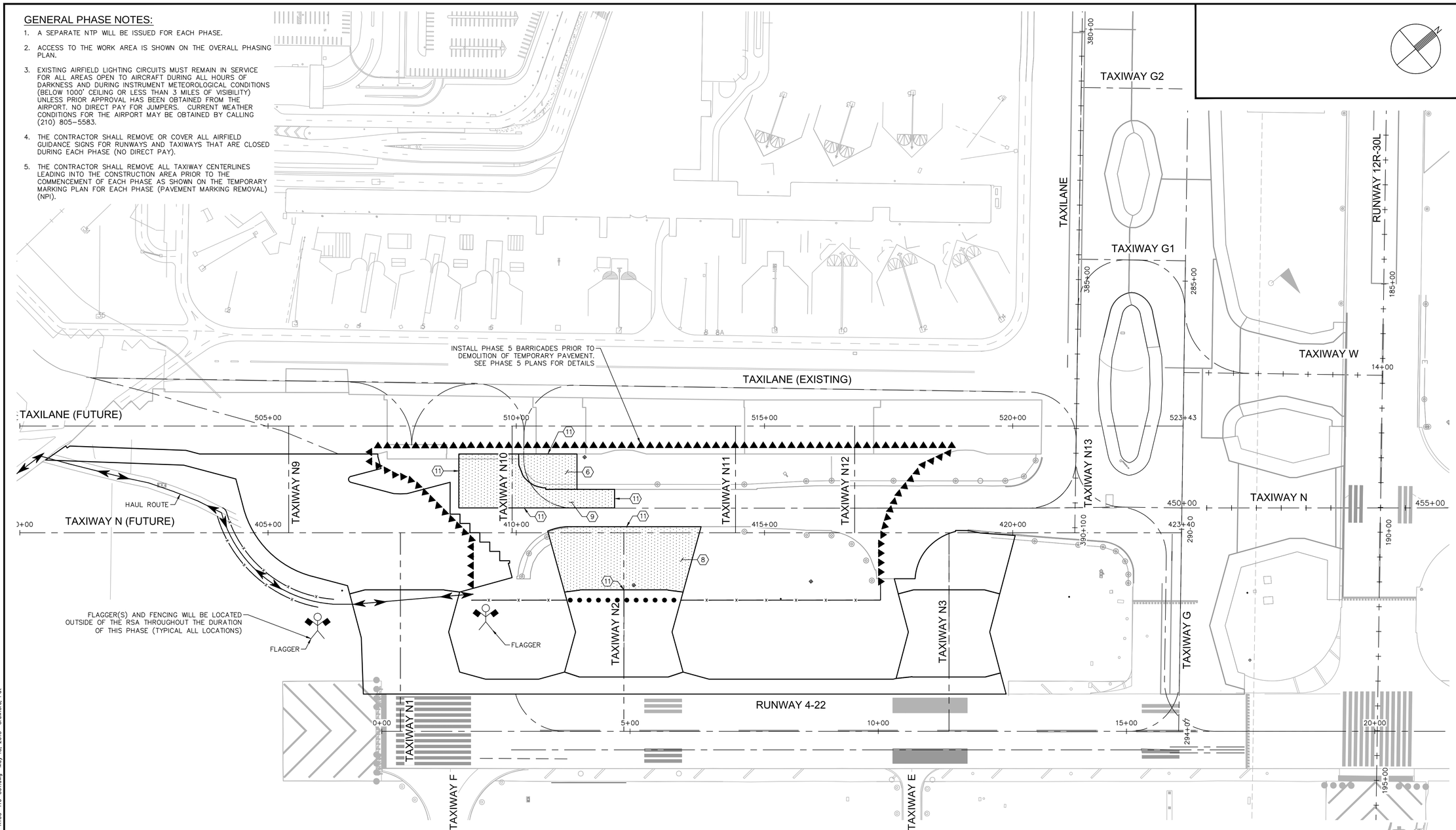
GENERAL PHASE NOTES:

1. A SEPARATE NTP WILL BE ISSUED FOR EACH PHASE.
2. ACCESS TO THE WORK AREA IS SHOWN ON THE OVERALL PHASING PLAN.
3. EXISTING AIRFIELD LIGHTING CIRCUITS MUST REMAIN IN SERVICE FOR ALL AREAS OPEN TO AIRCRAFT DURING ALL HOURS OF DARKNESS AND DURING INSTRUMENT METEOROLOGICAL CONDITIONS (BELOW 1000' CEILING OR LESS THAN 3 MILES OF VISIBILITY) UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE AIRPORT. NO DIRECT PAY FOR JUMPERS. CURRENT WEATHER CONDITIONS FOR THE AIRPORT MAY BE OBTAINED BY CALLING (210) 805-5583.
4. THE CONTRACTOR SHALL REMOVE OR COVER ALL AIRFIELD GUIDANCE SIGNS FOR RUNWAYS AND TAXIWAYS THAT ARE CLOSED DURING EACH PHASE (NO DIRECT PAY).
5. THE CONTRACTOR SHALL REMOVE ALL TAXIWAY CENTERLINES LEADING INTO THE CONSTRUCTION AREA PRIOR TO THE COMMENCEMENT OF EACH PHASE AS SHOWN ON THE TEMPORARY MARKING PLAN FOR EACH PHASE (PAVEMENT MARKING REMOVAL) (NPI).



LEGEND

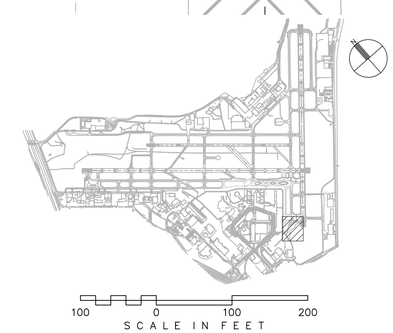
- PORTLAND CEMENT CONCRETE PAVEMENT REMOVAL
- CLEAR AND GRUB (P-101)
- FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
- 2' AC PAVEMENT REMOVAL BY MILLING
- STORM DRAIN REMOVAL
- PAVEMENT MARKING OBLITERATION
- PHASING LIMITS

GENERAL NOTES

1. EXISTING UTILITY INFORMATION SHOWN ON THE PLANS CONCERNING THE TYPE, SIZE, AND LOCATION WERE COMPILED BASED ON THE UTILITY RECORDS AVAILABLE TO THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OR SPECIFIED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE RESET OR RELOCATED BY THE UTILITY COMPANY CONCERNED UNLESS NOTED OTHERWISE.
2. REFER TO SHEET C1.9 FOR HORIZONTAL AND VERTICAL CONTROL.
3. REFER TO ELECTRICAL PLANS (SERIES E) FOR ELECTRICAL DEMOLITION.
4. DOUBLE SAWCUT IS REQUIRED ALONG PCC REMOVAL LIMITS TO PROTECT EXISTING PCC PAVEMENT TO REMAIN.
5. STATIONING IS BASED ON FUTURE TAXILANE CENTERLINE STATIONING.

CONSTRUCTION NOTES

1. SAWCUT EXISTING PCC PAVEMENT – FULL DEPTH
2. REMOVE AND DISPOSE OF EXISTING PCC PAVEMENT OFFSITE
3. REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE, LIMITS OF REMOVAL PER PLAN
4. REMOVE AND DISPOSE OF EXISTING DRAINAGE STRUCTURE
5. REFER TO ELECTRICAL PLANS (SERIES E)
6. REMOVE AND DISPOSE OF EXISTING AC PAVEMENT OFFSITE
7. PAVEMENT MARKING TO BE OBLITERATED
8. FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
9. VARIABLE DEPTH AC PAVEMENT REMOVAL BY MILLING
10. CLEAR AND GRUB
11. SAWCUT EXISTING AC PAVEMENT
12. PROTECT IN PLACE



CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166
TEXAS REGISTERED FIRM, NO. 928

TERMINAL AREA TAXIWAY IMPROVEMENTS - (PACKAGE 3)

MICHAEL A. NORBY 87178 REGISTERED PROFESSIONAL ENGINEER
05/18/15

MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO:	33-00193
FILE NAME:	_33-00193-R1CO-410-C01
DRAWN BY:	CAD
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SHEET TITLE:

PHASE 5 - TEMPORARY DEMOLITION - ALTERNATE 1

C2.19

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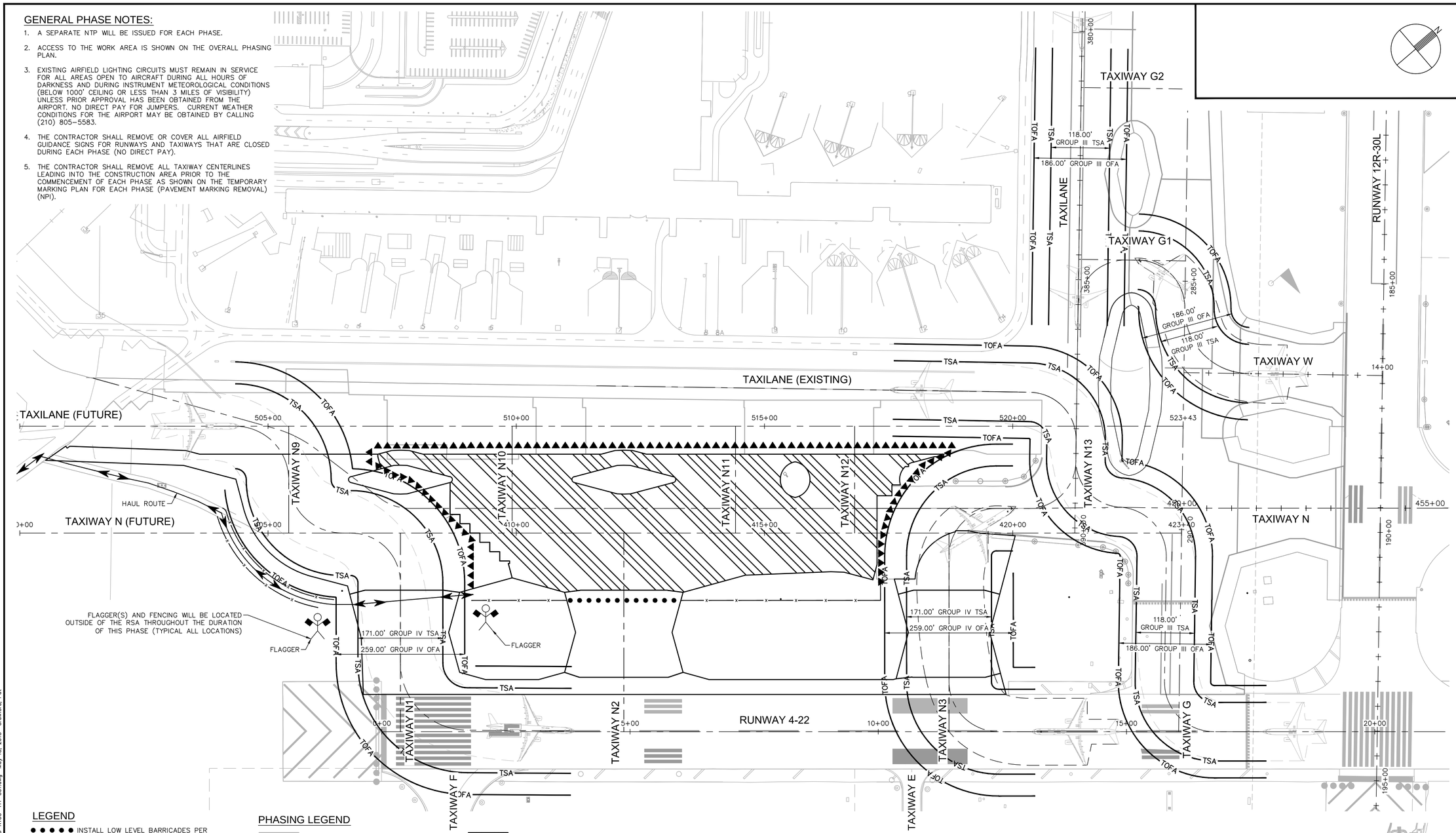
GENERAL PHASE NOTES:

1. A SEPARATE NTP WILL BE ISSUED FOR EACH PHASE.
2. ACCESS TO THE WORK AREA IS SHOWN ON THE OVERALL PHASING PLAN.
3. EXISTING AIRFIELD LIGHTING CIRCUITS MUST REMAIN IN SERVICE FOR ALL AREAS OPEN TO AIRCRAFT DURING ALL HOURS OF DARKNESS AND DURING INSTRUMENT METEOROLOGICAL CONDITIONS (BELOW 1000' CEILING OR LESS THAN 3 MILES OF VISIBILITY) UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE AIRPORT. NO DIRECT PAY FOR JUMPERS. CURRENT WEATHER CONDITIONS FOR THE AIRPORT MAY BE OBTAINED BY CALLING (210) 805-5583.
4. THE CONTRACTOR SHALL REMOVE OR COVER ALL AIRFIELD GUIDANCE SIGNS FOR RUNWAYS AND TAXIWAYS THAT ARE CLOSED DURING EACH PHASE (NO DIRECT PAY).
5. THE CONTRACTOR SHALL REMOVE ALL TAXIWAY CENTERLINES LEADING INTO THE CONSTRUCTION AREA PRIOR TO THE COMMENCEMENT OF EACH PHASE AS SHOWN ON THE TEMPORARY MARKING PLAN FOR EACH PHASE (PAVEMENT MARKING REMOVAL) (NPI).



LEGEND

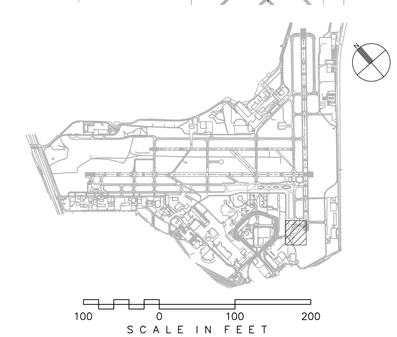
- INSTALL LOW LEVEL BARRICADES PER DETAIL 2, SHEET C2.5
- INSTALL LINKED LOW LEVEL BARRICADES PER DETAIL 3, SHEET C2.5
- AIRCRAFT WINGTIP
- TSA — TAXIWAY SAFETY AREA
- TOFA — TAXIWAY OBJECT FREE AREA
- INSTALL ORANGE SAFETY FENCE PER DETAIL 4 SHEET C2.5
- HAUL ROUTE
- FLAGGER (TO BE SUPPLIED BY CONTRACTOR)
- PORTABLE LIGHTED RUNWAY CLOSURE MARKER PROVIDED BY THE CONTRACTOR PER DETAIL 1, SHEET C2.5

PHASING LEGEND

- PACKAGE 2 – BASE BID B (50 DAYS)
- PACKAGE 2 – BASE BID D (50 DAYS) (03/11/16 START DATE)
- PACKAGE 2 – ALTERNATE 2C (40 DAYS)
- PACKAGE 2 – ALTERNATE 2B (55 DAYS)
- PACKAGE 2 – ALTERNATE 2A (45 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 1 (55 DAYS)(03/11/16 START DATE)
- PACKAGE 3 – ALTERNATE 1 PHASE 2 (45 DAYS)(ALL NIGHTWORK)
- PACKAGE 3 – ALTERNATE 1 PHASE 3A (50 DAYS), PHASE 3B (60 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 4 (95 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 5 (125 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 6 (70 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 7 (85 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 8 (55 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 9 (50 DAYS)

ALTERNATE 1 PHASE 5 NOTES:

1. ALTERNATE 1 PHASE 5 CAN BEGIN WITH THE COMPLETION AND ACCEPTANCE OF ALTERNATE 1 PHASE 4.
2. ALTERNATE 1 PHASE 5 CONSISTS OF THE RELOCATION OF TAXIWAY N 50' CLOSER TO THE RUNWAY AND INTRODUCES THREE NEW CONNECTING TAXIWAYS (TAXIWAYS N10, N11, AND N12) TO MEET THE GEOMETRIC REQUIREMENTS OF THE NEW DESIGN ADVISORY CIRCULAR.
3. FENCING AND BARRICADES MUST BE PLACED AS SHOWN AND OUT OF THE INDIVIDUAL TAXIWAY OBJECT FREE AREA (TOFA) AS SHOWN.
4. RUNWAY 4-22 WILL BE OPENED AS A RUNWAY AT THE BEGINNING OF THIS PHASE.
5. ANY WORK REQUIRED TO BE COMPLETED WITHIN A TAXIWAY OBJECT FREE AREA (TOFA) OR A TAXIWAY SAFETY AREA (TSA) WILL REQUIRE A TEMPORARY CLOSURE AND POSSIBLE NIGHT WORK UNTIL THE WORK WITHIN THAT AREA IS COMPLETED.



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PHONE: (210) 541-9166
TEXAS REGISTERED FIRM, NO. 928

TERMINAL AREA TAXIWAY IMPROVEMENTS - (PACKAGE 3)

MICHAEL A. NORBY 87178 REGISTERED PROFESSIONAL ENGINEER 05/18/15

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ALTERNATE 1 - PHASE 5 PLAN

C2.20

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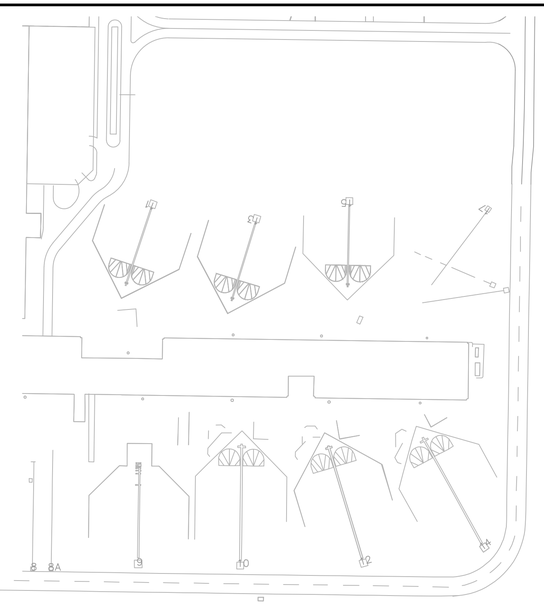
PHASE 5 PAVEMENT LIMITS – ALTERNATE 1		
LINE #	LENGTH	DIRECTION
L500	9.714	N25° 43' 39.45"E
L501	9.714	N25° 43' 39.45"E
L502	8.975	N25° 43' 39.45"E
L503	18.012	N38° 23' 30.43"E
L504	18.012	N42° 38' 26.94"E
L505	28.403	N55° 18' 17.92"E
L506	359.076	N40° 30' 58.68"E
L507	28.403	N25° 43' 39.45"E
L508	18.012	N38° 23' 30.43"E
L509	18.012	N42° 38' 26.94"E
L510	28.403	N55° 18' 17.92"E
L511	599.076	N40° 30' 58.68"E
L512	5.000	S49° 29' 01.32"E
L513	18.939	S40° 30' 58.68"W
L514	44.828	S25° 43' 39.45"W
L515	5.000	S49° 29' 01.32"E
L516	6.763	S40° 30' 58.68"W
L517	17.048	S40° 30' 58.68"W
L518	21.875	S49° 29' 01.32"E
L519	30.000	S40° 30' 58.68"W

PHASE 5 PAVEMENT LIMITS – ALTERNATE 1		
LINE #	LENGTH	DIRECTION
L520	138.299	S49° 29' 01.32"E
L521	32.000	S34° 41' 42.08"E
L522	60.267	S55° 18' 17.92"W
L523	26.576	S42° 38' 26.94"W
L524	172.489	S38° 12' 06.88"W
L525	129.942	S25° 05' 38.90"W
L526	30.303	S47° 50' 04.23"W
L527	2.000	S55° 56' 18.47"W
L528	174.816	S40° 30' 58.68"W
L529	2.000	S25° 05' 38.90"W
L530	30.303	S33° 11' 53.13"W
L531	109.553	S55° 56' 18.47"W
L532	30.002	N64° 16' 07.30"W
L533	2.656	N40° 30' 58.68"E
L534	5.000	N49° 29' 01.32"W
L535	20.000	S40° 30' 58.68"W
L536	18.750	N49° 29' 01.32"W
L537	20.000	S40° 30' 58.68"W
L538	18.750	N49° 29' 01.32"W
L539	20.000	S40° 30' 58.68"W

PHASE 5 PAVEMENT LIMITS – ALTERNATE 1		
LINE #	LENGTH	DIRECTION
L540	18.750	N49° 29' 01.32"W
L541	20.000	S40° 30' 58.68"W
L542	18.750	N49° 29' 01.32"W
L543	20.000	S40° 30' 58.68"W
L544	18.750	N49° 29' 01.32"W
L545	20.000	S40° 30' 58.68"W
L546	31.079	N49° 29' 01.32"W
L547	31.051	N49° 19' 24.49"W
L548	89.490	S55° 18' 17.92"W
L549	13.570	S42° 38' 26.94"W
L550	13.570	S38° 23' 30.43"W
L551	26.350	S25° 43' 39.45"W
L552	25.166	N64° 16' 20.55"W
L553	5.000	N49° 29' 01.32"W

PHASE 5 PAVEMENT LIMITS CURVE TABLE				
CURVE	LENGTH	RADIUS	TANGENT	DELTA
C500	9.41'	36.00'	4.732	14°58'40"
C501	40.20'	36.00'	22.488	63°58'57"
C502	15.75'	6.00'	22.727	150°25'22"



LEGEND

- ● ● ● ● ● INSTALL LOW LEVEL BARRICADES PER DETAIL 2, SHEET C2.5
- ▲▲▲▲▲ INSTALL LINKED LOW LEVEL BARRICADES PER DETAIL 3, SHEET C2.5
- × × × × OBLITERATE EXISTING PAVEMENT MARKING
- INSTALL TEMPORARY PAVEMENT MARKING
- APPLY TEMPORARY TAXIWAY CLOSURE MARKING PER DETAIL 4, SHEET C11.3

GENERAL NOTES

1. APPLY TEMPORARY SIX INCH (6") WIDE SOLID YELLOW TAXIWAY CENTERLINE PAVEMENT MARKING PER DETAIL 2, SHEET C11.2
2. APPLY TEMPORARY DOUBLE SIX INCH (6") WIDE SOLID YELLOW TAXIWAY EDGE PAVEMENT MARKING PER DETAIL 3, C11.2
3. APPLY TEMPORARY ENHANCED CENTERLINE PAVEMENT MARKING PER DETAIL 5, SHEET C11.2

CONSTRUCTION NOTES (CONTINUED)

4. REFER TO DETAIL 1, SHEET C11.3 FOR RUNWAY/TAXIWAY INTERSECTION INFORMATION
5. APPLY PERMANENT 36" SOLID WHITE RUNWAY CENTERLINE PAVEMENT MARKING PER DETAIL 6, SHEET C11.2
6. APPLY PERMANENT 36" SOLID WHITE RUNWAY EDGE LINE PAVEMENT MARKING PER DETAIL 1, SHEET C11.2
7. APPLY PERMANENT SOLID WHITE AIMING POINT MARKING PER DETAIL 4, SHEET C11.7
8. APPLY PERMANENT SOLID WHITE TOUCHDOWN ZONE MARKING PER DETAIL 4, SHEET C11.7
9. APPLY PERMANENT SOLID WHITE RUNWAY DESIGNATION MARKING PER DETAIL 4, SHEET C11.7
10. APPLY PERMANENT SOLID WHITE RUNWAY THRESHOLD MARKINGS PER DETAIL 4, SHEET C11.7
11. OBLITERATE EXISTING PAVEMENT MARKING
12. MATCH EXISTING MARKING

GENERAL NOTES

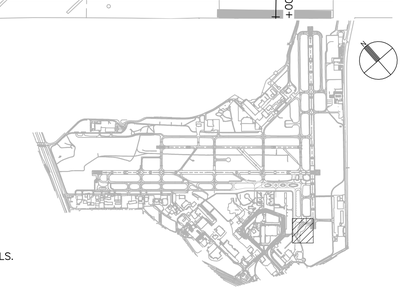
1. PAVEMENT MARKING DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL AVIATION ADMINISTRATION'S ADVISORY CIRCULAR AC-150/5340. IF A CONFLICT OCCURS BETWEEN THESE PLANS AND THE ADVISORY CIRCULAR, THE ADVISORY CIRCULAR SHALL TAKE PRECEDENCE.
2. THE CONTRACTOR SHALL REMOVE THE DESIGNATED PAVEMENT MARKINGS PRIOR TO THE APPLICATION OF TEMPORARY MARKINGS.
3. CONTRACTOR TO SURVEY EXISTING PAVEMENT MARKINGS SHOWN OUTSIDE OF PAVING LIMITS AND TO REINSTALL AT THOSE LOCATIONS UNLESS SPECIFIED OTHERWISE.
4. PROVIDE TEMPORARY APPLICATION OF ALL NEW PAVEMENT MARKINGS AS PER SPECIFICATIONS.
5. ALL TEMPORARY MARKINGS. LOCATED ON PCC, SHALL HAVE A SIX-INCH (6") WIDE BLACK BORDER.
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 AND SAT OPERATIONS.
7. SURFACES THAT ARE OBSTRUCTED DUE TO DEBRIS OR FLAKING PAINT SHALL BE THOROUGHLY CLEANED AND SWEPT BEFORE APPLYING NEW MARKINGS.

