



ADDENDUM NO. 2
CONTRACT NO. CP8126-1 – GENERAL, MECHANICAL AND
ELECTRICAL CONSTRUCTION
 DATED: SEPTEMBER 27, 2010

SUFFOLK COUNTY DEPARTMENT OF PUBLIC WORKS
DIVISION OF SANITATION
HAUPPAUGE INDUSTRIAL PARK
S.C.S.D. NO. 18 – INDUSTRIAL SEWER DISTRICT EXPANSION
SUFF 0503

1. DELIVERY VIA EMAIL WITH ELECTRONIC DELIVERY CONFIRMATION

This Addendum is hereby made a part of the Contract Documents for the above noted project and construction contract and modifies the Original Bidding Documents. The Bidder shall note the following clarifications, deletions, additions, and changes to the Contract Documents and shall submit his/her bid, and be otherwise governed accordingly. Failure to acknowledge the Addendum may subject the Bidder to disqualification.

Bidder shall note the following:

- 1. Acknowledge receipt of the Addendum on page BF-2 located in the Contract Book of the Bid Documents.*
- 2. Addendum No. 2 for Project No. CP8126-1 consists of 26 pages plus all referenced sketches.*

NOTICE TO BIDDERS

- A. Page NB-1, first paragraph, line 3: Change date bids are to be received from “**Tuesday, September 28, 2010**” to “**Friday, October 15, 2010**”. Time (11 AM) to remain the same.
- B. Page NB-1, last paragraph, line 1: Replace the words “two hundred fifty dollars (\$250.00)” with “one hundred dollars (\$100.00)”.

BID FORM

- A. Page BF-4: Add new item “Allowance No. 13 – Sludge/Screenings/Grit Disposal Allowance..... \$ 100,000.00”.
- B. Unit Price item #34 on page BF-11 is to be applied to the Base Bid.

GENERAL CONDITIONS

- A. Pages GC-31 to GC-32: Installation Floater insurance is NOT required.



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CONTRACT SPECIFICATIONS

A. SECTION 01210 – ALLOWANCES

1. Paragraph 1.01A: Add item “13. Sludge/Screenings/Grit Disposal Allowance”.
2. Paragraph 1.13, Page 01210-7: Modify heading to read “1.15”.
3. Add new Paragraph 1.16:

1.16 - PAYMENTS TO BE MADE OUT OF “SLUDGE/SCREENINGS/GRIT
DISPOSAL ALLOWANCE

- A. Include the cash allowance of \$100,000 (ONE HUNDRED THOUSAND DOLLARS AND ZERO CENTS) in the amount bid for off-site disposal of sludge/screenings/grit that must be removed before contract related work is started.
- B. Funds will be drawn from this account to pay for the disposal costs for sludge that is deemed eligible by the engineer for payment under this allowance. Sludge/Screenings/Grit from process tanks, manholes, leaching pools, recharge beds and treatment process structures is eligible and shall be hauled to a Suffolk County contracted facility or landfill, if available, before being disposed of at another location selected by the Contractor. The actual invoiced hauling charge by the licensed hauler and disposal charges charged by the disposal site shall be the only charges eligible for payment under this cash allowance. Testing of waste materials as required by the selected disposal facility shall be eligible under this allowance. The actual invoiced fees for the required testing shall be eligible for payment under this cash allowance, not including sample collection.



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- C. Labor and materials required to collect the sludge/waste material prior to hauling it off site shall not be considered eligible for payment under this cash allowance.
 - D. Demolition and construction debris disposal costs are not included or eligible under this cash allowance.
 - E. Funds remaining at project closeout shall be credited to the Owner.
- B. SECTION 01522 – FIELD OFFICES
- 1. Paragraph 2.04, Add paragraph B as follows:
 - a. “B. Provide on-site telephone line and service for telephone, answering machine, and fax machine in Engineer’s field office. Provide separate lines for telephone and fax service.
- C. SECTION 01782 – OPERATING AND MAINTENANCE DATA
- 1. Paragraph 2.02L, line 1: Replace the word “fourteen (14)” with “ninety (90)”.
- D. SECTIONS 02122 and 02222 – ABANDONMENT OF EXISTING WASTEWATER DISPOSAL SYSTEM and DEMOLITION
- 1. Clarification regarding removal of sewage/sludge/process waste materials from existing structures:
 - a. Contractor shall be responsible to provide all labor, equipment and materials to perform wastewater bypass pumping, sludge/waste/debris removal and cleaning/disinfection of all process structures, pipelines and recharge beds for the contracted demolition and process conversion work. This work shall be included the lump sum bid amount(s).



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- b. The Owner shall not be responsible to empty or pump out existing process systems to allow access for the Contractor to perform the contract work.
- c. The Contractor shall transfer acceptable sewage and sludge to on-site treatment processes in lieu of hauling off site if the owner approves the sewage for transfer to existing facilities. All unacceptable sewage/sludge/process waste materials shall be removed from the site by the Contractor.
- d. The Contractor shall be paid for all unacceptable sewage/sludge/grit/screenings/process waste materials as required by the Owner to be hauled off-site for disposal as stipulated in Cash Allowance #13 – Sludge/Screenings/Grit Disposal Allowance.
- e. The top 6 inches of material in the floor area of each existing wastewater recharge bed shall be excavated and removed from the project site by the Contractor. Cost for disposal of excavated materials from the effluent recharge beds shall not be eligible under the Sludge/Screenings/Grit Disposal Allowance. The labor, equipment, and disposal costs required to collect, transport, and dispose of the materials shall be included in the lump sum work.
- f. The Contractor shall limit the volume of sludge and process waste materials to be hauled off site for disposal by dewatering and pumping out acceptable wastes to on site systems to the greatest extent possible before removal of unacceptable wastes for offsite disposal.

E. SECTION 02222 – DEMOLITION

- 1. Add the following to the end of Paragraph 3.11A(2): “and blowers”.



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F. SECTION 02614 – CORRUGATED POLYETHYLENE PIPE

1. Paragraph 2.01B: Remove entirely.

G. SECTION 11300 – SEQUENCING BATCH REACTOR SYSTEM

1. Paragraph 2.01AA(16): Delete first sentence.
2. Second paragraph 2.01AA entitled “SCADA” should be changed to 2.01CC.

H. SECTION 11350 – SLUDGE THICKENING SYSTEM

1. Paragraph 2.05D(2) – Modify “120VAC” to “480VAC”.

I. SECTION 11375 – AERATION EQUIPMENT

1. Subsection 2.11: Modify title to read “REPLACEMENT AND CONVERSION OF EXISTING EQUALIZATION TANK BLOWERS”.
2. New Paragraph 2.11A: Insert a new paragraph “A” to read:

“Remove the Owner specified one (1) existing blower and replace in kind with a new Sutorbilt 8MVP-BHC Blower, Model GAHMBPA. Blower must be new, not remanufactured. Blower must be supplied and installed by a factory authorized service center for Sutorbilt/Gardner Denver, authorized to perform installation, warranty and service work. Excelsior Blower Systems, Lebanon, NJ (800-756-3943) is the local service center. Installation will include all labor and materials to replace the blower, motor and discharge silencer. This includes, but is not limited to, the removal of old unit, placement of new unit on existing base, installation of new 50 hp drive motor, new discharge silencer, lubrication and test run. Provide and install with new V-Belt drive component set, 1770 RPM, 326T motor, enabling blower to output 600 ACFM at 5 PSIG.”



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3. Paragraph 2.11A: Modify existing paragraph “A” (new paragraph “B”) to read:
“B. Provide and install a new V-Belt drive component set on the one (1) existing blower Sutorbilt 8MVP-BHC blower and the 50 HP to remain, 1770 RPM, 326T motor, enabling blower to output 600 ACFM at 5 PSIG.”

J. SECTION 11400 – POLISHING FILTER SYSTEM

1. Paragraph 2.02A, line 5: Replace “18-8” with “304”.
2. Paragraph 2.10A: Add the words “operating interface anti-glare treatment, UPS mounting shelf, window kit, and bar graph meters (for level within each filter)” to the end of this paragraph.
3. Paragraph 2.10J(1): Revise paragraph to read “A UL listed Self-Protected Combination Motor Controller shall be provided for all motors. The starter shall combine all the functions of a disconnect, circuit breaker, contactor and overload relay in a coordinated motor controller. The starter shall be an IEC rated starter, provide a minimum 42 kA interrupt rating, a padlockable isolation knob and a 600 VAC insulation rating. Contactor coil voltage shall be rated for 120 VAC. Overload protection shall be class 10 and be ambient compensated.”
4. Paragraph 2.10J(2): Replace “Square D/INTEGRAL 18, 32 or 63” with “Schneider Electric TESYS U or approved equal”.

K. SECTION 13402 – MEASUREMENT AND CONTROL INSTRUMENTATION

1. Paragraph 1.01A(5): Modify to read: “Three (3) annunciator panels.”
2. Paragraph 1.08D: Modify heading to read: “Loops 401-411”.



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3. Paragraph 2.02E: Revise paragraph to read:

All high and low level alarm conditions shall be annunciated using the control panel operator interface for remote monitoring using the signals generated by the backup floats.

Each of the following high level backup floats shall be wired directly to the “TANK HIGH LEVELS ANNUNCIATOR PANEL”. Each high level signal shall then be relayed from the “TANK HIGH LEVELS ANNUNCIATOR PANEL” back to the control panel operator interface for remote monitoring.

- a. “NORTH POST-EQ TANK HIGH WATER LEVEL FLOAT”
- b. “CENTER POST-EQ TANK HIGH WATER LEVEL FLOAT”
- c. “SOUTH POST-EQ TANK HIGH WATER LEVEL FLOAT”

Each of the following low level backup floats shall be wired directly to the control panel operator interface for remote monitoring.

- a. “NORTH POST-EQ TANK LOW WATER LEVEL FLOAT”
- b. “CENTER POST-EQ TANK LOW WATER LEVEL FLOAT”
- c. “SOUTH POST-EQ TANK LOW WATER LEVEL FLOAT”

4. Paragraph 2.03 - PRE-EQUALIZATION TANK CONTROL PANEL (CP-2), General label revisions:

- a. Revise the numbering system for the six (6) pre-equalization pump locations from Pump #1, Pump #2, Pump #3 and Pump #4 etc., to Pump #1A and Pump #1B in Pre-EQ tank #1; Pump #2A and Pump #2B in Pre-EQ tank #2 and Pump #3A and Pump #3B in Pre-EQ Tank #3”



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5. Paragraph 2.03I: Revise paragraph to read:

High and low level alarm conditions shall be annunciated using the control panel operator interface for remote monitoring using the signals generated by the backup floats.

Each of the following high level backup floats shall be wired directly to the “TANK HIGH LEVELS ANNUNCIATOR PANEL”. Each high level signal shall then be relayed from the “TANK HIGH LEVELS ANNUNCIATOR PANEL” back to the control panel operator interface for remote monitoring.

- a. “PRE-EQ TANK NO. 1 HIGH WATER LEVEL FLOAT”
- b. “PRE-EQ TANK NO. 2 HIGH WATER LEVEL FLOAT”
- c. “PRE-EQ TANK NO. 3 HIGH WATER LEVEL FLOAT”

Each of the following low level backup floats shall be wired directly to the control panel operator interface for remote monitoring.

- a. “PRE-EQ TANK NO. 1 LOW WATER LEVEL FLOAT”
- b. “PRE-EQ TANK NO. 2 LOW WATER LEVEL FLOAT”
- c. “PRE-EQ TANK NO. 3 LOW WATER LEVEL FLOAT”

6. Paragraph 2.04E: Revise paragraph to read:

High and low level alarm conditions shall be annunciated using the control panel operator interface for remote monitoring using the signals generated by the backup floats.



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The following high level backup float shall be wired directly to the “TANK HIGH LEVELS ANNUNCIATOR PANEL.” The high level signal shall then be relayed from the “TANK HIGH LEVELS ANNUNCIATOR PANEL” back to the control panel operator interface for remote monitoring.

- a. “MULTI-USE TANK HIGH WATER LEVEL FLOAT”

The following low level backup float shall be wired directly to the control panel operator interface for remote monitoring.

- a. “MULTI-USE TANK LOW WATER LEVEL FLOAT”

- 7. Paragraph 2.05H(3): Revise paragraph to read:

High and low level alarm conditions shall be annunciated using the control panel operator interface for remote monitoring using the signals generated by the backup floats.

The following high level backup float shall be wired directly to the “TANK HIGH LEVELS ANNUNCIATOR PANEL.” The high level signal shall then be relayed from the “TANK HIGH LEVELS ANNUNCIATOR PANEL” back to the control panel operator interface for remote monitoring.

- a. “INFLUENT WET WELL HIGH WATER LEVEL FLOAT”

The following low level backup float shall be wired directly to the control panel operator interface for remote monitoring.

- a. “INFLUENT WET WELL LOW WATER LEVEL FLOAT”

- 8. Paragraph 2.08A: Revise to read: “The Contractor shall provide three (3) annunciator panels for installation as shown on the Drawings.”



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9. Paragraph 2.08J: Revise to read:

Under alarm conditions the nameplate shall be illuminated in white. The lights shall not be lit under normal conditions. The ITT treatment facility shall be annunciated using two panels. The first ITT panel, referred to as the “GENERAL ANNUNCIATOR PANEL – ITT”, shall consist of four (4) columns of nameplates with eight (8) nameplates in the first three (3) columns and six (6) in the fourth column. The second ITT panel, referred to as the “TANK HIGH LEVELS ANNUNCIATOR PANEL,” shall consist of four (6) columns of nameplates with four (4) nameplates in the first five (5) columns and two (2) in the fourth column. The Heartland annunciator panel referred to as the “GENERAL ANNUNCIATOR PANEL - HEARTLAND”, shall consist of eight (8) nameplates total.”

10. Insert the following paragraph between paragraphs 2.08L and 2.08M:

- a. The following displays shall be provided for the “TANK HIGH LEVELS ANNUNCIATOR PANEL”:

- 1) INFLUENT PUMP STATION HIGH LEVEL ALARM (CP-4)
- 2) PRE-EQ TANK NO. 1 HIGH LEVEL ALARM (CP-2)
- 3) PRE-EQ TANK NO. 2 HIGH LEVEL ALARM (CP-2)
- 4) PRE-EQ TANK NO. 3 HIGH LEVEL ALARM (CP-2)
- 5) NORTH SBR TANK HIGH LEVEL ALARM (CP-1)
- 6) CENTER SBR TANK HIGH LEVEL ALARM (CP-1)
- 7) SOUTH SBR TANK HIGH LEVEL ALARM (CP-1)



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- 8) NORTH POST-EQ TANK HIGH LEVEL ALARM (CP-3)
- 9) CENTER POST-EQ TANK HIGH LEVEL ALARM (CP-3)
- 10) SOUTH POST-EQ TANK HIGH LEVEL ALARM (CP-3)
- 11) NORTH SLUDGE HOLDING TANK HIGH LEVEL ALARM (CP-5A)
- 12) SOUTH SLUDGE HOLDING TANK HIGH LEVEL ALARM (CP-5A)
- 13) MULTI-USE TANK HIGH LEVEL ALARM (CP-8)
- 14) THICKENED SLUDGE HOLDING TANK HIGH LEVEL ALARM (CP-5A)”
- 15) “EFFLUENT FILTER #1 HIGH LEVEL (CP-10A)”
- 16) “EFFLUENT FILTER #2 HIGH LEVEL (CP-10B)”
- 17) “SPARE”
- 18) “SPARE”
- 19) “SPARE”
- 20) “SPARE”
- 21) “SPARE”
- 22) “SPARE”



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11. Paragraph 2.08L: Modify item #23 from “SPARE” to “GENERATOR RUNNING”.
 12. Paragraph 2.12: Modify heading such that “LE 410” reads “LE 411”.
 13. Paragraph 2.13B(1): Modify “13 total” to “14 total”.
- L. SECTION 14650 – JIB CRANE AND MONORAIL
1. Paragraph 1.02D, line 3: Delete the words “in a seashore type environment”.
 2. Paragraph 1.02F, line 2: Insert the words “Spantec Systems Inc, Huntington, (631) 547-0466,” after “Integrated Solutions”.
 3. Paragraph 1.05C: Modify note by replacing the words “mechanical load brake” with “load brake as per CMAA70 spec for cranes” and the words “electrical load brake” with “electrical motor brake”.
 4. Paragraph 2.01K: Insert a new paragraph to read “Provide anti-condensation heaters in housings of motors, brakes, push button stations and control panels”.
 5. Paragraph 2.03C, line 1: Replace the words “Weston type” with “load brake as per CMAA70 spec for cranes”.
 6. Paragraph 2.04B: Add the sentence “Provide anti-condensation heaters in housing of motors, brakes, push button stations and control panels.” to the end of this paragraph.
- M. SECTION 16075 – ELECTRICAL IDENTIFICATION
1. Paragraph 2.02E: Modify second sentence to read “Adhesives shall be used on electrical enclosures that require a NEMA 4X rating”.



