## POLE SET BACK:

FUSE(S) IN CKT. TO BALLAST WITH

BUSS"TRON" HEB-AA WATERPROOF

BUSS TYPE "KTK" FUSE(S) AND

FUSE HOLDERS. SIZE FUSES AS

REQUIRED BY LUMINAIRE

CONNECT GROUND TO POLE

BASE W/BURNDY NO. GB4C —

MANUFACTURER-

BASE COVER-

BUSH CONDUITS -

EXPANSION JOINT-

EDGE OF SIDEWALK,

AREA, BUILDING OR

MISC. OBSTRUCTION

CURB, STREET, PAVED

NO. 8 TW GREEN

GROUND WIRE

5/8" X 8'

COPPÉR WELD

GROUND ROD

1" CHAMFER —

	MINIMUM DISTANCE
DIMENSION 'X'	FROM EDGE TO POLE CENTER
3'-3"	SIDEWALK, WALKWAY
7'-3"	STREET, PARKING LOT

HOME RUN C/W

GROUND ROD

CLAMP BURNDY

NO. GAR-644C

DESIGN NOTES:

-POLE ID TAG

(SEE NOTE 7)

FLANGE.)

-STD. DUTY

- HAND HOLE - 4" X 6" (NOMINAL)

-PROJECT ANCHOR BOLTS 3" ABOVE

GROUT RUB AND HAND FINISH ALL

-6' + /- ABOVE GRADE

CONCRETE MAINTENANCE

RING ENCIRCLING

CONCRETE FOOTING

NON-LAWN AREAS.

-FINISH GRADE

NOTE: OMIT CONCRETE

MAINTENANCE RING IN

COMPACTED GRAVEL BASE

ANCHOR BOLTS TO BE

REINFORCED CONCRETE

BASE W/ FULL HT. SONOTUBE

4 NO. 5 REBARS FOR CAGE

PEASTONE

WELD NO. 5 TIE RODS ALL AROUND @ 12" O.C.

FURNISHED BY POLE

MANUFACTURER

EXPOSED CONCRETE TOP AND SIDES

TOP OF BASE. PROVIDE DOUBLE

NUTS FOR LEVELING UNIT (ONE ABOVE AND ONE BELOW BASED

- 1. POLE LOCATION AND SPACING FOR SPECIFIC PROJECTS SHALL COMPLY WITH CMU STANDARDS.
- 2. DESIGN ENGINEER SHALL SUBMIT POINT X POINT PRINT OUT OF PROJECT AREA TO CMU PROJECT MANAGER.
- 3. DESIGN ENGINEER SHALL PROVIDE SPECIFIC CONDUIT AND WIRE REQUIREMENTS
- 4. DESIGN STRUCTURAL ENGINEER SHALL REVIEW SOIL CONDITIONS AND ADJUST BASE DESIGN TO SUIT SOIL CONDITIONS
- 5. DESIGN ENGINEER TO DETERMINE POLE BASE DEPTH BASED ON THE NUMBER OF LUMINARIES PER POLE, WIND LOAD, AND SOIL CONDITIONS
- 6. IF GROUND JUNCTION BOX IS REQUIRED USE QUAZITE HUBBELL PG SERIES

  11"X18"X12"MINIMUM SIZE
  PG1118CA00—17,36,OR 29
  PG1118BA12 (LT GREEN OR GRAY)
  WITH TYCO WATER PROOF STREET
  SPLICE KITS. DESIGN ENGINEER SHALL
  CALL FOR EXACT GROUND J.B. LOCATIONS.
  GROUND J.B. SHALL BE INSTALLED IN HIGH
  GROUND WHICH IS NOT SUBJECT TO FLOODING.
  COORDINATE WITH CMU PROJECT MANAGER.
- 7. ADDITIONAL HANDHOLE MAY BE REQUIRED FOR SECURITY CAMERA AT 8'-6" ABOVE POLE FLANGE TO CL COORDINATE W/CMU PM FOR SECURITY CAMERA LOCATION.

