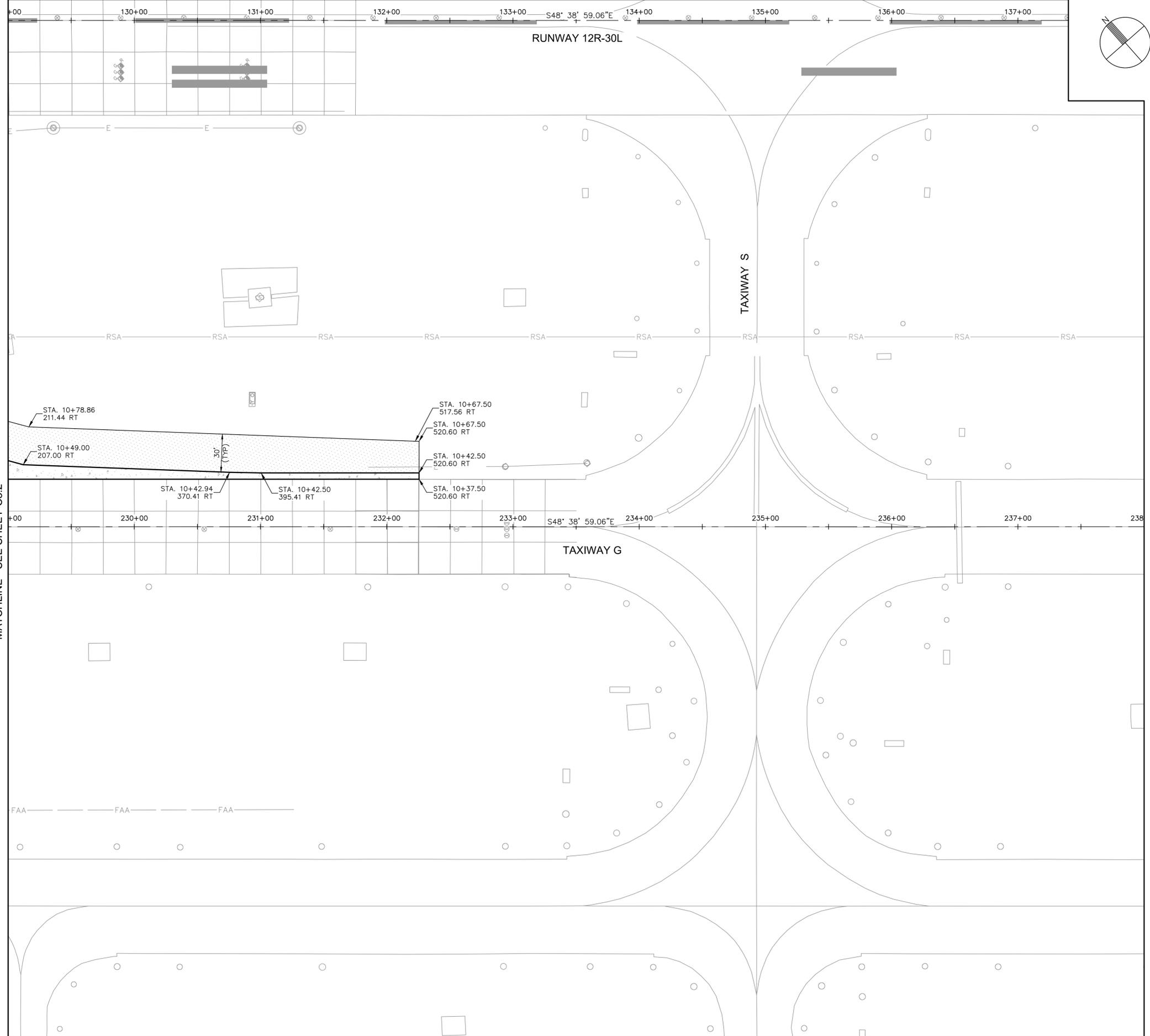


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MATCHLINE - SEE SHEET C5.2

LEGEND

- PORTLAND CEMENT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE TRANSITION
- ASPHALT CONCRETE SHOULDER PAVEMENT
- ASPHALT CONCRETE TRANSITION

GENERAL NOTES

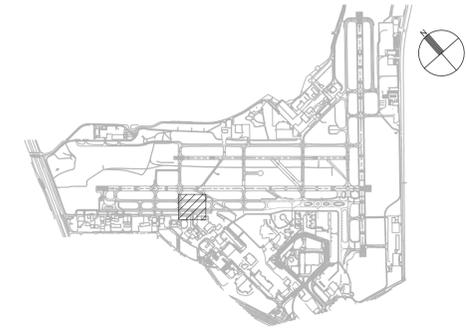
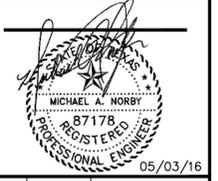
1. REFER TO SHEET C1.11 FOR HORIZONTAL AND VERTICAL CONTROL.
2. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.
3. REFER TO SHEETS C4.1 - C4.5 FOR TYPICAL SECTIONS.

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DEPARTMENT



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TEXAS REGISTERED FIRM,
NO. 928

