

# CITY OF UKIAH

## RUNWAY 15-33 PAVEMENT REHABILITATION PHASE 1

### UKIAH MUNICIPAL AIRPORT

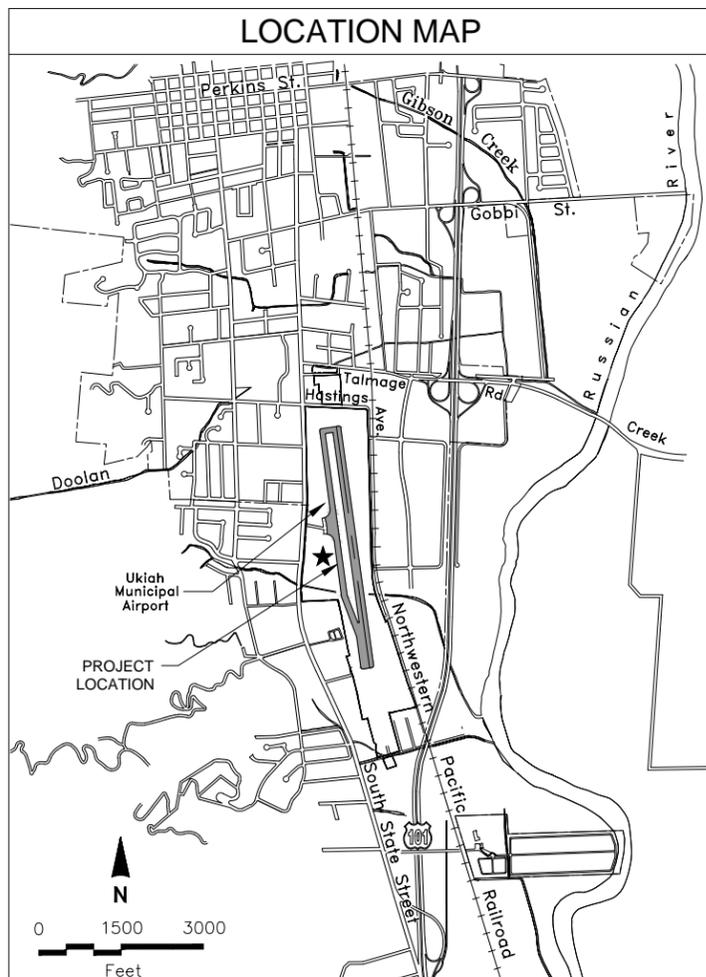
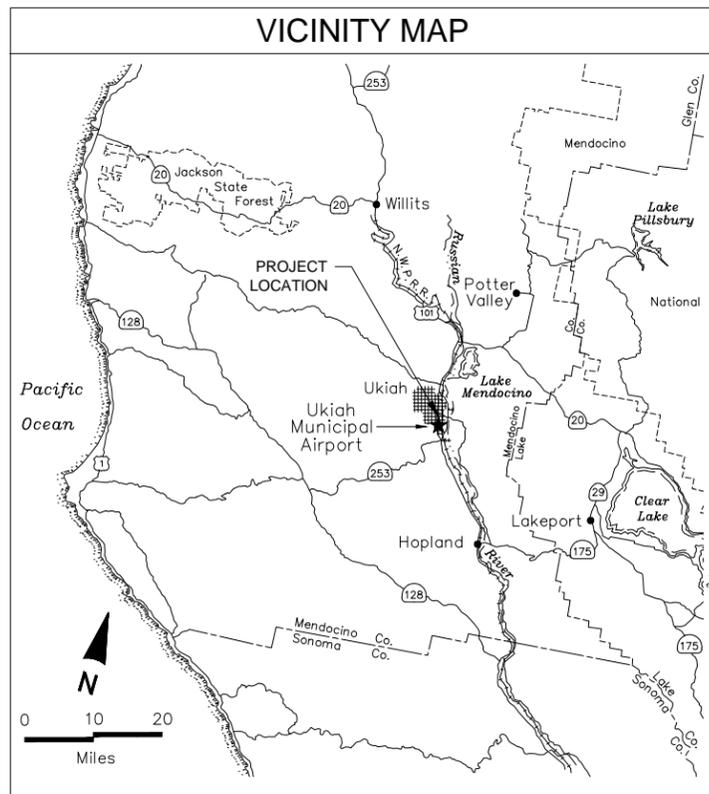
### UKIAH, CALIFORNIA

JUNE 2019

AIP NO. 3-06-0268-027-2019



MENDOCINO COUNTY



#### PROJECT DESCRIPTION

- DEMOLISH TAXIWAY B
- DEMOLISH AND CONSTRUCT NEW KEEL SECTION RUNWAY 15-33
- CONSTRUCT NEW TAXIWAY A2 CONNECTOR
- INSTALL NEW LED MEDIUM INTENSITY TAXIWAY EDGE LIGHTS
- INSTALL NEW LED MEDIUM INTENSITY THRESHOLD LIGHTS
- RELOCATE EXISTING RUNWAY END IDENTIFIER LIGHTS

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DATE SIGNED: 06/07/19

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**RUNWAY 15-33 PAVEMENT**  
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**UKIAH, CALIFORNIA**

ISSUED  
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AP NO.: 3-06-0268-027-2019  
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 DRAWN BY: JML  
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SHEET CONTENTS  
 COVER SHEET

SHEET NO. 1 of 30

**G-001**



Know what's below.  
 Call before you dig.

**LEGEND:**

	BENCHMARK
	AOA BARRICADE
	CONTROL POINT
	BARRIER, JERSEY
	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
	FLAGPOLE
	FUEL SHUT OFF VALVE
	FUEL VENT PIPE
	GAS MANHOLE
	GAS METER
	GAS VALVE
	GAS VENT PIPE
	GATE
	GUY ANCHOR
	HANDHOLE, GENERIC
	IRON PIN
	LIGHT BOLLARD
	FLOODLIGHT POLE
	LIGHT POLE (SINGLE)
	LIGHT POLE (DOUBLE)
	MARKER, CABLE
	MARKER, DUCT
	MONITORING WELL
	PIEZOMETER
	POWER POLE
	POWER POLE, DOUBLE
	POWER POLE WITH LIGHT
	SANITARY SEPTIC TANK VALVE
	SANITARY SEWER LIFT STATION
	SANITARY SEWER MANHOLE
	SANITARY SEWER VALVE
	SANITARY SEWER WET WELL
	SIGN (SINGLE POST)
	SIGN (DOUBLE POST)
	SOIL BORING
	STORM INLET, CURB
	STORM INLET, ROUND
	STORM INLET, SQUARE
	STORM FLARED END SECTION
	STORM SEWER 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

(SEE X-XXX)	SHEET REFERENCE
(SEE XX-XXX)	DETAIL REFERENCE
734.97'	EXISTING SPOT ELEVATION
738.76'	FINISHED / PROPOSED SPOT ELEVATION
3:1	FINISHED / PROPOSED SLOPE
2%	FINISHED / PROPOSED SLOPE
	BOUNDARY (PROJECT /CONSTRUCTION LIMITS)
	BOUNDARY 2 (PROJECT /CONSTRUCTION LIMITS)
CON	CONDUIT, GENERIC
E	ELECTRIC, UNDERGROUND
	EXISTING CONTOUR LINES
	PROPOSED CONTOUR LINES
x	FENCE
GB	GRADE BREAK
	GRADING LIMITS
	HAUL or TRAFFIC ROUTE
	PROPERTY LINE
ROW	RIGHT-OF-WAY
SS	SANITARY SEWER
	SILT FENCE
SSSSSSSSSSSSSSSS	SEDIMENT LOG
SD	STORM SEWER / CULVERT
	SWALE
	SWALE
W	WATER
WB	WETLAND BOUNDARY
	VEGETATION
E-RWY	EXISTING RUNWAY ELECTRICAL
E-TWY	EXISTING TAXIWAY ELECTRICAL
	MARKING REMOVAL
RWY	RUNWAY ELECTRICAL
TWY	TAXIWAY ELECTRICAL
CP	COUNTERPOISE
PAPI	PAPI ELECTRICAL

**LEGEND:**

	AGGREGATE BASE COURSE, EXISTING
	AGGREGATE BASE COURSE, PROPOSED
	SHOULDER MATERIAL (RECYCLED AC/AB)
	PAVEMENT RECONSTRUCTION
	NEW PAVEMENT CONSTRUCTION
	EMULSIFIED ASPHALT SEAL COAT
	CONCRETE
	GROUND, EXISTING
	GROUND, PROPOSED
	RESTORATION AREA
	WETLAND
	MARKING REMOVAL
	PAVEMENT REMOVAL - FULL DEPTH REMOVAL

**EXISTING**

**LEGEND:**

	BASE CAN L-867
	BASE CAN
	MIRL (ELEVATED BASE MOUNTED)
	MIRL (ELEVATED STAKE MOUNTED)
	MIRL (INSET)
	MITL (ELEVATED BASE MOUNTED)
	MITL (ELEVATED STAKE MOUNTED)
	PAPI
	REIL
	RETROREFLECTOR
	SEQUENCE FLASH
	TDZ
	VASI
	ANTENNA
	CABLE MARKER
	DUCT MARKER
	GROUNDING LUG
	TIEDOWN
	WINDCONE
	DISTANCE REMAINING SIGN
	GUIDANCE SIGN
	CONDUIT LABEL (CABLE QTY & CIRCUIT NAME)
	AIRFIELD RATED ELECTRIC MANHOLE

**PROPOSED**

**LEGEND:**

	BASE CAN L-867
	BASE CAN
	MIRL (ELEVATED BASE MOUNTED)
	MIRL (ELEVATED STAKE MOUNTED)
	MIRL (INSET)
	MITL (ELEVATED BASE MOUNTED)
	MITL (ELEVATED STAKE MOUNTED)
	PAPI
	REIL
	RETROREFLECTOR
	SEQUENCE FLASH
	TDZ
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	ANTENNA
	CABLE MARKER
	DUCT MARKER
	GROUNDING LUG
	TIEDOWN
	WINDCONE
	DISTANCE REMAINING SIGN
	GUIDANCE SIGN
	CONDUIT LABEL (CABLE QTY & CIRCUIT NAME)
	AIRFIELD RATED ELECTRIC MANHOLE

**ABBREVIATIONS**

AB	AGGREGATE BASE	FL	FLOW LINE	PVC	POINT OF VERTICAL CURVE
AC	ASPHALT CONCRETE	FPS	FEET PER SECOND	PVC	POLYVINYL CHLORIDE
ALT	ALTERNATE	FT	FEET	PVI	POINT OF VERTICAL INTERSECTION
AOA	AIRCRAFT OPERATIONS AREA	G	GAS LINE	PVT	POINT OF VERTICAL TANGENCY
APCH	APPROACH	GAL	GALLON	Q	RATE OF FLOW
APPROX	APPROXIMATE	GALV	GALVANIZED	QTY	QUANTITY
ASB	AGGREGATE SUB-BASE	GB	GRADE BREAK	R	RADIUS
AR	ACCESS ROAD	GND	GROUND	R&R	REMOVE AND REPLACE
ATCT	AIR TRAFFIC CONTROL TOWER	GPM	GALLONS PER MINUTE	RC	RELATIVE COMPACTION
AWG	AMERICAN WIRE GAUGE	GS	GROUND SHOT	RCP	REINFORCED CONCRETE PIPE
AWOS	AUTOMATED WEATHER OBSERVING SYSTEMS	H	HEIGHT	REIL	RUNWAY END IDENTIFIER LIGHTS
BC	BEGINNING OF CURVE	HDPE	HIGH DENSITY POLYETHYLENE	REQ	REQUIRED
BIT	BITUMINOUS	HIRL	HIGH INTENSITY RUNWAY LIGHT	ROW	RIGHT OF WAY
BLDG	BUILDING	HIR,THL	HIGH INTENSITY THRESHOLD LIGHT	RWA	RUNWAY WORK RESTRICTED AREA
DM	BENCHMARK	HORIZ	HORIZONTAL	RWY	RUNWAY
BOT	BOTTOM	HP	HIGH POINT	S	SANITARY LINE
BVC	BEGINNING OF VERTICAL CURVE	HW	HEADWALL	SF	SQUARE FOOT
C-C	CENTER TO CENTER	HWL	HIGH WATER LEVEL	SG	STRAIGHT GRADE
CB	CATCH BASIN	HWY	HIGHWAY	SH	SHOULDER
CIPCP	CAST IN-PLACE CONCRETE PIPE	IE	INVERT ELEVATION	SIDA	SECURITY IDENTIFICATION DISPLAY AREA
CJ	CONSTRUCTION JOINT	IN	INCHES	SMGS	SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM
CFS	CUBIC FEET PER SECOND	L	LENGTH	SS	STAINLESS STEEL
CL	CENTERLINE	LBS	POUNDS	ST	STORM LINE
CLF	CHAINLINK FENCE	LF	LINEAL FEET	STA	STATION
CLR	CLEAR	LWL	LOW WATER LEVEL	STD	STANDARD
CMP	CORRUGATED METAL PIPE	MAX	MAXIMUM	STL	STEEL
CO	CLEANOUT	MID	MID POINT	T	TELEPHONE LINE
CONC	CONCRETE	MIN	MINIMUM	TC	TOP OF CURB
CONT	CONTINUOUS	MIRL	MEDIUM INTENSITY RUNWAY LIGHT	TG	TOP OF GRATE
CRGO	CARGO	MITL	MEDIUM INTENSITY TAXIWAY LIGHT	TL	TAXILINE
CP	CONTROL POINT	MPH	MILES PER HOUR	TOE	TOE OF BANK
CTB	CEMENT TREATED BASE	(N)	NEW	TOP	TOP OF BANK
DB	DIRECT BURIAL	NOTMA	NOTICE TO AIRMAN	TWY	TAXIWAY
DEG	DEGREE	NTS	NOT TO SCALE	TYP	TYPICAL
DEMO	DEMOLITION	OC	ON CENTER	UD	UNDERDRAIN
DI	DROP INLET	OH	OVERHEAD	UG	UNDERGROUND
DIA	DIAMETER	NTS	NOT TO SCALE	UON	UNLESS OTHERWISE NOTED
DIM	DIMENSION	OC	ON CENTER	V	VELOCITY
DIP	DUCTILE IRON PIPE	OH	OVERHEAD	VASI	VISUAL APPROACH SLOPE INDICATOR
DP	DEPTH	OWS	OIL WATER SEPERATOR	VC	VERTICAL CURVE
(E)	EXISTING	PAPI	PRECISION APPROACH PATH INDICATOR	VERT	VERTICAL
E	ELECTRICAL LINE	PB	PULL BOX	VIF	VERIFY IN FIELD
E	ELECTRICAL LINE	PC	POINT OF CURVATURE	W	WATER LINE
EC	END OF CURVE	PCC	PORTLAND CEMENT CONCRETE	W/	WITH
EG	EXISTING GRADE	PCF	POUNDS PER CUBIC FOOT	W/O	WITHOUT
ELEV	ELEVATION	PERF	PERFORATED	WSE	WATER SURFACE ELEVATION
EOP	EDGE OF PAVEMENT	PI	POINT OF INTERSECTION	WSP	WELDED STEEL PIPE
EVC	END OF VERTICAL CURVE	POB	POINT OF BEGINNING	WV	WATER VALVE
FAA	FEDERAL AVIATION ADMINISTRATION	POC	POINT OF CURVE	WWM	WELDED WIRE MESH
FBO	FIXED BASE OPERATOR	POE	POINT OF ENDING		
FF	FINISHED FLOOR	PSI	POUNDS PER SQUARE INCH		
FG	FINISHED GRADE	PSF	POUNDS PER SQUARE FOOT		
FH	FIRE HYDRANT	PT	POINT OF TANGENCY		

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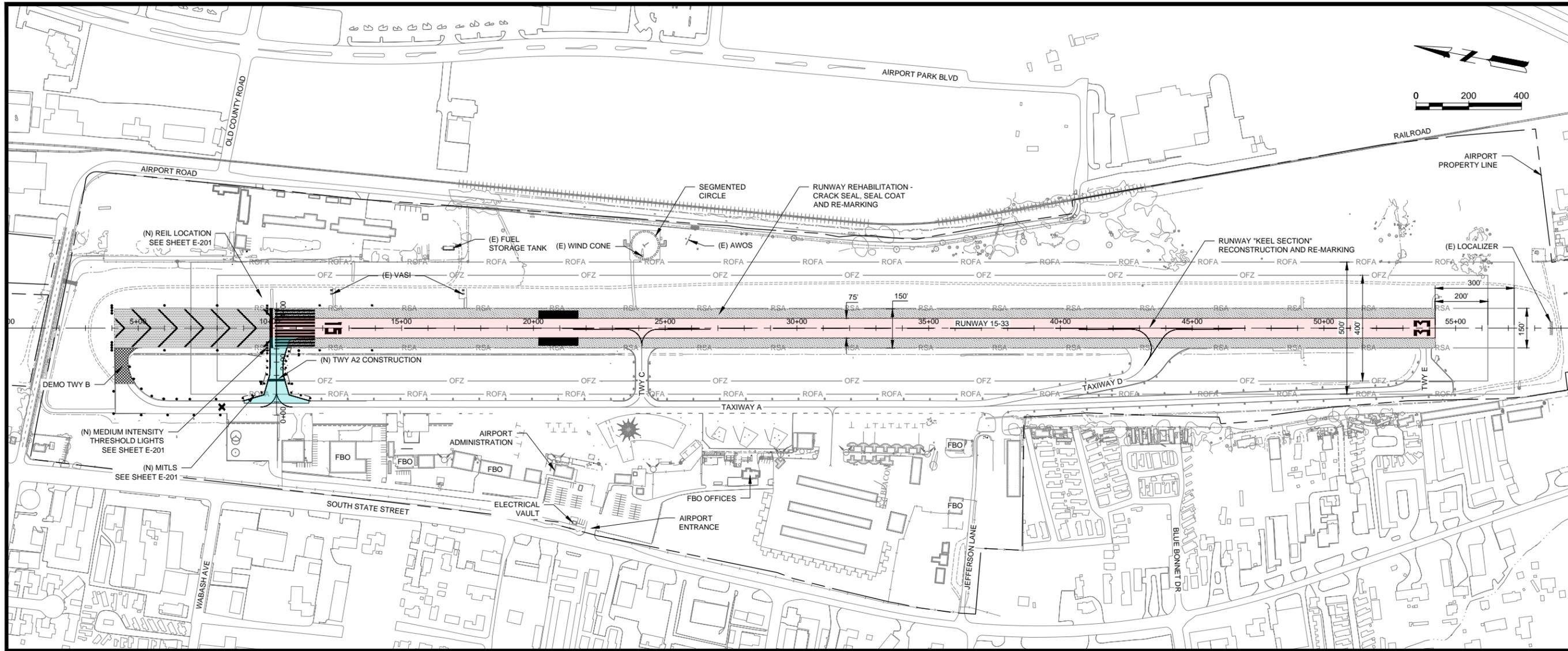
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SHEET CONTENTS  
**LEGEND & ABBREVIATIONS**

SHEET NO. 2 of 30

**G-002**



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**GENERAL NOTES**

- ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THESE PLANS SHALL BE IN ACCORDANCE WITH FAA STANDARD SPECIFICATIONS AND AS SUPPLEMENTED PER CALTRANS OR THE CITY UNLESS SPECIFIED OTHERWISE. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL REQUIRED STANDARD SPECIFICATIONS, DETAILS AND SUPPLEMENTS PRIOR TO PERFORMING THE WORK ASSOCIATED WITH THESE PLANS. IF IN CONFLICT, FAA SPECIFICATIONS SHALL TAKE PRECEDENCE OVER ANY OTHER SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, SEQUENCING AND SAFETY MEASURES USED DURING CONSTRUCTION UNLESS SPECIFICALLY ADDRESSED OTHERWISE.
- PER THE CONSTRUCTION SAFETY AND PHASING PLAN, THE CONTRACTOR SHALL SUBMIT A SCHEDULE TO CITY OF UKIAH AND THE ENGINEER PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL PRESENT THE SCHEDULE DURING THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING THE BASELINE SCHEDULE AND PRESENTING UPDATES AT THE WEEKLY CONSTRUCTION COORDINATION MEETING. CLOSE COORDINATION WITH THE CITY OF UKIAH, AIRPORT OPERATIONS AND FAA WILL BE REQUIRED THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL BE ACTIVELY INVOLVED IN MONITORING CONSTRUCTION SCHEDULE AND HOW IT RELATES TO THE REQUIRED FAA MILESTONES FOR FLIGHT CHECKS OPERATIONS AND PROCEDURES.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS APPLICABLE TO THE CONSTRUCTION COVERED BY THE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE THE WORK COVERED BY THE PLANS AND SPECIFICATIONS.
- 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 USA NORTH (811) 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.
- THE CONTRACTOR SHALL VERIFY LOCATION AND CONDITION OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING PRIOR TO COMMENCEMENT OF CONSTRUCTION. SHOULD DISCREPANCIES 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/CONTINUATION OF CONSTRUCTION.
- DISPOSAL OF EXCAVATION MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUITABLE UNCLASSIFIED EXCAVATION MATERIAL, AS DEFINED IN SPECIFICATION ITEM P-152, SHALL BE PLACED IN THE DESIGNATED SPOILS AREA, COMPACTED TO 95% RELATIVE COMPACTION, AND GRADED TO DRAIN. ANY UNSUITABLE MATERIAL OR PAVEMENT REMOVAL SHALL BE REQUIRED TO BE HAULED AND DISPOSED OFFSITE AT A LEGAL DUMPING SITE. ALL COSTS ASSOCIATED WITH OFF HAUL (INCLUDING 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 THROUGHOUT THE AIRPORT. CONTRACTOR'S ACCESS AND TRAFFIC CONTROL PLAN SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SAFETY AND PHASING PLAN AND APPROVED BY THE AIRPORT AND ENGINEER.
- TRAFFIC CONTROL DEVICES AND METHODS SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF CALIFORNIA MANUAL OF TRAFFIC CONTROL (MUTCD), LATEST EDITION.
- THE CONTRACTOR SHALL PROTECT ALL FAA FACILITIES, AIRFIELD SIGNAGE, LIGHTING AND SECURITY EQUIPMENT WITHIN PROJECT LIMITS. DAMAGES TO EXISTING ELECTRICAL EQUIPMENT AND SIGNAGE SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- 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, SPILLS, AND DAMAGE ON THE PAVED SURFACES RESULTING FROM THE CONTRACTOR'S OPERATIONS.
- CONTRACTOR SHALL CALL "DIG ALERT", 811, AND HAVE UTILITY LOCATES IN PLACE AND POTHOLING PERFORMED PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL PROTECT EXISTING UTILITIES TO REMAIN THROUGHOUT CONSTRUCTION.
- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- BORROW SITES ARE NOT AVAILABLE FOR USE BY THE CONTRACTOR ON AIRPORT PROPERTY. ALL BORROW MATERIALS, TOPSOIL, OR OTHER SOIL MATERIAL, SHALL BE OBTAINED BY THE CONTRACTOR FROM COMMERCIAL SOURCES FROM OFF-SITE LOCATIONS.

