

WHITESIDE COUNTY AIRPORT BOARD WHITESIDE COUNTY, ILLINOIS

Whiteside County AIRPORT
JOSEPH H. BITTORF FIELD

WHITESIDE COUNTY AIRPORT BOARD

APPROVED BY DAVE KOSTER, PRESIDENT

DATE JANUARY 12, 2018

CONSTRUCTION PLANS FOR WHITESIDE COUNTY AIRPORT

REHABILITATE AIRFIELD SIGNAGE SYSTEM AND TAXIWAY ALPHA'S MEDIUM INTENSITY TAXIWAY LIGHTING (MITL)

DESIGN INFORMATION

TOWNSHIP: 20 NORTH COUNTY: WHITESIDE
RANGE: 7 EAST MONTMORENCY TOWNSHIP
SECTION: 10
AIRPLANE DESIGN GROUP C3 (7/25)
AIRPLANE DESIGN GROUP B2 (18/36)
(MAXIMUM EQUIPMENT HEIGHT = 25')

ILLINOIS PROJECT: SQI-4585
SBG PROJECT: 3-17-SBGP-139

JANUARY 12, 2018

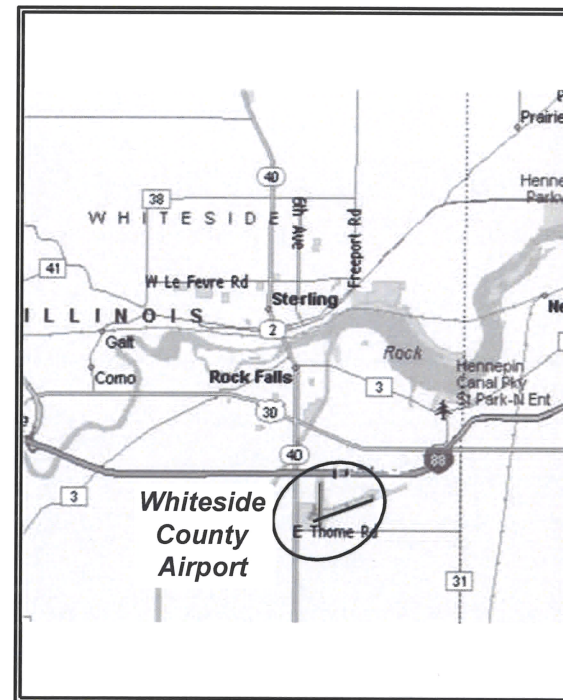


Illinois Professional Engineering Practice Act of 1989

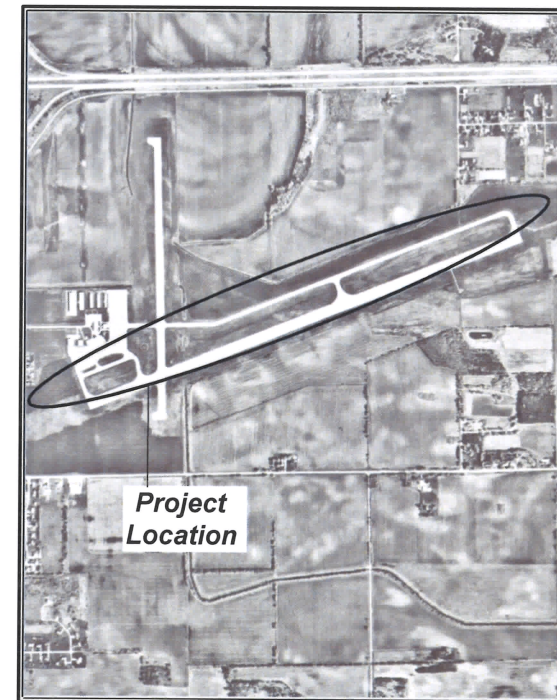


Douglas J. Klonowski

DATE JANUARY 12, 2018
license expires 11/30/2019



LOCATION MAP



SITE PLAN

INDEX TO SHEETS



1. COVER SHEET
2. SUMMARY OF QUANTITIES
3. SITE PLAN
4. CONSTRUCTION ACTIVITY PLAN
5. CONSTRUCTION ACTIVITY PLAN AND NOTES
6. CONSTRUCTION ACTIVITY PLAN DETAILS
7. ELECTRICAL AND SIGNAGE PLAN - 1
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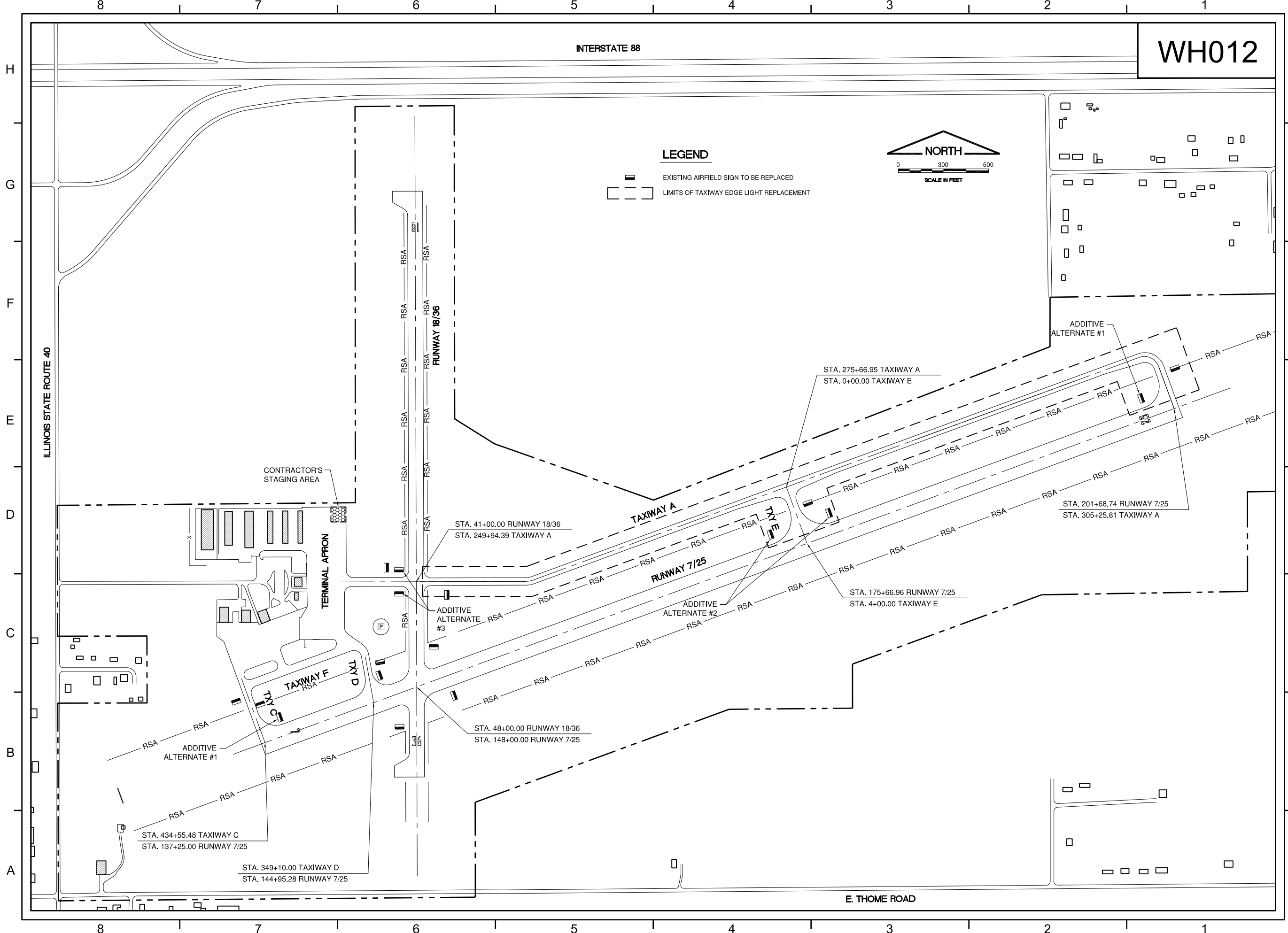
INTERSTATE 88

ILLINOIS STATE ROUTE 40

E. THOME ROAD

LEGEND

-  EXISTING AIRFIELD SIGN TO BE REPLACED
-  LIMITS OF TAXIWAY EDGE LIGHT REPLACEMENT



Whiteside County Airport
Sterling/Rock Falls, Illinois

Whiteside County
Airport Board

SBG Proj: 3-17-SBGP-139
IL Proj: SQI-4585

APPROVED AS WORKING PLAN
BY:

REV	DATE	DESCRIPTION

PROJECT NAME:
**REHABILITATE AIRFIELD
SIGNAGE SYSTEM AND
TAXIWAY ALPHA'S MEDIUM
INTENSITY TAXIWAY
LIGHTING (MITL)**

SHEET TITLE:
SITE PLAN

DESIGNED: ABM DRAWN: JRO CHECKED: DJK

PROJECT NO.: 17292-02-00
DATE: 1-12-2018

SHEET NO. **3** REVISION

SHEET 3 OF 14 SHEETS

WH012



- LEGEND**
- PHASE 1 WORK AREA
 - PHASE 1 EXPEDITED WORK AREA
 - PHASE 2 WORK AREA
 - PHASE 3 WORK AREA
 - PHASE 4 WORK AREA
 - CONTRACTOR'S CONSTRUCTION ACCESS / HAUL ROAD
 - RSA - RUNWAY SAFETY AREA (R.S.A.)
 - ROFZ - RUNWAY OBJECT FREE ZONE (R.O.F.Z.)
 - RUNWAY CLOSURE MARKER
 - LOW PROFILE BARRICADES

