Matt McWilliams

From:

Scott Weeks [Scott.Weeks@madison-co.com]

Sent:

Monday, September 07, 2015 11:28 AM

To:

Matt McWilliams

Subject:

RE: David Harkins shop

Matt,

I will have to have a letter from Bear Creek advising adequate flow at the fire hydrant, location of fire hydrant, erosion control plan, landscaping plan, color renderings of the building, distances from property line to building front side and rear locations of any easements, ROW, traffic daily count as to the number of vehicles generated from this business, and a DEQ permit.

Scott

From: Matt McWilliams [mailto:Matt@thrashco.com]

Sent: Thursday, September 03, 2015 11:23 AM
To: Scott Weeks < Scott. Weeks@madison-co.com >
Cc: Nolan Williamson < NWilliamson@bcwaterms.org >

Subject: RE: David Harkins shop

Scott/Nolan:

Please see the attached preliminary drawings for the referenced project. Please give us any feedback or comments that you may have. We are working to submit the drawings for site plan review to Madison County by September 11.

Thanks,

Matt McWilliams



Thrash Commercial Contractors, Inc. 211 Commerce Drive Brandon, MS 39042 Mobile (601) 214-4788 Voice: (601) 825-8967

Email: matt@thrashco.com

Matt McWilliams

From:

Don McGraw [dmcgraw@montgomerymcgraw.com] Tuesday, September 15, 2015 9:05 AM Matt McWilliams

Sent:

To:

Subject: Attachments:

David Harkins 0892_001.pdf

Matt-Letter from Scott Weeks attached affirming zoning as C-2.. I don't see any easements on the title search. They are probably all within the road right of way.

Don

From: Montgomery, McGraw PLLC [mailto:mmcolaw@comcast.net]

Sent: Tuesday, September 15, 2015 9:04 AM

To: Don McGraw

Subject: Attached Image



MADISON COUNTY BOARD OF SUPERVISORS

125 West North Street • Post Office Box 608 Canton, Mississippi 39046 601-855-5500 • Facsimile 601-855-5759 www.madison-co.com

February 11, 2015

The Jefferson Bank

Re:

Agnes W. Stanley property

Tax Parcel # 082E-15-002/01.00

Dear Sir/Madame,

The Madison County Board of Supervisors approved the Planning Commission's recommendation on February 2, 2015 to approve rezoning 29.16 acres from A-1 Agricultural to C-2 Commercial. The Board of Supervisors minutes will be approved February 17, 2015. A copy of the Board of Supervisors minutes are not available online at this time and should be posted by March 2015 on the Madison County website. If you need further information, please advise.

Sincerely,

Scott Weeks, Administrator

Planning and Zoning



P. O. Box 107 Canton, MS 39046 Phone: (601) 856-5969 Fax: (601) 856-8936

September 14, 2015

Scott Weeks Madison County Planning and Zoning Administrator

RE:

Thrash Commercial (NE corner of Church Road and Old Jackson Road)

Section 15, T8N, R2E

Madison County, Mississippi

Dear Scott:

Matt McWilliams of Thrash Commercial Contractors requested some information concerning fire flow capabilities near the northeast corner of Old Jackson Road and Church Road. Our computerized hydraulic model of our water system shows pressures in that area to be around 60 PSI. This is within the recommended pressure range set by the Mississippi State Department of Health (20-80 PSI recommended). Also, due to our 12" waterline on the east side of Old Jackson Road, our hydraulic model shows that the fire hydrants will produce an adequate flow for fire protection purposes.

The closest fire hydrant we have is approximately 700 feet north of the property on the east side of Old Jackson Road. There is also a fire hydrant located across the street from the property, but that hydrant is not owned by Bear Creek Water Association.

Please contact me if you need any additional information.

Sincerely,

Nolan P. Williamson, P.E.

Mar Will

General Manager

Submit only upon request from MDEQ



SMALL CONSTRUCTION NOTICE OF INTENT (SCNOI)

GENERAL NPDES PERMIT MSR15 __ __ _ (Number to be assigned by MDEQ if submitted)

Prior to the commencement of small construction activity (see Small Construction General Permit ACT11, T-27), the owner or operator of a small construction project must complete this form and develop a Storm Water Pollution Prevention Plan (SWPPP) as required by ACT5 of Mississippi's Small Construction General Permit. This SCNOI and SWPPP shall be submitted to the Mississippi Department of Environmental Quality (MDEQ) only upon request from MDEQ; however, the SCNOI and SWPPP must be maintained at the permitted site or locally available in case inspector review is necessary. Attachments with this SCNOI must include: a USGS quad map or copy showing site location (only if required to be submitted to MDEQ) and a Storm Water Pollution Prevention Plan (SWPPP). All questions must be answered – answer "NA" if the question is not applicable.

PROJECT INF	ORMATION
OWNER CONTACT PERSON: DAVID HARKINS OWNER COMPANY NAME: DEH TRUCKING, INC. OWNER STREET (P.O. BOX):	OPERATOR (if different from owner) CONTACT PERSON: MATT MCWILLIAMS OPERATOR COMPANY: THRASH COMMERCIAL CONTRACTORS OPERATOR STREET (P.O. BOX): ZII COMMERCE ARIVE
P.O. BOX 1022 OWNER CITY: CLEVELAND	OPERATOR CITY: BRANDON
STATE: MS ZIP: 38732 OWNER PHONE # (INCLUDE AREA CODE): (62-588-731)	STATE: MS ZIP: 3964Z OPERATOR PHONE # (INCLUDE AREA CODE): 601 825 8967
PROJECT NAME: DEH TRUCKING ADDESCRIPTION OF CONSTRUCTION ACTIVITY: BUT ACREAGE DISTURBED (to be covered by this permit, area in PHYSICAL SITE ADDRESS (If not available, indicate the new of the project and identify all countles the project traverses.): STREET: 3200000 JACK5000 CITY: CANTON COUNTY: NEAREST NAMED RECEIVING STREAM:	nust be less than five (5) acres): 2.5 ACRES
I certify under penalty of law that this document and all attachments were prepared up that qualified personnel properly gathered and evaluated the information submitted. It persons directly responsible for gathering the information, the information submitted aware that there are significant penalties for submitting false information, including the signature. Thomas M. (Matt) M. William	Date Signed PRINCIPAL Title

If requested, please submit this form to:

Chief, Environmental Pennits Division MDEQ, Office of Pollution Control P.O. Box 2261 Jackson, Mississippi 39225



State of Mississippi Mississippi Department of Environmental Quality (MDEQ) Office of Pollution Control (OPC)



SMALL CONSTRUCTION GENERAL PERMIT

FOR LAND DISTURBING ACTIVIES OF ONE (1) to LESS THAN FIVE (5) ACRES

TO DISCHARGE STORM WATER AND ALLOWABLE NON-STORM WATER FROM REGULATED CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

THIS CERTIFIES THAT

FACILITIES OR PROJECTS ISSUED A CERTIFICATE OF PERMIT COVERAGE UNDER THIS PERMIT ARE GRANTED PERMISSION TO DISCHARGE STORM AND/OR ALLOWABLE NON-STORM WATER FROM REGULATED CONSTRUCTION ACTIVITIES INTO STATE WATERS

in accordance with effluent limitations, inspection requirements and other conditions set forth in herein. This permit is issued in accordance with the provisions of the Mississippi Water Pollution Control Law (Section 49-17-1 et seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder, and under authority granted pursuant to Section 402(b) of the Federal Water Pollution Control Act.

Mississippi Environmental Quality Permit Board

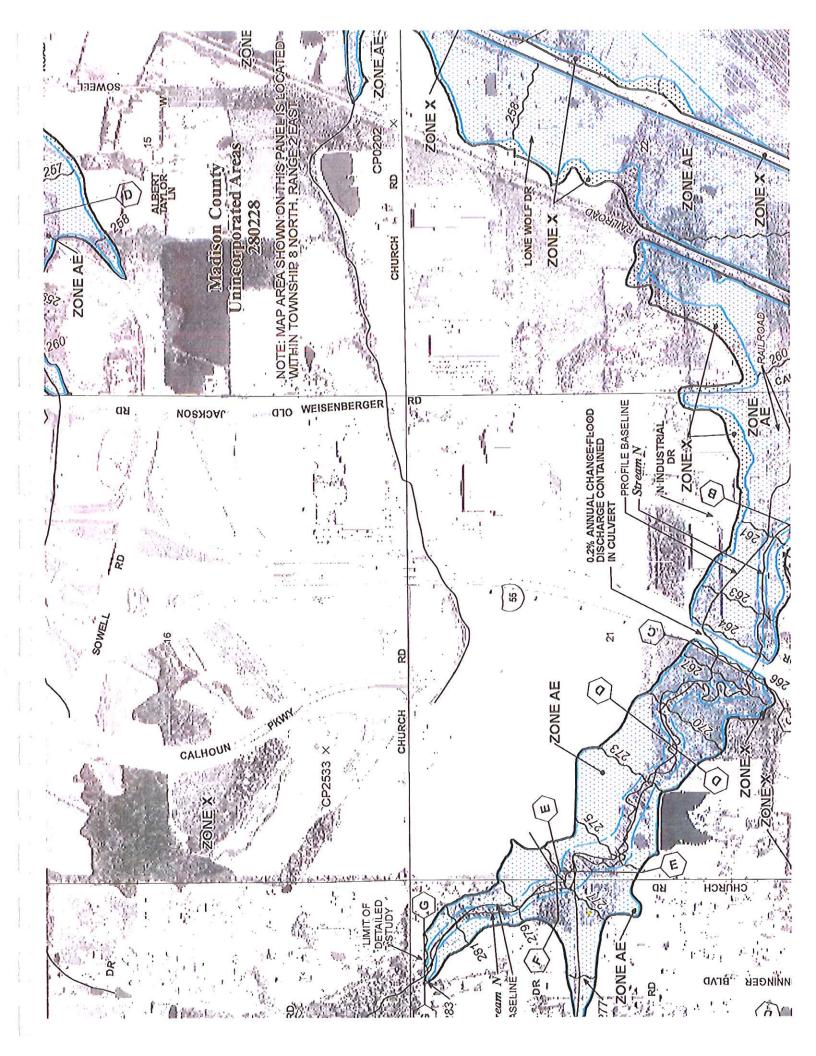
Authorized Signature

Mississippi Department of Environmental Quality

Issued: April 18 2013

Expires: March 31 2018

Permit No. MSR15



PERIMALITER® LED WALLPACKS PGM3/PVL3

Cat.#

Job

Туре



HUBBELL Outdoor Lighting

Approvals

SPECIFICATIONS

Intended Use:

Perimeter lighting for safety, security and identity - LED units provide 60-70% energy savings over typical pulse start wallpacks. Uses include office buildings, shopping centers, restaurants, schools, warehouses, parking garages and other commercial applications

Construction:

- The die-cast aluminum housing provides firm mounting over recessed junction boxes 32" side hubs included for surface conduit wiring. Housing includes a top hub for use with button photo controls for dusk-to-dawn control. The construction not only provides a rigid mount but an excel-tent heat sink for the LED system, allowing proper operating temperature for optimum performance and long life
- · Two door options are available: A cast aluminum and prismatic borosilicate glass assembly for typical commercial applications (PGM3) and an all polycarbonate, one-piece, vandal resistant door for use in non-supervised locations (PVL3)
- · Standard finish is dark bronze textured powder paint. The PGM3 version is available in alternate finishes of black, white, gray and platinum silver

LED:

- 30 high powered LEDs in 2 parallel series, produce up to 5600 lumens (82 LPW) in PGM3 and 5337 lumens (73 LPW) in PVL3
- CCT 3000K (80 CRI), 4000K (70CRI), 5000K (67 CRI)

Electrical

- 120-277V universal voltage 50/60Hz, dimmable
- Driver RoHS and IP66
- 34w (1 driver, 350mA) or 71w (2 drivers, 700niA) options available
- · Drivers have greater than .90 power factor and less than 20% Total Harmonic Distortion

Drivers are 0-10V dimming standard. Photocell and occupancy sensor options available for complete on/off and dimming control

Egress Version

. Minimum of 1fc at 12' mounting height covering 10'x10' square in battery mode

Listings:

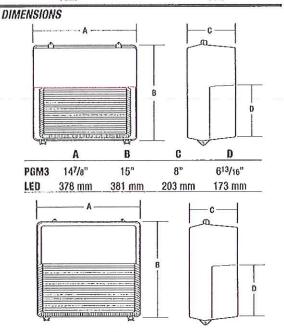
Listed to UL 1598 for use in wet locations, -40°C to 40°C ambient environments.

