

LEE VINING AIRPORT RUNWAY RECONSTRUCTION

LEE VINING, CALIFORNIA

MAY 2010
AIP # 3-06-0119-06
PBS&J JOB #058712110

SHEET 1 OF 49

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6	RUNWAY PLAN & PROFILE STATION 15+00 TO 21+50
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46	AIRFIELD LIGHTING VAULT
47	AIRFIELD LIGHTING VAULT
48	AIRFIELD LIGHTING VAULT
49	AIRFIELD LIGHTING VAULT



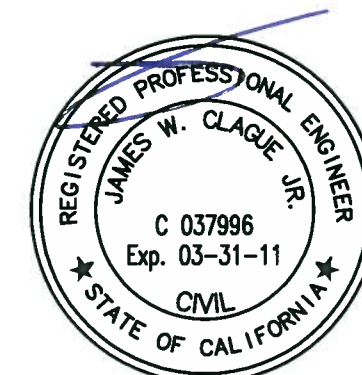
VICINITY MAP
N.T.S.



LOCATION MAP
N.T.S.

BOARD OF SUPERVISORS

CHAIRMAN	BILL REID
SUPERVISOR	VIKKI BAUER
SUPERVISOR	DUANE "HAP" HAZARD
SUPERVISOR	TOM FARNETTI
SUPERVISOR	BYNG HUNT
PUBLIC WORKS DIRECTOR	EVAN NIKIRK
PUBLIC WORKS	KELLY GARCIA
ASSISTANT DIRECTOR	



ISSUED FOR
CONSTRUCTION

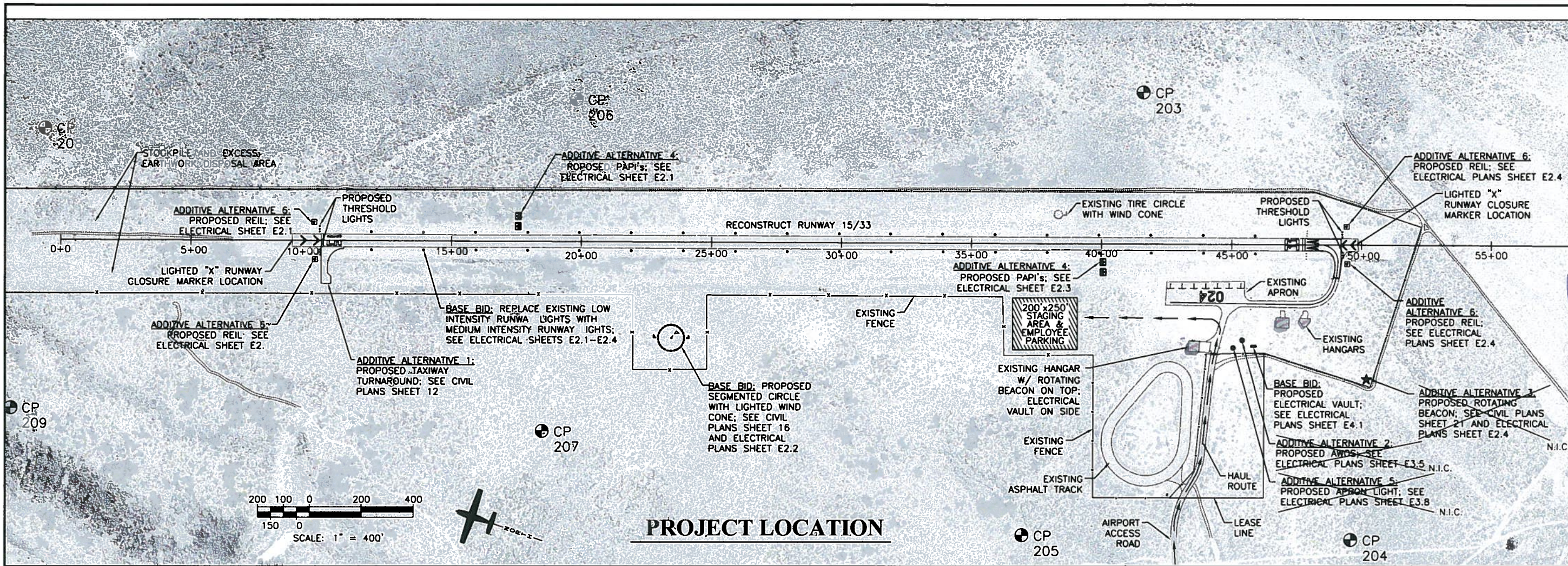
5/6/10



555 Double Eagle Court
Suite 2000
Reno, Nevada 89521
Telephone: 775/828-1622
Fax: 775/828-1826

ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

X:\Mono County Airports\Lee Vining\Cadd\Runway Reconstruction\Sheets\Construction Set\02 Site Plan.dwg
 May 06, 2010 - 12:23pm



PROJECT LOCATION

GENERAL NOTES

- 1.) THE CONTRACTOR SHALL COORDINATE WORK ON THE AIRPORT AND INTERRUPTIONS OF AIRPORT OPERATIONS WITH MONO COUNTY.
- 2.) THE RUNWAY SHALL BE CLOSED DURING THE RECONSTRUCTION OF THE RUNWAY AND REOPENED FOR OPERATION WHEN THE RUNWAY IS READY FOR USE AND APPROVED BY THE ENGINEER. SEE SHEET 20 FOR DETAILS.
- 3.) THE CONTRACTOR SHALL NOTIFY MONO COUNTY A MINIMUM OF 48 HOURS PRIOR TO ANY WORK WITHIN THE RUNWAY RESTRICTED AREAS.
- 4.) ANY WORK WITHIN 200 FEET OF THE END OF AN ACTIVE RUNWAY WILL REQUIRE CLOSURE OR A DISPLACED THRESHOLD. PLACEMENT OF A DISPLACED THRESHOLD SHALL BE PREVIOUSLY APPROVED BY THE ENGINEER.
- 5.) EMPLOYEES, EQUIPMENT, OR OTHER CONSTRUCTION-RELATED MATERIALS WILL NOT BE PERMITTED CLOSER THAN 75- FEET FROM THE EDGE OF AN ACTIVE RUNWAY. THE RUNWAY SHALL BE CLOSED OR DISPLACED WHENEVER WORK IS PERFORMED WITHIN 75- FEET FROM THE EDGE OF PAVEMENT.
- 6.) UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATIONS OF THE EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- 7.) CARE SHALL BE TAKEN TO PREVENT DAMAGE TO EXISTING IMPROVEMENTS AND UTILITIES. ANY DAMAGED FACILITIES SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 8.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ALL EXISTING SURVEY MONUMENTS AND SHALL REPLACE ANY MONUMENTS OBLITERATED OR DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. REPLACEMENT OF ANY MONUMENTS SHALL BE DONE BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF CALIFORNIA.
- 9.) THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA.
- 10.) CONTRACTOR SHALL NOT ALLOW COMPACTION AND OFF-HIGHWAY EARTHWORK EQUIPMENT TO TRAVEL ON OR CROSS EXISTING PAVEMENT AREAS EXCEPT AS ABSOLUTELY NECESSARY AND ONLY WITH VEHICLES HAVING RUBBER TIRES, AS APPROVED BY THE ENGINEER.
- 11.) THE CONTRACTOR SHALL PROVIDE EROSION CONTROL AND DUST CONTROL AS REQUIRED DURING CONSTRUCTION.
- 12.) PAVEMENT SURFACES THAT WILL RECEIVE FOG SEAL SHALL BE CLEANED OF ALL LOOSE MATERIAL INCLUDING DIRT AND OTHER OBJECTIONABLE OBJECTS. CLEANING SHALL BE ACCOMPLISHED BY SWEEPING AND BLOWING OR BY OTHER METHODS APPROVED BY THE OWNER.
- 13.) ALL EQUIPMENT OPERATING DURING DAYLIGHT HOURS SHALL BE EQUIPPED WITH AN ORANGE AND WHITE CHECKERED FLAG OR A FLASHING AMBER BEACON ATTACHED TO IT.
- 14.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY MARKINGS AND EQUIPMENT.
- 15.) ALL TRASH SHALL BE PLACED IN WASTER CONTAINERS TO PREVENT THE ATTRACTION OF WILDLIFE. LIDS ON WASTE CONTAINERS SHALL BE CLOSED AT ALL TIMES. NO GARBAGE SHALL BE LEFT ONSITE.
- 16.) AT THE DIRECTION OF THE AIRPORT, THE CONTRACTOR FOREMAN, OR AUTHORIZED AGENCIES, CONSTRUCTION SHALL BE SUSPENDED AT ANY TIME FOR AIRCRAFT EMERGENCIES LOCATED AT THE AIRPORT. ALL EQUIPMENT AND WORKERS SHALL EGRESS THE CONSTRUCTION SITE AND RETURN TO THE STAGING AREA UNLESS OTHERWISE DIRECTED BY THE AIRPORT OR AUTHORIZED AGENCIES.
- 17.) THE CONTRACTOR SHALL MEET ALL REQUIREMENTS PROVIDED IN SPECIAL PROVISION NO. 11 SAFETY AND SECURITY.

SURVEY CONTROL POINTS

POINT	NORTHING	EASTING	ELEVATION
203	2173243.58	6964546.89	3210.05
204	2171927.46	6963183.03	6890.63
205	2173130.07	6962787.67	6872.65
206	2175294.61	6963810.12	6847.37
207	2175006.16	6962564.67	6852.35
208	2177191.38	6963044.97	6787.12
209	2176969.22	6961986.34	6784.75

AIRPORT COMMUNICATION

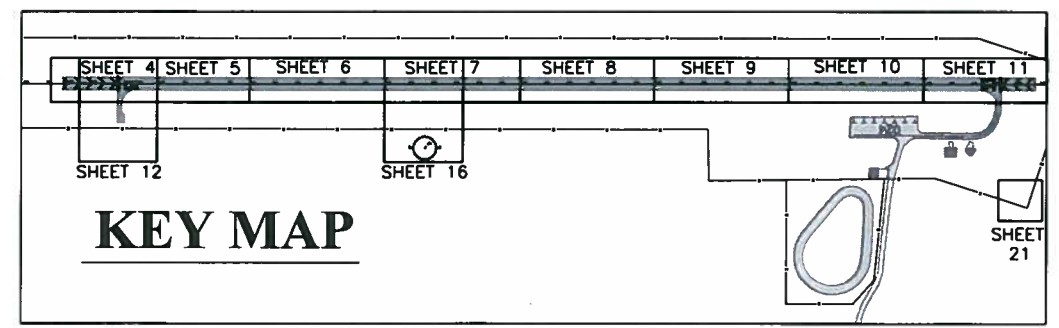
GROUND CONTROL FREQUENCY-122.9
 AIR CONTROL FREQUENCY-122.9
 MAXIMUM HEIGHT OF EQUIPMENT-N/A (CLOSED RUNWAY)
 MONO COUNTY PUBLIC WORKS-#(760) 932-5440
 EMERGENCY-#911 (THERE ARE NO PHONES LOCATED ONSITE)

BASE BID

- RECONSTRUCTION RUNWAY 15/33
- INSTALL MEDIUM INTENSITY RUNWAY LIGHTS
- INSTALL LIGHTED HOLD SIGN FOR EXISTING TAXIWAY A
- CONSTRUCT ELECTRICAL VAULT
- CONSTRUCT SEGMENTED CIRCLE WITH LIGHTED WIND CONE

ADDITIVE ALTERNATIVES

- ADDITIVE ALTERNATIVE 1: CONSTRUCT TAXIWAY TURNAROUND AND INSTALL LIGHTED HOLD SIGN
- N.I.C. - ~~ADDITIVE ALTERNATIVE 2: INSTALL AWOS~~
- N.I.C. - ~~ADDITIVE ALTERNATIVE 3: INSTALL BEACON POLE AND ROTATING BEACON~~
- ADDITIVE ALTERNATIVE 4: INSTALL PAPI'S
- N.I.C. - ~~ADDITIVE ALTERNATIVE 5: INSTALL APRON LIGHT~~
- ADDITIVE ALTERNATIVE 6: INSTALL REIL'S
- N.I.C. - ~~ADDITIVE ALTERNATIVE 7: INSTALL DISTANCE REMAINING SIGNS~~



KEY MAP

REVISIONS
 CHECKED
 APPD
 DATE
 DESCRIPTION
 PROJECT NUMBER: 058712110
 SCALE: 1" = 400'
 DESIGN BY: JWC
 DRAWN BY: MMB
 DATE: 05/10
 CHECKED BY: JWC
 PROJECT: LEE VINING AIRPORT RUNWAY RECONSTRUCTION
 SHEET: 2 OF 49
 ISSUED FOR CONSTRUCTION
 ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES
PBS
 535 Double Eagle Court
 Reno, Nevada, 89521
 Phone: 775/782-6822
 Fax: 775/782-6828
 2
 SHEET 2 OF 49
 ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES
 ISSUED FOR CONSTRUCTION

CALL USA

LOCATE EXISTING UTILITIES. CALL USA
AT 1-800-227-2600 48 HOURS
PRIOR TO CONSTRUCTION.

REMOVE RUNWAY
LIGHTS (TYP.)

REMOVE THRESHOLD
LIGHTS (TYP.)


REMOVE EXISTING RUNWAY
PAVEMENT (TYP.)

REMOVE RUNWAY
LIGHTS (TYP.)

QUANTITIES

BASE BID:
PAVEMENT REMOVAL = 22,590 S.Y.
CLEARING AND GRUBBING = 28.73 ACRES
TIRE SEGMENTED CIRCLE REMOVAL = 1 L.S.
WIND CONE REMOVAL = 1 L.S.

LEGEND

 PAVEMENT REMOVAL
(22,590 SY)



HORIZ. SCALE: 1"=100'



REMOVE RUNWAY
LIGHTS (TYP.)

REMOVE EXISTING RUNWAY
PAVEMENT (TYP.)

REMOVE RUNWAY
LIGHTS (TYP.)

REMOVE EXISTING TIRE
SEGMENTED CIRCLE AND
WIND CONE

REMOVE RUNWAY
LIGHTS (TYP.)

REMOVE THRESHOLD
LIGHTS (TYP.)

REMOVE OVERRUN
PAVEMENT

REMOVE RUNWAY
LIGHTS (TYP.)

REMOVE EXISTING RUNWAY
PAVEMENT (TYP.)

108.4'
SEE SHEET 11

REMOVE TAXIWAY
LIGHTS
SAWCUT EXISTING
PAVEMENT

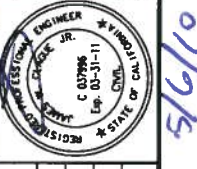
REMOVE TAXIWAY
LIGHTS (TYP.)

REMOVE TAXIWAY
LIGHTS (TYP.)

NOTES:

- SEE ELECTRICAL SHEETS E1.1-E1.4 FOR ELECTRICAL DEMOLITION PLANS.
- CLEARING AND GRUBBING SHALL BE TO THE EXTENTS OF THE EARTHWORK. THE LIMITS OF EARTHWORK ARE INDICATED ON SHEET 14.
- THE THICKNESS OF THE EXISTING ASPHALT CONCRETE VARIES FROM 4.6" TO 5.8".

024



SCALE	1" = 100'
DESIGN BY	JWC
DRAWN BY	KAMB
CHECKED BY	JWC
DATE	05/10
PROJECT NUMBER	058712110

LEE VINING AIRPORT
RUNWAY RECONSTRUCTION

REMOVAL PLAN



555 Double Eagle Court
Suite 2000
Beverly Hills, CA 90212
Tel: 310-275-8221
Fax: 310-275-8226

ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

3

SHEET 3 OF 49

ISSUED FOR CONSTRUCTION

X:\Mono County Airports\Lee Vining\Construction\Sheets\Construction Set\03-15 P&P, Striping & Drainage.dwg
May 06, 2010 - 1:37pm

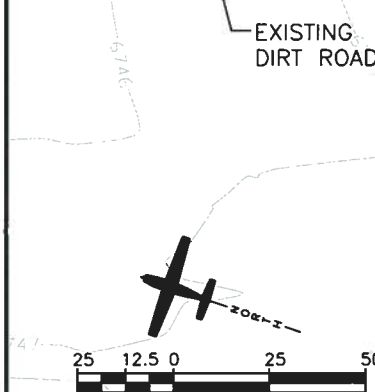
5/6/10

CALL USA

LOCATE EXISTING UTILITIES. CALL USA AT 1-800-227-2600 48 HOURS PRIOR TO CONSTRUCTION.

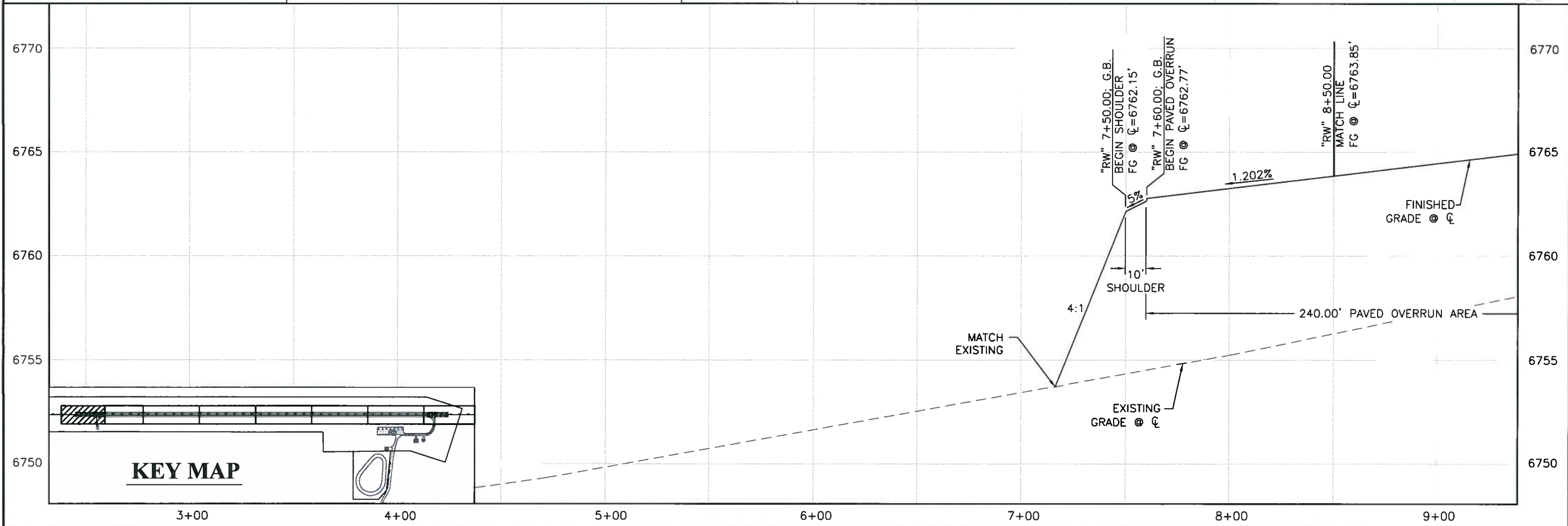
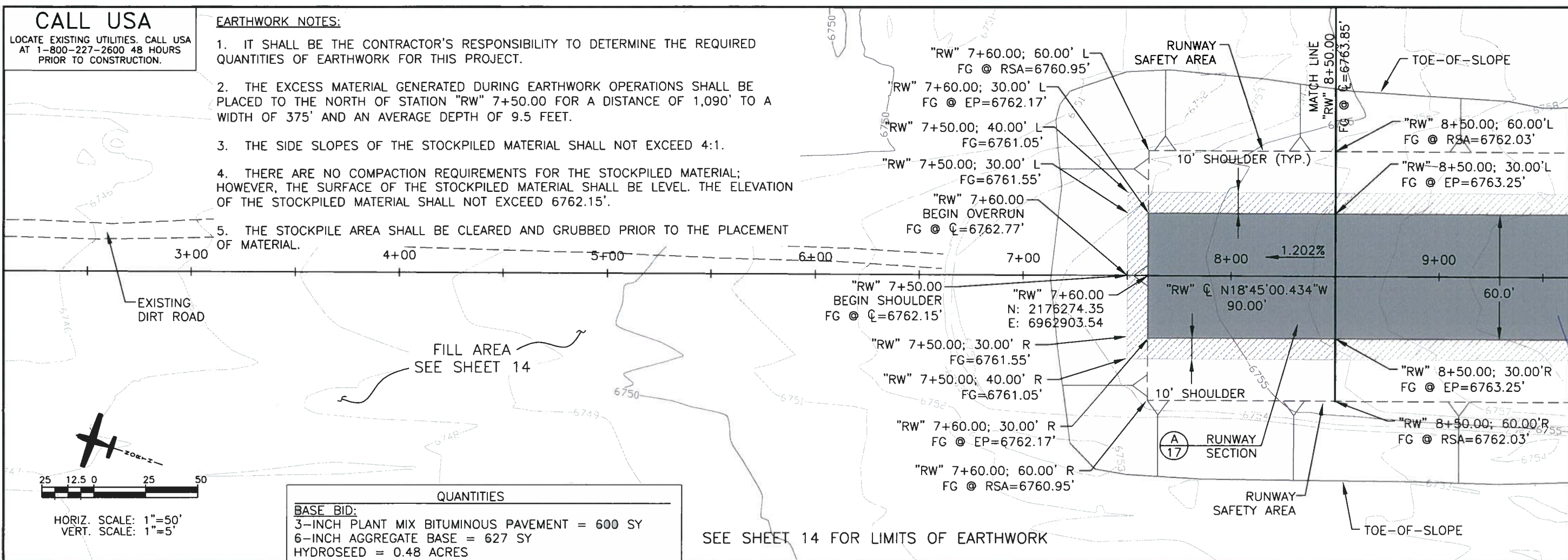
EARTHWORK NOTES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE REQUIRED QUANTITIES OF EARTHWORK FOR THIS PROJECT.
2. THE EXCESS MATERIAL GENERATED DURING EARTHWORK OPERATIONS SHALL BE PLACED TO THE NORTH OF STATION "RW" 7+50.00 FOR A DISTANCE OF 1,090' TO A WIDTH OF 375' AND AN AVERAGE DEPTH OF 9.5 FEET.
3. THE SIDE SLOPES OF THE STOCKPILED MATERIAL SHALL NOT EXCEED 4:1.
4. THERE ARE NO COMPACTION REQUIREMENTS FOR THE STOCKPILED MATERIAL; HOWEVER, THE SURFACE OF THE STOCKPILED MATERIAL SHALL BE LEVEL. THE ELEVATION OF THE STOCKPILED MATERIAL SHALL NOT EXCEED 6762.15'.
5. THE STOCKPILE AREA SHALL BE CLEARED AND GRUBBED PRIOR TO THE PLACEMENT OF MATERIAL.



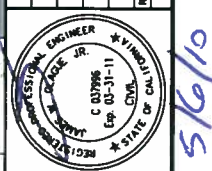
QUANTITIES	
BASE BID:	
3-INCH PLANT MIX BITUMINOUS PAVEMENT	= 600 SY
6-INCH AGGREGATE BASE	= 627 SY
HYDROSEED	= 0.48 ACRES

SEE SHEET 14 FOR LIMITS OF EARTHWORK



KEY MAP

X:\Mono County Airports\Lee Vining\Cadd\Runway Reconstruction\Sheets\Construction Set\03-15 P&P - Striping & Drainage.dwg
May 06, 2010 - 1:37pm



SCALE	AS SHOWN
DESIGN BY	JWC
DRAWN BY	KMB
CHECKED BY	JWC
DATE	05/10
PROJECT NUMBER	058712110

**LEE VINING AIRPORT
RUNWAY RECONSTRUCTION**
RUNWAY PLAN & PROFILE
STATION 3+00 TO 8+50

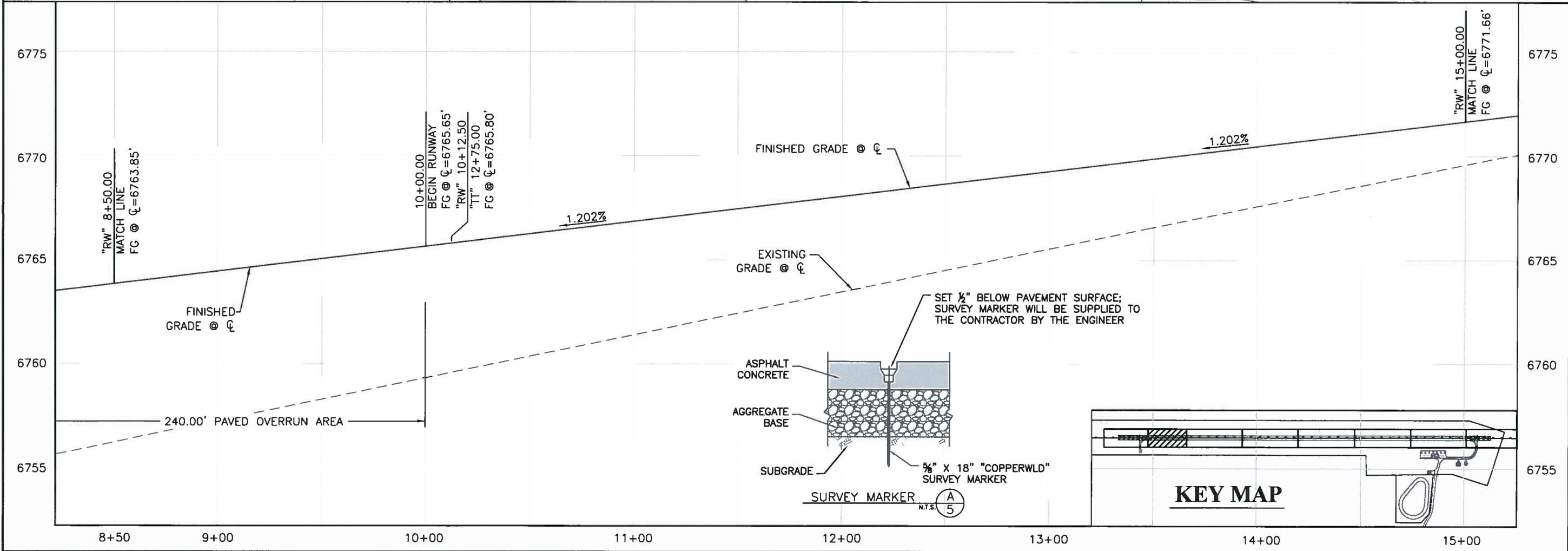
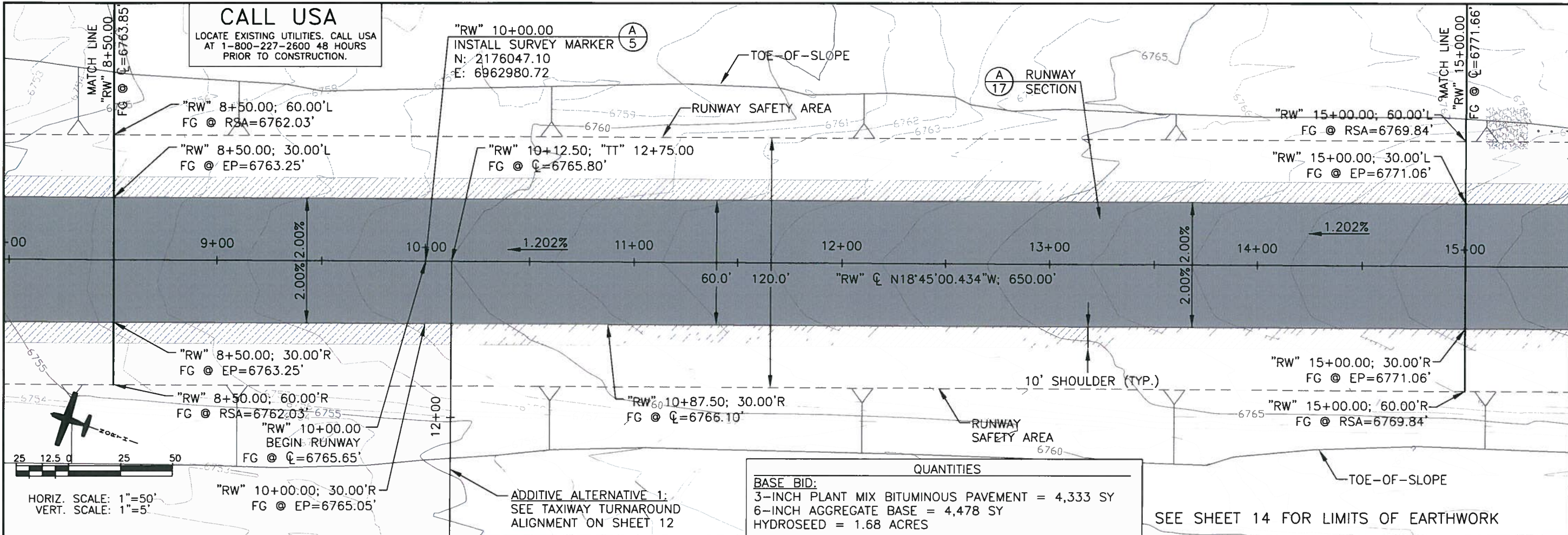
PBS&J
555 Double Eagle Court
Suite 2000
Tomball, TX 77375
Tel: 775/828-1822
Fax: 775/828-1826

ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

5/6/10

ISSUED FOR CONSTRUCTION

X:\Mono County Airports\Lee Vining\Cadd\Runway Reconstruction\Sheets\Construction Set\03-15 P&P, Striping & Drainage.dwg
May 06, 2010 - 1:38pm



REVISIONS	DESCRIPTION	DATE

PROJECT NUMBER: 05B712110

SCALE: AS SHOWN

DESIGN BY: JWC

DRAWN BY: KMB

CHECKED BY: JWC

DATE: 05/10

REGISTERED PROFESSIONAL ENGINEER
C. D. J. JR.
Exp. 03-31-11
STATE OF CALIFORNIA

LEE VINING AIRPORT
RUNWAY RECONSTRUCTION
RUNWAY PLAN & PROFILE
STATION 8+50 TO 15+00

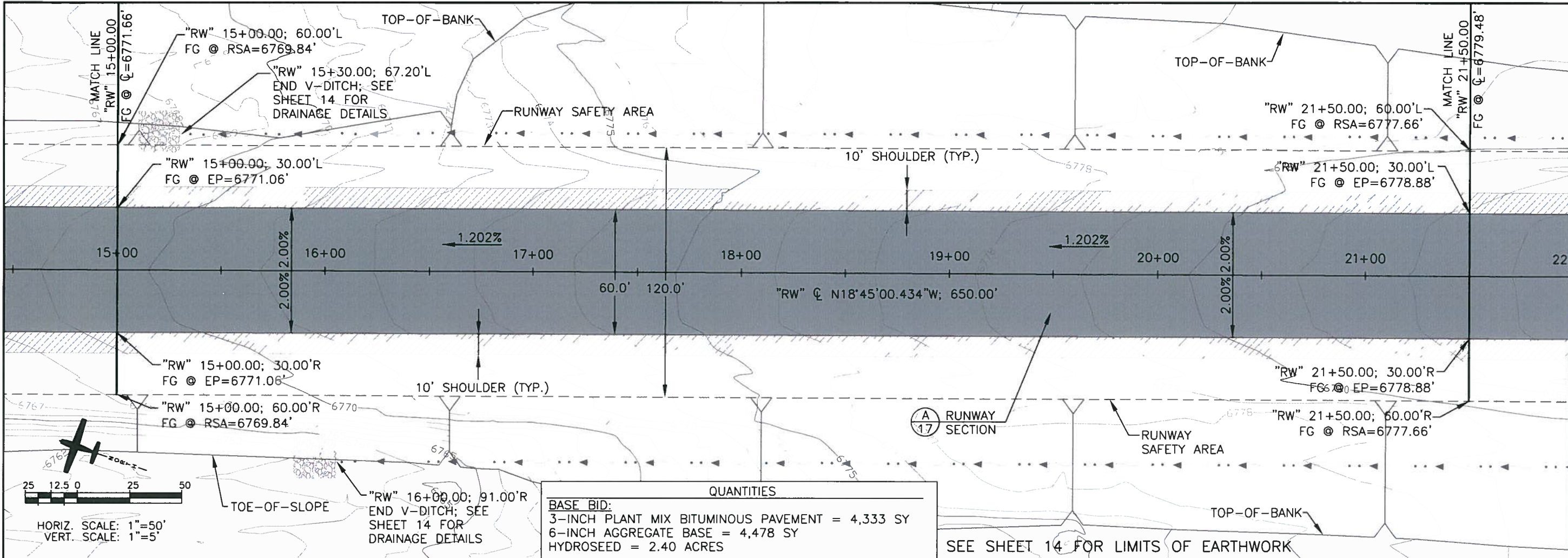
555 Double Eagle Court
Suite 2000
Truckee, CA 96161
Tel: 775/826-1822
Fax: 775/826-1826

PBS
ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

5
SHEET 5 OF 49

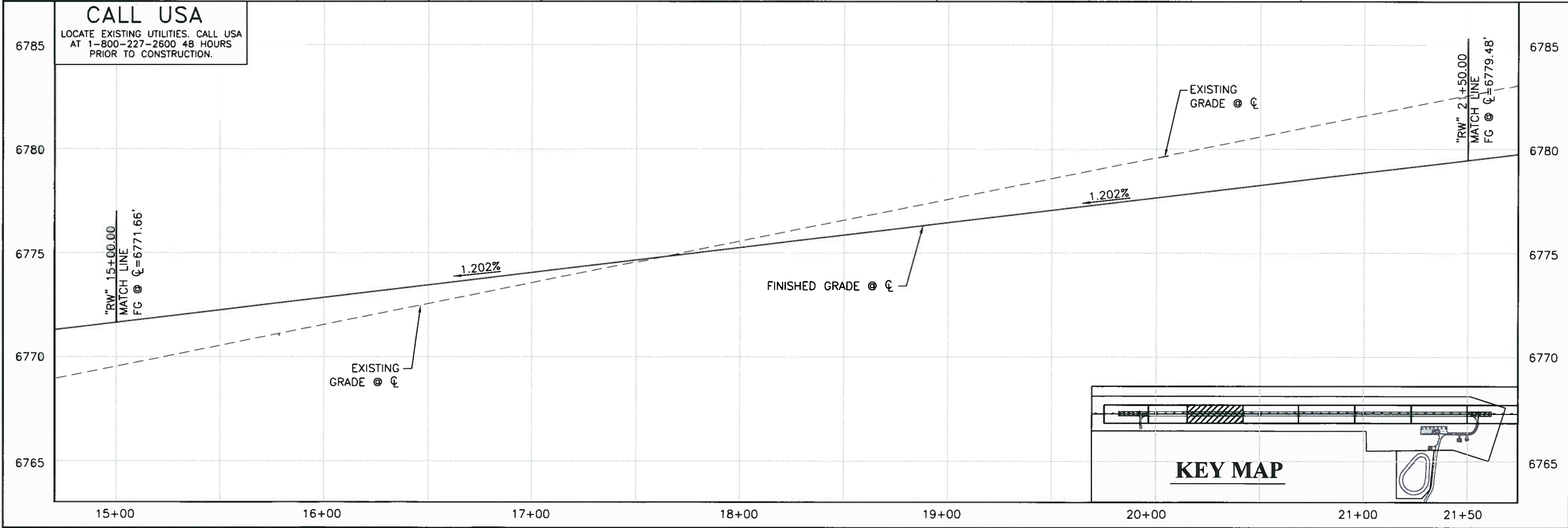
ISSUED FOR CONSTRUCTION

5/6/10



QUANTITIES	
BASE BID:	
3-INCH PLANT MIX BITUMINOUS PAVEMENT	= 4,333 SY
6-INCH AGGREGATE BASE	= 4,478 SY
HYDROSEED	= 2.40 ACRES

SEE SHEET 14 FOR LIMITS OF EARTHWORK



CALL USA
 LOCATE EXISTING UTILITIES. CALL USA
 AT 1-800-227-2600 48 HOURS
 PRIOR TO CONSTRUCTION.