**NOTES**

- SEE SHEETS C-081 FOR CONSTRUCTION SAFETY DETAILS, NOTES, CONSTRUCTION ACCESS, AND HAUL ROUTES.
- SEE SHEET E-051 THROUGH C-055 FOR AIRFIELD REMOVALS.
- SEE SHEETS C-101 THROUGH C-672 FOR AIRFIELD IMPROVEMENTS.
- SEE SHEETS E-101 FOR ELECTRICAL REMOVALS.
- SEE SHEETS E-201 THROUGH E-603 FOR ELECTRICAL IMPROVEMENTS.

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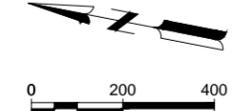
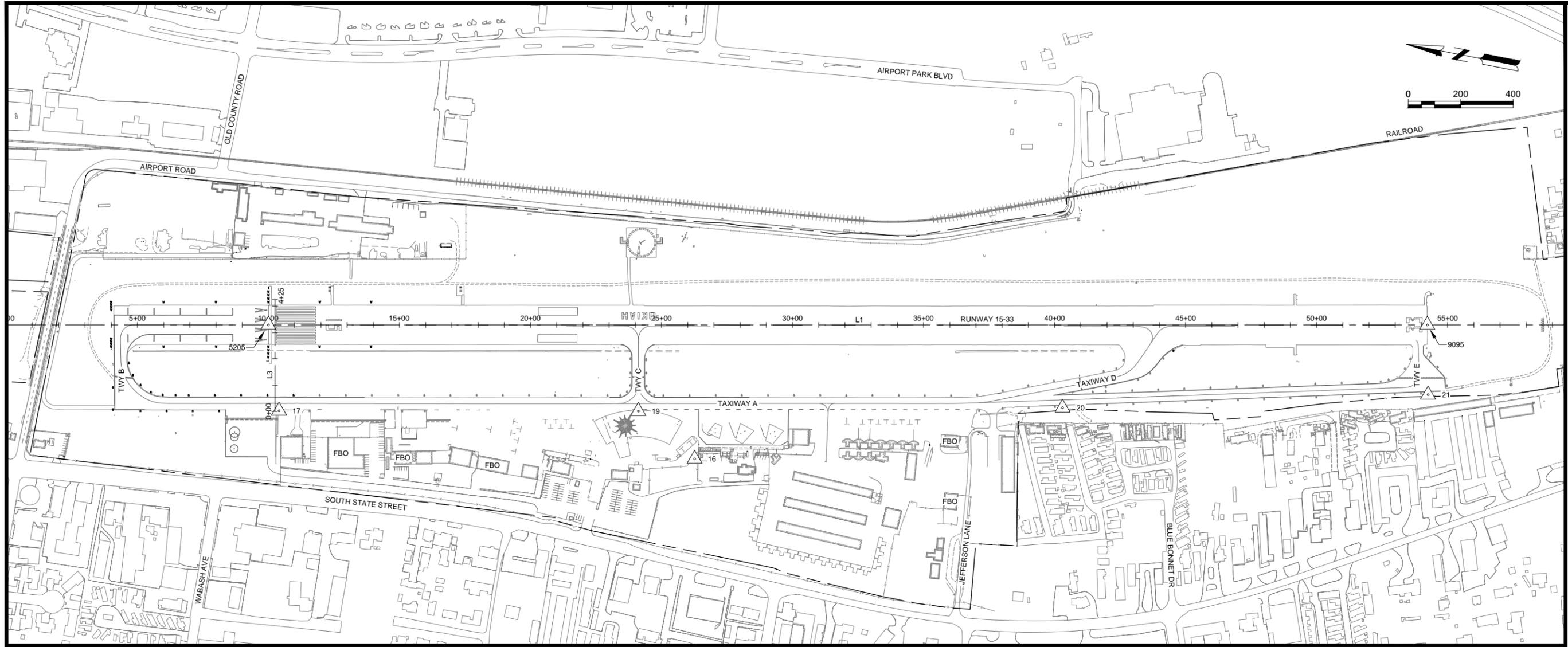
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SHEET CONTENTS  
PROJECT LAYOUT  
PLAN

SHEET NO. 3 of 30

**G-021**



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RUNWAY 15-33 ALIGNMENT LINE DATA							
LINE #	START STATION	START NORTHING	START EASTING	END STATION	END NORTHING	END EASTING	BEARING
L1	0+00.00	2177278.560	6220410.971	60+00.00	2171387.086	6221546.986	S10° 54' 50.51"E

CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
16	2174603.228	6220407.415	622.43	CPFP-100D
17	2176195.060	6220286.960	620.57	CP-REBAR & CAP
19	2174848.678	6220545.278	615.92	CP-CUTX
20	2173261.324	6220864.070	609.51	CP-REBAR & CAP
21	2171901.364	6221177.511	607.87	CP-REBAR & CAP
5205	2176296.648	6220600.307	616.78	FND-MAG/WASHER
9095	2171954.306	6221437.613	604.72	FND-MAG/WASHER

TAXIWAY A2 ALIGNMENT LINE DATA							
LINE #	START STATION	START NORTHING	START EASTING	END STATION	END NORTHING	END EASTING	BEARING
L3	0+00.00	2176209.796	6220281.925	4+25.00	2176290.264	6220699.238	N79° 05' 09.49"E

**BASIS OF SURVEY:**  
 BASIS OF BEARINGS (RUNWAY 33)  
 THE BEARING OF S 10°54'50.51" E, FROM GPS OBSERVATIONS,  
 BETWEEN FOUND POINT #5205 AND FOUND POINT #9095 WAS  
 USED AS THE BASIS OF BEARINGS FOR THIS MAP.  
  
 HORIZONTAL POSITIONS ARE BASED ON THE NAD 83 DATUM  
 (STATE PLANE COORDINATES, CALIFORNIA ZONE 2).

NOT FOR CONSTRUCTION

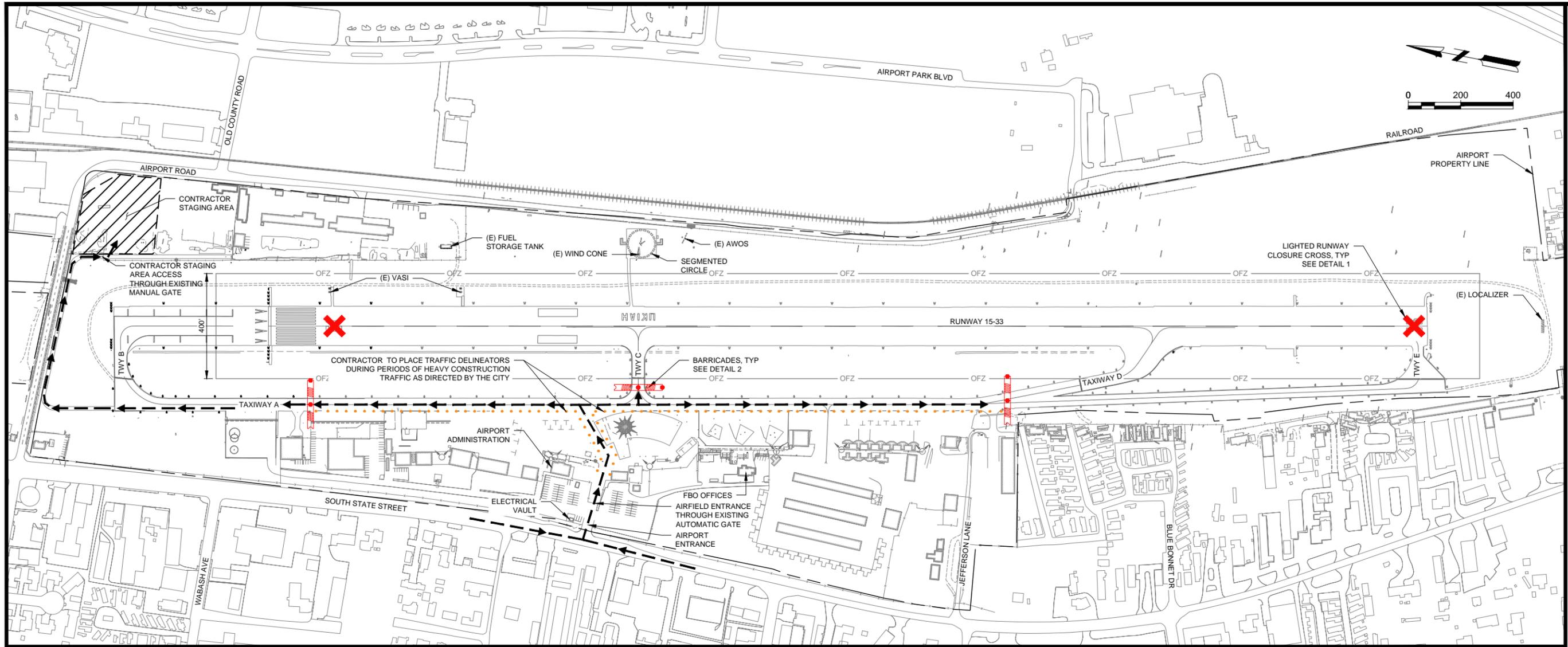
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SHEET CONTENTS  
 SURVEY CONTROL  
 PLAN

SHEET NO. 4 of 30

**G-041**

X:\21122001\60246.01\TECH\CAD\DRAWINGS\SURVEY CONTROL PLAN.DWG  
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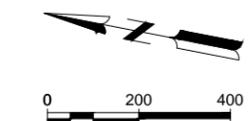
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DO NOT SCALE DRAWINGS

SHEET CONTENTS  
**CONSTRUCTION  
SAFETY & PHASING  
PLAN**

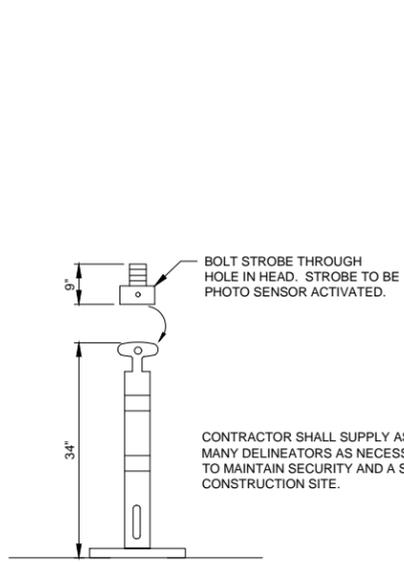
SHEET NO. 5 of 30

**G-081**

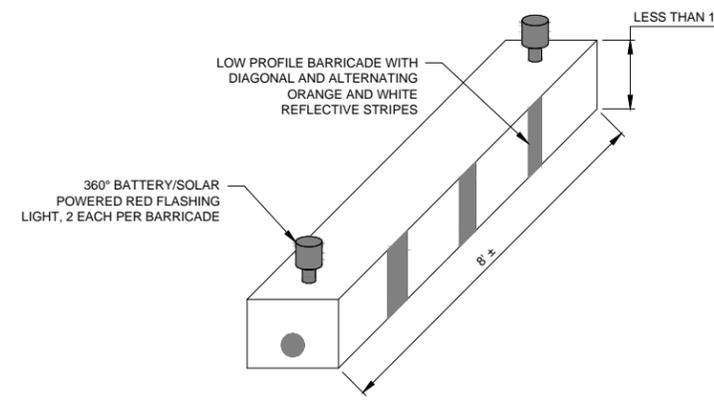


**LEGEND:**

- LIGHTED RUNWAY CLOSURE MARKER, PER DETAIL 1/G-081
- STAGING AREA
- HAUL ROUTE
- SPACED LOW-PROFILE BARRICADES, PER DETAIL 2/G-081
- INTERLOCKED LOW PROFILE BARRICADES
- TRAFFIC DELINEATORS

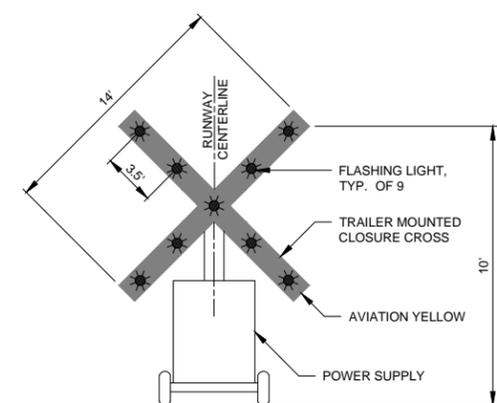


**3 CONSTRUCTION DELINEATOR DETAIL**  
NO SCALE



- NOTES:
1. THE AIRPORT HAS ±12 LOW PROFILE BARRICADES FOR THE CONTRACTOR'S USE. CONTRACTOR SHALL DETERMINE AND PROVIDE ANY ADDITIONAL LOW PROFILE BARRICADES AND LIGHTS NEEDED TO COMPLETE THE PROJECT ON THE PHASING REQUIREMENTS.
  2. CONTRACTOR SHALL VERIFY FLASHING LIGHTS ARE OPERATIONAL PRIOR TO LEAVING THE SITE, EACH DAY.
  3. CONTRACTOR SHALL INSPECT BARRICADES FOR WEAR AND TEAR WEEKLY, AND REPAIR OR REPLACE AS REQUIRED.
  4. LOW PROFILE BARRICADES SHALL BE PLACED A MAXIMUM OF 4 FEET APART, END TO END.

**2 LOW PROFILE BARRICADE DETAIL**  
NO SCALE

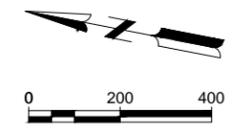
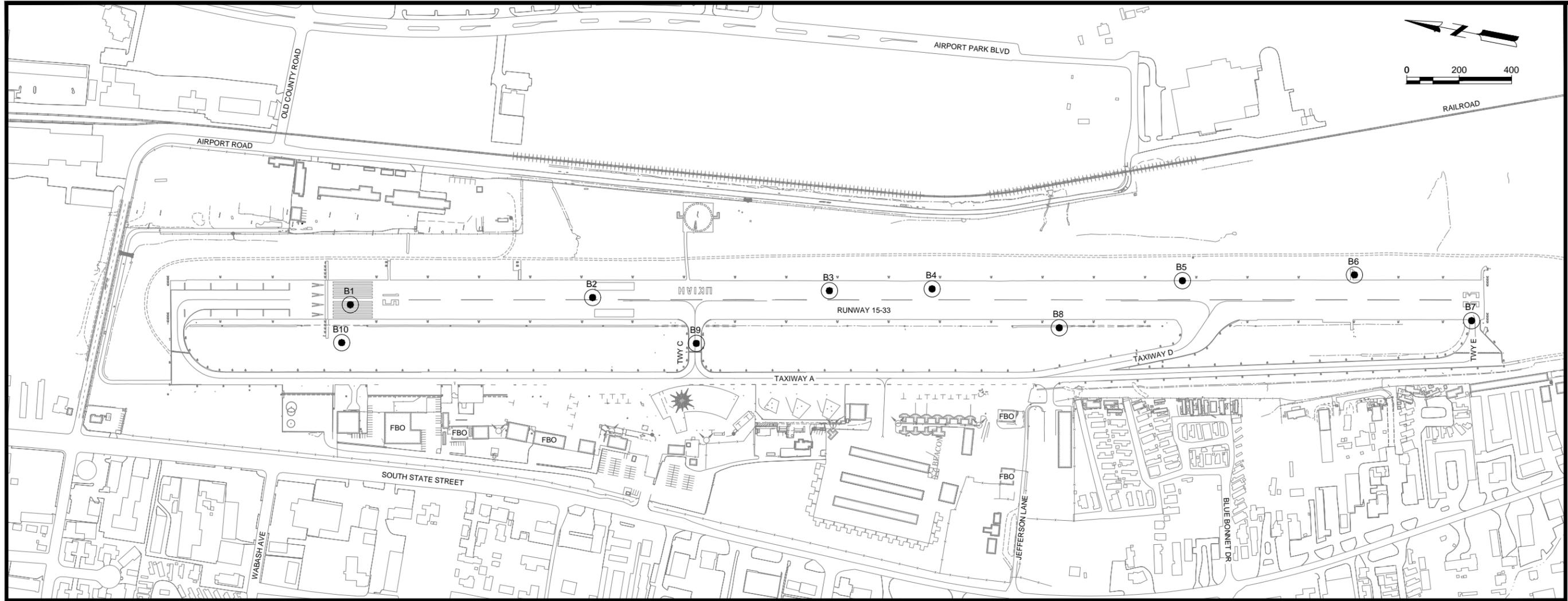


- NOTE:
1. TWO (2) LIGHTED, GENERATOR POWERED RUNWAY CLOSURE CROSSES WILL BE PROVIDED BY THE AIRPORT. THE RUNWAY CLOSURE CROSSES SHALL BE INSTALLED AND REMOVED BY THE CONTRACTOR DURING CONSTRUCTION PER THE SCHEDULE APPROVED BY THE COUNTY AND ENGINEER. THE EQUIPMENT SHALL BE FUELED, OILED AND MAINTAINED, INCLUDING BULB REPLACEMENT, BY THE CONTRACTOR THROUGHOUT THE PROJECT.

**1 LIGHTED RUNWAY CLOSURE CROSS**  
NO SCALE

- NOTE:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND REPAIRING ANY EXISTING PAVEMENTS AND/OR HAUL ROUTES DAMAGED BY CONSTRUCTION TRAFFIC THROUGHOUT THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY ADDITIONAL STABILIZATION OF ALL ACCESS ROAD AND HAUL ROUTES. ALL ACCESS AND HAUL ROUTES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

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**Mead & Hunt**  
 Mead and Hunt, Inc.  
 1360 19th Hole Drive,  
 Suite 200  
 Windsor, CA 95492  
 phone: 707-526-5010  
 meadhunt.com



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**CITY OF UKIAH  
 RUNWAY 15-33 PAVEMENT  
 REHABILITATION PHASE 1  
 UKIAH MUNICIPAL AIRPORT  
 UKIAH, CALIFORNIA**

ISSUED  
 06/12/19 BID SET

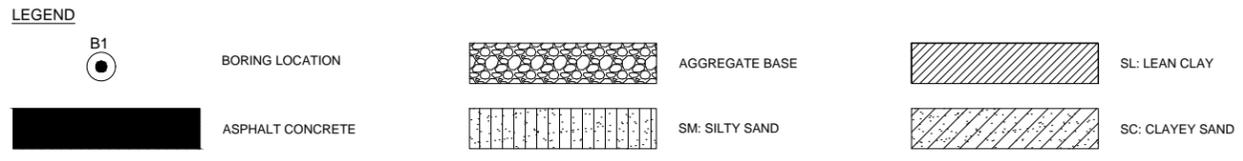
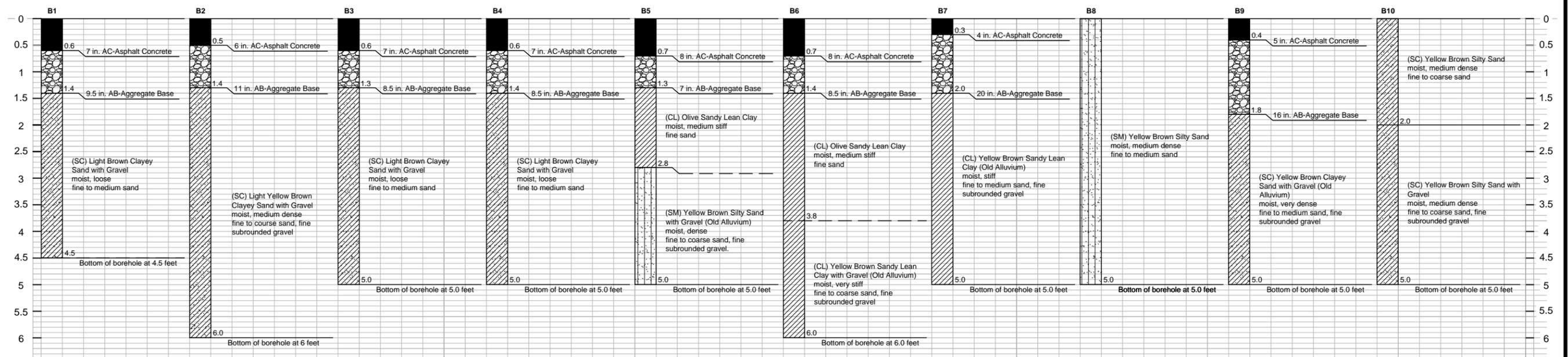
NOT FOR CONSTRUCTION

AP NO: 3-06-0268-027-2019  
 M&H NO: 2112200-160246.01  
 DATE: JUNE 2019  
 DESIGNED BY: KVG  
 DRAWN BY: TDB  
 CHECKED BY: DLA  
 DO NOT SCALE DRAWINGS

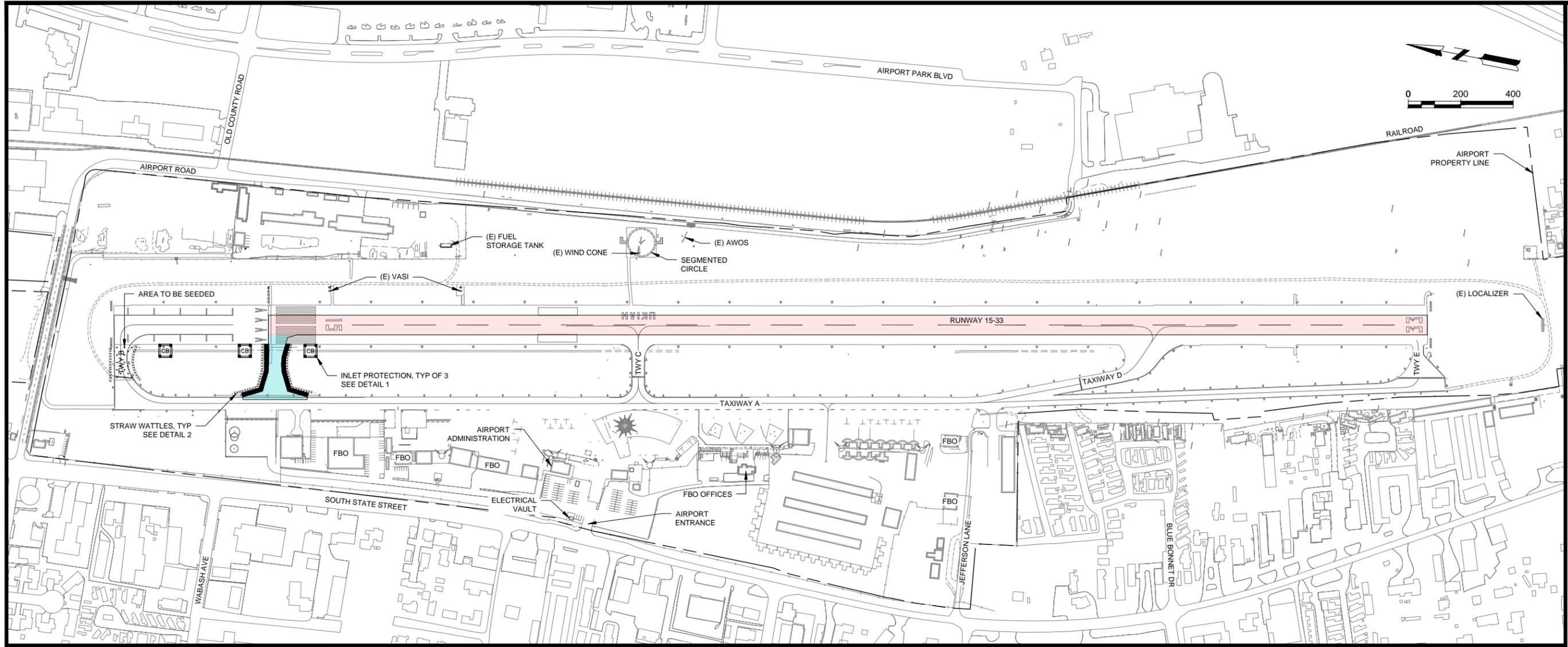
SHEET CONTENTS  
 BORING LOGS

SHEET NO. 6 of 30

**B-051**



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**CITY OF UKIAH  
RUNWAY 15-33 PAVEMENT  
REHABILITATION PHASE 1  
UKIAH MUNICIPAL AIRPORT  
UKIAH, CALIFORNIA**

