

City of Cleveland Justin M. Bibb, Mayor

Department of Finance
Division of Purchases & Supplies
601 Lakeside Avenue, Room 128
Cleveland, Ohio 44114-1080
216/664-2620 • Fax: 216/664-2177
www.cleveland-oh.gov

December 5, 2023

ADDENDUM 1

BID TITLE: File No. 175-23 L & M Necessary to Repair & Maintain Decorative & Special Bridge Lighting 2023

BID DUE: Thursday, December 14, 2023 at 12 o'clock noon (Eastern Time)

Attention Bidders:

We have been requested to issue the addendum for the following:

Please ensure that a copy of this addendum is included and returned with the bid specifications furnished to you by this office, as it will have the same force and effect as if it were part of the specifications originally issued.

- 1. Extend the bid opening date from Thursday, December 7, 2023 to Thursday, December 14, 2023.
- 2. Provide to potential bidders, revised Bid Schedule of Items pages, revised Sections C and D of the bid specifications, and associated drawings for this bid project.

If you have any questions regarding the attached, please contact Lisha Strickland at 216-664-2444, extension 76119. Thank you for your prompt attention and assistance in this matter.

Signature of Potential Bidder & Name of Company	Today's Date

Thank you,

Donia Patterson, Assistant Administrator

Purchases & Supplies

CC:

Attachments

Decorative and Special Bridge Lighting Add. #1, Page 2.

This addendum serves to provide all potential bidders with revised Schedule of Item pages, revised Section C – Supplemental General Conditions pages & revised Section D – Detailed Specifications pages, and Exhibits A and B drawings.

The pages in this addendum will replace those pages received in the original bid package. The failure of bidders to complete and submit the revised Schedule of Items pages, and all of the other revised pages included in this addendum with their bid response, will result in the disqualification of their bid.

If you have any questions regarding the attached, please contact the Division of Purchases & Supplies at 216-664-2620. Thank you.

Attachments

${\bf BID-SCHEDULE\ OF\ ITEMS}$

City of Cleveland

BIDDER MUST COMPLETE AND SIGN BELOW

Division of Purchases And Supplies 128 City Hall Cleveland, Ohio 44114 NAME OF FIRM

TITLE OF BID

Labor and Materials Necessary to Repair and Maintain Decorative and Special Lighting on Bridges and Wyland Whale Mural Park 2023

STREET ADDRESS

ORDINANCE NO. PASSED SIGNED ZIP CODE CITY STATE Ord. No. 434-2023 May 22, 2023 May 25, 2023 **AUTHORIZED SIGNATURE** DIVISION DEPARTMENT CLEVELAND PUBLIC POWER **PUBLIC UTILITIES** STANDARD CONTRACT BID CITY RECORD ADVERTISEMENT DATES REQUIREMENT CONTRACT BID DATE November 1, 2023 and November 8, 2023 BUYER: Division of Purchases & Supplies 216-664-2620 BID OPENING: 12:00 O'CLOCK NOON OFFICIAL TIME Thursday, 12-7-23

For light fixture tag# descriptions see specifications in Exhibit A. For light fixture locations and quantities see Specification drawings in Exhibit B. Unit price is to include labor & material.

DESCRIPTION	QUANTITY	UNIT PRICE	EXTENSION
ITEM NO. 1: Willow Street Bridge			
A. Light Fixture Tag #A-101(qty. at bridge 48):			
1A-1. Replacement of lamp	10		
1A-2. Replacement of lens – clear	2		
1A-3. Replacement of lens – color	2		
1A-4. Replacement of ballasts	2		
1A-5. Cleaning of exterior lens	100		
1A-6. Cleaning of Reflectors	10		
B. Light Fixture Tag #H-100 (qty. at bridge 22):			
1B-1. Replacement of lamp	6		
1B-2. Replacement of lens	2		
1B-3. Replacement of ballasts	2		
1B-4. Cleaning of exterior lens	44		
1B-5. Cleaning of Reflectors	6		
C. Light Fixture Tag #H-101 (qty. at bridge 4):			
1C-1. Replacement of lamp	2		
1C-2. Replacement of lens	2		
1C-3. Replacement of ballasts	2		
1C-4. Cleaning of exterior lens	8		
1C-5. Cleaning of Reflectors	2		
D. Light Fixture Tag #H-102 (qty. at bridge 16):			
1D-1. Replacement of lamp	4		
1D-2. Replacement of lens	2		
1D-3. Replacement of ballasts	2		
1D-4. Cleaning of exterior lens	32		
1D-5. Cleaning of Reflectors	4		
E. Light Fixture Tag #H-103 (qty. at bridge 8):			
1E-1. Replacement of lamp	2		
1E-2. Replacement of lens	2		
1E-3. Replacement of ballasts	2		
1E-4. Cleaning of exterior lens	16		
1E-5. Cleaning of Reflectors	2		
ALL QUANTITIES ARE APPROXIMATE. A CONTRACT, IF ANY, SHALL BE FOR (2) YEARS	R A PERIOD OF TWO	DELIVERY (Days)	PAYMENT DISCOUNT
ALL OF THIS BOUND INFORMATION MUST BE KEPT INTACT AND TOGE ADDENDA ISSUED, MUST BE RETURNED WITH THE BID. OTHERWISE,			% Days
CONSIDERED INFORMAL		FOR PURC	CHASING USE ONLY

BID — SCHEDULE OF ITEMS

City of Cleveland

Division of Purchases And Supplies

128 City Hall

Cleveland, Ohio 44114

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TITLE OF BID

Labor and Materials Necessary to Repair and Maintain Decorative and Special Lighting on Bridges and Wyland Whale Mural Park 2023

DESCRIPTION	QUANTITY	UNIT PRICE	EXTEN	ISION
TEM NO. 1: Willow Street Bridge (Cont'd)			2 (10)	
F. Light Fixture Tag #H-104 (qty. at bridge 3):				
1F-1. Replacement of lamp	2			
1F-2. Replacement of lens	2			
1F-3. Replacement of ballasts	2			
1F-4. Cleaning of exterior lens	6			
1F-5. Cleaning of Reflectors	2			
G. Light Fixture Tag #H-105 (qty. at bridge 4):				
1G-1. Replacement of lamp	2			
1G-2. Replacement of lens	2			· · · · · · · · · · · · · · · · · · ·
1G-3. Replacement of ballasts	2		***************************************	
1G-4. Cleaning of exterior lens	8			
1G-5. Cleaning of Reflectors	2			
H. Light Fixture Tag #H-106 (qty. at bridge 8):				
1H-1. Replacement of lamp	2			
1H-2. Replacement of lens	2			
1H-3. Replacement of ballasts	2			
1H-4. Cleaning of exterior lens	16			
1H-5. Cleaning of Reflectors	2			
I. Light Fixture Tag #H-107 (qty. at bridge 8):				
1I-1. Replacement of lamp	2			
1I-2. Replacement of lens	2			
1I-3. Replacement of ballasts	2			
1I-4. Cleaning of exterior lens	16			
1I-5. Cleaning of Reflectors	2			·
J. Light Fixture Tag #H-107a (qty at bridge 4):				
1J-1. Replacement of lamp	2			
1J-2. Replacement of lens	2			
1J-3. Replacement of ballasts	2			
	8			
1J-4. Cleaning of exterior lens			***************************************	····
1J-5. Cleaning of Reflectors	2			
EM NO. 2: Main Avenue Bridge A. Light Fixture Tag #H-100 (qty. at bridge 40):				
2A-1. Replacement of lamp	10			
	10			
2A-2. Replacement of lens	2			
2A-3. Replacement of ballasts	2			
2A-4. Cleaning of exterior lens	80			
2A-5. Cleaning of Reflectors	10			
B. Light Fixture Tag #H-101 (qty. at bridge 12):				
2B-1. Replacement of lamp	2			
2B-2. Replacement of lens	2			
2B-3. Replacement of ballasts	2			
2B-4. Cleaning of exterior lens	24			
2B-5. Cleaning of Reflectors	2			
ALL QUANTITIES ARE APPROXIMATE. A CONTRACT, IF ANY, SHALL BE FOR A (2) YEARS		DELIVERY (Days)	PAYMENT	DISCOUNT
ALL OF THIS BOUND INFORMATION MUST BE KEPT INTACT AND TOGETHE ADDENDA ISSUED, MUST BE RETURNED WITH THE BID. OTHERWISE, THE			%	Day
CONSIDERED INFORMAL		FOR PURC	HASING USE (ONLY

BID — SCHEDULE OF ITEMS

City of Cleveland

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TITLE OF BID

Labor and Materials Necessary to Repair and Maintain Decorative and Special Lighting on Bridges and Wyland Whale Mural Park 2023

A. Light Fixture Tag #H-100 (qty, at bridge 16): 3A-1. Replacement of lamp 3A-2. Replacement of lens 3A-3. Replacement of ballasts 2 3A-3. Replacement of ballasts 2 3A-3. Replacement of ballasts 32 3A-4. Cleaning of exterior lens 32 3A-5. Cleaning of exterior lens 3A-5. Cleaning of exterior lens 3B-1. Replacement of lamp 6 3B-2. Replacement of lamp 6 3B-2. Replacement of lens 3B-3. Replacement of lens 3B-3. Replacement of lens 3B-4. Cleaning of exterior lens 3B-4. Cleaning of exterior lens 3B-5. Cleaning of Reflectors 6 6 6 6 6 7 6 7 6 7 7 8 7 8 7 8 8 8 8 8	DESCRIPTION	QUANTITY	UNIT PRICE	EXTEN	SION
3A-1, Replacement of lamp	TEM NO. 3: Center Street Bridge				
3A-3. Replacement of lens 2 3A-3. Replacement of ballasts 2 3A-4. Cleaning of exterior lens 32 3A-5. Cleaning of Reflectors 4 4 3A-5. Cleaning of Reflectors 4 3A-5. Cleaning of Reflectors 4 3A-5. Cleaning of Reflectors 5 5 5 5 5 5 5 5 5	A. Light Fixture Tag #H-100 (qty. at bridge 16):				
3A-3. Replacement of ballasts 2 3A-4. Cleaning of exterior lens 32 3A-5. Cleaning of Reflectors 4 8. Light Fixture Tag #H-101 (qty at bridge 24): 3B-1. Replacement of lamp 6 3B-2. Replacement of ballasts 2 3B-3. Replacement of ballasts 2 3B-3. Replacement of ballasts 2 3B-4. Cleaning of exterior lens 4 3B-5. Cleaning of Reflectors 6 5EM NO. 4: Bascule #1 Bridge A. Light Fixture Tag #A-100 (qty, at bridge 11): 4A-1. Replacement of lens - clear 2 4A-2. Replacement of lens - clear 2 4A-3. Replacement of lens - clear 2 4A-4. Replacement of lens - clear 2 4A-4. Replacement of ballasts 2 4A-5. Cleaning of exterior lens 12 4A-6. Cleaning of Reflectors 12 4B-6. Cleaning of Reflectors 12 4B-7. Replacement of lens - clear 2 4B-8. Replacement of lens - clear 3 4B-9. Cleaning of exterior lens 4 4B-9. Replacement of lens - clear 4 4B-1. Replacement of lens - clear 2 4B-3. Replacement of lens - clear 3 4B-4. Replacement of lens - clear 4 4B-3. Replacement of lens - clear 4 4B-4. Replacement of lens - clear 2 4B-4. Replacement of lens - clear 3 4B-5. Cleaning of exterior lens 4 4B-6. Cleaning of Reflectors 2 4B-7. Cleaning of Reflectors 2 4B-8. Cleaning of Reflectors 2 4B-9. Cleaning of Reflectors 3 4B-9. Cleaning of Reflectors 4 4C-2. Replacement of lens - clear 4 4C-3. Replacement of lens - clear 4 4C-3. Replacement of lens - clear 4 4C-4. Replacement of lens - clear 4 4C-5. Cleaning of Reflectors 2 4C-6. Cleaning of Reflectors 2 4C-7. Replacement of lens - clear 4 4C-9. Replacement of lens - clear 4 4D-9. Replacement of lens	3A-1. Replacement of lamp	4			
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3A-5. Cleaning of Reflectors 8. Light Fixture Tag #H-101 (qty at bridge 24): 3B-1. Replacement of lens 3B-2. Replacement of lens 3B-3. Replacement of lens 3B-3. Replacement of lens 3B-4. Cleaning of exterior lens 4B-3. Seplacement of ballasts 3B-4. Cleaning of exterior lens 4B-3. Seplacement of lens 4B-4. Replacement of lens 4B-4. Replacement of lens 4B-4. Replacement of lens 4A-1. Replacement of lens 4A-2. Replacement of lens - clear 4A-2. Replacement of lens - clear 4A-3. Replacement of lens - clear 4A-4. Replacement of lens - clear 4A-4. Replacement of lens - clear 4A-5. Cleaning of exterior lens 4B-6. Cleaning of exterior lens 4B-1. Replacement of lens - clear 4B-1. Replacement of lens - clear 4B-3. Replacement of lens - clear 4B-4. Replacement of lens - clear 4B-5. Cleaning of exterior lens 4B-6. Cleaning of Reflectors 2 C. Light Fixture Tag #A-102 (qty. at bridge 5): 4C-1. Replacement of lens - clear 4C-2. Replacement of lens - clear 4C-2. Replacement of lens - clear 4C-2. Replacement of lens - clear 4C-3. Replacement of lens - clear 4C-4. Replacement of lens - clear 4C-5. Cleaning of Reflectors 4C-6. Cleaning of Reflectors 4C-6. Cleaning of Reflectors 4C-6. Cleaning of Reflectors 4C-6. Cleaning of Reflectors 4C-7. Replacement of lens - clear 4C-8. Replacement of lens - clear 4C-9. Replacement of lens -	3A-3. Replacement of ballasts	2			
B. Light Fixture Tag #H-101 (qty at bridge 24): 38-1. Replacement of lamp 6 38-2. Replacement of pallasts 2 38-3. Replacement of ballasts 2 38-4. Cleaning of Reflectors 6 5 EM NO. 4: Bascule #1 Bridge A. Light Fixture Tag #A-100 (qty. at bridge 11): 4A-1. Replacement of lens — color 4A-2. Replacement of lens — color 2 4A-3. Replacement of lens — color 2 4A-4. Replacement of lens — color 2 4A-4. Replacement of lens — color 2 4A-6. Cleaning of Reflectors 2 4B-1. Replacement of lamp 2 4B-2. Replacement of lamp 2 4B-2. Replacement of lens — color 2 4B-3. Replacement of lens — color 2 4B-4. Replacement of lens — color 2 4B-4. Replacement of lens — color 2 4B-6. Cleaning of Reflectors 2 4B-7. Cleaning of exterior lens 4B-8. Cleaning of exterior lens 4B-8. Cleaning of exterior lens 4B-8. Cleaning of exterior lens 4B-9. Cleaning of exterior lens 4B-1. Replacement of lens — color 2 4B-1. Replacement of lens — color 2 4B-2. Replacement of lens — color 2 4B-3. Replacement of lens — color 2 4B-4. Cleaning of exterior lens 4B-6. Cleaning of exterior lens 4C-1. Replacement of lens — color 2 4C-2. Replacement of lens — clear 4C-3. Replacement of lens — color 4C-4. Replacement of lens — color 4C-4. Replacement of lens — color 4C-5. Cleaning of exterior lens 4C-6. Cleaning of Reflectors 4D-6. Cleaning of Reflectors 4D-7. Replacement of lang 4D-1. Replacement of lang 4D-2. Replacement of lang 4D-1. Replacement of lens — color 4D-3. Replacement of lens — color 4D-4. Replacement of lens — color 4D-6. Cleaning of Reflectors 4D-6	3A-4. Cleaning of exterior lens	32			
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3B-3. Replacement of ballasts 2 3B-4. Cleaning of exterior lens 48 3B-5. Cleaning of Reflectors 6 FM NO. 4: Bascule #1 Bridge A. Light Fixture Tag #A-100 (qty. at bridge 11): 4A-1. Replacement of lamp 2 4A-2. Replacement of lens – clear 2 4A-3. Replacement of lens – clear 2 4A-4. Replacement of lens – clor 2 4A-4. Replacement of ballasts 2 4A-5. Cleaning of exterior lens 12 4A-6. Cleaning of Reflectors 2 B. Light Fixture Tag #A-101 (qty. at bridge 6): 4B-1. Replacement of lamp 2 4B-2. Replacement of lens – cloar 2 4B-3. Replacement of lens – cloar 2 4B-3. Replacement of lens – cloar 2 4B-4. Replacement of lens – cloar 2 4B-5. Cleaning of Reflectors 2 4B-6. Cleaning of Reflectors 2 4B-7. Replacement of lens – cloar 3 4B-6. Cleaning of Reflectors 3 4B-7. Cleaning of Reflectors 3 4B-7. Cleaning of Reflectors 3 4B-8. Cleaning of Reflectors 3 4B-8. Cleaning of Reflectors 3 4B-9. Cleaning of Reflectors 3 4C-1. Replacement of lamp 2 4C-2. Replacement of lamp 2 4C-2. Replacement of lens – clear 3 4C-3. Replacement of lens – clear 4 4C-5. Cleaning of Reflectors 3 4C-5. Cleaning of Reflectors 3 4C-5. Cleaning of Reflectors 3 4D-1. Replacement of lens – clear 4 4D-3. Replacement of lens – clear 4 4D-3. Replacement of lens – clear 4 4D-4. Replacement of lens – clear 4 4D-5. Cleaning of Reflectors 4 4D-6. Cleaning of Reflectors 5 4C-6. Cleaning of Refle	3B-1. Replacement of lamp	6			
38-4. Cleaning of exterior lens	3B-2. Replacement of lens				
38-5. Cleaning of Reflectors EM NO. 4: Bascule #1 Bridge A. Light Fixture Tag #A-100 (qty. at bridge 11): 4A-1. Replacement of lamp 2	3B-3. Replacement of ballasts	2			
38-5. Cleaning of Reflectors EM NO. 4: Bascule #1 Bridge A. Light Fixture Tag #A-100 (qty. at bridge 11): 4A-1. Replacement of lamp 4A-2. Replacement of lens – clear 4A-3. Replacement of lens – clear 4A-4. Replacement of ballasts 2 4A-4. Replacement of ballasts 2 4A-5. Cleaning of exterior lens 4A-6. Cleaning of exterior lens 4B-1. Replacement of lamp 2 4B-2. Replacement of lamp 2 4B-3. Replacement of lens – clear 4B-3. Replacement of lens – clear 4B-3. Replacement of lens – clear 4B-4. Replacement of lens – clear 4B-5. Cleaning of exterior lens 4B-6. Cleaning of exterior lens 4B-6. Cleaning of Reflectors 2 C. Light Fixture Tag #A-102 (qty. at bridge 5): 4C-1. Replacement of lens – clear 4C-3. Replacement of lens – clear 4C-3. Replacement of lens – clear 4C-4. Replacement of lens – clear 4C-5. Cleaning of exterior lens 4C-6. Cleaning of exterior lens 4C-6. Cleaning of Reflectors 2 D. Light Fixture Tag #A-102 (qty. at bridge 3) 4D-1. Replacement of lens – clear 4D-3. Replacement of lens – clear 4D-3. Replacement of lens – clear 4D-3. Replacement of lens – clear 4D-4. Replacement of lens – clear 4D-5. Cleaning of Reflectors 2 ALL QUANITITIES ARE APPROXIMATE. A CONTRACT, IF ANY, SHALL BE FOR A PERIOD OF TWO (Days) ALL OF THIS BOUND INFORMATION MUST BE KEPT INTACT AND TOGETHER WITH ANY	3B-4. Cleaning of exterior lens	48			
### A-100 (qty, at bridge 11): ### A-10 (qty, at bridge 11): ### A-1. Replacement of lems — clear ### A-2. Replacement of lens — color ### A-3. Replacement of lens — color ### A-4. Replacement of bellasts ### A-5. Cleaning of exterior lens ### A-6. Cleaning of Reflectors ### B-1. Replacement of lens — color ### B-2. Replacement of lens — color ### B-3. Replacement of lens — color ### B-4. Replacement of lens — color ### B-5. Replacement of lens — color ### B-5. Cleaning of Reflectors ###					
A. Light Fixture Tag #A-100 (qty. at bridge 11): 4A-1. Replacement of lamp					
4A-1. Replacement of lamp					20-14-09-18-18-18-18-18-18-18-18-18-18-18-18-18-
4A-2. Replacement of lens – clear 4A-3. Replacement of lens – color 2		2			····
4A-3. Replacement of lens – color 2 4A-4. Replacement of ballasts 2 4A-5. Cleaning of exterior lens 12 4A-6. Cleaning of Reflectors 2 B. Light Fixture Tag #A-101 (qty. at bridge 6): 4B-1. Replacement of lamp 2 4B-2. Replacement of lens – clear 2 4B-3. Replacement of lens – clear 2 4B-3. Replacement of lens – color 2 4B-4. Replacement of ballasts 2 4B-5. Cleaning of exterior lens 6 4B-6. Cleaning of Reflectors 2 4B-6. Cleaning of Reflectors 2 4C-1. Replacement of lamp 2 4C-2. Replacement of lamp 2 4C-2. Replacement of lens – clear 2 4C-3. Replacement of lens – clear 2 4C-3. Replacement of lens – color 2 4C-4. Replacement of ballasts 2 4C-5. Cleaning of exterior lens 6 4C-6. Cleaning of Reflectors 2 4C-5. Cleaning of Reflectors 2 4C-5. Cleaning of Reflectors 2 4C-5. Cleaning of Reflectors 2 4C-6. Cleaning of Reflectors 2 4D-1. Replacement of lens – clear 2 4D-2. Replacement of lens – clear 2 4D-3. Replacement of lens – clear 3 4D-1. Replacement of lens – clear 4 4D-3. Replacement of lens – clear 4 4D-4. Replacement of lens – clear 4 4D-5. Cleaning of Reflectors 4 4D-6. Cleaning of Reflectors 4 4D-7. Cleaning of Reflectors 4 4D-8. Cleaning of Reflectors 4 4D-9.					
4A-4. Replacement of ballasts 4A-5. Cleaning of exterior lens 4A-6. Cleaning of Reflectors 2					
4A-5. Cleaning of exterior lens					
## A-6. Cleaning of Reflectors ## B. Light Fixture Tag ## A-101 (qty. at bridge 6): ## B-1. Replacement of lamp ## B-2. Replacement of lamp ## B-3. Replacement of lens – color ## B-4. Replacement of ballasts ## B-5. Cleaning of exterior lens ## B-6. Cleaning of Reflectors ## B-6. Cleaning of Reflectors ## B-7. Replacement of lamp ## B-7. Replacement of lamp ## B-7. Replacement of lens – color ## B-7. Replacement of lens – color ## B-7. Replacement of lens – color ## B-7. Replacement of ballasts ## B-7. CLeaning of Reflectors ## B-7. CLeaning of Reflect					
### B. Light Fixture Tag #A-101 (qty. at bridge 6): 4B-1. Replacement of lamp 4B-2. Replacement of lens – clear 4B-3. Replacement of lens – color 4B-4. Replacement of ballasts 4B-5. Cleaning of exterior lens 4B-6. Cleaning of Reflectors 2					
4B-1. Replacement of lamp 4B-2. Replacement of lens - clear 4B-3. Replacement of lens - color 4B-4. Replacement of lens - color 4B-4. Replacement of ballasts 4B-5. Cleaning of exterior lens 4B-6. Cleaning of Reflectors 2			I	<u> </u>	
4B-2. Replacement of lens – clear 4B-3. Replacement of lens – color 4B-4. Replacement of ballasts 2 4B-5. Cleaning of exterior lens 6 4B-6. Cleaning of Reflectors 2 4C-1. Replacement of lamp 4C-2. Replacement of lens – clear 4C-3. Replacement of lens – color 4C-4. Replacement of ballasts 2 4C-5. Cleaning of exterior lens 6 4C-6. Cleaning of exterior lens 6 4C-6. Cleaning of Reflectors 2 4D-1. Replacement of lamp 4D-2. Replacement of lamp 4D-1. Replacement of lens – clear 4D-3. Replacement of lens – clear 4D-6. Cleaning of Reflectors 4D-7. Replacement of lamp 4D-8. Replacement of lens – clear 4D-9. Replacement of lens – clear 4D-1. Replacement of lens – clear 4D-2. Replacement of lens – clear 4D-3. Replacement of lens – clear 4D-4. Replacement of lens – color 4D-4. Replacement of lens – color 4D-4. Replacement of lens – color 4D-5. Cleaning of exterior lens 4D-6. Cleaning of Reflectors 4D-7. Cleaning of Reflectors 4D-8. Cleaning of Reflectors 4D-8. Cleaning of Reflectors 4D-9. Cleaning of Reflectors 4D-1. Replacement of Reflectors 4D-1. Replacement of Lens – color 4D-1. Replacement of Lens – color 4D-2. Replacement of Lens – color 4D-3. Replacement of Lens – color 4D-4. Replacement of Lens – color 4D-5. Cleaning of exterior lens 4D-6. Cleaning of Reflectors 4D-7. Replacement of Lens – color 4D-8. Replacement of Lens – color 4D-9. Replacement of Lens – color 4D-1. Replacement of Lens – color 4D-1. Replacement of Lens – color 4D-1. Replacement of Lens – color 4D-2. Replacement of Lens – color 4D-3. Replacement of Lens – color 4D-4. Replacement of Lens – color 4D-5. Cleaning of Reflectors 4D-6. Cleaning of Reflectors 4D-7. Replacement of Lens – color 4D-8. Replacement of Lens – color 4D-9. Replacement of Lens – color 4D-1. Replacement of Lens – color 4D-1. Replacement of Lens – colo		7	l	1	
4B-3. Replacement of lens – color 4B-4. Replacement of ballasts 4B-5. Cleaning of exterior lens 4B-6. Cleaning of Reflectors 2 C. Light Fixture Tag #A-102 (qty. at bridge 5): 4C-1. Replacement of lamp 4C-2. Replacement of lens – clear 4C-3. Replacement of lens – color 4C-4. Replacement of ballasts 2 4C-5. Cleaning of exterior lens 6 4C-6. Cleaning of Reflectors 2 D. Light Fixture Tag #A-102a (qty. at bridge 3) 4D-1. Replacement of lamp 2 4D-2. Replacement of lens – color 4D-3. Replacement of lens – color 4D-4. Replacement of lens – color 4D-5. Cleaning of exterior lens 4D-6. Cleaning of Reflectors 4D-7. Replacement of lens – color 4D-8. Replacement of lens – color 4D-1. Replacement of lens – color 4D-2. Replacement of lens – color 4D-3. Replacement of lens – color 4D-4. Replacement of lens – color 4D-5. Cleaning of exterior lens 4D-6. Cleaning of exterior lens 4D-6. Cleaning of Reflectors 4D-7. Cleaning of Reflectors 4D-8. Cleaning of Reflectors 4D-9. Cleaning of Reflectors 4D-1. Replacement of Ballasts 4D-2. Replacement of Ballasts 4D-3. Replacement of Ballasts 4D-4. Replacement of Ballasts 4D-5. Cleaning of exterior lens 4D-6. Cleaning of exterior lens 4D-7. Cleaning of exterior lens 4D-8. Cleaning of Reflectors 4D-8. Cleaning of Reflectors 4D-9. Cleaning of R					
### 4B-4. Replacement of ballasts ### 4B-5. Cleaning of exterior lens ### 4B-6. Cleaning of Reflectors ### C. Light Fixture Tag ## -102 (qty. at bridge 5): ### 4C-1. Replacement of lamp ### 4C-2. Replacement of lens – clear ### 4C-3. Replacement of lens – color ### 4C-4. Replacement of ballasts ### 4C-5. Cleaning of exterior lens ### 4C-6. Cleaning of Reflectors ### D. Light Fixture Tag ## -102a (qty. at bridge 3) ### 4D-1. Replacement of lamp ### 4D-2. Replacement of lens – clear ### 4D-3. Replacement of lens – color ### 4D-4. Replacement of lens – color ### 4D-5. Cleaning of exterior lens ### 4D-6. Cleaning of exterior lens ### 4D-6. Cleaning of Reflectors #					
4B-5. Cleaning of exterior lens 4B-6. Cleaning of Reflectors 2 C. Light Fixture Tag #A-102 (qty. at bridge 5): 4C-1. Replacement of lamp 2 4C-2. Replacement of lens – clear 2 4C-3. Replacement of lens – color 2 4C-4. Replacement of ballasts 2 4C-5. Cleaning of exterior lens 6 4C-6. Cleaning of Reflectors 2 D. Light Fixture Tag #A-102a (qty. at bridge 3) 4D-1. Replacement of lamp 2 4D-2. Replacement of lens – clear 2 4D-3. Replacement of lens – clear 2 4D-3. Replacement of lens – clear 4D-3. Replacement of lens – clear 4D-6. Cleaning of exterior lens 4D-6. Cleaning of exterior lens 4D-6. Cleaning of Reflectors 4D-6. Cleaning of Reflectors 4D-7. Cleaning of Reflectors 4D-8. Cleaning of Reflectors 4D-9.					
4B-6. Cleaning of Reflectors C. Light Fixture Tag #A-102 (qty. at bridge 5): 4C-1. Replacement of lamp 4C-2. Replacement of lens – clear 4C-3. Replacement of lens – color 4C-4. Replacement of ballasts 4C-5. Cleaning of exterior lens 4C-6. Cleaning of Reflectors D. Light Fixture Tag #A-102a (qty. at bridge 3) 4D-1. Replacement of lamp 2 4D-2. Replacement of lens – clear 4D-3. Replacement of lens – color 4D-4. Replacement of lens – color 4D-4. Replacement of ballasts 2 4D-5. Cleaning of exterior lens 4D-6. Cleaning of Reflectors 2 ALL QUANTITIES ARE APPROXIMATE. A CONTRACT, IF ANY, SHALL BE FOR A PERIOD OF TWO (2) YEARS ALL OF THIS BOUND INFORMATION MUST BE KEPT INTACT AND TOGETHER WITH ANY					
C. Light Fixture Tag #A-102 (qty. at bridge 5): 4C-1. Replacement of lamp 2 4C-2. Replacement of lens – clear 2 4C-3. Replacement of lens – color 2 4C-4. Replacement of ballasts 2 4C-5. Cleaning of exterior lens 6 4C-6. Cleaning of Reflectors 2 D. Light Fixture Tag #A-102a (qty. at bridge 3) 4D-1. Replacement of lamp 2 4D-2. Replacement of lens – clear 2 4D-3. Replacement of lens – clear 2 4D-4. Replacement of lens – color 2 4D-4. Replacement of lens – color 2 4D-6. Cleaning of exterior lens 4D-6. Cleaning of exterior lens 4D-6. Cleaning of Reflectors 2 ALL QUANTITIES ARE APPROXIMATE. A CONTRACT, IF ANY, SHALL BE FOR A PERIOD OF TWO (2) YEARS ALL OF THIS BOUND INFORMATION MUST BE KEPT INTACT AND TOGETHER WITH ANY			 	<u> </u>	
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4D-3. Replacement of lens – color 4D-4. Replacement of ballasts 2 4D-5. Cleaning of exterior lens 4D-6. Cleaning of Reflectors 4D-6. Cleaning of Reflec					
4D-4. Replacement of ballasts 4D-5. Cleaning of exterior lens 4D-6. Cleaning of Reflectors ALL QUANTITIES ARE APPROXIMATE. A CONTRACT, IF ANY, SHALL BE FOR A PERIOD OF TWO (2) YEARS ALL OF THIS BOUND INFORMATION MUST BE KEPT INTACT AND TOGETHER WITH ANY 2 PAYMENT DISCOUNT (Days)	· · · · · · · · · · · · · · · · · · ·				
4D-5. Cleaning of exterior lens 4 4D-6. Cleaning of Reflectors 2 ALL QUANTITIES ARE APPROXIMATE. A CONTRACT, IF ANY, SHALL BE FOR A PERIOD OF TWO (2) YEARS (Days) ALL OF THIS BOUND INFORMATION MUST BE KEPT INTACT AND TOGETHER WITH ANY					
4D-6. Cleaning of Reflectors 2 ALL QUANTITIES ARE APPROXIMATE. A CONTRACT, IF ANY, SHALL BE FOR A PERIOD OF TWO (2) YEARS ALL OF THIS BOUND INFORMATION MUST BE KEPT INTACT AND TOGETHER WITH ANY 2 PAYMENT DISCOUN					
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(2) YEARS (Days) PAYMENT DISCOUN ALL OF THIS BOUND INFORMATION MUST BE KEPT INTACT AND TOGETHER WITH ANY				ļ	
1 0/- 120	(2) YEARS			PAYMENT D	ISCOUNT
				%	Days

BID — SCHEDULE OF ITEMS

City of Cleveland

Division of Purchases And Supplies

128 City Hall Cleveland, Ohio 44114 COMPLETE & SIGN BELOW

AUTHORIZED SIGNATURE

TITLE OF BID

Labor and Materials Necessary to Repair and Maintain Decorative and Special Lighting on Bridges and Wyland Whale Mural Park 2023

DESCRIPTION	QUANTITY	UNIT PRICE	EXTENSION
TEM NO. 4: Bascule #1 Bridge (Cont'd)			
E. Light Fixture Tag #A-103 (qty. at bridge 4):			
4E-1. Replacement of lamp	2		
4E-2. Replacement of lens – clear	2		
4E-3. Replacement of lens – color	2		
4E-4. Replacement of ballasts	2		
4E-5. Cleaning of exterior lens	4		
4E-6. Cleaning of Reflectors	2		
F. Light Fixture Tag #A-103a (qty. at bridge 2):			
4F-1. Replacement of lamp	2		
4F-2. Replacement of lens – clear	2		
4F-3. Replacement of lens – color	2		
4F-4. Replacement of ballasts	2		
4F-5. Cleaning of exterior lens	2		
4F-6. Cleaning of Reflectors	2		
G. Light Fixture Tag #A-104 (qty. at bridge 4):			
4G-1. Replacement of lamp	6		
4G-2. Replacement of lens	2		
4G-3. Replacement of ballasts	2		
4G-4. Cleaning of exterior lens	16		
4G-5. Cleaning of Reflectors	6		
H. Light Fixture Tag #A-104a (qty. at bridge 2):			
4H-1. Replacement of lamp	2		
4H-2. Replacement of lens	2		
4H-3. Replacement of ballasts	2		
4H-4. Cleaning of exterior lens	2		
4H-5. Cleaning of Reflectors	2		
I. Light Fixture Tag #A-105 (qty. at bridge 5):			
4I-1. Replacement of lamp	2		
4I-2. Replacement of lens – clear	2		
4I-3. Replacement of lens – color	2		
4I-4. Replacement of ballasts	2		
4I-5. Cleaning of exterior lens	6		
4I-6. Cleaning of Reflectors	2		
J. Light Fixture Tag #A-105a (qty. at bridge 3):			
4J-1. Replacement of lamp	2		
4J-2. Replacement of lens – clear	2		
4J-3. Replacement of lens – color	2		
4J-4. Replacement of ballasts	2		
4J-5. Cleaning of exterior lens	2		
4J-6. Cleaning of Reflectors	2		
ALL QUANTITIES ARE APPROXIMATE. A CONTRACT, IF ANY, SHALL BE (2) YEARS	FOR A PERIOD OF TWO	DELIVERY (Days)	PAYMENT DISCOUN
ALL OF THIS BOUND INFORMATION MUST BE KEPT INTACT AND TO ADDENDA ISSUED, MUST BE RETURNED WITH THE BID. OTHERWIS			% Day
CONSIDERED INFORMAL	,	FOR PUR	CHASING USE ONLY

BID — SCHEDULE OF ITEMS City of Cleveland

Division of Purchases And Supplies 128 City Hall

Cleveland, Ohio 44114

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COMPLETE & SIGN

TITLE OF BID

Labor and Materials Necessary to Repair and Maintain Decorative and Special Lighting on Bridges and

DECORPORTAN		I		
DESCRIPTION	QUANTITY	UNIT PRICE	EXTER	NSION
ITEM NO. 4: Bascule #1 Bridge (Cont'd)				
K. Light Fixture Tag #A-106 (qty. at bridge 4):			Г	
4K-1. Replacement of lamp	2		<u> </u>	
4K-2. Replacement of lens – clear	2		!	
4K-3. Replacement of lens – color	2			
4K-4. Replacement of ballasts	2			
4K-5. Cleaning of exterior lens	4			
4K-6. Cleaning of Reflectors	2			
L. Light Fixture Tag #A-106a (qty. at bridge 2):		T	T	
4L-1. Replacement of lamp	2		<u> </u>	
4L-2. Replacement of lens – clear	2			
4L-3. Replacement of lens – color	2			
4L-4. Replacement of ballasts	2			
4L-5. Cleaning of exterior lens	2			
4L-6. Cleaning of Reflectors	2		<u> </u>	
M. Light Fixture Tag #A-107 (qty. at bridge 4):			1	
4M-1. Replacement of lamp	2			
4M-2. Replacement of lens	2			
4M-3. Replacement of ballasts	2			
4M-4. Cleaning of exterior lens	4			
4M-5. Cleaning of Reflectors	2			
N. Light Fixture Tag #A-107a (qty. at bridge 2):		-		
4N-1. Replacement of lamp	2			
4N-2. Replacement of lens	2			
4N-3. Replacement of ballasts	2			
4N-4. Cleaning of exterior lens	2			
4N-5. Cleaning of Reflectors	2			
O. Light Fixture Tag #A-108 (qty. at bridge 5):				
4O-1. Replacement of lamp	2			
4O-2. Replacement of lens – clear	2			
4O-3. Replacement of lens – color	2			
40-4. Replacement of ballasts	2			
40-5. Cleaning of exterior lens	6			
40-6. Cleaning of Reflectors	2			
P. Light Fixture Tag #A-108a (qty. at bridge 3):				
4P-1. Replacement of lamp	2			
4P-2. Replacement of lens – clear	2			
4P-3. Replacement of lens – color	2			
4P-4. Replacement of ballasts	2			
4P-5. Cleaning of exterior lens	4			
4P-6. Cleaning of Reflectors	2			
ALL QUANTITIES ARE APPROXIMATE. A CONTRACT, IF ANY, SHALL BE FOR	A PERIOD OF TWO	DELIVERY	DAVMENT	DISCOUNT
(2) YEARS		(Days)	PATMENT	DISCOUNT
ALL OF THIS BOUND INFORMATION MUST BE KEPT INTACT AND TOGE ADDENDA ISSUED, MUST BE RETURNED WITH THE BID. OTHERWISE,			%	Days
CONSIDERED INFORMAL		FOR PUR	CHASING USE	ONLY

BID — SCHEDULE OF ITEMS

City of Cleveland

Division of Purchases And Supplies

128 City Hall

Cleveland, Ohio 44114

BIDDER MUST COMPLETE & SIGN BELOW

AUTHORIZED SIGNATURE

TITLE OF BID

Labor and Materials Necessary to Repair and Maintain Decorative and Special Lighting on Bridges and

Wyland Whale Mural Park 2023

	QUANTITY	UNIT PRICE	EXTENSION
EM NO. 4: Bascule #1 Bridge (Cont'd)			1
Q. Light Fixture Tag #A-109 (qty. at bridge 4):			
4Q-1. Replacement of lamp	2		
4Q-2. Replacement of lens – clear	2		
4Q-3. Replacement of lens – color	2		
4Q-4. Replacement of ballasts	2		
4Q-5. Cleaning of exterior lens	4		
4Q-6. Cleaning of Reflectors	2		
R. Light Fixture Tag #A-109a (qty. at bridge 2):			
4R-1. Replacement of lamp	2		
4R-2. Replacement of lens – clear	2		
4R-3. Replacement of lens – color	2		
4R-4. Replacement of ballasts	2		
4R-5. Cleaning of exterior lens	2		
4R-6. Cleaning of Reflectors	2		
S. Light Fixture Tag #A-110 (qty. at bridge 4):			L
4S-1. Replacement of lamp	2		
4S-2. Replacement of lens	2		
4S-3. Replacement of ballasts	2		
4S-4. Cleaning of exterior lens	4		
4S-5. Cleaning of Reflectors	2		
T. Light Fixture Tag #A-110a (qty. at bridge 2):			L
4T-1. Replacement of lamp	2		
4T-2. Replacement of lens	2		
4T-3. Replacement of ballasts	2		
4T-4. Cleaning of exterior lens	2		
4T-5. Cleaning of Reflectors	2		
U. Light Fixture Tag #A-111 (qty. at bridge 6):		<u> </u>	<u></u>
4U-1. Replacement of lamp	2		
4U-2. Replacement of lens – clear	2		
4U-3. Replacement of lens – color	2		
4U-4. Replacement of ballasts	2		
4U-5. Cleaning of exterior lens	6		
4U-6. Cleaning of Reflectors	2		
V. Light Fixture Tag #A-112 (qty. at bridge 11):			
4V-1. Replacement of lamp	2		
4V-2. Replacement of lens – clear	2		
4V-3. Replacement of lens – color	2		
4V-4. Replacement of ballasts	2		
4V-5. Cleaning of exterior lens	12		
4V-6. Cleaning of Reflectors	2		
LL QUANTITIES ARE APPROXIMATE. A CONTRACT, IF ANY, SHALL BE FO		DELIVERY	
(2) YEARS	MATERIAL OF TWO	(Days)	PAYMENT DISCOUN
ALL OF THIS BOUND INFORMATION MUST BE KEPT INTACT AND TOG	ETHER WITH ANY		0/ -
ADDENDA ISSUED, MUST BE RETURNED WITH THE BID. OTHERWISE			% Day

${\bf BID-SCHEDULE\ OF\ ITEMS}$ City of Cleveland

Division of Purchases And Supplies 128 City Hall

Cleveland, Ohio 44114

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AUTHORIZED SIGNATURE

TITLE OF BID

Labor and Materials Necessary to Repair and Maintain Decorative and Special Lighting on Bridges and Wyland Whale Mural Park 2023

DESCRIPTION	QUANTITY	UNIT PRICE	EXTENS	ION
EM NO. 4: Bascule #1 Bridge (Cont'd)				
W. Light Fixture Tag #A-113 (qty. at bridge 2):				
4W-1. Replacement of lamp	2			
4W-2. Replacement of lens – clear	2			
4W-3. Replacement of lens – color	2			***************************************
4W-4. Replacement of ballasts	2			
4W-5. Cleaning of exterior lens	2			
4W-6. Cleaning of Reflectors	2			
X Light Fixture Tag #H-100 (qty. at bridge 10):			L	
4X-1. Replacement of lamp	2			
4X-2. Replacement of lens	2			
4X-3. Replacement of ballasts	2			
4X-4. Cleaning of exterior lens	10			
4X-5. Cleaning of Reflectors	2			
Y Light Fixture Tag #H-101 (qty. at bridge 6):				
4Y-1. Replacement of lamp	2			
4Y-2. Replacement of lens	2			
4Y-3. Replacement of ballasts	2			
4Y-4. Cleaning of exterior lens	6			
4Y-5. Cleaning of Reflectors	2			
Z. Light Fixture Tag #H-102 (qty. at bridge 14):			<u> </u>	
4Z-1. Replacement of lamp	2			
4Z-2. Replacement of lens	2			
4Z-3. Replacement of ballasts	2		· · · · · · · · · · · · · · · · · · ·	
4Z-4. Cleaning of exterior lens	14			
4Z-5. Cleaning of Reflectors	2			
AA. Light Fixture Tag #H-103 (qty. at bridge 2):				
4AA-1. Replacement of lamp	2			
4AA-2. Replacement of lens	2			
4AA-3. Replacement of ballasts	2			
4AA-4. Cleaning of exterior lens	2	······································		
4AA-5. Cleaning of Reflectors	2			
EM NO. 5: Bascule #2 Bridge				
A. Light Fixture Tag #H-100 (qty. at bridge 12):				
5A-1. Replacement of lamp	2			
5A-2. Replacement of lens – clear	2			
5A-3. Replacement of lens – color	2			
5A-4. Replacement of ballasts	2			
5A-5. Cleaning of exterior lens	12			
5A-6. Cleaning of Reflectors	2			
ALL QUANTITIES ARE APPROXIMATE. A CONTRACT, IF ANY, SHALL BE FOR A (2) YEARS		DELIVERY (Days)	PAYMENT D	ISCOUN
ALL OF THIS BOUND INFORMATION MUST BE KEPT INTACT AND TOGETH ADDENDA ISSUED, MUST BE RETURNED WITH THE BID. OTHERWISE, THE			%	Day
CONSIDERED INFORMAL	ľ	FOR PUR	CHASING USE ON	IJΥ

