

Addendum #3

FOR

***City of Pearl Parks and Recreation:
Baseball and Softball Fields
Pearl, MS***

October 25, 2019

PICKERING FIRM, INC.
2001 Airport Parkway, Suite 201
Flowood, MS 39232
601-956-3663



DATE: October 25, 2019

PROJECT: **City of Pearl Parks and Recreation: Baseball and Softball Fields
Pearl, MS**

NOTICE TO ALL BIDDERS: This Addendum modifies (changes, adds to, deletes from) and/or interprets the Bidding Documents (Project Manual and/or Drawings, as indicated), and becomes part of the Contract Documents when the Agreement between the Owner and Contractor is executed.

Project Manual

1. Replace the original Section 3: Bidding Forms with the revised being furnished with this addendum. Added or modified pay items, alternates, and unit pricing are highlighted in yellow.
2. Replace the original specification Section 01020 Allowances with the revised being furnished with this addendum. Added allowance highlighted in yellow under section 1.2 Schedule of Allowances.
3. Replace the original specification Section 01025 Measurement and Payment with the revised being furnished with this addendum. Modified pay item descriptions are highlighted in yellow.
4. Replace the original specification Section 321815 Outdoor Synthetic Playing Field Surfacing with the revised being furnished with this addendum. Changes noted.
5. Pay Item 54- Electrical shall include all electrical work shown on the electrical plan sheets, including the concession buildings.
6. Refer to specification Section 312000 Earthwork for Buildings for excavation within the concession building areas. Disregard specification Section 02200 Earthwork section 3.3D Placement and Compaction under Structures or Building Slabs.
7. See attached "basis of design" specification for concessions equipment shown on drawing sheets FS-1 and FS-2.

Drawings

Civil

Replace the original drawing sheets with the following revised sheets clouded and noted with Revision 2-Addendum #3 dated 10-25-19: **C3.3B, C4.3B, C4.7B, C4.0S, C6.0B, C7.3 B, C7.0S, C8.1, and C8.3.**

Architectural

Replace the original drawing sheets with the following revised sheets:

R100

- **Revise:** sheet index

A010

- **Revision:** layout of Field D on site plan was changed to match the detail plan

A020

- **Revision:** layout of Field D on site plan was changed to match the detail plan

A024

- **Revision:** Modified size of shade structure

A101

- **Revision:** vestibule enclosure and doors were given door tags and minor additional clarifications
- **Clarification:** all concessions counters are continuous on concession pass thru wall, counter includes backsplash

A102

- **Revision:** vestibule enclosure and doors were given door tags and minor additional clarifications
- **Clarification:** all concessions counters are continuous on concession pass thru wall, counter includes backsplash
- **Clarification:** noted sliding barn door in restroom opening

A103

- **Revision:** additional details were provided for vestibule enclosure, vestibule doors, mechanical enclosures, and mechanical enclosure doors

A202

- **Revision:** additional window and barn door information was provided
- **Revision:** additional mechanical enclosure and vestibule enclosure information was provided
- **Clarification:** sliding barn door information clarified

A303

- **Revision:** additional details were provided

A304

- **Revision:** additional details were provided

A401

- **Revision:** additional details were provided

A501

- **Revision:** door schedule, barn door elevation, barn door details, and window elevations were provided

A601

- **Revision:** interior elevations were revised to remove wall sconces
- **Revision:** accessory legend was revised

Electrical

Replace the original drawing sheets with the following revised sheets clouded and noted with Revision 3-Addendum #3 dated 10-25-19: **E100, E102, E103, E106, E108, E203, and E205.**

- The fans shown (circle with “F” in center) on drawings shall be owner provided/installed per the electrical legend shown on E200.
- Communication cabling at concession stands shall be by owner.

SECTION 3: BIDDING FORMS

BID FORM

PLACE: Pearl, MISSISSIPPI

DATE: _____

CITY OF PEARL PARKS AND RECREATION: BASEBALL AND SOFTBALL FIELDS

Bid of _____

(hereinafter called "BIDDER") organized and existing under the laws of the State of _____

doing business as a _____.* (* Insert "a Corporation", "a Partnership" or "an

Individual" as applicable.)

TO: ATTN: Kelly Scouten, City Clerk
 2420 Old Brandon Road
 Pearl, MS 39208..... (hereinafter called "OWNER".)

GENTLEMEN:

The BIDDER, in compliance with your Invitation for Bids, having examined the Plans and Specifications with related documents and the site of the proposed work and being familiar with all of the conditions surrounding the construction of the proposed Project, including the availability of materials and labor, hereby proposes to furnish all labor, materials, supplies and to construct the Project in accordance with the Contract Documents within the time set forth therein and at the Unit Prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents of which this Proposal is a part.

The BIDDER further understands that the OWNER reserves the right to reject any or all Bids and waive informalities in the Bidding.

The BIDDER agrees that this Bid shall be valid and may not be withdrawn for a period of sixty (60) calendar days after the scheduled closing time for receiving Bids.

Bidder understands that the quantities mentioned below are approximate only and are subject to either increase or decrease, and hereby proposes to perform any increased or decreased quantities of work at the Unit Price bid.

In accordance with the requirements of the Plans, Specifications and Contract Documents, Bidder proposes to furnish all necessary materials, equipment, labor, tools and other means of construction and to construct the Project in accordance with the Contract Documents within the specified Contract Time for the following Unit Prices:

(NOTE: Final amount are to be shown in **both** words and **figures**. In case of discrepancy, the amount shown in **words** will govern.)

Unit Prices shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for.

All erasures, changes or alterations of any kind must be initialed by the Bidder.

I. BASE BID

ITEM #	DESCRIPTION	UNIT	Quantity	Unit Price	Total Cost
1	Mobilization	LS	1		
2	Removal of Concrete Pavement	SY	1,086		
3	Removal of Asphalt Pavement	SY	2,406		
4	Sawcut Asphalt Pavement	LF	2,272		
5	Removal of Gravel Parking Lot	SY	1,816		
6	Removal of Concession Stand Building	EA	2		
7	Removal of Dugout (Includes Structure, Bench, and Fence)	EA	16		
8	Removal of Shade Structure	EA	3		
9	Removal of Shed	EA	1		
10	Removal of Score Keeper Box	EA	8		
11	Removal of Metal Bleachers	EA	14		
12	Removal of Wood Fencing, All Types & Sizes	LF	72		
13	Removal of Chain Link Fencing	LF	7,870		

14	Removal of Timber Edge	LF	425		
15	Removal of Scoreboard	EA	4		
16	Removal of Signs	EA	17		
17	Removal of Outfield Advertising Signs	EA	7		
18	Removal of Bollards	EA	12		
19	Removal of Flag Pole	EA	1		
20	Removal of Pole Gate	EA	1		
21	Remove and Replace Gate Inlet With Cast in Place Concrete Inlet-East Jordan Iron Works V-5724-1 2'x2' Frame and Grate	EA	1		
22	Remove and Replace Gate Inlet With Cast in Place Concrete Inlet-Contech 15" Grate	EA	1		
23	Remove and Replace Gate Inlet Top With Cast in Place Solid Top	EA	1		
24	Removal of Storm Piping, All Types & Sizes	LF	70		
25	Removal of Sanitary Sewer Piping, All Types & Sizes	LF	65		
26	Removal of Water Piping, All Types & Sizes	LF	497		
27	Replace and Adjust Utility Boxes to Grade	EA	21		
28	Removal of Backflow Preventor	EA	1		

29	Relocate Fire Hydrant	EA	1		
30	Clearing and Grubbing	AC	0.80		
31	Stripping (6" Depth, PM)	CY	16,620		
32	Unclassified Excavation (FM)	CY	7,200		
33	Borrow Excavation (FM)	CY	8,500		
34	Seeding	AC	4.80		
35	Bermuda Solid Sod	SY	49,876		
36	Temporary Construction Road	EA	2		
37	Straw Wattle	LF	1,625		
38	Temporary Silt Fence	LF	6,985		
39	18" Thick Rock Rip-Rap (200 LB)	TN	37		
40	Modified Type "1" Comb. Curb and Gutter	LF	1,070		
41	2" Surface Course SC-1, Type 8	TN	1,216		
42	4" Surface Course SC-1, Type 8	TN	4,198		
43	3" Base Course BB-1, Type 6	TN	540		
44	4" Base Course BB-1, Type 6	TN	1,082		
45	4" PCC sidewalk/plaza with welded wire mesh	SY	10,518		

46	Hydrated Lime, 6% by Dry Unit Soil Wt.	TN	130		
47	12" Soil-Lime-Water Mixing, Class C	SY	3,270		
48	4" White Painted Stripe	LF	13,241		
49	4" Blue Painted Stripe	LF	1,749		
50	Legend White 24" Stop Bar	LF	30		
51	Legend White	SF	112		
52	Wheel Stop	EA	18		
53	Handicap Sign	EA	16		
54	Electrical (per plans)	LS	1		
55	Fencing-5' Black Vinyl Coated, 8-gauge	LF	8,711		
56	Fencing-8' Black Vinyl Coated, 8-gauge	LF	1,849		
57	Synthetic Turf Infield-Fields 1-4 (11,339 sf)	EA	4		
58	Synthetic Turf Infield-Field 5 (12,437 sf)	EA	1		
59	Synthetic Turf Infield-Field 6 (16,987 sf)	EA	1		
60	3" Compacted Stabilized Infield Mix	TN	930		
61	#57 Crushed Limestone	CY	341		
62	Type V Geotextile Fabric for drainage	SY	2,805		

63	Course Sand	CY	22		
64	SS-3 Grate Inlet, All Depths	EA	2		
65	8" Inline Drain, 12" Solid Top (noted as cleanout on plans-softball and baseball)	EA	33		
66	12" PVC Drain Basin, 12" Solid Top	EA	17		
67	15" PVC Drain Basin, 15" Grate	EA	9		
68	18" PVC Drain Basin, 15" Grate	EA	2		
69	24" PVC Drain Basin, 15" Grate	EA	4		
70	24" PVC Drain Basin, 24" Grate	EA	16		
71	Cast in Place Concrete Inlet, Contech 15" Grate	EA	1		
72	15" RCP Flared End Section	EA	1		
73	18" RCP Flared End Section	EA	1		
74	24" RCP Flared End Section	EA	2		
75	8" Perforated HDPE	LF	4,088		
76	8" A2000 PVC	LF	435		
77	12" A2000 PVC	LF	543		
78	15" A2000 PVC	LF	540		

79	18" A2000 PVC	LF	499		
80	24" A2000 PVC	LF	861		
81	2" SCH. 40 PVC Irrigation Sleeving	LF	12		
82	4" SCH. 40 PVC Irrigation Sleeving	LF	12		
83	3/4" SDR 13.5 PVC Water Line	LF	250		
84	2" SDR 13.5 PVC Water Line	LF	60		
85	2.5" SDR 13.5 PVC Water Line	LF	300		
86	3" SDR 13.5 PVC Water Line	LF	680		
87	4" C900 PVC Water Line	LF	347		
88	6" C900 PVC Water Line	LF	48		
89	8" C900 PVC Water Line	LF	25		
90	Ground Hydrant	EA	6		
91	4" Double Check Valve Assembly in Enclosure	EA	1		
92	Connection to Existing Manhole	EA	1		
93	6" SDR26 PVC Sanitary Sewer	LF	303		
94	6" SS Cleanout	EA	1		
95	Sanitary Sewer Manhole, 4' Dia.	EA	1		

96	Irrigation Controller to serve Fields 1-6	LS	1		
97	Irrigation Controller to serve Fields 7 & 8	LS	1		
98	Softball Concession Stand Building	LS	1		
99	Baseball Concession Stand Building	LS	1		
100	Dugout Structure	EA	22		
101	Shade Structure	EA	35		
102	Brick Backstop Wall	EA	11		
103	Brick Seat/Planter Wall	EA	3		
TOTAL (BASE BID) \$ _____					

II. ALTERNATES

ITEM #	DESCRIPTION	UNIT	Quantity	Unit Price	Total Cost
1.	Asphalt Removal and Replacement per C7.0S Paving Plan	LS	1	(+/-)	(+/-)
2.	Hydroseed in lieu of solid sod at baseball fields	SY	42,086	(+/-)	(+/-)
3.	Musco lighting substitution (provide submittal package with bid)	LS	1	(+/-)	(+/-)
4.	Rainbird or approved equal irrigation system at softball fields	LS	1	(+/-)	(+/-)

5.	Rainbird or approved equal irrigation system at baseball fields similar to existing layout-abandon ex. system in place.	LS	1	(+/-)	(+/-)
6.	Removal of Concrete Pavement performed by City of Pearl (Pay Item 2)	SY	1,086	(+/-)	(+/-)
7.	Removal of Asphalt Pavement performed by City of Pearl (Pay Item 3)	SY	2,406	(+/-)	(+/-)
8.	Removal of Gravel Parking Lot performed by City of Pearl (Pay Item 5)	SY	1,816	(+/-)	(+/-)
9.	Removal of Dugout (Includes Structure, Bench, and Fence) performed by City of Pearl (Pay Item 7)	EA	16	(+/-)	(+/-)
10.	Removal of Shade Structure performed by City of Pearl (Pay Item 8)	EA	3	(+/-)	(+/-)
11.	Removal of Shed performed by City of Pearl (Pay item 9)	EA	1	(+/-)	(+/-)
12.	Removal of Score Keeper Box performed by City of Pearl (Pay Item 10)	EA	8	(+/-)	(+/-)
13.	Removal of Metal Bleachers performed by City of Pearl (Pay Item 11)	EA	14	(+/-)	(+/-)
14.	Removal of Wood Fencing, All Types and Sizes performed by City of Pearl (Pay Item 12)	LF	72	(+/-)	(+/-)
15.	Removal of Chain Link Fencing performed by City of Pearl (Pay Item 13)	LF	7,870	(+/-)	(+/-)
16.	Removal of Signs performed by City of	EA	17	(+/-)	(+/-)

	Pearl (Pay Item 16)				
17.	Removal of Outfield Advertising Signs performed by City of Pearl (Pay Item 17)	EA	7	(+/-)	(+/-)
18.	HP storm pipe in lieu of A2000 pvc-8"	LF	435	(+/-)	(+/-)
19.	HP storm pipe in lieu of A2000 pvc-12"	LF	543	(+/-)	(+/-)
20.	HP storm pipe in lieu of A2000 pvc-15"	LF	540	(+/-)	(+/-)
21.	HP storm pipe in lieu of A2000 pvc-18"	LF	499	(+/-)	(+/-)
22.	HP storm pipe in lieu of A2000 pvc-24"	LF	861	(+/-)	(+/-)

III. BID SUMMARY

TOTAL BID \$ _____

TOTAL BID IN WORDS: _____

Dollars

IV. UNIT PRICING

1. Provide Labor, Equipment and Supervision to excavate, remove and dispose of additional unsuitable soils if encountered, per cubic yard, (FM) (\$ _____/CY)
2. Provide Labor, Equipment and Supervision to clean and seal asphalt cracks 1/2" and larger with hot rubberized type joint sealant if necessary prior to asphalt overlay, per linear foot, (\$ _____/LF)
3. Provide Labor, Equipment and Supervision to perform asphalt pavement base repair if necessary prior to asphalt overlay, per square yard, (\$ _____/SY)

NOTE: The Bidder must bid all Alternates and provide all requested unit pricing if any. The City of Pearl reserves the right to select any, all, or none of the Alternates; whatever may be to the advantage of the district. The Owner will award the Construction Contract to the lowest and best, responsive Bidder unless the City of Pearl elects to reject all bids.

Upon the receipt of written notice of acceptance of this Bid, the BIDDER will execute the formal Contract (attached) within ten (10) days and deliver the Surety Bonds and Certificates of Insurance as required by the General Conditions.

BIDDER hereby agrees to commence work under this Contract on or before a date to be specified in written "Notice to Proceed" of the OWNER and to fully complete the Project within **360** consecutive

calendar days thereafter as stipulated in the Specifications. BIDDER further agrees to pay as liquidated damages the sum of **Eight Hundred and 00/100 Dollars (\$800.00)** for each consecutive calendar day thereafter as hereinafter provided in Paragraph 17 of the General Conditions.

The BID SECURITY attached in the sum of _____
_____ DOLLARS (\$_____)

is to become the property of the City of Pearl in the event the Contract and Contract Bonds are not executed within the time set forth as liquidated damages for the delay and additional expense to the City of Pearl.

BIDDER acknowledges receipt of the following Addenda:

<u>Addendum No.</u>	<u>Date</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Respectfully submitted,

(Contractor)

BY: _____

(Business Address)

(SEAL - if Bid is by a Corporation)

Attachments:

BIDDER'S CORPORATE DECLARATION

(To be Filled in if BIDDER is a Corporation)

DATE: _____, 20__

Our Corporation is chartered under the laws of the State of _____ and the names, titles and business addresses of the executives are as follows:

President

Secretary

Address

Address

Treasurer

Address

BID BOND

ALL MEN BY THESE PRESENTS, that we, undersigned, _____
_____ as Principal, and _____
_____ as Surety, are hereby held and firmly bound unto the
City or Pearl as OWNER, in the penal sum of _____
_____ Dollars, (\$ _____) for the
payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors
and assigns.

Signed, this _____ day of _____, 20__.

THE CONDITION OF this obligation is such that whereas the Principal has submitted to the OWNER a
certain BID, attached hereto and hereby made part hereof to enter into a contract in writing, for the _____

NOW, THEREFORE,

- (a) If said BID shall be rejected, or
- (b) If said BID shall be accepted and the Principal shall execute and deliver a contract in the
Form of Contract attached hereto (properly completed in accordance with said BID) and
shall furnish a BOND for his faithful performance of said contract, and for the payment
of all persons performing labor or furnishing materials in connection therewith, and shall
in all other respects perform the agreement created by the acceptance of said BID, then
this obligation shall be void, otherwise the same shall remain in force and effect; it being
expressly understood and agreed that the liability of the Surety for any and all claims
hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.
The Surety, for value received, hereby stipulates and agrees that the obligations of said
Surety and its BOND shall be in no way impaired or affected by any extension of the

time within which the OWNER may accept such BID; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seal, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their property officers, the day and year first set forth above.

Principal (L.S.)

Surety

By: _____
Attorney-in-Fact and Mississippi Resident Agent

(Typed Name and Address)

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the PROJECT is located.

SECTION 01020

ALLOWANCES

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Related work specified elsewhere:
 - 1. Sections of specifications as listed under schedule of allowances.
- B. Allowances for products:
 - 1. Purchase products under each allowance as directed by Engineer. And provide for the Engineer, in writing, items 2a, 2b, & 2c below.
 - 2. Amount of each allowance item includes:
 - a. Net invoiced cost of product from manufacturer (on letterhead from manufacturer).
 - b. Delivery and unloading at site
 - c. Applicable taxes
 - 3. In addition to amounts of allowance, include in the “base bid” and/or “contract sum”, contractor's cost for:
 - a. Handling at site, including uncrating and storage
 - b. Protection from elements; from damage
 - c. Labor, installation, and finishing
 - d. Other expenses required to complete installation and clean-up
 - e. Overhead and profit.

NOTE: The cost associated with Items 3a - 3e above, is “Outside” the allowance figure and is to be included in the Base Bid.
- C. Selection of products:
 - 1. Engineer's duties: Consult with contractor in consideration of products and suppliers; make selection, designate products to be used and notify contractor in writing.
 - 2. Contractor's duties: Assist Engineer in determining qualified suppliers'; obtain proposals from suppliers when requested by Engineer; and make appropriate recommendations for consideration of Engineer. Upon notification of selection, enter into purchase agreement with designated supplier.
- D. Delivery: The Contractor is responsible for arranging all delivery and unloading and should promptly inspect products for damage or defects and submit claims for transportation damage.
- E. Installation: Comply with requirements of referenced specification section.

- F. Adjustment of costs: Should actual purchase cost be more or less than the specified amount of allowance, contract sum will be adjusted by change order equal to amount of difference.
- G. Contingency: Any amount specified as a “contingency” shall be included in base bid. By including in base bid, it is understood that this amount increases overhead and profit. Any additional overhead and profit shall also be included in base bid. Any amount returned to Owner through Change Order shall include overhead and profit.

1.2 SCHEDULE OF ALLOWANCES

- A. Include in the bid of the contract sum, the amount of \$10,000 for electrical services performed by Entergy.
- B. Include in the bid of the contract sum, the amount of \$10,000 for any existing electrical conduit needing to be reworked.
- C. Include in the bid of the contract sum, the amount of \$25,000 for miscellaneous landscaping not shown in the contract drawings. This allowance does not include any vegetation shown in the contract drawings.
- D. Include in the bid of the contract sum, the amount of \$250/set of hardware. Reference Specification 08 71 00 Finish Hardware, Part 2.1 item B: Allowance.
- E. Include in the bid of the contract sum, the amount of \$500 per 1000 brick for purchase and delivery of material. Reference Specification 04 20 00 Unit Masonry, Part 2.2 item C: Allowance.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01020

SECTION 01025

MEASUREMENT AND PAYMENT

1.1 DESCRIPTION

- A. Contractor to furnish all labor, materials, tools, equipment, appurtenances and all services necessary to perform all work required, at the contract prices set forth in the Contract Agreement.
- B. No direct or separate payment will be made for providing miscellaneous temporary or accessory works, plant, services, Contractor's or Engineer's field offices, layout surveys, job signs, sanitary requirements, testing, safety devices, approval and record drawings, water supplies, power, removal of waste, watchmen, bonds, insurance, traffic management, erosion and sediment controls, pollution controls, and all other requirements of the Contract Documents. Compensation for all such services, things and materials to be included in the contract prices bid.

1.2 COMPENSATION

A. GENERAL:

- 1. The compensation as herein provided constitutes full payment for performance of the work. The compensation will further constitute full payment for all materials, labor, and equipment, and incidental items of construction furnished by the Contractor.
- 2. Material or work for which a Pay Item is not included in the Contract which is necessary to complete the work as contemplated under any section in the Specifications, furnished or performed, and is considered incidental to the completed construction, no additional payment will be made.

B. ALLOWANCE ITEMS:

- 1. Payment for item(s) of work of this contract for which specific information is necessary to develop a bid price is not available prior to bidding; the allowance provides adequate budget and bonding to constitute full compensation for furnishing all labor, materials, and equipment, and performing any associated Contractor quality control, environmental protection, meeting safety requirements, test and reports, and for performing work defined within the allowance.
- 2. Payment to the Contractor for work on Allowance Item(s) represents direct costs associated with the item.
- 3. No Contractor markup permitted on Allowance Item(s).

1.3 PAY ITEMS

1) Mobilization / Demobilization

- i. Payment Schedule: Payment will be made for mobilization and demobilization at the Contract Lump Sum Price according to the following schedule:
 - a. Sixty (60) percent of the Lump Sum Price will be paid upon completion of the Contractor’s mobilization at the project site, subject to approval by the engineer.
 - b. The remaining forty (40) percent of the Lump Sum Price will be paid upon completion of demobilization, subject to approval by the Engineer.
 - c. The total of all payments not to exceed the original Contract Lump Sum Price.

2) Sawcutting & Removal, Relocation, Adjustment, and Replacement of Obstructions

- i. Measurement: Measurement for removal, relocation, adjustment, and replacement based as per contract unit specified on Bid Form.
- ii. Basis of Payment: Sawcutting Removal items will be paid for at the unit price bid per unit specified on bid form; which price shall be full compensation for removal and disposal of such items, excavation and subsequent backfill incidental to their removal. Foundations for signs, buildings, or any other structure needing support and utilities with appurtenances supporting a building shall be included in the unit price for such removal item. The price shall also include salvage of materials removed, their custody, preservation, storage on the site and disposal as provided herein. The price shall be full compensation for removal and disposal of such item to its entirety.

Removal and replacement items will be paid for at the unit price bid per unit removed and replaced. Relocation items will be paid for at the unit price bid per unit relocated. Replace and adjust items will be paid for at the unit price bid per unit replaced and adjusted to proposed grade.

DESCRIPTION OF ITEM	UNIT
Removal of Concrete Pavement, All Depths	SY
Removal of Asphalt Pavement, All Depths	SY
Sawcut Asphalt Pavement, All Thicknesses	LF
Removal of Gravel, All Thicknesses	SY
Removal of Concession Stand Building	EA
Removal of Dugout (Includes Structure, Bench, and Fence)	EA
Removal of Shade Structure	EA
Removal of Shed	EA
Removal of Score Keeper Box	EA
Removal of Metal Bleachers	EA

Removal of Wood Fencing, All Types & Sizes	LF
Removal of Chain Link Fencing	LF
Removal of Timber Edge	LF
Removal of Scoreboard	EA
Removal of Signs	EA
Removal of Outfield Advertising Signs	EA
Removal of Bollards	EA
Removal of Flag Pole	EA
Removal of Pole Gate	EA
Remove and Replace Grate Inlet with Cast in Place Concrete Inlet-EJIW #V-5724-1 2'x2' Frame and Grate	EA
Remove and Replace Grate Inlet with Cast in Place Concrete Inlet-Contech 15" Grate	EA
Remove and Replace Grate Inlet Top with Cast in Place solid top	EA
Removal of Storm Piping, All Types and Sizes	LF
Removal of Sanitary Sewer Piping, All Types and Sizes	LF
Removal of Water Piping, All Types and Sizes	LF
Replace and Adjust Utility Boxes to Grade	EA
Removal of Backflow Preventor	EA
Relocate Fire Hydrant	EA

3) Clearing and Grubbing

- i. Measurement: Measurement for Clearing and Grubbing is based per acre performed per the plans.
- ii. Basis of Payment: This item will be paid for at the unit price bid per acre as stated in the Bid Form; which price shall be full compensation for all clearing and grubbing operations, removal of structures and obstructions (when separate Pay Items are not called for in the Bid Form), disposal of residue materials, salvage of usable materials and for furnishing all materials, equipment, tools, labor and incidentals necessary to complete the work herein specified (unless separate Pay Items are contained in the Bid Form). All costs in connection therewith shall be included in the per acre bid for clearing and grubbing.

Landscaping shown to be removed on the plans shall be included in the unit price for clearing and grubbing.

DESCRIPTION OF ITEM	UNIT
Clearing and Grubbing	AC

4) Stripping

- i. Measurement: Measurement for Stripping is based per cubic yard performed at the specified depth and computed using the following method:
 - a. Plan Measurement: This method shall consist of cross-sectioning by survey the original terrain features and the applications of typical sections, areas, depths as specified in the plans to determine the total amount of stripping performed.
- ii. Basis of Payment: This item will be paid for at the unit price bid per cubic yard as stated in the Bid Form; which price shall be full compensation for furnishing all labor, equipment, tools, materials and incidentals necessary to complete the stripping in the manner prescribed. Payment shall further constitute full compensation for haul, placement, compaction, and/or disposal of all stripped material.

DESCRIPTION OF ITEM	UNIT
Stripping (6" Depth, PM)	CY

5) Excavation

- i. Measurement: Measurement for Excavation is based per cubic yard excavated per the plans and computed using the following method:
 - a. Final Measurement: This method shall consist of cross-sectioning by survey of the original terrain features and the "as-excavated" features to determine the total excavation performed for each class.

Hauling of unclassified excavation between softball and baseball fields will not be measured for separate payment and shall be included in the unit price bid for unclassified excavation.

- ii. Basis of Payment: This item will be paid for at the unit price bid per cubic yard for each class of excavation performed. The price shall be full compensation for all excavation; dewatering; sheeting and bracing (unless otherwise provided for as a Bid Item in the Bid Form); and for furnishing all labor, equipment, tools, materials and incidentals necessary to complete the excavation in the manner prescribed. Payment shall further constitute full compensation for haul, placement, compaction, and/or disposal of all excavated material.

DESCRIPTION OF ITEM	UNIT
Unclassified Excavation (FM)	CY
Borrow Excavation, Compacted in Place (FM)	CY

6) Seeding

- i. Measurement: The completed and accepted seeding will be measured in acres.
- ii. Basis of Payment: Seeding shall be paid for at the Contract Unit Price bid per acre, which price shall be full compensation for furnishing, inoculating, planting and maintaining the seeds until final acceptance of the Contract, for ground preparation, application of commercial fertilizer, mulch, agricultural limestone, watering, all materials, equipment tools, labor and incidentals necessary to complete the work. Temporary seeding necessary to comply with MDEQ construction storm water permit as a result of contractor project phasing shall be incidental and included in the unit price bid for seeding.

DESCRIPTION OF ITEM	UNIT
Seeding	AC

7) Bermuda Solid Sod

- i. Measurement: Solid sodding, constructed and established as specified, complete in place and accepted, will be measured by the square yard.
- ii. Basis of Payment: Solid sodding, measured as prescribed above, will be paid for at the unit price bid per square yard of solid sodding complete in place; price shall be full compensation for all trenching out, fine grading, ground preparation, seating the solid sod to the section specified; for backfill and disposal of surplus material; for furnishing, transporting and planting the sod; for all replanting deemed necessary; for application of commercial fertilizer, mulch, agricultural limestone, furnishing water and watering; for all plant establishment; and for all other materials, equipment, tools, labor and incidentals necessary to complete the work.

DESCRIPTION OF ITEM	UNIT
Bermuda Solid Sod	SY

8) Temporary Construction Road

- i. Measurement: Measurement for Temporary Construction Road, complete in place and accepted per the plans, based per each.
- ii. Basis of Payment: Temporary Construction Road will be paid for at the unit price bid per each, which will be full compensation for completing, maintaining, removal, and disposal.

DESCRIPTION OF ITEM	UNIT
Temporary Construction Road	EA

9) Straw Wattle

- i. Measurement: Straw wattles, complete in place and accepted, will be measured for payment by the linear foot of wattles placed in constructing, replacing, and maintaining erosion control per the plans.
- ii. Basis of Payment: This item will be paid for at the unit price bid per linear foot, which shall be full compensation for completing, maintaining, and removing the wattles and the removal and disposal of silt accumulations.

DESCRIPTION OF ITEM	UNIT
Straw Wattle	LF

10) Temporary Silt Fence

- i. Measurement: Temporary silt fence, complete in place and acceptable, will be measured for payment by the linear foot.
- ii. Basis of Payment: Silt fence will be paid for at the Contract Unit Price per linear foot which shall be full compensation for completing and maintaining the work.

DESCRIPTION OF ITEM	UNIT
Temporary Silt Fence	LF

11) Rock Rip-Rap

- i. Measurement: Rock rip-rap, type and thickness as specified on the plans, complete in place and accepted, will be measured for payment by the ton.
- ii. Basis of Payment: This item will be paid for at the unit price bid per ton for loose riprap, type as specified on the plans, complete in place; which price shall be full compensation for all materials, labor, equipment, tools, and incidentals necessary to complete the work.

DESCRIPTION OF ITEM	UNIT
18" Thick Rock Rip-Rap (200 LB)	TN

12) Concrete Curb and Gutter

- i. Measurement: Concrete curb and gutter, type as specified on the plans, complete in place and accepted, will be measured for payment by the linear foot along the face of the curb.
- ii. Basis of Payment: This item will be paid for at the unit price bid per linear foot for concrete curb and gutter, type as specified on the plans, complete in place; which price shall be full compensation for all materials including reinforcing steel; for all fine grading, backfilling and disposal of surplus materials; and for all labor, equipment, tools, and incidentals necessary to complete the work.

DESCRIPTION OF ITEM	UNIT
Modified Type "1" Combination Curb and Gutter	LF

13) Asphalt

- i. Measurement: Measurement for asphalt courses, mix design as specified on plans, based as per ton per the plans.

Bituminous tack and prime coats will not be measured for direct payment, but shall be considered a necessary part of the construction involved, and the cost thereof shall be included in the appropriate contract price.

Milling per the geotechnical report that is required along curbs, drainage structures, adjacent pavements, etc. necessary to install new asphalt pavement will not be measured for direct payment, but shall be considered a necessary part of the construction involved, and the cost thereof shall be included in the appropriate contract price.

- ii. Basis of Payment: This item will be paid for at the unit price bid per ton for plant mix, complete in place, which price shall be full compensation for construction of the completed base course, leveling course, or surface course, as directed provisions and requirements contained herein; for completing all incidentals thereto and for furnishing all materials (as provided by these Specifications, the Plans or the bid form) including their hauling or transportation, mixing equipment, tools, labor and incidentals required to complete the work.

The unit price bid for base course shall be used for compensation for any base repair work determined in the field per the geotechnical report.

No allowance will be made for unacceptable material; for material furnished or used in excess of the amount indicated or directed; for material used in replacing defective or condemned construction; for material wasted in handling, hauling, or otherwise. No additional payment will be made for extra weight placed which is not authorized as hereinabove set forth; nor for material used in connection therewith; and for maintaining the work in accordance with the provisions and requirements set forth herein.

DESCRIPTION OF ITEM	UNIT
2" Surface Course SC-1, Type 8	TN
4" Surface Course SC-1, Type 8	TN
3" Base Course BB-1, Type 6	TN
4" Base Course BB-1, Type 6	TN

14) Concrete Sidewalk

- i. Measurement: The area of completed and accepted concrete sidewalk will be measured and computed in square yards, using the neat dimensions show on the plans, and, unless otherwise ordered in writing by the Engineer, such dimensions shall not exceed those shown on the plans.
- ii. Basis of Payment: This item will be paid for at the unit price bid per square yard for concrete sidewalk, complete in place including reinforcement if required; which price

shall be full compensation for all fine grading, backfilling and disposal of surplus material; and for all material, forms, equipment, tools, labor and incidentals necessary to complete the work.

DESCRIPTION OF ITEM	UNIT
4" PCC sidewalk/plaza with welded wire mesh	SY

15) Soil-Lime Treatment

- i. Measurement: Soil-lime-water mixing will be measured by the square yard of accepted area. The length used will be the actual horizontal length computed along the centerline of the subgrade and the width used shall be that shown on the Plans or established.

Hydrated lime which is actually incorporated in the completed work shall be measured in tons of 2,000 pounds or fractions thereof.

Additional lime used to reconstruct unacceptable sections will not be measured for payment.

- ii. Basis of Payment: Soil-lime-water mixing will be paid for at the unit price bid per square yard, complete and accepted; which price shall be full compensation for all preparation of the subgrade; for furnishing and applying water; for scarifying, pulverizing and drying the soil (if required); for mixing and remixing the soil, lime and water; for shaping and compaction of the mixture; for reconstruction of deficient section; for all protection, cover and maintenance of the completed subgrade; and for all equipment, tools labor and incidentals necessary to complete the work.

Hydrated lime will be paid for at the unit price bid per ton, which price shall be full compensation for furnishing lime and water; for preparation and application of slurry; for all hauling and maintaining; and for all equipment, tools, labor and incidentals necessary to complete the work.

DESCRIPTION OF ITEM	UNIT
Hydrated Lime, 6% by Dry Unit Soil Wt.	TN
12" Soil-Lime-Water Mixing, Class C	SY

16) Painted Pavement Markings

- i. Measurement: Painted pavement markings completed in accordance with the Plans and Specifications will be measured by the mile or by the linear foot, as indicated, from end-to-end of individual stripes. In the case of skip lines the measurement will include skips. The length used to measure centerline and edge stripes will be the horizontal length computed along the stationed control line.

- ii. Basis of Payment: Painted pavement markings will be paid for at the unit price bid per mile, linear foot, or square yard as applicable.

DESCRIPTION OF ITEM	UNIT
4" White Painted Stripe	LF
4" Blue Painted Stripe	LF
Legend White 24" Stop Bar	LF
Legend White	SF

17) Electrical

- i. Measurement: The completed site electrical work shall be considered as a unit of work (Lump Sum) and shall include demolition of existing items, the furnishing and installing of equipment and accessories; and the performance of all incidental items of work required to furnish the Owner with a completed system ready for use.
- ii. Basis of Payment: Payment of the Lump Sum Price shall constitute full compensation for the furnishing, installing or constructing the site electrical including all incidental items of construction required to perform the specified work. Payment shall further constitute full compensation for all equipment, material and incidental items of work within the limits required in these Contract Documents or as delineated on the Construction Drawings unless separate payment for a particular item of work is specifically provided for in the bid form.

DESCRIPTION OF ITEM	UNIT
Electrical (per plans)	LS

18) Fencing

- i. Measurement: Measurement of chain link fencing shall be by the number of linear feet installed for the type and height specified.

Gate assemblies will not be measured for separate payment and shall be included in the unit price bid for fencing.

- ii. Basis of Payment: Payment of the Contract Unit Price for fencing and gate assemblies shall constitute full compensation for the furnishing and installing of all posts, fabric, gates, barbed wire and all other incidental items required to complete the work.

Payment shall further constitute full compensation for furnishing all equipment, materials, labor and incidentals thereto required by the Contractor in the performance of the work.

DESCRIPTION OF ITEM	UNIT
Fencing-5' Black Vinyl Coated, 8-gauge	LF
Fencing-8' Black Vinyl Coated, 8-gauge	LF

19) Infield Mix

- i. Measurement: Infield mix shall be measured by the ton installed and accepted for the mix type specified on the plans.
- ii. Basis of Payment: Infield mix of the specified compacted thickness and type will be paid for at the unit price bid per ton. Payment shall constitute full compensation for furnishing all materials, loading, hauling, spreading, mixing, shaping, compacting, watering and maintenance per the manufacturer's recommendations; and for all labor, equipment, tools and incidentals necessary to complete the work.

DESCRIPTION OF ITEM	UNIT
3" Compacted Stabilized Infield Mix	TN

20) Synthetic Turf Infield

- i. Measurement: Measurement for synthetic turf infield, installed and accepted per plans and specifications, shall be per each for the various sizes listed on the bid form.
- ii. Basis of Payment: This item will be paid for at the unit prices bid per unit (Each) for the various sizes of synthetic turf infields installed. Payment shall constitute full compensation for furnishing all materials, equipment, and labor for the following: removing all utility piping and structures within turf installation limits, shaping and fine grading with laser equipment the subgrade to the required plan elevations, geotextile fabric, 12" Advanedge panel drains and fittings, #89 limestone, #57 limestone, fine grading subbase stone with laser equipment, perimeter edge and transition details, carpet backing, synthetic turf, infill material, striping, base anchors, home plate, 3 bases, and any other incidentals necessary to complete the work ready for use.

Payment shall also constitute full compensation for field quality control items such as surveying, inspection, and testing to ensure satisfactory performance for owner acceptance.

DESCRIPTION OF ITEM	UNIT
Synthetic Turf Infield-Fields 1-4	EA
Synthetic Turf Infield-Field 5	EA
Synthetic Turf Infield-Field 6	EA

21) Crushed Limestone

- i. Measurement: Crushed limestone shall be measured by the cubic yard, installed and accepted, per the plans and shall be computed using plan measurement method.
- ii. Basis of Payment: Crushed limestone will be paid for at the unit price bid per cubic yard. Payment shall constitute full compensation for furnishing all materials, loading, hauling, and placing; and for all labor, equipment, tools and incidentals necessary to complete the work.

DESCRIPTION OF ITEM	UNIT
#57 Crushed Limestone	CY

22) Geotextile Fabric

- i. Measurement: Fabric placed in accordance with these Specifications and as directed by the Engineer will be measured by the square yard of surface area covered. Any overwidth of material install and additional material required for laps or sewing will not be measured.
- ii. Basis of Payment: The accepted quantity of fabric will be paid for at the unit price per square yard. This payment will be full compensation for furnishing and placing the fabric, pins, lapping, sewing, maintaining the fabric until covered, and satisfactory completion of the Work.

DESCRIPTION OF ITEM	UNIT
Type V Geotextile Fabric for drainage	SY

23) Course Sand

- i. Measurement: Course sand shall be measured by the cubic yard installed and accepted per the plans.
- ii. Basis of Payment: Course sand of the specified size on the plans will be paid for at the unit price bid per cubic yard. Payment shall constitute full compensation for furnishing all materials, loading, hauling, spreading, mixing, shaping, watering and maintenance; and for all labor, equipment, tools and incidentals necessary to complete the work.

DESCRIPTION OF ITEM	UNIT
Course Sand	CY

24) Storm Drainage Structures

- i. Measurement: All manholes, inlets, catch basins, junction boxes and similar special drainage appurtenances will be measured per each installed.

Measurement shall include all castings, gratings, frames and other incidental items required to construct a complete unit. No separate measurement will be made for structure excavation, structure bedding/backfill, sheeting and shoring or for disposal of surplus materials.
- ii. Basis of Payment: This item will be paid for at the unit prices bid per unit (Each) for the various types and sizes of drainage structures installed. The price shall constitute full compensation for all bedding/backfill unless special bedding/backfill is provided for in the bid form.

DESCRIPTION OF ITEM	UNIT
SS-3 Grate Inlet, All Depths	EA
8" Inline Drain, 12" Solid Top	EA
12" PVC Drain Basin, 12" Solid Top	EA
15" PVC Drain Basin, 15" Grate	EA
18" PVC Drain Basin, 15" Grate	EA
24" PVC Drain Basin, 15" Grate	EA
24" PVC Drain Basin, 24" Grate	EA
Cast In Place Concrete Inlet, Contech 15" Grate	EA
15" RCP Flared End Section	EA
18" RCP Flared End Section	EA
24" RCP Flared End Section	EA

25) **Storm Drainage Piping**

- i. Measurement: The length of pipe of the several types, classes and sizes designated (new or relayed as the case may be) will be determined in linear feet by multiplying the number of commercial lengths [necessary and used to provide the staked length(s)], by the nominal laying length per pipe section, except that any lengths extended more than two feet (2') beyond the staked ends of the pipe or, in the case that the end(s) of the pipe are cut off flush with the face of the structure, any length extending more than two feet (2') beyond the longest projection of the pipe at the face of the structure shall be excluded from the measurement for payment. The net pay length, thusly determined, shall be rounded off to the nearest foot. **Fittings will not be measured for separate payment and shall be included in the unit price bid for storm drainage piping.**
- ii. Basis of Payment: Payment will be made at the respective unit prices bid per linear foot for the various types and sizes of pipe and arch pipe, complete in place, and shall include all trench excavation, bedding/backfill (unless select gravel backfill is specified in the bid form as a pay item), for all sheeting, shoring and bracing, for all dewatering, and for cleaning up the site in an acceptable manner.

DESCRIPTION OF ITEM	UNIT
8" Perforated HDPE	LF
8" A2000 PVC	LF
12" A2000 PVC	LF
15" A2000 PVC	LF
18" A2000 PVC	LF
24" A2000 PVC	LF

26) Irrigation Sleeving

- i. Measurement: Irrigation sleeving, complete in place and acceptable, will be measured for payment by the linear foot.
- ii. Basis of Payment: Irrigation sleeving will be paid for at the unit prices bid for various size sleeves per linear foot which shall be full compensation for completing and maintaining the work.

DESCRIPTION OF ITEM	UNIT
2" SCH. 40 PVC Irrigation Sleeving	LF
4" SCH. 40 PVC Irrigation Sleeving	LF

27) Water Piping

- i. Measurement: Water piping shall be measured in units of linear feet for the various sizes and types listed in the bid form. Fittings and thrust concrete thrust blocking will not be measured for separate payment and shall be included in the unit price bid for water piping.
- ii. Basis of Payment: Payment will be made at the respective unit prices bid per linear foot for the various types and sizes of water piping at all increments of depth installed, complete in place, and unless otherwise specified, shall include the restoration and repair of any pavement or street surface necessary to be cut out during construction of the water piping. The contract prices shall be full compensation for all trench excavation and bedding/backfill unless gravel backfill is specified in the bid as a pay item and for furnishing all materials, appurtenances, accessories, labor, tools and equipment necessary to complete the work.

The contract price for water piping construction shall further constitute full compensation for the testing and disinfection of the piping.

The furnishing and installing of restrained joints shall be a subsidiary item of work in constructing the water main. No separate pay item shall be provided in the bid form.

DESCRIPTION OF ITEM	UNIT
3/4" SDR 13.5 PVC Water Line	LF
2" SDR 13.5 PVC Water Line	LF
2.5" SDR 13.5 PVC Water Line	LF
3" SDR 13.5 PVC Water Line	LF
4" C900 PVC Water Line	LF
6" C900 PVC Water Line	LF
8" C900 PVC Water Line	LF

28) Water Structures

- i. Measurement: Gate valves, gate valve boxes, fire hydrants, specialty valves, water meter boxes, and service assemblies (including service clamps, corporation stops, curb stops, connections, water meters and boxes, and markers) shall be measured in units of "each" for the various sizes, classes, styles and types listed in the bid form.
- ii. Basis of Payment: Payment will be made at the respective unit prices bid per each for the various types and sizes of gate valves, gate valve boxes, fire hydrants, specialty valves, and other appurtenances.

DESCRIPTION OF ITEM	UNIT
Ground Hydrant	EA
4" Double Check Valve Assembly in Enclosure	EA

29) Connection to Existing Manhole

- i. Measurement: Measurement for connecting to the existing sanitary sewer system based as per each as shown on the plans.
- ii. Basis of Payment: This item will be paid for at the unit price bid per each for tapping and connecting to the existing sanitary complete in place. Price to be full compensation for excavation, shoring, tap, disposal of surplus material, backfill and site restoration. Price includes all material, equipment, tools, labor and incidentals necessary to complete the work.

DESCRIPTION OF ITEM	UNIT
Connection to Existing Manhole	EA

30) Sanitary Sewer Piping

- i. Measurement: Gravity piping will be measured in linear feet along the centerline of the pipe from center-to-center of manholes and from center of manhole to center of junction with existing main or plugged end. **Fittings will not be measured for separate payment and shall be included in the unit price bid for sanitary sewer piping.**
- ii. Basis of Payment: Payment will be made at the respective unit prices bid per linear foot for the various types and sizes of sewer piping installed, complete in place, and shall include all trench excavation, pipe bedding/backfill with select material, backfilling over pipe, for all sheeting, shoring and bracing, for all steel sheet piling, for all dewatering and for testing and flushing the completed system.

DESCRIPTION OF ITEM	UNIT
6" SDR26 PVC Sanitary Sewer	LF

31) Sanitary Sewer Structures

- i. Measurement: Sanitary structures shall be measured as the number of completed and accepted units (each) in place per the plans.
- ii. Basis of Payment: Sanitary structures will be paid for at the unit price per each for the type installed, complete in place and accepted. This price shall include all excavation and backfilling necessary for the satisfactory completion of the work.

DESCRIPTION OF ITEM	UNIT
6" SS Cleanout	EA
Sanitary Sewer Manhole, 4' Dia.	EA

32) Irrigation Controllers

- i. Measurement: Installing the irrigation controllers as specified on the plans shall be considered as a unit of work (Lump Sum) and shall include demolition of existing items, salvaging of necessary items, furnishing and installing of equipment and accessories; and the performance of all incidental items of work required to furnish the Owner with a completed system ready for use.
- ii. Basis of Payment: Payment of the Lump Sum Price shall constitute full compensation for furnishing and installing the irrigation controllers including all incidental items of construction required to perform the specified work. Payment shall further constitute full compensation for all equipment, material, labor and incidental items of work within the limits required in these Contract Documents or as delineated on the Construction Drawings unless separate payment for a particular item of work is specifically provided for in the bid form.

DESCRIPTION OF ITEM	UNIT
<u>Irrigation Controller to serve Fields 1-6</u>	LS
<u>Irrigation Controller to serve Fields 7 & 8</u>	LS

33) Concession Buildings

- i. Measurement: Concession buildings shall be considered as a unit of work (Lump Sum) per the plans and specifications. Measurement shall include all architectural, structural, plumbing, mechanical components, furnishing and installing of equipment and accessories; and the performance of all incidental items of work required to furnish the Owner with a completed concession building ready for use.
- ii. Basis of Payment: Payment of the Lump Sum Price shall constitute full compensation for the furnishing, installing, and construction of all work specified by architectural, structural, plumbing, and mechanical disciplines; and all incidental items of construction required to perform the specified work. Payment shall further constitute full compensation for all equipment, material, labor and incidental items of work within the limits required in these Contract Documents or as delineated on the Construction Drawings unless separate

payment for a particular item of work is specifically provided for in the bid form.

DESCRIPTION OF ITEM	UNIT
Softball Concession Stand Building	LS
Baseball Concession Stand Building	LS

34) Dugout Structure

- i. Measurement: Dugout structures shall be measured per each installed per the plans. Measurement shall include excavation/disposal of material, concrete slab and foundation pour, metal structure, bleachers, the furnishing and installing of equipment and accessories; and the performance of all incidental items of work required to furnish the Owner with a completed dugout structure ready for use.
- ii. Basis of Payment: Payment of the per each unit price shall constitute full compensation for the furnishing, installing, and construction of the entire dugout structure including slab and foundation, all incidental items of construction required to perform the specified work. Payment shall further constitute full compensation for all equipment, material and incidental items of work within the limits required in these Contract Documents or as delineated on the Construction Drawings unless separate payment for a particular item of work is specifically provided for in the bid form.

DESCRIPTION OF ITEM	UNIT
Dugout Structure	EA

35) Shade Structure

- i. Measurement: Shade structures shall be measured per each installed per the plans. Measurement shall include excavation/disposal of material, foundation, metal structure, bleachers, the furnishing and installing of equipment and accessories; and the performance of all incidental items of work required to furnish the Owner with a completed shade structure ready for use.
- ii. Basis of Payment: Payment of the per each unit price shall constitute full compensation for the furnishing, installing, and construction of the entire shade structure including foundation and all incidental items of construction required to perform the specified work. Payment shall further constitute full compensation for all equipment, material and incidental items of work within the limits required in these Contract Documents or as delineated on the Construction Drawings unless separate payment for a particular item of work is specifically provided for in the bid form.

DESCRIPTION OF ITEM	UNIT
Shade Structure	EA

36) Brick Backstop and Seat/Planter Wall

- i. Measurement: Brick walls shall be measured per each installed per the plans. Measurement shall include excavation/disposal of material, foundation, cmu, brick, post and tension cabling, netting, backstop padding, the furnishing and installing of equipment and accessories; and the performance of all incidental items of work required to furnish the Owner with a completed brick wall ready for use.
- ii. Basis of Payment: Payment of the per each unit price shall constitute full compensation for the furnishing, installing, and construction of the entire brick wall including foundation, posts and tension cabling, netting, backstop padding, and all incidental items of construction required to perform the specified work. Payment shall further constitute full compensation for all equipment, material and incidental items of work within the limits required in these Contract Documents or as delineated on the Construction Drawings unless separate payment for a particular item of work is specifically provided for in the bid form.

DESCRIPTION OF ITEM	UNIT
Brick Backstop Wall	EA
Brick Seat/Planter Wall	EA

END OF SECTION 01025

SECTION 32 18 15

OUTDOOR SYNTHETIC PLAYING FIELD SURFACING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions apply to this section.
 - 1. Related Work: Various spec sections contain work specified elsewhere that is related to this section, including but not limited to information on Rough Grading, Excavation,
 - 2. Granular Material, Drainage Systems and others.

1.2 SCOPE OF WORK

- A. Furnish all labor, materials, tools and equipment necessary to install, in place, all synthetic turf material as indicated on the plans and as specified herein; including components and accessories required for a complete installation. The installation of all new materials shall be performed in strict accordance with the manufacturer's written installation instruction, and in accordance with all approved shop drawings.
- B. Prior to order of materials, the Contractor shall submit all material, data and certifications required herein.
- C. Prior to the beginning of installation, the manufacturer/installer of the synthetic turf shall inspect the sub-base and supply a Certificate of Sub-base Acceptance for the purpose of obtaining manufacturer's warranty for the finished synthetic playing surface.
- D. All components and their installation shall be designed and manufactured for use on outdoor athletic fields, shall be able to withstand full climatic exposure, be resistant to insect infestation, rot, fungus, mildew, ultra-violet light and heat degradation, and shall have the basic characteristic of flow-through drainage allowing free movement of surface run-off through the turf and directly into prepared granular base and the field drainage system specified.
- E. Prior to Final Acceptance, the Synthetic Turf Contractor shall submit to the Owner three (3) copies of Executed Warranty Documents and Maintenance Manuals, which will include necessary instructions for the proper care and preventative maintenance of the synthetic turf system, including painting and striping.

1.3 REFERENCE STANDARDS

- A. FM Factory Mutual
 - 1. P7825 - Approval Guide; Factory Mutual Research Corporation; current edition
- B. ASTM - American Society for Testing and Materials.
 - 1. D1577 - Standard Test Method for Linear Density of Textile Fiber
 - 2. D5848 - Standard Test Method for Mass Per Unit Area of Pile Yarn Floor Covering
 - 3. D1338 - Standard Test Method for Tuft Bind of Pile Yarn Floor Covering
 - 4. D1682 - Standard Method of Test for Breaking Load and Elongation of Textile Fabrics
 - 5. D5034 - Standard Test Method of Breaking Strength and Elongation of Textile Fabrics (Grab Test)
 - 6. F1015 - Standard Test Method for Relative Abrasiveness of Synthetic Turf Playing Surfaces
 - 7. D4491 - Standard Test Methods for Water Permeability of Geotextiles by Permittivity

8. D2859 - Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials
9. F355 - Standard Test Method for Shock-Absorbing Properties of Playing Surfaces.
10. F2117 - Standard Test Method for Vertical Rebound Characteristics of Sports Surface Systems: Acoustical Measurements (Soccer)
11. BS7044, Section 2.2 Methods for Determination of Person/Surface Interaction Method 1: Determination of Traction (Rotational Resistance)
12. F1551-03 Suffix: DIN 18-035, Part 6: Water Permeability of Synthetic Turf Systems
13. ASTM F355-10, Procedure A: Testing Services Inc test number TSI 1202

1.4 SUBMITTALS

- A. ~~With the Bid~~ **Within 24 hrs of bid submission, the apparent low bidder must** submit the following information:
1. The name of the product being bid, the manufacturer of the product, and the sources of the fiber, backing and coating components of the system.
 2. Independent third-party testing certification as listed below.
 3. Submit a copy of the manufacturers standard 8 year non-prorated warranty .
 4. Reference list and certified statement(s) verify the minimum requirements outlined in Quality Assurance.
 5. Samples: Submit samples, 12 x 12 inch turf sample and Infill Mix sample, illustrating details of finished product.
 6. Hold Harmless Agreement: Document holding the City of Pearl and its representatives harmless as to any liability and or costs of any type, including but not limited to legal costs, royalties, replacement cost, etc. associated with any claim by the Synthetic/Artificial Turf Manufacturer or Contractor or others associated and with an d patents of infringements methods or drainage characteristics. It is not the intent of these documents to promote or induce the use of intellectual property belonging to others or promote infringement of any know or currently not know patents, licenses of rights of others.
- B. Comply with Section 01630, Product Options and Submittals Procedures. Submit for approval prior to fabrication.
- C. Provide the submittals outlined below within 14 days of Notice to Proceed.
1. Shop Drawings:
 - a. Indicate field layout; field marking plan and details for the specified sports; i.e.; roll/seaming layout; methods of attachment, field openings and perimeter conditions.
 - b. Show locations of all seams, tufted-in field lines and marking boundings.
 - c. Show installation methods and construction indicating field verified conditions, clearances, measurements, terminations, drainage.
 - d. Provide installation and details for all accessories such as inserts, covers, etc...
 - e. Provide joint submission with related trades when requested by Architect.
 2. Product Data:
 - a. Submit manufacturer's catalog cuts, material safety data sheets (MSDS), brochures, specifications; preparation and installation instructions and recommendations; storage, handling requirements and recommendations.
 - b. Submit fiber manufacturer's name, type of fiber and composition of fiber.
 - c. Submit data in sufficient detail to indicate compliance with the contract documents.
 3. Submit manufacturer's instructions for installation.
 4. Submit manufacturer's instructions for maintenance for the proper care and preventative maintenance of the synthetic turf system, including painting and markings.
 5. Product Certification:

- a. Submit manufacturer's certification that products and materials comply with requirements of the specifications.
 - b. Submit test results indicating compliance with Reference Standards.
 6. List of existing installations of similar fields: Submit list including respective Owner's representative and telephone number.
 7. Sample of Warranty specified.
- D. Submit the following at the close of the job.
1. Project Record Documents: Record actual locations of seams, drains and other pertinent information in accordance with Specifications, General Requirements. Note any deviations from the contract documents.
 2. Certifications: Copies of the Manufacturer's acceptance and certification of the base and the turf system installation.
 3. Maintenance and Operations Data: Submit 3 complete sets of all the manufacture's recommended procedures and materials for, but not limited to general maintenance, line/markings installation, small repair procedures, cleaning, etc...
 4. Warranties: Submit warranty and ensure that forms have been completed in Owner's name and registered with approved manufacturer.
 5. Delivery Receipts: Submit bills of lading/material delivery receipts for synthetic turf, infill materials, and all other materials used for the project. All documents shall bear the name of the project, project address, quantity of materials delivered, source of origin, manufacturer and date of delivery.
- E. Testing Certification: Submit (at bid and with shop drawings) certified copies of independent (third-party) laboratory reports on ASTM testing for the exact system being bid:
1. Pile Height, Face Weight & Total Fabric Weight, ASTM D5848.
 2. Primary & Secondary Backing Weights, ASTM D5848.
 3. Tuft Bind, ASTM D1335.
 4. Grab Tear Strength, ASTM D1682 or D5034.
 5. Water Permeability, ASTM D4491

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Approved Manufacturers shall be responsible for the design, engineering, manufacturing of their product and shall comply with the following requirements and be experienced in manufacturing synthetic playing surface materials similar to those indicated for this Project and with a record of successful in-service performance.
1. Assumes responsibility for engineering synthetic playing surface components to comply with performance requirements. This responsibility includes preparation of Shop Drawings and comprehensive analysis by a qualified professional engineer. This responsibility includes the design of the base/drainage system, the synthetic turf and infill. See Part 2 for minimum material requirements and Part 3 for minimum installation requirements.
 2. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of synthetic playing surfaces that are similar to those indicated for this Project in material, design, and extent.
 3. Shall provide proof that system has been subject long term, independent, epidemiological and peer reviewed studies proving its ability to provide for a safe playing surface.
 4. Shall have its own, in-house laboratory where samples of turf are retained and analyzed. Tests shall be performed at all levels of production from the extrusion process to the tufting process and through to the final stages before the turf is loaded to a transport service.

