

**CITY OF MERCED PROJECT NO. CP220061
CHANGE ORDER NO. 2**

DATE: October 3, 2023

PROJECT NAME: Community Park 42

PROJECT LOCATION: Merced, California

CONTRACTOR: American Paving Company

ADDRESS: P.O. Box 27587, Fresno CA 93729

REASON FOR CHANGE ORDER:

Additional work to add underground electrical, water. Quantity adjustment for additional asphalt per the contract unit price.

THE NUMBER OF WORKING DAYS WILL BE ADJUSTED AS FOLLOWS: 40

SKETCH ATTACHED: Yes

DESCRIPTION OF CHANGE:

Quantity Adjustments

Item No	Item	Unit	Quantity	Unit Price	Amount
1	Portable Changeable Message Signs (base bid Item 7)	LS	-1	\$ 15,000.00	\$ (15,000.00)
2	Storm Drain Manholes (base bid Item 18)	EA	2	\$ 3,500.00	\$ 7,000.00
3	6" Sewer (Additional Sewer lines) (base bid Item 23)	LF	1391	\$ 167.00	\$ 232,297.00
4	Sewer Manhole (base bid Item 24)	EA	3	\$ 5,000.00	\$ 15,000.00
5	10" Water Line (Offsite) (base bid Item 33)	LF	-499	\$ 90.00	\$ (44,910.00)
6	Credit for deletion of Polyolefin under concrete (base bid & CCO#1)	LS	-1	\$ 41,900.00	\$ (41,900.00)
7	Credit for Storm Drain Pipe Substitution of ADS (12" & Above)	LS	-1	\$ 47,000.00	\$ (47,000.00)

Total for Quantity Adjustments: \$ 105,487.00

Extra Work

Item No	Item	Unit	Quantity	Unit Price	Amount
1	Surveying Services	LS	1	\$ 9,200.00	\$ 9,200.00
2	Soil Import	LS	1	\$ 112,200.00	\$ 112,200.00
3	Site Grading (Rough/ Fine)	SF	259,710	\$ 1.55	\$ 402,550.50
4	12" Storm Drain	LF	38	\$ 80.00	\$ 3,040.00
5	Storm Drain Area Drains	EA	1	\$ 2,400.00	\$ 2,400.00
6	Connect to Existing Storm Drain	LS	1	\$ 3,200.00	\$ 3,200.00
7	Electrical	LS	1	\$ 401,500.00	\$ 401,500.00
8	Concrete Flatwork (Site Finish 'A')	SF	23,666	\$ 9.50	\$ 224,827.00
9	Plexipave Surfacing Basketball Court (Site Finish 'J')	SF	9,400	\$ 2.00	\$ 18,800.00
10	Plexipave Surfacing Basketball Court Striping (Site Finish 'K')	LF	1,100	\$ 2.00	\$ 2,200.00
11	Plexipave Surfacing Basketball Court Perimeter (Site Finish 'L')	SF	4,625	\$ 2.00	\$ 9,250.00
12	2x4 Header at Limit of Phase 1 (Site Feature '50')	LF	1,477	\$ 15.00	\$ 22,155.00
13	Basketball Poles, Backboard, and Rim (Site Feature '59')	EA	4	\$ 9,000.00	\$ 36,000.00
14	Irrigation System	SF	226,609	\$ 0.60	\$ 135,965.40
15	Extra Work to Connect to MID transformer	LS	1	\$ 18,300.00	\$ 18,300.00
16	Extra Work to relocate 6" & 12" force main	LS	1	\$ 12,250.00	\$ 12,250.00
17	Extra Work to remove & replace crushed rock for underground	LS	1	\$ 1,414.10	\$ 1,414.10
18	Extra Work to relocated storm drain @ Well Site 20	LS	1	\$ 11,800.00	\$ 11,800.00

Total for Extra Work \$ 1,427,052.00

Total for Change Order No. 2 \$ 1,532,539.00

ORIGINAL CONTRACT AMOUNT:	\$	5,800,580.70
CHANGE ORDER #1 AMOUNT:	\$	1,365,524.40
CHANGE ORDER #2 AMOUNT:	\$	1,532,539.00
TOTAL PROJECT COST TO DATE:	\$	8,698,644.10

FUNDS/ACCOUNTS VERIFIED:	
CP220061 PrkR CON CIPImp-Lnd	\$ 20,000.00
CP220061 WWS CON CIPnfr	\$ 174,297.00
CP220061 ARPAPrk&CS CON CIPInfr	\$ 423,780.00
CP220061 ARPAPrk&CS CON CIPImp-Lnd	\$ 914,462.00
	\$ 1,532,539.00

FINANCE OFFICE	DATE
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ACCEPTED


 (CONTRACTOR) Stephen J. Poindexter, President


DATE: 11/16/23

RECOMMENDED


 (CITY ENGINEER)

DATE: 11/21/23

RECOMMENDED


 (PROJECT CHAMPION)

DATE: 11/21/23

APPROVED


 (CITY ATTORNEY)

DATE: 11/30/23

AUTHORIZED

 (INTERIM CITY MANAGER)

DATE: _____

ATTESTED

 (ASSISTANT/DEPUTY CITY CLERK)

DATE: _____

(SEAL)

AMERICAN PAVING CO.

REQUEST FOR INFORMATION

RFI NO: 1

PROJECT: Community Park 42
AMERICAN PAVING CO. JOB NO. 21.2304

DATE: July 28, 2023

TO: City of Merced
CARE OF: Joe Cardoso
678 W 18th St
Merced, CA 95340
(209) 388-7508

FROM: American Paving Co.
Chris Williams
P.O. Box 27587
Fresno, CA 93729
(559) 268-9886

FILING: APC RFI# 001

ATTN: Joe Cardoso

POTENTIAL IMPACTS:

REF. SPECIFICATION:

Bid Item #23 - 6" Sewer

DRAWING: C2.1, C2.2, C2.3, C2.4,
C2.5, C2.6

☒ SCHED ☐ LABOR
☒ MAT'L ☐ NO IMPACT
☐ OTHER

RFI SUBMITTED BY: Chris Williams

NEED REPLY BY: August 11, 2023

REQUEST: Bid Item # 23 - 6" Sewer shows a quantity of 1,170 LF. When we preformed our take off, we found 2,830LF shown on the plans. That's an additional 1,660LF. Please verify quantities.

REPLY: See sheets C2.1 to C2.5 and C2.7 to C2.8 Rev 1 dated 8/16/23 showing revised sewer line routing between concession building and well site 20. Line item 23 on Bid Schedule A to be updated to 2,561 LF.

FIRM: O'Dell Engineering

SIGNED: *Angel Mariscal*

DATE: 8/16/2023

CC:

☒ CLARIFICATION ONLY
☐ CHANGE IN CONTRACT
☐ ENGINEER CHANGE
☐ OTHER

MATCHLINE "C" - SEE SHEET C2.5

STUB FOR FUTURE CONNECTION.

STUB FOR FUTURE CONNECTION
6" INV.(SW) 163.11

DI 1
RIM=165.2
6" INV.(NE) 162.99 IN
6" INV.(W) 162.99 OUT

DI 7
RIM=164.8
6" INV.(E) 161.76 IN
8" INV.(SW) 161.76 OUT

6" SD
245 LF
S=0.0050

STUB FOR FUTURE CONNECTION
6" INV.(S) 161.72

70 LF
S=0.0050

119 LF
S=0.0033

DI 3
RIM=163.8
6" INV.(N) 161.37 IN
8" INV.(NE) 161.37 IN
8" INV.(W) 161.37 OUT

DI 9
RIM=163.5
12" INV.(N) 158.59 IN
8" INV.(E) 160.73 IN
12" INV.(W) 160.40 IN
18" INV.(SW) 158.59 OUT

CO 2
RIM=164.9
4" INV.(E) 155.19 IN
4" INV.(W) 155.19 OUT
STUB FOR CONNECTION TO BUILDING
4" INV.(W) 155.20

6" SS WYE
6" INV. 155.18

SSMH 3
RIM=163.3
6" INV.(SE) 155.41 IN
6" INV.(N) 155.31 OUT

STUB FOR FUTURE CONNECTION.

DI 6
RIM=161.9
18" INV.(NE) 158.52 IN
24" INV.(S) 158.51 OUT

6" SD
194 LF
S=0.0010

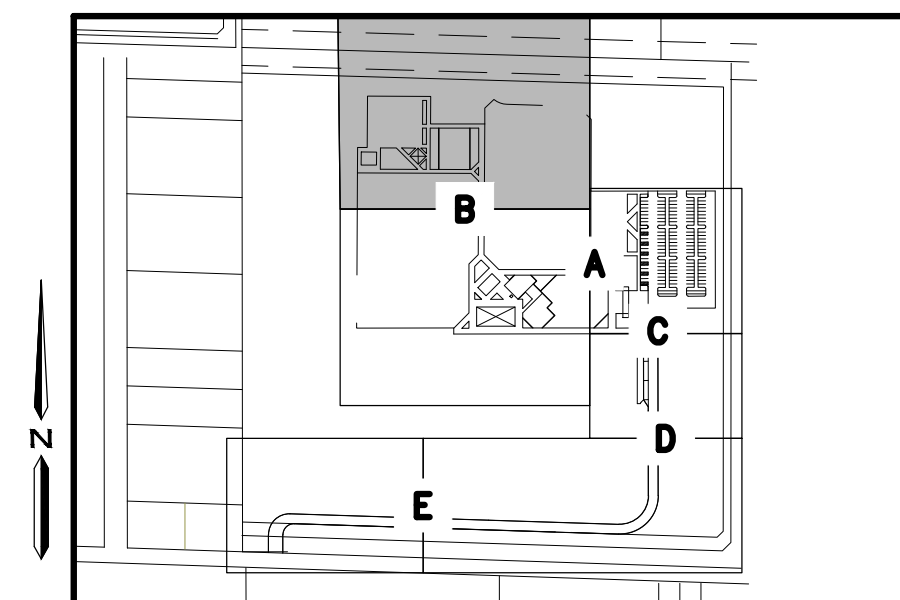
6" SD
404 LF
S=0.0024

STUB FOR FUTURE CONNECTION
8" INV.(S) 160.82

1" W
18 LF

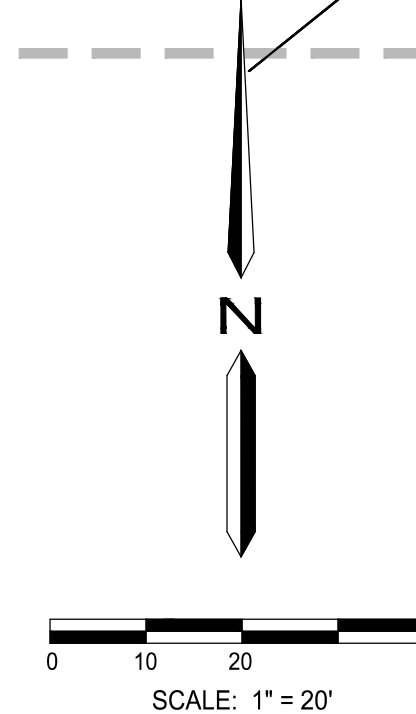
1" W
345 LF

MATCHLINE "B" - SEE SHEET C2.2



LOCATION MAP

1"=500'



O'DELL
ENGINEERING



NO.	DATE	BY	REVISION MADE
1	8/16/23	AM	ADDED SCOPE AREA REVISION

Underground Service Alert

TWO DAYS BEFORE YOU DIG
Call : TOLL FREE 1 (800) 227 - 2600

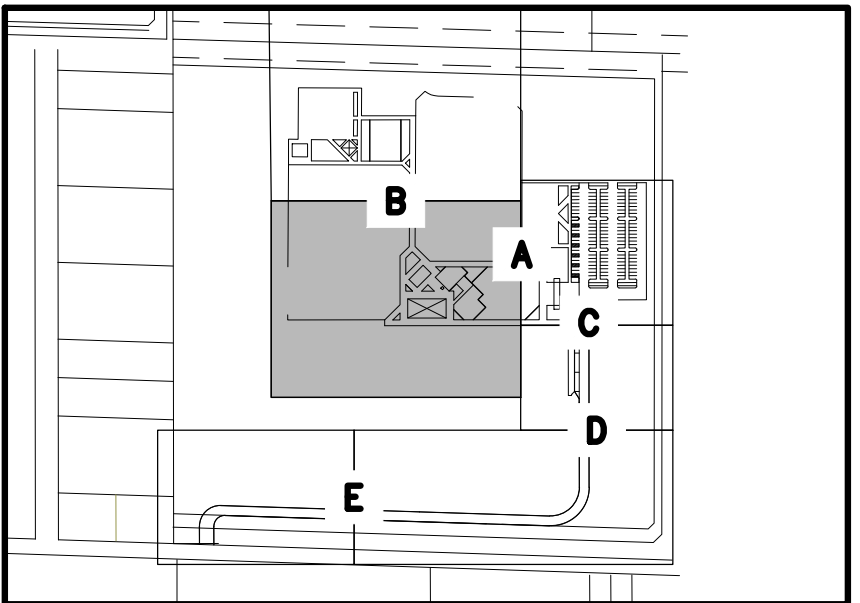
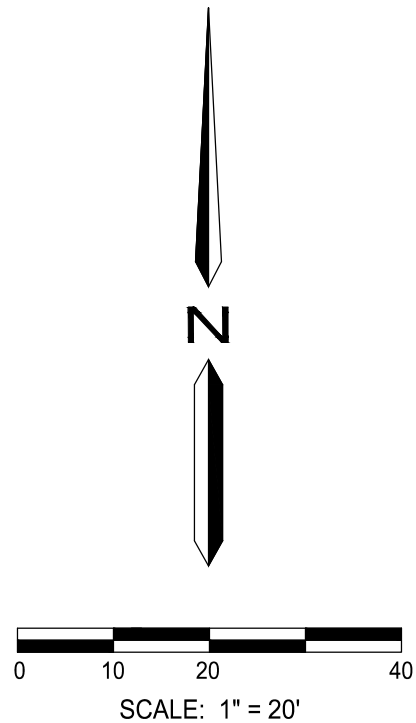
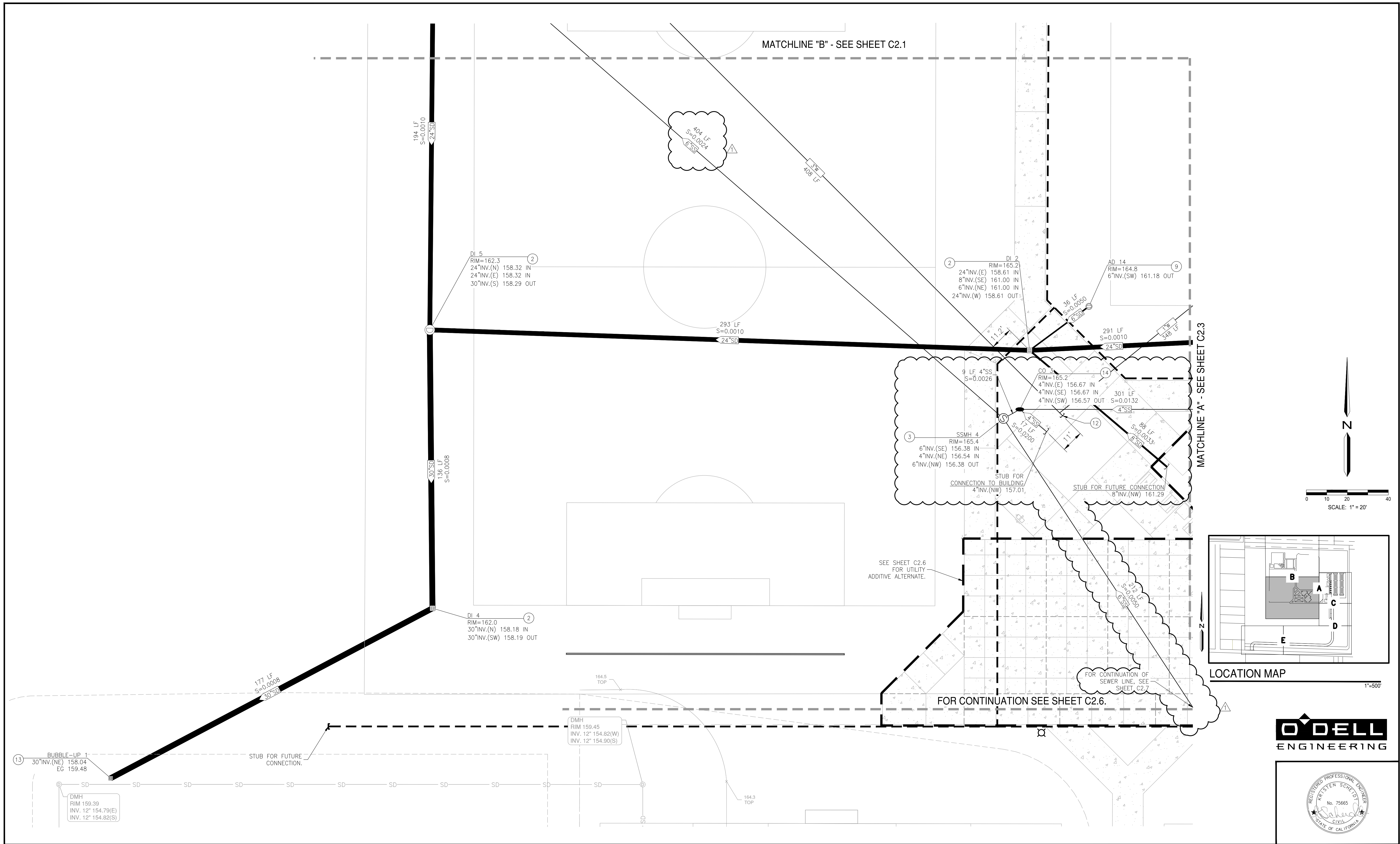
NOTE:
ALL REFERENCES SHALL TAKE PREFERENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED ON THE SITE. ANY DISCREPANCY SHALL BE BROUGHT TO NOTICE OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORK.

City of Merced
"Gateway to Yosemite"
ENGINEERING
ENGINEERING PROJECTS AND STANDARDS
678 W. 18th Street (209) 385-6846

UTILITY PLAN

PROJECT# 122061
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SUBMITTAL

DR. BY: TF / YC
DATE: 01/12/2023
CH. BY: SK/CK/JN
DATE: 01/12/2023
SCALE: AS SHOWN
File No. 40320-UP.DWG
Sheet
C2.1
22 of 75



LOCATION MAP
1"=50'



NO.	DATE	BY	REVISION MADE
1	8/16/23	AM	ADDED SCOPE AREA REVISION

Underground Service Alert

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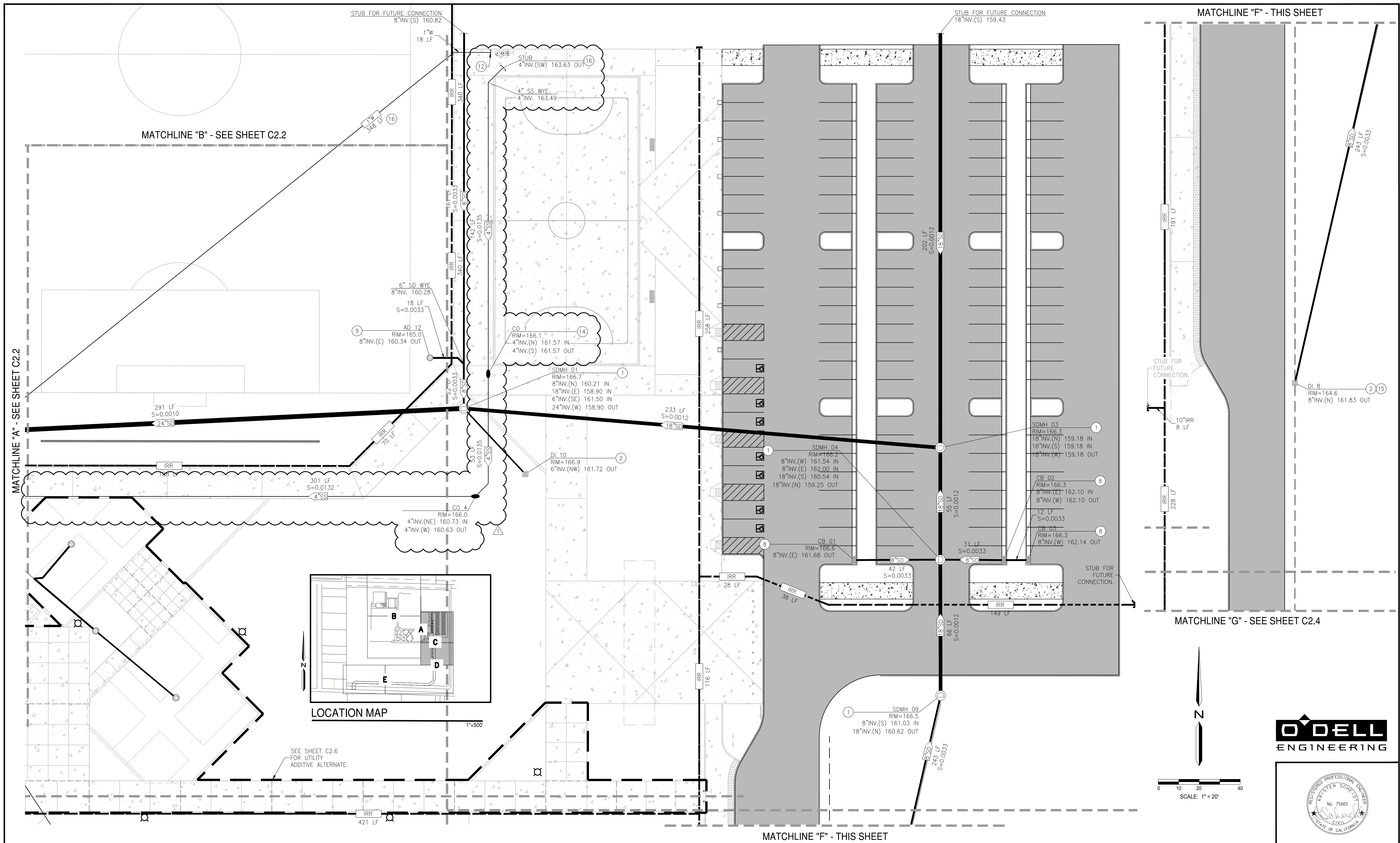
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UTILITY PLAN

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DATE: 01/12/2023
CH. BY: SK/CK/JN
DATE: 01/12/2023
SCALE: AS SHOWN

File No. 40320-UP.DWG
Sheet
C2.2
23 of 75



NO.	DATE	BY	REVISION MADE
1	8/16/23	AM	ADDED SCOPE AREA REVISION

Underground Service Alert

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UTILITY PLAN

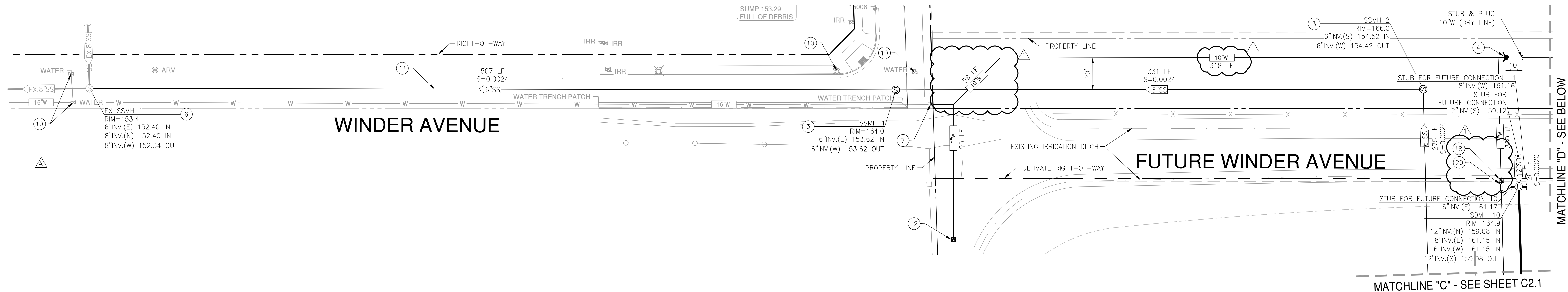
PROJECT# 122061
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DATE: 01/12/2023
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SCALE: AS SHOWN

File No. 40320-UP.DWG
Sheet
C2.3
24 of 75

COLLEEN AVENUE

BARROSO AVENUE

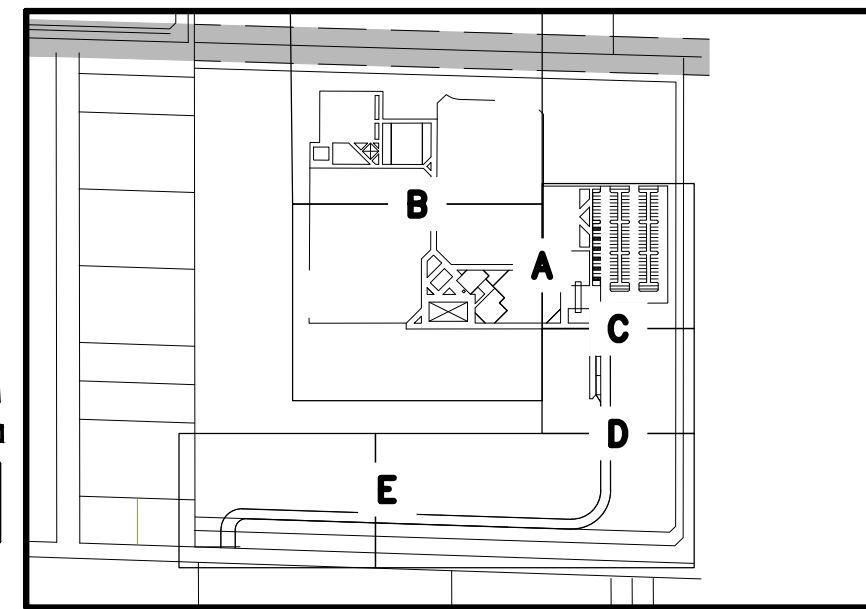
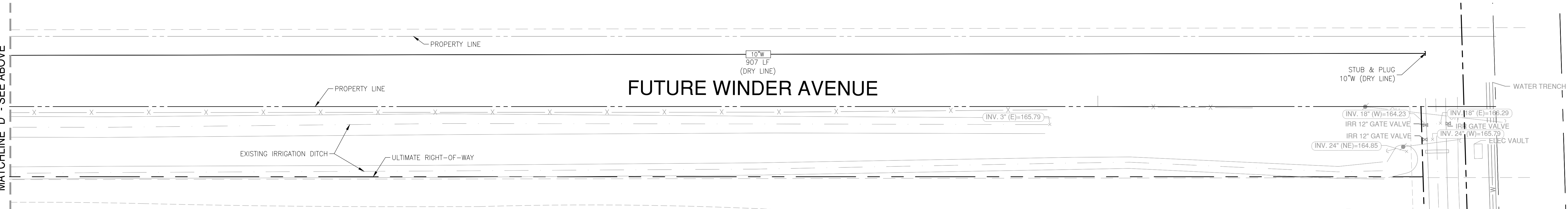


MATCHLINE "D" - SEE ABOVE

MATCHLINE "D" - SEE BELOW

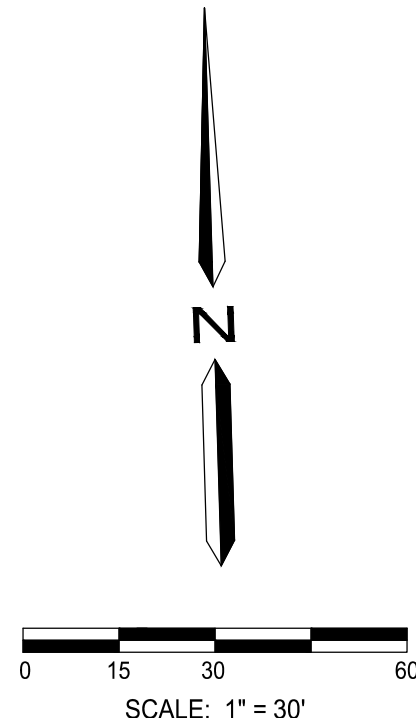
MATCHLINE "C" - SEE SHEET C2.1

TYLER ROAD



LOCATION MAP

1"=500'



O'DELL
ENGINEERING



NO.	DATE	BY	REVISION MADE
1	8/16/23	AM	ADDED SCOPE AREA REVISION

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"Gateway to Yosemite"

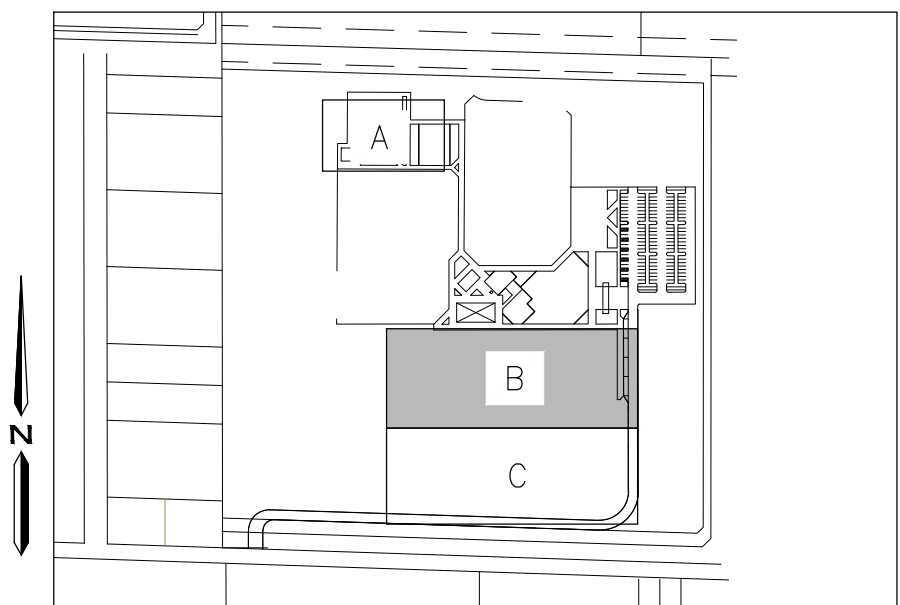
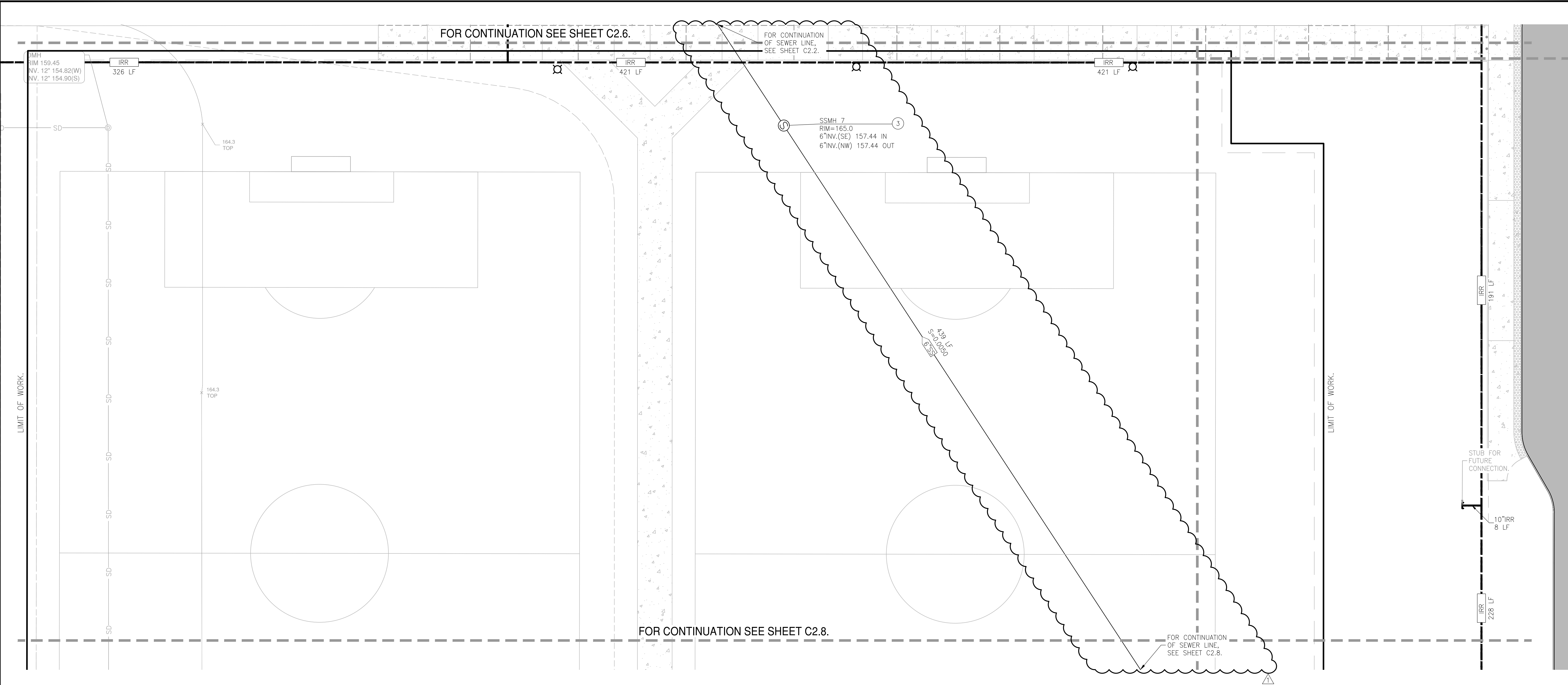
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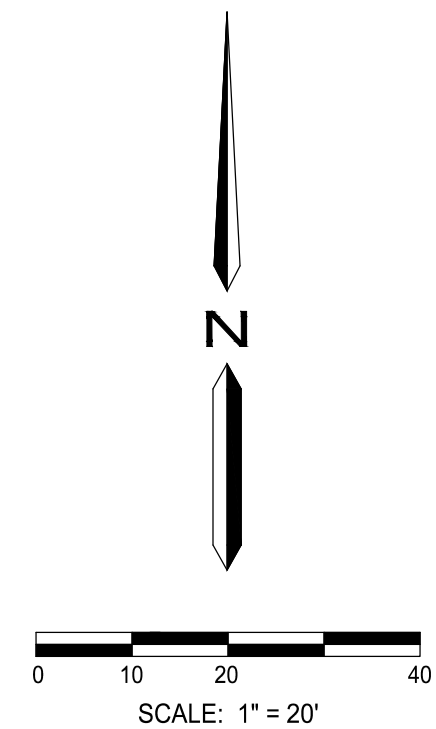
DR. BY: TF / YC
DATE: 01/12/2023
CH. BY: SK/CK/JN
DATE: 01/12/2023
SCALE: AS SHOWN

File No. 40320-UP.DWG
Sheet
C2.5
26 of 75



LOCATION MAP

1"=500'



O'DELL
ENGINEERING

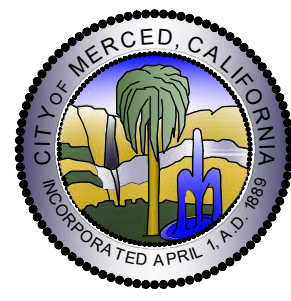


NO.	DATE	BY	REVISION MADE
1	8/16/23	AM	ADDED SCOPE AREA REVISION

Underground Service Alert

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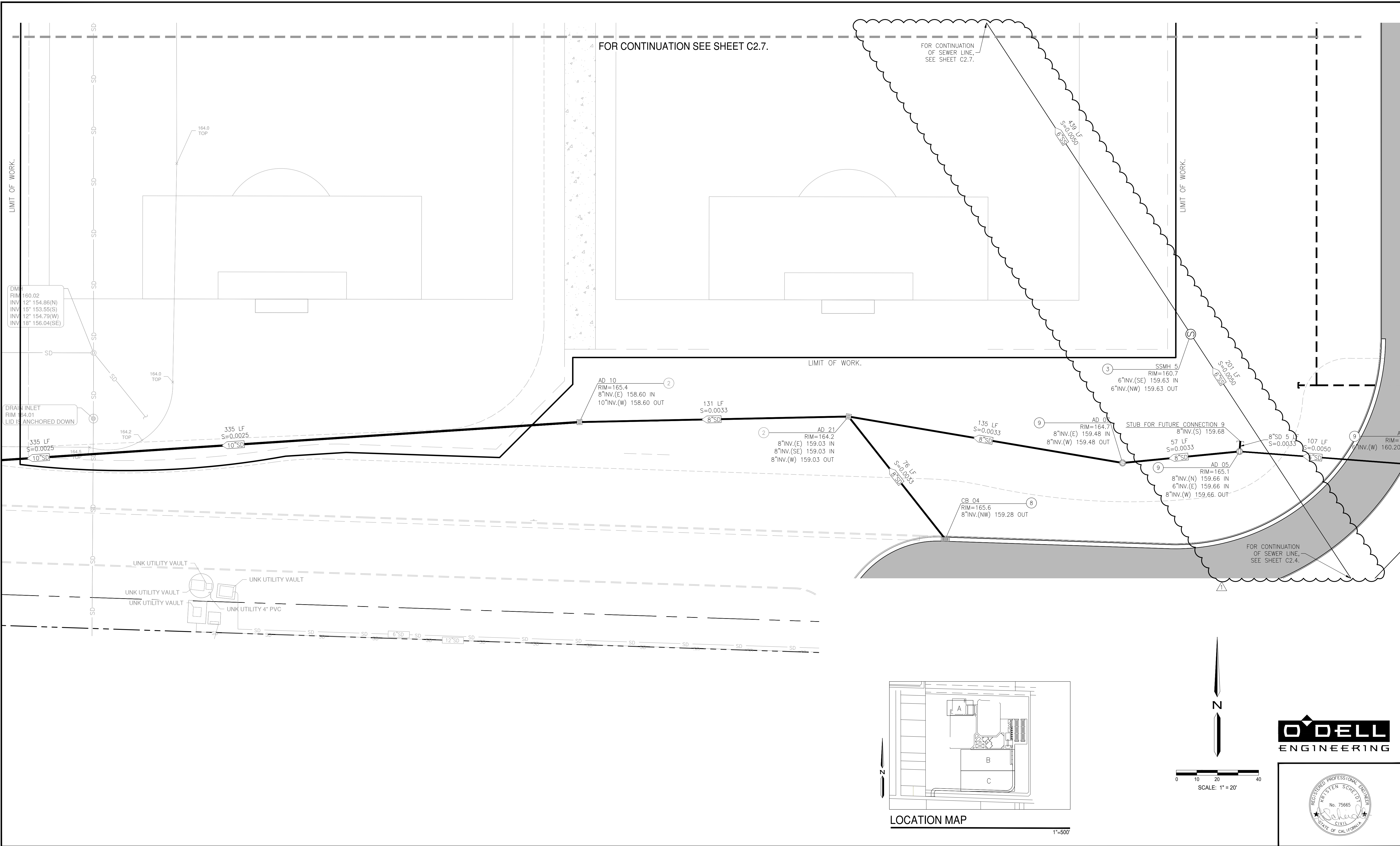
City of Merced
"Gateway to Yosemite"
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UTILITY PLAN

PROJECT# 122061
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SUBMITTAL

DR. BY: TF / YC
DATE: 01/12/2023
CH. BY: SK/CK/JN
DATE: 01/12/2023
SCALE: AS SHOWN

File No. 40320-UP.DWG
Sheet
C2.7
28 of 75



NO.	DATE	BY	REVISION MADE
1	8/16/23	AM	ADDED SCOPE AREA REVISION

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City of Merced
"Gateway to Yosemite"
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UTILITY PLAN

PROJECT# 122061
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SUBMITTAL

DR. BY: TF / YC
DATE: 01/12/2023
CH. BY: SK/CK/JN
DATE: 01/12/2023
SCALE: AS SHOWN

File No. 40320-UP.DWG
Sheet
C2.8
29 of 75

AMERICAN PAVING CO.

