENT STORAGE AND PARKING AREAS. THE EQUIPMENT STORAGE AND PARKING AREAS ARE TO BE LOCATED AS SHOWN ON THE TRAFFIC MAINTENANCE AND SAFETY PLAN. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THE CONSTRUCTION ENTRANCE IN GOOD CONDITION. THE COST OF MAINTAINING THE CONSTRUCTION ENTRANCE IS TO BE INCIDENTAL TO THE CONTRACT.

AT NO TIME SHALL THE CONTRACTOR OPERATE OR PARK EQUIPMENT SO AS TO OBSTRUCT AN ACTIVE RUNWAY APPROACH SURFACE.

BEFORE REOPENING TEMPORARILY CLOSED TAXIWAYS OR ROADWAYS, THE CONTRACTOR SHALL INSPECT AND CLEAN, AS NECESSARY, THE PAVEMENT TO ASSURE THAT NO MATERIALS OR OBJECTS THAT MAY DAMAGE AIRCRAFT OR VEHICLES REMAIN. ANY REQUIRED CLEANING SHALL BE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT OWNER AND IS INCIDENTAL TO THE CONTRACT.

VEHICLE SAFETY

TRAFFIC CONTROL WILL BE REQUIRED WHEN CONTRACTOR ACTIVITIES ARE WITHIN 15 FEET OF AN ACTIVE AIRPORT ROADWAY OR AUTO PARKING AREA. THE TRAFFIC CONTROL SHALL BE AS SHOWN ON THE PLANS AND SPECIFIED IN THE SPECIAL PROVISIONS. COST OF ALL VEHICLE TRAFFIC CONTROL SHALL BE INCIDENTAL TO THE CONTRACT.

NOTIFICATIONS BY CONTRACTOR

THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT OWNER 7 DAYS IN ADVANCE OF THE CONTRACTOR'S CLOSING OF ACTIVE ROADWAYS, TAXIWAYS AND APRONS. THE DATE, TIME AND SCHEDULED DURATION OF THE CLOSING MUST BE APPROVED BY THE RESIDENT ENGINEER, THE AIRPORT OWNER AND THE CONTROL TOWER. THE CONTROL TOWER MUST BE NOTIFIED AS WELL FOR ANY CLOSINGS THAT AFFECT THE CONTROLLED PORTIONS OF THE AIRFIELD.

CONTRACTOR'S USE OF SITE

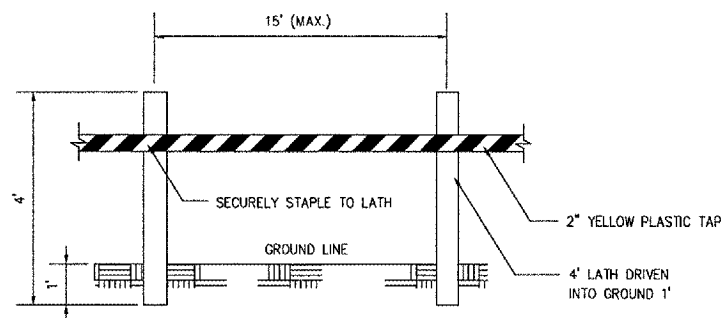
THE CONTRACTOR SHALL NOT OPERATE WITHIN, ENCROACH UPON OR OBSTRUCT AIRPORT OPERATIONAL AREAS, INCLUDING ACTIVE RUNWAY, TAXIWAYS AND APRON SAFETY AREAS, OBJECT AND OBSTACLE FREE ZONES, RUNWAY PROTECTION ZONES AND AIRPORT IMAGINARY SURFACES AS DEFINED IN FEDERAL AVIATION REGULATIONS (FAR) PART 77, "OBJECTS AFFECTING NAVIGABLE AIRSPACE".

UTILITY OUTAGES AND SHUTDOWNS

THE CONTRACTOR SHALL PROVIDE 72 HOURS PRIOR NOTICE OF ANY OUTAGES OR SHUTDOWNS TO THE OWNER AND THE AGENCY OWNING THE AFFECTED UTILITY. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY CONNECTIONS OR OTHER MEASURES AS MAY BE REQUIRED TO MAINTAIN SERVICE AS MAY BE REQUIRED BY THE OWNING AGENCY AT NO COST TO THE OWNER.

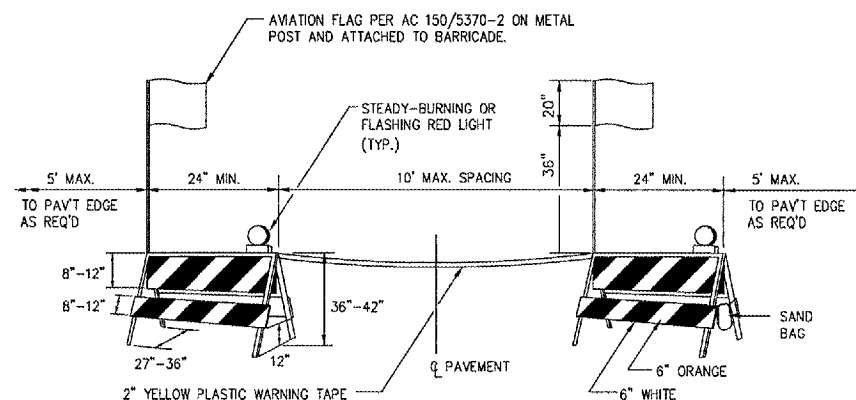
AVAILABLE SOIL DATA

DETAILED SOIL TEST MATERIAL FOR THE BEACH PARK HANGAR SITE IS AVAILABLE UPON REQUEST. PAVEMENT CORE INFORMATION IS AVAILABLE FOR THE RUNWAY PAVEMENTS AND RESURFACING AREAS UPON REQUEST. BORING AND CORING INFORMATION AND INFORMATION ON SOIL TESTS IS MADE AVAILABLE SOLELY FOR THE CONVENIENCE OF THE BIDDER AND/OR CONTRACTOR. NEITHER THE OWNER NOR THE PROJECT ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY OR SUFFICIENCY OF THE AVAILABLE INFORMATION AND THERE IS NO EXPRESSED OR IMPLIED GUARANTEE THAT THE CONDITIONS DESCRIBED IN THE SOIL TEST DATA ARE REPRESENTATIVE OF ALL CONDITIONS THAT MAY BE ENCOUNTERED.



MATERIALS ARE TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION. COST OF MATERIALS, INSTALLATION, RELOCATION AND MAINTENANCE OF LATHING AND WARNING TAPE IS TO BE INCIDENTAL TO THE CONTRACT.

**DETAIL A
LATHING AND WARNING TAPE**



BARRICADES ARE TO BE OF IDOT TYPE I. A STEADY-BURNING OR FLASHING RED LIGHT FACING PASSING TRAFFIC IS TO BE MOUNTED ABOVE THE TOP OF EACH BARRICADE FRAME. THE BARRICADE IS TO BE STABILIZED FROM WIND BY SANDBAGS PLACED ON THE FRAME OR OTHER METHODS APPROVED BY THE RESIDENT ENGINEER. NO PART OF THE REFLECTORIZED PORTION OF THE BARRICADE IS TO BE OBSTRUCTED IN ANY MANNER. COST OF FURNISHING, INSTALLING, RELOCATING AND MAINTAINING BARRICADES IS TO BE INCIDENTAL TO THE CONTRACT.

**DETAIL B
PAVEMENT BARRICADES**

No.	Drawing Issue Description	Date	By

Date
JANUARY 27, 2006
Sheet Title

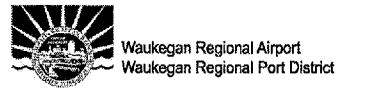
**CONSTRUCTION AND
SAFETY NOTES AND
DETAILS**

831-04TXD
Project Number
AAP 11/15/05
Layout By Date
AAP 11/15/05
Designed By Date
KLK/RMH 01/23/06
Reviewed By Date
KLK AAP --
Drawn By Sheet No.



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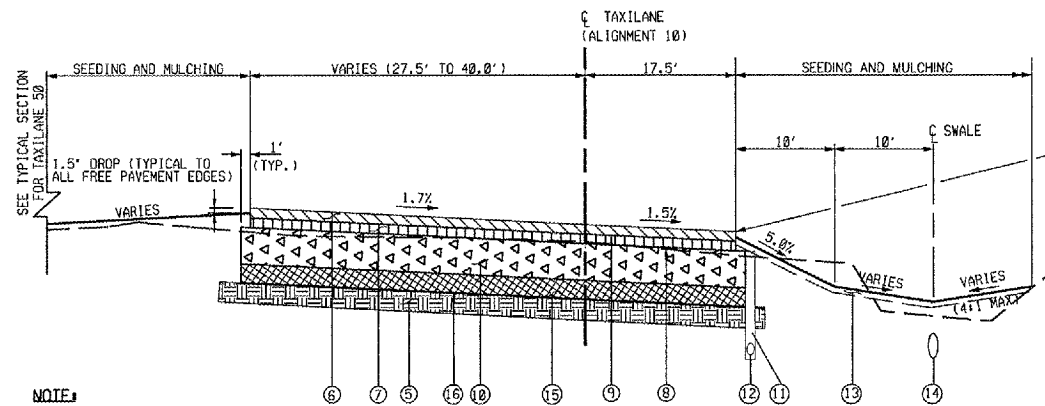


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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
AUTO ACCESS

IDA PROJECT NO. UGN-3499

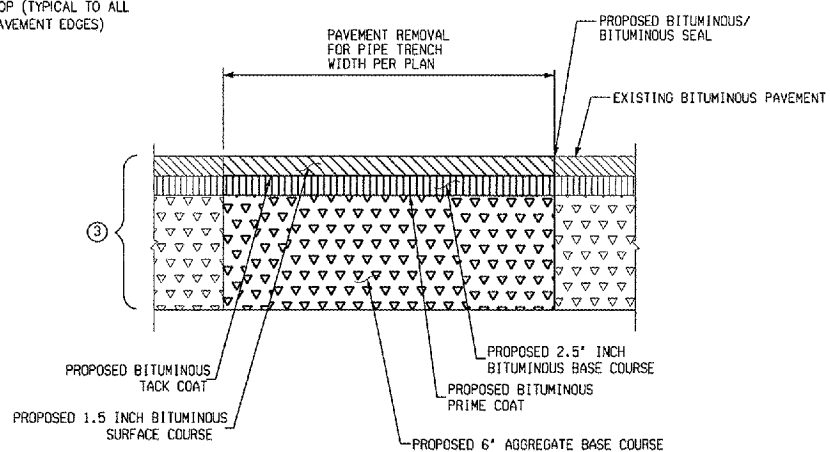


NOTE:

VEGETATION MUST BE REMOVED AT ALL PROPOSED PAVEMENT AREAS, COST INCIDENTAL TO ITEM AR152410.

TYPICAL SECTION - TAXILANE 10

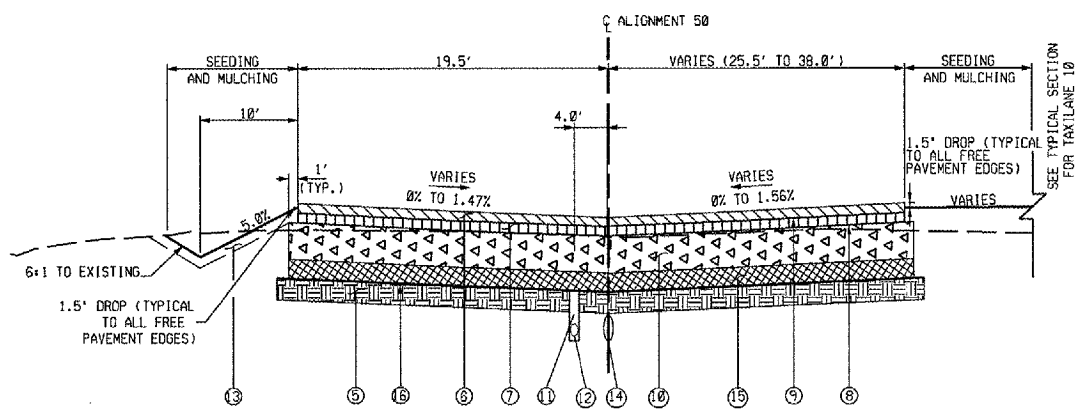
STA 11+16.10 TO 15+21.10
(SECTION SHOWN LOOKING SOUTHEAST)
*SEE PLANS AND CROSS SECTIONS FOR STA 10+00 TO 11+16.10



NOTES

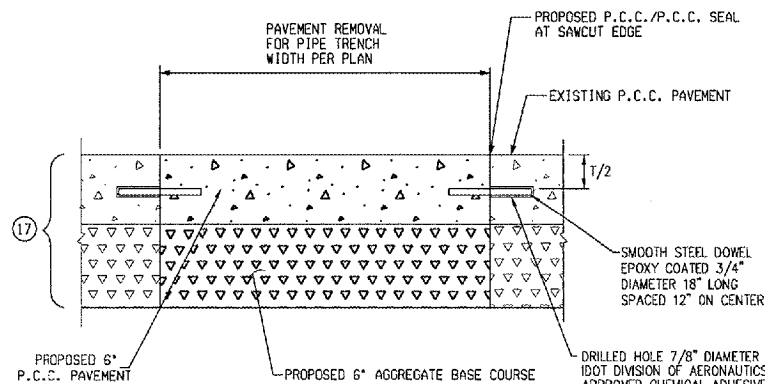
1. REMOVED BITUMINOUS PAVEMENT AND AGGREGATE BASE TO BE DISPOSED OF AT AN OFFSITE LOCATION, COST INCIDENTAL TO REMOVE AND REPLACE BITUMINOUS PAVEMENT.
2. ALL ITEMS ASSOCIATED WITH THE BITUMINOUS PAVEMENT REMOVAL AND REPLACEMENT TO BE INCLUDED IN ITEM AR401916 EXCEPT FOR BITUMINOUS PAVEMENT SAWING WHICH IS TO BE PAID AS ITEM AR401865 AND BITUMINOUS/BITUMINOUS SEAL PAID AS ITEM AR401860.

BITUMINOUS PAVEMENT REMOVAL AND REPLACEMENT - TYPE B



TYPICAL SECTION - TAXILANE 50

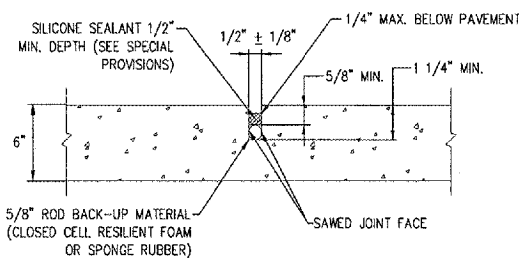
(SECTION SHOWN LOOKING SOUTHEAST)



NOTES

1. REMOVED P.C.C. PAVEMENT AND AGGREGATE BASE TO BE DISPOSED OF AT AN OFFSITE LOCATION, COST INCIDENTAL TO REMOVE AND REPLACE P.C.C. PAVEMENT-6'.
2. ALL ITEMS ASSOCIATED WITH THE P.C.C. PAVEMENT REMOVAL AND REPLACEMENT TO BE INCLUDED IN ITEM AR501910 EXCEPT FOR P.C.C. PAVEMENT SAWING WHICH IS TO BE PAID AS ITEM AR501865.
3. P.C.C. PAVEMENT JOINTS TO MATCH EXISTING.

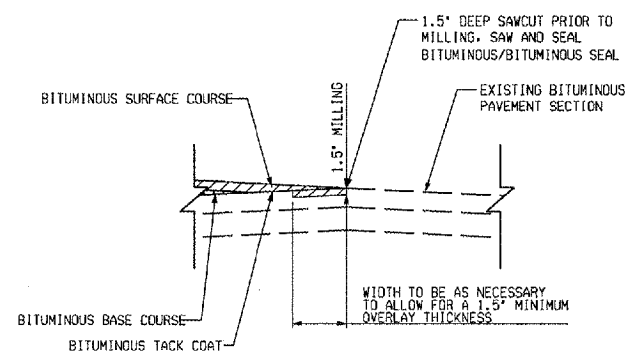
REMOVE AND REPLACE P.C.C. PAVEMENT - 6' DETAIL



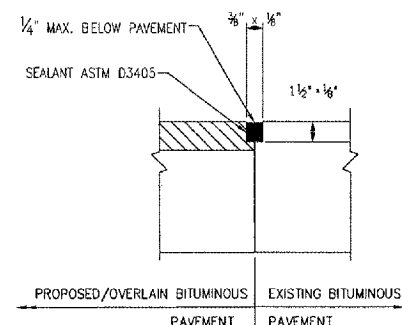
NOTE:

P.C.C. JOINT SEALING FOR PAVEMENT PATCH IS INCIDENTAL TO ITEM AR501910.

P.C.C./P.C.C. SEAL

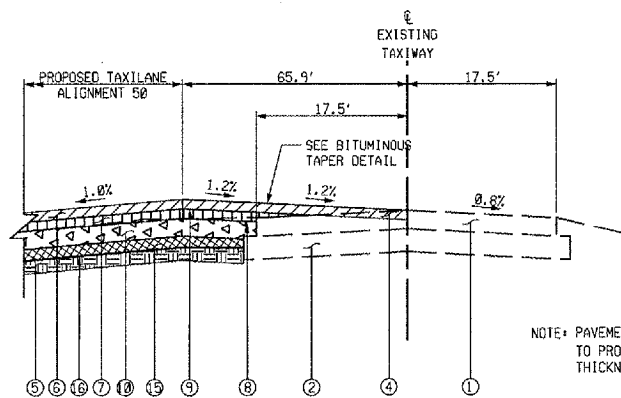


BITUMINOUS TAPER DETAIL



NOTE: BITUMINOUS JOINT SEALING TO BE PAID UNDER ITEM AR401860

BITUMINOUS/BITUMINOUS SEAL



SECTION - SOUTHEAST ACCESS TAXIWAY AT TAXILANE 50

(SECTION SHOWN LOOKING EAST)

NOTE: PAVEMENT MILLING TO BE AS NECESSARY TO PROVIDE A MINIMUM 1.5' PAVEMENT THICKNESS.

No.	Drawing Issue Description	Date	By

Date
JANUARY 27, 2006

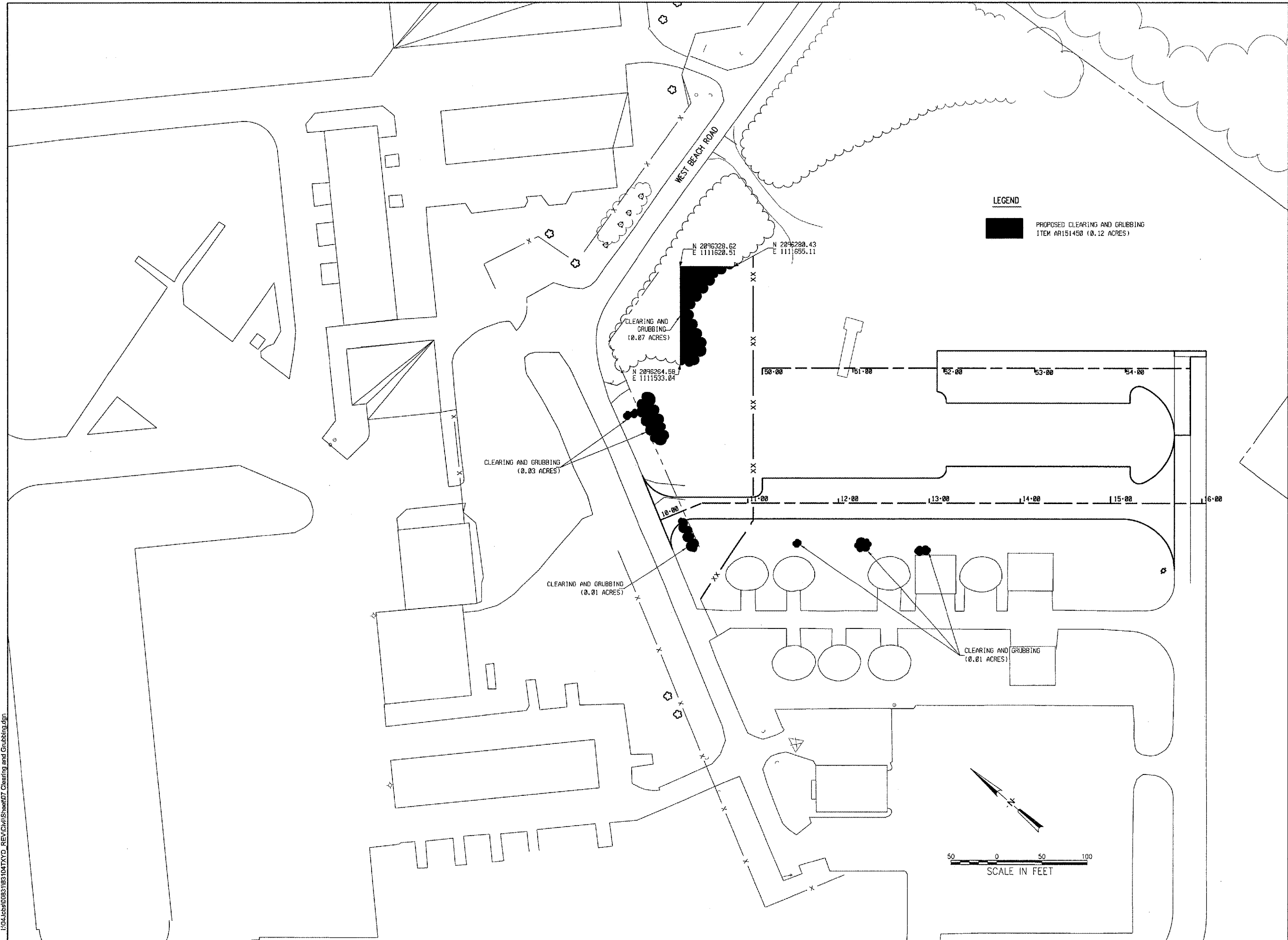
Sheet Title

**TYPICAL SECTIONS
NEW HANGAR PAVEMENTS**

831-04TXD	Project Number
AAP	11/15/05
AAP	11/15/05
KLK/RMH	01/23/06
KLK	AAP
Drawn By	Sheet No.

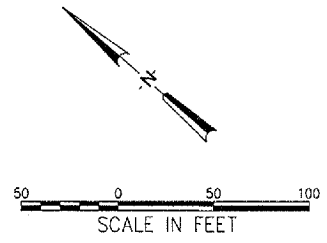
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LEGEND

PROPOSED CLEARING AND GRUBBING
 ITEM AR151450 (0.12 ACRES)

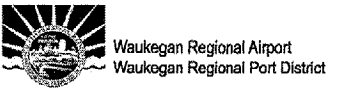


WA055



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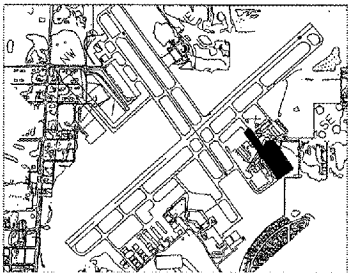


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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR
 APRONS, TAXIWAYS AND
 AUTO ACCESS

IDA PROJECT NO. UGN-3499



No.	Drawing Issue Description	Date	By

Date
 JANUARY 27, 2006

Sheet Title
CLEARING AND GRUBBING PLAN

831-04TXD
 Project Number
 AAP 11/15/05
 Layout By Date
 AAP 11/15/05
 Designed By Date
 KLK/RMH 01/23/06
 Reviewed By Date
 KLK AAP
 Drawn By Sheet No.



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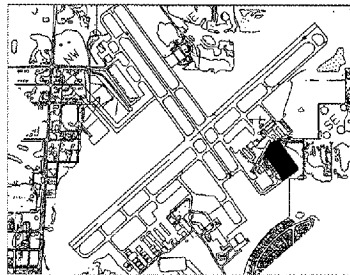
Waukegan Regional Airport
Waukegan Regional Port District

3580 North McAree Road
Waukegan, Illinois 60087
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WAUKEGAN REGIONAL AIRPORT






CONSTRUCT NEW T-HANGAR APRONS, TAXIWAYS AND AUTO ACCESS

IDA PROJECT NO. UGN-3499



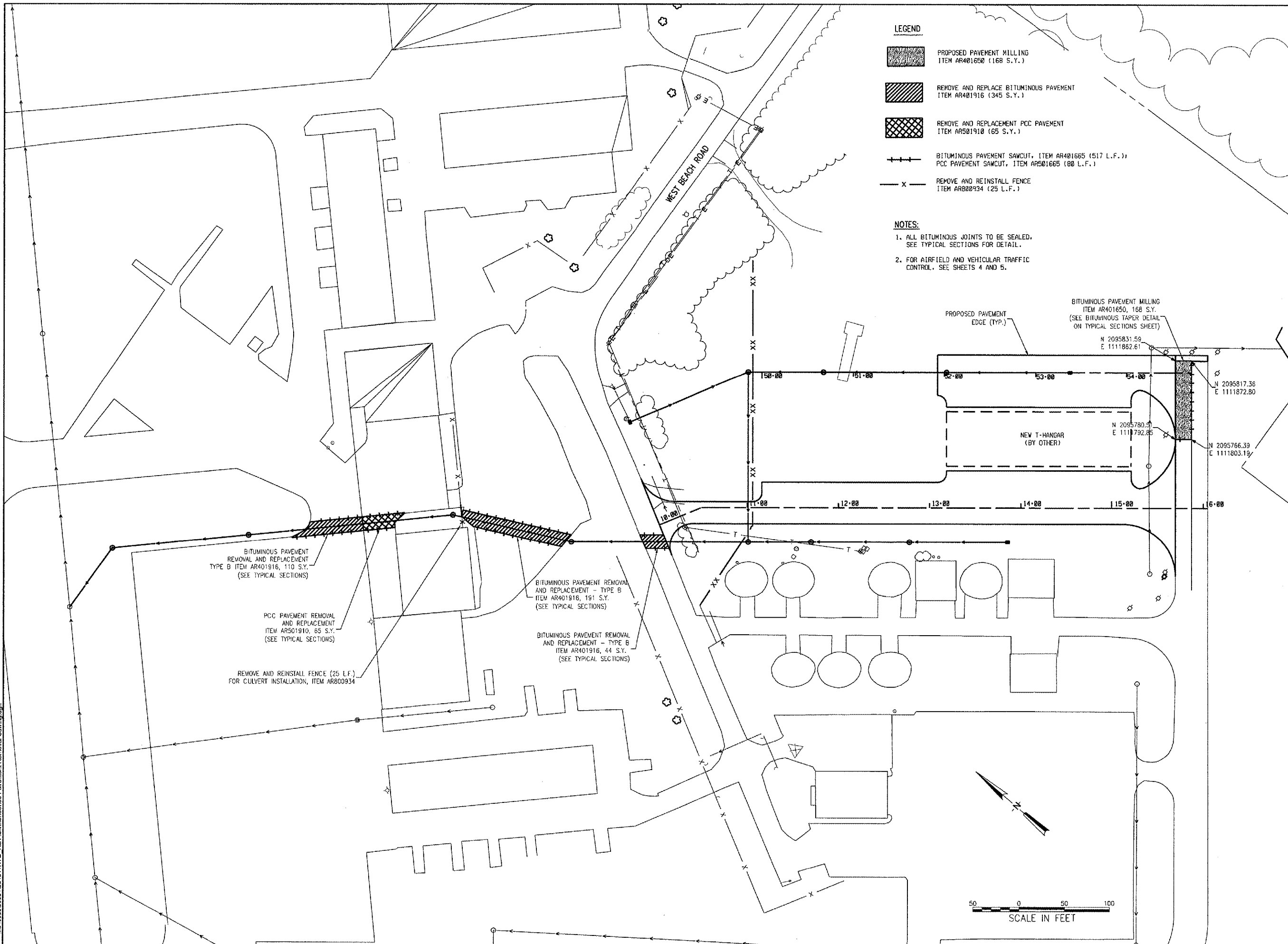
KEY MAP

LEGEND

-  PROPOSED PAVEMENT MILLING
ITEM AR401650 (168 S.Y.)
-  REMOVE AND REPLACE BITUMINOUS PAVEMENT
ITEM AR401916 (345 S.Y.)
-  REMOVE AND REPLACE PCC PAVEMENT
ITEM AR501910 (65 S.Y.)
-  BITUMINOUS PAVEMENT SAWCUT, ITEM AR401665 (517 L.F.);
PCC PAVEMENT SAWCUT, ITEM AR501665 (80 L.F.)
-  REMOVE AND REINSTALL FENCE
ITEM AR800934 (25 L.F.)

NOTES:

1. ALL BITUMINOUS JOINTS TO BE SEALED.
SEE TYPICAL SECTIONS FOR DETAIL.
2. FOR AIRFIELD AND VEHICULAR TRAFFIC CONTROL. SEE SHEETS 4 AND 5.



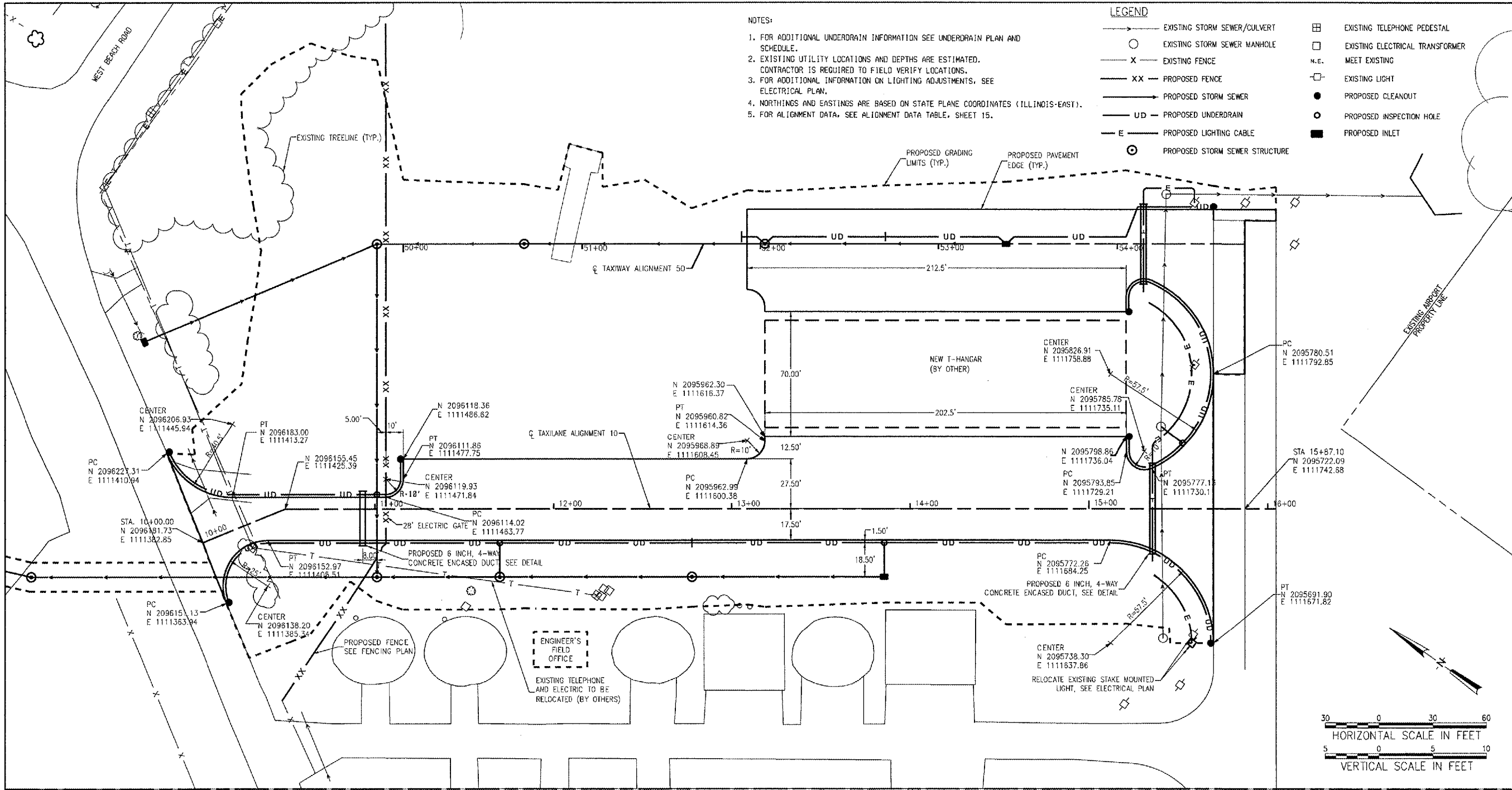
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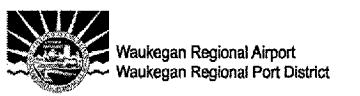
Date
JANUARY 27, 2006
Sheet Title

PAVEMENT REMOVAL AND SAWCUTTING PLAN

831-04TYD
Project Number
AAP 11/15/05
Layout By Date
AAP 11/15/05
Designed By Date
KLK/RMH 01/23/06
Reviewed By Date
KLK AAP
Drawn By AAP
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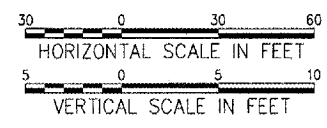
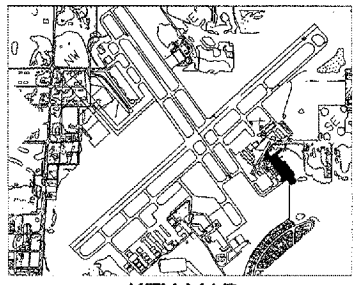


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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR
 APRONS, TAXIWAYS AND
 AUTO ACCESS

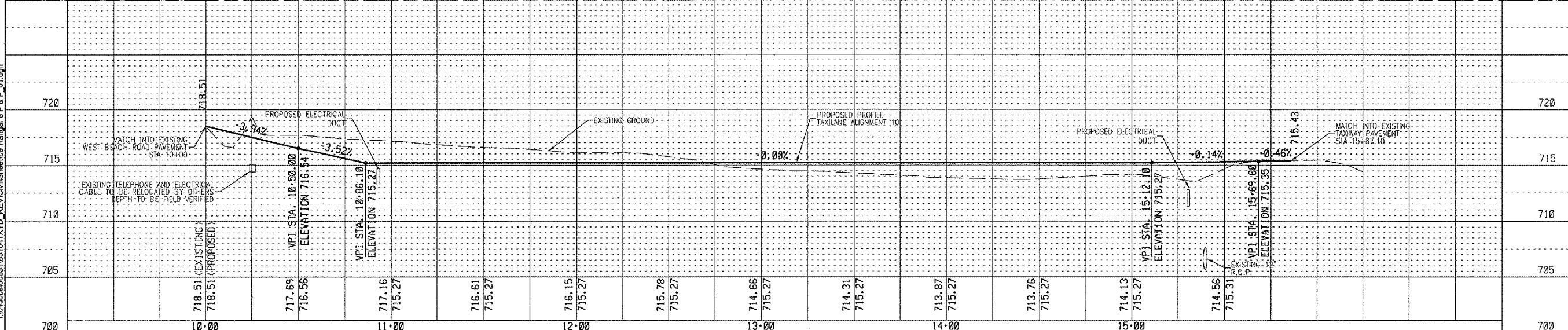
IDA PROJECT NO. UGN-3499



No.	Drawing Issue Description	Date	By

Date: JANUARY 27, 2006
 Sheet Title:

PLAN & PROFILE
 TAXIWAY ALIGNMENT 10



831-04TXD
 Project Number

AAP	11/15/05
Layout By	Date
AAP	11/15/05
Designed By	Date
KLK/RMH	01/23/06
Reviewed By	Date
KLK	AAP
Drawn By	Date

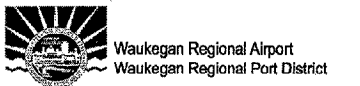
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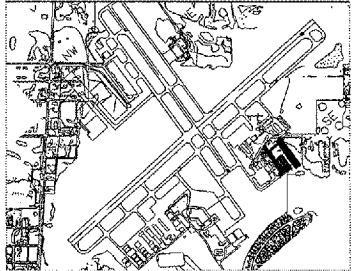


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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
AUTO ACCESS

IDA PROJECT NO. UGN-3499

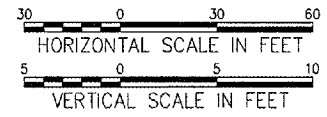
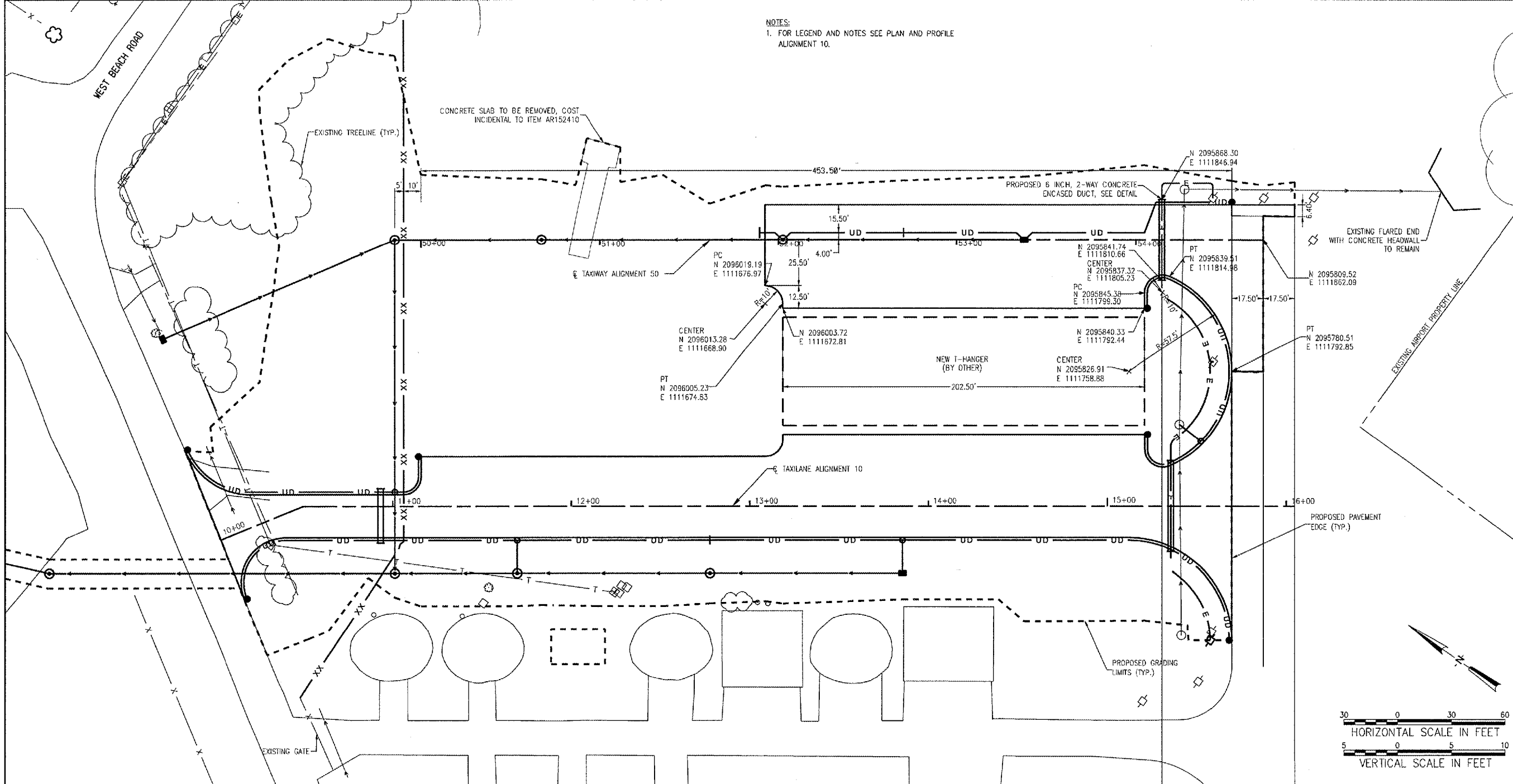


No.	Drawing Issue Description	Date	By

Date: JANUARY 27, 2006
Sheet Title

PLAN & PROFILE
TAXIWAY ALIGNMENT 50

831-04TXVD	
Project Number	
AAP	11/15/05
Layout By	Date
AAP	11/15/05
Designed By	Date
KLK/RMH	01/23/06
Reviewed By	Date
KLK	AAP
Drawn By	Sheet No.