SCALE	AS SHOWN
DESIGN BY	JWC
DRAWN BY	KMB
CHECKED BY	JWC
DATE	05/10
PROJECT NUMBER	058712110
REVISIONS	
DESCRIPTION	
CHECKED APPD	

LEE VINING AIRPORT
 RUNWAY RECONSTRUCTION
 RUNWAY PLAN & PROFILE
 STATION 15+00 TO 21+50

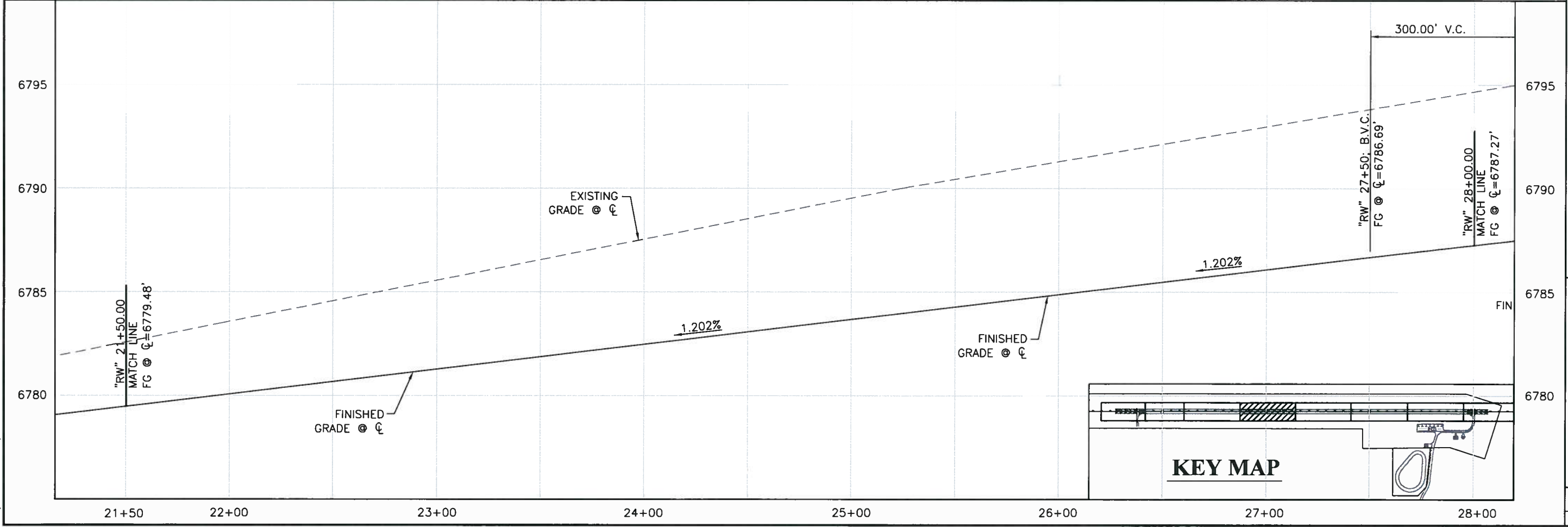
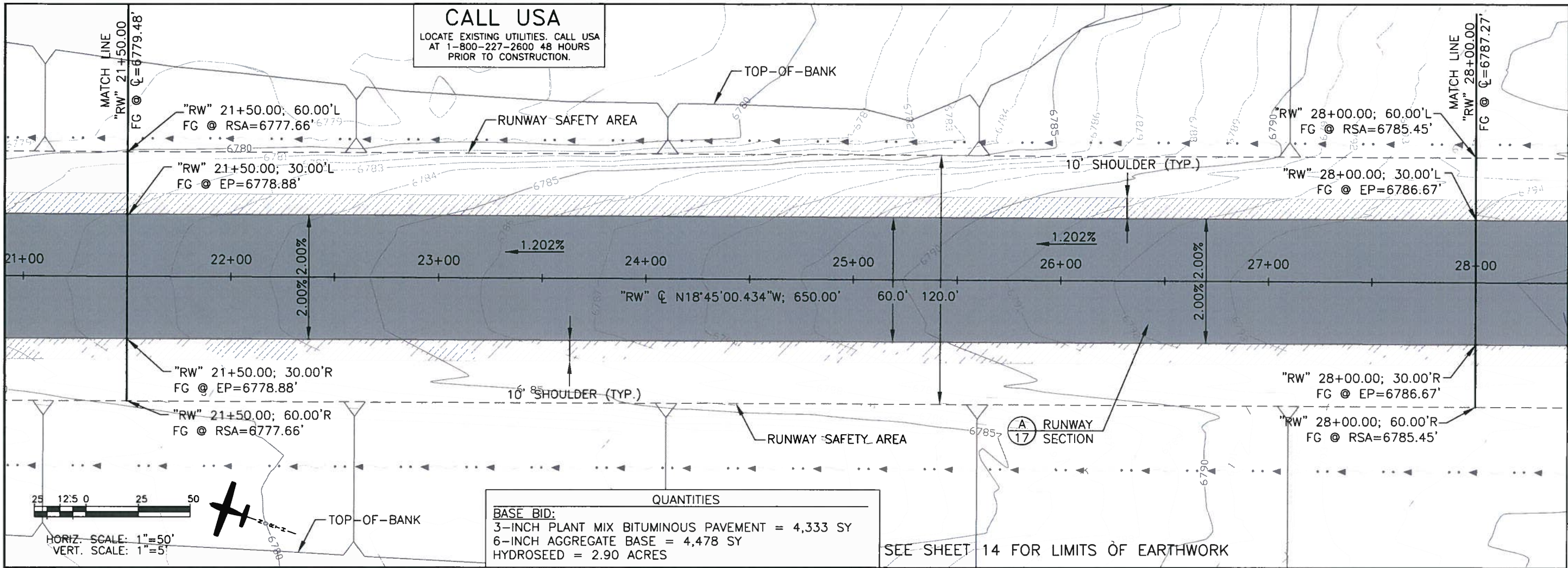
505 Double Eagle Court
 Suite 2000
 Tehama County, CA 96221-1822
 Telephone: 707/722-1822
 Fax: 707/828-1826

PBS&J
 ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

6
 SHEET 6 OF 49

ISSUED FOR CONSTRUCTION

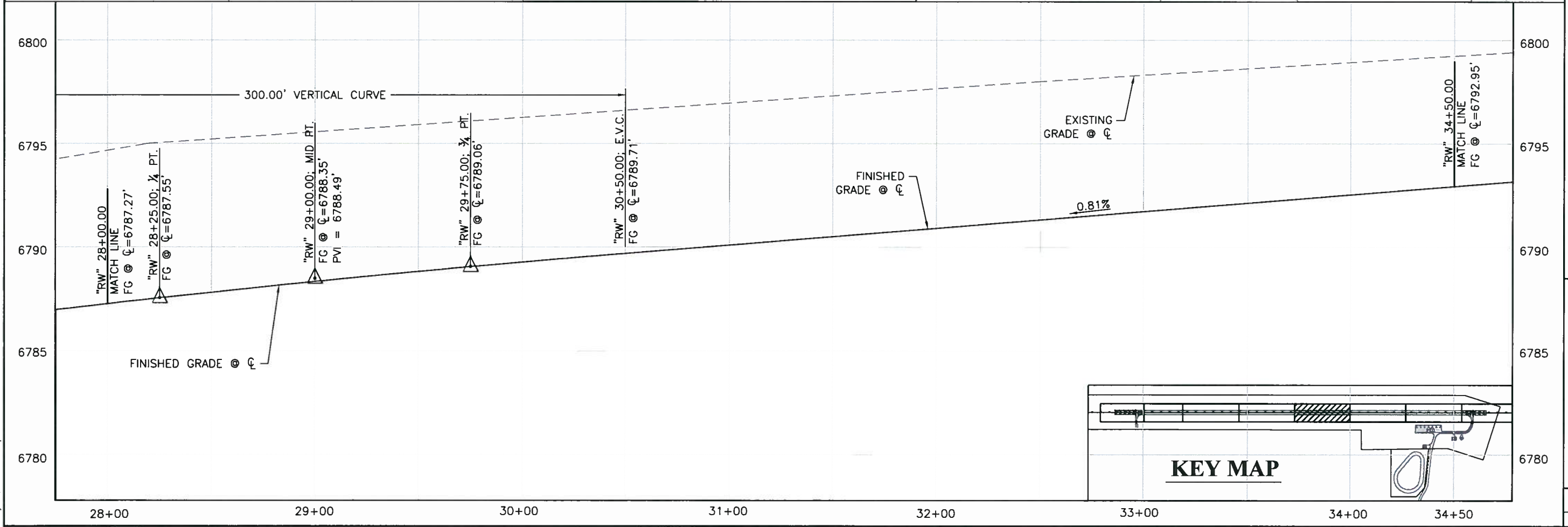
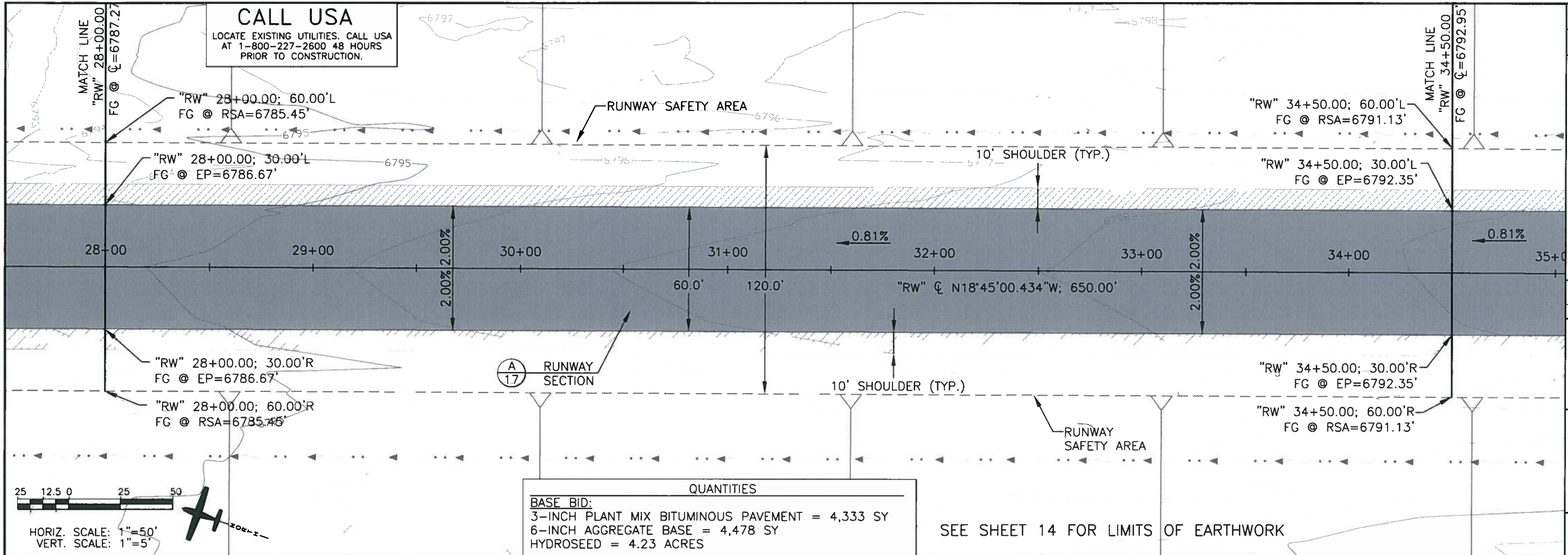
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 May 06, 2010 - 1:57pm



DESIGNED BY JWC	DRAWN BY KMB	CHECKED BY JWC	DATE 05/10	PROJECT NUMBER 05571210									
<p>SCALE AS SHOWN</p> <p>DESIGNER'S SEAL: JWC, CIVIL ENGINEER, STATE OF CALIFORNIA, LICENSE NO. C 03796, Exp. 03-31-11</p> <p>PROJECT NAME: LEE VINING AIRPORT RUNWAY RECONSTRUCTION</p> <p>PROJECT LOCATION: STATION 21+50 TO 28+00</p>													
<p>REVISIONS</p> <table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>					REV	DATE	DESCRIPTION						
REV	DATE	DESCRIPTION											
<p>ISSUED FOR CONSTRUCTION</p> <p>SHEET 7 OF 49</p>													

5/6/10

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 May 06, 2010 - 1:40pm



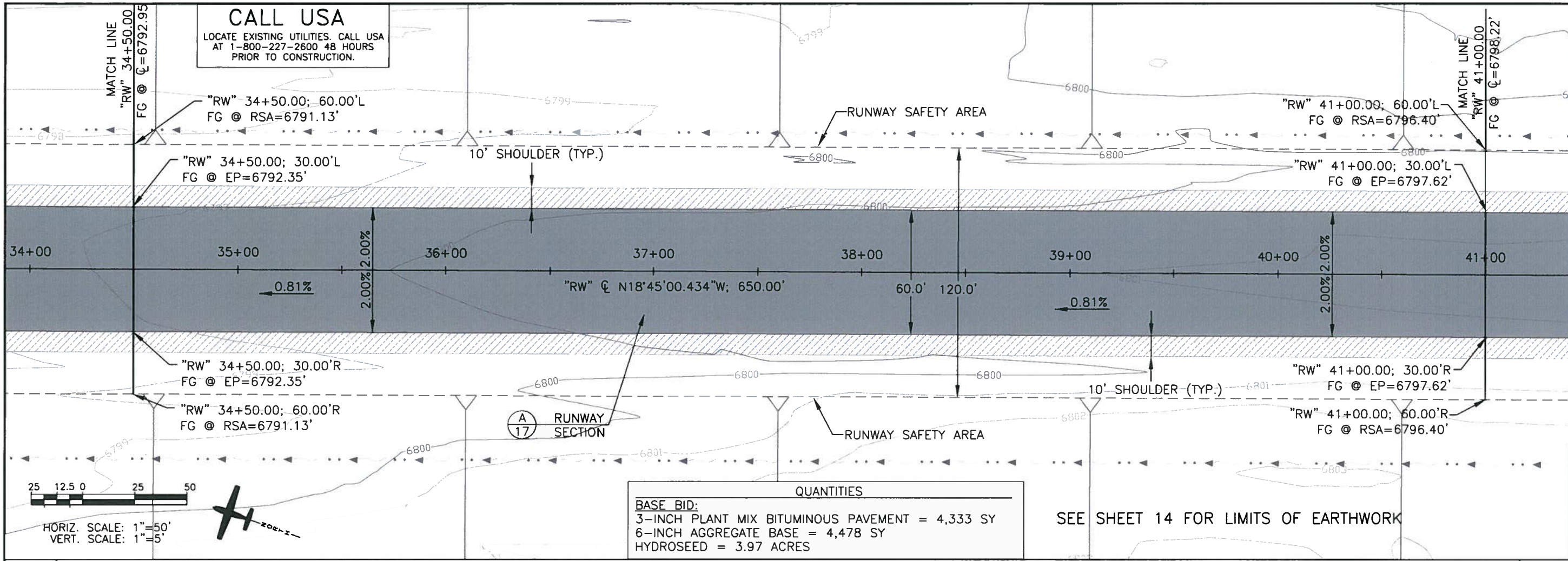
SCALE	AS SHOWN
DESIGN BY	JWC
DATE	05/10
CHECKED BY	JWC
PROJECT NUMBER	058712110

REGISTERED PROFESSIONAL ENGINEER	STATE OF CALIFORNIA
LEE VINING JR.	C 03796
Exp. 01-31-11	

LEE VINING AIRPORT
 RUNWAY RECONSTRUCTION
 RUNWAY PLAN & PROFILE
 STATION 28+00 TO 34+50

56/10

ISSUED FOR CONSTRUCTION

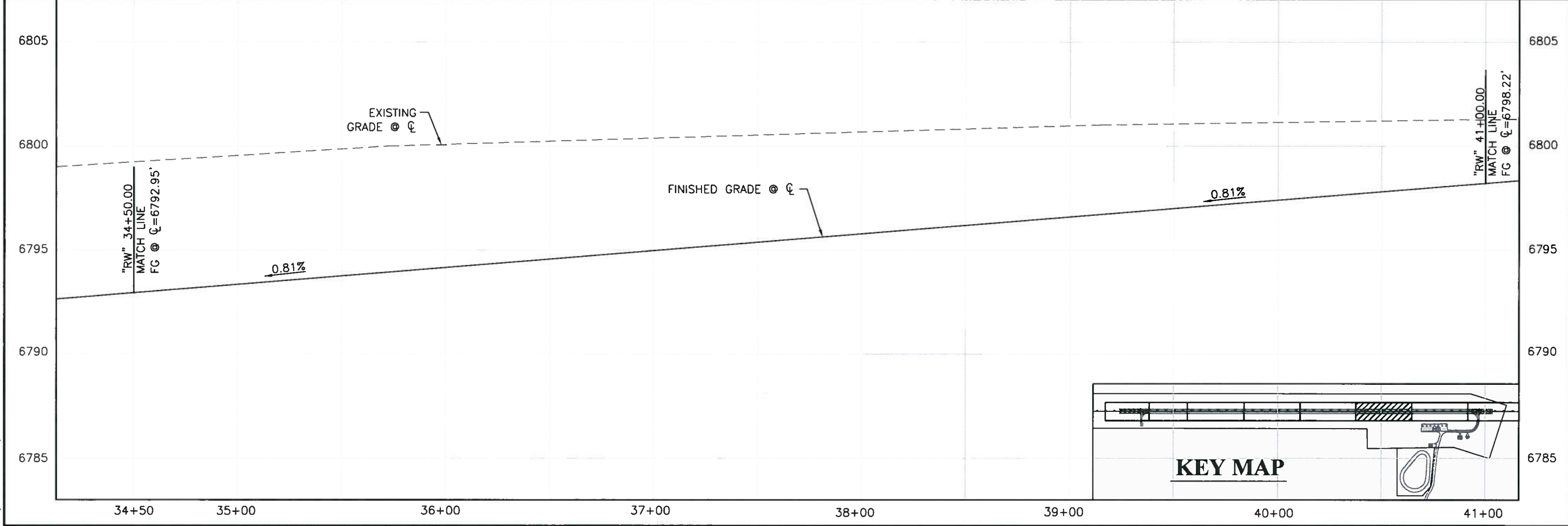
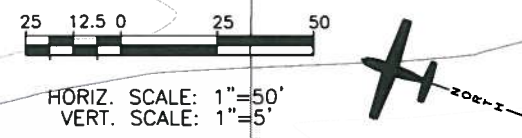


CALL USA
 LOCATE EXISTING UTILITIES. CALL USA
 AT 1-800-227-2600 48 HOURS
 PRIOR TO CONSTRUCTION.

A
17
 RUNWAY
 SECTION

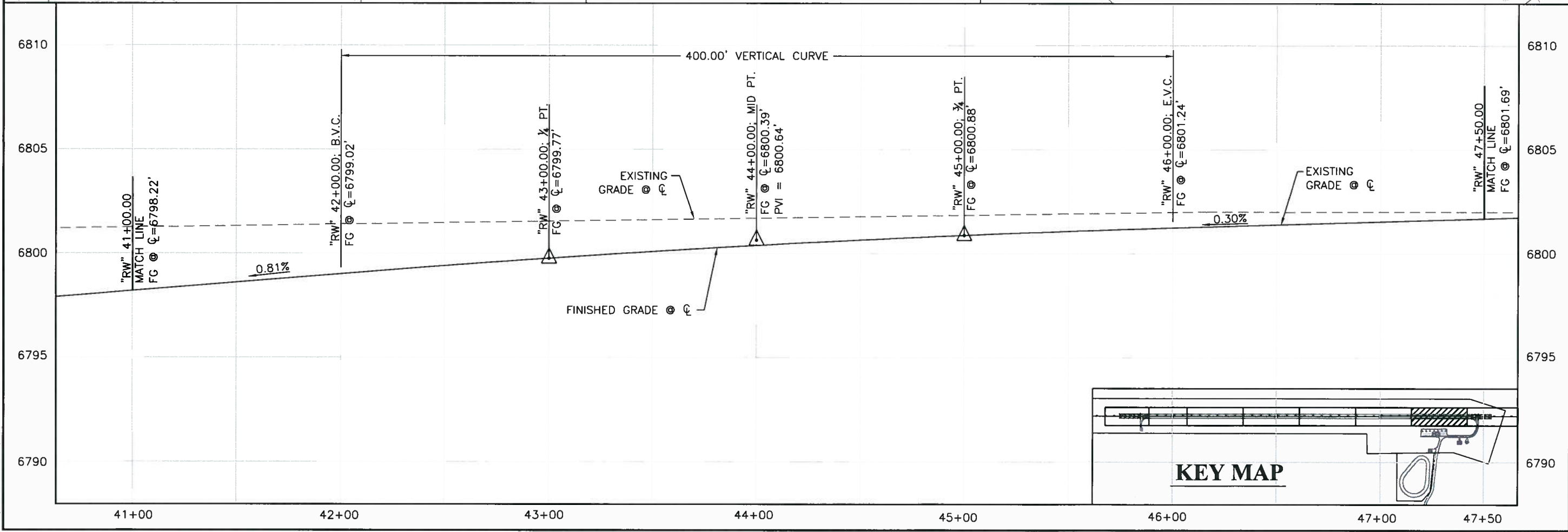
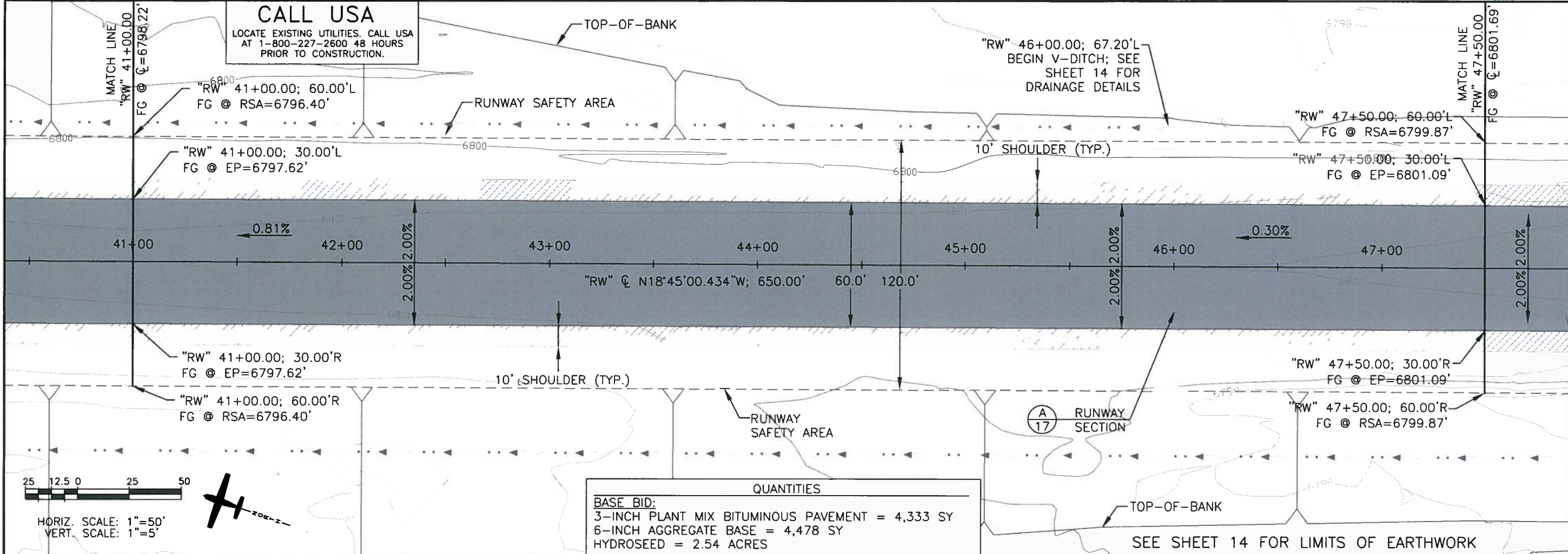
QUANTITIES
 BASE BID:
 3-INCH PLANT MIX BITUMINOUS PAVEMENT = 4,333 SY
 6-INCH AGGREGATE BASE = 4,478 SY
 HYDROSEED = 3.97 ACRES

SEE SHEET 14 FOR LIMITS OF EARTHWORK



	REVISIONS DESCRIPTION DATE CHECKED AMP
AS SHOWN DESIGNED BY: KMB CHECKED BY: JWC DATE: 05/10 PROJECT NUMBER: 058712110	LEE VINING AIRPORT RUNWAY RECONSTRUCTION RUNWAY PLAN & PROFILE STATION 34+50 TO 41+00
855 Double Eagle Court Suite 2000 Reno, Nevada, 89521-1822 Fax: 775/858-1828	ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES
	ISSUED FOR CONSTRUCTION
SHEET 9 OF 49	5/6/10

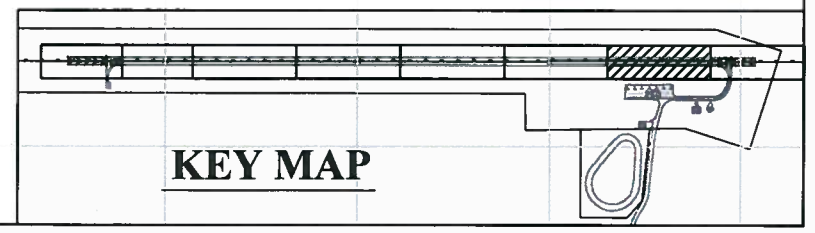
X:\Mono County Airports\Lee Vining\Cadet\Runway Reconstruction\Set03-15 P&P - Striping & Drainage.dwg
 May 06, 2010 - 1:41pm



CALL USA
 LOCATE EXISTING UTILITIES. CALL USA
 AT 1-800-227-2600 48 HOURS
 PRIOR TO CONSTRUCTION.

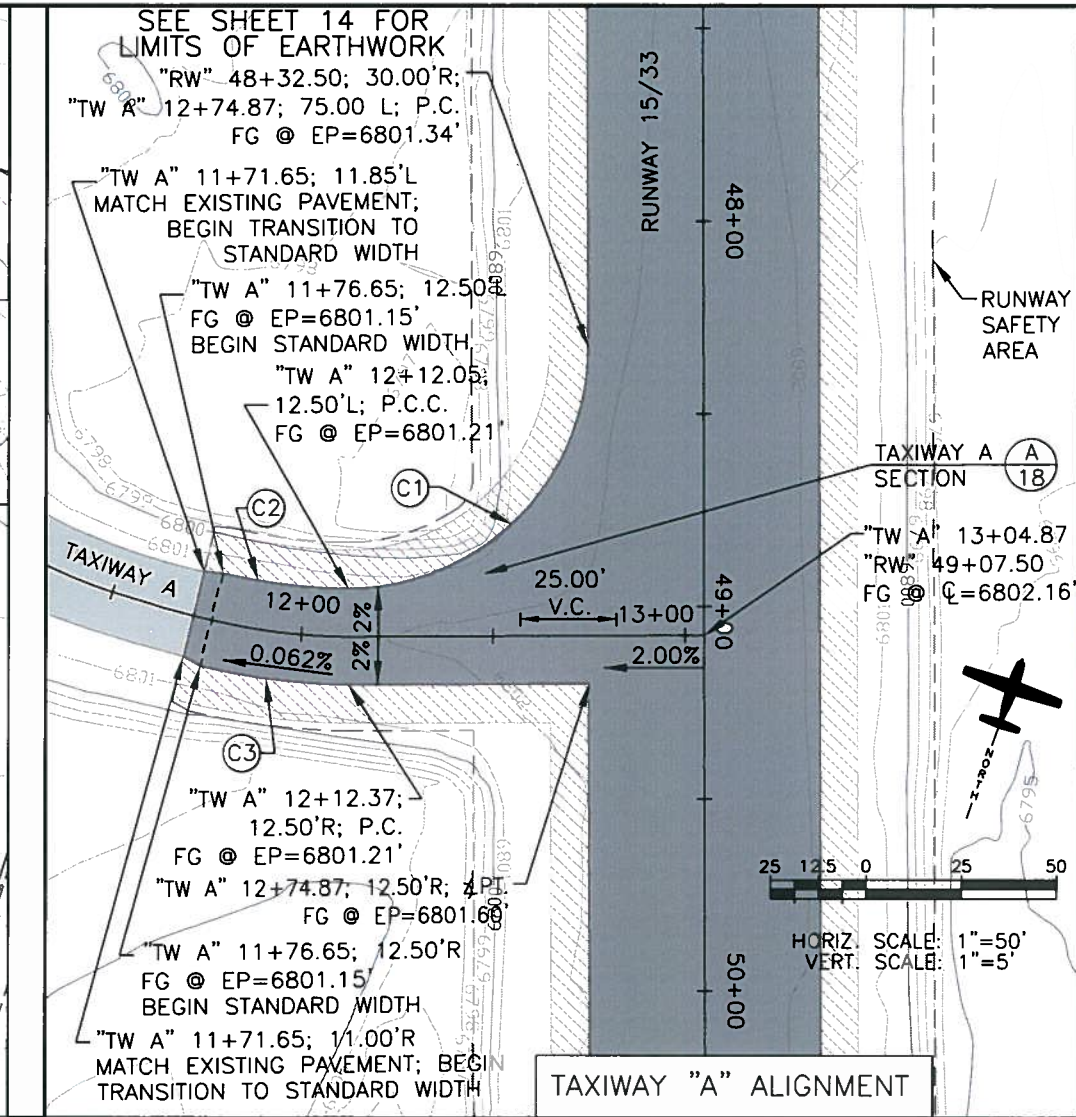
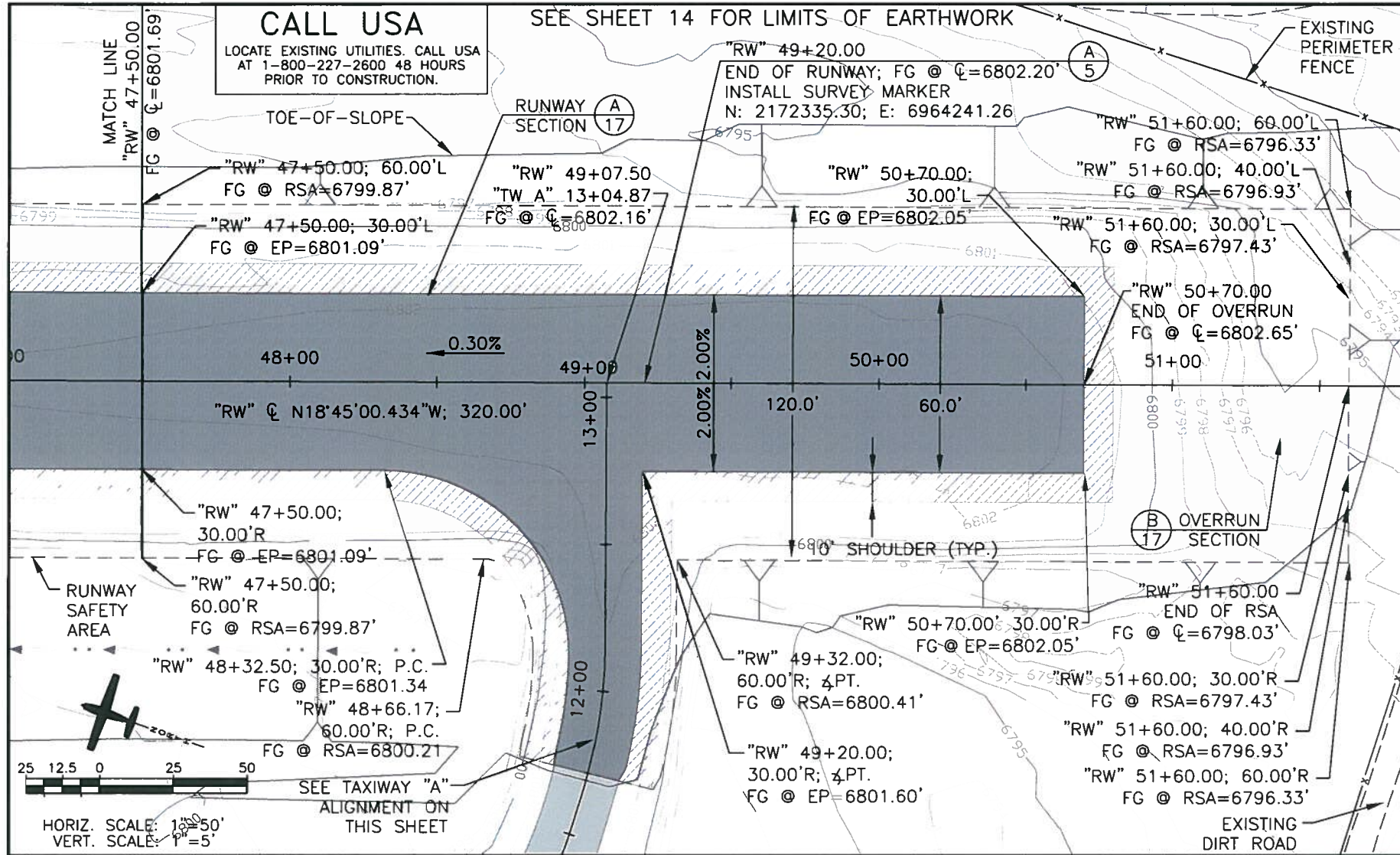
QUANTITIES
 BASE BID:
 3-INCH PLANT MIX BITUMINOUS PAVEMENT = 4,333 SY
 6-INCH AGGREGATE BASE = 4,478 SY
 HYDROSEED = 2.54 ACRES

SEE SHEET 14 FOR LIMITS OF EARTHWORK



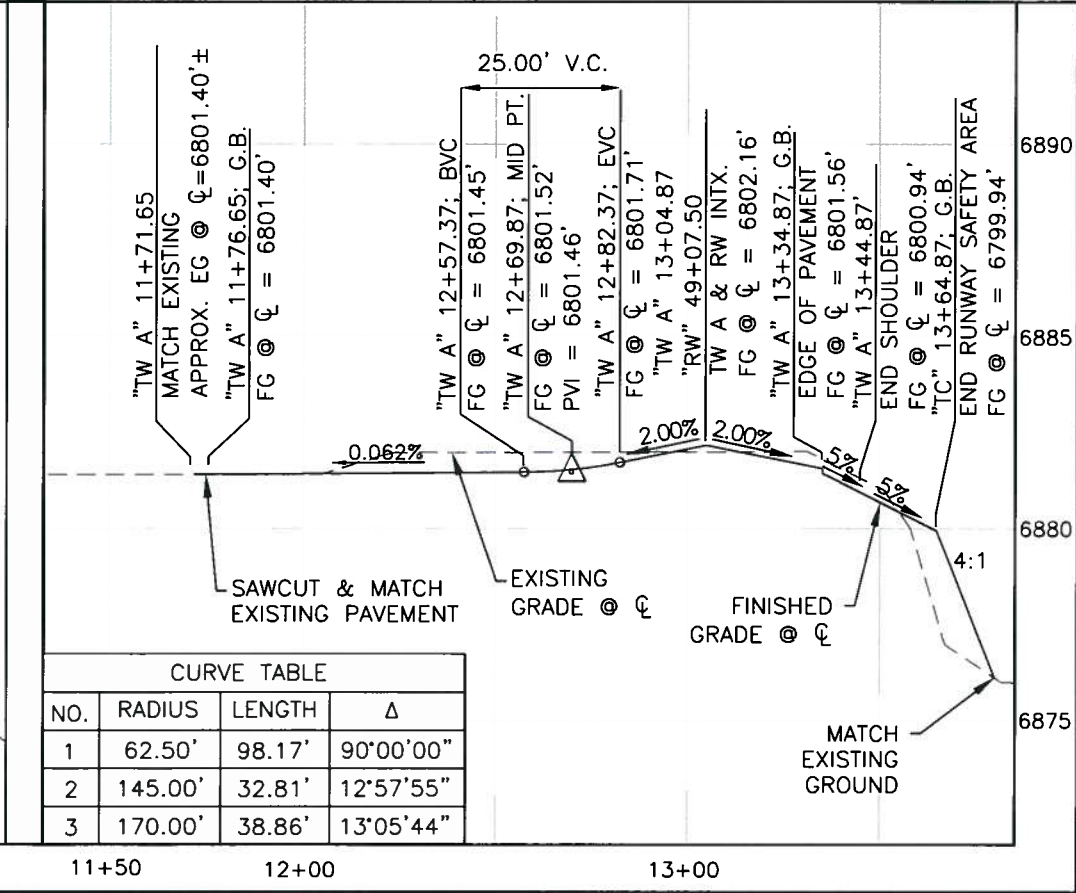
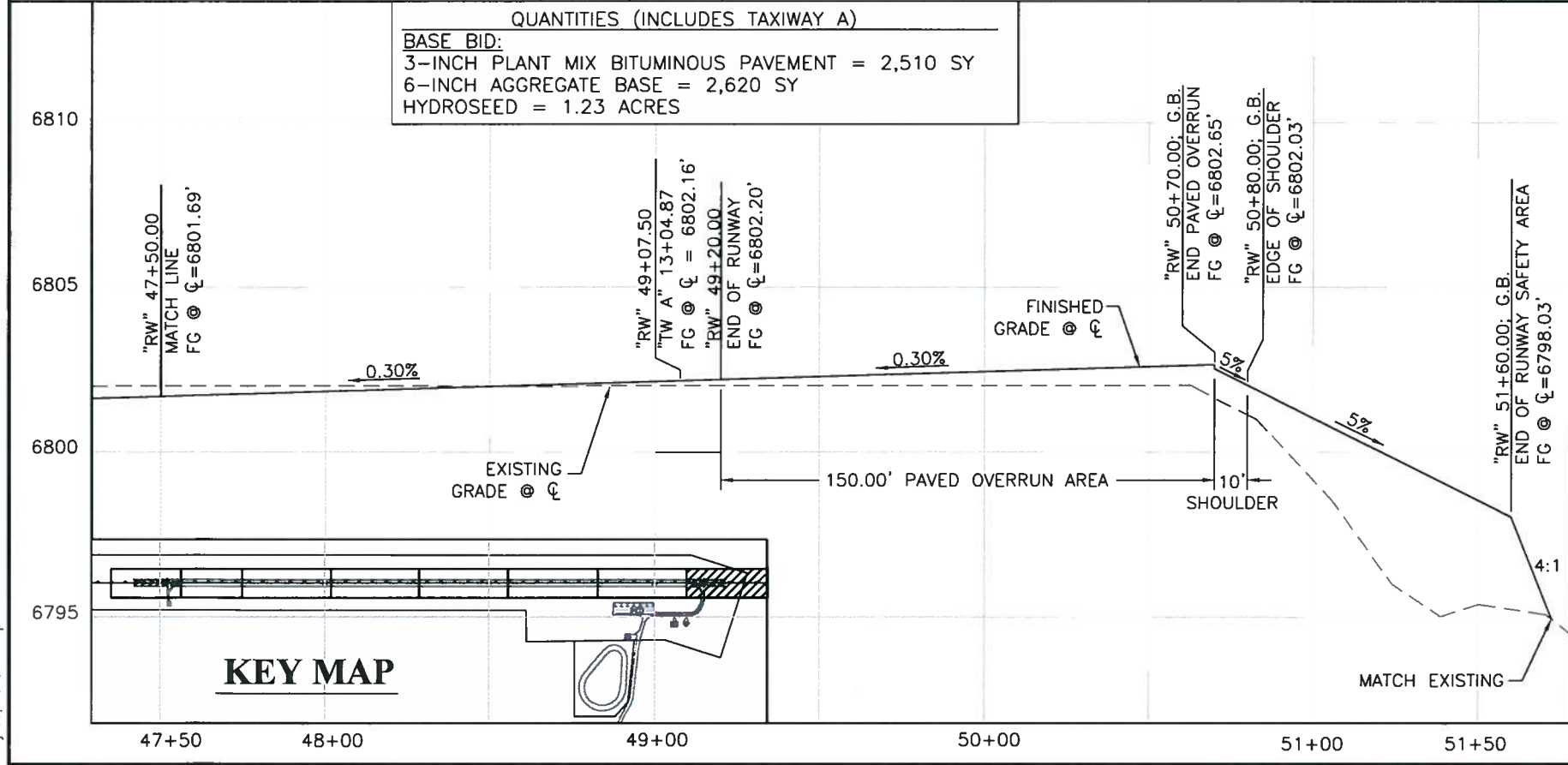
	AS SHOWN DESIGN BY JWC DATE 05/10 PROJECT NUMBER 058712110	DRAWN BY KMB CHECKED BY JWC	REVISIONS DESCRIPTION DATE
LEE VINING AIRPORT RUNWAY RECONSTRUCTION		RUNWAY PLAN & PROFILE STATION 41+00 TO 47+50	
		555 Double Eagle Court Suite 2000 Reno, Nevada 79402-1822 Tel: 775/785-1822 Fax: 775/828-1828	
ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES		ISSUED FOR CONSTRUCTION	
SHEET 10 OF 49		10	

X:\Mono County Airports\Lee Vining\Cadd\Runway Reconstruction\Sheets\Construction Set\03-15 P&P, Striping & Drainage.dwg
 May 06, 2010 - 1:42pm



QUANTITIES (INCLUDES TAXIWAY A)

BASE BID:
 3-INCH PLANT MIX BITUMINOUS PAVEMENT = 2,510 SY
 6-INCH AGGREGATE BASE = 2,620 SY
 HYDROSEED = 1.23 ACRES



CURVE TABLE

NO.	RADIUS	LENGTH	Δ
1	62.50'	98.17'	90°00'00"
2	145.00'	32.81'	12°57'55"
3	170.00'	38.86'	13°05'44"

