CONSTRUCTION PLANS FOR

COOLIDGE MUNICIPAL AIRPORT

COOLIDGE, ARIZONA

REHABILITATE TAXIWAY B & B4

FAA PROJECT NO. AIP 3-04-0011-010-2015 (DESIGN)
ADOT PROJECT NO. E6F2K (DESIGN)
COOLIDGE PROJECT NO. AIP-01-2016
ISSUED FOR BID
JULY 6, 2016

GENERAL PROJECT DESCRIPTION:

REHABILITATE AND REALIGN TAXIWAY B & B4

LOCATION MAP
N.T.S.

COORDINATION LIST

OWNER/DEVELOPER:

CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228
520-723-6075
ATTN: RICK MILLER, GROWTH MANAGEMENT DIRECTOR

ENGINEER:

KIMLEY-HORN AND ASSOCIATES, INC.
7740 N 16TH ST, SUITE 300
PHOENIX, AZ 85008
602-678-3420
ATTN: BRIAN GALL

5370 KIETZKE LANE, SUITE 201
RENO, NV 89511
775-787-7552
ATTN: ERIC LOVEJOY
WWW.KIMLEY-HORN.COM

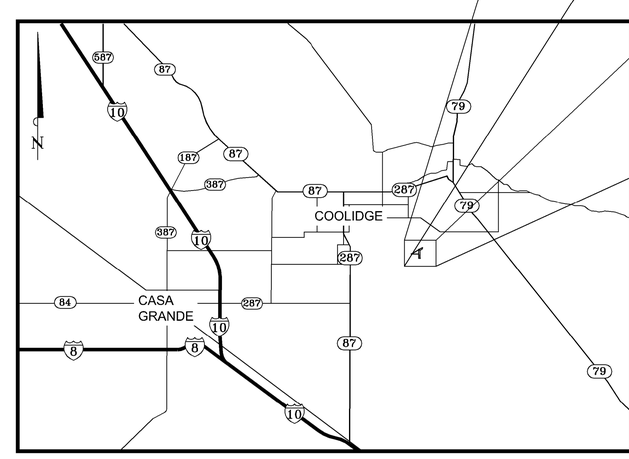
BENCHMARK:

HORIZONTAL DATUM IS NAD83 AND THE VERTICAL DATUM IS NAVD88. ALL COORDINATES IN U.S. SURVEY FEET.

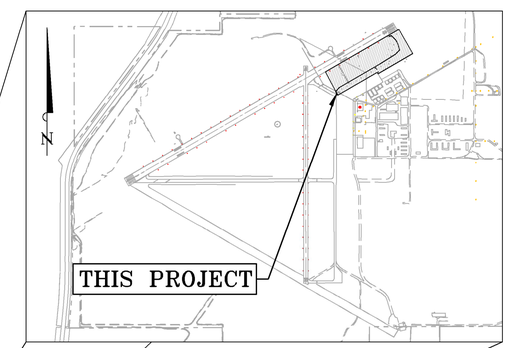
BASIS OF BEARING:

BASIS OF BEARING FOR THIS PROJECT IS A STRAIGH LINE BETWEEN A 1" BRASS CAPPED PIN AT THE SOUTH-WEST END OF RUNWAY 5-23 TO A 1" BRASS CAPPED PIN AT THE NORTH-EAST END OF RUNWAY 5-23. SAID BEARING BEING S 59°58'22" W.

BASIS OF ELEVATION FOR THIS PROJECT IS PRIMARY CONTROL STATION "P08A", POINT NO. 1 SAID ELEVATION BEING 1566.72 INT. FT. (NAVID 88)



VICINITY MAP
N.T.S.



NO.	REVISION	DATE

Kimley»Horn
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7740 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

Registered Professional Engineer (Civil) CERTIFICATE NO. 53933 BRIAN LEVI GALL Date Signed 07/6/16 ARIZONA U.S.A. Exp. Date 12/31/18

SCALE (H): N/A
SCALE (V): N/A
DESIGNED BY: BLG
DRAWN BY: BLR
CHECKED BY: BLG
DATE: 07/01/16

COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
COVER SHEET

PROJECT NO.
191593007

DRAWING NAME
191593007CV.dwg

C1.1

SHEET NO. 1 OF 45

K:\PHX_Aviation\191593007 Coolidge OnCall Task4\CADD\191593007CV.dwg Jul 06, 2016 brandon.robinson
XREFS: X191593007TB x191593007VS x191593007VE
THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

GENERAL NOTES

1. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULARS, STANDARDS AND RECOMMENDATIONS FOR AIRPORT DESIGN, INCLUDING: 150/5370, (LATEST EDITION) STANDARDS FOR SPECIFYING CONSTRUCTION FOR AIRPORTS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL COOLIDGE MUNICIPAL AIRPORT PROPERTY, AND SHALL PROTECT FROM DAMAGE OR DISTURBANCE, ALL LAND MONUMENTS AND PROPERTY MARKERS. IF DAMAGED OR INJURED DURING THE WORK, THE CONTRACTOR SHALL RESTORE, AT HIS OWN EXPENSE, SUCH PROPERTY TO A CONDITION EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE OR INJURY WAS DONE, BY REPAIRING, REBUILDING OR RESTORING AS DIRECTED BY AND TO THE SATISFACTION OF THE ENGINEER.

3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE SURVEYOR PROVIDING THE CONSTRUCTION LAYOUT TO COMPARE THE SITE CONDITIONS WITH THE PLANS AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES OBSERVED. SHOULD ANY GRADE OR DESIGN INDICATED ON THE PLANS BE SUSPECT, THE ENGINEER SHALL BE NOTIFIED OF SAID AREA AT LEAST TWENTY-FOUR HOURS BEFORE CONSTRUCTION IS SCHEDULED TO BEGIN ON THE AFFECTED AREA. IF THE ENGINEER IS NOT NOTIFIED PRIOR TO THE START OF CONSTRUCTION OF THE AFFECTED AREA, ANY DISCREPANCIES SHALL BE DEEMED TO BE THE RESPONSIBILITY OF THE CONTRACTOR AND/OR SURVEYOR AND WILL NOT BE PAID FOR BY CHANGE ORDER.

4. ACCESS/HAUL ROUTES – HAUL ROUTES ON THE AIRPORT SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER OR ONSITE AIRPORT REPRESENTATIVE. ON-SITE HAUL ROUTES WILL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE. DRAINAGE, GRADING OR OTHER WORK NECESSARY TO CONSTRUCT HAUL ROUTES ON THE AIRPORT IS THE CONTRACTOR'S RESPONSIBILITY AND MUST BE APPROVED BY THE ENGINEER PRIOR TO ANY WORK. THE CONTRACTOR SHALL NOT ENTER ONTO ANY AREA OUTSIDE OF THE LIMITS OF GRADING, STAGING AREAS OR DESIGNATED ACCESS/HAUL ROUTES WITHOUT THE WRITTEN APPROVAL BY THE ENGINEER.

5. STAGING AREA – A CONTRACTORS STAGING AREA IS PROVIDED AS SHOWN ON THE PROJECT LAYOUT PLAN. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WITH THE COOLIDGE MUNICIPAL AIRPORT ON THE PRECISE LOCATION AND LIMITS OF ANY ADDITIONAL STAGING AREAS IF NEEDED.

6. EXISTING UTILITY LOCATIONS, AS SHOWN ON THESE PLANS, WERE COMPILED BASED ON INFORMATION AVAILABLE TO THE ENGINEER. UTILITY LOCATIONS ARE APPROXIMATE AND ARE NOT INTENDED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL NOTIFY THE BLUE STAKE CENTER (1-800-782-5348) AND THE CITY OF COOLIDGE AT LEAST 48 HOURS IN ADVANCE BEFORE DIGGING.

7. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES AND THE PROTECTION AND REPAIR OF DAMAGE TO THEM. THE CONTRACTOR SHALL POTHOLE IF NECESSARY IN AREAS OF SHALLOW OR CONGESTED UTILITIES TO VERIFY EXACT LOCATIONS OF UTILITIES AS REQUIRED DURING CONSTRUCTION ACTIVITIES. ANY UTILITIES ENCOUNTERED WHICH ARE NOT SHOWN SHALL BE NOTED ON THE AS-BUILTS. COST OF POTHOLING IS INCIDENTAL TO THE CONTRACT.

8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE SURVEYOR PROVIDING THE CONSTRUCTION LAYOUT TO COMPARE THE SITE CONDITIONS WITH THE PLANS AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES OBSERVED. SHOULD ANY GRADE OR DESIGN INDICATED ON THE PLANS BE SUSPECT, THE ENGINEER SHALL BE NOTIFIED OF SAID AREA AT LEAST TWENTY-FOUR HOURS BEFORE CONSTRUCTION IS SCHEDULED TO BEGIN ON THE AFFECTED AREA. IF THE ENGINEER IS NOT NOTIFIED PRIOR TO THE START OF CONSTRUCTION OF THE AFFECTED AREA, ANY DISCREPANCIES SHALL BE DEEMED TO BE THE RESPONSIBILITY OF THE CONTRACTOR AND/OR SURVEYOR.

9. SAWCUTTING OF PAVEMENT SHALL BE REQUIRED FOR PAVEMENT REMOVAL IN EVERY LOCATION WHERE NEW PAVEMENT MUST MATCH EXISTING PAVEMENT.

10. LOCATION OF THE CONTRACTOR'S ENTRANCES, HAUL ROUTS AND STAGING AREA SHALL BE AS SHOWN ON SHEETS C2.1 – CONSTRUCTION PHASING PLAN & C2.2 – CONSTRUCTION PHASING PLAN.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY LIGHTING AND/OR JUMPER CABLES AS APPROVED BY CITY OF COOLIDGE PERSONNEL TO MAINTAIN LIGHTING ON AREAS NOT CLOSED FOR CONSTRUCTION. THIS WORK SHALL BE INCIDENTAL TO CONSTRUCTION. JUMPER CABLES SHALL BE INSTALLED IN SUCH A MANNER TO PREVENT VEHICLES OR AIRCRAFT FROM PASSING OVER THEM AND IN A MANNER APPROVED BY THE AIRPORT.

12. THE CONTRACTOR SHALL PROTECT ALL EXISTING HAUL ROUTES, STORM DRAINS, SEWERS, CATCH BASINS, ELECTRIC LINES, TELEPHONE LINES AND MISCELLANEOUS UTILITIES WITHIN THE WORK ZONE. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

13. THE CONTRACTOR SHALL SUBMIT A SAFETY PLAN TO THE AIRPORT AND THE ENGINEER AT LEAST 72 HOURS BEFORE THE CLOSURE OF ANY PAVEMENTS. BARRICADES SHALL HAVE A MINIMUM SPACING OF 10 FEET AND A MAXIMUM HEIGHT OF 3 FEET, SEE TEMPORARY AIRFIELD BARRICADE DETAIL ON SHEETS C2.1 – CONSTRUCTION PHASING PLAN & C2.2 – CONSTRUCTION PHASING PLAN. BARRICADE PLACEMENT AND OPERATION SHALL BE INSPECTED EACH DAY AND INOPERATIVE LIGHTS OR DAMAGED BARRICADES SHALL IMMEDIATELY REPLACED.

14. TRESPASSING ON PROPERTIES NOT OWNED BY COOLIDGE MUNICIPAL AIRPORT OR ON COOLIDGE MUNICIPAL AIRPORT PROPERTIES OUTSIDE THE LIMITS OF WORK SHALL NOT BE ALLOWED.

15. THE CONTRACTOR SHALL PROTECT ALL EXISTING PAVEMENTS. AS DETERMINED BY THE ENGINEER AND/OR THE AIRPORT, PAVEMENTS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S OWN EXPENSE.

16. THE CONTRACTOR SHALL GIVE COOLIDGE MUNICIPAL AIRPORT 72 HOURS NOTICE BEFORE BEGINNING WORK IN ANY AREA.

17. THE CONTRACTOR SHALL REMOVE ALL DEBRIS FROM AIRFIELD PAVEMENTS BEFORE OPENING THE AREA TO AIRCRAFT. VACUUM SWEEPERS ARE REQUIRED.

18. THE CONTRACTOR SHALL PROVIDE 24 HOUR ACCESS TO EMERGENCY VEHICLES THROUGHOUT THE CONSTRUCTION AREA.

19. WORK OUTSIDE THE RUNWAY/TAXIWAY CLEAR ZONES MAY BE PERFORMED DURING DAYLIGHT HOURS AND WITHOUT RUNWAY/TAXIWAY CLOSURE UPON APPROVAL OF COOLIDGE MUNICIPAL AIRPORT.

20. CONSTRUCTION CREWS SHALL GIVE WAY TO AIRCRAFT. ACCESS TO INDICATED AREAS SHALL BE MAINTAINED AND ALL CLOSURES COORDINATED WITH ELOY MUNICIPAL AIRPORT A MINIMUM OF THREE WORKING DAYS PRIOR TO CLOSURE.

21. REFER TO ADVISORY CIRCULAR AC-150/5370-2 (LATEST EDITION) FOR OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.

22. REFER TO ADVISORY CIRCULAR AC-150/5210-5 (LATEST EDITION) FOR PAINTING, MARKING & LIGHTING OF VEHICLES ON AN AIRPORT.

23. THE CONTRACTOR SHALL PROTECT ALL EXISTING EQUIPMENT, STORM DRAINS, SEWER, CATCH BASINS, ELECTRIC LINES, PULLBOXES, COMMUNICATION LINES, LIGHTS, SIGNS AND MISCELLANEOUS UTILITIES WITHIN THE WORK ZONE. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE.

24. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULARS, STANDARDS AND RECOMMENDATIONS FOR AIRPORT DESIGN, INCLUDING: 150/5370-10A, STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS.

25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL CITY OF COOLIDGE/COOLIDGE MUNICIPAL AIRPORT PROPERTY AND ADJACENT PROPERTIES AND SHALL PROTECT CAREFULLY FROM DAMAGE OR DISTURBANCE ALL LAND MONUMENTS AND PROPERTY MARKERS. IF DAMAGE OR INJURY TO PROPERTY DOES OCCUR DURING THE WORK, THE CONTRACTOR SHALL RESTORE, AT THE CONTRACTOR'S OWN EXPENSE, SUCH PROPERTY TO A CONDITION EQUAL TO OR BETTER THAN THAT EXISTING BEFORE SUCH DAMAGE OR INJURY WAS DONE BY REPAIRING, REBUILDING OR RESTORING AS DIRECTED.

ABBREVIATIONS

ABAND	ABANDONED
ABC	AGGREGATE BASE COURSE
AC	ADVISORY CIRCULAR OR ASPHALTIC CONCRETE
ACI	AMERICAN CONCRETE INSTITUTE
AHD	AHEAD
AIP	AIRPORT IMPROVEMENT PROGRAM
ALP	AIRPORT LAYOUT PLAN
ALS	APPROACH LIGHT SYSTEM
AOA	AIR OPERATIONS AREA
APPROX	APPROXIMATE
APS	ARIZONA PUBLIC SERVICE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATCT	AIR TRAFFIC CONTROL TOWER
AWOS	AUTOMATED WEATHER OBSERVATION SYSTEM
BK	BACK
BM	BENCH MARK
BT	BASIC TRANSPORT
BU	BASIC UTILITY
BVC	BEGIN VERTICAL CURVE
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
CFR	CRASH, FIRE, AND RESCUE AND CODE OF FEDERAL REGULATIONS
CFS	CUBIC FEET PER SECOND
CIP	CAST IRON PIPE
CIPP	CAST-IN-PLACE CONCRETE PIPE
CL	CENTERLINE
CLR	CLEARANCE
CMP	CORRUGATED METAL PIPE
CPT	CONTROL POINT
CY	CUBIC YARDS
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
E	EAST OR ELECTRICAL FEATURE
EA	ENVIRONMENTAL ASSESSMENT OR EACH
EL	ELEVATION
EOP	EDGE OF PAVEMENT
EVC	END VERTICAL CURVE
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EX	EXISTING
EXIST	EXISTING
FAA	FEDERAL AVIATION AGENCY (ADMINISTRATION)
FAR	FEDERAL AVIATION REGULATION
FBO	FIXED BASE OPERATOR
FH	FIRE HYDRANT
FL	FLOWLINE
FOD	FOREIGN OBJECT DAMAGE/DEBRIS
FPS	FEET PER SECOND
GA	GENERAL AVIATION OR GAUGE
GB	GRADE BREAK
GALV	GALVANIZED
GR	GRATE ELEVATION
GT	GENERAL TRANSPORT
GU	GENERAL UTILITY
HORIZ	HORIZONTAL
HP	HIGH POINT
IE	INVERT ELEVATION
IFR	INSTRUMENT FLIGHT RULES
ILS	INSTRUMENT LANDING SYSTEM
INT	INTERSECTION
IR	IRON ROD
IRRIG	IRRIGATION
JT	JOINT
KV	KILOVOLT
LF	LINEAR FEET
LS	LUMP SUM
LT	LEFT
MAG	MARICOPA ASSOCIATION OF GOVERNMENTS
MAX	MAXIMUM
MBE	MINORITY BUSINESS ENTERPRISE
MGW	MAXIMUM GROSS WEIGHT
MH	MANHOLE
MIN	MINIMUM
MIRL	MEDIUM INTENSITY RUNWAY LIGHTS
MITL	MEDIUM INTENSITY TAXIWAY LIGHTS
ML	MONUMENT LINE
N	NORTH
NE	NORTHEAST
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION
NPIAS	NATIONAL PLAN OF INTEGRATED AIRPORT SYSTEMS
NAVAID	NAVIGATIONAL AID
NDB	NON-DIRECTIONAL BEACON
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NUMBER
NOTAM	NOTICE TO AIRMEN
NP	NON-PLASTIC
NPI	NON-PRECISION INSTRUMENT/NON-PAY ITEM
NTP	NOTICE TO PROCEED
NTS	NOT TO SCALE
NW	NORTHWEST
OC	ON CENTER
OD	OUTSIDE DIAMETER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ACT
PAPI	PRECISION APPROACH PATH INDICATOR
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION OR PLASTICITY INDEX
PL	PROPERTY LINE
POC	POINT ON CURVE
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PROP	PROPOSED
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REIL	RUNWAY END IDENTIFIER LIGHTS
RGRCP	RUBBER GASKETED REINFORCED CONCRETE PIPE
RP	RADIUS POINT
RSA	RUNWAY SAFETY AREA
RW	RIGHT-OF-WAY
R/W	RUNWAY
RWY	RUNWAY
RT	RIGHT
S	SLOPE OR SOUTH
SD	STORM DRAIN
SE	SOUTHEAST
SEC	SECTION
SF	SEMI-FLUSH OR SQUARE FEET
SHT	SHEET
SPA	SPACING
SPEC	SPECIFICATIONS
SRP	SALT RIVER PROJECT
STA	STATION
STD	STANDARD
SW	SOUTHWEST
SY	SQUARE YARD
TSA	TAXIWAY SAFETY AREA
T/W	TAXIWAY
TWY	TAXIWAY
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UTIL	UTILITY
VAR	VARIES
VASI	VISUAL APPROACH SLOPE INDICATOR
VC	VERTICAL CURVE
VERT	VERTICAL
VFR	VISUAL FLIGHT RULES
VPI	VERTICAL POINT OF INTERSECTION
W	WEST
W	WELDED
WF	WIRE FABRIC
WV	WATER VALVE

LEGEND

- CENTERLINE/SURVEY LINE
- PROPOSED EDGE OF STRUCTURAL PAVEMENT
- EXISTING EDGE OF STRUCTURAL PAVEMENT
- EXISTING CURB AND GUTTER
- E — EXISTING ELECTRIC
- S — EXISTING SANITARY SEWER
- EXISTING CULVERT/PIPE
- PROPOSED CULVERT/PIPE
- APPROXIMATE LIMIT OF GRADING
- GB — GRADE BREAK
- DRAINAGE DITCH/SWALE
- X — EXISTING CHAIN LINK FENCE
- X — PROPOSED CHAIN LINK FENCE
- 75 — EXISTING CONTOUR
- 75 — PROPOSED CONTOUR
- SURVEY MONUMENT
- 5 — BORING LOG CORE LOCATION
- × 02.16 — PROPOSED SPOT ELEVATION
- E — EXISTING ELECTRIC BOX/HANDHOLE
- T — EXISTING COMMUNICATIONS BOX
- PB — EXISTING CONCRETE HANDHOLE
- EXISTING TAXIWAY EDGE LIGHT AND BASE
- PROPOSED TAXIWAY EDGE LIGHT AND BASE
- EXISTING FUEL PUMP
- EXISTING MANHOLE
- PROPOSED MANHOLE
- EXISTING DRAINAGE INLET
- PROPOSED DRAINAGE INLET
- EXISTING WATER METER
- PROPOSED WATER METER
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- PROPOSED DRYWELL
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING GUIDANCE SIGN
- PROPOSED SILT BARRIER
- PROPOSED STRAW BALE BARRIERS INSTALLED AT POINT DISCHARGE OUTLETS (SWALES AND DITCHES)
- FLAGGERS
- PORTLAND CEMENT CONCRETE PAVEMENT
- BITUMINOUS PAVEMENT
- BITUMINOUS MILLINGS
- A/1 — DETAIL/SECTION REFERENCE (DETAIL DESIGNATION ON TOP, SHEET NUMBER ON BOTTOM)
- PORTABLE LIGHTED RUNWAY CLOSURE MARKER
- HAUL ROUTE
- LOW PROFILE BARRICADES
- VERTICAL PANEL BARRICADES
- AIRCRAFT TRAFFIC ROUTE DURING CONSTRUCTION
- DESIGN AIRCRAFT (C-130)

COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4

PAGE	SHEET NUMBER	SHEET TITLE
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5	C2.1	CONSTRUCTION PHASING PLAN
6	C2.2	CONSTRUCTION PHASING PLAN
7	C2.3	STORMWATER POLLUTION PREVENTION PLAN
8	C3.1	DEMOLITION PLAN
9	C3.2	DEMOLITION PLAN
10	C4.1	TYPICAL SECTION
11	C5.1	GEOMETRIC LAYOUT PLAN
12	C6.1	PLAN AND PROFILE
13	C7.1	GRADING AND DRAINAGE
14	C7.2	GRADING AND DRAINAGE
15	C10.1	PAVEMENT MARKING PLAN
16	C10.2	PAVEMENT MARKING DETAILS
17	E1.0	ELECTRICAL SCOPE OF WORK
18	E1.1	ELECTRICAL LAYOUT
19	E2.1	TAXIWAY CIRCUIT MAP
20	E3.1	SIGN DETAILS
21	E3.2	TAXIWAY EDGE LIGHT DETAILS
22	E3.3	TRENCH DETAILS
22	E3.4	GROUNDING AND CONNECTOR DETAILS
23	E3.5	HANDHOLE DETAILS
24	E5.1	ELECTRICAL DEMOLITION PLAN
25	E5.2	ELECTRICAL DEMOLITION PLAN
ALTERNATE 1		
26	C4.2	TYPICAL SECTION
27	C5.2	GEOMETRIC LAYOUT PLAN
28	C6.2	PLAN AND PROFILE
29	C7.3	GRADING AND DRAINAGE
30	C7.4	GRADING AND DRAINAGE
31	C10.3	PAVEMENT MARKING PLAN
32	E1.2	ELECTRICAL LAYOUT
ALTERNATE 2		
33	C4.3	TYPICAL SECTION
34	C5.3	GEOMETRIC LAYOUT PLAN
35	C5.4	GEOMETRIC LAYOUT PLAN
36	C6.3	PLAN AND PROFILE
37	C6.4	PLAN AND PROFILE
38	C6.5	PLAN AND PROFILE
39	C7.5	GRADING AND DRAINAGE
40	C7.6	GRADING AND DRAINAGE
41	C7.7	GRADING AND DRAINAGE
42	C10.4	PAVEMENT MARKING PLAN
43	C10.5	PAVEMENT MARKING PLAN
44	E1.3	ELECTRICAL LAYOUT
45	E1.4	ELECTRICAL LAYOUT

NO.	REVISION	DATE

Kimley»Horn
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Phoenix, Arizona 85020 (602) 944-5500

Registered Professional Engineer (Civil) CERTIFICATE NO. 53933 BRIAN LEVI GALL Date Signed 07.01.16 ARIZONA U.S.A. Exp. Date 12/31/18

SCALE (H): N/A
SCALE (V): N/A
DESIGNED BY: BLG
DRAWN BY: BLR
CHECKED BY: BLG
DATE: 07/01/16

COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINCKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 GENERAL NOTES

PROJECT NO. 191593007

DRAWING NAME 191593007NT.dwg

C1.2

SHEET NO. 2 OF 45

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XREFS: X191593007TB
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SUMMARY OF QUANTITIES

IFB Quantities

Base Bid A

Item No.	Specification Number	Bid Item Description	Quantity	Unit
1	P-100-3.1	Contractor Quality Control	1	LS
2	GP-105-2	Mobilization/Demobilization (Maximum of 5%)	1	LS
3	P-101-6.3	Sawcut Existing AC Pavement	240	LF
4	P-101-6.2	Sawcut Existing PCC Pavement	820	LF
5	P-101-6.1	Bituminous Pavement Removal (5 In. Depth)	10,000	SY
6	P-152-4.1	Unclassified Excavation / Replacement of Unsuitable Materials, Backfill and Compaction	6,100	CY
7	P-151-4.2	Clearing and Grubbing	11	AC
8	P-155-8.1	Lime Treated Subgrade - 9" (Taxiway and Shoulder)	5,900	SY
9	P-155-8.2	Lime	120	TONS
10	P-156-5.1	Storm Water Pollution Prevention	1	LS
11	P-304-8.1	Cement Treated Base Course - 4" (Taxiway)	3,500	SY
12	Sect 702-4.1	Aggregate Base Course - 4" (Shoulder)	260	CY
13	Sect 710-4.3	Plant Mix Bituminous Pavements (2" Surface Course - Shoulder)	270	TONS
14	P-401-8.1.1	Plant Mix Bituminous Pavements (4" Surface Course - Taxiway)	790	TONS
15	P-101-6.5	Bituminous Pavement Milling Placement - 4" (Shoulder & Service)	200	SY
16	P-620-5.1-1	Pavement Markings (Yellow)	2,205	SF
17	P-620-5.1-2	Pavement Markings (Black)	630	SF
18	P-620-5.1-3	Pavement Markings (White)	189	SF
19	D-100	Dry Well	2	EA
20	M-002-4.1	Field Office and Curing Facilities	1	LS
21	GP-120.1	Airside Safety and Security / Traffic Control	1	LS
22	L-100-5.1	Electrical Demolition	1	LS
23	L-100-5.2	Remove and Re-install Runway End Light	2	EA
24	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	2,900	LF
25	L-110-5.1	Single-way (1) 2" Conduit, Direct Buried	2,500	LF
26	L-110-5.2	Single-way (1) 2" Conduit, Concrete Encased	225	LF
27	L-110-5.3	Multi-way (4) 2" Conduit, Concrete Encased	550	LF
28	L-115-5.1	H-20 Traffic Load Rated Concrete Handhole	4	EA
29	L-858-5.1	2-Module, Size 1 Airfield Sign with Concrete Base	3	EA
30	L-858-5.2	3-Module, Size 1 Airfield Sign with Concrete Base	1	EA
31	L-861T-5.1	New L-861T(L) Elevated Taxiway Edge Light Installed on L-867 Base Can including Isolation Transformer, stem, plate and splice kit	25	EA
32	L-867-6.1	New Size "B" L-867 Base Can for Any New Elevated Fixture	27	EA
33	L-867-6.2	New Size "B" L-867 Junction Can with Blank Lid	1	EA

IFB Quantities

Alternate 1A

Item No.	Specification Number	Bid Item Description	Quantity	Unit
1	P-100-3.1	Contractor Quality Control	1	LS
2	GP-105-2	Mobilization/Demobilization (Maximum of 5%)	1	LS
3	P-152-4.1	Unclassified Excavation / Replacement of Unsuitable Materials, Backfill and Compaction	4,900	CY
4	P-155-8.1	Lime Treated Subgrade - 9" (Taxiway and Shoulder)	5,300	SY
5	P-155-8.2	Lime	110	TONS
6	P-156-5.1	Storm Water Pollution Prevention	1	LS
7	P-304-8.1	Cement Treated Base Course - 4" (Taxiway)	3,100	SY
8	Sect 702-4.1	Aggregate Base Course - 4" (Shoulder)	300	CY
9	Sect 710-4.3	Plant Mix Bituminous Pavements (2" Surface Course - Shoulder)	300	TONS
10	P-401-8.1.1	Plant Mix Bituminous Pavements (4" Surface Course - Taxiway)	700	TONS
11	P-101-6.5	Bituminous Pavement Milling Placement - 4" (Shoulder)	0	SY
12	P-620-5.1-1	Pavement Markings (Yellow)	1,890	SF
13	P-620-5.1-2	Pavement Markings (Black)	630	SF
14	P-620-5.1-3	Pavement Markings (White)	0	SF
15	D-100	Dry Well	2	LS
16	M-002-4.1	Field Office and Curing Facilities	1	LS
17	GP-120.1	Airside Safety and Security / Traffic Control	1	LS
18	L-100-5.1	Electrical Demolition	1	LS
19	L-100-5.2	Remove and Re-install Runway End Light	0	EA
20	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	0	LF
21	L-110-5.1	Single-way (1) 2" Conduit, Direct Buried	1,300	LF
22	L-110-5.2	Single-way (1) 2" Conduit, Concrete Encased	0	LF
23	L-110-5.3	Multi-way (4) 2" Conduit, Concrete Encased	250	LF
24	L-115-5.1	H-20 Traffic Load Rated Concrete Handhole	1	EA
25	L-858-5.2	2-Module, Size 1 Airfield Sign with Concrete Base	0	EA
26	L-858-5.2	3-Module, Size 1 Airfield Sign with Concrete Base	2	EA
27	L-861T-5.1	New L-861T(L) Elevated Taxiway Edge Light Installed on L-867 Base Can including Isolation Transformer, stem, plate and splice kit	23	EA
28	L-867-6.1	New Size "B" L-867 Base Can for Any New Elevated Fixture	23	EA
29	L-867-6.2	New Size "B" L-867 Junction Can with Blank Lid	0	EA

IFB Quantities

Alternate 2A

Item No.	Specification Number	Bid Item Description	Quantity	Unit
1	P-100-3.1	Contractor Quality Control	1	LS
2	GP-105-2	Mobilization/Demobilization (Maximum of 5%)	1	LS
3	P-152-4.1	Unclassified Excavation / Replacement of Unsuitable Materials, Backfill and Compaction	9,900	CY
4	P-155-8.1	Lime Treated Subgrade - 9" (Taxiway and Shoulder)	9,900	SY
5	P-155-8.2	Lime	210	TONS
6	P-156-5.1	Storm Water Pollution Prevention	1	LS
7	P-304-8.1	Cement Treated Base Course - 4" (Taxiway)	6,100	SY
8	Sect 702-4.1	Aggregate Base Course - 4" (Shoulder)	400	CY
9	Sect 710-4.3	Plant Mix Bituminous Pavements (2" Surface Course - Shoulder)	500	TONS
10	P-401-8.1.1	Plant Mix Bituminous Pavements (4" Surface Course - Taxiway)	1,400	TONS
11	P-101-6.5	Bituminous Pavement Milling Placement - 4" (Shoulder & Service)	400	SY
12	P-620-5.1-1	Pavement Markings (Yellow)	4,200	SF
13	P-620-5.1-2	Pavement Markings (Black)	1,890	SF
14	P-620-5.1-3	Pavement Markings (White)	0	SF
15	D-100.1	Dry Well	4	LS
16	D-100.2	Adjust Existing Drainage Structure	1	LS
17	M-002-4.1	Field Office and Curing Facilities	1	LS
18	GP-120.1	Airside Safety and Security / Traffic Control	1	LS
19	L-100-5.1	Electrical Demolition	1	LS
20	L-100-5.2	Remove and Re-install Runway End Light	0	EA
21	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	0	LF
22	L-110-5.1	Single-way (1) 2" Conduit, Direct Buried	2,750	LF
23	L-110-5.2	Single-way (1) 2" Conduit, Concrete Encased	0	LF
24	L-110-5.3	Multi-way (4) 2" Conduit, Concrete Encased	900	LF
25	L-115-5.1	H-20 Traffic Load Rated Concrete Handhole	3	EA
26	L-858-5.2	2-Module, Size 1 Airfield Sign with Concrete Base	1	EA
27	L-858-5.2	3-Module, Size 1 Airfield Sign with Concrete Base	4	EA
28	L-861T-5.1	New L-861T(L) Elevated Taxiway Edge Light Installed on L-867 Base Can including Isolation Transformer, stem, plate and splice kit	45	EA
29	L-867-6.1	New Size "B" L-867 Base Can for Any New Elevated Fixture	45	EA
30	L-867-6.2	New Size "B" L-867 Junction Can with Blank Lid	0	EA

IFB Quantities

Base Bid B

Item No.	Specification Number	Bid Item Description	Quantity	Unit
1	P-100-3.1	Contractor Quality Control	1	LS
2	GP-105-2	Mobilization/Demobilization (Maximum of 5%)	1	LS
3	P-101-6.3	Sawcut Existing AC Pavement	240	LF
4	P-101-6.2	Sawcut Existing PCC Pavement	820	LF
5	P-101-6.1	Bituminous Pavement Removal (5 In. Depth)	10,000	SY
6	P-152-4.1	Unclassified Excavation / Replacement of Unsuitable Materials, Backfill and Compaction	6,100	CY
7	P-151-4.2	Clearing and Grubbing	11	AC
8	P-155-8.1	Lime Treated Subgrade - 9" (Taxiway and Shoulder)	5,900	SY
9	P-155-8.2	Lime	120	TONS
10	P-156-5.1	Storm Water Pollution Prevention	1	LS
11	P-304-8.1	Cement Treated Base Course - 4" (Taxiway)	3,500	SY
12	Sect 702-4.1	Aggregate Base Course - 4" (Shoulder)	260	CY
13	Sect 710-4.3	Plant Mix Bituminous Pavements (2" Surface Course - Shoulder)	270	TONS
14	P-401-8.1.1	Plant Mix Bituminous Pavements (4" Surface Course - Taxiway)	790	TONS
15	P-101-6.5	Bituminous Pavement Milling Placement - 4" (Shoulder & Service)	200	SY
16	P-620-5.1-1	Pavement Markings (Yellow)	2,205	SF
17	P-620-5.1-2	Pavement Markings (Black)	630	SF
18	P-620-5.1-3	Pavement Markings (White)	189	SF
19	D-100	Dry Well	2	EA
20	M-002-4.1	Field Office and Curing Facilities	1	LS
21	GP-120.1	Airside Safety and Security / Traffic Control	1	LS
22	L-100-5.1	Electrical Demolition	1	LS
23	L-100-5.2	Remove and Re-install Runway End Light	2	EA
24	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	250	LF
25	L-110-5.1	Single-way (1) 2" Conduit, Direct Buried	0	LF
26	L-110-5.2	Single-way (1) 2" Conduit, Concrete Encased	225	LF
27	L-110-5.3	Multi-way (4) 2" Conduit, Concrete Encased	550	LF
28	L-115-5.1	H-20 Traffic Load Rated Concrete Handhole	4	EA
28	L-853-4.1	New L-853 Stake Mounted Retroreflective Marker	25	EA
29	L-858-5.3	Unlit 2-Module, Size 1 Airfield Sign with Concrete Base	3	EA
30	L-858-5.4	Unlit 3-Module, Size 1 Airfield Sign with Concrete Base	1	EA
31	L-867-6.1	New Size "B" L-867 Base Can for Any New Elevated Fixture	2	EA
32	L-867-6.2	New Size "B" L-867 Junction Can with Blank Lid	1	EA

IFB Quantities

Alternate 1B

Item No.	Specification Number	Bid Item Description	Quantity	Unit
1	P-100-3.1	Contractor Quality Control	1	LS
2	GP-105-2	Mobilization/Demobilization (Maximum of 5%)	1	LS
3	P-152-4.1	Unclassified Excavation / Replacement of Unsuitable Materials, Backfill and Compaction	4,900	CY
4	P-155-8.1	Lime Treated Subgrade - 9" (Taxiway and Shoulder)	5,300	SY
5	P-155-8.2	Lime	110	TONS
6	P-156-5.1	Storm Water Pollution Prevention	1	LS
7	P-304-8.1	Cement Treated Base Course - 4" (Taxiway)	3,100	SY
8	Sect 702-4.1	Aggregate Base Course - 4" (Shoulder)	300	CY
9	Sect 710-4.3	Plant Mix Bituminous Pavements (2" Surface Course - Shoulder)	300	TONS
10	P-401-8.1.1	Plant Mix Bituminous Pavements (4" Surface Course - Taxiway)	700	TONS
11	P-101-6.5	Bituminous Pavement Milling Placement - 4" (Shoulder)	0	SY
12	P-620-5.1-1	Pavement Markings (Yellow)	1,890	SF
13	P-620-5.1-2	Pavement Markings (Black)	630	SF
14	P-620-5.1-3	Pavement Markings (White)	0	SF
15	D-100	Dry Well	2	LS
16	M-002-4.1	Field Office and Curing Facilities	1	LS
17	GP-120.1	Airside Safety and Security / Traffic Control	1	LS
18	L-100-5.1	Electrical Demolition	1	LS
19	L-100-5.2	Remove and Re-install Runway End Light	0	EA
20	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	0	LF
21	L-110-5.1	Single-way (1) 2" Conduit, Direct Buried	0	LF
22	L-110-5.2	Single-way (1) 2" Conduit, Concrete Encased	225	LF
23	L-110-5.3	Multi-way (4) 2" Conduit, Concrete Encased	250	LF
24	L-115-5.1	H-20 Traffic Load Rated Concrete Handhole	1	EA
25	L-853-4.1	New L-853 State Mounted Retroreflective Marker	23	EA
26	L-858-5.2	2-Module, Size 1 Airfield Sign with Concrete Base	0	EA
27	L-858-5.2	3-Module, Size 1 Airfield Sign with Concrete Base	2	EA
28	L-861T-5.1	New L-861T(L) Elevated Taxiway Edge Light Installed on L-867 Base Can including Isolation Transformer, stem, plate and splice kit	0	EA
29	L-867-6.1	New Size "B" L-867 Base Can for Any New Elevated Fixture	0	EA
30	L-867-6.2	New Size "B" L-867 Junction Can with Blank Lid	0	EA

IFB Quantities

Alternate 2B

Item No.	Specification Number	Bid Item Description	Quantity	Unit
1	P-100-3.1	Contractor Quality Control	1	LS
2	GP-105-2	Mobilization/Demobilization (Maximum of 5%)	1	LS
3	P-152	Unclassified Excavation / Replacement of Unsuitable Materials, Backfill and Compaction	9,900	CY
4	P-155-8.1	Lime Treated Subgrade - 9" (Taxiway and Shoulder)	9,900	SY
5	P-155-8.2	Lime	210	TONS
6	P-156-5.1	Storm Water Pollution Prevention	1	LS
7	P-304-8.1	Cement Treated Base Course - 4" (Taxiway)	6,100	SY
8	Sect 702-4.1	Aggregate Base Course - 4" (Shoulder)	400	CY
9	Sect 710-4.3	Plant Mix Bituminous Pavements (2" Surface Course - Shoulder)	500	TONS
10	P-401-8.1.1	Plant Mix Bituminous Pavements (4" Surface Course - Taxiway)	1,400	TONS
11	P-101-6.5	Bituminous Pavement Milling Placement - 4" (Shoulder)	400	SY
12	P-620-5.1-1	Pavement Markings (Yellow)	4,200	SF
13	P-620-5.1-2	Pavement Markings (Black)	1,890	SF
14	P-620-5.1-3	Pavement Markings (White)	0	SF
15	D-100	Dry Well	4	LS
16	D-100.2	Adjust Existing Drainage Structure	1	LS
17	M-002-4.1	Field Office and Curing Facilities	1	LS
18	GP-120.1	Airside Safety and Security / Traffic Control	1	LS
19	L-100-5.1	Electrical Demolition	1	LS
20	L-100-5.2	Remove and Re-install Runway End Light	0	EA
21	L-108-5.1	L-824, Type C, 1/C #8, 5 kV Cable	0	LF
22	L-110-5.1	Single-way (1) 2" Conduit, Direct Buried	0	LF
23	L-110-5.2	Single-way (1) 2" Conduit, Concrete Encased	0	LF
24	L-110-5.3	Multi-way (4) 2" Conduit, Concrete Encased	900	LF
25	L-115-5.1	H-20 Traffic Load Rated Concrete Handhole	7	EA
26	L-853-4.1	New L-853 State Mounted Retroreflective Marker	45	EA
27	L-858-5.2	2-Module, Size 1 Airfield Sign with Concrete Base	1	EA
28	L-858-5.2	3-Module, Size 1 Airfield Sign with Concrete Base	4	EA
29	L-861T-5.1	New L-861T(L) Elevated Taxiway Edge Light Installed on L-867 Base Can including Isolation Transformer, stem, plate and splice kit	0	EA
30	L-867-6.1	New Size "B" L-867 Base Can for Any New Elevated Fixture	0	EA
31	L-867-6.2	New Size "B" L-867 Junction Can with Blank Lid	0	EA

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NO.	REVISION	DATE

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7740 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

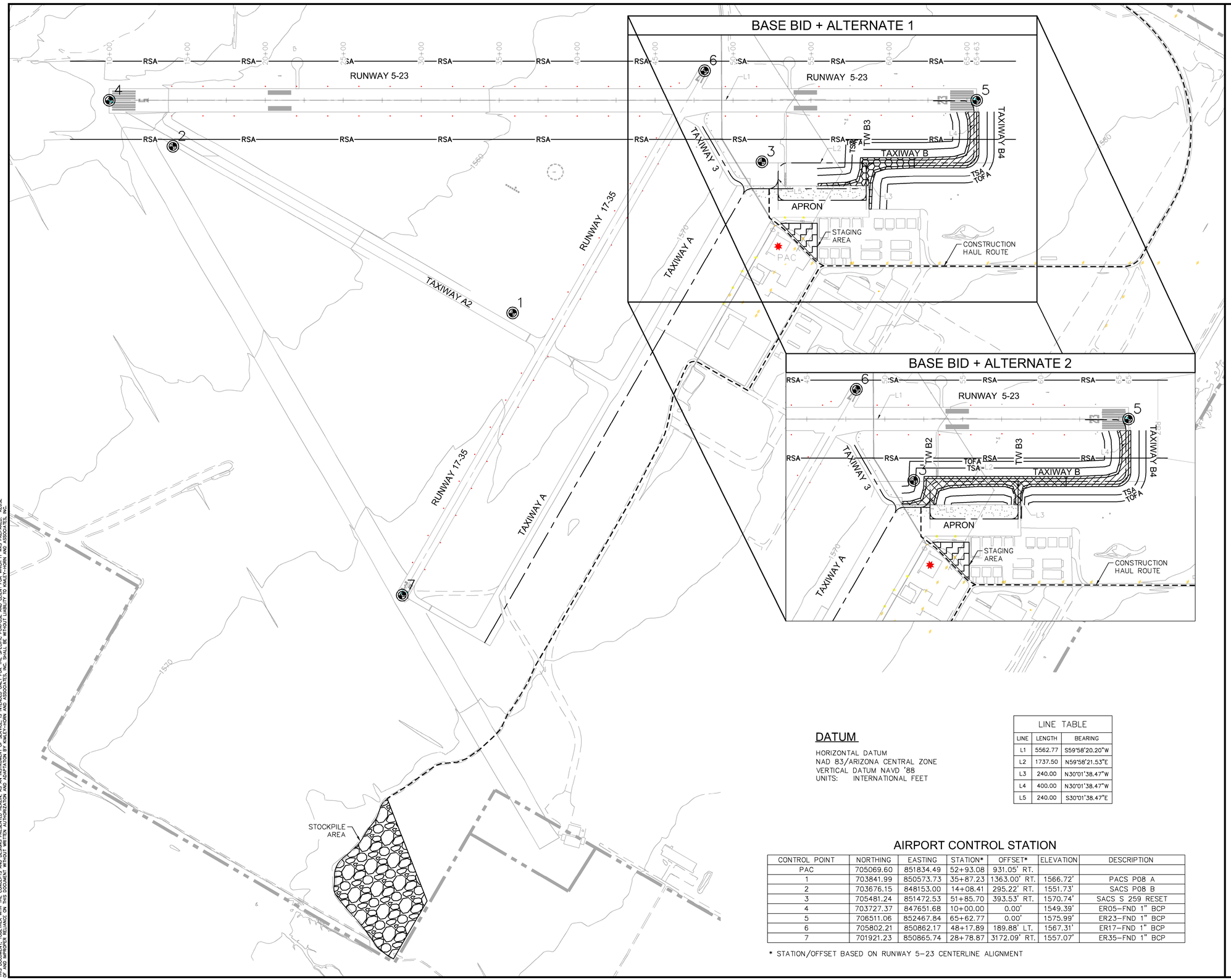
Registered Professional Engineer (Civil) CERTIFICATE NO. 53933 BRIAN LEVI GALL Date Signed 07/6/16 ARIZONA U.S.A. Exp. Date 12/31/18

SCALE (H): N/A
SCALE (V): N/A
DESIGNED BY: BLG
DRAWN BY: BLR
CHECKED BY: BLG
DATE: 07/01/16

COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
PROJECT QUANTITIES

PROJECT NO. 191593007
DRAWING NAME 191593007NT.dwg
C1.3
SHEET NO. 3 OF 45



LEGEND

- BASE BID
- ALTERNATE 1
- ALTERNATE 2
- STAGING AREA
- STOCKPILE LOCATION
- HORIZONTAL AND VERTICAL CONTROL POINTS. TEMPORARY CONSTRUCTION BENCH MARK.
- PROJECT BENCHMARK POINT
- PRIMARY AIRPORT CONTROL (PAC) STATION
- RSA — RUNWAY SAFETY AREA
- HAUL ROUTE/SITE ACCESS
- GRADING LIMITS

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF THE CONSTRUCTION OF TAXIWAY B & B4 PAVEMENT CONSTRUCTION. THE PROJECT INCLUDES: DEMOLITION OF EXISTING ASPHALT, SUBGRADE PREPARATION, LIME STABILIZATION, AGGREGATE BASE PLACEMENT, ASPHALT BASE PAVING, AC AIRFIELD PAVEMENT PLACEMENT, ASPHALTIC SHOULDER PAVING, NEW EDGE LIGHTING, NEW SIGNAGE, AND PAVEMENT MARKING/STRIPING.