Station	Elevation	Notes
50+00	716.32 (EXISTING)	
50+00	715.61 (PROPOSED)	
51+00	715.59	
51+00	715.26	
51+00	715.13	
51+00	715.37	
51+00	714.95	
51+00	715.51	
52+00	714.95	
52+00	715.16	
53+00	714.67	
53+00	715.47	
53+00	714.16	
53+00	715.40	
54+00	713.84	
54+00	715.23	
54+00	713.40	
54+00	715.58	
54+00	714.81	
54+00	715.34	
54+00	715.22	

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WA055



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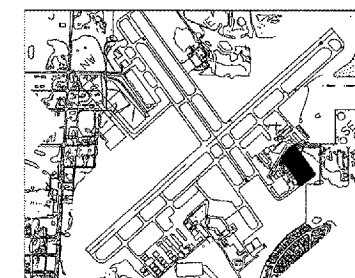
Waukegan Regional Airport
 Waukegan Regional Port District

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 Waukegan, Illinois 60087
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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR APRONS, TAXIWAYS AND AUTO ACCESS

IDA PROJECT NO. UGN-3499



KEY MAP

No.	Drawing Issue Description	Date	By

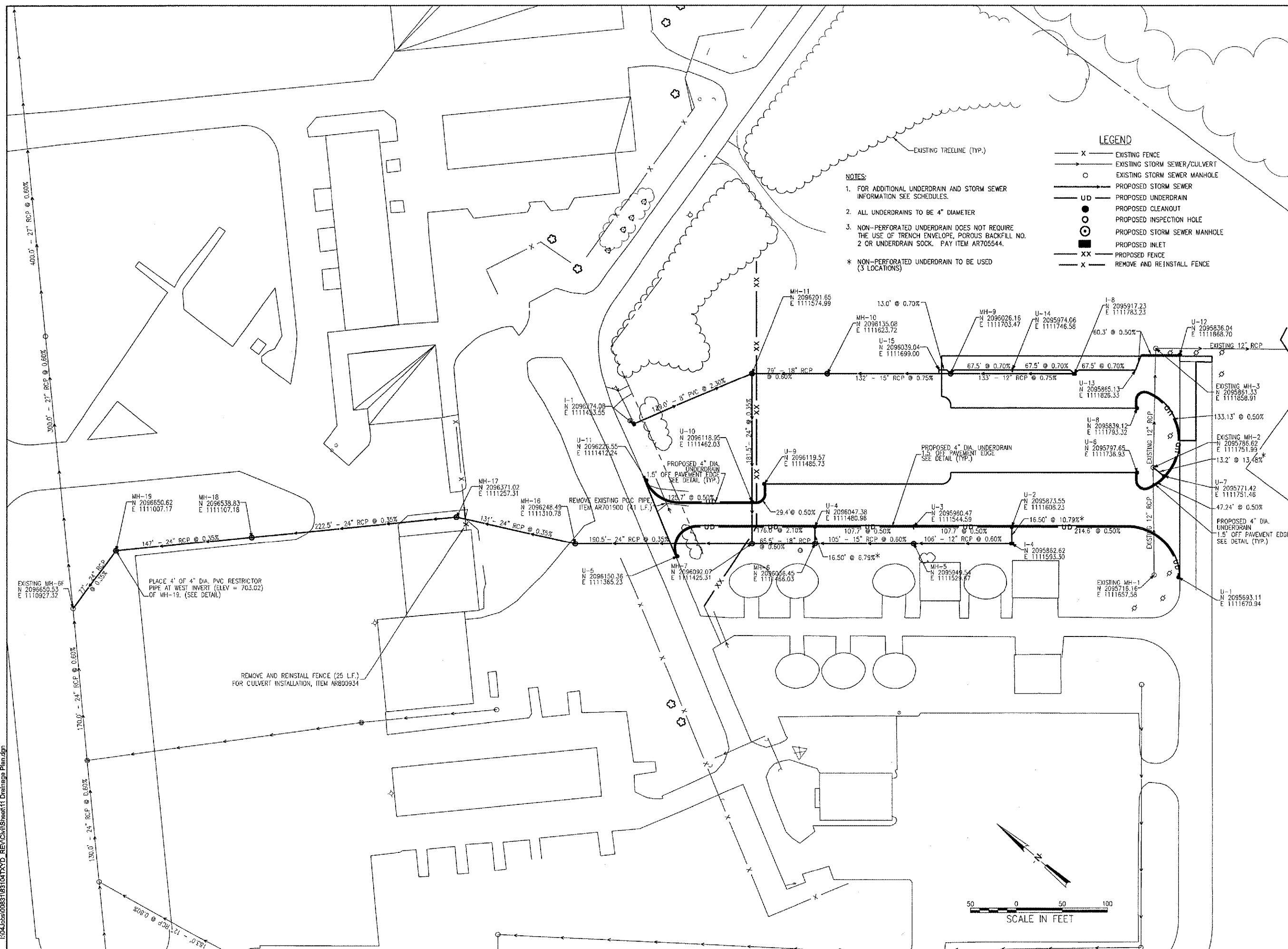
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JANUARY 27, 2006

Sheet Title: _____

STORM SEWER AND UNDERDRAIN PLAN

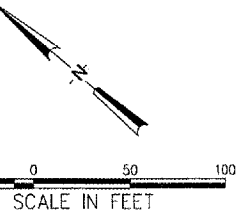
831-04TXD
 Project Number
 Project Name
 Layout By
 Date
 Designed By
 Date
 Reviewed By
 Date
 Drawn By
 Date



- NOTES:**
- FOR ADDITIONAL UNDERDRAIN AND STORM SEWER INFORMATION SEE SCHEDULES.
 - ALL UNDERDRAINS TO BE 4" DIAMETER
 - NON-PERFORATED UNDERDRAIN DOES NOT REQUIRE THE USE OF TRENCH ENVELOPE, POROUS BACKFILL NO. 2 OR UNDERDRAIN SOCK. PAY ITEM AR705544.
- * NON-PERFORATED UNDERDRAIN TO BE USED (3 LOCATIONS)

LEGEND

- X --- EXISTING FENCE
- EXISTING STORM SEWER/CULVERT
- o --- EXISTING STORM SEWER MANHOLE
- PROPOSED STORM SEWER
- UD --- PROPOSED UNDERDRAIN
- --- PROPOSED CLEANOUT
- --- PROPOSED INSPECTION HOLE
- --- PROPOSED STORM SEWER MANHOLE
- --- PROPOSED INLET
- XX --- PROPOSED FENCE
- X --- REMOVE AND REINSTALL FENCE

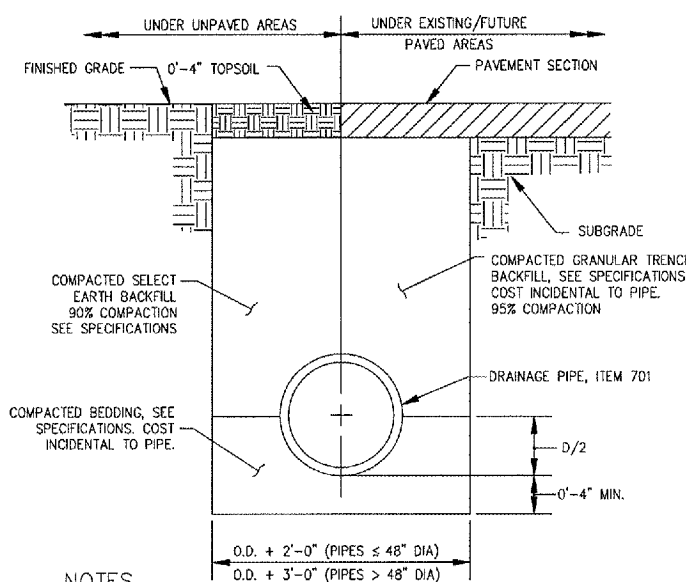


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STORM SEWER SCHEDULE

STRUCTURE DATA							SEWER DATA		
STRUCTURE NUMBER	NORTHING	EASTING	STRUCTURE TYPE	DIAMETER (IN.)	RIM ELEVATION	INVERT ELEVATION	PAY LENGTH (FT.)	SIZE (IN.)	SLOPE %
I-8	2095917.23	1111783.23	INLET	24	715.14	NW 711.00	133	12	0.75
MH-9	2096026.16	1111703.47	MANHOLE	48	715.14	SE 710.01 NW 709.66	132	15	0.75
MH-10	2096135.08	1111623.72	MANHOLE	48	714.01	SE 708.67 NW 708.32	79	18	0.60
MH-11	2096201.65	1111574.99	MANHOLE	72	714.13	SE 707.85 SW 707.15	181.5	24	0.35
MH-7	2096092.07	1111425.31	MANHOLE	60	713.69	-			
I-1	2096274.08	1111453.55	INLET	24	716.14	SE 714.14	139	8" PVC	2.30
MH-11	2096201.65	1111574.99	MANHOLE	72	714.13	SE 707.85 SW 707.15			
EXISTING MH-3	2095861.33	1111858.91	EXISTING MANHOLE	EXISTING MANHOLE	EX ELEV 712.87 PR ELEV 714.51	SW 704.72	ADJUST MANHOLE, PAID UNDER ITEM AR751943		
I-4	2095862.62	1111593.30	INLET	24	712.70	NW 708.90	106	12	0.60
MH-5	2095949.54	1111529.67	MANHOLE	48	713.11	SE 708.27 NW 707.92	105	15	0.60
MH-6	2096036.45	1111466.03	MANHOLE	48	713.36	SE 707.29 NW 706.94	65.5	18	0.60
MH-7	2098092.07	1111425.31	MANHOLE	60	713.69	SE 706.54 NE 706.50 NW 705.94	190.5	24	0.35
MH-16	2096248.49	1111310.78	MANHOLE	48	714.85	SE 705.26 NW 705.11	131	24	0.35
MH-17	2096371.02	1111257.31	MANHOLE	48	713.89	SE 704.66 NW 704.56	222.5	24	0.35
MH-18	2096538.83	1111107.18	MANHOLE	48	711.87	SE 703.78 NW 703.68	147	24	0.35
MH-19	2096650.62	1111007.17	MANHOLE	48	710.58	SE 703.17 W 703.02	77	24	0.35
EXISTING 6F	2096650.53	1110927.32	EXISTING MANHOLE	EXISTING MANHOLE	708.16	E 702.75 NE 698.50			

** PLACE 4" DIA. PVC RESTRICTOR PIPE AT WEST INVERT (ELEV=703.02) OF MANHOLE MH-19 (SEE DETAIL)



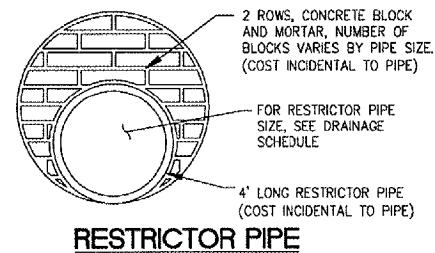
NOTES

- UNSATURABLE MATERIAL ENCOUNTERED DURING PLACEMENT OF BEDDING SHALL BE REMOVED AND REPLACED.
- WITHIN 3 FEET OF EXISTING AND FUTURE PAVED AREA, GRANULAR BACKFILL IS TO BE USED INSTEAD OF EARTH BACKFILL.

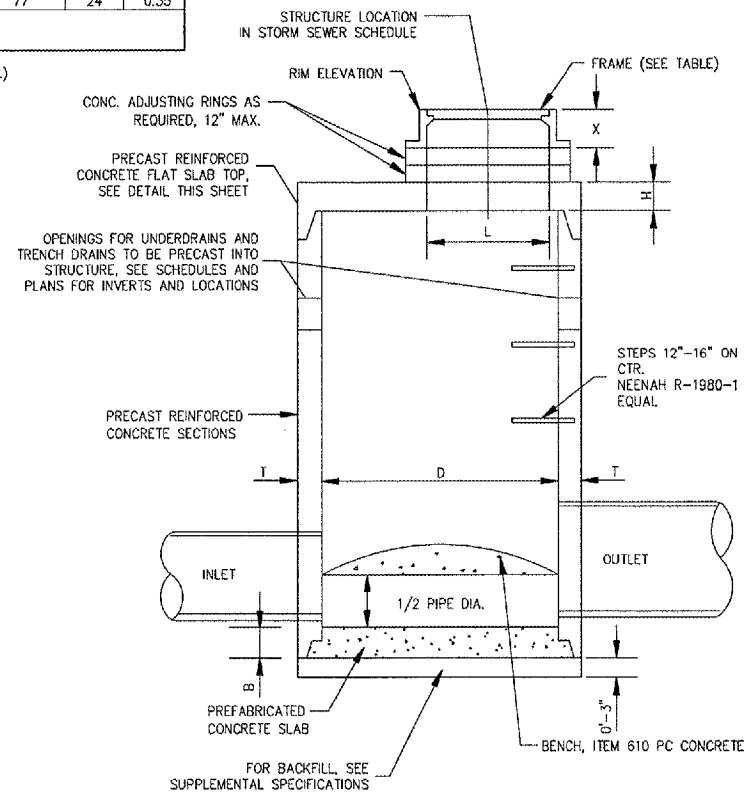
PIPE TRENCH

NOTES

- FOR STRUCTURE LOCATIONS SEE STORM SEWER SCHEDULE.
- FRAME AND GRATE, ADJUSTING RINGS OR RISER SHALL BE MORTARED.
- IDOT STANDARD 602406-01 MAY BE USED INSTEAD OF THE MANHOLE WITH FLAT SLAB TOP WHERE STRUCTURE HEIGHT IS SUFFICIENT TO MEET THE MINIMUMS FOR THE STANDARD.
- ALL MANHOLE AND INLET STRUCTURES TO BE PRECAST.
- CONNECTIONS INCIDENTAL TO UNDERDRAIN.



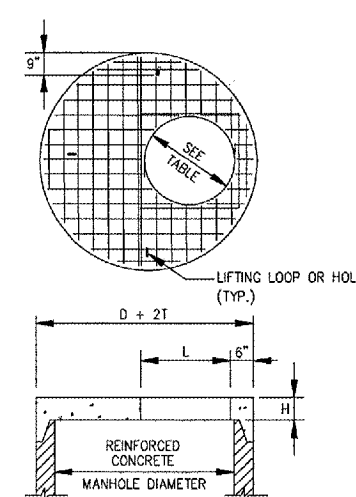
RESTRICTOR PIPE



MANHOLE WITH FLAT SLAB TOP

(IDOT STANDARDS 602406-MODIFIED)

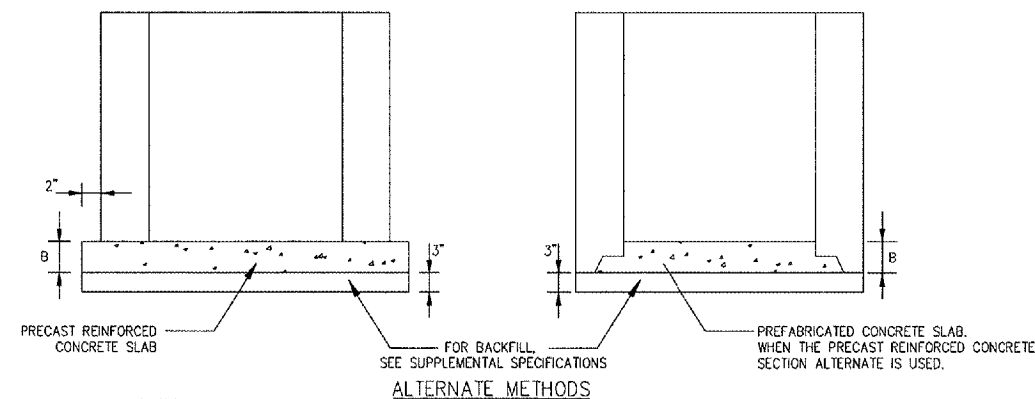
STRUCTURE NUMBER	STRUCTURE TYPE	INSIDE DIA. "D" (IN.)	WALL THICKNESS "T" (IN.)	TOP THICKNESS "H" (IN.)	BOTTOM THICKNESS "B" (IN.)	FRAME HEIGHT "X" (IN.)	HOLE OPENING "L" (IN.)	FRAME TYPE (EAST JORDAN)	COVER/GRATE (EAST JORDAN)
I-1	INLET	24	3	---	4	6	24	1020	TYPE MI
I-4	INLET	24	3	---	4	6	24	1020	TYPE MI
MH-5	MANHOLE	48	5	6	6	6	24	1020	TYPE MI
MH-6	MANHOLE	48	5	6	6	6	24	1020	TYPE MI
MH-7	MANHOLE	60	5	8	8	6	24	1020	TYPE MI
I-8	INLET	24	3	---	4	9	24	1050	TYPE MI
MH-9	MANHOLE	48	5	6	6	9	24	1050	TYPE MI
MH-10	MANHOLE	48	5	6	6	9	24	1050	TYPE MI
MH-11	MANHOLE	72	6	8	8	6	24	1020	TYPE MI
MH-16	MANHOLE	48	5	6	6	6	24	1020	TYPE A "STORM"
MH-17	MANHOLE	48	5	6	6	6	24	1020	TYPE MI
MH-18	MANHOLE	48	5	6	6	6	24	1020	TYPE A "STORM"
MH-19	MANHOLE	48	5	6	6	6	24	1020	TYPE A "STORM"



NOTES

- ADDITIONAL TOP AND BOTTOM BARS PLACED ADJACENT TO ACCESS HOLE.
- MINIMUM 1" COVER ON STEEL BARS.
- THREE LIFTING LOOPS OR HOLES.
- MINIMUM STEEL REINFORCEMENT IN EACH DIRECTION TO BE WWF 1.06 SQ. IN./FT OR EQUIVALENT, IN ACCORDANCE WITH AASHTO M 199 AND IDOT STANDARDS.

PRECAST REINFORCED CONCRETE FLAT SLAB TOP
(IDOT STANDARD 602601)

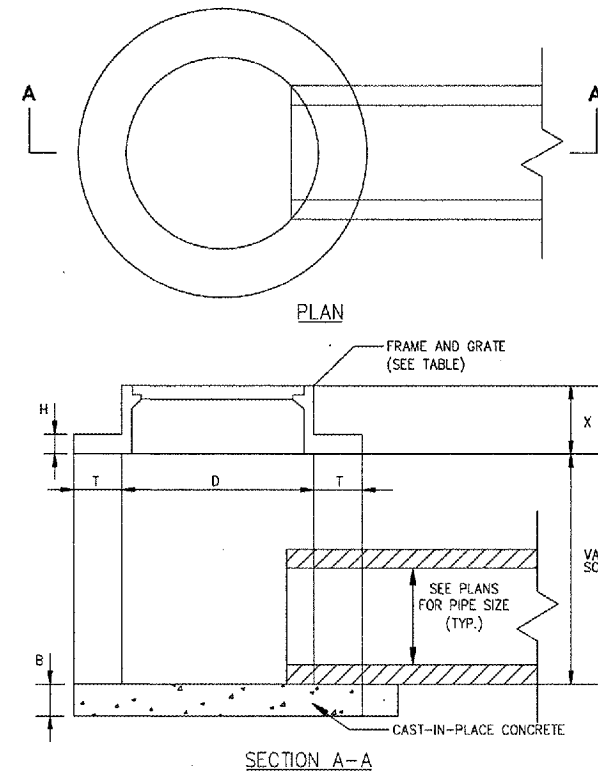


NOTES

- SEE DRAINAGE AND UNDERDRAIN SCHEDULE FOR LOCATION, SIZE AND NUMBER OF PIPE CONNECTIONS.
- INLETS TO BE PRECAST REINFORCED CONCRETE SECTIONS (T = 3").

INLET TYPE A

(IDOT STANDARD 602301)

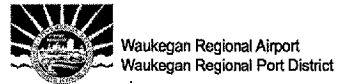


WA055



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WAUKEGAN REGIONAL AIRPORT

**CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
AUTO ACCESS**

IDA PROJECT NO. UGN-3499

No.	Drawing Issue Description	Date	By

Date
JANUARY 27, 2006
Sheet Title

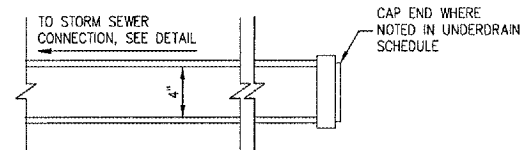
**STORM SEWER SCHEDULE
AND DETAILS**

831-04TXD	
Project Number	AAP 11/15/05
Layout By	Date
AAP	11/15/05
Designed By	Date
KLK/RMH	01/23/06
Reviewed By	Date
KLK	AAP
Drawn By	Sheet No.

UNDERDRAIN SCHEDULE

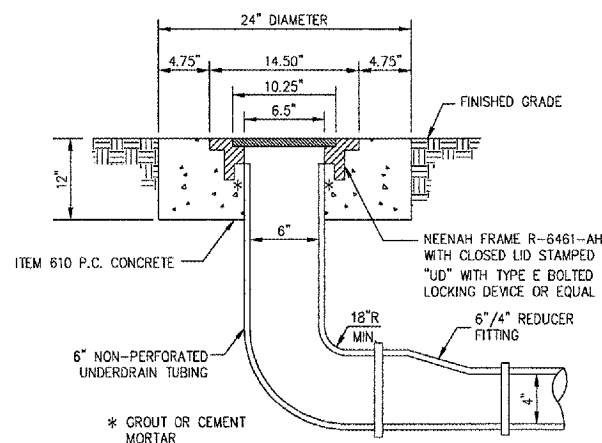
STRUCTURE DATA						SEWER DATA	
STRUCTURE NUMBER	NORTHING	EASTING	STRUCTURE TYPE	RIM ELEVATION	INVERT ELEVATION	PAY LENGTH (FT.)	SLOPE %
U-1	2095693.11	1111670.94	CLEANOUT	715.31	NE 713.38	214.6	0.50%
U-2	2095873.55	1111608.23	INSPECTION HOLE	714.79	SW 712.31 SE 712.31 NW 712.31	16.5	10.79% * X
I-4	2095862.62	1111593.30	MANHOLE	712.70	NE 710.53		
U-2	2095873.55	1111608.23	INSPECTION HOLE	714.79	SW 712.31 SE 712.31 NW 712.31	107.7	0.50%
U-3	2095960.47	1111544.59	SLOPE BREAK	714.79	NW 712.85 SE 712.85	107.7	0.50%
U-4	2096047.38	1111480.96	INSPECTION HOLE	714.79	NW 712.31 SW 712.31 SE 712.31	16.5	6.79% * X
MH-6	2096036.45	1111466.03	MANHOLE	713.36	NE 711.19		
U-4	2096047.38	1111480.96	INSPECTION HOLE	714.79	NW 712.31 SW 712.31 SE 712.31	176.0	2.10%
U-5	2096150.36	1111365.23	CLEANOUT	718.01	NE 716.00		
U-6	2095797.65	1111736.93	CLEANOUT	715.70	SW 712.62	47.3	0.50%
U-7	2095771.42	1111751.46	INSPECTION HOLE	714.91	N 712.38 E 712.38 W 712.38	13.2	13.48% * X
EXISTING MH-9	2095786.62	1111751.99	MANHOLE	712.77	S 710.60		
U-7	2095771.42	1111751.46	INSPECTION HOLE	714.91	N 712.38 E 712.38 W 712.38	133.1	0.50%
U-8	2095839.12	1111793.32	CLEANOUT	715.70	NE 713.04		
U-9	2096119.57	1111485.73	CLEANOUT	715.52	W 713.29	29.4	0.50%
U-10	2096118.95	1111462.03	INSPECTION HOLE	715.20	SE 713.14 NW 713.14	125.7	0.50%
U-11	2096226.55	1111412.24	CLEANOUT	718.52	S 713.77		
U-12	2095836.04	1111868.70	CLEANOUT	714.80	NW 713.15	60.3	0.50%
U-13	2095865.13	1111826.33	SLOPE BREAK	-	E 713.45 NW 713.45	67.5	0.70%
I-8	2095917.23	1111783.23	MANHOLE	715.14	SE 712.97 NW 712.97	67.5	0.70%
U-14	2095974.06	1111746.58	SLOPE BREAK	-	SE 713.45 NW 713.45	67.5	0.70%
MH-9	2096026.16	1111703.47	MANHOLE	715.14	SE 712.97 NW 712.97	13.0	0.70%
U-15	2096039.04	1111699.00	CAPPED END	-	SE 713.07		

* NONPERFORATED UNDERDRAIN, ITEM AR728544



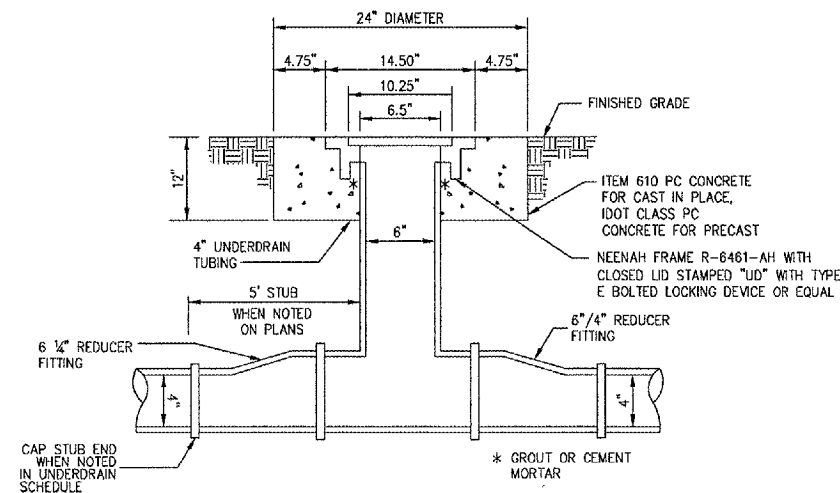
NOTE:
CAP MUST BE APPROVED PRIOR TO INSTALLATION, SEE SPECIAL PROVISIONS.

UNDERDRAIN CAPPED END

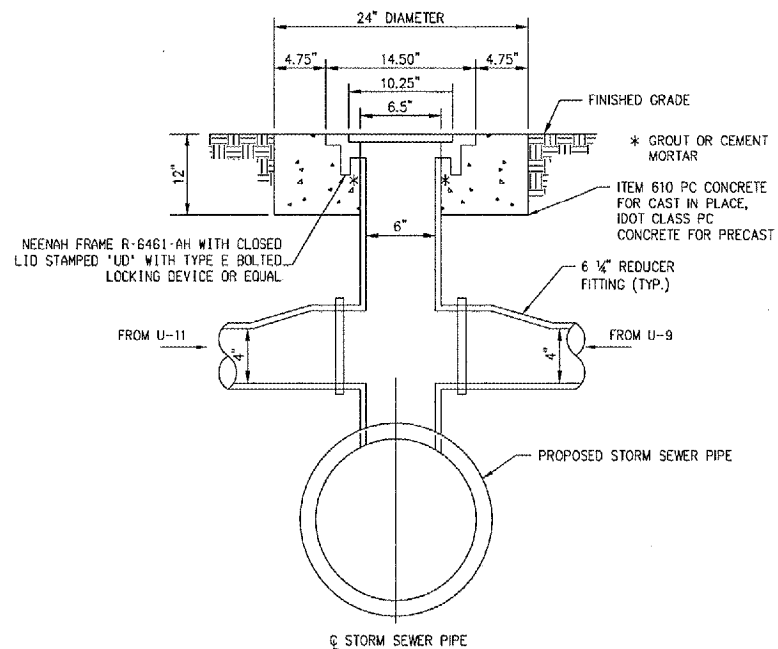


NOTE:
FRAME AND LID, CONCRETE, 6" NON-PERFORATED TUBING, REDUCER FITTINGS AND ELBOW FITTINGS ARE INCIDENTAL TO CLEANOUT.

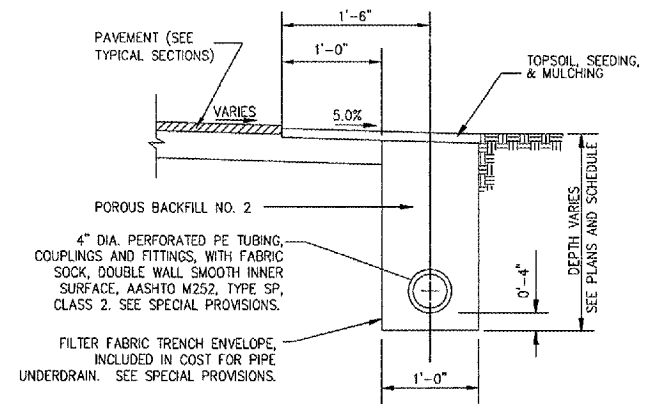
UNDERDRAIN CLEANOUT



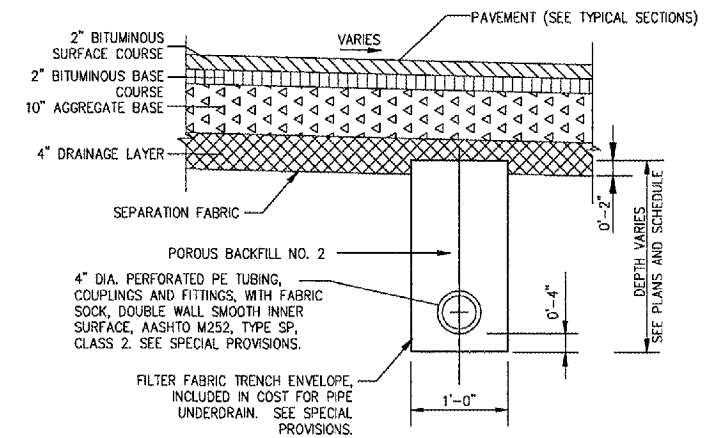
UNDERDRAIN INSPECTION HOLE



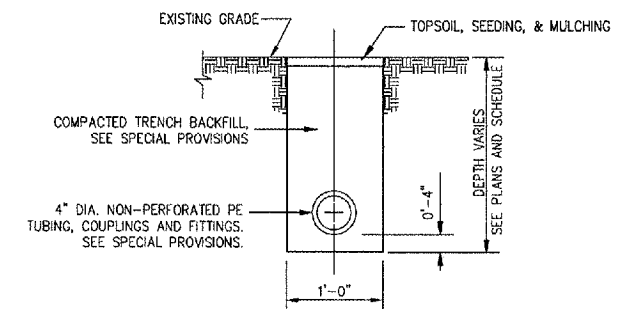
UNDERDRAIN INSPECTION HOLE (U-10)



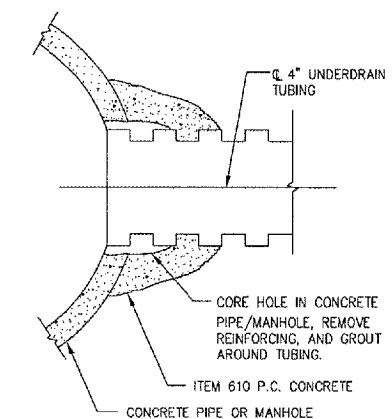
PERFORATED UNDERDRAIN ALONG PAVEMENT EDGE



PERFORATED UNDERDRAIN UNDER PAVEMENT



NON-PERFORATED UNDERDRAIN



NOTE:
1. HOLE FOR UNDERDRAIN TO BE PRECAST INTO MANHOLES AT PROPER INVERT.

UNDERDRAIN CONCRETE COLLAR AND GROUT CONNECTION

WA055



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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
AUTO ACCESS

IDA PROJECT NO. UGN-3499

No.	Drawing Issue Description	Date	By

Date
JANUARY 27, 2006
Sheet Title

UNDERDRAIN SCHEDULE AND DETAILS

831-04TXD
Project Number
AAP 11/15/05
Layout By Date
AAP 11/15/05
Designed By Date
KLK/RMH 01/23/06
Reviewed By Date
KLK AAP
Drawn By Sheet No.