GENERAL NOTES (CONTINUED)

8. ENGINEER TO REVIEW AND APPROVE PAVEMENT MARKING LAYOUT BEFORE MARKING IS PERFORMED.
9. REFER TO SHEET C1.9 FOR HORIZONTAL AND VERTICAL CONTROL.
10. REFER TO SHEET C11.2 AND C11.3 FOR FOR PAVEMENT MARKING DETAILS.
11. ALL TEMPORARY MARKINGS SHALL RECEIVE A 6" BLACK BORDER (TEMPORARY APPLICATION).

ALTERNATE 1 - PHASE 5 TEMPORARY PAVEMENT MARKING NOTES:

1. UPON COMPLETION OF THIS PHASE, ALL PAVEMENT MARKINGS ON NEW PAVEMENT WILL BE PERMANENT. SEE PAVEMENT MARKING SHEETS FOR DETAILS.
2. TEMPORARY APPLICATIONS WILL BE MADE FROM THE LIMITS OF PHASE 5 TO THE EXISTING APRON CENTERLINE.
3. REFER TO ELECTRICAL SHEETS FOR ALL TEMPORARY LIGHTING ASSOCIATED WITH THIS PHASE.



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CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

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TEXAS REGISTERED FIRM, NO. 928

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MICHAEL A. NORBY 87178 REGISTERED PROFESSIONAL ENGINEER
05/18/15

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PHASE 5 - TEMPORARY MARKINGS

C2.21

SHEET NO. 73 OF 140

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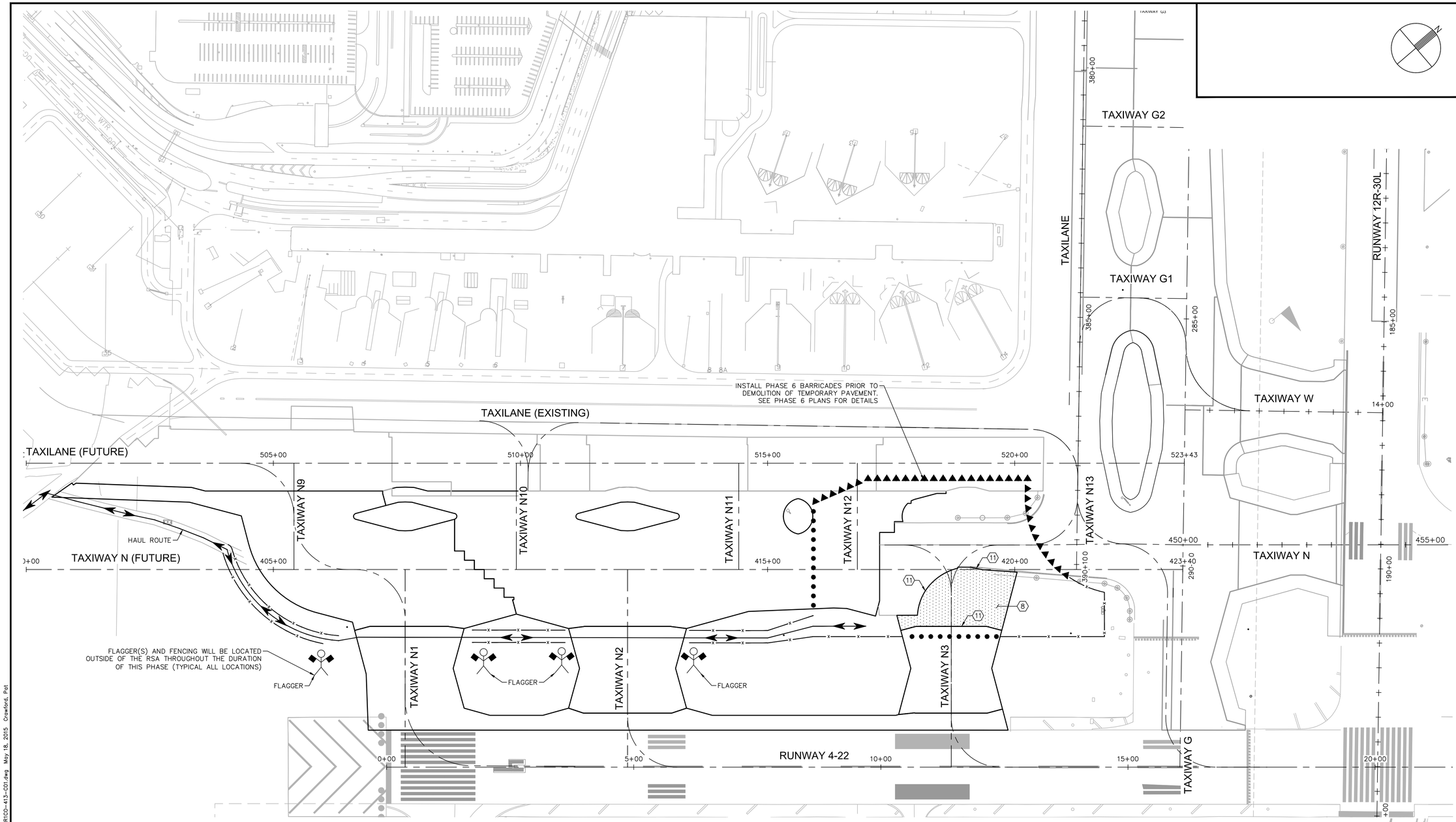

LEGEND

- PORTLAND CEMENT CONCRETE PAVEMENT REMOVAL
- CLEAR AND GRUB (P-101)
- FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
- 2' AC PAVEMENT REMOVAL BY MILLING
- STORM DRAIN REMOVAL
- PAVEMENT MARKING OBLITERATION
- PHASING LIMITS

GENERAL NOTES

1. EXISTING UTILITY INFORMATION SHOWN ON THE PLANS CONCERNING THE TYPE, SIZE, AND LOCATION WERE COMPILED BASED ON THE UTILITY RECORDS AVAILABLE TO THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OR SPECIFIED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE RESET OR RELOCATED BY THE UTILITY COMPANY CONCERNED UNLESS NOTED OTHERWISE.
2. REFER TO SHEET C1.9 FOR HORIZONTAL AND VERTICAL CONTROL.
3. REFER TO ELECTRICAL PLANS (SERIES E) FOR ELECTRICAL DEMOLITION.
4. DOUBLE SAWCUT IS REQUIRED ALONG PCC REMOVAL LIMITS TO PROTECT EXISTING PCC PAVEMENT TO REMAIN.
5. STATIONING IS BASED ON FUTURE TAXILANE CENTERLINE STATIONING.

CONSTRUCTION NOTES

1. SAWCUT EXISTING PCC PAVEMENT – FULL DEPTH
2. REMOVE AND DISPOSE OF EXISTING PCC PAVEMENT OFFSITE
3. REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE, LIMITS OF REMOVAL PER PLAN
4. REMOVE AND DISPOSE OF EXISTING DRAINAGE STRUCTURE
5. REFER TO ELECTRICAL PLANS (SERIES E)
6. REMOVE AND DISPOSE OF EXISTING AC PAVEMENT OFFSITE
7. PAVEMENT MARKING TO BE OBLITERATED
8. FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
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10. CLEAR AND GRUB
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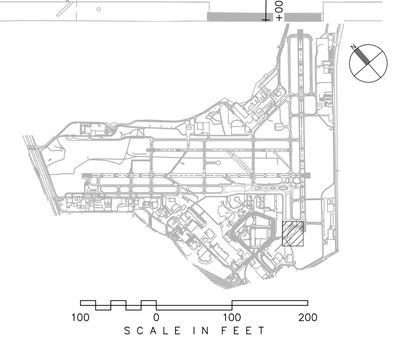
12. PROTECT IN PLACE



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PHASE 6 - TEMPORARY DEMOLITION - ALTERNATE 1

C2.22

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GENERAL PHASE NOTES:

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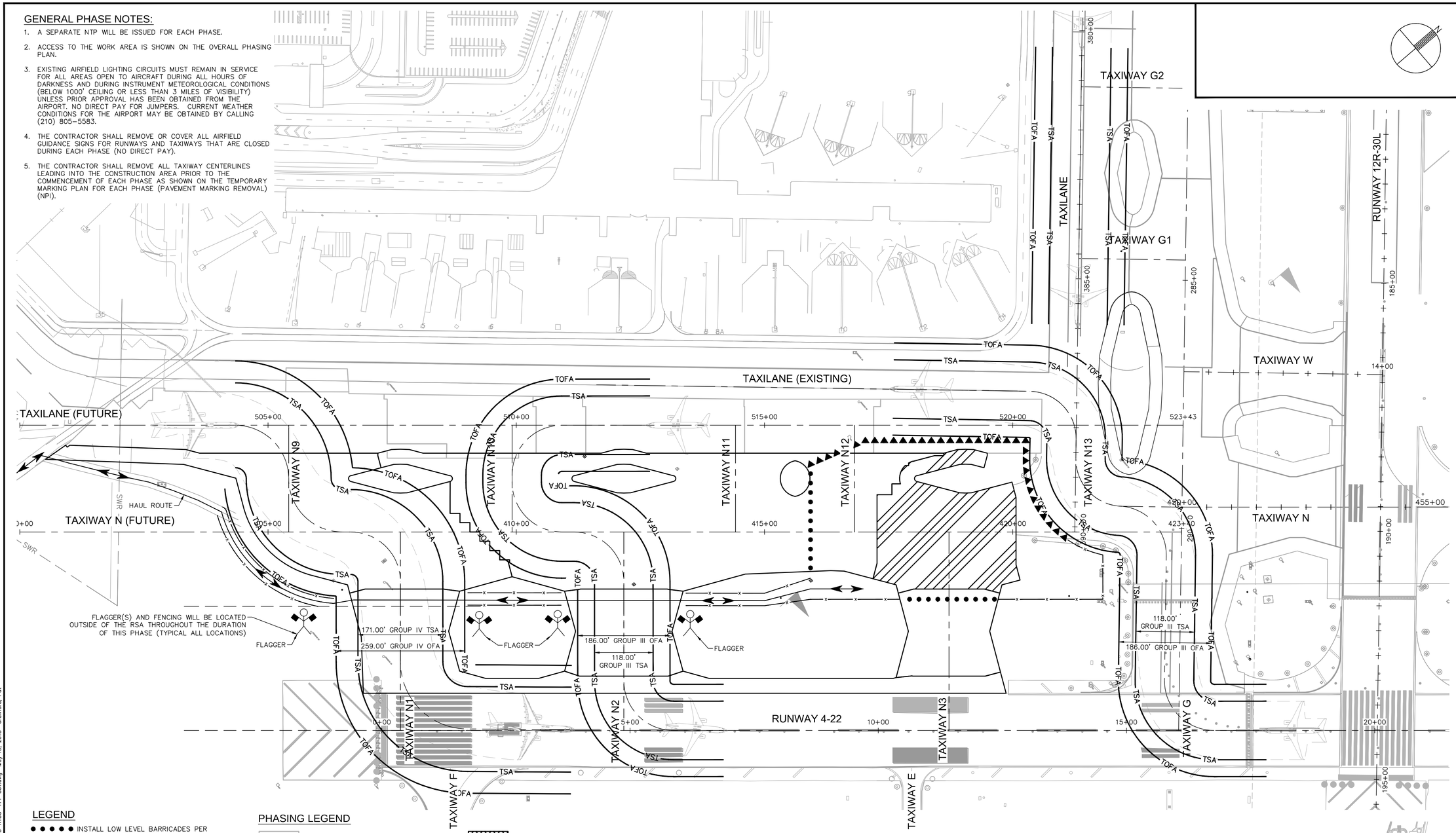

LEGEND

- INSTALL LOW LEVEL BARRICADES PER DETAIL 2, SHEET C2.22
- INSTALL LINKED LOW LEVEL BARRICADES PER DETAIL 3, SHEET C2.22
- AIRCRAFT WINGTIP
- TSA — TAXIWAY SAFETY AREA
- TOFA — TAXIWAY OBJECT FREE AREA
- INSTALL ORANGE SAFETY FENCE PER DETAIL 4 SHEET C2.5
- HAUL ROUTE
- FLAGGER (TO BE SUPPLIED BY CONTRACTOR)
- PORTABLE LIGHTED RUNWAY CLOSURE MARKER PROVIDED BY THE CONTRACTOR

PHASING LEGEND

- PACKAGE 2 – BASE BID B (50 DAYS)
- PACKAGE 2 – BASE BID D (50 DAYS) (03/11/16 START DATE)
- PACKAGE 2 – ALTERNATE 2C (40 DAYS)
- PACKAGE 2 – ALTERNATE 2B (55 DAYS)
- PACKAGE 2 – ALTERNATE 2A (45 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 1 (55 DAYS)(03/11/16 START DATE)
- PACKAGE 3 – ALTERNATE 1 PHASE 2 (45 DAYS)(ALL NIGHTWORK)
- PACKAGE 3 – ALTERNATE 1 PHASE 3A (50 DAYS), PHASE 3B (60 DAYS)
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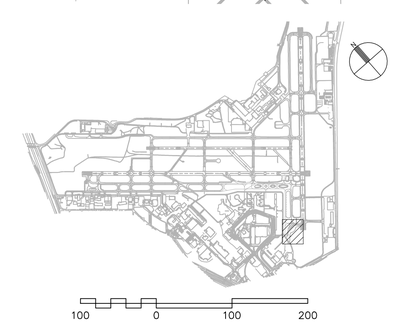
- PACKAGE 3 – ALTERNATE 1 PHASE 8 (55 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 9 (50 DAYS)

ALTERNATE 1 PHASE 6 NOTES:

1. ALTERNATE 1 PHASE 6 CAN BEGIN WITH THE COMPLETION AND ACCEPTANCE OF ALTERNATE 1 PHASE 5.
2. ALTERNATE 1 PHASE 6 INCLUDES THE RELOCATION OF TAXIWAY N 50' CLOSER TO THE RUNWAY AND RECONSTRUCTS THE INTERSECTION OF TAXIWAY N/E IN ITS ULTIMATE LOCATION.
3. FENCING AND BARRICADES MUST BE PLACED AS SHOWN AND OUT OF THE INDIVIDUAL TAXIWAY OBJECT FREE AREA (TOFA) AS SHOWN.
4. ALL TRAFFIC TO AND FROM THE WORK SITE MUST REMAIN CLEAR OF THE RUNWAY SAFETY AREA (RSA).
5. ANY WORK REQUIRED TO BE COMPLETED WITHIN A RUNWAY SAFETY AREA (RSA), TAXIWAY OBJECT FREE AREA (TOFA) OR A TAXIWAY SAFETY AREA (TSA) WILL REQUIRE A TEMPORARY CLOSURE UNTIL THE WORK WITHIN THAT AREA IS COMPLETED.



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SCALE IN FEET

CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166

TEXAS REGISTERED FIRM, NO. 928

TERMINAL AREA TAXIWAY IMPROVEMENTS - (PACKAGE 3)

STATE OF TEXAS
MICHAEL A. NORBY
87178
REGISTERED PROFESSIONAL ENGINEER
05/18/15

MARK	DATE	DESCRIPTION

ISSUE:

PROJECT NO:	33-00193
FILE NAME:	_33-00193-R1CO-414-C01
DRAWN BY:	CAD
CHECKED BY:	MAN
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SHEET TITLE:

ALTERNATE 1 - PHASE 6 PLAN

C2.23

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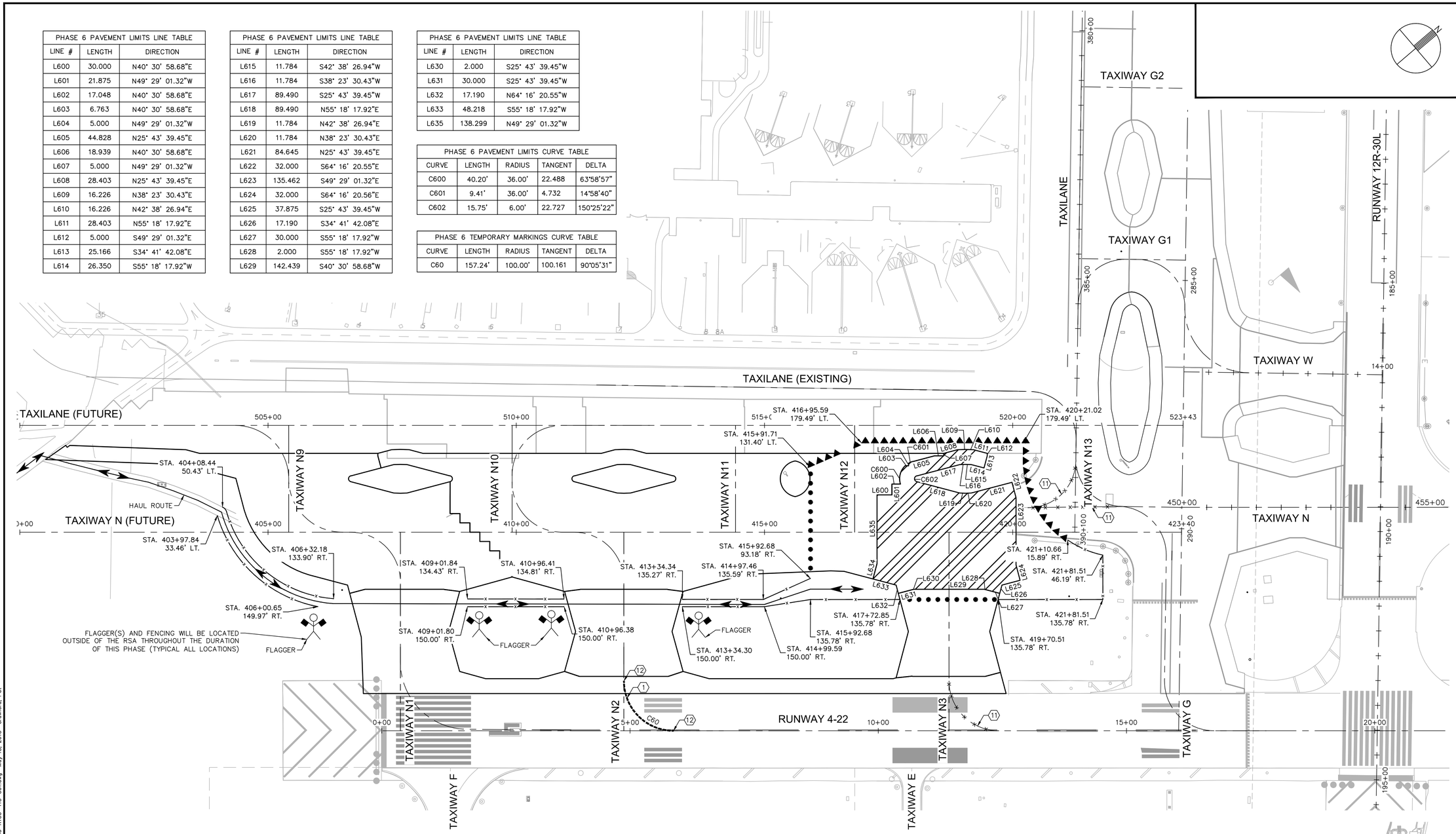
PHASE 6 PAVEMENT LIMITS LINE TABLE		
LINE #	LENGTH	DIRECTION
L600	30.000	N40° 30' 58.68"E
L601	21.875	N49° 29' 01.32"W
L602	17.048	N40° 30' 58.68"E
L603	6.763	N40° 30' 58.68"E
L604	5.000	N49° 29' 01.32"W
L605	44.828	N25° 43' 39.45"E
L606	18.939	N40° 30' 58.68"E
L607	5.000	N49° 29' 01.32"W
L608	28.403	N25° 43' 39.45"E
L609	16.226	N38° 23' 30.43"E
L610	16.226	N42° 38' 26.94"E
L611	28.403	N55° 18' 17.92"E
L612	5.000	S49° 29' 01.32"E
L613	25.166	S34° 41' 42.08"E
L614	26.350	S55° 18' 17.92"W

PHASE 6 PAVEMENT LIMITS LINE TABLE		
LINE #	LENGTH	DIRECTION
L615	11.784	S42° 38' 26.94"W
L616	11.784	S38° 23' 30.43"W
L617	89.490	S25° 43' 39.45"W
L618	89.490	N55° 18' 17.92"E
L619	11.784	N42° 38' 26.94"E
L620	11.784	N38° 23' 30.43"E
L621	84.645	N25° 43' 39.45"E
L622	32.000	S64° 16' 20.55"E
L623	135.462	S49° 29' 01.32"E
L624	32.000	S64° 16' 20.56"E
L625	37.875	S25° 43' 39.45"W
L626	17.190	S34° 41' 42.08"E
L627	30.000	S55° 18' 17.92"W
L628	2.000	S55° 18' 17.92"W
L629	142.439	S40° 30' 58.68"W

PHASE 6 PAVEMENT LIMITS LINE TABLE		
LINE #	LENGTH	DIRECTION
L630	2.000	S25° 43' 39.45"W
L631	30.000	S25° 43' 39.45"W
L632	17.190	N64° 16' 20.55"W
L633	48.218	S55° 18' 17.92"W
L635	138.299	N49° 29' 01.32"W

PHASE 6 PAVEMENT LIMITS CURVE TABLE				
CURVE	LENGTH	RADIUS	TANGENT	DELTA
C600	40.20'	36.00'	22.488	63°58'57"
C601	9.41'	36.00'	4.732	14°58'40"
C602	15.75'	6.00'	22.727	150°25'22"