Five year limited warranty (for more information visit: http://www.hubbelloutdoor.com/resources/ warranty/

PRODUCT IMAGE(S)







B

15"

381 mm

A

147/8"

378 mm

PVL3

LED

C

8"

203 mm

D

77/16"

189 mm

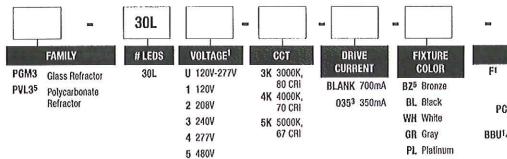
CERTIFICATIONS/LISTINGS







ORDERING INFORMATION ORDERING EXAMPLE: PGM3-30LU-5K-BZ



- Voltage specific option, designate in voltage field
 O-10V fully adjustable dimming with automatic daylight callbration and different time delay settings, must order minimum of one remote to program dimming settings, 120V or 277V only
 BBU only available in 350mA, 120V or 277V only
 PC option not applicable, included in sensor

F 347V

- 5 PVL3 only available in BZ Bronze fixture color

- HUBBELL Outdoor Lighting (TUBBILL)

SP Surge protector, 10KA, 273 joules

OPTIONS

Fusing (voltage determined by volt-

age field) Single fusing only 120V,

PERFORMANCE DATA

(5000K n			5K OK nomina	1, 67	CRI)		(400	4 OK nom		O CRI)		(300	3 OK nom		o CRI)			
# OF LEDS	DRIVE Current	SYSTEM WATTS		LUMENS	LPW1	В	U	G	LUMENS	LPW ¹	В	U	G	LUMENS	LPW ¹	В	U	G
00	350mA	35w	PGM3 PVL3	3209 2757	92 79	0	3	3	2955 2614	84 75	0	3	3	2338 2089	67 60	0	3	3
30	700mA	68w	PGM3 PVL3	5678 5337	84 72	0	4	4	5157 4505	76 66	0	4	4	3932 3492	58 51	0	4	3

Lumen values are from photometric tests performed in accordance with IESI/A LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

ELECTRICAL DATA

# OF LEDS	DRIVE CURRENT (niA)	INPUT VOLTAGE (V)	CURRENT (Amps)	SYSTEM POWER (W)
		120	0.28	35
	-035 (350mA)	277		35
		347		35
20		480		35
30	OTD (700A)	120	0.58	68
		277		68
	STD. (700mA)	347		68
		480		68

PROJECTED LUMEN MAINTENANCE

			OPERATIN	G HOURS		
Ambient Temp.	0	25,000	50,000	TM-21-11 ¹ 60,000	100,000	L70 (hours)
25°C/77°F	1.00	0.96	0.95	0.94	0.92	597,000
40°C	0.99	0.95	0.93	0.93	0.90	417,000

1. Projected per IESI/A TM-21-11 amb'ent, based on 10,000 hours of LED testing per IESI/A LM-80-08.

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

AMBIENT TEMP	PERATURE	LUMEN MULTIPLIER
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99
50°C	122°F	0.98

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

ACCESSORIES

ACCESSORIES

(order as separate part #)

Catalog Number	Description
PBT-1	Photo control, button type, 120V
PBT-234	Photo control, button type, 208, 240, 277V
PQ-PS1	Polycarbonate shield for refractor for PGM3
PQ-WQ1	Wire guard for refractor for PGM3
PVL3V	Full cut-off visor, formed aluminum, bronze finish
SCP-REMOTE ²	Remote control for SCP option. Order at least one per project to program and control.

- 1 Guard & sh'eld can be used on the same foture
- 2 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, must order minimum of one remote to program dimming settings, not available in 208V, 240V, 347V or 480V

REPLACEMENT PARTS

(order as separate part #)

Catalog Number	Description
200-0180-9904	Replacement lens/door PVL3
800-3399-0104	Replacement lens/door PGM3

Swain Project - Strip Shopping Ctyr

Catalog Number: XLCM FT LED SS CW UE BRZ

Notes:

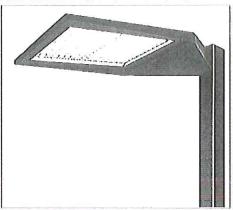
Type:

LED LIGHTING YECHHOLOGY

23,000 LUMEN

MISSISSIPPI15-53008

LED AREA LIGHTS - LSI SLICE MEDIUM (XLCM)



DOE LIGHTING FACTS

Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit www.lightingfacts.com for specific catalog strings.

LIGHT	TOUT!	OUT - XLC			
		Туре З	Lumens (Nom)	Tall Type 5	(Nominal)
Cool	SS	19800	22800	22900	193
8 5	H0	27100	30900	31100	278
Es	SS	19000	18400	18500	193
Neutral White	но	26300	24100	23900	278

LEO Chips are frequently updated therefore values may increase.

US & Int'l, patents pending

SMARTTECTM - LSI drivers feature integral sensor which reduces drive current, when amblent temperatures exceed rated temperature.

ENERGY SAVING CONTROL OPTION - DIM - 0-10 volt dimming enabled with controls by others. Available with High Output (HO) drive current only.

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

LEDS - Select high-brightness LEDs in Cool White (5000K), or Neutral White (4000K) color temperature, 70 CRI.

DISTRIBUTION/PERFORMANCE - Types 3, FT, FT-L, FT-R and 5. FT-L and FT-R allow for D180 mounting configurations with factory set optics for applications such as automotive front row. Exceptional uniformity creates bright environment at lower light levels. Internal Louver (IL) option available for improved backlight control without sacrificing street side performance for FT distribution. Consult factory for internal louver for FT-L and FT-R applications.

HOUSING - One-piece, die-formed aluminum housing contains factory prewired driver. Wiring access door (with safety lanyard) located underneath.

OPTICAL UNIT - Clear tempered flat glass lens permanently sealed to weather-tight aluminum optic frame creates an IP65 rated optical unit (includes pressure-stabilizing breather).

MOUNTING - Tapered rear design allows fixtures to be mounted in 90° and 120° configurations without the need for extension arms. Use with 3" reduced drilling pattern. A round pole plate is required for mounting to round poles. Wall mount available by ordering wall mounting bracket (BKS-XBO-WM-*-CLR). Proprietary pole quick mount accessories available with horizontal mounting or fixed 15° angled mounting (POMH-KIT-CLR and POM15-KIT-CLR) for mounting to square poles. See Accessory Ordering Information chart for all brackets.

ELECTRICAL - Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Location Category C. Available with universal voltage power supply 120-277 VAC (50/60Hz input), and 347-480 VAC. Optional button-type photocells (PCI) are available in 120, 208, 240, 277 or 347 volt (supply voltage must be specified).

DRIVER - Available in SS (Super Saver) and HO (High Output) drive currents. Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F)

FINISH - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process.

The DuraGrip finish withstands extreme weather changes without cracking or peeling.

Available in black, bronze and white. Other standard LSI finishes available. Consult factory.

WARRANTY - LSI LED fixtures carry a limited 5-year warranty.

PHOTOMETRICS - Please visit our web site at <u>www.lsi-industries.com</u> for detailed photometric data.

SHIPPING WEIGHT (in carton) - One fixture: 25.25 lbs. (11.5 kg). Packed two per carton: 43.5 lbs. (19.7 kg).

LISTING - UL listed to U.S. and international safety standards. Suitable for wet locations.

For a list of the specific products in this series that are DLC listed, please consult the LED Lighting section of our website or the Design Lights website at www.designlights.org.

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



Fidures comply with ANSI 0136 31-2010 American Hational Standard for Roadway Lighting Equipment - Luminaire Vibration 1 50 requirements.



Project Hame

_ Fixture Type _

06/08/15 © 2015

Catalog #

776010 1770

© 2015 LSI INDUSTRIES INC.

Swain Project - Strip Shopping Ctyr

Catalog Number: XLCM FT LED SS CW UE BRZ

Notes:

Type:

23,000 LUMEN

MISSISSIPPI16-53008

LED AREA LIGHTS - LSI SLICE MEDIUM (XLCM)

CAOSSOVOT

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: CW PCI120 **XLCM** LED SS UE BLK

Prefix Distributi	on Light Source	Drive Current	Color Temperature	Input Voltage	Finish	Options
XLCM 3 - Type III 5 - Type V FT - Forward Throw FT-L - Forward Opti Mount (Left Sde) FT-R - Forward Opti Mount (Right Sid	Rotated for D180 c Rotated for D180	SS - Super Sover HO - High Output	CW - Cool White (S000K) NW - Nautral White (4000K)	UE - Universal Voltaga (120-277V) 347-480 Universal Voltaga (347-480V)	BLK - Black BRZ + Bronze WHI - White	DIM - 0-10V Dimming (from external signal) available with High Output (HO) drive current only Button Type Photoca's PC1120 - 120V PC1208-277V - 208-277V PC1347 - 347V IL - Internal Louver (available with FT distribution only)

🚚 Sing	18 0.5
■- 回 D18	0° 1.0
V 09	0° 0.8
р, и т9	0° 1.7
TH12	0° 1.7
min Q9	0° 1.9

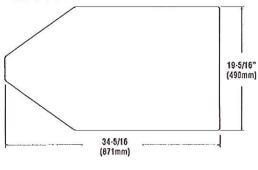
10 T (01	fian.	1.9
Note: Hot	ise Side Shiel	d adds to fixture
EPA Cons	u't Factory.	

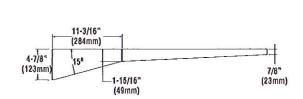
ACCESSORY ORDERING INFORMATION	(Accessories are	field installed)	
Description	Order Number	Description	Order Number
8KS-XBO-WM-*-CUR Wall Mount Bracket	382132CLR	FK120 Single Fusing (120V)	FK120 ²
XLCM-3/FT-HSS RM External House Side Shield		FK277 Single Fusing (277V)	FK277 ²
(Black only - rear mounted)	603159BLK1	DFK208, 240 Double Fusing (208V, 240V)	DFX208, 240
XLCM-FT-LAFT-R-HSS SM External House Side Shield		DFK480 Double Fusing (480V)	DFK480 ²
(Black only - side mounted)	603161BLK ¹	FK347 Single Fusing (347V)	FX3472
X4RPP Round Pole Plate for 4" Poles	379967CLR	POMH-KIT-CLR Square Pole Quick Mount Horizontal Bracket	592328CLR
X5RPP Round Pole Plate for 5" Poles	379968CLR	POMIS-KIT-CLR Square Pole Quick Mount Bracket willbred 15" A	ingle 582329CLR

FOOTNOTES:

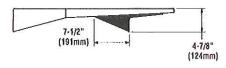
- 1 House Side Shields add to fixture EPA. Consult factory.
- 2 Fusing must be located in the hand hole of pole.

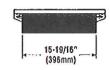
DIMENSIONS

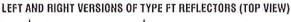


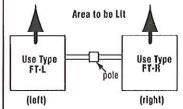


HOUSE SIDE SHEILD (rear mount)









Note: Optics are not field-rotatable. For D180 Forward Throw Installations specify left (FT-L) and/or right (FT-R) side mounting. Orientation is based on standing at the pole and looking out at the area to be lit.

Industries"

Project Name

__ Fixture Type _

08/03/15

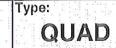
Catalog #.

© 2015 LSI INDUSTRIES INC.

Swain Project - Strip Shopping Ctyr

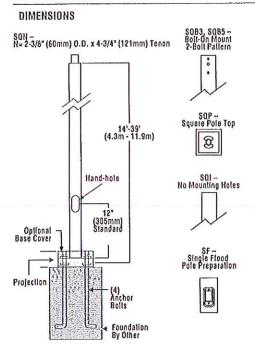
Catalog Number: 4SQB3 S07G 24 Q90 BRZ 4BC

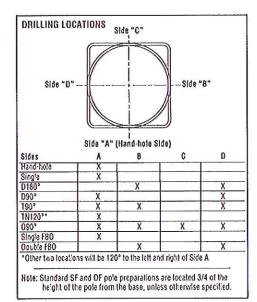
Notes:



MISSISSIPPH5-53008

STEEL SQUARE POLES





SHIPPING WEIGHTS - Steel Square Poles	
4'(102mm) sq. 11 Ga. is approximately	7.50 ts /ft.
4'(102mm) sq. 07 Ga. is approximately	10.00 lbs /tt
5'(127mm) sq. 11 Ga. is approximately	9.00 bs/ft
5'(127mm) sq. 07 Ga. is approximately	12.50 bs./tt
6'(152mm) sq. 07 Ga. is approximately	15.40 ts./t
Anchor Bo'ts (3'4" x 30")(19mm x 762mm)	15 lbs. (7kg)'sel
Arichor Bo'ts (1" x 36")(25mm x 914mm)	30 its. (14kg)'sel

ARRA Funding Compliant



POLE SHAFT - Pole shaft is electro-welded ASTM-A500 Grade C steel tubing with a minimum yield strength of 50,000 psi. On Tenon Mount steel poles, tenon is 2-3/8" O.D. high-strength pipe. Tenon is 4-3/4" in length, Straight poles are 4", 5", and 6" square.

HAND-HOLE - Standard hand-hole location is 12" above pole base. Poles 22' and above have a 3" x 6" reinforced hand-hole. Shorter poles have a 2" x 4" non-reinforced hand-hole.

BASE - Pole base is ASTM-A36 hot-rolled steel plate with a minimum yield strength of 36,000 psi. Two-piece square base cover is optional.

ANCHOR BOLTS - Poles are furnished with anchor bolls featuring zinc-plated double nuts and washers. Galvanized anchor bolls are optional. Anchor bolts conform to ASTM F 1554-07a Grade 55 with a minimum yield strength of 55,000 psi.

GROUND LUG - Ground lug is standard.

DUPLEX RECEPTACLE - Weatherproof duplex receptacle is optional.

GROUND FAULT CIRCUIT INTERRUPTER - Ground fault circuit interrupter is optional.

FINISHES - Each pole is finished with DuraGrip[©], LSI's baked-on polyester-powder finishing process which electrostatically applies and fuses a polyester powder to the pole. Provides an extremely smooth and uniform finish to withstand extreme weather changes without cracking or peeling, and features a five-year limited warranty. Optional DuraGrip[©] Plus features the added protection of a 3.0 to 5.0 mil thickness of polyester-powder finish plus an inner coating, as well as a seven-year limited warranty.