01/23/2006, 01:48 PM P:\04\05\06\831\04TXD_REV\Civil\Sheet13 Underdrain Schedule and Details.dgn



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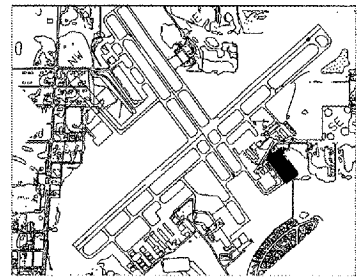


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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
AUTO ACCESS

IDA PROJECT NO. UGN-3499



KEY MAP

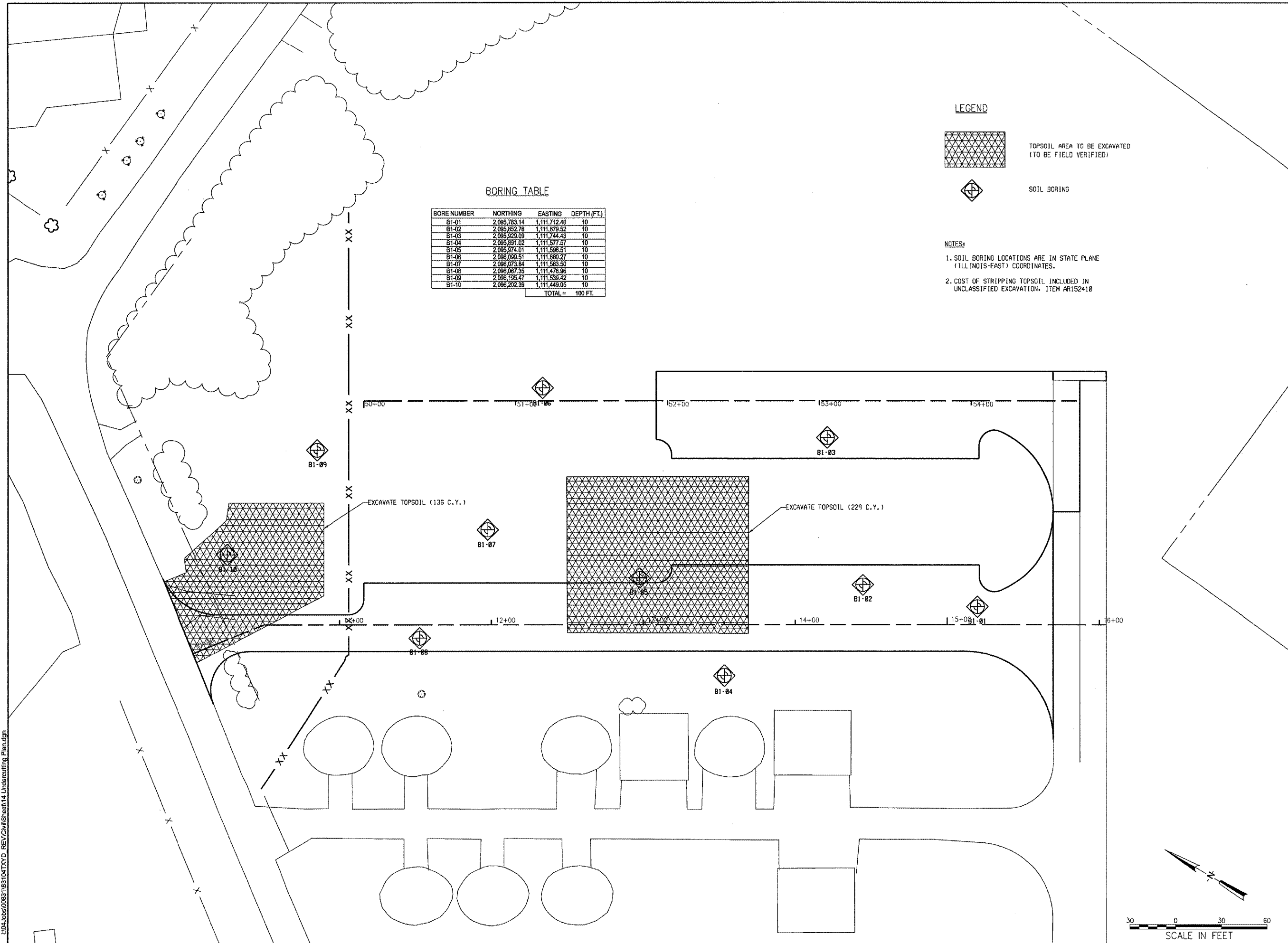
No.	Drawing Issue Description	Date	By

Date
JANUARY 27, 2008

Sheet Title

UNDERCUTTING PLAN

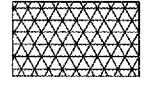
831-04TXD
Project Number
AAP 11/15/05
Layout By Date
AAP 11/15/05
Designed By Date
KLK/RMH 01/23/08
Reviewed By Date
KLK AAP
Drawn By Sheet No.



BORING TABLE

BORE NUMBER	NORTHING	EASTING	DEPTH (FT.)
B1-01	2,095,783.14	1,111,712.48	10
B1-02	2,095,852.78	1,111,679.52	10
B1-03	2,095,929.09	1,111,744.43	10
B1-04	2,095,991.02	1,111,577.57	10
B1-05	2,095,974.01	1,111,598.51	10
B1-06	2,096,059.51	1,111,660.27	10
B1-07	2,096,073.84	1,111,563.50	10
B1-08	2,096,067.35	1,111,478.96	10
B1-09	2,096,195.47	1,111,638.42	10
B1-10	2,096,202.39	1,111,449.05	10
TOTAL =			100 FT.

LEGEND



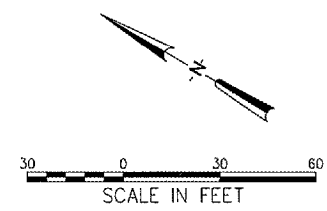
TOPSOIL AREA TO BE EXCAVATED
(TO BE FIELD VERIFIED)



SOIL BORING

NOTES:

1. SOIL BORING LOCATIONS ARE IN STATE PLANE (ILLINOIS-EAST) COORDINATES.
2. COST OF STRIPPING TOPSOIL INCLUDED IN UNCLASSIFIED EXCAVATION. ITEM AR152410

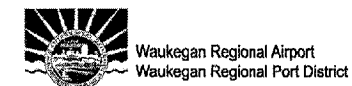


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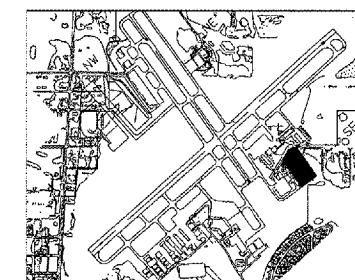


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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
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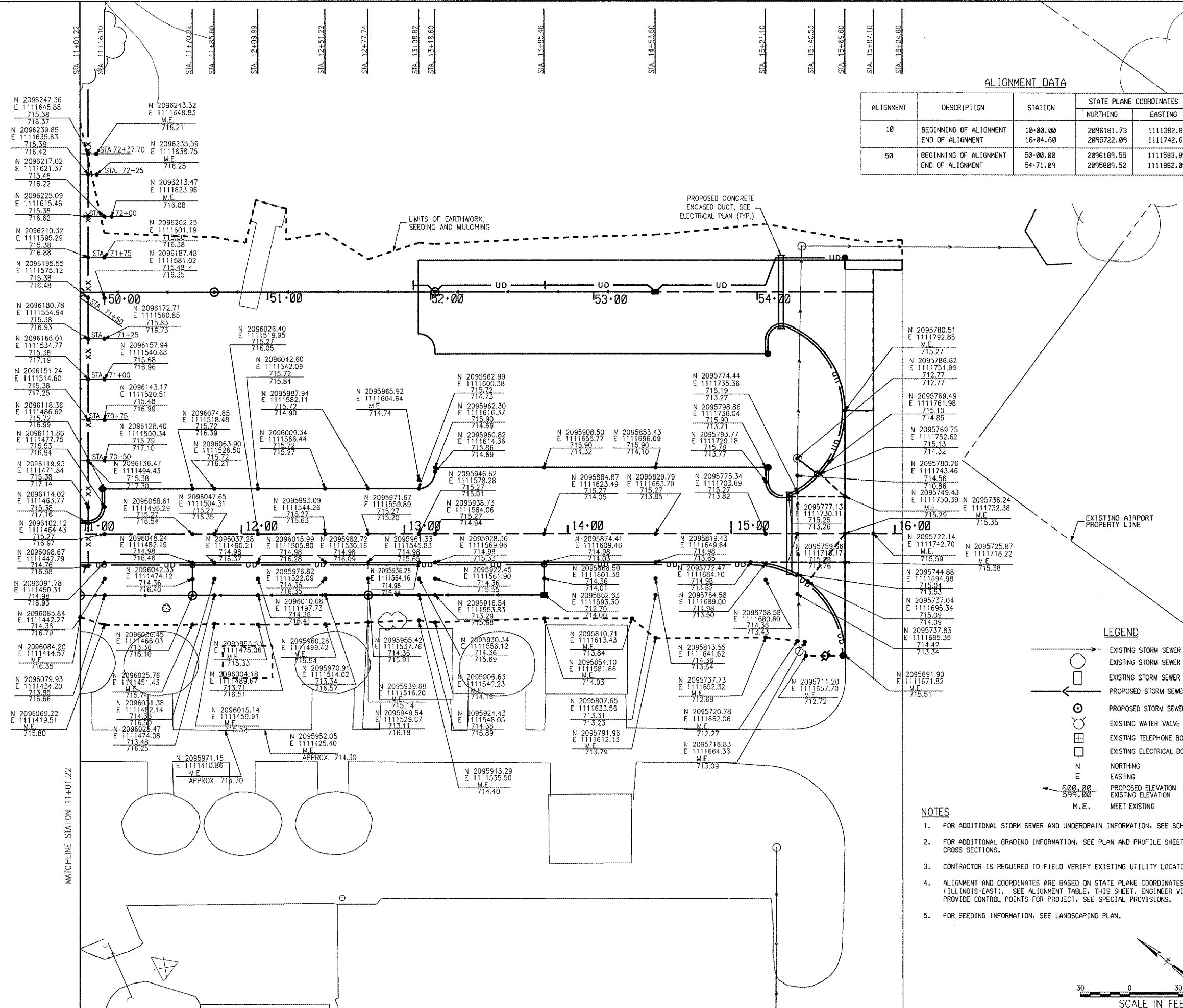
IDA PROJECT NO. UGN-3499



KEY MAP

ALIGNMENT DATA

ALIGNMENT	DESCRIPTION	STATION	STATE PLANE COORDINATES	
			NORTHING	EASTING
10	BEGINNING OF ALIGNMENT	10+00.00	2096181.73	1111382.85
	END OF ALIGNMENT	16+04.60	2095722.09	1111742.68
50	BEGINNING OF ALIGNMENT	50+00.00	2096189.55	1111583.85
	END OF ALIGNMENT	54+71.09	2095809.52	1111862.09

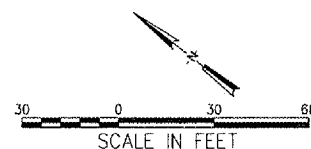


LEGEND

- EXISTING STORM SEWER
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM SEWER INLET
- ← PROPOSED STORM SEWER
- ⊙ PROPOSED STORM SEWER STRUCTURE
- ⊙ EXISTING WATER VALVE
- ⊙ EXISTING TELEPHONE BOX
- ⊙ EXISTING ELECTRICAL BOX
- N NORTHING
- E EASTING
- 600.00 PROPOSED ELEVATION
- 599.00 EXISTING ELEVATION
- M.E. MEET EXISTING

NOTES

1. FOR ADDITIONAL STORM SEWER AND UNDERDRAIN INFORMATION, SEE SCHEDULES.
2. FOR ADDITIONAL GRADING INFORMATION, SEE PLAN AND PROFILE SHEETS AND CROSS SECTIONS.
3. CONTRACTOR IS REQUIRED TO FIELD VERIFY EXISTING UTILITY LOCATIONS.
4. ALIGNMENT AND COORDINATES ARE BASED ON STATE PLANE COORDINATES (ILLINOIS-EAST). SEE ALIGNMENT TABLE, THIS SHEET. ENGINEER WILL PROVIDE CONTROL POINTS FOR PROJECT. SEE SPECIAL PROVISIONS.
5. FOR SEEDING INFORMATION, SEE LANDSCAPING PLAN.



No.	Drawing Issue Description	Date	By

Date
JANUARY 27, 2006
Sheet Title

STAKING PLAN
TAXILANE ALIGNMENT 10

831-04TXD	
Project Number	
AAP	11/15/05
Layout By	Date
AAP	11/15/05
Designed By	Date
KLK/RMH	01/23/06
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KLK	AAP
Drawn By	Sheet No.



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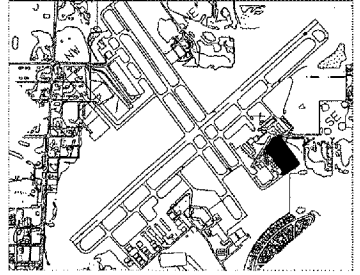


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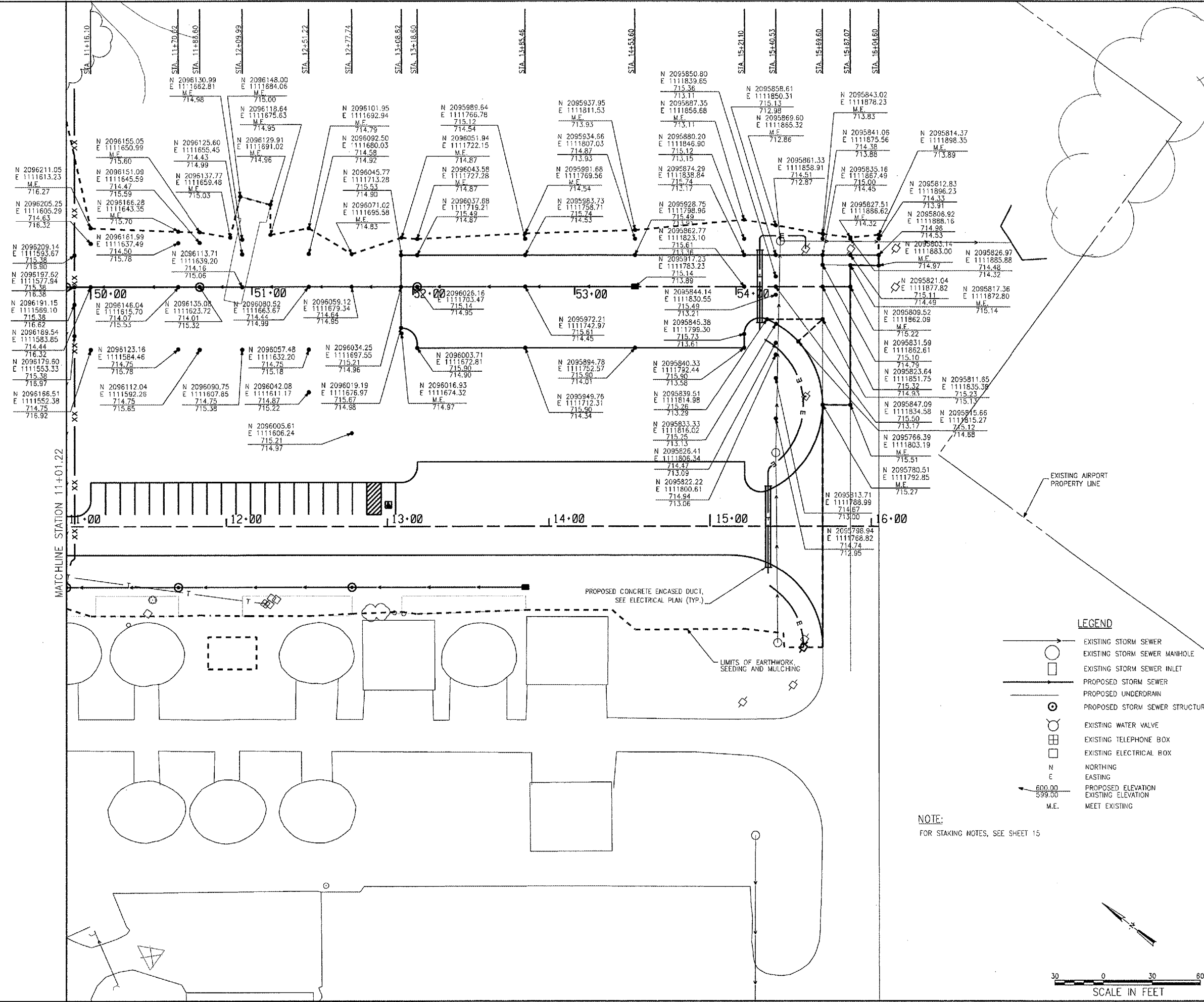
WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
AUTO ACCESS

IDA PROJECT NO. UGN-3499



KEY MAP



LEGEND

- EXISTING STORM SEWER
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM SEWER INLET
- PROPOSED STORM SEWER
- PROPOSED UNDERDRAIN
- PROPOSED STORM SEWER STRUCTURE
- EXISTING WATER VALVE
- EXISTING TELEPHONE BOX
- EXISTING ELECTRICAL BOX
- N NORTHING
- E EASTING
- 600.00 PROPOSED ELEVATION
- 599.00 EXISTING ELEVATION
- M.E. MEET EXISTING

NOTE:
FOR STAKING NOTES, SEE SHEET 15

SCALE IN FEET

No.	Drawing Issue Description	Date	By

Date
JANUARY 27, 2006

STAKING PLAN
TAXILANE ALIGNMENT 50

831-04TXD

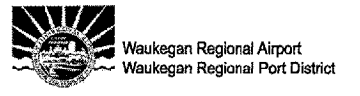
Project Number	
AAP	11/15/05
Layout By	
Date	
AAP	11/15/05
Designed By	
Date	
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KLK	AAP
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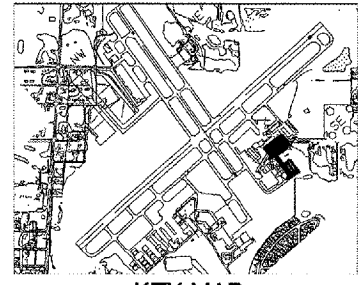


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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR APRONS, TAXIWAYS AND AUTO ACCESS

IDA PROJECT NO. UGN-3499



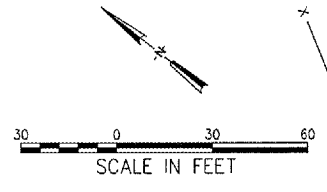
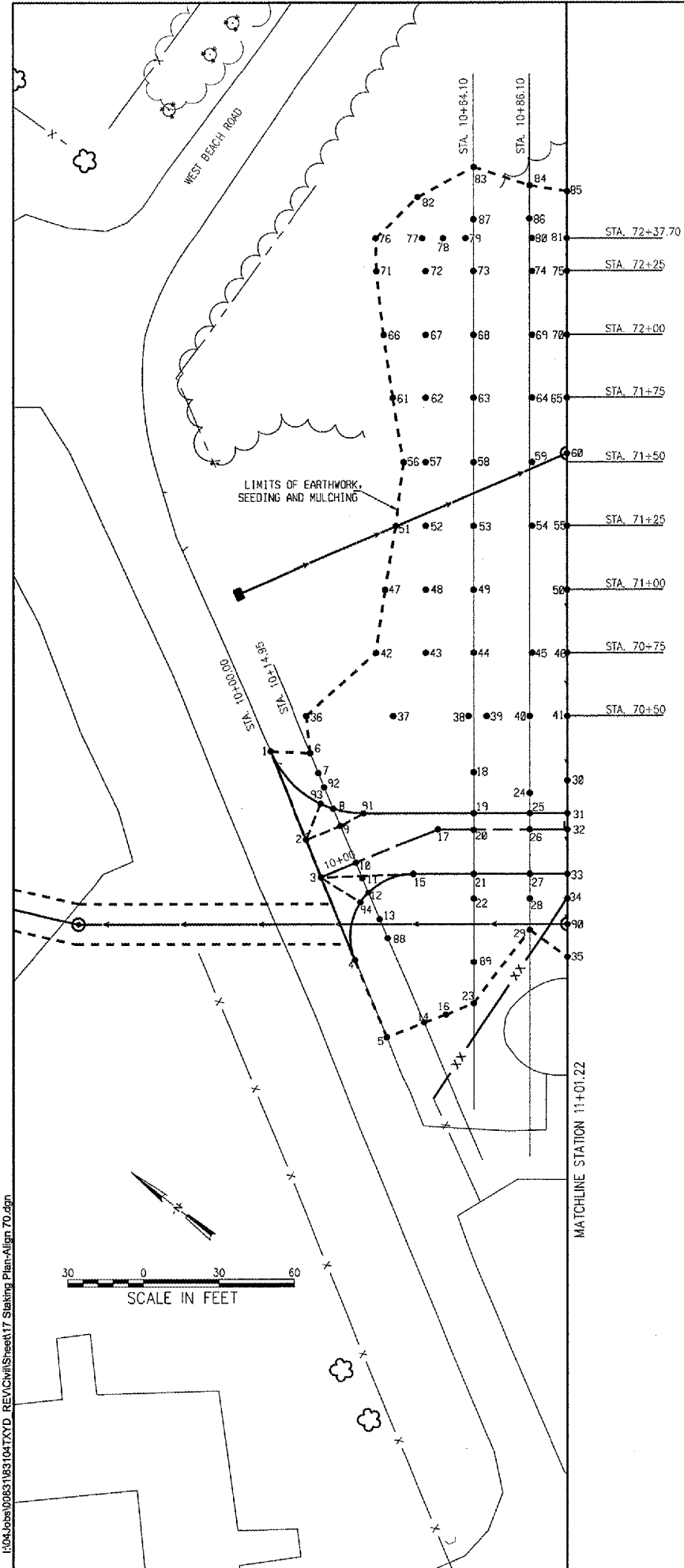
KEY MAP

PT	NORTHING	EASTING	PROP EL	EXIST EL	PT	NORTHING	EASTING	PROP EL	EXIST EL
1	2,096,227.31	1,111,410.94	718.72	718.72	51	2,096,239.41	1,111,512.01	717.62	717.62
2	2,096,195.21	1,111,391.19	718.63	718.63	52	2,096,229.87	1,111,519.00	715.65	717.44
3	2,096,181.73	1,111,382.65	718.51	718.51	53	2,096,214.66	1,111,538.13	715.27	717.16
4	2,096,151.13	1,111,363.94	718.21	718.21	54	2,096,196.11	1,111,543.72	714.81	717.00
5	2,096,122.60	1,111,346.35	718.02	718.02	55	2,096,184.81	1,111,551.99	714.34	717.03
6	2,096,214.14	1,111,419.72	717.79	717.79	56	2,096,251.63	1,111,534.05	717.09	717.09
7	2,096,206.88	1,111,415.36	717.18	718.06	57	2,096,244.64	1,111,539.17	715.65	717.07
8	2,096,193.91	1,111,407.59	717.67	718.14	58	2,096,229.43	1,111,550.31	715.27	716.72
9	2,096,187.47	1,111,403.72	717.77	717.51	59	2,096,210.89	1,111,563.88	714.81	716.52
10	2,096,173.87	1,111,395.57	717.60	716.75	60	2,096,201.65	1,111,574.99	714.13	716.39
11	2,096,168.29	1,111,392.22	717.54	716.66	61	2,096,269.86	1,111,551.69	717.81	717.81
12	2,096,162.93	1,111,389.01	717.34	716.55	62	2,096,259.41	1,111,559.34	715.65	718.48
13	2,096,153.03	1,111,383.07	716.97	716.48	63	2,096,244.20	1,111,570.48	715.27	718.97
14	2,096,114.20	1,111,359.78	715.09	715.09	64	2,096,225.66	1,111,584.05	714.81	717.85
15	2,096,152.97	1,111,405.51	716.70	717.54	65	2,096,214.35	1,111,592.33	714.38	717.14
16	2,096,109.15	1,111,367.40	716.03	716.03	66	2,096,207.56	1,111,569.72	718.41	718.41
17	2,096,155.45	1,111,425.39	716.54	717.81	67	2,096,274.18	1,111,579.51	715.65	719.01
18	2,096,157.39	1,111,451.91	715.27	717.75	68	2,096,258.97	1,111,590.85	715.27	718.77
19	2,096,147.91	1,111,438.96	716.20	717.69	69	2,096,240.43	1,111,604.22	714.81	717.58
20	2,096,144.00	1,111,433.61	716.10	717.61	70	2,096,229.12	1,111,612.50	714.55	716.87
21	2,096,133.73	1,111,419.60	715.84	717.39	71	2,096,304.61	1,111,588.22	718.89	718.89
22	2,096,127.82	1,111,411.53	715.22	717.30	72	2,096,288.95	1,111,599.68	715.65	718.77
23	2,096,103.03	1,111,377.65	716.20	716.20	73	2,096,273.74	1,111,610.82	715.27	718.88
24	2,096,134.85	1,111,458.36	714.83	717.46	74	2,096,255.20	1,111,624.40	714.81	717.32
25	2,096,130.16	1,111,451.96	715.36	717.38	75	2,096,243.89	1,111,632.68	714.67	716.61
26	2,096,126.32	1,111,446.71	715.27	717.33	76	2,096,312.38	1,111,598.27	719.29	719.29
27	2,096,115.98	1,111,432.59	714.98	717.18	77	2,096,297.52	1,111,609.15	716.22	718.92
28	2,096,110.07	1,111,424.52	714.36	717.02	78	2,096,290.91	1,111,613.99	715.88	718.75
29	2,096,102.78	1,111,414.57	716.79	716.79	79	2,096,283.74	1,111,619.24	715.33	718.75
30	2,096,125.74	1,111,471.30	715.13	717.24	80	2,096,262.70	1,111,634.64	714.81	717.19
31	2,096,118.06	1,111,468.82	715.35	717.25	81	2,096,251.39	1,111,642.92	714.76	716.53
32	2,096,114.22	1,111,455.57	715.27	717.21	82	2,096,308.66	1,111,621.27	719.16	719.16
33	2,096,103.00	1,111,441.45	714.98	717.07	83	2,096,297.81	1,111,643.91	718.66	718.66
34	2,096,097.97	1,111,433.38	714.36	716.88	84	2,096,275.77	1,111,651.07	717.02	717.02
35	2,096,084.20	1,111,414.57	716.35	716.35	85	2,096,262.31	1,111,658.04	716.44	716.44
36	2,096,223.83	1,111,430.47	718.50	718.50	86	2,096,268.12	1,111,640.39	714.83	717.15
37	2,096,195.96	1,111,450.88	717.30	718.75	87	2,096,285.68	1,111,627.13	715.27	718.69
38	2,096,172.00	1,111,468.42	716.36	718.32	88	2,096,146.07	1,111,378.90	715.97	715.97
39	2,096,166.24	1,111,472.63	715.17	718.10	89	2,096,112.79	1,111,398.99	715.34	716.04
40	2,096,152.61	1,111,482.61	714.83	717.63	90	2,096,092.07	1,111,425.31	713.69	716.75
41	2,096,140.51	1,111,491.48	714.90	717.40	91	2,096,183.00	1,111,413.27	717.30	718.09
42	2,096,216.22	1,111,457.03	718.93	718.93	92	2,096,201.74	1,111,412.28	716.93	718.10
43	2,096,200.34	1,111,478.66	715.65	719.03	93	2,096,199.09	1,111,406.21	717.83	718.20
44	2,096,185.13	1,111,489.79	715.27	718.45	94	2,096,163.16	1,111,383.91	717.49	716.34
45	2,096,166.58	1,111,523.37	714.81	717.76					
46	2,096,155.28	1,111,511.65	714.72	717.38					
47	2,096,228.03	1,111,489.36	718.32	718.32					
48	2,096,215.10	1,111,498.83	715.65	718.63					
49	2,096,199.90	1,111,509.96	715.27	718.14					
50	2,096,170.05	1,111,531.82	714.53	717.31					

LEGEND

- X- EXISTING FENCE
- - - EXISTING STORM SEWER
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM SEWER INLET
- - - PROPOSED STORM SEWER
- X-X- PROPOSED FENCE
- ⊙ PROPOSED STORM SEWER STRUCTURE
- ⊙ WATER VALVE
- ⊞ TELEPHONE BOX
- ELECTRICAL BOX
- N NORTHING
- E EASTING
- 600.00 PROPOSED ELEVATION
- 599.00 EXISTING ELEVATION
- M.E. MEET EXISTING

NOTE:
FOR STAKING PLAN NOTES, SEE SHEET 15



01/23/2006, 01:59 PM I:\04\05\095183104\TXD_REV\Civil\Sheet17 Staking Plan-Align TO.dgn

No.	Drawing Issue Description	Date	By

Date: **JANUARY 27, 2006**
Sheet Title:

STAKING PLAN PROPOSED DRIVEWAY

831-04TXD

Project Number	
AAP	11/15/05
Layout By	Date
AAP	11/15/05
Designed By	Date
KLJ/RMH	01/23/06
Reviewed By	Date
KLK	AAP
Drawn By	Sheet No.



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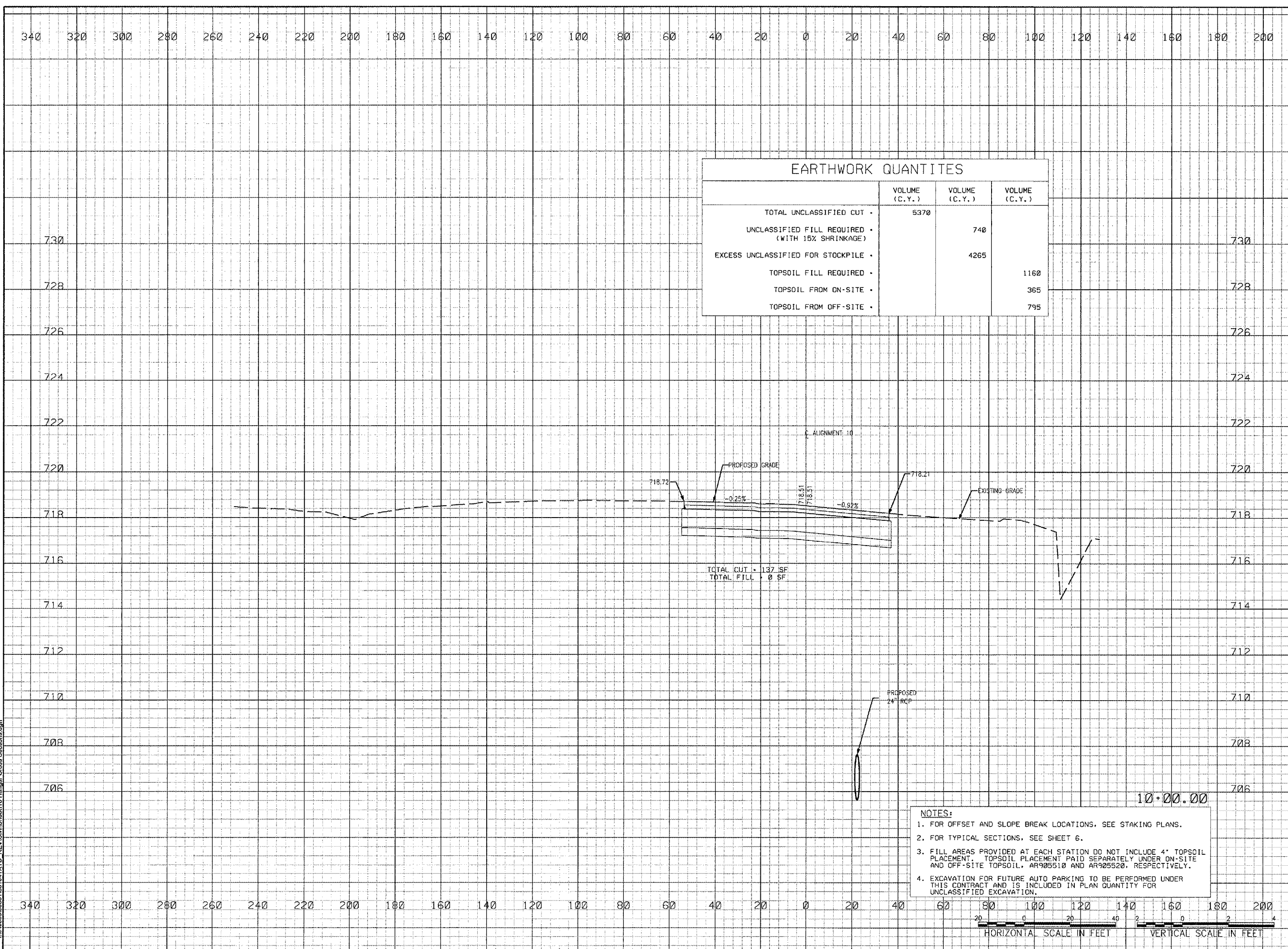
Waukegan Regional Airport
Waukegan Regional Port District

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Waukegan, Illinois 60087
Phone: 847.244.0055
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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
AUTO ACCESS

IDA PROJECT NO. UGN-3499



EARTHWORK QUANTITIES		
	VOLUME (C.Y.)	VOLUME (C.Y.)
TOTAL UNCLASSIFIED CUT •	5370	
UNCLASSIFIED FILL REQUIRED • (WITH 15% SHRINKAGE)		740
EXCESS UNCLASSIFIED FOR STOCKPILE •		4265
TOPSOIL FILL REQUIRED •		1160
TOPSOIL FROM ON-SITE •		365
TOPSOIL FROM OFF-SITE •		795

TOTAL CUT • 137 SF
TOTAL FILL • 0 SF

- NOTES:
- FOR OFFSET AND SLOPE BREAK LOCATIONS, SEE STAKING PLANS.
 - FOR TYPICAL SECTIONS, SEE SHEET 6.
 - FILL AREAS PROVIDED AT EACH STATION DO NOT INCLUDE 4" TOPSOIL PLACEMENT. TOPSOIL PLACEMENT PAID SEPARATELY UNDER ON-SITE AND OFF-SITE TOPSOIL. AR905510 AND AR905520, RESPECTIVELY.
 - EXCAVATION FOR FUTURE AUTO PARKING TO BE PERFORMED UNDER THIS CONTRACT AND IS INCLUDED IN PLAN QUANTITY FOR UNCLASSIFIED EXCAVATION.



