

# AUBURN PARK & RIDE LIGHTING

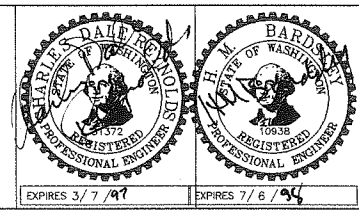
CONTRACT No.  
C65046C

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Source File: P:\PROJECTS\P&R\AUBURN\AIRPORT\1AIRG101

No.	REVISION	BY	APP'D	DATE



DESIGNED: *CR*  
C. REYNOLDS  
DRAWN: *CMS*  
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RECOMMENDED: *CR*  
C. REYNOLDS  
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J. MURRAY

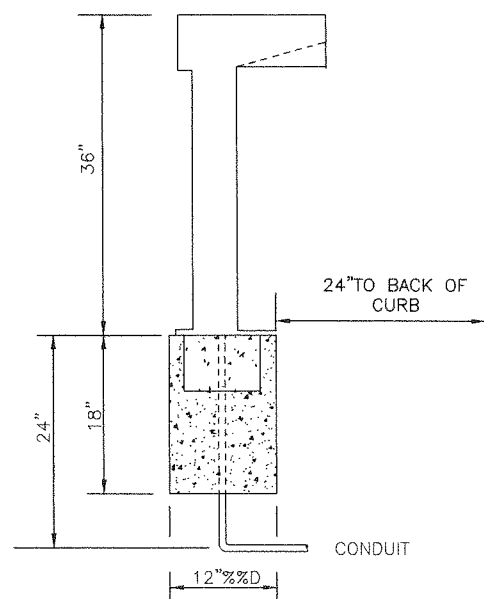
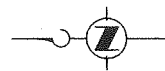
CHECKED: *MS*  
M. BARDSELY  
SCALE:  
NOTED  
CONTRACT NO:  
C65046C



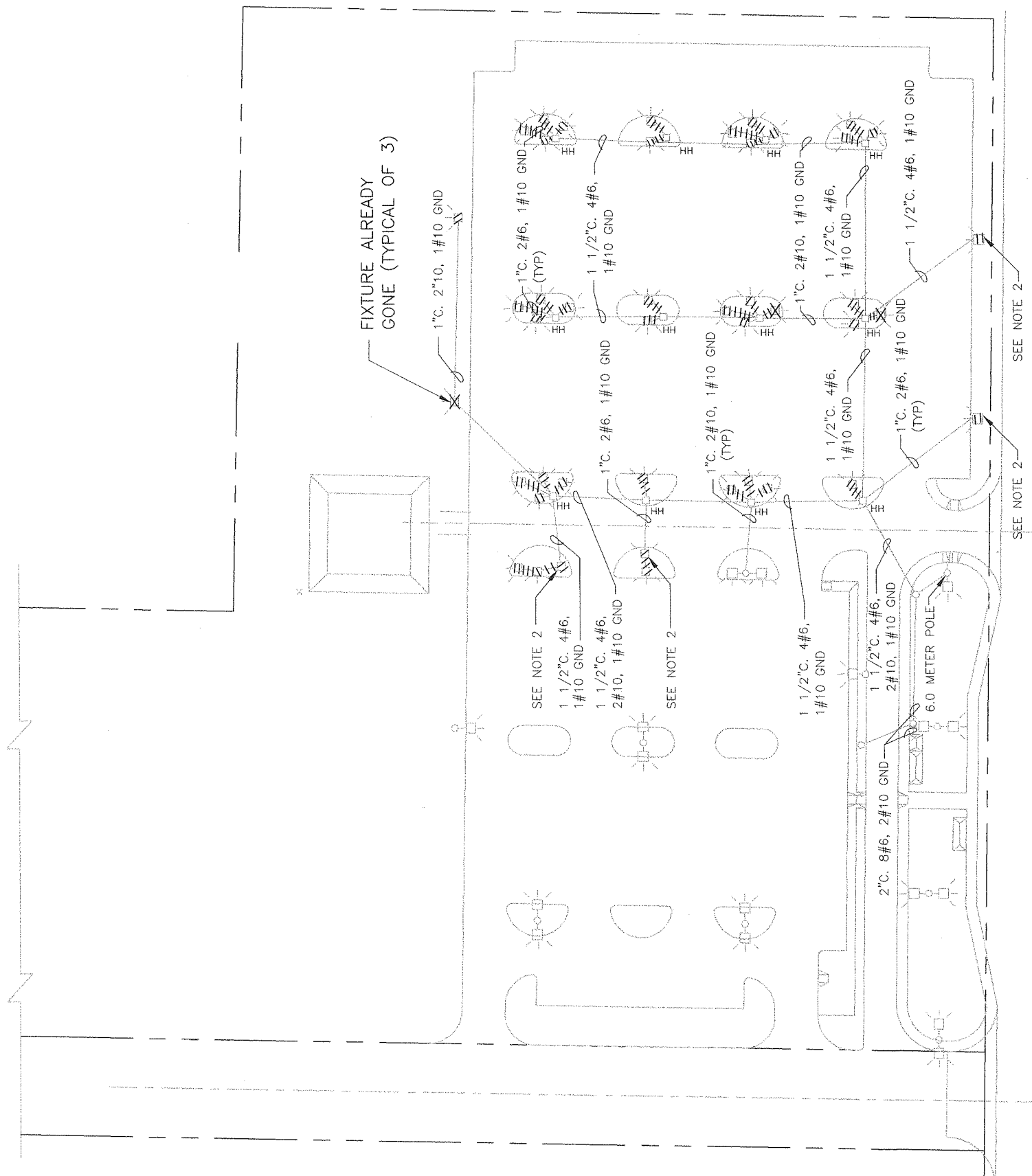
DEPARTMENT OF TRANSPORTATION  
AUBURN PARK & RIDE  
LIGHTING  
LOCATION, VICINITY MAPS  
& INDEX OF DRAWINGS