REQUEST FOR INFORMATION

RFI NO: 2

PROJECT: Community Park 42
AMERICAN PAVING CO. JOB NO. 21.2304

DATE: July 28, 2023

TO: City of Merced
CARE OF: Joe Cardoso
678 W 18th St
Merced, CA 95340
(209) 388-7508

FROM: American Paving Co.
Chris Williams
P.O. Box 27587
Fresno, CA 93729
(559) 268-9886

FILING: APC RFI# 002

ATTN: Joe Cardoso

POTENTIAL IMPACTS:

REF. SPECIFICATION:

Bid Item #24 - Sewer Manholes

DRAWING: C2.1, C2.2, C2.3, C2.4,
C2.5, C2.6

☒ SCHED ☐ LABOR
☒ MAT'L ☐ NO IMPACT
☐ OTHER

RFI SUBMITTED BY: Chris Williams

NEED REPLY BY: August 11, 2023

REQUEST: Bid Item # 24 - Sewer Manholes shows a quantity of 3 EA. When we preformed our take off, we found 6 EA shown on the plans. That's an additional 3 EA. Please verify quantities.

REPLY: Upon review of the bid documents, it was found that 4 manholes were unaccounted for. Line item 24 on bid schedule to be updated to 7 each.

FIRM: O'Dell Engineering

SIGNED: *Angel Mariscal*

DATE: 8/7/2023

CC:

☒ CLARIFICATION ONLY
☐ CHANGE IN CONTRACT
☐ ENGINEER CHANGE
☐ OTHER

AMERICAN PAVING CO.

REQUEST FOR INFORMATION

RFI NO: 5

PROJECT: Community Park 42
AMERICAN PAVING CO. JOB NO. 21.2304

DATE: July 28, 2023

TO: City of Merced
CARE OF: Joe Cardoso
678 W 18th St
Merced, CA 95340
(209) 388-7508

FROM: American Paving Co.
Chris Williams
P.O. Box 27587
Fresno, CA 93729
(559) 268-9886

FILING: APC RFI# 005

ATTN: Joe Cardoso

POTENTIAL IMPACTS:

REF. SPECIFICATION:

Bid Item #33 - 10" Water Line (Offsite)

DRAWING: C2.1, C2.2, C2.3, C2.4,
C2.5, C2.6

☒ SCHED ☐ LABOR
☒ MAT'L ☐ NO IMPACT
☐ OTHER

RFI SUBMITTED BY: Chris Williams

NEED REPLY BY: August 11, 2023

REQUEST: Bid Item # 33 - 10" Water Line (Offsite) shows a quantity of 1,780 LF. When we preformed our take off, we found 1,290 LF shown on the plans. That's 490 LF less than shown for the bid item. Please verify quantities.

REPLY: Upon review of the bid documents, there is 1,281 LF of 10" water line along Winder. See attached sheet C2.5 revision 2 for revised pipe sizes. Line item 22 on Bid Schedule A to be revised to 1,281 LF.

FIRM: O'Dell Engineering

SIGNED: *Angel Mariscal*

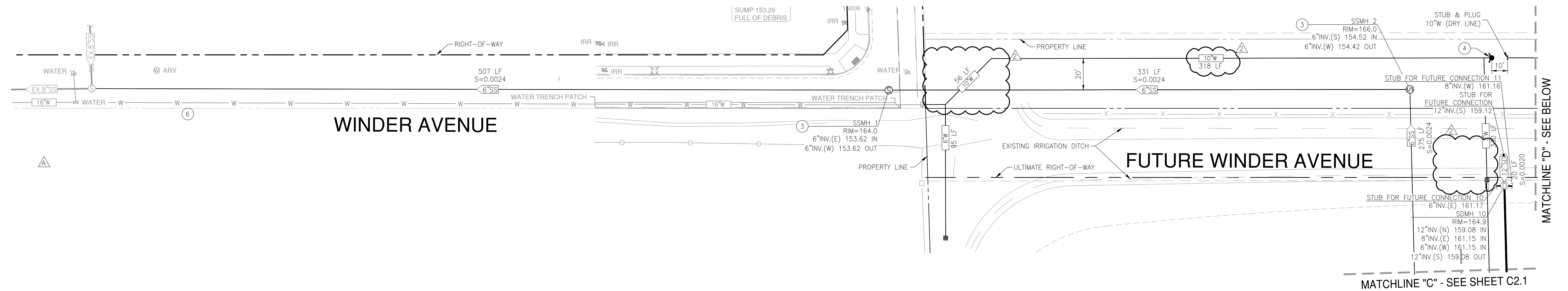
DATE: 8/7/2023

CC:

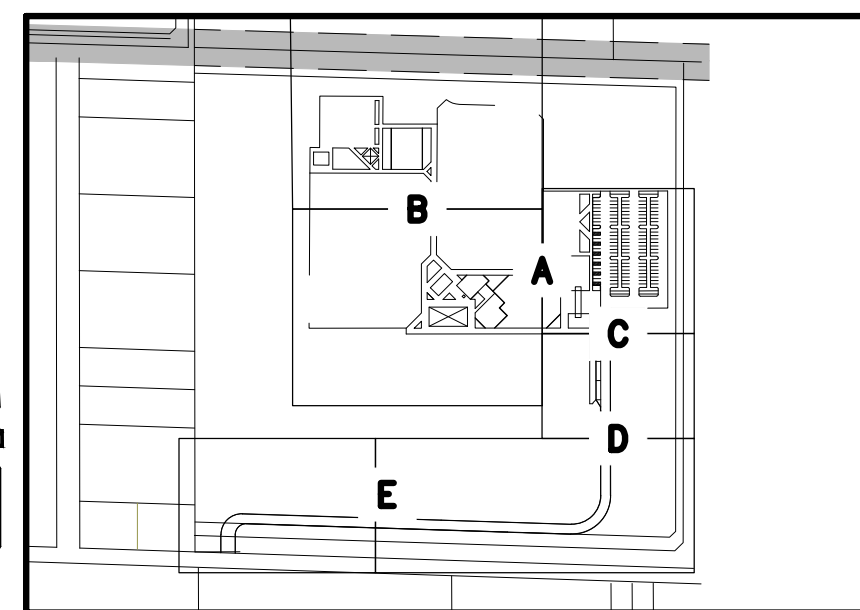
☒ CLARIFICATION ONLY
☐ CHANGE IN CONTRACT
☐ ENGINEER CHANGE
☐ OTHER

COLLEEN AVENUE

BARROSO AVENUE

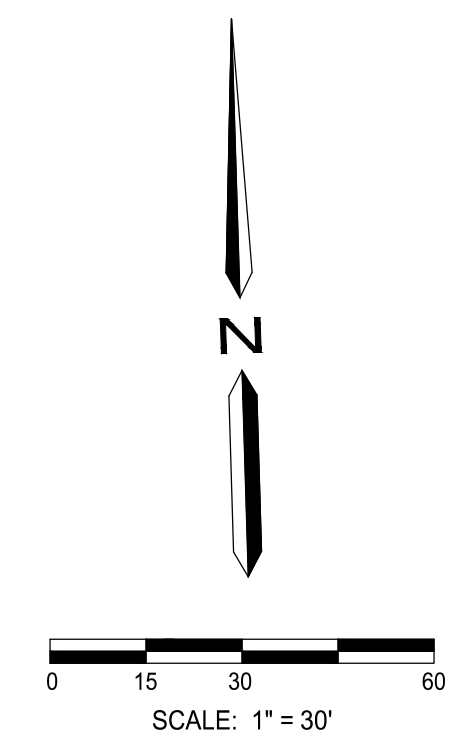


TYLER ROAD



LOCATION MAP

1"=500'



O'DELL
ENGINEERING



NO.	DATE	BY	REVISION MADE
1	2/3/23	KS	ADDENDUM #3
2	8/7/23	AM	METER & BACKFLOW REVISION

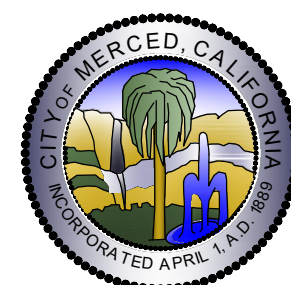
Underground Service Alert



**TWO DAYS
BEFORE
YOU DIG**

Call : TOLL FREE 1 (800) 227 - 2600

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DIMENSIONS SHALL TAKE
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TO NOTICE OF THE ENGINEER
PRIOR TO THE COMMENCEMENT
OF ANY WORK.



City of Merced
"Gateway to Yosemite"

ENGINEERING
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678 W. 18th Street (209) 385-6846

UTILITY PLAN

**PROJECT# 122061
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SUBMITTAL**

DR. BY: TF / YC	File No. 40320-UP.DWG
DATE: 01/12/2023	Sheet
CH. BY: SK/CK/JN	<div style="font-size: 48pt; font-weight: bold;">C2.5</div> <div style="font-size: 24pt; font-weight: bold;">26 of 75</div>
DATE: 01/12/2023	
SCALE: AS SHOWN	

315 North Thorne Avenue
PO Box 27587
Fresno, Ca 93729

American Paving Co.

Telephone: 559-268-9886
Fax: 559-268-2908

October 20, 2023

City of Merced
678 W. 18th Street
Merced, CA 95340

Attn: Joe Cardoso, PLS
Project: Community Park 42
Subject: PCO #4 - Polyolefin Credit REV 2

We are pleased to provide the following credit in response to APC RFI #15 Polyolefin deletion. We will credit all costs for labor, equipment, materials and incidentals to furnish and install the new polyolefin under concrete.

Item	Description	Quantity	U.M.	Unit Price	Total
1	Credit for deletion of Polyolefin under concrete – Base Bid & Change Order #1	1	LS	(\$41,900.00)	(\$41,900.00)
				Total	(\$41,900.00)

Should you have any questions, please do not hesitate to contact us at (559) 268-9886.

American Paving Co.

Chris Williams

Chris Williams
Project Engineer

315 North Thorne Avenue
PO Box 27587
Fresno, Ca 93729

American Paving Co.

Telephone: 559-268-9886
Fax: 559-268-2908

October 13, 2023

City of Merced
678 W. 18th Street
Merced, CA 95340

Attn: Joe Cardoso, PLS
Project: Community Park 42
Subject: PCO #5 – Relocate existing 6” & 12” force main due to new sewer conflict

We are pleased to provide the following proposal to relocate the existing 6” & 12” force main due to new sewer conflict. We will provide all costs for labor, equipment, materials and incidentals to furnish and relocate the existing 6” & 12” force main.

Item	Description	Quantity	U.M.	Unit Price	Total
1	Relocate existing 6” & 12” force main	1	LS	\$12,250.00	\$12,250.00
				Total	12,250.00

Should you have any questions, please do not hesitate to contact us at (559) 268-9886.

American Paving Co.

Chris Williams

Chris Williams
Project Engineer



Address
6931 Mariposa Way • Merced, CA 95341
Mailing Address
P.O. Box 2406 • Merced, CA 95344
Office: (209) 383-7473
Fax: (209) 383-7477
midcalpipeline@gmail.com

PCO#003-Relocate existing 6" & 12" Force Main Due to new sewer conflict

Job Name: Community Park 42

Job Address:

Job #:

Job Contact:

Date: 10/11/2023

Description of Work Performed	MCP Employee	Class	Hours	Rate	Total
PCO # 003 Relocate Existing 6" & 12" Force Main due to new sewer conflict	Laborer		8	90.63	\$ 725.04
	O.E.		8	121.81	\$ 974.48
	Laborer		8	85.85	\$ 686.80
	Laborer		8	85.85	\$ 686.80
					\$ -
					\$ -
					\$ -
					\$ -
Total Labor				\$	3,073.12

Quantity	Description	Rate	Per	Total
1 EA	Backhoe	\$ 300.00	Day	\$ 300.00
1 EA	Crew Trucks	\$ 250.00	Day	\$ 250.00
18	6 TJ CL150 PR350 DI Pipe	\$ 29.41	LF	\$ 529.38
4	6 MJ 45 C153 IMP	\$ 113.87	EA	\$ 455.48
8	6 SIGMA SLDEP6 ONE-LOK Rest/F/DI W/ACC IMP	\$ 63.08	EA	\$ 504.64
18	12 TJ PR350 DI Pipe	\$ 59.36	LF	\$ 1,068.48
4	12 MJ 45 C153 IMP	\$ 357.87	EA	\$ 1,431.48
8	12 SIGMA SLDEP12 One-LOK Rest F/DI W/ACC IMI	\$ 164.26	EA	\$ 1,314.08
Subtotal Materials & Equipment				\$ 5,853.54

Total Labor	\$	3,073.12
Total Materials & Equipment	\$	5,853.54
TAX		437.54
MCP Overhead & Profit 15%	\$	1,404.63
Total	\$	10,768.83



Bid Proposal for CROSSINGS - COMMUNITY PARK 42 - MERCED

MID CAL PIPELINE & UTILITIES

Job Location: MERCED, CA

Bid Date: 10/11/2023

Core & Main 3168765

Core & Main

5364 S. Villa Ave

Fresno, CA 93725

Phone: 559-834-1040

Seq#	Qty	Description	Units	Price	Ext Price
10		6" CROSSINGS			
20	18	6 TJ CL50 PR350 DI PIPE	FT	29.41	529.38
30	4	6 MJ 45 C153 IMP	EA	113.87	455.48
40	8	6 SIGMA SLDEP6 ONE-LOK REST F/DI W/ACC IMP	EA	63.08	504.64
		SUBTOTAL			1,489.50
50		12" CROSSINGS			
60	18	12 TJ PR350 DI PIPE	FT	59.36	1,068.48
70	4	12 MJ 45 C153 IMP	EA	357.87	1,431.48
80	8	12 SIGMA SLDEP12 ONE-LOK REST F/DI W/ACC IMP	EA	164.26	1,314.08
		SUBTOTAL			3,814.04
		Sub Total			5,303.54
		Tax			437.54
		Total			5,741.08

UNLESS OTHERWISE SPECIFIED HEREIN, PRICES QUOTED ARE VALID IF ACCEPTED BY CUSTOMER AND PRODUCTS ARE RELEASED BY CUSTOMER FOR MANUFACTURE WITHIN THIRTY (30) CALENDAR DAYS FROM THE DATE OF THIS QUOTATION. CORE & MAIN LP RESERVES THE RIGHT TO INCREASE PRICES TO ADDRESS FACTORS, INCLUDING BUT NOT LIMITED TO, GOVERNMENT REGULATIONS, TARIFFS, TRANSPORTATION, FUEL AND RAW MATERIAL COSTS. DELIVERY WILL COMMENCE BASED UPON MANUFACTURER LEAD TIMES. ANY MATERIAL DELIVERIES DELAYED BEYOND MANUFACTURER LEAD TIMES MAY BE SUBJECT TO PRICE INCREASES AND/OR APPLICABLE STORAGE FEES. THIS BID PROPOSAL IS CONTINGENT UPON BUYER'S ACCEPTANCE OF SELLER'S TERMS AND CONDITIONS OF SALE, AS MODIFIED FROM TIME TO TIME, WHICH CAN BE FOUND AT: <https://coreandmain.com/TandC/>

BID ITEM DESCRIPTIONS

BID ITEM DESCRIPTIONS

The descriptions below are general descriptions and do not include estimated quantities. See plans and bid summary for estimated quantities. Estimated quantities are provided as a courtesy only. Actual numbers and quantities of symbols on plans prevail.

Bid Item 1 - Surveying Services:

The lump sum bid for this item shall include all labor, materials, tools, equipment, and all work necessary for the completion of this item.

Bid Item 2 - Soil Import:

The lump sum bid for this item shall include all costs for soil import per landscape and civil plans. The item also includes labor, materials and all other work required by the Drawings and Specifications which is not specifically set forth in the Bid Form as a pay item.

Bid Item 3 - Site Grading (Rough/Fine):

The square footage bid for this item shall include all costs for rough grading, fine grading, and if needed, soil removal and disposal. The item also includes labor, materials and all other work required by the Drawings and Specifications which is not specifically set forth in the Bid Form as a pay item.

Bid Item 4 -12" Storm Drain Line:

The linear footage price bid for this item shall include all costs for purchase and installation of fully functional storm water drainage systems structures, solid and perforated piping, fittings and components, as indicated on the Drawings. The item also includes labor, materials and all other work required by the Drawings and Specifications which is not specifically set forth in the Bid Form as a pay item.

Bid Item 5 -Storm Drain Area Drains:

The unit price bid for this item shall include all costs for purchase and installation of fully functional storm water drainage system inlet structures, and related components, as indicated on the Drawings as well as finish grading of landscape areas to meet rim and invert elevations. The item also includes labor, materials and all other work required by the Drawings and Specifications which is not specifically set forth in the Bid Form as a pay item.

Bid Item 6 -Connect to Existing Storm Sewer

The unit price bid for this item shall include all costs for purchase, line trenching, placement, backfill, and connection to existing storm sewer as indicated on the Drawings. The item also includes labor, materials and all other work required by the Drawings and Specifications which is not specifically set forth in the Bid form as a pay item.

Bid Item 7 -Electrical:

The lump sum price bid for this item shall include all costs for purchase and installation of a fully functional electrical power and lighting system, including switchboard, panels, transformers, grounding, conduits, pullboxes, conductors, light fixtures (including poles), devices and equipment as indicated on the Drawings and Specifications within Division 26. For light poles and structures listed as bid alternate within this contract, the bidder shall provide a N16 pullbox at the termination point/location as part of base bid. This item also includes labor, materials and all other work required by the Drawings and Specifications which is not specifically set forth in the Bid Form as a pay item.

Bid Item 8 - Concrete Flatwork (Site Finish 'A'):

The square foot price bid for this item shall include all costs for installation, soil preparation forming, sub-grade compaction, concrete additives, pigments and sealers, pouring concrete pavement, finishing, joints, and joint sealants in the areas indicated on the Drawings. The item also includes labor, materials and all other work required by the Drawings and Specifications which is not specifically set forth in the Bid Form as a pay item.

Bid Item 9 - Plexipave Surfacing Basketball Court Field (Site Finish 'J'):

The square footage price bid for this item shall include all costs for purchase, installation and preparation of Plexipave court including surfacing and the flatwork in the areas indicated on the Drawings. The item also includes labor, materials and all other work required by the Drawings and Specifications which is not specifically set forth in the Bid Form as a pay item.

Bid Item 10 - Plexipave Surfacing Basketball Court Striping (Site Finish 'K'):

The linear footage price bid for this item shall include all costs for purchase, installation and preparation of Plexipave court striping included on the surfacing in the areas indicated on the Drawings. The item also includes labor, materials and all other work required by the Drawings and Specifications which is not specifically set forth in the Bid Form as a pay item.

Bid Item 11 - Plexipave Surfacing Basketball Court Perimeter (Site Finish 'L'):

The square footage price bid for this item shall include all costs for purchase, installation and preparation of Plexipave court including surfacing and the flatwork in the areas indicated on the Drawings. The item also includes labor, materials and all other work required by the Drawings and Specifications which is not specifically set forth in the Bid Form as a pay item.

Bid Item 12 - 2x4 Header at Limit of Work (Site Feature '50'):

The linear footage price bid for this item shall include all costs for purchase, installation, and preparation of header in the areas indicated on the Drawings. The item also includes labor, materials and all other work required by the Drawings and Specifications which is not specifically set forth in the Bid Form as a pay item.

Bid Item 13 - Basketball Poles, Backboard, and Rim (Site Feature '59'):

The unit price bid for this item shall include all costs for purchase and installation of a Basketball pole, backboard, rim, and footings as indicated on the Drawings. The item also includes labor, materials and all other work required by the Drawings and Specifications which is not specifically set forth in the Bid Form as a pay item.

Bid Item 31 - Irrigation System:

The lump sum price bid for this item shall include all costs for purchase and installation of irrigation pipe, equipment, heads, bubblers, wires, remote control valves, sensors, backflow preventer, fittings, and all other miscellaneous irrigation components for a fully functioning irrigation system as indicated on the Drawings and Specifications as required in the field. The item also includes labor, materials and all other work required by the Drawings and Specifications which is not specifically set forth in the Bid Form as a pay item.

END OF SECTION

SHEET INDEX - IMPROVEMENT PLANS

GENERAL INFORMATION		
CS	COVER SHEET	
TOPOGRAPHIC SURVEY PLANS		
V1.0	TOPOGRAPHIC & BOUNDARY SURVEY	
V1.1	TOPOGRAPHIC & BOUNDARY SURVEY	
V1.2	TOPOGRAPHIC & BOUNDARY SURVEY	
V1.3	TOPOGRAPHIC & BOUNDARY SURVEY	
V1.4	TOPOGRAPHIC & BOUNDARY SURVEY	
V1.5	TOPOGRAPHIC & BOUNDARY SURVEY	
V1.6	TOPOGRAPHIC & BOUNDARY SURVEY	
CIVIL IMPROVEMENT PLANS		
C1.0	GRADING PLAN	
C1.1	GRADING PLAN	
C1.2	GRADING PLAN	
C1.3	GRADING PLAN	
C1.4	GRADING PLAN	
C1.5	GRADING PLAN - ADDITIVE ALTERNATE	
C1.6	GRADING PLAN - ADDITIVE ALTERNATE	
C1.7	GRADING PLAN - NOT IN USE	
C1.8	GRADING PLAN - NOT IN USE	
C1.9	GRADING PLAN	
C1.10	GRADING PLAN	
C1.11	GRADING PLAN	
C2.0	UTILITY PLAN	
C2.1	UTILITY PLAN	
C2.2	UTILITY PLAN	
C2.3	UTILITY PLAN	
C2.4	UTILITY PLAN	
C2.5	UTILITY PLAN	
C2.6	UTILITY PLAN - ADDITIVE ALTERNATE	
C2.7	UTILITY PLAN - NOT IN USE	
C2.8	UTILITY PLAN - NOT IN USE	
C2.9	UTILITY PLAN	
C2.10	UTILITY PLAN	
C2.11	UTILITY PLAN	
LANDSCAPE IMPROVEMENT PLANS		
L1.0	SITE FEATURES AND FINISHES LEGEND AND NOTES	
L1.1	SITE FEATURES AND FINISHES PLAN	
L1.2	SITE FEATURES AND FINISHES PLAN	
L1.3	SITE FEATURES AND FINISHES PLAN	
L1.4	SITE FEATURES AND FINISHES PLAN	
L1.5	SITE FEATURES AND FINISHES PLAN - ADDITIVE ALTERNATE #1	
L1.6	SITE FEATURES AND FINISHES PLAN - ADDITIVE ALTERNATE #1	
L1.7	SITE FEATURES AND FINISHES PLAN - ADDITIVE ALTERNATES #2 & #3	
L1.8	SITE FEATURES AND FINISHES PLAN - ADDITIVE ALTERNATE #4	
L1.9	SITE FEATURES AND FINISHES PLAN	
L1.10	SITE FEATURES AND FINISHES PLAN	
L1.11	SITE FEATURES AND FINISHES PLAN	
L2.0	HORIZONTAL CONTROL PLAN	
L2.1	HORIZONTAL CONTROL PLAN	
L2.2	HORIZONTAL CONTROL PLAN	
L2.3	HORIZONTAL CONTROL PLAN	
L2.4	HORIZONTAL CONTROL PLAN - ADDITIVE ALTERNATE #1	
L2.5	HORIZONTAL CONTROL PLAN - ADDITIVE ALTERNATE #1	

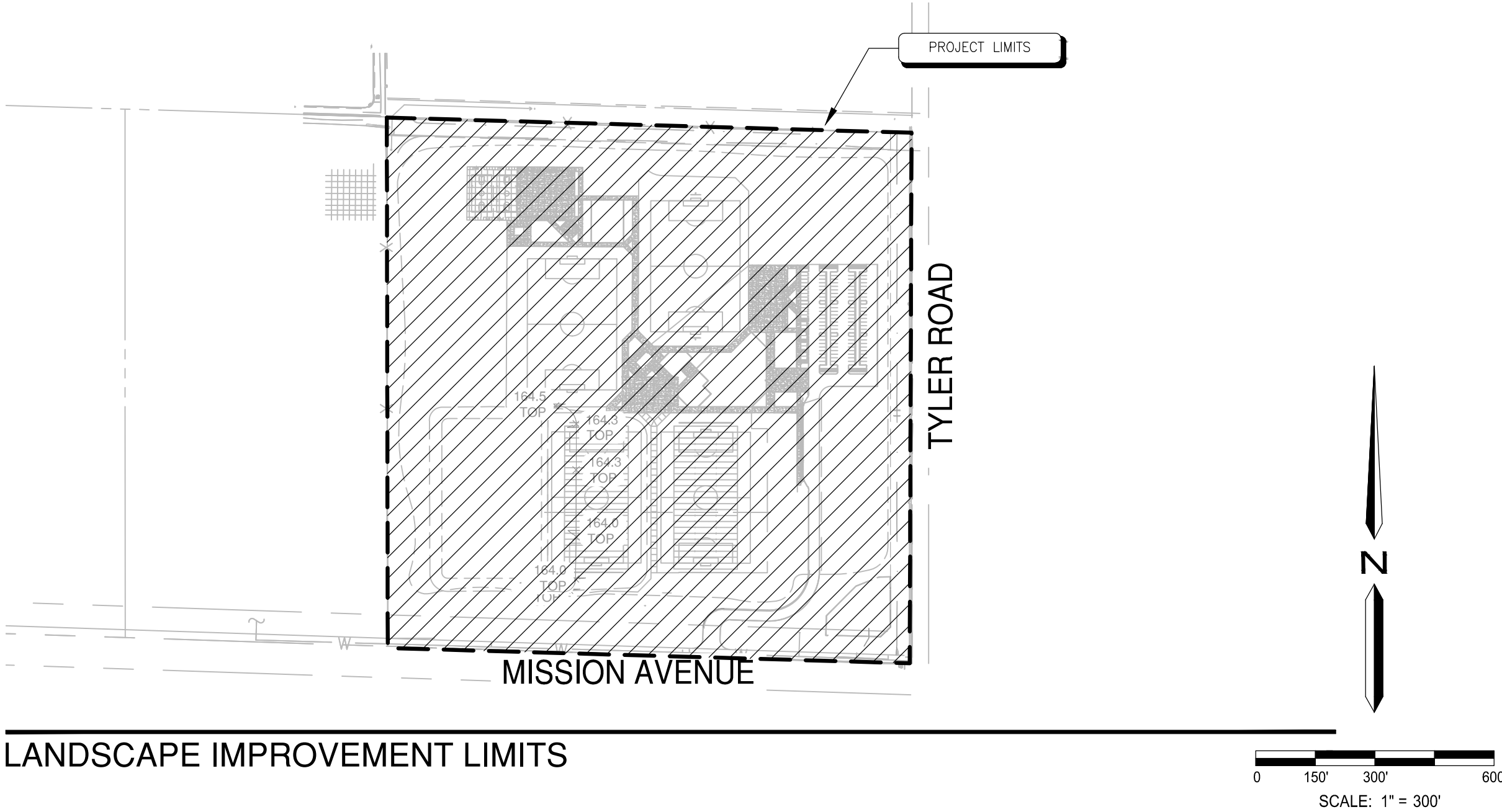
L2.6	HORIZONTAL CONTROL PLAN - ADDITIVE ALTERNATE #1
L2.7	HORIZONTAL CONTROL PLAN - ADDITIVE ALTERNATE #2 & #3
L2.8	HORIZONTAL CONTROL PLAN - ADDITIVE ALTERNATE #4
L2.9	HORIZONTAL CONTROL PLAN
L2.10	HORIZONTAL CONTROL PLAN
L2.11	HORIZONTAL CONTROL PLAN
L3.0	IRRIGATION LEGEND AND NOTES
L3.1	IRRIGATION PLAN
L3.2	IRRIGATION PLAN
L3.3	IRRIGATION PLAN
L3.4	IRRIGATION PLAN
L3.5	IRRIGATION PLAN - ADDITIVE ALTERNATE #1
L3.6	IRRIGATION PLAN
L3.7	IRRIGATION PLAN
L3.8	IRRIGATION PLAN
L4.0	PLANTING LEGEND AND NOTES
L4.1	PLANTING PLAN
L4.2	PLANTING PLAN
L4.3	PLANTING PLAN
L4.4	PLANTING PLAN
L4.5	PLANTING PLAN - ADDITIVE ALTERNATE #1
L4.6	PLANTING PLAN
L4.7	PLANTING PLAN
L4.8	PLANTING PLAN
L5.0	CONSTRUCTION DETAILS
L5.1	CONSTRUCTION DETAILS
L5.2	CONSTRUCTION DETAILS
L5.3	CONSTRUCTION DETAILS
L5.4	CONSTRUCTION DETAILS
L5.5	CONSTRUCTION DETAILS
L5.6	CONSTRUCTION DETAILS
L5.7	CONSTRUCTION DETAILS
L5.8	CONSTRUCTION DETAILS
L5.9	CONSTRUCTION DETAILS
L5.10	CONSTRUCTION DETAILS
L6.0	IRRIGATION DETAILS
L6.1	IRRIGATION DETAILS
L7.0	PLANTING DETAILS
ELECTRICAL IMPROVEMENT PLANS	
E0.1	GENERAL NOTES AND ABBREVIATIONS
E1.0	CONDUIT AND LIGHTING SCHEDULES
E1.1	AREA A - PARTIAL ELECTRICAL PLAN
E1.2	AREA B - PARTIAL ELECTRICAL PLAN
E1.3	AREA C - PARTIAL ELECTRICAL PLAN
E1.4	AREA D - PARTIAL ELECTRICAL PLAN
E3.1	PARTIAL PLOT PLANS
E3.2	PARTIAL SITE PLAN - ELECTRICAL YARD
E4.1	DETAILS
E5.1	PANEL SCHEDULES AND SINGLE LINE DIAGRAM

COMMUNITY PARK-42

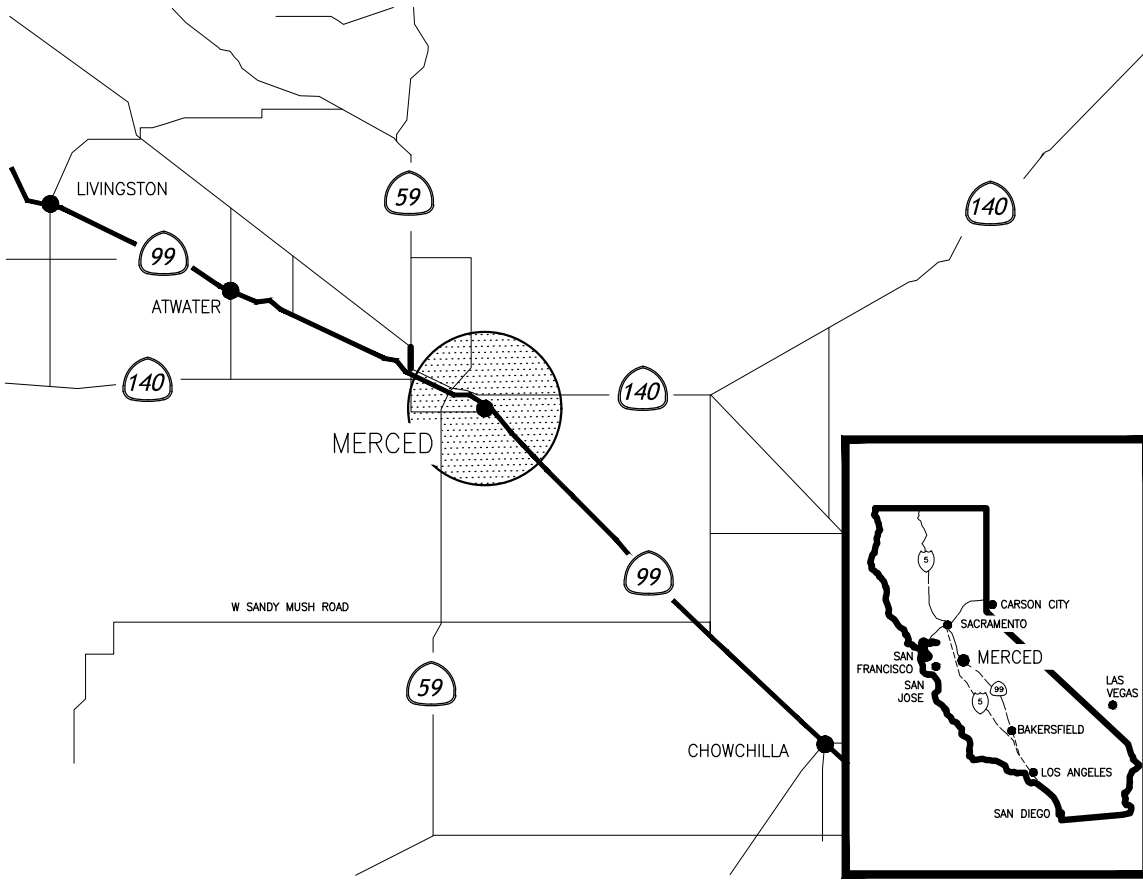
LANDSCAPE IMPROVEMENT PLANS

MERCED, CALIFORNIA

CITY OF MERCED



LANDSCAPE IMPROVEMENT LIMITS



VICINITY MAP

N.T.S.

GENERAL NOTES

- LANDSCAPE IMPROVEMENTS SHALL BE CONSTRUCTED IN COMPLIANCE WITH CITY OF MERCED, CALIFORNIA CURRENT STANDARDS AND SPECIFICATIONS AS APPROVED, INCLUDING ALL AMENDMENTS THERETO. IMPROVEMENTS SHALL ALSO BE IN COMPLIANCE WITH CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS LATEST EDITION, WHERE APPLICABLE. IN THE EVENT THERE IS A CONFLICT WITH THE PLANS AND REFERENCES STATED ABOVE, THE GOVERNING BODY STANDARDS AND SPECIFICATIONS SHALL PREVAIL. ALL WORK SHALL BE SUBJECT TO INSPECTION.
 - DESIGN: THE DRAWINGS HEREIN REPRESENT THE DESIGN TO BE IMPLEMENTED ON THE SITE DEPICTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LANDSCAPE ARCHITECT TO CLARIFY PLAN DETAILS RELATED TO SITE OR CONSTRUCTION DETAILS NECESSARY FOR PROJECT COMPLETION.
 - COORDINATION: CONTRACTORS SHALL COORDINATE INSTALLATION AND SCHEDULING WITH THAT OF OWNER/OWNER REPRESENTATIVE AND OTHER CONTRACTORS EFFICIENTLY AND IN A TIMELY MANNER, ENSURING THE PROJECT COMPLETION IS UNIMPEDED AND INSTALLED CORRECTLY WITH MINIMAL MAINTENANCE. OWNER/OWNER REPRESENTATIVE SHALL BE CONTACTED DIRECTLY AT LEAST TWO WORKING DAYS (48 HOURS) PRIOR TO COVERING, COMPLETION, OR EXPOSING WORK THAT WILL BE INSTALLED.
 - SITE CONDITIONS: SEE GENERAL PROVISIONS, SPECIAL PROVISIONS, GENERAL REQUIREMENTS, AND TECHNICAL SPECIFICATIONS FOR CONTRACTOR RESPONSIBILITIES RELATED TO SITE CONDITIONS. CONTRACTOR SHALL EXAMINE EXISTING CONDITIONS OF SITE. IN THE EVENT THAT ON-SITE CONDITIONS DIFFER FROM CONDITIONS DEPICTED ON PLANS AND WILL IMPACT THE INSTALLATION PROCESS, THE CONTRACTOR SHALL SUBMIT THESE FINDINGS TO THE LANDSCAPE ARCHITECT/OWNER IN WRITING PRIOR TO BEGINNING WORK. CONTRACTOR SHALL CONFIRM ALL POINTS OF CONNECTIONS PRIOR TO CONSTRUCTION. COMMENCEMENT OF WORK IMPLIES ACCEPTANCE OF THE EXISTING SITE CONDITIONS.
 - BASE INFORMATION: THE PROPOSED LANDSCAPE IMPROVEMENTS SHOWN HEREIN ARE SUPERIMPOSED OVER DATA PROVIDED TO THE LANDSCAPE ARCHITECT BY OTHER SOURCES. THE LANDSCAPE ARCHITECT SHALL NOT BE HELD LIABLE FOR THE CHANCES, INACCURACIES, OMISSIONS, OR OTHER ERRORS RELATED TO THIS DATA. THE BASE INFORMATION IS PROVIDED AS AN AID ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL DOCUMENTS AND ACCOMMODATING ANY DISCREPANCIES.
- BASE INFORMATION PROVIDED BY:
TOPOGRAPHICAL SURVEY
• O'DELL ENGINEERING
1165 SCENIC DRIVE, SUITE A
MODESTO, CA 95350
PHONE: (209) 571-1765
FAX: 40320-TP
- BIDDING INFORMATION: SEE GENERAL PROVISIONS, SPECIAL PROVISIONS, GENERAL REQUIREMENTS, AND TECHNICAL SPECIFICATIONS FOR CONTRACTOR RESPONSIBILITIES RELATED TO BIDDING INFORMATION AND SITE VISITS PRIOR TO BID SUBMITTAL.
 - PRE-CONSTRUCTION MEETING: THE CONTRACTOR SHALL OBTAIN A GRADING PERMIT/BUILDING PERMIT, FROM THE CITY OF MERCED, CALIFORNIA BUILDING DEPARTMENT, PRIOR TO SCHEDULING A PRE-CONSTRUCTION MEETING OR OBTAINING AN ENCROACHMENT PERMIT. A PRE-CONSTRUCTION MEETING SHALL BE COORDINATED WITH THE APPROPRIATE REGULATORY BODY PRIOR TO BEGINNING WORK. APPLICABLE AGENCIES AND PARTIES SHALL BE NOTIFIED AT LEAST 3 WORKING DAYS (72 HOURS) IN ADVANCE OF THE PRE-CONSTRUCTION MEETING.
 - UTILITIES: THE CONTRACTOR AND ANY SUBCONTRACTORS SHALL CONTACT U.S.A. AT LEAST TWO WORKING DAYS (48 HOURS) PRIOR TO BEGINNING WORK.
 - POT HOLING: ONLY EXCAVATION WILL REVEAL ACTUAL TYPES, LOCATIONS, SIZES, AND DEPTHS OF UNDERGROUND UTILITIES. THE LANDSCAPE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF UNDERGROUND UTILITIES OR OF BURIED EXISTING OBJECTS AND UTILITIES NOT SHOWN ON THESE PLANS.
 - AS-BUILTS: FOR AS-BUILT PURPOSES, THE CONTRACTOR SHALL KEEP A CURRENT SET OF DRAWINGS ON SITE AT ALL TIMES WITH DEVIATIONS FROM ORIGINAL PLANS AND SPECIFICATIONS NOTED. UPON PROJECT COMPLETION THE CONTRACTOR SHALL PROVIDE THE CITY WITH A DIGITAL FORMAT, COMPLETE SET OF AS-BUILT DRAWINGS.

