



## APPENDIX B: AIRPORT LAYOUT DRAWINGS



# LAUGHLIN/BULLHEAD INTERNATIONAL AIRPORT

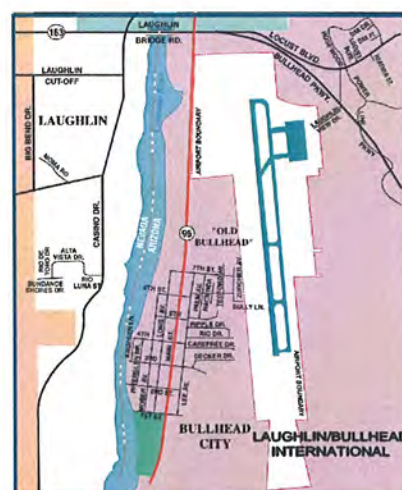
## AIRPORT LAYOUT PLANS

PREPARED FOR THE  
MOHAVE COUNTY AIRPORT AUTHORITY

## DRAWING INDEX



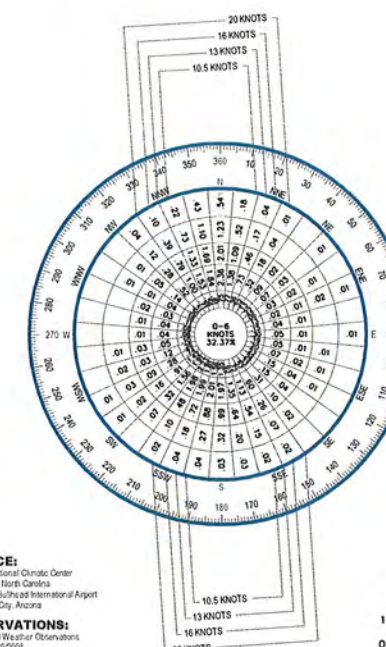
### LOCATION MAP



### VICINITY MAP

1. AIRPORT LAYOUT DRAWING
2. TERMINAL AREA DRAWING
3. AIRPORT AIRSPACE DRAWING I
4. AIRPORT AIRSPACE DRAWING II
5. AIRPORT AIRSPACE APPROACH PROFILE RUNWAY 16L-34R
6. AIRPORT AIRSPACE APPROACH PROFILE RUNWAY 34R
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11. INNER PORTION OF THE APPROACH SURFACE DRAWING RUNWAY 34L
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14. ON-AIRPORT LAND USE DRAWING
15. AIRPORT PROPERTY MAP
16. INNER APPROACH OFZ DRAWING

| ALL WEATHER WIND COVERAGE |            |          |          |          |
|---------------------------|------------|----------|----------|----------|
| Runway                    | 10.5 Knots | 13 Knots | 16 Knots | 20 Knots |
| Runway 16-34              | 95.04%     | 97.87%   | 99.10%   | 99.71%   |



**SOURCE:**  
NOAA National Climatic Center  
Asheville, North Carolina  
Laughlin/Bulhead International Airport  
Bulhead City, Arizona

**OBSERVATIONS:**  
42,001 All Weather Observations  
1991-2000

**Magnetic Declination**  
12° 13' East (February 2009)  
Annual Rate of Change  
00° 06' West (February 2009)

February 27, 2009



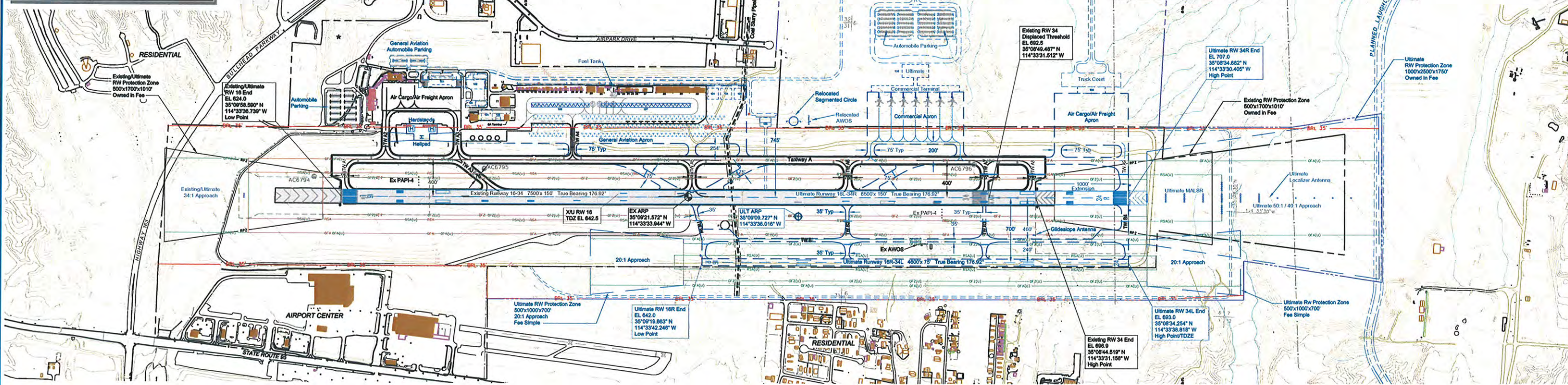


| EXISTING | ULTIMATE | DESCRIPTION                          |
|----------|----------|--------------------------------------|
|          |          | AIRPORT PROPERTY LINE                |
|          |          | SECTION CORNERS                      |
|          |          | AIRPORT REFERENCE POINT (ARP)        |
|          |          | AIRPORT ROTATING BEACON              |
|          |          | AVIATION EASEMENT                    |
|          |          | BUILDING RESTRICTION LINE            |
|          |          | STRUCTURES ON AIRPORT                |
|          |          | ABANDON/REMOVE                       |
|          |          | STRUCTURE OFF AIRPORT                |
|          |          | FENCING                              |
|          |          | AIRPORT PAVEMENT                     |
|          |          | GLIDESLOPE ANTENNA & EQUIP. SHELTER  |
|          |          | HELICOPTER PARKING                   |
|          |          | HOLD MARKING                         |
|          |          | SURVEY MONUMENT WITH IDENTIFIER      |
|          |          | OBJECT FREE AREA                     |
|          |          | RUNWAY SAFETY AREA                   |
|          |          | OBSTACLE FREE ZONE                   |
|          |          | RUNWAY PROTECTION ZONE               |
|          |          | PAPI-4                               |
|          |          | RUNWAY END IDENTIFIER LIGHTS (REILs) |
|          |          | LIGHTED WINDSOCK                     |
|          |          | TOPOGRAPHY                           |
|          |          | ULTIMATE MALS                        |

| STANDARD                                                                                 | DESCRIPTION OF MODIFICATION                                               | ACTION    |
|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------|
| OFA CLEAR OF ABOVE GROUND OBJECTS PROTRUDING ABOVE THE RUNWAY SAFETY AREA EDGE ELEVATION | SERVICE ACCESS ROAD AND FENCE PENETRATE OBJECT FREE AREA AT RUNWAY 16 END | TO REMAIN |

| SURVEY CONTROL STATIONS |                      |                    |                     |
|-------------------------|----------------------|--------------------|---------------------|
| ID                      | PERMANENT IDENTIFIER | LATITUDE           | LONGITUDE           |
| IFP A                   | AC6796               | 35° 08' 51.2456" N | 114° 33' 28.0413" W |
| IFP B                   | AC6795               | 35° 09' 43.4799" N | 114° 33' 32.0758" W |
| IFP C                   | AC6794               | 35° 10' 01.6050" N | 114° 33' 34.4039" W |

IFP A: SET INTO TOP OF METAL PIPE DRIVEN INTO GROUND;  
IFP B: SET INTO TOP OF METAL PIPE DRIVEN INTO GROUND;  
IFP C: STAINLESS STEEL ROD W/O SLEEVE (10 FT +).