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CONTRACT DRAWINGS

A. GENERAL:

1. Revise the numbering system for the six (6) pre-equalization pump locations from Pump #1, Pump #2, Pump #3 and Pump #4, etc., to Pump #1A and Pump #1B in Pre-EQ tank #1; Pump #2A and Pump #2B in Pre-EQ tank #2 and Pump #3A and Pump #3B in Pre-EQ Tank #3. This labeling change shall be reflected in all the general, mechanical & electrical plan sheets corresponding to the Pre-equalization pumps.

B. SHEET HP1:

1. Modify Mass Balance Diagram to change disk filter effluent BOD value from “105 lbs/day (5 mg/L)” to “210 lbs/day (10 mg/L)”. (see sketch #1 included herein)

C. SHEET D1

1. Update photograph #3 to show second RBC blower and concrete pad.
2. Modify demolition plan to include additional RBC blower pad.
3. Above revisions as shown in sketch #2 included herein.

D. SHEET D4:

1. Note #4, line 4: Replace the word “filling” with “placing Type C controlled fill. (See specification Section 02316).”

E. SHEET C4.2:



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1. Add a new Note “5A: Temporary bypass of existing plant influent screening equipment shall only be permitted during the demolition of existing sludge holding tank #1. Demolition of this tank will only be permitted after the temporary screenings bypass piping plan has been approved by Engineer and the temporary screenings handling equipment is on-site and ready for installation. This temporary bypass shall be coordinated by the Contractor so as to minimize the overall duration of the bypass of the existing plant influent screening equipment.”
- F. SHEET C5:
1. Add second RBC blower pad to be demolished to site demolition plan. (see sketch #3 included herein)
- G. SHEET C6:
1. Modify to show routing of plant/recycled water from Operations Building to Headworks Building.
 2. Modify callout of water line(s) labeled “PW” to “PW/RW”.
 3. Above revisions as shown in sketch #17 included herein and referenced in item Z below.
- H. SHEET C7:
1. Detail A:
 - a. Modify callout of water line(s) labeled “PW” to “PW/RW”.
- I. SHEET C8:



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1. Modify to show routing of plant/recycled water from operations building to headworks building. (see sketch #17 referenced in item Z below)
- J. SHEET C8.1:
1. Modify to show routing of plant/recycled water from operations building to headworks building. (see sketch #17 referenced in item Z below)
- K. SHEET C10:
1. Modify contour lines and spot grades to reflect change to T.O.T. elevation of proposed thickened sludge holding tank from 151.00' to 150.00'. (see sketch #4 included herein)
- L. SHEETS C11, C11.1, C13: same changes as SHEET C10.
- M. SHEET C12:
1. Detail #4:
 - a. Add callout for 1 foot embedment of PVC SCH 40 pipe sleeve for fence post, as shown in details 5 and 6.
 - b. Modify callout for PVC SCH 40 pipe sleeve to read "PVC SCH 40 PIPE SLEEVE FOR FENCE POST AT WALL TYPE 5. SEE NOTE 2, THIS SHEET".
- N. SHEET C17:
1. Detail #5: Replace Yard Hydrant Detail #5 this sheet with Detail #1 of sheet MPT12.
- O. SHEET C20:



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1. Modify details 2 and 3: Raise blind flange on both details and increase pipe size at or above flange from 2-inch to 3-inch.
2. Add the following note to details 2, 3 and 7: “Match main line pipe diameter. (minimum: 4-inch, maximum: 8-inch)”.
3. Above revisions as shown in sketch #5 included herein.

P. SHEET MCW1:

1. Detail #2:
 - a. Add callout to top of proposed thickened sludge holding tank that reads: “Remove approximately 12” thick layer of topsoil from holding tank to expose top slab”.
 - b. Add callout to manhole castings of proposed thickened sludge holding tank that reads: “Remove and replace existing manhole castings with heavy duty 30” slab top gasketed castings, Pacific Marine & Industrial Model R-1581 or equal. Anchor casting to top slab with stainless steel anchors. Turn over existing castings to Owner”.
2. Above revisions as shown in sketch #6 included herein.

Q. SHEET MCW2:

1. Sections #1, #2 and #3: Lower elevation of proposed thickened sludge holding tank and piping by 1 foot so that the T.O.T. elevation is equal to 150.00’. Adjust elevations of proposed piping accordingly. (see sketches #7-9 included herein)

R. SHEET MHB1:



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1. Modify callout for rubber parking car stops to read: “4 ft. rubber parking curbs as manufactured by GNR Technologies or equal (TYP. x 9)”
2. Adjust depiction of platform grating within headworks room such that the piping below is visible.
3. Above revisions as shown in sketch #10 included herein.

S. SHEET MHB2:

1. Detail #4: Modify to show routing of HWOFF piping leaving the building. (see sketch #10A included herein)

T. SHEET MPT7:

1. PARTIAL PLAN SOUTH POST-EQ TANK:
 - a. Remove the plug valve callout located at south end of tank.
 - b. Add a 90-degree elbow to end of 12” HE line. (see sketch #11 included herein)
 - c. Modify the callout of camlock connection to read “3” Camlock Connection (TYP. x 3)”. (see sketch #11 included herein)

U. SHEET MPT8:

1. Locate specified 6” diameter ball check valves on the above tank top piping for Sludge Holding Tank pumps in the South and North Sludge Holding tanks as shown on the attached Sketches #12 & #13. Relocate the plug valve on the South Sludge Holding Tank pump discharge to piping downstream of check valve.

V. SHEETS MOB1, MOB2, MOB3:



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1. Change size of recycled water line upstream of booster pump station within filter room from 2-inch & 4-inch to 6-inch. (see sketch #14 included herein – depicts sheet MOB3 only)

W. SHEET MD11:

1. Section “A”: Modify size of drain from 2-inch to 6-inch. (see sketch #15 included herein)

X. SHEET P1:

1. Replace all callouts for roof drain detail from “5/A7” to “7/A10”.
2. Modify callout of water line(s) labeled “RW” to “PW/RW”.
3. Modify booster pump influent pipe size from plant effluent filters to be 6” D.I. pipe. (see sketch #16 included herein)

Y. SHEET P2:

1. Modify callout of water line(s) labeled “RW” to “PW/RW”.

Z. SHEET P4:

1. Show routing of plant/recycled water from Operations Building to Headworks Building.
2. Modify callout of water line(s) labeled “PW” to “PW/RW”.
3. Above revisions as shown on Sketch #17 included herein.

AA. SHEET SLD2:



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SUFF 0503**

1. Update callout of Modified Existing Single Line Diagram showing connection “TO MCC-1 IN NEW OPERATIONS BUILDING”.
2. Modify the wiring callout on both sides of the 600/3 MCB from “T” to “R”.
3. Above revisions as shown on Sketch #18 included herein.

BB. SHEET SLD3:

1. Add feeder type “HH” that represents “3/4” E.C. W/ DRAG LINES” to the Single Line Power Diagram Schedule.

CC. SHEET SLD5:

1. Modify wiring type for “CP-7 - Future Polymer System” from “L” to “HH”.

DD. SHEET SLD6:

1. Change disconnect switches for rotary drum screen influent valves on the MCC-4 SINGLE LINE DIAGRAM from type “DS-1” to type “DS-9”.

EE. SHEET EPT1:

1. Modify wiring callout from disconnect switch of multi-use tank pump from “3 #10 AWG + #10 AWG GND IN 3/4” E.C.” to “3 #12 AWG + #12 AWG GND IN 3/4” E.C”.

FF. SHEET EPT2:

1. Modify NORTH SBR, CENTRAL SBR and SOUTH SBR high level float switch homerun callouts from “To CP-1 via MCC-1A” to “To TANK HIGH LEVELS ANNUNCIATOR PANEL from CP-1 via MCC-1A”.



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2. Modify NORTH POST-EQ and SOUTH POST-EQ tanks high level float switch homerun callouts from “To CP-3 via MCC-1A” to “To TANK HIGH LEVELS ANNUNCIATOR PANEL from CP-3 via MCC-1A”.
3. Modify CENTRAL POST-EQ tank high level float switch homerun callout from “To CP-3 via MCC-2Q” to “TANK HIGH LEVELS ANNUNCIATOR PANEL from CP-3 via MCC-2Q”.
4. Modify NORTH SLUDGE HOLDING TANK and SOUTH SLUDGE HOLDING TANK high level float switch homerun callouts from “To CP-5A” to “To TANK HIGH LEVELS ANNUNCIATOR PANEL via CP-5A”.
5. Modify MULTI-USE TANK high level float switch homerun callout from “To CP-8 via MCC-1A” to “To TANK HIGH LEVELS ANNUNCIATOR PANEL from CP-8 via MCC-1A”.

GG. SHEET EOB2:

1. Modify the quantities of #14 AWG wire in the ¾-inch electrical conduits from “CP-5A” and “future CP-5B junction box” to “ANNUNCIATOR PANEL” from “6” in each conduit to “18” in each conduit.
2. Modify the quantities of #14 AWG wire in the ¾-inch electrical conduits from “CP-10A” and “CP-10B” to “ANNUNCIATOR PANEL” from “6” in each conduit to “18” in each conduit.
3. Modify the quantity of #14 AWG wire in the 2-inch electrical conduit from “ANNUNCIATOR PANEL” to the “HEADWORKS BUILDING via control pullbox” from “84” to “100”.



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4. Modify the quantity of #14 AWG wire in the electrical conduit from “AUTODIALER” to the “ANNUNCIATOR PANEL” from “60” to “84” and increase conduit size from “1 ½-inch” to “2-inch”.
5. Increase number of 1-inch spare conduits with drag wires from “future STB” to “HEADWORKS BUILDING via control pullbox” from “4” to “18”.
6. Insert new wiring from switchboard sections “D” and “G” to annunciator panel with callout “14 #14 AWG IN 1” E.C.”. (see sketch #19 included herein)

HH. SHEET EOB2.1:

1. Modify callout for the annunciator panel to read: “ANNUNCIATOR PANEL/TANK HIGH LEVELS ANNUNCIATOR PANEL” and shift leader to panel closest to the restroom door.
2. Add the following Note 1: “TANK HIGH LEVELS ANNUNCIATOR PANEL to be mounted below the ANNUNCIATOR PANEL. Provide 84 #14 AWG in 2-inch diameter electrical conduit between the two panels.”
3. Modify the quantity of #14 AWG wire in the 1-inch electrical conduit from CP-1 to the ANNUNCIATOR PANEL from “10” to “24”.
4. Modify the quantity of #14 AWG wire in the ¾-inch electrical conduit from CP-3 to the ANNUNCIATOR PANEL from “10” to “18”.
5. Modify callout of wiring from CP-1 to multiple MCC buckets to read: “(5) sets of 20 #14 AWG in (5) 1” E.C. +”.
6. Items 1 and 2 above are shown in sketch #20 included herein.

II. SHEET EEQ2:



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1. Modify homerun callouts of (3) pre-equalization tank high level floats from “TO CP-2” to “TO TANK HIGH LEVELS ANNUNCIATOR PANEL FROM CP-2 VIA CONTROL PULLBOX AT HEADWORKS BUILDING”.
2. Modify homerun callout of influent pump station high level float from “TO CP-4” to “TO TANK HIGH LEVELS ANNUNCIATOR PANEL FROM CP-4 VIA CONTROL PULLBOX AT HEADWORKS BUILDING”.

JJ. SHEET EHB3:

1. Modify “HEADWORKS BUILDING ENLARGED MCC ROOM CONTROL PLAN” by increasing the number of #14 AWG wires routed from the “new NEMA4X stainless steel control pullbox/splice box” to the “annunciator panel in operations building” from “84” to “100”.
2. Modify “HEADWORKS BUILDING ENLARGED MCC ROOM CONTROL PLAN” by increasing the number of 1-inch spare conduits with drag wires from the “new NEMA4X stainless steel control pullbox/splice box” to the “future SCADA terminal box” from “4” to “18”.
3. Modify Note 2 of the “HEADWORKS BUILDING ENLARGED MCC ROOM CONTROL PLAN” to read:

Contractor shall provide (2) 1” spare E.C. with drag wires from CP-2, CP-4, C-11, CP-12A, 12B, 12C, CP-15 to the control pullbox/splicebox.

KK. SHEET EEG1:

1. Insert the word “PRIMARY” between the words “FUEL TANK” and “VENT” within the callouts for the vents of the generator fuel tank within the “Generator Floor Plan” detail and “Section B-B”.



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LL. SHEET EEG2:

1. Detail #1: Change the wiring callout for the connection between the generator connection cabinet and section C of the generator switchboard from “3 SETS OF 4# 500 MCM + #3/0 AWG GND IN (3) 4” E.C.” to “4 SETS OF 4 - 350 MCM + #3/0 AWG GND IN (4) 3 1/2” E.C.”
2. Detail #1: Change the callout of wiring between the generator and automatic transfer switches in switchboard sections “D” and “G” from “2 SETS OF 30# 14 AWG IN 1 1/4” E.C. + CAT-5E IN (2) 1” E.C.” to “2 SETS OF 30# 14 AWG IN (2) 1 1/4” E.C. + (2) CAT-5E CABLES IN (2) 1” E.C.”.
3. Above revisions as shown on Sketch #21 included herein.

MM. SHEET EID4:

1. Modify Detail #3 callout for THICKENED SLUDGE HOLDING TANK high level float switch for “To CP-5A” to “To TANK HIGH LEVELS ANNUNCIATOR PANEL via CP-5A.”

NN. SHEET H4:

1. Detail #1 and Roof Plan:
 - a. Modify to depict side discharge and increase in size of concrete pad (see sketches #22 & #23 included herein).

OO. SHEET H-C5:

1. Add detail to show building sewer drop connection, chemical feed and concrete bench to be installed within new dog house manhole MH#23A. (see sketch #24 included herein)



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2. Remove callout that reads: “DOUBLE WALL POTASSIUM PERMANGANATE FEED” from the Partial Site Plan.
3. Note #2: Modify note to state “DR-18” piping material to correspond with plan view.

PP. SHEET H-C8:

1. Modify callout on profile view from “LIMITS OF UNIT PRICING” to “EASTERN LIMIT OF UNIT PRICE ITEMS 4 THRU 33.”

QQ. SHEET H-C12:

1. Add the following callout at STA 37+70: “WESTERN LIMIT OF UNIT PRICE ITEMS 4 THRU 33”.

RR. SHEET H-D1:

1. Note #2, line 3: Replace the word “filling” with “placing Type C controlled fill. (See specification Section 02316).”

SS. SHEET H-M1:

1. Note #1, line 1: Change dimension from “30” to “36”.
2. Note #2, line 1: Change dimension from “30” to “36”.
3. Note #3, line 1: Change dimensions from “38 x 38” to “36 x 36”.
4. Change sheet reference in callouts for notes 2 and 3 from “M3” to “H-M1”.

TT. SHEET H-E3:



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1. EXISTING CONTROL BUILDING ELECTRICAL FLOOR PLAN:

- a. Add wiring connection from annunciator panel to generator with the callout “20 #14 AWG IN 1” E.C. + 20 #12 AWG IN 1-1/4” E.C.”. (see sketch #25 included herein)

UU. SHEET H-E5:

1. Modify wiring callout from CP-14 to the annunciator panel in control building from “20 #14 AWG IN 1” E.C.” to “20 #14 AWG IN 1” E.C. + 20 #12 AWG IN 1-1/2” E.C.”.