ISSUED 06/12/19 BID SET

NOT FOR CONSTRUCTION

AP NO.: 3-06-0268-027-2019  
MSH NO.: 2112200-160246.01  
DATE: JUNE 2019  
DESIGNED BY: KVG  
DRAWN BY: JTH  
CHECKED BY: DLA  
DO NOT SCALE DRAWINGS

SHEET CONTENTS  
EROSION CONTROL PLAN

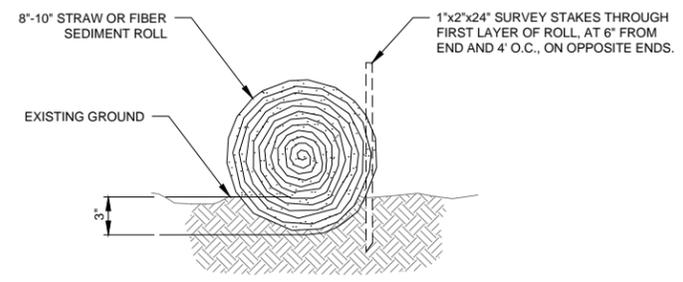
SHEET NO. 7 of 30

**C-021**

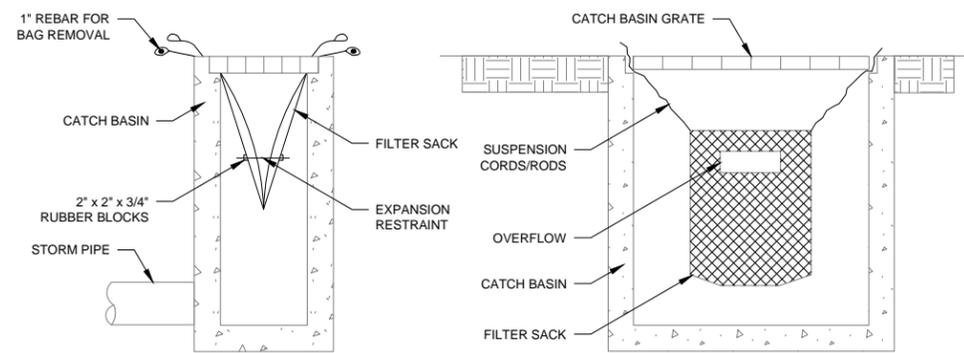
NOTE:  
CONTRACTOR TO PROVIDE STABILIZED  
CONSTRUCTION ENTRANCE. LOCATION AND  
TYPE TO BE APPROVED BY THE AIRPORT.

**LEGEND:**

-  INLET PROTECTION
-  EXISTING INLET
-  STRAW WATTLES
-  RESTORATION AREA



**2 STRAW WATTLES**  
NO SCALE



**1 FILTER FABRIC INLET PROTECTION**  
NO SCALE



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**CITY OF UKIAH  
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REHABILITATION PHASE 1  
UKIAH MUNICIPAL AIRPORT  
UKIAH, CALIFORNIA**

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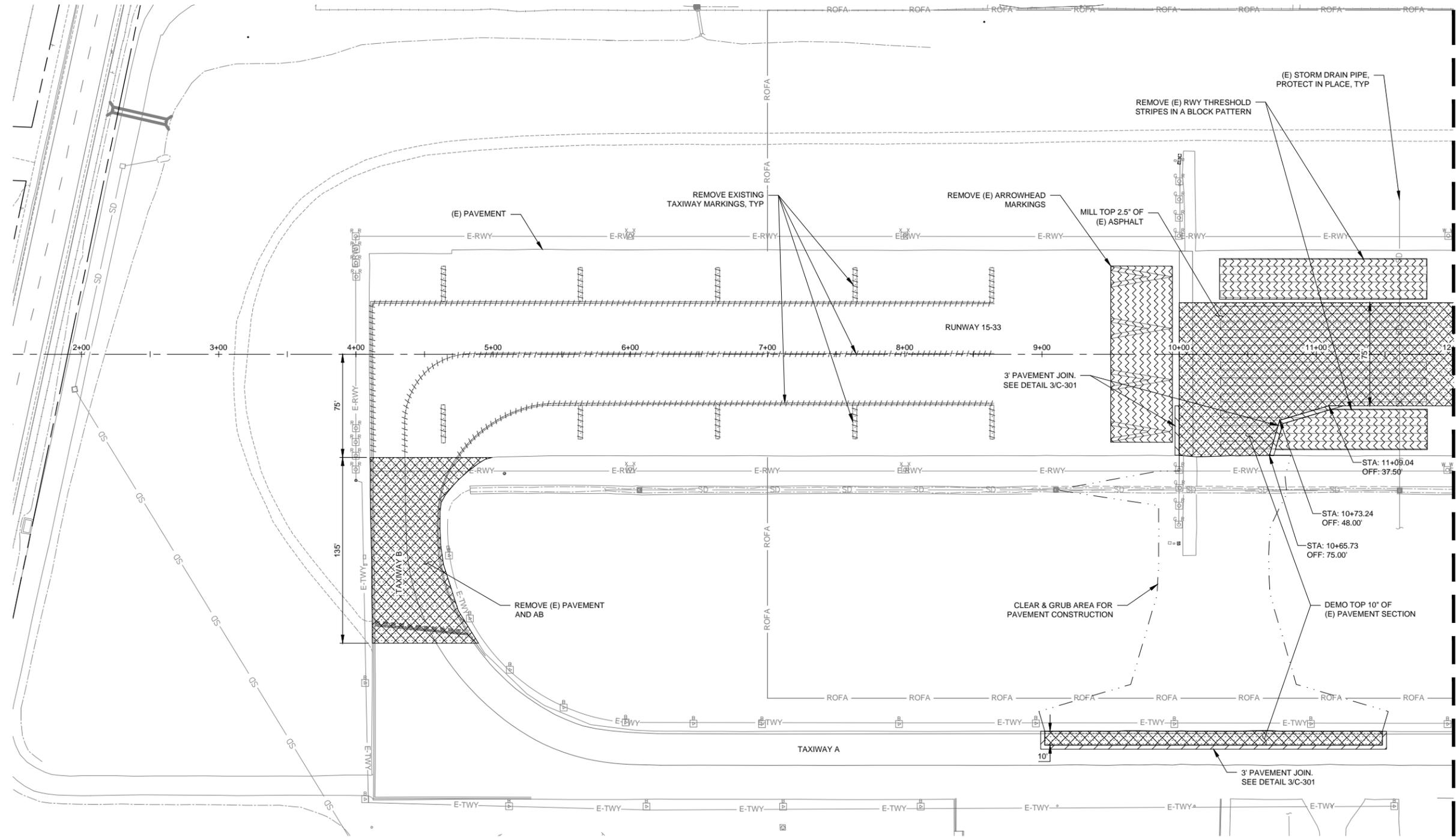
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AP NO.: 3-06-0268-027-2019  
MSH NO.: 2112200-160246.01  
DATE: JUNE 2019  
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SHEET CONTENTS  
DEMOLITION PLAN 1

SHEET NO. 8 of 30

**C-051**



**NOTES:**

- SEE SHEET E-101 FOR ELECTRICAL REMOVALS.
- PROPERLY DISPOSE OF MARKING REMOVAL WASTE OFF OF AIRPORT PROPERTY

**LEGEND**

- MARKING REMOVAL - LINEAR
- MARKING REMOVAL - PATTERN
- PAVEMENT DEMOLITION



MATCH LINE STA 12+00 SEE SHEET C-052



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**CITY OF UKIAH  
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REHABILITATION PHASE 1  
UKIAH MUNICIPAL AIRPORT  
UKIAH, CALIFORNIA**

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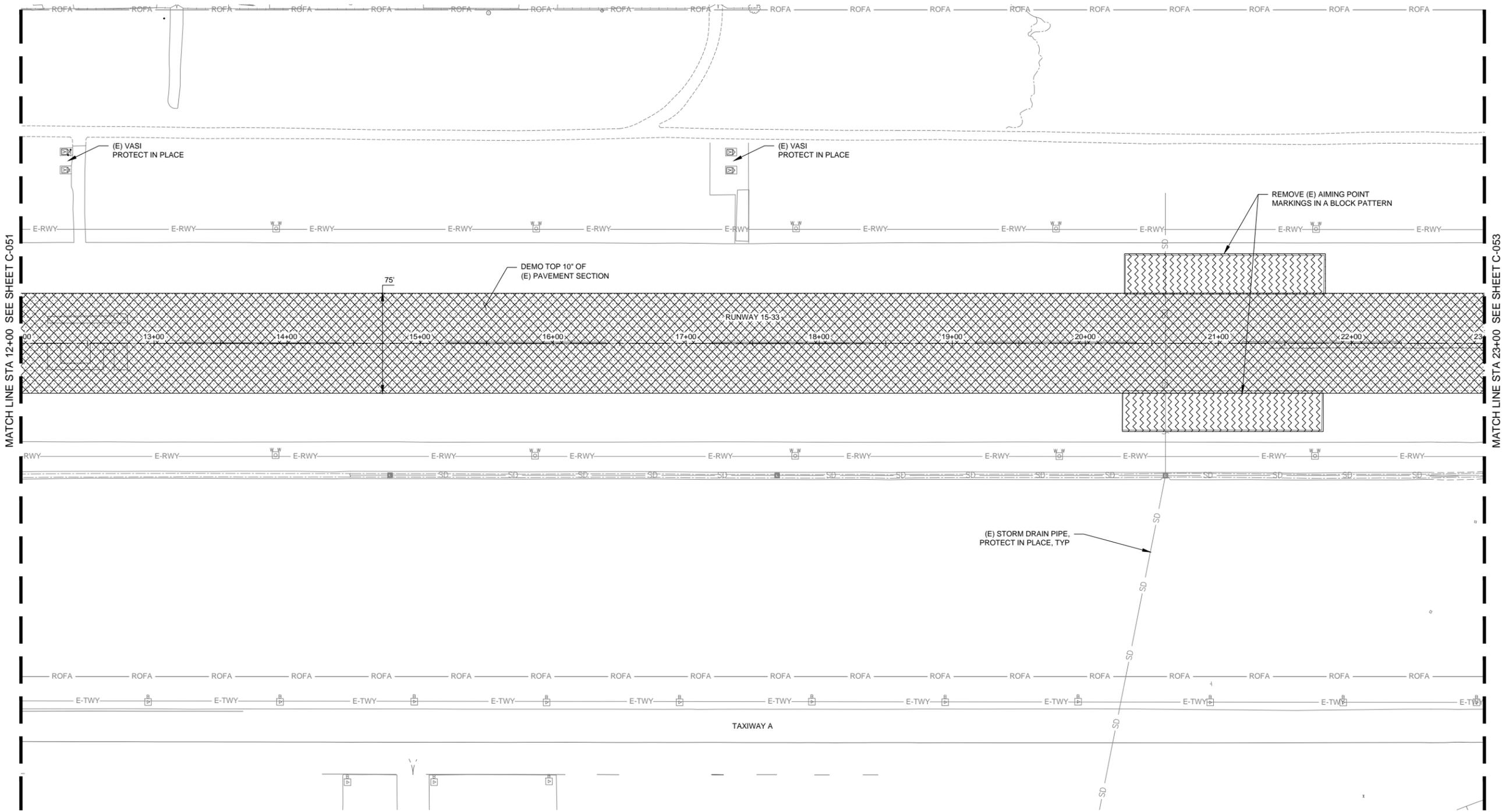
NOT FOR CONSTRUCTION

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SHEET CONTENTS  
DEMOLITION PLAN 2

SHEET NO. 9 of 30

**C-052**

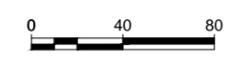


MATCH LINE STA 12+00 SEE SHEET C-051

MATCH LINE STA 23+00 SEE SHEET C-053

**LEGEND**

-  MARKING REMOVAL
-  PAVEMENT DEMOLITION





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**CITY OF UKIAH  
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UKIAH MUNICIPAL AIRPORT  
UKIAH, CALIFORNIA**

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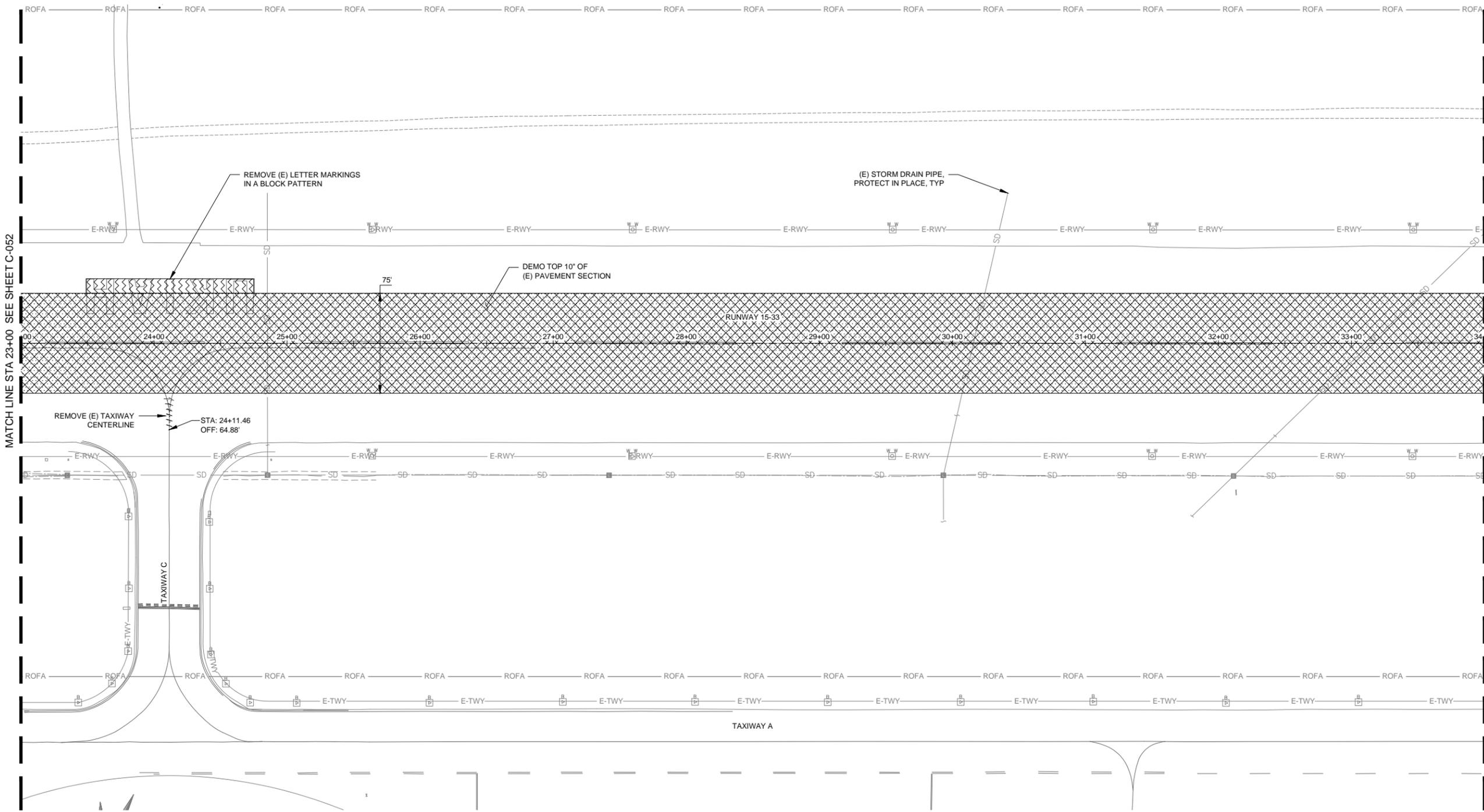
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MSH NO.: 2112200-160246.01  
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SHEET CONTENTS  
DEMOLITION PLAN 3

SHEET NO. 10 of 30

**C-053**



MATCH LINE STA 23+00 SEE SHEET C-052

MATCH LINE STA 34+00 SEE SHEET C-054

**LEGEND**

- MARKING REMOVAL
- MARKING REMOVAL
- PAVEMENT DEMOLITION





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REHABILITATION PHASE 1  
UKIAH MUNICIPAL AIRPORT  
UKIAH, CALIFORNIA**

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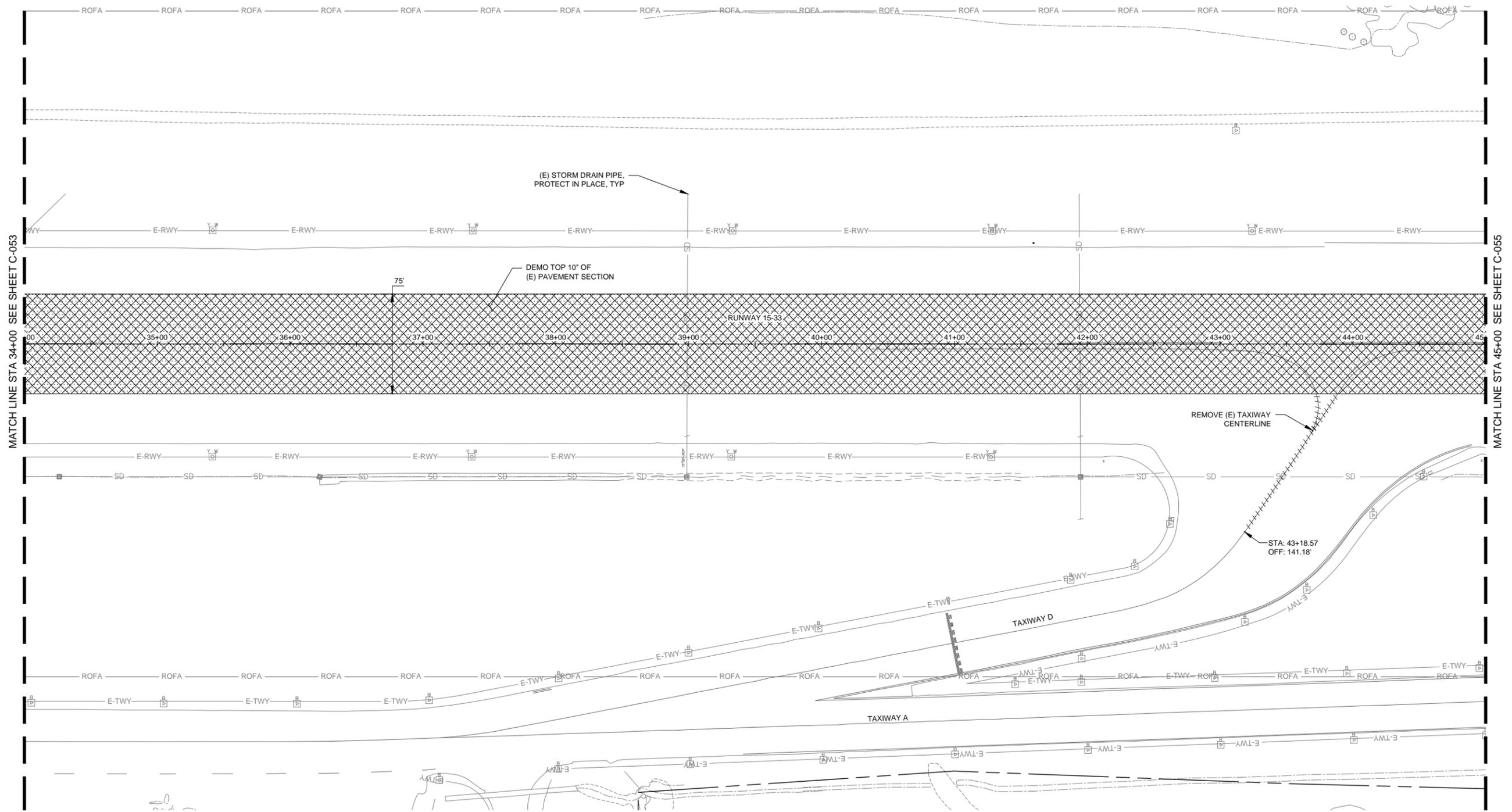
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MSH NO.: 2112200-160246.01  
DATE: JUNE 2019  
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DRAWN BY: JML  
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SHEET CONTENTS  
DEMOLITION PLAN 4