**RUNWAY 12R-30L
ELECTRICAL IMPROVEMENTS
AND TERMINAL AREA
TAXIWAY IMPROVEMENTS
(PACKAGE 4)**



40 0 40 80
SCALE IN FEET

MARK	DATE	DESCRIPTION

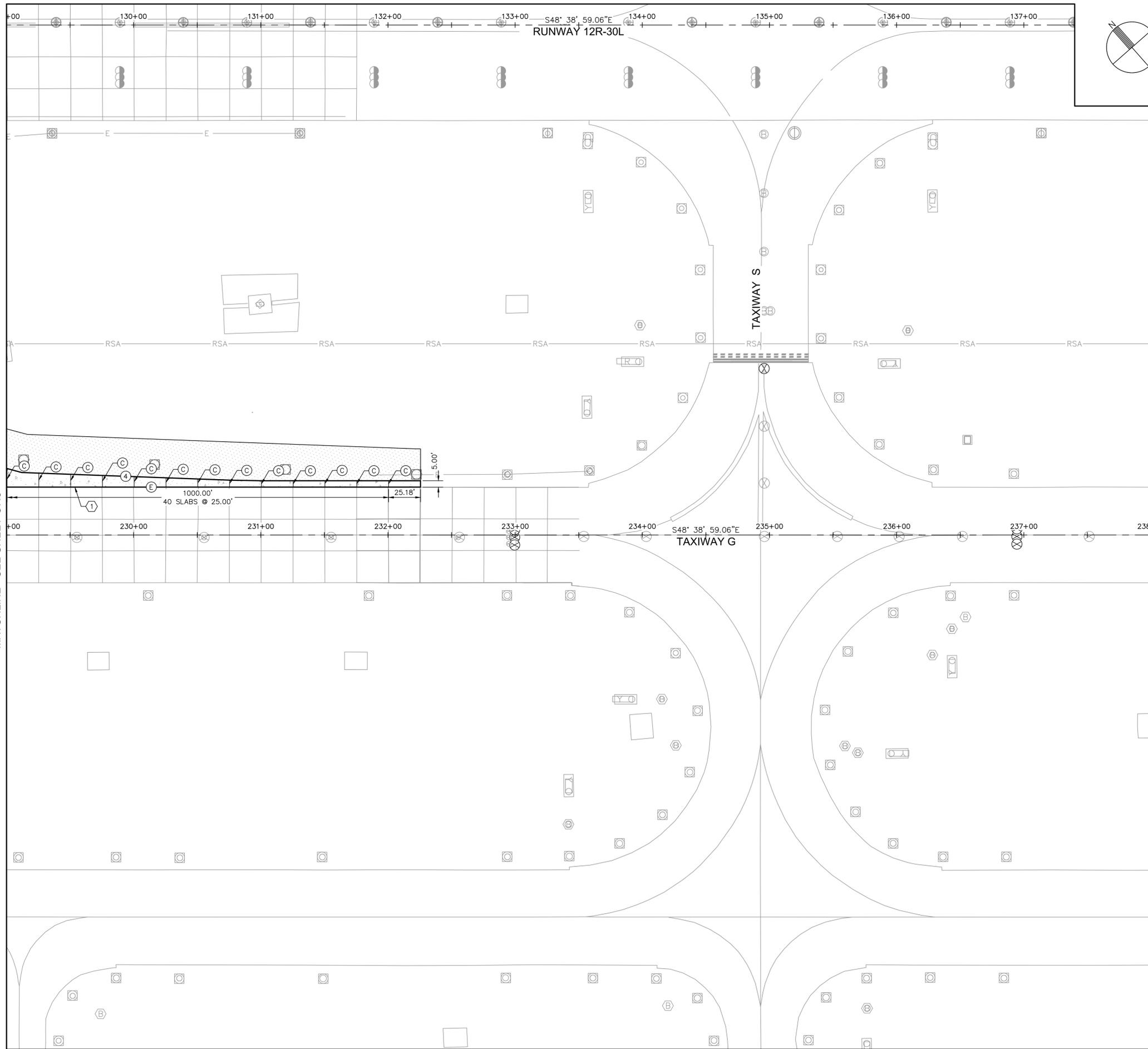
ISSUE:

PROJECT NO:	33-0019X
FILE NAME:	_33-00193-R1CL-101-D01
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SHEET TITLE:

GEOMETRIC
LAYOUT PLAN -
TAXIWAY J -
ALTERNATE 1

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LEGEND

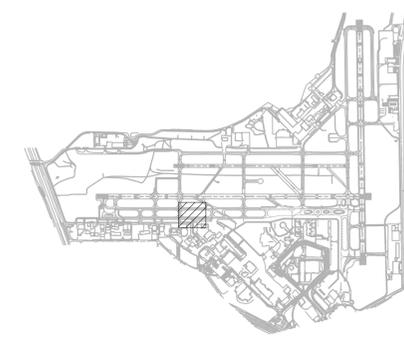
- PORTLAND CEMENT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE TRANSITION
- ASPHALT CONCRETE SHOULDER PAVEMENT
- ASPHALT CONCRETE TRANSITION
- JOINT TYPE A, REFER TO SHEET C7.2 FOR PAVEMENT JOINT DETAILS
- JOINT TYPE A1, REFER TO SHEET C7.2 FOR PAVEMENT JOINT DETAILS
- JOINT TYPE C, REFER TO SHEET C7.2 FOR PAVEMENT JOINT DETAILS
- JOINT TYPE E, REFER TO SHEET C7.2 FOR PAVEMENT JOINT DETAILS
- EDGE SEAL TYPE 4, REFER TO SHEET C7.2 FOR PAVEMENT JOINT DETAILS

GENERAL NOTES

1. REFER TO SHEET C1.11 FOR HORIZONTAL AND VERTICAL CONTROL.
2. TYPE C AND TYPE E JOINTS MAY BE INTERCHANGED WITH APPROVAL FROM THE ENGINEER.
3. PORTLAND CEMENT CONCRETE PAVEMENT (P-501) JOINTS SHALL NOT VARY MORE THAN 1/2-INCH FROM THEIR DESIGNATED HORIZONTAL POSITION AND SHALL BE TRUE TO LINE WITH NOT MORE THAN 1/4-INCH VARIATION IN 10- FEET. ANY JOINT(S) THAT ARE NOT PARALLEL OR PERPENDICULAR, OTHER THAN IRREGULAR SLABS, SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR WITH NO ADDITIONAL COST TO THE AIRPORT.
4. ALL SAWCUT DEBRIS FROM THE WIDENING OF THE JOINTS SHALL BE REMOVED FROM THE CONCRETE SURFACE IMMEDIATELY AFTER SAWCUTTING BY VACUUMING THE SLURRY.
5. DOWEL BARS SHALL NOT VARY IN ALIGNMENT BY MORE THAN TWO-PERCENT (2%) OR 0.40" IN EACH PLANE. MISALIGNED DOWEL BARS BY MORE THAN THE SPECIFIED TOLERANCE SHALL REQUIRE THE PCOP TO BE REMOVED ON EACH SIDE OF THE DOWEL BARS AT NO ADDITIONAL COST TO THE AIRPORT.
6. CONTRACTOR TO COORDINATE WITH THE ENGINEER FOR JOINTING AROUND ELEC./COMM. MANHOLES THAT ARE TO REMAIN IN PLACE.
7. ALL PCOP PANELS ARE REINFORCED PER DETAIL 6, SHEET C7.2

CONSTRUCTION NOTES

- SAWCUT AND MATCH EXISTING JOINT SPACING AND ELEVATION
- REFER TO ELECTRICAL PLANS (SERIES E)



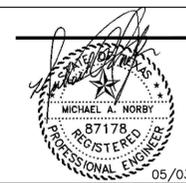
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**RUNWAY 12R-30L
ELECTRICAL IMPROVEMENTS
AND TERMINAL AREA
TAXIWAY IMPROVEMENTS
(PACKAGE 4)**