PROJECT INFORMATION

PROJECT TITLE:	COMMUNITY PARK-42	PROJECT TYPE:	NEW CONSTRUCTION/PUBLIC
PARCEL NUMBER:	SEE CIVIL PLANS FOR PARCEL NUMBERS	GRADING PLANS:	SEE CIVIL ENGINEERING PLANS
ZONING:	SEE CIVIL PLANS	BUILDING ELEVATIONS:	N/A
PROJECT ADDRESS:	TYLER ROAD & MISSION AVENUE MERCED, CA, 95341	WATER SUPPLY TYPE & LOCAL PURVEYOR:	POTABLE/CITY OF MERCED
APPLICANT/OWNER:	CITY OF MERCED 678 W. 18TH STREET MERCED, CA, 95341 (209) 385-6846 EMAIL: TFAY@ODELLENGINEERING.COM	COMMUNITY FORESTRY N/A DEPT. CONTACT:	
PLANS PREPARED BY:	O'DELL ENGINEERING 1165 SCENIC DRIVE, SUITE A MODESTO, CA 95350 (209) 571-1765 OFFICE EMAIL: TFAY@ODELLENGINEERING.COM	ADJACENT PROPERTY USES:	NORTH - AGRICULTURAL FIELDS SOUTH - AGRICULTURAL/RESIDENTIAL EAST - AGRICULTURAL FIELDS WEST - RESIDENTIAL
LICENSE NUMBER:	CLA #6049	UTILITY PLANS:	SEE CIVIL ENGINEERING PLANS
LANDSCAPE AREA:	296,124 SQUARE FEET - BASE BID 226,609 SQUARE FEET - ADDED SCOPE AREA	SOIL REPORT:	NOTES: SOIL AMENDMENTS IN THE GENERAL PLANTING NOTES ARE FOR BID PURPOSES ONLY, ACTUAL AMENDMENTS SHALL REFLECT THE RECOMMENDATIONS OF THE REPORT ONCE FINAL MASS GRADING HAS BEEN PERFORMED AND SAMPLES HAVE BEEN SUBMITTED TO SOILS LAB.

ABBREVIATIONS

BC	BOTTOM OF CURB	HP	HIGH POINT
BW	BOTTOM OF WALL	INV	INVERT ELEVATION
BOW	BACK OF WALL	MAX	MAXIMUM
CJ	TOOLED CONTROL JOINT	MIN	MINIMUM
CL	CENTERLINE	(N)	NEW
CLR	CLEAR	OC	ON CENTER
CIP	CAST IN PLACE	PA	PLANTING AREA
CMU	CONCRETE MASONRY UNIT	PIP	POURED IN PLACE CONCRETE
C	CONCRETE	POB	POINT OF BEGINNING
DG	DECOMPOSED GRANITE	R	RADIUS
DWGS	DRAWINGS	RIM	RIM ELEVATION
(E) OR EX	EXISTING	RP	RADIUS POINT
EJ	EXPANSION JOINT	SCD	SEE CIVIL DRAWINGS
EQ	EQUAL	SED	SEE ELECTRICAL DRAWINGS
EW	EACH WAY	SIM	SIMILAR
FC	FACE OF CURB	SLD	SEE LANDSCAPE DRAWINGS
FDE	FINISH DECK ELEVATIONS	SP	SPACE
FF/FFE	FINISH FLOOR ELEVATION	TBD	TO BE DETERMINED
FG	FINISH GRADE	TC	TOP OF CURB
FL	FLOW LINE	TP	TOP OF PAVEMENT
FOB	FACE OF BUILDING	TW	TOP OF WALL
FOW	FACE OF WALL	TYP	TYPICAL
FS	FINISH SURFACE		
FV	FIELD VERIFY		

CITY OF MERCED DEFERRED SUBMITTALS

- PLAYGROUND EQUIPMENT
- SHADE STRUCTURES
- RESTROOM BUILDING
- CONCESSIONS AND RESTROOM BUILDING
- CHAIN LINK FENCE/GATE FOOTINGS
- TUBULAR STEEL FENCE/GATE FOOTINGS
- LIGHT FIXTURE FOOTINGS
- BASKETBALL POLE FOOTING

NO.	DATE	BY	REVISION MADE
1	6/16/23	TF	ADDED SCOPE AREA REVISIONS

Underground Service Alert

TWO DAYS BEFORE YOU DIG

Call : TOLL FREE 1 (800) 227 - 2600

NOTE: ALL REFERENCES AND WRITTEN DIMENSIONS SHALL TAKE PREFERENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED ON THE SITE. ANY DISCREPANCY SHALL BE BROUGHT TO NOTICE OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORK.

City of Merced

"Gateway to Yosemite"

ENGINEERING

ENGINEERING PROJECTS AND STANDARDS
678 W. 18th Street (209) 385-6846

COVER SHEET

PROJECT# 122061

LANDSCAPE IMPROVEMENT PLANS

COMMUNITY PARK-42

BID SUBMITTAL

DR. BY: TF / YC
DATE: 01/12/2023
CH. BY: SK/CK/JN
DATE: 01/12/2023
SCALE: AS SHOWN

File No. 40320-CS.DWG
Sheet
CS
1 of 75

NOT IN USE



ADDITIONAL SCOPE
BID DOCUMENTS

NO.	DATE	BY	REVISION MADE
1	6/16/23	AM	ADDED SCOPE AREA REVISIONS



Underground Service Alert
TWO DAYS BEFORE YOU DIG
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City of Merced
"Gateway to Yosemite"
ENGINEERING
ENGINEERING PROJECTS AND STANDARDS
678 W. 18th Street (209) 385-6846

GRADING PLAN - NOT IN USE

**PROJECT# 122061
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SUBMITTAL**

DR. BY: TF / YC
DATE: 01/12/2023
CH. BY: SK/CK/JN
DATE: 01/12/2023
SCALE: AS SHOWN

File No. 40320-GP.DWG

Sheet

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16 of 75

NOT IN USE



ADDITIONAL SCOPE
BID DOCUMENTS

NO.	DATE	BY	REVISION MADE
1	6/16/23	AM	ADDED SCOPE AREA REVISIONS



Underground Service Alert
TWO DAYS BEFORE YOU DIG
Call : TOLL FREE 1 (800) 227 - 2600

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL TAKE PREFERENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED ON THE SITE. ANY DISCREPANCY SHALL BE BROUGHT TO NOTICE OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORK.



City of Merced
"Gateway to Yosemite"
ENGINEERING
ENGINEERING PROJECTS AND STANDARDS
678 W. 18th Street (209) 385-6846

GRADING PLAN - NOT IN USE

**PROJECT# 122061
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SUBMITTAL**

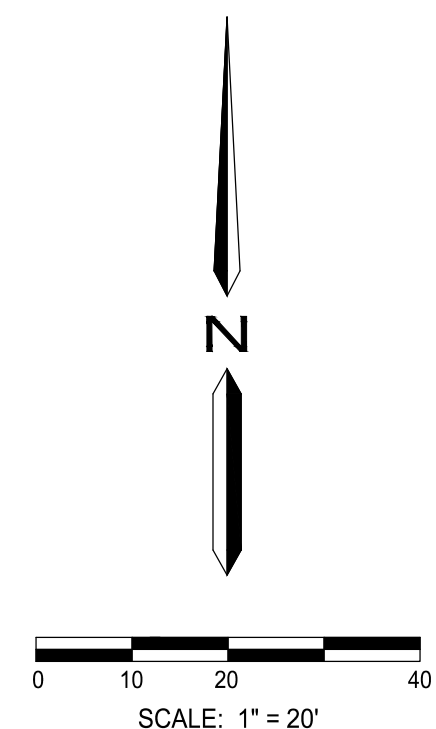
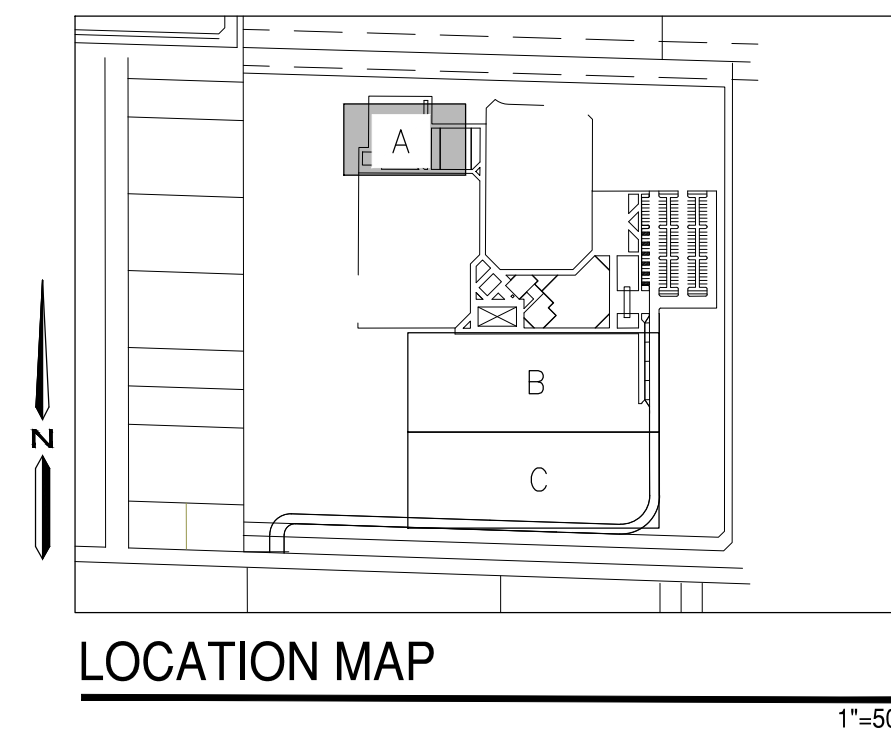
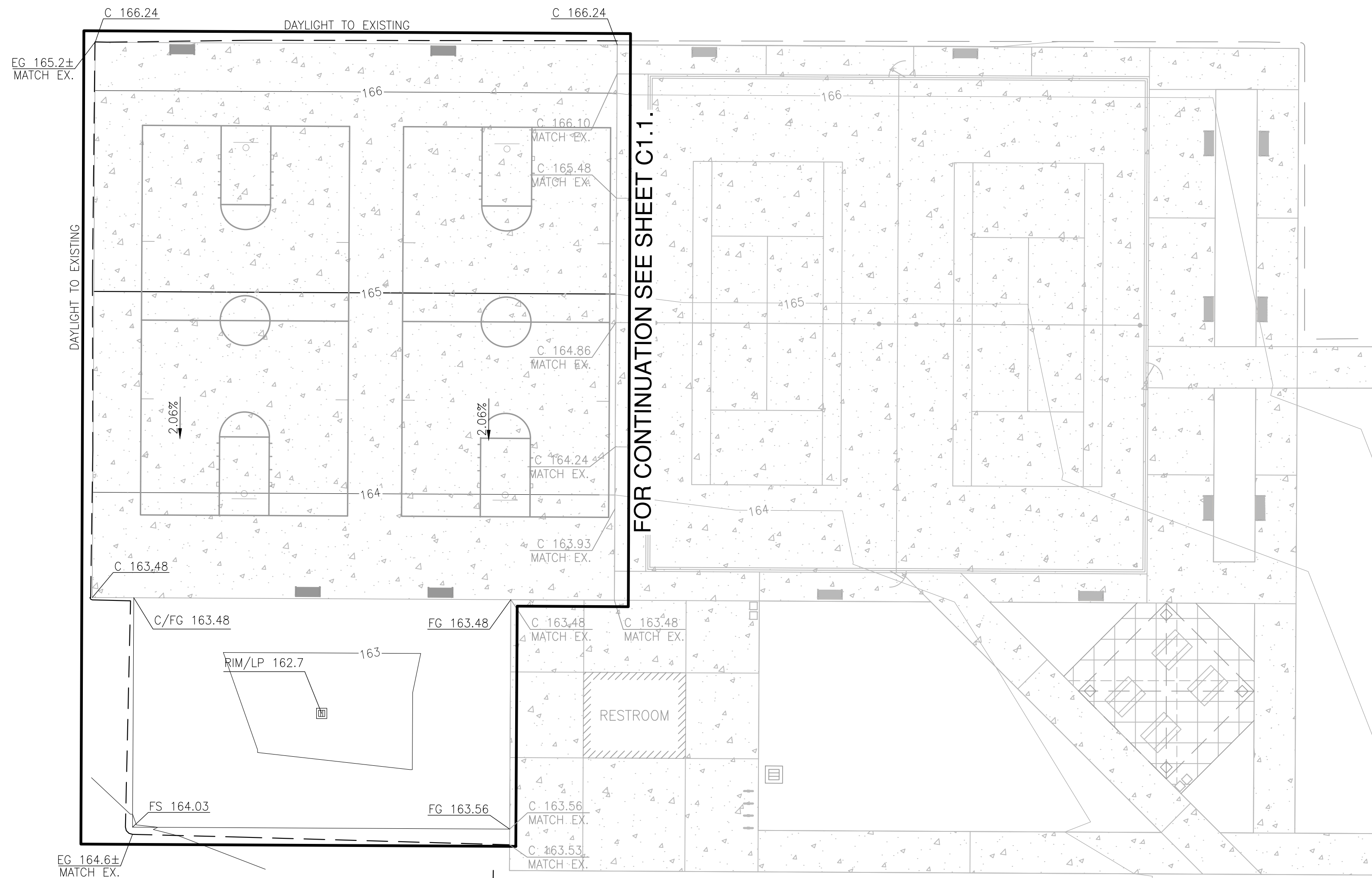
DR. BY: TF / YC
DATE: 01/12/2023
CH. BY: SK/CK/JN
DATE: 01/12/2023
SCALE: AS SHOWN

File No. 40320-GP.DWG

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17 of 75



O'DELL
ENGINEERING

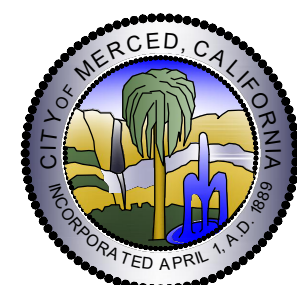


**ADDITIONAL SCOPE
BID DOCUMENTS**

NO.	DATE	BY	REVISION MADE
1	6/16/23	AM	ADDED SCOPE AREA REVISIONS

Underground Service Alert
**TWO DAYS
BEFORE
YOU DIG**
Call: TOLL FREE 1 (800) 227-2600

NOTE:
ALL REFERENCES AND WRITTEN
DIMENSIONS SHALL TAKE
PREFERENCE OVER SCALED
DIMENSIONS AND SHALL BE
VERIFIED ON THE SITE. ANY
DISCREPANCY SHALL BE BROUGHT
TO NOTICE OF THE ENGINEER
PRIOR TO THE COMMENCEMENT
OF ANY WORK.

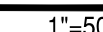


City of Merced
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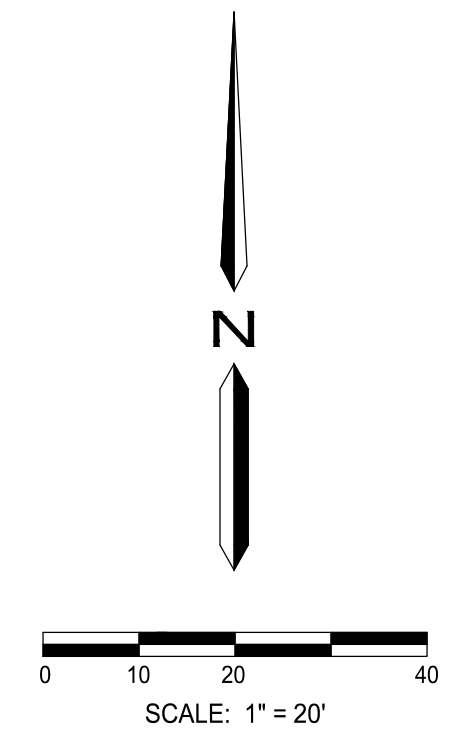
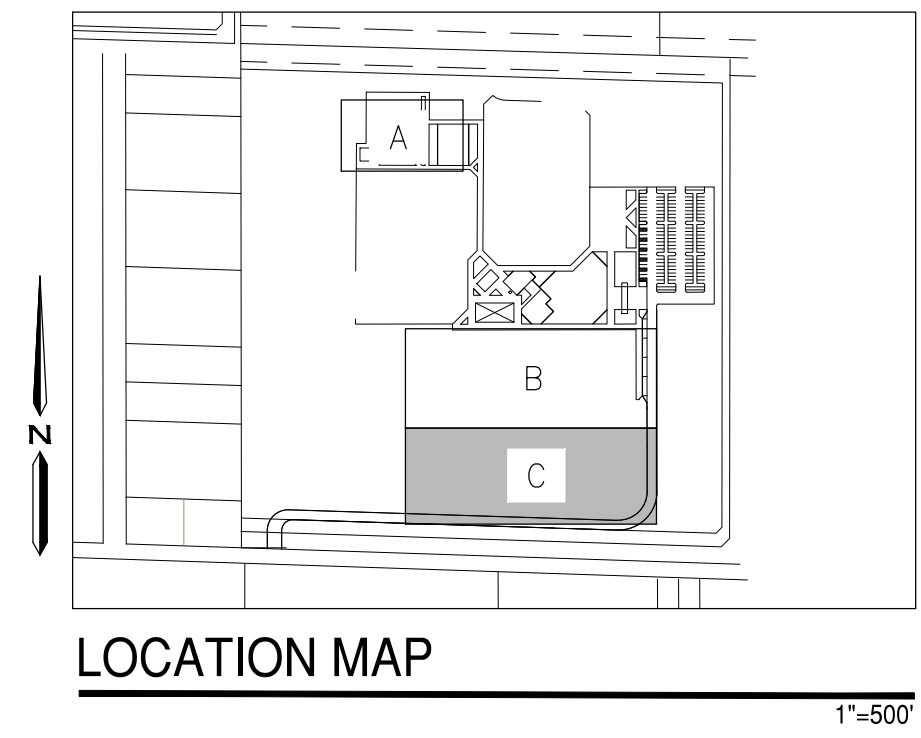
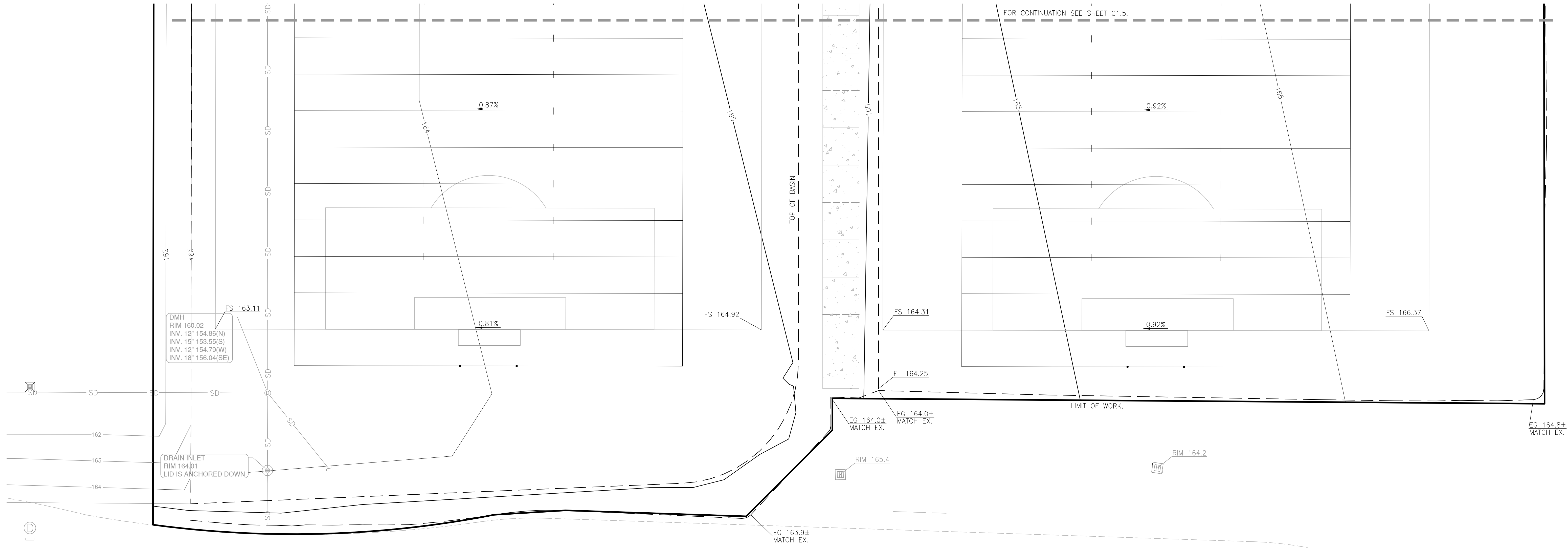
GRADING PLAN

**PROJECT# 122061
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SUBMITTAL**

DR. BY: TF / YC	File No. 40320-GP.DWG
DATE: 01/12/2023	Sheet
CH. BY: SK/CK/JN	C1.9
DATE: 01/12/2023	18 of 75
SCALE: AS SHOWN	



DR. BY: TF / YC	File No. 40320-GP.DWG
DATE: 01/12/2023	Sheet 1
CH. BY: SK/CK/JN	<div style="border: 2px solid black; padding: 10px; display: inline-block;"> C1.10 </div>
DATE: 01/12/2023	
SCALE: AS SHOWN	<div style="display: flex; justify-content: space-around; font-size: 24px; font-weight: bold;"> 19 of 75 </div>



Odell
ENGINEERING

REGISTERED PROFESSIONAL ENGINEER
Kristen Scheidt
No. 75665
CIVIL
STATE OF CALIFORNIA

ADDITIONAL SCOPE
BID DOCUMENTS

NO.	DATE	BY	REVISION MADE
1	6/16/23	AM	ADDED SCOPE AREA REVISIONS

Underground Service Alert

**TWO DAYS
BEFORE
YOU DIG**

Call : TOLL FREE 1 (800) 227 - 2600

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File No. 40320-GP.DWG
Sheet
C1.11
20 of 75

NOT IN USE



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City of Merced
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UTILITY PLAN - NOT IN USE

PROJECT# 122061
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SUBMITTAL

DR. BY: TF / YC
DATE: 01/12/2023
CH. BY: SK/CK/JN
DATE: 01/12/2023
SCALE: AS SHOWN

File No. 40320-UP.DWG

Sheet

C2.7

28 of 75

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ADDITIONAL SCOPE
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1	6/16/23	AM	ADDED SCOPE AREA REVISIONS



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UTILITY PLAN - NOT IN USE

PROJECT# 122061
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SUBMITTAL

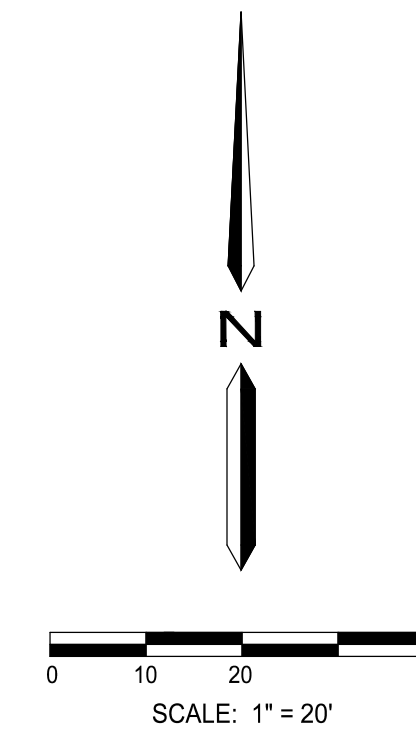
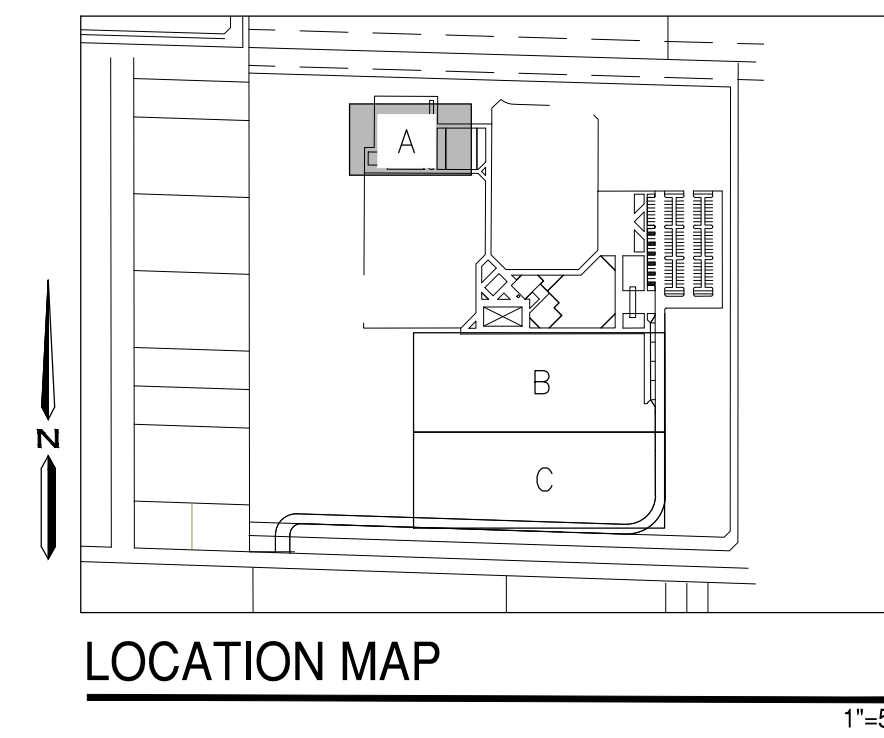
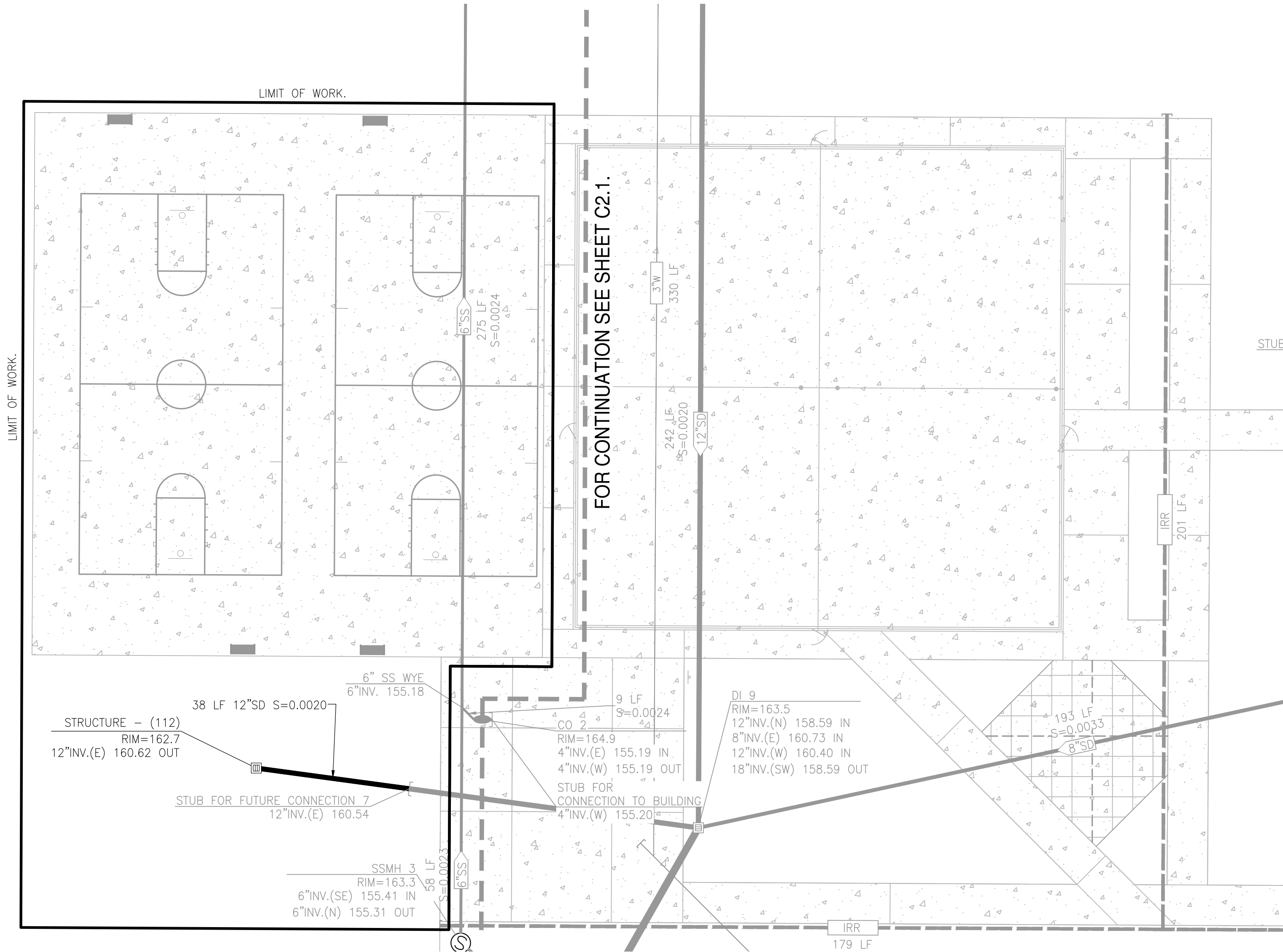
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SCALE: AS SHOWN

File No. 40320-UP.DWG

Sheet

C2.8

29 of 75



O'DELL
ENGINEERING



ADDITIONAL SCOPE
BID DOCUMENTS

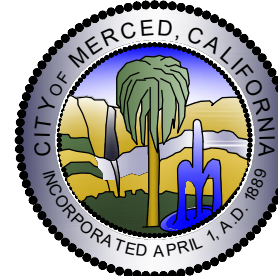
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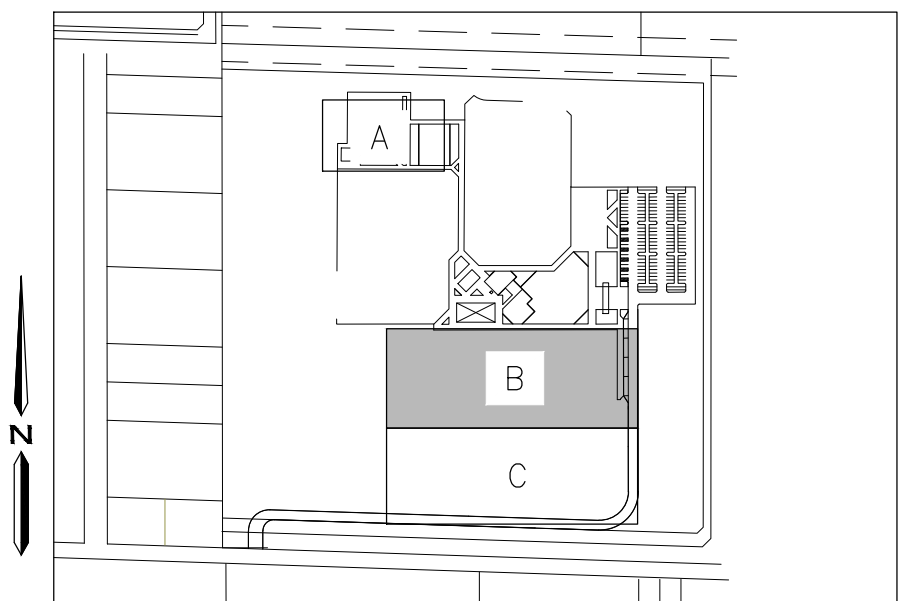
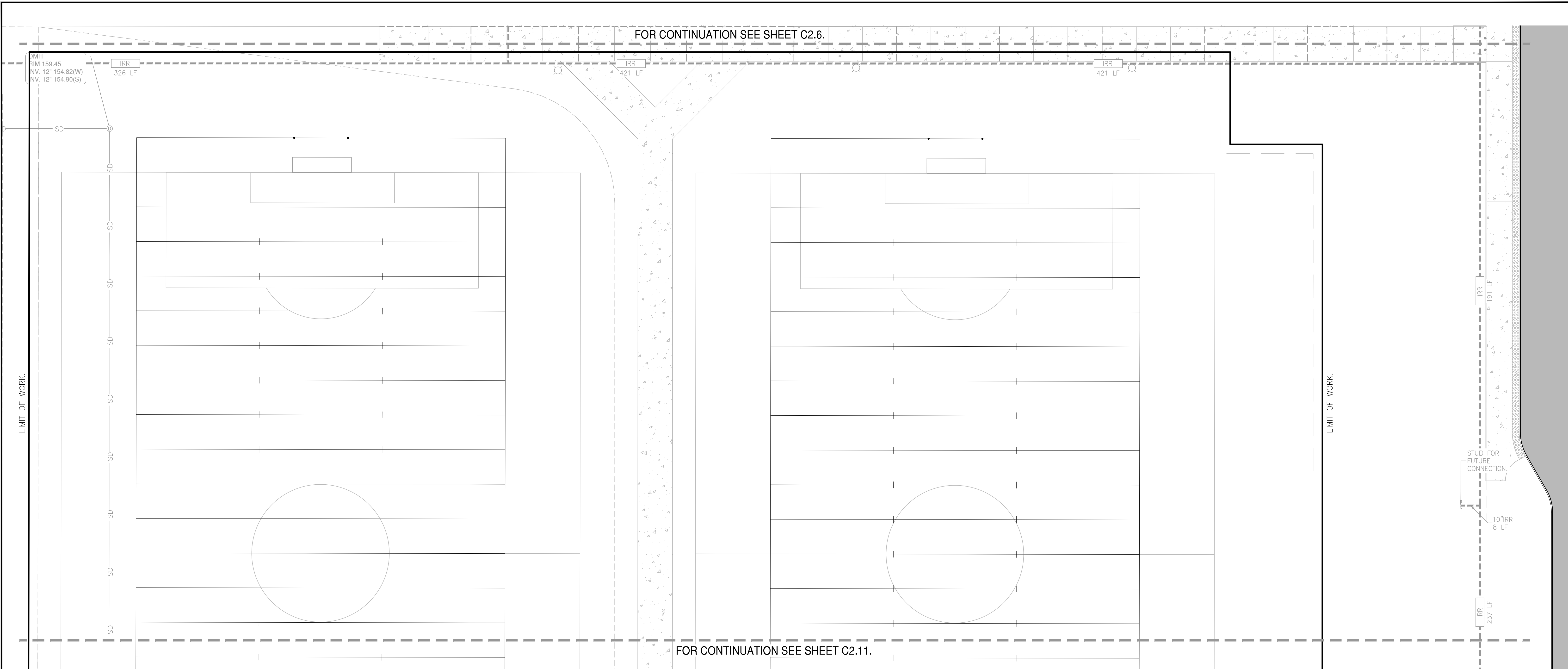
City of Merced
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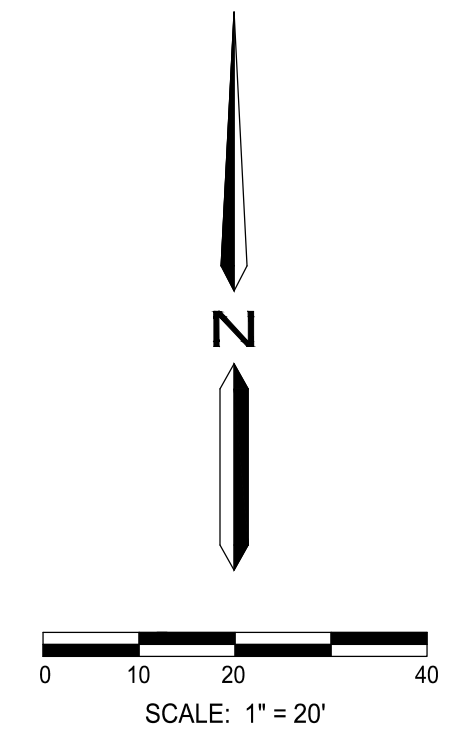
UTILITY PLAN

**PROJECT# 122061
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SUBMITTAL**

DR. BY: TF / YC	File No. 40320-UP.DWG
DATE: 01/12/2023	Sheet
CH. BY: SK/CK/JN	C2.9
DATE: 01/12/2023	30 of 75
SCALE: AS SHOWN	



LOCATION MAP



ADDITIONAL SCOPE
BID DOCUMENTS

NO.	DATE	BY	REVISION MADE
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City of Merced

"Gateway to Yosemite"

ENGINEERING

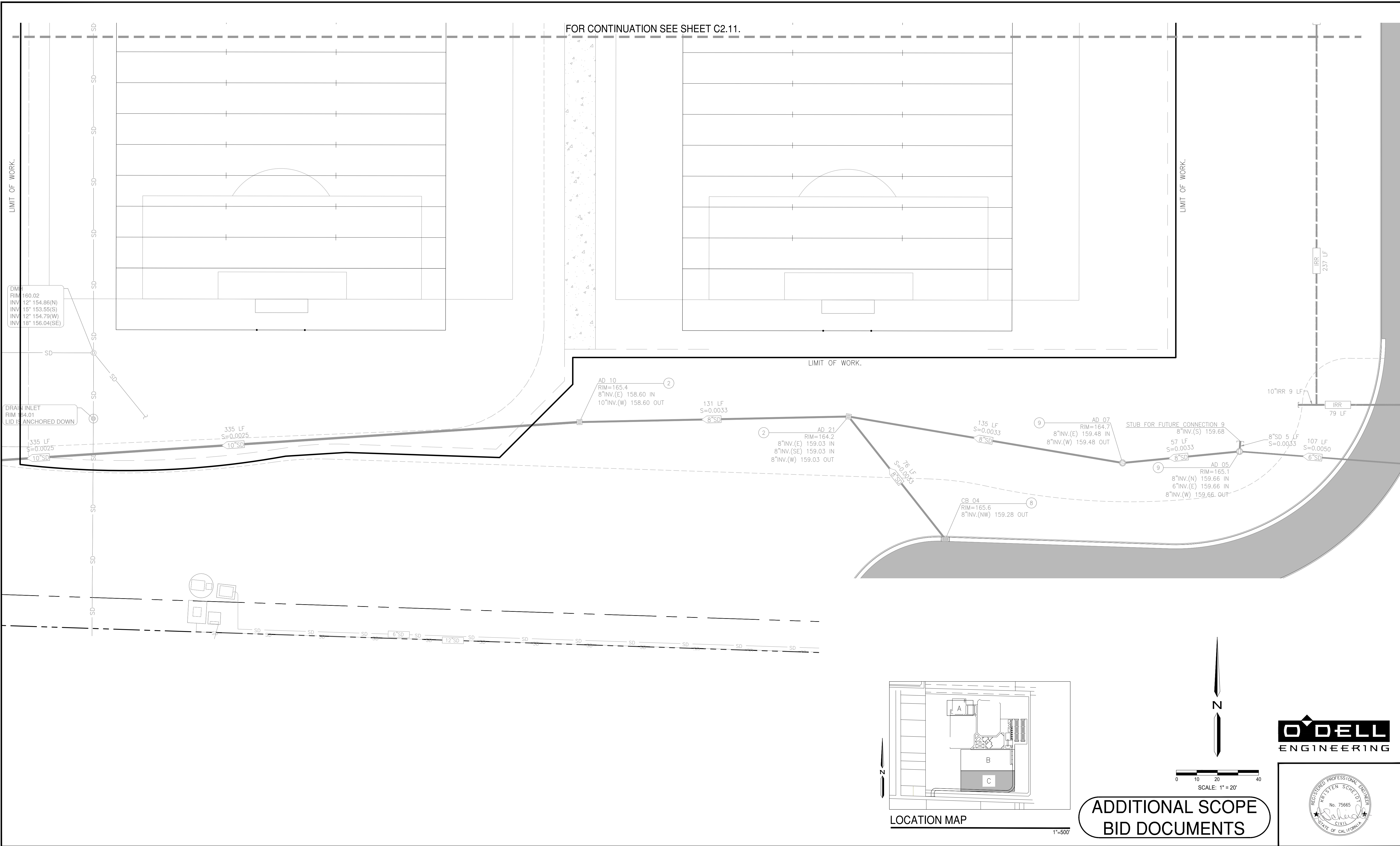
ENGINEERING PROJECTS AND STANDARDS
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UTILITY PLAN

