

South Haven Area Recreation Authority
Tuesday, March 1, 2016
3:00 p.m., South Haven Charter Township Hall
09761 Blue Star Highway

AGENDA

1. Call to order
2. Roll Call
3. Approval of Meeting Minutes
 - A. December 22, 2015 Board Meeting
4. Approval of Agenda
5. Interested citizens in the audience will be heard on items not on the agenda
6. Financial Reports:
 - A. Approval of SHARA finance report
 - B. Authority Board will be updated on the SHARP financial statement
 - C. Approval of SHARA FY 2016 budget proposal
7. Authority Board will be asked to set a public hearing, to occur on Tuesday, March 22, 2016, at 3:00 p.m., to consider a grant application to the MNRTF for phase two improvements at the Pilgrim Haven site.
8. Authority Board will be asked to set a public hearing, to occur on Tuesday, March 22, 2016, at 3:00 p.m., to consider a grant application to the MNRTF for a land acquisition grant for the 14th Avenue site.
9. Authority Board will receive an update on the proposed improvements to the SHPS fields.
10. Staff member comments
11. SHARA Board member comments
12. Adjourn

Respectfully Submitted,
Brian Dissette
South Haven City Manager

**South Haven Area Recreation Authority (SHARA)
Special Meeting**

**Tuesday, December 22, 2015
3:00 p.m., South Haven Charter Township Hall**

MINUTES

1. Call to Order

Meeting Opened at 3:00 p.m.

2. Roll Call

Members Present: Mr. Ross Stein, Mr. Dennis Fitzgibbon, Dr. Robert Herrera

Absent: Mr. Dana Getman, Mr. Mark McClendon

Guests: Mr. Brian Dissette, City Manager, City of South Haven
Mr. Tony McGhee, Abonmarche

3. Approval of Meeting Minutes:

November 24, 2015 Board Meeting: Motion by Herrera, seconded by Fitzgibbon to approve the minutes as presented. All in favor, motion carried.

4. Approval of Agenda:

Motion by Fitzgibbon, seconded by Herrera to approve the agenda of the December 23, 2015 meeting. All in favor, motion carried.

5. Interested Citizens in the Audience Will Be Heard on Items Not on the Agenda:

6. Approval of the SHARA Finance Reports:

- a) The board discussed the SHARA Finance Report, noting the SHARA account now has a balance of \$120,966.45.

Motion by Herrera, seconded by Fitzgibbon to approve the SHARA finance report. All in favor, motion carried.

- b) The board was updated on the SHARP account, which now has a balance of \$33,627.14.

- c) The board discussed the SHARA budget amendment, noting the SHARA budget needs to be adjusted to ensure all expenses were budgeted.

Motion by Fitzgibbon, seconded by Herrera to approve the SHARA budget adjustment report. All in favor, motion carried.

- d) The board discussed the SHARA budget proposal for the FY 2016, Dissette

noted that no action was needed for the proposed budget file.

7. SHARA Board was asked to consider approval of professional services agreement, with PRISM Consulting, in the amount of \$1,650, for an environmental study at the 14th Avenue site.

The board was provided an update on the planning and review efforts, led by Abonmarche Engineering, for the property at 14th Avenue being considered for acquisition. McGhee presented a recommendation to engage PRISM Consulting for a phase one environmental study, in the amount of \$1,650. McGhee noted that he had secured several quotes for the work, and PRISM was the low cost provider. The board discussed the need for the environmental study, with Dissette noting that PRISM had done several studies for the city, with no problems. Fitzgibbon noted the phase one study would be used to determine if additional testing is needed for the site.

Motion by Fitzgibbon, seconded by Herrera to approve the professional services agreement, with PRISM Consulting, in the amount of \$1,650, for an environmental study at the 14th Avenue site. All in favor, motion carried.

8. SHARA Board was asked to consider approval of Resolution 2015-04, an authorizing resolution for setting the meeting dates for 2016.

The board was asked to consider approval of Resolution 2015-04, an authorizing resolution for setting the SHARA board meeting dates for the 2016 calendar year.

Motion by Herrera, seconded by Fitzgibbon to approve Resolution 2015-04, an authorizing resolution for setting the meeting dates for 2016. All in favor, motion carried.

9. Staff member comments:

No comments.

10. Board member comments:

Fitzgibbon requested more information on the planned improvements at the SHPS owned soccer fields.

Stein indicated that he was pleased with the projects being worked on, and encouraged the board and non-members to keep the projects progressing in the 2016 calendar year. Stein further wished the board and attendees a merry Christmas.

11. Adjourn

Motion by Herrera, seconded by Fitzgibbon to adjourn the meeting. All in favor, motion carried. The meeting was adjourned at 3:30 p.m.

Respectfully submitted by,

Brian Dissette
City Manager, City of South Haven

South Haven Area Recreational Authority (SHARA)

ID # 45-2387500

<u>Date</u>	<u>Check #</u>	<u>Description</u>	<u>Deposit</u>	<u>Withdrawal</u>	<u>Balance</u>
19-Mar-15	Deposit	City of South Haven SHARA Support	8,806.00		111,801.00 120,607.00
19-Mar-15	1121	U.S. Liability Insurance Co. Public Officials Liability Ins.		170.00	120,437.00
31-Mar-15	Deposit	Chemical Bank March Interest	5.04		120,442.04
13-Apr-15	1122	Vredevelde Haefner LLC Audit for Year End 12/31/14		2,100.00	118,342.04
30-Apr-15	Deposit	Chemical Bank April Interest	4.92		118,346.96
			8,815.96	2,270.00	
26-May-15	1123	U.S. Liability Ins. Co. Policy # PO 1000879C		170.00	118,176.96
26-May-15	1124	City of South Haven Reimburse for Abonmarche bill		1,806.50	116,370.46
26-May-15	1125	Abonmarche Inv. #110786		193.50	116,176.96
31-May-15	Deposit	Chemical Bank May Interest	5.03		116,181.99
30-Jun-15	Deposit	Chemical Bank June Interest	4.78		116,186.77
			9.81	2,170.00	
24-Jul-15	Deposit	South Haven Area Resource Council Pilgrim Haven Contribution	15,000.00		131,186.77
31-Jul-15	Deposit	Chemical Bank July Interest	5.04		131,191.81
31-Aug-15	Deposit	Chemical Bank August Interest	5.57		131,197.38
			15,010.61	0.00	
14-Sep-15	1126	Septic Tank Systems Co. Portable 8/27-10/22		255.00	130,942.38
15-Sep-15	1127	Abonmarche Layout/Design of AYSO Fields with SHPS		3,517.75	127,424.63
30-Sep-15	Deposit	Chemical Bank September Interest	5.34		127,429.97
27-Oct-15	1128	U.S. Liability Ins. Co. 5 mo @ \$170		850.00	126,579.97
30-Oct-15	1129	City of South Haven Reimb for Pilgrim Haven Lease Dev.		3,724.00	122,855.97
31-Oct-15	Deposit	Chemical Bank October Interest	5.41		122,861.38
			10.75	8,346.75	
30-Nov-15	Deposit	Chemical Bank November Interest	5.07		122,866.45
1-Dec-15	1130	Abonmarche Cons;ultants Boundary/Topographic survey/AYSO fields/thru 7/31		1,900.00	120,966.45
15-Dec-15	1131	Abonmarche Cons;ultants Soccer Field Layout/Mtg/Bidding Docs thru 11/30		5,220.75	115,745.70
31-Dec-15	Deposit	Chemical Bank December Interest	5.09		115,750.79
			10.16	7,120.75	
19-Jan-16	Deposit	SH Township SHARA Support	7,966.00		123,716.79
19-Jan-16	1132	Abonmarche Prelim Design for Water Resource Grant		1,582.25	122,134.54
19-Jan-16	1133	Abonmarche Soccer Field Improvement Revisions/Docs/Estimates		3,236.25	118,898.29
31-Jan-16	Deposit	Chemical Bank January Interest	5.00		118,903.29
4-Feb-16	1135	Prism Science & Technology Phase 1 Site Assessment/Lappo property		1,650.00	117,253.29
			7,971.00	6,468.50	

City of South Haven
SHARP Cash Receipts & Expenditures

	Donations	Bank Int or Fee	Expenses	Lease Payment	Applied to Land Purchase	Administrative Assistant	Cash Balance
Nov-02	2,650.00	2.57					2,652.57
Dec-02	100.00	2.52					2,755.09
Jan-03		1.55					2,756.64
Feb-03		1.88					2,758.52
Mar-03		1.20					2,759.72
Apr-03		1.47					2,761.19
May-03	200.00	2.04					2,963.23
Jun-03	644.00	2.84					3,610.07
Jul-03		2.46					3,612.53
Aug-03		2.13					3,614.66
Sep-03		2.67					3,617.33
Oct-03		2.85					3,620.18
Nov-03	1,000.00	5.08					4,625.26
Dec-03		2.89					4,628.15
Jan-04	10,605.00	6.91	849.00				14,391.06
Feb-04	1,933.48	11.33	290.33				16,045.54
Mar-04	5,037.00	12.53	110.35				20,984.72
Apr-04	220.00	12.21	36.25				21,180.68
May-04	1,779.35	10.66	191.91				22,778.78
Jun-04	300.00	18.75	300.00				22,797.53
Jul-04	6,170.00	20.47	4,000.00				24,988.00
Aug-04	200.00	20.55	5,250.00				19,958.55
Sep-04	98.60	22.56	1,250.00				18,829.71
Oct-04	200.00	20.74	10.35				19,040.10
Nov-04	662.00	24.38					19,726.48
Dec-04	5,000.00	24.53					24,751.01
Jan-05	5,315.51	31.65	4,522.08				25,576.09
Feb-05		34.06					25,610.15
Mar-05	4,307.93	40.80	60.00				29,898.88
Apr-05		38.93					29,937.81
May-05		67.53					30,005.34
Jun-05	1.59	41.81					30,048.74
Jul-05		40.18					30,088.92
Aug-05		40.74					30,129.66
Sep-05	426.59	49.54					30,605.79
Oct-05		85.37			7,500.00		23,191.16
Nov-05		43.30	800.00				22,434.46
Dec-05	1.59	46.81	3,000.00				19,482.86
Jan-06		46.60	2,141.50				17,387.96
Feb-06		36.99	962.24				16,462.71
Mar-06		35.94	21.00				16,477.65
Apr-06	1.65	36.51	9.85				16,505.96
May-06		23.02	296.26				16,232.72
Jun-06	351.65	18.20			7,500.00		9,102.57
Jul-06		15.18					9,117.75
Aug-06		16.99					9,134.74
Sep-06	1.65	43.09					9,179.48
Oct-06		27.12	1.35				9,205.25
Nov-06		20.69					9,225.94