CONCRETE FOR LIGHT POLE BASSES AND MAINTENANCE RINGS TO BE AIR ENTRAINED WITH A 28-DAY COMPRESSIVE STRENGTH OF 4,000 psi.

6' - 0"TO 10'-0"

SEE NOTES

4&5

2' - 6"

MANAGER.

REQUIRED FOR

OVE POLE

/CMU PM FOR

CONCRETE LANDSCAPE RING

EXPANSION JOINT

MAINTENANCE RING

NOT TO SCALE

2" WHITE LETTERS ON BLACK BACKGROUND ENGRAVED LAMINATED PLASTIC TAG. -UNIQUE POLE NUMBER ADHERE TO POLE. VERIFY PRODUCT CIRCUIT NUMBER: KE = 2 DIGIT ALPHA/NUMERIC BUILDING DESIGNATION KE-LPA-27 LPA = PANEL FEEDING POWER 21 = CIRCUIT NUMBER(S)VOLTAGE 1/4" WHITE LETTERS ON BLACK BACKGROUND ENGRAVED LAMINATED PLASTIC TAG. TAG NOTES: ID TAG TO BE ATTACHED ON SAME SIDE

10', & 16' EXTERIOR LIGHT POLE BASE DETAIL
OUTDOOR LIGHTING STANDARDS
NOT TO SCALE

PVC CONDUIT

HOME RUN C/W

CONTRACTOR TO RUN

#12 WIRES FROM THE

FUSES TO THE FIXTURES

POLE ID TAG DETAIL

NOT TO SCALE

AS HANDHOLE

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CENTRAL MICHIGAN UNIVER
ELECTRICAL
10' + 16' EXTERIOR LIGHTING

DRAWING SET INFO

50% SCHEMATIC DESIGN REVIEW

90% SCHEMATIC DESIGN REVIEW

50% DESIGN DEVELOPMENT REVIEW

90% DESIGN DEVELOPMENT REVIEW

50% CONSTRUCTION DOC. REVIEW

90% CONSTRUCTION DOC. REVIEW

BID AND CONSTRUCTION SET

FINAL RECORD — AS BUILT SET

FOR REFERENCE ONLY

DRAWN BY\_\_\_\_\_\_CHECKED BY\_\_\_\_\_APPROVED BY\_\_\_\_\_

DATE DESCRIPTION

1 4.23.13 Light Pole Revisions

2 5.12.14 NEW LIGHTING STANDARD

3 7.23.14 Revise Pole ID Tog

DWG CREATED 6.21.06

SCALE NTS

ACAD FILE#

PLOT DATE 8.24.06

SHEET NO.

E-1
CMU PROJECT NO.

## #12 WIRES FROM THE -POLE ID TAG FUSES TO THE FIXTURES HAND HOLE - 4" X 6" (NOMINAL) FUSE(S) IN CKT. TO BALLAST WITH (SEE NOTE 7) BUSS TYPE "KTK" FUSE(S) AND BUSS"TRON" HEB-AA WATERPROOF - PROJECT ANCHOR BOLTS 3" ABOVE FUSE HOLDERS. SIZE FUSES AS TOP OF BASE. PROVIDE DOUBLE REQUIRED BY LUMINAIRE NUTS FOR LEVELING UNIT (ONE MANUFACTURER — ABOVE AND ONE BELOW BASED FLANGE.) CONNECT GROUND TO POLE BASE W/BURNDY NO. GB4C — GROUT RUB AND HAND FINISH ALL EXPOSED CONCRETE TOP AND SIDES BASE COVER--6' + / - ABOVE GRADE BUSH CONDUITS --STD. DUTY 1" CHAMFER-CONCRETE MAINTENANCE RING ENCIRCLING EXPANSION JOINT-CONCRETE FOOTING EDGE OF SIDEWALK, NOTE: OMIT CONCRETE CURB, STREET, PAVED MAINTENANCE RING IN AREA, BUILDING OR NON-LAWN AREAS. MISC. OBSTRUCTION -FINISH GRADE COMPACTED GRAVEL BASE DIMENSION X SEE CHART — 2' - 6" ANCHOR BOLTS TO BE FURNISHED BY POLE MANUFACTURER 6' - 0"TO 10'-0" REINFORCED CONCRETE SEE NOTES 4&5 BASE W/ FULL HT. SONSTUBE HOME RUN C/W HOME RUN C/W PVC CONDUIT NO. 8 TW GREEN GROUND WIRE CAGE SHALL BE 18' DIAMETER WITH #3 TIE RODS AT 14" O.C. AND (8) - GROUND ROD 5/8" X 8' #6 REBAR CLAMP BURNDY COPPÉR WELD NO. GAR-644C GROUND ROD - PEASTONE