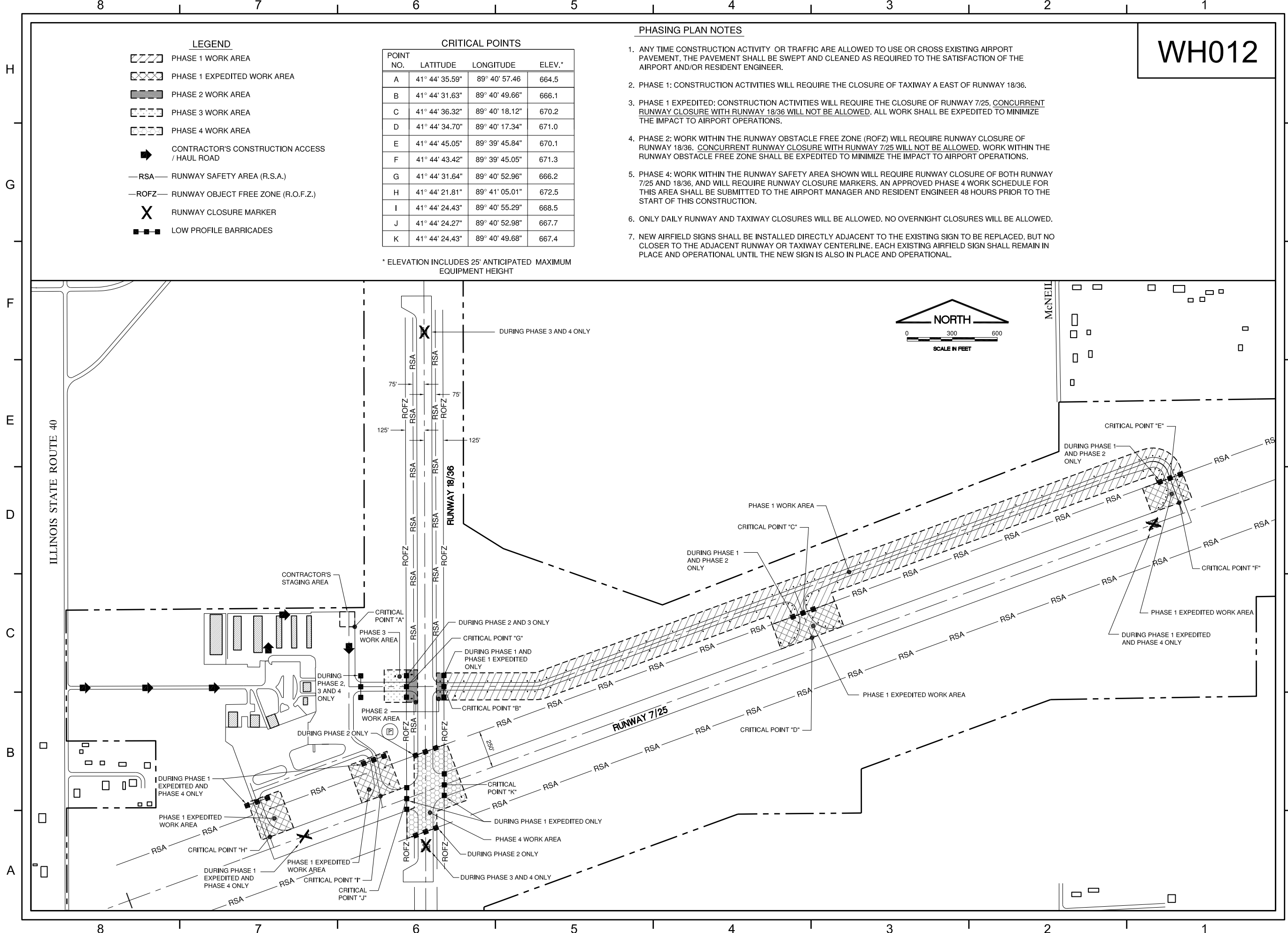
CRITICAL POINTS

POINT NO.	LATITUDE	LONGITUDE	ELEV. *
A	41° 44' 35.59"	89° 40' 57.46"	664.5
B	41° 44' 31.63"	89° 40' 49.66"	666.1
C	41° 44' 36.32"	89° 40' 18.12"	670.2
D	41° 44' 34.70"	89° 40' 17.34"	671.0
E	41° 44' 45.05"	89° 39' 45.84"	670.1
F	41° 44' 43.42"	89° 39' 45.05"	671.3
G	41° 44' 31.64"	89° 40' 52.96"	666.2
H	41° 44' 21.81"	89° 41' 05.01"	672.5
I	41° 44' 24.43"	89° 40' 55.29"	668.5
J	41° 44' 24.27"	89° 40' 52.98"	667.7
K	41° 44' 24.43"	89° 40' 49.68"	667.4

* ELEVATION INCLUDES 25' ANTICIPATED MAXIMUM EQUIPMENT HEIGHT

PHASING PLAN NOTES

- ANY TIME CONSTRUCTION ACTIVITY OR TRAFFIC ARE ALLOWED TO USE OR CROSS EXISTING AIRPORT PAVEMENT, THE PAVEMENT SHALL BE SWEEPED AND CLEANED AS REQUIRED TO THE SATISFACTION OF THE AIRPORT AND/OR RESIDENT ENGINEER.
- PHASE 1: CONSTRUCTION ACTIVITIES WILL REQUIRE THE CLOSURE OF TAXIWAY A EAST OF RUNWAY 18/36.
- PHASE 1 EXPEDITED: CONSTRUCTION ACTIVITIES WILL REQUIRE THE CLOSURE OF RUNWAY 7/25, CONCURRENT RUNWAY CLOSURE WITH RUNWAY 18/36 WILL NOT BE ALLOWED. ALL WORK SHALL BE EXPEDITED TO MINIMIZE THE IMPACT TO AIRPORT OPERATIONS.
- PHASE 2: WORK WITHIN THE RUNWAY OBSTACLE FREE ZONE (ROFZ) WILL REQUIRE RUNWAY CLOSURE OF RUNWAY 18/36. CONCURRENT RUNWAY CLOSURE WITH RUNWAY 7/25 WILL NOT BE ALLOWED. WORK WITHIN THE RUNWAY OBSTACLE FREE ZONE SHALL BE EXPEDITED TO MINIMIZE THE IMPACT TO AIRPORT OPERATIONS.
- PHASE 4: WORK WITHIN THE RUNWAY SAFETY AREA SHOWN WILL REQUIRE RUNWAY CLOSURE OF BOTH RUNWAY 7/25 AND 18/36, AND WILL REQUIRE RUNWAY CLOSURE MARKERS. AN APPROVED PHASE 4 WORK SCHEDULE FOR THIS AREA SHALL BE SUBMITTED TO THE AIRPORT MANAGER AND RESIDENT ENGINEER 48 HOURS PRIOR TO THE START OF THIS CONSTRUCTION.
- ONLY DAILY RUNWAY AND TAXIWAY CLOSURES WILL BE ALLOWED. NO OVERNIGHT CLOSURES WILL BE ALLOWED.
- NEW AIRFIELD SIGNS SHALL BE INSTALLED DIRECTLY ADJACENT TO THE EXISTING SIGN TO BE REPLACED, BUT NO CLOSER TO THE ADJACENT RUNWAY OR TAXIWAY CENTERLINE. EACH EXISTING AIRFIELD SIGN SHALL REMAIN IN PLACE AND OPERATIONAL UNTIL THE NEW SIGN IS ALSO IN PLACE AND OPERATIONAL.



Whiteside County Airport
Sterling/Rock Falls, Illinois

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BY:

REV	DATE	DESCRIPTION

PROJECT NAME:
REHABILITATE AIRFIELD
SIGNAGE SYSTEM AND
TAXIWAY ALPHA'S MEDIUM
INTENSITY TAXIWAY
LIGHTING (MITL)

SHEET TITLE:
**CONSTRUCTION
ACTIVITY PLAN**

DESIGNED: ABM DRAWN: JRO CHECKED: DJK

PROJECT NO.: 17292-02-00
DATE: 1-12-2018

SHEET NO. **4** REVISION

SHEET 4 OF 14 SHEETS

APPROVED AS WORKING PLAN		
BY:		
REV	DATE	DESCRIPTION

PROJECT NAME:
**REHABILITATE AIRFIELD
SIGNAGE SYSTEM AND
TAXIWAY ALPHA'S MEDIUM
INTENSITY TAXIWAY
LIGHTING (MITL)**

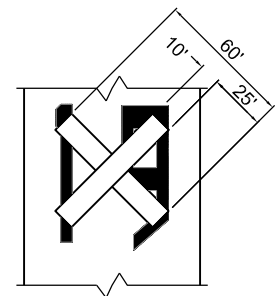
SHEET TITLE:
**CONSTRUCTION
ACTIVITY PLAN
DETAILS**

DESIGNED: ABM DRAWN: JRO CHECKED: DJK

PROJECT NO.: 17292-02-00
DATE: 1-12-2018

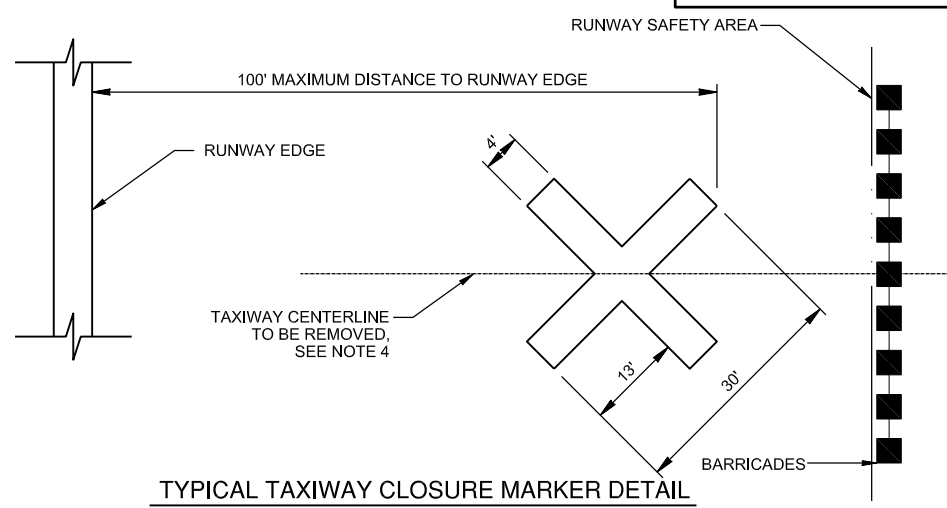
SHEET NO. **6** REVISION

SHEET 6 OF 14 SHEETS



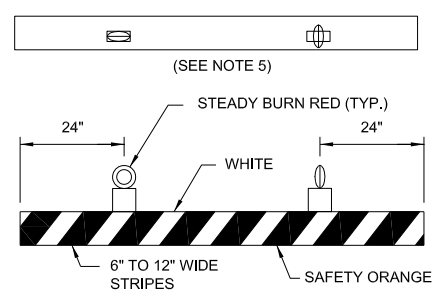
CLOSED RUNWAY MARKER DETAIL
NOT TO SCALE

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



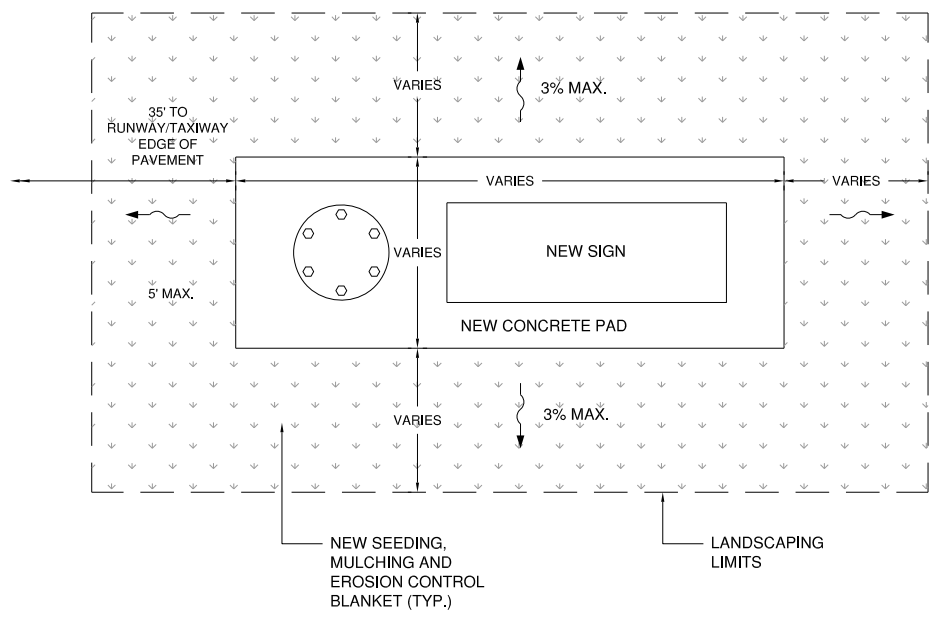
TYPICAL TAXIWAY CLOSURE MARKER DETAIL
NOT TO SCALE
TAXIWAY CLOSURE MARKER NOTES

1. THE TAXIWAY CLOSURE MARKER CAN BE PAINTED WITH TEMPORARY MARKING CAPABLE OF BEING REMOVED WITH LOW PRESSURE WATER BLASTING, OR CAN BE ANOTHER MATERIAL THAT DOES NOT VIOLATE THE OFA CRITERIA AND IS APPROVED BY THE ENGINEER AND THE AIRPORT.
2. THE TAXIWAY CLOSURE MARKER SHALL BE YELLOW AND ADEQUATELY SECURED TO WITHSTAND JET BLAST OF 100 MPH.
3. THE MARKER SHALL BE PLACED OVER THE TAXIWAY CENTERLINE.
4. THE TAXIWAY LEAD-IN LINES AND CENTERLINE WITHIN THE RUNWAY SAFETY AREA (R.S.A.) SHALL BE REMOVED. THE REMOVAL OF THESE MARKINGS WILL NOT BE PAID FOR BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
5. THE INSTALLATION AND REMOVAL OF THE TAXIWAY CLOSURE MARKERS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
6. TAXIWAY CLOSURE MARKERS ARE ONLY REQUIRED FOR CLOSURES EXCEEDING 72 HOURS IN DURATION.