No.	Drawing Issue Description	Date	By

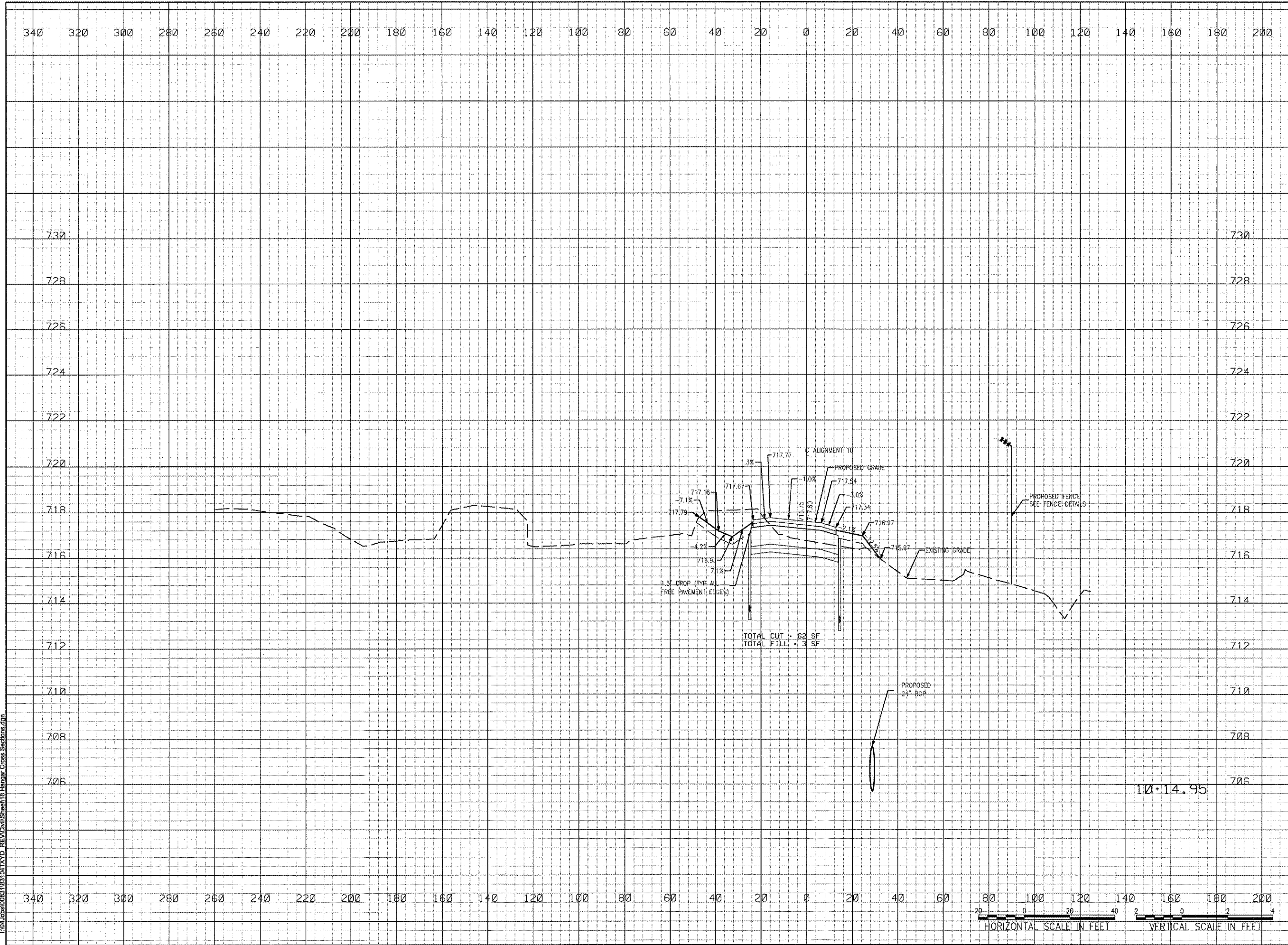
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JANUARY 27, 2006
Sheet Title

HANGAR PAVEMENT
CROSS SECTIONS
STA. 10+00.00

04WAUKEGAN

Project Number	
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Layout By	Date
AAP	11/10/05
Designed By	Date
KLK/RMH	01/23/06
Reviewed By	Date
KLK	AAP
Drawn By	

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CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
AUTO ACCESS

IDA PROJECT NO. UGN-3499

No.	Drawing Issue Description	Date	By

Date
JANUARY 27, 2006
Sheet Title

HANGAR PAVEMENT
CROSS SECTIONS
STA. 10+14.95

04WAUKEGAN	
Project Number	
AAP	11/10/05
Layout By	Date
AAP	11/10/05
Designed By	Date
KLK/RMH	01/23/06
Reviewed By	Date
KLK	AAP
Drawn By	

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Sheet No.

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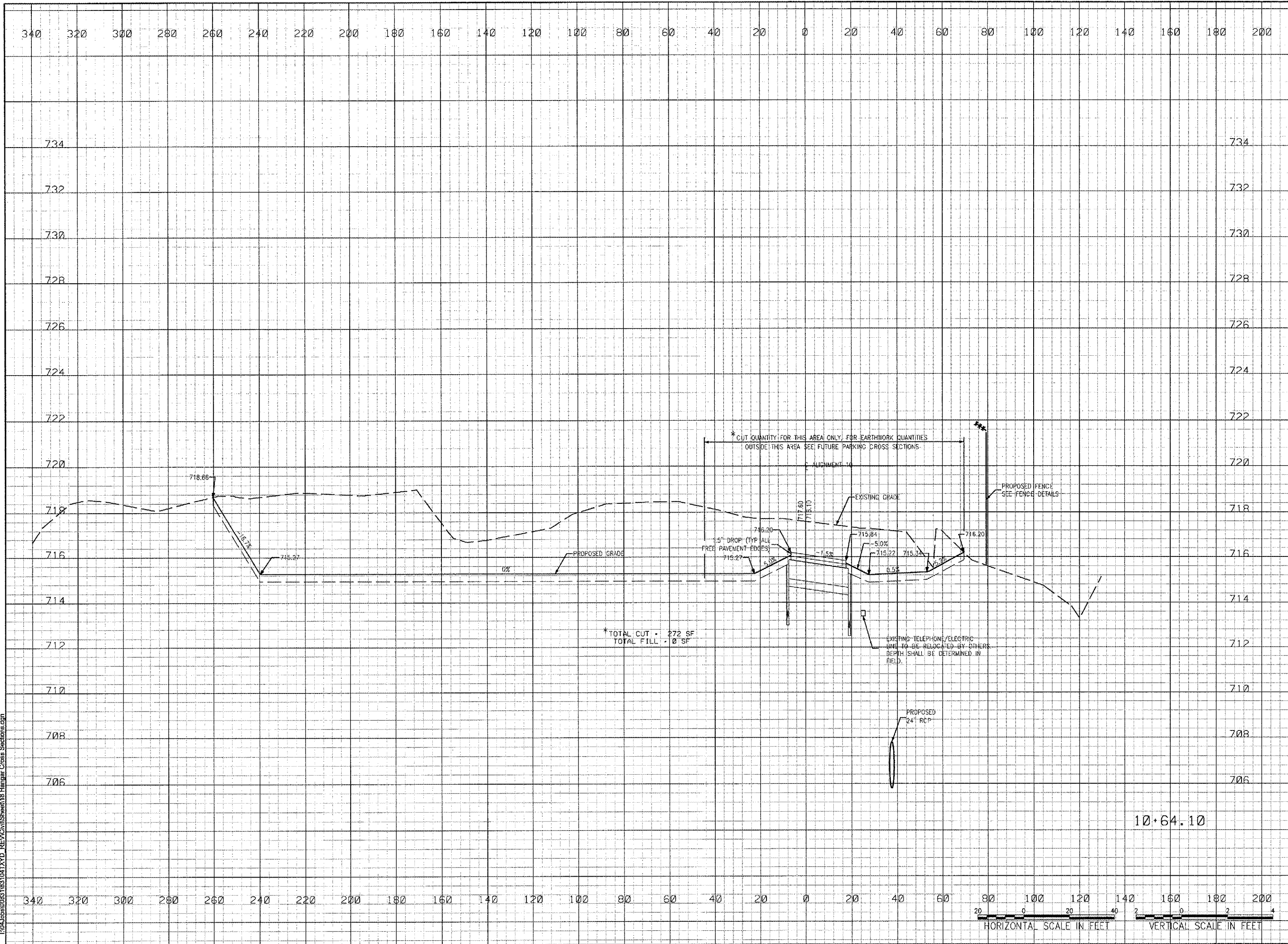
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WAUKEGAN REGIONAL AIRPORT

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* TOTAL CUT - 272 SF
TOTAL FILL - 0 SF

PROPOSED
24" RCP

EXISTING TELEPHONE/ELECTRIC
LINE TO BE RELOCATED BY OTHERS.
DEPTH SHALL BE DETERMINED IN
FIELD.

* CUT QUANTITY FOR THIS AREA ONLY. FOR EARTHWORK QUANTITIES
OUTSIDE THIS AREA SEE FUTURE PARKING CROSS SECTIONS.

HORIZONTAL SCALE IN FEET

VERTICAL SCALE IN FEET

10+64.10

No.	Drawing Issue Description	Date	By

Date

JANUARY 27, 2006

Sheet Title

HANGAR PAVEMENT
CROSS SECTIONS
STA. 10+64.10

04WAUKEGAN	
Project Number	
AAP	11/10/05
Layout By	Date
AAP	11/10/05
Designed By	Date
KLK/RMH	01/23/06
Reviewed By	Date
KLK	AAP
Drawn By	

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Sheet No.

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WAUKEGAN REGIONAL AIRPORT

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APRONS, TAXIWAYS AND
AUTO ACCESS

IDA PROJECT NO. UGN-3499

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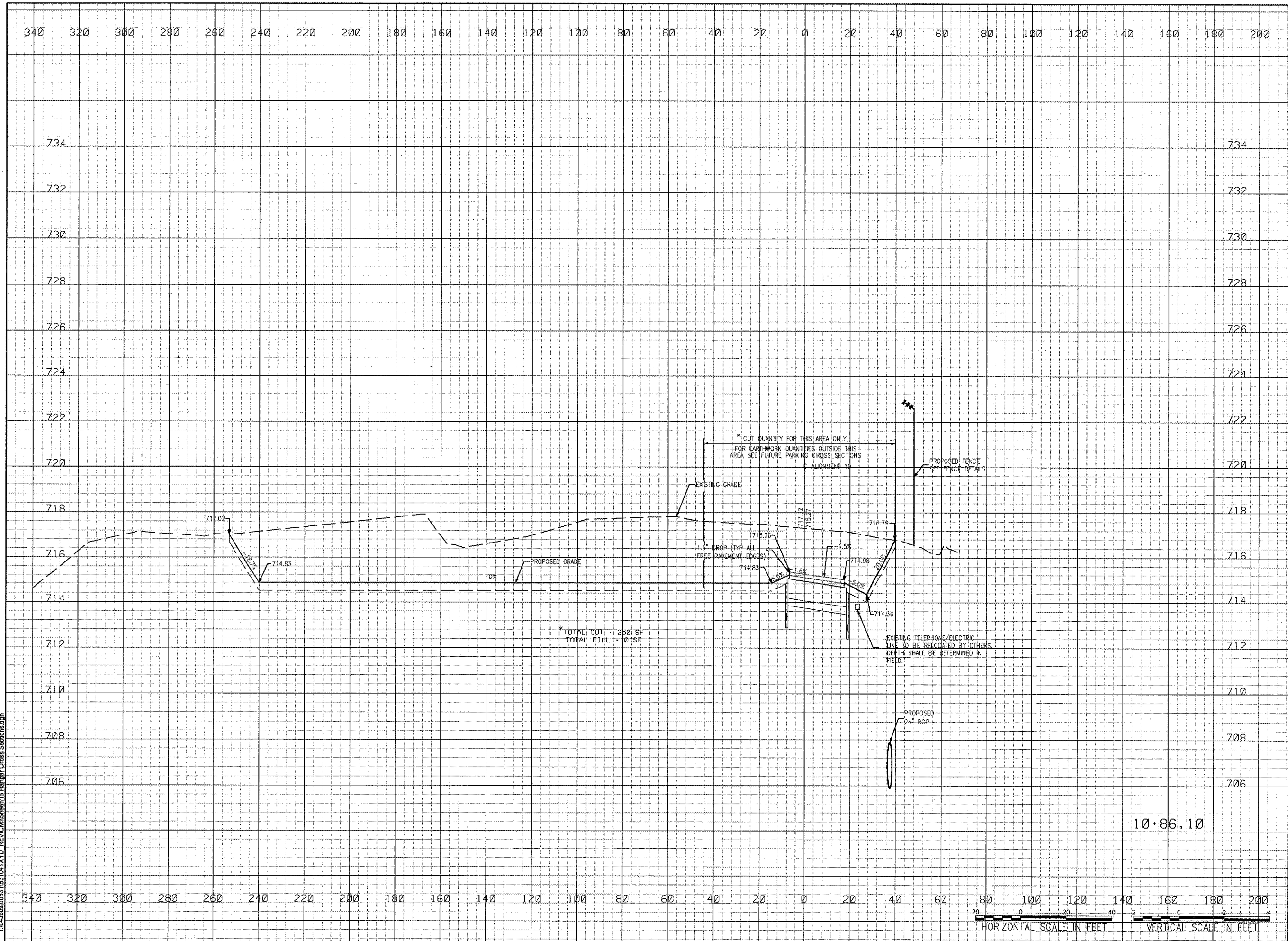
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JANUARY 27, 2006

Sheet Title

HANGAR PAVEMENT
CROSS SECTIONS
STA. 10+86.10

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Layout By	Date
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Designed By	Date
KLK/RMH	01/23/06
Reviewed By	Date
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Drawn By	Sheet No.



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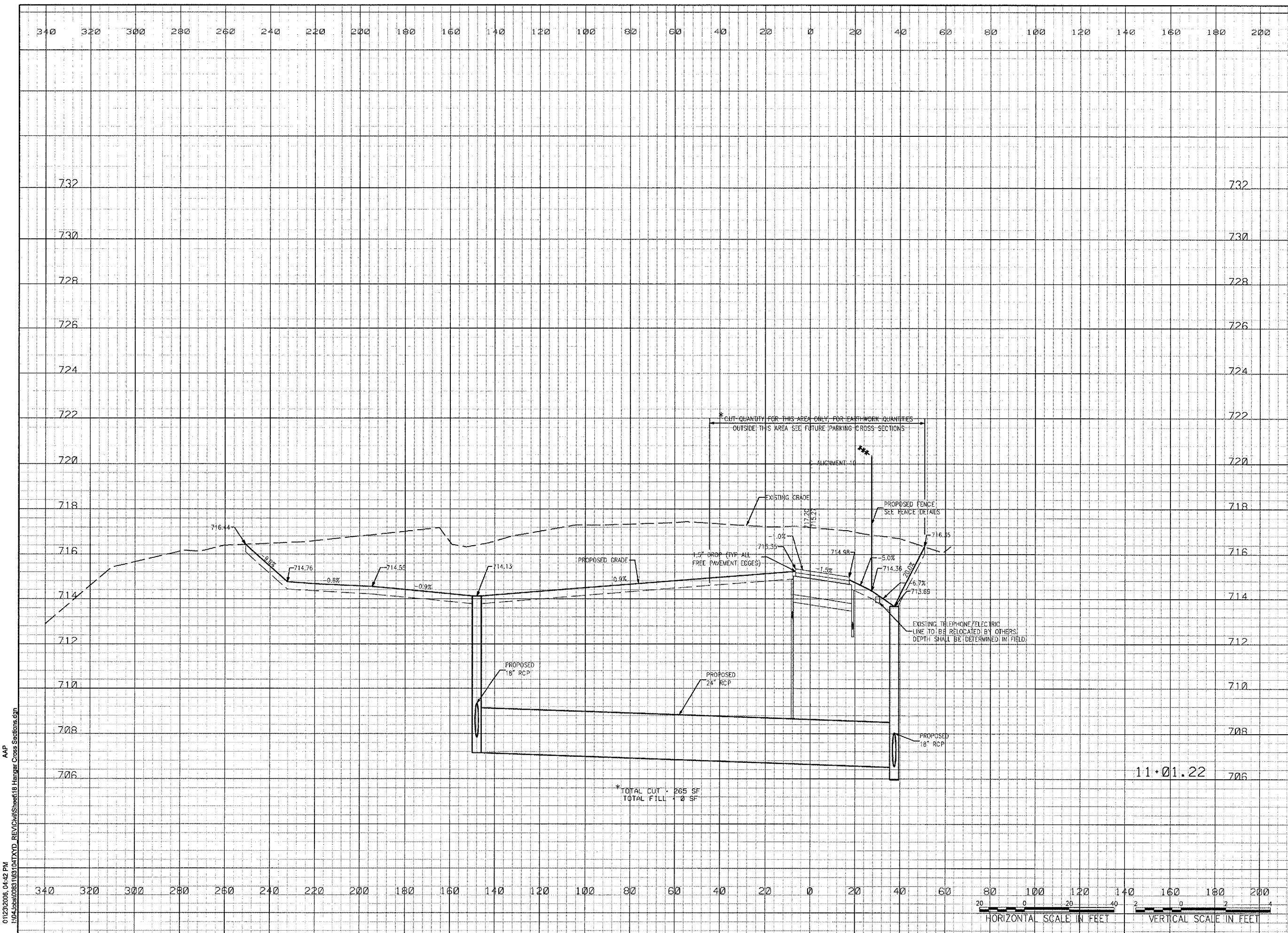
Waukegan Regional Airport
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CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
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Date
JANUARY 27, 2006

Sheet Title
HANGAR PAVEMENT
CROSS SECTIONS
STA. 11+01.22

04WAUKEGAN			
Project Number			
AAP	11/10/05	Date	
Layout By	Date		
AAP	11/10/05	Date	
Designed By	Date		
KLK/RMH	01/23/06	Date	
Reviewed By	Date		
KLK	AAP	Date	
Drawn By	Date		

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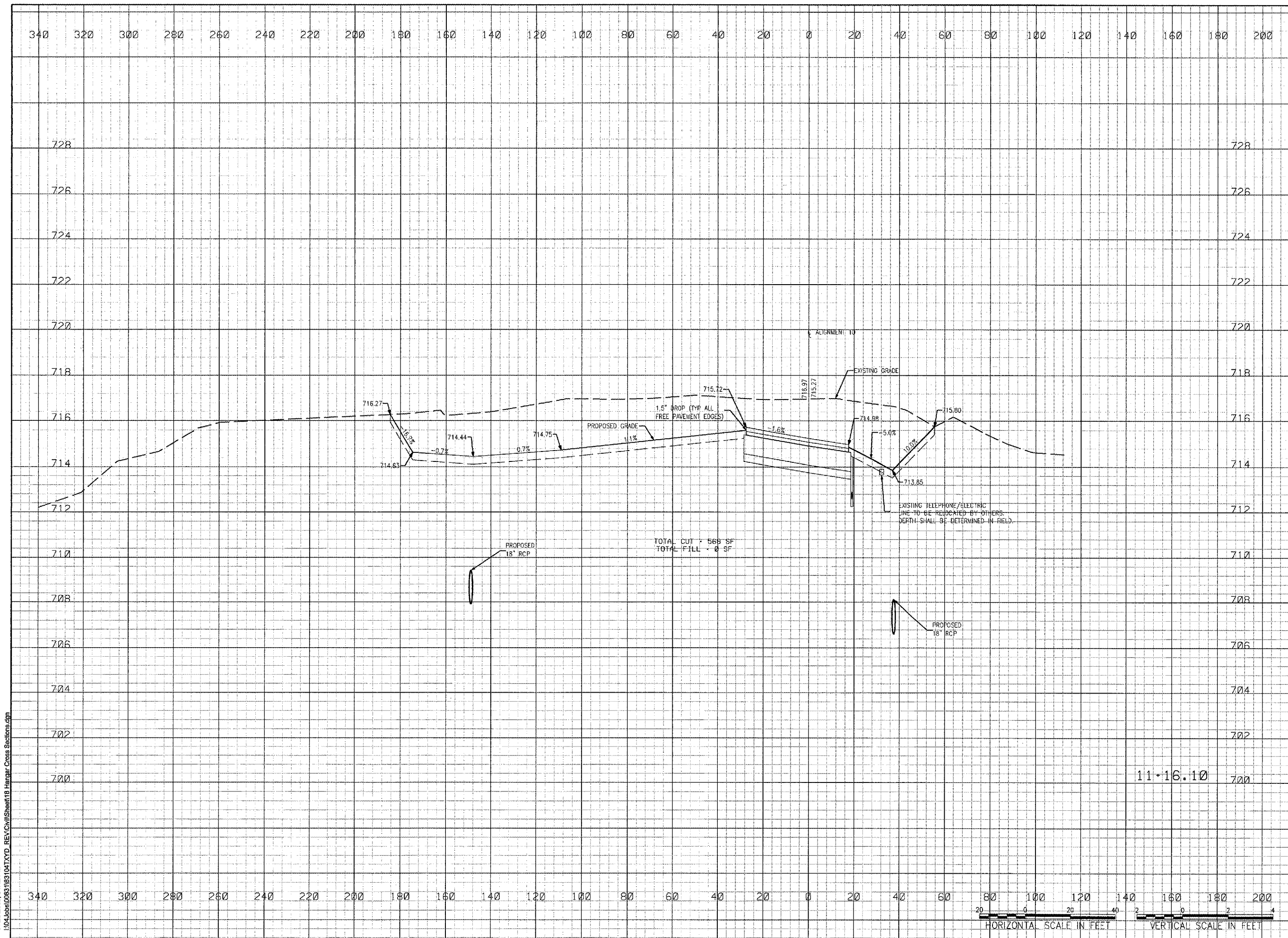
Waukegan Regional Airport
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CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
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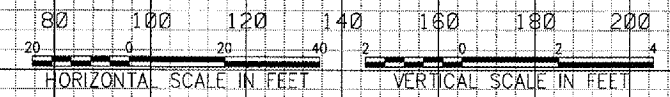
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Date
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Sheet Title

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CROSS SECTIONS
STA. 11+16.10

04WAUKEGAN

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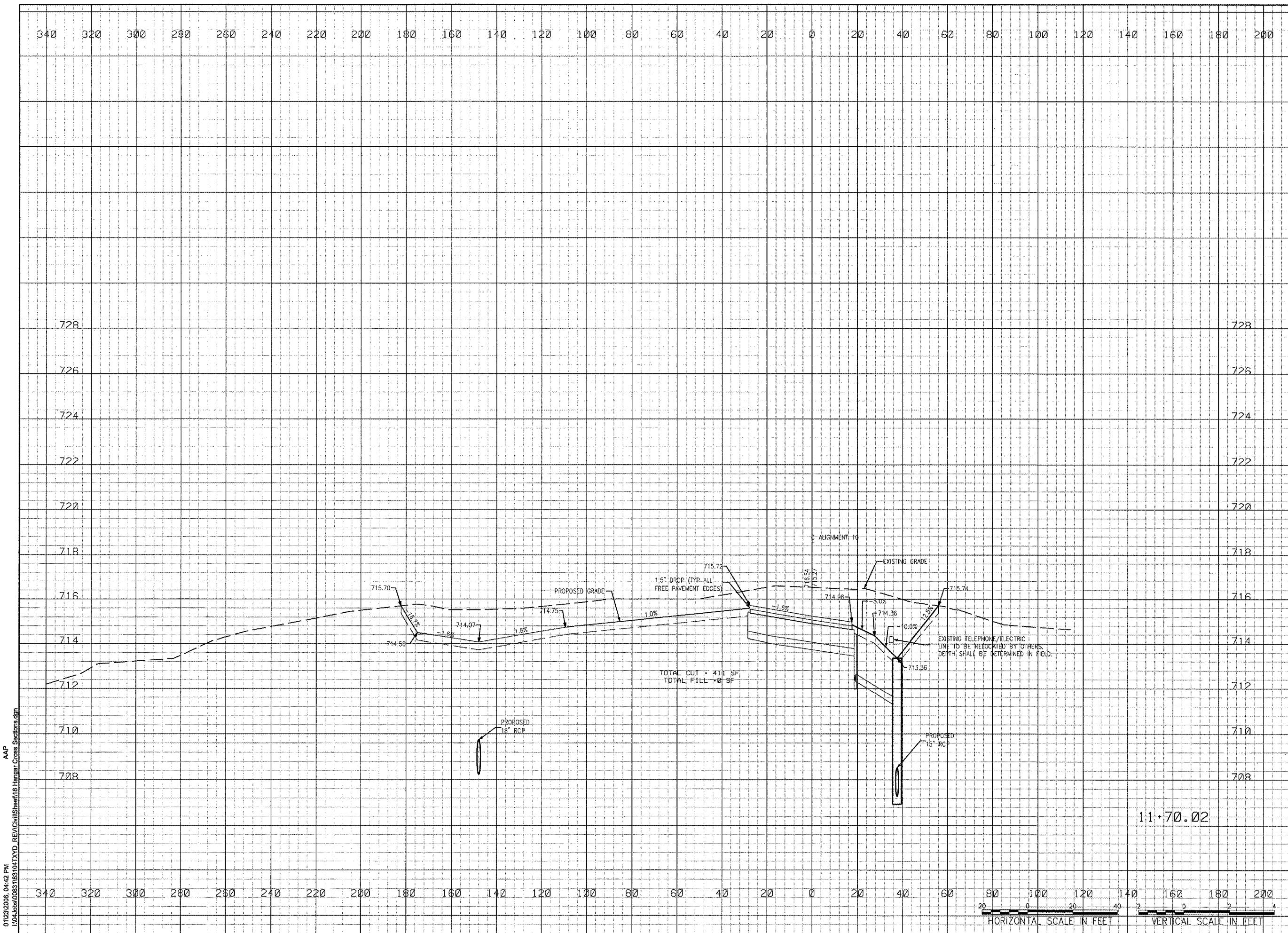
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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
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 Sheet Title: HANGAR PAVEMENT CROSS SECTIONS STA. 11+70.02

HANGAR PAVEMENT
 CROSS SECTIONS
 STA. 11+70.02

04WAUKEGAN

Project Number	
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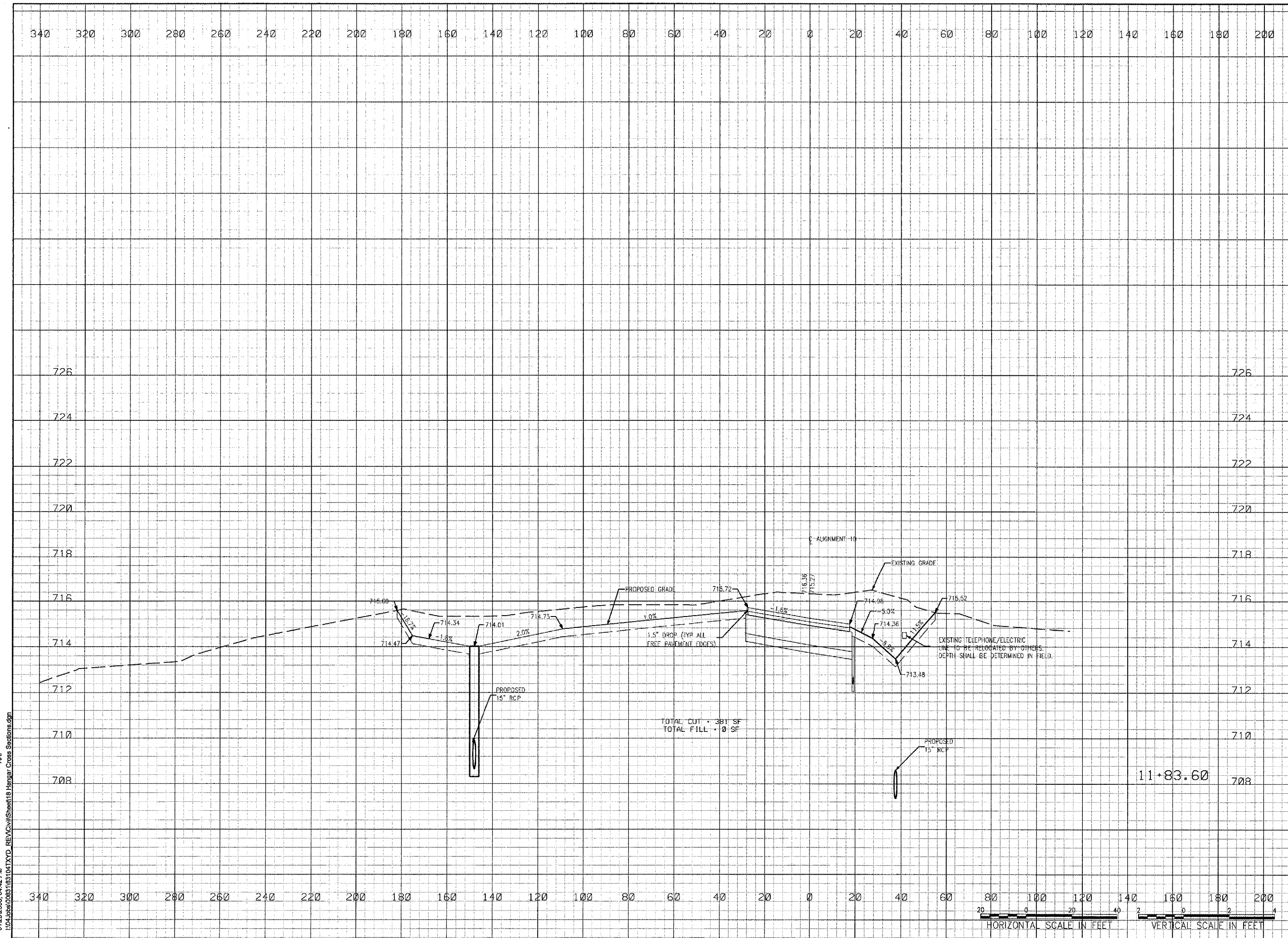
Waukegan Regional Airport
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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
AUTO ACCESS

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Date
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HANGAR PAVEMENT
CROSS SECTIONS
STA. 11+83.60

04WAUKEGAN

Project Number	
AAP	11/10/05
Layout By	Date
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Designed By	Date
KLK/RMH	01/23/06
Reviewed By	Date
KLK	AAP
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CONSTRUCT NEW T-HANGAR
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AUTO ACCESS

IDA PROJECT NO. UGN-3499

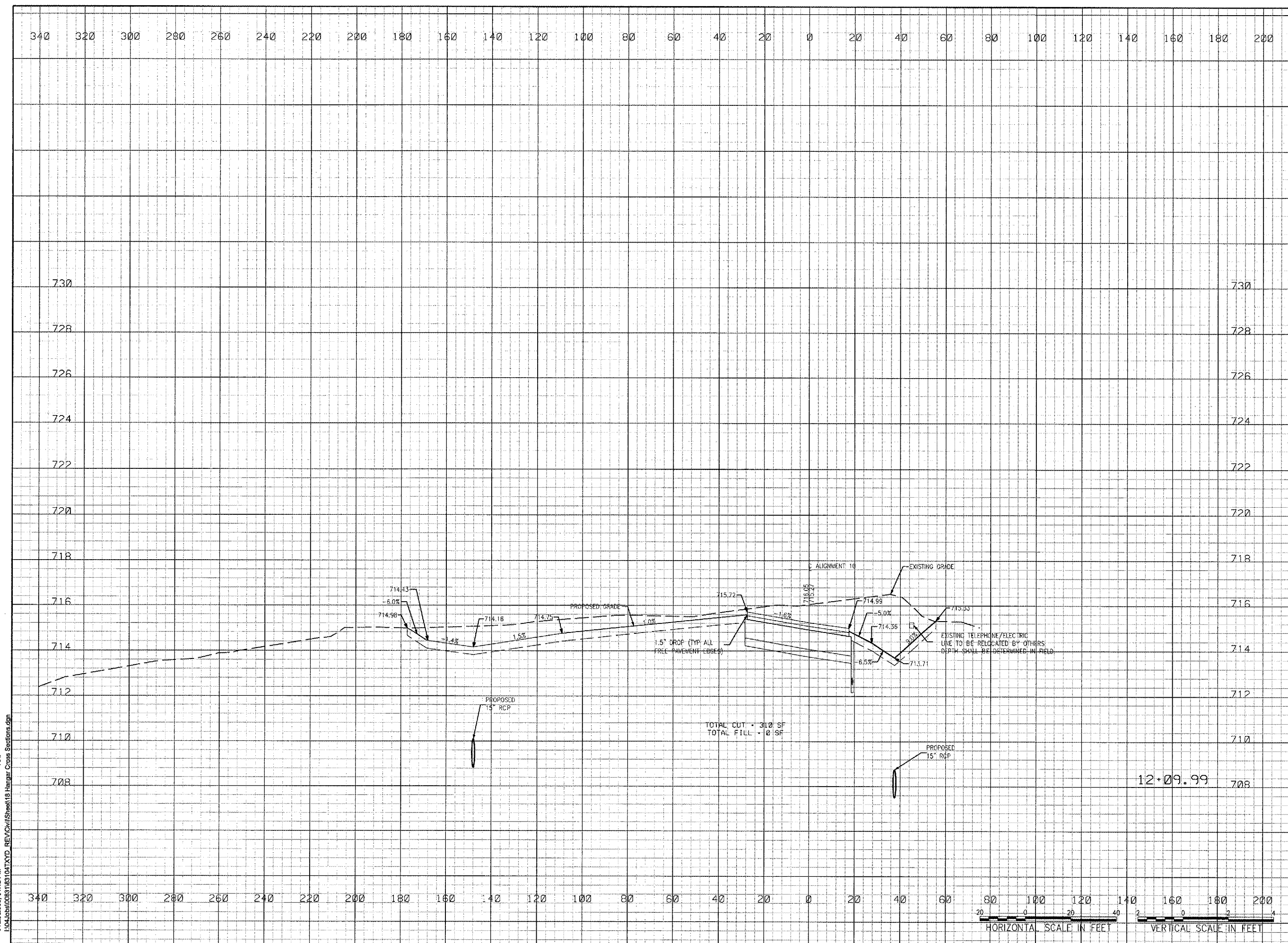
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Date
JANUARY 27, 2006

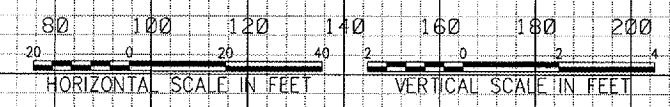
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HANGAR PAVEMENT
CROSS SECTIONS
STA. 12+09.99

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Layout By	Date
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Designed By	Date
KLK/RMH	01/23/06
Reviewed By	Date
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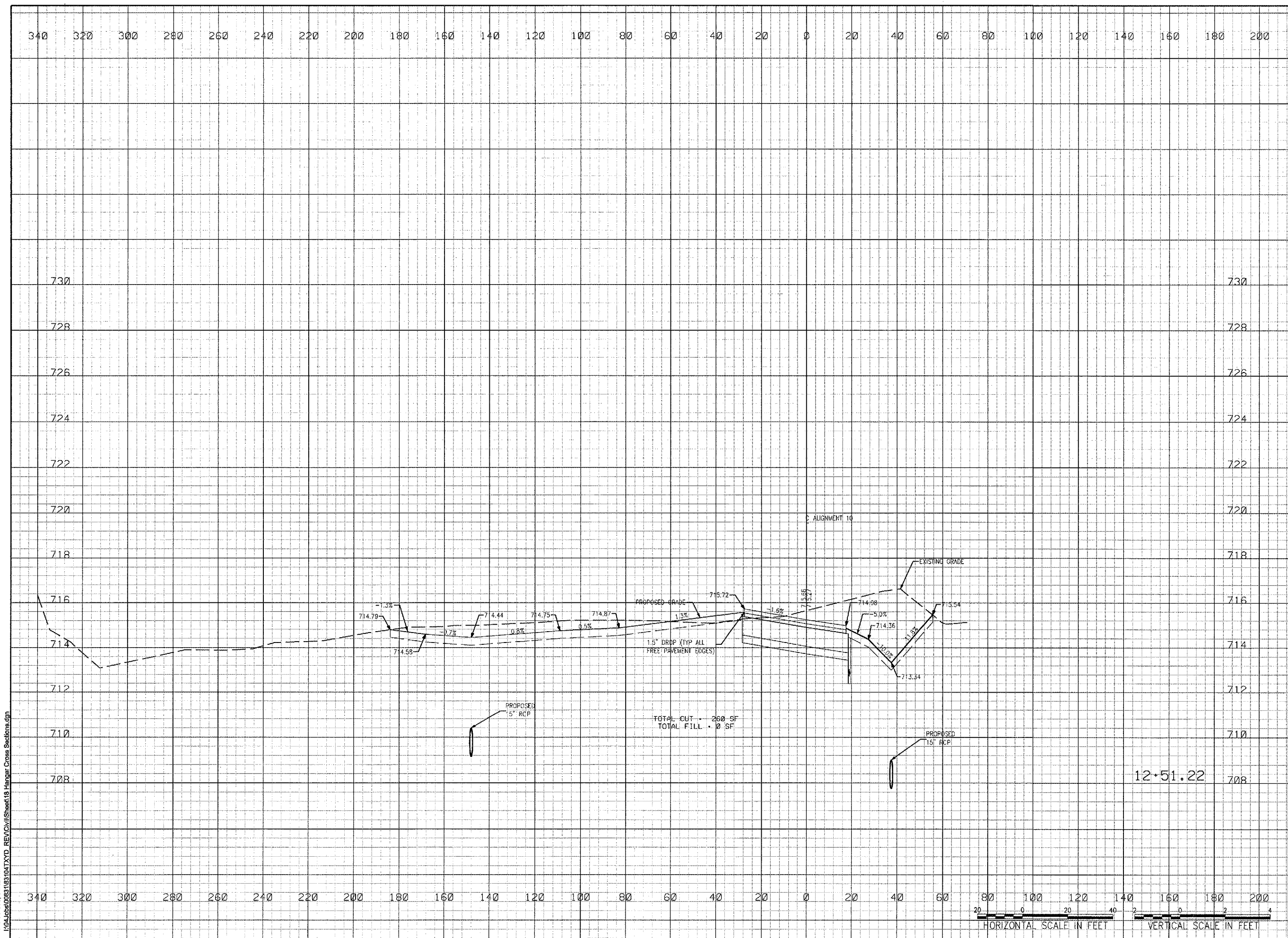
Waukegan Regional Airport
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CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
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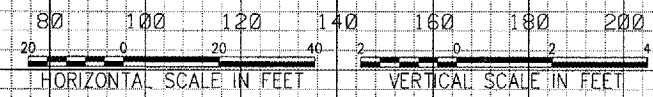
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JANUARY 27, 2006