24' EXTERIOR LIGHT POLE BASE DETAIL

OUTDOOR LIGHTING STANDARDS

NOT TO SCALE

CONTRACTOR TO RUN

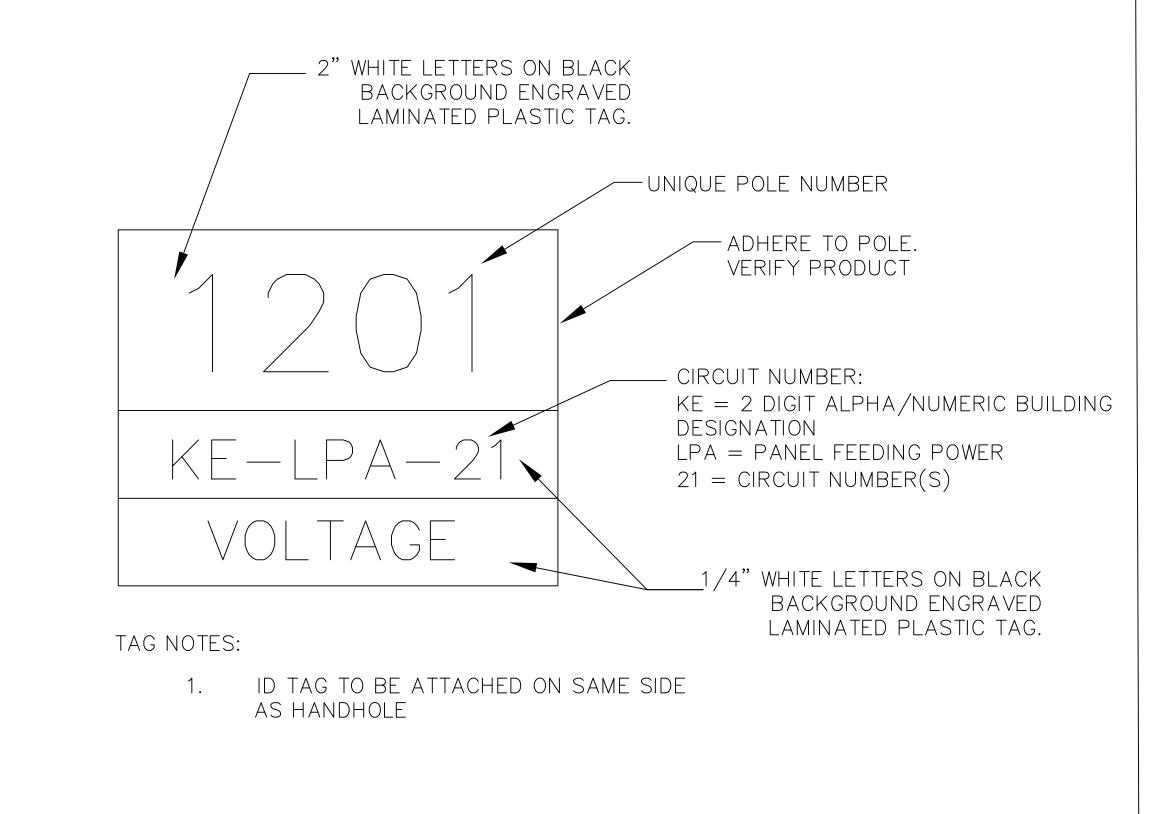
## POLE SET BACK:

	MINIMUM DISTANCE
DIMENSION 'X'	FROM EDGE TO POLE CENTER
3'-3"	SIDEWALK, WALKWAY
7'-3"	STREET, PARKING LOT

## DESIGN NOTES:

- 1. POLE LOCATION AND SPACING FOR SPECIFIC PROJECTS SHALL COMPLY WITH CMU STANDARDS.
- 2. DESIGN ENGINEER SHALL SUBMIT POINT X POINT PRINT OUT OF PROJECT AREA TO CMU PROJECT MANAGER.
- 3. DESIGN ENGINEER SHALL PROVIDE SPECIFIC CONDUIT AND WIRE REQUIREMENTS
- 4. DESIGN STRUCTURAL ENGINEER SHALL REVIEW SOIL CONDITIONS AND ADJUST BASE DESIGN TO SUIT SOIL CONDITIONS
- 5. DESIGN ENGINEER TO DETERMINE POLE BASE DEPTH BASED ON THE NUMBER OF LUMINARIES PER POLE, WIND LOAD, AND SOIL CONDITIONS
- 6. IF GROUND JUNCTION BOX IS REQUIRED USE QUAZITE HUBBELL PG SERIES 11"X18"X12"MINIMUM SIZE PG1118CA00—17,36,OR 29 PG1118BA12 (LT GREEN OR GRAY) WITH TYCO WATER PROOF STREET SPLICE KITS. DESIGN ENGINEER SHALL CALL FOR EXACT GROUND J.B. LOCATIONS. GROUND J.B. SHALL BE INSTALLED IN HIGH GROUND WHICH IS NOT SUBJECT TO FLOODING. COORDINATE WITH CMU PROJECT MANAGER.

- ADDITIONAL HANDHOLE MAY BE REQUIRED FOR SECURITY CAMERA AT 8'-6" ABOVE POLE FLANGE TO CL COORDINATE W/CMU PM FOR SECURITY CAMERA LOCATION.
- 8. CONCRETE FOR LIGHT POLE BASSES AND MAINTENANCE RINGS TO BE AIR ENTRAINED WITH A 28-DAY COMPRESSIVE STRENGTH OF 4,000 psi.