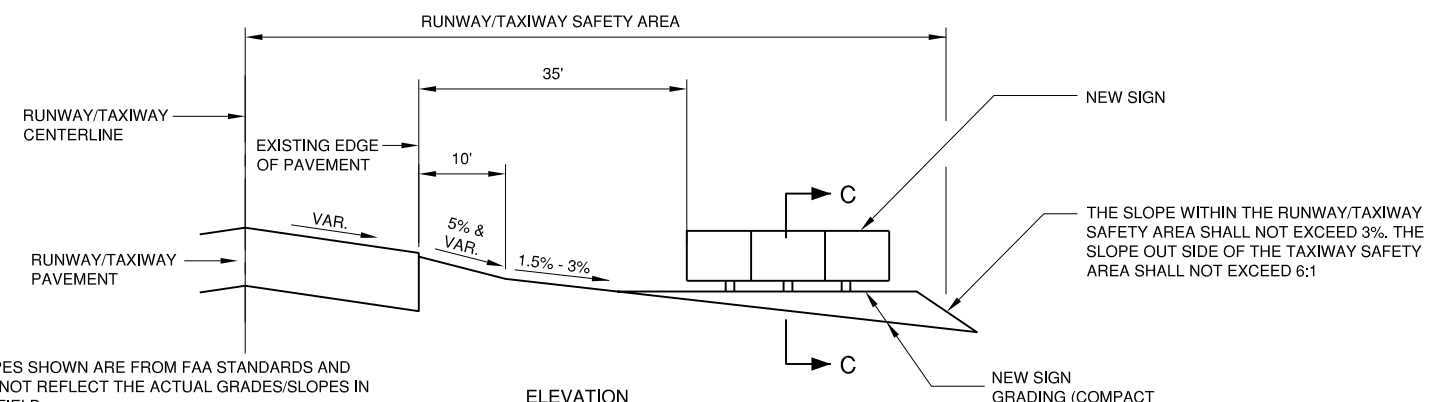


INTERLOCKING LOW PROFILE BARRICADES
ON PAVEMENT - NO SCALE

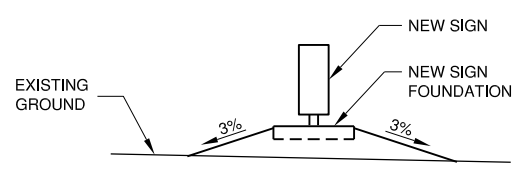
1. LOW PROFILE BARRICADES SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER. THE BARRICADES SHALL BE INTERLOCKED WITH NO GAPS BETWEEN BARRICADES. BARRICADES SHALL BE WEIGHTED WITH A MINIMUM OF 6 SAND BAGS TO PREVENT THEM FROM BEING BLOWN OVER.
2. THE BARRICADE LINE SHALL EXTEND ONE BARRICADE PAST THE EDGE OF PAVEMENT INTO THE TURF.
3. LIGHTS SHALL BE BATTERY OPERATED. LENS SHALL BE RED AND BE ABLE TO ROTATE 90°.
4. FACING OF BARRICADE SHALL BE COVERED WITH REFLECTIVE TAPE OR PAINT.
5. ALTERNATE LENSES SO THAT EVERY OTHER LENS IS ROTATED 90°.
6. BARRICADES SHALL BE OF LOW MASS, EASILY COLLAPSIBLE UPON CONTACT WITH AN AIRCRAFT OR ANY OF ITS COMPONENTS, AND WEIGHTED OR STURDILY ATTACHED TO THE SURFACE. IF AFFIXED TO THE SURFACE, THE BARRICADE MUST BE FRANGIBLE AT GRADE LEVEL OR AS LOW POSSIBLE, BUT NOT TO EXCEED 3 INCHES ABOVE THE GROUND.
7. ALL COST ASSOCIATED WITH THE LOW PROFILE BARRICADES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.



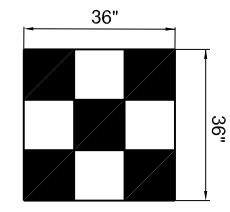
TYPICAL LANDSCAPING FOR NEW SIGN
NOT TO SCALE



ELEVATION



SECTION C-C



CONSTRUCTION EQUIPMENT AND TRUCK SIGNAL FLAG
NOT TO SCALE

- NOTES:
1. SLOPES SHOWN ARE FROM FAA STANDARDS AND MAY NOT REFLECT THE ACTUAL GRADES/SLOPES IN THE FIELD
 2. IT IS ESTIMATED THAT 2 C.Y. OF EMBANKMENT MAY BE REQUIRED TO CONSTRUCT THE SIGN BASE FOUNDATIONS. ALL MATERIAL USED TO CONSTRUCT THE EMBANKMENT SHALL BE APPROVED BY THE RESIDENT ENGINEER. ALL OFFSITE MATERIAL USED TO CONSTRUCT THE EMBANKMENT SHALL BE CATEGORIZED AS CLEAN CONSTRUCTION OR DEMOLITION DEBRIS IN ACCORDANCE WITH SECTION 152. COSTS TO CONSTRUCT THE EMBANKMENT SHALL BE INCIDENTAL TO THE SIGN PAY ITEM. ESTIMATED QUANTITY OF EMBANKMENT IS FOR INFORMATION ONLY AND NO ADDITIONAL COMPENSATION SHALL BE MADE FOR ANY ADDITIONAL EMBANKMENT NEEDED.
 3. ACTUAL LOCATION OF THE SIGN WITHIN THE SAFETY AREA WILL VARY DUE TO PAVEMENT WIDTHS AND VARIANCES IN SIGN FOUNDATION LENGTHS.

GRADING AIRFIELD SIGN DETAILS
N.T.S.

APPROVED AS WORKING PLAN
BY:

REV	DATE	DESCRIPTION

PROJECT NAME:
**REHABILITATE AIRFIELD
SIGNAGE SYSTEM AND
TAXIWAY ALPHA'S MEDIUM
INTENSITY TAXIWAY
LIGHTING (MITL)**

SHEET TITLE:
**ELECTRICAL AND
SIGNAGE PLAN - 1**

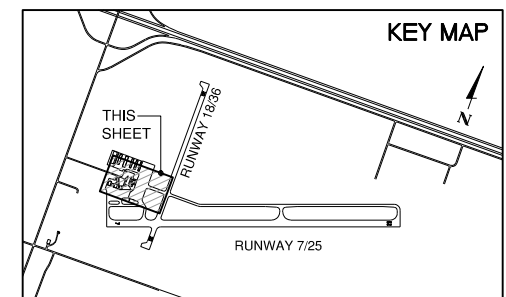
DESIGNED: ABM DRAWN: JRO CHECKED: DJK

PROJECT NO.: 17292-02-00
DATE: 1-12-2018

SHEET NO. **7** REVISION

SHEET 7 OF 14 SHEETS

WH012



NEW AIRFIELD SIGNAGE SCHEDULE			
NEW SIGN NUMBER	NEW SIGN FACE	NEW SIGN LEGEND	NEW SIGN TYPE
1	W E	9C - 9L A TERM	2,3 2,1
2	N S	BLANK	3 0
3	N S	INVTB A	0 3

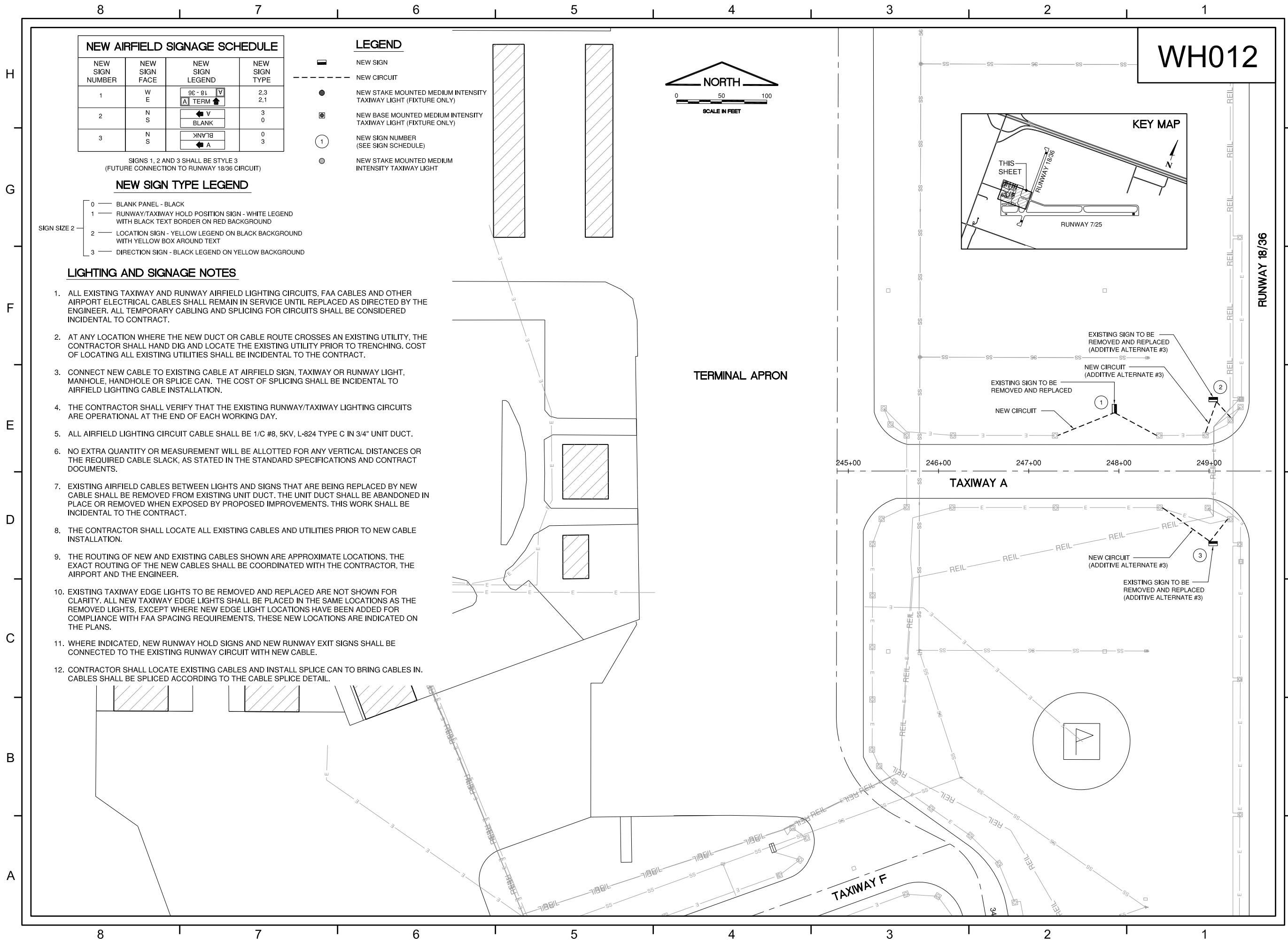
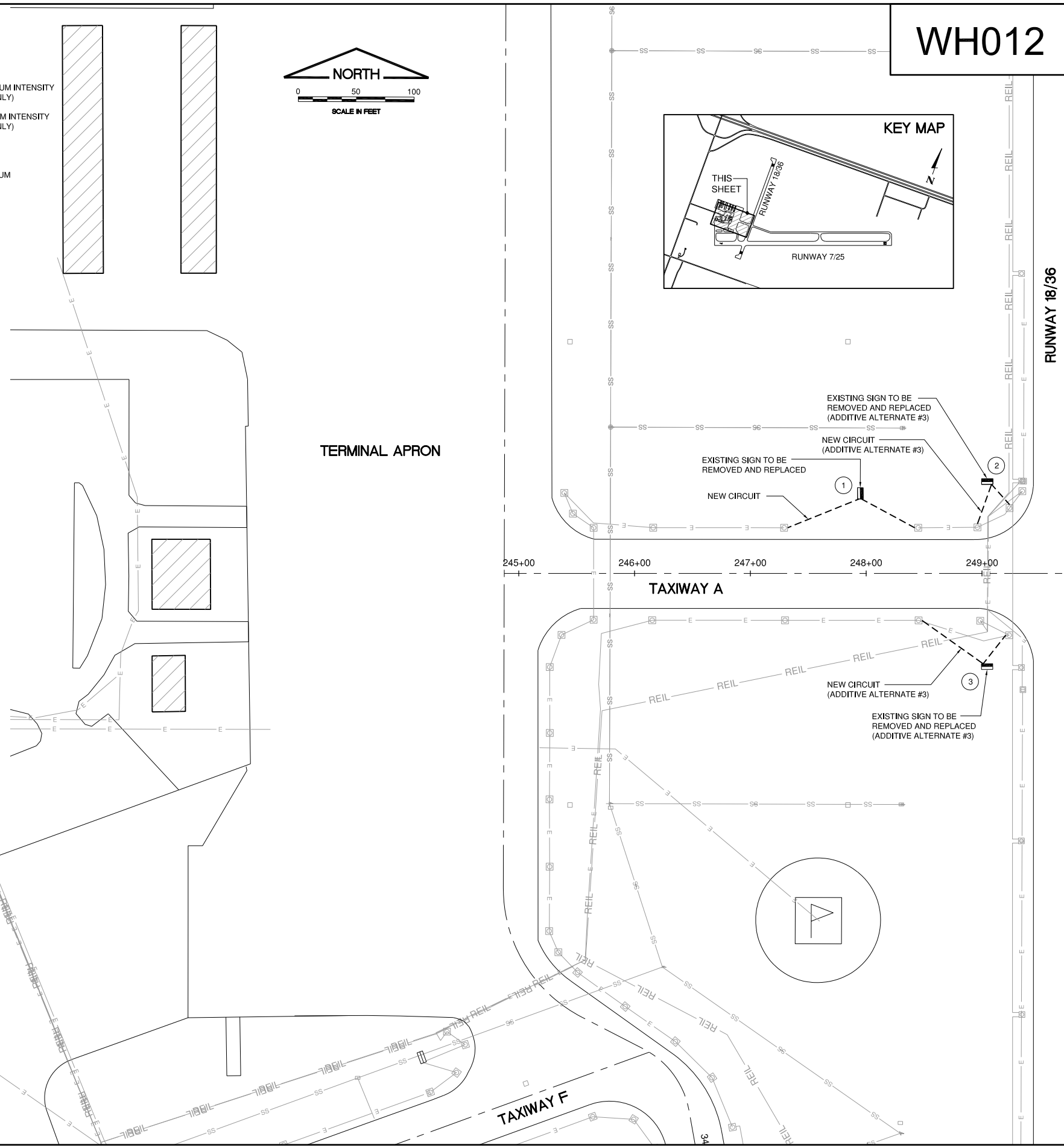
- LEGEND**
- NEW SIGN
 - - - - NEW CIRCUIT
 - NEW STAKE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT (FIXTURE ONLY)
 - ⊙ NEW BASE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT (FIXTURE ONLY)
 - ① NEW SIGN NUMBER (SEE SIGN SCHEDULE)
 - NEW STAKE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT

NEW SIGN TYPE LEGEND

- SIGN SIZE 2
- 0 — BLANK PANEL - BLACK
 - 1 — RUNWAY/TAXIWAY HOLD POSITION SIGN - WHITE LEGEND WITH BLACK TEXT BORDER ON RED BACKGROUND
 - 2 — LOCATION SIGN - YELLOW LEGEND ON BLACK BACKGROUND WITH YELLOW BOX AROUND TEXT
 - 3 — DIRECTION SIGN - BLACK LEGEND ON YELLOW BACKGROUND

LIGHTING AND SIGNAGE NOTES

1. ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER AIRPORT ELECTRICAL CABLES SHALL REMAIN IN SERVICE UNTIL REPLACED AS DIRECTED BY THE ENGINEER. ALL TEMPORARY CABLING AND SPLICING FOR CIRCUITS SHALL BE CONSIDERED INCIDENTAL TO CONTRACT.
2. AT ANY LOCATION WHERE THE NEW DUCT OR CABLE ROUTE CROSSES AN EXISTING UTILITY, THE CONTRACTOR SHALL HAND DIG AND LOCATE THE EXISTING UTILITY PRIOR TO TRENCHING. COST OF LOCATING ALL EXISTING UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT.
3. CONNECT NEW CABLE TO EXISTING CABLE AT AIRFIELD SIGN, TAXIWAY OR RUNWAY LIGHT, MANHOLE, HANDHOLE OR SPLICE CAN. THE COST OF SPLICING SHALL BE INCIDENTAL TO AIRFIELD LIGHTING CABLE INSTALLATION.
4. THE CONTRACTOR SHALL VERIFY THAT THE EXISTING RUNWAY/TAXIWAY LIGHTING CIRCUITS ARE OPERATIONAL AT THE END OF EACH WORKING DAY.
5. ALL AIRFIELD LIGHTING CIRCUIT CABLE SHALL BE 1/C #8, 5KV, L-824 TYPE C IN 3/4" UNIT DUCT.
6. NO EXTRA QUANTITY OR MEASUREMENT WILL BE ALLOTTED FOR ANY VERTICAL DISTANCES OR THE REQUIRED CABLE SLACK, AS STATED IN THE STANDARD SPECIFICATIONS AND CONTRACT DOCUMENTS.
7. EXISTING AIRFIELD CABLES BETWEEN LIGHTS AND SIGNS THAT ARE BEING REPLACED BY NEW CABLE SHALL BE REMOVED FROM EXISTING UNIT DUCT. THE UNIT DUCT SHALL BE ABANDONED IN PLACE OR REMOVED WHEN EXPOSED BY PROPOSED IMPROVEMENTS. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
8. THE CONTRACTOR SHALL LOCATE ALL EXISTING CABLES AND UTILITIES PRIOR TO NEW CABLE INSTALLATION.
9. THE ROUTING OF NEW AND EXISTING CABLES SHOWN ARE APPROXIMATE LOCATIONS. THE EXACT ROUTING OF THE NEW CABLES SHALL BE COORDINATED WITH THE CONTRACTOR, THE AIRPORT AND THE ENGINEER.
10. EXISTING TAXIWAY EDGE LIGHTS TO BE REMOVED AND REPLACED ARE NOT SHOWN FOR CLARITY. ALL NEW TAXIWAY EDGE LIGHTS SHALL BE PLACED IN THE SAME LOCATIONS AS THE REMOVED LIGHTS, EXCEPT WHERE NEW EDGE LIGHT LOCATIONS HAVE BEEN ADDED FOR COMPLIANCE WITH FAA SPACING REQUIREMENTS. THESE NEW LOCATIONS ARE INDICATED ON THE PLANS.
11. WHERE INDICATED, NEW RUNWAY HOLD SIGNS AND NEW RUNWAY EXIT SIGNS SHALL BE CONNECTED TO THE EXISTING RUNWAY CIRCUIT WITH NEW CABLE.
12. CONTRACTOR SHALL LOCATE EXISTING CABLES AND INSTALL SPLICE CAN TO BRING CABLES IN. CABLES SHALL BE SPLICED ACCORDING TO THE CABLE SPLICE DETAIL.



WH012

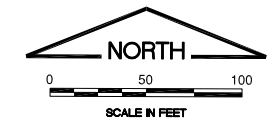
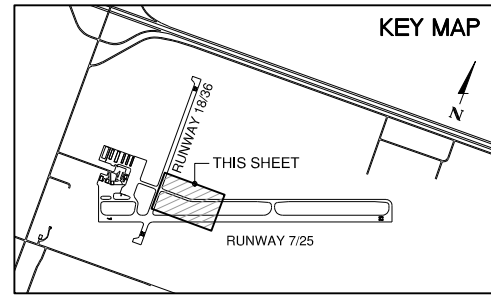


NEW AIRFIELD SIGNAGE SCHEDULE			
NEW SIGN NUMBER	NEW SIGN FACE	NEW SIGN LEGEND	NEW SIGN TYPE
4	W E		3.2 2.1

SIGN 4 SHALL BE STYLE 3
(FUTURE CONNECTION TO RUNWAY 18/36 CIRCUIT)

NEW SIGN TYPE LEGEND

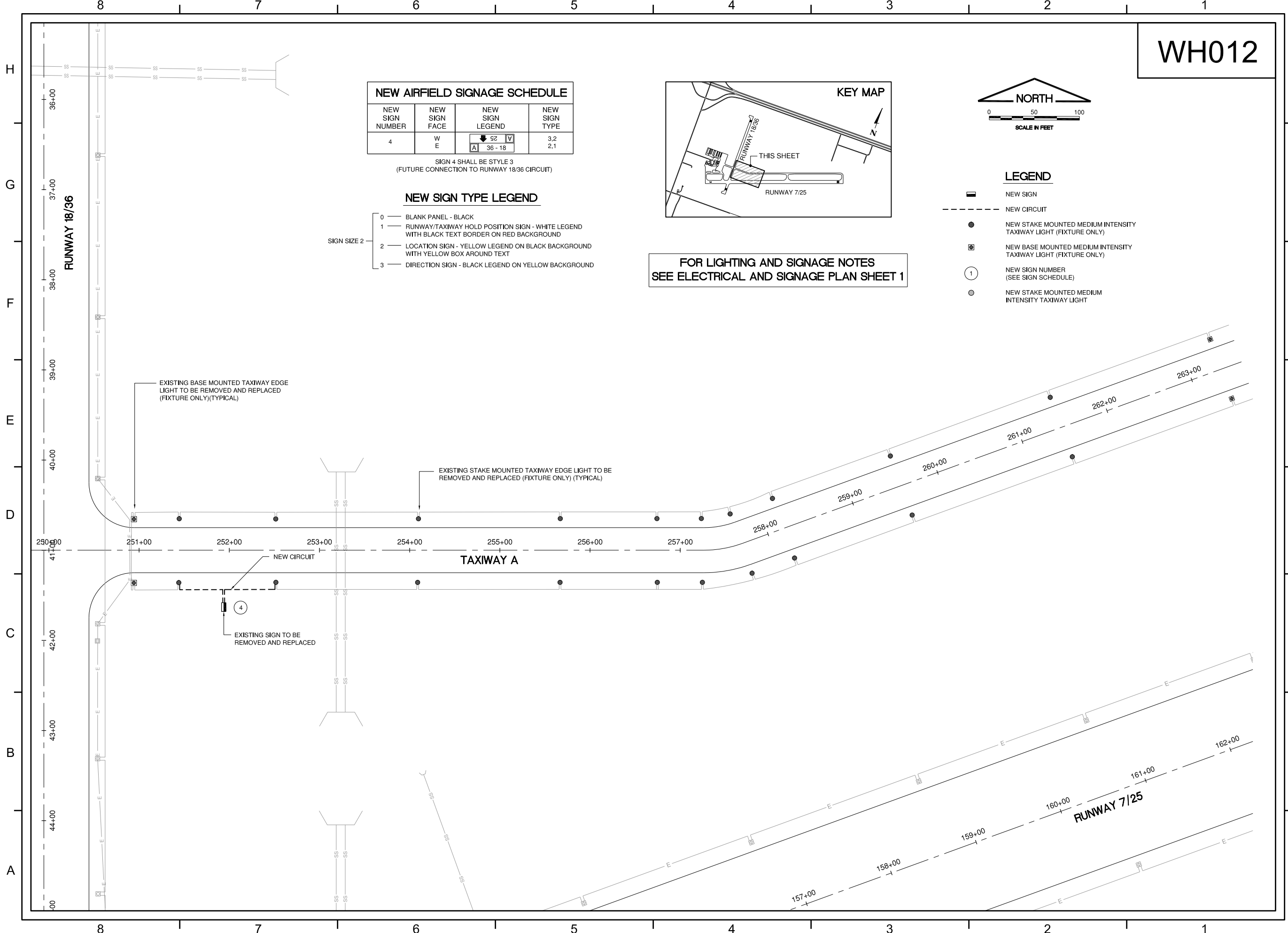
- SIGN SIZE 2
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 - 3 — DIRECTION SIGN - BLACK LEGEND ON YELLOW BACKGROUND



LEGEND

- NEW SIGN
- NEW CIRCUIT
- NEW STAKE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT (FIXTURE ONLY)
- NEW BASE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT (FIXTURE ONLY)
- NEW SIGN NUMBER (SEE SIGN SCHEDULE)
- NEW STAKE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT

FOR LIGHTING AND SIGNAGE NOTES
SEE ELECTRICAL AND SIGNAGE PLAN SHEET 1



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LIGHTING (MITL)

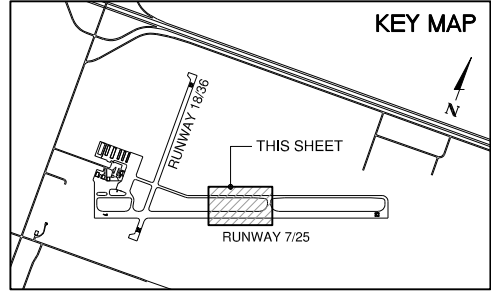
SHEET TITLE:
**ELECTRICAL AND
SIGNAGE PLAN - 2**

DESIGNED: ABM DRAWN: JRO CHECKED: DJK

PROJECT NO.: 17292-02-00
DATE: 1-12-2018

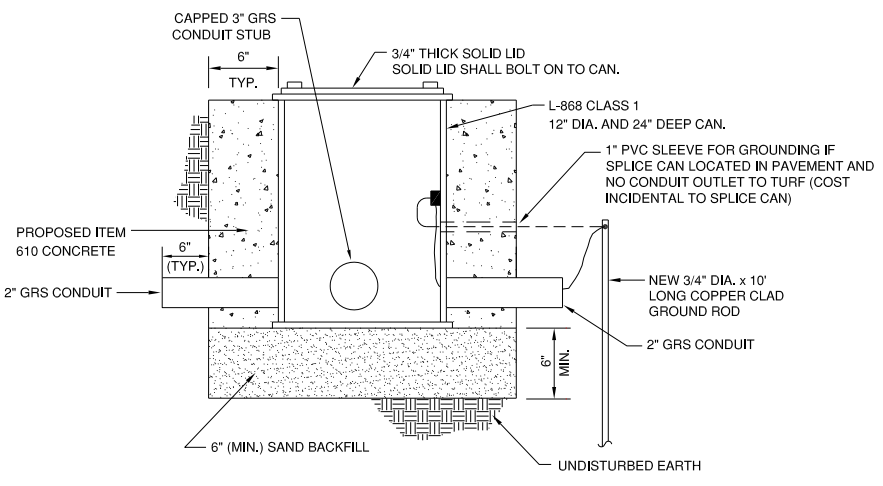
SHEET NO. **8** REVISION

SHEET 8 OF 14 SHEETS



NEW AIRFIELD SIGNAGE SCHEDULE

NEW SIGN NUMBER	NEW SIGN FACE	NEW SIGN LEGEND	NEW SIGN TYPE
5	W E		3 0
6	N S		1,2 0

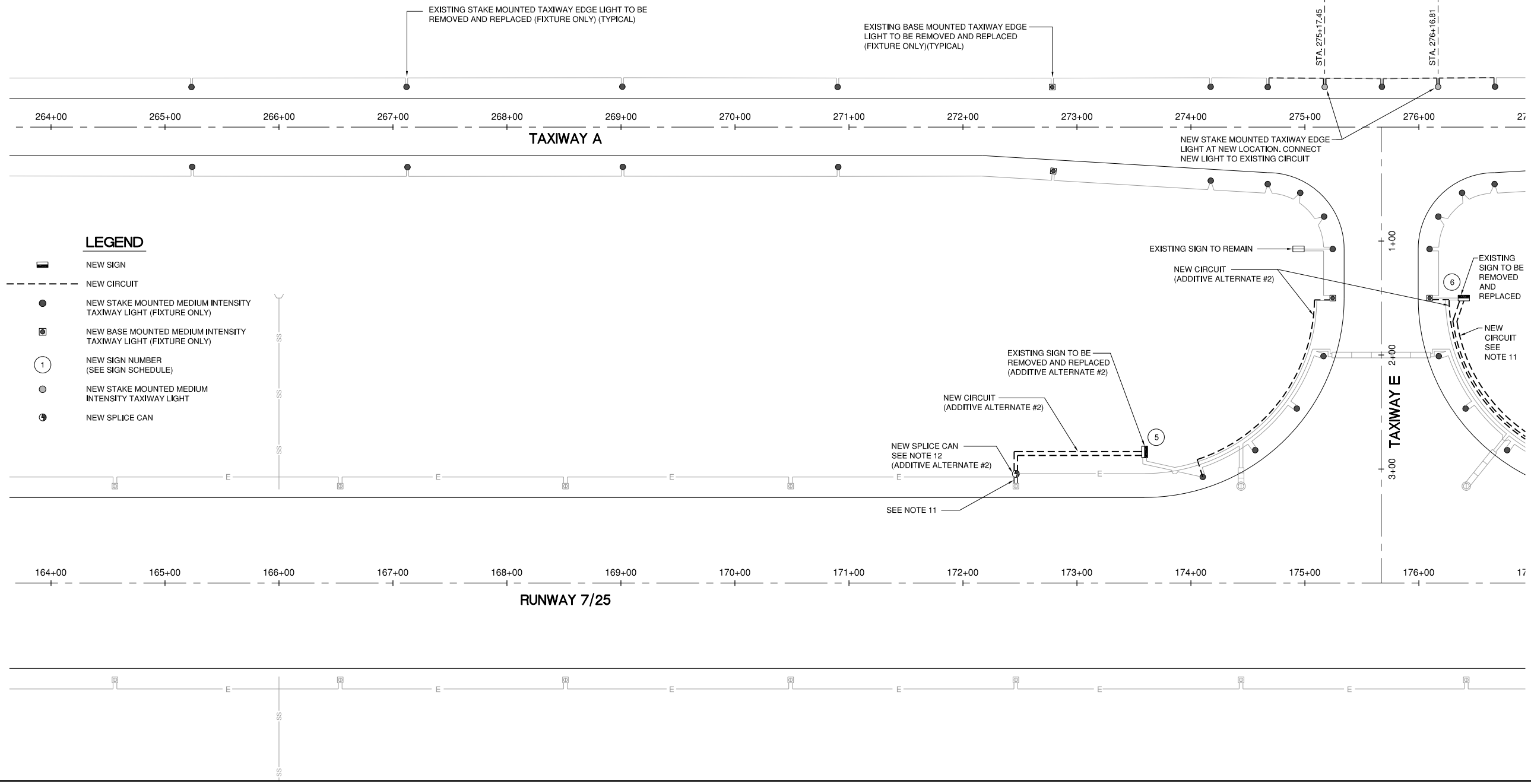


NEW SPLICE CAN DETAIL
NOT TO SCALE

NEW SIGN TYPE LEGEND

- SIGN SIZE 2
- 0 — BLANK PANEL - BLACK
 - 1 — RUNWAY/TAXIWAY HOLD POSITION SIGN - WHITE LEGEND WITH BLACK TEXT BORDER ON RED BACKGROUND
 - 2 — LOCATION SIGN - YELLOW LEGEND ON BLACK BACKGROUND WITH YELLOW BOX AROUND TEXT
 - 3 — DIRECTION SIGN - BLACK LEGEND ON YELLOW BACKGROUND

FOR LIGHTING AND SIGNAGE NOTES
SEE ELECTRICAL AND SIGNAGE PLAN SHEET 1



LEGEND

- NEW SIGN
- NEW CIRCUIT
- NEW STAKE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT (FIXTURE ONLY)
- NEW BASE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT (FIXTURE ONLY)
- NEW SIGN NUMBER (SEE SIGN SCHEDULE)
- NEW STAKE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT
- NEW SPLICE CAN

Whiteside County Airport
Sterling/Rock Falls, Illinois



Whiteside County
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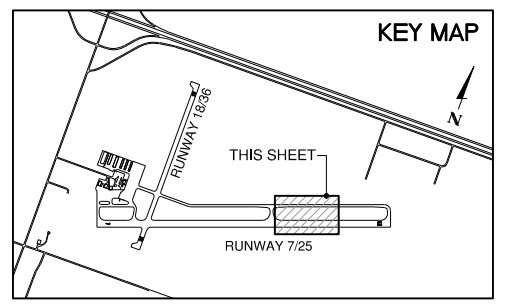
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LIGHTING (MITL)

SHEET TITLE:
**ELECTRICAL AND
SIGNAGE PLAN - 3**

DESIGNED: ABM DRAWN: JRO CHECKED: DJK

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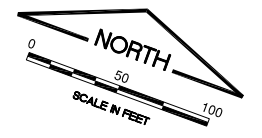
SHEET NO. **9** REVISION



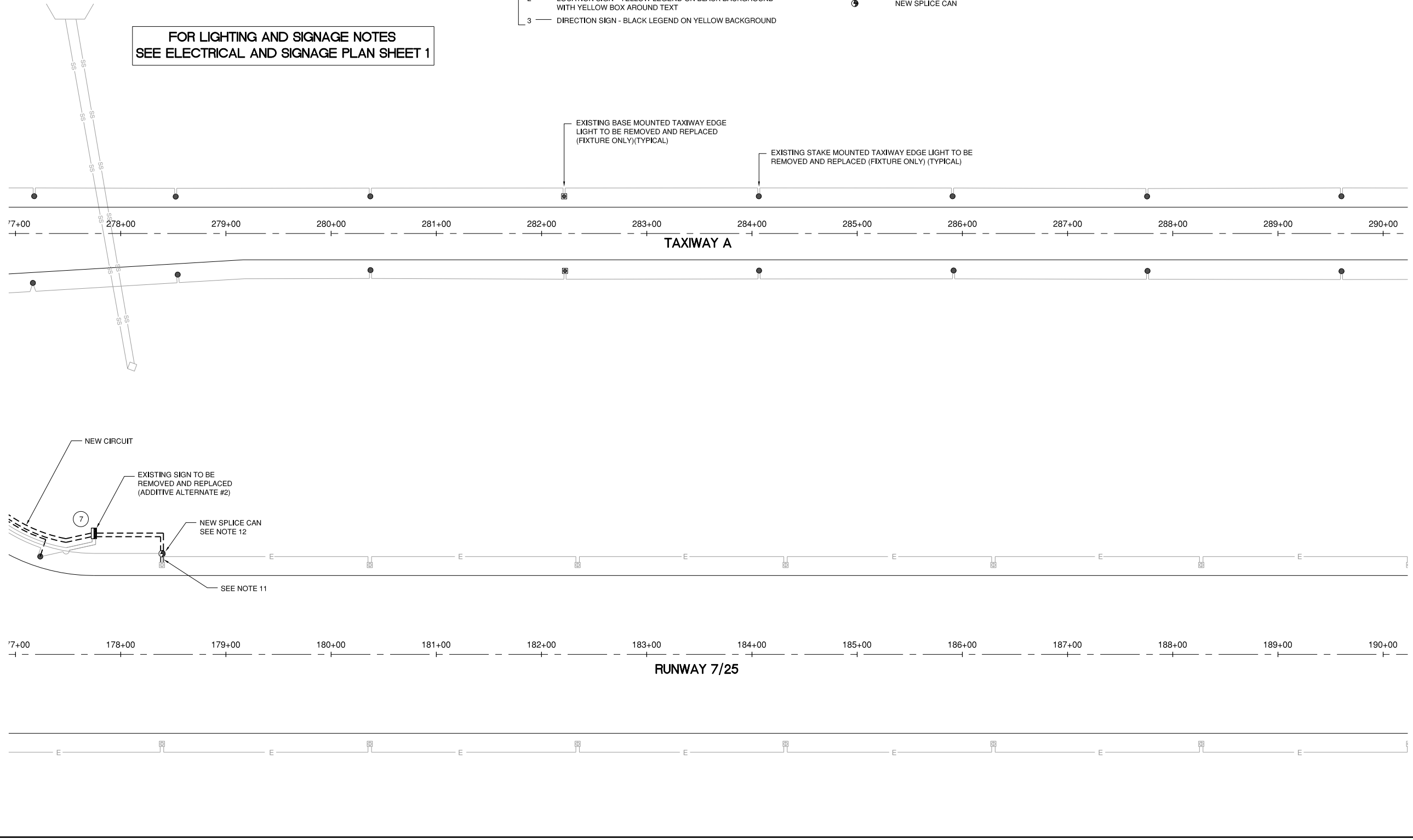
NEW AIRFIELD SIGNAGE SCHEDULE			
NEW SIGN NUMBER	NEW SIGN FACE	NEW SIGN LEGEND	NEW SIGN TYPE
7	W E		0
			3

