



**AGENDA
CITY OF HARRISONVILLE
BOARD OF ALDERMEN
WORK SESSION
CITY HALL
SEPTEMBER 8, 2015
6:00 PM**

- I. Call to Order**
 - 1. Roll Call**
- II. Discussion Items**
 - A. AIRPORT REPORT**
 - B. Request to establish a STOP sign on Short Street intersecting Sanders Street**
 - C. STOP sign request at Amy Street intersecting Matt Street**
 - D. WATER TREATMENT PLANT PROGRESS UPDATE**
 - E. 2015 Audit Discussion**

Posted on City Hall Bulletin Board this 3rd day of September 2015

Kim Hubbard, City Clerk

The Board of Aldermen meeting is an open meeting but is not a meeting of the public. There is a place on the agenda for comments of citizens under PUBLIC PARTICIPATION. Our rule is that comments by any individual or group shall not exceed (4) minutes. The Board of Aldermen request that concerns be initially addressed at the appropriate action level before coming to the Board of Alderman



TO: Board of Aldermen
FROM: Jerry Gibbs, Director
DATE: September 1, 2015
SUBJECT: AIRPORT REPORT

Type of Item: *Report*

LAWRENCE SMITH MEMORIAL AIRPORT REPORT

For the month of August, 2015

By James Green, Airport Manager

Hangar and Tie Down Space:

- All hangars are full, 11 people on the waiting list
- 8 Outside tie down spots available

Fuel:

- Potential jet fuel sales - approx. 250 gallons
- 100LL - our current price is \$4.50 per gallon
- Fuel prices in our service area:

Lee's Summit	\$4.81 per gal.
Butler	\$4.80 per gal.
Warrensburg	\$4.30 per gal.
Johnson County	\$5.50 per gal.
Ottawa	\$4.56 per gal.

AVGAS Sales: (July 30th to August 31st)

- Price \$4.50 per gallon
- Gallons Sold 1,418.35 gallons

- Revenue \$6,382.70
- Profit \$1,347.43

Pavement Maintenance Design Project:

Bids for this project were due on August 27th, three contractors submitted bids:

Pavement Maintenance LLC - \$399,756.31
 McConnell & Associates - \$296,870.44
 Vance Brothers, Inc. - \$290,446.05

Vance Brothers, Inc. is the lowest bidder. A recommendation for award is being presented to the Board of Aldermen at the September 8th meeting, as well as a grant agreement from MoDOT for the project.

Depending on the schedule of the contractor, the project start date for this project may be next year, since it is too late in the year to do a sealcoat. Other patch and crack repair work may be completed this year but that will depend on how the contractor, our consultants and MoDOT decide to handle it.

A. Discussion Item (ID # 2004)

AIRPORT REPORT

Attachments:

September Jet Fuel Sales (PDF)

POTENTIAL JET FUEL SALES

(in gallons)

	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
													<u>TOTAL</u>
2003	?	?	1,700	2,300	2,300	2,500	2,000	2,500	1,800	1,500	1,200	1,400	19,200
2004	1,800	2,500	3,500	2,500	1,500	1,500	3,000	2,800	2,000	2,000	3,200	3,400	29,700
2005	2,100	1,400	1,200	2,200	2,400	2,000	1,500	1,000	2,000	1,500	1,000	1,300	19,600
2006	1,000	1,500	1,800	1,800	1,000	1,300	1,000	1,200	1,500	1,000	1,100	800	15,000
2007	500	1,000	1,000	1,200	1,000	1,200	1,000	500	600	500	300	200	9,000
2008	200	200	200	100	100	200	300	400	200	250	150	100	2,400
2009	150	100	100	150	200	250	150	250	150	150	100	100	1,850
2010	250	350	250	150	150	100	100	150	100	0	200	250	2,050
2011	350	300	250	200	250	200	250	350	200	200	250	200	3,000
2012	150	250	150	200	400	300	200	200	300	200	350	100	2,800
2013	350	250	150	200	250	300	450	250	200	350	550	350	3,650
2014	1,800	500	200	200	300	350	300	200	150	200	250	350	4,800
2015	250	200	350	250	150	250	300	250					2,000



TO: Board of Aldermen
FROM: Rodney Jacobs, Director
DATE: August 24, 2015
SUBJECT: Request to establish a STOP sign on Short Street

Type of Item: *Approval*

M E M O R A N D U M

TO: Mayor and Board of Aldermen
FROM: Rodney Jacobs, Superintendent of Streets
DATE: August 17, 2015
SUBJECT: STOP sign request on Short Street at Sanders Street

Type of Item: *Administrative*

Issue:

Resident has requested the City establish a STOP sign on Short Street intersecting Sanders Street.

