



## SUMMARY OF QUANTITIES

| SEQ NO | ITEM NO  | DESCRIPTION                     | UNIT | BASE BID                   |                 |
|--------|----------|---------------------------------|------|----------------------------|-----------------|
|        |          |                                 |      | REHAB.SOUTH APRON QUANTITY | RECORD QUANTITY |
| 1      | AR201670 | CRACK CONTROL FABRIC            | SY   | 17,740.00                  |                 |
| 2      | AR401610 | BITUMINOUS SURFACE COURSE       | TONS | 3,705.00                   |                 |
| 3      | AR401630 | BITUMINOUS SURFACE TEST SECTION | EACH | 1.00                       |                 |
| 4      | AR401655 | BUTT JOINT CONSTRUCTION         | SY   | 1,450.00                   |                 |
| 5      | AR401910 | REMOVE & REPLACE BIT. PAVEMENT  | SY   | 107.00                     |                 |
| 6      | AR510510 | TIEDOWN                         | EACH | 45.00                      |                 |
| 7      | AR510515 | GROUND ROD                      | EACH | 10.00                      |                 |
| 8      | AR510900 | REMOVE TIEDOWN                  | EACH | 51.00                      |                 |
| 9      | AR603510 | BITUMINOUS TACK COAT            | GAL  | 4,589.00                   |                 |
| 10     | AR620520 | PAVEMENT MARKING - WATERBORNE   | SF   | 2,118.00                   |                 |
| 11     | AR620525 | PAVEMENT MARKING - BLACK BORDER | SF   | 1,890.00                   |                 |
| 12     | AR625510 | TAR EMULSION SEAL COAT          | SY   | 1,267.00                   |                 |
| 13     | AR901510 | SEEDING                         | ACRE | 0.51                       |                 |
| 14     | AR905520 | TOPSOILING (FROM OFF SITE)      | CY   | 271.00                     |                 |
| 15     | AR908510 | MULCHING                        | ACRE | 0.51                       |                 |
| 16     |          |                                 |      |                            |                 |
| 17     |          |                                 |      |                            |                 |
| 18     |          |                                 |      |                            |                 |
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| 20     |          |                                 |      |                            |                 |

WH009



CRAWFORD, MURPHY & TILLY, INC.  
CONSULTING ENGINEERS

Whiteside County **AIRPORT**  
JOSEPH H. BITTORF FIELD

Whiteside County  
Airport

Sterling / Rock Falls,  
Illinois

Whiteside County  
Airport

AIP: 3-17-0098- B16  
SQI-3910

REHABILITATE  
SOUTH TERMINAL  
APRON

Revisions

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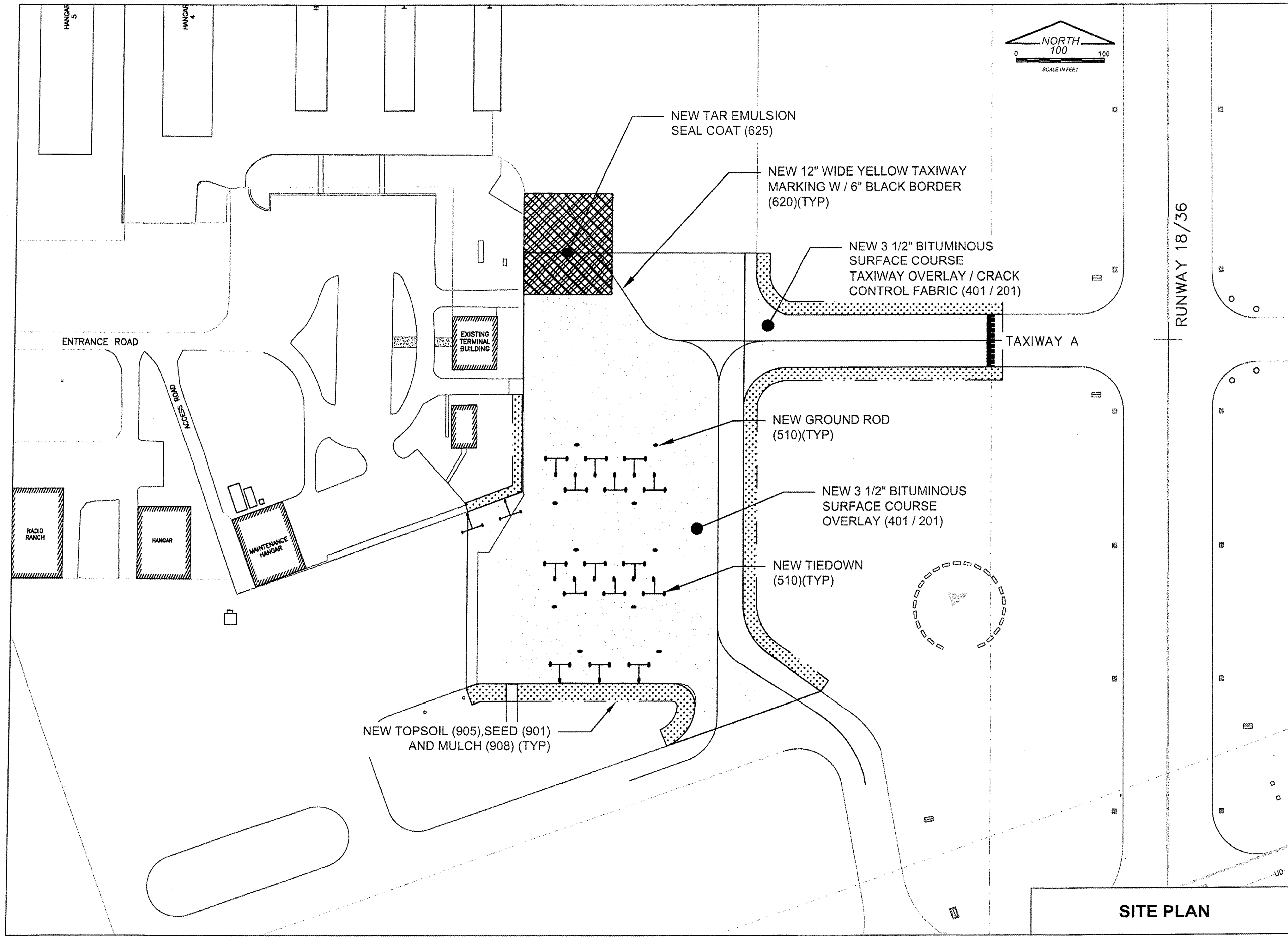
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APPROVED BY: JGP  
DATE: 04.17.09  
JOB No: 09292-02-00