BID — **SCHEDULE** OF ITEMS

City of Cleveland

Division of Purchases And Supplies 128 City Hall

Cleveland, Ohio 44114

BIDDER MUST COMPLETE & SIGN BELOW

AUTHORIZED SIGNATURE

TITLE OF BID

Labor and Materials Necessary to Repair and Maintain Decorative and Special Lighting on Bridges and Wyland Whale Mural Park 2023

DESCRIPTION	QUANTITY	UNIT PRICE	EXTENS	SION
FEM NO. 5: Bascule #2 Bridge (Cont'd)	9 July 20	35976755		
B. Light Fixture Tag #H-101 (qty. at bridge 12):				
5B-1. Replacement of lamp	2			
5B-2. Replacement of lens – clear	2			
5B-3. Replacement of lens – color	2			
5B-4. Replacement of ballasts	2			
5B-5. Cleaning of exterior lens	12			
5B-6. Cleaning of Reflectors	2			
C. Light Fixture Tag #H-101a (qty. at bridge 4):				
5C-1. Replacement of lamp	2			
5C-2. Replacement of lens – clear	2			
5C-3. Replacement of lens – color	2			
5C-4. Replacement of ballasts	2			
5C-5. Cleaning of exterior lens	4			
5C-6. Cleaning of Reflectors	2			
D. Light Fixture Tag #H-102 (qty. at bridge 6):				
5D-1. Replacement of lamp	2			
5D-2. Replacement of lens – clear	2			
5D-3. Replacement of lens – color	2			
5D-4. Replacement of ballasts	2			
5D-5. Cleaning of exterior lens	6			
5D-6. Cleaning of Reflectors	2			
E. Light Fixture Tag #H-103 (qty. at bridge 6):				
5E-1. Replacement of lamp	2			
5E-2. Replacement of lens – clear	2			
5E-3. Replacement of lens – color	2			
5E-4. Replacement of ballasts	2			
5E-5. Cleaning of exterior lens	6			
5E-6. Cleaning of Reflectors	2			
F. Light Fixture Tag #H-104 (qty. at bridge 4):				
5F-1. Replacement of lamp	2			
5F-2. Replacement of lens – clear	2			
5F-3. Replacement of lens – color	2			
5F-4. Replacement of ballasts	2			
5F-5. Cleaning of exterior lens	4			
5F-6. Cleaning of Reflectors	2			
G. Light Fixture Tag #H-105 (qty. at bridge 4):				
5G-1. Replacement of lamp	2			
5G-2. Replacement of lens – clear	2			
5G-3. Replacement of lens – color	2			
5G-4. Replacement of ballasts	2			
5G-5. Cleaning of exterior lens	4			
5G-6. Cleaning of Reflectors	2			
ALL QUANTITIES ARE APPROXIMATE. A CONTRACT, IF ANY, SHALL BE FOR (2) YEARS		DELIVERY (Days)	PAYMENT (DISCOUNT
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BID — SCHEDULE OF ITEMS

City of Cleveland

Division of Purchases And Supplies

128 City Hall

Cleveland, Ohio 44114

TITLE OF BID

BIDDER MUST COMPLETE & SIGN BELOW

AUTHORIZED SIGNATURE

DESCRIPTION	QUANTITY	UNIT PRICE	EXTENSI	ON
EM NO. 5: Bascule #2 Bridge (Cont'd)				
H. Light Fixture Tag #H-106 (qty. at bridge 1):				
5H-1. Replacement of lamp	2			
5H-2. Replacement of lens	2			
5H-3. Replacement of ballasts	2			
5H-4. Cleaning of exterior lens	2			
56H-5. Cleaning of Reflectors	2			
I. Light Fixture Tag #H-108 (qty. at bridge 2):				
5I-1. Replacement of lamp	2			
5I-2. Replacement of lens	2			
5I-3. Replacement of ballasts	2			<u> </u>
5I-4. Cleaning of exterior lens	2			
5I-5. Cleaning of Reflectors	2			
FEM NO. 6: Conrail (Norfolk Southern) Bridge				
A. Light Fixture Tag #H-103 (qty. at bridge 6):				,
6A-1. Replacement of lamp	2			***************************************
6A-2. Replacement of lens	2			**************************************
6A-3. Replacement of ballasts	2			
6A-4. Cleaning of exterior lens	6			***************************************
6A-5. Cleaning of Reflectors	2			
B. Light Fixture Tag #H-104 (qty. at bridge 6):	······································			
6B-1. Replacement of lamp	2			******
6B-2. Replacement of lens	2			
6B-3. Replacement of ballasts	2			
6B-4. Cleaning of exterior lens	6			
6B-5. Cleaning of Reflectors	2		***************************************	
C. Light Fixture Tag #H-105 (qty. at bridge 2):				
6C-1. Replacement of lamp	2			
6C-2. Replacement of lens – clear	2			
6C-3. Replacement of lens – color	2			
6C-4. Replacement of ballasts	2			
6C-5. Cleaning of exterior lens	2			
6C-6. Cleaning of Reflectors	2			
D. Light Fixture Tag #H-106 (qty. at bridge 8):				
6D-1. Replacement of lamp	2		***************************************	
6D-2. Replacement of lens – clear	2			
6D-3. Replacement of lens – color	2		A	,
6D-4. Replacement of ballasts	2			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
6D-5. Cleaning of exterior lens	8			
6D-6. Cleaning of Reflectors	2			***************************************
ALL QUANTITIES ARE APPROXIMATE. A CONTRACT, IF ANY, SHALL BE FOF (2) YEARS		DELIVERY (Days)	PAYMENT DIS	SCOUN
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BID — SCHEDULE OF ITEMS

City of Cleveland
Division of Purchases And Supplies
128 City Hall

Cleveland, Ohio 44114

BIDDER MUST COMPLETE & SIGN BELOW

AUTHORIZED SIGNATURE

TITLE OF BID

Labor and Materials Necessary to Repair and Maintain Decorative and Special Lighting on Bridges and Wyland Whale Mural Park 2023

DESCRIPTION	QUANTITY	UNIT PRICE	EXTENSION
EM NO. 7: Wyland Whale Mural Park			
A. Light Fixture Tag #A-1 (qty. at park 10):			
7A-1. Replacement of lamp	2		
7A-2. Replacement of lens	2		
7A-3. Replacement of ballasts	2		
7A-4. Cleaning of exterior lens	10		
7A-5. Cleaning of Reflectors	2		
B. Light Fixture Tag #A-2 (qty. at park 10):			
7B-1. Replacement of lamp	2		
7B-2. Replacement of lens	2		
7B-3. Replacement of ballasts	2		
7B-4. Cleaning of exterior lens	10		
7B-5. Cleaning of Reflectors	2		
TEM NO. 8: THE REPAIRING AND/OR REPLACEMENT OF FAULTY LOV	N VOLTAGE LIGHT	ING SUPPLY EQU	IPMENT
A. LABOR:			
8A-1. Monday thru Friday from 8:00am to 5:00pm	COST/HOUR	100 Hr	
8A-2. Monday thru Friday after 5:00pm, Saturday	COST/HOUR	20 Hr	
8A-3. Sunday, Holidays	COST/HOUR	20 Hr	
8A-4. Material cost (disc. Off or cost plus) line not to exceed \$14,000.00	Disc. Off List	Cost Plus	++4 000 00
(See Section C, Item #22 & Item \$23)	%	%	\$14,000.00
		70	
TOTAL BID			
	LL QUANTITIES ARE APPROXIMATE. A CONTRACT, IF ANY, SHALL BE FOR A PERIOD OF TWO		
ALL QUANTITIES ARE APPROXIMATE. A CONTRACT, IF ANY, SHALL BE FOR	A PERIOD OF TWO	DELIVERY	DAVAGNIT DICCOUNT
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(2) YEARS ALL OF THIS BOUND INFORMATION MUST BE KEPT INTACT AND TOGET	HER WITH ANY		
(2) YEARS	HER WITH ANY	(Days)	PAYMENT DISCOUNT % Days CHASING USE ONLY

SPECIFICATIONS/DESCRIPTIONS OF PRODUCTS AND / OR SERVICES DEPARTMENT OF PUBLIC UTILITIES — CLEVELAND PUBLIC POWER

LABOR AND MATERIALS NECESSARY TO REPAIR AND MAINTAIN DECORATIVE AND SPECIAL LIGHTING ON BRIDGES AND THE WYLAND WHALE MURAL PARK 2023

SECTION C - SUPPLEMENTAL GENERAL CONDITIONS

C.4. PRE-BID MEETING / LAST DAY FOR QUESTIONS:

A Pre-Bid meeting will be held on the date and time as per the advertisement announcement. Bidders are cautioned that questions, clarifications, and information that may result from this meeting, could affect your bid. In addition, by City of Cleveland (City) policy, this is the only opportunity for potential bidders to speak directly with Cleveland Public Power (CPP) personnel prior to the award of the contract. Attendance at the pre-bid meeting is non-mandatory.

The last day for questions is five (5) business days before the bid opening date by 12:00 p.m. All questions should be reduced to writing and submitted to the Division of Purchases & Supplies via email at: purchasing@clevelandohio.gov.

C.5. QUANTITIES

The quantities of work to be done or material or equipment to be furnished as given for each item on the Bid Schedule of Items pages are approximate only. They are not guaranteed to be accurate statements and quantities to be performed or furnished under this contract, and any departure from them will not be considered as valid grounds for any claim for damage or for loss of profits. CPP reserves the right to procure more or less than shown under the terms of this requirement contract.

C.6. UNIT PRICES

All prices quoted shall be on a per unit basis as indicated on the Bid Schedule of Items pages and shall include all costs for labor and material, handling and delivery, F.O.B. point of delivery. All prices bid shall remain firm throughout the contract term.

Bidders shall quote their best/normal delivery time in weeks after receipt of order.

C.7. EVALUATION OF BIDS

The City will accept the lowest cost and best bid for each item called out in the specification. The City is seeking a complete bid for all items, as the intent is to award a single contract. The City will reject bids for improper submittal of documentation, incomplete submittal of documentation and/or unsubstantiated information within submittal. Performance, cost, timeliness and safety shall be considered as of the essence of the contract and/or contracts.

SPECIFICATIONS/DESCRIPTIONS OF PRODUCTS AND / OR SERVICES DEPARTMENT OF PUBLIC UTILITIES — CLEVELAND PUBLIC POWER

LABOR AND MATERIALS NECESSARY TO REPAIR AND MAINTAIN DECORATIVE AND SPECIAL LIGHTING ON BRIDGES AND THE WYLAND WHALE MURAL PARK 2023

SECTION C - SUPPLEMENTAL GENERAL CONDITIONS

measures to locate and protect these utilities. The contractor shall be reimbursed the appropriate unit price or Force Account rates for this locating work. Cleveland Public Power makes no quarantees as to the accuracy of any utilities shown on any plans.

The contractor shall repair at its own expense and in a manner satisfactory to utility Owner(s), any above ground/underground utility damages caused by Contractor in the prosecution of the Work. No extra compensation shall be paid to Contractor for repairs to any known services or mains, whether shown or not shown on the plans, damaged by the Contractor's labor force or equipment, nor for any damage incurred through neglect or failure to provide protective barriers, lights or other devices or means required to protect such existing utilities. It shall be the Contractor's sole responsibility to identify and protect any and all utilities in his area of work.

C.21. CONTRACTOR MANAGEMENT AND FIELD SUPERVISION

Contractor shall provide and assign to the work covered under this contract adequate and competent Management/Supervision as detailed within this contract. Cleveland Public Power shall review resumes and/or interview proposed field Project Manager(s), Superintendent(s) and other key personnel. The contractor shall not make any field management assignments to the work covered under this contract without the concurrence and approval of Cleveland Public Power.

C.22. REPAIRING AND/OR REPLACEMENT OF FAULTY LOW VOLTAGE LIGHTING SUPPLY EQUIPMENT (ITEM NO. 8A-4)

Upon examination of the work to be completed, if the Contractor encounters faulty wiring, damaged conduit or control mechanism, Cleveland Public Power is to be notified. The Contractor shall receive approval in writing prior to pursuing work for unforeseen repairs covered as Labor and Material.

When securing items purchased under Item #9A.4 of the Bid – Schedule of Items page. Bidders must show a percentage off list prices or enter a "zero" in the space provided on the Bid – Schedule of Item page, if no discount is being offered. The City will then interpret this to mean that items will be sold to the City at "cost". If a discount is being offered, bidders are to enter the discounted amount in the space provided. Any discount not clearly stated will be disregarded in determining the lowest and best bid, and the price quoted will be considered a net price. To ensure a truly competitive bid, parts discount where applicable will always be discounted from original equipment manufacturers current list price schedules and aftermarket manufacturer's price schedules. Bidder must have access to all manufacturers'

SPECIFICATIONS/DESCRIPTIONS OF PRODUCTS AND / OR SERVICES DEPARTMENT OF PUBLIC UTILITIES — CLEVELAND PUBLIC POWER

LABOR AND MATERIALS NECESSARY TO REPAIR AND MAINTAIN DECORATIVE AND SPECIAL LIGHTING ON BRIDGES AND THE WYLAND WHALE MURAL PARK 2023

SECTION C - SUPPLEMENTAL GENERAL CONDITIONS

materials immediately as needed. The bidder will provide manufacturers' price pages, so discounts can be verified, at the time of request for quotation. Bidders will not use any type of price list they have prepared for their business. All prices must be from a bona fide manufacturer of the parts, materials, equipment, service, and/or supplies. Original equipment manufacturers' product will be used in the vast majority of cases.

However, there may be some exceptions. Should a substitute manufacturer's items be of equal quality and significantly lower in cost, CPP may approve its use. However, the bidder will never make this assumption without approval. Any substitutions of OEM items must be approved by CPP. Furthermore, bidder will never attempt to provide a substitute Manufacturer's item as a means of realizing a greater profit at the expense of the City of Cleveland.

C.23. MARKUP FROM INVOICE COST (ITEM NO. 8A-4)

For those situations when parts, materials, equipment, services, and/or supplies for repairs are needed, and a catalog or price list is not applicable, and only an invoice cost to the bidder is available, a markup will be allowed. A copy of the quotation cost for the parts, materials, equipment, services, and/or supplies must be submitted for approval by CPP before any services can be started. The bidder will be required in those instances to document in writing that a catalog or list price is not applicable. The bidder will be allowed a maximum of fifteen (15) percent (%) markup.

C.24. APPROVAL AND ACCEPTANCE

Upon completion of the work as herein provided, the Contractor shall notify the Cleveland Public Power representative, in writing, that the installation has been completed and is ready for final inspection and/or any performance tests deemed necessary by Cleveland Public Power.

C.25. NOTICE TO PROCEED

The terms of this contract shall begin when CPP issues a Norice to Proceed to the awarded vendor. A Notice to Proceed shall not be issued until the contract has been fully executed and delivered to all parties.

SPECIFICATIONS/DESCRIPTIONS OF PRODUCTS AND / OR SERVICES DEPARTMENT OF PUBLIC UTILITIES — CLEVELAND PUBLIC POWER

LABOR AND MATERIALS NECESSARY TO REPAIR AND MAINTAIN DECORATIVE AND SPECIAL LIGHTING ON BRIDGES AND THE WYLAND WHALE MURAL PARK 2023

SECTION D - DETAILED SPECIFICATIONS

D.1. SCOPE OF SERVICES.

Services will be for awarded vendors to provide all labor, materials, equipment, appurtenances, services, and insurance to complete the replacement of lenses and ballasts, cleaning of lenses & reflectors, and repairing of low voltage supply equipment at the specified locations to maintain the decorative and special lighting fixtures on bridges and the Wyland Whale Mural Park.

D.2. DETAILED SPECIFICATIONS AND TECHNICAL DRAWINGS

See following pages Exhibits A and B

EXHIBIT A

Decorative Bridge Lighting Tag # Description
Contains 24 Pages

General Notes:

The Contractor shall verify lighting fixture clearance of all mounting conditions and compatibility with structural systems. Report any discrepancies to the lighting consultant for action prior to ordering

Voltage to be verified by Electrical Engineer and Contractor prior to ordering of fixtures

All external fasteners on fixtures to be vandal proof and approved by lighting consultant and electrical engineer.

INCANDESCENT, QUARTZ AND HALOGEN FIXTURES

Description Tag

A-100 NOT USED

Pipe Clamp mounted flood light fixture for use with 250 want Halogen spot PAR 38 lamp. Fixture shall be of die cast aluminum body with external adjustable louver and adjustable knuckle joint. Exterior finish to be custom color powdercoat finish. Fixture to be factory outfitted with standard lens holder and Convex tempered glass lens for lamp protection. All fasteners to be of stainless steel and exterior fasteners shall be tamper proof. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 36" SJO leads with Teflon jacketed silicore impregnated glass braid insulted wire cover. Fixture to be supplied with internal dichoric color lens and fasteners. Manufacturer to provide ten (10) adjustment tools for tamperproof hardware with order. Fixtures to be installed alternating lens colors.

Manufacturer: HYDREL Cat # 4710A-IN250/120-Custom Lens-Custom Color-Pipe Clamp

HYDREL Control Cat# CE3269-PAR38

Lamp & Mfg: GE Q250PAR/SP11°

Accessories:

Remarks:

HYDREL External Louver Cat # DLA-47, Custom Colored lens and Pipe Clamp. Ten (10) different custom colored lenses to match Roscolux #19 Fire, #20 Medium Amber, #31 Salmon Pink, #47 Light Rose Purple, #65 Daylight Blue, #71 Sea Blue. #73 Peacock Blue, #96 Lime, #312 Canary, and #343 Neon Pink. See Lighting Filter Plan details DET-100 and DET-101 for filter placement and quantities. Custom color fixture and clamp finish to match bridge color. Contact Mark McKinney, Rosco Laboratories, Inc., 1135 N. Highland Avenue, Hollywood, CA. Phone: 213-462-2233,

Fax: 213-462-3338 for dichoric filters.

HIGH INTENSITY DISCHARGE FIXTURES

Tag Description

H-100 Surface mount asymmetric bulkhead wallwasher for use in upside down position for 100 watt medium base Clear Metal Halide lamp. Fixture shall be 12 5/8" long X 12 5/8" in height with a 8 3/4" extension and made of die cast aluminum with a built-in louver. Fixture optics shall be full specular anodized aluminum reflector and linear prismatic tempered glass lens. Fixture cover and lens shall be attached with (4) captive socket head stainless steel screws. Fixture shall have custom color finish. Fixture shall have integral high power factor ballast rated for -20° F starting.

Manufacturer: BEGA Cat.# 2479MH - Custom Color

Lamp & Mfg: GE MXR100/U/MED

Accessories:

Remarks: Custom color finish to match bridge color. Bracket mounted, large scale, exterior flood light with 5° X 48° symmetrical linear photometrics at 50% maximum candlepower for 250 watt mogul base Clear Metal Halide lamp. Fixture shall be 17 3/4" diameter X 17 3/4" long and made of two piece die cast aluminum with internal heat sink finished with custom color. Fixture optics shall be full specular anodized aluminum reflector with horizontal lamp positioned with arc tube to be centered in reflector and secured with stainless steel latches. Fixture lamp enclosure shall be one piece die cast aluminum frame with internal drainage slots. Enclosure shall hold tempered glass spread lens with 14 linear prisms per inch with, one piece molded U-channel, high temperature silicone gasket and secured with (6) captive socket head stainless steel screws threaded into stainless steel inserts in the reflector housing. Fixture to be supplied with 3/16" stainless steel fully adjustable yoke/swivel with degree indicator and locking tamperproof set screw. Fixture to be factory fitted with glare shield. Fixture shall have integral high power factor ballast rated for -20° F starting.

Manufacturer: BEGA Cat.# 8394MH - Custom Color

Lamp & Mfg:

GE MVR250/U/ED28

Accessories:

BEGA #432 180° Glare Shield for 17 3/4" - custom color on outside

Remarks:

Provide tamper proof external fasteners. Custom color finish to match bridge color.

Bracket mounted, medium scale, exterior flood light with 5° X 32° symmetrical linear photometrics at 50% maximum candlepower for 175 watt medium base Clear Metal Halide lamp. Fixture shall be 13 3/4" diameter X 12 9/16" long and made of two piece die cast aluminum with internal heat sink finished with custom color. Fixture optics shall be full specular anodized aluminum reflector with horizontal lamp positioned with arc tube to be centered in reflector and secured with stainless steel latches. Fixture lamp enclosure shall be one piece die cast aluminum frame with internal drainage slots. Enclosure shall hold tempered glass spread lens with 14 linear prisms per inch with, one piece molded U-channel, high temperature silicone gasket and secured with (6) captive socket head stainless steel screws threaded into stainless steel inserts in the reflector housing. Fixture to be supplied with 3/16" stainless steel fully adjustable yoke/swivel with degree indicator and locking tamperproof set screw. Fixture to be factory fitted with glare shield. Fixture shall have integral high power factor ballast rated for -20° F starting.

Manufacturer: BEGA Cat.# 8339MH - Custom Color

Lamp & Mfg:

GE MVR175/U/MED

Accessories: Remarks:

BEGA #431 180° Glare Shield for 13 3/4" - custom color on outside Provide tamper proof external fasteners. Custom color finish to

match bridge color.

H-103 Surface mount cutoff roadway luminaire with Type 3 distribution for 175 watt mogul base Clear Metal Halide lamp. Fixture shall be 21" long X 14" wide and 7" deep constructed from extruded aluminum with a press-formed top to interlock with the perimeter extruded frame and have custom color finish. Fixture optics shall be full specular anodized aluminum reflector with a tempered glass lens. Fixture door and lens shall be attached with stainless steel latch and hinge. Fixture shall have remote Payne Sparkman dimming ballast rated for -20° F starting.

Manufacturer: Gardco Lighting Cat# EH-14"-1-3-175MH-volts-Custom Color-options - remote

Payne Sparkman ballast provided by contractor

Lamp & Mfg:

GE MVR175/U

Accessories:

Remarks:

Custom color finish to match bridge color.

H-104 Surface mount cutoff roadway luminaire with Type FM distribution for 100 watt medium base Clear Metal Halide lamp. Fixture shall be 21" long X 14" wide and 7" deep constructed from extruded aluminum with a press-formed top to interlock with the perimeter extruded frame and have custom color finish. Fixture optics shall be full specular anodized aluminum reflector with a tempered glass lens. Fixture door and lens shall be attached with stainless steel latch and hinge. Fixture shall have integral high power factor ballast rated for -20° F starting.

Manufacturer: Gardco Lighting Cat# EH-14"-1-3-100MH-volts-Custom Color-options

Lamp & Mfg: GE MXR100/U/MED

Accessories:

Remarks: Custom color finish to match bridge color.

H-105 Bracket mounted, large scale, exterior flood light with 5° X 48° symmetrical linear photometrics at 50% maximum candlepower for 250 watt mogul base Clear Metal Halide lamp. Fixture shall be 17 3/4" diameter X 17 3/4" long and made of two piece die cast aluminum with internal heat sink finished with custom color. Fixture optics shall be full specular anodized aluminum reflector with horizontal lamp positioned with arc tube to be centered in reflector and secured with stainless steel latches. Fixture lamp enclosure shall be one piece die cast aluminum frame with internal drainage slots. Enclosure shall hold tempered glass spread lens with 14 linear prisms per inch with, one piece molded U-channel, high temperature silicone gasket and secured with (6) captive socket head stainless steel screws threaded into stainless steel inserts in the reflector housing. Fixture to be supplied with 3/16" stainless steel fully adjustable yoke/swivel with degree indicator and locking tamperproof set screw. Fixture to be factory fitted with glare shield. Fixture shall have integral high power factor ballast rated for -20° F starting.

Manufacturer: BEGA Cat.# 8394MH - Custom Color

Lamp & Mfg: GE MVR2

GE MVR250/U/ED28

Accessories:

BEGA #432 180° Glare Shield for 17 3/4" - custom color on outside

Remarks:

Provide tamper proof external fasteners. Custom color finish to match bridge color.

H-106 Pole rack mounted, large scale, exterior flood light with 4°symmetrical spot photometrics at 50% maximum candlepower for 250 watt mogul base Clear Metal Halide lamp. Fixture shall be 17 3/4" diameter X 17 3/4" long and made of two piece die cast aluminum with internal heat sink finished to standard factory specifications. Fixture optics shall be full specular anodized aluminum reflector with horizontal lamp positioned with arc tube to be centered in reflector and secured with stainless steel latches. Fixture lamp enclosure shall be one piece die cast aluminum frame with internal drainage slots. Enclosure shall hold tempered lens with, one piece molded U-channel, high temperature silicone gasket and secured with (6) captive socket head stainless steel screws threaded into stainless steel inserts in the reflector housing. Fixture to be supplied with 3/16" stainless steel fully adjustable yoke/swivel with degree indicator and locking tamperproof set screw. Fixture to be factory fitted with glare shield. Fixture shall have integral high power factor ballast rated for -20° F starting.

Manufacturer: BEGA Cat# 8393MH Lamp & Mfg: GE MVR250/U/ED28

Accessories: Remarks: BEGA #432 180° Glare Shield for 17 3/4"

Provide tamper proof external fasteners.

H-107 Pole rack mounted, large scale, exterior flood light with 5° X 48° symmetrical linear photometrics at 50% maximum candlepower for 250 want mogul base Clear Metal Halide lamp. Fixture shall be 17 3/4" diameter X 17 3/4" long and made of two piece die cast aluminum with internal heat sink finished to standard factory specifications. Fixture optics shall be full specular anodized aluminum reflector with horizontal lamp positioned with are tube to be centered in reflector and secured with stainless steel latches. Fixture lamp enclosure shall be one piece die cast aluminum frame with internal drainage slots. Enclosure shall hold tempered glass spread lens with 14 linear prisms per inch with, one piece molded U-channel, high temperature silicone gasket and secured with (6) captive socket head stainless steel screws threaded into stainless steel inserts in the reflector housing. Fixture to be supplied with 3/16" stainless steel fully adjustable yoke/swivel with degree indicator and locking tamperproof set screw. Fixture to be factory fitted with glare shield. Fixture shall have integral high power factor ballast rated for -20° F starting.

Manufacturer: BEGA Cat.# 8394MH Lamp & Mfg: GE MVR250/U/ED28

Accessories: BEGA #432 180° Glare Shield for 17 3/4"
Remarks: Provide tamper proof external fasteners.

H-107a Same as H-107 except lamp is a 400 watt metal halide.

General Notes:

The Contractor shall verify lighting fixture clearance of all mounting conditions and compatibility with structural systems. Report any discrepancies to the lighting consultant for action prior to ordering fixtures.

Voltage to be verified by Electrical Engineer and Contractor prior to ordering of fixtures

All external fasteners on fixtures to be vandal proof and approved by lighting consultant.

HIGH INTENSITY DISCHARGE FIXTURES

Tag Description

H-100 Rack mounted, large scale, exterior flood light with 5° symmetrical spot photometrics at 50% maximum candlepower for 400 watt mogul base Clear Metal Halide lamp. Fixture shall be 17 3/4" diameter X 17 3/4" long and made of two piece die cast aluminum with internal heat sink finished to standard factory specifications. Fixture optics shall be full specular anodized aluminum reflector with horizontal lamp positioned with arc tube to be centered in reflector and secured with stainless steel latches. Fixture lamp enclosure shall be one piece die cast aluminum frame with internal drainage slots. Enclosure shall hold tempered lens with, one piece molded U-channel, high temperature silicone gasket and secured with (6) captive socket head stainless steel screws threaded into stainless steel inserts in the reflector housing. Fixture to be supplied with 3/16" stainless steel fully adjustable yoke swivel with degree indicator and locking tamperproof set screw. Fixture to be factory fitted with louver, dichroic color filter and bug screen. Fixture shall have remote high power factor ballast rated for -20° F starting. Color filter to match Roscolux #65 Daylight Blue.

Manufacturer: BEGA Cat.# 8374MH-custom lens attachment and bug screen

Lamp & Mfg: GE MVR400/U/ED28

Accessories: Outfit with #662 Concentric ring louver for 17 3/4"Ø, Custom lens

attachment and bug screen. (See Detail 9, Sheet LTG-104), and remote high

power factor ballast with enclosure.

Remarks: Provide tamper proof external fasteners. Contact Mark McKinney, Rosco

Laboratories, Inc., 1135 N. Highland Avenue, Hollywood, CA. Phone:

213-462-2233, Fax: 213-462-3338 for dichoric filters.

Rack mounted, large scale, exterior flood light with 7° X 46° symmetrical linear photometrics at 50% maximum candlepower for 400 watt mogul base Clear Metal Halide lamp. Fixture shall be 17 3/4" diameter X 17 3/4" long and made of two piece die cast aluminum with internal heat sink finished to standard factory specifications. Fixture optics shall be full specular anodized aluminum reflector with horizontal lamp positioned with arc tube to be centered in reflector and secured with stainless steel latches. Fixture lamp enclosure shall be one piece die cast aluminum frame with internal drainage slots. Enclosure shall hold tempered glass spread lens with 14 linear prisms per inch with, one piece molded U-channel, high temperature silicone gasket and secured with (6) captive socket head stainless steel screws threaded into stainless steel inserts in the reflector housing. Fixture to be supplied with 3/16" stainless steel fully adjustable yoke/swivel with degree indicator and locking tamperoroof set screw. Fixture to be factory fitted with dichroic color filter and bug screen. Fixture shall have remote high power factor ballast rated for 20° F starting. Color filter to match Roscolux #65 Daylight Blue.

Manufacturer: BEGA Cat.# 8373MH -custom lens attachment and bug screen

Lamp & Mfg: GE MVR400/U/ED28

Accessories: Linear spread lens, Custom lens attachment and bug screen (See Detail 9,

Sheet LTG-104), and remote high power factor ballast with enclosure.

Remarks: Provide tamper proof external fasteners. Contact Mark McKinney, Rosco

Laboratories, Inc., 1135 N. Highland Avenue, Hollywood, CA. Phone:

213-462-2233, Fax: 213-462-3338 for dichoric filters.

General Notes:

The Contractor shall verify lighting fixture clearance of all mounting conditions and compatibility with structural systems. Report any discrepancies to the lighting consultant for action prior to ordering fixtures.

Voltage to be verified by Electrical Engineer and Contractor prior to ordering of fixtures

All external fasteners on fixtures to be vandal proof and approved by lighting consultant.

HIGH INTENSITY DISCHARGE FIXTURES

Tag Description

H-100 Stanchion mounted, small scale, exterior flood light with 7° X 35° symmetrical linear photometrics at 50% maximum candlepower for 70 watt medium base Clear High Pressure Sodium Deluxe Lucalox lamp. Fixture shall be 11" diameter X 12" long and made of two piece die cast aluminum with internal heat sink finished to standard factory specifications. Fixture optics shall be full specular anodized aluminum reflector with horizontal lamp positioned with arctube to be centered in reflector and secured with stainless steel latches. Fixture lamp enclosure shall be one piece die cast aluminum frame with internal drainage slots. Enclosure shall hold tempered glass spread lens with 14 linear prisms per inch with, one piece molded U-channel, high temperature silicone gasket and secured with (6) captive socket head stainless steel screws threaded into stainless steel inserts in the reflector housing. Fixture to be supplied with 3/16" stainless steel fully adjustable yoke/swivel with degree indicator and locking tamperproof set screw. Fixture shall have integral high power factor ballast rated for -20° F starting and glare shield.

Manufacturer: BEGA Cat.# 8331S-MOD to 70 watt E-17 HPS for volts

Lamp & Mfg:

GE LU70/DX/MED

Accessories:

Outfit with BEGA:#430 180° Glare shield for 11"Ø and #435 Mounting bracket

w/ splice box for 3" dia. poie top.

Remarks:

Modify for 70 watt HPS

Rack mounted, large scale, exterior flood light with symmetrical 4° spot photometrics at 50% maximum candlepower for 400 watt mogul base Clear High Pressure Sodium Deluxe Lucalox. Fixture shall be 17 3/4" diameter X 17 3/4" long and made of two piece die cast aluminum with internal heat sink finished to standard factory specifications with custom color. Fixture optics shall be full specular anodized aluminum reflector with horizontal lamp positioned with arc tube to be centered in reflector and secured with stainless steel latches. Fixture lamp enclosure shall be one piece die cast aluminum frame with internal drainage slots. Enclosure shall hold tempered lens with, one piece molded U-channel, high temperature silicone gasket and secured with (6) captive socket head stainless steel screws threaded into stainless steel inserts in the reflector housing. Fixture to be supplied with 3/16" stainless steel fully adjustable yoke/swivel with degree indicator and locking tamperproof set screw. Fixture to be factory fitted with louver and custom glare shield. Fixture shall have remote Payne Sparkman dimming ballast rated for -20° F starting.

Manufacturer: BEGA Cat.# 8374S - custom color - volts - remote Payne Sparkman provided

by contractor

Lamp & Mfg:

GE LU400/DX

Accessories:

Outfit with #662 Concentric ring louver for 17 3/4" and custom 360° 18"

snoot with 1/2" x 1/2" hexcell louver regressed 6" from end.

Remarks:

Fixture to be mounted to underside on upper deck of Detroit Superior. Custom color fixture and snoot to match gray - Federal Spec. No. 36320. Submit shop drawings for approval prior to fabrication. Provide fixture with 1/2" Seal-tite coupling connection and 6' THHN/THWN Copper #12 AWG wire leads.

General Notes:

The Contractor shall verify lighting fixture clearance in all exterior mounting conditions and compatibility with structural systems. Report any discrepancies to the lighting consultant for action prior to ordering fixtures.

Voltage to be verified by Electrical Engineer and Contractor prior to ordering of fixtures.

All external fasteners on fixtures to be temper proof and approved by lighting consultant.

Contractor to provide lock and chain for each fixture mounted under 10'-0".

INCANDESCENT, QUARTZ AND HALOGEN FIXTURES

Tag Description

Pipe Clamp mounted flood light fixture for use with 500 watt Halogen wide flood PAR 56 lamp. Fixture shall be of die cast aluminum body with external adjustable louver and adjustable knuckle joint. Exterior finish to be standard powdercoat factory finish. Fixture to be factory outfitted with standard lens holder and Convex tempered glass lens for lamp protection. All fasteners to be of stainless steel and exterior fasteners shall be tamper proof. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 36" SJO leads with Teflon jacketed silicone impregnated glass braid insulted wire cover. Fixture to be supplied with internal red lens to match Roscolux #25 Orange Red and fasteners. Manufacture to provide tamper proof adjustment tool with each fixture.

Manufacturer: HYDREL Cat # 4710A-IN300MOD/120-Custom Lens-Pipe Clamp

HYDREL Control Cat# CE3269-PAR56

Lamp & Mfg:

GE Q500PAR56WFL

Accessories:

i

HYDREL External Louver Cat # DLA-47, Custom Colored lens and Pipe

Remarks:

Custom colored lens to match Roscolux #25 Orange Red.

A-101 Stanchion mounted flood light fixture for use with 500 watt Halogen wide flood PAR 56 lamp. Fixture shall be of die cast aluminum body with external adjustable louver and adjustable knuckle joint. Exterior finish to be standard powdercoat factory finish. Fixture to be factory outfitted with standard lens holder and Convex tempered glass lens for lamp protection. All fasteners to be of stainless steel and exterior fasteners shall be tamper proof. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 12" SJO leads with Teflon jacketed silicone impregnated glass braid insulted wire cover. Fixture to be supplied with internal red lens to match Roscolux #25 Orange Red and fasteners. Manufacture to provide tamper proof adjustment tool with each fixture.

Manufacturer: HYDREL Cat # 4710A-IN300MOD/120-Custom Lens

HYDREL Control Cat.# CE3269-PAR56

Lamp & Mfg:

GE Q500PAR56WFL

Accessories:

HYDREL External Louver Cat # DLA-47, Custom Colored lens and outfit with

BEGA #342 Pole cap for 3" Ø pole top for stanchion mounting.

Remarks:

Custom colored lens to match Roscolux #25 Orange Red.

A-102 Pipe Clamp mounted flood light fixture for use with 1000 watt Halogen narrow spot PAR 64 lamp. Fixture shall be of die cast aluminum body with Borosilicate glass lens, stainless steel latches, and standard factory finish. Fixture to allow for servicing without disrupting aiming. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 24" leads. Provide masking head / filter hood with expanded metal snoot and factory fitted custom color lens to match Roscolux #25 Orange Red.

Manufacturer: Northstar Lighting Cat# OQ1000C-Q/volts/custom lens/pipe clamp

Lamp & Mfg: GE Q1000PAR64NSP

Accessories: Masking Head / Filter Hood Cat# OQFH, Pipe Clamp and Custom Color Lens.

Remarks: Custom colored lens to match Roscolux #25 Orange Red.

A-102a Pipe Clamp mounted flood light fixture for use with 1000 watt Halogen medium flood PAR 64 lamp. Fixture shall be of die cast aluminum body with Borosilicate glass lens, stainless steel latches, and standard factory finish. Fixture to allow for servicing without disrupting aiming. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 24" leads. Provide masking head / filter hood with expanded metal snoot and factory fitted custom color lens to match Roscolux #25 Orange Red.

Manufacturer: Northstar Lighting Cat# OQ1000C-Q/volts/custom lens/pipe clamp

Lamp & Mfg: GE Q1000PAR64MFL

Accessories: Masking Head / Filter Hood Cat# OQFH, Pipe Clamp and Custom Color Lens.

Remarks: Custom colored lens to match Roscolux #25 Orange Red.

A-103 Pipe Clamp mounted flood light fixture for use with 1000 watt Halogen narrow spot PAR 64 lamp. Fixture shall be of die cast aluminum body with Borosilicate glass lens, stainless steel latches, and standard factory finish. Fixture to allow for servicing without disrupting aiming. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 24" leads. Provide masking head / filter hood with expanded metal snoot and factory fitted custom color lens to match Roscolux #20 Medium Amber.

Manufacturer: Northstar Lighting Cat# OQ1000C-Q/volts/custom lens/pipe clamp

Lamp & Mfg: GE Q1000PAR64NSP

Accessories: Masking Head / Filter Hood Cat# OQFH, Pipe Clamp and Custom Color Lens.

Remarks: Custom colored lens to match Roscolux #20 Medium Amber.

A-103a Pipe Clamp mounted flood light fixture for use with 1000 watt Halogen medium flood PAR 64 lamp. Fixture shall be of die cast aluminum body with Borosilicate glass lens, stainless steel latches, and standard factory finish. Fixture to allow for servicing without disrupting aiming. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 24" leads. Provide masking head / filter hood with expanded metal snoot and factory fitted custom color lens to match Roscolux #20 Medium Amber.

Manufacturer: Northstar Lighting Cat# OQ1000C-Q/volts/custom lens/pipe clamp

Lamp & Mfg:

GE Q1000PAR64MFL

Accessories:

Masking Head / Filter Hood Cat# OQFH, Pipe Clamp and Custom Color Lens.

Remarks:

Custom colored lens to match Roscolux #20 Medium Amber.

Pipe Clamp mounted flood light fixture for use with 1000 watt Halogen narrow spot PAR 64 lamp. Fixture shall be of die cast aluminum body with Borosilicate glass lens, stainless steel latches, and standard factory finish. Fixture to allow for servicing without disrupting aiming. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 24" leads. Provide masking head / filter hood with expanded metal snoot.

Manufacturer: Northstar Lighting Cat# OQ1000C-Q/volts/custom lens/pipe clamp

Lamp & Mfg:

GE Q1000PAR64NSP

Accessories:

Masking Head / Filter Hood Cat# OQFH and Pipe Clamp.

Remarks:

A-104a Pipe Clamp mounted flood light fixture for use with 1000 watt Halogen medium flood PAR 64 lamp. Fixture shall be of die cast aluminum body with Borosilicate glass lens, stainless steel latches, and standard factory finish. Fixture to allow for servicing without disrupting aiming. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 24" leads. Provide masking head / filter hood with expanded metal snoot.

Manufacturer: Northstar Lighting Cat# OQ1000C-Q/volts/custom lens/pipe clamp

Lamp & Mfg:

GE Q1000PAR64MFL

Accessories:

Masking Head / Filter Hood Cat# OQFH and Pipe Clamp.

Remarks:

Surface mounted flood light fixture for use with 1000 watt Halogen narrow spot PAR 64 lamp. Fixture shall be of die cast aluminum body with Borosilicate glass lens, stainless steel latches, and standard factory finish. Fixture to allow for servicing without disrupting aiming. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 24" leads. Provide masking head / filter hood with expanded metal snoot and factory fitted custom color lens to match Roscolux #25 Orange Red.

Manufacturer: Northstar Lighting Cat# OQ1000C-Q/volts/custom lens

Lamp & Mfg:

GE Q1000PAR64NSP

Accessories:

Masking Head / Filter Hood Cat# OQFH and Custom Color Lens.

Remarks:

Custom colored lens to match Roscolux #25 Orange Red.

A-105a Surface mounted flood light fixture for use with 1000 want Halogen medium flood PAR 64 lamp. Fixture shall be of die cast aluminum body with Borosilicate glass lens, stainless steel latches, and standard factory finish. Fixture to allow for servicing without disrupting aiming. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 24" leads. Provide masking head / filter hood with expanded metal snoot and factory fitted custom color lens to match Roscolux #25 Orange Red.

Manufacturer: Northstar Lighting Cat# OQ1000C-Q/volts/custom lens

Lamp & Mfg: GE Q1000PAR64MFL

Accessories: Masking Head / Filter Hood Cat# OQFH and Custom Color Lens.

Remarks: Custom colored lens to match Roscolux #25 Orange Red.

A-106 Surface mounted flood light fixture for use with 1000 watt Halogen narrow spot PAR 64 lamp. Fixture shall be of die cast aluminum body with Borosilicate glass lens, stainless steel latches, and standard factory finish. Fixture to allow for servicing without disrupting aiming. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 24" leads. Provide masking head / filter hood with expanded metal snoot and factory fitted custom color lens to match Roscolux #20 Medium Amber.

Manufacturer: Northstar Lighting Cat# OQ1000C-Q/volts/custom lens

Lamp & Mfg: GE Q1000PAR64NSP

Accessories: Masking Head / Filter Hood Cat# OQFH and Custom Color Lens.

Remarks: Custom colored lens to match Roscolux #20 Medium Amber.

A-106a Surface mounted flood light fixture for use with 1000 watt Halogen medium flood PAR 64 lamp. Fixture shall be of die cast aluminum body with Borosilicate glass lens, stainless steel latches, and standard factory finish. Fixture to allow for servicing without disrupting aiming. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 24" leads. Provide masking head / filter hood with expanded metal snoot and factory fitted custom color lens to match Roscolux #20 Medium Amber.