DETERMINING THE LUMINAIRE/POLE COMBINATION FOR YOUR APPLICATION:

- · Select luminaire from luminaire ordering information
- Select bracket configuration if required
- Determine EPA value from luminaire/bracket EPA chart
- Select pole height
- · Select MPH to match wind speed in the application area (See windspeed map).
- Confirm pole EPA equal to or exceeding value from note above
- · Consult factory for special wind load requirements and banner brackets

Helght	70 MPH	EP. 180 MPH	A PH	100 MPH	Outside Dimensions	Material	Bolt
14' (4.3m)	23.3	16.7	12.2	9.0	4' (102mm)	S11G	В
16' (4.9m)	18.6	13.1	9.3	6.5	4' (102mm)	\$110	В
16' (4.9m)	34.6	25.0	18.5	13.8	5' (127mm)	S11G	Č
18' (5.5m)	14.4	9.7	6.5	4.2	4' (102mm)	S110	8
18' (5.5m)	27.9	19.7	14.1	10.1	5' (127mm)	S11G	C
20' (6.1m)	11.0	7.0	4.2	2.2	4' (102mm)	S110	8
20' (6.1m)	18.7	12.8	8.8	5.9	4' (102mm)	S07G	В
20' (6.1m)	22.5	15.4	10.5	7.0	5' (127mm)	S11G	C
20' (6.1m)	35.5	25.4	18.4	13.4	5' (127mm)	S07G	Ď
22' (6.7m)	10.4	6.3	3.4	1.4	4' (102mm)	S11G	В
22' (6.7m)	18.7	12.6	8.4	5.4	4' (102mm)	S07G	В
22' (6.7m)	20.8	13.8	8.9	5.5	5' (127mm)	S11G	C
22' (6.7m)	34.0	23.9	17.0	12.0	5" (127mm)	S07G	Ď
24' (7.3m)	7.7	4.0	1.5	12.0	4' (102mm)	\$116	B
24' (7.3m)	15.1	9.7	6.0	3.3	4'(102mm)	S07G	8
24' (7.3m)	16.7	10.5	6.2	3.1	5' (127mm)	S11G	G
24' (7.3m)	28.6	19.6	13.4	8.9	5' (127mm)	S07G	ŏ
24' (7.3m)	46.2	32.6	23.2	16.6	6' (153mm)	S07G	-
26' (7.9m)	5.3	2.1	23.2	10.0	4' (102mm)	\$11G	8
26' (7.9m)	12.0	7.2	3.9	1.5	4' (102mm)	\$07G	В
26' (7.9m)	13.2	7.6	3.8	1.0	5' (127mm)	S11G	Č
26' (7.9m)	24.0	15.8	10.3	6.3	5' (127mm)	\$07G	Ď
26' (7.9m)	39.6	27.3	18.9	12,9	6' (152mm)	S07G	J
28' (8.5m)	19.9	12.5	7.5	3.9	5° (127mm)	\$07G	Ď
28' (8.5m)	33.9	22.7	15.1	9.6	6' (152mm)	S07G	J
30' (9.1m)	16.3	9.6	5.0	1.7	5' (127mm)	S07G	0
30' (9.1m)	28.8	18.6	11.6	6.6	6' (152mm)	\$07G	J
35' (10.7m)	18.3	10.0	4.3	V.V	6' (152mm)	S07G	J
39' (11.9m)	11.5	4.3	4.0	H-E-	6' (152mm)	S07G	J

PEPA based on ANSI/ASCE 7-93. Refer to EPA information on next page. For applications in Canada and areas using code requirements other than ANSI/ASCE 7-93, consult factory. If furninaire weight exceeds 250 lbs. (113.4 kg), consult factory.

	65			
		-0		
	100	d		
	10			
	Total Control	4		
	100000	Ind	ustrie	•
60	100			

	02/05/14
Project Name	 © 2014
Catalog #	LSI INDUSTRIES INC.

Swain Project - Strip Shopping Ctyr

Catalog Number: 4SQB3 S07G 24 Q90 BRZ 4BC

Notes:

Type:

QUAD

MISSISSIPPI16-53008

STEEL SQUARE POLES

POLE ORDERING INFORMATION

24 PLP SF DGP TYPICAL ORDER EXAMPLE: 5SQB5 **S07G** S

Pole Series	Material	Helgh1?	Mounting Configuration	Pole Finish	Options
Bolt-on Arm Mount - See pole selection guide - for pellerne and foature matches. 48QB3 - 3" Reduced drilling pattern 58QB5 - 5" Traditional drilling pattern 68QB5 - 5" Traditional drilling pattern 68QB5 - 5" Traditional drilling pattern	\$11G - 11 Ga Steel \$07G - 07 Ga. Steel	14' 16' 18' 20' 22' 24' 26' 28' 30'	S – Single/Parallel D180 ³ – Double D90 ³ – Double DN90 ² – Double 190 ³ – Triple 111120 ³ – Triple 1090 ³ – Ouad ON90 ³ – Ouad	BRZ – Bronze BRK – BJBCK PLP – Platinum Plus WHT – White SVG – Satin Verde Green GPT – Graphite MSV – Metalife Silver	GA – Galvanized Anchor Bolt SF – Single Flood ³ DF – Double Flood ³ DGP – DuraGrip ⁹ Pius LAB – Less Anchor Bolts OSXX - Pole preparation for PMOS Occupancy Sensor ⁴
Pole Top Mount - Use with: • Greenbriar Pole Top • Hilton Pole Top 450P 450P 650P	Consult Pole Sele Charl on opposite	35' 39'	PT Pole Top Mount		ole preparations are located e pole from the base, unless
Tenon Mount - See pola selection guide for tenon and lixture/bracket matches. 480H 580N 680N			N Tenon Mount (Standard tenon size is 2-3/8° O.D.)		
No Mounting Holes or Pole Caps - Use with: • BKA 4ISF & BKA 5ISF • BKA X4ISF & BKA X5ISF Internal Slip-filter ¹ 4SQI 5SQI					

· · · · · · · · · · · · · · · · · · ·			
ACCESSORY ORDERING INFORMATION	(Accessories are field Instal	led)	
Description	Order Number		Order Number
4BC - 4' Square Base Cover	122559CLR	Vibration Damper - 4° Square Pole (bolt-on mount only)	172539
28C - 2, 2d 73L6 8326 COVSL	122561CLR	Vibration Damper - 5' Square Pole (bolt-on mount only)	172538
6BC - 6' Square 8ase Cover	122563CLR	Vibration Damper - 6' Square Pole (bolt-on mount only)	178361
ER2 - Weatherproof Duplex Receptacle	122566CLR	PMOS120 - 120V Occupancy Sensor	51E030CLR5
GFI - Ground Fault Circuit Interrupter	122567CLR	PMOS203/240 - 203, 240V Occupancy Sensor	CAF5
MHP - Mounting Hole Plugs (3 plugs)-for use with 5" traditi	oral drit pattern 132336	PMOS277 - 277V Occupancy Sensor	518029CLR5
MHD - Mounting Hole Weatherproof Decal-for use with	340120		
3" reduced drift pattern			

FOOTHOTES:

BOLT CIRCLE

- 3 See Flood Lighting Brackets section for choice of FBO brackets.
- 1 See Area Lighting Brackets Bolt-on and XASQXAM3 Area Lighting Brackets pages for Internal Slip-Fitter brackets.
 2 Pole heights will have #4 1/2" tolerance.
 3 Cas Dead Lighting Brackets Bolt-on and XASQXAM3 Area Lighting Brackets pages for Internal Slip-Fitter brackets.
 4 Order PMOS separately. Change "XX" to indicate height and side of pole location for pole preparation. EX: OSBA indicates preparation is to be 8ft. up from pole base on side A. Optimal distance from ground to sensor is 10ft.
 - 5 OSXX option required. Not for use with Metal Halide fixtures **EPA INFORMATION**

5" (127mm) square 64 (152mm) square 4° (102mm) square 5" (127mm) souare All LSI Industries' poles are guaranteed to meet the EPA requirements listed. LSI Industries is not responsible if a pole 10-1/8° (257mm) sq. 10-1/8" (257mm) sq. 10-1/8° (257mm) sq. 12° (305mm) sq. order has a lower EPA rating than the Indicated wind-loading zone where the pole will be located. 1 CAUTION: This guarantee does not apply if the pole-bracket/Tixture combination is used to support any other items such as flags, permants, or signs, which would add stress to the pole. LSI industries cannot accept responsibility for harm 11' (279 mm) bia, Bolt Circle 11'(279mm) Dia. Bolt Cicle 11'(279mm) Dia. Bolt Chela 12" (305 mm) Dia, Bell Circle or damage caused in these situations. NOTE: Pole calculations include a 1.3 gust factor over steady Slotted 8"-11" (203mm-279.mm) Skitted 9"-11" (229 nm-279 nm) Slotted 9"-11" (229mm-279mm) Slotted 12" (305:mm) wind velocity. Example: poles designed to withstand 60 MPH steady wind will withstand gusts to 104 MPH. EPAs are for locations 100 miles away from hurricane ocean lines. Consult LSI Anchor Bolt 3/4" x 30" (19.mm x 762mm) 3/4'x 30 1' x 36' (25mm x 914mm) 1' x 36' (25mm x 914mm) (19mm x 762mm) for other areas. Note: Hurricane ocean lines are the Atlantic and Anchor Bolt Projection Gulf of Mexico coastal areas. For applications in Florida or Canada, consult factory. 3-1/4' (83mm) 3-1/4° (83mm) 4° (102mm) (102mm) Base Plate Opening for Wireway Entry 3-5/8' (92mm) 4-3/4" (121mm) 4-5/8' (117mm) 5-5/8" (143mm) Base Plate Dimensions 10-1/8' sq. x 3/4' thk (257mm x 19mm) 10-1/8' sq. x 3/4' thk (257mm x 19mm) 10-1/8' sq. x 1' thk (257mm x 25mm) 12'sq. x 1-1/8'thk. (305mm x 29mm) Note: Base plate Mustrations may change without notice. Do not use for setting anchor bolts. Consult factory for the base plate templates.



Project Hame J Fixture Type Catalog #

@2014 LSI INDUSTRIES INC.

02/05/14

Swain Project - Strip Shopping Ctyr

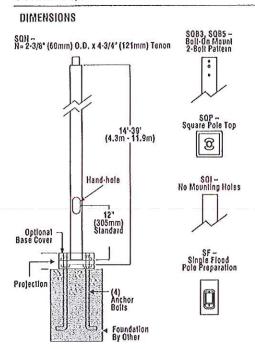
Catalog Number: 4SQB3 S07G 24 T90 BRZ 4BC

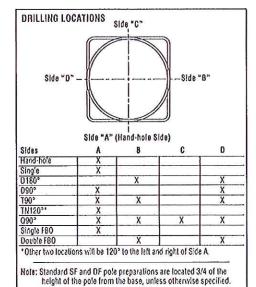
Notes:



MISSISSIPPI15-53008

STEEL SQUARE POLES





SHIPPING WEIGHTS - Steel Square Poles	
4'(((2mm) sq. 11 Ga. is approximately	7.50 lbs /fL
4'(((2mm) sq. 07 Ga. is approximately	10.00 lbs/ft.
5'(127mm) sq. 11 Ga. is approximately	9.00 fbs /ft.
5'(127mm) sq 07 Ga is approximately	12.50 6s /ft
6'(152mm) sq. 07 Ga. Is approximately	15.40 bs./tt.
Anchor Bo'ts (3'4" x 30")(19mm x 762mm)	15 lbs. (7\g)/set
Anchor Bolts (1" x 35")(25mm x 914mm)	30 lbs. (14kg)/set

ARRA Funding Compliant



POLE SHAFT - Pole shaft is electro-welded ASTM-A500 Grade C steel tubing with a minimum yield strength of 50,000 psi. On Tenon Mount steel poles, tenon is 2-3/8" O.D. high-strength pipe. Tenon is 4-3/4" in length. Straight poles are 4", 5", and 6" square.

HAND-HOLE - Standard hand-hole location is 12" above pole base. Poles 22' and above have a 3" x 6" reinforced hand-hole. Shorter poles have a 2" x 4" non-reinforced hand-hole.

BASE - Pole base is ASTM-A36 hot-rolled steel plate with a minimum yield strength of 36,000 psi. Two-piece square base cover is optional.

ANCHOR BOLTS - Poles are furnished with anchor bolls featuring zinc-plated double nuts and washers. Galvanized anchor bolls are optional. Anchor bolls conform to ASTM F 1554-07a Grade 55 with a minimum yield strength of 55,000 psl.

GROUND LUG - Ground lug is standard.

DUPLEX RECEPTACLE - Weatherproof duplex receptacle is optional.

GROUND FAULT CIRCUIT INTERRUPTER - Ground fault circuit interrupter is optional.

FINISHES - Each pole is finished with DuraGrip®, LSI's baked on polyester-powder finishing process which electrostatically applies and fuses a polyester powder to the pole. Provides an extremely smooth and uniform finish to withstand extreme weather changes without cracking or peeling, and features a five-year limited warranty. Optional DuraGrip® Plus features the added protection of a 3.0 to 5.0 mil thickness of polyester-powder finish plus an inner coating, as well as a seven-year limited warranty.