VV. SHEET H-E7:

1. Detail #1: Update “LEAK DETECTION/OVERFILL ALARM CONTROLS” detail. (see sketch #26 included herein)
2. Detail #3: Modify circuit breaker callout from “15/1” to “20/1”.
3. Detail #4: Update “EMERGENCY VENT” detail with new detail entitled “EMERGENCY VENT SPILL BOX DETAIL”. Also add associated section view. (see sketch #27 included herein)
4. Detail #5:
 - a. Modify detail title to read “SECTION A-A”.
 - b. Insert callout for overall dimension of section to read “SEE GENERATOR PAD PLAN FOR DIMENSION”.
5. Detail #6: Update “FUEL SUPPLY SCHEMATIC” detail. (see sketch #28 included herein)



ADDENDUM NO. 2

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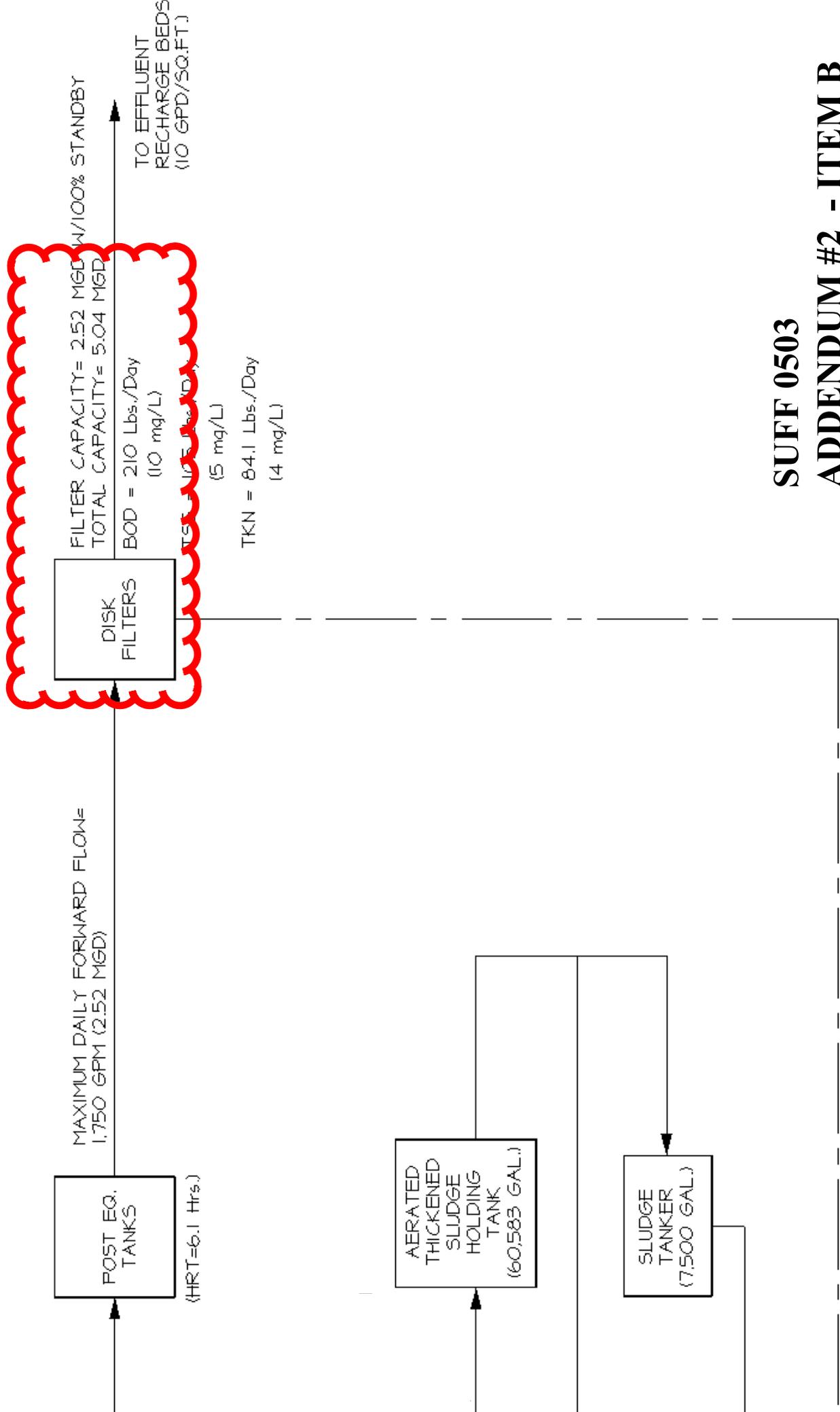


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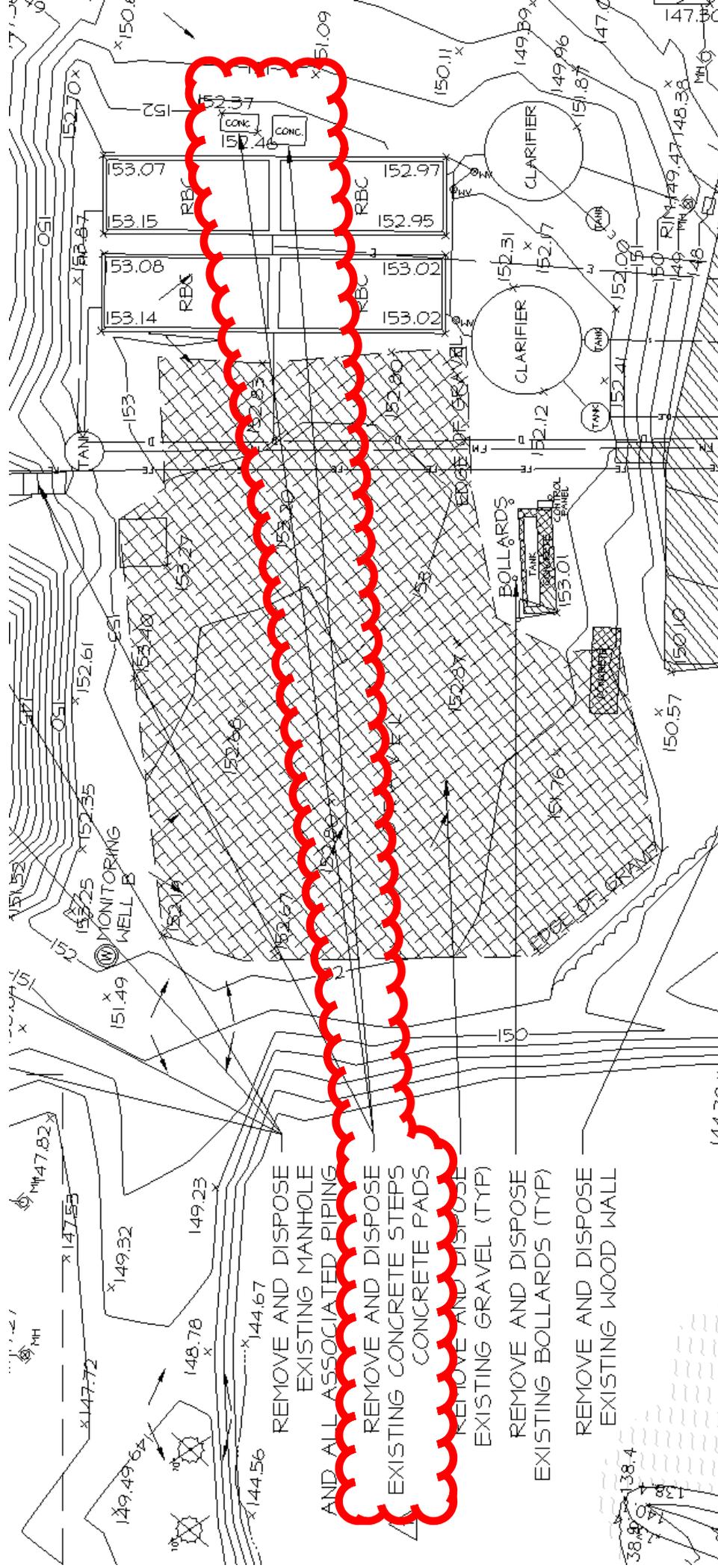
6. Detail #8:
 - a. Modify title to read “SPILLBOX DETAIL (FUEL FILL AND DRAIN LINES)”.
 - b. Insert the words “(YELLOW FOR DIESEL)” at the end of fuel fill marking callout.

**END OF ADDENDUM NO. 2
FOR
CONTRACT NO. CP8126-1**

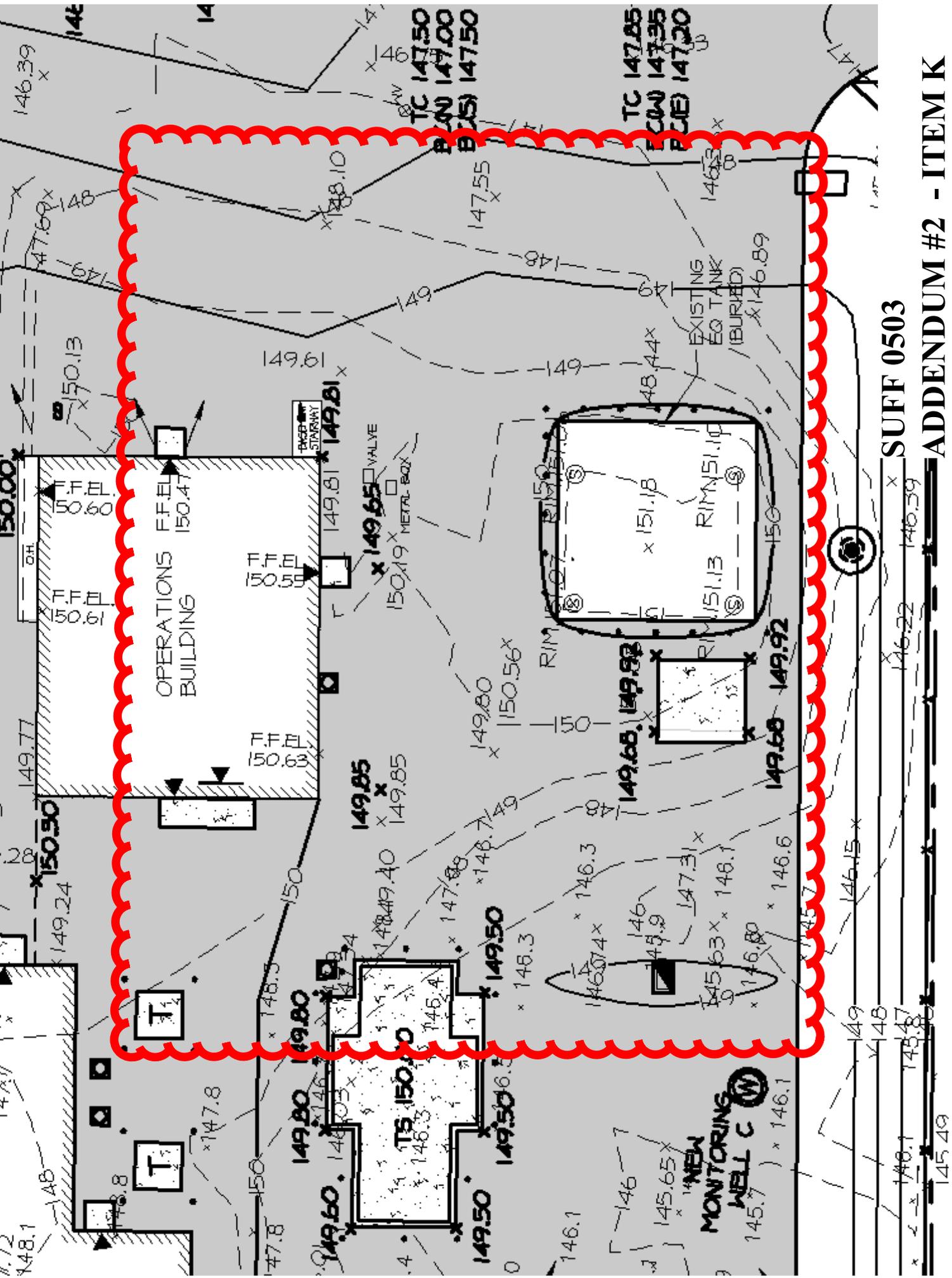
A: CAW;PJP | PM: PJP | LSB: PPETRICCIONE |
LSD: 9/27/2010 3:15 PM | LPD: 9/27/2010 3:15 PM | 23 SEPTEMBER 2010 | R#: 2 | P: 26 |
X:\SUFF (_SCDPW) - 10945\SUFF0503 HAUPPAUGE SD-18 (2006 FORMAT)\03-BID TAB & CONTRACT
ADDENDUMS\ADDENDUM #2 20100927 PJP CAW FINAL.DOCX |ADDENDUM NO. 2 | SUFF 0503 |



SUFF 0503
ADDENDUM #2 - ITEM B
SHEET HP1 - SKETCH # 1



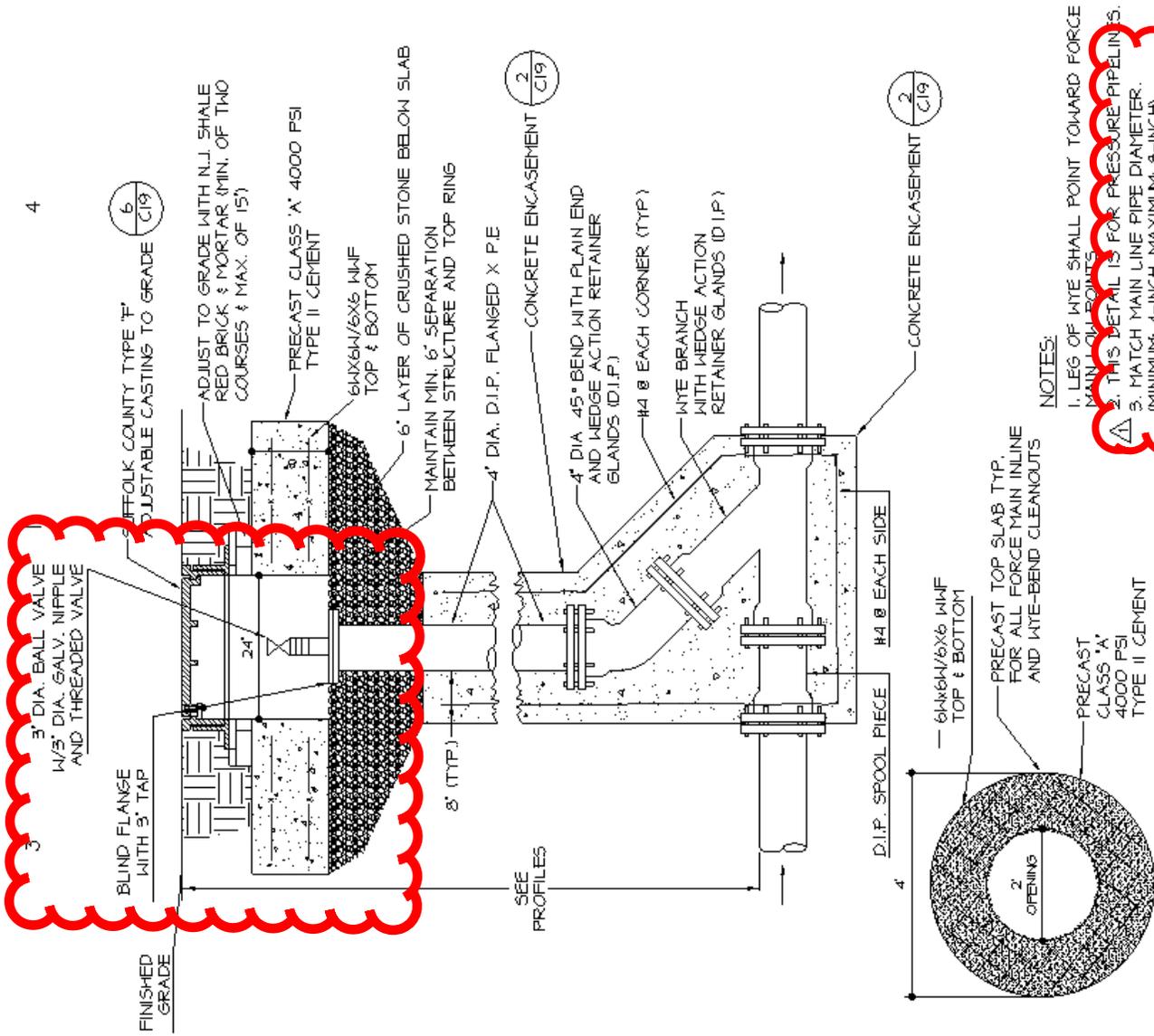
SUFF 0503
ADDENDUM #2 - ITEM F
SHEET C5 - SKETCH # 3