**LEE VINING AIRPORT
 RUNWAY RECONSTRUCTION
 RUNWAY PLAN & PROFILE
 STATION 47+50 TO 51+50 & TAXIWAY A**

5/6/10

AS SHOWN
 DRAWN BY: KMB
 CHECKED BY: JWC
 DATE: 05/10
 PROJECT NUMBER: 05B712110

REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 C 05196
 Exp. 03-31-11

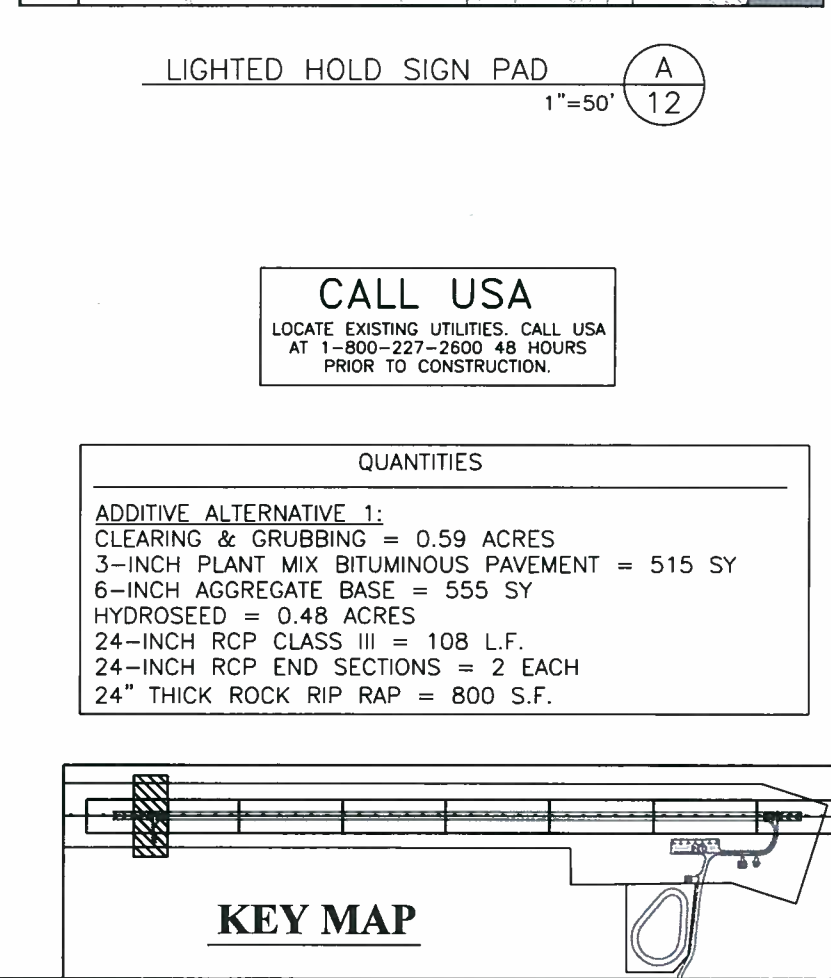
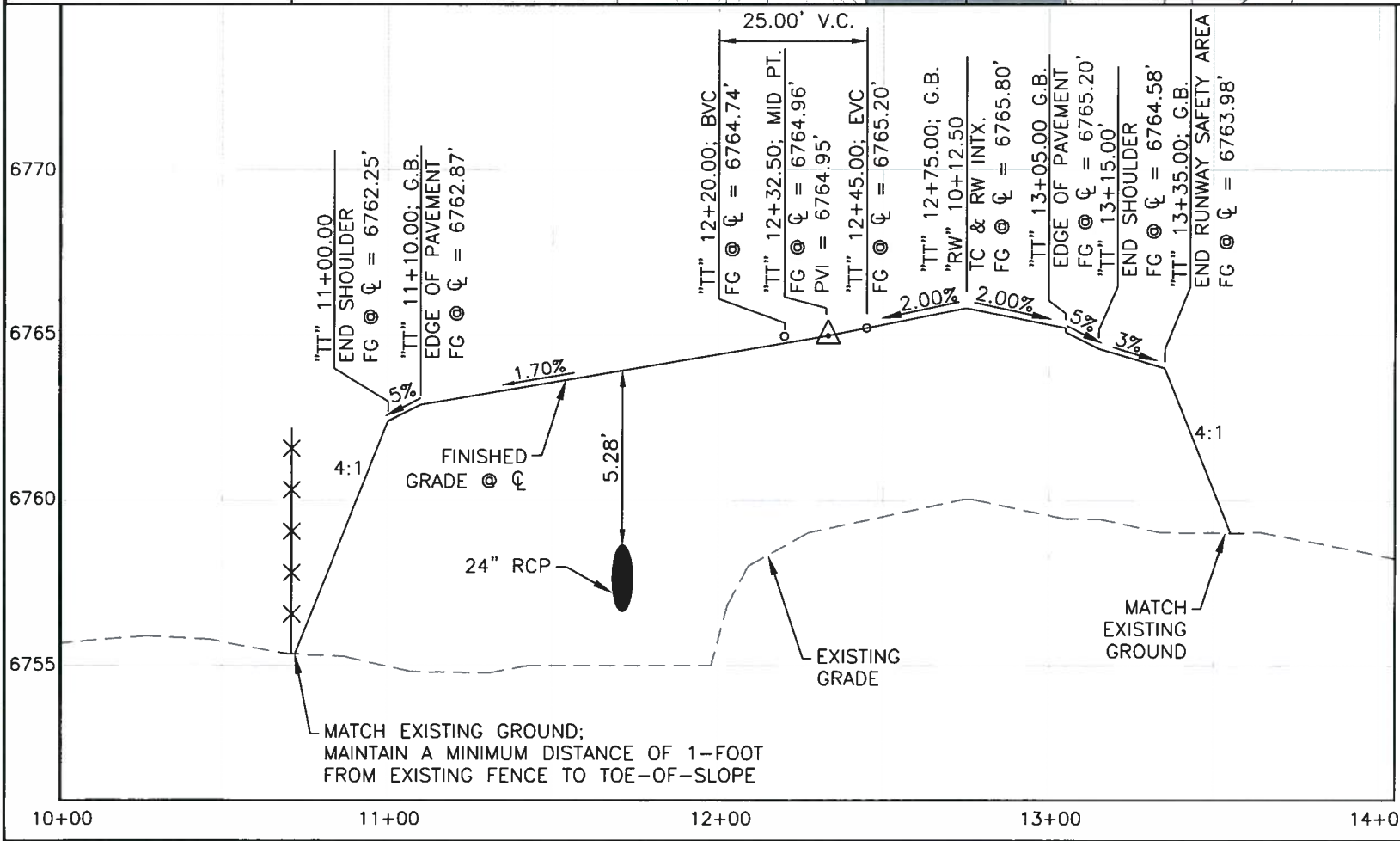
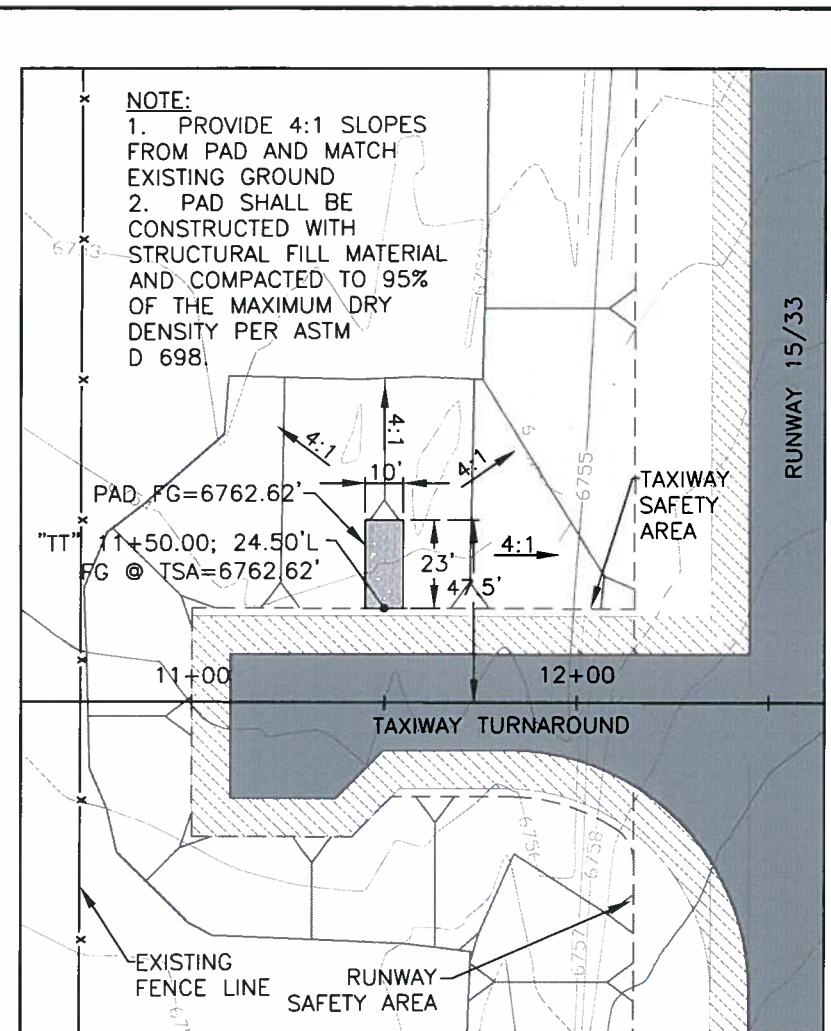
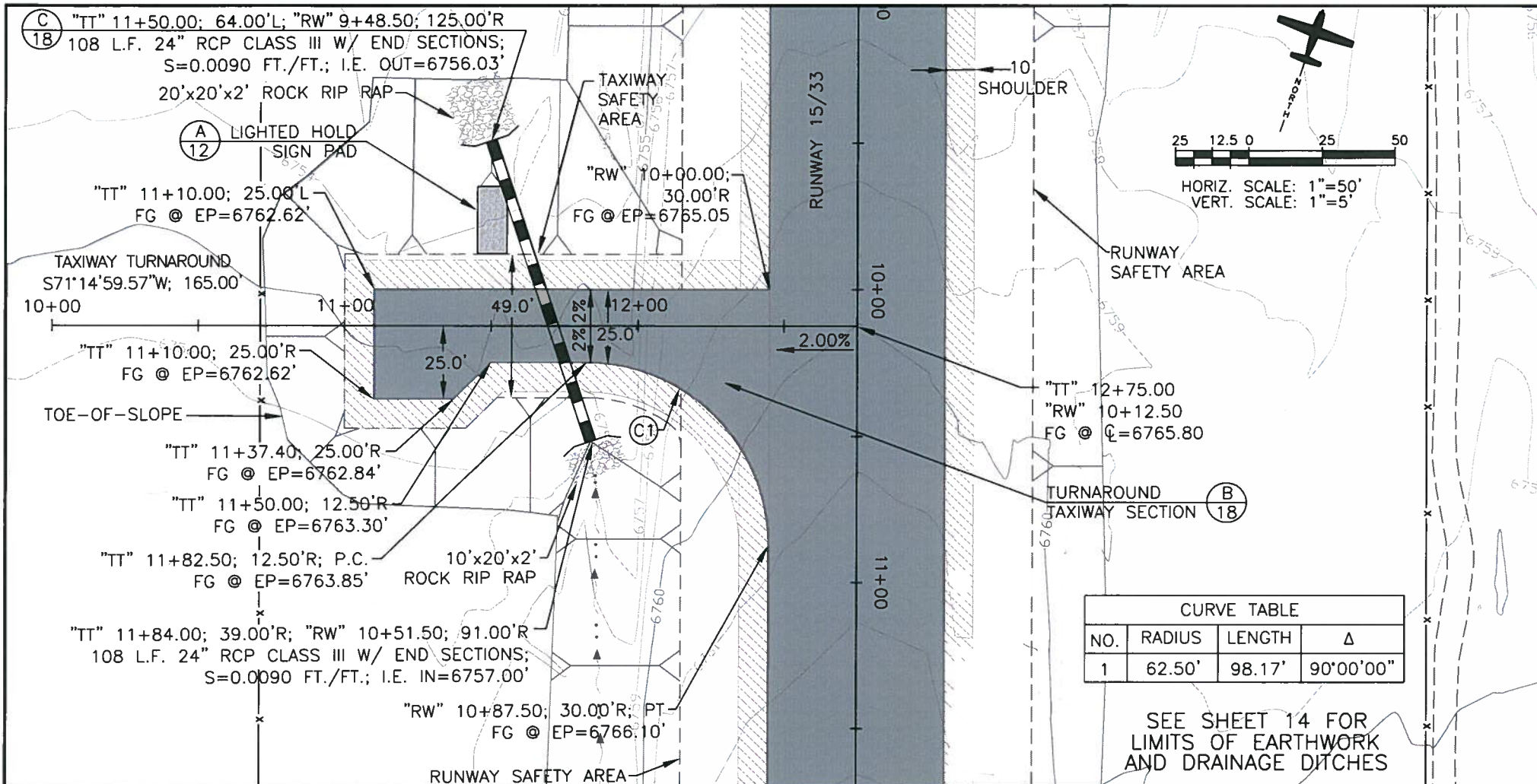
555 Double Eagle Court
 Suite 2000
 San Francisco, CA 94133
 Telephone: 775/625-1622
 Fax: 775/625-1626

PBS
 ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

ISSUED FOR CONSTRUCTION

11
 SHEET 11 OF 49

X:\Mono County Airports\Lee Vining\Reconstruction\Sheets\Construction Set\03-15 P&P, Striping & Drainage.dwg
 May 06, 2010 - 1:43pm



LEE VINING AIRPORT
 RUNWAY RECONSTRUCTION
 ADDITIVE ALTERNATIVE 1:
 TAXIWAY TURNAROUND PLAN & PROFILE

SCALE AS SHOWN
 DESIGNED BY JWC
 DRAWN BY KMB
 CHECKED BY JWC
 DATE 05/10

PROJECT NUMBER 058712110

REGISTERED PROFESSIONAL ENGINEER
 JAMES M. COOPER, JR.
 No. 00394
 Exp. 03-31-11
 STATE OF CALIFORNIA

5/6/10

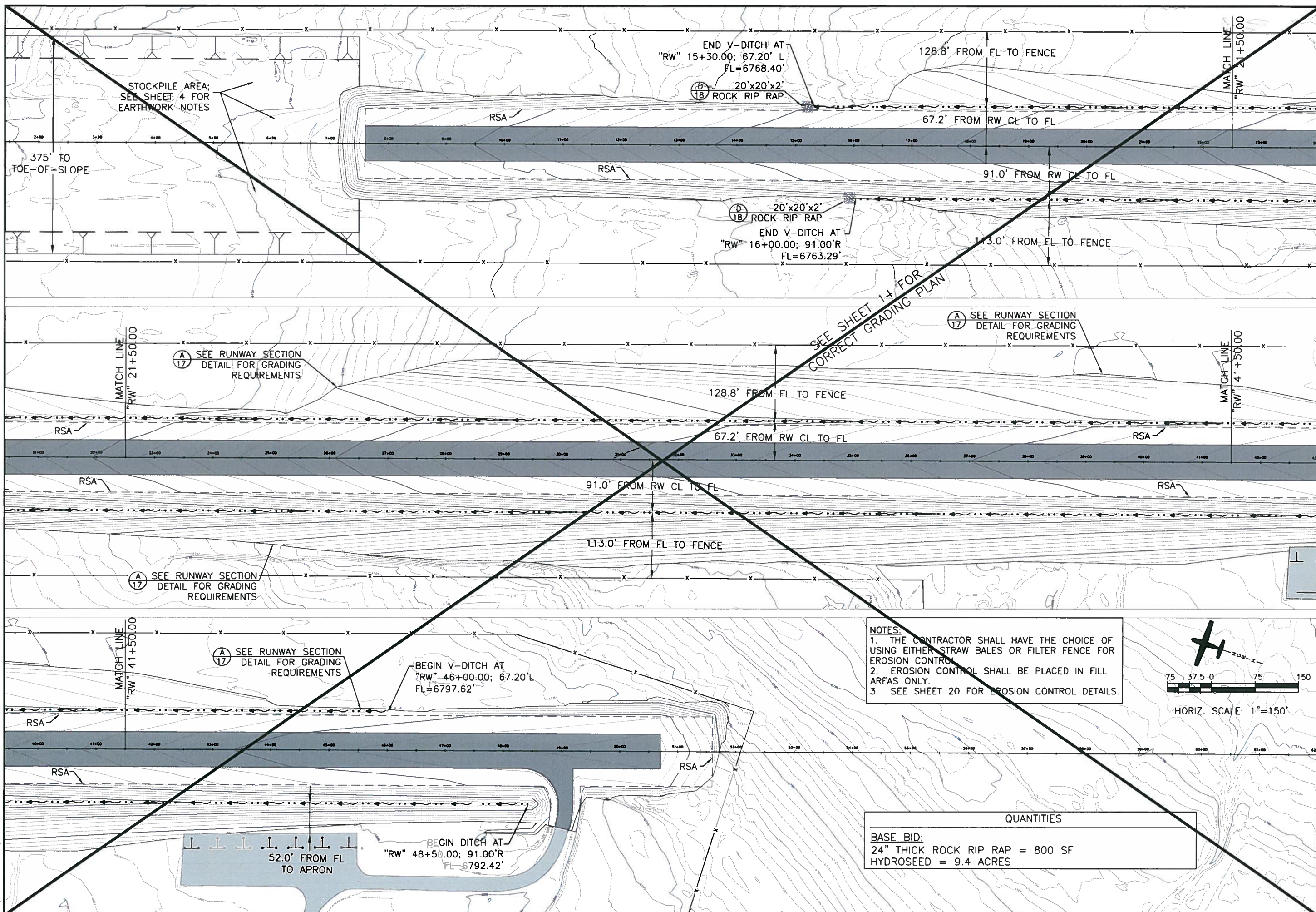
555 Double Eagle Court
 Suite 2000
 Colton, CA 95310
 Telephone: 775/828-1822
 Fax: 775/828-1826

PBS
 ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

ISSUED FOR CONSTRUCTION

12
 SHEET 12 OF 49

X:\Mono County Airports\Lee Vining\Runway Reconstruction\Sheets\Construction Set\03-15 P&P, Striping & Drainage.dwg
May 06, 2010 - 1:44pm



STOCKPILE AREA;
SEE SHEET 4 FOR
EARTHWORK NOTES

375' TO
TOE-OF-SLOPE

END V-DITCH AT
"RW" 15+30.00; 67.20' L
FL=6768.40'

20'x20'x2'
ROCK RIP RAP

128.8' FROM FL TO FENCE

67.2' FROM RW CL TO FL

MATCH LINE
"RW" 21+50.00

20'x20'x2'
ROCK RIP RAP

END V-DITCH AT
"RW" 16+00.00; 91.00'R
FL=6763.29'

91.0' FROM RW CL TO FL

113.0' FROM FL TO FENCE

SEE SHEET 14 FOR
CORRECT GRADING PLAN

SEE RUNWAY SECTION
DETAIL FOR GRADING
REQUIREMENTS

SEE RUNWAY SECTION
DETAIL FOR GRADING
REQUIREMENTS

MATCH LINE
"RW" 21+50.00

128.8' FROM FL TO FENCE

67.2' FROM RW CL TO FL

MATCH LINE
"RW" 41+50.00

SEE RUNWAY SECTION
DETAIL FOR GRADING
REQUIREMENTS

91.0' FROM RW CL TO FL

113.0' FROM FL TO FENCE

SEE RUNWAY SECTION
DETAIL FOR GRADING
REQUIREMENTS

MATCH LINE
"RW" 41+50.00

BEGIN V-DITCH AT
"RW" 46+00.00; 67.20'L
FL=6797.62'

NOTES:
1. THE CONTRACTOR SHALL HAVE THE CHOICE OF
USING EITHER STRAW BALES OR FILTER FENCE FOR
EROSION CONTROL.
2. EROSION CONTROL SHALL BE PLACED IN FILL
AREAS ONLY.
3. SEE SHEET 20 FOR EROSION CONTROL DETAILS.



HORIZ. SCALE: 1"=150'

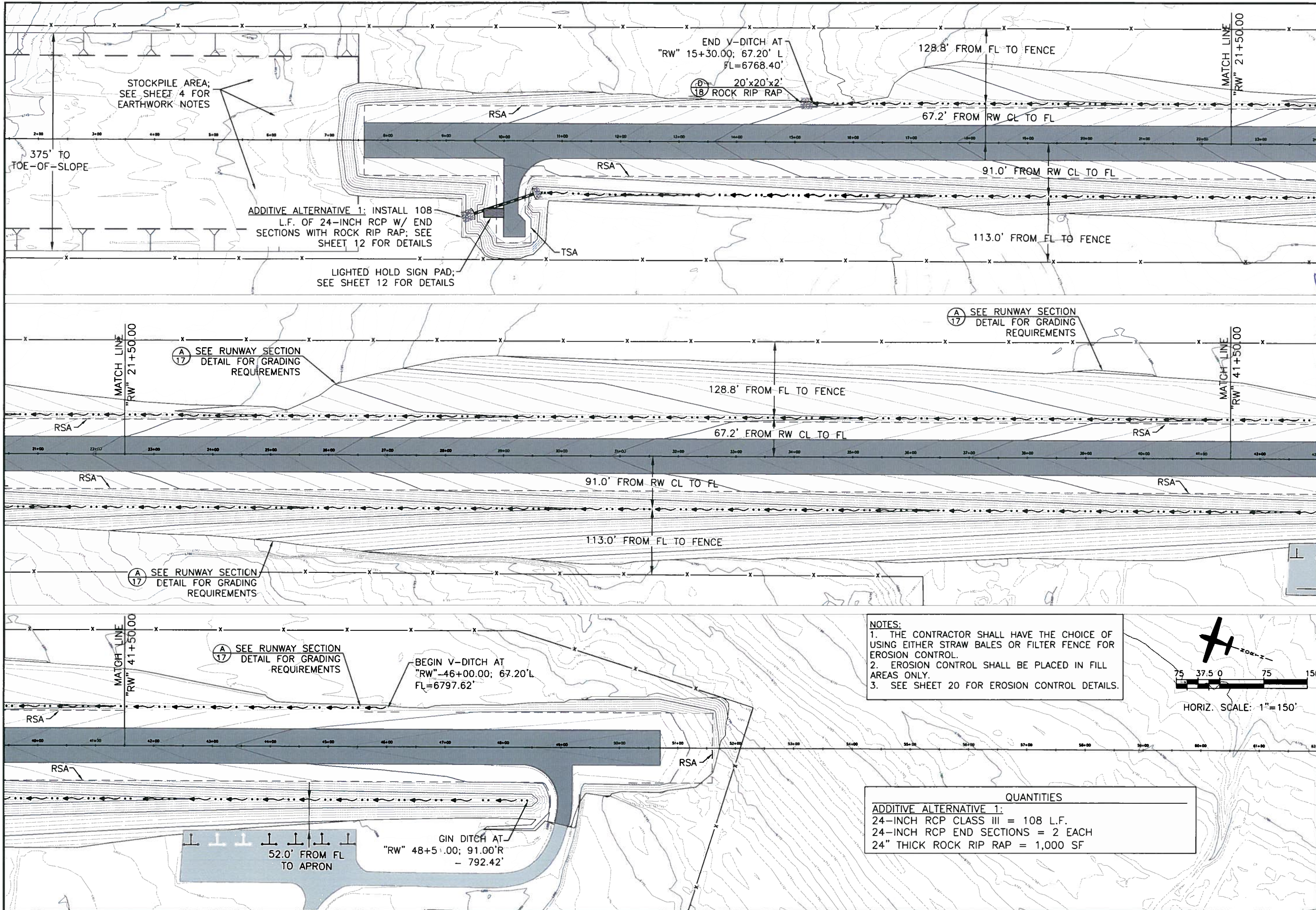
52.0' FROM FL
TO APRON

BEGIN DITCH AT
"RW" 48+50.00; 91.00'R
FL=6792.42'

QUANTITIES
BASE BID:
24" THICK ROCK RIP RAP = 800 SF
HYDROSEED = 9.4 ACRES

DESIGNED BY JWC	CHECKED BY JWC	DATE 05/10	PROJECT NUMBER 058712110
<p>LEE VINING AIRPORT RUNWAY RECONSTRUCTION BASE BID GRADING AND DRAINAGE SITE PLAN</p>			
<p>5/6/10</p>			
<p>5/5 Public Eagle Court Suite 2000 Reno, Nevada, 89521-6822 Phone: 775/828-1828 Fax: 775/828-1828</p>			
<p>ISSUED FOR CONSTRUCTION</p>			

struction\Sheets\Construction Set\03-15 P&P, Striping & Drainage.dwg



DESIGNER	DATE	PROJECT NUMBER
DRYAN BY KMB	05/10	050712110
CHECKED BY JWC		

SCALE 1"=150'

LEE VINING AIRPORT
 RUNWAY RECONSTRUCTION
 ADDITIVE ALTERNATIVE 1
 GRADING AND DRAINAGE SITE PLAN

555 Double Eagle Court
 Reno, Nevada 89521
 Phone: 775/785-1822
 Fax: 775/785-1828

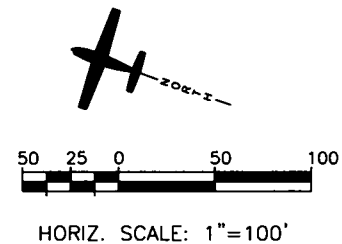
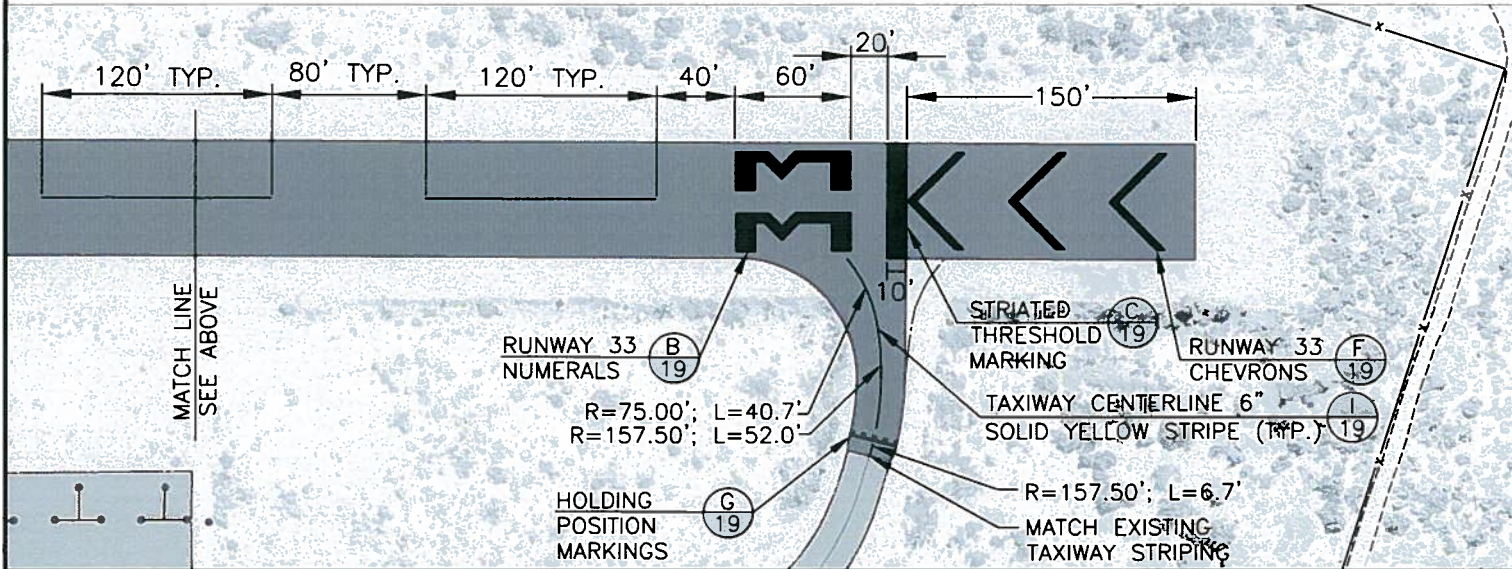
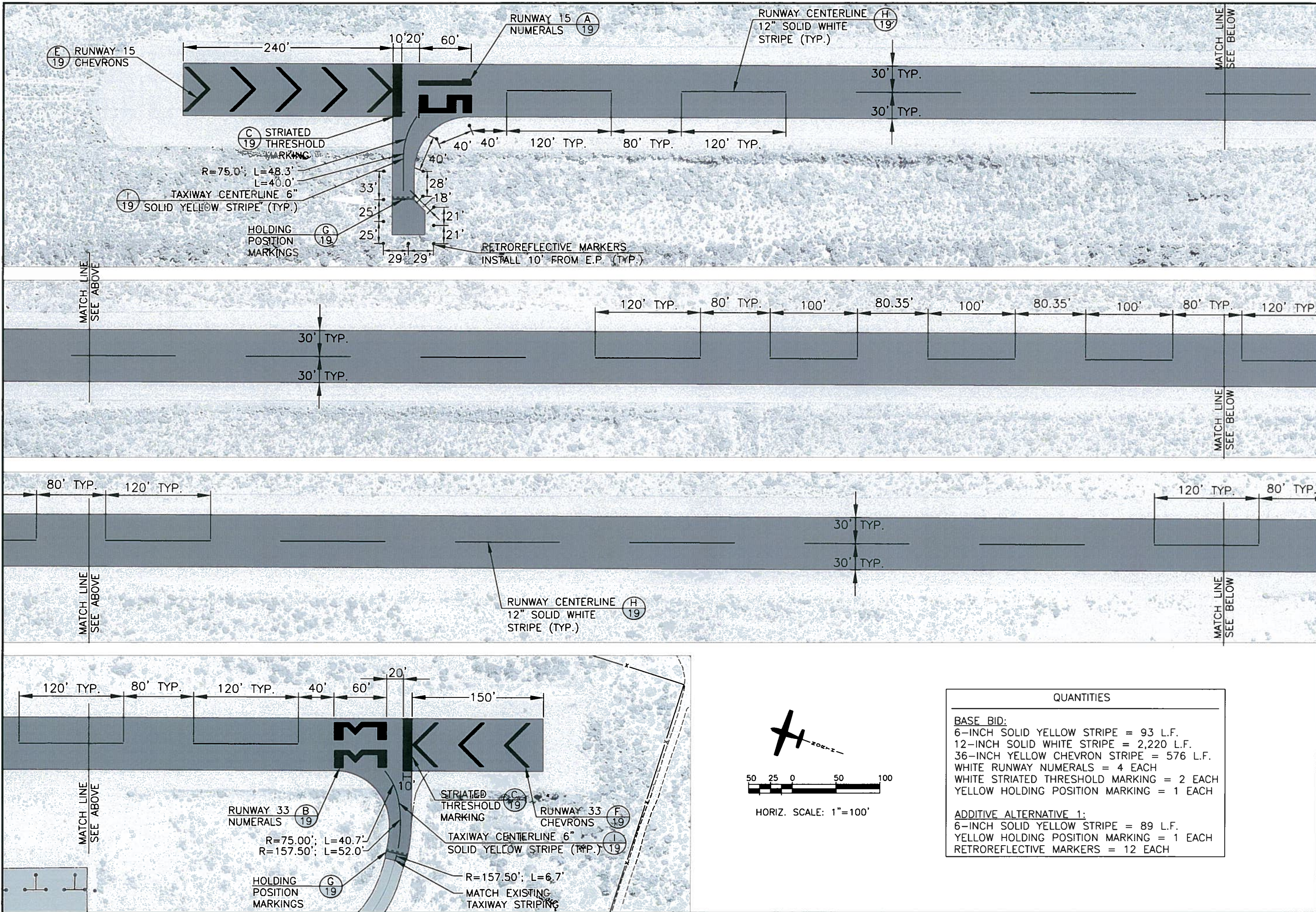
PBS
 ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

14
 SHEET 14 OF 49

5/6/10

ISSUED FOR CONSTRUCTION

X:\Mono County Airports\Lee Vining\Cadd\Runway Reconstruction\Sheets\Construction Set\03-15 P&P, Striping & Drainage.dwg
 May 06, 2010 - 1:45pm



QUANTITIES	
BASE BID:	
6-INCH SOLID YELLOW STRIPE	= 93 L.F.
12-INCH SOLID WHITE STRIPE	= 2,220 L.F.
36-INCH YELLOW CHEVRON STRIPE	= 576 L.F.
WHITE RUNWAY NUMERALS	= 4 EACH
WHITE STRIATED THRESHOLD MARKING	= 2 EACH
YELLOW HOLDING POSITION MARKING	= 1 EACH
ADDITIVE ALTERNATIVE 1:	
6-INCH SOLID YELLOW STRIPE	= 89 L.F.
YELLOW HOLDING POSITION MARKING	= 1 EACH
RETROREFLECTIVE MARKERS	= 12 EACH

SCALE 1" = 100'

DESIGN BY: KMB
 CHECKED BY: JWC
 DATE: 05/10

PROJECT NUMBER: 058712110

REGISTERED PROFESSIONAL ENGINEER
 KENNETH M. BROWN, JR.
 License No. 00796
 State of California
 5/6/10

LEE VINING AIRPORT
 RUNWAY RECONSTRUCTION
 STRIPING PLAN

555 Double Eagle Court
 Suite 2000
 Reno, Nevada, 89521
 Phone: 775/785-1828
 Fax: 775/785-1828

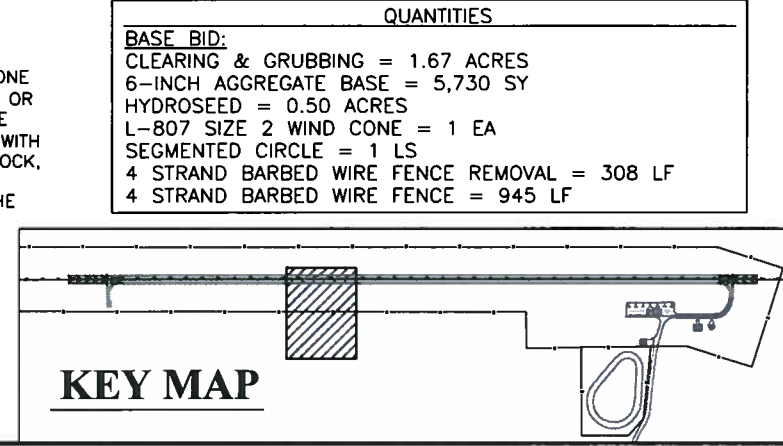
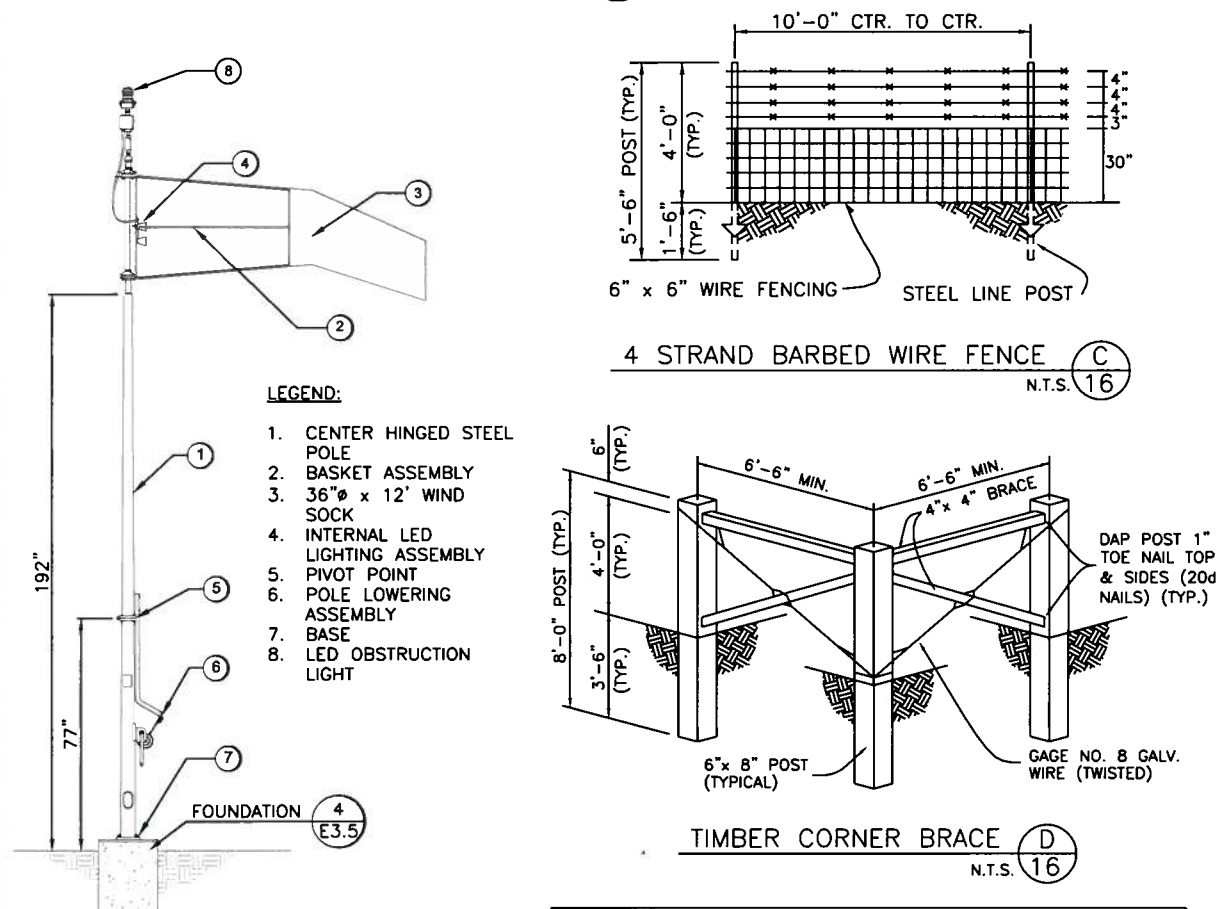
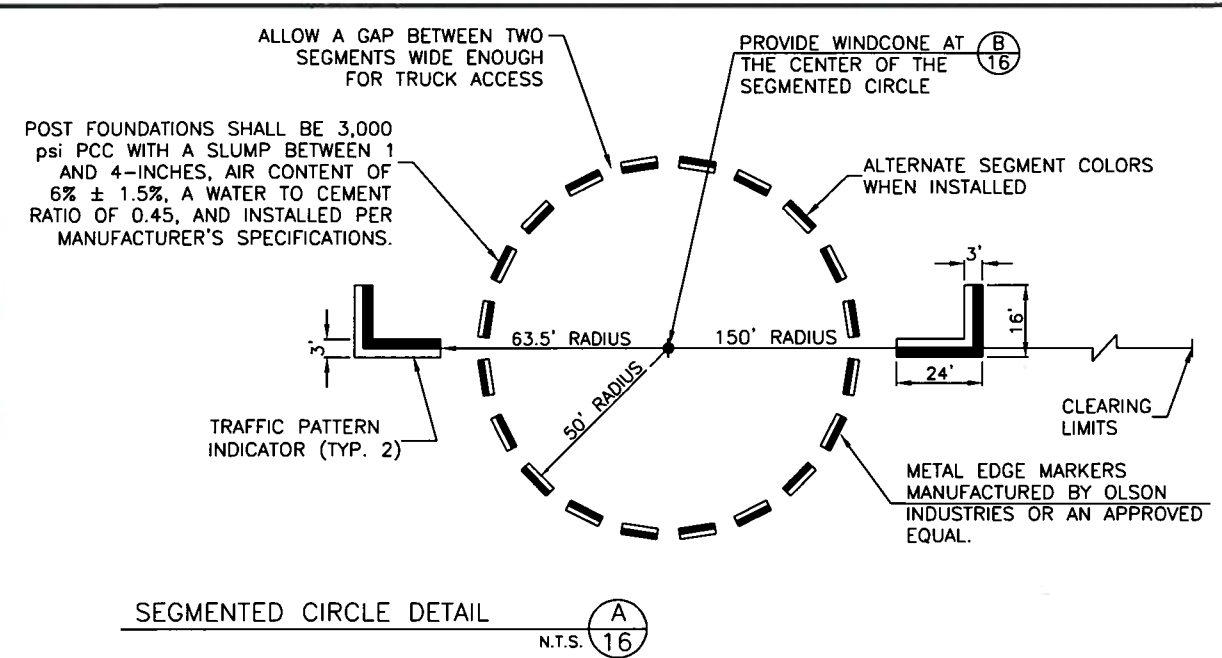
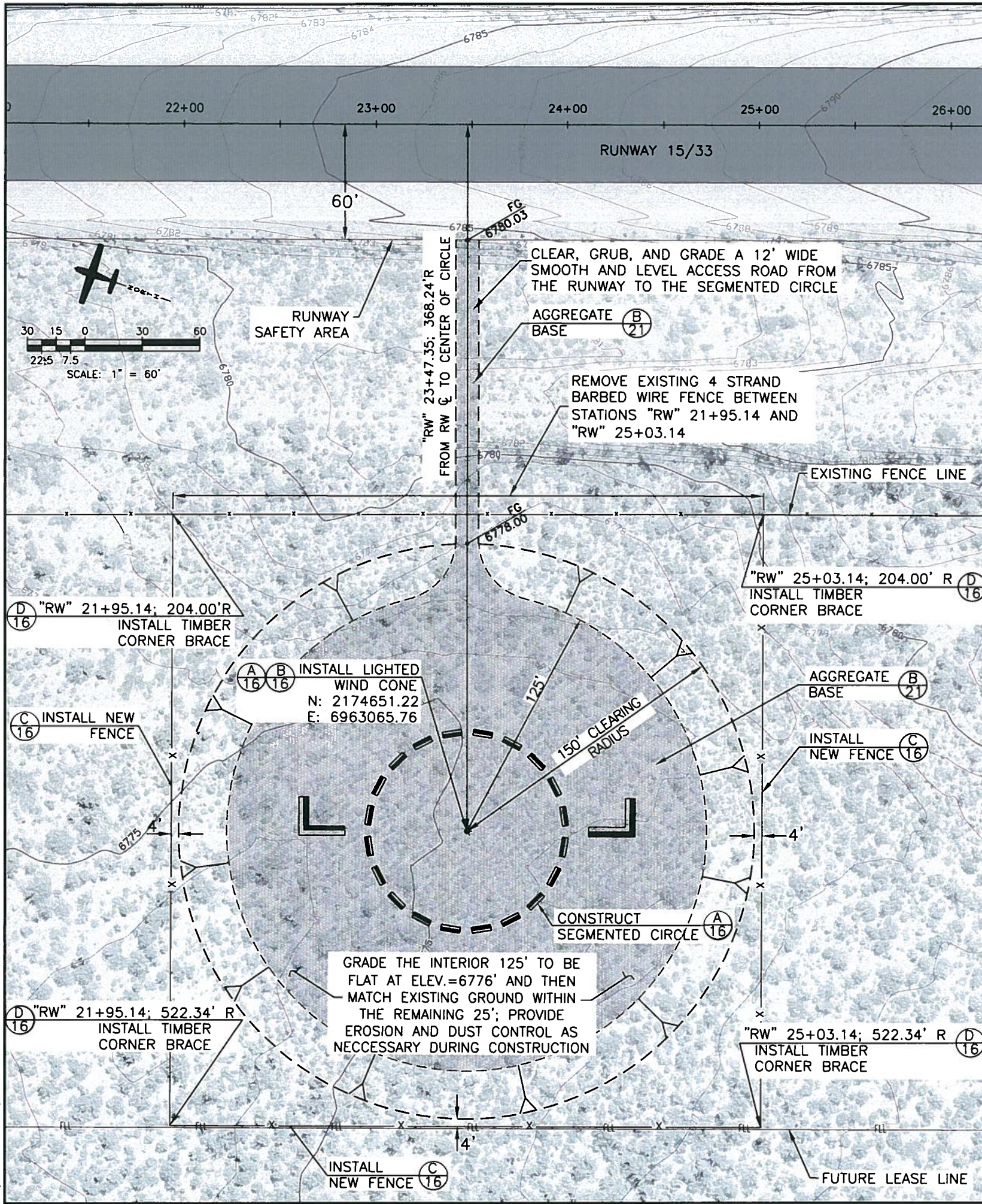
PBS&J
 ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

15
 SHEET 15 OF 49

ISSUED FOR CONSTRUCTION

X:\Mono County Airports\Lee Vining\Cadd\Runway Reconstruction\Sheets\Construction\Set116 Segmented Circle w. Windcone.dwg

May 06, 2010 - 12:24pm



SCALE	1" = 60'
DESIGN BY	JWC
DRAWN BY	KMB
CHECKED BY	JWC
DATE	05/10
PROJECT NUMBER	05B712110
REVISIONS	
DESCRIPTION	
CHECKED	
APP'D	
DATE	

LEE VINING AIRPORT
 RUNWAY RECONSTRUCTION
 SEGMENTED CIRCLE WITH
 LIGHTED WIND CONE SITE PLAN

5/6/10

535 Double Eagle Court
 Reno, Nevada, 89521
 Telephone: 775-785-1622
 Fax: 775-785-1625

PBS
 ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

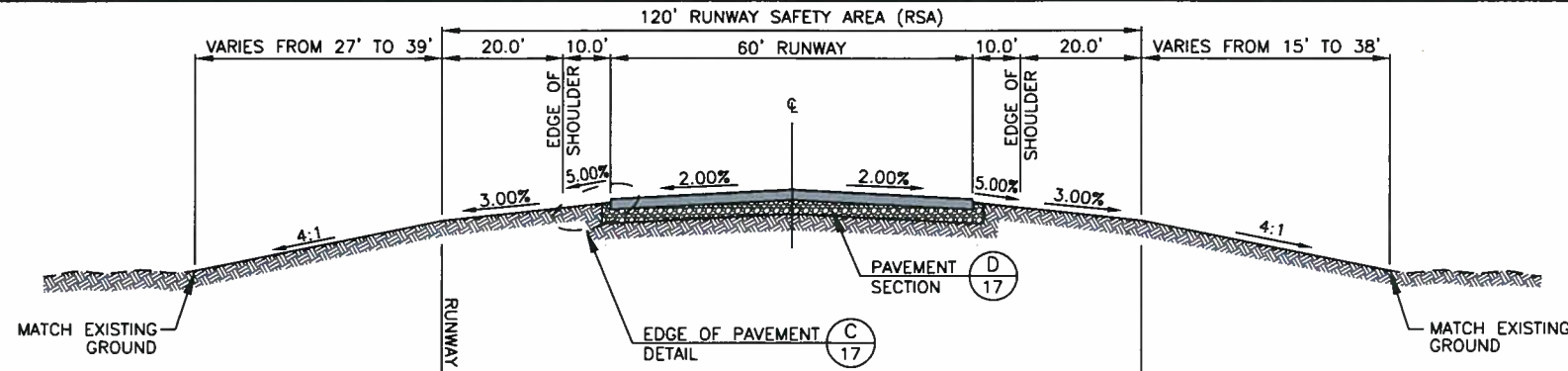
16
 SHEET 16 OF 49

ISSUED FOR CONSTRUCTION

X:\Mono County Airport\Lee Vining\Lee Vining\Runway Reconstruction\Sheets\Construction Set\17-20 Details.dwg
May 10, 2010 - 12:57pm

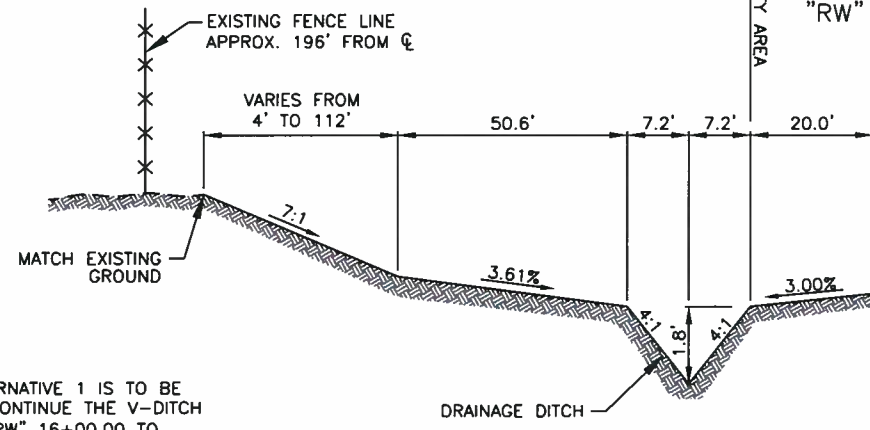
GENERAL NOTES:

- HYDROSEED APPROVED BY THE ENGINEER SHALL BE APPLIED TO ALL DISTURBED AREAS NOT RECEIVING PAVEMENT.
- CLEAR AND GRUB TO THE EXTENTS OF EARTHWORK
- SUBGRADE FOR THE RUNWAY AND 10-FOOT SHOULDERS SHALL BE SCARIFIED A MINIMUM DEPTH OF 6-INCHES AND RECOMPACTED TO 95% OF THE MAXIMUM DRY DENSITY PER ASTM D 698. THE REMAINING AREAS SHALL BE GRADED AND COMPACTED TO 90% OF THE MAXIMUM DRY DENSITY PER ASTM D 698.