**SUMMARY OF  
QUANTITIES  
(QTY1)**

**SUMMARY OF QUANTITIES**

02

SHEET 02 OF 11 SHEETS



WH009



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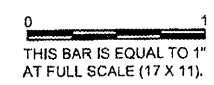
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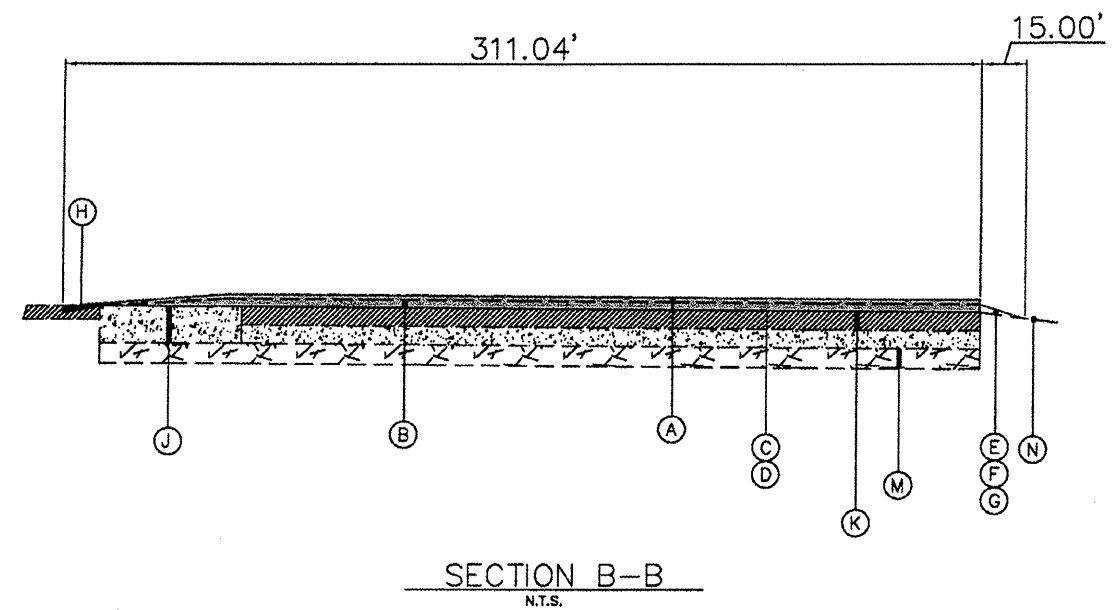
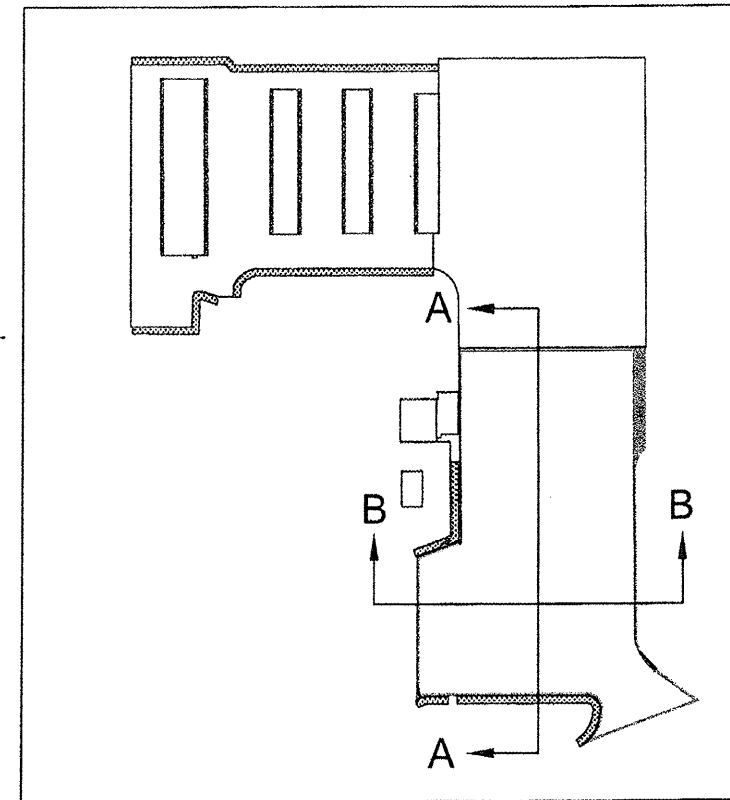
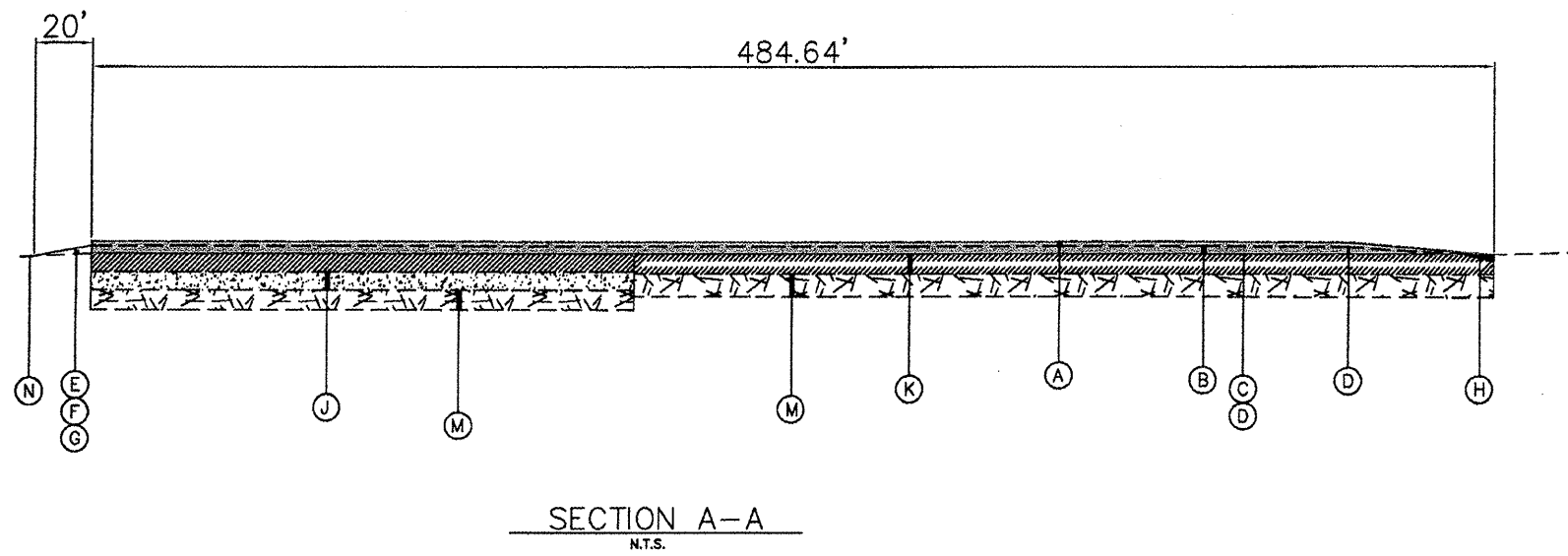