City of South Haven
SHARP Cash Receipts & Expenditures

	Donations	Bank Int or Fee	Expenses	Lease Payment	Applied to Land Purchase	Administrative Assistant	Cash Balance
Dec-06		33.55	2,500.00				6,759.49
Jan-07		76.90	2,500.00				4,336.39
Feb-07	1.65	32.17					4,370.21
Mar-07		29.94	2,897.58				1,502.57
Apr-07	101.71	20.95					1,625.23
May-07	1,923.00	18.83	2,500.00				1,067.06
Jun-07	1.71		2,594.28				(1,525.51)
Jul-07	100.00		2,541.77				(3,967.28)
Aug-07	1,050.00		2,509.65				(5,426.93)
Sep-07			2,540.34				(7,967.27)
Oct-07	1,001.71		2,552.20				(9,517.76)
Nov-07	1,000.00		2,566.53				(11,084.29)
Dec-07	106,434.00	96.05	5,115.31				90,330.45
Jan-08	5,566.12	157.92					96,054.49
Feb-08	2,600.00		4,459.77		95,896.57		(1,701.85)
Mar-08	4,515.00		2,770.16		42.99		(0.00)
Apr-08	1,380.47		2,500.95				(1,120.48)
May-08	5,500.00	1.66			4,381.18		0.00
Jun-08	1,239.27	33.38	36.47			1,076.13	160.05
Jul-08	11,700.00	35.93					11,895.98
Aug-08	100.00	2.20	42.91		9,000.00	1,285.67	1,669.60
Sep-08	5,500.00	48.75	43.68		5,000.00	905.65	1,269.02
Oct-08	650.00	2.77	74.91			976.68	870.20
Nov-08		0.49	36.93			216.65	617.11
Dec-08	10,000.00	38.28	2,318.72			198.89	8,137.78
Jan-09	90,686.47	9.26	32.24		90,000.00	799.10	8,002.17
Feb-09	350.00	6.21	68.30			699.66	7,590.42
Mar-09	1,000.00	6.70	28.14			720.97	7,848.01
Apr-09	11,090.00				10,000.00	703.21	8,234.80
May-09	2,285.00		28.12			443.95	10,047.73
Jun-09	57,601.89	11.08	1,637.29		60,245.77	287.68	5,489.96
Jul-09	62,300.00		29.92		65,000.00		2,760.04
Aug-09	71,998.00	0.43	772.50		70,000.00		3,985.97
Sep-09	7,036.66	2.45	507.50				10,517.58
Oct-09	27,906.00	1.54	446.25				37,978.87
Nov-09		9.92	473.15				37,515.64
Dec-09	3,333.34	1.91	2,780.00				38,070.89
Jan-10	5,060.00	3.86					43,134.75
Feb-10	360.00	3.44	376.26				43,121.93
Mar-10		6.81	136.32				42,992.42
Apr-10	6,435.12	3.93	581.88				48,849.59
May-10		2.62	365.00				48,487.21
Jun-10		3.63	1,956.95				46,533.89
Jul-10	1,000.00	2.33					47,536.22
Aug-10	1,000.00	2.65	827.25				47,711.62
Sep-10	105.00	3.17					47,819.79
Oct-10		5.90					47,825.69
Nov-10	100,500.00	5.03					148,330.72
Dec-10	1,666.67	9.15	40,062.29				109,944.25

City of South Haven
SHARP Cash Receipts & Expenditures

	Donations	Bank Int or Fee	Expenses	Lease Payment	Applied to Land Purchase	Administrative Assistant	Cash Balance
Nov-14							24,394.14
Dec-14			9,230.00				33,624.14
Jan-15							33,624.14
Feb-15							33,624.14
Mar-15		1.44					33,625.58
Apr-15							33,625.58
May-15							33,625.58
Jun-15							33,625.58
Jul-15	15,000.00			15,000.00			33,625.58
Aug-15							33,625.58
Sep-15		1.56					33,627.14
Oct-15							33,627.14
Nov-15	3,724.00			3,724.00			33,627.14
Dec-15				2,579.49			31,047.65
Jan-16			11,360.00	95.00			42,312.65
Feb-16							42,312.65

	Donations	Interest Earnings	Farm Lease	Expenses	Applied to Land Purchase	Administrative Assistant	Cash Balance
	775,117.05	1,917.85	20,590.00	322,431.50	424,566.51	8,314.24	42,312.65

**SOUTH HAVEN AREA RECREATION AUTHORITY
PROPOSED BUDGET
FOR THE CALENDAR YEAR JANUARY 1 TO DECEMBER 31, 2016**

REVENUES:

CITY OF SOUTH HAVEN	\$2 Per Capita	\$ 8,806
SOUTH HAVEN CHARTER TWP	\$2 Per Capita	\$ 7,966
PRIVATE GRANT		\$ -
INTEREST INCOME		\$ 100
	TOTAL REVENUES	<u>\$ 16,872</u>

EXPENSES:

ADMINISTRATIVE COSTS		\$ 1,000
INSURANCE		\$ 1,500
AUDIT		\$ 2,500
PROFESSIONAL FEES - CONSULTING		\$ 11,871
ANNUAL LEASE PAYMENT		\$ 1
	TOTAL EXPENSES	<u>\$ 16,872</u>
	SURPLUS	\$ -

Date: February 26, 2016

To: SHARA Board of Directors

From: Brian Dissette, City Manager

Subject: Schedule Public Meeting for 2016 Michigan Natural Resources Trust Fund Application – Pilgrim Haven

Requested Action

The SHARA Board will be asked to schedule a public meeting as part of the March 22, 2016, meeting to solicit input for SHARA's 2016 Michigan Natural Resources Trust Fund (MNRTF) application.

Background and Project Scope

In 2014, SHARA and the Southwest Michigan Land Conservancy (SWMLC) finalized several years' worth of discussions which lead to a formal agreement that resulted in SHARA managing the Pilgrim Haven natural area and the planned improvements for the site.

During the lead up to this, numerous public input sessions, including a design charrette, to collect input from the broader South Haven community about the desired use of Pilgrim Haven were conducted. The public expressed support for low-intensity public access to Lake Michigan, while allowing passive recreational uses onsite to ensure the preservation of the site's natural features. Recognizing that the characteristics of the site lend themselves well to barrier-free and universal access features, that design component has become a major feature of planned improvements. Universally-designed projects are a critical factor in Michigan Department of Natural Resources (MDNR) grant scoring.

With SHARA's commitment to manage Pilgrim Haven, SWMLC and SHARA have turned their attention to funding and implementing the planned improvements. The first step in this effort is implementing the MNRTF grant which SWMLC secured to undertake the first phase of planned improvements to the site. These improvements included developing a stone parking lot on the site with some spaces paved for ADA accessibility, constructing a concrete access route to the beach for persons of all abilities including the placement of a beach matting, lighting for the parking area, and sidewalks installed around the parking area. This work is to be paid for through a \$50,000 MRTF grant referenced above that is being matched through in-kind services and some local funding. The design work is currently underway for this first phase and will be completed by the end of March 2016 with construction slated to be completed before the end of 2016.

In January 2016, the SWMLC submitted a Coastal Zone Management grant focused on expanding on and accentuating some of the Phase I improvements planned on the

property. The project team should have some inclination as to the likelihood of the CZM grant being funded during the Spring of 2016.

To keep the momentum moving on this project, SHARA is asked to consider seeking public input and support related to submitting a new MNRTF grant to undertake the Phase II projects at Pilgrim Haven. Phase II would include paving the rest of the parking lot, construction of a double pit toilet structure to service the site, installing an electronic control gate at the entry, installing a kayak/canoe rack at the beach (this feature should help secure additional points from the MDNR, as the site is located on the Lake Michigan water trail.) The proposed grant elements align with the site plan requirements issued by the South Haven Charter Township's Planning Commission.

Project Budget

The Phase II project is anticipated to cost \$140,015, with \$98,011 coming from the MNRTF and the balance from local sources including SHARA, private donations, and possible contributions from South Haven Charter Township and the City of South Haven.

Recommendation

Staff recommends approval and setting a public hearing to solicit input on the Pilgrim Haven Phase II project as required by the MNRTF for the March 22, 2016 SHARA meeting

Support Material

Attachment A: Preliminary Sit Plan (Phase I and Phase II elements notes)

Attachment B: Preliminary Budget



Attachment A



Attachment B



95 West Main Street
 P.O. Box 1088
 Benton Harbor, MI 49023
 T 269.927.2295
 F 269.927.1017
 www.abonmarche.com

Project Name: Pilgrim Haven
 Project Number: 15-0651
 Date: Thursday, February 25, 2016

Phase 2 Improvement Items

Item	Unit	Quantity	Unit Cost	Item Cost
Pave Gravel Parking Lot, 3 inch	TON	400	\$ 150.00	\$ 60,000.00
Parking Lot Striping	ALLOW	1	\$ 2,000.00	\$ 2,000.00
New Pit Toilet (2)	ALLOW	1	\$ 15,000.00	\$ 15,000.00
New Control Gate	ALLOW	1	\$ 20,000.00	\$ 20,000.00
New Kayak Rack and pad	EA	1	\$ 3,800.00	\$ 3,800.00
New Concrete Sidewalk, 6 inch (Pit toilet)	SFT	200	\$ 8.00	\$ 1,600.00
New Trash Receptacle	EA	2	\$ 1,200.00	\$ 2,400.00
New Bench	EA	2	\$ 1,500.00	\$ 3,000.00
New Dogspot Station	EA	1	\$ 600.00	\$ 600.00
New Landscape - Additional Trees	EA	8	\$ 350.00	\$ 2,800.00
New Woven Wire Fence	LFT	1545	\$ 7.00	\$ 10,815.00
Construction Sub-Total:				\$ 122,015.00
Professional Fees			14.75%	\$ 18,000.00
Construction Grand Total				\$ 140,015.00

Date: February 25, 2016
To: SHARA Board
From: Brian Dissette, City Manager
Subject: Schedule Public Meeting for 2016 Michigan Natural Resources Trust Fund Application – 14th Avenue Parcel

Requested Action

The SHARA Board will be asked to schedule a public meeting as part of the March 22, 2016, meeting to solicit input for SHARA's 2016 Michigan Natural Resources Trust Fund (MNRTF) application for the 14th Avenue parcel for the development of recreational fields.

Background and Project Scope

With the decision not to proceed to develop the Casco Township based SHARP parcel for recreational fields the SHARA Board requested Abonmarche to assess several large properties in the area for the development of recreational fields. A total of five (5) sites were assessed for development potential. Based on the work undertaken during that feasibility assessment, a 40 parcel of land on 14th Avenue in South Haven Charter Township was identified as the option with the most potential. Upon identifying this parcel, a preliminary site investigation and design were completed and the site has good development potential for soccer fields, baseball/softball fields or some combination of the two.

Furthermore, with its location adjacent the Van Buren Trail it is easily accessible via non-motorized transportation. In addition to this work, a Phase I environmental assessment has been completed for the property. The preliminary indications are the site will be suitable for the planned development and a MNRTF grant is being anticipated to pay for a portion of the acquisition costs.

Project Budget

The asking price on the property is currently \$399,000 which would result in a grant request of \$300,000 to be matched by \$99,000 plus closing costs from local match sources. An appraisal has been ordered for the property and will be used for the negotiation of a final sales price.

Recommendation

Staff recommends approval and setting a public hearing to solicit input on the 14th Avenue acquisition project as required by the MNRTF for the March 22, 2016 SHARA meeting

Support Material

Attachment A: Site Investigation Memo



Attachment A

MEMORANDUM

DATE: November 16, 2015

TO: Ross Stein, Township Supervisor - South Haven Charter Township
Brian Dissette, City Manager - City of South Haven

FROM: Jason W. Marquardt, P.E.

RE: 14th Street Recreational Facility Site Assessment

A preliminary site investigation was conducted for the 14th Street parcel located in South Haven Township, southeast of the 14th Street/Van Buren Trail intersection. The City and Township are interested in potentially purchasing the site and developing a recreation park including soccer fields, baseball/softball fields, parking, and a restroom/concession building (see attached proposed site plan). The site proximity to both Blue Star Highway and the Van Buren Trail make it a convenient location for a future recreational complex.

On November 3, 2015 staff performed an on-site review to help determine the existing conditions and feasibility of the proposed development. The investigation included a walk-through, general vegetation assessment, identification of wet areas, identification of building/hardscape remnants, and any large scale elevation changes.