TYPICAL RUNWAY SECTION A
"RW" 7+60.00 TO "RW" 50+70.00 N.T.S. 17

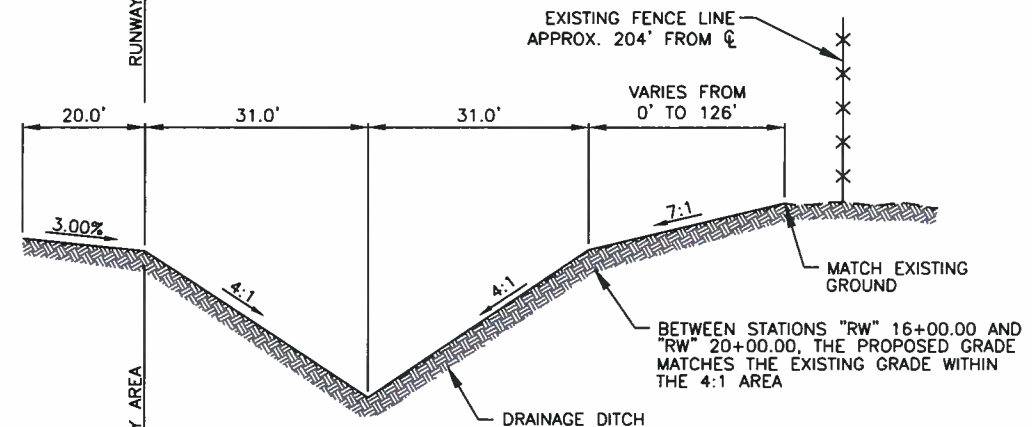
NOTE: THE TURNAROUND TAXIWAY INTERSECTS THE RUNWAY FROM STATION "RW" 9+88.00 TO "RW" 10+51.50; SEE DETAIL B ON SHEET 18 FOR TAXIWAY TURNAROUND SECTION



NOTES:

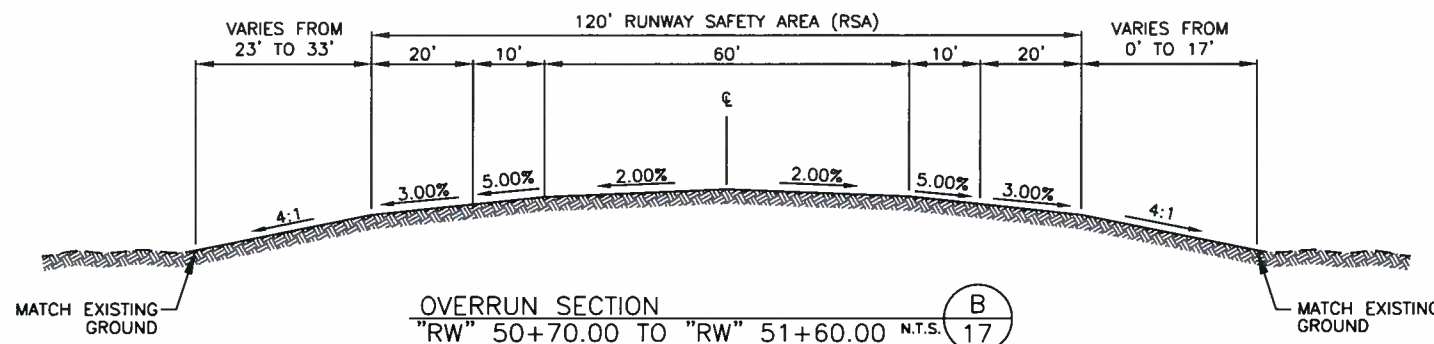
IF ADDITIVE ALTERNATIVE 1 IS TO BE CONSTRUCTED, CONTINUE THE V-DITCH FROM STATION "RW" 16+00.00 TO THE INLET OF THE DRAINAGE PIPE AT STATION "RW" 10+51.50

STATION "RW" 15+30.00 TO "RW" 46+00.00

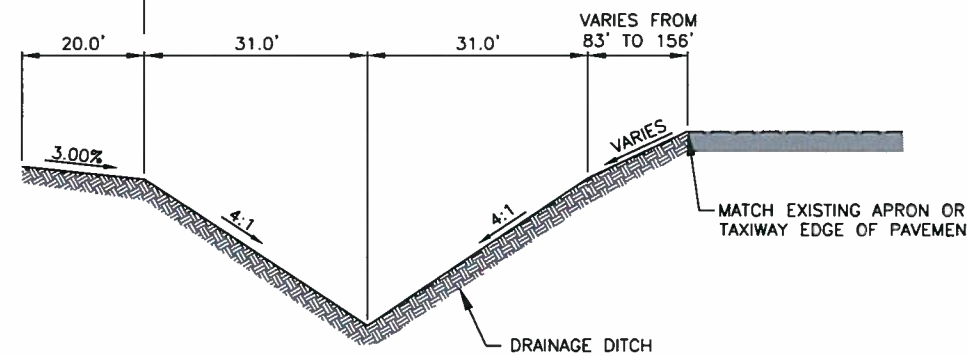


STATION "RW" 10+51.50 TO "RW" 42+51.42

BETWEEN STATIONS "RW" 16+00.00 AND "RW" 20+00.00, THE PROPOSED GRADE MATCHES THE EXISTING GRADE WITHIN THE 4:1 AREA

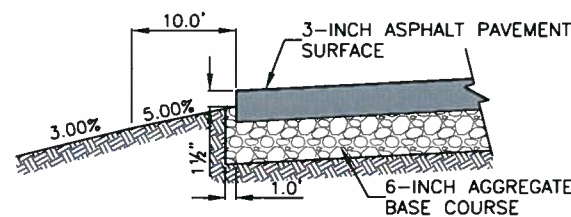


OVERRUN SECTION B
"RW" 50+70.00 TO "RW" 51+60.00 N.T.S. 17

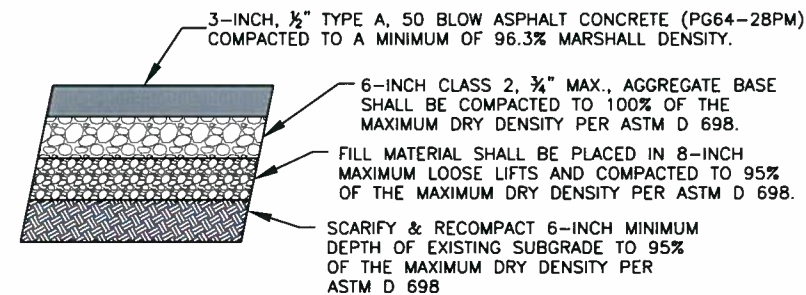


STATION "RW" 42+51.42 TO "RW" 48+50.00

NOTE: TAXIWAY A INTERSECTS THE RUNWAY FROM STATION "RW" 48+32.50 TO "RW" 49+32.00; SEE DETAIL A ON SHEET 18 FOR TAXIWAY A SECTION



EDGE OF PAVEMENT DETAIL C
N.T.S. 17



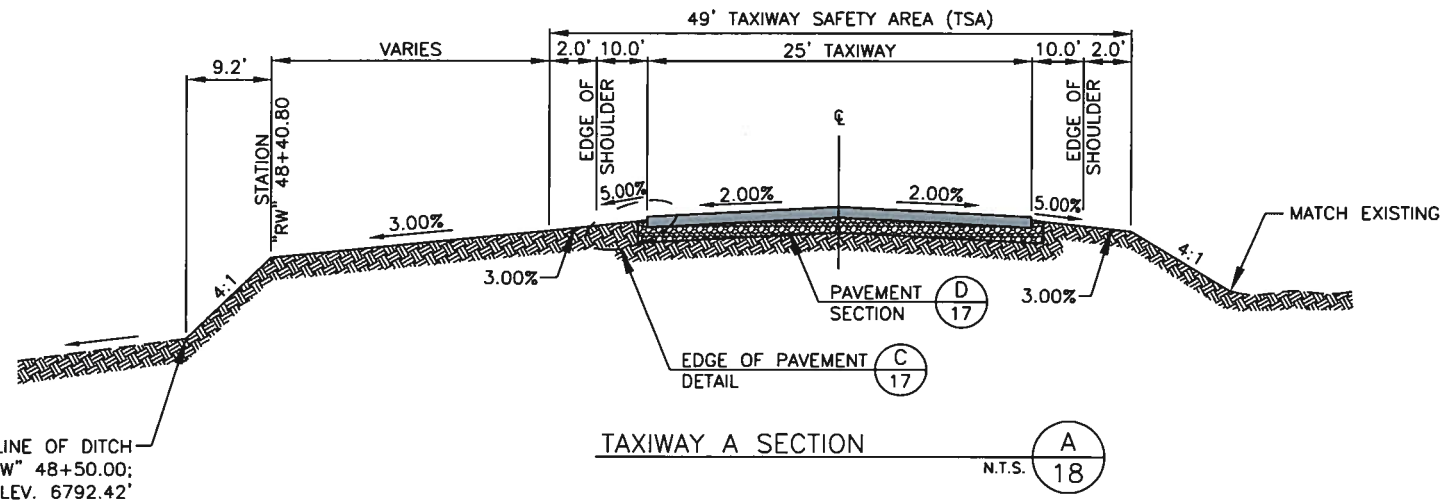
PAVEMENT SECTION D
N.T.S. 17

NOTE: RECYCLED ASPHALT CONCRETE BASE GENERATED ONSITE MAY BE USED AS AGGREGATE BASE MATERIAL PROVIDED IT MEETS THE REQUIREMENTS OF TECHNICAL SPECIFICATION P-209S.

SCALE	N.T.S.	DESIGN JWC	DRAWING JWC	CHECKED BY JWC	DATE 05/10	PROJECT NUMBER	058712110	REVISIONS	DESCRIPTION
LEE VINING AIRPORT RUNWAY RECONSTRUCTION								PAVEMENT SECTION DETAILS	
ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES									
17									
SHEET 17 OF 49									

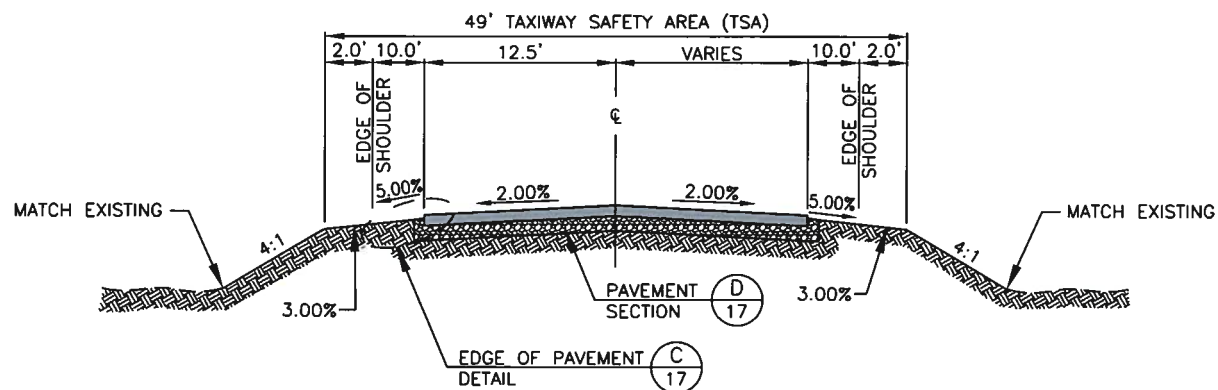
5-10-10

ISSUED FOR CONSTRUCTION



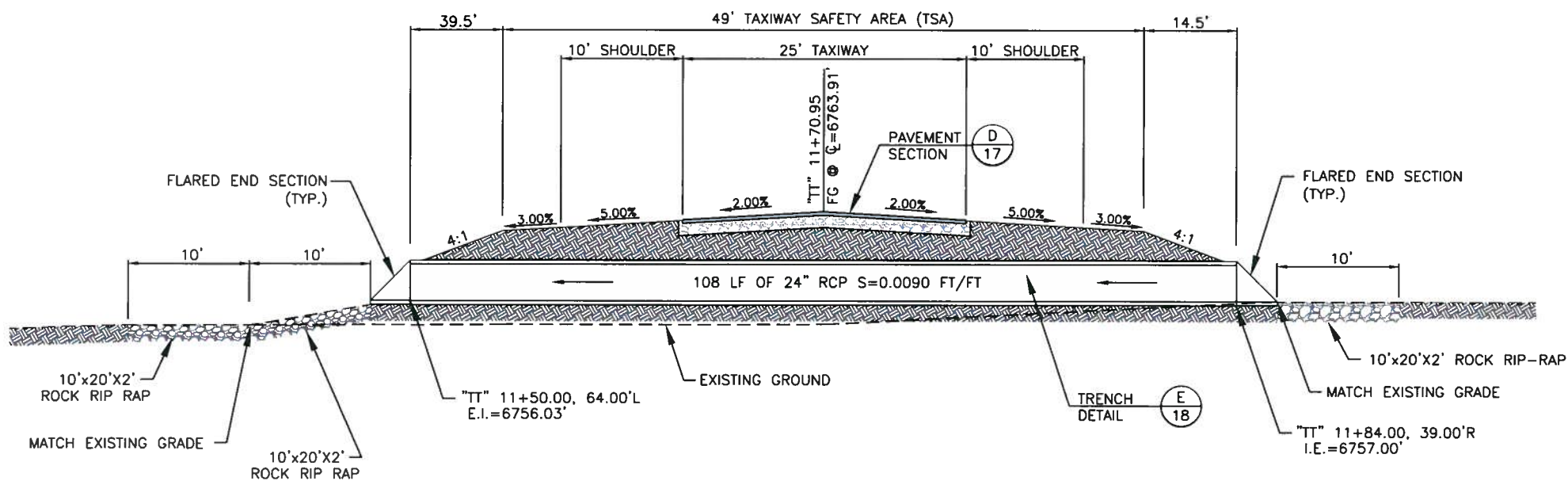
MATCH FLOW LINE OF DITCH AT STATION "RW" 48+50.00; ELEV. 6792.42'

TAXIWAY A SECTION N.T.S. (A) 18



TURNAROUND TAXIWAY SECTION N.T.S. (B) 18

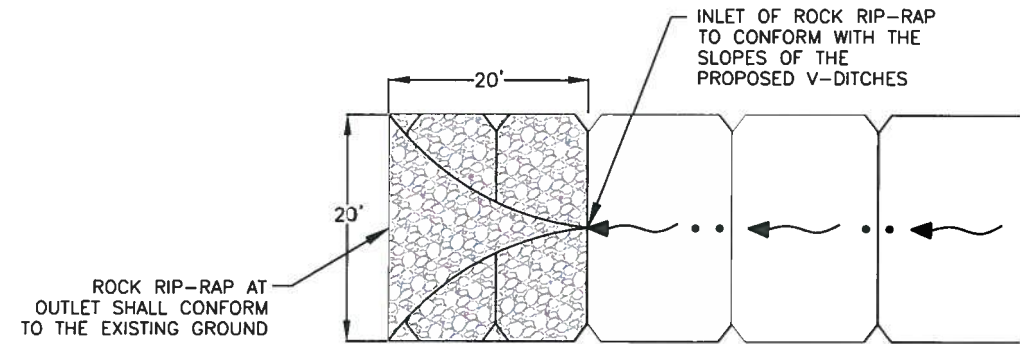
NOTE: AT STATION "TT" 11+50.00, THE AREA FROM THE TAXIWAY SAFETY AREA OUT TO 35' FROM EDGE OF PAVEMENT WILL HAVE TO BE BUILT UP IN ORDER TO PROPERLY SET THE LIGHTED HOLD SIGN.



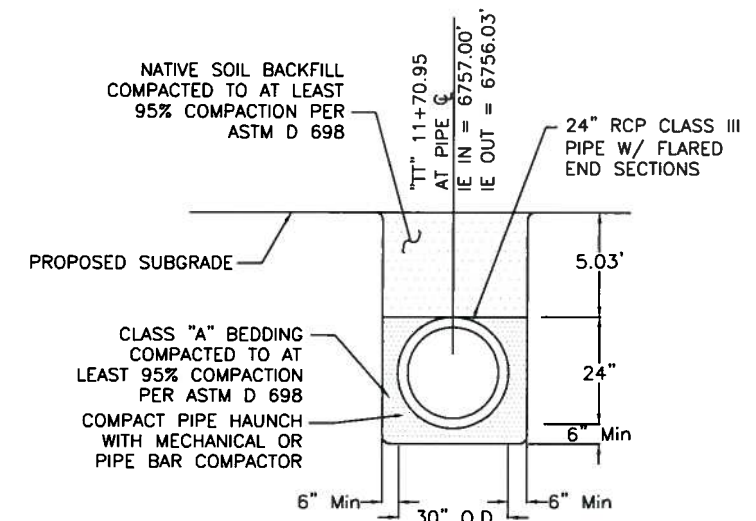
CROSS-SECTION AT CULVERT "TT" 11+70.95 N.T.S. (C) 18

GENERAL NOTES:

1. HYDROSEED APPROVED BY THE ENGINEER SHALL BE APPLIED TO ALL DISTURBED AREAS NOT RECEIVING PAVEMENT.
2. CLEAR AND GRUB TO THE EXTENTS OF EARTHWORK
3. SUBGRADE FOR THE TAXIWAY AND 10-FOOT SHOULDERS SHALL BE SCARIFIED A MINIMUM DEPTH OF 6-INCHES AND RECOMPACTED TO 95% OF THE MAXIMUM DRY DENSITY PER ASTM D 698. THE REMAINING AREAS SHALL BE GRADED AND COMPACTED TO 90% OF THE MAXIMUM DRY DENSITY PER ASTM D 698.



24" THICK ROCK RIP-RAP N.T.S. (D) 18



24" RCP TRENCH DETAIL N.T.S. (E) 18

SCALE	N.T.S.	DESIGN BY	JWC	DATE	05/10	PROJECT NUMBER	058712110
DRAWN BY	JWC	CHECKED BY	JWC				
REGISTERED PROFESSIONAL ENGINEER	JAMES CLARK JR.		C 07998		Exp. 03-31-11		
REGISTERED PROFESSIONAL CIVIL ENGINEER	JAMES CLARK JR.		C 07998		Exp. 03-31-11		
REVISIONS	REV.	DATE	DESCRIPTION	CHECKED	APP'D		

LEE VINING AIRPORT
RUNWAY RECONSTRUCTION
PAVEMENT SECTION DETAILS
AND DRAINAGE DETAILS

353 Double Eagle Court
Reno, Nevada 89521
Telephone: 775/628-1822
Fax: 775/628-1828

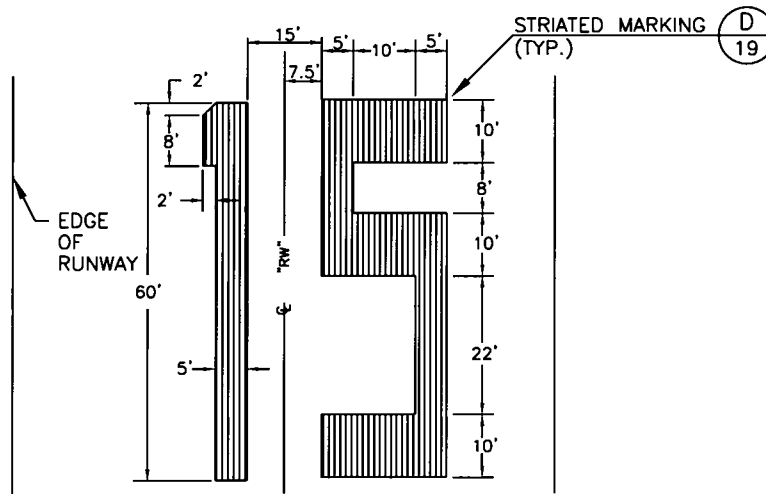
PBSJ
ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

X:\Mono County Airports\Lee Vining\Cadd\Runway Reconstruction\Sheets\Construction Set\17-20 Details.dwg
May 06, 2010 - 12:25pm

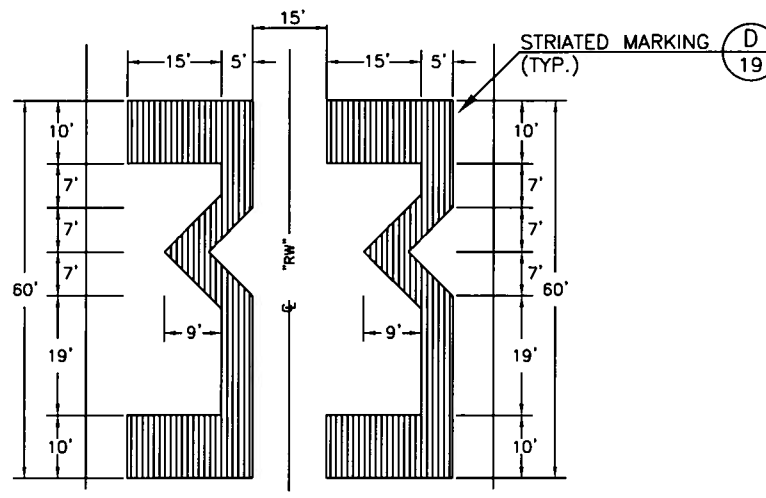
5/6/10

ISSUED FOR CONSTRUCTION

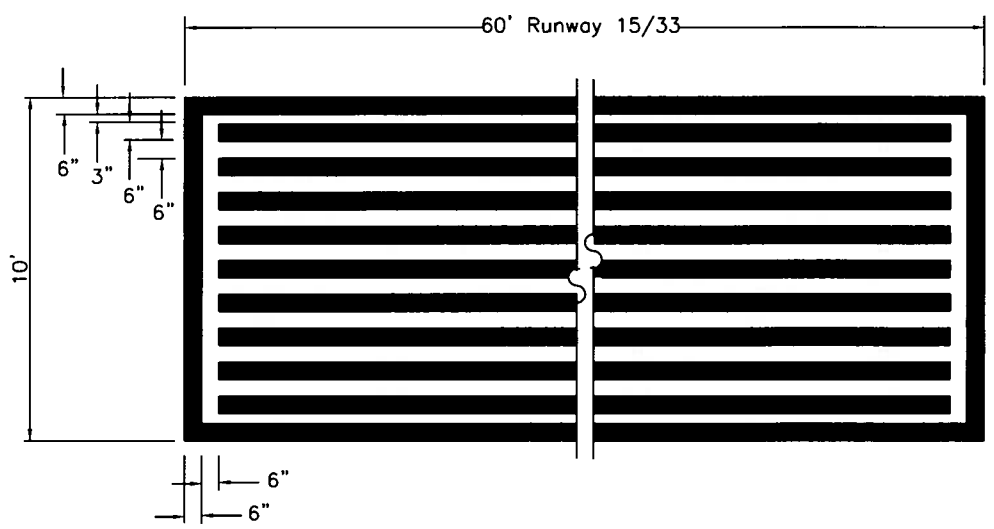
X:\Mono County Airports\Lee Vining\Cadd\Runway Reconstruction\Sheets\Construction Set\17-20 Details.dwg
 May 06, 2010 - 12:25pm



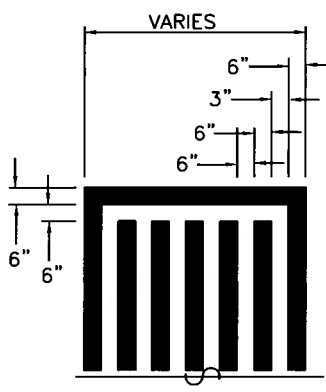
RUNWAY 15 NUMERALS (A) N.T.S. 19



RUNWAY 33 NUMERALS (B) N.T.S. 19

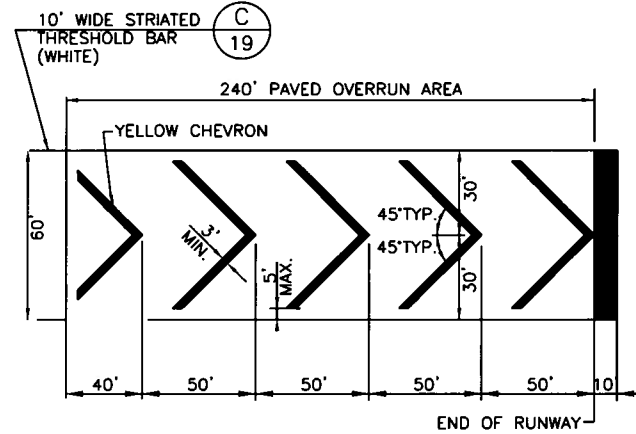


STRIATED THRESHOLD MARKING (C) N.T.S. 19

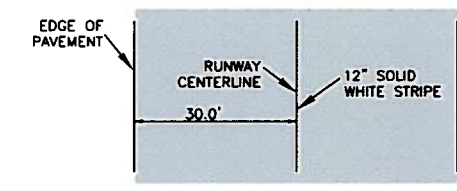


STRIATED MARKING (D) N.T.S. 19

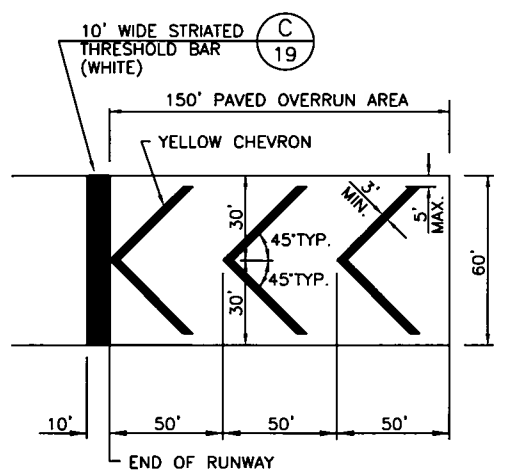
- NOTES:
1. STRIATED MARKING IS AS SHOWN WITH ALL STRIPES AND SPACES TO BE AN EQUAL WIDTH OF 6 INCHES.
 2. THE RUNWAY NUMERALS (SEE DETAILS A-19 AND B-19) SHALL BE STRIATED AS SHOWN KEEPING THE STRIATIONS PARALLEL TO THE RUNWAY CENTERLINE.
 3. USE A 6 INCH OUTLINING BORDER AROUND ALL NUMERALS.



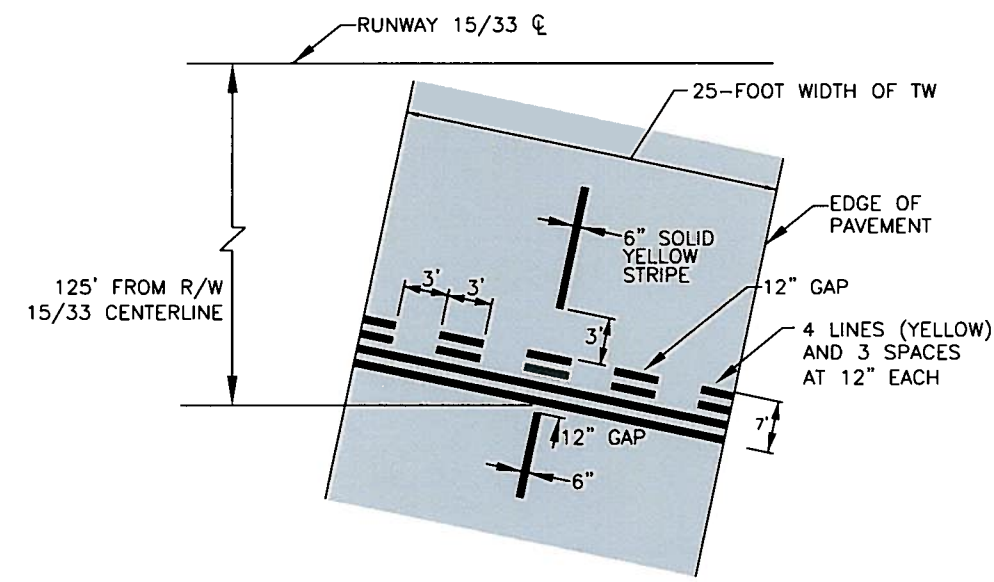
RUNWAY 15 CHEVRONS (E) N.T.S. 19



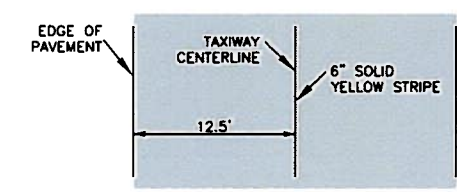
RUNWAY CENTERLINE MARKING (H) N.T.S. 19



RUNWAY 33 CHEVRONS (F) N.T.S. 19

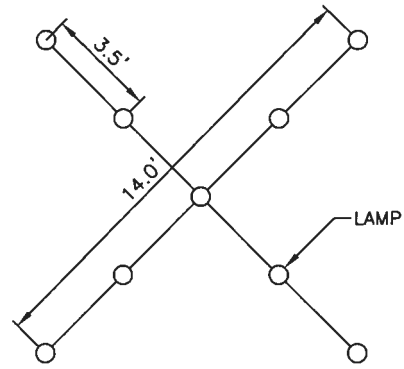


HOLDING POSITION MARKING (G) N.T.S. 19



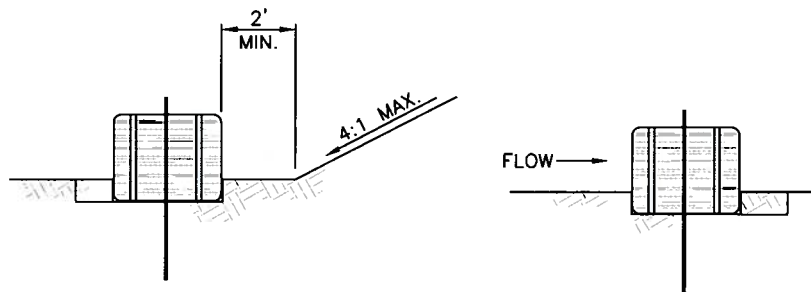
TAXIWAY CENTERLINE MARKING (I) N.T.S. 19

SCALE	N.T.S.	DESIGN BY	JWC	CHECKED BY	JWC	DATE	05/10	PROJECT NUMBER	058712110
<p>LEE VINING AIRPORT RUNWAY RECONSTRUCTION STRIPING DETAILS</p>									
<p>555 Double Eagle Court Suite 2000 Reno, NV 89521 Telephone: 775/782-1622 Fax: 775/826-1626</p>									
<p>PBS ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES</p>									
<p>ISSUED FOR CONSTRUCTION</p>									
<p>19 SHEET 19 OF 49</p>									



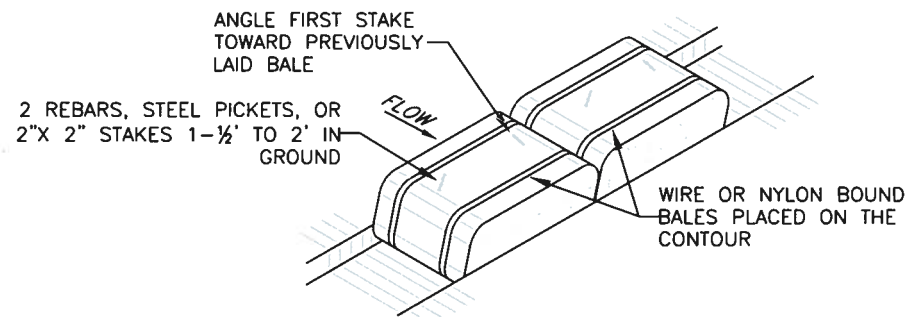
1. PROVIDE A HALI-BRITE L-893 RUNWAY CLOSURE MARKER WITH A POWER SUPPLY OR AN APPROVED EQUAL AT THE END OF EACH RUNWAY
2. RUNWAY CLOSURE SHALL MEET THE SPECIFICATIONS OF FAA AC 150/5345-55A
3. CROSSES SHALL BE PLACED ON TOP OF THE RUNWAY NUMERALS OR ON CENTERLINE IN BACK OF NUMERALS WHEN CONSTRUCTION OBLITERATES NUMBERS.

L-893 LIGHTED "X" TO INDICATE TEMPORARY RUNWAY CLOSURE NTS **A**
20



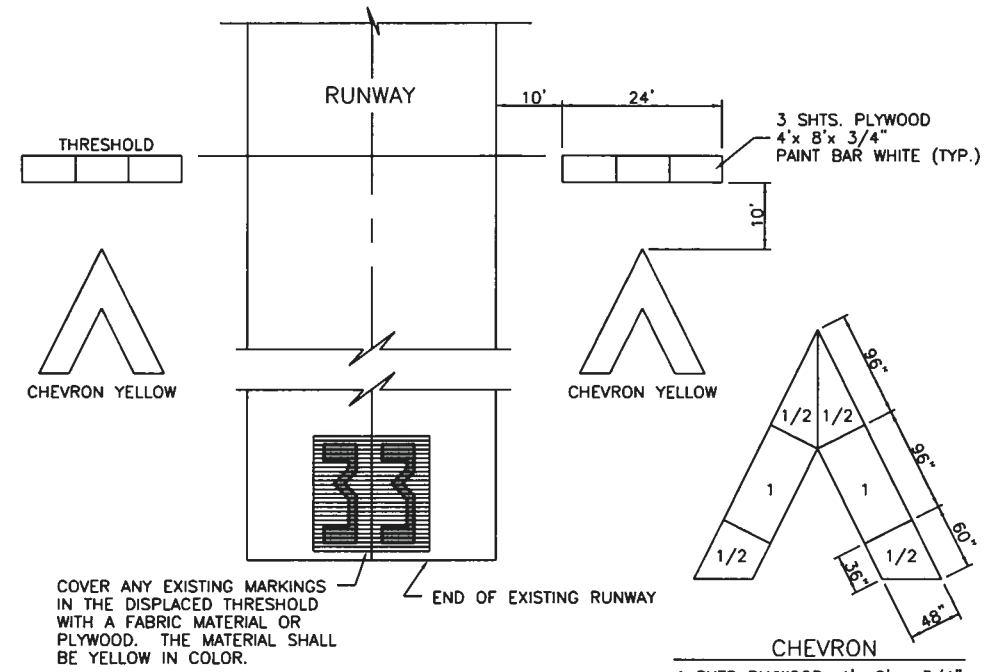
EROSION CONTROL DETAIL

EMBEDDING DETAIL



BALE EROSION CONTROL NTS **C**
20

NOTE: THE CONTRACTOR SHALL HAVE THE CHOICE OF USING EITHER BALES OR FILTER FENCE FOR EROSION CONTROL. EROSION CONTROL SHALL BE PROVIDED FOR ALL FILL SLOPES. FOR LIMITS OF GRADING SEE SHEET 13.



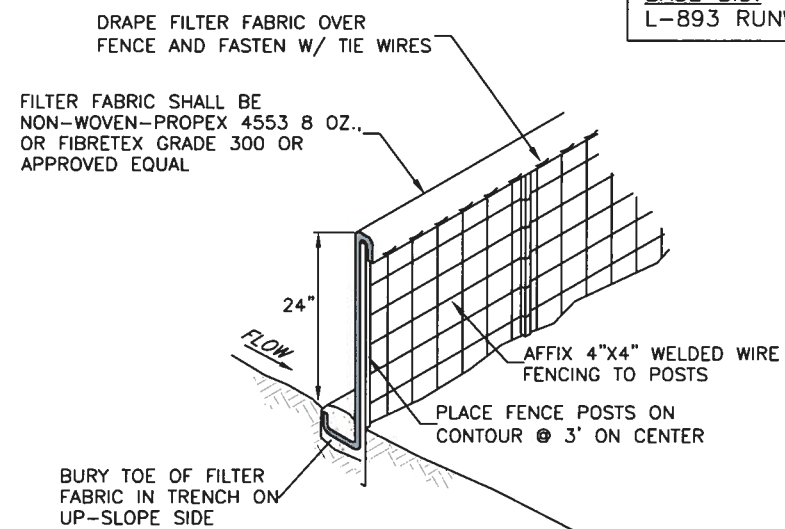
NOTE: TIE PLYWOOD SHEETS TOGETHER WITH STRAPS OR CLEATS AND ANCHOR TO GROUND TO THE SATISFACTION OF THE OWNER.

MARKINGS FOR TEMPORARY DISPLACED THRESHOLD NTS **B**
20

NOTE: THE THRESHOLD FOR A RUNWAY SHALL BE DISPLACED WHENEVER WORK IS PERFORMED WITHIN 75 FEET FROM THE SIDES OF THE RUNWAY OR 200 FEET FROM THE END OF THE RUNWAY.