| RUNWAY DATA                                                 | RUNWAY 16-34            |                         | RUNWAY 16R-34L         |          |
|-------------------------------------------------------------|-------------------------|-------------------------|------------------------|----------|
|                                                             | EXISTING                | ULTIMATE                | EXISTING               | ULTIMATE |
| AIRCRAFT APPROACH CATEGORY-DESIGN GROUP                     | C-III                   | D-III                   | B-II                   | B-II     |
| 14 CFR PART 77 CATEGORY                                     | Nonprecision            | Nonprecision            | Visual                 | Visual   |
| APPROACH VISIBILITY MINIMUMS                                | 1 Mile                  | 1 Mile                  | 1/2 Mile               | Visual   |
| DESIGN CRITICAL AIRCRAFT                                    | Boeing 737              | Boeing 757/G 450        | Cessna Citation III    |          |
| WINGSPAN OF DESIGN AIRCRAFT                                 | 112.58'                 | 124.83'/77.83'          | 53.5'                  |          |
| UNDERCARRIAGE WIDTH OF DESIGN AIRCRAFT                      | 18.75'                  | 24'                     | 9.04'                  |          |
| APPROACH SPEED (KNOTS) OF DESIGN AIRCRAFT                   | 141                     | 143                     | 114                    |          |
| MAXIMUM CERTIFIED TAKEOFF WEIGHT (LBS) OF DESIGN AIRCRAFT   | 174,200                 | 272,000                 | 22,000                 |          |
| RUNWAY EFFECTIVE GRADIENT                                   | 1.0%                    | 1.0%                    | 1.1%                   |          |
| RUNWAY MAXIMUM GRADIENT                                     | 1.0%                    | 1.0%                    | 1.1%                   |          |
| PAVEMENT DESIGN STRENGTH (in thousand lbs.) <sup>1</sup>    | 75(S), 200(D), 400(DTW) | 75(S), 200(D), 400(DTW) | 12.5(S)                |          |
| APPROACH SLOPE                                              | 34:1                    | 34:1                    | 50:1/40:1              | 20:1     |
| RUNWAY END ELEVATION (MSL)                                  | 624.0'                  | 624.0'                  | 642.0'                 | 693.0'   |
| RUNWAY TOUCHDOWN ZONE ELEVATION (MSL)                       | 644.5'                  | 644.5'                  | 677.8'                 | 693.0'   |
| RUNWAY HIGH POINT ELEVATION (MSL)                           | 696.9'                  | 696.9'                  | 693.0'                 |          |
| RUNWAY LOW POINT ELEVATION (MSL)                            | 616.0'                  | 616.0'                  | 642.0'                 |          |
| LINE OF SIGHT REQUIREMENT MET                               | YES                     | YES                     | YES                    |          |
| RUNWAY LENGTH                                               | 7500'                   | 8500'                   | 4600'                  |          |
| RUNWAY WIDTH                                                | 150'                    | 150'                    | 75'                    |          |
| RUNWAY BEARING (TRUE)                                       | 176.92°                 | 176.92°                 | 176.92°                | 356.92°  |
| RUNWAY SAFETY AREA LENGTH BEYOND STOP END OF RUNWAY         | 1000'                   | 1000'                   | 300'                   | 300'     |
| RUNWAY SAFETY AREA WIDTH                                    | 500'                    | 500'                    | 150'                   | 300'     |
| RUNWAY OBJECT FREE AREA LENGTH BEYOND STOP END OF RUNWAY    | 878'                    | 1000'                   | 878'                   | 300'     |
| RUNWAY OBJECT FREE AREA WIDTH                               | 800'                    | 800'                    | 500'                   |          |
| RUNWAY OBSTACLE FREE ZONE LENGTH BEYOND RUNWAY END          | 200'                    | 200'                    | 200'                   | 200'     |
| RUNWAY OBSTACLE FREE ZONE WIDTH                             | 400'                    | 400'                    | 250'                   |          |
| DISTANCE FROM RUNWAY CENTERLINE TO HOLD BARS AND SIGNS      | NP                      | NP                      | 256.9'                 | V        |
| RUNWAY MARKING                                              | NP                      | P                       | 256.9'                 | V        |
| STANDARD SEPARATION - RUNWAY CL TO PARALLEL TAXIWAY CL      | 400'                    | 400'                    | 240'                   |          |
| STANDARD SEPARATION - TAXIWAY CL TO FIXED OR MOVABLE OBJECT | 93'                     | 129.5'                  | 65.5'                  |          |
| RUNWAY THRESHOLD DISPLACEMENT                               | 0'                      | 500'                    | 0'                     | 0'       |
| RUNWAY SURFACE/PAVEMENT MATERIAL                            | Asphalt                 | Asphalt                 | Asphalt                |          |
| RUNWAY PAVEMENT SURFACE TREATMENT                           | None                    | None                    | None                   |          |
| RUNWAY LIGHTING                                             | MIRL                    | MIRL                    | MIRL                   |          |
| TAKE-OFF RUN AVAILABLE                                      | 7,500'                  | 7,500'                  | 8,500'                 | 4,600'   |
| TAKE-OFF DISTANCE AVAILABLE                                 | 7,500'                  | 7,500'                  | 8,500'                 | 4,600'   |
| LANDING DISTANCE AVAILABLE                                  | 7,500'                  | 7,000'                  | 8,500'                 | 4,600'   |
| ACCELERATE STOP DISTANCE AVAILABLE                          | 7,500'                  | 7,500'                  | 8,500'                 | 4,600'   |
| TAXIWAY WIDTH                                               | 75' (50' Standard)      | 75' (50' Standard)      | 35'                    |          |
| TAXIWAY SURFACE MATERIAL                                    | Asphalt                 | Asphalt                 | Asphalt                |          |
| TAXIWAY OBJECT FREE AREA WIDTH                              | 186'                    | 186'                    | 131'                   |          |
| TAXIWAY SAFETY AREA WIDTH                                   | 118'                    | 171'                    | 79'                    |          |
| TAXIWAY WINGTIP CLEARANCE                                   | 34'                     | 44'                     | 26'                    |          |
| TAXIWAY MARKING                                             | Enhanced                | Enhanced                | Enhanced               |          |
| TAXIWAY LIGHTING                                            | MIRL                    | MIRL                    | MIRL                   |          |
| RUNWAY NAVIGATION AIDS                                      | RNAV GPS (34)           | RNAV GPS (34)           | None                   |          |
| RUNWAY VISUAL AIDS                                          | VOR (34)                | LPV GPS (34R)           | ILS (34R)              |          |
|                                                             | Rotating Beacon         | Rotating Beacon         | Rotating Beacon        |          |
|                                                             | PAPI-4 (16,34)          | PAPI-4 (16,34R)         | PAPI-2 (16R, 34L)      |          |
|                                                             | REIL (16,34)            | REIL (16L,34R)          | Lighted Wind Indicator |          |

| EXIST | DESCRIPTION                                                   | TOP ELEV |
|-------|---------------------------------------------------------------|----------|
| 1     | ARFF/AIRPORT MAINTENANCE                                      | 654.5    |
| 2     | TICKETING/SECURE SCREENING/RENTAL CARS/AIRPORT ADMINISTRATION | 655.3    |
| 3     | RENTAL CAR MAINTENANCE                                        | 670.5    |
| 4     | DEPARTURE HOLDROOM/ LONGTERM GENERAL AVIATION TERMINAL        | 655.0    |
| 5     | CHARTER BUS LOADING                                           | 648.4    |
| 6     | OFFICE BUILDING                                               | 647.0    |
| 7     | OFFICE BUILDING                                               | 655.0    |
| 8     | FEDEX                                                         | 648.0    |
| 9     | AIR TRAFFIC CONTROL TOWER                                     | 793.8    |
| 10    | CONVENTIONAL HANGAR                                           | 663.5    |
| 11    | CONVENTIONAL HANGAR                                           | 665.8    |
| 12    | FBO                                                           | 658.0    |
| 13    | FUEL FARM                                                     | 680.0    |
| 14    | T-HANGAR                                                      | 643.5    |
| 15    | T-HANGAR                                                      | 644.7    |
| 16    | T-HANGAR                                                      | 644.3    |
| 17    | T-HANGAR                                                      | 643.5    |
| 18    | T-HANGAR                                                      | 644.3    |
| 19    | T-HANGAR                                                      | 645.8    |
| 20    | T-HANGAR                                                      | 647.4    |
| 21    | T-HANGAR                                                      | 646.7    |
| 22    | T-HANGAR                                                      | 645.8    |
| 23    | T-HANGAR                                                      | 646.6    |
| 24    | T-HANGAR                                                      | 646.5    |
| 25    | T-HANGAR                                                      | 649.4    |
| 26    | T-HANGAR                                                      | 647.3    |
| 27    | T-HANGAR                                                      | 647.8    |
| 28    | T-HANGAR                                                      | 649.6    |
| 29    | CONVENTIONAL HANGAR                                           | 674.8    |
| 30    | CONVENTIONAL HANGAR                                           | 671.9    |
| 31    | OFFICE BUILDING                                               | 662.4    |
| 32    | T-HANGAR                                                      | 650.7    |
| 33    | CONVENTIONAL HANGAR                                           | 666.6    |
| 34    | CONVENTIONAL HANGAR                                           | 652.5    |
| 35    | T-HANGAR                                                      | 653.1    |
| 36    | CONVENTIONAL HANGAR                                           | 667.4    |
| 37    | CONVENTIONAL HANGAR                                           | 672.6    |
| 38    | CONVENTIONAL HANGAR                                           | 681.7    |
| 39    | CONVENTIONAL HANGAR                                           | 683.3    |
| 40    | CONVENTIONAL HANGAR                                           | 679.8    |
| 41    | GENERAL AVIATION TERMINAL                                     | 679.8    |

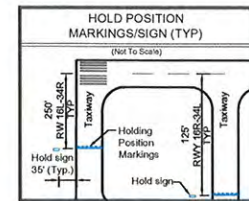
#### GENERAL NOTES:

- HORIZONTAL DATUM: NORTH AMERICAN DATUM 1983 - NAD83;  
VERTICAL DATUM: NORTH AMERICAN DATUM 1988 - NAVD88. DERIVED FROM SURVEY PERFORMED BY KENNEY AERIAL MAPPING, INC., PHOENIX, ARIZONA; PROVIDED BY STANTEC CONSULTING, INC., PHOENIX, ARIZONA
- NO OFZ PENETRATIONS
- SEE SHEETS 8 THROUGH 11 FOR THRESHOLD SITING SURFACE OBJECT PENETRATION DETAILS.
- THE PROPOSED SITE FOR THE FUTURE AIRCRAFT RESCUE FIRE FIGHTING (ARFF) STATION WILL MEET THE REQUIRED EMERGENCY RESPONSE TIME FOR CERTIFICATED FEDERAL AVIATION REGULATION PART 139 COMMERCIAL SERVICE OPERATIONS.
- ALL ELEVATIONS IN NAVD 88.