SHEET NO. 11 of 30

**C-054**

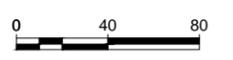


MATCH LINE STA 34+00 SEE SHEET C-053

MATCH LINE STA 45+00 SEE SHEET C-055

**LEGEND**

- MARKING REMOVAL
- ~~~~~ MARKING REMOVAL
- XXXXX PAVEMENT DEMOLITION





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**CITY OF UKIAH  
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REHABILITATION PHASE 1  
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UKIAH, CALIFORNIA**

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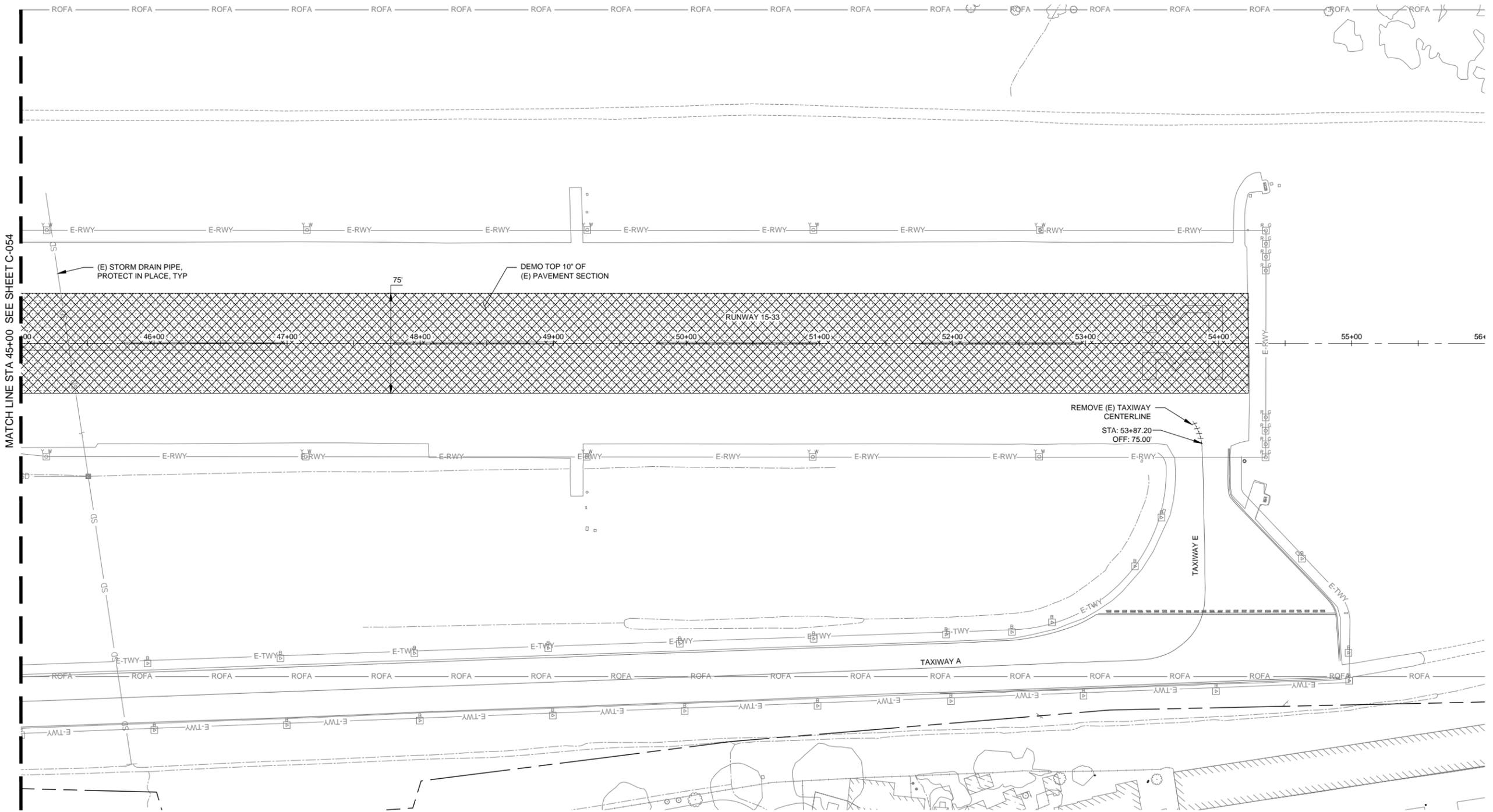
NOT FOR CONSTRUCTION

AP NO.: 3-06-0268-027-2019  
MSH NO.: 2112200-160246.01  
DATE: JUNE 2019  
DESIGNED BY: KVG  
DRAWN BY: JML  
CHECKED BY: DLA  
DO NOT SCALE DRAWINGS

SHEET CONTENTS  
DEMOLITION PLAN 5

SHEET NO. 12 of 30

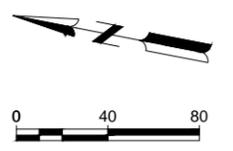
**C-055**



MATCH LINE STA 45+00 SEE SHEET C-054

**LEGEND**

	MARKING REMOVAL
	MARKING REMOVAL
	PAVEMENT DEMOLITION





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**CITY OF UKIAH  
RUNWAY 15-33 PAVEMENT  
REHABILITATION PHASE 1**  
UKIAH MUNICIPAL AIRPORT  
UKIAH, CALIFORNIA

ISSUED  
06/12/19 BID SET

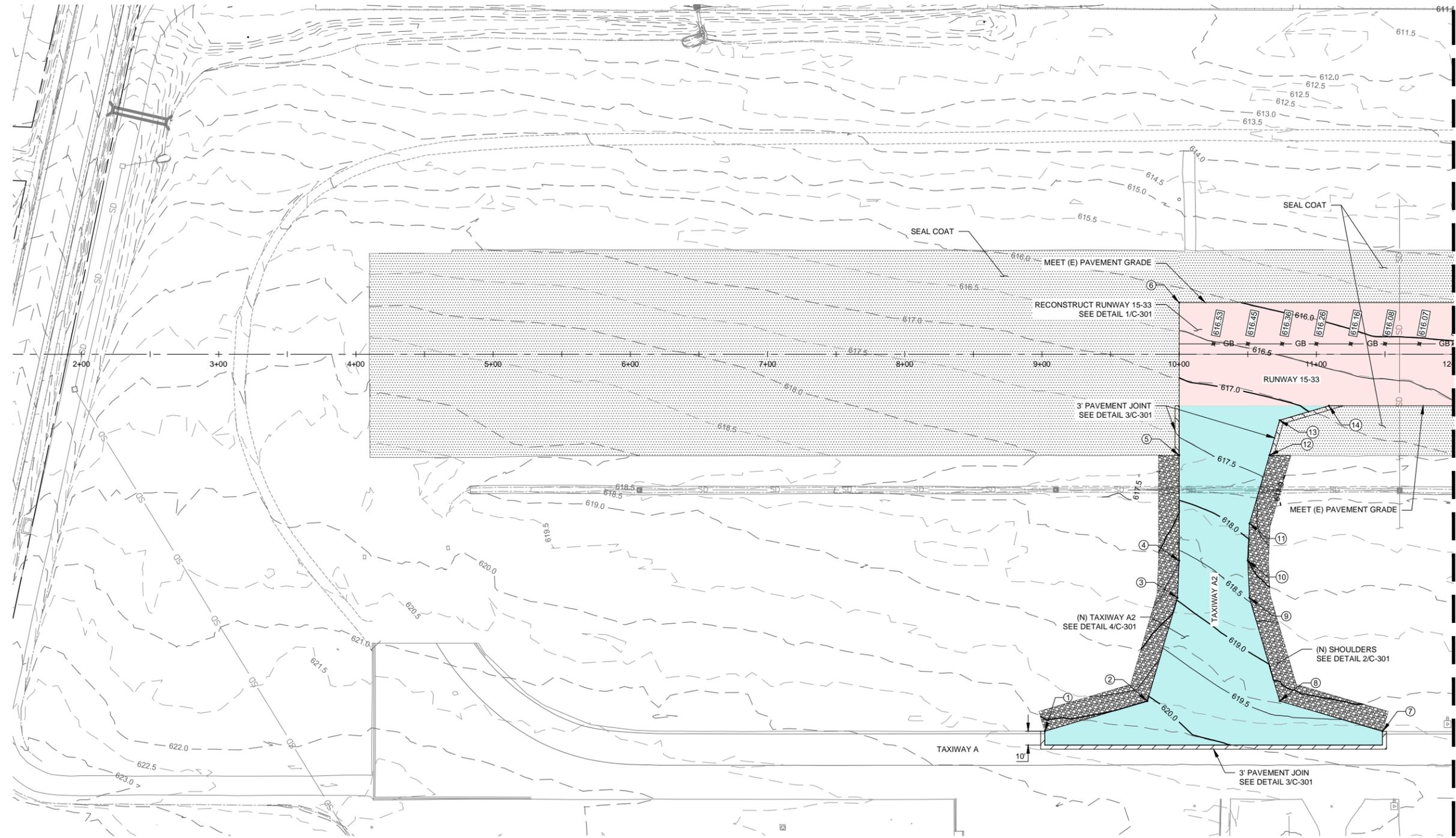
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AP NO.: 3-06-0268-027-2019  
M&H NO.: 2112200-160246.01  
DATE: JUNE 2019  
DESIGNED BY: KVG  
DRAWN BY: JTH  
CHECKED BY: DLA  
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SHEET CONTENTS  
GRADING AND  
DRAINAGE PLAN 1

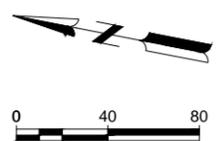
SHEET NO. 13 of 30

**C-101**



NOTE:  
SEAL COAT TO BE APPLIED AFTER  
PAVEMENT IS RECONSTRUCTED.

POINT	STATION	OFFSET	ELEVATION
1	9+02.04	273.92	620.30
2	9+76.76	252.00	619.01
3	9+98.76	177.00	618.63
4	10+00.00	150.00	618.40
5	10+00.00	73.37	618.41
6	10+00.00	-37.50	616.92
7	11+48.11	273.96	619.63
8	10+73.24	252.00	618.99
9	10+51.24	177.00	618.63
10	10+50.00	150.00	618.40
11	10+51.24	123.00	618.13
12	10+65.80	73.37	618.29
13	10+73.24	48.00	618.37
14	11+09.04	37.50	618.48



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**CITY OF UKIAH  
RUNWAY 15-33 PAVEMENT  
REHABILITATION PHASE 1  
UKIAH MUNICIPAL AIRPORT  
UKIAH, CALIFORNIA**

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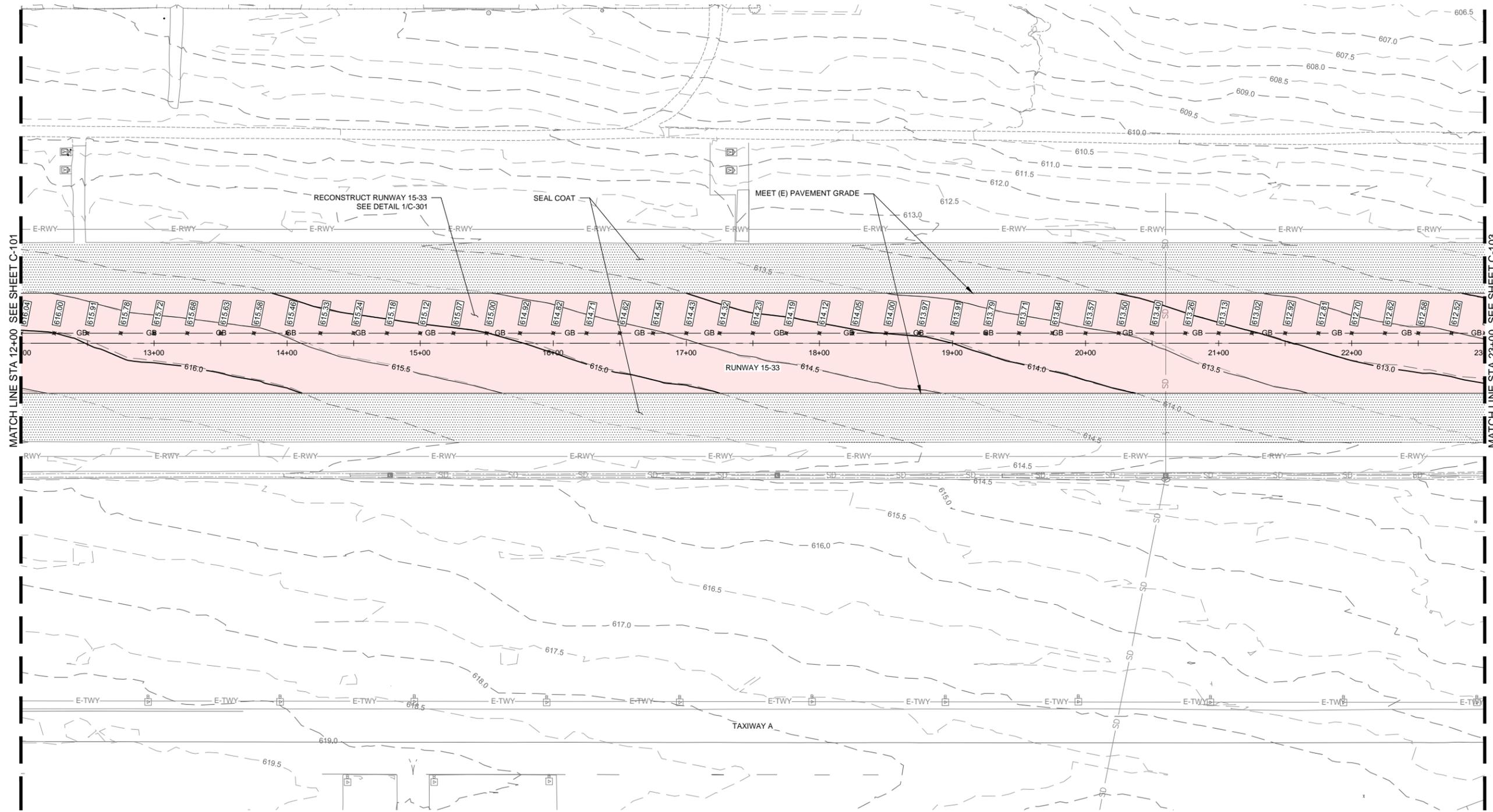
NOT FOR CONSTRUCTION

AP NO.: 3-06-0268-027-2019  
MSH NO.: 2112200-160246.01  
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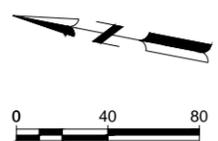
SHEET CONTENTS  
GRADING AND  
DRAINAGE PLAN 2

SHEET NO. 14 of 30

**C-102**



NOTE:  
SEAL COAT TO BE APPLIED AFTER  
PAVEMENT IS RECONSTRUCTED.



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6/7/2019 10:42:47 AM

MATCH LINE STA 12+00 SEE SHEET C-101

MATCH LINE STA 23+00 SEE SHEET C-103



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**CITY OF UKIAH  
RUNWAY 15-33 PAVEMENT  
REHABILITATION PHASE 1  
UKIAH MUNICIPAL AIRPORT  
UKIAH, CALIFORNIA**

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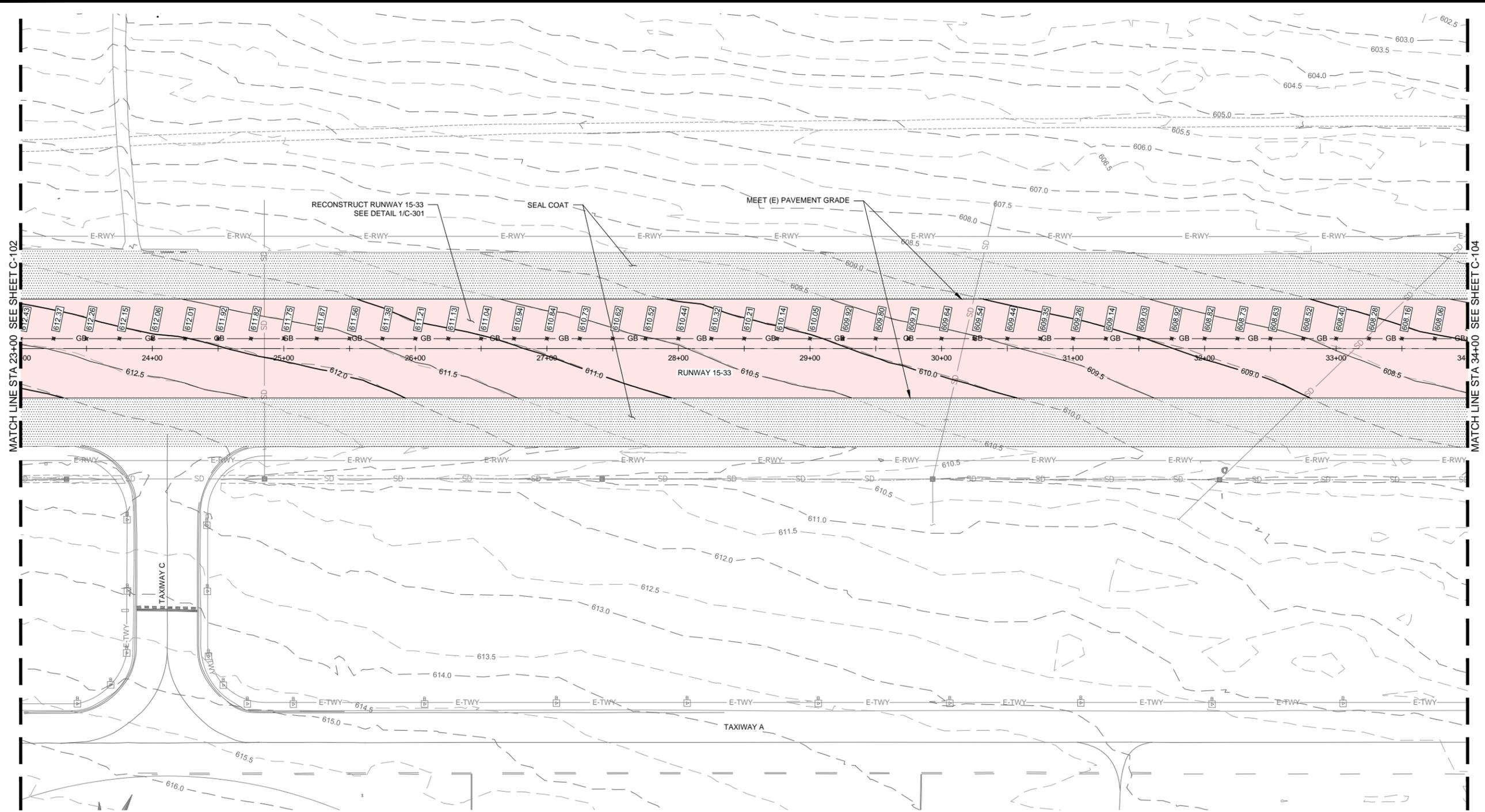
NOT FOR CONSTRUCTION

AP NO.: 3-06-0268-027-2019  
MSH NO.: 2112200-160246.01  
DATE: JUNE 2019  
DESIGNED BY: KVG  
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CHECKED BY: DLA  
DO NOT SCALE DRAWINGS

SHEET CONTENTS  
GRADING AND DRAINAGE PLAN 3

SHEET NO. 15 of 30

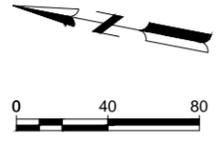
**C-103**



MATCH LINE STA 23+00 SEE SHEET C-102

MATCH LINE STA 34+00 SEE SHEET C-104

NOTE:  
SEAL COAT TO BE APPLIED AFTER  
PAVEMENT IS RECONSTRUCTED.





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**CITY OF UKIAH  
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UKIAH, CALIFORNIA**

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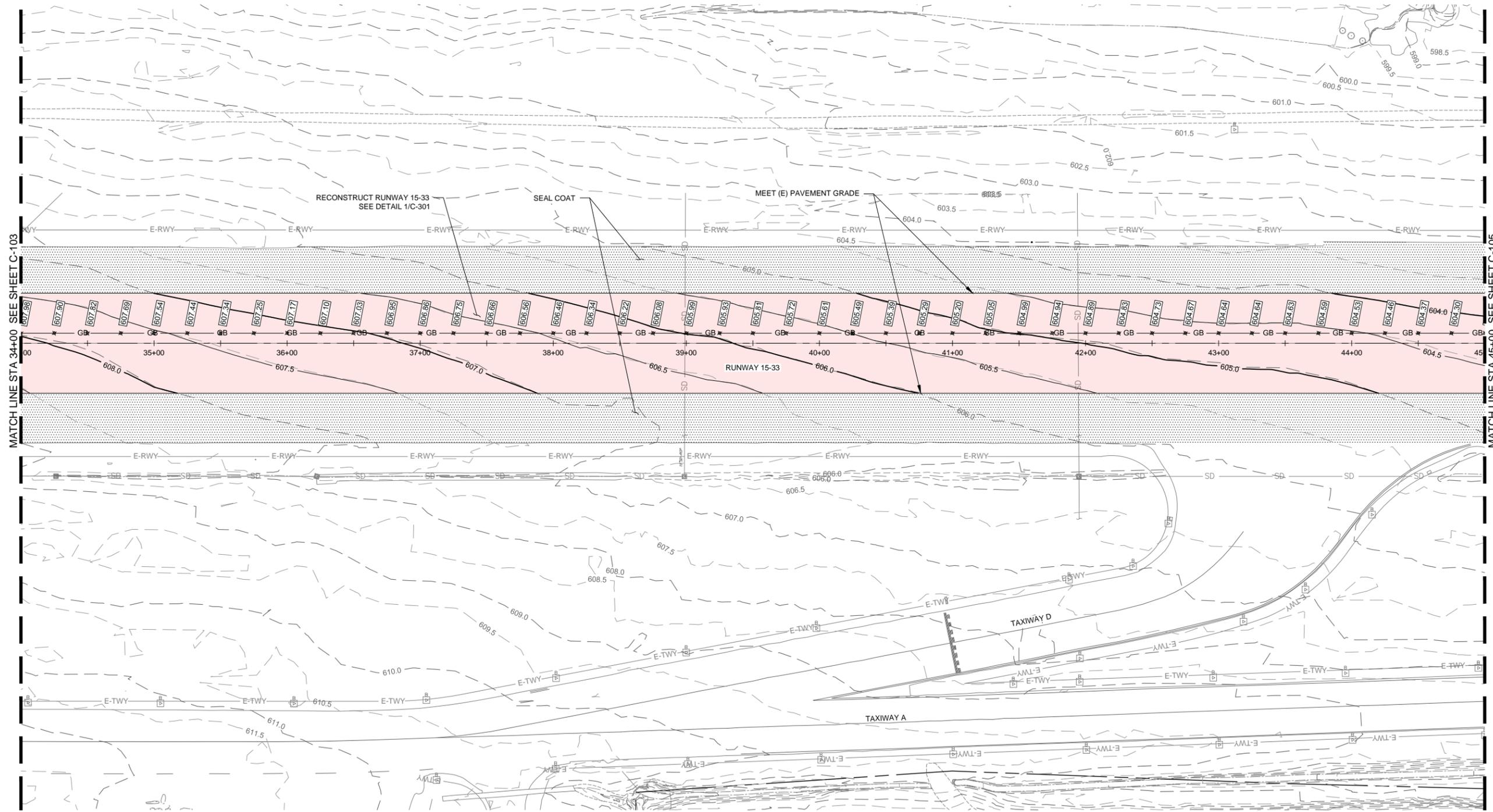
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MSH NO.: 2112200-160246.01  
DATE: JUNE 2019  
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CHECKED BY: DLA  
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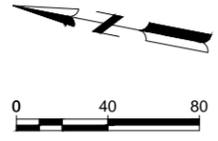
SHEET CONTENTS  
GRADING AND  
DRAINAGE PLAN 4

SHEET NO. 16 of 30

**C-104**



NOTE:  
SEAL COAT TO BE APPLIED AFTER  
PAVEMENT IS RECONSTRUCTED.



MATCH LINE STA 34+00 SEE SHEET C-103

MATCH LINE STA 45+00 SEE SHEET C-105



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**CITY OF UKIAH  
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UKIAH, CALIFORNIA**

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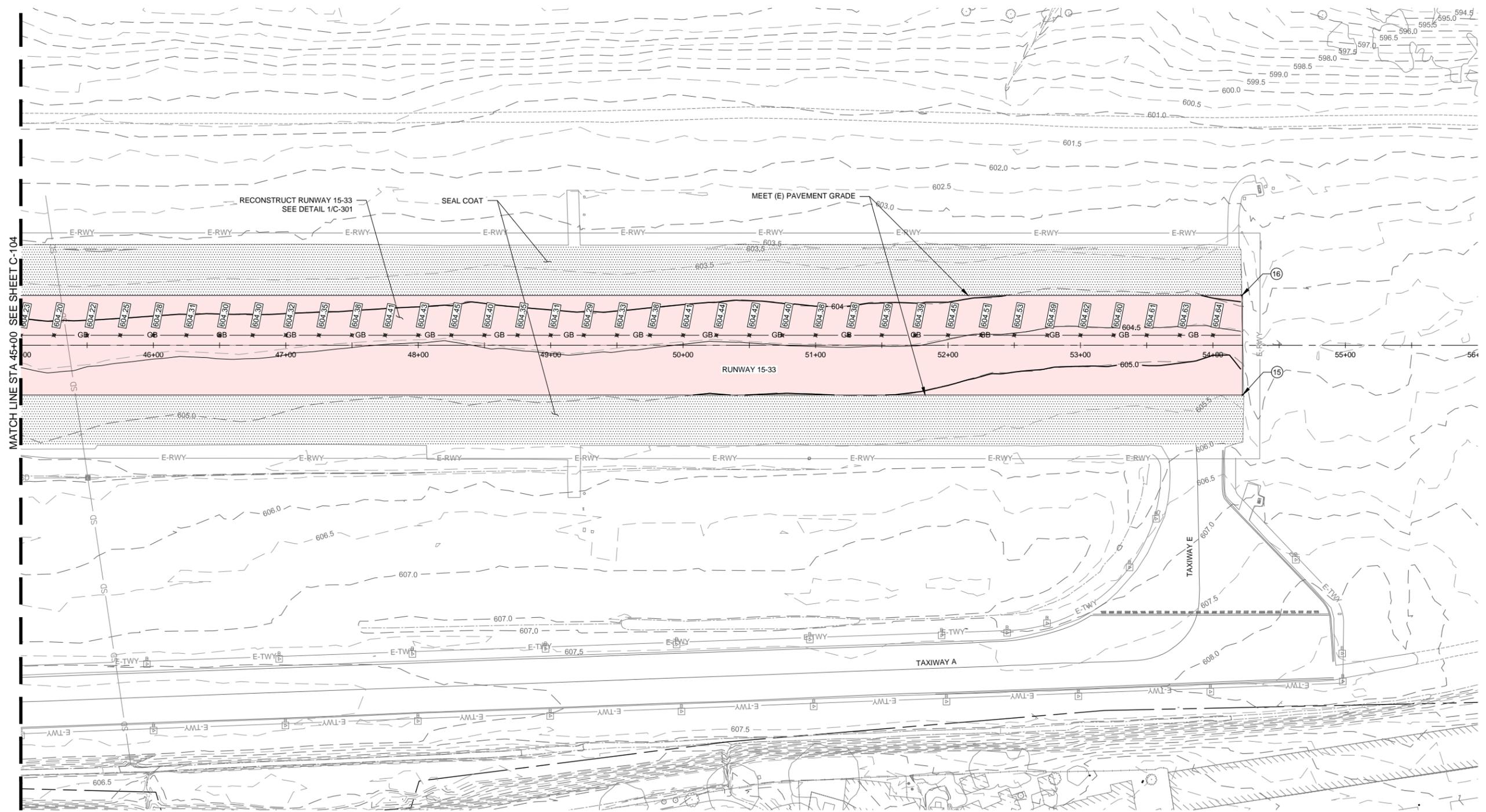
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M&H NO.: 2112200-160246.01  
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DESIGNED BY: KVG  
DRAWN BY: JTH  
CHECKED BY: DLA  
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SHEET CONTENTS  
GRADING AND  
DRAINAGE PLAN 5

SHEET NO. 17 of 30

**C-105**



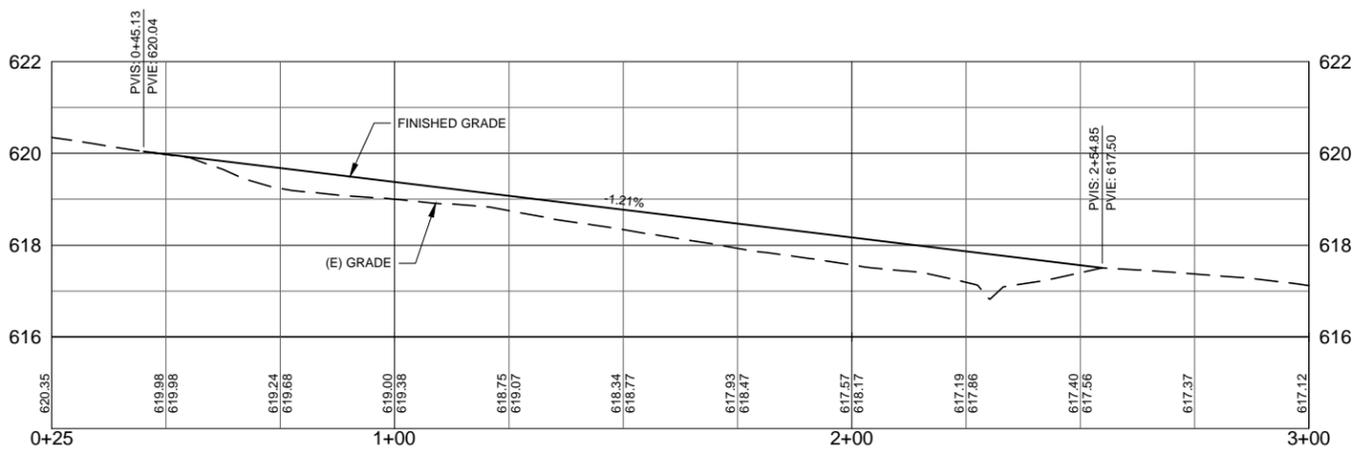
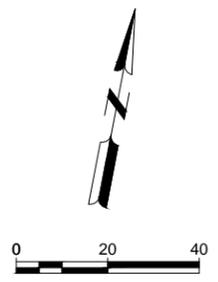
NOTE:  
