

Sportsplex Domestic Water Upgrades and Shower Renovations

Scope of Services to include the following:

Domestic Hot Water System

- Demo and remove existing storage tank and heat exchanger. Domestic hot water (DHW) and heating hot water system will be decoupled.
- Provide and install two (2) new water heaters with new expansion tank to match heater requirements.
- Connect new DHW system to existing distribution system.
- Insulate new piping.
- Tie-in new system to existing temperature controls to display real-time status.
- Provide start up and commissioning of new system.
- De-commissioning of existing temporary domestic hot water system.

Shower Renovation

General

- Demolition of existing shower piping and removal of drywall as needed to access existing piping.
- Demolition of existing temperature control system and mixing valve.
- Remove existing towel hooks, benches, mirrors and grab bars at the existing Men's room shower area and reinstall after ceramic tile installation.
- Remove existing towel hooks, benches, mirrors and grab bars, curtain rods at the existing Women's room shower area and reinstall after ceramic tile installation.

Shower Stalls

- Furnish and installed new hot and cold water piping to each shower in men's and women's shower area.
- Provide and install all necessary hardware – shower head and single valve or individual valve for water temperature control.
- Provide compartment overhead braced floor mounted Phenolic shower partitions at East side of Men's room shower area.
- Provide overhead shower rod at the existing Handicap shower in Men's shower area.

Ceramic Tile

- Remove existing ceramic tile floors in Men's and Women's shower area only.
- Float and prep floors in order to install new 2"x2" Mosaic floor tile.
- Prepare existing cinder block walls to accept new ceramic wall tile.
- Install new ceramic wall tile for the walls in shower area for both men's and women's locker room.
- Install epoxy grout on walls and standard grout on floors.

The following areas were added to the original proposal in order to meet the required code compliance and ADA guidelines.

ADA and Code Compliance Scope of Work

Shower Renovation

The existing Men's shower drains do not meet code and will require the removal of the floor to install trench drains to meet code. The base project also includes partially removing the CMU wall for the ADA shower in the Men's shower room to meet existing ADA requirements. Below is a scope of work for the added cost to address ADA issues and Code compliance in the Men's Shower Area;

Demo

- Removal of Entire Ceiling (drywall) in ADA Shower
- Saw cut and remove existing concrete slab in men's shower area.
- Saw cut and remove CMU in Men's ADA shower.

Shower Areas

- Provide and install new Polymer Trench Drain and Grate.
- Install new 2" stainless steel vent piping and connect new vent piping for the new Trench Drains in the Men's shower area.
- Provide longer overhead shower rod at the existing ADA shower in Men's shower area to accommodate larger opening.

Drywall/Carpentry:

- Provide metal framing repairs at removed ceiling area in ADA shower.
- Installation of new Denssheild backer board for ADA shower ceiling.
- Install STO coatings at ADA shower room only.

Painting

- Prepare and paint new drywall ceilings with Epoxy paint in ADA shower area.
- Prepare and paint block walls in areas as noted on design drawings with Epoxy paint.

Ceramic Tile

- Float and prep floors up to 3/8" in order to install new 2"x2" Mosaic floor tile.
- Prepare remaining CMU wall in ADA shower to accept new ceramic wall tile.
- Install waterproofing, Epoxy grout, Sealer and Caulk at CMU wall in ADA shower

Misc.

- Debris removal (Spoils from cutting, CMU, Concrete Floor, Drywall...Etc.)
- Additional labor to cut and replace Men's Shower Area Floor.
- Re - Mobilization once floor cures (approximately 28 days)

In addition, the following alternates were accepted by the Village and have been included in our scope of work:

Alternate Add FIM -1.1 Family Restroom Shower Upgrades

CTS will provide a renovated Family Restroom Shower Area and new distribution piping to allow for temperature control at each shower. Renovation will include new tile flooring, the addition of wall tile for the back wall where the new shower fixture will be installed. The scope of work will be similar to the Women's shower upgrades.

Alternate Add FIM - 1.2 Lighting Upgrades

CTS will provide new fixture in the all shower areas in place of reusing the existing fixtures. Fixtures will be rated for use in shower areas.

Alternate Add FIM - 1.3 Replace Hot and Cold Water Mixing Valves

CTS will provide new Hot and Cold Water Temperature Mixing Valves (TMV) in the Men's and Women's shower areas in place of reusing the existing valves. New TMVs will be mounted in existing cabinets. New TMVs will be Symmons 7-400A, lead free valve with piping assembly, temperature gauge and outlet ball valve.

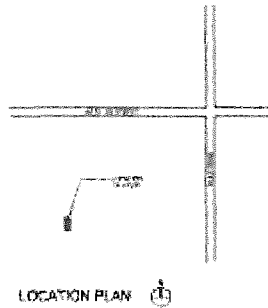
Please refer to attached drawing set for demo, installation and equipment specifications.