Manufacturer: Northstar Lighting Cat# OQ1000C-Q/volts/custom lens

Lamp & Mfg: GE Q1000PAR64MFL

Accessories: Masking Head / Filter Hood Cat# OQFH and Custom Color Lens.

Remarks: Custom colored lens to match Roscolux #20 Medium Amber.

A-107 Surface mounted flood light fixture for use with 1000 watt Halogen narrow spot PAR 64 lamp.

Fixture shall be of die east aluminum body with Borosilicate glass lens, stainless steel latches, and standard factory finish. Fixture to allow for servicing without disrupting aiming. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 24" leads. Provide masking head / filter hood with expanded metal snoot.

Manufacturer: Northstar Lighting Cat# OQ1000C-Q/volts/custom lens

Lamp & Mfg: GE Q1000PAR64NSP

Accessories: Masking Head / Filter Hood Cat# OQFH

Remarks:

A-107a Surface mounted flood light fixture for use with 1000 watt Halogen medium flood PAR 64 lamp. Fixture shall be of die cast aluminum body with Borosilicate glass lens, stainless steel latches, and standard factory finish. Fixture to allow for servicing without disrupting aiming. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 24" leads. Provide masking head / filter hood with expanded metal snoot.

Manufacturer: Northstar Lighting Cat# OQ1000C-Q/volts/custom lens

Lamp & Mfg:

GE Q1000PAR64MFL

Accessories:

Masking Head / Filter Hood Cat# OOFH

Remarks:

Pole mounted flood light fixture for use with 1000 watt Halogen narrow spot PAR 64 lamp. Fixture shall be of die cast aluminum body with Borosilicate glass lens, stainless steel latches, and standard factory finish. Fixture to allow for servicing without disrupting aiming. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 24" leads. Provide masking head / filter hood with expanded metal snoot and factory fitted custom color lens to match Roscolux #25 Orange Red.

Manufacturer: Northstar Lighting Cat# OQ1000C-Q/volts/custom lens

Lamp & Mfg:

GE Q1000PAR64NSP

Accessories:

Masking Head / Filter Hood Cat# OQFH and Custom Color Lens.

Remarks:

Custom colored lens to match Roscolux #25 Orange Red.

A-108a Pole mounted flood light fixture for use with 1000 watt Halogen medium flood PAR 64 lamp. Fixture shall be of die cast aluminum body with Borosilicate glass lens, stainless steel latches, and standard factory finish. Fixture to allow for servicing without disrupting aiming. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 24" leads. Provide masking head / filter hood with expanded metal snoot and factory fitted custom color lens to match Roscolux #25 Orange Red.

Manufacturer: Northstar Lighting Cat# OQ1000C-Q/volts/custom lens

Lamp & Mfg:

GE Q1000PAR64MFL

Accessories:

Masking Head / Filter Hood Cat# OQFH and Custom Color Lens.

Remarks:

Custom colored lens to match Roscolux #25 Orange Red.

Pole mounted flood light fixture for use with 1000 watt Halogen narrow spot PAR 64 lamp. A-109 Fixture shall be of die cast aluminum body with Borosilicate glass lens, stainless steel latches, and standard factory finish. Fixture to allow for servicing without disrupting aiming. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 24" leads. Provide masking head / filter hood with expanded metal snoot and factory fitted custom color lens to match Roscolux #20 Medium Amber.

Manufacturer: Northstar Lighting Cat# OQ1000C-Q/volts/custom lens

Lamp & Mfg:

GE Q1000PAR64NSP

Accessories:

Masking Head / Filter Hood Cat# OQFH and Custom Color Lens.

Remarks:

Custom colored lens to match Roscolux #20 Medium Amber.

A-109a Pole mounted flood light fixture for use with 1000 watt Halogen medium flood PAR 64 lamp.

Fixture shall be of die cast aluminum body with Borosilicate glass lens, stainless steel latches, and standard factory finish. Fixture to allow for servicing without disrupting aiming. Fixture to be

U.L. Listed suitable for wet locations and be provided with minimum 24" leads. Provide masking head / filter hood with expanded metal snoot and factory fitted custom color lens to match Roscolux #20 Medium Amber.

Manufacturer: Northstar Lighting Cat# OQ1000C-Q/volts/custom lens

Lamp & Mfg: GE Q1000PAR64MFL

Accessories: Masking Head / Filter Hood Cat# OQFH and Custom Color Lens.

Remarks: Custom colored lens to match Roscolux #20 Medium Applications of the colored lens to match Roscolux #20

Remarks: Custom colored lens to match Roscolux #20 Medium Amber.

A-110 Pole mounted flood light fixture for use with 1000 watt Halogen narrow spot PAR 64 lamp.

Fixture shall be of die cast aluminum body with Borosilicate glass lens, stainless steel latches, and standard factory finish. Fixture to allow for servicing without disrupting aiming. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 24" leads. Provide masking head / filter hood with expanded metal snoot.

Manufacturer: Northstar Lighting Cat# OQ1000C-Q/volts/custom lens

Lamp & Mig: GE Q1000PAR64NSP

Accessories: Masking Head / Filter Hood Cat# OQFH

Remarks:

A-110a Pole mounted flood light fixture for use with 1000 watt Halogen medium flood PAR 64 lamp.

Fixture shall be of die cast aluminum body with Borosilicate glass lens, stainless steel latches, and standard factory finish. Fixture to allow for servicing without disrupting aiming. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 24" leads. Provide masking head / filter hood with expanded metal snoot.

Manufacturer: Northstar Lighting Cat# OQ1000C-Q/volts/custom lens

Lamp & Mfg: GE Q1000PAR64MFL

Accessories: Masking Head / Filter Hood Cat# OQFH

Remarks:

A-111 Pipe Clamp mounted flood light fixture for use with 150 watt Halogen medium flood PAR 38 lamp. Fixture shall be of die cast aluminum body with external adjustable louver and adjustable knuckle joint. Exterior finish to be custom color powdercoat finish. Fixture to be factory outfitted with standard lens holder and Convex tempered glass lens for lamp protection. All fasteners to be of stainless steel and exterior fasteners shall be tamper proof. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 36" SJO leads with Teflon jacketed silicone impregnated glass braid insulted wire cover. Fixture to be supplied with internal magenta lens to match Roscolux #46 Magenta and fasteners. Manufacturer to provide tamper proof adjustment tool with each fixture.

Manufacturer: HYDREL Cat # 4710A-IN250/120-Custom Lens-Custom Color-Pipe Clamp

HYDREL Control Cat.# CE3269-PAR38

Lamp & Mfg: GE Q150PAR/FL°

HYDREL External Louver Cat # DLA-47, Custom Colored lens and Pipe Accessories:

Clamp.

Remarks: Custom colored lens to match Roscolux #46 Magenta. Custom color

fixture and clamp finish to match bridge color.

A-112 Pipe Clamp mounted flood light fixture for use with 500 watt Halogen wide flood PAR 56 lamp. Fixture shall be of die cast aluminum body with external adjustable louver and adjustable knuckle joint. Exterior finish to be standard powdercoat factory finish. Fixture to be factory outfitted with standard lens holder and Convex tempered glass lens for lamp protection. All fasteners to be of stainless steel and exterior fasteners shall be tamper proof. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 36" SIO leads with Teflon jacketed silicone impregnated glass braid insulted wire cover. Fixture to be supplied with internal red lens to match Roscolux #20 Medium Amber and fasteners. Manufacture to provide tamper proof adjustment tool with each fixture.

Manufacturer: HYDREL Cat # 4710A-IN300MOD/120-Custom Lens-Pipe Clamp

HYDREL Control Cat# CE3269-PAR56

Lamp & Mfg: GE Q500PAR56WFL

Accessories: HYDREL External Louver Cat # DLA-47, Custom Colored lens and Pipe

Remarks: Custom colored lens to match Roscolux #20 Medium Amber.

Stanchion mounted flood light fixture for use with 500 watt Halogen wide flood PAR 56 lamp. Fixture shall be of die cast aluminum body with external adjustable louver and adjustable knuckle joint. Exterior finish to be standard powdercoat factory finish. Fixture to be factory outfitted with standard lens holder and Convex tempered glass lens for lamp protection. All fasteners to be of stainless steel and exterior fasteners shall be tamper proof. Fixture to be U.L. Listed suitable for wet locations and be provided with minimum 12" SJO leads with Teflon jacketed silicone impregnated glass braid insulted wire cover. Fixture to be supplied with internal red lens to match Roscolux #20 Medium Amber and fasteners. Manufacture to provide tamper proof adjustment tool with each fixture.

Manufacturer: HYDREL Cat # 4710A-IN300MOD/120-Custom Lens

HYDREL Control Cat.# CE3269-PAR56

Lamp & Mfg: GE Q500PAR56WFL

Accessories: HYDREL External Louver Cat # DLA-47, Custom Colored lens and outfit with

BEGA #342 Pole cap for 3" Ø pole top for stanchion mounting.

Remarks: Custom colored lens to match Roscolux #20 Medium Amber.

HIGH INTENSITY DISCHARGE FIXTURES

Tag Description

H-100 Pipe Clamp mounted, small scale, exterior flood light with symmetrical flood photometrics for 70 watt medium base diffuse High Pressure Sodium Deluxe Lucalox lamp. Fixture shall be 11" diameter X 12" long and made of two piece die cast aluminum with internal heat sink finished to standard factory specifications. Fixture optics shall be full specular anodized aluminum reflector with horizontal lamp positioned with are tube to be centered in reflector and secured with stainless steel latches. Fixture lamp enclosure shall be one piece die cast aluminum frame with internal drainage slots. Enclosure shall hold tempered glass lens with, one piece molded U-channel, high temperature silicone gasket and secured with (6) captive socket head stainless steel screws threaded into stainless steel inserts in the reflector housing. Fixture to be supplied with 3/16" stainless steel fully adjustable yoke/swivel with degree indicator and locking tamperproof set screw. Fixture shall have integral high power factor ballast rated for -20° F starting and glare shield.

Manufacturer: BEGA Cal.# 8329S-MOD to 70 watt E-17 HPS for volts

Lamp & Mfg: GE LU70/DX/D/MED

Accessories: Outfit with BEGA #430 180° Glare shield, and #280 tube clamp mount

Remarks: Modify for 70 watt HPS.

H-101 Stanchion mounted, small scale, exterior flood light with symmetrical flood photometrics for 70 watt medium base diffuse High Pressure Sodium Deluxe Lucalox lamp. Fixture shall be 11" diameter X 12" long and made of two piece die cast aluminum with internal heat sink finished to standard factory specifications. Fixture optics shall be full specular anodized aluminum reflector with horizontal lamp positioned with are tube to be centered in reflector and secured with stainless steel latches. Fixture lamp enclosure shall be one piece die cast aluminum frame with internal drainage slots. Enclosure shall hold tempered glass lens with, one piece molded U-channel, high temperature silicone gasket and secured with (6) captive socket head stainless steel screws threaded into stainless steel inserts in the reflector housing. Fixture to be supplied with 3/16" stainless steel fully adjustable yoke/swivel with degree indicator and locking tamperproof set screw. Fixture shall have integral high power factor ballast rated for -20° F starting and giare shield.

Manufacturer: BEGA Cat.# 8329S-MOD to 70 watt E-17 HPS for volts

Lamp & Mfg: GE LU70/DX/D/MED

Accessories: Outfit with BEGA #430 180° Glare shield for 11"0, and #341 Pole cap for

2 3/8" dia. pole top.

Remarks: Modify for 70 want HPS.

H-102 Stanchion mounted, medium scale, exterior flood light with symmetrical linear photometrics for 150 watt medium base clear High Pressure Sodium Deluxe Lucalox lamp. Fixture shall be 13 3/4" diameter X 12 9/16" long and made of two piece die cast aluminum with internal heat sink finished to standard factory specifications. Fixture optics shall be full specular anodized aluminum reflector with horizontal lamp positioned with are tube to be centered in reflector and secured with stainless steel latches. Fixture lamp enclosure shall be one piece die cast aluminum frame with internal drainage slots. Enclosure shall hold tempered glass spread lens with 14 linear prisms per inch with, one piece molded U-channel, high temperature silicone gasket and secured with (6) captive socket head stainless steel screws threaded into stainless steel inserts in the reflector housing. Fixture to be supplied with 3/16" stainless steel fully adjustable yoke/swivel with degree indicator and locking tamperproof set screw. Fixture shall have integral high power factor ballast rated for -20° F starting and glare shield.

Manufacturer: BEGA Cat# 8337S - yolts
Lamp & Mfg: GE LU150/DX/MED

Accessories: Outfit with BEGA #431 180° Glare shield for 13 3/4"Ø, and #341 Pole cap for

2 3/8" dia. pole top.

Remarks:

H-103 Stanchion mounted, small scale, exterior flood light with symmetrical linear photometrics for 70 watt medium base clear High Pressure Sodium Deluxe Lucalox lamp. Fixture shall be 11" diameter X 12" long and made of two piece die cast aluminum with internal heat sink finished to standard factory specifications. Fixture optics shall be full specular anodized aluminum reflector with horizontal lamp positioned with are tube to be centered in reflector and secured with stainless steel latches. Fixture lamp enclosure shall be one piece die cast aluminum frame with internal drainage slots. Enclosure shall hold tempered glass spread lens with 14 linear prisms per inch with, one piece molded U-channel, high temperature silicone gasket and secured with (6) captive socket head stainless steel screws threaded into stainless steel inserts in the reflector housing. Fixture to be supplied with 3/16" stainless steel fully adjustable yoke/swivel with degree indicator and locking tamperproof set screw. Fixture shall have integral high power factor ballast rated for -20° F starting and glare shield.

Manufacturer: BEGA Cat.# 8331S-MOD to 70 watt E-17 HPS for volts

Lamp & Mfg: GE LU70/DX/MED

Accessories: Outfit with BEGA #430 180° Glare shield for 11"0, and #341 Pole cap for

2 3/8" dia. pole top.

Remarks: Modify for 70 watt HPS.

END OF SCHEDULE

General Notes:

The Contractor shall verify lighting fixture clearance in all interior and exterior mounting conditions and compatibility with structural systems. Report any discrepancies to the lighting consultant for action prior to ordering fixtures.

INCANDESCENT, QUARTZ AND HALOGEN FIXTURES

Tag Description

A-100 DELETED

HIGH INTENSITY DISCHARGE FIXTURES

Tag Description

H-100 Pole mounted large flood light with spot distribution for 1000 watt Metal Halide Par Lamp. Fixture shall be two piece die cast aluminum with Borosilicate glass linear lens with 9° x 9° beam spread at 50% of maximum candlepower, stainless steel latches, and standard factory finish. Fixture shall have remote high power factor ballast rated for -20° F and U.L. Listed for wet location. Fixture to allow for servicing without disrupting aiming. Provide masking head / filter hood with expanded metal snoot and factory fitted custom medium blue dichroic color filter to match Roscolux #80.

Manufacturer: North Star Lighting Cat # OQ1000C/volts/OQFH/custom color filter

Lamp & Mfg:

GE CSI1000/SB/G38

Accessories:

Masking Head./ Filter Hood Cat # OQFH

Remarks:

Provide extra Type "S" lens.

H-101 Pole mounted large flood light with spot distribution for 1000 watt Metal Halide Par Lamp. Fixture shall be two piece die cast aluminum with Borosilicate glass linear lens with 9° x 9° beam spread at 50% of maximum candlepower, stainless steel latches, and standard factory finish. Fixture shall have remote high power factor ballast rated for -20° F and U.L. Listed for wet location. Fixture to allow for servicing without disrupting aiming. Provide masking head / filter hood with expanded metal snoot and factory fitted custom purple dichroic color filter to match Roscolux #358.

Manufacturer: North Star Lighting Cat # OQ1000C/volts/OQFH/custom color filter

Lamp & Mfg:

GE CSI1000/SB/G38

Accessories:

Masking Head / Filter Hood Cat # OQFH

Remarks:

H-101a Pole mounted large flood light with linear distribution for 1000 watt Metal Halide Par Lamp. Fixture shall be two piece die cast aluminum with Borosilicate glass linear lens with 23° x 14° beam spread at 50% of maximum candlepower, stainless steel latches, and standard factory finish. Fixture shall have remote high power factor ballast rated for -20° F and U.L. Listed for wet location. Fixture to allow for servicing without disrupting aiming. Provide masking head / filter hood with expanded metal snoot and factory fitted custom purple dichroic color filter to match Roscolux #358.

Manufacturer: North Star Lighting Cat # OQ1000P/volts/OQFH/custom color filter

Lamp & Mfg:

GE CSI1000/SB/G38

Accessories:

Masking Head / Filter Hood Cat # OQFH

Remarks:

Provide extra Type "C" lens.

H-102 Surface Tenon mounted large vertical flood light for 400 watt High Pressure Sodium Lucalox lamp. Fixture shall be two piece die cast aluminum with specular Alzak optics, tempered glass lens and standard powdercoat finish. Fixture shall have U.L. Listing for wet location and integral high power factor ballast rated for -20° F starting and formed 1/16" thick aluminum Grid Louver with matching powdercoat finish and dichroic color lens to match Roscolux #23 Orange.

Manufacturer: KIM Cat # AFL7/400HPSvolts-BL-P

Lamp & Mfg:

GE LU400

Accessories:

Surface Mount Tenon Cat. # SMT/BL-P, Grid Louver for AFL8

Cat.# GL8/BL-P-MOD

Remarks:

Provide tamper proof external fasteners. Contact Mark McKinney, Rosco Laboratories, Inc., 1135 N. Highland Avenue, Hollywood, CA, Phone:

213-462-2233, Fax: 213-462-3338 for dichoric filters.

H-103 Pipe Clamp mounted large flood light with linear distribution for 1000 watt Metal Halide Par Lamp. Fixture shall be two piece die cast aluminum with Borosilicate glass linear lens with 23° x 14° beam spread at 50% of maximum candlepower, stainless steel latches, and standard factory finish. Fixture shall have remote high power factor ballast rated for -20° F and U.L. Listed for wet location. Fixture to allow for servicing without disrupting aiming. Provide masking head / filter hood with expanded metal snoot and factory fitted custom medium blue dichroic color filter to match Roscolux #80.

Manufacturer: North Star Lighting Cat # OQ1000P/volts/OQFH/custom color filter

Lamp & Mfg:

GE CS11000/SB/G38

Accessories:

Masking Head / Filter Hood Cat # OQFH and Pipe Clamp

Remarks:

Pipe Clamp mounted large flood light with linear distribution for 1000 watt Metal Halide Par Lamp. Fixture shall be two piece die cast aluminum with Borosilicate glass linear lens with 23° x 14° beam spread at 50% of maximum candlepower, stainless steel latches, and standard factory finish. Fixture shall have remote high power factor ballast rated for -20° F and U.L. Listed for wet location. Fixture to allow for servicing without disrupting aiming. Provide masking head / filter hood with expanded metal snoot and factory fitted custom purple dichroic color filter to match Roscolux #358.

Manufacturer: North Star Lighting Cat # OQ1000P/volts/OQFH/custom color filter

Lamp & Mfg:

GE CSI1000/SB/G38

Accessories:

Masking Head / Filter Hood Cat # OQFH and Pipe Clamp

Remarks:

H-105 Surface mounted large flood light with linear distribution for 1000 watt Metal Halide Par Lamp. Fixture shall be two piece die cast aluminum with custom Borosilicate glass linear lens with 4° x 20° beam spread at 50% of maximum candlepower, stainless steel latches, and standard factory finish. Fixture shall have remote high power factor ballast rated for -20° F and U.L. Listed for wet location. Fixture to allow for servicing without disrupting aiming. Provide masking head / filter hood with expanded metal snoot and factory fitted custom purple dichroic color filter to match Roscolux #358.

Manufacturer: North Star Lighting Cat # OQ1000custom lens/volts/OQFH/custom color filter

Lamp & Mfg:

GE CSI1000/SB/G38

Accessories:

Masking Head / Filter Hood Cat # OQFH

Remarks:

Yoke mounted medium search light with 24 1/2" dia. X 24" in length dimensions for 1000 watt Xenon lamp with color temperature of 6000° Kelvin. Fixture to have standard base constructed of corrosion resistant aluminum with sliding stop allow fixture to have 360° rotation without damaging power supply wires. Fixture body to be constructed of marine grade corrosion resistant material with a hinged front door and removable rear dome for servicing. Reflector shall be precision, parabolic, and constructed of nickel with rhodium finish for a 1° beam spread, the capability of opening to a 4° beam spread with lamp adjustment and 65 million candle power with 1000 watt Xenon lamp. Fixture lens to be made of heat treated tempered glass and sealed high temperature gasketing. Fixture finish shall be heat resistant matte black paint on the interior and white enamel paint on the exterior including base parts. Fixture to be supplied with required DC ballasted power supply with "Auto-Ignition" from timer switch. Fixture to be supplied with means to lock fixture in position after aiming.

Manufacturer: The Carlisle & Finch Co. Cat# XE9663

Lamp & Mfg:

1000 watt 1000TRC Xenon lamp with 1500 hours warranted life.

Accessories:

1PS1/T-ER - DC Power Supply "modified for Auto-Ignition capability".

and C7544 - Control Station.

Remarks:

Fixture to be controlled by Tracker Application software on standard lighting

console with DMX 512 Protocol.

H-107 DELETED

Lighting Fixture Schedule

H-108 Yoke mounted large flood light with stadium oval distribution for 2000 watt double ended Metal Halide Lamp. Fixture shall be two piece die cast aluminum with high reflectance coated glass primary reflector, Alglas finished aluminum secondary front reflector and standard factory finish. Fixture shall be equipped with shutdown circuiting for lens breakage, integral high power factor ballast rated for -20° F and U.L. Listed for wet location. Fixture to allow for servicing without disrupting aiming.

Manufacturer: GE Lighting Systems Cat.# ULTS-02-M-volts-A-S01-Options

Lamp & Mfg: GE MQI2000/T9/40

Accessories: Remarks:

END OF SCHEDULE

CONRAIL (NORFOLK SOUTHERN) BRIDGE Lighting Fixture Schedule

• H-103, H-104 & H-105

Floodlight stile fixture with 400 watt, 240 volts high pressure sodium lamps.

• H-106

Light fixture with 70 watt, 240 volts high pressure sodium lamps.

May 31, 2001 rfon, Interoff-01.doc

WYLAND WHALE MURAL PARK at Cleveland Public Power Lake Road Plant North Marginal Road, Cleveland, Ohio

Lighting Fixture Schedule

Tag Description

A-1

FLOODLIGHTS

The die-cast aluminum housing shall be heavy-duty (NEMA) weatherproof manufacture. Ballast shall be integral type. Seals and gaskets shall be provided for complete unit to prevent the entry of contaminants. Lens shall be of high-impact, thermal shock resistant glass. Multi-volt floodlights shall be furnished with twist lock type receptacles.

Vandal Shield

· Vandal shields for floodlights shall be of impact resistant polycarbonate to be bolted to the cover or lens frame.

Mounting Assembly

Mounting assembly shall be of cast aluminum construction in two sections. Top section attached to floodlight housing shall be of serrated knuckle design with positive lock position/stop capability, lower section shall have matching serrations and shall be attached to the upper section and shall be a slipfitter capable of fitting over a 2-3/8" pipe. Lower section shall be marked in 10° segments. Cable entry to the fixture shall be made through an external wireway, entering through a weatherproof strain relief bushing.

Exterior Coating

Floodlights shall be coated with a powder coat thermoset acrylic baked enamel formulated to provide no appreciable fading over a period of five (5) years. Coating shall be two to four mils in thickness, and be applied after the surface has been thoroughly cleaned to assure proper adhesion. The coating shall be light gray in color.

Lamp: 1000 watt Metal Halide

WYLAND WHALE MURAL PARK at Cleveland Public Power Lake Road-Plant North Marginal Road, Cleveland, Ohio

Lighting Fixture Schedule

Tag Description

A-2

Luminaires

Ornamental lighting luminaires shall be glare free, energy efficient and UV stabilized for color clarity. The luminaires shall be integrally ballasted for 240V operation of High Pressure Sodium or Metal Halide lamps of various wattages with button type photocontrol, as designated on the bid sheet. Post top fitter shall be of fluted design, be black in color and shall accept a standard 3" diameter tenon.

Acorn style luminaire shall be similar in design and appearance to the W. J. Whatley, Inc. model 1004.

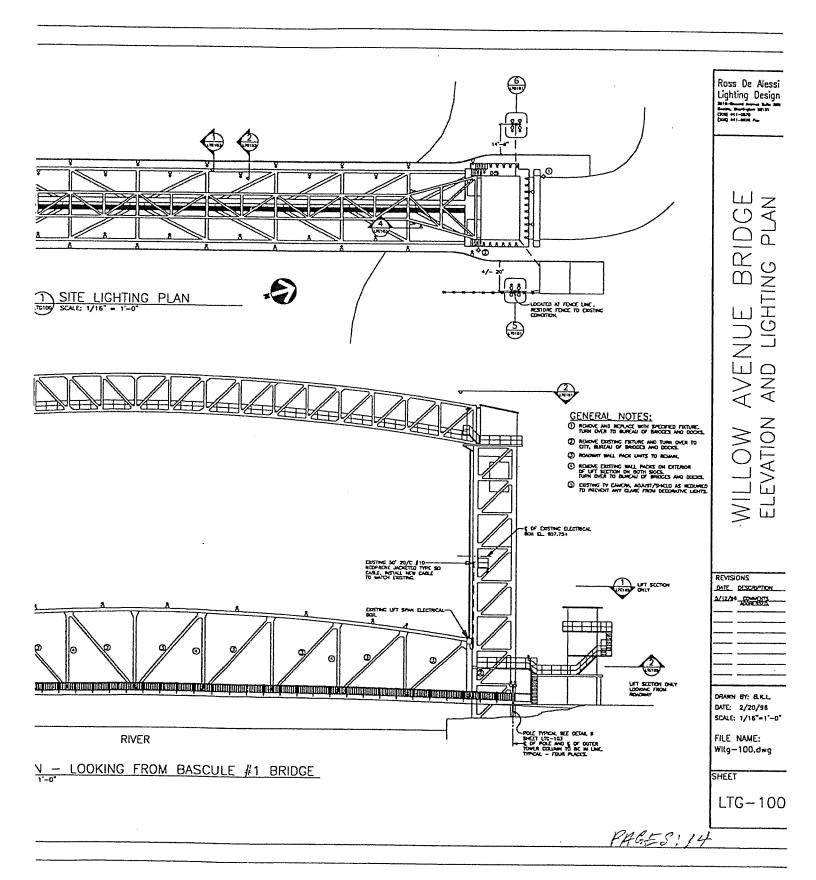
Lamp: 175 watt Metal Halide

Voltage supply is 240 volts.

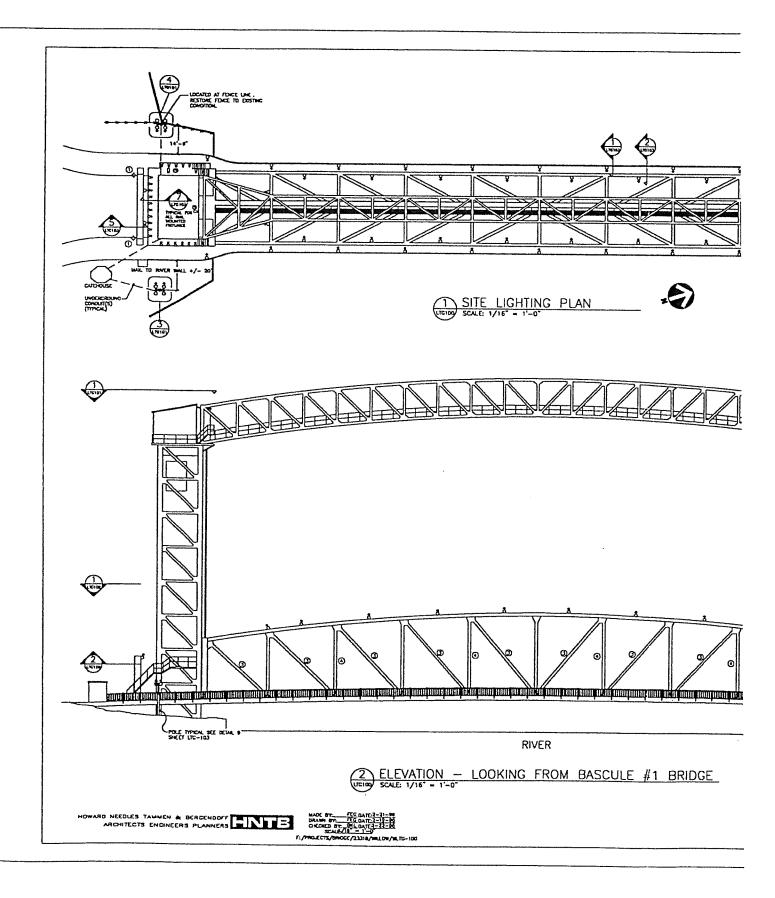
Addendum No. 1

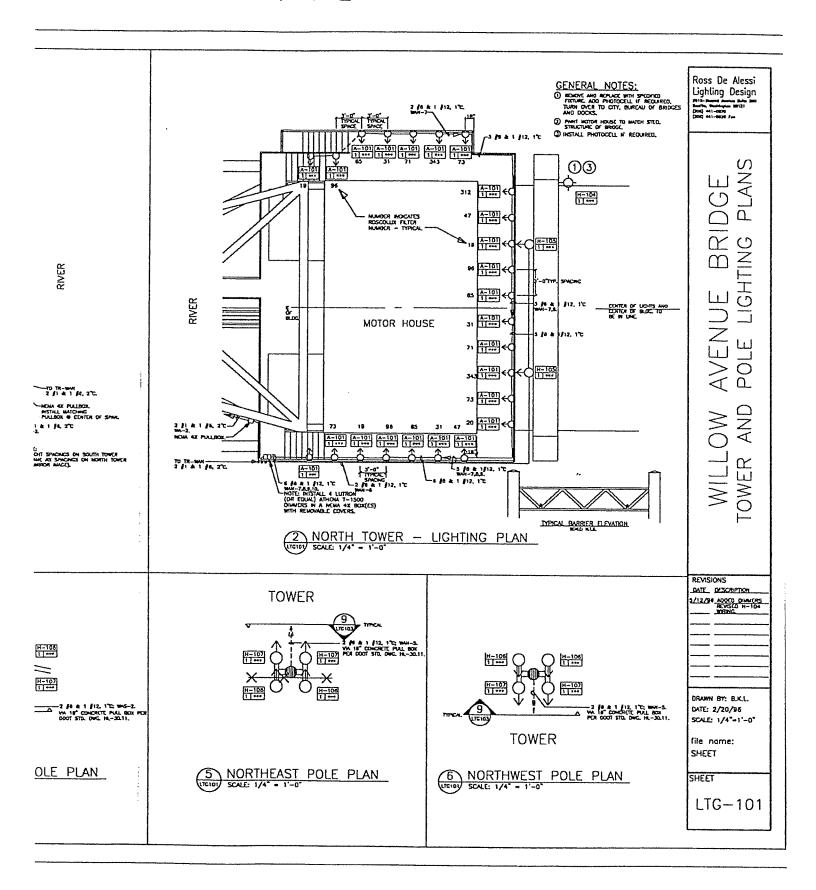
EXHIBIT B

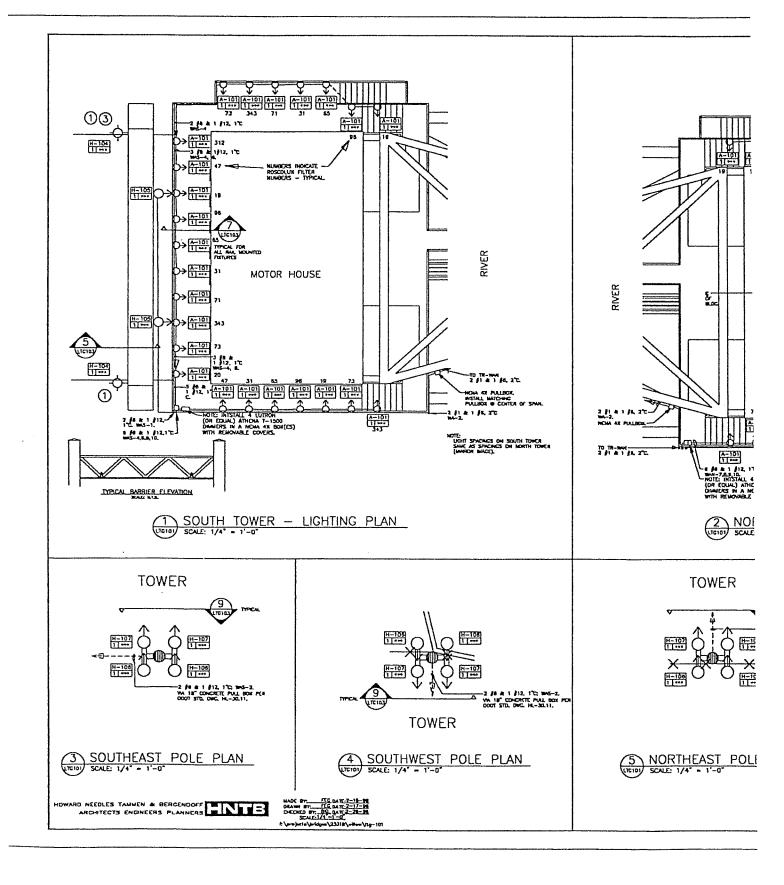
Decorative Bridge Lighting Tag # Description
Contains 70 Pages



PLOT 192:1







TOWARD BASCULE 11 BRIDGE

CTION LIGHTING PLAN

TOWARD BASCULE #1 BRIDGE

Destrict Size No. 1, 11 Wa UTTMAX CONTROL PANEL

102, 3/17

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103, 3/17

104, 3/17

105, 3/17

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BOOLS, ETC. PHALL BE ROCKED BETTER RESULTANCE AND THE

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Ross De Alessi Lighting Design 2013- Second America Style 200 Section Metalogica Boltzi (200) 441-0070 (200) 441-0026 Fee

WILLOW AVENUE BRIDGE LIFT SECTION LIGHTING PLANS

REVISIONS

DATE DESCRIPTION

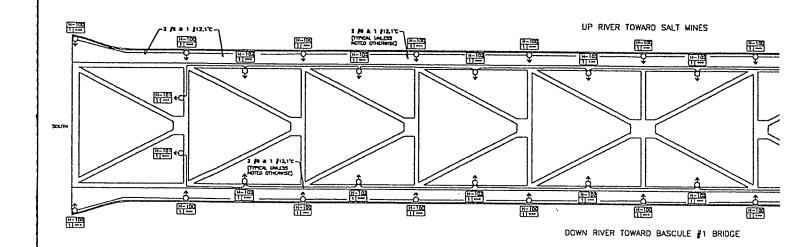
\$/12/99 ADDED BRUMEDIC BOTT.

B.K.L DATE: 2/26/96 SCALE: 1/16"-1"-0"

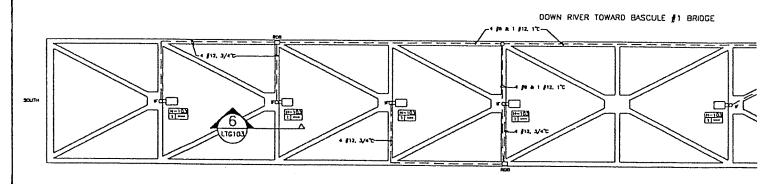
FILE NAME: Ltg-02r1.dwg

SHEET

LTG-102



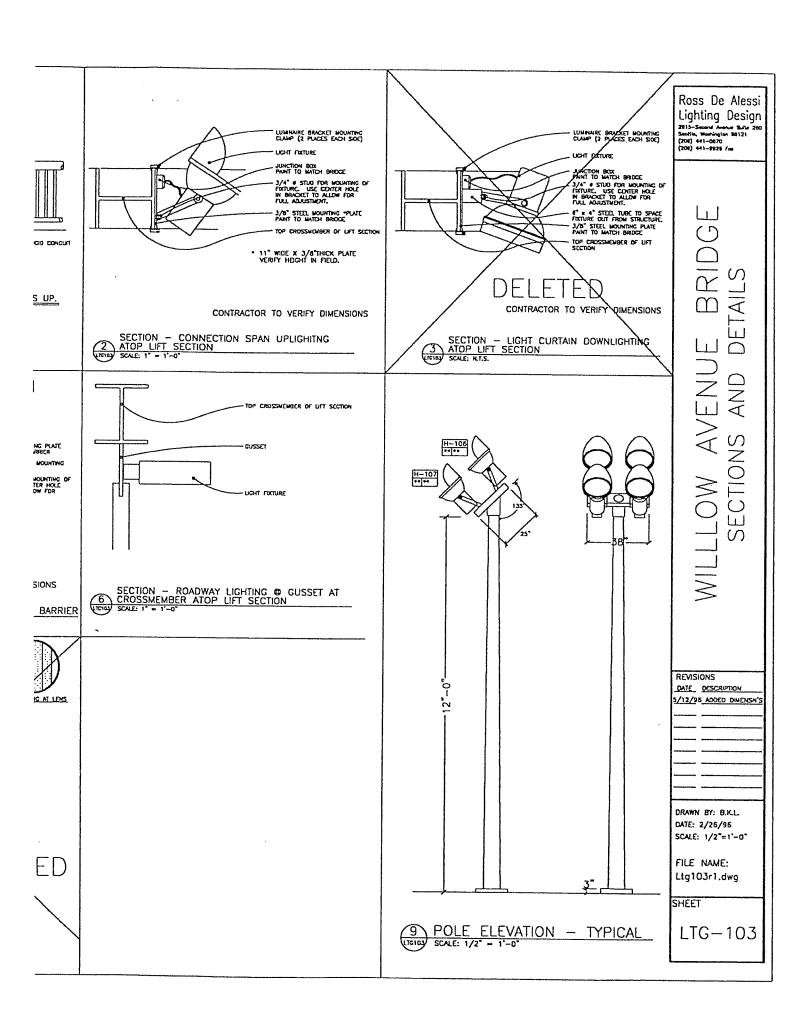
1 LIFT SECTION LIGHTING PLAN SCALE: 3/32° = 1'-0"

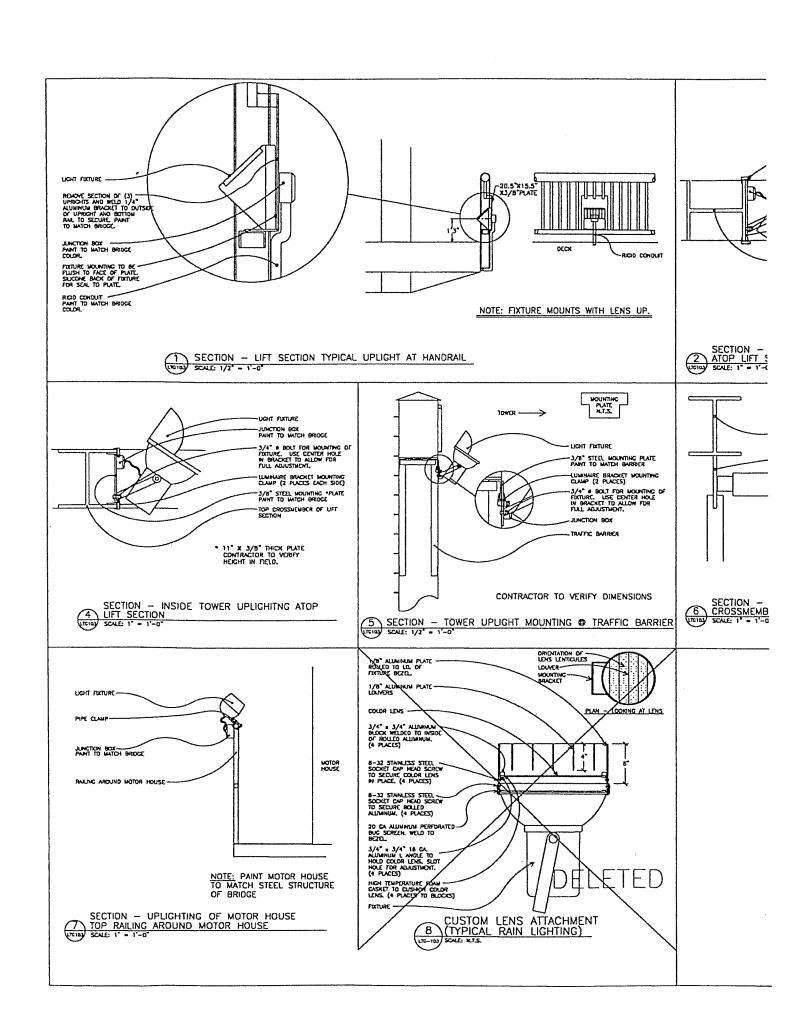


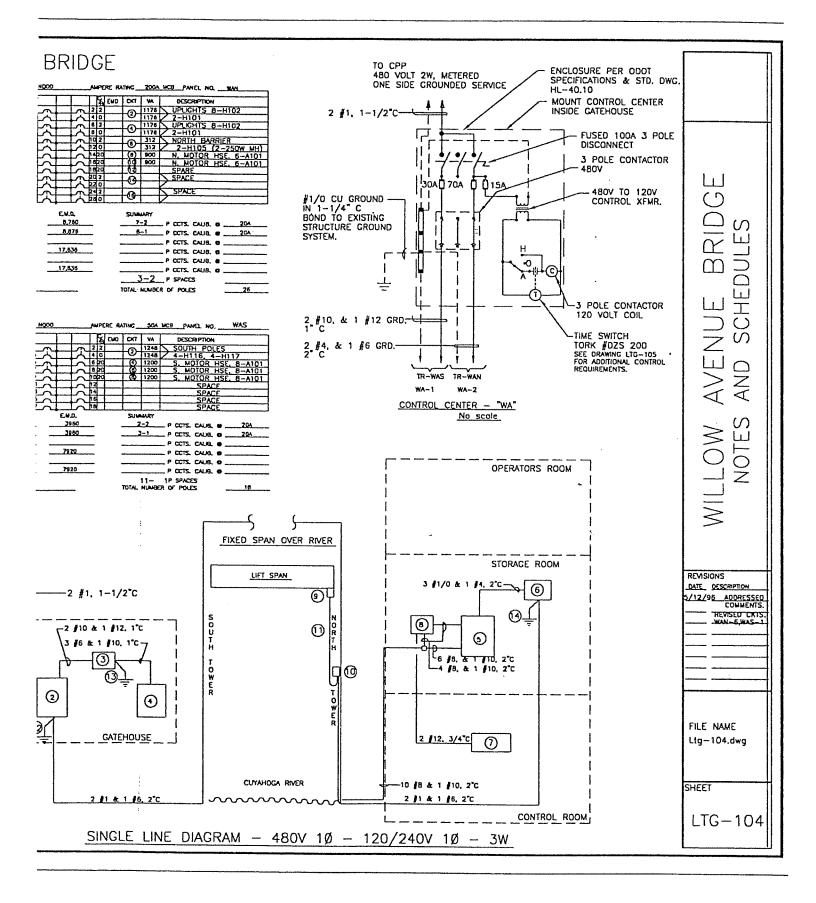
UP RIVER TOWARD SALT MINES

2 LIFT SECTION - LOOKING UP FROM ROA

HOWARD NECDLES TAMBER & BERGENDOFF HINTE







DECORATIVE LIGHTING NOTES-WILLOW AVENUE BRIDGE

SPECIFICATIONS.
THESE NOTES ARE SUPPLEMENTAL TO ITEMS 825 AND 713 OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS AND TO ATTACHED DIVISION 18 SPECIFICATIONS. IN CASE OF ANY CONFLICT THE MORE STRINGENT REQUIREMENT WILL APPLY.