QUANTITIES

BASE BID:
L-893 RUNWAY CLOSURE MARKER = 2 EACH



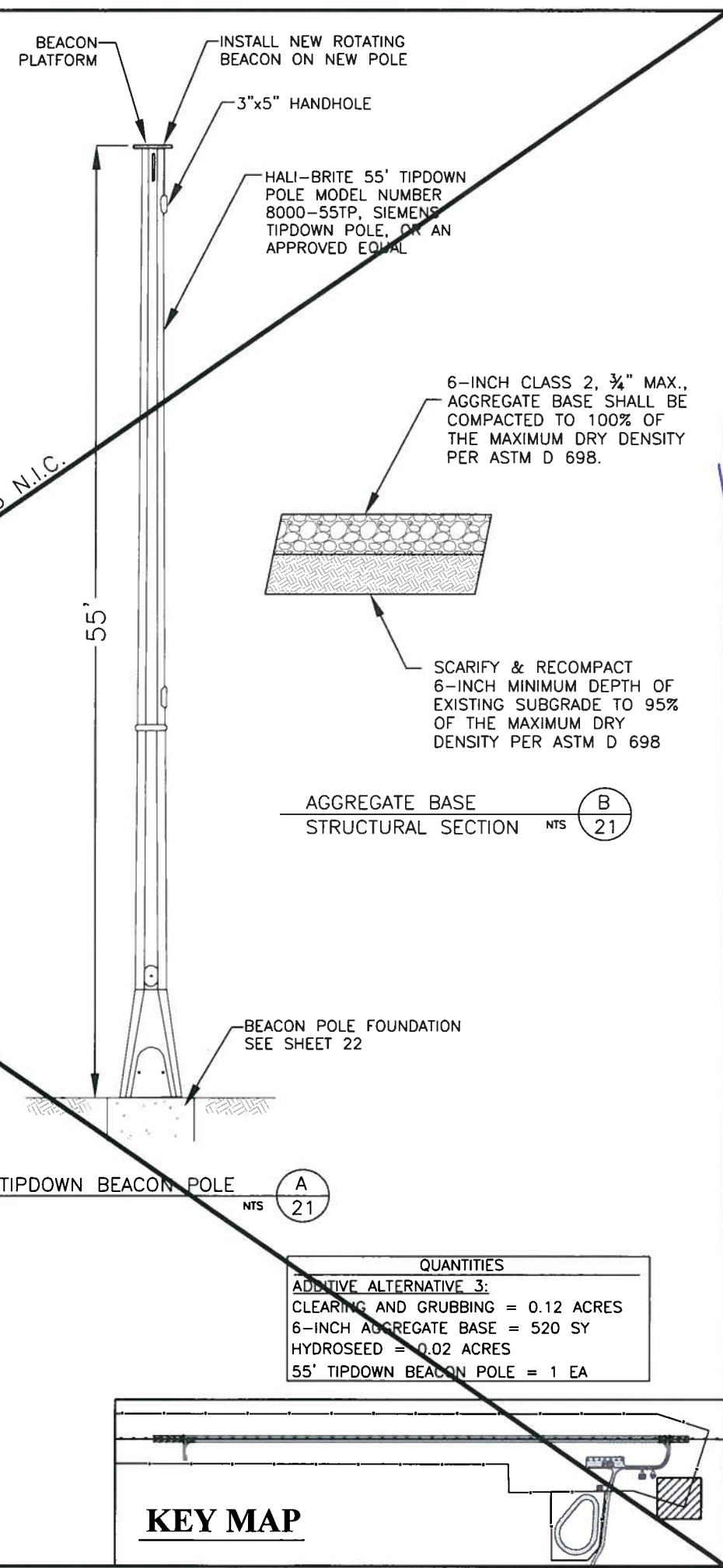
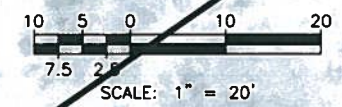
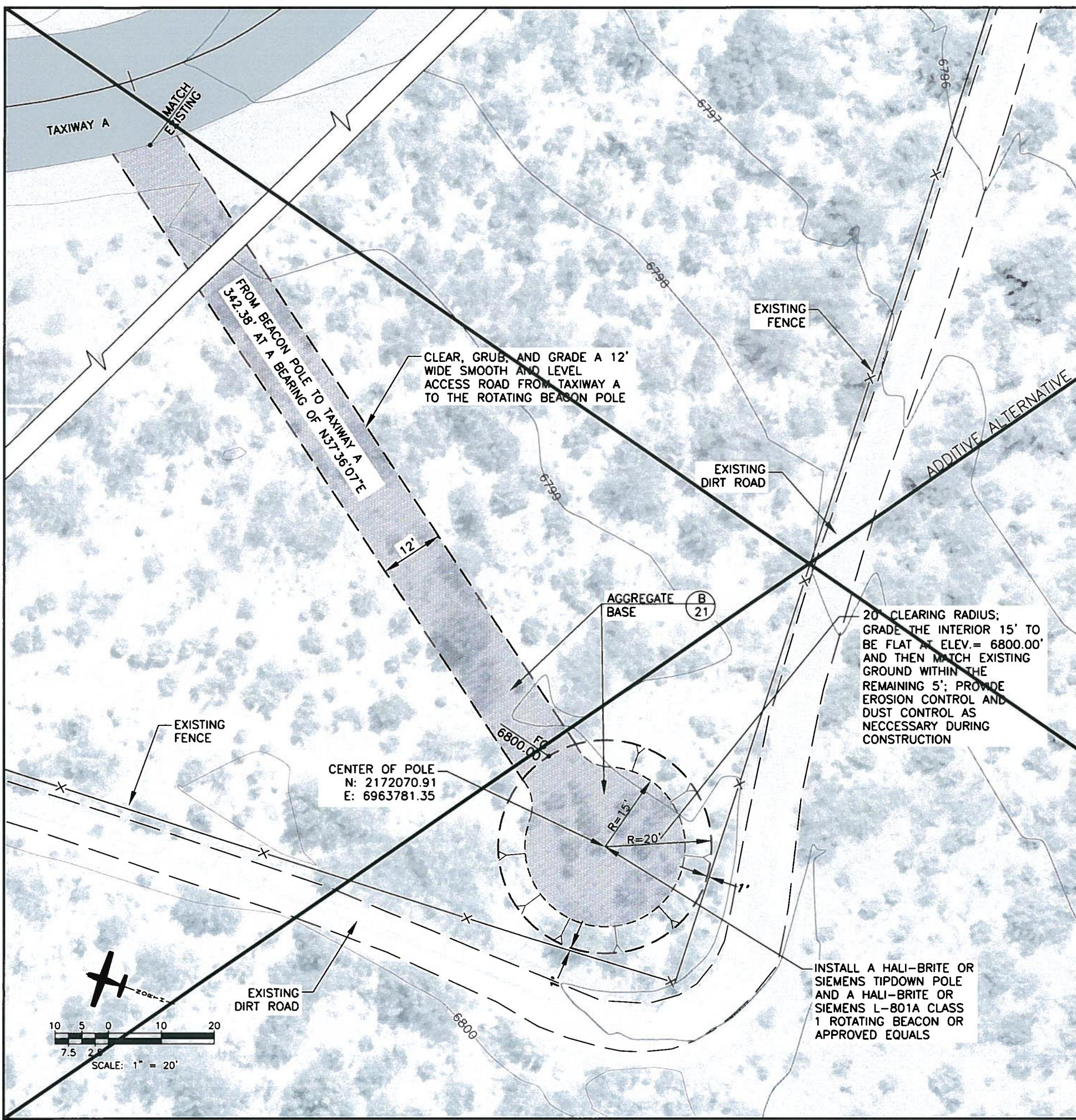
FILTER FENCE EROSION CONTROL NTS **D**
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SCALE	N.T.S.	DESIGN BY	JWC	CHECKED BY	JWC	DATE	05/10	PROJECT NUMBER	058712110
<p>LEE VINING AIRPORT RUNWAY RECONSTRUCTION</p> <p>SAFETY AND EROSION CONTROL DETAILS</p>									
<p>555 Double Eagle Court Suite 2000 Ft. Worth, Texas 76122 Phone: 775/828-1622 Fax: 775/828-1626</p> <p>PBS ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES</p>									
<p>20</p> <p>SHEET 20 OF 49</p>									

5/6/10

ISSUED FOR CONSTRUCTION

X:\Mono County Airports\Lee Vining\Road\Runway Reconstruction\Sheets\Construction Set\21-22 Rotating Beacon & Foundation.dwg
 May 06, 2010 - 12:28pm



QUANTITIES

ADDITIVE ALTERNATIVE 3:

CLEARING AND GRUBBING	= 0.12 ACRES
6-INCH AGGREGATE BASE	= 520 SY
HYDROSEED	= 0.02 ACRES
55' TIPDOWN BEACON POLE	= 1 EA

SCALE	1" = 20'
DESIGN BY	JWC
CHECKED BY	JWC
DATE	05/10
PROJECT NUMBER	05B712110
REGISTERED PROFESSIONAL ENGINEER	STATE OF CALIFORNIA
NO. 60396	EXPIRES 03-31-11
DATE	05/10
REVISIONS	
CHECKED APPD	

LEE VINING AIRPORT
 RUNWAY RECONSTRUCTION
 ADDITIVE ALTERNATIVE 3:
 ROTATING BEACON SITE PLAN

55/6/10

ISSUED FOR CONSTRUCTION

21

SHEET 21 OF 49

PBS
 ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

555 Potosi Eagle Court
 Suite 2000
 Reno, Nevada, 89521
 Fax: 775/828-1828

GENERAL

STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURES. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND BALANCING WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR.

STRUCTURAL

FOUNDATIONS DESIGNED IN ACCORDANCE WITH CBC 2007 AND ACI 318-99

FOUNDATIONS

FOUNDATIONS ARE DESIGNED IN ACCORDANCE TO THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AS PREPARED BY EASTERN SIERRA ENGINEERING, JOB NO. 044.07 DATED JANUARY 9, 2009.

- (A) ALLOWABLE SOILS BEARING = 2000 PSF
- (B) PASSIVE PRESSURE = 150 PSF

CONCRETE (EXCEPT PRECAST CONCRETE)

UNLESS OTHERWISE NOTED OR SPECIFIED, ALL STRUCTURAL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS.

REINFORCEMENT STEEL SHALL BE DEFORMED BARS CONFORMING IN QUALITY TO THE REQUIREMENTS OF ASTM A-615 "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT". GRADE 60.

ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI-315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" LATEST EDITION.

TOLERANCES IN PLACING REINFORCEMENT SHALL BE ± 3/8 INCH FOR MEMBERS WITH D ≤ 8 INCHES

ANCHOR BOLTS SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED.

UNLESS OTHERWISE INDICATED, ASIDE FROM NORMAL ACCESSORIES USED TO HOLD REINFORCING BARS FIRMLY IN POSITION, THE FOLLOWING SHALL BE ADDED:

- A) IN SLABS #5 RISER BARS AT 36 INCHES OC MAXIMUM TO SUPPORT TOP REINFORCING BARS.
- B) IN WALLS WITH 2 CURTAINS #3 U OR Z SHAPE SPACERS AT 6 FEET OC EACH WAY.

METAL CLIPS OR SUPPORTS SHALL NOT BE PLACED IN CONTACT WITH THE FORMS OR THE SUBGRADE. CONCRETE BLOCKS (OR DOBIES) SUPPORTING BARS ON SUBGRADE SHALL BE IN SUFFICIENT NUMBERS TO SUPPORT THE BARS WITHOUT SETTLEMENT, BUT IN NO CASE SHALL SUCH SUPPORT BE CONTINUOUS.

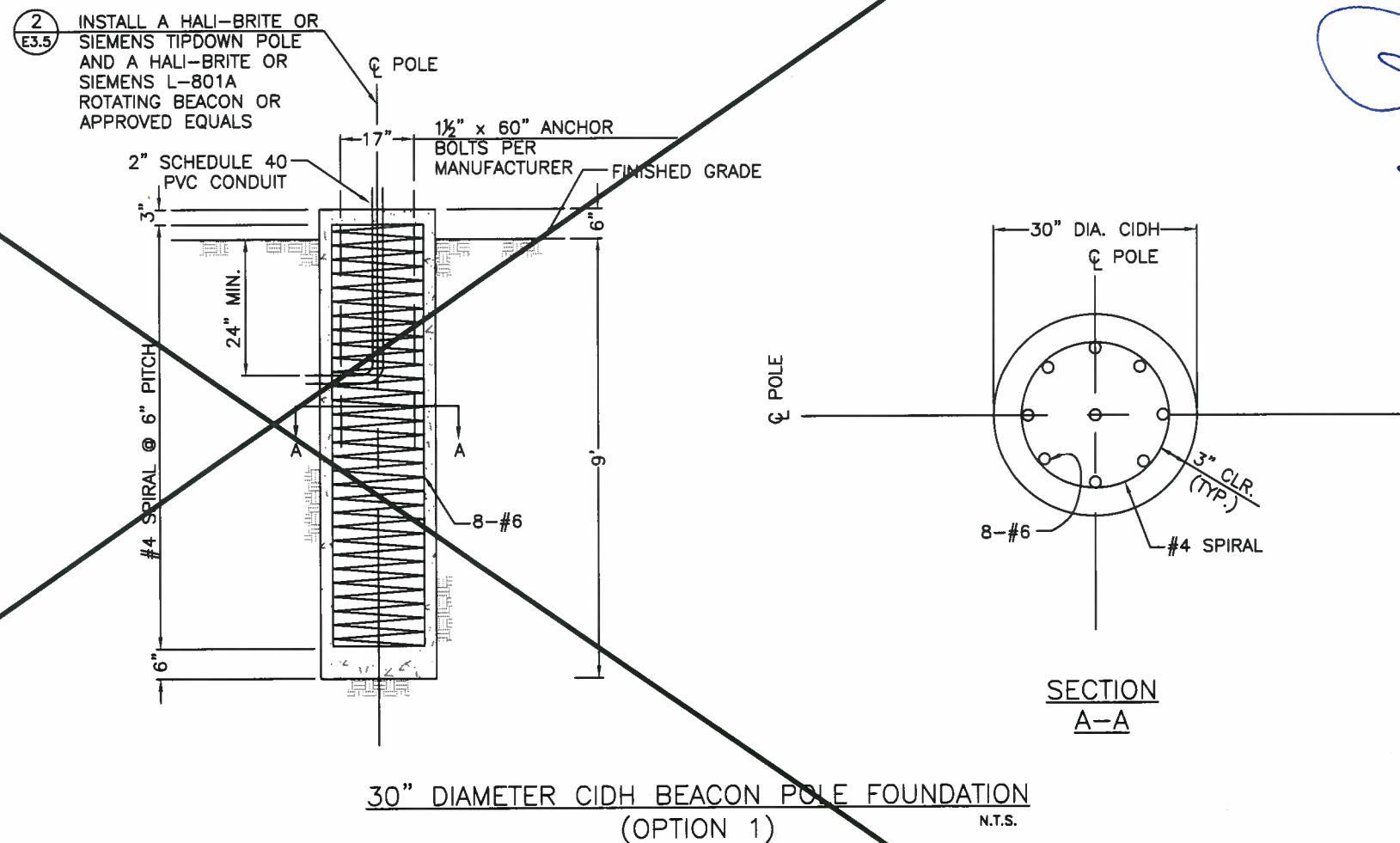
DOWELS SHALL BE WIRED OR OTHERWISE HELD IN POSITION. THEY SHALL NOT BE PLACED AFTER CONCRETE HAS BEEN POURED.

LAPS OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF ACI-318.

REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM OF 1 1/2" OF CLEARANCE SHALL BE PROVIDED AT ALL TIMES.

UNLESS OTHERWISE SHOWN, CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS:

- FOR CONCRETE PLACED AGAINST EARTH _____ 3"
- FOR SURFACES IN CONTACT WITH WATER OR WEATHER AND FORMED SURFACES IN CONTACT WITH EARTH:
 - #6 OR LARGER _____ 2"
 - #6 TO #5 _____ 1 1/2"
- FOR CONCRETE NOT EXPOSED TO WEATHER. OR IN CONTACT WITH WATER OR EARTH _____ 1-1/2"



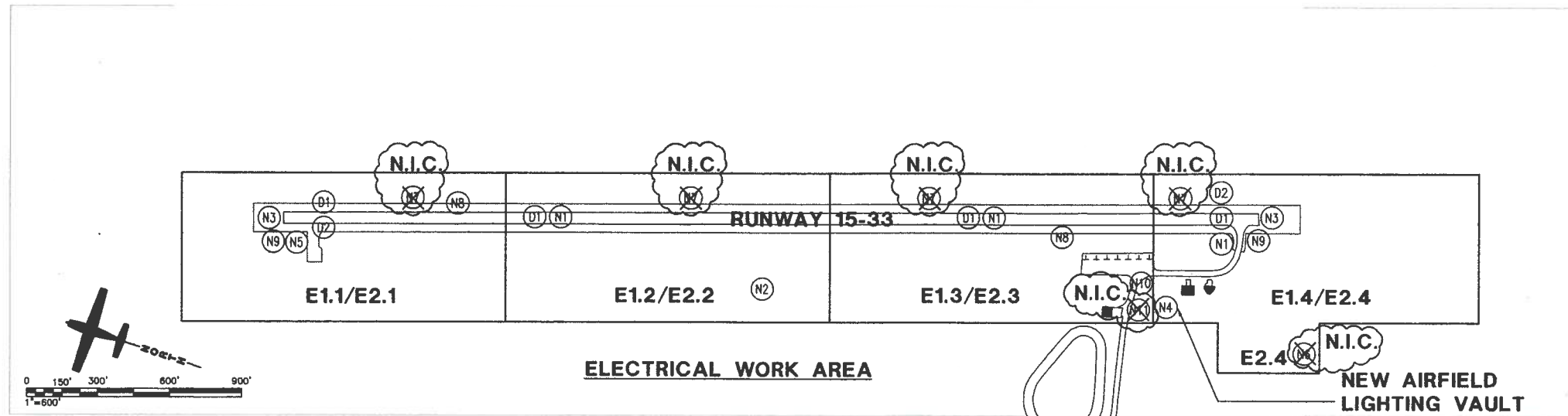
ADDITIVE ALTERNATIVE #3 N.I.C.



SCALE	N.T.S.	DESIGN BY	J.C.	CHECKED BY	J.M.C.	DATE	05/10	PROJECT NUMBER	058712110
LEE VINING AIRPORT RUNWAY RECONSTRUCTION									
ADDITIVE ALTERNATIVE 3: BEACON POLE FOUNDATION									
PBSJ ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES 22 SHEET 22 OF 49									

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May 06, 2010 - 8:47am

ISSUED FOR CONSTRUCTION



SCOPE OF DEMOLITION WORK (BASE BID)

- (D1) REMOVE EXISTING LOW-INTENSITY RUNWAY EDGE LIGHTS, BASECANS AND ASSOCIATED CONDUITS AND CABLES.
- (D2) REMOVE EXISTING RUNWAY THRESHOLD LIGHTS, BASECANS, ASSOCIATED CONDUITS AND CABLES.

SCOPE OF NEW ELECTRICAL WORK (BASE BID)

- (N1) INSTALL NEW MEDIUM-INTENSITY RUNWAY EDGE LIGHTS WITH LIGHTED HOLD SIGN ON NEW BASECANS WITH NEW ISO-TRANSFORMER, CABLE, AND CONDUIT.
- (N2) PROVIDE POWER TO AND INSTALL NEW WINDCONE.
- (N3) INSTALL NEW THRESHOLD LIGHTS ON NEW BASECANS WITH NEW ISO-TRANSFORMER, CABLE, AND CONDUIT.
- (N4) BUILD NEW VAULT BUILDING AND PROVIDE ALL REQUIRED INFRASTRUCTURE.

SCOPE OF NEW ELECTRICAL WORK (ADDITIVE ALTERNATIVES)

- (N5) INSTALL NEW LIGHTED HOLD SIGNS ON NEW CONCRETE BASES WITH NEW BASECANS WITH NEW ISO-TRANSFORMERS, CABLE, AND CONDUIT. ADD ALT.#1

- (N6) PROVIDE INSTALL AND CONNECT NEW BEACON. ADD ALT.#3
- (N7) INSTALL NEW RDR SIGNS ON NEW CONCRETE BASES WITH NEW BASECANS, NEW ISO-TRANSFORMERS, CABLE, AND CONDUIT. ADD ALT.#7

- (N8) INSTALL NEW PAPI'S ON NEW CONCRETE BASES WITH NEW BASECANS, CABLE, AND CONDUIT. ADD ALT.#4
- (N9) INSTALL NEW REILS ON NEW CONCRETE BASES WITH NEW ISO-TRANSFORMERS, CABLE, AND CONDUIT. ADD ALT.#6

- (N10) PROVIDE INSTALL AND CONNECT NEW AWOS. ADD ALT.#2
- (N11) PROVIDE INSTALL AND CONNECT NEW APRON LIGHTS. ADD ALT.#5

AIRFIELD ELECTRICAL SYMBOLS

- EXISTING PAVEMENT
- EDGE OF NEW CONCRETE PAVEMENT
- EDGE OF NEW SHOULDER
- (NEW) 2" PVC W/ #8-5KV L-824 TYPE "C" CABLE (QTY OF CONDUCTORS AS REQ'D FOR CIRCUIT)
- EXISTING CONDUIT
- - - - REMOVE CONDUIT
- NEW DUCT
- EXISTING DUCT
- - - - REMOVE DUCT
- (N)15PAPI → (NEW) LIGHTING CIRCUIT INDICATOR
- (E)15VASI (EXISTING) LIGHTING CIRCUIT INDICATOR
- (R)15VASI → (REMOVE) LIGHTING CIRCUIT INDICATOR
- (N) POWER
- (E)3.1 (N) 33REIL NEW DUCT DETAIL DESIGNATION AND CIRCUIT FILL INFO.
- (E) POWER
- (E) 33REIL
- EXISTING DUCT DETAIL DESIGNATION AND CIRCUIT FILL INFO.
- BASE CAN WITH BLANK COVER. (L-867 OR L-868 AS NOTED ON DRAWINGS)
- REIL
- WINDCONE
- BEACON
- APRON LIGHT
- PAPI (REF DATA AS INDICATED)
- NEW CONCRETE PULLBOX (REF DATA AS INDICATED)
- DEMOLITION CONCRETE PULLBOX (REF DATA AS INDICATED)
- EXISTING CONCRETE PULLBOX (REF DATA AS INDICATED)
- AIRFIELD GUIDANCE SIGN (REF DATA AS INDICATED)
- AIRFIELD LIGHT FIXTURE, SEE TABLE THIS SHEET (REF DATA AS INDICATED)
- CONDUIT STUB OUT
- REFERENCE SHEET CALLOUT
- DEMOLITION SHEET NOTE DESIGNATOR
- SHEET NOTE DESIGNATOR
- CURVE DATA DESIGNATOR

SIGN SYMBOL LIST

- L-858 SIZE 2 RUNWAY AND TAXIWAY GUIDANCE SIGN WITH DESIGNATION LEGEND.
- L-858L OR L-858R L-858L L-858Y L-858R L-858B
- L-858R MANDATORY SIGN (WHITE LEGEND WITH A BLACK OUTLINE ON A RED BACKGROUND)
- L-858L RUNWAY/TAXIWAY LOCATION SIGN (YELLOW LEGEND AND BORDER ON A BLACK BACKGROUND)
- L-858B RUNWAY DISTANCE REMAINING SIGN (WHITE LEGEND ON A BLACK BACKGROUND)
- L-858R BLANK FACE
- R/W SAFETY ZONE SIGN (BLACK ON YELLOW)

ABBREVIATIONS:

- AP ANGLE POINT
- ASPH ASPHALT
- ATCT AIR TRAFFIC CONTROL TOWER
- B BLUE OPTICAL FILTER COLOR
- BC BASE CAN
- BL OBSCURE OR BLANK OPTICAL FILTER COLOR
- C, CNDT CONDUIT
- CALCS COMPUTER AIRFIELD LIGHTING CONTROL SYSTEM
- CKT CIRCUIT
- CONC CONCRETE
- COVER BLANK COVER ON L-867 OR L-868 BASE
- DWGS DRAWINGS
- EC EMPTY CONDUIT
- (E) EXISTING
- (F) FUTURE
- FO FIBER OPTIC
- G GREEN OPTICAL FILTER COLOR
- ISO ISOLATED
- ISO-XFMR ISOLATION TRANSFORMER
- LHA LIGHT HEAD ASSEMBLIES
- MIN MINIMUM
- (N) NEW
- O.C. ON CENTER
- N.I.C. NOT IN CONTRACT
- NTS NOT TO SCALE
- PB PULL CABLES BACK
- P.O.C. POINT OF CONNECTION
- PT POINT OF TANGENCY
- PVC POLYVINYL CHLORIDE
- (R) REMOVE
- RDR RUNWAY DISTANCE REMAINING
- RE RED OPTICAL FILTER COLOR
- (RL) RELABEL (OR RETAG) EXISTING CKT OR FIXTURE TO INDICATED NAME
- (RR) EQUIPMENT TO BE REMOVED FOR TEMPORARY OR PERMANENT RECONNECTION OF CIRCUITING IN THE BASE CAN AND THEN REINSTALLED
- RSA RUNWAY SAFETY AREA
- R/W, RWY RUNWAY
- SEC SECONDARY CABLES FROM THE ISOLATION TRANSFORMER
- SP SPACES
- STA: STATION VALUE OF RUNWAY OR TAXIWAY CENTERLINE
- (TE), TEMP. TEMPORARY
- T/W, TWY TAXIWAY
- UN UNLESS OTHERWISE NOTED
- W WHITE OPTICAL FILTER COLOR
- W/ WITH
- XFMR TRANSFORMER

LIGHT FIXTURE TABLE	
(A)	EXISTING LOW INTENSITY RUNWAY EDGE LIGHT - WHITE GLOBE
(B)	EXISTING LOW INTENSITY RUNWAY THRESHOLD LIGHT, RED/GREEN GLOBE STAKE MOUNTED L-861
(C)	NEW ELEVATED L-861 MEDIUM INTENSITY RUNWAY EDGE LIGHT - WHITE GLOBE
(D)	NEW ELEVATED THRESHOLD LIGHT
(E)	EXISTING STAKE MOUNTED TAXIWAY EDGE LIGHT, BLUE GLOBE, L-861
(F)	NEW ELEVATED L-861T MEDIUM INTENSITY TAXIWAY EDGE LIGHT - BLUE GLOBE

ELECTRICAL DRAWING INDEX	
DRAWING #	DRAWING TITLE
E0.1	SCOPE OF WORK, ELECTRICAL SHEET INDEX, ELECTRICAL PLANS KEYMAP, ABBREVIATIONS, ELECTRICAL SYMBOLS
E1.1-E1.4	ELECTRICAL DEMOLITION PLANS
E2.1-E2.4	ELECTRICAL LAYOUT PLANS
E3.1-E3.8	TYPICAL ELECTRICAL INSTALLATION DETAILS
E4.1-E4.3	AIRFIELD LIGHTING VAULT BUILDING
E5.1-E5.2	PAPI PLAN AND PROFILE
(22) SHEETS TOTAL	

LEE VINING AIRPORT
RUNWAY RECONSTRUCTION
ELECTRICAL COVER SHEET

SCALE AS NOTED
DESIGN BY TLF
DATE 03/09
CHECKED BY TAP
PROJECT NUMBER 05871-2110

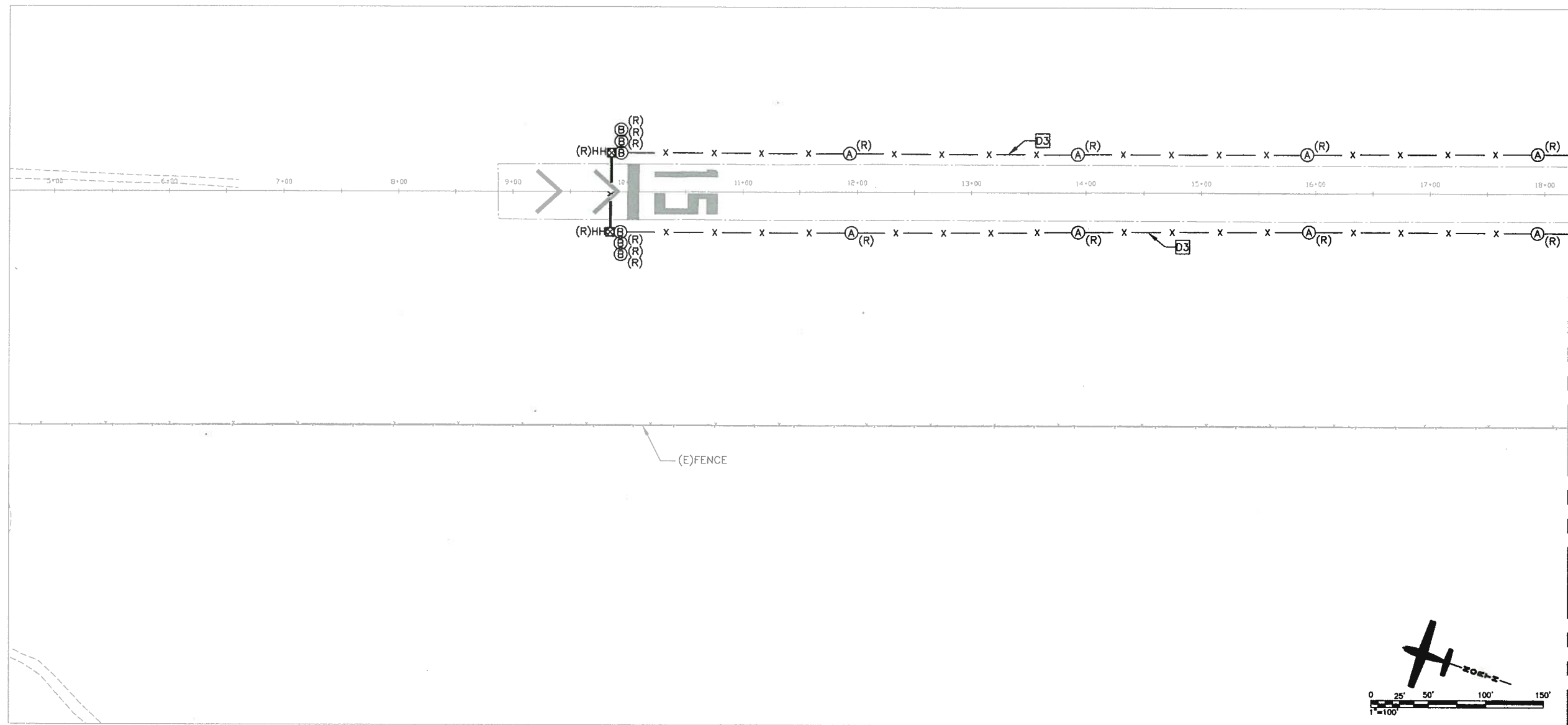
NO. 015182
EXP. 6/30/10
STATE OF CALIFORNIA
ELECTRICAL ENGINEER

MECHANICAL ELECTRICAL AND AIRFIELD CONSULTING ENGINEERS
985 GENTRY WAY
SUITE 2000
IRVINE, CALIFORNIA 92614
TEL: 949-453-8822
FAX: 949-453-8828
WWW.DINTER.COM
J-4107

E0.1
SHEET 23 OF 49

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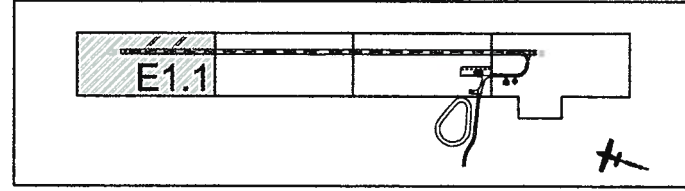
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Apr 28, 2010 - 2:12pm



1 ELECTRICAL DEMOLITION PLAN
SCALE: 1" = 100'

ELECTRICAL DEMOLITION SHEET NOTES:

- D1** REMOVE BEACON FROM TOP OF EXISTING HANGER AND SALVAGE TO MONO COUNTY IF ADD ALT. #3 IS SELECTED.
- D2** REMOVE RADIO CONTROLLER FROM THE INSIDE OF THE EXISTING HANGAR AND REINSTALL IN NEW AIRFIELD LIGHTING VAULT.
- D3** REMOVE CABLE.



KEYMAP

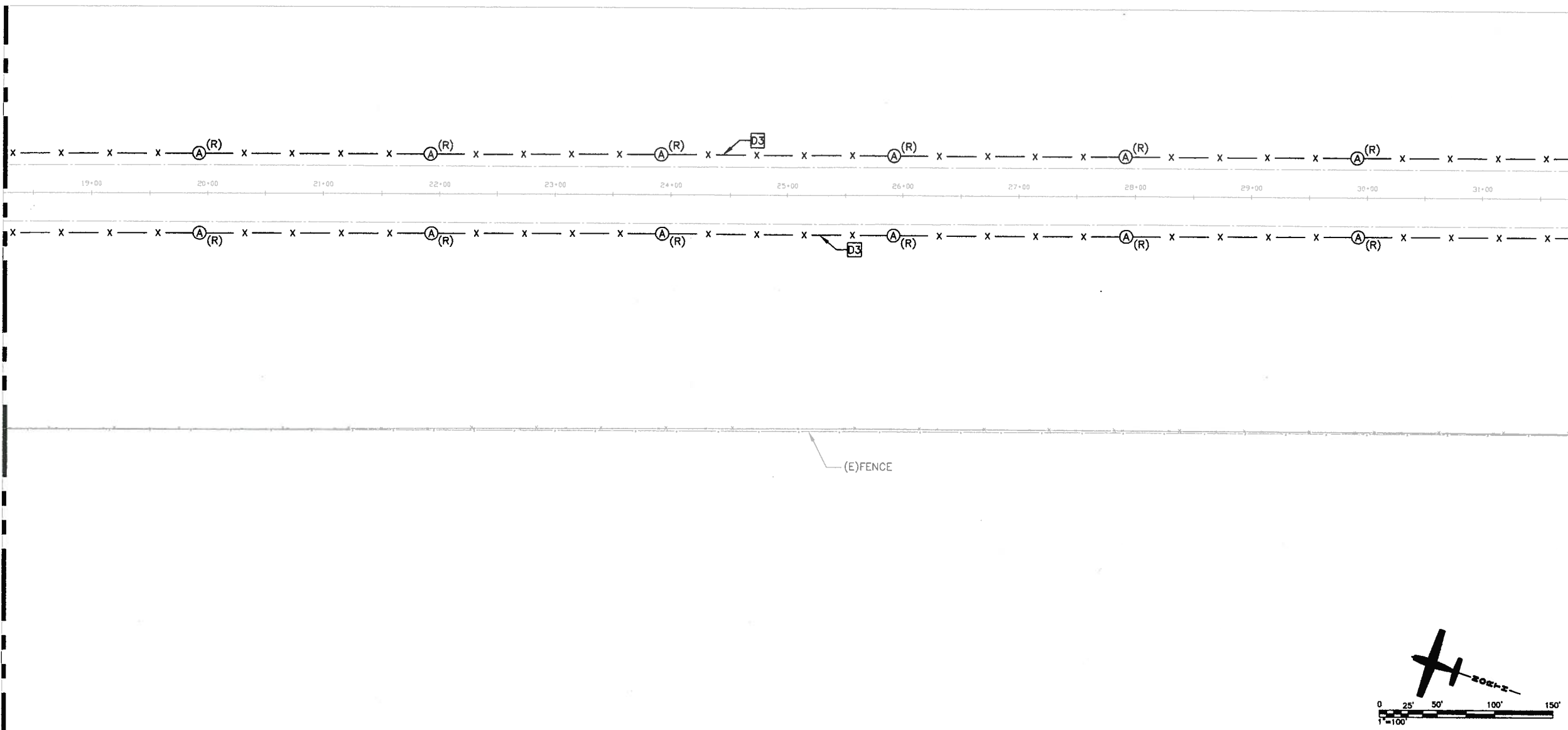
DE
DINTER ENGINEERING Co.
385 GENTRY WAY
SEASIDE, CALIFORNIA 92082-4800
(714) 838-4644
(714) 838-4190
www.dinter.com
J-4107

SCALE AS NOTED		PROJECT NUMBER: 058712110	
VISION BY: TLF	DATE: 03/09	CHECKED BY: TAP	REV. DATE:
DRAWN BY: TLL3		PROJECT NO: ED15182	
DATE: 03/09		EXP. DATE: 6/30/10	
4-28-2010			
LEE VINING AIRPORT RUNWAY RECONSTRUCTION		ELECTRICAL DEMOLITION PLAN	
ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES			
E1.1			
SHEET 24 OF 49			

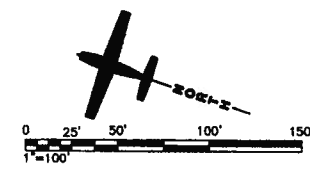
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MATCHLINE SEE SHEET E1.1

MATCHLINE SEE SHEET E1.3

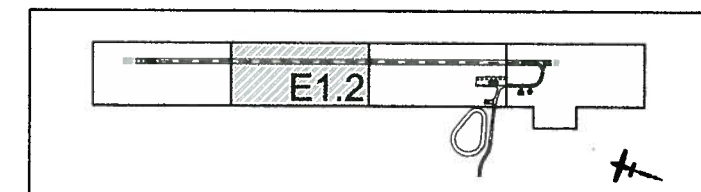


1 ELECTRICAL DEMOLITION PLAN
SCALE: 1" = 100'



ELECTRICAL DEMOLITION SHEET NOTES:

- D1** REMOVE BEACON FROM TOP OF EXISTING HANGER AND SALVAGE TO MONRO COUNTY IF ADD. ALT. #3 IS SELECTED.
- D2** REMOVE RADIO CONTROLLER FROM THE INSIDE OF THE EXISTING HANGER AND REINSTALL IN NEW AIRFIELD LIGHTING VAULT.
- D3** REMOVE CABLE.



KEYMAP

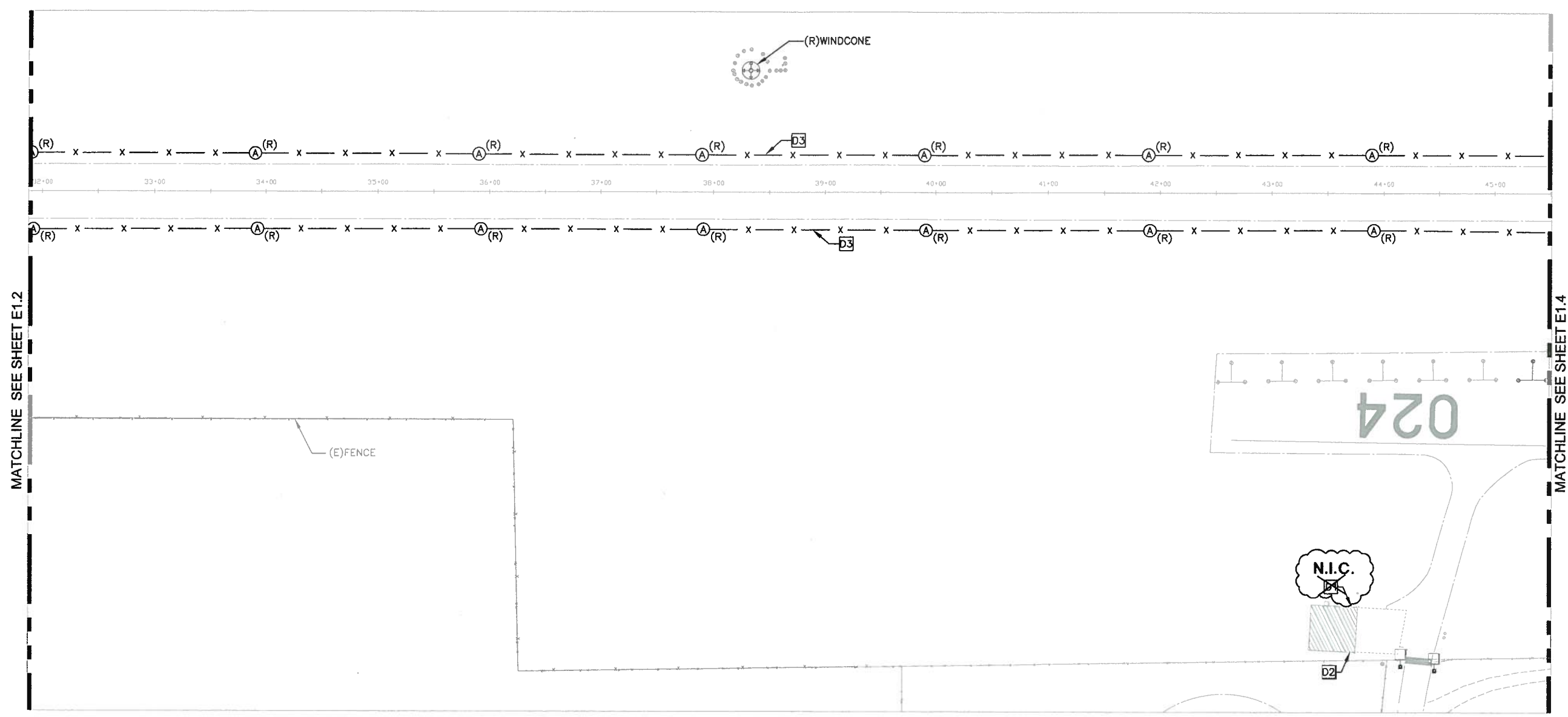
MECHANICAL, ELECTRICAL, AND AIRFIELD CONSULTING ENGINEERS

DE ENGINEERING CO.

306 GENTRY WAY
2500 N. HWY. 101
MESA, ARIZONA 85205
(727) 631-0044
(727) 631-4190
www.dster.com
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<p>SCALE AS NOTED</p> <p>DESIGN BY TLF</p> <p>DATE 03/09</p> <p>PROJECT NUMBER 058712110</p>		<p>4.28.2010</p> <p>NO. EC 5182</p> <p>Exp. 6/30/10</p> <p>ELECTRICAL ENGINEER</p> <p>STATE OF CALIFORNIA</p>	<p>REVISIONS</p>
<p>DRAWN BY TLL</p> <p>CHECKED BY TAP</p>			
<p>LEE VINING AIRPORT</p> <p>RUNWAY RECONSTRUCTION</p>		<p>ELECTRICAL DEMOLITION PLAN</p>	
<p>LEE Pugh, Esq. Court 3000 20th Mesa, Nevada 89001 Phone: 775/833-9333 Fax: 775/833-9333</p>		<p>ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES</p>	
<p>PBS&J</p>		<p>E1.2</p>	
<p>SHEET 25 OF 49</p>			

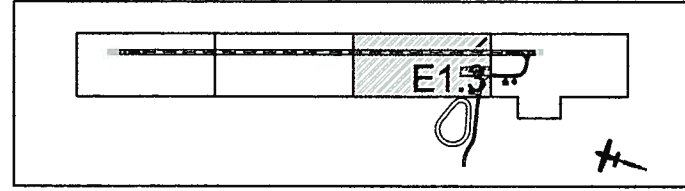
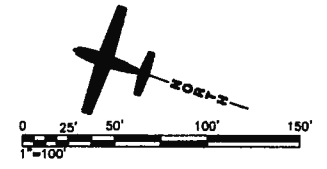
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1 ELECTRICAL DEMOLITION PLAN
SCALE: 1" = 100'

ELECTRICAL DEMOLITION SHEET NOTES:

- D1** REMOVE BEACON FROM TOP OF EXISTING HANGER AND SALVAGE TO MONO COUNTY IF ADD ALT. #3 IS SELECTED.
- D2** REMOVE RADIO CONTROLLER FROM THE INSIDE OF THE EXISTING HANGER AND REINSTALL IN NEW AIRFIELD LIGHTING VAULT.
- D3** REMOVE CABLE.