133435  
DATE: OCT 96  
FILE NO:  
DRAWING NO: G101  
SHEET NO. 1 OF 6

ONE INCH  
AT FULL SIZE, IF NOT ONE  
INCH SCALE ACCORDINGLY



DETAIL OF PEDESTAL TO BE REMOVED



**DEMOLITION NOTES:**

- 1.) THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL LOW LEVEL LIGHTING FIXTURES, POLES, AND CONCRETE FOUNDATIONS AS INDICATED ON THE DEMOLITION PLAN. ALL CONDUCTORS TO THE LOW-LEVEL LIGHTING SHALL BE REMOVED TO THE NEAREST HANDHOLE AND DISCONNECTED FROM THE MAIN RUNS. THE CONDUCTORS BETWEEN HAND HOLES SHALL BE LEFT IN PLACE. CONDUIT FROM THE HAND HOLE TO THE EXISTING LIGHT FOUNDATIONS SHALL BE ABANDONED IN PLACE.
- 2.) THE CONTRACTOR SHALL REMOVE THE CONCRETE BASE AND INTERCEPT THE CONDUIT AT THIS LOCATION AND INSTALL A NEW CONCRETE HANDHOLE.

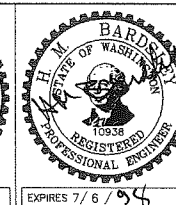
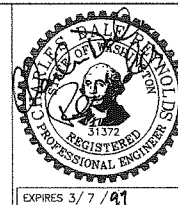
**LEGEND:**