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOT START WORK UNTIL A N.T.P. HAS BEEN ISSUED BY THE CITY OF COOLIDGE.
2. THE CONTRACTOR SHALL COORDINATE ANY NECESSARY CLOSURES WITH THE AIRPORT, PRIOR TO STARTING WORK.
3. THE CONTRACTOR SHALL VERIFY THE BARRICADES AND LIGHTED X'S FOR EACH PHASE OF THE PROJECT ARE IN THE CORRECT LOCATION, ARE PROPERLY SECURED, AND ARE IN PROPER WORKING ORDER PRIOR TO STARTING WORK EACH DAY/NIGHT OF THE PROJECT.
4. THE CONTRACTOR SHALL NOT STRAY FROM THE HAUL ROUTE / SITE ACCESS DESIGNATED ON THE PROJECT LAYOUT PLAN, SEE SHEET C1.4.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE HAUL ROUTE / SITE ACCESS DURING THE PROJECT. THE CONTRACTOR WILL REPAIR THE HAUL ROUTE / SITE ACCESS AS NECESSARY AT THE END OF THE PROJECT (AT THE CONTRACTOR'S EXPENSE).

DATUM

HORIZONTAL DATUM
NAD 83/ARIZONA CENTRAL ZONE
VERTICAL DATUM NAVD '88
UNITS: INTERNATIONAL FEET

LINE TABLE

LINE	LENGTH	BEARING
L1	5562.77	S59°58'20.20"W
L2	1737.50	N59°58'21.53"E
L3	240.00	N30°01'38.47"W
L4	400.00	N30°01'38.47"W
L5	240.00	S30°01'38.47"E

AIRPORT CONTROL STATION

CONTROL POINT	NORTHING	EASTING	STATION*	OFFSET*	ELEVATION	DESCRIPTION
PAC	705069.60	851834.49	52+93.08	931.05' RT.		
1	703841.99	850573.73	35+87.23	1363.00' RT.	1566.72'	PACS P08 A
2	703676.15	848153.00	14+08.41	295.22' RT.	1551.73'	SACS P08 B
3	705481.24	851472.53	51+85.70	393.53' RT.	1570.74'	SACS S 259 RESET
4	703727.37	847651.68	10+00.00	0.00'	1549.39'	ER05–FND 1" BCP
5	706511.06	852467.84	65+62.77	0.00'	1575.99'	ER23–FND 1" BCP
6	705802.21	850862.17	48+17.89	189.88' LT.	1567.31'	ER17–FND 1" BCP
7	701921.23	850865.74	28+78.87	3172.09' RT.	1557.07'	ER35–FND 1" BCP

* STATION/OFFSET BASED ON RUNWAY 5–23 CENTERLINE ALIGNMENT

Call at least two full working days before you begin any excavation. ARIZONA 811 Blue Stake, Inc. Dial 8-1-1 or 1-800-STAKE-IT (782-5348) In Maricopa County (602) 263-1100

NO.	REVISION	DATE

Kimley»Horn
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7740 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

Registered Professional Engineer (Civil) CERTIFICATE NO. 53933 BRIAN LEVI GALL Date Signed 07/6/16 ARIZONA, U.S.A. Exp. Date 12/31/18

SCALE (H):
SCALE (V):
DESIGNED BY: BLG
DRAWN BY: BLR
CHECKED BY: BLG
DATE: 07/01/16

COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 PROJECT LAYOUT PLAN

PROJECT NO. 191593007
DRAWING NAME 191593007PL.dwg
C1.4
SHEET NO. 4 OF 45

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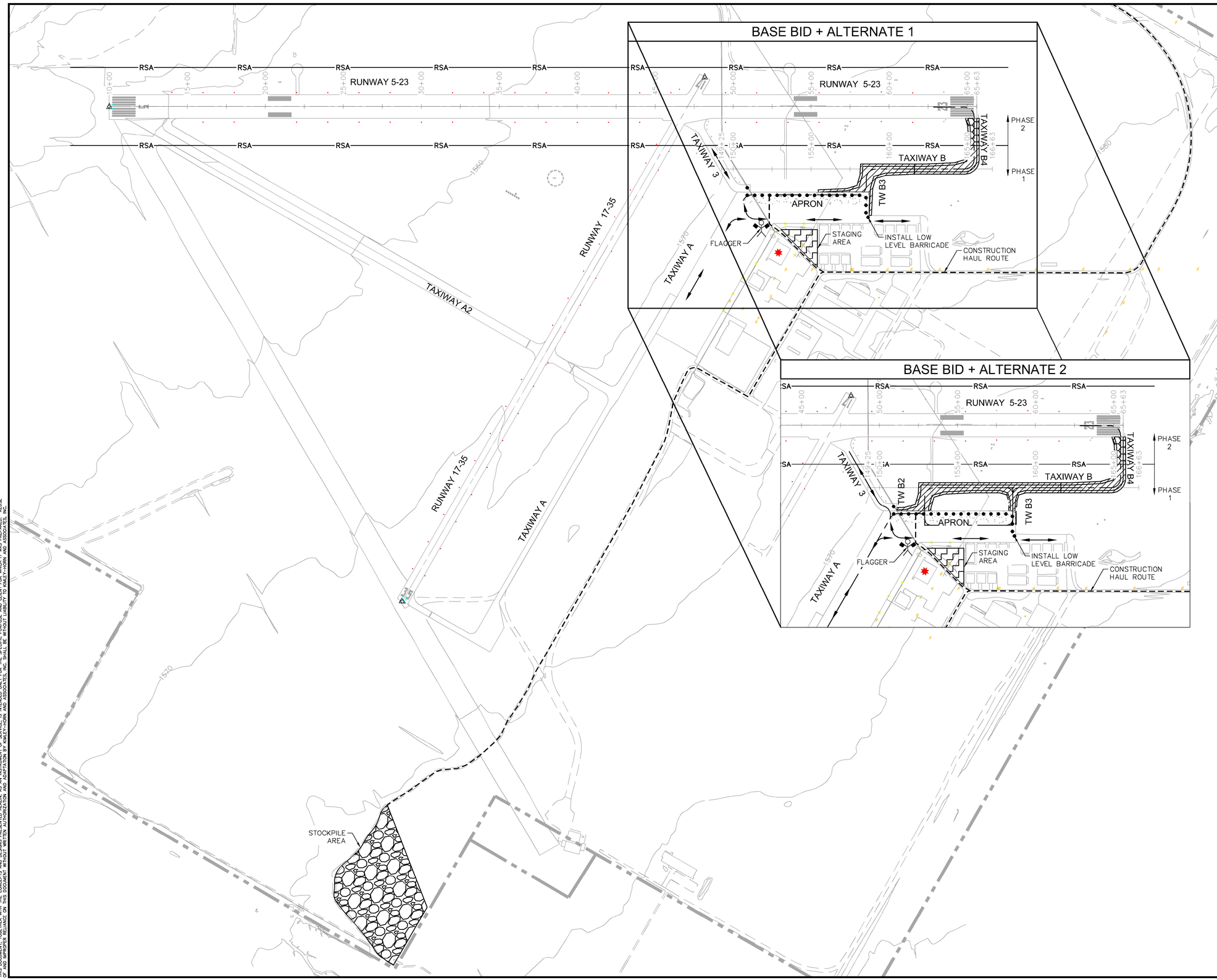

LEGEND

- PHASE 1
- PHASE 2
- STAGING AREA
- STOCKPILE LOCATION
- LIGHTED X (TO BE PROVIDED/ MAINTAINED BY CONTRACTOR)
- LOW PROFILE BARRICADES (TO BE PROVIDED/MAINTAINED BY CONTRACTOR)
- DESIGN AIRCRAFT
- FLAGGER (TO BE SUPPLIED BY CONTRACTOR)
- AIRCRAFT TRAFFIC ROUTE DURING CONSTRUCTION
- RSA — RUNWAY SAFETY AREA
- HAUL ROUTE/SITE ACCESS

GENERAL NOTES:

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NORTH

GRAPHIC SCALE IN FEET
0 150 300 600

Call at least two full working days before you begin excavation
ARIZONA 811
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County (602) 263-1100

NO.	REVISION	DATE

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7740 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

Registered Professional Engineer (Civil) CERTIFICATE NO. 53933 BRIAN LEVI GALL Date Signed 07.01.16 ARIZONA U.S.A. Exp. Date 12/31/18

SCALE (H):
SCALE (V):
DESIGNED BY: BLG
DRAWN BY: BLR
CHECKED BY: BLG
DATE: 07/01/16

COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
CONSTRUCTION PHASING PLAN
PHASE 1

PROJECT NO. 191593007

DRAWING NAME 191593007CS01.dwg

C2.1

SHEET NO. 5 OF 45

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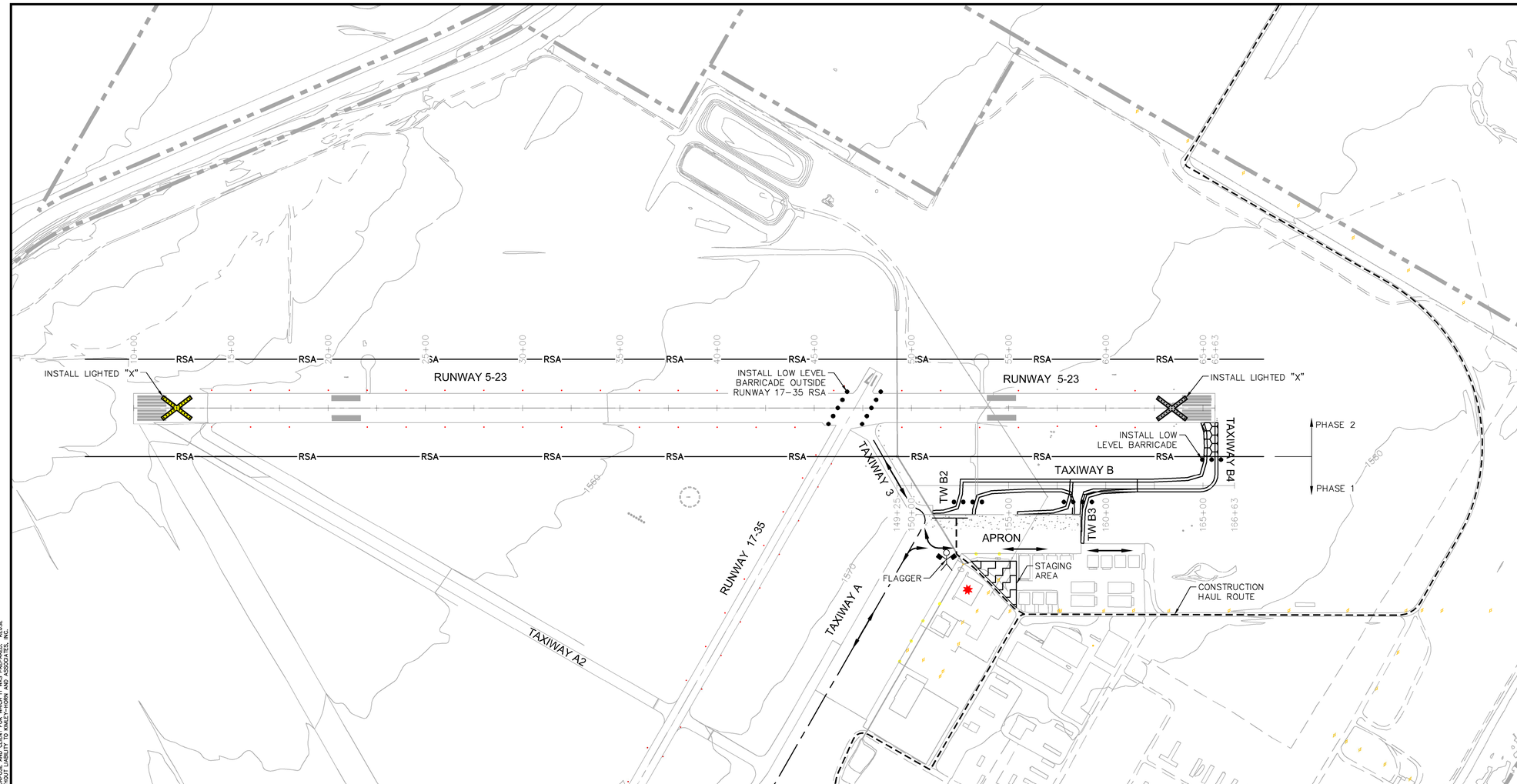
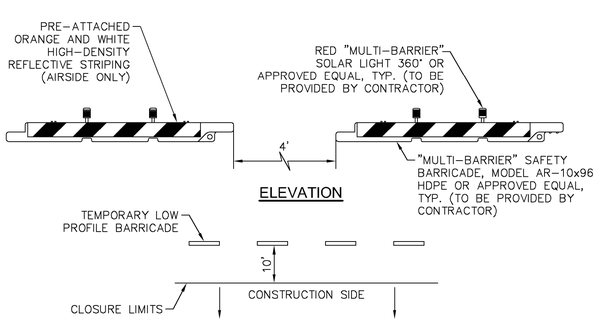


LEGEND

- PHASE 1
- PHASE 2
- STAGING AREA
- STOCKPILE LOCATION
- LIGHTED X (TO BE PROVIDED/ MAINTAINED BY CONTRACTOR)
- LOW PROFILE BARRICADES (TO BE PROVIDED/MAINTAINED BY CONTRACTOR)
- DESIGN AIRCRAFT
- FLAGGER (TO BE SUPPLIED BY CONTRACTOR)
- AIRCRAFT TRAFFIC ROUTE DURING CONSTRUCTION
- RSA — RUNWAY SAFETY AREA
- HAUL ROUTE/SITE ACCESS

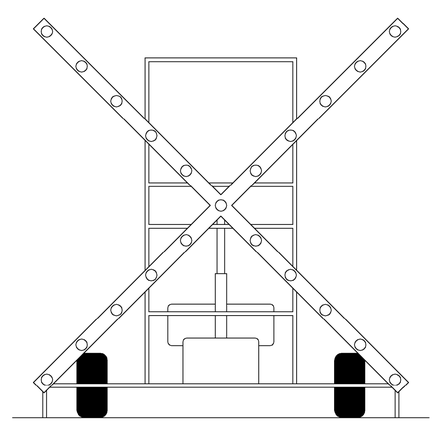
GENERAL NOTES:

1. THE CONTRACTOR SHALL NOT START WORK UNTIL A N.T.P. HAS BEEN ISSUED BY THE CITY OF COOLIDGE.
2. THE CONTRACTOR SHALL COORDINATE ANY NECESSARY CLOSURES WITH THE AIRPORT, PRIOR TO STARTING WORK.
3. THE CONTRACTOR SHALL VERIFY THE BARRICADES AND LIGHTED X'S FOR EACH PHASE OF THE PROJECT ARE IN THE CORRECT LOCATION, ARE PROPERLY SECURED, AND ARE IN PROPER WORKING ORDER PRIOR TO STARTING WORK EACH DAY/NIGHT OF THE PROJECT.
4. THE CONTRACTOR SHALL NOT STRAY FROM THE HAUL ROUTE / SITE ACCESS DESIGNATED ON THE PROJECT LAYOUT PLAN, SEE SHEET C1.4.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE HAUL ROUTE / SITE ACCESS DURING THE PROJECT. THE CONTRACTOR WILL REPAIR THE HAUL ROUTE / SITE ACCESS AS NECESSARY AT THE END OF THE PROJECT (AT THE CONTRACTOR'S EXPENSE).



1 / 11.1 LOW PROFILE BARRICADE

N.T.S.



LIGHTED X NOTES

PORTABLE LIGHTED RUNWAY CLOSURE MARKERS (LIGHTED "X") SHALL MEET ALL OF THE FOLLOWING CONDITIONS:

1. WILL BE PROVIDED BY THE CONTRACTOR AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL NOTIFY THE AIRPORT IMMEDIATELY IF ANY DISRUPTION TO THE LIGHTED RUNWAY CLOSURE MARKERS IS NOTICED DURING WORK HOURS.
2. BE CONTROLLED SO THAT THE LIGHTED SIGNAL WILL FLASH AT AN APPROXIMATE RATE OF TWO AND A HALF TO THREE (2.5–3) SECONDS "ON" AND ONE TO TWO AND A HALF (1–2.5) SECONDS "OFF".
3. PROVIDE THE FOLLOWING DAYTIME AND NIGHTTIME VISUAL REFERENCE DURING VISUAL FLIGHT RULE (VFR) CONDITIONS WHEN PLACED ON CENTERLINE PER THE DIMENSIONS SHOWN ON THE PLANS:
   - (A) VISIBLE TO THE PILOT AT A RANGE OF AT LEAST FIVE NAUTICAL MILES.
   - (B) RECOGNIZABLE AS A LETTER "X" FROM A RANGE OF AT LEAST ONE NAUTICAL MILE.
4. INCLUDE AN OPERATIONS PLACARD IN A CONSPICUOUS LOCATION THAT INSTRUCTS OPERATORS TO VISUALLY CHECK THE OPERATION OF THE DEVICE EVERY TWO HOURS.
5. DIMENSIONING AND LIGHTING ARRANGEMENT SHALL FOLLOW THE DESIGN RECOMMENDATION PER FAA AC 150/5345–55A. THE USE OF LED LIGHTS IS STRONGLY ENCOURAGED.

2 / 11.1 PORTABLE LIGHTED RUNWAY CLOSURE MARKER

TWO LOCATIONS AS SHOWN ON PLANS

NORTH

GRAPHIC SCALE IN FEET
0 150 300 600

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NO.	REVISION	DATE

Kimley»Horn
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7740 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

Registered Professional Engineer (Civil) CERTIFICATE NO. 53933 BRIAN LEVI GALL Date Signed 07.6.16 ARIZONA, U.S.A. Exp. Date 12/31/18

SCALE (H):
SCALE (V):
DESIGNED BY: BLG
DRAWN BY: BLR
CHECKED BY: BLG
DATE: 07/01/16

COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 CONSTRUCTION PHASING PLAN PHASE 2

PROJECT NO. 191593007

DRAWING NAME 191593007CS02.dwg

C2.2

SHEET NO. 6 OF 45

K:\PHX_Aviation\191593007 Coolidge OnCall Task4\CADD\191593007CS02.dwg Jul 06, 2016 brandon.robinson
XREF'S: x191593007/S x191593007TB x191593007BM x191593007/L x191593007/F c191593007AL
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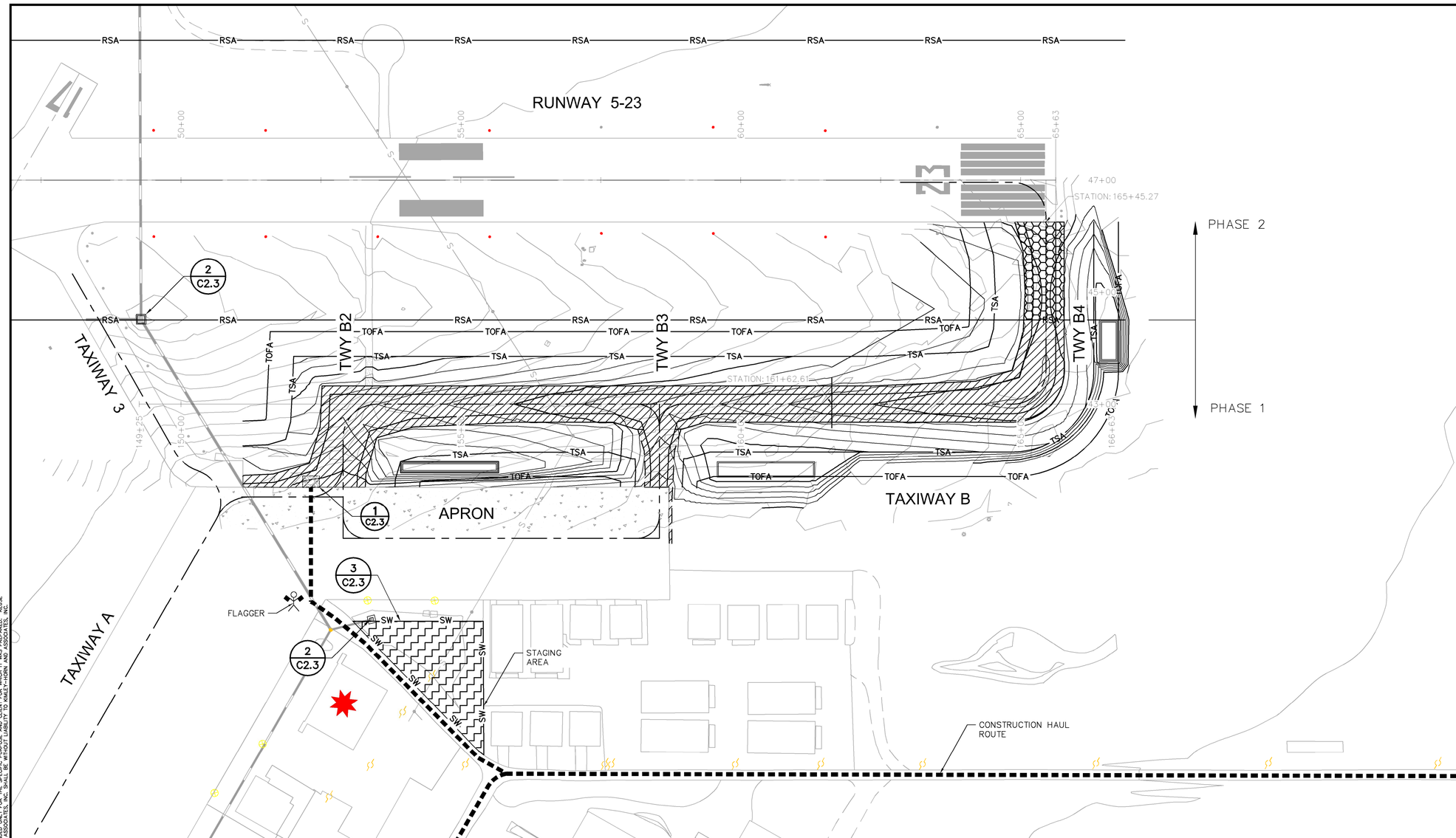

LEGEND

- PHASE 1
- PHASE 2
- STAGING AREA
- STOCKPILE LOCATION
- DESIGN AIRCRAFT (C-130)
- FLAGGER (TO BE SUPPLIED BY CONTRACTOR)
- AIRCRAFT TRAFFIC ROUTE DURING CONSTRUCTION
- RSA — RUNWAY SAFETY AREA
- HAUL ROUTE/SITE ACCESS
- GRADING LIMITS

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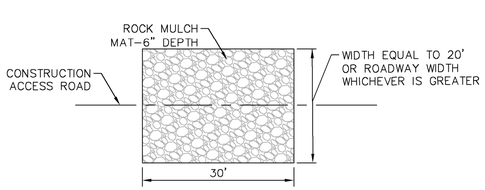
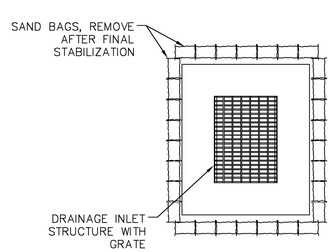
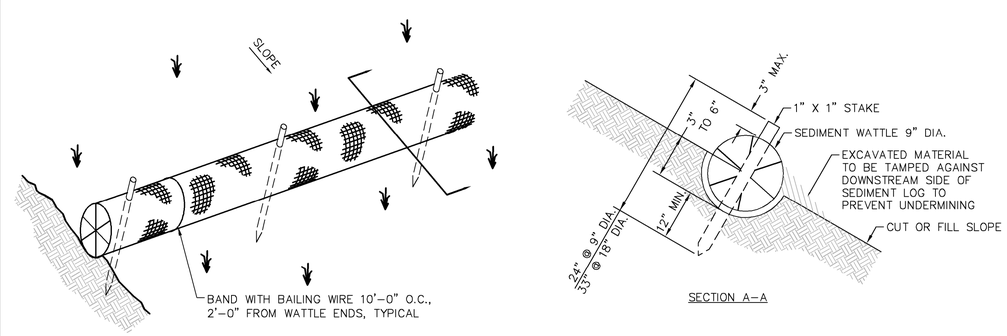
6. ALL DIMENSIONS SHOWN ON THE PLANS ARE SCHEMATIC. IF ACTUAL DIMENSIONS VARY IN THE FIELD, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK IN THE AREA IN QUESTION.



1 C2.3 VEHICLE TRACKING CONTROL PAD
OR APPROVED ALTERNATE
N.T.S.



2 C2.3 DRAINAGE INLET PROTECTION
N.T.S.



3 C2.3 SEDIMENT WATTLE INSTALLATION
N.T.S.

NORTH

GRAPHIC SCALE IN FEET
0 50 100 200

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COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

CITY OF COOLIDGE ARIZONA

COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 STORMWATER POLLUTION PREVENTION PLAN

BASE BID

PROJECT NO. 191593007

DRAWING NAME 191593007SWM.dwg

C2.3

SHEET NO. 7 OF 45

K:\PHX_Aviation\191593007 Coolidge OnCall Task\CADD\191593007SWM.dwg Jul 06, 2016 brandon.robinson
XREF'S: x191593007TB x191593007PS x191593007BM x191593007AL x191593007VF c191593007AL
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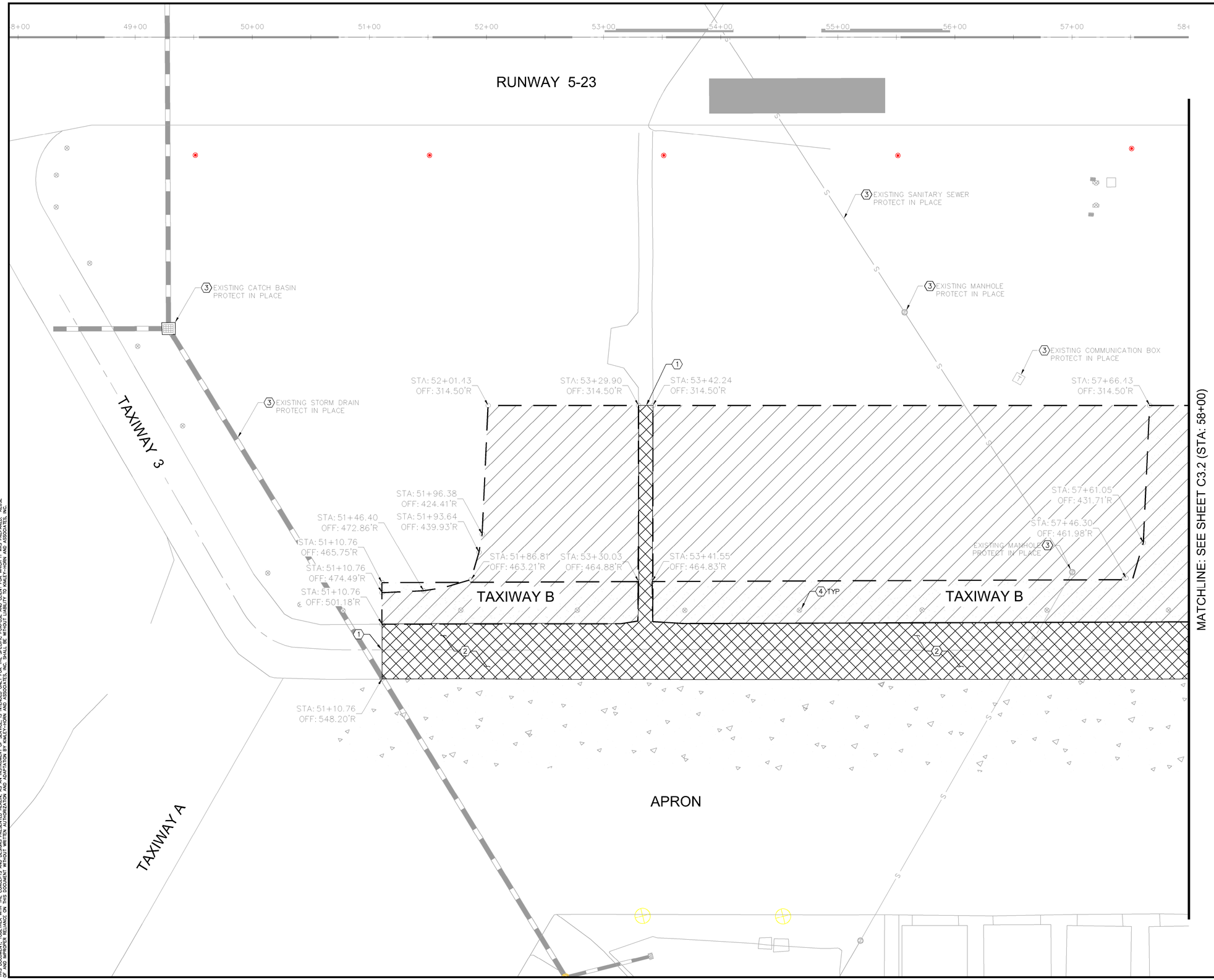

LEGEND

- FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
- BASE BID CLEARING AND GUB
- ALT 1 CLEARING AND GRUB
- ALT 2 CLEARING AND GRUB
- GRADING 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 C1.4 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 TAXIWAY G CENTERLINE STATIONING.

CONSTRUCTION NOTES

1. SAWCUT EXISTING AC PAVEMENT
2. FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
3. PROTECT IN PLACE
4. REFER TO ELECTRICAL SHEETS

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

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CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
DEMOLITION PLAN
BASE BID

PROJECT NO. 191593007

DRAWING NAME 191593007DM.dwg

C3.1

SHEET NO. 8 OF 45

K:\PHX_Aviation\191593007 Coolidge OnCall Task4\CADD\191593007DM.dwg Jul 06, 2016 brandon.robinson
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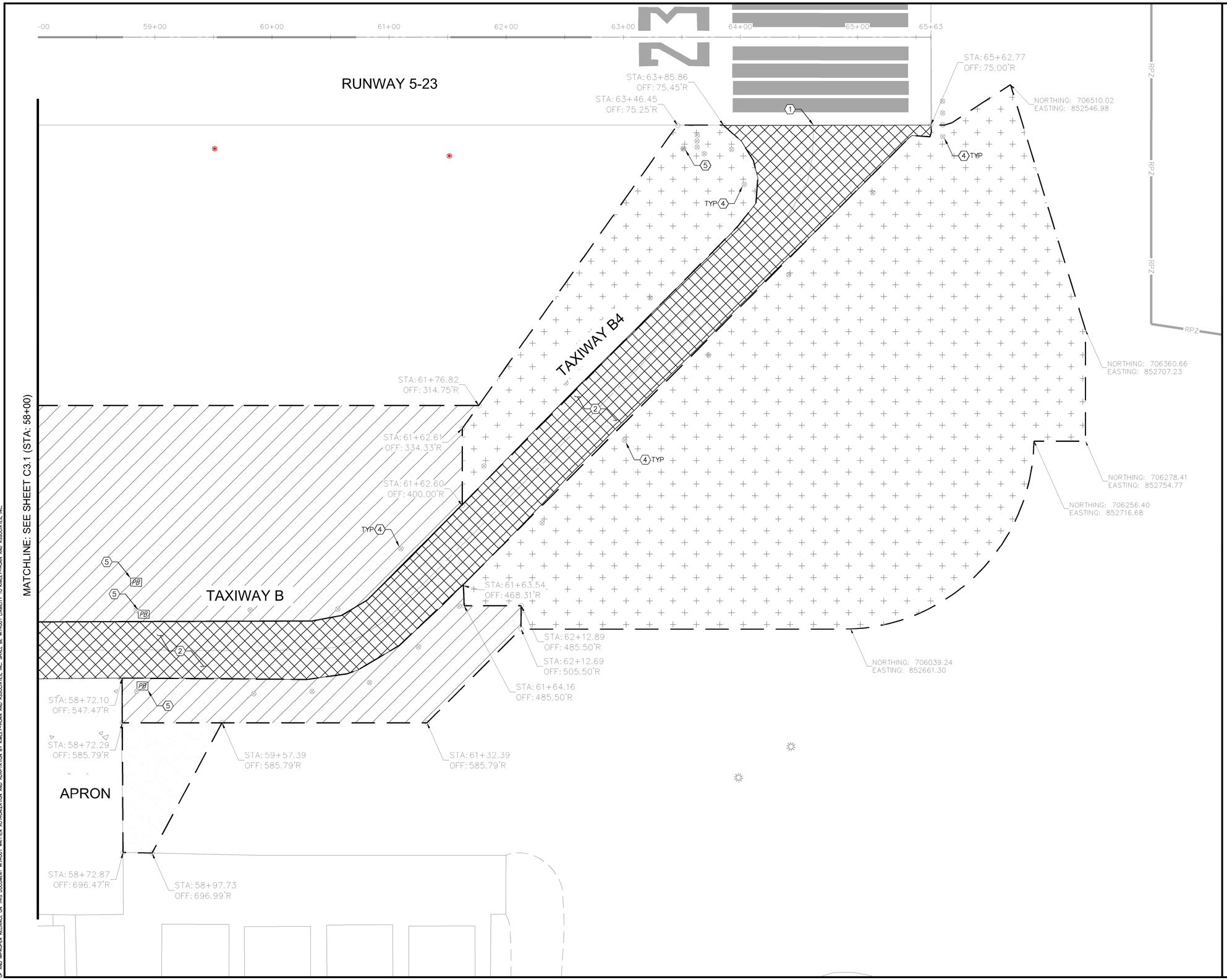

LEGEND

- FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
- BASE BID CLEARING AND GUB
- ALT 1 CLEARING AND GRUB
- ALT 2 CLEARING AND GRUB
- GRADING LIMITS

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4. DOUBLE SAWCUT IS REQUIRED ALONG PCC REMOVAL LIMITS TO PROTECT EXISTING PCC PAVEMENT TO REMAIN.
5. STATIONING IS BASED ON TAXIWAY G CENTERLINE STATIONING.