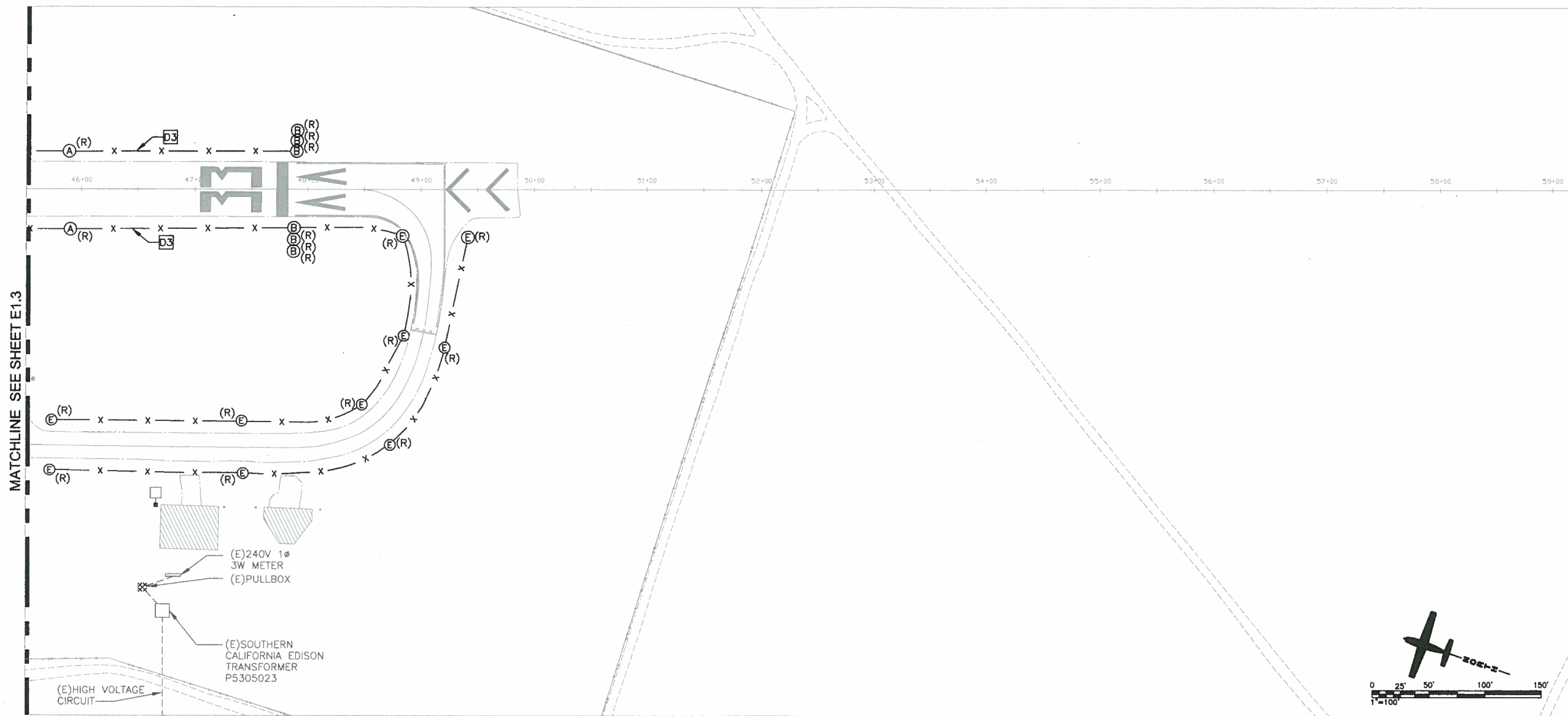


KEYMAP

DE
DINTER ENGINEERING Co.
385 GENTRY WAY
2020, NVADA
88003-4000
(775) 858-4044
(702) 858-4190
www.dinter.com
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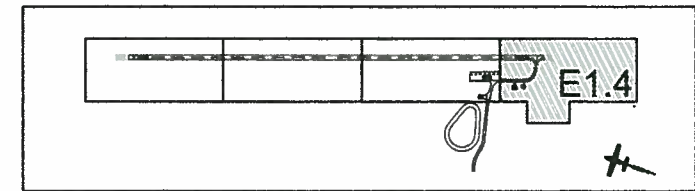
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<p>LEE VINING AIRPORT RUNWAY RECONSTRUCTION</p>		<p>ELECTRICAL DEMOLITION PLAN</p>	
<p>505 Dixie Eng. Court Bunk, Nevada, 89201 Phone: 775-737-9538</p>		<p>ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES</p>	
<p>PBSJ</p>		<p>E1.3</p>	
<p>J-4107</p>		<p>SHEET 26 OF 49</p>	

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Apr 28, 2010 - 2:12pm



MATCHLINE SEE SHEET E1.3

1 ELECTRICAL DEMOLITION PLAN
SCALE: 1" = 100'



KEYMAP

ELECTRICAL DEMOLITION SHEET NOTES

- D1** REMOVE BEACON FROM TOP OF EXISTING HANGER AND SALVAGE TO MONO COUNTY IF ADD. ALT. #3 IS SELECTED.
- D2** REMOVE RADIO CONTROLLER FROM THE INSIDE OF THE EXISTING HANGER AND REINSTALL IN NEW AIRFIELD LIGHTING VAULT.
- D3** REMOVE CABLE.

NO.	DESCRIPTION	DATE	BY	CHECKED	APPD.

AS NOTED
 DESIGN BY: TLF
 DATE: 03/09
 DRAWN BY: TLL3
 CHECKED BY: TLF
 PROJECT NUMBER: 058712110

LEE VINING AIRPORT
RUNWAY RECONSTRUCTION
ELECTRICAL DEMOLITION PLAN

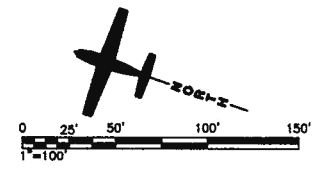
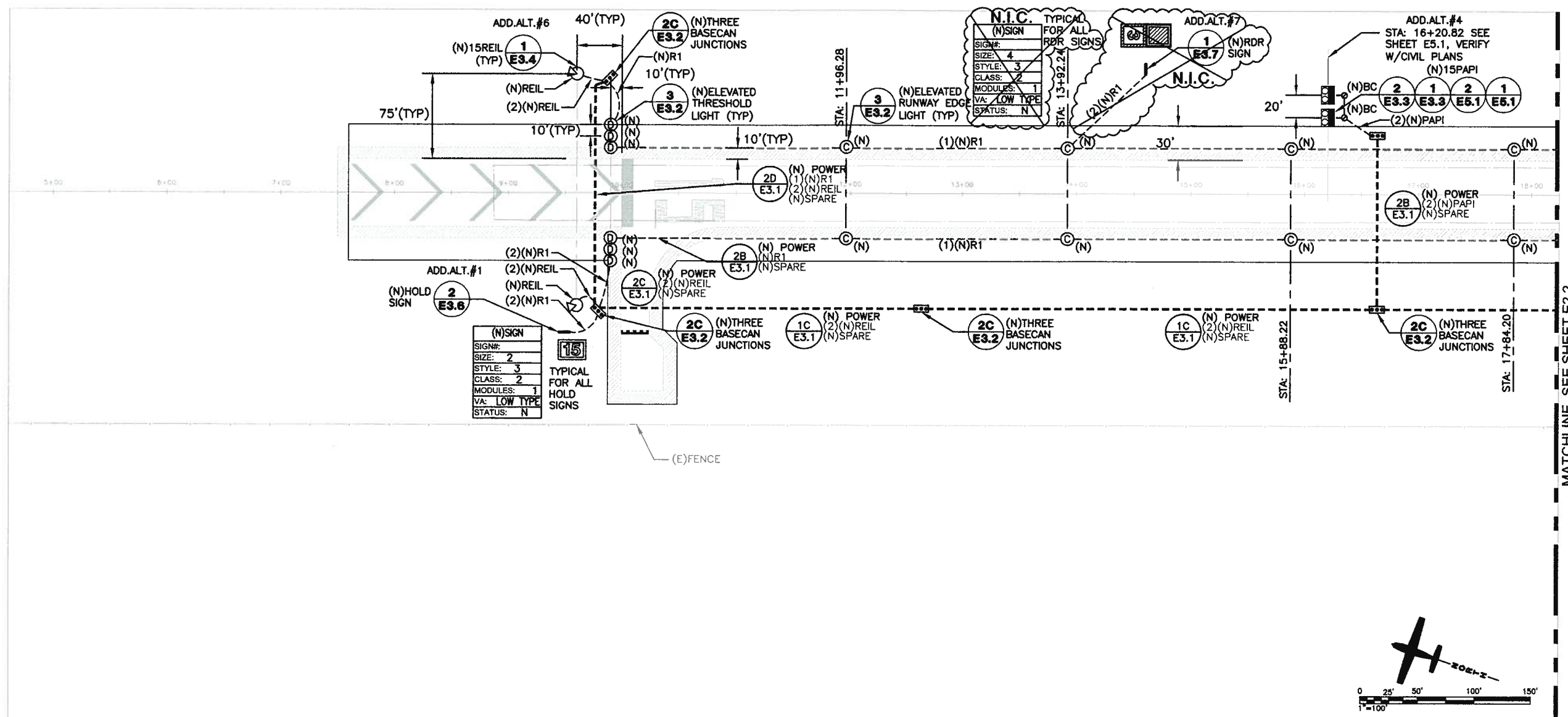
SEE DOUBLE ENGIN COURT
 2000 S. 2000 E.
 TULSA, OKLAHOMA 74105
 PHONE: 918.438.8822
 FAX: 918.438.8822

PBS&J
 ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

DE
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 MECHANICAL
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 AND
 AIRFIELD
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 385 GENTRY WAY
 RENO, NEVADA
 89502-4008
 (775) 828-4044
 (FAX) 828-4190
 www.dinter.com
 J-4107

E1.4

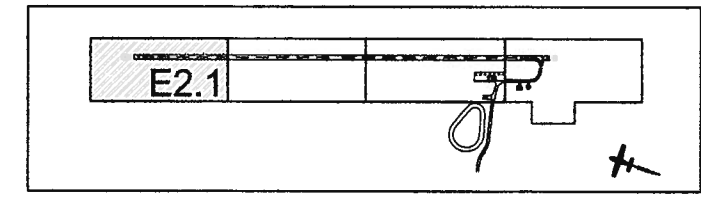
SHEET 27 OF 49



1 NEW ELECTRICAL PLAN
SCALE: 1" = 100'

NEW ELECTRICAL SHEET NOTE:

E1 REMOVE EXISTING RADIO CONTROLLER FROM THE INSIDE OF THE EXISTING HANGAR AND REINSTALL IN NEW AIRFIELD LIGHTING VAULT. SEE E3.8 SERIES FOR CONNECTION DETAILS.



DE
DINTER ENGINEERING
325 GENTRY WAY
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(770) 828-4064
FAX 828-4186
www.dinter.com
J-4107

LEE VINING AIRPORT
RUNWAY RECONSTRUCTION
NEW ELECTRICAL PLAN

ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

PROJECT NUMBER: 058712110

DATE: 4-08-2010

DESIGNED BY: TLL/S
CHECKED BY: TAP
DATE: 03/09

SCALE: AS NOTED

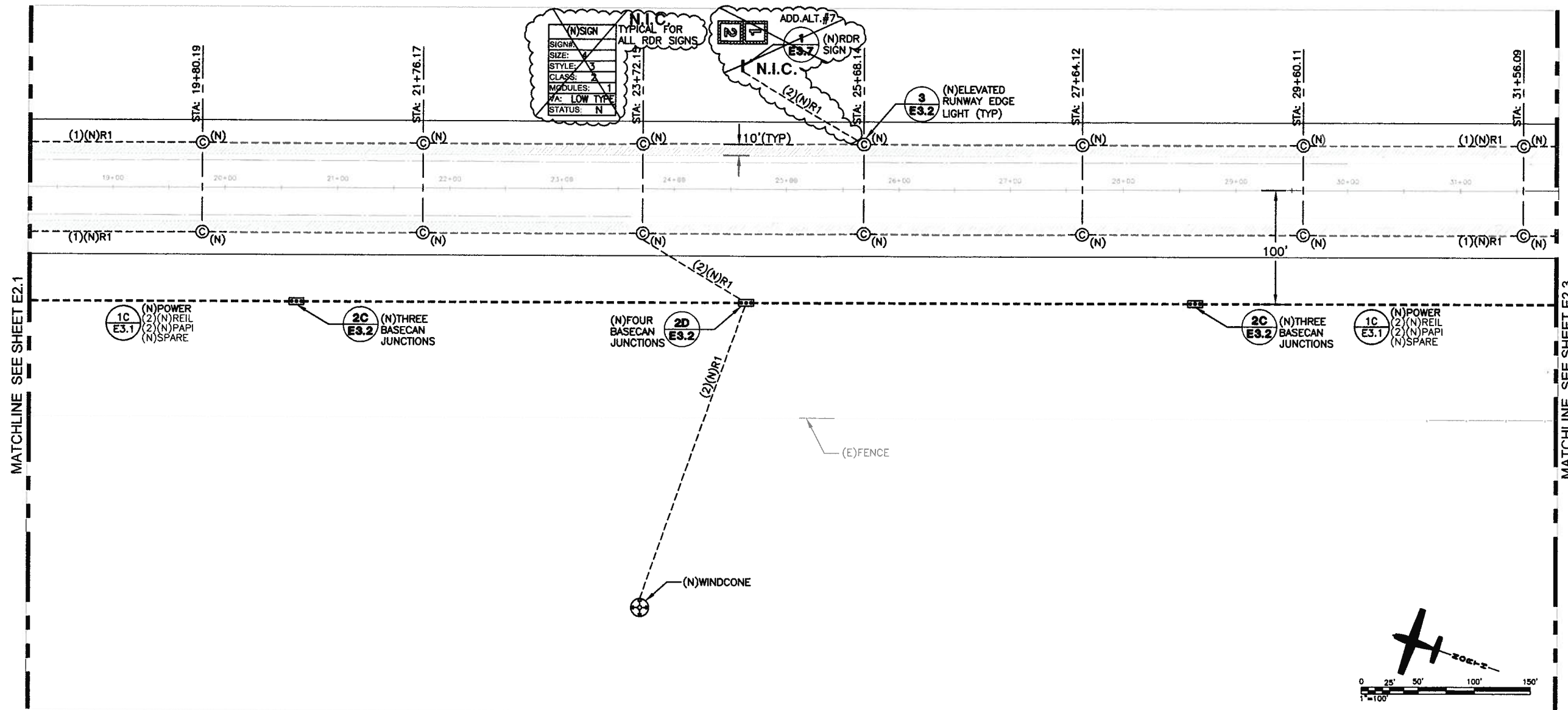
NO. 5182
Exp. 6/30/10
ELECTRICAL
STATE OF CALIFORNIA

REVISIONS

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APPROVED: [Signature]

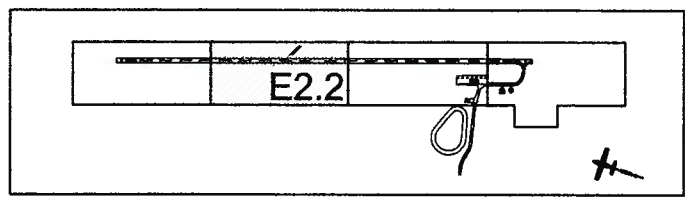
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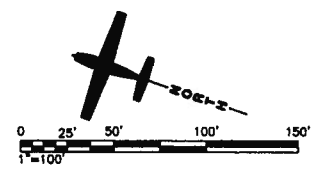


1 NEW ELECTRICAL PLAN
SCALE: 1" = 100'

NEW ELECTRICAL SHEET NOTE:
 E1 REMOVE EXISTING RADIO CONTROLLER FROM THE INSIDE OF THE EXISTING HANGAR AND REINSTALL IN NEW AIRFIELD LIGHTING VAULT. SEE E3.8 SERIES FOR CONNECTION DETAILS.



KEYMAP



NO. 05182	DATE	REV.	DATE	DESCRIPTION
6/30/10				
03/09				
056712110				

LEE VINING AIRPORT
RUNWAY RECONSTRUCTION
NEW ELECTRICAL PLAN

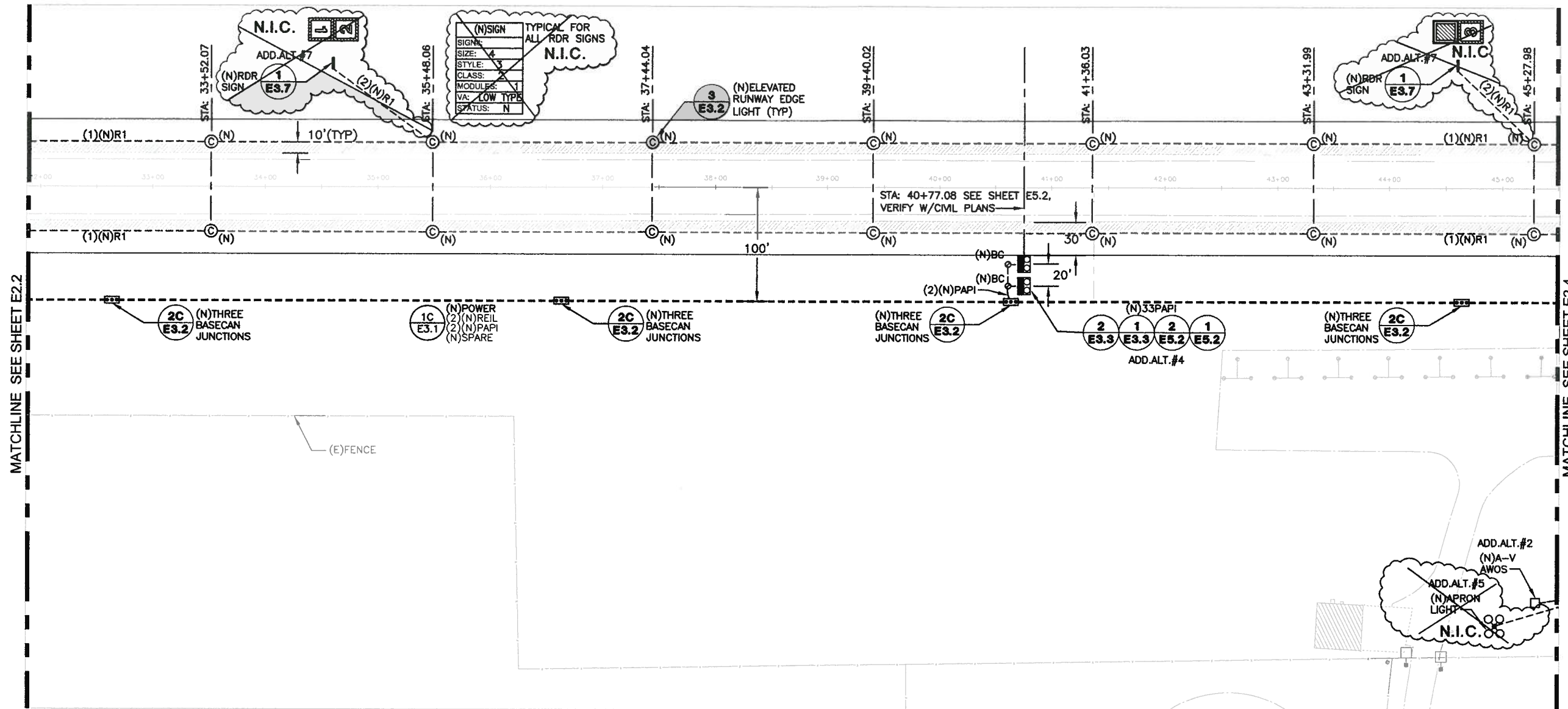


ESS Double Eagle Court
 Reno, NV 89502
 Telephone: 775-822-1422
 Fax: 775-822-1828

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 ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

E2.2
 SHEET 29 OF 49

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Apr 28, 2010 - 2:13pm



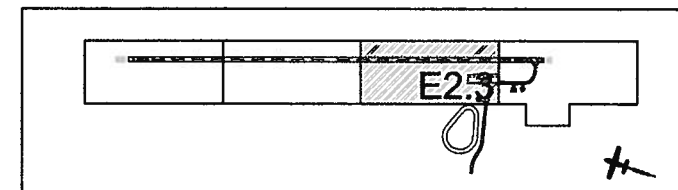
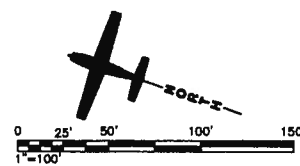
MATCHLINE SEE SHEET E2.2

MATCHLINE SEE SHEET E2.4

1 NEW ELECTRICAL PLAN
SCALE: 1" = 100'

NEW ELECTRICAL SHEET NOTE:

- E1 REMOVE EXISTING RADIO CONTROLLER FROM THE INSIDE OF THE EXISTING HANGAR AND REINSTALL IN NEW AIRFIELD LIGHTING VAULT. SEE E3.8 SERIES FOR CONNECTION DETAILS.



KEYMAP

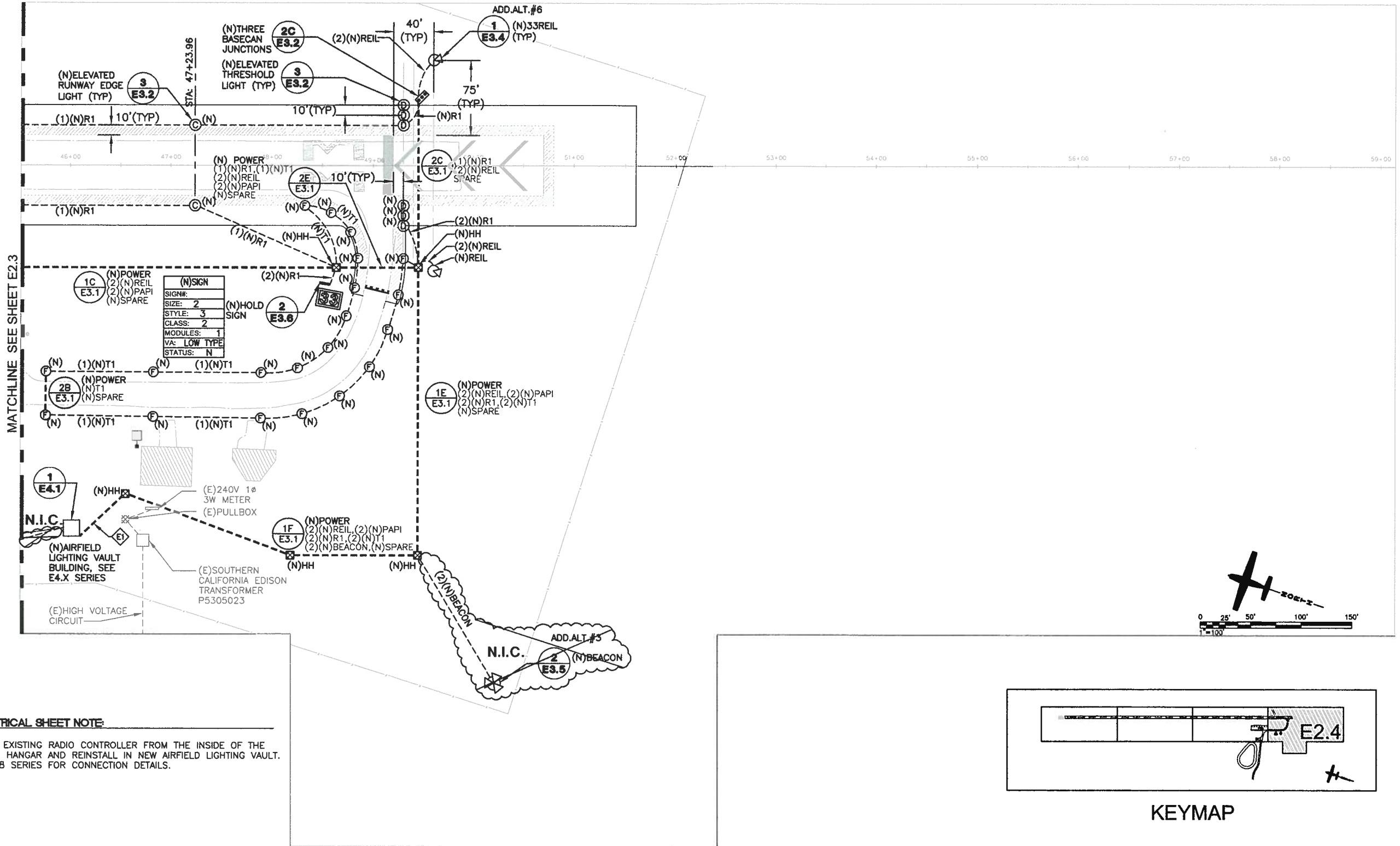
DE
MECHANICAL, ELECTRICAL, AND AIRFIELD CONSULTING ENGINEERS
385 GENTRY WAY
SUITE 2000, MOUNTAIN VIEW, CALIFORNIA 92653
(714) 258-4044
(714) 258-4044
www.d-e.com
J-4107

SCALE	AS NOTED
DESIGN BY	TLF
CHECKED BY	TAF
DATE	03/09
PROJECT NUMBER	058712110
PROJECT NAME	LEE VINING AIRPORT RUNWAY RECONSTRUCTION
PROJECT LOCATION	NEW ELECTRICAL PLAN
DATE	4.28.2010
REVISIONS	
CHECKED	
APPROVED	

LEE VINING AIRPORT
RUNWAY RECONSTRUCTION
NEW ELECTRICAL PLAN

PBSI
ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES
385 GENTRY WAY
SUITE 2000, MOUNTAIN VIEW, CALIFORNIA 92653
(714) 258-4044
(714) 258-4044
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E2.3
SHEET 30 OF 49

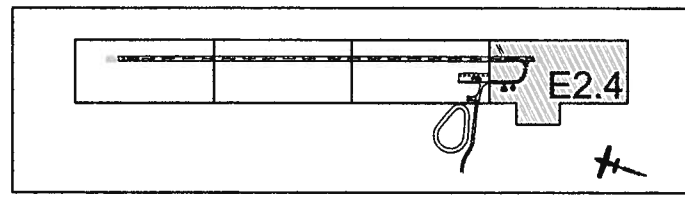
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Apr 28, 2010 - 2:19pm



NEW ELECTRICAL SHEET NOTE:

⬠ REMOVE EXISTING RADIO CONTROLLER FROM THE INSIDE OF THE EXISTING HANGAR AND REINSTALL IN NEW AIRFIELD LIGHTING VAULT. SEE E3.8 SERIES FOR CONNECTION DETAILS.

1 NEW ELECTRICAL PLAN
SCALE: 1" = 50'



KEYMAP

DE
D I N T E R
ENGINEERING
C.

MECHANICAL,
ELECTRICAL,
AND
AIRFIELD
CONSULTING
ENGINEERS

285 CENTRY WAY
SUITE 200, WYANDA
90020-4000
(773) 858-4044
(FAX) 858-1191
www.dinter.com
J-4107

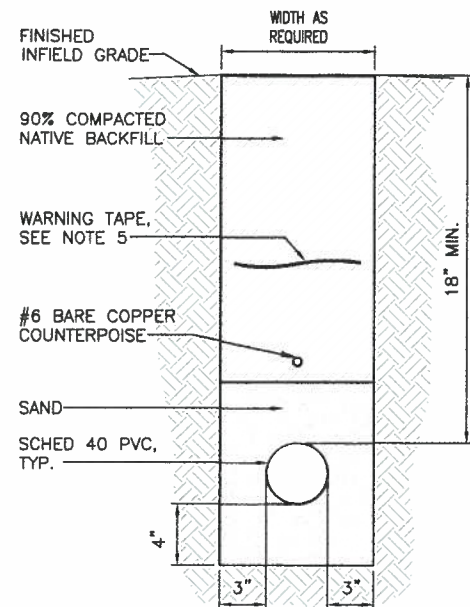
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DATE	4-28-2010	PROJECT NAME	LEE VINING AIRPORT RUNWAY RECONSTRUCTION	PROJECT NUMBER	058712110	PLANNING	DATE	REV	DATE
DESCRIPTION	NEW ELECTRICAL PLAN								
REVISIONS									

LEE VINING AIRPORT
RUNWAY RECONSTRUCTION
NEW ELECTRICAL PLAN

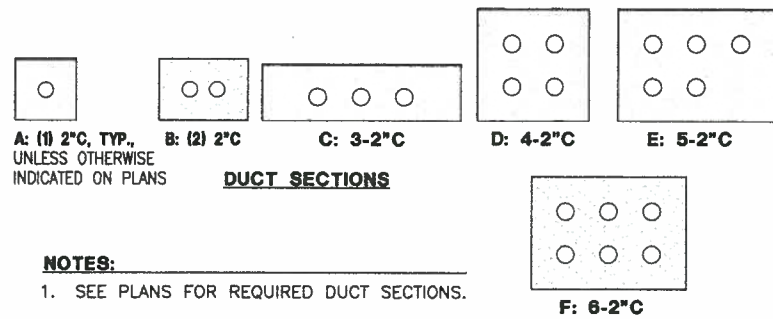
SEE DOUBLE PAGE COURT
SHEET 2000
RAN, NVA, 8/20/02
PAC 773/858-4044

PBSJ
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E2.4
SHEET 31 OF 49



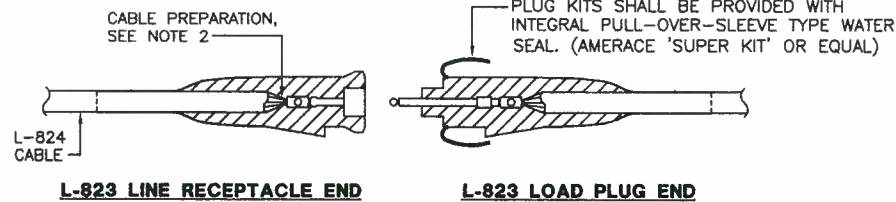
1 TYPICAL DIRECT BURY CONDUIT TRENCH SECTION
NTS



2 TYPICAL ENCASED TRENCH SECTION
NTS

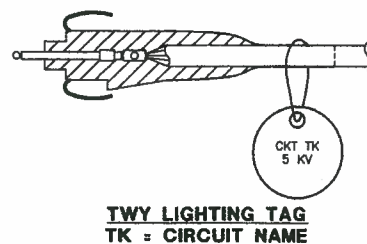
- NOTES:**
- SEE PLANS FOR REQUIRED DUCT SECTIONS.
 - PROVIDE PULL WIRES IN ALL (NEW) UNUSED CONDUITS. PLUG ENDS IN HANDHOLES, MANHOLES AND CANS.
 - INSTALL A #6 BARE COPPER (BC) GROUND CONDUCTOR IN EACH DUCT ASSEMBLY FROM HANDHOLE/MANHOLE-TO-HANDHOLE/MANHOLE AND EXOTHERMICALLY WELD TO GROUND RODS IN EACH HANDHOLE/MANHOLE (FAA AC 150/5340-30.12.6).
 - INSTALL A #6 SOLID BARE COPPER (BC) COUNTERPOISE ABOVE EACH DUCT ASSEMBLY (FAA AC 150/5340-30.12.5).
 - WARNING TAPE REQUIRED WHEN DUCTS ARE INSTALLED IN AREAS NOT BELOW FULL STRENGTH PAVEMENT.

- NOTES:**
- SEE PLANS FOR REQUIRED DUCT SECTIONS.
 - PROVIDE PULL WIRES IN ALL (NEW) UNUSED CONDUITS. PLUG ENDS IN HANDHOLES, MANHOLES AND CANS.
 - WARNING TAPE REQUIRED WHEN DUCTS ARE INSTALLED IN AREAS NOT BELOW FULL STRENGTH PAVEMENT.
 - P-610 CONCRETE ENCASE UNDER FULL STRENGTH PAVEMENT AND AS OTHERWISE INDICATED ON PLANS.
 - INSTALL A #6 BARE COPPER (BC) GROUND CONDUCTOR IN EACH DUCT ASSEMBLY FROM HANDHOLE/MANHOLE-TO-HANDHOLE/MANHOLE AND EXOTHERMICALLY WELD TO GROUND RODS IN EACH HANDHOLE/MANHOLE (FAA AC 150/5340-30.12.6).
 - INSTALL A #6 SOLID BARE COPPER (BC) COUNTERPOISE ABOVE EACH DUCT ASSEMBLY (FAA AC 150/5340-30.12.5).



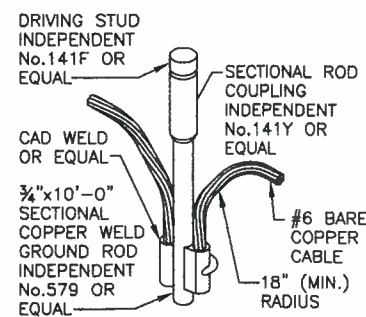
3 TYPICAL 5kV CABLE SPLICE
(FOR SPLICES INSIDE CANS, JUNCTION BOXES AND HANDHOLES)
NTS

- NOTES:**
- PROVIDE MALE AND FEMALE L-823 CONNECTORS AS REQUIRED ON EACH CONDUCTOR IN EACH BASE, HANDHOLE OR MANHOLE TO ALLOW ISOLATION OF HOMERUN CIRCUIT.
 - ALL CABLE ENDS SHALL BE PREPARED WITH THE USE OF A TAPERING TOOL SPECIFICALLY DESIGNED FOR USE WITH L-824 CABLES.
 - PLUG AND RECEPTACLE END FITTINGS SHALL BE CRIMPED ONTO THE CONDUCTOR BY USE OF AN AIRPORT PERSONNEL ACCEPTED HYDRAULIC TYPE CRIMPING TOOL PER SPEC. SECTION L-108.
 - AT THE POINT OF CONNECTION WITH THE EXISTING FIELD CIRCUITS, INSTALL NEW L-823 PLUGS ON BOTH THE NEW AND EXISTING CABLES. VERIFY INSULATION TYPES OF BOTH NEW AND EXISTING CABLES AND COORDINATE WITH TERMINATION KITS TO ASSURE PROPER AND WATERPROOF FIT.
 - THERE SHALL BE NO SPLICES BETWEEN LIGHTS. SPLICES ALLOWED IN BASES OR MANHOLES ONLY.

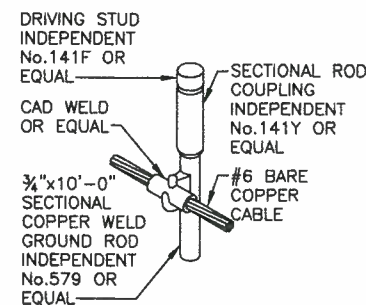


4 CABLE TAGS AND FIXTURE MARKERS
NTS

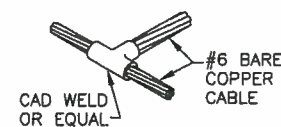
- NOTE:**
- ALL LIGHTING CABLES ENTERING OR LEAVING OR PASSING THROUGH A CABLE MANHOLE, HANDHOLE, PULLBOX, OR LIGHTING FIXTURE BASE SHALL BE IDENTIFIED ON EACH SIDE OF EACH L-823 CONNECTOR KIT WITH AN INDIVIDUAL IDENTIFICATION TAG INDICATING EACH LIGHTING CIRCUIT.
 - TAGS SHALL BE NON-FERROUS METAL OF TYPE AND SIZE AS SPECIFIED UNDER ITEM L-109, CONNECT TO CABLE WITH PLASTIC CABLE TIE.
 - IN NO CASE SHALL A LIGHTING CABLE BE PULLED "THROUGH" A HANDHOLE, MANHOLE, JUNCTION BOX, OR LIGHT BASE. EACH CABLE SHALL BE SPliced IN EACH MANHOLE, HANDHOLE, JUNCTION BOX, AND LIGHT BASE WITH L-823 CONNECTOR KITS AND HEAT-SHRINKABLE SHEATHS AND COLOR CODING.
 - ALL 480V POWER CABLES OR MULTI-PAIR SIGNAL CABLES SHALL BE IDENTIFIED WITH INDIVIDUAL IDENTIFICATION TAGS ONE TIME AS THEY PASS THRU ANY HANDHOLE OR MANHOLE AND ON BOTH SIDES OF THE SPLICES.