5. Shall have the experience of at least one-hundred(100) acceptable installations of similar fields (minimum of 65,000 SF) in the United States within the past five (5) years comprised of infilled slit-film/monofilament synthetic grass systems, including fiber, backing, backing coating, installation similar to the acceptable systems listed below and as otherwise specified herein.
 - a. Must not have had more than five (5) fields replaced, under warranty during the past five (5) years.
 6. ~~Turf shall be manufactured at plants operated by the Manufacturer in the United States.~~
 7. Manufacturer shall be compliant with ISO 9000, ISO 14001 and OHSAS 18001 international standards.
 8. ~~Shall be a certified member of the Synthetic Turf Council in good standing, and be able to provide verifying documentation.~~
 9. Shall have manufactured and installed fields at every level of completion, including High School, College, and professional MLB Fields.
- B. Installer Qualifications: Engage an experienced installer to perform work of this Section who, in the past 3 years, has installed at least 100 synthetic playing field systems of the type required for this Project and who is acceptable to manufacturer.
1. The designated Supervisory Personnel on the project shall be certified, in writing by the turf manufacturer, as competent in the installation of specified monofilament material, including sewing seams and proper installation of the infill mixture.
 2. Installer shall be trained and certified, in writing, by the manufacturer and licensed.
 3. The installer supervisor shall have a minimum of 5 years of experience as either a construction manager or a supervisor of synthetic turf installations.
- C. Pre-Installation Conference: Conduct conference at project site at time to be determined by Architect. Review methods and procedures related to installation including, but not limited to, the following:
1. Inspect and discuss existing conditions and preparatory work performed under other contracts.
 2. In addition to the Contractor and the installer, arrange for the attendance of installers affected by the Work, The Owner's representative, and the Architect.
- D. The Contractor shall verify special conditions required for the installation of the system.
- E. The Contractor shall notify the Architect of any discrepancies.
- 1.6 DELIVERY, STORAGE, HANDLING, SEQUENCE AND SCHEDULING
- A. Comply with Section 01610, Product Requirements.
 - B. Prevent contact with materials that may cause dysfunction.
 - C. Deliver and store components with labels intact and legible.
 - D. Store materials/components in a safe place, under cover, and elevated above grade.
 - E. Protect from damage during delivery, storage, handling and installation. Protect from damage by other trades.
 - F. Inspect all delivered materials and products to ensure they are undamaged and in good condition.
 - G. Comply with manufacturer's recommendations.
 - H. complete all work in accordance with the time limitations specified and in accordance with the General Contractor's coordinated and published schedule.
 - I. Coordinate the work with installation of work of related trades as the Work proceeds.
 - J. Sequence the work in order to prevent deterioration of installed system.

1.7 WARRANTY

- A. Warranty Period: 3rd Party Insured, Pre-paid, Non-prorated, full replacement value, policy which shall guarantee the usability and playability of the synthetic surface for its intended purpose for a period of 8 years from date of Substantial Completion. The following conditions shall apply:
1. Must warrant materials and workmanship, including defects.
 2. Must warrant that the materials installed meet or exceed the product specifications within manufacturing tolerances, and that installation was completed in accordance with the Manufacturer's recommendation and directives.
 3. Must include general wear and damage caused from UV degradation, including but not limited to:
 - a. Color match within specifications
 - b. Excessive fiber wear and tear
 - c. Wrinkling and panel movement
 - d. Seam integrity
 - e. Drainage through turf system
 4. Must not exclude acceptable uses or the use of steel cleats.
 5. Must maintain a G-max of less than 165 for the life of the Warranty on all areas of the field per ASTM F1936 testing.
 6. Must have a provision to either repair or replace such portion of the installed materials that are no longer serviceable to maintain a serviceable and playable surface, including a provision for 100% full replacement, minimum of \$7 per square foot, in case of complete product failure, which will include removal and disposal of the existing surface.
 7. Must be a Prepaid Manufacturer's warranty from a single source covering workmanship and all self-manufactured or procured materials.
 8. Must have an annual aggregate amount of no less than ~~\$60 million~~ **\$15 million**, and a per incident limit of no less than \$7 million per claim and must not include any form of deductible to the Owner. Must not be limited to the amount of annual usage.
 9. Manufacturer must verify that they have inspected the installation and confirmed that it meets are warrant requirements of the manufacturer and as specified herein.
 10. Biannual inspections shall be performed to maintain warranty.
 11. Third party insurer must have an AM Best Rating of A++ or better.

1.8 MAINTENANCE SERVICE

- A. Manufacturer/Installer shall train maintenance staff and/or contracted maintenance staff in the use of the recommended maintenance equipment.
- B. Provide maintenance guidelines and a maintenance video to the facility maintenance staff.

PART 2 – PRODUCTS

2.0

ACCEPTABLE MANUFACTURERS AND SYSTEMS

A. Approved Underlayment Pad Manufacturers and Systems:

1. Basis of Design: SP Shockpad 14 by Brock USA; 3090 Sterling Circle, Suite 102, Boulder, CO 80301, Phone: 303.544.5800,
www.brockusa.com.

Or approved equal

(see attached technical properties sheet)

2.1 ACCEPTABLE MANUFACTURERS AND SYSTEMS

A. Approved Manufacturers:

1. AstroTurf Corporation; 2680 Abutment Road, SE, Dalton, GA 30721, Phone: 706.277.8873; www.astroturf.com.
2. Field Turf USA, Inc.; 175 North Industrial Blvd, Calhoun, GA 30701, Phone: 800.724.2969; <https://fieldturf.com/en/>.
3. Shaw Sports Turf; 185 South Industrial Blvd, Calhoun, GA 30701, Phone: 866.703.4004; www.shawsturf.com.

B. Approved Systems:

1. Diamond Series OSP by AstroTurf Corporation.
2. Double Play Classic / Classic XT by Field Turf USA, Inc..
3. SpikeZone Pro / TruHop by Shaw Sports Turf.
4. Listing as an approved system in no way relieves any of the requirements specified herein.

C. Substitutions: Any substitutions in manufacturer or system ~~must be approved by the Owner prior to the submission of bids and~~ may only be considered if they meet ALL requirements of this specifications.

D. Infill Manufacturers and Systems:

1. Basis of Design: BrockFill by Brock USA; 3090 Sterling Circle, Suite 102, Boulder, CO 80301, Phone: 303.544.5800, www.brockusa.com.
2. Equal products as manufactured by one of the approved turf system manufacturers.

2.2 SYSTEM

2.2 SYSTEM COMPONENTS

A. Synthetic Turf System: shall consist of:

1. Carpet made of a combination of polyethylene long fibers and monofilament nylon thatch fibers. Long fibers may be slit-film, monofilament or a combination of the two, per the approved systems listed. Fibers shall be tufted into a minimum two layer primary backing and coated with a urethane secondary backing. Products must meet the minimum specifications listed herein. Products without nylon thatch fibers will not be accepted.
2. Infill comprised of rubber crumb and sand mixed in proportions as allowed by the proprietary recommendations associated with the approved systems listed.
3. Glue, thread, paint, seaming fabric and other materials used to install and mark the system and playing surface.

B. Finished playing surfaces: shall appear as mowed grass and shall resist abrasion and cutting from normal use. It shall provide good traction in all types of weather with use of composition or mold sole athletic shoes, baseball spikes, conventional sneaker, tennis shoe and molded sports cleats.

C. Coverage/Color: Two areas of coverage are required each with distinct colors:

1. Green Turf Areas: Provide at locations shown in drawings and subject to the performance criteria listed below. Color to be selected from the manufacturer's standards.

2. Brown Turf Areas: Provide at locations shown in drawings and subject to the performance criteria listed below. Color to be selected from the manufacturer's standards.
- D. Material Requirements:
1. Underlayment System: General Requirements for Underlayment System – An impact energy absorbing sub-base drainage system designed specifically for use with synthetic turf is required. The specified material must have physical, drainage and performance properties that meet the following requirements:
 - A. Minimum material nominal thickness 14mm – material thickness must be within $\pm 1.5\text{mm}$
 - B. Tensile Strength > 45 psi (ASTM D3574-08 Test E)
 - C. Tensile Elongation > 10% (ASTM D3574-08 Test E)
 - D. Compression Strength > 25 psi @ 25% strain (ASTM 3575-08 Test D)
 - E. Linear Thermal Expansion < 0.10 mm / m /° C (ASTM D696)
 - F. Water Absorption $\leq 5\%$ after 24 hrs (ISO 62:2008 / DIN 53428)
 - G. Water Permeability > 500 in/hr (ASTM 1551 DIN 18-035, Part 6)
 - H. Head Injury Criterion < 1,000 from > 0.4 m drop height (ASTM F3146-18, Procedure A)
 - I. Gmax < 160 g (ASTM 355-16 Missile A)
 - J. Shock Absorption > 55% (EN 14808:2005 / ASTM F3189-17)
 - K. Vertical Deformation < 4.0 mm (EN 14809:2005)
 - L. Resistance to Chemicals ≤ 2 (ASTM F925)
 - M. Resistance to Bacteria - no growth (ASTM G22)
 - N. Resistance to Fungi – no growth (ASTM G21)
 - O. Surface system must provide maximum average Gmax of 110 g upon initial testing of installed field (ASTM F1936-10)
 - P. Surface system must provide maximum average Gmax of field of 135 g during warranty period of artificial turf (ASTM F1936-10)
 2. Backing:
 - a. Primary Backing: multi -layer woven polypropylene with UV stabilizers passing 3000 hours of QUV A Testing.
 - b. Secondary Backing: High quality polyurethane applied to the primary backing, heat activated to lock fiber tufts into primary backing or manufacturer's proprietary standard.
 - 1) Entire backing system should be coated. Partially coated backing is not acceptable.
 - c. Backing shall be perforated per the manufacturers standard to allow for a permeability that allows for 40 inches of rain to drain per hour, or greater if required by engineering specified elsewhere in the specifications of drawings.

3. Fiber: A combination of polyethylene long fibers and monofilament nylon thatch fibers. Long fibers may be slit-film, monofilament or a combination of the two, as recommended by the approved manufacturers and as established by the approved systems
 4. Infill:
 - 1) BrockFill (or equal) and silica sand shall be used. A minimum of 2.5 lbs sand and 0.7 lbs BrockFill to achieve the desired infill depth for turf pile height submitted. Fill height, weight and density to comply with the performance and warranty requirements specified herein.
 - A - Performance Criteria are as follows:
 - (1) Shall be engineered wood particle comprised of virgin natural pine wood, and sustainably harvested and domestically sourced
 - (2) Shall be free of pesticides and heavy metals
 - (3) Shall maintain a vertical drainage rate exceeding that of the turf system and tested per ASTM F-1551
 - (4) Shall not materially degrade as an infill - minimum of 80% material shall fall between sieve screens of .8mm-2mm per BS EN 933-1:2012
 - (5) Shall be hydrophilic and allow absorption of rain or condensation
 - (6) Minimum bulk density of 15 lbs / cubic foot
 - (7) Shall come with a 10 year warranty.
 - B - Sand shall be semi-round to semi-angular and compliant with ASTM. Sand shall be between 10-40 sieve size.
 5. Thread for sewing seams of turf shall be as recommended by the manufacturer.
 6. Glue/Adhesive/Seaming Tape shall be as recommended by the manufacturer and shall be resistant to moisture, freeze/thaw, bacteria and fungus growth/attacks, and to degradation by ultraviolet radiation.
 7. Perimeter Edging and Transition detailing required for the system shall be as detailed and recommended by the manufacturer unless shown otherwise in the drawings.
 8. Accessories:
 - a. Provide 8 sets of Velcro pre-assembled “batter box” and “catcher box “ ~~per field~~ for replacement during the warranty period.
- E. Performance Criteria are as follows:
1. Green Turf Areas:
 - a. Finished file Height per ASTM D 5823 - 1.5 - 1.75 inches
 - b. Linear Density per ASTM D 1577 – 7,200 (Mono) or 5,000 (slit) min
Monofilament Nylon Thatch Denier per ASTM D 1577 – 4,500 min
 - c. Pile Weight per ASTM D5848 – 42 oz/sy min
 - d. Primary Backing Weight per ASTM D 5848 - 8 oz/sy min
 - e. Secondary Coating Weight per ASTM D 5848 - 20 oz.sy min
 - f. Total Product Weight per ASTM D 5848 – 70 oz/sy min
 - g. Fabric Width per ASTM D 5793 - 15 feet
 - h. Tuft Gauge per ASTM D 5793 - 3/8”-1/2”
 - i. Grab Strength avg. per ASTM D 5034 - Greater than 200 lb.-F
 - j. Tuft Bind avg. per ASTM D 1335 - Greater than 8 lb.-F
 - k. Permeability - >30 inches/hour
 - l. Relative abrasiveness: Abrasive index of 20.2, when tested in accordance with ASTM F 1015.

- m. Shock Absorbency: Less than 130 average GMAX at installation and less than 165 average GMAX over the life of warranty when tested in accordance with ASTM F 1936 and ASTM F 355.
- n. Flammability: Passes when tested in accordance with ASTM D 2859.
- o. Final Grade: as shown on drawings and as approved by the manufacture

2. Brown Turf Areas:

- a. Finished file Height per ASTM D 5823 - 1.125 – 1.75 inches
- b. Linear Density per ASTM D 1577 –9,000 min
Monofilament Nylon Thatch Denier per ASTM D 1577 – 4,500 min
- c. Pile Weight per ASTM D5848 – 50 oz/sy min
- d. Primary Backing Weight per ASTM D 5848 - 8 oz/sy min
- e. Secondary Coating Weight per ASTM D 5848 - 20 oz.sy min
- f. Total Product Weight per ASTM D 5848 – 78 oz/sy
- g. Fabric Width per ASTM D 5793 - 15 feet
- h. Tuft Gauge per ASTM D 5793 – 1/4"-3/8"
- i. Grab Strength avg. per ASTM D 5034 - Greater than 200 lb.-F
- j. Tuft Bind avg. per ASTM D 1335 - Greater than 8 lb.-F
- k. Permeability - >30 inches/hour
- l. Relative abrasiveness: Abrasive index of 20.2, when tested in accordance with ASTM F 1015.
- m. Shock Absorbency: Less than 130 average GMAX at installation and less than 165 average GMAX over the life of warranty when tested in accordance with ASTM F 1936 and ASTM F 355.
- n. Flammability: Passes when tested in accordance with ASTM D 2859.
- o. Final Grade: as shown on drawings and as approved by the manufacture

2.3 FIELD MARKINGS

- A. General: Field markings shall be as indicated on the drawings and installed in accordance with approved shop drawings or as otherwise accepted to the Owner.
- B. No inlaid lines will be accepted with the exception of on deck circle, coaches box and city logos.
- C. Batter and catcher boxes shall be done with Velcro seams over a 4" concrete base. **Supply 3 additional sets per field of replaceable boxes with Velcro attached.**
- D. Field logos (if any) shall be permanently applied or tufted into the playing surface using polypropylene fibers and in accordance with manufacturer's standard palette of turf colors.
- E. Foul Lines shall be tufted into the individual foul line rolls.

2.4 SPECIAL MAINTENANCE EQUIPMENT

- A. General: Provide special materials, tools, and equipment, as recommended by the synthetic material manufacturer, required for maintenance of the playing surface based on the conditions of the Manufacturer's Warranty. Such equipment shall include at minimum a field groomer/sweeper with tow attachment compatible with a field utility vehicle (John Deere Pro Gator 2020A 2018 model). The groomer/sweeper shall be wide enough to cover 36" wide swath in single pass. Manufacturer shall also provide equipment and/or tools that allow for sanitization and cleaning of turf with water and cleaners as recommended by the Manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions where playing surface will be installed, with Installer present, for compliance with requirements for conditions affecting performance of installed playing surface.
 - 1. Verify that substrates for placing playing surface are firm; dry; clean; free from oil, and waxy films.
 - 2. Verify base for compaction, planarity, drainage and permeability as specified.
 - 3. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located under playing surface has been completed before installing drainage tile.
 - 4. Verify that joints and cracks in substrates will not adversely affect installed playing surface.
 - 5. Verify ambient temperatures are in compliance with manufacturer's recommendations for installation.
- B. Do not proceed with installation until unsatisfactory conditions have been corrected.
- C. Installer shall examine and accept the sub-base surface in writing prior to beginning of installation.
- D. Beginning of installation means acceptance of existing conditions.

3.2 EARTHWORK EXECUTION

- A. General: Remove material of every nature or description encountered in obtaining required lines and grades. Excavate and/or place and compact fill to provide for elevation(s) required by Drawings. Excavation is all considered unclassified and includes excavation to subgrade elevations indicated, regardless of character of materials and obstructions encountered.
 - 1. Conform to elevations and grades shown within a tolerance of plus or minus one-half inch in 10 feet either direction.
 - 2. Sub-grade is to be compacted and tested and shall be a minimum of 95% proctor density.

3.3 PREPARATION

- A. Dimensions of the field and locations for markings shall be measured by a registered surveyor to verify conformity to the specifications, drawings and applicable standards. A record of the finished field as-built measurements shall be made.
- B. Inspected delivered field components immediately prior to installation for both mixing, quality or quantity. Any damaged or defective items shall be rejected. Any product not meeting the requirements of this specification shall be rejected by the contractor and replaced without cost to the Owner.
- C. Proceed with installation only when existing and forecasted weather conditions permit and work can be performed according to the Contractor's and Manufacturer's written instructions and warranty requirements.

3.4 INSTALLATION

- A. Over subgrade and filter fabric, install synthetic turf in accordance with manufacturer's written instructions. Install at location(s) indicated, to comply with final shop drawings, manufacturers'/installer's instructions.
- B. The Contractor shall strictly adhere to specified procedures. Any variance from these requirements shall be provided in writing, by the manufacturer's on-site representative, and submitted to the Architect and/or Owner, verifying that the changes do not in any way affect the Warranty. Infill materials shall be approved by the manufacturer and installed in accordance with the manufacturer's standard procedures.

- C. Carpet rolls shall be installed directly over the properly prepared aggregate base. Extreme care shall be taken to avoid disturbing the aggregate base, both in regard to compaction and planarity. Contractor shall repair and properly compact any disturbed areas of the aggregate base as recommended by manufacturer
- D. Full width rolls shall be laid out across the field.
 - 1. Turf shall be of sufficient length to permit full cross-field installation from sideline to sideline.
 - 2. No cross seams will be allowed in the main playing area between the sidelines.
 - 3. Each roll shall be attached to the next roll utilizing standard sewing procedures.
 - 4. When all of the rolls of the playing surface have been installed, the sideline areas shall be installed at right angles to the playing surface.
- E. Artificial turf panel seams shall be sewn along the selvedge edging flap of the turf roll.
 - 1. Minimum gluing will only be permitted to repair problem areas, corner completions, and to cut in any logos or inlaid lines as required by the specifications.
 - 2. Seams shall be flat, tight, and permanent with no separation or fraying.
- F. Infill Materials: Infill materials shall be installed in thin and numerous lifts as recommended by the manufacture to fill the voids between the fibers and allow the fibers to remain vertical and non-directional. Vibrate infill materials into turf at a rate and depth recommended by the manufacturer. Place in such a way as to minimize fiber entrapment. Thoroughly brush to remove all wrinkles. Install to a settled depth of ½” below top of fiber unless otherwise approved by the Owner.
- G. Synthetic turf shall be attached to the perimeter edge detail in accordance with the manufacturer’s standard procedures.

3.5 FIELD QUALITY CONTROL

- A. Testing Agency: Contractor shall engage a qualified independent testing and inspecting agency to perform tests and inspections throughout the duration of the warranty, and to prepare test reports, to ensure satisfactory performance. Testing agency shall inspect and test the following:
 - 1. Subgrades and each fill or backfill layer.
 - 2. Compaction of soils in place according to ASTM D 1556, ASTM D 2167, ASTM D 2922, and ASTM D 2937, as applicable.
 - 3. Surface performance requirements.
 - 4. Surface impact and shock absorbency according to ASTM F 1936 and ASTM F 355
- B. Grade Verification: A certified survey shall be performed at 10 foot centers from the field centerline to verify each of the following:
 - 1. Grade and elevation of subgrade.
 - 2. Grade and elevation of the gravel drainage blanket layer above the subgrade.
 - 3. Final grade and elevation of finished playing surface.
- C. As a condition of the warranty, Contractor shall review the condition of the playing surface on a yearly basis to evaluate owner’s maintenance protocols.

3.6 PROTECTION, ADJUSTMENT AND CLEANING

- A. Do not permit traffic over unprotected surfaces.

- B. Provide the labor, supplies, and equipment as necessary for final cleaning of surface and installed items.
- C. All usable remnants of new material shall become the property of the Owner.
- D. Keep the area clean throughout the project and clear of debris.
- E. Surfaces, recesses, enclosures, and related spaces shall be cleaned as necessary to leave the work area in a clean, immaculate condition ready for immediate occupancy and use by the Owner.
- F. Protect entire installation throughout construction process until day of final completion. Any damage to the installation and to existing facilities resulting from the installation or the failure to protect such, shall be repaired to specified or original condition without additional cost to the Owner.

END OF SECTION

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BASIS OF DESIGN CONCESSION EQUIPMENT LIST

ALL ITEMS ARE BASIS OF DESIGN – SUBJECT TO “OR EQUAL” SUBSTITUTION

REFER TO FS-1 AND FS-2 FOR PLANS AND LEGEND

ITEM B1 - EXHAUST HOOD

Custom Model CUSTOM

Exhaust Hood: By Mechanical

ITEM B2 - ELECTRIC FLOOR FRYER

Pitco Frialator Model SE14X

Softball Location: 240v 1PH

Solstice™ Fryer, electric, floor model, full frypot, 40 - 50 lb. oil capacity, solid state controls, melt cycle, boil out capacity, drain valve interlock switch, stainless steel tank, front & sides, 14.0kW, ENERGY STAR®, cULus, NSF, CE, GS

1 year parts and labor warranty from the date of installation up to a maximum of 15 months from the date of manufacture (with appropriate documentation), standard

240v/50/60/1-ph, 58.3 amps, 14 kW, DIRECT

(SSTC) Solid State Controller, standard

Model P6072145 Basket, (2) oblong/twin size, 13-1/2" x 6-1/2" x 5-1/2" deep, long handle, regular mesh (shipped std (n/c) with models "T" SG14, SG14R, SSH55, SE14, SE14X, SE14B, SG14T, 35+, 45+, fryer batteries shipped with (1) per fryer

9" legs, standard

ITEM B2 - ELECTRIC FLOOR FRYER

Pitco Frialator Model SE14

Baseball Location: 208v 3 PH

Solstice™ Fryer, electric, floor model, full frypot, 40 - 50 lb. oil capacity, solid state controls, melt cycle, boil out capacity, drain valve interlock switch, stainless steel tank, front & sides, 17.0kW, ENERGY STAR®, cULus, NSF, CE, GS

1 year parts and labor warranty from the date of installation up to a maximum of 15 months from the date of manufacture (with appropriate documentation), standard

208v/50/60/3-ph, 48.0 amps, 17 kW, DIRECT

(SSTC) Solid State Controller, standard

Model P6072145 Basket, (2) oblong/twin size, 13-1/2" x 6-1/2" x 5-1/2" deep, long handle, regular mesh (shipped std (n/c) with models "T" SG14, SG14R, SSH55, SE14, SE14X, SE14B, SG14T, 35+, 45+, fryer batteries shipped with (1) per fryer

ITEM B3 - CHEST FREEZER

Admiral Craft Model BDCF-10 Dimensions: 33(h) x 40.5(w) x 29.75(d)

Black Diamond Chest Freezer, 40-1/2"W x 29-3/4"D x 33"H overall size, 9.6 cu ft. capacity, (1) hinged lid/door, (1) wire coated basket, manual temperature control & defrost, indicator lights, -4°F to -10°F temperature range, drain plug, bottom-mounted self-contained refrigeration, aluminum interior, white powder coated steel exterior, built in casters, 115v/60/1-ph, 105 watts, 1.09 amps, 7' power cord, NEMA 5-15P, cETLus (NET/NET delivered pricing is only valid for items that are delivered to your physical

business address. Deliveries to any address, other than your physical business address, will be assessed a \$130 all-inclusive drop-ship fee for the first item. Each additional item will incur a \$10 fee.)
Warning: Cancer and Reproductive harm. For more info please visit www.P65Warnings.ca.gov
Model WARRADCRAFT1606 1 year parts & labor warranty, 5 year compressor warranty, standard

ITEM B4 - GRIDDLE, ELECTRIC, COUNTERTOP

Star Model 548TGF Dimensions: 15.5(h) x 48(w) x 27.88(d)

Softball Location: 240v 1PH

Star-Max® Heavy Duty Griddle, electric, countertop, 48" W x 20-3/4" D cooking surface, 1" thick polished griddle plate, 150°-450°F snap-action thermostat and 4000 watt element every 12", welded steel frame with stainless steel top and front, splash guard & grease trough, aluminized steel sides, chrome metal knobs, grease drawer, 4" steel legs, cULus, UL EPH Classified, CSA, Made in USA

2 year parts & labor warranty, standard

(548TGF) 208/240v/60/1-ph or 3-ph, 12.0/16.0 kW, field wired (Field convertible), standard

ITEM B4 - GRIDDLE, ELECTRIC, COUNTERTOP

Star Model 548TGF Dimensions: 15.5(h) x 48(w) x 27.88(d)

Softball Location: 208v 3PH

Star-Max® Heavy Duty Griddle, electric, countertop, 48" W x 20-3/4" D cooking surface, 1" thick polished griddle plate, 150°-450°F snap-action thermostat and 4000 watt element every 12", welded steel frame with stainless steel top and front, splash guard & grease trough, aluminized steel sides, chrome metal knobs, grease drawer, 4" steel legs, cULus, UL EPH Classified, CSA, Made in USA

2 year parts & labor warranty, standard

(548TGF) 208/240v/60/1-ph or 3-ph, 12.0/16.0 kW, field wired (Field convertible), standard

ITEM B5 - EQUIPMENT STAND, FOR COUNTERTOP COOKING

Advance Tabco Model ES-244 Dimensions: 25(h) x 48(w) x 24(d)

Equipment Stand, 48"W x 24"D x 25"H (overall), 24" working height, 14 gauge 304 stainless steel top with 1"H up-turn on sides & rear, 18 gauge adjustable stainless steel undershelf, stainless steel legs with adjustable stainless steel bullet feet, NSF

ITEM B6 - WORK TABLE, STAINLESS STEEL TOP

Advance Tabco Model TT-245-X Dimensions: 35.5(h) x 60(w) x 24(d)

Special Value Work Table, 60"W x 24"D, 18 gauge 430 stainless steel top with rolled rim on front & rear, adjustable galvanized undershelf, galvanized legs with adjustable plastic bullet feet, NSF

ITEM B7 - ICE CUBER

Ice-O-Matic Model ICE0250HT Dimensions: 20.06(h) x 30.13(w) x 24.25(d)

ICE Series™ Modular Cube Ice Maker, air-cooled, top air discharge, approximately 353 lb production/24 hours, half-size cube, filter-free air, PURE ICE built in antimicrobial protection, harvest assist produces Ice consistently/reduces operating cost, 115v/60/1-ph, 13.3 amps, cULus, NSF, CE

3 yr. parts & labor warranty, standard

5 yr. evaporator warranty, standard

5 yr. parts on the compressor warranty, standard

Model B55PS Ice Bin, 510 lb storage capacity, 30"W x 31"D x 50"H, top-hinged, slope front door, for top-mounted ice maker, polyethylene interior, durable stainless finish exterior, 6" legs, NSF

2 yr. parts & labor warranty, standard

Model IFQ1 Water Filter Manifold, single filter designed for ice makers producing up to 800 lbs. (363.6 Kg.) of ice per day, 1.5 gpm maximum flow rate, IsoNet scale inhibitor, .5 micron particle reduction, quick connect fittings (water filters must be changed every 180 days (6 months), at a minimum)

7 yr Evaporator warranty in lieu of standard 5 yr, if a water filter is purchased with the machine & filters replaced every 6 mo. (USA & Canada only)

ITEM B8 - REFRIGERATED MERCHANDISER

Custom Model BY VENDOR (NOT IN CONTRACT)

Refrigerated Merchandiser: By Others

ITEM B9 - HAND SINK

Custom Model BY PLUMBING CONTRACTOR

Hand Sink: By Others

ITEM B10 - SINK

Custom Model BY PLUMBING CONTRACTOR

Sink: By Others

ITEM B11 - SODA ICE & BEVERAGE DISPENSER

Custom Model BY VENDOR

Soda Ice & Beverage Dispenser: BY VENDOR (NOT IN CONTRACT)

ITEM B12 - WORK TABLE, STAINLESS STEEL TOP

Advance Tabco Model TTF-246-X Dimensions: 37(h) x 72(w) x 24(d)

Special Value Work Table, 72"W x 24"D, 18 gauge 430 stainless steel top with rolled rim on front & 1-1/2" backsplash on rear, adjustable galvanized undershelf, galvanized legs with adjustable plastic bullet feet, NSF

ITEM B13 - BAG IN BOX SYRUP TANK SYSTEM

Custom Model BY VENDOR (NOT IN CONTRACT)

Bag In Box: By Others

ITEM B14 - REACH-IN REFRIGERATOR

Hoshizaki Model CR1S-FS Dimensions: 79.5(h) x 27.5(w) x 34(d)

(DISCONTINUED - CHECK DISTRIBUTOR FOR AVAILABILITY) Commercial Series Refrigerator, reach-in, one-section, 22.8 cu. ft., self-contained refrigeration system, solid state digital controller with temperature alarms & LED display, stainless steel exterior front & sides, stainless steel interior, standard depth, full height solid right hinged door, (3) standard shelves, (4) 4" heavy duty casters (2 with brakes), 1/5 HP, NEMA 5-15P, cETLus, ETL-Sanitation, ENERGY STAR®

Warranty: 3-Year parts & labor on entire machine
Warranty: 5-Year parts on compressor
115v/60/1-ph, 4.0 amps, standard
Door hinged on right, standard
Casters, 4" (set of 4), field installed, standard

ITEM B15 - COFFEE BREWER
Custom Model BY VENDOR (NOT IN CONTRACT)
Coffee Brewer: By Vendor

ITEM B16 - FOOD PAN WARMER
Custom Model BY OTHERS (NOT IN CONTRACT)
Food Pan Warmer: By Others

ITEM B17 - FRENCH FRY WARMER
Custom Model BY OTHERS (NOT IN CONTRACT)
French Fry Warmer: By Others

ITEM B18 - HOT FOOD DISPENSER
Custom Model BY OTHERS (NOT IN CONTRACT)
Hot Food Dispenser: By Others

ITEM B19 - NACHO CHEESE / CHIPS WARMER, DISPLAY
Star Model 12NCPW Dimensions: 23(h) x 12(w) x 15(d)
Nacho Chip/Popcorn Merchandiser, 12"Lx15"Dx23"H, approximately 7 lb. capacity, top loading with rear dispensing door, heated interior with display light, aluminum/stainless steel frame, tempered glass panels, includes: nachos & popcorn signs, 125 watts, NSF, UL, CSA
1 year parts & labor warranty, standard
120v/60/1-ph, 1.0 amps, NEMA 5-15P, standard

ITEM B20 - POPCORN POPPER
Star Model 86S Dimensions: 30.5(h) x 19.5(w) x 14.25(d)
Super JetStar™ Popcorn Machine, electric, countertop, 8 oz. kettle capacity, (170) 1 oz. servings/hr., interior heating lamp, 1/8" thick tempered glass, stainless steel food zone, aluminum posts with stainless steel finish, cULus, UL EPH Classified, Made in USA
2 year parts & labor warranty, standard
[86S-120V] 120v/60/1-ph, 1197 watts, 10.0 amps, 6 ft. cord with NEMA 5-15P, standard

ITEM B21 - WORK TABLE, STAINLESS STEEL TOP
Advance Tabco Model TTF-244-X Dimensions: 37(h) x 48(w) x 24(d)
Special Value Work Table, 48"W x 24"D, 18 gauge 430 stainless steel top with rolled rim on front & 1-1/2" backsplash on rear, adjustable galvanized undershelf, galvanized legs with adjustable plastic bullet feet, NSF

ITEM B22 - WIRE SHELVING

Metro Model 2142BR Dimensions: 42(w) x 21(d)

Super Erecta® Shelf, wire, 42"W x 21"D, Brite (zinc) finish, plastic split sleeves are included in each carton, NSF

Model 74P Super Erecta® SiteSelect™ Post, 74-1/2"H, adjustable leveling bolt, posts are grooved at 1" increments & numbered at 2" increments, double grooved every 8", chrome finish

ITEM B22 - WIRE SHELVING

Metro Model 2148BR Dimensions: 48(w) x 21(d)

Super Erecta® Shelf, wire, 48"W x 21"D, Brite (zinc) finish, plastic split sleeves are included in each carton, NSF

Model 74P Super Erecta® SiteSelect™ Post, 74-1/2"H, adjustable leveling bolt, posts are grooved at 1" increments & numbered at 2" increments, double grooved every 8", chrome finish

ITEM B22 - WIRE SHELVING

Metro Model 2160BR Dimensions: 60(w) x 21(d)

Super Erecta® Shelf, wire, 60"W x 21"D, Brite (zinc) finish, plastic split sleeves are included in each carton, NSF

Model 74P Super Erecta® SiteSelect™ Post, 74-1/2"H, adjustable leveling bolt, posts are grooved at 1" increments & numbered at 2" increments, double grooved every 8", chrome finish

ITEM B23 - WORK TABLE, STAINLESS STEEL TOP

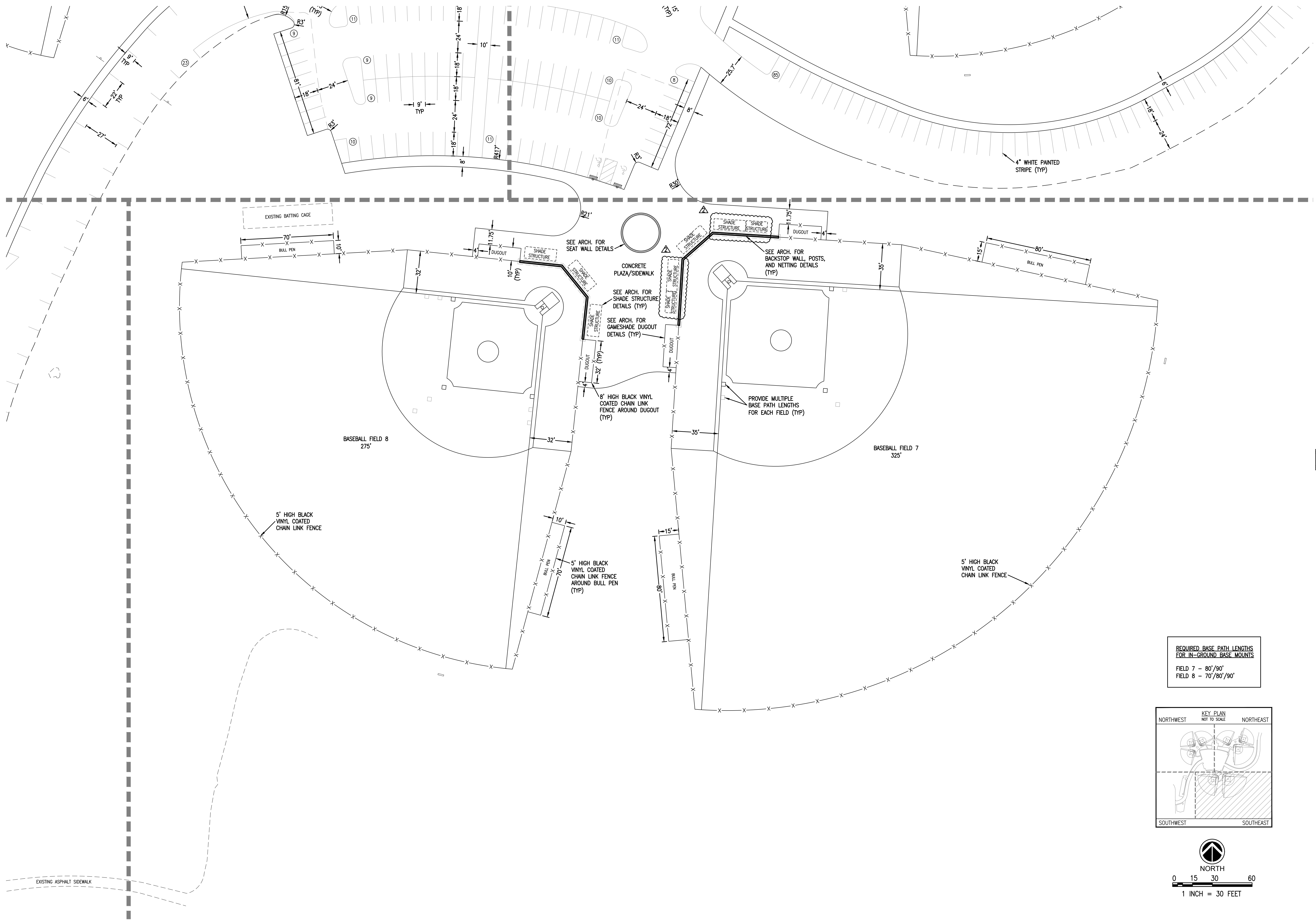
Advance Tabco Model TT-303-X Dimensions: 35.5(h) x 36(w) x 30(d)

Special Value Work Table, 36"W x 30"D, 18 gauge 430 stainless steel top with rolled rim on front & rear, adjustable galvanized undershelf, galvanized legs with adjustable plastic bullet feet, NSF

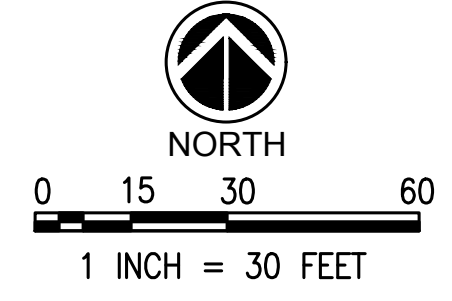
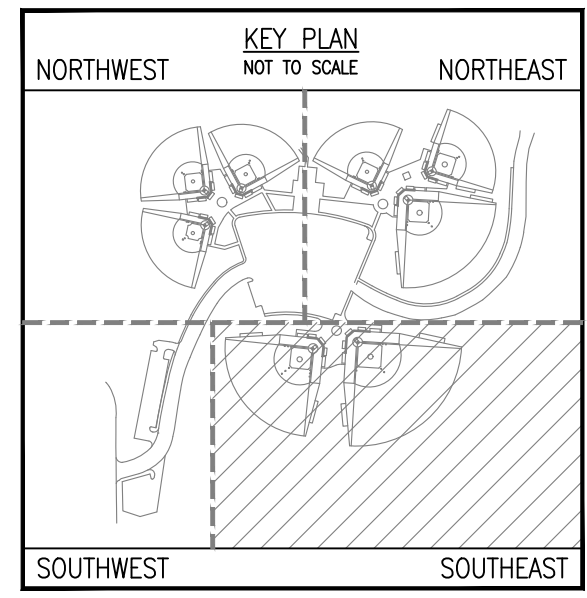
ITEM B24 - CANDY CART

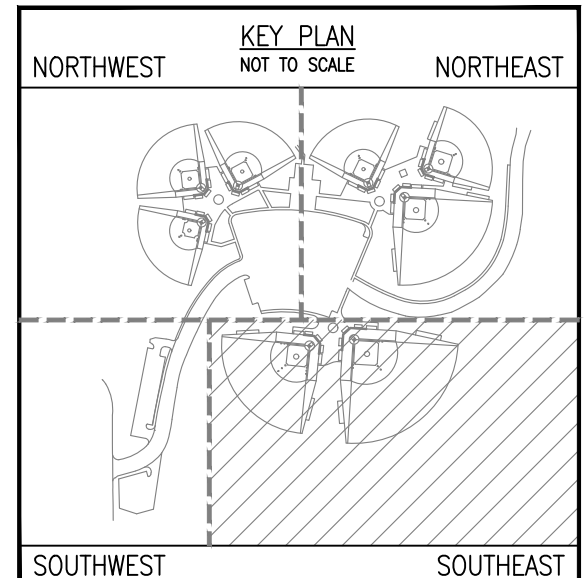
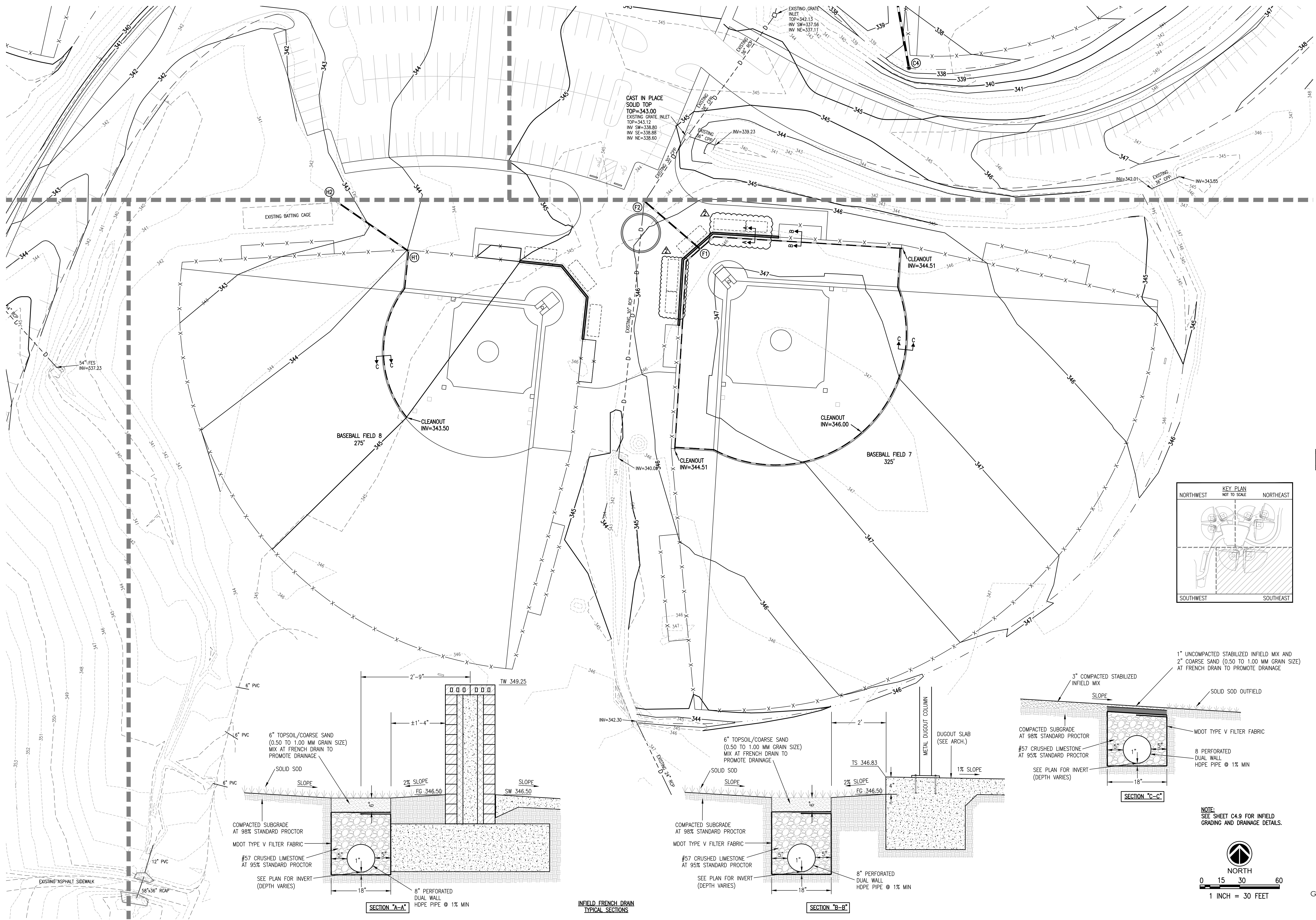
Custom Model BY VENDOR (NOT IN CONTRACT)

Candy Cart: By Others



REQUIRED BASE PATH LENGTHS FOR IN-GROUND BASE MOUNTS
 FIELD 7 - 80'/90'
 FIELD 8 - 70'/80'/90'



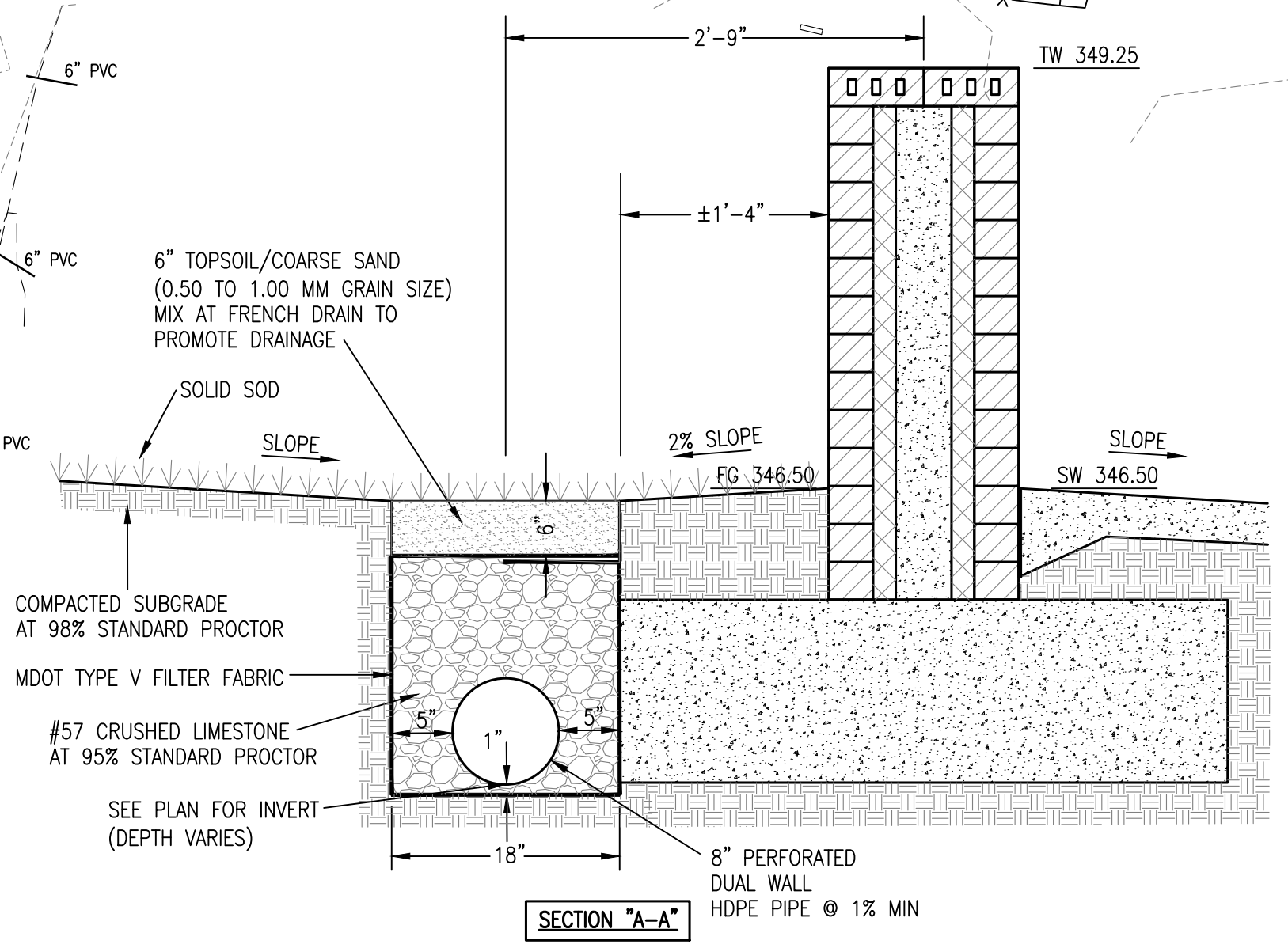


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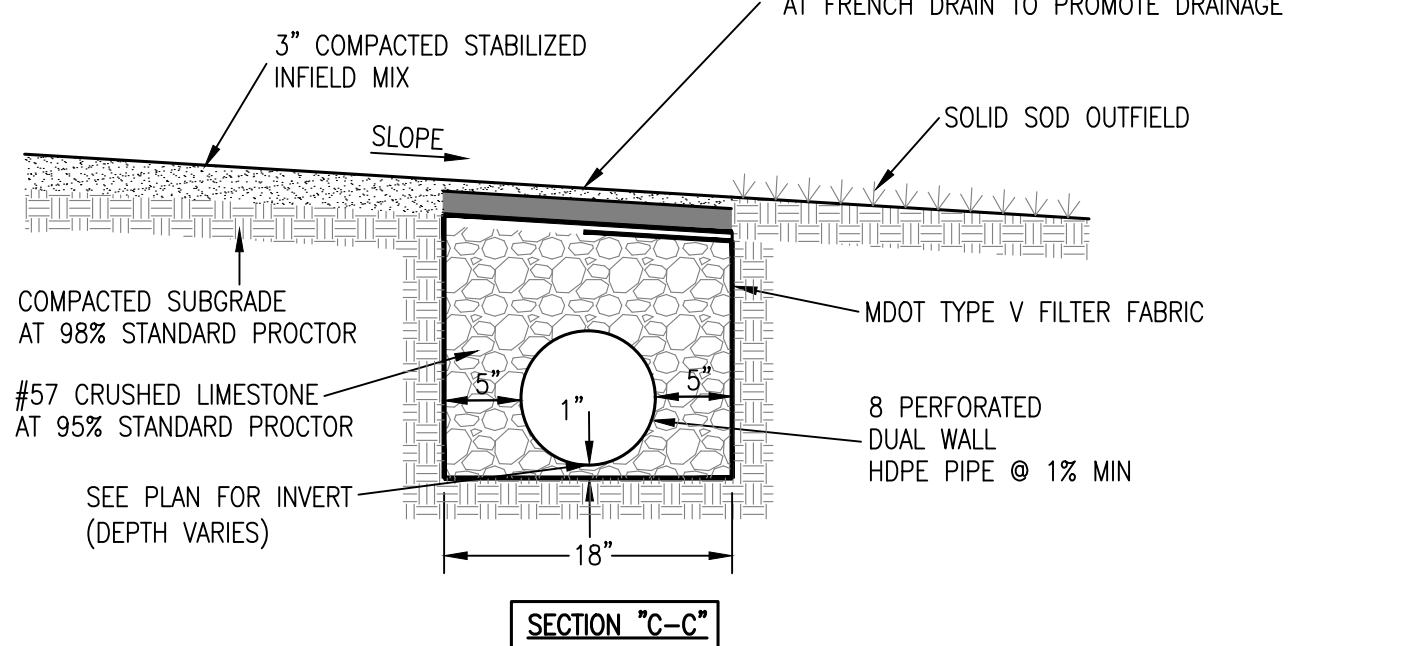
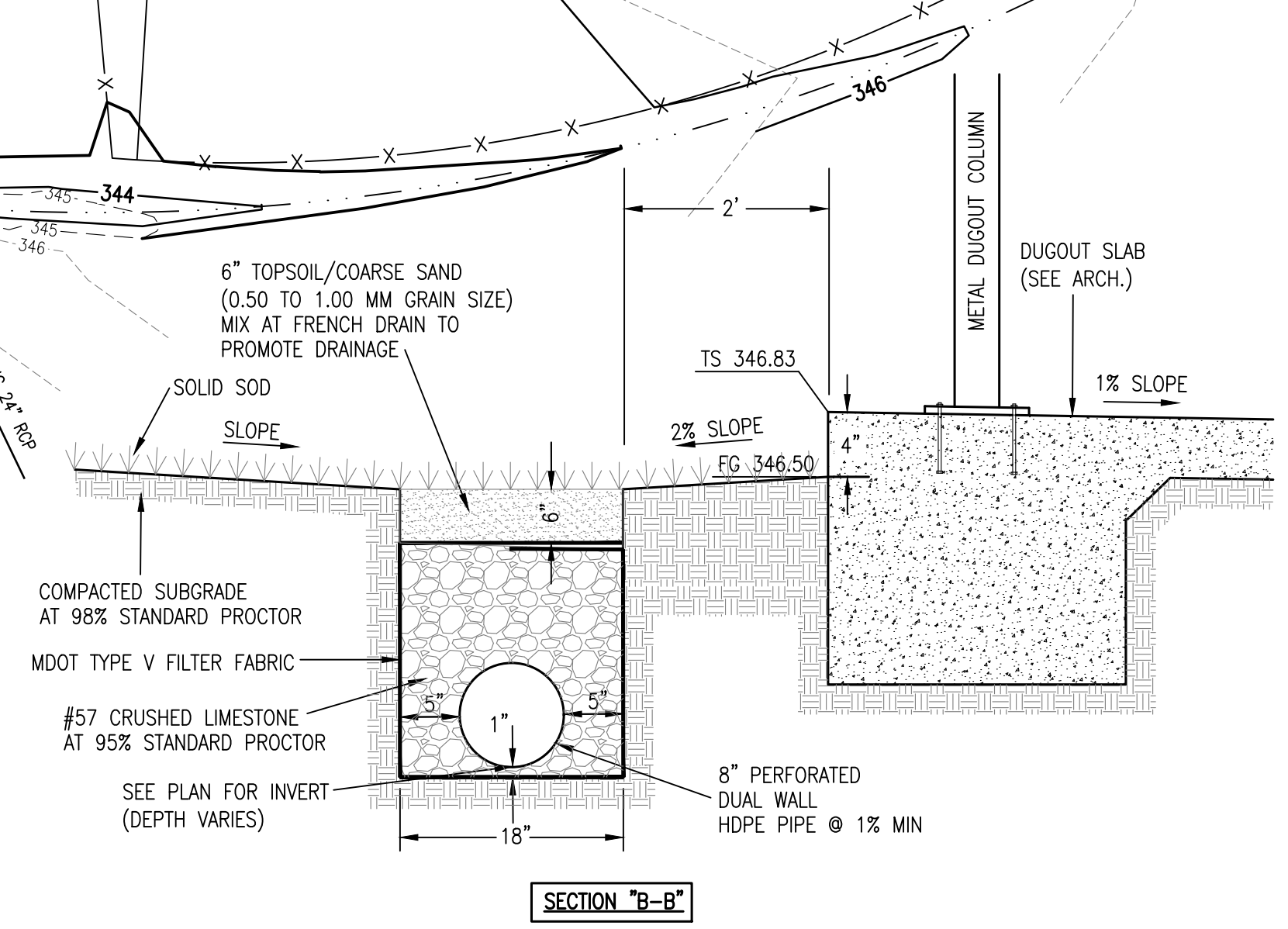
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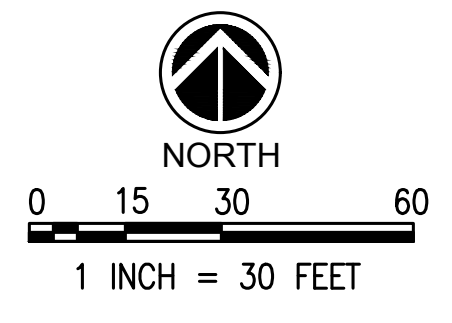
NO.	DESCRIPTION	DATE
2	Addendum #3	10-25-19