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LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
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File No. 40320-UP.DWG
Sheet
C2.10
31 of 75



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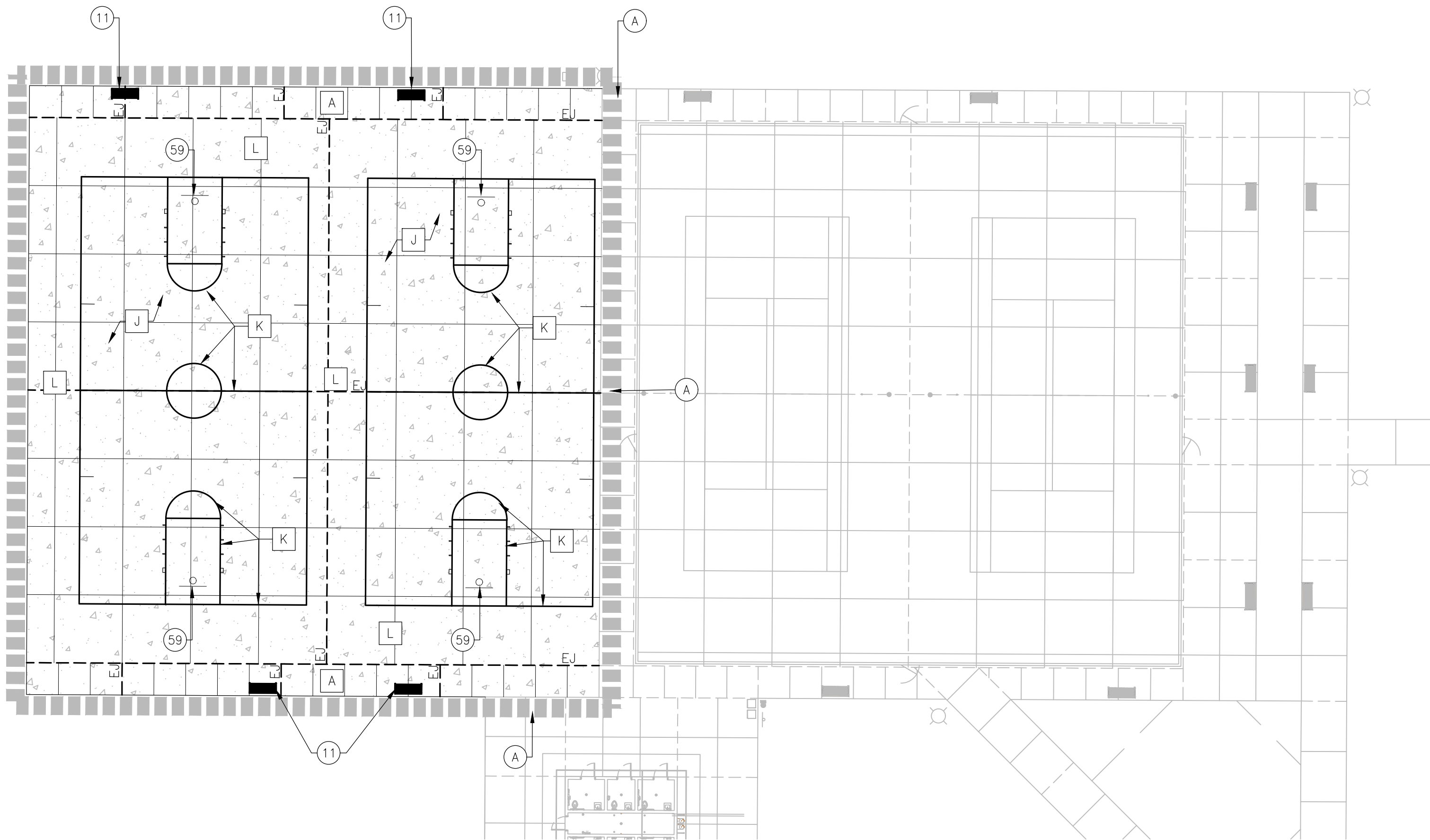
City of Merced
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UTILITY PLAN

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SCALE: AS SHOWN

File No. 40320-UP.DWG
Sheet
C2.11
32 of 75



SITE FEATURE SCHEDULE (SHEETS L1.9-L1.11 ONLY)

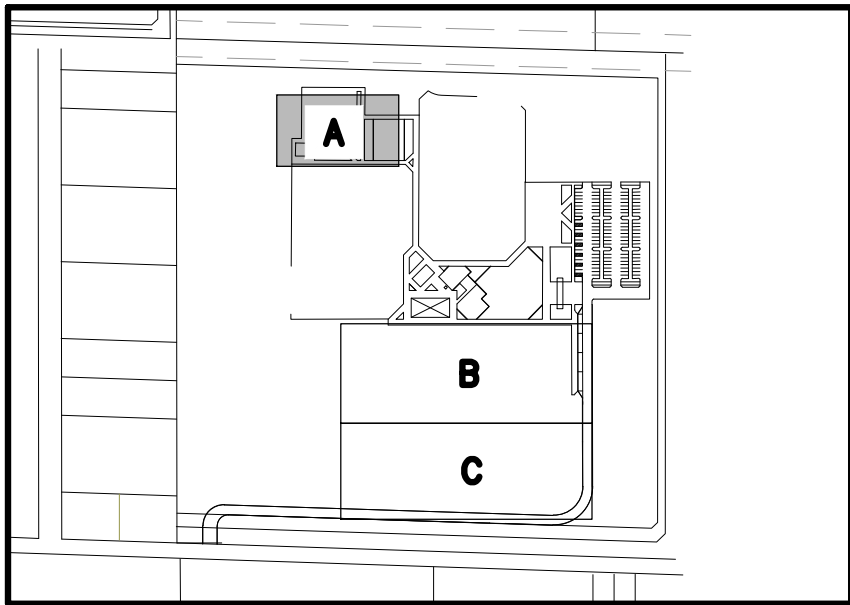
ITEM	DESCRIPTION / MODEL	COLOR	QUANTITY	MANUFACTURER / SUPPLIER / INFORMATION	DET REF.
11	BENCH / MODEL: 424 OR EQUAL	NATURAL	4 EA	OUTDOOR CREATIONS / WWW.OUTDOORCREATIONS.COM / CHAD SMITH / 530-365-6106	4/L5.1
16	SOCCER GOAL / MODEL: 2239-00A OR EQUAL	GALVANIZED	4 EA	PATTERSON WILLIAMS / WWW.PWATHLETIC.COM / 866-295-7028	----
50	2X4 REDWOOD HEADER BOARD AT LIMIT OF PHASE 1	NATURAL	1,477 LF		6/L5.0
55	SOCCER FIELD STRIPING			BY CITY OF MERCED	----
56	FOOTBALL FIELD STRIPING			BY CITY OF MERCED	----
57	CHAIN LINK SAFETY FENCING BEHIND SOCCER GOALS WITH CONCRETE CURB	BLACK	542 LF		1/L5.1
58	FIELD MARKER IDENTIFICATION SIGNAGE	ALUMALITE	4 EA		7/L5.2
59	BASKETBALL GOAL / MODEL # LA-12C56 WITH WHITE BACKBOARD / MODEL # LA-01-0TA RIM / MODEL # LA-600	GALVANIZED STEEL	4 EA	NORCAL OUTDOOR SUPPLY / JEFF WHITMAN / P: (925) 984-2075	1/L5.10

SITE FINISH SCHEDULE (SHEETS L1.9-L1.11 ONLY)

FINISH	DESCRIPTION	COLOR	QUANTITY	PATTERN / INFORMATION	DET REF.
A	CONCRETE FLATWORK	NATURAL	23,666 SF	MEDIUM BROOM FINISH / PERPENDICULAR TO PATH OF TRAVEL	1/L5.0 & 1&2/L5.8
F	PLANTING AREA - SEE PLANTING PLANS				
G	TURF AREA - SEE PLANTING PLANS				
J	PLEXIPAVE COURT SURFACING - BASKETBALL FIELD	SEE DETAIL	9,400 SF	CALIFORNIA SPORTS SURFACES / WWW.CALIFORNIASPORTSSURFACES.COM / 978-623-9980	2/L5.10
K	PLEXIPAVE COURT SURFACING - BASKETBALL STRIPING	SEE DETAIL	1,100 LF	CALIFORNIA SPORTS SURFACES / WWW.CALIFORNIASPORTSSURFACES.COM / 978-623-9980	2/L5.10
L	BASKETBALL PERIMETER		4,625 SF		2/L5.10

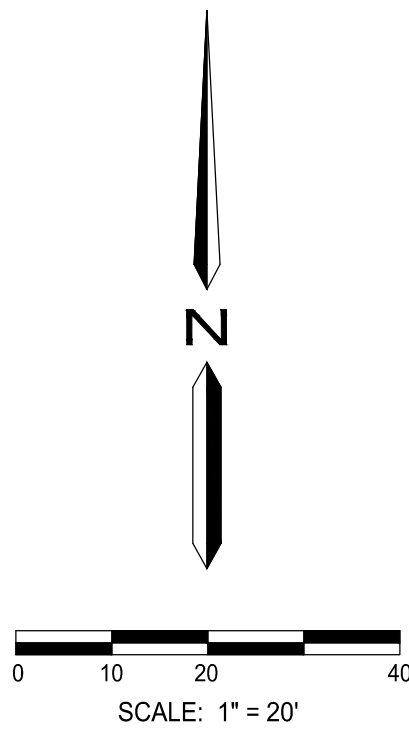
SHEET NOTES

- (A) LIMIT OF WORK PER THESE PLANS, SEE BASE BID IMPROVEMENT PLANS FOR CONTINUATION AND ADDITIONAL INFORMATION.
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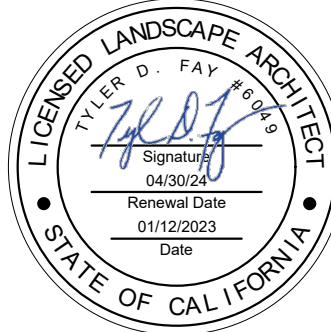


LOCATION MAP

1"=500'



O'DELL
ENGINEERING



ADDITIONAL SCOPE
BID DOCUMENTS

NO.	DATE	BY	REVISION MADE
1	6/16/23	TF	ADDED SCOPE AREA REVISIONS

Underground Service Alert

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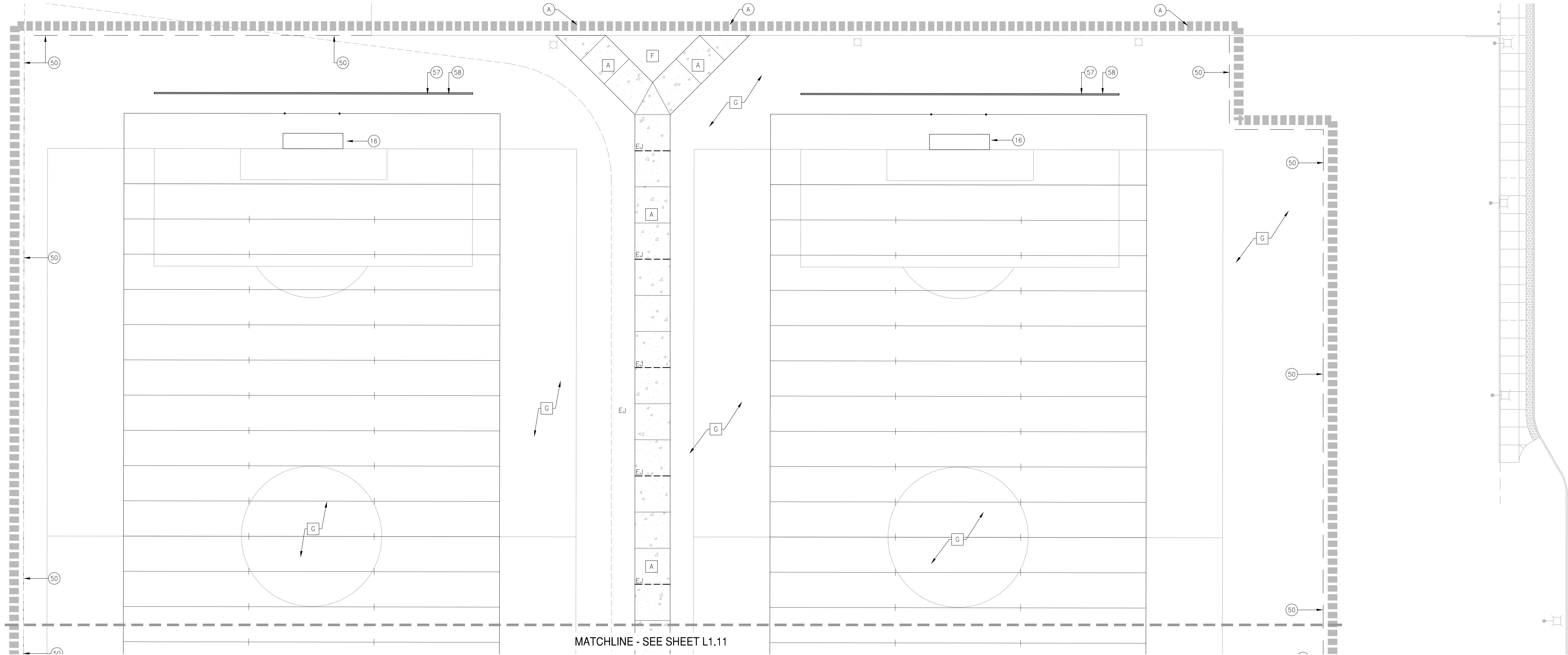
City of Merced
"Gateway to Yosemite"
ENGINEERING
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678 W. 18th Street (209) 385-6846

**SITE FEATURES AND FINISHES
PLAN**

**PROJECT# 122061
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SUBMITTAL**

DR. BY: TF / YC
DATE: 01/12/2023
CH. BY: SK/CK/JN
DATE: 01/12/2023
SCALE: 1"=20'

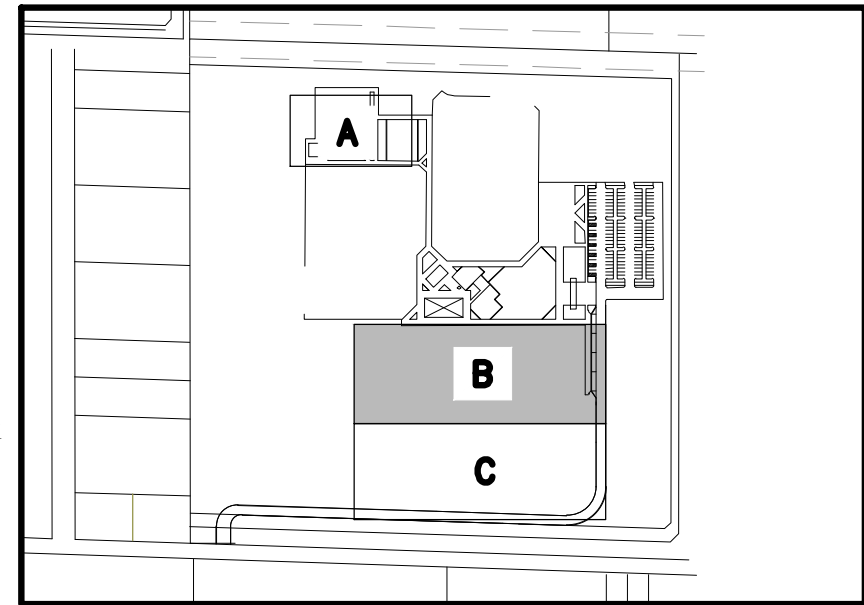
File No. 40320-SF.DWG
Sheet
L1.9
24 of 75



MATCHLINE - SEE SHEET L1.11

SHEET NOTES

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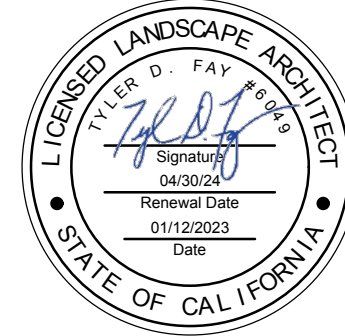
LOCATION MAP

1"=500'



0 10 20 40
SCALE: 1"=20'

O'DELL
ENGINEERING



ADDITIONAL SCOPE
BID DOCUMENTS

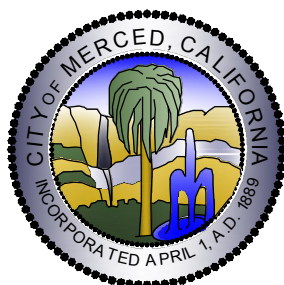
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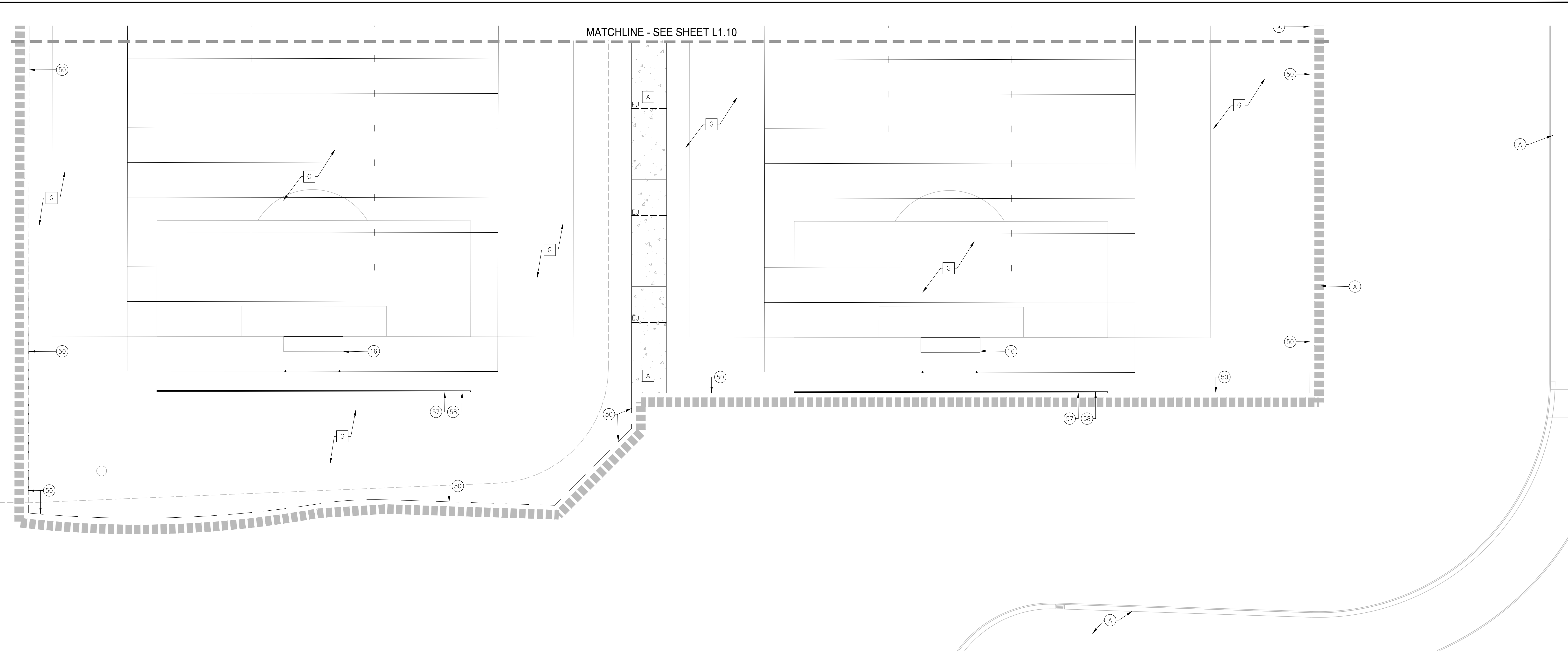
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**SITE FEATURES AND FINISHES
PLAN**

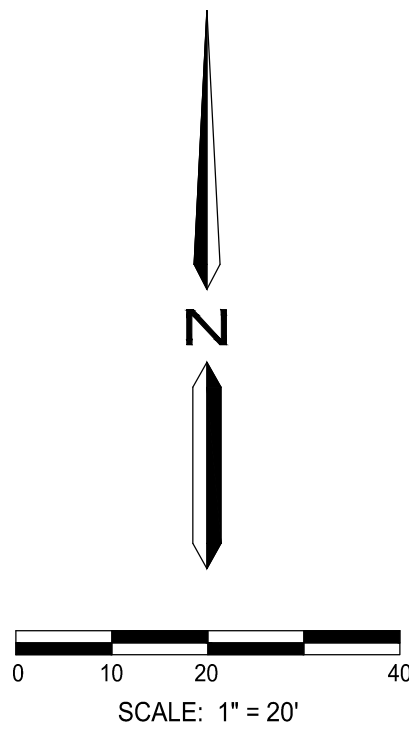
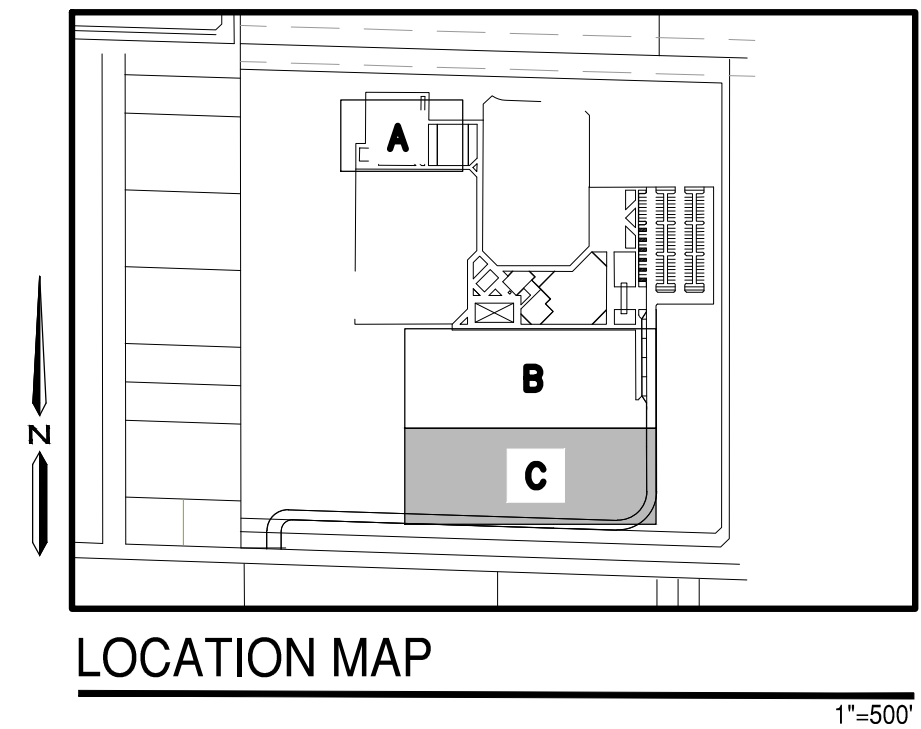
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CH. BY: SK/CK/JN
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SCALE: 1"=20'

File No. 40320-SF.DWG
Sheet
L1.10
24 of 75



- SHEET NOTES**
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ADDITIONAL SCOPE
BID DOCUMENTS



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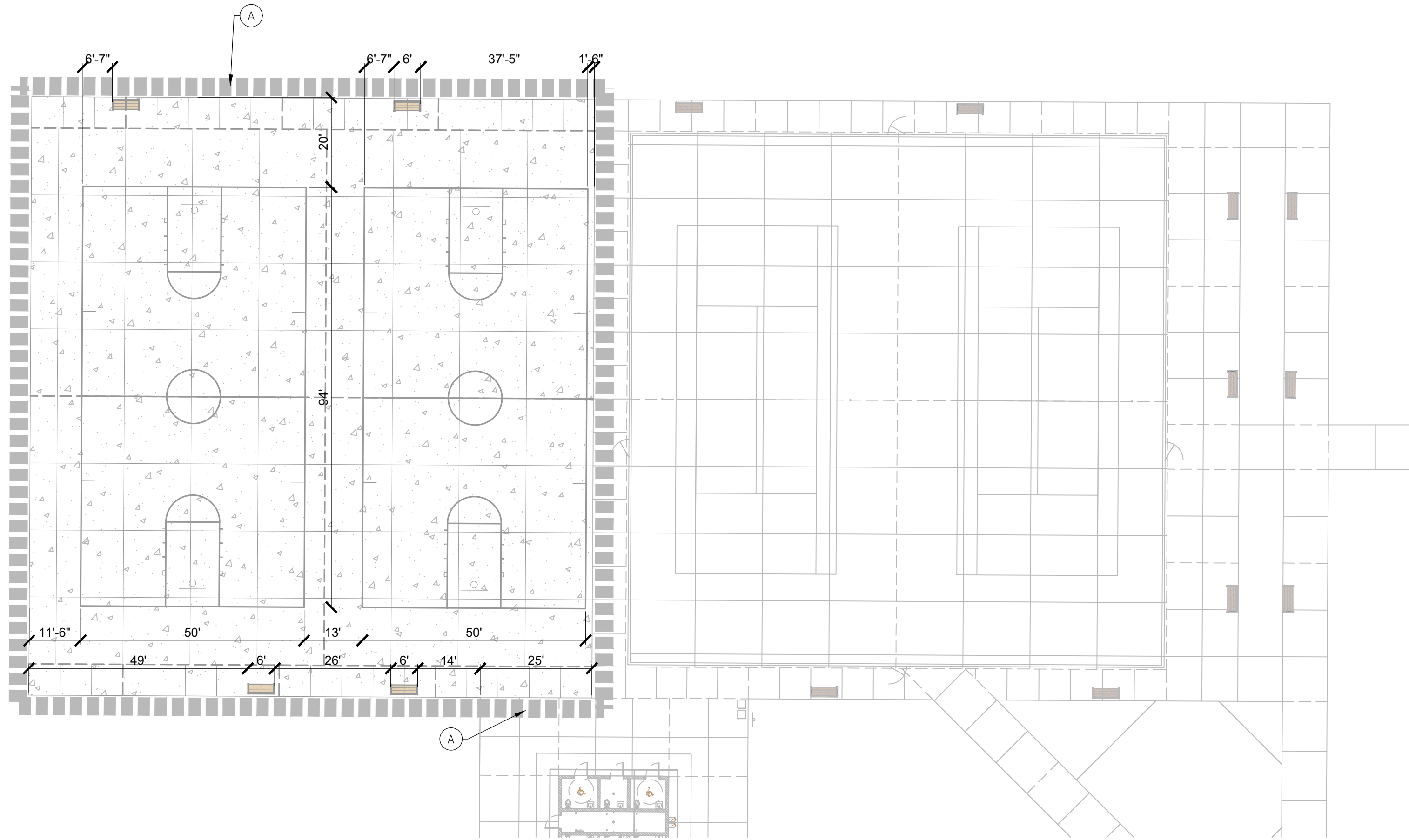
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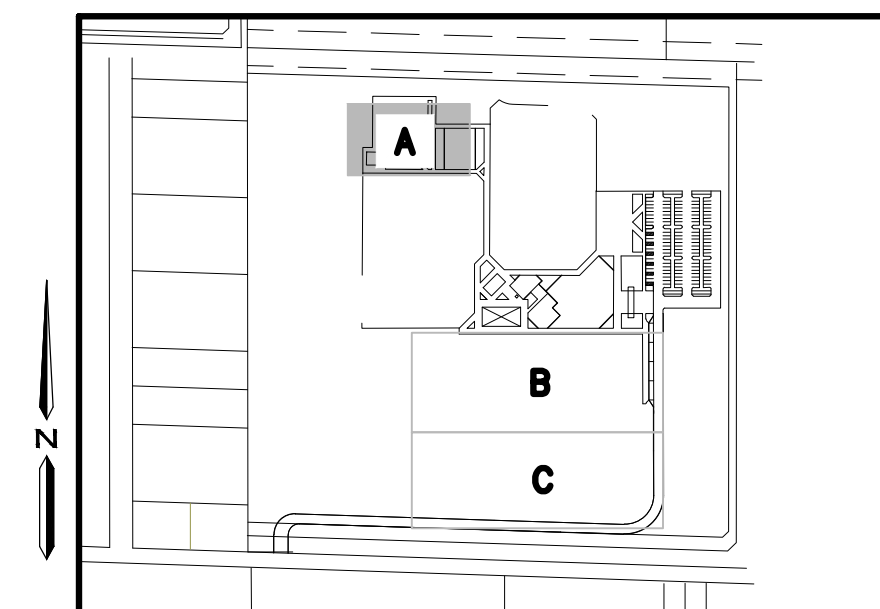
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Sheet
L1.11
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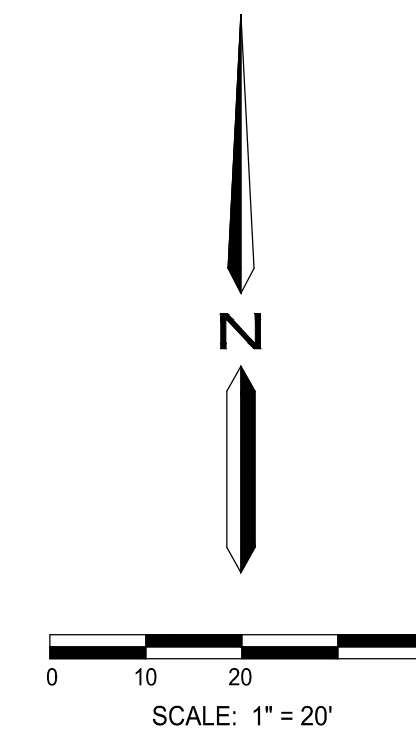
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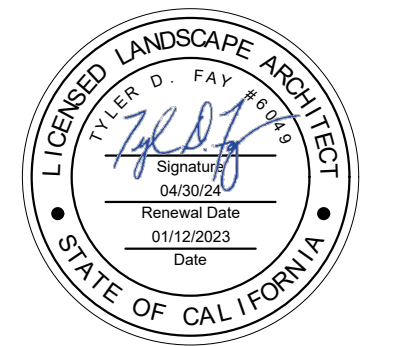


LOCATION MAP

1"=500'



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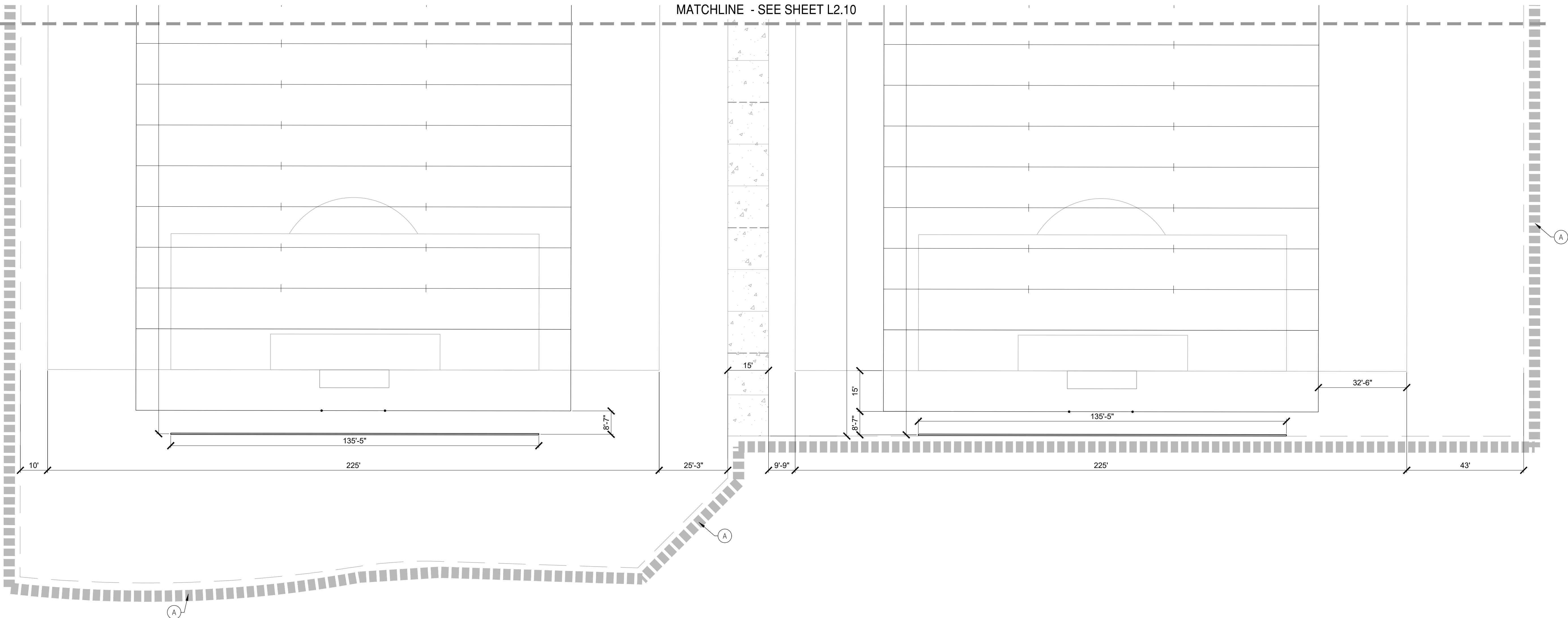
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HORIZONTAL CONTROL PLAN

PROJECT# 122061
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SUBMITTAL

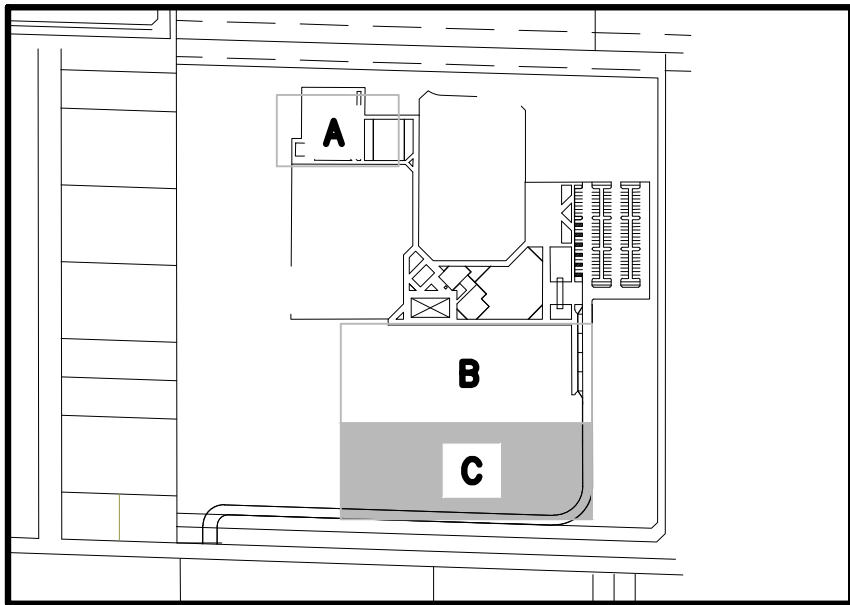
DR. BY: TF / YC
DATE: 01/12/2023
CH. BY: SK/CK/JN
DATE: 01/12/2023
SCALE: 1"=20'

File No. 40320-HC.DWG
Sheet
L2.9
32 of 75



SHEET NOTES

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LOCATION MAP

1"=500'



0 10 20 40
SCALE: 1" = 20'



ADDITIONAL SCOPE
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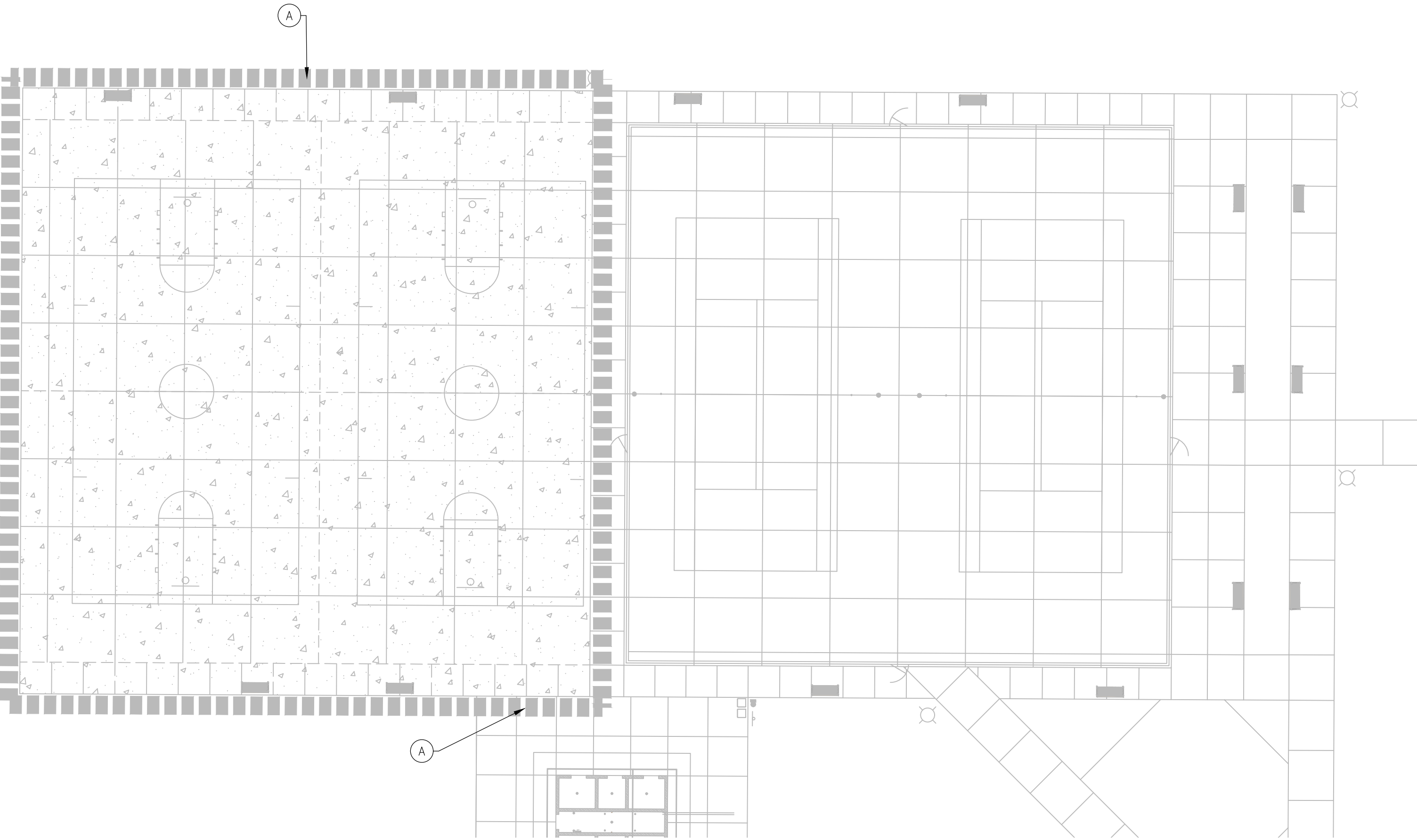
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SCALE: 1"=20'