CONSTRUCTION NOTES

1. SAWCUT EXISTING AC PAVEMENT
2. FULL DEPTH AC PAVEMENT REMOVAL BY MILLING
3. PROTECT IN PLACE
4. REFER TO ELECTRICAL SHEETS

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COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 DEMOLITION PLAN BASE BID

PROJECT NO. 191593007

DRAWING NAME 191593007DM.dwg

C3.2

SHEET NO. 9 OF 45

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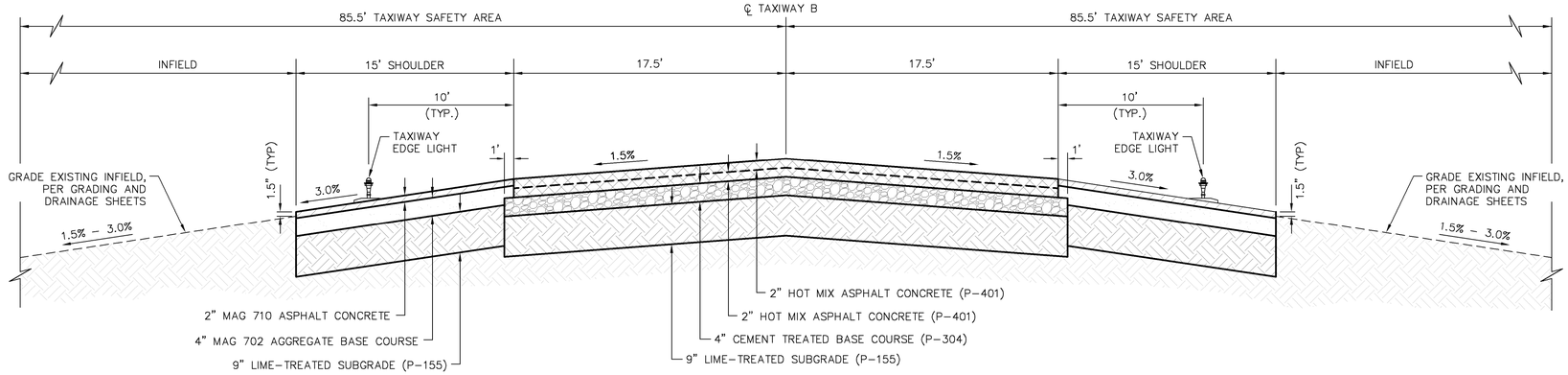
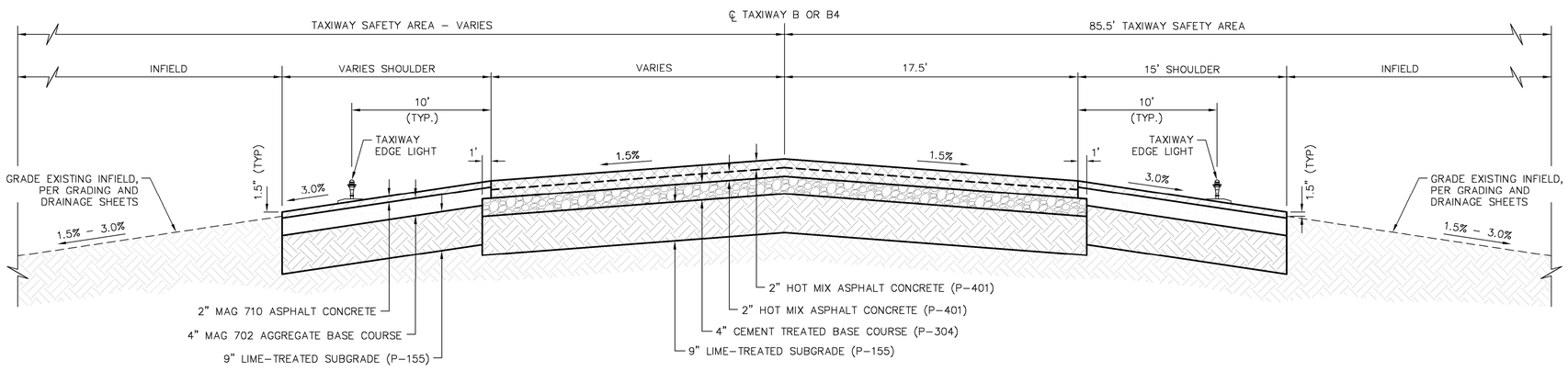


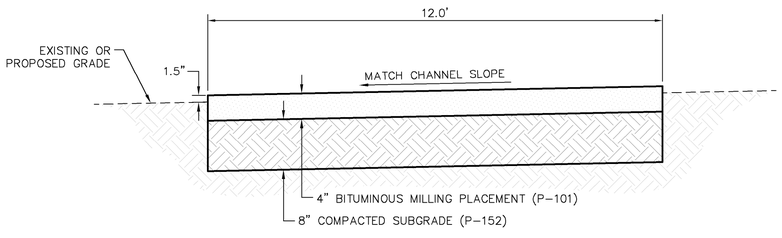
1 / C4.1 TAXIWAY B TYPICAL SECTION (STA. 161+62.61 TO STA. 162+37.27)

N.T.S.



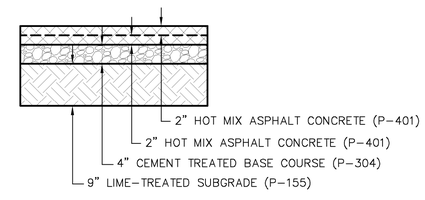
2 / C4.1 TAXIWAY TYPICAL SECTION
(TWY B: STA.162+37.27 TO STA. 164+85.77)
(TWY B4: STA. 40+60.00 TO STA. 43+25.00)

N.T.S.



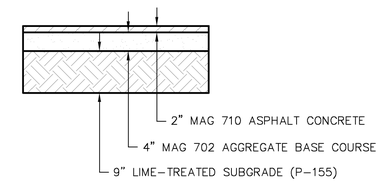
3 / C4.2 TYPICAL SECTION
AT GRADE SERVICE ROAD CROSSING

N.T.S.



TYPICAL TAXIWAY PAVEMENT SECTION

N.T.S.



TYPICAL SHOULDER PAVEMENT SECTION

N.T.S.

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COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
TYPICAL SECTION
BASE BID

PROJECT NO. 191593007

DRAWING NAME 191593007TX.dwg

C4.1

SHEET NO. 10 OF 45

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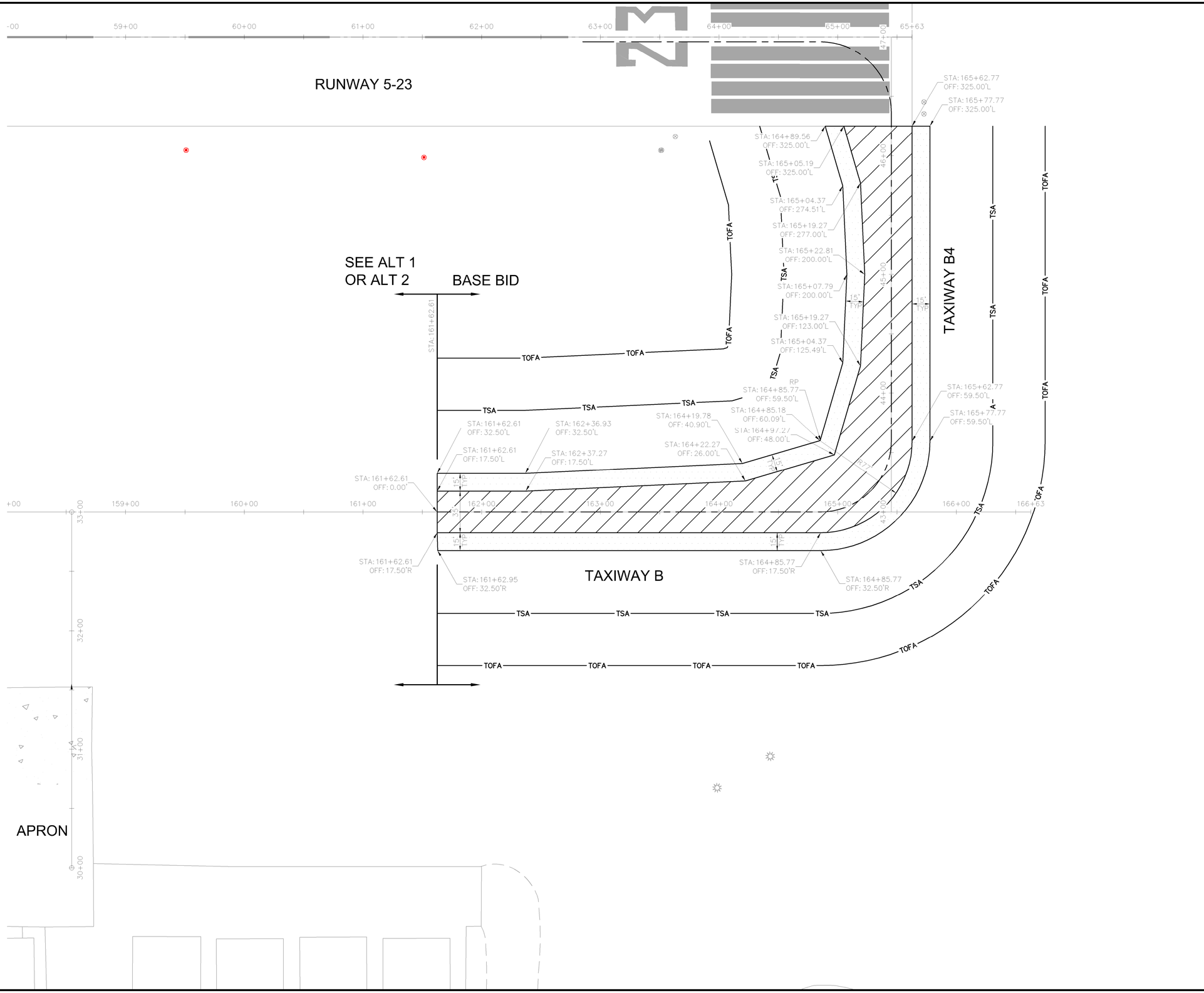

LEGEND

- AC PAVEMENT (P-401)
- AC PAVEMENT SHOULDER (MAG-710)
- MILLINGS PLACEMENT

CONSTRUCTION NOTES:

1. REFER TO SHEETS C4.1 FOR TYPICAL SECTIONS.
2. REFER TO SHEETS C6.1 THRU C6.5 FOR PAVING PLAN AND PROFILE.
3. REFER TO SHEETS C10.3 THRU C10.1 FOR PAVEMENT MARKING PLAN.
4. REFER TO ELECRTICAL LAYOUT PLANS FOR AIRFIELD LIGHTING AND SIGNING SYSTEM (NOT SHOWN).

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

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Blue Stake, Inc.
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CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

CITY OF COOLIDGE ARIZONA

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
GEOMETRIC LAYOUT PLAN
BASE BID

PROJECT NO.
191593007

DRAWING NAME
191593007GL.dwg

C5.1

SHEET NO. 11 OF 45

K:\PHX_Aviation\191593007 Coolidge OnCall Task4\CADD\191593007GL.dwg Jul 06, 2016 brandon.robinson
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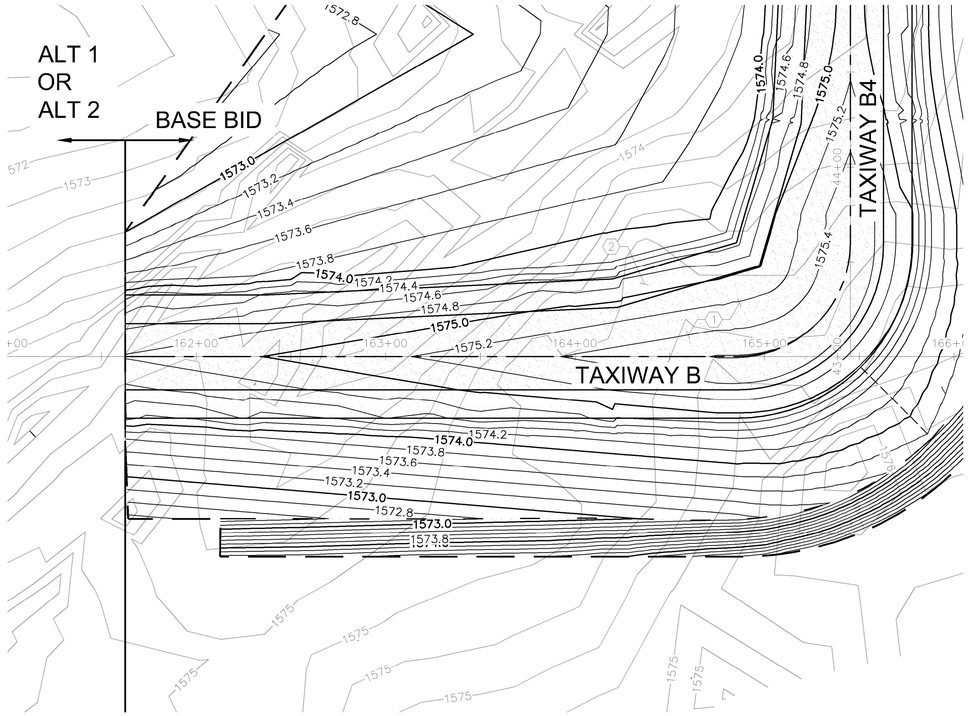

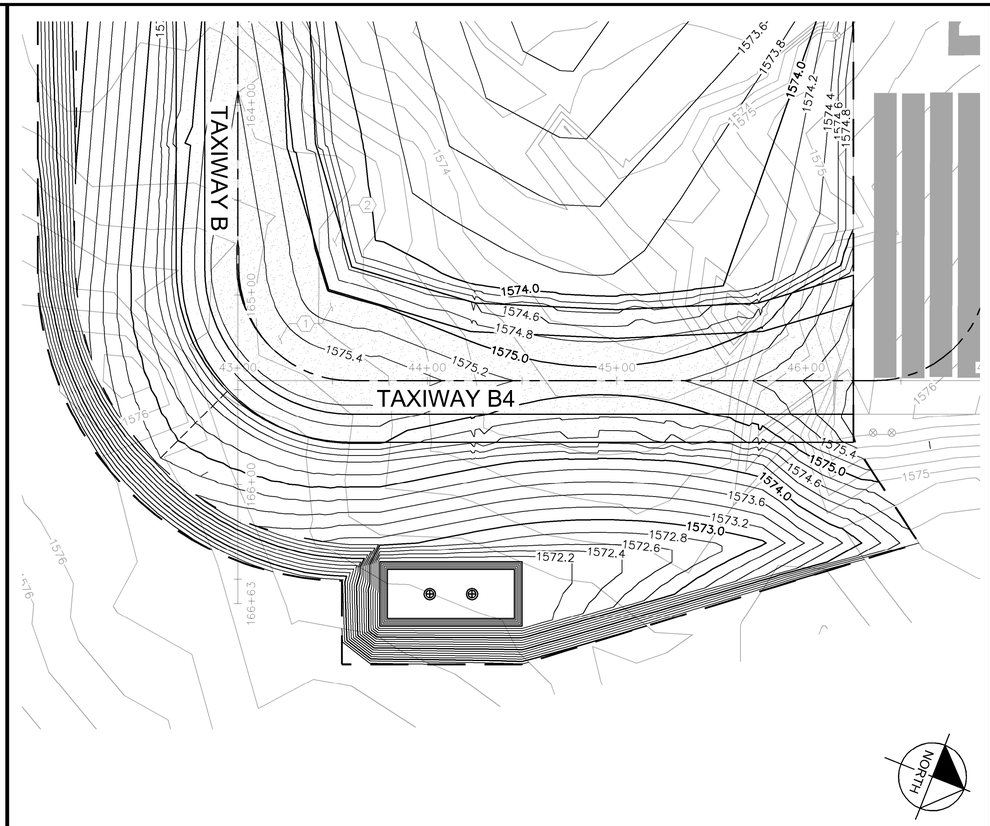

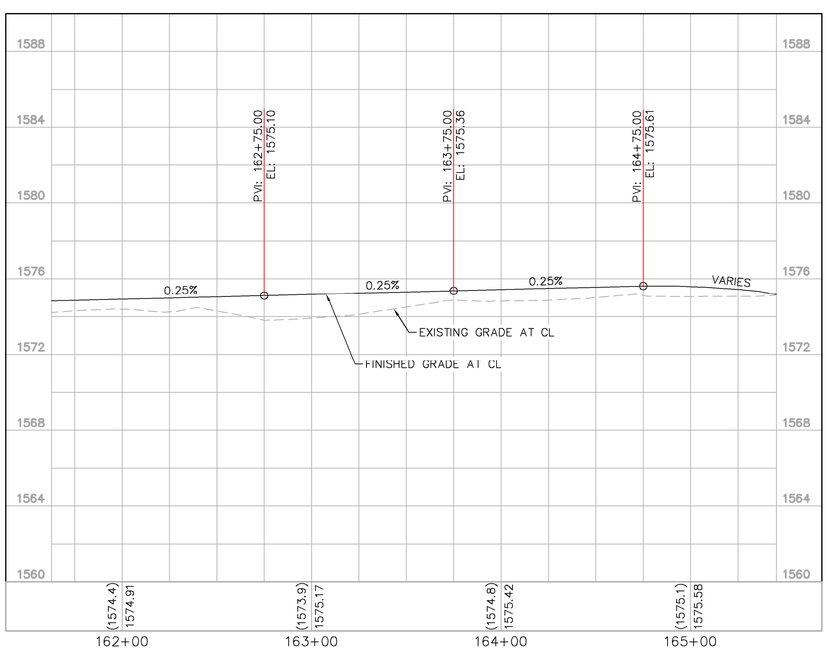

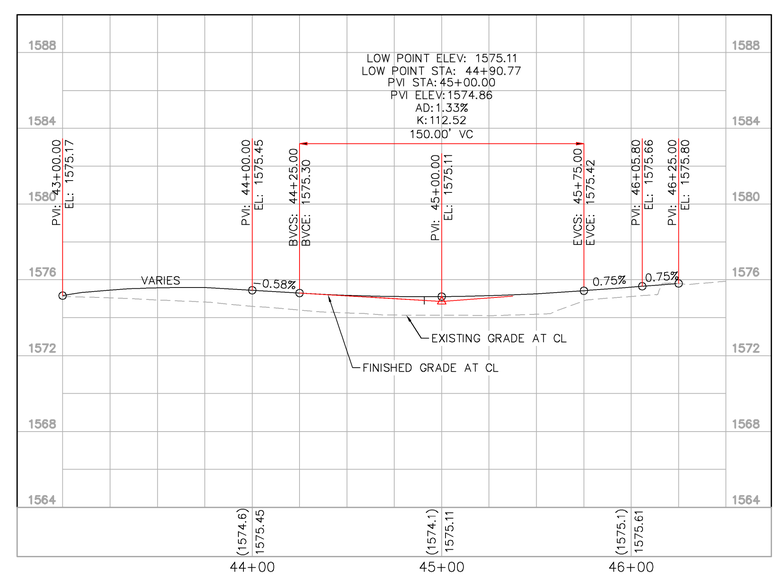

LEGEND

- AC PAVEMENT (P-401)
- AC PAVEMENT SHOULDER (MAG-710)
- MILLINGS PLACEMENT

GENERAL NOTES:

1. REFER TO SHEET C4.1 THRU C4.3 FOR TYPICAL SECTIONS.
2. REFER TO SHEETS C5.1 THRU C5.4 FOR GEOMETRIC LAYOUT.
3. REFER TO PAVEMENT MARKING SHEETS C10.1 THRU C10.5 FOR TAXIWAY AND SHOULDER STRIPING.
4. REFER TO ELECTRICAL PLAN SHEETS FOR AIRFIELD LIGHTING.
5. SEE SHEET C1.4 FOR CENTERLINE ALIGNMENT DEFINITION.

CONSTRUCTION NOTES:

1. AC PAVEMENT
2. ASPHALT SHOULDER PAVEMENT

GRAPHIC SCALE IN FEET
0 20 40 80

NO.	REVISION	DATE

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Phoenix, Arizona 85020 (602) 944-5500

Registered Professional Engineer (Civil)
CERTIFICATE NO. 53933
BRIAN LEVI GALL
Date Signed 07.6.16
ARIZONA, U.S.A.
Exp. Date 12/31/18

SCALE (H):
SCALE (V):
DESIGNED BY: BLG
DRAWN BY: BLR
CHECKED BY: BLG
DATE: 07/01/16

COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
PLAN AND PROFILE
BASE BID

PROJECT NO.
191593007

DRAWING NAME
191593007PP.dwg

C6.1

SHEET NO. 12 OF 45

Call at least two full working days before you begin excavation.
ARIZONA 811
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County (602) 263-1100

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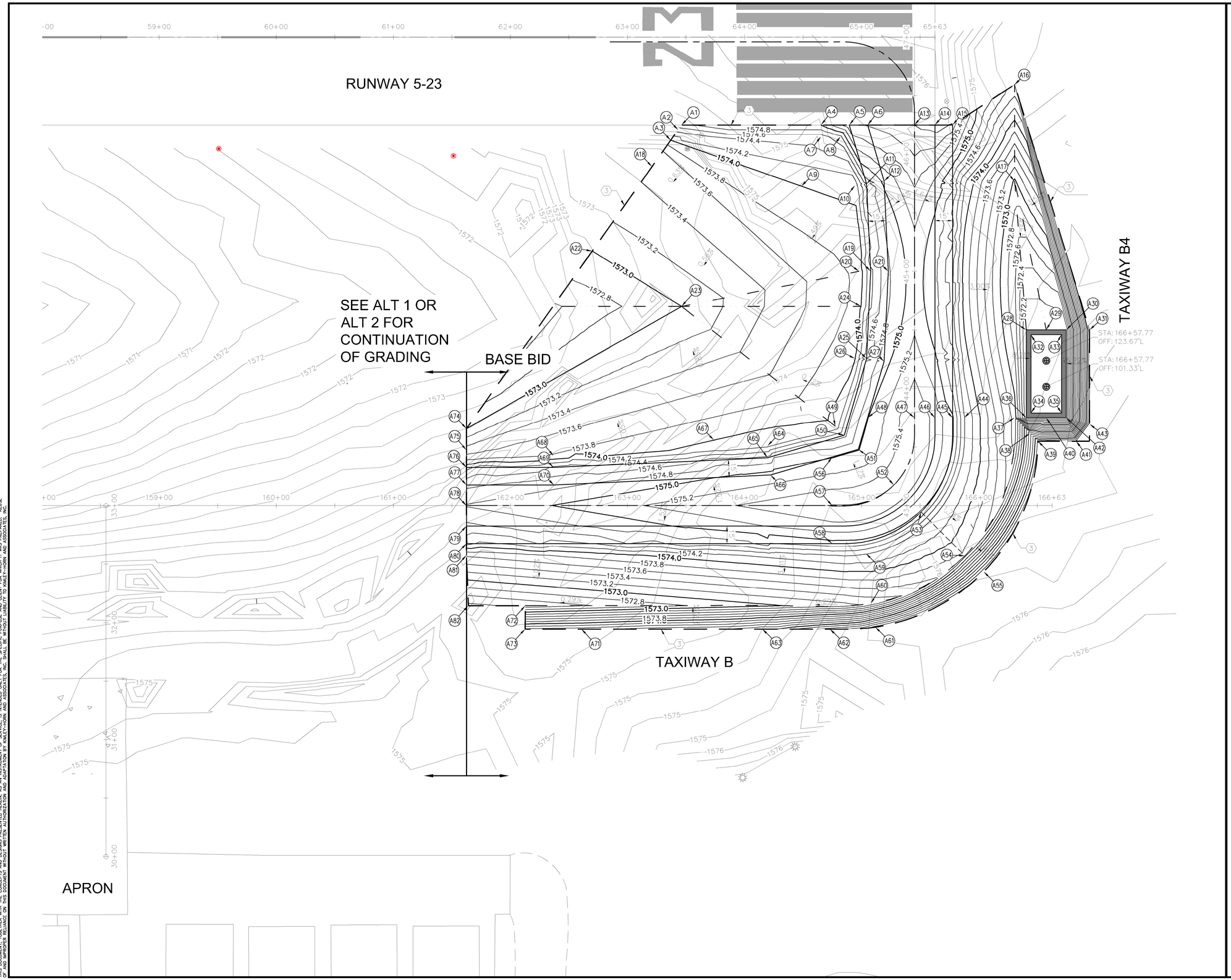

LEGEND

- AC PAVEMENT (P-401)
- AC PAVEMENT SHOULDER (MAG 710)
- MILLINGS PLACEMENT
- 1350 EXISTING CONTOUR
- 1350 PROPOSED CONTOUR
- X.XX% SLOPE DIRECTION
- GRADING LIMITS
- GRADE BREAK
- FLOW LINE
- PROPOSED SPOT ELEVATION
- PROPOSED DRYWELL
- EXISTING CATCH BASIN
- EXISTING TAXIWAY EDGE LIGHTS
- EXISTING COMMUNICATION BOX
- EXISTING CACTUS
- EXISTING SANITARY SEWER MANHOLE
- S EXISTING SANITARY SEWER
- EXISTING STORM DRAIN PIPE

GENERAL NOTES:

1. REFER TO SHEET C1.4 FOR HORIZONTAL AND VERTICAL CONTROL
2. CONTRACTOR SHALL MATCH EXISTING PAVEMENT ELEVATIONS AS SHOWN ON PLAN. IF EXISTING ELEVATIONS DIFFER FROM THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
3. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.
4. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK IN ANY AREA.
5. ALL STATIONS AND OFFSETS REFER TO THE APPROPRIATE RUNWAY OR TAXIWAY STATIONING.
6. DESIGN CONTOURS REPRESENT FINISHED GRADE (PAVEMENT AND GRADING). CONTOURS AND PERCENT OF SLOPE ARE APPROXIMATE AND ARE SHOWN AS SUPPLEMENTAL INFORMATION ONLY.

CONSTRUCTION NOTES:

REFER TO SHEET C7.2 FOR SPOT ELEVATION TABLES.

1. INSTALL DRYWELL
2. EXISTING STRUCTURE TO REMAIN PROTECTED IN PLACE
3. MATCH EXISTING GRADE
4. ADJUST EXISTING SANITARY SEWER STRUCTURE, SEE DETAILS ON SHEET C7.7

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

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NO.	REVISION	DATE

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COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 GRADING AND DRAINAGE BASE BID

PROJECT NO. 191593007
DRAWING NAME 191593007GD.dwg
C7.1
SHEET NO. C7.1 OF 45

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(A#)	ELEVATION CONTROL POINT		
DESCRIPTION	NORTHING	EASTING	ELEVATION
A1	706337.78	852317.94	1574.64
A2	706332.76	852317.48	1574.50
A3	706321.84	852316.47	1574.00
A4	706397.39	852421.07	1575.00
A5	706409.49	852441.99	1575.55
A6	706417.31	852455.52	1575.61
A7	706388.74	852426.07	1574.50
A8	706397.08	852440.51	1574.75
A9	706343.69	852432.80	1573.91
A10	706367.23	852472.03	1574.10
A11	706373.18	852480.08	1574.73
A12	706382.80	852491.73	1575.05
A13	706437.36	852490.22	1575.80
A14	706446.12	852505.37	1575.89
A15	706453.63	852518.36	1575.70
A16	706510.02	852546.98	1574.51
A17	706438.59	852588.27	1572.96
A18	706294.36	852313.93	1573.50
A19	706310.39	852520.33	1574.35
A20	706305.38	852511.67	1573.85
A21	706317.90	852533.33	1574.78
A22	706206.42	852305.80	1573.00
A23	706203.59	852395.51	1573.00
A24	706280.26	852528.16	1574.00
A25	706244.16	852554.65	1574.61
A26	706239.16	852545.99	1573.98
A27	706249.46	852568.80	1574.92
A28	706333.64	852660.48	1572.00
A29	706342.15	852675.20	1572.00
A30	706350.66	852689.92	1572.00
A31	706360.66	852707.23	1575.23
A32	706332.18	852665.94	1571.00
A33	706345.19	852688.45	1570.91
A34	706274.17	852699.47	1571.00
A35	706287.18	852721.98	1571.00
A36	706268.71	852698.01	1572.00
A37	706263.70	852689.35	1573.12
A38	706258.83	852707.57	1574.54
A39	706256.40	852716.68	1575.26
A40	706277.21	852712.73	1572.00
A41	706272.68	852744.85	1575.45

(A#)	ELEVATION CONTROL POINT		
DESCRIPTION	NORTHING	EASTING	ELEVATION
A42	706285.72	852727.45	1572.00
A43	706290.94	852747.53	1575.50
A44	706242.19	852652.12	1574.41
A45	706237.18	852643.46	1575.03
A46	706229.68	852630.48	1575.33
A47	706220.92	852615.33	1575.59
A48	706200.86	852580.63	1574.99
A49	706180.76	852560.20	1574.05
A50	706177.94	852570.77	1574.55
A51	706173.52	852587.28	1574.99
A52	706162.40	852628.85	1575.60
A53	706153.95	852660.45	1574.98
A54	706140.26	852711.65	1573.75
A55	706136.69	852732.28	1575.77
A56	706156.72	852571.27	1574.99
A57	706120.82	852592.02	1575.61
A58	706092.68	852608.28	1574.92
A59	706099.79	852637.37	1574.42
A60	706064.88	852662.46	1573.25
A61	706049.35	852675.75	1575.90
A62	706028.48	852643.08	1575.50
A63	705999.59	852593.10	1575.00
A64	706137.29	852518.74	1573.46
A65	706128.60	852523.74	1574.66
A66	706116.94	852533.36	1575.09
A67	706118.58	852476.56	1574.00
A68	706038.48	852364.63	1573.82
A69	706029.82	852369.63	1574.44
A70	706017.01	852377.44	1574.74
A71	705922.26	852459.30	1574.50
A72	705915.63	852407.88	1572.46
A73	705898.22	852417.71	1574.44
A74	706021.36	852288.69	1573.00
A75	706005.42	852297.90	1573.50
A76	705992.63	852305.29	1574.00
A77	705979.65	852312.80	1574.50
A78	705964.50	852321.56	1574.82
A79	705949.34	852330.31	1259.50
A80	705936.36	852337.82	1574.25
A81	705927.68	852342.83	1573.63
A82	705891.25	852365.69	1572.34

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COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

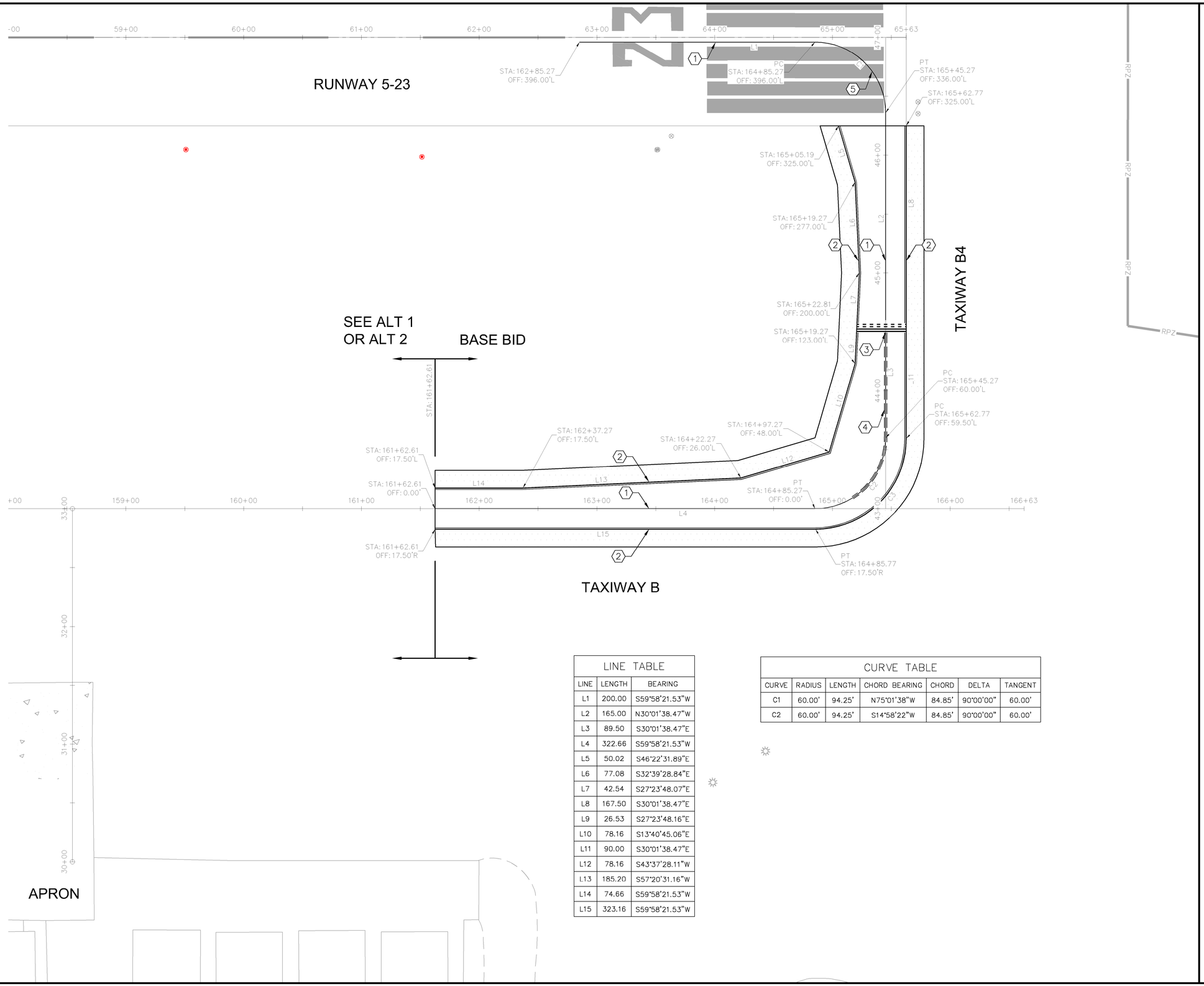
CITY OF COOLIDGE ARIZONA

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
GRADING AND DRAINAGE
BASE BID

PROJECT NO.
191593007

DRAWING NAME
191593007GD.dwg

C7.2



GENERAL NOTES

1. PAVEMENT MARKINGS 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 AC, THE AC SHALL TAKE PRECEDENCE.
2. CONTRACTOR SHALL SURVEY THE EXISTING PAVEMENT MARKINGS PRIOR TO CONSTRUCTION. PROPOSED PAVEMENT MARKINGS SHALL TIE INTO THE EXISTING MARKINGS AT THE LIMITS OF THE PROJECT PER THE EXISTING SURVEYED MARKINGS. PROPOSED MARKINGS SHALL BE INSTALLED PER THE DIMENSIONS SHOWN ON THE PAVEMENT MARKING PLANS/DETAILS. ALL OTHER MARKINGS SHALL BE RE-INSTALLED PER THEIR EXISTING SURVEYED LOCATIONS.

CONSTRUCTION NOTES:

1. INSTALL SIX INCH (6") WIDE TAXIWAY CENTERLINE PAVEMENT MARKING, PER DETAIL 1 SHEET C10.2.
2. INSTALL DOUBLE SIX INCH (6") WIDE TAXIWAY EDGE PAVEMENT MARKING, PER DETAIL 2 SHEET C10.2.
3. INSTALL RUNWAY HOLDING POSITION MARKING, PER DETAIL 3 SHEET C10.2.
4. INSTALL ENHANCED TAXIWAY CENTERLINE PAVEMENT MARKING. PER DETAIL 3 SHEET C10.2.
5. INSTALL SIX INCH (6") SOLID YELLOW RUNWAY/TAXIWAY INTERSECTION MARKINGS PER DETAIL 4, SHEET C10.2.
6. INSTALL DOUBLE SIX INCH (6") WIDE DASHED TAXIWAY EDGE PAVEMENT MARKING, PER DETAIL 5 SHEET C10.2.
7. MATCH EXISTING

NOTE: IF PROPOSED MARKINGS ON EXISTING PAVEMENT DO NOT CORRESPOND WITH EXISTING MARKINGS, EXISTING MARKINGS SHALL BE OBLITERATED (ITEM 620). LIMITS OF OBLITERATION TO BE COORDINATED WITH INSPECTOR PRIOR TO OBLITERATION.

LINE TABLE

LINE	LENGTH	BEARING
L1	200.00	S59°58'21.53"W
L2	165.00	N30°01'38.47"W
L3	89.50	S30°01'38.47"E
L4	322.66	S59°58'21.53"W
L5	50.02	S46°22'31.89"E
L6	77.08	S32°39'28.84"E
L7	42.54	S27°23'48.07"E
L8	167.50	S30°01'38.47"E
L9	26.53	S27°23'48.16"E
L10	78.16	S13°40'45.06"E
L11	90.00	S30°01'38.47"E
L12	78.16	S43°37'28.11"W
L13	185.20	S57°20'31.16"W
L14	74.66	S59°58'21.53"W
L15	323.16	S59°58'21.53"W

CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	60.00'	94.25'	N75°01'38"W	84.85'	90°00'00"	60.00'
C2	60.00'	94.25'	S14°58'22"W	84.85'	90°00'00"	60.00'

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NORTH

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COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 PAVEMENT MARKING PLAN BASE BID

PROJECT NO.
191593007

DRAWING NAME
191593007PM.dwg

C10.1

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1 C10.2 TAXIWAY CENTERLINE PAVEMENT MARKING

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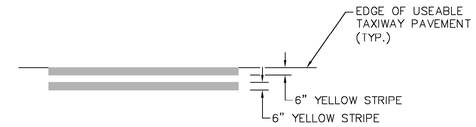
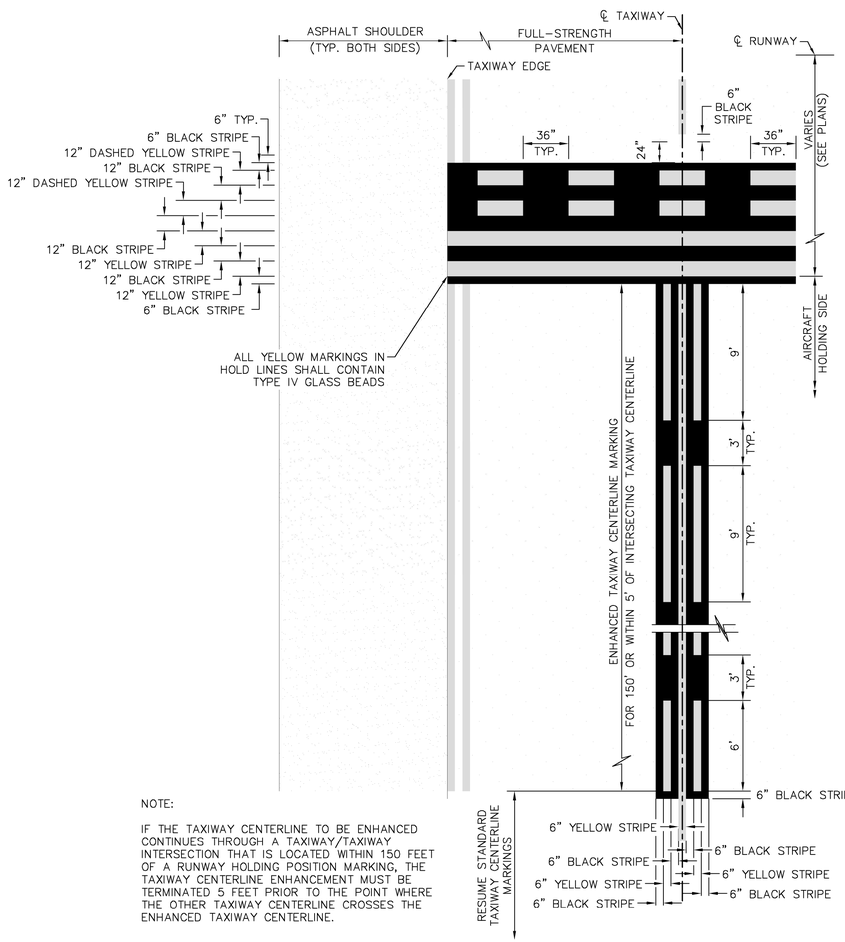


2 C10.2 TAXIWAY EDGE PAVEMENT MARKING

N.T.S.

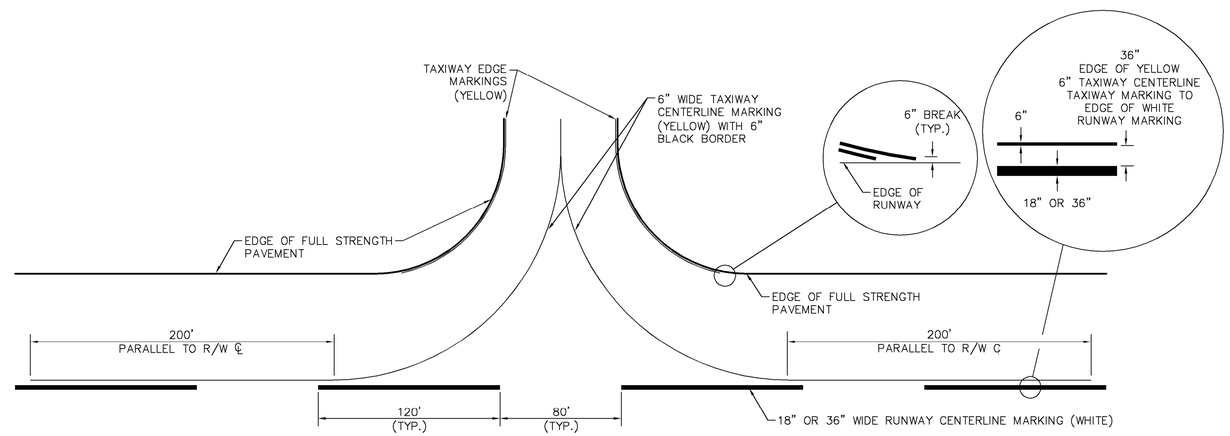


NOTE:

IF THE TAXIWAY CENTERLINE TO BE ENHANCED CONTINUES THROUGH A TAXIWAY/TAXIWAY INTERSECTION THAT IS LOCATED WITHIN 150 FEET OF A RUNWAY HOLDING POSITION MARKING, THE TAXIWAY CENTERLINE ENHANCEMENT MUST BE TERMINATED 5 FEET PRIOR TO THE POINT WHERE THE OTHER TAXIWAY CENTERLINE CROSSES THE ENHANCED TAXIWAY CENTERLINE.