DETERMINING THE LUMINAIRE/POLE COMBINATION FOR YOUR APPLICATION:

- Select luminaire from luminaire ordering information
- Select bracket configuration if required
- Determine EPA value from luminaire/bracket EPA chart
- · Select pole height
- · Select MPH to match wind speed in the application area (See windspeed map).
- Confirm pole EPA equal to or exceeding value from note above
- Consult factory for special wind load requirements and banner brackets

Helght	70 MPH	EP. 80 MPH	90 MPH	100 MPH	Outside Dimensions	Material	Boll Circle
14' (4.3m)	23.3	16.7	12.2	9.0	4' (102mm)	S11G	В
16' (4.9m)	18.6	13.1	9.3	6.5	4' (102mm)	S11G	В
16' (4.9m)	34.6	25.0	18.5	13.8	5' (127mm)	S11G	Ċ
18' (5.5m)	14.4	9.7	6.5	4.2	4' (102mm)	S11G	В
18' (5.5m)	27.9	19.7	14.1	10.1	5' (127mm)	S11G	C
20' (6.1m)	11.0	7.0	4.2	2.2	4' (102mm)	S11G	8
20' (6.1m)	18.7	12.8	8.8	5.9	4' (102mm)	S07G_	-8
20' (6.1m)	22.5	15.4	10.5	7.0	5' (127mm)	\$110	C
20' (6.1m)	35.5	25.4	18.4	13.4	5" (127mm)	S07G	D
22' (6.7m)	10.4	6.3	3.4	1.4	4' (102mm)	S11G	В
22' (6.7m)	18.7	12.6	8.4	5.4	4' (102mm)	S07G	В
22' (6.7m)	20.8	13.8	8.9	5.5	5' (127mm)	\$116	C
22' (6.7m)	34.0	23.9	17.0	12.0	5' (127mm)	S07G	D
24' (7.3m)	7.7	4.0	1.5	-	4' (102mm)	S11G	В
24' (7.3m)	15.1	9.7	6.0	3.3	4' (102mm)	S07G	В
24' (7.3m)	16.7	10.5	6,2	3,1	5' (127mm)	S11G	C
24' (7.3m)	28.6	19.6	13.4	8.9	5' (127mm)	S07G	D
24' (7.3m)	46.2	32.6	23.2	16.6	6' (153mm)	S07G	J
26' (7.9m)	5.3	2.1		_	4' (102mm)	\$116	. 8
26' (7.9m)	12.0	7.2	3.9	1.5	4° (102mm)	S07G	8
26' (7.9m)	13.2	7.6	3.8	1.0	5* (127mm)	S11G	C
26' (7.9m)	24.0	15.8	10.3	6.3	5° (127mm)	S07G	0_
26' (7.9m)	39.6	27.3	18.9	12.9	6' (152mm)	S07G	J
28' (8.5m)	19.9	12.5	7.5	3.9	5" (127mm)	\$07G	D
28' (8.5m)	33.9	22.7	15.1	9.6	6' (152mm)	S07G	J
30' (9.1m)	16.3	9.6	5.0	1.7	5' (127mm)	\$07G	D
30' (9.1m)	28.8	18.6	11,6	6.6	6' (152mm)	S07G	J
35' (10.7m)	18.3	10.0	4.3		6' (152mm)	S07G	J
39' (11.9m)	11.5	4.3	-		6' (152mm)	5076	J

FA based on ANSI/ASCE 7-93. Refer to EPA Information on next page. For applications in Canada and areas using code requirements other than ANSI/ASCE 7-93, consult factory. If luminates weight exceeds 250 lbs. (113.4 kg), consult factory.

1000	
1 -	49
	- 11
/ %	
	*
	Industries
Region .	litribatiles
Law on	keepolise Person le trodices

		02/05/14
roject Name	Fixture Type	© 2014
atalon #	Ĭ [*]	LSI INDUSTRIES INC.

Swain Project - Strip Shopping Ctyr

Catalog Number: 4SQB3 S07G 24 T90 BRZ 4BC

Notes:

Type:

TRIPLE

MISSISSIPPI15-53008

STEEL SQUARE POLES

POLE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: 5SQB5 **S07G** 24 S PLP SF DGP

Pole Seiles	Material	Height ²	Mounting Configuration	Pole Finish	Options
Bolt-on Arm Mount - See pole selection guide for petterns end histure matches. 4SQB3 - 3" Reduced drilling pattern 5SQB3 - 3" Reduced drilling pattern 4SQB5 - 5" Traditional drilling pattern 6SQB5 - 5" Traditional drilling pattern 6SQB5 - 5" Traditional drilling pattern	S11G - 11 G3 Steel S07G - 07 G3. Steel	14' 16' 18' 20' 22' 24' 26' 28' 30'	S - Single/Parallel 0180° - Double 090° - Double 0,0190° - Double 0,0190° - Triple 11120 - Triple 090° - Quad 0N90° - Quad	BRZ - Bronze BLK - Brzck PLP - Platinum Pius WHT - White SVG - Satin Verde Green GPT - Graphite MSV - Metallic Silver	GA – Gaivanized Anchor Botis SF – Single Flood ³ DF – Double Flood ³ DGP – DuraGrip® Pivs LAB – Less Anchor Botis OSXX - Pola preparation for PMOS Occupancy Sensor ⁴
Pole Top Mount - Use with: Greenbriar Pole Top Hilton Pole Top 480P 580P 680P	Consult Pole Sele Chart on opposite	35' 39'	PT Pola Top Mount		ole preparations are located e pole from the base, unless
Tenon Mount - See pola selection guide for tenon and fixture/bracket matches. 48 QN 58 QN 68 QN			N – Tenon Mount (Standard tenon size is 2-3/8' O.D.)		46
No Mounting Holes or Pole Caps - Use with: BKA 4ISF & BKA 5ISF BKA X4ISF & BKA X5ISF Internal Sitp-filter ¹ 4SQI 5SQI					

ACCESSORY ORDERING INFORMATION	(Accessories are field Instal	led)	
Description	Order Number		Order Number
4BC - 4' Square Base Corer	122559CLR	Vibration Damper - 4' Square Pole (boit-on mount only)	172539
SBC-5 SQUITE BASE COTET	122561CLR	Vibration Damper - 5' Square Pole (bolt-on mount only)	172538
6BC - 6' Square Base Cover	122563CLR	Vibration Damper - 6' Square Pole (boit-on mount only)	178361
ER2 - Weatherproof Duplex Receptacla	122566CLR	PMOS120 - 120V Occupancy Sensor	518030CLR5
GFI - Ground Fault Circuit Interrupter	122567CLR	PMOS208/240 - 208, 240V Occupancy Sensor	C/F5
MHP - Mounting Hole Plugs (3 plugs)-for use with 5' tred:	foreidrit petern 132336	PMOS277 - 277V Occupancy Sensor	518029CLR ⁵
MHD Mounting Hole Weatherproof Decal-for use with	340120		
3" reduced doll rottern			

5° (127mm) square

10-1/8" (257mm) sq.

6° (152mm) square

12° (305mm) sq.

FOOTHOTES:

BOLT CIRCLE

5° (127mm) square 10-1/8° (257mm) sq.

- 2 Pole heights will have +/- 1/2' tolerance.
- 3 See Flood Lighting Brackets section for choice of FBO brackets.

4º (102mm) square

10-1/8" (257mm) sq.

Calalog #

- 1 See Area Lighting Brackets Boll-on and XAS3XXAM3 Area Lighting Brackets pages for Internal Slip-filter brackets.
 2 Pole heights will have 4/- 1/2' tolerance.
 4 Order PMOS separately. Change "XX" to Indicate height and side of pole location for pole preparation. EX: OSSA indicates preparation is to be 8ft. up from pole base on side A. Optimal distance from ground to sensor is 10ft.
 - 5 OSXX option required. Not for use with Metal Halide futures

-1-·į. ... 11" (2197m) Dia. Ball Circle 11' (279mm) Dia, Boli Circle 11' (279mm) Dia, Boli Circle 12" (305 mm) Dia, Bolt Circle C Siotted 8'-11' (203mm-279mm) Slotted 9"-11" (229mm-279mm) Slotted 9*-11" (229mm-279.mm) S'otted 12' (305mm) 3/4' x 30' (19mm x 762mm) 3/4" x 30" (19mm x 762mm) 1' x 36' (25mm x 914mm) 1' x 36' (25mm x 914mm) Anchor Boit Projection 3-1/4' (83mm) 3-1/4' (83mm) 4' (102mm) 4' (102mm) Base Plate Opening for Wireway Entry 3-5/8° (92mm) 4-3/4' (121mm) 4.5/8' (117mm) 5-5/8° (143mm) Base Plate Dimensions 10-1/8' sq. x 3/4' thk. (257mm x 19mm) · 10-1/8' sq. x 3/4' thk. (257mm x 19mm) 10-1/8' sq. x 1' thk. (257mm x 25mm) 12' sq. x 1-1/8' thk (305mm x 29mm) Mote: Base plate Mustrations may change without notice. Do not use for setting anchor bolts. Consult factory for the base plate templates,

EPA INFORMATION

All LSI Industries' poles are guaranteed to meet the EPA requirements listed. LSI Industries is not responsible if a pole order has a lower EPA rating than the indicated wind-loading zone where the pole will be located.

CAUTION: This guarantee does not apply if the pole-bracket/Toture combination is used to support any other items such as flags, permants, or signs, which would add stress to the pole. LSI Industries cannot accept responsibility for harm or damage caused in these situations.

NOTE: Pola calculations include a 1.3 gust factor over steady wind velocity. Example: poles designed to withstand 80 MPH steady wind with withstand gusts to 104 MPH. EPAs are for locations 100 miles away from hurricane ocean lines. Consult LSI for other areas. Note: Hurricana ocean lines are the Allantic and Gulf of Mexico coastal areas. For applications in Florida or Canada, consult factory.

0.7	
1 -10	
181	
1.381	
Industries"	
American Innovation Through Technology	

	7.1.2.2	
Project Name	Fixture Type	1
ñ.		1,000

Swain Project - Strip Shopping Ctyr

Catalog Number: XLCM FT LED HO CW UE BRZ

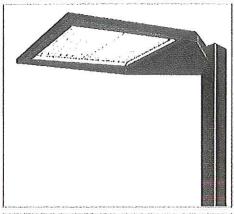
Notes:

Type: 31,000 LUMEN

MISSISSIPPI15-53008

LED AREA LIGHTS - LSI SLICE MEDIUM (XLCM)





DOE LIGHTING PACTS

Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit www.lightingfacts.com for specific catalog strings.

54.			Lumens (Nom		Walls
	,	Туре 3	Type FT	Луре 5	(Nominal)
Sol White	\$\$	19800	22800	22900	193
35	HO.	27100	30900	31100	278
E Z	SS	19000	18400	18500	193
Neutral White	HO	26300	24100	23900	278

LEO Chips are frequently updated therefore values may increase.

US & Inl'I. patents pending

SMARTTECTM - LSI drivers feature integral sensor which reduces drive current, when ambient temperatures exceed rated temperature.

ENERGY SAVING CONTROL OPTION - DIM - 0-10 volt dimming enabled with controls by others. Available with High Output (HO) drive current only.

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

LEDS - Select high-brightness LEDs in Cool White (5000K), or Neutral White (4000K) color temperature, 70 CRI.

DISTRIBUTION/PERFORMANCE - Types 3, FT, FT-L, FT-R and 5. FT-L and FT-R allow for D180 mounting configurations with factory set optics for applications such as automotive front row. Exceptional uniformity creates bright environment at lower light levels. Internal Louver (IL) option available for improved backlight control without sacrificing street side performance for FT distribution. Consult factory for internal louver for FT-L and FT-R applications.

HOUSING - One-piece, die-formed aluminum housing contains factory prewired driver. Wiring access door (with safety lanyard) located underneath.

OPTICAL UNIT - Clear tempered flat glass lens permanently sealed to weather-tight aluminum optic frame creates an IP65 rated optical unit (includes pressure-stabilizing breather).

MOUNTING - Tapered rear design allows fixtures to be mounted in 90° and 120° configurations without the need for extension arms. Use with 3" reduced drilling pattern. A round pole plate is required for mounting to round poles. Wall mount available by ordering wall mounting bracket (BKS-XBO-WM-*-CLR). Proprietary pole quick mount accessories available with horizontal mounting or fixed 15° angled mounting (POMH-KIT-CLR and POM15-KIT-CLR) for mounting to square poles. See Accessory Ordering Information chart for all brackets.

ELECTRICAL - Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Location Category C. Available with universal voltage power supply 120-277 VAC (50/60Hz input), and 347-480 VAC. Optional button-type photocells (PCI) are available in 120, 208, 240, 277 or 347 volt (supply voltage must be specified).

DRIVER - Available in SS (Super Saver) and HO (High Oulput) drive currents. Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F)

FINISH - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process.

The DuraGrip finish withstands extreme weather changes without cracking or peeling.

Available in black, bronze and white. Other standard LSI finishes available, Consult factory.

WARRANTY - LSI LED fixtures carry a limited 5-year warranty.

PHOTOMETRICS - Please visit our web site at <u>www.lsi-industries.com</u> for detailed photometric data.

SHIPPING WEIGHT (in carton) - One fixture: 25.25 lbs. (11.5 kg). Packed two per carton: 43.5 lbs. (19.7 kg).

LISTING - UL listed to U.S. and international safety standards. Suitable for wet locations. For a list of the specific products in this series that are DLC listed, please consult the LED Lighting section of our website or the Design Lights website at www.designlights.org.