SUFF 0503

ADDENDUM #2 - ITEM K

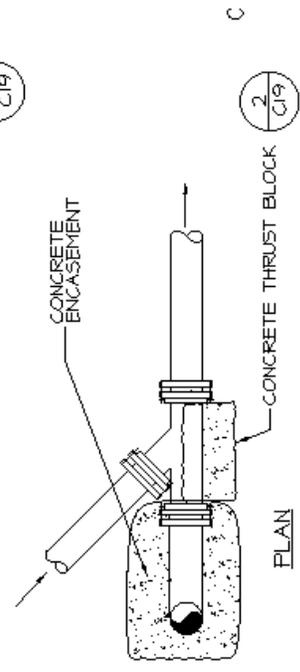
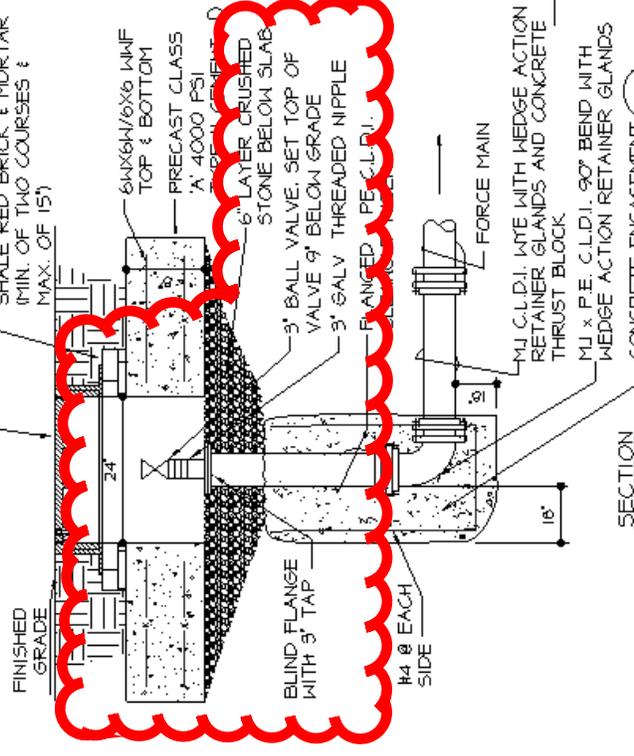
SHEET C10 - SKETCH # 4



NOTES:

1. LEG OF WYE SHALL POINT TOWARD FORCE MAIN CLEANOUT POINTS.
2. THIS DETAIL IS FOR PRESSURE PIPELINES.
3. MATCH MAIN LINE PIPE DIAMETER. (MINIMUM: 4-INCH, MAXIMUM: 8-INCH)

② FORCE MAIN INLINE CLEANOUT DETAIL
NO SCALE



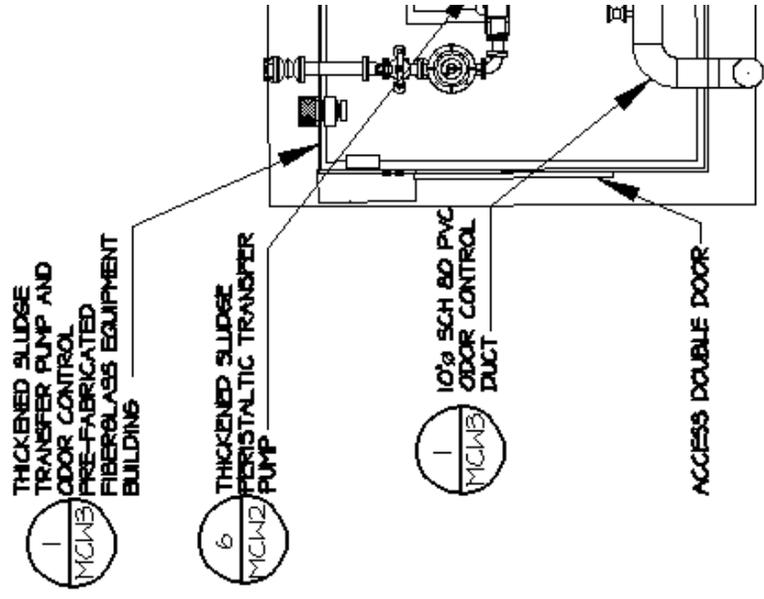
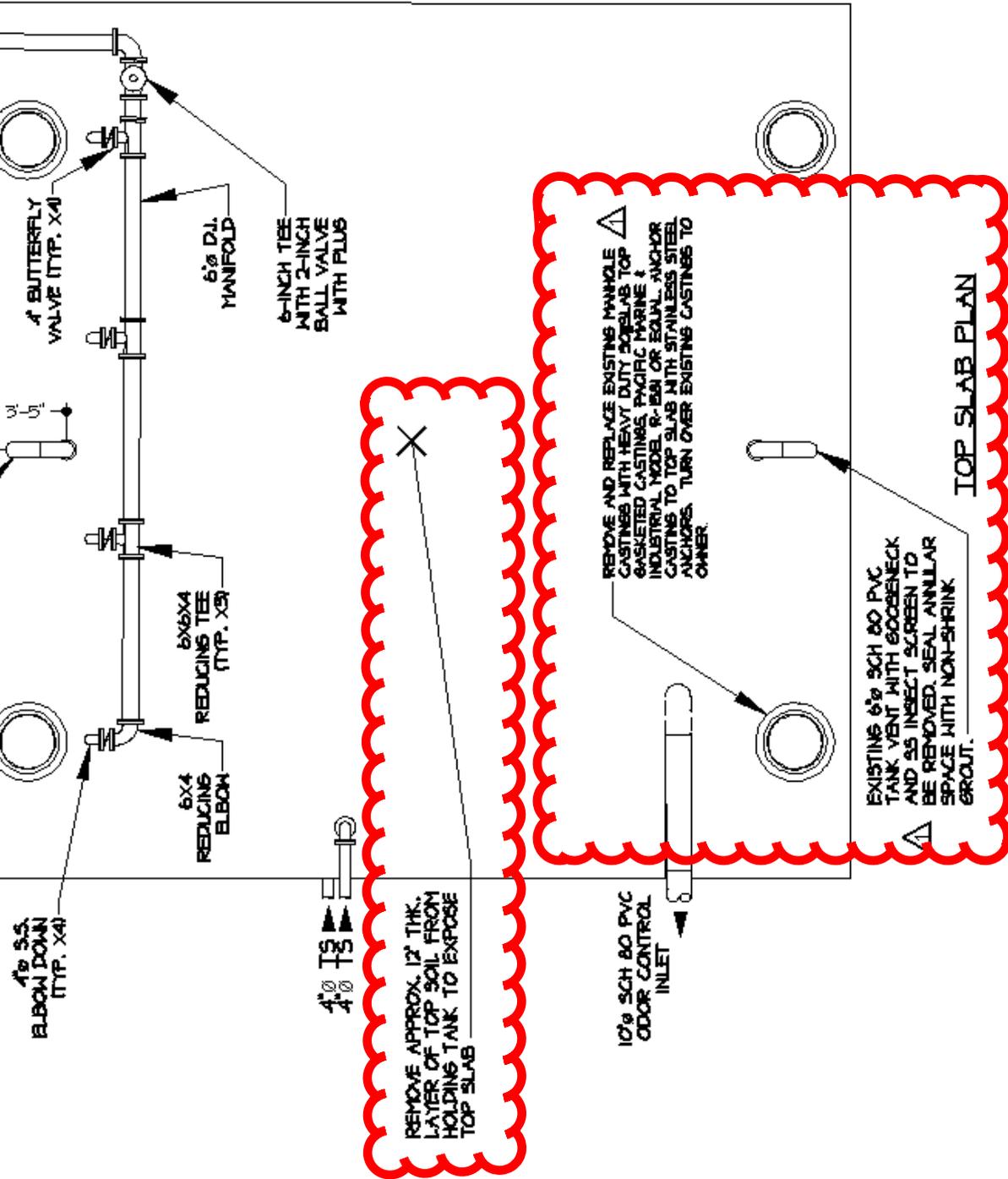
③ FORCE MAIN WYE-BEND
NO SCALE

NOTE:

1. THIS DETAIL IS FOR PRESSURE PIPELINES.
2. MATCH MAIN LINE PIPE DIAMETER. (MINIMUM: 4-INCH, MAXIMUM: 8-INCH)

SUFF 0503

**ADDENDUM #2 - ITEM O
SHEET C20 - SKETCH # 5**

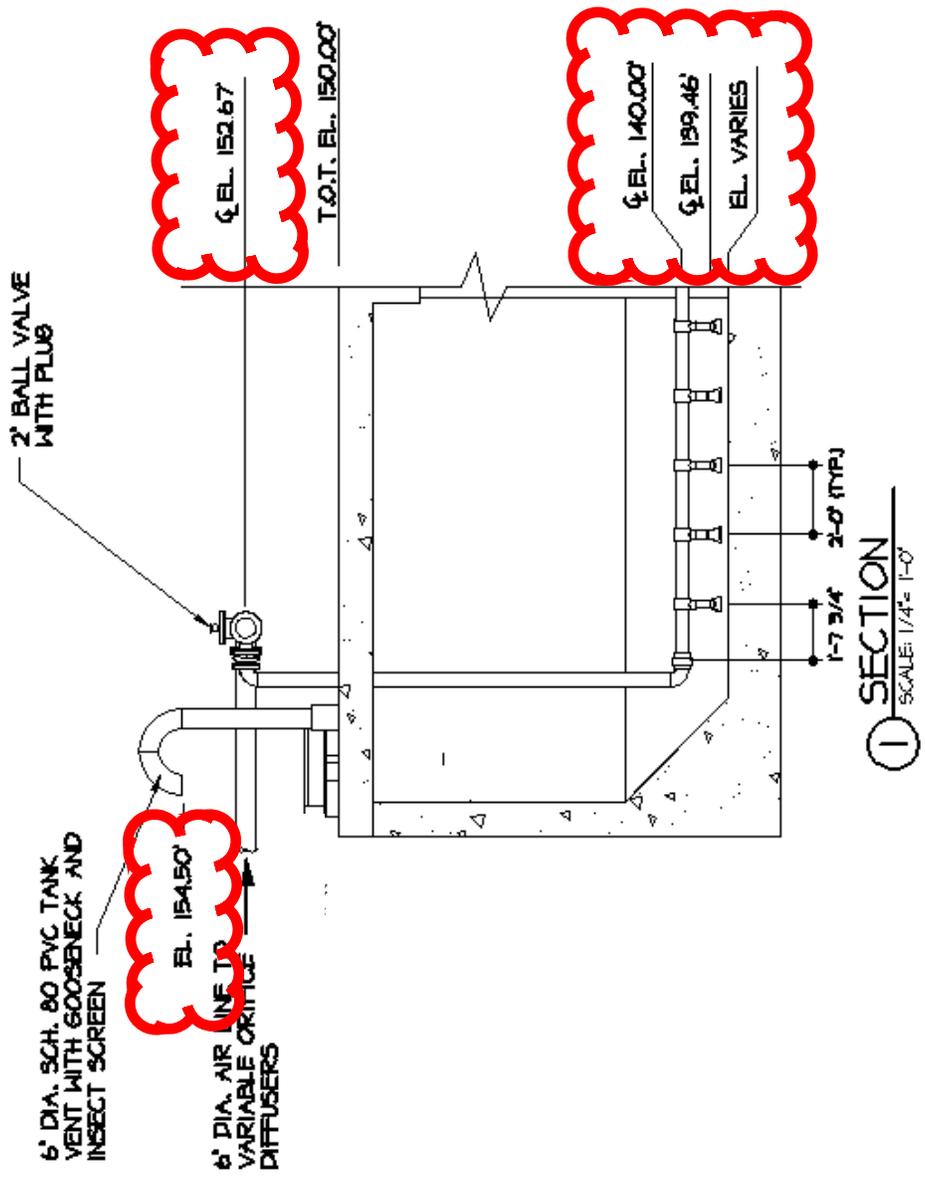


173

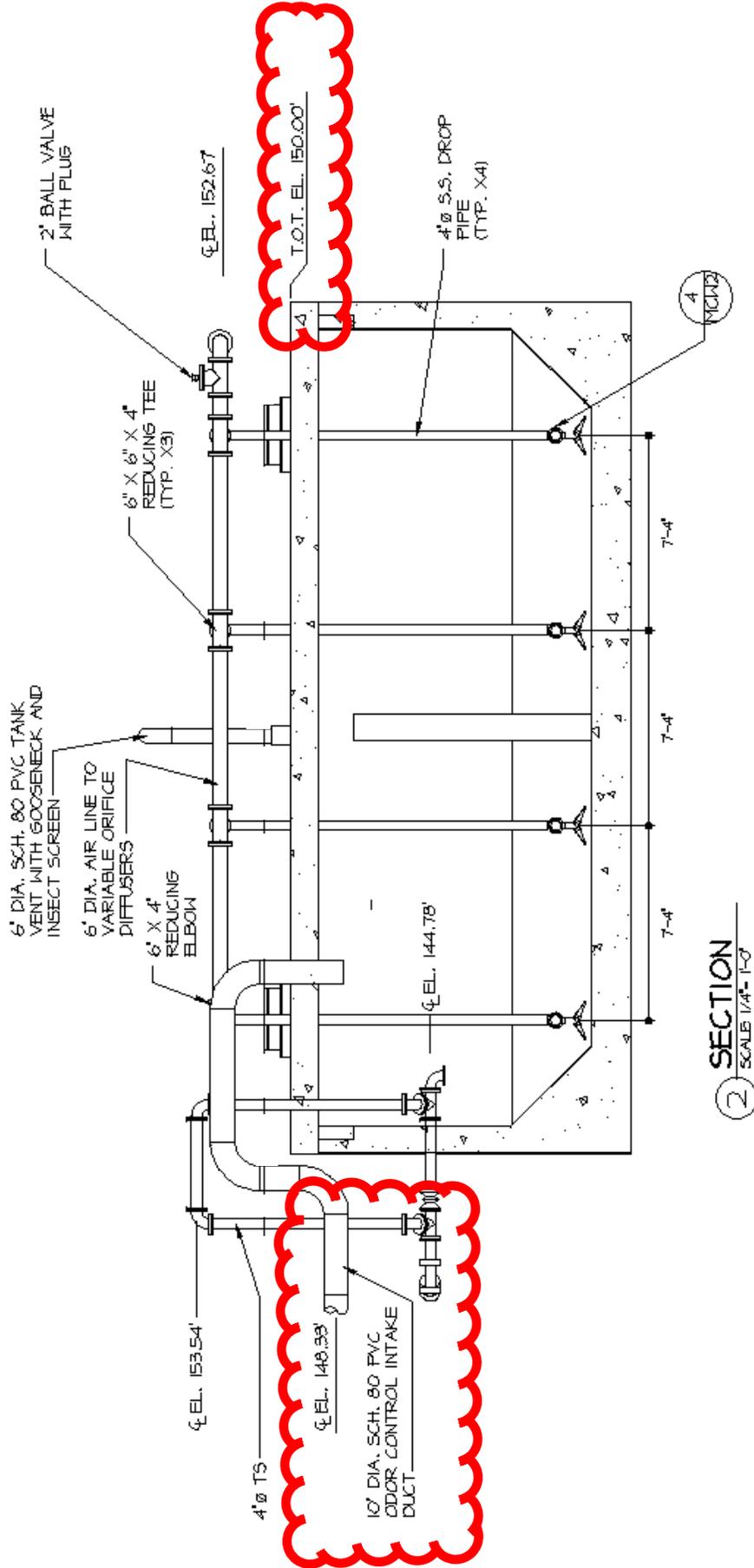
② PRE-EQUALIZATION TANK #2 CONVERSION
SCALE: 1" = 5'-0"