| AIRPORT DATA                              |                                                              |
|-------------------------------------------|--------------------------------------------------------------|
| OWNER: Mohave County Airport Authority    | AIRPORT NPIAS CODE: P                                        |
| CITY: Bullhead City, Arizona              | COUNTY: Mohave, Arizona                                      |
| RANGE: R 21 W                             | TOWNSHIP: T 32 S                                             |
| LAUGHLIN/BULLHEAD INTERNATIONAL (KIFP)    |                                                              |
| AIRPORT SERVICE LEVEL                     | Commercial (P)                                               |
| AIRPORT REFERENCE CODE                    | C-III                                                        |
| AIRPORT ELEVATION                         | 696.9' MSL                                                   |
| MEAN MAXIMUM TEMPERATURE OF HOTTEST MONTH | 108.2° July                                                  |
| AIRPORT REFERENCE POINT (NAD 83)          | Latitude: 35° 09' 21.572" N<br>Longitude: 114° 33' 33.944" W |
| AIRPORT INSTRUMENT APPROACH               | GPS, VOR                                                     |
| NAVAIDS                                   | Airport Beacon<br>PAPI-4 (16, 34)<br>REIL (16, 34)           |
| GPS AT AIRPORT                            | Yes                                                          |

| ULT | DESCRIPTION                    |
|-----|--------------------------------|
| 101 | AIR CARGO/AIR FREIGHT BUILDING |
| 102 | CONVENTIONAL HANGAR            |
| 103 | CONVENTIONAL HANGAR            |
| 104 | CONVENTIONAL HANGAR            |
| 105 | AIRCRAFT WASH RACK             |
| 106 | T-HANGARS                      |
| 107 | T-HANGARS                      |
| 108 | ARFF                           |
| 109 | AIR CARGO/AIR FREIGHT          |
| 110 | COMMERCIAL TERMINAL            |

| RUNWAY END COORDINATES (NAD 83) |                   |                    |
|---------------------------------|-------------------|--------------------|
| RUNWAY                          | LATITUDE          | LONGITUDE          |
| EXISTING RUNWAY 16              | 35° 09' 58.590" N | 114° 33' 36.739" W |
| EXISTING RUNWAY 34              | 35° 08' 44.519" N | 114° 33' 31.153" W |
| EXISTING RUNWAY 34              | 35° 08' 49.490" N | 114° 33' 31.512" W |
| DISPLACED THRESHOLD             |                   |                    |
| ULTIMATE RUNWAY 34R             | 35° 08' 34.682" N | 114° 33' 30.405" W |
| ULTIMATE RUNWAY 16R             | 35° 09' 19.663" N | 114° 33' 42.246" W |
| ULTIMATE RUNWAY 34L             | 35° 08' 34.254" N | 114° 33' 38.818" W |



FOR APPROVAL BY  
Mohave County Airport Authority

DATE: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Title: \_\_\_\_\_

FAA APPROVAL STAMP



#### LAUGHLIN/BULLHEAD INTERNATIONAL AIRPORT

#### AIRPORT LAYOUT DRAWING

#### BULLHEAD CITY, ARIZONA

PLANNED BY: Chris M. Hagan

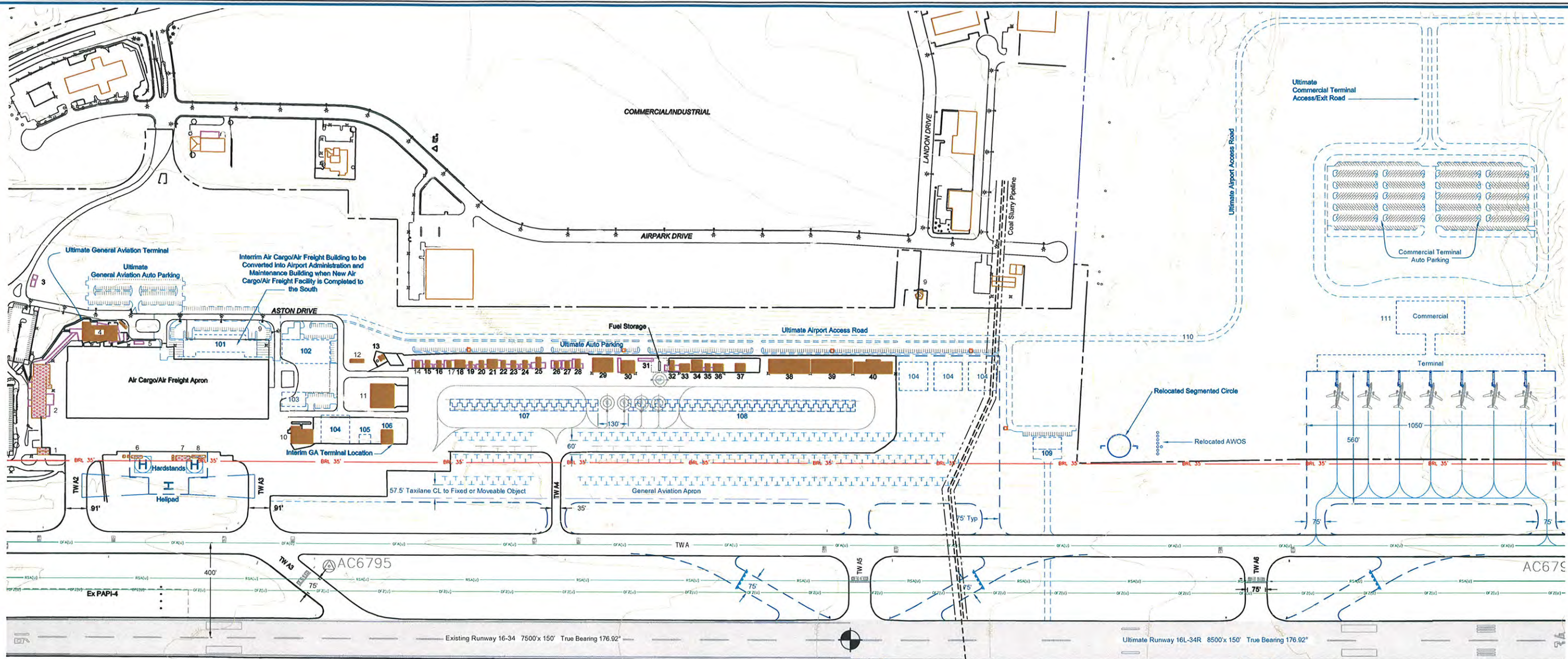
DETAILED BY: Dana L. Hopkins

APPROVED BY: James M. Harris

FEBRUARY 27, 2009 SHEET 1 OF 16

**Coffman Associates**  
Airport Consultants  
www.coffmanassociates.com

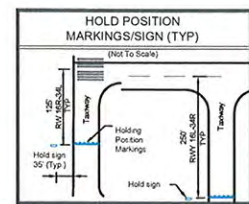




| LEGEND   |          |                                      |
|----------|----------|--------------------------------------|
| EXISTING | ULTIMATE | DESCRIPTION                          |
|          |          | AIRPORT PROPERTY LINE                |
|          |          | SECTION CORNERS                      |
|          |          | AIRPORT REFERENCE POINT (ARP)        |
|          |          | AIRPORT ROTATING BEACON              |
|          |          | AVIGATION EASEMENT                   |
|          |          | BUILDING RESTRICTION LINE            |
|          |          | STRUCTURES ON AIRPORT                |
|          |          | ABANDON/REMOVE                       |
|          |          | STRUCTURE OFF AIRPORT                |
|          |          | FENCING                              |
|          |          | AIRPORT PAVEMENT                     |
|          |          | GLIDESLOPE ANTENNA & EQUIP. SHELTER  |
|          |          | HELICOPTER PARKING                   |
|          |          | HOLD MARKING                         |
|          |          | SURVEY MONUMENT WITH IDENTIFIER      |
|          |          | OBJECT FREE AREA                     |
|          |          | RUNWAY SAFETY AREA                   |
|          |          | OBSTACLE FREE ZONE                   |
|          |          | RUNWAY PROTECTION ZONE               |
|          |          | PAPI-4                               |
|          |          | RUNWAY END IDENTIFIER LIGHTS (REILs) |
|          |          | LIGHTED WINDSOCK                     |
|          |          | TOPOGRAPHY                           |
|          |          | ULTIMATE MALS                        |

| EXISTING BUILDING TABLE |                                                               |          |
|-------------------------|---------------------------------------------------------------|----------|
| EXIST                   | DESCRIPTION                                                   | TOP ELEV |
| 1                       | ARFF/AIRPORT MAINTENANCE                                      | 654.5    |
| 2                       | TICKETING/SECURE SCREENING/RENTAL CARS/AIRPORT ADMINISTRATION | 655.3    |
| 3                       | RENTAL CAR MAINTENANCE                                        | 670.5    |
| 4                       | DEPARTURE HOLDROOM/ LONGTERM GENERAL AVIATION TERMINAL        | 655.0    |
| 5                       | CHARTER BUS LOADING                                           | 648.4    |
| 6                       | OFFICE BUILDING                                               | 647.0    |
| 7                       | OFFICE BUILDING                                               | 655.0    |
| 8                       | FEDEX                                                         | 648.0    |
| 9                       | AIR TRAFFIC CONTROL TOWER                                     | 793.8    |
| 10                      | CONVENTIONAL HANGAR                                           | 663.5    |
| 11                      | CONVENTIONAL HANGAR                                           | 665.8    |
| 12                      | FBO                                                           | 658.0    |
| 13                      | FUEL FARM                                                     | 680.0    |
| 14                      | T-HANGAR                                                      | 643.5    |
| 15                      | T-HANGAR                                                      | 644.7    |
| 16                      | T-HANGAR                                                      | 644.3    |
| 17                      | T-HANGAR                                                      | 643.5    |
| 18                      | T-HANGAR                                                      | 644.3    |
| 19                      | T-HANGAR                                                      | 645.8    |
| 20                      | T-HANGAR                                                      | 647.4    |