- REMOVE EXISTING LIGHT FIXTURES AND CONDUIT
- EXISTING LIGHTS
- EXISTING HANDHOLE

**DEMOLITION LIGHTING PLAN**

Source File: P:\PROJECTS\P&R\AUBURN\AIRPORT\1AIRE101

No.	REVISION	BY	APP'D	DATE



DESIGNED: *CR*  
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APPROVED: *JM*  
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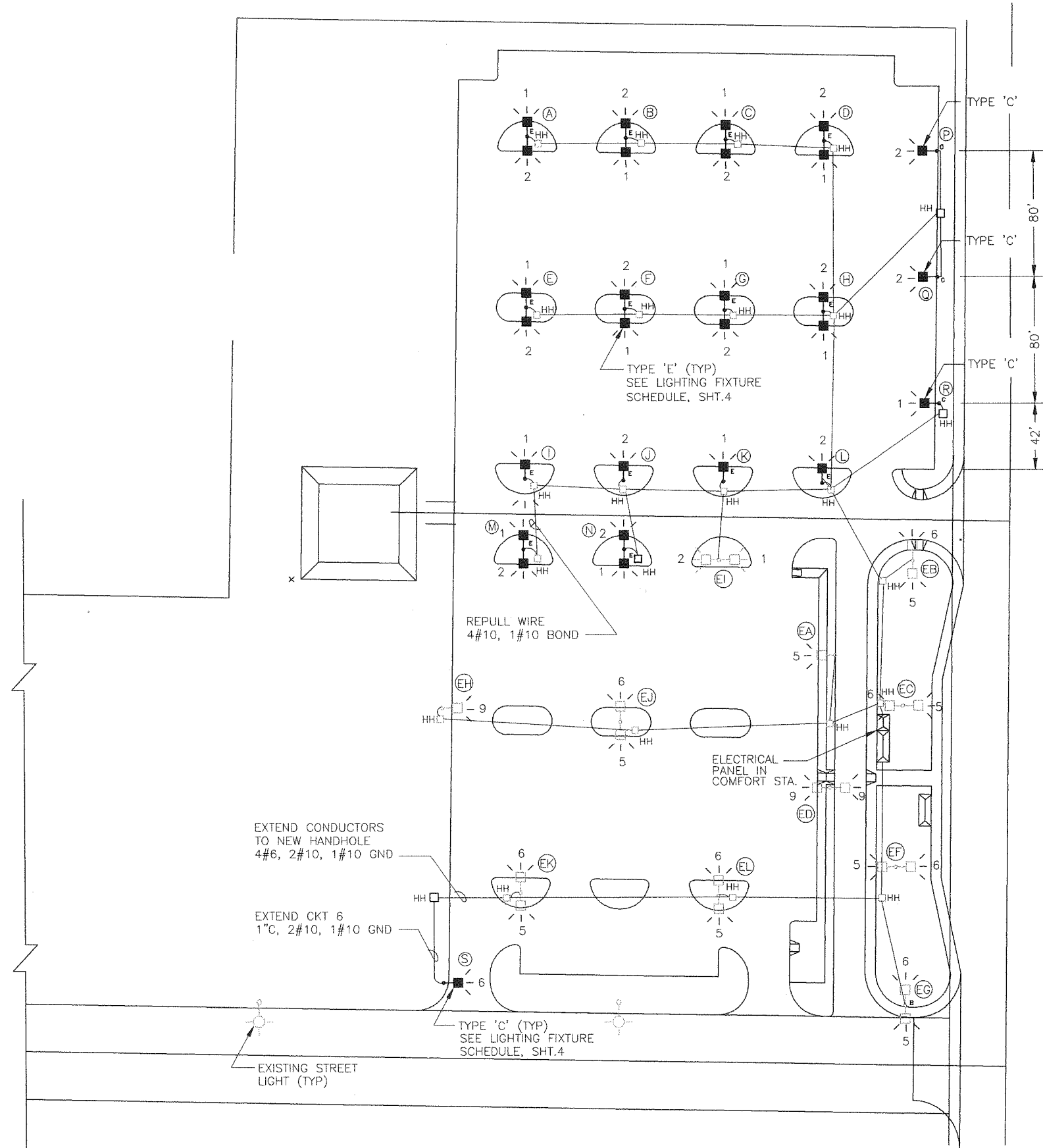
CHECKED: *MBS*  
M. BARDSLEY  
SCALE: 1" = 40'  
CONTRACT NO: C65046C