SUFF 0503

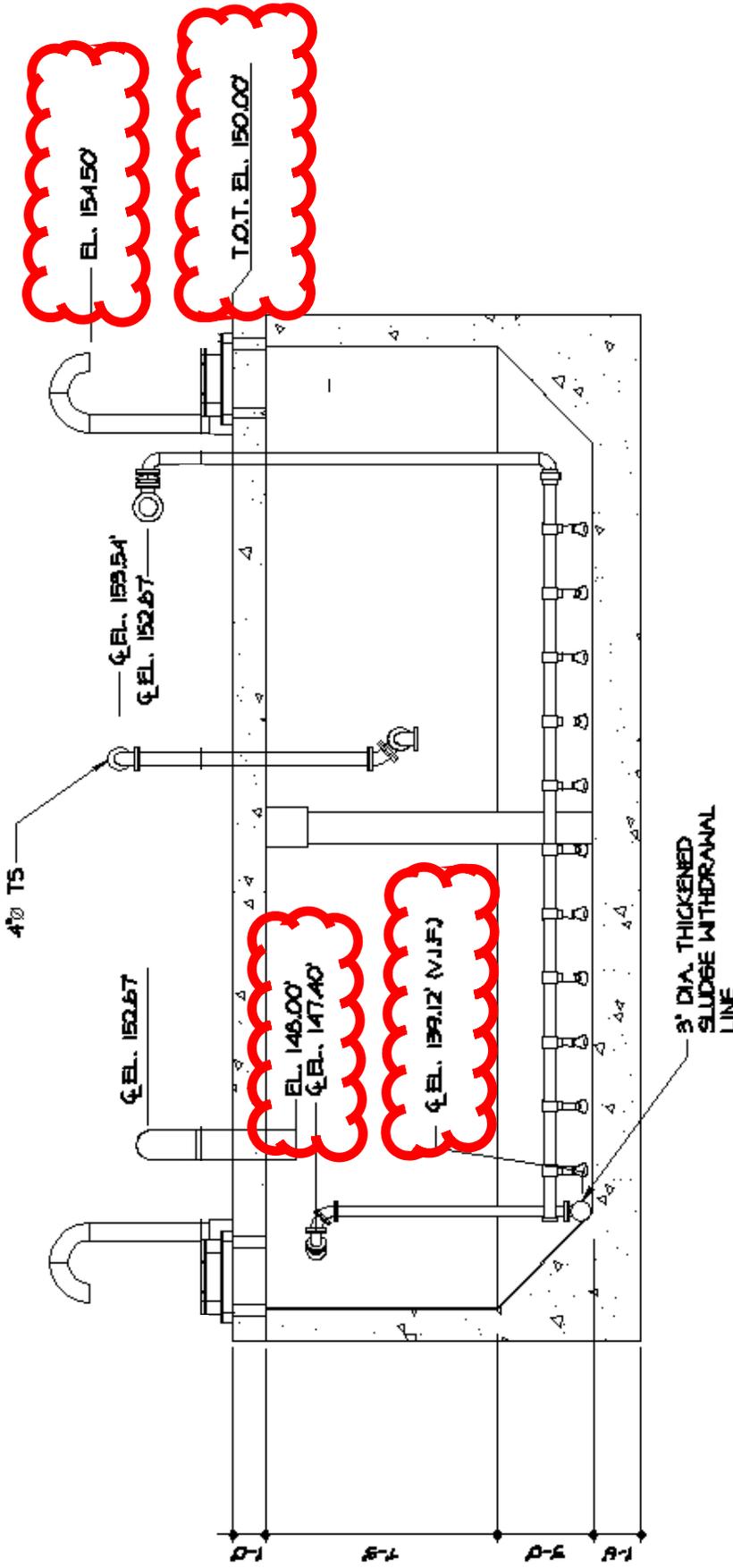
ADDENDUM #2 - ITEM P
SHEET MCW1 - SKETCH # 6



SUFF 0503
ADDENDUM #2 - ITEM Q
SHEET MCW2 - SKETCH # 7



SUFF 0503
ADDENDUM #2 - ITEM Q
SHEET MCW2 - SKETCH # 8

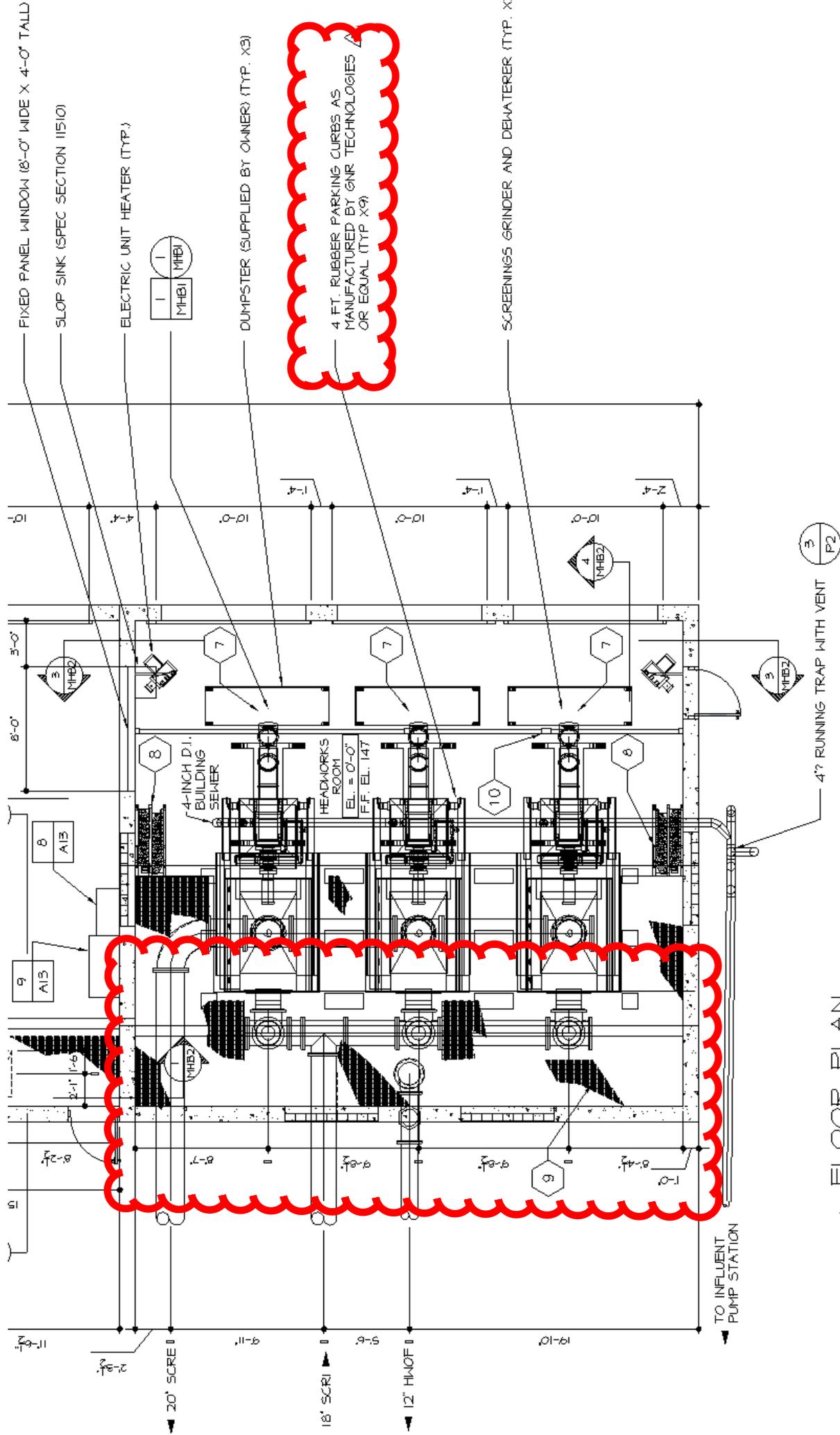


SECTION
SCALE 1/4" = 1'-0"

NOTE:

1. PROVIDE ALL STAINLESS STEEL PIPING WITHIN TANK BELOW EL. 151.0, EXCEPT FOR ODOR CONTROL INTAKE.

SUFF 0503
 ADDENDUM #2 - ITEM Q
 SHEET MCW2 - SKETCH # 9

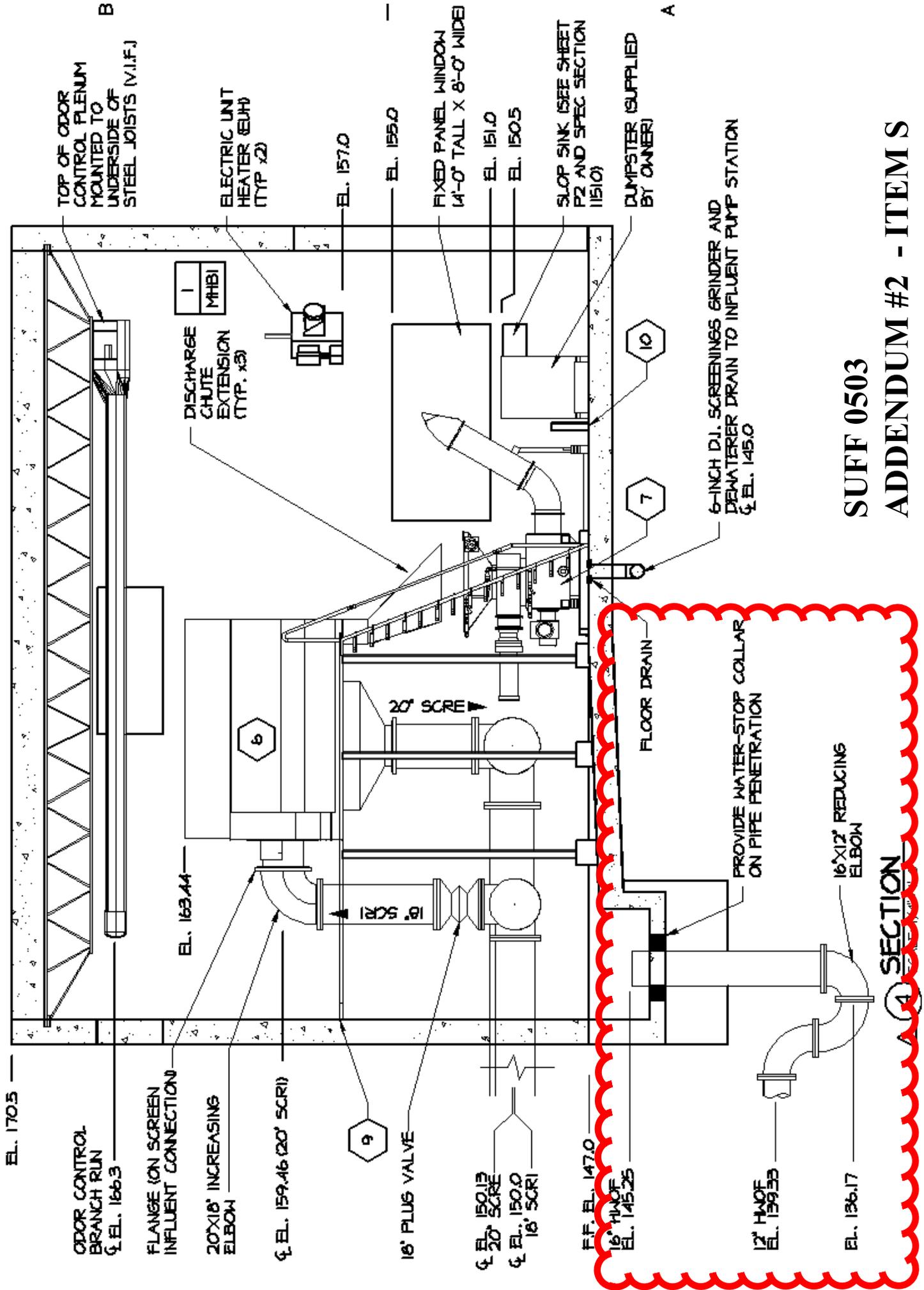


SUFF 0503
ADDENDUM #2 - ITEM R
SHEET MHB1 - SKETCH # 10

△ FLOOR PLAN
 SCALE 3/16"=1'-0"

4 FT. RUBBER PARKING CURBS AS MANUFACTURED BY GNR TECHNOLOGIES OR EQUAL (TYP X9)

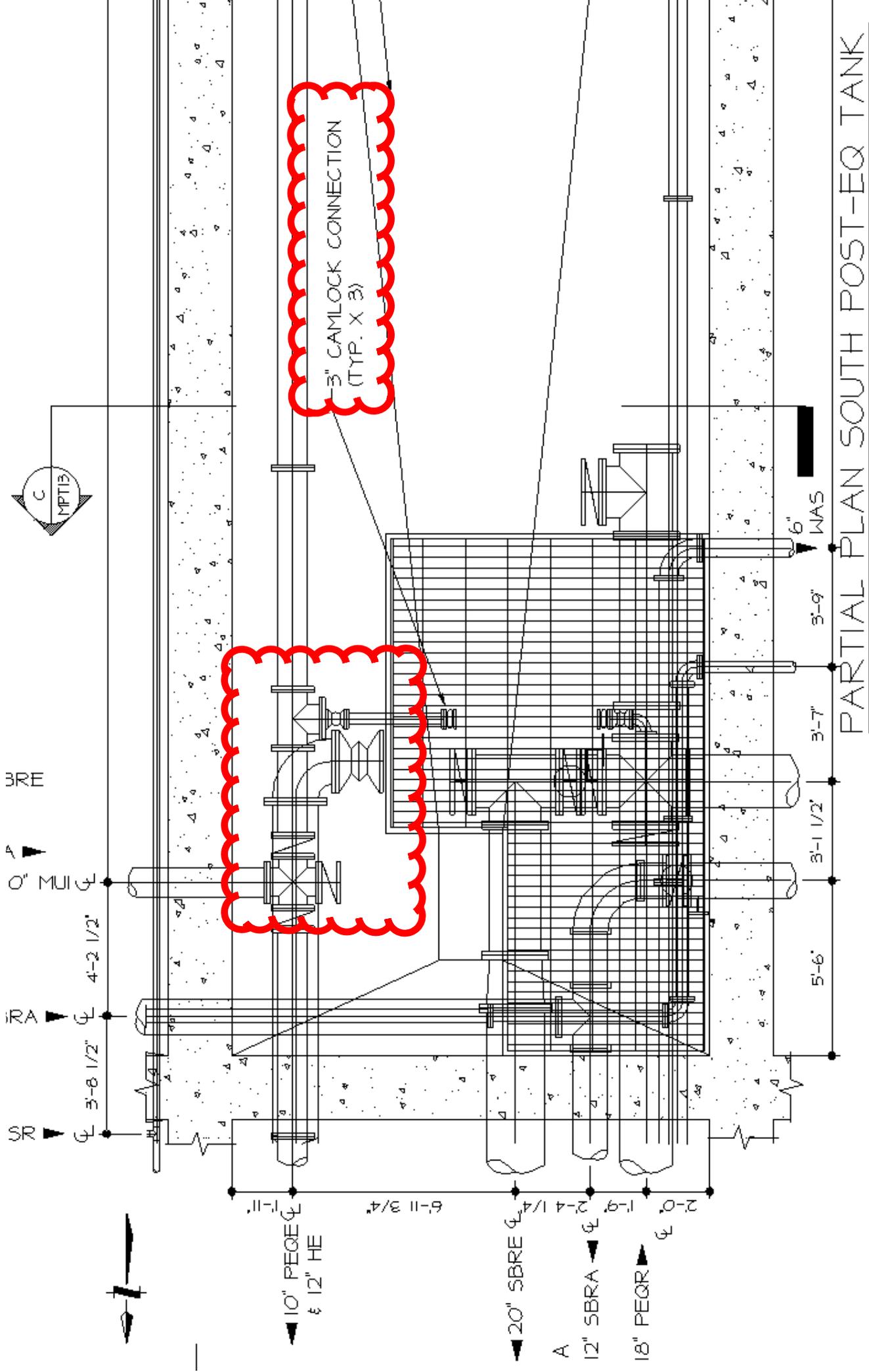
TO INFLUENT PUMP STATION



SUFF 0503

ADDENDUM #2 - ITEMS

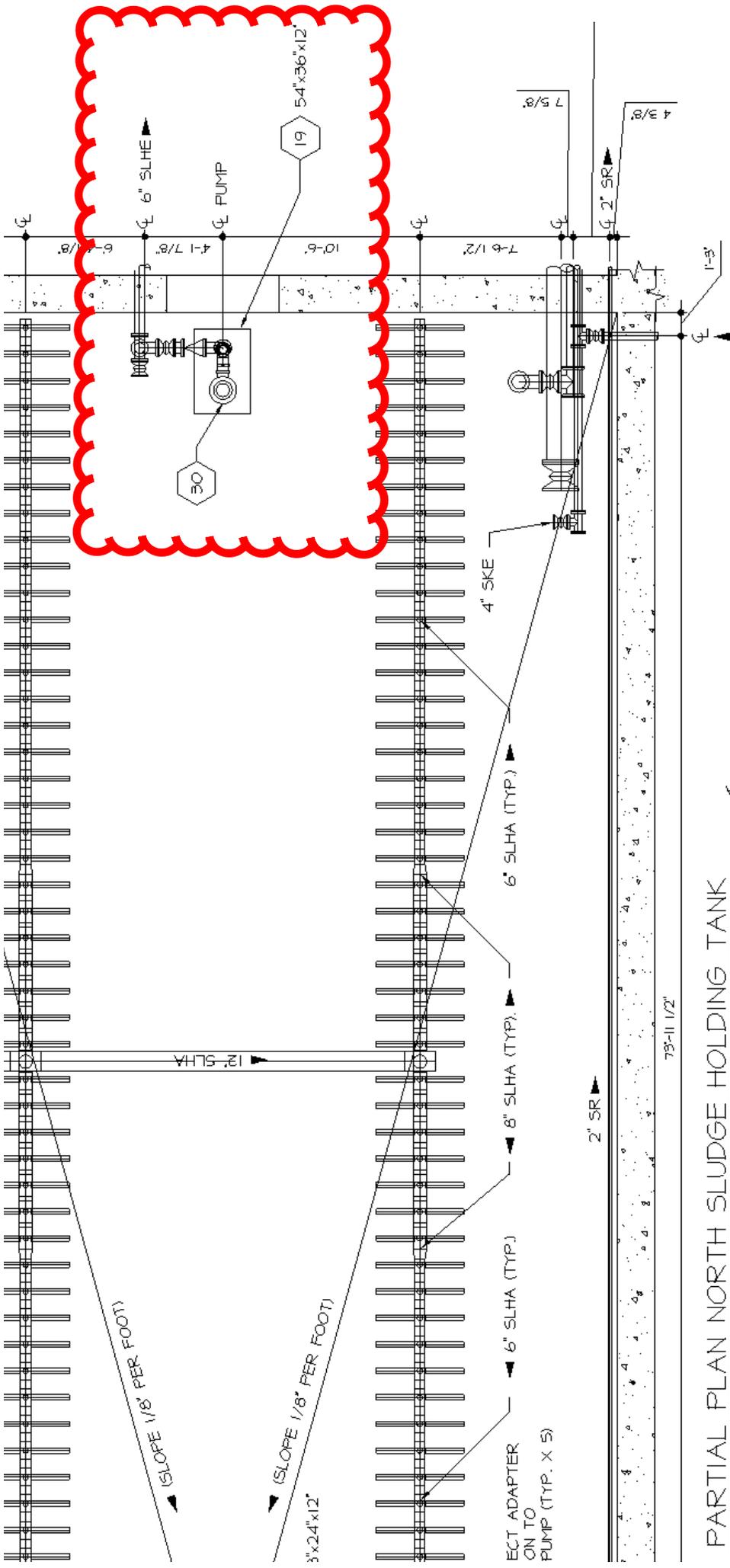
SHEET MHB2 - SKETCH # 10A



3" CAMLOCK CONNECTION
(TYP. X 3)