PHASE 6 TEMPORARY MARKINGS CURVE TABLE				
CURVE	LENGTH	RADIUS	TANGENT	DELTA
C60	157.24'	100.00'	100.161	90°05'31"



LEGEND

- ● ● ● ● ● INSTALL LOW LEVEL BARRICADES PER DETAIL 2, SHEET C2.5
- ▲▲▲▲▲ INSTALL LINKED LOW LEVEL BARRICADES PER DETAIL 3, SHEET C2.5
- × × × × OBLITERATE EXISTING PAVEMENT MARKING
- INSTALL TEMPORARY PAVEMENT MARKING
- APPLY TEMPORARY TAXIWAY CLOSURE MARKING PER DETAIL 4, SHEET C11.3

GENERAL NOTES

1. APPLY TEMPORARY SIX INCH (6") WIDE SOLID YELLOW TAXIWAY CENTERLINE PAVEMENT MARKING PER DETAIL 2, SHEET C11.2
2. APPLY TEMPORARY DOUBLE SIX INCH (6") WIDE SOLID YELLOW TAXIWAY EDGE PAVEMENT MARKING PER DETAIL 3, C11.2
3. APPLY TEMPORARY ENHANCED CENTERLINE PAVEMENT MARKING PER DETAIL 5, SHEET C11.2

CONSTRUCTION NOTES (CONTINUED)

4. REFER TO DETAIL 1, SHEET C11.3 FOR RUNWAY/TAXIWAY INTERSECTION INFORMATION
5. APPLY PERMANENT 36" SOLID WHITE RUNWAY CENTERLINE PAVEMENT MARKING PER DETAIL 6, SHEET C11.2
6. APPLY PERMANENT 36" SOLID WHITE RUNWAY EDGE LINE PAVEMENT MARKING PER DETAIL 1, SHEET C11.2
7. APPLY PERMANENT SOLID WHITE AIMING POINT MARKING PER DETAIL 4, SHEET C11.7
8. APPLY PERMANENT SOLID WHITE TOUCHDOWN ZONE MARKING PER DETAIL 4, SHEET C11.7
9. APPLY PERMANENT SOLID WHITE RUNWAY DESIGNATION MARKING PER DETAIL 4, SHEET C11.7
10. APPLY PERMANENT SOLID WHITE RUNWAY THRESHOLD MARKINGS PER DETAIL 4, SHEET C11.7
11. OBLITERATE EXISTING PAVEMENT MARKING
12. MATCH EXISTING MARKING

GENERAL NOTES

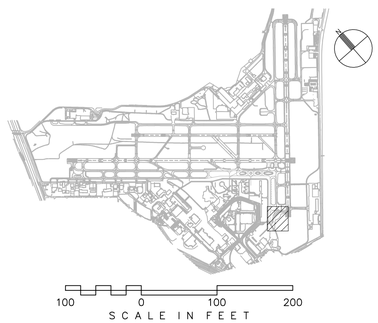
1. PAVEMENT MARKING DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL AVIATION ADMINISTRATION'S ADVISORY CIRCULAR AC-150/5340. IF A CONFLICT OCCURS BETWEEN THESE PLANS AND THE ADVISORY CIRCULAR, THE ADVISORY CIRCULAR SHALL TAKE PRECEDENCE.
2. THE CONTRACTOR SHALL REMOVE THE DESIGNATED PAVEMENT MARKINGS PRIOR TO THE APPLICATION OF TEMPORARY MARKINGS.
3. CONTRACTOR TO SURVEY EXISTING PAVEMENT MARKINGS SHOWN OUTSIDE OF PAVING LIMITS AND TO REINSTALL AT THOSE LOCATIONS UNLESS SPECIFIED OTHERWISE.
4. PROVIDE TEMPORARY APPLICATION OF ALL NEW PAVEMENT MARKINGS AS PER SPECIFICATIONS.
5. ALL TEMPORARY MARKINGS. LOCATED ON PCC, SHALL HAVE A SIX-INCH (6") WIDE BLACK BORDER.
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 AND SAT OPERATIONS.
7. SURFACES THAT ARE OBSTRUCTED DUE TO DEBRIS OR FLAKING PAINT SHALL BE THOROUGHLY CLEANED AND SWEPT BEFORE APPLYING NEW MARKINGS.

GENERAL NOTES (CONTINUED)

8. ENGINEER TO REVIEW AND APPROVE PAVEMENT MARKING LAYOUT BEFORE MARKING IS PERFORMED.
9. REFER TO SHEET C1.9 FOR HORIZONTAL AND VERTICAL CONTROL.
10. REFER TO SHEET C11.2 AND C11.3 FOR FOR PAVEMENT MARKING DETAILS.
11. ALL TEMPORARY MARKINGS SHALL RECEIVE A 6" BLACK BORDER (TEMPORARY APPLICATION).

ALTERNATE 1 - PHASE 6 TEMPORARY PAVEMENT MARKING NOTES:

1. UPON COMPLETION OF THIS PHASE, ALL PAVEMENT MARKINGS ON NEW PAVEMENT WILL BE PERMANENT. SEE PAVEMENT MARKING SHEETS FOR DETAILS.
2. TEMPORARY APPLICATIONS WILL BE MADE FROM THE LIMITS OF PHASE 6 TO THE EXISTING APRON CENTERLINE.
3. REFER TO ELECTRICAL SHEETS FOR ALL TEMPORARY LIGHTING ASSOCIATED WITH THIS PHASE.



CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166

TEXAS REGISTERED FIRM, NO. 928

TERMINAL AREA TAXIWAY IMPROVEMENTS - (PACKAGE 3)

MICHAEL A. NORBY 87178 REGISTERED PROFESSIONAL ENGINEER 05/18/15

MARK	DATE	DESCRIPTION

ISSUE:

PROJECT NO:	33-00193
FILE NAME:	_33-00193-R1CO-415-C01
DRAWN BY:	CAD
CHECKED BY:	MAN
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SHEET TITLE:

PHASE 6 - TEMPORARY MARKINGS - ALTERNATE 1

C2.24

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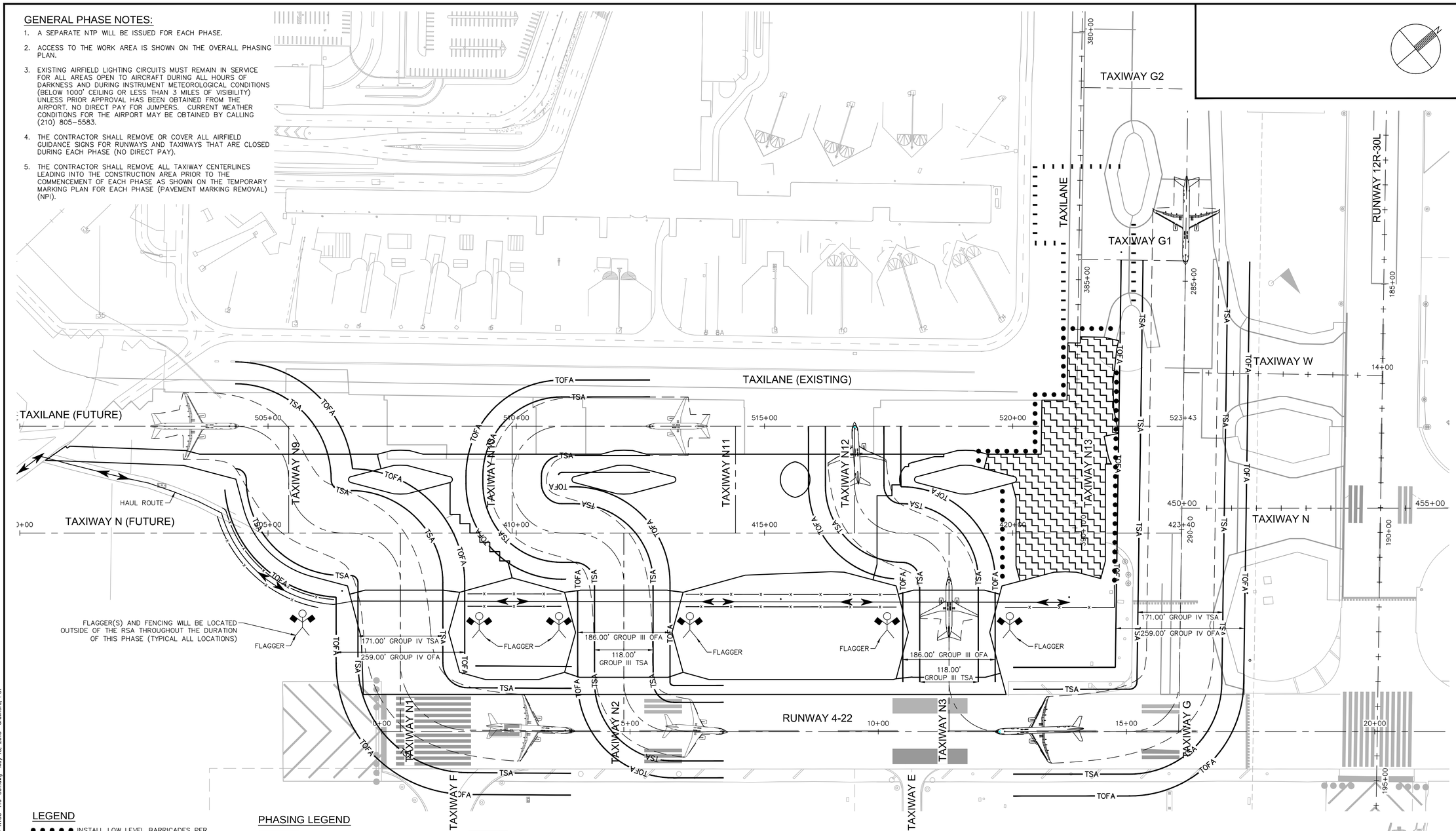
GENERAL PHASE NOTES:

1. A SEPARATE NTP WILL BE ISSUED FOR EACH PHASE.
2. ACCESS TO THE WORK AREA IS SHOWN ON THE OVERALL PHASING PLAN.
3. EXISTING AIRFIELD LIGHTING CIRCUITS MUST REMAIN IN SERVICE FOR ALL AREAS OPEN TO AIRCRAFT DURING ALL HOURS OF DARKNESS AND DURING INSTRUMENT METEOROLOGICAL CONDITIONS (BELOW 1000' CEILING OR LESS THAN 3 MILES OF VISIBILITY) UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE AIRPORT. NO DIRECT PAY FOR JUMPERS. CURRENT WEATHER CONDITIONS FOR THE AIRPORT MAY BE OBTAINED BY CALLING (210) 805-5583.
4. THE CONTRACTOR SHALL REMOVE OR COVER ALL AIRFIELD GUIDANCE SIGNS FOR RUNWAYS AND TAXIWAYS THAT ARE CLOSED DURING EACH PHASE (NO DIRECT PAY).
5. THE CONTRACTOR SHALL REMOVE ALL TAXIWAY CENTERLINES LEADING INTO THE CONSTRUCTION AREA PRIOR TO THE COMMENCEMENT OF EACH PHASE AS SHOWN ON THE TEMPORARY MARKING PLAN FOR EACH PHASE (PAVEMENT MARKING REMOVAL) (NPI).



LEGEND

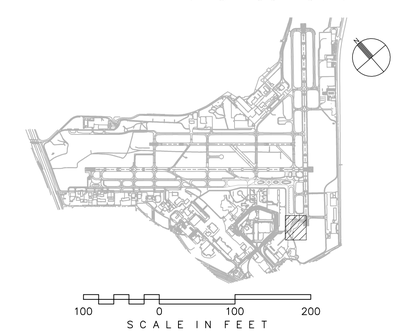
- ● ● ● ● ● INSTALL LOW LEVEL BARRICADES PER DETAIL 2, SHEET C2.22
- ▲▲▲▲▲ INSTALL LINKED LOW LEVEL BARRICADES PER DETAIL 3, SHEET C2.22
- — — — AIRCRAFT WINGTIP
- —TSA— TAXIWAY SAFETY AREA
- —TOFA— TAXIWAY OBJECT FREE AREA
- —x——x— INSTALL ORANGE SAFETY FENCE PER DETAIL 4 SHEET C2.5
- HAUL ROUTE
- FLAGGER (TO BE SUPPLIED BY CONTRACTOR)
- PORTABLE LIGHTED RUNWAY CLOSURE MARKER PROVIDED BY THE CONTRACTOR

PHASING LEGEND

- PACKAGE 2 – BASE BID B (50 DAYS)
- PACKAGE 2 – BASE BID D (50 DAYS) (03/11/16 START DATE)
- PACKAGE 2 – ALTERNATE 2C (40 DAYS)
- PACKAGE 2 – ALTERNATE 2B (55 DAYS)
- PACKAGE 2 – ALTERNATE 2A (45 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 1 (55 DAYS)(03/11/16 START DATE)
- PACKAGE 3 – ALTERNATE 1 PHASE 2 (45 DAYS)(ALL NIGHTWORK)
- PACKAGE 3 – ALTERNATE 1 PHASE 3A (50 DAYS), PHASE 3B (60 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 4 (95 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 5 (125 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 6 (70 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 7 (85 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 8 (55 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 9 (50 DAYS)

ALTERNATE 1 PHASE 7 NOTES:

1. ALTERNATE 1 PHASE 7 CAN BEGIN WITH THE COMPLETION AND ACCEPTANCE OF PHASE 6.
2. ALTERNATE 1 PHASE 7 INCLUDES THE RECONSTRUCTION OF TAXIWAY N AND THE INNER TAXILANE..
3. FENCING AND BARRICADES MUST BE PLACED AS SHOWN AND OUT OF THE INDIVIDUAL RUNWAY SAFETY AREA (RSA) AND TAXIWAY OBJECT FREE AREA (TOFA) AS SHOWN.
4. ALL TRAFFIC BETWEEN CONNECTING TAXIWAYS MUST REMAIN CLEAR OF THE RUNWAY SAFETY AREA (RSA) AND THE TAXIWAY OBJECT FREE AREA (TOFA).
5. ANY WORK TO BE COMPLETED WITHIN THE RUNWAY SAFETY AREA (RSA), TAXIWAY OBJECT FREE AREA (TOFA) OR A TAXIWAY SAFETY AREA (TSA) WILL REQUIRE A TEMPORARY CLOSURE UNTIL THE WORK WITHIN THAT AREA IS COMPLETED.



CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166
TEXAS REGISTERED FIRM, NO. 928

TERMINAL AREA TAXIWAY IMPROVEMENTS - (PACKAGE 3)

MICHAEL A. NORBY 87178 REGISTERED PROFESSIONAL ENGINEER
05/18/15

MARK	DATE	DESCRIPTION

ISSUE:

PROJECT NO:	33-00193
FILE NAME:	_33-00193-R1CO-416-C01
DRAWN BY:	CAD
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SHEET TITLE:

ALTERNATE 1 - PHASE 7 PLAN

C2.25

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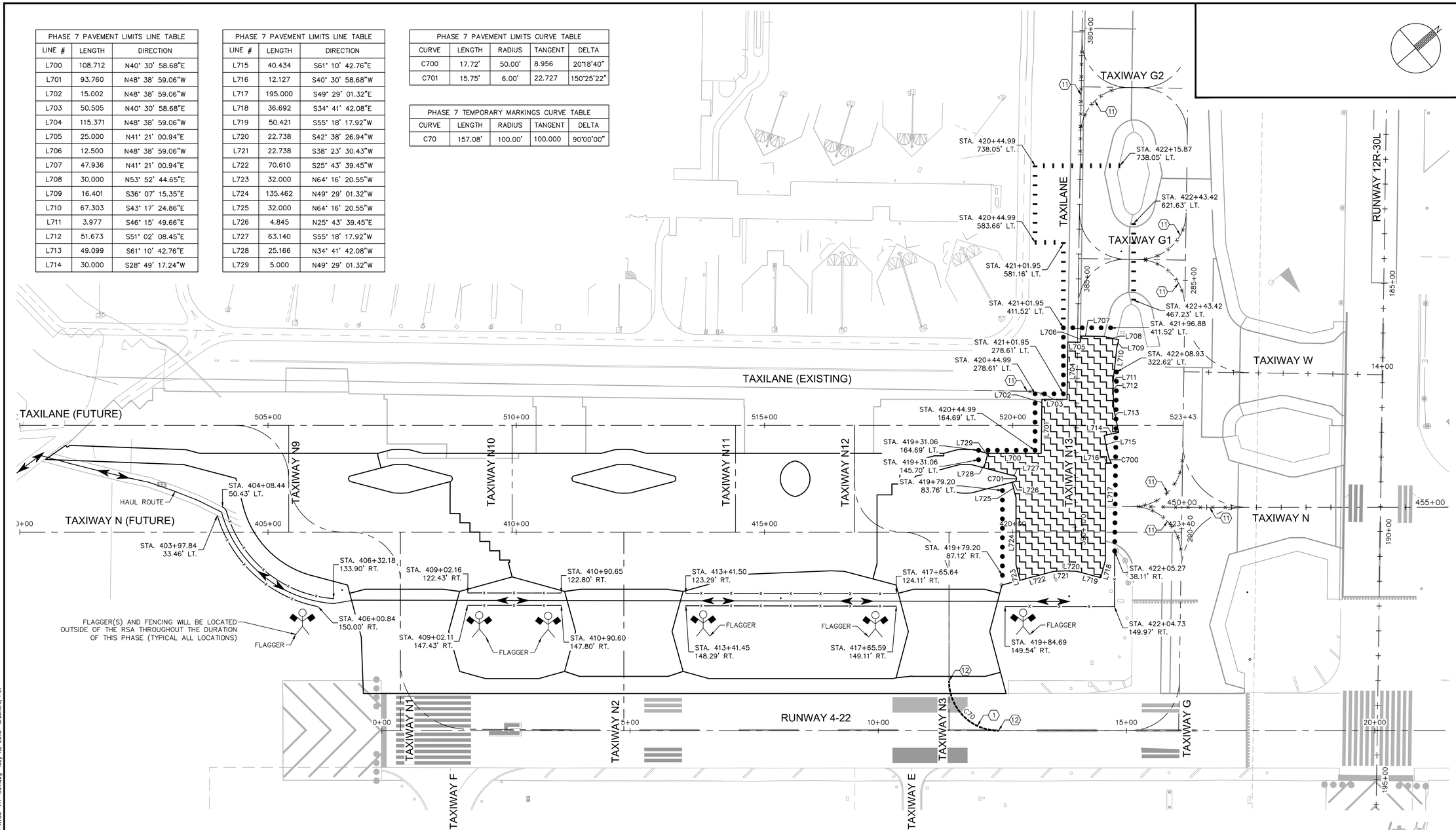
PHASE 7 PAVEMENT LIMITS LINE TABLE		
LINE #	LENGTH	DIRECTION
L700	108.712	N40° 30' 58.68"E
L701	93.760	N48° 38' 59.06"W
L702	15.002	N48° 38' 59.06"W
L703	50.505	N40° 30' 58.68"E
L704	115.371	N48° 38' 59.06"W
L705	25.000	N41° 21' 00.94"E
L706	12.500	N48° 38' 59.06"W
L707	47.936	N41° 21' 00.94"E
L708	30.000	N53° 52' 44.65"E
L709	16.401	S36° 07' 15.35"E
L710	67.303	S43° 17' 24.86"E
L711	3.977	S46° 15' 49.66"E
L712	51.673	S51° 02' 08.45"E
L713	49.099	S61° 10' 42.76"E
L714	30.000	S28° 49' 17.24"W

PHASE 7 PAVEMENT LIMITS LINE TABLE		
LINE #	LENGTH	DIRECTION
L715	40.434	S61° 10' 42.76"E
L716	12.127	S40° 30' 58.68"W
L717	195.000	S49° 29' 01.32"E
L718	36.692	S34° 41' 42.08"E
L719	50.421	S55° 18' 17.92"W
L720	22.738	S42° 38' 26.94"W
L721	22.738	S38° 23' 30.43"W
L722	70.610	S25° 43' 39.45"W
L723	32.000	N64° 16' 20.55"W
L724	135.462	N49° 29' 01.32"W
L725	32.000	N64° 16' 20.55"W
L726	4.845	N25° 43' 39.45"E
L727	63.140	S55° 18' 17.92"W
L728	25.166	N34° 41' 42.08"W
L729	5.000	N49° 29' 01.32"W

PHASE 7 PAVEMENT LIMITS CURVE TABLE				
CURVE	LENGTH	RADIUS	TANGENT	DELTA
C700	17.72'	50.00'	8.956	20°18'40"
C701	15.75'	6.00'	22.727	150°25'22"

PHASE 7 TEMPORARY MARKINGS CURVE TABLE				
CURVE	LENGTH	RADIUS	TANGENT	DELTA
C70	157.08'	100.00'	100.000	90°00'00"



LEGEND

- ● ● ● ● ● INSTALL LOW LEVEL BARRICADES PER DETAIL 2, SHEET C2.5
- ▲▲▲▲▲ INSTALL LINKED LOW LEVEL BARRICADES PER DETAIL 3, SHEET C2.5
- x x x x OBLITERATE EXISTING PAVEMENT MARKING
- INSTALL TEMPORARY PAVEMENT MARKING
- APPLY TEMPORARY TAXIWAY CLOSURE MARKING PER DETAIL 4, SHEET C11.3

GENERAL NOTES

1. APPLY TEMPORARY SIX INCH (6") WIDE SOLID YELLOW TAXIWAY CENTERLINE PAVEMENT MARKING PER DETAIL 2, SHEET C11.2
2. APPLY TEMPORARY DOUBLE SIX INCH (6") WIDE SOLID YELLOW TAXIWAY EDGE PAVEMENT MARKING PER DETAIL 3, C11.2
3. APPLY TEMPORARY ENHANCED CENTERLINE PAVEMENT MARKING PER DETAIL 5, SHEET C11.2

CONSTRUCTION NOTES (CONTINUED)

4. REFER TO DETAIL 1, SHEET C11.3 FOR RUNWAY/TAXIWAY INTERSECTION INFORMATION
5. APPLY PERMANENT 36" SOLID WHITE RUNWAY CENTERLINE PAVEMENT MARKING PER DETAIL 6, SHEET C11.2
6. APPLY PERMANENT 36" SOLID WHITE RUNWAY EDGE LINE PAVEMENT MARKING PER DETAIL 1, SHEET C11.2
7. APPLY PERMANENT SOLID WHITE AIMING POINT MARKING PER DETAIL 4, SHEET C11.7
8. APPLY PERMANENT SOLID WHITE TOUCHDOWN ZONE MARKING PER DETAIL 4, SHEET C11.7
9. APPLY PERMANENT SOLID WHITE RUNWAY DESIGNATION MARKING PER DETAIL 4, SHEET C11.7
10. APPLY PERMANENT SOLID WHITE RUNWAY THRESHOLD MARKINGS PER DETAIL 4, SHEET C11.7
11. OBLITERATE EXISTING PAVEMENT MARKING
12. MATCH EXISTING MARKING

GENERAL NOTES

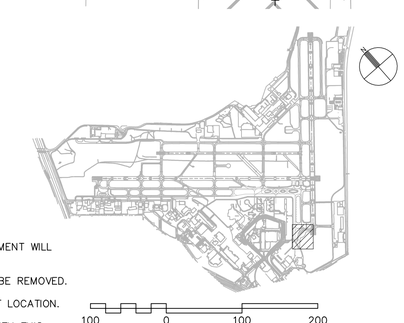
1. PAVEMENT MARKING DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL AVIATION ADMINISTRATION'S ADVISORY CIRCULAR AC-150/5340. IF A CONFLICT OCCURS BETWEEN THESE PLANS AND THE ADVISORY CIRCULAR, THE ADVISORY CIRCULAR SHALL TAKE PRECEDENCE.
2. THE CONTRACTOR SHALL REMOVE THE DESIGNATED PAVEMENT MARKINGS PRIOR TO THE APPLICATION OF TEMPORARY MARKINGS.
3. CONTRACTOR TO SURVEY EXISTING PAVEMENT MARKINGS SHOWN OUTSIDE OF PAVING LIMITS AND TO REINSTALL AT THOSE LOCATIONS UNLESS SPECIFIED OTHERWISE.
4. PROVIDE TEMPORARY APPLICATION OF ALL NEW PAVEMENT MARKINGS AS PER SPECIFICATIONS.
5. ALL TEMPORARY MARKINGS. LOCATED ON PCC, SHALL HAVE A SIX-INCH (6") WIDE BLACK BORDER.
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 AND SAT OPERATIONS.
7. SURFACES THAT ARE OBSTRUCTED DUE TO DEBRIS OR FLAKING PAINT SHALL BE THOROUGHLY CLEANED AND SWEPT BEFORE APPLYING NEW MARKINGS.