DEPARTMENT OF TRANSPORTATION  
AUBURN PARK & RIDE  
LIGHTING  
**AUBURN PARK & RIDE  
DEMOLITION LIGHTING PLAN**

<b>133436</b>
DATE: OCT 96
FILE NO:
DRAWING NO: E101
SHEET NO: 2 OF 6

ONE INCH  
AT FULL SIZE, IF NOT ONE  
INCH SCALE ACCORDINGLY



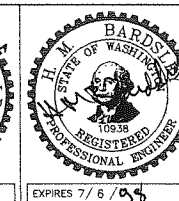
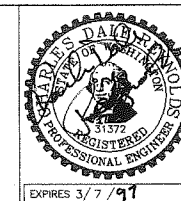
- CONSTRUCTION NOTES:**
- 1.) UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL CONDUCTORS SHALL BE THHN/THWN STRANDED COPPER (MINIMUM SIZE #10) INSTALLED IN 1-INCH CONDUIT.
  - 2.) THE CONTRACTOR SHALL INSTALL NEW CONDUIT AND WIRE FROM THE HANDHOLES THROUGH THE POLE FOUNDATIONS TO THE LIGHT FIXTURES (2#10 W/ 1#10 GROUND FOR THE SINGLE FIXTURE POLE OR 4#10 W/1#10 GROUND FOR THE DOUBLE FIXTURE POLES). ALL CONDUIT SHALL BE TERMINATED IN HANDHOLES OR POLE BASES. ALL SPLICING OF CONDUCTORS SHALL BE DONE WITH 3M/SCOTCHCAST RESIN SPLICING KITS, OR APPROVED EQUAL.
  - 3.) ALL NEW CONDUIT INSTALLED UNDERGROUND SHALL HAVE A MINIMUM OF 24 INCHES OF COVER AND SHALL BE RIGID GALVANIZED STEEL. TRENCHING SHALL BE DONE TO MINIMIZE THE DISRUPTION OF WELL TRAVELED TRAFFIC LANES. TRENCHES LEFT OPEN WHEN THE CONTRACTOR IS NOT ON THE JOB SITE, SHALL BE COVERED TO PREVENT ACCIDENT OR INJURY. (SEE DETAIL C, SHT 4).
  - 4.) THE HOLE FOR THE FOUNDATION SHALL BE AUGERED WITH THE CONCRETE POURED AGAINST UNDISTURBED EARTH. THE ABOVE GROUND PORTION OF THE FOUNDATION SHALL BE FORMED WITH A 24 INCH ROUND SONOTUBE. GROUT FINISH AFTER LIGHT POLE IS INSTALLED AND LEVELED. (SEE DETAIL B, SHT 4) ALL NEW POLES/FOUNDATIONS SHALL BE INSTALLED IN THE CENTER OF THE ISLAND OR 24 INCHES BEHIND BACK OF CURB WHEN NOT IN ISLAND.
  - 5.) DAMAGE TO THE IRRIGATION SYSTEM AS A RESULT OF THIS CONTRACT SHALL BE RESTORED BY THE CONTRACTOR TO ITS ORIGINAL FUNCTION (PIPE SHALL BE REROUTED AS NEEDED TO ASSURE THE OPERATION OF THE SYSTEM).

- LEGEND:**
- 2 - [Symbol] 1 NEW LIGHTS (DOUBLE) (#'S INDICATE CIRCUIT DESIGNATION)
  - 1 - [Symbol] NEW LIGHTS (SINGLE)
  - [Symbol] HH NEW HAND HOLD
  - [Symbol] EXISTING LIGHT POLES & FIXTURES
  - [Symbol] HH EXISTING HANDHOLE
  - [Symbol] POLE IDENTIFICATION  
X = A, B, C, ... (NEW POLES)  
XX = EA, EB, EC, ... (EXISTING POLES)

**LIGHTING PLAN**

Source File: P:\PROJECTS\P&R\AUBURN\AIRPORT\1AIRE102

No.	REVISION	BY	APP'D	DATE



DESIGNED: C. REYNOLDS  
 CHECKED: M. BARDSLEY  
 DRAWN: CMS  
 RECOMMENDER: C. REYNOLDS  
 APPROVED: J. MURRAY  
 SCALE: 1" = 40'  
 CONTRACT NO: C65046C

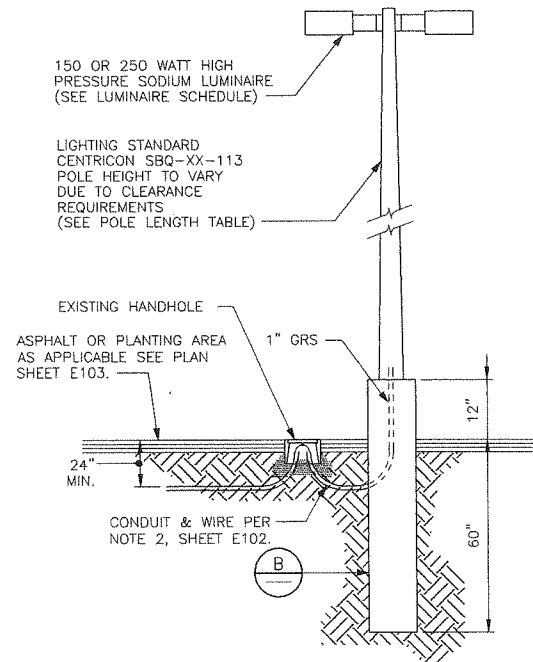


DEPARTMENT OF TRANSPORTATION  
 AUBURN PARK & RIDE  
 LIGHTING  
**AUBURN PARK & RIDE  
 LIGHTING PLAN**

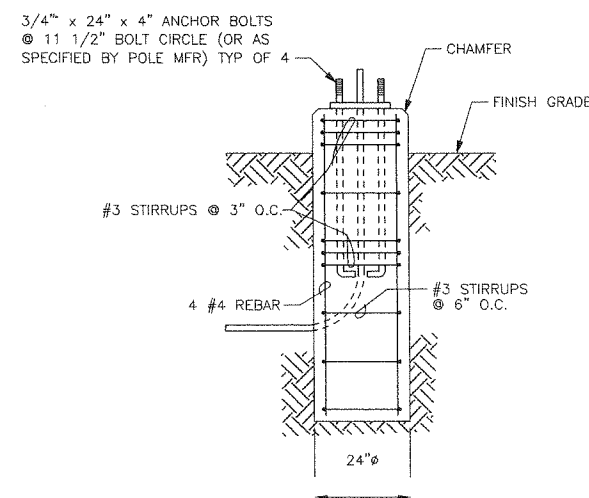
**133437**  
 DATE: OCT 96  
 FILE NO:  
 DRAWING NO: E102  
 SHEET NO: 3 OF 6