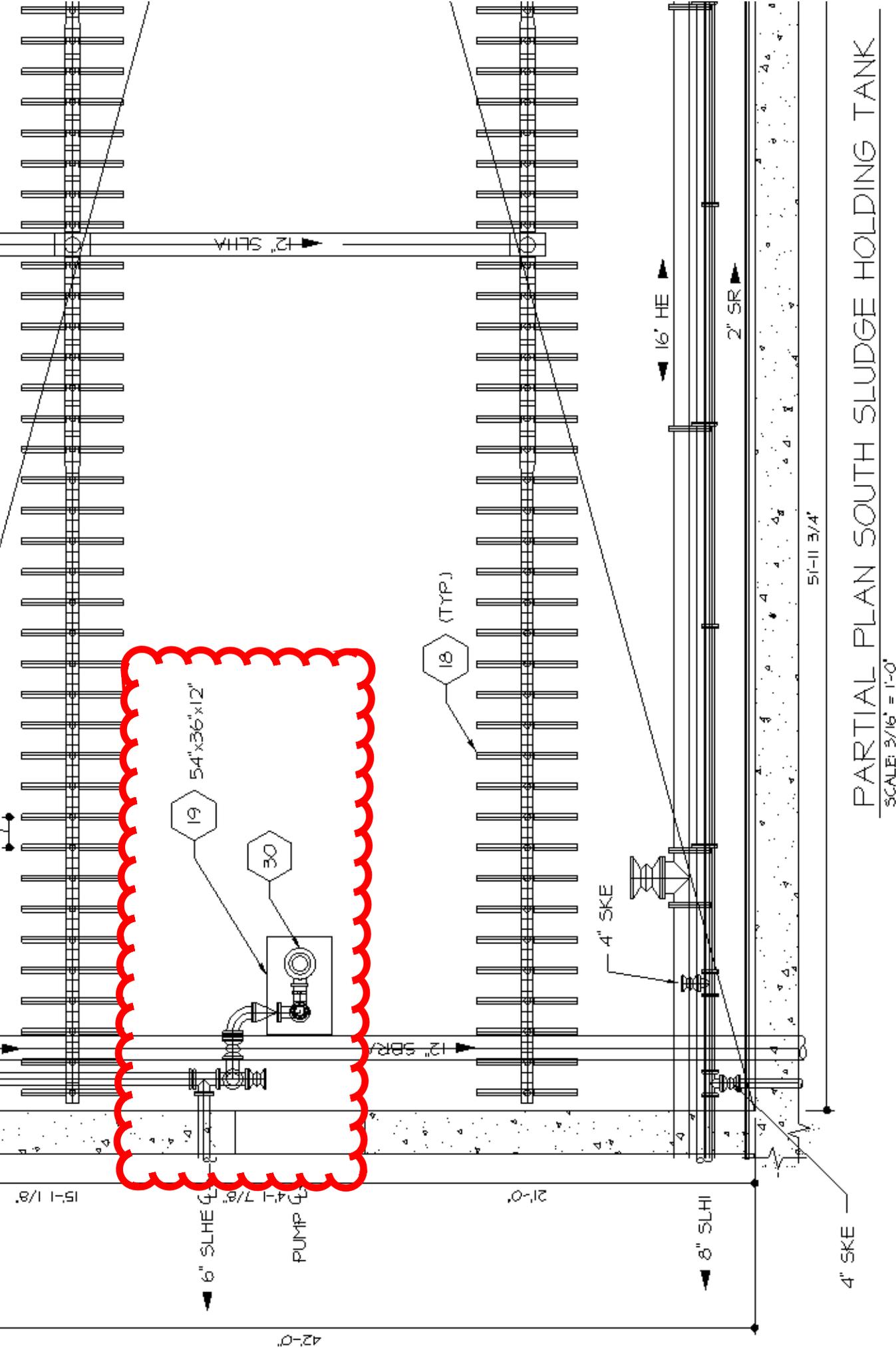
PARTIAL PLAN SOUTH POST-EQ TANK

SUFF 0503
ADDENDUM #2 - ITEM T
SHEET MPT7 - SKETCH # 11



PARTIAL PLAN NORTH SLUDGE HOLDING TANK

SUFF 0503
ADDENDUM #2 - ITEM U
SHEET MPT8 - SKETCH # 12



SUFF 0503

ADDENDUM #2 - ITEM U

SHEET MPT8 - SKETCH # 13

EL. 175.83

EL. 164.0

18" FE
CL. EL. 154.61

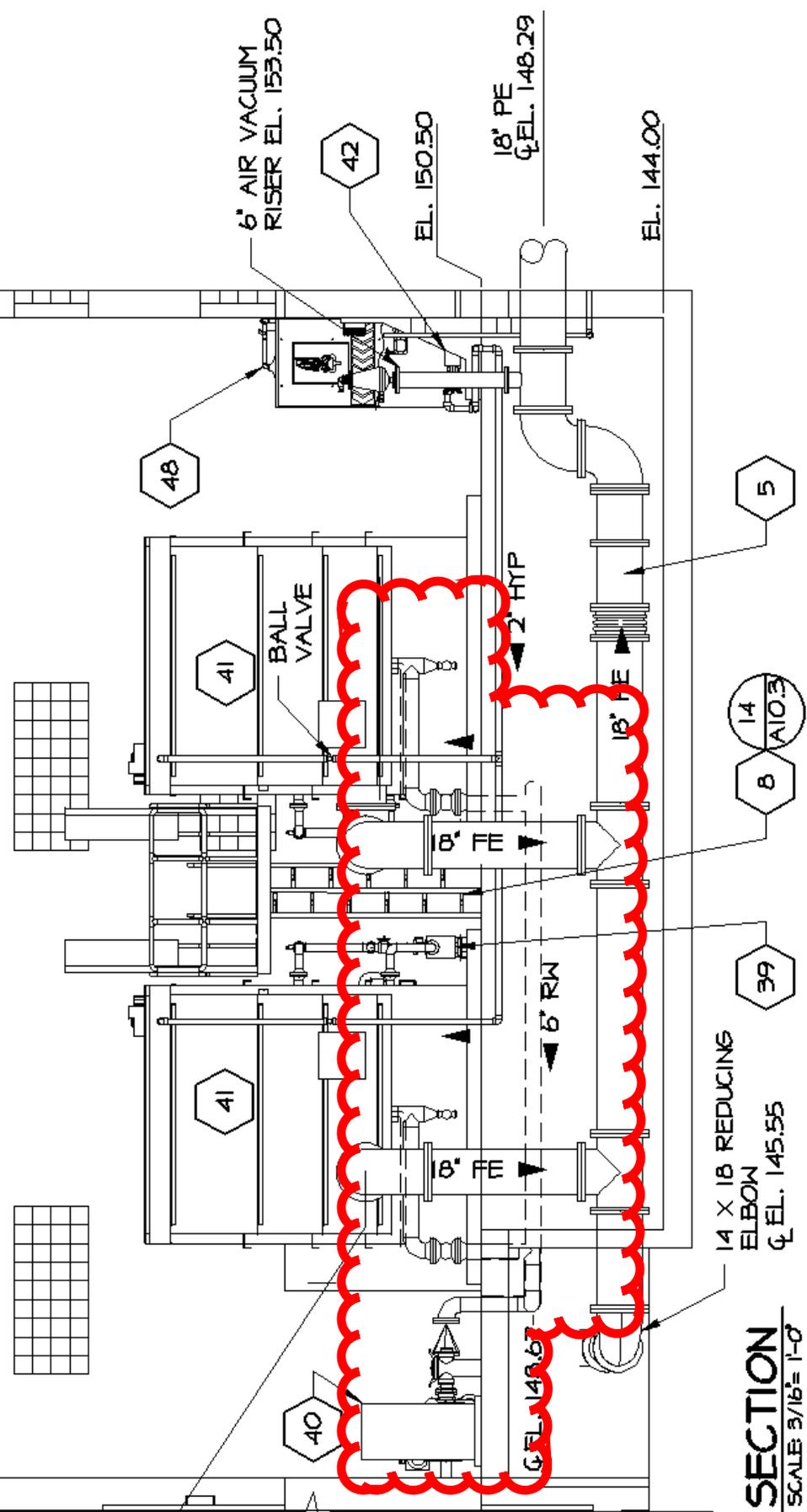
8" SBRA
CL. EL. 151.55

EL. 150.5

4" TS
CL. EL. 148.38

12" SBRA
CL. EL. 148.00

EL. 146.50

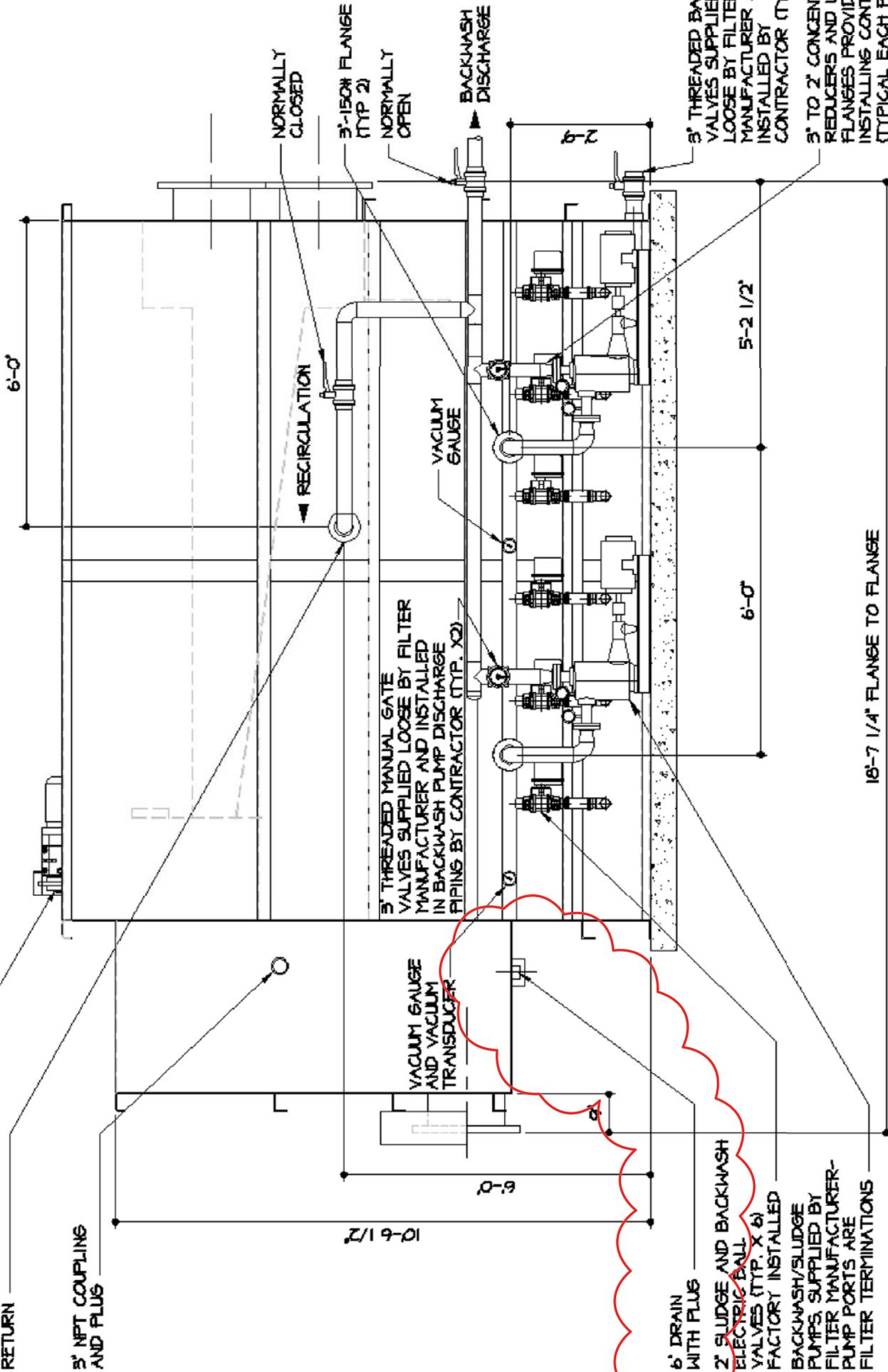


SUFF 0503
ADDENDUM #2 - ITEM V
SHEET MOB3 - SKETCH # 14

2' WASTEWATER LINE FOR
RECIRCULATION
RETURN

3' NPT COUPLING
AND PLUS

B



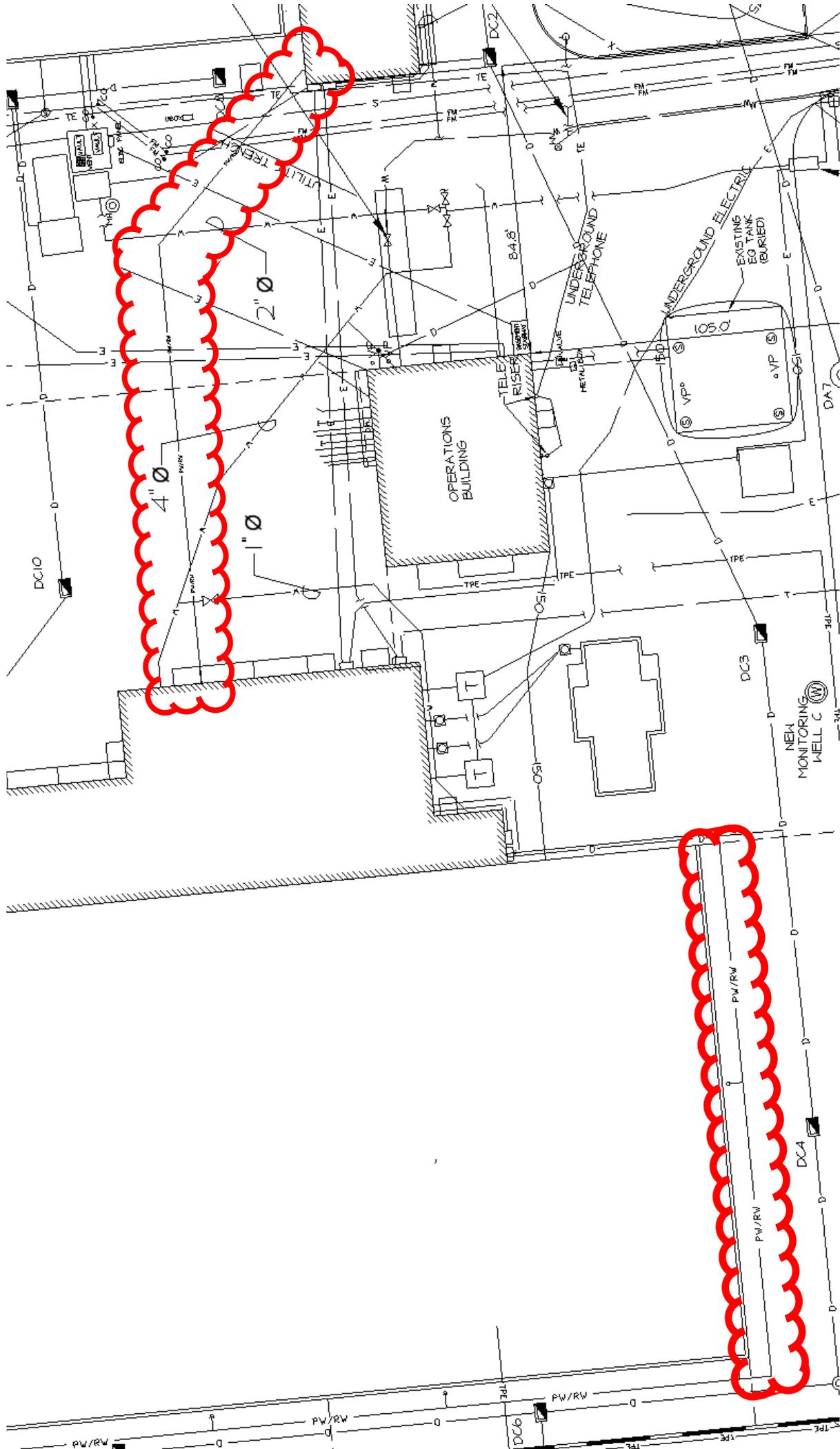
SECTION
A
N.T.S.