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



Ricures comply with ANSI 0198 31-2010 American Historial Standard for Roadway Ughting Equipment - Luminaire Vibration 1-50 reprintments



ojeci Name		06/08/15
	T TAKUN TIPV	© 2015
lalon #	4	Let moneture me

Swain Project - Strip Shopping Ctyr

Catalog Number: XLCM FT LED HO CW UE BRZ

Notes:

Type:

31,000 LUMEN

MISSISSIPPI15-53008

LED AREA LIGHTS - LSI SLICE MEDIUM (XLCM)

CROSSOVOR'

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: XLCM 5 LED SS CW UE BLK PC1120

Prelix	Distribution	Light Source	Driva Current	Color Temperature	Input Voltage	Finish	Options
F1 F1	- Type III - Type V - Forward Throw -L - Forward Optic Rotated for D180 Mount (Left Side) -R - Forward Optic Rotated for D180 Mount - (Right Side)	LED	SS - Super Saver HO -High Output	CVY - Cool White (5909X) TNY - Heutral White (4000X)	UE - Universal Voltage (120-277V) 347-480 Universal Voltage (347-480V)	BLK - Black BRZ - Bronze WHT - White	DIM - 0-10V Dimming (from external signal) available with High Output (HO) drive current only Button Type Photocells PCH20 - 120V PCH20 - 120V PCH347 - 347V IL - Internal Louver (available with FT distribution only)

Single	0.5
B □ D180°	1.0
D80.	0.8
190°	1.7
TH120°	1.7
=¥= €90°	1.9

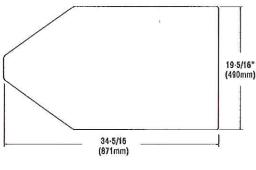
Hole: House Side Shield adds to fecture EPA. Consult Factory.

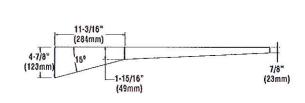
ACCESSORY ORDERING INFORMATION	(Accessories are	field installed)	
Description	Order Number	Description	Order Number
BKS-X60-WM-*-CLR Wall Mount Bracket	382132CLR	FX120 Single Fusing (120V)	FK120 ²
XLCM-3/FT-HSS RM External House Side Shield	200	FX277 Single Fusing (277V)	FK277 ²
(Black only - rear mounted)	603159BLK ¹	DFK208, 240 Double Fusing (208V, 240V)	DFK203, 240 ²
XLCAL-FT-UFT-R-HSS SM External House Side Shield		DFX480 Double Fusing (480V)	DFK480 ²
(Black only - side mounted)	6031618LK1	FX347 Sirgle Fusing (347V)	FK3472
X4RPP Round Pole Plate for 4' Poles	379367CLR	POMH-KIT-CLR Square Pole Quick Mount Horizontal Bracket	582328CLR
X5RPP Round Pole Plate for 5' Poles	379968CLR	POM15-KIT-CLR Square Pole Quick Mount Bracket wiffixed 15" A	ingle 582329CLR

FOOTNOTES:

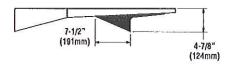
- 1 House Side Shields add to fixture EPA. Consult factory.
- 2 Fusing must be located in the hand hole of pole.

DIMENSIONS

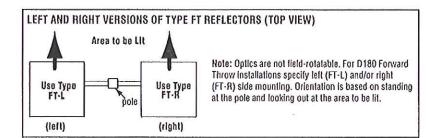




HOUSE SIDE SHEILD (rear mount)







1	20
15	
A STATE OF THE PARTY OF THE PAR	"Industries"
	muusmes

Project Name

_ Fixture Type

06/08/15 © 2015

Calalog #_____

© 2015 LSI INDUSTRIES INC.

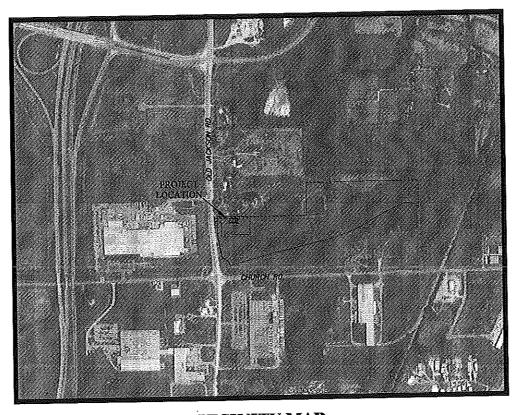




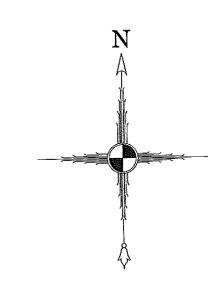
CONSTRUCTION PLANS FOR:

DEH TRUCKING MAINTENANCE FACILITY

JOCATION: 320 OLD JACKSON ROAD CANTON, MS 39046 OCTOBER, 2015



VICINITY MAP



FOR REVIEW AND APPROVAL



Gregory A. Bonds, P.E. Mississippi License No. 16335 Date

Equipment, materia's and construction of a'l improvements required in these plans shall be in accordance with these construction drawings & project specifications.

The drawings and specifications represented herein are and shall remain the property of Benchmark Engineering & Surveying. LLC and no part thereof shall be copied, disclosed to others or used in connection with any other work or project other than the specific project for which they have been prepared. Visual contact with these drawings or specifications shall constitute evidence of acceptance of these restrictions.

OWNER:

DAVID HARKINS

DEH TRUCKING, INC.

P.O. BOX 1022

CLEVELAND, MS 38732



101 Highpointe Court, Suite B, Brandon, Mississippi 3904 Office: 801-591-1077 Fax: 801-591-0711 E-mail: gbonds@benchmarkms.net



PROJECT NUV B-494

GENERAL CONSTRUCTION NOTES:

- IT IS NOT THE INTENT OF THESE CONSTRUCTION NOTES TO COVER ALL DETAILS AND/OR THE SPECIFICATION

- IT IS NOT THE INTENT OF THESE CONSTRUCTION NOTES TO COVER ALL DETAILS AND/OR THE SPECIFICATION REQUIREMENTS FOR THE PROJECT.

 THE CONTRACTOR SHALL PROVIDE REASONABLE ACCESS TO RESIDENTIAL, COMMERCIAL AND PUBLIC PROPERTIES IN THE PROJECT AREA.

 THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURN SHING ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTAL ITEMS NEEDED TO PROVDE ADEQUATE CONSTRUCTION SKING, BARRCADES, TRAFFIC CONTROL DEVICES AND OTHER RELATED ITEMS FOR THE PROJECT AREA, DURNING THE CONSTRUCTION PERIOD. MAINTENANCE AND PROTECTION OF TRAFFIC MUST COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THIS WORK IS TO BE CONSIDERED AN INCIDENTAL ITEM AND THE COST OF THIS ITEM IS TO BE INCLUDED IN OTHER PAY ITEMS. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE BASED OFF OF INFORMATION PROVIDED BY THE UTILITY OWNER'S. PROR TO INSTALLATION OF ANY PORTION OF THE WATER, SEYER OR STORM DRAIN INFRASTRUCTURE SHOWN IN THESE PLANS THE CONTRACTOR IS TO VERIFY THE LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES & UTILITY UNFRASTRUCTURE IN THE PROJECT AREA PRIOR TO CONSTRUCTION. SHOULD THERE BE ANY CONFLICTS OR DISCREPENCIES THE CONTRACTOR STO NOTIFY CHECKED IN WAITING.

 THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION OF ALL PRIVATE AND PUBLIC UTILITIES EVEN INJOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAVAGED DURING CONSTRUCTION SHALL BE REPARED OR REPLACED TO THE SATISFACTION OF THE UTILITY OWNER BY THE CONTRACTOR. THIS INCLUDES ALL SERVICE LATERALS OF ANY KIND.

 THE CONTRACTOR SHALL BEAR FOR DISCRESSIBLE FOR COORDINATING HIS WORK WITH ALL LOCAL UTILITY COMPANIES.
- LOCAL DIDLITY COMPANES.
- THE CONTRACTOR SHALL VERIFY ALL SHOWN DIMENSIONS AND ELEVATIONS (EXISTING AND PROPOSED) IN THE FIELD AND SHALL SATISFY HAVSELF AS TO THE ACCURACY BETWEEN WORK SET FORTH ON THESE PLANS AND THE WORK REQUIRED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO
- THE CONTRACTOR IS REQUIRED BY LAW TO NOTIFY MISSISSIPPI ONE CALL @ 811 AT LEAST 48 HOURS PRIOR TO
- THE CONTRACTOR IS REQUIRED BY LAW TO NOTIFY MISSISSIPPI ONE CALL & STITE REQUIRED BY LAW TO NOTIFY MISSISSIPPI ONE CALL & STITE OF THE MISSISSIPPI ONE CALL & STITE ONE CALL & STITE OF THE MISSISSIPPI ONE CALL & STITE OF THE MISSISSIP

- 11. THE CONTRACTOR SHALL RESIDER ALL DISTORBED AREAS TO MAIOT PRE-CONSTRUCTION CONDITION OF BETTER
 AFTER COMPLETION OF THE PROJECT.

 12. THE CONTRACTOR IS TO PROVIDE THE ENGINEER A CERTIFICATION THAT THE PROJECT WAS COMPLETED ACCORDING TO
 THE PROJECT PLANS AND SPECTICATIONS.

 13. ROADS TO BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.

 14. THE CONTRACTOR SHALL CAREFULLY REMOVE, STORE AND REINSTALL ALL CITY/COUNTY/STATE OWNED SIGN WHOSE

 14. THE CONTRACTOR SHALL CAREFULLY REMOVE, STORE AND REINSTALL ALL CITY/COUNTY/STATE OWNED SIGN WHOSE
- THE CONTRACTOR SHALL CAREFULLT REMOVE, STORE AND REINSTALL ALC CITYCOUNTYSTATE OWNED SYNS WHOSE REMOVAL IS REQUIRED BY HIS CONSTRUCTION WORK IN THE PROJECT AREA. IT SHALL BE THE CONTRACTOR'S RESPONSIBLITY TO ARRANGE FOR THE APPROPRIATE AGENCY TO INSPECT ALL SGNS SCHEDULED FOR REMOVAL PRIOR TO THEIR REMOVAL, ONCE SAD SIGNS HAVE BEEN REMOVED, IT WILL BE ASSUMED THAT THEY WERE IN GOOD CONDITION AT THE TIME OF REMOVAL. ANY SGNS DAMAGED OR LOST BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE APPROPRIATE AGENCY.
- ELEVATIONS ARE BASED ON M.S.L. DATUM.
 THE CONTRACTOR S-IA:L PROCURE ALL REQUIRED PERMITS AND LICENSES; PAY ALL FEES, CHARGES AND TAXES INC. UDING SALES AND USE TAXES); GIVE ALL REQUIRED NOTICES; MAINTAIN AN ORDERLY AND SAFE FLOW OF TRAFFIC; MAINTAIN PROPER STORMWATER DRAINAGE; LOCATE AND AVOID DISRUPTING ALL EXISTING UTILITIES; IRANSPORT ALL EQUIPMENT AND MATERIALS AS REQUIRED BY ANY AGENCY HAYNG JURISDICTION OVER ANY ROAD USE THEREOF; TRANSPORT, HANDLE AND INSTALL ALL MATERIALS IN ACCORDANCE WITH THEIR RESPECTIVE USE THEREOF; TRANSPORT, HANDLE AND INSTALL ALL MATERIALS IN ACCORDANCE WITH THEIR RESPECTIVE MANUFACTURER'S RECOMMENDATIONS AND PROJECT SPECIFICATIONS; PROPERLY BACKFILL ALL TRENCHES AND EXCAVATIONS; MAINTAIN A CLEAN AND ORDERLY WORK SITE; PROMPTLY REMOVE ALL EQUEMENT, DEBRIS AND EXCESS SOLS AND/OR MATERIALS ON COMPLETION OF THE WORK; AND RESTORE TO SUBSTANTIALLY THE SAME OR BETTER CONDITIONS ALL DISTURBED PAVEMENTS AND GROUND SURFACES.

 20. NO ACTIVITY REQUIRED FOR THE ACCOMPLISHMENT OF THE WORK IS TO BE PERFORMED WHEN SOLL CONDUCT ITS OPERATIONS AND ACTIVITIES IN SUCH A MANNER AS TO MINIMIZE THE EROSON OF SOLS AND THE DEPOSTION OF SEDIMENTS INTO EXISTING DRAINAGE COURSES DOWNSTREAM OF PROJECT WORK SITE OR ONTO ADJACENT PROPERTIES.

 21. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY AND ALL EXISTING STRUCTURES NECESSARY FOR COMPLETION OF THE WORK DESCRIBED IN THESE PLANS UNLESS OTHERWSE NOTED.

 22. THESE CONSTRUCTION PLANS WERE PREPARED TO THE BEST OF MY KNOWLEDGE, TO COMPLY WITH THE REQUIREMENTS OF MADISON COUNTY DEVELOPMENT REQUIREMENTS

- OF MADISON COUNTY DEVELOPMENT REGULATIONS.

SITE GRADING AND PAVING NOTES:

- TECHNICAL SPECIFICATION FOR MATERIALS AND CONSTRUCTION METHODS FOR PAWING AND EARTHWORK THIS PROJECT SHALL CONFORM TO THE LATEST EDITION OF MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THESE PLANS AND SPECIFICATIONS AND THE GEOTECHNICAL REPORT IF AVAILABLE. SHOULD THERE BE ANY CONFLICTS BETWEEN THE NOTES STATED HEREIN OR THE PROJECT SPECIFICATIONS WITH THE GEOTECHNICAL REPORT SHALL GOVERN. EARTH EXCAVATION SHALL INCLUDE CLEARING, STRIPPING, AND THE STOCKPLING OF TOPSOIL, REMOVING UNSUITABLE MAILRIAS, THE CONSTRUCTION OF FMBANKMENTS, NON-STRUCTURAL FILLS, FINAL SHAPING AND TRIMMING TO THE LINES, GRADES AND CROSS SECTIONS SHOWN ON THE PLANS. ALL UNSUITABLE OR EXCESS MATERIAL SHALL BE DEPOSED OF AS DIRECTLY BY THE PROMETED.
- DISPOSED OF AS DIRECTED BY THE ENGINEER.
 AS AN INITIAL STEP OF SITE PREPARATION, TREES AND VEGETATION WITHIN THE CONSTRUCTION LIMITS SHOULD BE
- REMOVED. TREE AND VEGETATION REMOVAL (CLEARING AND GRUBB NG) WILL INCLUDE STUMPS AND ROOT SYSTEMS. HOLES CRI ALED BY TREE AND STUMP REMOVAL SHOULD BE BACKFILLED WITH COMPACTED SELECT FILL SOLS.