3 C10.2 ENHANCED RUNWAY HOLDING POSITION PAVEMENT MARKING DETAIL

N.T.S.

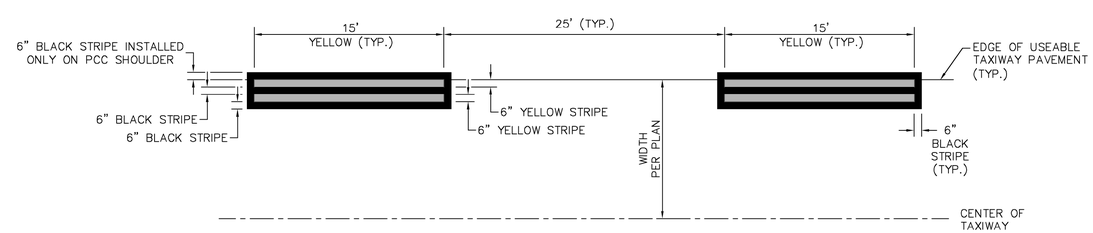


NOTE:

RUNWAY CENTERLINE DIMENSIONS ARE TYPICAL UNLESS NOTED OTHERWISE ON THE PLANS

4 C10.2 **RUNWAY/TAXIWAY INTERSECTION DETAIL**

N.T.S.



5 C10.2 DASHED TAXIWAY EDGE PAVEMENT MARKINGS

N.T.S.

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GROWTH MANAGEMENT
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COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 PAVEMENT MARKING DETAILS BASE BID

PROJECT NO. 191593007

DRAWING NAME 191593007MX.dwg

C10.2

SHEET NO. 16 OF 45

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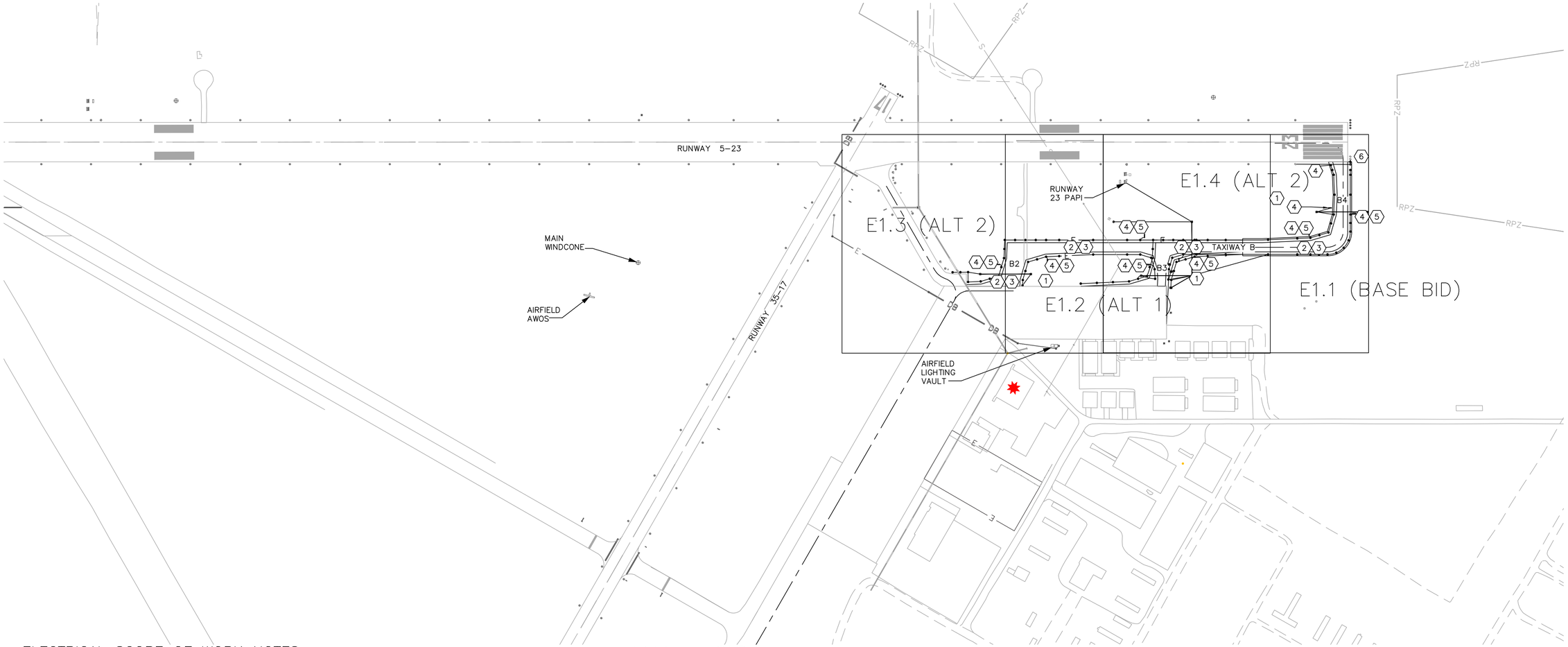


ELECTRICAL SCOPE OF WORK NOTES

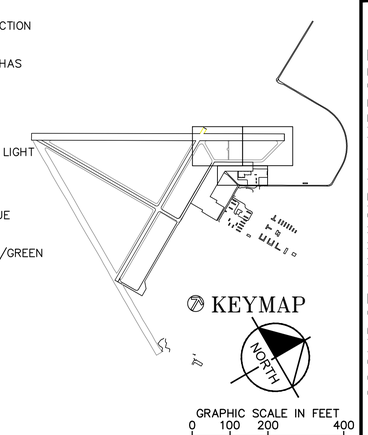
1. ALONG BOTH SIDES OF TWY 'B' AND TWY 'B4' AND THE NORTHERN EDGE OF THE RAMP REMOVE EXISTING LIGHTS, SIGN AND BASES, DUCTBANKS, CONDUITS, CABLES, ETC. IN AREAS OF RECONSTRUCTION AND REMOVE FROM THE SITE. SALVAGE LIGHTS, SIGNS AND ISOLATION TRANSFORMERS TO AIRPORT.
2. PROVIDE AND INSTALL NEW ELEVATED TAXIWAY EDGE LIGHTS, BASES & CONDUIT ALONG BOTH SIDES OF REALIGNED TWY 'B' AND TWYS 'B2', 'B3' AND 'B4'.
3. FOR ALTERNATE BIDS 1A AND 2A, PROVIDE AND INSTALL NEW ELEVATED RETROREFLECTIVE MARKERS ALONG BOTH SIDES OF REALIGNED TWY 'B' AND TWYS 'B2', 'B3' AND 'B4'.
4. PROVIDE AND INSTALL NEW LIGHTED GUIDANCE SIGNS ALONG REALIGNED TWY 'B' AND TWYS 'B2', 'B3' AND 'B4'.
5. FOR ALTERNATE BIDS 1A AND 2A, PROVIDE AND INSTALL NEW UNLIGHTED GUIDANCE SIGN ALONG REALIGNED TWY 'B' AND TWYS 'B2', 'B3' AND 'B4'.
6. SALVAGE EXISTING R/W END LIGHTS FOR REINSTALLATION IN NEW PAVEMENT AREA.

ABBREVIATIONS

ATCT	AIR TRAFFIC CONTROL TOWER
BORE	DIRECTIONAL BORE
C, CNDT	CONDUIT
C.E.	CONCRETE ENCASED
D.B.	DIRECT EARTH BURIAL
(E)	EXISTING EQUIPMENT OR FACILITY
FAA	FEDERAL AVIATION ADMINISTRATION
LED	LIGHT EMITTING DIODE
MIRL	MEDIUM INTENSITY RUNWAY LIGHTS
MITL	MEDIUM INTENSITY TAXIWAY LIGHTS
(N)	NEW EQUIPMENT OR FACILITY
PB	PULL BOX (L–115)
P.O.C.	POINT OF CONNECTION (WITH EXISTING CONDUIT OR DUCT)
PR	PROPOSED (NEW) EQUIPMENT OR FACILITY OR PAIR (E.G 12–PR)
PVC	POLYVINYLCHLORIDE: CONDUIT MATERIAL
(R)	REMOVE EQUIPMENT OR FACILITY
(R/R)	REMOVE AND RELOCATE EQUIPMENT OR FACILITY
RSA	RUNWAY SAFETY AREA
R/W, RWY	RUNWAY
R1, R2	RUNWAY LIGHTING CIRCUIT DESIGNATION
TSA	TAXIWAY SAFETY AREA
T/W, TWY	TAXIWAY
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED

SYMBOL LIST

R2	NEW CONDUIT W/ CIRCUIT FILL INFORMATION.
1 2" (N) POWER (PR) R1 D.B.	NEW CONDUIT OR DUCT W/ DETAIL DESIGNATION AND CIRCUIT FILL INFORMATION. (I.E. QUANTY OF ONE 2" CONDUITS IN A DIRECT BURIED TRENCH SECTION WITH CIRCUIT R1 INSTALLED.
	EXISTING DUCT SECTIONS AND CIRCUIT FILLS. U.O.N. EXISTING DUCT HAS EXISTING CIRCUITS IN IT.
	DIRECTIONAL BORE
(N)HH	CONCRETE HANDHOLE
R–XX	L–852D IN–PAVEMENT BI–DIRECTIONAL MEDIUM INTENSITY R/W END LIGHT WITH RED/GREEN LEDS
J–XX	L–867 BASE CAN WITH BLANK LOAD RATED COVER
TB–XX	L–861T ELEVATED MEDIUM INTENSITY LED T/W EDGE LIGHT WITH BLUE OMNI–DIRECTIONAL LENS
R2–XX	L–861E ELEVATED MEDIUM INTENSITY LED R/W END LIGHT WITH RED/GREEN LENS
S–XX TS	AIRFIELD GUIDANCE SIGN
	LIGHTED WINDCONE
1	NEW WORK CONSTRUCTION NOTE



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CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
ELECTRICAL SCOPE OF WORK

PROJECT NO. 191842000

DRAWING NAME

E1.0 OF 45

K:\RENO_Aviation\191593007-Coolidge Twy B Rehab\05 CADD\PlanSheets\x191593007_E0.dwg Jul 06, 2016 dene.eapmi
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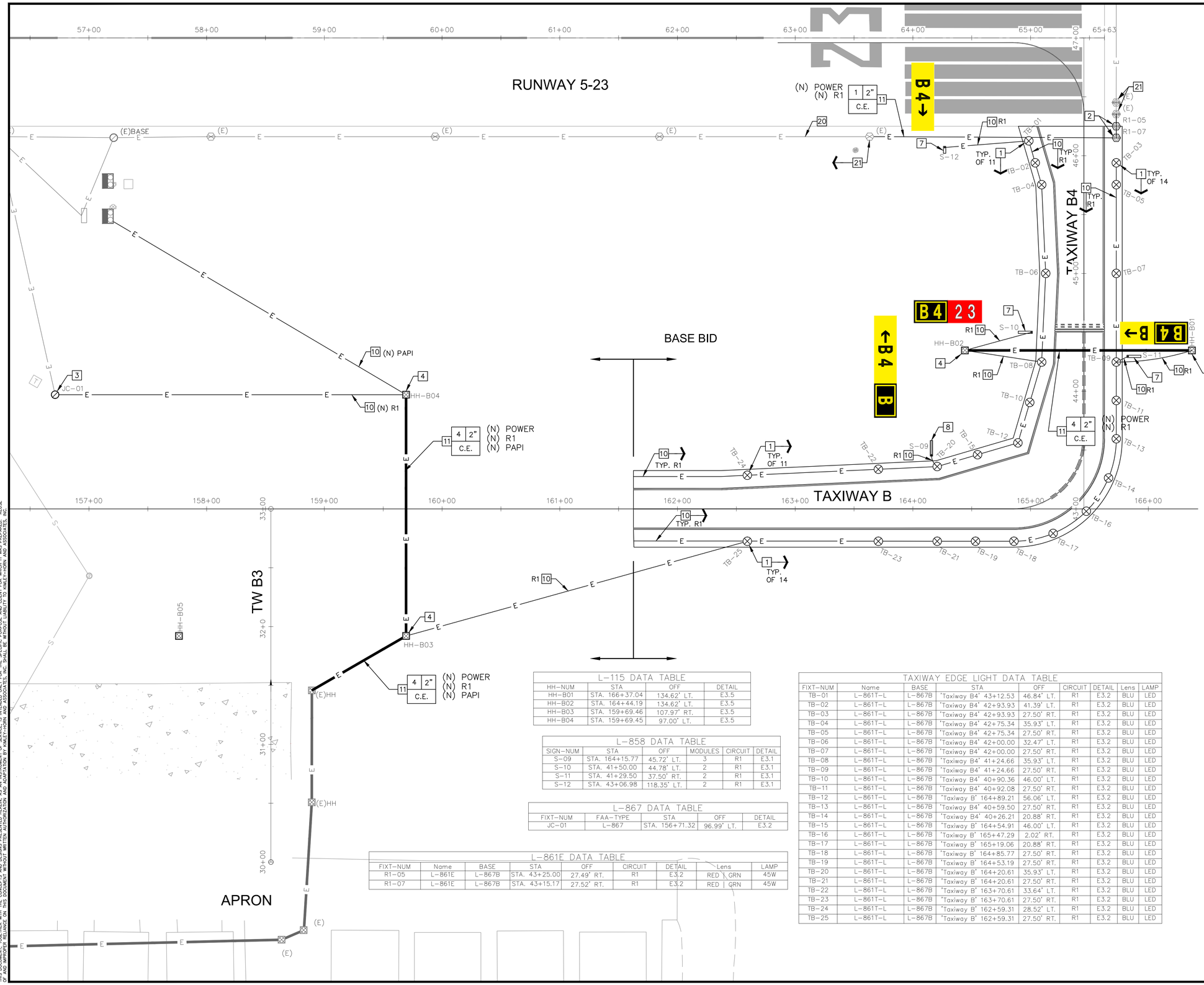


CONSTRUCTION NOTES

1. PROVIDE AND INSTALL NEW L-861T LED MEDIUM INTENSITY TAXIWAY EDGE LIGHT ON NEW L-867B BASECAN WITH NEW ISOLATION TRANSFORMER AND CABLES. SEE E3.2 FOR DETAIL.
2. SALVAGE AND REINSTALL L-861E MEDIUM INTENSITY RUNWAY END LIGHT ON NEW L-867B BASECAN WITH NEW ISOLATION TRANSFORMER AND CABLES. SEE E3.2 FOR DETAIL.
3. PROVIDE AND INSTALL NEW L-867B BASECAN TO INTERCEPT THE RUNWAY HOMERUN CIRCUIT. SEE E3.6 FOR DETAIL.
4. PROVIDE AND INSTALL NEW CONCRETE HANDHOLE AND CONNECT TO NEW AIRFIELD DUCTBANK. SEE E3.5 FOR DETAIL.
7. PROVIDE AND INSTALL NEW SIZE 1, 2-MODULE LED AIRFIELD GUIDANCE SIGN ON NEW CONCRETE BASE WITH NEW L-867B BASECAN AND NEW ISOLATION TRANSFORMER AND CABLES. SEE E3.1 FOR DETAIL.
8. PROVIDE AND INSTALL NEW SIZE 1, 3-MODULE LED AIRFIELD GUIDANCE SIGN ON NEW CONCRETE BASE WITH NEW L-867B BASECAN AND NEW ISOLATION TRANSFORMER AND CABLES. SEE E3.1 FOR DETAIL.
10. INSTALL NEW DIRECT BURIAL CONDUIT. INSTALL NEW CIRCUIT PER CIRCUIT MAPS.
11. INSTALL NEW CONCRETE ENCASED CONDUIT. INSTALL NEW CIRCUIT PER CIRCUIT MAPS.
20. PROTECT EXISTING CONDUIT OR DUCT IN PLACE AT LIMITS OF NEW CONSTRUCTION. REPLACE CABLE BACK TO NEAREST EXISTING HANDHOLE OR FIXTURE BASE.
21. PROTECT EXISTING FIXTURE AND BASE IN PLACE.

GENERAL NOTES

1. FOR ALTERNATE BIDS 1A AND 2A, PROVIDE AND INSTALL NEW ELEVATED RETROREFLECTIVE MARKERS AT L-861T LOCATIONS AS PER THE DATA TABLES.
2. FOR ALTERNATE BIDS 1A AND 2A, PROVIDE AND INSTALL NEW UNLIGHTED GUIDANCE SIGNS AT L-858 LOCATIONS AS PER THE DATA TABLES.

L-115 DATA TABLE

HH-NUM	STA	OFF	DETAIL
HH-B01	STA. 166+37.04	134.62' LT.	E3.5
HH-B02	STA. 164+44.19	134.62' LT.	E3.5
HH-B03	STA. 159+69.46	107.97' RT.	E3.5
HH-B04	STA. 159+69.45	97.00' LT.	E3.5

L-858 DATA TABLE

SIGN-NUM	STA	OFF	MODULES	CIRCUIT	DETAIL
S-09	STA. 164+15.77	45.72' LT.	3	R1	E3.1
S-10	STA. 41+50.00	44.78' LT.	2	R1	E3.1
S-11	STA. 41+29.50	37.50' RT.	2	R1	E3.1
S-12	STA. 43+06.98	118.35' LT.	2	R1	E3.1

L-867 DATA TABLE

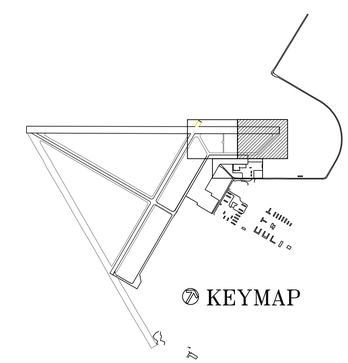
FIXT-NUM	FAA-TYPE	STA	OFF	DETAIL
JC-01	L-867	STA. 156+71.32	96.99' LT.	E3.2

L-861E DATA TABLE

FIXT-NUM	Name	BASE	STA	OFF	CIRCUIT	DETAIL	Lens	LAMP
R1-05	L-861E	L-867B	STA. 43+25.00	27.49' RT.	R1	E3.2	RED | GRN	45W
R1-07	L-861E	L-867B	STA. 43+15.17	27.52' RT.	R1	E3.2	RED | GRN	45W

TAXIWAY EDGE LIGHT DATA TABLE

FIXT-NUM	Name	BASE	STA	OFF	CIRCUIT	DETAIL	Lens	LAMP
TB-01	L-861T-L	L-867B	'Taxiway B4' 43+12.53	46.84' LT.	R1	E3.2	BLU	LED
TB-02	L-861T-L	L-867B	'Taxiway B4' 42+93.93	41.39' LT.	R1	E3.2	BLU	LED
TB-03	L-861T-L	L-867B	'Taxiway B4' 42+93.93	27.50' RT.	R1	E3.2	BLU	LED
TB-04	L-861T-L	L-867B	'Taxiway B4' 42+75.34	35.93' LT.	R1	E3.2	BLU	LED
TB-05	L-861T-L	L-867B	'Taxiway B4' 42+75.34	27.50' RT.	R1	E3.2	BLU	LED
TB-06	L-861T-L	L-867B	'Taxiway B4' 42+00.00	32.47' LT.	R1	E3.2	BLU	LED
TB-07	L-861T-L	L-867B	'Taxiway B4' 42+00.00	27.50' RT.	R1	E3.2	BLU	LED
TB-08	L-861T-L	L-867B	'Taxiway B4' 41+24.66	35.93' LT.	R1	E3.2	BLU	LED
TB-09	L-861T-L	L-867B	'Taxiway B4' 41+24.66	27.50' RT.	R1	E3.2	BLU	LED
TB-10	L-861T-L	L-867B	'Taxiway B4' 40+90.36	46.00' LT.	R1	E3.2	BLU	LED
TB-11	L-861T-L	L-867B	'Taxiway B4' 40+92.08	27.50' RT.	R1	E3.2	BLU	LED
TB-12	L-861T-L	L-867B	'Taxiway B' 164+89.21	56.06' LT.	R1	E3.2	BLU	LED
TB-13	L-861T-L	L-867B	'Taxiway B4' 40+59.50	27.50' RT.	R1	E3.2	BLU	LED
TB-14	L-861T-L	L-867B	'Taxiway B4' 40+26.21	20.88' RT.	R1	E3.2	BLU	LED
TB-15	L-861T-L	L-867B	'Taxiway B' 164+54.91	46.00' LT.	R1	E3.2	BLU	LED
TB-16	L-861T-L	L-867B	'Taxiway B' 165+47.29	2.02' RT.	R1	E3.2	BLU	LED
TB-17	L-861T-L	L-867B	'Taxiway B' 165+19.06	20.88' RT.	R1	E3.2	BLU	LED
TB-18	L-861T-L	L-867B	'Taxiway B' 164+85.77	27.50' RT.	R1	E3.2	BLU	LED
TB-19	L-861T-L	L-867B	'Taxiway B' 164+53.19	27.50' RT.	R1	E3.2	BLU	LED
TB-20	L-861T-L	L-867B	'Taxiway B' 164+20.61	35.93' LT.	R1	E3.2	BLU	LED
TB-21	L-861T-L	L-867B	'Taxiway B' 164+20.61	27.50' RT.	R1	E3.2	BLU	LED
TB-22	L-861T-L	L-867B	'Taxiway B' 163+70.61	33.64' LT.	R1	E3.2	BLU	LED
TB-23	L-861T-L	L-867B	'Taxiway B' 163+70.61	27.50' RT.	R1	E3.2	BLU	LED
TB-24	L-861T-L	L-867B	'Taxiway B' 162+59.31	28.52' LT.	R1	E3.2	BLU	LED
TB-25	L-861T-L	L-867B	'Taxiway B' 162+59.31	27.50' RT.	R1	E3.2	BLU	LED



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COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 BASE BID ELECTRICAL LAYOUT

PROJECT NO. 191842000

DRAWING NAME

E1.1 OF 45

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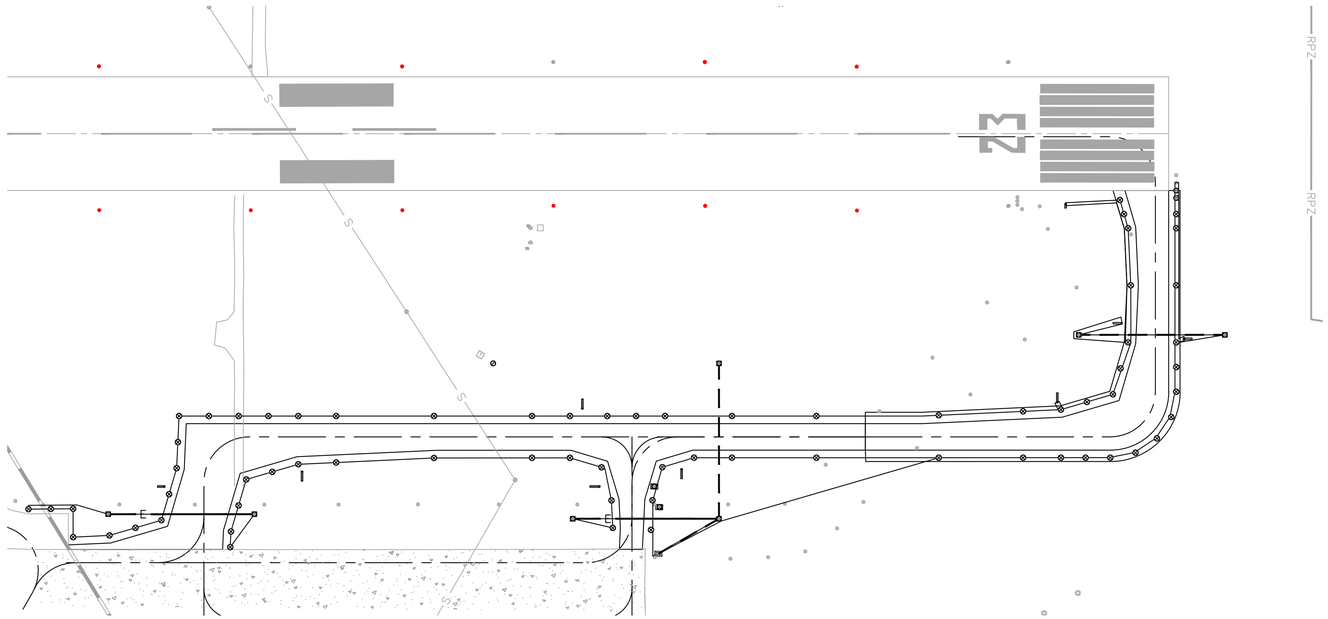
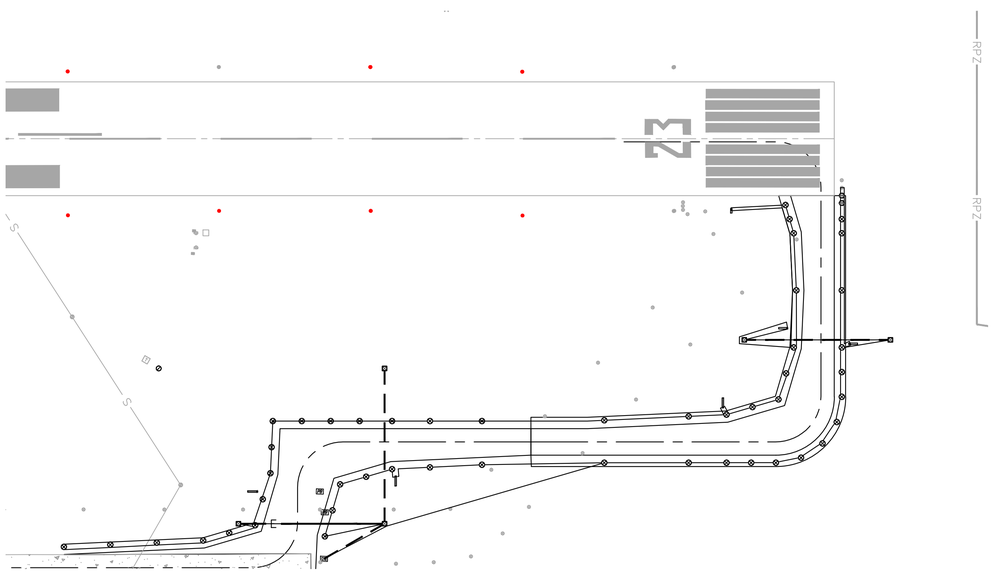
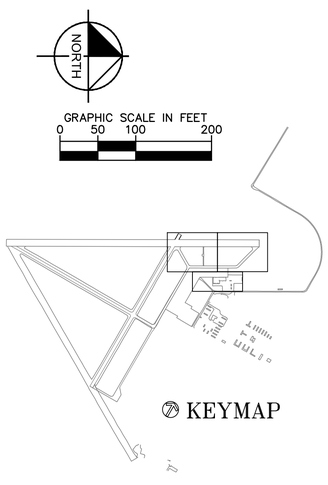


CIRCUIT 'R1' BASE + ALT 2 DATA TABLE				
QUANTITY	ITEM DESC.	FT./ITEM *		TOTAL LENGTH
7	HANDHOLE	x 2*16 '	=	224 '
2	L-861/E	x 6'	=	12 '
10	L-858 SIGNS	x 6'	=	60 '
68	L-861T	x 6 '	=	408 '
* SLACK CABLE PER SPECS				
	ITEM TOTAL LENGTH		=	704 '
	+ PLAN CIRCUIT LENGTH		=	6296 '
	TOTAL CIRCUIT LENGTH			7000'
INSTALLED IN THIS PROJECT				7000 '



CIRCUIT 'R1'-BASE + ALT1 DATA TABLE				
QUANTITY	ITEM DESC.	FT./ITEM *		TOTAL LENGTH
6	HANDHOLE	x 2*16 '	=	192 '
2	L-861/E, L-852	x 6'	=	12 '
7	L-858 SIGNS	x 6'	=	42 '
48	L-861T	x 6 '	=	288 '
* SLACK CABLE PER SPECS				
	ITEM TOTAL LENGTH		=	534 '
	+ PLAN CIRCUIT LENGTH		=	4514 '
	TOTAL CIRCUIT LENGTH			5048'
INSTALLED IN THIS PROJECT				5048 '



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Registered Professional Engineer (Electrical)
31798
ERIC C. LOVEJOY
Date Signed 9/30/16
Arizona U.S.A.
EXPIRES 9/30/17

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CITY OF COOLIDGE
GROWTH MANAGEMENT
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COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
TAXIWAY CIRCUIT MAP

PROJECT NO.
191842000

DRAWING NAME

E2.1 OF 45

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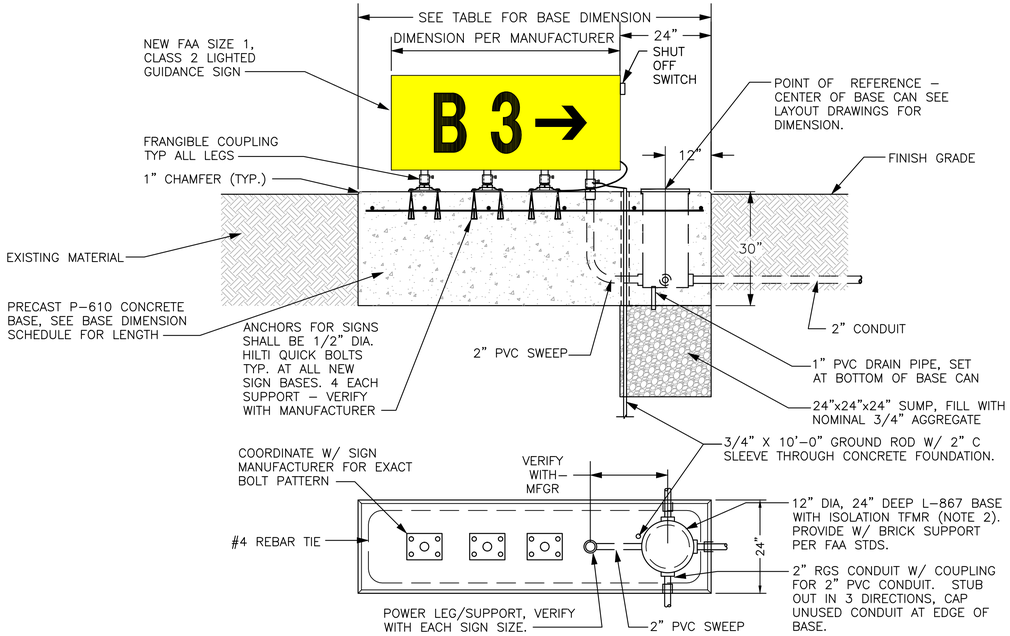

1 T/W GUIDANCE SIGN - BASE DETAIL

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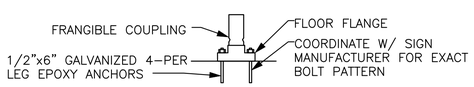

A SIGN MOUNTING LEG

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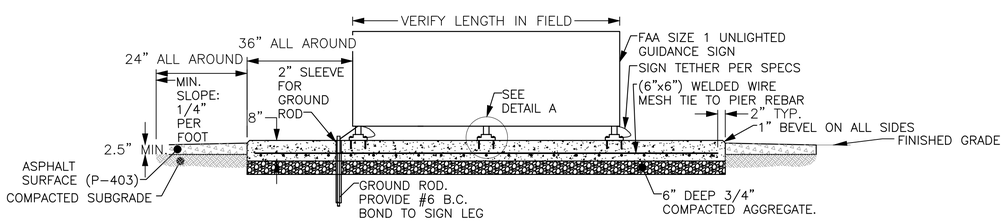


3 UNLIGHTED GUIDANCE SIGN - BASE DETAIL

SCALE: NTS

BASE DIMENSION SCHEDULE

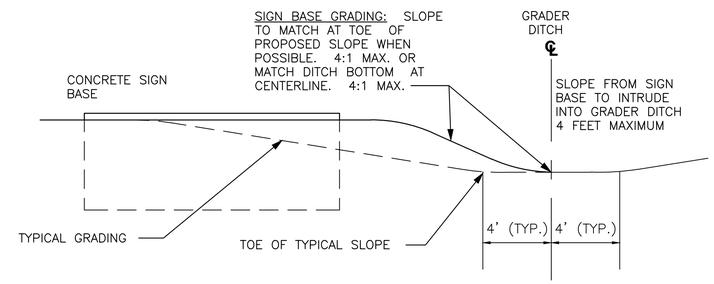
NOTE: REFER TO (DWGS E1 SERIES) FOR INDIVIDUAL SIGN SIZES. COORDINATE EXACT BASE DIMENSIONS WITH SIGN DIMENSIONS.

SIGN SIZE	BASE DIMENSIONS			
	ONE MODULE	TWO MODULE	THREE MODULE	FOUR MODULE
1	70" L x 24" W	100" L x 24" W	130" L x 24" W	160" L x 24" W

SIGN INSTALLATION NOTES:

1. VERIFY ALL DIMENSIONS OF SIGN FACES, SIGN PEDESTALS, AND SIGN FACE SPACING WITH MANUFACTURER BEFORE INSTALLATION.
2. PROVIDE NEW TRANSFORMERS WITH NEW SIGNS, SIZE PER MANUFACTURERS RECOMMENDATIONS.
3. SEE E1 SERIES DRAWINGS FOR SIGN CONTENTS AND LOCATIONS.
4. REFER TO DETAIL 2/E3.1 FOR GRADING DETAIL AROUND SIGN BASES AS REQUIRED TO MEET BASE REVEAL SLOPE REQUIREMENTS.

PLAN



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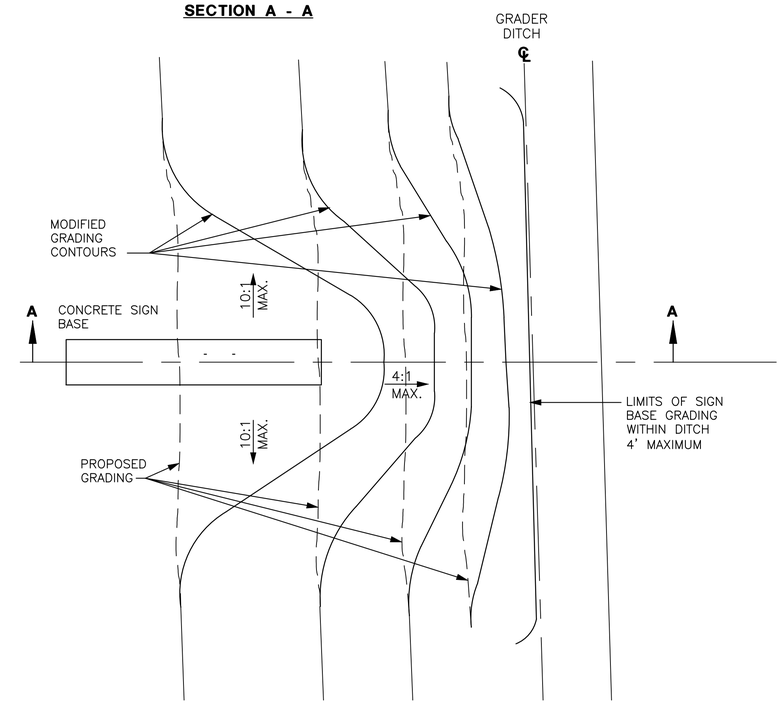

2 GUIDANCE SIGN - GRADING DETAIL

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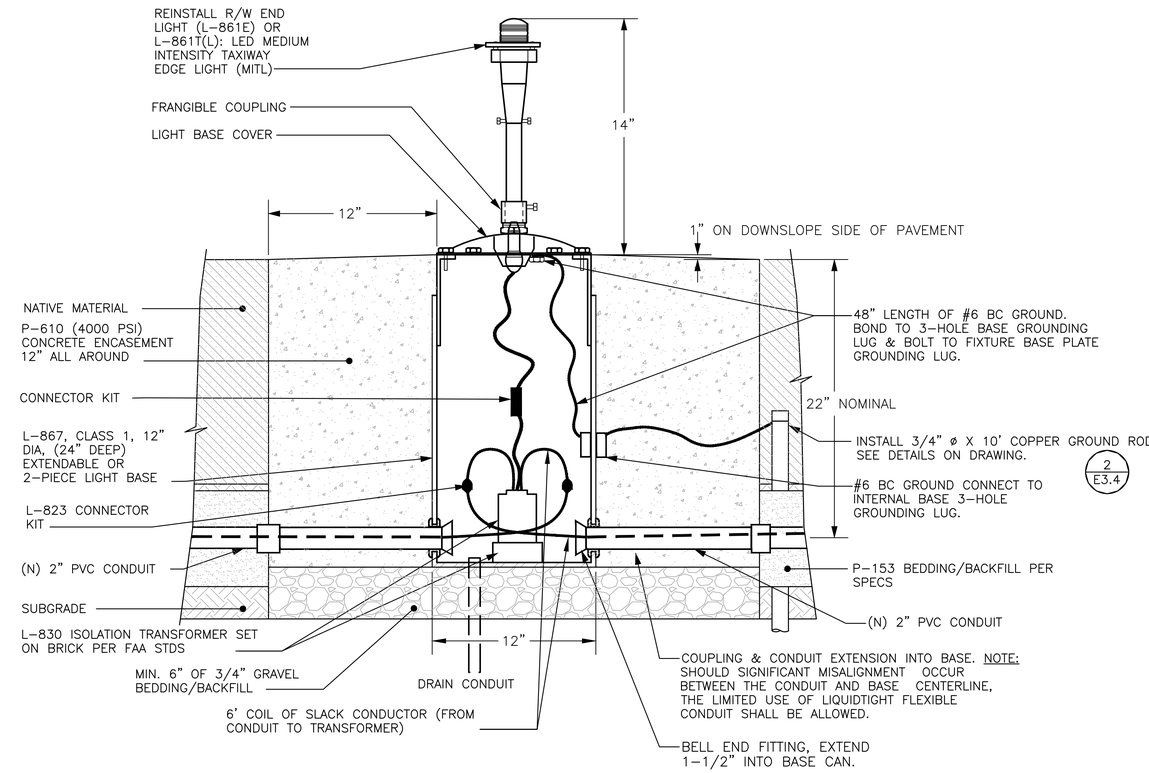
COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
SIGN DETAILS

PROJECT NO. 191842000

DRAWING NAME



1 ELEVATED TAXIWAY EDGE LIGHT DETAIL

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CITY OF COOLIDGE ARIZONA

COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4

RUNWAY EDGE LIGHT DETAILS

PROJECT NO. 191842000

DRAWING NAME

K:\REN_Aviation\191593007-Coolidge Twy B Rehab\05 CADD\PlanSheets\x191593007_E3.dwg Jul 06, 2016 dene.egomi
XREFS: x191593007TB x191593004_KM ECL-AZ-E
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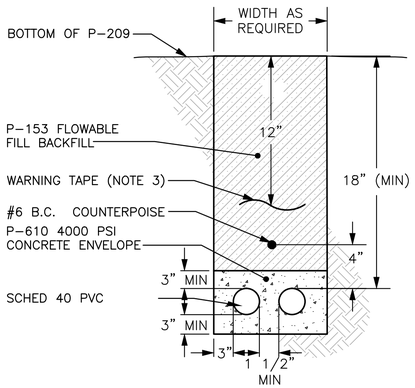
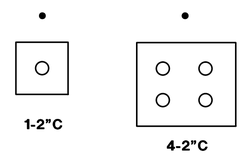
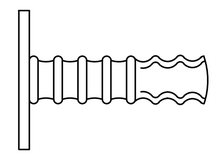




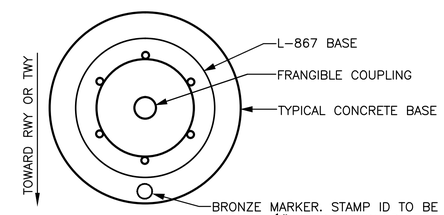
CONFIGURATION IS SHOWN FOR REFERENCE ONLY

1 DUCT SECTION - CONCRETE ENCASED

SCALE: NTS



BRONZE MARKER



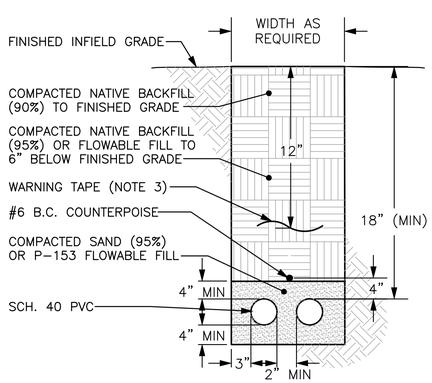
TYP. EDGE LIGHT MARKER LOCATION

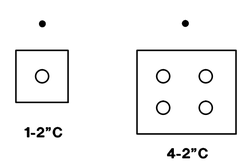
CONDUIT/DUCT & CABLE INSTALLATION NOTES:

1. SEE PLANS FOR REQUIRED DUCT SECTIONS. ALL OF THE SECTIONS SHOWN ON THIS DRAWING MAY NOT BE USED ON THIS PROJECT.
2. PROVIDE PULL WIRES IN ALL (NEW) UNUSED CONDUITS. PLUG ENDS IN HANDHOLES AND MANHOLES.
3. WARNING TAPE REQUIRED WHEN DUCTS ARE INSTALLED IN AREAS NOT BELOW FULL STRENGTH PAVEMENT.
4. 4000 PSI P-610 CONCRETE ENCASE UNDER FULL STRENGTH PAVEMENT AND AS OTHERWISE INDICATED ON PLANS.
5. NOT USED.
6. REFER TO SPECIFICATION ITEM L-110 FOR CONDUIT/DUCT SPACER SYSTEM.
7. INSTALL LIGHTING SERIES CIRCUITS AS FOLLOWS:
   7.1. ONE CIRCUIT (1 OR 2 CONDUCTORS) PER 2"C.