- NEW SIGN TYPE LEGEND**
- 0 — BLANK PANEL - BLACK
 - 1 — RUNWAY/TAXIWAY HOLD POSITION SIGN - WHITE LEGEND WITH BLACK TEXT BORDER ON RED BACKGROUND
 - 2 — LOCATION SIGN - YELLOW LEGEND ON BLACK BACKGROUND WITH YELLOW BOX AROUND TEXT
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- LEGEND**
- NEW SIGN
 - NEW CIRCUIT
 - NEW STAKE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT (FIXTURE ONLY)
 - NEW BASE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT (FIXTURE ONLY)
 - NEW SIGN NUMBER (SEE SIGN SCHEDULE)
 - NEW STAKE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT
 - NEW SPLICE CAN



FOR LIGHTING AND SIGNAGE NOTES SEE ELECTRICAL AND SIGNAGE PLAN SHEET 1



Whiteside County Airport
Sterling/Rock Falls, Illinois

Whiteside County
Airport Board

SBG Proj: 3-17-SBGP-139
IL Proj: SQI-4585

APPROVED AS WORKING PLAN
BY:

REV	DATE	DESCRIPTION

PROJECT NAME:
REHABILITATE AIRFIELD
SIGNAGE SYSTEM AND
TAXIWAY ALPHA'S MEDIUM
INTENSITY TAXIWAY
LIGHTING (MITL)

SHEET TITLE:
ELECTRICAL AND
SIGNAGE PLAN - 4

DESIGNED: ABM DRAWN: JRO CHECKED: DJK

PROJECT NO.: 17292-02-00
DATE: 1-12-2018

SHEET NO. **10** REVISION

WH012



Whiteside County Airport
Sterling/Rock Falls, Illinois

Whiteside County
Airport Board

SBG Proj: 3-17-SBGP-139
IL Proj: SQI-4585

APPROVED AS WORKING PLAN
BY:

REV	DATE	DESCRIPTION

PROJECT NAME:
REHABILITATE AIRFIELD
SIGNAGE SYSTEM AND
TAXIWAY ALPHA'S MEDIUM
INTENSITY TAXIWAY
LIGHTING (MITL)

SHEET TITLE:
ELECTRICAL AND
SIGNAGE PLAN - 5

DESIGNED: ABM DRAWN: JRO CHECKED: DJK

PROJECT NO.: 17292-02-00
DATE: 1-12-2018

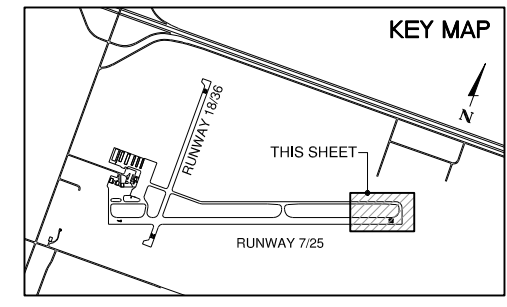
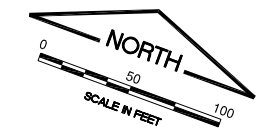
SHEET NO. **11** REVISION

SHEET 11 OF 14 SHEETS

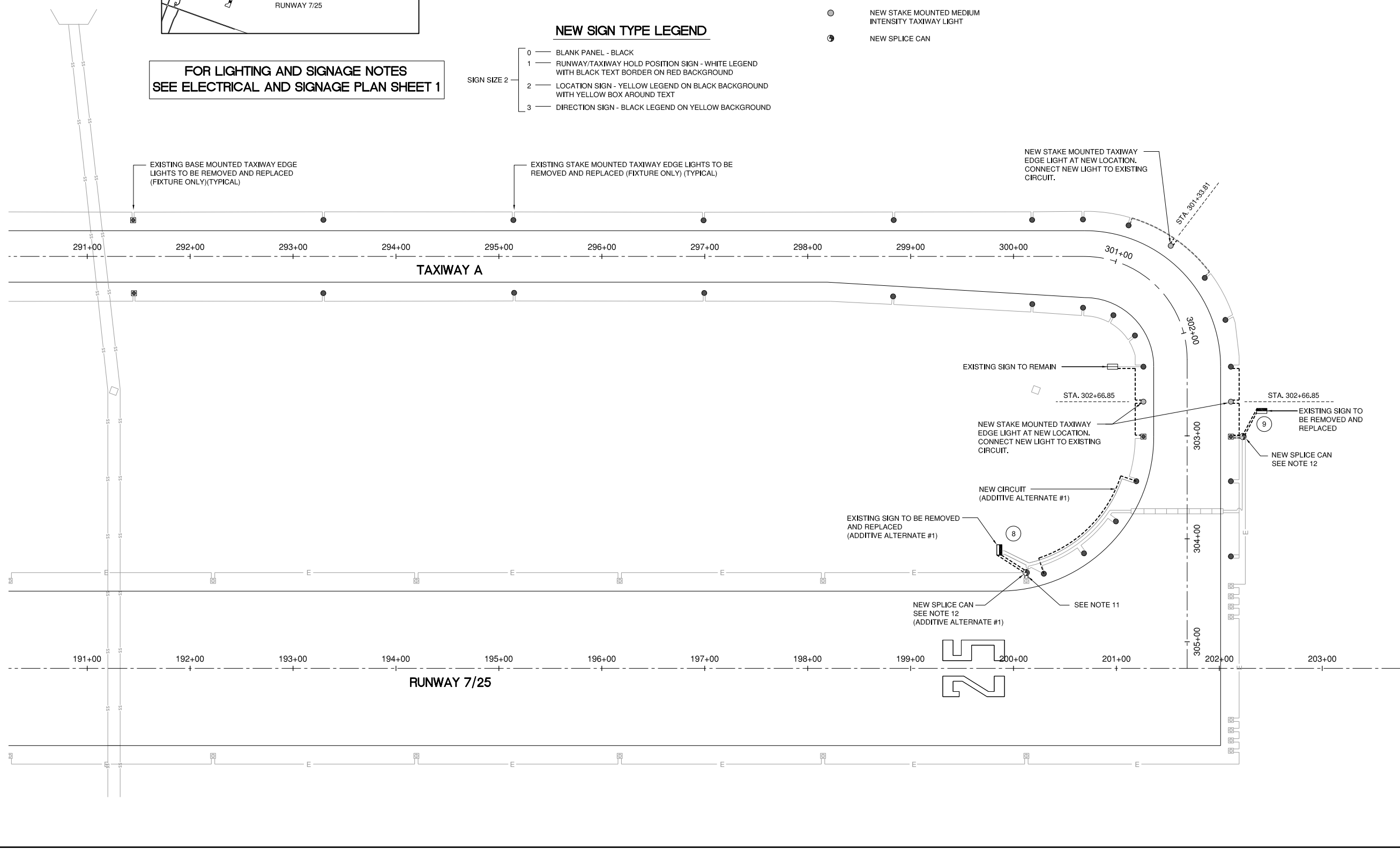
NEW SIGN NUMBER	NEW SIGN FACE	NEW SIGN LEGEND	NEW SIGN TYPE
8	W E	V BLANK	3 0
9	N S	S2 BLANK	1,2 0

0	BLANK PANEL - BLACK
1	RUNWAY/TAXIWAY HOLD POSITION SIGN - WHITE LEGEND WITH BLACK TEXT BORDER ON RED BACKGROUND
2	LOCATION SIGN - YELLOW LEGEND ON BLACK BACKGROUND WITH YELLOW BOX AROUND TEXT
3	DIRECTION SIGN - BLACK LEGEND ON YELLOW BACKGROUND

- LEGEND**
- NEW SIGN
 - - - - NEW CIRCUIT
 - NEW STAKE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT (FIXTURE ONLY)
 - ◻ NEW BASE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT (FIXTURE ONLY)
 - ① NEW SIGN NUMBER (SEE SIGN SCHEDULE)
 - NEW STAKE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT
 - ⊙ NEW SPLICE CAN



FOR LIGHTING AND SIGNAGE NOTES
SEE ELECTRICAL AND SIGNAGE PLAN SHEET 1



H
G
F
E
D
C
B
A

H
G
F
E
D
C
B
A

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1



Whiteside County Airport
Sterling/Rock Falls, Illinois

Whiteside County
Airport Board

SBG Proj: 3-17-SBGP-139
IL Proj: SQI-4585

APPROVED AS WORKING PLAN
BY:

REV	DATE	DESCRIPTION

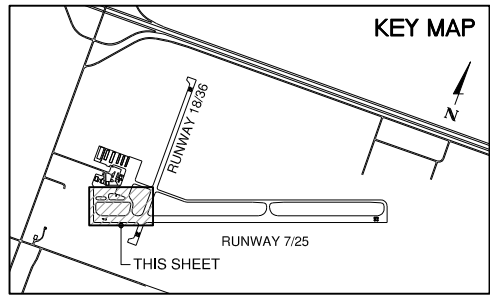
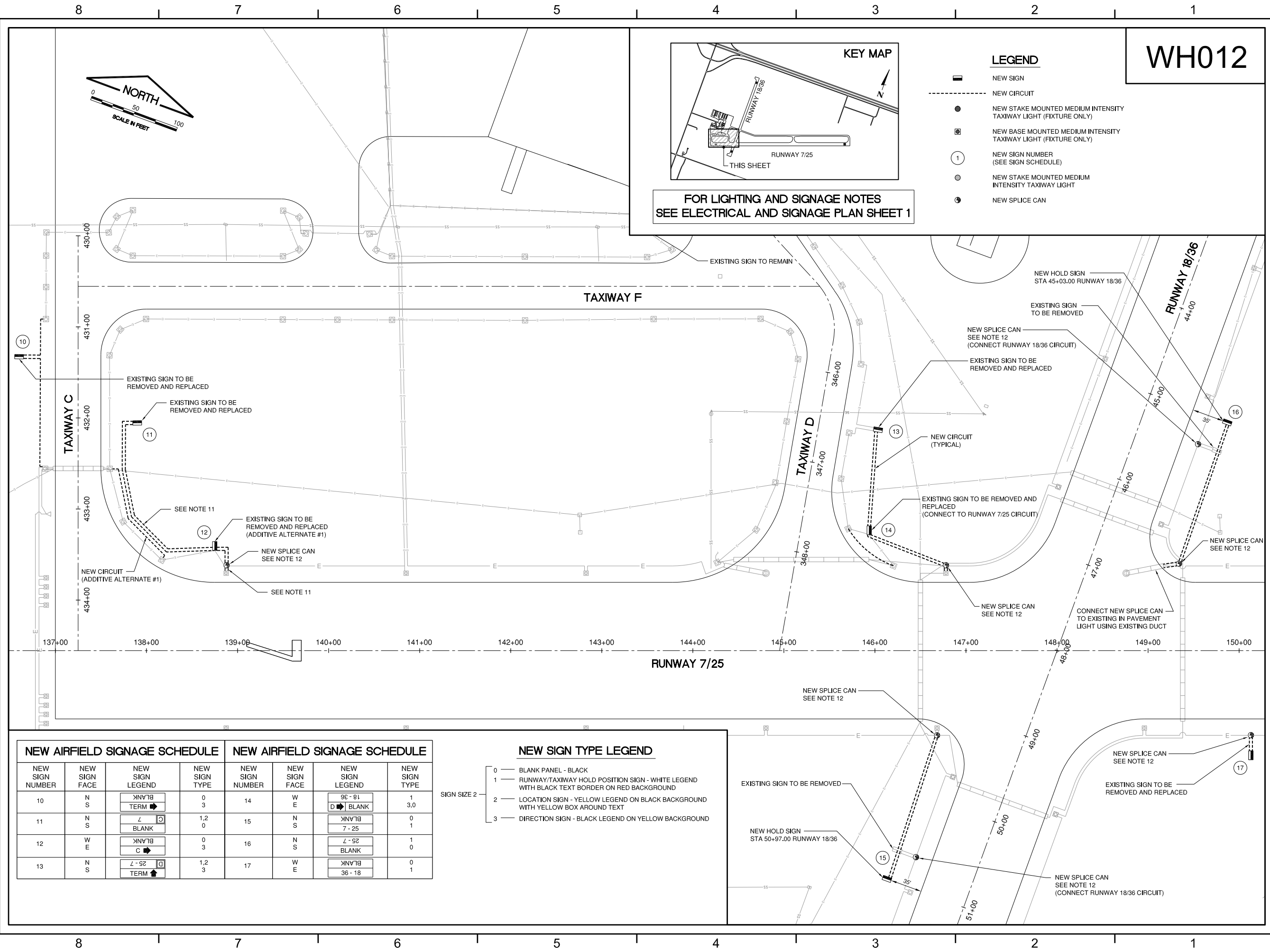
PROJECT NAME:
**REHABILITATE AIRFIELD
SIGNAGE SYSTEM AND
TAXIWAY ALPHA'S MEDIUM
INTENSITY TAXIWAY
LIGHTING (MITL)**