ORLAND PARK SPORTSPLEX WATER IMPROVEMENTS

VILLAGE OF ORLAND PARK
11351 W 159 STREET
ORLAND PARK, IL 60167

ISSUED FOR BID

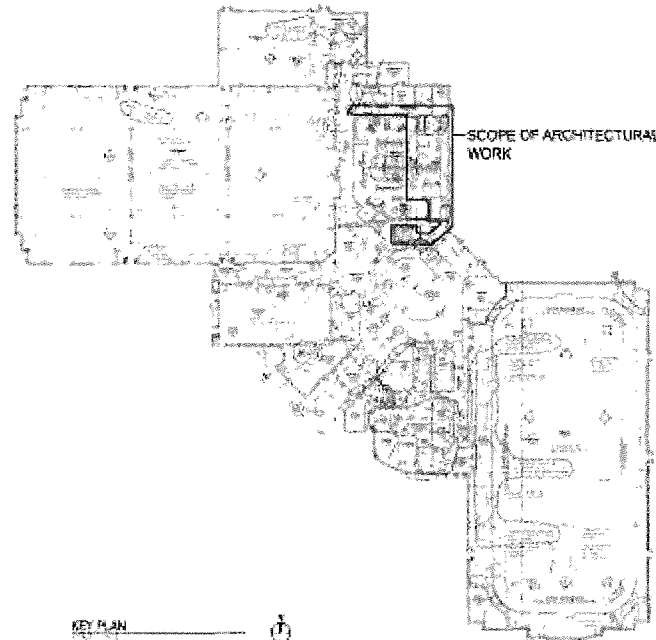
JANUARY 31, 2017



LOCATION PLAN

CODES

- 2015 IBC BUILDING CODE WITH ALL AMENDMENTS, ILLINOIS CODE TITLE 8, CHAPTER 1
- 2012 INTERNATIONAL MECHANICAL CODE WITH AMENDMENTS, ILLINOIS CODE TITLE 8, CHAPTER 4
- 2014 NATIONAL ELECTRICAL CODE WITH AMENDMENTS, ILLINOIS CODE TITLE 8, CHAPTER 3
- 2014 CODE OF ENERGY PLUMBING CODE WITH AMENDMENTS, ILLINOIS CODE TITLE 8, CHAPTER 4
- 2012 INTERNATIONAL FIRE CODE WITH AMENDMENTS, ILLINOIS CODE TITLE 8, CHAPTER 1 & 2
- 2012 INTERNATIONAL PROPERTY MAINTENANCE CODE WITH AMENDMENTS, ILLINOIS CODE TITLE 8, CHAPTER 7
- 2015 ILLINOIS ENERGY CONSERVATION CODE (IECC)
- 2011 ILLINOIS ACCESSIBILITY CODE
- 2015 IBC WITH 15, 2007 IBC WITH 17A, 2013 IBC WITH 16
- 2015 AIA STANDARDS FOR ACCESSIBLE DESIGN



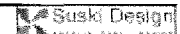
KEY PLAN

SCOPE OF WORK

WATER IMPROVEMENTS TO EXISTING SPORTSPLEX FACILITY
ISSUED FOR BID 01/31/2017

SHEET INDEX

- A-0 COVER SHEET
- A-1 GENERAL NOTES, SPECIFICATIONS AND DETAILS
- A-2 GENERAL NOTES, SPECIFICATIONS AND DETAILS
- A-3 CONCEPTUAL PLAN AND EXISTING UTILITY MAP
- A-4 THESE PLANS ARE REVISIONS
- A-5 SEE OTHER SHEETS



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CHICAGO, IL 60630
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SPORTSPLEX WATER IMPROVEMENTS

VILLAGE OF ORLAND PARK
11351 W 159 STREET
ORLAND PARK, IL 60167

PROJECT CONTACTS

PROJECT: ORLAND PARK
OWNER: VILLAGE OF ORLAND PARK
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TEL: 708.430.3000

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CONTACT: J. BROWN
TEL: 708.430.3000

DATE: 01/31/2017
SCALE: AS SHOWN
NO. OF SHEETS: 5 OF 5

THIS DOCUMENT IS UNLESS NOTED TO THE CONTRARY OR OTHERWISE BY THESE NOTES. ANY REVISIONS SHALL BE SHOWN ON THE REVISION SHEET.

01/31/2017 09:00 AM

COVER SHEET

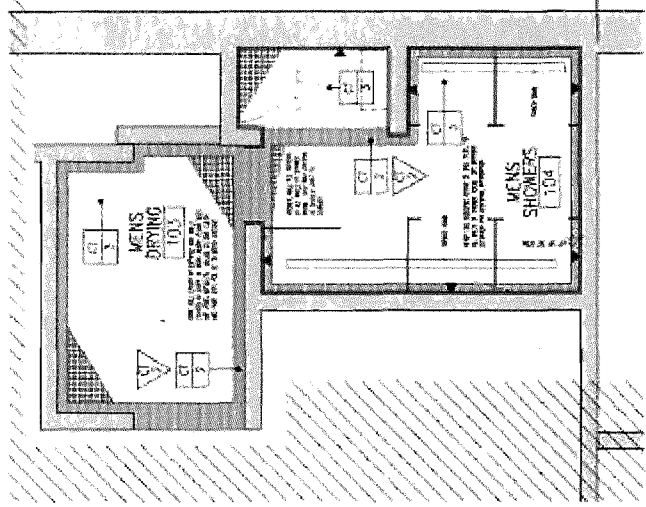
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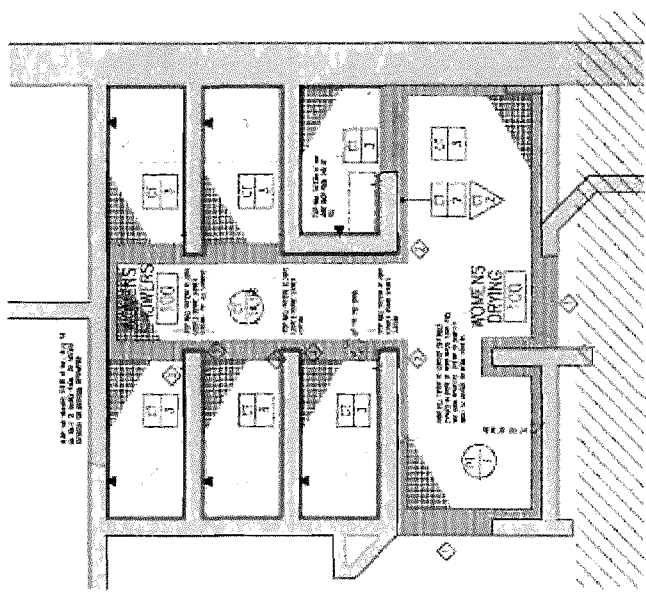
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FILE INSTALLATION NOTES:

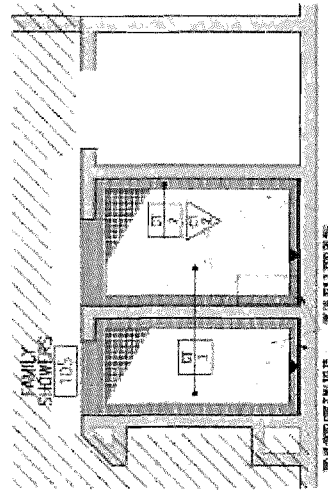
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1 FINISH PLAN - MENS ROOM



2 FINISH PLAN - WOMEN'S ROOM



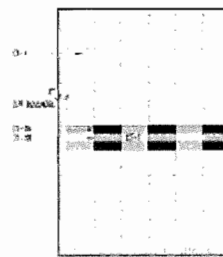
3 FINISH PLAN - FAMILY SHOWERS

SECTION INDEX

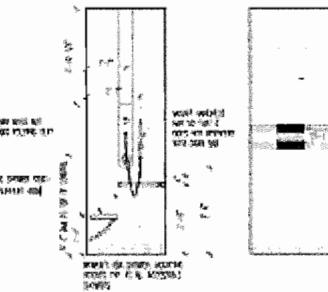
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WALL ADDRESS SCHEME

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1.16	PLUMBING	1.16	10/10/10
1.17	PAINT	1.17	10/10/10
1.18	GLASS	1.18	10/10/10
1.19	IRONING	1.19	10/10/10
1.20	STAIRS	1.20	10/10/10
1.21	ELEVATORS	1.21	10/10/10
1.22	MECHANICAL	1.22	10/10/10
1.23	ELECTRICAL	1.23	10/10/10
1.24	PLUMBING	1.24	10/10/10
1.25	PAINT	1.25	10/10/10
1.26	GLASS	1.26	10/10/10
1.27	IRONING	1.27	10/10/10
1.28	STAIRS	1.28	10/10/10
1.29	ELEVATORS	1.29	10/10/10
1.30	MECHANICAL	1.30	10/10/10
1.31	ELECTRICAL	1.31	10/10/10
1.32	PLUMBING	1.32	10/10/10
1.33	PAINT	1.33	10/10/10
1.34	GLASS	1.34	10/10/10
1.35	IRONING	1.35	10/10/10
1.36	STAIRS	1.36	10/10/10
1.37	ELEVATORS	1.37	10/10/10
1.38	MECHANICAL	1.38	10/10/10
1.39	ELECTRICAL	1.39	10/10/10
1.40	PLUMBING	1.40	10/10/10
1.41	PAINT	1.41	10/10/10
1.42	GLASS	1.42	10/10/10
1.43	IRONING	1.43	10/10/10
1.44	STAIRS	1.44	10/10/10
1.45	ELEVATORS	1.45	10/10/10
1.46	MECHANICAL	1.46	10/10/10
1.47	ELECTRICAL	1.47	10/10/10
1.48	PLUMBING	1.48	10/10/10
1.49	PAINT	1.49	10/10/10
1.50	GLASS	1.50	10/10/10
1.51	IRONING	1.51	10/10/10
1.52	STAIRS		



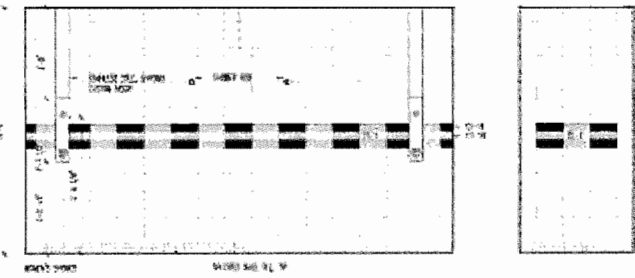
9 SHOWER TILE ELEVATION



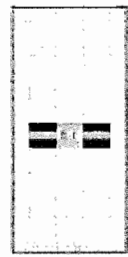
8 ADA SHOWER INT ELEVATION



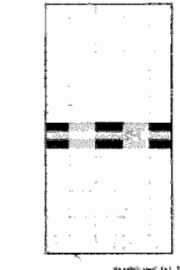
7 SHOWER TILE ELEVATION



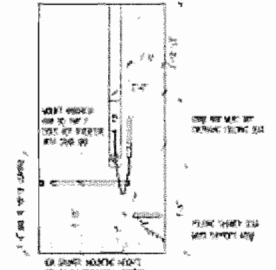
6 WOMEN'S SHOWER NORTH WALL INTERIOR ELEVATION