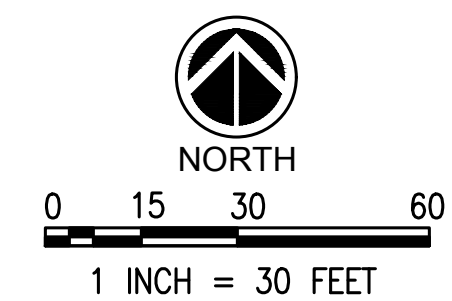
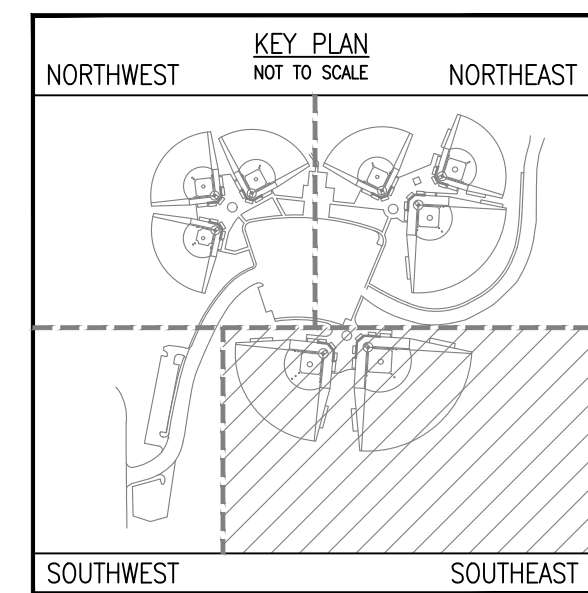
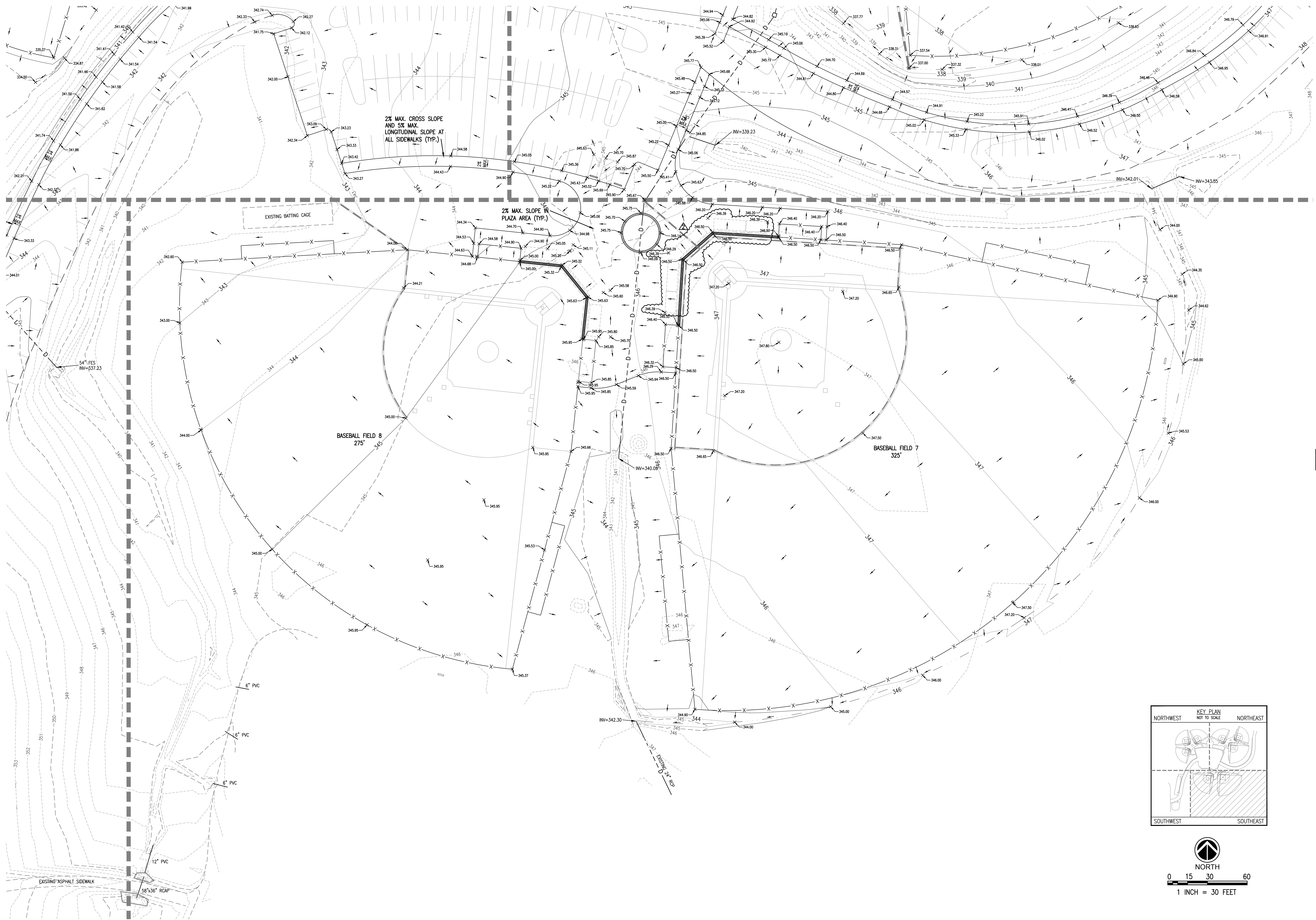


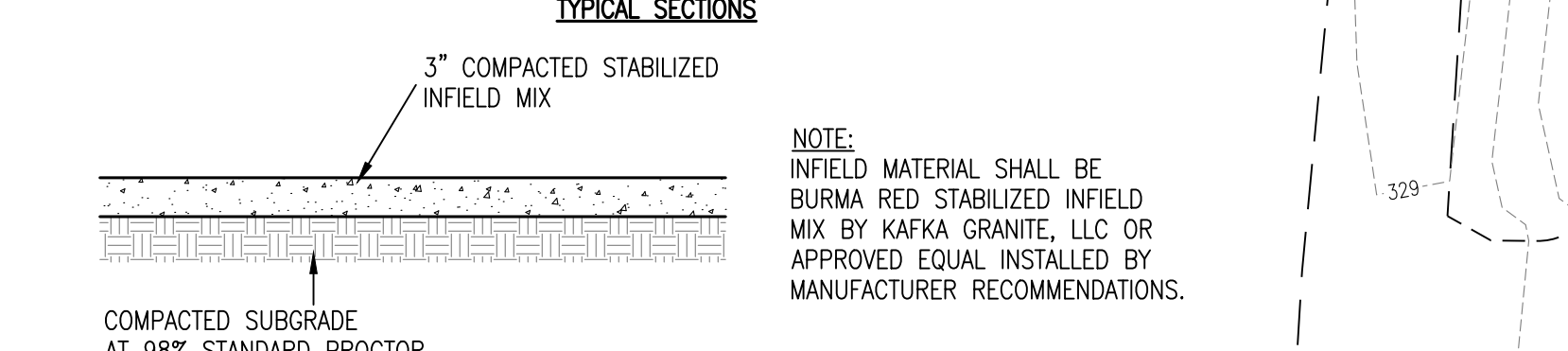
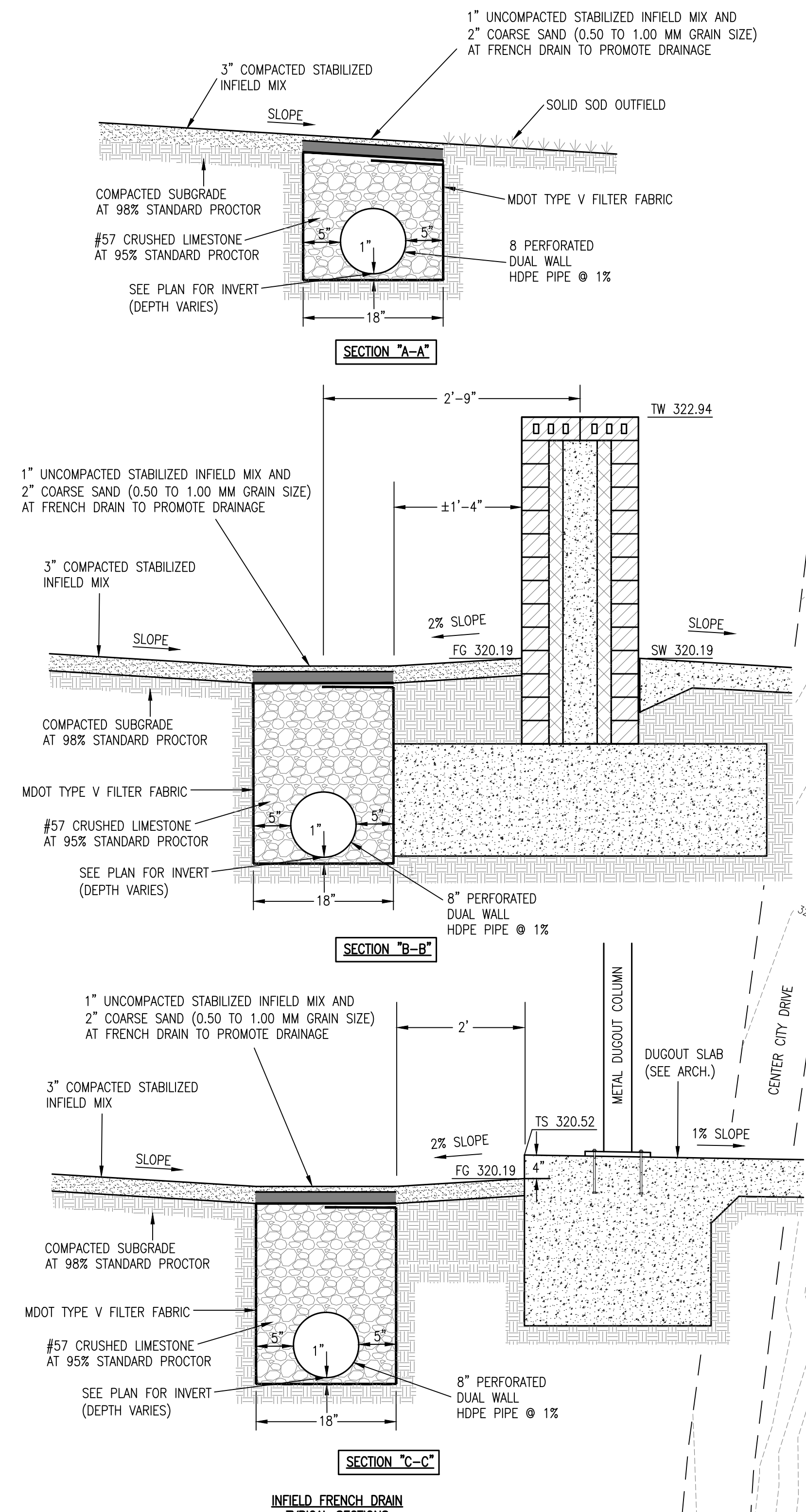
INFIELD FRENCH DRAIN
TYPICAL SECTIONS



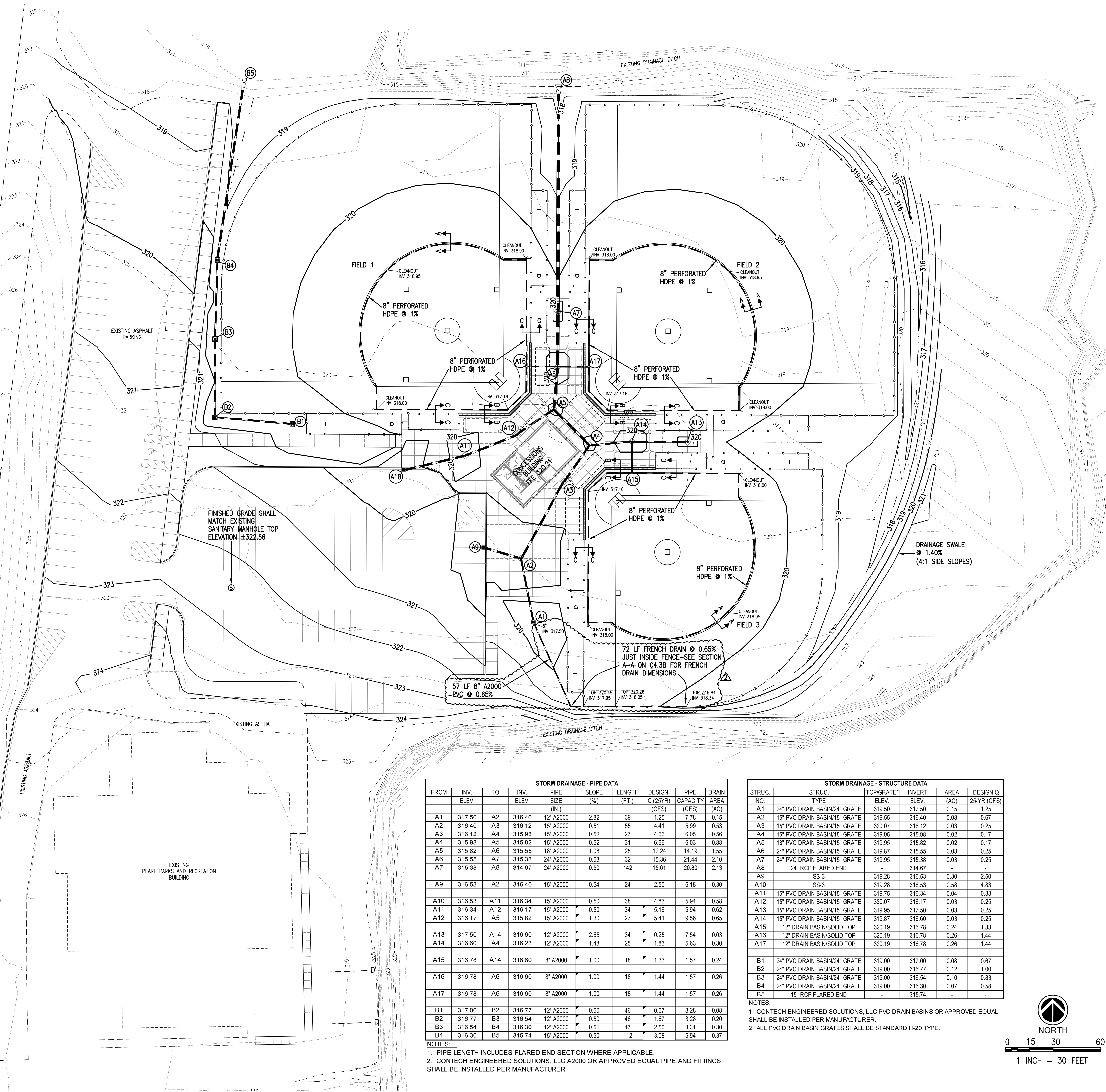
NOTE:
SEE SHEET C4.9 FOR INFIELD
GRADING AND DRAINAGE DETAILS.







- GRADING AND DRAINAGE NOTES:**
- EARTHWORK OPERATIONS SHALL BE PERFORMED PER THE RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION, PROJECT NO. 190221 PREPARED BY BURNS COOLEY DENNIS, INC. DATED MAY 30, 2019.
 - ALL AREAS SHALL BE COMPACTED PER THE RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION REPORTS PREPARED BY BURNS COOLEY DENNIS, INC (98% STANDARD PROCTOR (ASTM D-698) AND ±3% OPTIMUM MOISTURE CONTENT). ALL EFFORTS AND COSTS ASSOCIATED WITH PROCESSING AND/OR DRYING OUT OVER SATURATED SUITABLE MATERIAL IN ORDER TO ACHIEVE OPTIMUM MOISTURE AND COMPACTION SHALL BE INCLUDED IN THE UNIT PRICE FOR UNCLASSIFIED EXCAVATION, OR OTHER ITEMS. THIS SHALL BE NO ADDITIONAL COST TO THE OWNER.
 - REFER TO THE GEOTECHNICAL REPORT FOR UNDERCUTTING RECOMMENDATIONS SHOULD ANY EXPANSIVE CLAYS OR UNSUITABLE MATERIALS BE ENCOUNTERED.
 - SUBGRADES SHALL BE PROOF-ROLLED WITH A LOADED DUMP TRUCK TO DETECT ZONES OF UNSUITABLE AND/OR EXCESSIVELY WET SOILS. IF PUMPING BEGINS, COMPACTION SHALL BE STOPPED IMMEDIATELY AND RESUMED ONLY WHEN THE MATERIAL IS SUFFICIENTLY DRY THAT PUMPING DOES NOT OCCUR.
 - SYNTHETIC TURF INFIELD MATERIAL SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - SITE GRADING SHALL PROVIDE POSITIVE DRAINAGE AROUND AND AWAY FROM ALL BUILDINGS, DUGOUT AND SHADE STRUCTURES, WALLS, ETC. NO PONDING WATER SHALL BE ACCEPTABLE ON SITE.
 - SEE SHEET C1.0 FOR ADDITIONAL GRADING AND DRAINAGE NOTES.
 - SEE SHEETS C4.1S-4.4S FOR SPOT ELEVATIONS.
- NOTE:**
INFIELD MATERIAL SHALL BE BURMA RED STABILIZED INFIELD MIX BY KAFKA GRANITE, LLC OR APPROVED EQUAL INSTALLED BY MANUFACTURER RECOMMENDATIONS.



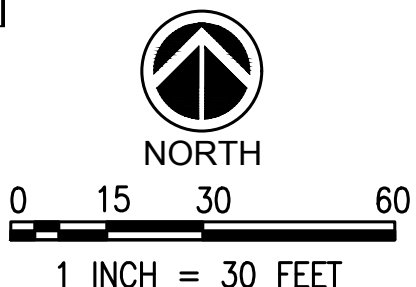
STORM DRAINAGE - PIPE DATA

FROM	INV. ELEV.	TO	INV. ELEV.	PIPE SIZE (IN.)	PIPE SLOPE (%)	LENGTH (FT.)	DESIGN Q (25YR) (CFS)	PIPE CAPACITY (CFS)	DRAIN AREA (AC)
A1	317.50	A2	316.40	12" A2000	2.82	39	1.25	7.78	0.15
A2	316.40	A3	316.12	15" A2000	0.51	55	4.41	5.99	0.53
A3	316.12	A4	315.98	15" A2000	0.52	27	4.66	6.05	0.56
A4	315.98	A5	315.82	15" A2000	0.52	31	6.66	6.03	0.88
A5	315.82	A6	315.55	18" A2000	1.08	25	12.24	14.19	1.55
A6	315.55	A7	315.38	24" A2000	0.53	32	15.36	21.44	2.10
A7	315.38	A8	314.67	24" A2000	0.50	142	15.61	20.80	2.13
A9	316.53	A2	316.40	15" A2000	0.54	24	2.50	6.18	0.30
A10	316.53	A11	316.34	15" A2000	0.50	38	4.83	5.94	0.58
A11	316.34	A12	316.17	15" A2000	0.50	34	5.16	5.94	0.62
A12	316.17	A5	315.82	15" A2000	1.30	27	5.41	9.56	0.65
A13	317.50	A14	316.60	12" A2000	2.65	34	0.25	7.54	0.03
A14	316.60	A4	316.23	12" A2000	1.48	25	1.83	5.63	0.30
A15	316.78	A14	316.60	8" A2000	1.00	18	1.33	1.57	0.24
A16	316.78	A6	316.60	8" A2000	1.00	18	1.44	1.57	0.26
A17	316.78	A6	316.60	8" A2000	1.00	18	1.44	1.57	0.26
B1	317.00	B2	316.77	12" A2000	0.50	46	0.67	3.28	0.08
B2	316.77	B3	316.54	12" A2000	0.50	46	1.67	3.28	0.20
B3	316.54	B4	316.30	12" A2000	0.51	47	2.50	3.31	0.30
B4	316.30	B5	315.74	15" A2000	0.50	112	3.08	5.94	0.37

STORM DRAINAGE - STRUCTURE DATA

STRUC. NO.	STRUC. TYPE	TOP/GRATE ELEV.	INVERT ELEV.	AREA (AC)	DESIGN Q (25-YR) (CFS)
A1	24" PVC DRAIN BASIN/24" GRATE	319.50	317.50	0.15	1.25
A2	15" PVC DRAIN BASIN/15" GRATE	319.55	316.40	0.08	0.67
A3	15" PVC DRAIN BASIN/15" GRATE	320.07	316.12	0.03	0.25
A4	15" PVC DRAIN BASIN/15" GRATE	319.95	315.98	0.02	0.17
A5	18" PVC DRAIN BASIN/15" GRATE	319.95	315.82	0.02	0.17
A6	24" PVC DRAIN BASIN/15" GRATE	319.87	315.55	0.03	0.25
A7	24" PVC DRAIN BASIN/15" GRATE	319.95	315.38	0.03	0.25
A8	24" RCP FLARED END	-	314.67	-	-
A9	SS-3	319.28	316.53	0.30	2.50
A10	SS-3	319.28	316.53	0.58	4.83
A11	15" PVC DRAIN BASIN/15" GRATE	319.75	316.34	0.04	0.33
A12	15" PVC DRAIN BASIN/15" GRATE	320.07	316.17	0.03	0.25
A13	15" PVC DRAIN BASIN/15" GRATE	319.95	317.50	0.03	0.25
A14	15" PVC DRAIN BASIN/15" GRATE	319.87	316.60	0.03	0.25
A15	12" DRAIN BASIN/SOLID TOP	320.19	316.78	0.24	1.33
A16	12" DRAIN BASIN/SOLID TOP	320.19	316.78	0.26	1.44
A17	12" DRAIN BASIN/SOLID TOP	320.19	316.78	0.26	1.44
B1	24" PVC DRAIN BASIN/24" GRATE	319.00	317.00	0.08	0.67
B2	24" PVC DRAIN BASIN/24" GRATE	319.00	316.77	0.12	1.00
B3	24" PVC DRAIN BASIN/24" GRATE	319.00	316.54	0.10	0.83
B4	24" PVC DRAIN BASIN/24" GRATE	319.00	316.30	0.07	0.58
B5	15" RCP FLARED END	-	315.74	-	-

- NOTES:**
- CONTECH ENGINEERED SOLUTIONS, LLC PVC DRAIN BASINS OR APPROVED EQUAL SHALL BE INSTALLED PER MANUFACTURER.
 - ALL PVC DRAIN BASIN GRATES SHALL BE STANDARD H-20 TYPE.
- 1. PIPE LENGTH INCLUDES FLARED END SECTION WHERE APPLICABLE.**
2. CONTECH ENGINEERED SOLUTIONS, LLC A2000 OR APPROVED EQUAL PIPE AND FITTINGS SHALL BE INSTALLED PER MANUFACTURER.





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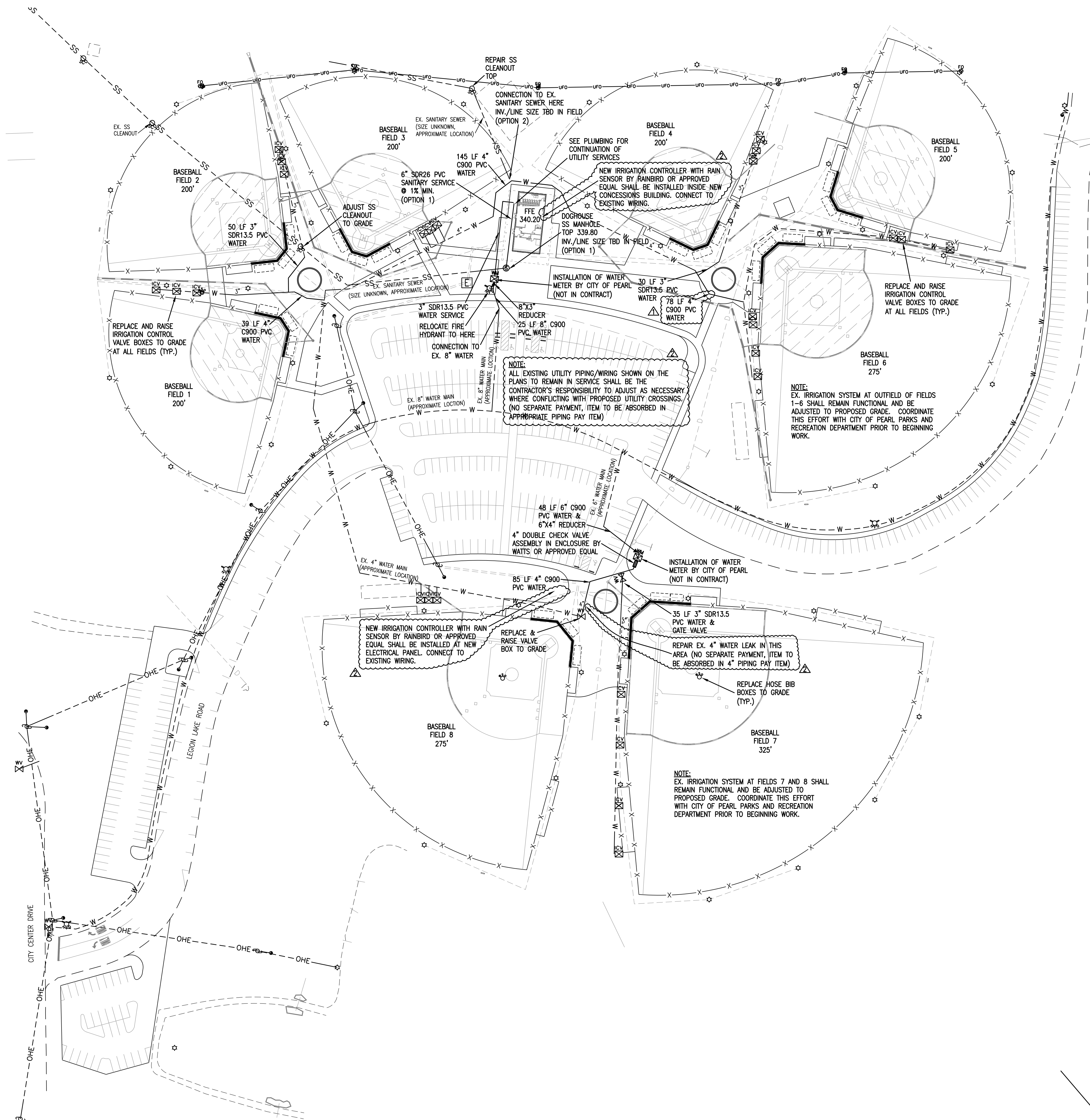
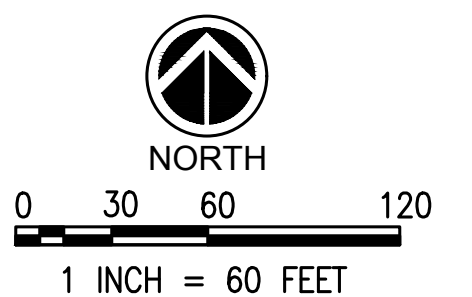
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1	Addendum #2	10-17-19
2	Addendum #3	10-25-19

DEMOLITION NOTES:

- THE EXISTING UNDERGROUND ELECTRICAL CONDUIT SHOWN ON PLANS REFLECTS UNDERGROUND ELECTRICAL CABLE AS-BUILT DRAWINGS DATED 1995 AND LOCATION IS APPROXIMATE ONLY.
- THE EXISTING WATER MAINS SHOWN ON PLANS REFLECTS RECREATIONAL PROGRAM IMPROVEMENT PLANS DATED 1995 AND LOCATION IS APPROXIMATE ONLY.



NOTE:
ALL EXISTING UTILITY PIPING/WIRING SHOWN ON THE PLANS TO REMAIN IN SERVICE SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADJUST AS NECESSARY WHERE CONFLICTING WITH PROPOSED UTILITY CROSSINGS (NO SEPARATE PAYMENT, ITEM TO BE ABSORBED IN APPROPRIATE PIPING PAY ITEM)

NOTE:
EX. IRRIGATION SYSTEM AT OUTFIELD OF FIELDS 1-6 SHALL REMAIN FUNCTIONAL AND BE ADJUSTED TO PROPOSED GRADE. COORDINATE THIS EFFORT WITH CITY OF PEARL PARKS AND RECREATION DEPARTMENT PRIOR TO BEGINNING WORK.

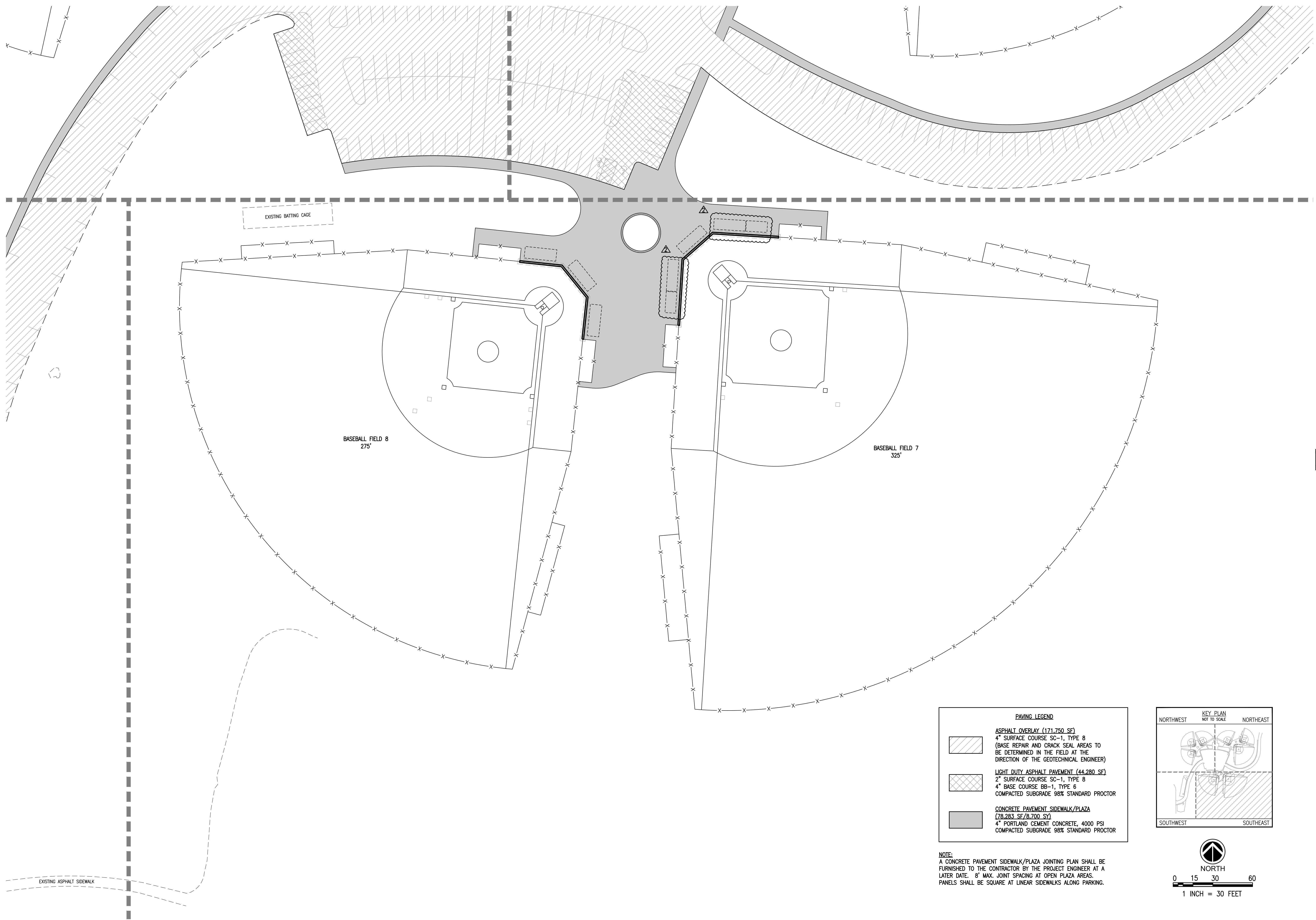
NOTE:
EX. IRRIGATION SYSTEM AT FIELDS 7 AND 8 SHALL REMAIN FUNCTIONAL AND BE ADJUSTED TO PROPOSED GRADE. COORDINATE THIS EFFORT WITH CITY OF PEARL PARKS AND RECREATION DEPARTMENT PRIOR TO BEGINNING WORK.



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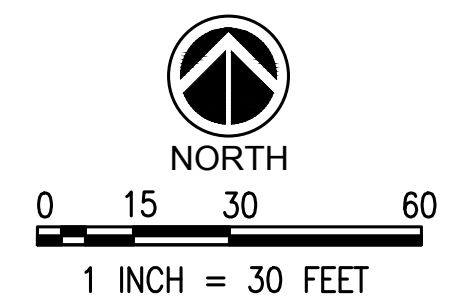
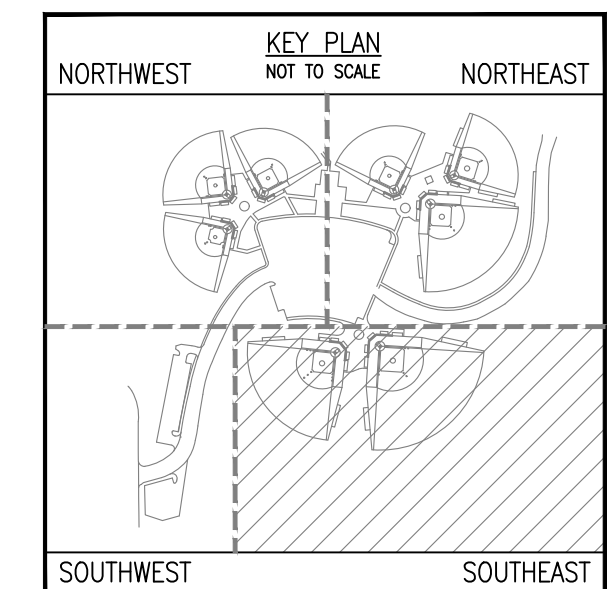
REVISIONS		
NO.	DESCRIPTION	DATE
2	Addendum #3	10-25-19



PAVING LEGEND

	ASPHALT OVERLAY (171,750 SF) 4" SURFACE COURSE SC-1, TYPE 8 (BASE REPAIR AND CRACK SEAL AREAS TO BE DETERMINED IN THE FIELD AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER)
	LIGHT DUTY ASPHALT PAVEMENT (44,280 SF) 2" SURFACE COURSE SC-1, TYPE 8 4" BASE COURSE BB-1, TYPE 6 COMPACTED SUBGRADE 98% STANDARD PROCTOR
	CONCRETE PAVEMENT SIDEWALK/PLAZA (78,283 SF/8,700 SY) 4" PORTLAND CEMENT CONCRETE, 4000 PSI COMPACTED SUBGRADE 98% STANDARD PROCTOR

NOTE:
A CONCRETE PAVEMENT SIDEWALK/PLAZA JOINTING PLAN SHALL BE FURNISHED TO THE CONTRACTOR BY THE PROJECT ENGINEER AT A LATER DATE. 8' MAX. JOINT SPACING AT OPEN PLAZA AREAS. PANELS SHALL BE SQUARE AT LINEAR SIDEWALKS ALONG PARKING.

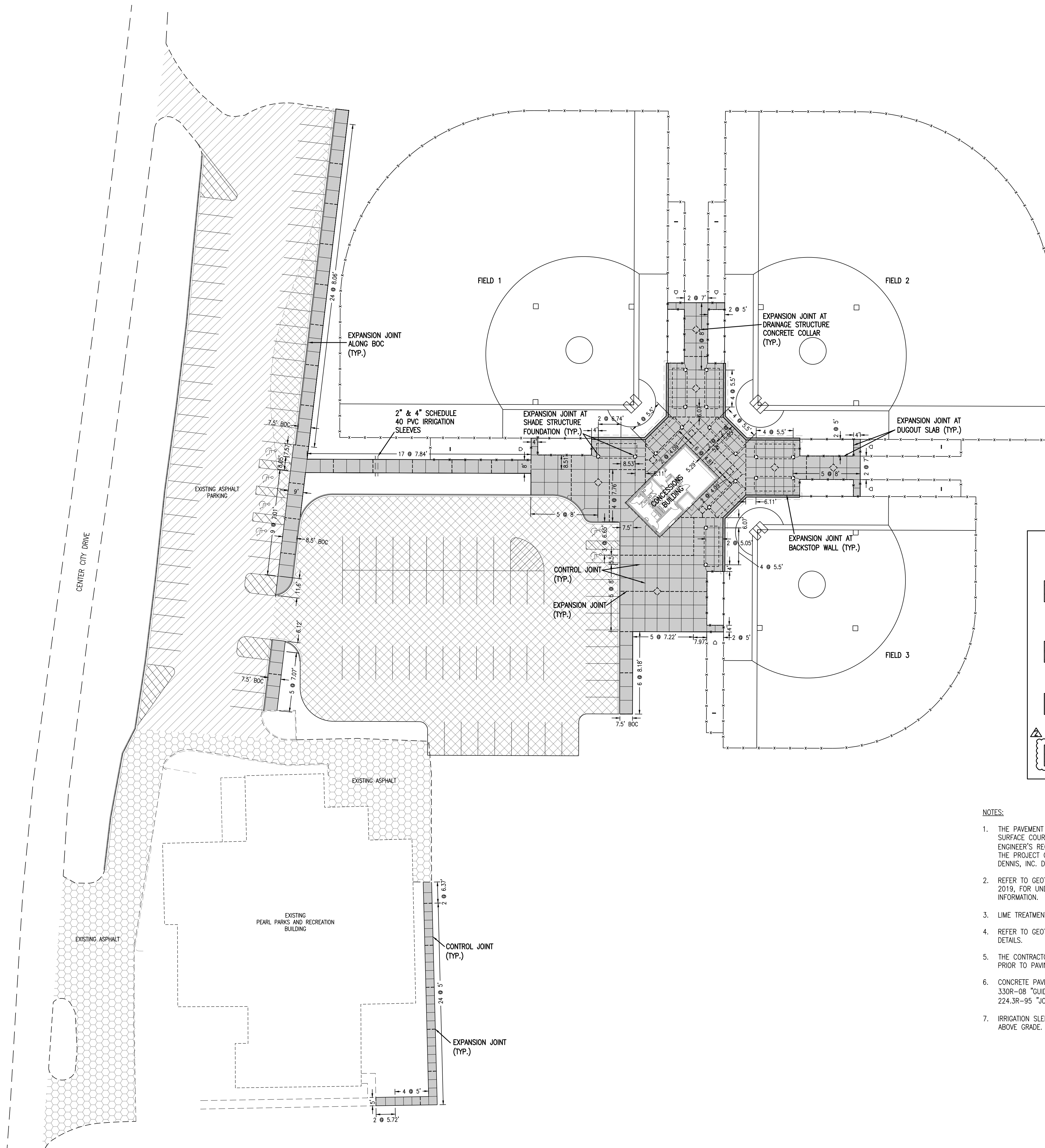




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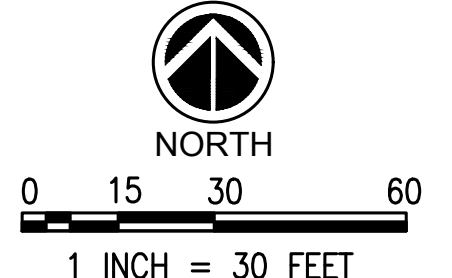


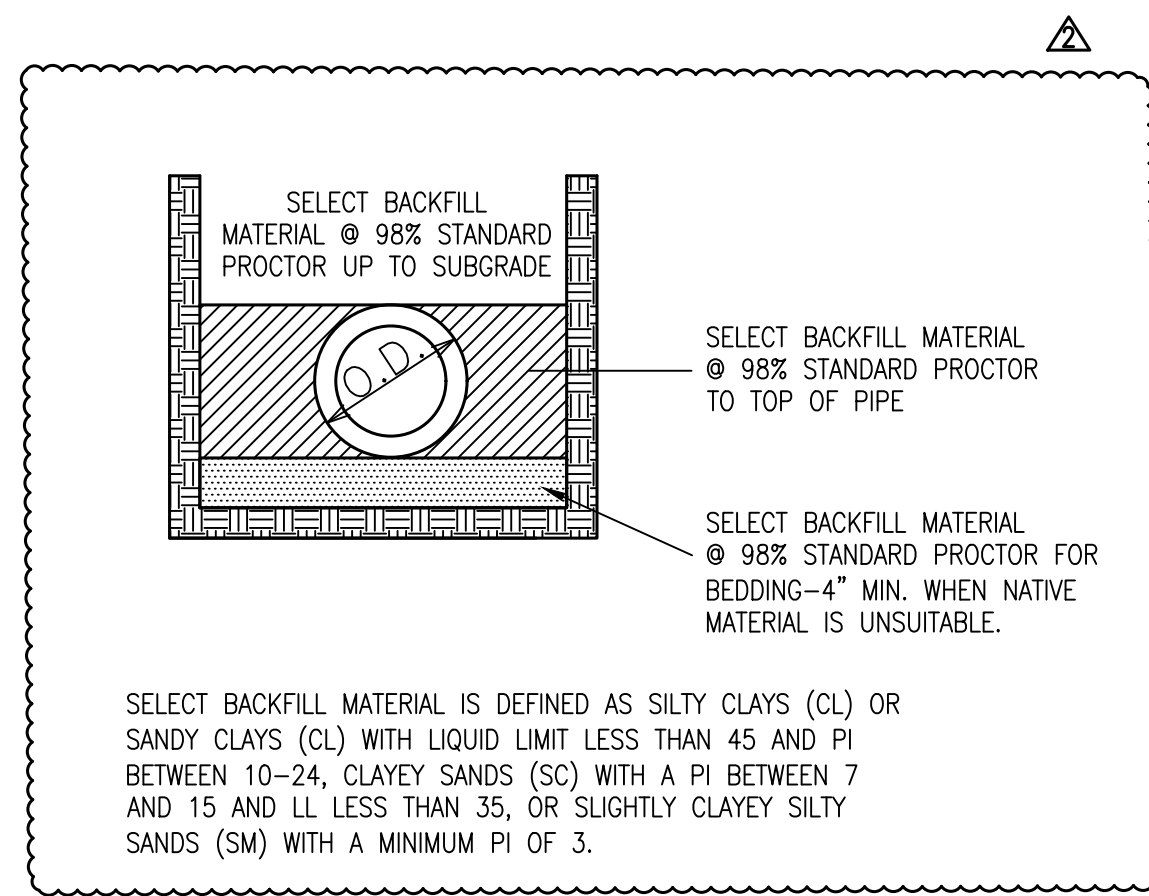
PAVING LEGEND

	ASPHALT OVERLAY (25,635 SF) 2" SURFACE COURSE SC-1, TYPE 8 (BASE REPAIR AND CRACK SEAL AREAS TO BE DETERMINED IN THE FIELD AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER)
	LIGHT DUTY ASPHALT PAVEMENT (29,400 SF) 2" SURFACE COURSE SC-1, TYPE 8 3" BASE COURSE BB-1, TYPE 6 12" LIME TREATED SUBGRADE, 6% BY DRY UNIT WT., CLASS C 98% STANDARD PROCTOR
	CONCRETE PAVEMENT SIDEWALK/PLAZA (16,360 SF/1,818 SY) 4" PORTLAND CEMENT CONCRETE, 4000 PSI COMPACTED SUBGRADE 98% STANDARD PROCTOR
	ADD-ALTERNATE #1 (13,460 SF) REMOVE AND REPLACE THE EXISTING ASPHALT PAVEMENT WITH LIGHT DUTY PAVEMENT SECTION PER THE GEOTECHNICAL RECOMMENDATIONS.

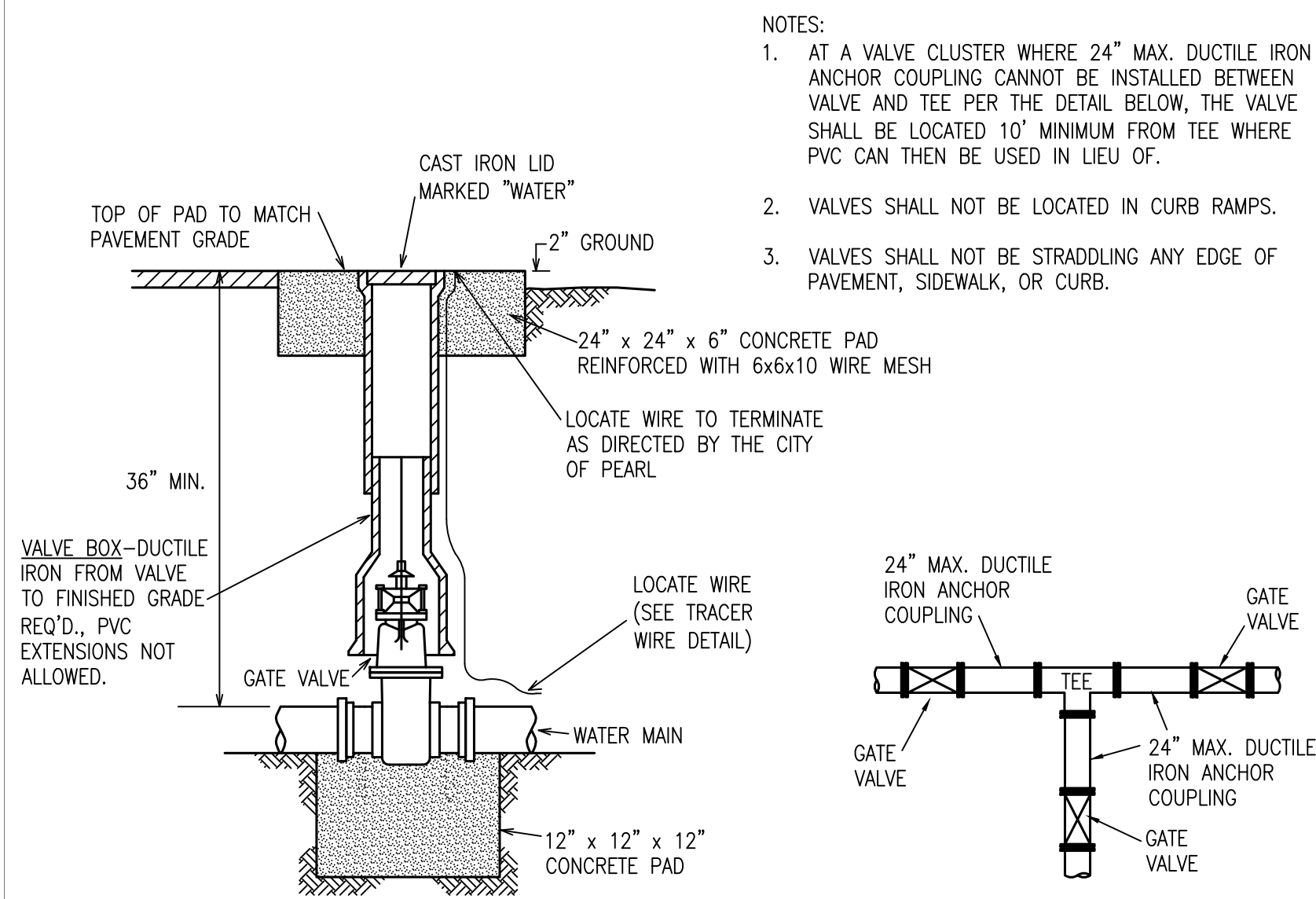
NOTES:

1. THE PAVEMENT SECTIONS SHOWN ON THIS PLAN ARE INTENDED TO SERVE AS A REFERENCE. SURFACE COURSE, BASE COURSE, AND SUBGRADE SHALL BE PREPARED PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. IF ANY DISCREPANCIES ARE FOUND IN PAVING DETAILS, REFER TO THE PROJECT GEOTECHNICAL INVESTIGATION REPORT NO. 190221 PREPARED BY BURNS COOLEY DENNIS, INC. DATED MAY 30, 2019.
2. REFER TO GEOTECHNICAL REPORT NO. 190221 BY BURNS COOLEY DENNIS, INC., DATED MAY 30, 2019, FOR UNDERCUT DEPTH, EARTHWORK CONSTRUCTION, AND SUBGRADE PREPARATION INFORMATION.
3. LIME TREATMENT SHALL EXTEND 2' BEYOND EDGE OF PAVEMENT AND/OR BACK OF CURB.
4. REFER TO GEOTECHNICAL REPORT FOR ASPHALT OVERLAY, BASE REPAIR, AND CRACK SEALING DETAILS.
5. THE CONTRACTOR SHALL ENSURE THAT ALL SLEEVES FOR UNDERGROUND UTILITIES ARE INSTALLED PRIOR TO PAVING.
6. CONCRETE PAVEMENT CONSTRUCTION & JOINT LAYOUT SHALL CONFORM TO THE LATEST ACI 330R-08 "GUIDE FOR THE DESIGN AND CONSTRUCTION OF CONCRETE PARKING LOTS" AND ACI 224.3R-95 "JOINTS IN CONCRETE CONSTRUCTION".
7. IRRIGATION SLEEVES SHALL BE INSTALLED 24" BELOW GRADE, CAPPED ON EACH END, AND MARKED ABOVE GRADE.

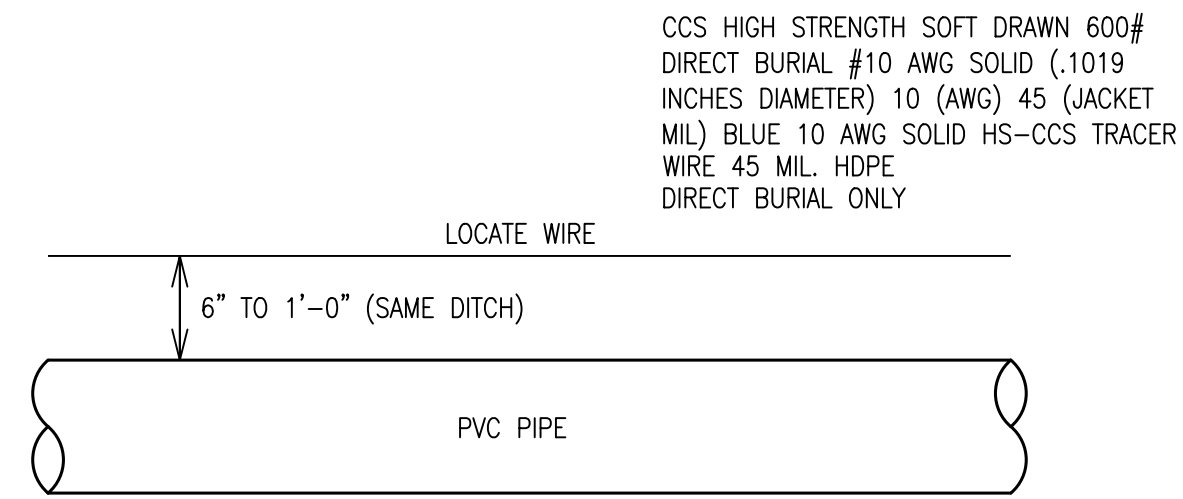




1 BEDDING / BACKFILL-PVC WATER
SCALE: NOT TO SCALE



2 GATE VALVE
SCALE: NOT TO SCALE



3 TRACER WIRE DETAIL
SCALE: NOT TO SCALE

BEARING AREA IN SQ. FT.