Summary Recommendation:

Staff's recommendation to the BOA is to establish a STOP sign on Short Street intersecting Sanders Street due to the increased traffic in the area.

Background:

A resident has requested a STOP sign at the intersection of Sanders and Short. Street after a near collision with another vehicle. Sanders Street is the through street with Short Street intersecting on a slight curve. The intersection has seen increased traffic the last few years.

Recommendation:

Staff recommends the establishment of a STOP sign on Short Street at Sanders Street making Sanders Street the through street.

B. Discussion Item (ID # 2001)

Request to establish a STOP sign on Short Street intersecting Sanders Street



STAFF REPORT

TO: Board of Aldermen
FROM: Rodney Jacobs, Director
DATE: August 24, 2015
SUBJECT: STOP sign request at Amy Street intersecting Matt Street

Type of Item: *Approval*

TO: Mayor and Board of Aldermen
FROM: Rodney Jacobs, Superintendent of Streets
DATE: August 17, 2015
SUBJECT: STOP sign request at Amy Street intersecting Matt Street

Type of Item: *Administrative***Issue:**

Alderman request to establish 2 WAY or 4 WAY STOP signs at Amy Street intersecting Matt Street

Summary Recommendation:

Staff's recommendation based on the Board's request is to establish only 2 WAY STOP on Amy Street at Matt Street making Matt Street the through street.

Background:

Staff has been directed to make a recommendation as to create a 2 WAY or 4 WAY STOP at Amy Street intersecting Matt Street.

In making a recommendation, staff looks to the *Manual on Uniform Traffic Control Devices* (MUTCD) which gives criteria as to the use of traffic signs. The DOT website:

<http://safety.fhwa.dot.gov/intersection/resources/fhwasa09027/resources/Intersection%20Safety%20Issue%20Brief%204.pdf> gives direction stating, "The purpose of STOP signs is to assign vehicular right of way at an intersection. If installed where warranted, STOP signs can be very effective. However, STOP signs can be an inconvenience to motorists and a potential safety issue and should only be used where warranted. STOP signs should not be used to control vehicle speeds."

The website is an excellent tool as to the criteria for the establishment STOP signs including 4 Way STOP signs.

Options:

- Establish a 2 WAY STOP signs on Amy Street at Matt Street making Matt Street the through street. Assigning vehicular right of way at an intersection

- To not establish a STOP sign at this location allowing the application of the normal right-of-way-rule.
- Establish 4 WAY STOP signs on Amy Street at Matt Street which currently does not meet the criteria established by the *Manual on Uniform Traffic Control Devices*.

Recommendation:

In following the BOA's direction Staff recommends the establishment of a 2 WAY STOP sign on Amy Street at Matt Street making Matt Street the through street.

C. Discussion Item (ID # 2002)

STOP sign request at Amy Street intersecting Matt Street



STAFF REPORT

TO: Board of Aldermen
FROM: Jerry Gibbs, Director
DATE: August 24, 2015
SUBJECT: WATER TREATMENT PLANT PROGRESS UPDATE

Type of Item: *Report*

Background - The existing Harrisonville Water Treatment Plant (WTP) was commissioned in 1977 and has a rating capacity of 1.8 MGD and a peaking capacity of 2.4 MGD through four filters over a 24 hour period. Plant processes include rapid mix, coagulation, flocculation, sedimentation, filtration, and disinfection. Raw water is conveyed from Lake Harrisonville and treating the water can often be difficult with the existing WTP processes; process challenges include moderately low alkalinity, low turbidity, and variable atrazine and manganese concentrations. Additionally, there are multiple aesthetical issues in the finished water that trigger complaints throughout the year. Customers often complain of poor water quality with a wide range of taste and odor (T&O) issues that lead residents and commuters to perceive that the water is not safe to drink.