GENERAL NOTES (CONTINUED)

8. ENGINEER TO REVIEW AND APPROVE PAVEMENT MARKING LAYOUT BEFORE MARKING IS PERFORMED.
9. REFER TO SHEET C1.9 FOR HORIZONTAL AND VERTICAL CONTROL.
10. REFER TO SHEET C11.2 AND C11.3 FOR FOR PAVEMENT MARKING DETAILS.
11. ALL TEMPORARY MARKINGS SHALL RECEIVE A 6" BLACK BORDER (TEMPORARY APPLICATION).

ALTERNATE 1 - PHASE 7 TEMPORARY PAVEMENT MARKING NOTES:

1. UPON COMPLETION OF THIS PHASE, ALL PAVEMENT MARKINGS ON NEW PAVEMENT WILL BE PERMANENT. SEE PAVEMENT MARKING SHEETS FOR DETAILS.
2. ALL TEMPORARY MARKINGS AND THE EXISTING TAXILANE CENTERLINE SHALL BE REMOVED.
3. NEW (RELOCATED) TAXILANE CENTERLINE WILL BE MARKED IN ITS PERMANENT LOCATION.
4. REFER TO ELECTRICAL SHEETS FOR ALL TEMPORARY LIGHTING ASSOCIATED WITH THIS PHASE.



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SCALE IN FEET

CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166

TEXAS REGISTERED FIRM, NO. 928

TERMINAL AREA TAXIWAY IMPROVEMENTS - (PACKAGE 3)

MICHAEL A. NORBY 87178 REGISTERED PROFESSIONAL ENGINEER
05/18/15

MARK	DATE	DESCRIPTION

ISSUE:	-
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FILE NAME:	_33-00193-R1CO-417-C01
DRAWN BY:	CAD
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SHEET TITLE:

PHASE 7 - TEMPORARY MARKINGS - ALTERNATE 1

C2.26

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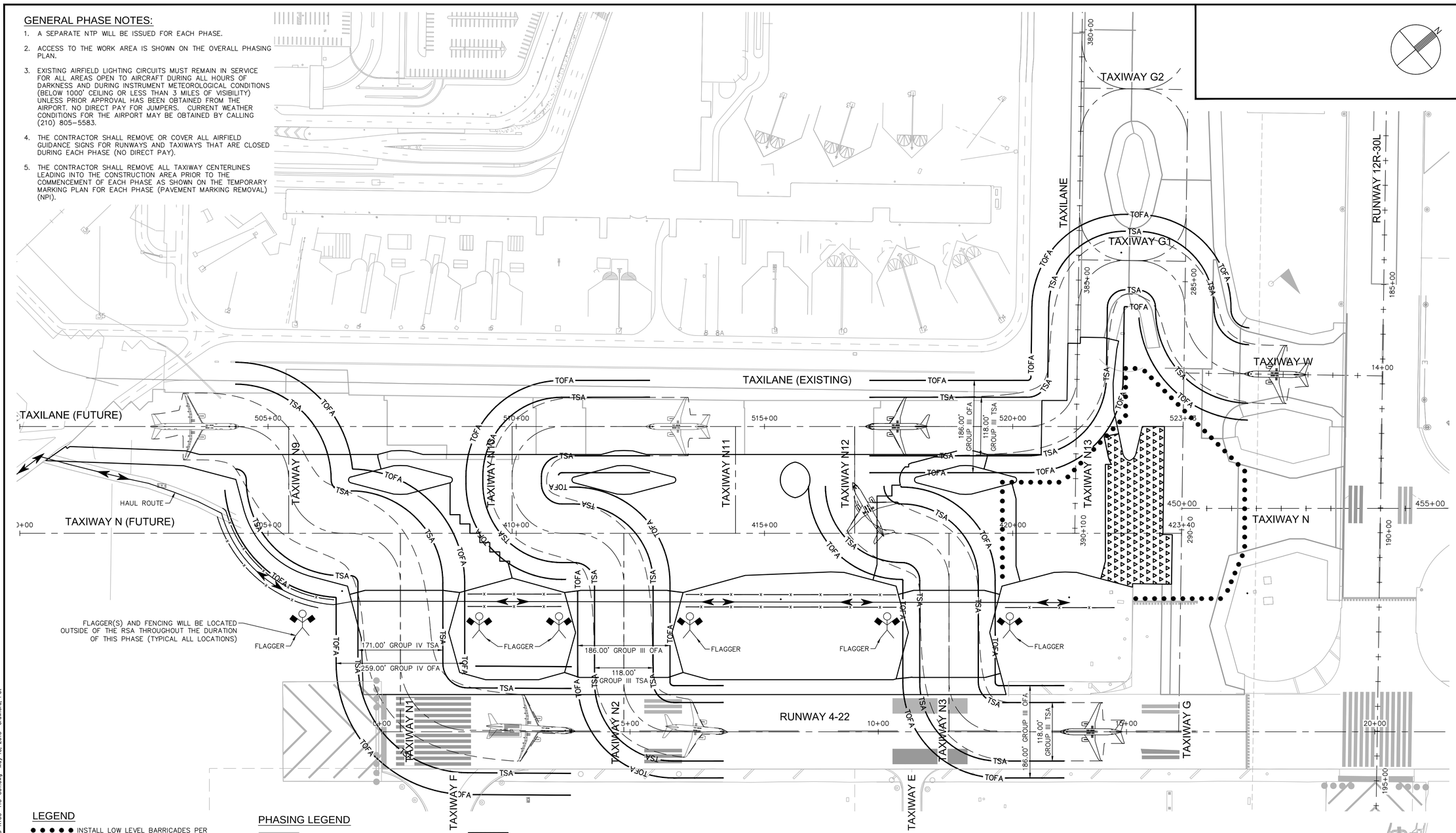
GENERAL PHASE NOTES:

1. A SEPARATE NTP WILL BE ISSUED FOR EACH PHASE.
2. ACCESS TO THE WORK AREA IS SHOWN ON THE OVERALL PHASING PLAN.
3. EXISTING AIRFIELD LIGHTING CIRCUITS MUST REMAIN IN SERVICE FOR ALL AREAS OPEN TO AIRCRAFT DURING ALL HOURS OF DARKNESS AND DURING INSTRUMENT METEOROLOGICAL CONDITIONS (BELOW 1000' CEILING OR LESS THAN 3 MILES OF VISIBILITY) UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE AIRPORT. NO DIRECT PAY FOR JUMPERS. CURRENT WEATHER CONDITIONS FOR THE AIRPORT MAY BE OBTAINED BY CALLING (210) 805-5583.
4. THE CONTRACTOR SHALL REMOVE OR COVER ALL AIRFIELD GUIDANCE SIGNS FOR RUNWAYS AND TAXIWAYS THAT ARE CLOSED DURING EACH PHASE (NO DIRECT PAY).
5. THE CONTRACTOR SHALL REMOVE ALL TAXIWAY CENTERLINES LEADING INTO THE CONSTRUCTION AREA PRIOR TO THE COMMENCEMENT OF EACH PHASE AS SHOWN ON THE TEMPORARY MARKING PLAN FOR EACH PHASE (PAVEMENT MARKING REMOVAL) (NPI).



LEGEND

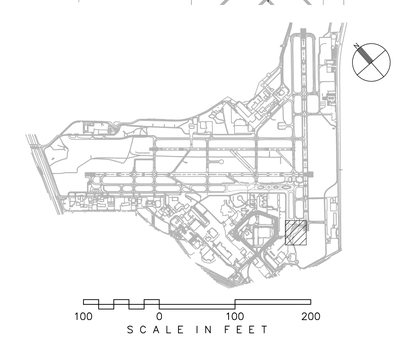
- ● ● ● ● ● INSTALL LOW LEVEL BARRICADES PER DETAIL 2, SHEET C2.22
- ▲▲▲▲▲ INSTALL LINKED LOW LEVEL BARRICADES PER DETAIL 3, SHEET C2.22
- — —— — AIRCRAFT WINGTIP
- —TSA— TAXIWAY SAFETY AREA
- —TOFA— TAXIWAY OBJECT FREE AREA
- —x——x— INSTALL ORANGE SAFETY FENCE PER DETAIL 4 SHEET C2.5
- HAUL ROUTE
- FLAGGER (TO BE SUPPLIED BY CONTRACTOR)
- PORTABLE LIGHTED RUNWAY CLOSURE MARKER PROVIDED BY THE CONTRACTOR

PHASING LEGEND

- PACKAGE 2 – BASE BID B (50 DAYS)
- PACKAGE 2 – BASE BID D (50 DAYS) (03/11/16 START DATE)
- PACKAGE 2 – ALTERNATE 2C (40 DAYS)
- PACKAGE 2 – ALTERNATE 2B (55 DAYS)
- PACKAGE 2 – ALTERNATE 2A (45 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 1 (55 DAYS)(03/11/16 START DATE)
- PACKAGE 3 – ALTERNATE 1 PHASE 2 (45 DAYS)(ALL NIGHTWORK)
- PACKAGE 3 – ALTERNATE 1 PHASE 3A (50 DAYS), PHASE 3B (60 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 4 (95 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 5 (125 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 6 (70 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 7 (85 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 8 (55 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 9 (50 DAYS)

ALTERNATE 1 PHASE 8 NOTES:

1. ALTERNATE 1 PHASE 8 CAN BEGIN WITH THE COMPLETION AND ACCEPTANCE OF PHASE 7.
2. ALTERNATE 1 PHASE 8 INCLUDES THE RECONSTRUCTION OF A PORTION OF TAXIWAY N AND THE NEW TAXILANE.
3. FENCING AND BARRICADES MUST BE PLACED AS SHOWN AND OUT OF THE INDIVIDUAL RUNWAY SAFETY AREA (RSA) AND TAXIWAY OBJECT FREE AREA (TOFA) AS SHOWN.
4. ALL VEHICLE TRAFFIC BETWEEN THE CONNECTING TAXIWAYS MUST REMAIN CLEAR OF THE RUNWAY SAFETY AREA (RSA) AND TAXIWAY OBJECT FREE AREA (TOFA).
5. ANY WORK TO BE COMPLETED WITHIN THE RUNWAY SAFETY AREA (RSA), TAXIWAY OBJECT FREE AREA (TOFA), OR A TAXIWAY SAFETY AREA (TSA) WILL REQUIRE A TEMPORARY CLOSURE UNTIL THE WORK WITHIN THAT AREA IS COMPLETED.



CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166

TEXAS REGISTERED FIRM, NO. 928

TERMINAL AREA TAXIWAY IMPROVEMENTS - (PACKAGE 3)

MICHAEL A. NORBY
87178
REGISTERED PROFESSIONAL ENGINEER
05/18/15

MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO:	33-00193
FILE NAME:	_33-00193-R1CO-418-C01
DRAWN BY:	CAD
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ALTERNATE 1 - PHASE 8 PLAN

C2.27

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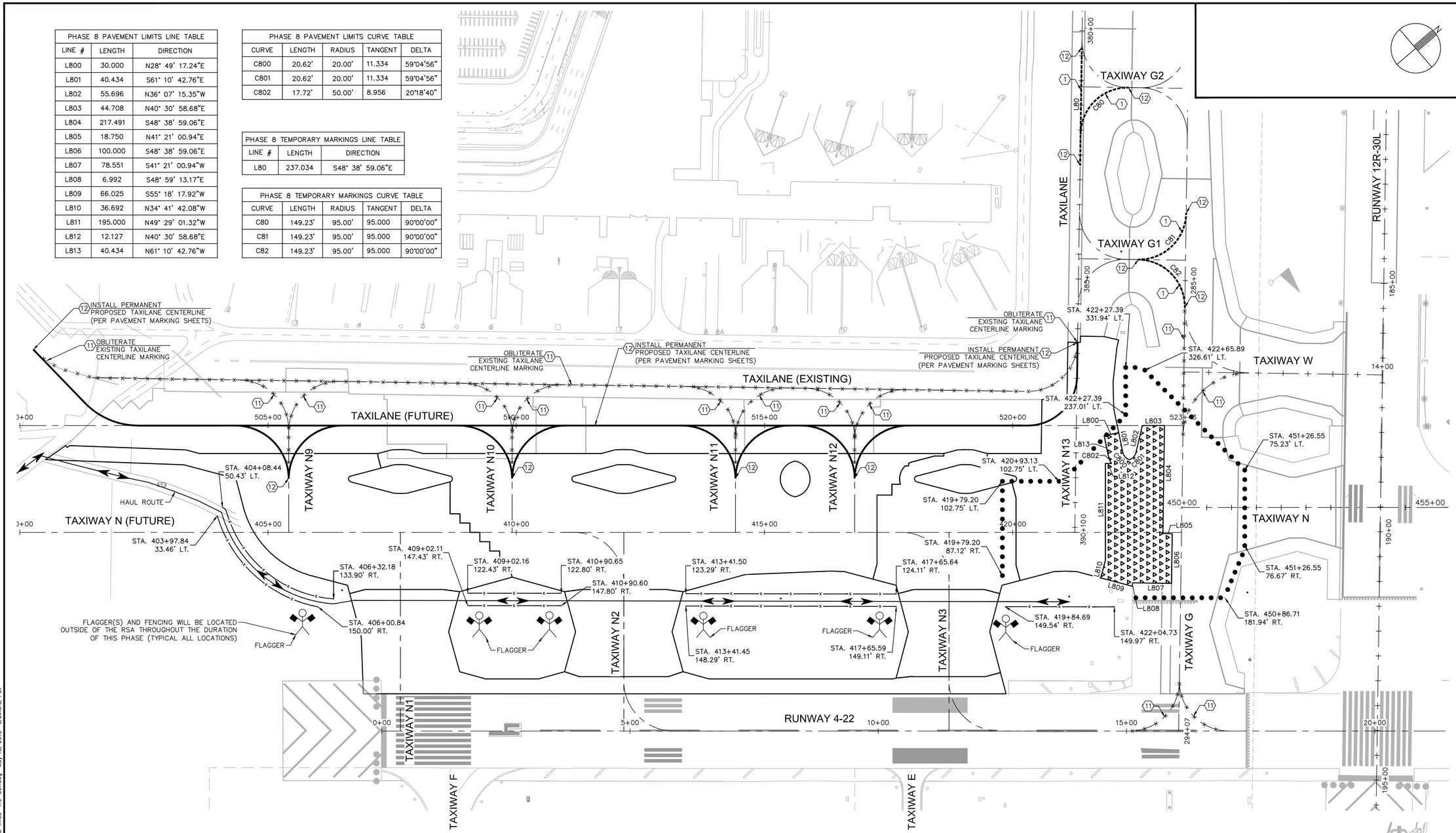
PHASE 8 PAVEMENT LIMITS LINE TABLE		
LINE #	LENGTH	DIRECTION
L800	30.000	N28° 49' 17.24"E
L801	40.434	S61° 10' 42.76"E
L802	55.696	N36° 07' 15.35"W
L803	44.708	N40° 30' 58.68"E
L804	217.491	S48° 38' 59.06"E
L805	18.750	N41° 21' 00.94"E
L806	100.000	S48° 38' 59.06"E
L807	78.551	S41° 21' 00.94"W
L808	6.992	S48° 59' 13.17"E
L809	66.025	S55° 18' 17.92"W
L810	36.692	N34° 41' 42.08"W
L811	195.000	N49° 29' 01.32"W
L812	12.127	N40° 30' 58.68"E
L813	40.434	N61° 10' 42.76"W

PHASE 8 PAVEMENT LIMITS CURVE TABLE				
CURVE	LENGTH	RADIUS	TANGENT	DELTA
C800	20.62'	20.00'	11.334	59°04'56"
C801	20.62'	20.00'	11.334	59°04'56"
C802	17.72'	50.00'	8.956	20°18'40"

PHASE 8 TEMPORARY MARKINGS LINE TABLE		
LINE #	LENGTH	DIRECTION
L80	237.034	S48° 38' 59.06"E

PHASE 8 TEMPORARY MARKINGS CURVE TABLE				
CURVE	LENGTH	RADIUS	TANGENT	DELTA
C80	149.23'	95.00'	95.000	90°00'00"
C81	149.23'	95.00'	95.000	90°00'00"
C82	149.23'	95.00'	95.000	90°00'00"



LEGEND

- ● ● ● ● ● INSTALL LOW LEVEL BARRICADES PER DETAIL 2, SHEET C2.5
- ▲▲▲▲▲ INSTALL LINKED LOW LEVEL BARRICADES PER DETAIL 3, SHEET C2.5
- x x x x OBLITERATE EXISTING PAVEMENT MARKING
- INSTALL TEMPORARY PAVEMENT MARKING
- APPLY TEMPORARY TAXIWAY CLOSURE MARKING PER DETAIL 4, SHEET C11.3

GENERAL NOTES

1. APPLY TEMPORARY SIX INCH (6") WIDE SOLID YELLOW TAXIWAY CENTERLINE PAVEMENT MARKING PER DETAIL 2, SHEET C11.2
2. APPLY TEMPORARY DOUBLE SIX INCH (6") WIDE SOLID YELLOW TAXIWAY EDGE PAVEMENT MARKING PER DETAIL 3, C11.2
3. APPLY TEMPORARY ENHANCED CENTERLINE PAVEMENT MARKING PER DETAIL 5, SHEET C11.2

CONSTRUCTION NOTES (CONTINUED)

4. REFER TO DETAIL 1, SHEET C11.3 FOR RUNWAY/TAXIWAY INTERSECTION INFORMATION
5. APPLY PERMANENT 36" SOLID WHITE RUNWAY CENTERLINE PAVEMENT MARKING PER DETAIL 6, SHEET C11.2
6. APPLY PERMANENT 36" SOLID WHITE RUNWAY EDGE LINE PAVEMENT MARKING PER DETAIL 1, SHEET C11.2
7. APPLY PERMANENT SOLID WHITE AIMING POINT MARKING PER DETAIL 4, SHEET C11.7
8. APPLY PERMANENT SOLID WHITE TOUCHDOWN ZONE MARKING PER DETAIL 4, SHEET C11.7
9. APPLY PERMANENT SOLID WHITE RUNWAY DESIGNATION MARKING PER DETAIL 4, SHEET C11.7
10. APPLY PERMANENT SOLID WHITE RUNWAY THRESHOLD MARKINGS PER DETAIL 4, SHEET C11.7
11. OBLITERATE EXISTING PAVEMENT MARKING
12. MATCH EXISTING MARKING

GENERAL NOTES

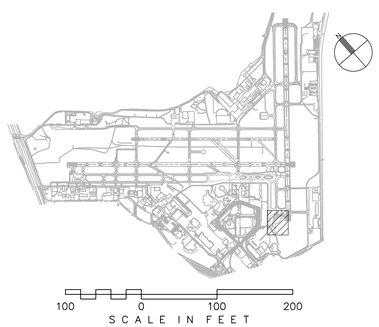
1. PAVEMENT MARKING DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL AVIATION ADMINISTRATION'S ADVISORY CIRCULAR AC-150/5340. IF A CONFLICT OCCURS BETWEEN THESE PLANS AND THE ADVISORY CIRCULAR, THE ADVISORY CIRCULAR SHALL TAKE PRECEDENCE.
2. THE CONTRACTOR SHALL REMOVE THE DESIGNATED PAVEMENT MARKINGS PRIOR TO THE APPLICATION OF TEMPORARY MARKINGS.
3. CONTRACTOR TO SURVEY EXISTING PAVEMENT MARKINGS SHOWN OUTSIDE OF PAVING LIMITS AND TO REINSTALL AT THOSE LOCATIONS UNLESS SPECIFIED OTHERWISE.
4. PROVIDE TEMPORARY APPLICATION OF ALL NEW PAVEMENT MARKINGS AS PER SPECIFICATIONS.
5. ALL TEMPORARY MARKINGS. LOCATED ON PCC, SHALL HAVE A SIX-INCH (6") WIDE BLACK BORDER.
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 AND SAT OPERATIONS.
7. SURFACES THAT ARE OBSTRUCTED DUE TO DEBRIS OR FLAKING PAINT SHALL BE THOROUGHLY CLEANED AND SWEPT BEFORE APPLYING NEW MARKINGS.

GENERAL NOTES (CONTINUED)

8. ENGINEER TO REVIEW AND APPROVE PAVEMENT MARKING LAYOUT BEFORE MARKING IS PERFORMED.
9. REFER TO SHEET C1.9 FOR HORIZONTAL AND VERTICAL CONTROL.
10. REFER TO SHEET C11.2 AND C11.3 FOR FOR PAVEMENT MARKING DETAILS.
11. ALL TEMPORARY MARKINGS SHALL RECEIVE A 6" BLACK BORDER (TEMPORARY APPLICATION).

ALTERNATE 1 - PHASE 8 TEMPORARY PAVEMENT MARKING NOTES:

1. UPON COMPLETION OF THIS PHASE, ALL PAVEMENT MARKINGS ON NEW PAVEMENT WILL BE PERMANENT. SEE PAVEMENT MARKING SHEETS FOR DETAILS.
2. ALL TEMPORARY MARKINGS SHALL BE REMOVED.
3. REFER TO ELECTRICAL SHEETS FOR ALL TEMPORARY LIGHTING ASSOCIATED WITH THIS PHASE.



CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166
TEXAS REGISTERED FIRM, NO. 928

TERMINAL AREA TAXIWAY IMPROVEMENTS - (PACKAGE 3)

MICHAEL A. NORBY 87178 REGISTERED PROFESSIONAL ENGINEER
05/18/15

MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO:	33-00193
FILE NAME:	_33-00193-R1CO-419-C01
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CHECKED BY:	MAN
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SHEET TITLE:

PHASE 8 - TEMPORARY MARKINGS - ALTERNATE 1

C2.28

SHEET NO. 80 OF 140

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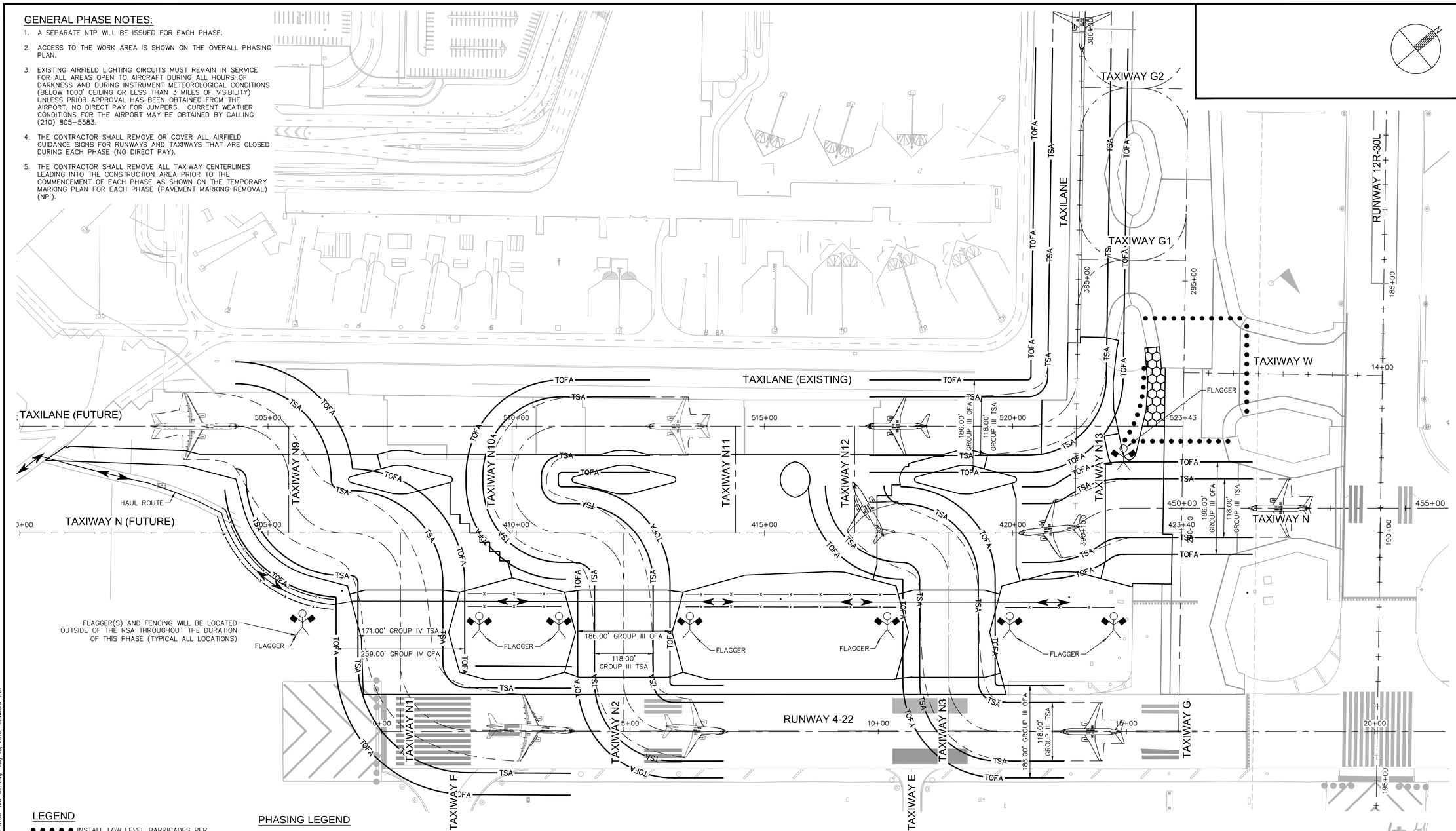
GENERAL PHASE NOTES:

1. A SEPARATE NTP WILL BE ISSUED FOR EACH PHASE.
2. ACCESS TO THE WORK AREA IS SHOWN ON THE OVERALL PHASING PLAN.
3. EXISTING AIRFIELD LIGHTING CIRCUITS MUST REMAIN IN SERVICE FOR ALL AREAS OPEN TO AIRCRAFT DURING ALL HOURS OF DARKNESS AND DURING INSTRUMENT METEOROLOGICAL CONDITIONS (BELOW 1000' CEILING OR LESS THAN 3 MILES OF VISIBILITY) UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE AIRPORT. NO DIRECT PAY FOR JUMPERS. CURRENT WEATHER CONDITIONS FOR THE AIRPORT MAY BE OBTAINED BY CALLING (210) 805-5583.
4. THE CONTRACTOR SHALL REMOVE OR COVER ALL AIRFIELD GUIDANCE SIGNS FOR RUNWAYS AND TAXIWAYS THAT ARE CLOSED DURING EACH PHASE (NO DIRECT PAY).
5. THE CONTRACTOR SHALL REMOVE ALL TAXIWAY CENTERLINES LEADING INTO THE CONSTRUCTION AREA PRIOR TO THE COMMENCEMENT OF EACH PHASE AS SHOWN ON THE TEMPORARY MARKING PLAN FOR EACH PHASE (PAVEMENT MARKING REMOVAL) (NPI).



LEGEND

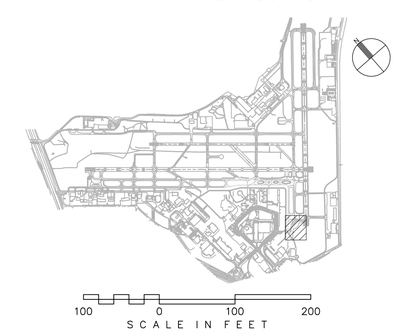
- INSTALL LOW LEVEL BARRICADES PER DETAIL 2, SHEET C2.22
- INSTALL LINKED LOW LEVEL BARRICADES PER DETAIL 3, SHEET C2.22
- AIRCRAFT WINGTIP
- TSA — TAXIWAY SAFETY AREA
- TOFA — TAXIWAY OBJECT FREE AREA
- INSTALL ORANGE SAFETY FENCE PER DETAIL 4 SHEET C2.5
- HAUL ROUTE
- FLAGGER (TO BE SUPPLIED BY CONTRACTOR)
- PORTABLE LIGHTED RUNWAY CLOSURE MARKER PROVIDED BY THE CONTRACTOR

PHASING LEGEND

- PACKAGE 2 – BASE BID B (50 DAYS)
- PACKAGE 2 – BASE BID D (50 DAYS) (03/11/16 START DATE)
- PACKAGE 2 – ALTERNATE 2C (40 DAYS)
- PACKAGE 2 – ALTERNATE 2B (55 DAYS)
- PACKAGE 2 – ALTERNATE 2A (45 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 1 (55 DAYS)(03/11/16 START DATE)
- PACKAGE 3 – ALTERNATE 1 PHASE 2 (45 DAYS)(ALL NIGHTWORK)
- PACKAGE 3 – ALTERNATE 1 PHASE 3A (50 DAYS), PHASE 3B (60 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 4 (95 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 5 (125 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 6 (70 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 7 (85 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 8 (55 DAYS)
- PACKAGE 3 – ALTERNATE 1 PHASE 9 (50 DAYS)

ALTERNATE 1 PHASE 9 NOTES:

1. ALTERNATE 1 PHASE 9 CAN BEGIN WITH THE COMPLETION AND ACCEPTANCE OF PHASE 8.
2. ALTERNATE 1 PHASE 9 INCLUDES THE REMOVAL OF PAVEMENT TO DEFINE AN OPEN ISLAND AS WELL AS PAVEMENT TO MEET FAA ADVISORY CIRCULAR GEOMETRIC REQUIREMENTS.
3. FENCING AND BARRICADES MUST BE PLACED AS SHOWN AND OUT OF THE INDIVIDUAL RUNWAY SAFETY AREA (RSA) AND TAXIWAY OBJECT FREE AREA (TOFA) AS SHOWN.
4. ALL VEHICLE TRAFFIC BETWEEN THE CONNECTING TAXIWAYS MUST REMAIN OUT OF THE RUNWAY SAFETY AREA (RSA) AND THE TAXIWAY OBJECT FREE AREA (TOFA).
5. ANY WORK TO BE COMPLETED WITHIN THE RUNWAY SAFETY AREA (RSA), TAXIWAY OBJECT FREE AREA (TOFA), OR A TAXIWAY SAFETY AREA (TSA) WILL REQUIRE A TEMPORARY CLOSURE UNTIL THE WORK WITHIN THAT AREA IS COMPLETED.



CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166
TEXAS REGISTERED FIRM, NO. 928

TERMINAL AREA TAXIWAY IMPROVEMENTS - (PACKAGE 3)

MICHAEL A. NORBY 87178 REGISTERED PROFESSIONAL ENGINEER 05/18/15

MARK	DATE	DESCRIPTION

ISSUE:

PROJECT NO:	33-00193
FILE NAME:	_33-00193-R1CO-420-C01
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SHEET TITLE:

ALTERNATE 1 - PHASE 9 PLAN

C2.29

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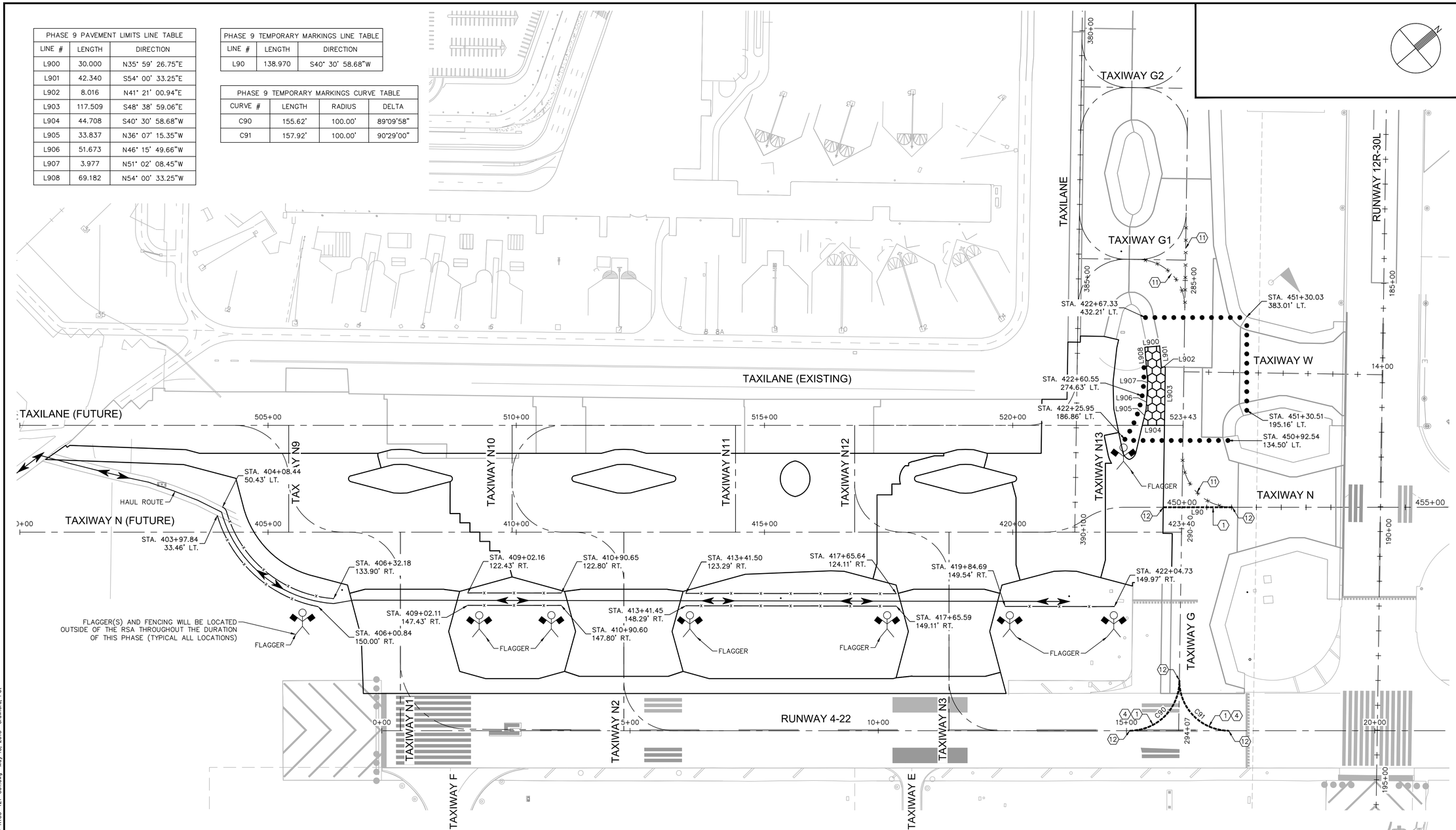
PHASE 9 PAVEMENT LIMITS LINE TABLE		
LINE #	LENGTH	DIRECTION
L900	30.000	N35° 59' 26.75"E
L901	42.340	S54° 00' 33.25"E
L902	8.016	N41° 21' 00.94"E
L903	117.509	S48° 38' 59.06"E
L904	44.708	S40° 30' 58.68"W
L905	33.837	N36° 07' 15.35"W
L906	51.673	N46° 15' 49.66"W
L907	3.977	N51° 02' 08.45"W
L908	69.182	N54° 00' 33.25"W

PHASE 9 TEMPORARY MARKINGS LINE TABLE		
LINE #	LENGTH	DIRECTION
L90	138.970	S40° 30' 58.68"W

PHASE 9 TEMPORARY MARKINGS CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C90	155.62'	100.00'	89°09'58"
C91	157.92'	100.00'	90°29'00"



LEGEND

- ● ● ● ● ● INSTALL LOW LEVEL BARRICADES PER DETAIL 2, SHEET C2.5
- ▲▲▲▲▲ INSTALL LINKED LOW LEVEL BARRICADES PER DETAIL 3, SHEET C2.5
- x x x x OBLITERATE EXISTING PAVEMENT MARKING
- INSTALL TEMPORARY PAVEMENT MARKING
- APPLY TEMPORARY TAXIWAY CLOSURE MARKING PER DETAIL 4, SHEET C11.3

GENERAL NOTES

(1) APPLY TEMPORARY SIX INCH (6") WIDE SOLID YELLOW TAXIWAY CENTERLINE PAVEMENT MARKING PER DETAIL 2, SHEET C11.2

(2) APPLY TEMPORARY DOUBLE SIX INCH (6") WIDE SOLID YELLOW TAXIWAY EDGE PAVEMENT MARKING PER DETAIL 3, C11.2

(3) APPLY TEMPORARY ENHANCED CENTERLINE PAVEMENT MARKING PER DETAIL 5, SHEET C11.2

CONSTRUCTION NOTES (CONTINUED)

(4) REFER TO DETAIL 1, SHEET C11.3 FOR RUNWAY/TAXIWAY INTERSECTION INFORMATION

(5) APPLY PERMANENT 36" SOLID WHITE RUNWAY CENTERLINE PAVEMENT MARKING PER DETAIL 6, SHEET C11.2

(6) APPLY PERMANENT 36" SOLID WHITE RUNWAY EDGE LINE PAVEMENT MARKING PER DETAIL 1, SHEET C11.2

(7) APPLY PERMANENT SOLID WHITE AIMING POINT MARKING PER DETAIL 4, SHEET C11.7

(8) APPLY PERMANENT SOLID WHITE TOUCHDOWN ZONE MARKING PER DETAIL 4, SHEET C11.7

(9) APPLY PERMANENT SOLID WHITE RUNWAY DESIGNATION MARKING PER DETAIL 4, SHEET C11.7

(10) APPLY PERMANENT SOLID WHITE RUNWAY THRESHOLD MARKINGS PER DETAIL 4, SHEET C11.7

(11) OBLITERATE EXISTING PAVEMENT MARKING

(12) MATCH EXISTING MARKING

GENERAL NOTES

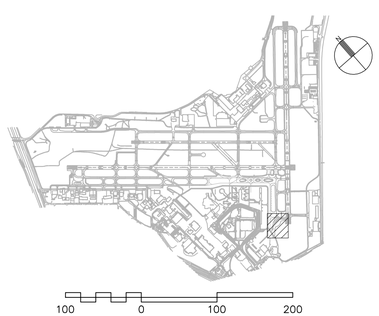
1. PAVEMENT MARKING DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL AVIATION ADMINISTRATION'S ADVISORY CIRCULAR AC-150/5340. IF A CONFLICT OCCURS BETWEEN THESE PLANS AND THE ADVISORY CIRCULAR, THE ADVISORY CIRCULAR SHALL TAKE PRECEDENCE.
2. THE CONTRACTOR SHALL REMOVE THE DESIGNATED PAVEMENT MARKINGS PRIOR TO THE APPLICATION OF TEMPORARY MARKINGS.
3. CONTRACTOR TO SURVEY EXISTING PAVEMENT MARKINGS SHOWN OUTSIDE OF PAVING LIMITS AND TO REINSTALL AT THOSE LOCATIONS UNLESS SPECIFIED OTHERWISE.
4. PROVIDE TEMPORARY APPLICATION OF ALL NEW PAVEMENT MARKINGS AS PER SPECIFICATIONS.
5. ALL TEMPORARY MARKINGS. LOCATED ON PCC, SHALL HAVE A SIX-INCH (6") WIDE BLACK BORDER.
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 AND SAT OPERATIONS.
7. SURFACES THAT ARE OBSTRUCTED DUE TO DEBRIS OR FLAKING PAINT SHALL BE THOROUGHLY CLEANED AND SWEPT BEFORE APPLYING NEW MARKINGS.

GENERAL NOTES (CONTINUED)

8. ENGINEER TO REVIEW AND APPROVE PAVEMENT MARKING LAYOUT BEFORE MARKING IS PERFORMED.
9. REFER TO SHEET C1.9 FOR HORIZONTAL AND VERTICAL CONTROL.
10. REFER TO SHEET C11.2 AND C11.3 FOR FOR PAVEMENT MARKING DETAILS.
11. ALL TEMPORARY MARKINGS SHALL RECEIVE A 6" BLACK BORDER (TEMPORARY APPLICATION).

ALTERNATE 1 - PHASE 9 TEMPORARY PAVEMENT MARKING NOTES:

1. UPON COMPLETION OF THIS PHASE, ALL PAVEMENT MARKINGS ON NEW PAVEMENT WILL BE PERMANENT. SEE PAVEMENT MARKING SHEETS FOR DETAILS.
2. ALL TEMPORARY MARKINGS SHALL BE REMOVED.
3. REFER TO ELECTRICAL SHEETS FOR ALL TEMPORARY LIGHTING ASSOCIATED WITH THIS PHASE.



CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

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601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166

TEXAS REGISTERED FIRM, NO. 928

TERMINAL AREA TAXIWAY IMPROVEMENTS - (PACKAGE 3)

MICHAEL A. NORBY 87178 REGISTERED PROFESSIONAL ENGINEER
05/18/15

MARK	DATE	DESCRIPTION

ISSUE:	-
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PHASE 9 - TEMPORARY MARKINGS - ALTERNATE 1

C2.30

SHEET NO. 82 OF 140

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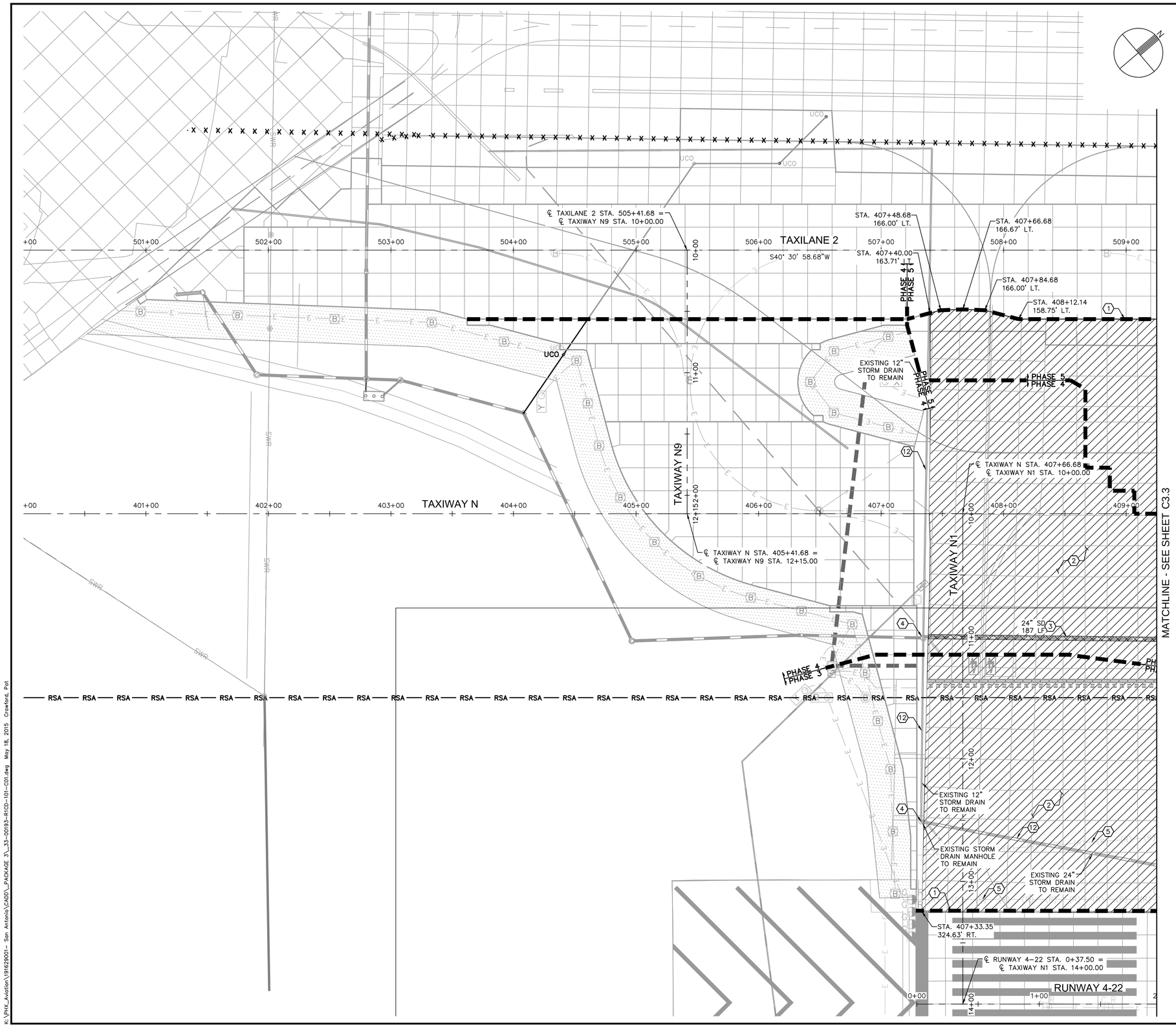


LEGEND

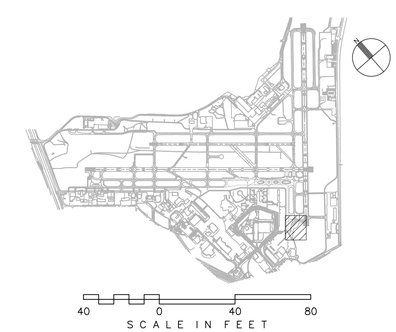
- PORTLAND CEMENT CONCRETE PAVEMENT REMOVAL
- CLEAR AND GRUB (P-101)
- FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
- 2" AC PAVEMENT REMOVAL BY MILLING
- PORTLAND CEMENT CONCRETE PAVEMENT VARIABLE MILL (MAX 2")
- STORM DRAIN REMOVAL
- PAVEMENT MARKING OBLITERATION
- PHASING LIMITS

GENERAL NOTES

1. EXISTING UTILITY INFORMATION SHOWN ON THE PLANS CONCERNING THE TYPE, SIZE, AND LOCATION WERE COMPILED BASED ON THE UTILITY RECORDS AVAILABLE TO THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OR SPECIFIED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE RESET OR RELOCATED BY THE UTILITY COMPANY CONCERNED UNLESS NOTED OTHERWISE.
2. REFER TO SHEET C1.9 FOR HORIZONTAL AND VERTICAL CONTROL.
3. REFER TO ELECTRICAL PLANS (SERIES E) FOR ELECTRICAL DEMOLITION.
4. DOUBLE SAWCUT IS REQUIRED ALONG PCC REMOVAL LIMITS TO PROTECT EXISTING PCC PAVEMENT TO REMAIN.
5. STATIONING IS BASED ON FUTURE TAXIWAY N CENTERLINE STATIONING.
6. ALTERNATE 1 INCLUDES DEMOLITION OF THOSE AREAS SHOWN PREVIOUSLY IN THE BASE BID PLANS. THE NEW PHASING LIMITS, AS SHOWN IN THE INDIVIDUAL ALTERNATE 1 PHASING SHEETS, ALTER LIMITS AND TIMING OF THE BASE BID. IF ALTERNATE 1 IS AWARDED, BASE BID PHASING WILL BE INCLUDED IN ALTERNATE 1.