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**SITE PLAN  
(SPL1)**

**03**

**SITE PLAN**



- LEGEND**
- (A) NEW 1-1/2" NOMINAL SURFACE COURSE (401)
  - (B) NEW 2" SURFACE COURSE (401)
  - (C) NEW BITUMINOUS TACK COAT (603)
  - (D) NEW CRACK CONTROL FABRIC (401)
  - (E) NEW TOPSOIL SHOULDER
  - (F) NEW MULCHING
  - (G) NEW SEEDING
  - (H) NEW BUTT JOINT CONSTRUCTION (401)
  - (I) EXISTING 5.5" BITUMINOUS PAVEMENT
  - (J) EXISTING 8" PCC PAVEMENT
  - (K) EXISTING 4" BITUMINOUS PAVEMENT
  - (L) EXISTING 8" AGGR. BASE
  - (M) EXISTING CRUSHED AGGR. BASE
  - (N) EXISTING GROUND LINE

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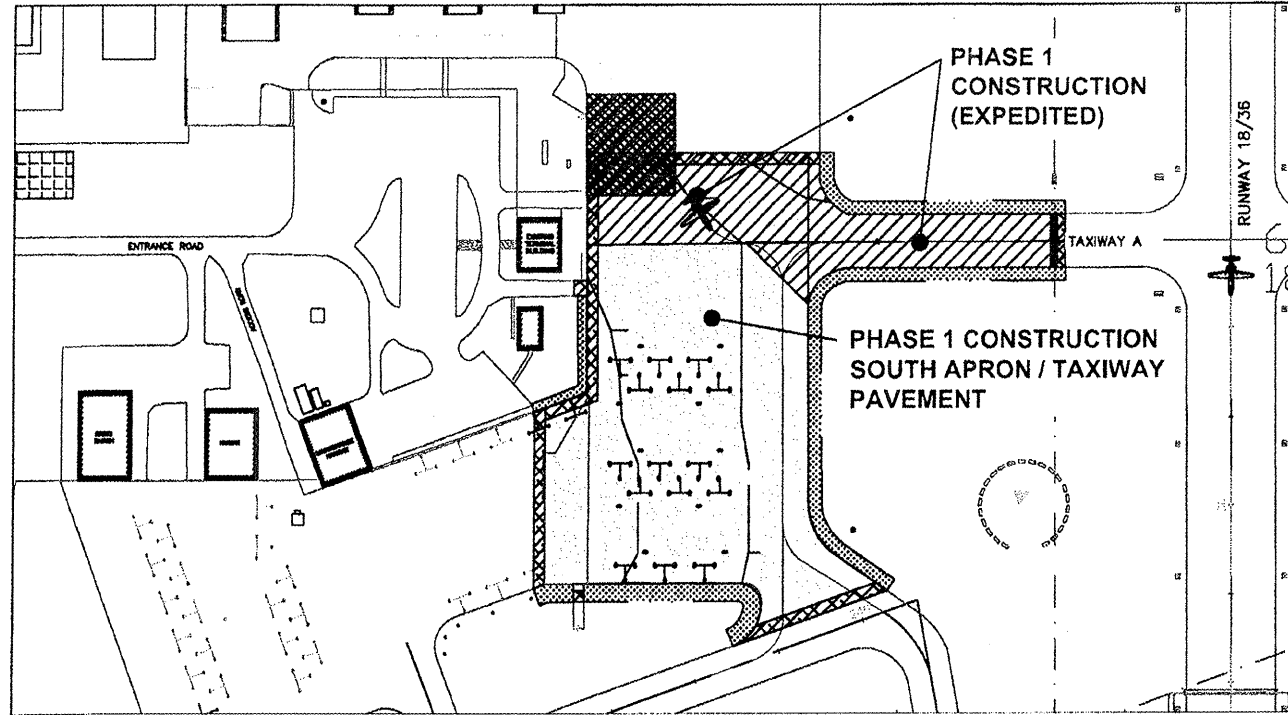
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TYPICAL  
SECTIONS  
(TYP1)

TYPICAL SECTIONS 1

04

SHEET 04 OF 11 SHEETS



**PROJECT GENERAL NOTES (APPLY TO ALL STAGES):**

**1. SUGGESTED SEQUENCE OF CONSTRUCTION**

THE SUGGESTED SEQUENCE OF CONSTRUCTION SHOWN IS INTENDED TO ALLOW FOR THE ORDERLY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS WHILE MAINTAINING AIRCRAFT ACCESS AT ALL TIMES. THE PHASING SHOWN IS A SUGGESTED SEQUENCE OF CONSTRUCTION ONLY. THIS SEQUENCE MAY BE MODIFIED WITH THE APPROVAL OF THE ENGINEER. HOWEVER, ALTERNATE STAGING PLANS MUST MAINTAIN AIRPORT OPERATIONS TO THE SATISFACTION OF THE AIRPORT MANAGER.

**2. HAUL ROAD / STAGING AREA RESTORATION**

ALL EXISTING PAVEMENTS, DRIVES OR ANY OTHER AREAS USED AS A HAUL ROAD OR STAGING AREA BY THE CONTRACTOR SHALL BE RESTORED IN KIND TO THEIR PRE-CONSTRUCTION CONDITION OR TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT DIRECTOR OF OPERATIONS. THE COST OF MAINTAINING, REPAIRING SEEDING / MULCHING OR CONSTRUCTING THESE PAVEMENTS / AREAS SHALL BE INCIDENTAL TO THE CONTRACT.

**3. AIRPORT APPROVAL OF PHASING**

THE RESIDENT ENGINEER AND AIRPORT MANAGER OR HIS DESIGNATED REPRESENTATIVE SHALL HAVE FINAL SAY IN THE APPROVAL OF THE CONSTRUCTION OPERATING SEQUENCE AS IT RELATES TO PEDESTRIAN, VEHICULAR AND AIRCRAFT OPERATIONS. AIRCRAFT OPERATIONS HAVE THE RIGHT-OF-WAY ON THE AIRFIELD. VEHICULAR TRAFFIC AND CONTRACTOR ACTIVITIES SHALL YIELD TO AIRCRAFT OPERATIONS. SHOULD IT BE NECESSARY FOR THE CONTRACTOR TO TEMPORARILY RELOCATE EQUIPMENT AT ANY TIME TO ALLOW AN AIRCRAFT TO PASS, THE CONTRACTOR SHALL DO SO IMMEDIATELY AT NO EXTRA COST TO THE OWNER.

**4. AIRFIELD PAVEMENT DEBRIS REMOVAL**

THE CONTRACTOR SHALL KEEP ALL TRUCKS, EQUIPMENT AND MATERIALS OFF OF THE EXISTING RUNWAYS AND TAXIWAYS OUTSIDE OF THE PROJECT LIMITS EXCEPT AS SHOWN OR WITH THE PRIOR PERMISSION OF THE RESIDENT ENGINEER. SHOULD THE CONTRACTOR TRACK ANY DEBRIS ONTO EXISTING PAVEMENTS, THIS DEBRIS SHALL BE REMOVED IMMEDIATELY WITH A PICK UP SWEEPER. A PICK UP SWEEPER SHALL BE REQUIRED TO BE ON SITE AND OPERATE DURING ALL CONSTRUCTION OPERATION WORKING HOURS.