ONE INCH  
 AT FULL SIZE, IF NOT ONE  
 INCH SCALE ACCORDINGLY

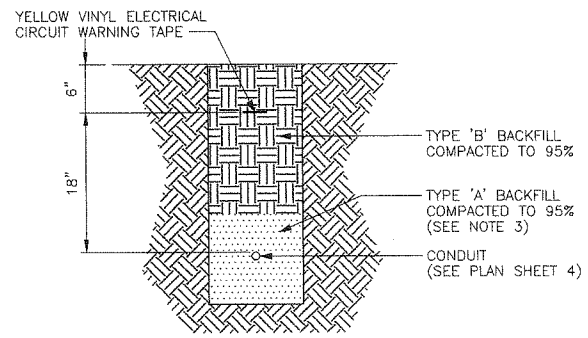
LIGHTING FIXTURE SCHEDULE						
TYPE	DESCRIPTION	VOLTAGE	WATTAGE	MFG/NUMBER	LAMP	MOUNTING
C	HOUSING AND MOUNTING ARM SHALL BE CONSTRUCTED OF ALUMINUM, WITH A GLASS LENS, IES TYPE III DISTRIBUTION OPTICS, WITH A LIGHT BRONZE, BAKED ENAMEL EXTERIOR FINISH. (SEE SPECIFICATION FOR FURTHER DETAILS)	240V	250W HPS	STERNER LIGHTING #EX-20-A-10-3-FL-250-S-240-A (SINGLE ARM)	E18	POLE/MAST ARM
E	HOUSING AND MOUNTING ARM SHALL BE CONSTRUCTED OF ALUMINUM, WITH A GLASS LENS, A FORWARD THROW DISTRIBUTION PATTERN OPTICS, WITH A LIGHT BRONZE, BAKED ENAMEL EXTERIOR FINISH AND A 12 DEGREE TILT (SEE SPECIFICATION FOR FURTHER DETAILS)	240	150W HPS	STERNER LIGHTING #EX-20-A-10-F-FL-150-S-240-A (SINGLE ARM)	E18	POLE/MAST ARM W/A 12 DEGREE TILT



DETAIL A  
SCALE: 1/4" = 1'-0"



FOUNDATION DETAIL B  
SCALE: 1/2" = 1'-0"



TRENCH DETAIL C  
SCALE: 1" = 1'-0"

TABLE 1 - POLE LENGTH TABLE AND LUMINAIRE SCHEDULE

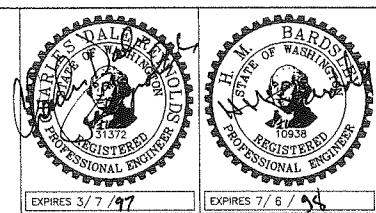
POLE TAG	NEW/EXISTING	WATTAGE	* FIXTURE TAG	FIXTURE QUANTITY	IES TYPE/SOURCE	MTG. HEIGHT	AMERON/CENTRICON #
EA	EXISTING	400W	A	1	III-HPS	27 FT.	MBQ-8.5
EB	EXISTING	400W	A	2	III-HPS	27 FT.	MBQ-8.5
EC	EXISTING	400W	A	2	III-HPS	27 FT.	MBQ-8.5
ED	EXISTING	400W	A	2	III-HPS	27 FT.	MBQ-8.5
EF	EXISTING	400W	A	2	III-HPS	27 FT.	MBQ-8.5
EG	EXISTING	400W	A	2	III-HPS	27 FT.	MBQ-8.5
EH	EXISTING	250W	C	1	III-HPS	25 FT.	MBQ-8
EI	EXISTING	250W	C	2	III-HPS	25 FT.	MBQ-8
EJ	EXISTING	250W	C	2	III-HPS	25 FT.	MBQ-8
EK	EXISTING	250W	C	2	III-HPS	25 FT.	MBQ-8
EL	EXISTING	250W	C	2	III-HPS	25 FT.	MBQ-8
A	NEW	150W	E	2	FT/HPS	8.5 FT.	
B	NEW	150W	E	2	FT/HPS	11 FT.	
C	NEW	150W	E	2	FT/HPS	13 FT.	SBQ-4
D	NEW	150W	E	2	FT/HPS	16.5 FT.	SBQ-5
E	NEW	150W	E	2	FT/HPS	8.5 FT.	
F	NEW	150W	E	2	FT/HPS	11 FT.	
G	NEW	150W	E	2	FT/HPS	13 FT.	SBQ-4
H	NEW	150W	E	2	FT/HPS	16.5 FT.	SBQ-5
I	NEW	150W	E	1	FT/HPS	10 FT.	
J	NEW	150W	E	1	FT/HPS	13 FT.	SBQ-4
K	NEW	150W	E	1	FT/HPS	15 FT.	
L	NEW	150W	E	1	FT/HPS	16.5 FT.	SBQ-5
M	NEW	150W	E	2	FT/HPS	15.5 FT.	
N	NEW	150W	E	2	FT/HPS	17.5 FT.	
P	NEW	250W	C	1	III-HPS	20 FT.	SBQ-6
Q	NEW	250W	C	1	III-HPS	20 FT.	SBQ-6
R	NEW	250W	C	1	III-HPS	20 FT.	SBQ-6
S	NEW	250W	C	1	III-HPS	25 FT.	MBQ-7.5

