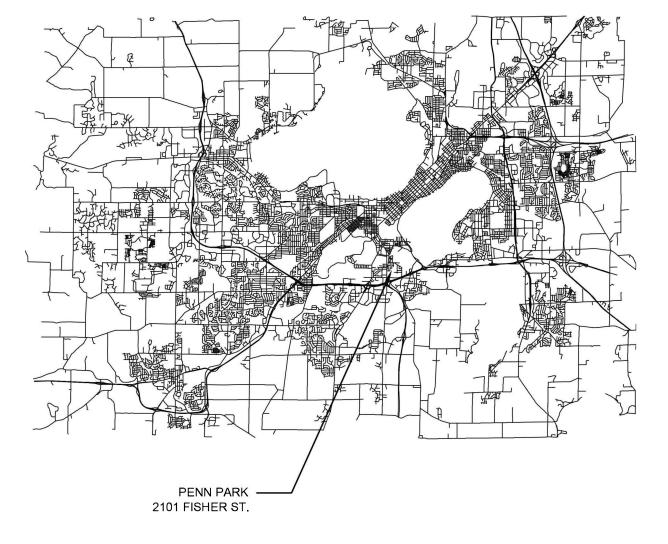
LEGEND

- **EX. ELECTRICAL HAND HOLE**
- EX. ELECTRICAL PEDESTAL
- **EX. TELEPHONE PEDESTAL**
- EX. TREE
- EX. WATER HYDRANT
- EX. WATER VALVE
- EX. PROPERTY LINE
- EX. EASEMENT
- EX. FENCE LINE
- EX. TREE LINE
- EX. CONTOUR (INDEX)
 - EX. CONTOUR (INTER)
- EX. ABANDONED UTILITY
 - EX. ELECTRIC
 - EX. FIBER OPTIC
 - EX. NATURAL GAS
 - EX. OVERHEAD LINE
 - EX. SANITARY SEWER
 - EX. STORM SEWER
 - EX. CABLE TV
 - EX. UNDERGROUND TELEPHONE
- EX. WATER LINE
- EX. GRAVEL
- EX. CONCRETE
- - ##.## PRO. SPOT ELEVATION
 - PRO. CONTOUR (INDEX)
 - PRO. CONTOUR (INTER)
- PRO. FENCE
 - PRO. GRADING LIMITS
- PRO. SILT SOCK
 - PRO. CONSTRUCTION FENCE
- PRO. ASPHALT
- PRO. CONSTRUCTION ENTRANCE

2023 PENN PARK COURTS MUNIS NUMBER: 13930-51-130







City of Madison Department of Public Works PARKS DIVISION

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> play MADISON PARKS



SHEET SCHEDULE

- **COVER SHEET** 0.1
- **EXISTING CONDITIONS**
- PROJECT LOCATION AND SITE ACCESS
- DEMOLITION AND PROTECTION PLAN
- SITE PLAN
- GRADING AND EROSION CONTROL PLAN
- **DESIGN COMPUTATIONS**
- PAVEMENT DETAIL
- **COURT LAYOUT DETAILS**
- FENCING DETAILS
- BASKETBALL GOAL DETAILS
- SITE ELECTRICAL PLAN
- UTILITY PLAN ELECTRICAL SERVICE **DETAILS**

PROJECT:

2023 PENN PARK **COURTS**

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for

DATE

OVERTISED TO BID	03-30-2023

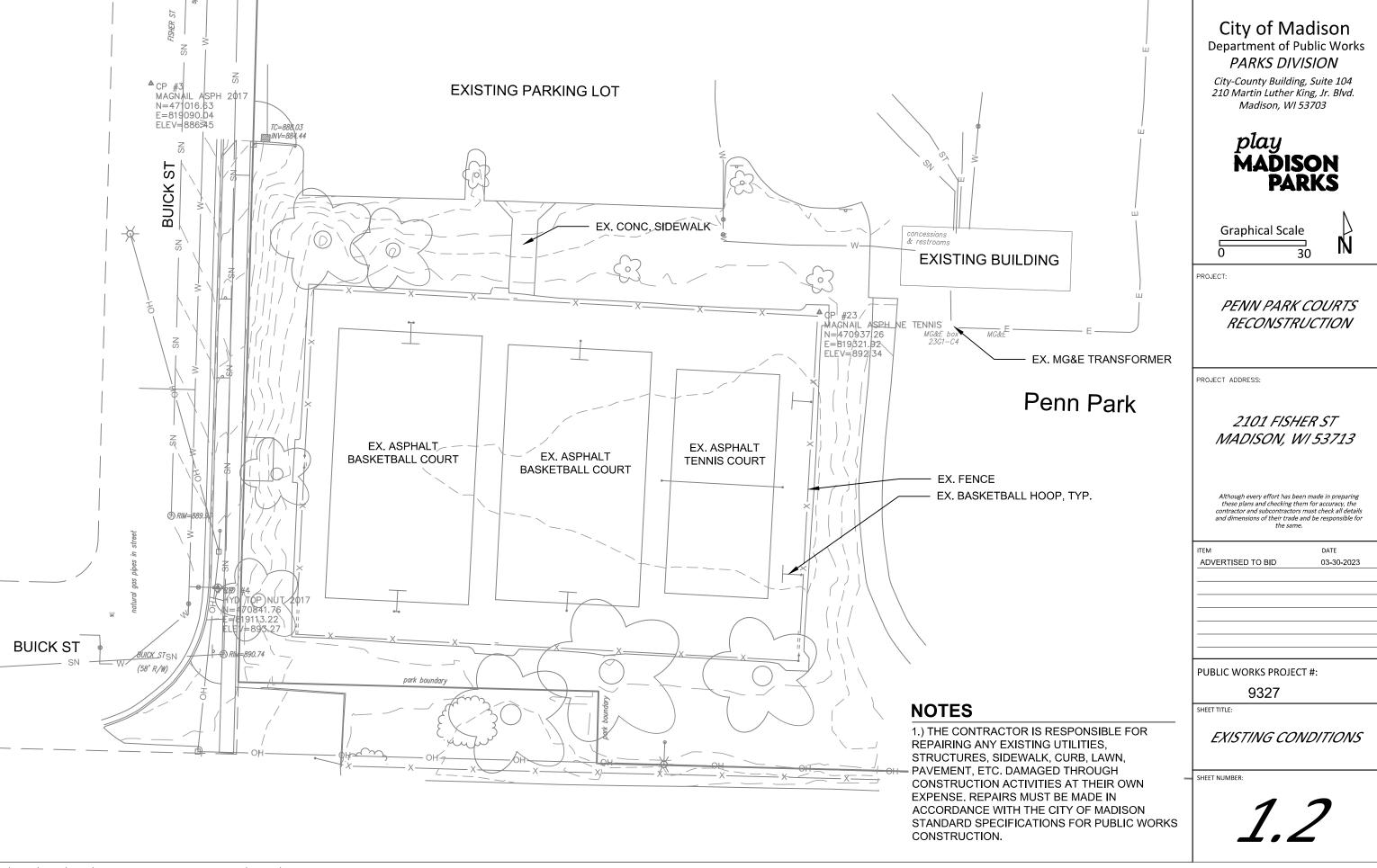
PUBLIC WORKS PROJECT #: 9327

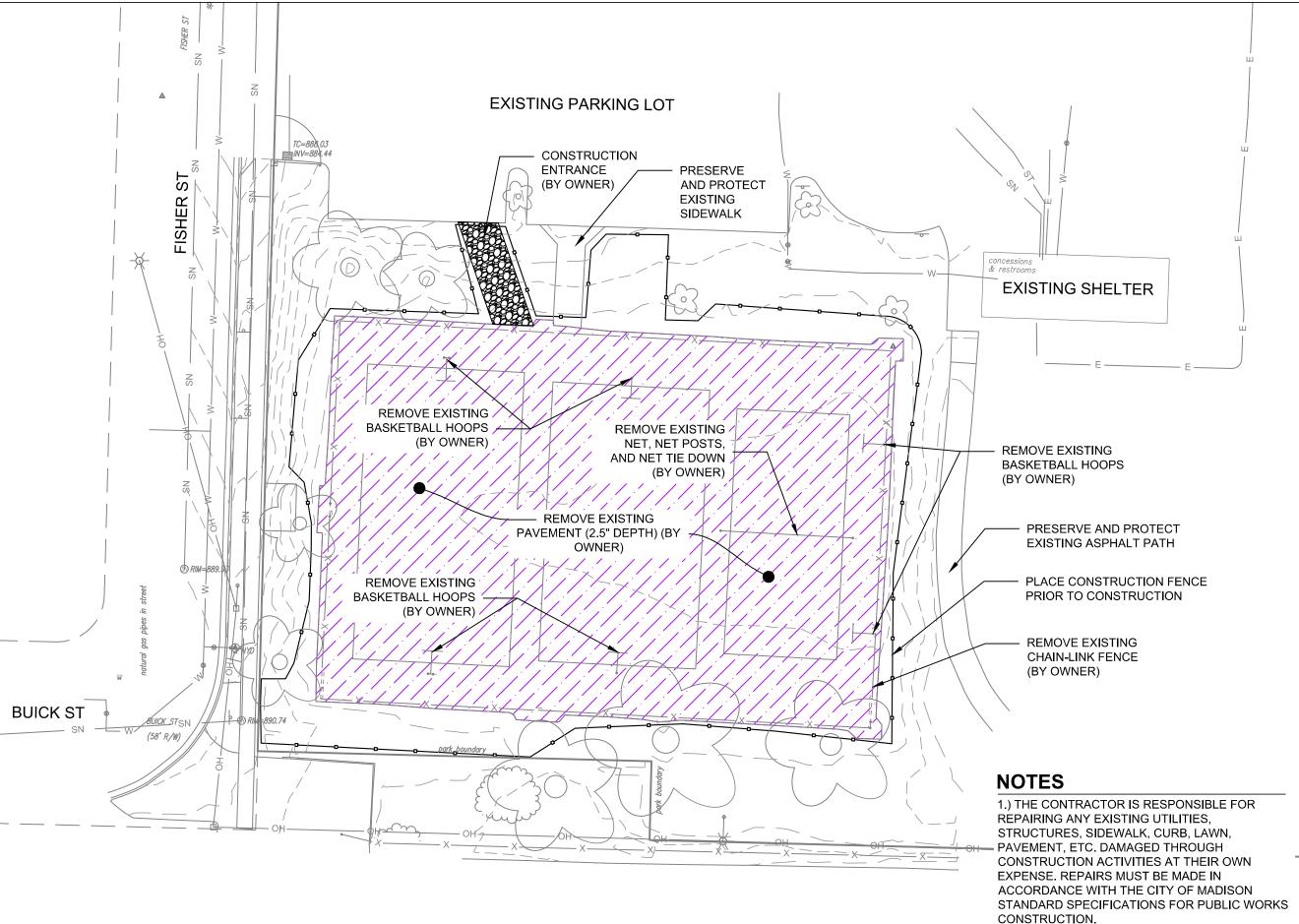
COVER SHEET

SHEET NUMBER:

SHEET TITLE:







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Graphical Scale

N

PROJECT:

PENN PARK COURTS
RECONSTRUCTION

PROJECT ADDRESS:

2101 FISHER ST MADISON, WI 53713

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03-30-2023

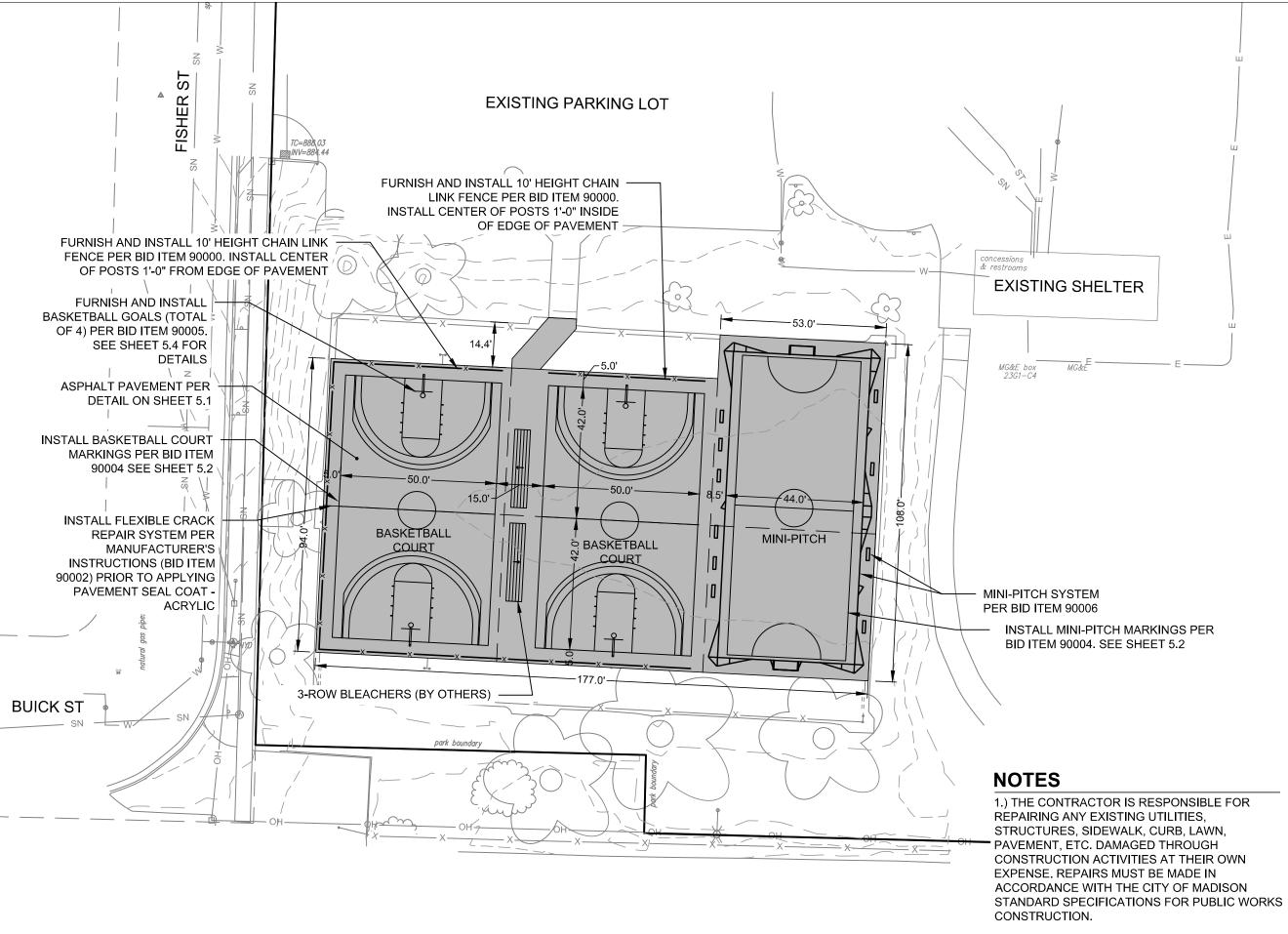
PUBLIC WORKS PROJECT #:

ADVERTISED TO BID

9327

DEMOLITION AND
EROSION CONTROL
PLAN

SHEET NUMBER:



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Graphical Scale
0 30

N

PROJECT:

PENN PARK COURTS
RECONSTRUCTION

PROJECT ADDRESS:

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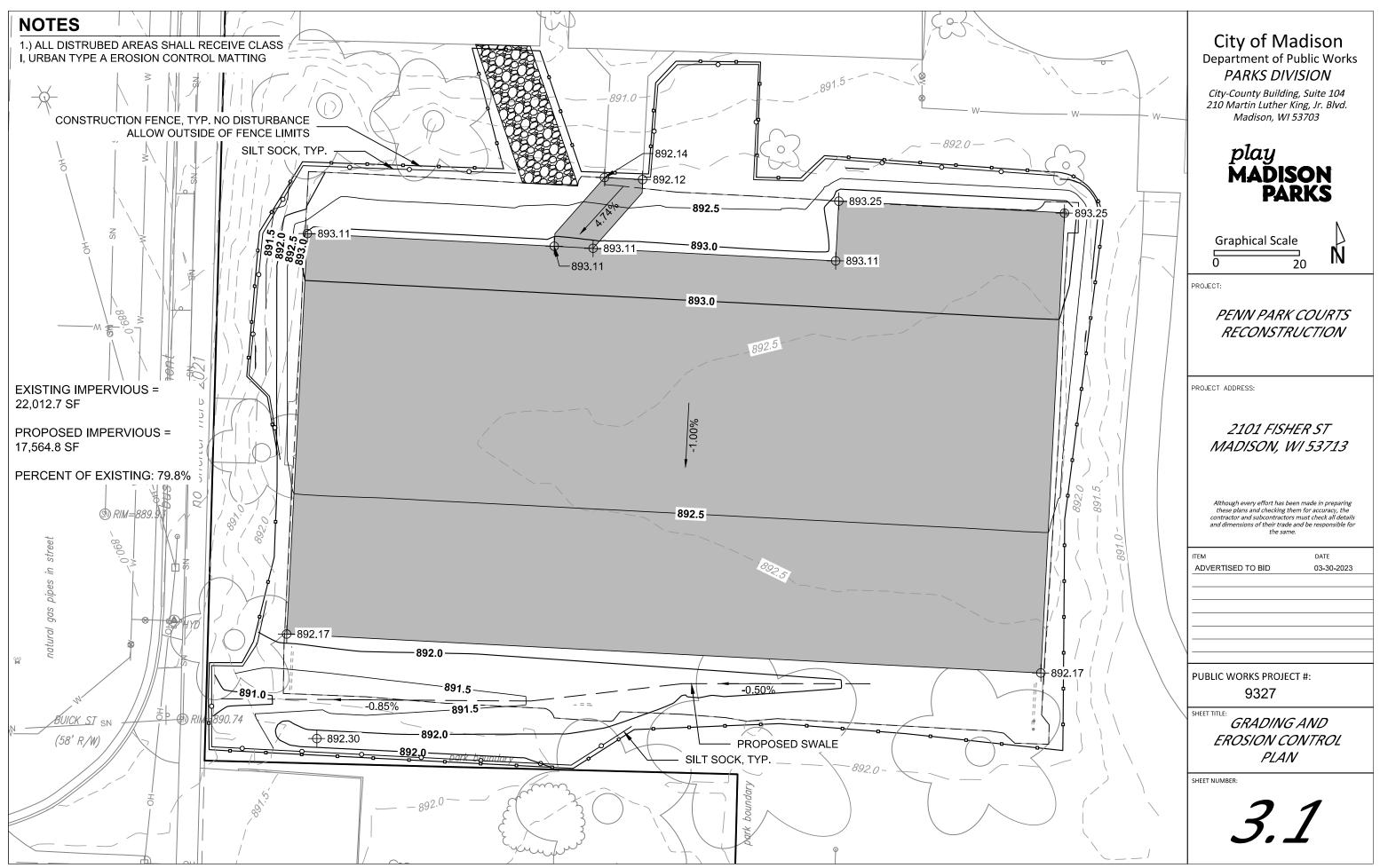
PUBLIC WORKS PROJECT #:

9327

SHEET TITLE:

SITE PLAN

SHEET NUMBER:



	Penn Park	Courts Reconstruction	on								
	City of Madiso	n Public Works Contract 93	306								
		Date: 3/13/2023									
	Notes:										
		es are cuts, negative volume									
	Not all parts of	f all surface models (Digital	Terrain Models) are used for	computations	or intended fo	r actual cor	nstruction.				
Sort	Grp	M aterial	ltem	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfac- tored volume (cu ft)	Unfac- tored volume (cu yd)	Expansion Factor (%)	Factored (Uncom- pacted) Volume (cu yd)
1.1	Grass to Grass	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	2784.00	0.50	1392.00	51.6	0%	51.6
1.1	Grass to	Topson Excavate	Cut subsoil to proposed	II/a	II/a	2704.00	0.50	1392.00	31.0	070	31.0
1.2		Subsoil Excavate	subgrade	Ex-6in	Pro-6in	2784.00	varies	311.58	11.5	0%	11.5
1.2	Grass to	Subsoil Excavate	Fill subsoil to proposed	LX-OIII	10-0111	2704.00	varies	311.30	11.5	0 70	11.5
1.3		Subsoil Place	subgrade	Ex-6in	Pro-6in	2784.00	varies	-626.67	-23.2	0%	-23.2
1.0	Grass to		Cabgrado	LX OIII	1 10 0111	2701.00	Valled	020.01	20.2	070	20.2
1.4		Topsoil Place	Place 6" topsoil	n/a	n/a	2784.00	-0.50	-1392.00	-51.6	0%	-51.6
2.1	Pavement to Grass	Gravel Excavate	8.5" Depth Material	n/a	n/a	4414.00	0.71	3126.44	115.8	0%	115.8
	Pavement to		Cut subsoil to proposed								
2.2	Grass	Subsoil Excavate	subgrade	Ex-11in	Pro-6in	4414.00	varies	184.14	6.8	0%	6.8
	Pavement to		Fill subsoil to proposed								
2.3		Subsoil Place	subgrade	Ex-11in	Pro-6in	4414.00	varies	-1841.40	-68.2	0%	-68.2
	Pavement to										
2.4		Topsoil Place	Place 6" topsoil	n/a	n/a	4414.00	-0.50	-2207.00	-81.7	0%	-81.7
3.1		Gravel Excavate	8.5" Depth Material	n/a	n/a	17565.00	0.71	12441.29	460.8	0%	460.8
	Pavement to		Cut subsoil to proposed								
3.2		Subsoil Excavate	subgrade	Ex-11in	Pro-15in	17565.00	varies	3635.82	134.7	0%	134.7
2.0	Pavement to	Cultaril Diago	Fill subsoil to proposed	Fv. 44i-	Dra 45in	47EGE 00	l va mi a a	1400 50	FF 2	00/	FF 2
3.3	Pavement to	Subsoil Place	subgrade	Ex-11in	Pro-15in	17565.00	varies	-1492.56	-55.3	0%	-55.3
3.4		New Pavement and Base	15" depth material	n/a	n/a	17565.00	-1.25	-21956.25	-813.2	0%	-813.2
5.4	1 avernerit	provi avenient and base	10 deptil material	III u	1 1/ U	17000.00	1.20	21000.20	010.2	370	010.2

Computation Summary

Positive volumes are cuts (material available), negative volumes are fills (material needed)

Row Labels	Sum of Factored (Uncom-pacted) Volume (cu yd)
Gravel Excavate	576.58
New Pavement and Base	-813.19
Subsoil Excavate	153.02
Subsoil Place	-146.69
Topsoil Excavate	51.56
Topsoil Place	-133.30
Grand Total	-312.02