POLE ID TAG DETAIL

P:\\ZXO\Templates\\ZXO`~WordmandT\_Etit.tii

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ENTRAL MICHIGAN UNIVERSITY
LECTRICAL
EXTERIOR LIGHTING

DRAWING SET INFO

50% SCHEMATIC DESIGN REVIEW

90% SCHEMATIC DESIGN REVIEW

50% DESIGN DEVELOPMENT REVIEW

90% DESIGN DEVELOPMENT REVIEW

90% CONSTRUCTION DOC. REVIEW
BID AND CONSTRUCTION SET
FINAL RECORD — AS BUILT SET
FOR REFERENCE ONLY

DRAWN BY\_\_\_\_\_\_CHECKED BY\_\_\_\_\_

DWG CREATED

SCALE

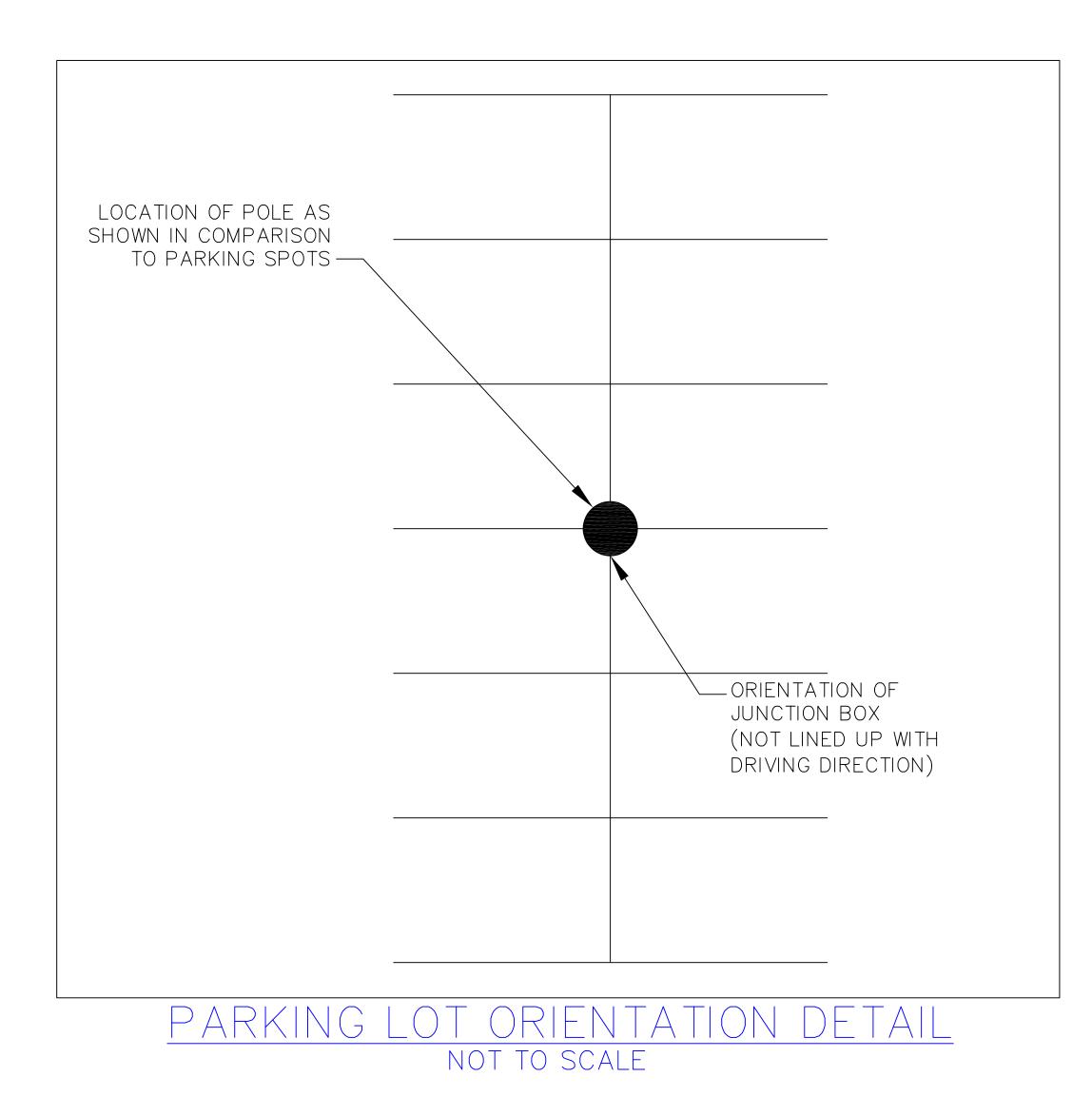
SCALE NTS

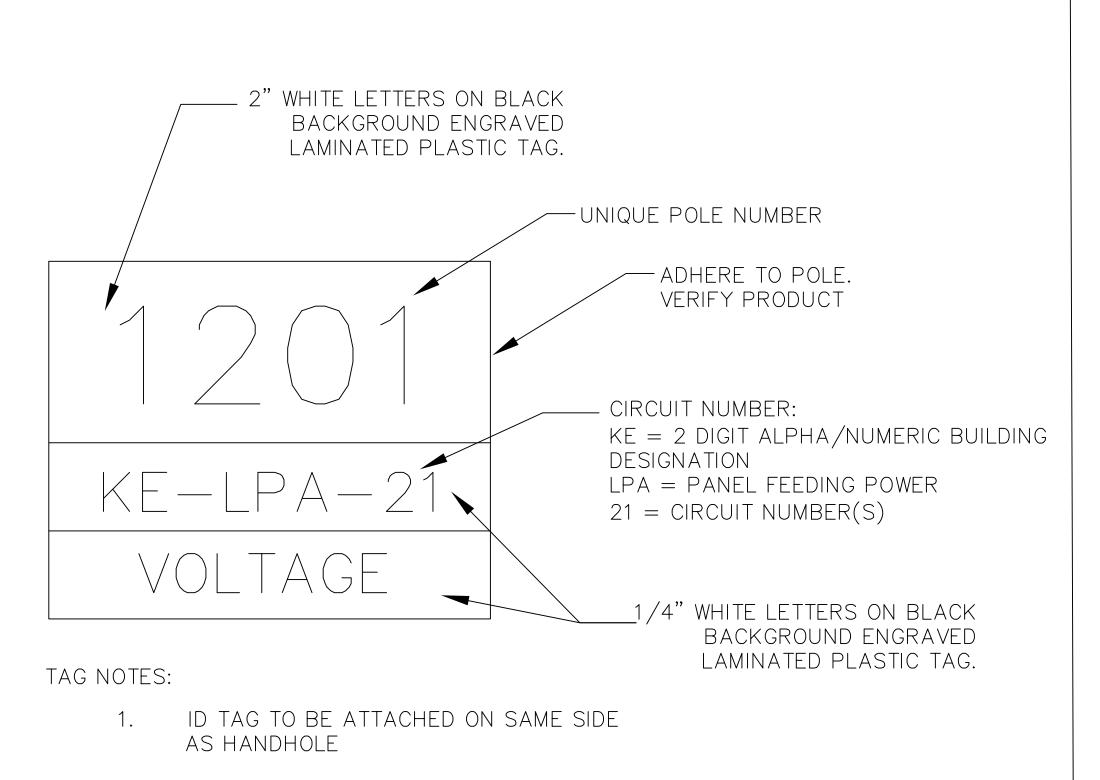
ACAD FILE#

PLOT DATE 8.24.06

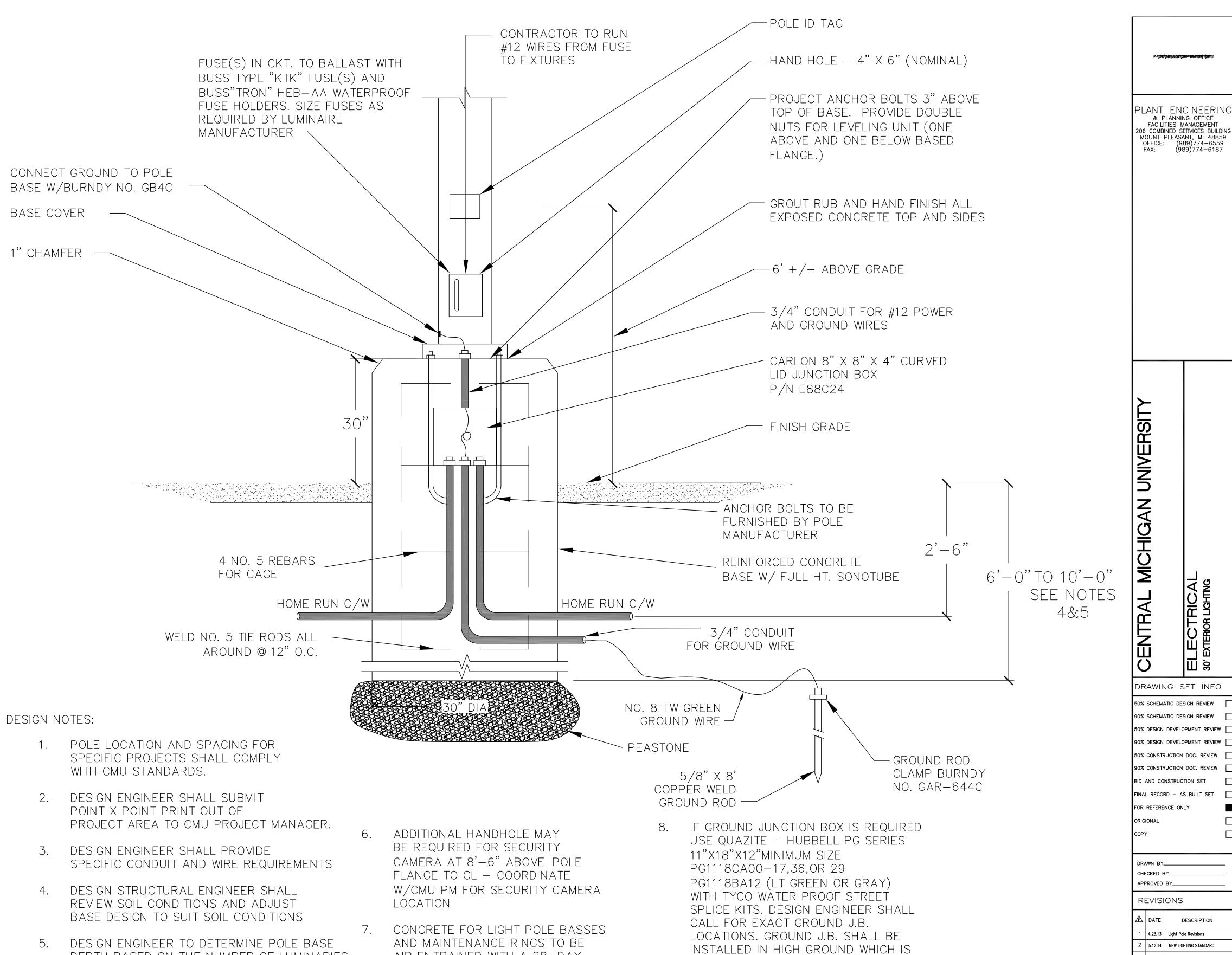
SHEET NO.

E-2
CMU PROJECT NO.





POLE ID TAG DETAIL NOT TO SCALE



30' EXTERIOR LIGHT POLE BASE DETAIL OUTDOOR LIGHTING STANDARDS

COMPRESSIVE STRENGTH OF 4,000 psi

NOT SUBJECT TO FLOODING.

MANAGER.

COORDINATE WITH CMU PROJECT

AIR ENTRAINED WITH A 28-DAY

DEPTH BASED ON THE NUMBER OF LUMINARIES

PER POLE, WIND LOAD, AND SOILS CONDITIONS.