SEAL COAT TO BE APPLIED AFTER  
PAVEMENT IS RECONSTRUCTED.

RUNWAY STATION, OFFSET, ELEVATION			
POINT	STATION	OFFSET	ELEVATION
15	54+22.33	37.50	605.31
16	54+21.79	-37.50	604.47



DATE SIGNED: 06/07/19

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NOTE:  
FOR ELECTRICAL IMPROVEMENTS, SEE SHEET E-201

**CITY OF UKIAH  
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REHABILITATION PHASE 1  
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SHEET CONTENTS  
PLAN AND PROFILE

SHEET NO. 18 of 30

**C-201**



DATE SIGNED: 06/07/19

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**CITY OF UKIAH  
RUNWAY 15-33 PAVEMENT  
REHABILITATION PHASE 1  
UKIAH MUNICIPAL AIRPORT  
UKIAH, CALIFORNIA**

ISSUED 06/12/19 BID SET

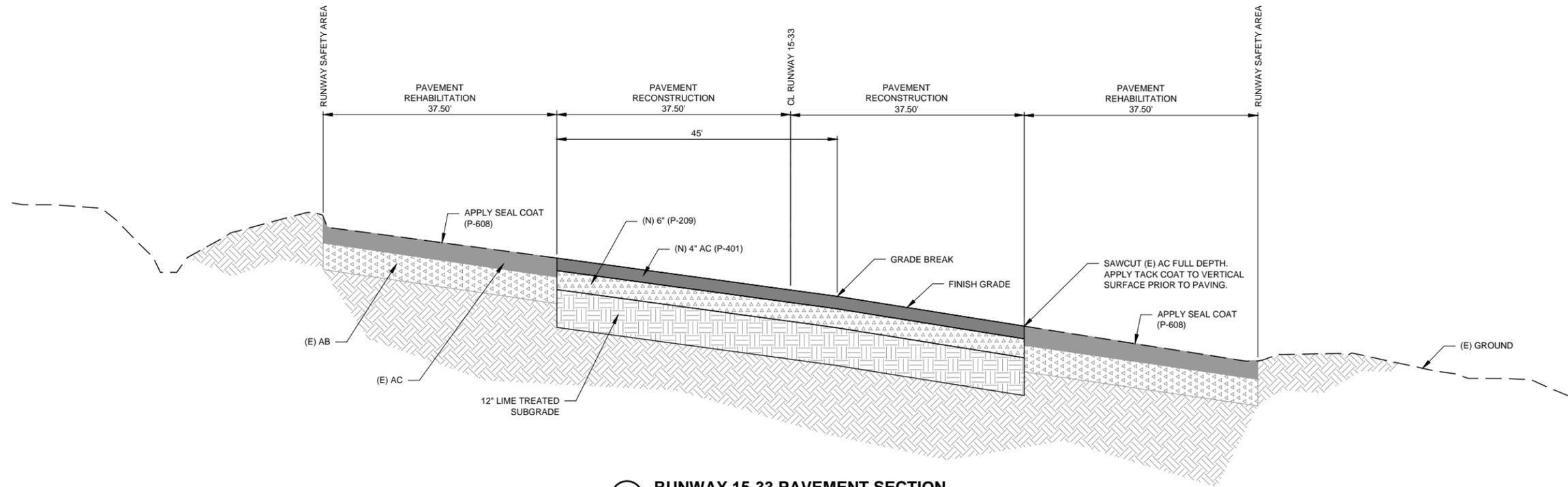
NOT FOR CONSTRUCTION

AP NO.: 3-06-0268-027-2019  
MSH NO.: 2112200-160246.01  
DATE: JUNE 2019  
DESIGNED BY: KVG  
DRAWN BY: JML  
CHECKED BY: DLA  
DO NOT SCALE DRAWINGS

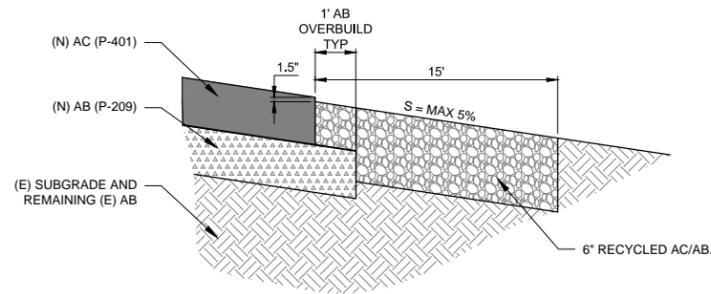
SHEET CONTENTS  
TYPICAL SECTIONS

SHEET NO. 19 of 30

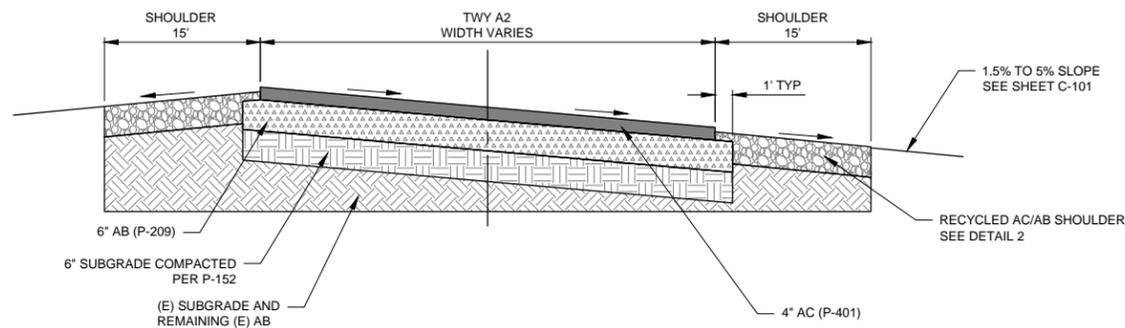
**C-301**



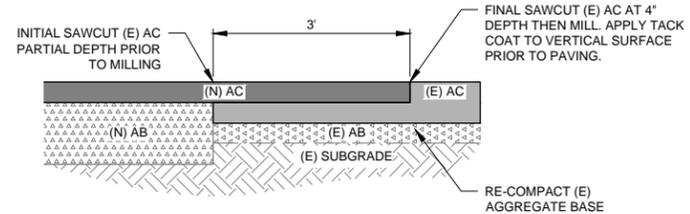
**1 RUNWAY 15-33 PAVEMENT SECTION**



**2 SHOULDER TYPICAL SECTION**



**4 TAXIWAY A2 PAVEMENT SECTION**



**3 TYPICAL AC PAVEMENT JOIN**



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**CITY OF UKIAH  
RUNWAY 15-33 PAVEMENT  
REHABILITATION PHASE 1  
UKIAH MUNICIPAL AIRPORT  
UKIAH, CALIFORNIA**

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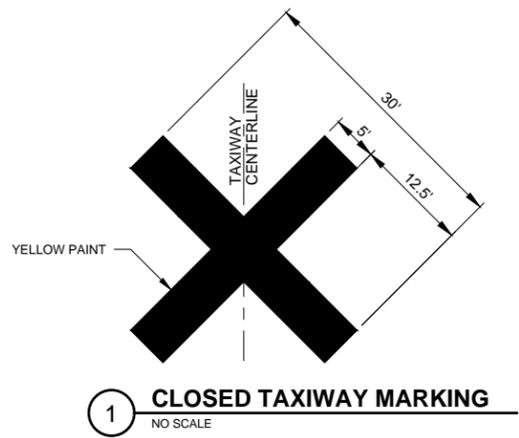
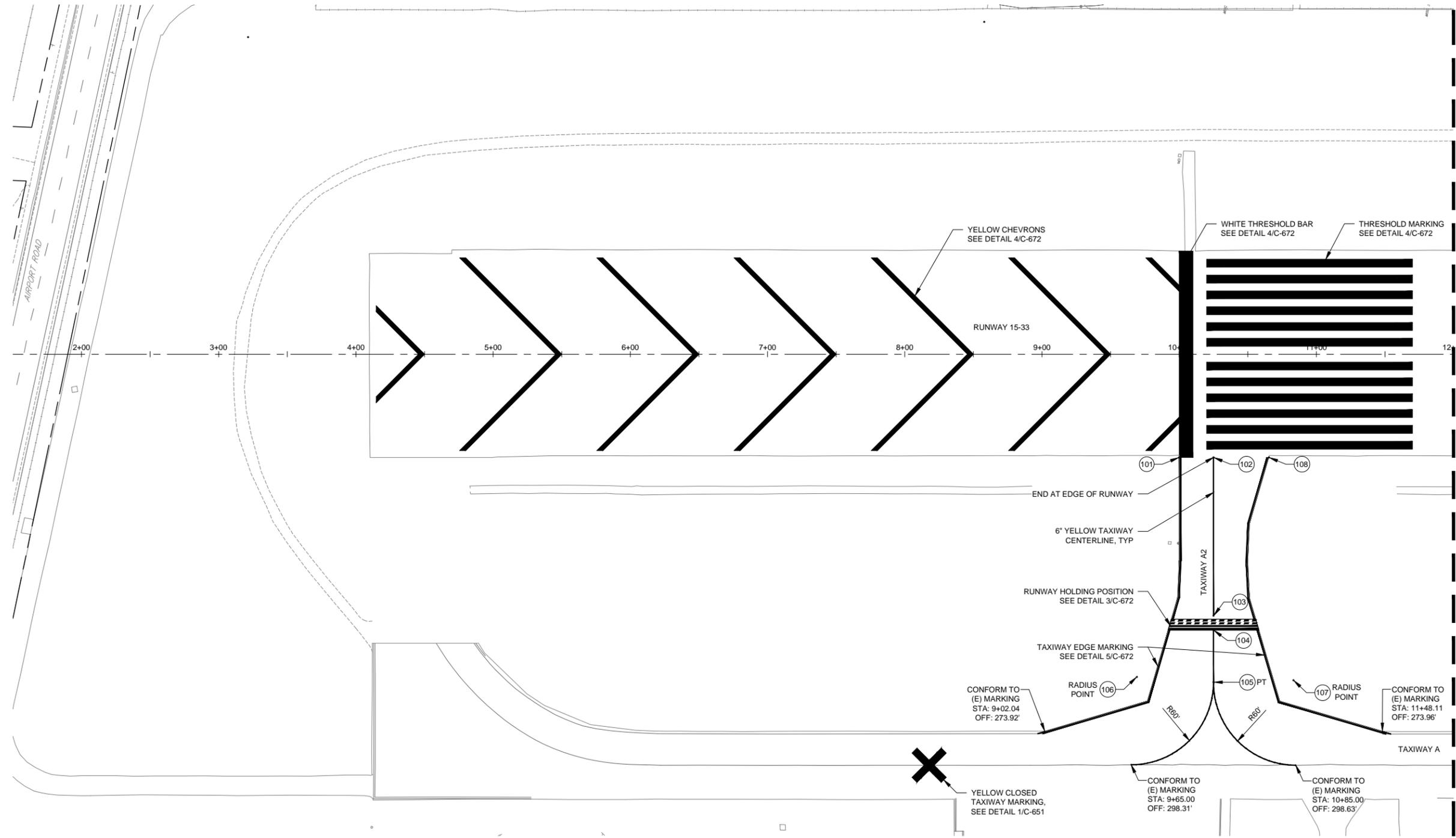
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SHEET CONTENTS  
MARKING PLANS 1

SHEET NO. 20 of 30

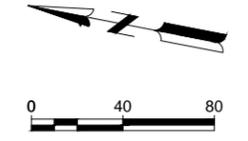
**C-651**



**NOTES:**

1. THE STATION / OFFSETS IDENTIFIED ON THIS SHEET ARE REFERENCED OFF THE EXISTING RUNWAY 15-33 ALIGNMENT. SEE SHEET G-041 FOR ALIGNMENT DATA.
2. TAXIWAY CENTERLINE MARKING COORDINATES REFERENCE THE CENTER OF THE MARKING.
3. TAXIWAY EDGE MARKING COORDINATES REFERENCE THE OUTSIDE EDGE OF THE MARKING.
4. CONTRACTOR SHALL TAPER PROPOSED MARKINGS TO MATCH EXISTING MARKINGS, AS NECESSARY, TO ENSURE CONSISTENT AND UNIFORM VISUAL APPEARANCE ACCEPTABLE TO THE AIRPORT.
5. ALL MARKINGS (EXCLUDING CHEVRONS) SHALL RECEIVE A 6 INCH BLACK BORDER.

RUNWAY STATION AND OFFSET		
POINT	STATION	OFFSET
101	10+00.00	75.00
102	10+25.00	75.00
103	10+25.00	190.00
104	10+25.00	200.50
105	10+25.00	238.31
106	9+69.21	234.48
107	10+83.22	236.92
108	10+65.39	75.00





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**CITY OF UKIAH  
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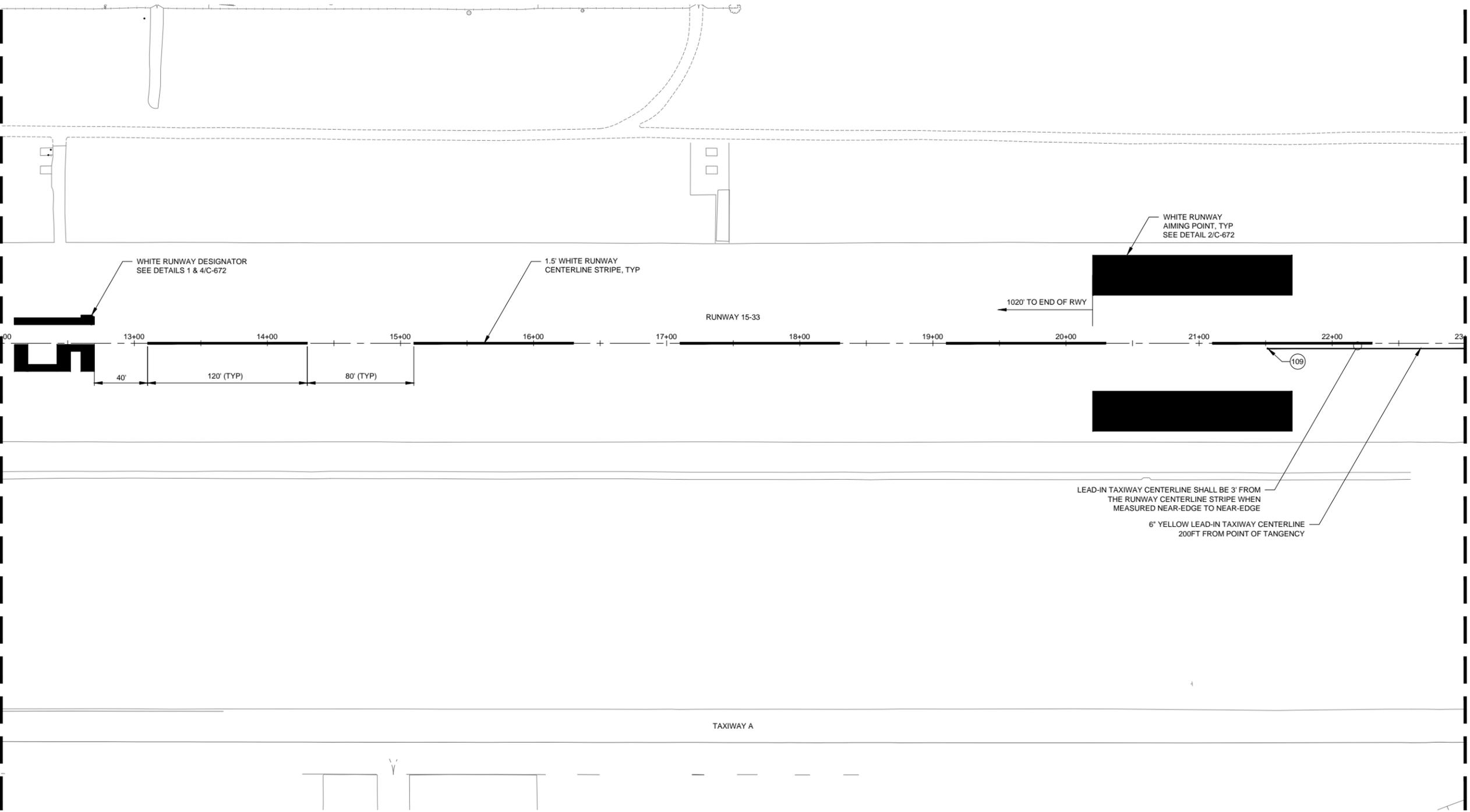
SHEET CONTENTS  
MARKING PLANS 2

SHEET NO. 21 of 30

**C-652**

MATCH LINE STA 12+00 SEE SHEET C-651

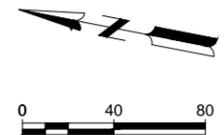
MATCH LINE STA 23+00 SEE SHEET C-653



**NOTES:**

1. THE STATION / OFFSETS IDENTIFIED ON THIS SHEET ARE REFERENCED OFF THE EXISTING RUNWAY 15-33 ALIGNMENT. SEE SHEET G-041 FOR ALIGNMENT DATA.
2. TAXIWAY CENTERLINE MARKING COORDINATES REFERENCE THE CENTER OF THE MARKING.
3. TAXIWAY EDGE MARKING COORDINATES REFERENCE THE OUTSIDE EDGE OF THE MARKING.
4. CONTRACTOR SHALL TAPER PROPOSED MARKINGS TO MATCH EXISTING MARKINGS, AS NECESSARY, TO ENSURE CONSISTENT AND UNIFORM VISUAL APPEARANCE ACCEPTABLE TO THE AIRPORT.

RUNWAY STATION AND OFFSET		
POINT	STATION	OFFSET
109	21+51.46	4.00





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**CITY OF UKIAH  
RUNWAY 15-33 PAVEMENT  
REHABILITATION PHASE 1  
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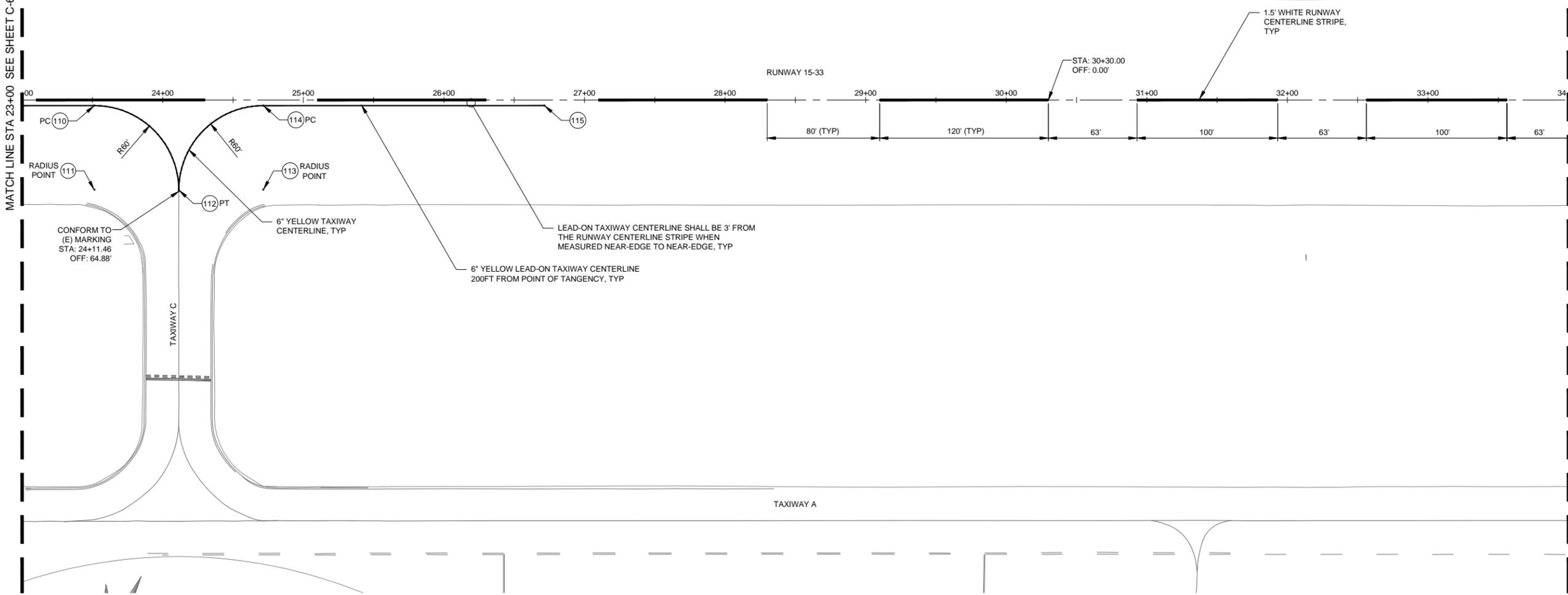
SHEET CONTENTS  
MARKING PLANS 3

SHEET NO. 22 of 30

**C-653**

MATCH LINE STA 23+00 SEE SHEET C-652

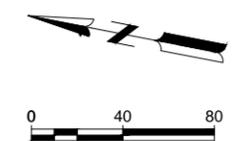
MATCH LINE STA 34+00 SEE SHEET C-654



**NOTES:**

1. THE STATION / OFFSETS IDENTIFIED ON THIS SHEET ARE REFERENCED OFF THE EXISTING RUNWAY 15-33 ALIGNMENT. SEE SHEET G-041 FOR ALIGNMENT DATA.
2. TAXIWAY CENTERLINE MARKING COORDINATES REFERENCE THE CENTER OF THE MARKING.
3. TAXIWAY EDGE MARKING COORDINATES REFERENCE THE OUTSIDE EDGE OF THE MARKING.
4. CONTRACTOR SHALL TAPER PROPOSED MARKINGS TO MATCH EXISTING MARKINGS, AS NECESSARY, TO ENSURE CONSISTENT AND UNIFORM VISUAL APPEARANCE ACCEPTABLE TO THE AIRPORT.

RUNWAY STATION AND OFFSET		
POINT	STATION	OFFSET
110	23+51.46	4.00
111	23+51.46	63.75
112	24+11.46	64.00
113	24+71.46	63.75
114	24+71.46	4.00
115	26+71.46	4.00





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## CITY OF UKIAH RUNWAY 15-33 PAVEMENT REHABILITATION PHASE 1 UKIAH MUNICIPAL AIRPORT UKIAH, CALIFORNIA

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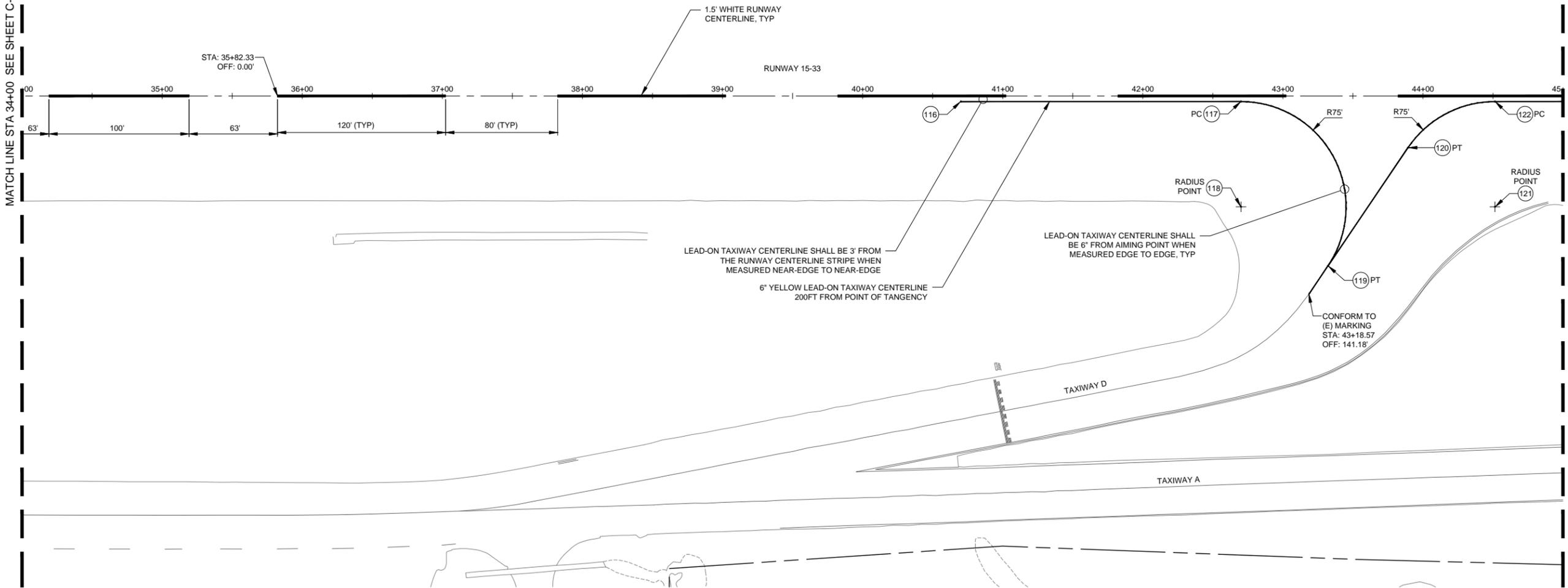
SHEET CONTENTS  
MARKING PLANS 4

SHEET NO. 23 of 30

### C-654

MATCH LINE STA 34+00 SEE SHEET C-653

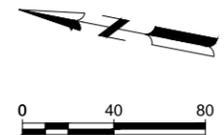