GENERAL
THIS PROJECT WILL RECEIVE NEW 240/120 VOLT, SINGLE PHASE J WIRE, SECONDARY
SERVICE, FROM:

CLEVELAND PUBLIC POWER (C.P.P.) LAXESIDE AVENUE CLEVELAND, OHIO 44114

THE CONTRACTOR WILL NOT BE REQUIRED TO FURNISH OR INSTALL THE PRIMARY DISTRIBUTION LINES, TRANSFORMERS OR TRANSFORMER POLES. THE CONTRACTOR SHALL PROVIDE SECONDARY CONNECTIONS, FEEDERS, CONNECTION TO BRANCH CIRCUITS AND GROUNDS AS HEREIMATER SPECIFIED AND SHOWN ON THE PLANS AND ASSURE THAT ALL POWER SERVICE REQUIREMENTS WITH CPP ARE PROVIDED.

LUMINAIRES
LUMINAIRES SHALL BE AS SPECIFIED ON THE ATTACHED LICHTING FOTURE SCHEDULE. H.I.D. LUMINARES ON WILLOW AVE. BRIDGE SHALL HAVE 240V BALLASTS. INCANDESCENT LUMINARES ON WILLOW AVE. BRIDGE SHALL OPERATE AT 120V.

FIXTURE MOUNTING

FIXTURE WOUNTING SHALL BE AS DETAILED ON THE PLANS.

CONNECTOR KITS

CABLE CONNECTIONS IN JUNCTION BOXES SHALL BE ACCOMPLISHED BY THE USE OF APPROVED FACTORY PREASSEMBLED CABLE CONNECTOR KITS.

UNTIL CABLE CONNECTIONS HAVE BEEN COMPLETED, ALL CABLE CONNECTOR KITS AND EXPOSED CABLE ENDS SHALL BE ADEQUATELY PROTECTED BY ENCLOSING IN PLASTIC BAGS, TAPING OR OTHER APPROVED MEANS.

CONQUIT ON STRUCTURE
EXPANSION FITTINGS FOR LIGHTING CIRCUIT CONDUIT ON BROCE (PVC SCH, 80)
SHALL BE CARLON TYPE E945 OR E955 AS REQUIRED OR EQUAL
APPROVED BY THE ENGINEER.

CONTROL CENTERS

CONTROL CENTERS

CONTROLOR SHALL FURNISH CONTROL CENTER(S) "WA" AS SHOWN ON THE PLANS TO SERVE THE DECORATIVE LIGHTING.

THE CONTROL CENTER(S) SHALL BE A COMPLETE PACKAGE CONTAINING ALL THAT IS NECESSARY TO FUNCTION AS AN INDEPENDENT CONTROL UNIT, INCLUDING ALL INTERNAL WIRING CONNECTIONS.

THE CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE FROM THE CONTROL CENTER(S) TO THE LICHTING CIRCUITS, INSTALLED IN THE MANNER SHOWN ON THE PLANS. THIS SHALL INCLUDE FURNISHING AND INSTALLING CONDUITS, LICHTINING ARRESTOR, AND GROUNDING, ALL WRING OF THE SIZE INDICATED ON THE PLANS, AND ALL OTHER MATERIALS AND INCIDENTALS AS MAY BE REQUIRED TO COMPLETE THE WORK.

PADLOCK AND KEYS.

THE ENCLOSURES SHALL BE FURNISHED WITH A PADLOCK. THE PADLOCK SHALL BE ETHER BRASS OR BRONZE EQUAL TO MASTER NO. 4 BKA OR WILSON BOHANDON 650A AND SHALL BE KEYED IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION SECTION BAYANGRAPH J. PROMOE TWO. (2) SETS OF KEYS TO THE CITY, BUREAU OF BRIOGES AND DOCKS.

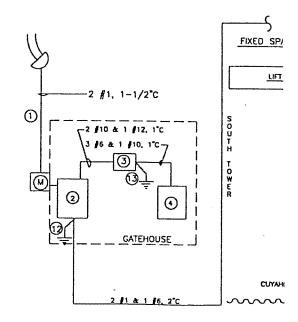
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SIDEWALK UPUCHTS		440			2 5			\mathbb{L}^{n}	8	2		0	1175	UPLICHTS 8-H102
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10A05 TR-WAS 480V	WATTS AMPS 3960			E.W.D. 3950					WRY 2	SPACE 20A				
2 10 KVA	2760						39	60			-	3	-1	P CETS. CAUR. 0 204
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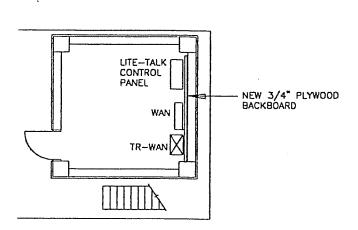
KEYED NOTES:

- 1 480V 1 PHASE SERVICE WITH METERING BY CPP.
 2 CONTROL CENTER "WA" SEE DETAIL
- (3) TR-WAS; 480V TO 240/120V 1 PHASE 3W; 10 KVA. ACME #T-2-53516-35 OR EQUAL
- (4) PANEL "WAS" SEE SCHEDULE
- 5 PANEL "WAN" SEE SCHEOULE.
- (6) TR-WAN; 480V TO 240/120V 1 PHASE 3W; 25 KVA ACHE #T-2-53518-3S OR EQUAL
- (7) EXISTING CONTROL RELAY CABINET. INSTALL AUXILIARY CONTACT (NO) AT NORTH BARRIER CATE CONTROL RELAY, RUN CONTROL WIRES 2 12, 3/4°C TO UTE-TALK CONTROL CABINET IN STORAGE ROOM ABOVE.
- (B) LITE-TALK CONTROL PANEL SEE SPECIFICATIONS.
- (9) EXISTING LIFT SPAN JUNCTION/TERMINAL BOX.

- EXISTING NORTH TOWER JUNCTION/ TERMINAL BOX.
- INSTALL 50' 20/C \$10 TYPE "50"
 CABLE TO MATCH EXISTING CABLE
 INSTALLATION. CABLE WILL BE FURNISHED
 BY THE CITY, DETAIN CABLE AT THE
 CITY CARAGE ON E. 67TH & CENTRAL
 AVENUE, COORDINATE INSTALLATION
 WITH CITY, CALL 432-5040,
- #8 GROUND, 1°C TO 10' X 3/4" DIA COPPER CLAD DRIVEN STEEL GROUND ROD, MINIMUM 2' BELOW GRADE.
- (3) #8 GROUND, 1°C, CONNECT TO SERVICE GROUND.
- #B GROUND, 1°C, CONNECT TO BUILDING SERVICE GROUND SYSTEM.



O MEDILES TANNON & BERCENDOFF MAN TO THE BANK OF THE MEDILES TANNON ARCHITECTS ENGINEERS PLANNERS MEDILES TO THE DECEMBER OF THE SAME SEC.



EXISTING CONTROL

PANELS

NEW TIMER, SEE
NOTE BELOW.
VERIFY EXACT
LOCATION WITH
EXISTING EQUIPMENT.

RAGE ROOM-2ND FLOOR
SIDE

EXISTING EQUIPMENT ROOM—1ST FLOOR

NORTH SIDE

NOTE: INSTALL NEW TORK TIME SWITCH (OR EQUAL) MODEL #DZS 200-2 IN EXISTING EQUIPMENT ROOM, WITH 2-TORK #TRP 5 RELAYS. WIRE TIMER/RELAYS TO INTERCEPT EXISTING ROADWAY LIGHTING CIRCUITS (2-240V-20A) BETWEEN EXISTING PHOTO—CELL CONTROL AND ROADWAY LIGHTS. SET TIMER TO TURN ROADWAY LIGHTS. SET TIMER TO TURN ROADWAY LIGHTING CIRCUIT OFF 5-10 MINUTES AFTER DECORATIVE LIGHTING GOES ON, AND TO TURN ON 5-10 MINUTES BEFORE DECORATIVE LIGHTING GOES OFF. SYNCHRONIZE TIMER WITH TIME SWITCH FOR CONTROL CENTER "WA". SEE ROSS DE ALESSI LIGHTING DESIGN TIME SCHEDULE.

WILLOW AVENUE BRIDGE PARTIAL PLANS

REVISIONS

DATE DESCRIPTION
5/12/96 ADDED TIMER

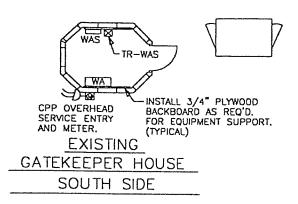
FILE NAME: Lig105.dwg

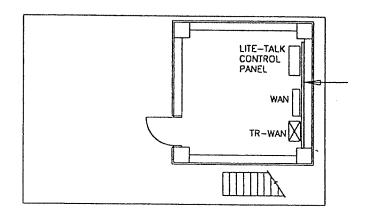
SHEET

LTG-105

NOTE:

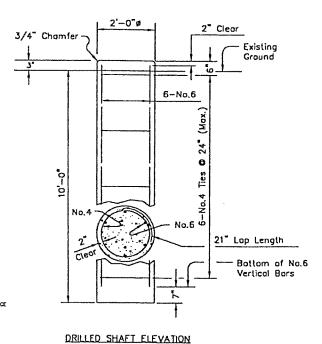
SEE DRAWING LTG-104
FOR EQUIPMENT DETAILS.





EXISTING STORAGE ROOM-2ND FLOOR NORTH SIDE

WILLOW AVENUE BRIDGE STRUCTURAL DETAILS



(Four required)

GENERAL NOTES:

1) Refer to Lighting Plan Sheets LTG-100 thru LTG-103 for Willow Avenue Bridge for additional details.

DRILLED SHAFT NOTES:

1) For location of pole foundations, see Sht. LTG-100.

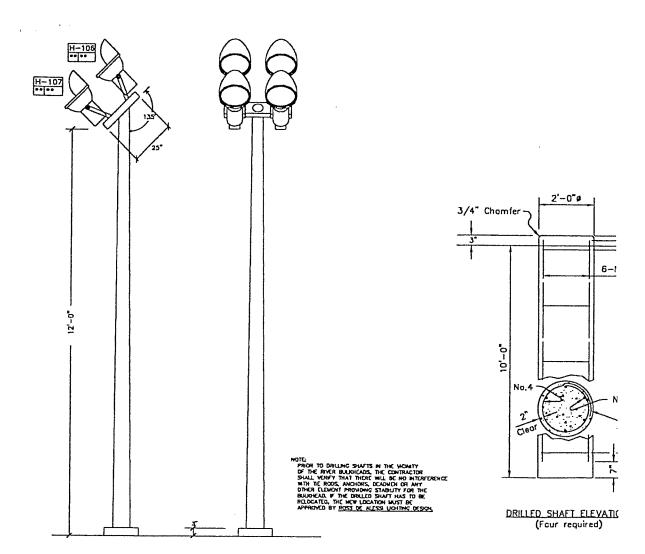
- 2) The drilled shaft design was based on an assumed anchor bolt diameter of 1" and a maximum anchor bolt circle of 18". If the anchor bolt diameter exceeds 1" or the anchor bolt circle exceeds 18", then a larger diameter shaft with some depth and similar reinforcing can be used.
- 3) For additional drilled shaft notes, see Sht. STR-101.
- 4) Use Grade 60 Epoxy coaled rebors, $f_{\rm C}^{\prime}=4,000$ psi.

REVISIONS DATE DESCRIPTION

FILE NAME: Str-100.dwg

SHEET

STR-100



POLE ELEVATION - TYPICAL

MAIN AVENUE BRIDGE Pier and Arch - Lighting Plan

PICR 7	CUYAHOGA RIVER
<u>LAN</u>	PIER 8 CUYAHOGA RIVER PIER 9 PIER 10 EAST APPROACH
PIER 7 LTG-101	1 CUYAHOGA RIVER PIER 8 PIER 9 PIER 10 EAST APPROACH SHEET LTG-102 SHEET LTG-103
<u>ION</u>	

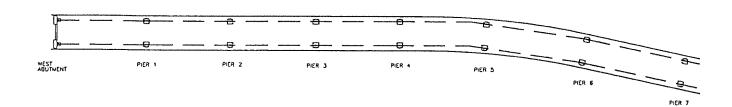
REVISIONS DATE DESCRIPTION DRAWN BY: WJV

DATE: 3/18/98 SCALE: 1" = 100"

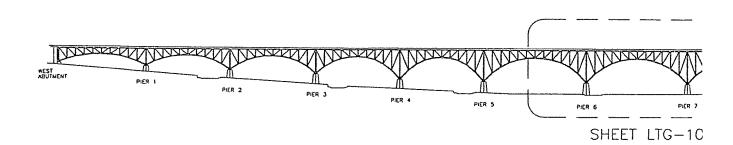
SHEET

PAGES! 14

LTG-100

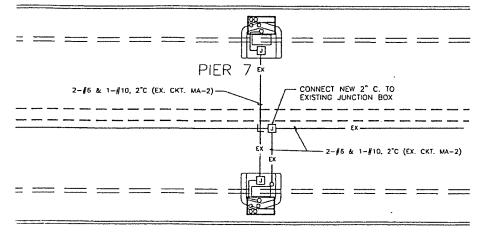


SITE PLAN



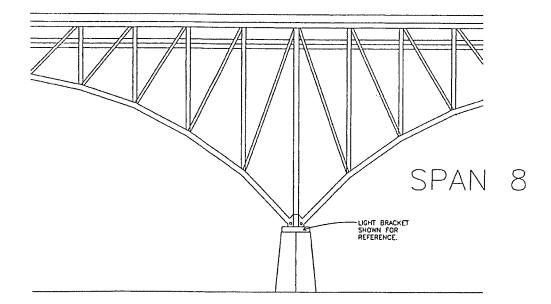
ELEVATION

TYPE "C" SEE DETAIL 3 - SHEET LTG-104



TYPE "D" SEE DETAIL 4 - SHEET LTG-104

NOTE: (10) NEW LIGHTING FIXTURES AT PIER 7
SHALL BE CONNECTED TO EXISTING CKT. MA-2.
CKT. MA-2 SHALL BE EXTENDED FOR (8) NEW
LIGHTING FIXTURES AT PIER 6.



ELEVATION

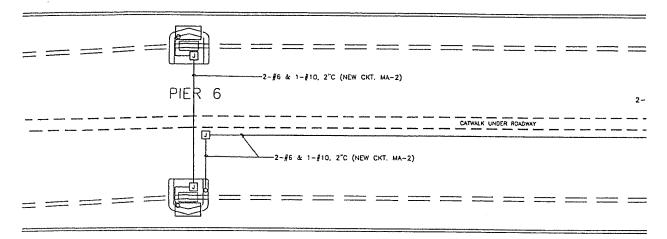
MAIN AVENUE BRIDGE

REVIS	ONS
DATE	DESCRIPTION
DATE:	3/18/98
SCALE	1/16"=1'~0"

SHEET

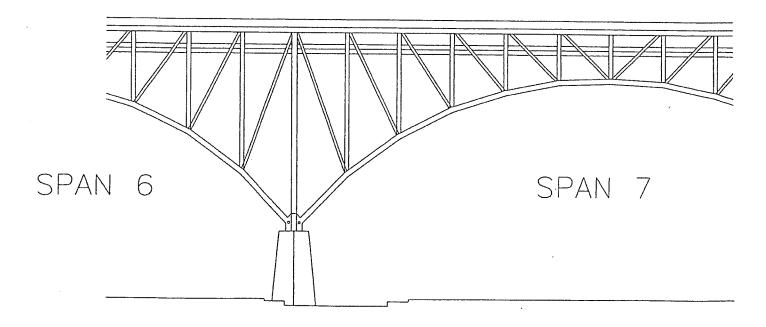
LTG-101

TYPE "8" SEE DETAIL 2 - SHEET LTG-104

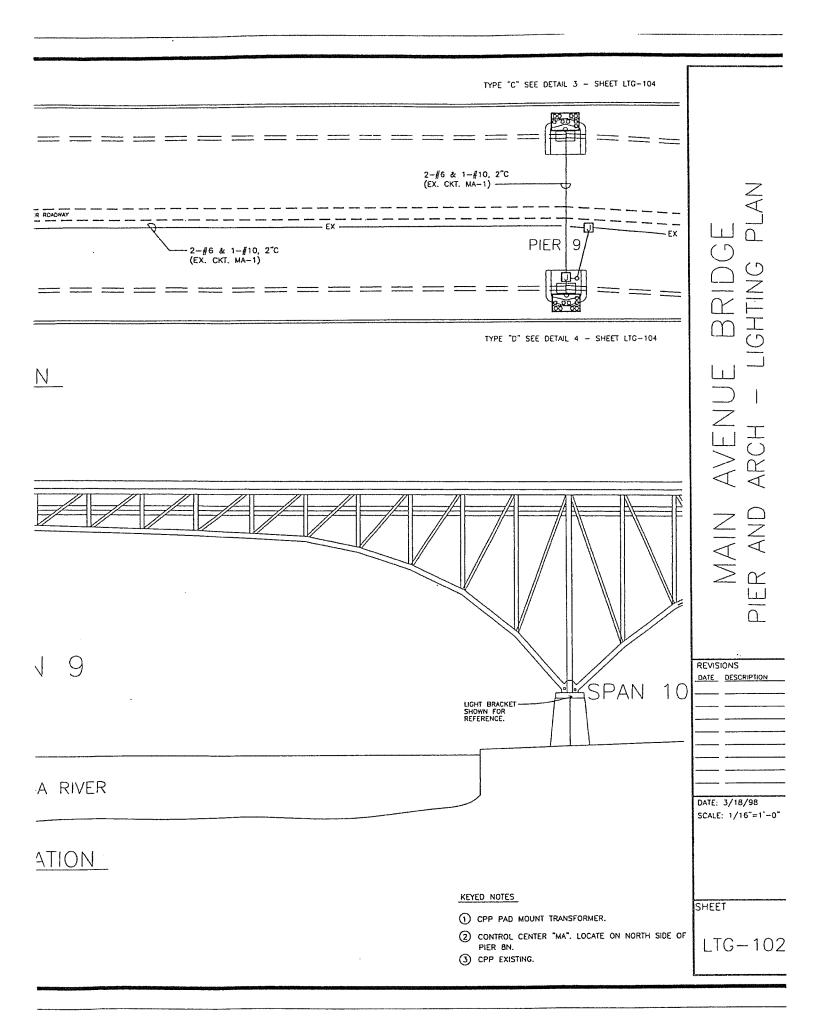


TYPE "A" SEE DETAIL 1 - SHEET LTG-104

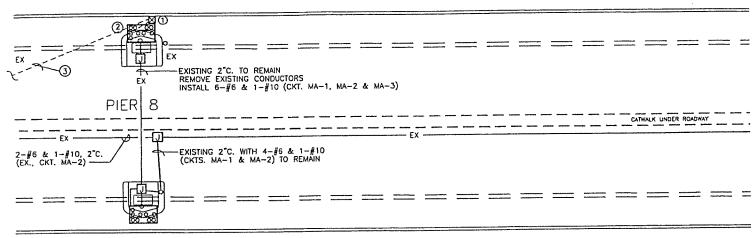
PLAN



ELEV



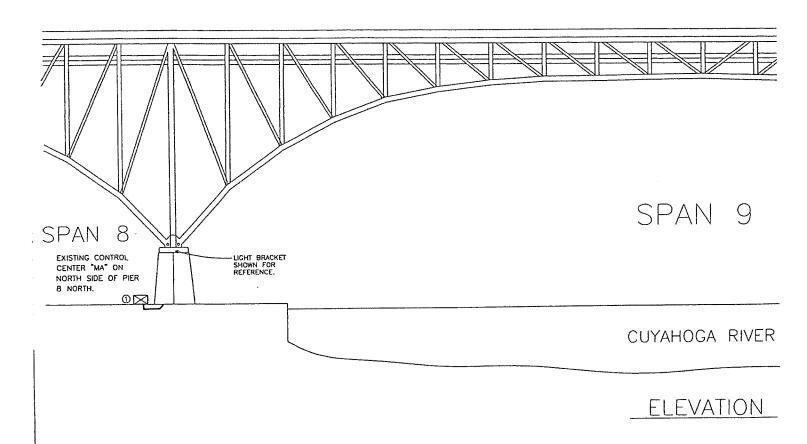
TYPE "D" SEE DETAIL 4 - SHEET LTG-104



TYPE "C" SEE DETAIL 3 - SHEET LTG-104

PLAN

NOTE: (18) EXISTING LIGHTING FIXTURES ON PIER 8 SHALL BE REMOVED FROM CKT. MA-2 AND CONNECTED TO CKT. MA-3.



MAIN AVENUE BRIDGE PIER AND ARCH - LIGHTING PLAN

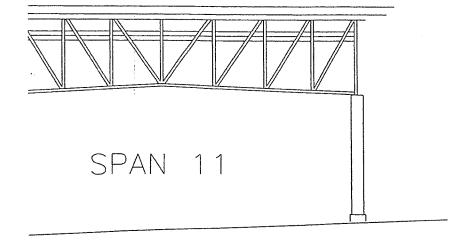
REVIS	IONS
DATE	DESCRIPTION
i	

DRAWN BY: WJV
DATE: 3/18/98
SCALE: 1/16"=1"-0"

SHEET

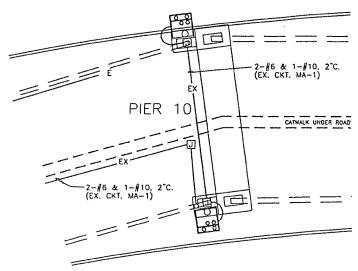
LTG-103

	= 1	
1-#10, 2°C. . MA-1)		
	EAST A	PPROACH
ATWALK UNDER ROADWAY		
		P ₁ ¢
LTG-104		
PLAN		
i		



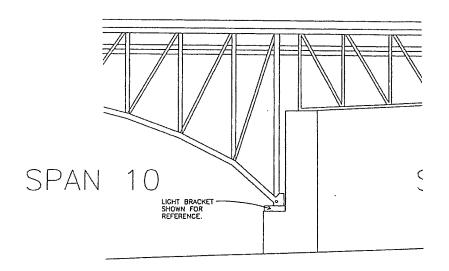
EVATION

TYPE "E" SEE DETAIL 5 - SHEET LTG-104

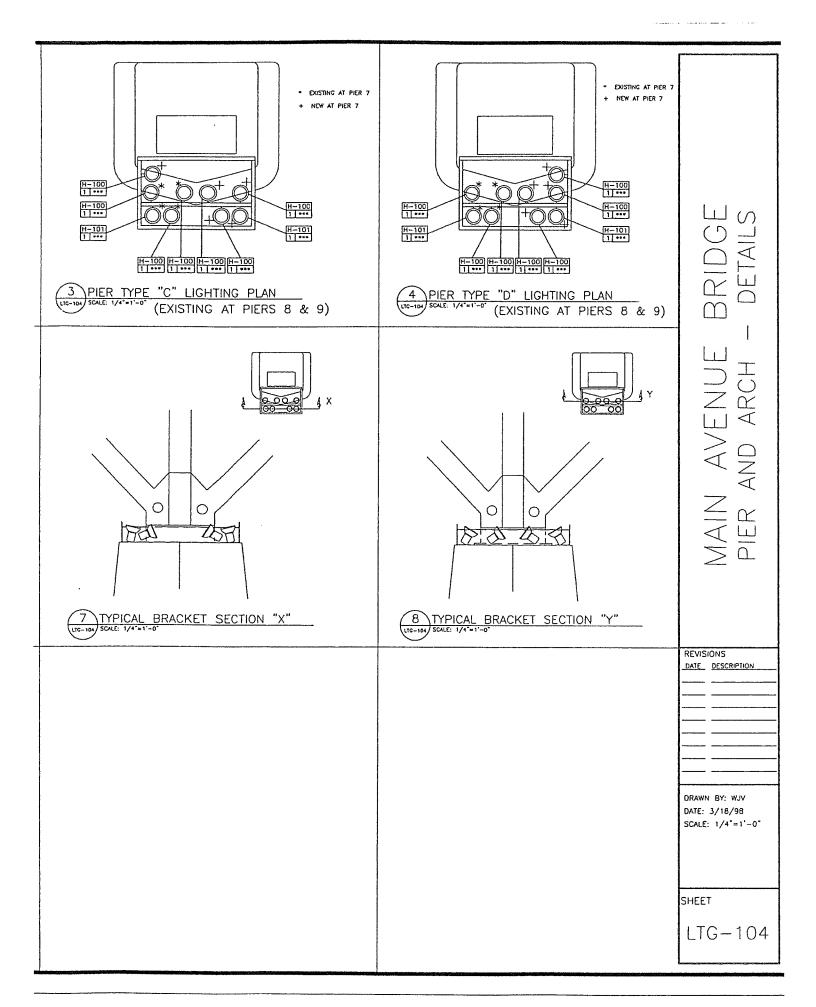


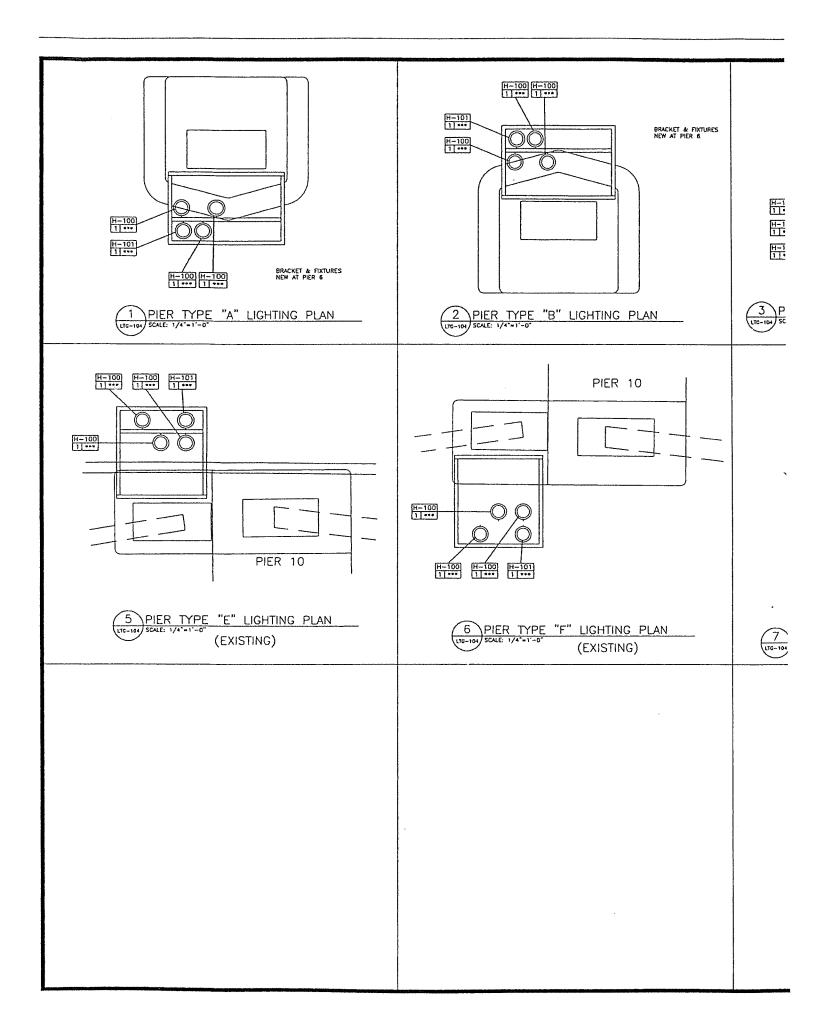
TYPE "F" SEE DETAIL 6 - SHEET LTG-104

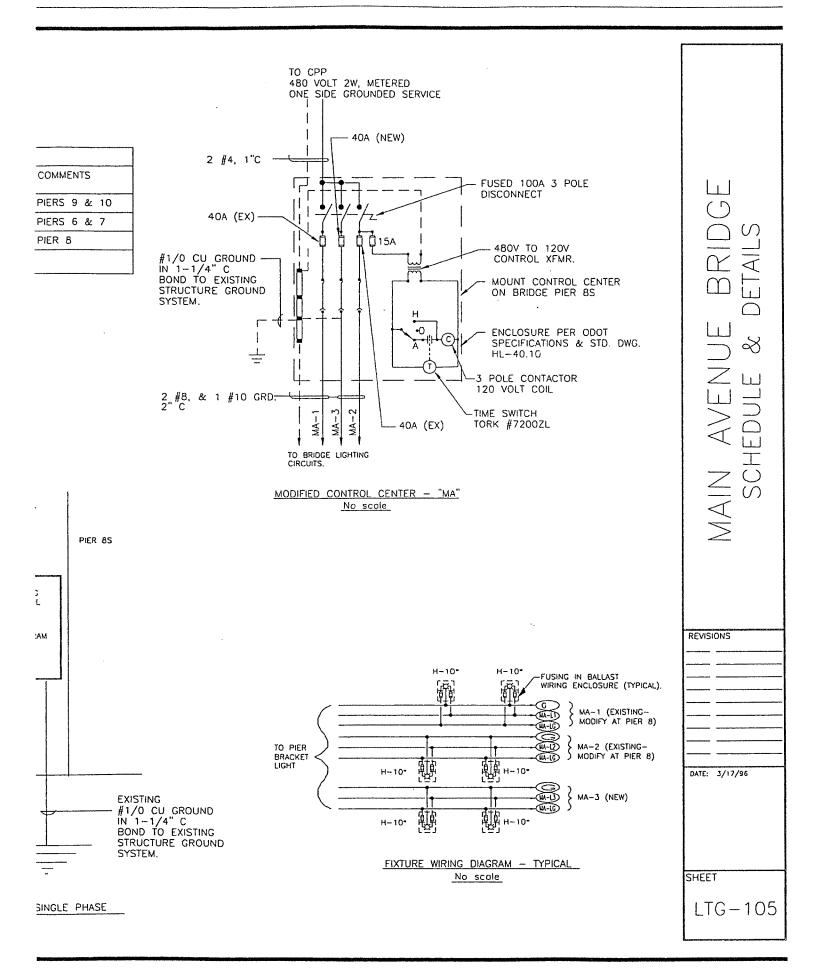
PLAN



ELEVATI







DECORATIVE LIGHTING NOTES-MAIN AVENUE

PECIFICATIONS THESE NOTES ARE SUPPLEMENTAL TO ITEMS 625 AND 713 OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.

GENERAL
THIS PROJECT IS SERVED BY A 480 VOLT, SINGLE PHASE 2 WIRE, SECONDARY SERVICE, WITH ONE SIDE GROUNDED FROM:

CLEVELAND PUBLIC POWER (C.P.P.) LAKESIDE AVENUE

CLEVELAND, OHIO 44114

THE CONTRACTOR WILL NOT BE REQUIRED TO FURNISH OR INSTALL THE PRIMARY DISTRIBUTION LINES, TRANSFORMERS OR TRANSFORMER POLES. THE CONTRACTOR SHALL PROVIDE SECONDARY CONNECTIONS, FEEDERS, CONNECTION TO BRANCH CIRCUITS AND GROUNDS AS HEREINAFTER SHOWN ON THE PLANS AND ASSURE THAT ALL ROUSE SECURICE PERHIPS WITH CORP AND ROUNDED. POWER SERVICE REQUIREMENTS WITH CPP ARE PROVIDED.

LUMINAIRES
LUMINAIRES SHALL BE AS REQUIRED TO MATCH THE EXISTING INSTALLATION. LUMINAIRES ON THE NEW 480V 1 PHASE SERVICE SHALL HAVE 480V BALLASTS AND BE INDIVIDUALLY FUSED WITH FUSE KITS IN BALLAST WIRING ENCLOSURES. FUSES SHALL BE GOULD SHAWMUT TYPE ATQ (3 AMPERES) IN A GEB-11-11 IN LINE FUSEHOLDER OR EQUAL BY BUSMANN OR LITTLE FUSE.

FIXTURE MOUNTING BRACKETS

MOUNTING BRACKETS SHALL BE AS DETAILED ON SHT. STR-100.

ATTACHMENT OF ENCLOSURES TO CONCRETE ENCLOSURES SHALL BE MOUNTED IN SAME MANNER AS BRACKETS EXCEPT USE APPROPRIATE SIZE BOLTS AND ANCHORS FOR MOUNTING HOLES. ANCHOR BOLTS SHALL HAVE A MINIMUM PULL OUT CAPACITY OF 2,000 POUNDS.

CONNECTOR KITS

CABLE CONNECTIONS IN ENCLOSURES SHALL BE ACCOMPLISHED BY THE USE OF APPROVED FACTORY PREASSEMBLED CABLE CONNECTOR KITS.

UNTIL CABLE CONNECTIONS HAVE BEEN COMPLETED, ALL CABLE CONNECTOR KITS AND EXPOSED CABLE ENDS SHALL BE ADEQUATELY PROTECTED BY ENCLOSING IN PLASTIC BAGS, TAPING OR OTHER APPROVED MEANS.

CONDUIT ON STRUCTURE

EXPANSION FITTINGS FOR DECORATIVE LIGHTING CIRCUIT CONDUIT ON STRUCTURES SHALL BE 0Z TYPE AX, CROUSE HINDS TYPE XJ-4, APPLETON TYPE XJ-4 OR EQUAL APPROVED BY THE ENGINEER, FOR EXPANSIONS NOT EXCEEDING 4 INCHES AND 0Z TYPE AX-8 OR EQUAL APPROVED BY THE ENGINEER, FOR EXPANSIONS EXCEEDING 4 INCHES.

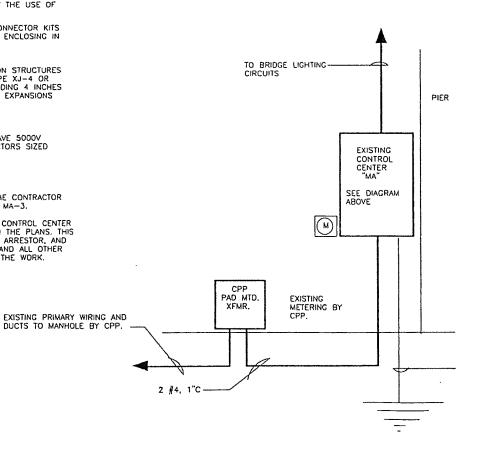
CARLE AND WIRE

ALL CONDUCTORS SIZED #8 OR LARGER ON THE BRIDGE SHALL HAVE 5000V INSULATION MEETING THE REQUIREMENTS OF TYPE MV-90, CONDUCTORS SIZED #10 OR SMALLER SHALL BE TYPE XHHW.

CONTROL CENTER
THE CONTROL CENTER AND FUSED DISCONNECT ARE EXISTING. THE CON SHALL INSTALL A NEW 40 A. FUSE IN THE DISCONNECT FOR CKT. MA-J. THE CONTRACTOR

THE CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE FROM THE CONTROL CENTER TO THE LIGHTING CIRCUITS, INSTALLED IN THE MANNER SHOWN ON THE PLANS. THIS SHALL INCLUDE FURNISHING AND INSTALLING CONDUITS, LIGHTINING ARRESTOR, AND GROUNDING, ALL WIRING OF THE SIZE INDICATED ON THE PLANS, AND ALL OTHER MATERIALS AND INCIDENTALS AS MAY BE REQUIRED TO COMPLETE THE WORK.

CONTROL CENTER "MA" 480V 1ø						
CIRCUIT	FUSE SIZE	VA	400W MH	COMMENTS		
MA-1	40A	13,416	26	PIERS 9 &		
MA-2	40A	13,416	26	PIERS 6 &		
MA-3	40A	9,288	18	PIER 8		
TOTAL		36,120	70			



SINGLE LINE DIAGRAM - 480V SINGLE PHASE

No scole

HOWARD NEEDLES TAMMEN & BERGENDOFF

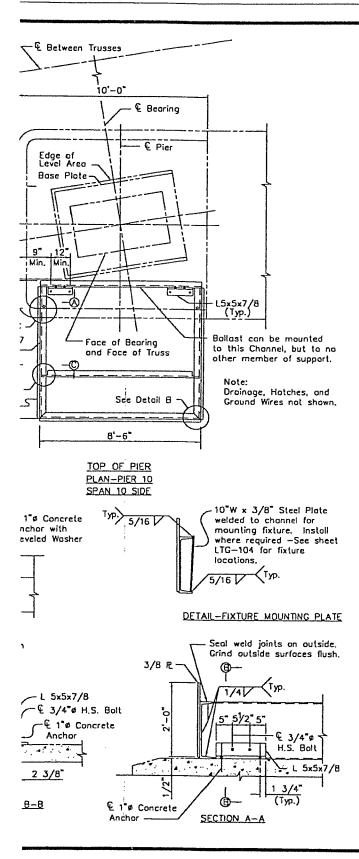
UADC 8Y: JCS DATE: J/13/98

DRAWN 8Y: W.V. DATE: J/17/98

CHECKED BY: KOJ DATE: J/17/98

SCALE: NONE

J \x085\29131\TECHPROO\DRAWNCS\LYC-105



SUGGESTED CONSTRUCTION SEQUENCE

a.) Contractor shall non-destructively locals reinforcement on top of pier cap at L's 5x5x7/8. The angle may be moved in the North South direction to dear reinforcing, but should be kept as clase as possible to the East West MC18x42.7's. The bracket may be moved about an Inch in the East or West direction to clear reinforcing.

b.) Orill holes for concrete anchors.

- c.) Drill holes in L5x5x7/8 for the concrete onchors and the high strength bolts. The holes for the high strength bolts shall be centered between the concrete anchors.
- d.) Boll the L5x5x7/8 to the plar top.
- e.) Set the support bracket adjacent to the angles and drill holes in the channel and fasten it to the angle.
- f.) Since the 12" minimum specing cannot be guaranteed to clear reinforcing, the Contractor may wish to have angles longer than $1^{2}-3$ $1/2^{2}$. The following guidelines shall be followed if the anchor bolt spacing is greater than 12 in. :
 - 1.) The angle shall be cut to provide a 1 $3/4^{\circ}$ edge distance from the ξ of the concrete anchors. 2.) For 3/4"s high strength boils fastening the
 - L5x5x7/8 to the channel:
 - a.) Moximum edge distance = 5 in.
 - b.) Minimum spacing = 2 1/2 in. c.) Maximum spacing - 5 3/4in.
 - d.) High strength bolts shall be centered
 - between and shall clear the concrete anchors.
 - e.) Three high strength bolts may be needed to meet the above requirements.
- g.) Install concrete anchors shown in Detail C.
- h.) The Contractor may submit an alternate procedure to the engineer for approval.

NOTES:

- 1.) The 1 Concrete anchors shall have a safe-working tood of 6.0 kips in tension in concrete with on fc=3000 psi. The onchors shall be placed to meet the manufacturer's minimum edge distance and spacing criteria, if larger than that shown in the plans. Embedment length shall meet the manufacturer's criteria.
- 2.) Prior to fabrication, the Contractor shall verify that the brockets will not be installed on the chamfers and that the distance from the base plate to the pier corners on the side of the brocket is 1'-6/8'' feet minimum. If this criteria is not met, adjustments to the design may be required. Payment for these field measurements shall be made under "MAIN AVENUE-UGHTING SYSTEM, INSTALLED."
- 3.) Refer to lighting plon sheets LTG-100 thru LTG-104 for the Moin Avenue bridge for additional details.
- 4.) All structural steel shall be ASTM A36.
- 5.) All bolts shall be 3/4"# ASTM A325 high strength bolts.
- 6.) All steel shall be painted to match the color of the piers. Point system shall be ODOT's IZEU system. Final color selection shall be approved by the Engineer. Payment to pointing shall be included under "MAIN AVENUE-LIGHTING SYSTEM, INSTALLED."
- 7.) All welding shall conform to current AWS specifications.
- 8.) Contractor may have to relocate ground wires. Payment for the relocations shall be made under "MAIN AVENUE" LIGHTING SYSTEM, INSTALLED."