CONSTRUCTION NOTES

1. SAWCUT EXISTING PCC PAVEMENT – FULL DEPTH
2. REMOVE AND DISPOSE OF EXISTING PCC PAVEMENT OFFSITE
3. REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE – LIMITS OF REMOVAL PER PLAN
4. REMOVE AND DISPOSE OF EXISTING DRAINAGE STRUCTURE
5. REFER TO ELECTRICAL PLANS (SERIES E)
6. REMOVE AND DISPOSE OF EXISTING AC PAVEMENT OFFSITE
7. OBLITERATE EXISTING PAVEMENT MARKING
8. FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
9. 2" AC PAVEMENT REMOVAL BY MILLING
10. CLEAR AND GRUB
11. SAWCUT EXISTING AC PAVEMENT – FULL DEPTH
12. PROTECT IN PLACE
13. UNDERDRAIN REMOVAL



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ISSUE:

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FILE NAME:	_33-00193-R1CD-101-C01
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DEMOLITION PLAN - ALTERNATE 1

C3.2

SHEET NO. 83 OF 140

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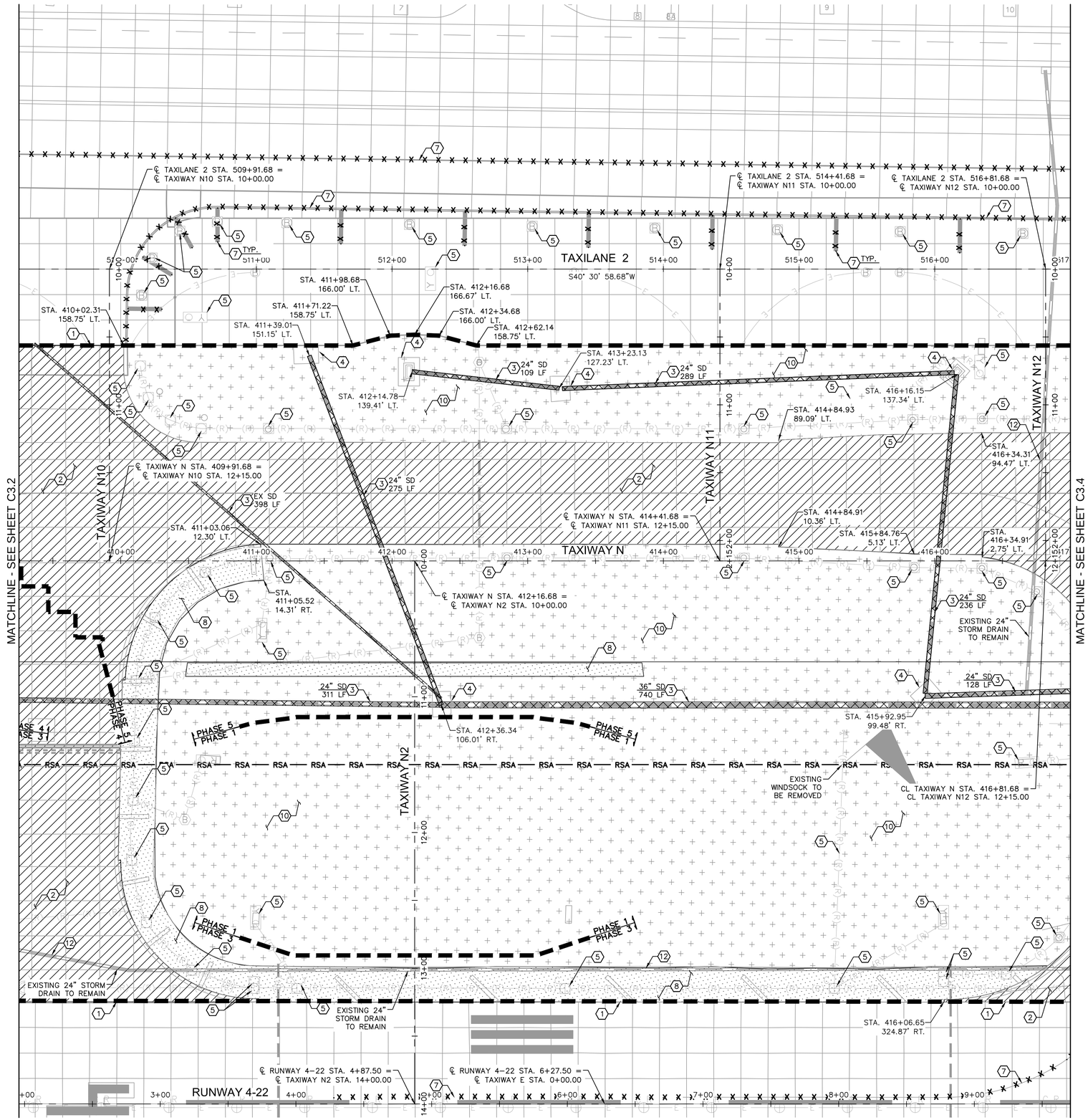


LEGEND

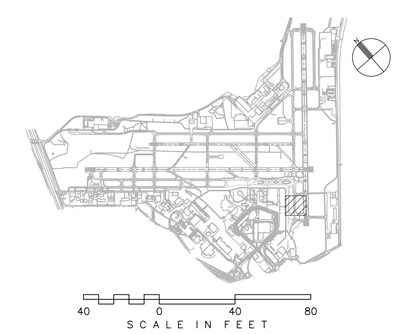
- PORTLAND CEMENT CONCRETE PAVEMENT REMOVAL
- CLEAR AND GRUB (P-101)
- FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
- 2" AC PAVEMENT REMOVAL BY MILLING
- PORTLAND CEMENT CONCRETE PAVEMENT VARIABLE MILL (MAX 2")
- STORM DRAIN REMOVAL
- PAVEMENT MARKING OBLITERATION
- PHASING LIMITS

GENERAL NOTES

1. EXISTING UTILITY INFORMATION SHOWN ON THE PLANS CONCERNING THE TYPE, SIZE, AND LOCATION WERE COMPILED BASED ON THE UTILITY RECORDS AVAILABLE TO THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OR SPECIFIED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE RESET OR RELOCATED BY THE UTILITY COMPANY CONCERNED UNLESS NOTED OTHERWISE.
2. REFER TO SHEET C1.9 FOR HORIZONTAL AND VERTICAL CONTROL.
3. REFER TO ELECTRICAL PLANS (SERIES E) FOR ELECTRICAL DEMOLITION.
4. DOUBLE SAWCUT IS REQUIRED ALONG PCC REMOVAL LIMITS TO PROTECT EXISTING PCC PAVEMENT TO REMAIN.
5. STATIONING IS BASED ON FUTURE TAXIWAY N CENTERLINE STATIONING.
6. ALTERNATE 1 INCLUDES DEMOLITION OF THOSE AREAS SHOWN PREVIOUSLY IN THE BASE BID PLANS. THE NEW PHASING LIMITS, AS SHOWN IN THE INDIVIDUAL ALTERNATE 1 PHASING SHEETS, ALTER LIMITS AND TIMING OF THE BASE BID. IF ALTERNATE 1 IS AWARDED, BASE BID PHASING WILL BE INCLUDED IN ALTERNATE 1.

CONSTRUCTION NOTES

1. SAWCUT EXISTING PCC PAVEMENT – FULL DEPTH
2. REMOVE AND DISPOSE OF EXISTING PCC PAVEMENT OFFSITE
3. REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE – LIMITS OF REMOVAL PER PLAN
4. REMOVE AND DISPOSE OF EXISTING DRAINAGE STRUCTURE
5. REFER TO ELECTRICAL PLANS (SERIES E)
6. REMOVE AND DISPOSE OF EXISTING AC PAVEMENT OFFSITE
7. OBLITERATE EXISTING PAVEMENT MARKING
8. FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
9. 2" AC PAVEMENT REMOVAL BY MILLING
10. CLEAR AND GRUB
11. SAWCUT EXISTING AC PAVEMENT – FULL DEPTH
12. PROTECT IN PLACE
13. UNDERDRAIN REMOVAL



CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166

TEXAS REGISTERED FIRM, NO. 928

TERMINAL AREA TAXIWAY IMPROVEMENTS - (PACKAGE 3)

MICHAEL A. NORBY
87178
REGISTERED PROFESSIONAL ENGINEER
05/18/15

MARK	DATE	DESCRIPTION

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DEMOLITION PLAN - ALTERNATE 1

C3.3

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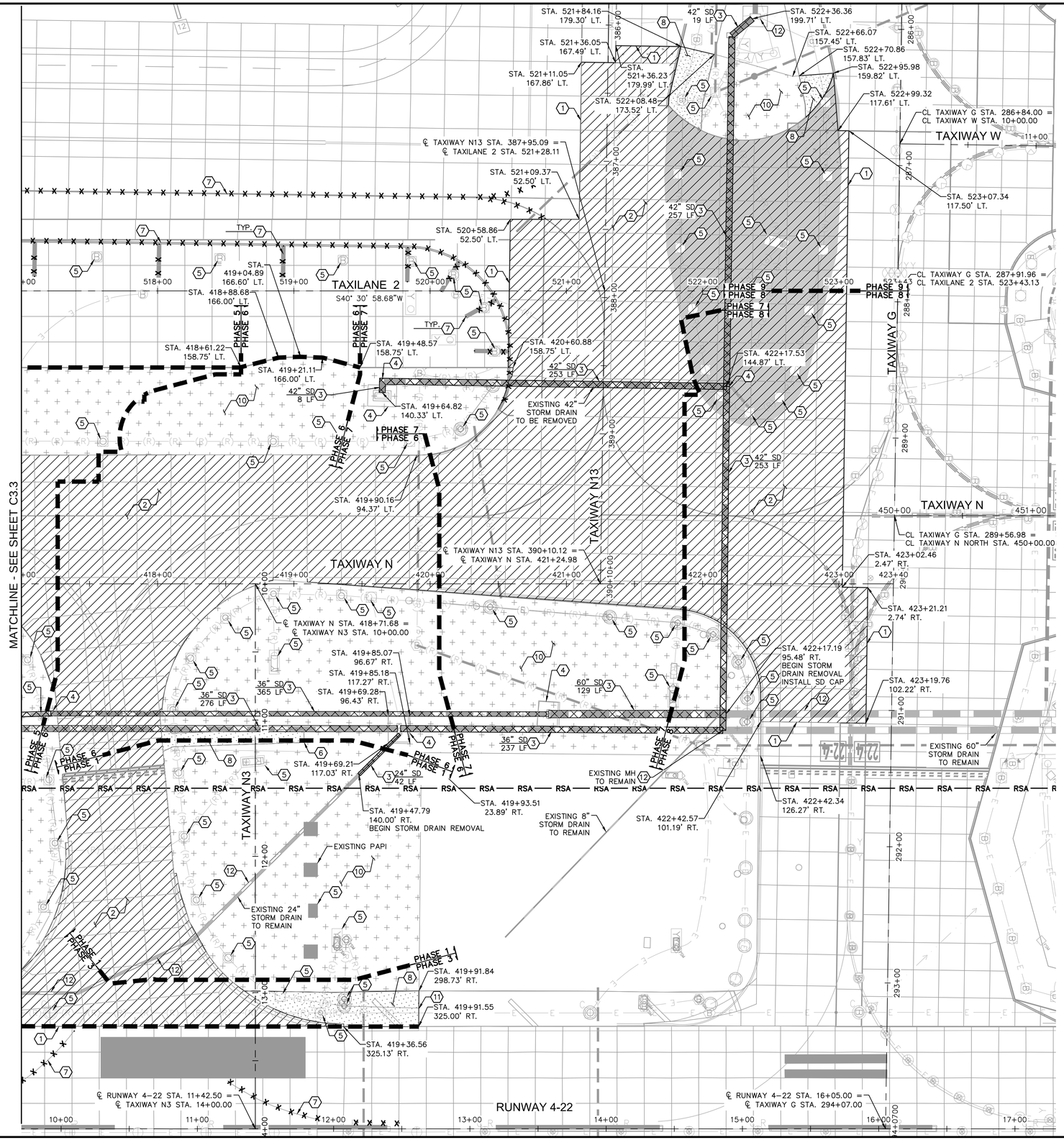

LEGEND

- PORTLAND CEMENT CONCRETE PAVEMENT REMOVAL
- CLEAR AND GRUB (P-101)
- FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
- 2" AC PAVEMENT REMOVAL BY MILLING
- PORTLAND CEMENT CONCRETE PAVEMENT VARIABLE MILL (MAX 2")
- STORM DRAIN REMOVAL
- × × × PAVEMENT MARKING OBLITERATION
- PHASING LIMITS

GENERAL NOTES

1. EXISTING UTILITY INFORMATION SHOWN ON THE PLANS CONCERNING THE TYPE, SIZE, AND LOCATION WERE COMPILED BASED ON THE UTILITY RECORDS AVAILABLE TO THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OR SPECIFIED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE RESET OR RELOCATED BY THE UTILITY COMPANY CONCERNED UNLESS NOTED OTHERWISE.
2. REFER TO SHEET C1.9 FOR HORIZONTAL AND VERTICAL CONTROL.
3. REFER TO ELECTRICAL PLANS (SERIES E) FOR ELECTRICAL DEMOLITION.
4. DOUBLE SAWCUT IS REQUIRED ALONG PCC REMOVAL LIMITS TO PROTECT EXISTING PCC PAVEMENT TO REMAIN.
5. STATIONING IS BASED ON FUTURE TAXIWAY N CENTERLINE STATIONING.
6. ALTERNATE 1 INCLUDES DEMOLITION OF THOSE AREAS SHOWN PREVIOUSLY IN THE BASE BID PLANS. THE NEW PHASING LIMITS, AS SHOWN IN THE INDIVIDUAL ALTERNATE 1 PHASING SHEETS, ALTER LIMITS AND TIMING OF THE BASE BID. IF ALTERNATE 1 IS AWARDED, BASE BID PHASING WILL BE INCLUDED IN ALTERNATE 1.

CONSTRUCTION NOTES

1. SAWCUT EXISTING PCC PAVEMENT – FULL DEPTH
2. REMOVE AND DISPOSE OF EXISTING PCC PAVEMENT OFFSITE
3. REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE – LIMITS OF REMOVAL PER PLAN
4. REMOVE AND DISPOSE OF EXISTING DRAINAGE STRUCTURE
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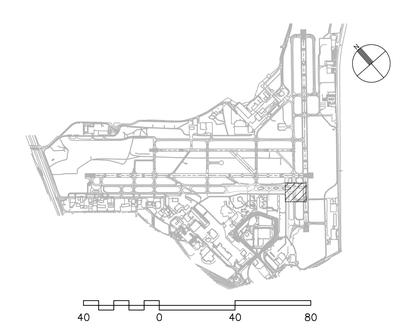
6. REMOVE AND DISPOSE OF EXISTING AC PAVEMENT OFFSITE
7. OBLITERATE EXISTING PAVEMENT MARKING
8. FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
9. 2" AC PAVEMENT REMOVAL BY MILLING
10. CLEAR AND GRUB
11. SAWCUT EXISTING AC PAVEMENT – FULL DEPTH
12. PROTECT IN PLACE
13. UNDERDRAIN REMOVAL



CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn

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601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166

TEXAS REGISTERED FIRM, NO. 928

TERMINAL AREA TAXIWAY IMPROVEMENTS - (PACKAGE 3)

MICHAEL A. NORBY 87178 REGISTERED PROFESSIONAL ENGINEER 05/18/15

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DEMOLITION PLAN - ALTERNATE 1

C3.4

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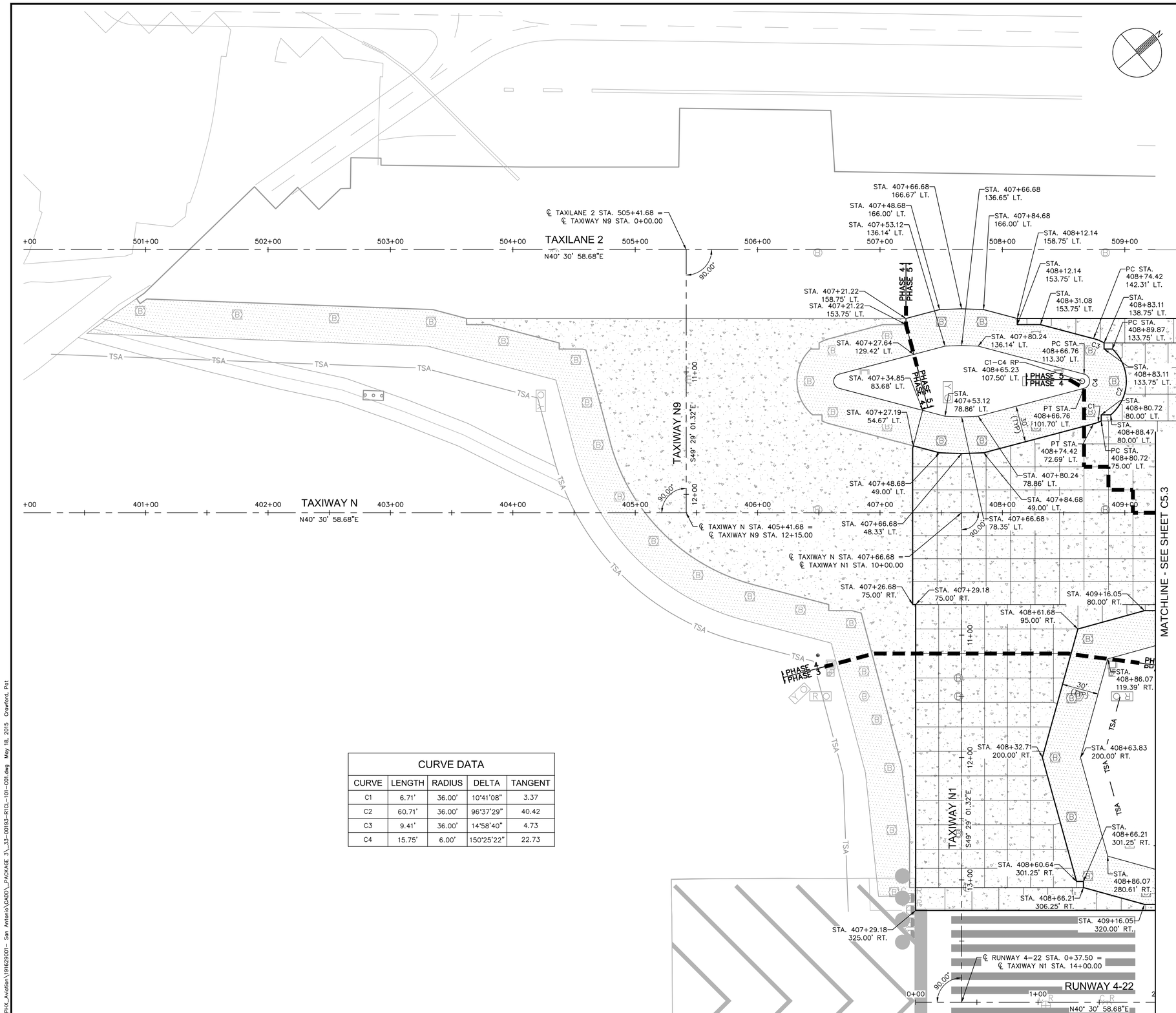


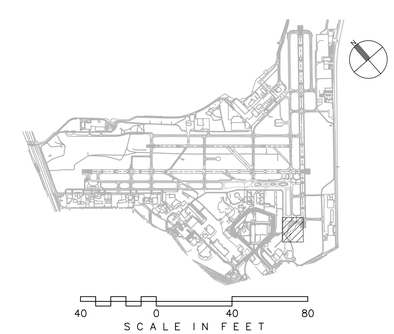
CURVE DATA				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
C1	6.71'	36.00'	10°41'08"	3.37
C2	60.71'	36.00'	96°37'29"	40.42
C3	9.41'	36.00'	14°58'40"	4.73
C4	15.75'	6.00'	150°25'22"	22.73

LEGEND

- PORTLAND CEMENT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE TRANSITION
- ASPHALT CONCRETE SHOULDER PAVEMENT
- ASPHALT CONCRETE TRANSITION
- ASPHALT CONCRETE MILL AND REPLACE (VARIABLE DEPTH)

GENERAL NOTES

1. REFER TO SHEET C1.9 HORIZONTAL AND VERTICAL CONTROL.
2. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.
3. ALL STATIONS AND OFFSETS REFER TO FUTURE TAXIWAY N CENTERLINE UNLESS OTHERWISE NOTED.