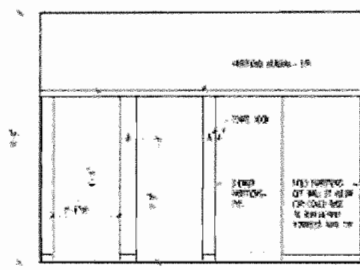
5 HALL INTERIOR ELEVATION



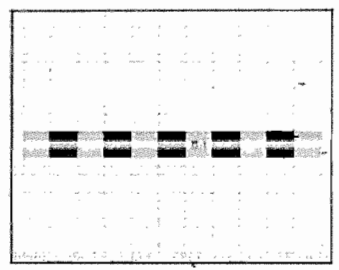
12 FAMILY TILE INT ELEVATION



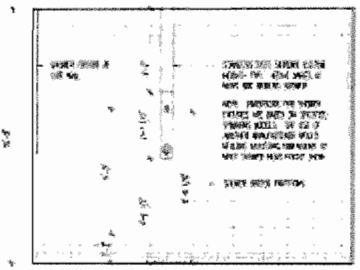
11 FAMILY ADA SHOWER INT ELEVATION



4 MENS SHOWER WEST WALL SHOWER PANELS



3 MENS SHOWER WEST WALL TILE PATTERN

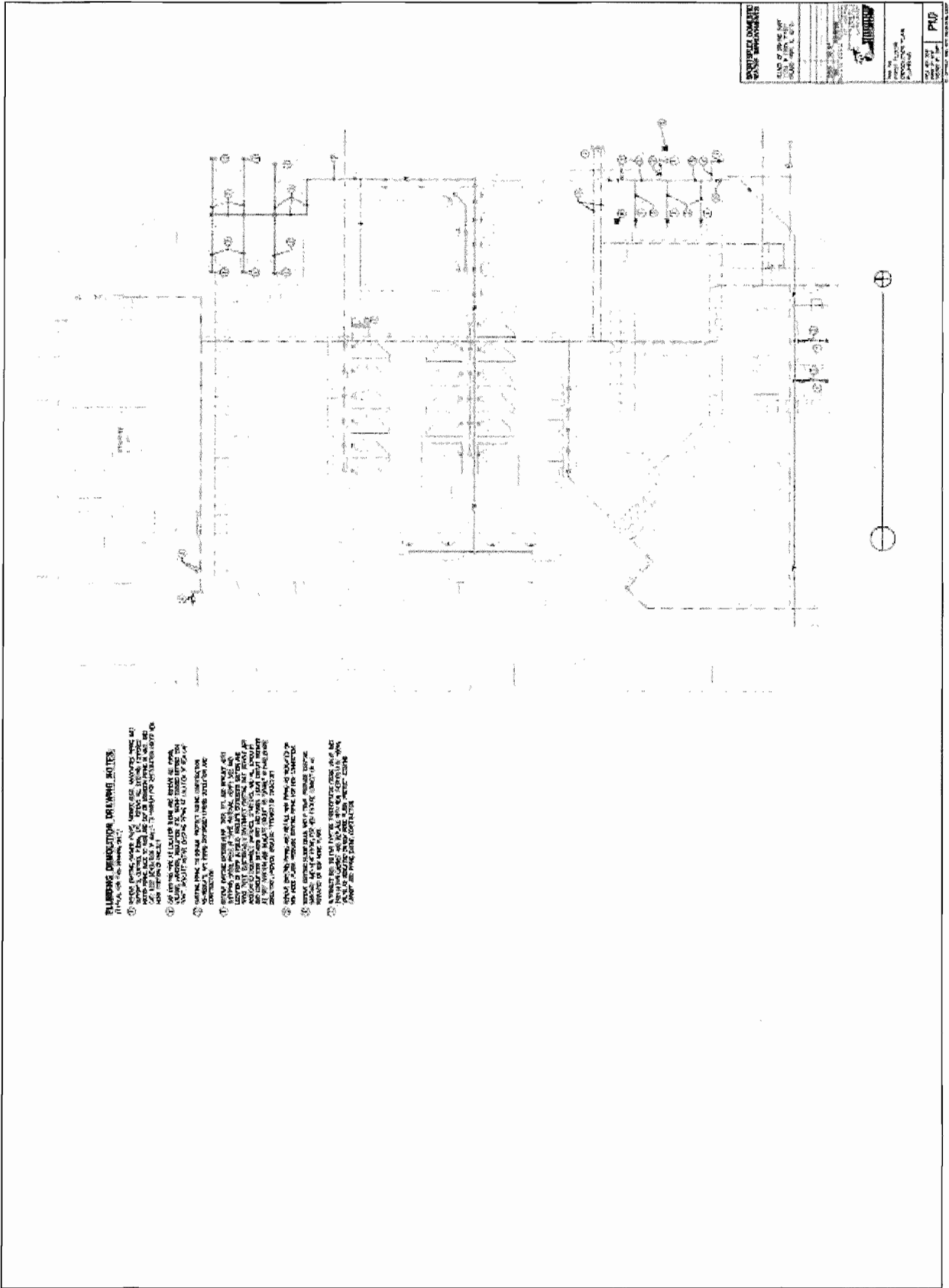


2 MENS SHOWER WEST WALL INTERIOR ELEVATION

1. 2024.01.01 09:15:00

INTERIOR ELEVATIONS	
ALZC: 004.0	01.0000
DATE: 01	11
PROJECT:	1. 2024.01.01
SCALE:	

A4.0



REVISIONS, DIMENSIONS, DRAWING NOTES

1. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
2. ALL ROOMS SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.
3. ALL WALLS SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.
4. ALL FLOORS SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.
5. ALL CEILING SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.
6. ALL DOORS SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.
7. ALL WINDOWS SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.
8. ALL STAIRS SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.
9. ALL ELEVATORS SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.
10. ALL MECHANICAL ROOMS SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.
11. ALL ELECTRICAL ROOMS SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.
12. ALL TELEPHONE ROOMS SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.
13. ALL JANUARY ROOMS SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.
14. ALL RESTROOMS SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.
15. ALL STORAGE ROOMS SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.
16. ALL OFFICES SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.
17. ALL CONFERENCE ROOMS SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.
18. ALL BOARD ROOMS SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.
19. ALL LECTURE HALLS SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.
20. ALL THEATERS SHALL BE FINISHED WITH 1/2" GYP BOARD ON 2" X 4" JOISTS.