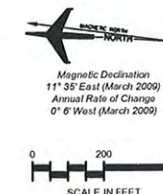
| EXISTING BUILDING TABLE |                           |          |
|-------------------------|---------------------------|----------|
| EXIST                   | DESCRIPTION               | TOP ELEV |
| 21                      | T-HANGAR                  | 646.7    |
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| 27                      | T-HANGAR                  | 647.8    |
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| 29                      | CONVENTIONAL HANGAR       | 674.8    |
| 30                      | CONVENTIONAL HANGAR       | 671.9    |
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| 32                      | T-HANGAR                  | 650.7    |
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| 37                      | CONVENTIONAL HANGAR       | 672.6    |
| 38                      | CONVENTIONAL HANGAR       | 681.7    |
| 39                      | CONVENTIONAL HANGAR       | 683.3    |
| 40                      | CONVENTIONAL HANGAR       | 679.8    |
| 41                      | GENERAL AVIATION TERMINAL | 679.8    |



| PROPOSED BUILDING TABLE |                                |
|-------------------------|--------------------------------|
| ULT                     | DESCRIPTION                    |
| 101                     | AIR CARGO/AIR FREIGHT BUILDING |
| 102                     | CONVENTIONAL HANGAR            |
| 103                     | CONVENTIONAL HANGAR            |
| 104                     | CONVENTIONAL HANGAR            |
| 105                     | AIRCRAFT WASH RACK             |
| 106                     | T-HANGARS                      |
| 107                     | T-HANGARS                      |
| 108                     | ARFF                           |
| 109                     | AIR CARGO/AIR FREIGHT          |
| 110                     | COMMERCIAL TERMINAL            |

#### GENERAL NOTES:

- HORIZONTAL DATUM: NORTH AMERICAN DATUM 1983 - NAD83; VERTICAL DATUM: NORTH AMERICAN DATUM 1988 - NAVD88, DERIVED FROM SURVEY PERFORMED BY KENNEY AERIAL MAPPING, INC., PHOENIX, ARIZONA; PROVIDED BY STANTEC CONSULTING, INC., PHOENIX, ARIZONA
- EXISTING BUILDING ELEVATIONS FROM STANTEC CONSULTING, INC., PHOENIX, ARIZONA.
- THE PROPOSED SITE FOR THE FUTURE AIRCRAFT RESCUE FIRE FIGHTING (ARFF) STATION WILL MEET THE REQUIRED EMERGENCY RESPONSE TIME FOR CERTIFICATED FEDERAL AVIATION REGULATION PART 139 COMMERCIAL SERVICE OPERATIONS.
- THE BRL BOUNDARY LOCATION OCCURS COINCIDENT WITH THE ULTIMATE OBJECT FREE AREA (OFA) ALONG WEST SIDE OF PLANNED RUNWAY 16R-34L.
- ALL ELEVATIONS IN NAVD 88.



#### LAUGHLIN/BULLHEAD INTERNATIONAL AIRPORT

#### TERMINAL AREA DRAWING

#### BULLHEAD CITY, ARIZONA

PLANNED BY: Chris M. Huggins

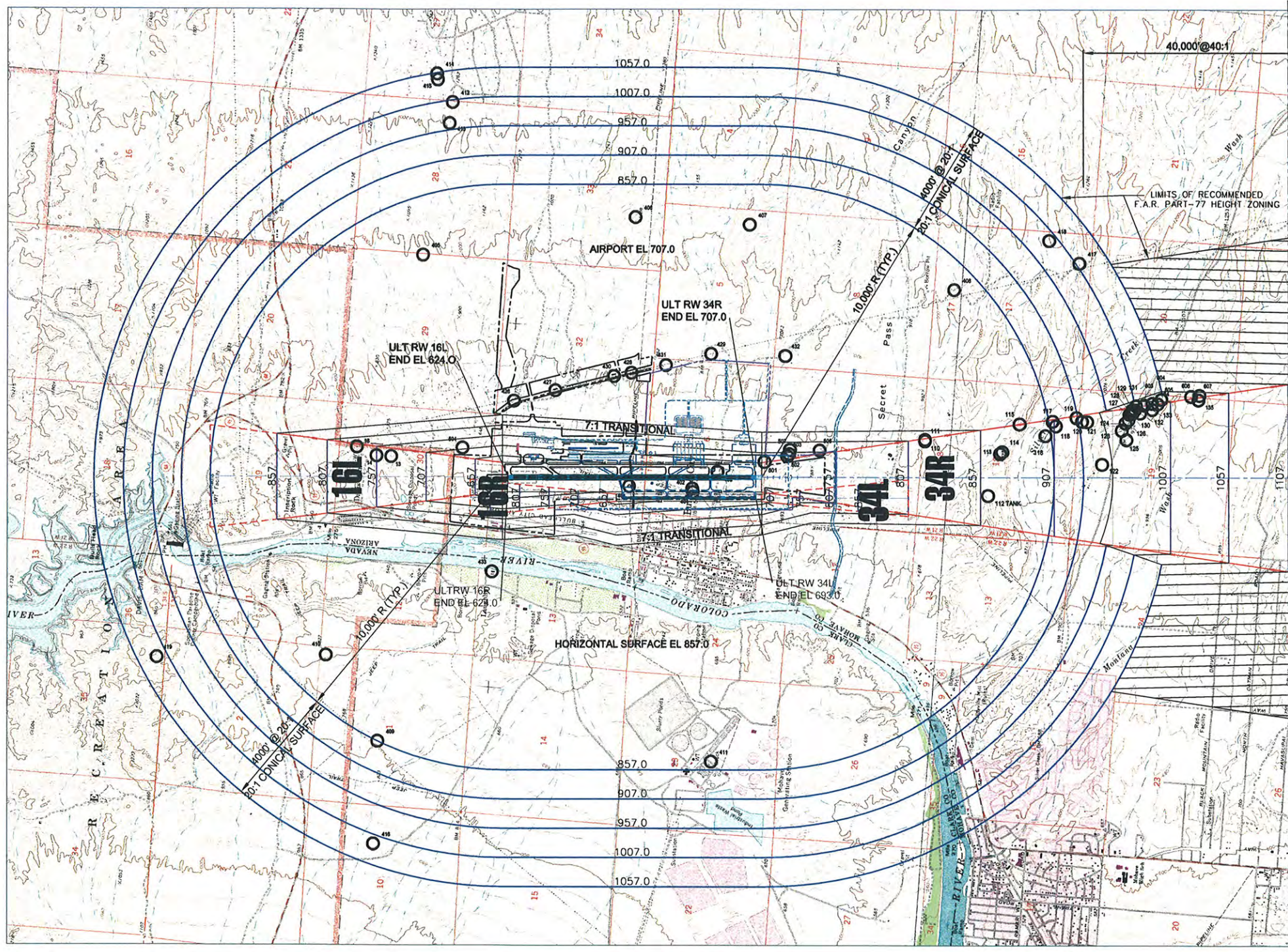
DETAILED BY: Diana L. Hopkins

APPROVED BY: James M. Harris

FEBRUARY 27, 2009 SHEET 2 OF 16







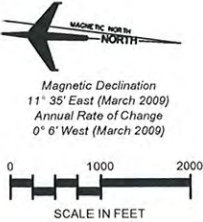
AIRSPACE PLAN

GENERAL NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM 1983 - NAD 83; VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM - NAVD88. FROM STANTEC, PHOENIX, ARIZONA.
2. THE FOLLOWING USGS QUAD MAPS APPLY AS BACKGROUND: DAVIS, DAVIS DAM SE, AND OATMAN.
4. SEE THE INNER PORTION OF THE APPROACH SURFACE DRAWINGS FOR CLOSE-IN OBSTRUCTIONS.

