



MAYOR
W.J. "JIM" LANE

CITY COUNCIL
SUZANNE KLAPP
VIRGINIA KORTE
KATHY LITTLEFIELD
LINDA MILHAVEN
GUY PHILLIPS
DAVID N. SMITH

SCOTTSDALE AIRPORT

DELTA APRON RECONSTRUCTION

15255 N. AIRPORT DRIVE SCOTTSDALE, AZ 85260

MARCH 19, 2018

BID SET

PROJECT DESCRIPTION

FAA AIP NO.: 3-04-0032-036-2018
ADOT NO.: E9XXX
CITY PROJECT NO.: AC02A
BID NO.: 18PB021

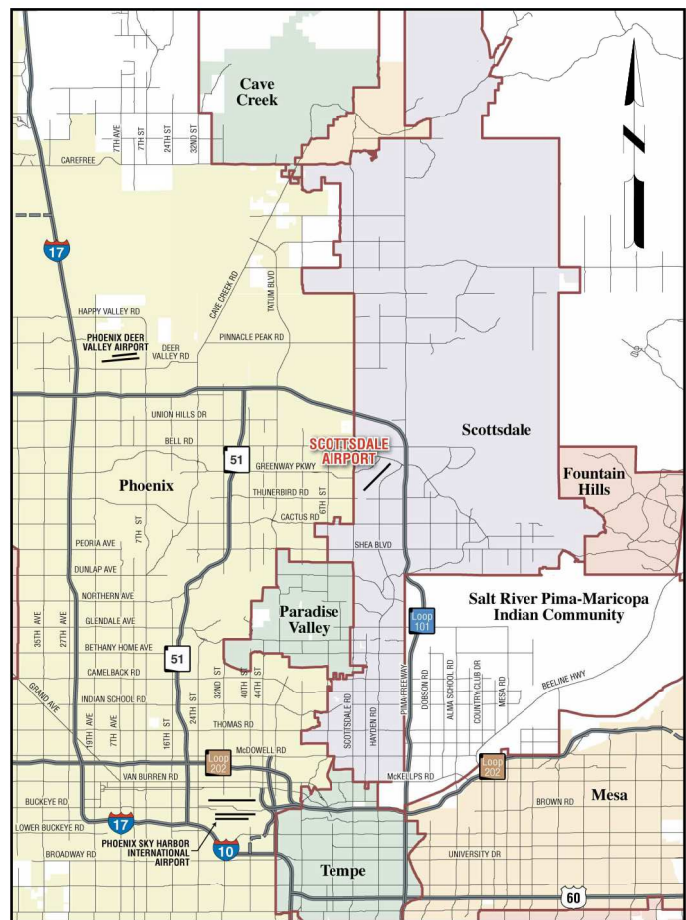
PROJECT ELEMENTS:

1. REMOVAL OF CONCRETE TIE DOWN ANCHORS
2. REMOVAL OF FIRE HYDRANT VAULTS & WATER LINE MODIFICATIONS
3. PARTIAL PULLBOX REMOVAL
4. REMOVAL OF PAVEMENT MARKINGS
5. PAVEMENT REMOVAL, COLD MILLING, FULL DEPTH
6. PAVEMENT REMOVAL, CONCRETE, FULL DEPTH
3. TEMPORARY HMA PAVEMENT, MARKINGS & FENCING MODIFICATIONS
4. REMOVAL & REPLACEMENT OF SLURRY/CONCRETE CAP FOR DUCTBANKS
5. UNCLASSIFIED EXCAVATION, P-152
6. SOIL-CEMENT BASE COURSE, P-301
7. CRUSHED AGGREGATE BASE COURSE, P-209
8. HOT MIX ASPHALT SURFACE COURSE, P-401
9. NEW CONCRETE TIE DOWN ANCHORS
10. NEW PAVEMENT MARKINGS, P-620

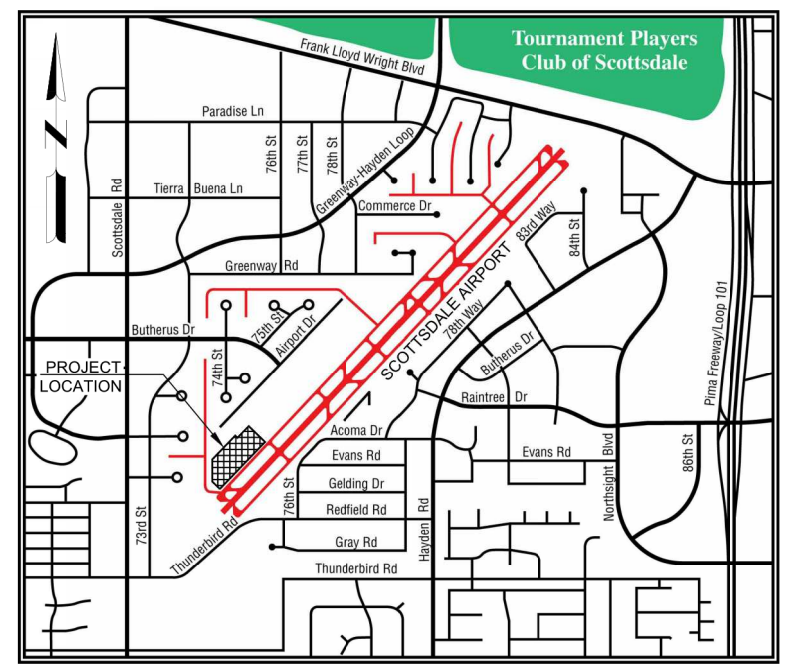
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VICINITY MAP
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LOCATION MAP
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COVER SHEET

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G-001



Call at least two full working days before you begin excavation

ARIZONA 811
Arizona Blue Stake, Inc.
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LEGEND

SYMBOLS

	BENCHMARK
	CONTROL POINT
	BOLLARD
	CLEANOUT, SANITARY OR STORM
	ELECTRIC MANHOLE
	ELECTRIC METER
	ELECTRIC PEDESTAL BOX
	ELECTRIC TRANSFORMER BOX
	ELECTRIC SERVICE PANEL
	ELECTRIC HANDHOLE (PULLBOX)
	FIBER OPTIC MANHOLE
	FIRE HYDRANT
	IRON PIN
	LIGHT BOLLARD
	FLOODLIGHT POLE
	LIGHT POLE (SINGLE)
	LIGHT POLE (DOUBLE)
	MARKER, CABLE
	MARKER, DUCT
	MONITORING WELL, EXISTING
	MONITORING WELL, PROPOSED
	PIEZOMETER
	SANITARY SEPTIC TANK VALVE
	SANITARY SEWER LIFT STATION
	SANITARY SEWER MANHOLE
	SANITARY SEWER VALVE
	SANITARY SEWER WET WELL
	SOIL BORING
	CATCH BASIN, ROUND
	CATCH BASIN, SQUARE
	FLARED END SECTION
	STORM DRAIN MANHOLE
	STORM WATER QUALITY MANHOLE
	TELECOMMUNICATIONS MANHOLE
	TELECOMMUNICATIONS PEDESTAL BOX
	CTV PEDESTAL BOX
	TRAFFIC FLOW DIRECTION
	UTILITY CROSSING / CONFLICT or CAUTION
	UNDERDRAIN FLUSHER RISER
	UNDERDRAIN MANHOLE
	VALVE MANHOLE
	WATER AIR RELIEF VALVE
	WATER BLOW OFF VALVE
	WATER MANHOLE
	WATER METER
	WATER PRESSURE VALVE
	WATER REDUCER
	WATER VALVE
	WATER SHUT OFF
	WATER TANK
	WATER SURFACE
	SECTION REFERENCE
	EXISTING SPOT ELEVATION
	FINISHED / PROPOSED SPOT ELEVATION
	FINISHED / PROPOSED SLOPE
	DRAINAGE FLOW DIRECTION
	INLET PROTECTION
	PORTABLE TRAFFIC DELINEATOR
	TRAFFIC CONE
	HAUL ROUTE / GATE GUARD
	WINDCONE

LINES

	GRADING LIMIT
	GAS
	ELECTRIC, UNDERGROUND
	EXISTING CONTOUR LINES
	PROPOSED CONTOUR LINES
	FENCE, CHAIN-LINK
	FIBER OPTIC CABLE
	FORCE MAIN
	GRADE BREAK
	HAUL or TRAFFIC ROUTE
	PROPERTY LINE
	SANITARY SEWER
	STORM DRAIN / CULVERT
	SWALE
	UNDERDRAIN
	WATER
	MARKING REMOVAL, BLACK OUT
	MARKING REMOVAL, 100%
	OBJECT FREE AREA
	OBSTACLE FREE ZONE
	RUNWAY OBJECT FREE AREA
	RUNWAY PROTECTION ZONE
	RUNWAY SAFETY AREA
	TAXIWAY OBJECT FREE AREA
	TAXIWAY SAFETY AREA
	LOW PROFILE BARRICADES
	PHASE LIMIT

GENERAL ABBREVIATIONS

AB	AGGREGATE BASE	IE	INVERT ELEVATION
AC	ASPHALT CONCRETE	IN	INCHES
ALT	ALTERNATE	IP	IN-PAVEMENT
AOA	AIR OPERATIONS AREA	L	LENGTH
APCH	APPROACH	LBS	POUNDS
APPROX	APPROXIMATE	LF	LINEAL FEET
ASB	AGGREGATE SUBBASE	LOC	LOCALIZER
ASOS	AUTOMATED SURFACE OBSERVING SYSTEM	LWL	LOW WATER LEVEL
AR	ACCESS ROAD	MH	MANHOLE
ATCT	AIR TRAFFIC CONTROL TOWER	MAX	MAXIMUM
ATO	AIR TRAFFIC ORGANIZATION	MID	MIDPOINT
AWG	AMERICAN WIRE GAUGE	MIN	MINIMUM
BC	BEGINNING OF CURVE	MALS	MEDIUM APPROACH LIGHTING SYSTEM
BIT	BITUMINOUS	MRL	MEDIUM INTENSITY RUNWAY LIGHT
BLDG	BUILDING	MTL	MEDIUM INTENSITY TAXIWAY LIGHT
BM	BENCHMARK	MPH	MILES PER HOUR
BOT	BOTTOM	(N), N	NEW
BVC	BEGINNING OF VERTICAL CURVE	NIC	NOT IN CONTRACT
C-C	CENTER TO CENTER	NO. OR #	NUMBER
CASPR	CRUSHED AGGREGATE SLOPE PROTECTION ROCK	NOTAM	NOTICE TO AIRMAN
CB	CATCH BASIN	NTS	NOT TO SCALE
CIPCP	CAST-IN-PLACE CONCRETE PIPE	OFF	OFFSET
CJ	CONSTRUCTION JOINT	O/S	OFFSET
CFS	CUBIC FEET PER SECOND	OC	ON CENTER
CL	CENTERLINE	OH	OVERHEAD
CLF	CHAIN-LINK FENCE	OWS	OIL WATER SEPARATOR
CLR	CLEAR	PB	PULL BOX
CMP	CORRUGATED METAL PIPE	PC	POINT OF CURVATURE
CO	CLEANOUT	PCC	PORTLAND CEMENT CONCRETE
CONC	CONCRETE	PCF	POUNDS PER CUBIC FOOT
CONT	CONTINUOUS	PERF	PERFORATED
CRGO	CARGO	PI	POINT OF INTERSECTION
CP	CONTROL POINT	POB	POINT OF BEGINNING
CTB	CEMENT-TREATED BASE	POC	POINT OF CURVE
DB	DIRECT BURIAL	POE	POINT OF ENDING
DEG	DEGREE	PSI	POUNDS PER SQUARE INCH
DG	DECOMPOSED GRANITE	PSF	POUNDS PER SQUARE FOOT
DI	DROP INLET	PT	POINT OF TANGENCY
DIA	DIAMETER	PVC	POINT OF VERTICAL CURVE
DIM	DIMENSION	PVC	POLYVINYL CHLORIDE
DIP	DUCTILE IRON PIPE	PVI	POINT OF VERTICAL INTERSECTION
DP	DEPTH	PVT	POINT OF VERTICAL TANGENCY
(E)	EXISTING	Q	RATE OF FLOW
E	ELECTRICAL LINE	QTY	QUANTITY
EC	END OF CURVE	R	RADIUS
EG	EXISTING GRADE	R&R	REMOVE AND REPLACE
ELEV	ELEVATION	RC	RELATIVE COMPACTION
EOP	EDGE OF PAVEMENT	REL	RELOCATE EXISTING
EVC	END OF VERTICAL CURVE	RCP	REINFORCED CONCRETE PIPE
FAA	FEDERAL AVIATION ADMINISTRATION	REQ	REQUIRED
FBO	FIXED BASE OPERATOR	R/W	RIGHT OF WAY
FF	FINISHED FLOOR	RGL	RUNWAY GUARD LIGHT
FG	FINISHED GRADE	RSA	RUNWAY SAFETY AREA
FH	FIRE HYDRANT	RWA	RESTRICTED WORK AREA
FL	FLOW LINE	RAIL	RUNWAY ALIGNMENT INDICATOR LIGHT
FPS	FEET PER SECOND	REIL	RUNWAY END IDENTIFIER LIGHT
FT	FEET	RWAPP	RUNWAY APPROACH LIGHT
G	NATURAL GAS LINE	RWY	RUNWAY
GAL	GALLON	S	SANITARY LINE, SALVAGED
GALV	GALVANIZED	SF	SQUARE FOOT
GB	GRADE BREAK	SG	STRAIGHT GRADE
GND	GROUND	SH	SHOULDER
GPM	GALLONS PER MINUTE	SIDA	SECURITY IDENTIFICATION DISPLAY AREA
GS	GROUND SHOT	SMGS	SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM
H	HEIGHT	SS	STAINLESS STEEL
HDPE	HIGH DENSITY POLYETHYLENE	SD	STORM DRAIN
HIRL	HIGH INTENSITY RUNWAY LIGHT	STA	STATION
HITL	HIGH INTENSITY THRESHOLD LIGHT	STD	STANDARD
HORIZ	HORIZONTAL	STL	STEEL
HMA	HOT MIX ASPHALT	T	TELEPHONE LINE
HP	HIGH POINT	TC	TOP OF CURB
HW	HEADWALL	TG	TOP OF GRATE
HWL	HIGH WATER LEVEL	T/L	TAXILANE
HWY	HIGHWAY	TOE	TOE OF BANK

TOP	TOP OF BANK
TDZ	TOUCHDOWN ZONE
TWY	TAXIWAY
TOFA	TAXIWAY OBJECT FREE AREA
TSA	TAXIWAY SAFETY AREA
TYP	TYPICAL
UD	UNDERDRAIN
OFA	OBJECT FREE AREA
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VELOCITY
VC	VERTICAL CURVE
VERT	VERTICAL
VG	VALLEY GUTTER
VIF	VERIFY IN FIELD
VASI	VISUAL APPROACH SLOPE INDICATOR
W	WATER LINE
W/	WITH
W/O	WITHOUT
WSE	WATER SURFACE ELEVATION
WSP	WELDED STEEL PIPE
WV	WATER VALVE
WWM	WELDED WIRE MESH

PATTERNS

	CRUSHED AGGREGATE BASE COURSE (SECTION VIEW)
	HOT MIX ASPHALT SURFACE COURSE (PLAN AND SECTION VIEW)
	CONCRETE (PLAN AND SECTION VIEW)
	SOIL-CEMENT BASE COURSE (SECTION VIEW)
	GROUND, EXISTING (SECTION VIEW)
	GROUND, PROPOSED (SECTION VIEW)
	ASPHALT REMOVAL PATTERN
	AC PAVEMENT JOINT
	CONTRACTOR STAGING AND PARKING AREA
	CLAYEY SAND (SOILS BORING PLAN)
	AGGREGATE BASE COURSE (SOILS BORING PLAN)
	SANDY CLAY (SOILS BORING PLAN)
	CLAYEY SILTY SAND (SOILS BORING PLAN)
	ASPHALT CONCRETE (SOILS BORING PLAN)
	SILTY SAND (SOILS BORING PLAN)
	SANDY SILT AND CLAY (SOILS BORING PLAN)
	POORLY-GRADED SAND (SOILS BORING PLAN)

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 Mead and Hunt, Inc.
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SHEET CONTENTS
 LEGEND & ABBREVIATIONS

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G-002

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GENERAL NOTES:

- ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THIS PLAN SHALL BE IN ACCORDANCE WITH FAA TECHNICAL SPECIFICATIONS, FAA GENERAL PROVISIONS AND AS SUPPLEMENTED PER MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) OR THE CITY OF SCOTTSDALE UNLESS SPECIFIED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, SEQUENCING AND SAFETY USED DURING CONSTRUCTION UNLESS SPECIFICALLY ADDRESSED OTHERWISE.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS APPLICABLE TO THE CONSTRUCTION COVERED BY THIS PLAN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE THE WORK COVERED BY THIS PLAN.
- THE QUANTITIES AND SITE CONDITIONS DEPICTED IN THIS PLAN ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL SATISFY THEMSELVES AS TO ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK COVERED BY THIS PLAN.
- A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATION OF EXISTING UNDERGROUND FACILITIES IN THE CONSTRUCTION AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO THE EXISTING FACILITIES CAUSED DURING THEIR CONSTRUCTION OPERATIONS. CONTRACTOR SHALL CONTACT ARIZONA 811 AND AIRPORT OPERATIONS PRIOR TO ANY EXCAVATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION OF THE CONSTRUCTION AFFECTING UTILITIES AND THE COORDINATION OF ANY NECESSARY UTILITY RELOCATION OR MODIFICATIONS.
- THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATION AND CONDITION OF ALL EXISTING SURFACES AT TIE-IN POINTS AND MATCHLINES PRIOR TO COMMENCEMENT OF CONSTRUCTION. SHOULD DIFFERENCES GREATER THAN 1/2" INCH BE FOUND FROM THAT DEPICTED ON THIS PLAN, RESULTING IN THE DESIGN INTENT REFLECTED ON THIS PLAN NOT ABLE TO BE CONSTRUCTED, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT AND/OR CONTINUATION OF CONSTRUCTION.
- DISPOSAL OF EXCAVATED OR WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL ASSUME ALL EXCESS MATERIAL WILL BE REQUIRED TO BE HAULED AND DISPOSED OFF AIRPORT PROPERTY. ALL COSTS ASSOCIATED WITH OFF HAUL (INCLUDING ANY ENVIRONMENTAL TESTING) SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADING AND TRAFFIC CONTROL REQUIRED TO MAINTAIN SAFE AND SECURE ACCESS AT THE PROJECT SITE. CONTRACTOR'S ACCESS AND TRAFFIC CONTROL PLAN WILL BE IN ACCORDANCE WITH THE CONSTRUCTION SAFETY AND PHASING PLAN.
- THE CONTRACTOR SHALL PROTECT ALL AIRFIELD SIGNAGE, LIGHTING, FENCING, AND SECURITY EQUIPMENT WITHIN THE PROJECT LIMITS. DAMAGE TO EXISTING ELECTRICAL EQUIPMENT AND SIGNAGE SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL MAKE REQUESTS FOR FACILITY CLOSURES A MINIMUM OF 48 HOURS IN ADVANCE OF SUCH CLOSURES. THE AIRPORT WILL HAVE THE FINAL APPROVAL AUTHORITY OF SUCH CLOSURES. THE AIRPORT RETAINS THE RIGHT TO CANCEL ANY SUCH CLOSURES IN THE INTEREST OF AIRPORT SAFETY AND/OR CRITICAL OPERATIONS.
- ACCESS TO ALL FIRE HYDRANTS AND PIPESTANDS SHALL BE MAINTAINED AT ALL TIMES.
- DUMP TRUCKS SHALL USE LOAD COVERS AND SHALL BE LOADED BY THE CONTRACTOR SUCH THAT NO SPILLAGE OCCURS DURING TRANSIT ON STATE, MUNICIPAL, OR AIRPORT ROADWAYS. PRIOR TO BEING ALLOWED ON ANY AIRFIELD PAVEMENT OR ROADWAYS, WHEELS OF TRUCKS SHALL BE CLEANED AND INSPECTED, CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF THE IMMEDIATE CLEANING OF MATERIAL TRACKING AND SPILLS ON THE PAVED SURFACES RESULTING FROM THE CONTRACTORS OPERATIONS.
- THE LOCATION OF HAUL ROUTES ON THE AIRPORT SHALL BE AS SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE OFF-SITE HAUL ROUTES WITH THE PARTY HAVING JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE HAUL ROUTES WILL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF WORK. OR AS DEEMED NECESSARY BY THE AIRPORT OR ENGINEER. FENCING, 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 THE WORK.
- CONCRETE, RUBBLE, ASPHALT MILLINGS, AGGREGATE BASE, SOILS AND OTHER EXCESS EXCAVATION NOT USED IN THE WORK SHALL BE DISPOSED OFF AIRPORT PROPERTY ACCORDING TO THE LOCAL LAWS AND REGULATIONS. NO MATERIAL SHALL BE WASTED OR STOCKPILED ON THE AIRPORT UNLESS APPROVED BY THE AIRPORT OR ENGINEER.
- THE CONTRACTOR SHALL NOT ENTER ONTO ANY AREA OUTSIDE OF THE CONSTRUCTION LIMITS, STAGING AREA, OR DESIGNATED HAUL ROUTES WITHOUT THE WRITTEN APPROVAL OF THE AIRPORT.
- ALL CONSTRUCTION VEHICLE ACTIVITY IN THE AIRPORT OPERATION AREA (AOA) SHALL BE CONTROLLED BY THE CONTRACTOR IN ACCORDANCE WITH THE APPROVED CONSTRUCTION SAFETY & PHASING PLAN. SPECIAL RESTRICTIONS APPLY IN AREAS WITHIN THE RUNWAY AND TAXIWAY SAFETY AREAS AND TAXIWAY OBJECT FREE AREAS. NO WORK SHALL PROCEED WITHOUT THE APPROVAL OF THE AIRPORT. ALL WORK CREWS SHALL BE ACCOMPANIED BY AN AIRPORT OPERATIONS STAFF EQUIPPED WITH A RADIO CAPABLE OF MONITORING APPROPRIATE AIRPORT FREQUENCIES IF LOCATED INSIDE THE RUNWAY AND TAXIWAY SAFETY AREAS.
- CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL YIELD TO AIRCRAFT TRAFFIC AT ALL TIMES.

- ACTIVITIES PERFORMED BY THE CONTRACTOR REQUIRING THE USE OF CONSTRUCTION EQUIPMENT WITH A HEIGHT GREATER THAN 15 FEET SHALL BE COORDINATED WITH THE AIRPORT. LOCATION AND HEIGHTS OF STOCKPILED MATERIAL TO BE USED IN THE CONSTRUCTION SHALL BE APPROVED IN ADVANCE BY THE ENGINEER WITH THE DESIGNATED WORK AREAS. AN FAA 7460-1 FORM WILL BE REQUIRED TO BE FILED WITH THE FAA, AND SHALL BE FILED A MINIMUM OF 45 DAYS PRIOR TO USE OF THE PROPOSED EQUIPMENT.
- ALL CONSTRUCTION VEHICLES AND EQUIPMENT OPERATING IN THE AIRPORT OPERATIONS AREA DURING DAYLIGHT HOURS MUST BE PROVIDED WITH A FLAG ATTACHED TO THE VEHICLE SO THAT THE FLAG WILL BE READILY VISIBLE. THE FLAG SHALL BE THREE FEET SQUARE CONSISTING OF AVIATION ORANGE AND WHITE SQUARED ON EACH SIDE. ALL CONSTRUCTION VEHICLES AND EQUIPMENT OPERATING ON AIRPORT PROPERTY AT NIGHT MUST BE PROVIDED WITH A 360° ROTATING/FLASHING AMBER BEACON ATTACHED TO THE VEHICLE SO THAT THE LIGHTS WILL BE READILY VISIBLE. A BEACON MAY BE USED DURING DAYLIGHT HOURS IN LIEU OF A FLAG.
- THE CONTRACTOR SHALL DESIGNATE A PERSON AND TWO BACKUP PEOPLE WHO CAN BE CONTACTED 24 HOURS A DAY IN THE EVENT OF AN EMERGENCY. THESE PEOPLE SHALL BE AUTHORIZED TO MAKE FIELD DECISIONS ON THE COMPANY'S BEHALF AND BE ABLE TO RESPOND WITHIN TWO HOURS OF INITIAL CONTACT.
- ACCESS FOR AIRPORT RESCUE AND FIRE FIGHTING (ARFF) OR LOCAL RESCUE AND FIRE FIGHTING EQUIPMENT AND PERSONNEL SHALL BE MAINTAINED AT ALL TIMES. THE ARFF OR LOCAL OPERATIONS SHALL HAVE RIGHT-OF-WAY OVER ALL CONTRACTOR'S OPERATIONS AT ALL TIMES.
- ALL WORK SHALL BE PERFORMED PER THE PROJECT PLANS AND SPECIFICATIONS AND SHALL BE COORDINATED WITH SCOTTSDALE AIRPORT OPERATIONS STAFF.