MAIN AVENUE tructural detail

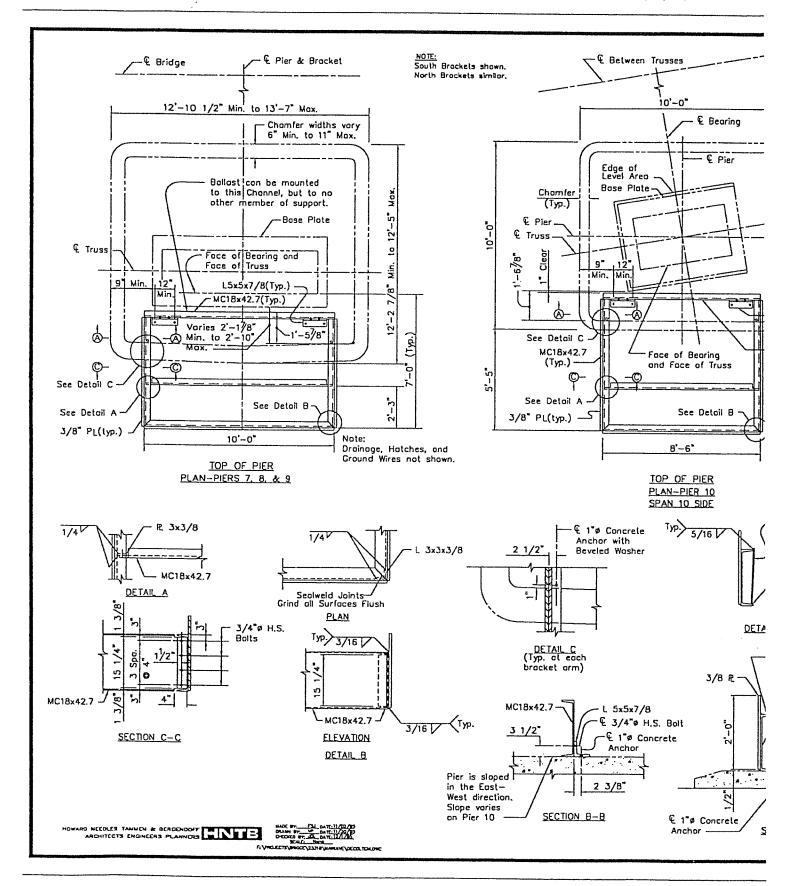
REVIS	ONS
DATE.	DESCRIPTION

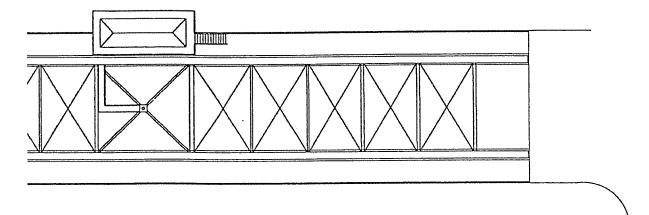
DATE: 3/05/95

FILE NAME: Decollgm.dwg

SHEET

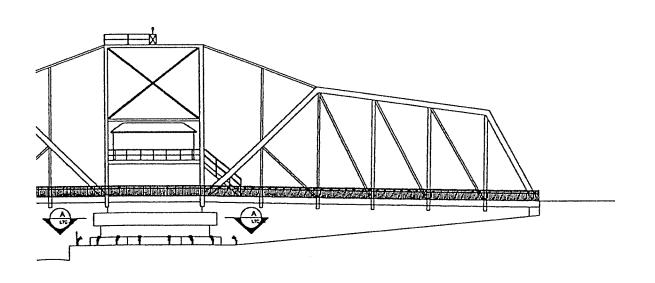
STR-100





GENERAL NOTES:

1. REMOVE ALL CHRISTMAS LIGHTS ON MOVING SECTION.



Ross De Alessi Lighting Design 2013-Second America Scribs 200 Section, Sturrington 20121 (200) 441-0970 (204) 441-0978 Fee

CENTER STREET DECORATIVE LIGHTING

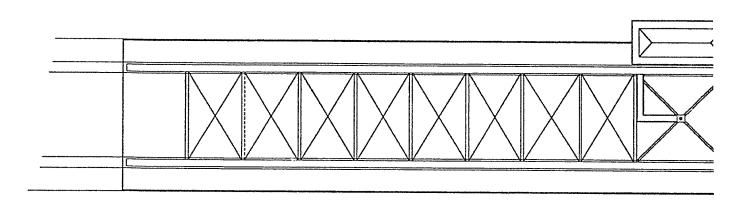
REVISIONS DATE DESCRIPTION 3/1/83 DCDOX DCYCLD*940/T

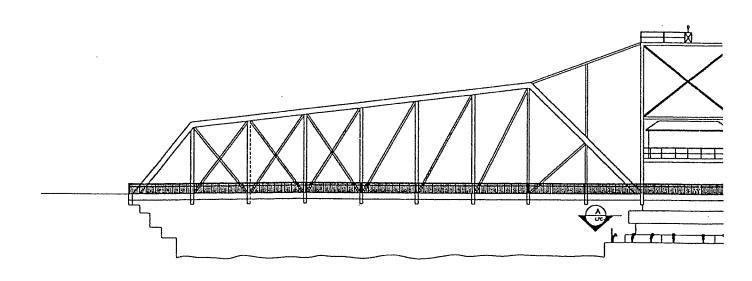
DRAWN BY: B.K.L. DATE: 11/1/95 SCALE: 3/32"=1'-0"

FILE NAME: Llg-1.dwg

SHEET

PAGES! 10





Ross De Aless

Lighting Desig 2013-Santa America Scale 2 Sanita, Washington 80121 (201) 441-0070 (201) 441-0076 Fee

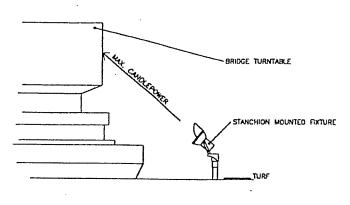


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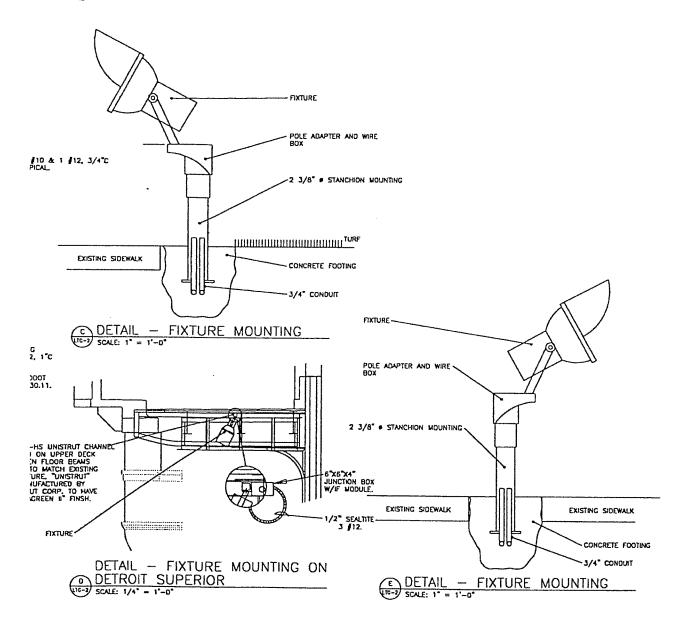
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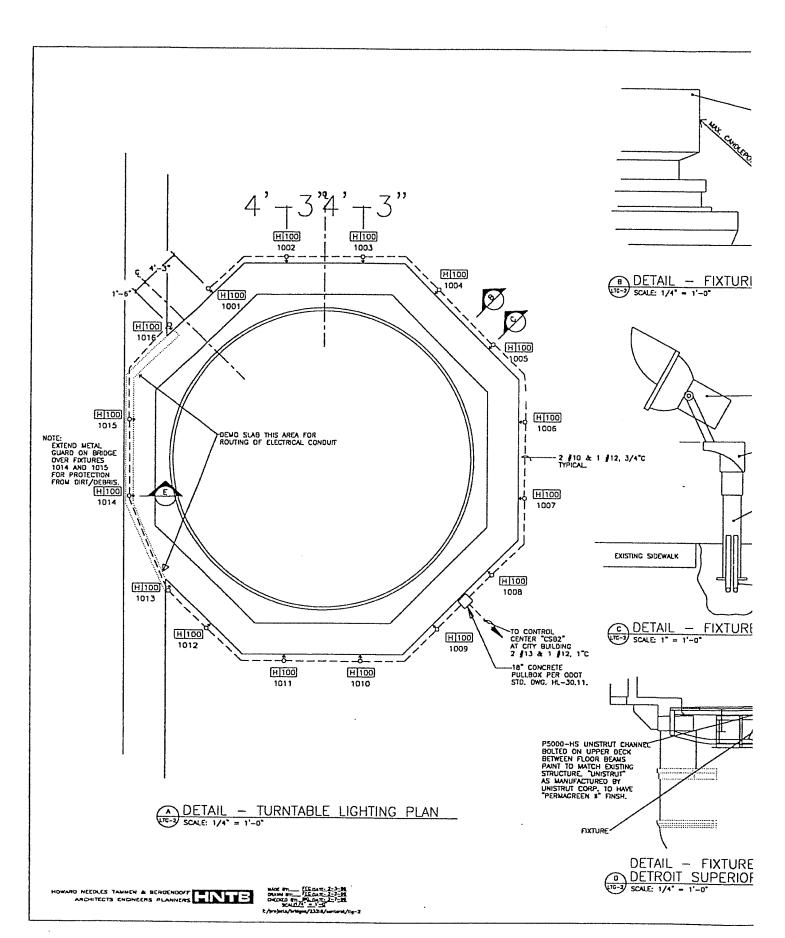
LTG-2



B DETAIL - FIXTURE ELEVATION : SCALE: 1/4" = 1'-0"



ON HAS BEEN SCALED BY 2



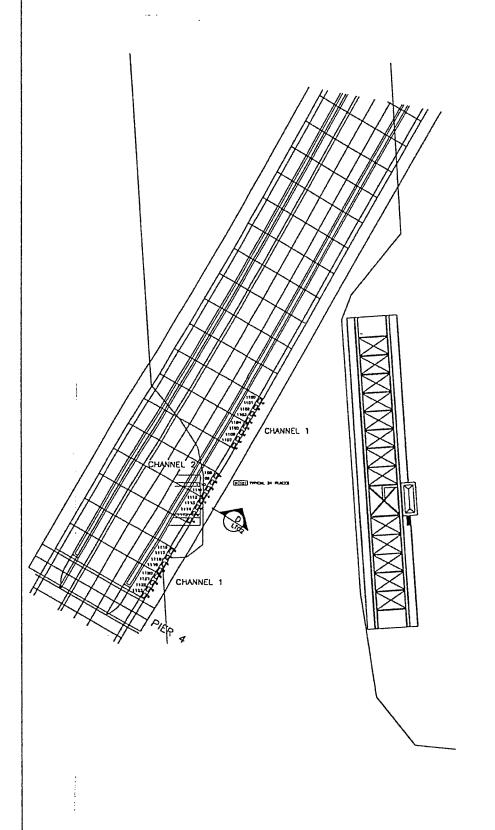
Ross De Alessi Lighting Design 2013-Second Avenue Saide 200 Seattle, Bearingles Bell 21 (709) 441-0270 (709) 441-0226 Fee

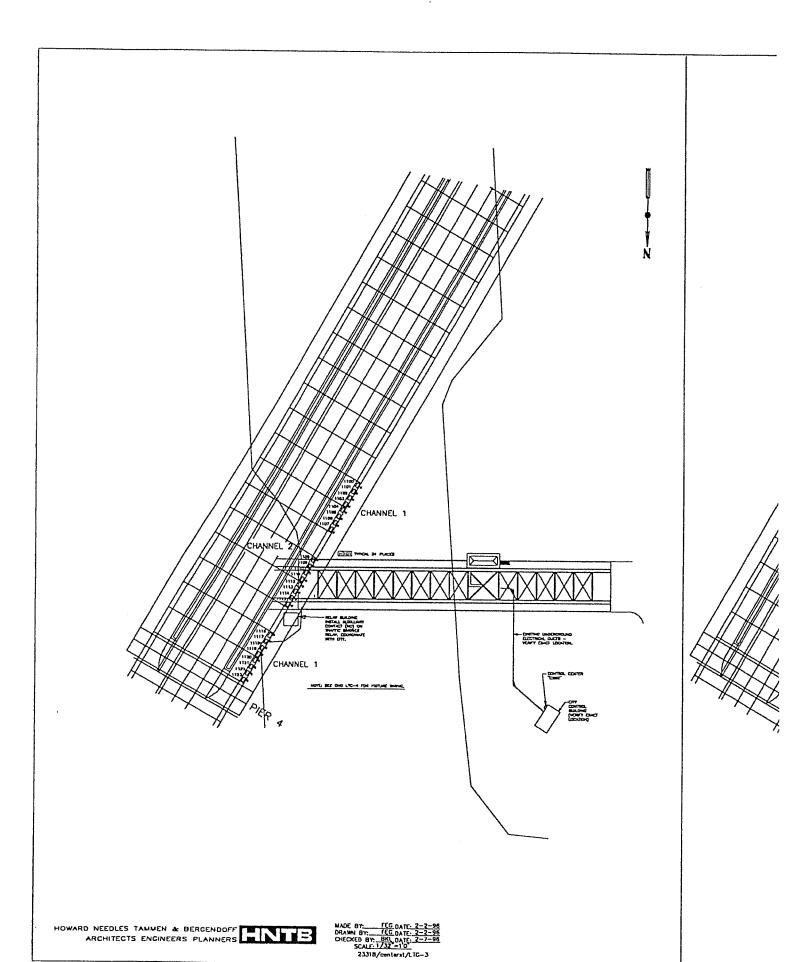
DRAWN BY: B.K.L DATE: 11/1/95 SCALE: 1/32"=1'-0"

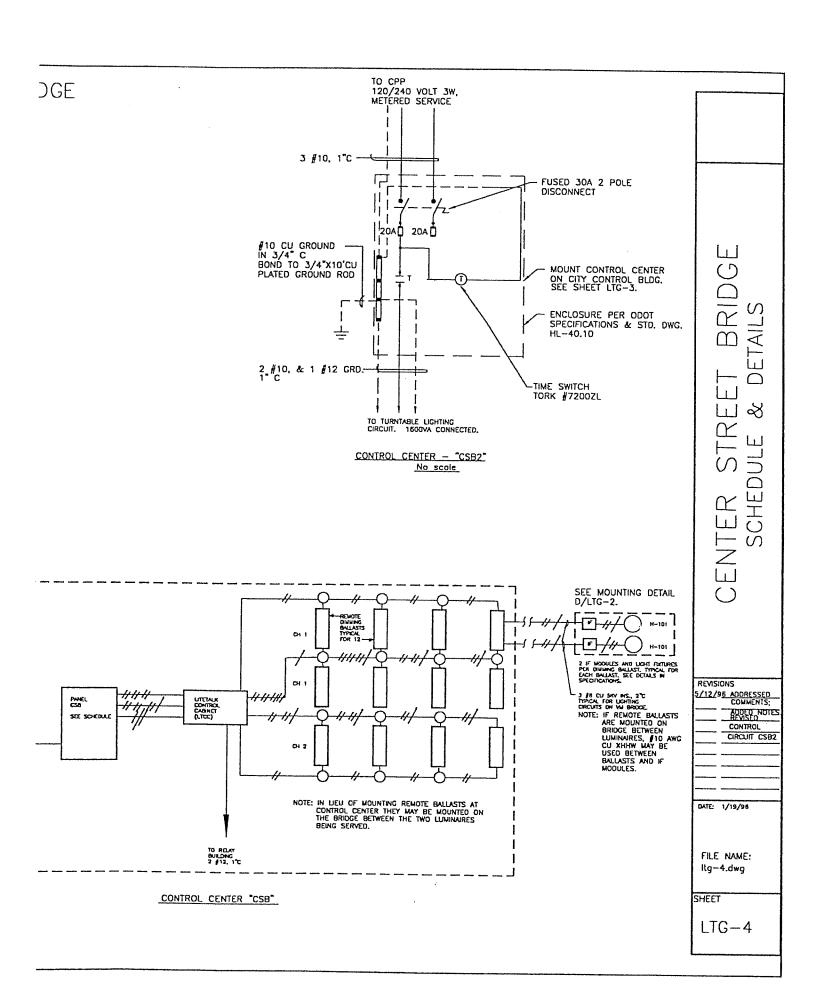
FILE NAME: Ltg-3.dwg

SHEET

LTG-3







DECORATIVE LIGHTING NOTES-CENTER STREET BRIDGE

SPECIFICATIONS.

THESE NOTES ARE SUPPLEMENTAL TO ITEMS 625 AND 713 OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS AND TO ATTACHED OVISION 16 SPECIFICATIONS. IN CASE OF ANY CONFLICT THE MORE STRINGENT REQUIREMENT WILL APPLY.

GENERAL
THIS PROJECT WILL RECEIVE NEW 120/240 VOLT, SINGLE PHASE 3 WIRE, SECONDARY
SERVICES, FROM:

CLEVELAND PUBLIC POWER (C.P.P.) LAXESIDE AVENUE CLEVELAND, OHIO 44114

THE CONTRACTOR WILL NOT BE REQUIRED TO FURNISH OR INSTALL THE PRIMARY DISTRIBUTION LINES, TRANSFORMERS OR TRANSFORMER POLES. THE CONTRACTOR SHALL PROVIDE SECONDARY CONNECTIONS, FEEDERS, CONNECTION TO BRANCH CIRCUITS AND GROUNDS AS HEREINAFTER SPECIFIED AND SHOWN ON THE PLANS AND ASSURE THAT ALL POWER SERVICE REQUIREMENTS WITH CPP ARE PROVIDED.

LUMINAIRES SHALL BE AS SPECIFIED ON THE ATTACHED LIGHTING FOTURE SCHEDULE. LUMINAIRES ON THE NEW 120/240V 1 PHASE SERVICE ON VETERANS MEMORIAL BRIDGE SHALL HAVE 240V BALLASTS. LUMINAIRES ON THE NEW 120/240V 1 PHASE TURNTABLE SERVICE SHALL HAVE 120V BALLASTS.

EXISTING LUMINARES

AFTER COMPLETION AND ACCEPTANCE OF CENTER STREET BRIDGE LIGHTING LOCATED ON VETERANS MEMORIAL BRIDGE THE CONTRACTOR SHALL TURN OFF POWER TO ROADWAY WALL PACK LIGHTING UN ON THE SWING SPAN SECTION WHICH SHALL REMAIN AS A BACK-UP SYSTEM, COORDINATE WITH CITY.

FIXTURE MOUNTING SHALL BE AS DETAILED ON THE PLANS.

CONNECTOR KITS

CABLE CONNECTIONS IN JUNCTION BOXES SHALL BE ACCOMPUSHED BY THE USE OF APPROVED FACTORY PREASSEMBLED CABLE CONNECTOR KITS.

UNTIL CABLE CONNECTIONS HAVE BEEN COMPLETED, ALL CABLE CONNECTOR KITS AND EXPOSED CABLE ENDS SHALL BE ADEQUATELY PROTECTED BY ENCLOSING IN PLASTIC BACS, TAPING OR OTHER APPROVED MEANS.

CONDUIT ON STRUCTURE EXPANSION FITTINGS FOR DECORATIVE LIGHTING CIRCUIT CONDUIT ON STRUCTURES SHALL BE DOZ TYPE AJ., CROUSE HINDS TYPE XJ.-4, APPLETON TYPE XJ.-4 OR EQUAL APPROVED BY THE ENGINEER, FOR EXPANSIONS NOT EXCEEDING 4 INCHES AND DOZ TYPE AX.-B OR EQUAL APPROVED BY THE ENGINEER, FOR EXPANSIONS EXCEEDING 4 INCHES.

CONTROL CENTERS
CONTRACTOR SHALL FURNISH CONTROL CENTER MA AS SHOWN ON THE PLANS TO
SERVE THE PIER BRACKET LICHTS. THE EXISTING CONTROL CENTERS AT THE CITY
BUILDING SHALL SERVE THE TURNTABLE LICHTS.

THE CONTROL CENTER SHALL BE A COMPLETE PACKAGE CONTAINING ALL THAT IS NECESSARY TO FUNCTION AS AN INDEPENDENT CONTROL UNIT, INCLUDING ALL INTERNAL WIRING CONNECTIONS.

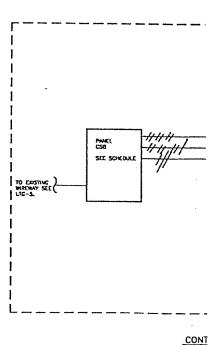
THE CONTROL ENCLOSURE SHALL BE A MINIMUM NEMA CLASS 4X CORROSION RESISTANT, AND HAVE PROVISIONS FOR A PADLOCK AND INCLUDE BRACKETS FOR WALL MOUNTING INCLUDING ALL NECESSARY HARDWARE.

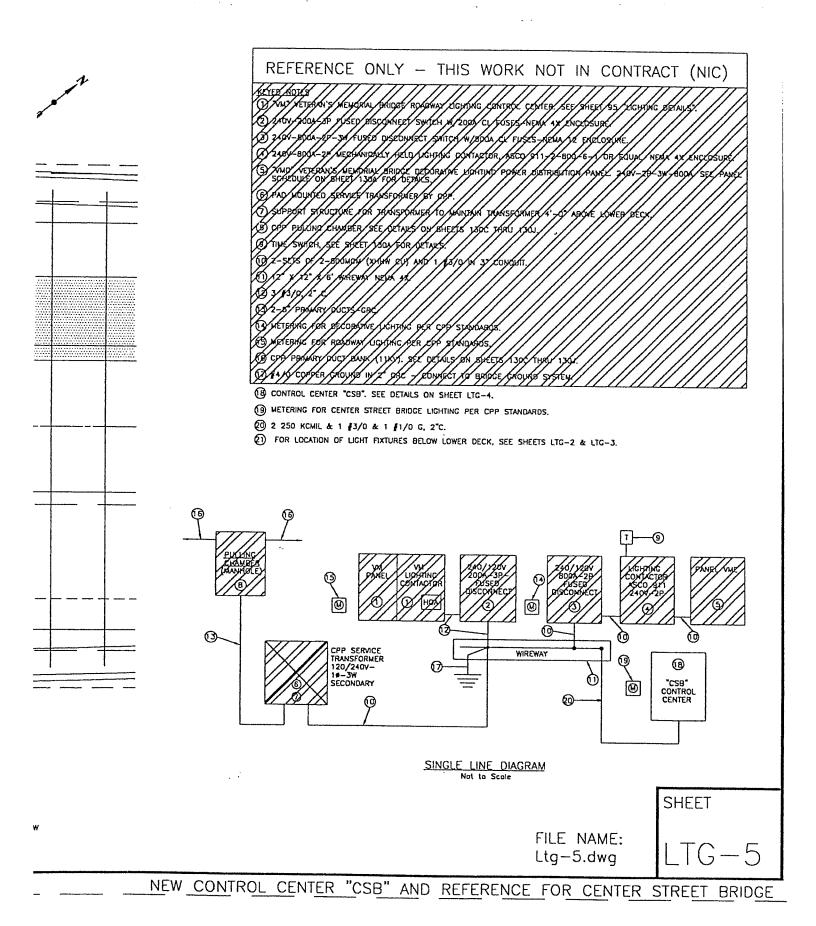
THE CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE FROM THE CONTROL CENTER TO THE UGHTING CIRCUITS, INSTALLED IN THE MANNER SHOWN ON THE PLANS. THIS SHALL INCLUDE FURNISHING AND INSTALLING CONDUIRS, LICHTMING ARRESTOR, AND GROUNDING, ALL WIRING OF THE SIZE INDICATED ON THE PLANS, AND ALL OTHER MATERIALS AND INCIDENTALS AS MAY BE REQUIRED TO COMPLETE THE WORK.

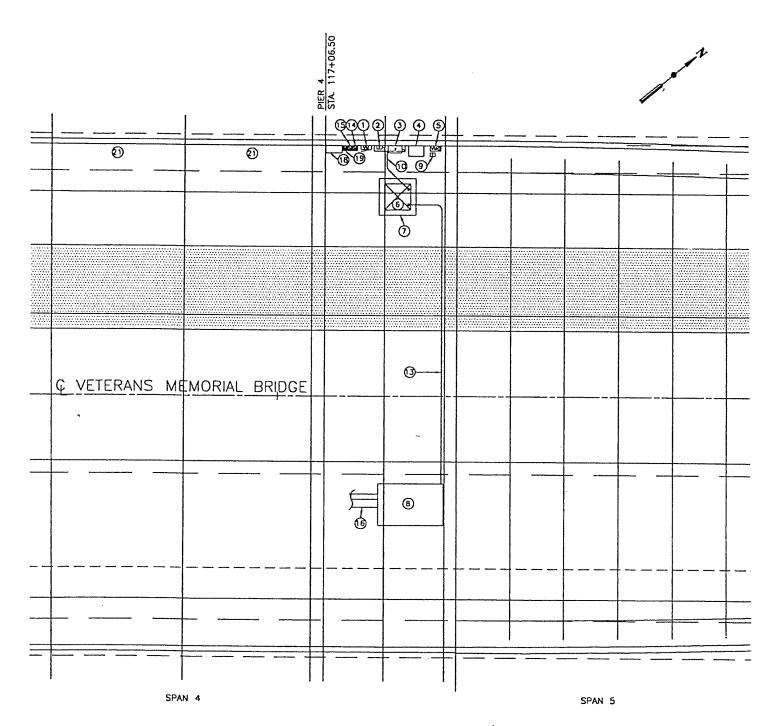
PADLOCK AND KEYS.

THE ENCLOSURES SHALL BE FURNISHED WITH A PADLOCK. THE PADLOCK SHALL BE EITHER BRASS OR BRONZE EQUAL TO MASTER NO. 4 BKA OR WILSON BOHANNON 660A AND SHALL BE KEYED IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION SECTION B44.10(4). PARAGRAPH 3. FURNISH TO THE CITY, BUREAU OF DOCKS AND BRIDGES TWO (2) SETS OF KEYS.

			~	J176 3	~ ~					nt.Hat.	KAIPH	۰	1304	MCB PANKEL NO. CSB
DESCRIPTION		VA	DCT	CMD	Si					A DA	0	a	VA	DESCRIPTION
DIMMING BALLASTS - C	SWHEL 1	1920	6		2 1	10		10	2		12	7	1920	2 DHUNG BULLSTS - CHANNEL
LAMPS - WA LTCC		1920	_		0 3	T_{\circ}		$T \sim$	4	0	-+0	ッ	1920	4 LULOS - WA LTCC
DIMMENO BALLASTS C	SHANNEL 1	1920	<u>-(3)</u>		2 5	T_{\sim}		$T \sim$	8	2	10	N	1920	2 DIWHING BALLASTS - CHANNEL
LAMPS - WA LTCC		1970	9		0	$\mathbf{I}_{\mathcal{O}}$	1	$\Gamma \wedge$	8	0	7	প্	1970	4 LAMOS - MA LTCC
2 DIMANG BALLASTS - C	SHAHEL 1	1920	-(3)		5 8	\mathbb{I}_{\cap}		$\Gamma \cap$	10	2	10	$\overline{}$		SPARE
LAMPS - WA LTCC		1920	9		0			$\Gamma \sim$	12	0	76	דע		·
DIMMING BALLASTS - E	SHANKE 1	1920	(7)-		31			$I \sim$	14		10	М		SAME
SPACE		1920			015	\mathbb{Z}		Γ	16	0	٦٠	די		
SPACE			 (9)		17	\sim	1	\Box	10		10	ōΤ	300	LTCC CONTROL POWER
SPACE		-			11			\sim	20	70	1	2		SPARE
SALL			- €		2		4	$1 \sim$	22	_		4		SPACE
		ـــــا		L	2	, L		\sim	24	1.	٠	_		SPACE
LOADS	WATTS			AMPS			עב				•		LARY	1 - 2P 150A WAN C/B
Li	11,820							•••				-		•
LŽ	11,820					-			_				-1	P OCTS. CAUB. 8 ZGA
u						-			-			_8	-7	P CCTS. CAUB. 0 ZOA
									_					P CCTS. CAUR. 0
TOTAL CONNECTED	23,340			97/6A	4	_	15,43	MO						P CCTS. CAUB. 0
SPACES & SOX CAL														P CCTS. CAUR. 0
TOTAL						_			_					_P CCTS. CAUR. •
						-			_					P SPACES





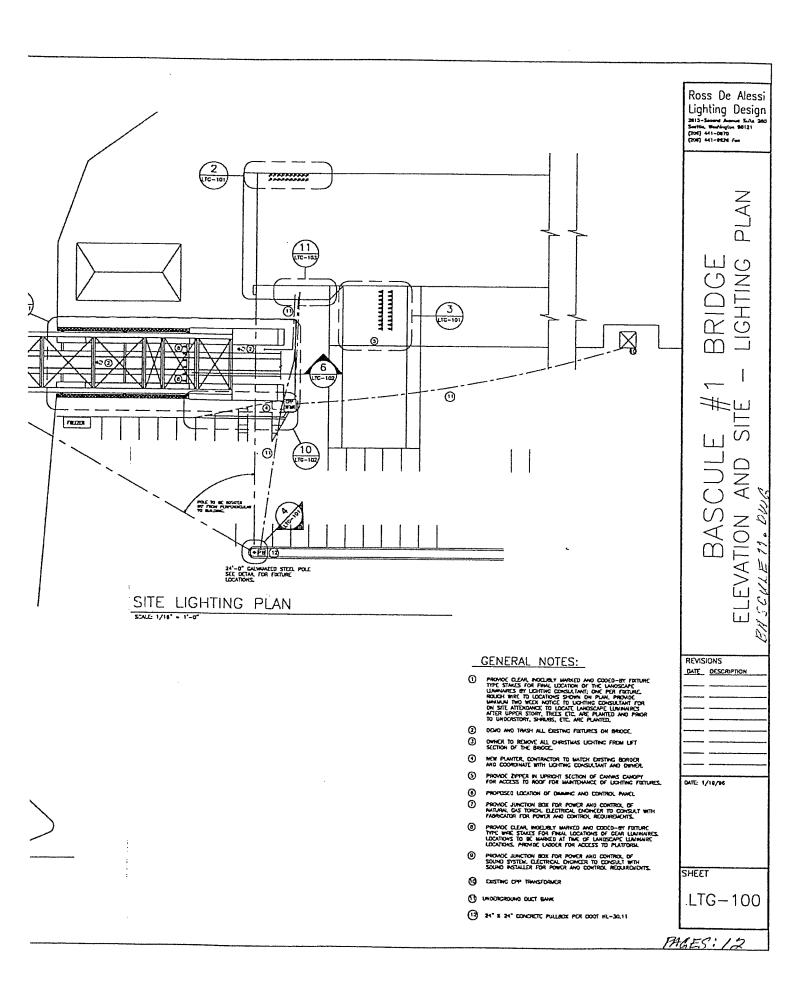


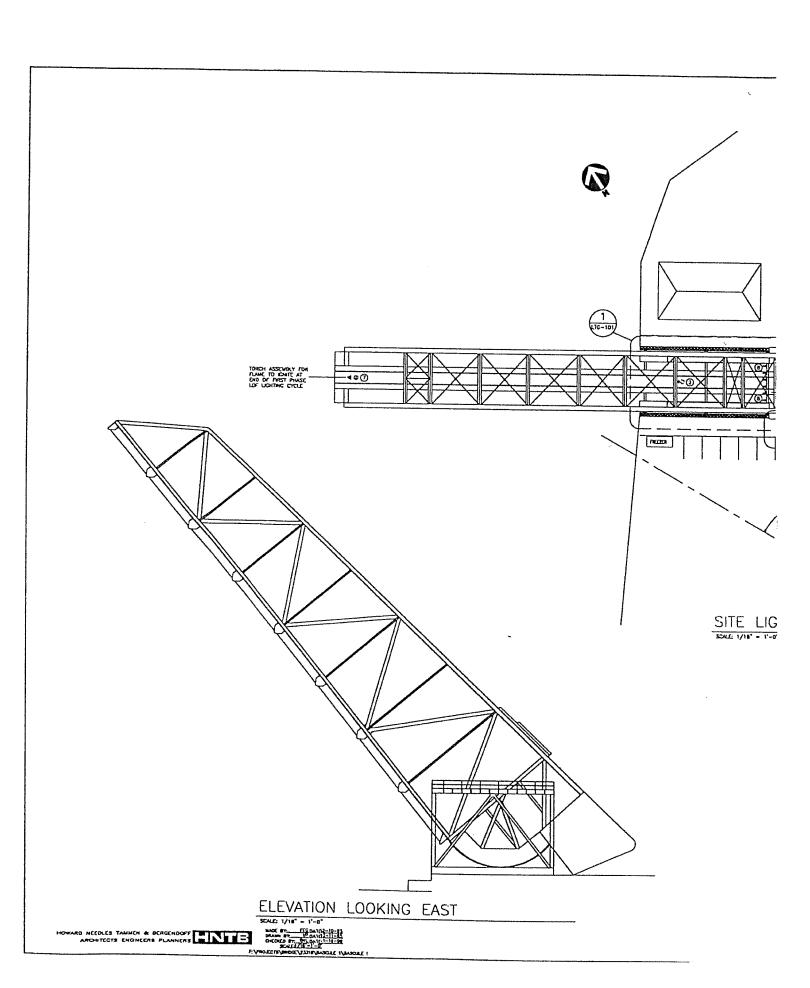
LIGHTING EQUIPMENT PLAN
Scole: 1/8" - 1"-0"

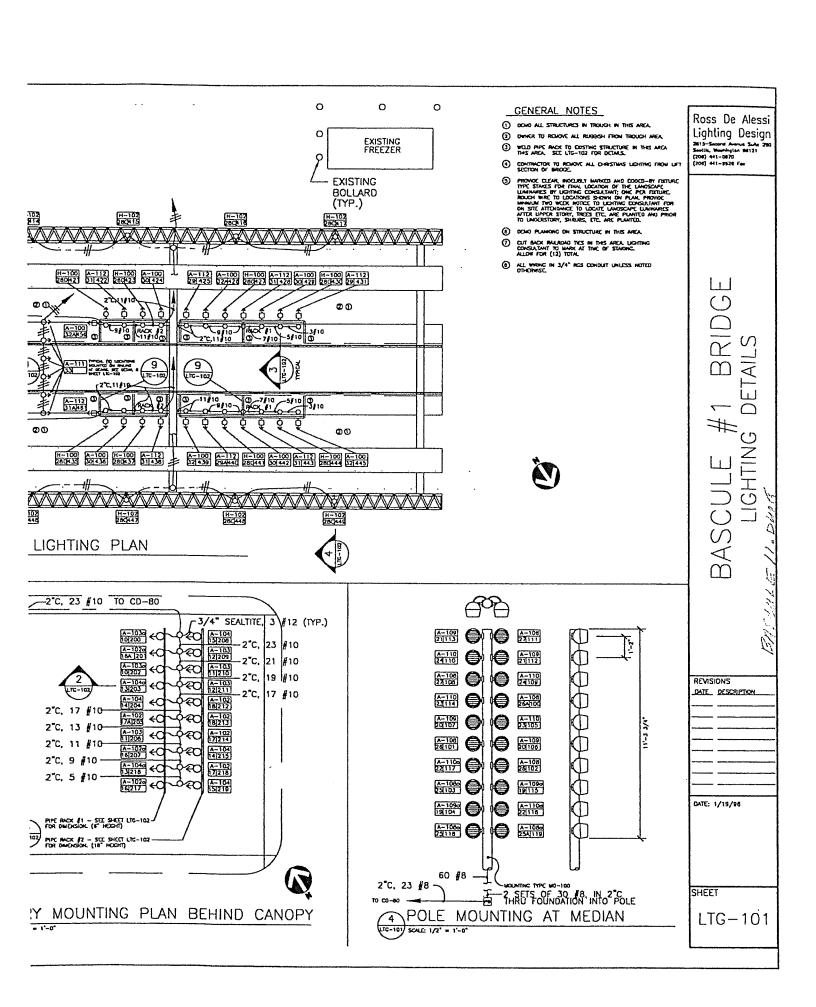
LEGEND
OPEN TO BELOW

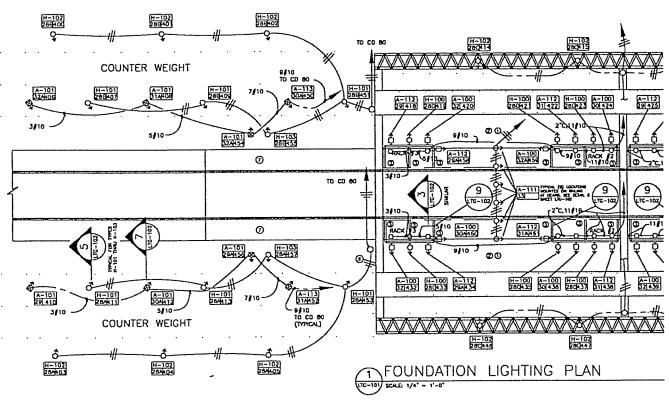
ARCHITECTS ENGINEERS PLANNERS ETCHTES

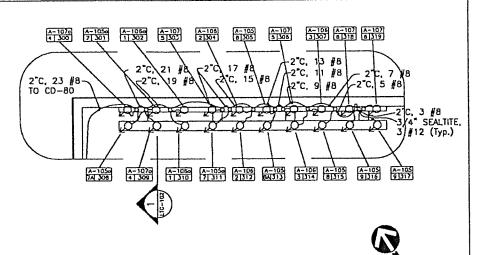
MADE STITLE DATE 1-20-36
DRAWS STITLE DATE 1-20-36
DRAWS STATE DATE 2-2-36
ENVENIENT MEGGY/1118/CDROSALE-



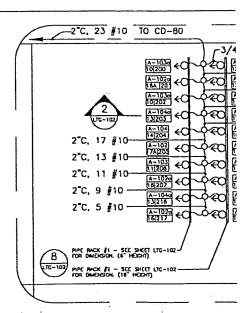








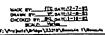
ROOF MOUNTING AT NORTHEAST CORNER

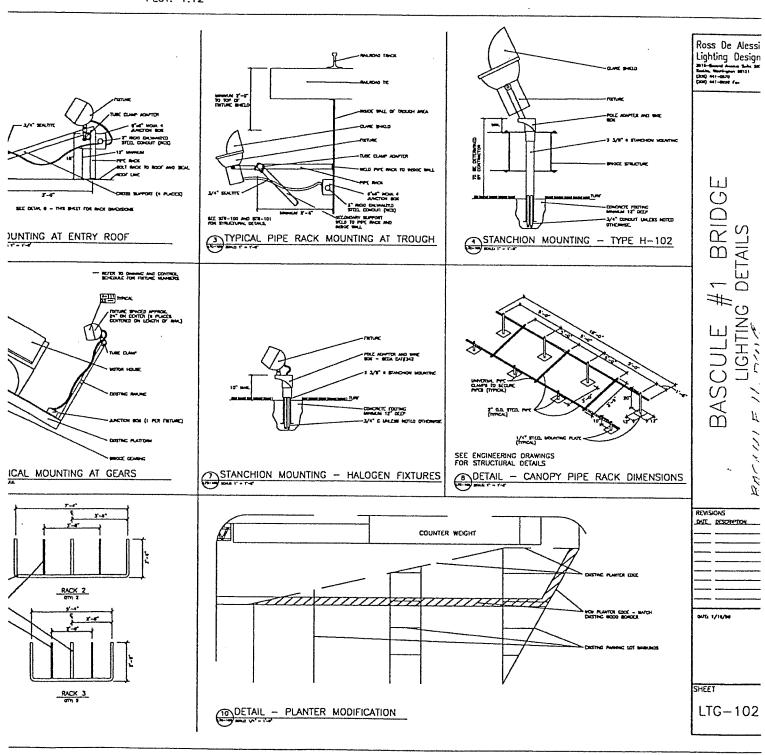


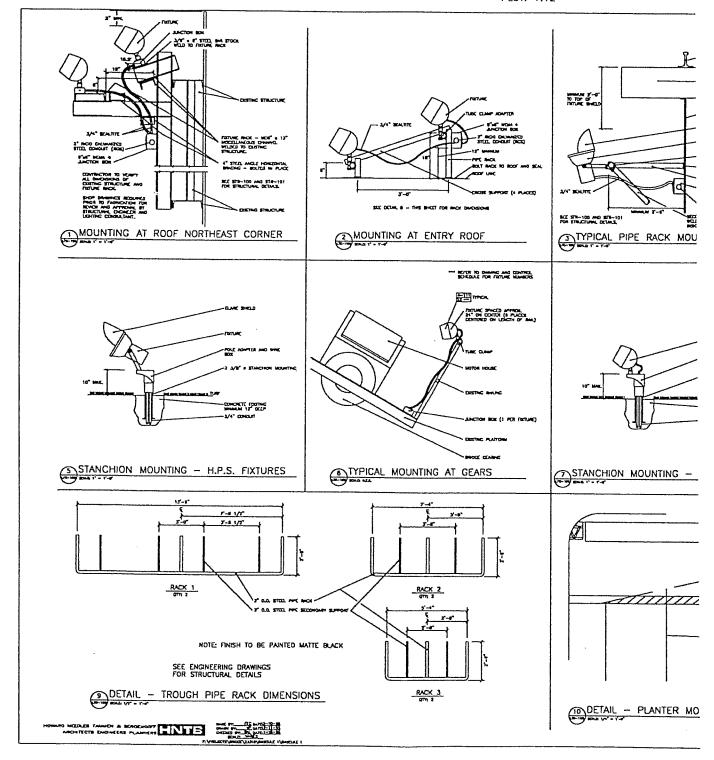
3 ENTRY MOUNTING PLAN BEH

(LTG-101) SCALE: 1/4" = 1"-0"



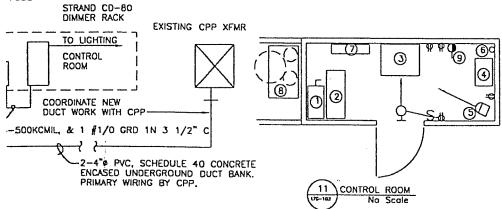






			CD-80 DIMMER RA	ACK LOAD	ING :	SCHEDULE		
NUMBER	DESCRIPTION	сн #	FIXTURE QUANTITY AND TYPE	LOAD VA	ø	CONDUIT & WIRE	REMARKS	NOWER
1 2	2.4 KW DIM W/20A C/8 D1	1 1	2-A106a	2000		2", 2/8 & 1/12 GRD	RDOF	1
5	2.4 KW DIM W/20A C/8 D2 2.4 KW DIM W/20A C/8 D3	3	2-A106	2000		2', 2/8 & 1/12 GRO	ROOF	2
7	2.4 KW DIM W/20A C/8 D4	4	2-A106 2-A107a	2000 2000	8	2", 2/8 & 1/12 GRO 2", 2/8 & 1/12 GRD	ROOF ROOF	3
5	2.4 KW DIM W/20A C/8 D5	5	2-A107	2000	c	2. 2/8 & 1/12 GRD	ROOF	5
6	2.4 KW DIM W/20A C/8 D6	6	2-A107	2000	č	2", 2/8 & 1/12 GRO	ROOF	6
7	2.4 KW DIM W/20A C/8 D7	7	2-A105a	2000	A	2", 2/8 & 1/12 GRD	ROOF	15
8	2.4 KW DIM W/20A C/8 D8	8	2-A105	2000	A	2'. 2/8 & 1/12 GRD	ROOF	8
9	2.4 KW DIM W/20A C/8 D9	9	2-A105	2000	8	2", 2 8 & 1 12 GRO	ROOF	9
10	2.4 KW DIM W/ZOA C/8 D10	1	2-A103a	2000	- 8	2°, 3 / 10	ENTRY	10
11	2.4 KW DIM W/20A C/B D11	2	2-A103	2000	С	2, 3 10	ENTRY	11
12	2.4 KW DIM W/20A C/8 D12	3	2-A103	2000	С	2*, 3 /10	ENTRY	12
13	2.4 KW DIM W/20A C/8 D13 2.4 KW DIM W/20A C/8 D14	5	2-A1046	2000	^	2', 3 /10	ENTRY	13
15	2.4 KW DIM W/20A C/B D15	6	2-A104 2-A104	2000	8	2°, 3 /10 2°, 3 /10	ENTRY ENTRY	14
16	2.4 KW DIM W/20A C/8 D16	7	2-A102a	2000	В	2, 3 10	ENIRY	15
17	2.4 KW DIM W/20A C/8 D17	8	2-A102	2000	č	2, 3/10	ENTRY	117
18	2.4 KW DIM W/20A C/8 D18	9	2-A102	2000	c	2. 3 110	ENTRY	18
19	2.4 KW DIM W/20A C/B D19	1	2-A109o	2000	A	2", 2/8 & 1/12 GRD	POLE	19
20	2.4 KW DIM W/20A C/8 D20	2	2-A109	2000	٨	2". 2/8 & 1/12 CRD	POLE	20
21	2.4 KW DIM W/20A C/B 021	3	2-A109	2000	Ð	2", 2/8 & 1/12 GRD	POLE	21
22	2.4 KW DIM W/20A C/B DZZ	4	2-A110a	2000	8	2". 2/8 & 1/12 GRD	POLE	22
23	2.4 KW DIM W/20A C/B D23	5	2-A110	2000	С	2", 2#8 & 1#12 GRD	POLE	23
24	2.4 KW DIM W/20A C/8 D24	6	2-A110	2000	С	2", 2/8 & 1/12 CRO	POLE	24
26	2.4 KW DIM W/20A C/8 D25 2.4 KW DIM W/20A C/8 D26	7 B	2-A1080	2000	^	2", 2/8 & 1/12 GRO	POLE	25
57	2.4 KW DIM W/20A C/B D27	9	2-A108 2-A108	2000 2000	B	2", 2/8 & 1/12 GRD	POLE	26
讀	2.4 KW DIM W/20A C/B D29	11	1-A101, 3-A112	2000	8	2", 2/8 & 1/12 GRD 3/4", 3/10	POLE INTERIOR FLAVE	27
29	2.4 KW DIM W/20A C/B D29A	111	1-A101, 3-A112	2000	c	3/4", 3/10	INTERIOR FLAME	29
30	2.4 KW DIM W/20A C/B D30	12	4-A100	2000	c	3/4", 3/10	INTERIOR FLAME	130
31	2.4 KW DIM W/20A C/B D30A	12	1-A100, 1-A101,1-A113	1500 .	A	3/4", 3/10	INTERIOR FLAME	31
12	2.4 KW DIM W/20A C/8 D31	13	4-A112	2000	۸	3/4", 3/10	INTERIOR FLAME	32
13	2.4 KW DIM W/20A C/8 D31A	13	1-A101, 1-A112,1-A113	1500	8	3/4", 3/10	INTERIOR FLANE	33
4	2.4 KW DIM W/20A C/B D32	14	3-A100, 1-A101	2000	В	3/4", 3/10	INTERIOR FLAME	34
15	2.4 KW DIM W/20A C/B D32A	14	3-A100, 1-A101	2000	C	3/4", 3/10	INTERIOR FLAME	35
岃	2.4 KW DIM W/20A C/8 D7A 2.4 KW DIM W/20A C/8 D16A	7 7	1-A105a 1-A102a	1000	C	2", 2/8 & 1/12 CRO	ROOF	36
ia	2.4 KW DIM W/20A C/B D25A	 	1-A108a	1000	A	2", 3 #10 2", 2 8 & 1 #12 CRO	ENTRY POLE	37
19	2.4 KW DIM W/2GA C/B DBA	8	1-A105	1000	B	2", 2/8 & 1/12 GRO	ROOF	39
10	2.4 KW DIM W/20A C/8 D17A	8	1-4102	1000	8	2, 3/10	ENTRY	40
ii	2.4 KW DIM W/20A C/8 D26A	8	1-A108	1000	С	2", 2/8 & 1/12 GRD	POLE	41
12	SW28A W/20A C/B	10	3-H101,3-H102,1-H103	960	8	3/4", 3/10	EXTERIOR/INTERIOR BASE	12
13	SW288 W/20A C/8	10	3-H101,3-H102,1-H103	960	С	3/4", 3/10	EXTERIOR/INTERIOR BASE	43
4	SW28C W/20A C/8	10	8-H102	1536	С	3/4", 3/10	EXTERIOR/INTERIOR BASE	44
5	SW280 W/20A C/8 2.4 KW DIM W/20A C/8 D33	10	10-H100	960	A	3/4", 3/10	EXTERIOR/INTERIOR BASE	45
17	SW34 W/ZOA C/B	16	6-A111	900 1000	A 6	3/4*, 3/12	GEAR FEATURE	45
8	SW35 W/20A C/B	17		1000	8	3/4°, 3/12 3/4°, 3/12	CAS FLAME CONTROLLER MISTING DEVICE CONTROL	47
19	SW36 W/20A C/8	18	120V DUPLEX RECEPT	1800	c	3/4", 3/12	STATIC SOUND	49
io	SW37 W/20A C/8	19	120V DUPLEX RECEPT	1800	č	3/4', 3/12	EVENT SOUND	50
51	20A C/8	NA.	120V DUPLEX RECEPT	500	٨	.3/4", 3/12	AUDIO/DMX RACK POWER	51
12	20A 2P C/8	NA.	UNIT HEATER	2600	BC	3/4", 3/12	CONTROL ROOM HEATER	52
13	SW38 W/20A C/8	19	120V DUPLEX RECEPT	1800	С	3/4", 3/12	EVENT SOUND	53
4	SW39 W/20A C/B	19	120V DUPLEX RECEPT	1800	A	3/4", 3/12	EVENT SOUND	54
5	SW40 W/20A C/B	NA	120V DUPLEX RECEPT	180	8	3/4", 3/12	CONT. RM. RECEPT. & LIGHT	55
i5	20A 3P C/B 2.4 KW DIM W/20A C/B	17		3960	ABC	3/4", 4/12	MISTING DEVICE PUMP	56
1	AT AN UM M/ZUA L/D	اــــــا			С	<u> </u>	SPARE	57

-240V-3Ø-4W 400A FUSED SW NEMA 3R W/400A FUSE



CLE LINE DIAGRAM - 120/208-30-4W No scale

KEYED NOTES

- (1) Fused disconnect switch normal duty, 120/208V, 3 Phase, 4W, 400A, w/400A current limiting fuses,
- 2 Flame F/X Control Panel Mount above F/SW.