| OBSTRUCTION TABLE |              |               |                      |                        |                            |                                |
|-------------------|--------------|---------------|----------------------|------------------------|----------------------------|--------------------------------|
| Item #            | Description  | Top Elevation | Distance from RW End | Offset from Centerline | Part 77 Surface Penetrated | Remediation                    |
| 401               | WIND SOCK    | 666.7         | 4350                 | 300                    | PRIMARY                    | 4.7 TO REMAIN                  |
| 402               | TERRAIN      | 693.7         | 2174                 | 367                    | PRIMARY                    | 6.7 TO BE REMOVED              |
| 403               | BUSH         | 697.3         | 1311                 | 189                    | PRIMARY                    | 3.3 TO BE REMOVED              |
| 404               | TERRAIN      | 691.8         | 2157                 | 507                    | PRIMARY                    | 4.8 TO BE REMOVED              |
| 405               | TANK         | 1012.2        | -11438               | 7591                   | HORIZONTAL                 | 155 REQUEST AERONAUTICAL STUDY |
| 406               | TERRAIN      | 1184.0        | -4137                | 8883                   | HORIZONTAL                 | 327 REQUEST AERONAUTICAL STUDY |
| 407               | TERRAIN      | 1135.3        | -207                 | 8626                   | HORIZONTAL                 | 278 REQUEST AERONAUTICAL STUDY |
| 408               | TOWER        | 1190.1        | -6791                | 6410                   | HORIZONTAL                 | 333 REQUEST AERONAUTICAL STUDY |
| 409               | TOWER        | 878.6         | -12996               | 9027                   | HORIZONTAL                 | 22 REQUEST AERONAUTICAL STUDY  |
| 410               | TOWER        | 928.6         | -14769               | 6088                   | HORIZONTAL                 | 72 REQUEST AERONAUTICAL STUDY  |
| 411               | SMOKE STACK  | 1222.5        | -1538                | 9714                   | HORIZONTAL                 | 366 REQUEST AERONAUTICAL STUDY |
| 428               | UTILITY POLE | 931.7         | -4277                | 3565                   | HORIZONTAL                 | 75 REQUEST AERONAUTICAL STUDY  |
| 429               | UTILITY POLE | 940.8         | -1566                | 4206                   | HORIZONTAL                 | 84 REQUEST AERONAUTICAL STUDY  |
| 430               | UTILITY POLE | 911.4         | -4877                | 3452                   | HORIZONTAL                 | 54 REQUEST AERONAUTICAL STUDY  |
| 431               | UTILITY POLE | 926.2         | -3083                | 3825                   | HORIZONTAL                 | 69 REQUEST AERONAUTICAL STUDY  |
| 432               | UTILITY POLE | 913.8         | -983                 | 4143                   | HORIZONTAL                 | 57 REQUEST AERONAUTICAL STUDY  |
| 433               | BUILDING     | 877.0         | -9054                | 3221                   | HORIZONTAL                 | 20 REQUEST AERONAUTICAL STUDY  |
| 412               | TERRAIN      | 1297.2        | -10414               | 12810                  | CONICAL                    | 294 REQUEST AERONAUTICAL STUDY |
| 413               | TANK         | 1219.0        | -10519               | 12089                  | CONICAL                    | 299 REQUEST AERONAUTICAL STUDY |
| 414               | BUILDING     | 1320.5        | -10952               | 13784                  | CONICAL                    | 265 REQUEST AERONAUTICAL STUDY |
| 415               | BUILDING     | 1314.4        | -10926               | 13581                  | CONICAL                    | 269 REQUEST AERONAUTICAL STUDY |
| 416               | TOWER        | 1025.1        | -13140               | 12539                  | CONICAL                    | 3.0 REQUEST AERONAUTICAL STUDY |
| 417               | POWER POLE   | 1201.1        | 11067                | 7313                   | CONICAL                    | 189 REQUEST AERONAUTICAL STUDY |
| 418               | TERRAIN      | 1192.2        | 10038                | 8090                   | CONICAL                    | 228 REQUEST AERONAUTICAL STUDY |
| 419               | TERRAIN      | 1035.9        | -20542               | 6170                   | CONICAL                    | 11 REQUEST AERONAUTICAL STUDY  |
| 426               | TOWER        | 878.0         | -8303                | 2612                   | CONICAL                    | 21 REQUEST AERONAUTICAL STUDY  |
| 427               | POLE         | 884.0         | -6890                | 2970                   | CONICAL                    | 27 REQUEST AERONAUTICAL STUDY  |
| 501               | FENCE        | 722.0         | 297                  | 527 R                  | INNER TRANSITIONAL         | 11 TO BE REMOVED               |
| 502               | VEGETATION   | 759.1         | 1054                 | 720 R                  | INNER TRANSITIONAL         | 22 REQUEST AERONAUTICAL STUDY  |
| 503               | TERRAIN      | 774.6         | 1121                 | 795 R                  | INNER TRANSITIONAL         | 27 REQUEST AERONAUTICAL STUDY  |
| 504               | POWER POLE   | 727.1         | 1569                 | 1000 L                 | INNER TRANSITIONAL         | 16 REQUEST AERONAUTICAL STUDY  |
| 506               | VEGETATION   | 733.7         | 2153                 | 917 R                  | INNER TRANSITIONAL         | 3 REQUEST AERONAUTICAL STUDY   |
| 507               | VEGETATION   | 791.8         | 1142                 | 938 R                  | INNER TRANSITIONAL         | 24 REQUEST AERONAUTICAL STUDY  |
| 602               | TREE         | 1025.3        | 13006                | 2443 R                 | TRANSITIONAL               | 45 REQUEST AERONAUTICAL STUDY  |
| 603               | TREE         | 1034.4        | 13287                | 2480 R                 | TRANSITIONAL               | 49 REQUEST AERONAUTICAL STUDY  |
| 604               | BUILDING     | 1031.6        | 13563                | 2533 R                 | TRANSITIONAL               | 37 REQUEST AERONAUTICAL STUDY  |
| 605               | BUILDING     | 1038.1        | 13882                | 2668 R                 | TRANSITIONAL               | 23 REQUEST AERONAUTICAL STUDY  |
| 606               | TERRAIN      | 1054.4        | 14905                | 2770 R                 | TRANSITIONAL               | 21 REQUEST AERONAUTICAL STUDY  |
| 607               | BUILDING     | 1076.7        | 15193                | 2804 R                 | TRANSITIONAL               | 37 REQUEST AERONAUTICAL STUDY  |
| 13                | POWER POLE   | 789.2         | 4026                 | 708 L                  | APPROACH 16L               | 53 REQUEST AERONAUTICAL STUDY  |
| 14                | POWER POLE   | 762.0         | 4526                 | 691 L                  | APPROACH 16L               | 11 REQUEST AERONAUTICAL STUDY  |
| 16                | TOWER        | 808.9         | 5208                 | 1035 L                 | APPROACH 16L               | 38 REQUEST AERONAUTICAL STUDY  |
| 110               | VEGETATION   | 886.9         | 5774                 | 1242 R                 | APPROACH 34R               | 68 REQUEST AERONAUTICAL STUDY  |
| 111               | TERRAIN      | 889.9         | 5774                 | 1290 R                 | APPROACH 34R               | 71 REQUEST AERONAUTICAL STUDY  |
| 112               | TANK         | 926.6         | 7952                 | 620 L                  | APPROACH 34R               | 65 REQUEST AERONAUTICAL STUDY  |
| 113               | VEGETATION   | 980.4         | 8361                 | 810 R                  | APPROACH 34R               | 110 REQUEST AERONAUTICAL STUDY |
| 114               | TERRAIN      | 980.6         | 8435                 | 874 R                  | APPROACH 34R               | 109 REQUEST AERONAUTICAL STUDY |
| 115               | TERRAIN      | 979.0         | 9025                 | 1826 R                 | APPROACH 34R               | 96 REQUEST AERONAUTICAL STUDY  |
| 116               | UTILITY POLE | 916.0         | 9905                 | 1433 R                 | APPROACH 34R               | 16 REQUEST AERONAUTICAL STUDY  |
| 117               | BUILDING     | 960.6         | 10150                | 1918 R                 | APPROACH 34R               | 55 REQUEST AERONAUTICAL STUDY  |
| 118               | VEGETATION   | 938.5         | 10260                | 1759 R                 | APPROACH 34R               | 30 REQUEST AERONAUTICAL STUDY  |
| 119               | TERRAIN      | 961.7         | 10966                | 2043 R                 | APPROACH 34R               | 36 REQUEST AERONAUTICAL STUDY  |
| 120               | VEGETATION   | 959.6         | 11154                | 1914 R                 | APPROACH 34R               | 29 TSS CLEAR; NAR              |
| 121               | VEGETATION   | 963.0         | 11328                | 1900 R                 | APPROACH 34R               | 28 TSS CLEAR; NAR              |
| 122               | BUILDING     | 979.7         | 11837                | 446 R                  | APPROACH 34R               | 32 TSS CLEAR; NAR              |
| 123               | POWER POLE   | 1001.2        | 12511                | 1605 R                 | APPROACH 34R               | 36 TSS CLEAR; NAR              |
| 124               | SIGN         | 995.5         | 12640                | 1856 R                 | APPROACH 34R               | 27 TSS CLEAR; NAR              |
| 125               | TREE         | 1004.8        | 12674                | 1288 R                 | APPROACH 34R               | 36 TSS CLEAR; NAR              |
| 126               | BUILDING     | 997.7         | 12747                | 1970 R                 | APPROACH 34R               | 27 REQUEST AERONAUTICAL STUDY  |
| 127               | POWER POLE   | 1029.1        | 12777                | 2159 R                 | APPROACH 34R               | 58 REQUEST AERONAUTICAL STUDY  |
| 128               | TREE         | 1006.3        | 12848                | 2176 R                 | APPROACH 34R               | 33 REQUEST AERONAUTICAL STUDY  |
| 129               | TREE         | 1010.4        | 12874                | 2306 R                 | APPROACH 34R               | 37 REQUEST AERONAUTICAL STUDY  |
| 130               | TREE         | 1029.9        | 12894                | 2214 R                 | APPROACH 34R               | 56 REQUEST AERONAUTICAL STUDY  |
| 131               | BUILDING     | 1013.5        | 12943                | 2311 R                 | APPROACH 34R               | 37 REQUEST AERONAUTICAL STUDY  |
| 132               | TREE         | 1024.4        | 13142                | 2199 R                 | APPROACH 34R               | 44 REQUEST AERONAUTICAL STUDY  |
| 133               | TREE         | 1023.0        | 13562                | 2319 R                 | APPROACH 34R               | 32 REQUEST AERONAUTICAL STUDY  |
| 134               | BUILDING     | 1031.8        | 13755                | 2516 R                 | APPROACH 34R               | 36 REQUEST AERONAUTICAL STUDY  |
| 135               | BUILDING     | 1076.6        | 15158                | 2648 R                 | APPROACH 34R               | 46 REQUEST AERONAUTICAL STUDY  |

ALL ELEVATIONS AND DISTANCE MEASUREMENTS IN FEET  
ALL APPROACH SURFACE OFFSETS DESCRIBED AS RIGHT (R) OR LEFT (L) OF THE EXTENDED RUNWAY CENTERLINE AS SEEN FROM APPROACHING AIRCRAFT  
ALL PRIMARY, HORIZONTAL, AND CONICAL SURFACE OFFSETS MEASURED FROM THE END OF RUNWAY 34R.