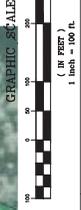
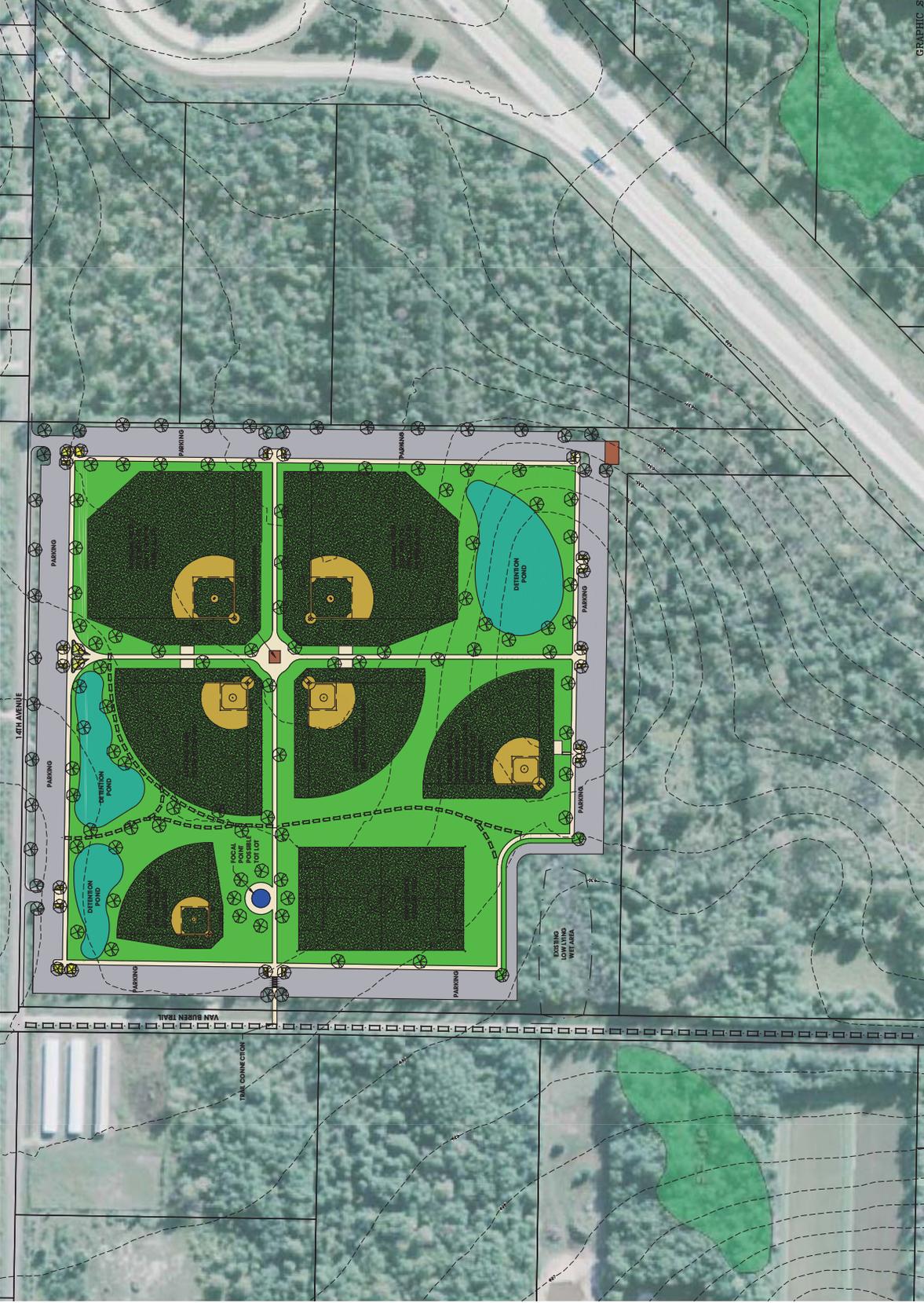
The parcel is approximately 40 acres in size, relatively flat, and heavily vegetated throughout. FEMA maps reveal the area as an Area of Minimal Flood Hazard. The DEQ Wetlands Map Viewer was reviewed for the presence of potential jurisdictional wetlands. No National Wetlands Inventory (NWI) or Michigan Resource Inventory System (MIRIS) wetlands are within the parcel but the NW corner of the parcel may still contain wetland soils. See attached wetland map.

There are two drainage ditches on the northerly and westerly bounds of the parcel, most likely constructed to capture the runoff from 14th street and the Van Buren Trail, respectively. The 14th Street ditch appears to be regularly mowed and the Van Buren Trail ditch is densely vegetated with plants typical in wet soils. There is sanitary sewer and watermain on 14th Street and an electrical trunk line running along the westerly limits of the parcel.

Overall observations and classifications are summarized on the attached site assessment map. As noted, the parcel is heavily vegetated and will require significant clearing in preparation for development. Brush hogging is recommended before a topographic survey can be performed. Future investigations should also include soil borings and possibly a wetland delineation.

Site investigation indicates that the 14th Street parcel is suitable for the proposed development of a recreation park. Preliminary site plans include two (2) baseball fields, three (3) softball fields, one (1) little league field, and one (1) high-school sized soccer field. Additional site amenities include a centralized concession/restroom building, accessible sidewalks connecting the fields, perimeter parking, and detention ponds to accommodate storm water runoff. There would be two (2) motor vehicle entrances at the northeast and northwest corners as well as a trail connection on the westerly limits for non-motorized accessibility from the Van Buren Trail. The proposed use of this facility makes it a likely candidate for a MDNR Trust Fund Grant – Acquisition application.





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Wetlands Map Viewer



November 13, 2015

Part 303 Final Wetlands Inventory

- Wetlands as identified on NWI and MIRIS maps
- Soil areas which include wetland soils

- Wetlands as identified on NWI and MIRIS maps and soil areas which include wetland soils

- Wetland (Hydric) Soils
- National Wetlands Inventory

Disclaimer: This map is not intended to be used to determine the specific locations and jurisdictions of wetland areas subject to regulation. More information regarding this map, including how to obtain a copy can be accessed at www.michigan.gov/wetlands.
Map by: State of Michigan - CSS
copyright 2015

SHEET TITLE: 14TH AVENUE PARCEL SITE ASSESSMENT

DATE:	NOV 2015
SCALE:	
DRAWN BY:	ES
DESIGNED BY:	ES
CHECKED BY:	ES
DATE CHECKED:	

NO. 15-0048

DATE: 11/11/15

SCALE: 1" = 100'

PROJECT: SOUTH HAVEN AREA RECREATION ASSESSMENT



Date: February 26, 2015

To: Brian Dissette, City of South Haven, Ross Stein, South Haven Township

From: Jason W. Marquardt, PE

Re: SHARA/AYSO Soccer Field Improvement Project

Brian/Ross,

This memo is intended to summarize the anticipated project schedule, project scope, and need for temporary soccer sites during construction.

I. Bid & Construction Schedule

Below is the anticipated schedule for the SHARA/AYSO soccer field improvements project as we prepare to advertise.

2/28/2016 Advertise
3/17/2016 Bid Opening, 2:00 pm @ Abonmarche Benton Harbor (95 W. Main)
3/29/2016 Award (or earlier if feasible)
4/11/2016 Earliest construction commencement
5/27/2016 Construction Completion (7 weeks, weather permitting)
(germination period, contingent upon irrigation system award)
8/18/2016 Playing surface ready
9/1/2016 Fall season start
Reseed after fall season

* The above schedule will prevent the use of the fields for the spring season and any planned summer camps.

II. Bid Package

a. Base Bid

- i. Mobilization, general conditions, SESC
- ii. Grading & drainage system
- iii. Site restoration, seeding
- iv. 6' high fence along Le Grange Street

- b. Bid Alternate 1 – Irrigation System
 - i. Water tap in Le Grange Street & associated traffic control
 - ii. Irrigation system, complete

- c. Bid Alternate 2 – Parking Lot Improvements
 - i. 6" concrete drive approach from Ayleworth Ave
 - ii. Gravel regrading, salvaged & new

- d. Bid Alternate 3 – Tree Planting
 - i. Evergreen trees, 8', along Le Grange St. & south line

III. Engineer's Estimate

The following is a summary of the latest engineer's estimate. Please keep this information confidential as it will not be released to bidders:

a. Base Bid	\$ 170,527
b. Bid Alt 1	\$ 75,500
c. Bid Alt 2	\$ 23,000
d. <u>Bid Alt 3</u>	<u>\$ 15,200</u>
Total	\$ 284,227

IV. Need for Temporary Soccer Sites

During construction and during the germination period of the playing surface, the SHARA/AYSO fields will not be available. As such, temporary soccer fields will be needed during this time. The following are anticipated periods during which temporary fields are needed:

April 1 – May 31 Spring AYSO season

Mid June, 1-week Summer Camp (dates not yet available)

In addition, if the irrigation system is not awarded due to budgetary constraints, the fall season could be affected, requiring additional temporary soccer sites.

If there are any questions or comments please let me know.



Project Name: AYSO Soccer Fields
 Project Number: 15-0503

Base Bid 1: Soccer Field Development

<i>Item Description</i>	<i>Quantity</i>	<i>Unit</i>	<i>Unit Bid Price</i>	<i>Total Bid Price</i>
a. Mobilization	1	LS	\$ 5,000.00	\$ 5,000.00
b. Fill	5039	CYD	\$ 7.00	\$ 35,273.00
c. Site Grading	1	LS	\$ 30,000.00	\$ 30,000.00
d. Inline Drains	20	EA	\$ 300.00	\$ 6,000.00
e. Storm Sewer, ADS, 8 inch, Perforated with sock	1193	FT	\$ 20.00	\$ 23,860.00
f. Storm Sewer, ADS, 12 inch	339.3	FT	\$ 30.00	\$ 10,179.00
g. Storm Sewer, ADS, 12 inch, Perforated with sock	395.5	FT	\$ 30.00	\$ 11,865.00
h. Catch Basin, 4' dia.	2	EA	\$ 3,000.00	\$ 6,000.00
i. Site Restoration	7	ACRE	\$ 3,500.00	\$ 24,500.00
j. Soil Erosion Control Measures	1	LS	\$ 5,000.00	\$ 5,000.00
k. 6' High chain link fence	514	LFT	\$ 25.00	\$ 12,850.00
Total for Base Bid 1: Soccer Field Development				\$ 170,527.00

Bid Alternate 1 - Water Service/Irrigation

<i>Item Description</i>	<i>Quantity</i>	<i>Unit</i>	<i>Unit Bid Price</i>	<i>Total Bid Price</i>
a. Traffic control	1	ALLOW	\$ 12,500.00	\$ 12,500.00
b. Water tap (incl saw cut, removal, restore, hyd, etc)	1	ALLOW	\$ 28,000.00	\$ 28,000.00
c. Irrigation system, complete	1	ALLOW	\$ 30,000.00	\$ 35,000.00
Total for Bid Alternate 1 - Water Service/Irrigation				\$ 75,500.00

Bid Alternate 2 - Parking Improvements

<i>Item Description</i>	<i>Quantity</i>	<i>Unit</i>	<i>Unit Bid Price</i>	<i>Total Bid Price</i>
a. 6" Concrete Drive Approach	1	LS	\$ 5,000.00	\$ 5,000.00
b. Gravel, 6" salvaged and new	3600	SYD	\$ 5.00	\$ 18,000.00
Total for Bid Alternate 2 - Parking Improvements				\$ 23,000.00