**5. PROJECT LIGHTING OUTSIDE OF DAYLIGHT HOURS**

WORK PERFORMED BY THE CONTRACTOR OUTSIDE OF DAYLIGHT HOURS SHALL BE DONE UNDER SUFFICIENT ARTIFICIAL AREA LIGHTING TO ALLOW FOR PROPER CONSTRUCTION METHODS AND INSPECTIONS. LIGHT SHALL CONSIST OF MOVEABLE POLE MOUNTED FLOODLIGHTS AND/OR SPOTLIGHTS OF SUFFICIENT NUMBER TO ILLUMINATE THE WORK AREA. VEHICLE HEADLIGHTS WILL BE ALLOWED ONLY IN ADDITION TO OTHER LIGHTS MENTIONED ABOVE. LIGHTING SHALL BE AS APPROVED BY THE RESIDENT ENGINEER AND SHALL NOT BE USED IF THEY AFFECT FLIGHT SAFETY.

**6. EXISTING UTILITY COORDINATION**

COORDINATION BY THE CONTRACTOR WITH THE EXISTING UTILITIES SHALL BE COMPLETED BEFORE CONSTRUCTION IS STARTED. SEE SECTION 50-17 OF THE SPECIAL PROVISIONS FOR SPECIFIC REQUIREMENTS. THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER, THE CONSULTANT NOR THE DIVISION ASSUMES ANY RESPONSIBILITY WHATEVER IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES AS INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OF HIS OPERATIONAL PLANS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR DETAILED INFORMATION AND ASSISTANCE IN LOCATING UTILITIES. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY, THE OWNER AND THE RESIDENT ENGINEER. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.

**7. AIRFIELD LIGHTING COORDINATION**

THE CONTRACTOR SHALL BE REQUIRED TO ESTABLISH A COORDINATION PLAN WITH THE AIRPORT MANAGER OR HIS DESIGNATED REPRESENTATIVE, REGARDING DE-ENERGIZING AND ENERGIZING OF THE AIRFIELD LIGHTING CIRCUITS AT THE START AND END OF EACH CONSTRUCTION DAY.

**8. TRAFFIC CONTROL PAYMENT**

PAYMENT FOR TRAFFIC CONTROL INCLUDING, BUT NOT LIMITED TO, TEMPORARY CONSTRUCTION FENCING, BARRICADES, SIGNING, AIR OPERATIONS AREA (A.O.A.) LATH AND RIBBON, ETC. SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. TYPE 2 BARRICADES WITH FLASHING LIGHTS SHALL BE PLACED ON 15' CENTERS. TYPE 2 BARRICADES SHALL BE PLACED AS SHOWN ON THIS PLAN AND AS DIRECTED BY THE RESIDENT ENGINEER FOR WORK ADJACENT TO THE EXPEDITED WORK AREA. WHEN NOT IN USE, THESE BARRICADES SHALL BE STORED AT THE CONTRACTOR'S STAGING AREA OR OFF SITE.

**9. AIRFIELD FENCING / GATE SECURITY** ALL EXISTING AND PROPOSED FENCE LINES, EXCEPT AS OTHERWISE NOTED, SHALL BE MAINTAINED AND SHALL SERVE AS CONSTRUCTION FENCING AROUND THE PERIMETER OF THE PROJECT. ALL EXISTING GATES SHALL BE MAINTAINED, CLOSED AND LOCKED AS DIRECTED BY THE AIRPORT OWNER'S REPRESENTATIVE. SHOULD THE CONTRACTOR CHOOSE TO KEEP A GATE OPEN FOR CONSTRUCTION OPERATIONS, A COMPETENT SECURITY GUARD SHALL MONITOR THE OPEN GATE. ANY COSTS SHALL NOT BE PAID FOR SEPARATELY, BUT THEY WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

**10. AIRPORT RADIO COMMUNICATION**

THE CONTRACTOR SHALL SUPPLY AND HAVE IN THEIR POSSESSION AT ALL TIMES AT LEAST ONE AIRPORT RADIO. IN THE EVENT THAT THE AIRPORT MANAGER NEEDS TO CONTACT THE CONTRACTOR DIRECTLY, THE OPERATOR OF SAID RADIO SHALL BE FAMILIAR WITH AIRPORT RADIO PROCEDURES AND BE TUNED INTO THE GROUND CONTROL FREQUENCY.

**11. DRIVERS TRAINING AND BADGING**

SUPERVISORY PERSONNEL SHALL DEMONSTRATE IN THE PRESENCE OF THE AIRPORT MANAGER THAT THEY ARE FAMILIAR WITH AIRPORT RADIO AND AIRPORT DRIVING PROCEDURES IN ORDER TO PERFORM THE WORK. OTHER CONSTRUCTION PERSONNEL CAN BE WITHIN THE AIRFIELD LIMITS PROVIDED THAT THEY ARE UNDER ESCORT AND IN THE PRESENCE OF AN AUTHORIZED SUPERVISOR. KNOWLEDGE OF THE AIRPORT PROCEDURE'S BY THE SUPERVISORY PERSONNEL MUST BE DEMONSTRATED PRIOR TO THE START OF CONSTRUCTION.

**12. DUST CONTROL REQUIREMENTS**

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE DUST CONTROL AT ALL TIMES DURING THE PROJECT DURATION. A WATER TRUCK SHALL BE REQUIRED TO BE ON SITE DURING ALL CONSTRUCTION OPERATION WORKING HOURS. PAYMENT FOR DUST CONTROL SHALL BE INCIDENTAL TO THE CONTRACT.

**13. OPERATIONAL SAFETY ON AIRPORT DURING CONSTRUCTION (AC 150/5370-2 LATEST EDITION)**

ALL WORK SHALL CONFORM TO AC 150/5370-2E LATEST EDITION OPERATIONAL SAFETY ON AIRPORT DURING CONSTRUCTION. THIS AC IS AVAILABLE AT [http://www.faa.gov/airports\\_airtraffic/airports/resources/advisory\\_circulars/media/150-5370-2E/150\\_5370\\_2e.pdf](http://www.faa.gov/airports_airtraffic/airports/resources/advisory_circulars/media/150-5370-2E/150_5370_2e.pdf)

**14. STAGING AREA**

THE CONTRACTOR'S MATERIAL AND EQUIPMENT, WHEN NOT IN USE, SHALL BE STORED IN THE CONTRACTOR'S STAGING AREA. ALL DELIVERIES, EQUIPMENT RE-FUELING, EQUIPMENT MAINTENANCE AND EQUIPMENT TRANSFERS SHALL TAKE PLACE WITHIN THE CONTRACTOR'S STAGING AREA.