LAUGHLIN/BULLHEAD INTERNATIONAL AIRPORT  
AIRPORT AIRSPACE DRAWING I  
BULLHEAD CITY, ARIZONA

PLANNED BY: Chris M. Huggins  
DETAILED BY: Diana L. Hopkins  
APPROVED BY: James M. Harris

FEBRUARY 27, 2009 SHEET 3 OF 16

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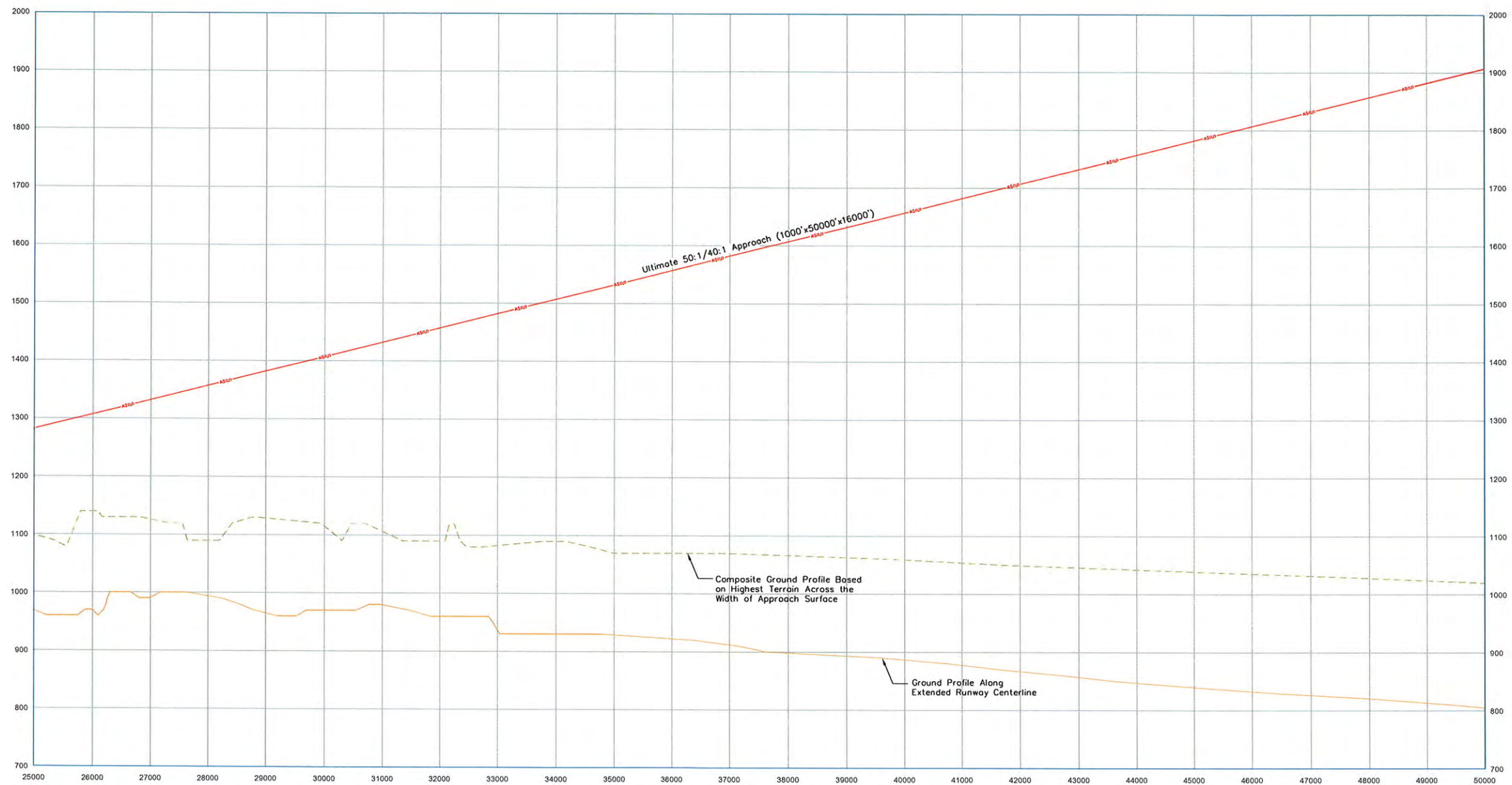










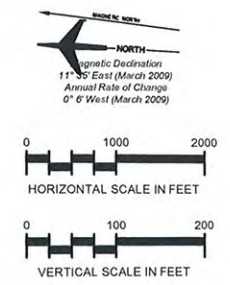


RUNWAY 34R APPROACH PROFILE

| EXISTING RW 34 OBSTRUCTION TABLE |             |               |                      |                        |             |             |
|----------------------------------|-------------|---------------|----------------------|------------------------|-------------|-------------|
| No.                              | Description | Top Elevation | Distance from RW End | Offset from Centerline | Penetration | Remediation |
| -                                | NONE FOUND  | -             | -                    | -                      | -           | -           |

| ULTIMATE RW 34R OBSTRUCTION TABLE |             |               |                      |                        |             |             |
|-----------------------------------|-------------|---------------|----------------------|------------------------|-------------|-------------|
| No.                               | Description | Top Elevation | Distance from RW End | Offset from Centerline | Penetration | Remediation |
| -                                 | NONE FOUND  | -             | -                    | -                      | -           | -           |

GENERAL NOTES:  
1. HORIZONTAL DATUM: NORTH AMERICAN DATUM 1983 - NAD83; VERTICAL DATUM: NORTH AMERICAN DATUM 1988 - NAVD88;  
FROM STANTEC, PHOENIX, ARIZONA.



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LAUGHLIN/BULLHEAD INTERNATIONAL AIRPORT

AIRPORT AIRSPACE PROFILE

RUNWAY 34R

BULLHEAD CITY, ARIZONA

PLANNED BY: Chris M. Huginn

DETAILED BY: Diana L. Hopkins

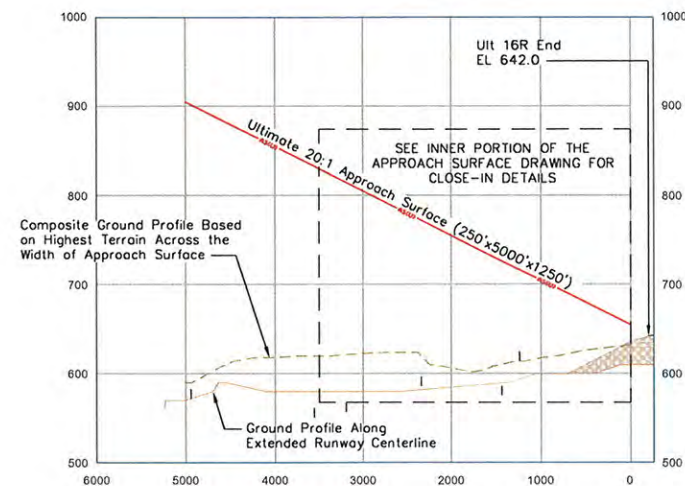
APPROVED BY: James M. Harris

FEBRUARY 27, 2009

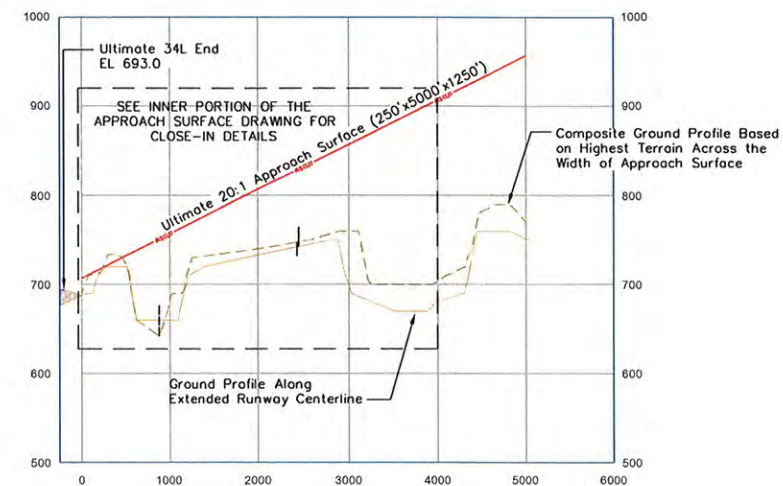
SHEET 6 OF 16

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RUNWAY 16R APPROACH PROFILE



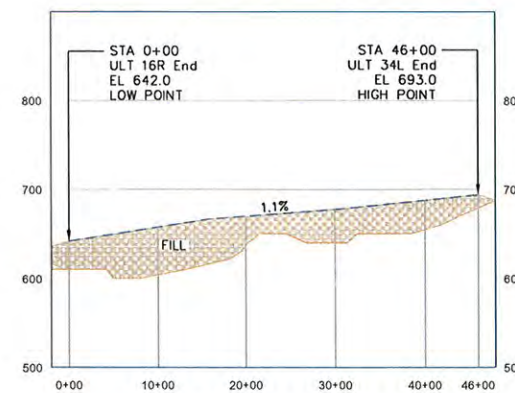
RUNWAY 34L APPROACH PROFILE

| ULTIMATE RW 16R OBSTRUCTION TABLE |             |               |                      |                        |             |             |
|-----------------------------------|-------------|---------------|----------------------|------------------------|-------------|-------------|
| Item                              | Description | Top Elevation | Distance from RW End | Offset from Centerline | Penetration | Remediation |
| -                                 | NONE FOUND  |               |                      |                        |             |             |

| ULTIMATE RW 34L OBSTRUCTION TABLE |                                                                           |               |                      |                        |             |             |
|-----------------------------------|---------------------------------------------------------------------------|---------------|----------------------|------------------------|-------------|-------------|
| Item                              | Description                                                               | Top Elevation | Distance from RW End | Offset from Centerline | Penetration | Remediation |
| -                                 | SEE SHEET 11 OF 15 FOR INNER PORTION OF THE APPROACH SURFACE OBSTRUCTIONS | -             | -                    | -                      | -           | -           |

GENERAL NOTES:

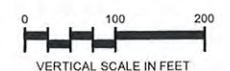
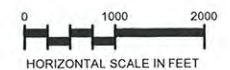
- HORIZONTAL DATUM: NORTH AMERICAN DATUM 1983 - NAD83;  
VERTICAL DATUM: NORTH AMERICAN DATUM 1988 - NAVD88;  
FROM STANTEC, PHOENIX, ARIZONA.
- SEE THE INNER PORTION OF THE APPROACH SURFACE DRAWINGS FOR CLOSE-IN OBSTRUCTIONS.