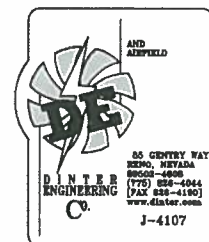
5 COUNTERPOISE SYSTEM GROUND ROD DETAIL
NTS



6 GROUND ROD DETAIL
NTS



7 GROUNDING DETAIL
NTS



REVISIONS

NO.	DESCRIPTION	DATE	BY	CHECKED
1				
2				
3				
4				
5				

DESIGN BY: DATE: PROJECT NUMBER: 056712110

SCALE: PROJECT NUMBER: 056712110

4.28.2010

REG. NO. 5182
Exp. 6/30/10
ELECTRICAL
STATE OF CALIFORNIA

TYPICAL ELECTRICAL INSTALLATION DETAILS

ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

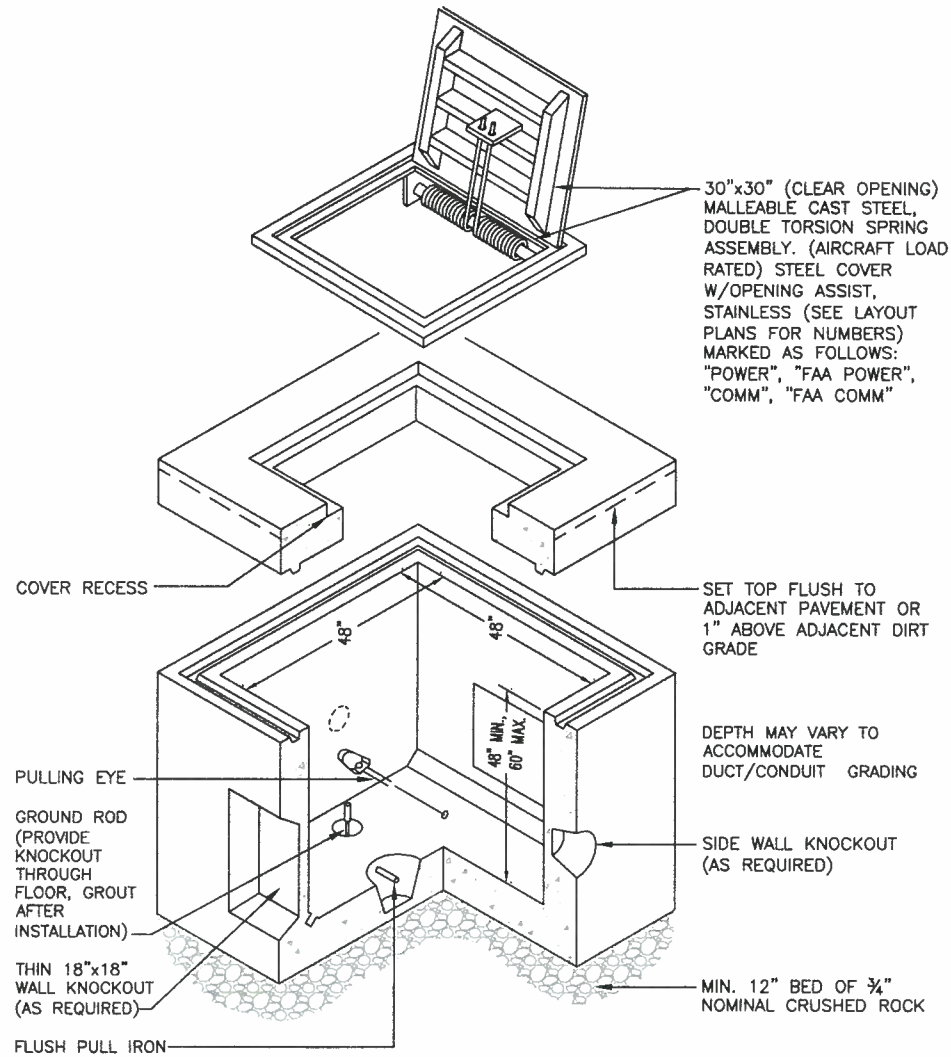
PBS

85 Gentry Way
Reno, Nevada 89501-4008
(775) 858-4044
Fax 858-4180
www.dinter.com

J-4107

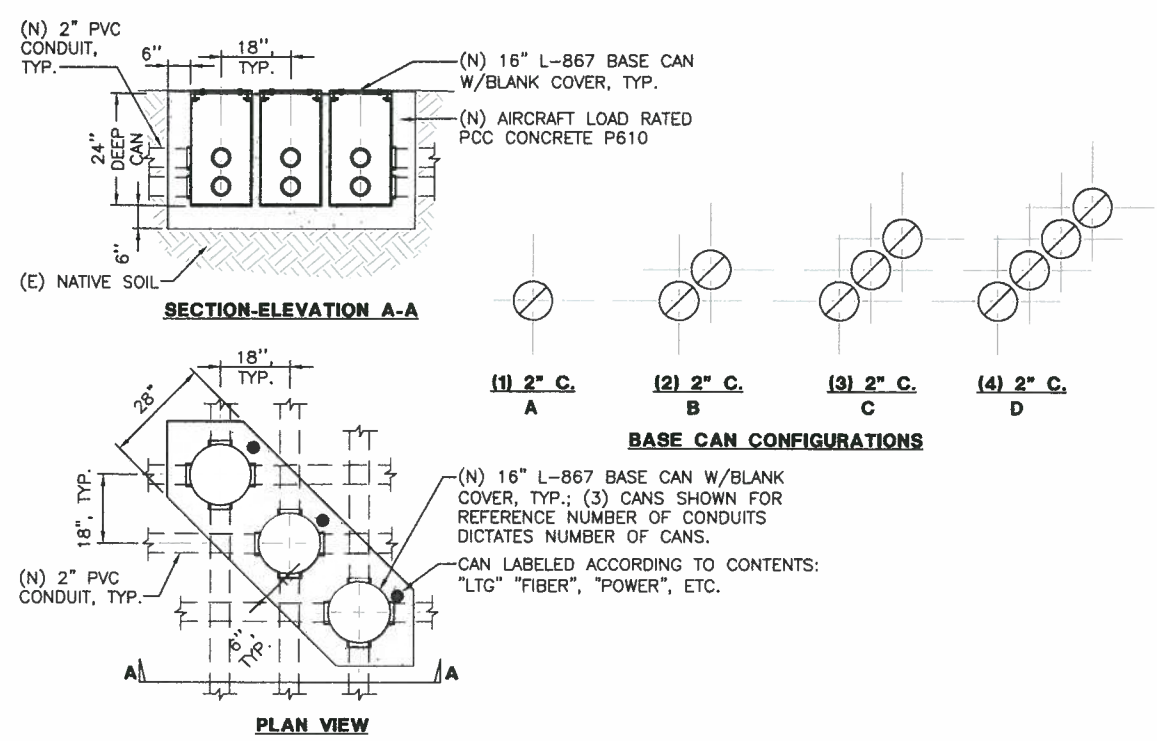
E3.1

SHEET 32 OF 49

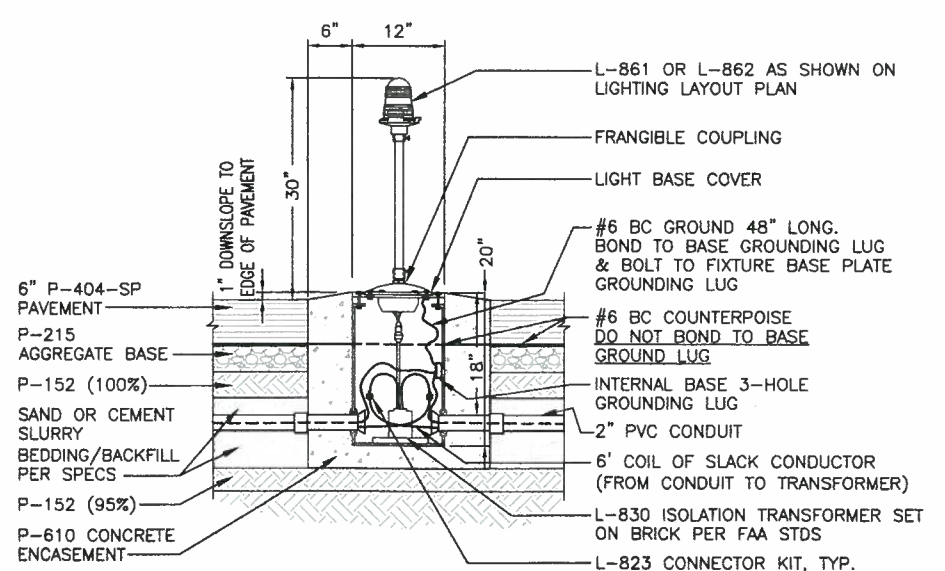


1 TYPE I HANDHOLE DETAIL
NTS (AIRCRAFT LOAD RATED, SEE SPEC.)

- NOTES:**
1. ALL STEEL, OTHER THAN REBAR, TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.
 2. PROVIDE ALL MANHOLES & HANDHOLES WITH CABLE RACKS & PULLING EYES PER SPECS.
 3. PROVIDE CABLE ROUTING PLAQUE AT EACH HANDHOLE, SEE DETAIL X/E3.X.
 4. INSTALL HANDHOLES PARALLEL TO ADJACENT R/W OR T/W CENTERLINE.
 5. PROVIDE GROUND ROD FOR EACH HANDHOLE PER SPECS.
 6. GROUT ALL CONDUIT PENETRATIONS.
 7. PROVIDE MFG. DWGS. AND STRUCTURAL CALCS. FOR ALL CONCRETE ELEMENTS OF HANDHOLES AND FABRICATED TRAFFIC LIDS.
 8. DO NOT CONNECT COUNTERPOISE TO GROUNDING SYSTEM. ROUTE AROUND HANDHOLES.



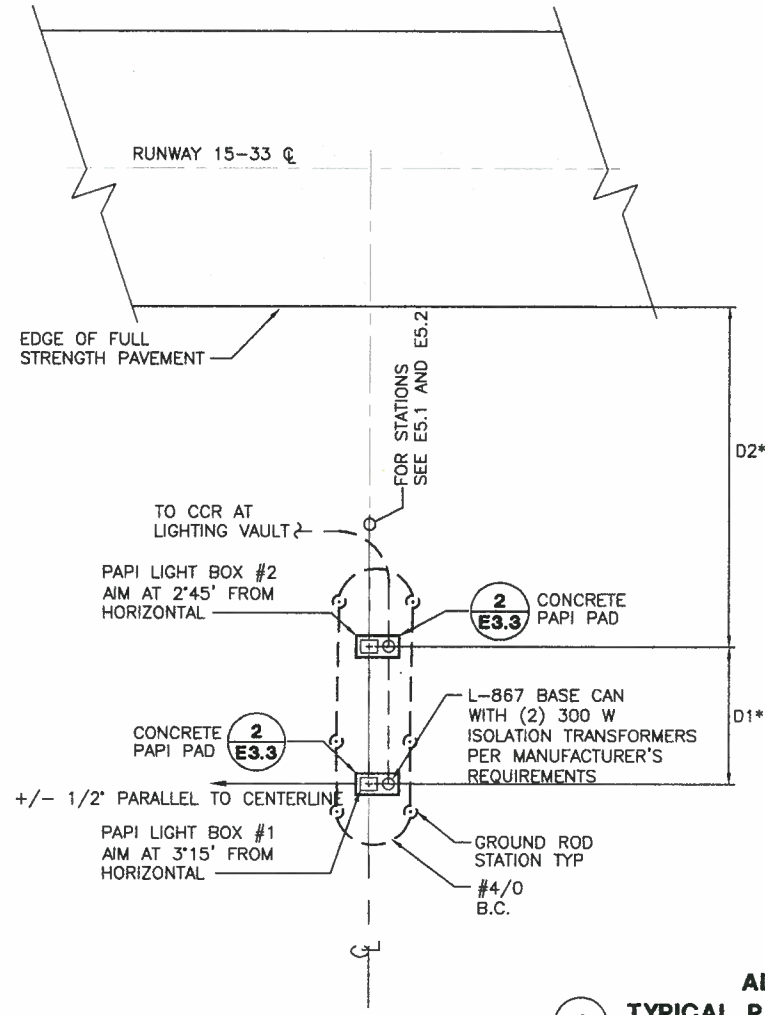
2 BASE CAN JUNCTION
NTS



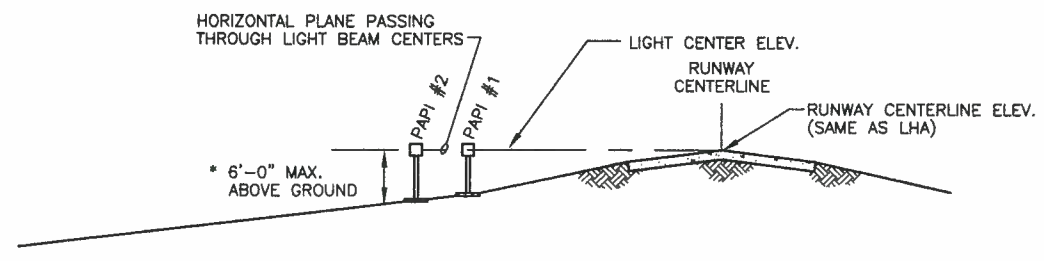
3 ELEVATED RUNWAY EDGE LIGHT DETAIL
NTS

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Apr 28, 2010 - 2:13pm

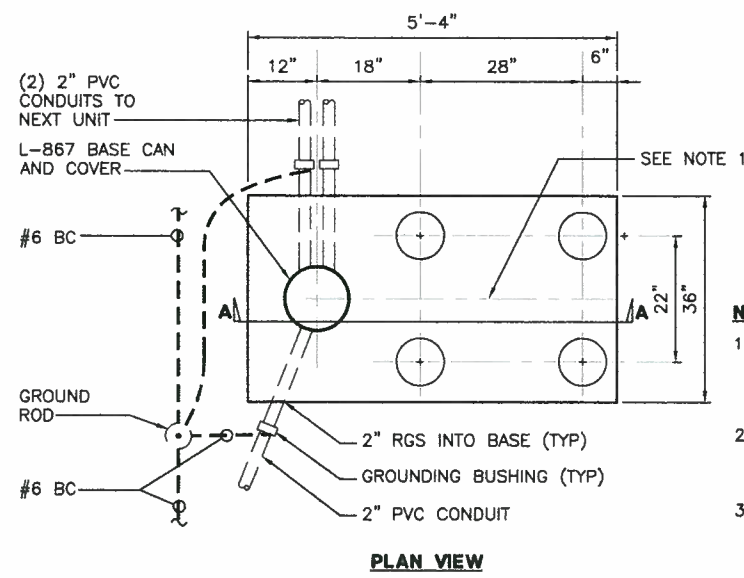
NO. 058712110	DATE	APPROVED
PROJECT NUMBER	REVISIONS	CHECKED
05/28/2010		
AS NOTED		
DESIGN BY TLF		
CHECKED BY TLF		
DATE 03/09		
SCALE		
LEE VINING AIRPORT		
RUNWAY RECONSTRUCTION		
TYPICAL ELECTRICAL INSTALLATION DETAILS		
ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES		
 285 GENTLEY WAY BEND, NEVADA 89002-4005 (775) 858-4044 FAX 858-4180 www.alster.com		
J-4107		
E3.2		
SHEET 33 OF 49		



RUNWAY 15-33 CRITERIA SCHEDULE											
R/W STATION	D1	D2	LIGHT CENTER/R/W ϕ ELEVATION (FT)	CONCRETE BASE ELEVATION (FT)		AIMING ANGLE		EFFECTIVE VISUAL THRESHOLD CROSSING HEIGHT (TCH)	THRESHOLD R/W ϕ ELEVATION (FT)	GLIDE SLOPE ANGLE	
				LHA #1	LHA #2	LHA #1	LHA #2				
15	16+20.82	20'-0"	30'-0"	6773.1	VARIES*	VARIES*	2'45'	3'15'	40'-0" GROUP 1	6765.6	3.0'
33	40+77.08	20'-0"	30'-0"	6798.0	VARIES*	VARIES*	2'45'	3'15'	40'-0" GROUP 1	6802.2	3.0'

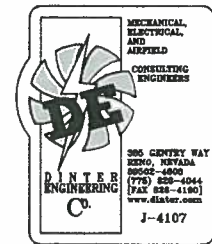
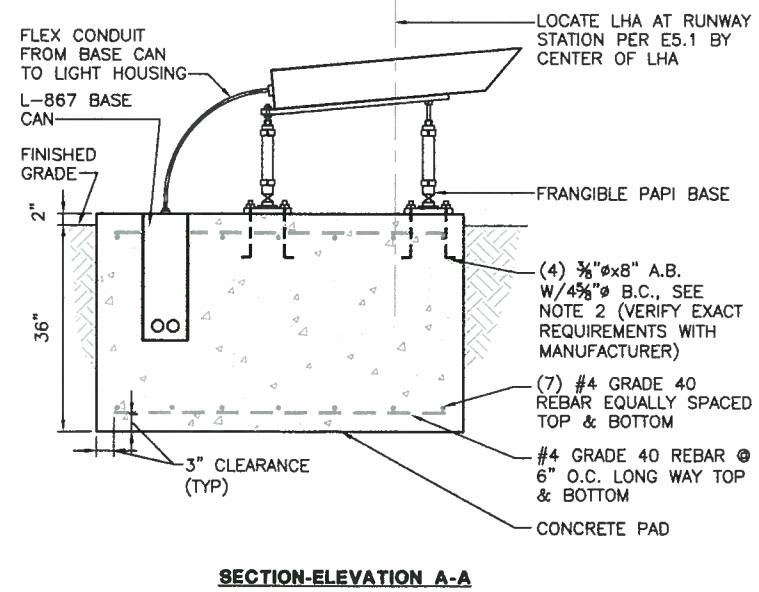


1 ADD. ALT. #4
TYPICAL PAPI INSTALLATION DETAIL
NTS



- NOTES:**
1. FINISH TOP OF CONCRETE BASE WITH 1/4" FT SLOPE, BOTH DIRECTIONS FROM LONGITUDINAL AXES.
 2. COORDINATE BOLT PATTERN WITH MANUFACTURER.
 3. COAT FLANGE SURFACE RESTING ON CONCRETE W/ ASPHALTIC COMPOUND FOR CORROSION PROTECTION.

2 ADD. ALT. #4
PAPI LIGHT BOX CONCRETE BASE
NTS



LEE VINING AIRPORT
RUNWAY RECONSTRUCTION
TYPICAL ELECTRICAL INSTALLATION DETAILS

DESIGNED BY: TLF
DATE: 03/09
CHECKED BY: TAP
SCALE: AS NOTED

PROJECT NUMBER: 058712110

DESIGNED BY: [Signature]
DATE: 4-28-2010
PROJECT NUMBER: 058712110

MECHANICAL, ELECTRICAL, AND AIRFIELD CONSULTING ENGINEERS

PBS

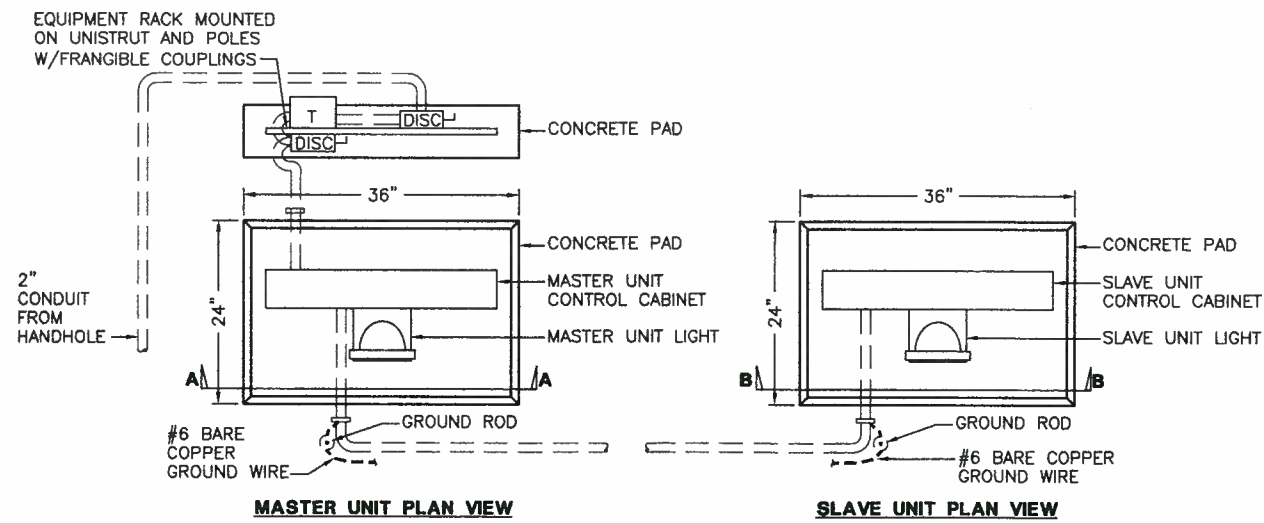
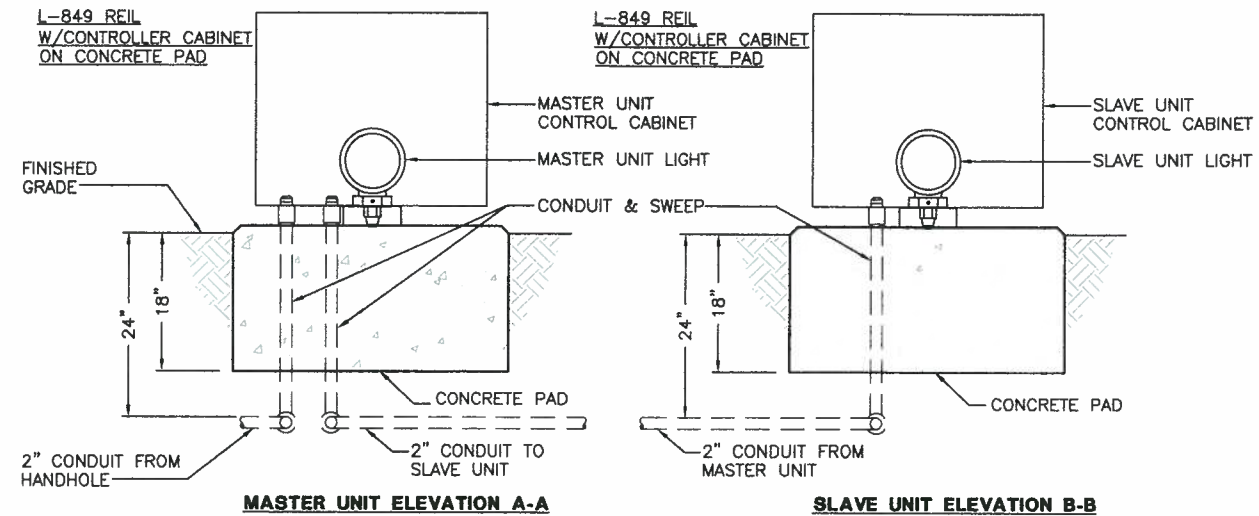
ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

E3.3

SHEET 34 OF 49

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Apr 28, 2010 - 2:13pm

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Apr 28, 2010 - 2:13pm



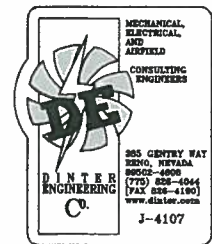
1 ADD. ALT. #6
TYPICAL REIL INSTALLATION DETAIL
NTS

SCALE	AS NOTED
DESIGN BY	DLF
DATE	03/09
CHECKED BY	JAP
DATE	03/09
PROJECT NUMBER	058712110
REVISIONS	
DESCRIPTION	
CHECKED	
APPD	



4-28-2010

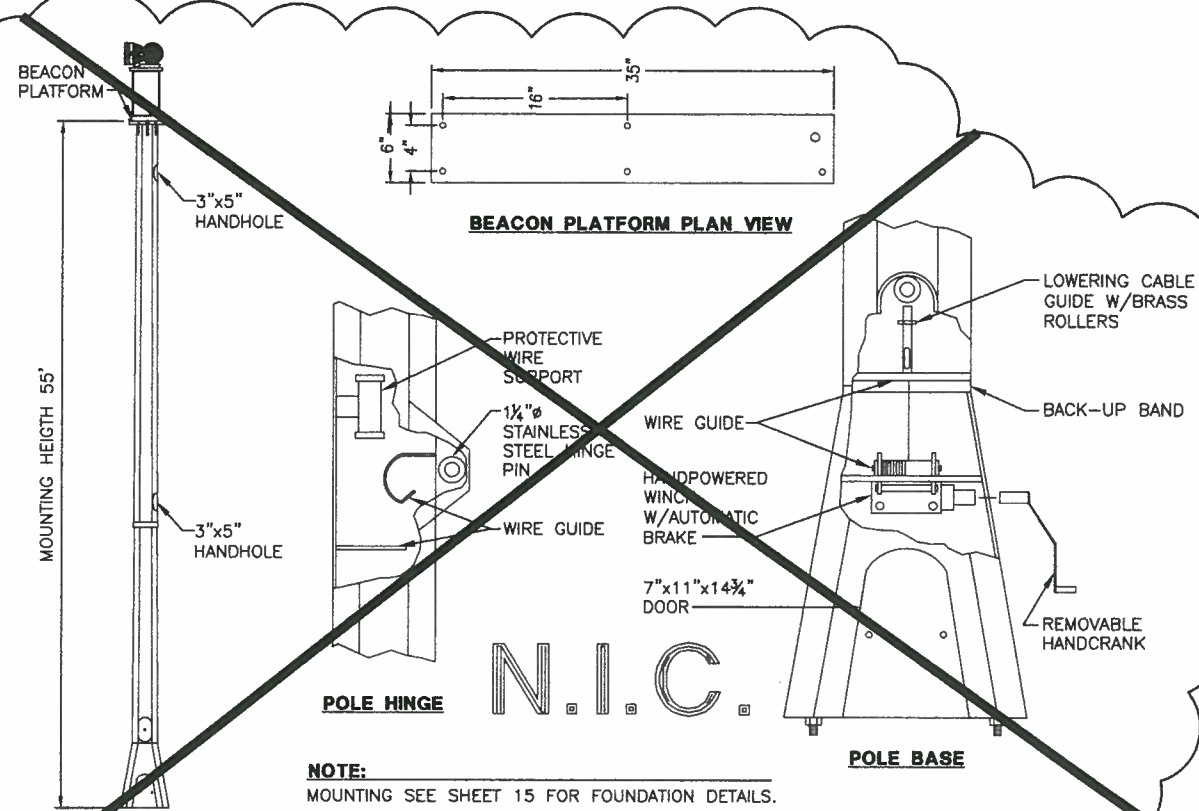
LEE VINING AIRPORT
RUNWAY RECONSTRUCTION
TYPICAL ELECTRICAL INSTALLATION DETAILS



ESS Double Eagle Court
Suite 2000
Las Vegas, NV 89121
Telephone: 775-838-4044
Fax: 775-838-4190

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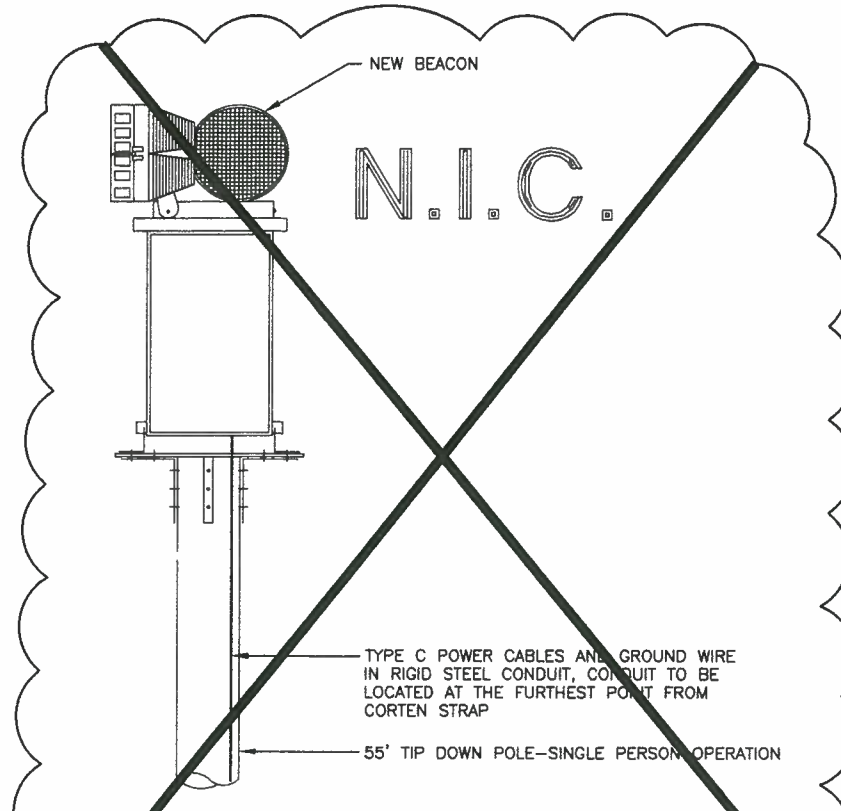
E3.4
SHEET 35 OF 49



NOTE:
MOUNTING SEE SHEET 15 FOR FOUNDATION DETAILS.

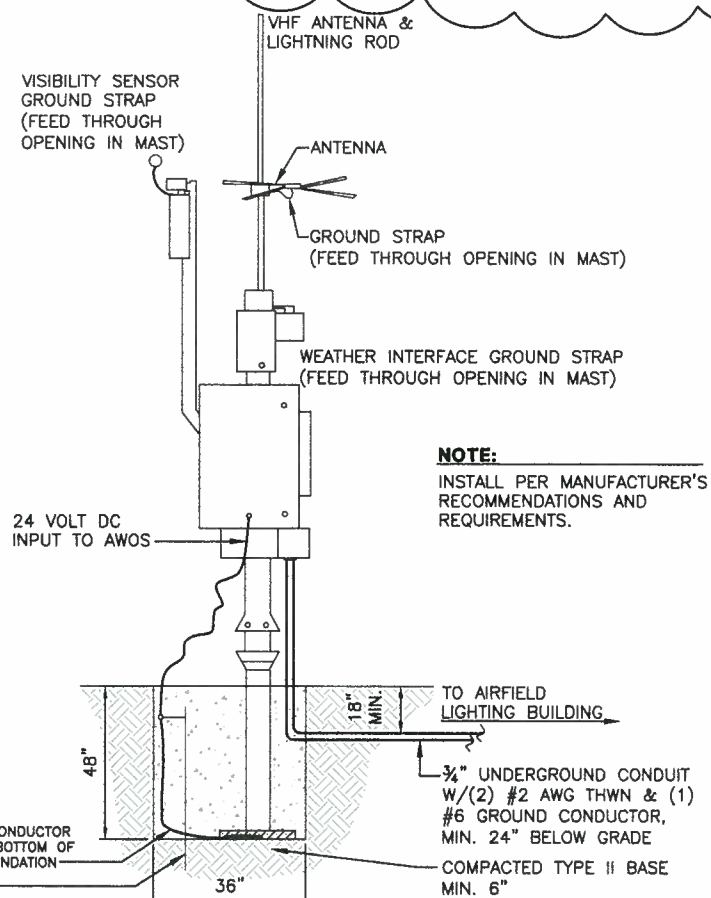
ADD. ALT. #3

1 55' TIPDOWN POLE DETAIL
NTS



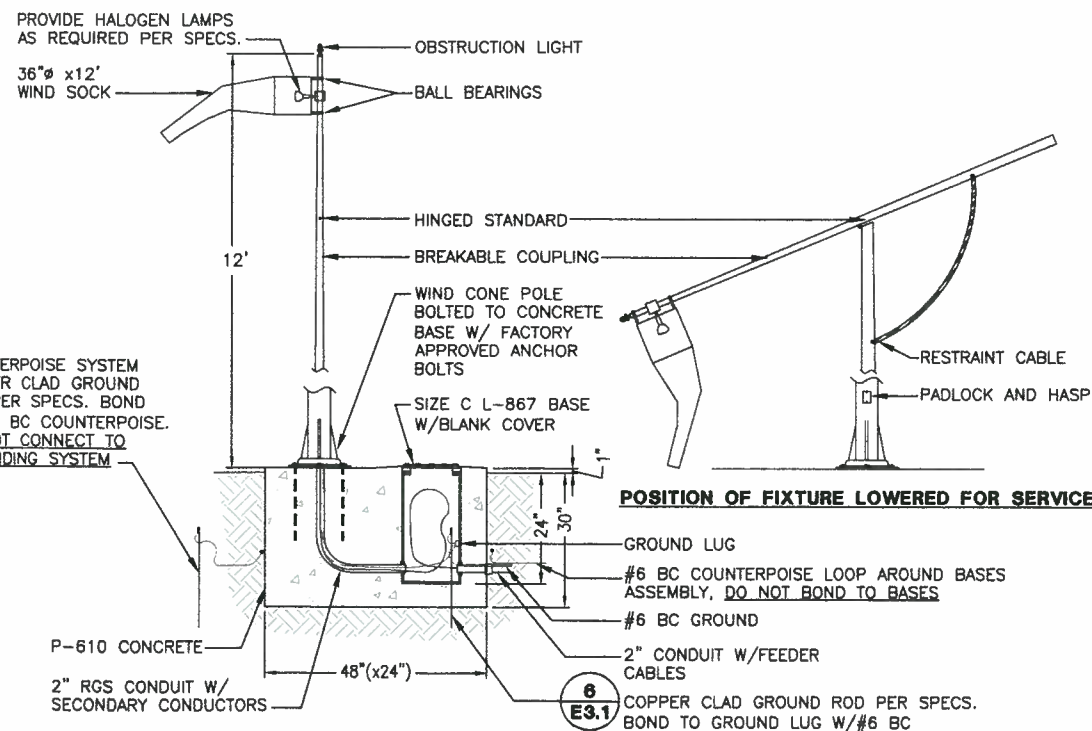
ADD. ALT. #3

2 NEW ROTATING BEACON DETAIL
NTS



ADD. ALT. #2

3 A-V AWOS DETAIL
NTS



POSITION OF FIXTURE LOWERED FOR SERVICE

4 L-807 WIND CONE INSTALLATION DETAIL
NTS

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Apr 28, 2010 - 2:13pm

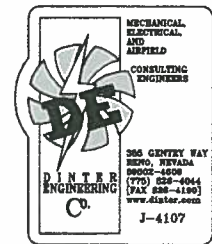
SCALE	AS NOTED	DESIGN BY	TJL	DATE	03/09	PROJECT NUMBER	058712110
DESIGNED BY	TJL	CHECKED BY	TJL	DATE	03/09	PROJECT NUMBER	058712110
DATE	03/09	PROJECT NUMBER	058712110	CHECKED		APPD.	

LEE VINING AIRPORT
RUNWAY RECONSTRUCTION
TYPICAL ELECTRICAL INSTALLATION DETAILS

531 Double Eagle Court
Suite 2000
Las Vegas, NV 89162
Telephone: 775-629-4422
Fax: 775-629-4425

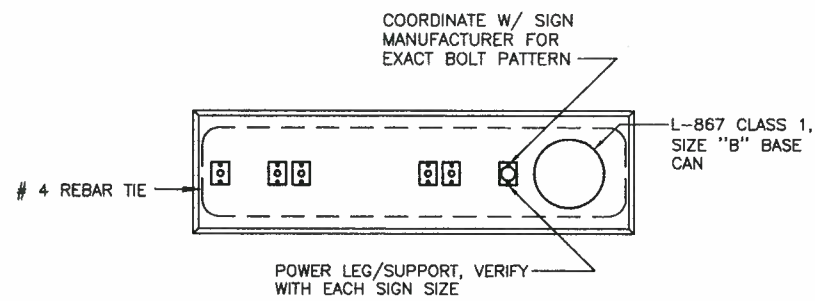
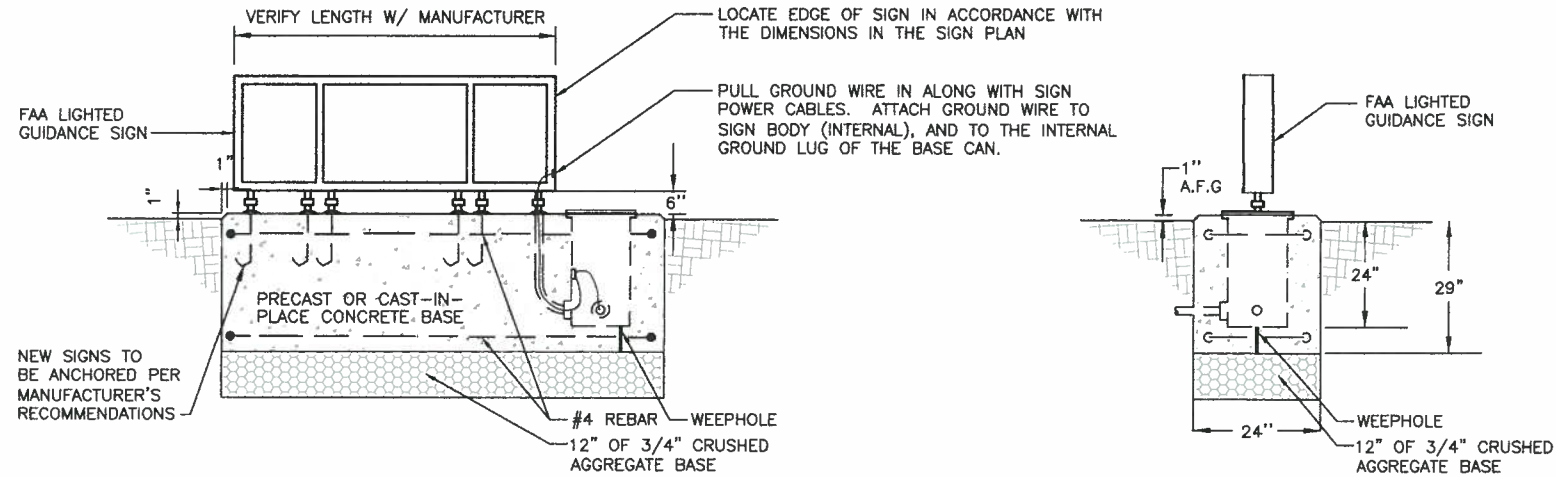
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E3.5
SHEET 36 OF 49



BASE DIMENSION SCHEDULE				
SIGN SIZE	BASE DIMENSIONS			
	ONE MODULE	TWO MODULE	THREE MODULE	FOUR MODULE
2	154" L x 120" W	191" L x 120" W	227" L x 120" W	263" L x 120" W
VERIFY SIGN FOOTING AND CONCRETE BASE SIZE WITH SIGN MANUFACTURER				

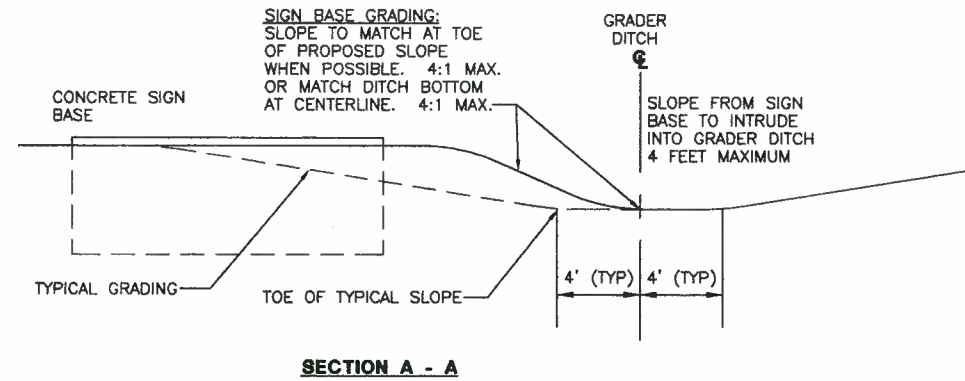
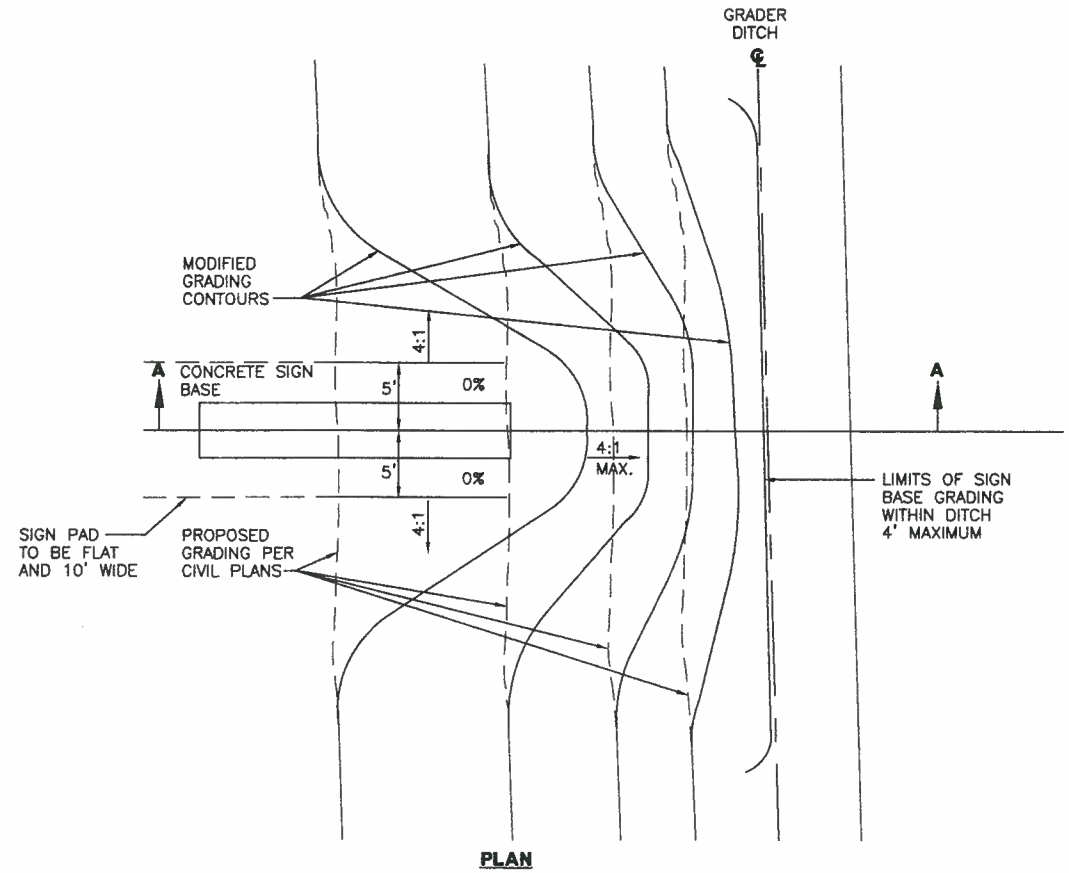
NOTE: SIGN BASE TO BE SIZED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.



1 GUIDANCE SIGN INSTALLATION DETAIL
SCALE: NTS

SIGN INSTALLATION NOTES:

1. VERIFY ALL DIMENSIONS OF SIGN FACES, SIGN PEDESTALS, AND SIGN FACE SPACING WITH MANUFACTURER BEFORE ORDERING AND INSTALLATION.
2. PROVIDE NEW ISOLATION TRANSFORMERS WITH NEW SIGNS. SIZE PER MANUFACTURER'S RECOMMENDATIONS.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.