\* SEE LIGHTING FIXTURE SCHEDULE FOR NEW FIXTURE CALLOUTS

ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

Source File: P:\PROJECTS\P&R\AUBURN\AIRPORT\1GXxE101

No.	REVISION	BY	APP'D	DATE



DESIGNED: C. REYNOLDS  
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APPROVED: J. MURRAY

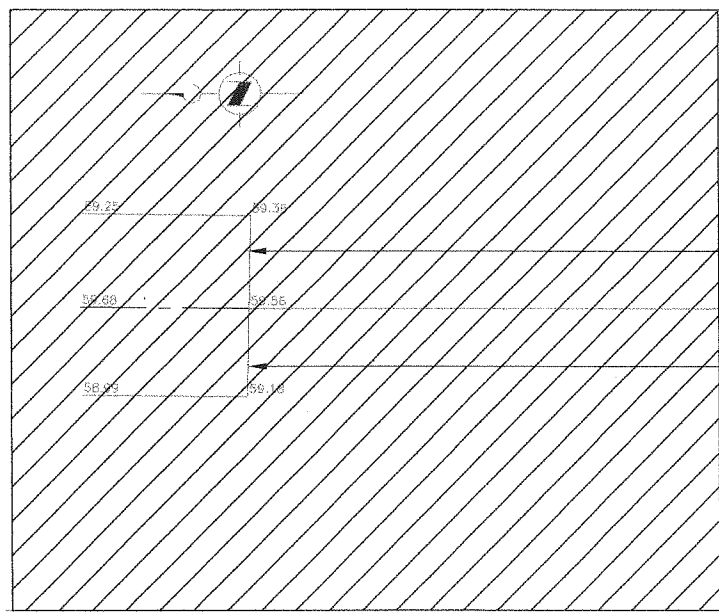
CHECKED: M. BARDSLEY  
SCALE: NOTED  
CONTRACT NO: C65046C