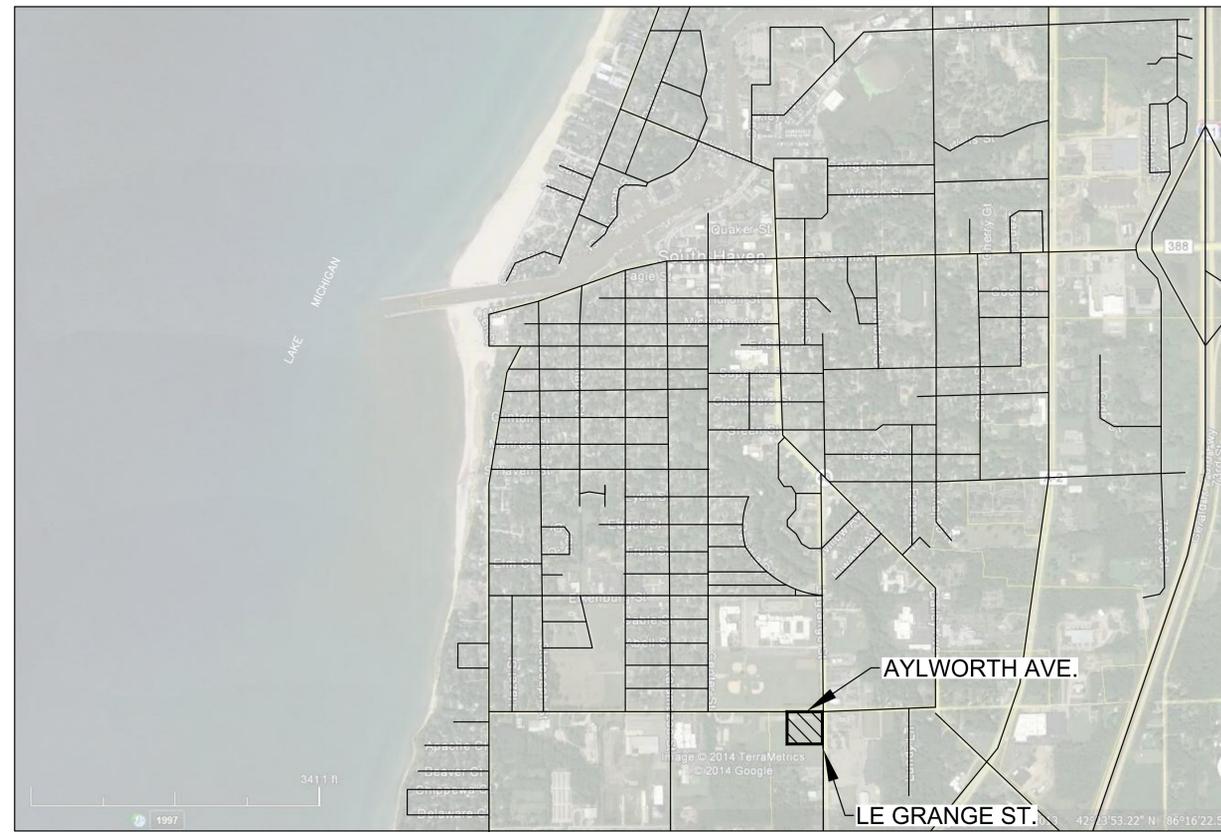
Bid Alternate 3 - Evergreen Tree Planting

<i>Item Description</i>	<i>Quantity</i>	<i>Unit</i>	<i>Unit Bid Price</i>	<i>Total Bid Price</i>
a. Evergreen Tree, 8' BB	38	EA	\$ 400.00	\$ 15,200.00
Total for Bid Alternate 3 - Evergreen Tree Planting				\$ 15,200.00

Grand Total \$ 284,227.00

SHEET INDEX	
SHT NO.	DESCRIPTION
1	COVER SHEET
2	NOTES & SPECIFICATIONS
3	SITE PLAN
4	DRAINAGE PLAN
5	GRADING PLAN
6	TRAFFIC MAINTENANCE PLAN AND WATER MAIN DETAIL

SHARA SOCCER FIELDS IMPROVEMENT PROJECT



PROJECT LOCATION MAP
NOT TO SCALE



LOCAL UTILITIES

GAS:
MICHIGAN GAS UTILITIES
SCOTT PURUCKER
711 STARLITE DR.
BENTON HARBOR, MI 49022
(269) 927-5531

SEWER & WATER:
CITY OF SOUTH HAVEN
PUBLIC WORKS
RON DOTSON
1199 8TH AVENUE
SOUTH HAVEN, MI 49090
(269) 637-0719

ELECTRIC:
CITY OF SOUTH HAVEN
ELECTRIC DEPT.
JIM PEZZUTO
1199 8TH AVENUE
SOUTH HAVEN, MI 49090
(269) 637-0756

CABLE:
COMCAST
JOE SCHOPF
11921 EAST M-89
RICHLAND, MI 49083
(269) 203-7199

TELEPHONE:
FRONTIER COMMUNICATIONS
MIKE KARLE
601 N. US-131
THREE RIVERS, MI 49093
(269) 273-0383

CALL MISS DIG

1-800-482-7171 OR 811

FOR PROTECTION OF THE UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CALL MISS DIG A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING CONSTRUCTION OPERATIONS. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE PART OF THE "MISS DIG" ALERT SYSTEM.



Know what's below.
Call before you dig.



GENERAL SITE NOTES:

1. THE ENGINEER WILL COMPLETE ONE (1) STAKING OF THE PROJECT FOR THE SOCCER FIELD GRADING LIMITS AND THE DRAINAGE PIPING.
2. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SITE ELEMENTS NOT SCHEDULED FOR REMOVAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S ACTIONS WILL BE REPLACED OR REPAIRED TO THE OWNER'S SATISFACTION AT NO COST TO THE OWNER.
3. THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH THE SITE CONDITIONS AND FOR HIS OWN MEANS AND METHODS FOR SAFE AND PROPER CONSTRUCTION OF THE SCOPE OF WORK.
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY COMPANIES AND IS CAUTIONED SPECIFICALLY REGARDING THE OVERHEAD UTILITY LINES WHICH SURROUND THE PERIMETER OF THE SITE.
5. ALL CONSTRUCTION ACTIVITIES SHALL BE WITHIN THE PROPERTY LIMITS, EXCEPT FOR THE WATER TAP AND PORTIONS OF THE STORM SYSTEM. THE CONTRACTOR SHALL MINIMIZE DISTURBANCE AREA TO THE EXTENT POSSIBLE OUTSIDE OF THE PROPERTY LIMITS FOR THE WATER TAP AND STORM SYSTEM.

SOIL EROSION CONTROL MEASURES:

1. THE LUMP SUM BID FOR SOIL EROSION CONTROL MEASURES INCLUDES BUT IS NOT NECESSARILY LIMITED TO FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO OBTAIN A SOIL EROSION AND SEDIMENTATION CONTROL PERMIT (SESC), AND TO IMPLEMENT ALL ASSOCIATED BEST MANAGEMENT PRACTICES (BMP).

SITE RESTORATION & SITE GRADING:

1. THE UNIT PRICE BID FOR SITE RESTORATION INCLUDES BUT IS NOT NECESSARILY LIMITED TO FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO REMOVE AND PROPERLY DISPOSE OF DEBRIS, FILL HOLES AND RUTS RESULTING FROM CONSTRUCTION; CONDUCTING SOIL TESTS; PROPERLY PREPARE SURFACES, PLACE/PLANT SEED, COORDINATING WITH IRRIGATION, AND ALL WATERING TO RESTORE THE SITE TO ACHIEVE A STABLE AND ESTABLISHED TURF PLAYING SURFACE SUITABLE AS A PLAYING FIELD AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
2. THE LUMP SUM BID FOR SITE GRADING INCLUDES BUT IS NOT NECESSARILY LIMITED TO FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO GRADING AND PREPARING THE EARTH BED, PLACING AND GRADING TOPSOIL, AND REMOVAL OF ROCKS TO ACHIEVE THE ELEVATIONS AND SLOPES AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
3. THE UNIT PRICE FOR FILL INCLUDES BUT IS NOT NECESSARILY LIMITED TO FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO PROVIDING, HAULING, AND PLACING MATERIAL TO ACHIEVE THE GRADES AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
4. SHOULD THE CONTRACTOR REQUEST PAYMENT FOR A FILL VOLUME OVER THE ESTIMATED VOLUME SHOWN HEREON, THE CONTRACTOR WILL BE RESPONSIBLE FOR FURNISHING AS-BUILT SURVEY DATA OF THE COMPLETED FILL TO ALLOW CONFIRMATION OF THE FILL IN-PLACE. IN ANY CASE, THE CONTRACTOR SHALL SUPPLY LOAD TICKETS FOR PAYMENT.
5. THE CONTRACTOR SHALL NOT OVERLY COMPACT THE FINISHED SURFACE TO ALLOW SEEDING AND RESTORATION TO TAKE PLACE.
6. THE CONTRACTOR SHALL STRIP OFF A MINIMUM OF 6" TOPSOIL THROUGHOUT THE GRADING LIMITS AND STOCKPILE AT A LOCATION APPROVED BY THE ENGINEER. THE 6" OF TOPS SOIL SHALL BE REPLACED TO COMPLETE THE FINAL GRADING OF THE NEW SOCCER FIELD AND SWALE ELEVATIONS. CONTRACTOR SHALL REMOVE ANY ORGANIC MATTER INCLUDING ROOTS, TWIGS, BRANCHES AND ROCKS PRIOR TO SPREADING AND FINE GRADING. THE CONTRACTOR MUST OBTAIN ENGINEER APPROVAL PRIOR TO SEEDING. ALL WORK ASSOCIATED WITH GRADING SHALL BE INCLUDED IN THE ITEM FOR SITE GRADING.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL WATERING NEEDED TO FULLY ESTABLISH THE RESTORATION OF THE SITE. THE SITE NEEDS TO BE FULLY RESTORED AND PLAYABLE FOR SOCCER BY AUGUST 15, 2016.
8. SEEDING SHALL BE KENTUCKY BLUE GRASS BLEND (80%) WITH A MINIMUM OF 3 TURF TYPE VARIETIES SPECIALLY DESIGNED FOR MIDWEST AND ATHLETIC FIELD APPLICATIONS. ADD 20% PERENNIAL RYE GRASS FOR FASTER ESTABLISHMENT AND COVER. SUBMIT PROPOSED GRASS SEED BLEND PRIOR TO PURCHASE. WELL PREPARE THE SEEDBED. METHOD OF INSTALLATION SHALL BE HYDROSEED OR METHOD APPROVED BY ENGINEER. INCLUDE STARTER LAWN FERTILIZER AT A RATE PER MANUFACTURER RECOMMENDATIONS AND INDUSTRY STANDARDS. INSTALL A MINIMUM LAWN SEED RATE OF 4LBS/1000 SFT FOR BLUEGRASS AND A MINIMUM RATE OF 5LBS PER/1000 SFT FOR PERENNIAL RYEGRASS. OVERSEED WASHOUT AND THIN AREAS (IF ANY NEEDED) A MINIMUM OF ONE TIME. PROVIDE FERTILIZING PROGRAM/WEED CONTROL FOR SUMMER GROWING MONTHS (A MINIMUM OF THREE APPLICATIONS). FALL OVERSEEDING AND WINTER FERTILIZING FOR FALL 2016 SHALL BE INCLUDED.
9. COORDINATE WITH IRRIGATION TO PROVIDE ADEQUATE WATERING FOR NEW SEED MIX PER SEED MANUFACTURER RECOMMENDATIONS.
10. SEEDING CONTRACTOR TO INSPECT FINE GRADED TOPSOIL AND REMOVE ANY REMAINING DEBRIS PRIOR TO HYDROSEEDING.