SUFF 0503

ADDENDUM #2 - ITEM W

SHEET MD11 - SKETCH # 15

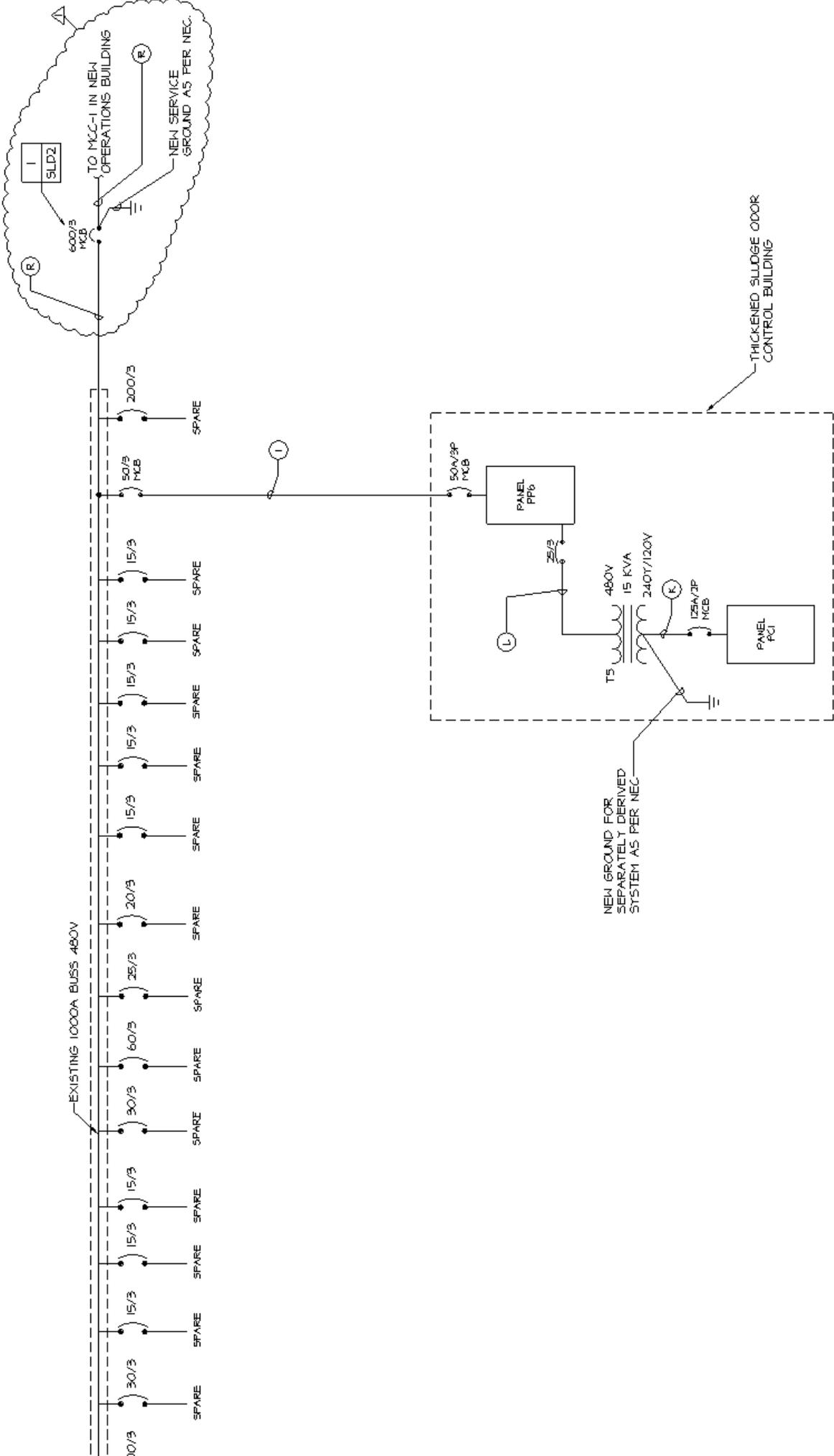
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SUFF 0503

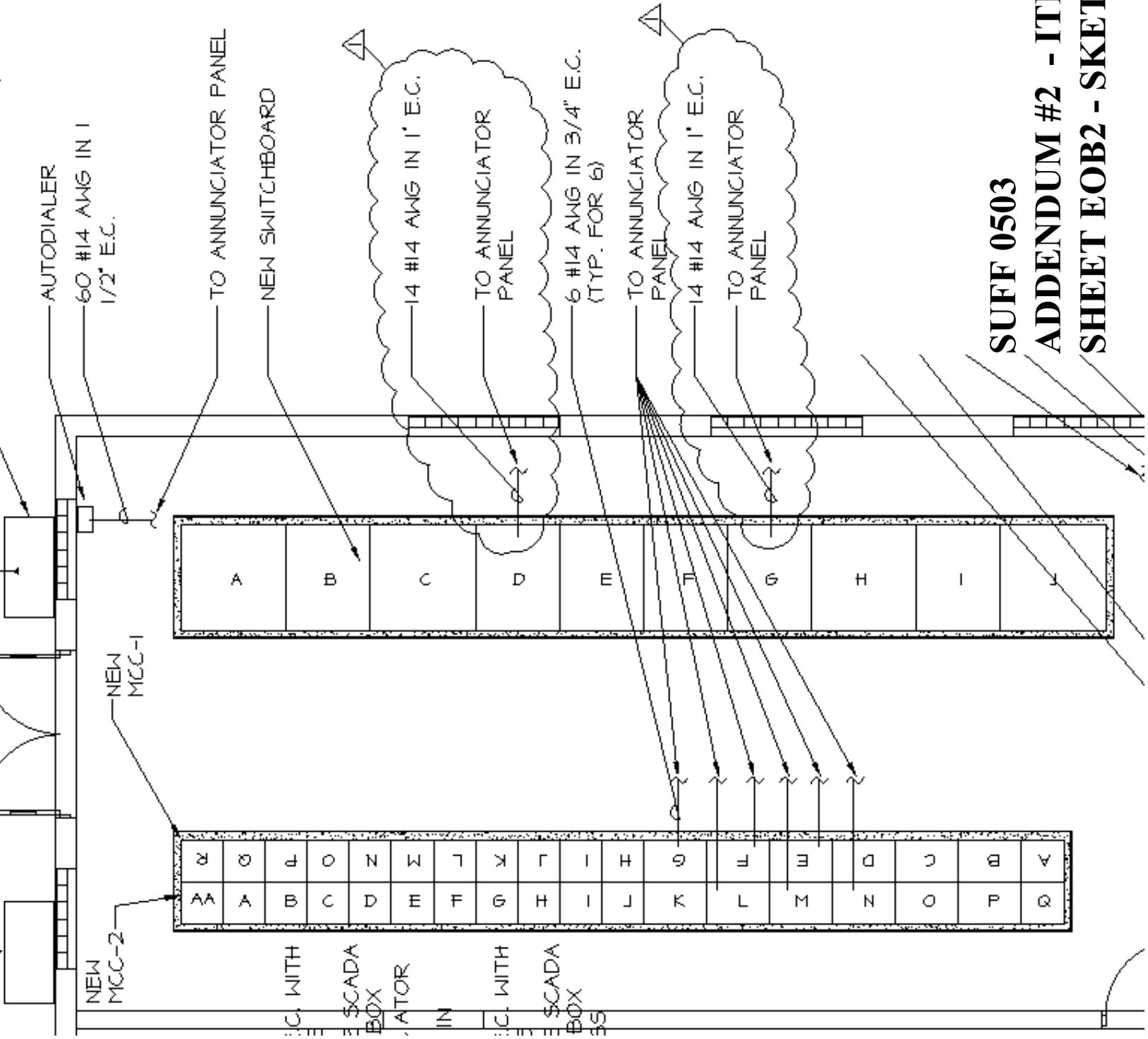
ADDENDUM #2 - ITEM Z

SHEET P4 - SKETCH # 17



MODIFIED EXISTING SINGLE LINE DIAGRAM

SUFF 0503
ADDENDUM #2 - ITEM AA
SHEET SLD2 - SKETCH # 18



AUTODIALER

60 #14 AWG IN 1
1/2" E.C.

TO ANNUNCIATOR PANEL

NEW SWITCHBOARD

14 #14 AWG IN 1" E.C.

TO ANNUNCIATOR
PANEL

6 #14 AWG IN 3/4" E.C.
(TYP. FOR 6)

TO ANNUNCIATOR
PANEL

14 #14 AWG IN 1" E.C.

TO ANNUNCIATOR
PANEL

NEW
MCC-1

NEW
MCC-2

A

B

C

D

E

F

G

H

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J

R

Q

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...C. WITH
SCADA
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IN
...C. WITH
SCADA
BOX
SS

SUFF 0503

ADDENDUM #2 - ITEM GG6

SHEET EOB2 - SKETCH # 19

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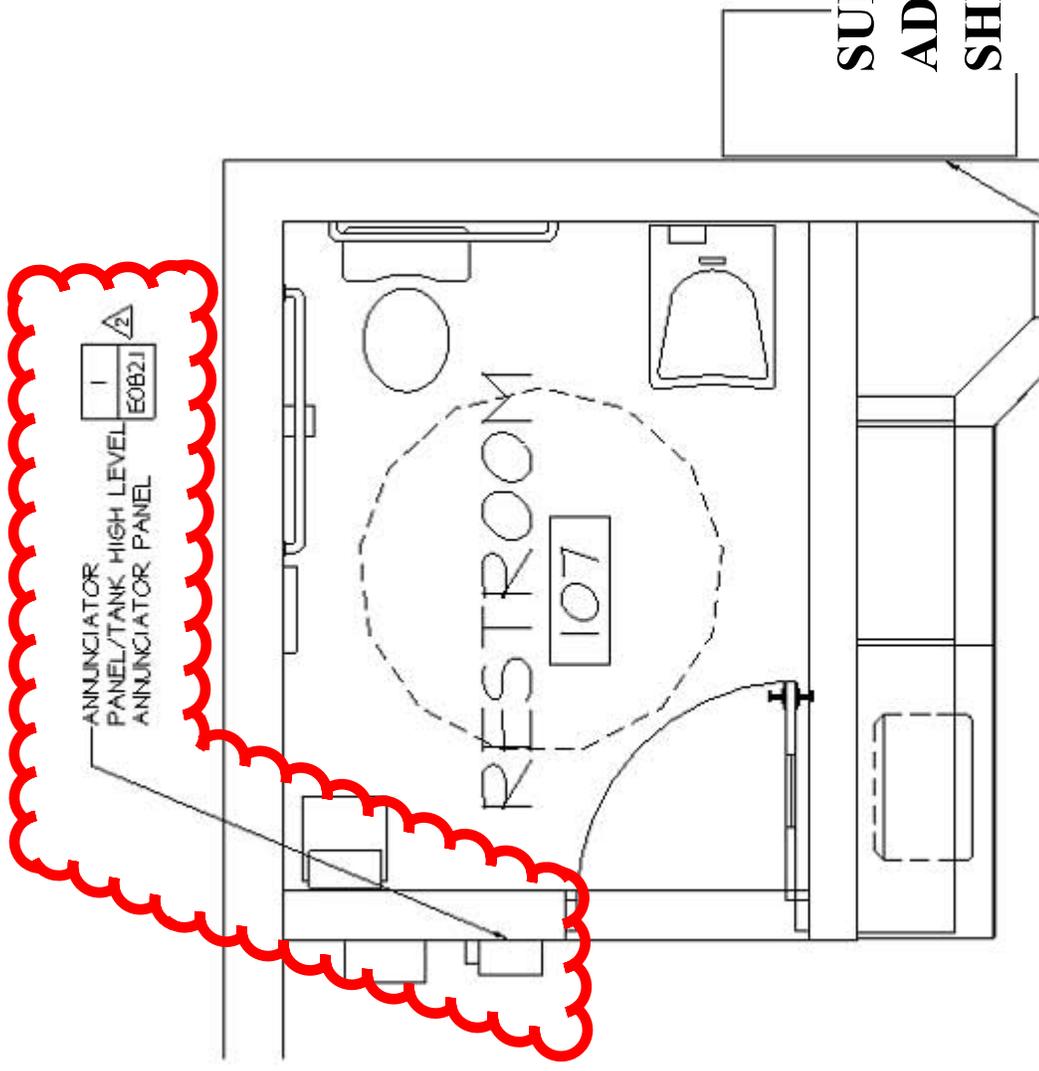
C

CONTROL ROOM ENLARGED CONTROL PLAN

SCALE: 1/2"=1'-0"

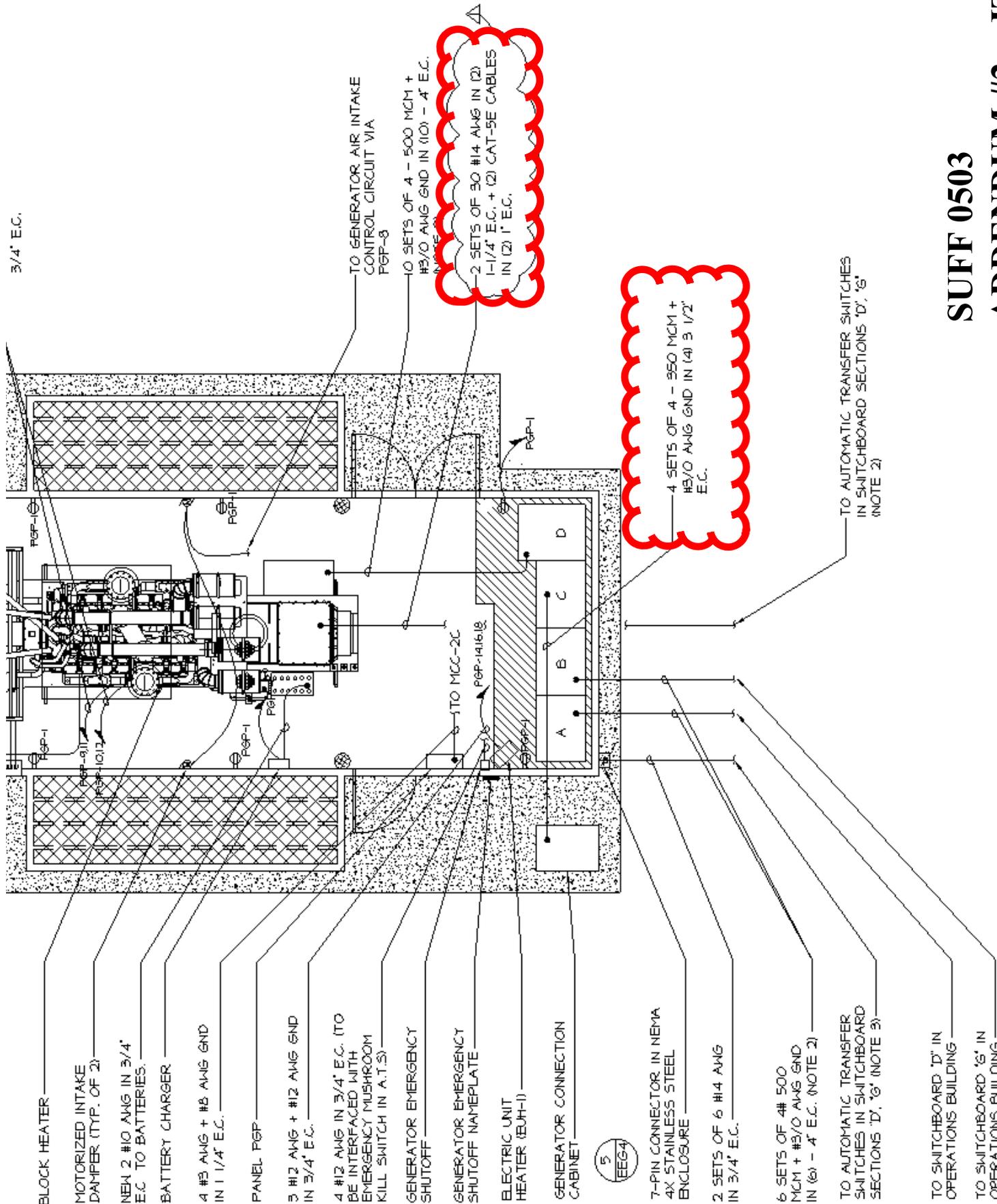
NOTE:

- 1. TANK HIGH LEVEL ANNUNCIATOR PANEL TO BE MOUNTED BELOW THE ANNUNCIATOR PANEL. PROVIDE 84 #14 AWG IN 2-INCH DIAMETER ELECTRICAL CONDUIT BETWEEN TWO PANELS.