Bid Item	Quantity	Units	Relation to Table Above
			= Subsoil Excavate + Topsoil Excavate +
20101 Excavation Cut	781	CY	Gravel Excavate
20221 Topsoil	798	SY	= (Topsoil Place)/167

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PROJECT:

PENN PARK COURTS
RECONSTRUCTION

PROJECT ADDRESS:

2101 FISHER ST MADISON, WI 53713

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-	

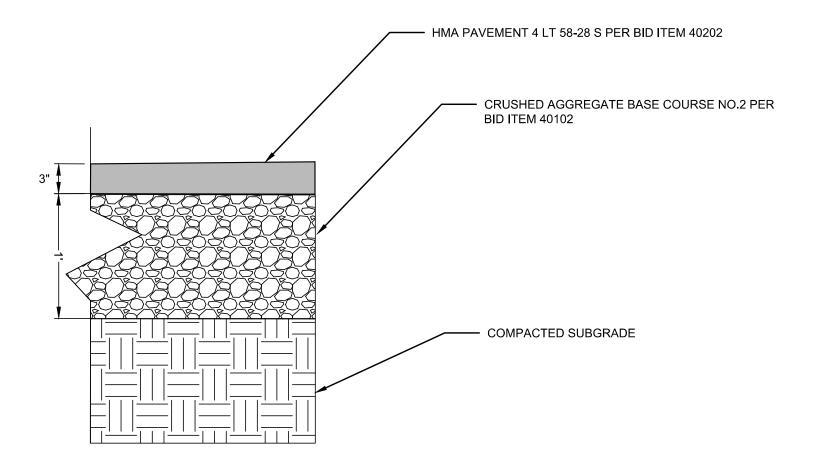
PUBLIC WORKS PROJECT #:

9327

SHEET TITLE:

DESIGN COMPUTATIONS

SHEET NUMBER:



ASPHALT PAVEMENT SECTION NTS

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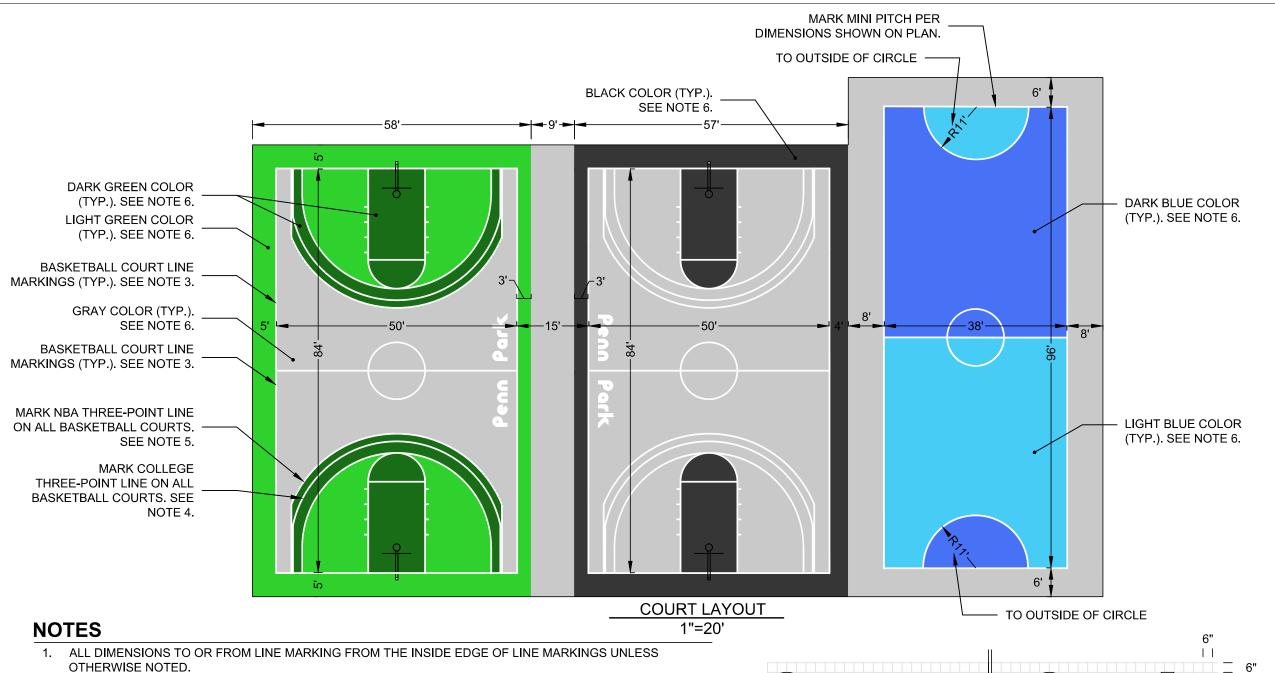
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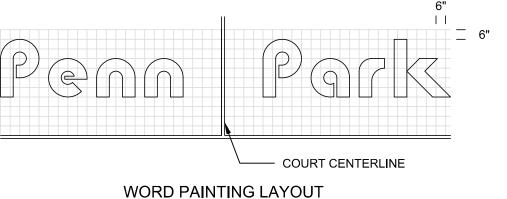
SHEET TITLE:

PAVEMENT DETAIL

SHEET NUMBER



- 2. ALL LINE MARKINGS SHOWN SHALL BE WHITE COLOR AND 2" WIDTH. SEE SPECIFICATIONS ITEM 90004 FOR ADDITIONAL LINE PAINTING INFORMATION.
- 3. UNLESS OTHERWISE NOTED, ALL BASKETBALL COURT LINE MARKINGS SHALL BE IN ACCORDANCE NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS COURT LAYOUT GUIDELINES. A DIAGRAM CAN BE FOUND HERE: https://www.nfhs.org/media/1018381/basketball_court_diagram.pdf
- 4. COLLEGE THREE-POINT LINE MARKINGS SHALL BE IN ACCORDANCE WITH 2022-2023 NCAA DIMENSIONS. A DIAGRAM CAN BE FOUND HERE: https://ncaaorg.s3.amazonaws.com/championships/sports/basketball/rules/common/PRXBB CourtDiagram.pdf
- 5. NBA THREE-POINT LINE MARKINGS SHALL BE IN ACCORDANCE WITH 2022-2023 NBA RULES. DIMENSION INFORMATION CAN BE FOUND HERE: https://official.nba.com/rule-no-1-court-dimensions-equipment/
- 6. COLORS INDICATED ARE FOR ACRYLIC PAVEMENT SEAL COAT. COLOR SAMPLES SHALL BE SUBMITTED TO THE PROJECT MANAGER FOR APPROVAL PRIOR TO APPLICATION. SEE SPECIFICATIONS ITEM 90003 FOR ADDITIONAL INFORMATION.



(1) COURT LAYOUT DETAIL

1"=5"

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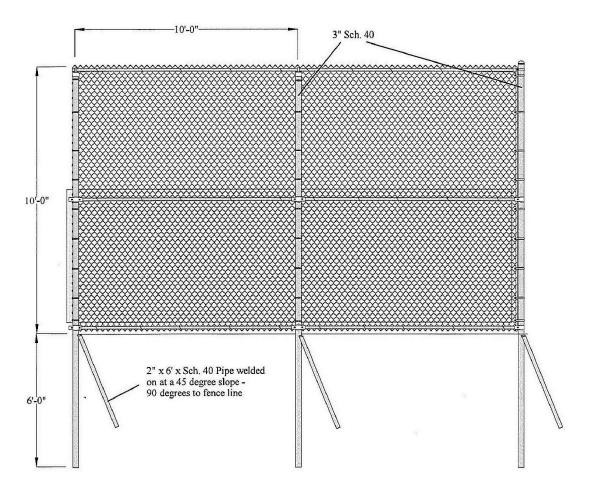
COURT LAYOUT DETAIL

SHEET NUMBER:

NOTES

1) FABRIC, FRAME WORK AND FITTINGS FOR CHAIN LINK FENCE PER DETAILS SHOWN ON THIS SHEET AND IN SPECIFICATIONS SECTION 90000.

2) END/CORNER POSTS SHALL BE 3" O.D. SCHEDULE 40 WATER PIPE, GALVANIZED; LINE POSTS SHALL BE 3" O.D. SCHEDULE 40 WATER PIPE; RAILS SHALL BE $1\frac{5}{8}$ " O.D. SCHEDULE 40 WATER PIPE, GALVANIZED; DRIVE ANCHORS SHALL BE 2' GALVANIZED SCHEDULE 40 WATER PIPE; FABRIC SHALL BE $1\frac{3}{4}$ ", 11-GAUGE MESH, ALUMINIZED.



		Heig	ht Mes	h Gage Se	lvage Finish	TYPE
FABRIC		10'	1 3/4	4" 11 KK	ALUM	
FRAMEW	ORK:	O.D.	WALL	WT PER FT	LENGTH	Schedule 40
END/COR	NER POST:	3"	.203	5.79	18'	Schedule 40
LINE POS	T:	3"	.203	5.79	18'	Schedule 40
RAILS:		1 5/8"	.140	2.27	10' TYP.	Schedule 40



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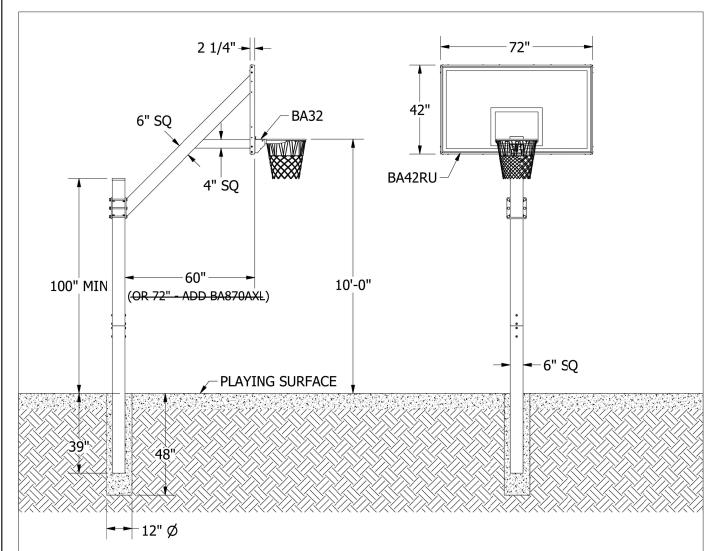
PUBLIC WORKS PROJECT #:

9327

SHEET TITLE:

FENCING DETAIL

SHEET NUMBER



Pole assembly shall be constructed of 6" square, 3/16" wall structural steel tube suitable for a 39" in-ground installation. Pole shall be shipped in 2 pieces and attached in the middle by means of two 3/8" x 3" x 12" steel bar, and eight 1/2" x 3/4" button head cap screws forming a single, straight, rigid pole. Connecting points shall be covered by pole padding if padding is included in the system. 45° extension arm shall be 6" square, 3/16" wall structural tube with a 4" square, 1/8" wall steel tube horizontal support and 1/4" thick steel backboard support plate. Pole shall be designed so that rim mounts directly to pole to minimize stress on the backboard. Extension arm shall be mounted by means of 6 each 5/8" grade 8 bolts. Pole system shall provide a minimum setback from the front of pole to front of backboard of 60". System can be ordered with an optional 72" setback (BA870AXL) if desired. Entire pole system shall have a textured black polyester powder coated finish and carry a lifetime functional warranty. Vertical pole shall be capped to keep out rain. Backboard shall be 42" x 72" official size 1/2" clear unbreakable polycarbonate with a limited lifetime warranty. Polycarbonate shall be framed with aluminum extensions and have a white border and shooters square. Rim shall be the flexible type with official-sized 5/8" diameter ring and one-piece net attachments. Rim shall have orange powder coated finish and a 1-year limited warranty. Installation to be completed in accordance to manufacturers instructions. Do not scale drawings. Entire weight shall be 480#.