Burns and McDonnell was selected to design the improvements necessary to improve the quality of Harrisonville's water to meet primary (public health) and secondary (aesthetics ie T&O) standards, extend life of the existing water treatment plant about 30 years (chemical, electrical and equipment improvements), and accommodate future regulatory changes. The 1st phase of improvements are already underway with the Notice to Proceed provided to David E Ross Construction to replace the filter media and underdrain (\$446,500). The scheduled move in date is September 21st. The 2nd phase is the rehabilitation of the water treatment plant (estimate \$7,000,000). Plans are at the 30% review milestone. Staff and Board of Alderman Coburn and Dickerson met with the design team from Burns and McDonnell on August 25th to review status, discuss challenges and determine the next steps and milestones.

Jeff Klein, Ryan Lang and Nathan Dunahee will be providing an update of the progress to date, challenges, changes, schedule and future milestones.

D. Discussion Item (ID # 2000)**WATER TREATMENT PLANT PROGRESS UPDATE****Attachments:**

Harrisonville Commission 090815 (PDF)

Board of Alderman Workshop WTP Improvements Harrisonville, MO

SEPTEMBER 8, 2015



Water Facility Plan

Primary Goals

1. Protect Public Health
2. Avoid Critical Failure of the WTP
3. Optimize Treatment Process to Eliminate T&O
4. Extend WTP Life 20+ years
5. Ease Expansion to 3 MGD
6. Provide Future Regulatory Compliance

Timeline

Amendment 1 – 1/24/2013

- TM1 - Process
- TM2 - Condition Assessment
- TM3 – Lake Yield
- TM-4 - Prelim Concepts
- TM-5 – Intake
- TM-6 – Emergency Connections
- TM-7 – Well Eval

Amendment 2 – 11/14/2013

- Filter Evaluation
- Capital Facility Plan

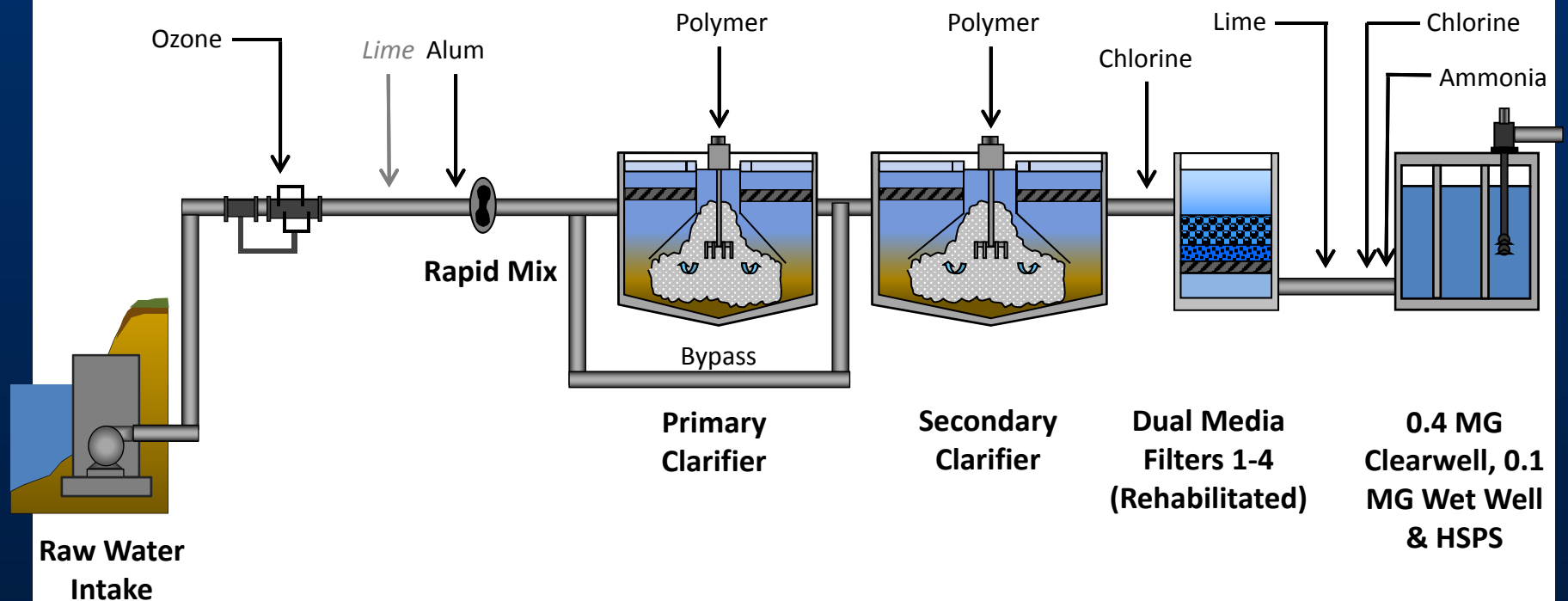
Amendment 3 – Filter NTP 8/13/2014; Process NTP 5/1/15