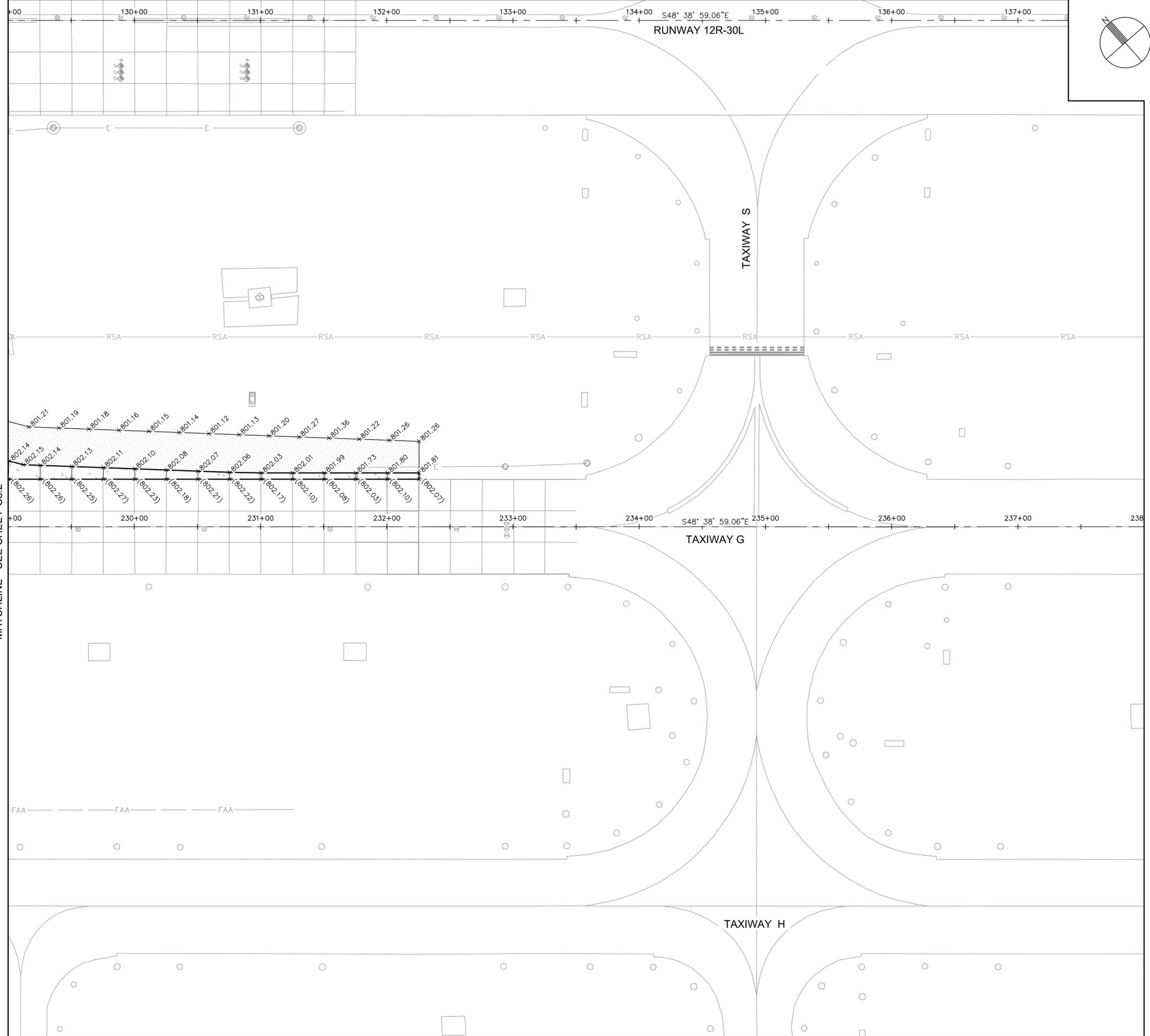
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FILE NAME:	_33-00193-R1C-101-D01
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JOINT LAYOUT
PLAN - TAXIWAY J
- ALTERNATE 1

C7.4
SHEET NO. 97 OF 157

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MATCHLINE - SEE SHEET C8.2

- LEGEND**
- PORTLAND CEMENT CONCRETE PAVEMENT
 - PORTLAND CEMENT CONCRETE TRANSITION
 - ASPHALT CONCRETE SHOULDER PAVEMENT
 - ASPHALT CONCRETE TRANSITION
 - PROPOSED SPOT ELEVATION
 - EXISTING SPOT ELEVATION

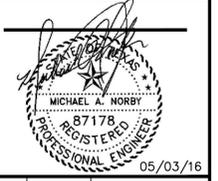
- GENERAL NOTES**
1. REFER TO SHEET C1.11 FOR HORIZONTAL AND VERTICAL CONTROL.
 2. PAVEMENT ELEVATIONS SHOWN ARE BASED ON JOINT LAYOUT, REFER TO PAVEMENT JOINT LAYOUT PLANS (SERIES C7).
 3. REFER TO GRADING AND DRAINAGE PLAN (SERIES C9) FOR ADDITIONAL GRADING INFORMATION.
 4. CONTRACTOR SHALL MATCH EXISTING PAVEMENT ELEVATIONS AS SHOWN ON PLAN. IF EXISTING ELEVATIONS DIFFER FROM THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
 5. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.

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**RUNWAY 12R-30L
ELECTRICAL IMPROVEMENTS
AND TERMINAL AREA
TAXIWAY IMPROVEMENTS
(PACKAGE 4)**