IRRIGATION SYSTEM:

1. THE LUMP SUM BID FOR WATER MAIN TAP INCLUDES BUT IS NOT NECESSARILY LIMITED TO FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO PROPERLY SAW CUT AND REMOVE PAVEMENT, EXCAVATE, LIVE WATER MAIN TAP, DISINFECT, INSTALL PIPING TO DOWNSTREAM WATER METER, INSTALL WATER VALVE, INSTALL VALVE BOX, INSTALL WATER METER, INSTALL FIRE HYDRANT, INSTALL BACKFLOW PREVENTION DEVICE, BACKFILL AND COMPACTION, FULL PAVEMENT RESTORATION, CURB RESTORATION, AND ALL TESTING AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
2. PAVEMENT RESTORATION FOR WATER TAP SHALL INCLUDE 9" NONREINFORCED CONCRETE PAVEMENT WITH MDOT STANDARD DETAIL FOR CRG JOINTS AT BOTH ENDS OF THE PAVEMENT REPAIR.
3. THE LUMP SUM PRICE FOR IRRIGATION SYSTEM, COMPLETE INCLUDES BUT IS NOT NECESSARILY LIMITED TO FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO PROPERLY CONSTRUCT A FULLY FUNCTIONAL AND OPERATIONAL IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
4. OWNER IS RESPONSIBLE FOR SET UP OF SERVICE ACCOUNT AND FOR TAPPING FEES.
5. A PERMANENT FULLY AUTOMATIC IRRIGATION SYSTEM SHALL BE PROVIDED ON A DESIGN-BUILD BASIS TO IRRIGATE 100% OF THE AREA WITHIN THE IRRIGATION LIMITS SHOWN ON PLAN.
6. IRRIGATION SHALL BE INSTALLED BY A SINGLE FIRM SPECIALIZING IN THIS WORK WITH A MINIMUM OF FIVE (5) YEARS EXPERIENCE.
7. SUBMIT A DIAGRAMMATIC PLAN TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO ORDERING MATERIALS AND EQUIPMENT. PLAN SHALL INCLUDE ANALYSIS DATA, ALL IRRIGATION SYSTEM COMPONENTS, SLEEVE LOCATIONS AND SIZES, LOCATION AND TYPE OF BOXES FOR AUTOMATIC CONTROL VALVES, ZONE CHART, DRAWN TO SCALE, ON WHICH COMPONENTS ARE SHOWN AND COORDINATED WITH EACH OTHER.
8. IRRIGATION SYSTEM SHALL INCLUDE A BACKFLOW PREVENTER, SEPARATE METER TO TRACK WATER USAGE, A CONTROLLER, RAIN SENSOR, AND ALL VALVES, WIRING, ALL NECESSARY ELECTRIC PIPING, SPRAY HEADS, BOOSTER PUMP (IF REQUIRED) AND ANY OTHER ITEM REQUIRED FOR A COMPLETE SYSTEM. CONTRACTOR SHALL VERIFY PRESSURE IS SUFFICIENT FOR COMPLETE IRRIGATION OF ALL ENTITIES AS SHOWN.
9. IRRIGATION CONTRACTOR SHALL BE FAMILIAR WITH ALL GRADES DIFFERENCES, LOCATIONS OF WALLS, STRUCTURES AND UTILITIES, AND MAKE THE NECESSARY ADJUSTMENTS TO ACCOMMODATE THE IRRIGATION SYSTEM AS DESIGNED.
10. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE NEW 120V-AC POWER SOURCE FROM THE CLOSEST AGREED UPON EXISTING ELECTRICAL LOCATION TO THE CONTROLLER LOCATION. IRRIGATION CONTRACTOR TO SUB ELECTRICAL WORK TO A CERTIFIED ELECTRICAL CONTRACTOR. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ALL WIRING THROUGH CONDUIT AND CONNECTIONS.
11. SYSTEM TO INCLUDE A REMOTE OPERATED WEATHER STATION CONTROLLER INCLUDING A RAIN SENSOR AND SHALL BE INSTALLED IN THE VICINITY OF THE CONTROLLER COORDINATE THE LOCATION WITH THE OWNER'S REPRESENTATIVE.
12. INSTALL ALL BACKFLOW PREVENTION DEVICES AND ALL PIPING BETWEEN THE POINT OF CONNECTION AND THE BACKFLOW PREVENTER AS PER LOCAL CODES. LOCATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PER LOCAL CODES.
13. A QUICK COUPLING VALVE SHALL BE LOCATED AT THE IRRIGATION WATER SUPPLY POINT OF CONNECTION TO PROVIDE FOR A POINT OF INJECTION OF COMPRESSED AIR TO PURGE THE SYSTEM OF RETAINED WATER FOR WINTERIZATION.
14. MINIMUM PIPE SIZE SHALL BE 1". ALL PIPING AND COMMUNICATION WIRING UNDER HARD SURFACES SHALL BE PLACED IN SEPARATE SLEEVES. ALL WIRE SHALL RUN WHENEVER POSSIBLE WITH THE MAIN LINE.
15. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR AND FLUSH TO FINISH GRADE AND WITH A CLEARANCE OF 2" (MIN.) FROM THE EDGE OF ANY HARDSCAPE UNLESS OTHERWISE SPECIFIED, AND SUFFICIENT DISTANCE FROM PAVED AREAS WHERE TO BE PLOWED DURING THE WINTER TO PROTECT SPRINKLER HEADS FROM BEING DISTURBED. CHECK VALVES SHALL BE INSTALLED ON ALL IRRIGATION HEADS IN AREAS WHERE FINISH GRADE EXCEEDS 4:1, WHERE POST VALVE SHUTOFF DRAINING OF THE IRRIGATION HEAD OCCURS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
16. ALL SPRINKLER HEADS SHALL BE RECOMMENDED TYPE FOR SOCCER FIELD USE AND VALVES SHALL BE FLUSHED AND ADJUSTED FOR OPTIMUM COVERAGE WITH MINIMAL OVER SPRAY ON HARDSCAPES, PAVEMENTS, AND BUILDINGS.
17. ALL IRRIGATION EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
18. BUFFER EVERGREEN PLANTINGS TO RECEIVE INITIAL IRRIGATION SPRAY WITH NOZZLE ADJUSTMENT FOR FIRST SEASON. DURING SPRING START UP ADJUST IRRIGATION SYSTEM AS NEEDED AND LIMIT TRADITIONAL SPRAY IRRIGATION TO TURF AREAS WHERE POSSIBLE.
19. IRRIGATION CONTRACTOR SHALL WARRANT THE IRRIGATION SYSTEM FOR A MINIMUM OF ONE (1) YEAR AFTER PROJECT ACCEPTANCE BY THE OWNER AND SHALL BE RESPONSIBLE FOR FIRST YEAR WINTERIZATION AND THE FOLLOWING SPRING START-UP.
20. IRRIGATION CONTRACTOR SHALL PROVIDE TWO (2) HARD COPIES OF A COMPLETE IRRIGATION SYSTEM MAINTENANCE AND OPERATION GUIDE TO THE OWNER.

STORM SYSTEM:

1. THE UNIT PRICE BID FOR INLINE DRAINS INCLUDES BUT IS NOT NECESSARILY LIMITED TO FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO PROPERLY CONSTRUCT EACH INLINE DRAIN AS SHOWN AND DETAILED ON THE DRAWINGS AND SPECIFIED HEREIN.
2. THE UNIT PRICE BIDS FOR STORM SEWER, ADS (VARIOUS SIZES, TYPES) INCLUDES BUT IS NOT NECESSARILY LIMITED TO FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO PROPERLY CONSTRUCT STORM SEWER LINES, AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
3. THE UNIT PRICE BID FOR CATCH BASIN, 4' INCLUDES BUT IS NOT NECESSARILY LIMITED TO FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO PROPERLY CONSTRUCT EACH CATCH BASIN AS SHOWN AND DETAILED ON THE DRAWINGS AND SPECIFIED HEREIN.
4. ALL TEES, BENDS, FITTINGS, CONNECTIONS, DRAINAGE STONE, FILTER FABRIC, EXCAVATION, AND BACKFILL NEEDED TO PROPERLY CONSTRUCT THE DRAINAGE IMPROVEMENTS ON THE PLANS AND DETAILS SHALL BE INCLUDED IN THE UNIT PRICE OF THE BID ITEMS.
5. STORM PIPE SHALL BE SLOPP ADS N12 WITH SOCK AND SHALL BE PAID FOR BY THE LINEAR FOOT. PIPE TO BE INSTALLED PER DETAILS ON THE DRAWINGS FOLLOWING MANUFACTURER RECOMMENDATIONS FOR MINIMUM COVERAGE AND BEDDED PER TRENCH DETAILS ON THE PLANS. PIPE TO BE COVERED WITH OPEN GRADED AGGREGATE MDOT 34R IN A MINIMUM TRENCH WIDTH AS SPECIFIED ON THE PLANS, AND TRENCH TO BE ENCASED IN SOIL SEPARATOR FILTER FABRIC AS SHOWN ON THE DETAIL.

PARKING LOT:

1. THE UNIT PRICE BID FOR GRAVEL, SIX INCH, SALVAGED AND NEW, INCLUDES BUT IS NOT NECESSARILY LIMITED TO FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO PROVIDING, HAULING, MIXING, PLACING, COMPACTING, AND GRADING MATERIAL TO ACHIEVE A FUNCTIONAL GRAVEL PARKING LOT TO THE GRADES AS SHOWN AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
2. THE LUMP SUM BID FOR 6" CONCRETE DRIVE APPROACH INCLUDES BUT IS NOT NECESSARILY LIMITED TO FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO PROPERLY CONSTRUCT A PROPER CONCRETE DRIVE APPROACH CONSISTING OF 6" CONCRETE DRIVE SET ON A 6" AGGREGATE BASE OVER A PROPERLY COMPACTED SUBGRADE 95% MINIMUM PROXY IN THE LOCATION AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. ALL ASSOCIATED TRAFFIC CONTROL PERMITS AND MEASURES SHALL BE INCLUDED IN THE LUMP SUM BID FOR 6" CONCRETE DRIVE APPROACH.
3. STONE SHALL BE MDOT 22A. PLACED OVER COMPACTED 95% MIN.

FENCE:

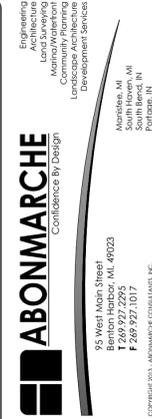
1. THE UNIT PRICE BID FOR 6' HIGH CHAIN LINK FENCE INCLUDES BUT IS NOT NECESSARILY LIMITED TO FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO PROPERLY CONSTRUCT A CHAIN LINK FENCE AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
2. CHAIN LINK FENCE TO BE CONSTRUCTED WITH 2.5' TERMINAL POSTS SS20, 2" LINE POSTS SS20, 1 5/8" SS20 TOP RAIL, AND 1 5/8" SS20 BRACE RAIL SS20, 9 GAUGES GALVANIZED CHAIN LINK FENCING SECURED WITH RAIL TIES AND TENSION WIRE SECURED WITH HOG RINGS SPACED PER MANUFACTURER RECOMMENDATIONS AT BASE OF FENCE. POST MAXIMUM SPACING TO BE 8'-0" O.C. OR AS PER MANUFACTURER RECOMMENDATIONS. ALL POSTS TO BE SET IN 12" DIA. X 36" MINIMUM DEPTH CONCRETE FOOTINGS.