- Filter Project
- Process Project

Video

- Focus on the Architectural Features/Concepts:
 - Renovation/Update of Filter Building
 - New O3/E/C Building
- Goals:
 - Timeless
 - Efficient (operations and energy)
 - Functional & Aesthetic
 - Bring Value

Proposed WTP Improvements



Raw Water Intake

Note: Feed points shown in gray are not continuously fed



Figure 6-1
Proposed Process
Schematic

Filter Rehabilitation

- Reuse filter box
- Remove and replace media
- Install new underdrains
- Add air scour
- Increase backwash rate

Improvements

Results

- Protect public health
- Regulatory compliance
- Extend life 20+ years
- Re-rate to produce 3 MGD

Filter Rehabilitation

- NTP issued 8/17/2015
- Shop Drawing / Equipment Procurement
- Completion Schedule:
 - F1 = 12/25/15
 - F2 = 1/14/16
 - F3 = 2/3/16
 - F4 = 2/23/16



Major Process Components

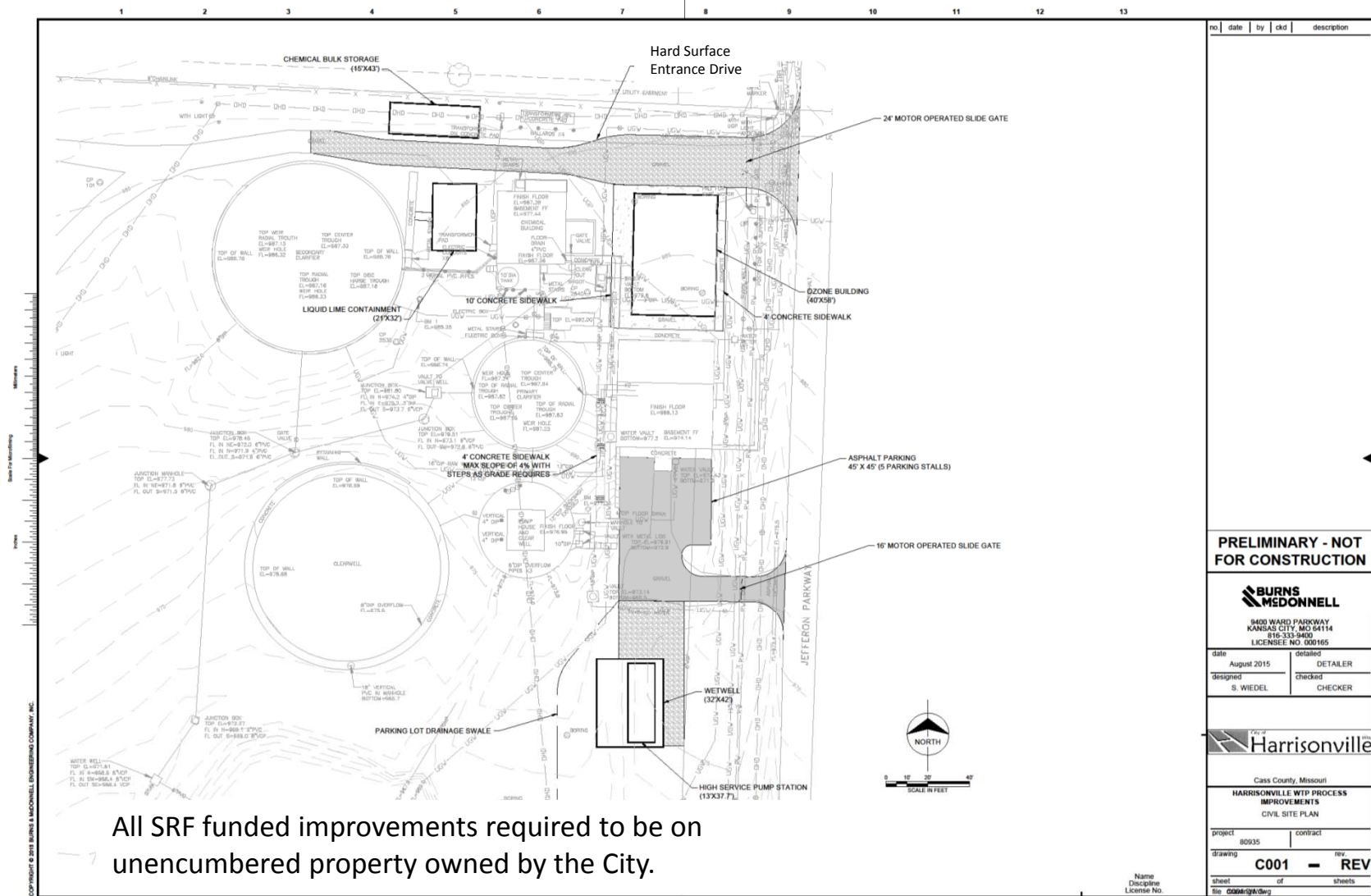
Process

- Ozone replaces Chlorine Dioxide & PAC – minimize/eliminate T&O
- Liquid Lime replaces Soda Ash for stability – save \$; improve WQ
- New rapid mix on raw waterline – provide proper mixing
- Replace Basin 1 SCB equipment – improve flocculation & settling
- Chlorine for primary disinfection – improve WQ