RUNWAY 16R-34L CENTERLINE PROFILE



Magnetic Declination:  
11° 38' East (March 2009)  
Annual Rate of Change:  
0° 6' West (March 2009)



LAUGHLIN/BULLHEAD INTERNATIONAL AIRPORT  
AIRPORT AIRSPACE PROFILES  
RUNWAY 16R-34L  
BULLHEAD CITY, ARIZONA

PLANNED BY: Chris M. Huggins  
DETAILED BY: Diana L. Hopkins  
APPROVED BY: James M. Harris

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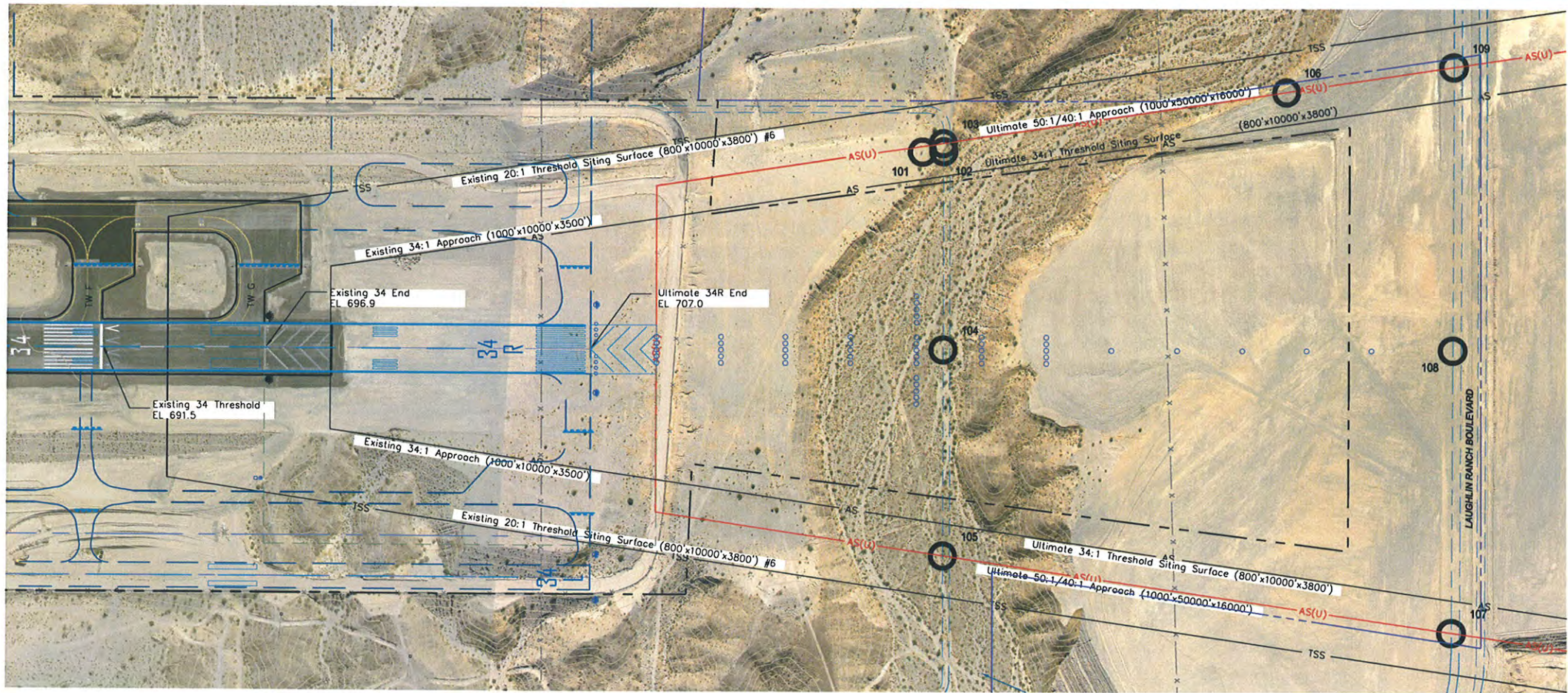
FEBRUARY 27, 2009 SHEET 7 OF 16

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RUNWAY 34R PLAN

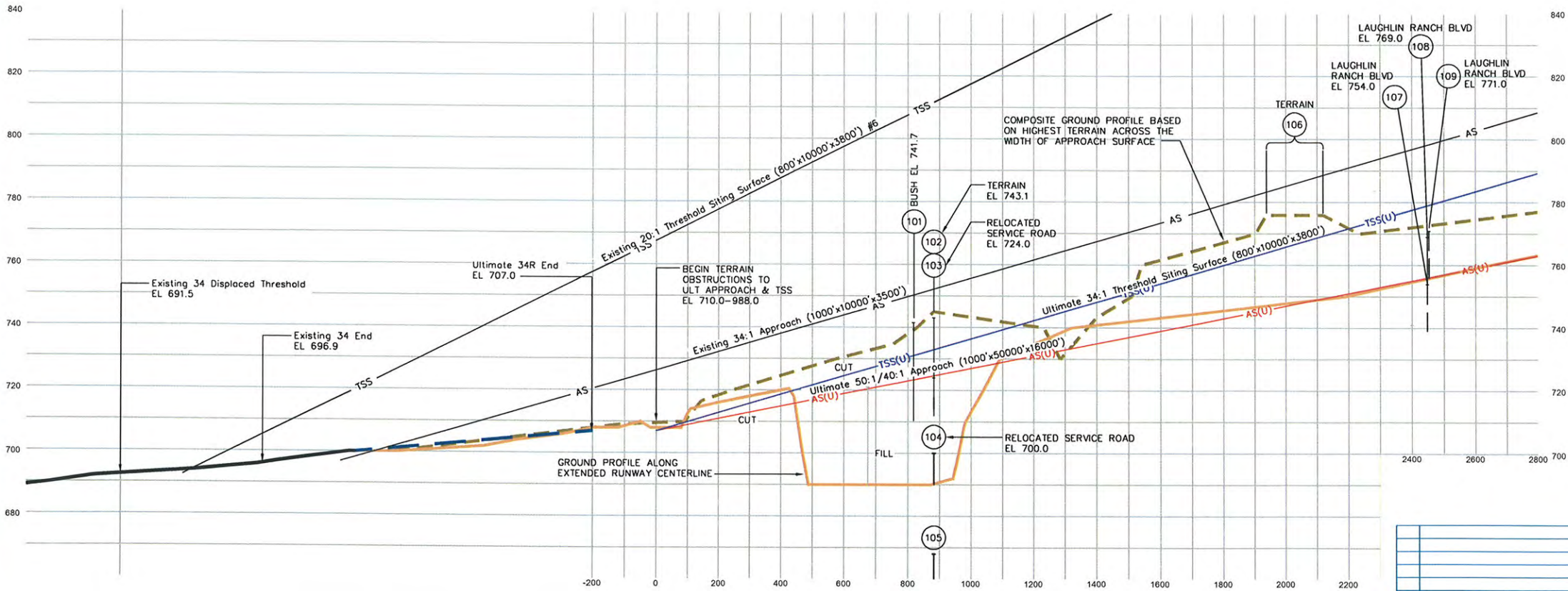
| EXISTING RUNWAY 34 OBSTRUCTION TABLE |             |               |                      |                        |                      |                 |
|--------------------------------------|-------------|---------------|----------------------|------------------------|----------------------|-----------------|
| Item                                 | Description | Top Elevation | Distance from RW End | Offset from Centerline | Approach Penetration | TSS Penetration |
|                                      | NONE FOUND  |               |                      |                        |                      |                 |

| ULTIMATE RUNWAY 34R OBSTRUCTION TABLE |                     |               |                      |                        |                      |                 |
|---------------------------------------|---------------------|---------------|----------------------|------------------------|----------------------|-----------------|
| Item                                  | Description         | Top Elevation | Distance from RW End | Offset from Centerline | Approach Penetration | TSS Penetration |
| 101                                   | VEGETATION          | 741.7         | 1518                 | 607 R                  | 18                   | 11              |
| 102                                   | TERRAIN             | 743.1         | 1583                 | 0                      | 18                   | 11              |
| 106                                   | TERRAIN             | 776.7         | 2138                 | 792 R                  | 31                   | 13              |
| 108                                   | LAUGHLIN RANCH BLVD | 769.0         | 3148                 | 0                      | 3                    | CLEAR           |
| 109                                   | LAUGHLIN RANCH BLVD | 771.0         | 3153                 | 869 R                  | 5                    | CLEAR           |
|                                       | TERRAIN             | VARIES        | SEE PROFILE VIEW     | VARIES                 | VARIES               | VARIES          |
| 141                                   | TERRAIN             | 718.3         | 582                  | 319 L                  | 4                    | <1              |
| 142                                   | TERRAIN             | 720.6         | 626                  | 34 L                   | 5                    | 1               |
| 143                                   | TERRAIN             | 725.4         | 712                  | 431 R                  | 8                    | 3               |

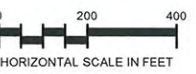
NAR - NO ACTION REQUIRED

GENERAL NOTES:

- HORIZONTAL DATUM: NORTH AMERICAN DATUM 1983 - NAD83;  
VERTICAL DATUM: NORTH AMERICAN DATUM 1988 - NAVD88;  
FROM STANTEC, PHOENIX, ARIZONA.
- ALL DISTANCE MEASUREMENTS IN FEET.