MATCH LINE STA 45+00 SEE SHEET C-655



**NOTES:**

1. THE STATION / OFFSETS IDENTIFIED ON THIS SHEET ARE REFERENCED OFF THE EXISTING RUNWAY 15-33 ALIGNMENT. SEE SHEET G-041 FOR ALIGNMENT DATA.
2. TAXIWAY CENTERLINE MARKING COORDINATES REFERENCE THE CENTER OF THE MARKING.
3. TAXIWAY EDGE MARKING COORDINATES REFERENCE THE OUTSIDE EDGE OF THE MARKING.
4. CONTRACTOR SHALL TAPER PROPOSED MARKINGS TO MATCH EXISTING MARKINGS, AS NECESSARY, TO ENSURE CONSISTENT AND UNIFORM VISUAL APPEARANCE ACCEPTABLE TO THE AIRPORT.

RUNWAY STATION AND OFFSET		
POINT	STATION	OFFSET
116	40+70.12	4.00
117	42+70.12	4.00
118	42+70.12	79.00
119	43+32.19	121.10
120	43+89.30	36.90
121	44+51.37	79.00
122	44+51.37	4.00





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**CITY OF UKIAH  
RUNWAY 15-33 PAVEMENT  
REHABILITATION PHASE 1  
UKIAH MUNICIPAL AIRPORT  
UKIAH, CALIFORNIA**

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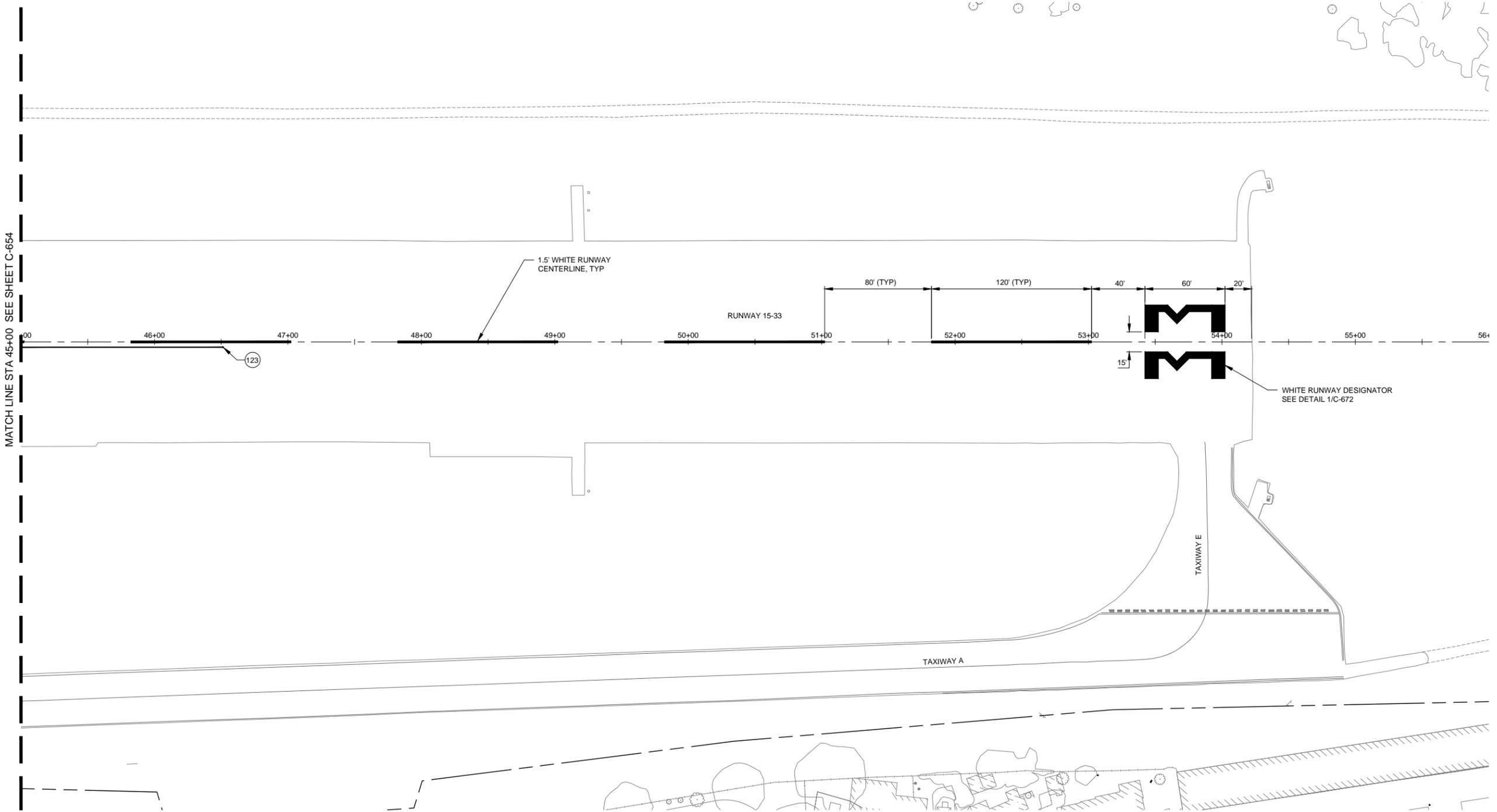
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MSH NO.: 2112200-160246.01  
DATE: JUNE 2019  
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SHEET CONTENTS  
MARKING PLANS 5

SHEET NO. 24 of 30

**C-655**

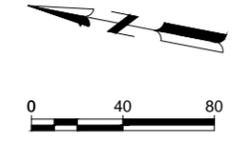
MATCH LINE STA 45+00 SEE SHEET C-654



**NOTES:**

1. THE STATION / OFFSETS IDENTIFIED ON THIS SHEET ARE REFERENCED OFF THE EXISTING RUNWAY 15-33 ALIGNMENT. SEE SHEET G-041 FOR ALIGNMENT DATA.
2. TAXIWAY CENTERLINE MARKING COORDINATES REFERENCE THE CENTER OF THE MARKING.
3. TAXIWAY EDGE MARKING COORDINATES REFERENCE THE OUTSIDE EDGE OF THE MARKING.
4. CONTRACTOR SHALL TAPER PROPOSED MARKINGS TO MATCH EXISTING MARKINGS, AS NECESSARY, TO ENSURE CONSISTENT AND UNIFORM VISUAL APPEARANCE ACCEPTABLE TO THE AIRPORT.

RUNWAY STATION AND OFFSET		
POINT	STATION	OFFSET
123	46+51.37	4.00





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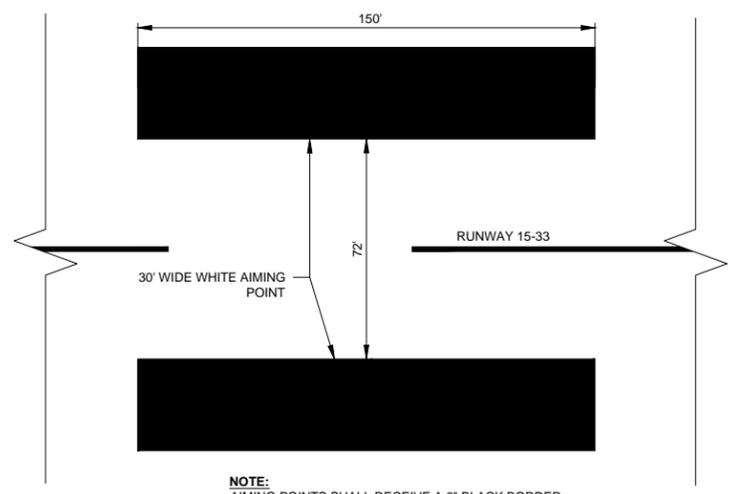
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SHEET CONTENTS  
MARKING DETAILS

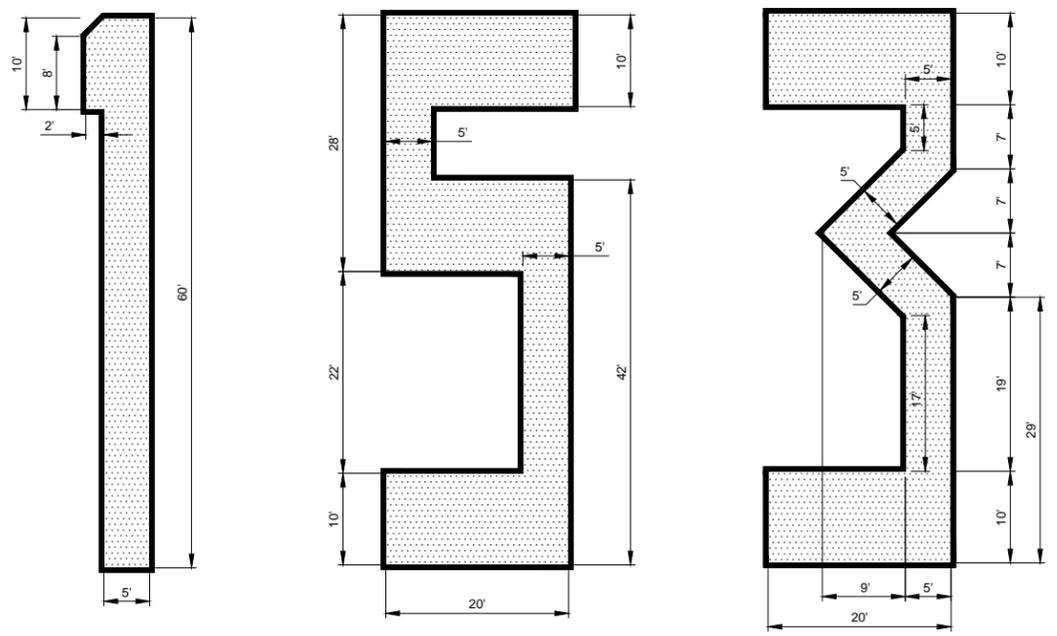
SHEET NO. 25 of 30

**C-672**



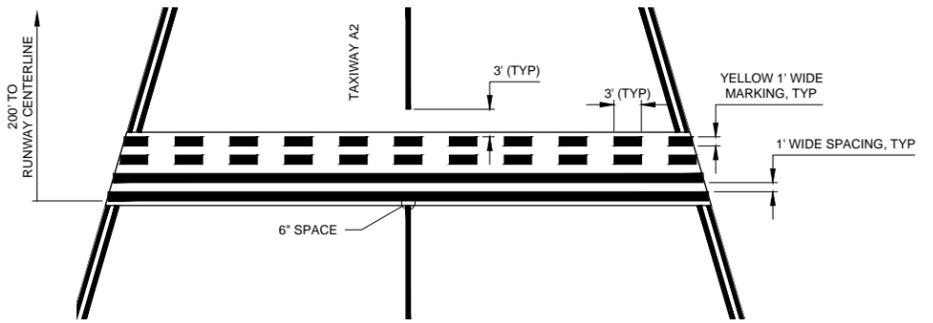
NOTE:  
AIMING POINTS SHALL RECEIVE A 6" BLACK BORDER.

**2 AIMING POINTS**  
1" = 30'



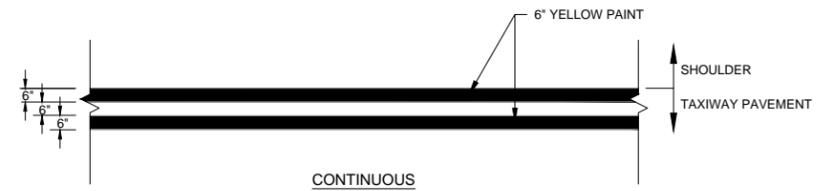
NOTE:  
DESIGNATORS SHALL RECEIVE A 6" BLACK BORDER.

**1 RUNWAY DESIGNATION NUMERALS**  
1" = 10'



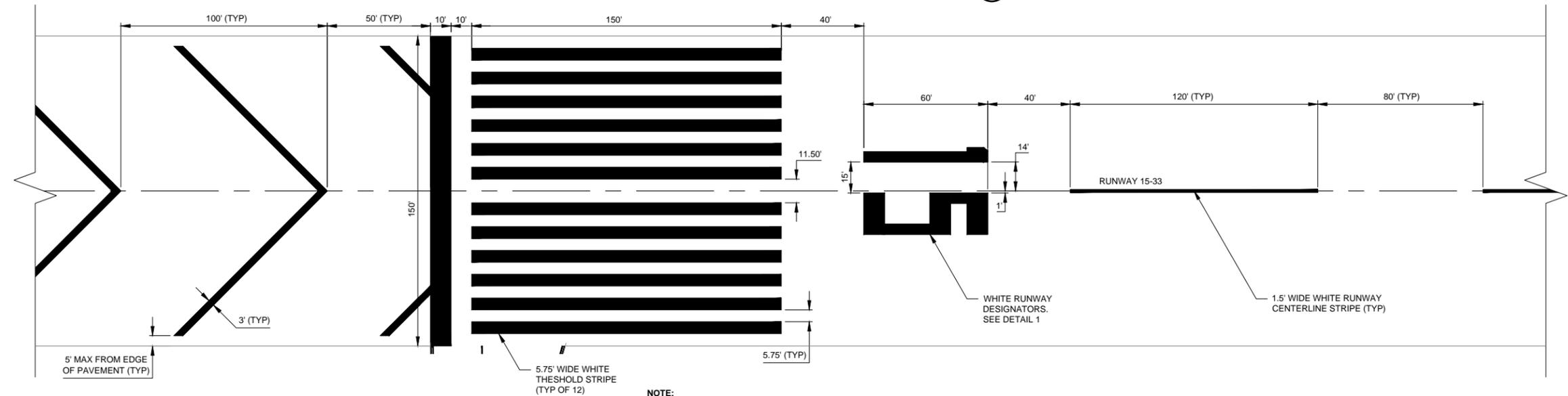
NOTE:  
HOLDING POSITION STRIPES SHALL RECEIVE 6" BLACK BORDERS.

**3 RUNWAY HOLDING POSITION MARKING**  
1" = 10'



NOTE:  
TAXIWAY EDGE MARKINGS SHALL RECEIVE 6" BLACK BORDERS.

**5 TAXIWAY EDGE MARKING**  
NTS



NOTE:  
ALL MARKINGS SHALL RECEIVE A 6" BLACK BORDER, EXCEPT CHEVRONS.

**4 THRESHOLD MARKING**  
1" = 30'



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**CITY OF UKIAH  
RUNWAY 15-33 PAVEMENT  
REHABILITATION PHASE 1  
UKIAH MUNICIPAL AIRPORT  
UKIAH, CALIFORNIA**

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06/12/19 BID SET

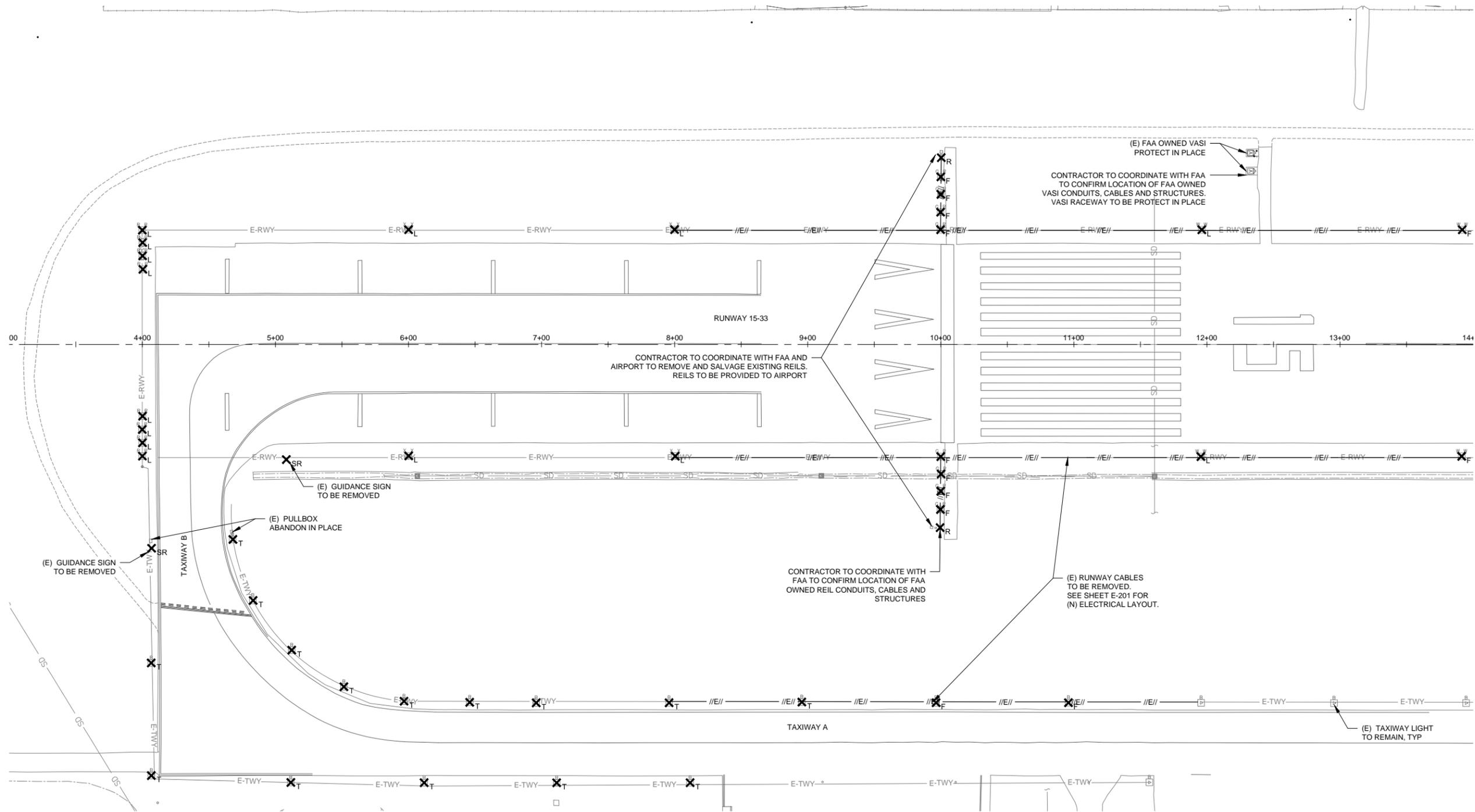
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SHEET CONTENTS  
ELECTRICAL  
REMOVAL PLAN

SHEET NO. 26 of 30

**E-101**



**LEGEND**

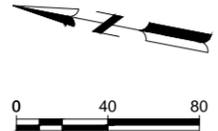
- EXISTING MRL  
(ELEVATED BASE MOUNTED)
- EXISTING MITL  
(ELEVATED BASE MOUNTED)
- EXISTING MITL  
(ELEVATED BASE MOUNTED)
- EXISTING TAXIWAY ELECTRICAL  
UNDERGROUND TO REMAIN
- EXISTING RUNWAY ELECTRICAL  
UNDERGROUND
- ELECTRICAL REMOVAL (E) TWY OR RWY  
CABLES IN CONDUIT TO BE REMOVED

**ELECTRICAL DEMOLITION LEGEND:**

- X<sub>L</sub>** - REMOVE AND RELOCATE EXISTING LIGHT FIXTURES AND TRANSFORMERS (SEE E-201). EXISTING BASE CAN, AND CONDUCTORS TO REMAIN. PROVIDE CABLE SPLICE IN CANS TO CONTINUE SERIES CIRCUIT. SOLID 3/8 INCH BLANK COVER SHALL BE INSTALLED. BASE CANS SHALL BE CLEANED AS NECESSARY AND IF NEEDED RE-TAP THREADS IN BOLT HOLES FOR COVER.
- X<sub>F</sub>** - REMOVE AND RELOCATE EXISTING LIGHT FIXTURES. REMOVE EXISTING TRANSFORMERS, CONDUCTORS, AND BASE CANS. BACKFILL RESULTING VOID IN ACCORDANCE WITH P-152. EXISTING BASE CANS ARE UP TO 36 INCHES DEEP.
- X<sub>SR</sub>** - REMOVE AND DEMOLISH EXISTING GUIDANCE SIGN, SIGN PAD, TRANSFORMER, CAN AND CONDUCTORS.
- X<sub>R</sub>** - REMOVE AND SALVAGE EXISTING REILS AND TRANSFORMER. REMOVE EXISTING CONDUCTORS, AND CONCRETE PADS. REILS AND TRANSFORMER TO BE PROVIDED TO AIRPORT FOR STORAGE.
- X<sub>T</sub>** - REMOVE AND DEMOLISH EXISTING MITL LIGHT FIXTURE AND TRANSFORMER. EXISTING BASE CAN AND CONDUCTORS TO REMAIN. PROVIDE CABLE SPLICE AS REQUIRED TO CONTINUE SERIES CIRCUIT. SOLID 3/8 INCH BLANK COVER SHALL BE INSTALLED. BASE CANS SHALL BE CLEANED AS NECESSARY AND IF NEEDED RE-TAP THREADS IN BOLT HOLES FOR COVER.

**ELECTRICAL GENERAL NOTES:**

1. UNLESS OTHERWISE NOTED, ITEMS DESIGNATED FOR REMOVAL SHALL BE DISPOSED OF AT AN OFF SITE LOCATION.
2. UNLESS OTHERWISE NOTED, RUNWAY AND PAPI CABLES SHALL BE REMOVED AS SHOWN ON THE DRAWINGS. ENCOUNTERED ABANDONED CONDUITS TO BE REMOVED.