Other

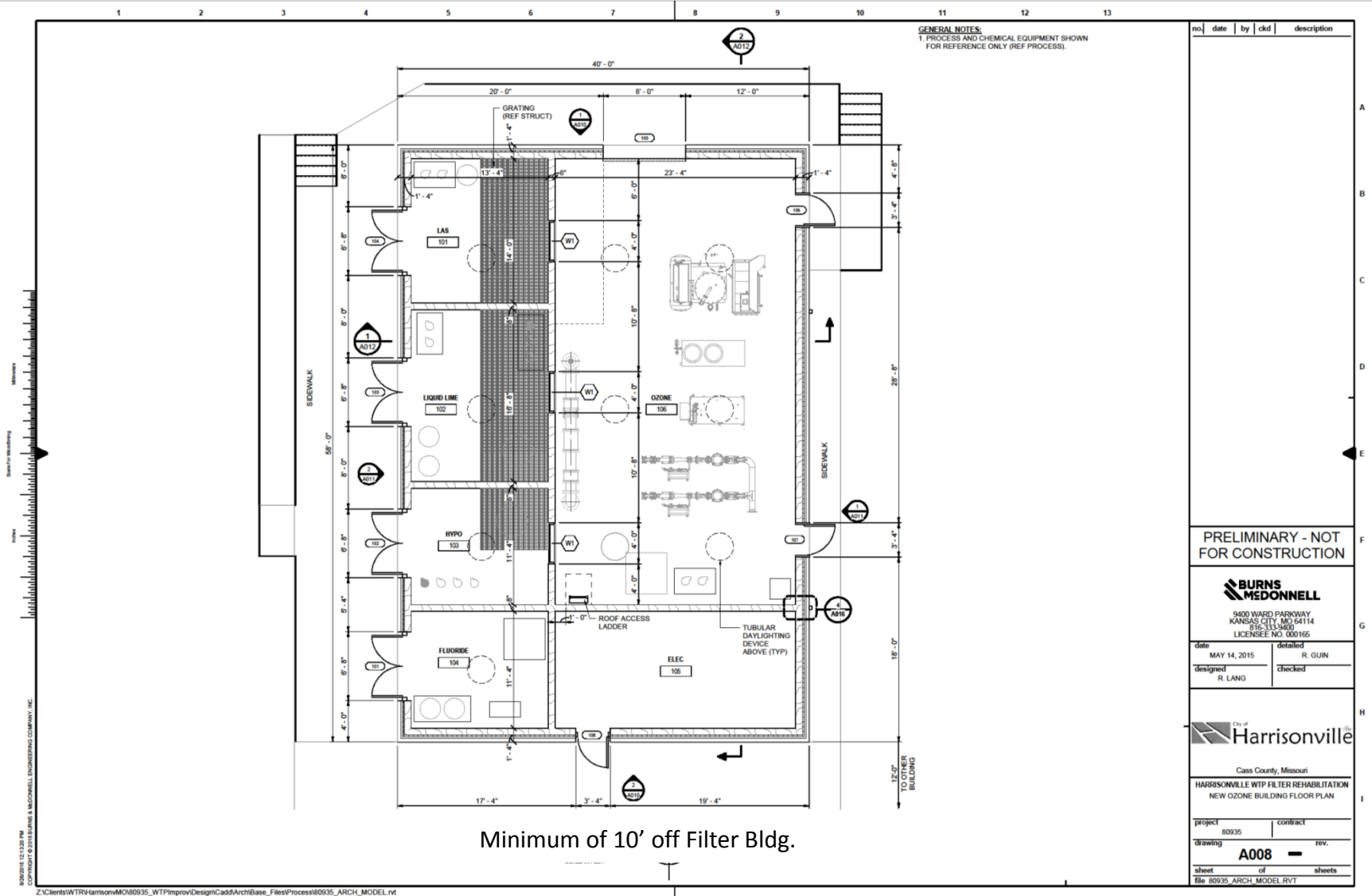
- Demolish existing rapid mix
- Basin 1 concrete repair / improvement
- New ozone, chemical storage & feed & electrical building
- New HS/BW pump station/wet well
- New transformer, ATS, etc. for new loads
- Modify yard piping/conduit
- Reuse basins and Basin 2 equipment, filter building, clearwell, lagoons