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MICHAEL A. NORBY
87178
REGISTERED PROFESSIONAL ENGINEER
05/18/15

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GEOMETRIC LAYOUT PLAN - ALTERNATE 1

C5.2

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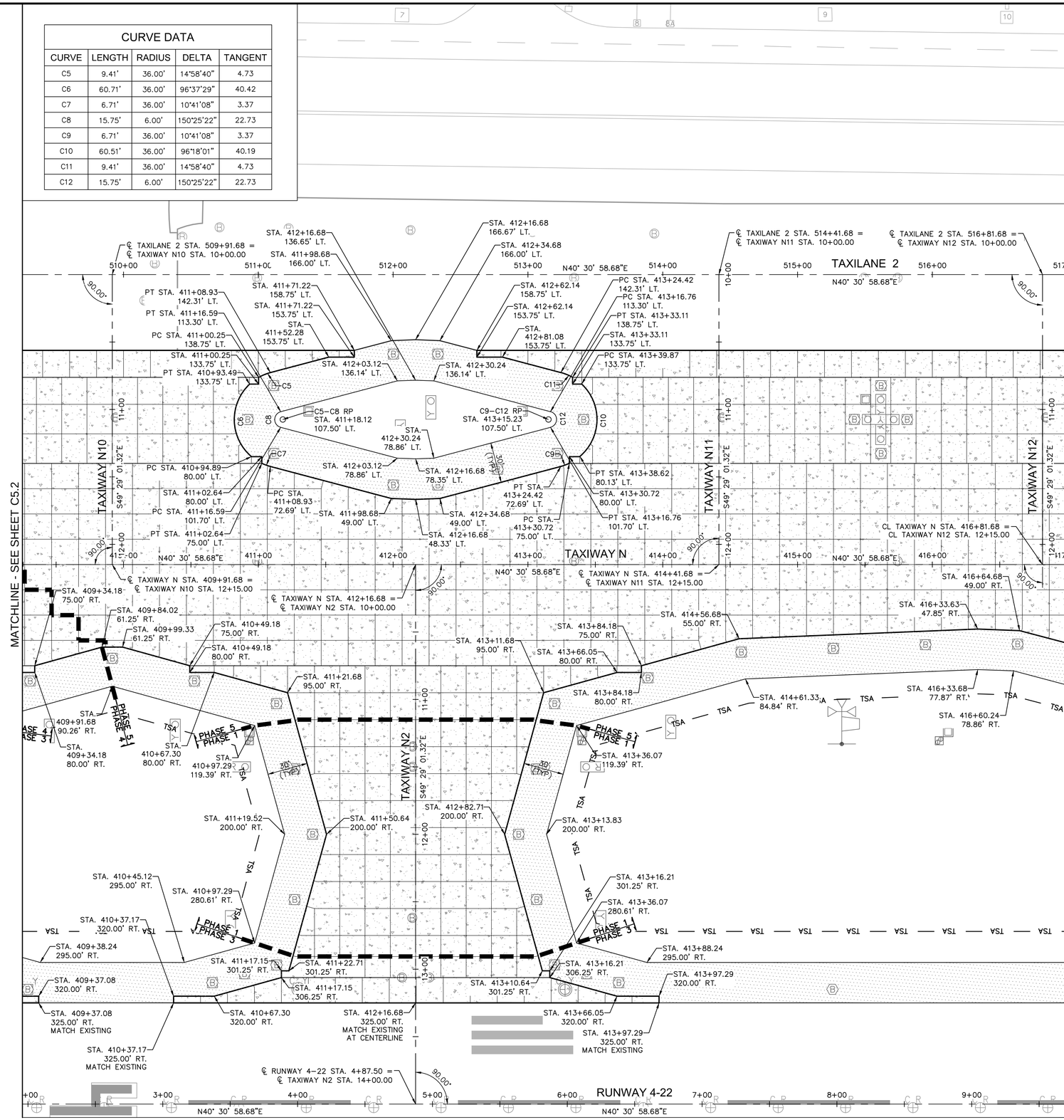
CURVE DATA

CURVE	LENGTH	RADIUS	DELTA	TANGENT
C5	9.41'	36.00'	14°58'40"	4.73
C6	60.71'	36.00'	96°37'29"	40.42
C7	6.71'	36.00'	10°41'08"	3.37
C8	15.75'	6.00'	150°25'22"	22.73
C9	6.71'	36.00'	10°41'08"	3.37
C10	60.51'	36.00'	96°18'01"	40.19
C11	9.41'	36.00'	14°58'40"	4.73
C12	15.75'	6.00'	150°25'22"	22.73

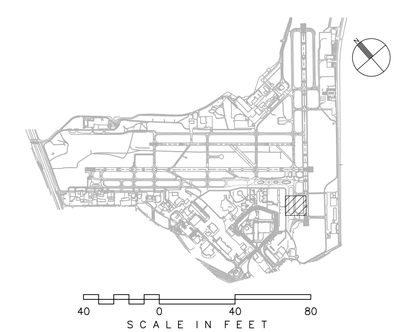


LEGEND

- PORTLAND CEMENT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE TRANSITION
- ASPHALT CONCRETE SHOULDER PAVEMENT
- ASPHALT CONCRETE TRANSITION
- ASPHALT CONCRETE MILL AND REPLACE (VARIABLE DEPTH)

GENERAL NOTES

1. REFER TO SHEET C1.9 HORIZONTAL AND VERTICAL CONTROL.
2. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.
3. ALL STATIONS AND OFFSETS REFER TO FUTURE TAXIWAY N CENTERLINE UNLESS OTHERWISE NOTED.



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601 NW LOOP 410, SUITE 350
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PHONE: (210) 541-9166

TEXAS REGISTERED FIRM, NO. 928

TERMINAL AREA TAXIWAY IMPROVEMENTS - (PACKAGE 3)

MICHAEL A. NORBY
87178
REGISTERED PROFESSIONAL ENGINEER
05/18/15

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GEOMETRIC LAYOUT PLAN - ALTERNATE 1

C5.3

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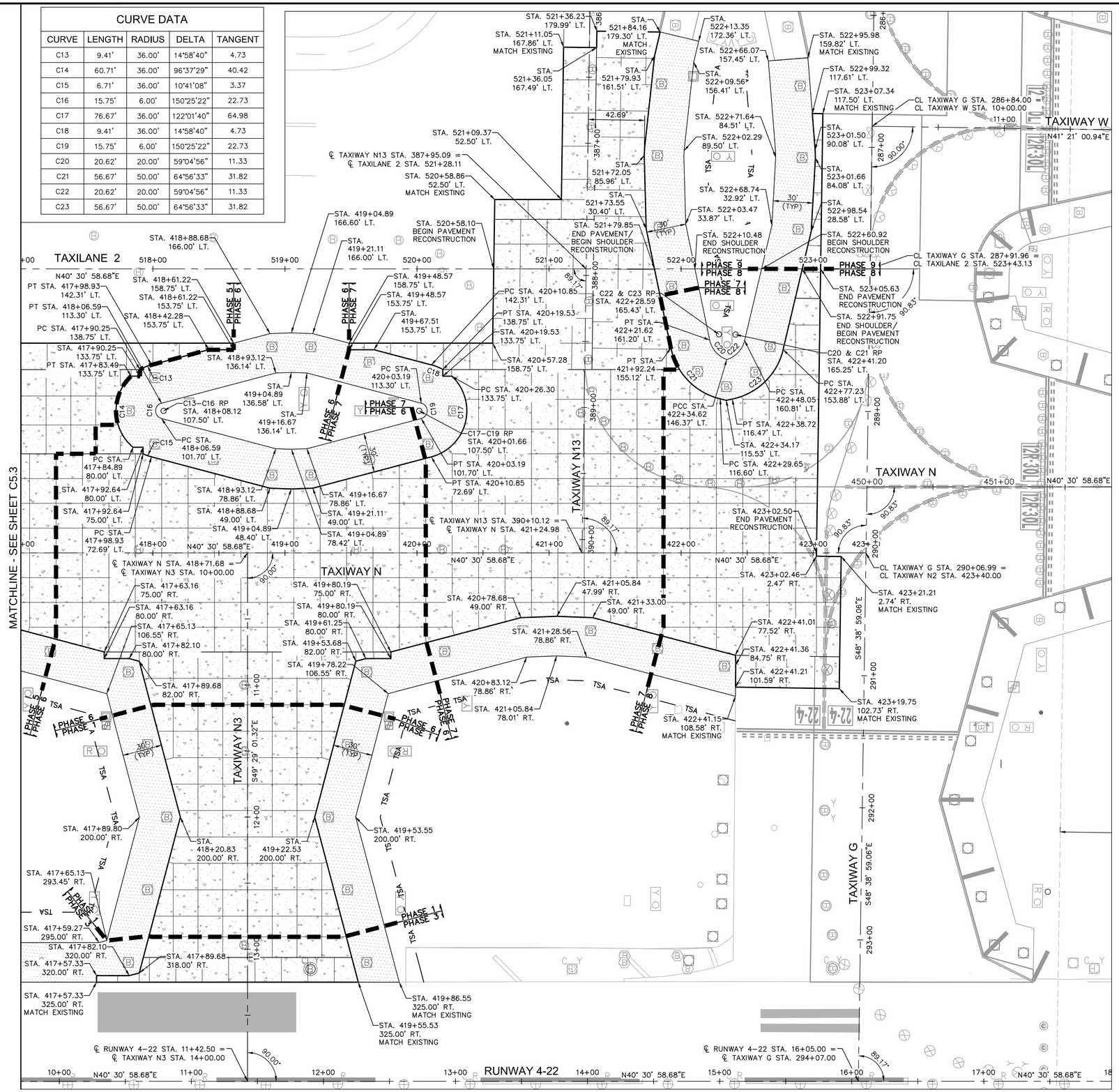
CURVE DATA				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
C13	9.41'	36.00'	14°58'40"	4.73
C14	60.71'	36.00'	96°37'29"	40.42
C15	6.71'	36.00'	10°41'08"	3.37
C16	15.75'	6.00'	150°25'22"	22.73
C17	76.67'	36.00'	122°01'40"	64.98
C18	9.41'	36.00'	14°58'40"	4.73
C19	15.75'	6.00'	150°25'22"	22.73
C20	20.62'	20.00'	59°04'56"	11.33
C21	56.67'	50.00'	64°56'33"	31.82
C22	20.62'	20.00'	59°04'56"	11.33
C23	56.67'	50.00'	64°56'33"	31.82

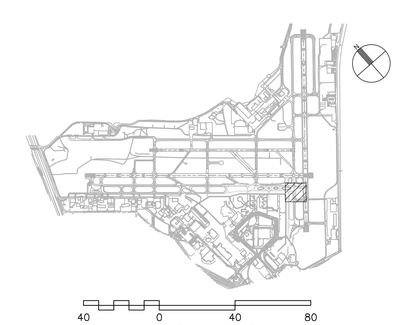


LEGEND

- PORTLAND CEMENT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE TRANSITION
- ASPHALT CONCRETE SHOULDER PAVEMENT
- ASPHALT CONCRETE TRANSITION
- ASPHALT CONCRETE MILL AND REPLACE (VARIABLE DEPTH)

GENERAL NOTES

1. REFER TO SHEET C1.9 HORIZONTAL AND VERTICAL CONTROL.
2. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.
3. ALL STATIONS AND OFFSETS REFER TO FUTURE TAXIWAY N CENTERLINE UNLESS OTHERWISE NOTED.



CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

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601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166

TEXAS REGISTERED FIRM, NO. 928

TERMINAL AREA TAXIWAY IMPROVEMENTS - (PACKAGE 3)

STATE OF TEXAS
MICHAEL A. NORBY
87178
REGISTERED PROFESSIONAL ENGINEER
05/18/15

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GEOMETRIC LAYOUT PLAN - ALTERNATE 1

C5.4

SHEET NO. 88 OF 140

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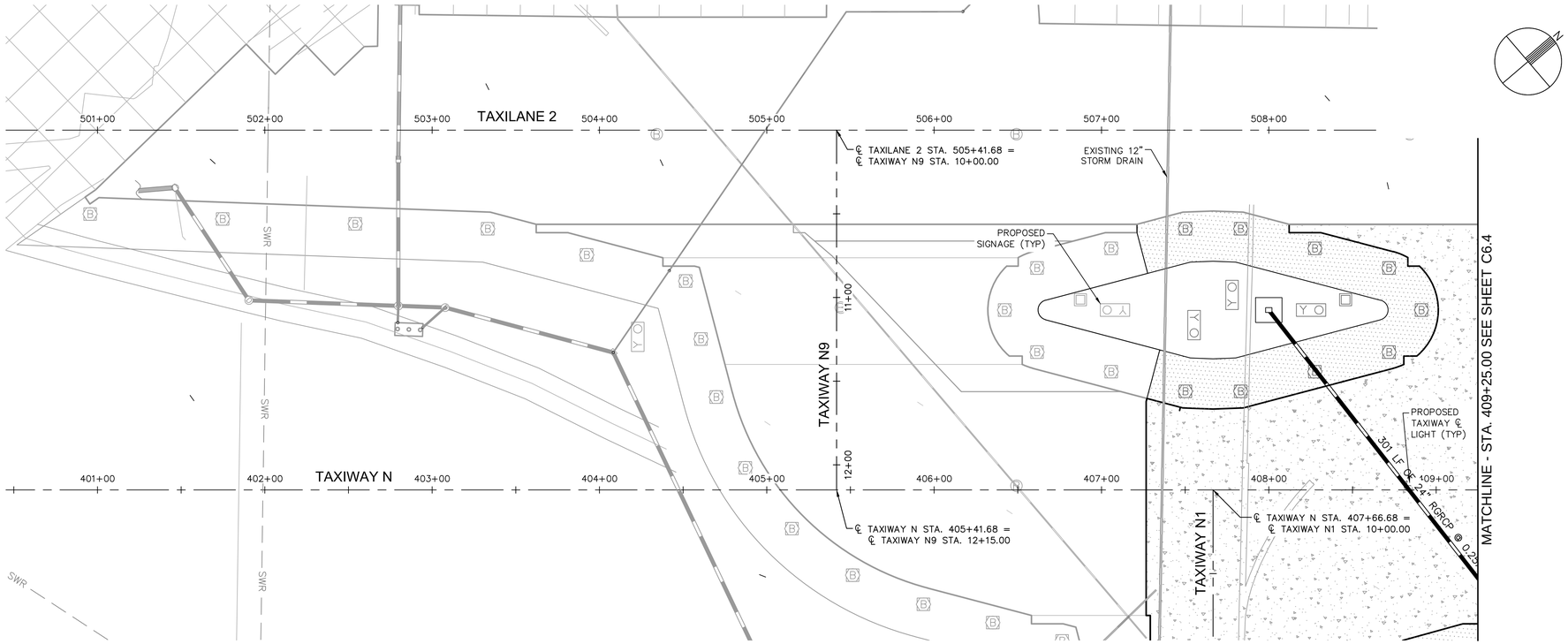
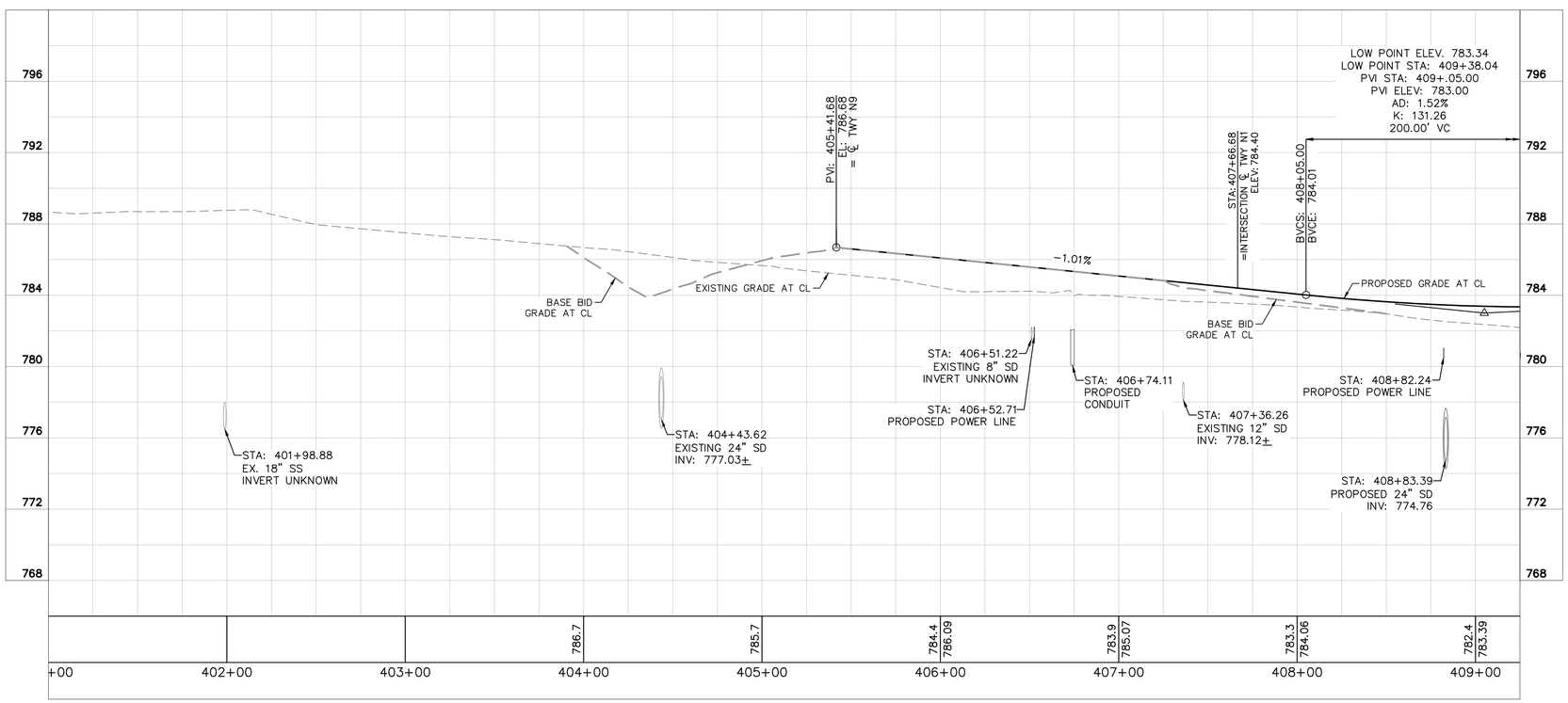




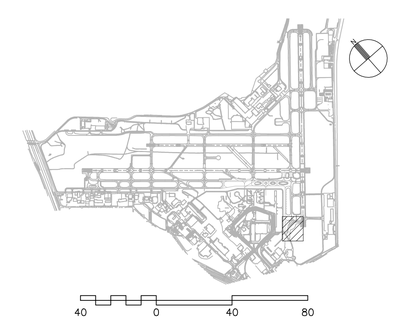
SCALE IN FEET (VERTICAL)

LEGEND

- PORTLAND CEMENT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE TRANSITION
- ASPHALT CONCRETE SHOULDER PAVEMENT
- ASPHALT CONCRETE TRANSITION
- ASPHALT CONCRETE MILL AND REPLACE (VARIABLE DEPTH)
- EXISTING RGRCP
- PROPOSED RGRCP
- DIRECTION OF FLOW
- 780 EXISTING CONTOUR
- 780 PROPOSED CONTOUR

GENERAL NOTES

1. ALL STATIONS AND OFFSETS REFER TO THE APPROPRIATE RUNWAY OR TAXIWAY STATIONING.
2. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.
3. REFER TO GRADING AND DRAINAGE PLANS FOR DRAINAGE INFORMATION.



CITY OF SAN ANTONIO AVIATION DEPARTMENT

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601 NW LOOP 410, SUITE 350
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TEXAS REGISTERED FIRM, NO. 928

TERMINAL AREA TAXIWAY IMPROVEMENTS - (PACKAGE 3)

MICHAEL A. NORBY
87178
REGISTERED PROFESSIONAL ENGINEER
05/18/15

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PLAN AND PROFILE - TAXIWAY N - ALTERNATE 1

C6.3

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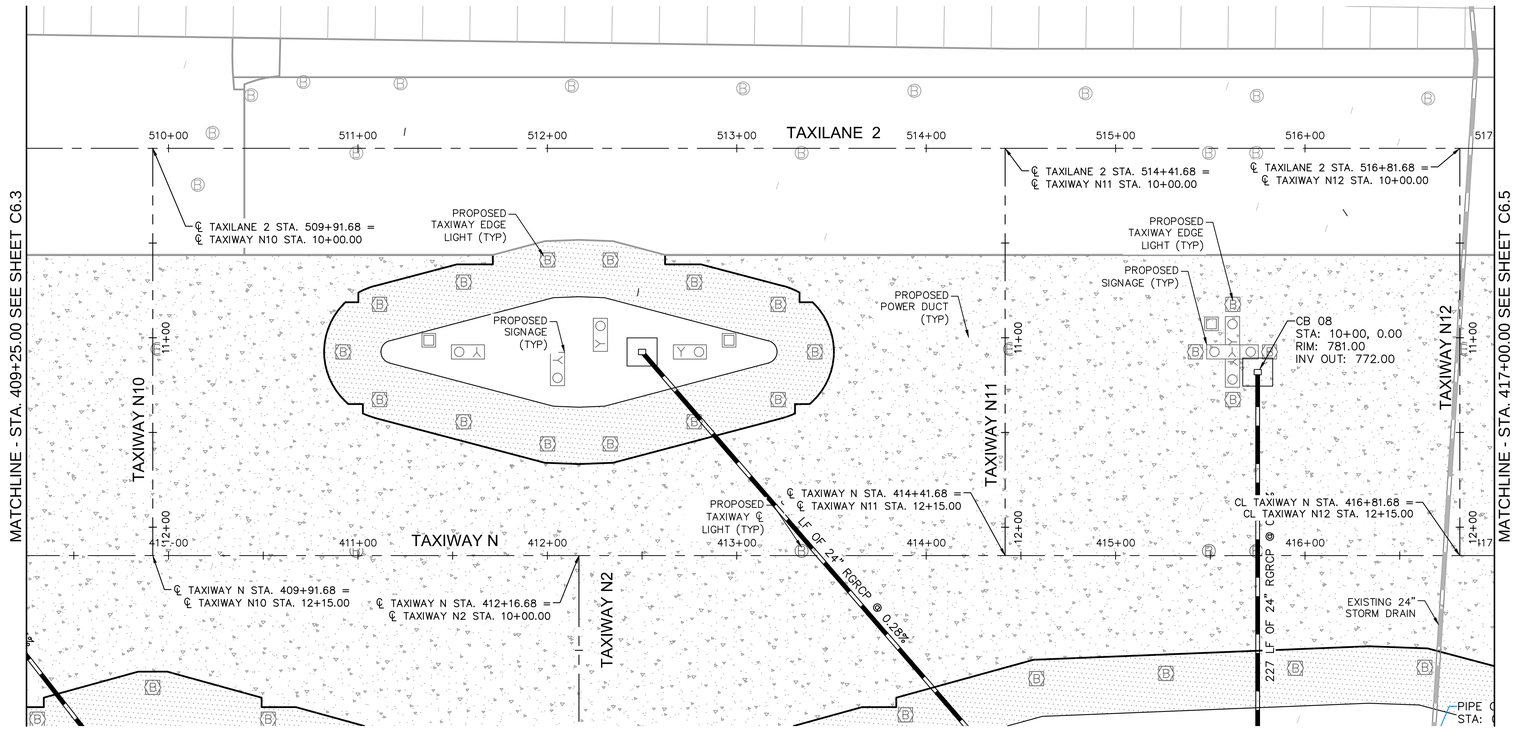