TRAFFIC CONTROL NOTES:

1. THE LUMP SUM BID FOR TRAFFIC CONTROL INCLUDES BUT IS NOT NECESSARILY LIMITED TO FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO PROPERLY AND SAFELY CONTROL TRAFFIC TO MDOT STANDARDS DURING WATER MAIN TAP INSTALLATION AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
2. MDOT PERMITS FOR TRAFFIC CONTROL WILL BE OBTAINED BY THE OWNER.
3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR TRAFFIC CONTROL, COMPLIANT WITH MDOT PERMIT AND ALL APPLICABLE MDOT STANDARDS, INCLUDING BUT NOT LIMITED TO MDOT MAINTAINING TRAFFIC TYPICAL NUMBER M0440A (REV. 10/20/2011).
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING TRAFFIC CONTROL MEASURES ON LAGRANGE STREET WITH ADJACENT SCHEDULED PROJECTS ON THE EAST SIDE OF LAGRANGE STREET AT WOODHAMS FORD.

PLANTINGS:

1. THE UNIT PRICE BID FOR EVERGREEN TREE, 8' 8B INCLUDES BUT IS NOT NECESSARILY LIMITED TO FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO PROPERLY FURNISH AND INSTALL TREES AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
2. ALL EVERGREEN TREES TO BE BALLED AND BURLAPPED (8B). KEEP THE SOIL MOIST ON ALL 8B PLANTS UNTIL THEY ARE PLANTED. CONTRACTOR TO PREPARE BED AREA FOR PLANTING OF EVERGREEN TREES. PLAN SO THAT THE TOP OF ROOT BALL IS EVEN WITH THE PROPOSED FINISHED GRADE. DIG HOLE TO ACHIEVE DEPTH PER PREVIOUS SENTENCE - DO NOT OVER DIG AND BACKFILL AS SETTLING MAY OCCUR CAUSING DETRIMENTAL EFFECTS TO THE PLANT. DIG HOLE TO ACCOMMODATE A MINIMUM WIDTH OF 2 TIMES THE BALL DIAMETER. REMOVE ALL WIRE STRING AND BURLAP FROM THE TOP 1/30F THE BALL BEING CAREFUL NOT TO DISTURB THE INTEGRITY OF THE BALL. ADJUST TREE TO SET STRAIGHT WITHIN HOLE AND BACKFILL HOLE WITH 2/3 TOPSOIL AND 1/3 PEAT MOSS. CONTRACTOR TO STAKE TREES IF REQUIRED PER SOIL AND PREVAILING WIND CONDITIONS. ALL WIRES AND STAKES SHALL BE FLAGGED WITH PROPER CAUTION FLAGGING. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF STAKING ONCE IT IS DETERMINED THAT PLANT MATERIAL HAS BEEN ESTABLISHED. CONTRACTOR TO INSTALL A MINIMUM 36" DIAMETER X 3' DEPTH CIRCLE OF SHREDDED HARDWOOD MULCH AROUND THE BASE OF EACH TREE.



**SHARA
 SOCCER FIELDS
 IMPROVEMENT PROJECT
 SOUTH HAVEN, MI**

NOTES & SPECIFICATIONS

SHEET TITLE:
 DRAWN BY:
KB
 DESIGNED BY:
JWM
 PM REVIEW:
JWM
 QA/QC REVIEW:
 DATE:
FEB 2016
 SEAL:

SIGNATURE:
 DATE:
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 VERT: **NA**
 ACI JOB #
15-0503
 SHEET NO.

NO.	REVISION DESCRIPTION:	BY:	DATE:
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Item Description	Unit	Site Plan Qty
Base Bid		
Mobilization	LS	1
Inline Drains	EA	20
Storm Sewer, ADS, 8 inch, Perforated with sock	FT	1200
Storm Sewer, ADS, 12 inch	FT	340
Storm Sewer, ADS, 12 inch, Perforated with sock	FT	400
Catch Basin, 4' dia.	EA	2
Site Restoration	ACRE	7
Soil Erosion Control Measures	LS	1
6' High Chain Link Fence	LFT	512
Alternate 1 - Irrigation		
Traffic Control	LS	1
Water tap (incl sawcut, removal, restore)	LS	1
Irrigation system complete	LS	1
Alternate 2 - Parking Lot		
6' Concrete Drive Approach	LS	1
Gravel, 6' salvaged and new	SYD	3600
Alternate 3 - Landscaping		
Evergreen Tree, 8' BB	EA	38

**SHARA
 SOCCER FIELDS
 IMPROVEMENT PROJECT
 SOUTH HAVEN, MI**

PROJECT:

SITE PLAN

SHEET TITLE:

DRAWN BY: **SCR/KB**

DESIGNED BY: **JWM**

PM REVIEW: **JWM**

QA/QC REVIEW:

DATE: **FEB 2016**

SEAL:

SIGNATURE:

DATE:

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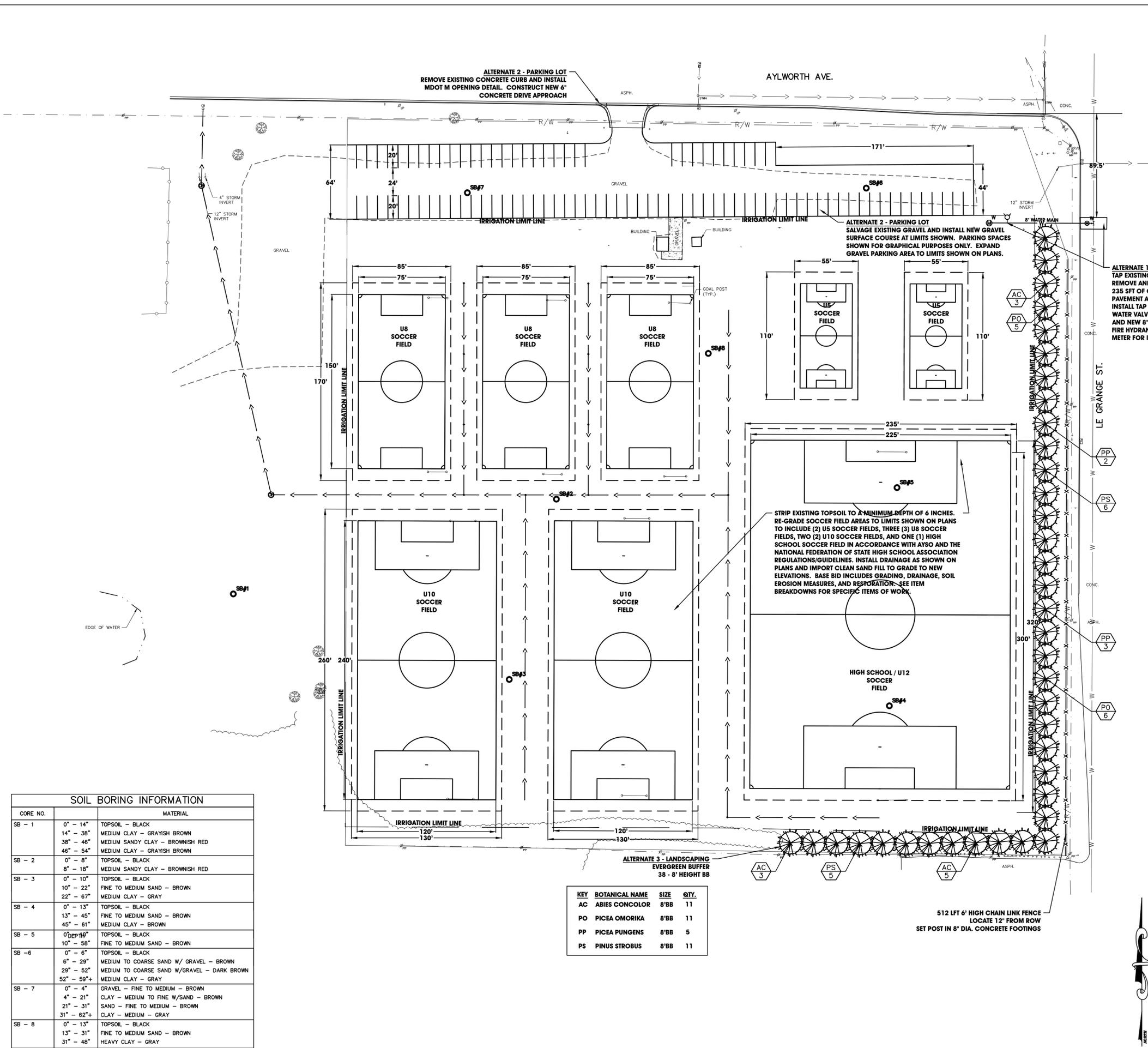
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 VERT: N/A

ACI JOB #

15-0503

SHEET NO.

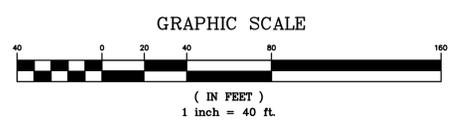
3 of 6

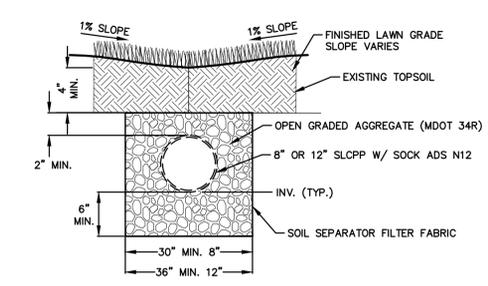
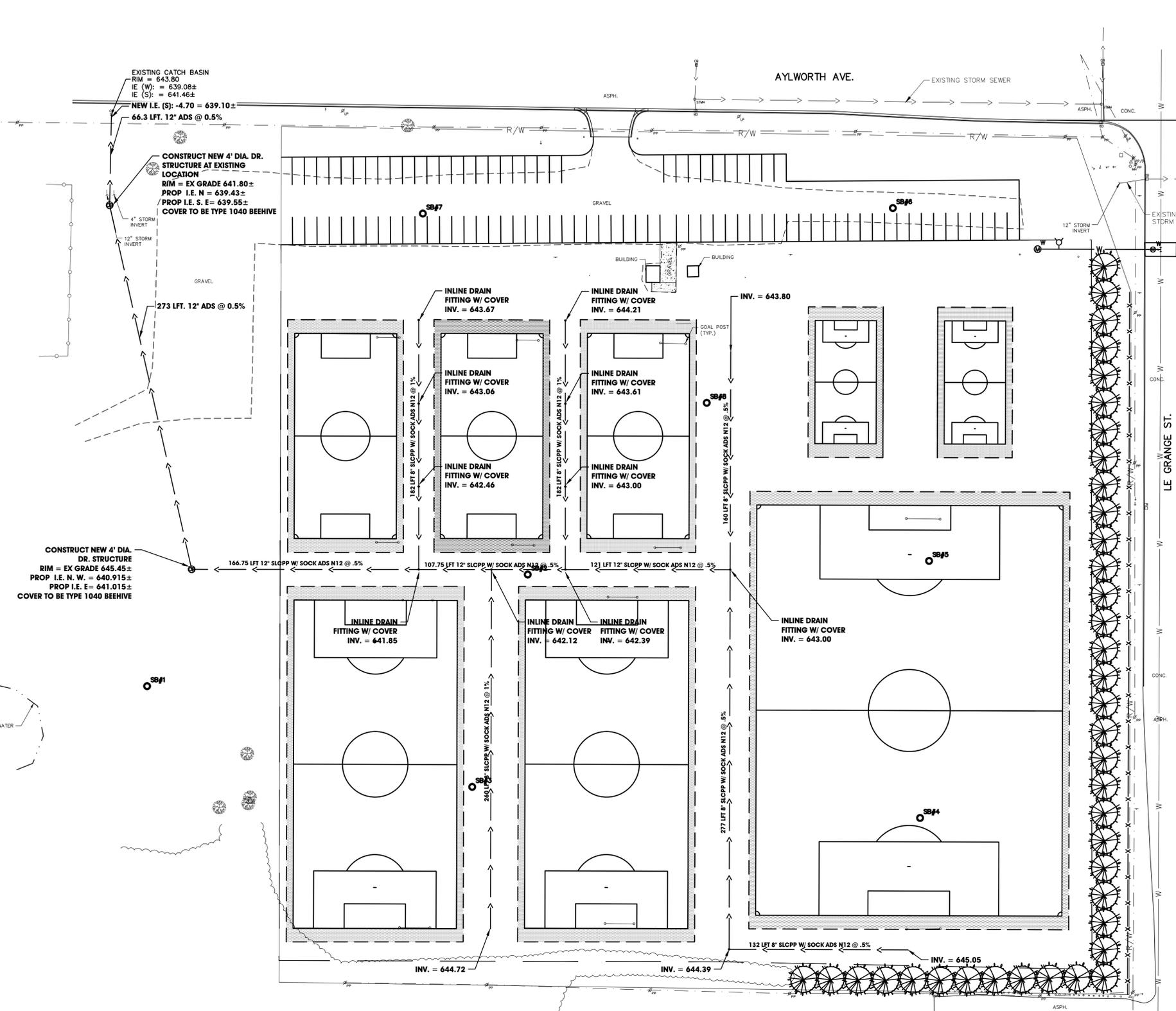