QUANTITY TABLE:

ITEM DESCRIPTION	UNIT	QUANTITY	AS-BUILT
AIRFIELD SAFETY AND TRAFFIC CONTROL	LS	1	
MOBILIZATION	LS	1	
CONTRACTOR QUALITY CONTROL PROGRAM	LS	1	
CONSTRUCTION STAKING AND LAYOUT	LS	1	
PAVEMENT REMOVE, COLD MILLING, FULL DEPTH	SY	35,840	
MISCELLANEOUS CONCRETE & STRUCTURES REMOVAL	LS	1	
PAVEMENT JOIN	LF	1,950	
PARTIAL PULLBOX REMOVAL	EA	1	
CONCRETE TIE DOWN ANCHOR REMOVAL	EA	215	
FIRE HYDRANT VAULT REMOVALS & WATER LINE MODIFICATIONS	LS	1	
REMOVE & REPLACE SLURRY/CONCRETE CAP	LF	850	
PAVEMENT MARKING REMOVAL, 100%	SF	450	
HAUL ROUTE PAVEMENT REPAIR	LS	1	
CONCRETE TIE DOWN ANCHOR	EA	132	
UNCLASSIFIED EXCAVATION	SY	35,910	
TEMPORARY EROSION AND POLLUTION CONTROL	LS	1	
CRUSHED AGGREGATE BASE COURSE, P-209	CY	5,990	
SOIL-CEMENT BASE COURSE, 12-INCH DEPTH	SY	35,690	
PORTLAND CEMENT	CWT	19,280	
HOT MIX ASPHALT SURFACE COURSE, P-401	TON	8,680	
PAVEMENT MARKING, YELLOW WITH REFLECTIVE MEDIA	SF	6,000	
PAVEMENT MARKING, WHITE WITH REFLECTIVE MEDIA	SF	90	
PAVEMENT MARKING, BLACK	SF	210	
INSTALL PULLBOX FRAME, COVER & PARTIAL BASE, 100,000 LB DUAL WHEEL AIRCRAFT RATED, SPRING ASSIST COVER	EA	1	

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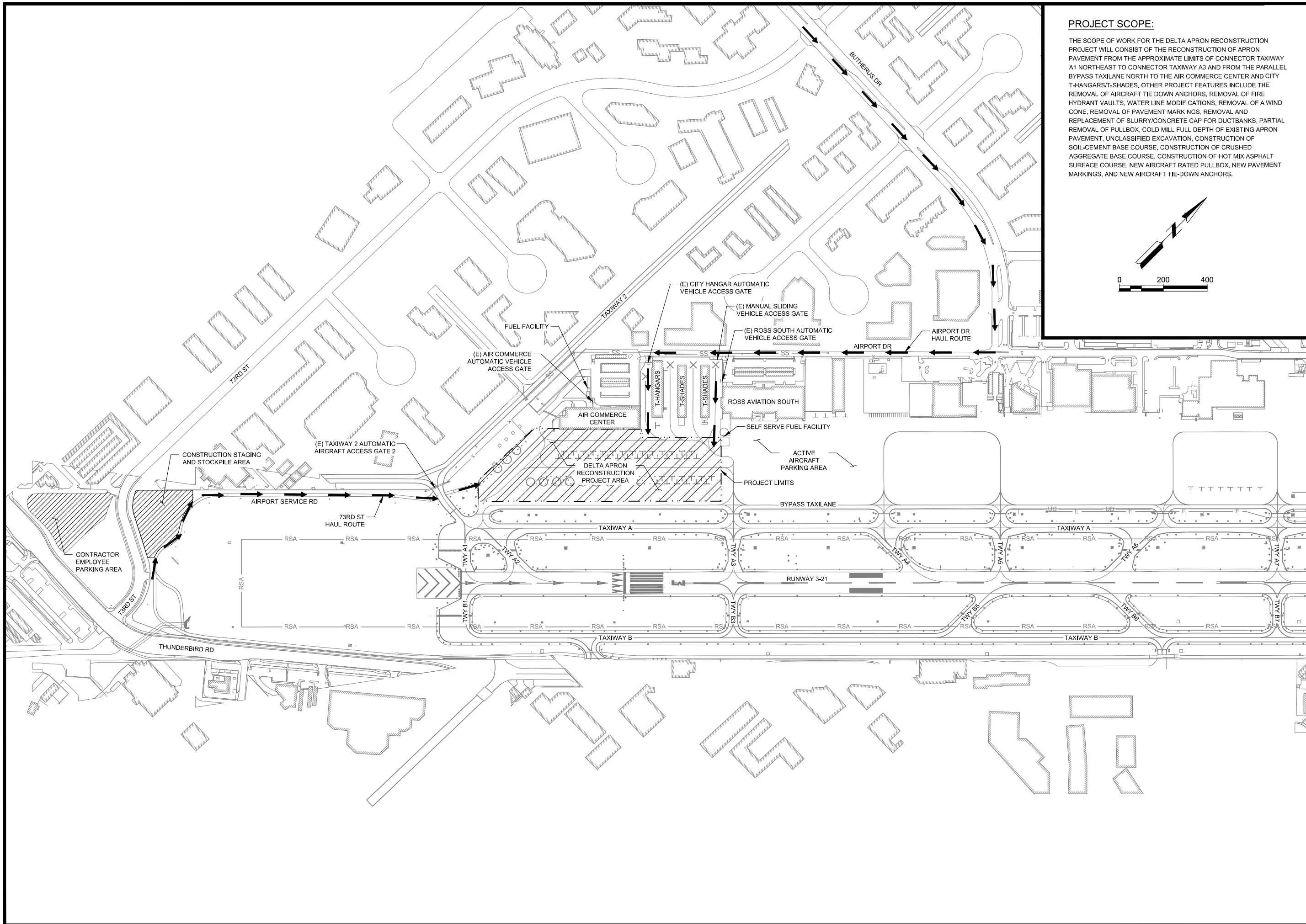
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SHEET CONTENTS
GENERAL NOTES

SHEET NO. 3 of 36

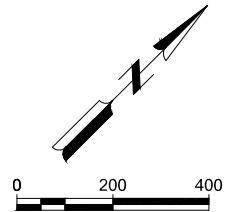
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PROJECT SCOPE:

THE SCOPE OF WORK FOR THE DELTA APRON RECONSTRUCTION PROJECT WILL CONSIST OF THE RECONSTRUCTION OF APRON PAVEMENT FROM THE APPROXIMATE LIMITS OF CONNECTOR TAXIWAY A1 NORTHEAST TO CONNECTOR TAXIWAY A3 AND FROM THE PARALLEL BYPASS TAXILANE NORTH TO THE AIR COMMERCE CENTER AND CITY T-HANGARS/T-SHADES. OTHER PROJECT FEATURES INCLUDE THE REMOVAL OF AIRCRAFT TIE DOWN ANCHORS, REMOVAL OF FIRE HYDRANT VAULTS, WATER LINE MODIFICATIONS, REMOVAL OF A WIND CONE, REMOVAL OF PAVEMENT MARKINGS, REMOVAL AND REPLACEMENT OF SLURRY/CONCRETE CAP FOR DUCTBANKS, PARTIAL REMOVAL OF PULLBOX, COLD MILL FULL DEPTH OF EXISTING APRON PAVEMENT, UNCLASSIFIED EXCAVATION, CONSTRUCTION OF SOIL-CEMENT BASE COURSE, CONSTRUCTION OF CRUSHED AGGREGATE BASE COURSE, CONSTRUCTION OF HOT MIX ASPHALT SURFACE COURSE, NEW AIRCRAFT RATED PULLBOX, NEW PAVEMENT MARKINGS, AND NEW AIRCRAFT TIE-DOWN ANCHORS.



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**SCOTTSDALE AIRPORT
 DELTA APRON RECONSTRUCTION**
 15255 N. AIRPORT DRIVE
 SCOTTSDALE, AZ 85260

ISSUED

BID SET	
AP NO.:	3-04-0032-036-2018
MH NO.:	2886300-172363.01
DATE:	MARCH 19, 2018
DESIGNED BY:	DPS
DRAWN BY:	BJM
CHECKED BY:	SVG

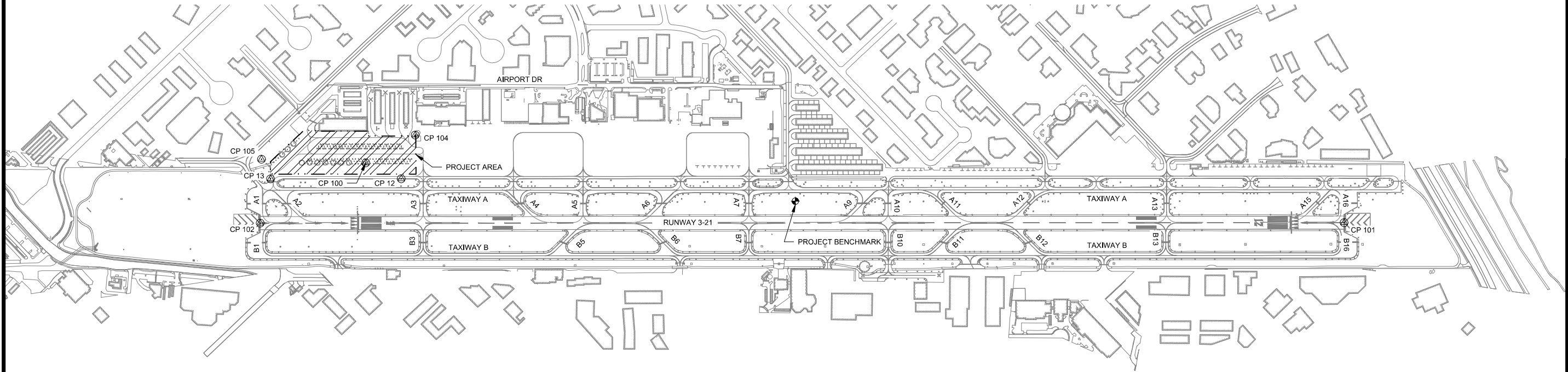
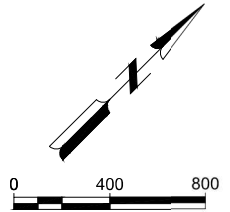
SHEET CONTENTS
 PROJECT LAYOUT
 PLAN

SHEET NO. 4 of 36
G-021

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BASIS OF SURVEY:

SURVEY WAS PERFORMED BY TRACE CONSULTING, LLC IN DECEMBER 2017.

DATUM:
DATUM DEPICTED IS SCOTTSDALE AIRPORT. CONTRACTOR TO VERIFY LOCAL SURVEY CONTROL POINTS AND PROJECT BENCHMARK PRIOR TO START OF CONSTRUCTION.

PROJECT BENCHMARK USED:
NGS BC SDL D (PAC)
NORTHING: 954234.205
EASTING: 701710.22
ELEVATION: 1470.01

PRIMARY HORIZONTAL CONTROL:
NORTH END THRESHOLD MONUMENT (PK NAIL)
NORTHING: 957123.510
EASTING: 704729.520

SOUTH END THRESHOLD MONUMENT (PK NAIL)
NORTHING: 951188.460
EASTING: 699000.650

CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
12	952194.962	699503.097	1449.40	SET PK
13	951479.004	698812.639	1442.61	SET PK
100	952085.345	699228.717	1448.21	SET MAG NAIL
101	957123.510	704729.520	1510.35	NORTH END THRESHOLD MONUMENT (PK NAIL)
102	951188.460	699000.650	1444.31	SOUTH END THRESHOLD MONUMENT (PK NAIL)
103	954234.205	701710.220	1470.01	NGS BC SDL D (PAC)
104	952503.030	699337.784	1452.08	SET MAG NAIL
105	951534.018	698657.277	1443.70	SET NAIL

SCOTTSDALE AIRPORT
DELTA APRON RECONSTRUCTION

15255 N. AIRPORT DRIVE
SCOTTSDALE, AZ 85260

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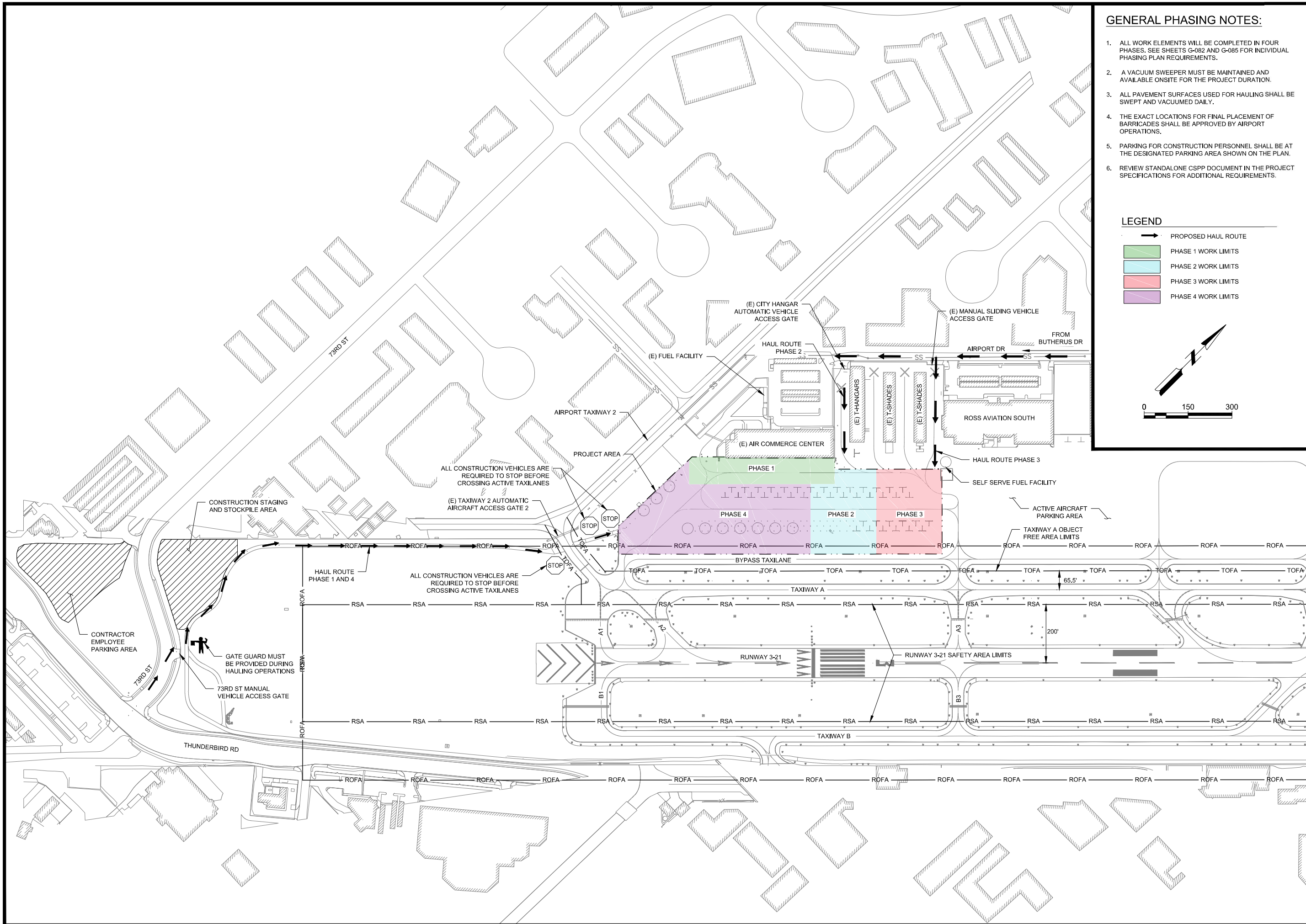
BID SET

AP NO.: 3-04-0032-036-2018
MH NO.: 2886300-172363.01
DATE: MARCH 19, 2018
DESIGNED BY: DPS
DRAWN BY: BJM
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SHEET CONTENTS
SURVEY CONTROL
PLAN

SHEET NO. 5 of 36

G-041

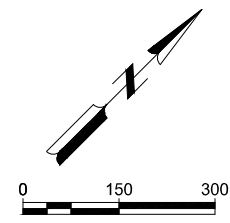


GENERAL PHASING NOTES:

1. ALL WORK ELEMENTS WILL BE COMPLETED IN FOUR PHASES. SEE SHEETS G-082 AND G-085 FOR INDIVIDUAL PHASING PLAN REQUIREMENTS.
2. A VACUUM SWEEPER MUST BE MAINTAINED AND AVAILABLE ONSITE FOR THE PROJECT DURATION.
3. ALL PAVEMENT SURFACES USED FOR HAULING SHALL BE SWEEPED AND VACUUMED DAILY.
4. THE EXACT LOCATIONS FOR FINAL PLACEMENT OF BARRICADES SHALL BE APPROVED BY AIRPORT OPERATIONS.
5. PARKING FOR CONSTRUCTION PERSONNEL SHALL BE AT THE DESIGNATED PARKING AREA SHOWN ON THE PLAN.
6. REVIEW STANDALONE CSPP DOCUMENT IN THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

LEGEND

- PROPOSED HAUL ROUTE
- PHASE 1 WORK LIMITS
- PHASE 2 WORK LIMITS
- PHASE 3 WORK LIMITS
- PHASE 4 WORK LIMITS



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**SCOTTSDALE AIRPORT
 DELTA APRON RECONSTRUCTION**

15255 N. AIRPORT DRIVE
 SCOTTSDALE, AZ 85260

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SHEET CONTENTS
**CONSTRUCTION
 SAFETY & PHASING
 PLAN - OVERVIEW**

SHEET NO. 6 of 36
G-081

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15255 N. AIRPORT DRIVE
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SHEET CONTENTS
CONSTRUCTION SAFETY & PHASING PLAN - PHASE 1

SHEET NO. 7 of 36

G-082

PHASE 1 NOTES:

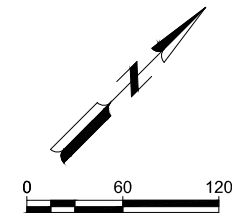
- DESCRIPTION:**
- CONSTRUCT TEMPORARY HOT MIX ASPHALT PAVEMENT
 - PAINT TEMPORARY TAXILANE CENTERLINE MARKING
 - INSTALL TEMPORARY FENCING
 - INSTALL LOW-PROFILE BARRICADES, PORTABLE TRAFFIC DELINEATORS, AND INLET PROTECTION
 - COLD MILL ASPHALT CONCRETE PAVEMENT FULL DEPTH AND OFF-HAUL PULVERIZED MATERIAL
 - PERFORM UNCLASSIFIED EXCAVATION AND GRADING
 - REPLACE SLURRY CAP FOR EXISTING DUCTBANKS
 - CONSTRUCT SOIL-CEMENT BASE COURSE
 - CONSTRUCT CRUSHED AGGREGATE BASE COURSE
 - PAVE HOT MIX ASPHALT SURFACE COURSE
 - PAINT NEW PAVEMENT MARKINGS

- PROJECT DURATION**
- THIRTY-FIVE (35) CALENDAR DAYS

- IMPACTS TO AIRFIELD OPERATIONS**
- AIR COMMERCE CENTER TENANTS WILL BE TEMPORARILY RELOCATED DURING CONSTRUCTION OF PHASE 1.
 - TIE DOWN AND HELICOPTER PARKING SPOTS CLOSED AS SHOWN.

LEGEND

- PROPOSED HAUL ROUTE
- XXXXXXX LOW PROFILE BARRICADES
- PORTABLE TRAFFIC DELINEATORS (AIRPORT PROVIDED)
- X PARKING SPOT CLOSED
- PHASE 1 WORK AREA

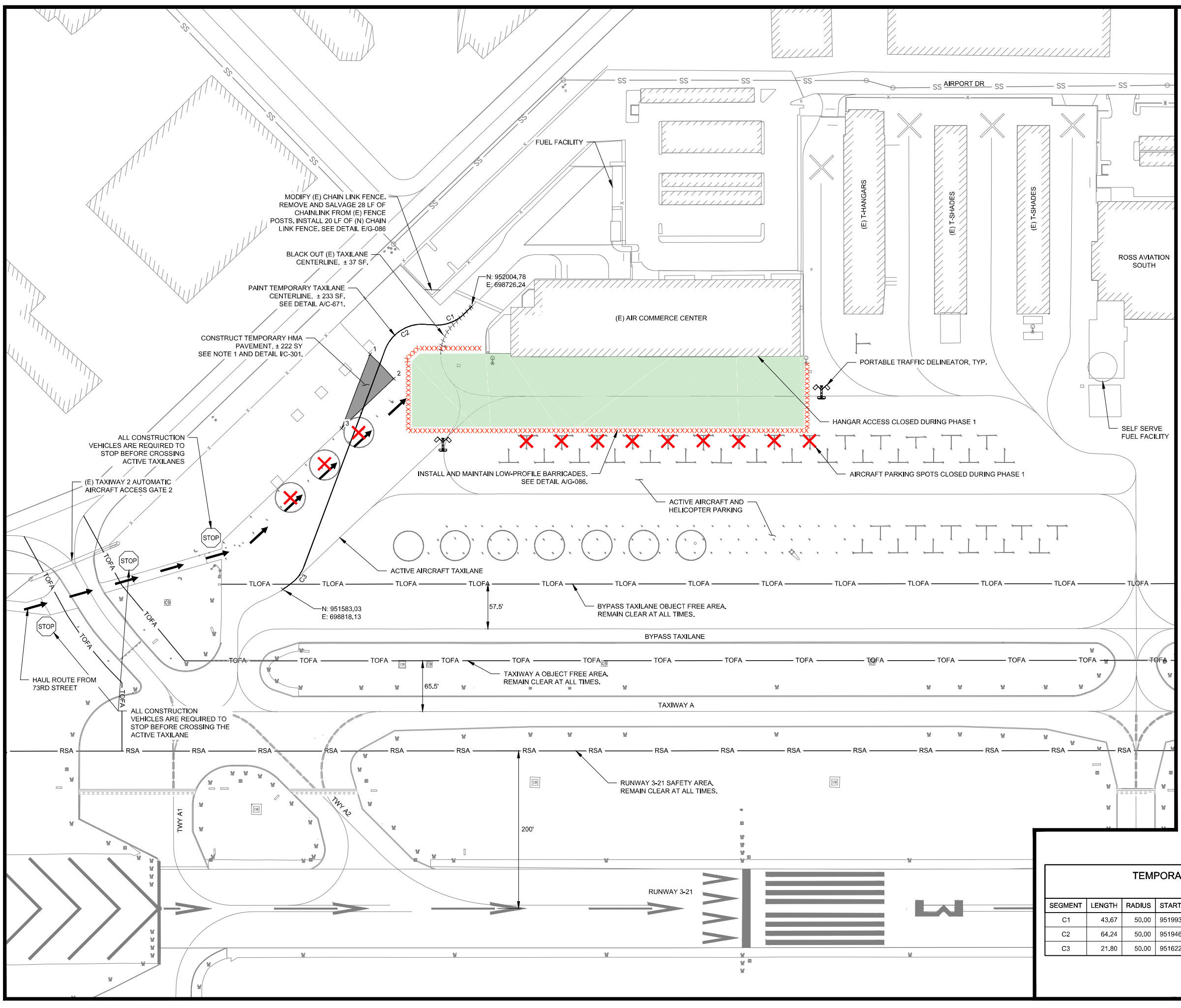


TEMPORARY HMA POINT TABLE

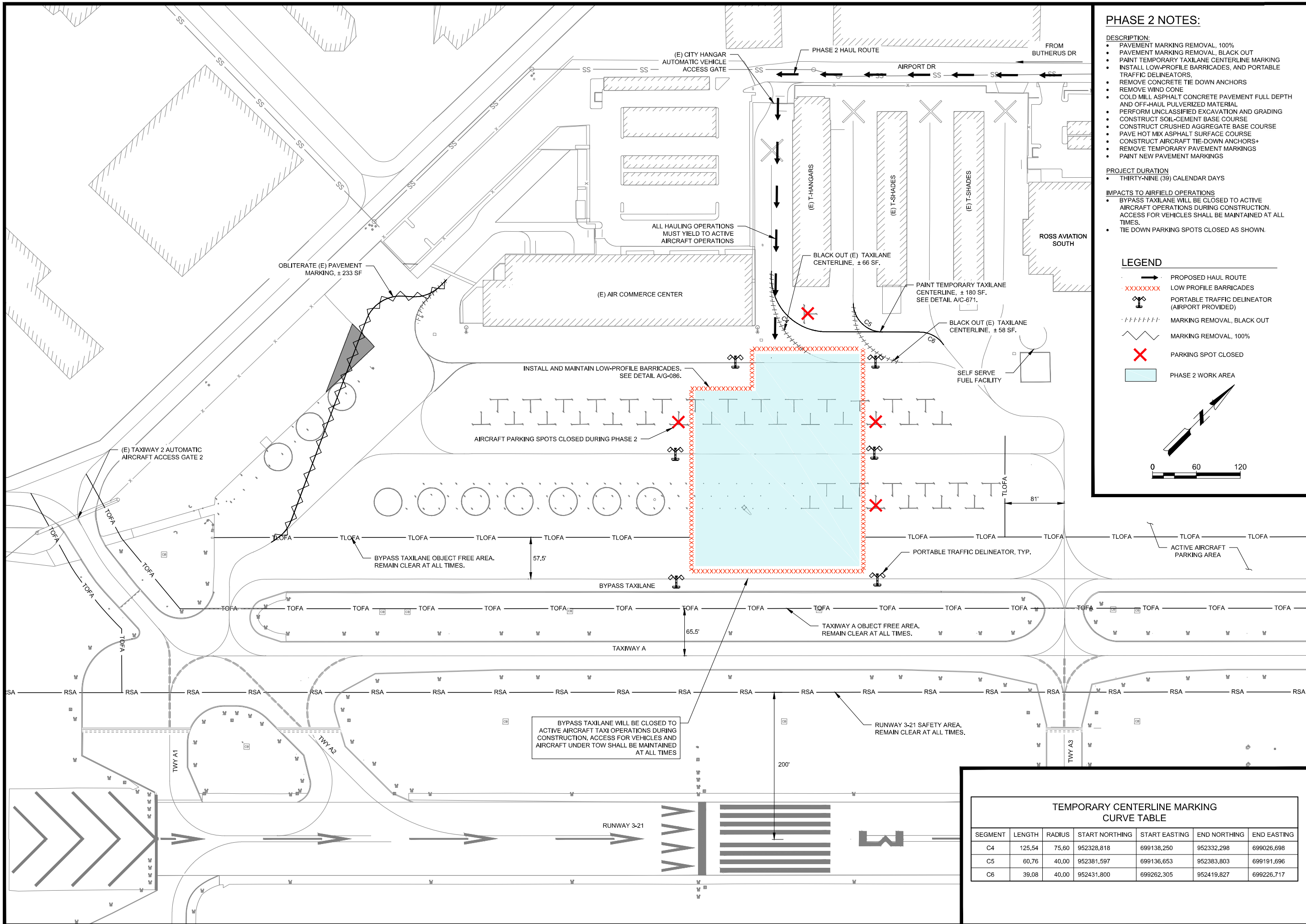
POINT	NORTHING	EASTING
1	951870.221	698680.332
2	951870.229	698723.418
3	951778.858	698722.777