SHEET TITLE:
**ELECTRICAL AND
SIGNAGE PLAN - 6**

DESIGNED: ABM DRAWN: JRO CHECKED: DJK

PROJECT NO.: 17292-02-00
DATE: 1-12-2018

SHEET NO. **12** REVISION



- LEGEND**
- NEW SIGN
 - - - - NEW CIRCUIT
 - NEW STAKE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT (FIXTURE ONLY)
 - ⊠ NEW BASE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT (FIXTURE ONLY)
 - ① NEW SIGN NUMBER (SEE SIGN SCHEDULE)
 - NEW STAKE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT
 - ⊙ NEW SPLICE CAN

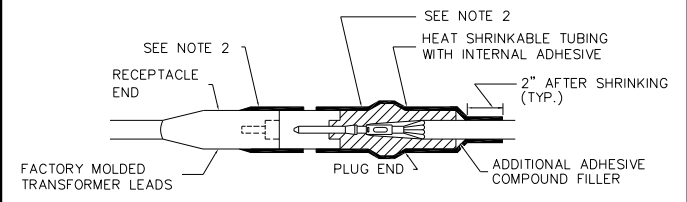
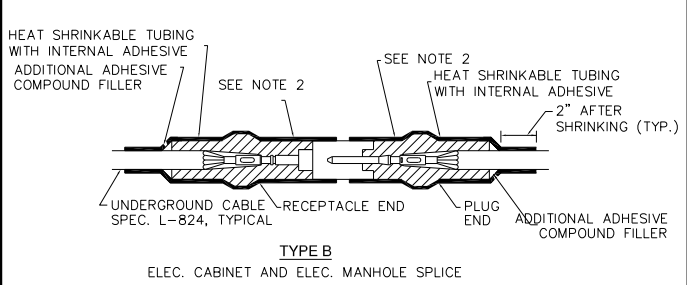
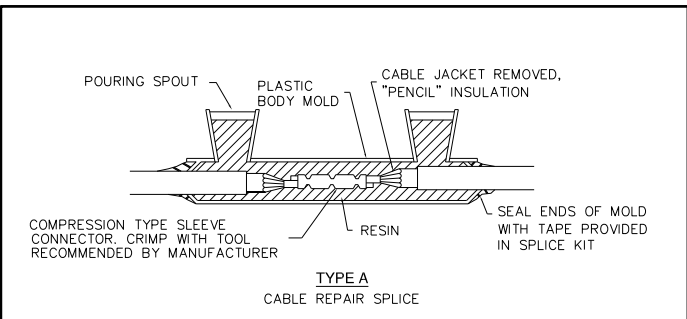
FOR LIGHTING AND SIGNAGE NOTES
SEE ELECTRICAL AND SIGNAGE PLAN SHEET 1

NEW AIRFIELD SIGNAGE SCHEDULE				NEW AIRFIELD SIGNAGE SCHEDULE			
NEW SIGN NUMBER	NEW SIGN FACE	NEW SIGN LEGEND	NEW SIGN TYPE	NEW SIGN NUMBER	NEW SIGN FACE	NEW SIGN LEGEND	NEW SIGN TYPE
10	N S	BLANK TERM	0 3	14	W E	96 - 81 D BLANK	1 3,0
11	N S	Z BLANK	1,2 0	15	N S	BLANK 7 - 25	0 1
12	W E	BLANK C	0 3	16	N S	Z BLANK	1 0
13	N S	Z - 25 TERM	1,2 3	17	W E	BLANK 36 - 18	0 1

- NEW SIGN TYPE LEGEND**
- 0 — BLANK PANEL - BLACK
 - 1 — RUNWAY/TAXIWAY HOLD POSITION SIGN - WHITE LEGEND WITH BLACK TEXT BORDER ON RED BACKGROUND
 - 2 — LOCATION SIGN - YELLOW LEGEND ON BLACK BACKGROUND WITH YELLOW BOX AROUND TEXT
 - 3 — DIRECTION SIGN - BLACK LEGEND ON YELLOW BACKGROUND

SIGN SIZE 2

WH012



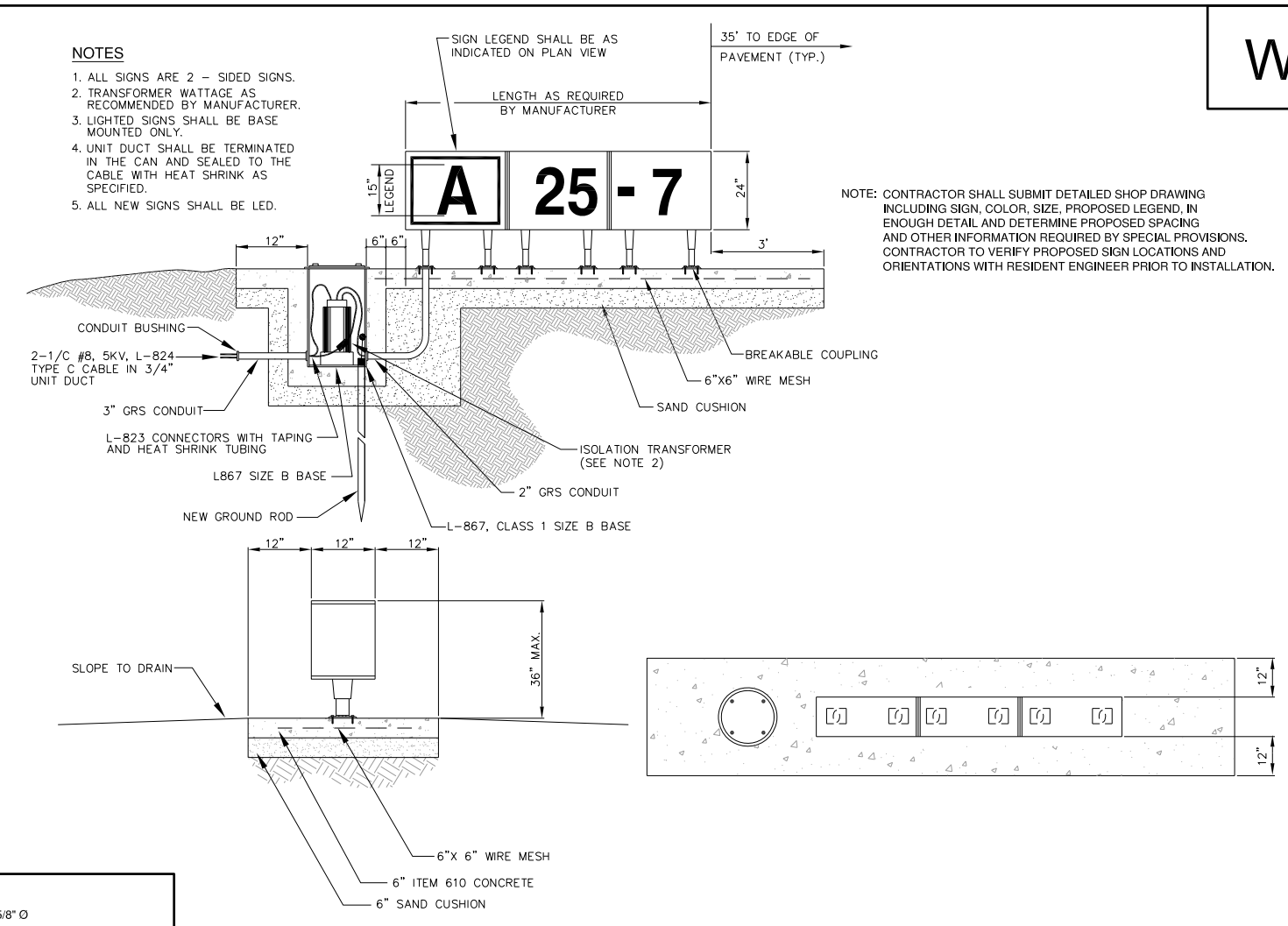
CABLE SPLICES
NOT TO SCALE

NOTES

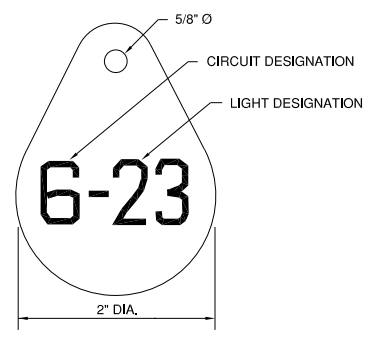
- INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE OF THE CABLE.
- WRAP WITH AT LEAST ONE LAYER OF RUBBER OR SYNTHETIC RUBBER TAPE AND ONE LAYER OF PLASTIC TAPE, ONE-HALF LAPPED, EXTENDING AT LEAST 1-1/2 INCHES ON EACH SIDE OF JOINT.
- TO FURTHER REDUCE THE POSSIBILITY OF WATER/MOISTURE ENTRANCE INTO THE CONNECTOR BETWEEN THE CABLE AND THE FIELD ATTACHED CONNECTOR, IT IS REQUIRED THAT A HEAT SHRINK TUBING WITH INTERNAL ADHESIVE BE APPLIED OVER THE ENTIRE CABLE.
- SPLICE CAN SHALL BE REQUIRED FOR ALL TYPE A SPLICE LOCATIONS. THE COST SHALL BE INCIDENTAL TO THE CABLE REPAIR.

NOTES

- ALL SIGNS ARE 2 - SIDED SIGNS.
- TRANSFORMER WATTAGE AS RECOMMENDED BY MANUFACTURER.
- LIGHTED SIGNS SHALL BE BASE MOUNTED ONLY.
- UNIT DUCT SHALL BE TERMINATED IN THE CAN AND SEALED TO THE CABLE WITH HEAT SHRINK AS SPECIFIED.
- ALL NEW SIGNS SHALL BE LED.



LED TAXIWAY GUIDANCE SIGN L-858, SIZE 2, STYLE 2/3, CLASS 2
NOT TO SCALE



NOTES

- INSTALL A NONCORROSIVE DISC OF 2" MINIMUM DIAMETER WITH THE NUMBER PERMANENTLY STAMPED, CUT OUT, OR ENGRAVED UNDER THE HEAD OF THE BASE PLATE BOLT OR ATTACHED TO LIGHT FLANGE WITH A SET SCREW.
- NUMERALS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. ALL EXISTING AND PROPOSED TAXIWAY AND RUNWAY LIGHTS SHALL BE TAGGED AS DIRECTED BY THE RESIDENT ENGINEER. ALL LIGHTS ON EXISTING CIRCUITS THAT HAVE LIGHTING IMPROVEMENTS (PROPOSED OR RELOCATED LIGHTS) SHALL BE RETAGGED.
- COST OF TAGGING LIGHTS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

TRENCH DETAIL FOR CABLE IN UNIT DUCT
NOT TO SCALE

- NOTES**
- TRENCHES WITH MORE THAN 2 CABLES SHALL BE INCREASED 3" IN WIDTH FOR EACH ADDITIONAL CABLE. IF SPECIFIED ON PLANS, TWO PARALLEL TRENCHES MAY BE CONSTRUCTED.
 - DEPTH OF TRENCHES FOR AIRFIELD LIGHTING SHALL BE AS SHOWN ABOVE UNLESS OTHERWISE SPECIFIED ON THE PLANS. DEPTH OF FAA CABLES SHALL BE 36" UNLESS OTHERWISE SHOWN.
 - SAND BACKFILL SHALL BE USED IF THE EXISTING SOIL DOES NOT MEET THE BACKFILL REQUIREMENTS.
 - ALL DISTURBED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. COST IS INCIDENTAL TO TRENCH RETURNING MATERIALS.
- THE CONTRACTOR SHALL HAVE THE OPTION TO TRENCH OR PLOW UNIT DUCT. NO ADDITIONAL PAYMENT SHALL BE MADE FOR TRENCHING.