INSURANCE COMPANY
PLANS OF THE CITY
PLANS OF THE STATE
PLANS OF THE COUNTY
PLANS OF THE DISTRICT
PLANS OF THE TERRITORY
PLANS OF THE FEDERAL GOVERNMENT
PLANS OF THE UNITED STATES
PLANS OF THE WORLD
PLANS OF THE UNIVERSE
PLANS OF THE GODS
PLANS OF THE DEVILS
PLANS OF THE ANGELS
PLANS OF THE SAINTS
PLANS OF THE SINNERS
PLANS OF THE WISE
PLANS OF THE FOOLISH
PLANS OF THE RICH
PLANS OF THE POOR
PLANS OF THE HONORABLE
PLANS OF THE DISHONORABLE
PLANS OF THE JUST
PLANS OF THE UNJUST
PLANS OF THE GOOD
PLANS OF THE EVIL
PLANS OF THE PURE
PLANS OF THE IMPURE
PLANS OF THE CLEAN
PLANS OF THE DIRTY
PLANS OF THE SWEET
PLANS OF THE BITTER
PLANS OF THE SALT
PLANS OF THE SUGAR
PLANS OF THE HONEY
PLANS OF THE WINE
PLANS OF THE OIL
PLANS OF THE BUTTER
PLANS OF THE CHEESE
PLANS OF THE BREAD
PLANS OF THE MEAT
PLANS OF THE FISH
PLANS OF THE VEGETABLES
PLANS OF THE FRUITS
PLANS OF THE HERBS
PLANS OF THE SPICES
PLANS OF THE DRUGS
PLANS OF THE MEDICINES
PLANS OF THE POISONS
PLANS OF THE ANTIDOTES
PLANS OF THE CURES
PLANS OF THE HEALINGS
PLANS OF THE MIRACLES
PLANS OF THE SIGNS
PLANS OF THE WONDERS
PLANS OF THE MYSTERIES
PLANS OF THE SECRETS
PLANS OF THE REVELATIONS
PLANS OF THE PROPHECIES
PLANS OF THE VISIONS
PLANS OF THE DREAMS
PLANS OF THE THOUGHTS
PLANS OF THE FEELINGS
PLANS OF THE ACTIONS
PLANS OF THE REACTIONS
PLANS OF THE CONSEQUENCES
PLANS OF THE RESULTS
PLANS OF THE ENDINGS
PLANS OF THE BEGINNINGS
PLANS OF THE MIDDLE
PLANS OF THE END
PLANS OF THE BEGINNING
PLANS OF THE MIDDLE
PLANS OF THE END

DOMESTIC WATER METER SCHEDULE															
CIRCUIT NO.	CIRCUIT	METER	SIZE	MATERIAL	TYPE	METER				VALVE				KEY	
						TYPE	SIZE	TYPE	SIZE	TYPE	SIZE	TYPE	SIZE		
101	WATER SUPPLY	1/2" METER	1/2"	BRASS	WATER	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS
102	WATER SUPPLY	1/2" METER	1/2"	BRASS	WATER	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS

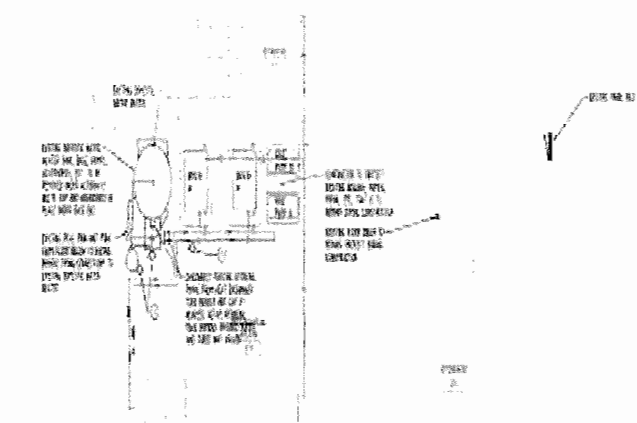
KEY: 101 - WATER SUPPLY METER SCHEDULE
102 - WATER SUPPLY METER SCHEDULE

PLUMBING PUMP SCHEDULE															
CIRCUIT NO.	CIRCUIT	PUMP	TYPE	MATERIAL	SIZE	PUMP				VALVE				KEY	
						TYPE	SIZE	TYPE	SIZE	TYPE	SIZE	TYPE	SIZE		
101	WATER SUPPLY	1/2" PUMP	1/2"	BRASS	WATER	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS
102	WATER SUPPLY	1/2" PUMP	1/2"	BRASS	WATER	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS

KEY: 101 - WATER SUPPLY PUMP SCHEDULE
102 - WATER SUPPLY PUMP SCHEDULE

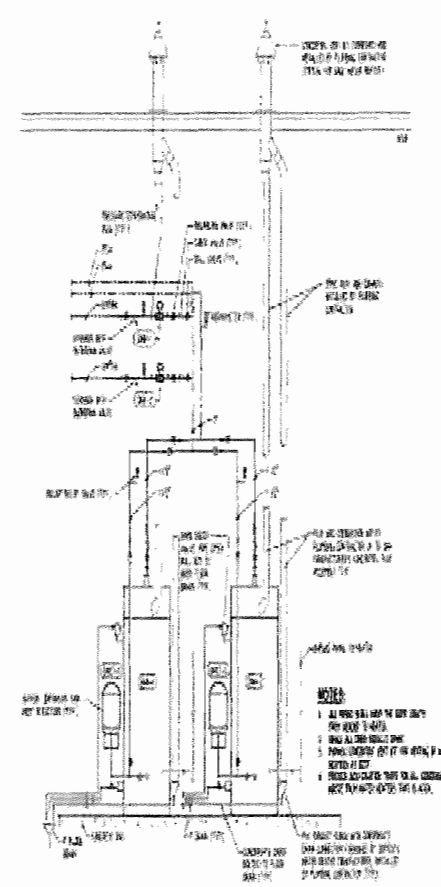
DOMESTIC WATER EXPANSION TANK SCHEDULE															
CIRCUIT NO.	CIRCUIT	TANK	TYPE	MATERIAL	SIZE	TANK				VALVE				KEY	
						TYPE	SIZE	TYPE	SIZE	TYPE	SIZE	TYPE	SIZE		
101	WATER SUPPLY	1/2" TANK	1/2"	BRASS	WATER	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS
102	WATER SUPPLY	1/2" TANK	1/2"	BRASS	WATER	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS

KEY: 101 - WATER SUPPLY EXPANSION TANK SCHEDULE
102 - WATER SUPPLY EXPANSION TANK SCHEDULE

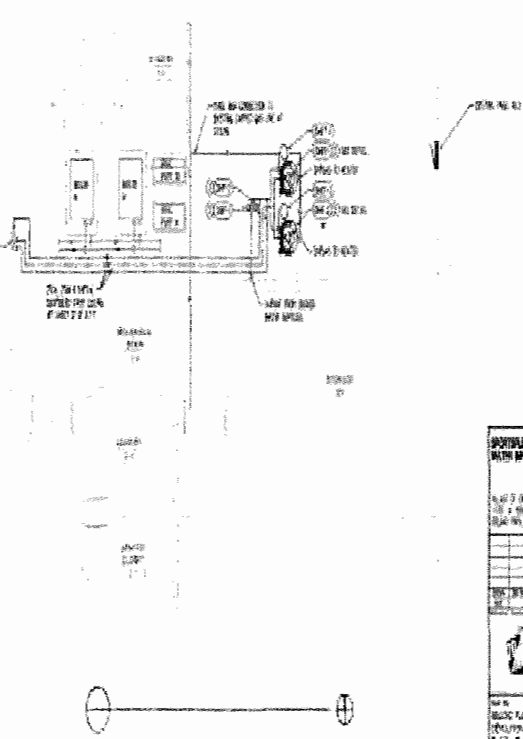


PLUMBING ELEVATION DRAWING NOTES:
(SEE ALSO THE METER SCHEDULE)

- 1. ALL PIPING SHALL BE 1/2" BRASS UNLESS OTHERWISE NOTED.
- 2. ALL VALVES SHALL BE 1/2" BRASS UNLESS OTHERWISE NOTED.
- 3. ALL METERS SHALL BE 1/2" BRASS UNLESS OTHERWISE NOTED.
- 4. ALL EXPANSION TANKS SHALL BE 1/2" BRASS UNLESS OTHERWISE NOTED.



DOMESTIC WATER METER PUMP DIAGRAM



DOMESTIC WATER METER SCHEDULE

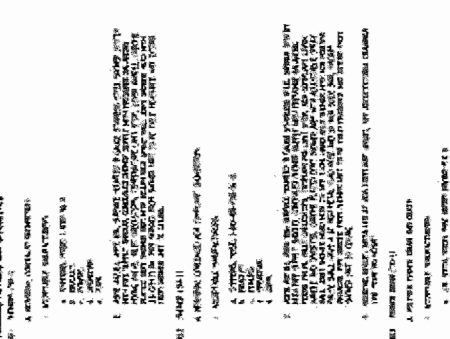
CIRCUIT NO.	CIRCUIT	METER	SIZE	MATERIAL	TYPE	TYPE	SIZE	TYPE	SIZE	TYPE	SIZE	TYPE	SIZE	KEY	
101	WATER SUPPLY	1/2" METER	1/2"	BRASS	WATER	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS
102	WATER SUPPLY	1/2" METER	1/2"	BRASS	WATER	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS	1/2"	BRASS