TEMPORARY CENTERLINE MARKING CURVE TABLE

SEGMENT	LENGTH	RADIUS	START NORTHING	START EASTING	END NORTHING	END EASTING
C1	43.67	50.00	951993.213	698726.398	951954.324	698709.765
C2	64.24	50.00	951946.731	698701.278	951887.993	698669.465
C3	21.80	50.00	951622.766	698815.611	951601.685	698820.456



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PHASE 2 NOTES:

- DESCRIPTION:**
- PAVEMENT MARKING REMOVAL, 100%
 - PAVEMENT MARKING REMOVAL, BLACK OUT
 - PAINT TEMPORARY TAXILANE CENTERLINE MARKING
 - INSTALL LOW-PROFILE BARRICADES, AND PORTABLE TRAFFIC DELINEATORS.
 - REMOVE CONCRETE TIE DOWN ANCHORS
 - REMOVE WIND CONE
 - COLD MILL ASPHALT CONCRETE PAVEMENT FULL DEPTH AND OFF-HAUL PULVERIZED MATERIAL
 - PERFORM UNCLASSIFIED EXCAVATION AND GRADING
 - CONSTRUCT SOIL-CEMENT BASE COURSE
 - CONSTRUCT CRUSHED AGGREGATE BASE COURSE
 - PAVE HOT MIX ASPHALT SURFACE COURSE
 - CONSTRUCT AIRCRAFT TIE-DOWN ANCHORS+
 - REMOVE TEMPORARY PAVEMENT MARKINGS
 - PAINT NEW PAVEMENT MARKINGS

PROJECT DURATION

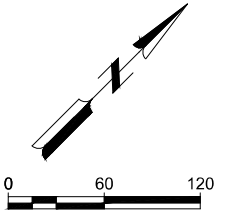
- THIRTY-NINE (39) CALENDAR DAYS

IMPACTS TO AIRFIELD OPERATIONS

- BYPASS TAXILANE WILL BE CLOSED TO ACTIVE AIRCRAFT OPERATIONS DURING CONSTRUCTION. ACCESS FOR VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
- TIE DOWN PARKING SPOTS CLOSED AS SHOWN.

LEGEND

- PROPOSED HAUL ROUTE
- XXXXXXX LOW PROFILE BARRICADES
- PORTABLE TRAFFIC DELINEATOR (AIRPORT PROVIDED)
- MARKING REMOVAL, BLACK OUT
- MARKING REMOVAL, 100%
- PARKING SPOT CLOSED
- PHASE 2 WORK AREA



TEMPORARY CENTERLINE MARKING CURVE TABLE

SEGMENT	LENGTH	RADIUS	START NORTHING	START EASTING	END NORTHING	END EASTING
C4	125.54	75.60	952328.818	699138.250	952332.298	699026.698
C5	60.76	40.00	952381.597	699136.653	952383.803	699191.696
C6	39.08	40.00	952431.800	699262.305	952419.827	699226.717

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**SCOTTSDALE AIRPORT
 DELTA APRON RECONSTRUCTION**

15255 N. AIRPORT DRIVE
 SCOTTSDALE, AZ 85260

ISSUED

BID SET

AP NO.: 3-04-0032-036-2018
 MH NO.: 2886300-172363.01
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SHEET CONTENTS

CONSTRUCTION SAFETY & PHASING PLAN - PHASE 2

SHEET NO. 8 of 36

G-083

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SCOTTSDALE AIRPORT DELTA APRON RECONSTRUCTION

15255 N. AIRPORT DRIVE
SCOTTSDALE, AZ 85260

ISSUED

BID SET

AP NO.: 3-04-0032-036-2018
MH NO.: 2886300-172363.01
DATE: MARCH 19, 2018
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SHEET CONTENTS

CONSTRUCTION SAFETY & PHASING PLAN - PHASE 3

SHEET NO. 9 of 36

G-084

PHASE 3 NOTES:

DESCRIPTION:

- INSTALL LOW-PROFILE BARRICADES AND PORTABLE AND TRAFFIC DELINEATORS
- PAVEMENT MARKING REMOVAL, 100%
- PAVEMENT MARKING REMOVAL, BLACK OUT
- PAINT TEMPORARY TAXILANE CENTERLINE
- REMOVE CONCRETE TIE DOWN ANCHORS
- COLD MILL ASPHALT CONCRETE PAVEMENT FULL DEPTH AND OFF-HAUL PULVERIZED MATERIAL
- PERFORM UNCLASSIFIED EXCAVATION AND GRADING
- REPLACE CONCRETE CAP FOR EXISTING FIBER OPTIC DUCTBANK
- CONSTRUCT SOIL-CEMENT BASE COURSE
- CONSTRUCT CRUSHED AGGREGATE BASE COURSE
- PAVE HOT MIX ASPHALT SURFACE COURSE
- CONSTRUCT AIRCRAFT TIE-DOWN ANCHORS
- REMOVE TEMPORARY PAVEMENT MARKINGS
- PAINT PAVEMENT MARKINGS

PROJECT DURATION

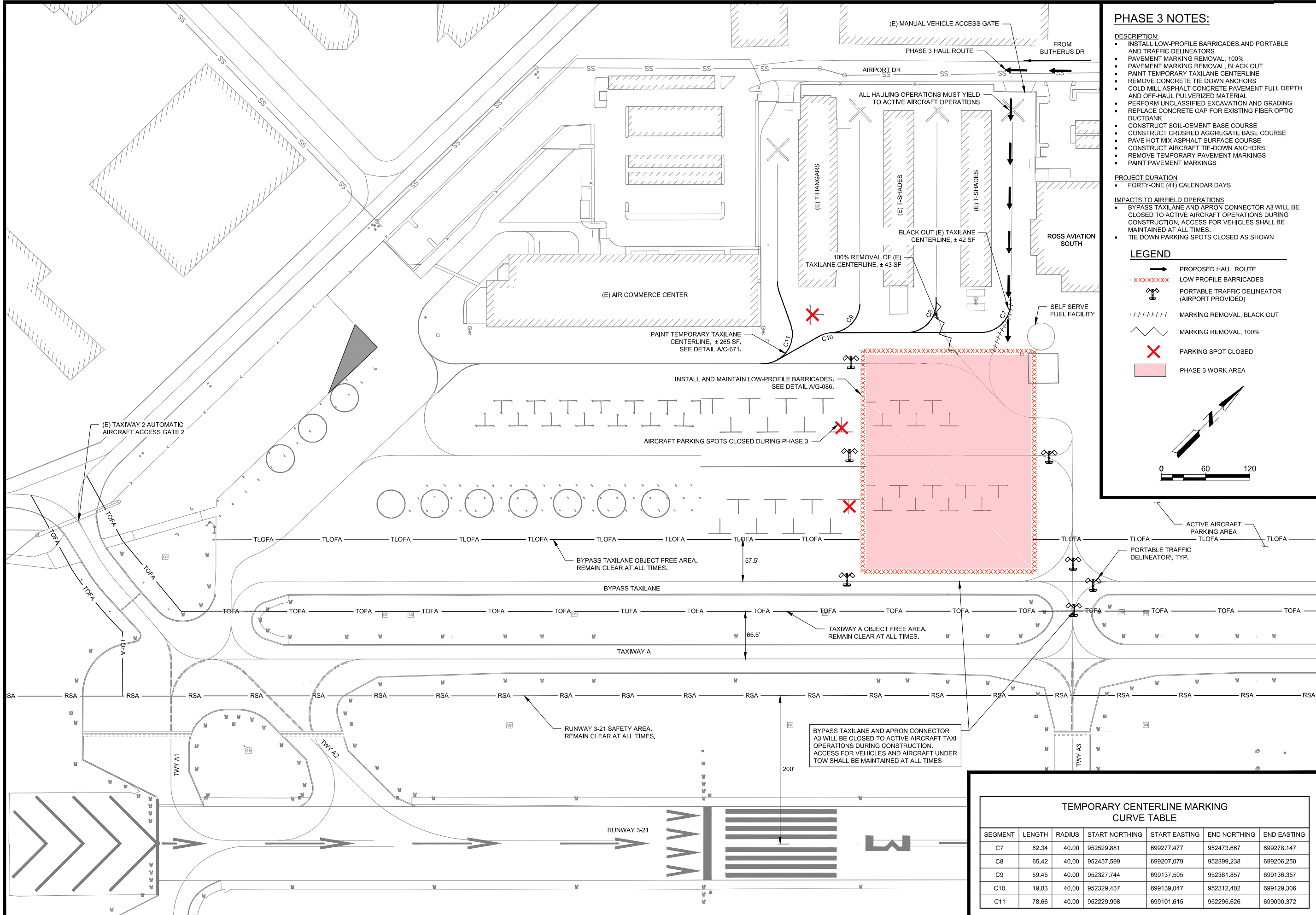
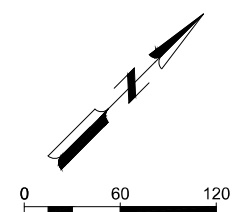
- FORTY-ONE (41) CALENDAR DAYS

IMPACTS TO AIRFIELD OPERATIONS

- BYPASS TAXILANE AND APRON CONNECTOR A3 WILL BE CLOSED TO ACTIVE AIRCRAFT OPERATIONS DURING CONSTRUCTION. ACCESS FOR VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
- TIE DOWN PARKING SPOTS CLOSED AS SHOWN