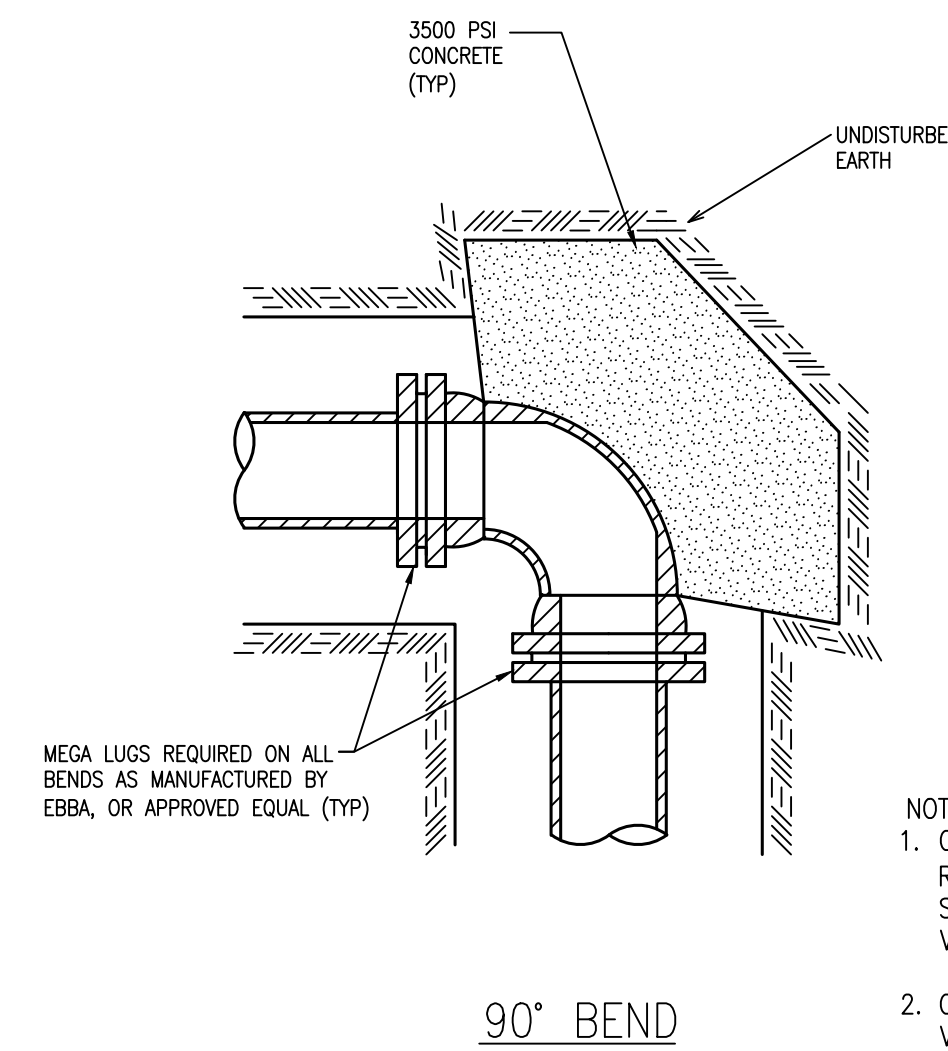
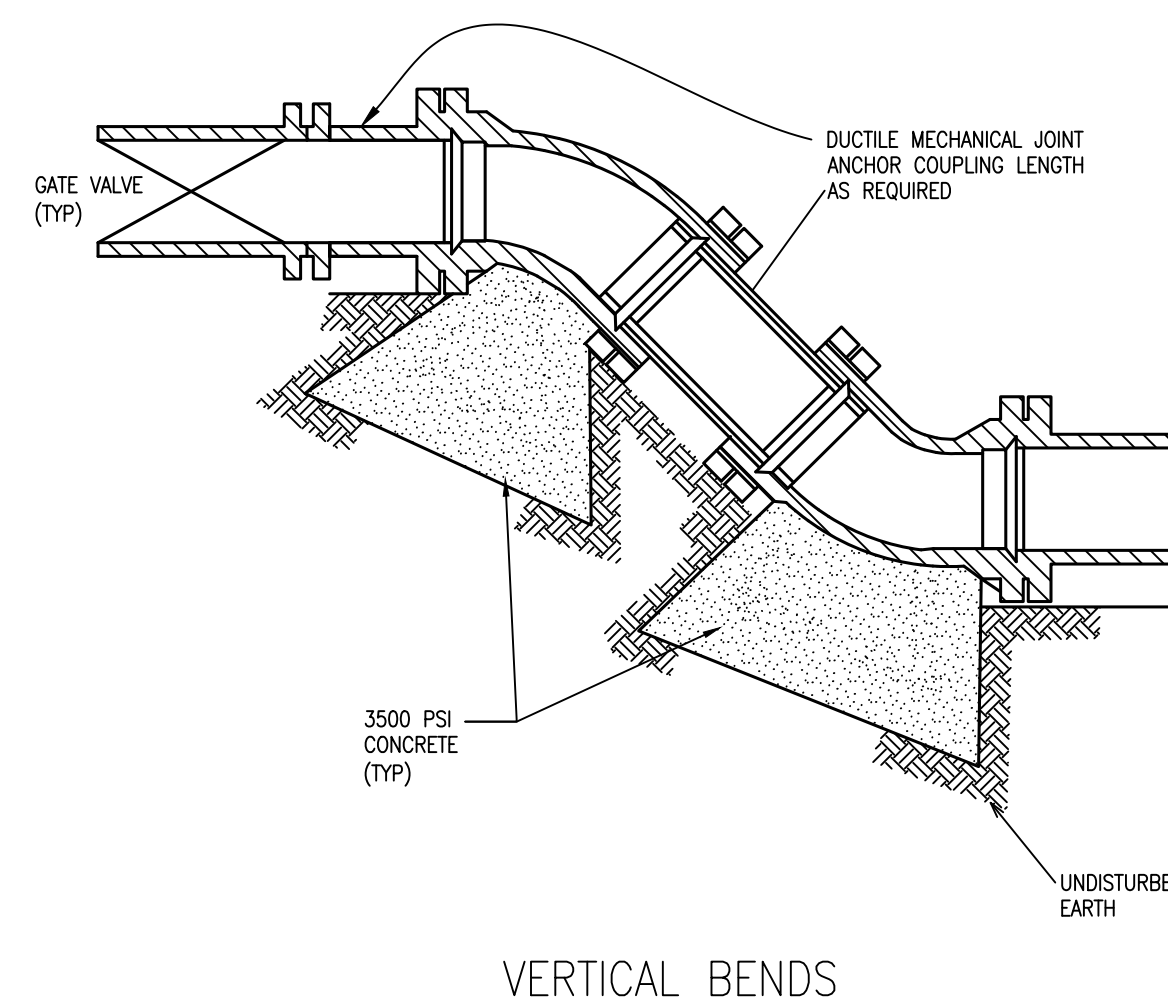
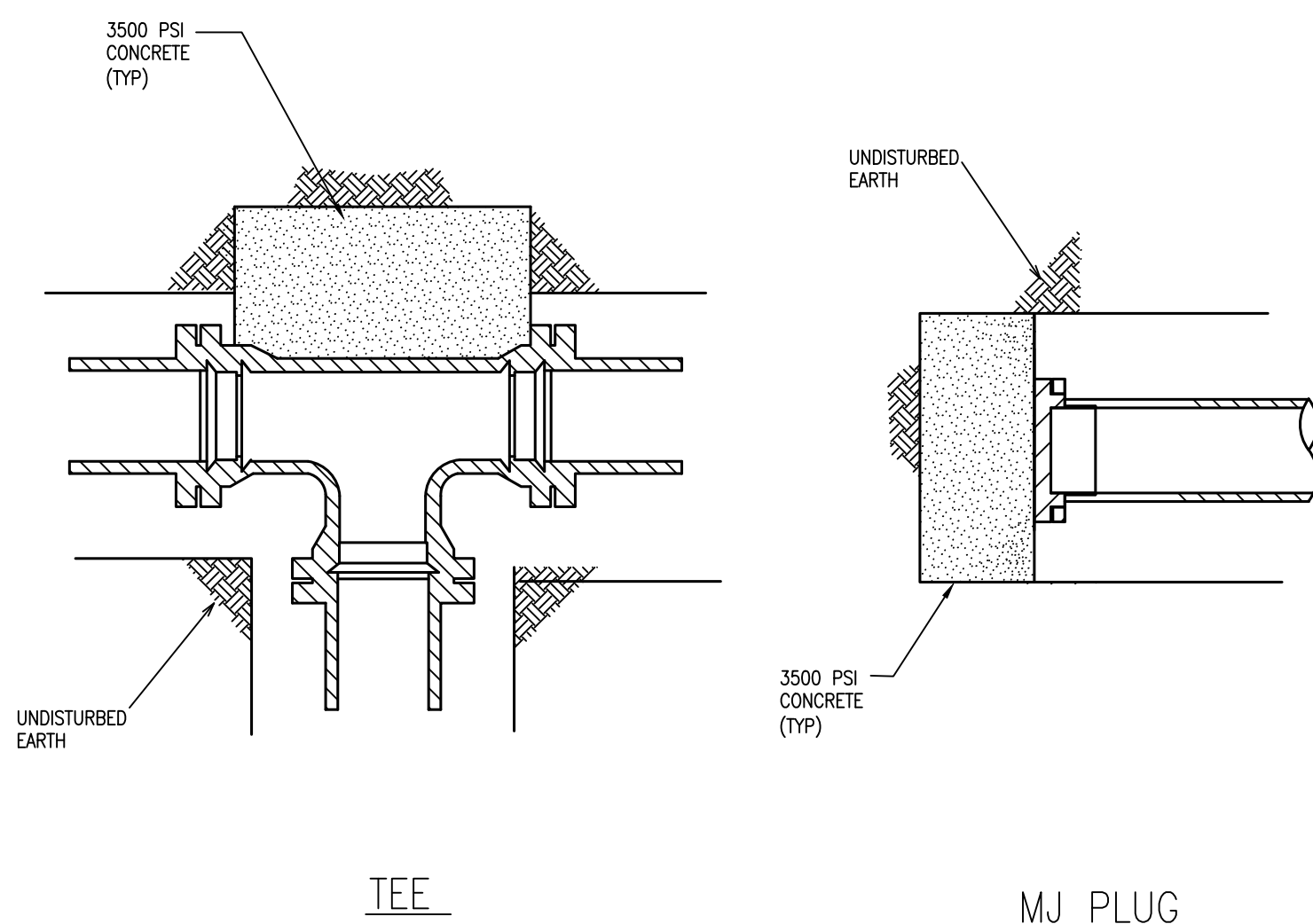
NOMINAL PIPE DIAMETER (IN)	DEAD-END OR TEE	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
4	2.0	2.0	2.0	2.0	2.0
6	2.0	2.0	2.0	2.0	2.0
8	3.0	3.0	2.0	2.0	2.0
12	5.0	5.0	4.0	3.0	3.0
16	8.0	12.0	6.0	4.0	4.0

4	6.0 (.22)	4.0 (.15)	4.0 (.15)
6	14.0 (.52)	6.0 (.22)	4.0 (.15)
8	27.0 (1.0)	9.0 (.33)	6.0 (.22)
12	68.0 (2.5)	22.0 (.80)	9.0 (.33)
16	90.0 (3.33)	52.0 (1.9)	18.0 (.67)

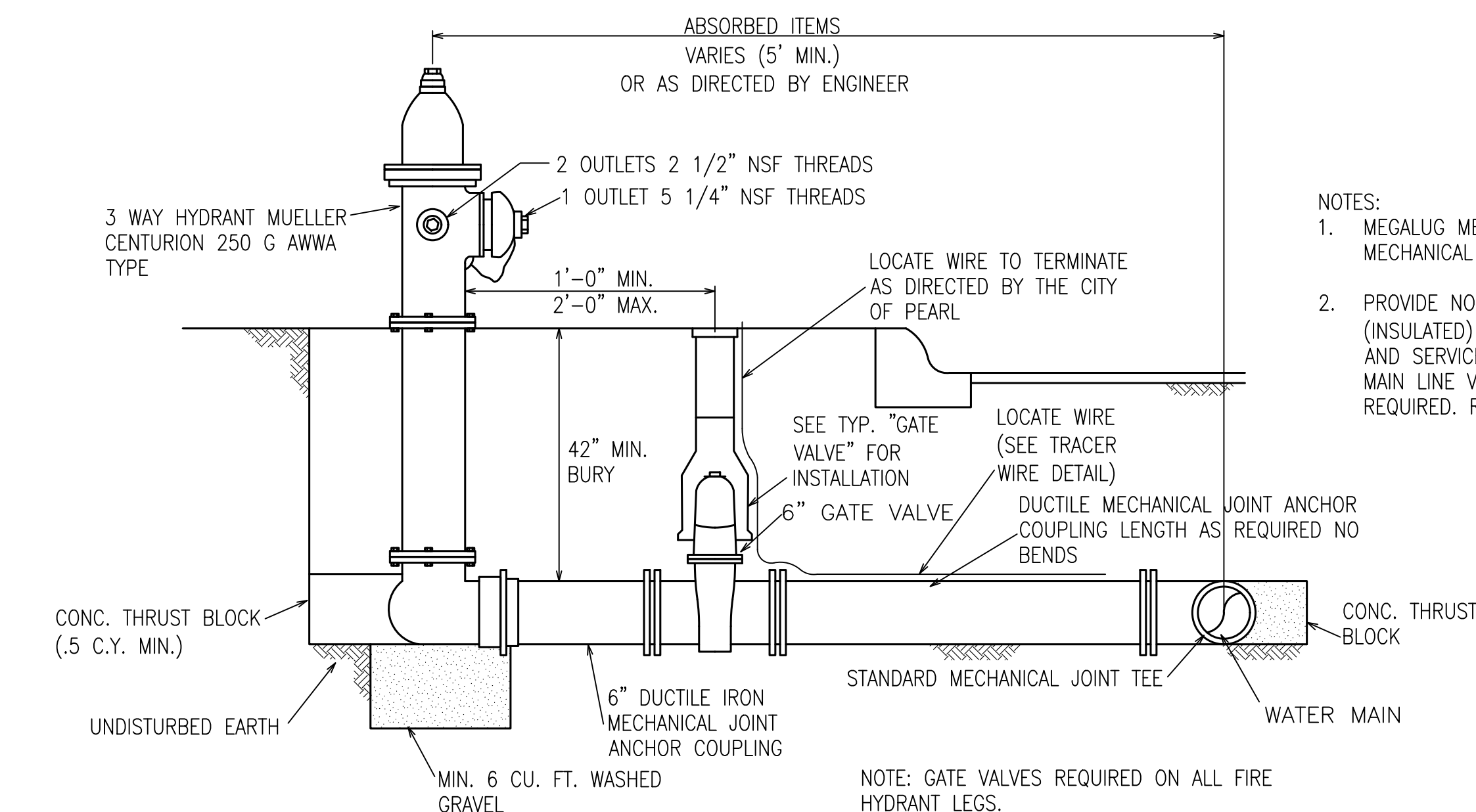
VOLUME OF BLOCKS INCLUDING SOIL LOAD CU. FT. (CU. YDS.)

NOTE: MEGA LUGS AS MANUFACTURED BY EBBA, OR APPROVED EQUAL, REQUIRED AT ALL LOCATIONS WITH THRUST BLOCKING

4 TYPICAL BLOCKING ON WATER MAIN
SCALE: NOT TO SCALE



NOTES:
1. COMPENSATION FOR CONCRETE THRUST BLOCKING & RESTRAINED JOINTS (MEGALUGS OR APPROVED EQUAL) SHALL BE INCLUDED IN THE UNIT PRICE BID FOR VALVES, FIRE HYDRANTS AND FITTINGS.
2. COMPENSATION FOR ANCHOR COUPLINGS REQUIRED ON VALVES, FIRE HYDRANTS, & FITTING CONNECTIONS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR VALVES, FIRE HYDRANTS AND FITTINGS.



NOTES:
1. MEGALUG MECHANICAL JOINT RESTRAINTS ON ALL MECHANICAL JOINTS.
2. PROVIDE NO. 10 SOLID COPPER TRACER WIRE (INSULATED) ON WATER MAINS, FIRE HYDRANT LEGS, AND SERVICES. STUB UP AT ALL FIRE HYDRANTS, MAIN LINE VALVES, AND TEST STATIONS AS REQUIRED. REFER TO DETAIL 4 ON THIS SHEET.

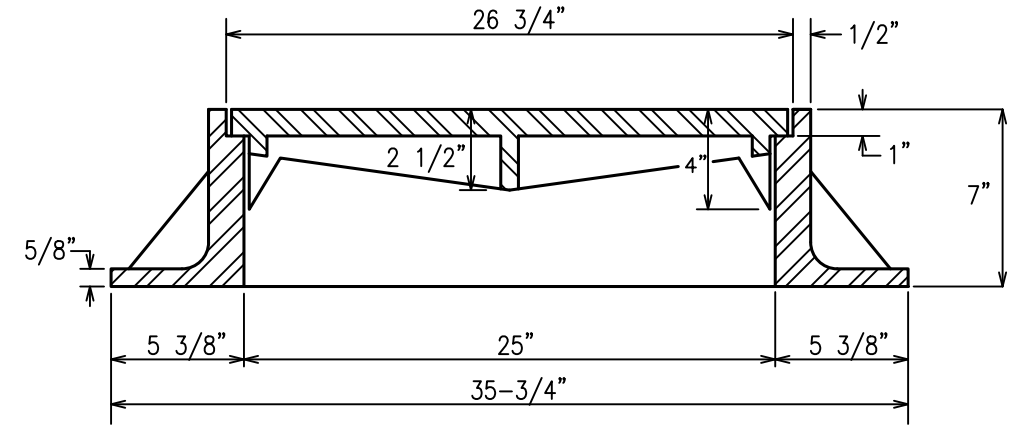
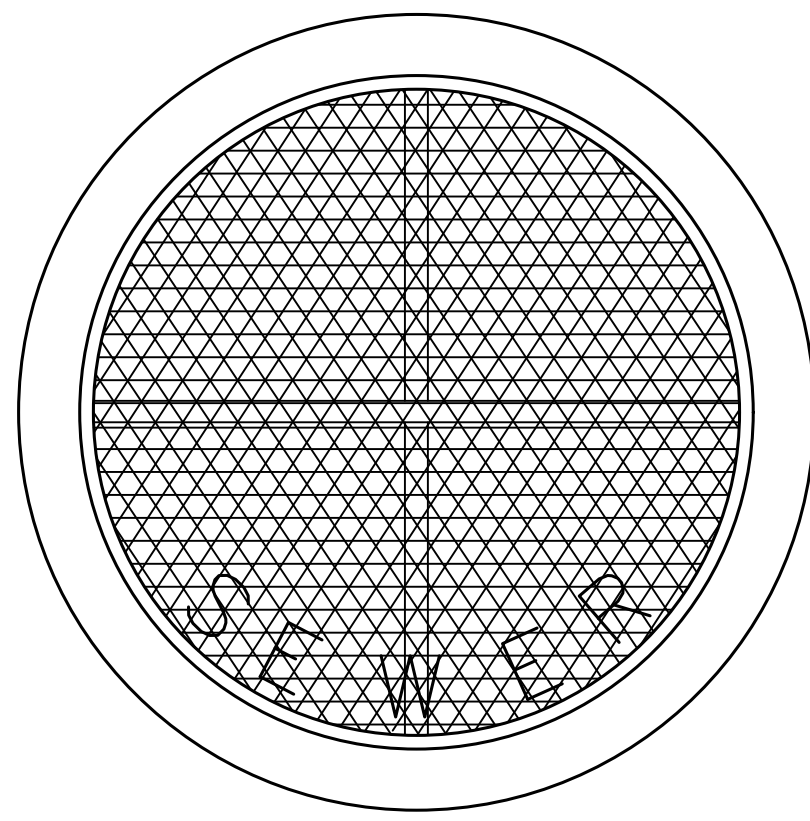
5 FIRE HYDRANT ASSEMBLY
SCALE: NOT TO SCALE

10.09.2019

CONSTRUCTION DOCUMENTS
WBA # 3518

NO.	DESCRIPTION	DATE
2	Addendum #3	10-25-19

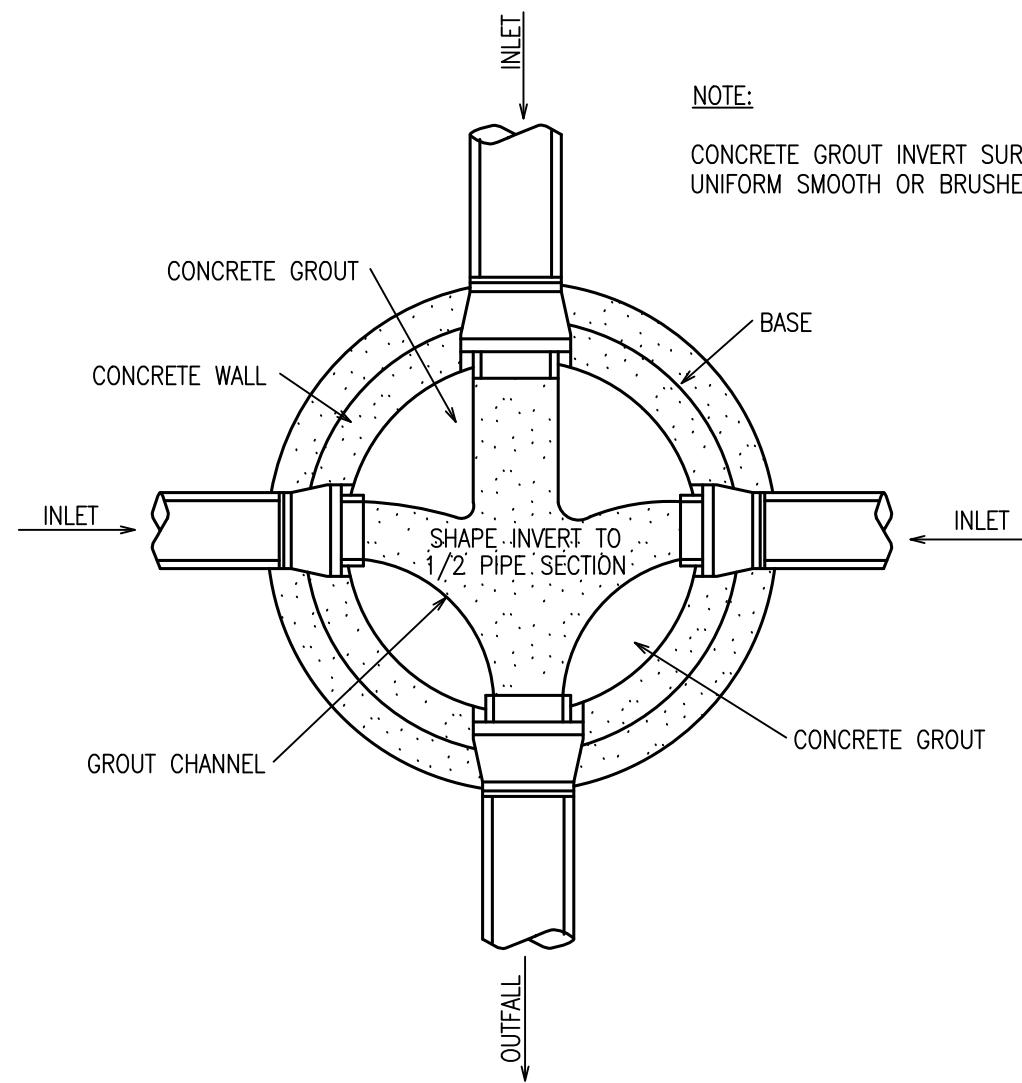
NOTE:
MANHOLE RING & COVER TO BE HEAVY DUTY
DEWS FOUNDRY DF - 25 (7) OR APPROVED EQUAL.



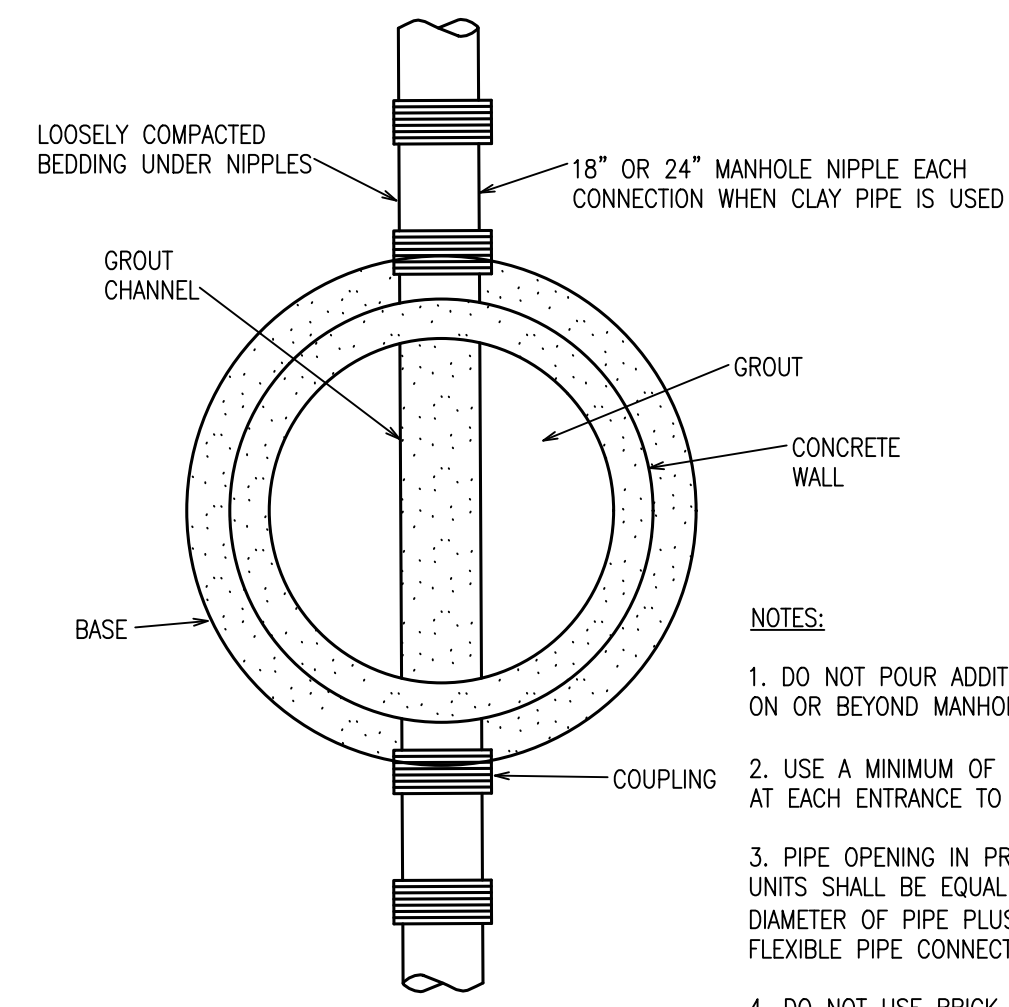
- NOTES:
1. MANHOLE TOPS SHALL NOT BE LOCATED IN CURB RAMPS.
 2. MANHOLE TOPS SHALL NOT BE STRADDLING ANY EDGE OF PAVEMENT, SIDEWALK, OR CURB.
 3. MANHOLE COVERS SHALL BE WATERTIGHT AND BOLTED DOWN.

1 MANHOLE CASTING DETAILS
SCALE: NOT TO SCALE

NOTE:
CONCRETE GROUT INVERT SURFACES TO HAVE
UNIFORM SMOOTH OR BRUSHED FINISH.

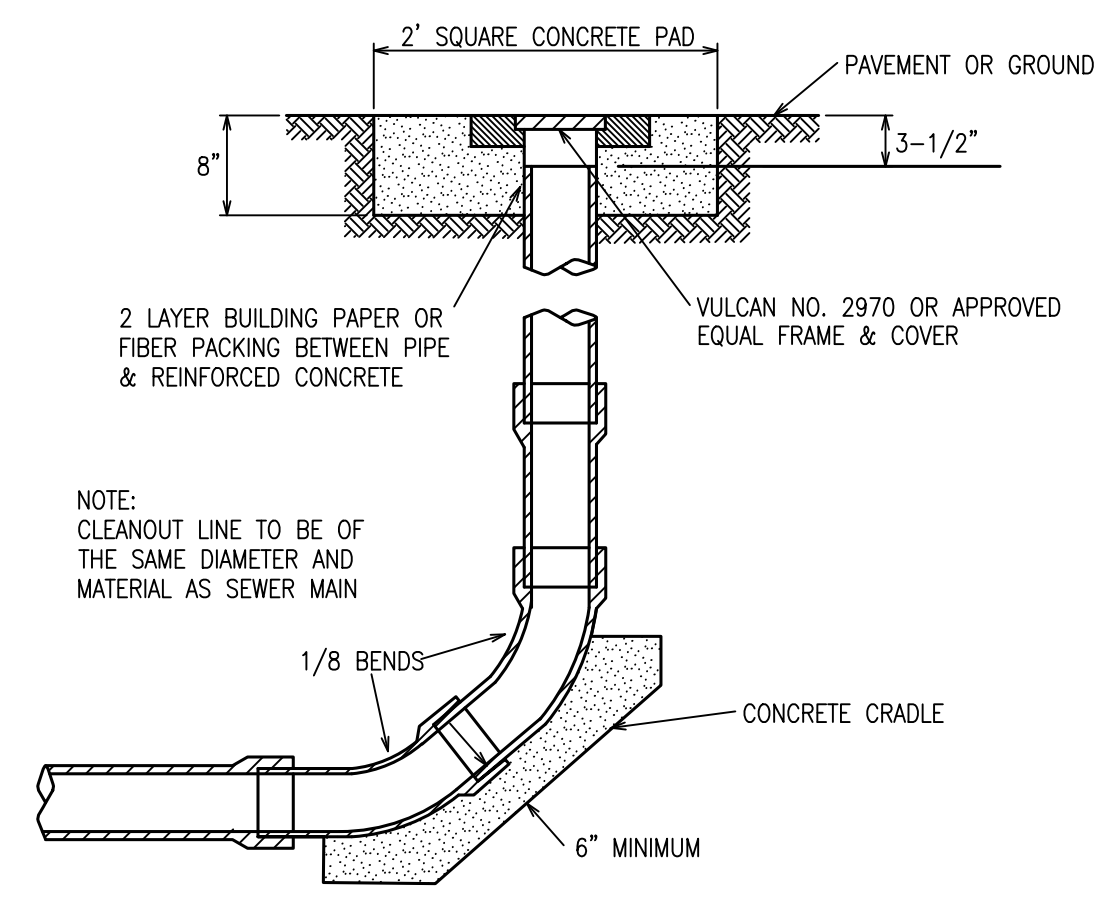


4 MANHOLE FLOW CHANNELS DETAIL
SCALE: NOT TO SCALE



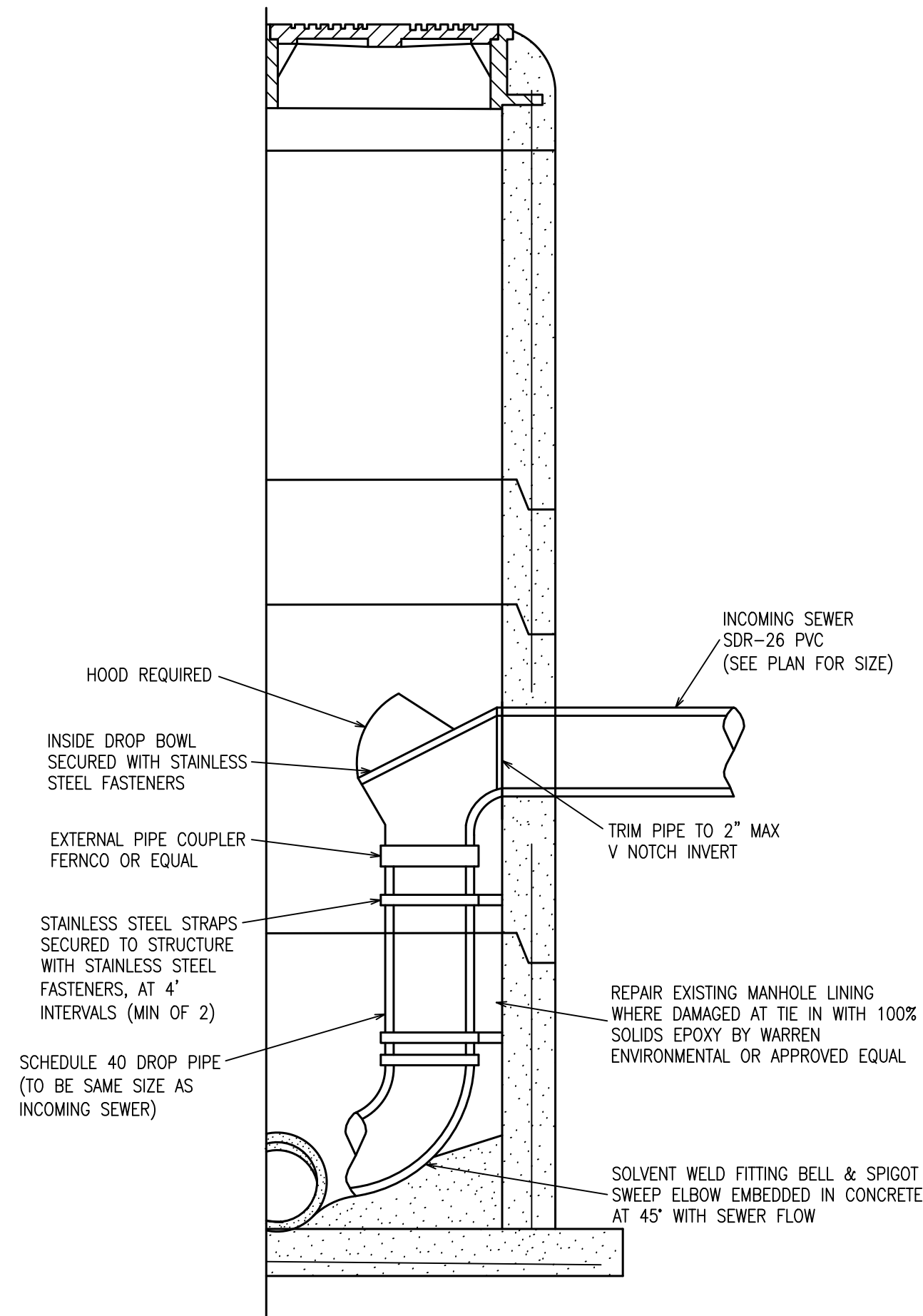
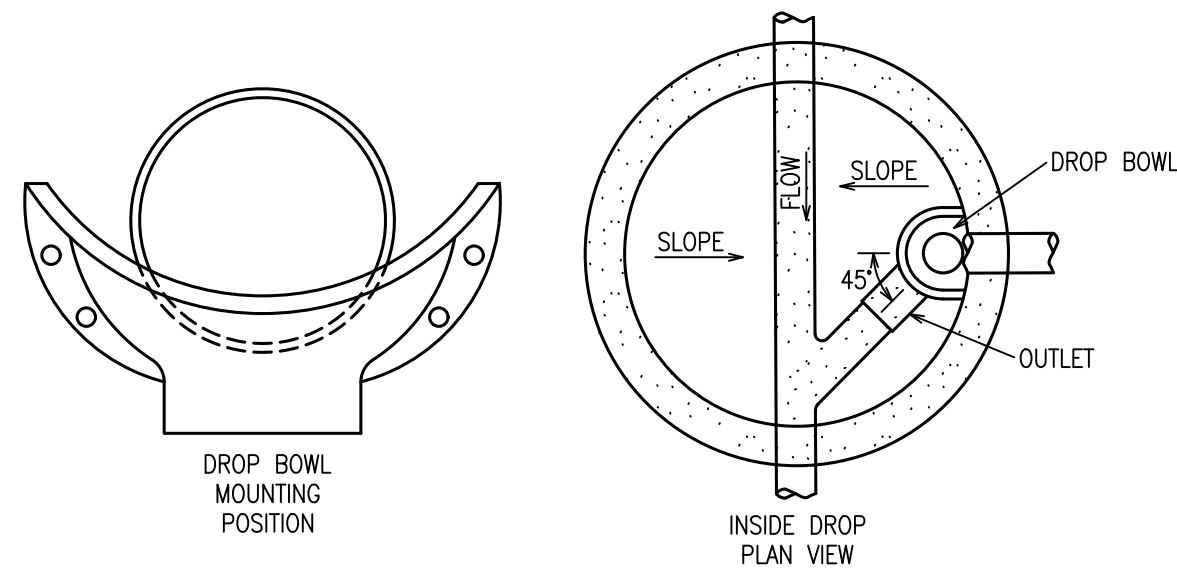
- NOTES:
1. DO NOT POUR ADDITIONAL CONCRETE ON OR BEYOND MANHOLE NIPPLE.
 2. USE A MINIMUM OF ONE (1) NIPPLE AT EACH ENTRANCE TO MANHOLE.
 3. PIPE OPENING IN PRE-CAST CONCRETE UNITS SHALL BE EQUAL TO OUTSIDE DIAMETER OF PIPE, PLUS 6" MAXIMUM, IF FLEXIBLE PIPE CONNECTORS ARE NOT USED.
 4. DO NOT USE BRICK, BLOCK OR TIMBER TO SUPPORT PIPE OR NIPPLES OUTSIDE OF MANHOLE.

5 TYPICAL PIPE CONNECTION TO MANHOLE
SCALE: NOT TO SCALE



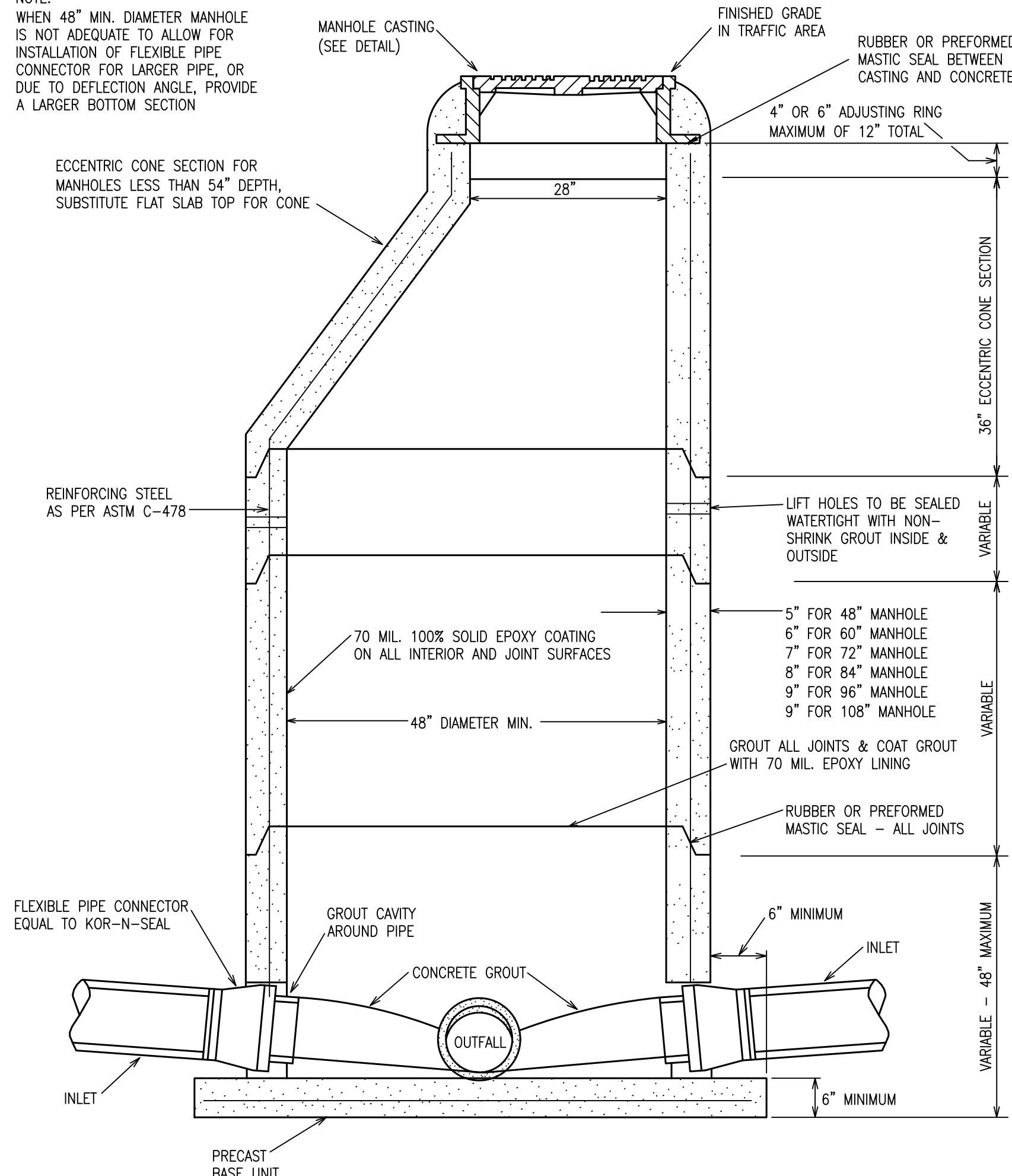
- NOTE:
CLEANOUT LINE TO BE OF THE SAME DIAMETER AND MATERIAL AS SEWER MAIN
- NOTES:
1. CLEANOUTS SHALL NOT BE LOCATED IN CURB RAMPS.
 2. CLEANOUTS SHALL NOT BE STRADDLING ANY EDGE OF PAVEMENT, SIDEWALK, OR CURB.

6 TERMINAL CLEANOUT
SCALE: NOT TO SCALE

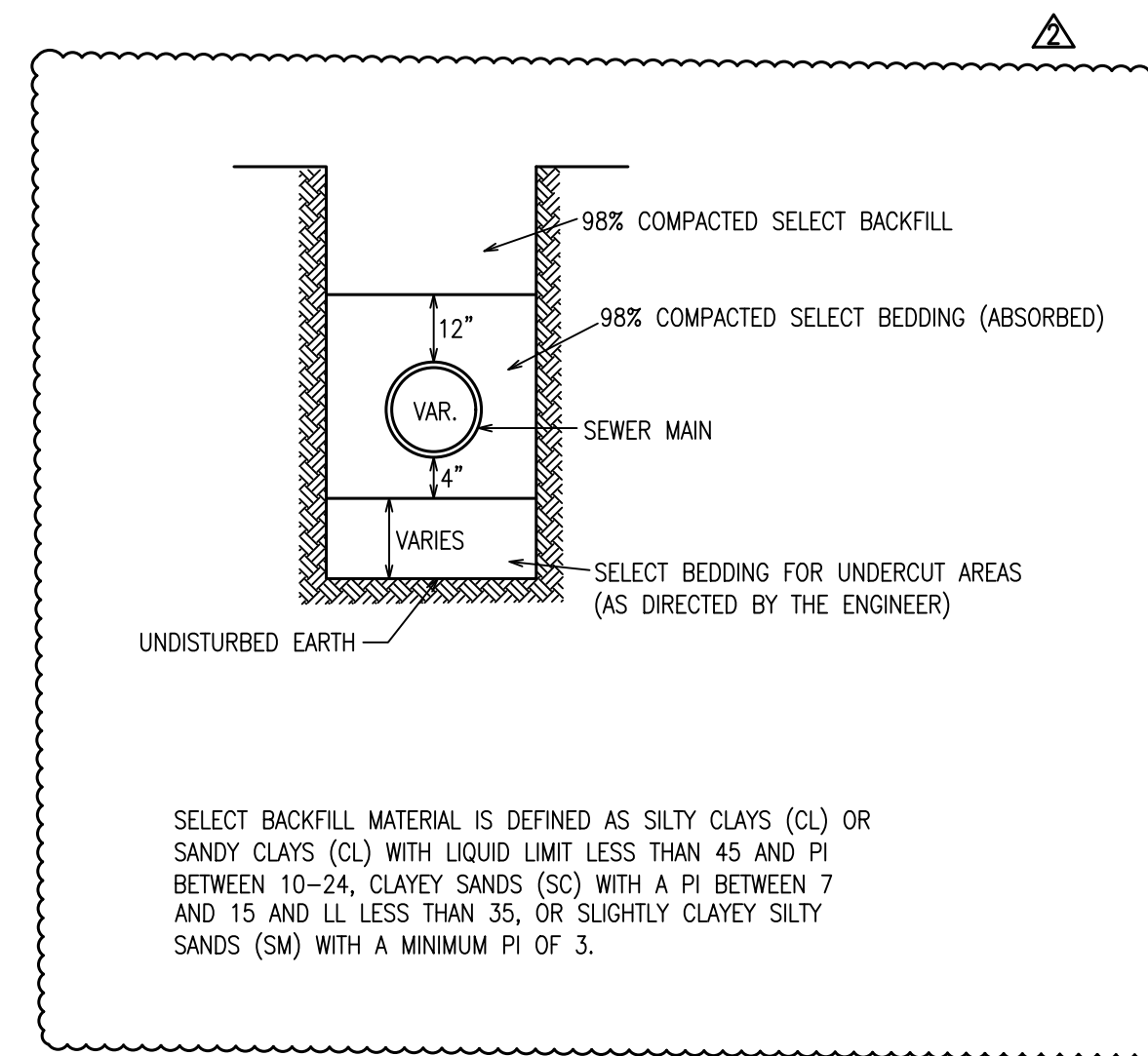


2 SECTION PRECAST CONCRETE MANHOLE WITH DROP CONNECTION
SCALE: NOT TO SCALE

NOTE:
WHEN 48" MIN. DIAMETER MANHOLE IS NOT ADEQUATE TO ALLOW FOR INSTALLATION OF FLEXIBLE PIPE CONNECTOR FOR LARGER PIPE, OR DUE TO DEFLECTION ANGLE, PROVIDE A LARGER BOTTOM SECTION



3 SECTION PRECAST CONCRETE MANHOLE
SCALE: NOT TO SCALE



SELECT BACKFILL MATERIAL IS DEFINED AS SILTY CLAYS (CL) OR SANDY CLAYS (CL) WITH LIQUID LIMIT LESS THAN 45 AND PI BETWEEN 10-24, CLAYEY SANDS (SC) WITH A PI BETWEEN 7 AND 15 AND LL LESS THAN 35, OR SLIGHTLY CLAYEY SILTY SANDS (SM) WITH A MINIMUM PI OF 3.

7 BEDDING / BACKFILL GRAVITY SEWER
SCALE: NOT TO SCALE

ARCHITECTURAL ABBREVIATIONS

∠	ANGLE	K.O.	KNOCK DOWN
&	AND		
@	AT	L.A.T.	LAY-IN ACOUSTICAL TILE
A/C	AIR CONDITIONING	LAM.	LAMINATE
ACM.	ASBESTOS CONTAINING MATERIALS	LAV.	LAVATORY
ACOUS.	ACOUSTICAL	LBP.	LEAD BASED PAINT
ACT	ACOUSTICAL CEILING TILE	LBS.	POUNDS
A/E	ARCHITECT/ENGINEER	LT.	LIGHT
A.F.F.	ABOVE FINISHED FLOOR	LT. WT.	LIGHT WEIGHT
A.H.U.	AIR HANDLING UNIT	LVR.	LOUVER
ALT.	ALTERNATE	MAS.	MASONRY
ALUM.	ALUMINUM / ALUMINIUM	MAX.	MAXIMUM
A.P.C.	ARCHITECTURAL PRECAST CONCRETE	MECH.	MECHANICAL
A.P.	ACCESS PANEL	MEMB.	MEMBRANE
APPROX.	APPROXIMATE	MFG.	MANUFACTURER
ARCH.	ARCHITECTURAL	MH.	MANHOLE
ASPH.	ASPHALT	MIL.	MINIMUM
ASY.	ASSEMBLY	MISC.	MISCELLANEOUS
ATTEN.	ATTENUATION	M.O.	MASONRY OPENING
A.V.	AUDIO/VISUAL	M.R. GYP. BD.	MOISTURE RESISTANT GYPSUM BOARD
		MTD.	MOUNTED
BD.	BOARD	MTL.	METAL
BIT.	BITUMINOUS	MATL.	MATERIAL
BLDG.	BUILDING	MIR.	MIRROR
BLKG.	BLOCKING	MULL.	MULLION
BM.	BEAM		
B.M.	BENCH MARK		
BTM.	BOTTOM	N.	NORTH
BRG.	BRACING	N/A	NOT APPLICABLE
BRZ.	BRONZE	N.I.C.	NOT IN CONTRACT
BU.	BUILT-UP	N.T.S.	NOT TO SCALE
B.U.R.	BUILT-UP ROOF	#	NUMBER
		NOM.	NOMINAL
[/ CH.	CHANNEL	O.A.	OUTSIDE AREA
CB.	CABINET	O.C.	ON CENTER
C.B.	CATCH BASIN	O.D.	OUTSIDE DIAMETER
CEM.	CEMENT	OPH.	OPPOSITE HAND
CER.	CERAMIC	OH.	OVERHEAD
CFS.	COLD FORMED STEEL	OPNG.	OPENING
C.G.	CORNER GUARD	OPNG.	OPPOSITE
C.I.	CONTINUOUS INSULATION	ORIG.	ORIGINAL
CJ.	CONTROL JOINT	O.S.	OVERFLOW SCUPPER
CL.	CEILING	O.S.	OUTLINE
CLR.	CLEAR	OTLN.	OVERFLOW DRAIN
CMU.	CONCRETE MASONRY UNIT	OVD.	OVERFLOW DRAIN
C.O.	CASING OPENED		
COL.	COLUMN	#	POUND
CONC.	CONCRETE	PBD.	PARTICLE BOARD
CONN.	CONNECTION	PC. CONC.	PRECAST CONCRETE
CONST.	CONSTRUCTION	PLAM.	PLASTIC LAMINATE
CONT.	CONTINUOUS	P.I.P.	POURED-IN PLACE
COORD.	COORDINATE	P.L.	PROPERTY LINE
CPT.	CARPET	PL.	PLATE
C.R. CH.	COLD-ROLLED CHANNEL	PLAS.	PLASTER
CT	CERAMIC TILE	POL.	POLISHED
CTSK.	COUNTERSINK	PR.	PAIR
		PRE-FAB.	PRE-FABRICATED
DBL.	DOUBLE	PRE-FIN.	PRE-FINISHED
DEMO.	DEMOLITION / DEMOLISHED	PTD.	PAINTED
DEPT.	DEPARTMENT	PARTN.	PARTITION
DTL.	DETAIL	PVMT.	PAVEMENT
DIA.	DIAMETER	PLYWD.	PLYWOOD
DIM.	DIMENSION		
DISP.	DISPENSER	RAD.	RADIUS
DN.	DOWN	R.A.G.	RETURN AIR GRILLE
DP.	DAMP-PROOFING	RB.	RUBBER BASE
DS.	DOWNSPOUT	RC.	RESILIENT CHANNEL
DWGS.	DRAWINGS	RCF.	REFLECTED CEILING PLAN
		R.D.	ROOF DRAIN
E.	EAST	RD.	ROUND
EA.	EACH	REF.	REFERENCE / REFER
E.D.F.	ELECTRICAL DRINKING FOUNTAIN	REINF.	REINFORCED / REINFORCEMENT
E.F.	EXHAUST FAN	RECYD.	RECYCLED
E.F.S.	EXTERIOR INSULATION & FINISH SYSTEM	RESIL.	RESILIENT
E.J.	EXPANSION JOINT	R.H.	ROBE HOOK
ELEC.	ELECTRICAL	RM.	ROOM
EL.	ELEVATION	R.O.	ROUGH OPENING
ELEV.	ELEVATOR	S.	SOUTH
EMER.	EMERGENCY	SC.	SOLID CORE
ENCL.	ENCLOSURE	SCHED.	SCHEDULE
E.P.	EPOXY PAINT	S.C.WD.	SOLID CORE WOOD
EQ.	EQUAL	S.D.	SOAP DISPENSER
EQUIP.	EQUIPMENT	SEAL.	SEALANT
EST.	ESTIMATED	SECT.	SECTION
E.W.	EACH WAY	SER. SK.	SERVICE SINK
EXH.	EXHAUST	SHT.	SHEET
EXP.	EXPANSION	SHVS.	SHELVES
EXPO.	EXPOSED	SHWR.	SHOWER
EXIST.	EXISTING	SIM. / SIM	SIMILAR
EXT.	EXTERIOR	SP.	SPLASH BLOCK
		SPEC.	SPECIFICATION / SPECIFIED
F.A.P.	FIRE ALARM PANEL	SQ.	SQUARE
FD.	FLOOR DRAIN	SQ. FT.	SQUARE FEET
FNDN.	FOUNDATION	SS.	SANITARY SEWER
F.E.	FIRE EXTINGUISHER	S.S.	STAINLESS STEEL
F.E.C.	FIRE EXTINGUISHER CABINET	S.T.C.	SOUND TRANSMISSION COEFFICIENT
F.F.	FINISH FLOOR	STD.	STANDARD
F.F.E.	FINISH FLOOR ELEVATION	ST. DR.	STORM DRAIN
F.H.	FIRE HYDRANT	STL.	STEEL
F.H.C.	FIRE HOSE CABINET	STRUCT.	STRUCTURAL
FIN.	FINISH	SUSP.	SUSPENDED
FIXT.	FIXTURE	SYM.	SYMMETRICAL
FLR.	FLOOR	SYS.	SYSTEM
F.O.M.	FACE OF MASONRY	SYN.	SYNTHETIC
F.O.S.	FACE OF STUD		
FP.	FIRE PROTECTION / FIREPROOFING	T.B.	TOWEL BAR
F.S.	FULL SIZE	T.C.	TOP OF CURB
'	FOOT / FEET	T.E.L.	TELEPHONE
FTG.	FOOTING	TEMP.	TEMPORARY
FURN.	FURNISHED	T&G.	TONGUE & GROOVE
FURR.	FURRING	THRES.	THRESHOLD
F.W.C.	FABRIC WALL COVERING	THK.	THICK / THICKNESS
		T.O.S.	TOP OF STEEL
GA.	GUAGE	TYP.	TYPICAL
GALV.	GALVANIZED		
G.B.	GRAB BAR	U.H.	UNIT HEATER
GRD.	GRADE	UNO.	UNLESS NOTED OTHERWISE
G.C.	GENERAL CONTRACTOR	U.P.S.	UNINTERRUPTABLE POWER SUPPLY
GL.	GLASS / GLAZING	U.S.	UTILITY SHELF
G.P.	GYPSUM		
GYP. BD.	GYPSUM BOARD	VCT.	VINYL COMPOSITION TILE
		VERT.	VERTICAL
H.B.	HOSE BIB	V.F.	VERIFY IN FIELD
H.C.	HOLLOW CORE	V.O.J.	VERIFY ON JOB
H.C. / HCP.	HANDICAP	V.T.R.	VENT-THRU-ROOF
HCWD.	HOLLOW CORE WOOD	V.W.C.	VINYL WALL COVERING
HDWE.	HARDWARE		
HT.	HEIGHT	W.	WEST
HSTORIC.	HISTORICAL	W/	WITH
H.M.	HOLLOW METAL	W.C.	WATER CLOSET
HORIZ.	HORIZONTAL	WD.	WOOD
HR.	HOUR	WDW.	WINDOW
H.R.	HANDRAIL	WH.	WATER HEATER
HVAC.	HEATING, VENTILATING, & AIR CONDITIONING	WO.	WITHOUT
		W.P.	WATERPROOF
-	INCH	WSCT.	WAINSCOT
I.D.	INSIDE DIAMETER	WT.	WEIGHT
INSUL.	INSULATION	W.W.M.	WELDED WIRE MESH
INT.	INTERIOR		
INV.	INVERT		
I.P.	IRON PIPE		
JAN.	JANITOR		
J.B.	JOIST BRG.		
JT.	JOINT		

MATERIALS LEGEND

	BRICK		INSULATION (RIGID)
	CONCRETE		METAL
	CONCRETE MASONRY UNITS		SHEATHING
	GRAVEL		WOOD (SOLID WOOD)
	GROUT		WOOD (CONTINUOUS BLOCKING)
	GYPSUM BOARD		WOOD (DISCONTINUOUS BLOCKING)
	INSULATION (BATT)		WATERPROOFING / DAMP PROOFING

SYMBOLS LEGEND

	DOOR TAG
	ELEVATION MARK
	ELEVATION TAG
	ROOM MARK
	SECTION MARK
	STOREFRONT MARK
	PARTITION TYPE
	WINDOW TYPE

GENERAL NOTES

- NOTES APPEAR ON VARIOUS DRAWINGS FOR VARIOUS DISCIPLINES FOR DIFFERENT SYSTEMS AND MATERIALS. REVIEW ALL SHEETS AND APPLY NOTES TO RELATED BUILDING COMPONENTS.
- REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR OTHER APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS.
- WHERE MATERIALS ARE APPLIED TO, OR ARE IN DIRECT CONTACT WITH WORK INSTALLED BY ANOTHER SUBCONTRACTOR, COMMENCEMENT OF WORK IMPLIES ACCEPTANCE OF THE SUBSTRATE AS SUITABLE FOR THE APPLICATION INTENDED.
- ISOLATE DISSIMILAR METALS TO PREVENT GALVANIC CORROSION.
- PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED ON A WALL ARE TO BE CONTINUOUS FOR THE LENGTH AND HEIGHT OF A PARTITION.
- OPENINGS IN RATED WALL, FLOOR, CEILING AND ROOF ASSEMBLIES SHALL BE SEALED WITH PENETRATION SEALANT SYSTEMS MEETING OR EXCEEDING THE REQUIRED FIRE RESISTIVE RATINGS.
- MAINTAIN THE FIRE RATING OF CONSTRUCTION AROUND CABINETS, PANELS, AND BOXES RECESSED IN FIRE RATED WALL, FLOOR, AND CEILING ASSEMBLIES.
- PROVIDE CONTINUOUS PERIMETER FIRE SAFING BETWEEN FLOORS AND COORDINATE THE INSTALLATION WITH THE EXTERIOR WALL. FIRE RATING OF SAFING SHALL MATCH FIRE RATING OF FLOOR CONSTRUCTION.
- DO NOT SCALE THE DRAWINGS.
- FIELD MEASURE AND CONFIRM DIMENSIONS FOR OWNER PROVIDED EQUIPMENT AND FURNISHINGS.
- PROVIDE STIFFENERS, BRACING, BACKING PLATES AND BLOCKING REQUIRED FOR SECURE INSTALLATION OF TOILET PARTITIONS, DOORS AND DOOR HARDWARE INCLUDING WALL-MOUNTED DOOR STOPS, HANDRAILS, WALL-MOUNTED SHELVES, OPERABLE PARTITIONS, MISCELLANEOUS EQUIPMENT, AND SUSPENDED MECHANICAL AND ELECTRICAL EQUIPMENT.
- COORDINATE ALL BASE AND HOUSEKEEPING PADS WITH MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT.
- LOCATE ACCESS PANELS AS INDICATED ON DRAWINGS. FOR ACCESS PANELS NOT SHOWN BUT REQUIRED BY PROVISIONS OF THE CONTRACT DOCUMENTS, LOCATED IN ACCORDANCE WITH APPLICABLE CODES. SUBMIT PROPOSED LOCATIONS TO THE ARCHITECT FOR REVIEW AND ACCEPTANCE PRIOR TO INSTALLATION.

PROJECT TEAM

OWNER

CITY OF PEARL
320 CITY CENTER DRIVE
PEARL, MS 39208
601.932.3541 (P)
601.932.6992 (F)
SCOOTER MYERS
smyers@cityofpearl.com

ARCHITECT

WIER BOERNER ALLIN ARCHITECTURE, PLLC.
2727 OLD CANTON RD., STE. 200
JACKSON, MS 39216
601.321.9107 (P)
601.321.9108 (F)
JAMIE WIER, AIA
jwier@wibaarchitecture.com

CIVIL ENGINEER

PICKERING FIRM, INC.
201 AIRPORT ROAD, STE. 201
FLOWOOD, MS 39222
601.956.3663 (P)
601.956.7817 (F)
JONATHAN JOHNSON, P.E.
jjohnson@pickeringfirm.com

MECHANICAL + PLUMBING ENGINEERS

GSK MECHANICAL, INC.
201 PARK COURT, STE. A
RIDGELAND, MS 39157
601.605.2930 (P)
1.844.493.3111 (F)
KEVIN STARKS, P.E.
kstarks@gskmech.com

STRUCTURAL ENGINEER

MCQUEEN STRUCTURAL ENGINEERING, PLLC
965 HIGHWAY 51, STE. 3
MADISON, MS 39110
601.898.1295 (P)
601.898.1056 (F)
JASON MCQUEEN, P.E.
jason@mcqueense.com

ELECTRICAL ENGINEER

THE POWER SOURCE, PLLC
945 MADISON AVENUE
MADISON, MS 39110
601.605.4820 (P)
601.605.4875 (F)
CHRIS GREEN, P.E.
cgreen@thepowersource.us

VICINITY MAP



EXISTING SITE IMAGE

PROJECT DESCRIPTION

THIS PROJECT FEATURES SIGNIFICANT CIVIL IMPROVEMENTS RELATING TO EIGHT BASEBALL FIELDS AND THREE SOFTBALL FIELDS. THE ARCHITECTURAL SCOPE INVOLVES TWO NEW CONCESSIONS AND RESTROOM BUILDINGS, FIELD BACKSTOP WALLS AND NETTING, AND NEW DUGOUTS AND SEATING SHADE STRUCTURES.

EACH CONCESSION STAND (A SMALL BUILDING AT THE SOFTBALL FIELDS AND LARGE BUILDING AT THE BASEBALL FIELDS) IS WOOD FRAMED WITH EXTERIOR METAL PANEL, BRICK WAJNSCOTING, AND METAL ROOF PANEL. EACH BUILDING INCLUDES KITCHEN EQUIPMENT AND A VENT HOOD.

THE BACKSTOP WALLS ARE CMU BACKUP WALL WITH BRICK VENEER. THE DUGOUTS AND SHADE STRUCTURES ARE BOTH OFF-SHELF, PREMANUFACTURED CANOPY PRODUCTS.

DIMENSIONING CRITERIA

A. ALL DIMS. ARE INTENDED TO BE COMPLEMENTARY. DO NOT SCALE FOR DIM. NOTIFY THE ARCHITECT OF ANY DIM. DISCREPANCY PRIOR TO PROCEEDING.