Sheet Title

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CROSS SECTIONS
STA. 12+51.22

04WAUKEGAN	
Project Number	
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KLK/RMH	01/23/06
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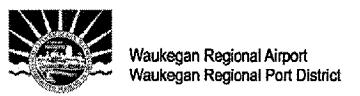
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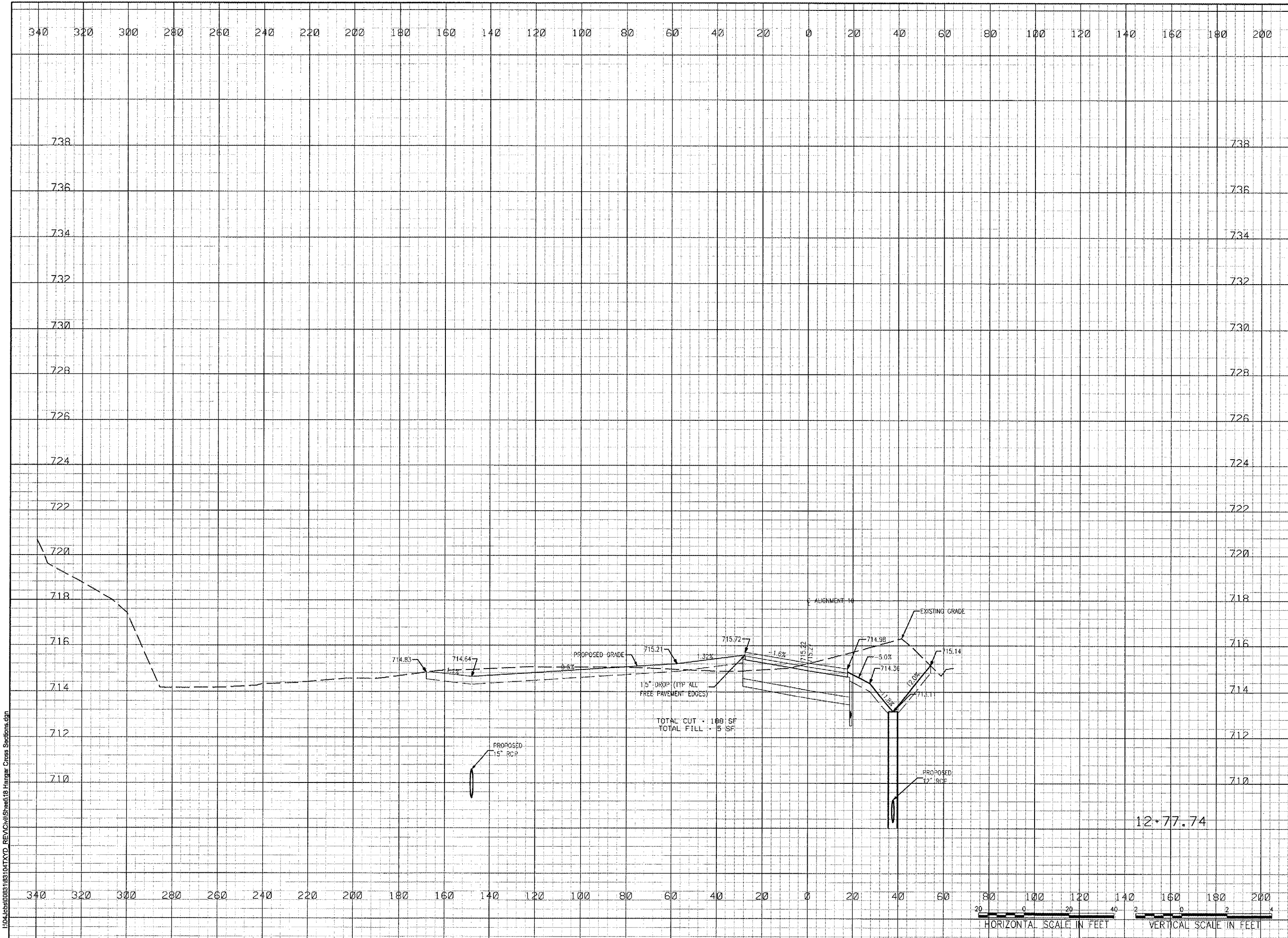


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HANGAR PAVEMENT
CROSS SECTIONS
STA. 12+77.74

04WAUKEGAN	
Project Number	
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Designed By	Date
KLK/RMH	01/23/06
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No.	Drawing Issue Description	Date	By

Date
JANUARY 27, 2006
Sheet Title

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CROSS SECTIONS
STA. 13+08.82

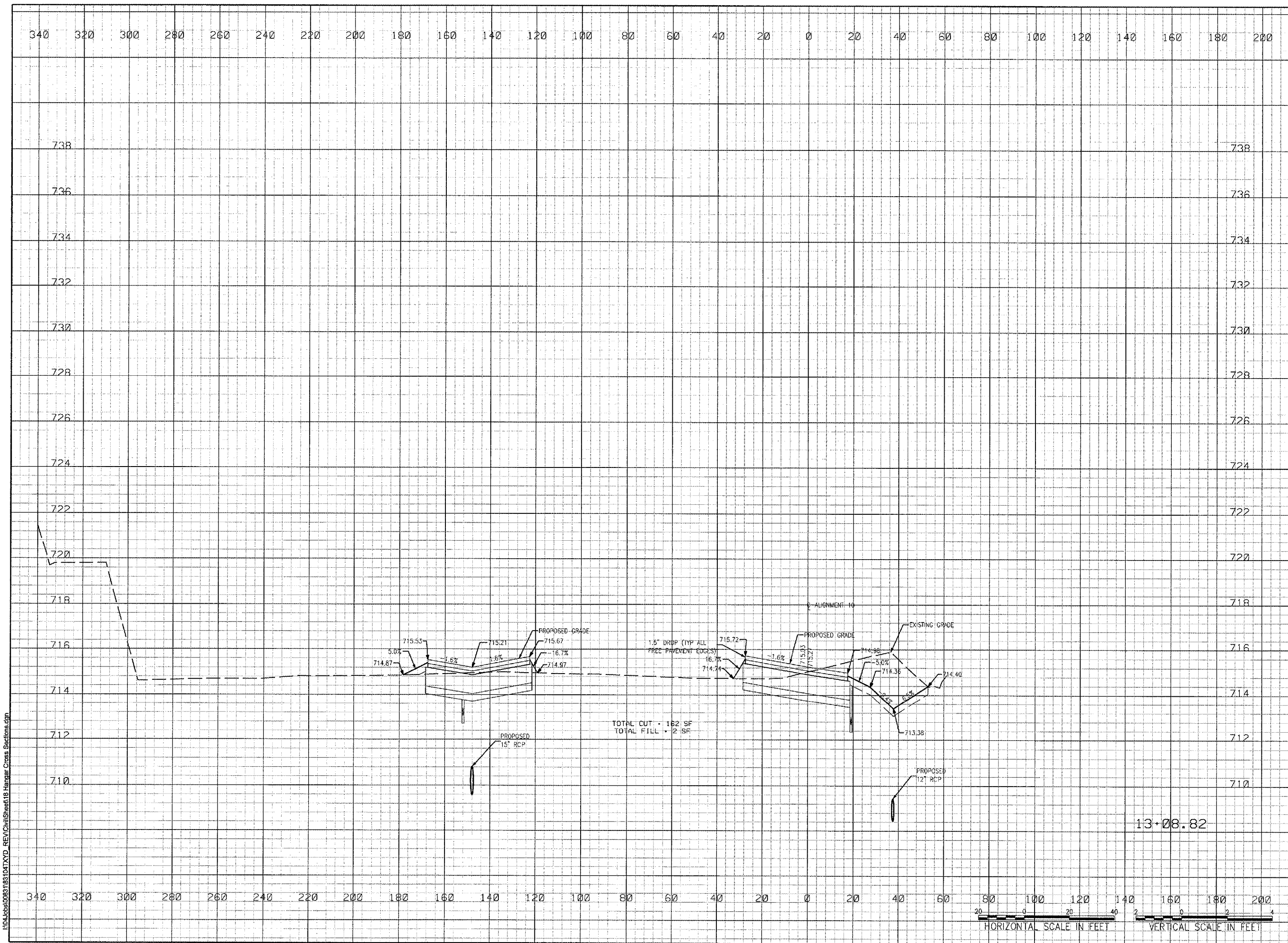
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Project Number

AAP 11/10/05
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Designed By Date

KLK/RMH 01/23/06
Reviewed By Date

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Drawn By



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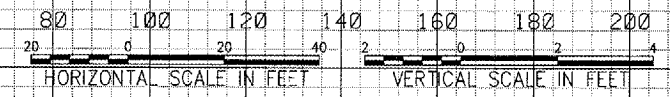
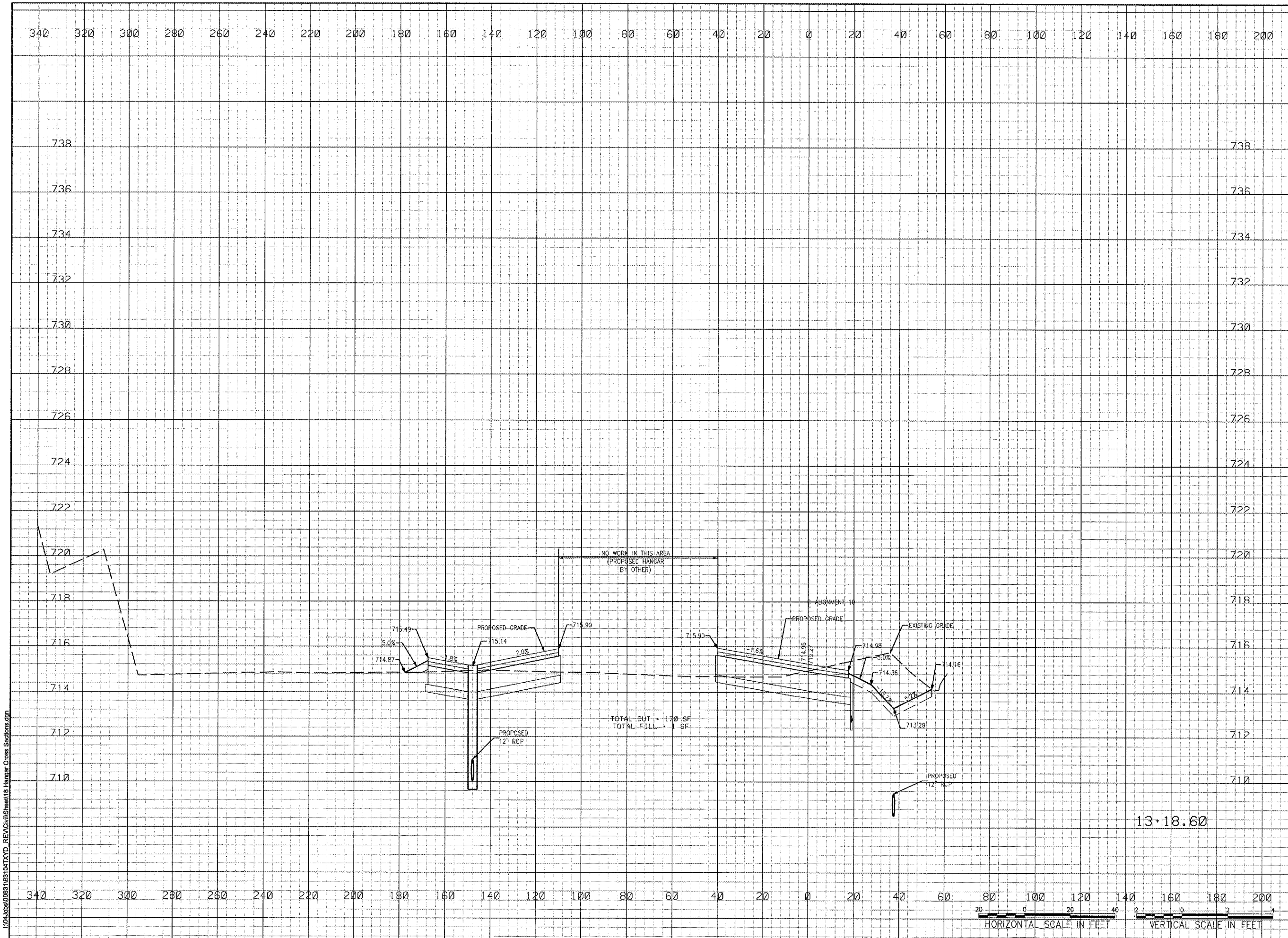
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JANUARY 27, 2006
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CROSS SECTIONS
STA. 13+18.60

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Project Number
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Layout By Date
AAP 11/10/05
Designed By Date
KLK/RMH 01/23/06
Reviewed By Date
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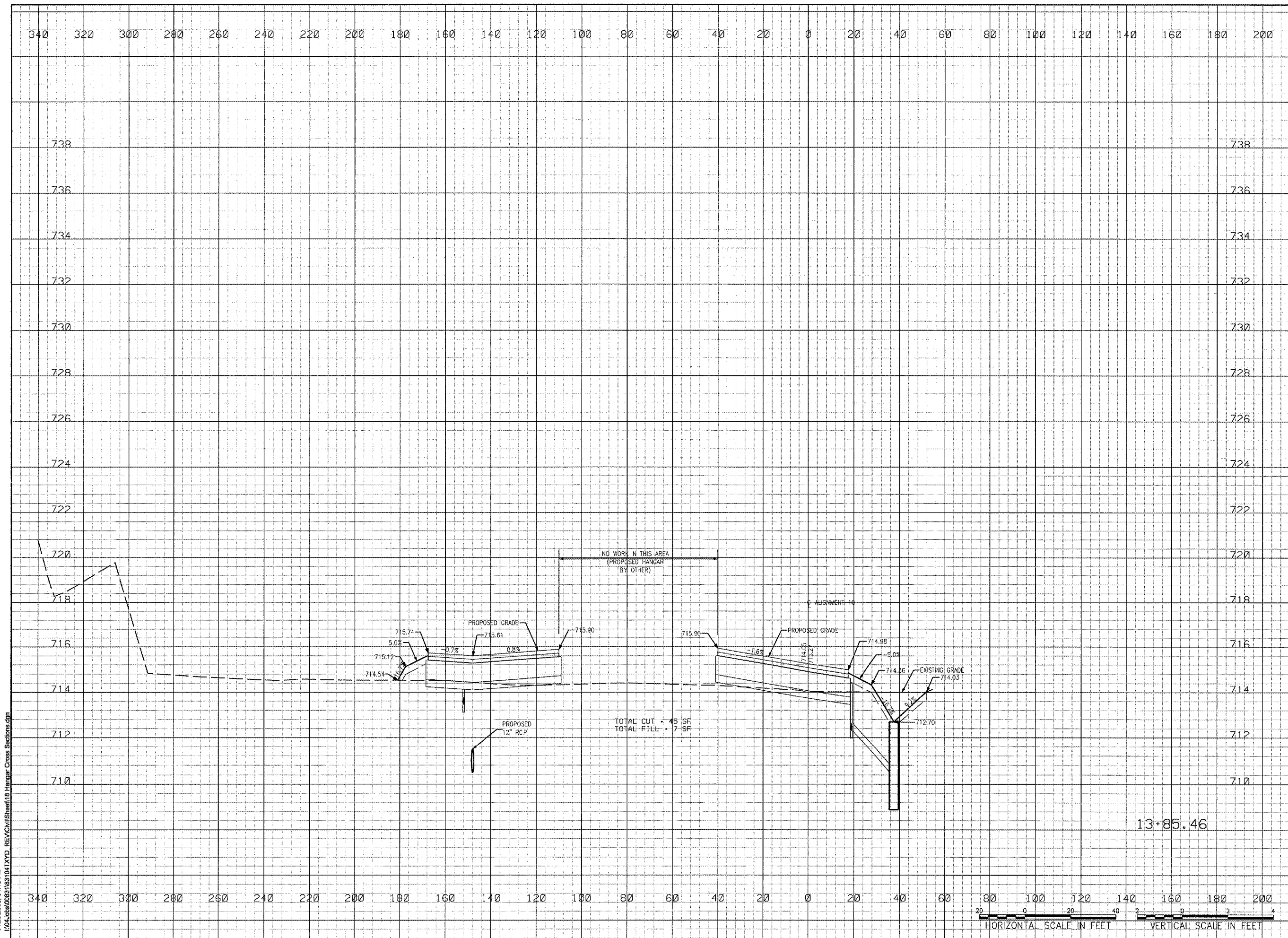
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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
AUTO ACCESS

IDA PROJECT NO. UGN-3499



No.	Drawing Issue Description	Date	By

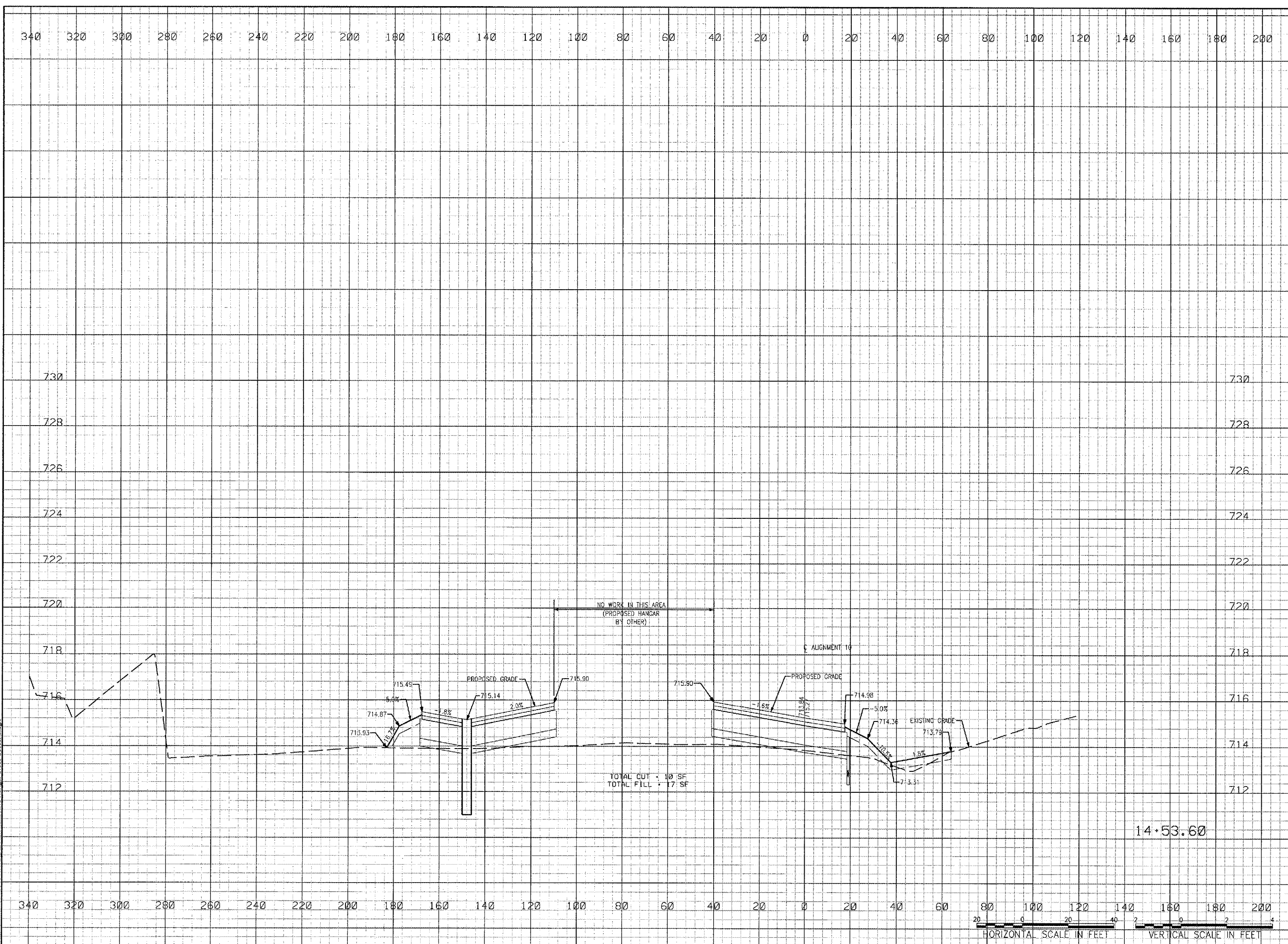
Date: JANUARY 27, 2006
 Sheet Title: HANGAR PAVEMENT CROSS SECTIONS STA. 13+85.46

HANGAR PAVEMENT
 CROSS SECTIONS
 STA. 13+85.46

04WAUKEGAN	
Project Number	
AAP	11/10/05
Layout By	Date
AAP	11/10/05
Designed By	Date
KLK/RMH	01/23/06
Reviewed By	Date
KLK	AAP
Drawn By	Sheet No.



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 AAP



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 AAP

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WAUKEGAN REGIONAL AIRPORT

**CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
AUTO ACCESS**

IDA PROJECT NO. UGN-3499

No.	Drawing Issue Description	Date	By

Date
 JANUARY 27, 2006
 Sheet Title

**HANGAR PAVEMENT
CROSS SECTIONS
STA. 14+53.60**

04WAUKEGAN

Project Number	
AAP	11/10/05
Layout By	Date
AAP	11/10/05
Designed By	Date
KLK/RMH	01/23/06
Reviewed By	Date
KLK	AAP
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Date
JANUARY 27, 2006

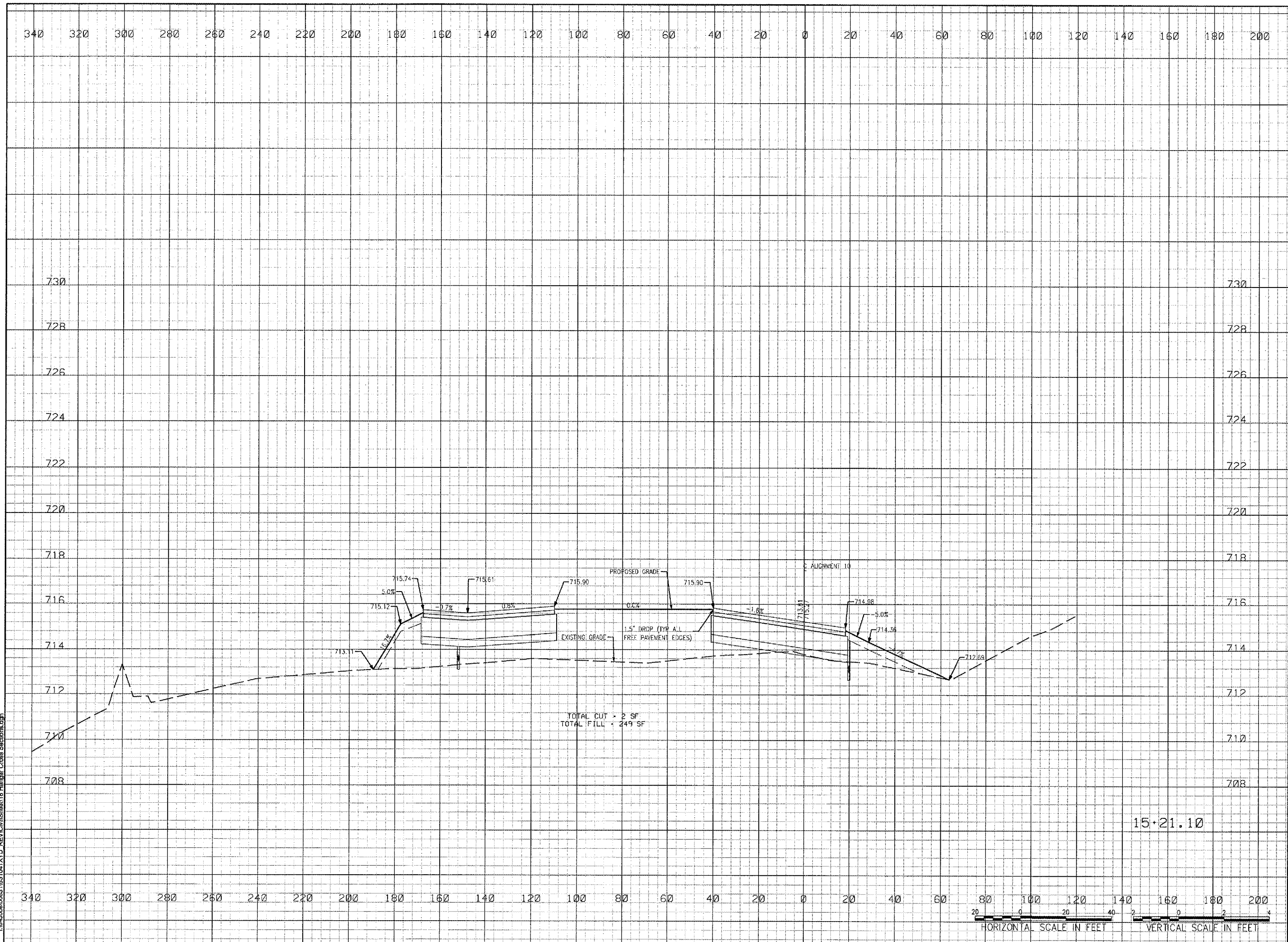
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HANGAR PAVEMENT
CROSS SECTIONS
STA. 15+21.10

04WAUKEGAN
Project Number
AAP 11/10/05
Layout By Date
AAP 11/10/05
Designed By Date
KLK/RMH 01/23/06
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KLK AAP
Drawn By

33

Sheet No.



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AAP

HORIZONTAL SCALE IN FEET
VERTICAL SCALE IN FEET

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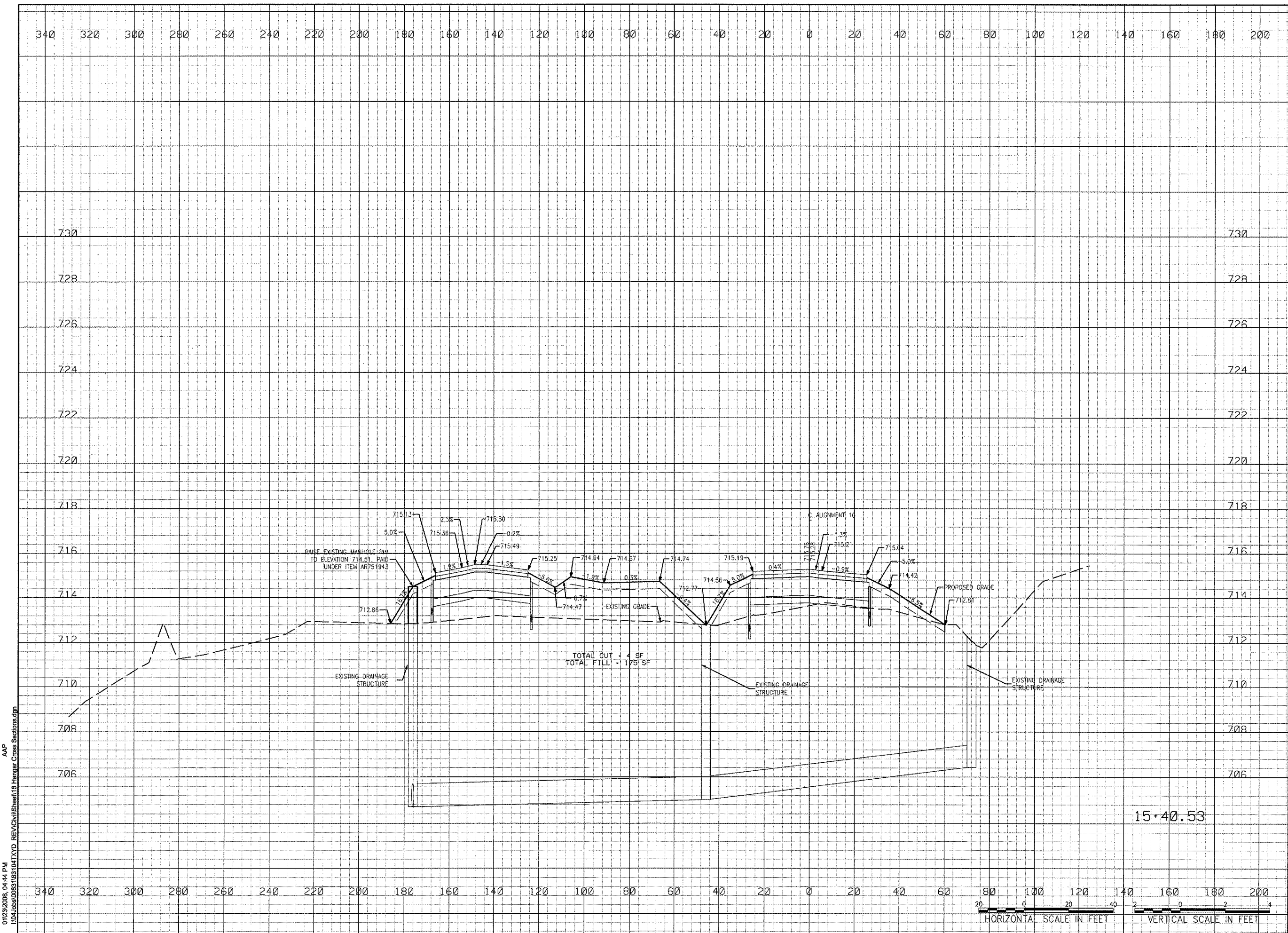
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WAUKEGAN REGIONAL AIRPORT

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APRONS, TAXIWAYS AND
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No.	Drawing Issue Description	Date	By

Date
JANUARY 27, 2006

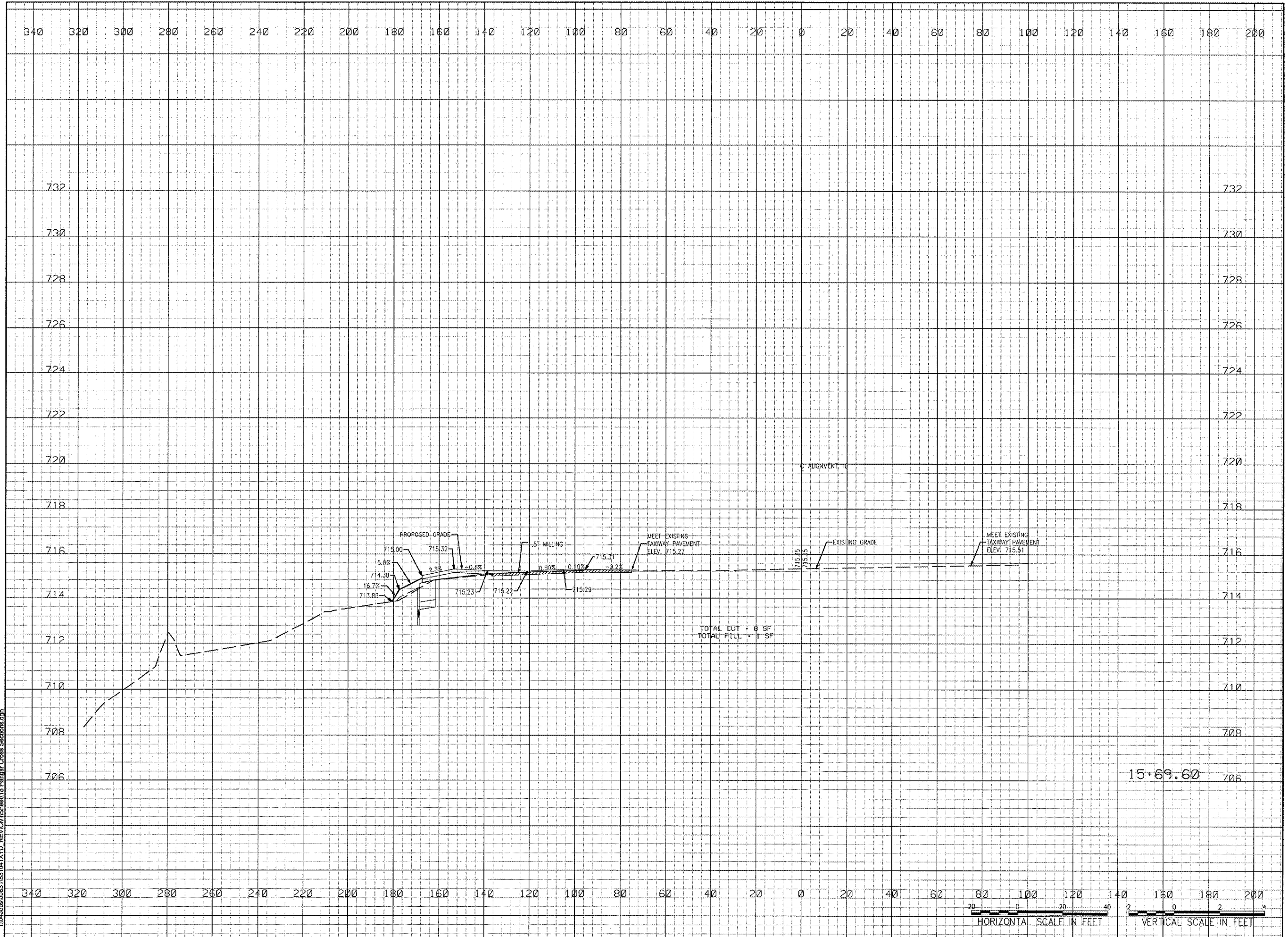
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HANGAR PAVEMENT
CROSS SECTIONS
STA. 15+40.53

04WAUKEGAN	
Project Number	
AAP	11/10/05
Layout By	Date
AAP	11/10/05
Designed By	Date
KLK/RMH	01/23/06
Reviewed By	Date
KLK	AAP
Drawn By	Sheet No.