3. SEE SHEETS C-051 TO C-055 FOR DEMOLITION PLANS.





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## CITY OF UKIAH RUNWAY 15-33 PAVEMENT REHABILITATION PHASE 1 UKIAH MUNICIPAL AIRPORT UKIAH, CALIFORNIA

ISSUED 06/12/19 BID SET

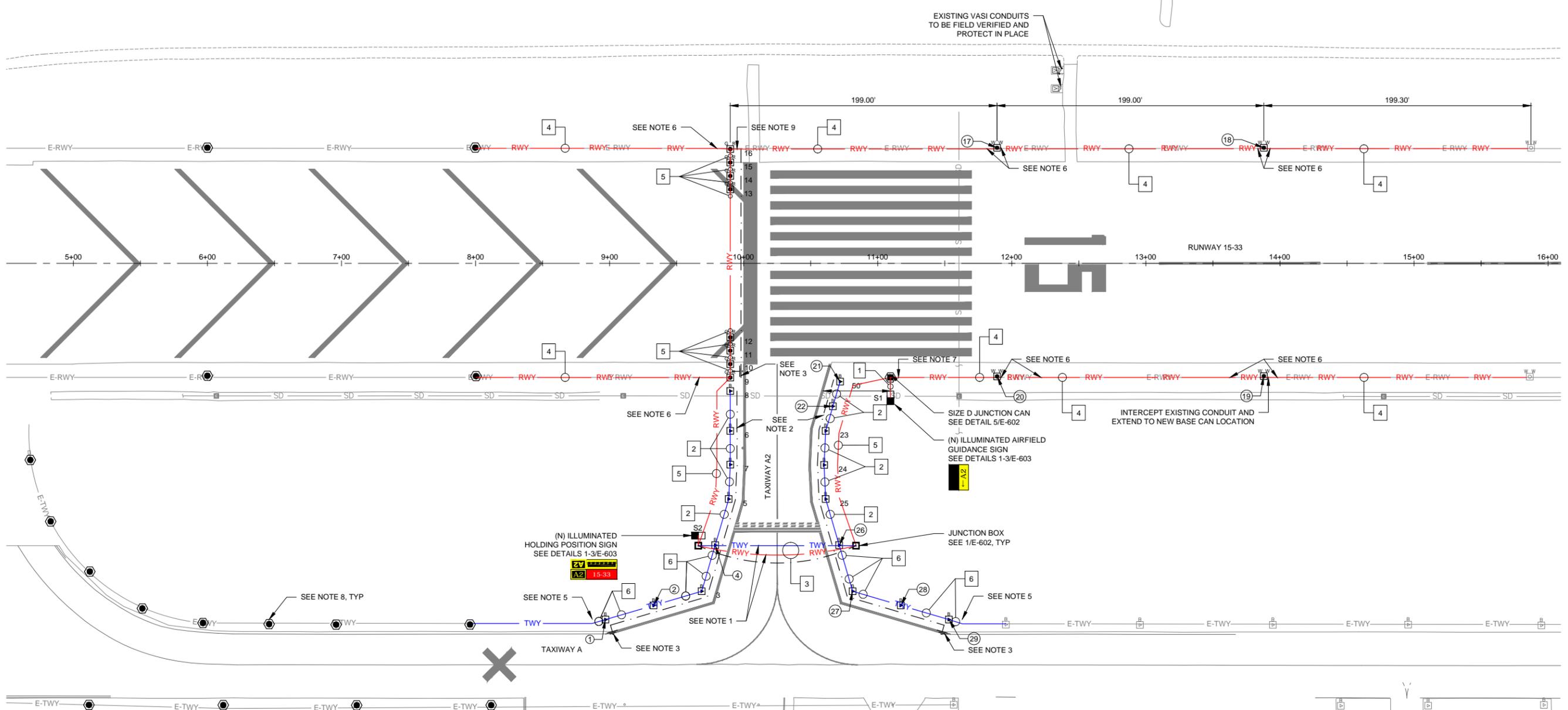
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SHEET CONTENTS  
ELECTRICAL LAYOUT PLAN

SHEET NO. 27 of 30

### E-201



**LEGEND**

	EXISTING MIRL (ELEVATED BASE MOUNTED)
	RELOCATED MIRL (ELEVATED BASE MOUNTED)
	EXISTING MITL (ELEVATED BASE MOUNTED)
	EXISTING MITL (ELEVATED BASE MOUNTED)
	EXISTING TAXIWAY ELECTRICAL UNDERGROUND
	EXISTING RUNWAY ELECTRICAL UNDERGROUND
	RELOCATED MEDIUM INTENSITY THRESHOLD LIGHT (ELEVATED BASE MOUNTED)
	NEW MITL (ELEVATED BASE MOUNTED)
	NEW GUIDANCE SIGN
	PROPOSED RELOCATED REIL LOCATION
	JUNCTION CAN
	EXISTING BASE CAN WITH NEW 3/8" BLANK COVER
	NEW TAXIWAY ELECTRICAL UNDERGROUND
	NEW RUNWAY ELECTRICAL UNDERGROUND
	NEW GROUND ROD AND GROUND CONNECTORS
	NEW COUNTERPOISE WIRE
	CONDUIT AND CIRCUIT TAG NUMBER
	FIXTURE NUMBER FOR LIGHT TABLE

- NOTES:**
- COUNTERPOISE SHALL BE INSTALLED ABOVE CONDUITS WHEN CROSSING (E) PAVEMENT. SEE DETAIL 4/E-E-601.
  - INSTALL #6 AWG, BARE SOLID COPPER COUNTERPOISE 5FT FROM TAXIWAY EDGE AND 2FT FROM RUNWAY EDGE. SEE DETAIL 5/E-E-601.
  - INSTALL GROUND ROD AND GROUND CONNECTORS, MAX 500' SPACING ALONG COUNTERPOISE. SEE DETAIL 6/E-E-601.
  - CONDUIT AND COUNTERPOISE LAYOUT IS EXAGGERATED FOR VISUAL PURPOSES.
  - INTERCEPT EXISTING 2" TAXIWAY CONDUIT AND EXTEND TO NEW TAXIWAY MITL. INSTALL NEW #8, 5KV CONDUCTOR FROM EXISTING MITL LOCATION TO THE NEW RELOCATED MITL FIXTURE.
  - INTERCEPT EXISTING 2" RUNWAY CONDUIT AND EXTEND TO NEW RUNWAY BASE CAN LOCATION. RELOCATE EXISTING MIRL LIGHT AND TRANSFORMER TO NEW RUNWAY BASE CAN LOCATION.
  - INTERCEPT EXISTING 2" RUNWAY CONDUIT AND EXTEND TO NEW JUNCTION CAN LOCATION.
  - EXISTING BASE THREADS TO BE RE-TAPED AND A NEW SOLID 3/8 INCH BLANK COVER TO BE INSTALLED ON TOP.
  - INTERCEPT EXISTING 2" RUNWAY CONDUIT AND EXTEND TO RELOCATED THRESHOLD LIGHT LOCATION.

**CONDUIT AND CIRCUIT SCHEDULE**

TAG NO.	CIRCUIT DESCRIPTION	QTY. SIZE CONDUIT	CONDUCTOR QTY.#/SIZE, TYPE	NOTES:
1	RWY CKT	(N) 1-2"	(N) 2#8, 5KV	
2	TWY CKT	(N) 1-2"	(N) 2#8, 5KV	
3	RWY CKT, TWY CKT SPARE	(N) 2-2"	(N) 1#8 (5KV), 1#8 (5KV) BLANK	SPARE
4	RWY CKT	(E) 1-2"	(N) 1#8, 5KV	
5	RWY CKT	(N) 1-2"	(N) 1#8, 5KV	
6	TWY CKT	(N) 1-2"	(N) 1#8, 5KV	

**LIGHT TABLE**

#	STATION	OFFSET
1	8+96.91	265.00
2	9+32.81	254.47
3	9+68.70	243.94
4	9+78.76	209.64
5	9+88.83	175.34
6	9+90.00	124.66
7	9+90.00	149.77
8	9+90.00	95.00
9	9+90.00	85.00
10	9+90.00	75.00

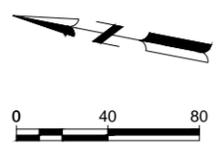
**LIGHT TABLE**

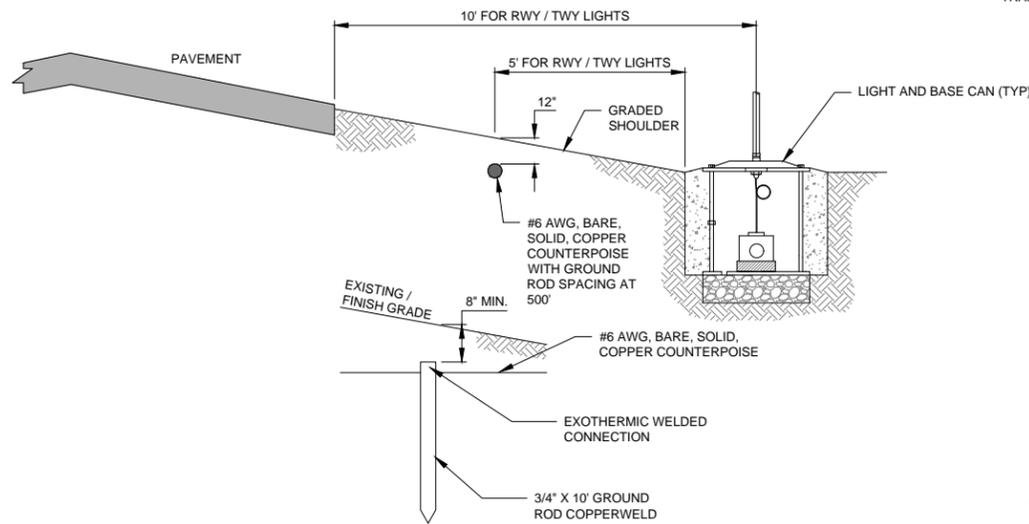
#	STATION	OFFSET
11	9+90.00	65.00
12	9+90.00	55.00
13	9+90.00	-55.00
14	9+90.00	-65.00
15	9+90.00	-75.00
16	9+90.00	-85.00
17	11+89.00	-85.95
18	13+88.00	-85.95
19	13+88.00	83.92
20	11+89.00	84.12

**LIGHT TABLE**

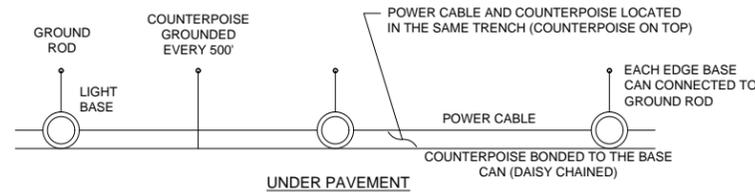
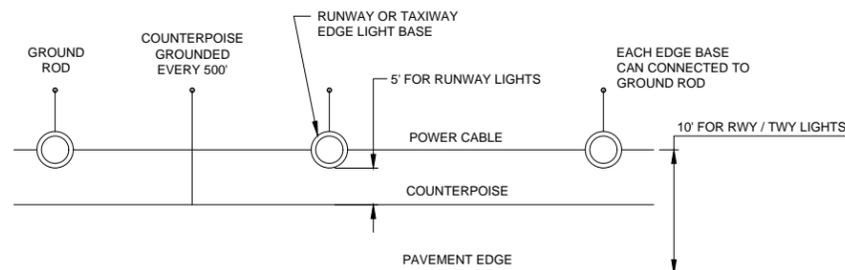
#	STATION	OFFSET
21	10+71.93	88.00
22	10+66.55	106.33
23	10+61.17	124.66
24	10+60.01	150.00
25	10+61.17	175.34
26	10+71.24	209.64
27	10+81.30	243.94
28	11+17.19	254.47
29	11+53.09	265.00

**GENERAL NOTE:**  
NEW MEDIUM INTENSITY TAXIWAY LIGHT FIXTURES SHALL MATCH COLOR AND INTENSITY AS EXISTING TAXIWAY LIGHTS. CONTRACTOR TO FIELD VERIFY EXISTING TAXIWAY LIGHTS PRIOR TO PURCHASING.



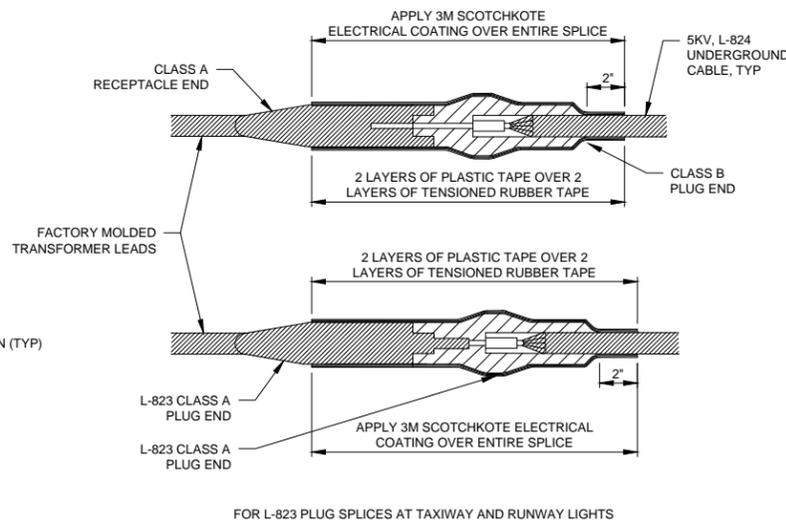


**5** COUNTERPOISE INSTALLATION DETAIL  
NO SCALE



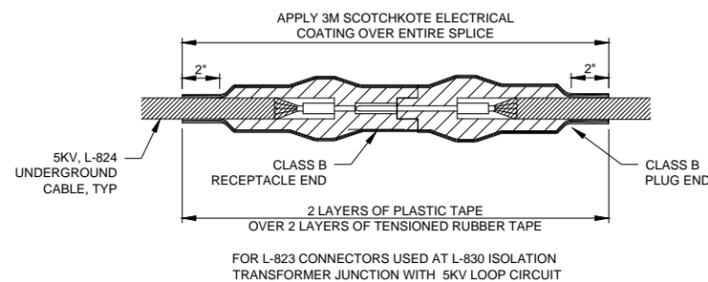
- NOTES:
- INSTALL GROUND RODS FOR COUNTERPOISE MAXIMUM EVERY 500 LF OR AT THE END OF A STRAIGHT SEGMENT
  - COUNTERPOISE SHALL BE INSTALLED AS SHOWN IN THIS DETAIL.

**6** TYPICAL COUNTERPOISE AND GROUND ROD CONNECTIONS  
NO SCALE



FOR L-823 PLUG SPLICES AT TAXIWAY AND RUNWAY LIGHTS

FIGURE A

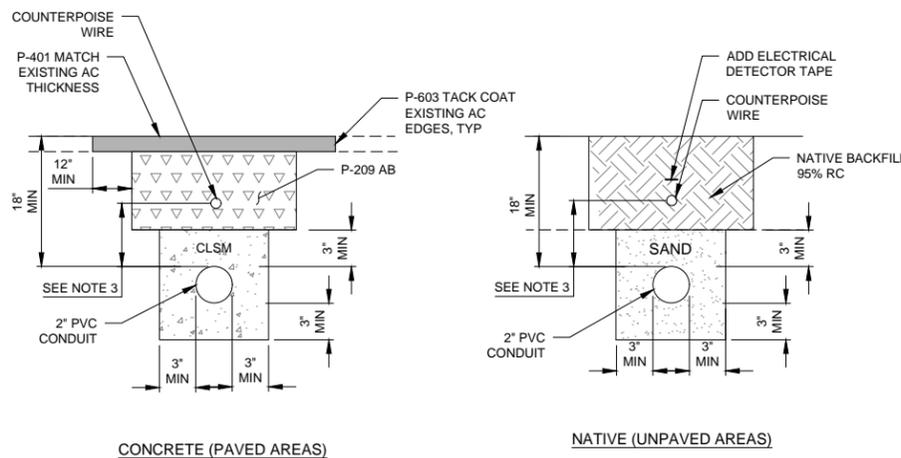


FOR L-823 CONNECTORS USED AT L-830 ISOLATION TRANSFORMER JUNCTION WITH 5KV LOOP CIRCUIT

FIGURE B

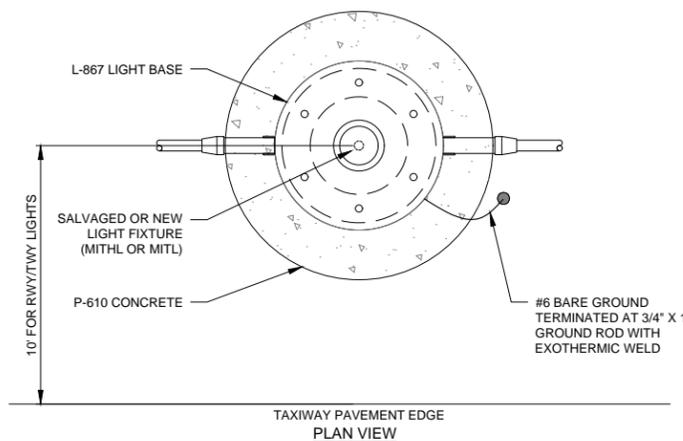
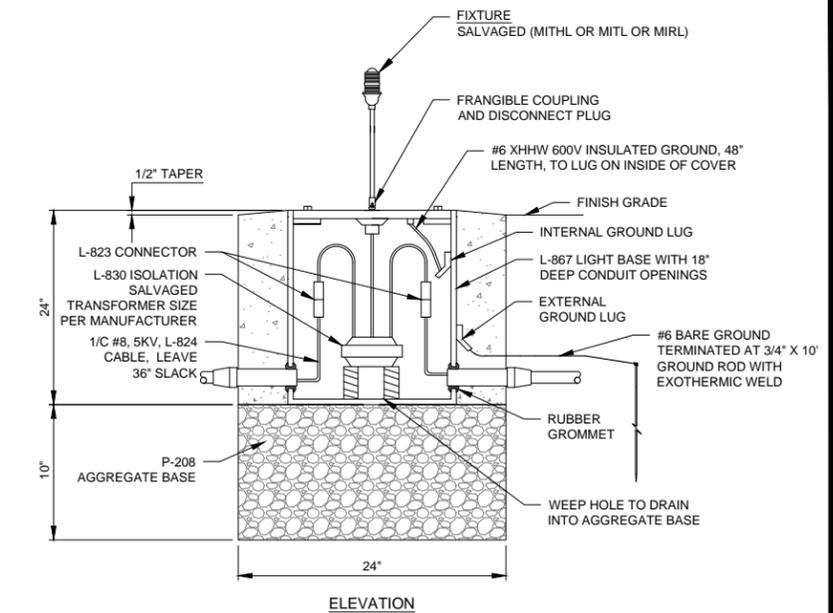
- NOTE:
- ALL SPLICES IN MANHOLES, IF ALLOWED, SHALL BE HEAT SHRINK TYPE, PER FIGURE B.

**3** CABLE SPLICE WATERPROOFING DETAILS  
NO SCALE



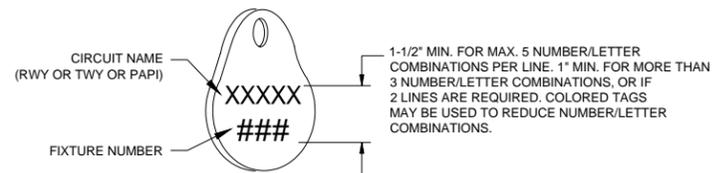
- NOTES:
- CONDUIT UNDER NEW PAVEMENT SHALL BE INSTALLED BEFORE THE PAVEMENT IS CONSTRUCTED.
  - CONCRETE ENCASED CONDUIT SHALL EXTEND A MIN. OF 5 FT. BEYOND ALL EDGES OF PAVEMENT.
  - COUNTERPOISE TO BE PLACED 4" ABOVE CONDUIT. COUNTERPOISE IS ROUTED ABOVE DUCT WHERE DUCT IS UNDER PAVEMENT OR NOT ADJACENT TO AND ROUTED PARALLEL TO PAVEMENT EDGE.

**4** ELECTRICAL TRENCH AND BACKFILL  
NO SCALE



- TYPICAL NOTES - ALL LIGHT BASES:
- ALL BOLTS SHALL BE STAINLESS STEEL.
  - APPLY ANTI-SEIZE COMPOUND TO ALL MALE THREADS.