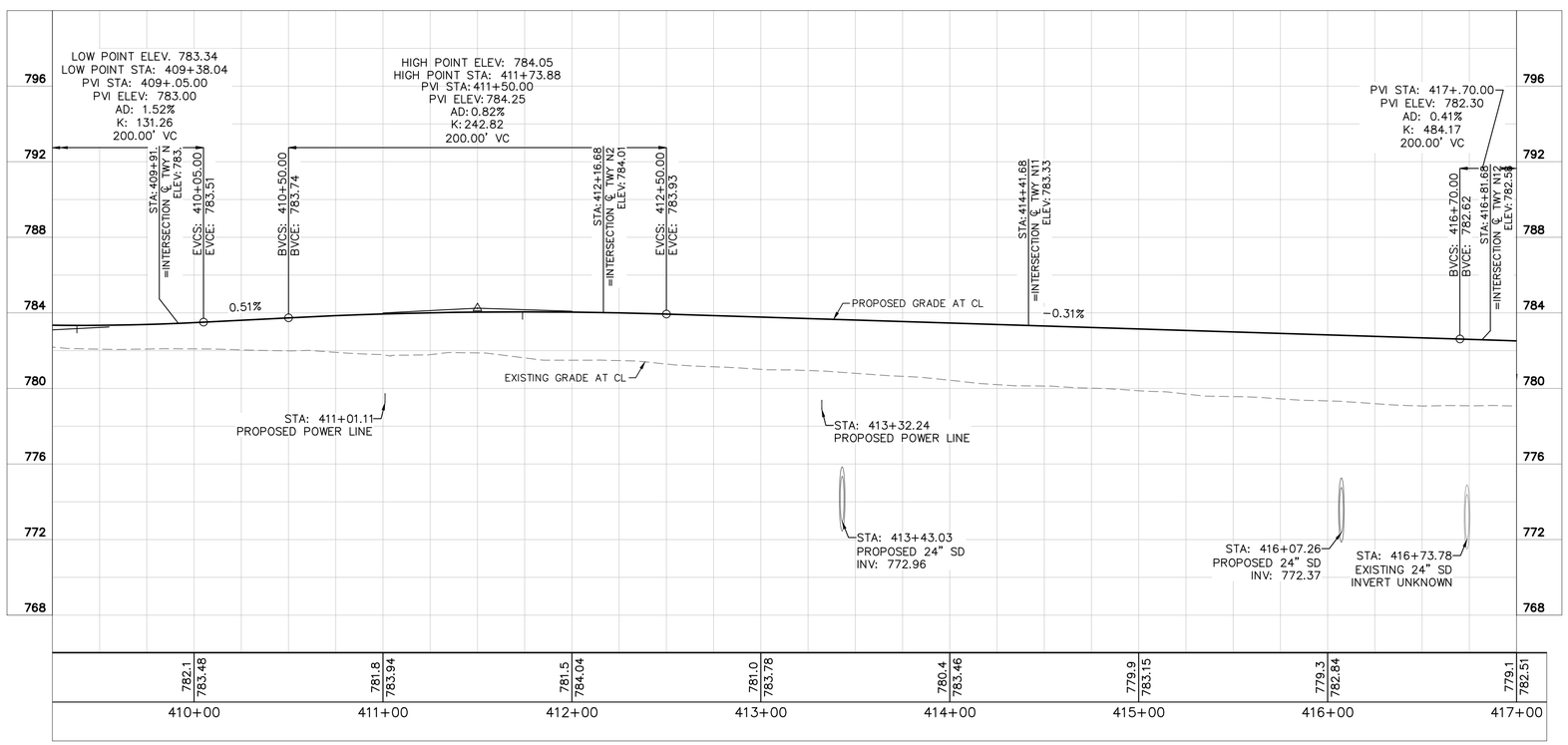

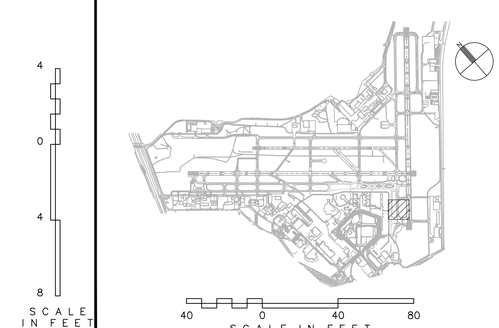

LEGEND

- PORTLAND CEMENT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE TRANSITION
- ASPHALT CONCRETE SHOULDER PAVEMENT
- ASPHALT CONCRETE TRANSITION
- ASPHALT CONCRETE MILL AND REPLACE (VARIABLE DEPTH)
- EXISTING RGRCP
- PROPOSED RGRCP
- DIRECTION OF FLOW
- 780 EXISTING CONTOUR
- 780 PROPOSED CONTOUR

GENERAL NOTES

1. ALL STATIONS AND OFFSETS REFER TO THE APPROPRIATE RUNWAY OR TAXIWAY STATIONING.
2. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.
3. REFER TO GRADING AND DRAINAGE PLANS FOR DRAINAGE INFORMATION.

CITY OF SAN ANTONIO AVIATION DEPARTMENT

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TEXAS REGISTERED FIRM, NO. 928

TERMINAL AREA TAXIWAY IMPROVEMENTS - (PACKAGE 3)

MICHAEL A. NORBY 67178 REGISTERED PROFESSIONAL ENGINEER

05/18/15

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PLAN AND PROFILE - TAXIWAY N - ALTERNATE 1

C6.4

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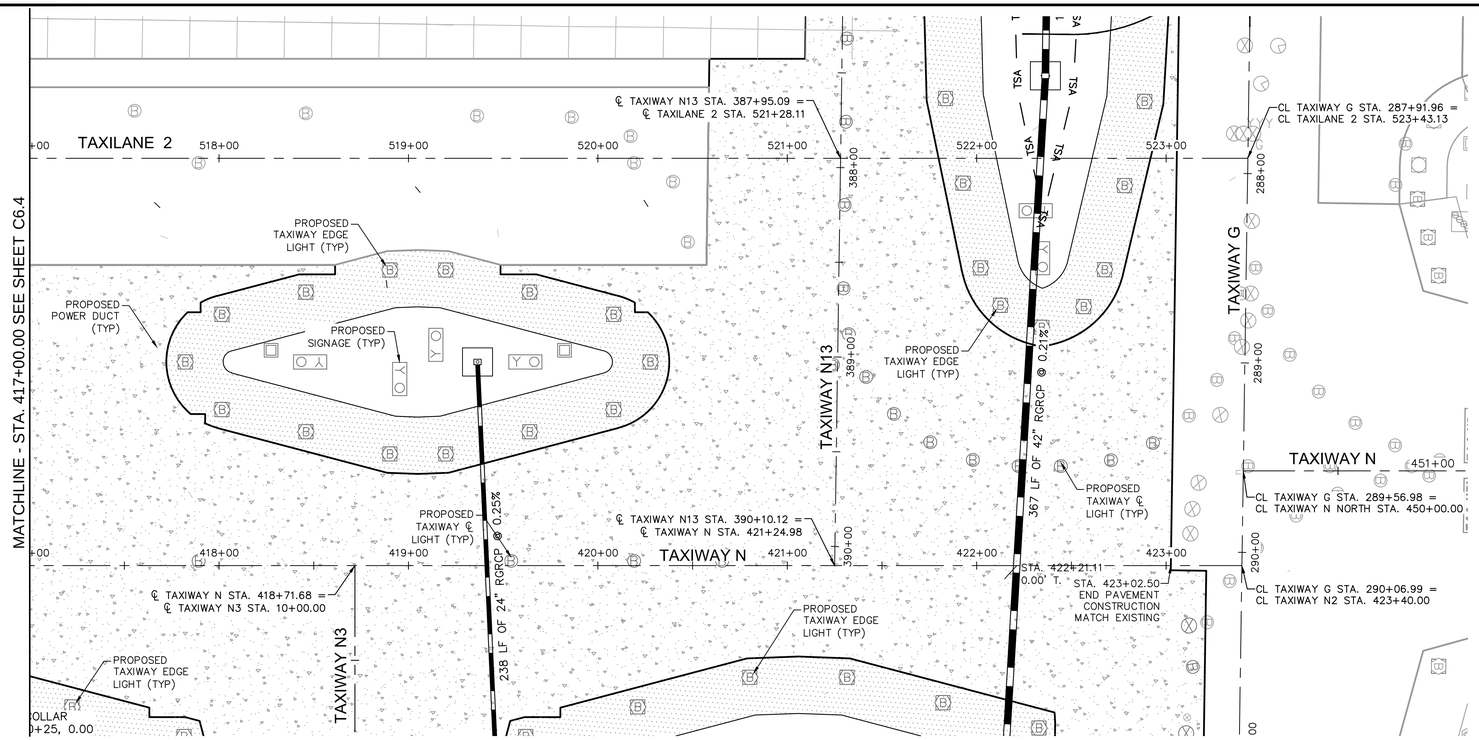

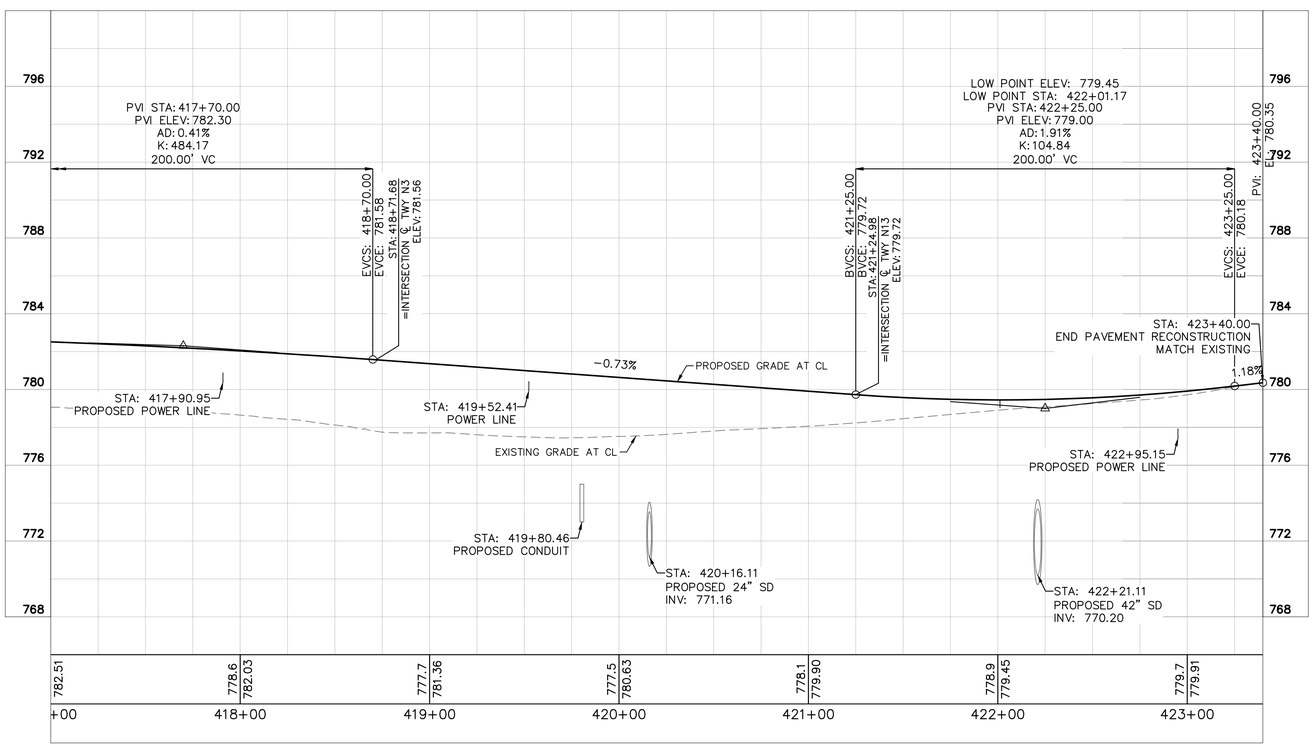

LEGEND

- PORTLAND CEMENT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE TRANSITION
- ASPHALT CONCRETE SHOULDER PAVEMENT
- ASPHALT CONCRETE TRANSITION
- ASPHALT CONCRETE MILL AND REPLACE (VARIABLE DEPTH)
- EXISTING RGRCP
- PROPOSED RGRCP
- DIRECTION OF FLOW
- 780 EXISTING CONTOUR
- 780 PROPOSED CONTOUR

GENERAL NOTES

1. ALL STATIONS AND OFFSETS REFER TO THE APPROPRIATE RUNWAY OR TAXIWAY STATIONING.
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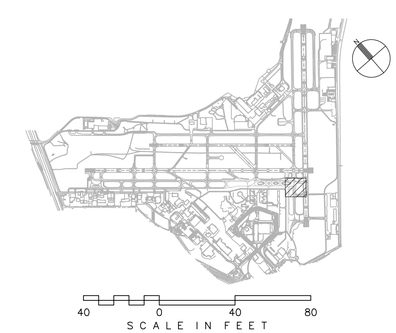
SCALE IN FEET (VERTICAL)



CITY OF SAN ANTONIO AVIATION DEPARTMENT

SAN ANTONIO AIRPORT SYSTEM

Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
PHONE: (210) 541-9166

TEXAS REGISTERED FIRM, NO. 928

TERMINAL AREA TAXIWAY IMPROVEMENTS - (PACKAGE 3)

MICHAEL A. NORBY
67178
REGISTERED PROFESSIONAL ENGINEER
05/18/15

MARK	DATE	DESCRIPTION

ISSUE:

PROJECT NO:	33-00193
FILE NAME:	_33-00193-R1CP-101-C01
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PLAN AND PROFILE - TAXIWAY N - ALTERNATE 1

C6.5

SHEET NO. 91 OF 140

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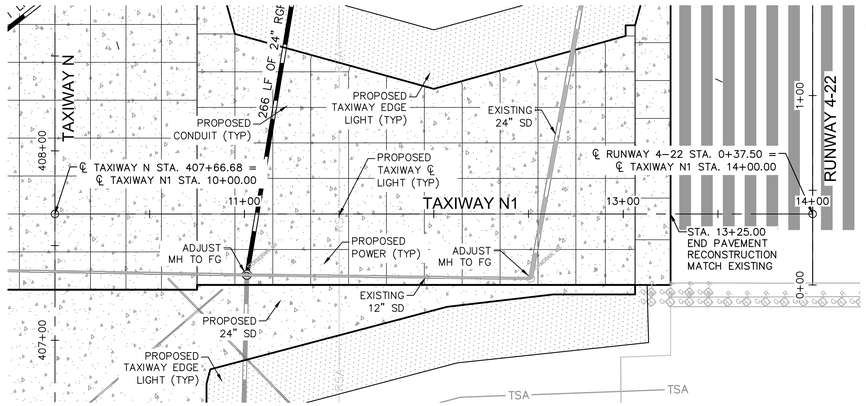
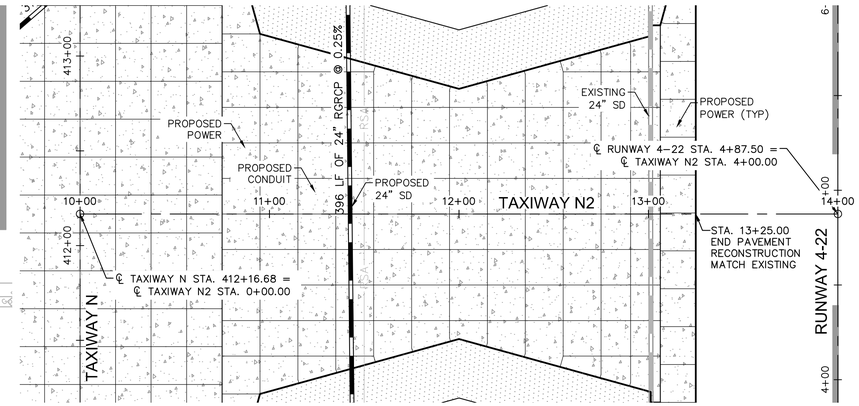


TAXIWAY N1



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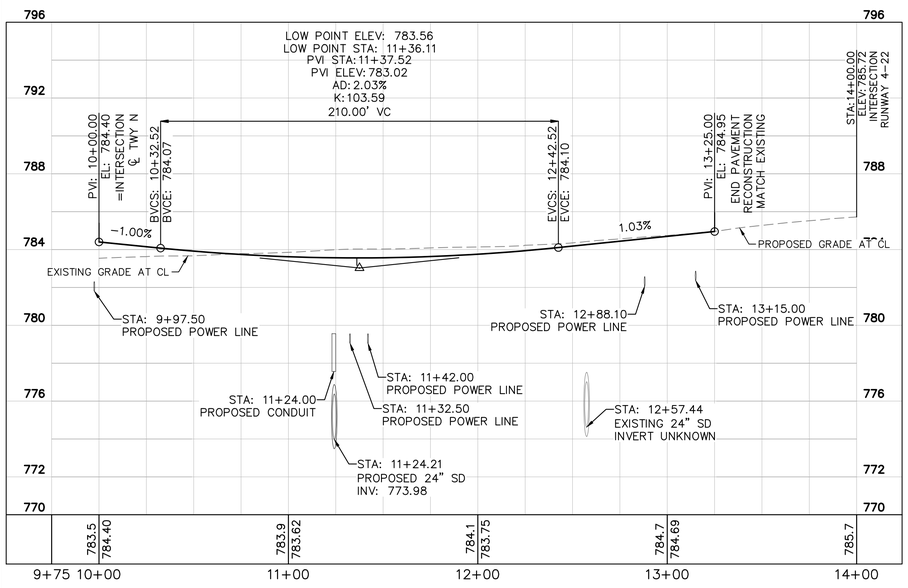
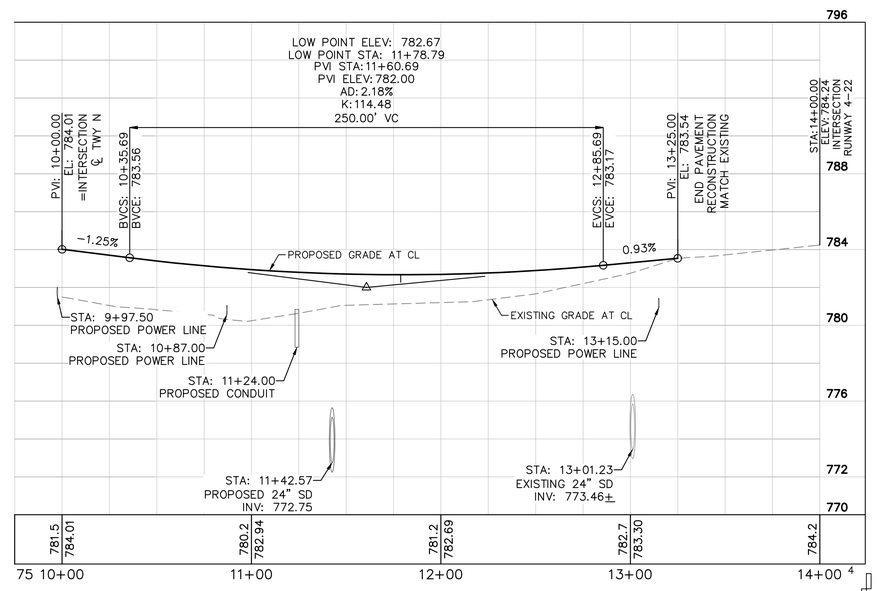




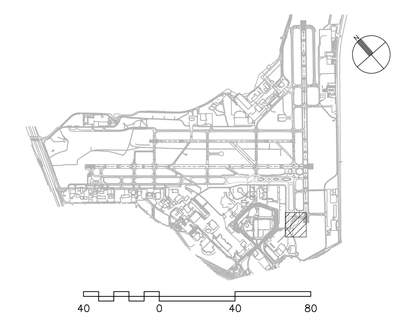
SCALE IN FEET (VERTICAL)

LEGEND

- PORTLAND CEMENT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE TRANSITION
- ASPHALT CONCRETE SHOULDER PAVEMENT
- ASPHALT CONCRETE TRANSITION
- ASPHALT CONCRETE MILL AND REPLACE (VARIABLE DEPTH)
- EXISTING RGRCP
- PROPOSED RGRCP
- DIRECTION OF FLOW
- 780 EXISTING CONTOUR
- 780 PROPOSED CONTOUR

GENERAL NOTES

1. ALL STATIONS AND OFFSETS REFER TO THE APPROPRIATE RUNWAY OR TAXIWAY STATIONING.
2. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.
3. REFER TO GRADING AND DRAINAGE PLANS FOR DRAINAGE INFORMATION.



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SCALE IN FEET

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SHEET NO. 92 OF 140

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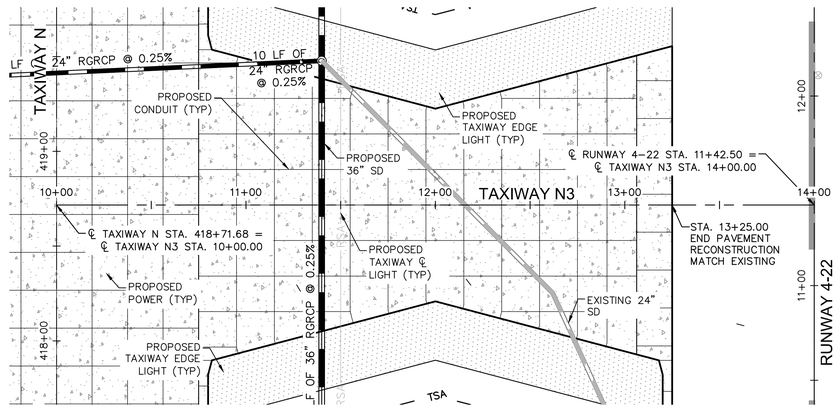
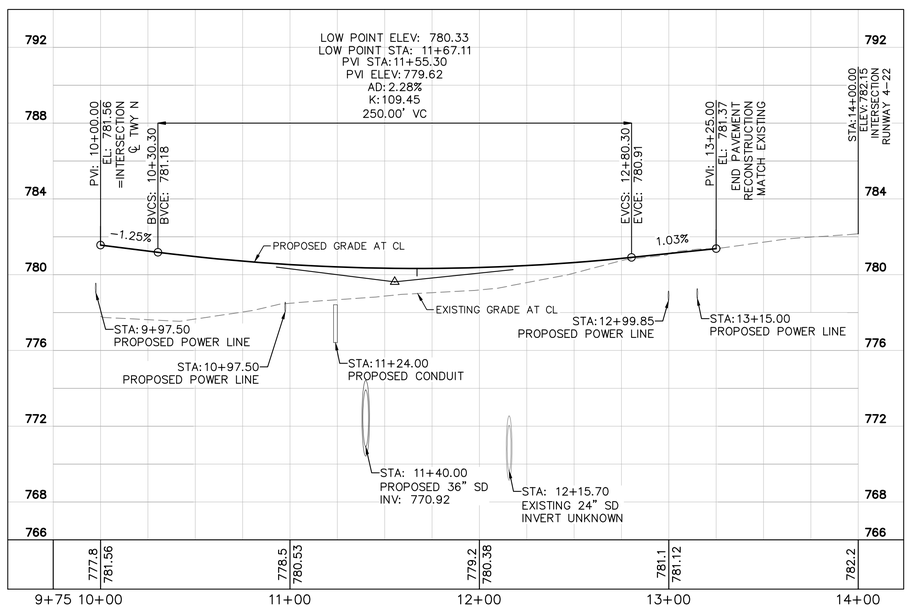


TAXIWAY N3



LEGEND

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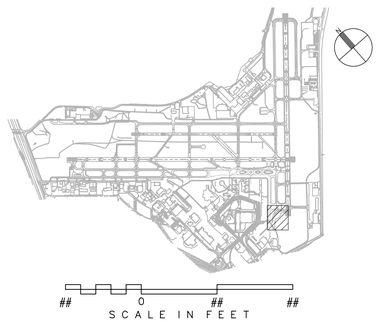

SCALE IN FEET (VERTICAL)

SCALE IN FEET

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PLAN AND PROFILE - TAXIWAY N3 TAXIWAY N9 - ALTERNATE 1

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