B. DIM. AT CONC. & MAS. PARTITIONS ARE TO FACE OF PARTITION (NOM. DIM.).

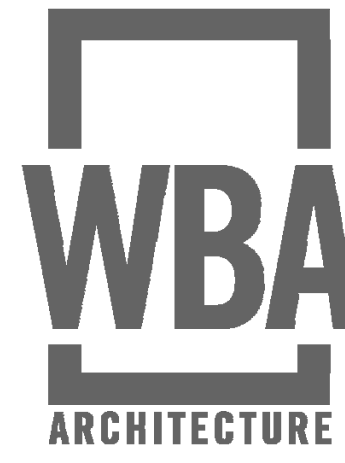
C. DIM. AT FRAMED PARTITIONS ARE TO FACE OF FRAMING, U.N.O.

D. DIM. ARE AS IDENTIFIED ON THE DOCUMENTS OR AS ESTABLISHED BY ADDITIONAL CRITERIA AS FOLLOWS:

- DIM. ARE NOT SHOWN FOR THE FOLLOWING CONDITIONS:
 - WHEN PARTITION IS CENTERED ON GRID LINE.
 - WHEN FACE OF PARTITION IS CENTERED ON GLAZING MULLION.
- FOR OPENINGS IN PARTITIONS OR WALLS:
 - WHEN ONE OCCURS AT A GRIDLINE, NO DIM. WILL BE SHOWN & WIDTH WILL BE ESTABLISHED BY EITHER CRITERIA OR SCHEDULES.
 - WHEN ONE JAMB IS LOGICATED BY A PARTITION INTERSECTION, THE FOLLOWING DIAGRAM APPLIES.

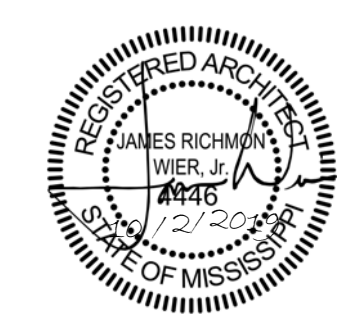
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R100	PROJECT INFO
R200	LIFE SAFETY & ACCESSIBILITY COMPLIANCE
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C2.0S	EXISTING CONDITIONS AND DEMOLITION PLAN - SOFTBALL
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C3.1B	SITE PLAN - NORTHWEST - BASEBALL
C3.2B	SITE PLAN - NORTHEAST - BASEBALL
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C4.2B	GRADING AND DRAINAGE PLAN - NORTHEAST - BASEBALL
C4.3B	GRADING AND DRAINAGE PLAN - SOUTHEAST - BASEBALL
C4.4B	GRADING AND DRAINAGE PLAN - SOUTHWEST - BASEBALL
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C4.6B	SPOT ELEVATION PLAN - NORTHEAST - BASEBALL
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C6.0B	UTILITY PLAN - BASEBALL
C6.0S	UTILITY PLAN - SOFTBALL
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C7.1B	PAVING PLAN - NORTHWEST - BASEBALL
C7.2B	PAVING PLAN - NORTHEAST - BASEBALL
C7.3B	PAVING PLAN - SOUTHEAST - BASEBALL
C7.4B	PAVING PLAN - SOUTHWEST - BASEBALL
C7.0S	PAVING PLAN - SOFTBALL
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C8.1	CONSTRUCTION DETAILS - WATER
C8.2	CONSTRUCTION DETAILS - STORM SEWER
C8.3	CONSTRUCTION DETAILS - SANITARY SEWER
C8.4	CONSTRUCTION DETAILS - EROSION CONTROL
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A020	BASEBALL SITE PLAN
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A022	BASEBALL FIELD LAYOUT B
A023	BASEBALL FIELD LAYOUT C
A024	BASEBALL FIELD LAYOUT D
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A502	DOOR AND WINDOW DETAILS
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07 - MECHANICAL	
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M201	HVAC SCHEDULES
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08 - PLUMBING	
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E102	PANEL SCHEDULES
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E107	LIGHTING PLAN BASEBALL CONCESSION
E108	POWER PLAN BASEBALL CONCESSION
E109	MECHANICAL PLAN BASEBALL CONCESSION
E200	ELECTRICAL LEGEND
E201	ELECTRICAL DETAILS
E202	ELECTRICAL DEMOLITION LIGHTING PLAN
E203	ELECTRICAL RENOVATION LIGHTING PLAN
E204	ELECTRICAL RENOVATION POWER PLAN
E205	LIGHTING / POWER PLAN SOFTBALL CONCESSION
E206	MECHANICAL PLAN SOFTBALL CONCESSION
10 - FOOD SERVICE	
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FS-2	FOOD SERVICE EQUIPMENT DRAWINGS



PARKS AND RECREATION
BASEBALL AND SOFTBALL FIELDS

CITY OF PEARL
320 CITY CENTER DRIVE
PEARL, MS 39208

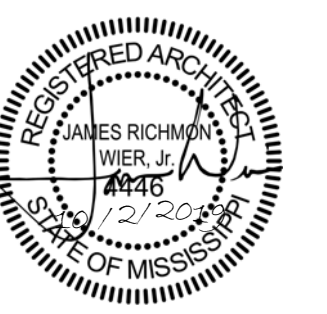
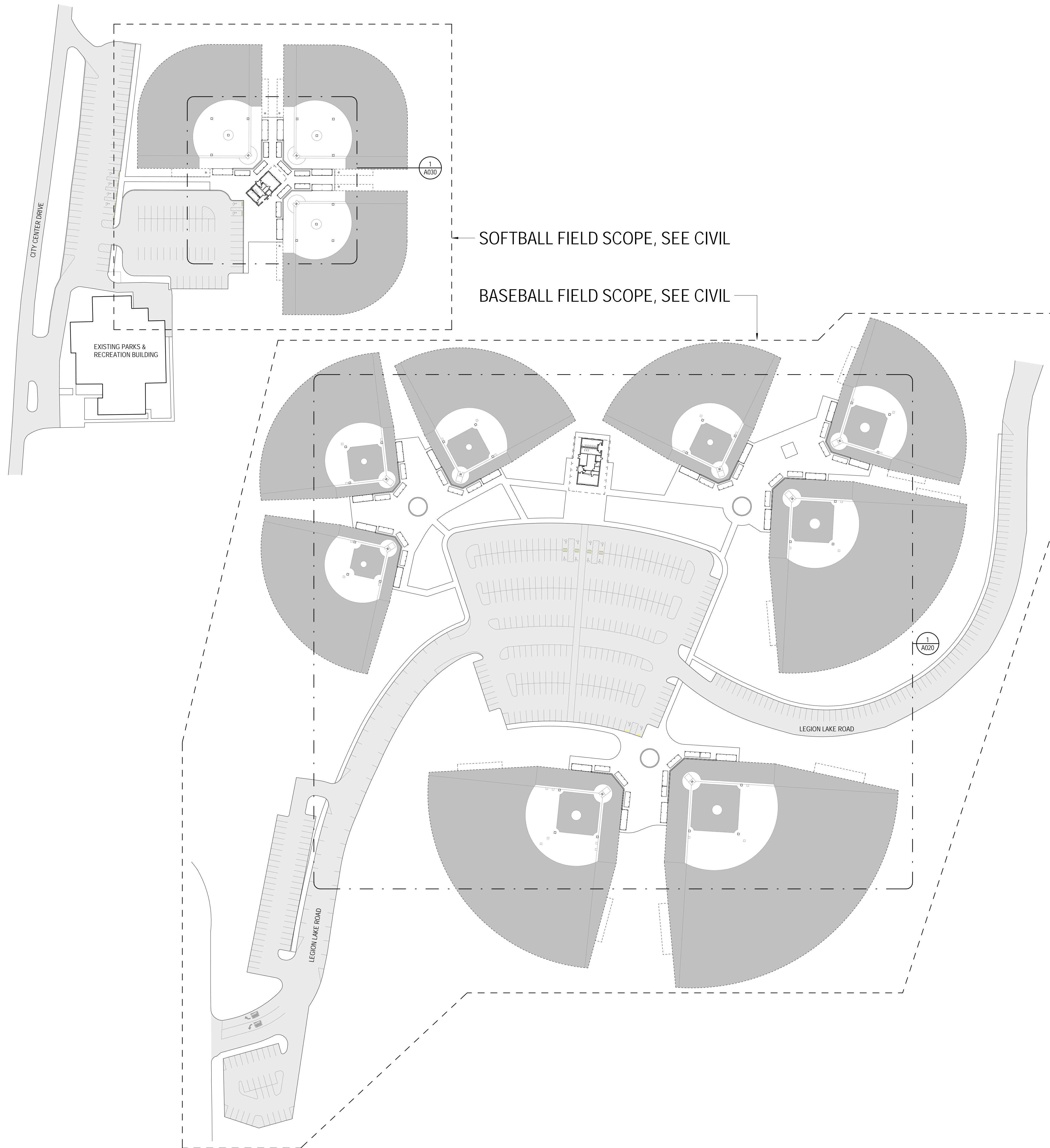


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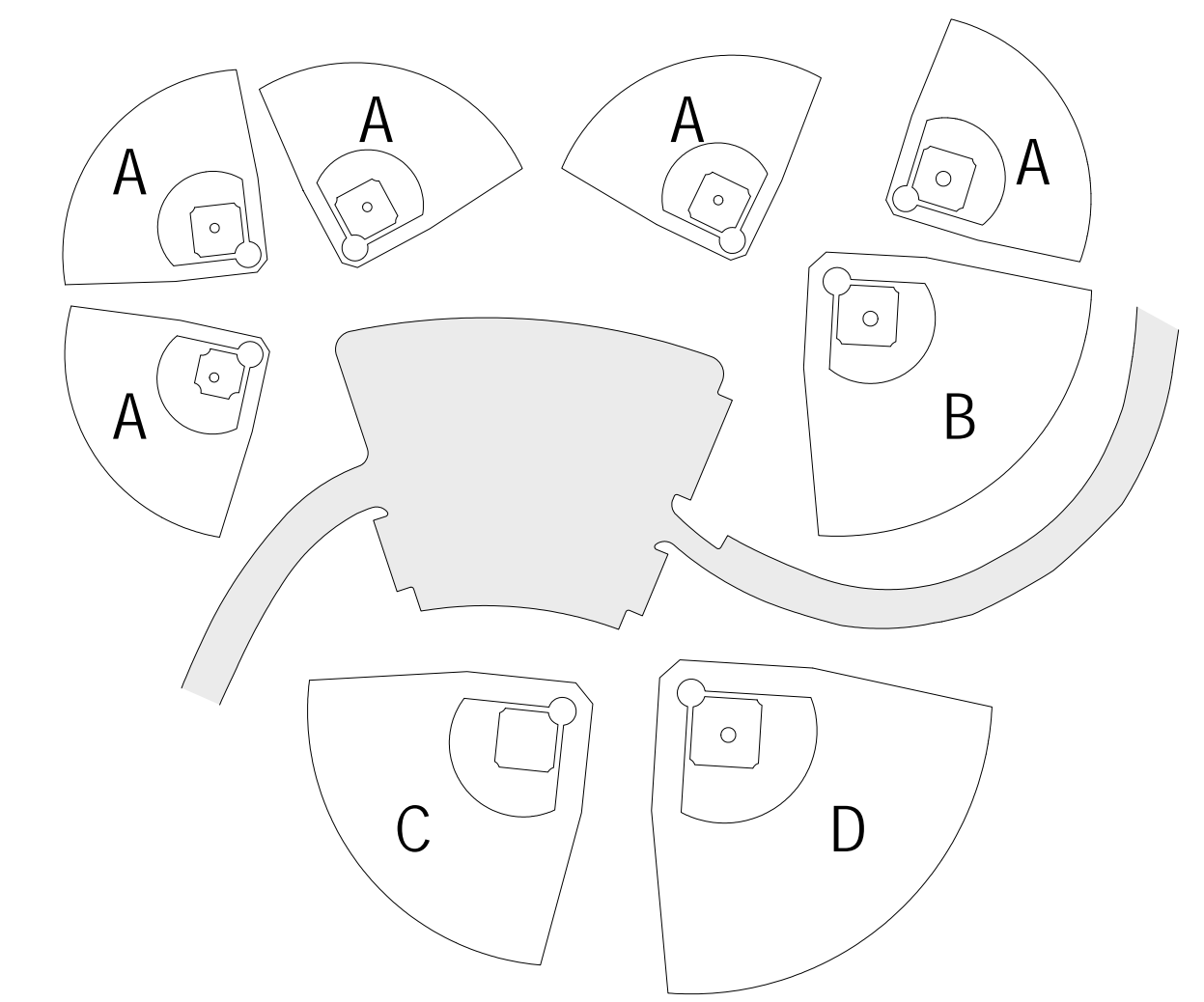
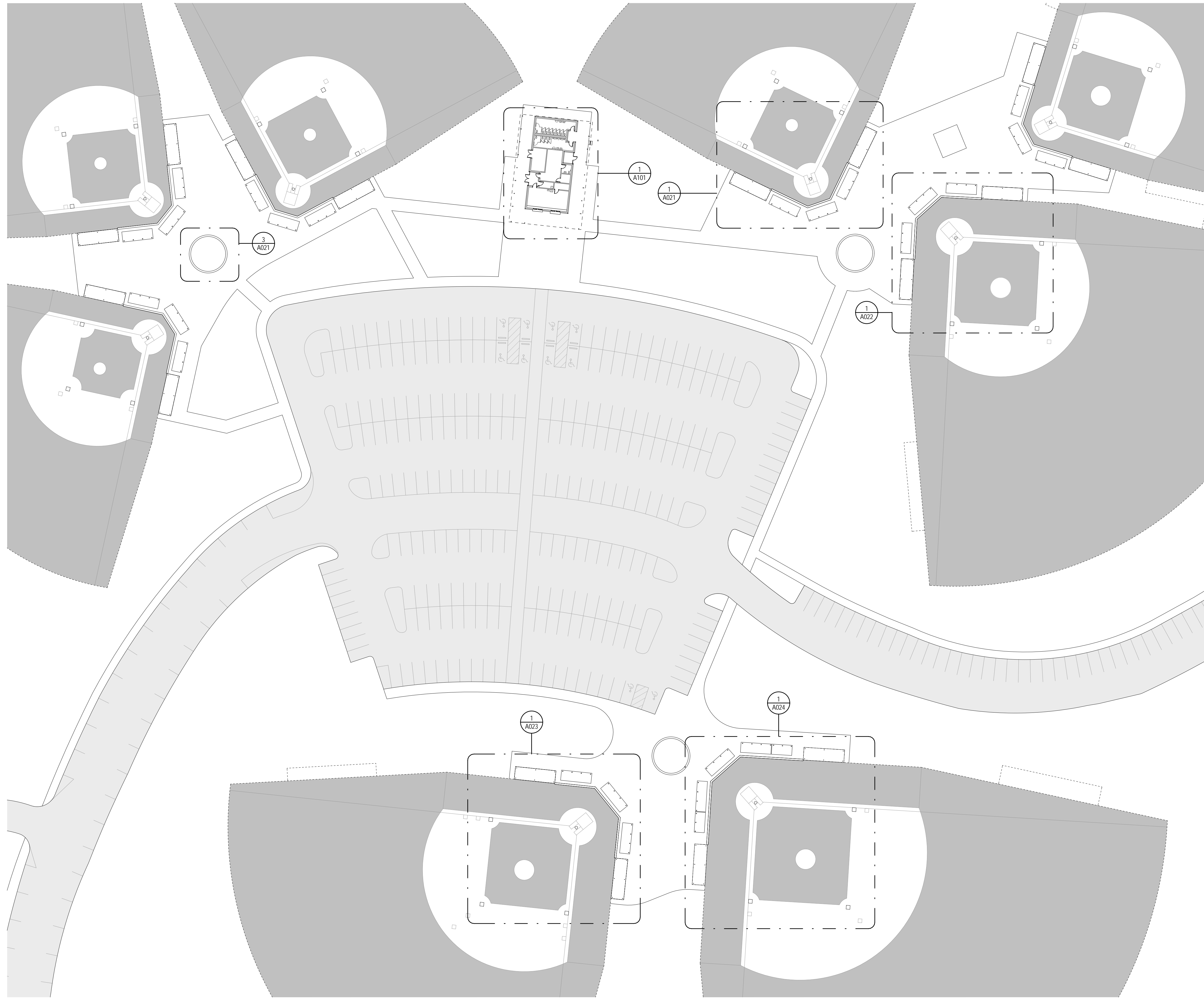
R100
PROJECT INFO



10.02.2019

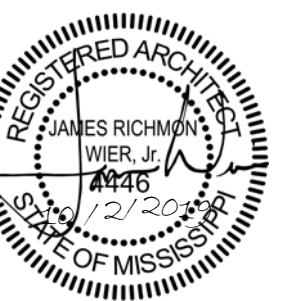
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1 BASEBALL SITE PLAN
1" = 40'-0"

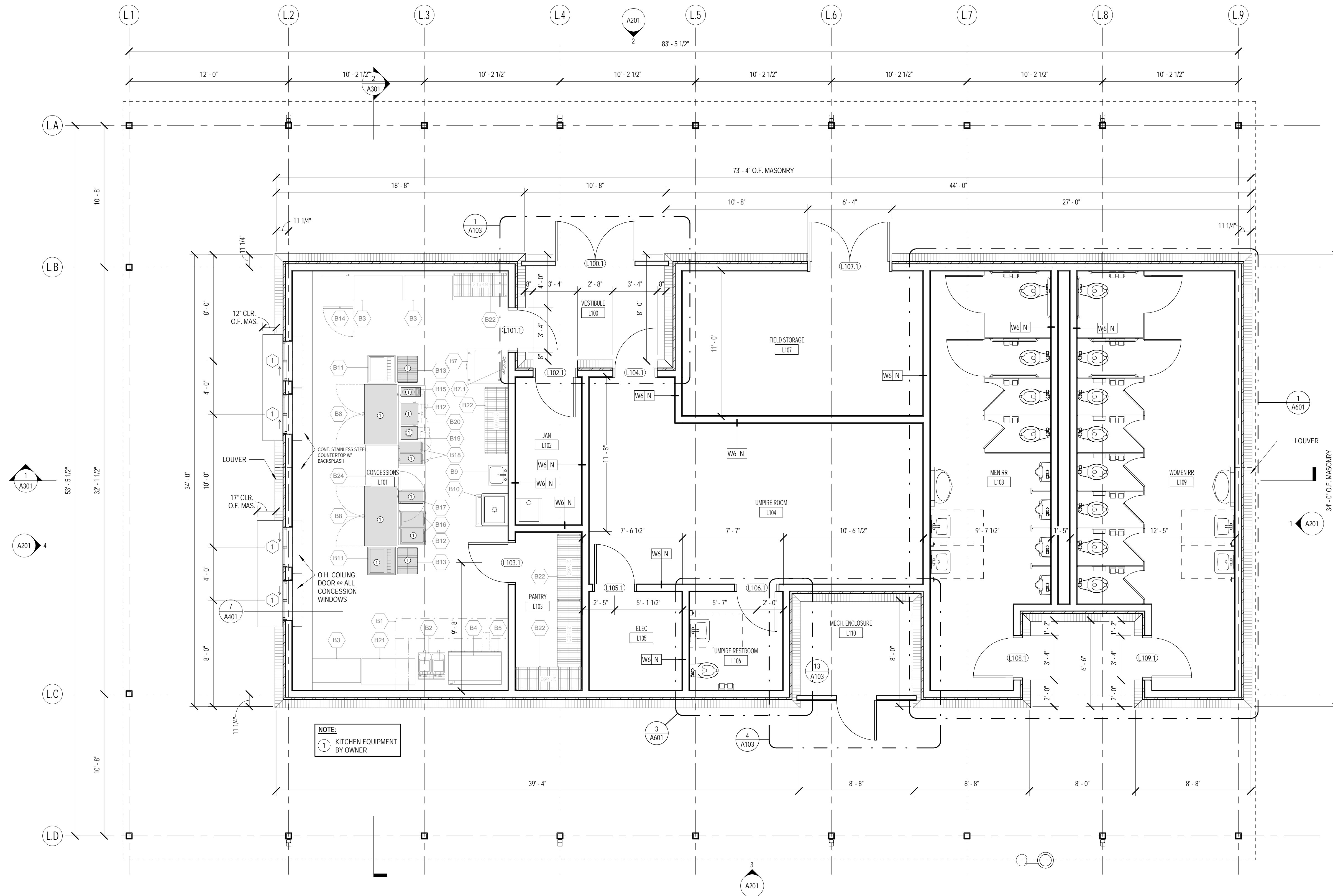
2 OVERALL KEY PLAN
N.T.S.



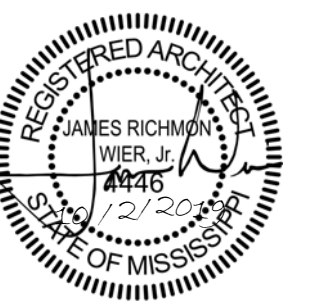
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NO.	DESCRIPTION	DATE



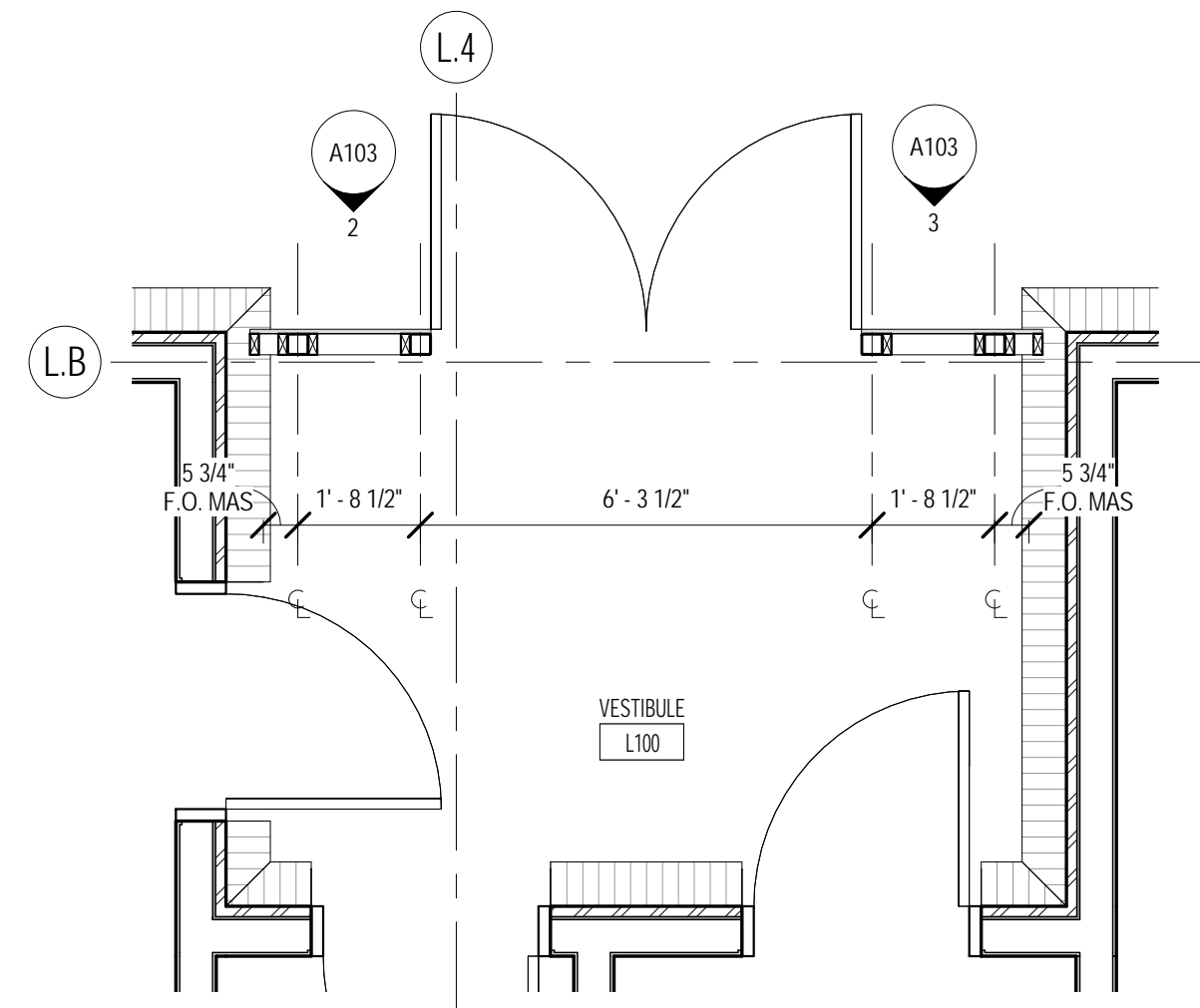
1 LARGE CONCESSIONS STAND PLAN
1/4" = 1'-0"



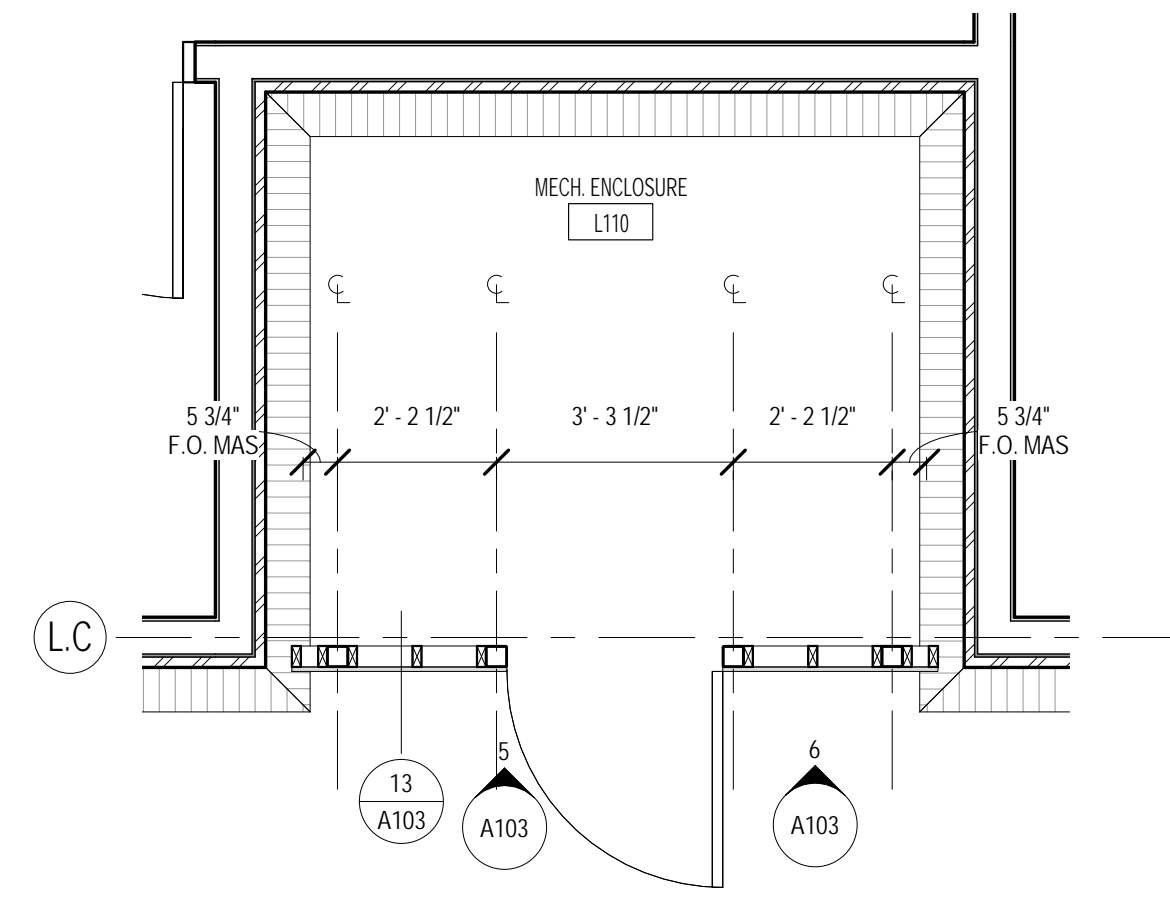
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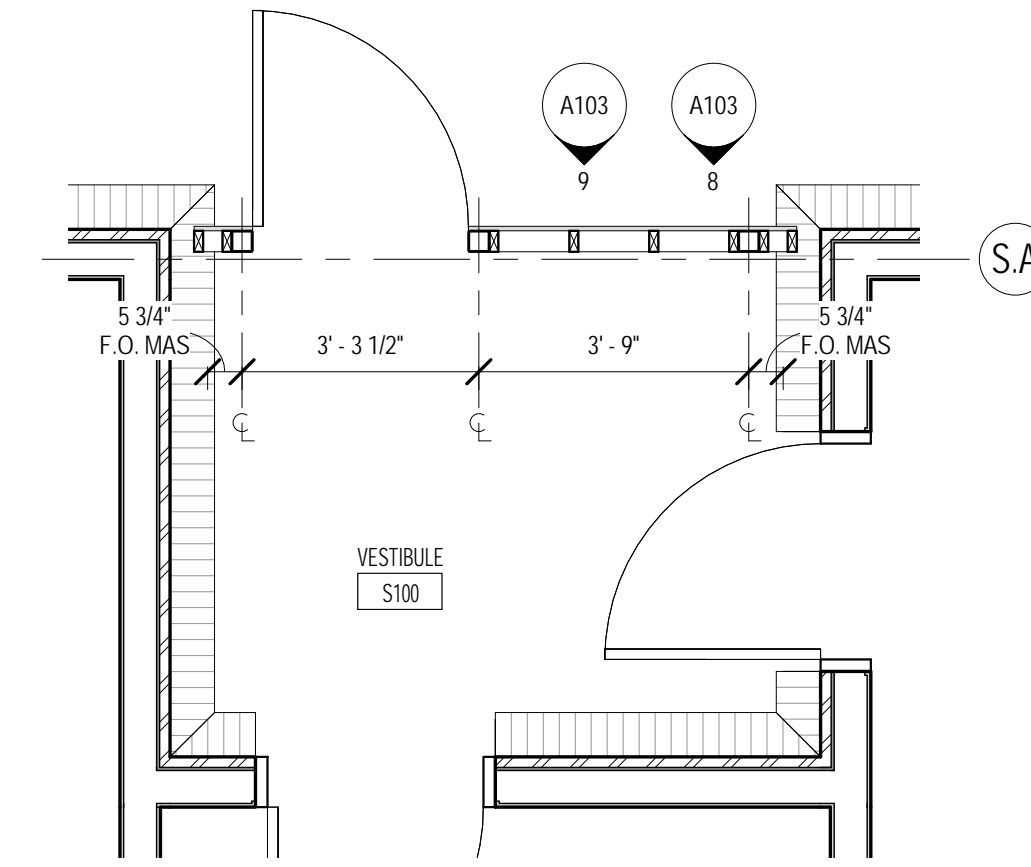
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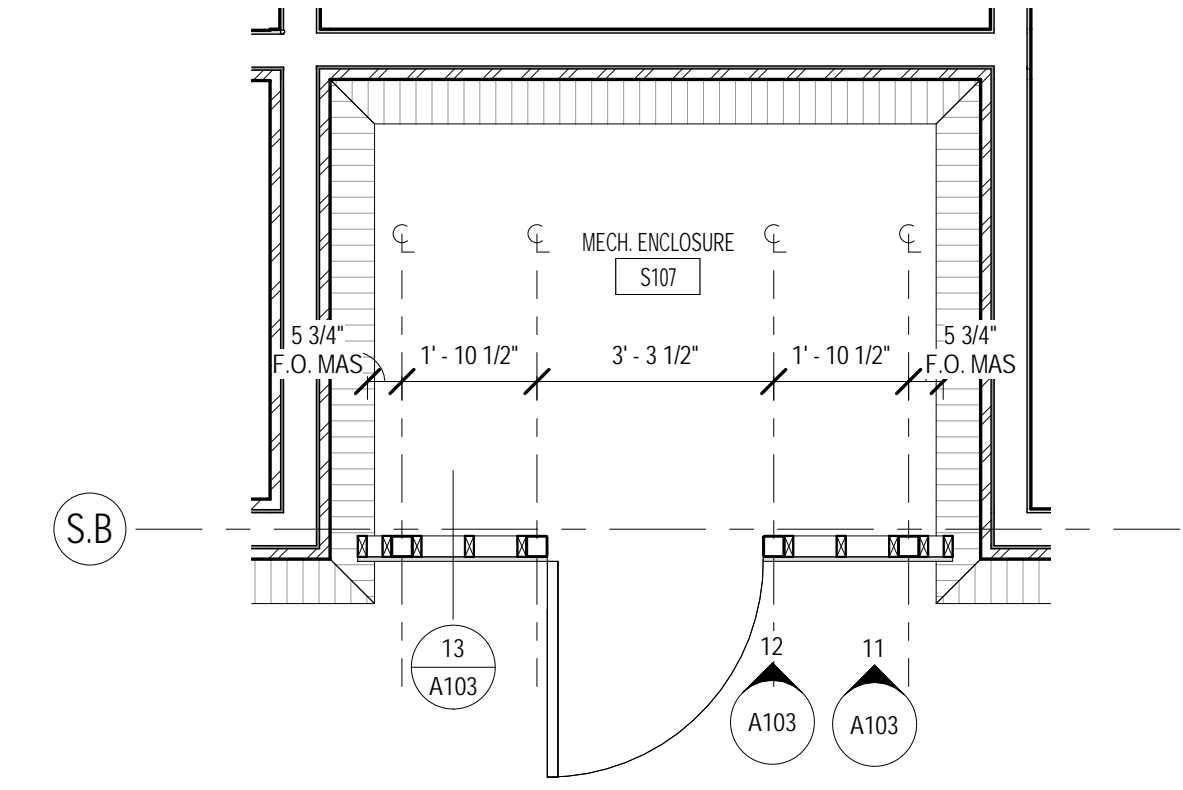
1 VESTIBULE ENLARGED PLANS - LARGE CONCESSIONS STAND PLAN
3/8" = 1'-0"



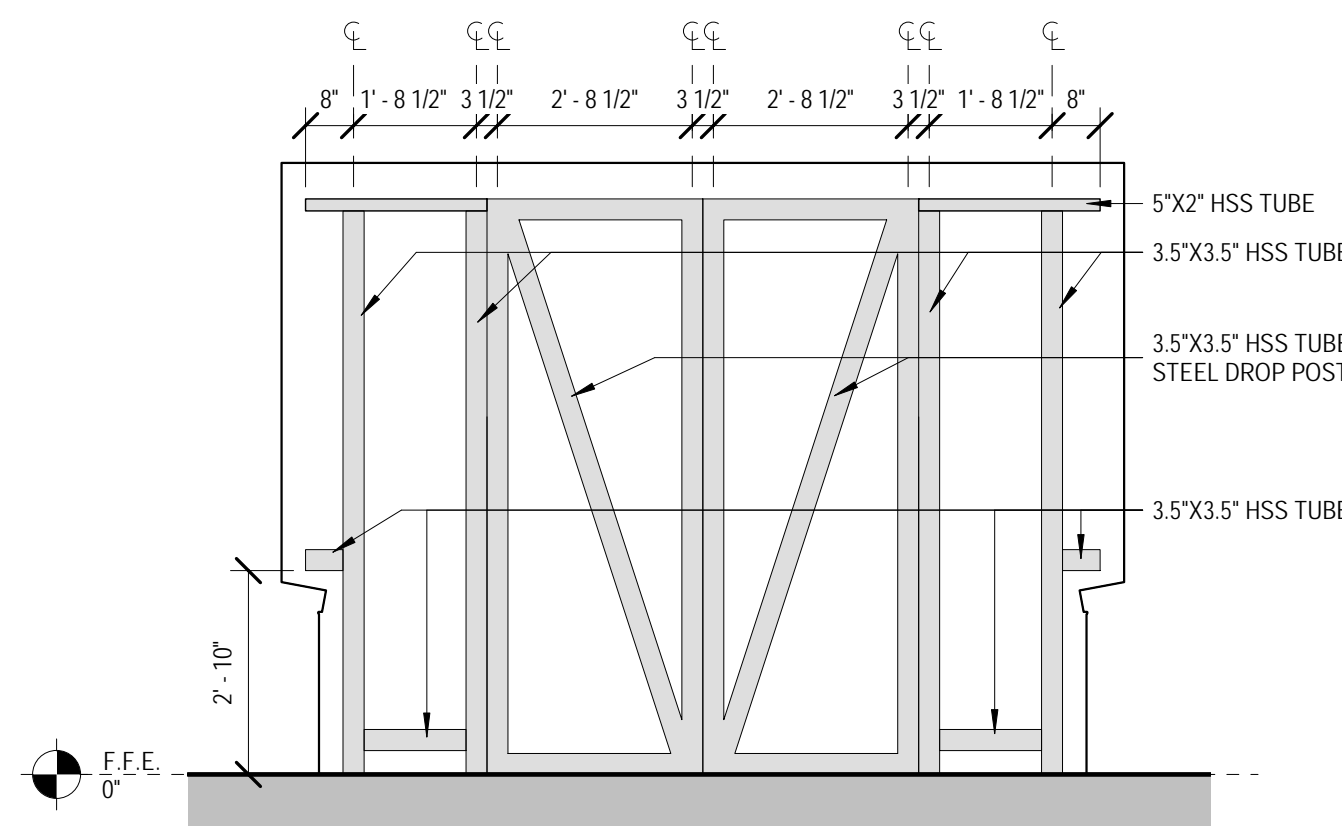
4 MECHANICAL ENCLOSURE PLAN - LARGE CONCESSION STAND
3/8" = 1'-0"



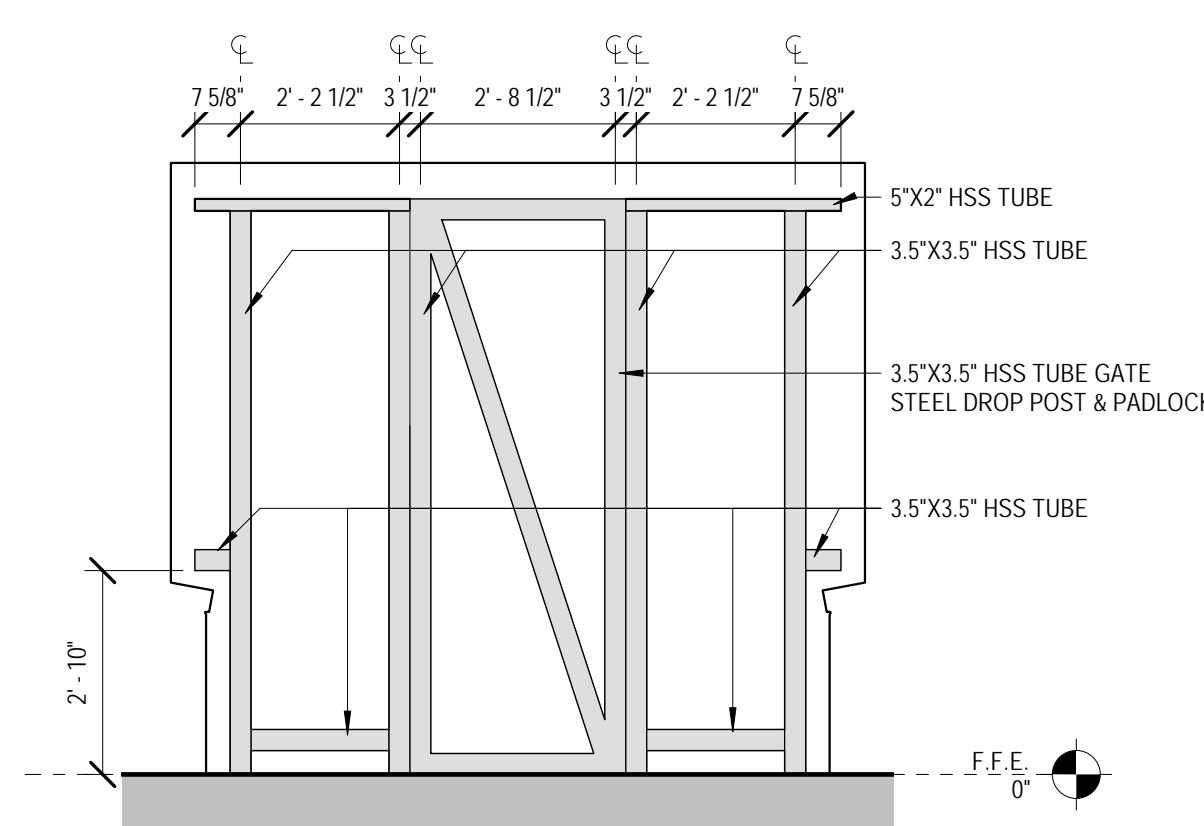
7 VESTIBULE ENLARGED PLAN - SMALL CONCESSIONS STAND
3/8" = 1'-0"



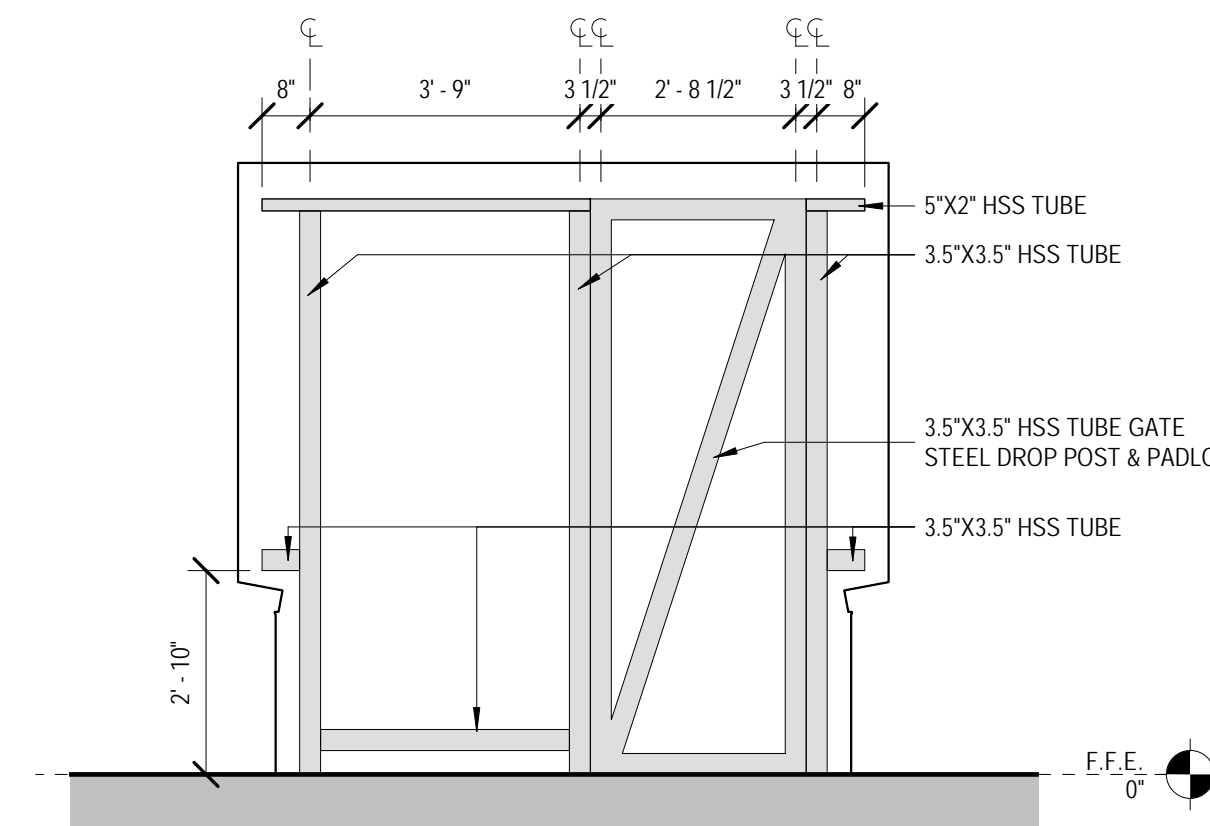
10 MECHANICAL ENCLOSURE PLAN - SMALL CONCESSION STAND
3/8" = 1'-0"



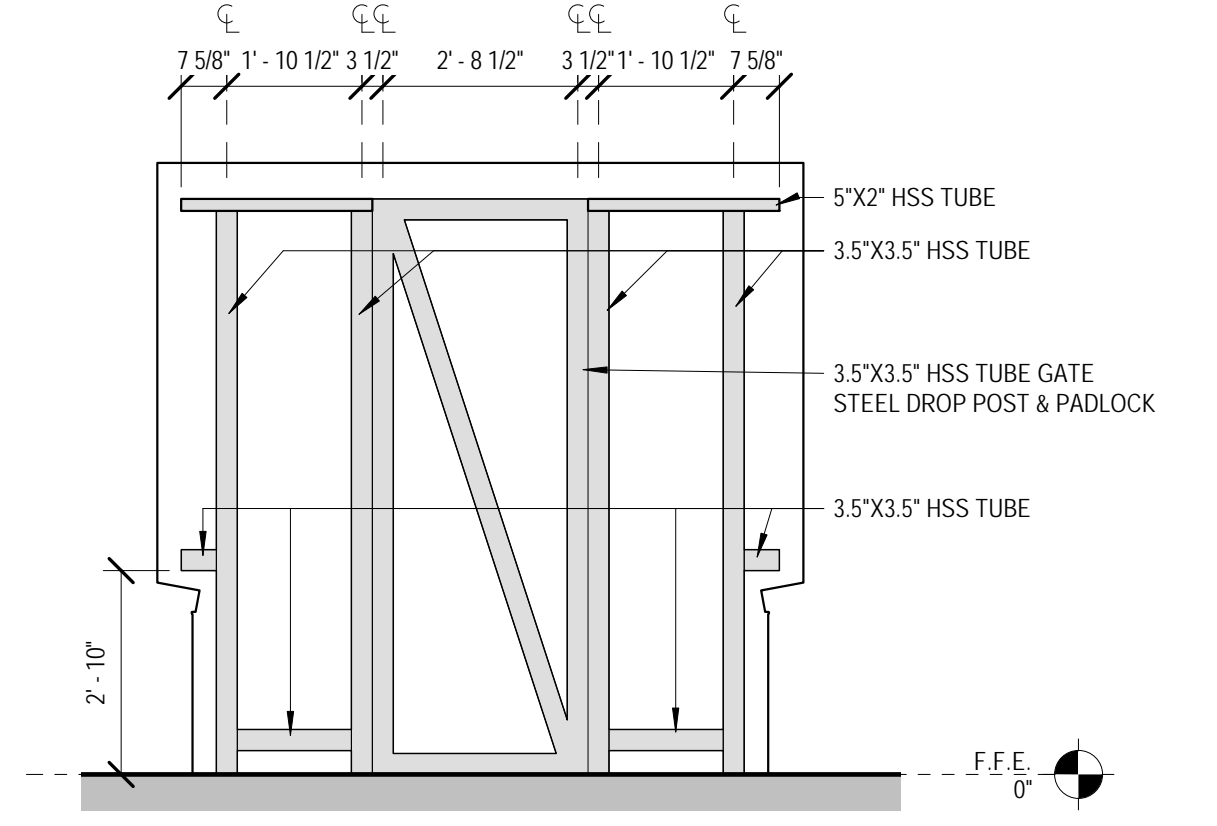
2 VESTIBULE ELEVATION - LARGE CONCESSION STAND - STEEL ELEVATION
3/8" = 1'-0"



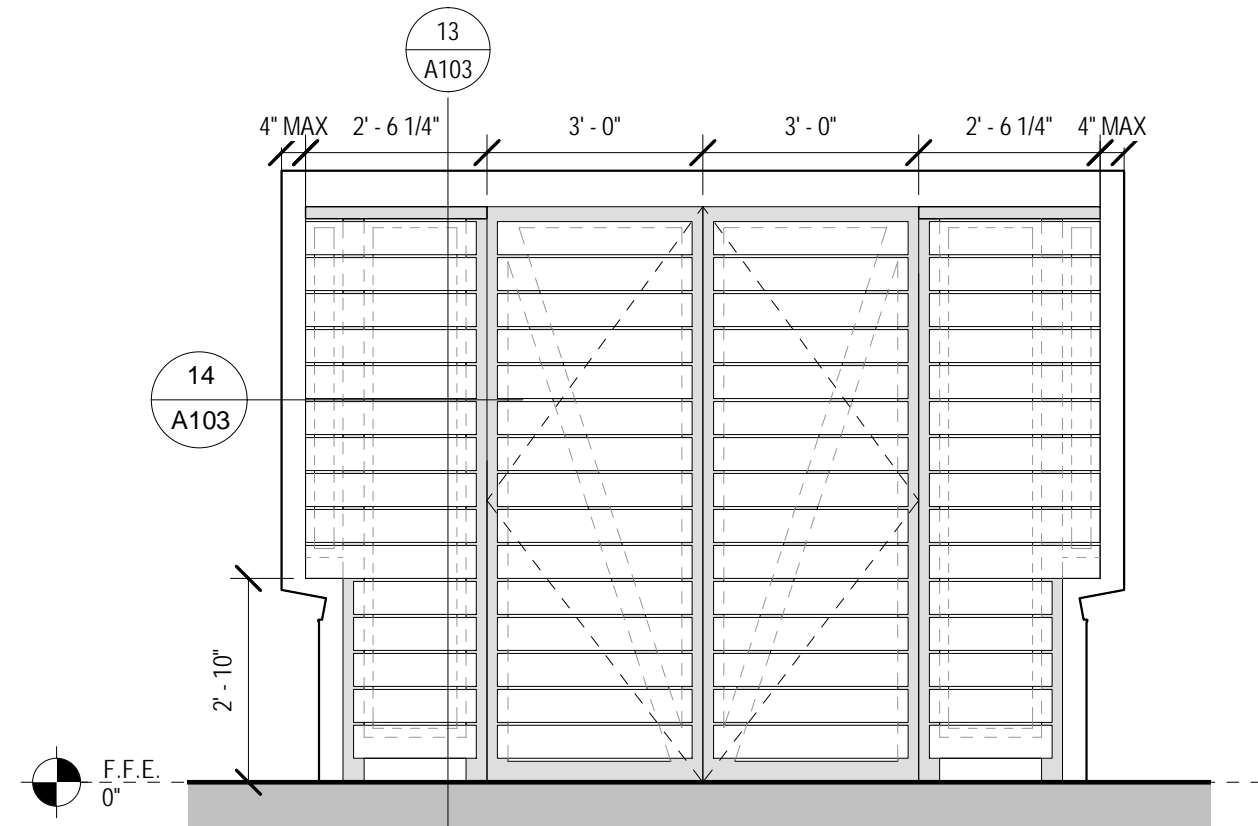
5 MECHANICAL ENCLOSURE ELEVATION - LARGE CONCESSION STAND - STEEL ELEVATION
3/8" = 1'-0"



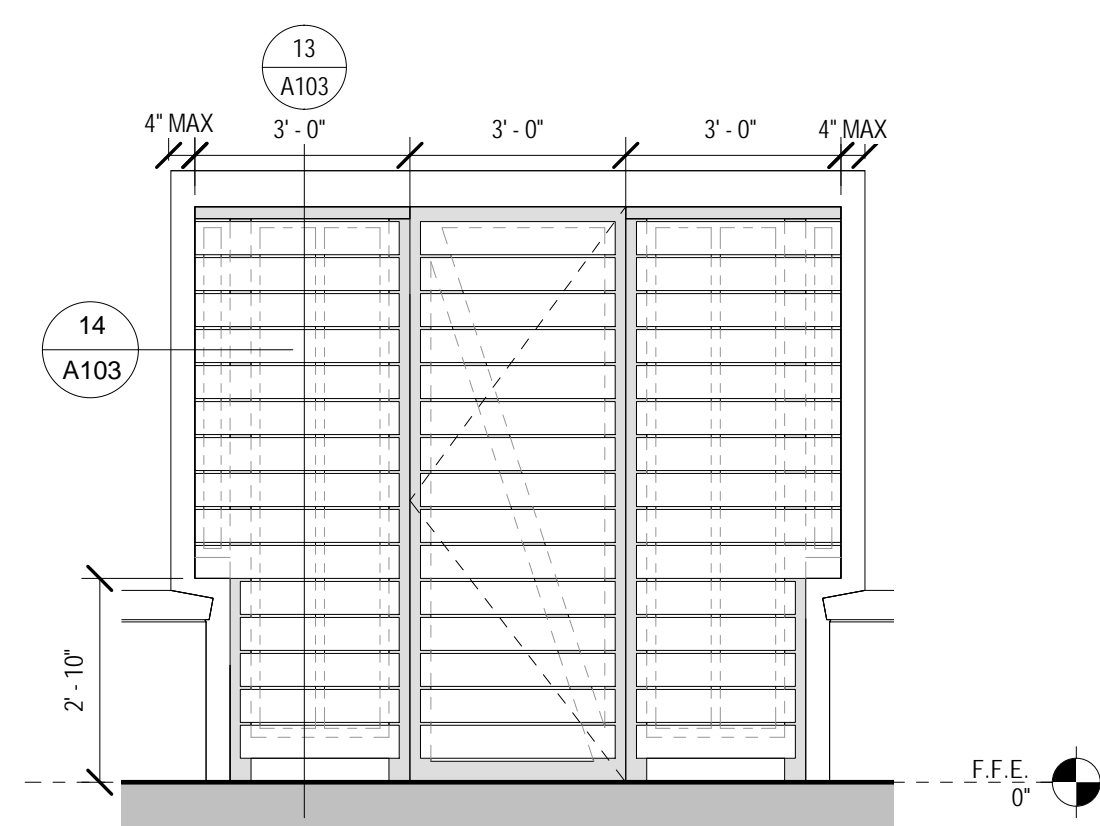
8 VESTIBULE ELEVATION - SMALL CONCESSION STAND - STEEL ELEVATION
3/8" = 1'-0"



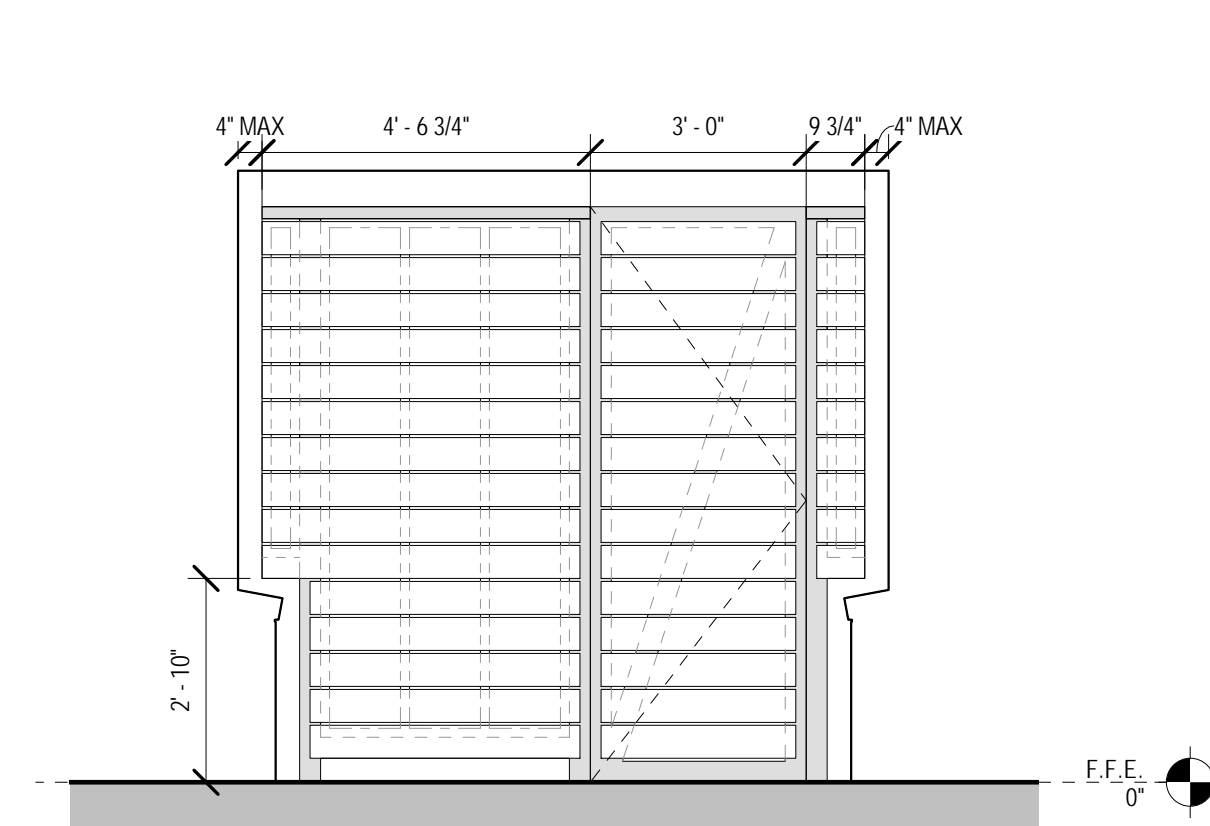
11 MECHANICAL ENCLOSURE ELEVATION - SMALL CONCESSION STAND - STEEL ELEVATION
3/8" = 1'-0"