PRODUCT SPECIFICATION

BA873U-BK ULTIMATE $^{\text{\tiny{TM}}}$ POLYCARBONATE PLAYGROUND BASKETBALL SYSTEM

REVISED 5/2/22 L.M.

603 L Street, Lincoln, NE 68508 - Phone: (800) 247-7668 - Fax: (800) 638-0698 - www.bisoninc.com - info@bisoninc.com

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PROJECT:

PENN PARK COURTS
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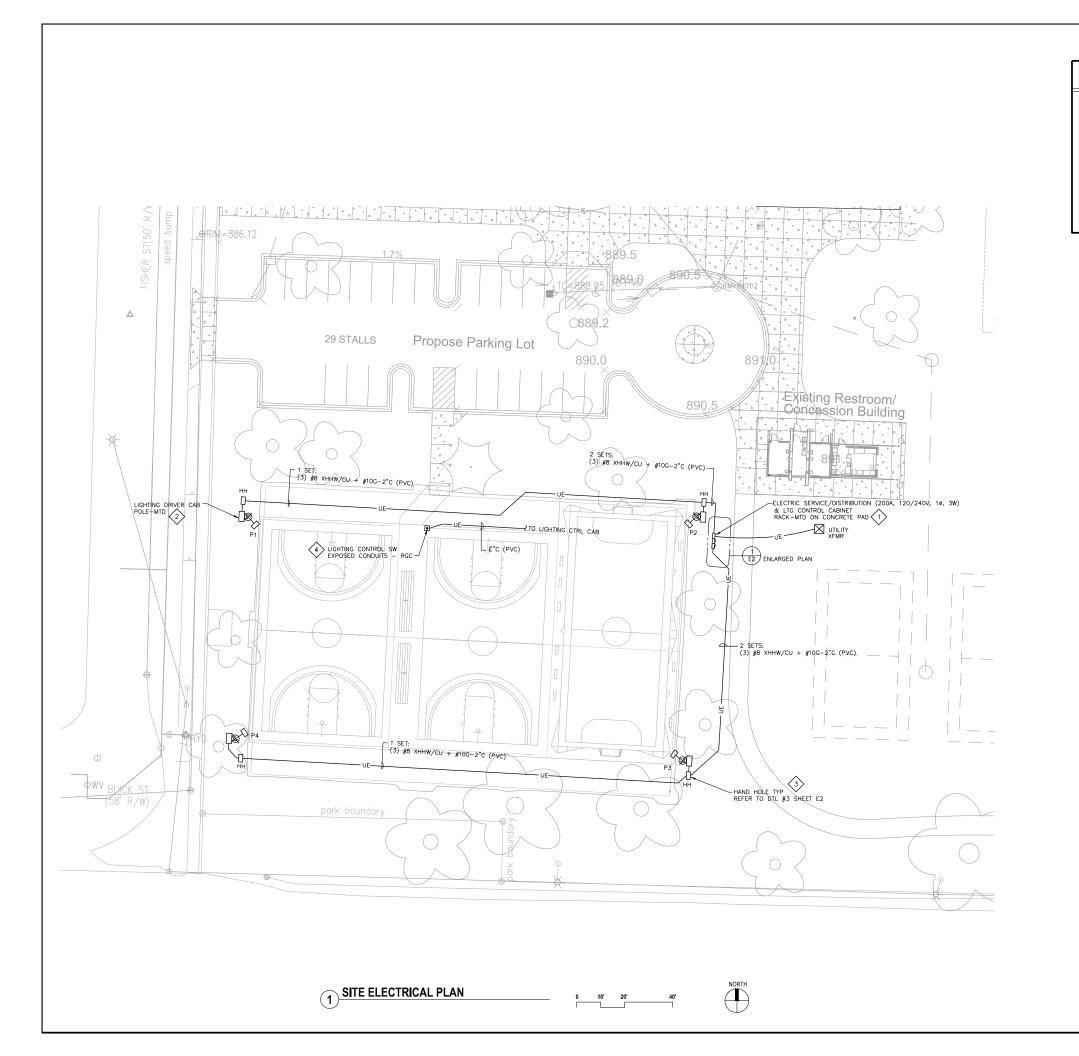
PUBLIC WORKS PROJECT #:

9327

SHEET TITLE:

BASKETBALL HOOPS DETAIL

SHEET NUMBER:



SYMBOL SCHEDULE

SAN EXISTING SANITARY SEWER

WESTING WATER SERVICE

EXISTING WATER SERVICE

EXISTING UNDERGROUND
ELECTRICAL SERVICE

TO EXISTING TELEPHONE

UNDERGROUND ELECTRICAL SERVICE

ELECTRICAL TRANSFORMER

TELEPHONE PEDESTAL

ELECTRIC METER

POLE—MTD LIGHT FIXTURE

AT GRADE HAND HOLE

SITE UTILITY GENERAL NOTES:

 COORDINATE NEW ELECTRIC SERVICE INSTALLATION WITH MG&E. OWNER TO PAY ALL NEW SERVICE FEES.

SITE UTILITY PLAN NOTES:

- 1) COORDINATE FINAL LOCATION OF ELECTRIC SERVICE & CONTROL CABINET WITH MG&E & OWNER.
- $\stackrel{\textstyle <}{2}$ coordinate new lighting pole locations & wiring requirements with 'musco' rep & owner.
- $\stackrel{\textstyle \checkmark}{\cancel{3}}$ Confirm final electrical hand hole locations with 'Musco' Rep & Owner.
- CONFIRM FINAL LIGHT CONTROL SWITCH LOCATION WITH 'MUSCO' REP & OWNER.