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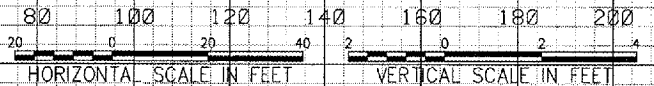
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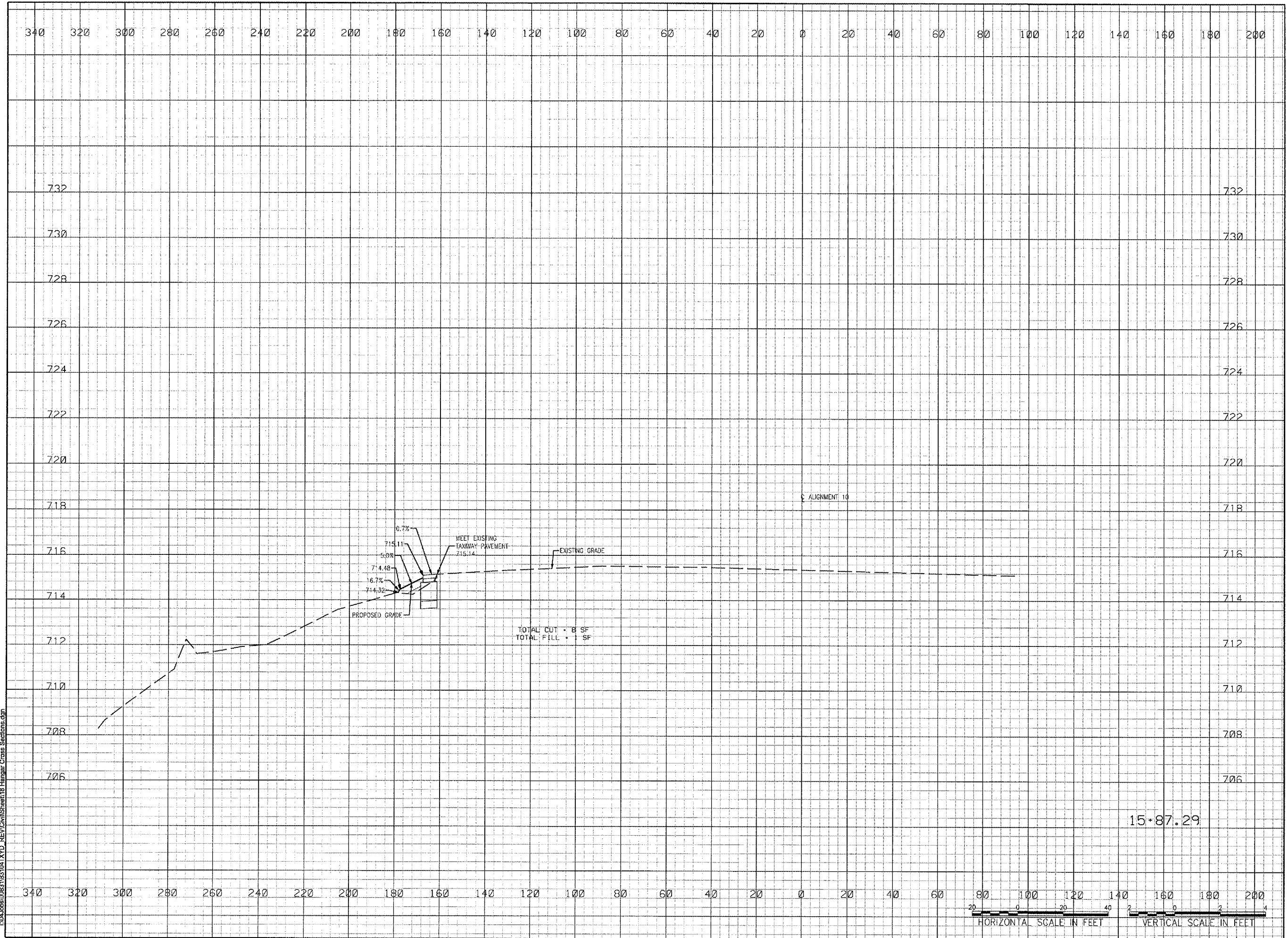
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Sheet Title
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 CROSS SECTIONS
 STA. 15+69.60

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Layout By	Date
AAP	11/10/05
Designed By	Date
KLK/RMH	01/23/06
Reviewed By	Date
KLK	AAP
Drawn By	

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WAUKEGAN REGIONAL AIRPORT

**CONSTRUCT NEW T-HANGAR
 APRONS, TAXIWAYS AND
 AUTO ACCESS**

IDA PROJECT NO. UGN-3499

No.	Drawing Issue Description	Date	By

Date
 JANUARY 27, 2006
 Sheet Title

**HANGAR PAVEMENT
 CROSS SECTIONS
 STA. 15+87.29**

04WAUKEGAN
 Project Number
 AAP 11/10/05
 Layout By Date
 AAP 11/10/05
 Designed By Date
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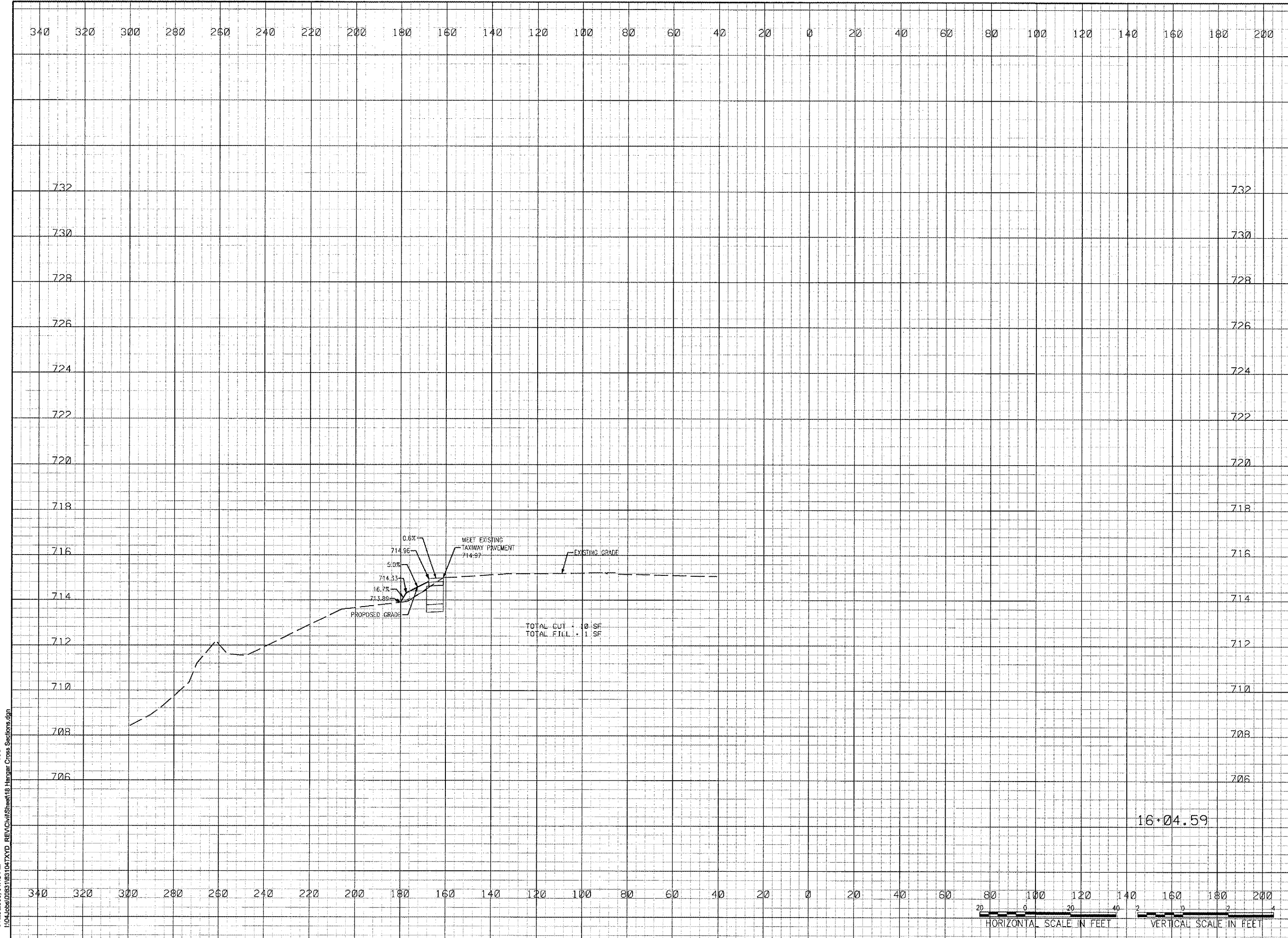
Waukegan Regional Airport
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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
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IDA PROJECT NO. UGN-3499



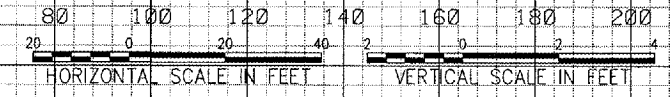
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Date
JANUARY 27, 2006
Sheet Title

HANGAR PAVEMENT
CROSS SECTIONS
STA. 16+04.59

04WAUKEGAN
Project Number
 AAP 11/10/05
 Layout By Date
 AAP 11/10/05
 Designed By Date
 KLK/RMH 01/23/06
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IDA PROJECT NO. UGN-3499

No.	Drawing Issue Description	Date	By

Date

JANUARY 27, 2006

Sheet Title

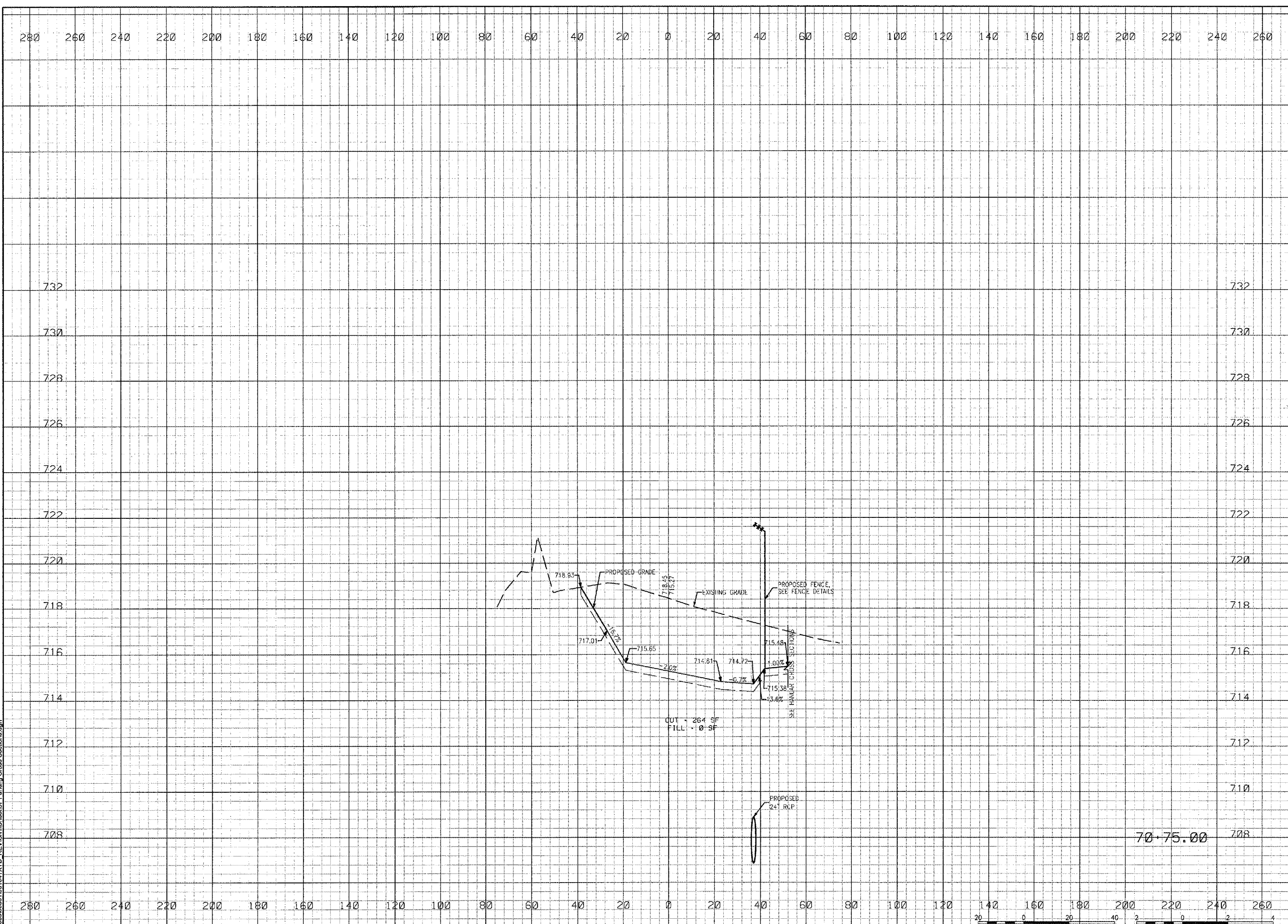
FUTURE PARKING AREA
CROSS SECTIONS
STA. 70+75.00

04WAUKEGAN
Project Number
AAP 11/10/05
Layout By Date
AAP 11/10/05
Designed By Date
KLK/RMH 01/23/06
Reviewed By Date
KLK AAP
Drawn By

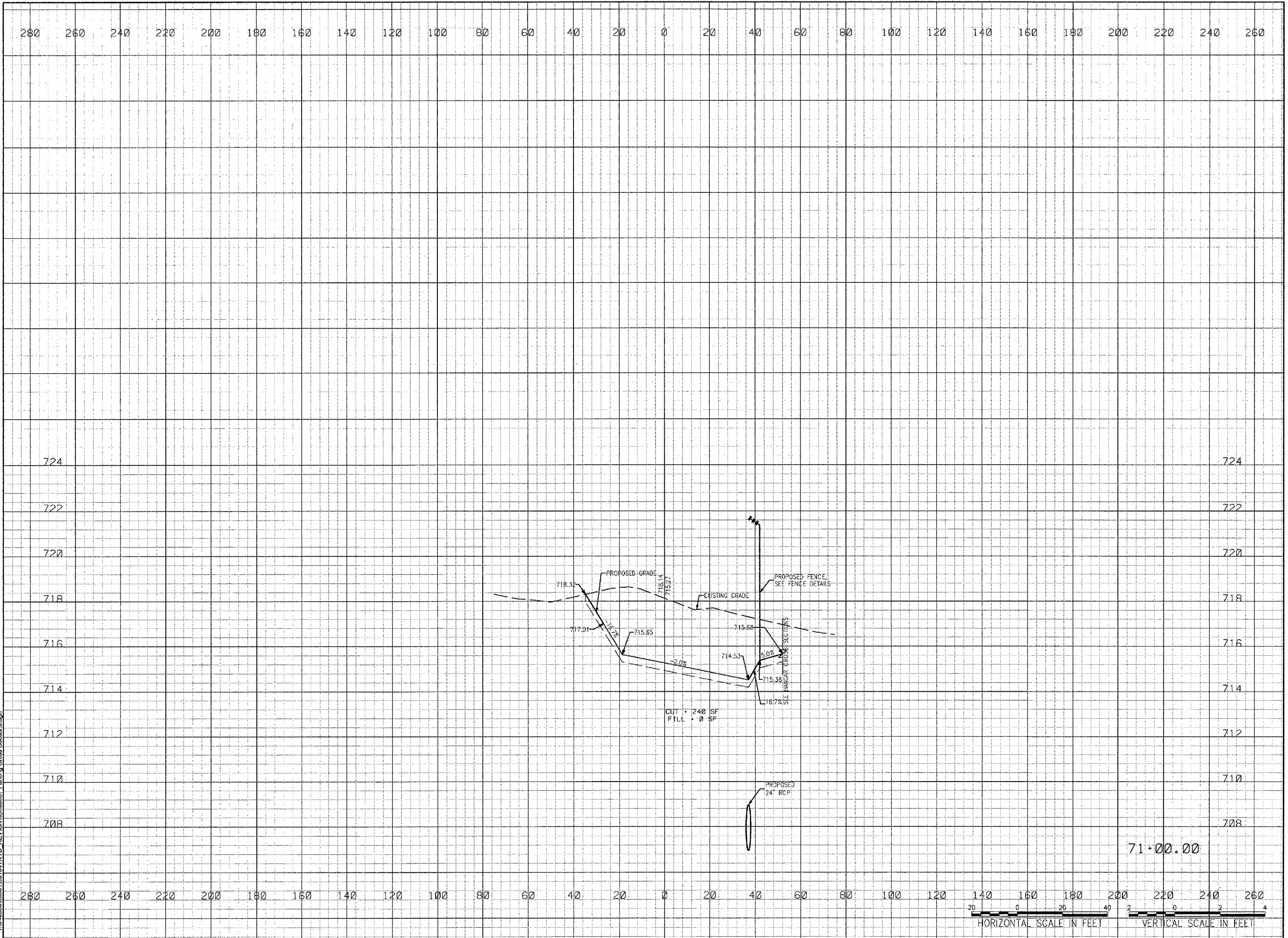
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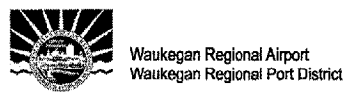
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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
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Date
JANUARY 27, 2006
Sheet Title

FUTURE PARKING AREA
CROSS SECTIONS
STA. 71+00.00

04WAUKEGAN	
Project Number	
AAP	11/10/05
Layout By	Date
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Designed By	Date
KLK/RMH	01/23/06
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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
AUTO ACCESS

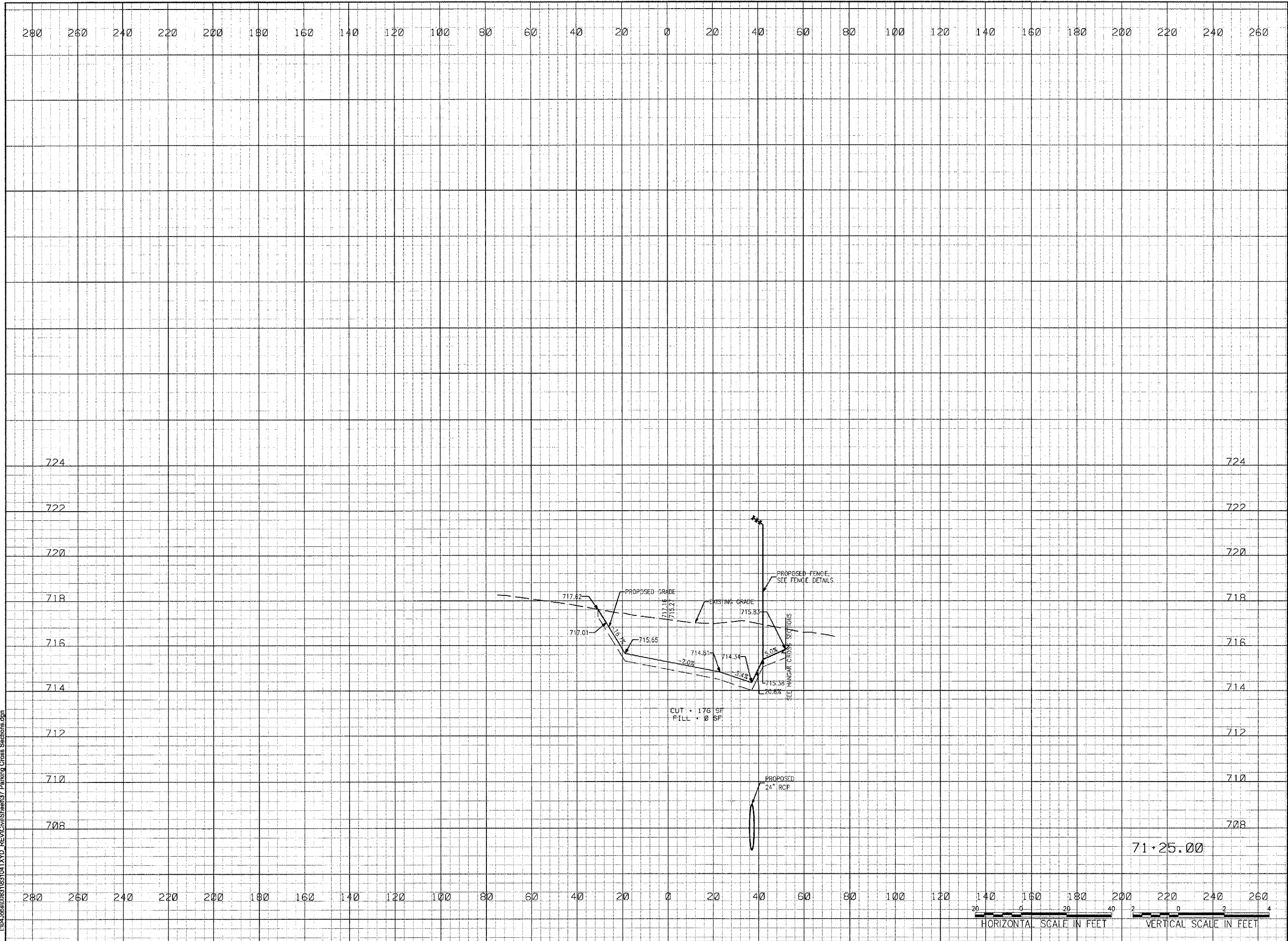
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No.	Drawing Issue Description	Date	By

Date
JANUARY 27, 2006

Sheet Title
FUTURE PARKING AREA
CROSS SECTIONS
STA. 71+25.00

04WAUKEGAN
Project Number
AAP 11/10/05
Layout By Date
AAP 11/10/05
Designed By Date
HLK/RMH 01/23/06
Reviewed By Date
KLK AAP
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CONSTRUCT NEW T-HANGAR
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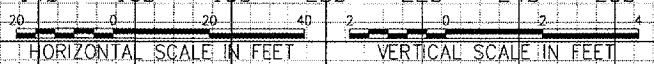
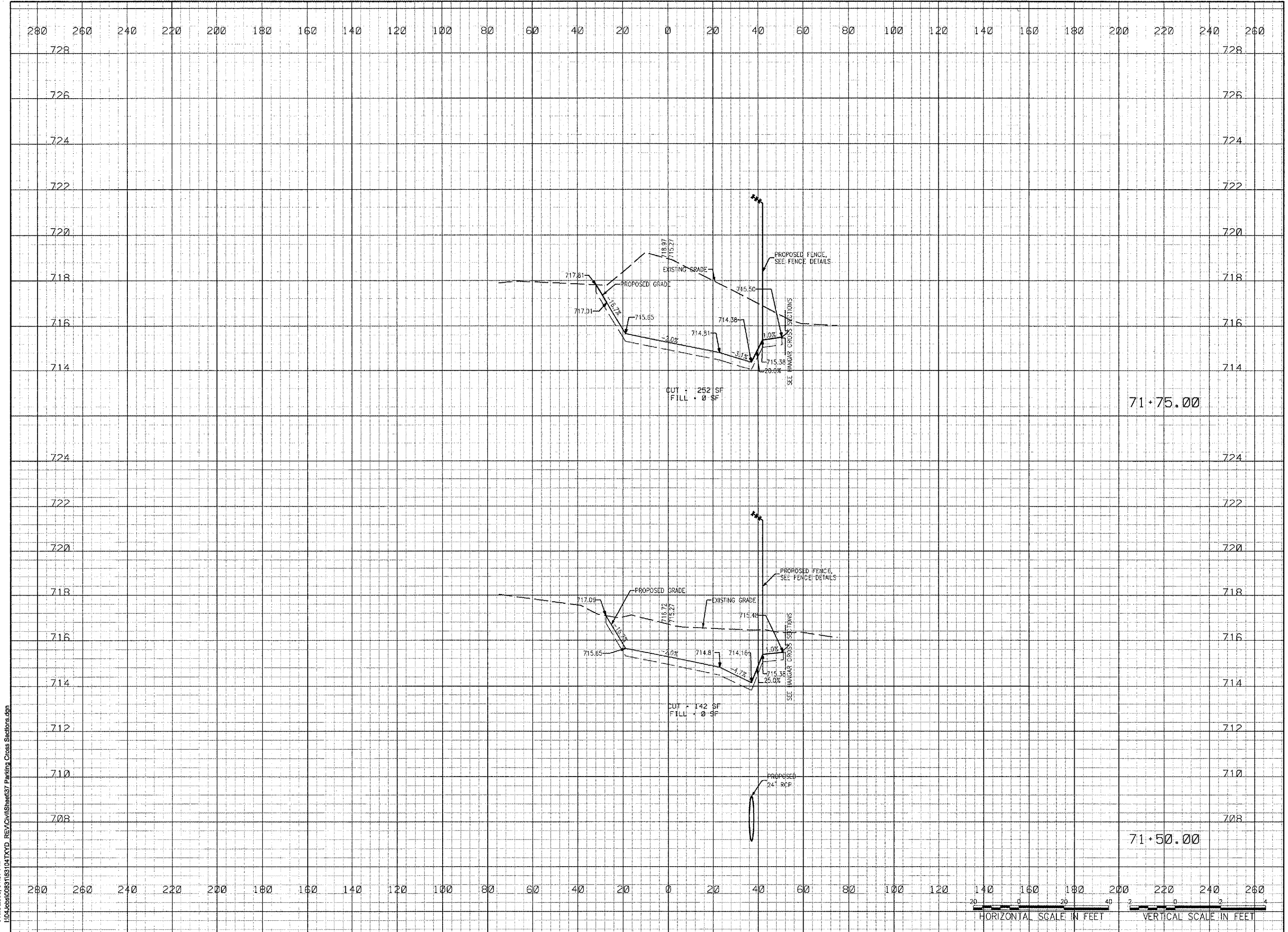
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Date
JANUARY 27, 2006
Sheet Title

FUTURE PARKING AREA
CROSS SECTIONS
STA. 71+50.00 TO 71+75.00

04WAUKEGAN
Project Number
AAP 11/10/05
Layout By Date
AAP 11/10/05
Designed By Date
KLK/RMH 01/23/06
Reviewed By Date
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Drawn By

Sheet No.



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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR
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IDA PROJECT NO. UGN-3499

No.	Drawing Issue Description	Date	By

Date

JANUARY 27, 2006

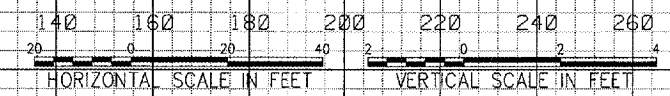
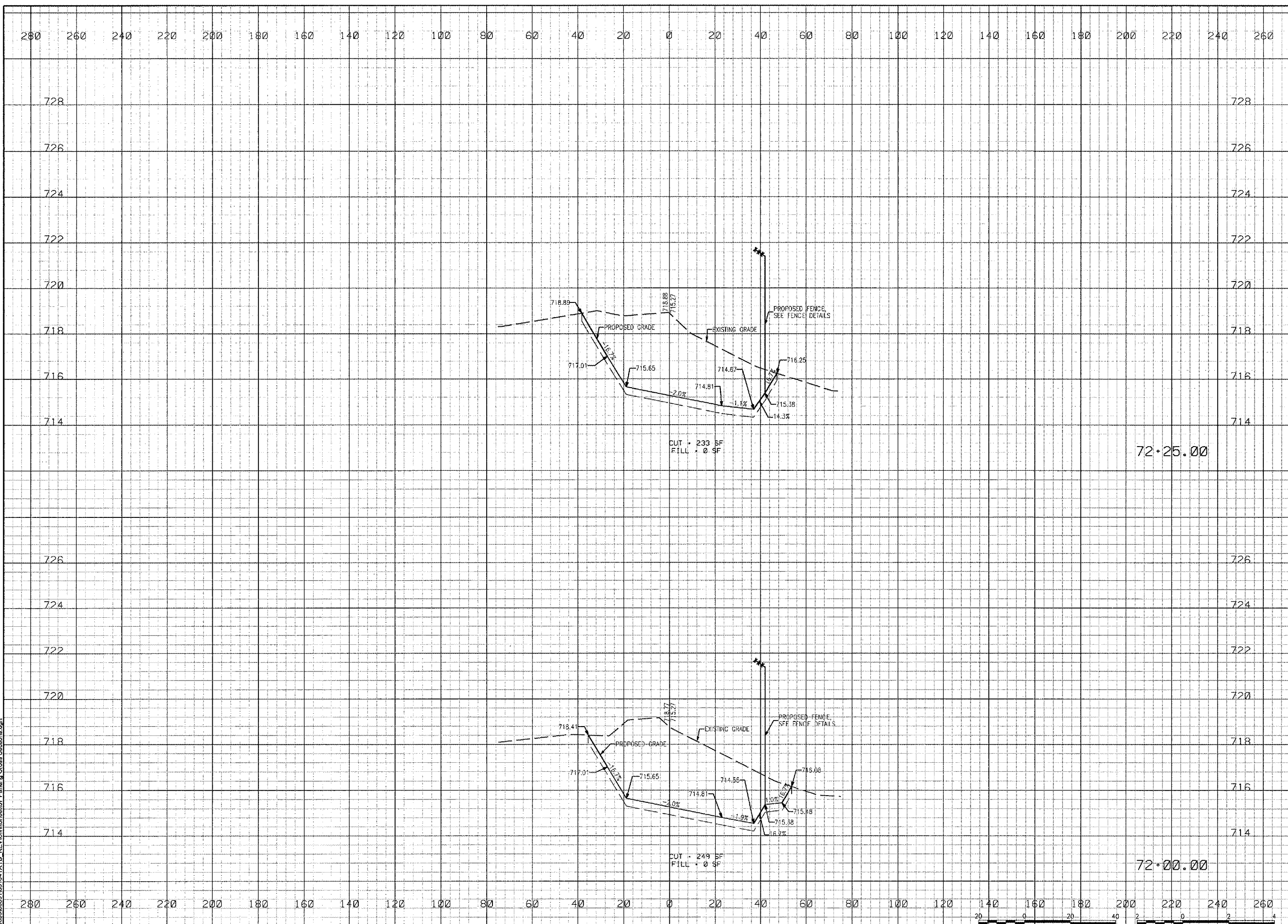
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FUTURE PARKING AREA
CROSS SECTIONS
STA. 72+00.00 TO 72+25.00

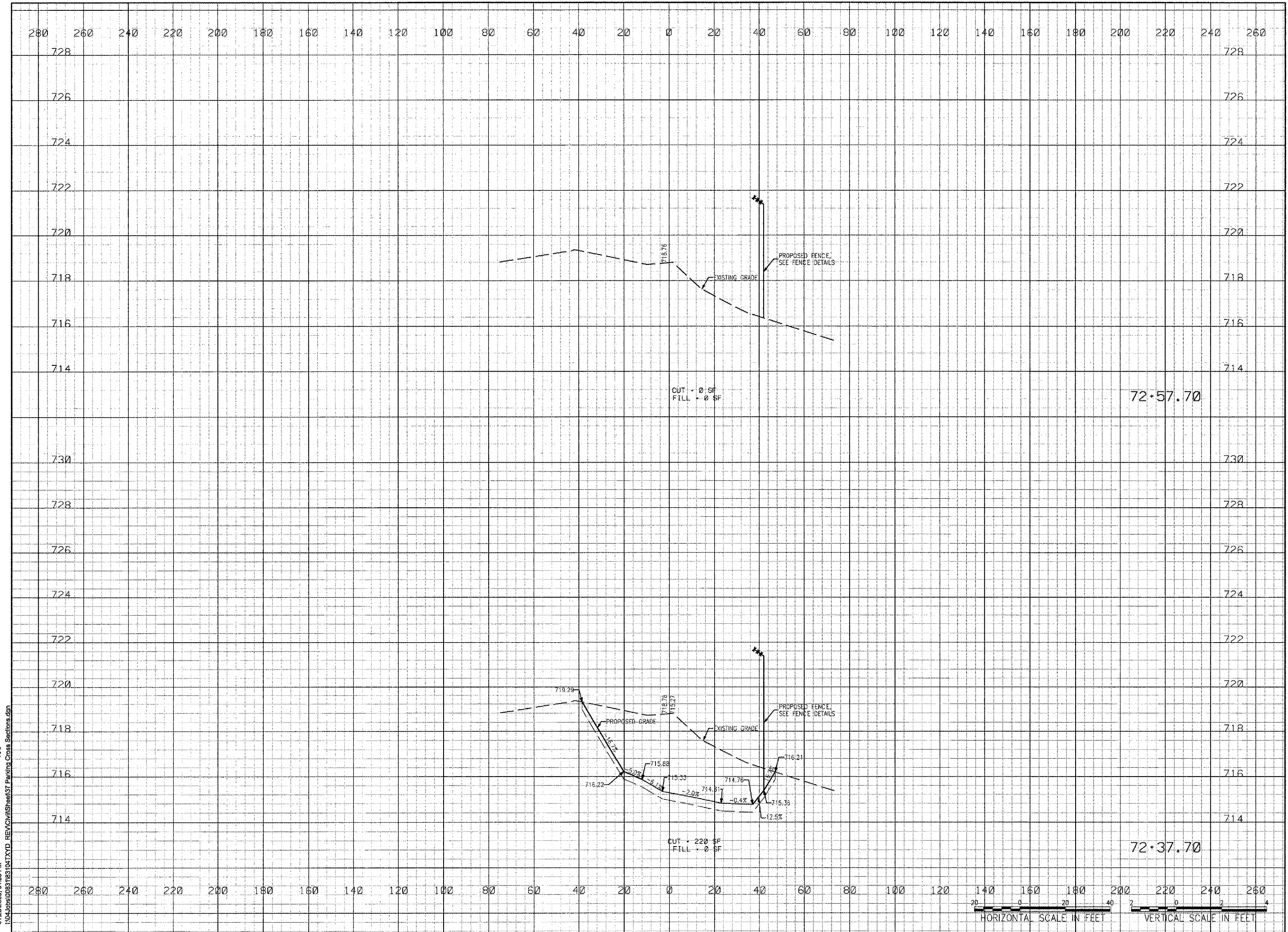
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Project Number	
AAP	11/10/05
Layout By	Date
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KLK/RMH	01/23/06
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KLK	AAP
Drawn By	

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 AUTO ACCESS**

IDA PROJECT NO. UGN-3499

No.	Drawing Issue Description	Date	By

Date
 JANUARY 27, 2006
 Sheet Title

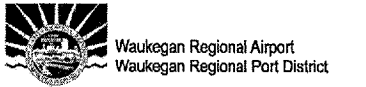
**FUTURE PARKING AREA
 CROSS SECTIONS
 STA. 72+37.70 TO 72+57.70**

04WAUKEGAN
 Project Number
 AAP 11/10/05
 Layout By Date
 AAP 11/10/05
 Designed By Date
 KLK/RMH 01/23/06
 Reviewed By Date
 KLK AAP
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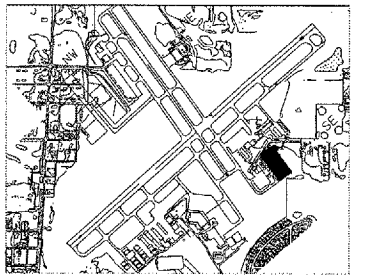


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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR APRONS, TAXIWAYS AND AUTO ACCESS

IDA PROJECT NO. UGN-3499



KEY MAP

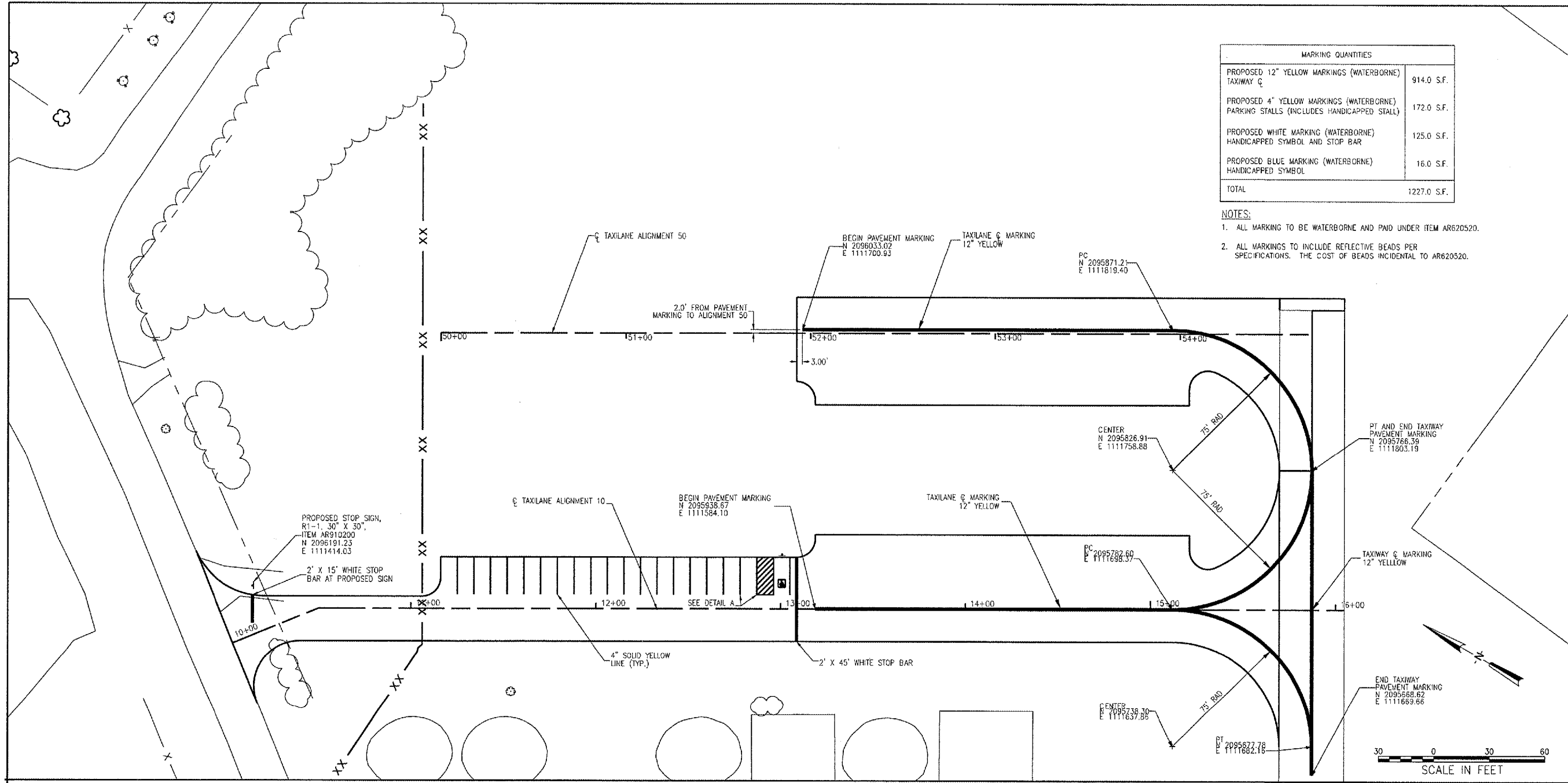
No.	Drawing Issue Description	Date	By

Date: JANUARY 27, 2006
Sheet Title

PAVEMENT MARKING AND SIGNING PLAN AND DETAILS

831-04TXD
Project Number

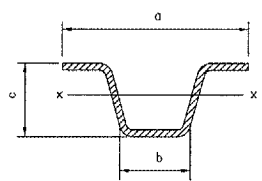
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Reviewed By	Date
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Drawn By	Sheet No.