 4. AFTER CLEARING AND GRUBBING, STR.PP.ING (12" MIN MUM DEPTH) SHOULD BE PERFORMED TO A SUFFICIENT DEPTH WITHIN CONSTRUCTION AREAS TO REMOVE ORGANIC-LADEN SURFICIAL SOLS, VEGETATION, DEBRIS, BRUSH AND ROOTS TOPSOL EXCAVATED SHALL BE STOCKPILED ON THE STE IN AREAS DESCRIATED BY THE ENGINEER UNTIL THAT THIS TOPSOL CAN BE USED FOR FINAL GRADING. THIS IS NOT A PAY ITEM, BUT SHALL BE AN
- SUCH TIME SHAT THIS TOPSOL CAN BE USED FOR FINAL GRAUNG. THIS IS NOT A PAY THEM, BUT SHALL BE AN ABSORBED COST.

 5. ONCE CLEARING, GRUBBING, AND STRIPPING HAS BEEN COMPLETED THE CONTRACTOR SHALL EXCAVATE AREAS THAT ARE TO BE CUT TO REACH PLAN GRADE. CONTRACTOR SHALL THEN NOTIFY THE ENGISEER FOR A FIELD INSPECTION OF THE SUBGRADE PRIOR TO PLACEMENT OF ANY SELECT FILL. CONTRACTOR SHALL HAVE EQUIPMENT AVAILABLE TO PERFORM A PROOF ROLL OR FOR FURTHER EXCAVATION SHOULD THE ENGINEER BEEM NECESSARY, FINE—GRANED SOILS EXPOSED AFTER STRIPPING, EXCAVATION AND UNDERCUTTING ARE SUSCEPTIBLE TO PUMPING AND/OR BECOMING UNSTABLE AND RUTTING EXCESSVELY UNDER WET CONDITIONS. THE CONSTRUCTION TECHNIQUES, TYPES OF EQUIPMENT UTILIZED AND STIF DRAWAGE PROVIDED DURING CONSTRUCTION WILL HAVE A GREAT EFFECT ON THE PERFORMANCE OF THE FINE—GRAINED SOILS THROUGHOUT THE PROJECT. THE ROUTING OF RUBBER—TIRED EQUIPMENT SHOULD BE CONTROLLED TO MINIMIZE TRAFFIC OVER THE STE. ALL TRAFFIC SHOULD BE DISCOURAGED DURING PERCOSO OF INDELEMENT WEATHER.

 6. UNDERCUTTING AND BACKFILLING WILL BE REQUIRED TO REMOVE EXPANSIVE CLAYS (CH) IF PRESENT AND CREATE THE RECOMMENDED SOL BUFFER AT BUILDING STRUCTURE LOCATIONS AND AT ALL PAVEMENT AND SOEWALK LOCATIONS.

 7. MPORT SELECT FILL MATERIAL SHALL CONSIST OF SELECT, NON—ORGAN C AND DEBRIS—FREE SLTY CLAYS (CL) HAVING A PLASTICTY INDEX (PI) WITHIN THE RANGE OF 8 TO 22 AND A LIQUID EMIT LESS THAN 40 PERCENT. TO BE CLASSIFIED AS SILTY CLAYS (CL) THE FILL MATERIALS MUST HAVE MORE THAN 70% FINES PASSING THE NUMBER 200 SIEVE.

- SILEYEL.

 8. SOL BUFFER FOR THE BUILDINGS TO BE A MINIMUM OF 5' THICK AND EXTEND LATERALLY NOT LESS THAN 3' BEYOND THE STRUCTURE LIMITS.
- 9. SOL BUFFER FOR PAVEMENT AND SIDEWALK IS TO BE 3' THICK AND EXTEND LATERALLY NOT LESS THAN 3' BEYOND PAVEMENT, SIDEWALK EDGES.
- SOL BUFFER FOR PAYEMENT AND SIDEWALK IS TO 8E 3' THECK AND EXTEND LATERALLY NOT LESS THAN 3' BEYOND PAYEMENT, SDEWALK EDGES.
 FILL SOILS SHOULD BE COMPACTED FROM LIFTS NOT EXCEEDING 8" IN LOOSE THICKNESS TO NOT LESS THAN 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-598) AT MOISTURE CONTENTS WITHIN 2 PERCENTAGE POINTS OF THE OPTIMUM WATER CONTENT. STABLITY MUST BE EVIDENT DURING COMPACTION OF EACH LIFT SEFORE ANY SUBSEQUENT LIFTS OF FILL MATERIAL ARE ADDED.
 THE GRADING AND CONSTRUCTION OF THE SITE IMPROVEMENTS SHALL NOT CAUSE THE PONDING OF STORM WATER. ALL REAS ADJACENT TO THESE IMPROVEMENTS SHALL BE GRADED TO ALLOW POSTIVE DRAINAGE. POSTIVE DRAINAGE. POSTIVE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.
 THE CONTRACTOR SHALL TAKE SPECIAL CARE IN GRADING NEAR TREES, BUSHES AND SHRUBS WHICH ARE NOT TO BE REMOVED SO AS NOT TO CAUSE INJURY TO ROOTS OR TRUNKS.
 THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATION NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE BERDOVED. ANY DAMAGE DONE TO THE TEXT STING ITEMS WHICH ARE NOT INDICATED TO BE BERDOVED. ANY DAMAGE DONE TO THESE EXSTING ITEMS BY THE CONTRACTOR'S OPERATIONS SHALL

- INDICATED TO BE REMOVED. ANY DAMAGE DONE TO THESE EXISTING ITEMS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

 14. PROPOSED ELEVATIONS INDICATE FINISHED CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THICKNESS OF
- PROPOSED ITEMS (ROADS, WALKS, DRIVES, ETC.) OR TOPSOIL AS SHOWN.

 15. STREET PAYING TO REMAIN SHALL BE PROTECTED FROM DAVAGE, AND IF DAMAGED, SHALL BE REPLACED PROMPTLY.

WATER/SEWER NOTES:

- ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS AND PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE ALL THE MATERIALS AND APPURTENANCES NECESSARY FOR THE COMPLETE INSTALLATION OF WATER AND SEWER UTILITIES.

 ALL VALVE BOXES, AND FIRE HYDRANTS SHALL BE ADJUSTED TO PROPER LINE AND FINISHED GRADE BY THE CONTRACTOR AFTER PLACING OF PAVEMENT AND BEFORE FINAL ACCEPTANCE.

 IRENCHING AND EMBEDYENT WORK SHALL CONFORM TO ALL REQUIREVENTS AND SHALL FOLLOW THE TYPICAL CROSS—SECTION DETAIL FOR TRENCHING. UNLESS SPECIFED OTHERWISE, BACKFILL MATERIAL SHALL BE COMPACTED TO 95% DENSITY OF STANDARD PROCTOR IN ACCORDANCE WITH ASTM D-698. ALL BACKFILL
- COMPACTED TO 95% DENSITY OF STANDARD PROCTOR IN ACCORDANCE WITH ASTM D-698. ALL BACKFILL MATERIAL SHALL BE: COMPACTED IN 6" LAYERS. THE END OF WATER AND SEWER LINES SHALL BE TIGHTLY CAPPED OR PLUGGED AND MARKED UNTIL SUCH TIME AS SERVICE CONNECTIONS ARE MADE OR LINES ARE EXTENDED.

 ALL WATER LINES AND SANTARY SEWER LINES SHALL BE INSTALLED WITH A MINMUM OF THREE FEET (3") OF COVER OVER THE TOP OF THE P.PE AT FINISHED GRADE OR AS SHOWN OTHERWISE. WHERE INSTALLED IN A ROADWAY SECTION OR HEAVY DUTY PAVEMENT AREAS THE MINMUM COVER OVER THE TOP OF THE P.PE SHALL BE FOUR FEET (4"). BACKFILL SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO 96% STANDARD PROCTOR DENSITY.
- 7. TEN FEET (10") OF HORIZONTAL CLEARANCE IS REQUIRED BETWEEN ALL WATER AND SEWER LINES. AT LOCATIONS HERE THE WATER AND SEWER UNES MUST CROSS EACH OTHER THERE SHALL BE A MINUM CLEARANCE OF 18"
 WITH THE WATER PASSING OVER THE SEWER. IF THESE SEPARATIONS CANNOT BE MET, THE SEWER UNE SHALL
 BE CONSTRUCTED TO THE SAME SPECIFICATIONS AS THE WATER LINE AND BE WATER TIGHT UNTIL SUCH A POINT
 WHERE MINUM SEPARATION CAN BE MET. WHERE GRAVITY FLOW SEWERS CROSS ABOVE WATER LINES, THE WHERE MINMON SEPARATION CAN BE MET. THERE GRAVITIFED SCHOOLS GROSS AROUS INTER STALL BE DUCTILE IRON PRESSURE P.PE WITHOUT ANY JOINT CLOSER THAN THREE (3") FEET TO THE CROSSING, OR SHALL BE FULLY
- THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE WATER AND SEWER SYSTEMS IN ACCORDANCE THE UTILITY CONTRACTOR STALL BE RESPONSIBLE FOR TESTING THE WATER AND SEVER STSTEMS IN ACCORDANG WITH THE MSOH REGULATIONS AND SHALL NOTIFY THE ENGNEER AND MADISON COUNTY AT LEAST 48 HOURS; N ADVANCE OF PERFORMING ANY TESTS. ADDITIONAL TESTS ON WATER AND SEWER LINES WILL BE AS REQUIRED BY MADISON COUNTY. A COPY OF ALL TEST RESULTS SHALL BE FAXED TO BENCHMARK ENGNEERING & SURVEYING, LLC @ 601-591-0711.
 FITTINGS FOR ALL APPLICATIONS OF WATER AND SEWER LINES SHALL BE AN ABSORBED COST.

- TECHNICAL SPECIFICATIONS FOR ALL MATERIALS AND CONSTRUCTION METHODS FOR THE STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR THE MANUFACTURER'S RECOMMENDATION. JOINTS SHALL BE CONSTRUCTED AND JOINTED TOGETHER IN SUCH A MANNER THAT NO SPILL THROUGH OF BACKFILL WILL OCCUR.

- BACKFILL WILL OCCUR.

 ANY ADDITIONAL EXCAVATION REQUIRED FOR INSTALLATION OF BEDDING MATERIAL FOR STORM DRAIN P.PE SHALL BE INCLUDED IN THE CONTRACT PRICE PER LINEAR FOOT OF STORM DRAINAGE P.PE.

 AT THE EXPENSE OF THE CONTRACTOR, THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AND CONSTRUCT TEMPORARY STRUCTURES, EMBANKMENTS AND CULVERTS AS REQUIRED TO MAINTAIN THE EXISTING DRAINAGE SYSTEM AND CAPACITY IN THE WORK AREA. ANY AND ALL ITEMS CONSTRUCTED DURING THE PROGRESS OF WORK THAT ARE NOT NECESSARY FOR THE FINAL DRAINAGE SYSTEM ARE TO BE REMOVED AND THE AREA RESTORED TO IS ORIGINAL CONDITION.

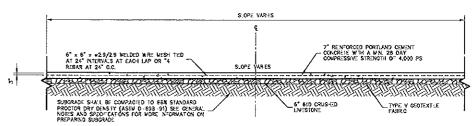
EROSION CONTROL NOTES:

- EROSON AND SEDIMENT CONTROL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

 THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO CONTROL EROSION AND WATER POLLUTION THROUGH THE CONSTRUCTION PERIOD. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE EARTH MOWING OPERATIONS BEGON. CLEARING AND GRUBBING SHALL BE HELD TO THE MINMUM WOTH NECESSARY TO ACCOMMODATE ROADWAY SLOPES. EMBANMENTS AND EXCAVATED AREAS SHALL BE PROMPTLY STABILIZED TO MINMIZE EROSION. BALED STRAW EROSION CHECKS AND SILT FENCING SHALL BE USED ALONG THE TIDE OF FILL SLOPES, IN DITCHES, AND IN OTHER AREAS WHERE EROSION IS A PROBLEM AND SLIT LADEN RUNOFF MAY ENTER A STREAM OR ADJACENT PROPERTY.

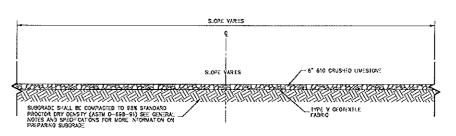
 ANY STOCKPLED SOIL OR FILL MATERIAL SHALL BE LOCATED AND TREATED IN A MANNER TO PREVENT SILT FROM ENTERING STREAMS. NO EXCAVATED MATERIAL SHALL BE DISCHARGED INTO DITCHES. THE CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED MATERIAL IS HALL BE DISCHARGED INTO DITCHES. THE CONTRACTOR SHALL ALL SCOLEROSON AND SEDMENT CONTROL MEASURES SHALL BE CONTINUALLY MANNANDED. THE CONTRACTOR SHALL KEEP STREETS AND SOLWALKS ADJACENT TO THE LIMITS OF CONSTRUCTION FREE OF MUD AND DEBRIS. CONTRACTOR SHALL COMPLY WITH THE ROSON CONTROL REMEMBERS OF MADISON COUNTY AND THE REQUIREMENTS OF THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY.