LEGEND

- PROPOSED HAUL ROUTE
- XXXXXX LOW PROFILE BARRICADES
- PORTABLE TRAFFIC DELINEATOR (AIRPORT PROVIDED)
- MARKING REMOVAL, BLACK OUT
- ~~~~~ MARKING REMOVAL, 100%
- X PARKING SPOT CLOSED
- PHASE 3 WORK AREA



SEGMENT	LENGTH	RADIUS	START NORTHING	START EASTING	END NORTHING	END EASTING
C7	62.34	40.00	952629.881	699277.477	952473.667	699278.147
C8	65.42	40.00	952457.599	699207.079	952399.238	699206.250
C9	59.45	40.00	952327.744	699137.505	952381.857	699136.357
C10	19.83	40.00	952329.437	699139.047	952312.402	699129.306
C11	78.66	40.00	952229.998	699101.615	952295.626	699090.372



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PHASE 4 NOTES:

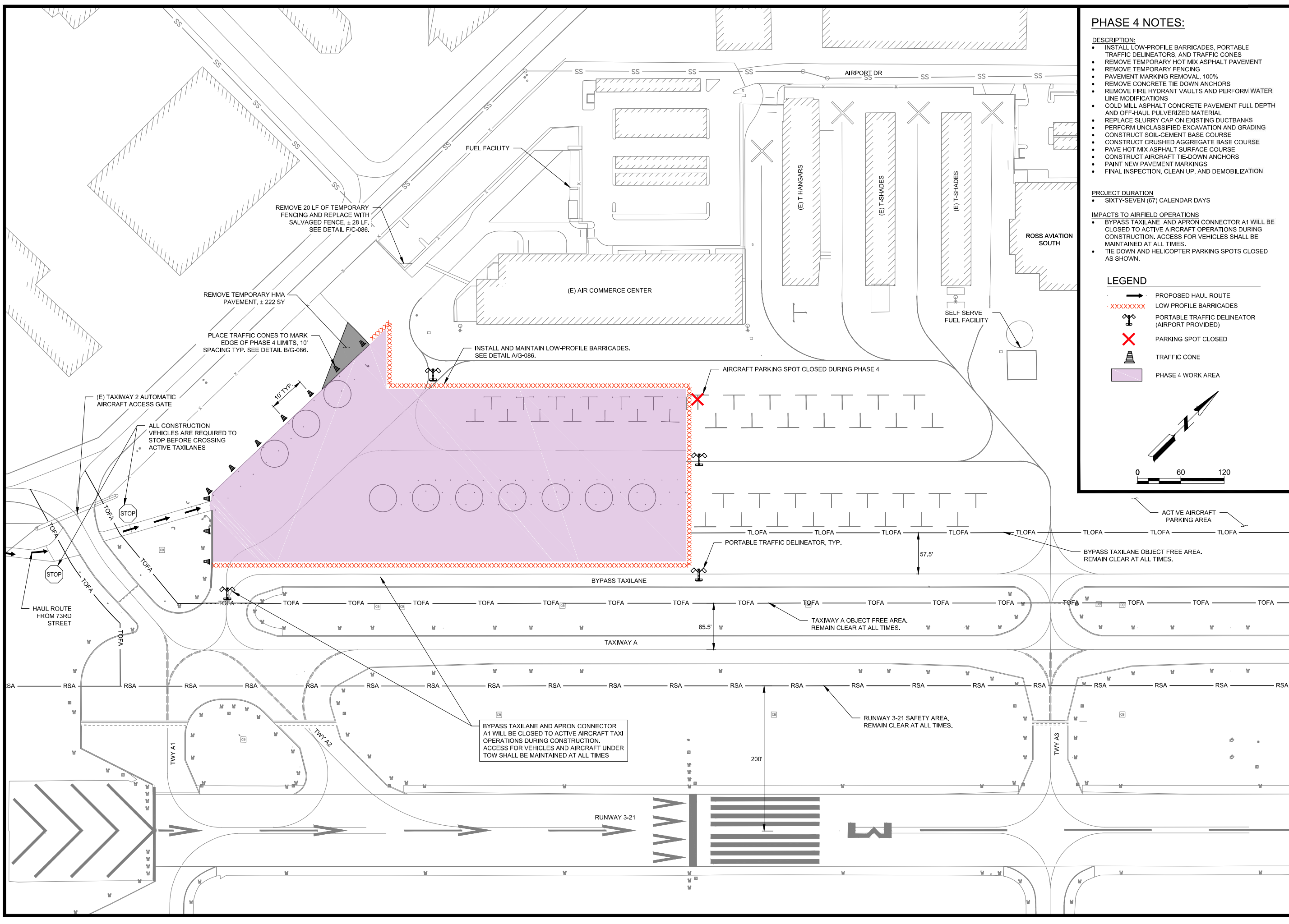
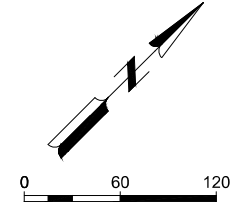
- DESCRIPTION:**
- INSTALL LOW-PROFILE BARRICADES, PORTABLE TRAFFIC DELINEATORS, AND TRAFFIC CONES
 - REMOVE TEMPORARY HOT MIX ASPHALT PAVEMENT
 - REMOVE TEMPORARY FENCING
 - PAVEMENT MARKING REMOVAL, 100%
 - REMOVE CONCRETE TIE DOWN ANCHORS
 - REMOVE FIRE HYDRANT VAULTS AND PERFORM WATER LINE MODIFICATIONS
 - COLD MILL ASPHALT CONCRETE PAVEMENT FULL DEPTH AND OFF-HAUL PULVERIZED MATERIAL
 - REPLACE SLURRY CAP ON EXISTING DUCTBANKS
 - PERFORM UNCLASSIFIED EXCAVATION AND GRADING
 - CONSTRUCT SOIL-CEMENT BASE COURSE
 - CONSTRUCT CRUSHED AGGREGATE BASE COURSE
 - PAVE HOT MIX ASPHALT SURFACE COURSE
 - CONSTRUCT AIRCRAFT TIE-DOWN ANCHORS
 - PAINT NEW PAVEMENT MARKINGS
 - FINAL INSPECTION, CLEAN UP, AND DEMOBILIZATION

- PROJECT DURATION**
- SIXTY-SEVEN (67) CALENDAR DAYS

- IMPACTS TO AIRFIELD OPERATIONS**
- BYPASS TAXILANE AND APRON CONNECTOR A1 WILL BE CLOSED TO ACTIVE AIRCRAFT OPERATIONS DURING CONSTRUCTION. ACCESS FOR VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
 - TIE DOWN AND HELICOPTER PARKING SPOTS CLOSED AS SHOWN.

LEGEND

- PROPOSED HAUL ROUTE
- LOW PROFILE BARRICADES
- PORTABLE TRAFFIC DELINEATOR (AIRPORT PROVIDED)
- PARKING SPOT CLOSED
- TRAFFIC CONE
- PHASE 4 WORK AREA



**SCOTTSDALE AIRPORT
DELTA APRON RECONSTRUCTION**

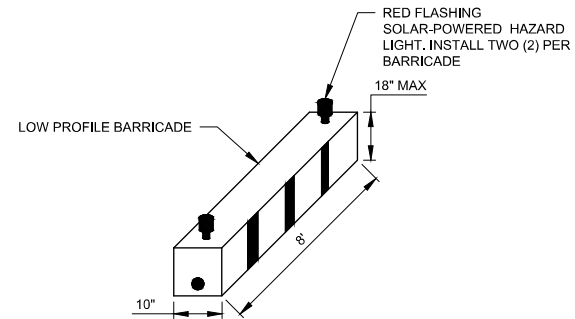
15255 N. AIRPORT DRIVE
SCOTTSDALE, AZ 85260

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SHEET CONTENTS

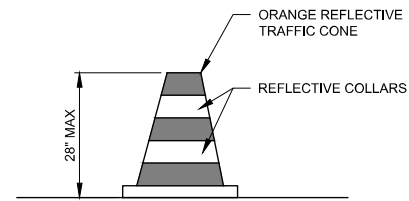
CONSTRUCTION SAFETY & PHASING PLAN - PHASE 4



LOW PROFILE BARRICADE NOTES:

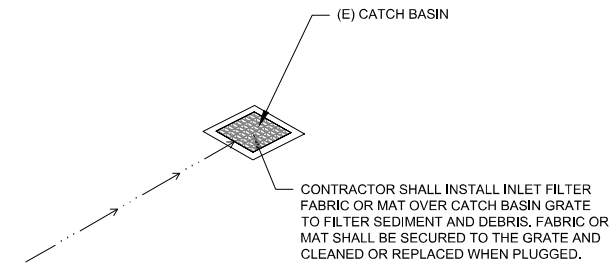
1. BARRICADES SHALL BE SAFETY ORANGE IN COLOR WITH ORANGE AND WHITE REFLECTIVE STRIPING ON BOTH SIDES.
2. BARRICADES SHALL BE HIGH IMPACT, UV-RESISTANT, HIGH DENSITY POLYETHYLENE.
3. BARRICADES SHALL BE CONTINUOUSLY LINKED AND PLACED WHERE INDICATED ON THE CONSTRUCTION SAFETY AND PHASING PLAN AND AS DIRECTED BY AIRPORT OPERATIONS AND THE ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, PLACING, MOVING, LIGHTING, FILLING WITH WATER AND MAINTAINING THE BARRICADES DURING CONSTRUCTION OF THE ENTIRE PROJECT.

A LOW PROFILE BARRICADE
NO SCALE

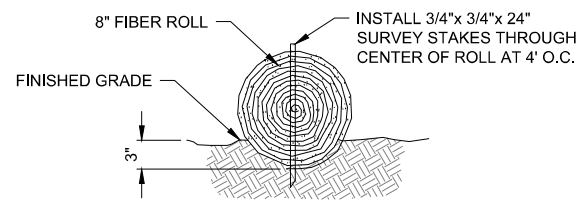


NOTE:
1. CONTRACTOR SHALL PROVIDE AND PLACE TRAFFIC CONES AS SHOWN ON THE PLANS AND/OR AS DIRECTED BY AIRPORT OPERATIONS AND THE ENGINEER.

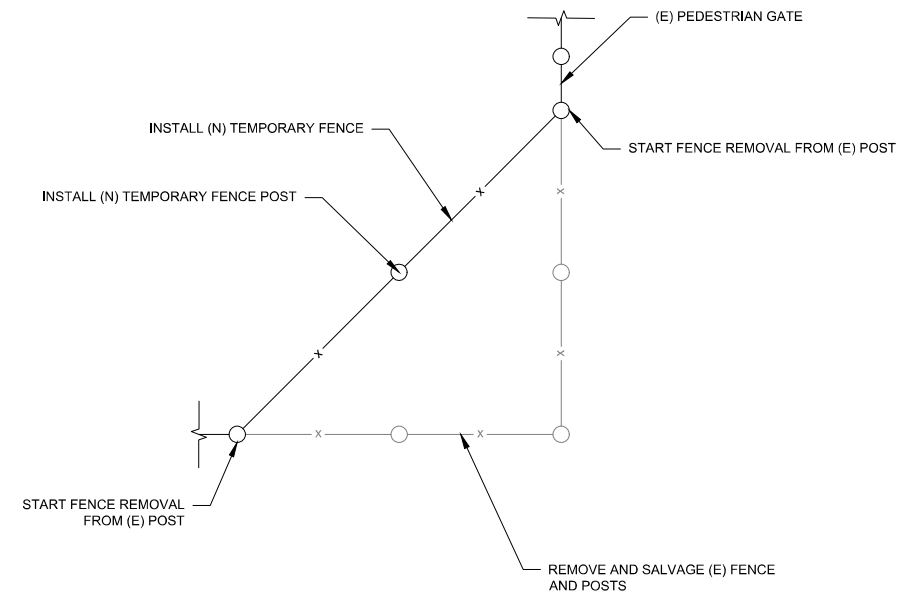
B TRAFFIC CONE
NO SCALE



C INLET PROTECTION
NO SCALE



D FIBER ROLL
NO SCALE



E CHAIN-LINK FENCE MODIFICATIONS
NO SCALE



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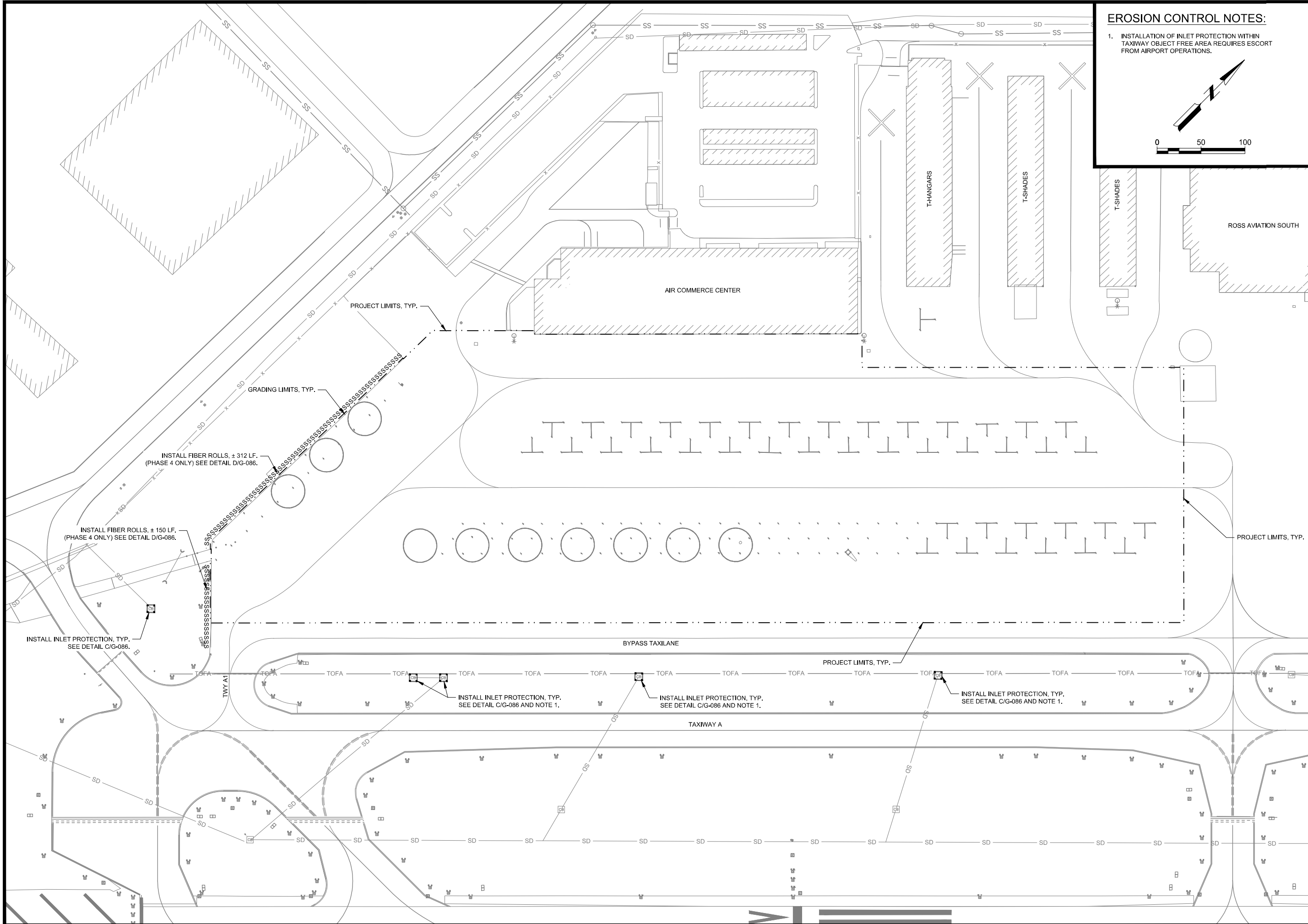
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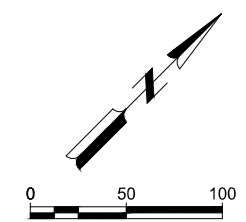
CONSTRUCTION
SAFETY & PHASING
PLAN - DETAILS

SHEET NO. 11 of 36



EROSION CONTROL NOTES:

1. INSTALLATION OF INLET PROTECTION WITHIN TAXIWAY OBJECT FREE AREA REQUIRES ESCORT FROM AIRPORT OPERATIONS.



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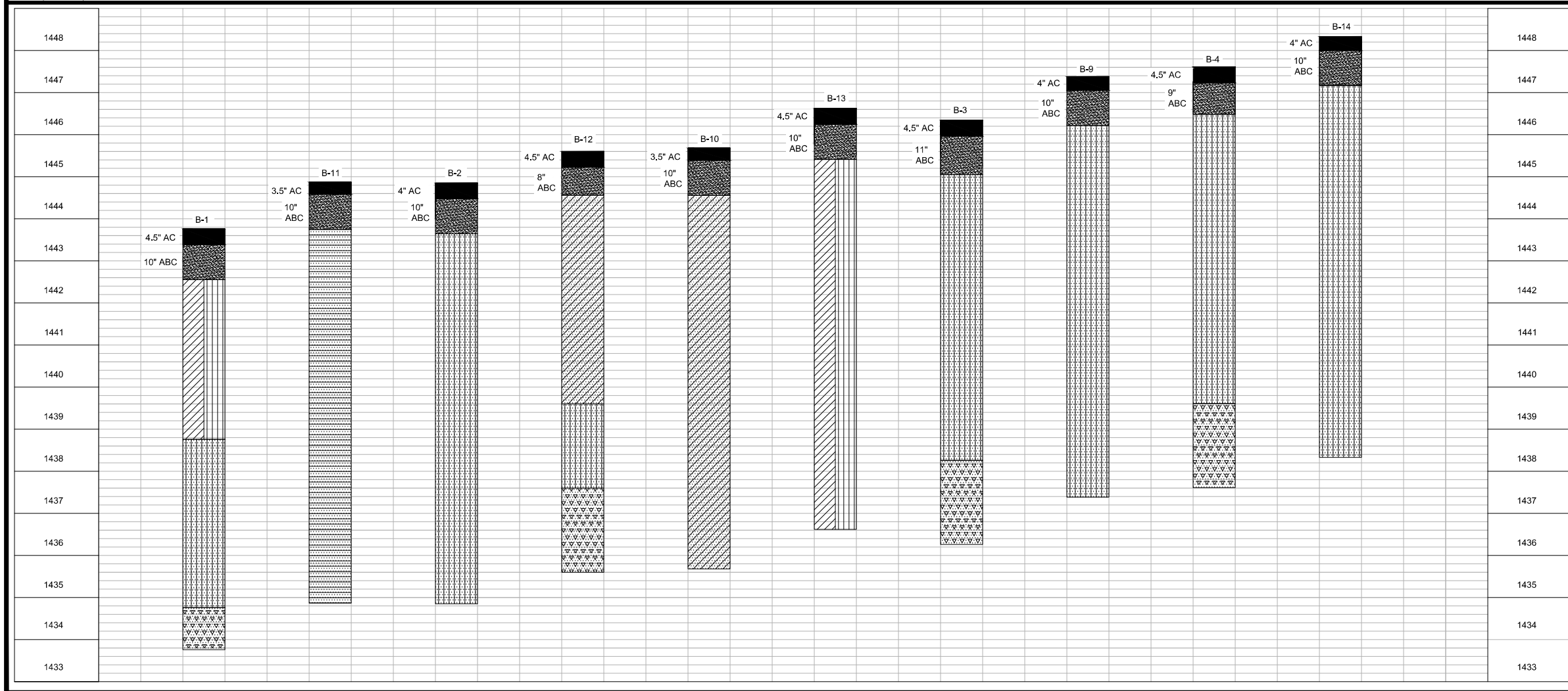
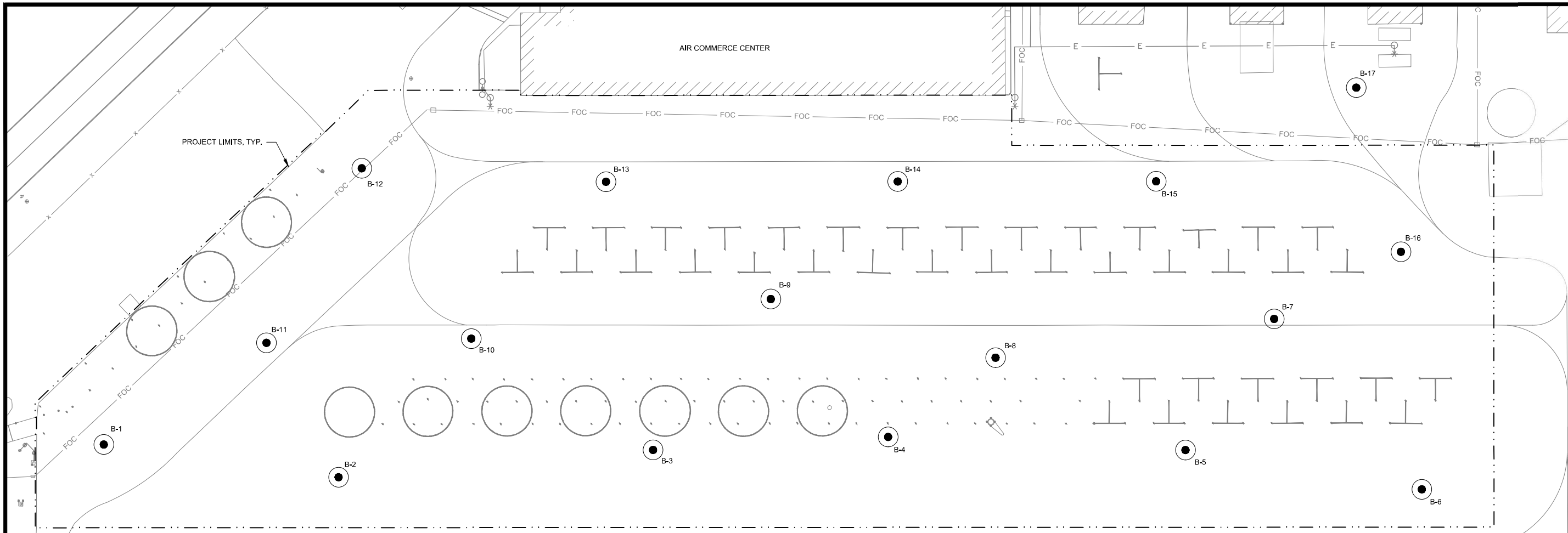
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SHEET CONTENTS
 EROSION CONTROL
 PLAN

SHEET NO. 12 of 36

G-091

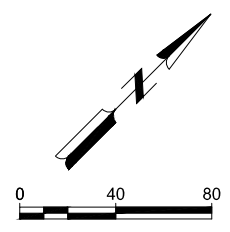
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LEGEND

	ASPHALT CONCRETE
	AGGREGATE BASE COURSE
	SANDY CLAY
	CLAYEY SAND
	SANDY SILT AND CLAY
	SILTY SAND
	CLAYEY SILTY SAND
	POORLY-GRADED SAND

NOTES:
 1. INFORMATION PROVIDED IS BASED ON THE "GEOTECHNICAL EVALUATION REPORT" DATED FEBRUARY 28, 2018 BY WESTERN TECHNOLOGIES.
 2. THE "GEOTECHNICAL EVALUATION REPORT" FOR THE PROJECT IS PROVIDED IN ITS ENTIRETY IN THE PROJECT SPECIFICATIONS.



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 15255 N. AIRPORT DRIVE
 SCOTTSDALE, AZ 85260

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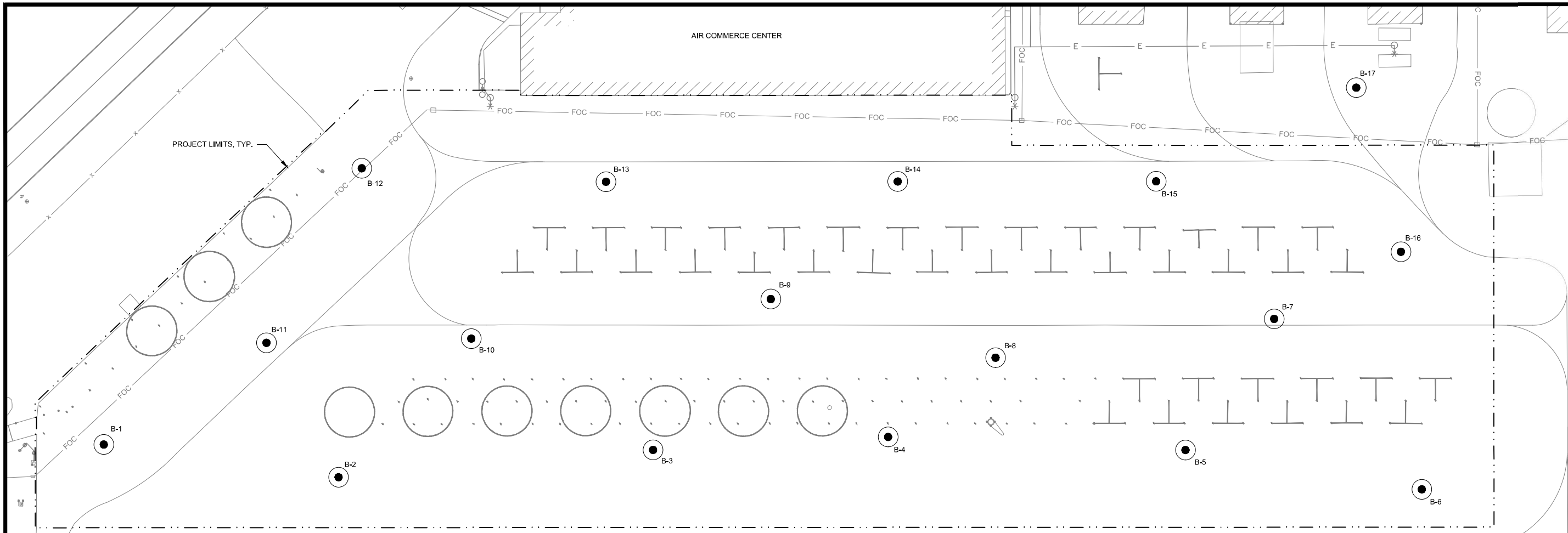
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AP NO: 3-04-0032-036-2018
 MH NO: 2886300-172363.01
 DATE: MARCH 19, 2018
 DESIGNED BY: DPS
 DRAWN BY: BJM
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SHEET CONTENTS
PLAN & LOG OF SOIL BORINGS

SHEET NO: 13 of 36
B-051

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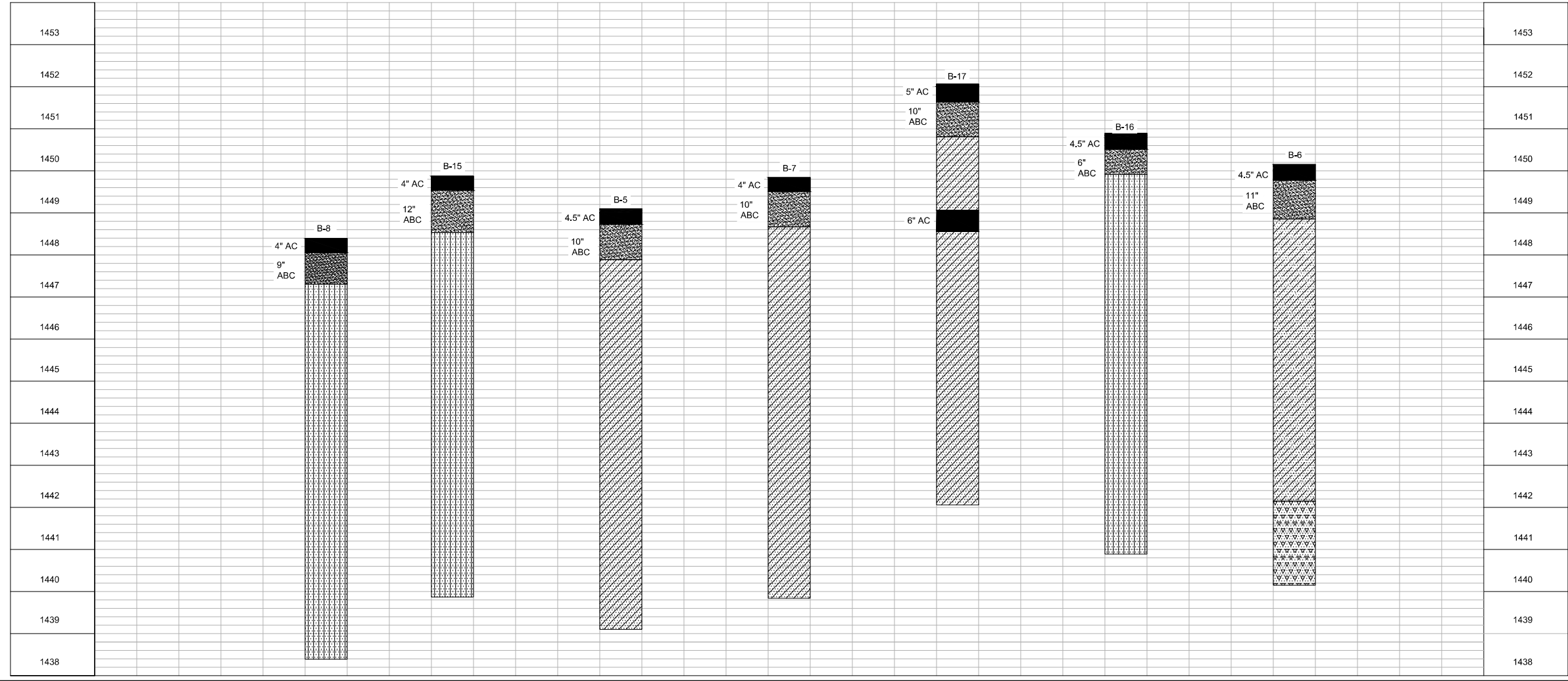


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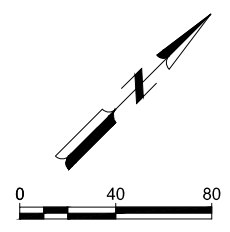
**SCOTTSDALE AIRPORT
 DELTA APRON RECONSTRUCTION**
 15255 N. AIRPORT DRIVE
 SCOTTSDALE, AZ 85260



LEGEND

	ASPHALT CONCRETE