DEPARTMENT OF TRANSPORTATION  
AUBURN PARK & RIDE  
LIGHTING  
ELECTRICAL DETAILS  
& POLE REQUIREMENTS

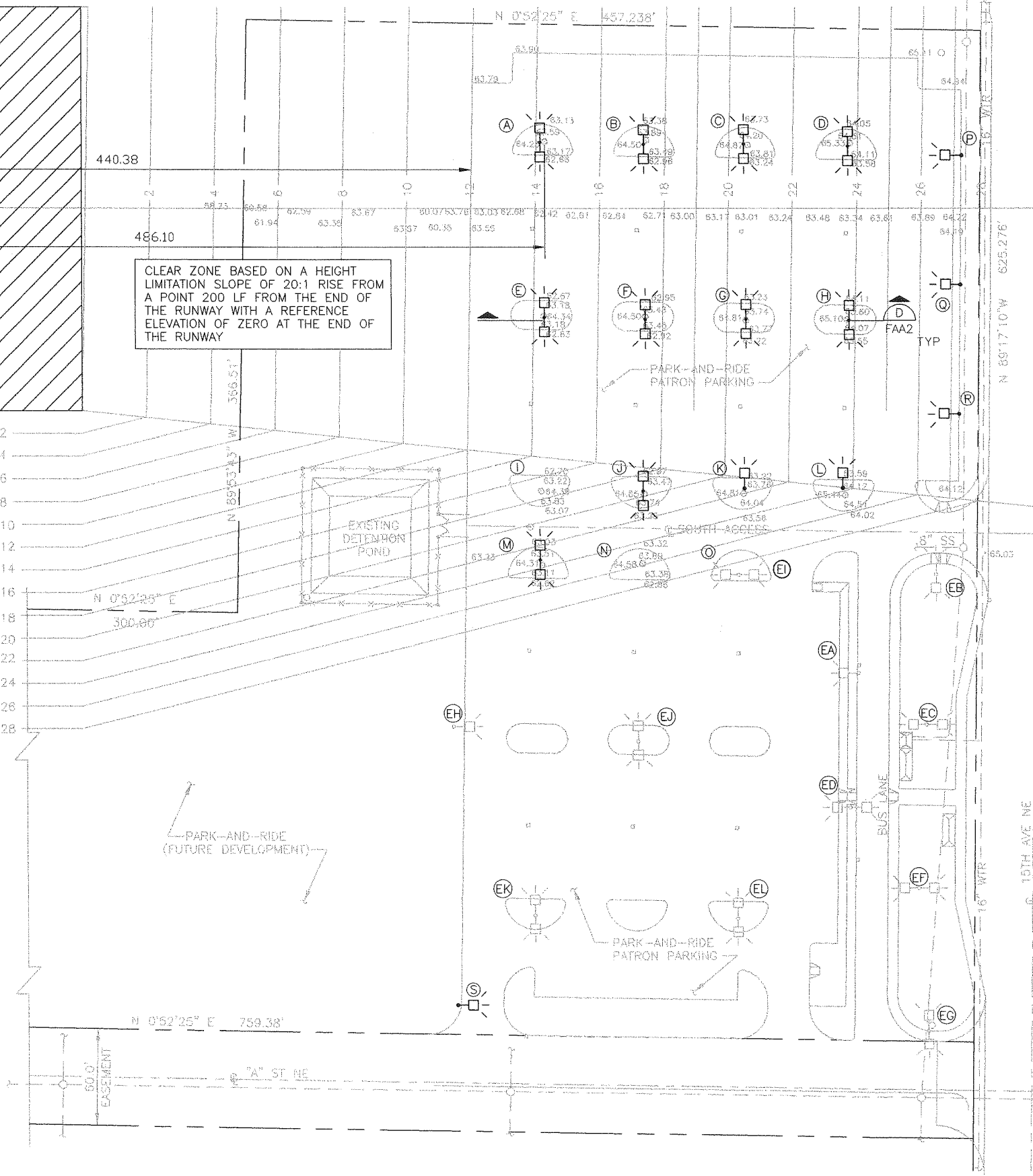
133438  
DATE: OCT 96  
FILE NO:  
DRAWING NO: E103  
SHEET NO: 4 OF 6

Plotted 11/01/94 @ 11:36



CLEAR ZONE BASED ON A HEIGHT LIMITATION SLOPE OF 20:1 RISE FROM A POINT 200 LF FROM THE END OF THE RUNWAY WITH A REFERENCE ELEVATION OF ZERO AT THE END OF THE RUNWAY

CLEAR ZONE BASED ON A HEIGHT LIMITATION SLOPE OF 7:1 RISE FROM A ZERO HEIGHT ZONE 250 FEET WIDE CENTERED ON THE RUNWAY



DATA ON THESE SHEETS PREPARED FOR AND SUBMITTED TO THE FEDERAL AVIATION ADMINISTRATION (FAA)  
AERONAUTICAL STUDY  
#96-ANM-0537-0E

LEGEND

- EXISTING LIGHTS
- EXISTING LIGHTS
- EXISTING HAND HOLD
- PROPOSED LIGHTS
- PROPOSED LIGHTS

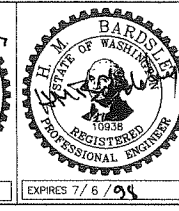
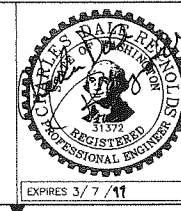
AUBURN PARK & RIDE  
SITE PLAN (A)  
SCALE: 1"=40'

ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

Source File: P:\PROJECTS\P&R\AUBURN\AIRPORT\1AIRFAA1

No.	REVISION	BY	APP'D	DATE

**FOR REFERENCE ONLY**



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SCALE: 1" = 40'  
CONTRACT NO: C65046C