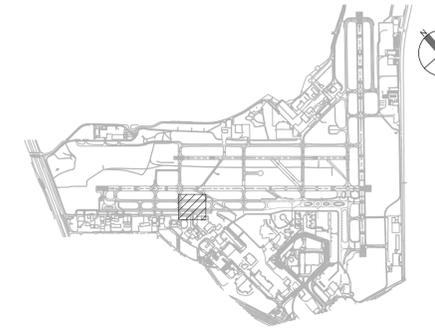
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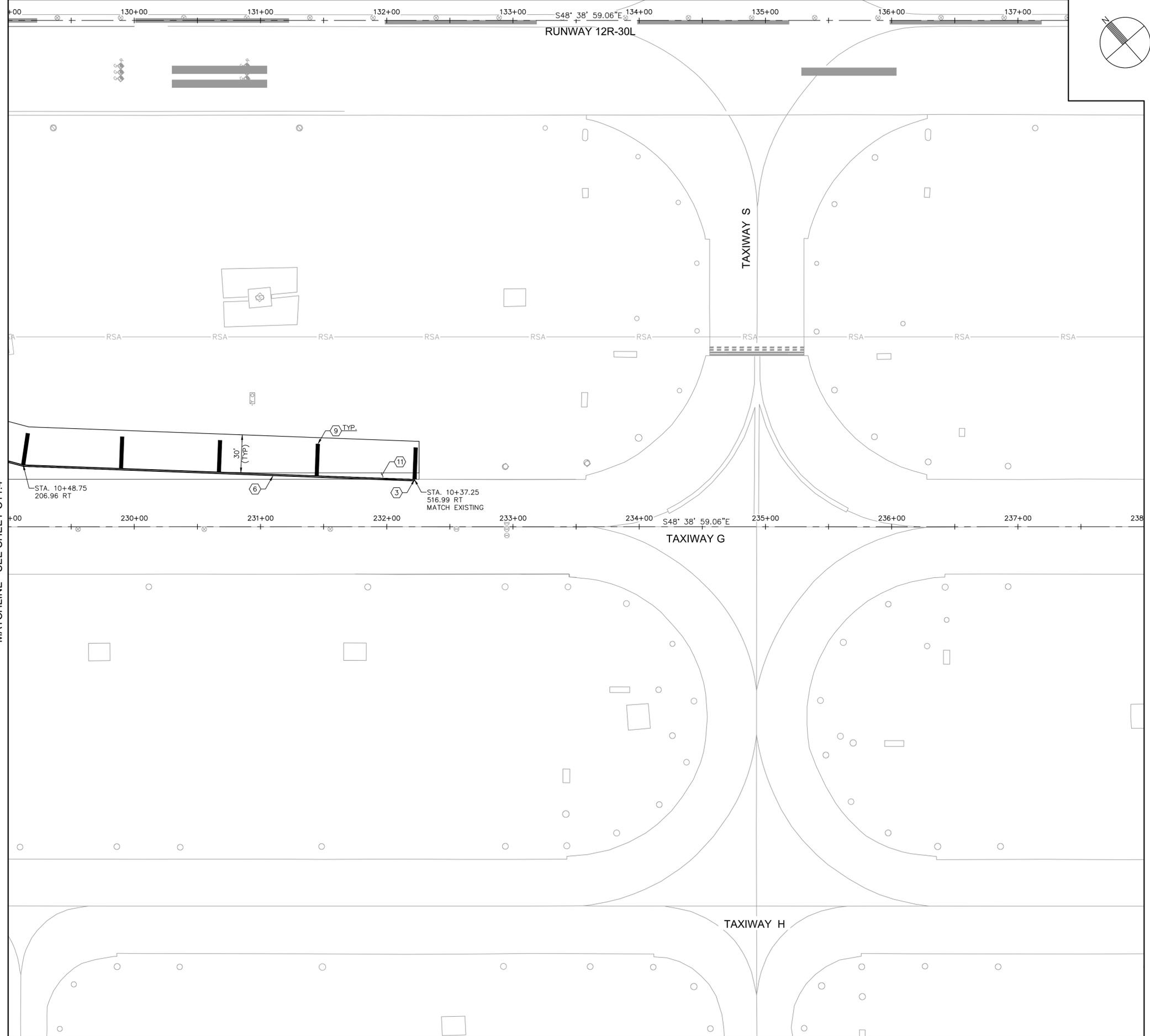
SHEET TITLE:

PAVEMENT
ELEVATION PLAN -
TAXIWAY J -
ALTERNATE 1



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SCALE IN FEET

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LEGEND

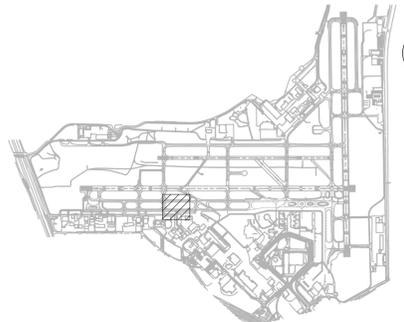
- ⊕ RUNWAY CENTERLINE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- ⊖ RUNWAY EDGE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- RUNWAY TOUCHDOWN ZONE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- ⊙ TAXIWAY CENTERLINE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS
- TAXIWAY EDGE LIGHT, REFER TO ELECTRICAL PLANS (SERIES E) FOR DETAILS

GENERAL NOTES

1. PAVEMENT MARKING DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL AVIATION ADMINISTRATION'S ADVISORY CIRCULAR AC-150/5340-1. IF A CONFLICT OCCURS BETWEEN THESE PLANS AND THE ADVISORY CIRCULAR, THE ADVISORY CIRCULAR SHALL TAKE PRECEDENCE.
2. THE CONTRACTOR SHALL REMOVE CURING MATERIALS FROM THE PCCP PRIOR TO THE APPLICATION OF MARKINGS.
3. CONTRACTOR TO SURVEY EXISTING PAVEMENT MARKINGS SHOWN OUTSIDE OF PAVING LIMITS AND TO REINSTALL AT THOSE LOCATIONS UNLESS SPECIFIED OTHERWISE.
4. PROVIDE DOUBLE APPLICATION OF ALL NEW PAVEMENT MARKINGS (2 COATS INCLUDED IN PER S.F. PRICE)
5. ALL PERMANENT MARKINGS, LOCATED ON PCC, SHALL HAVE A SIX-INCH (6") WIDE BLACK BORDER. (NO DIRECT PAY)
6. EVERY EFFORT HAS BEEN MADE TO ACCURATELY DEPICT ALL MARKINGS THAT WILL BE RE-STRIPED ON THIS PROJECT, HOWEVER ADDITIONAL MARKINGS MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER.
7. SURFACES THAT ARE OBSTRUCTED DUE TO DEBRIS OR FLAKING PAINT SHALL BE THOROUGHLY CLEANED AND SWEEPED BEFORE APPLYING NEW MARKINGS.
8. ENGINEER TO REVIEW AND APPROVE PAVEMENT MARKING LAYOUT BEFORE MARKING IS PERFORMED.
9. REFER TO SHEET C1.11 FOR HORIZONTAL AND VERTICAL CONTROL.

CONSTRUCTION NOTES

- ① APPLY THIRTY-SIX INCH (36") WIDE SOLID WHITE RUNWAY EDGE LINE PAVEMENT MARKING PER DETAIL 1, SHEET C11.2
- ② APPLY SOLID YELLOW CLOSED TAXIWAY PAVEMENT MARKING PER DETAIL 6, SHEET C11.2
- ③ MATCH EXISTING MARKING
- ④ APPLY ENHANCED RUNWAY HOLDING POSITION PAVEMENT MARKING PER DETAIL 4, SHEET C11.2
- ⑤ APPLY SIX INCH (6") WIDE SOLID YELLOW TAXIWAY CENTERLINE PAVEMENT MARKING PER DETAIL 2, SHEET C11.2
- ⑥ APPLY DOUBLE SIX INCH (6") WIDE SOLID YELLOW TAXIWAY EDGE PAVEMENT MARKING PER DETAIL 3, C11.2
- ⑦ APPLY TEMPORARY DOUBLE SIX INCH (6") WIDE SOLID YELLOW TAXIWAY EDGE PAVEMENT MARKING PER DETAIL 3, C11.2
- ⑧ REFER TO DETAIL 5, SHEET C11.2 FOR RUNWAY/TAXIWAY INTERSECTION INFORMATION
- ⑨ APPLY THIRTY-SIX INCH (36") WIDE SOLID YELLOW TAXIWAY SHOULDER PAVEMENT MARKING PER DETAIL 1, SHEET C11.3
- ⑩ APPLY SURFACE PAINTED HOLD POSITION SIGN PER DETAIL 2, SHEET C11.3
- ⑪ APPLY BLACK PAINT TO PCC PAVEMENT THAT LIES OUTSIDE OF TAXIWAY EDGE MARKINGS (NPI)