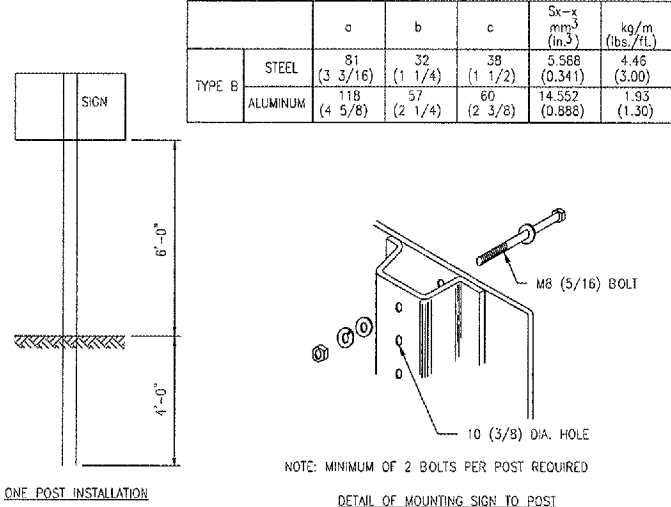
MARKING QUANTITIES	
PROPOSED 12" YELLOW MARKINGS (WATERBORNE) TAXIWAY C	914.0 S.F.
PROPOSED 4" YELLOW MARKINGS (WATERBORNE) PARKING STALLS (INCLUDES HANDICAPPED STALL)	172.0 S.F.
PROPOSED WHITE MARKING (WATERBORNE) HANDICAPPED SYMBOL AND STOP BAR	125.0 S.F.
PROPOSED BLUE MARKING (WATERBORNE) HANDICAPPED SYMBOL	16.0 S.F.
TOTAL	1227.0 S.F.

- NOTES:
- ALL MARKING TO BE WATERBORNE AND PAID UNDER ITEM AR620520.
 - ALL MARKINGS TO INCLUDE REFLECTIVE BEADS PER SPECIFICATIONS. THE COST OF BEADS INCIDENTAL TO AR620520.

- NOTES:
- DIMENSIONS FOR CROSS SECTIONS ARE MINIMUM.
 - S_{x-x} IS THE MINIMUM SECTION MODULUS ABOUT THE X-X AXIS OF THE POST AS SHOWN. FOR POST IN WHICH HOLES ARE PUNCHED OR DRILLED FOR MORE THAN HALF THEIR LENGTH, S_{x-x} SHALL BE COMPUTED FOR THE NEXT SECTION.
 - SOIL PRESSURE: MINIMUM ALLOWABLE SOIL PRESSURE = 1.25 TSF (120 KLA).
 - ALL HOLES ARE 3/8" (10mm) IN DIAMETER.
 - LOADING FOR 60 MPH (95 km/h) WIND VELOCITY WITH 30% GUST FACTOR, NORMAL TO SIGN.
 - MATERIALS: POST SHALL BE STRUCTURAL STEEL-BREAKAWAY CONFORMING WITH THE REQUIREMENTS OF SECTION 1093.01 OF THE IDOT SPECIFICATIONS. BOLTS, NUTS AND WASHERS SHALL BE HIGH-STRENGTH STEEL, GALVANIZED AND SHALL CONFORM TO SECTION 1006.08 OF THE IDOT SPECIFICATIONS.
 - IN AREAS WHERE POSTS PENETRATE PAVEMENT, THE PAVEMENT SHALL BE CORED. AFTER THE POST IS SET, THE HOLE SHALL BE GROUTED WITH AN IDOT APPROVED NON-SHRINK GROUT. COST INCIDENTAL TO SIGN.

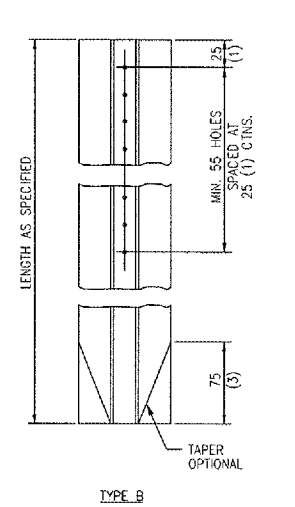


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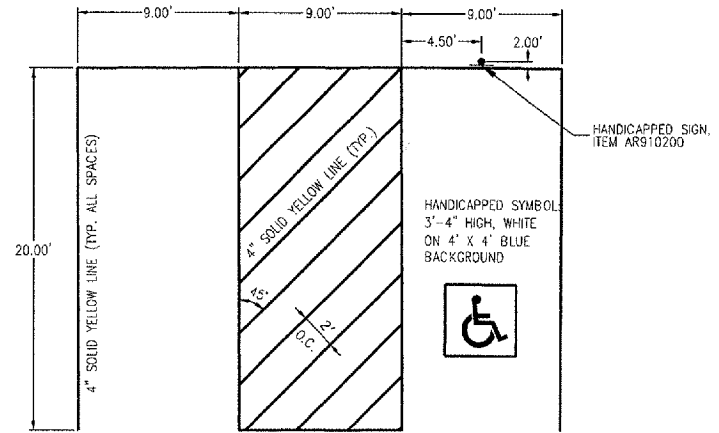


ROADWAY SIGN POST
(2007 STANDARD 72011)

TYPE B	STEEL	ALUMINUM
a	81 (3 3/16)	118 (4 5/8)
b	32 (1 1/4)	57 (2 1/4)
c	38 (1 1/2)	60 (2 3/8)
S _{x-x}	5.588 (0.341)	14.552 (0.888)
kg/m	4.46 (3.00)	1.93 (1.30)



TYPE B



DETAIL A
ACCESSIBLE SPACE MARKINGS

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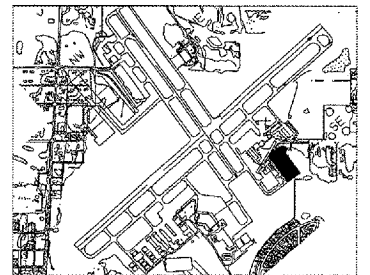


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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR APRONS, TAXIWAYS AND AUTO ACCESS

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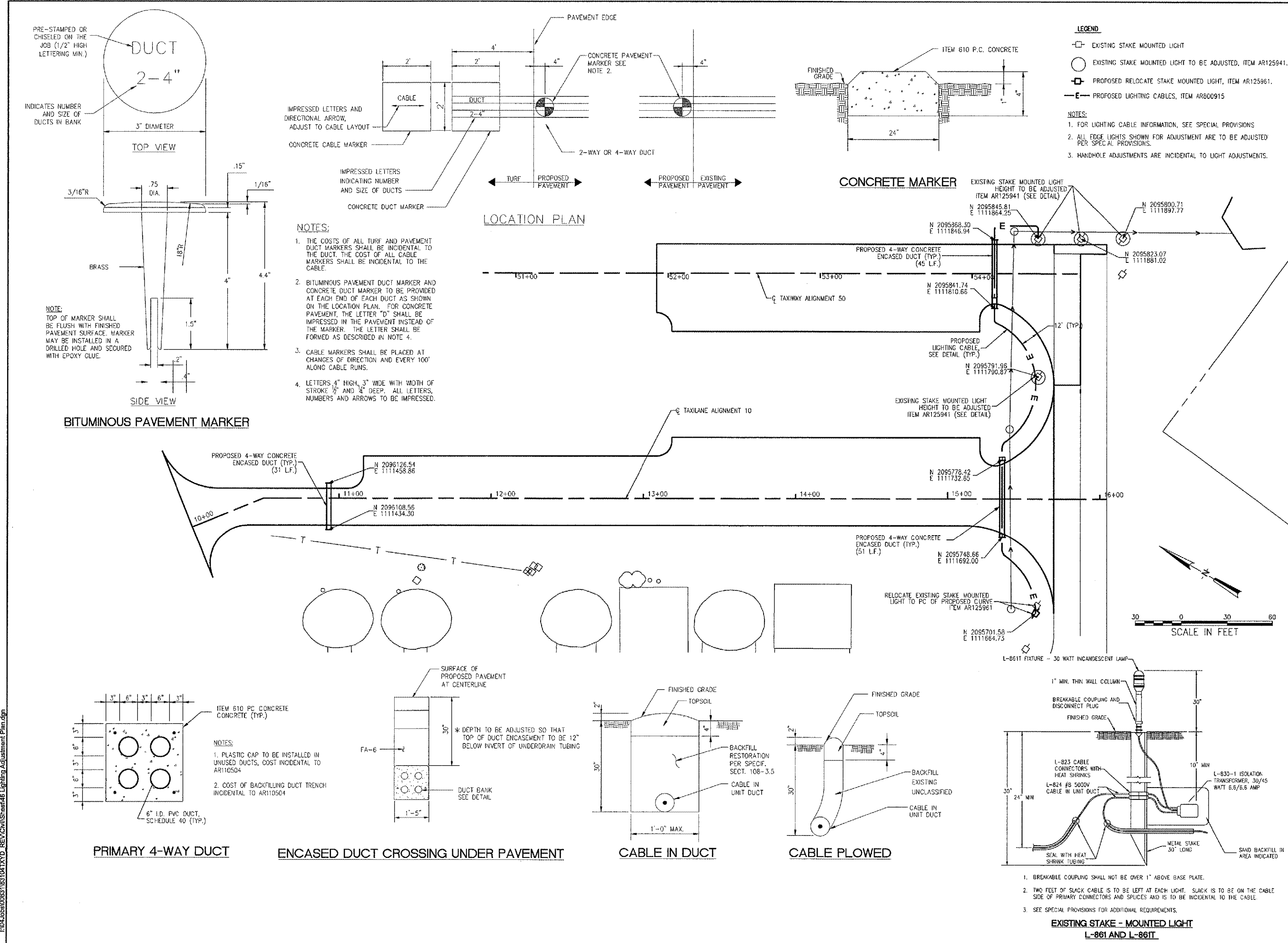
KEY MAP

No.	Drawing Issue Description	Date	By

Date
JANUARY 27, 2006
 Sheet Title

ELECTRICAL PLAN AND DETAILS

831-04TXD	Project Number
AAP	Date 11/15/05
AAP	Date 11/15/05
KLK/RMH	Date 01/23/06
KLK	Date
KLK	Date

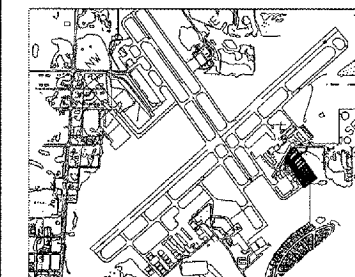


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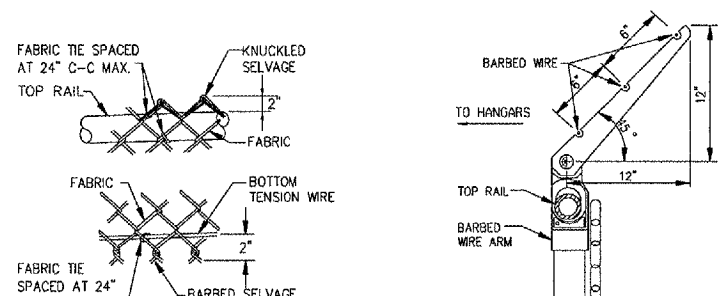
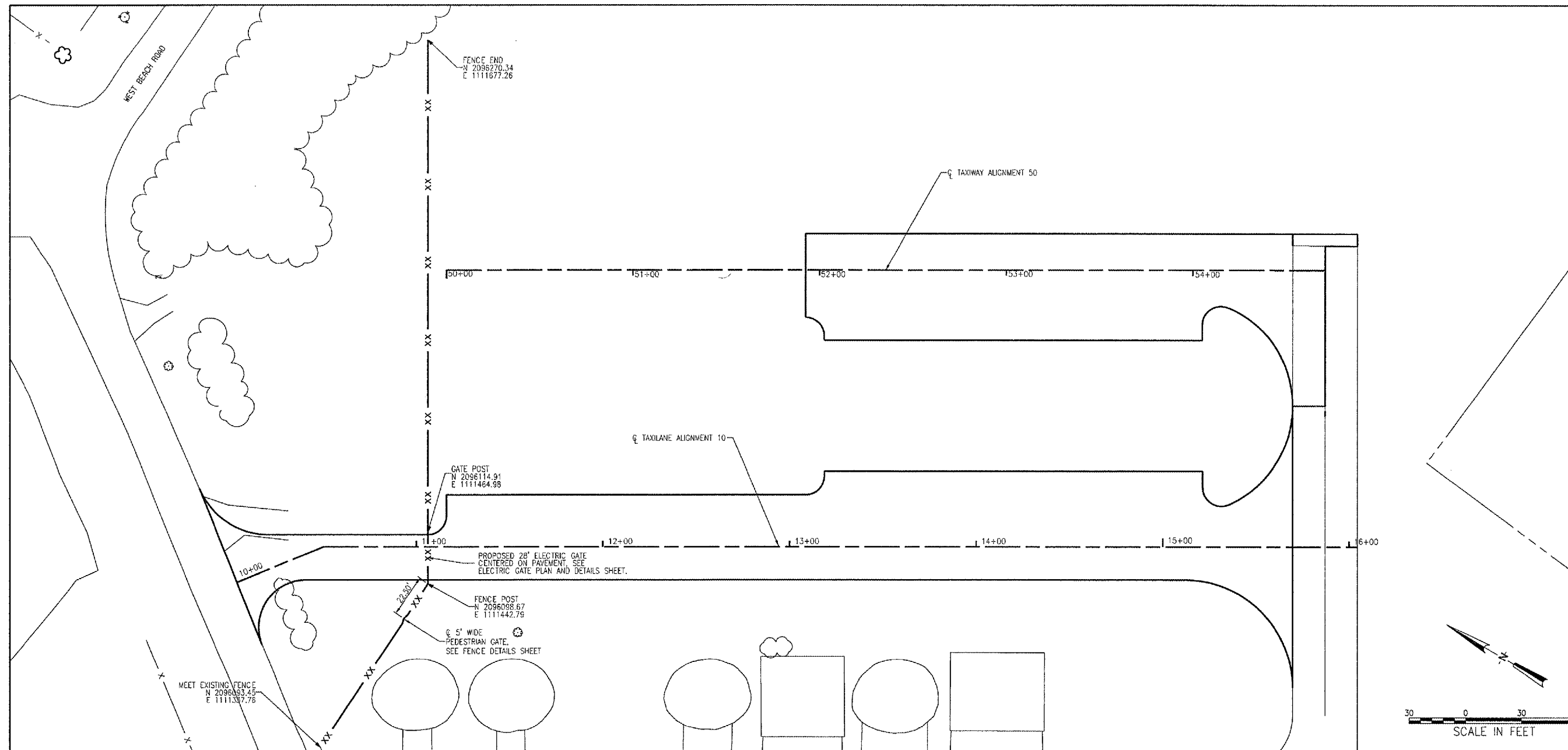
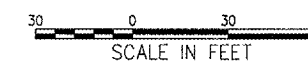
WAUKEGAN REGIONAL AIRPORT

**CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
AUTO ACCESS**

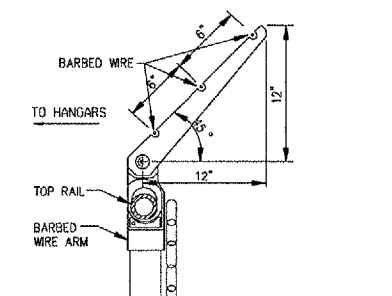
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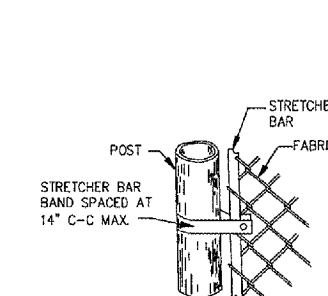
KEY MAP



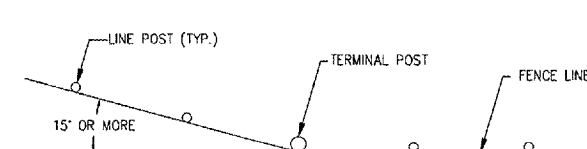
FABRIC TIES



BARBED WIRE ARM

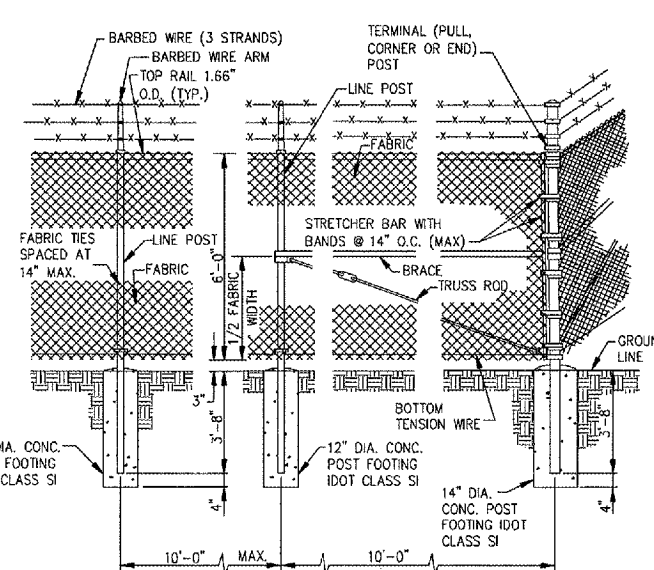


STRETCHER BAR BAND



WHEN FENCE LINE HAS A CHANGE IN DIRECTION OF 15° OR MORE, A TERMINAL POST SHALL BE PLACED AS SHOWN ABOVE. WHERE ANGLE IS LESS THAN 15° AND EXISTING CONDITIONS REQUIRE A TERMINAL POST, THEY SHALL BE PLACED AS DIRECTED BY THE RESIDENT ENGINEER.

INSTALLATION AT CORNERS



TERMINAL (PULL, CORNER OR END) POST

FENCING NOTES

- 1. ALL FENCE, FABRIC, POSTS, GATES, TENSION WIRE, RODS, BRACES, ARMS AND MISCELLANEOUS FITTINGS SHALL BE GALVANIZED.
- 2. BARBED WIRE FOR FENCE AND GATES SHALL BE GALVANIZED STEEL.
- 3. FENCE AND GATE HEIGHT SHALL BE 6'-0" AS SHOWN.
- 4. PULL POSTS SHALL BE PLACED AT LOCATIONS DETERMINED BY THE RESIDENT ENGINEER. THEY SHALL BE PLACED AT 660 FOOT INTERVALS BETWEEN POSTS TO WHICH THE ENDS OF THE FABRIC ARE CLAMPED OR MIDWAY BETWEEN SUCH POSTS WHEN THE DISTANCE IS LESS THAN 1,320 FEET AND GREATER THAN 660 FEET.
- 5. GATE KEEPERS SHALL BE PROVIDED TO HOLD GATES IN THE OPEN POSITION. THEY SHALL BE LOCATED AND INSTALLED AS DIRECTED BY THE RESIDENT ENGINEER.
- 6. IN LOCATIONS WHERE THE FENCE IS ALONG THE BITUMINOUS PAVEMENT EDGE THE PAVEMENT IS TO BE SAWCUT SQUARE TO ALLOW FOR PROPER INSTALLATION AND PLACEMENT OF THE FENCE POSTS AND FOUNDATION. SAWCUT COST INCIDENTAL TO FENCE.
- 7. SEE FENCE DETAIL SHEET FOR ADDITIONAL INFORMATION.
- 8. SEE SPECIAL PROVISIONS.

DETAILS SHOWN ARE NOT TO SCALE

No.	Drawing Issue Description	Date	By

Date: JANUARY 27, 2006
Sheet Title: FENCE PLAN AND DETAILS

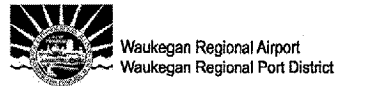
FENCE PLAN AND DETAILS

831-04TXD
Project Number
AAP 11/15/05
Layout By Date
AAP 11/15/05
Designed By Date
KLK/RMH 01/23/06
Reviewed By Date
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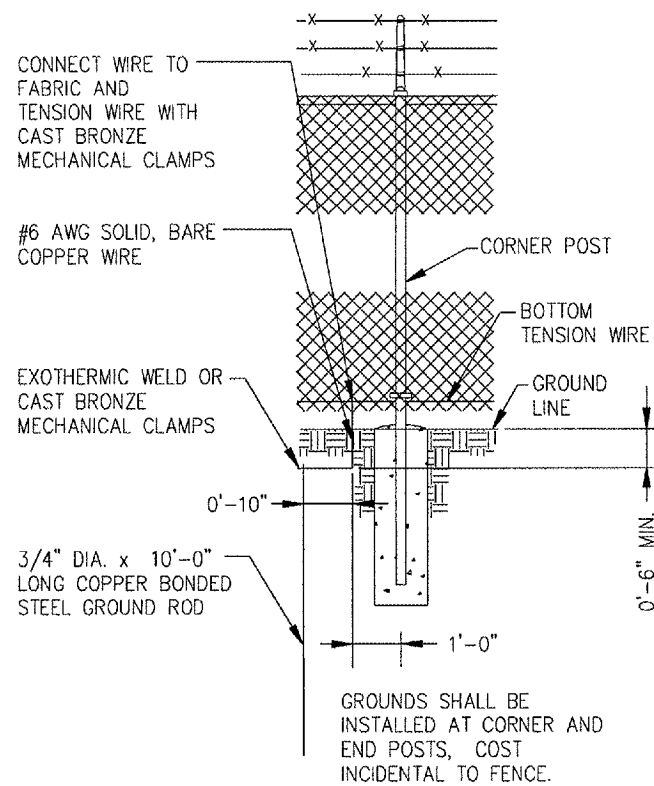


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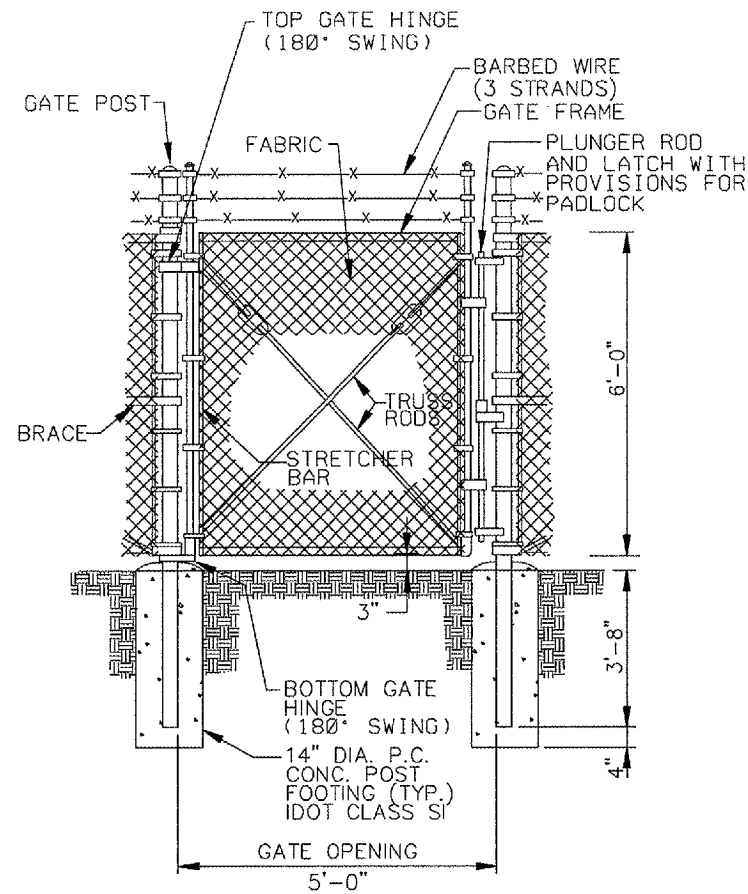
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CONSTRUCT NEW T-HANGAR APRONS, TAXIWAYS AND AUTO ACCESS

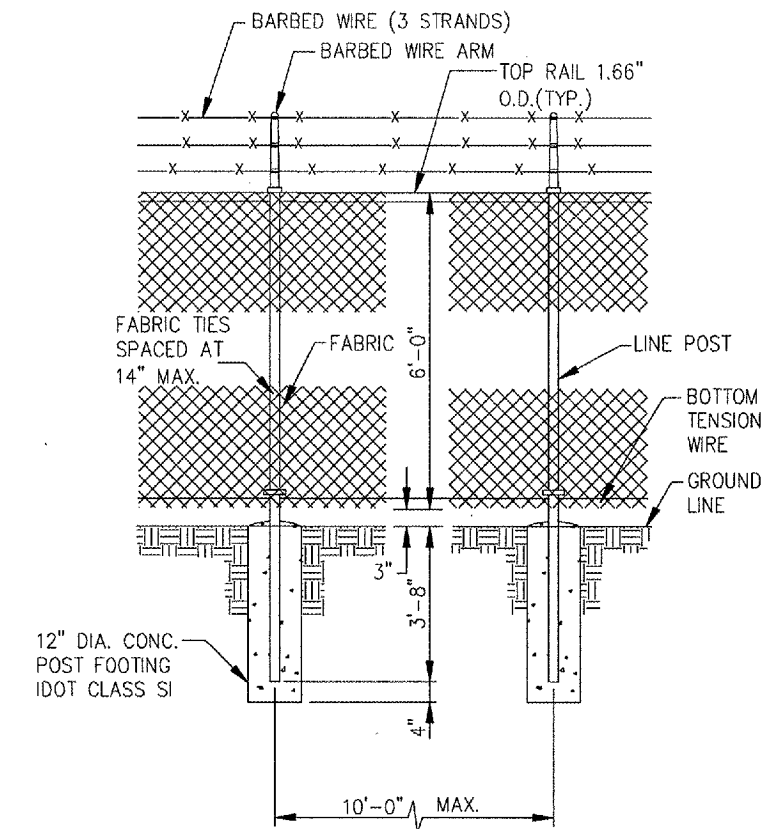
IDA PROJECT NO. UGN-3499



PROTECTIVE ELECTRICAL GROUND



PEDESTRIAN GATE, 5 FOOT



LINE POST

LINE POST	
SECTION (O.D.)	LBS./FT.
PIPE TYPE A 1.90"	2.72
PIPE TYPE B 1.90"	2.28
PIPE TYPE C 1.90"	2.26

TERMINAL POST	
SECTION (O.D.)	LBS./FT.
PIPE TYPE A 2.375"	3.65
PIPE TYPE B 2.375"	3.11
PIPE TYPE C 2.375"	3.09

HORIZONTAL BRACES	
SECTION (O.D.)	LBS./FT.
PIPE TYPE A 1.66"	2.27
PIPE TYPE B 1.66"	1.83
PIPE TYPE C 1.66"	1.82

GATE FRAMES	
SECTION (O.D.)	LBS./FT.
PIPE TYPE A 1.66"	2.27
PIPE TYPE B 1.66"	1.83
PIPE TYPE C 1.66"	1.82

GATE POSTS					
GATE OPENING (FT.)		PIPE TYPE A		PIPE TYPE B	
SINGLE	DOUBLE	SIZE (O.D.)	(LBS./FT.)	SIZE (O.D.)	(LBS./FT.)
UP TO 4	UP TO 8	2.375"	3.65	2.375"	3.11
OVER 4 TO 8	OVER 8 TO 16	2.875"	5.79	2.875"	4.64
OVER 8 TO 14	OVER 16 TO 28	3.5"	7.58	3.5"	5.707

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JANUARY 27, 2006
Sheet Title

FENCE DETAILS

831-04TXD
Project Number
AAP 11/15/05
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AAP 11/15/05
Designed By Date
KLK/RMH 01/23/06
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KLK AAP
Drawn By Sheet No.

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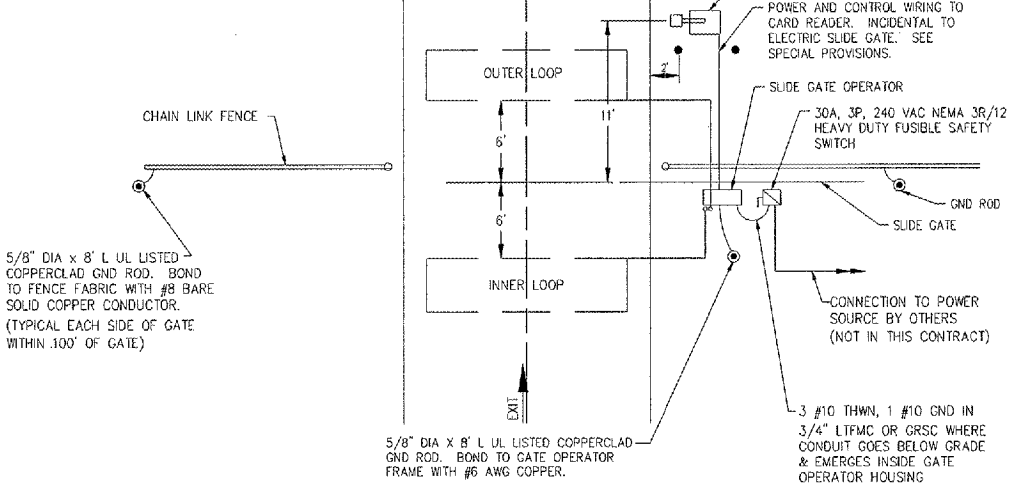
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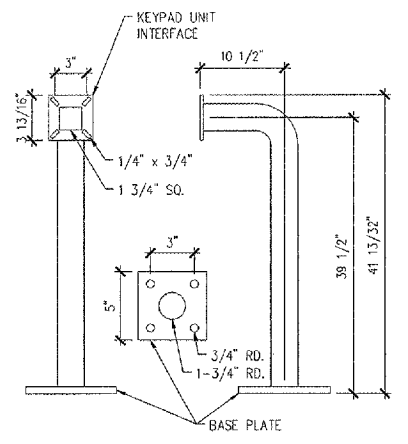
CONSTRUCT NEW T-HANGAR APRONS, TAXIWAYS AND AUTO ACCESS

IDA PROJECT NO. UGN-3499

VEHICLE DETECTOR LOOPS		
GATE SIZE	LOOP SIZE	NO. OF TURNS
8' TO 12'	4' X 6'	3 TURNS
12' TO 16'	4' X 10'	2 TURNS
16' TO 20'	4' X 14'	2 TURNS
20' TO 24'	4' X 18'	2 TURNS
24' TO 30'	6' X 22'	2 TURNS
30' TO 34'	6' X 26'	2 TURNS

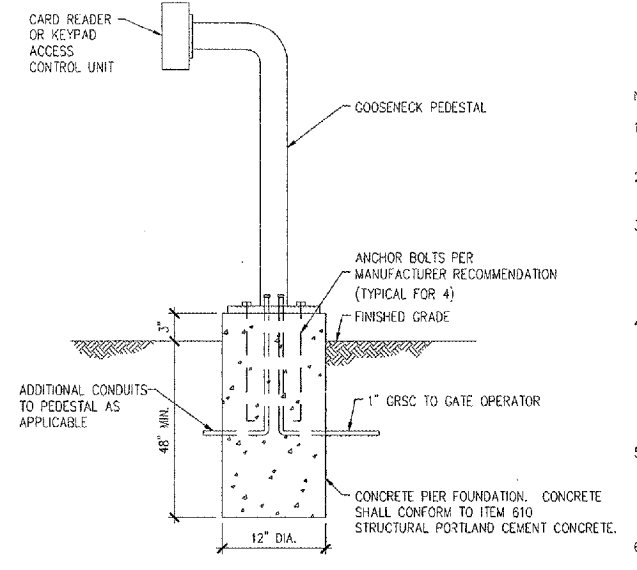


PLAN VIEW



GOOSENECK PEDESTAL DETAIL

NOTE:
GOOSENECK PEDESTAL SHALL BE AMERICAN ACCESS SYSTEMS, INC. (7079 SOUTH JORDAN RD., UNIT 6, ENGLEWOOD, CO 80112, PHONE: 800-541-5677, FAX 303-799-9756) MODEL 18-001 OR APPROVED EQUAL.

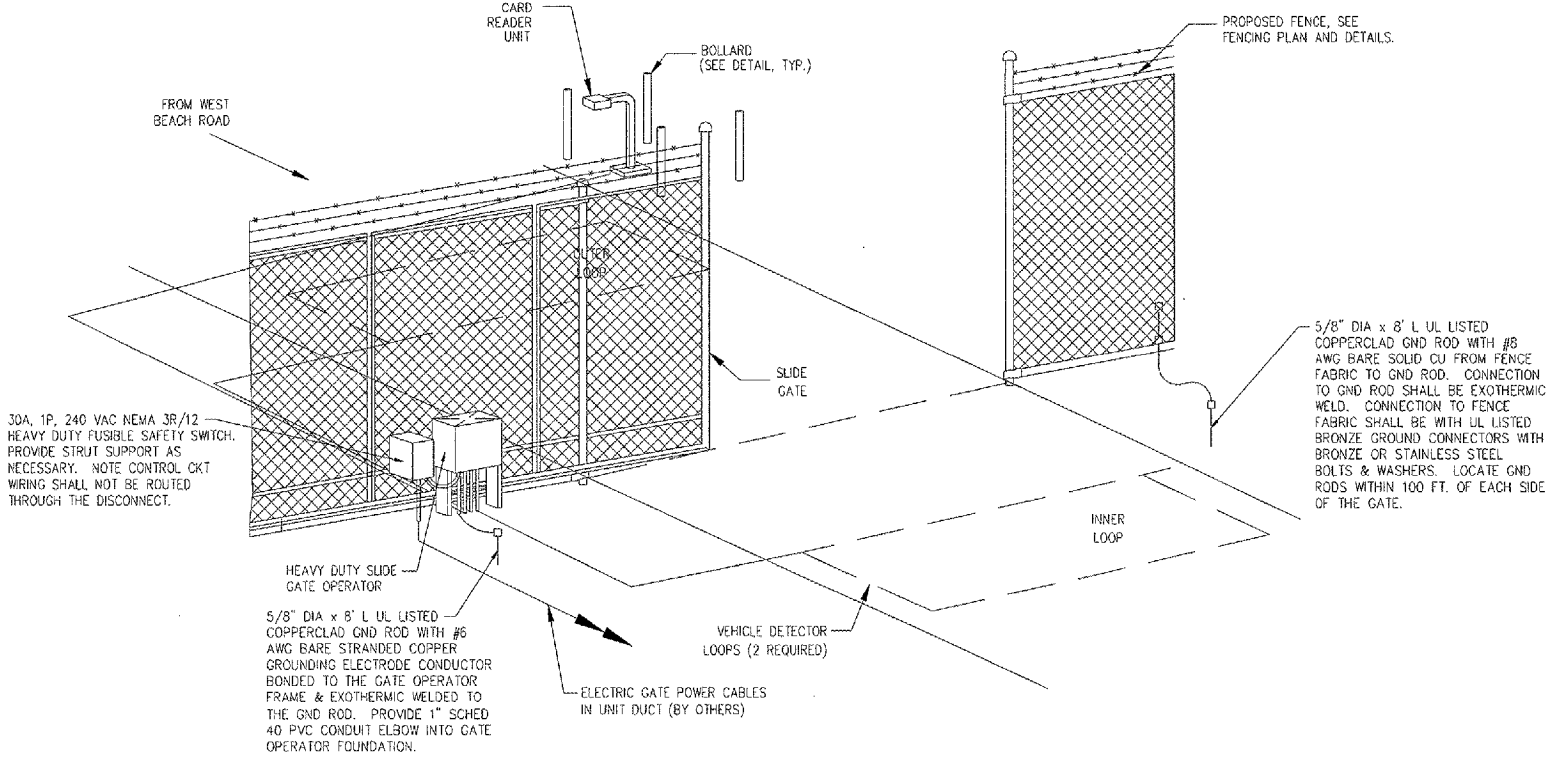


CARD READER/KEYPAD ACCESS CONTROL UNIT PEDESTAL ELEVATION DETAIL

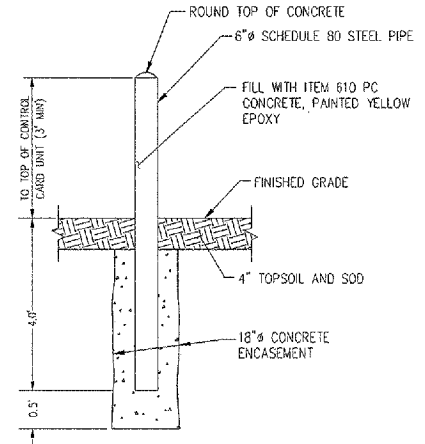
NOTE:
SEE SPECIAL PROVISION SPECS FOR REQUIREMENTS ON CARD READER OR KEYPAD ACCESS CONTROL UNIT.