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Sheet
L2.11
32 of 75



IRRIGATION SCHEDULE (SHEETS L3.6-L3.8 ONLY)						
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS	DETAIL
ROTORS						
	HUNTER 1-20-06-MPR-SS 35 TURF ROTOR, 6" POP-UP, ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER, DRAIN CHECK VALVE, MPR NOZZLE.	15	45	VARIES	30' +/-	2/L6.1
	HUNTER 1-20-06-MPR-SS 30 TURF ROTOR, 6" POP-UP, ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER, DRAIN CHECK VALVE, MPR NOZZLE.	8	45	VARIES	25' +/-	2/L6.1
	HUNTER 1-50-06-SS TURF ROTOR, 6" POP-UP, ADJUSTABLE TO FULL CIRCLE. DRAIN CHECK VALVE, STAINLESS STEEL RISER, 1" FEMALE NPT INLET THREADS, STANDARD NOZZLE.	109	70	25.8	55' +/-	2/L6.1
	HUNTER 1-50-06-SS TURF ROTOR, 6" POP-UP, ADJUSTABLE TO FULL CIRCLE. DRAIN CHECK VALVE, STAINLESS STEEL RISER, 1" FEMALE NPT INLET THREADS, STANDARD NOZZLE.	8	70	16.6	55' +/-	2/L6.1
	HUNTER 1-50-06-SS TURF ROTOR, 6" POP-UP, ADJUSTABLE TO FULL CIRCLE. DRAIN CHECK VALVE, STAINLESS STEEL RISER, 1" FEMALE NPT INLET THREADS, STANDARD NOZZLE.	2	70	12.2	55' +/-	2/L6.1
BUBBLER						
	RAIN BIRD PCT - 05 PRESSURE COMPENSATING THREADED LOW-FLOW BUBBLERS. WITH 1/2" FPT THREADED INLET. LIGHT BROWN = 5 GPH	23	15	5 GPH		3/L6.1
	(1) RAIN BIRD RWS-M-B-C-1401 W/ RWS-GRATE & RWS-SOCK AND (1) RAIN BIRD PCT - 05 PRESSURE COMPENSATING THREADED LOW-FLOW BUBBLERS. WITH 1/2" FPT THREADED INLET. LIGHT BROWN = 5 GPH	2	20	0.25 GPM/.083 GPM		5/L6.1
	RAIN BIRD RWS-M-B-C-1401 W/ RWS-GRATE & RWS SOCK (2 PER TREE)	58	20	0.25 GPM/EA		4/L6.1
IRRIGATION EQUIPMENT						
	RAIN BIRD 100-PESB W/RAIN BIRD LCRBY-100D AND RAIN BIRD PS1-H40X-100 1" PLASTIC INDUSTRIAL VALVES WITH SCRUBBER TECHNOLOGY, DISK Y-FILTER, AND 40PSI PRESSURE REGULATOR. INSTALL IN RAIN BIRD VBSTD VALVE BOX OR EQUAL.	1				8/L6.0
	RAIN BIRD PESB 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES WITH SCRUBBER TECHNOLOGY. INSTALL IN RAIN BIRD VBSTD AND VBSTDPL VALVE BOX OR EQUAL.	30				7/L6.0
	RAIN BIRD 5-RC 1" 1-PIECE BODY BRASS QUICK-COUPLING VALVE. INSTALL IN RAIN BIRD VB10RND VALVE BOX OR EQUAL.	4				6/L6.0
	NIBCO T-113-K CLASS 125 BRONZE GATE SHUT OFF VALVE WITH CROSS HANDLE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE = 1/4" - 3"	3				5/L6.0
PIPING						
	IRRIGATION LATERAL LINE: PVC SCH 40 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE.	9,869 L.F.				9/L6.1
	4" IRRIGATION MAINLINE: PVC SCH 40 SDR 21 IRRIGATION PIPE. ALL MAINTENANCE FITTINGS TO BE SCH 80	404 L.F.				9/L6.1
	10" IRRIGATION MAINLINE: PVC CLASS 315 SDR 21 GASKETED IRRIGATION PIPE. ALL MAINTENANCE FITTINGS TO BE SCH 80	325 L.F.				9/L6.1
	1" PVC SCHEDULE 40 ELECTRICAL CONDUIT FOR 2-WIRE PATH, WITH PAIGE ELECTRIC P7072D COMMUNICATION CABLE	663 L.F.				1/L6.0
	PIPE SLEEVE: PVC SCH 40 IPS PIPE.	PER PLANS				6/L6.1

IRRIGATED LANDSCAPE WATER EFFICIENCY TABLE								IRRIGATION SCHEDULE								
WATER BUDGET CALCULATIONS								SCHEDULING NOTES & RUN TIMES								
MAXIMUM APPLIED WATER ALLOWANCE								WATERING CYCLES AND DURATION DURING PRE-ESTABLISHMENT PERIODS SHOULD BE ADJUSTED PER PLANT PROVIDER'S RECOMMENDATIONS AND CURRENT WEATHER CONDITIONS.								
MAWA=(ET _o)(0.62)((0.45xLA)+((1.0-0.45)xSLA))				LOCAL ET _o =	LA =	SLA =	MAWA TOTAL=									
				51.5	226,609	225,389	7,214,200 GAL.	POST ESTABLISHMENT IRRIGATION SCHEDULE CALCULATED USING AVERAGE CLIMATE CONDITIONS AND AVERAGE PLANT REQUIREMENTS. THIS SCHEDULE SERVES AS A BASE FOR CONTROLLER PROGRAMMING. EXTREME AND SITE SPECIFIC CONDITIONS WILL RESULT IN ET _o ADJUSTMENTS AND MAY REQUIRE ADJUSTMENTS TO SCHEDULE FREQUENCY/DURATION.								
ESTIMATED TOTAL WATER USE																
ETWU=(ET _o)(0.62)(((PFxHA)/IE)+SLA)				LOCAL ET _o =	PF =	LA =	SLA =	ETWU TOTAL=	IRRIGATION CONTROLLER SHALL BE CONFIGURED TO RUN ALL ZONES ON SOAK CYCLES.							
				51.5	SEE BELOW	226,609	225,389	7,213,605 GAL.								
HYDROZONE INFORMATION TABLE								WINTER		SPRING		SUMMER		FALL		
HYDROZONE TAG	PLANT FACTOR (PF)	IRRIGATION METHOD	IRRIGATION EFFICIENCY (IE)	ETAF (PF/IE)	LANDSCAPE AREA (SF)	ETAF X AREA	ESTIMATED TOTAL WATER USE (ETWU)	PRE-EST.	POST-EST.	PRE-EST.	POST-EST.	PRE-EST.	POST-EST.	PRE-EST.	POST-EST.	
LANDSCAPE AREAS																
63 (TREE/RWS/MODERATE)	0.40	RWS	0.81	0.49	848 SF	419	13,371 GAL	6 MIN/2 DW	12 MIN/1 DW	21 MIN/2 DW	43 MIN/1 DW	22 MIN/2 DW	44 MIN/1 DW	11 MIN/2 DW	22 MIN/1 DW	
59 (SHRUB/BUBBLER/LOW)	0.24	BUBBLER	0.81	0.30	372 SF	112	3,563 GAL	2 MIN/4 DW	5 MIN/2 DW	8 MIN/4 DW	16 MIN/2 DW	8 MIN/4 DW	16 MIN/2 DW	4 MIN/4 DW	8 MIN/2 DW	
					TOTAL AREA= 1,220 SF	TOTAL= 530	TOTAL = 16,935 GAL.									
SPECIAL LANDSCAPE AREAS																
47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 60, 61, 61, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77 (LAWN/ROTOR/MODERATE)				1	225,389 SF	225,389	7,196,671 GAL	8 MIN/7 DW	19 MIN/3 DW	30 MIN/7 DW	70 MIN/3 DW	31 MIN/7 DW	73 MIN/3 DW	15 MIN/7 DW	36 MIN/3 DW	
					TOTAL AREA= 225,389 SF	TOTAL= 225,389	TOTAL = 7,196,671 GAL.									
* THIS INFORMATION DERIVED FROM PLANT FACTOR DESIGNATIONS IN THE WUCOLS IV DOCUMENT.																

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ADDITIONAL SCOPE
BID DOCUMENTS

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IRRIGATION PLAN

PROJECT# 122061

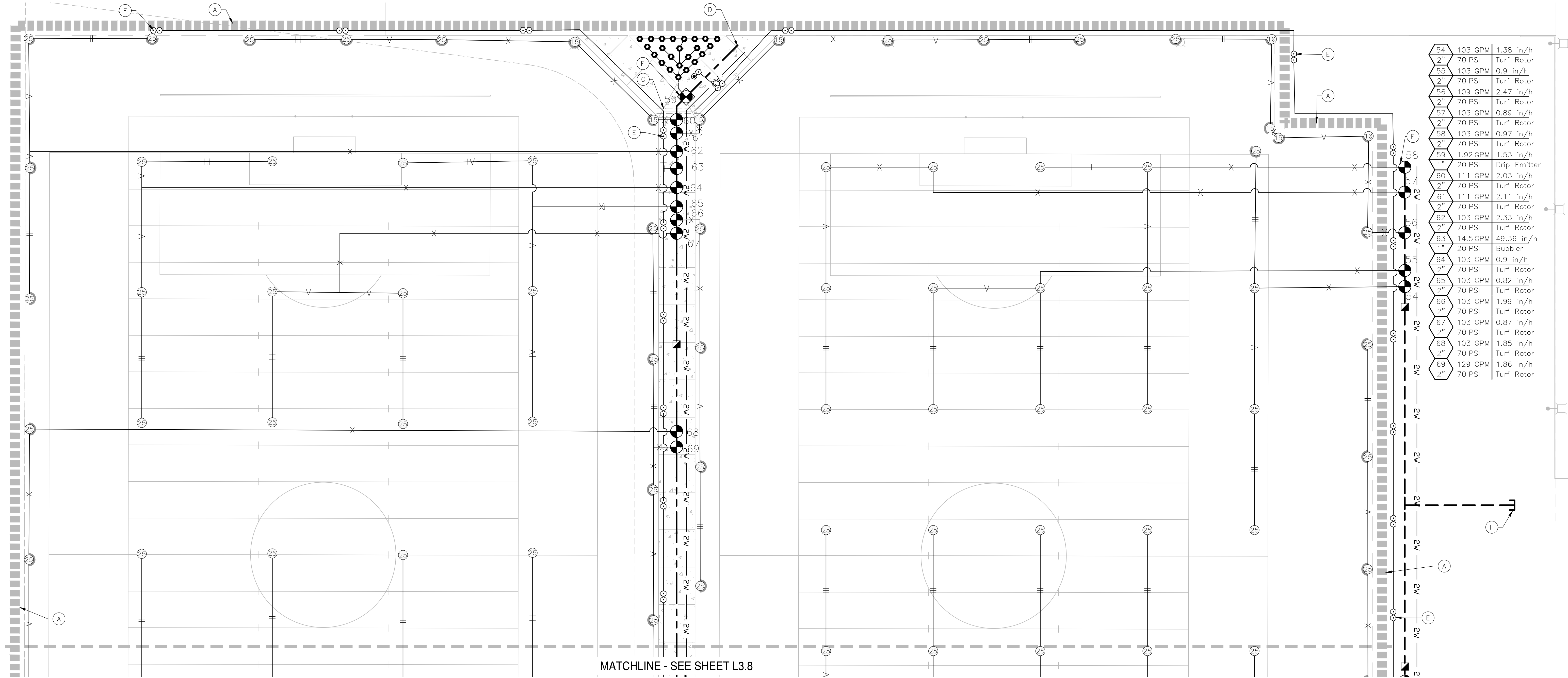
LANDSCAPE IMPROVEMENT PLANS

COMMUNITY PARK-42

BID SUBMITTAL

DR. BY: TF / YC
DATE: 01/12/2023
CH. BY: SK/CK/JN
DATE: 01/12/2023
SCALE: 1"=20'

File No. 40320-IR.DWG
Sheet
L3.6
42 of 75

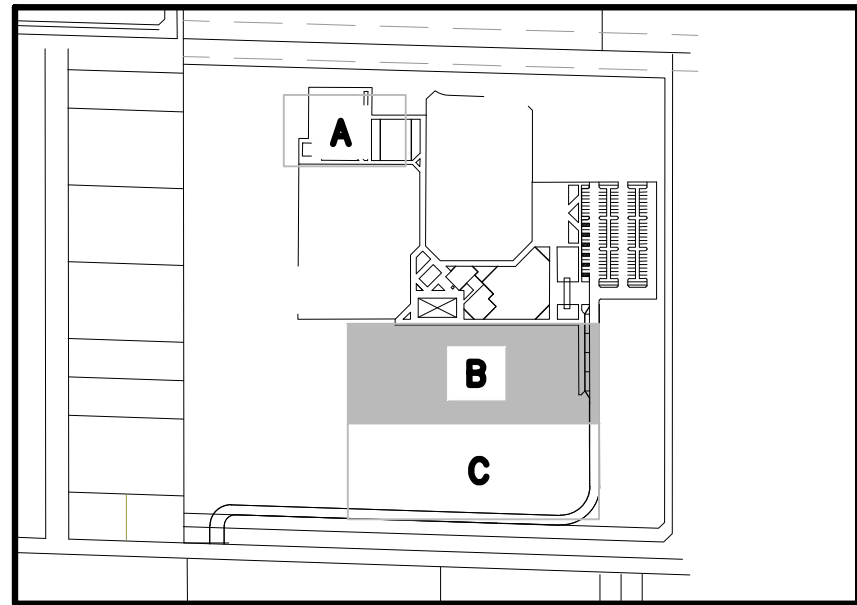


54	103 GPM	1.38 in/h
2"	70 PSI	Turf Rotor
55	103 GPM	0.9 in/h
2"	70 PSI	Turf Rotor
56	109 GPM	2.47 in/h
2"	70 PSI	Turf Rotor
57	103 GPM	0.89 in/h
2"	70 PSI	Turf Rotor
58	103 GPM	0.97 in/h
2"	70 PSI	Turf Rotor
59	1.92 GPM	1.53 in/h
1"	20 PSI	Drip Emitter
60	111 GPM	2.03 in/h
2"	70 PSI	Turf Rotor
61	111 GPM	2.11 in/h
2"	70 PSI	Turf Rotor
62	103 GPM	2.33 in/h
2"	70 PSI	Turf Rotor
63	14.5 GPM	49.36 in/h
1"	20 PSI	Bubbler
64	103 GPM	0.9 in/h
2"	70 PSI	Turf Rotor
65	103 GPM	0.82 in/h
2"	70 PSI	Turf Rotor
66	103 GPM	1.99 in/h
2"	70 PSI	Turf Rotor
67	103 GPM	0.87 in/h
2"	70 PSI	Turf Rotor
68	103 GPM	1.85 in/h
2"	70 PSI	Turf Rotor
69	129 GPM	1.86 in/h
2"	70 PSI	Turf Rotor

MATCHLINE - SEE SHEET L3.8

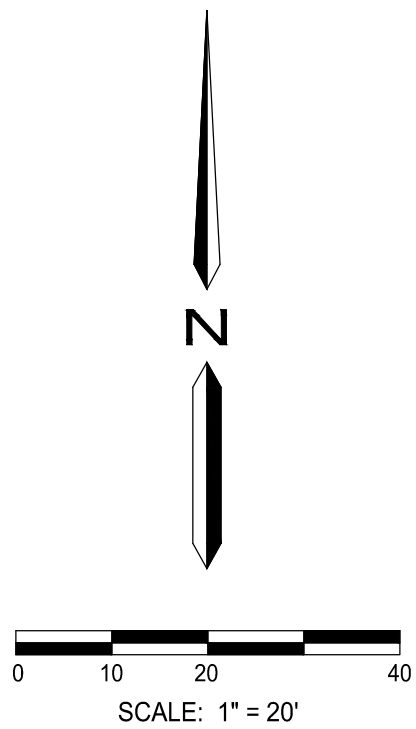
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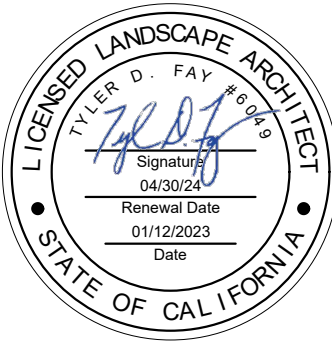


LOCATION MAP

1"=500'



O'DELL
ENGINEERING



ADDITIONAL SCOPE
BID DOCUMENTS

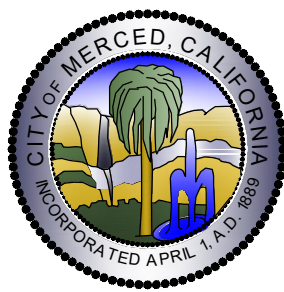
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IRRIGATION PLAN

PROJECT# 122061
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SUBMITTAL

DR. BY: TF / YC
DATE: 01/12/2023
CH. BY: SK/CK/JN
DATE: 01/12/2023
SCALE: 1"=20'

File No. 40320-IR.DWG
Sheet
L3.7
42 of 75

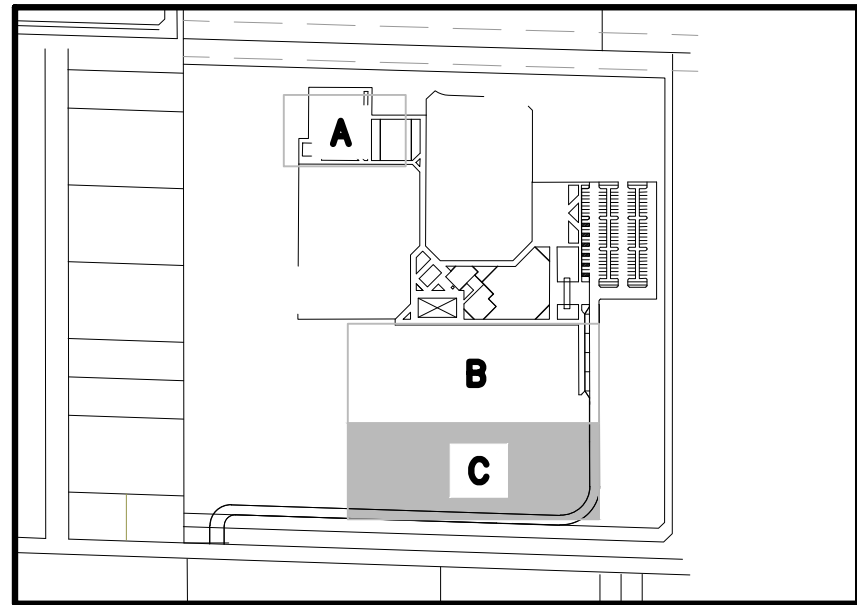
MATCHLINE - SEE SHEET L3.7

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2"	70 PSI	Turf Rotor
71	103 GPM	0.86 in/h
2"	70 PSI	Turf Rotor
72	103 GPM	0.86 in/h
2"	70 PSI	Turf Rotor
73	103 GPM	0.9 in/h
2"	70 PSI	Turf Rotor
74	103 GPM	3.12 in/h
2"	70 PSI	Turf Rotor
75	103 GPM	2.97 in/h
2"	70 PSI	Turf Rotor
76	63.0 GPM	0.98 in/h
2"	35 PSI	Turf Rotor
77	103 GPM	1.76 in/h
2"	70 PSI	Turf Rotor

47	94 GPM	2.41 in/h
2"	70 PSI	Turf Rotor
48	103 GPM	0.89 in/h
2"	70 PSI	Turf Rotor
49	77.4 GPM	0.88 in/h
2"	70 PSI	Turf Rotor
50	103 GPM	0.89 in/h
2"	70 PSI	Turf Rotor
51	103 GPM	0.88 in/h
2"	70 PSI	Turf Rotor
52	103 GPM	0.89 in/h
2"	70 PSI	Turf Rotor
53	103 GPM	2.03 in/h
2"	70 PSI	Turf Rotor

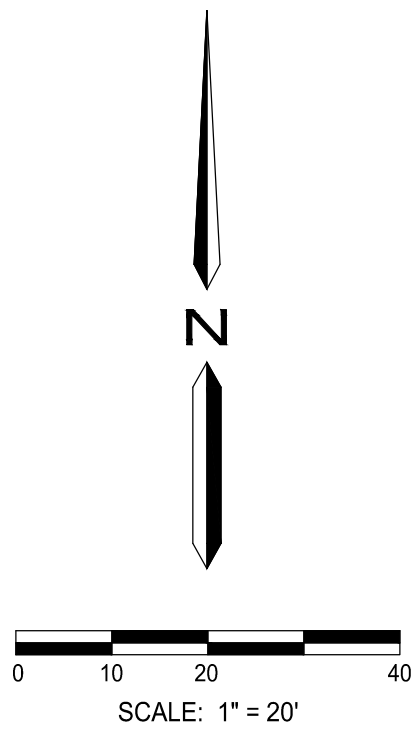
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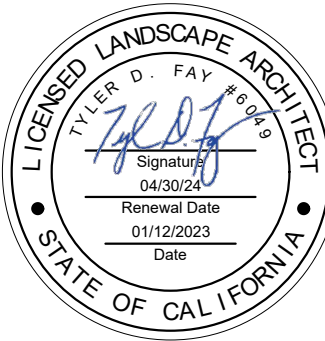


LOCATION MAP

1"=500'



O'DELL
ENGINEERING



ADDITIONAL SCOPE
BID DOCUMENTS

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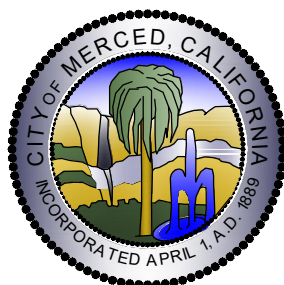
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City of Merced
"Gateway to Yosemite"

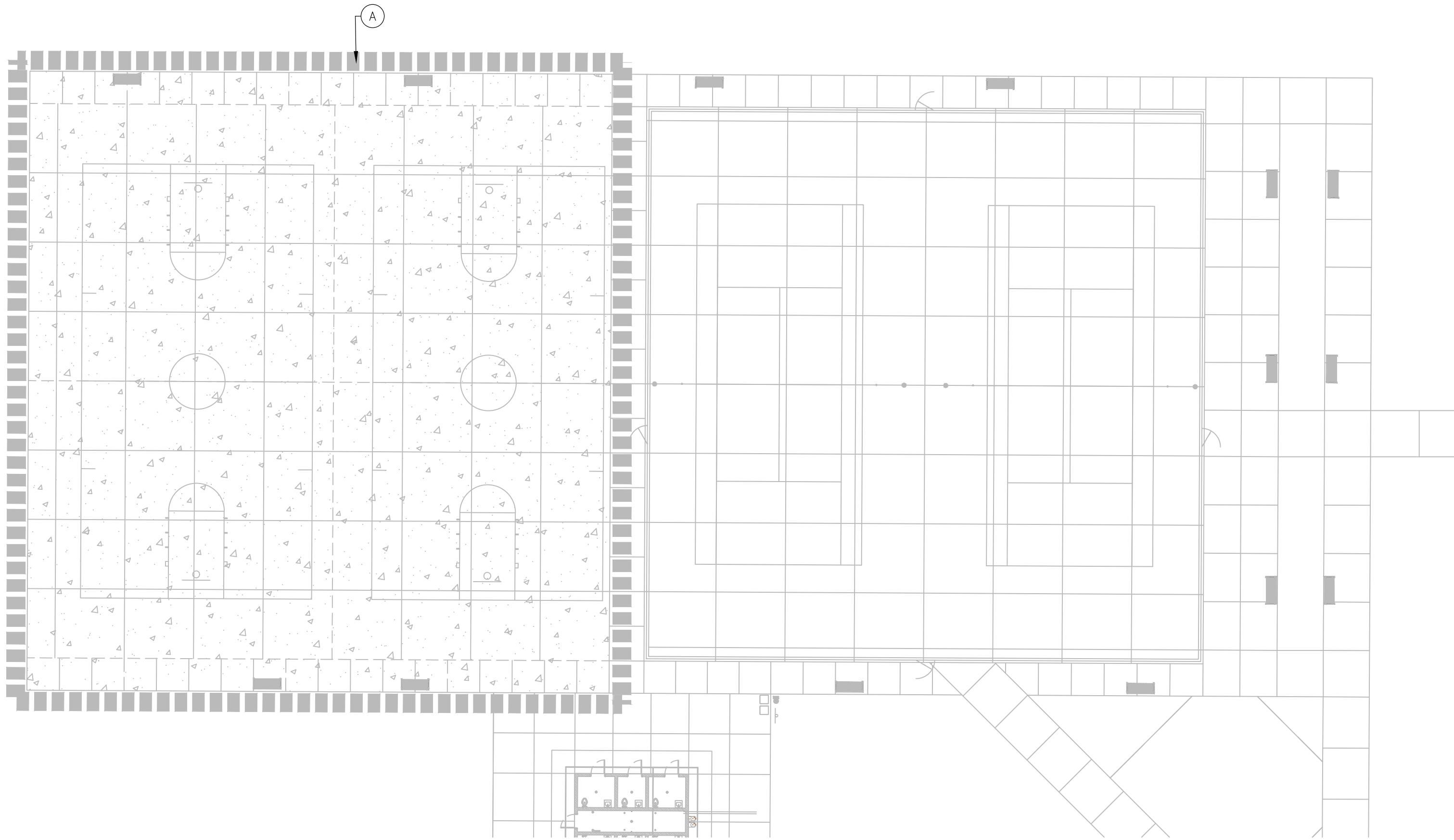
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IRRIGATION PLAN

PROJECT# 122061
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SUBMITTAL

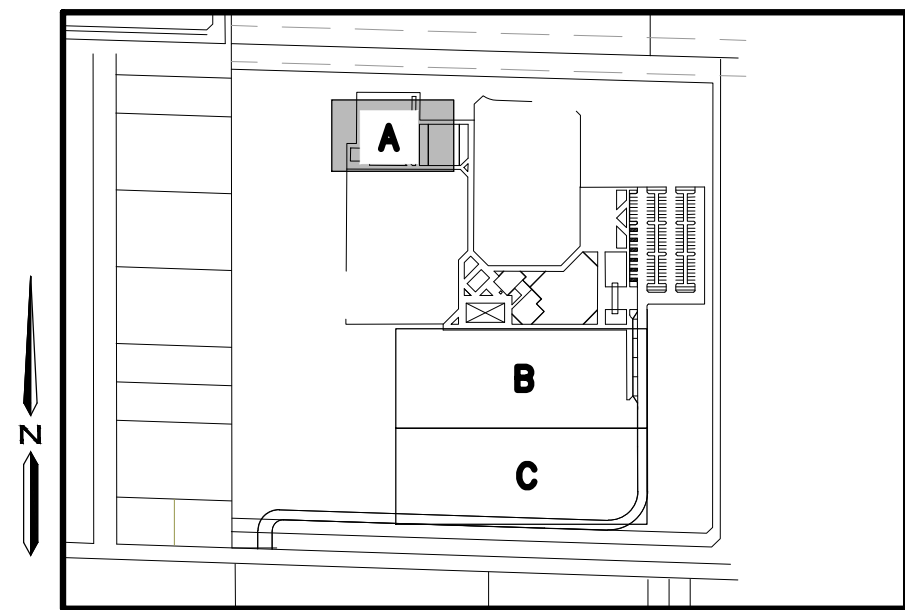
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L3.8
42 of 75



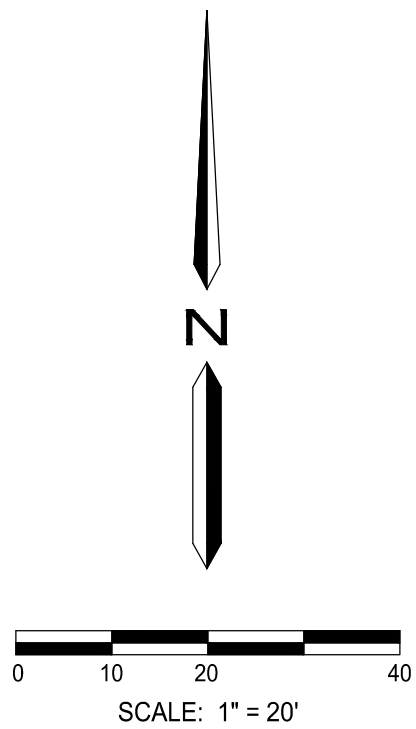
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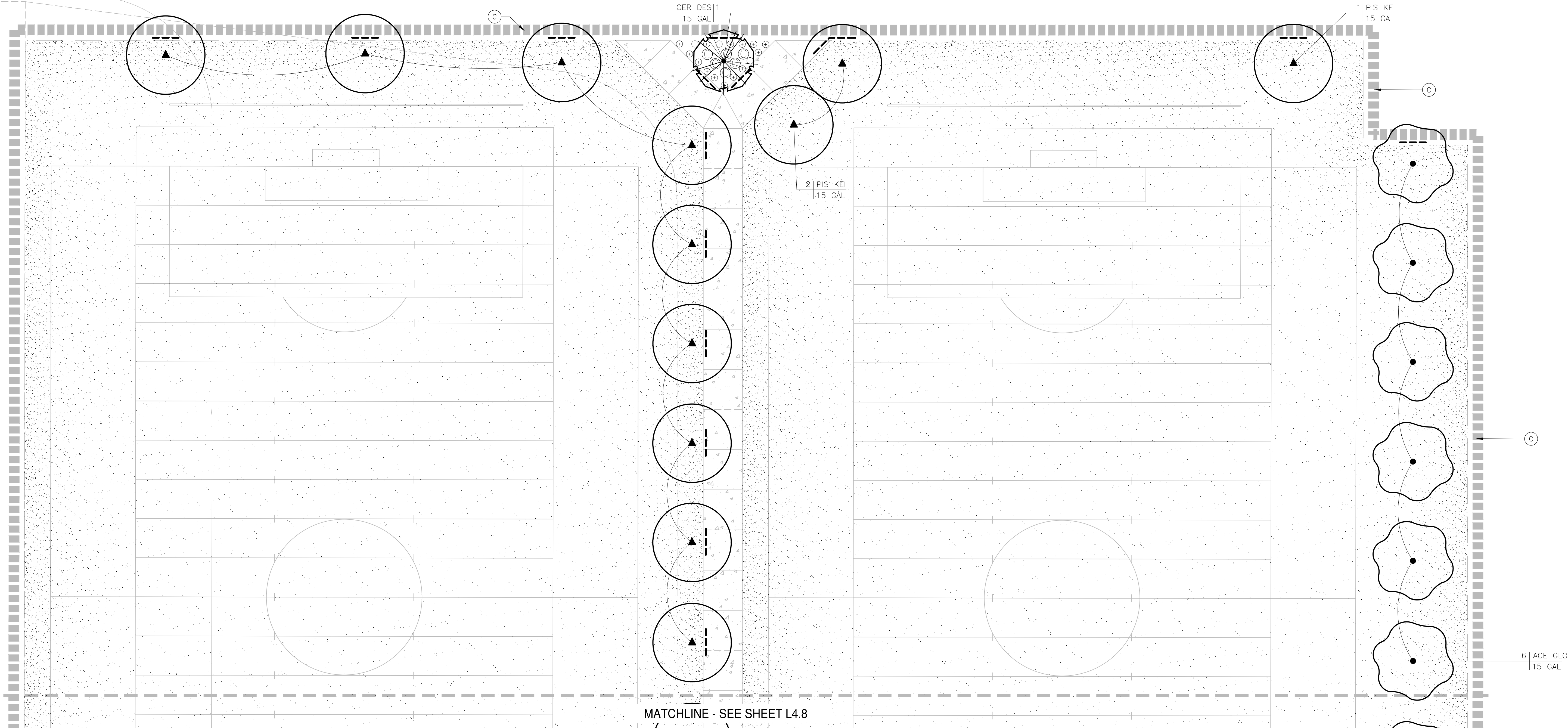
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PLANTING PLAN

**PROJECT# 122061
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SUBMITTAL**

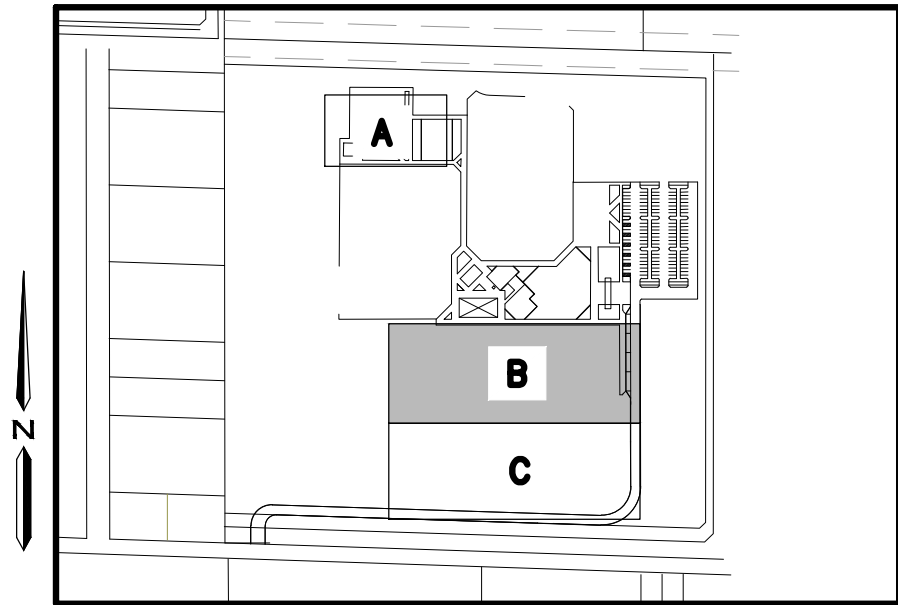
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Sheet
L4.6
48 of 75



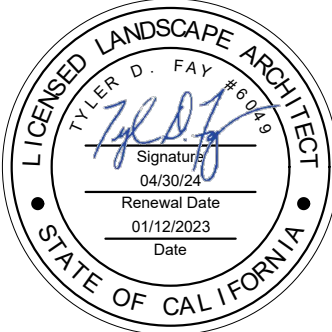
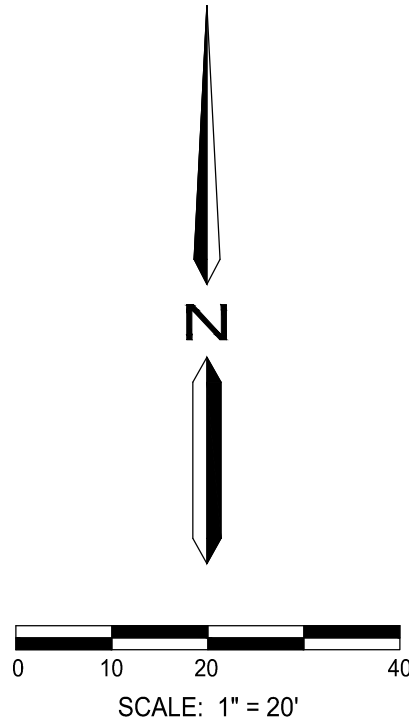
PLANT LEGEND - ADDED SCOPE AREAS ONLY (SHEETS L4.6-L4.8)							
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	APPROX. SPACING	WATER USE	QTY.	REMARKS
TREES							
ACE GLO	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY MAPLE	24" BOX	PER PLAN	MODERATE	10	F&B, FGR, MATCH
CER DES	CERCIDIUM X 'DESERT MUSEUM'	DESERT MUSEUM PALO VERDE	24" BOX	PER PLAN	MODERATE	1	F&B, FGR, MATCH
PIS KEI	PISTACIA CHINENSIS 'KEITH DAVEY'	KEITH DAVEY CHINESE PISTACHE	24" BOX	PER PLAN	LOW	19	F&B, FGR, HI BR, MATCH
SHRUBS							
☉	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	FEATHER REED GRASS	1 GAL	48" O.C.	LOW	6	F&B, FGR, MATCH
⊙	HESPERALOE PARVIFLORA 'PERPA'	BRAKELIGHTS RED YUCCA	1 GAL	30" O.C.	LOW	17	F&B, FGR, RED FLW, MATCH
TURF							
	TIFWAY 419 & TIFWAY II	HYBRID BERMUDA BLEND	HYDROSEED		MODERATE	226,209 SF	
MISCELLANEOUS							
	ROOT BARRIER (DEEP ROOT UB24-2, OR EQUAL)					208 LF	DEEPROOT OR EQUAL. WWW.DEEPROOT.COM, P: (800) 458-7668.

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COMMUNITY PARK-42
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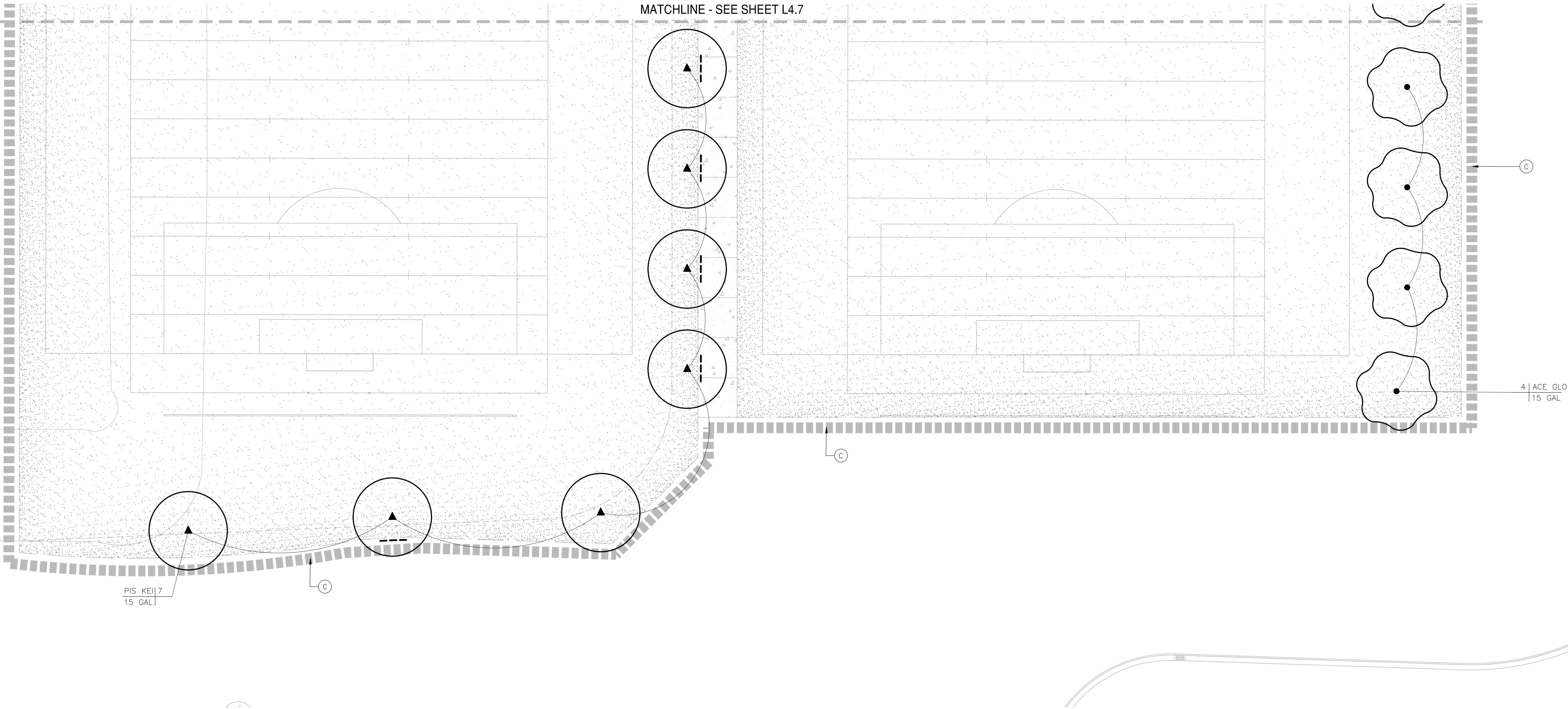
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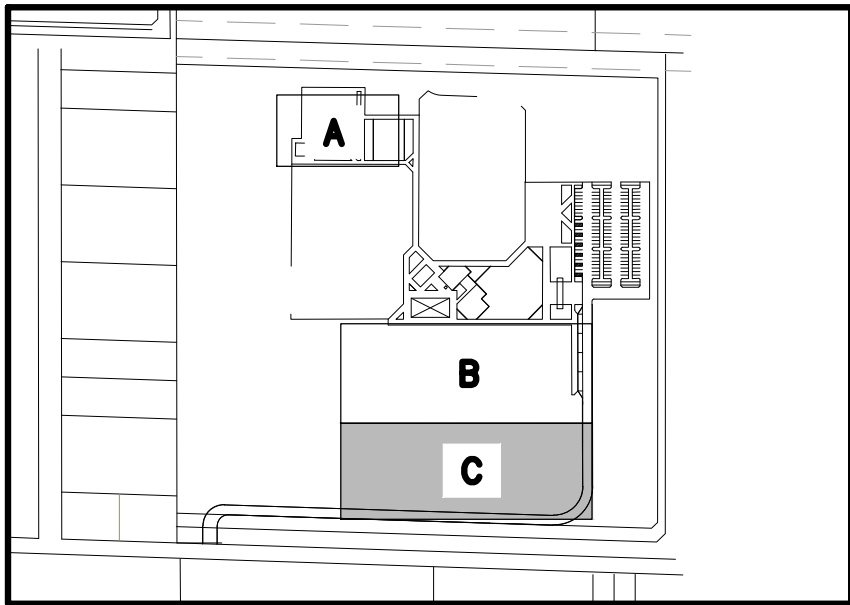
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48 of 75



SHEET NOTES (NOT ALL MAY APPEAR ON THIS SHEET)

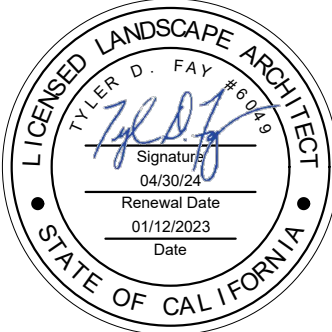
- (A) NO NEW PLANTING IS PROPOSED FOR THIS AREA UNDER THIS SCOPE OF WORK.
- (B) FOR GENERAL PLANTING NOTES, SEE SHEET L4.0 OF BASE BID IMPROVEMENT PLANS, DATED 2/3/23.
- (C) SEE BASE BID IMPORVEMENT PLANS FOR CONTINUATION AND ADDITIONAL INFORMATION



LOCATION MAP

1"=500'

ADDITIONAL SCOPE
BID DOCUMENTS



NO.	DATE	BY	REVISION MADE
1	6/16/23	TF	ADDED SCOPE AREA REVISIONS

Underground Service Alert

TWO DAYS BEFORE YOU DIG

Call : TOLL FREE 1 (800) 227 - 2600

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL TAKE PREFERENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED ON THE SITE. ANY DISCREPANCY SHALL BE BROUGHT TO NOTICE OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORK.