  - PROVIDE FORMS AS NECESSARY FOR CONCRETE PLACEMENT. COST INCIDENTAL TO THE INSTALLATION.
  - ALL NEW BASE CANS SHALL HAVE INTERNAL AND EXTERNAL GROUND LUGS.
  - ALL CABLES INSIDE THE CAN SHALL HAVE 36" OF SLACK TO ALLOW FOR MAINTENANCE. CABLE SLACK IS INCIDENTAL TO CABLE INSTALLATION.
  - CONTRACTOR IS RESPONSIBLE FOR VERIFYING NUMBER, LOCATION, AND SIZE OF CONDUIT OPENINGS IN ALL BASE CANS.
  - ALL BASE CANS SHALL BE INSTALLED USING A "JIG". JIG SHALL HAVE FOUR ADJUSTABLE LEGS AND BE CAPABLE OF HOLDING CANS IN PLACE DURING CONCRETE PLACEMENT.
  - ALL MATERIALS AND WORK NECESSARY WHETHER SHOWN OR NOT IS INCIDENTAL TO THE INSTALLATION.

**1** TYPICAL NEW BASE CAN WITH RELOCATED EDGE OR THRESHOLD LIGHT  
NO SCALE



- NOTE:
- AFFIX NON-CORROSIVE NUMBERING TAG TO FIXTURE FACING RUNWAY/TAXIWAY WITH SET SCREW, WIRE TIE, OR METAL BAND. NUMBERS SHALL BE ENGRAVED FOR PERMANENT READABILITY.

**2** LIGHT FIXTURE IDENTIFICATION TAG  
NO SCALE



DATE SIGNED: 06/07/19

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ISSUED  
06/12/19 BID SET

NOT FOR CONSTRUCTION

AP NO: 3-06-0268-027-2019  
M&H NO: 2112200-160246.01  
DATE: JUNE 2019  
DESIGNED BY: KVG  
DRAWN BY: JTH  
CHECKED BY: DLA  
DO NOT SCALE DRAWINGS

SHEET CONTENTS  
ELECTRICAL DETAILS 1

SHEET NO. 28 of 30



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**CITY OF UKIAH**  
**RUNWAY 15-33 PAVEMENT**  
**REHABILITATION PHASE 1**  
 UKIAH MUNICIPAL AIRPORT  
 UKIAH, CALIFORNIA

ISSUED  
06/12/19 BID SET

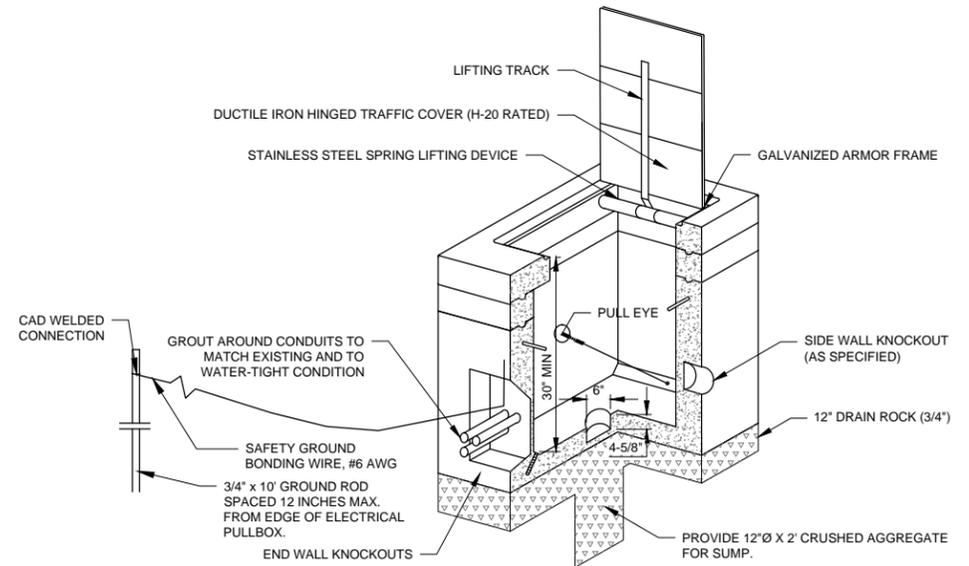
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SHEET CONTENTS  
ELECTRICAL DETAILS 2

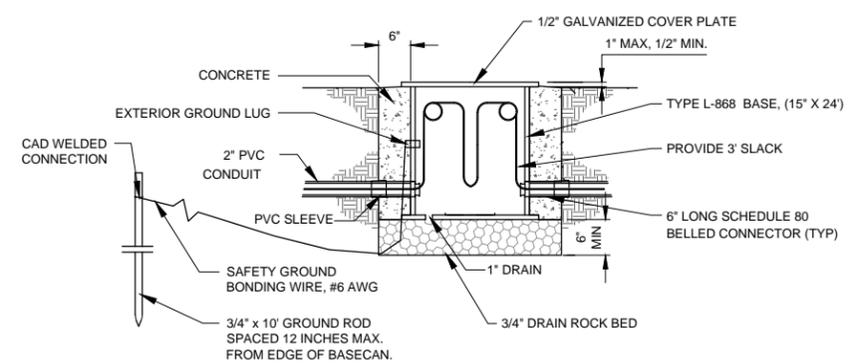
SHEET NO. 29 of 30

**E-602**

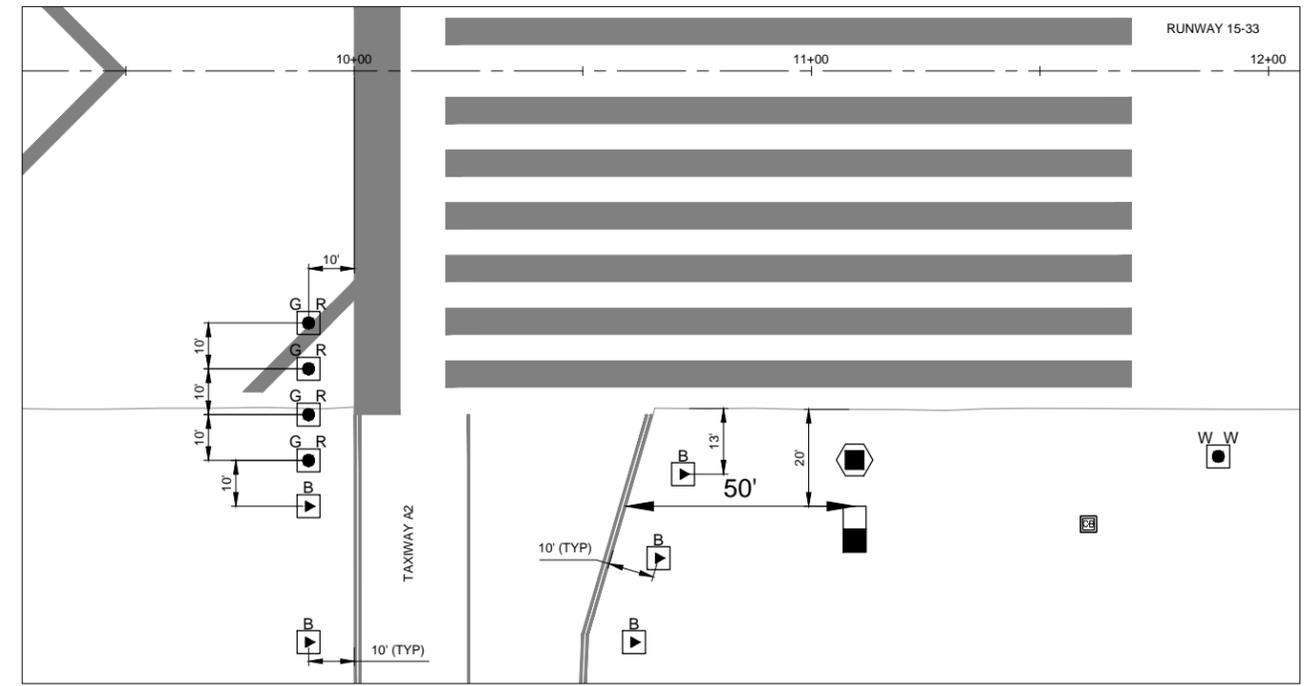


- NOTES:**
- PULLBOXES SHALL BE RATED FOR H-20 LOADING.
  - PROVIDE GALVANIZED CABLE RACK AND ARM.
  - MINIMUM INSIDE DIMENSIONS - SIZE 1: 24"x36"x30" DEEP
  - PULL BOXES SHALL BE SET 1" ABOVE ADJACENT GRADE. SHAPE GRADE AT PULL BOXES AS NECESSARY TO DRAIN AWAY.
  - PULLBOX COVERS SHALL BE SPRING LOADED.
  - PROVIDE END BELL AT EACH CONDUIT OPENING AND CAP UNUSED CONDUITS.

**1 ELECTRICAL PULLBOX - DISTRICT INSTALLED**  
NO SCALE



**5 JUNCTION CAN - DISTRICT INSTALLED**  
NO SCALE



- NOTE:**
- REPLICATE THRESHOLD EDGE LIGHT LAYOUT ON OTHER SIDE OF RUNWAY CENTERLINE.

**2 GENERAL AIRFIELD ELECTRICAL LAYOUT**  
NO SCALE

X:\21122001\60246.01\TECH\CAD\DRAWINGS\ELECTRICAL LAYOUT PLANDWG 6/7/2019 10:46:28 AM



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**CITY OF UKIAH  
RUNWAY 15-33 PAVEMENT  
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UKIAH, CALIFORNIA**

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06/12/19 BID SET

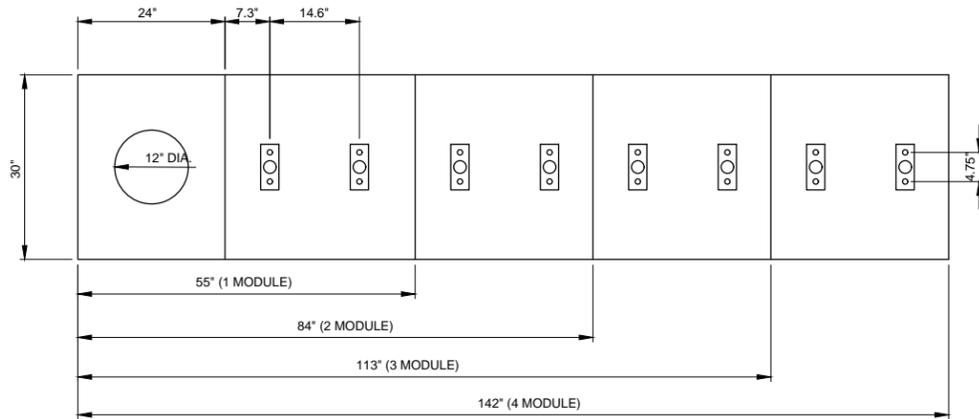
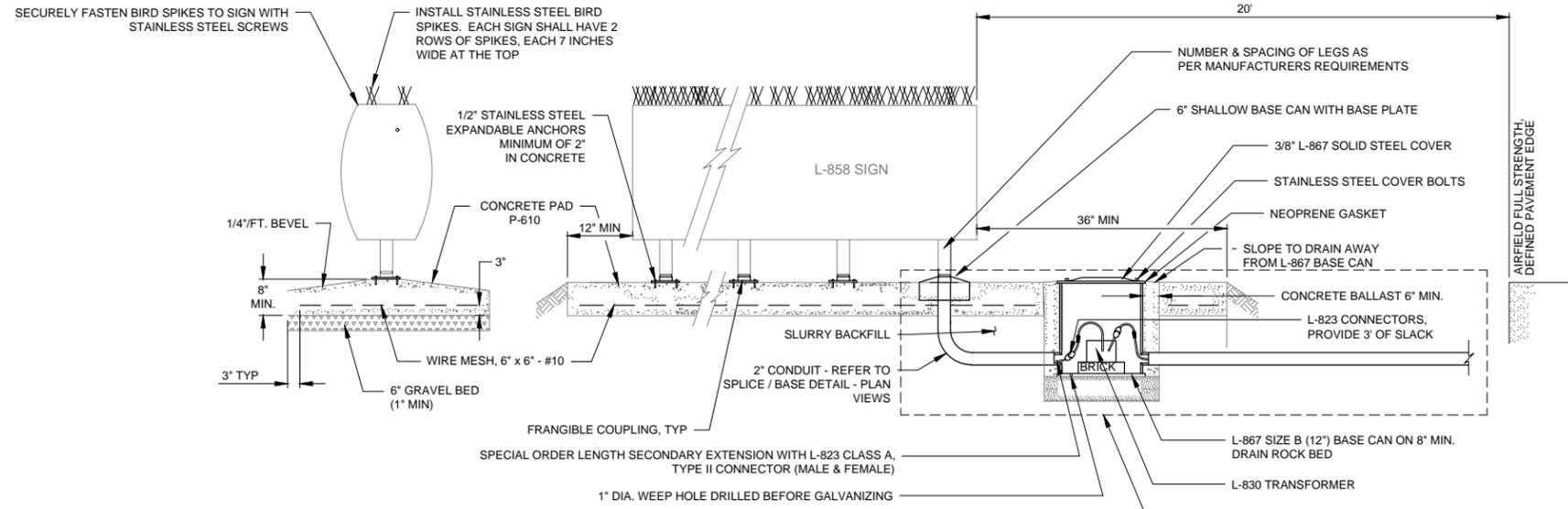
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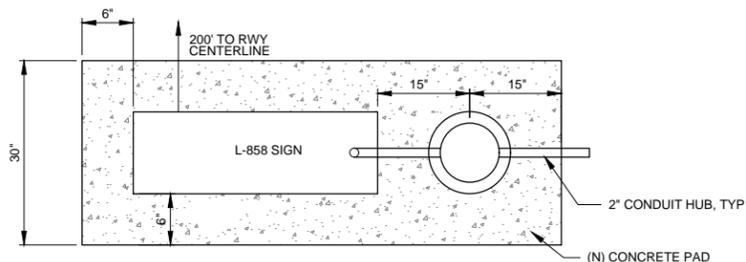
SHEET CONTENTS  
ELECTRICAL SIGN  
DETAILS

SHEET NO. 30 of 30

**E-603**



**2 (N) BASE PAD AND MOUNTING LOCATION (SIZE 1 SIGN)**  
NO SCALE



**1 GUIDANCE SIGN ON (N) PAD**  
NO SCALE

- GENERAL SIGN NOTES:**
1. FOLLOW MANUFACTURER'S RECOMMENDATION FOR L-823 CONNECTOR INSTALLATION.
  2. COUPLING WEEP HOLES SHALL NOT DRAIN TO THE OUTSIDE OF THE L-867 BASE CAN OR LID.
  3. PROVIDE ONE TETHER ON EACH END OF SIGN.
  4. INSTALL GROUND WIRE AND GROUND ROD TO EXTERIOR LUG ON L-867 BASE CAN SIMILAR TO ELEVATED RUNWAY EDGE LIGHT DETAIL.
  5. BOND SIGN METAL SURFACES TO LIGHT BASE GROUNDING LUG, USING #6 BARE COPPER WIRE.
  6. CONTRACTOR TO LAYOUT PROPOSED SIGN LOCATION FOR ENGINEER APPROVAL PRIOR TO POURING PAD.

**AIRFIELD GUIDANCE SIGN SCHEDULE**

SIGN NUMBER	SIGN GRAPHIC	LEGEND (NORTH SIDE)	LEGEND (SOUTH SIDE)	LEGEND (EAST SIDE)	LEGEND (WEST SIDE)	COLOR (NORTH SIDE)	COLOR (SOUTH SIDE)	COLOR (EAST SIDE)	COLOR (WEST SIDE)	SIZE	STYLE	CLASS	MODULES	CIRCUIT	SHEET NUMBER	NOTES
S1		[ ] [A2]				[B/Y]	[B]			1	2	2	2	RWY 15-33	E-201	INSTALL (N) L-858 SIGN & TRANSFORMER ON (N) BASE
S2				[A2] [15-] [33]	[HOLD BAR] [A2]			[Y/B] [W/R] [W/R]	[B/Y] [B/Y] [Y/B]	1	2	2	3	TWY A2	E-201	INSTALL (N) L-858 SIGN & TRANSFORMER ON (N) BASE

**SIGN COLOR CODE:**  
Y YELLOW  
B BLACK  
W WHITE  
R RED  
B/Y BLACK LETTERING ON YELLOW BACKGROUND  
Y/B YELLOW LETTERING ON BLACK BACKGROUND W/ YELLOW AND BLACK BORDER  
W/R WHITE LETTERING ON RED BACKGROUND  
W/B WHITE LETTERING ON BLACK BACKGROUND

**SIGN MODIFICATION NOTES:**

1. MODULE SIZES ARE GIVEN FOR ESTIMATIONS ONLY AND ARE SUBJECT TO CHANGE BY SIGN MANUFACTURER.
2. CONTRACTOR TO ORDER NEW AIRFIELD SIGN PANELS TO MATCH PROPOSED LEGEND.
3. PRIOR TO ORDERING ANY NEW PANELS THAT ARE TO BE SUPPLIED, THE CONTRACTOR MUST PROVIDE THE ENGINEER WITH MANUFACTURER'S SHOP DRAWINGS FOR APPROVAL. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING EXISTING LIGHTED SIGNS WILL ACCOMMODATE NEW LEGEND PANELS.

**3 ELECTRICAL SIGN LEGEND**  
NO SCALE