RWY, TWY SIGN MARKER
S-02 = SIGN NUMBER
R1 = CIRCUIT NAME

RWY LIGHTING
R1 = CIRCUIT NAME





CONFIGURATION IS SHOWN FOR REFERENCE ONLY

2 DUCT SECTION - DIRECT BURIED

SCALE: NTS

NOTES:

1. BRONZE MARKERS OR EQUIVALENT TO BE EMBEDDED IN FRESH CONCRETE AT TIME OF POUR. STAMP WITH POWERING CIRCUIT IDENTIFICATION AS SHOWN ON PLANS WHEN CONCRETE IS CURED. PLACE ON RWY & TWY SIDE OF BASE OR AS DIRECTED BY OWNER.
2. ALL LIGHTING CABLES ENTERING OR LEAVING OR PASSING THROUGH A CABLE MANHOLE, HANDHOLE, PULLBOX, OR LIGHTING FIXTURE BASE SHALL BE IDENTIFIED ON EACH SIDE OF EACH L-823 CONNECTOR KIT WITH AN INDIVIDUAL IDENTIFICATION TAG INDICATING EACH LIGHTING CIRCUIT.
3. TAGS SHALL BE NON-FERROUS METAL OF TYPE AND SIZE AS SPECIFIED UNDER ITEM L-109, CONNECT TO CABLE WITH PLASTIC CABLE TIE.
4. IN NO CASE SHALL A LIGHTING CABLE BE PULLED "THROUGH" A HANDHOLE, MANHOLE JUNCTION BOX OR LIGHT BASE. EACH CABLE SHALL BE SPLICED IN EACH MANHOLE, HANDHOLE, JUNCTION BOX AND LIGHT BASE WITH L-823 CONNECTOR KITS AND HEAT-SHRINKABLE SHEATHS AND COLOR CODING.
5. ALL 480V POWER CABLES OR MULTI-PAIR SIGNAL CABLES SHALL BE IDENTIFIED WITH INDIVIDUAL IDENTIFICATION TAGS ONE TIME AS THEY PASS THRU ANY HANDHOLE OR MANHOLE AND ON BOTH SIDES OF THE SPLICES.

4 RWY CABLE TAGS, FIXTURE AND MARKERS

SCALE: NTS

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Registered Professional Engineer (Electrical) CERTIFICATE NO. 31798 ERIC C. LOVEJOY Date Signed 7/06/16 ARIZONA U.S.A. EXPIRES 9/30/17

SCALE (H):
SCALE (V):
DESIGNED BY: ECL
DRAWN BY: JDB
CHECKED BY: DYE
DATE: 07/06/2016

COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

CITY OF COOLIDGE ARIZONA

COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4

TRENCH DETAILS

PROJECT NO. 191842000

DRAWING NAME

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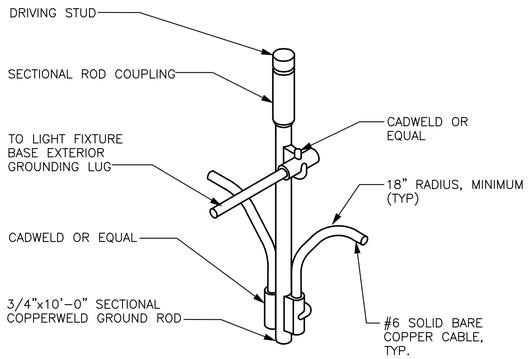
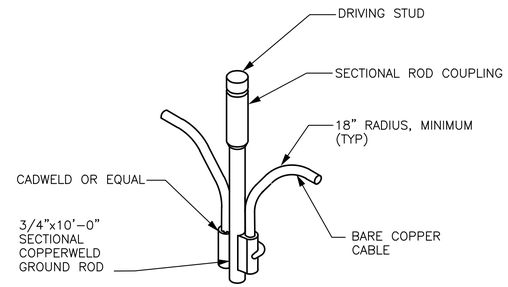


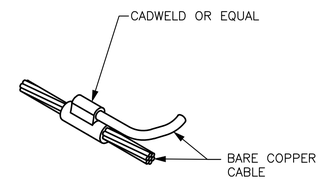
2 EDGE LIGHT GROUNDING DETAIL

SCALE: NTS



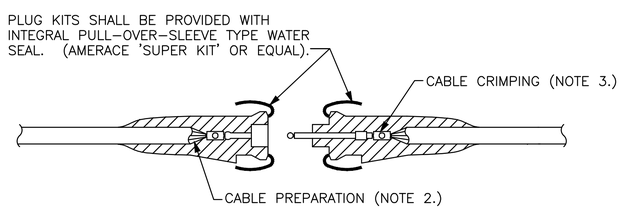
3 COUNTERPOISE SYSTEM GROUND ROD DETAIL

SCALE: NTS



4 COUNTERPOISE SYSTEM GROUNDING DETAIL

SCALE: NTS



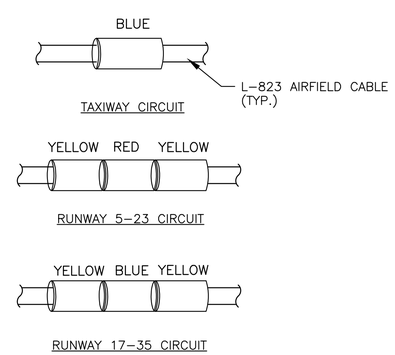
FOR SPLICES INSIDE CAN, JUNCTION BOXES AND HANDHOLES

NOTES:

1. PROVIDE MALE AND FEMALE L-823 CONNECTORS AS REQUIRED ON EACH CONDUCTOR IN EACH BASE OR HANDHOLE IN THE FIELD CIRCUIT. THERE SHALL BE NO SPLICES BETWEEN LIGHTS, ONLY IN BASES OR HANDHOLES. AS MUCH AS PRACTICAL, HOMERUN CIRCUITS FROM THE FIELD CIRCUIT CONNECTION INTO THE MAIN DUCT SYSTEM BACK TO THE AIRFIELD LIGHTING VAULT SHALL BE INSTALLED WITHOUT SPLICES.
2. ALL CABLE ENDS SHALL BE PREPARED PER MANUFACTURE RECOMMENDATIONS.
3. PLUG AND RECEPTACLE END FITTINGS SHALL BE CRIMPED ONTO THE CONDUCTOR BY USE OF AN AIRPORT PERSONNEL ACCEPTED HANDHELD RATCHETING TYPE CRIMPING TOOL. EACH CABLE TERMINATION SHALL BE SECURED BY A MINIMUM OF TWO CRIMPS OR AS PER MANUFACTURER RECOMMENDATIONS.
4. AT THE POINT OF CONNECTION WITH THE EXISTING FIELD CIRCUITS, INSTALL NEW L-823 PLUGS ON BOTH THE NEW AND EXISTING CABLES. VERIFY INSULATION TYPES OF BOTH NEW AND EXISTING CABLES AND COORDINATE WITH TERMINATION KITS TO ASSURE PROPER AND WATERPROOF FIT.

1 "SUPER KIT" TYPICAL 5kV CABLE SPLICE

SCALE: NTS



5 CIRCUIT TAPE LABELING COLOR SCHEME

NOTE: CIRCUIT TO BE TAPE LABELED AND TAGGED
NOTE 2: TAXIWAY CIRCUIT & RUNWAY 5-23 CIRCUIT ARE COMBINED AS CIRCUIT 'R1' ON PLANS BUT SHALL BE TAPED PER LOCATION AS INDICATED ABOVE.

NO.	REVISION	DATE

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REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL) 31798 ERIC C. LOVEJOY ARIZONA U.S.A. EXPIRES 9/30/17

SCALE (H):
SCALE (V):
DESIGNED BY: ECL
DRAWN BY: JDB
CHECKED BY: DYE
DATE: 07/06/2016

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CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

CITY OF COOLIDGE ARIZONA

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
GROUNDING AND CONNECTOR DETAILS

PROJECT NO. 191842000

DRAWING NAME

K:\REN_Aviation\191593007-Coolidge Twy B Rehab\05 CAD\PlanSheets\x191593007_E3.dwg Jul 06, 2016 dene.egami
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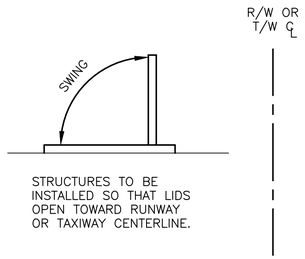
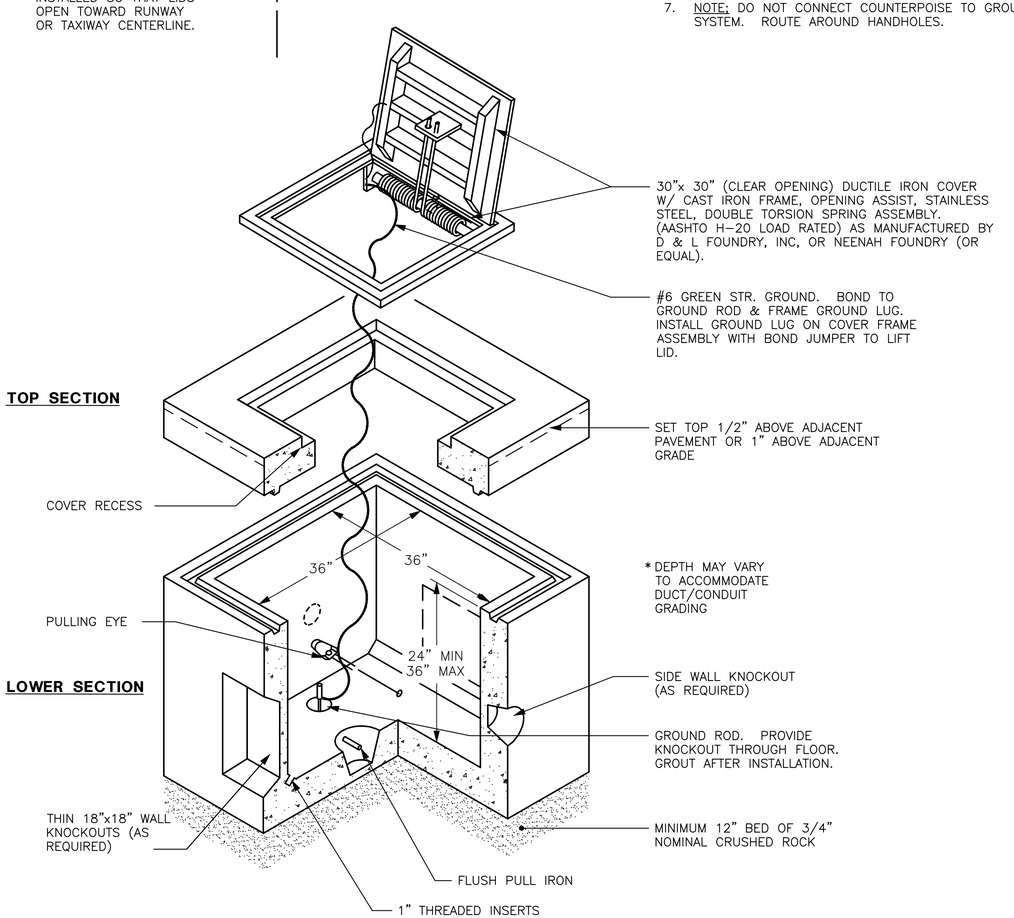


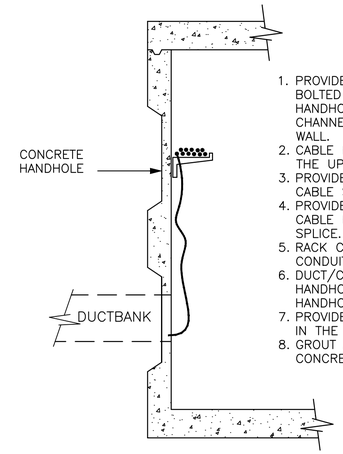
HANDHOLE NOTES:

1. ALL STEEL, OTHER THAN REBAR, TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.
2. PROVIDE ALL HANDHOLES WITH CABLE RACKS & PULING EYES PER SPECS.
3. INSTALL HANDHOLES PARALLEL TO ADJACENT R/W OR T/W CENTERLINE.
4. PROVIDE GROUND ROD FOR EACH HANDHOLE PER SPECS.
5. GROUT ALL CONDUIT PENETRATIONS.
6. PROVIDE MANUFACTURER'S DRAWINGS AND STRUCTURAL CALCULATIONS FOR ALL CONCRETE ELEMENTS OF HANDHOLES AND FABRICATED TRAFFIC LIDS.
7. NOTE: DO NOT CONNECT COUNTERPOISE TO GROUNDING SYSTEM. ROUTE AROUND HANDHOLES.



1 HANDHOLE - TYPE II (AASHTO H-20 LOAD RATED)

SCALE: NTS



1. PROVIDE GALVANIZED STEEL RACK ARMS, BOLTED TO CHANNELS INSET IN HANDHOLE WALLS. PROVIDE MINIMUM (2) CHANNEL INSETS AND ARMS FOR EVERY WALL.
2. CABLE RACKING SHALL BE LIMITED TO THE UPPER HALF OF THE HANDHOLE.
3. PROVIDE CIRCUIT TAGS FOR EVERY L-823 CABLE SPLICE.
4. PROVIDE A MINIMUM OF TEN FEET OF CABLE BETWEEN ENTRY POINT AND L-823 SPLICE.
5. RACK CABLES ON SIDE(S) OF ENTRY/EXIT CONDUITS.
6. DUCT/CONDUIT ARRAY SHALL ENTER HANDHOLE IN LOWER HALF OF THE HANDHOLE.
7. PROVIDE BELL END FOR EVERY CONDUIT IN THE ARRAY.
8. GROUT AROUND/BETWEEN CONDUITS & CONCRETE WALL.

2 CABLE RACKING DETAIL

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EXPIRES 9/30/17

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COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
HANDHOLE DETAILS

PROJECT NO.
191842000

DRAWING NAME

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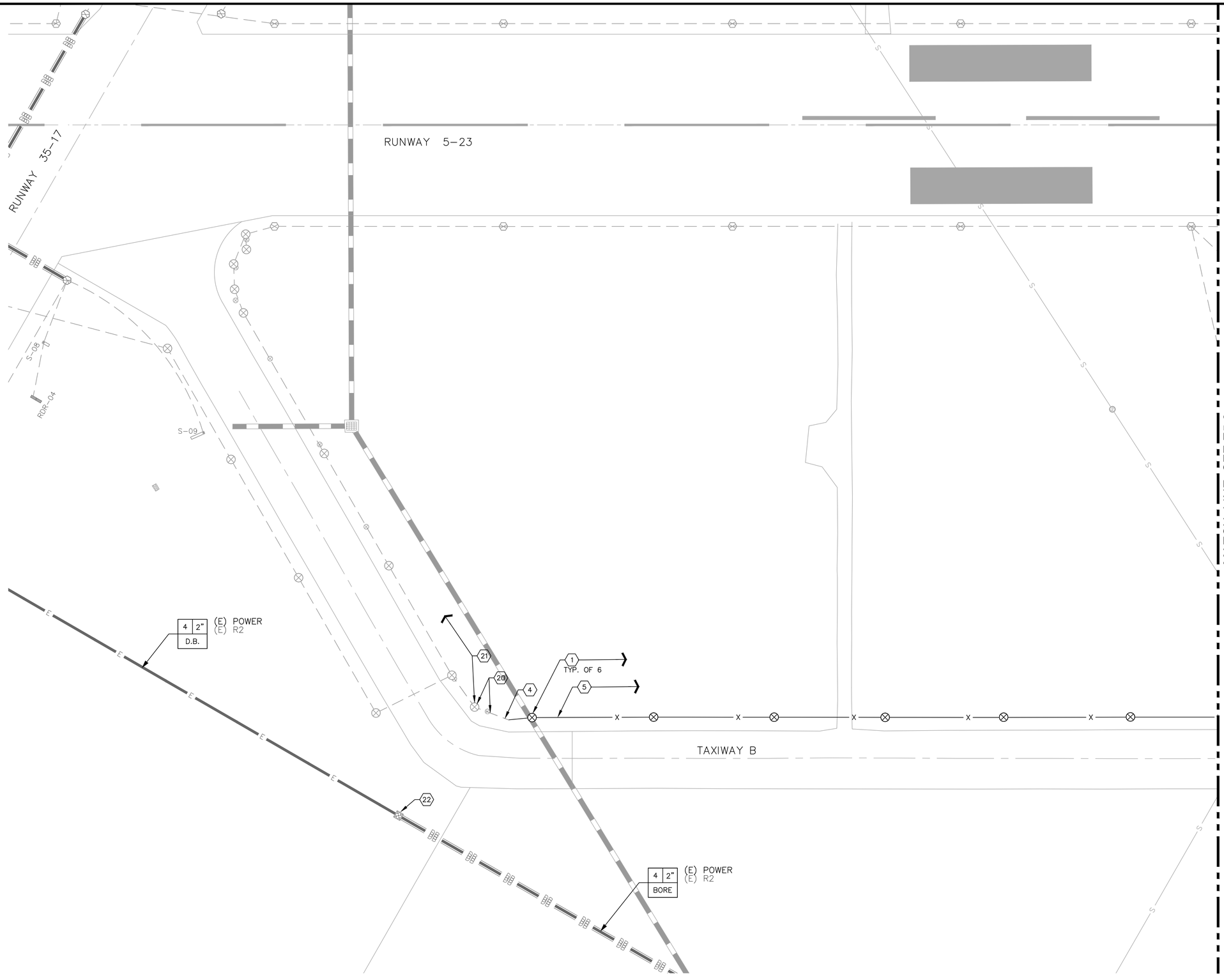
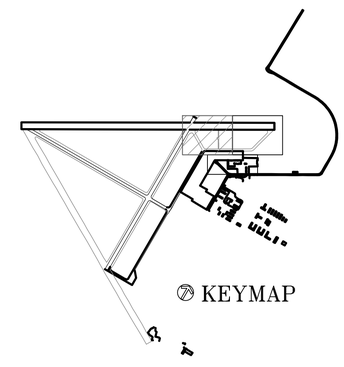


DEMOLITION NOTES

1. REMOVE TAXIWAY EDGE LIGHT, TRANSFORMER, BASE, AND CABLE. SALVAGE LIGHT, STEM AND BASEPLATE TO OWNER.
4. REMOVE ALL CABLES BACK TO NEAREST FIXTURE BASE OR HANDHOLE PRIOR TO REMOVAL OF CONDUIT OR DUCT IN AREA OF RECONSTRUCTION.
5. REMOVE PORTION OF DUCT OR CONDUIT IN AREA OF RECONSTRUCTION – INCIDENTAL TO MASS GRADING. SEE CIVIL DRAWING FOR LIMITS OF REMOVAL.
20. PROTECT EXISTING CONDUIT OR DUCT IN PLACE AT LIMITS OF NEW CONSTRUCTION. REMOVE CABLE BACK TO NEAREST EXISTING HANDHOLE OR FIXTURE BASE. PROTECT CABLES IN FIXTURE BASE OR HANDHOLE FOR RECONNECTION WITH NEW CIRCUIT.
21. PROTECT EXISTING FIXTURE AND BASE IN PLACE.
22. PROTECT EXISTING HANDHOLE IN PLACE.



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COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
ELECTRICAL DEMOLITION PLAN

PROJECT NO.
191842000

DRAWING NAME

E5.1 OF 45

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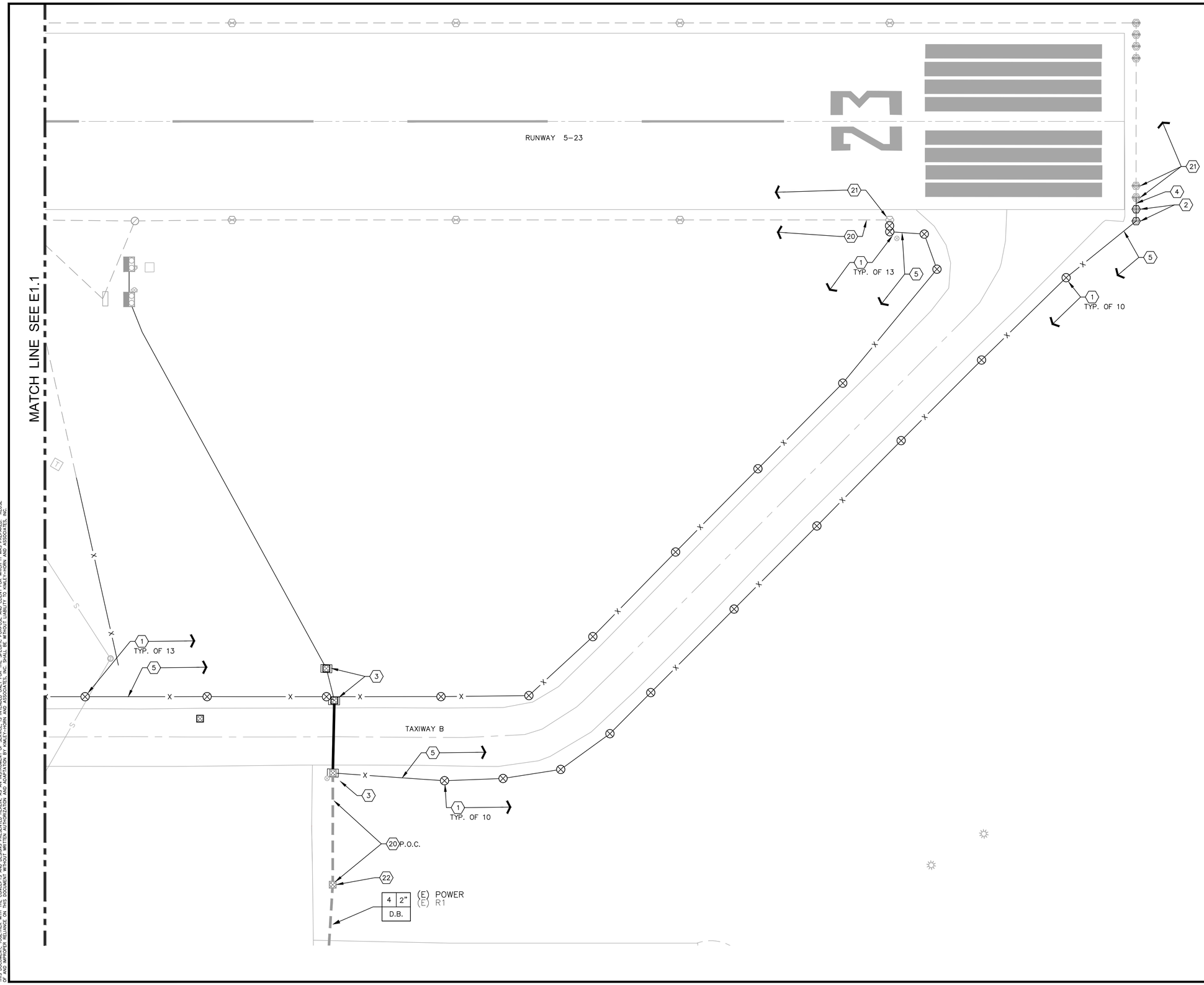

DEMOLITION NOTES

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2. REMOVE/SALVAGE L–861E MEDIUM INTENSITY RUNWAY END LIGHT FOR RELOCATION.
3. REMOVE EXISTING CONCRETE HANDHOLE.
4. REMOVE ALL CABLES BACK TO NEAREST FIXTURE BASE OR HANDHOLE PRIOR TO REMOVAL OF CONDUIT OR DUCT IN AREA OF RECONSTRUCTION.
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21. PROTECT EXISTING FIXTURE AND BASE IN PLACE.
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KEYMAP

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NORTH

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Arizona U.S.A.
EXPIRES 9/30/17

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COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
ELECTRICAL DEMOLITION PLAN

PROJECT NO.
191842000

DRAWING NAME

E5.2 OF 45

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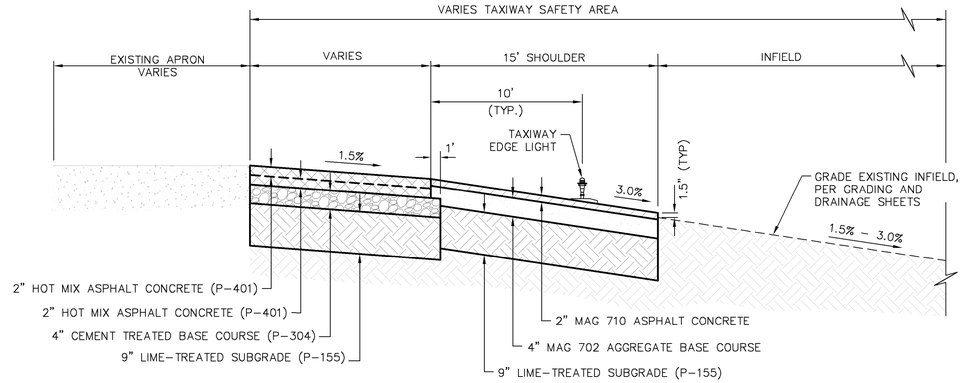

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(TWY B3: STA. 30+00.00 TO STA. 31+49.00)

1 / C4.2

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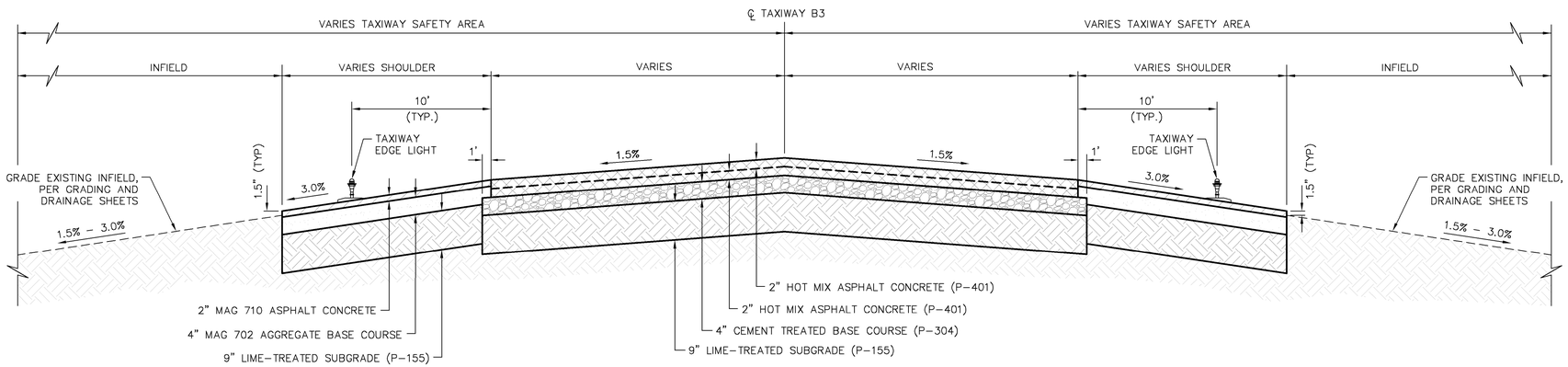

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(TWY B3: STA. 31+48.92 TO STA. 32+48.47)

2 / C4.2

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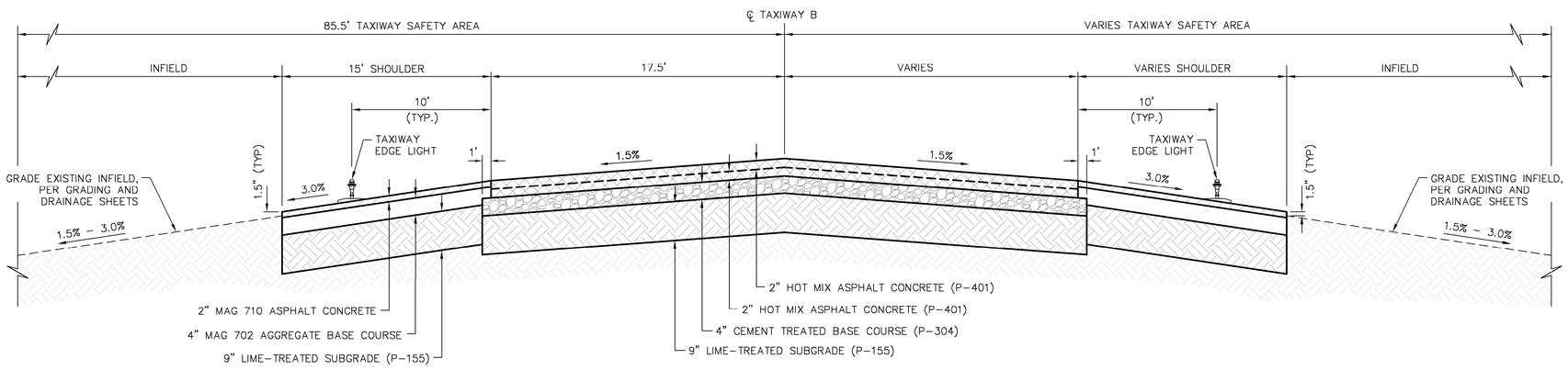

TAXIWAY TYPICAL SECTION
(TWY B: STA.159+02.61 TO STA.161+65.61)

3 / C4.2

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Exp. Date 12/31/18

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SCALE (V): N/A
DESIGNED BY: BLG
DRAWN BY: BLR
CHECKED BY: BLG
DATE: 07/01/16

COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
TYPICAL SECTION
ALTERNATE 1

PROJECT NO. 191593007

DRAWING NAME 191593007TX.dwg

C4.2

SHEET NO. 26 OF 45

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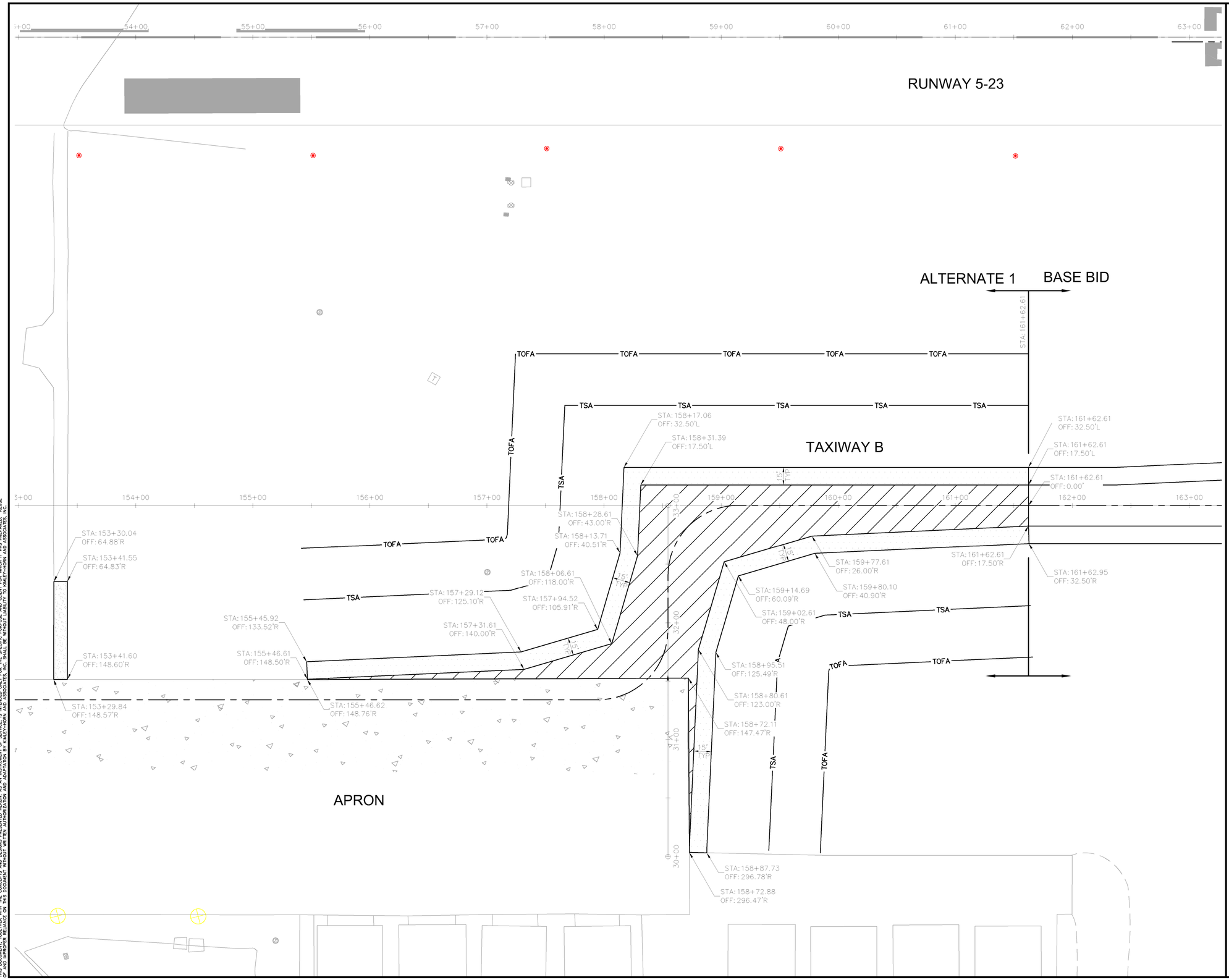

LEGEND

- AC PAVEMENT (P-401)
- AC PAVEMENT SHOULDER (MAG-710)
- MILLINGS PLACEMENT

CONSTRUCTION NOTES:

1. REFER TO SHEETS C4.1 FOR TYPICAL SECTIONS.
2. REFER TO SHEETS C6.1 THRU C6.5 FOR PAVING PLAN AND PROFILE.
3. REFER TO SHEETS C10.3 THRU C10.1 FOR PAVEMENT MARKING PLAN.
4. REFER TO ELECRTICAL LAYOUT PLANS FOR AIRFIELD LIGHTING AND SIGNING SYSTEM (NOT SHOWN).

NO.	REVISION	DATE

Kimley»Horn
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7740 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

Registered Professional Engineer (Civil)
CERTIFICATE NO. 53933
BRIAN LEVI GALL
Date Signed 07.01.16
ARIZONA, U.S.A.
Exp. Date 12/31/18

SCALE (H):
SCALE (V):
DESIGNED BY: BLG
DRAWN BY: BLR
CHECKED BY: BLG
DATE: 07/01/16

COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 GEOMETRIC LAYOUT PLAN ALTERNATE 1

PROJECT NO.
191593007

DRAWING NAME
191593007GL.dwg

C5.2

SHEET NO. 27 OF 45

Call at least two full working days before your begin excavation
ARIZONA 811
Blue Stake, Inc.
Dial 8-1-1 or 1-340-OYARIZ-IY (1-340-2249)
in Maricopa County (602) 263-1100

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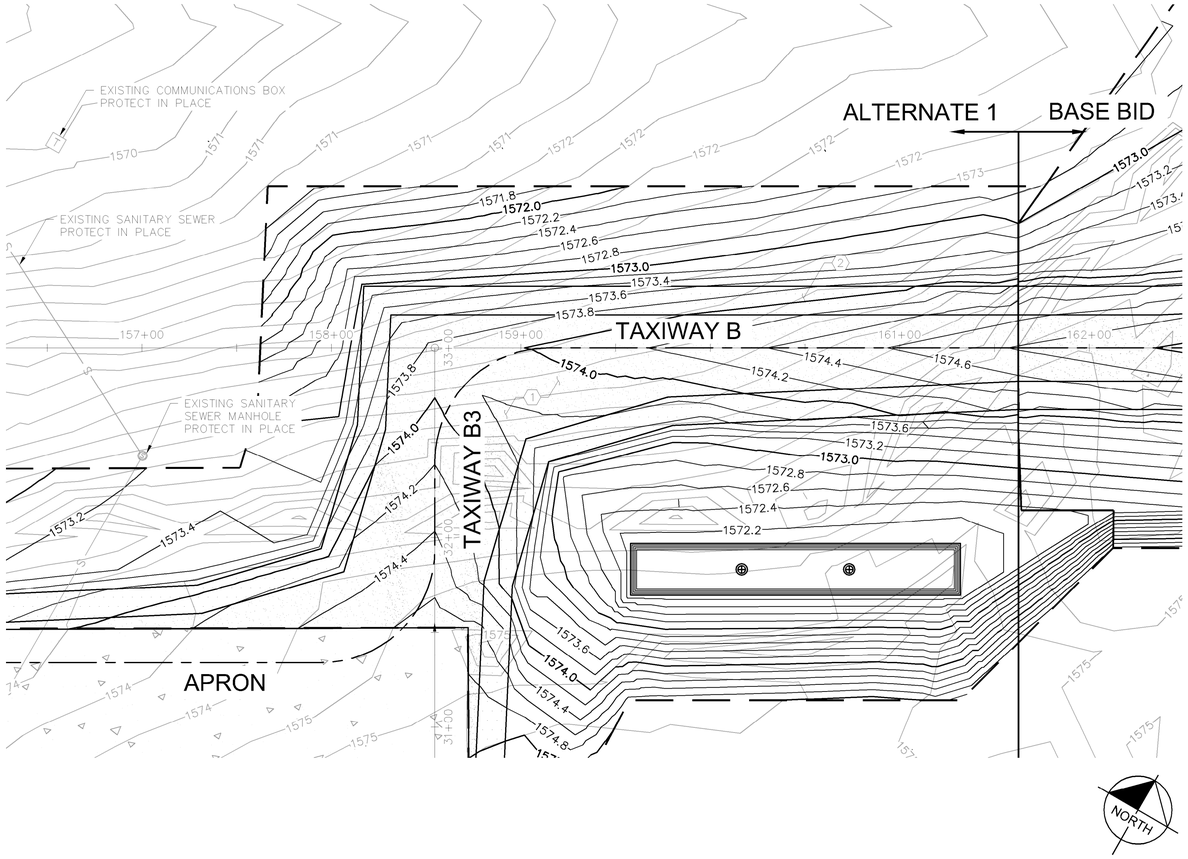

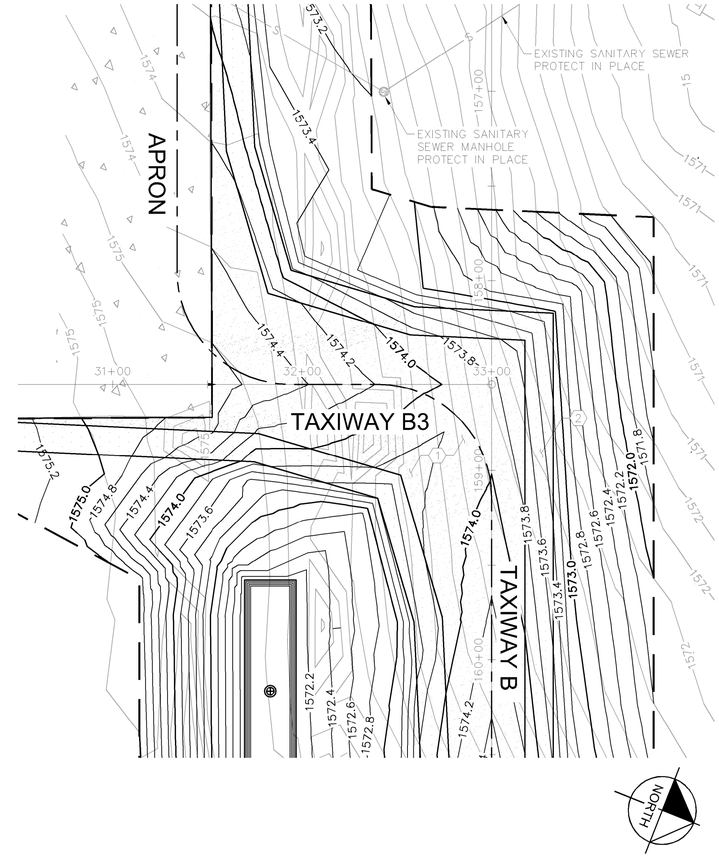

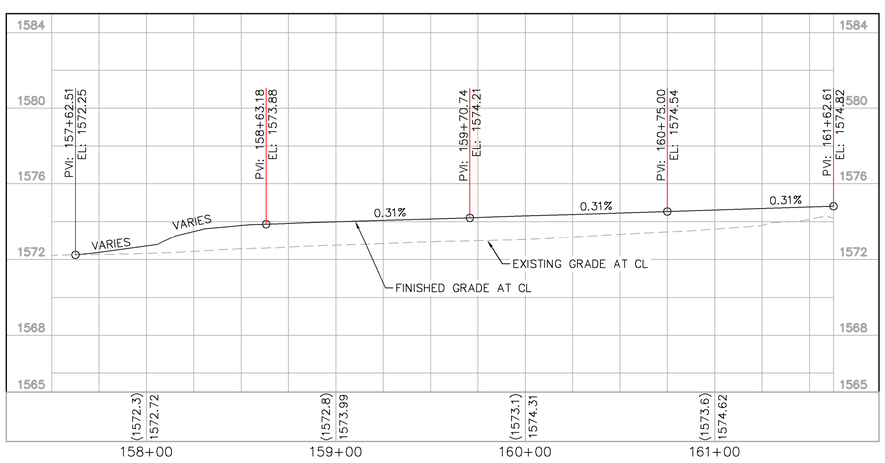

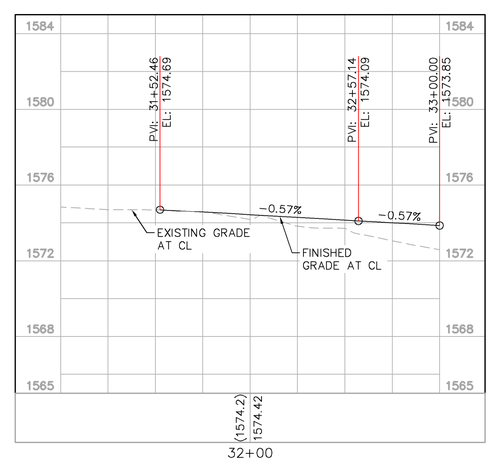

LEGEND

- AC PAVEMENT (P-401)
- AC PAVEMENT SHOULDER (MAG-710)
- MILLINGS PLACEMENT

GENERAL NOTES:

1. REFER TO SHEET C4.1 THRU C4.3 FOR TYPICAL SECTIONS.
2. REFER TO SHEETS C5.1 THRU C5.4 FOR GEOMETRIC LAYOUT.
3. REFER TO PAVEMENT MARKING SHEETS C10.1 THRU C10.5 FOR TAXIWAY AND SHOULDER STRIPING.
4. REFER TO ELECTRICAL PLAN SHEETS FOR AIRFIELD LIGHTING.
5. SEE SHEET C1.4 FOR CENTERLINE ALIGNMENT DEFINITION.