City of Merced
"Gateway to Yosemite"

ENGINEERING
ENGINEERING PROJECTS AND STANDARDS
678 W. 18th Street (209) 385-6846

PLANTING PLAN

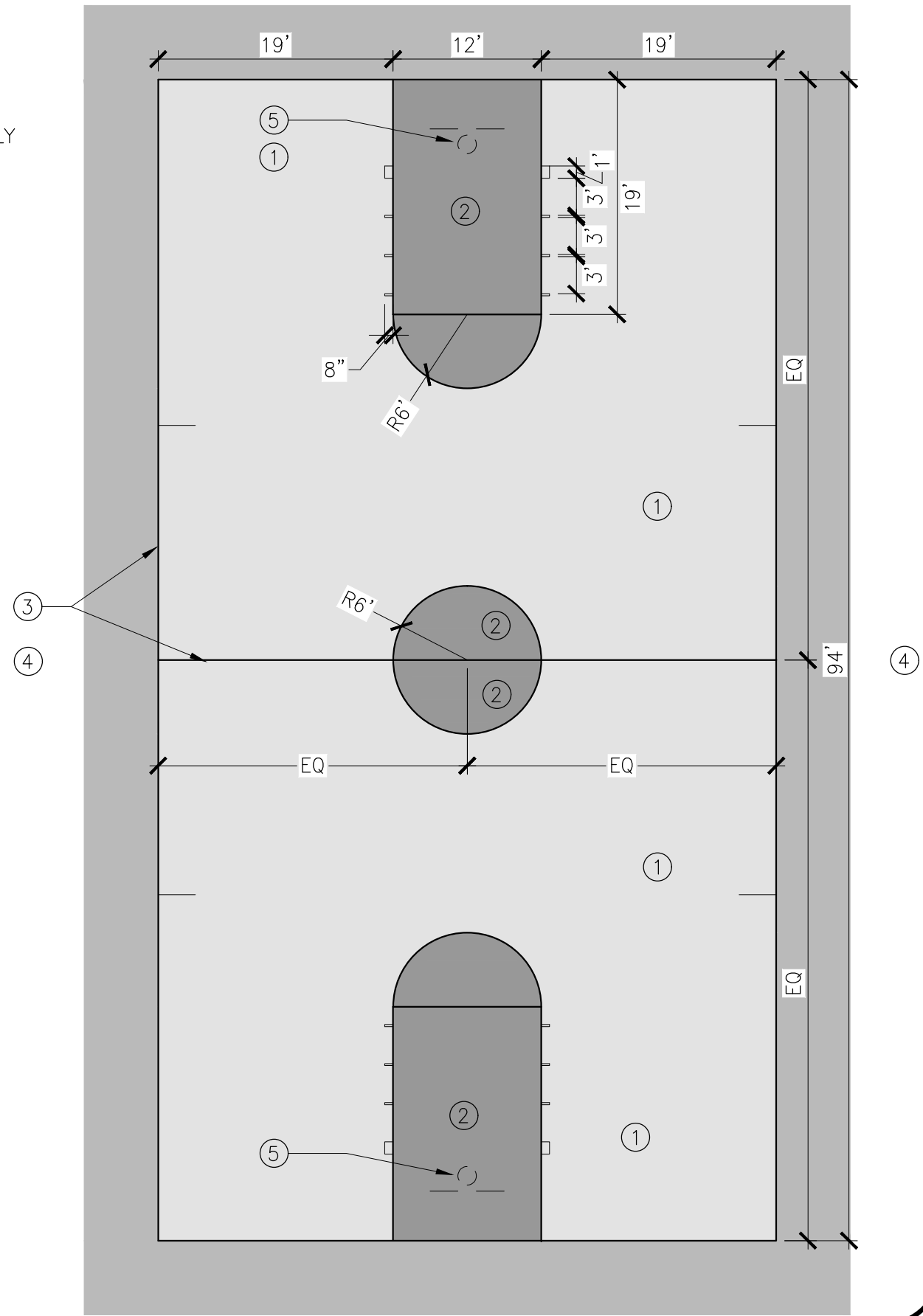
PROJECT# 122061
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SUBMITTAL

DR. BY: TF / YC
DATE: 01/12/2023
CH. BY: SK/CK/JN
DATE: 01/12/2023
SCALE: 1"=20'

File No. 40320-PT.DWG
Sheet
L4.8
48 of 75

- 1 PAINTED CONCRETE - BLUE (MAIN COURT)
- 2 PAINTED CONCRETE - GREEN (KEY & CENTER COURT)
- 3 PAINTED CONCRETE - WHITE (APPLY TO STRIPING)
- 4 PAINTED CONCRETE - GREY (AREA SURROUNDING COURT)
- 5 BASKETBALL HOOP SEE DETAIL 1/THIS SHEET

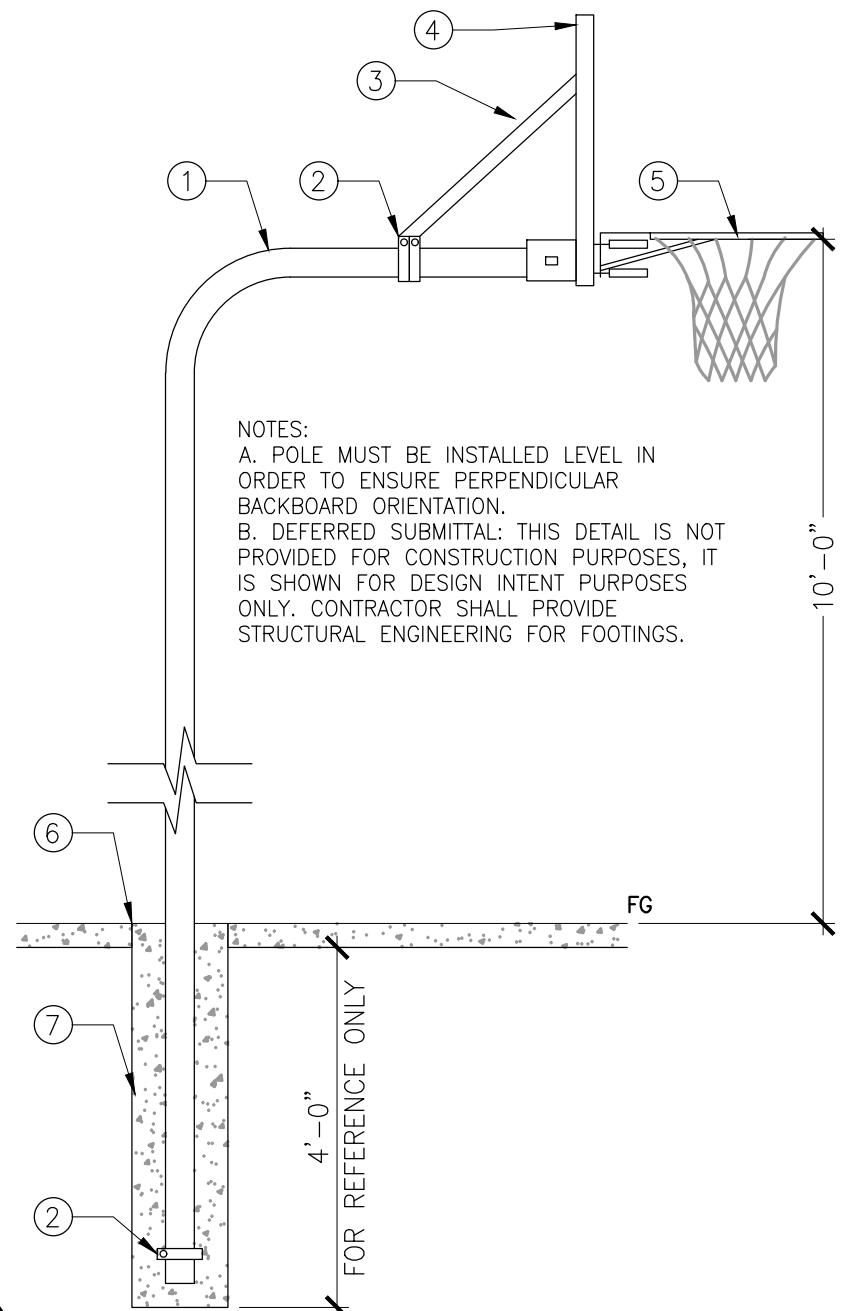
NOTE:
A. ALL STRIPING WIDTH 2" TYP.



2 BASKETBALL COURT LAYOUT PLAN

NOT TO SCALE

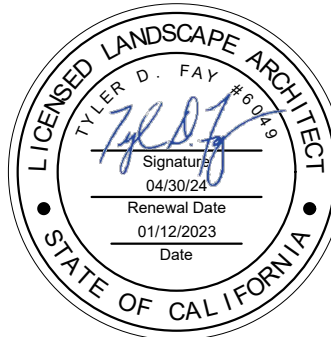
- 1 5/8" O.D. HOT DIPPED GALVANIZED POLE
- 2 1" DIA. PIPE WELDED TO SIDE OF POST TO PREVENT ROTATION WHILE IN-GROUND
- 3 BACKBOARD BRACE
- 4 GRAFFITI RESISTANT BACKBOARD (SEE SITE FURNISHINGS PLAN FOR MODEL)
- 5 RIM & NET (SEE SITE FURNISHINGS PLAN FOR MODEL)
- 6 CONCRETE PAVING, SEE PLANS AND DETAIL 1, SHEET L5.8 FOR ADDITIONAL INFORMATION.
- 7 12" DIA 3,000 PSI CONCRETE FOUNDATION. INSTALL PER MANUFACTURER RECOMMENDATIONS.



NOTES:
A. POLE MUST BE INSTALLED LEVEL IN ORDER TO ENSURE PERPENDICULAR BACKBOARD ORIENTATION.
B. DEFERRED SUBMITTAL: THIS DETAIL IS NOT PROVIDED FOR CONSTRUCTION PURPOSES. IT IS SHOWN FOR DESIGN INTENT PURPOSES ONLY. CONTRACTOR SHALL PROVIDE STRUCTURAL ENGINEERING FOR FOOTINGS.

1 BASKETBALL STANDARD INSTALLATION

NOT TO SCALE



BID SUBMITTAL

NO.	DATE	BY	REVISION MADE
1	6/16/23	TF	ADDED SCOPE AREA REVISIONS

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ENGINEERING PROJECTS AND STANDARDS
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CONSTRUCTION DETAILS














PROJECT# 122061
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SUBMITTAL

DR. BY: TF / YC
DATE: 01/12/2023
CH. BY: SK/CK/JN
DATE: 01/12/2023
SCALE: NO SCALE

File No. 40320-DT.DWG
Sheet
L5.10
65 of 75

F:\22\755 CP-42 COMMUNITY PARK MERCED\ENGR\SHEETS\755_E0.1 TITLE SHEET.DWG
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GENERAL ELECTRICAL LEGEND

	CONCRETE PULL BOX -SIZE AS NOTED - LIDS AS NOTED 'P' POWER, 'S' SIGNAL, 'F' FIRE ALARM & 'D' DATA; '-T' DENOTES TRAFFIC LID
	CONDUIT -SURFACE MOUNTED OR ABOVE CEILING -EMT WITH COMPRESSION FITTING UNLESS NOTED ON PLANS
	CONDUIT -CONCEALED BELOW FLOOR IN EMT OR UNDERGROUND IN PVC SCH 40 WITH IMC ELBOWS
	DUCT BANK - POWER AND COMMUNICATION. SEE DETAILS FOR CONDUIT ARRANGEMENT
	HOMERUN TO PERSPECTIVE PANEL OR CABINET -BRANCH CIRCUIT WITH OUT FURTHER DESIGNATION IS A #12 WIRE CIRCUIT
	FLEX
	TERMINAL CABINET
	PANEL BOARD -SEE SCHEDULE
	MOTOR/EXHAUST FAN -N.I.E.S. -CONNECT AS REQUIRED
	GFCI DUPLEX RECEPTACLE +15" A.F.F. FROM BOTTOM OF BOX U.O.N.
	GFCI QUADPLEX RECEPTACLE +15" A.F.F. FROM BOTTOM OF BOX U.O.N.
	MOTOR RATED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH -SIZE AS NOTED -30A. SHOWN

SEE FIXTURE SCHEDULE AND NOTES FOR EXACT CALL OUT & DESCRIPTION

	FIXTURE IDENTIFICATION -LETTER INDICATES FIXTURE TYPE -NUMERAL INDICATES LAMP QUANTITY AND WATTAGE
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ELECTRICAL COMPLIANCE NOTES

THE INTENT OF THE DRAWINGS AND SPECIFICATION IS TO CONSTRUCT THE PROPOSED BUILDING IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE FOLLOWING CODES AND REGULATIONS AS APPLICABLE:

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC)
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2019 CALIFORNIA BUILDING CODE (CBC)
PART 2, TITLE 24, CCR
BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC)
2019 CALIFORNIA ELECTRICAL CODE (CEC)
PART 3, TITLE 24, CCR
BASED ON THE 2017 NATIONAL ELECTRICAL CODE (NEC)
2019 CALIFORNIA MECHANICAL CODE (CMC)
PART 4, TITLE 24, CCR
BASED ON THE 2018 UNIFORM MECHANICAL CODE (UMC)
2019 CALIFORNIA PLUMBING CODE (CPC)
PART 5, TITLE 24, CCR
BASED ON THE 2018 UNIFORM PLUMBING CODE (UPC)
2019 CALIFORNIA FIRE CODE (CFC)
PART 9, TITLE 24, CCR
BASED ON THE 2018 INTERNATIONAL FIRE CODE (IFC)
2019 NFPA 72, NATIONAL FIRE ALARM & SIGNALING CODE
w/ CALIFORNIA AMENDMENTS.

UNLESS OTHERWISE STATED, IT IS INTENDED THAT THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN EFFECT ON THE DATE OF THE CONTRACT. NOTHING ON THE DRAWING IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE ABOVE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

GENERAL ELECTRICAL NOTES

- PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT EQUIPMENT, TRANSPORTATION AND ALL PERFORM ALL OPERATIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ALL ELECTRICAL WORK REQUIRED FOR THE COMPLETE AND OPERATING SYSTEMS AS OUTLINED WITHIN THE SCOPE OF WORK.
- UNDERWRITERS LABORATORIES, INC., SHALL MEET THEIR REQUIREMENTS AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY.
- THE SIZE AND LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE.
- CONDUCTORS SHALL BE COPPER CONDUCTORS TYPE AS NOTED ON CONSTRUCTION DOCUMENTS.
- ALL REQUIRED CONDUITS SHALL BE PROVIDED BY E.C. LOW VOLTAGE WIRING SHALL BE BY MECHANICAL CONTRACTOR, LINE VOLTAGE (50 VOLTS OR MORE) SHALL BE BY ELECTRICAL CONTRACTOR.
- DO NOT PENETRATE STRUCTURAL MEMBERS, INCLUDING BEAMS, COLUMNS, OR FOOTINGS, WITHOUT PRIOR WRITTEN CONSENT OF THE CITY'S STRUCTURAL ENGINEER. SHOULD IT BECOME NECESSARY TO PENETRATE SUCH MEMBERS, NOTIFY THE CITY IN WRITING WITHOUT DELAY, PRIOR TO PROCEEDING WITH CONSTRUCTION AROUND SUCH MEMBERS.
- ALL ELECTRICAL WORK SHALL CONFORM WITH THE 2019 CALIF. ELECTRICAL CODE CALIFORNIA TITLE 17, 19 & 24 ALONG WITH N.F.P.A. STANDARDS AND THE STATE FIRE MARSHAL'S REQUIREMENTS.
- ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF STATE & GOVERNING LOCAL FIRE CODES AND BUILDING CODES.
- WHERE EXISTING CONSTRUCTION IS CUT, DAMAGED, OR REMODELED, PATCH WITH MATERIALS TO MATCH IN KIND, QUALITY, AND PERFORMANCE.
- CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
- CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION.
- ALL CONDUIT SHALL BE TYPE EMT CONDUIT UNLESS OTHERWISE NOTED. TYPE MC CABLE SHALL NOT BE USED UNLESS SPECIFICALLY NOTED ON THE CONSTRUCTION DOCUMENTS.
- OPERATED DEVICES SUCH AS, BUT NOT LIMITED TO, TELE/PHONE OUTLETS, RECEPTACLE OUTLETS AND LIGHT SWITCHES INSTALLED IN AREAS NOT RESTRICTED TO AUTHORIZED MAINTENANCE PERSONAL SHALL BE MOUNTED AT A MINIMUM OF +15" AFF., AS MEASURED FROM THE BOTTOM OF THE DEVICE OUTLET BOX, AND MAXIMUM OF +48" AFF., AS MEASURED FROM THE TOP OF THE DEVICE OUTLET BOX.
- ALL CHANGE ORDER PROPOSALS AND CHANGE ORDERS, BOTH ADDITIVE AND DEDUCTIVE, SHALL BE BASED UPON AND BE ACCOMPANIED BY A DETAILED MATERIALS AND LABOR BREAKDOWN FOR EACH SPECIFIC TASK AND/OR ITEM. THE BREAKDOWN SHALL INCLUDE ACTUAL MATERIALS COSTS PLUS OVERHEAD AND PROFIT, AS WELL AS LABOR UNITS BASE UPON THE MOST RECENT NECA MANUAL OF LABOR UNITS (NECA INDEX #4090) OR EQUIVALENT PUBLICATION FOR EACH SPECIFIC TASK AND ITEM. LABOR COSTS SHALL BE COMPUTED AS OUTLINED WITHIN THE GENERAL CONDITIONS, BASED UPON THE NECA LABOR TABLES FOR EACH TASK REQUIRED. MATERIALS COSTS SHALL INCLUDE ACTUAL CONTRACTOR INVOICE PLUS NO MORE THAN 15% MARKUP. THE OWNER AND CONTRACTOR AGREE TO THE ABOVE CHANGE ORDER COST PROCEDURE, FOR BOTH ADDITIVE AND DEDUCTIVE CHANGE ORDERS.
- ALL PERSONNEL WORKING WITH ENERGIZED EQUIPMENT WITHIN THE RESTRICTED ZONE PER NFPA-70E SHALL COMPLY WITH ALL NFPA-70E AND OSHA REQUIREMENTS AND BE ARC FLASH SAFETY CERTIFIED.

ELECTRICAL ABBREVIATIONS

Δ	DELTA CONNECTED	CATV	CABLE TELEVISION	ENCL	ENCLOSURE	IDF	INTERMEDIATE DISTRIBUTION FRAME	MIN	MINIMUM	PS	PRESSURE SWITCH	TH	THERMOSTAT
Y	WYE CONNECTED	CKT	CIRCUIT	EP	EXPLOSION PROOF	INCAN	INCANDESCENT	MPOE	MAIN POINT OF ENTRY	PWR	POWER	TRANSF	TRANSFORMER
0	PHASE	CLG	CEILING	EQUIP	EQUIPMENT	IDC	INITIATING DEVICE CIRCUIT	MSB	MAIN SWITCHBOARD			TYP	TYPICAL
&	AND	CO	CONDUIT ONLY	ETC	ET CETERA	IN	INCHES	N	NEUTRAL	(R)	REMOVE(D)	TSP	TWISTED SHIELDED PAIR
@	AT	COMM	COMMUNICATION	EVAP	EVAPORATOR	INST	INSTANTANEOUS	(N)	NEW	RA	REMOTE ANNUNCIATOR	THRU	THROUGH
'	FEET	CONC	CONCRETE					NA	NON-AUTOMATIC	RD	ROAD		
"	INCHES	CONN	CONNECT	(F)	FUTURE	J	JUNCTION BOX	NAC	NOTIFICATION APPLIANCE CIRCUIT	REQD	REQUIRED	UG	UNDERGROUND
A	AMPERES	CONT	CONTINUATION OR CONTINUED	FA	FIRE ALARM	KV	KILOVOLTS	NC	NORMALLY CLOSED	REQMTS	REQUIREMENTS	UNO	UNLESS NOTED OTHERWISE
AC	ALTERNATING CURRENT	COORD	COORDINATE	FACP	FIRE ALARM CONTROL PANEL	KVA	KILOVOLT AMPERES	NIES	NOT IN ELECTRICAL SECTION	RG	REDUNDANT GROUND PATH	V	VOLTS
ACT	ABOVE COUNTERTOP/BACKSPLASH	CR	CONTROL RELAY	FAT	FIRE ALARM TERMINAL CABINET	KW	KILOWATTS	NIC	NOT IN ELECTRICAL CODE	RM	ROOM	VA	VOLT AMPS
ADJ	ADJACENT, ADJOINING	CT	CURRENT TRANSFORMER	FIXT	FIXTURE	L	LINE	NO.	NUMBER	RECP	RECEPTACLE	VFD	VARIABLE FREQUENCY DRIVE
AFD	ADJUSTABLE FREQUENCY DRIVE	COMP	COMPRESSOR	FLA	FULL LOAD AMPS	LB	ELBOW	NO	NORMALLY OPEN	RT	RAIN TIGHT	VM	VOLT METER
AFF	ABOVE FINISHED FLOOR	CU	COPPER	FLEX	FLEXIBLE	LF	LINEAR FEET	NL	NIGHT LIGHT				
AL	ALUMINUM	DC	DIRECT CURRENT	FLUOR	FLUORESCENT	LOS	LOCKOUT-STOP			SCH	SCHEDULE	W	WIRE
APPROX	APPROXIMATE	DET	DETAIL	FS	FLOW SWITCH	LOH	LOCK-OFF-HALT	OC	ON CENTER	SEC	SECONDS, SECONDARY	W/	WITH
ARCH	ARCHITECT	DISC	DISCONNECT	FOR	FORWARD-OFF-REVERSE	LV	LOW VOLTAGE	OH	OVERHEAD	SHT	SHEET	W/O	WITHOUT
AUTO	AUTOMATIC	DIST	DISTRIBUTION	FT	FEET			OL	THERMAL OVERLOAD RELAY	SIG	SIGNAL	WP	WEATHERPROOF
AUX	AUXILIARY	DSA	DIVISION OF THE STATE ARCHITECT	GALV	GALVANIZED	M	MOTOR	OT	OVER TEMPERATURE	SPECS	SPECIFICATIONS	WHD	WATT HOUR DEMAND METER
ALT	ALTERNATE	DWG	DRAWING	GND	GROUND	MAX	MAXIMUM	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT	SW	SWITCH	WM	WATT METER
AWG	AMERICAN WIRE GAUGE			GC	GENERAL CONTRACTOR	MCA	MINIMUM CIRCUIT AMPS			SWD	SWITCHED	WH	WATER HEATER
B	BARE	(E), EXIST	EXISTING	GC	GENERAL CONTRACTOR	MCC	MOTOR CONTROL CENTER	PA	PUBLIC ADDRESS	SP	SPARE	XFMR	TRANSFORMER
BC	BARE COPPER GROUND	EL, ELEV	ELEVATION	HI	HIGH	MCM	THOUSAND CIRCULAR MILLS	PB	PULL BOX	STD	STANDARD	(XR)	REMOVE AND RELOCATE(D)
BKBD	BACKBOARD	EL	EMERGENCY LIGHT	HOA	HAND-OFF-AUTO	MCP	MOTOR CIRCUIT PROTECTOR	PNL	PANEL	STR	STRANDED		
BRKR	BREAKER	ELECT	ELECTRICAL	HOS	HAND-OFF-STANDBY	MDF	MAIN DISTRIBUTION FRAME	PH	PHASE	SWBD	SWITCHBOARD		
BLDG	BUILDING	EMS	ENERGY MANAGEMENT SYSTEM	HV	HIGH VOLTAGE	MECH	MECHANICAL	PR	PAIR	TELE	TELEPHONE		
C	CONDUIT OR CONTRACTOR	EMT	ELECTRICAL METALLIC TUBING	HVAC	HEATING, VENTILATION, AIR CONDITIONING	MFG	MANUFACTURER	PRI	PRIMARY	TEMP	TEMPERATURE		
CAB	CABINET	EOL	END OF LINE							TOA	TEST OFF AUTOMATIC		



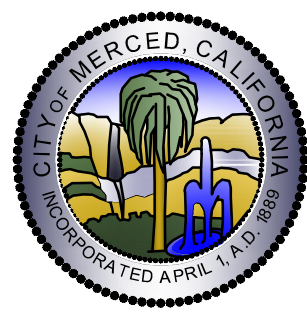
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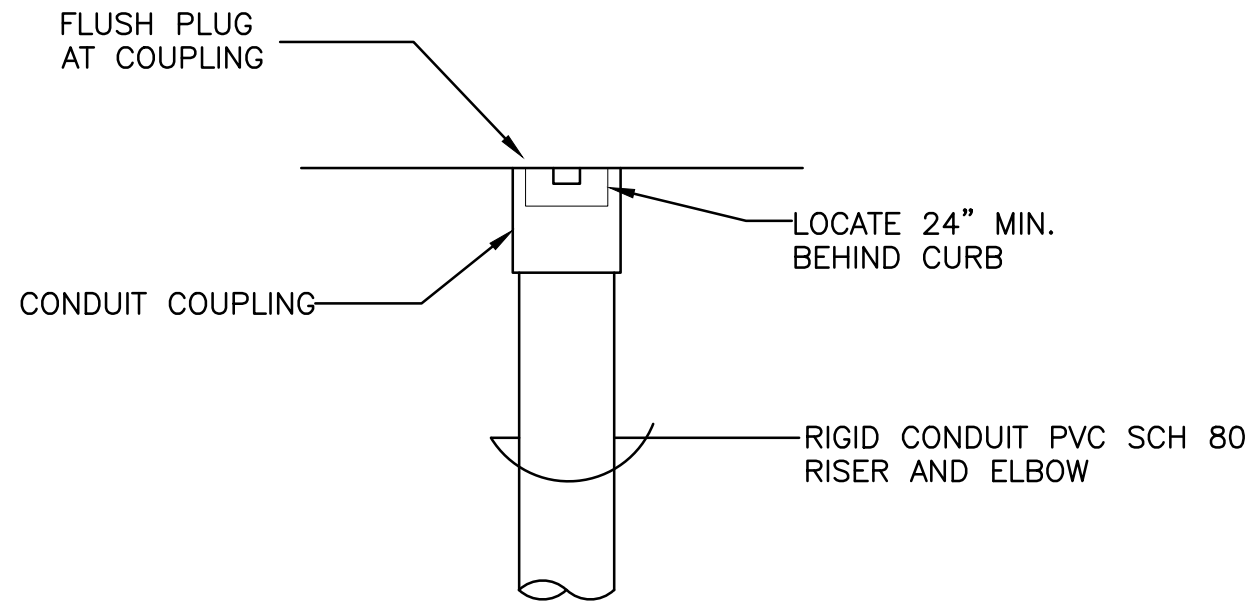
GENERAL NOTES AND ABBREVIATIONS

PROJECT# 40320
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SET





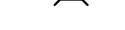
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F:\22\755 CP-42 COMMUNITY PARK MERCED\ENGR\ SHEETS\755_E1.0 PLOT PLANS - POWER.DWG cmenendez 07/05/23 2:13:39 PM



1 FUTURE EV CHARGER AT WALKWAY
SCALE: N.T.S.

LIGHTING FIXTURE SCHEDULE							
SYMBOL	LABEL		MANUFACTURER	CATALOG NUMBER	NUMBER LAMPS	LUMENS PER LAMP	WATTAGE
	A		STERNBERG	FIXTURE: A882R "AUBURN" LAMP:VEGA #D4A-30-G-40K-T3M (30W 5100lm) POLE: "BIRMINGHAM" 7716-T	1	4112	39.6
	B		Leotek Electronics USA LLC	FIXTURE: AR13-48N-MV-NW-2-BK-100-MSL7 PTF1 POLE: AMERON "N" SERIES, 26' POLE, 11GA. W/TENON ADAPTER	1	10863	73
	C		Leotek Electronics USA LLC	FIXTURE: AR13-48N-MV-NW-4-BK-100-MSL7 PTF1 POLE: AMERON "N" SERIES, 26' POLE, 11GA. W/TENON ADAPTER	1	11023	73
	D		Leotek Electronics USA LLC	FIXTURE: (4X) AR13-48N-MV-NW-4-BK-100-MSL7 PTF4 POLE: AMERON "N" SERIES, 26' POLE, 11GA. W/TENON ADAPTER	1	11023	292
	F		KENALL	#MLHA12-48-F-LG-CP-45L40K -DCC-1-120-MS	1	5,300	45

ELECTRICAL VAULT SCHEDULE		
LOCATION	POWER	COMM.
EV1	2X3	2X3
EV2	3X5	2X3
EV3	3X5	2X3
EV4	2X3	2X3
EV5	2X3	2X3
EV6	2X3	2X3
EV7	2X3	2X3
EV8	2X3	2X3
EV9	N48	N36
EV10	N16	N16
EV11	2X3	2X3
EV12	2X3	2X3

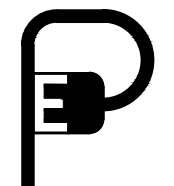
NOTE:
CONDUITS TYPES "H", "HL", & "L" TERMINATE IN POWER
CONDUITS TYPE "C" TERMINATE IN COMM.


CONDUIT & CABLE SCHEDULE

CONDUIT ID#	FROM	TO	CONDUIT QNTY	SIZE	TYPE	CONDUCTOR QNTY	SIZE	GND	CABLE QNTY	TYPE	NOTES
P 001	(E) MID VAULT	(N) MID XFMR PAD	1	4"	PVC 40				1	PULL ROPE	
H 001	(N) MID XFMR PAD	(N) MSB	2	4"	PVC 40	4	500MCM				
H 002	(N) MSB	(N) PANEL "HL1"	1	2"	RMC	4	#3/0	#6			[2]
H 003	(N) MSB	(N) XFMR "TX-LS"	1	1"	PVC 40	3	#6	#8			
H 004	(N) MSB	(N) XFMR "TX-LC"	1	3"	PVC 40	3	#3/0	#6			
H 005	(N) MSB	(N) XFMR "TX-LR"	1	2"	PVC 40	3	#1	#6			
H 006	(N) MSB	EV9/(F) EVC DISTRIB	1	3"	PVC 40				1	PULL ROPE	VIA EV2-EV3-EV4-EV5
H 007	(N) MSB	(N) IRRIG PUMP #1	1	1"	PVC 40	3	#4	#8			
H 008	(N) MSB	(F) IRRIG PUMP #2	1	1"	PVC 40				1	PULL ROPE	[4]
H 009	(N) MSB	(N) PANEL "HL2"	1	2"	RMC	4	#3/0	#6			[4]
HL 001	(N) GUTTER	EV4/(F) FIELD #1 LTG	1	3"	RMC						[2] VIA EV2-EV3
HL 002	(N) GUTTER	EV5/(F) FIELD #2 LTG	1	3"	RMC	12	#8	#8			[2] VIA EV2-EV3-EV4
HL 003	(N) GUTTER	EV8/(F) FIELD #3 LTG	1	3"	RMC	12	#6	#8			[2] VIA EV2-EV3
HL 004	(N) GUTTER	EV2/(F) FIELD #4 LTG	1	2"	RMC				1	PULL ROPE	[2]
HL 005	(N) GUTTER	EV2/(N) FIELD #5/6 LTG	2	2"	RMC	24	#6	#6			[2]
HL 006	(N) FIELD #2 POLE	EV6	1	1"	PVC 40	3	#8	#8			
HL 007	(N) FIELD #3 POLE	EV8	1	1"	PVC 40	3	#6	#8			
HL 010	(N) PED POLE	(N) PED POLE/EV#	1	1"	PVC 40	2	#4	#8			PATHWAY CIRCUIT
HL 010 A	(N) PED POLE	STUB	1	1"	PVC 40						STUB& CAP 24" FROM FOOTING
HL 011 A	(N) PANEL "HL1"	EV2	1	2"	PVC 40	4	#4	#8			CKTS. HL1-1,2,3
HL 011 B	EV2	EV3	1	2"	PVC 40	6	#4	#8			CKTS. HL1-1,3
HL 012	(N) GUTTER	EV1	2	2"	RMC				1	PULL ROPE	[1][2]
HL 013	(N) FIELD #5 POLE	EV11	1	1"	PVC 40	3	#8	#8			
HL 014	(N) FIELD #5/6 POLE	EV11	1	1"	PVC 40	6	#8	#8			
HL 015	(N) FIELD #6 POLE	EV2	1	1"	PVC 40	3	#8	#8			
L 001	(N) XFMR "TX-LS"	(N) PANEL "LS"	1	1 1/2"	LFMC	4	#2	#8			
L 002	(N) XFMR "TX-LC"	(N) PANEL "LC"	1	2 1/2"	LFMC	4	#3/0	#6			[3]
L 003	(N) XFMR "TX-LR"	(N) PANEL "LR"	1	1 1/2"	LFMC	4	#2	#8			[3]
L 004	(N) PANEL "LS"	IRRIG. CONTROLLER	1	3/4"	RMC	2	#12	#12			[2]
L 005	(N) PANEL "LS"	EV1	2	1 1/2"	RMC				1	PULL ROPE	[1][2]
L 020	(F) EV CHARGER	EV9/(F) EVC DISTRIB	1	1 1/2"	PVC 40				1	PULL ROPE	TERMINATE IN FIELD PER 1/E1.0
L 030 A	(N) PANEL "LC"	EV5	1	2"	PVC 40	8	#6	#10			RECP CKTS (X4)
L 030 B	EV5	PICNIC SHELTER	1	1 1/4"	PVC 40	2	#10	#10			LTG CKT
L 030 C	EV5	PICNIC SHELTER	1	1 1/4"	PVC 40	4	#6	#10			RECP CKT (X2)
L 031	(N) PANEL "LC"	EV5	2	2"	PVC 40				1	PULL ROPE	LTG CKT
L 032	EV5	EV10	1	2"	PVC 40				1	PULL ROPE	VIA EV8
L 040 A	(N) PANEL "LR"	EV7	1	2"	PVC 40	2	#6	#10			RECP CKT
L 040 B	EV7	PICNIC SHELTER	1	1"	PVC 40	2	#6	#10			LTG CKT
L 041	(N) PANEL "LR"	EV7	2	2"	PVC 40	2	#10	#10			RECP CKT
C 001	EV1	EV2	2	2"	PVC 40				1	PULL ROPE	[1]
C 002	EV2	EV3	2	2"	PVC 40				1	PULL ROPE	[1]
C 003	EV3	EV9	2	2"	PVC 40				1	PULL ROPE	[1]
C 004	EV3	EV4	2	2"	PVC 40				1	PULL ROPE	[1]
C 005	EV3	EV8	2	2"	PVC 40				1	PULL ROPE	[1]
C 006	EV4	EV5	2	2"	PVC 40				1	PULL ROPE	[1]
C 007	EV5	EV8	2	2"	PVC 40				1	PULL ROPE	[1]
C 008	EV8	EV10	2	2"	PVC 40				1	PULL ROPE	[1]
C 009	EV5	EV9	2	2"	PVC 40				1	PULL ROPE	[1]
C 010	(N) FIELD #2 POLE	EV5	1	1 1/2"	PVC 40				1	PULL ROPE	
C 011	(N) FIELD #3 POLE	EV8	1	1 1/2"	PVC 40				1	PULL ROPE	
C 012	EV6	EV7	2	2"	PVC 40				1	PULL ROPE	[1]
C 013	EV5	CONCESSION BLDG	2	2"	PVC 40				1	PULL ROPE	[1] STUB & CAP +6" AFF
C 014	EV7	RESTROOM BLDG	2	2"	PVC 40				1	PULL ROPE	[1] STUB & CAP +6" AFF
C 015	EV2	EV11	2	2"	PVC 40				1	PULL ROPE	[1]
C 016	EV11	EV12	2	2"	PVC 40				1	PULL ROPE	[1]
C 017	(N) FIELD #5 POLE	EV11	1	1 1/2"	PVC 40				1	PULL ROPE	
C 018	(N) FIELD #6 POLE	EV11	1	1 1/2"	PVC 40				1	PULL ROPE	
C 019	(N) FIELD #5 POLE	EV4	1	1 1/2"	PVC 40				1	PULL ROPE	
C 020	(N) FIELD #6 POLE	EV4	1	1 1/2"	PVC 40				1	PULL ROPE	
XH 001	(N) MSB	EV2	2	2"	PVC 40				1	PULL ROPE	[1] VIA EV1
XH 002	EV2	EV3	2	2"	PVC 40				1	PULL ROPE	[1]
XH 003	EV3	EV9	2	2"	PVC 40				1	PULL ROPE	[1]
XH 004	EV3	EV4	2	2"	PVC 40				1	PULL ROPE	[1]
XH 005	EV3	EV8	2	2"	PVC 40				1	PULL ROPE	[1]
XH 006	EV8	EV10	2	2"	PVC 40				1	PULL ROPE	[1]
XH 007	EV4	EV5	2	2"	PVC 40				1	PULL ROPE	[1]
XH 008	EV5	EV8	2	2"	PVC 40				1	PULL ROPE	[1]
XH 009	EV5	EV6	2	2"	PVC 40				1	PULL ROPE	[1]
XH 010	EV6	EV7	2	2"	PVC 40				1	PULL ROPE	[1]
XH 011	EV2	EV11	2	2"	PVC 40				1	PULL ROPE	[1]
XH 012	EV11	EV12	2	2"	PVC 40				1	PULL ROPE	[1]

NOTES:

- [1] = PROVIDE CONDUCTOR/CABLES IN ALL CONDUITS
- [2] = RACEWAY BELOW GRADE & NOT EXPOSED MAY BE PVC SCH 40
- [3] = PROVIDE FLEXIBLE LFMC CONNECTION AT TRANSFORMER
- [4] = CAP CONDUIT @ +6" AFF

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NO.	DATE	BY	REVISION MADE
A	2/3/23	CCM	ADDENDUM #3 REVISIONS
B	2/22/23	KLP	ADDENDUM #4 REVISIONS
1	6/16/23	KLP	ADDED SCOPE AREA REVISIONS

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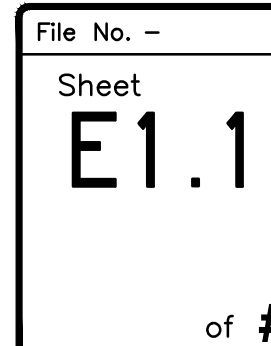
CONDUIT AND LIGHTNG SCHEDULES

PROJECT# 40320
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SET

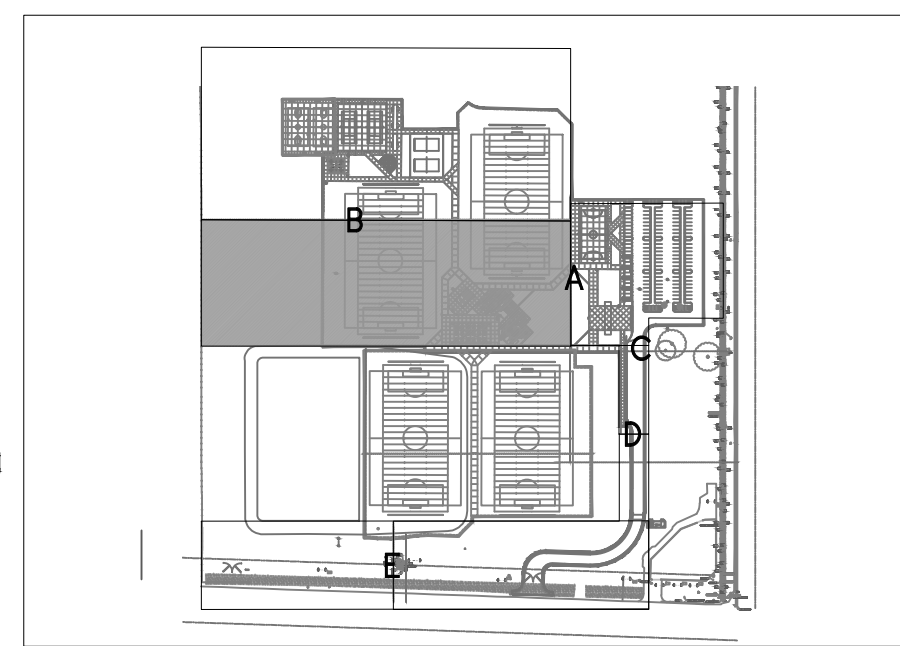
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of #

1"=500'



NO.	DATE	BY	REVISION MADE
A	2/3/23	CCM	ADDENDUM #3 REVISIONS
B	2/22/23	KLP	ADDENDUM #4 REVISIONS
1	6/16/23	KLP	ADDED SCOPE AREA REVISIONS



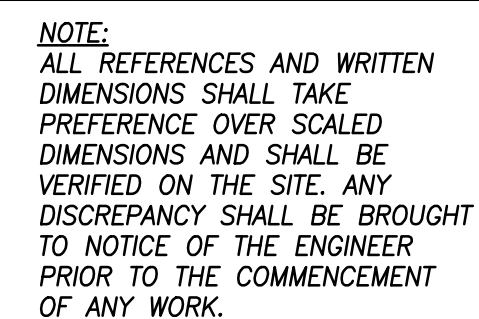
NOT ALL NOTES MAY BE USED ON THIS SHEET

- (N) 4" CGE PRIMARY PER PG&E GREENBOOK -COORDINATE ROUTING TO (E) POLE
- (N) N48 POWER & N36 COMM PULLBOXES PER DETAIL 2/E4.1.
- (N) N36 POWER PULLBOX PER DETAIL 2/E4.1.
- (N) POWER DUCT BANK PER DETAIL 3/E4.1.
- (N) POWER & COMMUNICATION DUCT BANK PER DETAIL 3/E4.1.
- (N) SPORT LIGHTING POLE LOCATION W/ (N) 1 1/2" TO NEAREST POWER PULLBOX
- (N) POWER & COMM FEEDS TO CONCESSION BUILDING
- (N) POWER & COMM FEEDS TO RESTROOM BUILDING
- (N) RESTROOM BUILDING W/(N) XFMR "TX-LR" & PANEL "LR"
- (N) CONCESSION BUILDING W/(N) XFMR "TX-LC" & PANEL "LC"
- (N) N48 POWER PULLBOX PER DETAIL 2/E4.1.