(ADD. PROJ. GEN. NOTES CONTD. SHT. CPS1)  
(APPLY TO ALL STAGES):

**CONSTRUCTION PHASING PLAN**

WH009



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CONSULTING ENGINEERS

Whiteside County **AIRPORT**  
JOSEPH H. BITTORF FIELD

Whiteside County  
Airport

Sterling / Rock Falls,  
Illinois

Whiteside County  
Airport

AIP: 3-17-0098- B16  
SQI-3910

REHABILITATE  
SOUTH TERMINAL  
APRON

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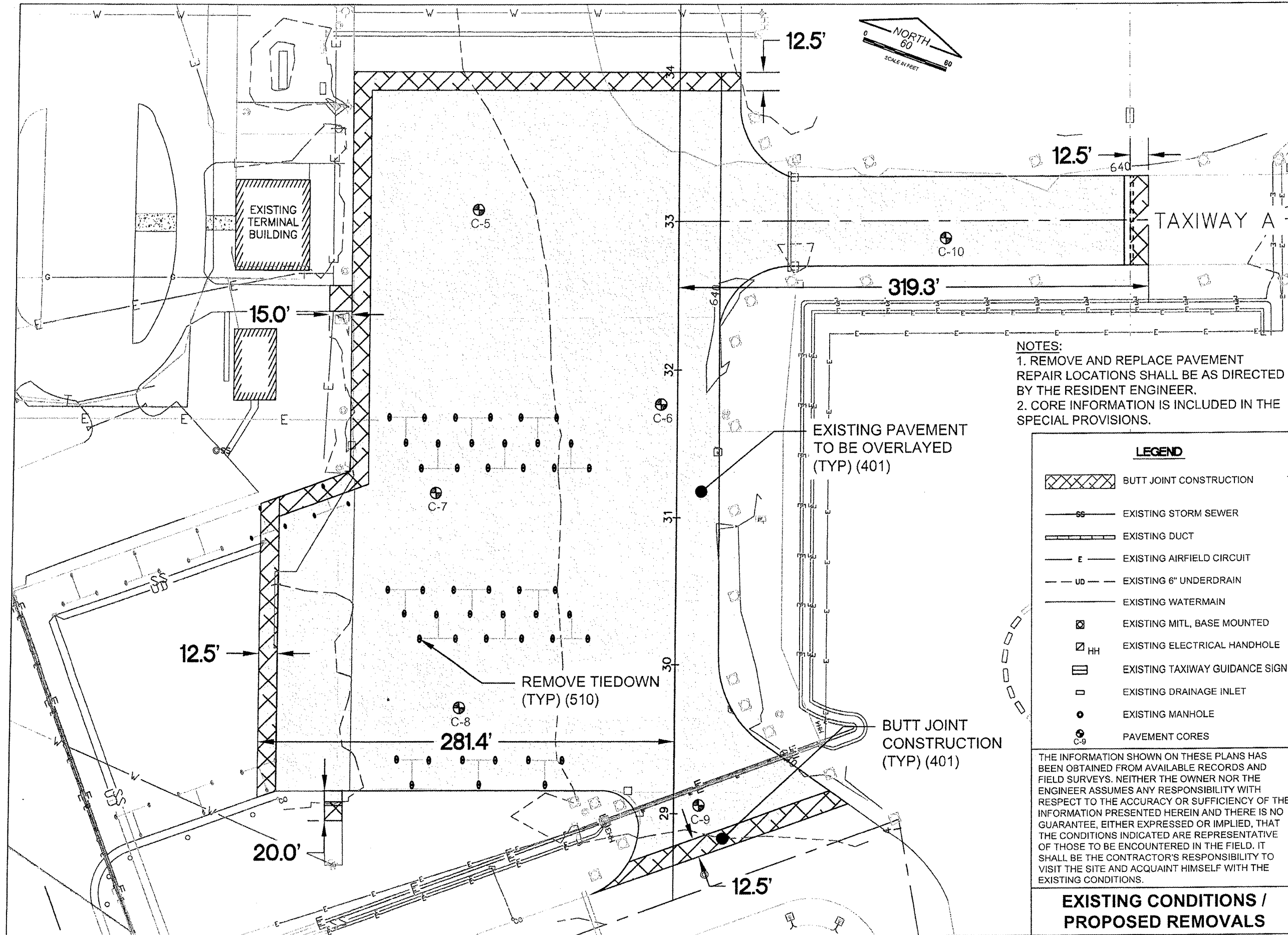
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**CONSTRUCTION PHASING PLAN (CPP1)**

05

SHEET 05 OF 11 SHEETS





**NOTES:**  
 1. REMOVE AND REPLACE PAVEMENT REPAIR LOCATIONS SHALL BE AS DIRECTED BY THE RESIDENT ENGINEER.  
 2. CORE INFORMATION IS INCLUDED IN THE SPECIAL PROVISIONS.

**LEGEND**

|  |                                |
|--|--------------------------------|
|  | BUTT JOINT CONSTRUCTION        |
|  | EXISTING STORM SEWER           |
|  | EXISTING DUCT                  |
|  | EXISTING AIRFIELD CIRCUIT      |
|  | EXISTING 6" UNDERDRAIN         |
|  | EXISTING WATERMAIN             |
|  | EXISTING MITL, BASE MOUNTED    |
|  | EXISTING ELECTRICAL HANDHOLE   |
|  | EXISTING TAXIWAY GUIDANCE SIGN |
|  | EXISTING DRAINAGE INLET        |
|  | EXISTING MANHOLE               |
|  | PAVEMENT CORES                 |

THE INFORMATION SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM AVAILABLE RECORDS AND FIELD SURVEYS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WITH RESPECT TO THE ACCURACY OR SUFFICIENCY OF THE INFORMATION PRESENTED HEREIN AND THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE CONDITIONS INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE FIELD. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND ACQUAINT HIMSELF WITH THE EXISTING CONDITIONS.

**EXISTING CONDITIONS / PROPOSED REMOVALS**

WH009



Whiteside County **AIRPORT**  
 JOSEPH H. BITTORF FIELD

Whiteside County Airport

Sterling / Rock Falls, Illinois

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REHABILITATE SOUTH TERMINAL APRON