SOIL BORING INFORMATION

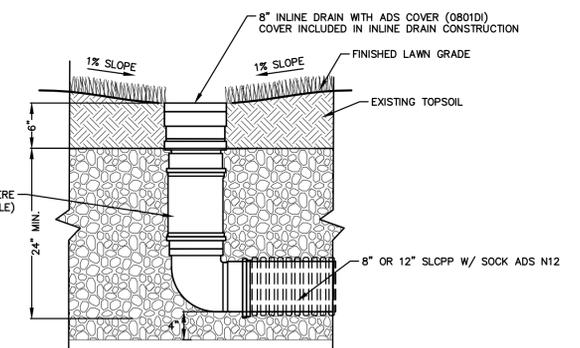
CORE NO.	DEPTH	MATERIAL
SB - 1	0" - 14"	TOPSOIL - BLACK
	14" - 38"	MEDIUM CLAY - GRAYISH BROWN
	38" - 46"	MEDIUM SANDY CLAY - BROWNISH RED
	46" - 54"	MEDIUM CLAY - GRAYISH BROWN
SB - 2	0" - 8"	TOPSOIL - BLACK
	8" - 18"	MEDIUM SANDY CLAY - BROWNISH RED
SB - 3	0" - 10"	TOPSOIL - BLACK
	10" - 22"	FINE TO MEDIUM SAND - BROWN
	22" - 67"	MEDIUM CLAY - GRAY
SB - 4	0" - 13"	TOPSOIL - BLACK
	13" - 45"	FINE TO MEDIUM SAND - BROWN
	45" - 61"	MEDIUM CLAY - BROWN
SB - 5	0" - 10"	TOPSOIL - BLACK
	10" - 58"	FINE TO MEDIUM SAND - BROWN
SB - 6	0" - 6"	TOPSOIL - BLACK
	6" - 29"	MEDIUM TO COARSE SAND W/ GRAVEL - BROWN
	29" - 52"	MEDIUM TO COARSE SAND W/ GRAVEL - DARK BROWN
	52" - 59"+	MEDIUM CLAY - GRAY
SB - 7	0" - 4"	GRAVEL - FINE TO MEDIUM - BROWN
	4" - 21"	CLAY - MEDIUM TO FINE W/ SAND - BROWN
	21" - 31"	SAND - FINE TO MEDIUM - BROWN
	31" - 62"+	CLAY - MEDIUM - GRAY
SB - 8	0" - 13"	TOPSOIL - BLACK
	13" - 31"	FINE TO MEDIUM SAND - BROWN
	31" - 48"	HEAVY CLAY - GRAY

KEY	BOTANICAL NAME	SIZE	QTY.
AC	ABIES CONCOLOR	8'BB	11
PO	PICEA OMORIKA	8'BB	11
PP	PICEA PUNGENS	8'BB	5
PS	PINUS STROBUS	8'BB	11



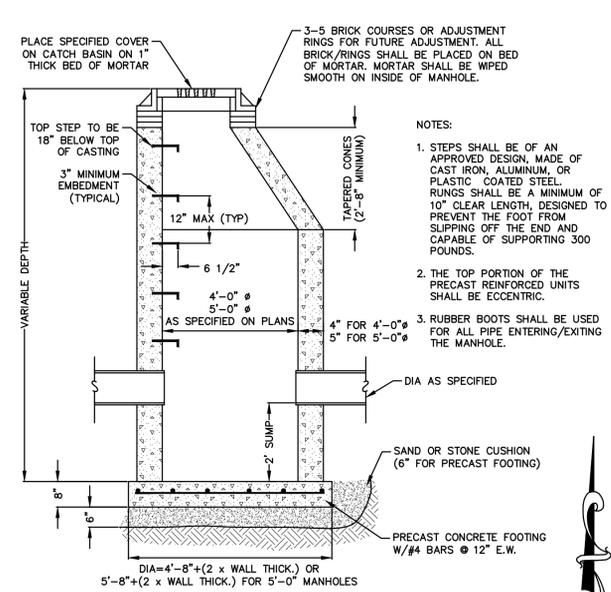


SLCOPP TRENCH DETAIL
 (TO BE USED WITH PERFORATED PIPE INSTALLATION)
 NOT TO SCALE

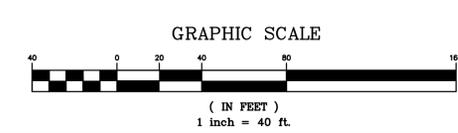


**8\"/>
 NOT TO SCALE**

- NOTES:
- ALL TEES, BENDS, FITTINGS, CONNECTIONS, DRAINAGE STONE, FILTER FABRIC, EXCAVATION AND BACKFILL NEEDED TO CONSTRUCT THE DRAINAGE IMPROVEMENTS ON THE PLANS AND DETAILS SHALL BE INCLUDED IN THE UNIT PRICE OF THE BID ITEMS.
 - AT LOCATIONS WHERE TWO (2) PIPES EXIST, INSTALL A TEE WITH RISER PIPE.



STANDARD CATCH BASIN - 4'
 NOT TO SCALE



NO.	REVISION DESCRIPTION:	BY:	DATE:
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Item Description	Unit	Site Grading Qty
Base Bid		
Fill	CYD	5040
Site Grading	LS	1

ABONMARCHÉ
 Engineering
 Architecture
 Land Surveying
 Community Planning
 Landscape Architecture
 Development Services

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**SHARA
 SOCCER FIELDS
 IMPROVEMENT PROJECT
 SOUTH HAVEN, MI**

GRADING PLAN

SHEET TITLE:
 DRAWN BY: **SCR/KB**
 DESIGNED BY: **JWM**
 PM REVIEW: **JWM**
 QA/QC REVIEW:
 DATE: **FEB 2016**
 SEAL:

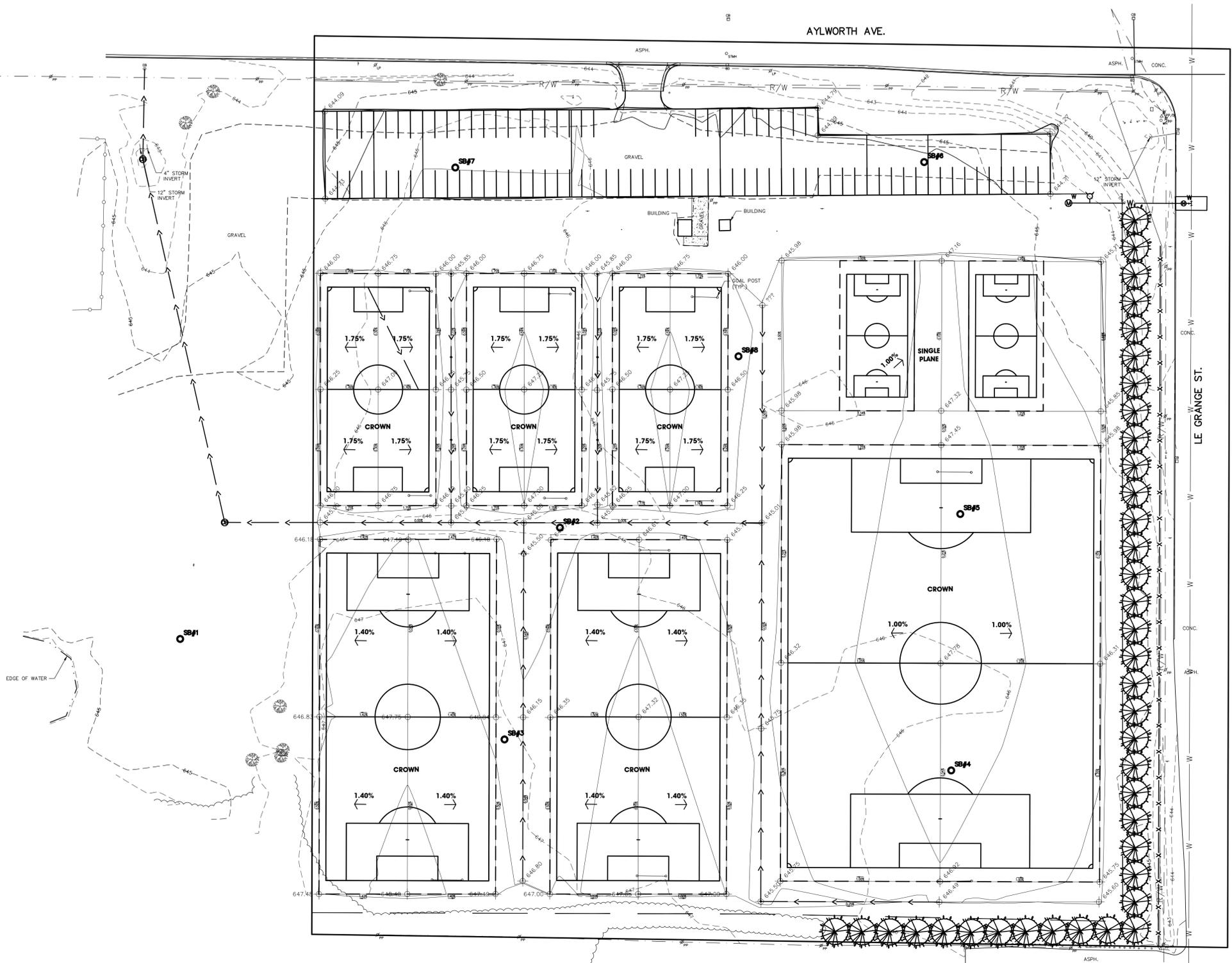
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 VERT: **N/A**