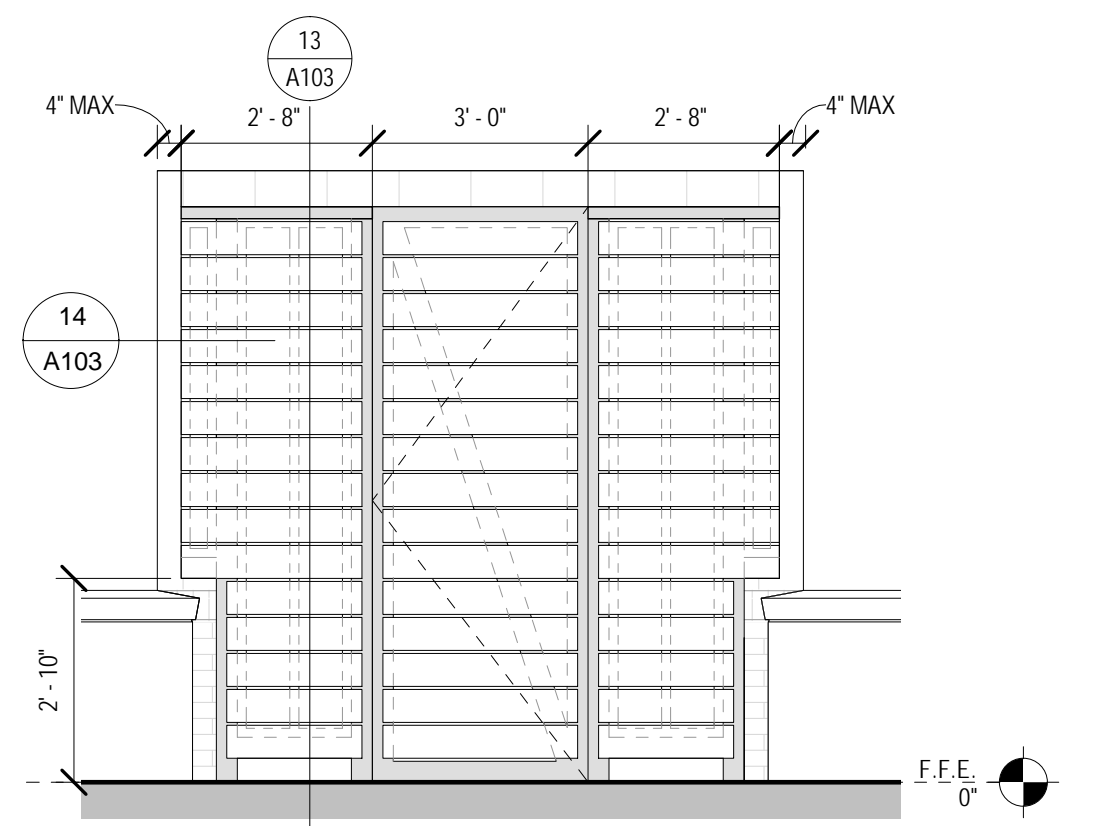
3 VESTIBULE ELEVATION - LARGE CONCESSION STAND
3/8" = 1'-0"



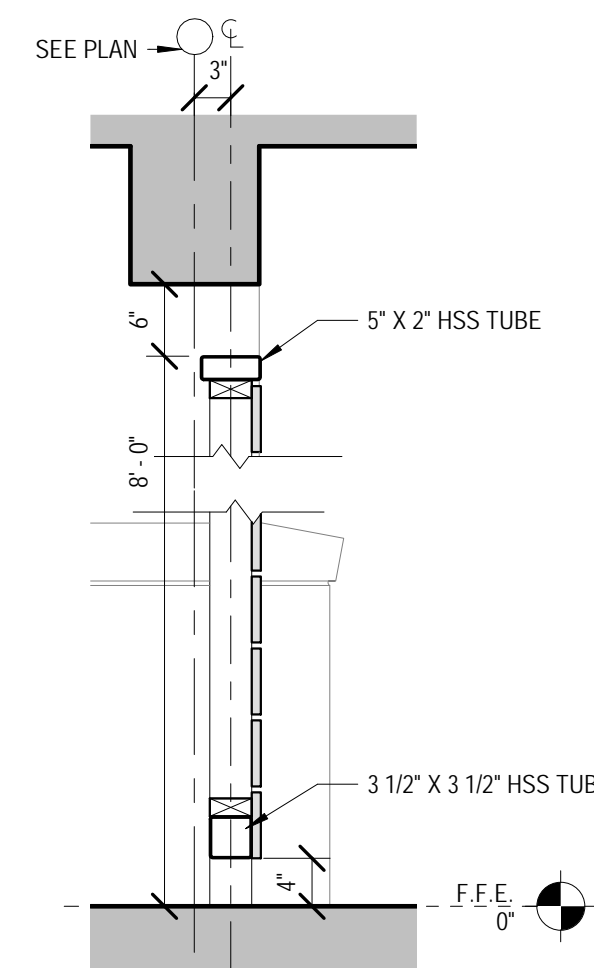
6 MECHANICAL ENCLOSURE ELEVATION - LARGE CONCESSION STAND
3/8" = 1'-0"



9 VESTIBULE ELEVATION - SMALL CONCESSION STAND
3/8" = 1'-0"

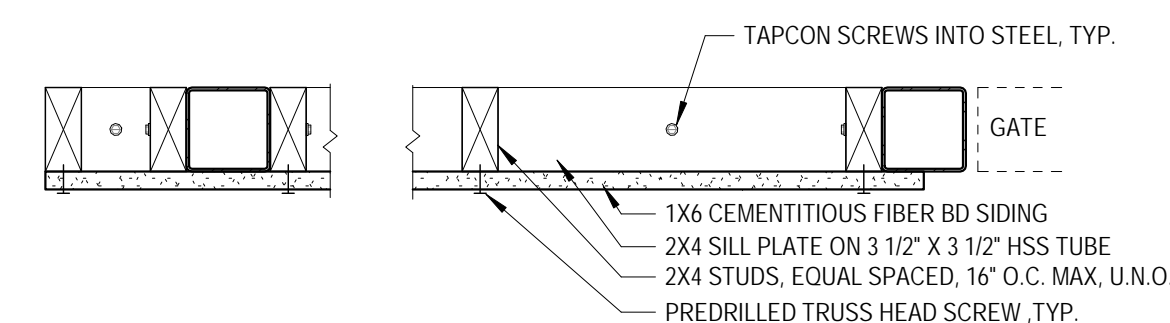


12 MECHANICAL ENCLOSURE ELEVATION - SMALL CONCESSION STAND
3/8" = 1'-0"

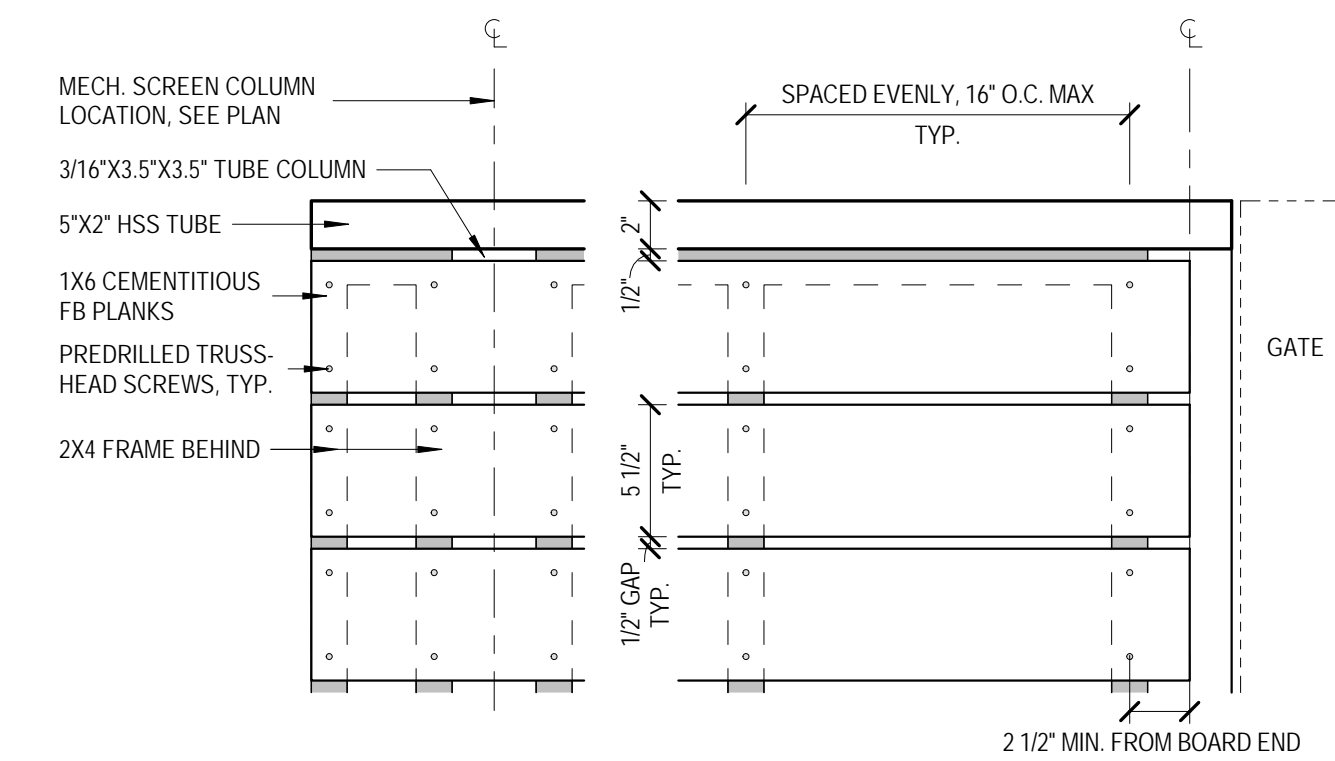


13 TYP. ENCLOSURE SCREEN SECTION
3/4" = 1'-0"

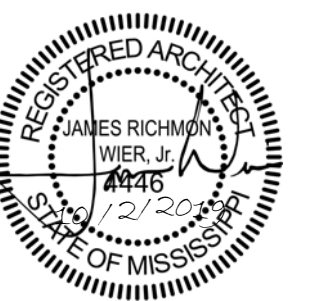
NOTE: PAINT ALL MEMBERS OF ALL MECHANICAL AND VESTIBULE ENCLOSURES



14 SCREEN WALL PLAN DETAIL
1 1/2" = 1'-0"



15 ENLARGED SCREEN ELEVATION DETAIL
1 1/2" = 1'-0"

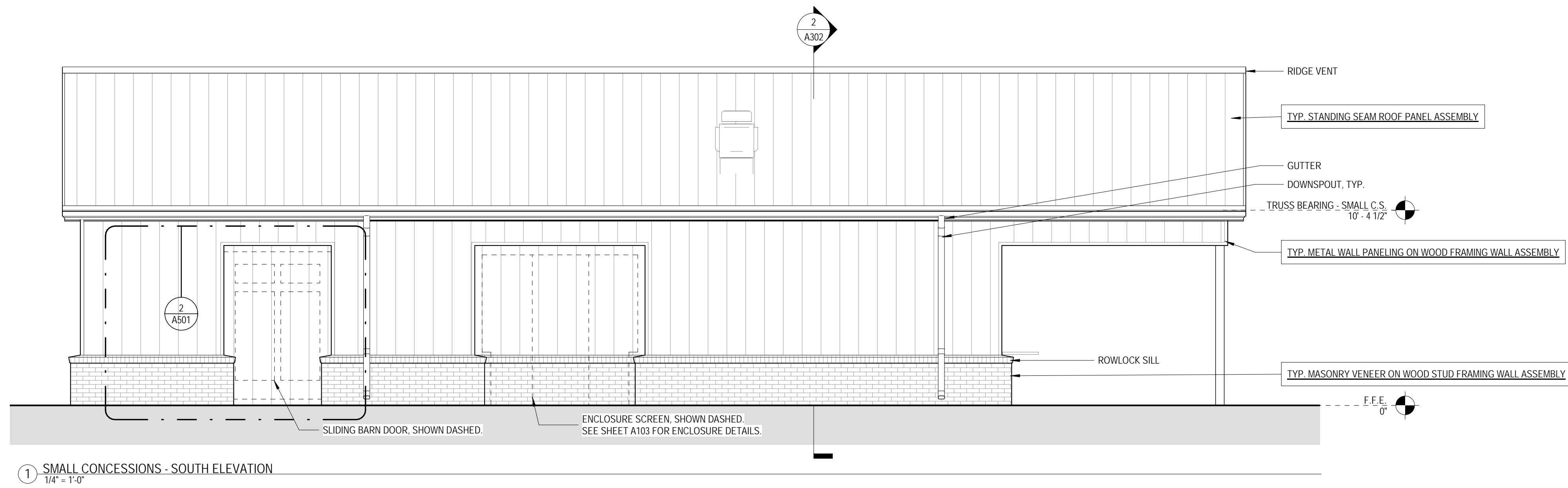


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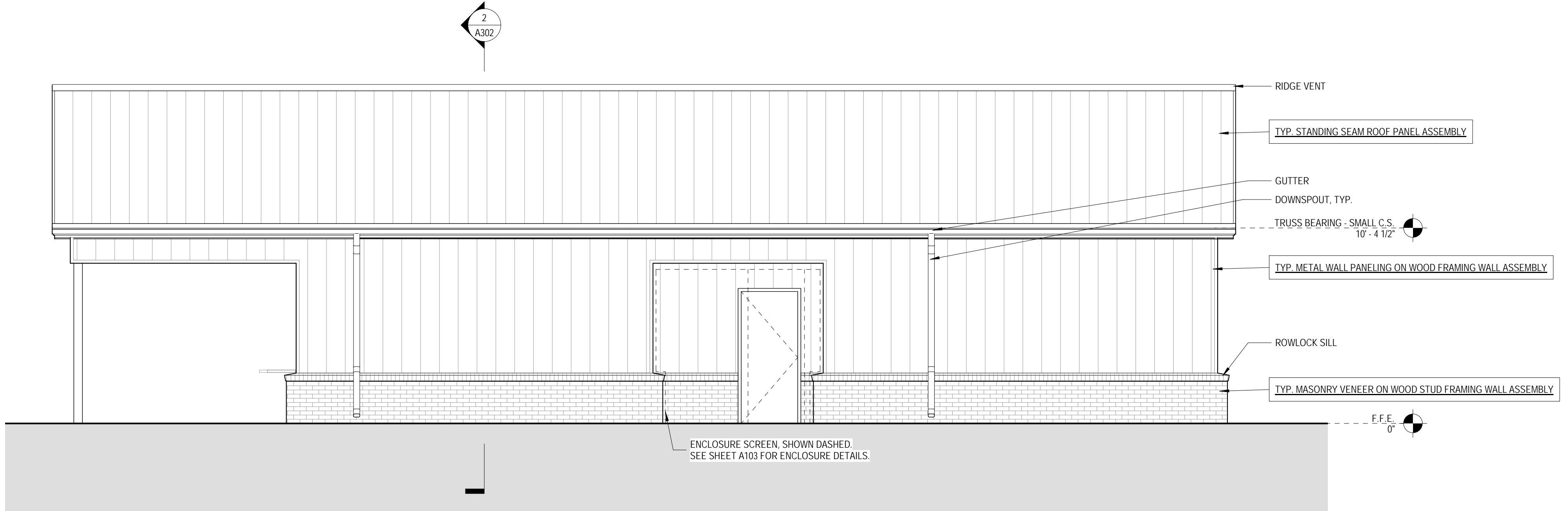
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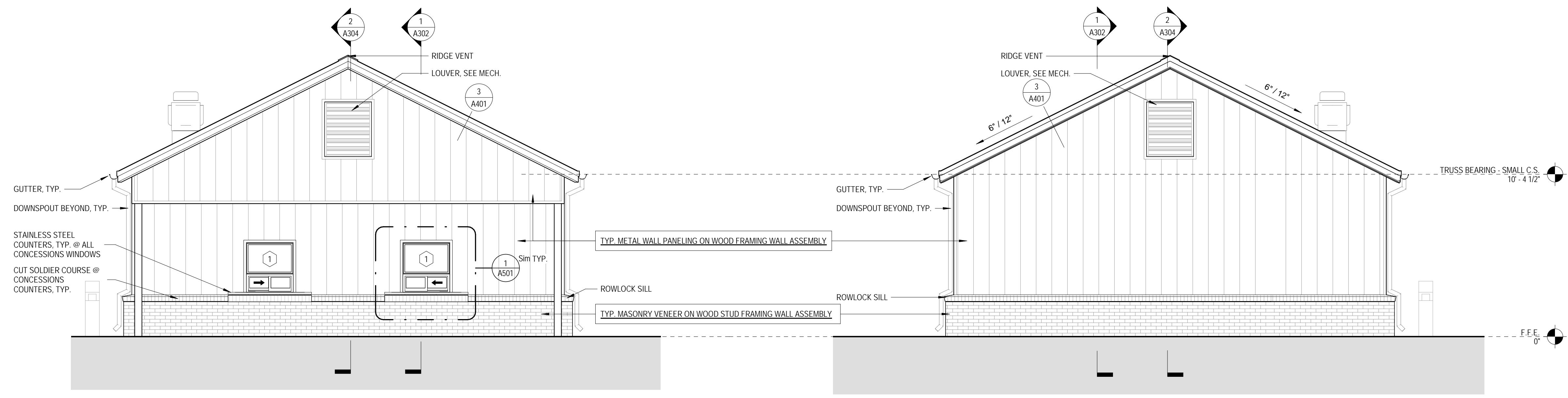
A103
VESTIBULE & MECH. ENCLOSURE DETAILS



1 SMALL CONCESSIONS - SOUTH ELEVATION
1/4" = 1'-0"

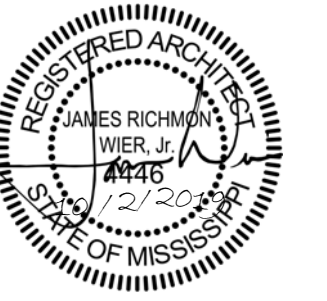


2 SMALL CONCESSIONS - NORTH ELEVATION
1/4" = 1'-0"



3 SMALL CONCESSIONS - EAST ELEVATION
1/4" = 1'-0"

4 SMALL CONCESSIONS - WEST ELEVATION
1/4" = 1'-0"



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- GENERAL ASSEMBLY NOTES:**
- SEE SPECS FOR MORE DETAILED REQUIREMENTS OF EA. ASSEMBLY ITEM.
 - COORD. FRAMING W/ STRUCT. DWGS.
 - COORD. SHEATHING W/ STRUCT. DWGS. TAPE ALL JOINTS & SEAL ALL PENETRATIONS.
 - COORD. MASONRY REINFORCING W/ STRUCT. DWGS.
 - SEE FINISH SCHED. FOR INTERIOR FINISH MATERIALS

ROOF ASSEMBLIES:

- TYP. STANDING SEAM ROOF PANEL ASSEMBLY:**
- ARCH. STANDING SEAM MTL. ROOF PANEL SYS.
 - CONT. SLIP-SHEET
 - CONT. WATERPROOFING
 - PLYWOOD DECK

WALL ASSEMBLIES:

- TYP. MASONRY VENEER ON WOOD STUD FRAMING WALL ASSEMBLY**
- MASONRY VENEER ANCHORED TO SHEATHING
 - AIR SPACE
 - CONT. WATERPROOFING
 - WOOD OR GYPSUM SHEATHING
 - WOOD STUD FRAMING FILLED W/ CONT. 6" BATT. INSUL.
 - GYPSUM BOARD
 - OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE

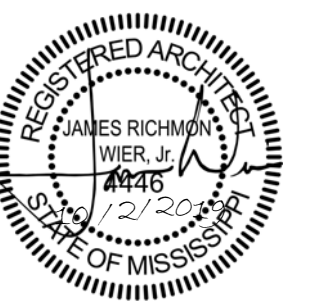
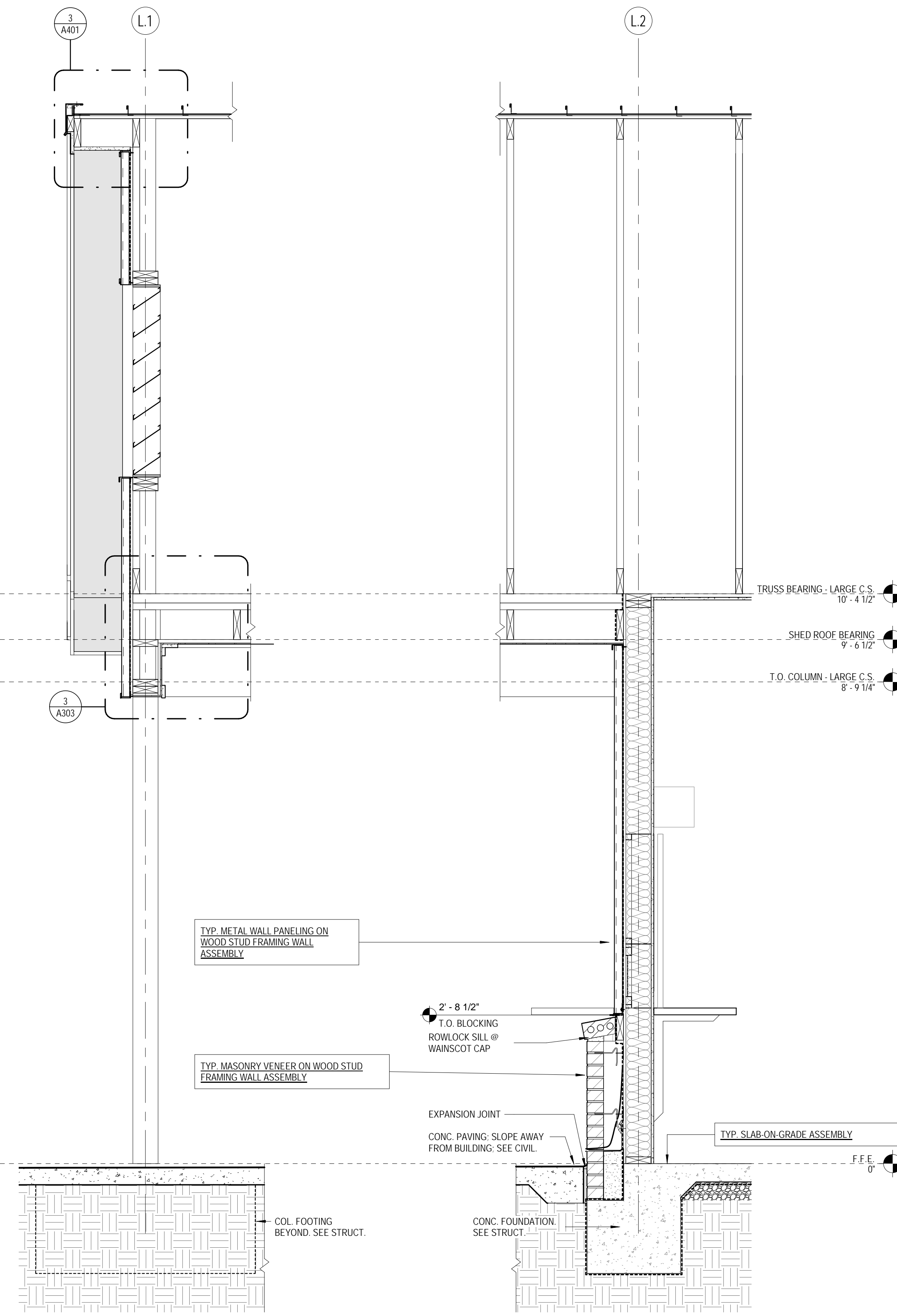
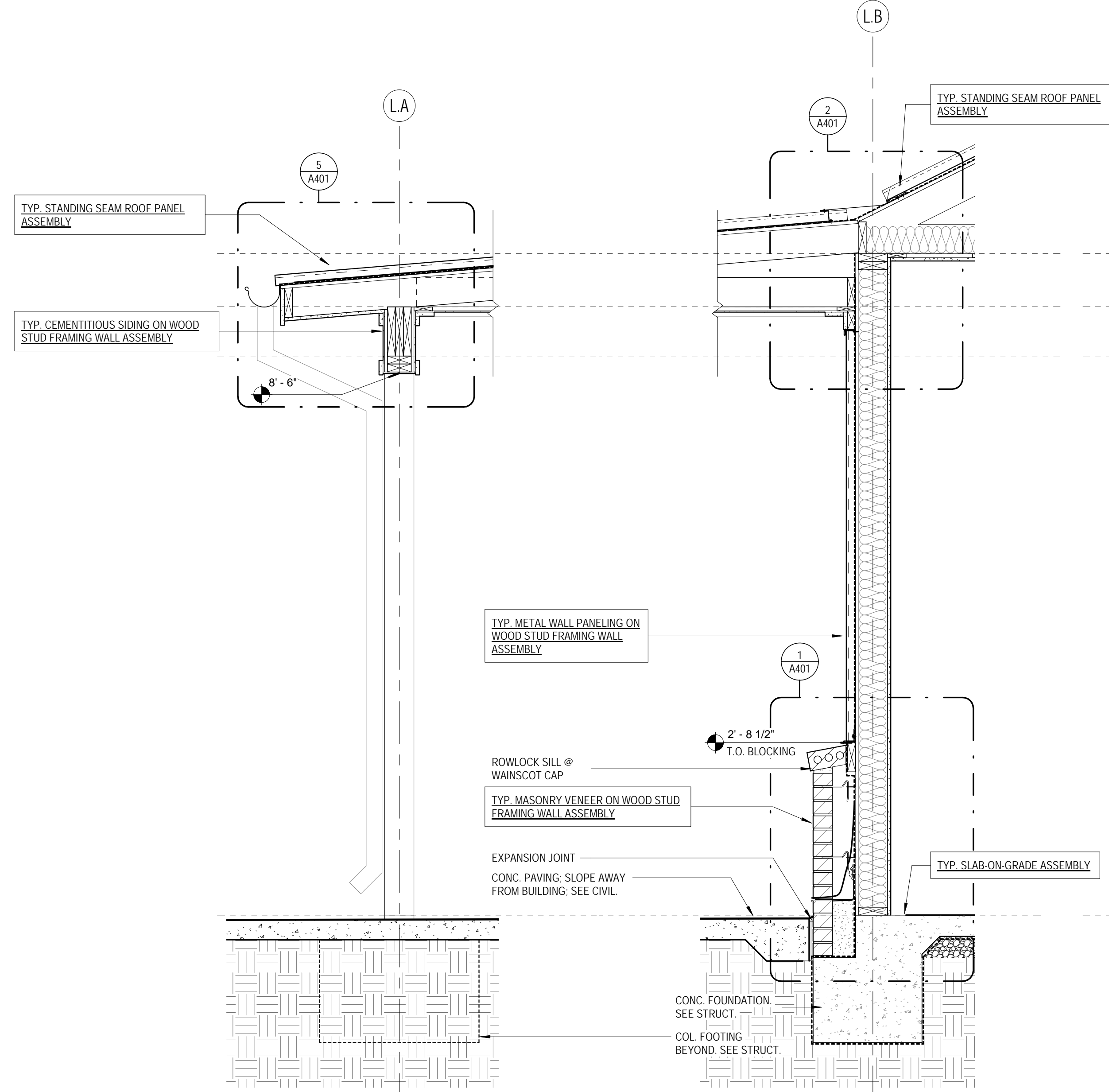
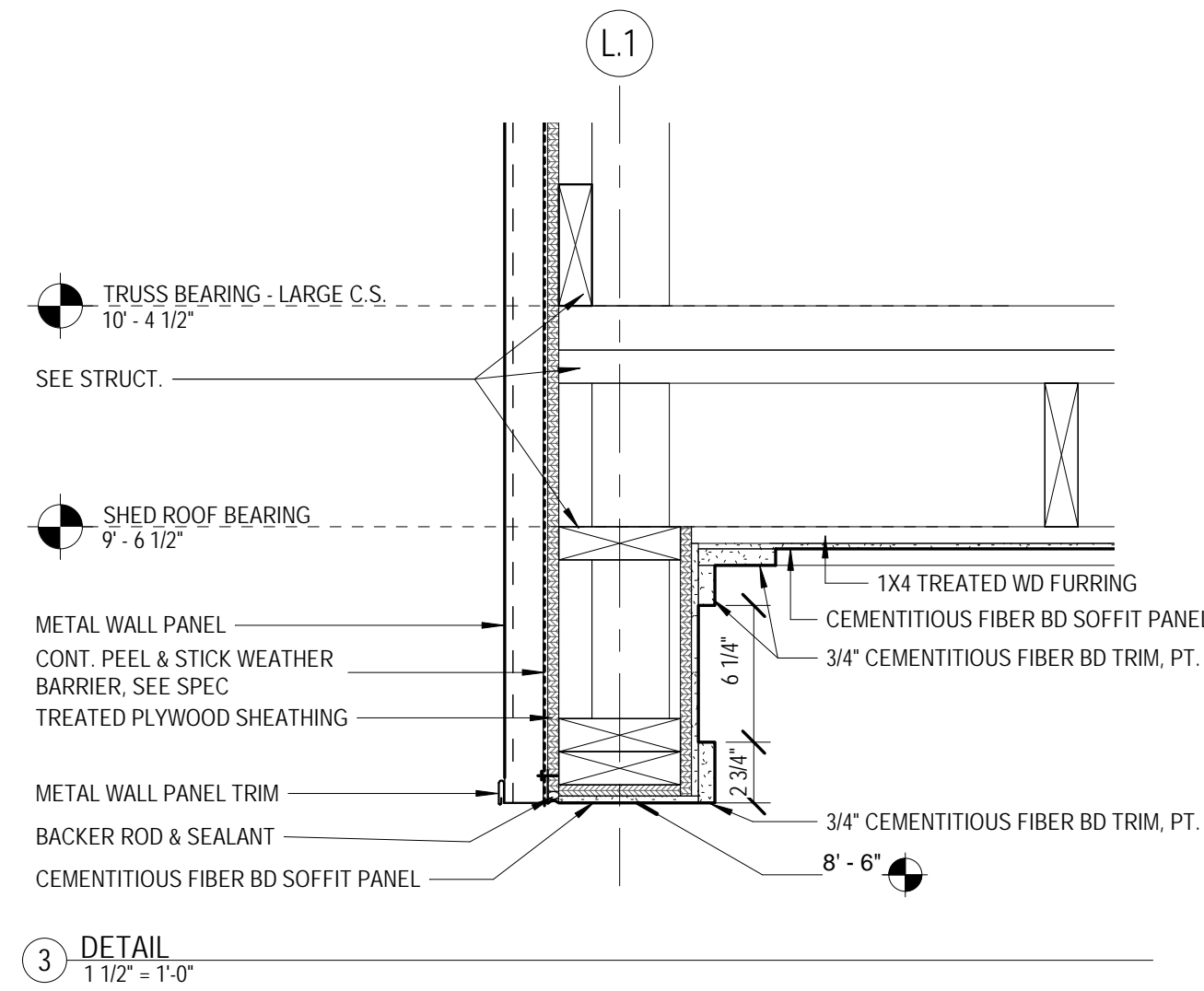
- TYP. CEMENTITIOUS SIDING ON WOOD FRAMING WALL ASSEMBLY**
- CEMENTITIOUS SIDING ANCHORED TO SHEATHING
 - CONT. WATERPROOFING
 - WOOD OR GYPSUM SHEATHING
 - WOOD STUD FRAMING FILLED W/ CONT. 6" BATT. INSUL.
 - GYPSUM BOARD
 - OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE

- TYP. METAL WALL PANELING ON WOOD FRAMING WALL ASSEMBLY**
- METAL WALL PANELING - SEE SPEC.
 - CONT. WATERPROOFING
 - WOOD OR GYPSUM SHEATHING
 - WOOD STUD FRAMING FILLED W/ CONT. 6" BATT. INSUL.
 - GYPSUM BOARD
 - OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE

FOUNDATION ASSEMBLIES:

- TYP. SLAB-ON-GRADE ASSEMBLY**
- CONCRETE FOUNDATION SYSTEM (SEE STRUCT.)
 - CONT. UNDER SLAB VAPOR BARRIER
 - GRAVEL FILL (SEE STRUCT. & CONFIRM W/ GEO-TECH.)
 - COMPACTED SUBGRADE

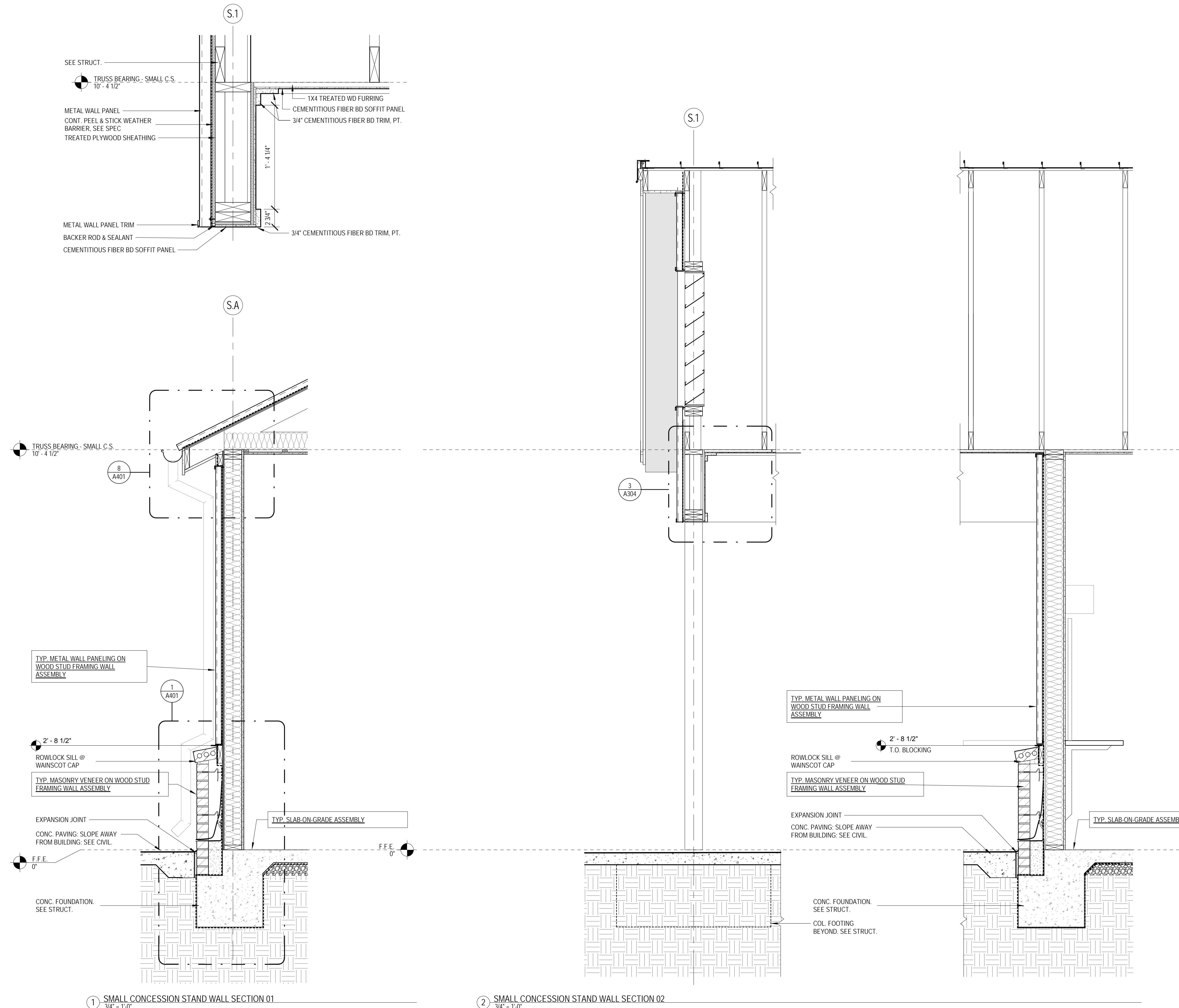
- TYP. FOUNDATION DRAINAGE SYSTEM ASSEMBLY**
- MTL. S.S. CAP FLASHING (SEAL TOP EDGE). ANCHOR @ 12" O.C. MAX., TYP.
 - CONT. WATERPROOFING
 - PROTECTION BOARD
 - DRAINAGE MAT
 - GRAVEL FILL ENCAPSULATED IN FILTER FABRIC
 - PERF. FOUNDATION DRAIN WRAPPED IN FILTER FABRIC (COORD. W/ CIVIL & PLUMB. DWGS.)



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GENERAL ASSEMBLY NOTES:
 1. SEE SPECS FOR MORE DETAILED REQUIREMENTS OF EA. ASSEMBLY ITEM.
 TYP.
 2. COORD. FRAMING W/ STRUCT. DWGS.
 3. COORD. SHEATHING W/ STRUCT. DWGS. TAPE ALL JOINTS & SEAL ALL PENETRATIONS.
 4. COORD. MASONRY REINFORCING W/ STRUCT. DWGS.
 5. SEE FINISH SCHED. FOR INTERIOR FINISH MATERIALS

ROOF ASSEMBLIES:

TYP. STANDING SEAM ROOF PANEL ASSEMBLY:
 - ARCH. STANDING SEAM MTL. ROOF PANEL SYS.
 - CONT. SLIP-SHEET
 - CONT. WATERPROOFING
 - PLYWOOD DECK

WALL ASSEMBLIES:

TYP. MASONRY VENEER ON WOOD STUD FRAMING WALL ASSEMBLY
 - MASONRY VENEER ANCHORED TO SHEATHING
 - AIR SPACE
 - CONT. WATERPROOFING
 - WOOD OR GYPSUM SHEATHING
 - WOOD STUD FRAMING FILLED W/ CONT. 6" BATT. INSUL.
 - GYPSUM BOARD
 - OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE

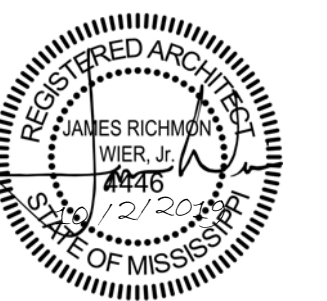
TYP. CEMENTITIOUS SIDING ON WOOD FRAMING WALL ASSEMBLY
 - CEMENTITIOUS SIDING ANCHORED TO SHEATHING
 - CONT. WATERPROOFING
 - WOOD OR GYPSUM SHEATHING
 - WOOD STUD FRAMING FILLED W/ CONT. 6" BATT. INSUL.
 - GYPSUM BOARD
 - OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE

TYP. METAL WALL PANELING ON WOOD FRAMING WALL ASSEMBLY
 - METAL WALL PANELING: SEE SPEC.
 - CONT. WATERPROOFING
 - WOOD OR GYPSUM SHEATHING
 - WOOD STUD FRAMING FILLED W/ CONT. 6" BATT. INSUL.
 - GYPSUM BOARD
 - OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE

FOUNDATION ASSEMBLIES:

TYP. SLAB-ON-GRADE ASSEMBLY
 - CONCRETE FOUNDATION SYSTEM (SEE STRUCT.)
 - CONT. UNDER SLAB VAPOR BARRIER
 - GRAVEL FILL (SEE STRUCT. & CONFIRM W/ GEO-TECH.)
 - COMPACTED SUBGRADE

TYP. FOUNDATION DRAINAGE SYSTEM ASSEMBLY
 - MTL. S.S. CAP FLASHING (SEAL TOP EDGE). ANCHOR @ 12" O.C. MAX., TYP.
 - CONT. WATERPROOFING
 - PROTECTION BOARD
 - DRAINAGE MAT
 - GRAVEL FILL ENCAPSULATED IN FILTER FABRIC
 - PERF. FOUNDATION DRAIN WRAPPED IN FILTER FABRIC (COORD. W/ CIVIL & PLUMB. DWGS.)



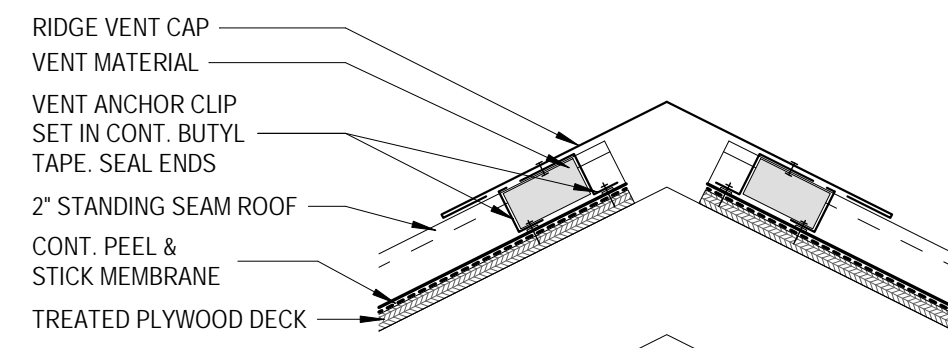
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1 SMALL CONCESSION STAND WALL SECTION 01
3/4" = 1'-0"

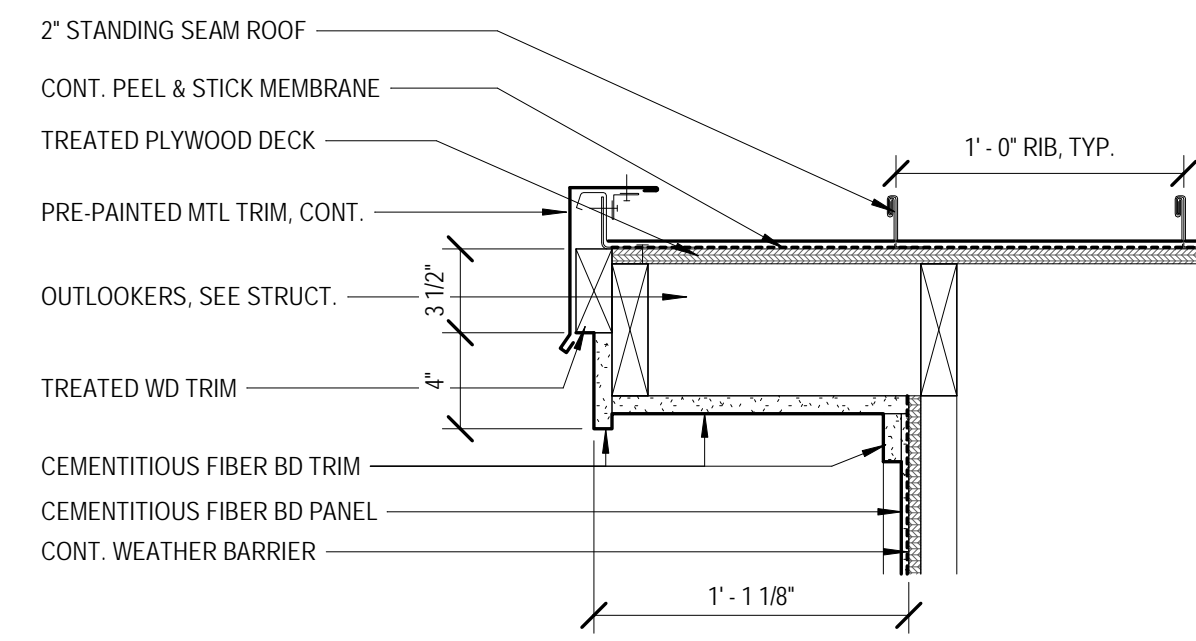
2 SMALL CONCESSION STAND WALL SECTION 02
3/4" = 1'-0"



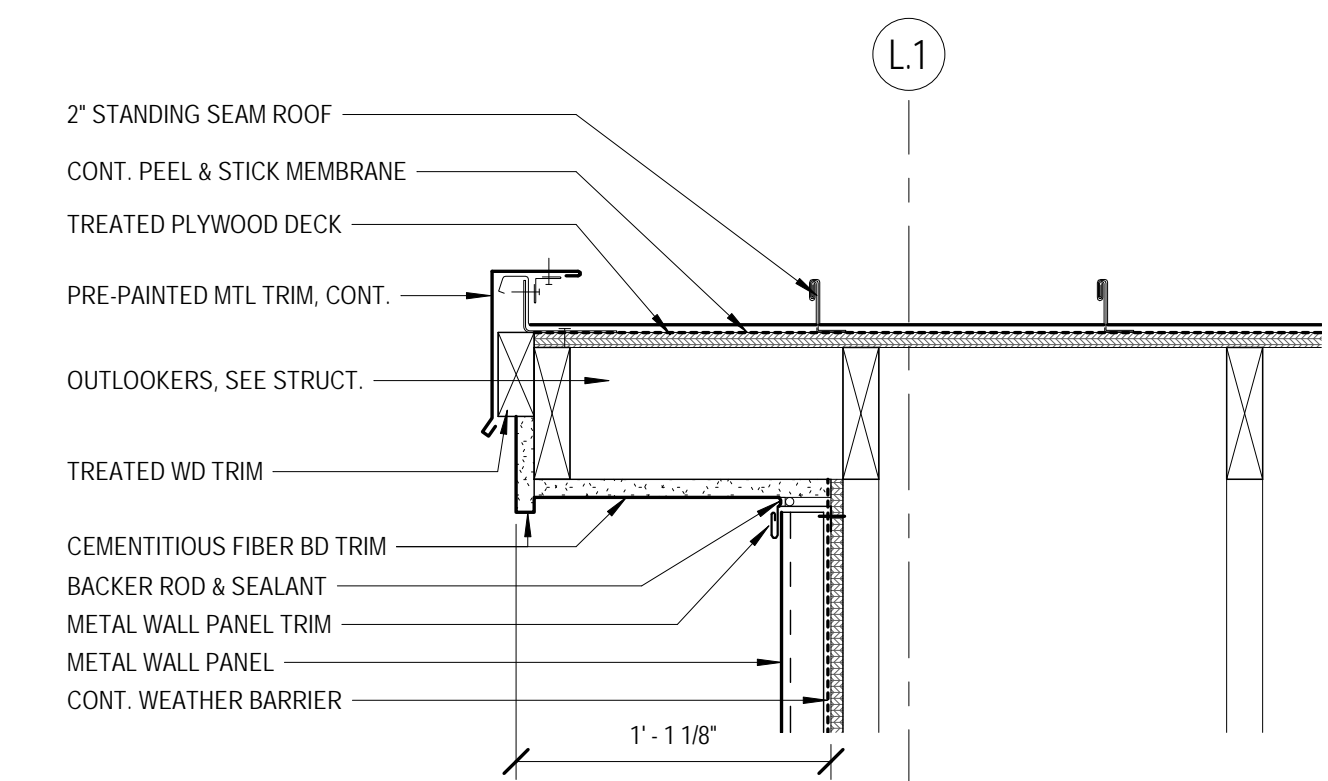
9 TYP. RIDGE VENT DETAIL
1 1/2" = 1'-0"

NOTE: CAULK ALL GAPS, CORNERS, & SEAMS IN CEMENTITIOUS FIBER BOARD TRIM INSTALLATION WITH PAINTABLE CAULK PRIOR TO PAINTING.

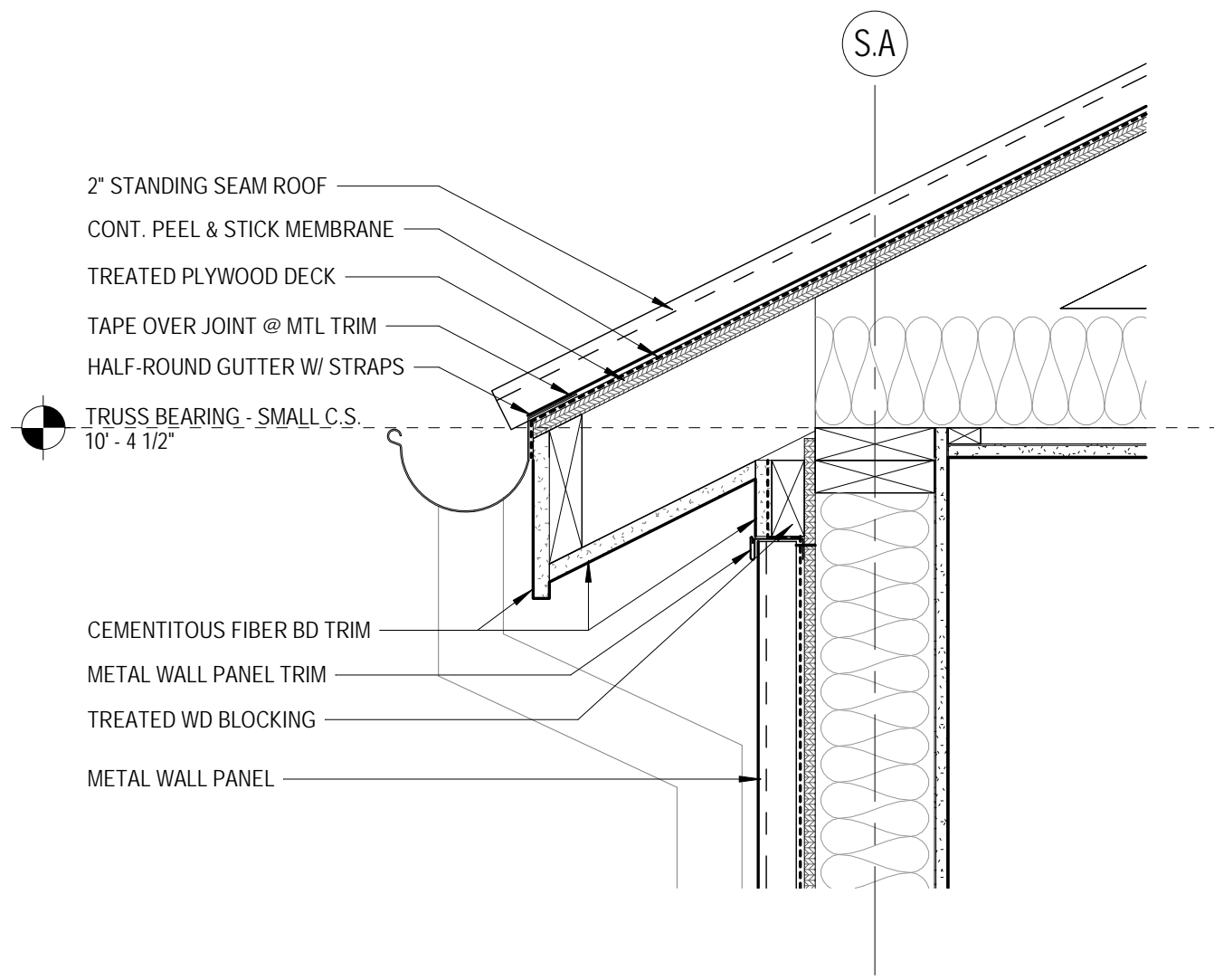
ALL CEMENTITIOUS FIBER BD. TRIM AND BOARD TO BE PAINTED. ARCHITECT TO PROVIDE COLOR AND FINISH.