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17 Applegate Court, Suite 200 Madison, WI 53713 Phone: (608) 288-9260 email: hein@heinengrp.com

PROJECT:

PENN PARK 2101 FISHER STREET MADISON, W

PENN PARK BASKETBALL COURT LIGHTING

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-1*1	DATE
D SET	02-09-2023

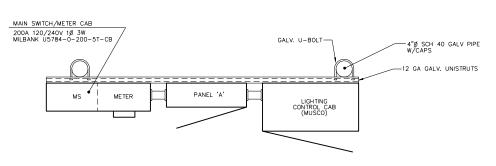
PUBLIC WORKS PROJECT #: 9327

SHEET TITLE:

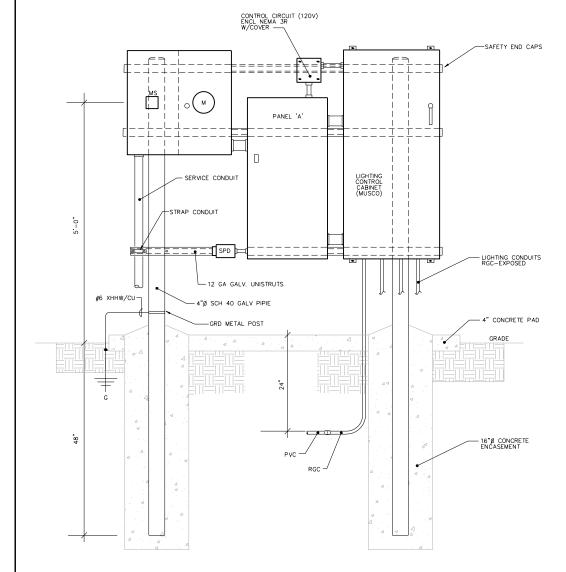
SITE ELECTRICAL PLAN

SHEET NUMBER

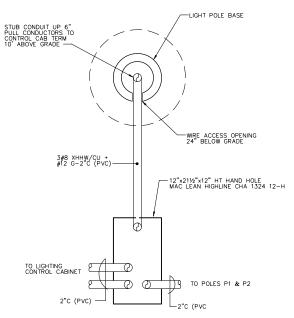
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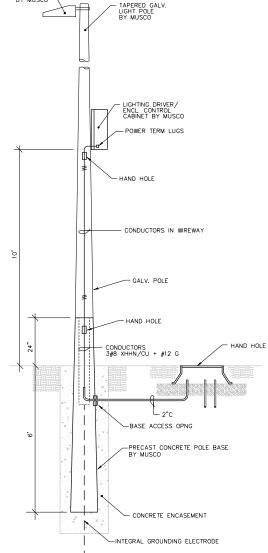
1 ELECTRIC SERVICE/DISTRIBUTION/CONTROL CAB PLAN N.T.S.

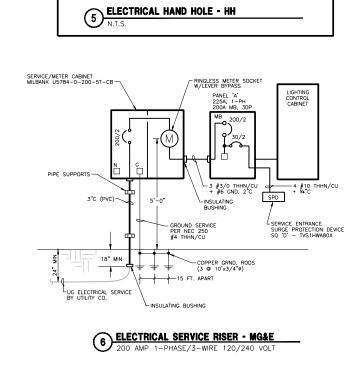


2 ELECTRIC SERVICE/DISTRIBUTION/CONTROL CAB ELEVATION
N.T.S.



TYPICAL HAND HOLE - LIGHT POLE DETAIL





MIN.

- HANDHOLD ENCLOSURE

4" THICK CONCRETE PAD -

#4 REBAR —

LR ELBOW -

		AMPS 225		-	'A'				AIC=22K NEMA 3R, SERVIO MOUNTING SURF	
		MAIN 200			1				LOCATION EXTER	
BRK	ίR	DESCRIPTION	CIRC	UIT	PHASE	LOADS	CI	RCUIT	DESCRIPTION	BRŁ
A	Р	1	WATT	NO.	Α	В	NO.	WATT		Α
20	2	LT POLE P3	700	1	1400		2	700	LT POLE P1	20
-	-	LT POLE P3	700	3		1400	4	700	LT POLE P1	-
20	2	LT POLE P4	700	5	1400		6	700	LT POLE P2	20
-	-	LT POLE P4	700	7		1400	8	700	LT POLE P2	-
20	1	CONTROL XFMR	300	9	300		10	-	FUTURE POLES	_
				11			12	-	FUTURE POLES	-
				13			14	_	FUTURE POLES	-
				15			16	_	FUTURE POLES	-
				17			18		FUTURE POLES	-
_				19			20		FUTURE POLES	-
				21			22	_	FUTURE POLES	-
_				23			24		FUTURE POLES	-
				25			26		FUTURE POLES	
30		TVSS	_	27			28		FUTURE POLES	-
-	-	TVSS	_	29			30	_	FUTURE POLES	
		IMATED MAND LOAD: 590 24		WATT AMPS	-	2800		TOTA LOA	AL CONNECTED DS: 5900 24.6	WATT!

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PROJECT:

PENN PARK 2101 FISHER STREET MADISON, W

PENN PARK BASKETBALL COURT LIGHTING

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DATE		
02-09-2023		

PUBLIC WORKS PROJECT #: 9327

SHEET TITLE:

UTILITY PLAN -ELECTRICAL SERVICE **DETAILS**

CONDUCTORS IN WIREWAY
GALV. POLE
HAND HOLE
CONDUCTORS 3#8 XHHN/CU + #12 G
BASE ACCESS OPNG PRECAST CONCRETE POLE BASE BY MUSCO CONCRETE ENCASEMENT
INTEGRAL GROUNDING ELECTRODE
LIGHT POLE WIRING DETAIL N.T.S.