NOTES

- SEE SPECIAL PROVISION SPECIFICATIONS FOR REQUIREMENTS ON GATE & GATE OPERATOR SYSTEM.
- ALL DIMENSIONS AND LAYOUT INFORMATION SHOWN SHOULD BE ADJUSTED AS RECOMMENDED BY THE MANUFACTURER.
- CONCRETE FOUNDATIONS SHALL BE PROVIDED FOR THE SLIDE GATE OPERATOR AND THE CARD READER CONTROL UNIT. FOUNDATION FOR THE GATE OPERATOR SHALL BE 48" (MIN.) IN DEPTH AND OF THE SIZE RECOMMENDED BY THE MANUFACTURER. FOUNDATION FOR THE CARD READER ACCESS CONTROL UNIT SHALL BE 48" (MIN.) IN DEPTH, AS DETAILED HEREIN.
- 1" GRCS CONDUIT WILL BE REQUIRED BETWEEN THE SLIDE GATE OPERATOR AND THE CARD READER ACCESS CONTROL UNIT AND BETWEEN THE SLIDE GATE OPERATOR AND THE DETECTOR LOOPS. THE MINIMUM BURYING DEPTH IS 24". ALL METAL CONDUITS ENTERING THE GATE OPERATOR SHALL BE BONDED TO THE GATE OPERATOR FRAME WITH A #8 AWG (MIN.) COPPER BONDING JUMPER. CONFIRM CONTROL WIRING REQUIREMENTS WITH THE RESPECTIVE GATE OPERATOR SALES AND SERVICE REPRESENTATIVE.
- THE GUARD/BOLLARD POSTS SHALL BE 6" DIA. STEEL (HEAVY WALL) PIPE, CONCRETE FILLED, AND SHALL EXTEND FROM THE TOP OF THE CARD CONTROL UNIT TO A DEPTH OF 48" BELOW THE GROUND LINE. THE CONCRETE FOOTER DIMENSION SHALL BE AS DETAILED HEREIN. GUARD/BOLLARD POSTS SHALL BE PAINTED WITH YELLOW COLORED ENAMEL FINISH.
- THE SLIDING GATE SHALL BE CANTILEVER TYPE OF THE SIZE CALLED FOR ON THE PLANS WITH AN ENCLOSED ROLLER ASSEMBLY WHICH IS PROTECTED FROM FREEZING RAIN AND SNOW AND SHALL BE AS MANUFACTURED BY TYPICAL CORPORATION, OR APPROVED EQUAL.
- THE SLIDE GATE OPERATOR IS TO BE MOUNTED ON A STEEL PLATFORM LOCATED APPROXIMATELY 11'-6" ABOVE THE GROUND. WHERE STEEL PLATFORM IS NOT A STANDARD OPTION EXTEND THE FOOTING/FOUNDATION PAD APPROXIMATELY 8" ABOVE GRADE. SHOP DRAWINGS APPROVAL IS REQUIRED.
- CONTRACTOR SHALL PROVIDE VERIFICATION THAT THE PROPOSED GATE OPERATOR IS SUITABLE FOR USE WITH & PROPERLY SIZED FOR THE RESPECTIVE SLIDE GATE.
- INCLUDE LOW VOLTAGE LINE PROTECTOR FOR THE CARD READER ACCESS CONTROL UNIT SUITABLE FOR USE ON THE RESPECTIVE CONTROL VOLTAGE SYSTEM, WITH SURGE CURRENT MAXIMUM RATING OF 3000 AMPS, LIFETIME PRODUCT REPLACEMENT WARRANTY AND AS RECOMMENDED BY THE KEYPAD ACCESS CONTROL UNIT MANUFACTURER'S REPRESENTATIVE.
- INCLUDE UL LISTED SECONDARY SURGE ARRESTER FOR THE GATE OPERATOR SUITABLE FOR USE ON 120/240 VAC, 1 PHASE, 3 WIRE PLUS GROUND SYSTEM, WITH SURGE CURRENT RATING OF 75 KA PER MODE, LIFETIME PRODUCT REPLACEMENT WARRANTY, AND AS RECOMMENDED BY THE GATE OPERATOR MANUFACTURER'S REPRESENTATIVE.
- INCLUDE LIGHTNING PROTECTION/SURGE ARRESTERS FOR THE DETECTOR AMPLIFIERS, AS RECOMMENDED BY THE MANUFACTURER.
- CONCRETE USED FOR INSTALLING THE GATE OPERATOR, CARD READER, & FENCE SHALL MEET THE REQUIREMENTS OF STRUCTURAL PORTLAND CEMENT CONCRETE ITEM 610.
- AS PART OF THIS ITEM 125 CARDS AND 5 REMOTE TRANSMITTERS FOR THE GATE SHALL BE PROVIDED BY THE CONTRACTOR. COORDINATE PROGRAMMING OF CARDS & TRANSMITTER FREQUENCIES WITH THE AIRPORT MANAGER.
- CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT THE ELECTRIC GATE OPERATOR, SLIDE GATE, & ALL ASSOCIATED POWER & CONTROL DEVICES ARE COMPATIBLE WITH EACH OTHER & SUITABLE FOR THE RESPECTIVE APPLICATION TO PROVIDE A COMPLETE AND PROPERLY OPERATIONAL ELECTRIC SLIDE GATE INSTALLATION.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (MOST CURRENT ISSUE IN FORCE), THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES, AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE UL LISTING, ETL LISTING, (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.
- PROVIDE A WEATHERPROOF ENGRAVED PHENOLIC OR PLASTIC LEGEND PLATE FOR THE SAFETY SWITCH AT THE RESPECTIVE GATE OPERATOR NOTING THE GATE SERVED, VOLTAGE, AND RESPECTIVE POWER SOURCE CIRCUIT AND LOCATION.
- CARD GATE TO MEET THE SAME SPECIFICATION AS THE FENCING FOR SIZE, COATINGS, BARBED WIRE, ETC., SEE FENCING DETAILS.
- CONTRACTOR SHALL FURNISH TEMPORARY POWER SOURCE (PORTABLE GENERATOR), AS REQUIRED TO SETUP, ADJUST, AND TEST GATE OPERATION. SEE SPECIAL PROVISIONS.



28' ELECTRIC GATE DETAIL



BOLLARD DETAIL

- NOTES
- THE EXPOSED PORTION OF THE BOLLARD SHALL BE PAINTED YELLOW EPOXY.
 - BOLLARD PAID AS ITEM AR800993 OR ITEM AS800993.

DETAILS SHOWN ARE NOT TO SCALE

No.	Drawing Issue Description	Date	By

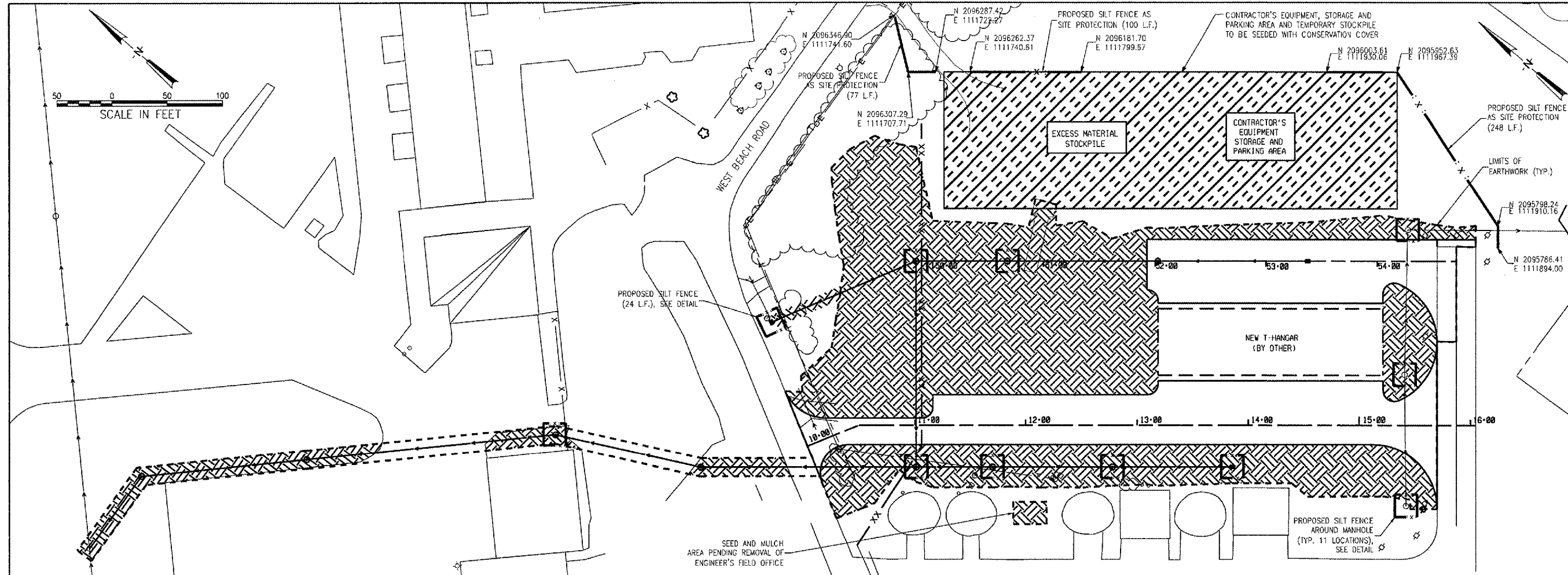
Date
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Sheet Title

ELECTRIC GATE PLAN AND DETAILS

831-04TXD

Project Number	
AAP	11/15/06
Layout By	Date
AAP	11/15/06
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Reviewed By	Date
KLK	AAP
Drawn By	

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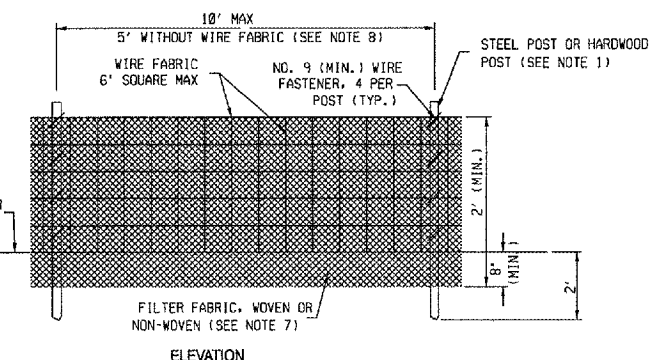
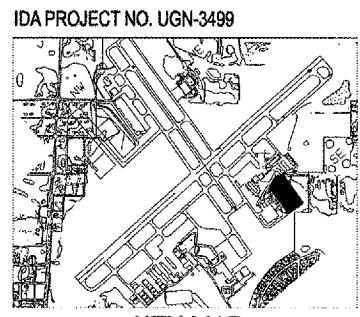
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Waukegan Regional Port District

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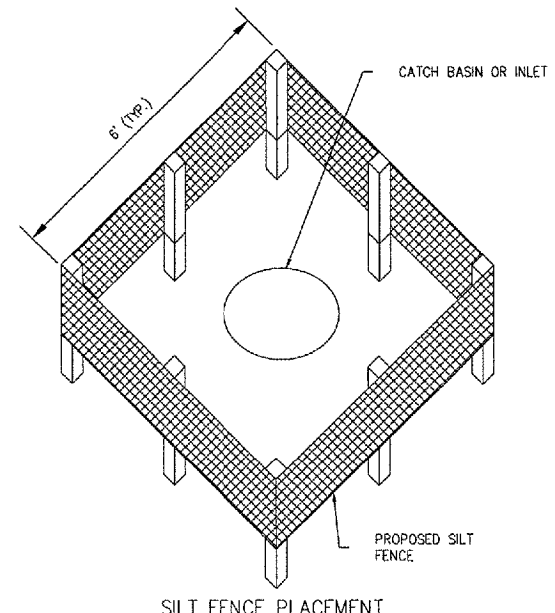
WAUKEGAN REGIONAL AIRPORT

**CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
AUTO ACCESS**



- NOTES:**
- FENCE POST SHALL BE EITHER STEEL *1" LINE POST OR HARDWOOD POST WITH A MINIMUM SECTIONAL AREA OF 3.0 SQUARE INCHES.
 - TOP AND BOTTOM WIRE OF WIRE FABRIC SHALL BE MINIMUM GAGE NO. 9. INTERMEDIATE WIRES OF THE WIRE FABRIC SHALL BE MINIMUM GAGE NO. 11.
 - WIRE FABRIC SHALL BE SECURELY FASTENED TO FENCE POSTS WITH NO. 9 GAGE WIRE MINIMUM. FOUR (4) FASTENERS PER POST REQUIRED.
 - FILTER FABRIC SHALL BE SECURELY FASTENED TO WIRE FABRIC AND POSTS WITH TIES OR STAPLES SPACED AT 12" APART AT THE TOP, MIDDLE AND BOTTOM.
 - WHEN TWO SECTIONS OF FILTER FABRIC OR ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED AND ATTACHED TO THE WIRE FABRIC AT A POST.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED AND REPLACED WHEN BULGES DEVELOP IN THE SILT FENCE.
 - FILTER FABRIC SHALL BE IN ACCORDANCE WITH SPECIAL PROVISIONS WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
 - WIRE FABRIC MAY BE OMITTED IF A MAXIMUM OF 5 FEET IS USED FOR POST-TO-POST SPACING.
 - SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. PERIODIC INSPECTION SHALL BE PERFORMED AND REQUIRED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.
 - FENCE POSTS SHALL BE REMOVED WHEN DIRECTED AT PROJECT END.

SILT FENCE



- NOTES:**
- SILT FENCE SHALL BE EMBEDDED 8" INTO THE SOIL.
 - INSPECTION SHALL BE FREQUENT AND REPAIR / REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 - TEMPORARY SILT FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE. CONTRACTOR SHALL PLACE SEED AND MULCH AROUND STRUCTURES PER LANDSCAPING PLAN.
 - AREAS DISTURBED OUTSIDE OF CONSTRUCTION LIMITS DURING PLACEMENT OF INLET PROTECTION TO BE REGRADED, SEEDED AND MULCHED, COST INCIDENTAL TO SILT FENCE.
 - SEE SPECIAL PROVISIONS FOR ADDITIONAL SILT FENCE INFORMATION.

INLET PROTECTION DETAIL

LANDSCAPING QUANTITIES	
ITEM	QUANTITY
PROPOSED SILT FENCE (INLET AND SITE PROTECTION), ITEM AR156510	689.0 L.F.
PROPOSED SEEDING, ITEM AR901510	2.1 ACRES
MULCHING, ITEM AR908510	2.1 ACRES
TOPSOIL (FROM ON-SITE), ITEM AR905510	365 C.Y.
TOPSOIL (FROM OFF-SITE), ITEM AR905520	795 C.Y.
PROPOSED CONSERVATION COVER, ITEM AR800937	1.2 ACRES

STORM WATER POLLUTION PREVENTION NOTES

GENERAL

THE CONTRACTOR SHALL IMPLEMENT ALL PROVISIONS OF THE CONTRACT DOCUMENTS TO ASSURE THAT STORM WATER POLLUTION PREVENTION ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY MANNER. SEDIMENTATION MUST NOT BE TRANSPORTED OFF THE CONSTRUCTION SITE. PERMANENT DRAINAGE FEATURES AND VEGETATIVE MEASURES SHALL BE PROVIDED AS SOON AS POSSIBLE.

THE MAINTENANCE OF ALL STORM WATER POLLUTION PREVENTION MEASURES IS INCIDENTAL TO THE ASSOCIATED ITEM.

POLLUTION PREVENTION MEASURES

THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT AND MAINTAIN STORM WATER POLLUTION PREVENTION PRACTICES AND MEASURES PRIOR TO THE STRIPPING OF EXISTING VEGETATION WHERE EVER POSSIBLE AND AS SOON AS CONSTRUCTION PERMITS IN OTHER AREAS. POLLUTION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, INCLUDING THESE CONSTRUCTION PLANS, AND WITH STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, CURRENT ISSUE. THE CONTRACTOR SHALL ADJUST HIS OPERATIONS AND IMPLEMENT POLLUTION CONTROL MEASURES SO THAT NO RUNOFF FROM STRIPPED AREAS WILL LEAVE THE CONSTRUCTION SITE OTHER THAN THROUGH SEDIMENT TRAPS OR OTHER SUITABLE CONTROL MEASURES.

POLLUTION CONTROL ITEMS SHALL BE PROVIDED AS NOTED ON THE STORM WATER POLLUTION PREVENTION PLAN AND IN THE STORM WATER POLLUTION PREVENTION DETAILS AND AS DIRECTED BY THE ENGINEER. THE LIMITS OF SUCH MEASURES SHALL BE STAKED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SUCH LIMITS MAY BE ADJUSTED BY THE ENGINEER TO ACCOUNT FOR ACTUAL SITE CONDITIONS EXPERIENCED DURING CONSTRUCTION. ADDITIONAL COMPENSATION FOR MEASURES EXCEEDING THE PLAN QUANTITIES WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH ITEM.

THE CONTRACTOR IS TO MAINTAIN AND ADJUST, REPAIR OR REPLACE ALL POLLUTION PREVENTION MEASURES AS REQUIRED OR AS DIRECTED BY THE ENGINEER UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. MAINTENANCE OF POLLUTION CONTROL MEASURES IS TO BE PROVIDED AT NO ADDITIONAL COST TO THE CONTRACT.

LANDSCAPING NOTES

- OUTER LIMITS OF SEEDING AND MULCHING TO FOLLOW THE LIMITS SHOWN ON THIS SHEET.
- ALL UTILITY TRENCHES TO BE SEEDED AND MULCHED, COST INCIDENTAL TO ASSOCIATED UTILITY ITEM.

No.	Drawing Issue Description	Date	By

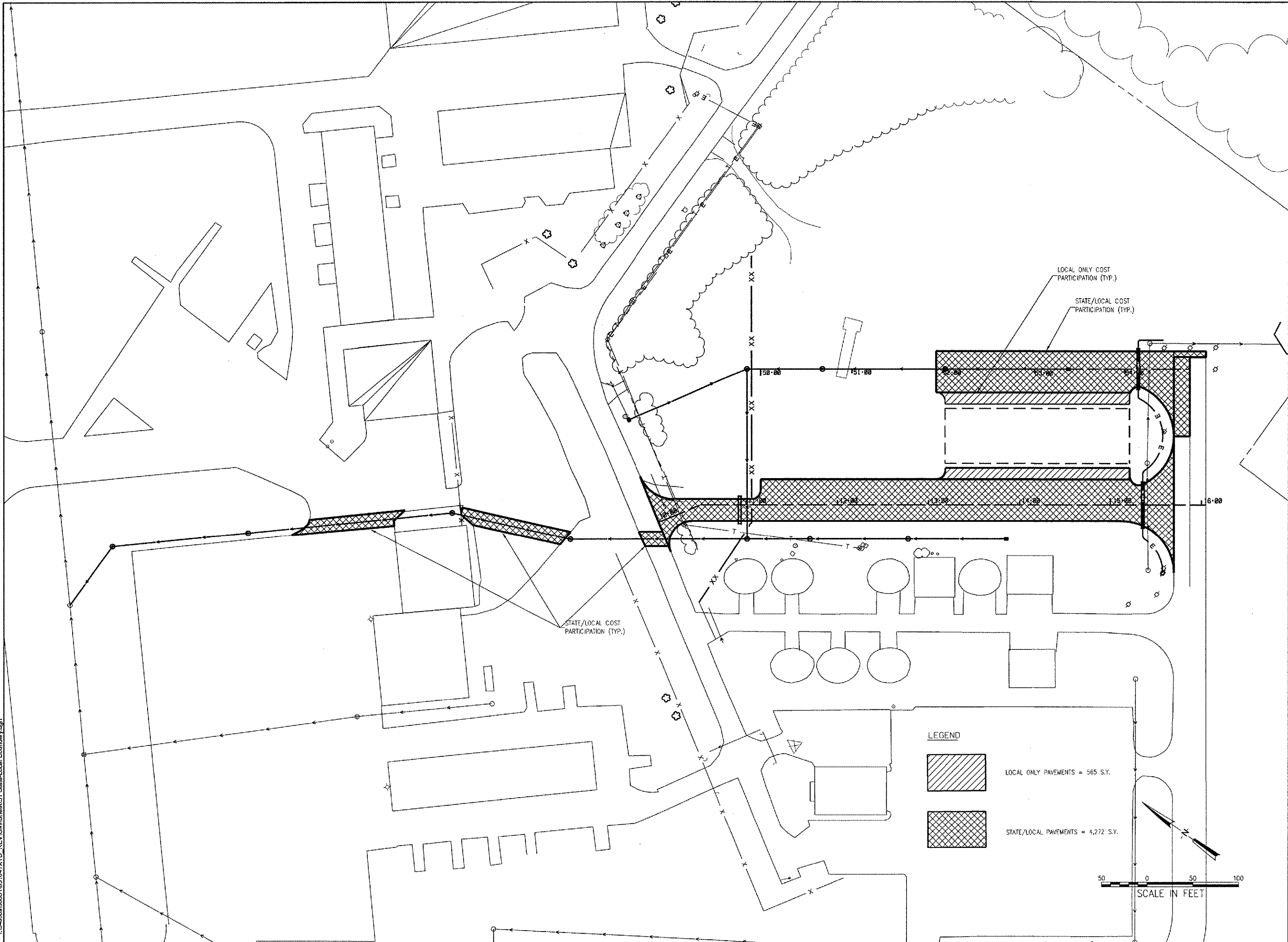
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JANUARY 27, 2006

Sheet Title

LANDSCAPING AND STORMWATER POLLUTION PREVENTION PLAN AND DETAILS

831-04TXD	Project Number
AAP	11/15/05
Layout By	Date
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Designed By	Date
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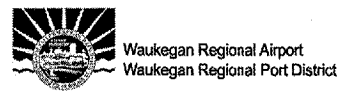


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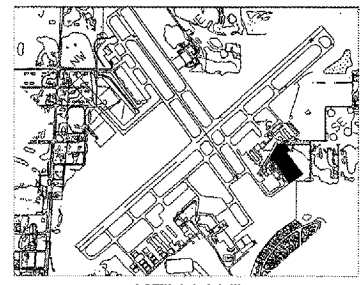


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WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR APRONS, TAXIWAYS AND AUTO ACCESS

IDA PROJECT NO. UGN-3499



No.	Drawing Issue Description	Date	By

Date: **JANUARY 27, 2006**

Sheet Title:

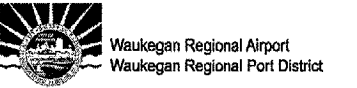
PAVEMENT ELIGIBILITY LIMITS

831-04TXVD	Project Number
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Layout By	Date
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KLK/RMH	01/23/06
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Drawn By	Sheet No.



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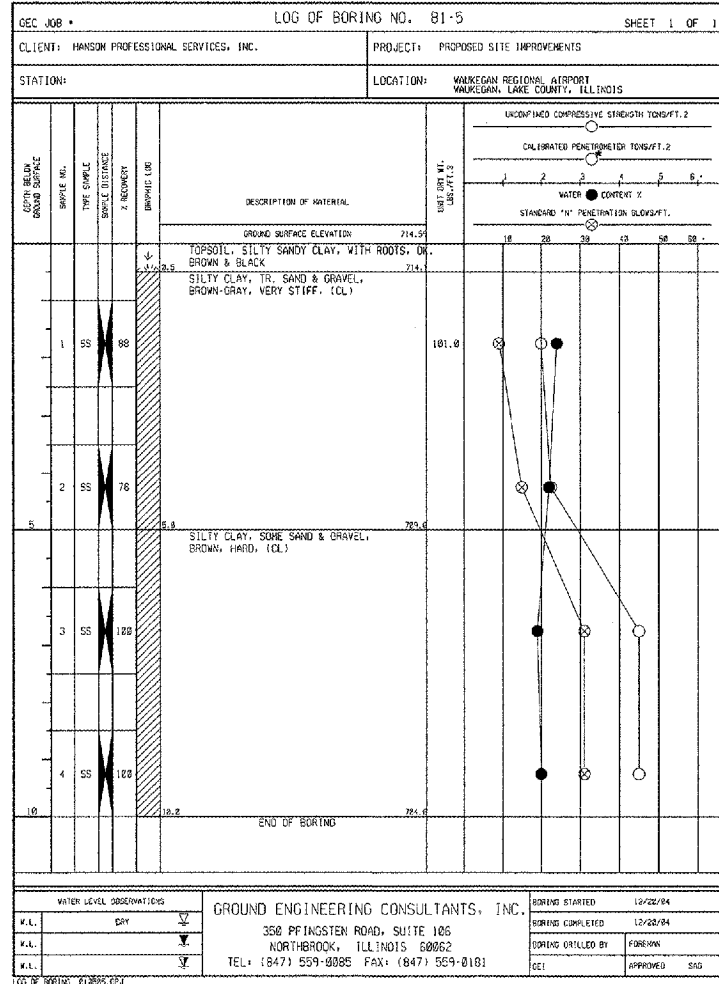
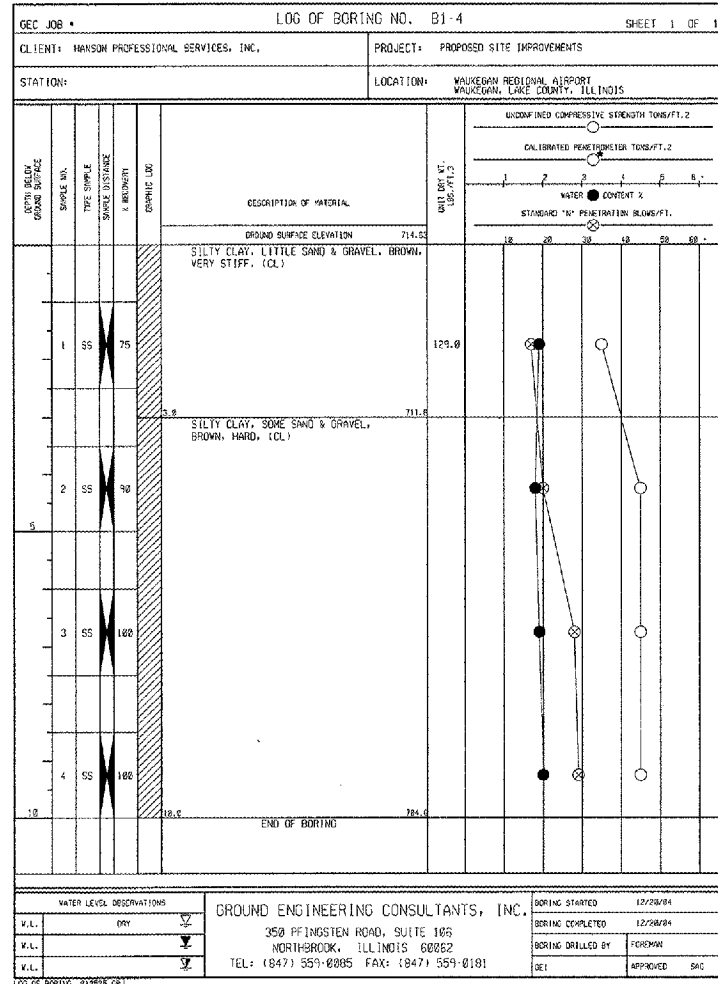
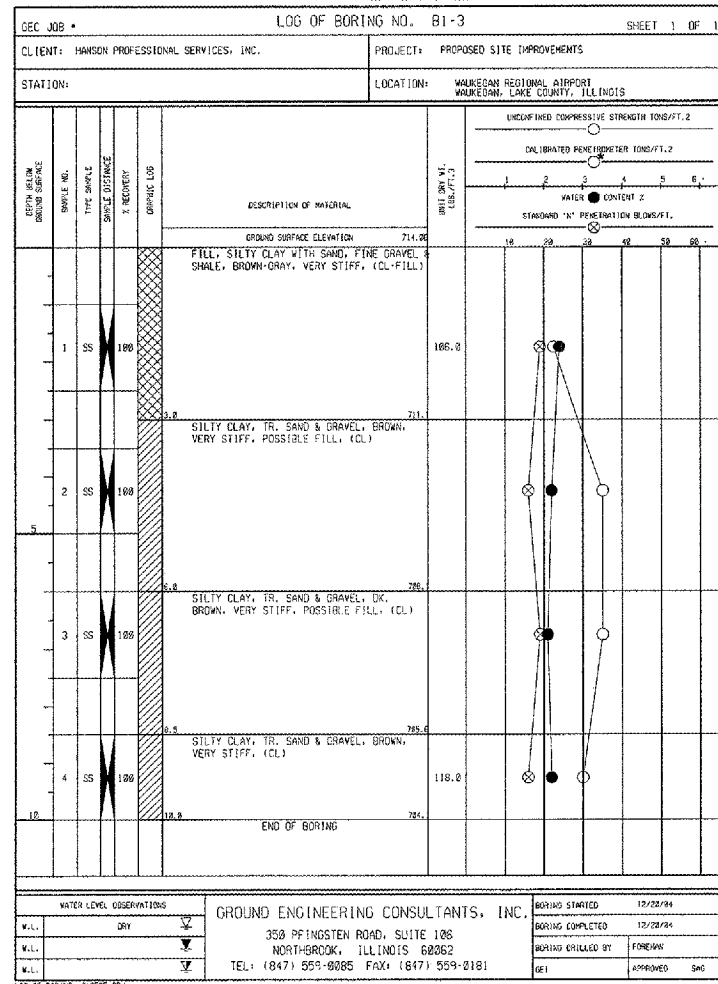
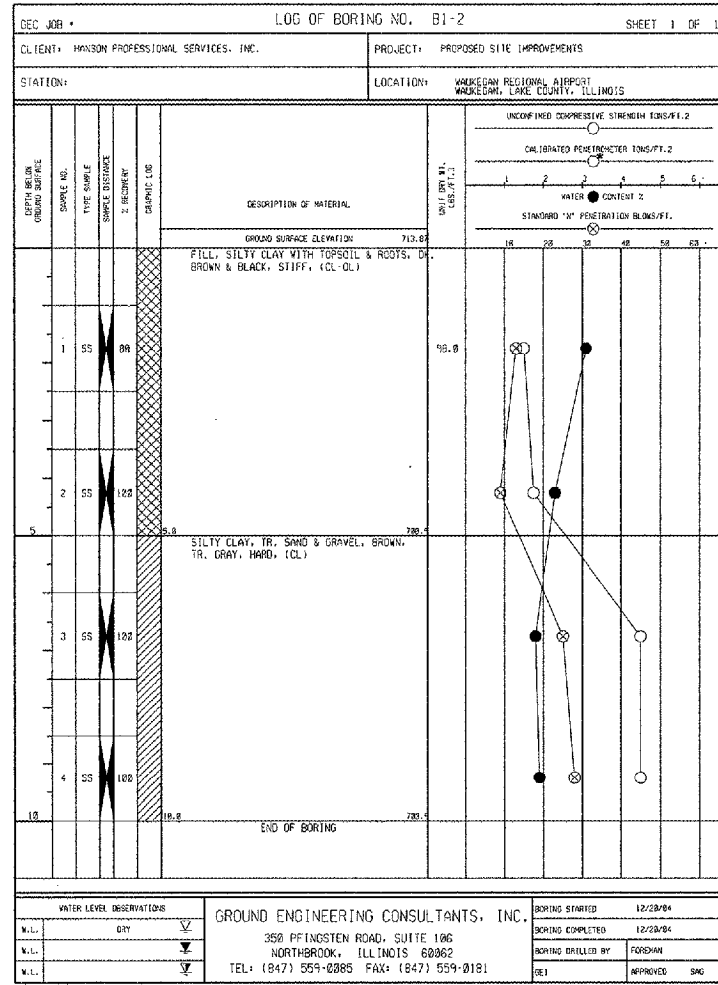
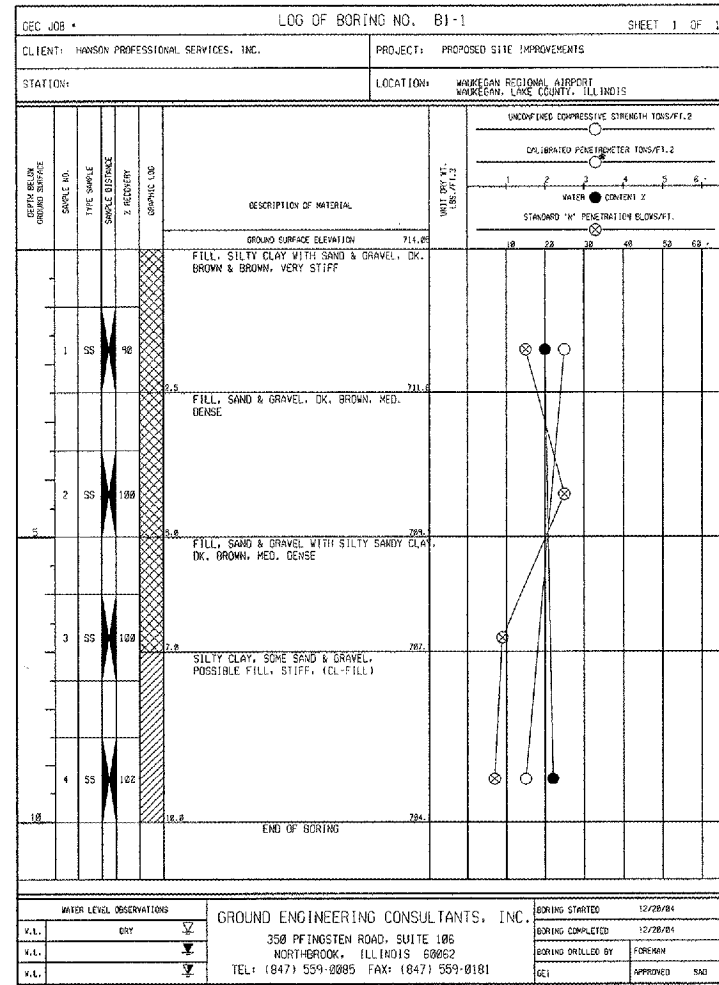
WAUKEGAN REGIONAL AIRPORT

CONSTRUCT NEW T-HANGAR
APRONS, TAXIWAYS AND
AUTO ACCESS

IDA PROJECT NO. UGN-3499

SOILS INVESTIGATION PERFORMED BY:
GROUND ENGINEERING CONSULTANTS, INC.
350 PFINGSTON ROAD, SUITE 106
NORTHBROOK, ILLINOIS 60062

NOTE:
FOR BORING LOCATIONS, SEE UNDERCUTTING PLAN.



No.	Drawing Issue Description	Date	By

Date
JANUARY 27, 2008
Sheet Title

SOIL BORING LOG
B1-1 THRU B1-5

831-04TXD
Project Number
AAP 11/15/05
Layout By Date
AAP 11/15/05
Designed By Date
KJORMH 01/23/06
Reviewed By Date
KJK AAP
Drawn By Sheet No.