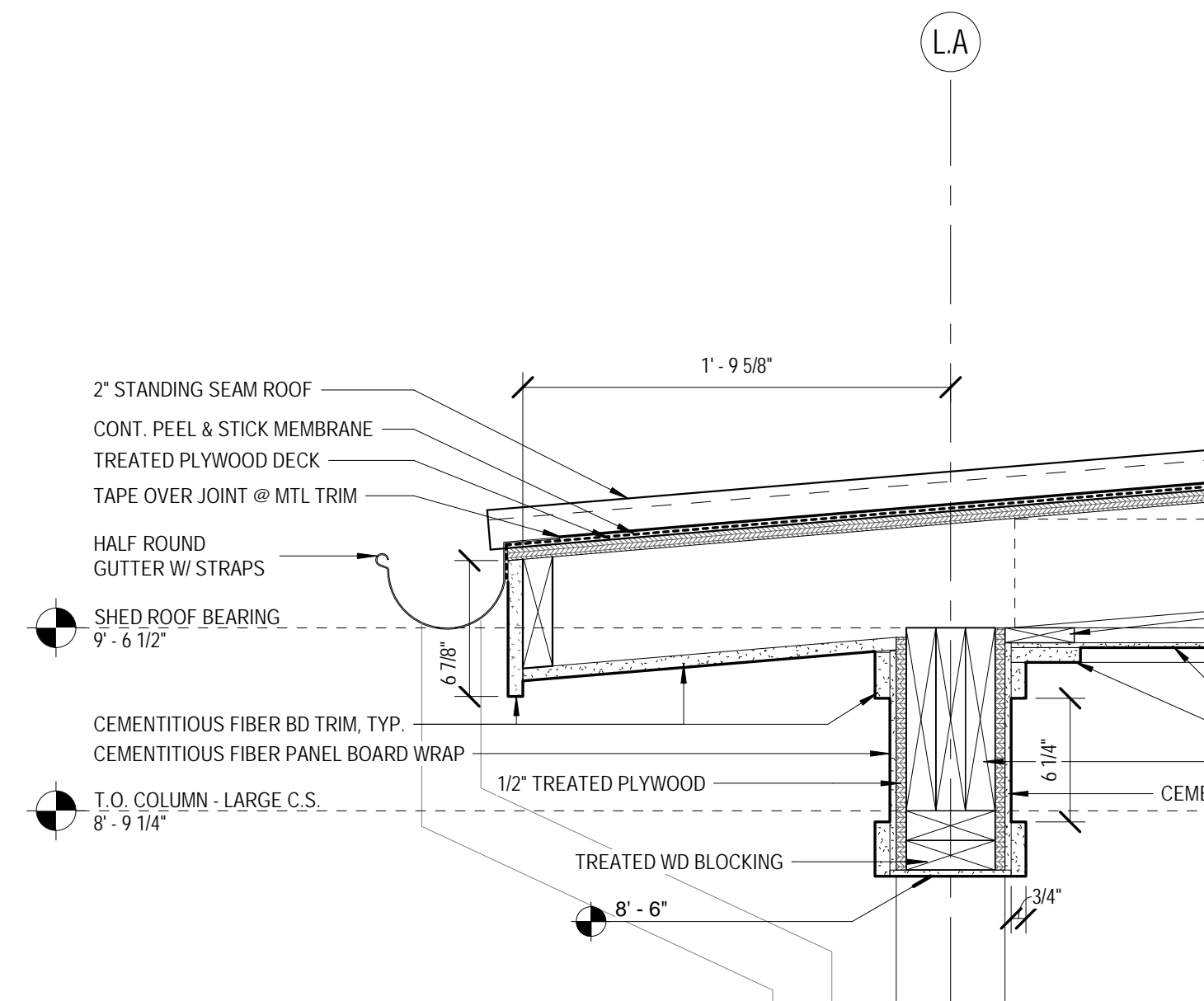
6 ROOF RAKE - CEMENTITIOUS FIBER BOARD
1 1/2" = 1'-0"



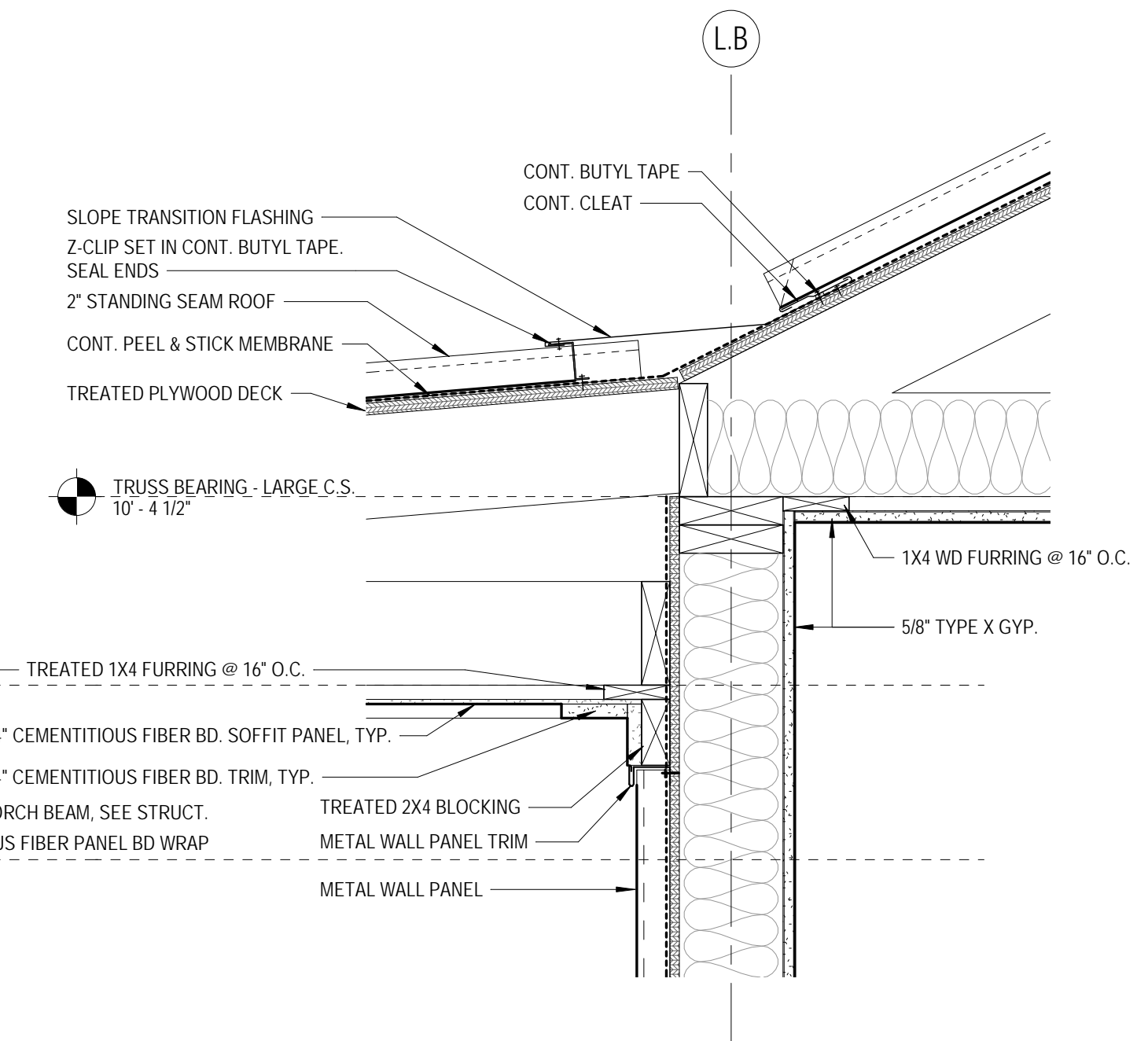
3 TYP. RAKE DETAIL - METAL WALL PANEL
1 1/2" = 1'-0"



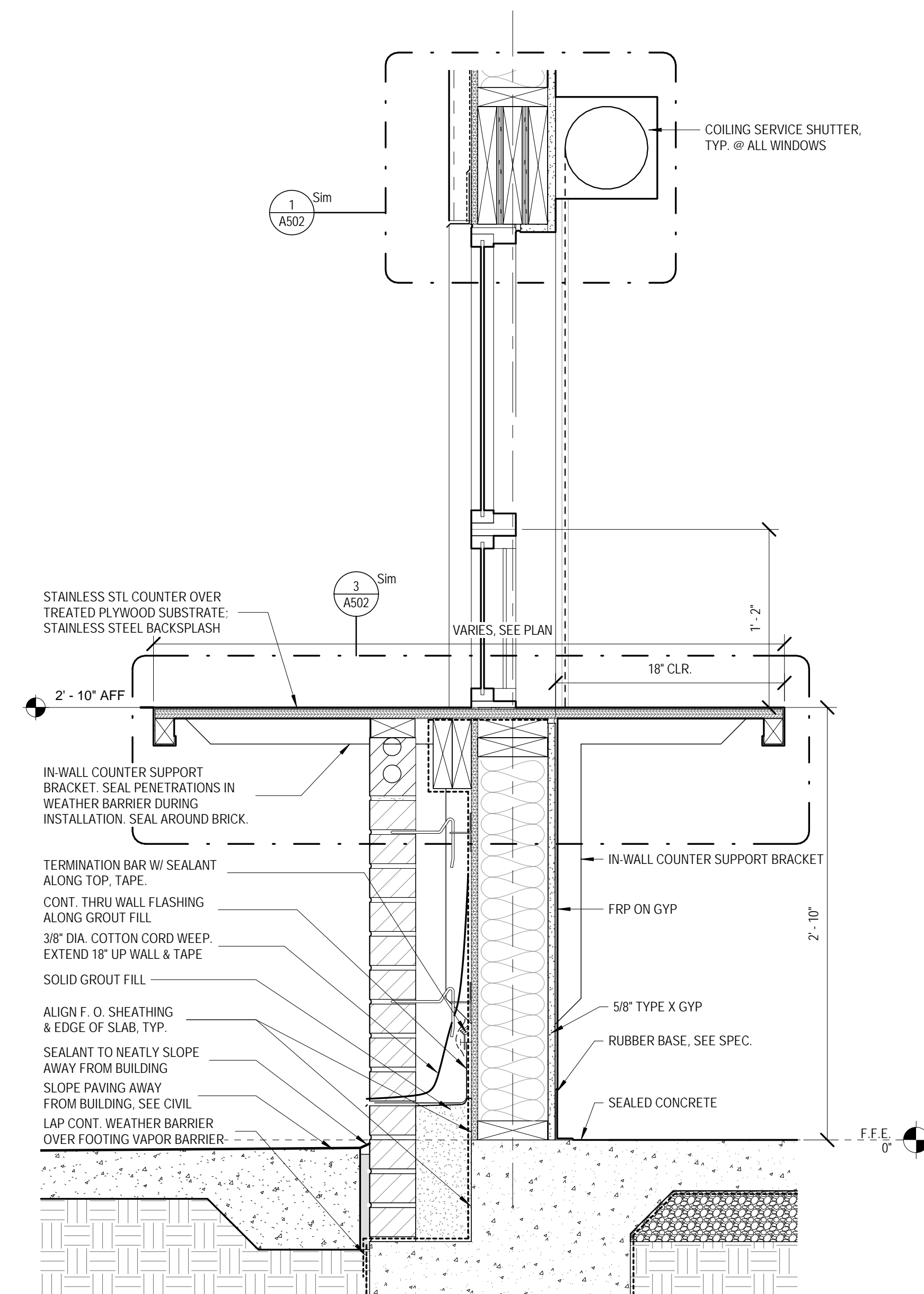
8 SMALL CONCESSION STAND EAVE DETAIL
1 1/2" = 1'-0"



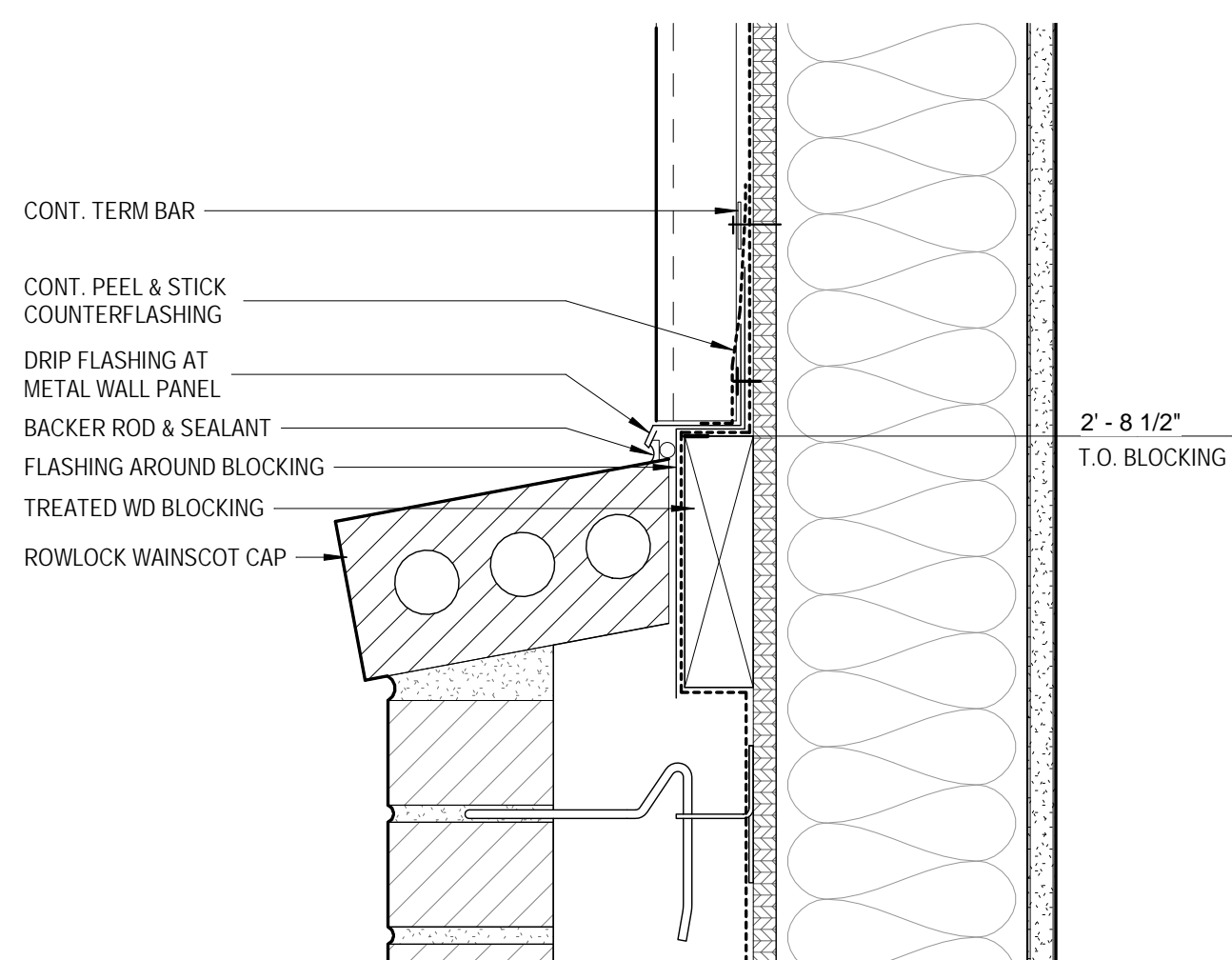
5 LARGE CONCESSION STAND EAVE DETAIL
1 1/2" = 1'-0"



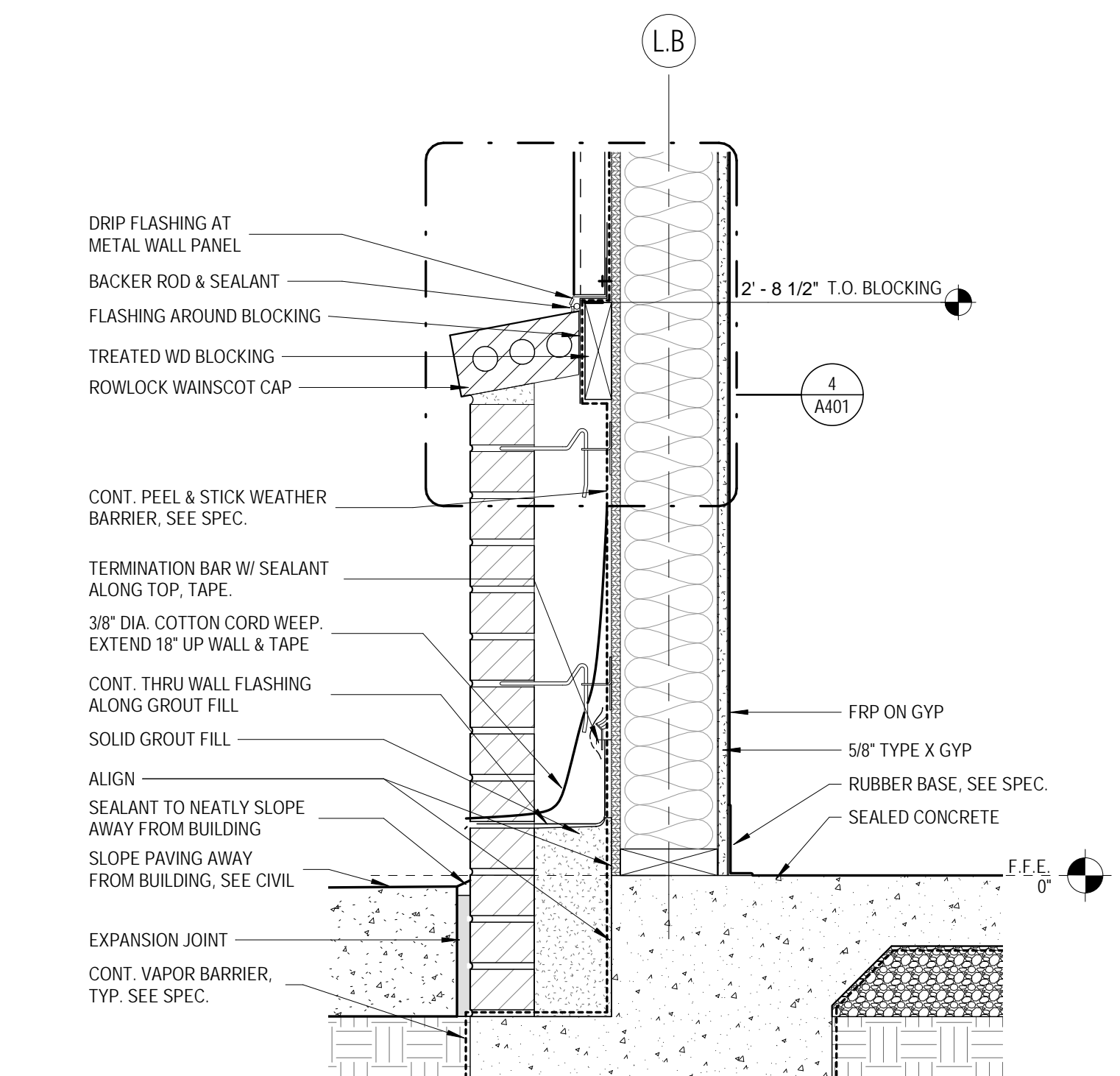
2 LARGE CONCESSION STAND SLOPE TRANSITION DETAIL
1 1/2" = 1'-0"



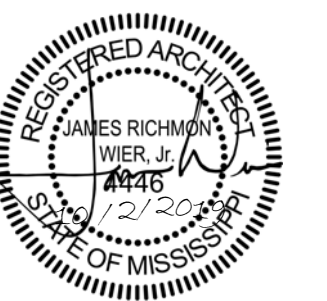
7 TYP. WINDOW AND COUNTER DETAIL
1 1/2" = 1'-0"



4 ENLARGED WAINSCOT DETAIL
1 1/2" = 1'-0"



1 TYP. WAINSCOT DETAIL
1 1/2" = 1'-0"



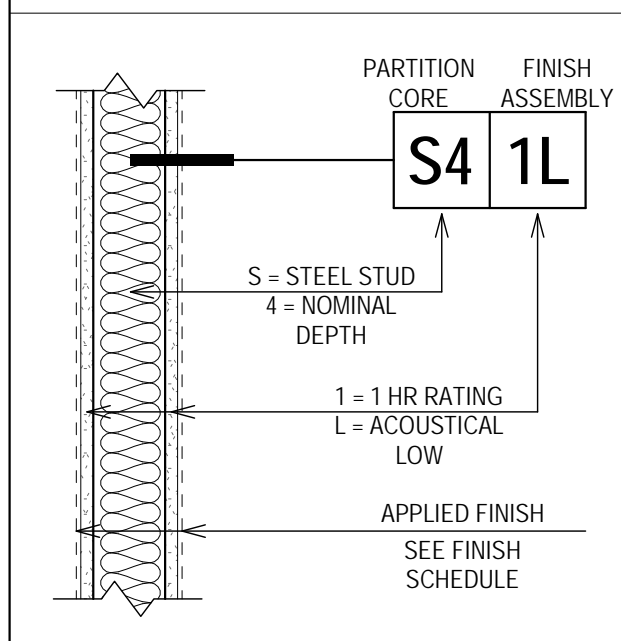
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NO. DESCRIPTION DATE

A401
DETAILS

PARTITION SCHEDULE

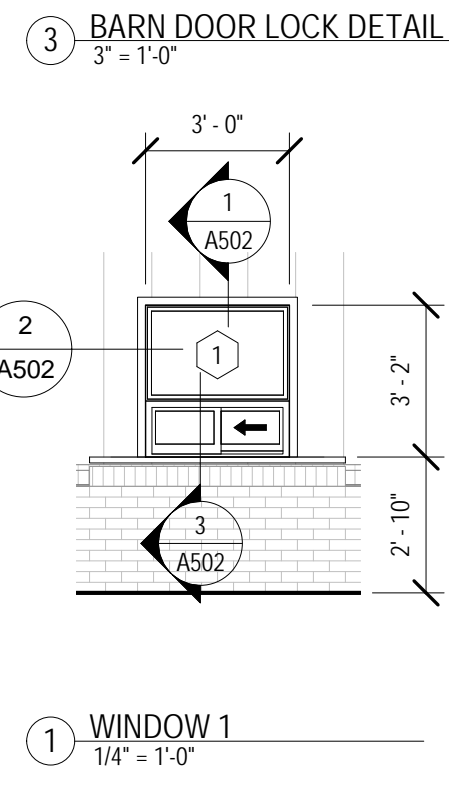
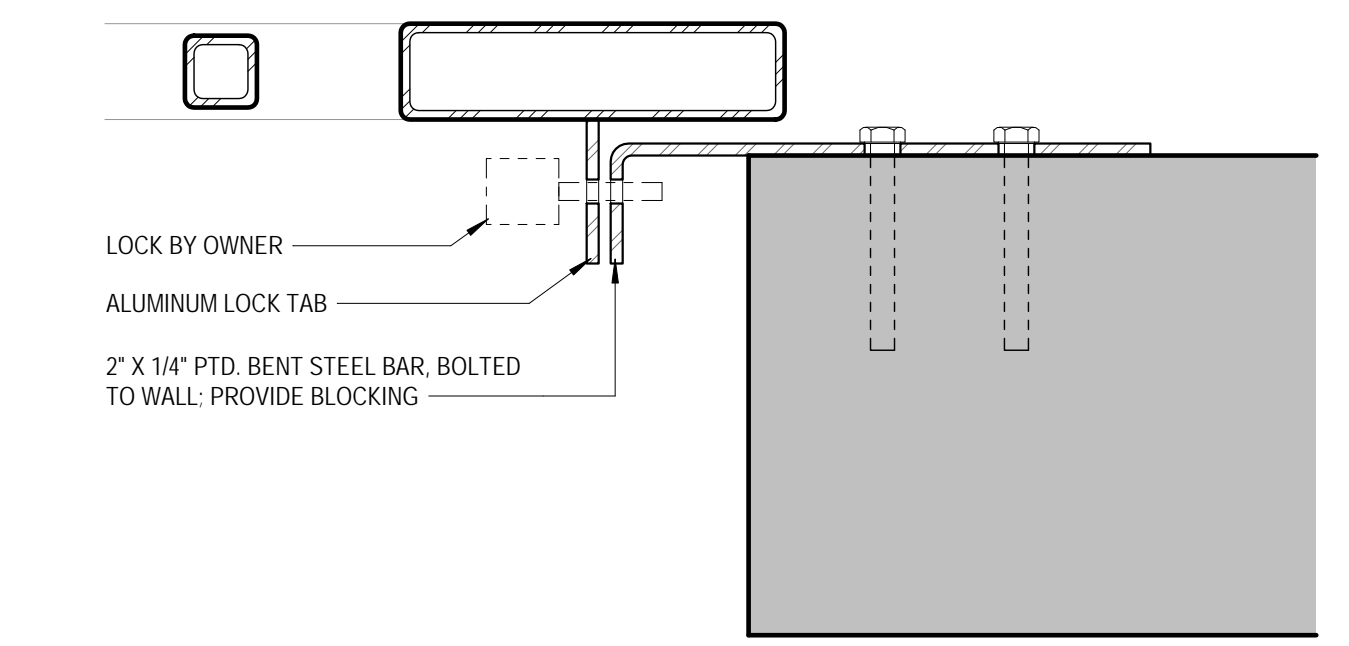
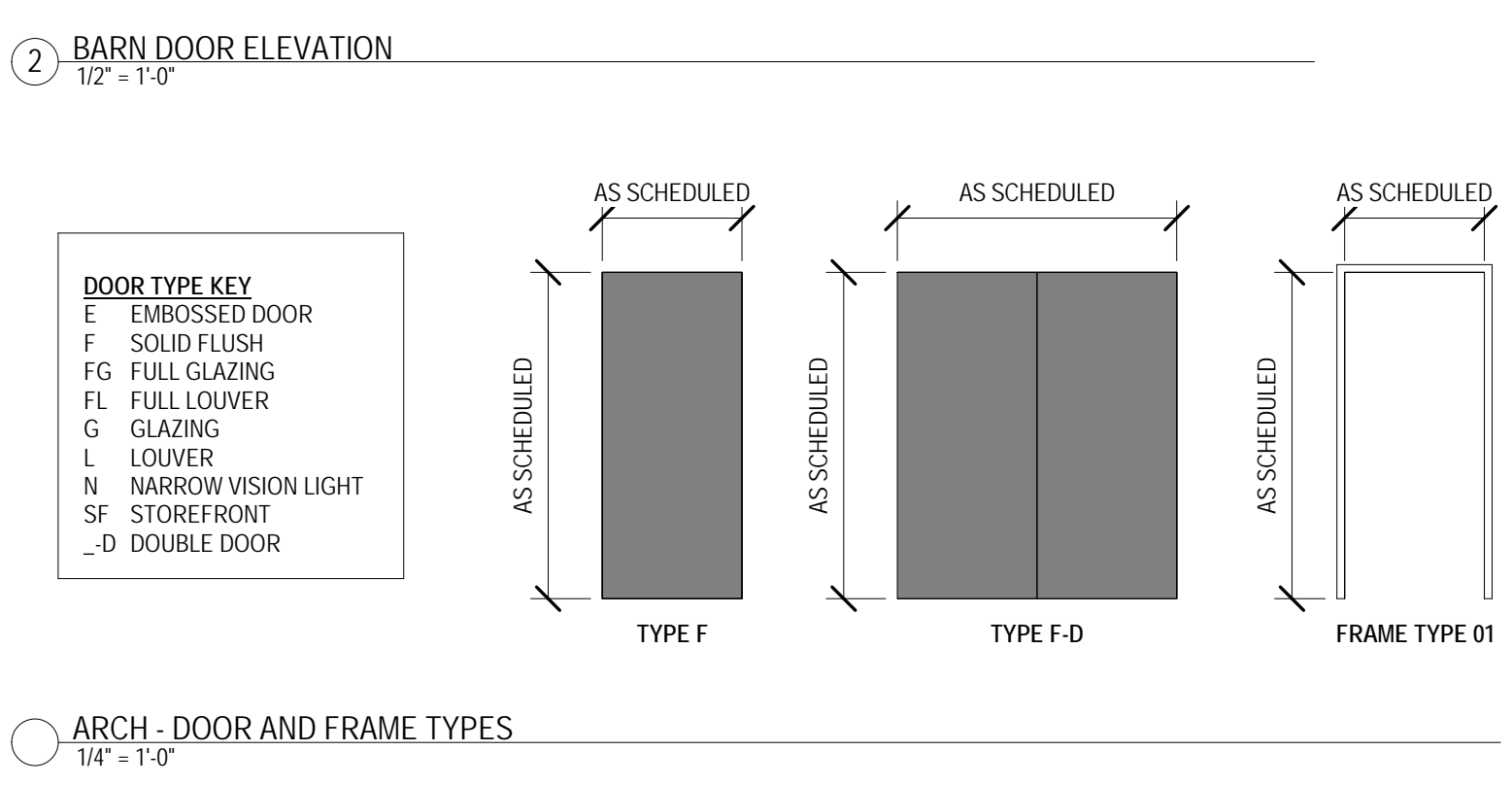
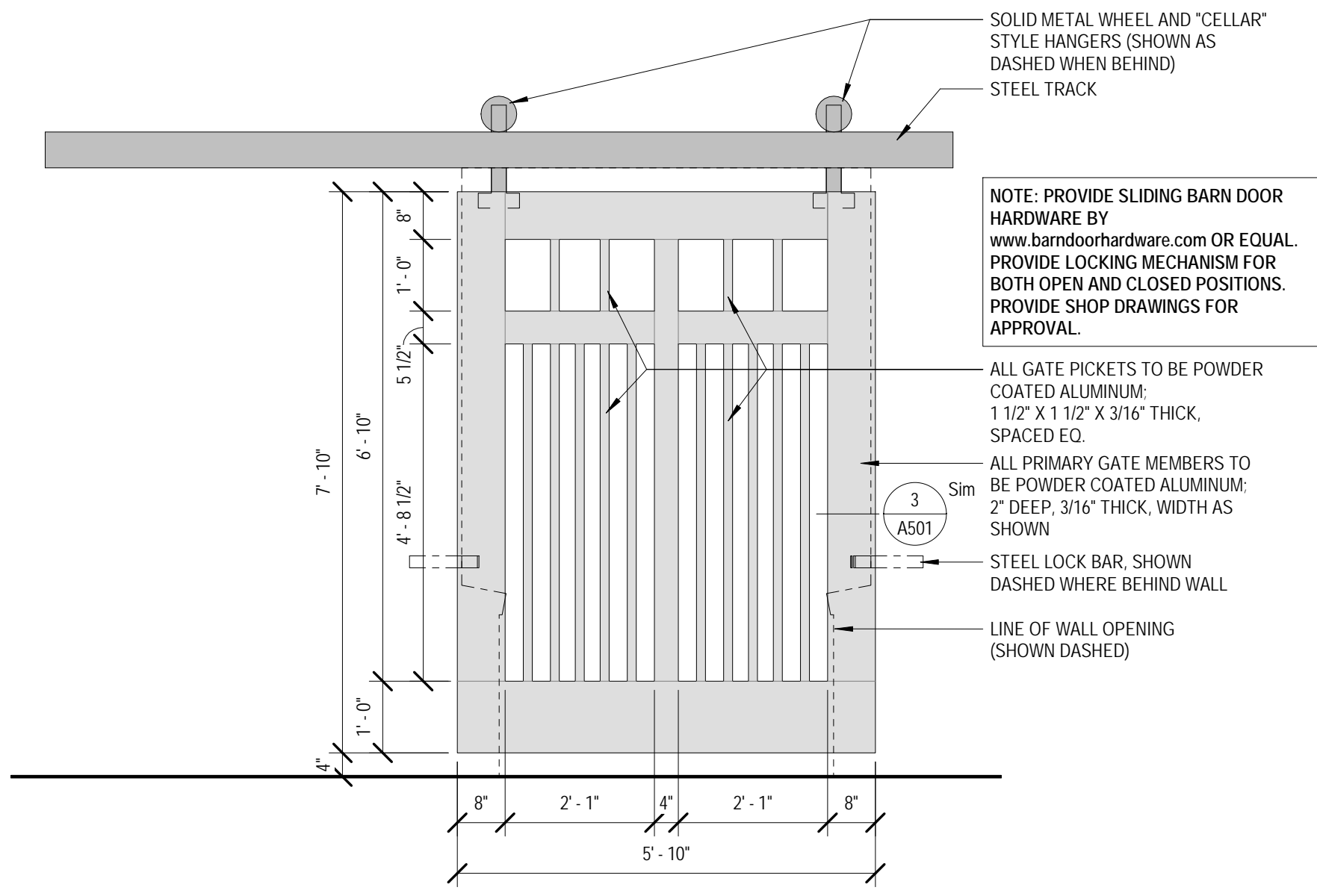


PARTITION CORE	FINISH ASSEMBLY	FIRE RATED CRITERIA				ADDITIONAL PERFORMANCE CRITERIA		
		N = NON-RATED	S = SMOKE PARTITION	1 = 1 HR RATED	2 = 2 HR RATED	F = FURRED OUT	L = ACOUSTICAL LOW	H = ACOUSTICAL HIGH
CORE MAT. C = C.I.P. CONC. SEE STRUCT. DWGS. FOR DTL'D. REQ. M = CMU (CONC. MAS. UNITS) SEE STRUCT. DWGS. FOR DTL'D. REQ.	NOM. WIDTH 6 = 6" C.I.P. 8 = 8" C.I.P. 4 = 4" CMU 6 = 6" CMU 8 = 8" CMU	N/A	N/A	N/A	N/A	ADD 5/8" GYP. BD. 1 SIDE ON 7/8" MTL. FURRING	N/A	N/A
S = STEEL STUD FRAMING FRAMING EXTENDS TO UNDERSIDE OF DECK U.N.O.	0 = 7/8" FURRING 1 = 1 1/2" STUD 2 = 2 1/2" STUD 4 = 3 5/8" STUD 6 = 6" STUD	N/A	N/A	N/A	N/A	ADD 5/8" GYP. BD. 1 SIDE ON 7/8" MTL. FURRING	ADD GROUT TO CELLS	STC 51 STC 55
W = WOOD STUD FRAMING FRAMING EXTENDS TO UNDERSIDE OF DECK U.N.O.	0 = 1/2" FURRING 4 = 3 1/2" STUD 6 = 5 1/2" STUD	N/A	N/A	N/A	N/A	N/A	N/A	N/A
X = SPECIAL CONSTRUCTION	2 = 2 1/2" C-H STUD SHAFT WALL 4 = 4" C-H STUD SHAFT WALL 6 = 6" C-H STUD SHAFT WALL	N/A	N/A	N/A	N/A	N/A	N/A	N/A

FINISH LEGEND									
CATEGORY	FINISH CODE	TYPE	MANUF.	NAME	PATTERN	COLOR	SIZE	INSTALLATION METHOD	COMMENTS
CEILING FINISH	GYP	GYP SUM WALLBOARD CEILING, PAINTED	BENJAMIN MOORE	N/A	N/A	TBD	N/A		FINISH TO BE FLAT
COUNTERTOP	SST-1	COUNTERTOP, STAINLESS STEEL	-	-	-	-	-	-	SEE SPEC
FLOOR FINISH	SC	SEALED CONCRETE	TBD				TBD		
MILLWORK	PLAM-1	MILLWORK, PLASTIC LAMINATE - COLOR 1	TBD				TBD		
MISCELLANEOUS	TP-1	TOILET PARTITION	ASI GLOBAL PARTITIONS	ACCURATE PARTITIONS	PEBBLE GRAIN	TBD	N/A	FLOOR ANCHORED, OVERHEAD BRACED	
WALL BASE	RB-1	RUBBER BASE, COLOR 1	TARKETT	BASEWORKS THERMOSET RUBBER	N/A	TBD	4" H		USE COORDINATING INSIDE/OUTSIDE TRIM PIECES WHERE NEEDED
WALL FINISH	FRP	FIBER REINFORCED PANELING	MARLITE	STANDARD FRP	SMOOTH FINISH	TBD	4'X8'X3/32"		USE COORDINATING INSIDE/OUTSIDE TRIM PIECES WHERE NEEDED
WALL FINISH	P-1	WALL PAINT - MAIN WALL COLOR	BENJAMIN MOORE	N/A	N/A	TBD	N/A		FINISH TO BE SEMI-GLOSS
WALL FINISH	P-2	WALL PAINT - ACCENT COLOR	BENJAMIN MOORE	N/A	N/A	TBD	N/A		FINISH TO BE EPOXY

FINISH SCHEDULE								
ROOM #	ROOM NAME	FLOOR FIN.	BASE	WALL FIN.	CEILING FIN.	MILLWORK	COUNTER TOP	COMMENTS
L101	CONCESSIONS	SC	RB-1	FRP	GYP		SST-1	FRP TO BE LOCATED ON ALL WALLS, FULL-HEIGHT
L102	JAN	SC	RB-1	P-1	GYP			
L103	PANTRY	SC	RB-1	P-1	GYP			
L104	UMPIRE ROOM	SC	RB-1	P-1	GYP			
L105	ELEC	SC	RB-1	P-1	GYP			
L106	UMPIRE RESTROOM	SC	RB-1	P-1	GYP			
L107	FIELD STORAGE	SC	RB-1	P-1	GYP			
L108	MEN RR	SC	RB-1	P-2	GYP			TP-1, FLOOR MTD., CLG. BRACED, FRP TO BE LOCATED ON WET WALLS ONLY, FULL HEIGHT
L109	WOMEN RR	SC	RB-1	P-2	GYP			TP-1, FLOOR MTD., CLG. BRACED, FRP TO BE LOCATED ON WET WALLS ONLY, FULL HEIGHT
S101	CONCESSIONS	SC	RB-1	FRP	GYP		SST-1	FRP TO BE LOCATED ON ALL WALLS, FULL-HEIGHT
S102	JAN	SC	RB-1	P-1	GYP			
S103	PANTRY	SC	RB-1	P-1	GYP			
S104	MEN RR	SC	RB-1	P-2	GYP			TP-1, FLOOR MTD., CLG. BRACED, FRP TO BE LOCATED ON WET WALLS ONLY, FULL HEIGHT
S105	WOMEN RR	SC	RB-1	P-2	GYP			TP-1, FLOOR MTD., CLG. BRACED, FRP TO BE LOCATED ON WET WALLS ONLY, FULL HEIGHT

DOOR SCHEDULE																	
TAG	OPENING ROOM NAME	RTG	OPENING SIZE		DOOR			FRAME					COMMENTS				
			WIDTH	HEIGHT	TYPE	MTL	FIN	TYPE	MTL	FIN	HEAD	JAMB		SILL	HDWR		
L100.1	VESTIBULE		6'-0"	8'-0"	GATE	-	-	-	-	-	-	-	-	-	-	-	SEE 3/A103
L101.1	CONCESSIONS		3'-0"	7'-0"	F	HM	PT	1	HM	PT	4/A502	S/A502	6/A502	-	-	-	
L102.1	JAN		3'-0"	7'-0"	F	HM	PT	1	HM	PT	4/A502	S/A502	6/A502	-	-	-	
L103.1	PANTRY		3'-0"	7'-0"	F	HM	PT	1	HM	PT	7/A502	B/A502	-	-	-	-	
L104.1	UMPIRE ROOM		3'-0"	7'-0"	F	HM	PT	1	HM	PT	4/A502	S/A502	6/A502	-	-	-	
L105.1	ELEC		3'-0"	7'-0"	F	HM	PT	1	HM	PT	7/A502	B/A502	-	-	-	-	
L106.1	UMPIRE RESTROOM		3'-0"	7'-0"	F	HM	PT	1	HM	PT	7/A502	B/A502	-	-	-	-	
L107.1	FIELD STORAGE		6'-0"	7'-0"	F-D	HM	PT	1	HM	PT	4/A502	S/A502	6/A502	-	-	-	
L108.1	MEN RR		3'-0"	7'-0"	F	HM	PT	1	HM	PT	4/A502	S/A502	6/A502	-	-	-	
L109.1	WOMEN RR		3'-0"	7'-0"	F	HM	PT	1	HM	PT	4/A502	S/A502	6/A502	-	-	-	
L110.1	MECH. ENCLOSURE		3'-0"	8'-0"	GATE	-	-	-	-	-	-	-	-	-	-	-	SEE 6/A103
S100.1	VESTIBULE		3'-0"	8'-0"	GATE	-	-	-	-	-	-	-	-	-	-	-	SEE 9/A103
S101.1	CONCESSIONS		3'-0"	7'-0"	F	HM	PT	1	HM	PT	4/A502	S/A502	6/A502	-	-	-	
S102.1	JAN		3'-0"	7'-0"	F	HM	PT	1	HM	PT	4/A502	S/A502	6/A502	-	-	-	
S103.1	PANTRY		3'-0"	7'-0"	F	HM	PT	1	HM	PT	7/A502	B/A502	-	-	-	-	
S104.1	MEN RR		3'-0"	7'-0"	F	HM	PT	1	HM	PT	4/A502	S/A502	6/A502	-	-	-	
S105.1	WOMEN RR		3'-0"	7'-0"	F	HM	PT	1	HM	PT	4/A502	S/A502	6/A502	-	-	-	
S107.1	MECH. ENCLOSURE		3'-0"	8'-0"	GATE	-	-	-	-	-	-	-	-	-	-	-	SEE 12/A103



PARKS AND RECREATION
BASEBALL AND SOFTBALL FIELDS

CITY OF PEARL
320 CITY CENTER DRIVE
PEARL, MS 39208



10.02.2019

CONSTRUCTION DOCUMENTS
WBA # 3518

NO.	DESCRIPTION	DATE

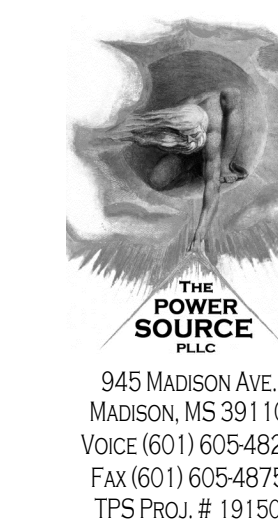
A501
DOORS, WINDOWS,
PARTITIONS, FINISHES

ELECTRICAL LEGEND

GENERAL NOTES	RECEPTACLES																										
<p>1. ALL EQUIPMENT AND DEVICES ARE TO BE FLUSH MOUNTED UNLESS OTHERWISE NOTED.</p> <p>2. DEVICES NOTED AS "GFI" SHALL BE GROUND FAULT CIRCUIT INTERRUPTING DEVICES.</p> <p>3. DEVICES NOTED AS "WP" SHALL BE WEATHERPROOF WHILE-IN-USE.</p> <p>4. PROVIDE UNSWITCHED POWER TO EMERGENCY BATTERY PACKS.</p>	<p>⊕ ? DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.</p> <p>⊕ ? DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED WITH BOTTOM OF BOX 2" ABOVE COUNTER BACKSPLASH. WHERE THERE IS NO BACKSPLASH MOUNT 6" ABOVE COUNTER. WHERE RECEPTACLE IS SHOWN IN AN AREA WITH NO COUNTER, MOUNT 45"A.F.F. TO CENTERLINE OF BOX.</p>																										
LUMINAIRES (See Light Fixture Schedule)	SWITCHES																										
<p>NOTE: THE NUMBER INSIDE THE CIRCLE IS THE CIRCUIT NUMBER, THE LETTER BESIDE THE SYMBOL IS THE FIXTURE TYPE DESCRIBED IN THE LIGHT FIXTURE SCHEDULE.</p> <p>⊕ ? SURFACE MOUNTED OR SUSPENDED FIXTURE.</p> <p>⊕ ? SURFACE MOUNTED OR SUSPENDED EMERGENCY FIXTURE.</p> <p>⊕ ? RECESSED CEILING FIXTURE.</p> <p>⊕ ? RECESSED EMERGENCY CEILING FIXTURE.</p>	<p>§ SINGLE-POLE, SINGLE-THROW SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.</p> <p>M § AUTOMATIC WALL SWITCH. SENSORSWITCH #WSD-PDT OR APPROVED EQUAL. MOUNT CENTERLINE OF BOX AT 45" A.F.F. UNLESS NOTED OTHERWISE.</p> <p>Ⓜ POWER PACK MOUNTED ABOVE CEILING. SENSORSWITCH #PP20 OR APPROVED EQUAL.</p> <p>Ⓜ PASSIVE INFRARED AND ULTRASONIC DUAL TECHNOLOGY OCCUPANCY SENSOR WITH A 28' RADIAL COVERAGE. CEILING MOUNTED. SENSORSWITCH #CM-PDT-10 OR APPROVED EQUAL.</p> <p>⊕ ? GFCI RECEPTACLE MOUNTED ON PEDESTAL. PEDESTAL SHALL BE EQUAL TO PEDOC POWER #1P12HZ.</p> <p>⊕ WEATHER PROOF BOX WITH WEATHER PROOF COVER FOR OWNER PROVIDED AND INSTALLED FAN. COORDINATE WITH OWNER IF FAN WILL BE HARD WIRE OR PLUG IN TYPE FAN.</p>																										
CONDUIT AND WIRING	GEAR																										
<p>CONDUCTORS IN CONDUIT CONCEALED WITHIN WALL OR CEILING. TIC MARKS INDICATE NUMBER OF CONDUCTORS. THE EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN, BUT SHALL BE PROVIDED. SIZE THE EQUIPMENT GROUNDING CONDUCTOR AND THE CONDUIT PER THE NEC. THE ABSENCE OF TIC MARKS SIGNIFIES THAT TWO CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED. FOR EXAMPLE, THE MARKINGS TO THE LEFT SIGNIFY THAT THREE CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED.</p> <p>⊕ THE TEXT INSIDE THE ARC INDICATES THE AWG SIZE OF THE CONDUCTORS THAT SHALL BE RUN IN THE CONDUIT. THE ABSENCE OF TEXT SIGNIFIES THAT THE CONDUCTORS SHOULD BE #12 AWG.</p> <p>LA-1 HOMERUN TO PANELBOARD. ARC DENOTES CONCEALED CIRCUITRY. TEXT DENOTES PANELBOARD NAME WITH CIRCUIT NUMBER. DEVICES HAVING CIRCUIT NUMBERS LOCATED BESIDE THEM MAY NOT SHOW THE CIRCUIT NUMBERS AT THE HOMERUN ARROWS.</p> <p>LOW VOLTAGE CONDUCTORS USED FOR MOTION DETECTOR CIRCUITRY. SEE MANUFACTURER'S RECOMMENDATIONS FOR CONDUCTOR REQUIREMENTS.</p>	<p>Ⓜ PANELBOARD.</p>																										
	VOLTAGE DROP CHART FOR 20A, 1Ø CIRCUITS																										
	Voltage	Circuit Length	Conductor Size (AWG)	120	< 50'	#12	120	> 50'	#10	120	> 90'	#8	120	> 140'	#6	277	< 130'	#12	277	> 130'	#10	277	> 200'	#8	277	> 330'	#6
Voltage	Circuit Length	Conductor Size (AWG)																									
120	< 50'	#12																									
120	> 50'	#10																									
120	> 90'	#8																									
120	> 140'	#6																									
277	< 130'	#12																									
277	> 130'	#10																									
277	> 200'	#8																									
277	> 330'	#6																									
	VOLTAGE DROP CHART NOTES:																										

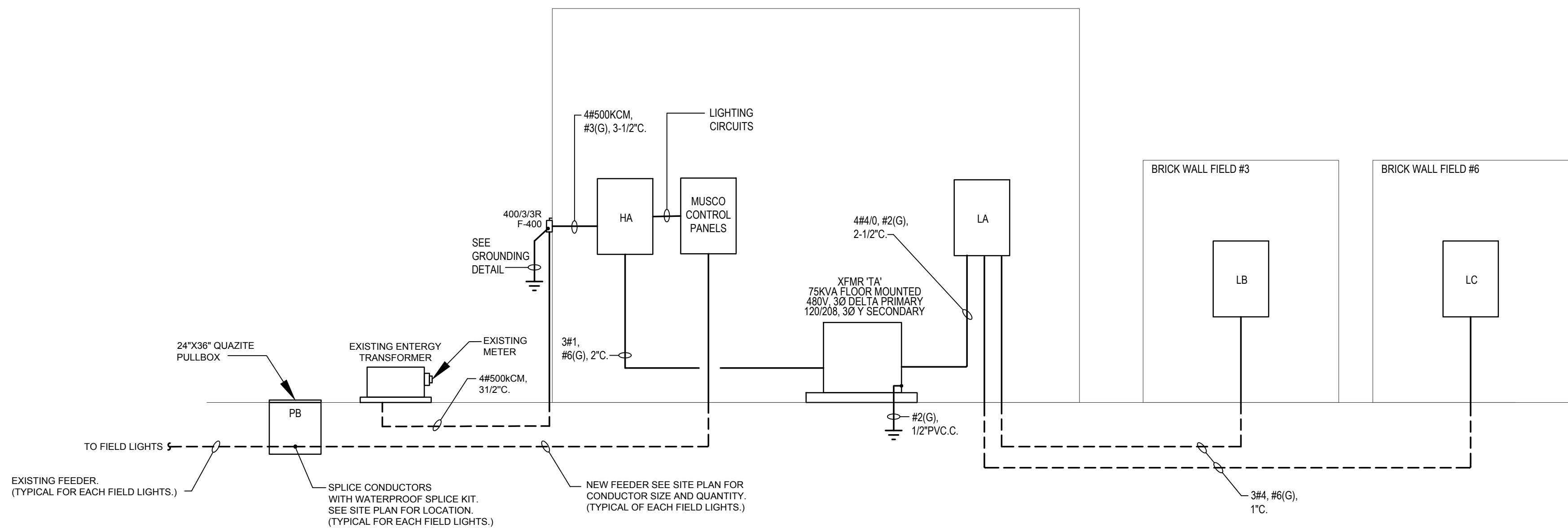
LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	PART NUMBER	LAMPS	MOUNTING	REMARKS
A	LITHONIA	SBL4-4000LM-480CRI-40K-MIN10-GZT-MVOLT	LED, 32.4W 3994 LUMENS	SURFACE	
AE	LITHONIA	SBL4-4000LM-480CRI-40K-MIN10-GZT-MVOLT-EL14L	LED, 32.4W 3994 LUMENS	SURFACE	
B	LITHONIA	LDN6-40/10-LOGAR-LS-MVOLT-GZ10	LED, 12.8W 1109 LUMENS	RECESSED	
BE	LITHONIA	LDN6-40/10-LOGAR-LS-MVOLT-GZ10-EL	LED, 12.8W 1109 LUMENS	RECESSED	
C	HUNTER	CHRONICLE OUTDOOR 54" #5923*		SURFACE	* VERIFY COLOR WITH ARCHITECT.
SA	LITHONIA	DSX1-LED-P6-40K-BLC-MVOLT-SPA	LED, 163W 15609 LUMENS	POLE SSS-30-4G	30' POLE
SB	LITHONIA	DSX1-LED-P6-40K-T5M-MVOLT-SPA	LED, 163W 19766 LUMENS	POLE SSS-30-4G	30' POLE
SC	LITHONIA	DSX1-LED-P6-40K-T5M-MVOLT-SPA-AS3-5-280	LED, (2)163W (2)19766 LUMENS	POLE SSS-30-4G	30' POLE 180 DEGREE MOUNTING BRACKET
X	LITHONIA	LQM-S-3-R-120/277-EL N	LED	UNIVERSAL	



**PARKS AND RECREATION
BASEBALL AND SOFTBALL FIELDS**

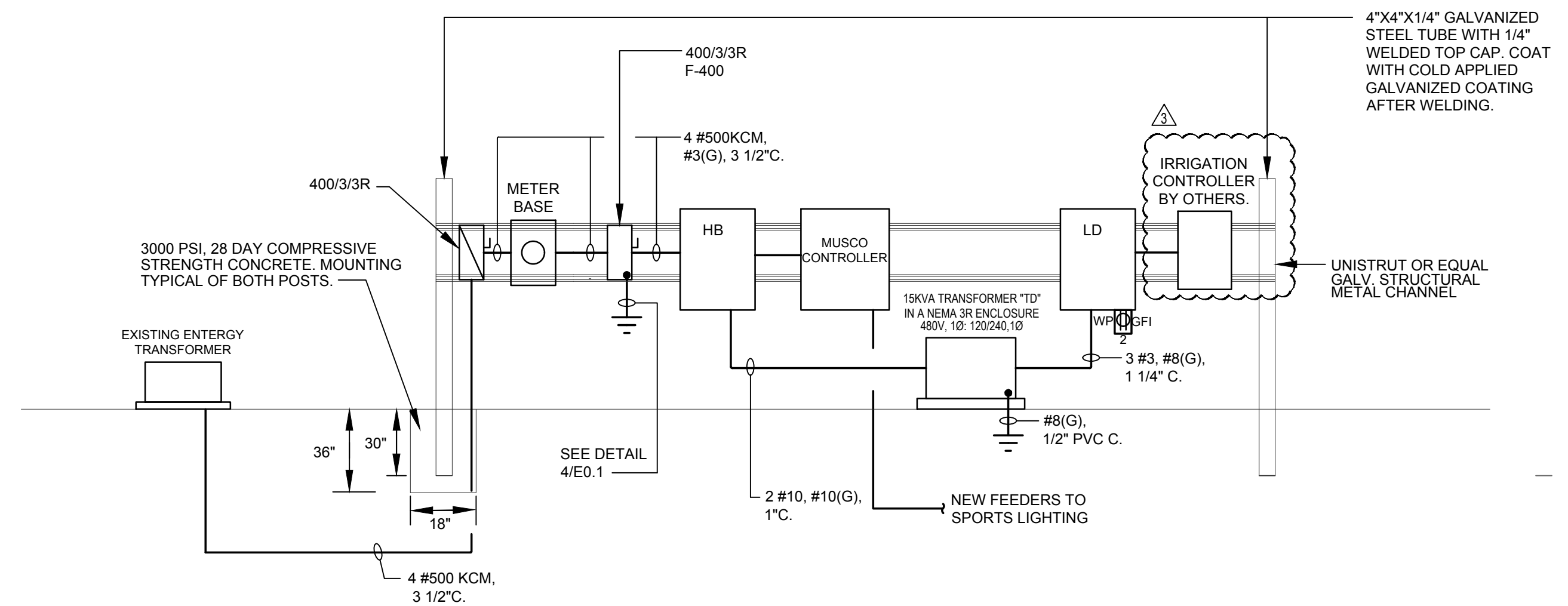
CITY OF PEARL
320 CITY CENTER DRIVE
PEARL, MS 39208



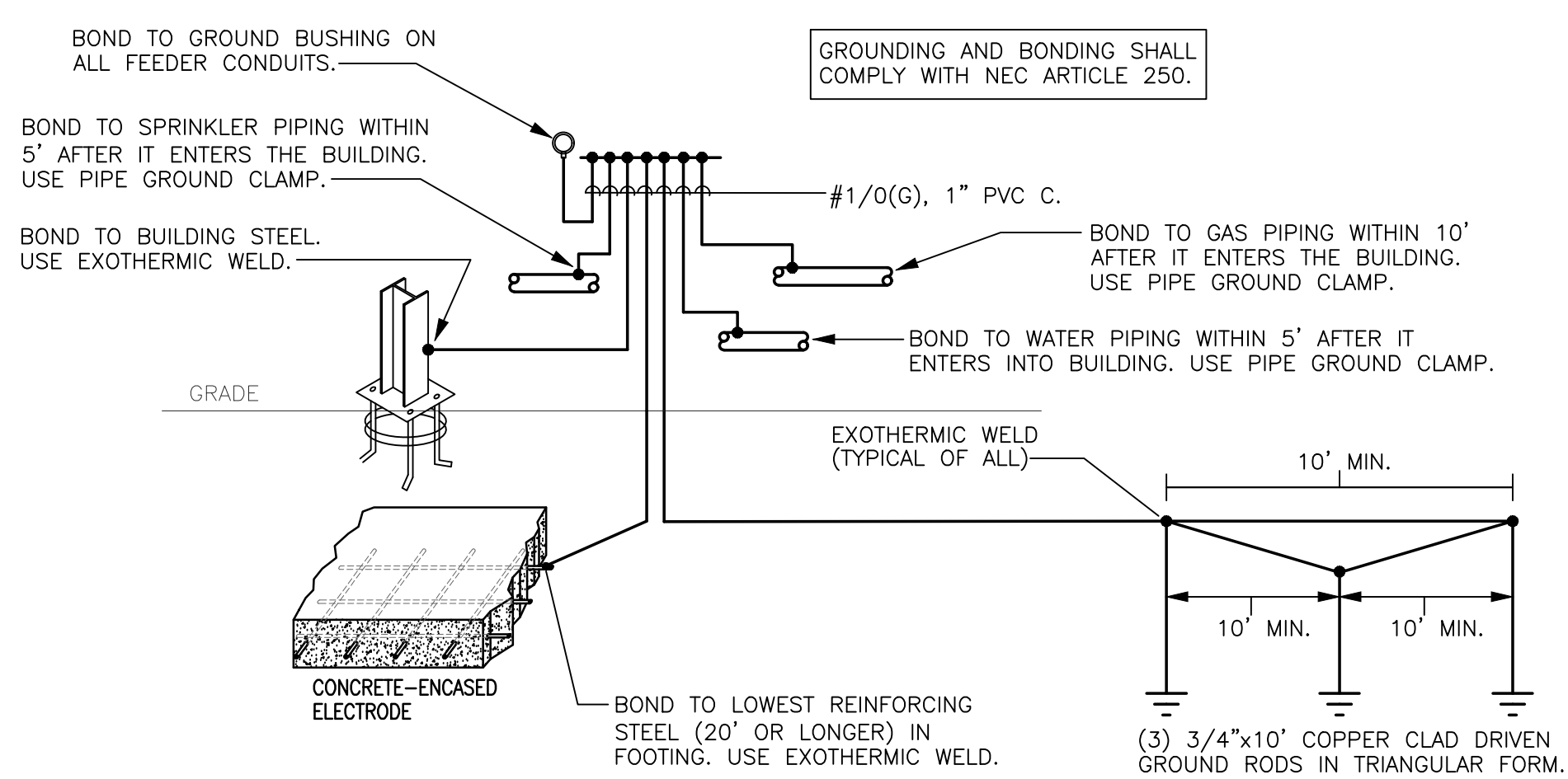
ONE LINE DIAGRAM - BASEBALL FIELDS 1-6
Scale: NONE

SINGLE LINE DIAGRAM - GENERAL NOTES

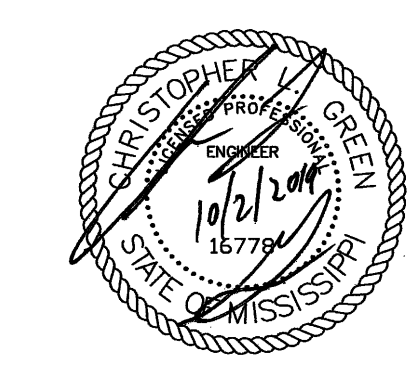
Mark	Description
1.	ALL ELECTRICAL PANELS SHALL BE PAINTED BLACK



ONE LINE DIAGRAM - BASEBALL FIELDS 7&8
Scale: NONE



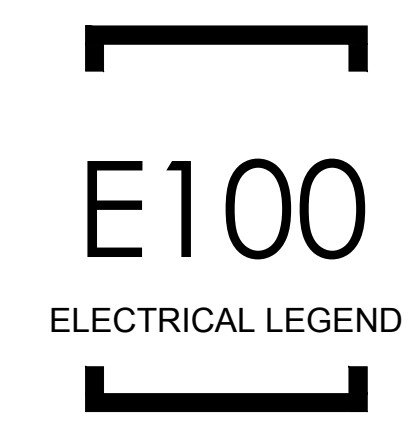
GROUNDING DETAIL - BASEBALL FIELDS
Scale: NONE

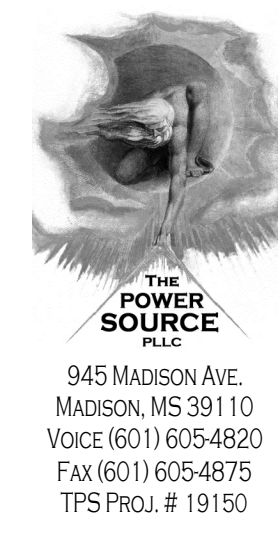


10.02.2019

CONSTRUCTION DOCUMENTS
WBA # 3518

NO. DESCRIPTION DATE
ADDENDUM #3 10-25-19





945 MADISON AVE.
MADISON, MS 39110
VOICE (601) 605-4820
FAX (601) 605-4875
TPS PROJ. # 19150



**PARKS AND RECREATION
BASEBALL AND SOFTBALL FIELDS**

CITY OF PEARL
320 CITY CENTER DRIVE
PEARL, MS 39208

PANEL HA LOCATION: ELEC L105 VOLT: 480Y/277V, 3Ø, 4W BUS: 400A LUG LOCATION: BOTTOM FEED MAIN LUGS ONLY SURFACE MOUNTING: 25,000

CIRCUIT NO.	BREAKER		DESCRIPTION	PHASE LOAD (KVA)			DESCRIPTION	BREAKER		CIRCUIT NO.
	AMPS	POLES		A	B	C		AMPS	POLES	
1	110	3	XFMR "TA" FEEDS PANEL LA	25.7	9.8		FIELD LIGHTS 4	60	3	2
3	-	-	-		25.5	9.8	-	-	-	4
5	-	-	-			26.0	9.8	-	-	6
7	60	3	FIELD LIGHTS 1	9.1	9.4		FIELD LIGHTS 5	60	3	8
9	-	-	-		9.1	9.4	-	-	-	10
11	-	-	-			9.1	9.4	-	-	12
13	60	3	FIELD LIGHTS 2	9.8	15.3		FIELD LIGHTS 6	100	3	14
15	-	-	-		9.8	15.3	-	-	-	16
17	-	-	-			9.8	15.3	-	-	18
19	60	3	FIELD LIGHTS 3	10.1	0.0		SPARE	100	3	20
21	-	-	-		10.1	0.0	-	-	-	22
23	-	-	-			10.1	0.0	-	-	24
25	60	3	SPARE	0.0	0.0		SPACE	-	-	26
27	-	-	-		0.0	0.0	-	-	-	28
29	-	-	-			0.0	0.0	-	-	30
31	-	-	-		0.0	0.0	-	-	-	32
33	-	-	-		0.0	0.0	-	-	-	34
35	-	-	-			0.0	0.0	-	-	36
37	-	-	-		0.0	0.0	-	-	-	38
39	-	-	-		0.0	0.0	-	-	-	40
41	-	-	-			0.0	0.0	-	-	42
TOTAL				89.2	89.0	89.5				