ACI JOB #
15-0503

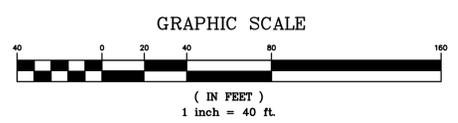
SHEET NO.
5 of 6



CUT/FILL TABLE

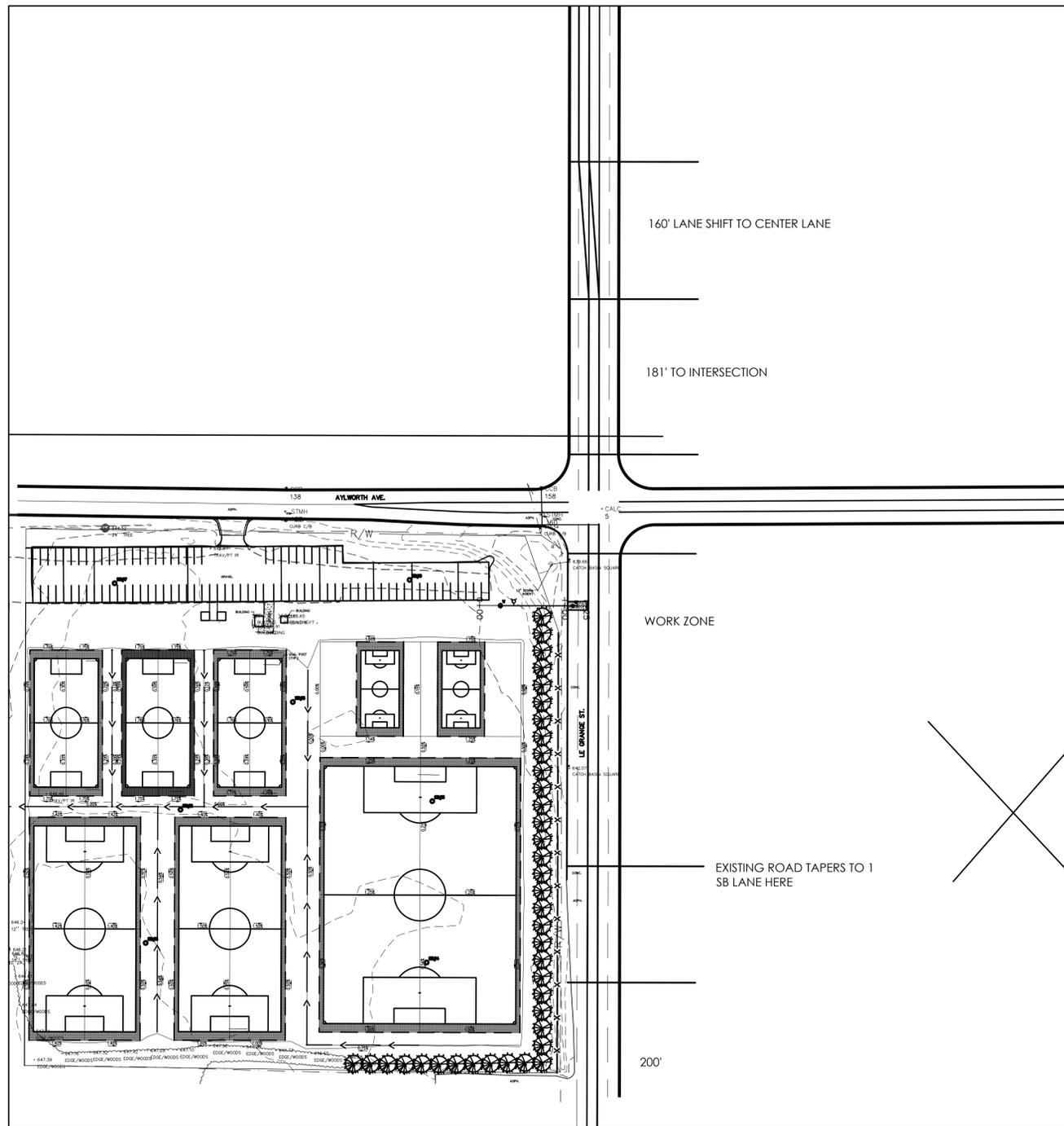
Volume	
Cut volume	684 Cu. Yd.
Fill volume	5723 Cu. Yd.
Net volume	5039 Cu. Yd. <Fill>

NOTE VOLUMES IN THIS TABLE ARE ESTIMATED AND PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IMPORTING ALL FILL NEEDED TO ACHIEVE PLAN GRADES AT ABOVE COST.

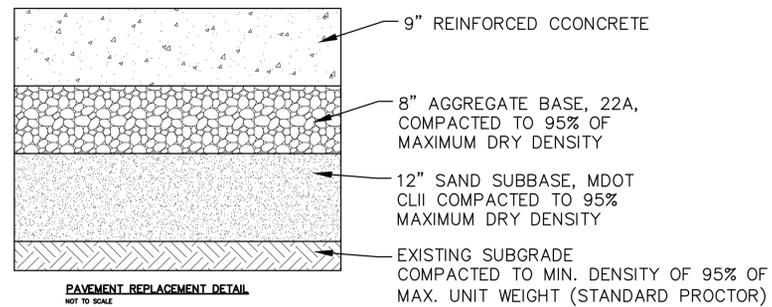


NO.	REVISION DESCRIPTION:	BY:	DATE:

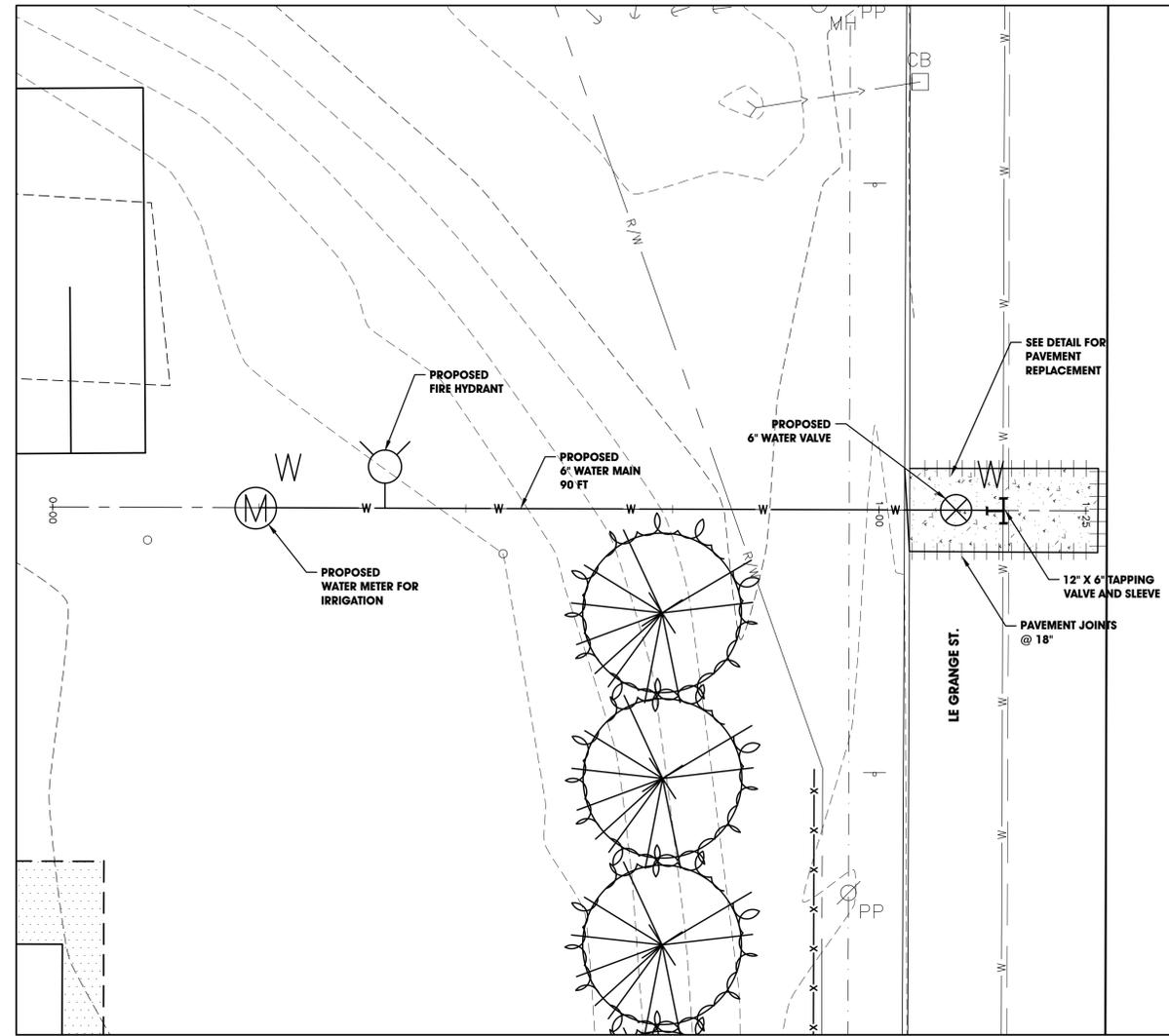
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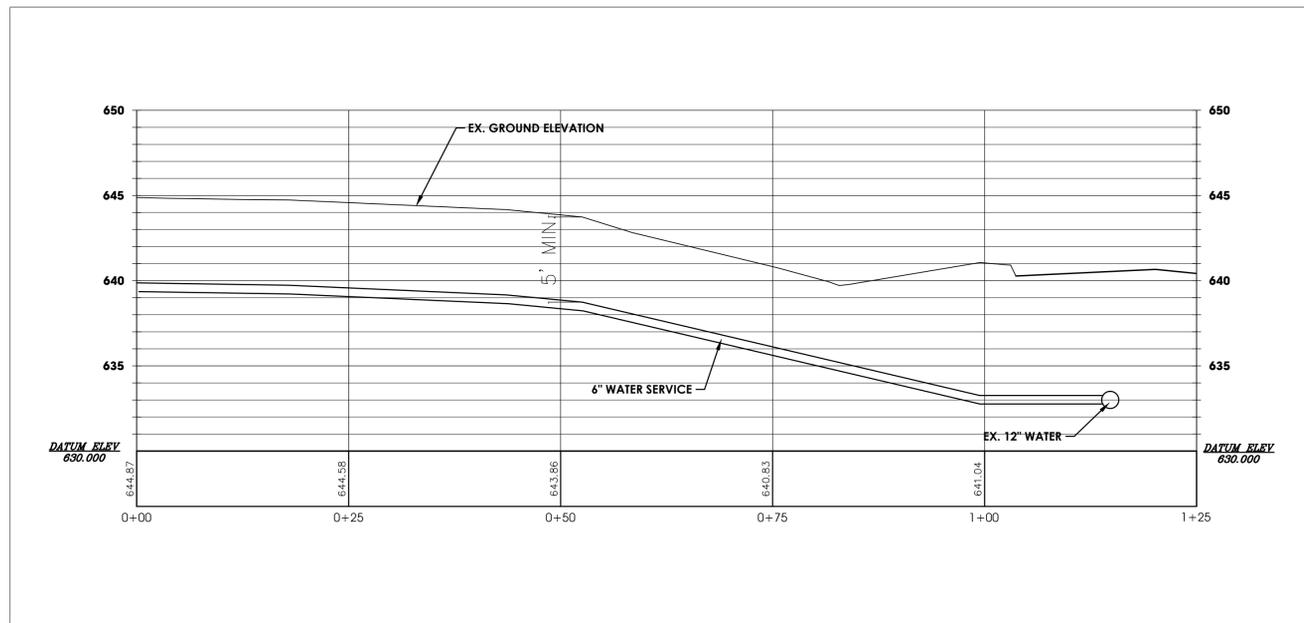
TRAFFIC MAINTENANCE PLAN
NOT TO SCALE



PAVEMENT REPLACEMENT DETAIL
NOT TO SCALE



WATER MAIN DETAIL
SCALE: 1"=10'



- NOTES:**
1. WATER SERVICE SHALL BE DUCTILE IRON, CL 52