1"=500'



SCALE: 1"=20'-0"



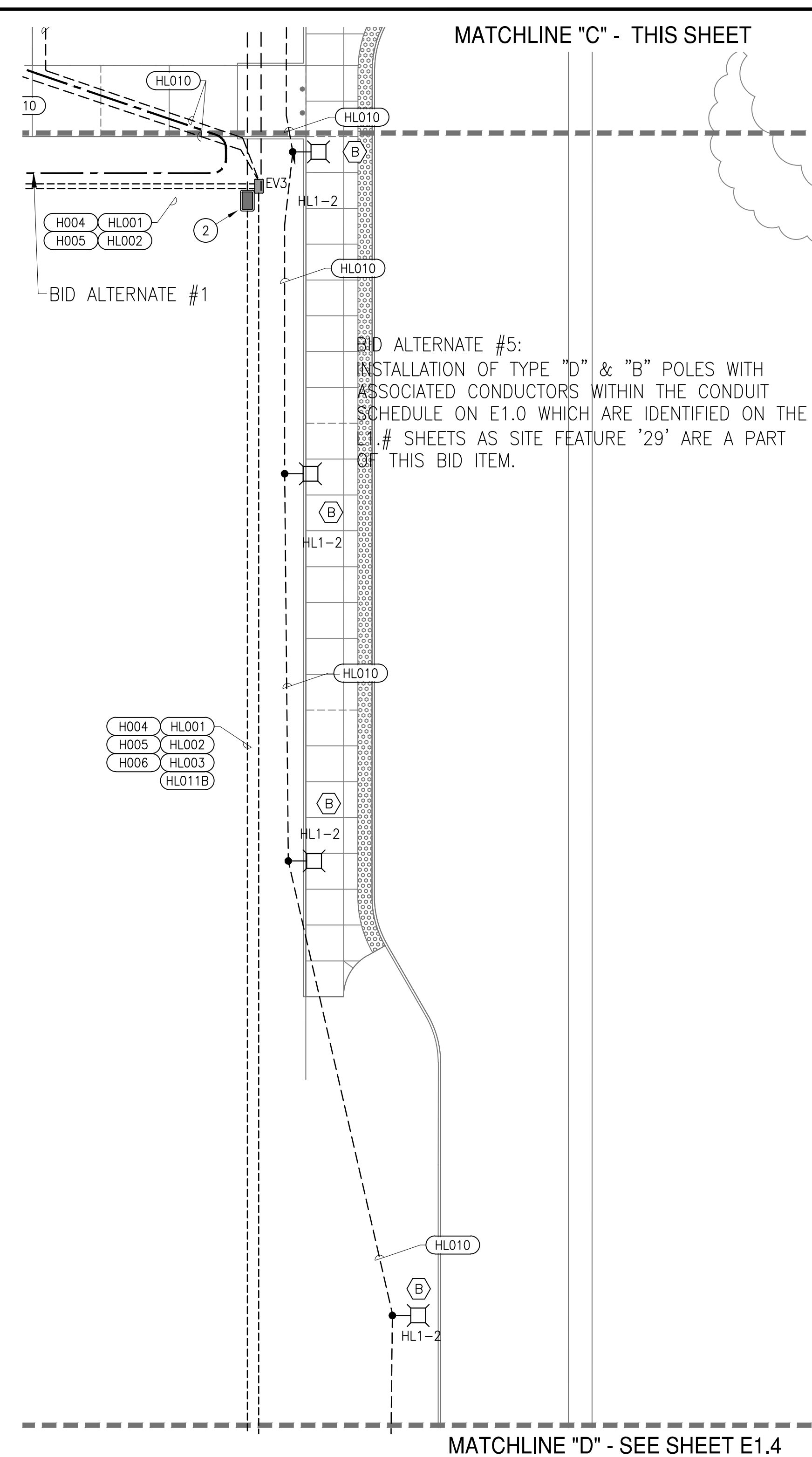
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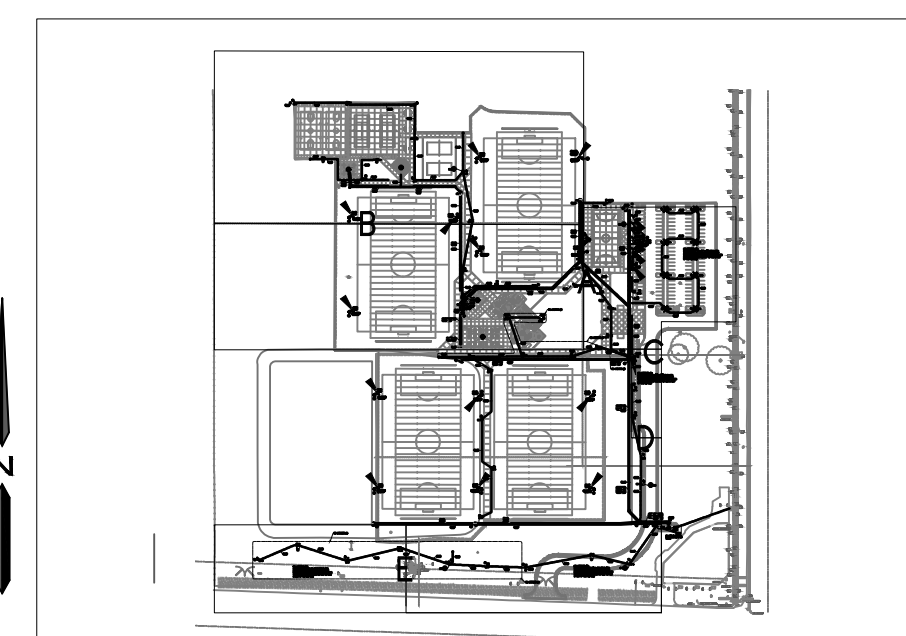
NO.	DATE	BY	REVISION MADE
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B	2/22/23	KLP	ADDENDUM #4 REVISIONS
1	6/16/23	KLP	ADDED SCOPE AREA REVISIONS



SCALE: 1"=20'-0"

*NOT ALL NOTES MAY BE USED ON THIS SHEET *

- (N) 4" CGR GREEN PRIMARY PER PG&E GREENBOOK --COORDINATE ROUTING TO (E) POLE
- (N) N48 POWER & N36 COMM PULLBOXES PER DETAIL 2/E4.1.
- (N) N36 POWER PULLBOX PER DETAIL 2/E4.1.
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- (N) POWER & COMMUNICATION DUCT BANK PER DETAIL 3/E4.1.
- (N) SPORT LIGHTING POLE LOCATION W/ (N) 1 1/2" TO NEAREST POWER PULLBOX
- (N) POWER & COMM FEEDS TO CONCESSION BUILDING
- (N) POWER & COMM FEEDS TO RESTROOM BUILDING
- (N) RESTROOM BUILDING W/(N) XFMR "TX-LR" & PANEL "LR"
- (N) CONCESSION BUILDING W/(N) XFMR "TX-LC" & PANEL "LC"
- (N) N48 POWER PULLBOX PER DETAIL 2/E4.1.



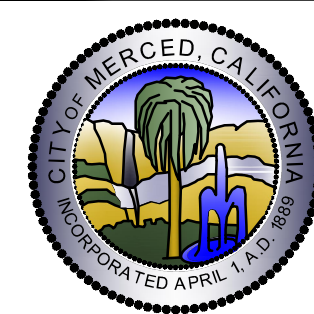
LOCATION MAP

1"=500'

NO.	DATE	BY	REVISION MADE
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1	6/16/23	KLP	ADDED SCOPE AREA REVISIONS



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AREA C - PARTIAL ELECTRICAL PLAN

PROJECT# 40320
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SET

DR. BY: XX
DATE: MO/DY/YEAR
CH. BY: ----
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of #

File No. —
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E1.4
of 7

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- ##NOTES:
- *NOT ALL NOTES MAY BE USED ON THIS SHEET*

1.

(N) 4"C PG&E PRIMARY PER PG&E GREENBOOK -COORDINATE ROUTING TO (E) POLE

2.

(N) N48 POWER & N36 COMM PULLBOXES PER DETAIL 2/E4.1.

3.

(N) N36 POWER PULLBOX PER DETAIL 2/E4.1.

4.

(N) POWER DUCT BANK PER DETAIL 3/E4.1.

5.

(N) POWER & COMMUNICATION DUCT BANK PER DETAIL 3/E4.1.

6.

(N) SPORT LIGHTING POLE LOCATION W/ (N) 1 1/2"C TO NEAREST POWER PULLBOX

7.

(N) POWER & COMM FEEDS TO CONCESSION BUILDING

8.

(N) POWER & COMM FEEDS TO RESTROOM BUILDING

9.

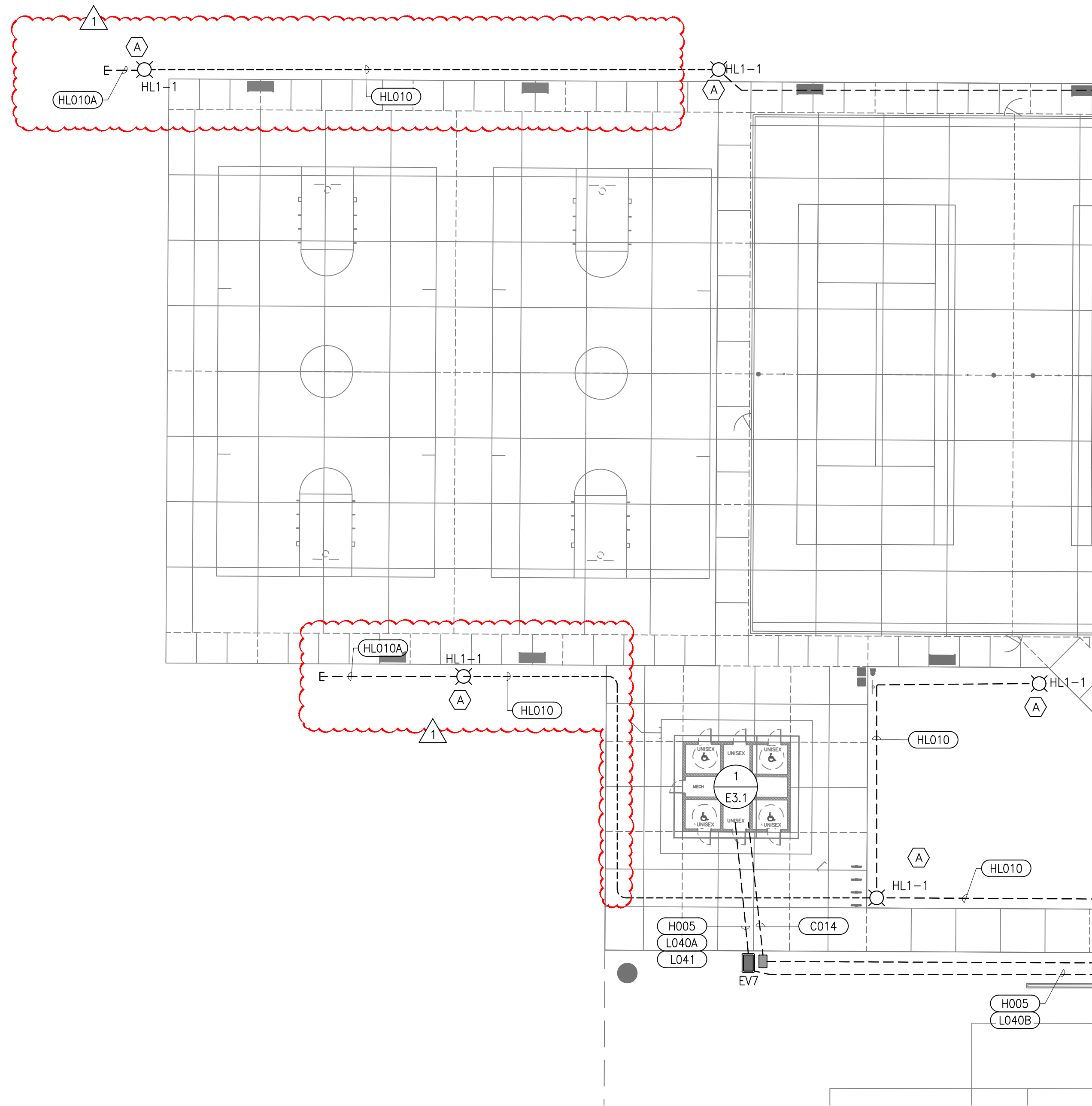
(N) RESTROOM BUILDING W/(N) XFMR "TX-LR" & PANEL "LR"

10.

(N) CONCESSION BUILDING W/(N) XFMR "TX-LC" & PANEL "LC"

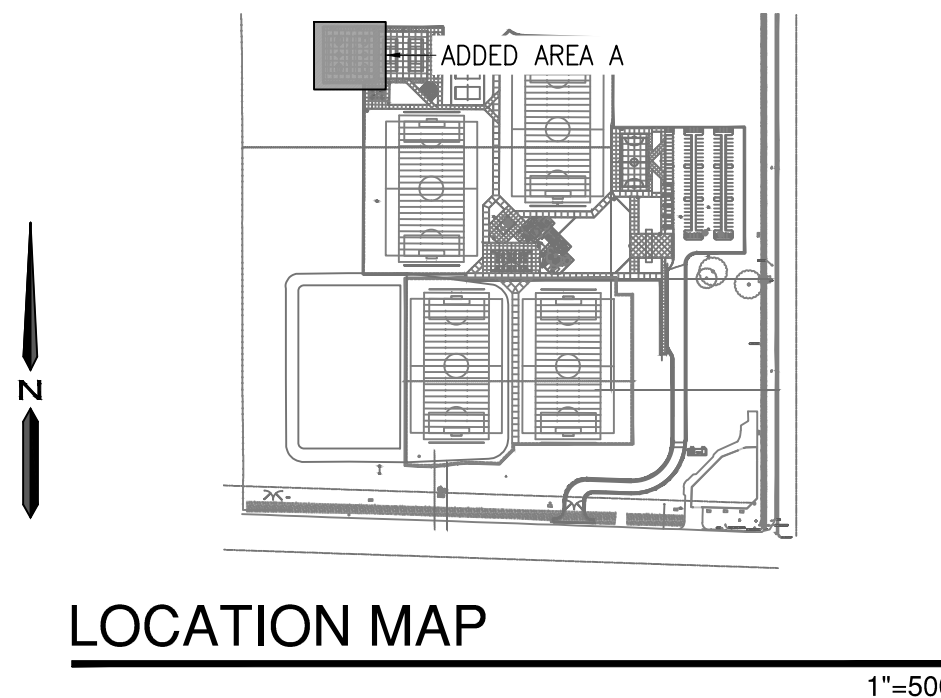
11.

(N) N48 POWER PULLBOX PER DETAIL 2/E4.1.



ADDED AREA A, PARTIAL SITE PLAN — ELECTRICAL

SCALE: 1"=20'-0"



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B	2/22/23	KLP	ADDENDUM #4 REVISIONS
1	6/16/23	KLP	ADDED SCOPE AREA REVISIONS

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ADDED AREA A, PARTIAL
ELECTRICAL PLAN -
ELECTRICAL

PROJECT# 40320
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SET

DR. BY: XX
DATE: MO/DY/YEAR
CH. BY: ----
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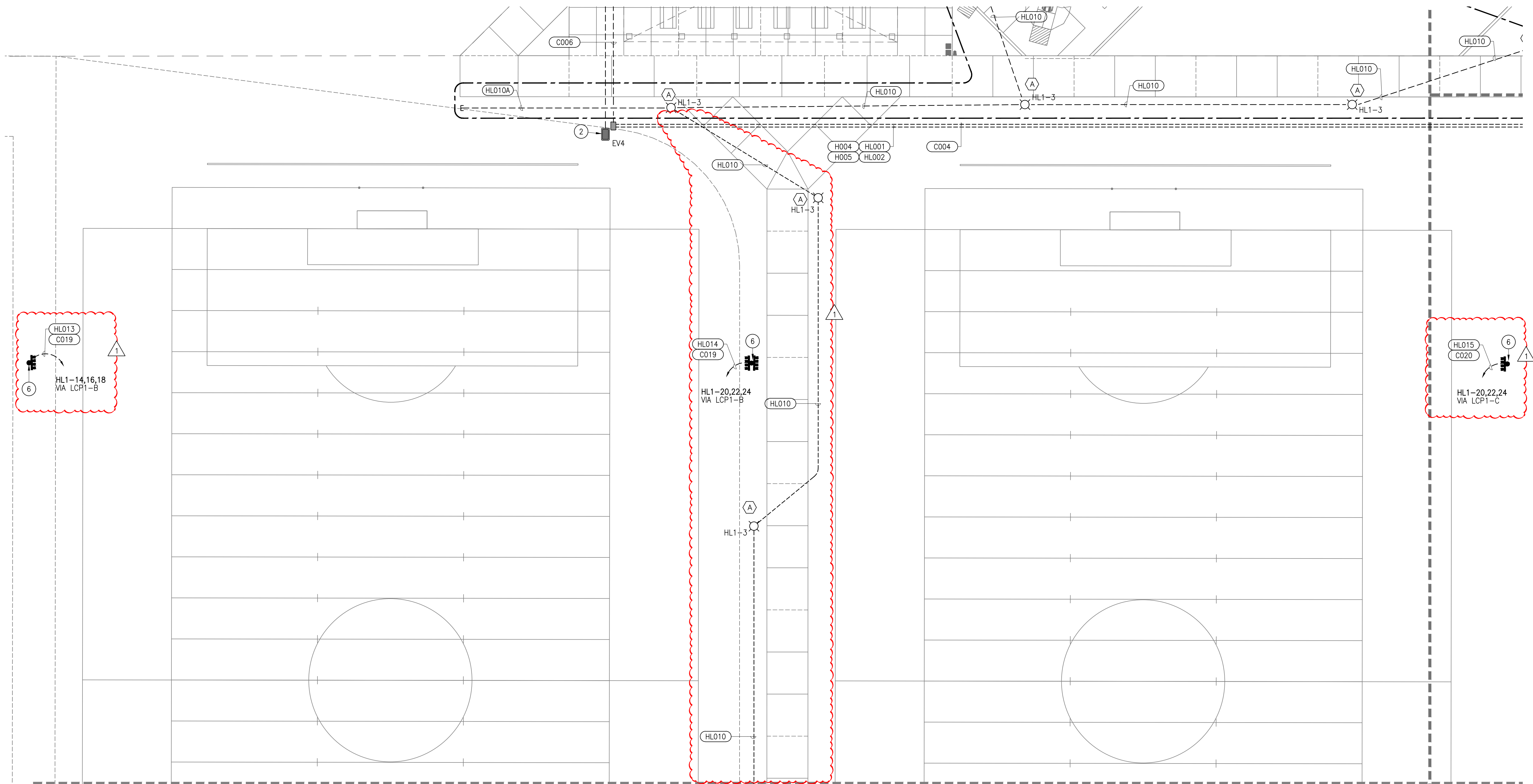
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NOTES:

- *NOT ALL NOTES MAY BE USED ON THIS SHEET*
- (N) 4" PG&E PRIMARY PER PG&E GREENBOOK -COORDINATE ROUTING TO (E) POLE
 - (N) N48 POWER & N36 COMM PULLBOXES PER DETAIL 2/E4.1.
 - (N) N36 POWER PULLBOX PER DETAIL 2/E4.1.
 - (N) POWER DUCT BANK PER DETAIL 3/E4.1.
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 - (N) SPORT LIGHTING POLE LOCATION W/ (N) 1 1/2" TO NEAREST POWER PULLBOX
 - (N) POWER & COMM FEEDS TO CONCESSION BUILDING
 - (N) POWER & COMM FEEDS TO RESTROOM BUILDING
 - (N) RESTROOM BUILDING W/(N) XFMR "TX-LR" & PANEL "LR"
 - (N) CONCESSION BUILDING W/(N) XFMR "TX-LC" & PANEL "LC"
 - (N) N48 POWER PULLBOX PER DETAIL 2/E4.1.



ADDED AREA B, PARTIAL SITE PLAN - ELECTRICAL

SCALE: 1"=20'-0"

SEE SHEET E1.7

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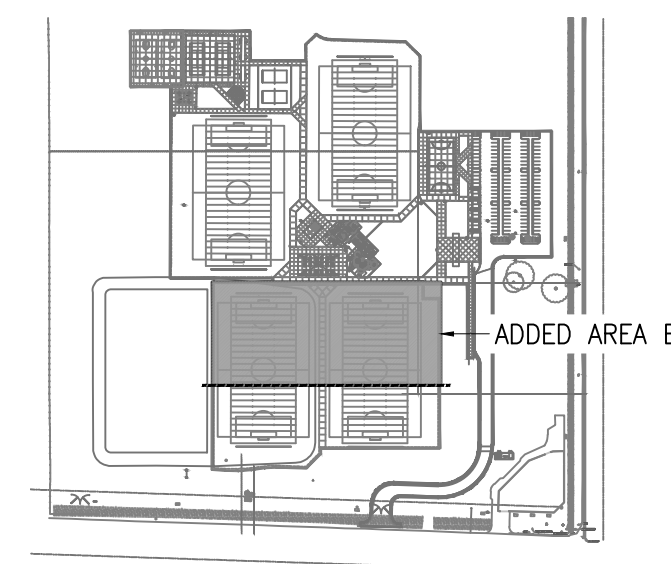
**ADDED AREA B, PARTIAL
ELECTRICAL PLAN -
ELECTRICAL**

**PROJECT# 40320
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SET**

DR. BY: XX
DATE: MO/DY/YEAR
CH. BY: ---
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of #

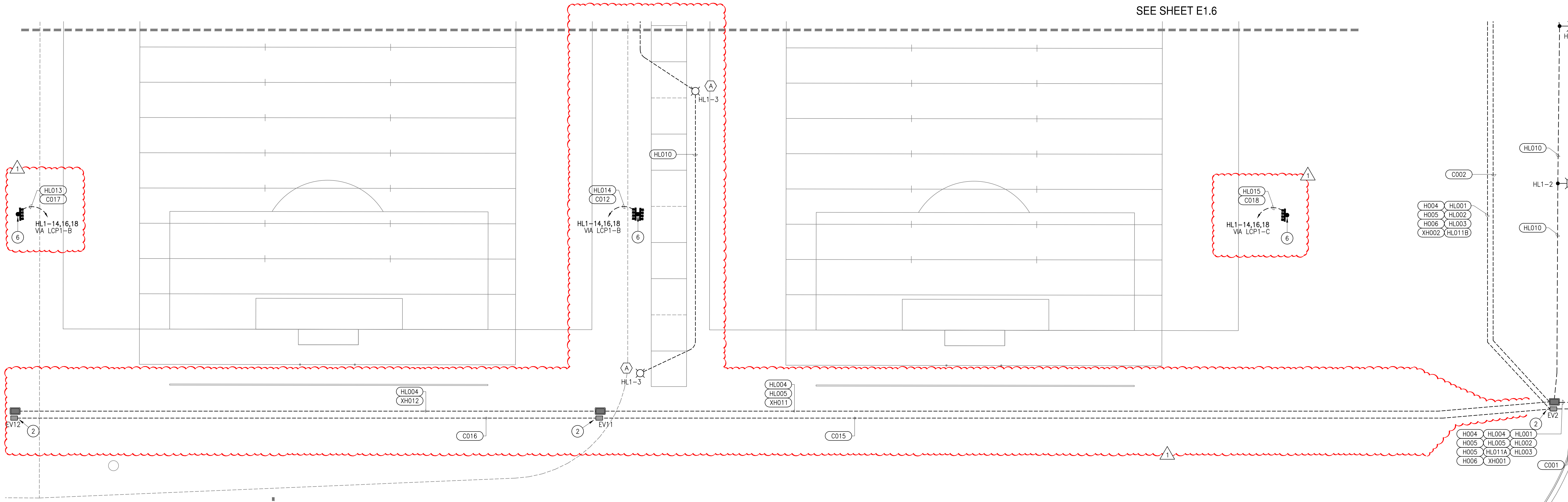
LOCATION MAP



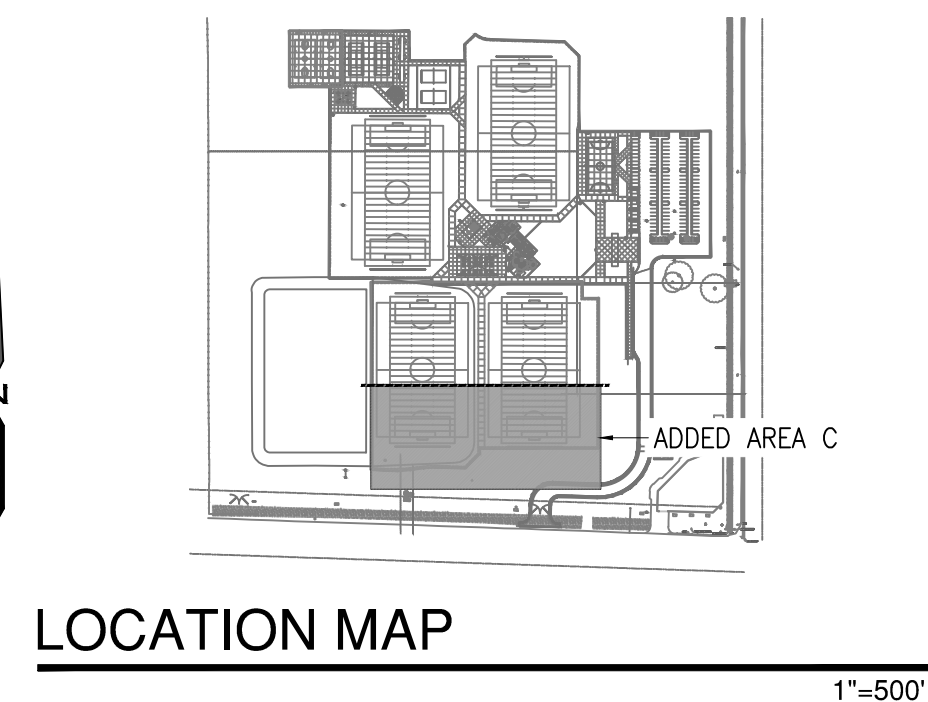
NOTES:

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 - (N) N48 POWER & N36 COMM PULLBOXES PER DETAIL 2/E4.1.
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 - (N) POWER & COMMUNICATION DUCT BANK PER DETAIL 3/E4.1.
 - (N) SPORT LIGHTING POLE LOCATION W/ (N) 1 1/2" C TO NEAREST POWER PULLBOX
 - (N) POWER & COMM FEEDS TO CONCESSION BUILDING
 - (N) POWER & COMM FEEDS TO RESTROOM BUILDING
 - (N) RESTROOM BUILDING W/(N) XFMR "TX-LR" & PANEL "LR"
 - (N) CONCESSION BUILDING W/(N) XFMR "TX-LC" & PANEL "LC"
 - (N) N48 POWER PULLBOX PER DETAIL 2/E4.1.

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ADDED AREA C, PARTIAL SITE PLAN - ELECTRICAL
SCALE: 1"=20'-0"



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REGISTERED PROFESSIONAL ENGINEER
KEVIN L. PEZZONI
NO. 16269
EXP. 12/24
STATE OF CALIFORNIA

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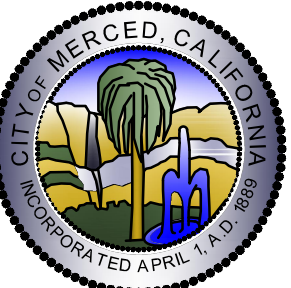
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ADDED AREA C, PARTIAL ELECTRICAL PLAN - ELECTRICAL

PROJECT# 40320
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SET

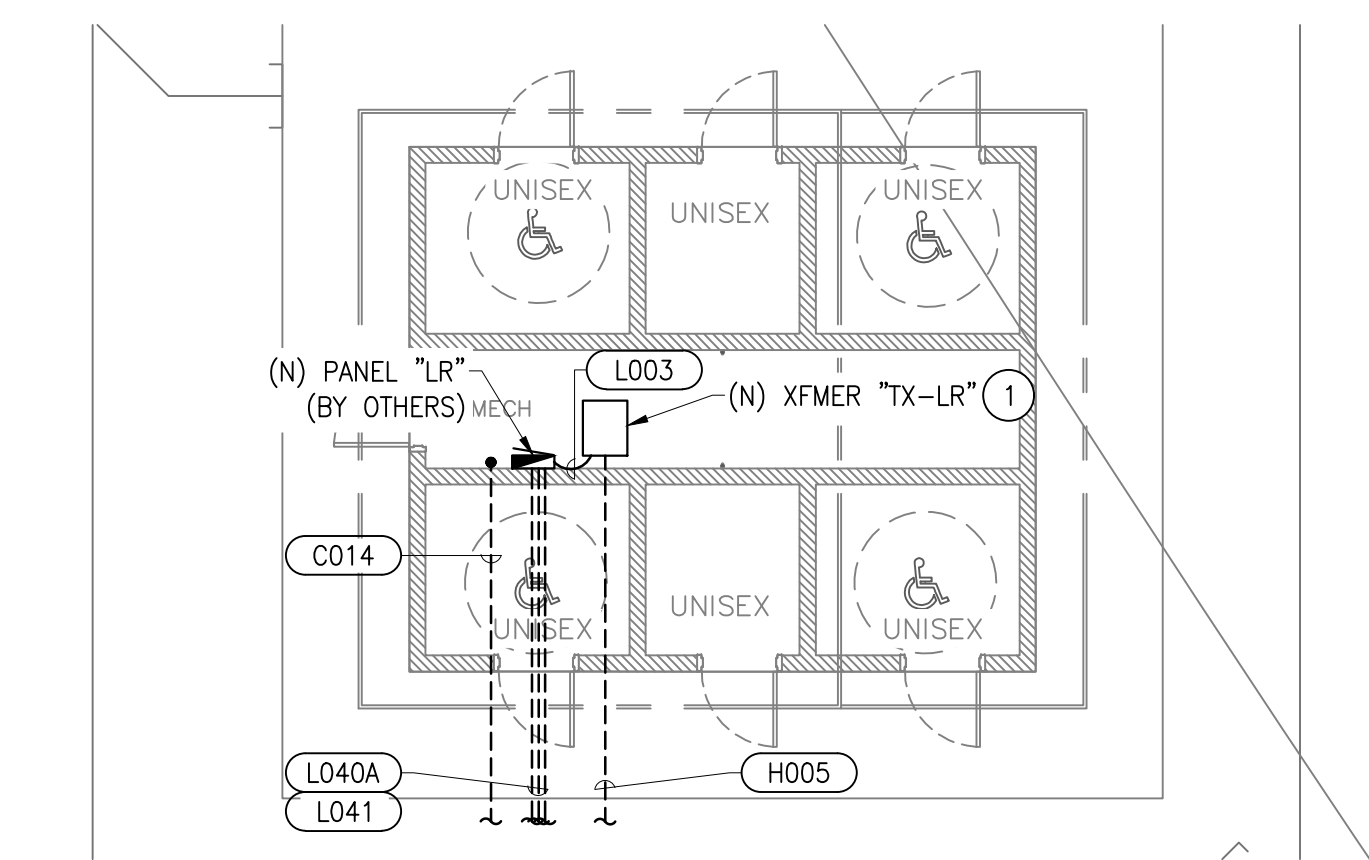
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- ## PLAN NOTES:
1. FIELD LOCATE TRANSFORMER WITHIN BUILDING & MAINTAIN CEC 110.26 CLEARANCES -INSTALL PER DETAIL -----.

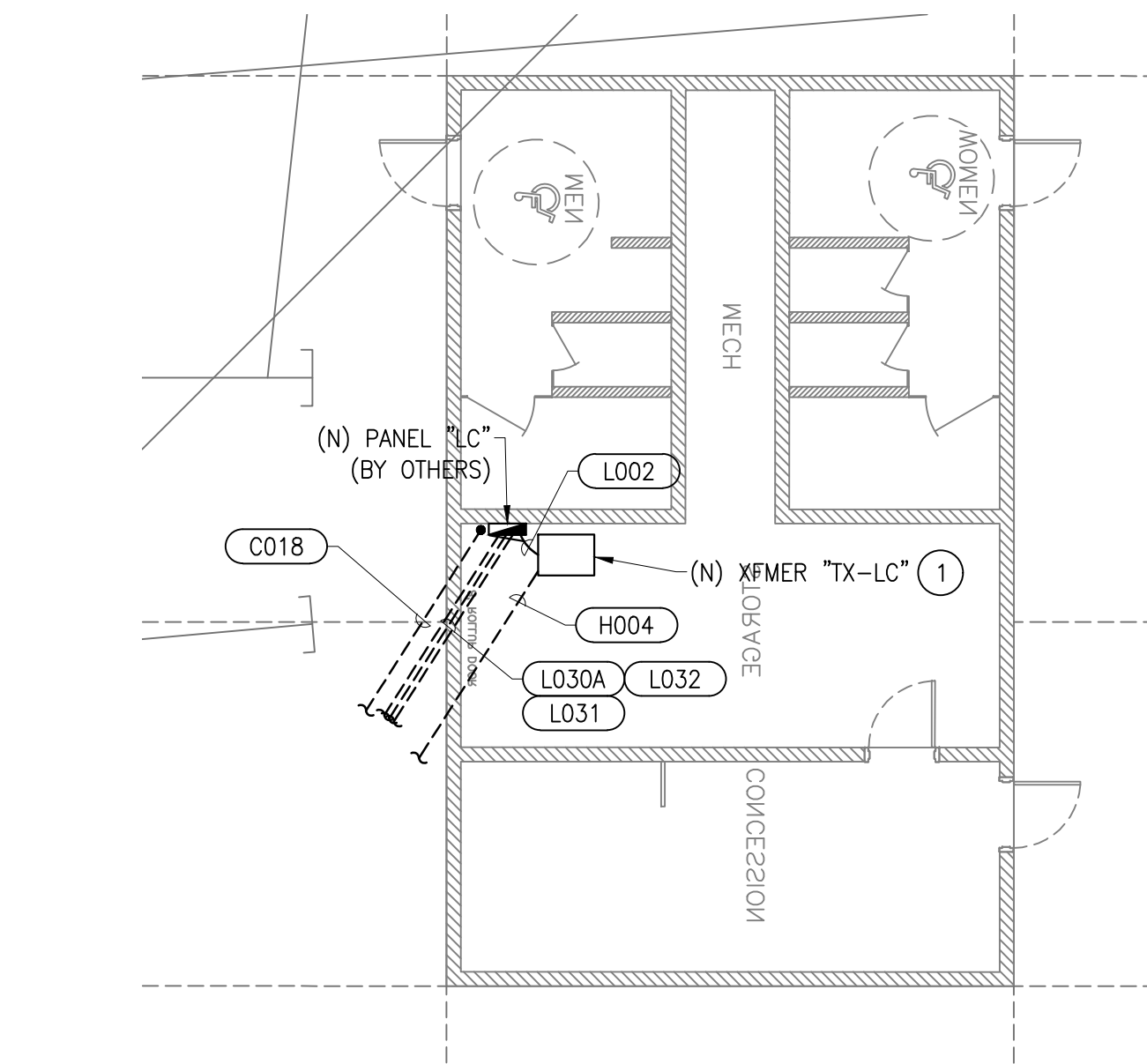
2. BASE BID SCOPE WILL BE TO STUB & CAP CONDUIT IN TRENCH AT FIRST COLUMN LOCATION W/UTILITY LOCATER BEACON -DELETE CONDUCTORS WITHIN HOMERUN.