 CONTRACTOR SHALL COMPLY WITH THE ROSON CONTROL REQUIREMENTS OF MADISON COUNTY AND THE REQUIREMENTS OF THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY.

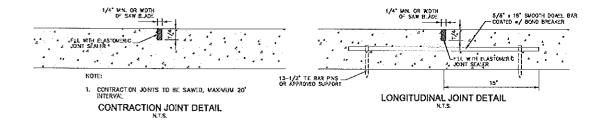


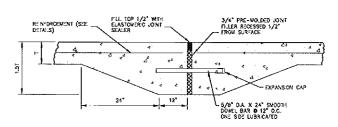
NOTE: CONCRETE PAYING MAY BE NON-RENET CONCRETE SMALL HAVE A MINIMUM 28 SPACING, JOINT CONTROJERATION, INX DE AVERCAN CONCRETE INSTITUTE "ACADA PORTANO CEMENT ASSOCIATION (PCA).

TYPICAL SECTION OF RIGID PAVEMENT STRUCTURE

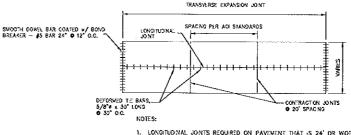


TYPICAL SECTION OF CRUSHED LIMESTONE DRIVE/PARKING





TRANSVERSE EXPANSION JOINT DETAIL

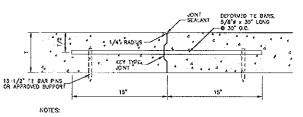


- 1. LONGITUDINAL JOINTS REQUIRED ON PAVEMENT THAT IS 24" OR WOER AND IS TO BE CENTERED.

 SEE DETAILS FOR MORE INFORMATION OF JOINT CONSTRUCTION AND DOWEL BARS.

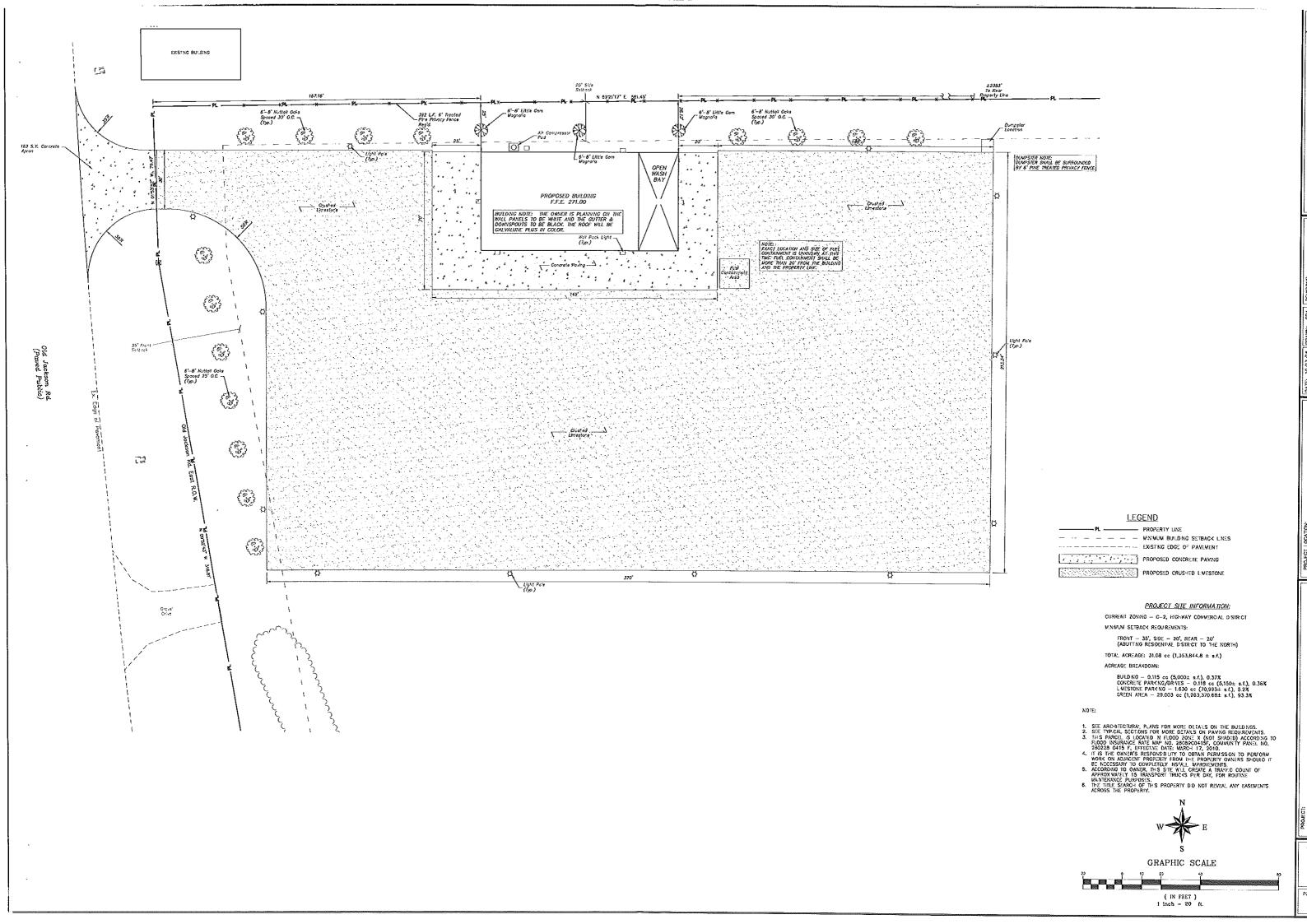
 3. KEY TYPE JOINT SHALL BE USED ON ALL LONGITUDINAL JOINTS WHEN ADJACENT LANE IS NOT POUSED AT THE SAME INF.

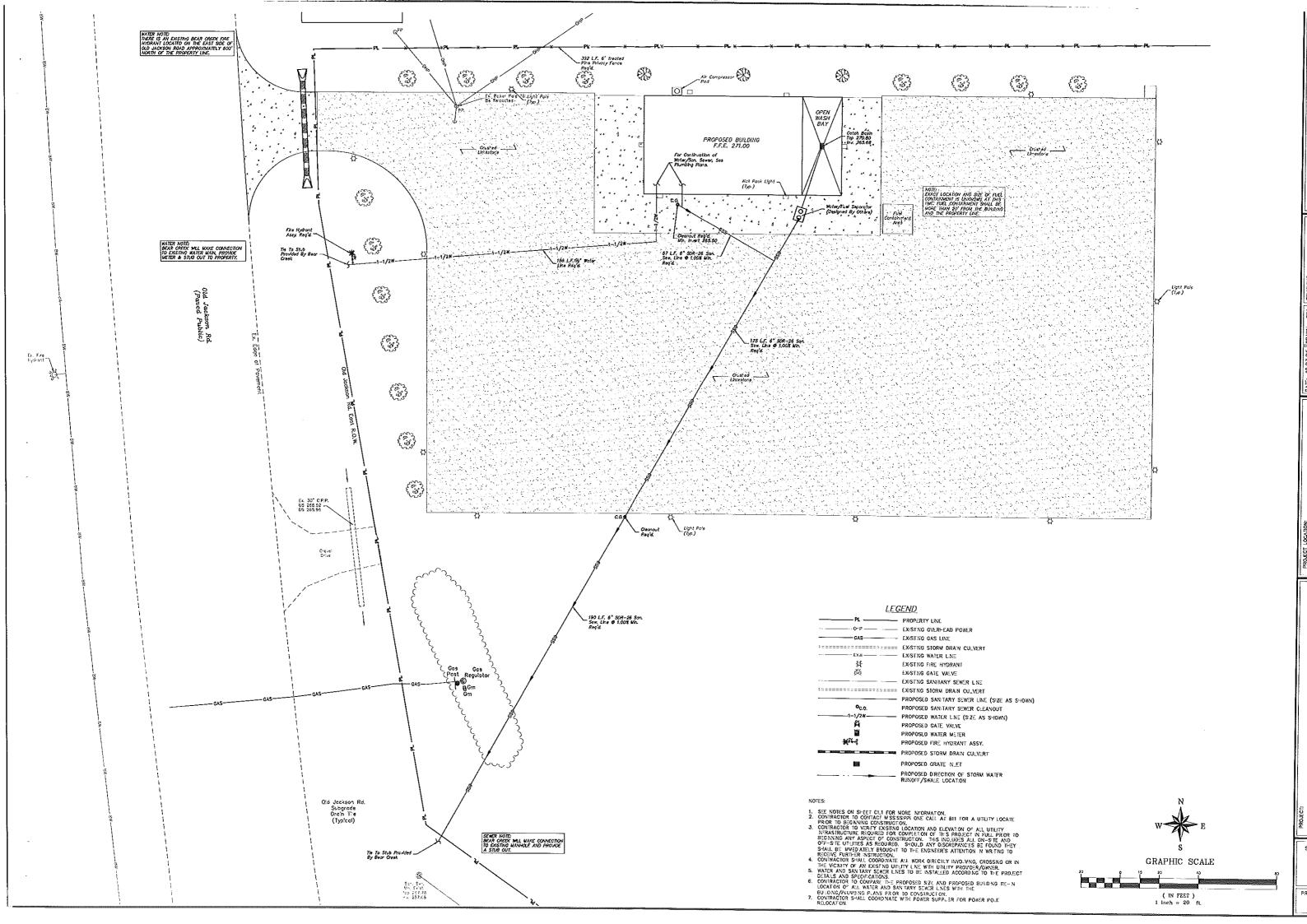
TYPICAL JOINT SPACING FOR RIGID PAVEMENT

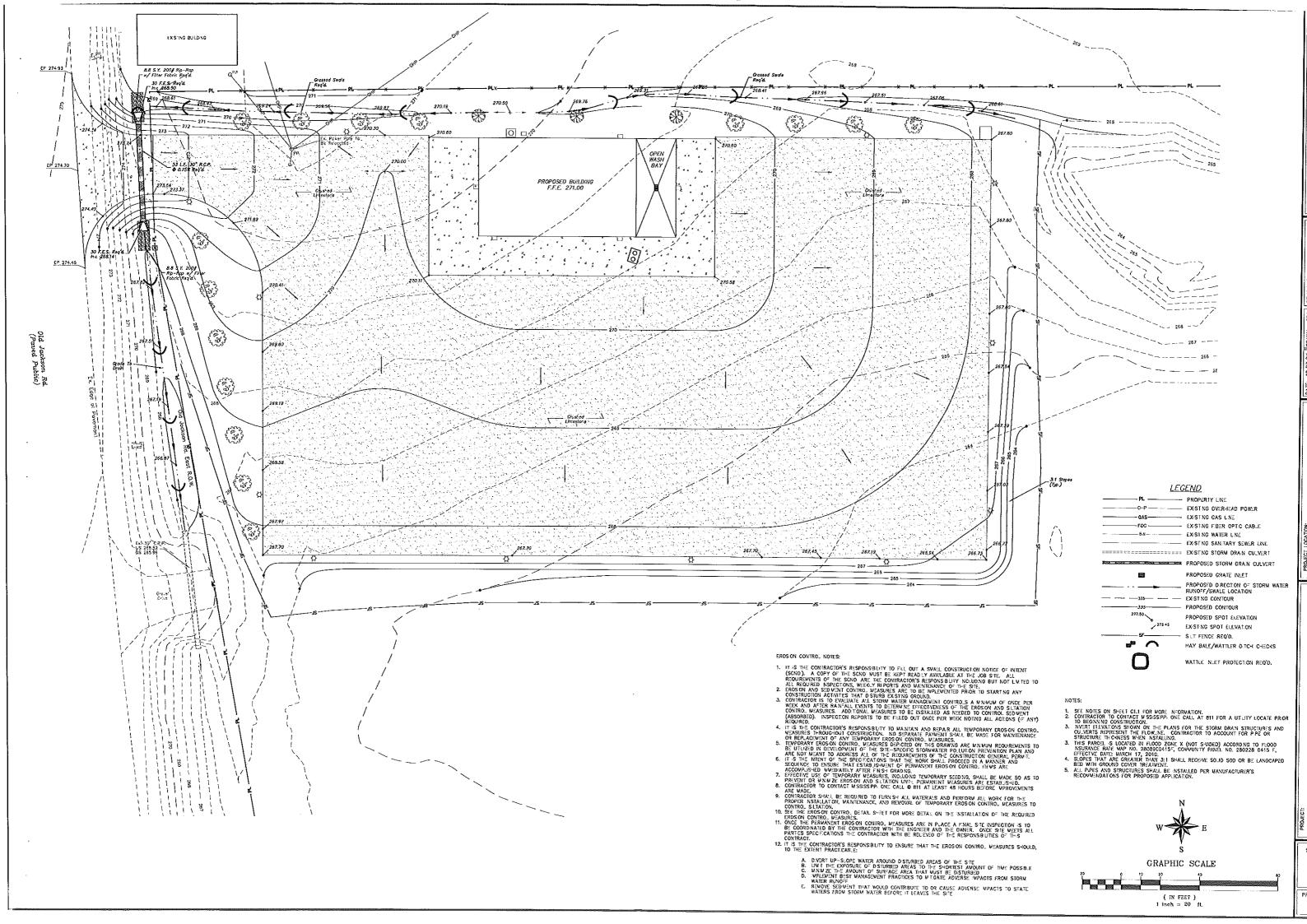


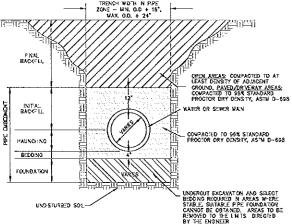
KEY TYPE JONT SHALL BE USED ON ALL LONGITIONAL CONSTRUCTION JONTS WICH ADJACENT LANE IS NOT POURED AT THE SAME TWE ALTERNATIVE METHODS FOR KEY TYPE JONT SHALL BE PRESENTED TO ENGISER FOR APPROVAL PROR TO INSTALLATION.