	AGGREGATE BASE COURSE
	SANDY CLAY
	CLAYEY SAND
	SANDY SILT AND CLAY
	SILTY SAND
	CLAYEY SILTY SAND
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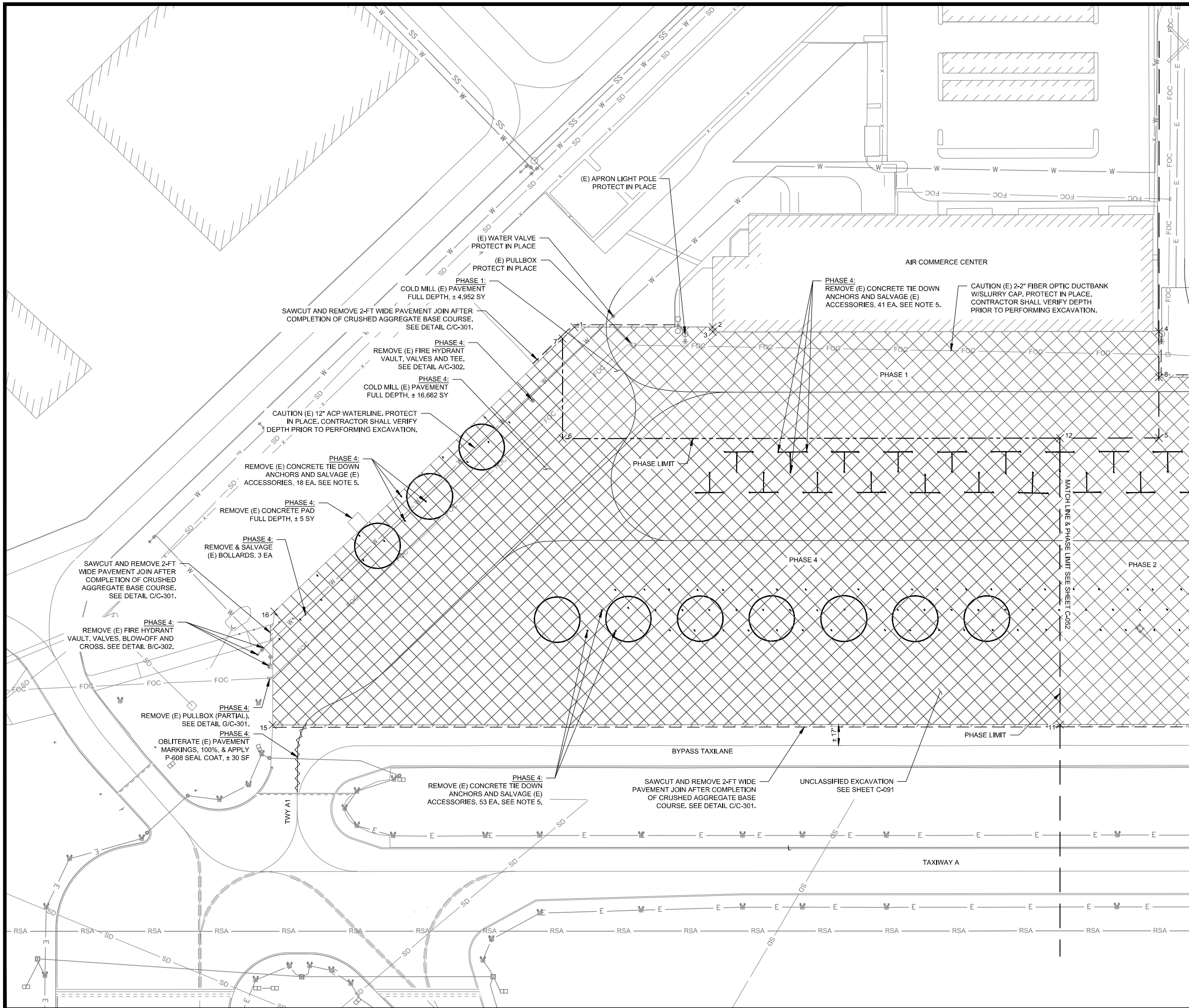
SHEET CONTENTS

PLAN & LOG OF SOIL BORINGS

SHEET NO. 14 of 36

B-052

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DEMOLITION NOTES:

- A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATION OF EXISTING UNDERGROUND FACILITIES IN THE CONSTRUCTION AREA. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO THE EXISTING FACILITIES CAUSED DURING THEIR CONSTRUCTION OPERATIONS. CONTRACTOR SHALL CALL ARIZONA 811 AND AIRPORT OPERATIONS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL POTHOLE EXISTING FIBER OPTIC AND ELECTRICAL DUCTBANKS AND WATERLINE PRIOR TO EXCAVATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND PERMITTING OF ALL CONSTRUCTION AFFECTING UTILITIES AND COORDINATION OF ANY NECESSARY UTILITY RELOCATION OR MODIFICATIONS.
- DISPOSAL OF ALL MILLINGS, UNCLASSIFIED EXCAVATION, AND DEMOLITION MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL ASSUME ALL EXCESS MATERIAL WILL BE REQUIRED TO BE HAULED AND DISPOSED OFF AIRPORT PROPERTY. ALL COSTS ASSOCIATED WITH OFF HAUL (INCLUDING ANY ENVIRONMENTAL TESTING) SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- ALL ABANDONED CONDUIT, UTILITIES, DUCTBANKS, VAULTS, FOUNDATIONS, OR STRUCTURES UNCOVERED DURING EXCAVATION ACTIVITIES SHALL BE REMOVED IN THEIR ENTIRETY WITHIN THE PROJECT LIMITS.
- CONCRETE TIE DOWN ANCHORS ARE APPROXIMATELY 1-FT DIA, BY 3-FT DEEP AND SHALL BE REMOVED IN THEIR ENTIRETY. ALL CONCRETE TIE DOWN ANCHOR ACCESSORIES SHALL BE SALVAGED AND REINSTALLED ON NEW CONCRETE TIE DOWN ANCHORS. FILL VOID WITH NATIVE OR APPROVED SELECT FILL MATERIAL IN ACCORDANCE WITH ITEM P-152.

PHASE 1 DEMOLITION LIMITS POINT TABLE

POINT	NORTHING	EASTING
1	951916.272	698723.600
2	951999.382	698803.797
3	951996.569	698806.715
4	952264.917	699065.439
5	952203.064	699129.517
6	951844.465	698783.697
7	951902.527	698723.546

PHASE 2 DEMOLITION LIMITS POINT TABLE

POINT	NORTHING	EASTING
5	952203.064	699129.517
8	952238.346	699092.965
9	952340.267	699191.346
10	952138.706	699400.161
11	951977.291	699244.356
12	952143.571	699072.091

PHASE 3 DEMOLITION LIMITS POINT TABLE

POINT	NORTHING	EASTING
9	952340.267	699191.346
10	952138.706	699400.161
13	952501.681	699347.152
14	952300.121	699555.967

PHASE 4 DEMOLITION LIMITS POINT TABLE

POINT	NORTHING	EASTING
6	951844.465	698783.697
7	951902.527	698723.546
11	951977.291	699244.356
12	952143.571	699072.091
15	951504.038	698787.549
16	951570.701	698720.412

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 DELTA APRON RECONSTRUCTION**
 15255 N. AIRPORT DRIVE
 SCOTTSDALE, AZ 85260

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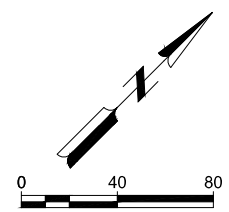
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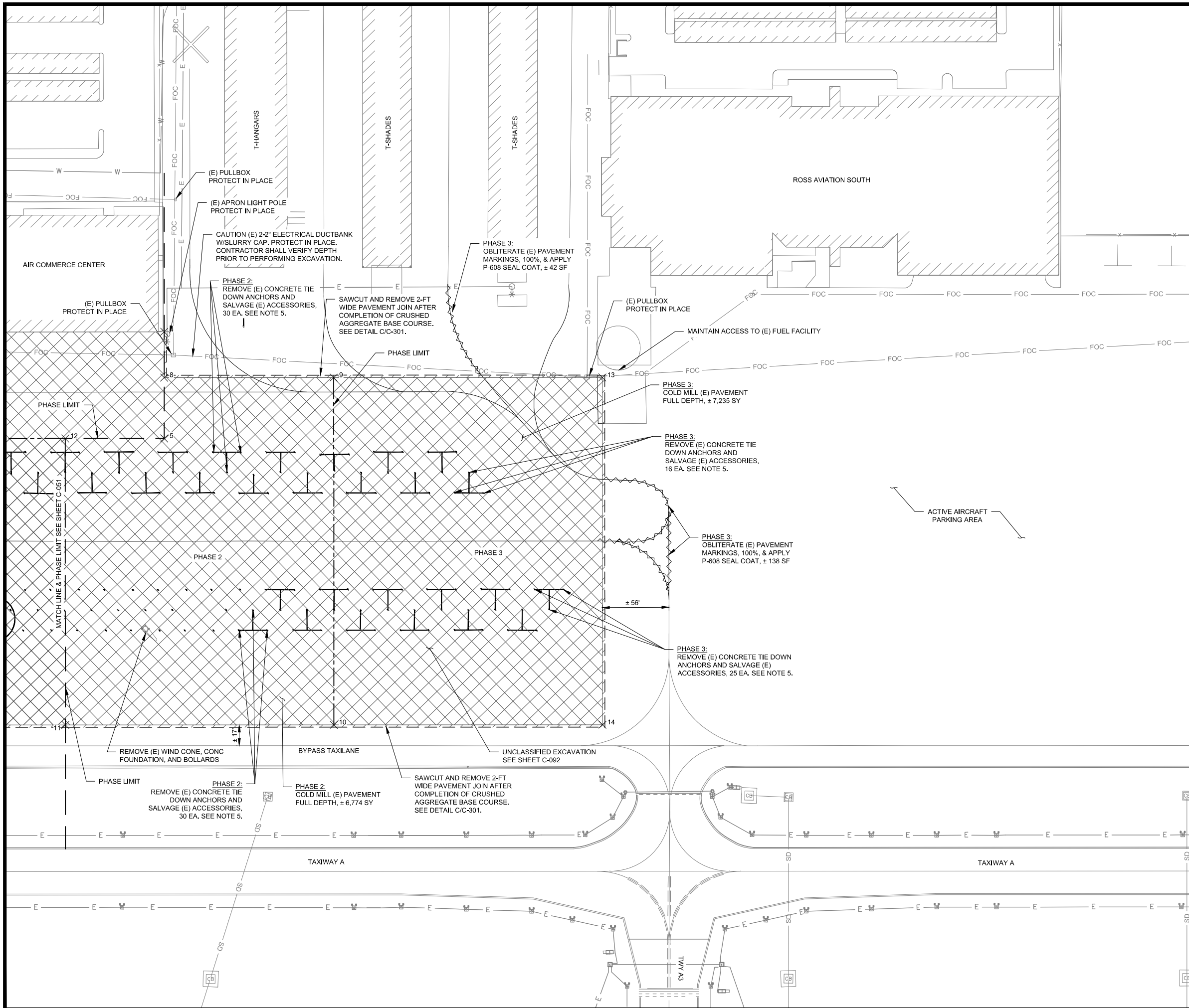
SHEET CONTENTS
DEMOLITION PLAN

SHEET NO. 15 of 36

C-051



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DEMOLITION NOTES:

1. A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATION OF EXISTING UNDERGROUND FACILITIES IN THE CONSTRUCTION AREA. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO THE EXISTING FACILITIES CAUSED DURING THEIR CONSTRUCTION OPERATIONS. CONTRACTOR SHALL CALL ARIZONA 811 AND AIRPORT OPERATIONS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL POTHOLE EXISTING FIBER OPTIC AND ELECTRICAL DUCTBANKS AND WATERLINE PRIOR TO EXCAVATION.
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13	952501.681	699347.152
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16	951570.701	698720.412

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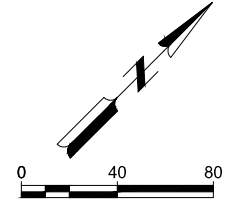
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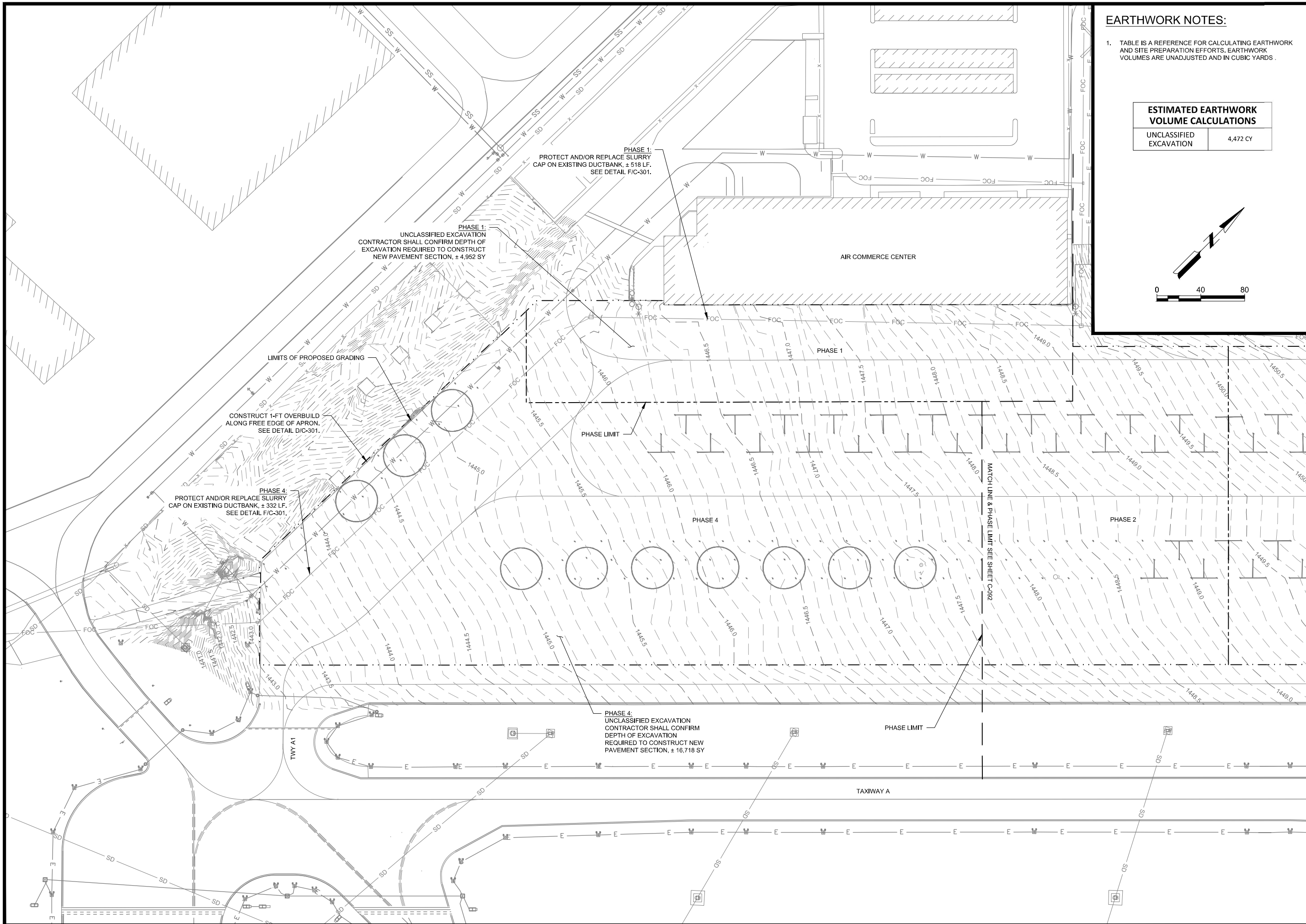
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SHEET CONTENTS
DEMOLITION PLAN

SHEET NO. 16 of 36
C-052



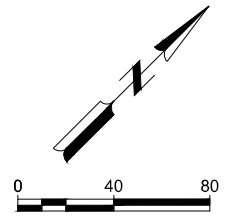
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EARTHWORK NOTES:

1. TABLE IS A REFERENCE FOR CALCULATING EARTHWORK AND SITE PREPARATION EFFORTS. EARTHWORK VOLUMES ARE UNADJUSTED AND IN CUBIC YARDS.

ESTIMATED EARTHWORK VOLUME CALCULATIONS	
UNCLASSIFIED EXCAVATION	4,472 CY



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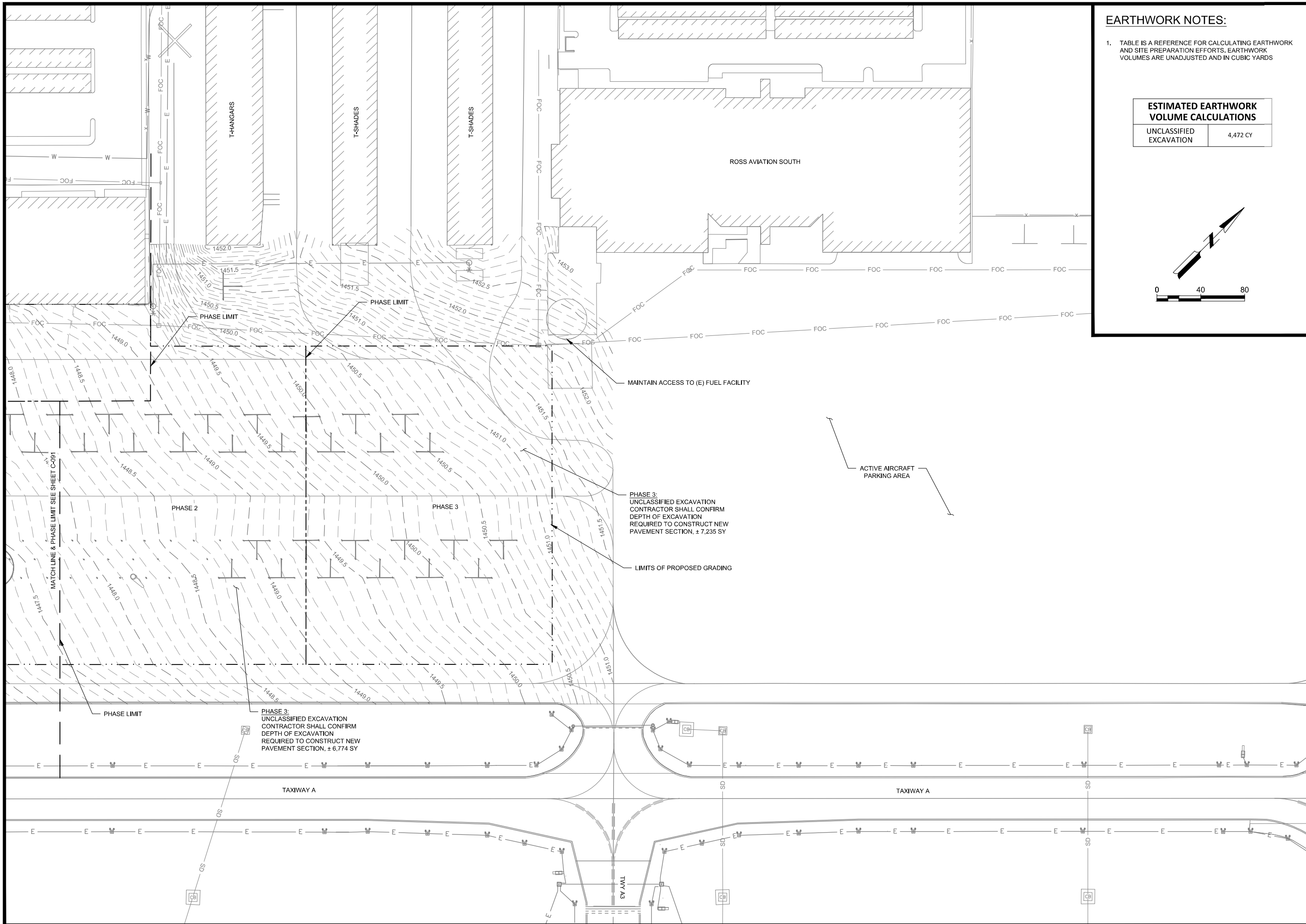
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SHEET CONTENTS
 EXISTING CONTOURS
 & EARTHWORK PAY
 LIMITS

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EARTHWORK NOTES:

- TABLE IS A REFERENCE FOR CALCULATING EARTHWORK AND SITE PREPARATION EFFORTS. EARTHWORK VOLUMES ARE UNADJUSTED AND IN CUBIC YARDS

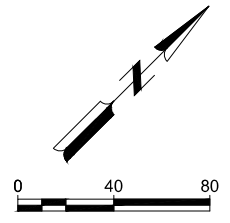
ESTIMATED EARTHWORK VOLUME CALCULATIONS

UNCLASSIFIED EXCAVATION	4,472 CY
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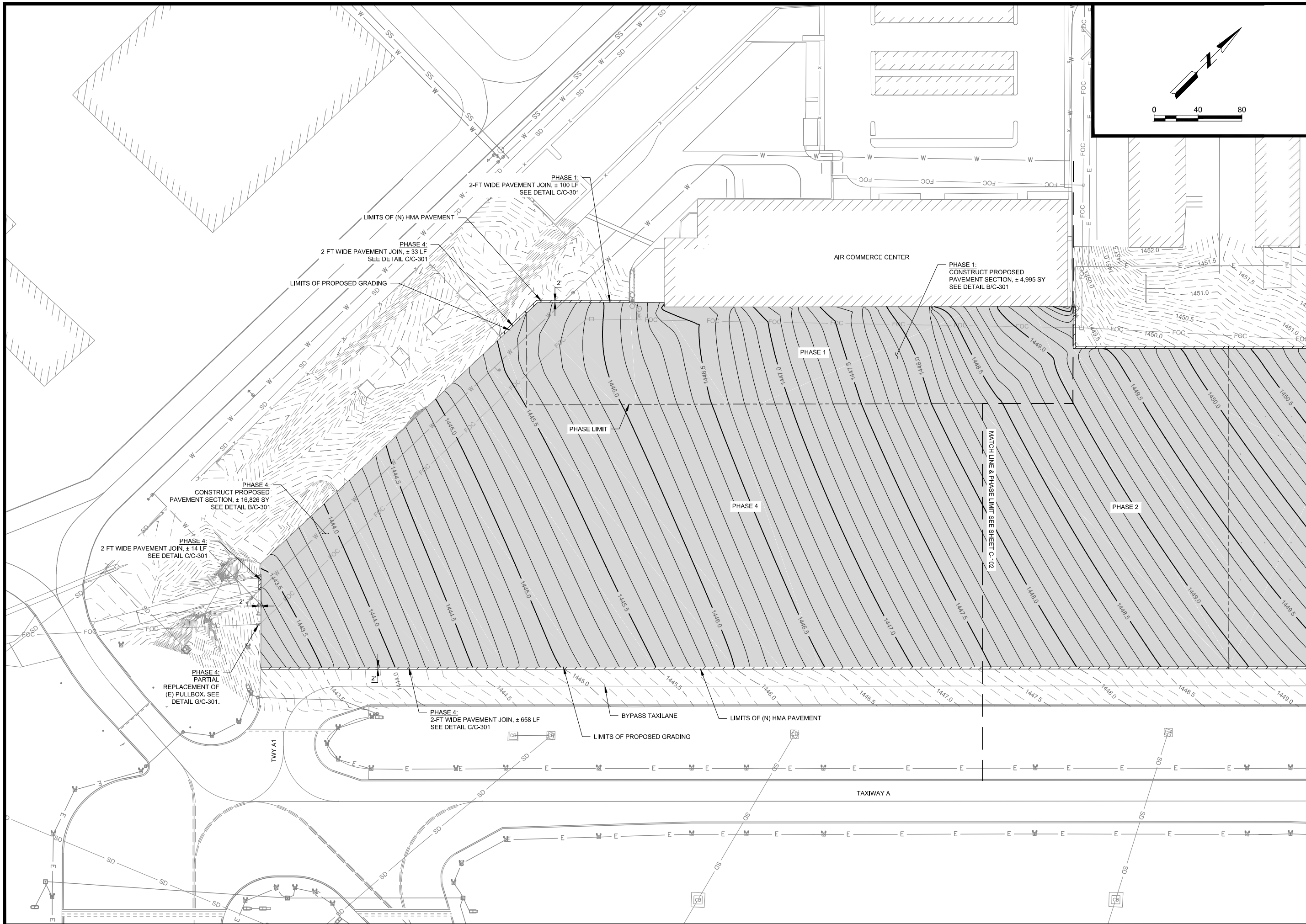
SHEET CONTENTS

EXISTING CONTOURS
 & EARTHWORK PAY
 LIMITS

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C-092

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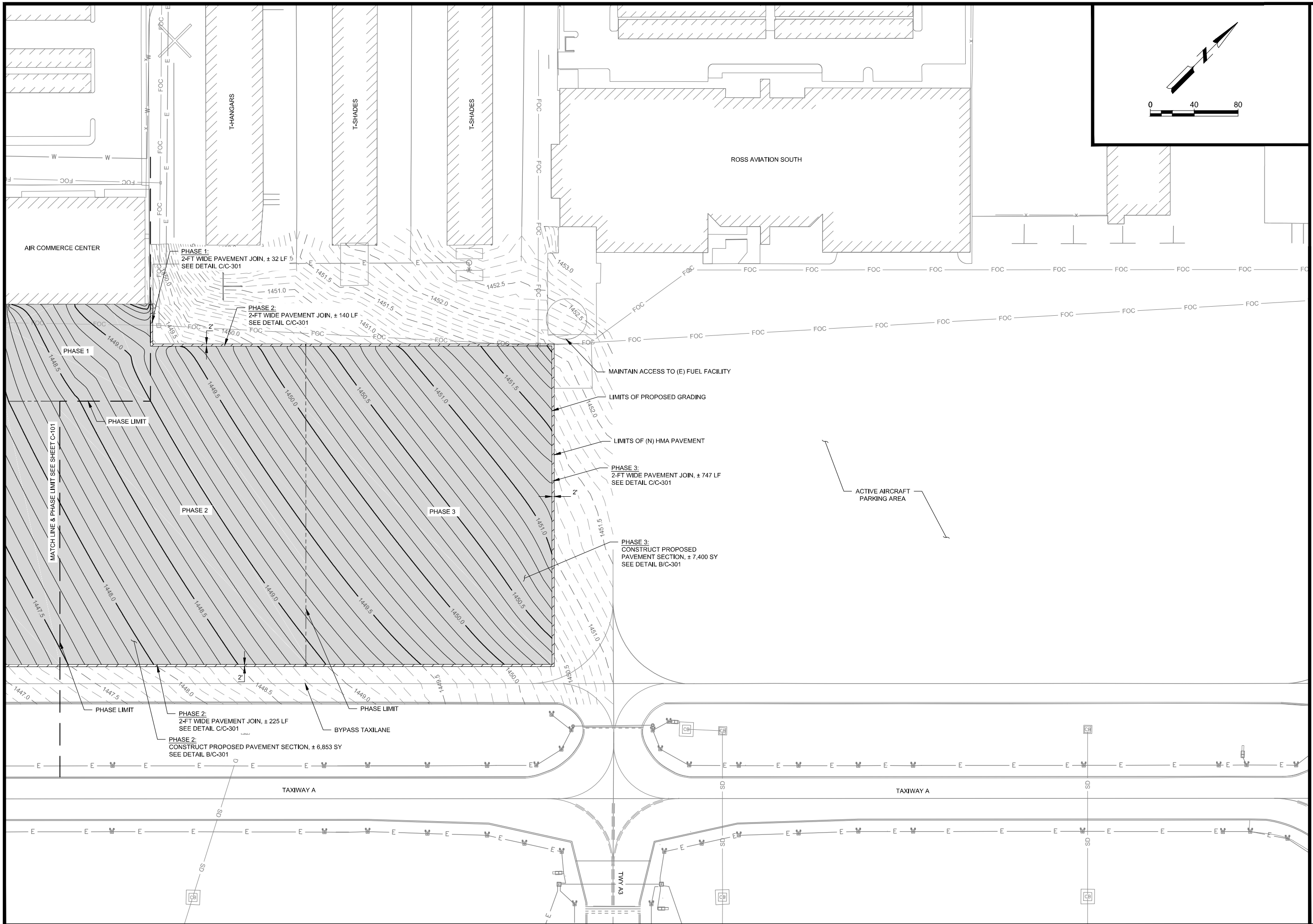