KEY: 101 - WATER SUPPLY METER SCHEDULE
102 - WATER SUPPLY METER SCHEDULE

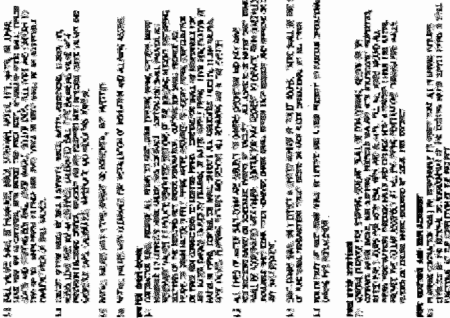
PLUMBING SYMBOLS AND ABBREVIATIONS

1	PIPE	PIPE
2	CONDENSATE	CONDENSATE
3	VENT	VENT
4	TRAP	TRAP
5	WATER	WATER
6	SEWER	SEWER
7	FLUE	FLUE
8	EXHAUST	EXHAUST
9	VENT	VENT
10	CONDENSATE	CONDENSATE
11	TRAP	TRAP
12	WATER	WATER
13	SEWER	SEWER
14	FLUE	FLUE
15	EXHAUST	EXHAUST
16	VENT	VENT
17	CONDENSATE	CONDENSATE
18	TRAP	TRAP
19	WATER	WATER
20	SEWER	SEWER
21	FLUE	FLUE
22	EXHAUST	EXHAUST
23	VENT	VENT
24	CONDENSATE	CONDENSATE
25	TRAP	TRAP
26	WATER	WATER
27	SEWER	SEWER
28	FLUE	FLUE
29	EXHAUST	EXHAUST
30	VENT	VENT
31	CONDENSATE	CONDENSATE
32	TRAP	TRAP
33	WATER	WATER
34	SEWER	SEWER
35	FLUE	FLUE
36	EXHAUST	EXHAUST
37	VENT	VENT
38	CONDENSATE	CONDENSATE
39	TRAP	TRAP
40	WATER	WATER
41	SEWER	SEWER
42	FLUE	FLUE
43	EXHAUST	EXHAUST
44	VENT	VENT
45	CONDENSATE	CONDENSATE
46	TRAP	TRAP
47	WATER	WATER
48	SEWER	SEWER
49	FLUE	FLUE
50	EXHAUST	EXHAUST
51	VENT	VENT
52	CONDENSATE	CONDENSATE
53	TRAP	TRAP
54	WATER	WATER
55	SEWER	SEWER
56	FLUE	FLUE
57	EXHAUST	EXHAUST
58	VENT	VENT
59	CONDENSATE	CONDENSATE
60	TRAP	TRAP
61	WATER	WATER
62	SEWER	SEWER
63	FLUE	FLUE
64	EXHAUST	EXHAUST
65	VENT	VENT
66	CONDENSATE	CONDENSATE
67	TRAP	TRAP
68	WATER	WATER
69	SEWER	SEWER
70	FLUE	FLUE
71	EXHAUST	EXHAUST
72	VENT	VENT
73	CONDENSATE	CONDENSATE
74	TRAP	TRAP
75	WATER	WATER
76	SEWER	SEWER
77	FLUE	FLUE
78	EXHAUST	EXHAUST
79	VENT	VENT
80	CONDENSATE	CONDENSATE
81	TRAP	TRAP
82	WATER	WATER
83	SEWER	SEWER
84	FLUE	FLUE
85	EXHAUST	EXHAUST
86	VENT	VENT
87	CONDENSATE	CONDENSATE
88	TRAP	TRAP
89	WATER	WATER
90	SEWER	SEWER
91	FLUE	FLUE
92	EXHAUST	EXHAUST
93	VENT	VENT
94	CONDENSATE	CONDENSATE
95	TRAP	TRAP
96	WATER	WATER
97	SEWER	SEWER
98	FLUE	FLUE
99	EXHAUST	EXHAUST
100	VENT	VENT

TYPICAL PIPE HANGER DETAILS



TYPICAL PIPE IDENTIFICATION MARKERS



PLUMBING SYMBOLS AND ABBREVIATIONS

1	PIPE	PIPE
2	CONDENSATE	CONDENSATE
3	VENT	VENT
4	TRAP	TRAP
5	WATER	WATER
6	SEWER	SEWER
7	FLUE	FLUE
8	EXHAUST	EXHAUST
9	VENT	VENT
10	CONDENSATE	CONDENSATE
11	TRAP	TRAP
12	WATER	WATER
13	SEWER	SEWER
14	FLUE	FLUE
15	EXHAUST	EXHAUST
16	VENT	VENT
17	CONDENSATE	CONDENSATE
18	TRAP	TRAP
19	WATER	WATER
20	SEWER	SEWER
21	FLUE	FLUE
22	EXHAUST	EXHAUST
23	VENT	VENT
24	CONDENSATE	CONDENSATE
25	TRAP	TRAP
26	WATER	WATER
27	SEWER	SEWER
28	FLUE	FLUE
29	EXHAUST	EXHAUST
30	VENT	VENT
31	CONDENSATE	CONDENSATE
32	TRAP	TRAP
33	WATER	WATER
34	SEWER	SEWER
35	FLUE	FLUE
36	EXHAUST	EXHAUST
37	VENT	VENT
38	CONDENSATE	CONDENSATE
39	TRAP	TRAP
40	WATER	WATER
41	SEWER	SEWER
42	FLUE	FLUE
43	EXHAUST	EXHAUST
44	VENT	VENT
45	CONDENSATE	CONDENSATE
46	TRAP	TRAP
47	WATER	WATER
48	SEWER	SEWER
49	FLUE	FLUE
50	EXHAUST	EXHAUST
51	VENT	VENT
52	CONDENSATE	CONDENSATE
53	TRAP	TRAP
54	WATER	WATER
55	SEWER	SEWER
56	FLUE	FLUE
57	EXHAUST	EXHAUST
58	VENT	VENT
59	CONDENSATE	CONDENSATE
60	TRAP	TRAP
61	WATER	WATER
62	SEWER	SEWER
63	FLUE	FLUE
64	EXHAUST	EXHAUST
65	VENT	VENT
66	CONDENSATE	CONDENSATE
67	TRAP	TRAP
68	WATER	WATER
69	SEWER	SEWER
70	FLUE	FLUE
71	EXHAUST	EXHAUST
72	VENT	VENT
73	CONDENSATE	CONDENSATE
74	TRAP	TRAP
75	WATER	WATER
76	SEWER	SEWER
77	FLUE	FLUE
78	EXHAUST	EXHAUST
79	VENT	VENT
80	CONDENSATE	CONDENSATE
81	TRAP	TRAP
82	WATER	WATER
83	SEWER	SEWER
84	FLUE	FLUE
85	EXHAUST	EXHAUST
86	VENT	VENT
87	CONDENSATE	CONDENSATE
88	TRAP	TRAP
89	WATER	WATER
90	SEWER	SEWER
91	FLUE	FLUE
92	EXHAUST	EXHAUST
93	VENT	VENT
94	CONDENSATE	CONDENSATE
95	TRAP	TRAP
96	WATER	WATER
97	SEWER	SEWER
98	FLUE	FLUE
99	EXHAUST	EXHAUST
100	VENT	VENT



February 28th, 2017

Mr. John Ingram/Mr. Napoleon Haney
Public Works Director/Assistant Public Work Director
Village of Orland Park
15655 Ravinia Avenue
Orland Park, IL 60464

Re: Domestic Water Upgrade & Shower Renovations

Mr. Ingram & Mr. Haney,

Per our conversation, CTS recommends the following solution for Upgrading the Sportsplex Domestic Water System and Shower Renovations:

Sportsplex Scope of Work for DW Heaters and Shower Renovation:

Domestic Hot Water System

- Demo and remove existing storage tank and heat exchanger. Domestic hot water (DHW) and heating hot water system will be decoupled.
- Provide and install two (2) new water heaters with new expansion tank to match heater requirements.
- Connect new DHW system to existing distribution system.
- Insulate new piping.
- Tie-in new system to existing temperature controls to display real-time status.
- Provide start up and commissioning of new system.
- De-commissioning of existing temporary domestic hot water system.