CONSTRUCTION NOTES:

1. AC PAVEMENT
2. ASPHALT SHOULDER PAVEMENT

4 0 2 4

GRAPHIC SCALE IN FEET
0 20 40 80

Call at least two full working days before your begin excavation
ARIZONA 811
Blue Stake, Inc.
Dial 8-1-1 or 1-340-OYARIS-IY (1-340-2-1-1-1)
In Maricopa County (602) 263-1100

NO.	REVISION	DATE

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COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINCKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
PLAN AND PROFILE
ALTERNATE 1

PROJECT NO.
191593007

DRAWING NAME
191593007PP.dwg

C6.2

SHEET NO. 28 OF 45

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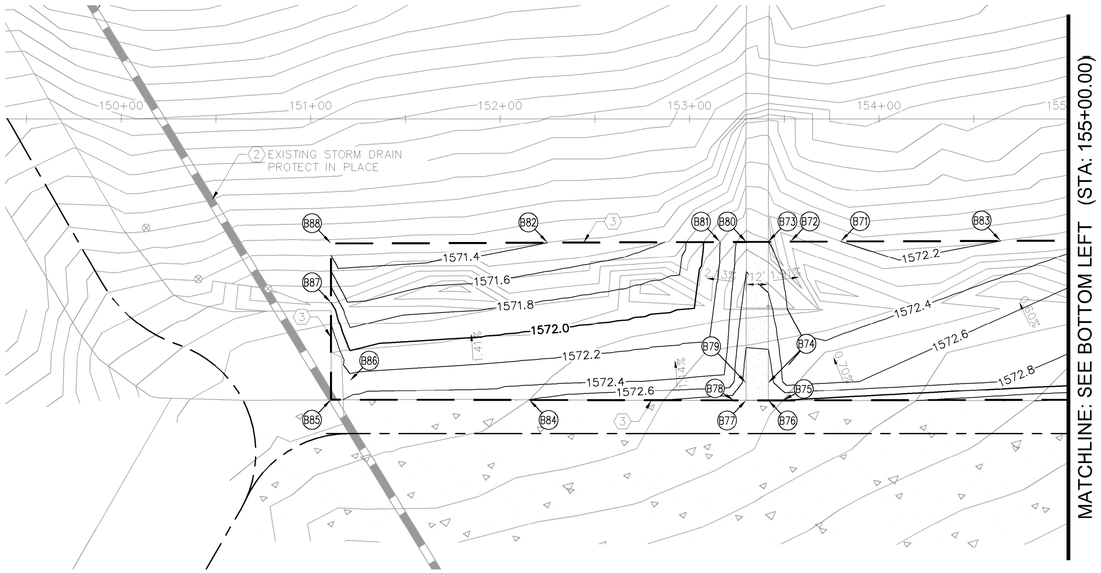

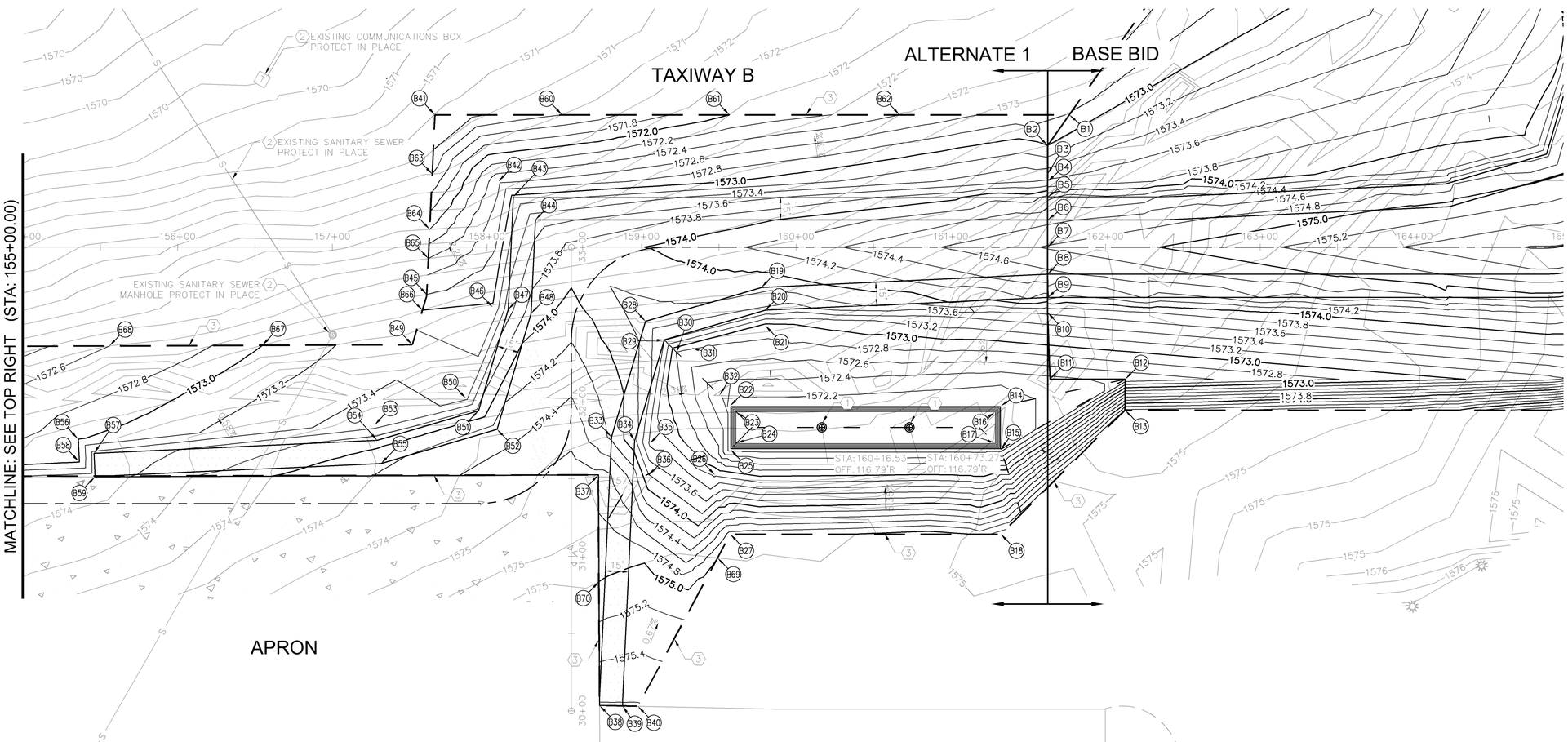

LEGEND

- AC PAVEMENT (P-401)
- AC PAVEMENT SHOULDER (MAG 710)
- MILLINGS PLACEMENT
- 1350 EXISTING CONTOUR
- 1350 PROPOSED CONTOUR
- X.XX% SLOPE DIRECTION
- GRADING LIMITS
- GRADE BREAK
- FLOW LINE
- X# PROPOSED SPOT ELEVATION
- PROPOSED DRYWELL
- EXISTING CATCH BASIN
- EXISTING TAXIWAY EDGE LIGHTS
- T EXISTING COMMUNICATION BOX
- EXISTING CACTUS
- EXISTING SANITARY SEWER MANHOLE
- S EXISTING SANITARY SEWER
- EXISTING STORM DRAIN PIPE

GENERAL NOTES:

1. REFER TO SHEET C1.4 FOR HORIZONTAL AND VERTICAL CONTROL
2. CONTRACTOR SHALL MATCH EXISTING PAVEMENT ELEVATIONS AS SHOWN ON PLAN. IF EXISTING ELEVATIONS DIFFER FROM THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
3. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.
4. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK IN ANY AREA.
5. ALL STATIONS AND OFFSETS REFER TO THE APPROPRIATE RUNWAY OR TAXIWAY STATIONING.
6. DESIGN CONTOURS REPRESENT FINISHED GRADE (PAVEMENT AND GRADING). CONTOURS AND PERCENT OF SLOPE ARE APPROXIMATE AND ARE SHOWN AS SUPPLEMENTAL INFORMATION ONLY.

CONSTRUCTION NOTES:

REFER TO SHEET C7.4 FOR SPOT ELEVATION TABLES.

1. INSTALL DRYWELL
2. EXISTING STRUCTURE TO REMAIN PROTECTED IN PLACE
3. MATCH EXISTING GRADE
4. ADJUST EXISTING SANITARY SEWER STRUCTURE, SEE DETAILS ON SHEET C7.7

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

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NO.	REVISION	DATE

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Registered Professional Engineer (Civil) CERTIFICATE NO. 53933 BRIAN LEVI GALL Date Signed 07/01/16 ARIZONA, U.S.A. Exp. Date 12/31/18

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COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 GRADING AND DRAINAGE ALTERNATE 1

PROJECT NO. 191593007

DRAWING NAME 191593007GD.dwg

C7.3

SHEET NO. 29 OF 45

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(B#)	ELEVATION CONTROL POINT		
DESCRIPTION	NORTHING	EASTING	ELEVATION
B1	706045.55	852290.93	1572.82
B2	706021.36	852288.69	1573.00
B3	706005.42	852297.90	1573.50
B4	706001.29	852300.29	1573.63
B5	705992.63	852305.29	1574.25
B6	705979.65	852312.80	1574.55
B7	705964.49	852321.55	1574.82
B8	705949.34	852330.31	1574.55
B9	705936.34	852337.82	1574.13
B10	705927.68	852342.83	1573.63
B11	705891.25	852365.69	1572.34
B12	705915.63	852407.88	1572.46
B13	705898.22	852417.71	1574.44
B14	705860.38	852346.84	1572.10
B15	705836.14	852360.85	1572.10
B16	705854.92	852345.38	1571.10
B17	705837.60	852355.39	1571.10
B18	705788.52	852388.37	1574.70
B19	705849.41	852174.39	1573.86
B20	705837.75	852184.01	1573.56
B21	705829.10	852189.01	1572.93
B22	705772.81	852195.33	1572.10
B23	705771.35	852200.79	1571.10
B24	705754.03	852210.80	1571.10
B25	705748.57	852209.34	1572.10
B26	705729.08	852209.22	1573.17
B27	705700.95	852236.86	1574.88
B28	705792.83	852120.47	1573.72
B29	705788.41	852136.98	1573.41
B30	705785.47	852147.99	1572.79
B31	705792.74	852154.83	1572.81
B32	705775.34	852185.86	1572.24
B33	705716.89	852138.95	1574.16
B34	705722.19	852153.10	1573.86
B35	705725.72	852162.53	1573.36
B36	705707.26	852172.10	1573.82
B37	705691.44	852143.84	1574.69
B38	705562.83	852219.07	1575.62
B39	705570.00	852232.08	1575.62
B40	705574.82	852240.84	1575.62
B41	705840.27	851935.77	1571.01
B42	705823.59	851992.85	1572.56
B43	705819.72	852006.12	1573.05
B44	705813.90	852026.03	1573.52

(B#)	ELEVATION CONTROL POINT		
DESCRIPTION	NORTHING	EASTING	ELEVATION
B45	705737.13	851989.23	1572.80
B46	705751.29	852030.32	1573.02
B47	705754.83	852039.75	1573.52
B48	705760.13	852053.90	1573.90
B49	705704.20	851997.52	1573.32
B50	705691.54	852044.86	1573.36
B51	705688.60	852055.87	1573.86
B52	705684.18	852072.38	1574.29
B53	705647.03	852002.43	1573.51
B54	705639.26	852008.84	1573.92
B55	705627.61	852018.46	1574.18
B56	705543.32	851840.63	1572.99
B57	705540.30	851854.45	1573.46
B58	705530.88	851848.61	1572.99
B59	705527.45	851862.68	1573.50
B60	705881.43	852006.97	1571.40
B61	705935.57	852100.65	1572.00
B62	705990.65	852195.95	1572.40
B63	705806.25	851953.40	1571.40
B64	705774.52	851969.85	1572.00
B65	705757.65	851978.59	1572.40
B66	705726.88	851992.00	1573.00
B67	705655.32	851913.70	1573.00
B68	705605.51	851828.34	1572.60
B69	705683.65	852237.41	1575.00
B70	705631.83	852178.69	1575.00
B71	705516.78	851676.20	1572.20
B72	705503.41	851653.28	1572.50
B73	705497.48	851643.11	1572.42
B74	705433.05	851680.43	1572.92
B75	705428.84	851691.77	1572.98
B76	705425.00	851685.10	1572.98
B77	705419.13	851674.90	1572.94
B78	705415.95	851669.38	1572.92
B79	705427.19	851670.26	1572.89
B80	705491.67	851633.15	1572.52
B81	705484.69	851621.19	1572.20
B82	705438.77	851542.46	1571.40
B83	705559.29	851749.09	1572.20
B84	705362.11	851575.73	1572.60
B85	705309.83	851485.04	1572.35
B86	705323.48	851488.70	1572.26
B87	705354.18	851459.40	1572.00
B88	705381.21	851443.78	1571.00

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COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 GRADING AND DRAINAGE ALTERNATE 1

PROJECT NO.
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C7.4

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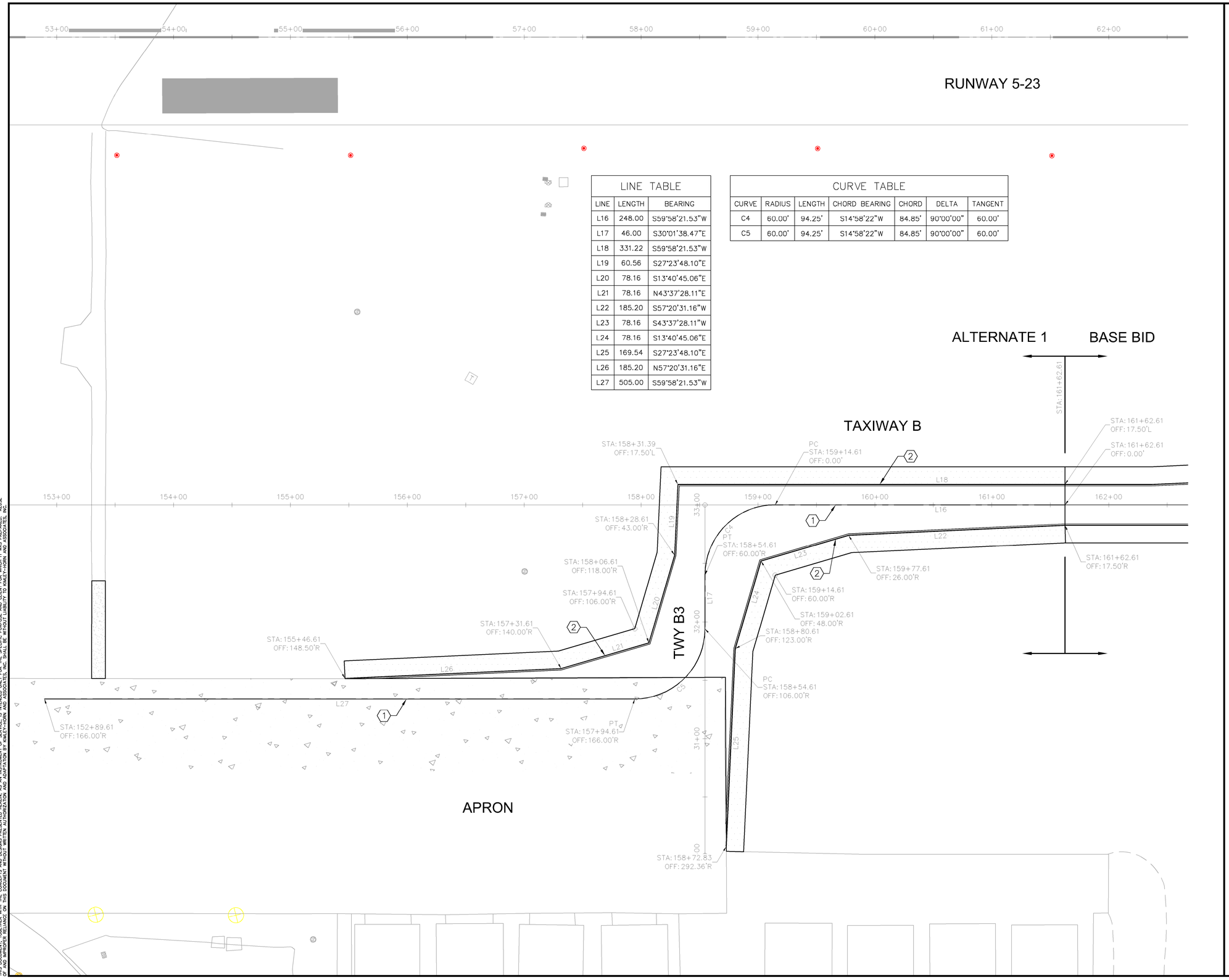

LINE TABLE		
LINE	LENGTH	BEARING
L16	248.00	S59°58'21.53"W
L17	46.00	S30°01'38.47"E
L18	331.22	S59°58'21.53"W
L19	60.56	S27°23'48.10"E
L20	78.16	S13°40'45.06"E
L21	78.16	N43°37'28.11"E
L22	185.20	S57°20'31.16"W
L23	78.16	S43°37'28.11"W
L24	78.16	S13°40'45.06"E
L25	169.54	S27°23'48.10"E
L26	185.20	N57°20'31.16"E
L27	505.00	S59°58'21.53"W

CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C4	60.00'	94.25'	S14°58'22"W	84.85'	90°00'00"	60.00'
C5	60.00'	94.25'	S14°58'22"W	84.85'	90°00'00"	60.00'

GENERAL NOTES

1. PAVEMENT MARKINGS 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 AC, THE AC SHALL TAKE PRECEDENCE.
2. CONTRACTOR SHALL SURVEY THE EXISTING PAVEMENT MARKINGS PRIOR TO CONSTRUCTION. PROPOSED PAVEMENT MARKINGS SHALL TIE INTO THE EXISTING MARKINGS AT THE LIMITS OF THE PROJECT PER THE EXISTING SURVEYED MARKINGS. PROPOSED MARKINGS SHALL BE INSTALLED PER THE DIMENSIONS SHOWN ON THE PAVEMENT MARKING PLANS/DETAILS. ALL OTHER MARKINGS SHALL BE RE-INSTALLED PER THEIR EXISTING SURVEYED LOCATIONS.

CONSTRUCTION NOTES:

1. INSTALL SIX INCH (6") WIDE TAXIWAY CENTERLINE PAVEMENT MARKING, PER DETAIL 1 SHEET C10.2.
2. INSTALL DOUBLE SIX INCH (6") WIDE TAXIWAY EDGE PAVEMENT MARKING, PER DETAIL 2 SHEET C10.2.
3. INSTALL RUNWAY HOLDING POSITION MARKING, PER DETAIL 3 SHEET C10.2.
4. INSTALL ENHANCED TAXIWAY CENTERLINE PAVEMENT MARKING. PER DETAIL 3 SHEET C10.2.
5. INSTALL SIX INCH (6") SOLID YELLOW RUNWAY/TAXIWAY INTERSECTION MARKINGS PER DETAIL 4, SHEET C10.2.
6. INSTALL DOUBLE SIX INCH (6") WIDE DASHED TAXIWAY EDGE PAVEMENT MARKING, PER DETAIL 5 SHEET C10.2.
7. MATCH EXISTING

NOTE: IF PROPOSED MARKINGS ON EXISTING PAVEMENT DO NOT CORRESPOND WITH EXISTING MARKINGS, EXISTING MARKINGS SHALL BE OBLITERATED (ITEM 620). LIMITS OF OBLITERATION TO BE COORDINATED WITH INSPECTOR PRIOR TO OBLITERATION.

NO.	REVISION	DATE

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CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 PAVEMENT MARKING PLAN ALTERNATE 1

PROJECT NO. 191593007

DRAWING NAME 191593007PM.dwg

C10.3

SHEET NO. 31 OF 45

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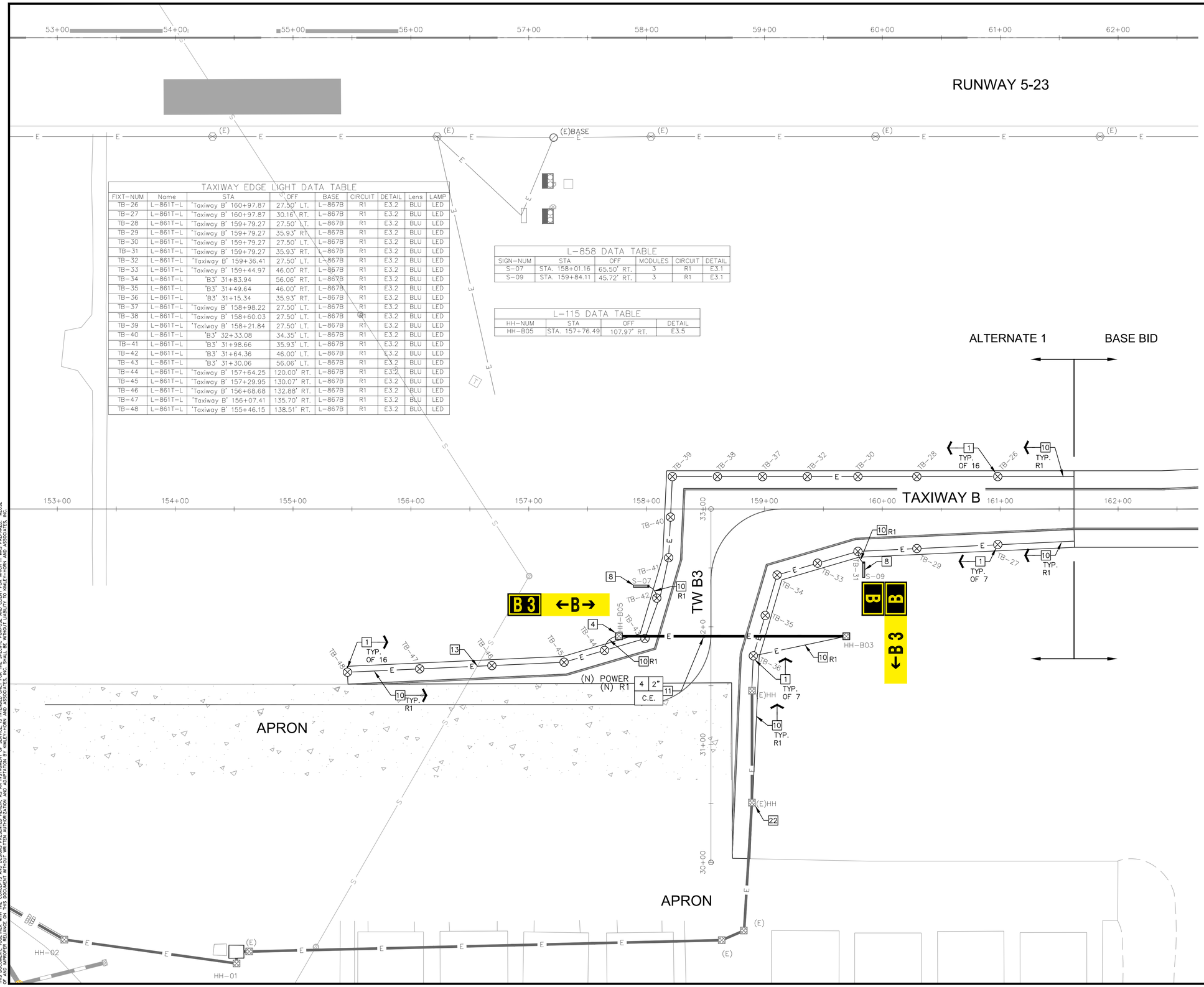

TAXIWAY EDGE LIGHT DATA TABLE								
FIXT-NUM	Name	STA	OFF	BASE	CIRCUIT	DETAIL	Lens	LAMP
TB-26	L-861T-L	'Taxiway B' 160+97.87	27.50' LT.	L-867B	R1	E3.2	BLU	LED
TB-27	L-861T-L	'Taxiway B' 160+97.87	30.16' RT.	L-867B	R1	E3.2	BLU	LED
TB-28	L-861T-L	'Taxiway B' 159+79.27	27.50' LT.	L-867B	R1	E3.2	BLU	LED
TB-29	L-861T-L	'Taxiway B' 159+79.27	35.93' RT.	L-867B	R1	E3.2	BLU	LED
TB-30	L-861T-L	'Taxiway B' 159+79.27	27.50' LT.	L-867B	R1	E3.2	BLU	LED
TB-31	L-861T-L	'Taxiway B' 159+79.27	35.93' RT.	L-867B	R1	E3.2	BLU	LED
TB-32	L-861T-L	'Taxiway B' 159+36.41	27.50' LT.	L-867B	R1	E3.2	BLU	LED
TB-33	L-861T-L	'Taxiway B' 159+44.97	46.00' RT.	L-867B	R1	E3.2	BLU	LED
TB-34	L-861T-L	'B3' 31+83.94	56.06' RT.	L-867B	R1	E3.2	BLU	LED
TB-35	L-861T-L	'B3' 31+49.64	46.00' RT.	L-867B	R1	E3.2	BLU	LED
TB-36	L-861T-L	'B3' 31+15.34	35.93' RT.	L-867B	R1	E3.2	BLU	LED
TB-37	L-861T-L	'Taxiway B' 158+98.22	27.50' LT.	L-867B	R1	E3.2	BLU	LED
TB-38	L-861T-L	'Taxiway B' 158+60.03	27.50' LT.	L-867B	R1	E3.2	BLU	LED
TB-39	L-861T-L	'Taxiway B' 158+21.84	27.50' LT.	L-867B	R1	E3.2	BLU	LED
TB-40	L-861T-L	'B3' 32+33.08	34.35' LT.	L-867B	R1	E3.2	BLU	LED
TB-41	L-861T-L	'B3' 31+98.66	35.93' LT.	L-867B	R1	E3.2	BLU	LED
TB-42	L-861T-L	'B3' 31+64.36	46.00' LT.	L-867B	R1	E3.2	BLU	LED
TB-43	L-861T-L	'B3' 31+30.06	56.06' LT.	L-867B	R1	E3.2	BLU	LED
TB-44	L-861T-L	'Taxiway B' 157+64.25	120.00' RT.	L-867B	R1	E3.2	BLU	LED
TB-45	L-861T-L	'Taxiway B' 157+29.95	130.07' RT.	L-867B	R1	E3.2	BLU	LED
TB-46	L-861T-L	'Taxiway B' 156+68.68	132.88' RT.	L-867B	R1	E3.2	BLU	LED
TB-47	L-861T-L	'Taxiway B' 156+07.41	135.70' RT.	L-867B	R1	E3.2	BLU	LED
TB-48	L-861T-L	'Taxiway B' 155+46.15	138.51' RT.	L-867B	R1	E3.2	BLU	LED

L-858 DATA TABLE					
SIGN-NUM	STA	OFF	MODULES	CIRCUIT	DETAIL
S-07	STA. 158+01.16	65.50' RT.	3	R1	E3.1
S-09	STA. 159+84.11	45.72' RT.	3	R1	E3.1

L-115 DATA TABLE			
HH-NUM	STA	OFF	DETAIL
HH-B05	STA. 157+76.49	107.97' RT.	E3.5

CONSTRUCTION NOTES

1. PROVIDE AND INSTALL NEW L-861T LED MEDIUM INTENSITY TAXIWAY EDGE LIGHT ON NEW L-867B BASECAN WITH NEW ISOLATION TRANSFORMER AND CABLES. SEE E3.2 FOR DETAIL.
4. PROVIDE AND INSTALL NEW CONCRETE HANDHOLE AND CONNECT TO NEW AIRFIELD DUCTBANK. SEE E3.5 FOR DETAIL.
8. PROVIDE AND INSTALL NEW SIZE 1, 3-MODULE LED AIRFIELD GUIDANCE SIGN ON NEW CONCRETE BASE WITH NEW L-867B BASECAN AND NEW ISOLATION TRANSFORMER AND CABLES. SEE E3.1 FOR DETAIL.
10. INSTALL NEW DIRECT BURIAL CONDUIT. INSTALL NEW CIRCUIT PER CIRCUIT MAPS.
11. INSTALL NEW CONCRETE ENCASED CONDUIT. INSTALL NEW CIRCUIT PER CIRCUIT MAPS.
13. HAND EXCAVATE NEAR EXISTING UTILITY CROSSING.
22. PROTECT EXISTING HANDHOLE IN PLACE.

GENERAL NOTES

1. FOR ALTERNATE BIDS 1A AND 2A, PROVIDE AND INSTALL NEW ELEVATED RETROREFLECTIVE MARKERS AT L-861T LOCATIONS AS PER THE DATA TABLES.
2. FOR ALTERNATE BIDS 1A AND 2A, PROVIDE AND INSTALL NEW UNLIGHTED GUIDANCE SIGNS AT L-858 LOCATIONS AS PER THE DATA TABLES.

KEYMAP

GRAPHIC SCALE IN FEET
0 20 40 80

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REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL) 31798 ERIC C. LOVEJOY ARIZONA U.S.A.
EXPIRES 9/30/17

SCALE (H):
SCALE (V):
DESIGNED BY: ECL
DRAWN BY: JDB
CHECKED BY: DYE
DATE: 07/06/2016

COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
ALT BID 1 ELECTRICAL LAYOUT

PROJECT NO.
191842000

DRAWING NAME

K:\RPN_Aviation\191593007-Coolidge Twy B Rehab\05 CADD\PlanSheets\191593007EL.dwg Jul 06, 2016 dene.eaom
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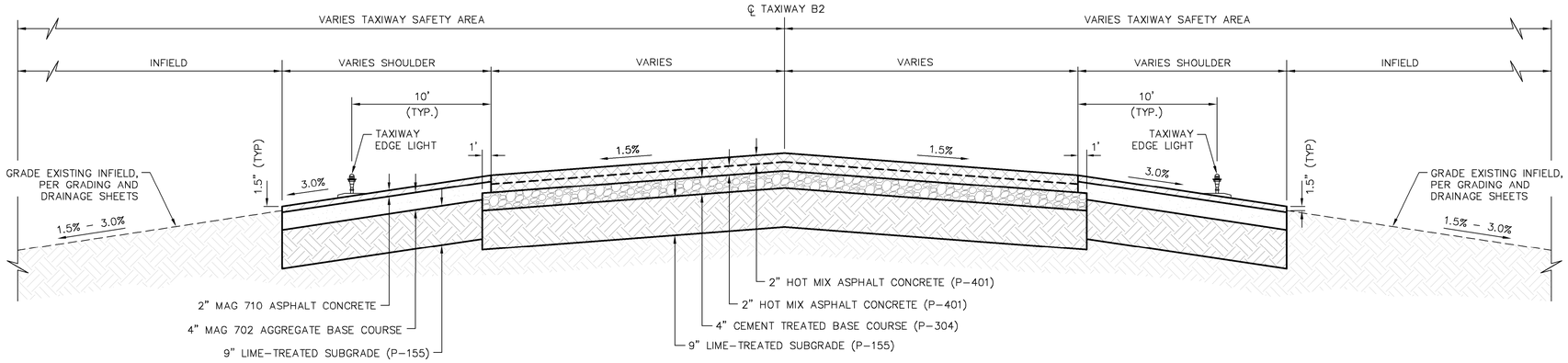
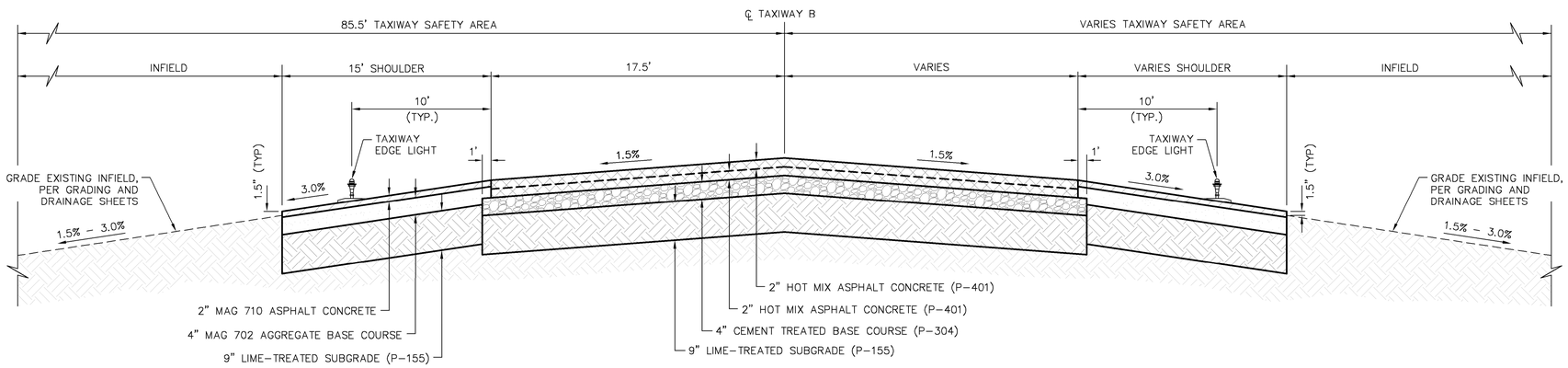


TAXIWAY TYPICAL SECTION
(TWY B2: STA. 20+91.50 TO STA. 21+91.79)

1 / C4.3

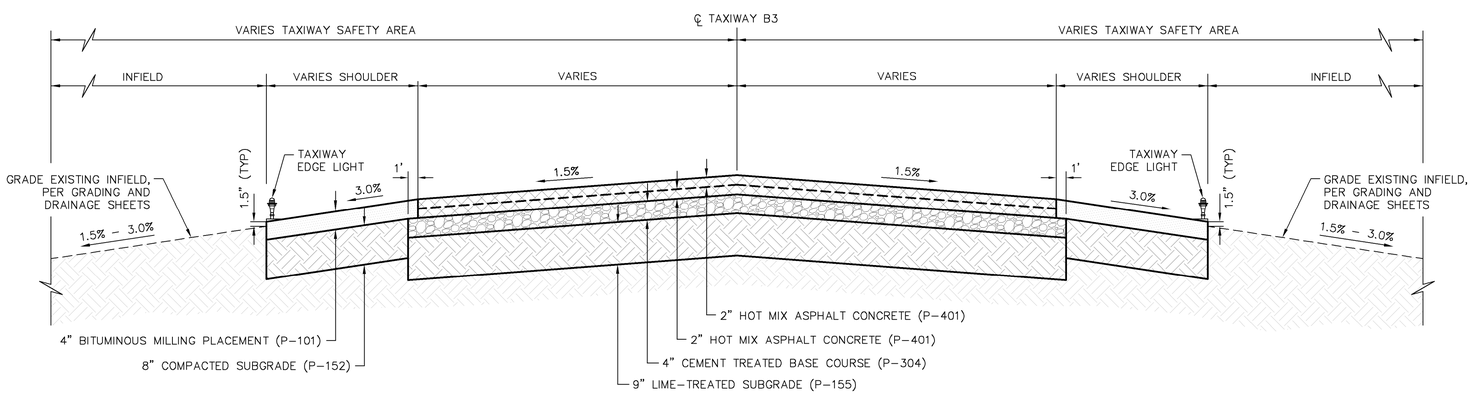
N.T.S.



TAXIWAY TYPICAL SECTION
(TWY B: STA.153+37.38 TO STA. 158+22.38)
(TWY B: STA.158+86.61 TO STA. 161+62.61)

2 / C4.3

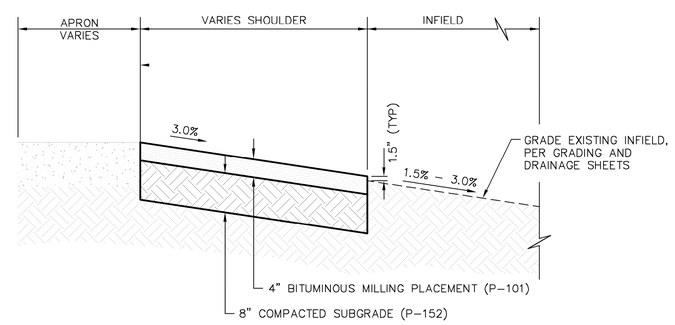
N.T.S.



TAXIWAY TYPICAL SECTION
(TWY B3: STA. 31+47.97 TO STA. 32+51.33)

3 / C4.3

N.T.S.



TAXIWAY TYPICAL SECTION
(TWY B3: STA. 30+43.97 TO STA. 31+47.97)

4 / C4.3

N.T.S.