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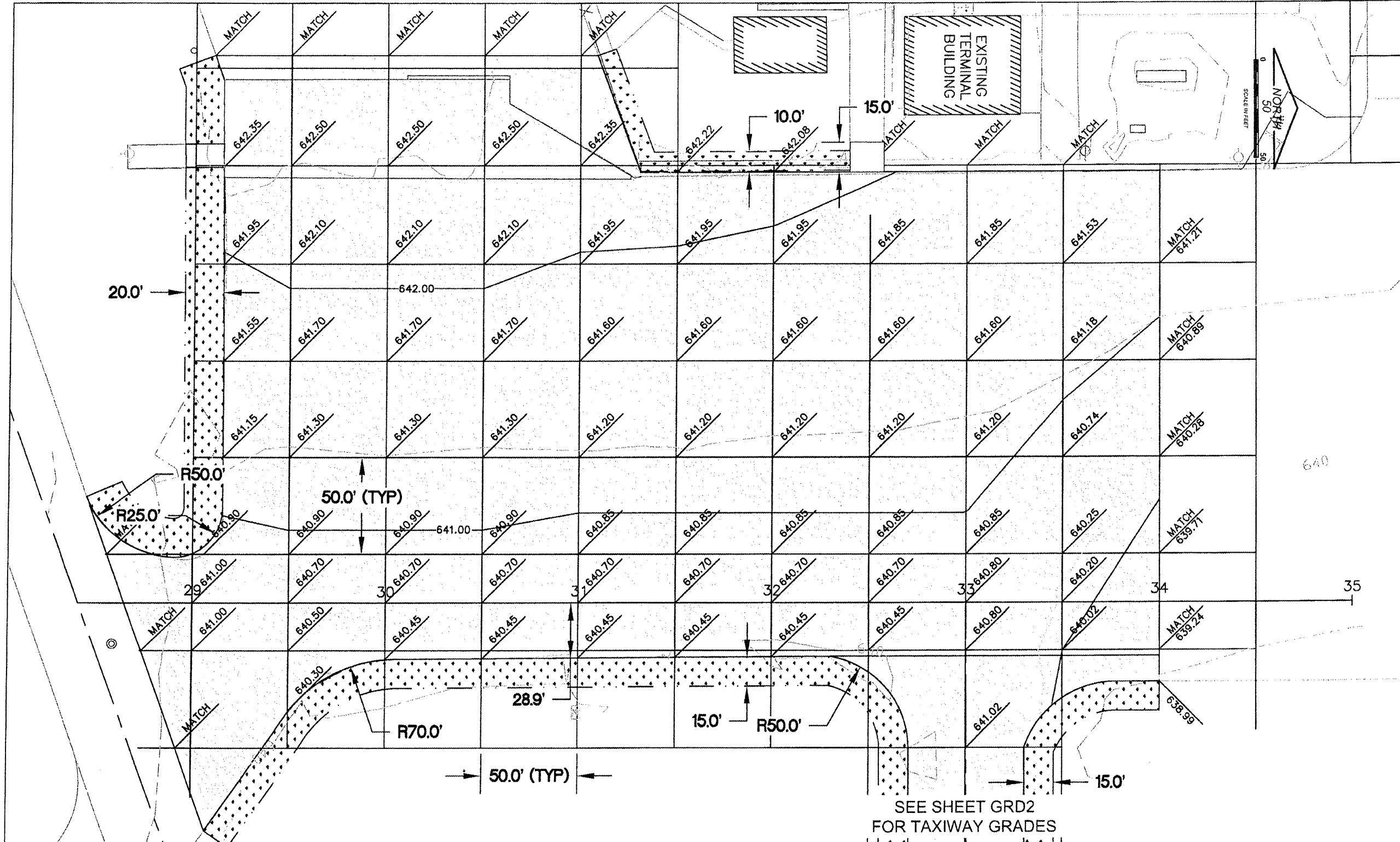
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**EXISTING CONDITIONS / PROPOSED REMOVALS (SPL1)**

07  
 SHEET 07 OF 11 SHEETS



WH009  
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 CONSULTING ENGINEERS

Whiteside County **AIRPORT**  
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**APRON  
 GRADING PLAN  
 (GRD1)**

8  
 SHEET 8 OF 11 SHEETS

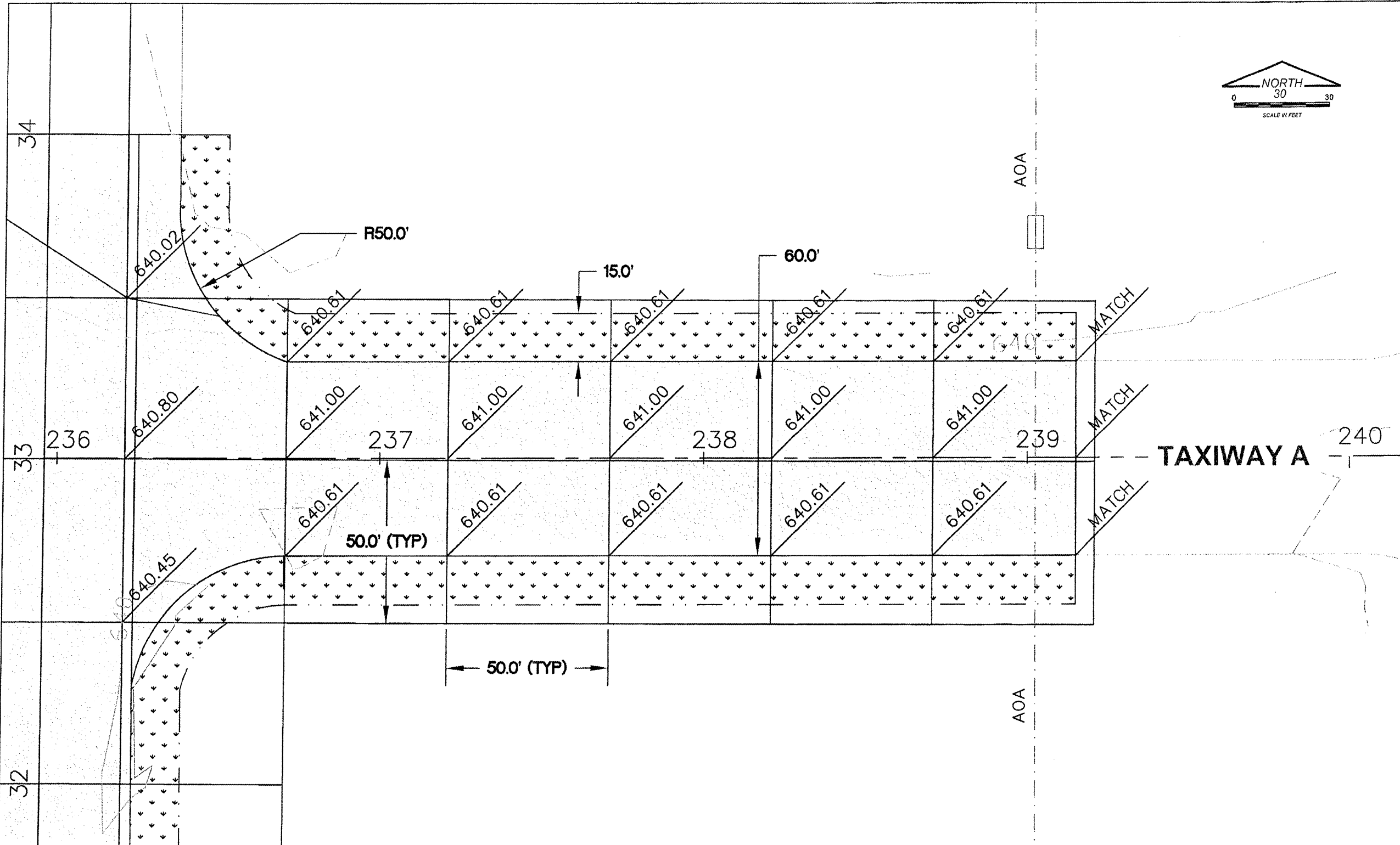
**LEGEND**

|  |                        |  |        |                       |
|--|------------------------|--|--------|-----------------------|
|  | NEW IMPROVEMENTS       |  | 725    | NEW CONTOUR           |
|  | NEW LANDSCAPING LIMITS |  | 725.00 | NEW ELEVATION         |
|  | EXISTING CONTOUR       |  |        | NEW LIMITS OF GRADING |