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SHEET CONTENTS
GRADING & DRAINAGE PLAN

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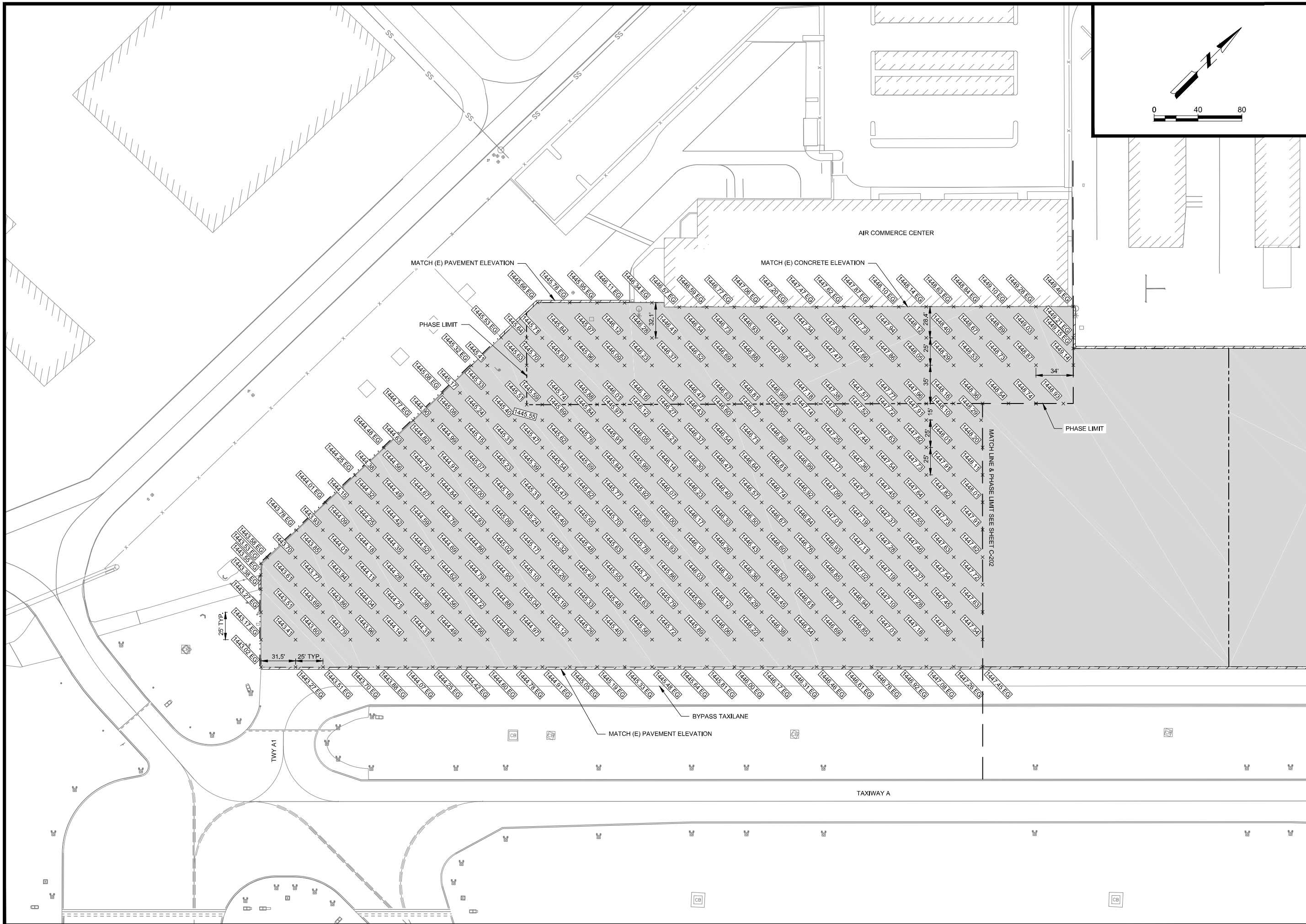
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SHEET CONTENTS
 GRADING & DRAINAGE PLAN

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C-102

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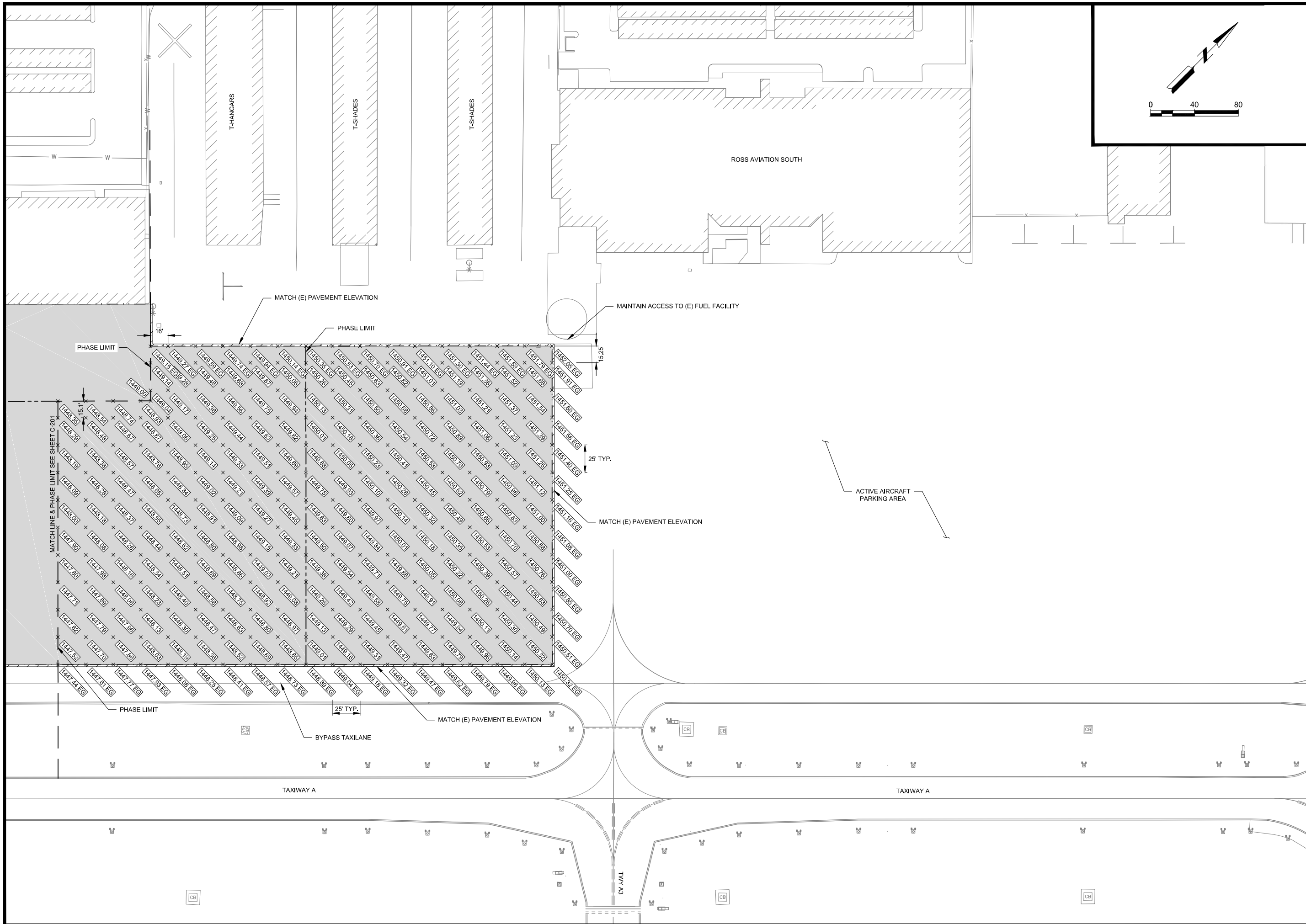
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DRAWN BY:	BJM
CHECKED BY:	SVG

SHEET CONTENTS
**PAVEMENT
 ELEVATION PLAN**

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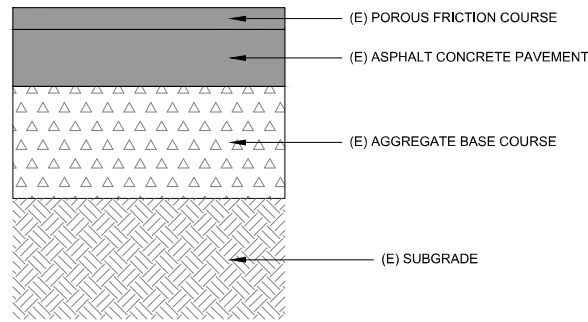
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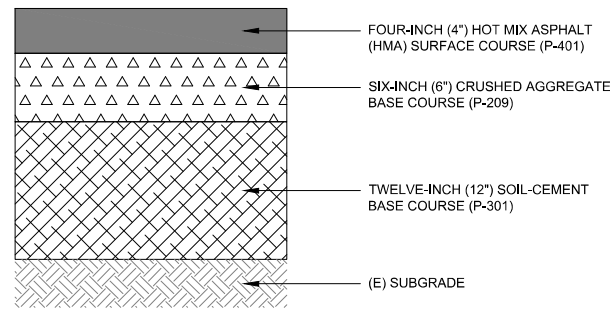
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**PAVEMENT
 ELEVATION PLAN**

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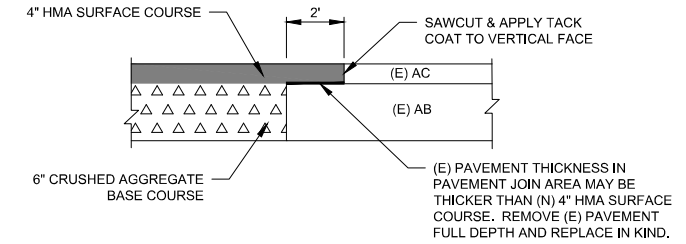


NOTE:
1. DEPTH OF EXISTING PAVEMENT SECTION MATERIALS VARIES. SEE SHEET B-051 & B-052 FOR PLAN & LOG OF SOIL BORINGS.

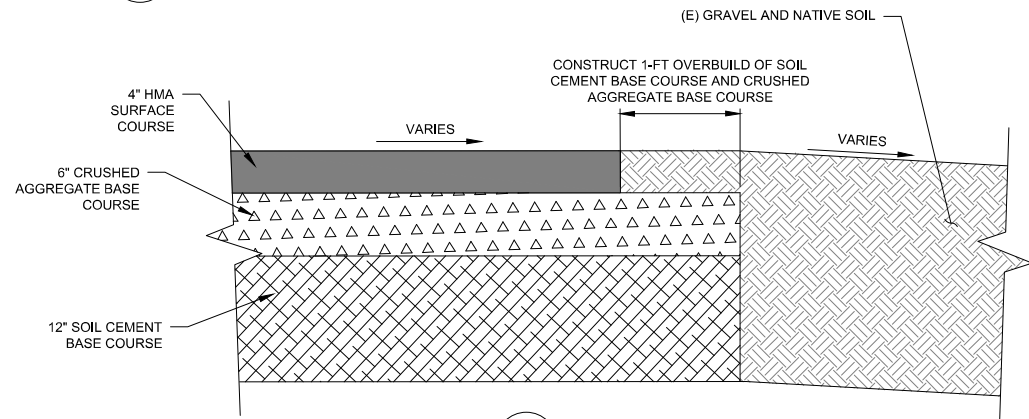
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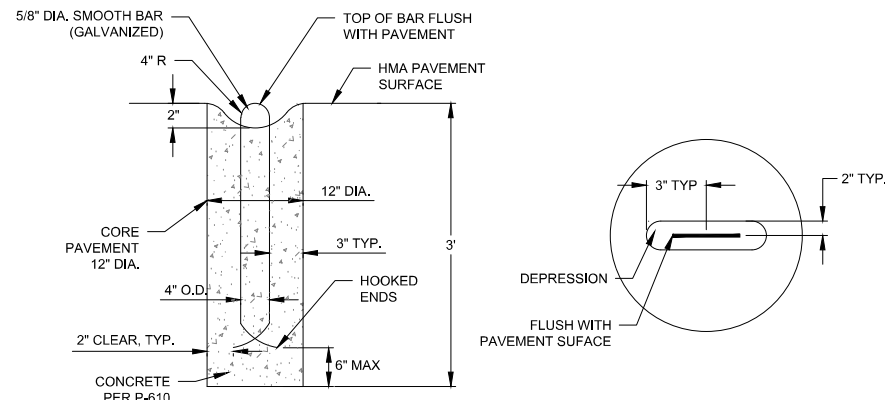
B PROPOSED PAVEMENT SECTION
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C PAVEMENT JOIN
NO SCALE

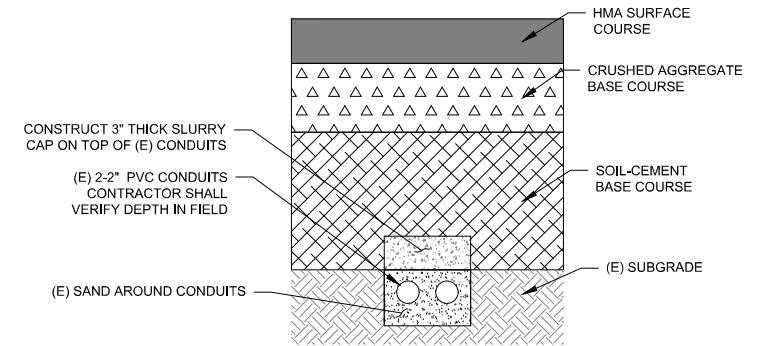


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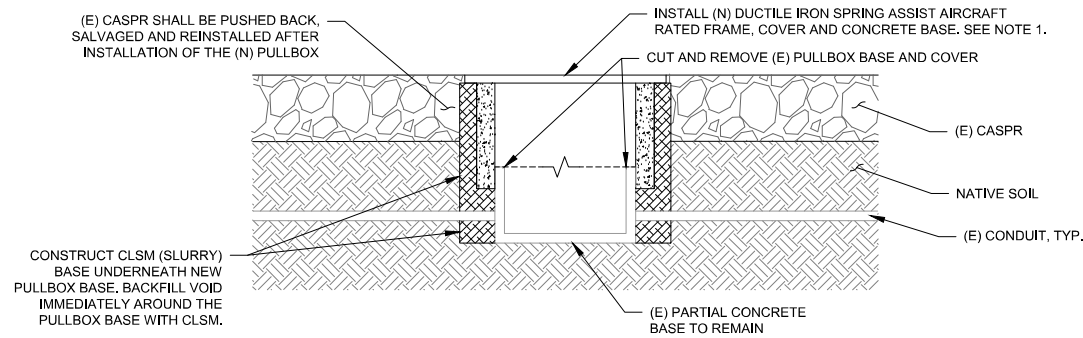
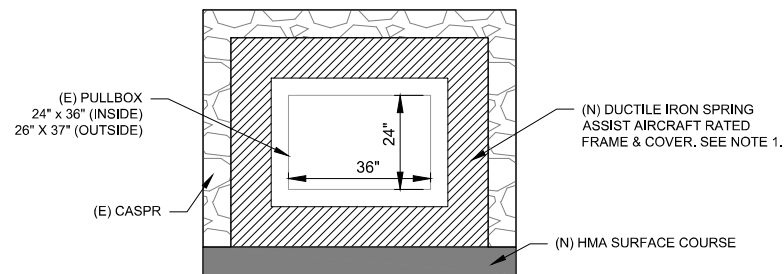


NOTES:
1. NEW TIE-DOWN ACCESSORIES SHALL BE EXCLUDED FROM BID ESTIMATE. SALVAGED TIE-DOWN ACCESSORIES SHALL BE INSTALLED ON NEW TIE-DOWN ANCHORS.
2. CONCRETE FOR TIE-DOWN ANCHORS SHALL BE POURED IN PLACE. CONCRETE SHALL BE IN ACCORDANCE WITH ITEM P-610.
3. STEEL SHALL BE GALVANIZED AND CONFORM TO THE REQUIREMENTS OF ASTM A615, A706, A775, OR A934.

E CONCRETE TIE-DOWN ANCHOR
NO SCALE

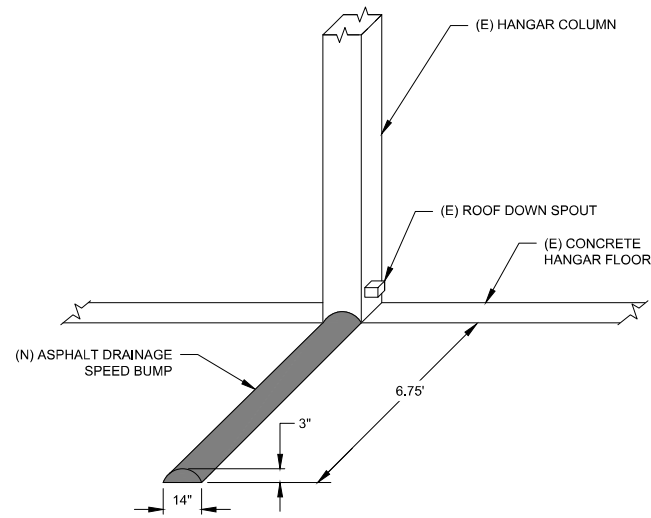


F SLURRY CAP ON EXISTING CONDUIT
NO SCALE

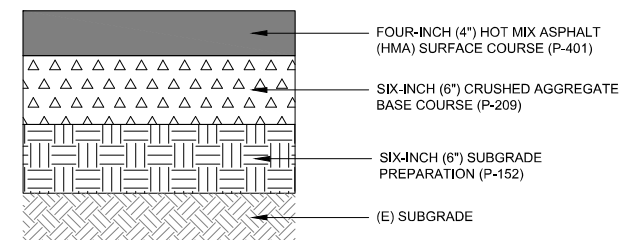


NOTES:
1. PULLBOX FRAME, COVER AND CONCRETE BASE SHALL BE AIRCRAFT RATED TO WITHSTAND A MAXIMUM TIRE PRESSURE OF 250 PSI AND MAXIMUM LOAD OF 100,000-POUND DUAL WHEEL.
2. CONTRACTOR SHALL CONFIRM EXACT PULLBOX DIMENSIONS PRIOR TO ORDERING NEW PULLBOX FRAME, COVER AND CONCRETE BASE.
3. PROTECT (E) FIBER OPTIC CABLES WITHIN EXISTING PULLBOX. CIRCUIT TO REMAIN IN-PLACE AND OPERATIONAL DURING CONSTRUCTION.
4. PULLBOX SHALL BE SET FLUSH WITH ADJACENT FINISHED GRADES.
5. PULLBOX FRAME, COVER AND CONCRETE BASE SHALL BE DESIGNED FOR THE LOAD RATING INDICATED IN NOTE 1. CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY CONTRACTOR SHOWING THE LOAD RATING FOR THE PULLBOX. THE PULLBOX DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE SEALED AND SIGNED BY AN ARIZONA LICENSED STRUCTURAL ENGINEER AND SUBMITTED TO THE AIRPORT/ENGINEER FOR APPROVAL.
6. CONTRACTOR SHALL BACKFILL THE AREA IMMEDIATELY AROUND THE PULLBOX WITH CLSM (SLURRY) IN ACCORDANCE WITH ITEM P-153. ALL OTHER DISTURBED AREAS SHALL BE BACKFILLED WITH NATIVE MATERIAL AND COMPACTED IN ACCORDANCE WITH ITEM P-152.

G PULLBOX COVER REPLACEMENT
NO SCALE



H ASPHALT SPEED BUMP
NO SCALE



I TEMPORARY PAVEMENT SECTION
NO SCALE



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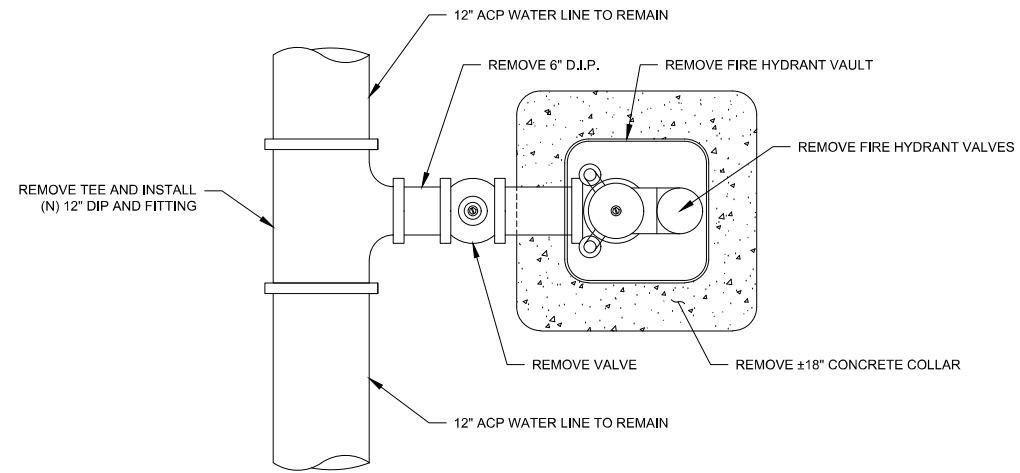
SHEET CONTENTS
TYPICAL SECTIONS &
CIVIL DETAILS

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C-301

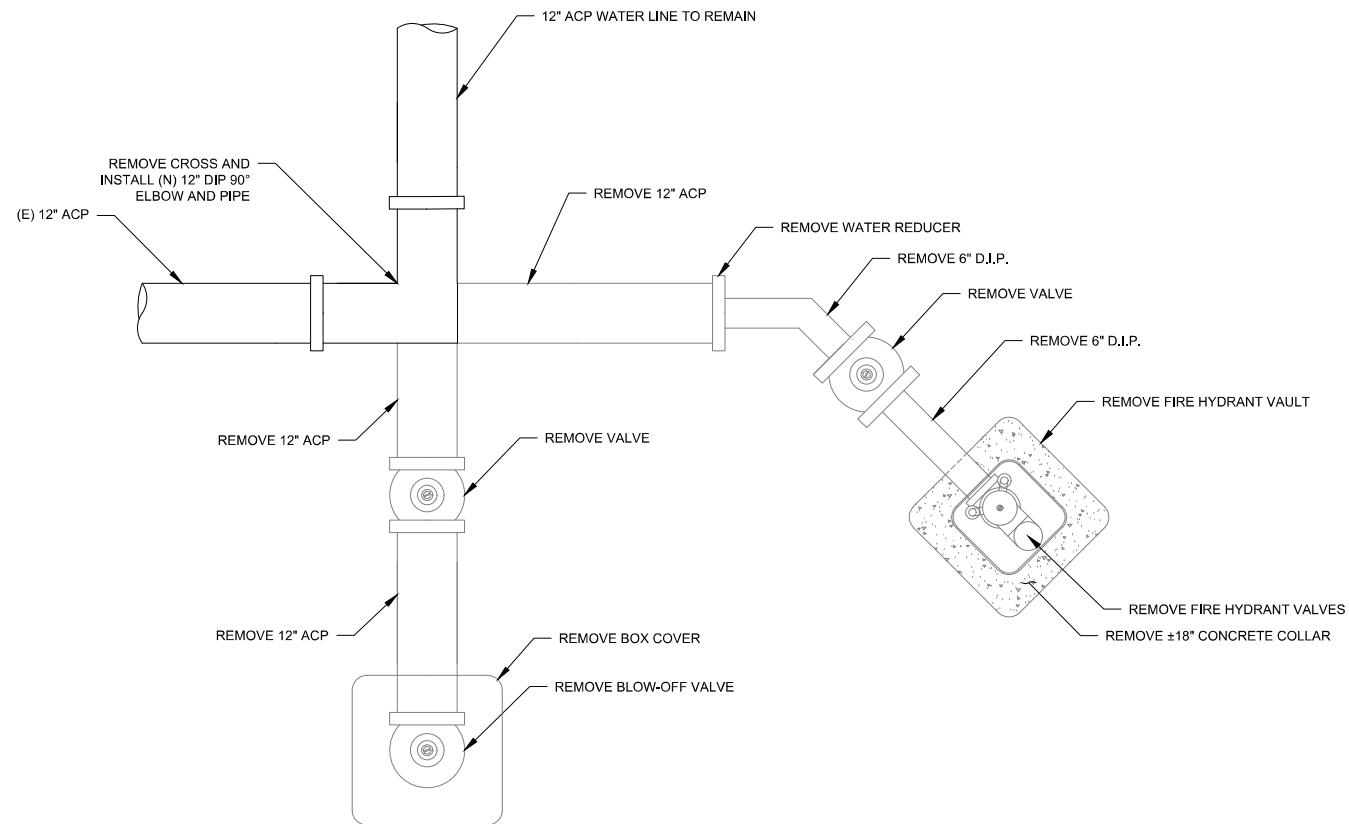


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- NOTES:**
1. FIRE HYDRANT VAULT REMOVAL INCLUDES THE COMPLETE REMOVAL OF THE VAULT, TEE, 6" DIP, VALVE, AND FIRE HYDRANT ALONG WITH ANY OTHER RELATED APPURTENANCES.
 2. PER CITY OF SCOTTSDALE DESIGN STANDARDS & POLICIES MANUAL, 3 LF OF THE EXISTING 12" ACP ON BOTH SIDES OF THE (E) TEE SHALL BE REMOVED AND REPLACED WITH NEW 12" DIP.
 3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, COORDINATION, INSPECTIONS AND TESTING WITH THE CITY.

A FIRE HYDRANT VAULT REMOVAL
NO SCALE



- NOTES:**
1. FIRE HYDRANT VAULT REMOVAL INCLUDES THE COMPLETE REMOVAL OF THE VAULT, CROSS, 6" DIP, VALVES, WATER REDUCER, BLOW-OFF VALVE, AND FIRE HYDRANT ALONG WITH ANY OTHER RELATED APPURTENANCES .
 2. PER CITY OF SCOTTSDALE DESIGN STANDARDS & POLICIES MANUAL, 3 LF OF EXISTING 12" ACP ON BOTH SIDES OF THE (E) CROSS SHALL BE REMOVED AND REPLACED WITH NEW 12" DIP.
 3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, COORDINATION, INSPECTIONS AND TESTING WITH THE CITY.

B FIRE HYDRANT VAULT & BLOW-OFF VALVE REMOVAL
NO SCALE

SCOTTSDALE AIRPORT
DELTA APRON RECONSTRUCTION

15255 N. AIRPORT DRIVE
SCOTTSDALE, AZ 85260

ISSUED

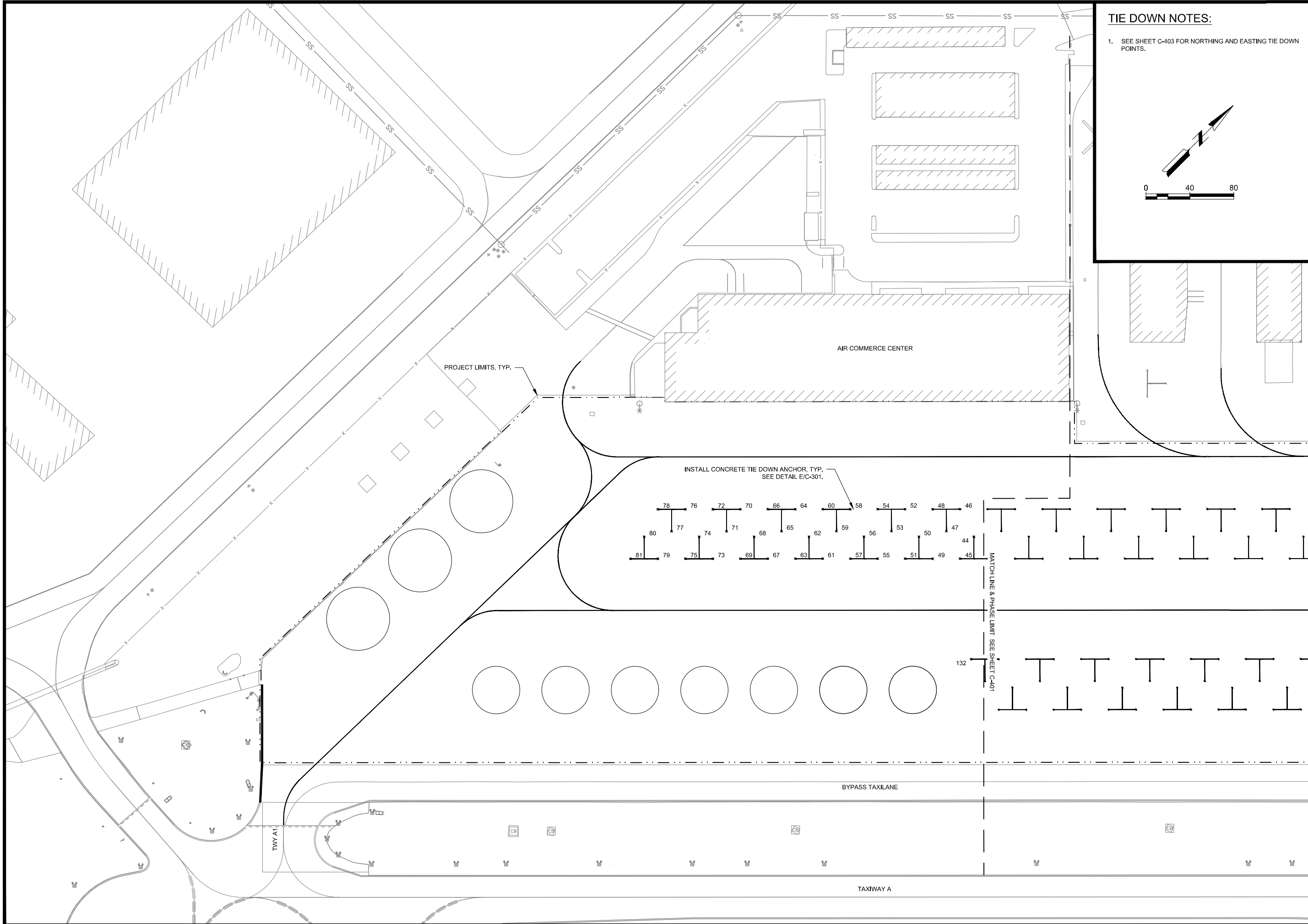
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MH NO.: 2886300-172363.01
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SHEET CONTENTS
WATER LINE
MODIFICATIONS

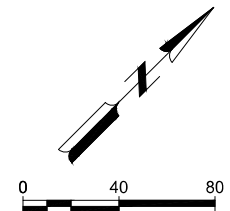
SHEET NO. 24 of 36

C-302



TIE DOWN NOTES:

1. SEE SHEET C-403 FOR NORTHING AND EASTING TIE DOWN POINTS.



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**SCOTTSDALE AIRPORT
 DELTA APRON RECONSTRUCTION**

15255 N. AIRPORT DRIVE
 SCOTTSDALE, AZ 85260

ISSUED

BID SET