2 GUIDANCE SIGN - GRADING DETAIL
SCALE: NTS

NO.	DESCRIPTION	DATE	CHECKED	APPROVED

LEE VINING AIRPORT
RUNWAY RECONSTRUCTION
TYPICAL ELECTRICAL INSTALLATION DETAILS

555 Double Eagle Court
Bakersfield, CA 93311
Phone: 805-775-8221
Fax: 805-775-8222

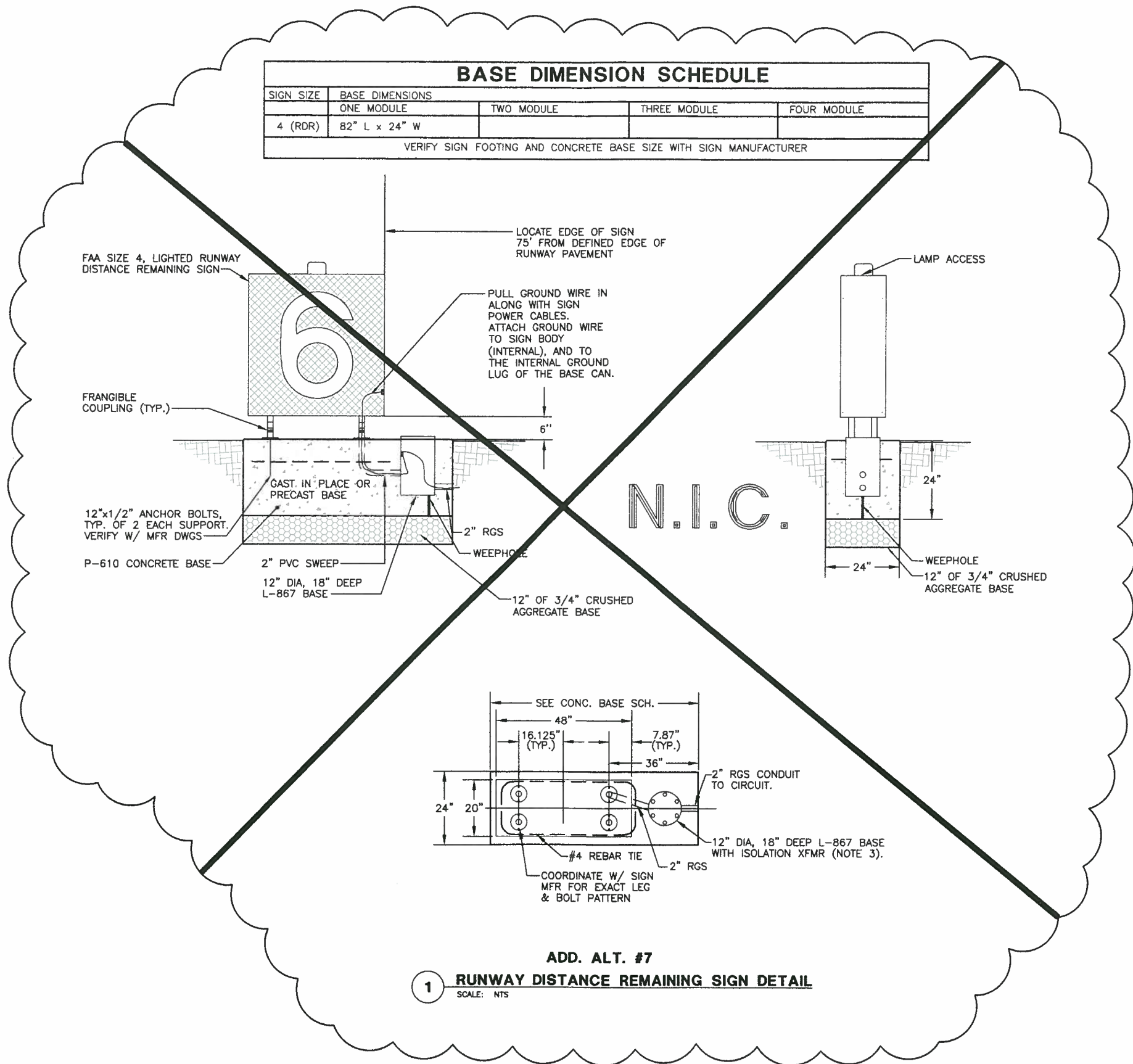
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885 GENTRY WAY
SUITE 200, YUBA CITY, CA 95901
(775) 826-4044
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J-4107

E3.6
SHEET 37 OF 49

D:\141074\107-E301.dwg
Apr 28, 2010 - 2:13pm



1 ADD. ALT. #7
RUNWAY DISTANCE REMAINING SIGN DETAIL
SCALE: NTS

NO.	DESCRIPTION	DATE	BY	CHECKED	APPROVED

SCALE AS NOTED
DESIGN BY TLF
DATE 03/09
PROJECT NUMBER 058712110

LEE VINING AIRPORT
RUNWAY RECONSTRUCTION
TYPICAL ELECTRICAL INSTALLATION DETAILS

688 Double Eagle Court
Suite 2000
Fremont, Nevada 89424
Phone: 775-852-7422
Fax: 775-852-9228

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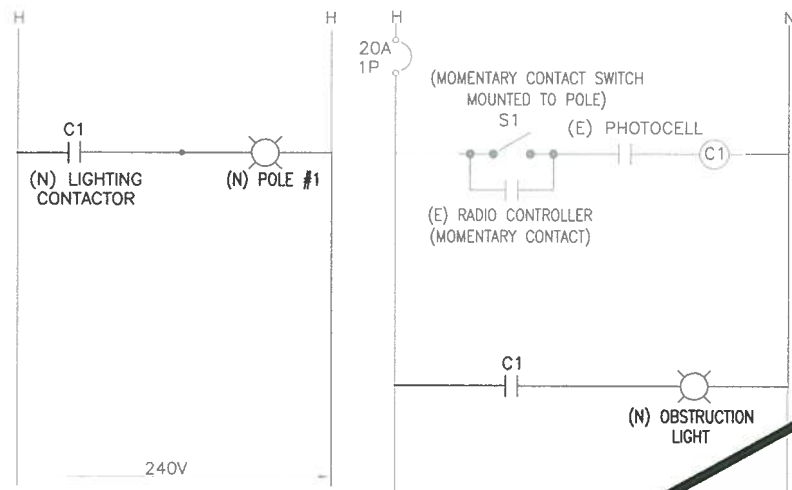
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AND
AIRFIELD
CONSULTING
ENGINEERS

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89455-4808
(775) 852-4844
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CORP.

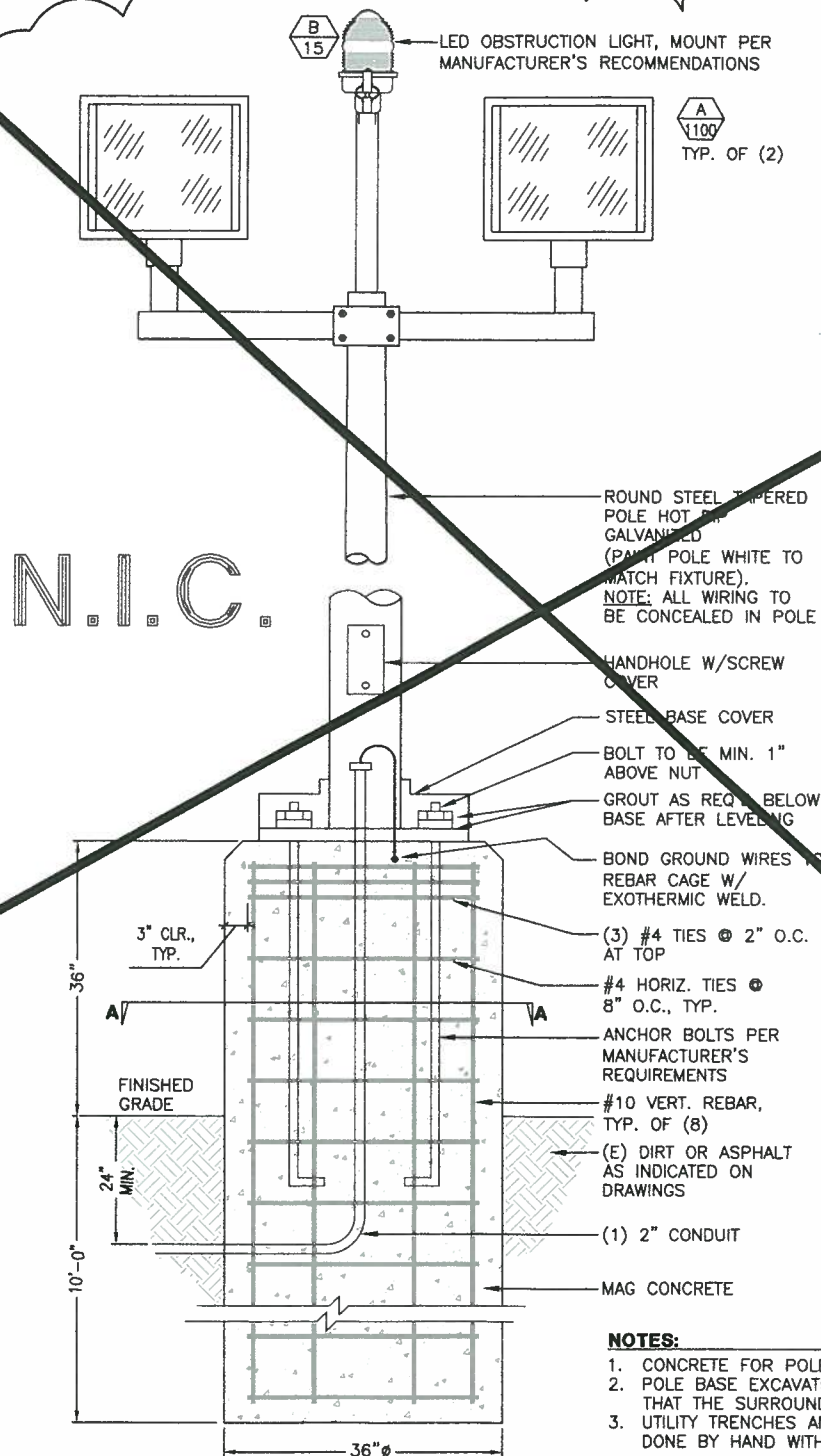
J-4107

E3.7
SHEET 38 OF 49



- NOTES:**
1. PROVIDE COIL POWER FOR (N) CONTACTOR VIA OBSTRUCTION LIGHT CIRCUIT.
 2. PHOTOCELL MOUNTED ON ROOF OF VAULT BUILDING AND AIMED TO THE NORTH.

ADD. ALT. #5
1 ELECTRICAL LIGHTING LADDER DIAGRAM
NO SCALE



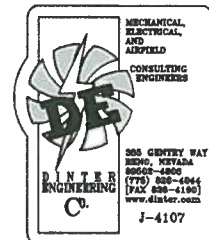
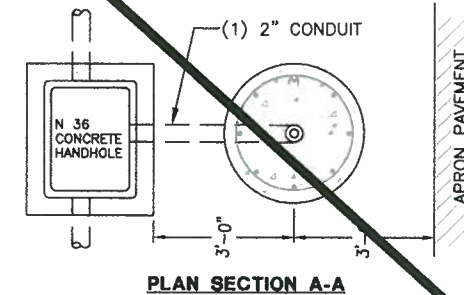
- NOTES:**
1. CONCRETE FOR POLE BASES SHALL MEET MAG SPECS.
 2. POLE BASE EXCAVATIONS SHALL BE CAREFULLY AUGERED SO THAT THE SURROUNDING SOIL IS UNDISTURBED.
 3. UTILITY TRENCHES AND ANY OTHER EXCAVATIONS SHALL BE DONE BY HAND WITHIN 6 FEET OF ANY OF THE POLE BASES.

ADD. ALT. #5
2 APRON FIXTURE POLE & BASE DETAIL
NTS

LIGHT FIXTURE SCHEDULE			
SYMBOL	DESCRIPTION	MANUFACTURER	LAMPS
A 1100	POLE P1 HEAVY DUTY, CORROSION RESISTANT FLOOD LIGHT WITH DIE CAST ALUMINUM HOUSING, TEMPERED GLASS LENS, ALZAK ALUMINUM REFLECTOR, INTERNAL GLARE SHIELD ASSEMBLY DUAL ARC-TUBE LAMP, RESTRIKE, DARK BRONZE FINISH, WET LOCATION LABEL. (SUBMIT FIXTURE SAMPLE POINT-BY-POINT PHOTOMETRIC LAYOUT PREPARED FOR THIS PROJECT, PER SPECIFICATIONS).	STERNER LIGHTING #876-AL-SF-1000S-240-C OR APPROVED SUBSTITUTE WIDELITE #A 2100-AKTRA II 1000W CUTOFF FLOOD LIGHT OR APPROVED SUBSTITUTE	(1) 1000W CLEAR, HPS E-25 MOGUL SCREW
B 15	FAA L-810 OBSTRUCTION RED MARKER LIGHT, LED 120V DIALIGHT 860-1RU1-001, ON TOP OF POLE	DIAL LIGHT #860-1R03-001, 120V, SINGLE HEAD. SIEMENS L-810 LED #SBOL-1110 SINGLE HEAD	LED 15W
	POLES 30' TAPERED ROUND GALVANIZED STEEL POLE LED OBSTRUCTION LIGHT. MOUNT ONE ON EACH POLE PER MANUFACTURER REQUIREMENTS. NOTE: SEE DETAIL FOR MOUNTING REQUIRED.	WHITCO #RTSP-60-12-V1-AB-GP(DB)-FB-OL-CA (CRA-ST-04). VALMONT DS210 HEAVY DUTY POLE MODEL#R800A300	

NOTES:

1. FIXTURE MANUFACTURER AND CATALOG NUMBERS ARE INTENDED TO DEFINE THE GENERAL FIXTURE CONSTRUCTION, LEVEL OF QUALITY AND MAJOR FEATURES. FINAL FEATURE MANUFACTURER AND CATALOG NUMBERS SHALL REFLECT ALL REQUIRED COMPONENTS, HARDWARE AND OPTIONS.
2. ALL HIGH PRESSURE SODIUM LAMPS SHALL BE QUICK-RESTRIKE, DUAL-ARC TUBE, OSRAM #67543 OR APPROVED SUBSTITUTE.



LEE VINING AIRPORT
RUNWAY RECONSTRUCTION
TYPICAL ELECTRICAL INSTALLATION DETAILS

SCALE AS NOTED
DESIGN BY TLF
DATE 03/09
CHECKED BY TLF
DATE 03/09
PROJECT NUMBER 058712110

MECHANICAL, ELECTRICAL, AND AIRFIELD CONSULTING ENGINEERS

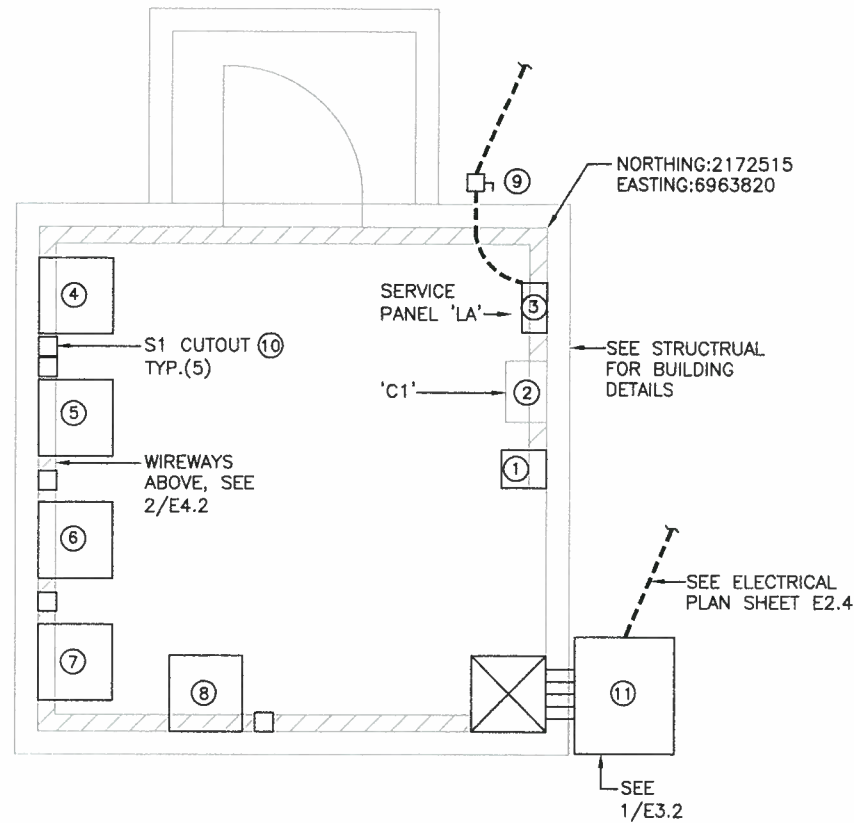
205 GENTRY WAY
2000, MARYLAND
21086-4804
(770) 888-4844
(770) 888-4180
www.de-engineer.com
J-4107

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E3.8
SHEET 39 OF 49

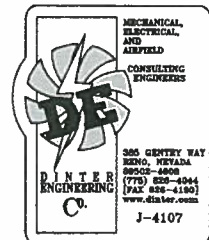
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Apr 28, 2010 - 2:14pm

EQUIPMENT SCHEDULE	
SYM.	DESCRIPTION
①	(N) L-854 RADIO CONTROLLER
②	CONTACTOR PANEL
③	'LA' PANEL SERVICE 280V, 1 ϕ , 100A
④	NEW L-828 REGULATOR, 10kW, (5) STEP (RW 15-33 LIGHTS, THRESHOLD LIGHTS, WINDCONE-R1), 240V, 1 ϕ , 6.6A
⑤	NEW L-828 REGULATOR, 4kW, (3) STEP (TW LIGHTS AND FUTURE LIGHTS & SIGNS - T1), 240V, 1 ϕ , 6.6A
⑥	NEW L-828 REGULATOR, 4kW, (3) STEP (PAPI), 240V, 1 ϕ , 6.6A
⑦	NEW L-828 REGULATOR, 4kW, (3) STEP (REIL), 240V, 1 ϕ , 6.6A
⑧	NEW L-828 REG, 10kW, (5) STEP (SPARE), 240V, 1 ϕ , 6.6A
⑨	100/2P/250V - NF, N3R DISC SN.
⑩	S1 CUTOUTS
⑪	HAND HOLE SEE DETAIL 1/E3.2



VAULT REGULATOR SCHEDULE						
CCR	SERVING	CIRCUIT	RATING (KW/A)	FED FROM	CONDUIT AND WIRE	
R1	R/W 15-33	R1	10/ 6.6	LA - 1. 3	3/4" EMT, 2#6 THWN & GRND	GROUND
T1	T/W	TW	4/ 6.6	LA - 5. 7	1/2" EMT, 2#12 TWHN & GRND	
PAPI	PAPI	PAPI	4/ 6.6	LA - 9. 11	1/2" EMT, 2#12 TWHN & GRND	
REIL	REIL	REIL	4/ 6.6	LA - 15. 17	1/2" EMT, 2#12 TWHN & GRND	
SPARE						

1 ELECTRICAL VAULT LAYOUT PLAN
NTS



LEE VINING AIRPORT
RUNWAY RECONSTRUCTION
AIRFIELD LIGHTING VAULT

SCALE AS NOTED
DESIGN BY TLF
DATE 03/09

PROJECT NUMBER 058712110

DESIGNER: [Signature]
DATE: 4-28-2010

MECHANICAL, ELECTRICAL, AND AIRFIELD CONSULTING ENGINEERS

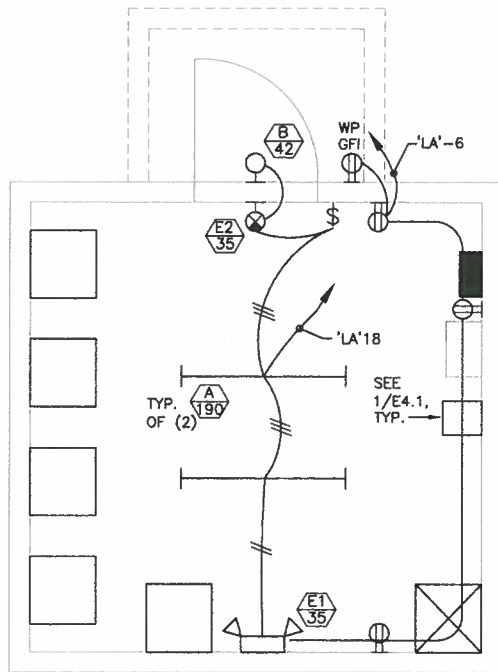
385 GENTRY WAY
8900, NVADA
89025-4808
(775) 858-4944
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E4.1
SHEET 40 OF 49

NO.	DESCRIPTION	DATE	BY	CHECKED	APPD.

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Apr 28, 2010 - 2:15pm

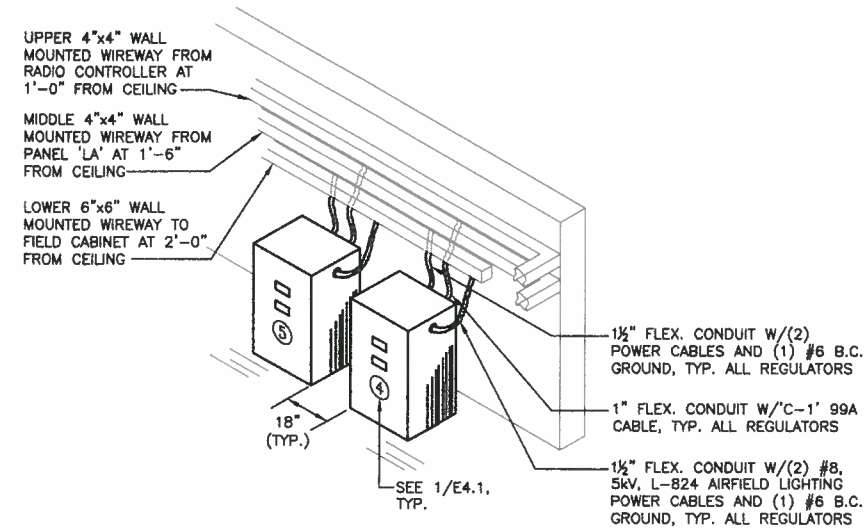


1 ELECTRICAL VAULT LIGHTING/POWER PLAN
NTS

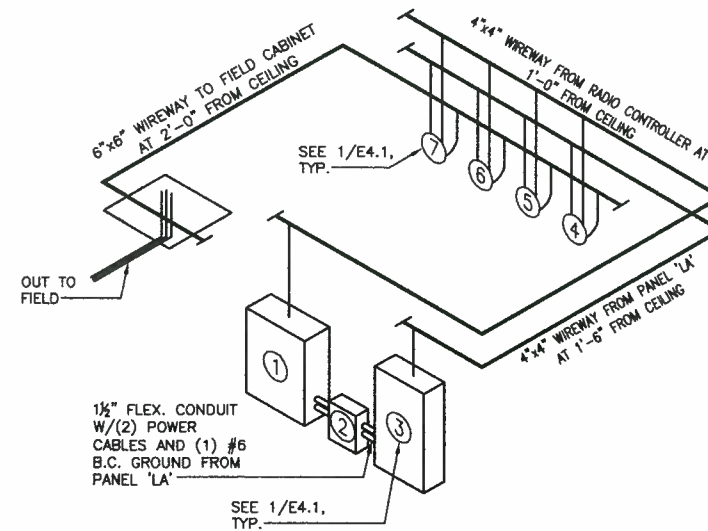
SYM.	DESCRIPTION
	8' 2-LAMP GENERAL PURPOSE INDUSTRIAL STRIP, 120V, 86W LITHONIA EJD-2-96T8HO-120-GEB10RS, MOUNTED ON (2) SWIVEL-STEM HANGERS XX" FROM CEILING
	SURFACE MOUNTED WALL PACK COMPACT FLUORESCENT 120V, 42W, LITHONIA TWA, AND PHOTOCELL,TWA-42TRT-120-PE PHOTOCELCKIT*
	WALL MOUNTED STEEL HOUSING WITH (2) 8W HALOGEN LAMPS, 120V, 36 W, LITHONIA, ELT36-120-H
	WALL MOUNTED DIE FORMED STEEL HOUSING EXIT SIGN WITH LED LAMP, 120V, 4 AMP. INPUT WITH 90 MIN. EMERGENCY LIGHTING CAPACITY LITHONIA LX-S-R-120-ELN

ELECTRICAL SYMBOLS

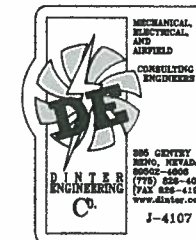
- CONDUIT RUN IN OR ON CEILING OR WALL
- HASH MARKS INDICATE NUMBER OF #12 AWG CONDUCTORS IN CONDUIT, NO MARKS INDICATE (2) #12'S. DOES NOT INCLUDE GROUND WIRE. IF NON-METALLIC, CONDUIT ADD GROUND PER NEC
- HOMERUN TO PANEL WITH PANEL AND CIRCUIT INDICATED
- LIGHT FIXTURE, SEE SCHEDULE FOR DETAILS
- LIGHT FIXTURE, SEE SCHEDULE FOR DETAILS
- LIGHT FIXTURE, SEE SCHEDULE FOR DETAILS
- EMERGENCY BATTERY UNIT WITH TWIN HEADS ON UNSWITCHED CIRCUIT
- SINGLE POLE SWITCH +48" AFF
- ELECTRICAL PANEL BOARD SURFACE MOUNTED
- RECEPTACLE
- AFF ABOVE FINISH FLOOR
- GFCI GROUND FAULT CIRCUIT INTERRUPTION
- WP WEATHER PROOF



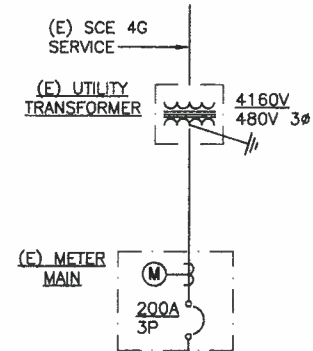
2 NEW REGULATOR CONNECTIONS AND SPACING DETAIL
NTS



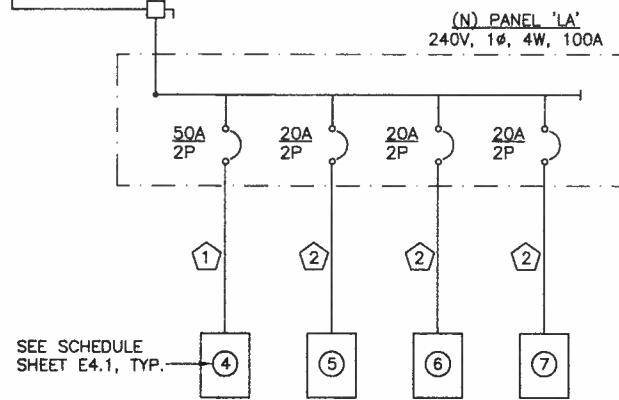
3 VAULT BUILDING WIREWAY SCHEMATIC VIEW
NTS



SCALE AS NOTED	DESIGN BY TLF	CHECKED BY TLF	DATE 03/09	PROJECT NUMBER 058712110
LEE VINING AIRPORT RUNWAY RECONSTRUCTION AIRFIELD LIGHTING VAULT				
E4.2 SHEET 41 OF 49				



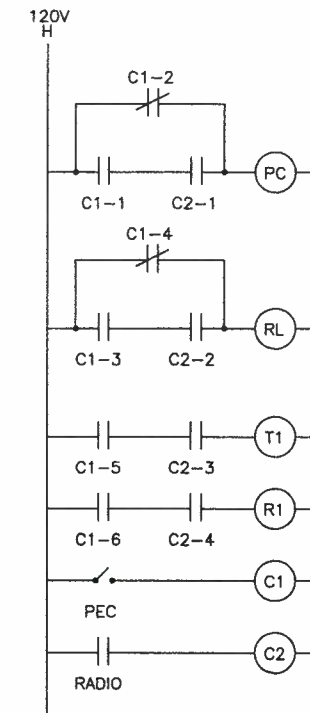
FEEDER SCHEDULE	
SYM.	DESCRIPTION
①	(N) (2) #6 AWG, THWN AND (1) GND IN 3/4" CONDUIT
②	(N) (2) #12 AWG, THWN AND (1) GND IN 1/2" CONDUIT



SEE SCHEDULE SHEET E4.1, TYP.

1 SINGLE LINE DIAGRAM
NTS

PANEL BOARD	LA	36K AIC					
DIRECTORY	LOAD	BKR	CIR	CIR	BKR	LOAD	DIRECTORY
CCR R1 (RW 15-33) 4KW	4368	50	1	A	2		
	4368	2	3	B	4		
CCR T1 (TW) 4KW	285	20	5	C	6	20/1	900 Receptacles (5)
	285	2	7	A	8		
CCR PAPI (PAPI) 4 KW	881	20	9	B	10		
	881	2	11	C	12	20	300 Contactor
			13	A	14	2	300
CCR REIL (REIL) 4 KW	869	20	15	B	16		
	869	2	17	C	18	20/1	547 Vault Lighting
			19	A	20		
CONNECTED LOAD		14853 VA	(61.9 A)		OTHER NOTES:		
A=		4953 VA	20.6 A		240V, 1PH, 4W		
B=		6118 VA	25.5 A		100 AMP MCB		
C=		3782 VA	15.8 A		100 AMP BUS		



2 PAPI CONTROL DIAGRAM
NTS

SEQUENCE OF OPERATION	
PHOTO CELL:	
PEC1	OPEN DURING DAYLIGHT CLOSED DURING DARKNESS
PEC2	CLOSED DURING DAYLIGHT OPEN DURING DARKNESS
RADIO	NORMALLY OPEN CLOSED WHEN RADIO IS KEYED.

NOTES:
1. PC REPRESENTS PAPI CONTROL.

NO.	DATE	REVISION	DESCRIPTION	CHECKED	APPROVED

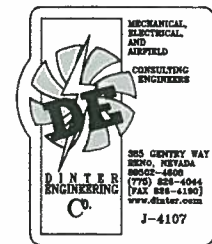
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DESIGN BY TLF
DATE 03/08
PROJECT NUMBER 058712110

LEE VINING AIRPORT
RUNWAY RECONSTRUCTION
AIRFIELD LIGHTING VAULT

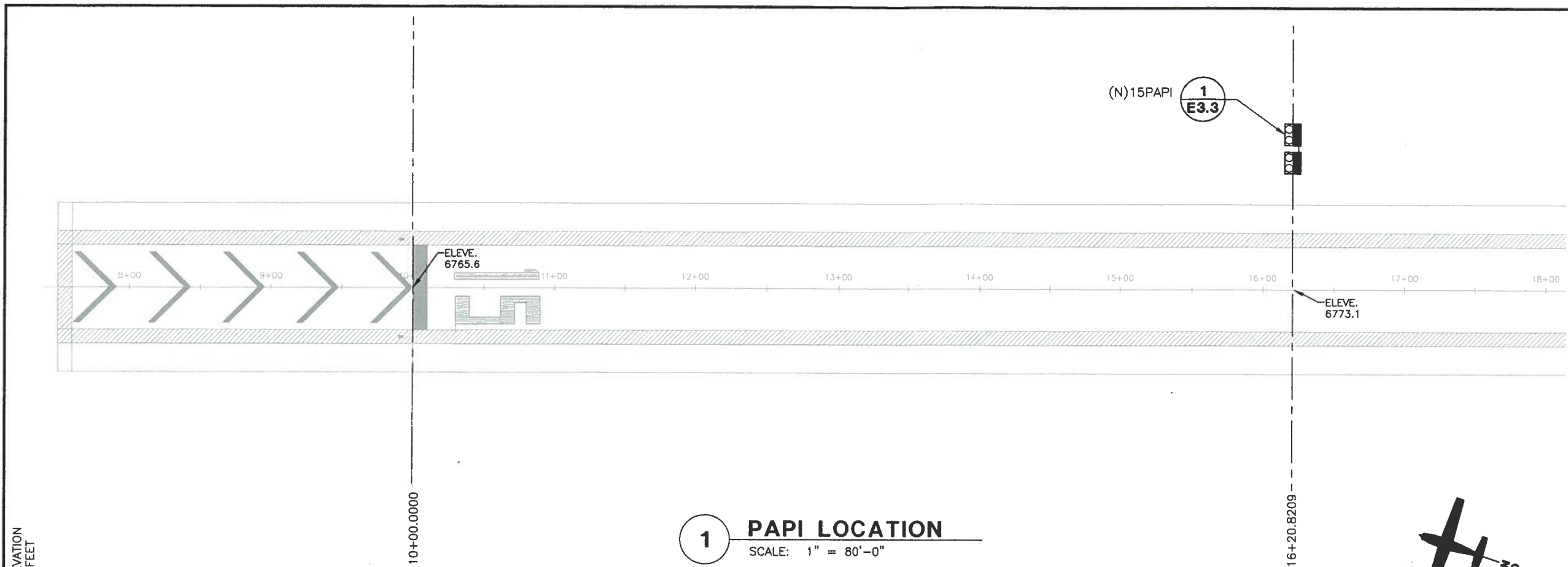
585 Double Eagle Court
Suite 2000
Fremont, CA 94538
Tel: 775-838-8222
Fax: 775-838-8228

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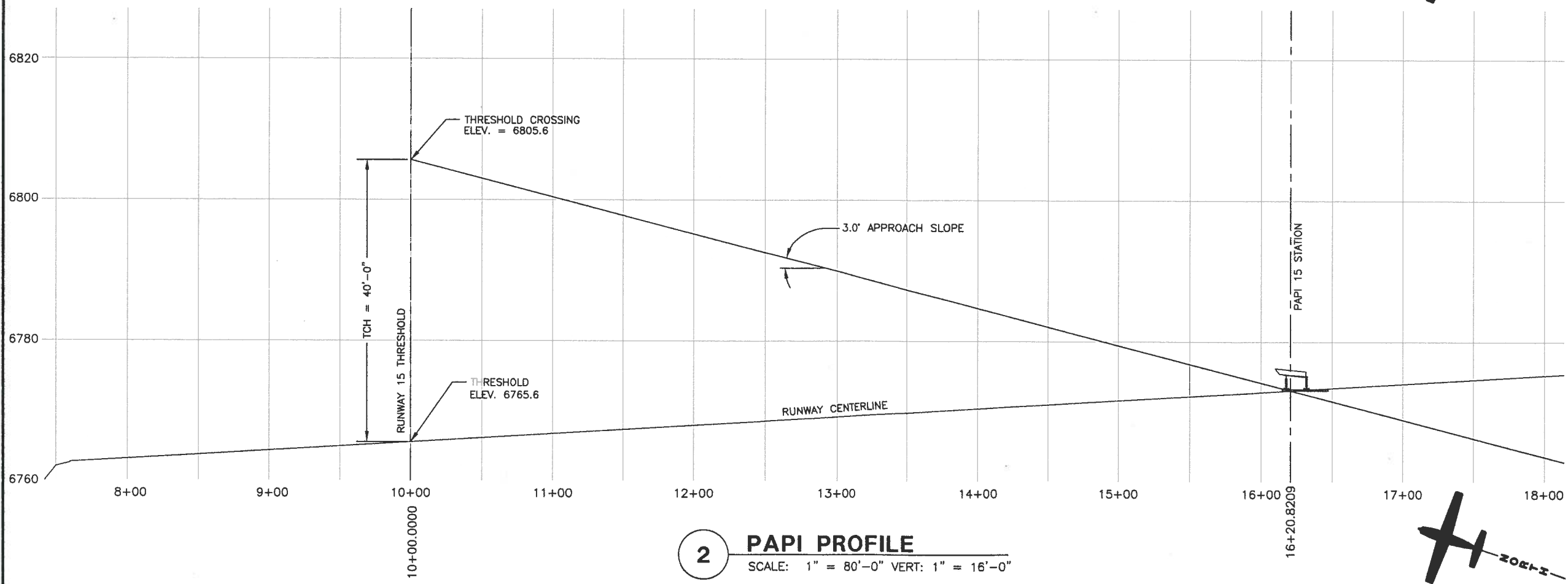
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SHEET 42 OF 49



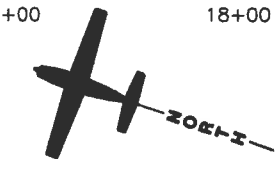
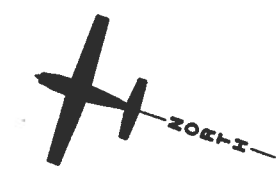
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Apr 28, 2010 - 2:12pm



1 PAPI LOCATION
SCALE: 1" = 80'-0"



2 PAPI PROFILE
SCALE: 1" = 80'-0" VERT: 1" = 16'-0"



SCALE	AS NOTED	DESIGN BY	TLF	DATE	03/09	CHECKED BY	TAP	PROJECT NUMBER	058712110
DESIGNED BY	TLF	DATE	03/09	CHECKED BY	TAP	PROJECT NUMBER	058712110	DESCRIPTION REVISIONS	

LEE VINING AIRPORT
RUNWAY RECONSTRUCTION
R/W 15 PAPI INSTALLATION

385 Pacific Eagle Court
Suite 2000
Brea, Nevada 92621
Tel: 775/638-2020
Fax: 775/638-2020

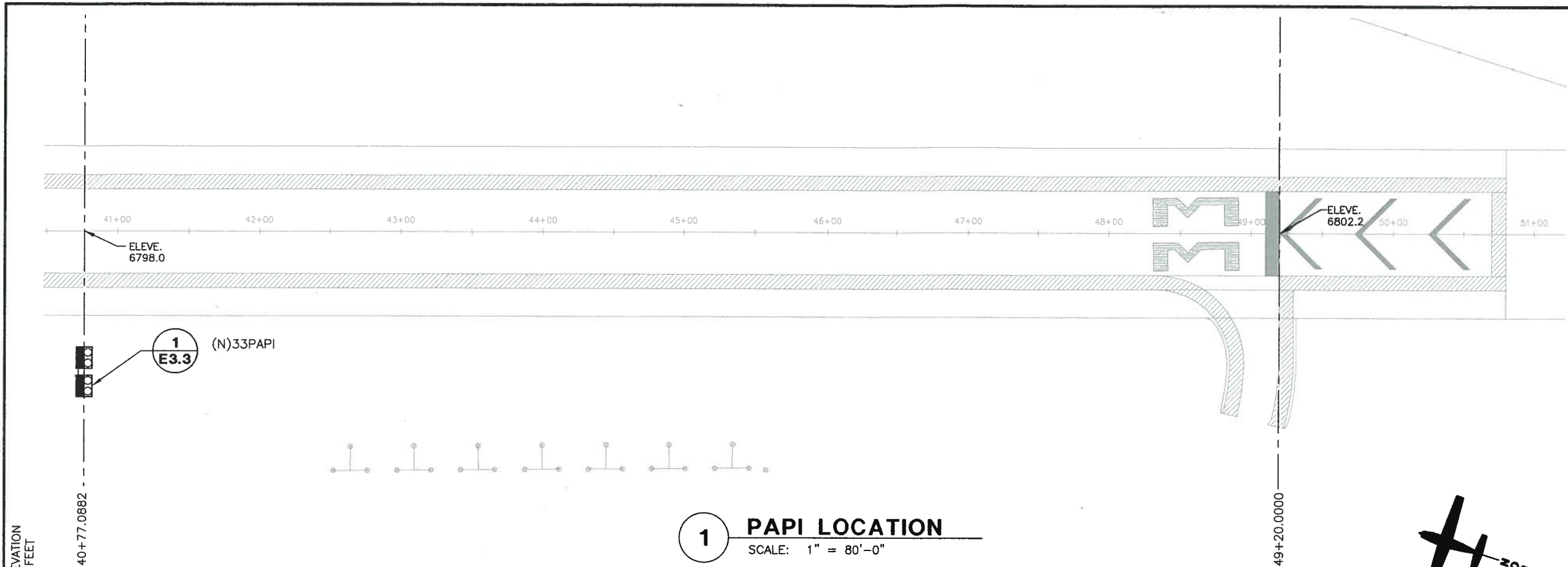
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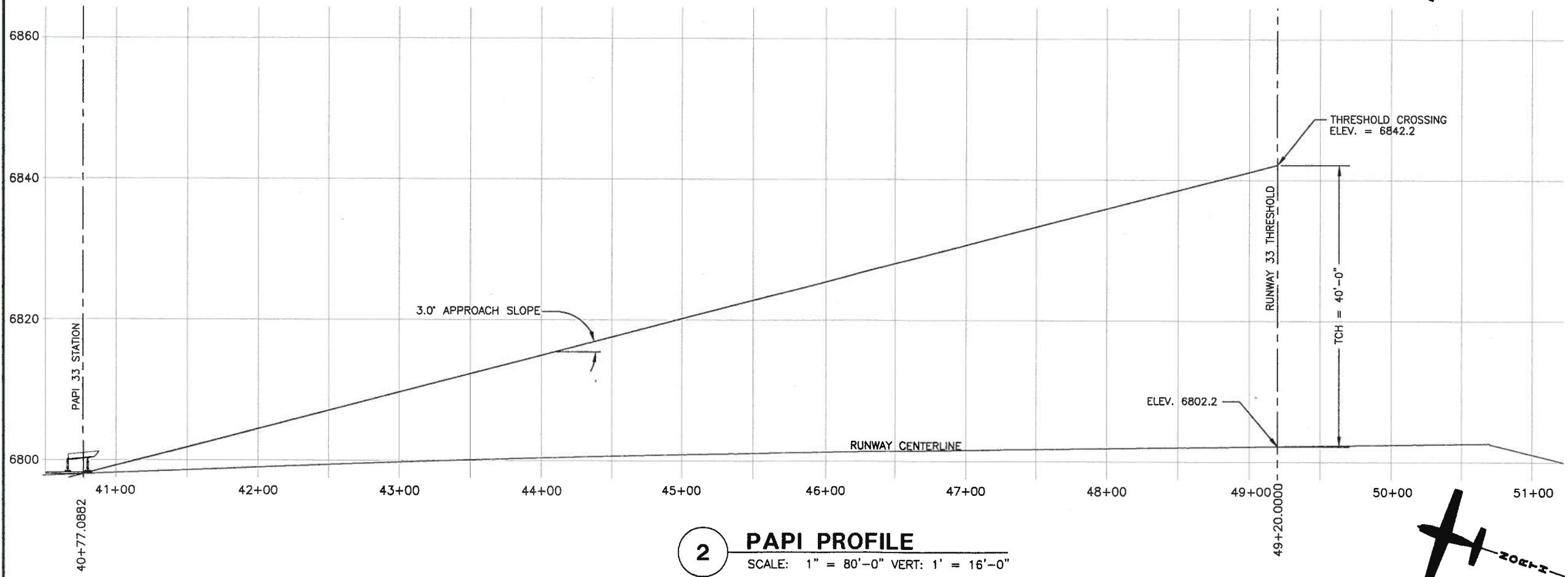
385 GENTRY WAY
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92621-4000
(714) 836-8844
(714) 836-4190
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E5.1

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Apr 28, 2010 - 2:12pm



1 PAPI LOCATION
SCALE: 1" = 80'-0"



2 PAPI PROFILE
SCALE: 1" = 80'-0" VERT: 1' = 16'-0"

SCALE	AS NOTED
DESIGN BY	TLF
DATE	05/09
CHECKED BY	TAP
PROJECT NUMBER	058712110
DATE	4.25.2010
DESCRIPTION	REVISIONS
CHECKED	APPD

LEE VINING AIRPORT
RUNWAY RECONSTRUCTION
RAW 33 PAPI INSTALLATION

LEE Poble Eng. Court
Suite 200
Folsom, Nevada 89427
Phone: 775-782-9838
Fax: 775-782-9838

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E5.2
SHEET 44 OF 49

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