PLOWED CABLE IN UNIT DUCT
NOT TO SCALE

- NOTES**
- ONLY CABLES OF THE SAME CIRCUIT WILL BE ALLOWED TO BE PLOWED IN TOGETHER.
 - THE CONTRACTOR SHALL HAVE THE OPTION TO TRENCH OR PLOW UNIT DUCT. NO ADDITIONAL PAYMENT SHALL BE MADE FOR TRENCHING.

APPROVED AS WORKING PLAN BY:

REV	DATE	DESCRIPTION

PROJECT NAME:
REHABILITATE AIRFIELD SIGNAGE SYSTEM AND TAXIWAY ALPHA'S MEDIUM INTENSITY TAXIWAY LIGHTING (MITL)

ELECTRICAL AND SIGNAGE DETAILS - 1

DESIGNED: ABM DRAWN: JRO CHECKED: DJK

PROJECT NO.: 17292-02-00
DATE: 1-12-2018

SHEET NO. **13** REVISION

APPROVED AS WORKING PLAN
BY:

REV	DATE	DESCRIPTION

PROJECT NAME:
REHABILITATE AIRFIELD
SIGNAGE SYSTEM AND
TAXIWAY ALPHA'S MEDIUM
INTENSITY TAXIWAY
LIGHTING (MITL)

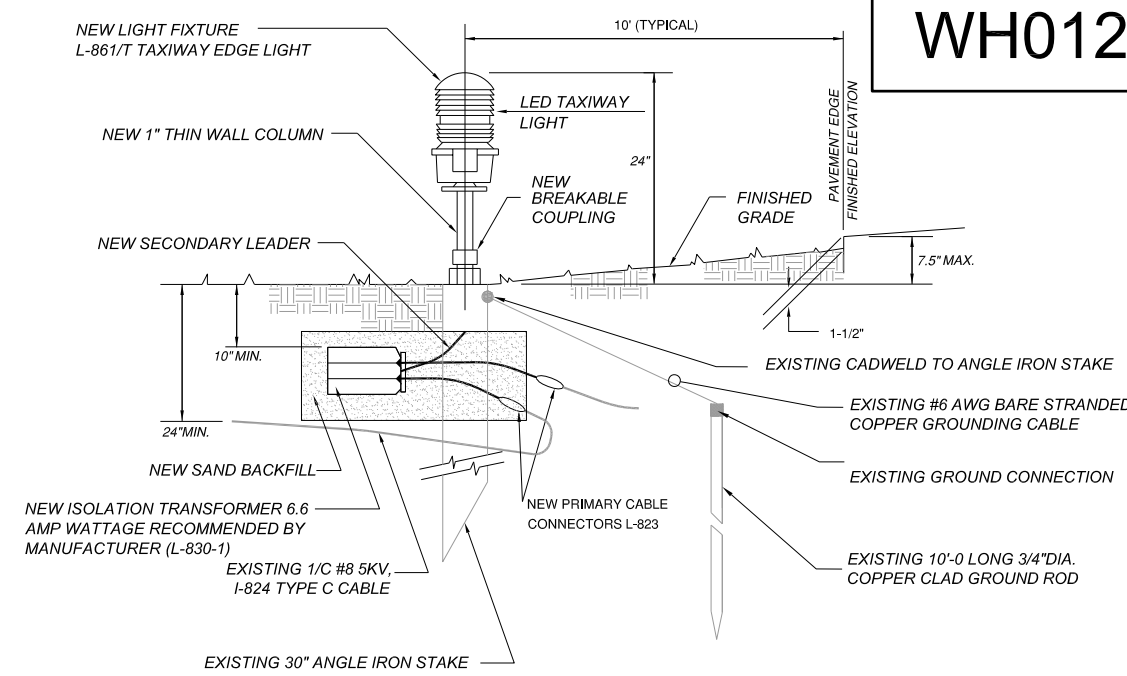
SHEET TITLE:
**ELECTRICAL AND
SIGNAGE DETAILS - 2**

DESIGNED: ABM DRAWN: JRO CHECKED: DJK

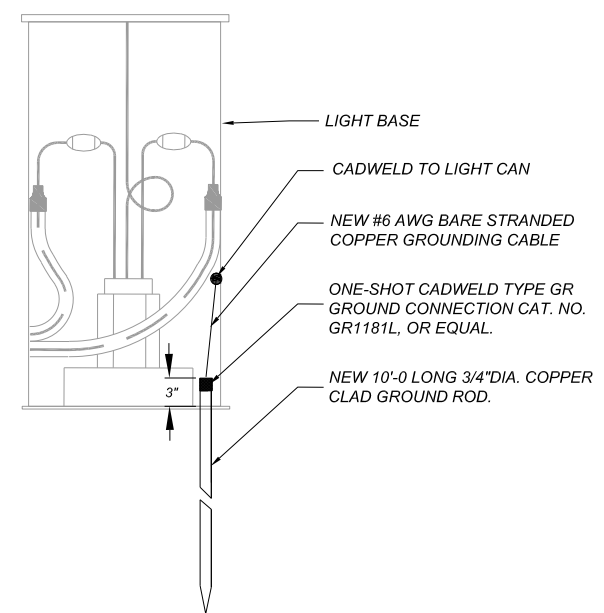
PROJECT NO.: 17292-02-00
DATE: 1-12-2018

SHEET NO. **14** REVISION

WH012

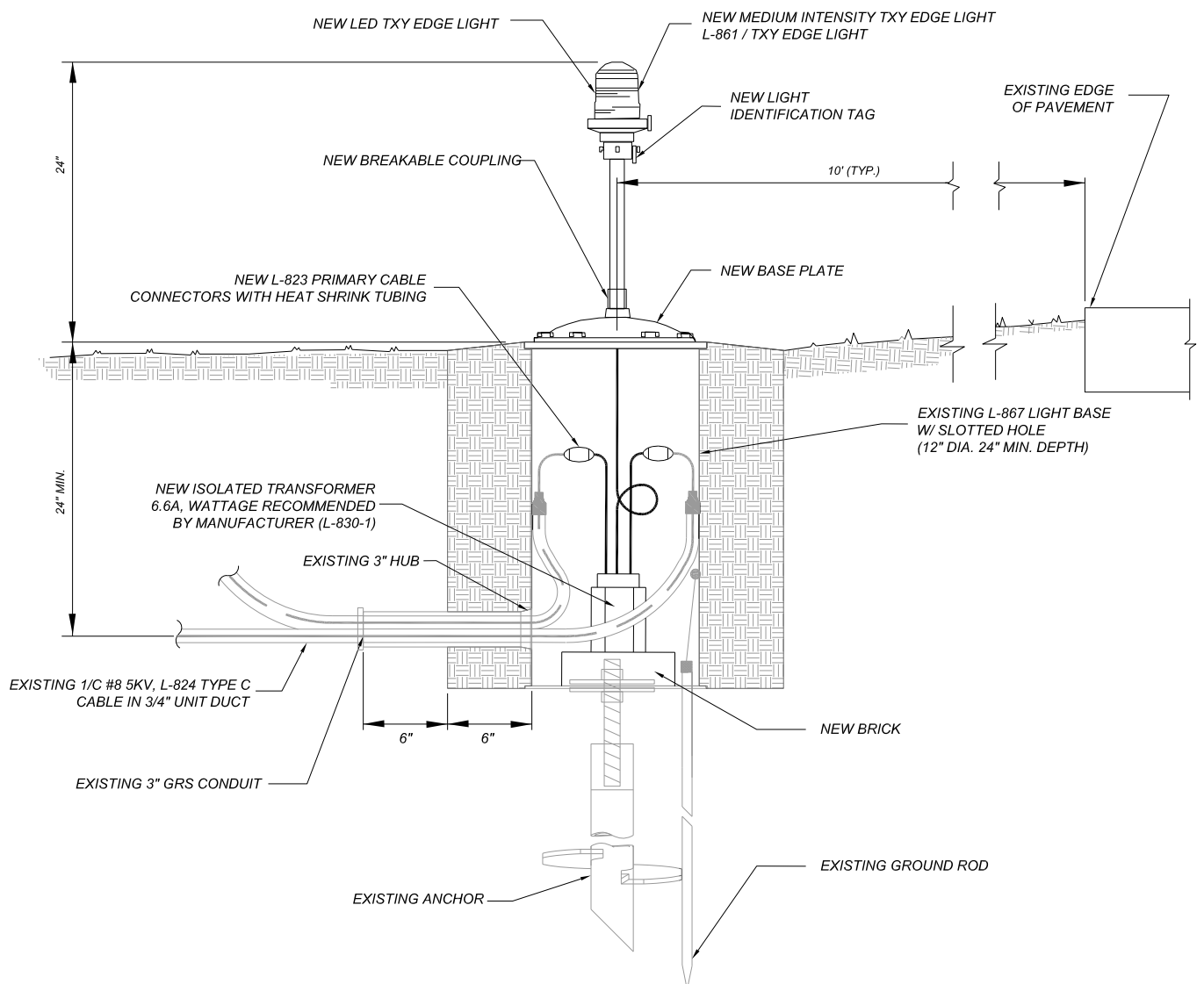


MITL-STAKE MOUNTED (FIXTURE ONLY)
NOT TO SCALE

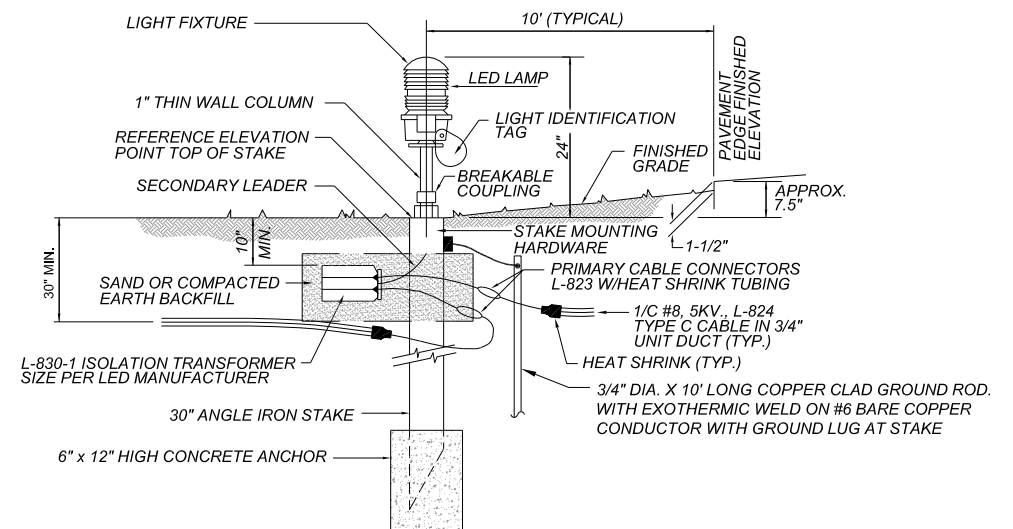


GROUND ROD DETAIL
NOT TO SCALE

- NOTES
- GROUND ROD SHALL BE INCIDENTAL TO THE ASSOCIATED PAY ITEM.
 - ALL WORK TO RETROFIT EXSTING AND NEW LIGHT BASES SHALL BE INCIDENTAL TO PAY ITEM.



MITL-BASE MOUNTED (FIXTURE ONLY)
NOT TO SCALE



STAKE MOUNTED MEDIUM INTENSITY TAXIWAY EDGE LIGHT (LED) DETAIL
NOT TO SCALE