RUNWAY 34R PROFILE



LAUGHLIN/BULLHEAD INTERNATIONAL AIRPORT  
INNER PORTION OF THE APPROACH  
SURFACE DRAWING RUNWAY 34R  
BULLHEAD CITY, ARIZONA

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PLANNED BY: Chris M. Higgins  
DETAILED BY: Diana L. Hopkins  
APPROVED BY: James M. Harris  
FEBRUARY 27, 2009 SHEET 9 OF 16





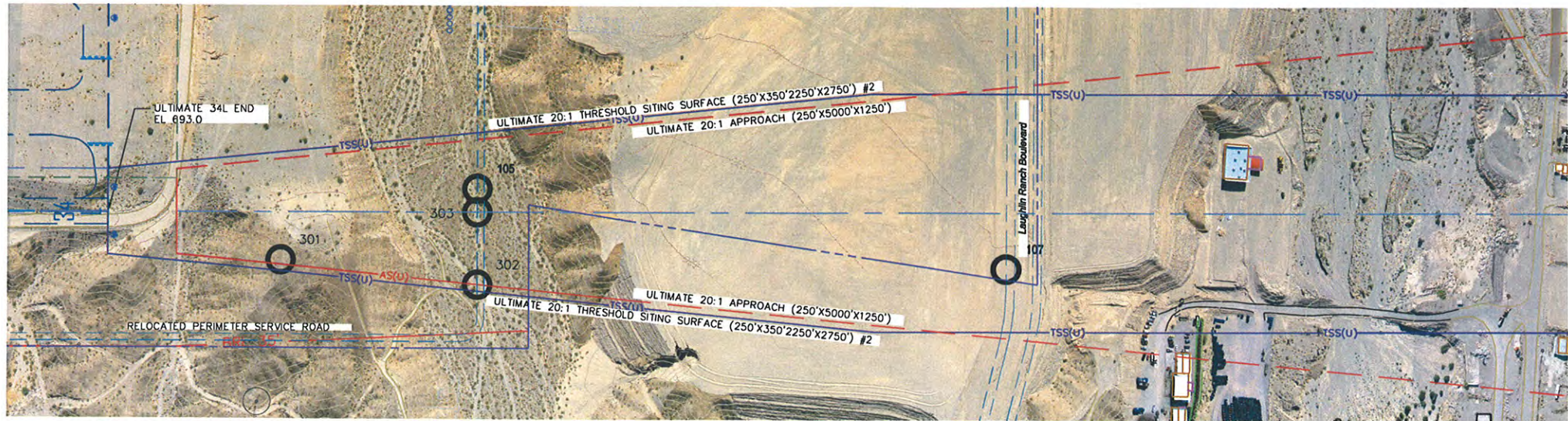


| ULTIMATE RUNWAY 16R OBSTRUCTION TABLE |             |               |                      |                        |             |             |
|---------------------------------------|-------------|---------------|----------------------|------------------------|-------------|-------------|
| Item                                  | Description | Top Elevation | Distance from RW End | Offset from Centerline | Penetration | Remediation |
|                                       | NONE FOUND  |               |                      |                        |             |             |

2. ALL DISTANCE MEASUREMENTS IN FEET.







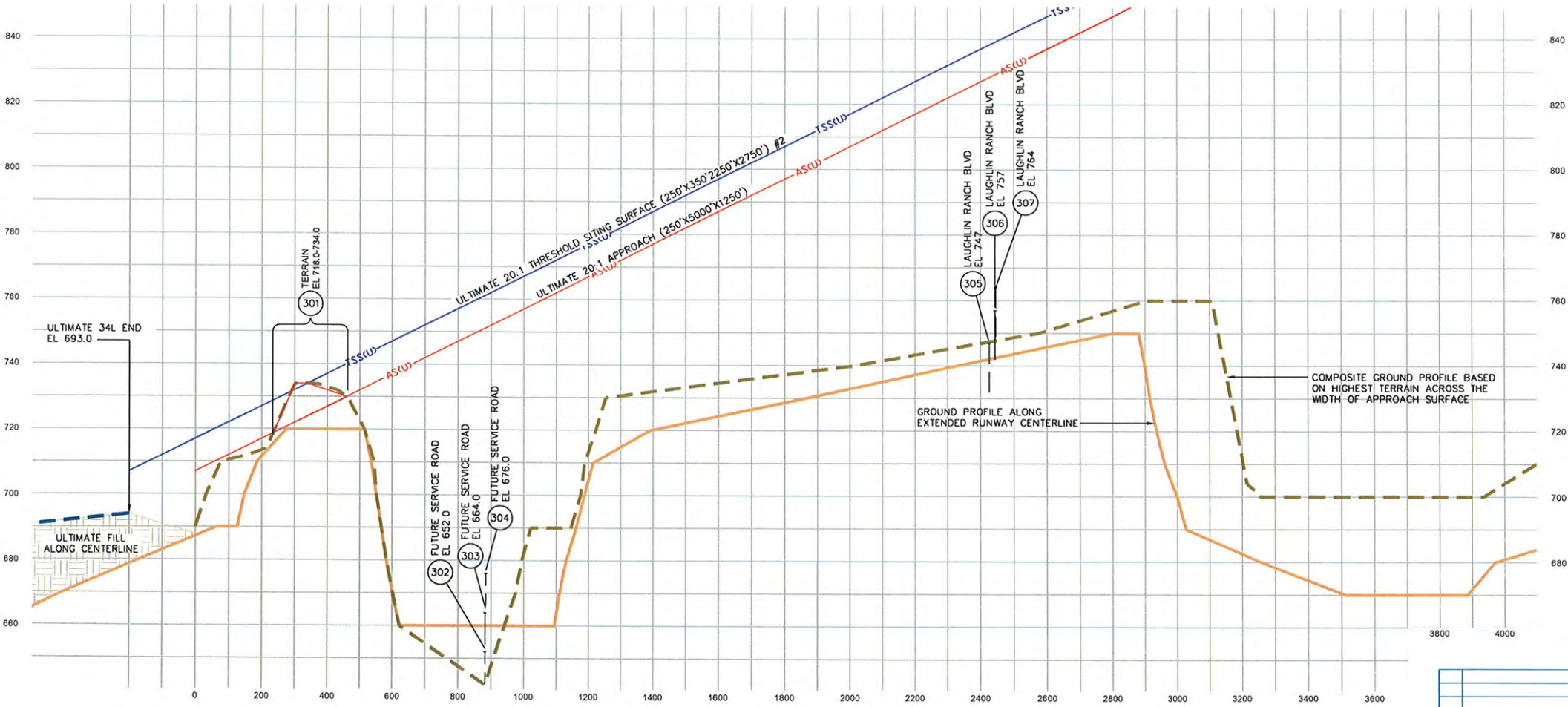
RUNWAY 34L PLAN

| ULTIMATE RUNWAY 34L OBSTRUCTION TABLE |             |               |                      |                        |                           |                      |                            |
|---------------------------------------|-------------|---------------|----------------------|------------------------|---------------------------|----------------------|----------------------------|
| Item                                  | Description | Top Elevation | Distance from RW End | Offset from Centerline | 20:1 Approach Penetration | 20:1 TSS Penetration | Remediation                |
| 301                                   | TERRAIN     | 734.0         | 503                  | 145 L                  | 26                        | 16                   | REQUEST AERONAUTICAL STUDY |
|                                       | TERRAIN     | VARIES        | VARIES               | VARIES                 | VARIES                    | VARIES               | REQUEST AERONAUTICAL STUDY |

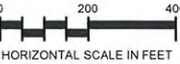
ALL DISTANCE MEASUREMENTS IN FEET

GENERAL NOTES:

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM 1983 - NAD83;  
VERTICAL DATUM: NORTH AMERICAN DATUM 1988 - NAVD88;  
FROM STANTEC, PHOENIX, ARIZONA.
2. ALL DISTANCE MEASUREMENTS IN FEET.



RUNWAY 34L PROFILE



LAUGHLIN/BULLHEAD INTERNATIONAL AIRPORT  
INNER PORTION OF THE APPROACH  
SURFACE DRAWING RUNWAY 34L  
BULLHEAD CITY, ARIZONA

| No. | REVISIONS | DATE | BY | APP'D. |
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PLANNED BY: Chris M. Huggins  
DETAILED BY: Diana L. Hopkins  
APPROVED BY: James M. Morris

FEBRUARY 27, 2009 SHEET 11 OF 16



























**KANSAS CITY**  
**(816) 524-3500**

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