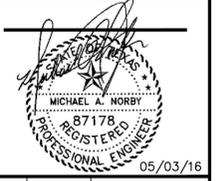


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**RUNWAY 12R-30L
ELECTRICAL IMPROVEMENTS
AND TERMINAL AREA
TAXIWAY IMPROVEMENTS
(PACKAGE 4)**



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SHEET TITLE:

PAVEMENT
MARKING PLAN -
TAXIWAY J -
ALTERNATE 1

C11.5
SHEET NO. 104 OF 157



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**RUNWAY 12R-30L
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AND TERMINAL AREA
TAXIWAY IMPROVEMENTS
(PACKAGE 4)**



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**STORM WATER
POLLUTION
PREVENTION PLAN -
TAXIWAY J -
ALTERNATE 1**

C12.5
SHEET NO. 105 OF 157

LEGEND

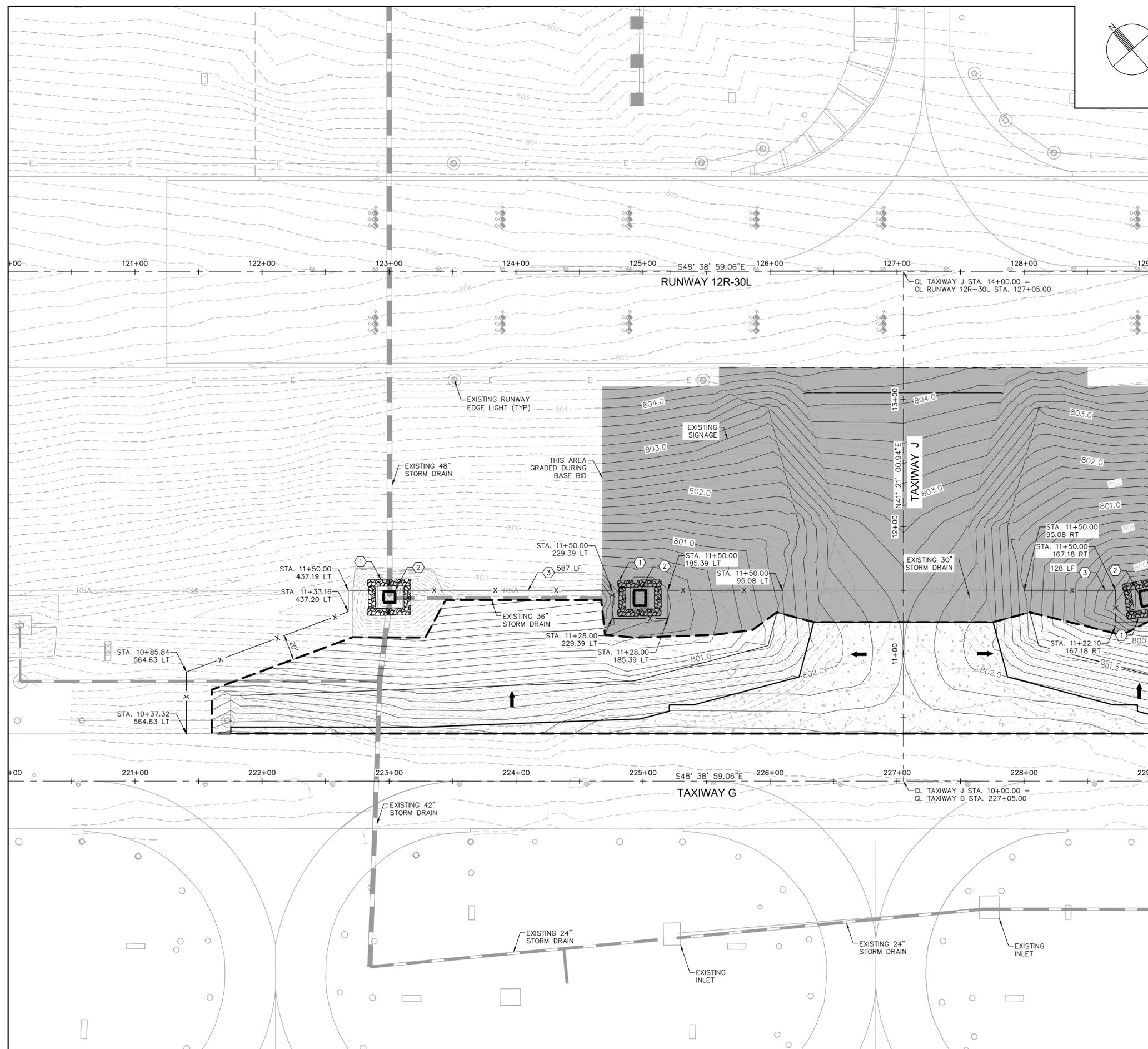
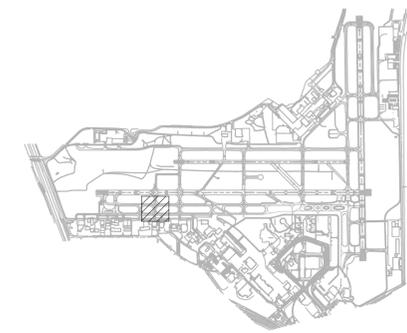
- PORTLAND CEMENT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE TRANSITION
- ASPHALT CONCRETE SHOULDER PAVEMENT
- ROCK FILTER DAM
- DRAINAGE INLET PROTECTION
- FLOW DIRECTION ARROW
- GRADING LIMITS
- EXISTING CONTOUR
- PROPOSED CONTOUR
- SEDIMENT CONTROL FENCE
- PROPOSED STORM DRAIN
- EXISTING STORM DRAIN

GENERAL NOTES

- THE PURPOSE OF THE SWPPP IS TO PROTECT THE EXISTING DRAINAGE BASINS, CHANNELS, AND PIPE NETWORKS FROM SEDIMENTATION AND CONTAMINANTS.
- THIS PROPOSED LAYOUT SHOWS THE FINAL CONDITION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING BMP INSTALLATIONS DURING CONSTRUCTION.
- PLACE WATTLES IN FRONT OF ALL INLETS.
- SEE SPECIFICATION T-904 FOR SODDING REQUIREMENTS.
- REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.
- LIMITS OF SODDING ARE A TYPICAL WIDTH OF 15 FEET OFF OF THE EDGES OF PROPOSED PAVEMENT.
- INLET PROTECTION TO BE PLACED ON EXISTING STORM DRAIN INLETS INITIALLY AND REMOVED UPON DEMOLITION OF EXISTING STORM DRAIN SYSTEM. INLET PROTECTION SHALL BE PLACED ON PROPOSED STORM DRAIN INLETS UPON THEIR CONSTRUCTION.
- SILT FENCE MUST BE REMOVED FROM RUNWAY SAFETY AREA PRIOR TO OPENING OF RUNWAY.
- A NOTAM SHALL BE ISSUED DURING THIS PHASE THAT WORK WILL BE COMPLETED ON TAXIWAY J, OUTSIDE THE RSA, WHILE STORM WATER MEASURES WILL BE WITHIN THE RSA.