1

RESTROOM BUILDING

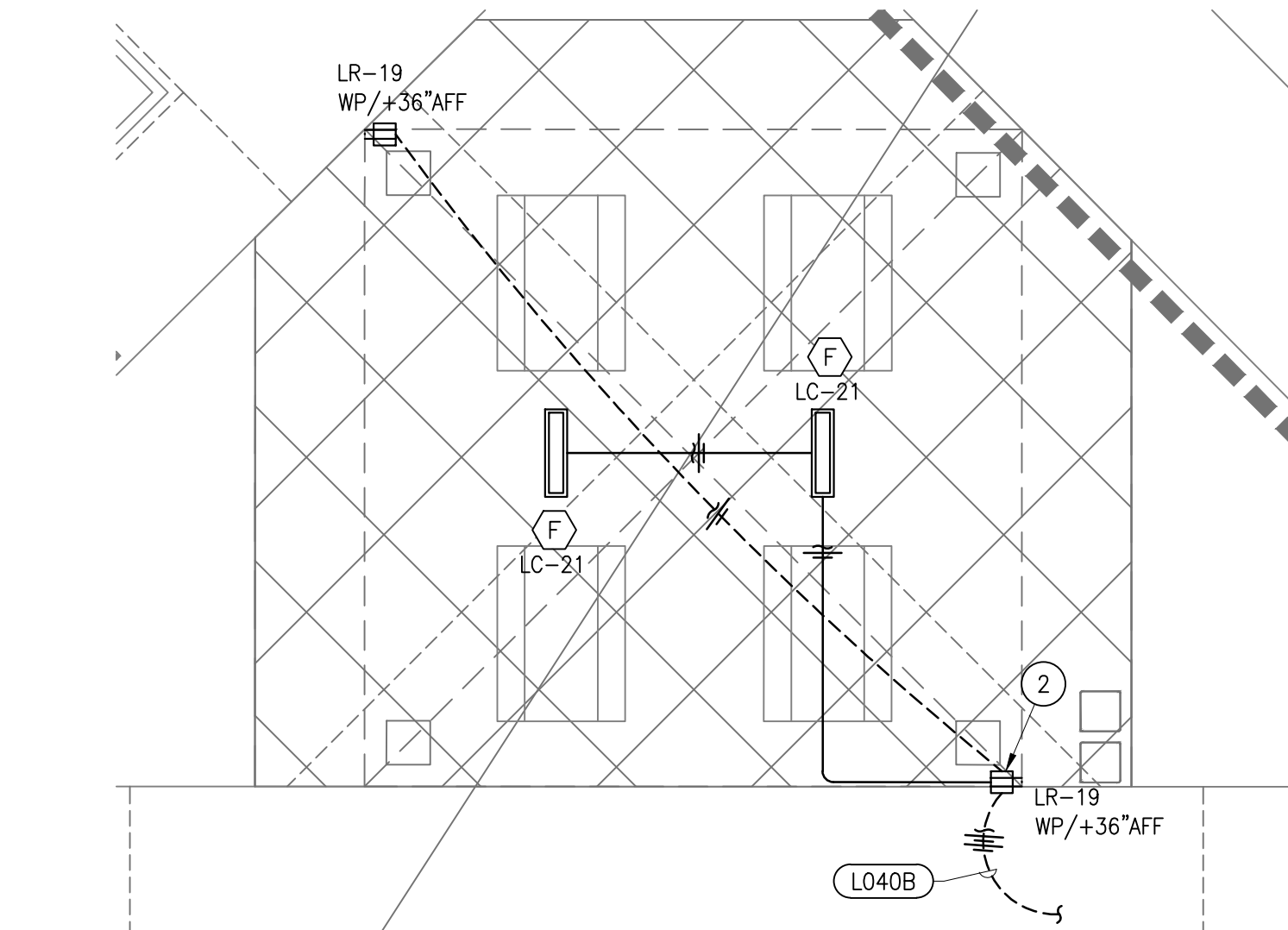
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2

CONCESSION/RESTROOM BUILDING

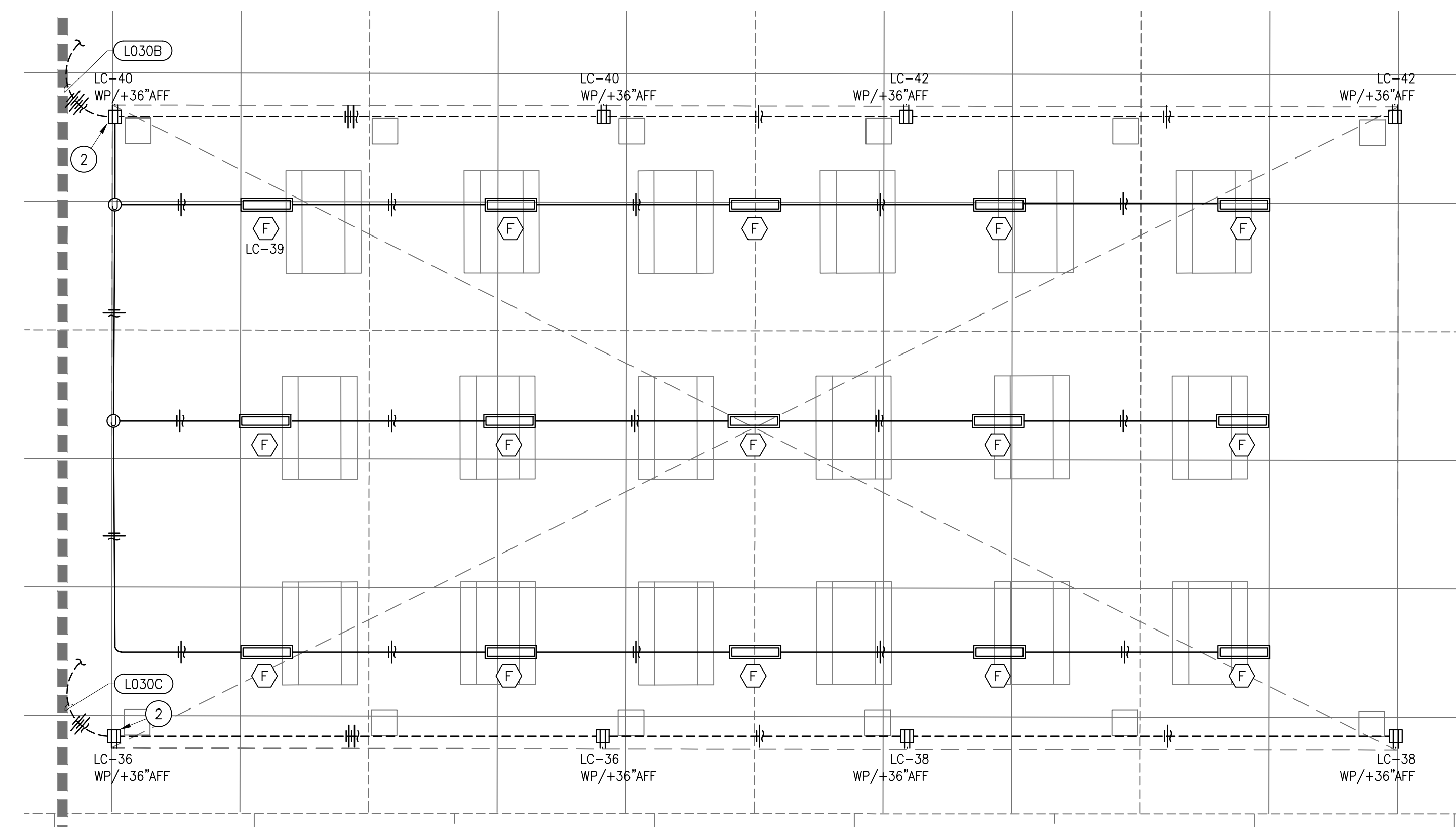
SCALE: 1/8" = 1'-0"



4

PICNIC LAYOUT – ELECTRICAL (BID ALTERNATE #3)

SCALE: 1/8" = 1'-0"



3

MAIN PICNIC LAYOUT – ELECTRICAL (BID ALTERNATE #2)

SCALE: 1/8" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER

KEVIN L. PEZZONI

NO. 16269

EXP. 12/24

STATE OF CALIFORNIA

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PARTIAL PLOT PLANS

PROJECT# 40320

LANDSCAPE IMPROVEMENT PLANS

COMMUNITY PARK-42

BID SET

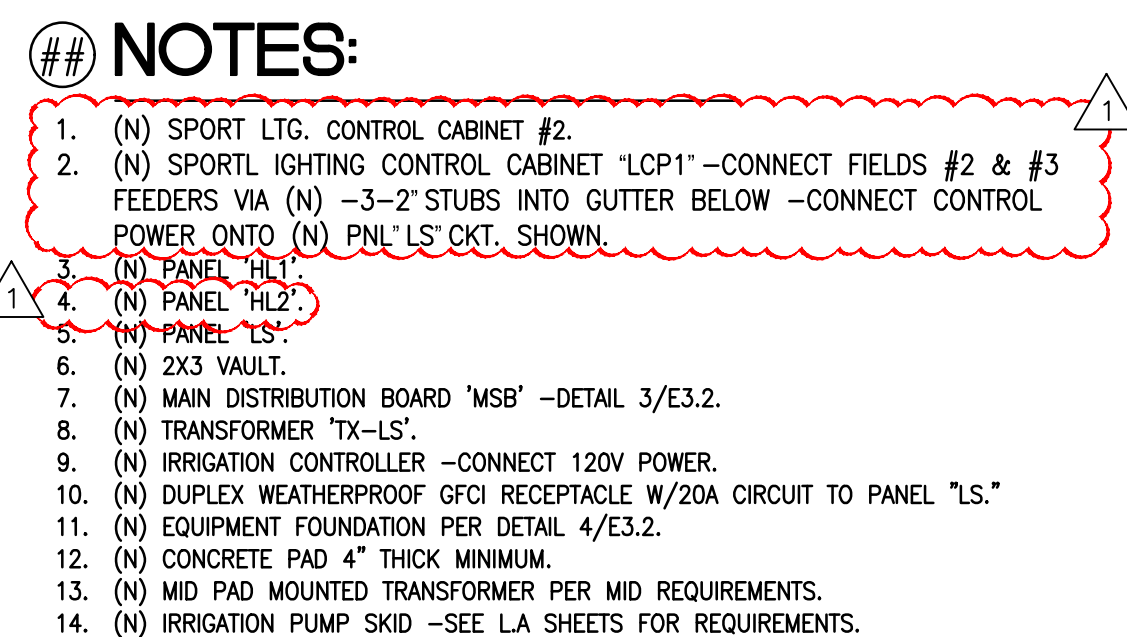
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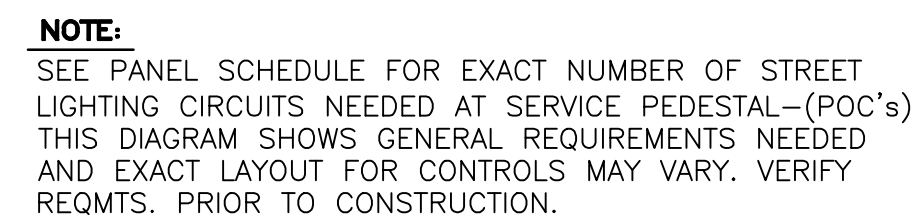
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SCALE: NTS



4 FOUR
SCALE: NTS



LC-1 : LTG. CONTACTOR -6 POLE
-20A.- 277V.-SQ.
#8903

P.E.: FISHER PIERCE :6660

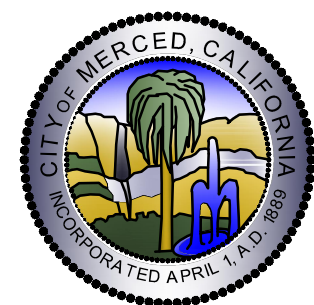
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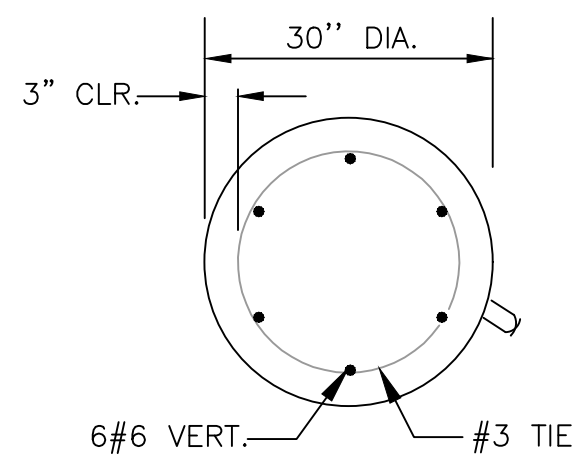
PARTIAL SITE PLAN - ELECTRICAL YARD

PROJECT# 40320
LANDSCAPE IMPROVEMENT PLANS
COMMUNITY PARK-42
BID SET

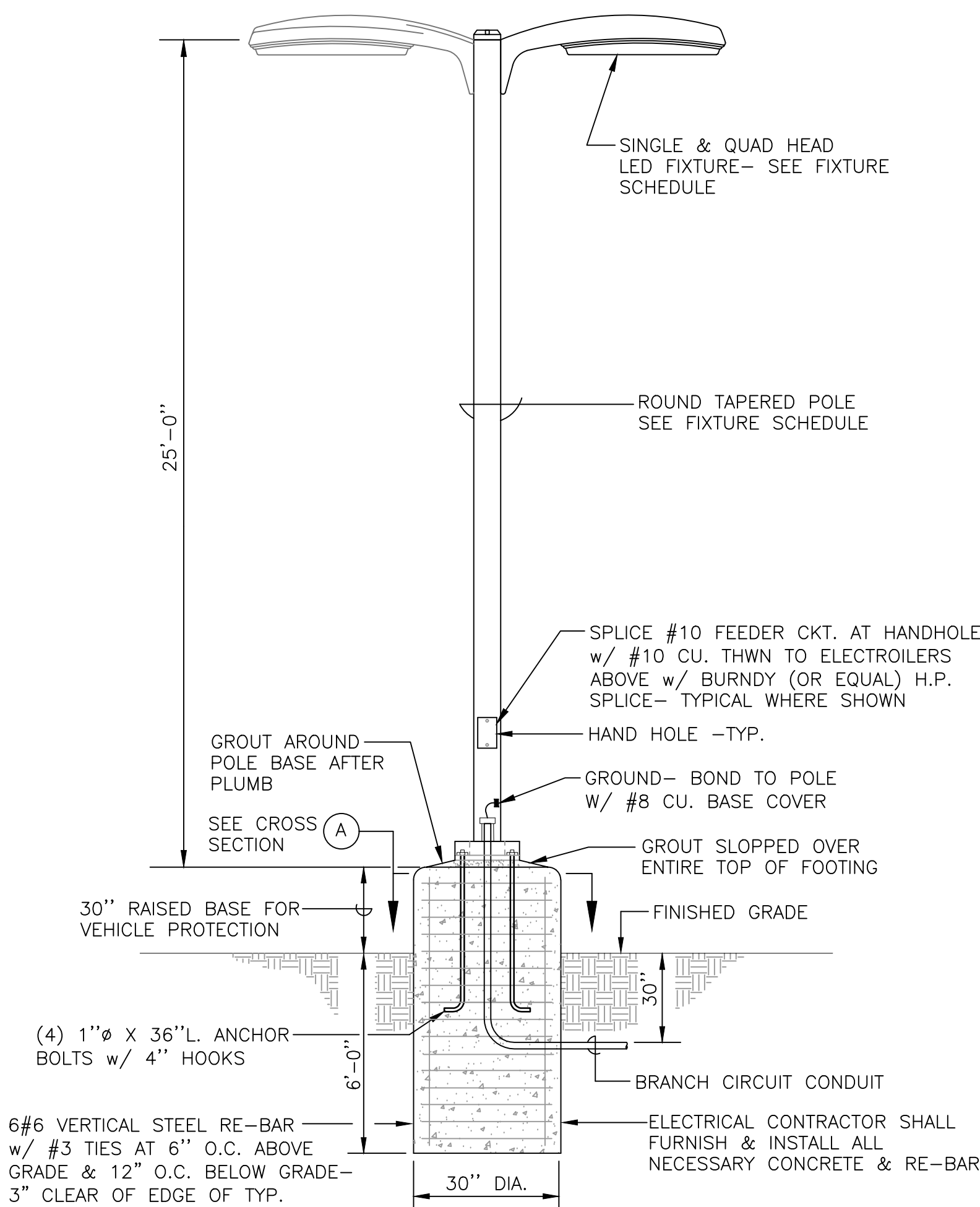
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DATE: MO/DY/YEA
CH. BY: ----
DATE:
SCALE:

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Sheet
E3.2
of #

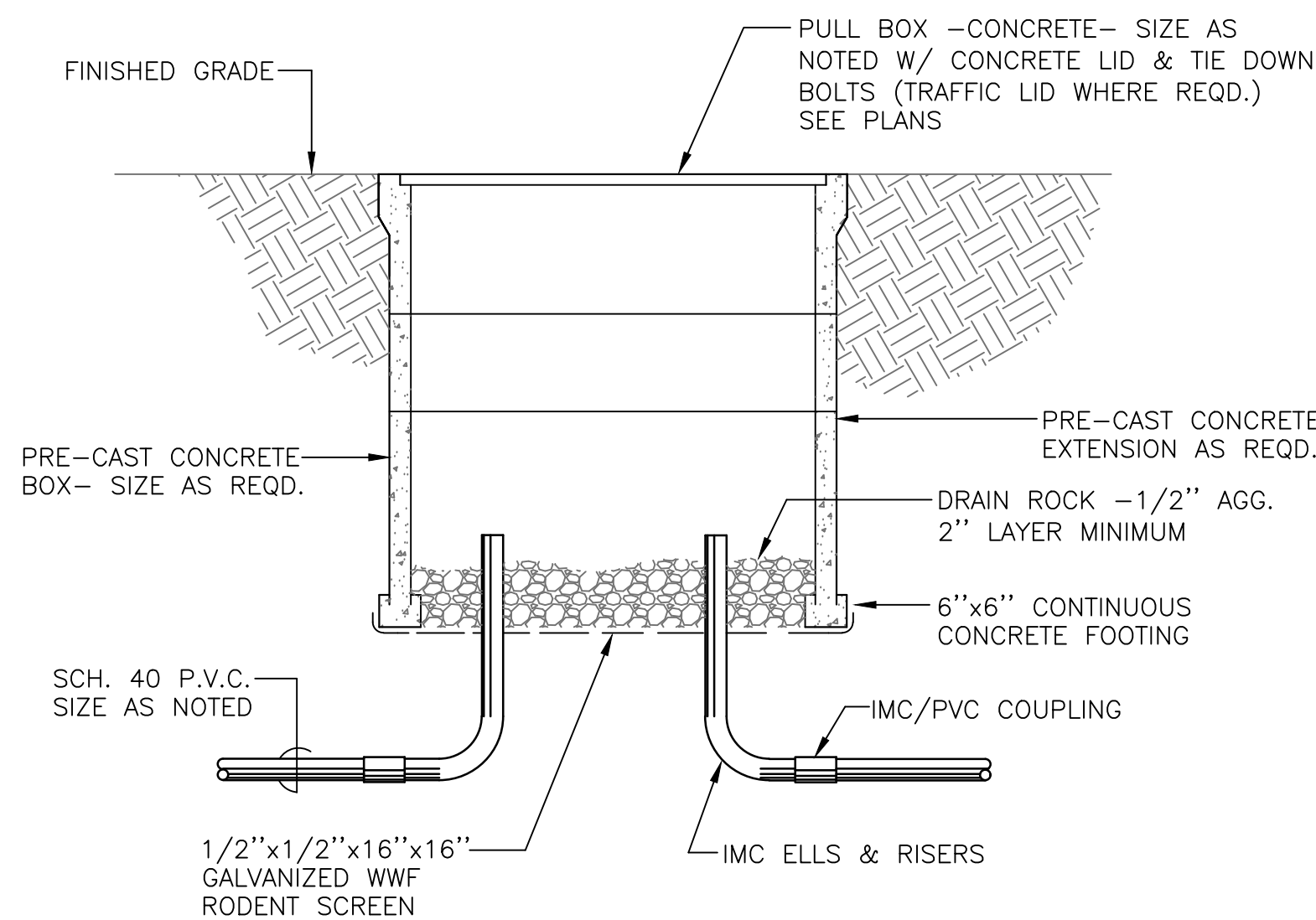
F:\22\755 CP-42 COMMUNITY PARK MERCED\ENGR\SHEETS\755_4.0 DETAILS.DWG
cmendez
07/05/23 2:14:17 PM



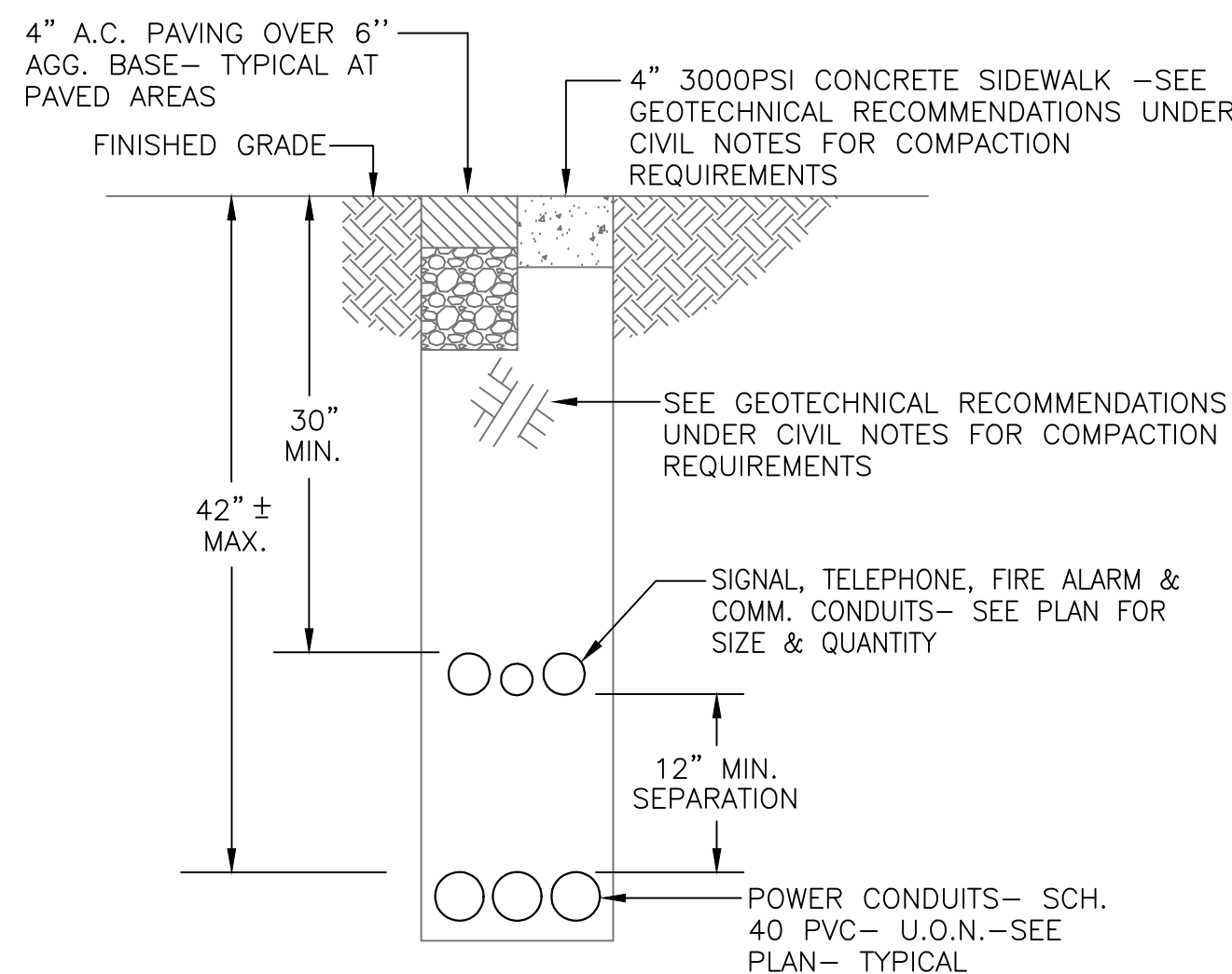
A CROSS SECTION DETAIL
SCALE: N.T.S.



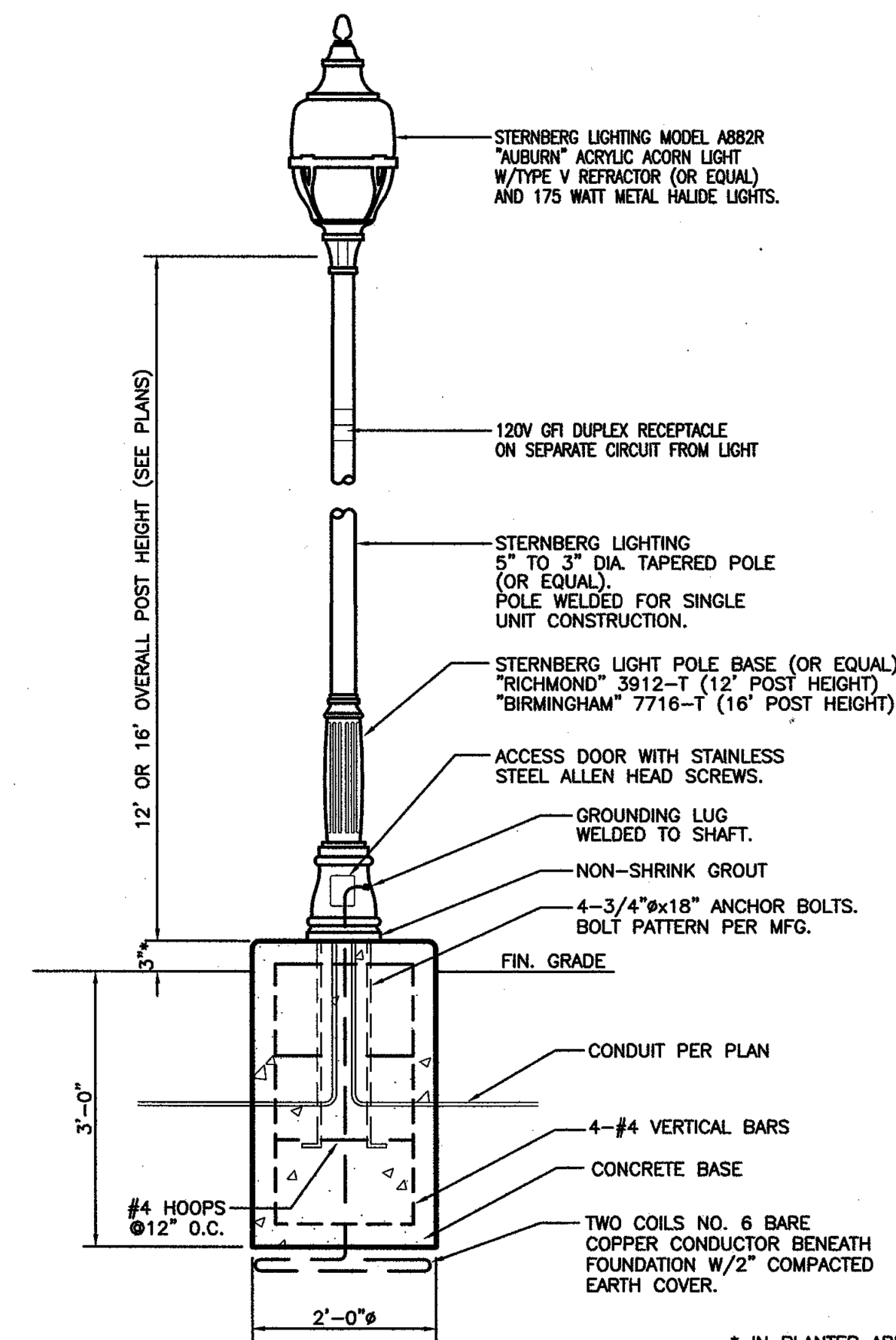
4 LIGHT STANDARD & BASE
SCALE: N.T.S.



2 PULL BOX -TYPICAL
SCALE: N.T.S.



3 ELECTRICAL TRENCH SECTION -TYPICAL
SCALE: N.T.S.



NOTES:
STREETLIGHTS ARE PROVIDED WITH PHOTOELECTRIC SENSORS.
SEE CITY STD. SL-1 THROUGH SL-5 FOR ADDITIONAL REQUIREMENTS.
THIS LIGHT STANDARD SHALL BE USED FOR LIGHTS INSTALLED WITHIN THE CITY'S DOWNTOWN REDEVELOPMENT AGENCY BOUNDARIES.
BASE, POLE AND FIXTURE COLOR TO MATCH EXISTING (PARK GREEN).

* IN PLANTER AREAS ONLY.
TOP OF FOUNDATION TO BE FLUSH WITH ALL ADJACENT PAVED SURFACES.

NOT TO SCALE		CITY OF MERCED, CA.	
ENGINEERING DEPARTMENT		SL-6	
STREET LIGHTING STANDARD		SL-6	
DRAWN: YLC	APPROVED BY: David L. Tucker	DATE: 4/4/06	SHEET OF
DATE: 5/04	CITY ENGINEER		
REVISED: 8/04			

1 POST TOP ELECTROLIER, POLE & BASE- TYPICAL
SCALE: NONE

F:\22\755 CP-42 COMMUNITY PARK MERCED\ENR\SHEETS\755.E5.0 PANEL SCHEDULE - SLD.DWG cmercedz 2:14:25 PM 07/05/23

PANELBOARD SCHEDULE													
PANEL: HL1				LOCATION: ELEC YARD									
BUS RATING: 250 A.				PHASE: 3ø				SCCR: 35k				NEMA TYPE: 3R	
VOLTAGE: 277/480 V.				WIRE: 4				BUSSING: Cu				MOUNTING: SURFACE	
CKT	DESCRIPTION	BRKR	TYPE	LOAD	A (va)	B (va)	C (va)	LOAD	TYPE	BRKR	DESCRIPTION	CKT	
1	LTG -PATHWAY/PED	20/1	L	720	820			100	C	20/1	LTG CONTROL CKT	2	
3	LTG -PATHWAY/PED	20/1	L	240		240				20/1	SPARE	4	
5	SPARE	20/1					0			20/1	SPARE	6	
7	SPARE	20/1			0					20/1	SPARE	8	
9	SPARE	20/1				0				20/1	SPARE	10	
11	SPARE	20/1					0			20/1	SPARE	12	
13	FIELD #3 WEST POLES	30/3	L	8000	16000			8000	L	30/3	FIELD #3 EAST POLES	14	
15		/	L	8000		16000		8000	L	/		16	
17		/	L	8000			16000	8000	L	/		18	
19	FIELD #2 WEST POLES	30/3	L	8000	16000			8000	L	30/3	FIELD #2 EAST POLES	20	
21		/	L	8000		16000		8000	L	/		22	
23		/	L	8000			16000	8000	L	/		24	
					32820	32240	32000						
CONTINUOUS (C):				125 VA	MCB: -								
NON-CONTINUOUS (NI):				0 VA	MLO: YES								
RECEP. (R):				0 VA					MAX. PHASE Ø125% = 148.1 A.				
MOTOR (M) OR (M1):				0 VA					DEMAND TOTAL = 97.1 kVA				
LIGHTING (L):				98960 VA					= 116.8 A.				
KITCHEN >1750W (K):				0 VA	DEMAND CALC. PER ART 220				Ø125% = 146.0 A.				

PANELBOARD SCHEDULE													
PANEL: LR				PROVIDED BY BUILDING VENDOR				LOCATION: RESTROOM					
BUS RATING: 100 A.				PHASE: 3Ø				SCCR: 10k					
VOLTAGE: 120/208 V.				WIRE: 4				BUSSING: Cu					
								NEMA TYPE: 1					
								MOUNTING: SURFACE					
CKT	DESCRIPTION	BRKR	TYPE	LOAD	A (va)	B (va)	C (va)	LOAD	TYPE	BRKR	DESCRIPTION	CKT	
1	(E) CKT				0						(E) CKT	2	
3	(E) CKT					0					(E) CKT	4	
5	(E) CKT						0				(E) CKT	6	
7	(E) CKT				0						(E) CKT	8	
9	(E) CKT					0					(E) CKT	10	
11	(E) CKT						0				(E) CKT	12	
13					0							14	
15						0						16	
17							0					18	
19	PICNIC –RECP	20/1	R	360	360					20/1	SPARE	20	
21	PICNIC –LTG	20/1	L			0				20/1	SPARE	22	
23	SPARE	20/1					0			20/1	SPARE	24	
					360	0	0						
CONTINUOUS (C):		0 VA		MCB: 100/3									
NON–CONTINUOUS (NI):		0 VA		MLO: –									
RECEP. (R):		360 VA				MAX. PHASE Ø125% = 3.8 A.							
MOTOR (M) OR (M1):		0 VA				DEMAND TOTAL = 0.4 kVA							
LIGHTING (L):		0 VA				= 1.0 A.							
KITCHEN >1750W (K):		0 VA				Ø125% = 1.2 A.							
DEMAND CALC. PER ART 220													

PANELBOARD SCHEDULE													
PANEL: LS				LOCATION: ELEC YARD									
BUS RATING: 100 A.				PHASE: 3Ø				SCCR: 22k				NEMA TYPE: 3R	
VOLTAGE: 120/208 V.				WIRE: 4				BUSSING: Cu				MOUNTING: SURFACE	
CKT	DESCRIPTION	BRKR	TYPE	LOAD	A (va)	B (va)	C (va)	LOAD	TYPE	BRKR	DESCRIPTION	CKT	
1	IRRIGATION CONTROL	20/1	C	50	50					20/1	SPARE	2	
3	RECP -YARD	20/1	R	180		180				20/1	SPARE	4	
5	MUSCO CONTROL PWR	20/1	C	500			500			20/1	SPARE	6	
7	SPARE	20/1			0					20/1	SPARE	8	
9	SPARE	20/1				0				20/1	SPARE	10	
11	SPARE	20/1					0			20/1	SPARE	12	
13					0							14	
15						0						16	
17							0					18	
19					0							20	
21						0						22	
23							0					24	
					50	180	500						
CONTINUOUS (C):				688 VA	MCB: 100/3								
NON-CONTINUOUS (NI):				0 VA	MLO: -								
RECEP. (R):				180 VA					MAX. PHASE Ø125% = 5.2 A.				
MOTOR (M) OR (M1):				0 VA					DEMAND TOTAL = 0.9 kVA				
LIGHTING (L):				0 VA					= 2.4 A.				
KITCHEN >1750W (K):				0 VA					Ø125% = 3.0 A.				
DEMAND CALC. PER ART 220													

PANELBOARD SCHEDULE													
PANEL: LC				PROVIDED BY BUILDING VENDOR				SCCR: 10k				LOCATION: CONCESSION	
BUS RATING: 200 A.				PHASE: 3ø				BUSSING: Cu				NEMA TYPE: 1	
VOLTAGE: 120/208 V.				WIRE: 4								MOUNTING: SURFACE	
CKT	DESCRIPTION	BRKR	TYPE	LOAD	A (va)	B (va)	C (va)	LOAD	TYPE	BRKR	DESCRIPTION	CKT	
1	(E) CKT				0						(E) CKT	2	
3	(E) CKT					0					(E) CKT	4	
5	(E) CKT						0				(E) CKT	6	
7	(E) CKT				0						(E) CKT	8	
9	(E) CKT					0					(E) CKT	10	
11	(E) CKT						0				(E) CKT	12	
13	(E) CKT				0						(E) CKT	14	
15	(E) CKT					0					(E) CKT	16	
17	(E) CKT						0				(E) CKT	18	
19	(E) CKT				0						(E) CKT	20	
21	(E) CKT					0					(E) CKT	22	
23							0					24	
25					0							26	
27						0						28	
29							0					30	
31	SPARE	20/1			0					20/1	SPARE	32	
33	SPARE	20/1				0				20/1	SPARE	34	
35	SPARE	20/1					0		R	20/1	PICNIC –RECP	36	
37	SPARE	20/1			0				R	20/1	PICNIC –RECP	38	
39	PICNIC –LTG	20/1	L			0			R	20/1	PICNIC –RECP	40	
41	SPARE	20/1					0		R	20/1	PICNIC –RECP	42	
					0	0	0						
CONTINUOUS (C):		0 VA		MCB: 200/3									
NON-CONTINUOUS (N):		0 VA		MLO: -									
RECEP. (R):		0 VA						MAX. PHASE Ø125% =		0.0 A.			
MOTOR (M) OR (M1):		0 VA						DEMAND TOTAL =		0.0 kVA			
LIGHTING (L):		0 VA								= 0.0 A.			
KITCHEN >1750W (K):		0 VA						Ø125% =		0.0 A.			
DEMAND CALC. PER ART 220													

PANELBOARD SCHEDULE													
PANEL: HL2				LOCATION: ELEC YARD									
BUS RATING: 250 A.				PHASE: 3ø				SCCR: 35k				NEMA TYPE: 3R	
VOLTAGE: 277/480 V.				WIRE: 4				BUSSING: Cu				MOUNTING: SURFACE	
CKT	DESCRIPTION	BRKR	TYPE	LOAD	A (va)	B (va)	C (va)	LOAD	TYPE	BRKR	DESCRIPTION	CKT	
1	FIELD #3 WEST POLES	30/3	L	5400	10800			5400	L	30/3	FIELD #3 EAST POLES	2	
3	/	/	L	5400		10800		5400	L	/	/	4	
5	/	/	L	5400			10800	5400	L	/	/	6	
7	FIELD #4 WEST POLES	30/3	L	5400	10800			5400	L	30/3	FIELD #4 EAST POLES	8	
9	/	/	L	5400		10800		5400	L	/	/	10	
11	/	/	L	5400			10800	5400	L	/	/	12	
13	FIELD #5 WEST POLES	30/3	L	5400	10800			5400	L	30/3	FIELD #5 EAST POLES	14	
15	/	/	L	5400		10800		5400	L	/	/	16	
17	/	/	L	5400			10800	5400	L	/	/	18	
19	FIELD #6 WEST POLES	30/3	L	5400	10800			5400	L	30/3	FIELD #6 EAST POLES	20	
21	/	/	L	5400		10800		5400	L	/	/	22	
23	/	/	L	5400			10800	5400	L	/	/	24	
					43200	43200	10800	5400	L	/			
CONTINUOUS (C):				0 VA		MCB: —							
NON—CONTINUOUS (N):				0 VA		MLO: YES		MAX. PHASE @125% = 194.9 A.					
RECEP. (R):				0 VA				DEMAND TOTAL = 129.6 KVA					
MOTOR (M) OR (M1):				0 VA				= 155.9 A.					
LIGHTING (L):				129600 VA				@125% = 194.9 A.					
KITCHEN >1750W (K):				0 VA		DEMAND CALC. PER ART 220							