NOT TO SCALE

6.21.06 DWG CREATED ACAD FILE# 7.05.06 PLOT DATE SHEET NO.

E-3

ELECTRICAL 30' EXTERIOR LIGHTING

OR REFERENCE ONLY

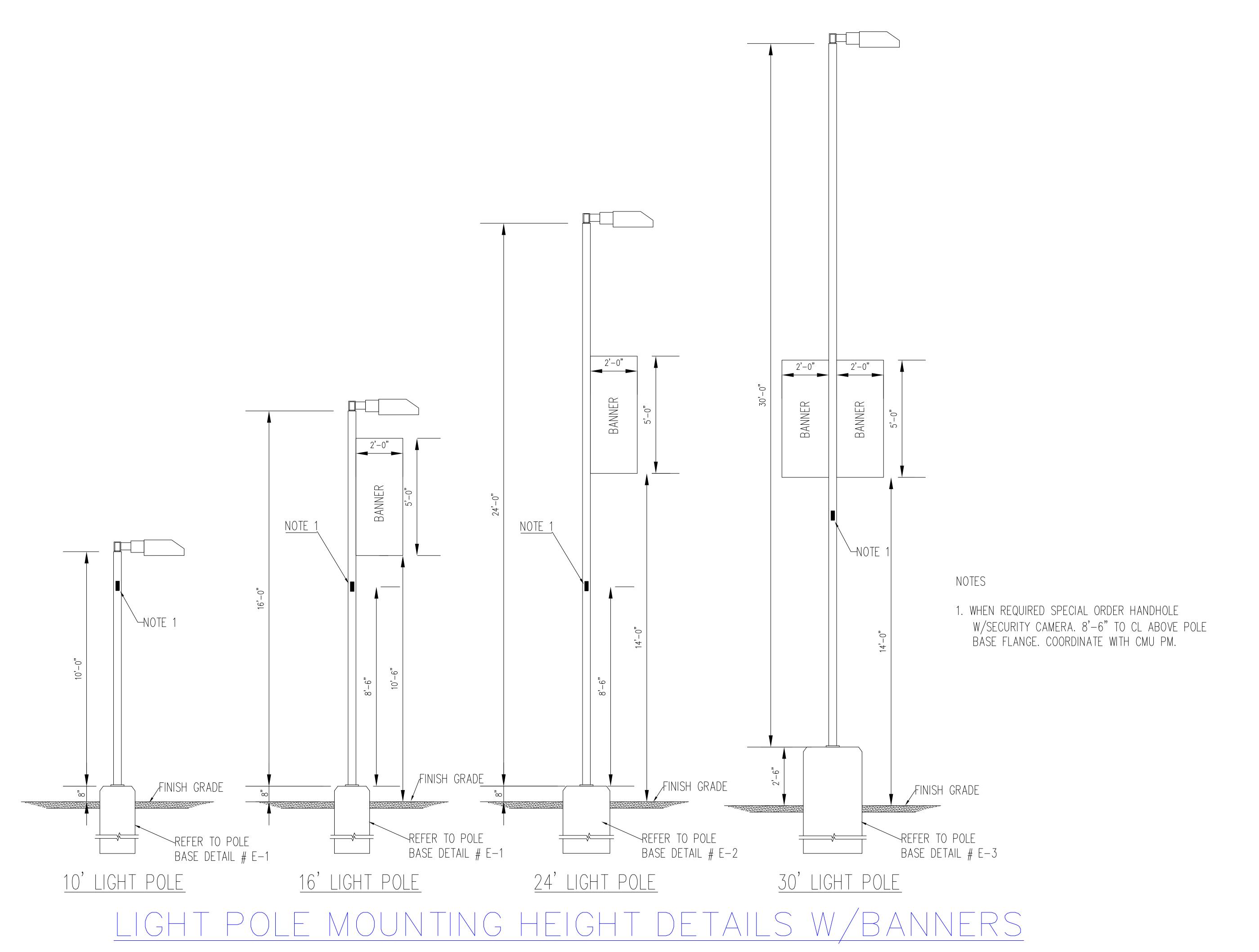
APPROVED BY\_\_\_

DESCRIPTION

4.23.13 Light Pole Revisions

2 5.12.14 NEW LIGHTING STANDARD

CMU PROJECT NO.



P?\Cno\Tempates\Cno\=\orange\Tuncut

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CENTRAL MICHIGAN UNIVERSITY

ELECTRICAL

EXTERIOR LIGHTING POLE HEIGHT COMPARISON WITH BANNER

% DESIGN DEVELOPMENT REVIEW

% DESIGN DEVELOPMENT REVIEW

% CONSTRUCTION DOC. REVIEW

% CONSTRUCTION DOC. REVIEW

D AND CONSTRUCTION SET

IAL RECORD — AS BUILT SET

R REFERENCE ONLY

WN BY\_\_\_\_\_

7 8 9 10 DWG CREATED 8.6.

SCALE 1/4" = 1'-0" ACAD FILE#

CMU PROJECT NO.

PLOT DATE
SHEET NO.

E-4

1/4" = 1'-0"