SEE SHEET GRD2  
 FOR TAXIWAY GRADES

**APRON GRADING PLAN**





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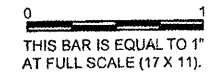
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**TAXIWAY A  
GRADING PLAN  
(GRD2)**

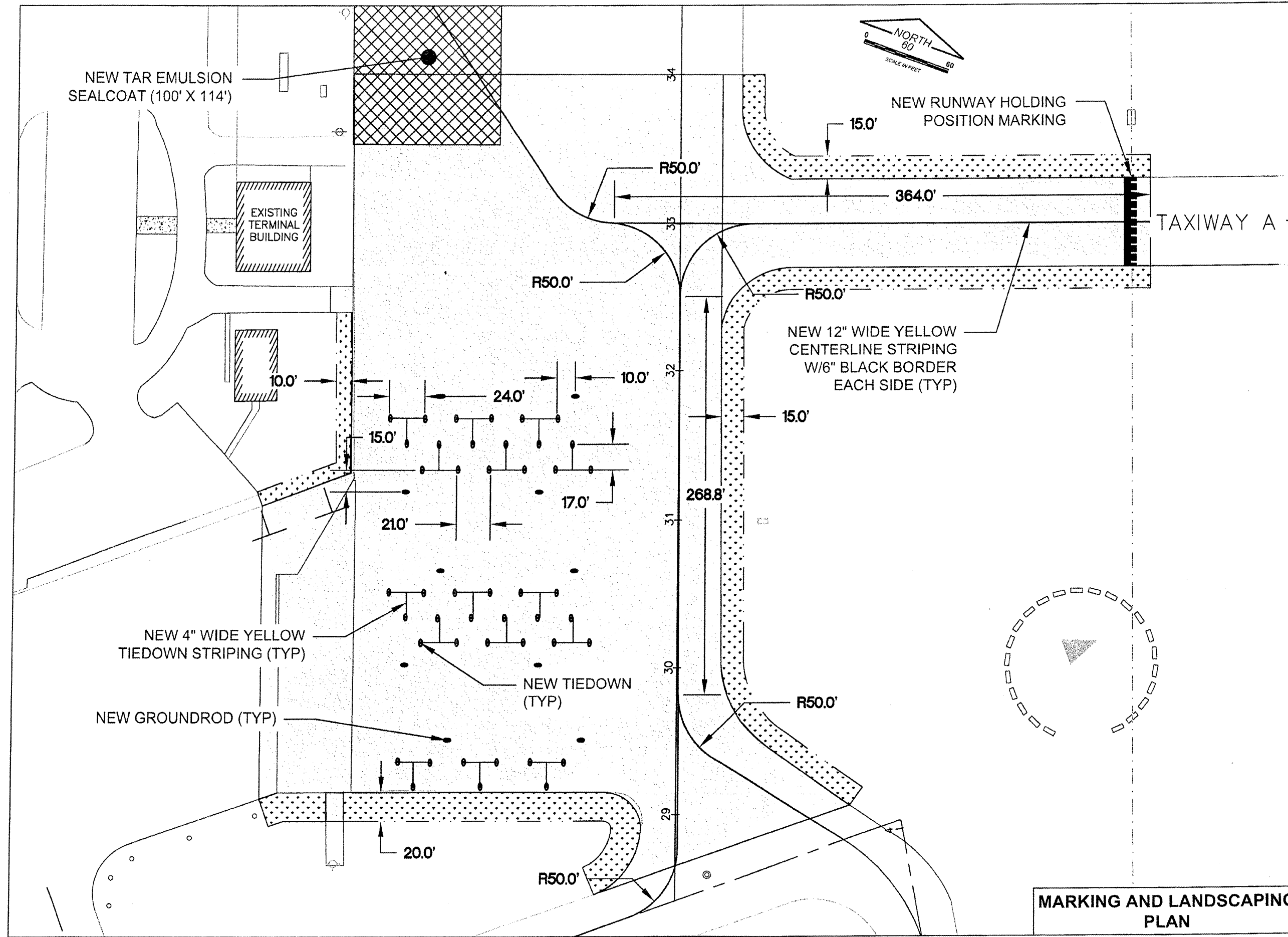
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SHEET 09 OF 11 SHEETS

**LEGEND**

- NEW IMPROVEMENTS
- NEW LANDSCAPING LIMITS
- EXISTING CONTOUR
- 725 NEW CONTOUR
- 725.00 NEW ELEVATION
- NEW LIMITS OF GRADING

**TAXIWAY A  
GRADING PLAN**



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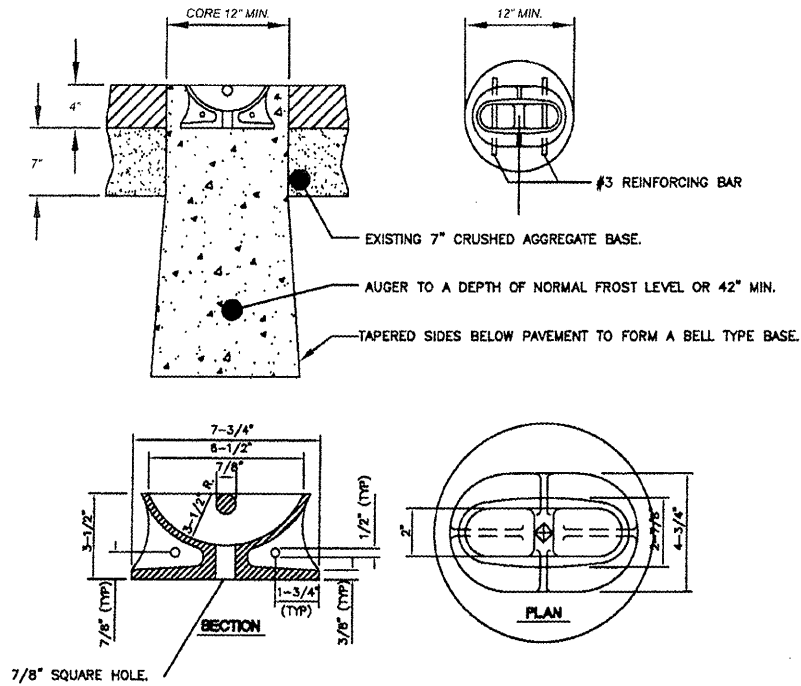
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**MARKING AND  
LANDSCAPING  
PLAN  
(MRK1)**