 3 CD 80 Dimmer Rack.
- 4 DMX/AUDIO Rack with CD player.
- CD player.

 Chromalox #LUH-02-81
 2.6KW Unit Heater, 208V,
 1 Phase, w/ integral
 Thermostat, Ceiling mtd.
 w/ slope ceiling adapter.

 Audia Power Outlets as
 required for (4) 1.8KW
 circuits.
- circuits.
- Misting System Control panel.
- Mist pump unit (mount on shelf) brine tank and water treatment below. Provide disconnect at pump.
- DMX/SWC Control Outlet

Ross De Alessi

REVISI	ONS
DATE	DESCRIPTION
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DATE:	1/19/96
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DECORATIVE LIGHTING NOTES-BASCULE 1

SPECIFICATIONS
THESE NOTES ARE SUPPLEMENTAL TO HEMS 625 AND 713 OF THE STATE OF OHIO
DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS
AND TO ATTACHED DIMISION 16 SPECIFICATIONS. IN CASE OF ANY CONFLICT THE
MORE STRINGENT REQUIREMENT WILL APPLY.

GENERAL
THIS PROJECT WILL RECEME 208/120 VOLT, THREE PHASE 4 WIRE, SECONDARY
SERVICE, WITH GROUNDED NEUTRAL FROM:

CLEVELAND PUBLIC POWER (C.P.P.) LAKESIDE AVENUE CLEVELAND, DHID 44114

THE CONTRACTOR WILL NOT BE REQUIRED TO FURNISH OR INSTALL THE PRIMARY DISTRIBUTION LINES, TRANSFORMERS OR TRANSFORMER POLES, THE CONTRACTOR SHALL PROVIDE EXCAVATION, TRANSFORMER PAD PER CPP SPECIFICATIONS, PRIMARY DUCT BANK, SECONDARY CONNECTIONS, FEEDERS, CONNECTION TO BRANCH CIRCUITS AND GROUNDS AS HEREINAFTER SPECIFIED AND SHOWN ON THE PLANS AND ASSURE THAT ALL POWER SERVICE REQUIREMENTS OF CPP ARE PROVIDED, CONTRACTOR SHALL PROVIDED PROTECTIVE BOLLAROS AROUND THE CPP TRANSFORMER PER CPP STANDARDS.

LUMINARES SHALL BE AS SPECIFIED ON THE ATTACHED LICHTING FIXTURE SCHEDULE.

EIXTURE MOUNTING BRACKETS
MOUNTING BRACKETS SHALL BE AS DETAILED IN THE PLANS.

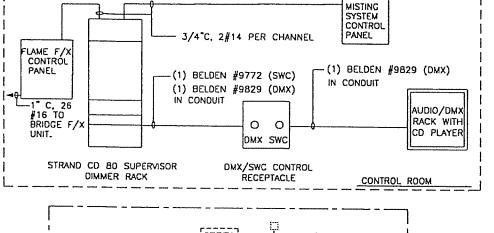
UNDERGROUND DUCT BANK
CONTRACTOR SHALL REPAIR PARKING LOT PAVEMENT TO MATCH EXISTING PAVEMENT AFTER
EXCAVATING & INSTALLING THE DUCT BANK(S). RESTORE ALL AREAS TO MATCH EXISTING
CONTIGUOUS AREA(S). CONTRACTOR SHALL COORDINATE ALL TRENCHING WITH OWNER
TO MINIMIZE ANY INCONVENIENCE TO OWNER'S OPERATIONS.

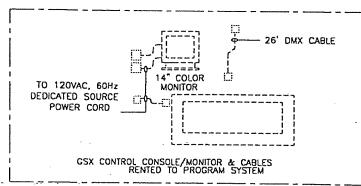
TOTAL CONNECTED LOAD VA

A-32,516

B-31,360 Ø <u>C-32.980</u> 96,856 = 269 A

DESCRIPTION 2.4 KW DIM W/20A C/8 D 2.4 KW DIM W/20A C/B DZ 2.4 KW DIM W/20A C/B DZ 2.4 KW DIM W/20A C/B DZ 2 2.4 KW DIM W/ZOA C/B DE 2.4 KW DIM W/ZOA C/B DC 2.4 KW DIM W/ZOA C/B DC 2.4 KW DIM W/ZOA C/B DZ 2.4 KW DIM W/ZOA C/B DZ 8 2.4 KW DIM W/20A C/8 DS 2.4 KW DIM W/20A C/8 DI 11 2.4 KW DIM W/20A C/8 D1 15 2.4 KW DIM W/20A C/8 D1 2.4 KW DIM W/20A C/8 D1 2.4 KW DIM W/20A C/8 D2 18 2.4 KW DIM W/20A C/B D2 2.4 KW DIM W/20A C/B D2 2.4 KW DIM W/20A C/B D2 2.4 KW DIM W/20A C/8 D2 2.4 KW DIM W/20A C/8 D2 2.4 KW DIM W/20A C/8 D2 24 2.4 KW DIM W/20A C/B D2 2.4 KW DIM W/20A C/B D2 2.4 KW DIM W/20A C/B D2 27 2.4 KW DIM W/20A C/8 D3 2.4 KW DIM W/20A C/8 D3 2.4 KW DIM W/20A C/8 D3 30 2.4 KW DIM W/20A C/8 D3 2.4 KW DIM W/20A C/8 D3 2.4 KW DIM W/20A C/8 D3 33 35 2.4 KW DIM W/20A C/8 D7 2.4 KW DIM W/20A C/8 D1 2.4 KW DIM W/20A C/8 D2 38 2.4 KW DIM W/20A C/8 DB 2.4 KW DIM W/20A C/8 D1 2.4 KW DIM W/20A C/8 D2 39 41 SW28A W/20A C/B SW288 W/20A C/8 44 SW28C W/20A C/8 SW280 W/20A C/8 2.4 KW DIM W/20A C/8 D3 47 SW34 W/20A C/B 48 SW35 W/20A C/B SW36 W/20A C/8 50 SW37 W/20A C/8 51 20A C/B 20A 2P C/8 SW38 W/20A C/8 SW39 W/20A C/B 5W40 W/20A C/B 20A 3P C/B 55 57 2.4 KW DIM W/20A C/8 240V-3ø-4W





CONTROL WIRING DIAGRAM No scale

METERING BY CPP NEW XFMR BY-CPP-120/208-3¢ 4W SECONDARY #1/0 COPPER GROUND BOND TO 3/4"X 8'
COPPER GROUND ROD AT SWITCH. RUN #1/0
GROUND TO BRIDGE AND BOND TO STEEL. 2-4"PVC SCEDULE 40. CONCRETE ENCASED

COORDINATE NEW DUCT WORK WITH CI 4-500KCMIL, & 1 #1/0 GRE

STRAND CD-80 DIMMER RACK

TO LIGHTING

CONTROL

ROOM

2-4"# PVC. ENCASED UN

UNDERGROUND DUCT BANK,W/4-500KCMIL XHHW COPPER CABLES.