Shower Renovation

General

- Demolition of existing shower piping and removal of drywall as needed to access existing piping.
- Demolition of existing temperature control system and mixing valve.
- Remove existing towel hooks, benches, mirrors and grab bars at the existing Men's room shower area and reinstall after ceramic tile installation.
- Remove existing towel hooks, benches, mirrors and grab bars, curtain rods at the existing Women's room shower area and reinstall after ceramic tile installation.

Shower Stalls

- Furnish and installed new hot and cold water piping to each shower in men's and women's shower area.
- Provide and install all necessary hardware – shower head and single valve or individual valve for water temperature control.
- Provide compartment overhead braced floor mounted Phenolic shower partitions at East side of Men's room shower area.
- Provide overhead shower rod at the existing Handicap shower in Men's shower area.

Ceramic Tile

- Remove existing ceramic tile floors in Men's and Women's shower area only.
- Float and prep floors in order to install new 2"x2" Mosaic floor tile.
- Prepare existing cinder block walls to accept new ceramic wall tile.
- Install new ceramic wall tile for the walls in shower area for both men's and women's locker room.
- Install epoxy grout on walls and standard grout on floors.

The following areas were added to the original "Not to Exceed" proposal in order to meet the required code compliance and ADA guidelines. These account for the additional \$105,224 above the original proposal of \$489,500.

These additional costs of \$105,224 are broken out as follows: General Construction (47%), Plumbing (15%), Architectural (11%), Project Development (8%), Mechanical/Electrical (9%), Structural (10%). A detailed description of this scope of work is as follows:

ADA and Code Compliance Scope of Work

Shower Renovation

The existing Men's shower drains do not meet code and will require the removal of the floor to install trench drains to meet code. The base project also includes partially removing the CMU wall for the ADA shower in the Men's shower room to meet existing ADA requirements. Below is a scope of work for the added cost to address ADA issues and Code compliance in the Men's Shower Area;

Demo

- Removal of Entire Ceiling (drywall) in ADA Shower
- Saw cut and remove existing concrete slab in men's shower area.
- Saw cut and remove CMU in Men's ADA shower.

Shower Areas

- Provide and install new Polymer Trench Drain and Grate.
- Install new 2" stainless steel vent piping and connect new vent piping for the new Trench Drains in the Men's shower area.
- Provide longer overhead shower rod at the existing ADA shower in Men's shower area to accommodate larger opening.

Drywall/Carpentry:

- Provide metal framing repairs at removed ceiling area in ADA shower.
- Installation of new Denssheild backer board for ADA shower ceiling.
- Install STO coatings at ADA shower room only.

Painting

- Prepare and paint new drywall ceilings with Epoxy paint in ADA shower area.
- Prepare and paint block walls in areas as noted on design drawings with Epoxy paint.

Ceramic Tile

- Float and prep floors up to 3/8" in order to install new 2"x2" Mosaic floor tile.
- Prepare remaining CMU wall in ADA shower to accept new ceramic wall tile.
- Install waterproofing, Epoxy grout, Sealer and Caulk at CMU wall in ADA shower

Misc.

- Debris removal (Spoils from cutting, CMU, Concrete Floor, Drywall...Etc.)
- Additional labor to cut and replace Men's Shower Area Floor.
- Re - Mobilization once floor cures (approximately 28 days)

The following additional alternates have also been provided for consideration:

Alternate Add FIM -1.1 Family Restroom Shower Upgrades

For and added cost, CTS can provide a renovated Family Restroom Shower Area and new distribution piping to allow for temperature control at each shower. Renovation will include new tile flooring, the addition of wall tile for the back wall where the new shower fixture will be installed. The scope of work will be similar to the Women's shower upgrades.

Alternate Add FIM - 1.2 Lighting Upgrades

For and added cost, CTS can provide new fixture in the all shower areas in place of reusing the existing fixtures. Fixtures will be rated for use in shower areas.

Alternate Add FIM - 1.3 Replace Hot and Cold Water Mixing Valves

For an added cost, CTS can provide new Hot and Cold Water Temperature Mixing Valves (TMV) in the Men's and Women's shower areas in place of reusing the existing valves. New TMVs will be mounted in existing cabinets. New TMVs will be Symmons 7-400A, lead free valve with piping assembly, temperature gauge and outlet ball valve.

Domestic Water and Shower Renovation Pricing:	\$594,724
Alternate Add FIM -1.1 Family Restroom Shower Upgrades	\$ 39,892
Alternate Add FIM - 1.2 Lighting Upgrades	\$ 6,431
Alternate Add FIM - 1.3 Replace Hot and Cold Water Mixing Valves	\$ 6,278

Total Domestic Water and Shower Renovation Pricing with Alternates above: \$647,325

Please contact me if you have any questions or need additional information. Thanks again.

Sincerely,

Michele A. James
CTS Account Manager
773.633.0691 (p)
mjames@ctsgroup.com