PANEL HB LOCATION: EXTERIOR FIELD 7&8 VOLT: 480Y/277V, 3Ø, 4W BUS: 400A LUG LOCATION: BOTTOM FEED MAIN LUGS ONLY SURFACE MOUNTING: 25,000

CIRCUIT NO.	BREAKER		DESCRIPTION	PHASE LOAD (KVA)			DESCRIPTION	BREAKER		CIRCUIT NO.
	AMPS	POLES		A	B	C		AMPS	POLES	
1	25	2	XFMR "TD" FEEDS PANEL LD	7.3	7.6		FIELD LIGHTS 7	40	3	2
3	-	-	-		6.9	7.6	-	-	-	4
5	20	2	PARKING LOT LIGHTS		1.4	7.6	-	-	-	6
7	-	-	-		1.4	7.9	-	-	-	8
9	20	2	PARKING LOT LIGHTS		1.3	7.9	-	-	-	10
11	-	-	-			1.3	7.9	-	-	12
13	40	3	SPARE	0.0	9.3		FIELD LIGHTS 8	50	3	14
15	-	-	-		0.0	9.3	-	-	-	16
17	-	-	-			0.0	9.3	-	-	18
19	50	3	SPARE	0.0	9.3		FIELD LIGHTS 8	50	3	20
21	-	-	-		0.0	9.3	-	-	-	22
23	-	-	-			0.0	9.3	-	-	24
25	40	3	SPARE	0.0	0.0		SPARE	50	3	26
27	-	-	-		0.0	0.0	-	-	-	28
29	-	-	-			0.0	0.0	-	-	30
TOTAL				42.8	42.3	36.9				

PANEL LA - SEC. 1 LOCATION: ELECTRICAL ROOM VOLT: 208Y/120V, 3Ø, 4W BUS: 225A LUG LOCATION: BOTTOM FEED 225A MAIN BREAKER W/FEED THR SURFACE MOUNTING: 10,000

CIRCUIT NO.	BREAKER		DESCRIPTION	PHASE LOAD (KVA)			DESCRIPTION	BREAKER		CIRCUIT NO.	
	AMPS	POLES		A	B	C		AMPS	POLES		
1	60	3	COUNTERTOP FRYER(B2)	5.7	4.6		COUNTERTOP GRIDDLE(B4)	60	3	2	
3	-	-	-		5.7	4.6	-	-	-	4	
5	-	-	-			5.7	4.6	-	-	6	
7	-	-	SHUNT TRIP COIL	0.0	0.0		SHUNT TRIP COIL	-	-	8	
9	*20	1	FREZER(B3b)		0.1	0.9	REFRIGERATOR REACH-IN MERCHANDISER(B8a)	*20	1	10	
11	*20	1	FREZER(B3c)		0.1	0.9	REFRIGERATOR REACH-IN MERCHANDISER(B8b)	*20	1	12	
13	*20	1	SODA DISPENSER W/ ICE BIN(B11a)	1.4	0.5		REACH-IN REFRIGERATOR (B14)	*20	1	14	
15	*20	1	SODA DISPENSER W/ ICE BIN(B11b)		1.4	1.8	COFFEE BREWER(B15)	*20	1	16	
17	*20	1	COUNTERTOP FOOD WARMER(16a)		1.2	0.5	HEAT LAMP-FRY WARMER(B17)	*20	1	18	
19	*20	1	COUNTERTOP FOOD WARMER(16b)	1.2	0.8		NACHO CHEESE AND CHILI WARMING DISPENSER(B18a)	*20	1	20	
21	*20	1	CHIP WARMER(B19)		0.1	0.8	NACHO CHEESE AND CHILI WARMING DISPENSER(B18b)	*20	1	22	
23	*20	1	POPCORN MACHINE(B20)		1.2	0.7	LTS. CONCESSION L101, JAN L102 PANTRY L103	20	1	24	
25	20	1	REC- CONCESSIONS(L101)	0.2	0.2		LIGHTING-OUTSIDE	20	1	26	
27	20	1	REC- CONCESSIONS(L101)		0.4	1.3	REC- UMPIRE ROOM(L104)	20	1	28	
29	20	1	REC- CONCESSIONS(L101)		0.2	1.4	REC- ELEC (L105), PANTRY L103	20	1	30	
31	20	1	REC- CONCESSIONS(L101)	0.2	2.7		ODU-01	40	3	32	
33	20	1	SHUNT TRIP CONTROLS		0.1	2.7	-	-	-	34	
35	60	2	WH-01(S102)		4.5	2.7	-	-	-	36	
37	-	-	-		4.5	1.5	-	-	-	38	
39	25	1	KEF-01(L101)		1.7	1.7	ICE MAKER W/ BIN(B7)	*20	1	40	
41	20	1	FREZER(B3a)			0.1	0.0	SF-01(L101)	25	1	42
43	20	1	REC- CONCESSIONS(L101)	0.2	0.7		SHUNT TRIP	-	-	44	
45	20	2	IDU-1-01, IDU-1-02, IDU-1-03 (S104)		0.5	0.0	REC - MENS L108, WOMENS L109, MECH L110	20	1	46	
47	-	-	-			0.5	0.0	LIGHTS MENS L108, WOMENS L109	20	1	48
49	20	1	REC - TDBB	0.4	0.0		PANEL "LB"	60	2	50	
51	20	1	REC - TDBB		0.4	0.0	-	-	-	52	
53	20	1	CEILING FANS			1.5	0.0	PANEL "LC"	60	2	54
TOTAL				24.7	24.0	25.9					

PANEL LD LOCATION: RACK AT FIELD 7-8 VOLT: 240/139V, 1Ø, 3W BUS: 100A LUG LOCATION: BOTTOM FEED 80A MAIN BREAKER SURFACE MOUNTING: 10,000

CIRCUIT NO.	BREAKER		DESCRIPTION	PHASE LOAD (KVA)		DESCRIPTION	BREAKER		CIRCUIT NO.	
	AMPS	POLES		L1	L2		AMPS	POLES		
1	20	1	REC - (BASEBALL FIELD 7 DUGOUT)	1.2	0.2	RECEIVABLE ON PANEL IRRIGATION CONTROLLER	20	1	2	
3	20	1	BASEBALL FIELD 7 BLEACHER FANS	1.2	0.0	1.2	0.2	-	-	4
5	20	1	REC - (BASEBALL FIELD 7 BLEACHER FANS)	1.2	0.0			-	-	6
7	20	1	BASEBALL FIELD 7 BLEACHER FANS	1.2	0.0	1.2	0.0	-	-	8
9	20	1	REC - (BASEBALL FIELD 7 DUGOUT)	1.2	0.0			-	-	10
11	20	1	BASEBALL FIELD 7 SCOREBOARD	1.2	0.0	1.0	0.0	-	-	12
13	20	1	REC - (BASEBALL FIELD 8 DUGOUT)	1.2	0.0			-	-	14
15	20	1	BASEBALL FIELD 8 BLEACHER FANS	1.2	0.0	1.2	0.0	-	-	16
17	20	1	REC - (BASEBALL FIELD 8 BLEACHER FANS)	1.2	0.0			-	-	18
19	20	1	BASEBALL FIELD 8 BLEACHER FANS	1.2	0.0	1.2	0.0	-	-	20
21	20	1	REC - (BASEBALL FIELD 8 DUGOUT)	1.2	0.0			-	-	22
23	20	1	BASEBALL FIELD 8 SCOREBOARD	1.2	0.0	1.0	0.0	-	-	24
TOTAL				7.3	6.9					

PANEL LA - SEC. 2 LOCATION: ELECTRICAL ROOM VOLT: 208Y/120V, 3Ø, 4W BUS: 225A LUG LOCATION: TOP FEED MAIN LUGS ONLY SURFACE MOUNTING: 10,000

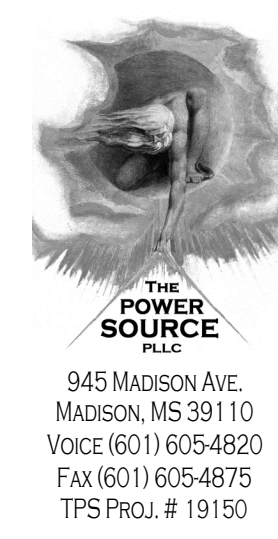
CIRCUIT NO.	BREAKER		DESCRIPTION	PHASE LOAD (KVA)			DESCRIPTION	BREAKER		CIRCUIT NO.	
	AMPS	POLES		A	B	C		AMPS	POLES		
55	20	1	CEILING FANS	1.0	0.0		SPARE	20	1	56	
57	20	1	CEILING FANS		1.5	0.0	SPARE	20	1	58	
59	20	1	IRRIGATION CONTROLLER			0.2	0.0	SPARE	20	1	60
61	20	1	SPARE	0.0	0.0		SPARE	20	1	62	
63	20	1	SPARE		0.0	0.0	SPARE	20	1	64	
65	20	1	SPARE			0.0	0.0	SPARE	20	1	66
67	20	1	SPARE	0.0	0.0		SPARE	20	1	68	
69	20	1	SPARE		0.0	0.0	SPARE	20	1	70	
71	20	1	SPARE			0.0	0.0	SPARE	20	1	72
73	20	1	SPARE	0.0	0.0		SPARE	20	1	74	
75	20	1	SPARE		0.0	0.0	SPARE	20	1	76	
77	20	1	SPARE			0.0	0.0	SPARE	20	1	78
79	20	1	SPARE	0.0	0.0		SPARE	20	1	80	
81	20	1	SPARE		0.0	0.0	SPARE	20	1	82	
83	20	1	SPARE			0.0	0.0	SPARE	20	1	84
85	20	1	SPARE	0.0	0.0		SPARE	20	1	86	
87	20	1	SPARE		0.0	0.0	SPARE	20	1	88	
89	20	1	SPARE			0.0	0.0	SPARE	20	1	90
91	20	1	SPARE	0.0	0.0		SPARE	20	1	92	
93	20	1	SPARE		0.0	0.0	SPARE	20	1	94	
95	20	1	SPARE			0.0	0.0	SPARE	20	1	96
97	20	1	SPARE	0.0	0.0		SPARE	20	1	98	
99	20	1	SPARE		0.0	0.0	SPARE	20	1	100	
101	20	1	SPARE			0.0	0.0	SPARE	20	1	102
103	20	1	SPARE	0.0	0.0		SPARE	20	1	104	
105	20	1	SPARE		0.0	0.0	SPARE	20	1	106	
107	20	1	SPARE			0.0	0.0	SPARE	20	1	108
TOTAL				1.0	1.5	0.2					

PANEL LB LOCATION: BRICK WALL FIELD #3 VOLT: 208/120V, 1Ø, 3W BUS: 100A LUG LOCATION: BOTTOM FEED 60A MAIN BREAKER SURFACE MOUNTING: 10,000

CIRCUIT NO.	BREAKER		DESCRIPTION	PHASE LOAD (KVA)		DESCRIPTION	BREAKER		CIRCUIT NO.		
	AMPS	POLES		L1	L2		AMPS	POLES			
1	20	1	REC - (BASEBALL FIELD 1 DUGOUT)	1.2	1.2	REC - (BASEBALL FIELD 3 DUGOUT)	20	1	2		
3	20	1	BASEBALL FIELD 1 BLEACHER FANS	1.2	1.2	1.2	1.2	BASEBALL FIELD 3 BLEACHER FANS	20	1	4
5	20	1	REC - (BASEBALL FIELD 1 BLEACHER FANS)	1.2	1.2			REC - (BASEBALL FIELD 3 BLEACHER FANS)	20	1	6
7	20	1	BASEBALL FIELD 1 BLEACHER FANS	1.2	1.2	1.2	1.2	BASEBALL FIELD 3 BLEACHER FANS	20	1	8
9	20	1	REC - (BASEBALL FIELD 1 DUGOUT)	1.2	1.2			REC - (BASEBALL FIELD 3 DUGOUT)	20	1	10
11	20	1	BASEBALL FIELD 1 SCOREBOARD		1.0	1.0		BASEBALL FIELD 3 SCOREBOARD	20	1	12
13	20	1	REC - (BASEBALL FIELD 2 DUGOUT)	1.2	0.0			SPARE	20	1	14
15	20	1	BASEBALL FIELD 2 BLEACHER FANS		1.2	0.0		SPARE	20	1	16
17	20	1	REC - (BASEBALL FIELD 2 BLEACHER FANS)	1.2	0.0			SPARE	20	1	18
19	20	1	BASEBALL FIELD 2 BLEACHER FANS			1.2	0.0	SPARE	20	1	20
21	20	1	REC - (BASEBALL FIELD 2 DUGOUT)	1.2	0.0			SPARE	20	1	22
23	20	1	BASEBALL FIELD 2 SCOREBOARD		1.0	0.0		SPARE	20	1	24
TOTAL				10.6	10.1						

PANEL LC LOCATION: BRICK WALL FIELD #3 VOLT: 208/120V, 1Ø, 3W BUS: 100A LUG LOCATION: 60A MAIN BREAKER SURFACE MOUNTING: 10,000

CIRCUIT NO.	BREAKER		DESCRIPTION	PHASE LOAD (KVA)		DESCRIPTION	BREAKER		CIRCUIT NO.		
	AMPS	POLES		L1	L2		AMPS	POLES			
1	20	1	REC - (BASEBALL FIELD 4 DUGOUT)	1.2	1.2	REC - (BASEBALL FIELD 6 DUGOUT)	20	1	2		
3	20	1	BASEBALL FIELD 4 BLEACHER FANS	1.2	1.2	1.2	1.2	BASEBALL FIELD 6 BLEACHER FANS	20	1	4
5	20	1	REC - (BASEBALL FIELD 4 BLEACHER FANS)	1.2	1.2			REC - (BASEBALL FIELD 6 BLEACHER FANS)	20	1	6
7	20	1	BASEBALL FIELD 4 BLEACHER FANS	1.2	1.2	1.2	1.2	BASEBALL FIELD 6 BLEACHER FANS	20	1	8
9	20	1	REC - (BASEBALL FIELD 4 DUGOUT)	1.2	1.2			REC - (BASEBALL FIELD 6 DUGOUT)	20	1	10
11	20	1	BASEBALL FIELD 4 SCOREBOARD		1.0	1.0		BASEBALL FIELD 6 SCOREBOARD	20	1	12
13	20	1	REC - (BASEBALL FIELD 5 DUGOUT)	1.2	0.0			SPARE	20	1	14
15	20	1	BASEBALL FIELD 5 BLEACHER FANS		1.2	0.0		SPARE	20	1</	



**PARKS AND RECREATION
BASEBALL AND SOFTBALL FIELDS**

CITY OF PEARL
320 CITY CENTER DRIVE
PEARL, MS 39208

POLE	CIRCUIT DESCRIPTION	# OF FIXTURES	# OF DRIVERS	*FULL LOAD AMPS	CONTACTOR SIZE (AMPS)	CONTACTOR ID	ZONE
A1,B1	Field 6	11	11	19.3	60	C6	1
A2,B2	Field 6	12	12	20.6	60	C6	1
C1	Field 6	4	4	7.7	60	C6	1
C2	Field 6	4	4	7.7	60	C6	1
A5,B5	Field 5	9	9	12.4	60	C5	2
A6,B1	Field 5	9	9	11.2	60	C5	2
C5	Field 5	4	4	5.2	60	C5	2
C6	Field 5	4	4	5.2	60	C5	2
A7,B7	Field 4	9	9	12.4	60	C4	3
A8,B8	Field 4	9	9	12.4	60	C4	3
C7	Field 4	4	4	5.2	60	C4	3
C8	Field 4	4	4	5.2	60	C4	3
A9,B9	Field 3	9	9	12.4	60	C3	4
A10,B10	Field 3	9	9	11.2	60	C3	4
C9	Field 3	4	4	5.2	60	C3	4
C10	Field 3	6	6	7.8	60	C3	4
A9,B9	Field 2	9	9	12.4	60	C2	5
A12,B12	Field 2	9	9	12.4	60	C2	5
C13	Field 2	4	4	5.2	60	C2	5
C14	Field 2	4	4	5.2	60	C2	5
A11,B11	Field 1	9	9	11.2	60	C1	6
A12,B12	Field 1	9	9	11.2	60	C1	6
C11	Field 1	4	4	5.2	60	C1	6
C12	Field 1	4	4	5.2	60	C1	6

POLE	CIRCUIT DESCRIPTION	# OF FIXTURES	# OF DRIVERS	*FULL LOAD AMPS	CONTACTOR SIZE (AMPS)	CONTACTOR ID	ZONE
A15,B15	Field 8	11	11	18.3	60	C1	7
A16,B16	Field 8	12	12	19.5	60	C2	7
C15	Field 8	5	5	9.1	60	C1	7
C16	Field 8	5	5	9.1	60	C2	7
A3,B3	Field 7	11	11	20.6	60	C3	8
A4,B4	Field 7	11	11	20.6	60	C4	8
C3	Field 7	4	4	6.5	60	C3	8
C4	Field 7	4	4	6.5	60	C4	8
D1	Field 7	4	4	6.5	60	C3	8
D2	Field 7	4	4	6.5	60	C4	8

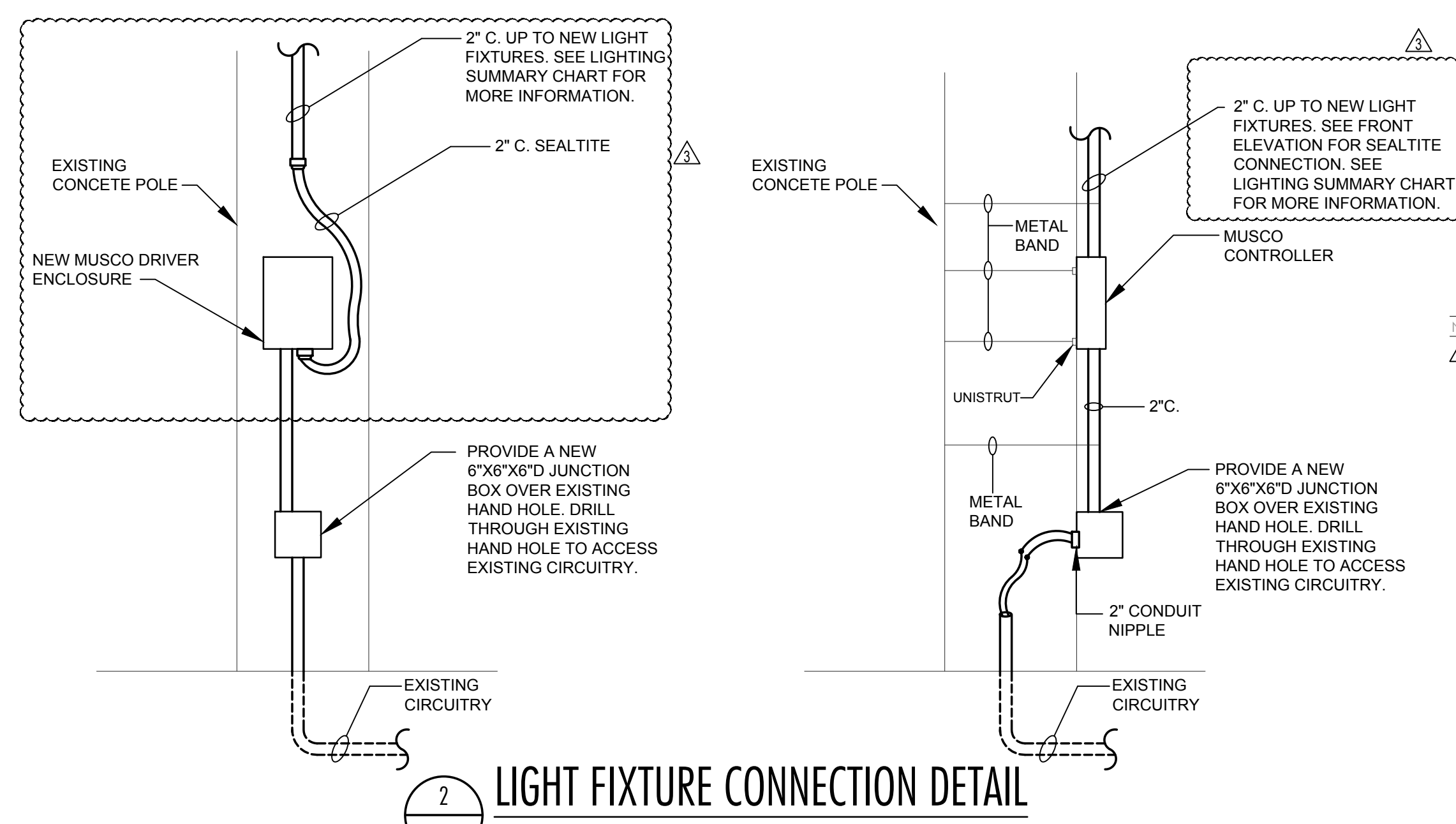
POLE ID	EXISTING POLE HEIGHT (FT)	MOUNTING HEIGHT (FT)	# OF FIXTURES	LUMINAIRE TYPE	LOAD (KW)
A1-A2	60	36	3	TLC-LED-900	2.67
A3-A4, C3-C4, D1-D2	60	60	3	TLC-LED-1200	3.51
A5-A6, C5-C6	50	36	3	TLC-LED-900	2.67
A7-A8, C7-C8	50	50	3	TLC-LED-900	2.67
A9	50	50	3	TLC-LED-900	2.67
A10, C9	50	50	3	TLC-LED-900	2.67
A11, C11-C12	50	50	3	TLC-LED-900	2.67
A12	50	50	3	TLC-LED-900	2.67
A15-A16	60	60	3	TLC-LED-1200	3.51
B1	60	60	4	TLC-LED-900	3.56
B2	60	60	6	TLC-LED-1500	8.58
B3-B4	60	60	6	TLC-LED-1500	8.58
B5	50	36	4	TLC-LED-900	3.56
B7-B8	50	50	4	TLC-LED-900	3.56
B9	50	50	4	TLC-LED-900	3.56
B10	50	50	4	TLC-LED-900	3.56
B11	50	50	4	TLC-LED-900	3.56
B12	50	50	4	TLC-LED-900	3.56
B15	60	60	6	TLC-LED-1200	7.02
B16	60	60	6	TLC-LED-1200	7.02
C1-C2	60	36	3	TLC-LED-900	2.67
C10	50	50	3	TLC-LED-900	2.67
C13-C14	50	50	3	TLC-LED-900	2.67
C15-C16	60	36	3	TLC-LED-900	2.67

1 PARTIAL SITE PLAN
Scale: 1" = 60'-0"

Mark	Description
1	CONNECT NEW LIGHTING TO EXISTING CIRCUITRY. REUSE THE EXISTING CONCRETE POLE. SEE DETAIL 2/E103
2	INTERCEPT EXISTING UNDERGROUND FEEDER TO THE FIELD LIGHTS. INSTALL A PULLBOX AND SPLICE THE EXISTING CIRCUITS WITH WATERPROOF SPLICE KITS. EXTEND CIRCUITRY TO PANEL "HA".
3	DEMOLISH ALL OF THE EXISTING ELECTRICAL TO THE CONCESSION STAND EXCEPT THE FIELD LIGHTS AND FIELD RECEPTACLE CIRCUITS.
4	DEMOLISH EXISTING CIRCUITS TO PRESSBOX.
5	INTERCEPT EXISTING UNDERGROUND FEEDER TO THE FIELD LIGHTS. INSTALL A 48"x60" PULLBOX AND SPLICE THE EXISTING CIRCUITS WITH WATERPROOF SPLICE KITS. EXTEND CIRCUITRY TO PANEL "HB".
6	COORDINATE WITH ENTegy TO DEMOLISH EXISTING LIGHT, POLE, AND OVERHEAD SECONDARY FEEDER.
7	EXISTING GRADES IN THIS AREA ARE BEING LOWERED. PROTECT EXISTING CONDUITS AND / OR LOWER THE CONDUITS AS NEEDED. PROVIDE A \$10,000 ALLOWANCE.

Mark	Description
---OHP---	EXISTING OVERHEAD 3Ø PRIMARY.
---UGP---	EXISTING UNDERGROUND PRIMARY.
---EUG---	APPROXIMATE LOCATION OF EXISTING SPORTS LIGHTING FEEDERS.

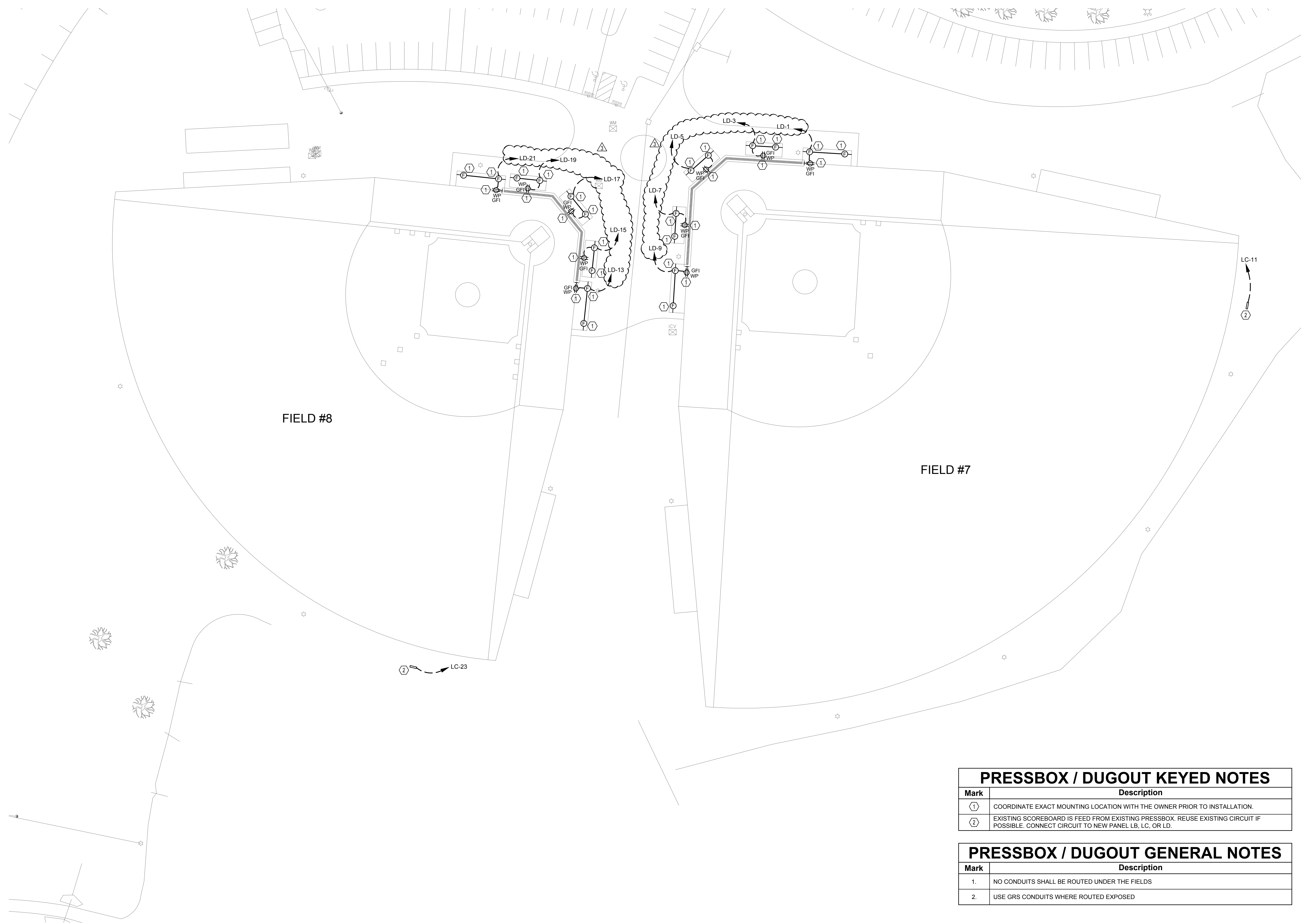
Mark	Description
1.	PROVIDE MYERS HUB FITTINGS FOR ALL CONNECTIONS ON THE POLE.



10.02.2019
CONSTRUCTION DOCUMENTS
WBA # 3518

NO. DESCRIPTION DATE
ADDENDUM #3 10-25-19

E103
ELECTRICAL SITE LIGHTING PLAN



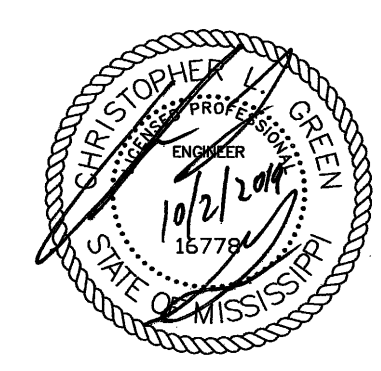
PRESSBOX / DUGOUT KEYED NOTES

Mark	Description
①	COORDINATE EXACT MOUNTING LOCATION WITH THE OWNER PRIOR TO INSTALLATION.
②	EXISTING SCOREBOARD IS FEED FROM EXISTING PRESSBOX. REUSE EXISTING CIRCUIT IF POSSIBLE. CONNECT CIRCUIT TO NEW PANEL LB, LC, OR LD.

PRESSBOX / DUGOUT GENERAL NOTES

Mark	Description
1.	NO CONDUITS SHALL BE ROUTED UNDER THE FIELDS
2.	USE GRS CONDUITS WHERE ROUTED EXPOSED

① PARTIAL SITE PLAN - FIELDS 7&8
 E106 Scale: 1" = 30'-0"



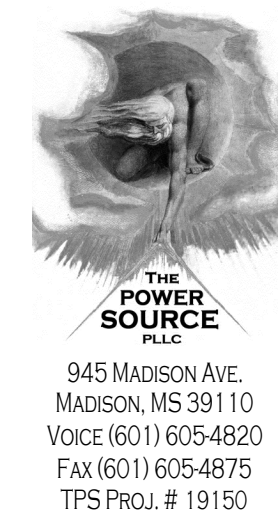
10.02.2019

CONSTRUCTION DOCUMENTS
 WBA # 3518

NO. DESCRIPTION DATE
 ADDENDUM #3 10-25-19

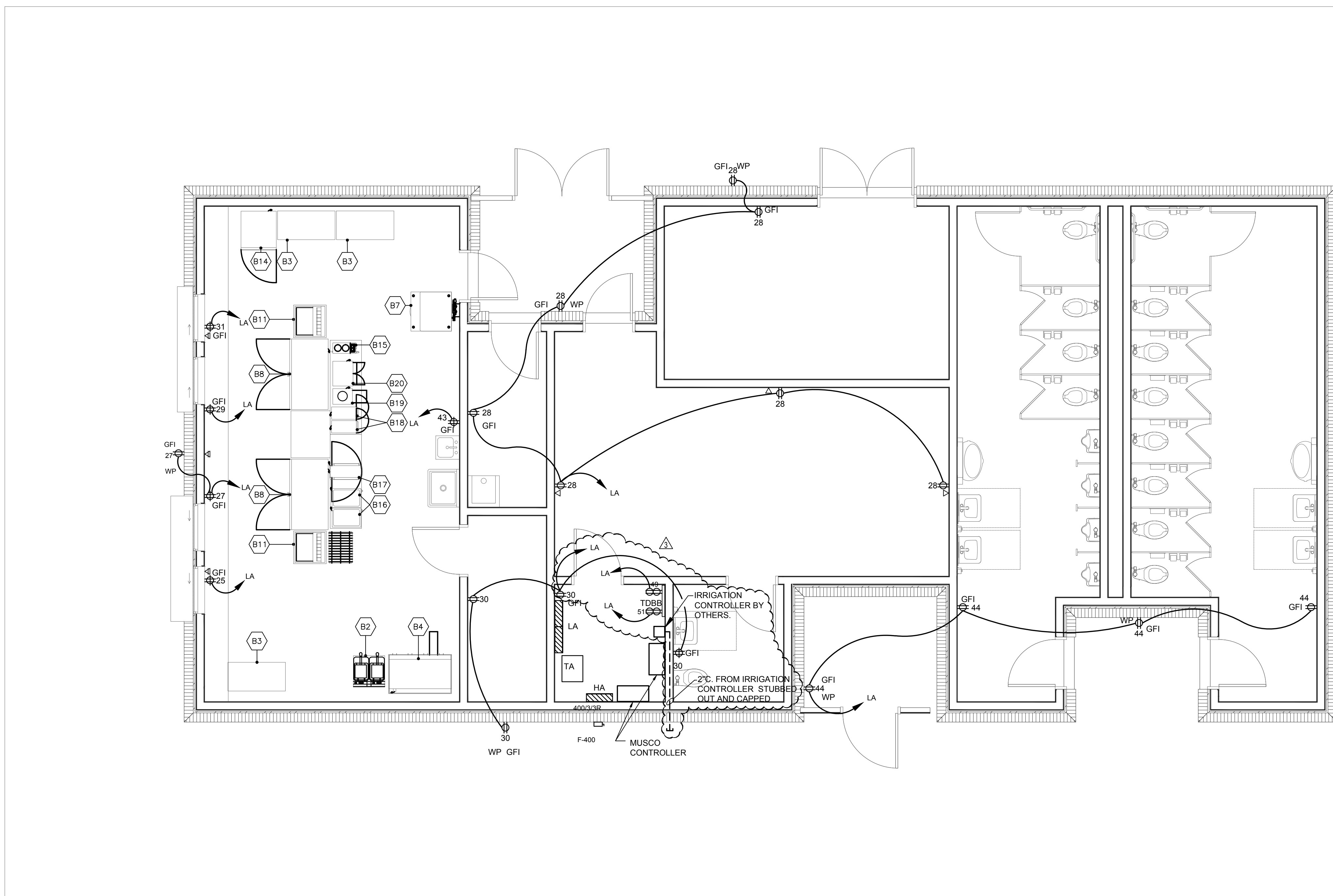
KITCHEN EQUIPMENT CONNECTIONS SCHEDULE-LARGE						
MARK	DESCRIPTION	VOLTAGE	PANEL	CIRCUITRY	LOCAL DISCONNECT	REMARKS
B2	COUNTERTOP FRYER	208V, 3Ø	LA	3#6, #10(G), 1" C.	60/3/4X	
B3a	FREEZER	120V, 1Ø	LA	2#12, #12(G), 1/2" C.	5-20R	
B3b	FREEZER	120V, 1Ø	LA	2#12, #12(G), 1/2" C.	5-20R	
B3c	FREEZER	120V, 1Ø	LA	2#12, #12(G), 1/2" C.	5-20R	
B4	48" COUNTERTOP GRIDDLE	208V, 3Ø	LA	3#8, #10(G), 3/4" C.	60/3/4X	
B7	ICE MAKER W/ BIN	120V, 1Ø	LA	2#12, #12(G), 1/2" C.	5-20R	
B8a	REFRIGERATED REACH-IN MERCHAND	120V, 1Ø	LA	2#12, #12(G), 1/2" C.	5-20R	
B8b	REFRIGERATED REACH-IN MERCHAND	120V, 1Ø	LA	2#12, #12(G), 1/2" C.	5-20R	
B11a	SODA DISPENSER W/ ICE BIN	120V, 1Ø	LA	2#12, #12(G), 1/2" C.	5-20R	
B11b	SODA DISPENSER W/ ICE BIN	120V, 1Ø	LA	2#12, #12(G), 1/2" C.	5-20R	
B14	REACH-IN REFRIGERATOR	120V, 1Ø	LA	2#12, #12(G), 1/2" C.	5-20R	
B15	COFFEE BREWER	120V, 1Ø	LA	2#12, #12(G), 1/2" C.	5-20R	
B16a	COUNTERTOP FOOD WARMER	120V, 1Ø	LA	2#12, #12(G), 1/2" C.	5-20R	
B16b	COUNTERTOP FOOD WARMER	120V, 1Ø	LA	2#12, #12(G), 1/2" C.	5-20R	
B17	HEAT LAMP- FRY WARMER	120V, 1Ø	LA	2#12, #12(G), 1/2" C.	5-20R	
B18a	NACHO CHEESE AND CHILLI	120V, 1Ø	LA	2#12, #12(G), 1/2" C.	5-20R	
B18b	NACHO CHEESE AND CHILLI	120V, 1Ø	LA	2#12, #12(G), 1/2" C.	5-20R	
B19	CHIP WARMER	120V, 1Ø	LA	2#12, #12(G), 1/2" C.	5-20R	
B20	POPCORN MACHINE	120V, 1Ø	LA	2#12, #12(G), 1/2" C.	5-20R	

General Note 1: Prior to submitting electrical equipment brochures, the Contractor shall verify actual equipment submittal data and adjust equipment services accordingly.



**PARKS AND RECREATION
BASEBALL AND SOFTBALL FIELDS**

CITY OF PEARL
320 CITY CENTER DRIVE
PEARL, MS 39208

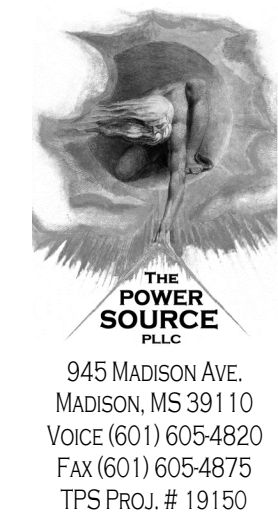


10.02.2019

CONSTRUCTION DOCUMENTS
WBA # 3518

NO. DESCRIPTION DATE
ADDENDUM #3 10-25-19

1
E108 **POWER PLAN - BASEBALL CONCESSION**
Scale: 1/4" = 1'-0"

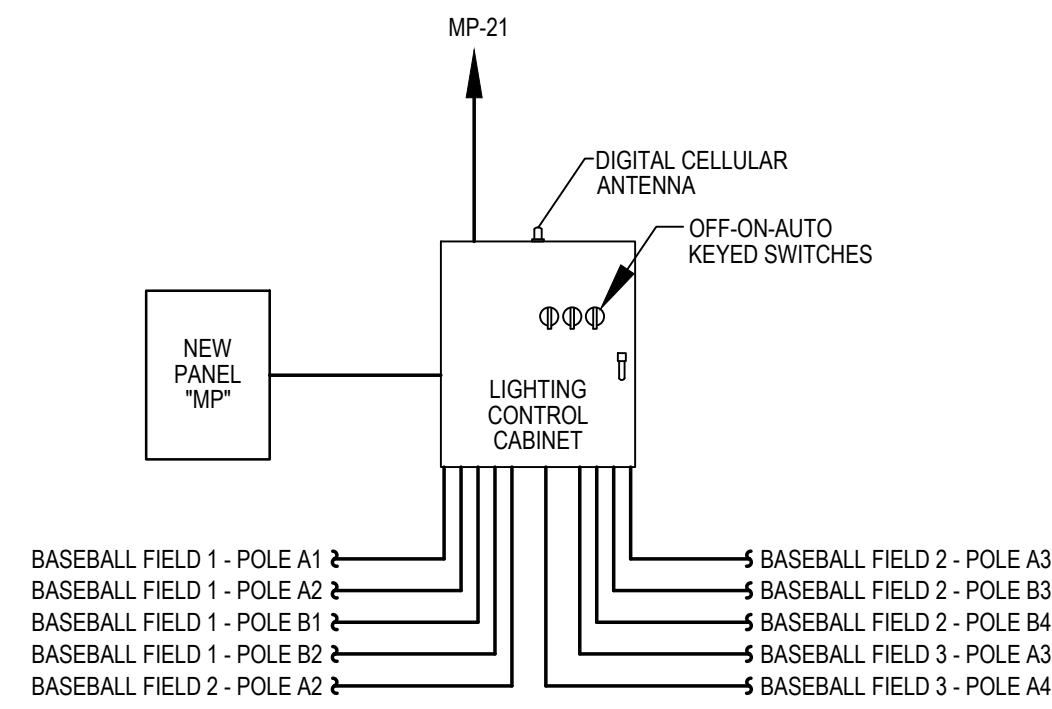


**PARKS AND RECREATION
BASEBALL AND SOFTBALL FIELDS**

CITY OF PEARL
320 CITY CENTER DRIVE
PEARL, MS 39208

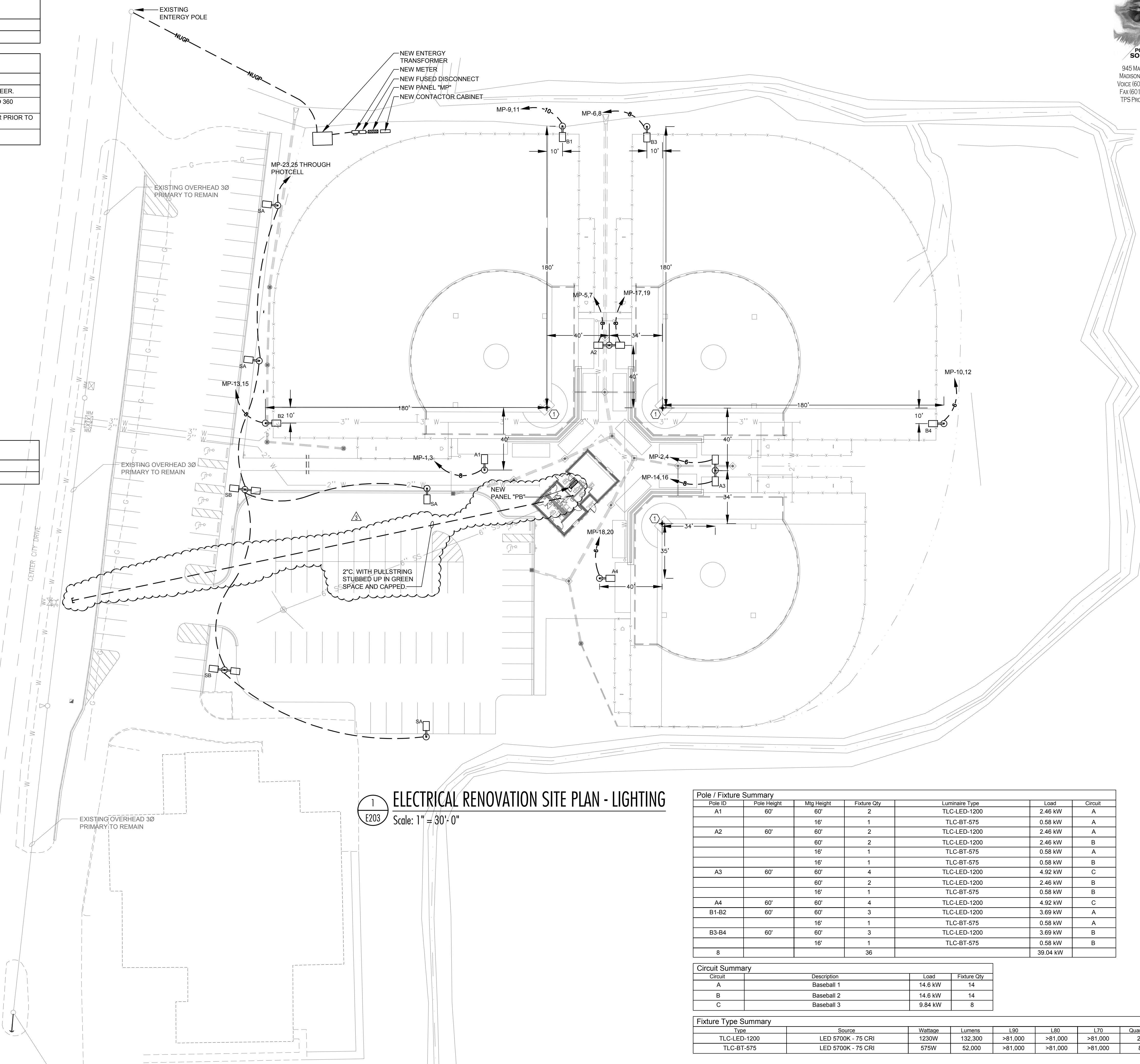
KEYED NOTES	
Mark	Description
①	DIMENSION REFERENCE POINT

GENERAL NOTES	
Mark	Description
1.	POLE FOUNDATION DESIGN SHALL BE BY A MISSISSIPPI LICENSED STRUCTURAL ENGINEER.
2.	PROVIDE QUAZITE PULLBOXES AS NEEDED SO THAT TOTAL BENDS SHALL NOT EXCEED 360 DEGREES.
3.	VERIFY ALL DIMENSION REFERENCE POINTS AND DIMENSIONS WITH LIGHTING VENDOR PRIOR TO ROUGH-IN.
4.	NO CONDUITS SHALL BE RAN UNDER BALL FIELDS.



② LIGHTING CONTROL CABINET DETAIL
Scale: NONE

WIRE LEGEND	
Mark	Description
-NUGP-	NEW UNDERGROUND PRIMARY

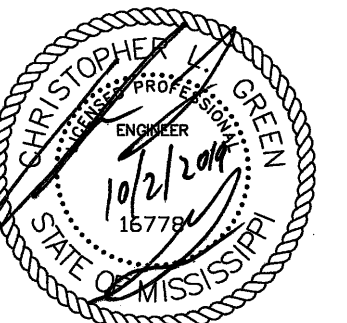


① ELECTRICAL RENOVATION SITE PLAN - LIGHTING
Scale: 1" = 30'-0"

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1	60'	60'	2	TLC-LED-1200	2.46 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
A2	60'	60'	2	TLC-LED-1200	2.46 kW	A
		60'	2	TLC-LED-1200	2.46 kW	B
		16'	1	TLC-BT-575	0.58 kW	A
		16'	1	TLC-BT-575	0.58 kW	B
A3	60'	60'	4	TLC-LED-1200	4.92 kW	C
		60'	2	TLC-LED-1200	2.46 kW	B
		16'	1	TLC-BT-575	0.58 kW	B
		16'	1	TLC-BT-575	0.58 kW	C
B1-B2	60'	60'	3	TLC-LED-1200	3.69 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
B3-B4	60'	60'	3	TLC-LED-1200	3.69 kW	B
		16'	1	TLC-BT-575	0.58 kW	B
8			36		39.04 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Baseball 1	14.6 kW	14
B	Baseball 2	14.6 kW	14
C	Baseball 3	9.84 kW	8

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	LED 5700K - 75 CRI	1230W	132,300	>81,000	>81,000	>81,000	28
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>81,000	>81,000	>81,000	8

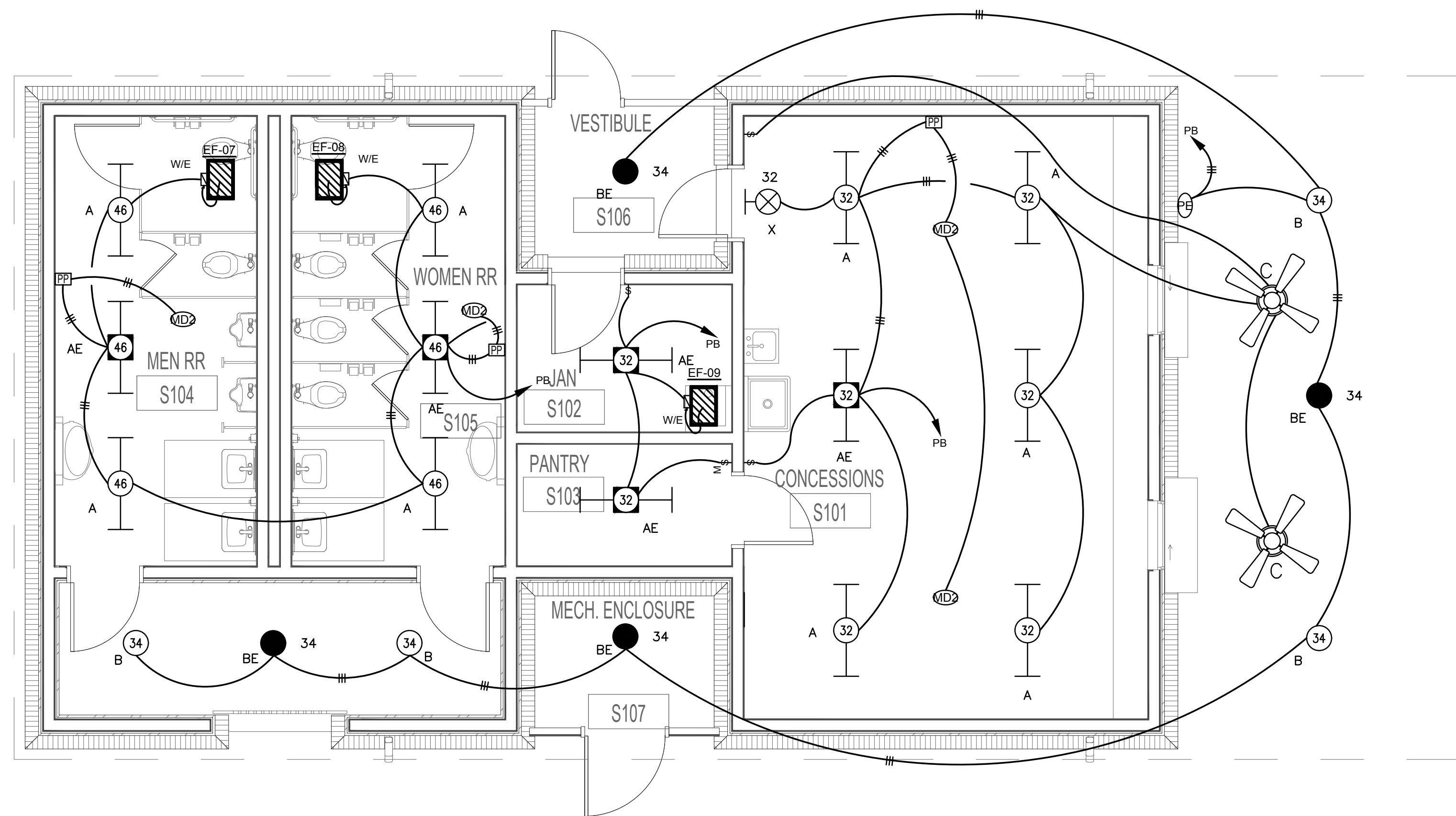


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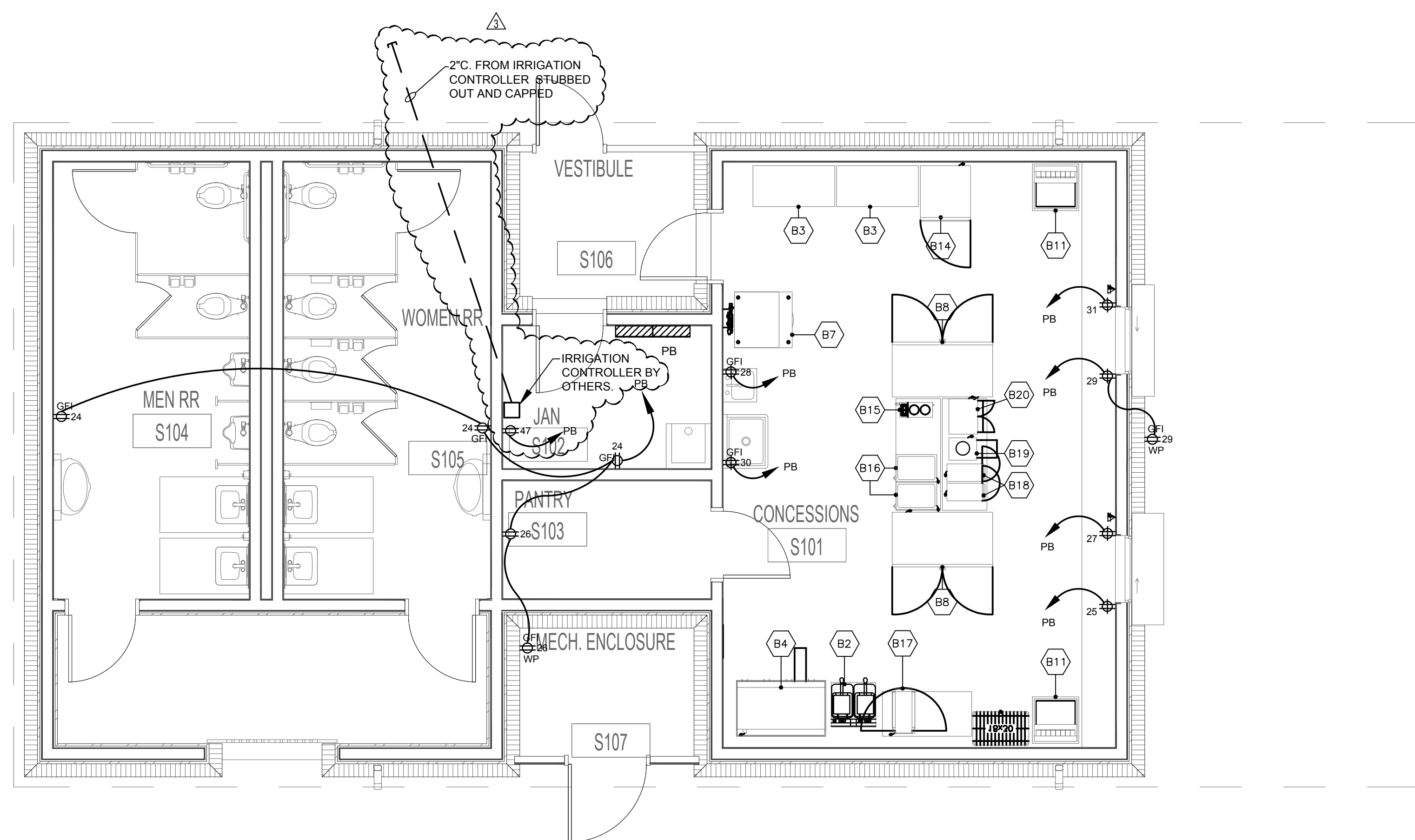
CONSTRUCTION DOCUMENTS
WBA # 3518

NO. DESCRIPTION DATE
ADDENDUM #3 10-25-19

E203
ELECTRICAL RENOVATION LIGHTING PLAN



1 LIGHTING PLAN - SOFTBALL CONCESSION
 Scale: 1/4" = 1'-0"



2 POWER PLAN - SOFTBALL CONCESSION
 Scale: 1/4" = 1'-0"

KITCHEN EQUIPMENT CONNECTIONS SCHEDULE-SMALL						
MARK	DESCRIPTION	VOLTAGE	PANEL	CIRCUITRY	LOCAL DISCONNECT	REMARKS
B2	COUNTERTOP FRYER	240V, 1Ø	PB	3#4, #8(G), 1-1/4"C.	100/24X	
B3a	FREEZER	120V, 1Ø	PB	2#12, #12(G), 1/2"C.	5-20R	
B3b	FREEZER	120V, 1Ø	PB	2#12, #12(G), 1/2"C.	5-20R	
B4	48" COUNTERTOP GRIDDLE	240V, 1Ø	PB	3#4, #8(G), 1-1/4"C.	100/24X	
B7	ICE MAKER W BIN	120V, 1Ø	PB	2#12, #12(G), 1/2"C.	5-20R	
B8a	REFRIGERATED REACH-IN MERCHAND	120V, 1Ø	PB	2#12, #12(G), 1/2"C.	5-20R	
B8b	REFRIGERATED REACH-IN MERCHAND	120V, 1Ø	PB	2#12, #12(G), 1/2"C.	5-20R	
B11a	SODA DISPENSER W ICE BIN	120V, 1Ø	PB	2#12, #12(G), 1/2"C.	5-20R	
B11b	SODA DISPENSER W ICE BIN	120V, 1Ø	PB	2#12, #12(G), 1/2"C.	5-20R	
B14	REACH-IN REFRIGERATOR	120V, 1Ø	PB	2#12, #12(G), 1/2"C.	5-20R	
B15	COFFEE BREWER	120V, 1Ø	PB	2#12, #12(G), 1/2"C.	5-20R	
B16a	COUNTERTOP FOOD WARMER	120V, 1Ø	PB	2#12, #12(G), 1/2"C.	5-20R	
B16b	COUNTERTOP FOOD WARMER	120V, 1Ø	PB	2#12, #12(G), 1/2"C.	5-20R	
B17	HEAT LAMP- FRY WARMER	120V, 1Ø	PB	2#12, #12(G), 1/2"C.	5-20R	
B18a	NACHO CHEESE AND CHILLI	120V, 1Ø	PB	2#12, #12(G), 1/2"C.	5-20R	
B18b	NACHO CHEESE AND CHILLI	120V, 1Ø	PB	2#12, #12(G), 1/2"C.	5-20R	
B19	CHIP WARMER	120V, 1Ø	PB	2#12, #12(G), 1/2"C.	5-20R	
B20	POPCORN MACHINE	120V, 1Ø	PB	2#12, #12(G), 1/2"C.	5-20R	

General Note 1: Prior to submitting electrical equipment brochures, the Contractor shall verify actual equipment submittal data and adjust equipment services accordingly.



10.02.2019

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