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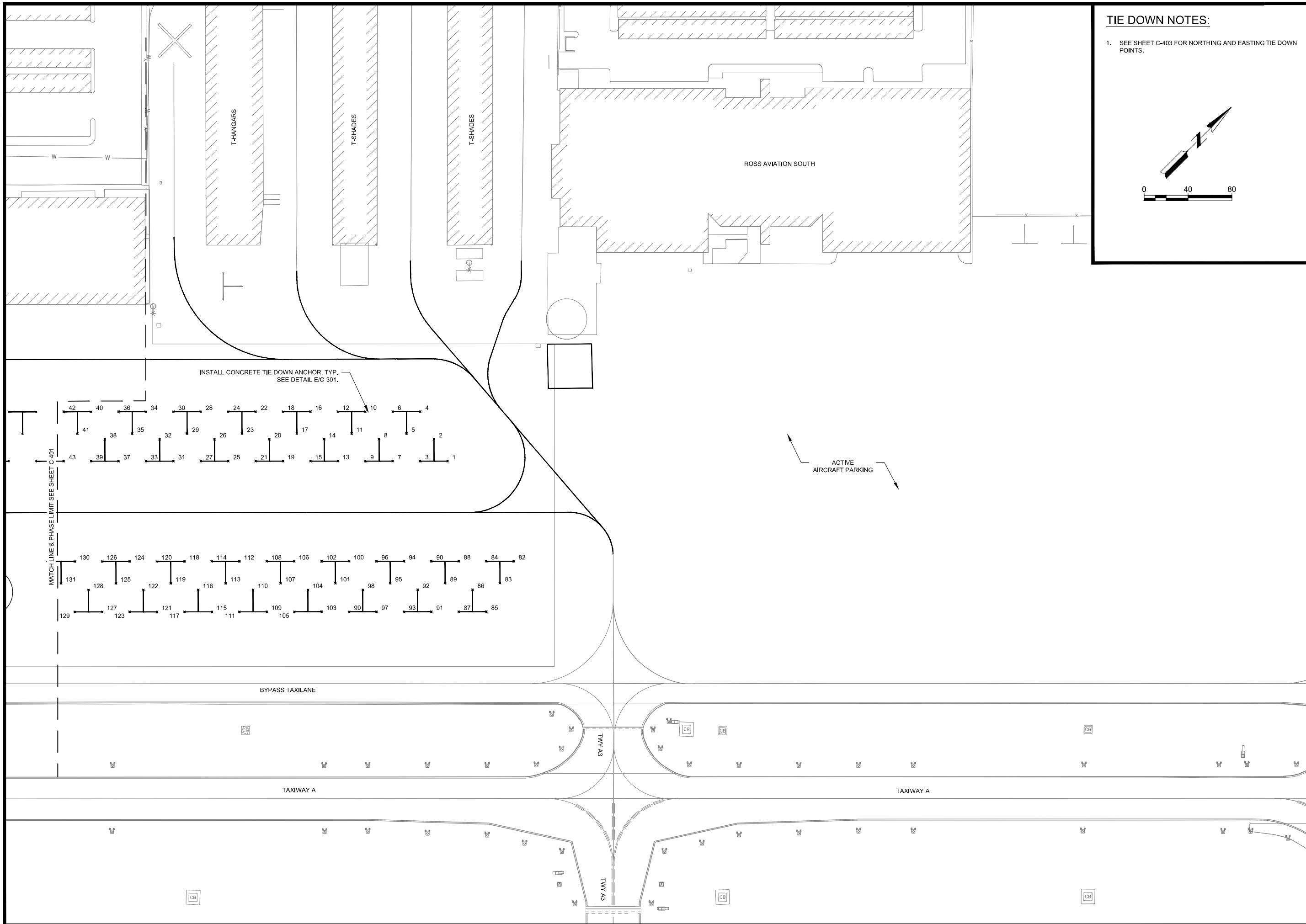
SHEET CONTENTS

TIE DOWN LAYOUT PLAN

SHEET NO. 25 of 36

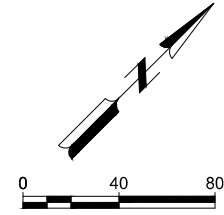
C-401

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TIE DOWN NOTES:

1. SEE SHEET C-403 FOR NORTHING AND EASTING TIE DOWN POINTS.



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**SCOTTSDALE AIRPORT
DELTA APRON RECONSTRUCTION**

15255 N. AIRPORT DRIVE
SCOTTSDALE, AZ 85260

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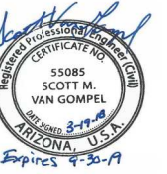
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**SHEET CONTENTS
TIE DOWN LAYOUT PLAN**

SHEET NO. 26 of 36

C-402



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**SCOTTSDALE AIRPORT
DELTA APRON RECONSTRUCTION**
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 CHECKED BY: SVG

SHEET CONTENTS
 TIE DOWN LAYOUT
 POINT TABLE

SHEET NO. 27 of 36

C-403

TIE-DOWN POINT TABLE		
POINT NUMBER	NORTHING	EASTING
1	952360.378	699356.526
2	952365.275	699333.454
3	952342.394	699339.160
4	952373.690	699306.696
5	952350.806	699312.404
6	952355.703	699289.333
7	952324.404	699321.801
8	952329.300	699298.730
9	952306.420	699304.435
10	952337.715	699271.971
11	952314.832	699277.679
12	952319.728	699254.608
13	952288.434	699287.070
14	952293.331	699263.999
15	952270.450	699269.705
16	952301.741	699237.246
17	952278.857	699242.954
18	952283.753	699219.883
19	952252.465	699252.340
20	952257.361	699229.269
21	952234.481	699234.974
22	952265.766	699202.521
23	952242.882	699208.230
24	952247.779	699185.158
25	952216.495	699217.610
26	952221.392	699194.539
27	952198.511	699200.244
28	952229.791	699167.796
29	952206.908	699173.505
30	952211.804	699150.433
31	952180.526	699182.879
32	952185.422	699159.808
33	952162.542	699165.514
34	952193.816	699133.071
35	952170.933	699138.780
36	952175.829	699115.708
37	952144.556	699148.149
38	952149.453	699125.078
39	952126.572	699130.783
40	952157.842	699098.346
41	952134.958	699104.055
42	952139.854	699080.984
43	952108.587	699113.419
44	952113.483	699090.348
45	952090.603	699096.053
46	952121.867	699063.621
47	952098.983	699069.330
48	952103.880	699046.259
49	952072.617	699078.688
50	952077.514	699055.617

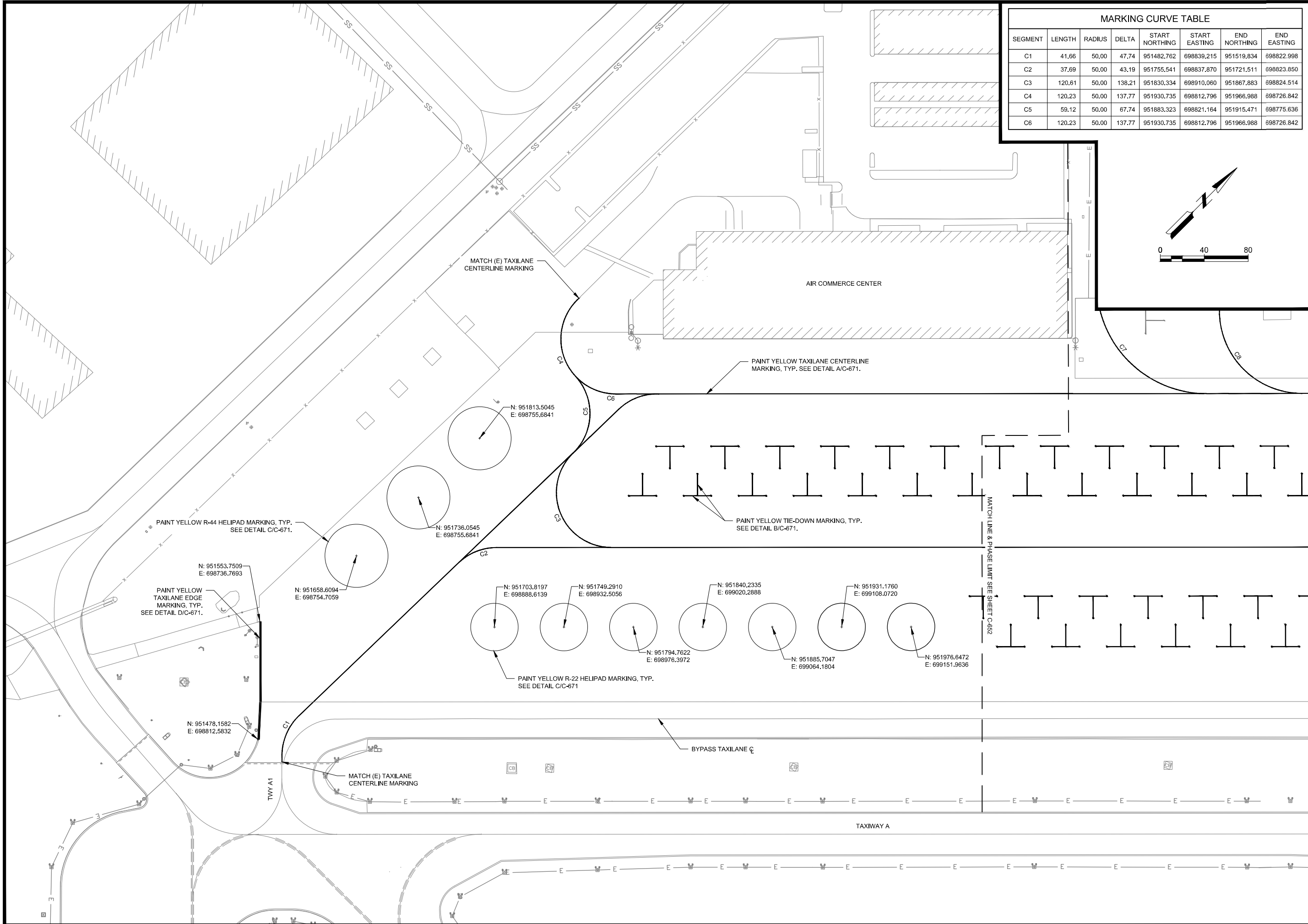
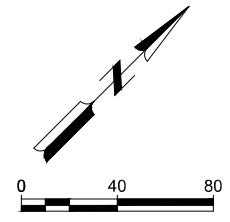
TIE-DOWN POINT TABLE		
POINT NUMBER	NORTHING	EASTING
51	952054.633	699061.323
52	952085.892	699028.896
53	952063.009	699034.605
54	952067.905	699011.534
55	952036.648	699043.958
56	952041.544	699020.887
57	952018.664	699026.592
58	952049.918	698994.171
59	952027.034	698999.880
60	952031.930	698976.809
61	952000.678	699009.228
62	952005.575	698986.157
63	951982.694	698991.862
64	952013.943	698959.446
65	951991.059	698965.155
66	951995.956	698942.084
67	951964.709	698974.498
68	951969.610	698951.421
69	951946.724	698957.132
70	951977.968	698924.721
71	951955.085	698930.430
72	951959.981	698907.359
73	951928.739	698939.767
74	951933.641	698916.691
75	951910.755	698922.402
76	951941.994	698889.996
77	951919.110	698895.705
78	951924.006	698872.634
79	951892.770	698905.037
80	951897.671	698881.960
81	951874.785	698887.671
82	952340.146	699463.989
83	952317.262	699469.698
84	952322.158	699446.627
85	952290.229	699479.705
86	952295.126	699456.634
87	952272.242	699462.343
88	952304.171	699429.265
89	952281.287	699434.974
90	952286.183	699411.903
91	952254.254	699444.981
92	952259.150	699421.910
93	952236.267	699427.618
94	952268.195	699394.541
95	952245.311	699400.250
96	952250.207	699377.179
97	952218.279	699410.256
98	952223.176	699387.185
99	952200.292	699392.893
100	952232.220	699359.817

TIE-DOWN POINT TABLE		
POINT NUMBER	NORTHING	EASTING
101	952209.336	699365.525
102	952214.232	699342.455
103	952182.305	699375.531
104	952187.201	699352.460
105	952164.317	699358.168
106	952196.244	699325.092
107	952173.360	699330.801
108	952178.257	699307.730
109	952146.330	699340.806
110	952151.226	699317.735
111	952128.343	699323.443
112	952160.269	699290.368
113	952137.385	699296.077
114	952142.281	699273.006
115	952110.355	699306.081
116	952115.252	699283.010
117	952092.368	699288.719
118	952124.294	699255.644
119	952101.410	699261.353
120	952106.306	699238.282
121	952074.381	699271.356
122	952079.277	699248.285
123	952056.393	699253.994
124	952088.318	699220.920
125	952065.434	699226.629
126	952070.330	699203.558
127	952038.406	699236.631
128	952043.302	699213.560
129	952020.419	699219.269
130	952052.343	699186.196
131	952029.459	699191.904
132	952034.355	699168.834



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MARKING CURVE TABLE							
SEGMENT	LENGTH	RADIUS	DELTA	START NORTHING	START EASTING	END NORTHING	END EASTING
C1	41.66	50.00	47.74	951482.762	698839.215	951519.834	698822.998
C2	37.69	50.00	43.19	951755.541	698837.870	951721.511	698823.850
C3	120.61	50.00	138.21	951830.334	698910.060	951867.883	698824.514
C4	120.23	50.00	137.77	951930.735	698812.796	951966.988	698726.842
C5	59.12	50.00	67.74	951883.323	698821.164	951915.471	698775.636
C6	120.23	50.00	137.77	951930.735	698812.796	951966.988	698726.842



**SCOTTSDALE AIRPORT
DELTA APRON RECONSTRUCTION**
15255 N. AIRPORT DRIVE
SCOTTSDALE, AZ 85260

ISSUED