CONSTRUCTION NOTES

- INSTALL ROCK FILTER DAM PER DETAIL SHEET C12.3.
- INSTALL CATCH BASIN PROTECTION PER DETAIL SHEET C12.4.
- INSTALL SEDIMENT CONTROL FENCE PER DETAIL SHEET C12.3.



MATCHLINE - SEE SHEET C12.6

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**RUNWAY 12R-30L
ELECTRICAL IMPROVEMENTS
AND TERMINAL AREA
TAXIWAY IMPROVEMENTS
(PACKAGE 4)**



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PROJECT NO:	33-0019X
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**STORM WATER
POLLUTION
PREVENTION PLAN
- TAXIWAY J -
ALTERNATE 1**

LEGEND

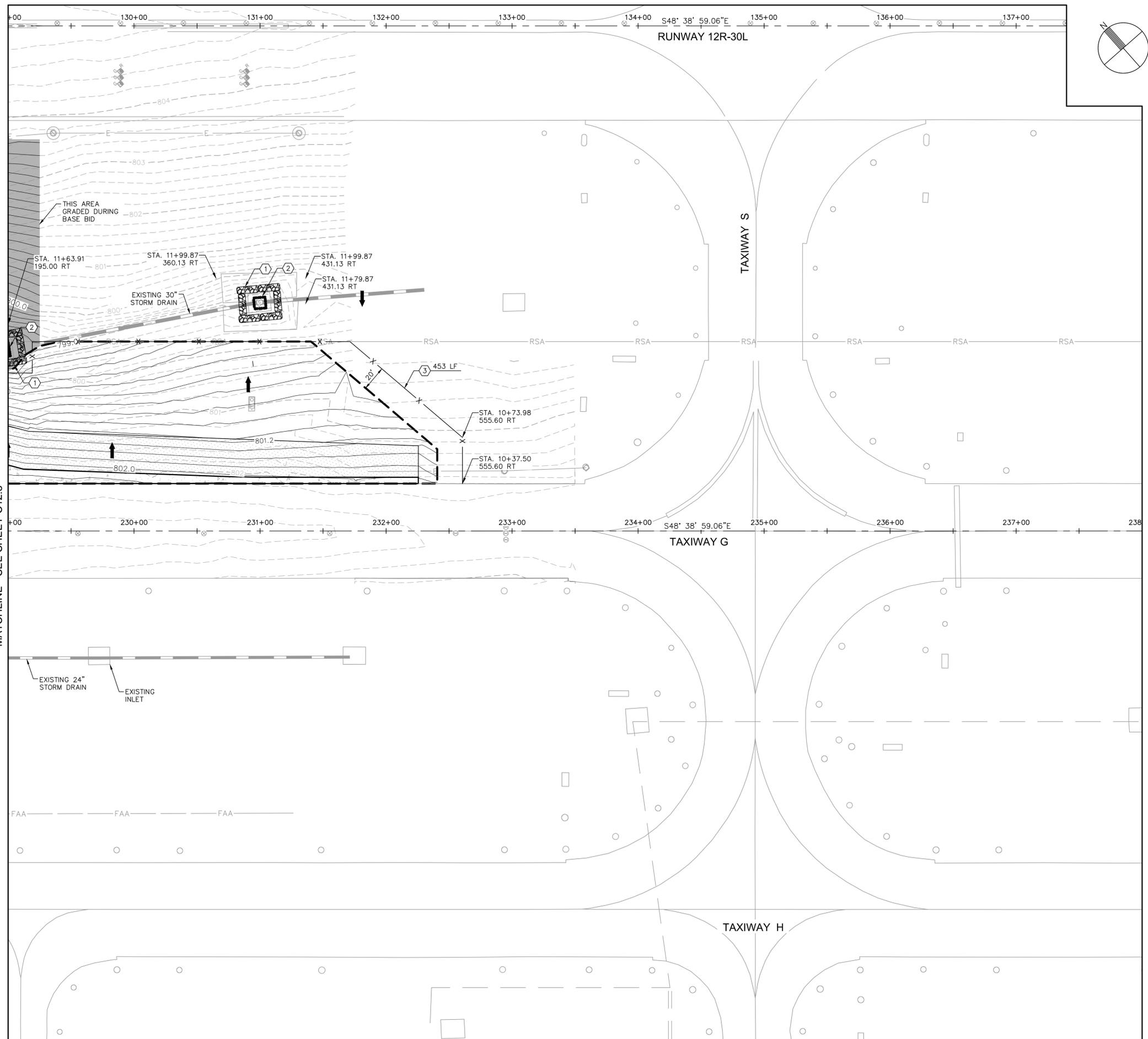
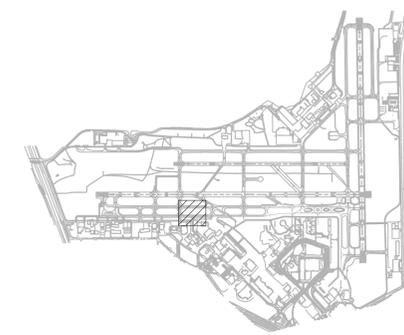
- PORTLAND CEMENT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE TRANSITION
- ASPHALT CONCRETE SHOULDER PAVEMENT
- ROCK FILTER DAM
- DRAINAGE INLET PROTECTION
- FLOW DIRECTION ARROW
- GRADING LIMITS
- EXISTING CONTOUR
- PROPOSED CONTOUR
- SEDIMENT CONTROL FENCE
- PROPOSED STORM DRAIN
- EXISTING STORM DRAIN

GENERAL NOTES

1. THE PURPOSE OF THE SWPPP IS TO PROTECT THE EXISTING DRAINAGE BASINS, CHANNELS, AND PIPE NETWORKS FROM SEDIMENTATION AND CONTAMINANTS.
2. THIS PROPOSED LAYOUT SHOWS THE FINAL CONDITION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING BMP INSTALLATIONS DURING CONSTRUCTION.
3. PLACE WATTLES IN FRONT OF ALL INLETS.
4. SEE SPECIFICATION T-904 FOR SODDING REQUIREMENTS.
5. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.
6. LIMITS OF SODDING ARE A TYPICAL WIDTH OF 15 FEET OFF OF THE EDGES OF PROPOSED PAVEMENT.
7. INLET PROTECTION TO BE PLACED ON EXISTING STORM DRAIN INLETS INITIALLY AND REMOVED UPON DEMOLITION OF EXISTING STORM DRAIN SYSTEM. INLET PROTECTION SHALL BE PLACED ON PROPOSED STORM DRAIN INLETS UPON THEIR CONSTRUCTION.
8. SILT FENCE MUST BE REMOVED FROM RUNWAY SAFETY AREA PRIOR TO OPENING OF RUNWAY.
9. A NOTAM SHALL BE ISSUED DURING THIS PHASE THAT WORK WILL BE COMPLETED ON TAXIWAY J, OUTSIDE THE RSA, WHILE STORM WATER MEASURES WILL BE WITHIN THE RSA.