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Registered Professional Engineer (Civil)
CERTIFICATE NO. 53933
BRIAN LEVI GALL
Date Signed 07,6,16
ARIZONA U.S.A.
Exp. Date 12/31/18

SCALE (H): N/A
SCALE (V): N/A
DESIGNED BY: BLG
DRAWN BY: BLR
CHECKED BY: BLG
DATE: 07/01/16

COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
TYPICAL SECTION
ALTERNATE 2

PROJECT NO.
191593007

DRAWING NAME
191593007TX.dwg

C4.3

SHEET NO. 33 OF 45

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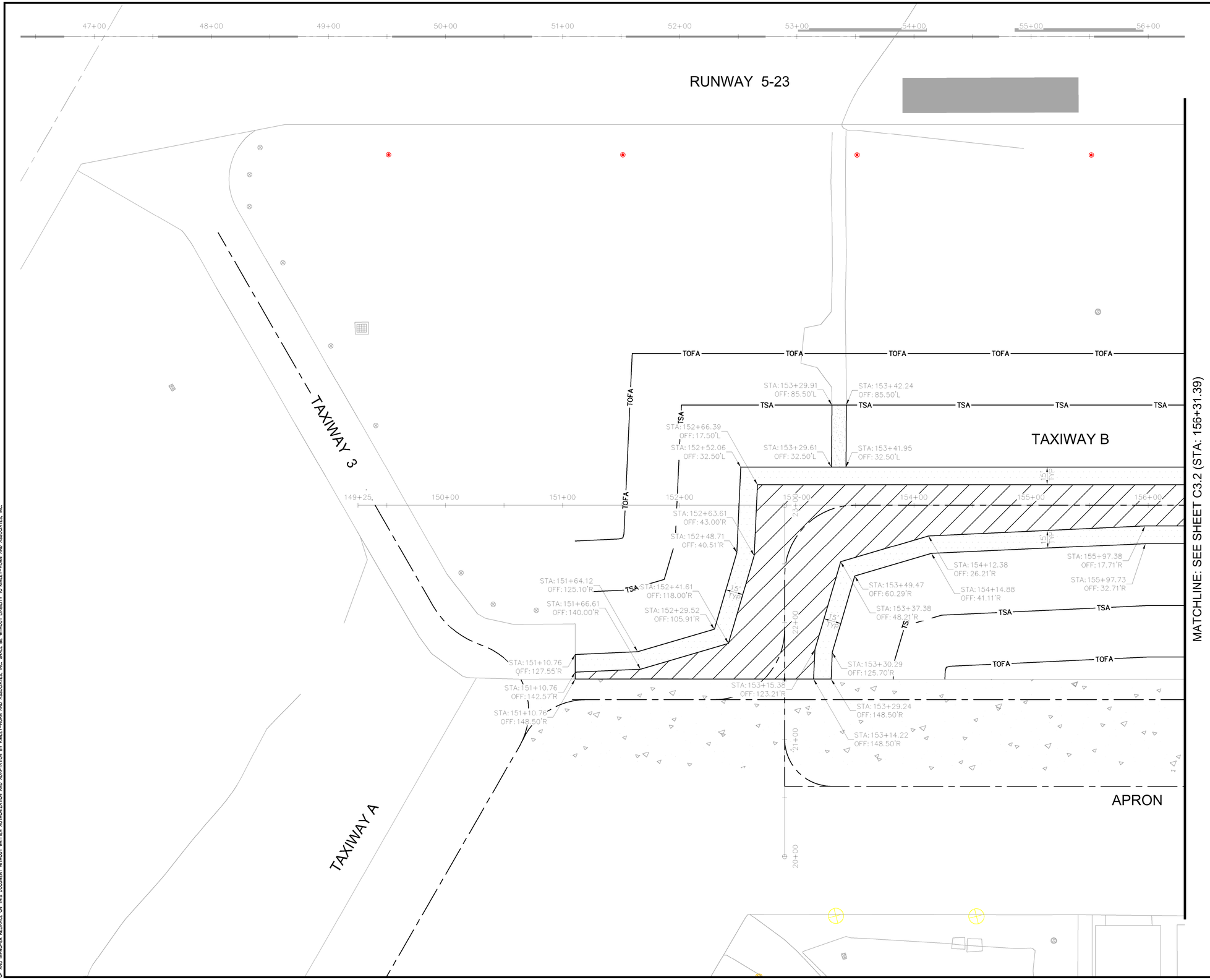

LEGEND

- AC PAVEMENT (P-401)
- AC PAVEMENT SHOULDER (MAG-710)
- MILLINGS PLACEMENT

CONSTRUCTION NOTES:

1. REFER TO SHEETS C4.1 FOR TYPICAL SECTIONS.
2. REFER TO SHEETS C6.1 THRU C6.5 FOR PAVING PLAN AND PROFILE.
3. REFER TO SHEETS C10.3 THRU C10.1 FOR PAVEMENT MARKING PLAN.
4. REFER TO ELECRTICAL LAYOUT PLANS FOR AIRFIELD LIGHTING AND SIGNING SYSTEM (NOT SHOWN).

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COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 GEOMETRIC LAYOUT PLAN ALTERNATE 2

PROJECT NO.
191593007

DRAWING NAME
191593007GL.dwg

C5.3

SHEET NO. 34 OF 45

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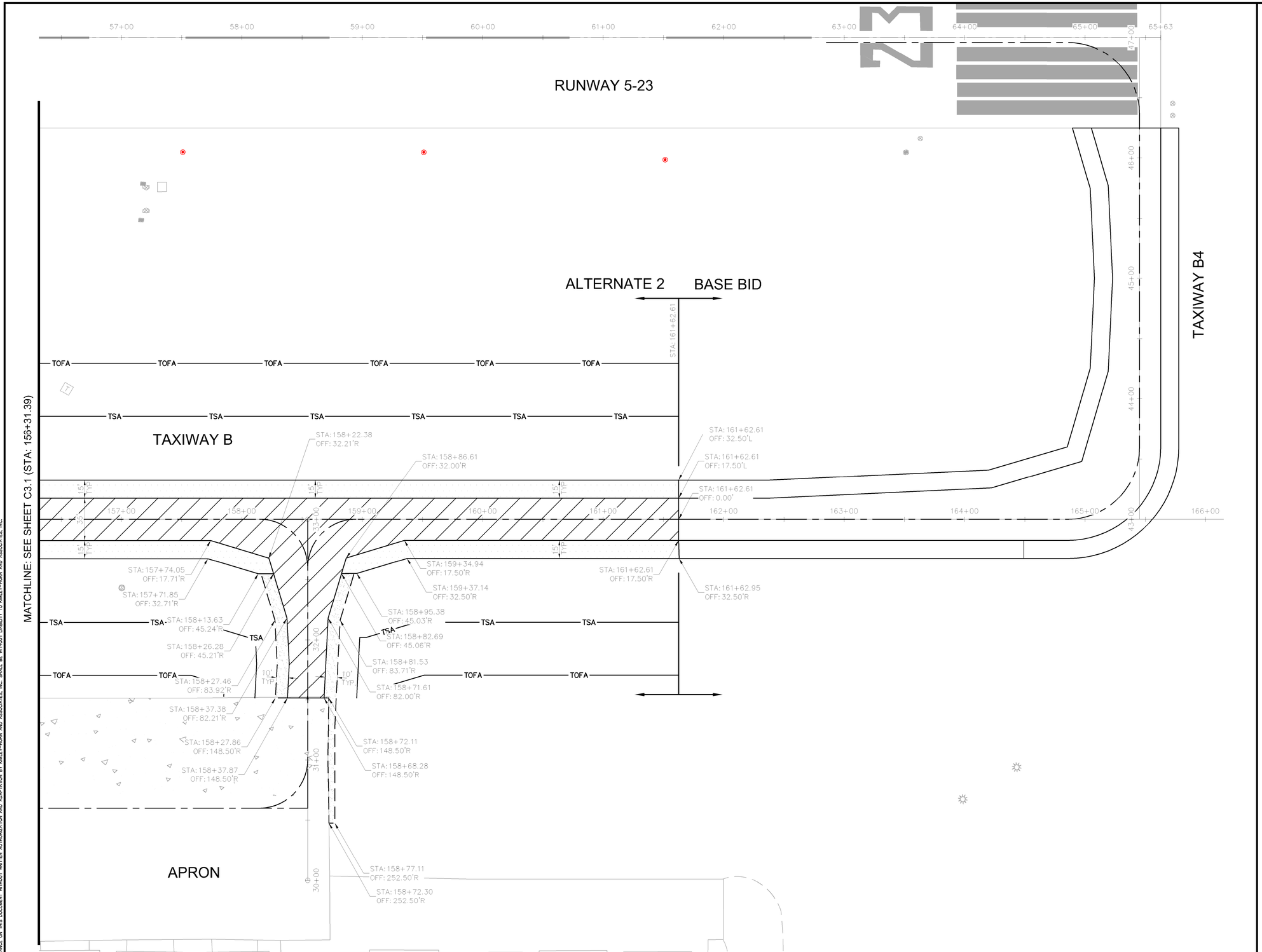

LEGEND

- AC PAVEMENT (P-401)
- AC PAVEMENT SHOULDER (MAG-710)
- MILLINGS PLACEMENT

CONSTRUCTION NOTES:

1. REFER TO SHEETS C4.1 FOR TYPICAL SECTIONS.
2. REFER TO SHEETS C6.1 THRU C6.5 FOR PAVING PLAN AND PROFILE.
3. REFER TO SHEETS C10.3 THRU C10.1 FOR PAVEMENT MARKING PLAN.
4. REFER TO ELECRTICAL LAYOUT PLANS FOR AIRFIELD LIGHTING AND SIGNING SYSTEM (NOT SHOWN).

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COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
GEOMETRIC LAYOUT PLAN
ALTERNATE 2

PROJECT NO.
191593007

DRAWING NAME
191593007GL.dwg

C5.4

SHEET NO. 35 OF 45

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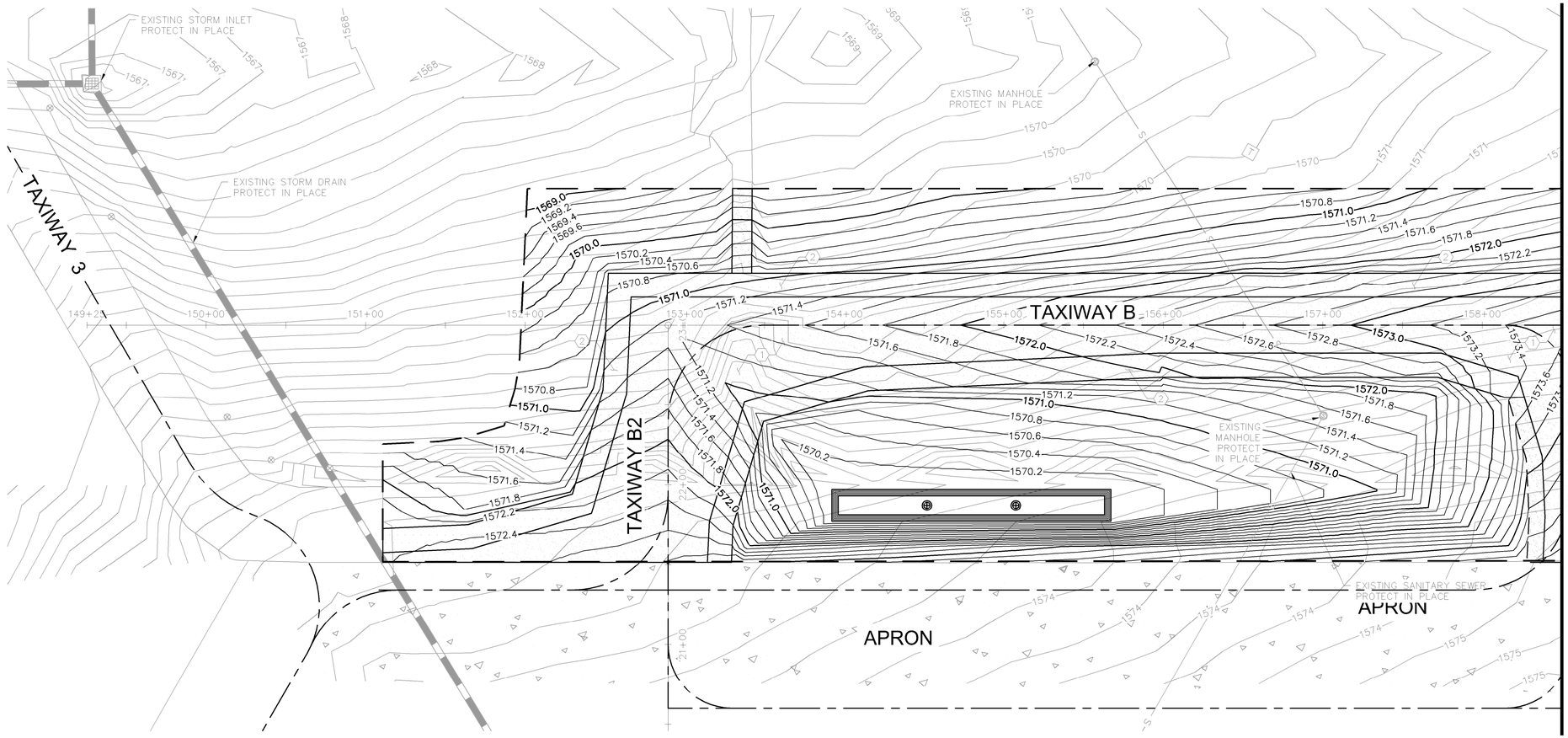

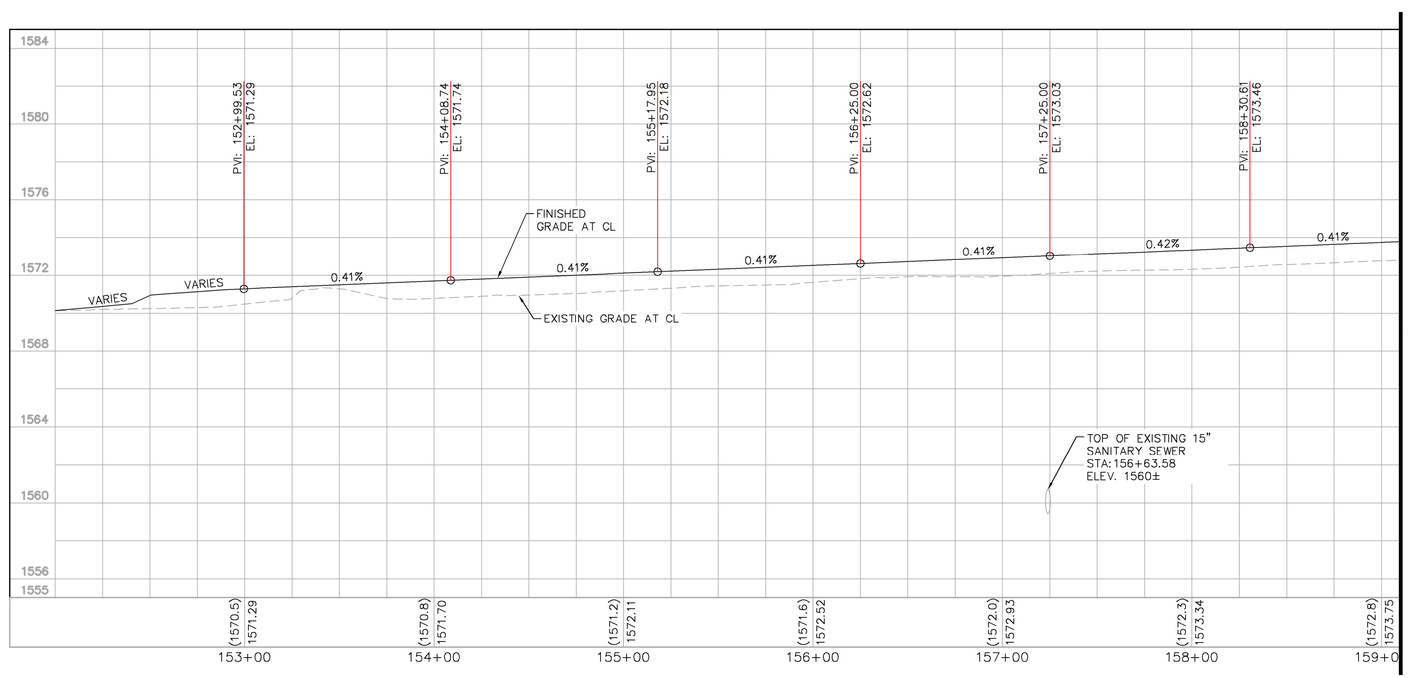

LEGEND

- AC PAVEMENT (P-401)
- AC PAVEMENT SHOULDER (MAG-710)
- MILLINGS PLACEMENT

GENERAL NOTES:

1. REFER TO SHEET C4.1 THRU C4.3 FOR TYPICAL SECTIONS.
2. REFER TO SHEETS C5.1 THRU C5.4 FOR GEOMETRIC LAYOUT.
3. REFER TO PAVEMENT MARKING SHEETS C10.1 THRU C10.5 FOR TAXIWAY AND SHOULDER STRIPING.
4. REFER TO ELECTRICAL PLAN SHEETS FOR AIRFIELD LIGHTING.
5. SEE SHEET C1.4 FOR CENTERLINE ALIGNMENT DEFINITION.

CONSTRUCTION NOTES:

1. AC PAVEMENT
2. ASPHALT SHOULDER PAVEMENT

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GROWTH MANAGEMENT
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COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 PLAN AND PROFILE ALTERNATE 2

PROJECT NO. 191593007
DRAWING NAME 191593007PP.dwg
C6.3
SHEET NO. 36 OF 45

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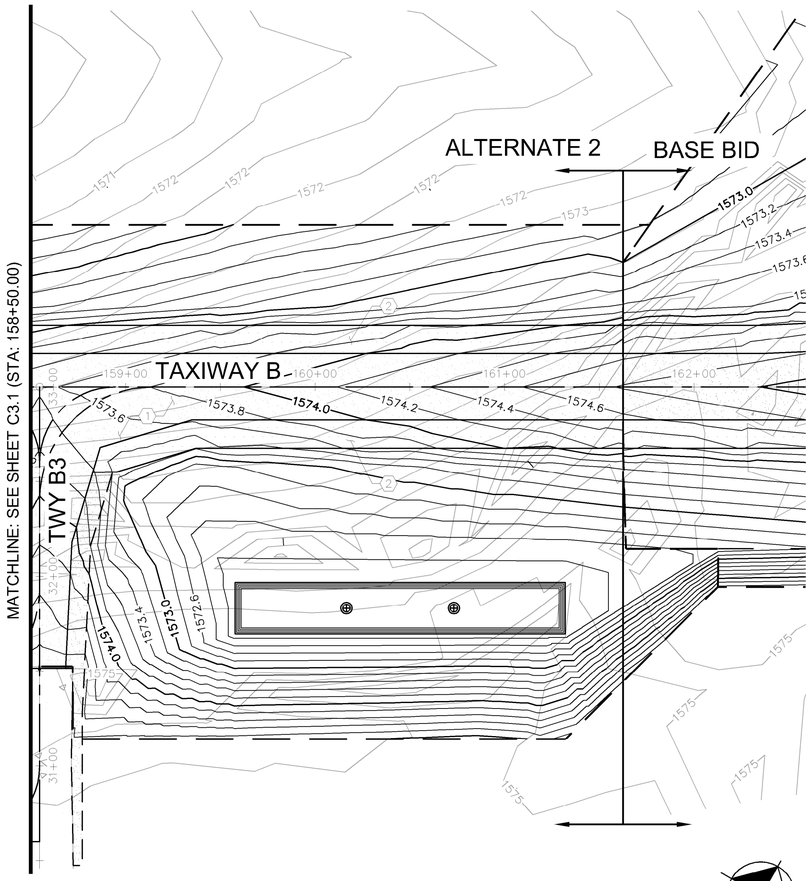

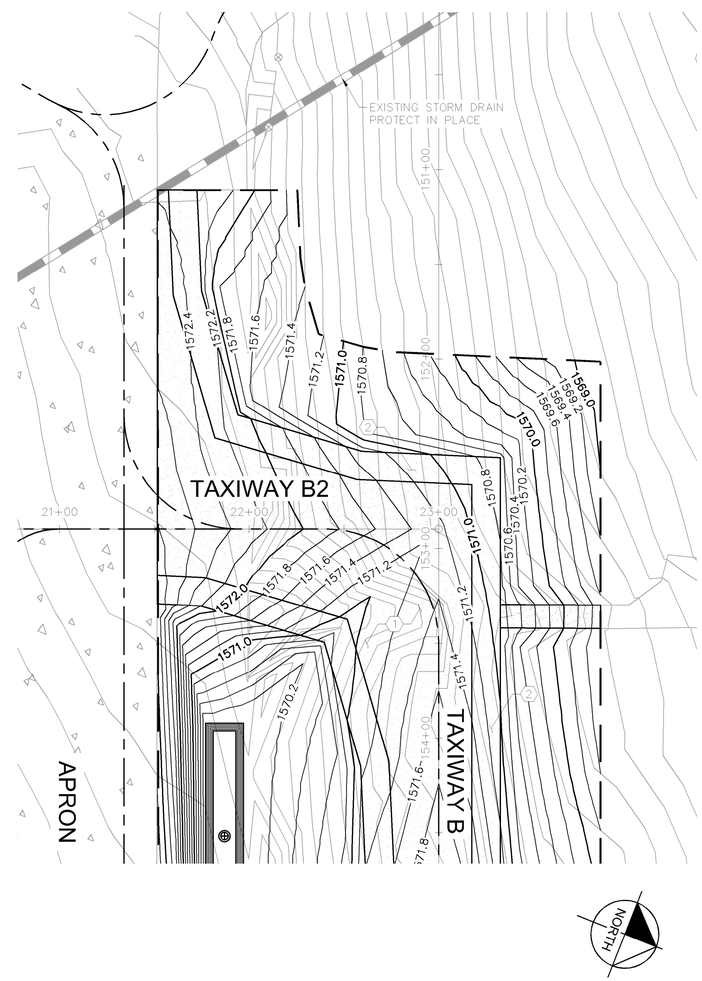

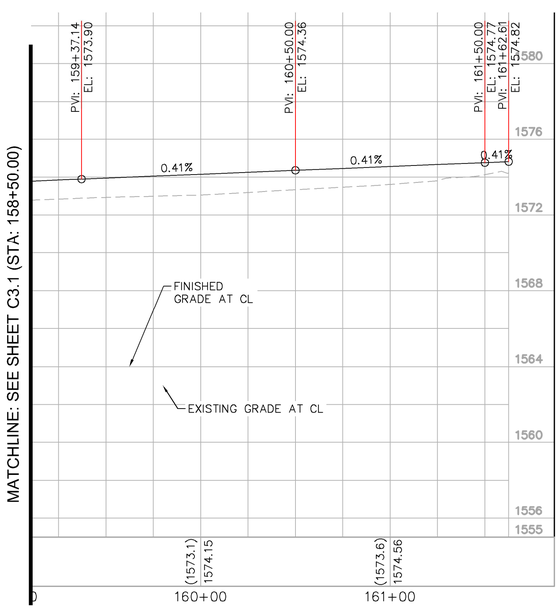

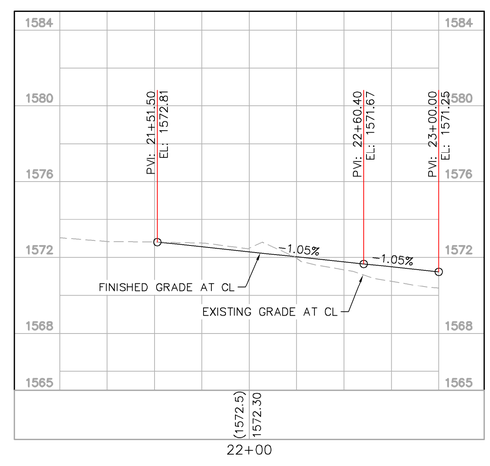

LEGEND

- AC PAVEMENT (P-401)
- AC PAVEMENT SHOULDER (MAG-710)
- MILLINGS PLACEMENT

GENERAL NOTES:

1. REFER TO SHEET C4.1 THRU C4.3 FOR TYPICAL SECTIONS.
2. REFER TO SHEETS C5.1 THRU C5.4 FOR GEOMETRIC LAYOUT.
3. REFER TO PAVEMENT MARKING SHEETS C10.1 THRU C10.5 FOR TAXIWAY AND SHOULDER STRIPING.
4. REFER TO ELECTRICAL PLAN SHEETS FOR AIRFIELD LIGHTING.
5. SEE SHEET C1.4 FOR CENTERLINE ALIGNMENT DEFINITION.

CONSTRUCTION NOTES:

1. AC PAVEMENT
2. ASPHALT SHOULDER PAVEMENT

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COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 PLAN AND PROFILE ALTERNATE 2

PROJECT NO.
191593007

DRAWING NAME
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C6.4

SHEET NO. 37 OF 45

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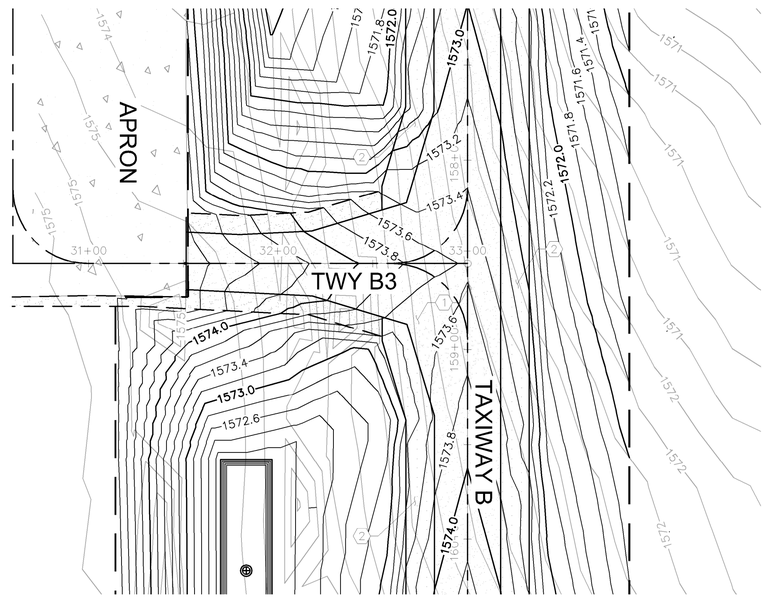

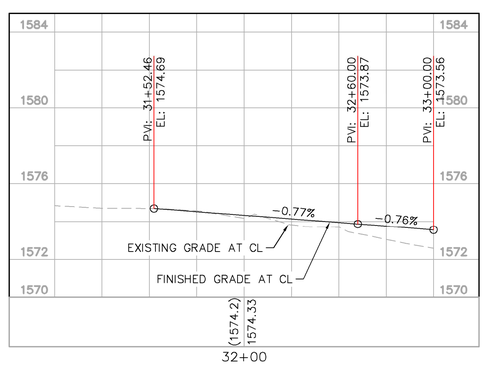

LEGEND

- AC PAVEMENT (P-401)
- AC PAVEMENT SHOULDER (MAG-710)
- MILLINGS PLACEMENT

GENERAL NOTES:

1. REFER TO SHEET C4.1 THRU C4.3 FOR TYPICAL SECTIONS.
2. REFER TO SHEETS C5.1 THRU C5.4 FOR GEOMETRIC LAYOUT.
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4. REFER TO ELECTRICAL PLAN SHEETS FOR AIRFIELD LIGHTING.
5. SEE SHEET C1.4 FOR CENTERLINE ALIGNMENT DEFINITION.

CONSTRUCTION NOTES:

1. AC PAVEMENT
2. ASPHALT SHOULDER PAVEMENT

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COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
PLAN AND PROFILE
ALTERNATE 2

PROJECT NO.
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DRAWING NAME
191593007PP.dwg

C6.5

SHEET NO. 38 OF 45

K:\PHX_Aviation\191593007 Coolidge OnCall Task4\CADD\191593007PP.dwg Jul 06, 2016 brandon.robinson
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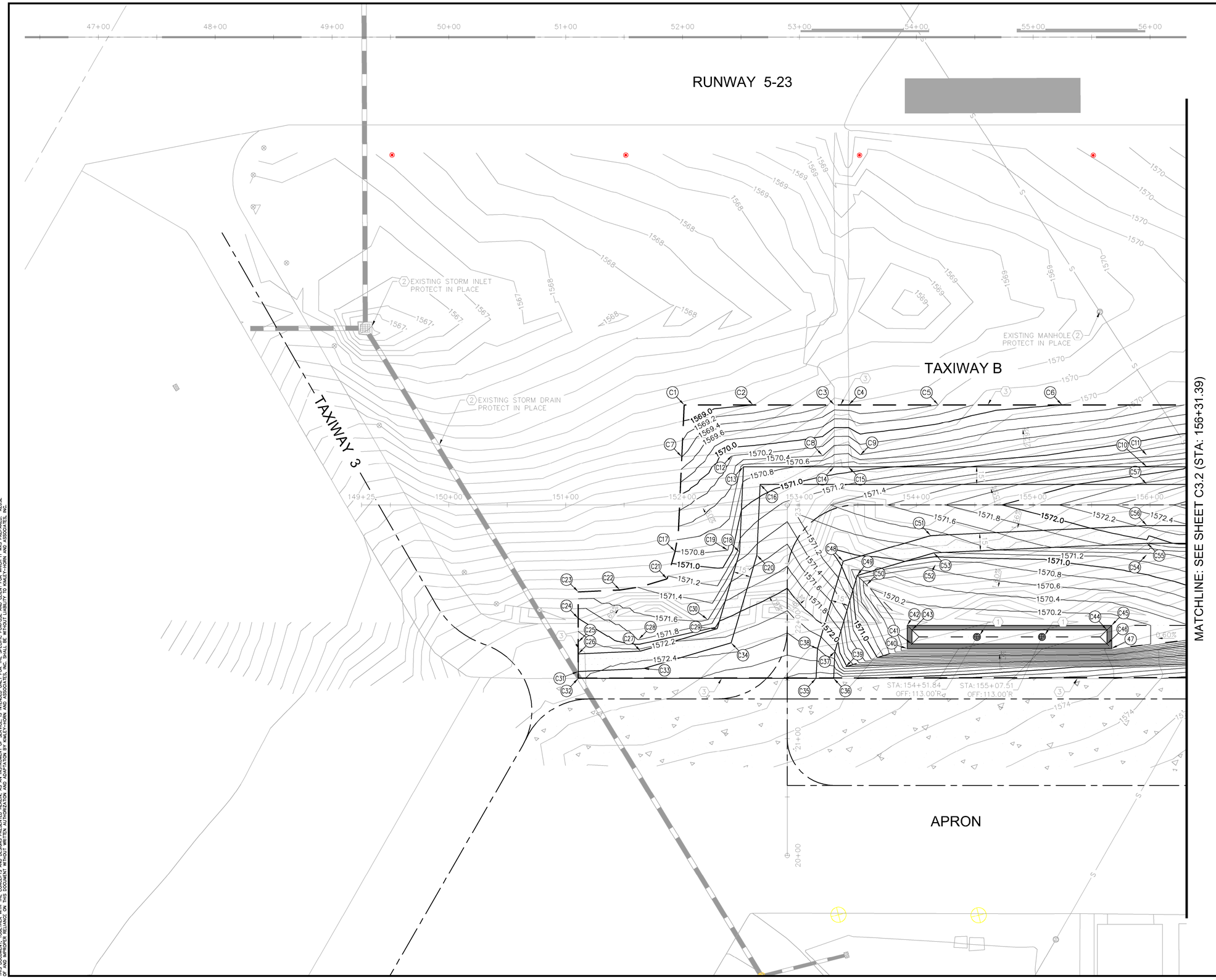

LEGEND

- AC PAVEMENT (P-401)
- AC PAVEMENT SHOULDER (MAG 710)
- MILLINGS PLACEMENT
- 1350 EXISTING CONTOUR
- 1350 PROPOSED CONTOUR
- X.XX% SLOPE DIRECTION
- GRADING LIMITS
- GRADE BREAK
- FLOW LINE
- X# PROPOSED SPOT ELEVATION
- PROPOSED DRYWELL
- EXISTING CATCH BASIN
- EXISTING TAXIWAY EDGE LIGHTS
- T EXISTING COMMUNICATION BOX
- EXISTING CACTUS
- EXISTING SANITARY SEWER MANHOLE
- S EXISTING SANITARY SEWER
- EXISTING STORM DRAIN PIPE

GENERAL NOTES:

1. REFER TO SHEET C1.4 FOR HORIZONTAL AND VERTICAL CONTROL
2. CONTRACTOR SHALL MATCH EXISTING PAVEMENT ELEVATIONS AS SHOWN ON PLAN. IF EXISTING ELEVATIONS DIFFER FROM THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
3. REFER TO ELECTRICAL PLANS (SERIES E) FOR AIRFIELD LIGHTING, SIGNING, AND ELECTRICAL FEATURES.
4. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK IN ANY AREA.
5. ALL STATIONS AND OFFSETS REFER TO THE APPROPRIATE RUNWAY OR TAXIWAY STATIONING.
6. DESIGN CONTOURS REPRESENT FINISHED GRADE (PAVEMENT AND GRADING). CONTOURS AND PERCENT OF SLOPE ARE APPROXIMATE AND ARE SHOWN AS SUPPLEMENTAL INFORMATION ONLY.

CONSTRUCTION NOTES:

REFER TO SHEET C7.7 FOR SPOT ELEVATION TABLES.

1. INSTALL DRYWELL
2. EXISTING STRUCTURE TO REMAIN PROTECTED IN PLACE
3. MATCH EXISTING GRADE
4. ADJUST EXISTING SANITARY SEWER STRUCTURE, SEE DETAILS ON SHEET C7.7

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

Call at least two full working days before you begin excavation. ARIZONA 811 Arizona Blue Stake, Inc. Dial 8-1-1 or 1-800-STAKE-IT (782-5348) In Maricopa County (602) 263-1100

NO.	REVISION	DATE

Kimley»Horn
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7740 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

Registered Professional Engineer (Civil) CERTIFICATE NO. 53933 BRIAN LEVI GALL Date Signed 07.6.16 ARIZONA, U.S.A. Exp. Date 12/31/18

SCALE (H):
SCALE (V):
DESIGNED BY: BLG
DRAWN BY: BLR
CHECKED BY: BLG
DATE: 07/01/16

COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 GRADING AND DRAINAGE ALTERNATE 2

PROJECT NO. 191593007

DRAWING NAME 191593007GD.dwg

C7.5

SHEET NO. 39 OF 45

K:\PHX_Aviation\191593007 Coolidge OnCall Task4\CADD\191593007GD.dwg Jul 06, 2016 brandon.robinson
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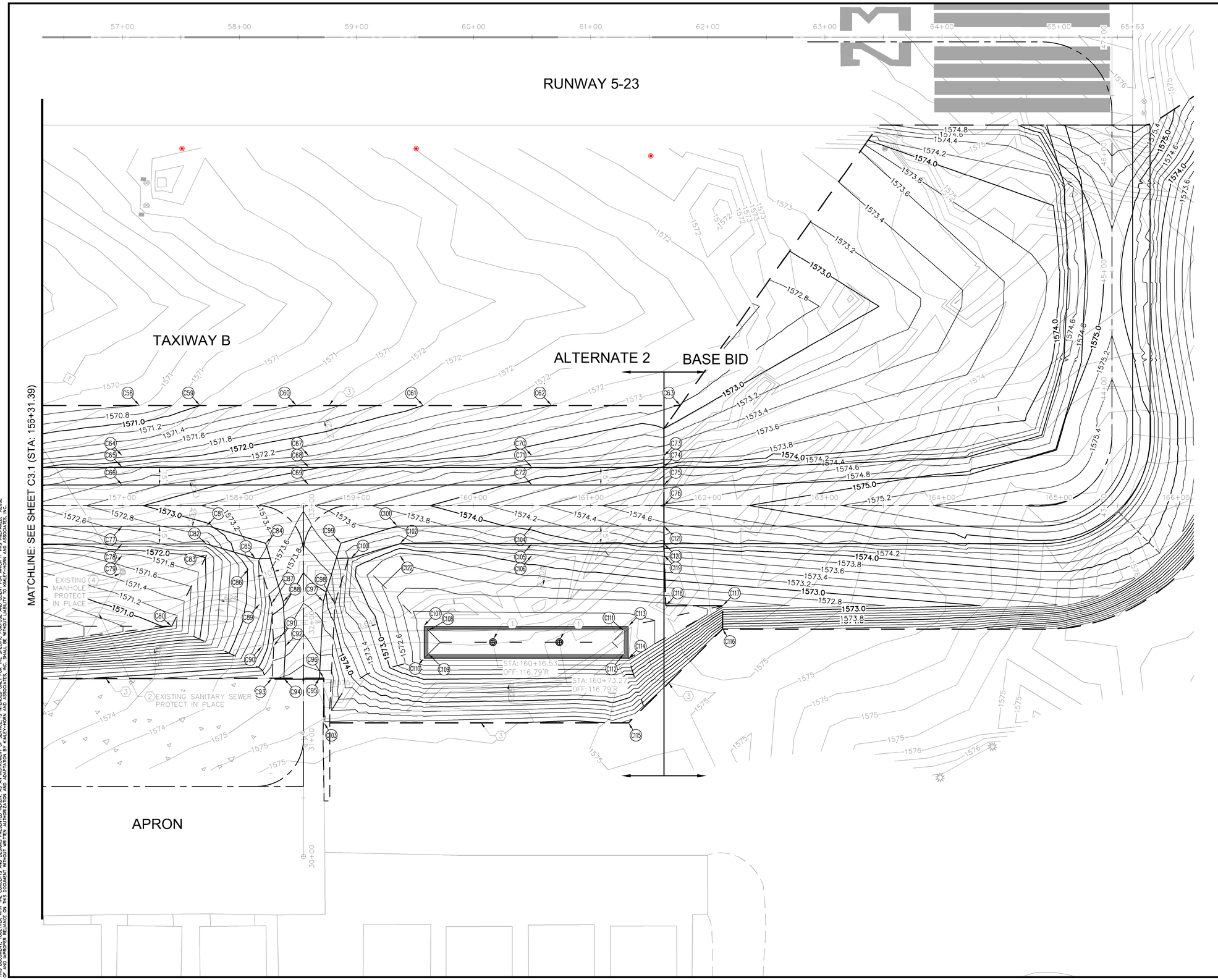