400A FUSED SW NEMA 3R W/400A

FUSE

DESCRIPTION CH # FIXTURE TYPE LOAD
2 2.4 KW DIM W/ZOA C/B D3 2 2 2-A105 2000 A 2: 2/8 & 1/12 GRD ROOF 3 3 2-A KW DIM W/ZOA C/B D3 3 2-A105 2000 B 2: 2/8 & 1/12 GRD ROOF 3 4 2.4 KW DIM W/ZOA C/B D4 4 2-A1079 2000 B 2: 2/8 & 1/12 GRD ROOF 4 5 2.4 KW DIM W/ZOA C/B D5 5 2-A107 2000 C 2: 2/8 & 1/12 GRD ROOF 5 5 2.4 KW DIM W/ZOA C/B D5 6 6 2-A107 2000 C 2: 2/8 & 1/12 GRD ROOF 5 5 2.4 KW DIM W/ZOA C/B D6 6 6 2-A107 2000 C 2: 2/8 & 1/12 GRD ROOF 6 7 2.4 KW DIM W/ZOA C/B D7 7 2-A1059 2000 A 2: 2/8 & 1/12 GRD ROOF 7 8 2.4 KW DIM W/ZOA C/B D8 8 2-A105 2000 A 2: 2/8 & 1/12 GRD ROOF 7 8 2.4 KW DIM W/ZOA C/B D9 9 2-A105 2000 A 2: 2/8 & 1/12 GRD ROOF 7 8 2.4 KW DIM W/ZOA C/B D9 9 2-A105 2000 B 2: 2/8 & 1/12 GRD ROOF 7 9 2.4 KW DIM W/ZOA C/B D1 1 2-A1059 2000 B 2: 2/8 & 1/12 GRD ROOF 9 10 2.4 KW DIM W/ZOA C/B D1 1 2-A1059 2000 B 2: 2/8 & 1/12 GRD ROOF 9 11 2.4 KW DIM W/ZOA C/B D1 1 2-A1059 2000 C 2: 2/8 & 1/12 GRD ROOF 11 12 2.4 KW DIM W/ZOA C/B D1 2 2-A103 2000 C 2: 2/8 & 1/12 GRD ROOF 11 13 2.4 KW DIM W/ZOA C/B D1 3 4 2-A1049 2000 C 2: 2/8 & 1/12 GRD ENTRY 11 14 2.4 KW DIM W/ZOA C/B D1 3 5 2-A104 2000 C 2: 2/8 & 1/12 GRD ENTRY 11 15 2.4 KW DIM W/ZOA C/B D1 5 5 2-A104 2000 A 2: 2/8 & 1/12 GRD ENTRY 11 16 2.4 KW DIM W/ZOA C/B D1 5 6 2-A104 2000 A 2: 2/8 & 1/12 GRD ENTRY 11 17 2.4 KW DIM W/ZOA C/B D1 5 6 2-A104 2000 A 2: 2/8 & 1/12 GRD ENTRY 11 18 2.4 KW DIM W/ZOA C/B D1 5 6 2-A104 2000 A 2: 2/8 & 1/12 GRD ENTRY 11 19 2.4 KW DIM W/ZOA C/B D1 5 6 2-A104 2000 A 2: 2/8 & 1/12 GRD ENTRY 11 19 2.4 KW DIM W/ZOA C/B D1 5 6 2-A104 2000 A 2: 2/8 & 1/12 GRD ENTRY 11 19 2.4 KW DIM W/ZOA C/B D1 5 6 2-A104 2000 C 2: 2/8 & 1/12 GRD ENTRY 11 19 2.4 KW DIM W/ZOA C/B D1 5 6 2-A104 2000 C 2: 2/8 & 1/12 GRD ENTRY 11 19 2.4 KW DIM W/ZOA C/B D1 5 6 2-A104 2000 C 2: 2/8 & 1/12 GRD ENTRY 11 19 2.4 KW DIM W/ZOA C/B D1 5 6 2-A104 2000 C 2: 2/8 & 1/12 GRD ENTRY 11 19 2.4 KW DIM W/ZOA C/B D1 5 6 2-A104 2000 C 2: 2/8 & 1/12 GRD ENTRY 11 20 2.4 KW DIM W/ZOA C/B D1 5 6 2-A104 2000 C 2: 2/8 & 1/12 GRD POLE 2000 ENTRY 11 20 2.4 KW DIM W/ZOA C/B D1 5 7 2-A1020 2000 C 2: 2/8 & 1/12 GRD POLE 2000
3 2.4 KW DIM W/ZOA C/8 D3 3 2-A105 2000 6 27. 2/8 & 1/12 GRD ROOF 4 4 2.4 KW DIM W/ZOA C/8 D3 5 2-A107 2000 6 27. 2/8 & 1/12 GRD ROOF 4 5 2.4 KW DIM W/ZOA C/8 D3 5 2-A107 2000 C 27. 2/8 & 1/12 GRD ROOF 5 6 2.4 KW DIM W/ZOA C/8 D3 6 6 2-A107 2000 C 27. 2/8 & 1/12 GRD ROOF 6 7 2.4 KW DIM W/ZOA C/8 D3 7 7 2-A105a 2000 C 27. 2/8 & 1/12 GRD ROOF 6 8 2.4 KW DIM W/ZOA C/8 D3 8 2-A105 2000 A 27. 2/8 & 1/12 GRD ROOF 7 9 2.4 KW DIM W/ZOA C/8 D3 8 2-A105 2000 A 27. 2/8 & 1/12 GRD ROOF 8 9 2.4 KW DIM W/ZOA C/8 D3 9 2-A105 2000 A 27. 2/8 & 1/12 GRD ROOF 8 10 2.4 KW DIM W/ZOA C/8 D3 9 2-A105 2000 B 27. 2/8 & 1/12 GRD ROOF 9 11 2.4 KW DIM W/ZOA C/8 D3 9 2-A105 2000 B 27. 2/8 & 1/12 GRD ROOF 9 11 2.4 KW DIM W/ZOA C/8 D3 1 2 -A103 2000 C 27. 2/8 & 1/12 GRD ROOF 10 12 2.4 KW DIM W/ZOA C/8 D3 3 2-A103 2000 C 27. 2/8 & 1/12 GRD ROOF 11 12 2.4 KW DIM W/ZOA C/8 D3 4 2-A104 2000 C 27. 2/8 & 1/12 GRD ENTRY 11 13 2.4 KW DIM W/ZOA C/8 D3 4 2-A104 2000 C 27. 2/8 & 1/12 GRD ENTRY 11 14 2.4 KW DIM W/ZOA C/8 D3 5 2-A104 2000 A 27. 2/8 & 1/12 GRD ENTRY 11 15 2.4 KW DIM W/ZOA C/8 D3 6 2-A104 2000 B 27. 2/8 & 1/12 GRD ENTRY 11 16 2.4 KW DIM W/ZOA C/8 D3 6 2-A104 2000 B 27. 2/8 & 1/12 GRD ENTRY 11 17 2.4 KW DIM W/ZOA C/8 D3 6 2-A104 2000 B 27. 2/8 & 1/12 GRD ENTRY 11 18 2.4 KW DIM W/ZOA C/8 D3 6 2-A104 2000 B 27. 2/8 & 1/12 GRD ENTRY 11 19 2.4 KW DIM W/ZOA C/8 D3 6 2-A104 2000 B 27. 2/8 & 1/12 GRD ENTRY 11 19 2.4 KW DIM W/ZOA C/8 D3 6 2-A104 2000 B 27. 2/8 & 1/12 GRD ENTRY 11 19 2.4 KW DIM W/ZOA C/8 D3 6 2-A104 2000 B 27. 2/8 & 1/12 GRD ENTRY 11 19 2.4 KW DIM W/ZOA C/8 D3 6 2-A104 2000 B 27. 2/8 & 1/12 GRD ENTRY 11 19 2.4 KW DIM W/ZOA C/8 D3 7 2-A1020 2000 B 27. 2/8 & 1/12 GRD ENTRY 11 19 2.4 KW DIM W/ZOA C/8 D3 7 2-A1020 2000 C 27. 2/8 & 1/12 GRD ENTRY 11 20 2.4 KW DIM W/ZOA C/8 D3 9 2-A102 2000 C 27. 2/8 & 1/12 GRD ENTRY 11 21 2.4 KW DIM W/ZOA C/8 D3 9 2-A102 2000 C 27. 2/8 & 1/12 GRD ENTRY 11 22 2.4 KW DIM W/ZOA C/8 D3 1 3 2-A109 2000 C 27. 2/8 & 1/12 GRD ENTRY 11 22 2.4 KW DIM W/ZOA C/8 D3 5 2-A100 2000 B 27. 2/8 & 1/12 GRD ENTRY 11 22 2.4
4 2.4 KW DIM W/ZOA C/B D1 4 2-A1070 2000 B 2.7 2/B & 1/12 GRD ROOF 4 5 2.4 KW DIM W/ZOA C/B D5 5 2-A107 2000 C 2.7 2/B & 1/12 GRD ROOF 5 6 2.4 KW DIM W/ZOA C/B D5 6 2-A107 2000 C 2.7 2/B & 1/12 GRD ROOF 6 7 2.4 KW DIM W/ZOA C/B D7 7 2-A1050 2000 A 2.7 2/B & 1/12 GRD ROOF 7 8 2.4 KW DIM W/ZOA C/B D9 7 7 2-A1050 2000 A 2.7 2/B & 1/12 GRD ROOF 7 9 2.4 KW DIM W/ZOA C/B D9 9 2-A105 2000 A 2.7 2/B & 1/12 GRD ROOF 9 10 2.4 KW DIM W/ZOA C/B D9 9 2-A105 2000 B 2.7 2/B & 1/12 GRD ROOF 9 11 2.4 KW DIM W/ZOA C/B D1 1 2-A1030 2000 B 2.7 2/B & 1/12 GRD ROOF 9 12 2.4 KW DIM W/ZOA C/B D1 1 2 2-A103 2000 B 2.7 2/B & 1/12 GRD ROOF 9 11 2.4 KW DIM W/ZOA C/B D1 2 2-A103 2000 C 2.7 2/B & 1/12 GRD ENTRY 11 12 2.4 KW DIM W/ZOA C/B D1 3 4 2-A1040 2000 C 2.7 2/B & 1/12 GRD ENTRY 12 13 2.4 KW DIM W/ZOA C/B D1 3 4 2-A1040 2000 A 2.7 2/B & 1/12 GRD ENTRY 13 14 2.4 KW DIM W/ZOA C/B D1 5 2-A104 2000 A 2.7 2/B & 1/12 GRD ENTRY 14 15 2.4 KW DIM W/ZOA C/B D1 5 6 2-A104 2000 B 2.7 2/B & 1/12 GRD ENTRY 14 16 2.4 KW DIM W/ZOA C/B D1 5 6 2-A104 2000 B 2.7 2/B & 1/12 GRD ENTRY 14 17 2.4 KW DIM W/ZOA C/B D1 5 6 2-A104 2000 B 2.7 2/B & 1/12 GRD ENTRY 14 18 2.4 KW DIM W/ZOA C/B D1 5 6 2-A102 2000 C 2.7 2/B & 1/12 GRD ENTRY 15 16 2.4 KW DIM W/ZOA C/B D1 5 6 2-A102 2000 C 2.7 2/B & 1/12 GRD ENTRY 15 17 2.4 KW DIM W/ZOA C/B D1 5 6 2-A102 2000 C 2.7 2/B & 1/12 GRD ENTRY 16 18 2.4 KW DIM W/ZOA C/B D1 5 6 2-A102 2000 C 2.7 2/B & 1/12 GRD ENTRY 16 19 2.4 KW DIM W/ZOA C/B D1 5 6 2-A102 2000 C 2.7 2/B & 1/12 GRD ENTRY 17 18 2.4 KW DIM W/ZOA C/B D1 5 6 2-A102 2000 C 2.7 2/B & 1/12 GRD ENTRY 16 19 2.4 KW DIM W/ZOA C/B D1 5 6 2-A102 2000 C 2.7 2/B & 1/12 GRD ENTRY 17 19 2.4 KW DIM W/ZOA C/B D1 5 7 2-A1020 2000 C 2.7 2/B & 1/12 GRD ENTRY 17 19 2.4 KW DIM W/ZOA C/B D1 5 7 2-A1020 2000 C 2.7 2/B & 1/12 GRD POLE 20 20 2.4 KW DIM W/ZOA C/B D2 5 7 2-A109 2000 C 2.7 2/B & 1/12 GRD POLE 20 21 2.4 KW DIM W/ZOA C/B D2 5 5 7 2-A109 2000 C 2.7 2/B & 1/12 GRD POLE 22 22 2.4 KW DIM W/ZOA C/B D2 5 5 7 2-A1080 2000 C 2.7 2/B & 1/12 GRD POLE 22 23 2.4 KW DIM W/ZOA C/B D2 5 5 7 2-
\$\frac{5}{5}\$ \ \frac{2.4}{2.4} \text{ KW DIM W/2DA C/8} \ \text{ 0.5}{5}\$ \ \frac{5}{2-A107}\$ \ \text{ 2000} \ \text{ 0.5} \ \text{ 0.7}{2.8} \ \text{ 1/12} \ \text{ CRD}\$ \ \text{ ROOF}\$ \ \text{ 5.5} \ \text{ 5.2} \ \text{ 4.8 KW DIM W/2DA C/8} \ \text{ 0.6} \ \text{ 6.5} \ \text{ 2.4107}\$ \ \text{ 2000} \ \text{ C.2} \ \text{ 2/8} \ \text{ 4.1/12} \ \text{ CRD}\$ \ \text{ ROOF}\$ \ \text{ 5.5} \ \text{ 5.2.4} \ \text{ KW DIM W/2DA C/8} \ \text{ 0.7} \ \text{ 7.7} \ \text{ 7.7} \ \text{ 2.18} \ \text{ 4.1/12} \ \text{ CRD}\$ \ \text{ ROOF}\$ \ \text{ 7.7} \\ \text{ 8.2.4} \ \text{ KW DIM W/2DA C/8} \ \text{ 0.8} \ \text{ 8.0} \\ \text{ 9.0} \\ \text{ 8.0} \\ \text{ 8.0} \\
5 2.4 KW DIM W/20A C/B 06 6 2-A107 2000 C 2: 2/8 & 1/12 GRD ROOF 6 7 2.4 KW DIM W/20A C/B 07 7 2-A1050 2000 A 2: 2/8 & 1/12 GRD ROOF 7 8 2.4 KW DIM W/20A C/B 09 B 6 2-A105 2000 A 2: 2/8 & 1/12 GRD ROOF 8 9 2.4 KW DIM W/20A C/B 09 9 9 2-A105 2000 B 2: 2/8 & 1/12 GRD ROOF 9 10 2.4 KW DIM W/20A C/B 010 1 2-A1050 2000 B 2: 2/8 & 1/12 GRD ROOF 9 11 2.4 KW DIM W/20A C/B 011 2 2-A105 2000 C 2: 2/8 & 1/12 GRD ROOF 10 11 2.4 KW DIM W/20A C/B 011 2 2-A103 2000 C 2: 2/8 & 1/12 GRD ROOF 10 11 2.4 KW DIM W/20A C/B 011 2 2-A103 2000 C 2: 2/8 & 1/12 GRD ROOF 11 12 2.4 KW DIM W/20A C/B 013 4 2-A104 2000 A 2: 2/8 & 1/12 GRD ROOF 11 13 2.4 KW DIM W/20A C/B 013 4 2-A104 2000 A 2: 2/8 & 1/12 GRD ROOF 11 14 2.4 KW DIM W/20A C/B 013 5 2-A104 2000 A 2: 2/8 & 1/12 GRD ROOF 11 15 2.4 KW DIM W/20A C/B 013 5 2-A104 2000 A 2: 2/8 & 1/12 GRD ROOF 11 16 2.4 KW DIM W/20A C/B 015 6 2-A104 2000 A 2: 2/8 & 1/12 GRD ROOF 11 17 2.4 KW DIM W/20A C/B 016 7 2-A1020 2000 B 2: 2/8 & 1/12 GRD ROOF 11 18 2.4 KW DIM W/20A C/B 016 7 2-A1020 2000 B 2: 2/8 & 1/12 GRD ROOF 11 19 2.4 KW DIM W/20A C/B 016 7 2-A1020 2000 C 2: 2/8 & 1/12 GRD ROOF 11 19 2.4 KW DIM W/20A C/B 016 7 2-A1020 2000 B 2: 2/8 & 1/12 GRD ROOF 11 19 2.4 KW DIM W/20A C/B 018 9 2-A102 2000 C 2: 2/8 & 1/12 GRD ROOF 11 19 2.4 KW DIM W/20A C/B 018 9 2-A102 2000 C 2: 2/8 & 1/12 GRD ROOF 11 19 2.4 KW DIM W/20A C/B 018 9 2-A102 2000 C 2: 2/8 & 1/12 GRD ROOF 11 19 2.4 KW DIM W/20A C/B 018 9 2-A102 2000 C 2: 2/8 & 1/12 GRD ROOF 11 19 2.4 KW DIM W/20A C/B 021 3 2-A109 2000 A 2: 2/8 & 1/12 GRD ROOF 11 19 2.4 KW DIM W/20A C/B 021 3 2-A109 2000 A 2: 2/8 & 1/12 GRD ROOF 11 19 2.4 KW DIM W/20A C/B 021 3 2-A109 2000 B 2: 2/8 & 1/12 GRD POLE 12 22 2.4 KW DIM W/20A C/B 021 3 2-A109 2000 C 2: 2/8 & 1/12 GRD POLE 12 23 2.4 KW DIM W/20A C/B 021 3 2-A109 2000 B 2: 2/8 & 1/12 GRD POLE 12 23 2.4 KW DIM W/20A C/B 021 3 2-A109 2000 C 2: 2/8 & 1/12 GRD POLE 12 24 2.4 KW DIM W/20A C/B 021 3 2-A109 2000 C 2: 2/8 & 1/12 GRD POLE 12 25 2.4 KW DIM W/20A C/B 021 3 2-A109 2000 C 2: 2/8 & 1/12 GRD POLE 12 26 2.4 KW DIM W/20A
7 2.4 KW DIM W/ZOA C/B D7 7 2-A1050 2000 A 2. 2/B & 1/12 GRD ROOF 7 8 2.4 KW DIM W/ZOA C/B D8 B 2-A105 2000 A 2. 2/B & 1/12 GRD ROOF 8 9 2.4 KW DIM W/ZOA C/B D9 9 2-A105 2000 B 2. 2/B & 1/12 GRD ROOF 9 10 2.4 KW DIM W/ZOA C/B D10 1 2-A1050 2000 B 2. 2/B & 1/12 GRD ROOF 9 11 2.4 KW DIM W/ZOA C/B D11 2 2-A1030 2000 C 2. 2/B & 1/12 GRD ROOF 11 12 4 KW DIM W/ZOA C/B D11 2 2-A103 2000 C 2. 2/B & 1/12 GRD ROOF 11 12 2.4 KW DIM W/ZOA C/B D11 2 2-A103 2000 C 2. 2/B & 1/12 GRD ROOF 11 13 2.4 KW DIM W/ZOA C/B D12 3 2-A103 2000 C 2. 2/B & 1/12 GRD ENTRY 11 14 2.4 KW DIM W/ZOA C/B D13 4 2-A1046 2000 A 2. 2/B & 1/12 GRD ENTRY 11 15 2.4 KW DIM W/ZOA C/B D14 5 2-A104 2000 A 2. 2/B & 1/12 GRD ENTRY 11 16 2.4 KW DIM W/ZOA C/B D15 6 2-A104 2000 A 2. 2/B & 1/12 GRD ENTRY 14 15 2.4 KW DIM W/ZOA C/B D15 7 2-A1020 2000 B 2. 2/B & 1/12 GRD ENTRY 15 16 2.4 KW DIM W/ZOA C/B D15 7 2-A1020 2000 B 2. 2/B & 1/12 GRD ENTRY 15 17 2.4 KW DIM W/ZOA C/B D16 7 2-A1020 2000 C 2. 2/B & 1/12 GRD ENTRY 15 18 2.4 KW DIM W/ZOA C/B D16 7 2-A1020 2000 C 2. 2/B & 1/12 GRD ENTRY 15 18 2.4 KW DIM W/ZOA C/B D16 7 2-A1020 2000 C 2. 2/B & 1/12 GRD ENTRY 15 19 2.4 KW DIM W/ZOA C/B D16 7 2-A1020 2000 C 2. 2/B & 1/12 GRD ENTRY 15 20 2.4 KW DIM W/ZOA C/B D17 B 2-A102 2000 C 2. 2/B & 1/12 GRD ENTRY 17 21 2.4 KW DIM W/ZOA C/B D18 9 2-A102 2000 C 2. 2/B & 1/12 GRD ENTRY 17 22 2.4 KW DIM W/ZOA C/B D18 9 2-A102 2000 C 2. 2/B & 1/12 GRD ENTRY 17 23 2.4 KW DIM W/ZOA C/B D20 2 2 2-A109 2000 C 2. 2/B & 1/12 GRD POLE 19 24 2.4 KW DIM W/ZOA C/B D21 3 2-A109 2000 A 2. 2/B & 1/12 GRD POLE 20 25 2.4 KW DIM W/ZOA C/B D21 3 2-A109 2000 A 2. 2/B & 1/12 GRD POLE 20 26 2.4 KW DIM W/ZOA C/B D21 3 2-A109 2000 A 2. 2/B & 1/12 GRD POLE 20 27 2.4 KW DIM W/ZOA C/B D23 5 2-A110 2000 C 2. 2/B & 1/12 GRD POLE 20 28 2.4 KW DIM W/ZOA C/B D23 5 2-A110 2000 C 2. 2/B & 1/12 GRD POLE 20 29 2.4 KW DIM W/ZOA C/B D23 5 2-A110 2000 C 2. 2/B & 1/12 GRD POLE 20 20 2.4 KW DIM W/ZOA C/B D23 5 2-A108 2000 A 2. 2/B & 1/12 GRD POLE 20 20 2.4 KW DIM W/ZOA C/B D33 5 2-A108 2000 A 2. 2/B & 1/12 GRD POLE 20 21
8 2.4 KW DIM W/20A C/8 DB 8 2-A105 2000 A 2: 2/8 & 1/12 GR0 ROOF 9 9 2.4 KW DIM W/20A C/8 DB 9 9 2-A105 2000 B 2: 2/8 & 1/12 GR0 ROOF 9 10 2.4 KW DIM W/20A C/8 DB 1 2-A103 2000 B 2: 2/8 & 1/12 GR0 ROOF 9 11 2.4 KW DIM W/20A C/8 DB 1 2 2-A103 2000 C 2: 2/8 & 1/12 GR0 ROOF 10 12 2.4 KW DIM W/20A C/8 DB 1 2 2-A103 2000 C 2: 2/8 & 1/12 GR0 ENTRY 11 13 2.4 KW DIM W/20A C/8 DB 1 3 2-A103 2000 C 2: 2/8 & 1/12 GR0 ENTRY 11 14 2.4 KW DIM W/20A C/8 DB 1 4 2-A104 2000 A 2: 2/8 & 1/12 GR0 ENTRY 11 15 2.4 KW DIM W/20A C/8 DB 1 5 2-A104 2000 A 2: 2/8 & 1/12 GR0 ENTRY 11 16 2.4 KW DIM W/20A C/8 DB 1 5 2-A104 2000 A 2: 2/8 & 1/12 GR0 ENTRY 11 17 2.4 KW DIM W/20A C/8 DB 1 5 2-A104 2000 A 2: 2/8 & 1/12 GR0 ENTRY 11 18 2.4 KW DIM W/20A C/8 DB 6 7 2-A1020 2000 B 2: 2/8 & 1/12 GR0 ENTRY 15 19 2.4 KW DIM W/20A C/8 DB 7 2-A1020 2000 C 2: 2/8 & 1/12 GR0 ENTRY 15 19 2.4 KW DIM W/20A C/8 DB 7 2-A1020 2000 C 2: 2/8 & 1/12 GR0 ENTRY 17 18 2.4 KW DIM W/20A C/8 DB 9 2-A102 2000 C 2: 2/8 & 1/12 GR0 ENTRY 17 19 2.4 KW DIM W/20A C/8 DB 9 2-A102 2000 C 2: 2/8 & 1/12 GR0 ENTRY 17 19 2.4 KW DIM W/20A C/8 DB 9 2-A102 2000 C 2: 2/8 & 1/12 GR0 ENTRY 17 20 2.4 KW DIM W/20A C/8 DB 9 1 2-A102 2000 C 2: 2/8 & 1/12 GR0 ENTRY 17 21 2.4 KW DIM W/20A C/8 DB 9 1 2-A102 2000 C 2: 2/8 & 1/12 GR0 POLE 19 22 2.4 KW DIM W/20A C/8 DB 9 1 2-A109 2000 A 2: 2/8 & 1/12 GR0 POLE 19 23 2.4 KW DIM W/20A C/8 DB 5 2-A100 2000 B 2: 2/8 & 1/12 GR0 POLE 22 24 KW DIM W/20A C/8 DB 5 2-A100 2000 B 2: 2/8 & 1/12 GR0 POLE 22 25 2.4 KW DIM W/20A C/8 DB 25 7 2-A108 2000 C 2: 2/8 & 1/12 GR0 POLE 22 26 2.4 KW DIM W/20A C/8 DB 25 7 2-A108 2000 C 2: 2/8 & 1/12 GR0 POLE 22 27 2.4 KW DIM W/20A C/8 DB 25 7 2-A108 2000 C 2: 2/8 & 1/12 GR0 POLE 22 28 2.4 KW DIM W/20A C/8 DB 25 7 2-A108 2000 C 2: 2/8 & 1/12 GR0 POLE 22 29 2.4 KW DIM W/20A C/8 DB 25 7 2-A108 2000 C 2: 2/8 & 1/12 GR0 POLE 22 21 2.4 KW DIM W/20A C/8 DB 25 7 2-A108 2000 C 2: 2/8 & 1/12 GR0 POLE 22 23 2.4 KW DIM W/20A C/8 DB 25 7 2-A108 2000 C 2: 2/8 & 1/12 GR0 POLE 22 24 24 KW DIM W/20A C/8 DB 25 7 2-A108 2000 C 2: 2/8 & 1/12 GR0
9 2.4 KW DIM W/ZOA C/B D9 9 2-A105 2000 B 2: 2f8 & 1f12 GRD ROOF 9 10 2.4 KW DIM W/ZOA C/B D10 1 2-A1030 2000 B 2: 2f8 & 1f12 GRD ROOF 10 11 2.4 KW DIM W/ZOA C/B D11 2 2-A103 2000 C 2: 2f8 & 1f12 GRD ROOF 10 12 2.4 KW DIM W/ZOA C/B D11 2 3 2-A103 2000 C 2: 2f8 & 1f12 GRD ENTRY 11 12 2.4 KW DIM W/ZOA C/B D13 4 2-A1040 2000 C 2: 2f8 & 1f12 GRD ENTRY 12 13 2.4 KW DIM W/ZOA C/B D13 4 2-A1040 2000 A 2: 2f8 & 1f12 GRD ENTRY 13 14 2.4 KW DIM W/ZOA C/B D14 5 2-A104 2000 A 2: 2f8 & 1f12 GRD ENTRY 13 15 2.4 KW DIM W/ZOA C/B D16 7 2-A1020 2000 B 2: 2f8 & 1f12 GRD ENTRY 15 16 2.4 KW DIM W/ZOA C/B D16 7 2-A1020 2000 B 2: 2f8 & 1f12 GRD ENTRY 15 17 2.4 KW DIM W/ZOA C/B D18 9 2-A102 2000 C 2: 2f8 & 1f12 GRD ENTRY 16 18 2.4 KW DIM W/ZOA C/B D18 9 2-A102 2000 C 2: 2f8 & 1f12 GRD ENTRY 17 19 2.4 KW DIM W/ZOA C/B D18 9 2-A102 2000 C 2: 2f8 & 1f12 GRD ENTRY 18 20 2.4 KW DIM W/ZOA C/B D19 1 2-A1099 2000 C 2: 2f8 & 1f12 GRD ENTRY 18 21 2.4 KW DIM W/ZOA C/B D19 1 2-A1099 2000 A 2: 2f8 & 1f12 GRD ENTRY 18 22 2.4 KW DIM W/ZOA C/B D21 3 2-A109 2000 C 2: 2f8 & 1f12 GRD POLE 20 21 2.4 KW DIM W/ZOA C/B D21 3 2-A109 2000 B 2: 2f8 & 1f12 GRD POLE 20 22 2.4 KW DIM W/ZOA C/B D21 3 2-A109 2000 B 2: 2f8 & 1f12 GRD POLE 20 23 2.4 KW DIM W/ZOA C/B D21 3 2-A109 2000 B 2: 2f8 & 1f12 GRD POLE 20 24 2.4 KW DIM W/ZOA C/B D23 5 2-A110 2000 B 2: 2f8 & 1f12 GRD POLE 22 24 2.4 KW DIM W/ZOA C/B D23 5 2-A110 2000 C 2: 2f8 & 1f12 GRD POLE 22 25 2.4 KW DIM W/ZOA C/B D23 5 2-A100 2000 B 2: 2f8 & 1f12 GRD POLE 22 26 2.4 KW DIM W/ZOA C/B D23 6 2-A108 2000 B 2: 2f8 & 1f12 GRD POLE 22 27 2.4 KW DIM W/ZOA C/B D23 6 2-A108 2000 B 2: 2f8 & 1f12 GRD POLE 22 28 2.4 KW DIM W/ZOA C/B D23 6 2-A100 2000 C 2: 2f8 & 1f12 GRD POLE 22 29 2.4 KW DIM W/ZOA C/B D23 6 2-A108 2000 B 2: 2f8 & 1f12 GRD POLE 22 20 2.4 KW DIM W/ZOA C/B D23 6 2-A108 2000 B 2: 2f8 & 1f12 GRD POLE 23 21 2.4 KW DIM W/ZOA C/B D23 1 1 1-A101, 1-A112, 1-A113 1500 B 3/4', 3f12 INTERIOR FLAME 33 31 2.4 KW DIM W/ZOA C/B D33 1 1 1-A101, 1-A112, 1-A113 1500 B 3/4', 3f12 INTERIOR FLAME 33 31 2.4 KW DIM W/ZOA C/B D33
10 2.4 KW DIM W/ZOA C/B D10 1 2-A1035 2000 8 2°. 2fB & 1f12 GRD ROOF TO
11 2.4 KW DIM W/20A C/8 D12 3 2-A103 2000 C 2. 2/8 & 1/12 GRD ENTRY 11
12 2.4 KW DIM W/ZOA C/8 D13 4 2-A1040 2000 A 2°, 2/8 & 1/12 GRD ENTRY 13 14 2.4 KW DIM W/ZOA C/8 D14 5 2-A1040 2000 A 2°, 2/8 & 1/12 GRD ENTRY 13 14 2.4 KW DIM W/ZOA C/8 D14 5 2-A1040 2000 A 2°, 2/8 & 1/12 GRD ENTRY 14 15 2.4 KW DIM W/ZOA C/8 D15 6 2-A104 2000 B 2°, 2/8 & 1/12 GRD ENTRY 15 16 2.4 KW DIM W/ZOA C/8 D16 7 2-A1020 2000 B 2°, 2/8 & 1/12 GRD ENTRY 15 16 2.4 KW DIM W/ZOA C/8 D16 7 2-A1020 2000 C 2°, 2/8 & 1/12 GRD ENTRY 16 2.4 KW DIM W/ZOA C/8 D17 B 2-A1020 2000 C 2°, 2/8 & 1/12 GRD ENTRY 17 18 2.4 KW DIM W/ZOA C/8 D18 9 2-A1020 2000 C 2°, 2/8 & 1/12 GRD ENTRY 18 2.4 KW DIM W/ZOA C/8 D19 1 2-A1090 2000 A 2°, 2/8 & 1/12 GRD POLE 19 2.4 KW DIM W/ZOA C/8 D19 1 2-A1090 2000 A 2°, 2/8 & 1/12 GRD POLE 19 2.4 KW DIM W/ZOA C/8 D20 2 2-A1090 2000 A 2°, 2/8 & 1/12 GRD POLE 20 22 2.4 KW DIM W/ZOA C/8 D21 3 2-A1090 2000 B 2°, 2/8 & 1/12 GRD POLE 22 2.4 KW DIM W/ZOA C/8 D22 4 2-A1100 2000 B 2°, 2/8 & 1/12 GRD POLE 22 2.4 KW DIM W/ZOA C/8 D23 5 2-A110 2000 B 2°, 2/8 & 1/12 GRD POLE 22 2.4 KW DIM W/ZOA C/8 D23 5 2-A110 2000 C 2°, 2/8 & 1/12 GRD POLE 22 2.4 KW DIM W/ZOA C/8 D25 7 2-A1080 2000 A 2°, 2/8 & 1/12 GRD POLE 2.5 2.4 KW DIM W/ZOA C/8 D25 7 2-A1080 2000 A 2°, 2/8 & 1/12 GRD POLE 2.5 2.4 KW DIM W/ZOA C/8 D25 7 2-A1080 2000 A 2°, 2/8 & 1/12 GRD POLE 2.5 2.4 KW DIM W/ZOA C/8 D25 7 2-A1080 2000 A 2°, 2/8 & 1/12 GRD POLE 2.5 2.4 KW DIM W/ZOA C/8 D25 7 2-A1080 2000 A 2°, 2/8 & 1/12 GRD POLE 2.5 2.4 KW DIM W/ZOA C/8 D25 7 2-A1080 2000 A 2°, 2/8 & 1/12 GRD POLE 2.5 2.4 KW DIM W/ZOA C/8 D25 11 1-A101, 3-A-112 2000 B 3/4°, 3/12 INTERIOR FLAME 3.0 2.4 KW DIM W/ZOA C/8 D25 11 1-A101, 3-A-112 2000 B 3/4°, 3/12 INTERIOR FLAME 3.0 2.4 KW DIM W/Z
13 2.4 KW DIM W/ZOA C/8 D14 2-A1040 2000 A 2', 2/8 & 1/12 GRD ENTRY 13
15 2.4 KW DIM W/20A C/8 D15 6 2-A104 2000 B 2'. 2/8 & 1/12 GRO ENTRY 15 16 2.4 KW DIM W/20A C/8 D16 7 2-A1020 2000 B 2'. 2/8 & 1/12 GRO ENTRY 16 17 2.4 KW DIM W/20A C/8 D17 B 2-A102 2000 C 2', 2/8 & 1/12 GRO ENTRY 16 18 2.4 KW DIM W/20A C/8 D18 9 2-A102 2000 C 2', 2/8 & 1/12 GRO ENTRY 17 18 2.4 KW DIM W/20A C/8 D18 9 2-A102 2000 C 2', 2/8 & 1/12 GRO ENTRY 18 19 2.4 KW DIM W/20A C/8 D19 1 2-A1090 2000 A 2', 2/8 & 1/12 GRO POLE 19 20 2.4 KW DIM W/20A C/8 D20 2 2-A109 2000 A 2', 2/8 & 1/12 GRO POLE 19 21 2.4 KW DIM W/20A C/8 D21 3 2-A109 2000 A 2', 2/8 & 1/12 GRO POLE 20 22 2.4 KW DIM W/20A C/8 D21 3 2-A109 2000 B 2', 2/8 & 1/12 GRO POLE 20 23 2.4 KW DIM W/20A C/8 D23 5 2-A1100 2000 B 2', 2/8 & 1/12 GRO POLE 22 23 2.4 KW DIM W/20A C/8 D23 5 2-A110 2000 C 2', 2/8 & 1/12 GRO POLE 23 24 2.4 KW DIM W/20A C/8 D23 5 2-A110 2000 C 2', 2/8 & 1/12 GRO POLE 23 25 2.4 KW DIM W/20A C/8 D25 5 7 2-A1080 2000 A 2', 2/8 & 1/12 GRO POLE 23 26 2.4 KW DIM W/20A C/8 D25 6 2-A110 2000 C 2', 2/8 & 1/12 GRO POLE 23 27 2.4 KW DIM W/20A C/8 D25 7 2-A1080 2000 A 2', 2/8 & 1/12 GRO POLE 25 28 2.4 KW DIM W/20A C/8 D25 B 2-A108 2000 A 2', 2/8 & 1/12 GRO POLE 25 29 2.4 KW DIM W/20A C/8 D25 B 2-A108 2000 A 2', 2/8 & 1/12 GRO POLE 25 20 2.4 KW DIM W/20A C/8 D25 B 2-A108 2000 A 2', 2/8 & 1/12 GRO POLE 25 20 2.4 KW DIM W/20A C/8 D27 9 2-A108 2000 B 2', 2/8 & 1/12 GRO POLE 25 20 2.4 KW DIM W/20A C/8 D27 9 2-A108 2000 C 3/4', 3/12 INTERIOR FLAME 28 20 2.4 KW DIM W/20A C/8 D29 11 1-A101, 3-A-112 2000 C 3/4', 3/12 INTERIOR FLAME 29 21 2.4 KW DIM W/20A C/8 D30 12 4-A100 2000 C 3/4', 3/12 INTERIOR FLAME 30 30 2.4 KW DIM W/20A C/8 D30 12 4-A100 2000 C 3/4', 3/12 INTERIOR FLAME 30 31 2.4 KW DIM W/20A C/8 D30 12 4-A100 2000 C 3/4', 3/12 INTERIOR FLAME 30 32 2.4 KW DIM W/20A C/8 D30 12 4-A100 2000 C 2', 2/8 & 1/12 GRO POLE 31 33 2.4 KW DIM W/20A C/8 D30 12 4-A100 1-A101, 1-A101, 3-A-112 2000 D C 3/4', 3/12 INTERIOR FLAME 30 34 2.4 KW DIM W/20A C/8 D30 11 3 4-A101, 1-A101, 1-D101 2000 C 2', 2/8 & 1/12 GRO INTERIOR FLAME 30 35 2.4 KW DIM W/20A C/8 D30 11 3 4-
16
17 2.4 KW DIM W/20A C/B D17 B 2-A102 2000 C 2', 2/B & 1/12 GRD ENTRY 17 18 2.4 KW DIM W/20A C/B D18 9 2-A102 2000 C 2', 2/B & 1/12 GRD ENTRY 18 19 2.4 KW DIM W/20A C/B D19 1 2-A109 2000 A 2', 2/B & 1/12 GRD POLE 19 20 2.4 KW DIM W/20A C/B D20 2 2-A109 2000 A 2', 2/B & 1/12 GRD POLE 20 21 2.4 KW DIM W/20A C/B D21 3 2-A109 2000 B 2', 2/B & 1/12 GRD POLE 21 22 2.4 KW DIM W/20A C/B D23 5 2-A109 2000 B 2', 2/B & 1/12 GRD POLE 22 23 2.4 KW DIM W/20A C/B D23 5 2-A110 2000 C 2', 2/B & 1/12 GRD POLE 23 24 2.4 KW DIM W/20A C/B D23 5 2-A110 2000 C 2', 2/B & 1/12 GRD POLE 23 25 2.4 KW DIM W/20A C/B D25 7 2-A108 2000 C 2', 2/B & 1/12 GRD POLE 24 25 2.4 KW DIM W/20A C/B D25 7 2-A108 2000 A 2', 2/B & 1/12 GRD POLE 25 26 2.4 KW DIM W/20A C/B D26 B 2-A108 2000 A 2', 2/B & 1/12 GRD POLE 25 27 2.4 KW DIM W/20A C/B D27 9 2-A108 2000 A 2', 2/B & 1/12 GRD POLE 25 28 2.4 KW DIM W/20A C/B D27 9 2-A108 2000 B 2', 2/B & 1/12 GRD POLE 25 29 2.4 KW DIM W/20A C/B D27 9 2-A108 2000 B 2', 2/B & 1/12 GRD POLE 27 29 2.4 KW DIM W/20A C/B D27 11 1-A101, 3-A-112 2000 B 3/4', 3/12 INTERIOR FLAME 28 30 2.4 KW DIM W/20A C/B D30 12 4-A100 2000 C 3/4', 3/12 INTERIOR FLAME 29 30 2.4 KW DIM W/20A C/B D30 12 4-A100 2000 C 3/4', 3/12 INTERIOR FLAME 30 31 2.4 KW DIM W/20A C/B D30 12 1-A100, 1-A101, 1-A-113 1500 A 3/4', 3/12 INTERIOR FLAME 31 32 2.4 KW DIM W/20A C/B D31A 13 1-A101, 1-A101, 3-A-110 2000 C 3/4', 3/12 INTERIOR FLAME 31 33 2.4 KW DIM W/20A C/B D31A 13 1-A101, 1-A101, 1-A101 2000 B 3/4', 3/12 INTERIOR FLAME 33 34 2.4 KW DIM W/20A C/B D31A 13 1-A101, 1-A101 2000 B 3/4', 3/12 INTERIOR FLAME 33 35 2.4 KW DIM W/20A C/B D31A 13 1-A101, 1-A101 2000 C 2', 2/B & 1/12 GRD INTERIOR FLAME 33 36 2.4 KW DIM W/20A C/B D31A 13 1-A101, 1-A101 2000 C 2', 2/B & 1/12 GRD INTERIOR FLAME 33 36 2.4 KW DIM W/20A C/B D31A 13 1-A101, 1-A101 2000 C 2', 2/B & 1/12 GRD INTERIOR FLAME 33 36 2.4 KW DIM W/20A C/B D31A 13 1-A101, 1-A101 2000 C 2', 2/B & 1/12 GRD INTERIOR FLAME 33 36 2.4 KW DIM W/20A C/B D31A 7 1-A-1050, 1-A1010 2000 C 2', 2/B & 1/12 GRD INTERIOR FLAME 33 37 2.
18 2.4 KW DIM W/20A C/B D18 9 2-A102 2000 C 2, 2/8 & 1/12 GRD ENTRY 18 19 2.4 KW DIM W/20A C/B D19 1 2-A1090 2000 A 2, 2/8 & 1/12 GRD POLE 19 20 2.4 KW DIM W/20A C/B D20 2 2-A109 2000 A 2, 2/8 & 1/12 GRD POLE 20 21 2.4 KW DIM W/20A C/B D21 3 2-A109 2000 B 2, 2/8 & 1/12 GRD POLE 21 22 2.4 KW DIM W/20A C/B D21 3 2-A109 2000 B 2, 2/8 & 1/12 GRD POLE 22 23 2.4 KW DIM W/20A C/B D22 4 2-A1100 2000 B 2, 2/8 & 1/12 GRD POLE 22 23 2.4 KW DIM W/20A C/B D23 5 2-A110 2000 C 2, 2/8 & 1/12 GRD POLE 23 24 2.4 KW DIM W/20A C/B D25 7 2-A1080 2000 A 2, 2/8 & 1/12 GRD POLE 24 25 2.4 KW DIM W/20A C/B D25 7 2-A1080 2000 A 2, 2/8 & 1/12 GRD POLE 25 26 2.4 KW DIM W/20A C/B D25 7 2-A1080 2000 A 2, 2/8 & 1/12 GRD POLE 25 27 2.4 KW DIM W/20A C/B D25 7 2-A1080 2000 A 2, 2/8 & 1/12 GRD POLE 25 28 2.4 KW DIM W/20A C/B D27 9 2-A108 2000 A 2, 2/8 & 1/12 GRD POLE 26 29 2.4 KW DIM W/20A C/B D27 9 2-A108 2000 B 3/4, 3/12 INTERIOR FLAME 28 29 2.4 KW DIM W/20A C/B D27 9 2-A108 2000 B 3/4, 3/12 INTERIOR FLAME 29 29 2.4 KW DIM W/20A C/B D30 12 4-A100 2000 C 3/4, 3/12 INTERIOR FLAME 29 30 2.4 KW DIM W/20A C/B D30 12 4-A100 2000 C 3/4, 3/12 INTERIOR FLAME 30 31 2.4 KW DIM W/20A C/B D30 12 4-A100 1-A101, 1-A-113 1500 A 3/4, 3/12 INTERIOR FLAME 30 32 2.4 KW DIM W/20A C/B D31 13 4-A112 2000 B 3/4, 3/12 INTERIOR FLAME 30 33 2.4 KW DIM W/20A C/B D31 13 4-A112 2000 B 3/4, 3/12 INTERIOR FLAME 30 34 2.4 KW DIM W/20A C/B D31 13 4-A112 2000 B 3/4, 3/12 INTERIOR FLAME 30 35 2.4 KW DIM W/20A C/B D32 14 3-A-100, 1-A101 2000 C 2, 2/8 & 1/12 GRD INTERIOR FLAME 30 36 2.4 KW DIM W/20A C/B D32 14 3-A-100, 1-A101 2000 C 2, 2/8 & 1/12 GRD I
19 2.4 KW DIM W/20A C/B D19 1 2-A1090 2000 A 2', 2fB & 1f12 GRD POLE 19
20 2.4 KW DIM W/20A C/8 020 2 2-A109 2000 A 2'. 2/8 & 1/12 GRD POLE 20 21 2.4 KW DIM W/20A C/8 021 3 2-A109 2000 B 2'. 2/8 & 1/12 GRD POLE 21 22 2.4 KW DIM W/20A C/8 022 4 2-A1100 2000 B 2'. 2/8 & 1/12 GRD POLE 22 23 2.4 KW DIM W/20A C/8 023 5 2-A110 2000 C 2'. 2/8 & 1/12 GRD POLE 22 24 2.4 KW DIM W/20A C/8 023 5 2-A110 2000 C 2'. 2/8 & 1/12 GRD POLE 22 25 2.4 KW DIM W/20A C/8 025 7 2-A108 2000 A 2'. 2/8 & 1/12 GRD POLE 25 26 2.4 KW DIM W/20A C/8 025 7 2-A108 2000 A 2'. 2/8 & 1/12 GRD POLE 25 27 2.4 KW DIM W/20A C/8 026 B 2-A108 2000 A 2'. 2/8 & 1/12 GRD POLE 25 28 2.4 KW DIM W/20A C/8 029 11 1-A101, 3-A-112 2000 B 2/4 KW DIM W/20A C/8 029 11 1-A101, 3-A-112 2000 B 3/4', 3/12 INTERIOR FLAME 28 29 2.4 KW DIM W/20A C/8 029 11 1-A101, 3-A-112 2000 C 3/4', 3/12 INTERIOR FLAME 29 30 2.4 KW DIM W/20A C/8 030 12 4-A100 2000 C 3/4', 3/12 INTERIOR FLAME 29 31 2.4 KW DIM W/20A C/8 030 12 4-A100 2000 C 3/4', 3/12 INTERIOR FLAME 29 32 2.4 KW DIM W/20A C/8 030 12 4-A100 2000 C 3/4', 3/12 INTERIOR FLAME 30 31 2.4 KW DIM W/20A C/8 031 13 4-A112 2000 A 3/4', 3/12 INTERIOR FLAME 31 32 2.4 KW DIM W/20A C/8 031 13 4-A112 2000 A 3/4', 3/12 INTERIOR FLAME 31 32 2.4 KW DIM W/20A C/8 031 13 4-A112 2000 B 3/4', 3/12 INTERIOR FLAME 32 32 2.4 KW DIM W/20A C/8 031 13 4-A112 2000 B 3/4', 3/12 INTERIOR FLAME 32 33 2.4 KW DIM W/20A C/8 031 13 4-A112 2000 B 3/4', 3/12 INTERIOR FLAME 32 34 2.4 KW DIM W/20A C/8 031 13 4-A112 2000 B 3/4', 3/12 INTERIOR FLAME 32 35 2.4 KW DIM W/20A C/8 031 13 4-A101, 1-A101, 1-A101 2000 B 3/4', 3/12 INTERIOR FLAME 32 36 2.4 KW DIM W/20A C/8 031 14 3-A-100, 1-A101 2000 C 2', 2/8 & 1/12 GRD INTERIOR FLAME 33 36 2.4 KW DIM W/20A C/8 033 7 1-A-1050, 1-A101 2000 C 2', 2/8 & 1/12 GRD INTERIOR FLAME 33 37 2.4 KW DIM W/20A C/8 033 7 1-A-1050, 1-A101 2000 C 2', 2/8 & 1/12 GRD INTERIOR FLAME 33 38 2.4 KW DIM W/20A C/8 033 7 1-A-1050, 1-A101 2000 C 2', 2/8 & 1/12 GRD INTERIOR FLAME 33 39 2.4 KW DIM W/20A C/8 033 7 1-A-1050, 1-A101 2000 C 2', 2/8 & 1/12 GRD INTERIOR FLAME 34 30 2.4 KW DIM W/20A C/8 033 7 1-A-1050, 1-A101 20
21 2.4 KW DIM W/ZOA C/B D21 3 2-A109 2000 B 2, 2/B & 1/12 GRD POLE 22 22 2.4 KW DIM W/ZOA C/B D22 4 2-A1100 2000 B 2, 2/B & 1/12 GRD POLE 22 23 2.4 KW DIM W/ZOA C/B D23 5 2-A110 2000 C 2, 2/B & 1/12 GRD POLE 22 24 2.4 KW DIM W/ZOA C/B D24 6 2-A110 2000 C 2, 2/B & 1/12 GRD POLE 22 25 2.4 KW DIM W/ZOA C/B D25 7 2-A108 2000 A 2, 2/B & 1/12 GRD POLE 25 26 2.4 KW DIM W/ZOA C/B D25 7 2-A108 2000 A 2, 2/B & 1/12 GRD POLE 25 27 2.4 KW DIM W/ZOA C/B D25 9 2-A108 2000 A 2, 2/B & 1/12 GRD POLE 25 28 2.4 KW DIM W/ZOA C/B D27 9 2-A108 2000 B 2, 2/B & 1/12 GRD POLE 25 29 2.4 KW DIM W/ZOA C/B D27 9 2-A108 2000 B 2, 2/B & 1/B GRD POLE 27 29 2.4 KW DIM W/ZOA C/B D29 11 1-A101, 3-A-112 2000 B 3/4, 3/12 INTERIOR FLAME 28 29 2.4 KW DIM W/ZOA C/B D30 12 4-A100 2000 C 3/4, 3/12 INTERIOR FLAME 25 30 2.4 KW DIM W/ZOA C/B D30 12 4-A100 2000 C 3/4, 3/12 INTERIOR FLAME 30 31 2.4 KW DIM W/ZOA C/B D31 13 4-A112 2000 A 3/4, 3/12 INTERIOR FLAME 31 32 2.4 KW DIM W/ZOA C/B D31 13 4-A112 2000 A 3/4, 3/12 INTERIOR FLAME 32 32 2.4 KW DIM W/ZOA C/B D31 13 4-A112 2000 A 3/4, 3/12 INTERIOR FLAME 32 33 2.4 KW DIM W/ZOA C/B D31 13 4-A112 2000 B 3/4, 3/12 INTERIOR FLAME 32 34 2.4 KW DIM W/ZOA C/B D31 13 4-A100, 1-A101,1-A-113 1500 A 3/4, 3/12 INTERIOR FLAME 32 35 2.4 KW DIM W/ZOA C/B D31 13 4-A101 2000 B 3/4, 3/12 INTERIOR FLAME 32 36 2.4 KW DIM W/ZOA C/B D31 14 3-A-A100, 1-A101 2000 C 2, 2/B & 1/12 GRD INTERIOR FLAME 33 36 2.4 KW DIM W/ZOA C/B D32 14 3-A-A00, 1-A101 2000 C 2, 2/B & 1/12 GRD INTERIOR FLAME 33 37 2.4 KW DIM W/ZOA C/B D33 7 1-A-1050, 1-A101 2000 C 2, 2/B & 1/12 GRD INTERIOR FLAME 33 38 2.4 KW DIM W/ZOA C/B D33 7 1-A-1050, 1-A101 2000 C 2, 2/B & 1/12 GRD INTERIOR FLAME 33 39 2.4 KW DIM W/ZOA C/B D33 7 1-A-1050, 1-A101 2000 C 2, 2/B & 1/12 GRD INTERIOR FLAME 33 30 2.4 KW DIM W/ZOA C/B D33 7 1-A-1050, 1-A101 2000 C 2, 2/B & 1/12 GRD INTERIOR FLAME 33 31 2.4 KW DIM W/ZOA C/B D33 7 1-A-1050, 1-A101 2000 C 2, 2/B & 1/12 GRD INTERIOR FLAME 33 31 2.4 KW DIM W/ZOA C/B D33 7 1-A-1050 1-A101 2000 C 2, 2/B & 1/12 GRD INTERIOR FLAME 33 31 2.4 KW DIM
22 2.4 KW DIM W/ZOA C/B D22 4 2-A1100 2000 B 2'. 2/8 & 1/12 GRD POLE 22 23 2.4 KW DIM W/ZOA C/B D23 5 Z-A110 2000 C 2'. 2/8 & 1/12 GRD POLE 23 24 2.4 KW DIM W/ZOA C/B D25 7 2-A1080 2000 A 2'. 2/8 & 1/12 GRD POLE 24 25 2.4 KW DIM W/ZOA C/B D25 7 2-A1080 2000 A 2'. 2/8 & 1/12 GRD POLE 25 26 2.4 KW DIM W/ZOA C/B D25 7 2-A1080 2000 A 2'. 2/8 & 1/12 GRD POLE 25 27 2.4 KW DIM W/ZOA C/B D25 8 Z-A108 2000 A 2'. 2/8 & 1/12 GRD POLE 26 28 2.4 KW DIM W/ZOA C/B D27 9 2-A108 2000 B 2'. 2/8 & 1/12 GRD POLE 26 28 2.4 KW DIM W/ZOA C/B D27 9 2-A108 2000 B 2'. 2/8 & 1/12 GRD POLE 27 29 2.4 KW DIM W/ZOA C/B D27 11 1-A101, 3-A-112 2000 B 3/4'. 3/12 INTERIOR FLAME 28 29 2.4 KW DIM W/ZOA C/B D30 11 1-A101, 3-A-112 2000 C 3/4'. 3/12 INTERIOR FLAME 29 30 2.4 KW DIM W/ZOA C/B D30 12 4-A100 2000 C 3/4'. 3/12 INTERIOR FLAME 30 31 2.4 KW DIM W/ZOA C/B D30 12 4-A100 2000 C 3/4'. 3/12 INTERIOR FLAME 30 32 2.4 KW DIM W/ZOA C/B D30 13 4-A112 2000 A 3/4'. 3/12 INTERIOR FLAME 30 33 2.4 KW DIM W/ZOA C/B D31 13 4-A112 2000 A 3/4'. 3/12 INTERIOR FLAME 30 34 2.4 KW DIM W/ZOA C/B D31 13 4-A112 2000 B 3/4'. 3/12 INTERIOR FLAME 30 35 2.4 KW DIM W/ZOA C/B D31 13 4-A112 2000 B 3/4'. 3/12 INTERIOR FLAME 30 36 2.4 KW DIM W/ZOA C/B D31 13 1-A101, 1-A112, 1-A113 1500 B 3/4'. 3/12 INTERIOR FLAME 32 36 2.4 KW DIM W/ZOA C/B D32 14 3-A-100, 1-A101 2000 B 3/4'. 3/12 INTERIOR FLAME 33 36 2.4 KW DIM W/ZOA C/B D32 14 3-A-100, 1-A101 2000 C 2'. 2/8 & 1/12 GRD INTERIOR FLAME 33 36 2.4 KW DIM W/ZOA C/B D32 14 3-A-100, 1-A101 2000 C 2'. 2/8 & 1/12 GRD INTERIOR FLAME 33 37 2.4 KW DIM W/ZOA C/B D32 14 3-A-000, 1-A101 2000 C 2'. 2/8 & 1/12 GRD INTERIOR FLAME 33 38 2.4 KW DIM W/ZOA C/B D32 14 3-A-000, 1-A101 2000 C 2'. 2/8 & 1/12 GRD INTERIOR FLAME 33 39 2.4 KW DIM W/ZOA C/B D32 14 3-A-000, 1-A101 2000 C 2'. 2/8 & 1/12 GRD INTERIOR FLAME 33 30 2.4 KW DIM W/ZOA C/B D32 14 3-A-000, 1-A101 2000 C 2'. 2/8 & 1/12 GRD INTERIOR FLAME 33 31 2.4 KW DIM W/ZOA C/B D32 14 3-A-000, 1-A101 2000 C 2'. 2/8 & 1/12 GRD INTERIOR FLAME 33 31 2.4 KW DIM W/ZOA C/B D32 14 3-A-000, 1-A101 2000 C
23 2.4 KW DIM W/ZOA C/B D23 5 Z-A110 2000 C 2°, 2/8 & 1/12 GRD POLE 23 24 2.4 KW DIM W/ZOA C/B D25 6 Z-A110 2000 C 2°, 2/8 & 1/12 GRD POLE 24 25 2.4 KW DIM W/ZOA C/B D25 7 Z-A1080 2000 A 2°, 2/8 & 1/12 GRD POLE 25 26 2.4 KW DIM W/ZOA C/B D25 8 Z-A108 2000 A 2°, 2/8 & 1/12 GRD POLE 25 27 2.4 KW DIM W/ZOA C/B D25 8 Z-A108 2000 A 2°, 2/8 & 1/12 GRD POLE 26 28 2.4 KW DIM W/ZOA C/B D27 9 Z-A108 2000 B 2°, 2/8 & 1/12 GRD POLE 27 28 2.4 KW DIM W/ZOA C/B D29 11 1-A101, 3-A-112 2000 B 3/4°, 3/12 INTERIOR FLAME 28 29 2.4 KW DIM W/ZOA C/B D30 11 1-A101, 3-A-112 2000 C 3/4°, 3/12 INTERIOR FLAME 29 30 2.4 KW DIM W/ZOA C/B D30 12 4-A100 2000 C 3/4°, 3/12 INTERIOR FLAME 30 31 2.4 KW DIM W/ZOA C/B D30 12 1-A100, 1-A101,1-A-113 1500 A 3/4°, 3/12 INTERIOR FLAME 31 32 2.4 KW DIM W/ZOA C/B D31 13 4-A112 2000 A 3/4°, 3/12 INTERIOR FLAME 31 33 2.4 KW DIM W/ZOA C/B D31 13 4-A112 2000 A 3/4°, 3/12 INTERIOR FLAME 31 34 2.4 KW DIM W/ZOA C/B D31 13 4-A112 2000 A 3/4°, 3/12 INTERIOR FLAME 33 35 2.4 KW DIM W/ZOA C/B D31 13 4-A112 2000 A 3/4°, 3/12 INTERIOR FLAME 33 36 2.4 KW DIM W/ZOA C/B D31 14 3-A-100, 1-A101 2000 B 3/4°, 3/12 INTERIOR FLAME 33 36 2.4 KW DIM W/ZOA C/B D32 14 3-A-100, 1-A101 2000 B 3/4°, 3/12 INTERIOR FLAME 33 36 2.4 KW DIM W/ZOA C/B D32 14 3-A-100, 1-A101 2000 B 3/4°, 3/12 INTERIOR FLAME 33 36 2.4 KW DIM W/ZOA C/B D33 7 1-A-1050, 1-A101 2000 C 2°, 2/8 & 1/12 GRD INTERIOR FLAME 35 37 2.4 KW DIM W/ZOA C/B D33 7 1-A-1050, 1-A101 2000 C 2°, 2/8 & 1/12 GRD INTERIOR FLAME 35 38 2.4 KW DIM W/ZOA C/B D33 7 1-A-1050, 1-A101 2000 C 2°, 2/8 & 1/12 GRD INTERIOR FLAME 35 39 2.4 KW DIM W/ZOA C/B D34 7 1-A-1050 1-A101 2000 C 2°, 2/8 & 1/12 GRD INTERIOR FLAME 35 30 2.4 KW DIM W/ZOA C/B D33 7 1-A-1050 1-A101 2000 C 2°, 2/8 & 1/12 GRD INTERIOR FLAME 35 30 2.4 KW DIM W/ZOA C/B D34 7 1-A-1050 1-A101 2000 C 2°, 2/8 & 1/12 GRD INTERIOR FLAME 35 31 2.4 KW DIM W/ZOA C/B D35 7 1-A-1050 1-A101 2000 C 2°, 2/8 & 1/12 GRD INTERIOR FLAME 35 31 2.4 KW DIM W/ZOA C/B D34 7 1-A-1050 1-A101 2000 C 2°, 2/8 & 1/12 GRD INTERIOR FLAME 35 31 2.4 KW DIM W/ZOA C
24
26 2.4 KW DIM W/ZOA C/B D26 B Z-A108 Z000 A Z*. Z/B & 1/12 GRD POLE Z6 27 2.4 KW DIM W/ZOA C/B D27 9 Z-A108 Z000 B Z*. Z/B & 1/12 GRD POLE Z6 28 2.4 KW DIM W/ZOA C/B D27 9 Z-A108 Z000 B Z*. Z/B & 1/12 GRD POLE Z7 29 2.4 KW DIM W/ZOA C/B D29A 11 1-A101, 3-A-112 Z000 B 3/4*, 3/12 INTERIOR FLAME Z8 30 2.4 KW DIM W/ZOA C/B D30 12 1-A100, 1-A-113 Z000 C 3/4*, 3/12 INTERIOR FLAME Z9 30 2.4 KW DIM W/ZOA C/B D30 12 1-A100, 1-A-113 ISOO A 3/4*, 3/12 INTERIOR FLAME 30 31 2.4 KW DIM W/ZOA C/B D31 13 4-A112 Z000 A 3/4*, 3/12 INTERIOR FLAME 31 32 2.4 KW DIM W/ZOA C/B D31 13 4-A112 Z000 A 3/4*, 3/12 INTERIOR FLAME 31 33 2.4 KW DIM W/ZOA C/B D31 13 4-A112 Z000 A 3/4*, 3/12 INTERIOR FLAME 32 34 2.4 KW DIM W/ZOA C/B D31 13 1-A101, 1-A112,1-A113 ISOO B 3/4*, 3/12 INTERIOR FLAME 33 34 2.4 KW DIM W/ZOA C/B D31 14 3-A-100, 1-A101 Z000 B 3/4*, 3/12 INTERIOR FLAME 33 35 2.4 KW DIM W/ZOA C/B D32 14 3-A-100, 1-A101 Z000 B 3/4*, 3/12 INTERIOR FLAME 34 36 2.4 KW DIM W/ZOA C/B D32 14 3-A-100, 1-A101 Z000 C Z*. Z/B & 1/12 GRD INTERIOR FLAME 35 37 2.4 KW DIM W/ZOA C/B D33 7 1-A-1050, 1-A101 Z000 C Z*. Z/B & 1/12 GRD INTERIOR FLAME 35 38 2.4 KW DIM W/ZOA C/B D33 7 1-A-1050 1-A1020 Z000 C Z*. Z/B & 1/12 GRD INTERIOR FLAME 35 39 2.4 KW DIM W/ZOA C/B D34 7 1-A-1050 1-A1020 Z000 C Z*. Z/B & 1/12 GRD ROOF/ENTRY 36 39 2.4 KW DIM W/ZOA C/B D34 7 1-A-1050 1-A1020 Z000 C Z*. Z/B & 1/12 GRD ROOF/ENTRY 36 39 2.4 KW DIM W/ZOA C/B D34 7 1-A-1050 1-A1020 Z000 C Z*. Z/B & 1/12 GRD ROOF/ENTRY 36
27 2.4 KW DIM W/ZOA C/B D27 9 2-A108 2000 B 2*. 2/8 & 1/12 GRD POLE 27 28 2.4 KW DIM W/ZOA C/B D29 11 1-A101, 3-A-112 2000 B 3/4*, 3/12 INTERIOR FLAME 28 29 2.4 KW DIM W/ZOA C/B D30 12 4-A100 2000 C 3/4*, 3/12 INTERIOR FLAME 28 30 2.4 KW DIM W/ZOA C/B D30 12 4-A100 2000 C 3/4*, 3/12 INTERIOR FLAME 29 31 2.4 KW DIM W/ZOA C/B D30 12 1-A100, 1-A101, 1-A-113 1500 A 3/4*, 3/12 INTERIOR FLAME 30 32 2.4 KW DIM W/ZOA C/B D31 13 4-A112 2000 A 3/4*, 3/12 INTERIOR FLAME 31 32 2.4 KW DIM W/ZOA C/B D31 13 4-A112 2000 A 3/4*, 3/12 INTERIOR FLAME 32 33 2.4 KW DIM W/ZOA C/B D31 13 1-A101, 1-A112, 1-A113 1500 B 3/4*, 3/12 INTERIOR FLAME 32 34 2.4 KW DIM W/ZOA C/B D31 13 1-A101, 1-A112, 1-A113 1500 B 3/4*, 3/12 INTERIOR FLAME 32 35 2.4 KW DIM W/ZOA C/B D31 14 3-A-100, 1-A101 2000 B 3/4*, 3/12 INTERIOR FLAME 33 36 2.4 KW DIM W/ZOA C/B 032 14 3-A-100, 1-A101 2000 C 2*. 2/8 & 1/12 GRD INTERIOR FLAME 35 36 2.4 KW DIM W/ZOA C/B 033 7 1-A-1050, 1-A102 2000 C 2*. 2/8 & 1/12 GRD INTERIOR FLAME 35 37 2.4 KW DIM W/ZOA C/B 033 7 1-A-1050, 1-A1020 2000 C 2*. 2/8 & 1/12 GRD INTERIOR FLAME 35 37 2.4 KW DIM W/ZOA C/B 033 7 1-A-1050, 1-A1020 2000 C 2*. 2/8 & 1/12 GRD INTERIOR FLAME 35 37 2.4 KW DIM W/ZOA C/B 033 7 1-A-1050, 1-A1020 2000 C 2*. 2/8 & 1/12 GRD INTERIOR FLAME 35 37 2.4 KW DIM W/ZOA C/B 033 7 1-A-1050, 1-A1020 2000 C 2*. 2/8 & 1/12 GRD POLE 37
28 2.4 KW DIM W/ZOA C/8 029 11 1-A101, 3-A-112 2000 8 3/4', 3/12 INTERIOR FLAME 28 29 2.4 KW DIM W/ZOA C/8 029A 11 1-A101, 3-A-112 2000 C 3/4', 3/12 INTERIOR FLAME 29 30 2.4 KW DIM W/ZOA C/8 030 12 4-A100 2000 C 3/4', 3/12 INTERIOR FLAME 30 31 2.4 KW DIM W/ZOA C/8 030A 12 1-A100, 1-A101,1-A-113 1500 A 3/4', 3/12 INTERIOR FLAME 31 32 2.4 KW DIM W/ZOA C/8 031 13 4-A112 2000 A 3/4', 3/12 INTERIOR FLAME 32 33 2.4 KW DIM W/ZOA C/8 031A 13 1-A101, 1-A112,1-A113 1500 B 3/4', 3/12 INTERIOR FLAME 32 34 2.4 KW DIM W/ZOA C/8 031A 13 1-A101, 1-A112,1-A113 1500 B 3/4', 3/12 INTERIOR FLAME 32 35 2.4 KW DIM W/ZOA C/8 0312 14 3-A-100, 1-A101 2000 B 3/4', 3/12 INTERIOR FLAME 33 36 2.4 KW DIM W/ZOA C/8 032 14 3-A-400, 1-A101 2000 C 2', 2/8 & 1/12 GRD INTERIOR FLAME 35 36 2.4 KW DIM W/ZOA C/8 033 7 1-A-1050, 1-A102 2000 C 2', 2/8 & 1/12 GRD INTERIOR FLAME 35 37 2.4 KW DIM W/ZOA C/8 033 7 1-A-1050, 1-A1020 2000 C 2', 2/8 & 1/12 GRD ROF/ENTRY 36 37 2.4 KW DIM W/ZOA C/8 033 7 1-A-1050 1000 A 2', 2/8 & 1/12 GRD POLE 37
29 2.4 KW DIM W/20A C/8 029A 11 1-A101, 3-A-112 2000 C 3/4", 3/12 INTERIOR FLAME 29 30 2.4 KW DIM W/20A C/8 030 12 4-A100 2000 C 3/4", 3/12 INTERIOR FLAME 30 31 2.4 KW DIM W/20A C/8 030A 12 1-A100, 1-A101,1-A-113 1500 A 3/4", 3/12 INTERIOR FLAME 31 32 2.4 KW DIM W/20A C/8 031 13 4-A112 2000 A 3/4", 3/12 INTERIOR FLAME 31 33 2.4 KW DIM W/20A C/8 031 13 4-A112 2000 A 3/4", 3/12 INTERIOR FLAME 32 33 2.4 KW DIM W/20A C/8 031A 13 1-A101, 1-A112,1-A113 1500 B 3/4", 3/12 INTERIOR FLAME 33 34 2.4 KW DIM W/20A C/8 0312 14 3-A-100, 1-A101 2000 B 3/4", 3/12 INTERIOR FLAME 33 35 2.4 KW DIM W/20A C/8 032A 14 3-A-100, 1-A101 2000 C 2", 2/8 & 1/12 GRD INTERIOR FLAME 34 36 2.4 KW DIM W/20A C/8 033A 7 1-A-1050, 1-A102 2000 C 2", 2/8 & 1/12 GRD RODF/ENTRY 36 37 2.4 KW DIM W/20A C/8 033A 7 1-A-1050 1000 A 2", 2/8 & 1/12 GRD POLE 37
30 2.4 KW DIM W/20A C/B 030 12 4-A100 2000 C 3/4', 3/12 INTERIOR FLAME 30 31 2.4 KW DIM W/20A C/B 030A 12 1-A100, 1-A101,1-A-113 1500 A 3/4', 3/12 INTERIOR FLAME 31 32 2.4 KW DIM W/20A C/B 031 13 4-A112 2000 A 3/4', 3/12 INTERIOR FLAME 32 33 2.4 KW DIM W/20A C/B 031A 13 1-A101, 1-A112,1-A113 1500 B 3/4', 3/12 INTERIOR FLAME 32 34 2.4 KW DIM W/20A C/B 031A 13 1-A101, 1-A101, 1-A101 2000 B 3/4', 3/12 INTERIOR FLAME 33 35 2.4 KW DIM W/20A C/B 032 14 3-A-100, 1-A101 2000 B 3/4', 3/12 INTERIOR FLAME 34 35 2.4 KW DIM W/20A C/B 032A 14 3-A-400, 1-A101 2000 C 2', 2/B & 1/12 GRD INTERIOR FLAME 35 36 2.4 KW DIM W/20A C/B 033 7 1-A-1050, 1-A1020 2000 C 2', 2/B & 1/12 GRD ROF/ENTRY 36 37 2.4 KW DIM W/20A C/B 033 7 1-A-1050, 1-A1020 2000 C 2', 2/B & 1/12 GRD ROF/ENTRY 36 37 2.4 KW DIM W/20A C/B 033 7 1-A-1050, 1-A1020 2000 C 2', 2/B & 1/12 GRD ROF/ENTRY 36 37 2.4 KW DIM W/20A C/B 033 7 1-A-1050, 1-A1020 2000 C 2', 2/B & 1/12 GRD ROF/ENTRY 36
31 2.4 KW DIM W/20A C/8 D30A 12 1-A100, 1-A101,1-A-113 1500 A 3/4", 3/12 INTERIOR FLAME 31 32 2.4 KW DIM W/20A C/8 D31 13 4-A112 2000 A 3/4", 3/12 INTERIOR FLAME 32 33 2.4 KW DIM W/20A C/8 D31A 13 1-A101, 1-A112,1-A113 1500 B 3/4", 3/12 INTERIOR FLAME 32 34 2.4 KW DIM W/20A C/8 D32 14 3-A-100, 1-A101 2000 B 3/4", 3/12 INTERIOR FLAME 33 35 2.4 KW DIM W/20A C/8 D32 14 3-A-100, 1-A101 2000 C 2", 2/8 & 1/12 GRD INTERIOR FLAME 35 36 2.4 KW DIM W/20A C/8 D32A 14 3-A-400, 1-A101 2000 C 2", 2/8 & 1/12 GRD ROOF/ENTRY 35 37 2.4 KW DIM W/20A C/8 D33 7 1-A-1050, 1-A102 2000 C 2", 2/8 & 1/12 GRD ROOF/ENTRY 35 37 2.4 KW DIM W/20A C/8 D34 7 1-A-1080 1000 A 2", 2/8 & 1/12 GRD POLE 37
32 2.4 KW DIM W/20A C/8 D31 13 4-A112 2000 A 3/4", 3/12 INTERIOR FLAME 32 33 2.4 KW DIM W/20A C/8 D31A 13 1-A101, 1-A112,1-A113 1500 B 3/4", 3/12 INTERIOR FLAME 33 34 2.4 KW DIM W/20A C/8 D32 14 3-A-100, 1-A101 2000 B 3/4", 3/12 INTERIOR FLAME 34 35 2.4 KW DIM W/20A C/8 D32A 14 3-A-400, 1-A101 2000 C 2", 2/8 & 1/12 GRD INTERIOR FLAME 35 36 2.4 KW DIM W/20A C/8 D33 7 1-A-1050, 1-A102 2000 C 2", 2/8 & 1/12 GRD ROOF/ENTRY 35 37 2.4 KW DIM W/20A C/8 D34 7 1-A-1080 1000 A 2", 2/8 & 1/12 GRD POLE 37
33 2.4 KW DIM W/20A C/8 031A 13 1-A101, 1-A112,1-A113 1500 8 3/4°, 3/12 INTERIOR FLAME 33 1-A101, 1-A101, 1-A101 2000 B 3/4°, 3/12 INTERIOR FLAME 34 15 2.4 KW DIM W/20A C/8 032A 14 3-A-100, 1-A101 2000 C 2°, 2/8 & 1/12 GRD INTERIOR FLAME 35 1-A101 2000 C 2°, 2/8 & 1/12 GRD INTERIOR FLAME 35 1-A101 2000 C 2°, 2/8 & 1/12 GRD ROOF/ENTRY 35 1-A-1050, 1-A1020 2000 C 2°, 2/8 & 1/12 GRD ROOF/ENTRY 35 1-A-1080 1000 A 2°, 2/8 & 1/12 GRD POLE 37
34 2.4 kW DIM W/20A C/8 D32 14 3-A-100, 1-A101 2000 B 3/4', 3/12 INTERIOR FLAME 34 35 2.4 kW DIM W/20A C/8 D32A 14 3-A-400, 1-A101 2000 C 2", 2/8 & 1/12 GRD INTERIOR FLAME 35 36 2.4 kW DIM W/20A C/8 D33 7 1-A-1050, 1-A1020 2000 C 2", 2/8 & 1/12 GRD ROF/ENTRY 36 37 2.4 kW DIM W/20A C/8 D34 7 1-A-1080 1000 A 2", 2/8 & 1/12 GRD POLE 37
35 2.4 KW DIM W/20A C/8 D32A 14 3-A-400, 1-A101 2000 C 2", 2/8 & 1/12 GRD INTERIOR FLAME 35 36 2.4 KW DIM W/20A C/8 D33 7 1-A-1050, 1-A1020 2000 C 2", 2/8 & 1/12 GRD ROOF/ENTRY 36 37 2.4 KW DIM W/20A C/8 D34 7 1-A-1080 1000 A 2", 2/8 & 1/12 GRD POLE 37
37 2.4 kW DIM W/20A C/8 D34 7 1-A-1080 1000 A 2', 2/8 & 1/12 GRD POLE 37
18 24 MV BULW 1004 0 10 005
- 40 40 ON DIM N/4UN C/O C/O C/O 0 1-A-100 -A10/
70 74 5W PUL W 1991 0 19 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
10 Close 1/2 0 0 1 1 1 1 1 1 1 1
40 SW28A W/20A C/B 10 3-H-101,3-H-102,1-H-103 960 B 3/4*, 3/12 EXTERIOR/INTERIOR BASE 40 41 SW28B W/20A C/B 10 3-H-101,3-H-102,1-H-103 960 C 3/4*, 3/12 EXTERIOR/INTERIOR BASE 41
42 SW28C W/ZOA C/B 10 B-H-102 1536 C 3/4*, 3/12 EXTERIOR/INTERIOR BASE 42
43 SW280 W/ZOA C/B 10 10-H-100 950 A 3/4*, 3/12 EXTERIOR/INTERIOR BASE 43
44 2.4 KW DIM W/2DA C/B D37 15 6-A113 900 A 3/4" 3/12 GFAR FFATURE 44
45 SW41 W/20A C/8 16 B 3/4", 3/12 CAS FLAME 45
46 SW42 W/Z0A C/B 17 B 3/4", 3/12 MISTING DEVICE 46
47 SW43 W/20A C/B 18 C 3/4°, 3/12 STATIC SOUND 47 48 SW44 W/20A C/B 19 C 3/4°, 3/12 STATIC SOUND 47
48 C 3/4. 3/12 EVENT SOUND
ED 204 D/O
1730 S 3/7 S 12 HEXING & VENTIONING 130
51 52 52
53 53
54
55

METERING BY CPP NEW XFMR BY CPP-120/208- 3ø 4W SECONDARY -80 AL CONNECTED LOAD VA -29,108 -28,118 -26,326 83,552 = 232.1 A	240V-3ø-4W 400A FUSED SW NEMA 3R W/400A FUSE STRAND CD-80 DIMMER RACK EXISTING TO LIGHTING EQUIPMENT ENCLOSURE 4-500KCMIL, 3 1/2" C 2-4"ø PVC, SCHEDULE 40 CONCRETE ENCASED UNDERGROUND DUCT BANK. PRIMARY WIRING BY CPP.	CPP XFMR COORDINATE NEW DUCT WORK WITH CPP
<u>St</u>	NGLE LINE DIAGRAM - 120/208-3ø-4W No scole	

Ross De Alessi Lighting Design 2013-Second Avenue Sulu 200 Spollin, Stanforgian 80121 (2007 441-0020 (2017 441-0020 Fee

BASCULE #1 BRIDGE SCHEDULES AND DETAILS

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DECORATIVE LIGHTING NOTES-BASCULE 1

SPECIFICATIONS
THESE NOTES ARE SUPPLEMENTAL TO ITEMS 625 AND 713 OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS AND TO ATTACHED DINSON 16 SPECIFICATIONS. IN CASE OF ANY CONFLICT THE MORE STRINGENT REQUIREMENT WILL APPLY.