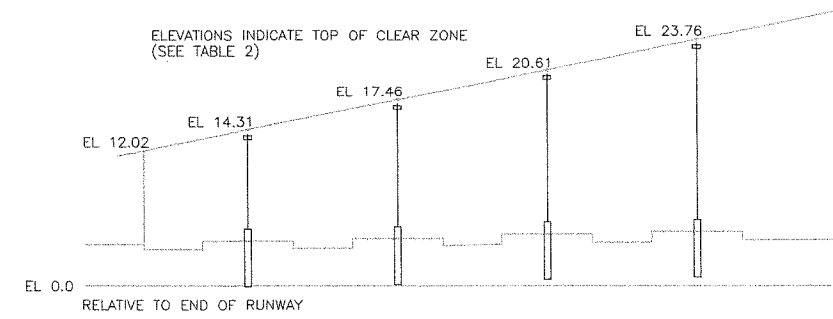


DEPARTMENT OF TRANSPORTATION  
AUBURN PARK & RIDE  
LIGHTING  
SITE PLAN W/ FAA CLEAR  
ZONE REQUIREMENTS

133439  
DATE: OCT 96  
FILE NO:  
DRAWING NO: FAA1  
SHEET NO: 5 OF 6

TABLE 2 - CLEAR ZONE REQUIREMENTS & POLE LENGTHS

	ISLAND TAG	BASE ELEVATION	DISTANCE FROM THE END OF THE RUNWAY	CALCULATED CLEAR-ZONE ELEVATION	CLEAR-ZONE ELEVATION	ADJUSTED MAX. POLE HEIGHT	FOUNDATION HEIGHT AFG	POLE LENGTH
CENTER/END OF RUNWAY		59.56	0.00		59.56			
EAST SECTION EAST END ISLANDS								
CENTER OF NORTH ISLAND	A	64.26	486.10	14.31	73.87	9.61	1	8.50
	B	64.53	549.10	17.46	77.02	12.49	1	11.00
	C	64.90	612.10	20.61	80.17	15.27	1	14.00
CENTER OF SOUTH ISLAND	D	65.36	675.10	23.76	83.32	17.96	1	16.50
EAST SECTION CENTER ISLANDS								
CENTER OF NORTH ISLAND	E	64.37	486.10	14.31	73.87	9.50	1	8.50
	F	64.53	549.10	17.46	77.02	12.49	1	11.00
	G	64.84	612.10	20.61	80.17	15.33	1	14.00
CENTER OF SOUTH ISLAND	G	65.13	675.10	23.76	83.32	18.19	1	17.00
EAST SECTION WEST ISLANDS								
CENTER OF NORTH ISLAND	I	64.41	486.10	16.50	76.06	11.65	1	10.00
	J	64.88	549.10	19.50	79.06	14.18	1	13.00
	K	64.84	612.10	22.00	81.56	16.72	1	15.00
CENTER OF SOUTH ISLAND	L	65.37	675.10	24.00	83.56	18.19	1	17.00
WEST SECTION EAST ISLANDS								
CENTER OF NORTH ISLAND	M	64.34	486.10	21.50	81.06	16.72	1	15.50
	N	64.61	549.10	24.00	83.56	18.95	1	17.50
EAST SECTION-SOUTH PERIMETER								
EAST	P	64.94	740.10	27.01	86.57	21.63	1	20.00
CENTER	Q	64.94	740.10	27.01	86.57	21.63	1	20.00
WEST	R	64.94	740.10	27.01	86.57	21.63	1	20.00
NW ENTRANCE								
	S	64.50	626.00	52.00	111.56	47.06	1	25.00



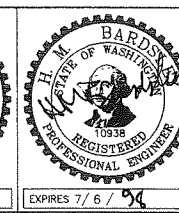
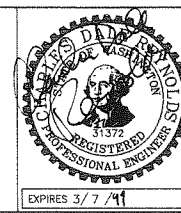
DETAIL  
 SCALE: 1"=40' (HORIZ)  
 1"=10' (VERT)



ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

Source File: P:\PROJECTS\P&R\AUBURN\AIRPORT\1AIRFAA2

FOR REFERENCE ONLY



DESIGNED: *CRM*  
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 DRAWN: *CMS*  
 CMS  
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 APPROVED: *JM*  
 J. MURRAY

CHECKED: *WBS*  
 M. BARDSLEY  
 SCALE:  
 NOTED  
 CONTRACT NO:  
 C65046C



DEPARTMENT OF TRANSPORTATION  
 AUBURN PARK & RIDE  
 LIGHTING  
**CLEAR ZONE  
 POLE REQUIREMENTS**

**133440**  
 DATE: OCT 96  
 FILE NO:  
 DRAWING NO: FAA2  
 SHEET NO: 6 OF 6

No.	REVISION	BY	APP'D	DATE

Plotted: 11/01/94 @ 11:35