CONSTRUCTION NOTES

- ① INSTALL ROCK FILTER DAM PER DETAIL SHEET C12.3.
- ② INSTALL CATCH BASIN PROTECTION PER DETAIL SHEET C12.4.
- ③ INSTALL SEDIMENT CONTROL FENCE PER DETAIL SHEET C12.3.



MATCHLINE - SEE SHEET C12.5

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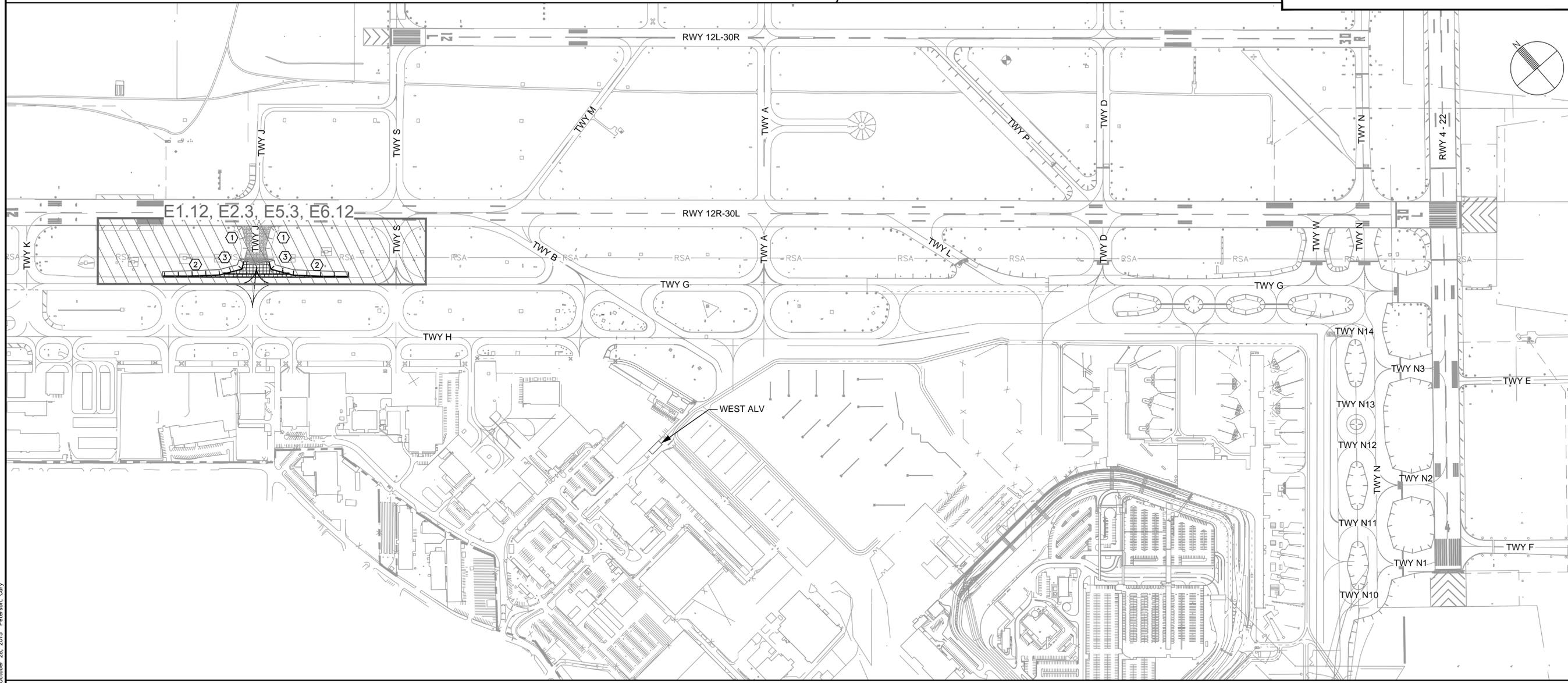
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**RUNWAY 12R-30L
ELECTRICAL IMPROVEMENTS
AND TERMINAL AREA
TAXIWAY IMPROVEMENTS
(PACKAGE 4)**



TERMINAL AREA TAXIWAY IMPROVEMENTS TAXIWAY JULIET PACKAGE 4 - ALTERNATE 1

PROJECT NO. 33-00193X
FAA AIP 3-48-0192-XX-2015

ELECTRICAL SCOPE OF WORK - PACKAGE 4 - ALTERNATE 1

- ① INSTALL NEW LED TAXIWAY EDGE LIGHTS ON NEW OR PREVIOUSLY INSTALLED L-867 BASES WITH NEW OR PREVIOUSLY INSTALLED CONDUIT AND CABLES ON TAXIWAY 'J' SHOULDERS IN INDICATED AREAS.
- ② SALVAGE AND REINSTALL EXISTING ELEVATED QUARTZ TAXIWAY EDGE LIGHTS WITH NEW ISOLATION TRANSFORMERS ON NEW L-867 BASES WITH NEW CONDUIT AND CABLES ALONG TAXIWAY 'G' AT TAXIWAY 'J' INTERSECTION.
- ③ INSTALL NEW SIGNS WITH NEW ISOLATION TRANSFORMERS ON CONCRETE FOUNDATIONS INSTALLED IN BASE BID.

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ELECTRICAL SCOPE
OF WORK -
ALTERNATE 1



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**RUNWAY 12R-30L
ELECTRICAL IMPROVEMENTS
AND TERMINAL AREA
TAXIWAY IMPROVEMENTS
(PACKAGE 4)**



LEGEND

- LOW LEVEL BARRICADES, SEE CIVIL DRAWINGS
- ▲▲▲▲▲ LINKED LOW LEVEL BARRICADES, SEE CIVIL DRAWINGS
- TSA — TAXIWAY SAFETY AREA
- TOFA — TAXIWAY OBJECT FREE AREA
- X — ORANGE SAFETY FENCE, SEE CIVIL DRAWINGS
- ✈ TAXIING AIRCRAFT
- ▨ PACKAGE 4 - ALTERNATE 1

GENERAL NOTES:

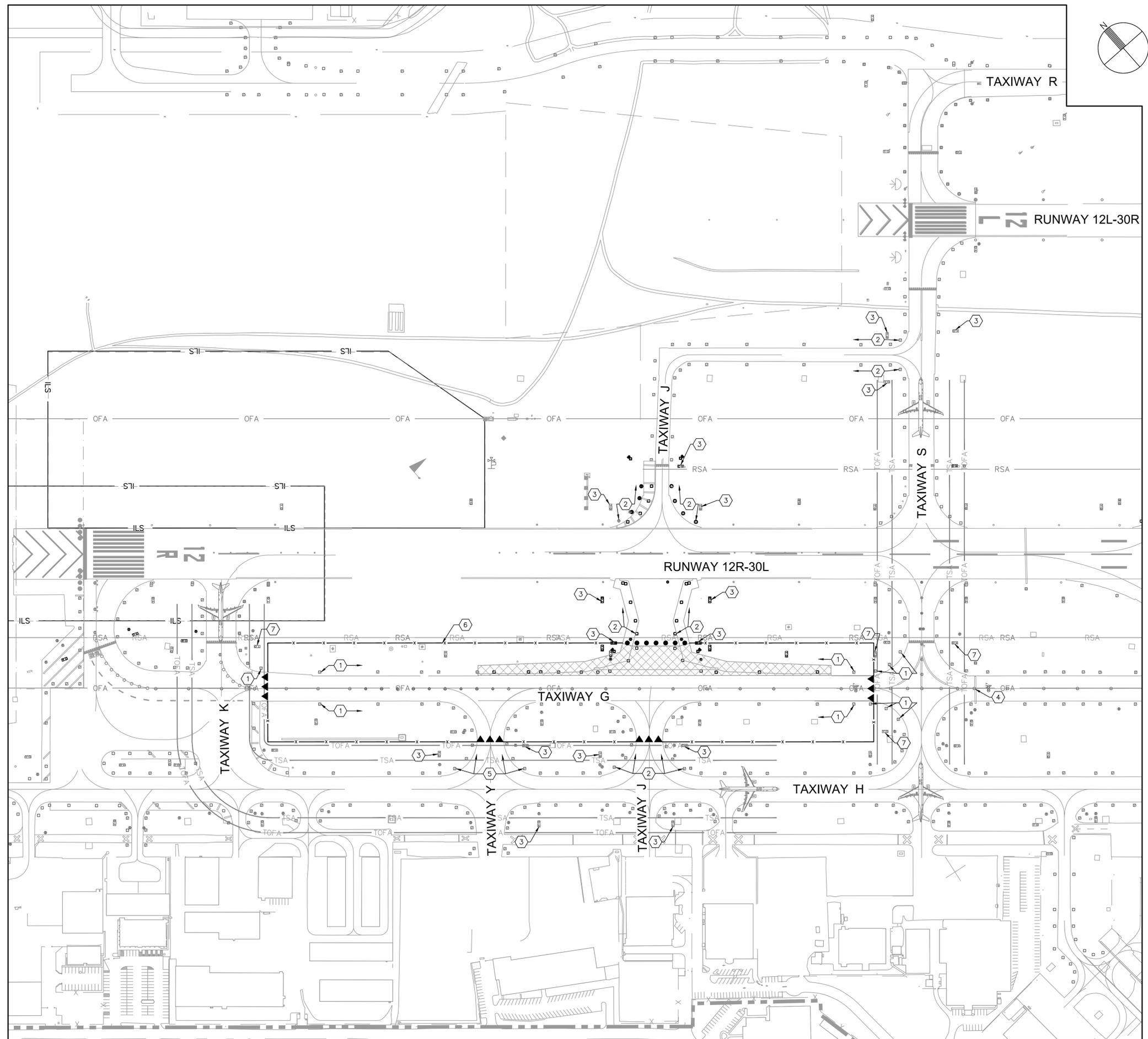
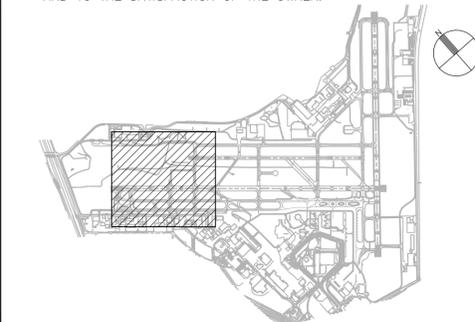
1. TEMPORARY CIRCUITS ARE TO BE INSTALLED AS NECESSARY TO MAINTAIN THE OPEN PORTIONS OF THE AIRFIELD.
2. SEE CIRCUIT MAPS ON E4 SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
3. CONTRACTOR IS TO COORDINATE ALL POWER OR LIGHTING OUTAGES WITH SAT OPERATIONS PRIOR TO ANY WORK.
4. SEE E5 SERIES FOR SIGNS THAT ARE TO BE COVERED DURING CONSTRUCTION.
5. COORDINATE WITH CONSTRUCTION PHASING PLANS, C2 SERIES DRAWINGS.

CONSTRUCTION NOTES:

- 1 COVER ELEVATED TAXIWAY EDGE LIGHTS ALONG TWY 'G' BETWEEN TWY 'K' AND TWY 'S' WITH PVC PIPE SECTIONS, SEE DETAIL ON SHEET E3.10.
- 2 TURN OFF TAXIWAY JULIET EDGE LIGHT CIRCUIT (CKT 9) ENTIRELY.
- 3 COVER SIGNS OUTSIDE CIVIL SAFETY FENCE AND BARRICADES, SEE DETAIL ON SHEET E3.1.
- 4 SHORTEN TAXIWAY GOLF CENTERLINE LIGHT CIRCUIT G-CL-WEST (CKT 16) AT LOCATION SHOWN. SPLICE CONDUCTORS TO THE EAST TO MAINTAIN THE LIVE CIRCUIT TO THE EAST. PROTECT THE CONDUCTORS TO THE WEST FOR REATTACHMENT AT THE END OF THIS PHASE.
- 5 COVER ELEVATED TAXIWAY EDGE LIGHTS ALONG TWY 'Y' BETWEEN TWY 'H' AND TWY 'G' WITH PVC PIPE SECTIONS, SEE DETAIL ON SHEET E3.10.
- 6 COVER ALL SIGNS INSIDE CIVIL SAFETY FENCE AND BARRICADES, SEE DETAIL ON SHEET E3.1.
- 7 PARTIALLY COVER SIGNS OUTSIDE CIVIL BARRICADES PER DETAIL ON SHEET E3.1.

LENS COVER NOTES:

1. COVER LENS WITH MATTE FINISH, VINYL COATED, NO-RESIDUE GAFFER'S TAPE, COLOR BLACK, 2" WIDE (3M MODEL 6910 OR EQUAL). CONTRACTOR TO SUBMIT SAMPLE OF PROPOSED TAPE FOR ENGINEER'S REVIEW.
2. LENS COVERING SHALL SEAL AROUND THE LENS AND EXTEND 2" MINIMUM BEYOND THE LENS ONTO THE FIXTURE BODY. LENS COVERING SHALL BLOCK ALL LIGHT EMANATING FROM THE FIXTURE.
3. CONTRACTOR SHALL CLEAN ANY ADHESIVE RESIDUE OFF THE LENSES OF TEMPORARILY COVERED CENTERLINE LIGHTS. CLEANING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS AND TO THE SATISFACTION OF THE OWNER.



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