GENERAL
THIS PROJECT WILL RECEIVE 208/120 VOLT, THREE PHASE 4 WIRE, SECONDARY
SERVICE, WITH GROUNDED NEUTRAL FROM:

CLEVELAND PUBLIC POWER (C.P.P.) LAKESIDE AVENUE CLEVELAND, OHIO 44114

THE CONTRACTOR WILL NOT BE REQUIRED TO FURNISH OR INSTALL THE PRIMARY DISTRIBUTION LINES, TRANSFORMERS OR TRANSFORMER POLES, THE CONTRACTOR SHULL PROVIDE EXCAVATION, TRANSFORMER PAD PER CPP SPECIFICATIONS, PRIMARY DUCT BANK, SECONDARY CONNECTIONS, FEEDERS, CONNECTION TO BRANCH CIRCUITS AND EXOUNDS AS HEREINATER SPECIFIED AND SHOWN ON THE PLANS AND ASSURE THAT ALL POWER SERVICE REQUIREMENTS OF CPP ARE PROVIDED, CONTRACTOR SHALL PROVIDE PROTECTIVE BOLLARDS AROUND THE CPP TRANSFORMER PER CPP STANDARDS

LUMINAIRES
LUMINAIRES SHALL BE AS SPECIFIED ON THE ATTACHED LIGHTING FIXTURE SCHEDULE.

FIXTURE MOUNTING BRACKETS WOUNTING BRACKETS SHALL BE AS DETAILED IN THE PLANS.

<u>Equipment enclosure</u> <u>Enclosure shall</u> be as manufactured by a-mezz industrial structures, inc. Hudson, ohio,

BUILDING SIZE SHALL BE 9'-0"x3'-0"x8-0" HIGH, (INTERIOR DIMENSIONS) FACTORY ASSEMBLED AND PREFINISHED.

FRAME SHALL BE WELDED TUBULAR STEEL 2"x3"x14CA, AND 3"x3"x14GA. ROOF JOISTS SHALL BE 2"x3"x14CA STEEL TUBING.

EXTERIOR WALLS AND ROOF SHALL BE 11GA. (FLAT) CALVANIZED STEEL WELDED TO FRAME. FLOOR SHALL BE, 3/16" STEEL PLATE W/NON SKID FINISH.

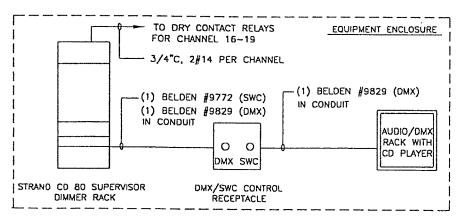
(3) DOORS 3'-0"x7'-0"x11CA INDUSTRIAL STEEL DOOR WITH TAMPER RESISTANT LOCK(S). HAVC (5000 BTUH) WITH HEAT AND AUTO CHANGE OVER.

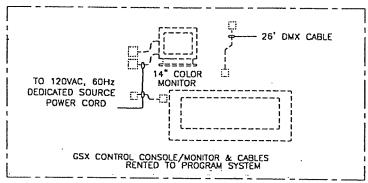
INSULATION: R11 ISOCYANURATE FIBERGLASS FACED.

PROVIDE 4" HIGH CONCRETE PAD/FOUNDATION AND PROTECTIVE BOLLARDS.

PAINT-INDUSTRIAL ENAMEL- EXTERIOR AND INTERIOR COLOR TO BE SELECTED BY OWNER.

UNDERGROUND DUCT BANK
CONTRACTOR SHALL REPAIR PARKING LOT PAVEMENT TO MATCH EXISTING PAVEMENT AFTER
EXCAVATING & INSTALLING THE DUCT BANK(S), RESTORE ALL AREAS TO MATCH EXISTING CONTICUOUS AREA(S).





CONTROL WIRING DIAGRAM -No scole

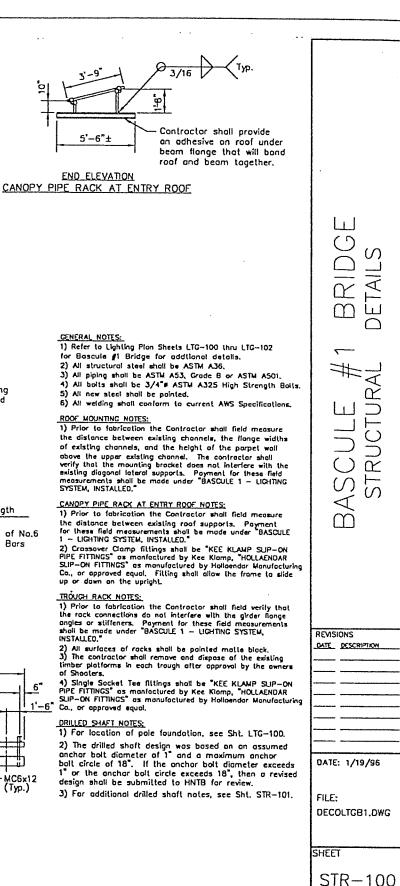
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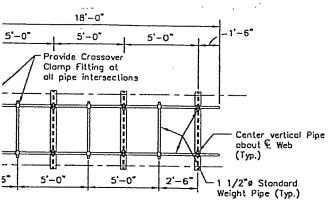
DWKC MUNGER	DESCRIPTION	C
1	2.4 KW DIW W/20A C/8 01	士
2	2.4 KW DIM W/20A C/B D2	-
3 4	2.4 KW DIM W/20A C/B D3	-
5	2.4 KW DIM W/20A C/B D4 2.4 KW DIM W/20A C/B D5	-
6	2.4 KW DIM W/20A C/8 D6	+
7	2.4 KW DIM W/20A C/8 D7	-+
В	2.4 KW DIM W/20A C/8 DB	-
9	2.4 KW DIM W/20A C/8 D9	-
10	2.4 KW DIM W/20A C/B D10	\top
11	2.4 KW DIM W/20A C/B 011	
12	2.4 KW DIM W/20A C/B D12	
13	2.4 KW DIM W/20A C/8 D13	
14	2.4 KW DIM W/20A C/8 D14	
15	2.4 KW DIM W/20A C/8 D15	
16	2.4 KW DIM W/20A C/8 D16 2.4 KW DIM W/20A C/8 D17	-
18	2.4 KW DIM W/20A C/B D17 2.4 KW DIM W/20A C/B D1B	
19	2.4 KW DIM W/20A C/8 D19	
20	2.4 KW DIM W/20A C/8 020	
21	2.4 KW DIM W/20A C/B D21	-
22	2.4 KW DIM W/20A C/8 D22	+
23	2.4 KW DIM W/20A C/8 023	7
24	2.4 KW DIM W/20A C/8 D24	1
25	2.4 KW DIM W/20A C/B D25	
25	2.4 KW DIM W/20A C/8 D25	
27	2.4 KW DIM W/20A C/B D27	
28	2.4 KW DIM W/20A C/8 D29	
29	2.4 KW DIM W/20A C/B D29A	
30 31	2.4 KW DIM W/20A C/B D30 2.4 KW DIM W/20A C/B D30A	- -
32	2.4 KW DIM W/20A C/8 D31	
33	2.4 KW DIM W/20A C/8 D31A	-
34	2.4 KW DIM W/20A C/B D32	+
35	2.4 KW DIM W/20A C/B D32A	_
36	2.4 KW DIM W/20A C/B D33	\neg
37	2.4 KW DIM W/20A C/B D34	
38	2.4 KW DIM W/20A C/B D35	
39	2.4 KW DIM W/20A C/B D36	
40	SW28A W/20A C/8	4
42	SW280 W/20A C/8 SW28C W/20A C/8	-
43	SW28D W/20A C/B	
44	2.4 KW DIM W/20A C/8 D37	
45	SW41 W/20A C/8	
46	SW42 W/20A C/8	_
47	5W43 W/20A C/8	\top
48	SW44 W/20A C/B	1
49	20A C/B	I
50	20A C/B	1
51	***************************************	4
52		4
53	· · · · · · · · · · · · · · · · · · ·	+
J7		

METERING BY CPI

NEW XFMR BY -CPP-120/208-30 4W SECONDARY

CO-80 TOTAL CONNECTED LOAD VA A-29,108 © B-28,118 © C-26,326 83,552 = 232.1 A





PLAN

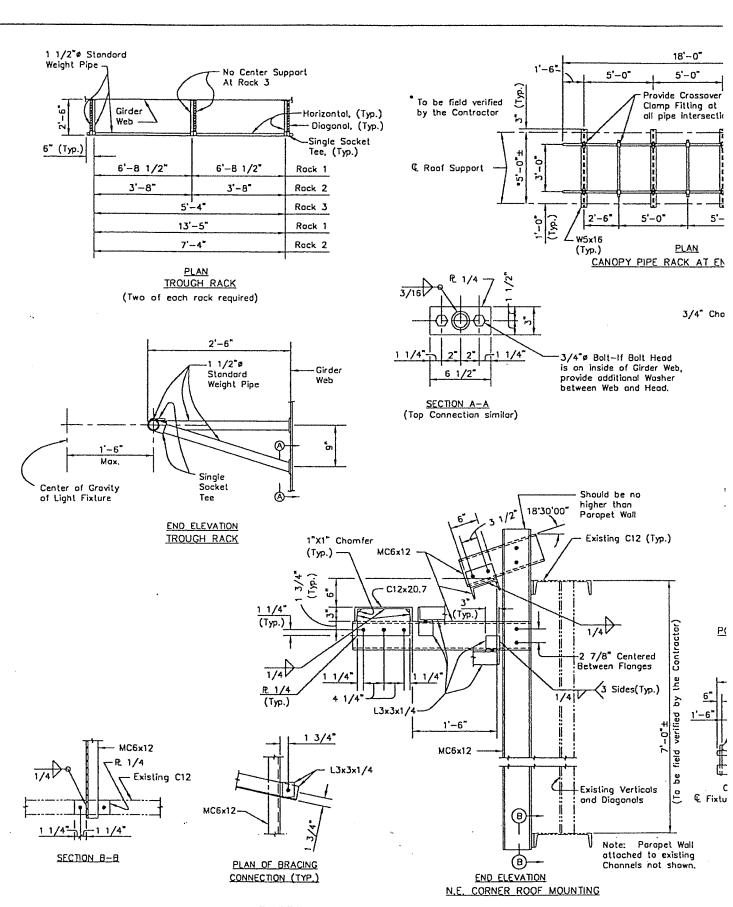
NOPY PIPE RACK AT ENTRY ROOF

2'-0"ø 2" Clear 3/4" Chamfer It-If Bolt Head de of Girder Web. 3'-0" 6-No.6 ditional Washer Yeb and Head. (Max. Existing Ground 0 Ties 8-No.4 13'-0" No.4 d be no than No.6 et Wall 21" Lop Length Cleo :ing C12 (Typ.) Boltom of No.6 Vertical Bars

(One required) I" Centered en Flonges 31'-0" Sides(Typ.) 6 5 Equal Spaces 6 6'-0" = 30'-0" δ 1'-6' 9 Equal Spaces © 3'-0" = 27'-0" verified 7'~0"± MC6x12 Vertical (Typ.) MC6x12 field C12x20.7 ig Verticols € Fixture(typ.) liagonols PLAN VIEW N.E. CORNER ROOF MOUNTING

DRILLED SHAFT ELEVATION POLE FOUNDATION AT MEDIAN

lote: Parapet Wall ittached to existing channels not shown.



1 AAA -4 RESTROOM RESTROOM CUYAHOGA RIVER 4 () TECHNOL, BURKER
(2) CHOSS BURKER
(3) CHOSS BURKER
(3) CHO 150KM 177/460V TRANSFORMER (CESTING)
(6) POWER PARIL, SEE DILARMS STR-102 FOR COURMENT LATOUT HI CONTROL TOWER.
(5) STEAM ISSUÉS UNIT
(6) VERRY LOCATION W/DAD STAGE AREA

> SITE LIGHTING PLAN SCALE: NONE, FOR REFERENCE ONLY

GENERAL NOTES:

- SEE DETAIL SHEETS AND DIMMING & CONTROL SCHEDULES FOR FOTURE TYPE, LOCATIONS, DIMMING AND LOAD INFORMATION.
- 2 MOUNT POLE AGAINST FENCE THIS LOCATION.
 3 DIRECTION OF POLE LEAN.
- UNDERGROUND CONCRETE ENCASED DUCT BANK. SEE DRAWING LTG-101 FOR CONDUIT AND WIRE FILL
- CPP SERVICE POLE WITH CONTROL CENTER AND METERING, SEE DRAWING LTG-104.

Ross De Alessi Lighting Design 2815-30004 Autous S.As 200 Seeting Bundayin 86121 (200) 441-0820 (200) 441-9826 Fee

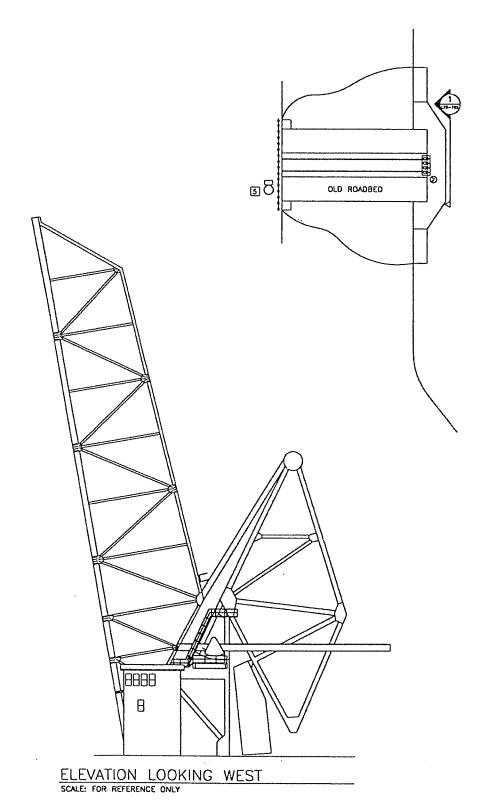
REVISIONS DATE DESCRIPTION Ó

DATE: 1/19/96

SHEET

LTG-100

PAGES: 10



CUYAHOGA RIVER

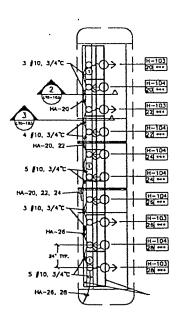
5

GENERAL NOTES:

- 9090000 2-2°C, 16/34 (% THINK/THINK CU TO ROTTH POLE

- H-106 POWER SUPPLY
- HEATHGAOITLATHG COUPMON
- ROWL HODEL MS. SAIM W/100W

-8'-0"-Θ INTERNAL LICHTING COMPARTMENT DOORS WITH VANCAL PROOF LECKING WEST ELEVATION



UPPER CATWALK UPLIGHTING

Ross De Alessi Lighting Design
2015-Second Among Safe 200
2015-Second Administration
2009 441-0929
2009 441-0929
2009 441-0929

REVISIONS

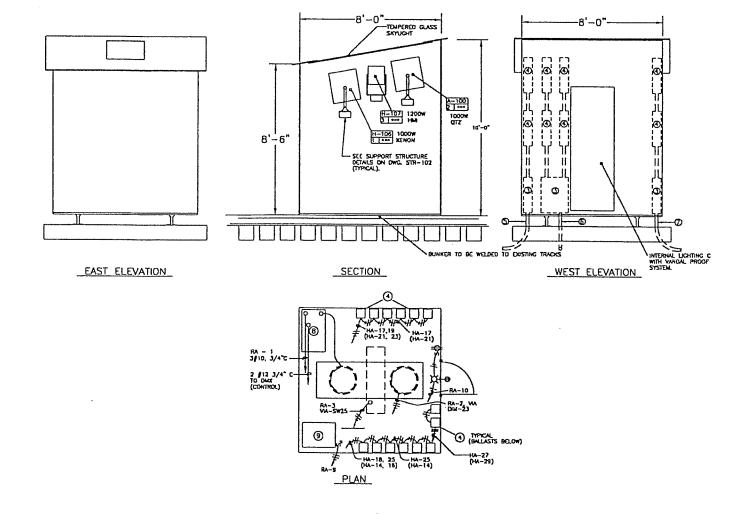
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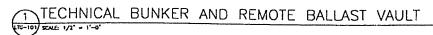
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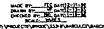
LTG-101

ILT







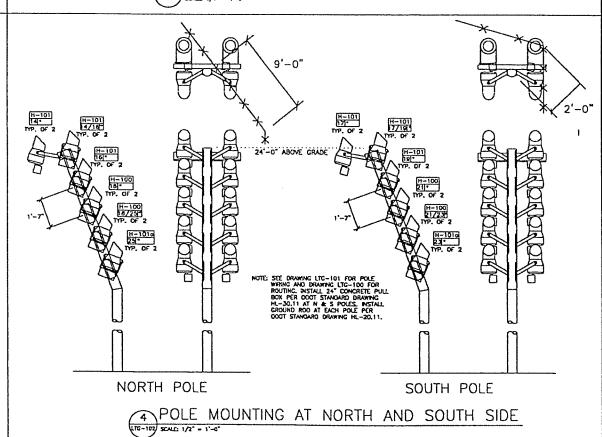


erae Ni

PLAN

FIXTURE CHANNEL TYPICAL BOTH SIDES

2 LANDING DOWNLIGHTING



Ross De Alessi Lighting Design 2013-Samurd Avenus Scho 2000 Smiller, Washington 20121 (2001) 441-0070 (2001) 441-0070

BASCULE #2 BRIDGE

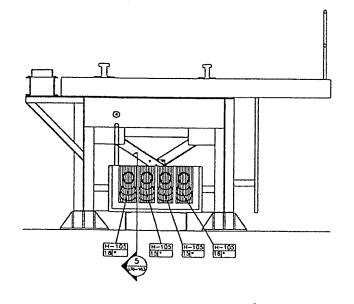
REVISIONS

DATE DESCRIPTION

DATE: 1/19/96

SHEET

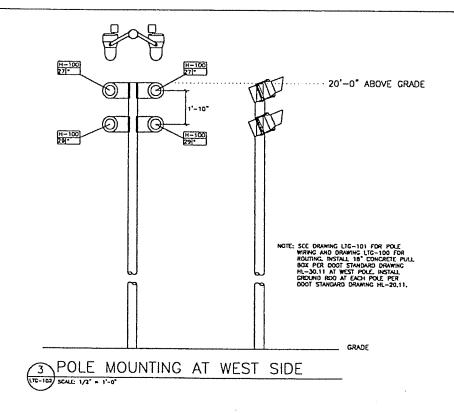
LTG-102

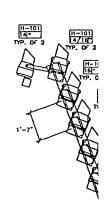


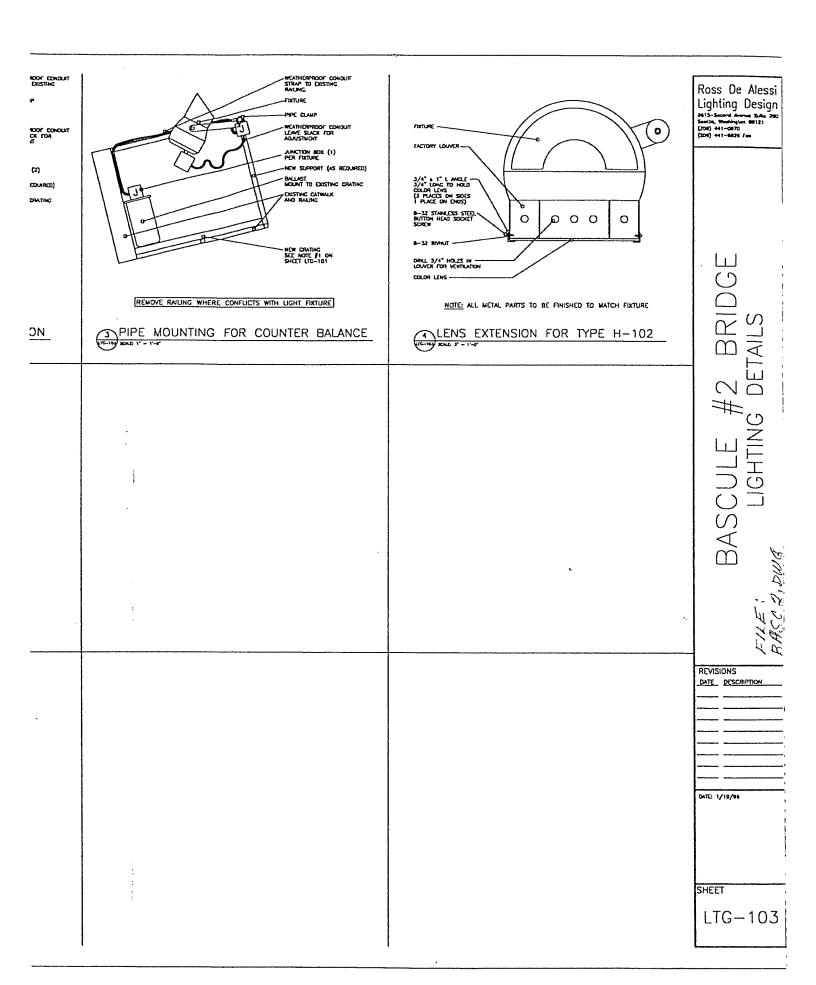
- GENERAL NOTES:

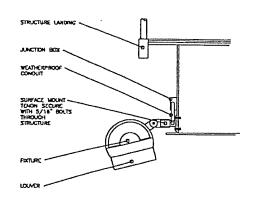
 ① BUT NOTES TO FOLLOWING WITH JAY NOTES BOUTS AS SPECIFIED BY STAU DISPECIAL.

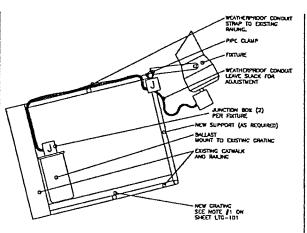
CROSS BUNKER AIMING AT UNDERSIDE OF BRIDGE

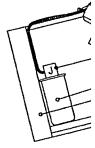










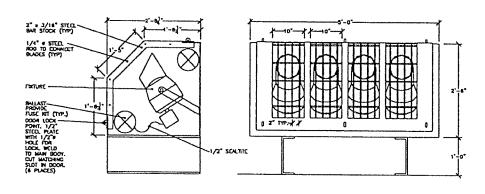


MOUNTING AT LOWER LANDING TYPICAL

PIPE MOUNTING FOR LIFT SECTION



REMOVE RA



NOTE: CONTRACTOR TO PROVIDE LOCKS PER SPECIFICATION.



NG X EMO AMPS VA 2 45 7710 10000 4 6900 10000 5 8000 10000 8 70 3045 10 3045 5000 18 5000 5000 3043 UH-1 10000 XFWR - RA 30KYA STEAM FSWS.5 UNIT 7.5HP STEAU FSW3.5 UNIT 7.5HP | 30-03 | 7 | 30-03 | 7 | 30-03 | 7 | 30-03 | 7 | 30-03 | 7 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 30-03 | 100A - 3P

LANONG -N- 3-H102

LANONG -S- 3-H102

SOUTH POLE-3-H-101 BALLASTS 3A25

MORTH POLE-3-H-101 BALLASTS 3A25

WESTPOLE 2-H100

WESTPOLE 2-H100

Z550

SPACE

SPACE FUSED 60A 3 POLE DISCONNECT LOADS VA 33,845 AMPS EM.O. SUMMARY TOP FEED LUCS PHASE A P CCTS. CAUR. 0 25A 35,120 PHASE B 18 - 1 P CCTS. CAUR. 0 20A 33,845 1 - 3 P CCTS. CAUR. 0 45A 3 POLE CONTACTOR 102,600 124 TOTAL CONNECTED 2 - 3 P CCTS, CAUG. 9 20A 120VOLT COIL SPACES & SOX CAL ... P CCTS, CAUBL ... 1 - 1 P SPACES CONSTANT SECTION (NOT SHOWN) MOUNT CONTROL CENTER ON SERVICE POLE. POLE BY CPP. 4 - 1 P SPACES CONTACTOR SECTION FEEDER AND CONDUIT SIZE 4 \$1/0, 2°C TO 2004 F/SW W/1504 TUSES TOTAL NUMBER OF POLES 36 ENCLOSURE PER ODOT SPECIFICATIONS & STD. DWG. HL-40.10 120/208 500 008 AMPERE RATING BOA MCB PANCE NO. RA W AMPS END SHO NOTE DIO AMPS VA DESCRIPTION DESCRIPTION 1000W XENON-H106 SW24 SW25-H-107 SW27 SOUND SW1 CONTACTOR CONTROL 1500 TIME SWITCH TORK #7200ZL 2000 SPARE
SOUND SYSTEM
SOUND SYSTEM
SOUND SYSTEM 2000 2000 2000 2000 SOUND SYSTEM 2000 SOUND SYSTEM LONOS VA 7,710 AUPS E.W.O. SUMMEY 17 - 1 PHASE A P OCTS. CAUR. 0 _ 8,900 PHASE B P CCTS. CAUR 0 254 'ER PHASE C 6,000 _ P CCTS. CAUB. . 62.5 22,610 TOTAL CONNECTED _ P CCTS, CALIB. . SPACES & SOX CAL P CCTS. CALIBL . 30,000 دره FEEDER AND CONDUIT SIZE 4 12, 2°C ZZJOR TO ROBNUM JATOT

500 NHB

AMPERE RATING 225A MLD PANEL NO. HA

DESCRIPTION

__W___JYPE_

WA AMPS ENO THE

277/480

DESCRIPTION

Ross De Alessi Lighting Design

2615-Second Avenue Sule 280 Sectio, Westington 98121 (206) 441-0870 (206) 441-9826 Fee

SCHE

DATE:	1/19/96
1104131	U:13

REVISIONS

SHEET

LTG-104

EXISTING CPP TRANSFORMER AND METERING-150KVA-277/480V 3#-4W_SECONDARY	
W 4 #1/0, 2°c	NOTE: SEE DRAWING STR-102 FOR EQUIPMENT LAYOUT AND KEYED NOTES. 4 #6, 1 °C #8 GRD. TO BUILDING GROUND SYSTEM. CONTROL ROOM

SINGLE LINE DIAGRAM - 277/480-30-4W + 120/208V-30-4W

DECORATIVE LIGHTING NOTES-BASCULE 2

CONTROL WIRING DIAGRAM

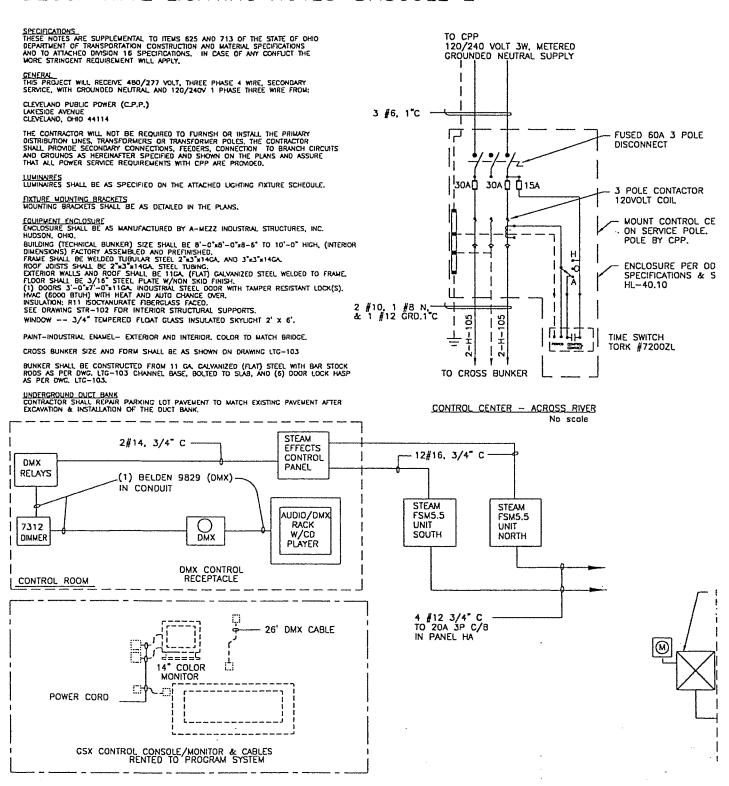
NO SCOLE

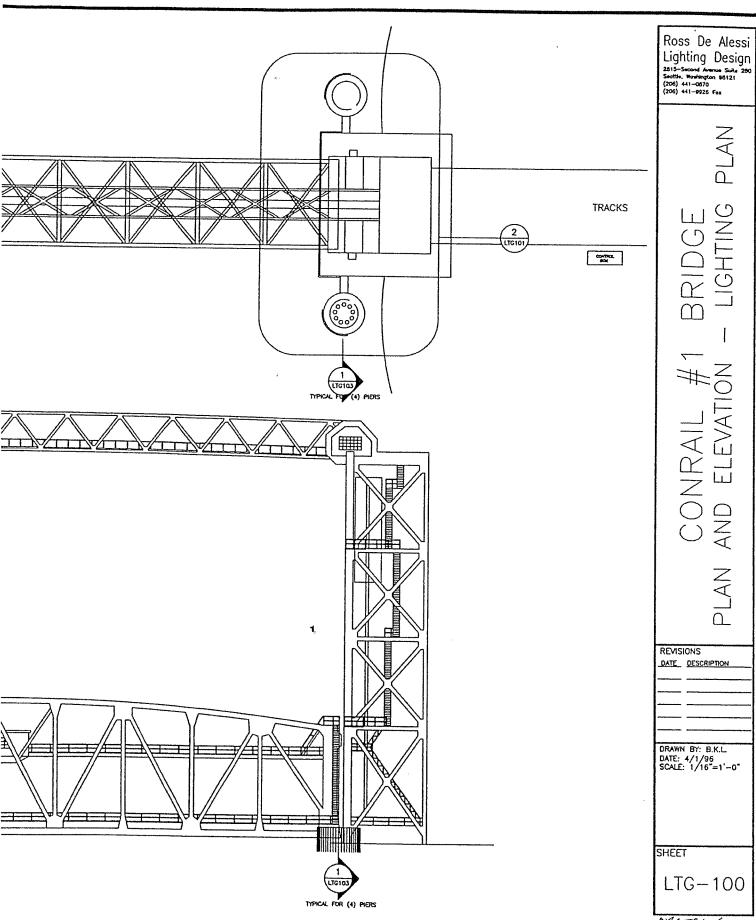
NO NEEDLES TAMMEN & BERGENOOFF
ARCHITECTS ENGINEERS PLANNERS FINES

CONTROL WIRING DIAGRAM

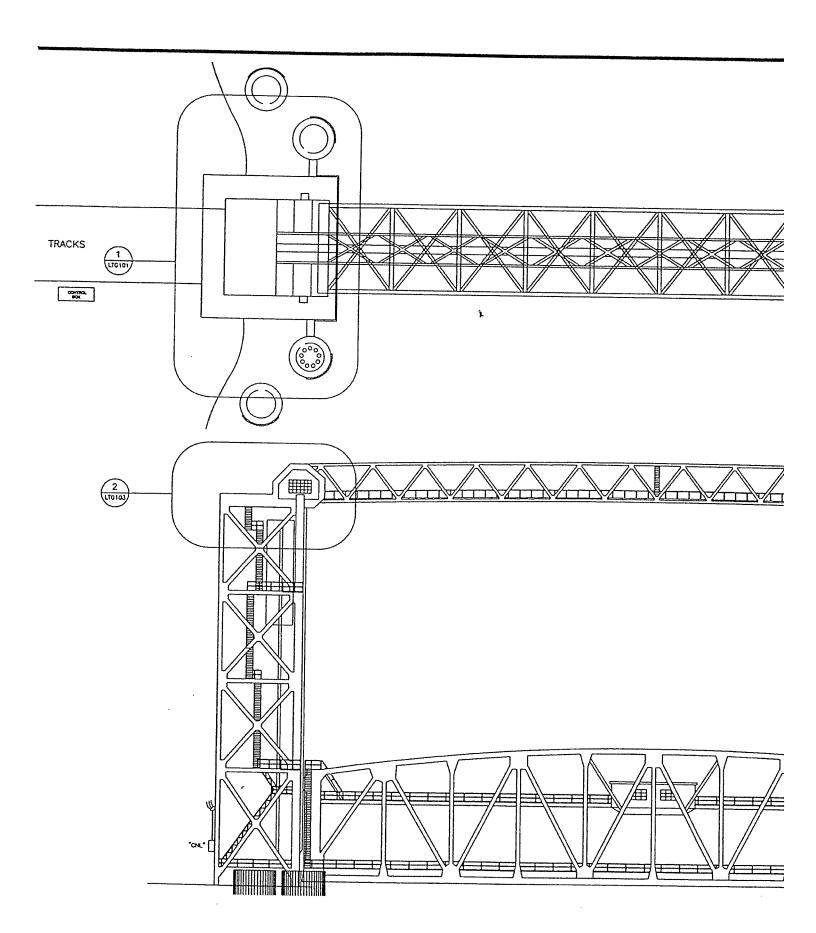
NO NEEDLES TAMMEN & BERGENOOFF
CONTROL WIRING DIAGRAM

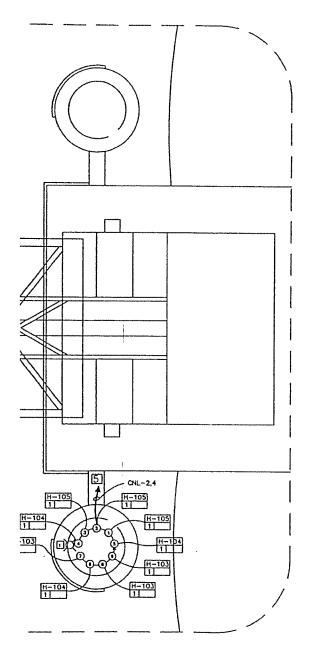
SAME FT. WIRING





PAGES! 6





FIXTURE	AIMING	AND	TYPE
INIONE	CHIMITAG	DINU.	

- TOWER BOTTOM (FLOOD)
- (1) TOWER BOTTOM (FLOOD)

 2) TOWER BOTTOM (FLOOD)

 3) TOWER BOTTOM (FLOOD)

 4) TOWER MIDDLE (LINEAR)

 5) TOWER MIDDLE (LINEAR)

 6) TOWER MIDDLE (LINEAR)

 7) TOWER MIDDLE (LINEAR)

 8) TOWER TOP (SPOT)

 9) TOWER TOP (SPOT)

Ross De Alessi Lighting Design
2215-5-cond Avenue Suite 250
5-cattle, Washington 88121
(200) 441-0970
(206) 441-0925 Fax

REVISIONS

DATE DESCRIPTION

DRAWN BY: B.K.L. DATE: 4/1/96 SCALE: 1/8"=1'-0"

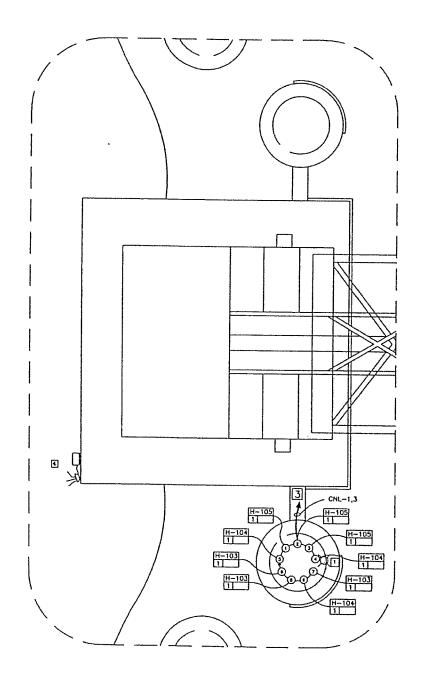
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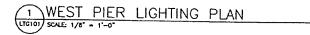
LTG-101

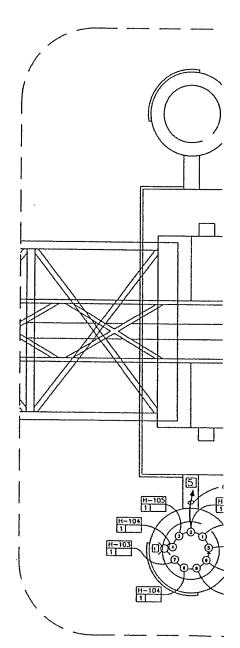
MIGATION LIGHT & ACROSS FIXED

1/2"C TO "CNL" "CHL". VERIFY LOCATION W/CE 1/2°C TO "CHL"

PIER LIGHTING PLAN





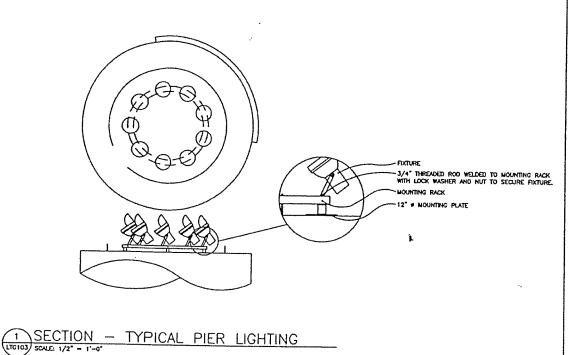


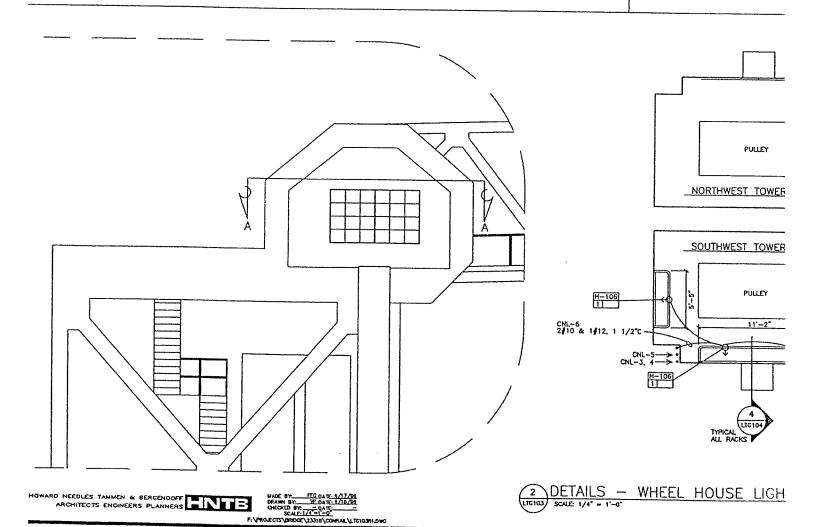
NOTES:

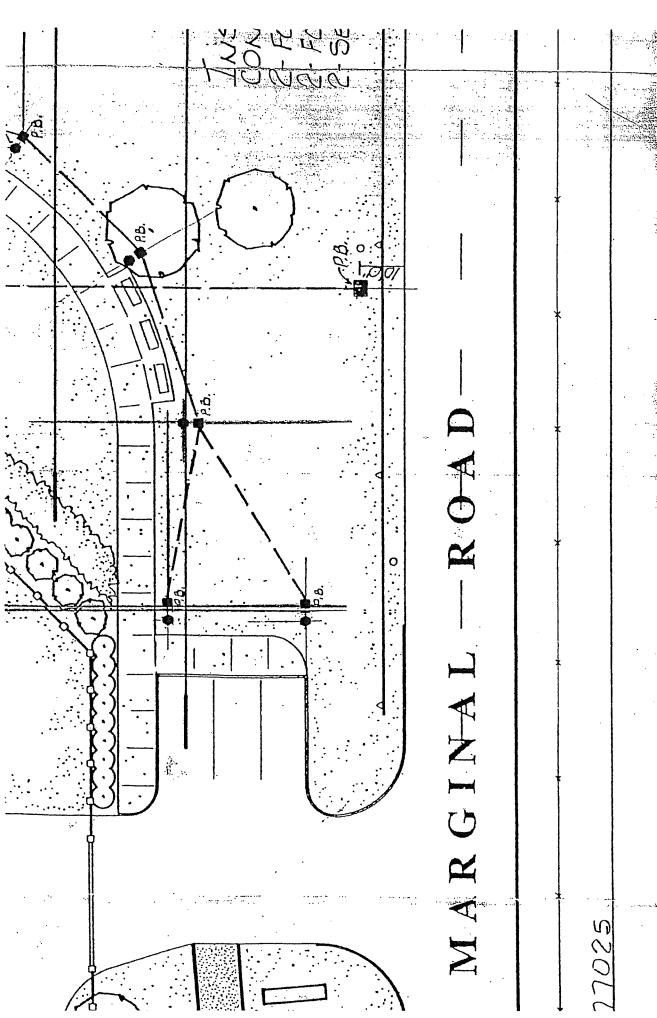
- T CAISTING NAVIGATION LIGHT
- ROUTE UP TOWER & ACROSS FIXED SPAN TO "CNL"
- 3 4 \$10 & 1\$12, 1 1/2"C TO "CHL"
- CONTROL CENTER "CHL", VERIFY LOCATION W/CE
- 5 4 16 & 1412, 1 1/2°C TO "CHL"

2 EAST PIER LIGHTING

Ross De Alessi Lighting Design
2815-5econd Amenus Suita 280
Sectita, Wachington 88121
(208) 441-0870
(208) 441-9926 Fax CONRAIL SECTIONS AND DE PULLEY PULLEY NORTHWEST TOWER WINDOW NORTHEAST TOWER WINDOW Ą SOUTHWEST TOWER WINDOW SOUTHEAST TOWER WINDOW REVISIONS DATE DESCRIPTION PULLEY PULLEY H-106 H-106 11'-2" CNL-5 2 /8 & 1/12, 2°C H-106 DRAWN BY: B.K.L. DATE: 4/1/96 SCALE: 1/4"=1'-0" SECTION A-A (TYPICAL) SHEET SCALE: 1/4" - 1'-0" L HOUSE LIGHTING TYPICAL LTG-103







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