Site Plan

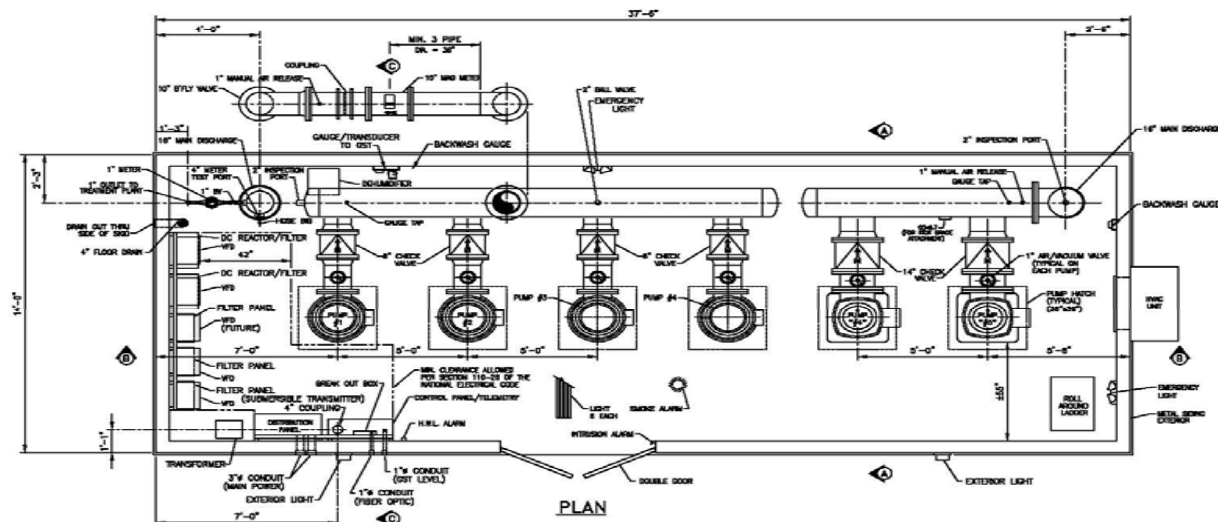
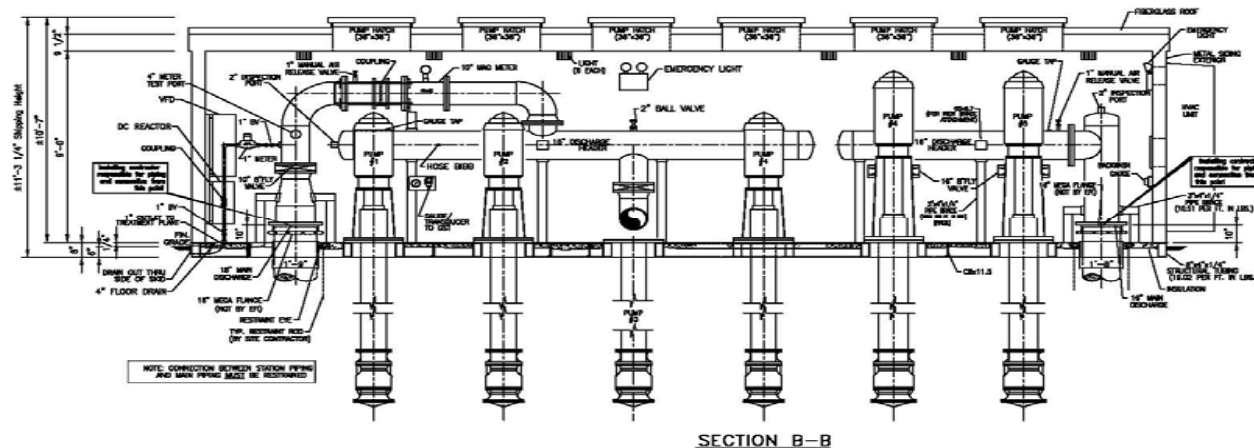


All SRF funded improvements required to be on unencumbered property owned by the City.

O3/C/E/ Building



High Service Pump Station



Process Schedule – Key Dates

Design

- MDNR/SRF 1/6/16
- Issue for Bid Set 2/12/16

Bid

- Advertise 2/12/16
- Opening 3/16/16
- Award 3/30/16
- SRF Funding 5/30/16

Construction

- NTP 5/31/16
- Substantial Completion 5/31/17

Questions





TO: Board of Aldermen
FROM: Keith Moody, City Administrator
DATE: September 1, 2015
SUBJECT: 2015 Audit Discussion

Type of Item: *Audit*

Background: Dana F. Cole and Company has served as auditor for the City from 2000 through 2014, completing the annual audit and producing the Comprehensive Annual Financial Report for the City. They have presented a scope and fee for 2015 audit services for our consideration, as they generally begin field work in January. The fee is in line with what we have paid in prior years (\$25,000) with an additional \$3,500 if they must complete “Single Audit” compliance for federal funds received.

Review: The length of time that Dana F. Cole and Company has served as City auditor is testament to the City’s satisfaction with their services. Professional services such as these are not required to be bid out. Generally a Request for Proposal process is conducted if a City entertains making a change in auditors.

Recommendation: Staff recommends retaining Dana F. Cole and Company for the 2015 audit. Retaining Dana F. Cole for 2015 ensures their availability and responsiveness to the state auditor’s staff which should reduce the amount of man hours that city staff and state auditor’s staff have to dedicate to the state audit. Dana F. Cole’s familiarity with the City’s financials and the working papers from prior audits should further minimize the State Audit staff’s time.

E. Action Item (ID # 2008)
2015 Audit Discussion