10

SHEET 10 OF 11 SHEETS

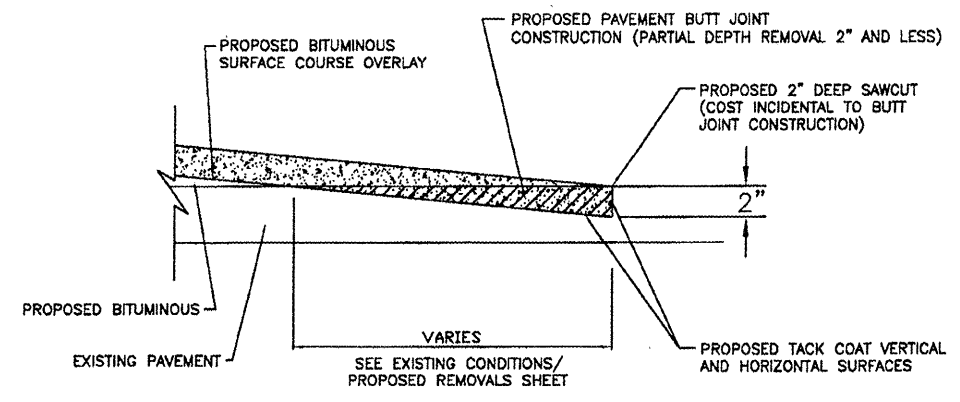
**MARKING AND LANDSCAPING  
PLAN**



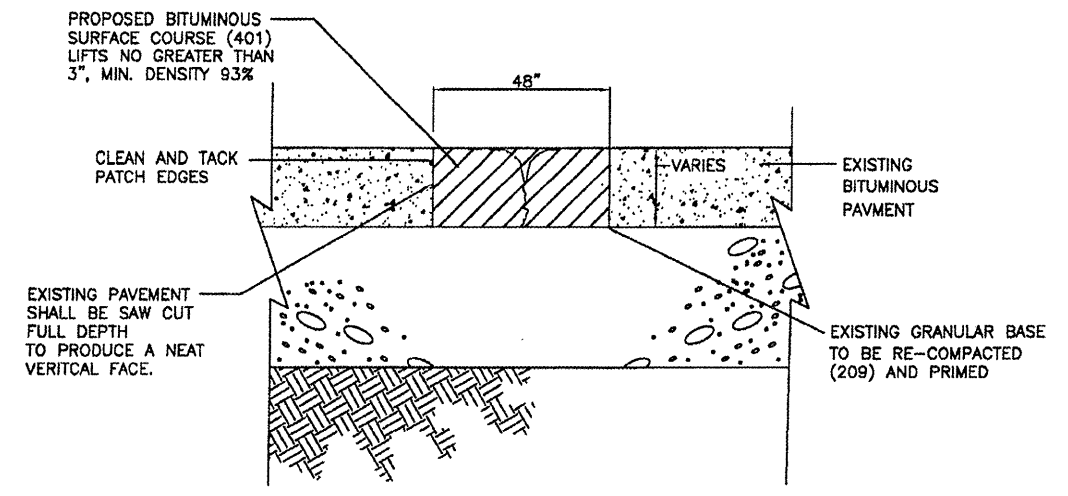
**MOORING EYE DETAIL**  
N.T.S.

**NOTES**

- 1.) MOORING CASTINGS SHALL BE NEENAH SEMI-STEEL AIRPORT MOORING EYE CATALOG NO. R3490 OR APPROVED EQUIVALENT.
- 2.) ANCHOR RODS SHALL BE #3 DEFORMED REBAR, 15" LONG AND SHALL BE BENT DOWNWARD AT 45°.
- 3.) MOORING EYES IN PROPOSED P.C.C. PAVEMENT SHALL BE INSTALLED DURING THE PAVING OPERATION WHILE CONCRETE IS STILL PLASTIC.

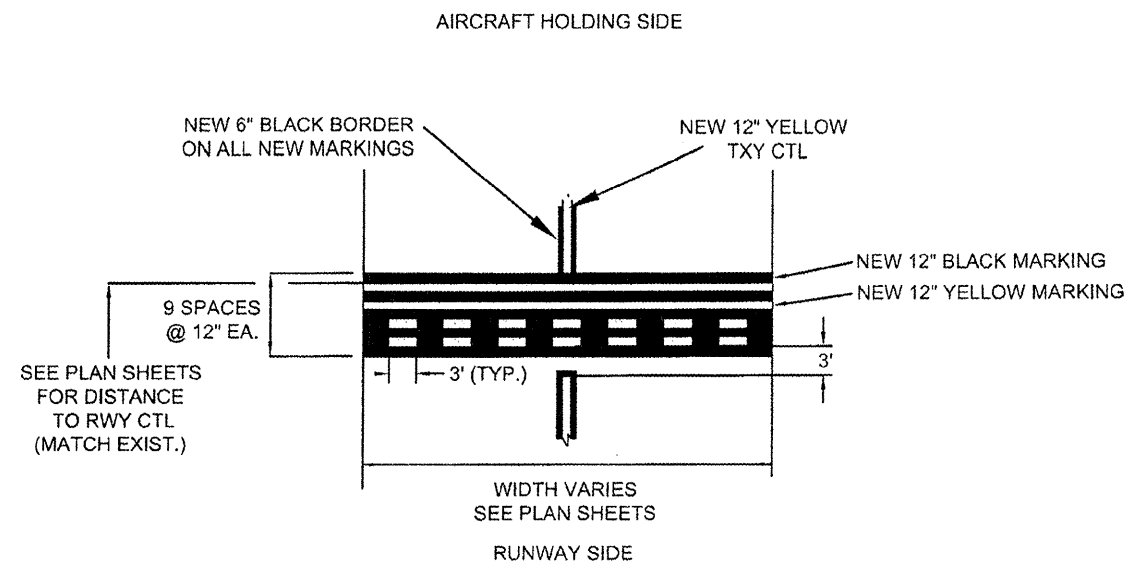


**BUTT JOINT DETAIL**  
NO SCALE



**PROPOSED REPAIR METHOD FOR FULL DEPTH PATCHING (REMOVE AND REPLACE BITUMINOUS PAVEMENT)**  
NO SCALE

COST OF PAVEMENT REMOVAL AND PAVEMENT PATCHING SHALL BE PART OF THIS ITEM (REMOVE AND REPLACE BITUMINOUS PAVEMENT).



**RUNWAY HOLDING POSITION MARKING**  
NO SCALE

WH009



Whiteside County **AIRPORT**  
JOSEPH H. BITTORF FIELD

Whiteside County Airport

Sterling / Rock Falls, Illinois

Whiteside County Airport

AIP: 3-17-0098-SQI-3910

B16

REHABILITATE SOUTH TERMINAL APRON

| Revisions |      |             |
|-----------|------|-------------|
| No.       | Date | Description |
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0 1  
THIS BAR IS EQUAL TO 1" AT FULL SCALE (17 X 11).

DESIGN BY: CMT-RFD  
DRAWN BY: CMT-RFD  
CHECKED BY: CMT-RFD  
APPROVED BY: JGP  
DATE: 04.17.09  
JOB No: 09292-02-00

MISCELLANEOUS DETAILS (DTL1)

MISCELLANEOUS DETAILS

11

SHEET 11 OF 11 SHEETS