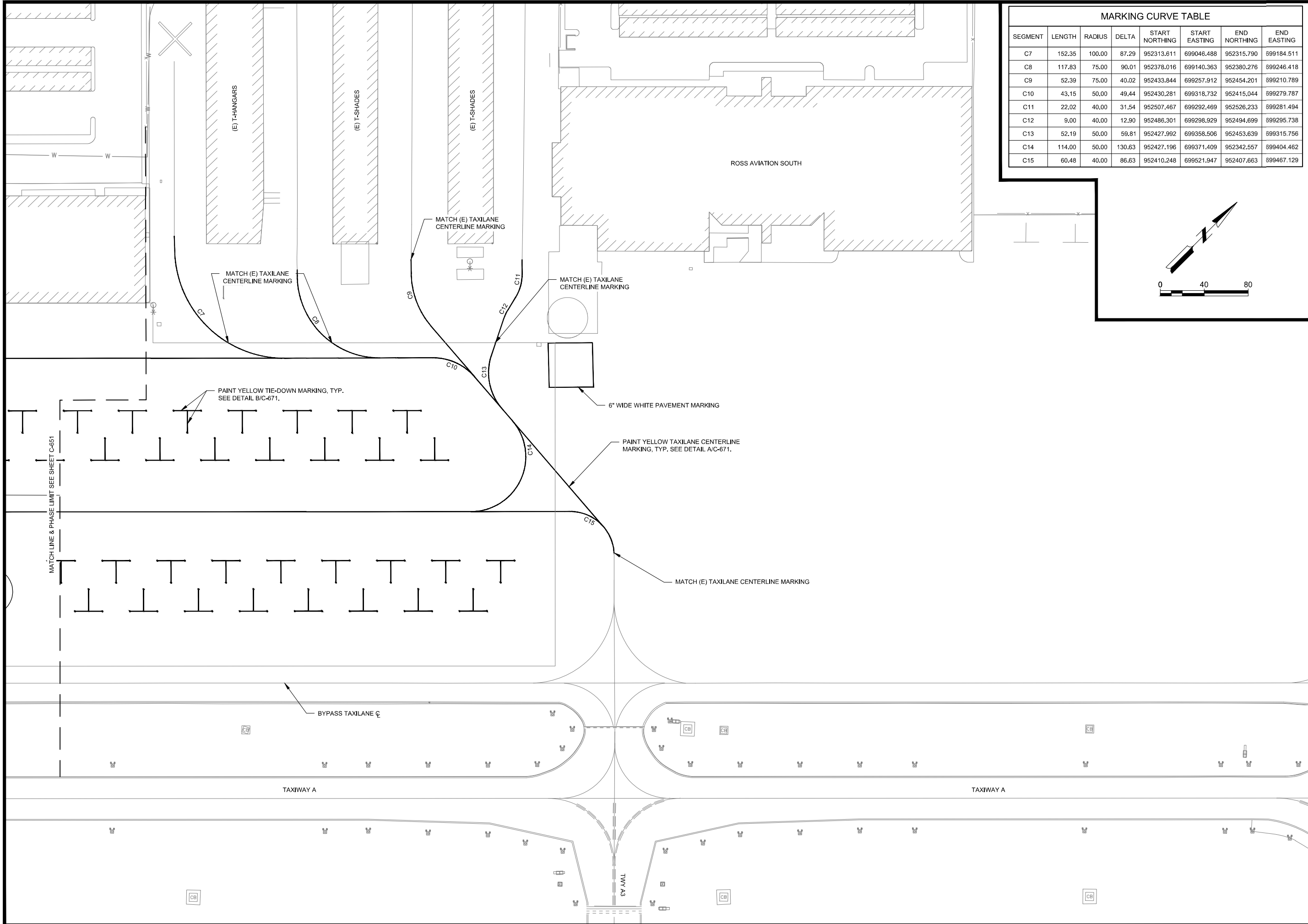
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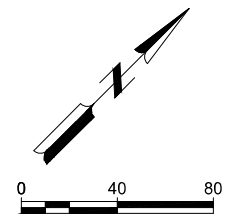
SHEET CONTENTS

MARKING PLAN

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MARKING CURVE TABLE							
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C7	152.35	100.00	87.29	952313.611	699046.488	952315.790	699184.511
C8	117.83	75.00	90.01	952378.016	699140.363	952380.276	699246.418
C9	52.39	75.00	40.02	952433.844	699257.912	952454.201	699210.789
C10	43.15	50.00	49.44	952430.281	699318.732	952415.044	699279.787
C11	22.02	40.00	31.54	952507.467	699292.469	952526.233	699281.494
C12	9.00	40.00	12.90	952486.301	699298.929	952494.699	699295.738
C13	52.19	50.00	59.81	952427.992	699358.506	952453.639	699315.756
C14	114.00	50.00	130.63	952427.196	699371.409	952342.557	699404.462
C15	60.48	40.00	86.63	952410.248	699521.947	952407.663	699467.129



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 8777 E Via de Ventura, Ste 398
 Scottsdale, AZ 85258
 phone: 480-718-1896
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Scott M. Van Gompel
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)
 55085
 SCOTT M. VAN GOMPEL
 LICENSED 3-19-18
 ARIZONA, U.S.A.
 Expires 9-30-19

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**SCOTTSDALE AIRPORT
 DELTA APRON RECONSTRUCTION**

15255 N. AIRPORT DRIVE
 SCOTTSDALE, AZ 85260

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SHEET CONTENTS
MARKING PLAN

SHEET NO. 29 of 36

C-652

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**SCOTTSDALE AIRPORT
DELTA APRON RECONSTRUCTION**
 15255 N. AIRPORT DRIVE
 SCOTTSDALE, AZ 85260

ISSUED

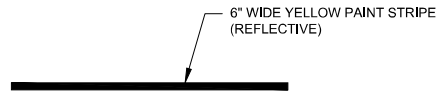
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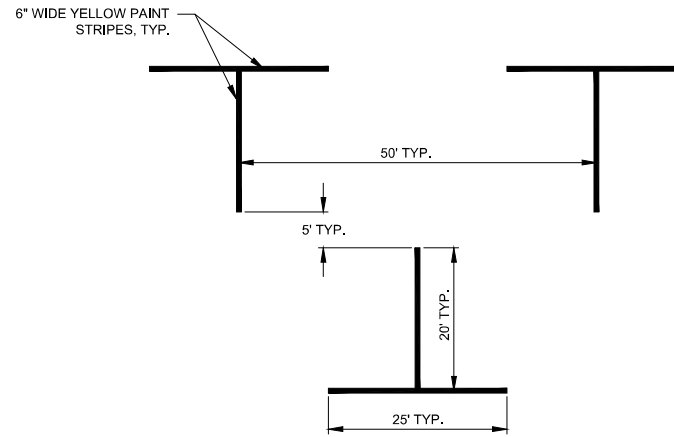
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MARKING DETAILS

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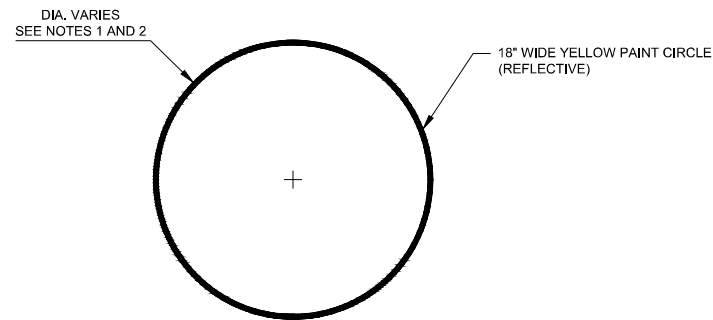
C-671



A TAXILANE CENTERLINE MARKING
NO SCALE

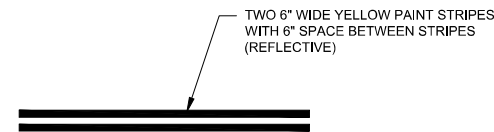


B TIE-DOWN MARKING
NO SCALE

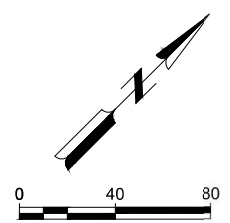
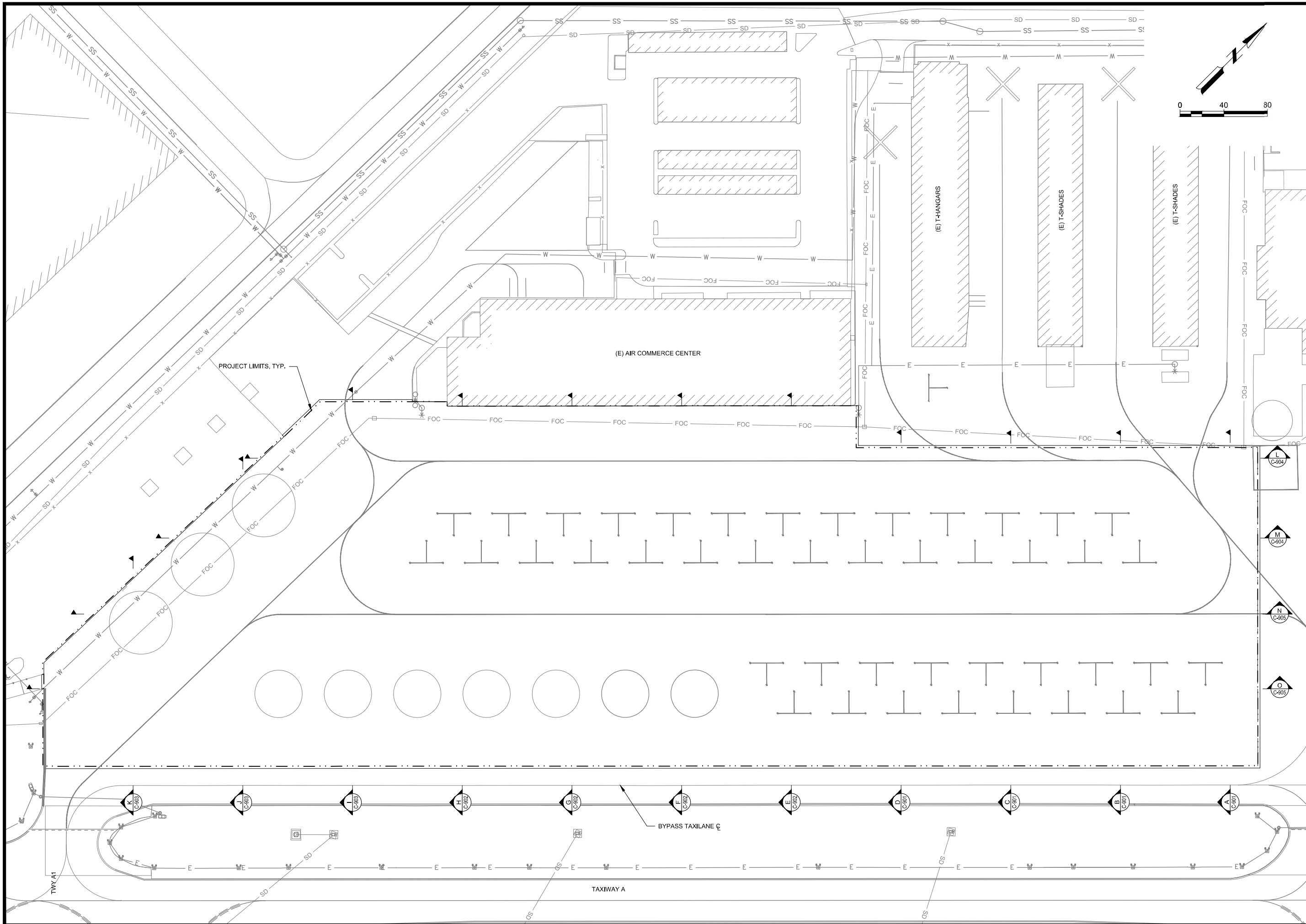


- NOTES:
1. DIAMETER OF HELIPAD MARKING FOR ROBINSON R-44 HELICOPTER IS 57.5'.
 2. DIAMETER OF HELIPAD MARKING FOR ROBINSON R-22 HELICOPTER IS 43.5'.

C HELIPAD MARKING
NO SCALE



D CONTINUOUS TAXILANE EDGE MARKING
NO SCALE



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**SCOTTSDALE AIRPORT
 DELTA APRON RECONSTRUCTION**
 15255 N. AIRPORT DRIVE
 SCOTTSDALE, AZ 85260

ISSUED

L C-904
 M C-904
 N C-905
 O C-905

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 DRAWN BY: BJM
 CHECKED BY: SVG

SHEET CONTENTS
 APRON CROSS SECTIONS

SHEET NO: 31 of 36
C-900

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SCOTTSDALE AIRPORT DELTA APRON RECONSTRUCTION

15255 N. AIRPORT DRIVE
SCOTTSDALE, AZ 85260

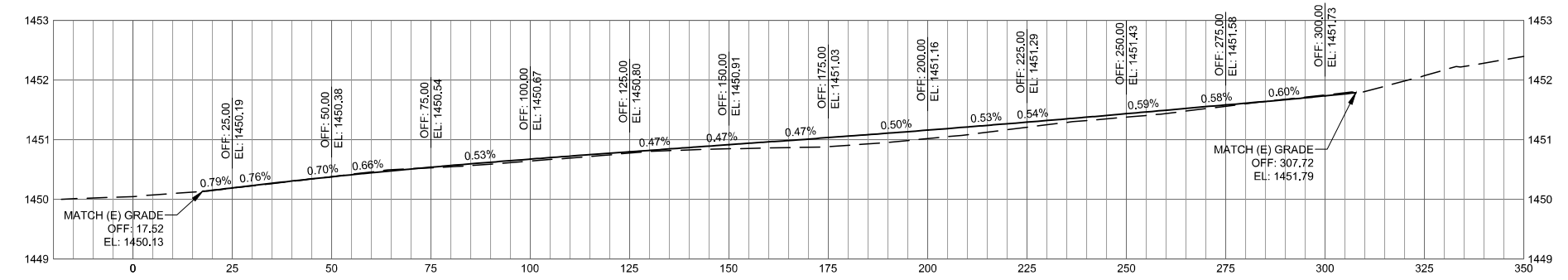
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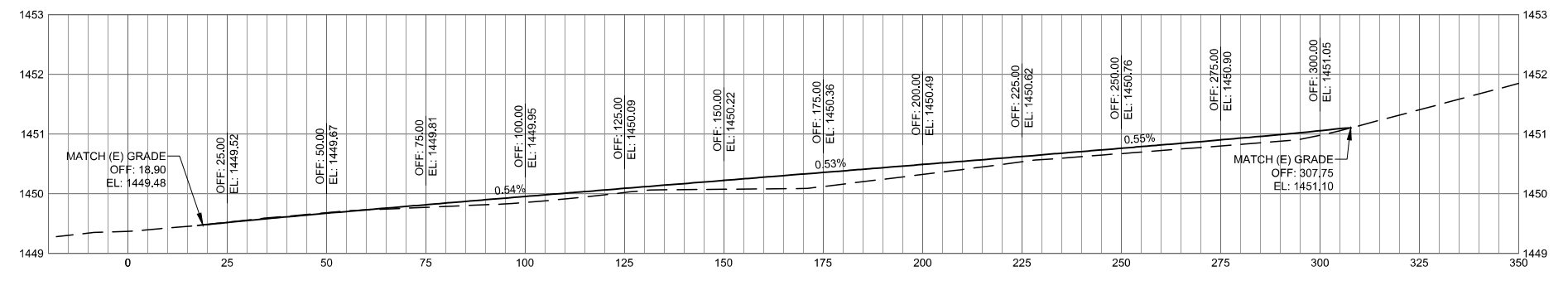
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SHEET NO. 32 of 36

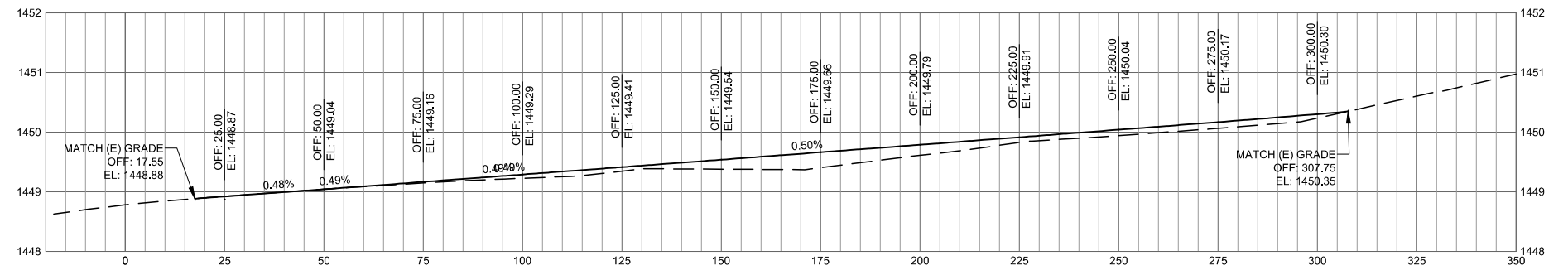
C-901



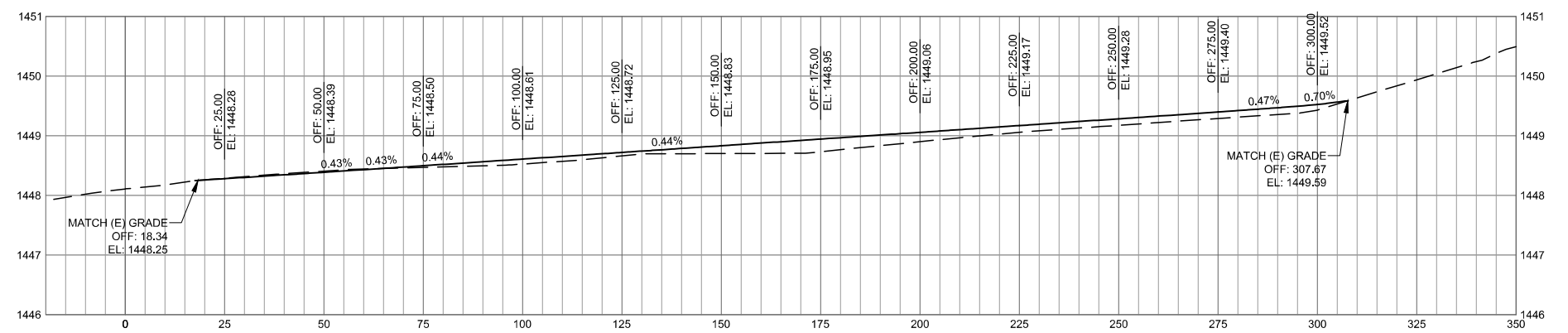
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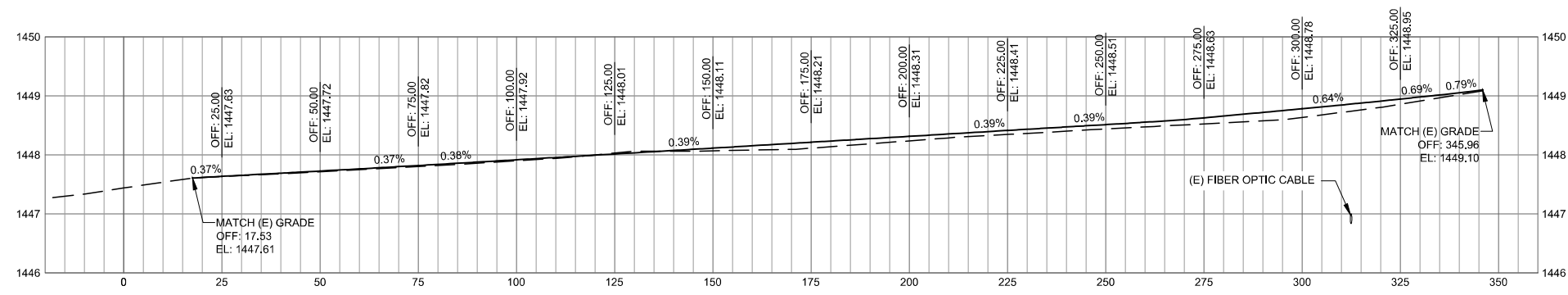
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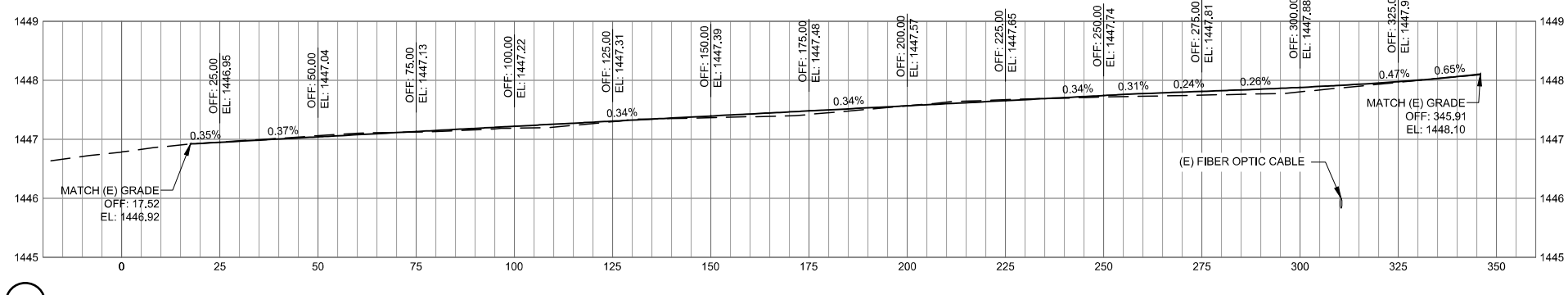
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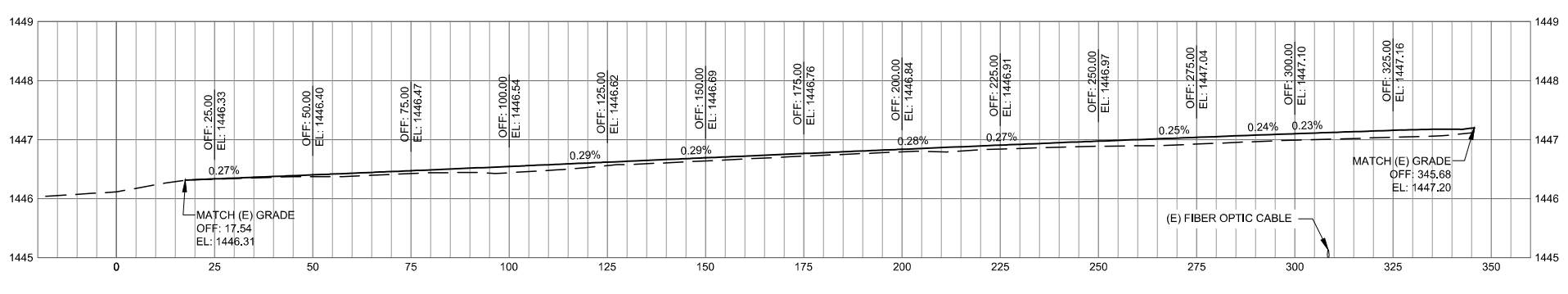
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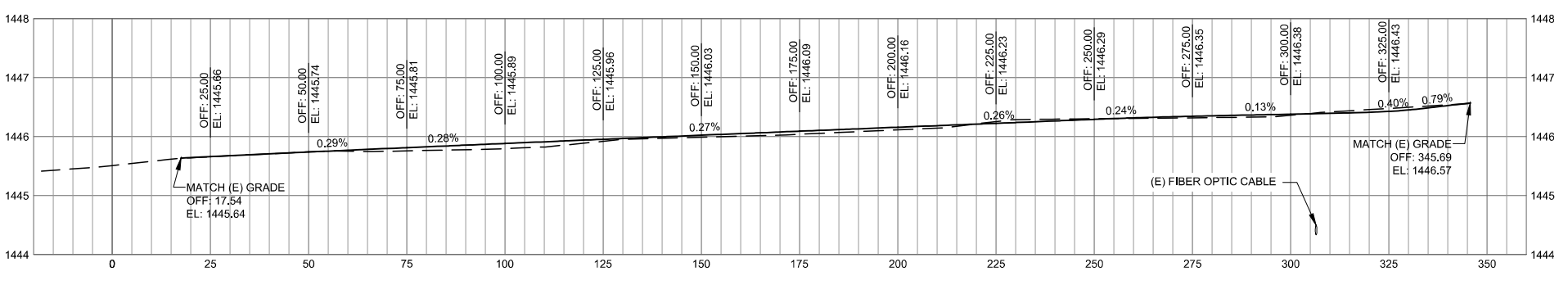
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F



G



H

SCOTTSDALE AIRPORT DELTA APRON RECONSTRUCTION

15255 N. AIRPORT DRIVE
SCOTTSDALE, AZ 85260

ISSUED

BID SET	
AP NO.:	3-04-0032-036-2018
M&H NO.:	2886300-172363.01
DATE:	MARCH 19, 2018
DESIGNED BY:	DPS
DRAWN BY:	BJM
CHECKED BY:	SVG

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C-902



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SCOTTSDALE AIRPORT DELTA APRON RECONSTRUCTION

15255 N. AIRPORT DRIVE
SCOTTSDALE, AZ 85260

ISSUED

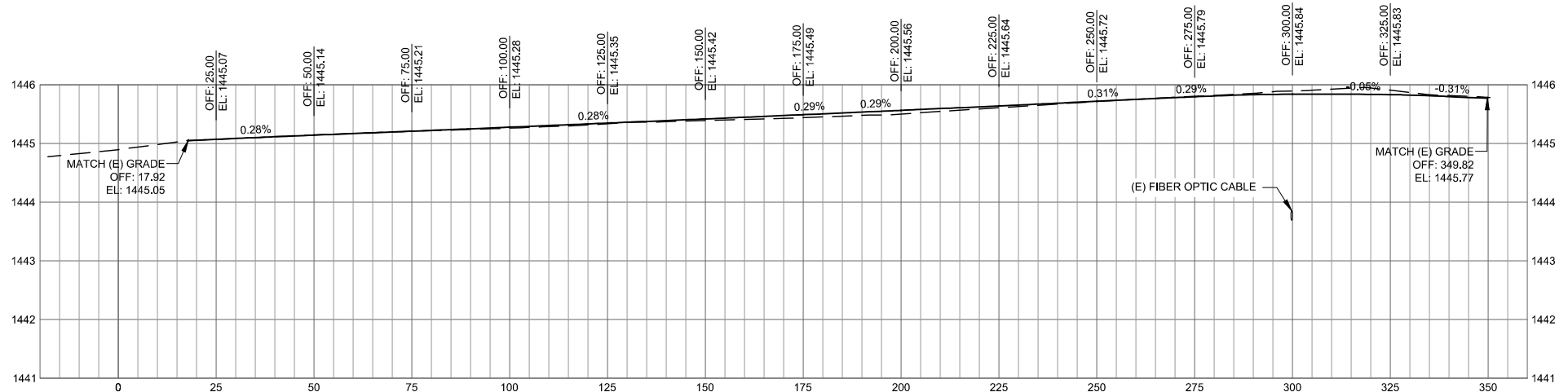
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AP NO: 3-04-0032-036-2018
MH NO: 2886300-172363.01
DATE: MARCH 19, 2018
DESIGNED BY: DPS
DRAWN BY: BJM
CHECKED BY: SVG

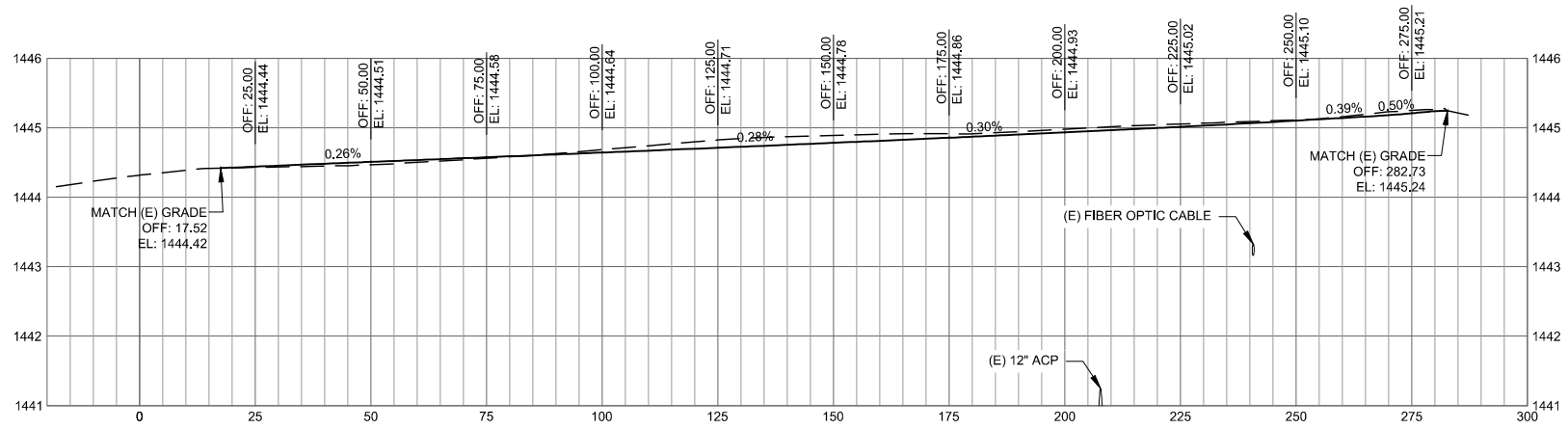
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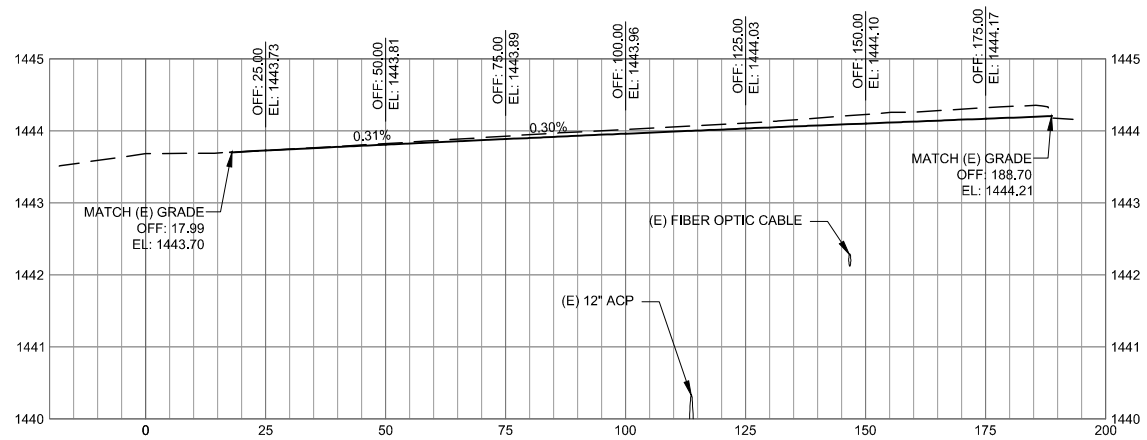
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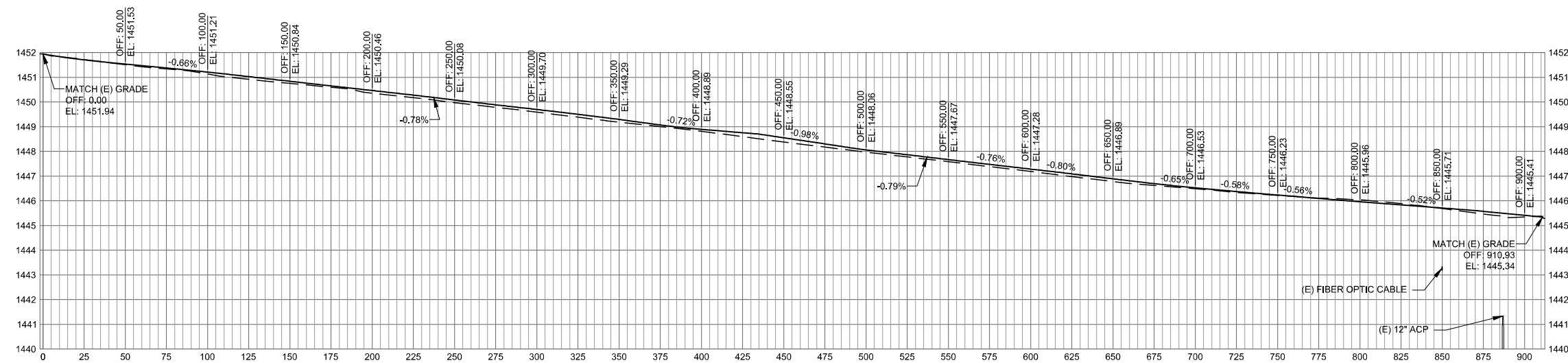
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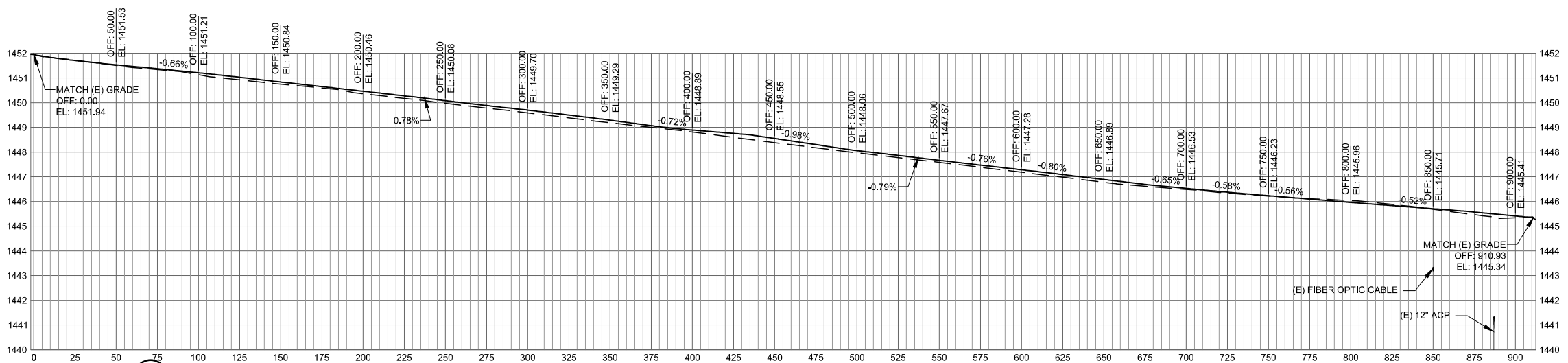
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L



M

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MH NO.: 2886300-172363.01
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SHEET CONTENTS
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C-904



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 MH NO.: 2886300-172363.01
 DATE: MARCH 19, 2018
 DESIGNED BY: DPS
 DRAWN BY: BJM
 CHECKED BY: SVG

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 APRON CROSS SECTIONS

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