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PROJECT NO. 191593007

DRAWING NAME 191593007GD.dwg

C7.6

SHEET NO. 40 OF 45

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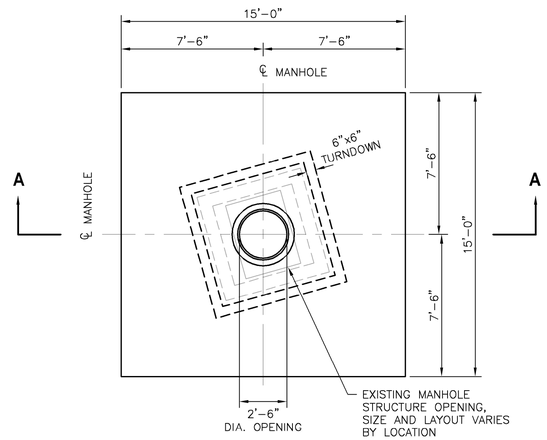
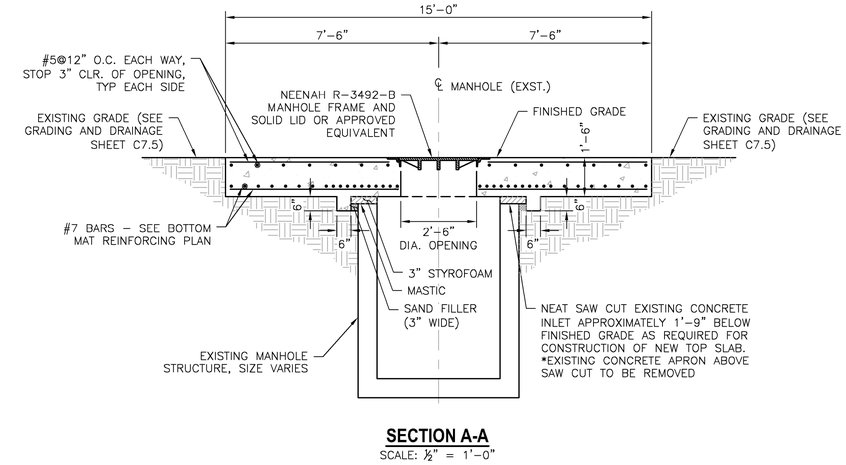
C#	ELEVATION CONTROL POINT		
DESCRIPTION	NORTHING	EASTING	ELEVATION
C1	705557.54	851446.60	1568.84
C2	705586.96	851497.51	1569.00
C3	705621.83	851557.83	1569.49
C4	705628.00	851568.51	1569.47
C5	705666.34	851634.85	1569.60
C6	705719.32	851726.50	1570.00
C7	705518.05	851467.07	1569.40
C8	705579.47	851570.48	1570.38
C9	705595.65	851598.48	1570.41
C10	705709.78	851815.92	1571.82
C11	705718.44	851810.92	1571.32
C12	705540.86	851503.68	1570.19
C13	705536.98	851516.95	1570.69
C14	705575.79	851584.10	1570.88
C15	705581.96	851594.78	1570.91
C16	705531.16	851536.86	1570.89
C17	705445.04	851502.62	1570.80
C18	705472.09	851550.58	1571.30
C19	705468.56	851541.15	1570.80
C20	705477.39	851564.73	1571.50
C21	705421.47	851508.35	1571.25
C22	705392.89	851478.20	1571.44
C23	705373.64	851448.16	1571.46
C24	705354.18	851459.40	1572.00
C25	705336.37	851469.70	1572.32
C26	705327.71	851474.71	1572.38
C27	705356.53	851519.67	1572.29
C28	705364.30	851513.27	1571.79
C29	705405.87	851566.70	1572.08
C30	705408.81	851555.69	1571.58
C31	705314.70	851482.22	1572.35
C32	705309.83	851485.04	1572.35
C33	705344.87	851529.29	1572.49
C34	705401.45	851583.21	1572.28
C35	705411.38	851661.34	1572.89
C36	705418.90	851674.34	1572.94
C37	705439.16	851663.84	1572.21
C38	705433.86	851649.69	1572.41
C39	705432.80	851678.40	1572.04
C40	705472.47	851716.08	1570.00
C41	705477.93	851717.54	1569.00
C42	705489.79	851706.07	1570.00
C43	705488.32	851711.53	1569.00
C44	705571.89	851856.12	1569.00
C45	705577.36	851857.58	1570.00
C46	705561.50	851862.12	1569.00
C47	705560.04	851867.59	1570.00
C48	705509.81	851631.21	1570.92
C49	705505.39	851647.72	1570.72
C50	705502.44	851658.73	1570.22
C51	705566.38	851685.13	1571.32
C52	705546.96	851701.16	1570.66
C53	705554.73	851694.75	1571.17
C54	705644.85	851853.45	1571.32
C55	705653.51	851848.45	1571.95
C56	705666.32	851841.05	1572.24
C57	705696.80	851823.43	1572.25
C58	705814.36	851890.95	1570.60
C59	705840.27	851935.77	1571.00
C60	705881.42	852006.97	1571.40
C61	705935.58	852100.66	1572.00

C#	ELEVATION CONTROL POINT		
DESCRIPTION	NORTHING	EASTING	ELEVATION
C62	705990.54	852195.76	1572.40
C63	706045.55	852290.93	1572.82
C64	705769.80	851899.77	1571.74
C65	705761.14	851904.77	1572.24
C66	705748.15	851912.28	1572.67
C67	705849.54	852037.74	1572.39
C68	705840.88	852042.74	1572.95
C69	705827.89	852050.25	1573.32
C70	705944.94	852202.79	1573.17
C71	705936.28	852207.80	1573.79
C72	705923.30	852215.30	1574.09
C73	706001.29	852300.29	1573.63
C74	705992.63	852305.29	1574.25
C75	705979.65	852312.80	1574.55
C76	705964.49	852321.55	1574.82
C77	705717.85	851929.79	1572.67
C78	705704.86	851937.30	1572.37
C79	705696.20	851942.30	1571.74
C80	705664.93	852009.09	1571.05
C81	705753.80	851992.00	1572.96
C82	705740.64	851999.61	1572.53
C83	705732.16	852004.51	1572.03
C84	705766.36	852043.11	1573.36
C85	705750.69	852042.05	1573.37
C86	705740.31	852041.60	1573.04
C87	705724.12	852073.38	1573.91
C88	705730.58	852081.12	1573.96
C89	705719.12	852064.72	1573.29
C90	705688.61	852084.44	1573.75
C91	705693.62	852093.11	1574.25
C92	705698.63	852101.78	1574.30
C93	705669.17	852105.65	1574.58
C94	705674.22	852114.30	1574.62
C95	705689.54	852140.58	1574.70
C96	705691.44	852143.84	1574.69
C97	705747.88	852110.64	1574.11
C98	705751.37	852120.09	1573.79
C99	705798.67	852098.61	1573.45
C100	705791.78	852112.72	1573.27
C101	705835.42	852133.20	1573.62
C102	705823.53	852142.61	1573.21
C103	705658.36	852163.18	1574.82
C104	705892.99	852232.82	1574.09
C105	705880.01	852240.32	1573.67
C106	705871.35	852245.33	1573.17
C107	705772.81	852195.33	1572.10
C108	705771.35	852200.79	1571.10
C109	705754.03	852210.80	1571.10
C110	705748.57	852209.34	1572.10
C111	705854.92	852345.38	1571.10
C112	705837.60	852355.39	1571.10
C113	705860.38	852346.84	1572.10
C114	705836.14	852360.85	1572.10
C115	705788.52	852388.37	1574.70
C116	705898.22	852417.71	1574.44
C117	705915.63	852407.88	1572.46
C118	705891.25	852365.69	1572.34
C119	705927.68	852342.83	1573.63
C120	705936.36	852337.82	1574.13
C121	705949.34	852330.31	1574.55
C122	705814.87	852147.61	1572.71

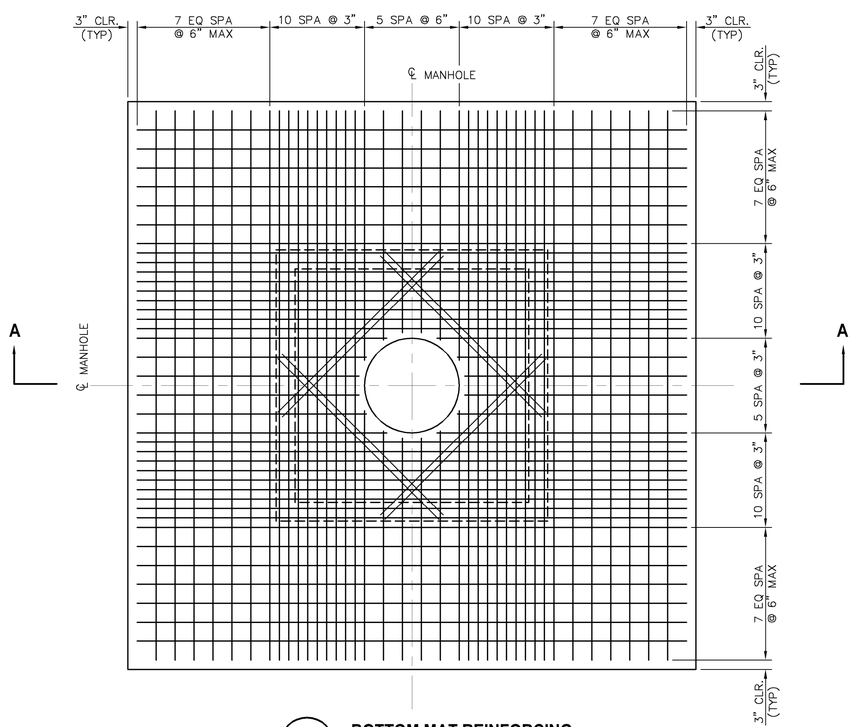


1 / C7.7 **TOP SLAB PLAN**
SCALE: ¼" = 1'-0"



SECTION A-A
SCALE: ½" = 1'-0"

3 / C7.7 **ADJUST EXISTING SANITARY SEWER STRUCTURE**



2 / C7.7 **BOTTOM MAT REINFORCING**
SCALE: ½" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR IS TO VERIFY DIMENSIONS OF EXISTING MANHOLES. IF EXISTING CONDITIONS ARE DIFFERENT THAN THOSE SHOWN IN THESE DETAILS, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO INSTALLATION OF SLAB REVISION.
2. TOP SLAB SHALL BE CENTERED OVER EXISTING MANHOLE OPENING. EXISTING MANHOLE OPENING SHALL NOT EXCEED 48"x48". SAW CUTTING OF THE EXISTING MANHOLE MAY BE REQUIRED FOR SETTING THE TOP SLAB AT PROPER GRADE.
3. REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF ASTM A615 GRADE 60. SUPPORTS AND ACCESSORIES SHALL BE FURNISHED AS SHOWN OR REQUIRED. CHAIRS PLACED AGAINST EXPOSED SURFACES SHALL BE GALVANIZED OR PROVIDED WITH PLASTIC FEET.
4. MINIMUM COVERAGE FOR REINFORCING SHALL BE THE CLEAR DISTANCE TO THE FACE OF BARS AS FOLLOWS: 2" UNLESS NOTED OTHERWISE.
5. ALL REINFORCING STEEL SHALL BE ACCURATELY POSITIONED AND ADEQUATELY TIED USING PROPER CHAIRS OR BOLSTERS AND SHALL BE INSPECTED PRIOR TO POURING CONCRETE.
6. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH, F'c = 4000 PSI.
7. ALL CONCRETE EDGES, CORNERS, AND INTERSECTIONS SHALL BE TOOLED OR CHAMFERED NO LESS THAN ½" WHETHER SHOWN OR NOT ON THE DRAWINGS.
8. ASSUMED LIVE LOAD: A WHEEL LOAD OF 62 KIPS BASED ON AIRBUS A380-800F MODEL FOR ALL TOP SLABS. MAX BEARING PRESSURE (DEAD + LIVE) = 1500 PSF. ALLOWABLE BEARING CAPACITY OF SOILS = 2000 PSF
9. SEE GEOTECHNICAL REPORT BY HOGUE & ASSOCIATES, INC., DATED 1-10-13.

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PROJECT NO. 191593007
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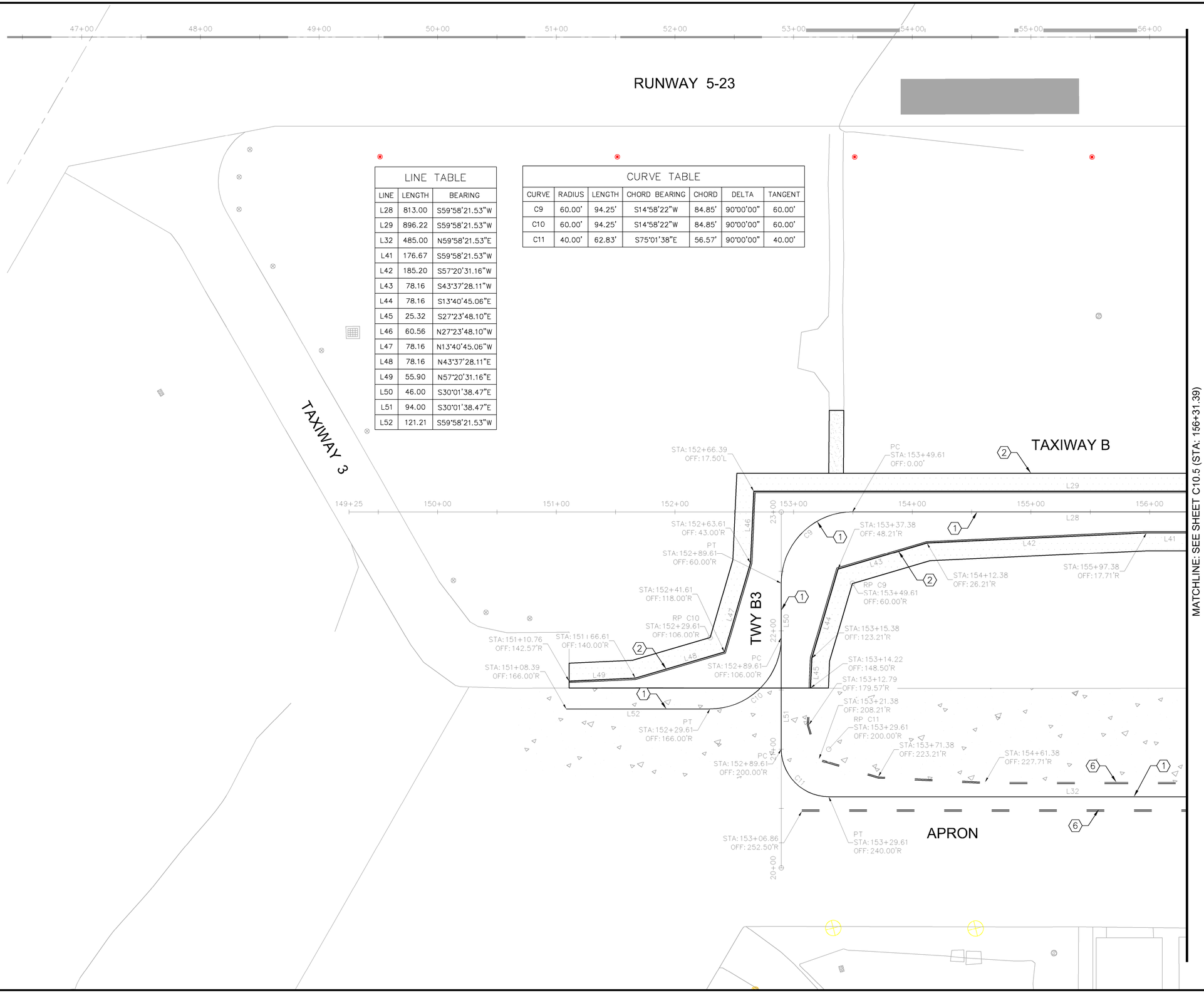

LINE TABLE		
LINE	LENGTH	BEARING
L28	813.00	S59°58'21.53"W
L29	896.22	S59°58'21.53"W
L32	485.00	N59°58'21.53"E
L41	176.67	S59°58'21.53"W
L42	185.20	S57°20'31.16"W
L43	78.16	S43°37'28.11"W
L44	78.16	S13°40'45.06"E
L45	25.32	S27°23'48.10"E
L46	60.56	N27°23'48.10"W
L47	78.16	N13°40'45.06"W
L48	78.16	N43°37'28.11"E
L49	55.90	N57°20'31.16"E
L50	46.00	S30°01'38.47"E
L51	94.00	S30°01'38.47"E
L52	121.21	S59°58'21.53"W

CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C9	60.00'	94.25'	S14°58'22"W	84.85'	90°00'00"	60.00'
C10	60.00'	94.25'	S14°58'22"W	84.85'	90°00'00"	60.00'
C11	40.00'	62.83'	S75°01'38"E	56.57'	90°00'00"	40.00'

GENERAL NOTES

1. PAVEMENT MARKINGS 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 AC, THE AC SHALL TAKE PRECEDENCE.
2. CONTRACTOR SHALL SURVEY THE EXISTING PAVEMENT MARKINGS PRIOR TO CONSTRUCTION. PROPOSED PAVEMENT MARKINGS SHALL TIE INTO THE EXISTING MARKINGS AT THE LIMITS OF THE PROJECT PER THE EXISTING SURVEYED MARKINGS. PROPOSED MARKINGS SHALL BE INSTALLED PER THE DIMENSIONS SHOWN ON THE PAVEMENT MARKING PLANS/DETAILS. ALL OTHER MARKINGS SHALL BE RE-INSTALLED PER THEIR EXISTING SURVEYED LOCATIONS.

CONSTRUCTION NOTES:

1. INSTALL SIX INCH (6") WIDE TAXIWAY CENTERLINE PAVEMENT MARKING, PER DETAIL 1 SHEET C10.2.
2. INSTALL DOUBLE SIX INCH (6") WIDE TAXIWAY EDGE PAVEMENT MARKING, PER DETAIL 2 SHEET C10.2.
3. INSTALL RUNWAY HOLDING POSITION MARKING, PER DETAIL 3 SHEET C10.2.
4. INSTALL ENHANCED TAXIWAY CENTERLINE PAVEMENT MARKING. PER DETAIL 3 SHEET C10.2.
5. INSTALL SIX INCH (6") SOLID YELLOW RUNWAY/TAXIWAY INTERSECTION MARKINGS PER DETAIL 4, SHEET C10.2.
6. INSTALL DOUBLE SIX INCH (6") WIDE DASHED TAXIWAY EDGE PAVEMENT MARKING, PER DETAIL 5 SHEET C10.2.
7. MATCH EXISTING

NOTE: IF PROPOSED MARKINGS ON EXISTING PAVEMENT DO NOT CORRESPOND WITH EXISTING MARKINGS, EXISTING MARKINGS SHALL BE OBLITERATED (ITEM 620). LIMITS OF OBLITERATION TO BE COORDINATED WITH INSPECTOR PRIOR TO OBLITERATION.

NORTH

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DESIGNED BY: BLG
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DATE: 07/01/16

COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT REHABILITATE TAXIWAY B & B4 PAVEMENT MARKING PLAN ALTERNATE 2

PROJECT NO.
191593007

DRAWING NAME
191593007PM.dwg

C10.4

K:\PHX_Aviation\191593007 Coolidge OnCall Task4\C40T\191593007PM.dwg Jul 06, 2016 brandon.robinson
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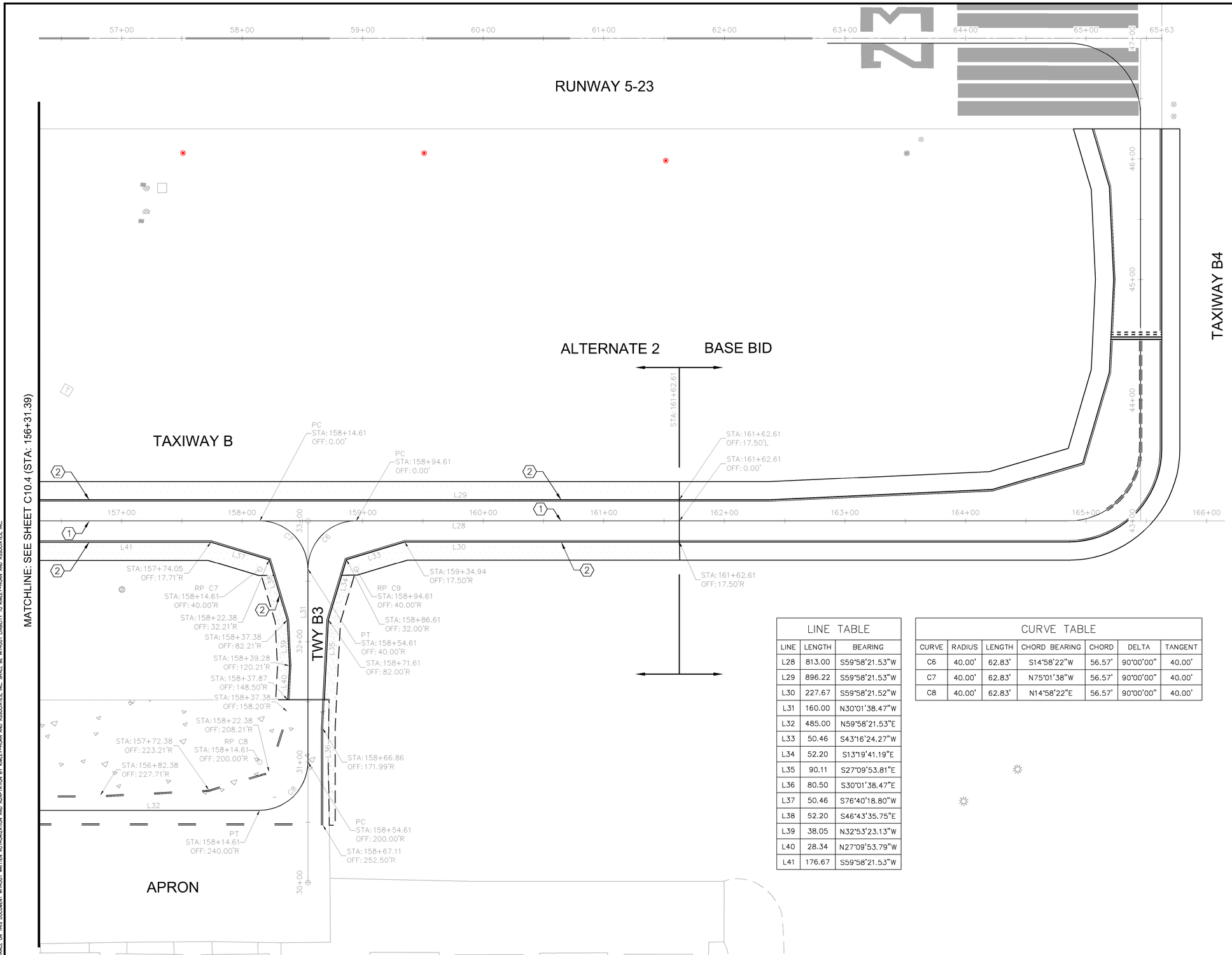

LINE TABLE		
LINE	LENGTH	BEARING
L28	813.00	S59°58'21.53"W
L29	896.22	S59°58'21.53"W
L30	227.67	S59°58'21.52"W
L31	160.00	N30°01'38.47"W
L32	485.00	N59°58'21.53"E
L33	50.46	S43°16'24.27"W
L34	52.20	S13°19'41.19"E
L35	90.11	S27°09'53.81"E
L36	80.50	S30°01'38.47"E
L37	50.46	S76°40'18.80"W
L38	52.20	S46°43'35.75"E
L39	38.05	N32°53'23.13"W
L40	28.34	N27°09'53.79"W
L41	176.67	S59°58'21.53"W

CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C6	40.00'	62.83'	S14°58'22"W	56.57'	90°00'00"	40.00'
C7	40.00'	62.83'	N75°01'38"W	56.57'	90°00'00"	40.00'
C8	40.00'	62.83'	N14°58'22"E	56.57'	90°00'00"	40.00'

GENERAL NOTES

1. PAVEMENT MARKINGS 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 AC, THE AC SHALL TAKE PRECEDENCE.
2. CONTRACTOR SHALL SURVEY THE EXISTING PAVEMENT MARKINGS PRIOR TO CONSTRUCTION. PROPOSED PAVEMENT MARKINGS SHALL TIE INTO THE EXISTING MARKINGS AT THE LIMITS OF THE PROJECT PER THE EXISTING SURVEYED MARKINGS. PROPOSED MARKINGS SHALL BE INSTALLED PER THE DIMENSIONS SHOWN ON THE PAVEMENT MARKING PLANS/DETAILS. ALL OTHER MARKINGS SHALL BE RE-INSTALLED PER THEIR EXISTING SURVEYED LOCATIONS.

CONSTRUCTION NOTES:

1. INSTALL SIX INCH (6") WIDE TAXIWAY CENTERLINE PAVEMENT MARKING, PER DETAIL 1 SHEET C10.2.
2. INSTALL DOUBLE SIX INCH (6") WIDE TAXIWAY EDGE PAVEMENT MARKING, PER DETAIL 2 SHEET C10.2.
3. INSTALL RUNWAY HOLDING POSITION MARKING, PER DETAIL 3 SHEET C10.2.
4. INSTALL ENHANCED TAXIWAY CENTERLINE PAVEMENT MARKING. PER DETAIL 3 SHEET C10.2.
5. INSTALL SIX INCH (6") SOLID YELLOW RUNWAY/TAXIWAY INTERSECTION MARKINGS PER DETAIL 4, SHEET C10.2.
6. INSTALL DOUBLE SIX INCH (6") WIDE DASHED TAXIWAY EDGE PAVEMENT MARKING, PER DETAIL 5 SHEET C10.2.
7. MATCH EXISTING

NOTE: IF PROPOSED MARKINGS ON EXISTING PAVEMENT DO NOT CORRESPOND WITH EXISTING MARKINGS, EXISTING MARKINGS SHALL BE OBLITERATED (ITEM 620). LIMITS OF OBLITERATION TO BE COORDINATED WITH INSPECTOR PRIOR TO OBLITERATION.

NORTH

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7740 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

Registered Professional Engineer (Civil)
CERTIFICATE NO. 53933
BRIAN LEVI GALL
Date Signed 07/6/16
ARIZONA, U.S.A.
Exp. Date 12/31/18

SCALE (H):
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COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINCKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
PAVEMENT MARKING PLAN
ALTERNATE 2

PROJECT NO.
191593007

DRAWING NAME
191593007PM.dwg

C10.5

SHEET NO. 43 OF 45

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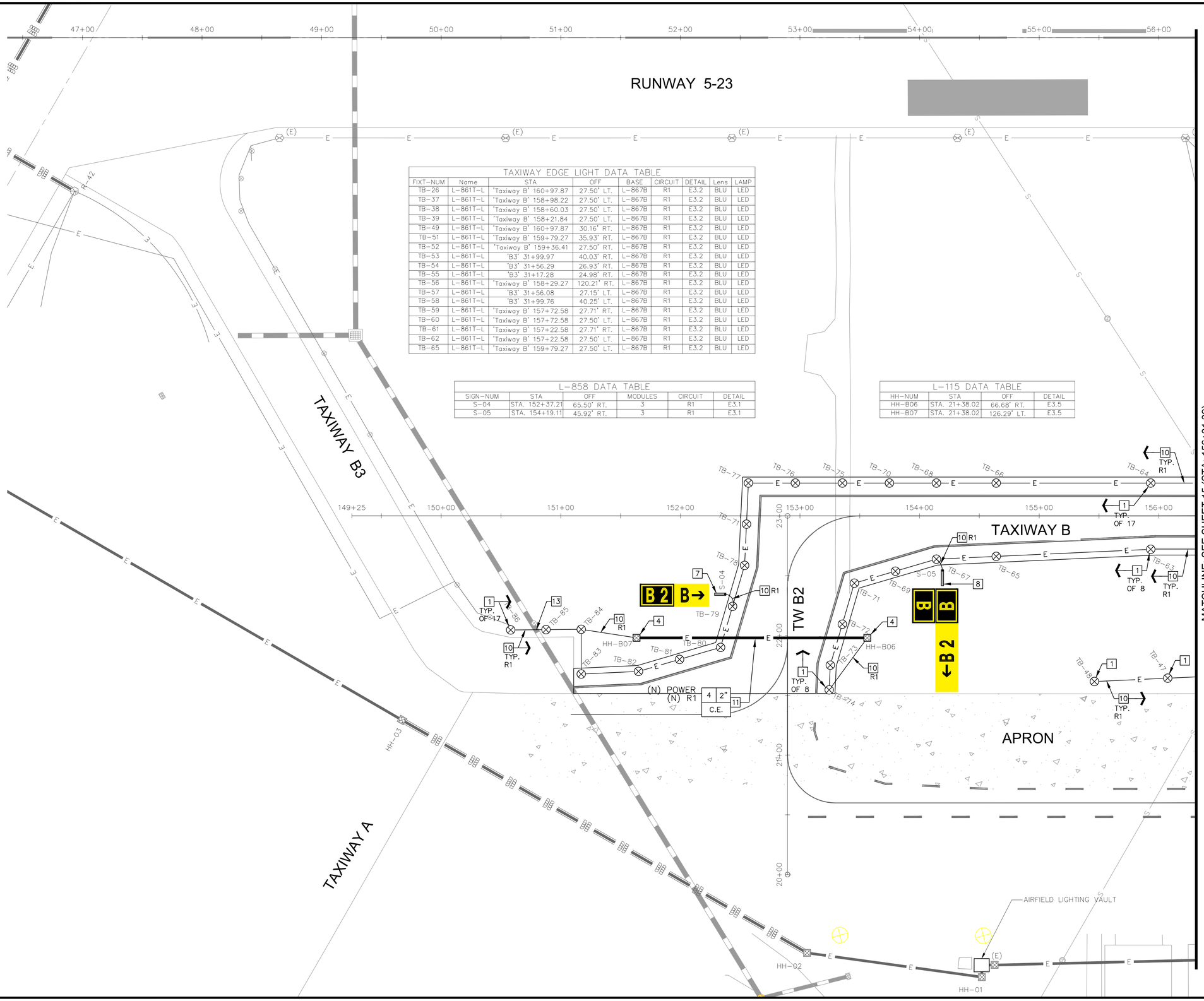


TAXIWAY EDGE LIGHT DATA TABLE								
FIXT-NUM	Name	STA	OFF	BASE	CIRCUIT	DETAIL	Lens	LAMP
TB-26	L-861T-L	'Taxiway B' 160+97.87	27.50' LT.	L-867B	R1	E3.2	BLU	LED
TB-37	L-861T-L	'Taxiway B' 158+98.22	27.50' LT.	L-867B	R1	E3.2	BLU	LED
TB-38	L-861T-L	'Taxiway B' 158+60.03	27.50' LT.	L-867B	R1	E3.2	BLU	LED
TB-39	L-861T-L	'Taxiway B' 158+21.84	27.50' LT.	L-867B	R1	E3.2	BLU	LED
TB-49	L-861T-L	'Taxiway B' 160+97.87	30.16' RT.	L-867B	R1	E3.2	BLU	LED
TB-51	L-861T-L	'Taxiway B' 159+79.27	35.93' RT.	L-867B	R1	E3.2	BLU	LED
TB-52	L-861T-L	'Taxiway B' 159+36.41	27.50' RT.	L-867B	R1	E3.2	BLU	LED
TB-53	L-861T-L	'B3' 31+99.97	40.03' RT.	L-867B	R1	E3.2	BLU	LED
TB-54	L-861T-L	'B3' 31+56.29	26.93' RT.	L-867B	R1	E3.2	BLU	LED
TB-55	L-861T-L	'B3' 31+17.28	24.98' RT.	L-867B	R1	E3.2	BLU	LED
TB-56	L-861T-L	'Taxiway B' 158+29.27	120.21' RT.	L-867B	R1	E3.2	BLU	LED
TB-57	L-861T-L	'B3' 31+56.08	27.15' LT.	L-867B	R1	E3.2	BLU	LED
TB-58	L-861T-L	'B3' 31+99.76	40.25' LT.	L-867B	R1	E3.2	BLU	LED
TB-59	L-861T-L	'Taxiway B' 157+72.58	27.71' RT.	L-867B	R1	E3.2	BLU	LED
TB-60	L-861T-L	'Taxiway B' 157+72.58	27.50' LT.	L-867B	R1	E3.2	BLU	LED
TB-61	L-861T-L	'Taxiway B' 157+22.58	27.71' RT.	L-867B	R1	E3.2	BLU	LED
TB-62	L-861T-L	'Taxiway B' 157+22.58	27.50' LT.	L-867B	R1	E3.2	BLU	LED
TB-65	L-861T-L	'Taxiway B' 159+79.27	27.50' LT.	L-867B	R1	E3.2	BLU	LED

L-858 DATA TABLE					
SIGN-NUM	STA	OFF	MODULES	CIRCUIT	DETAIL
S-04	STA. 152+37.21	65.50' RT.	3	R1	E3.1
S-05	STA. 154+19.11	45.92' RT.	3	R1	E3.1

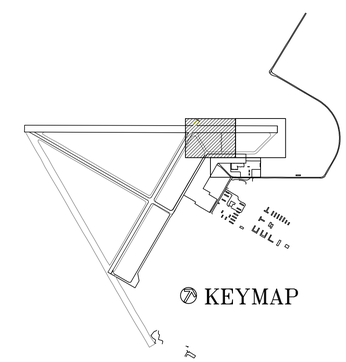
L-115 DATA TABLE			
HH-NUM	STA	OFF	DETAIL
HH-B06	STA. 21+38.02	66.68' RT.	E3.5
HH-B07	STA. 21+38.02	126.29' LT.	E3.5

CONSTRUCTION NOTES

1. PROVIDE AND INSTALL NEW L-861T LED MEDIUM INTENSITY TAXIWAY EDGE LIGHT ON NEW L-867B BASECAN WITH NEW ISOLATION TRANSFORMER AND CABLES. SEE E3.2 FOR DETAIL.
4. PROVIDE AND INSTALL NEW CONCRETE HANDHOLE AND CONNECT TO NEW AIRFIELD DUCTBANK. SEE E3.5 FOR DETAIL.
7. PROVIDE AND INSTALL NEW SIZE 1, 2-MODULE LED AIRFIELD GUIDANCE SIGN ON NEW CONCRETE BASE WITH NEW L-867B BASECAN AND NEW ISOLATION TRANSFORMER AND CABLES. SEE E3.1 FOR DETAIL.
8. PROVIDE AND INSTALL NEW SIZE 1, 3-MODULE LED AIRFIELD GUIDANCE SIGN ON NEW CONCRETE BASE WITH NEW L-867B BASECAN AND NEW ISOLATION TRANSFORMER AND CABLES. SEE E3.1 FOR DETAIL.
10. INSTALL NEW DIRECT BURIAL CONDUIT. INSTALL NEW CIRCUIT PER CIRCUIT MAPS.
11. INSTALL NEW CONCRETE ENCASED CONDUIT. INSTALL NEW CIRCUIT PER CIRCUIT MAPS.
13. HAND EXCAVATE NEAR EXISTING UTILITY CROSSING.

GENERAL NOTES

1. FOR ALTERNATE BIDS 1A AND 2A, PROVIDE AND INSTALL NEW ELEVATED RETROREFLECTIVE MARKERS AT L-861T LOCATIONS AS PER THE DATA TABLES.
2. FOR ALTERNATE BIDS 1A AND 2A, PROVIDE AND INSTALL NEW UNLIGHTED GUIDANCE SIGNS AT L-858 LOCATIONS AS PER THE DATA TABLES.



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Phoenix, Arizona 85020 (602) 944-5500

Registered Professional Engineer (Electrical)
CERTIFICATE NO. 31798
ERIC C. LOVEJOY
Date Signed 07/06/16
EXPIRES 9/30/17

SCALE (H):
SCALE (V):
DESIGNED BY: ECL
DRAWN BY: JDB
CHECKED BY: DYE
DATE: 07/06/2016

COOLIDGE MUNICIPAL AIRPORT
CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
COOLIDGE, AZ 85228

COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
ALT BID 2 ELECTRICAL LAYOUT

PROJECT NO.
191842000

DRAWING NAME

E1.3 OF 45

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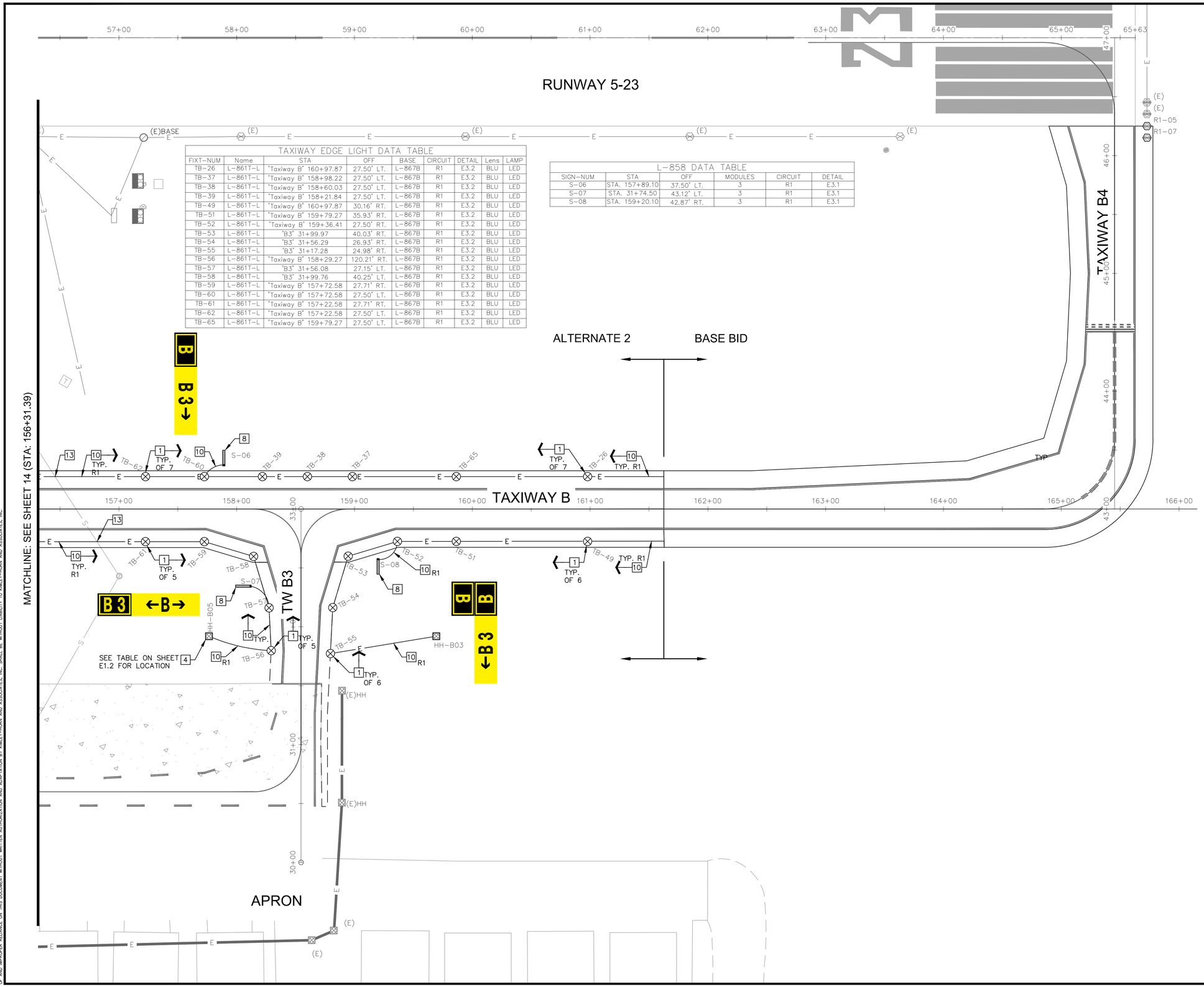

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TB-39	L-861T-L	'Taxiway B' 158+21.84	27.50' LT.	L-867B	R1	E3.2	BLU	LED
TB-49	L-861T-L	'Taxiway B' 160+97.87	30.16' RT.	L-867B	R1	E3.2	BLU	LED
TB-51	L-861T-L	'Taxiway B' 159+79.27	35.93' RT.	L-867B	R1	E3.2	BLU	LED
TB-52	L-861T-L	'Taxiway B' 159+36.41	27.50' RT.	L-867B	R1	E3.2	BLU	LED
TB-53	L-861T-L	'B3' 31+99.97	40.03' RT.	L-867B	R1	E3.2	BLU	LED
TB-54	L-861T-L	'B3' 31+56.29	26.93' RT.	L-867B	R1	E3.2	BLU	LED
TB-55	L-861T-L	'B3' 31+17.28	24.98' RT.	L-867B	R1	E3.2	BLU	LED
TB-56	L-861T-L	'Taxiway B' 158+29.27	120.21' RT.	L-867B	R1	E3.2	BLU	LED
TB-57	L-861T-L	'B3' 31+56.08	27.15' LT.	L-867B	R1	E3.2	BLU	LED
TB-58	L-861T-L	'B3' 31+99.76	40.25' LT.	L-867B	R1	E3.2	BLU	LED
TB-59	L-861T-L	'Taxiway B' 157+72.58	27.71' RT.	L-867B	R1	E3.2	BLU	LED
TB-60	L-861T-L	'Taxiway B' 157+72.58	27.50' LT.	L-867B	R1	E3.2	BLU	LED
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TB-65	L-861T-L	'Taxiway B' 159+79.27	27.50' LT.	L-867B	R1	E3.2	BLU	LED

L-858 DATA TABLE

SIGN-NUM	STA	OFF	MODULES	CIRCUIT	DETAIL
S-06	STA. 157+89.10	37.50' LT.	3	R1	E3.1
S-07	STA. 31+74.50	43.12' LT.	3	R1	E3.1
S-08	STA. 159+20.10	42.87' RT.	3	R1	E3.1

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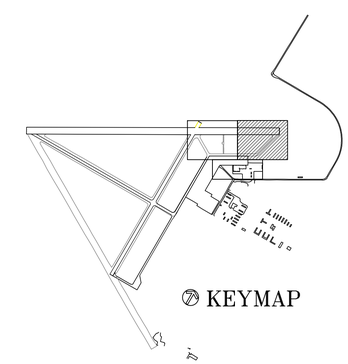

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Registered Professional Engineer (Electrical) CERTIFICATE NO. 31798 ERIC C. LOVEJOY Date Signed 7/06/16 EXPIRES 9/30/17

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CITY OF COOLIDGE
GROWTH MANAGEMENT
131 W PINKLEY AVE
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COOLIDGE MUNICIPAL AIRPORT
REHABILITATE TAXIWAY B & B4
ALT BID 2 ELECTRICAL LAYOUT

PROJECT NO.
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