CONSTRUCTION JOINT DETAIL









TYPICAL TRENOL NOTES:

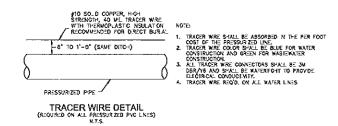
- 1. PAZ EMBEDDENT MATERIALS SHALL COMPLY WITH REQUIREMENTS OF SPECF CATIONS.
 2. KHAL, BACKFLL SHALL BE MATINE MATERIAL IN OPEN AREAS LALESS OTHERWISE DESCRIED BY THE DIOCKLES.
 3. KHAL, BACKFLL SHALL BE SELECT MATERIAL IN ALL TRENOFES CONSTRUCTED UNDER MOLDANIS, ORBED ON PAYED AREAS. MATERIAL SHALL EXTEND 5 SECTION THE EDGE OF PAYNOS STRUCTURE(S).
 3. REACH SECTION FROM THE PAYER IS THE CONTRACTOR'S RESPONSELITY DURNO MARRANTY.

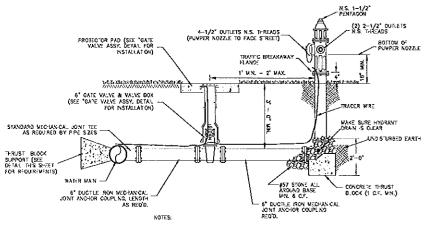
- 5. SELECT BEDDING MATER AL FOR PIPE EMBEDDENT WHICH COASSIS OF BEDDING, HAMDLING AND INTIAL BADGILL ZONES SHALL BE ASSOMBED IN THE PER FOOT COST OF THE PIPE.

 6. UNDERGUL EXCHANION MAY BE REQUIRED IT MATERIAL AT PLANNED GRUDE WILL NOT PROVIDE STRUKE TRAIL PROVIDE BOTTOM FOR PIPE LAYNO,

 7. FOLMOATON SELECT BEDDING AND UNDERGUT EXCANATION WILL BE PLACED AS DREGTED BY THE ENGREEN.

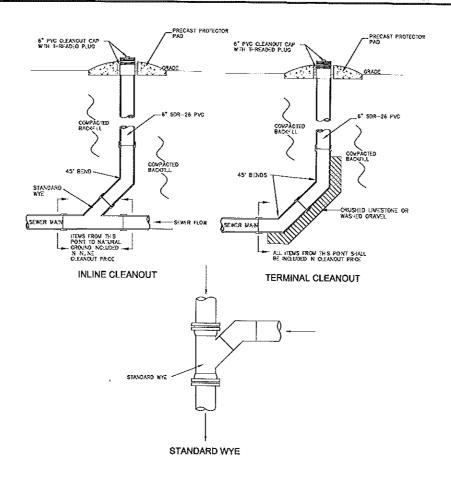
TYPICAL TRENCH DETAIL FOR WATER AND SEWER LINES

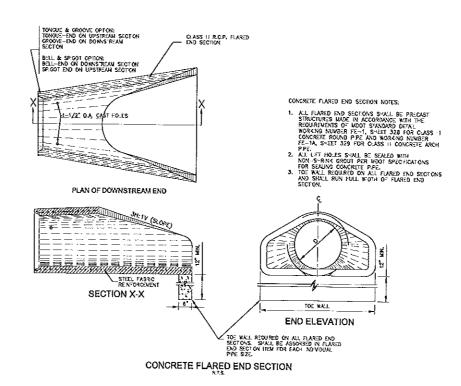


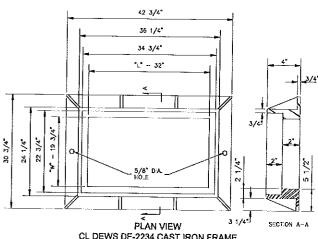


- 1. ALL FRE HORANT ASSEMBLES TO NOLIDE CATE VALVES
 2. CONTRICTOR TO USE DEGA-LUSS ON ALL RESTRANCE JONIS.
 3. FRE HORANT TO MATIO EXSTING (F. MN) OR SE MUELLER A-423,
 OR APPROVED EQUAL (MUST BE APPROVED BY OTY OF FLOROGO).
 AS TO ALL YALVE ASSEMBLY DETAL FOR MORE INFORMATION ON
 ASTALLATION.
 3. ALL TRUCK MEE CONNECTORS SHALL BE 3M DBR AND SHALL BE
 WATERTIGHT TO PROVDE ELECTRICAL COMPUNITY.
 6. ALL TIESS SHORN ON THE DETALL (NOLIDING VALVE) ARE
 ASSORBED IN TIRE HYDRANT ASSEMBLY TIEM.

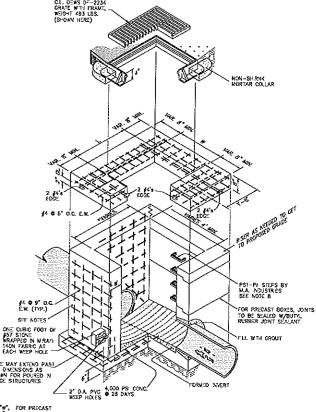
FIRE HYDRANT ASSEMBLY







CL DEWS DF-2234 CAST IRON FRAME



WA'L THEORIESS, "W", FOR PRECAST BOXES SHALL BE 5" MIN., FOR POURED N PLACED SHALL BE 6" MIN.

OUTTER NUET NOTES:

- 1. "L" AND "A" BHENSONS WIL WARY DEPENDING ON THE TIPE OF CASTING SECOND ON THE CHANNOS. IT IS INTENDED THAT THE TRAVE BE CONTIRED ON THE BOX WILESS NOTED OFFENDS.

 BOARS DAY BE PRECAST FEITHER ALLOW OF POLICED IN PLACE (ADOD PS: 20 DAY COMPRESS WE STRINGTH). PRECAST MANNOS SINTH COAL TOPS MAY BE USED FOR CRATE PRECES TO THE PPE SIZES AND DEPTHS OF CATCH BASKS DETERMINED BY PPE SIZES AND ANALES AND CASTINGS TO BE USED. FOR MAY OF 12' FROM THE OUTSIDE EDGE OF THE PPE TO THE NOSE EDGE OF THE WALL.

 4. CONTRACTOR TO ENSURE THAT WATER IS NOT ALLOWED TO POND BOHND THE INLET BOXES DURN'S CONTRINCTION.

 5. ON PRECAST CONCRETE BOXES THE LIFT FOURS ON EACH SOLITON TO BE STAILED WATERTON'T WITH MONSHARK OROUT NOSE AND OUTSIDE.

 6. ON PRECAST CONCRETE BOXES THE LIFT FOURS ON EACH SOLITON TO BE STAILED WATERTON'T WITH MONSHARK OROUT NOSE AND OUTSIDE.

 6. ON LIFT.

 6. SILES RECORD. IN SIRECULARIES OFFICE THAN AS IN OPPHIL. JEST SITE TO BE 14" FORM THE

- BONCS SHILL HAVE FORMED AVERTS OUT OF NOWSHING CROUT SLOPING TO BRAIN TO OUTLET OUTSITE.

 OUTSITE.

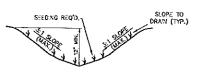
 7. STIFFS REDD. IN STRUCTURES CREATER THAN 48" IN DEPTH. FIRST STEP TO BE 18" FROM THE BOTTION WITH 12" SPADNO BETMEN REMAINED STIFFS.

 PRECAST BOYES SHALL BE, POURD IN SECTIONS AS NEEDED AND RECOVER-DED BY THE MANAFACTURER TO GET TO DESCRIB LEVELATION.

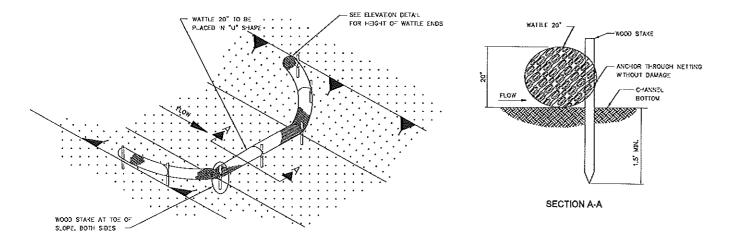
 9. BON WIDTH MLL WARY DEPENDENT ON THE SEE OF THE PRES INTERNO AND LEAVING THE BOX. IT IS UP TO THE CONTRICTORY AND MANAFACTURED OR POURD SO THAT THE COVER'S THE ONLY PART OF THE BOX THAT SYSTEL BY MANAFACTURED OR POURD SO THAT THE COVER'S THE ONLY PART OF THE BOX THAT SYSTEL GREEN HAS BEEN DODE. CONTRICTOR SHALL INSLITE RESERS AS MEDDED TO DESCRIB THAT A MANAFACTURED OR FOR SOME CONTRICTOR SHALL INSLITE RESERS AS MEDDED TO DESCRIB THAT A MANAFACTURE OF SOIL CAN BE PLACED ON TOP OF THE BOX TO COVER.
- IT.

 ALL ITEMS 9-OWN ON THIS DETAY, KOLIDING TRAME AND COVER AS WELL AS COMPLETE INSTALLATION
 AND CONNECTION OF PIPING SHALL BE NOLIDED IN THE PER EACH PAY ITEM "GRATE INLET".

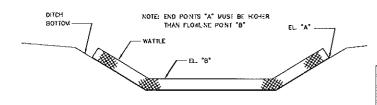
GRATE INLET DETAIL



SWALE SECTION



DETAIL (DITCH CHECK)



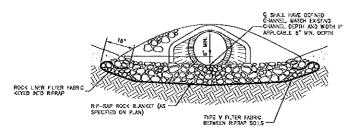
ELEVATION DETAIL

- 1. UNIVUM RECOMMENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK IS 100' UNLESS SHOWN OTHERWISE ON THE PLANS OR EROS ON CONTROL. PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON ECD-4
- ANCHORING WOOD STAKES SHALL BE SZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT
 EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET.
 ALL NON-DEGRADABLE MATERIALS SHALL BE REMOVED WHEN NO LONGER NEEDED.
- 3. TRENOTING OF WATTLES WAY BE NECESSARY IF PLPING BECOMES EMDENT,
- 4. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS.

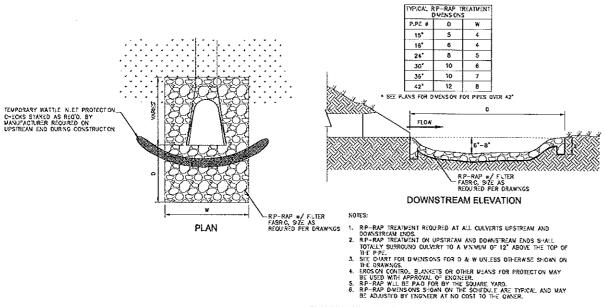
WATTLE DITCH CHECK SELECTION GUIDELINES

WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.

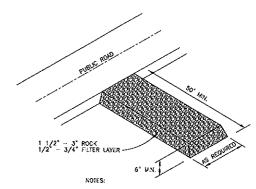
WATTLE DITCH CHECK



TYPICAL RIP-RAP SECTION AT STORM DRAIN CULVERT



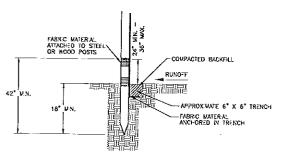
CULVERT RIP-RAP OUTLET PROTECTION



- VEHICLE TRACKING MAT SHALL BE LOCATED AT EVERY ENTRANCE/EXIT TO THE CONSTRUCTION SITE.
 VEHICLE TRACKING MAT SHALL BE WANTENED BY CONTRACTOR AS NEEDED TO PREVENT ANY MATERIAL FROM BENO TRACKED ONTO CITY STREET.

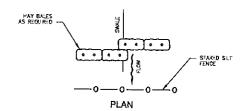
 SEDMENT AND DIMER WATERIAL SPULED, DROPPED OR TRACKED ONTO CITY STREET SHALL BE VMEDIATELY REMOVED BY CONTRACTOR.

TEMPORARY CONSTRUCTION ENTRANCE DETAIL



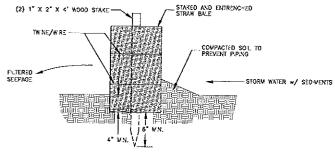
SILT FENCE DETAILS

STORM DRAIN STRUCTURE DATA





ELEVATION



HAY BALE INSTALLATION NOTES:

- 1. HAY BULES SHALL BE TRENCHED 3" TO 4" AND STUKED WTH (2) 172"44" WOD STAKES PER BULE.
 2. SLI FENCE SHALL BE COMINISTED WHAY BULES.
 3. ADJUGENT BAYES SHALL BE BUTTED FRAVE TOGETHER. UNANO DABLE GAPS SHALL BE PLUGGED WITH PAY OR STRAW TO PREVENT SLIF FROW PASSING.
 - HAY BALE INSTALLATION

PROGRESS PRINT