SUFF 0503

**ADDENDUM #2 - ITEMS HH1 & HH2
SHEET EOB2.1 - SKETCH # 20**

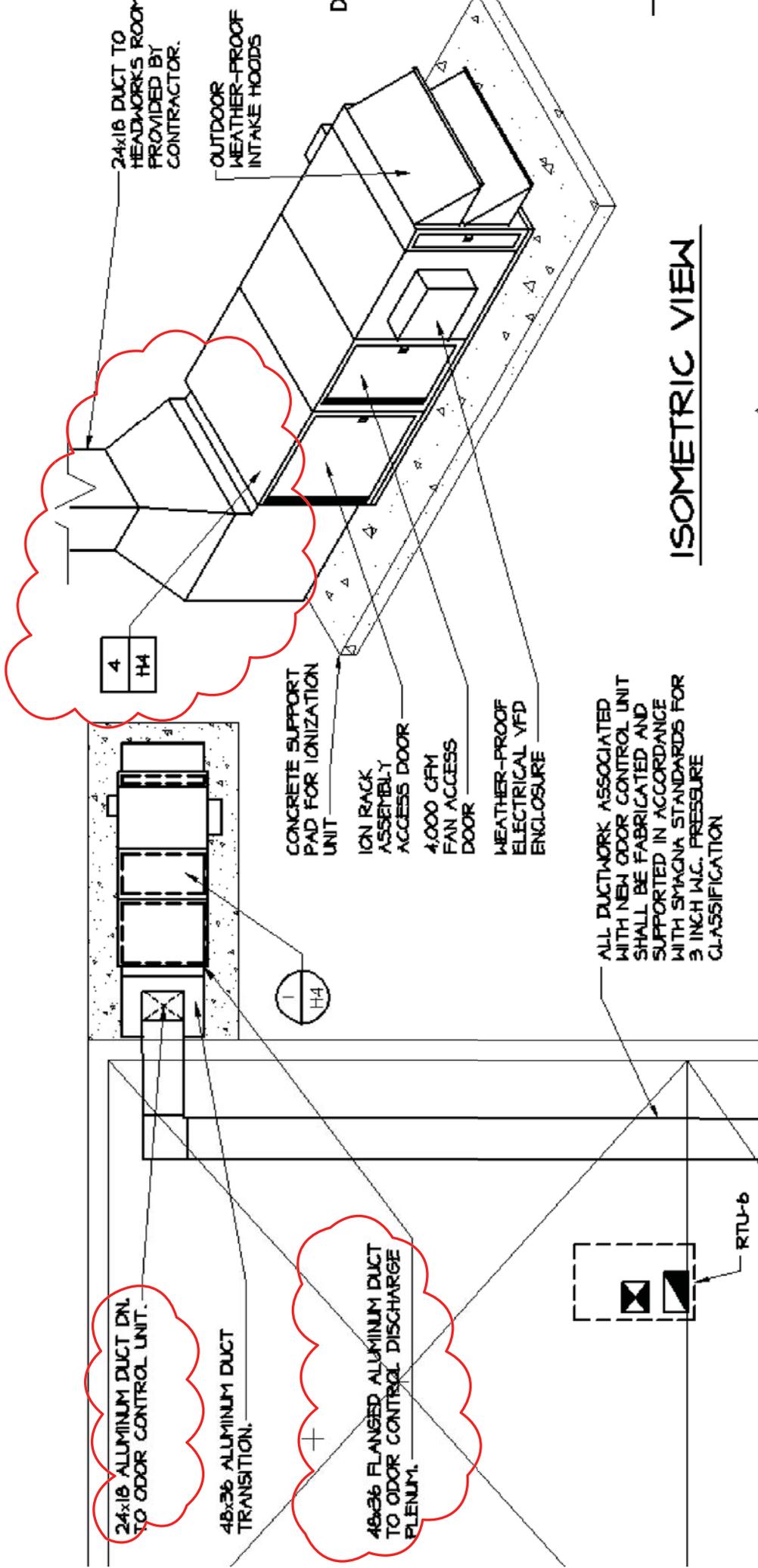


- BLOCK HEATER
- MOTORIZED INTAKE DAMPER (TYP. OF 2)
- NEA 2 #10 AWG IN 3/4" E.C. TO BATTERIES.
- BATTERY CHARGER
- 4 #3 AWG + #8 AWG GND IN 1 1/4" E.C.
- PANEL PGP
- 3 #12 AWG + #12 AWG GND IN 3/4" E.C.
- 4 #12 AWG IN 3/4" E.C. (TO BE INTERFACED WITH EMERGENCY MUSHROOM KILL SWITCH IN A.T.S)
- GENERATOR EMERGENCY SHUTOFF
- GENERATOR EMERGENCY SHUTOFF NAMEPLATE
- ELECTRIC UNIT HEATER (EUI-1)
- GENERATOR CONNECTION CABINET
- 7-PIN CONNECTOR IN NEMA 4X STAINLESS STEEL ENCLOSURE
- 2 SETS OF 6 #14 AWG IN 3/4" E.C.
- 6 SETS OF 4# 500 MCM + #3/0 AWG GND IN (6) - 4" E.C. (NOTE 2)
- TO AUTOMATIC TRANSFER SWITCHES IN SWITCHBOARD SECTIONS 'D', 'S' (NOTE 3)
- TO SWITCHBOARD 'D' IN OPERATIONS BUILDING
- TO SWITCHBOARD 'S' IN OPERATIONS BUILDING

5
EEG4

① GENERATOR ELECTRICAL PLAN
SCALE 1/4" = 1'-0"

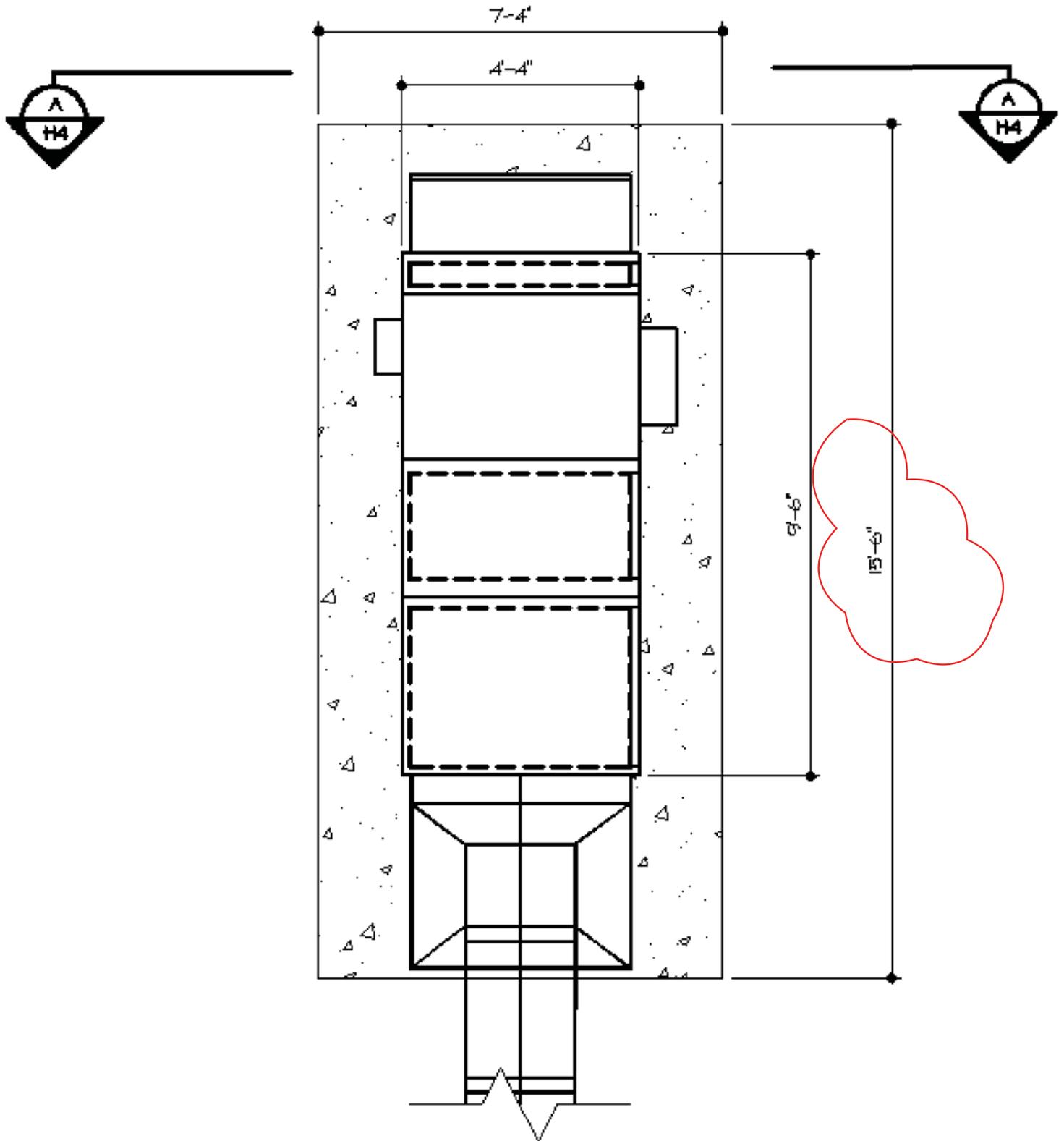
SUFF 0503
ADDENDUM #2 - ITEM LL
SHEET EEG2 - SKETCH # 21



ISOMETRIC VIEW

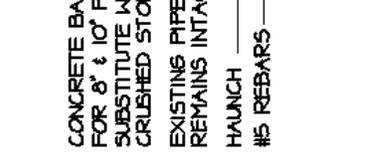
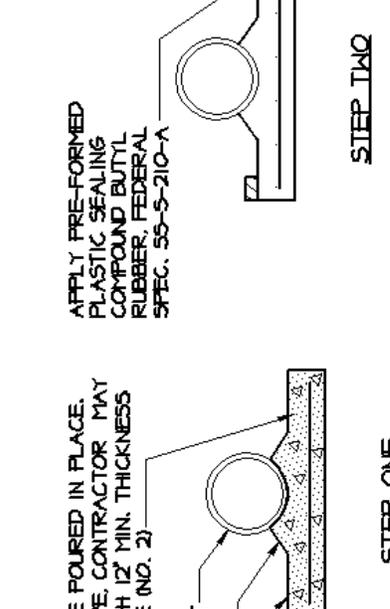
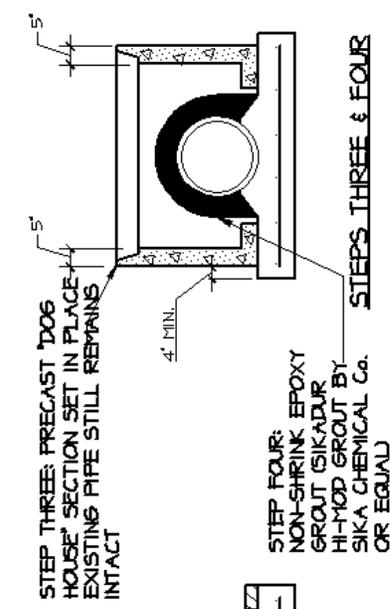
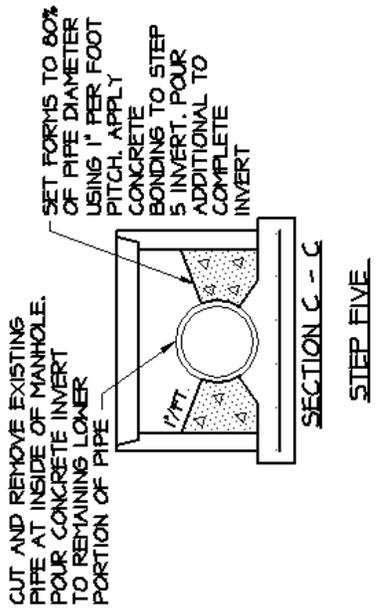
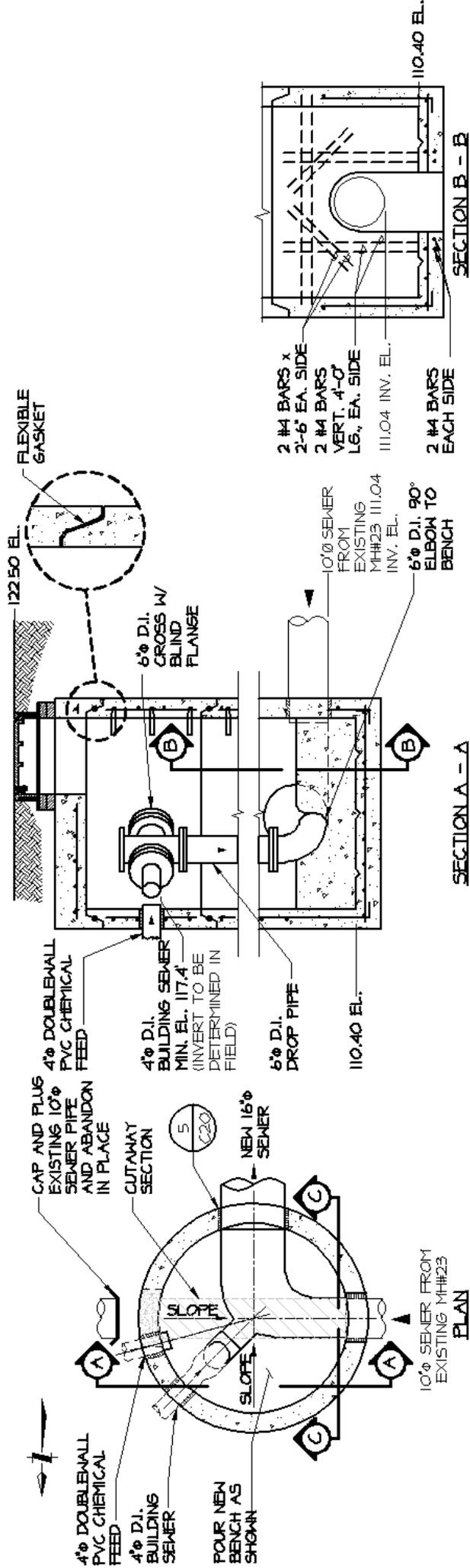
SUFF 0503
 ADDENDUM #2 - ITEM NN
 SHEET H4 - SKETCH # 22

SECTION A-A



① HEADWORKS ODOR CONTROL UNIT
SCALE: 3/8"=1'-0"

SUFF 0503
ADDENDUM #2 - ITEM NN
SHEET H4 - SKETCH # 23



NOTE:
EXISTING PIPE TO BE SUPPORTED WHILE PREPARING FOR CONCRETE BASE

STEP ONE:
CONCRETE BASE POURED IN PLACE. FOR 8' & 10' PIPE, CONTRACTOR MAY SUBSTITUTE WITH 12' MIN. THICKNESS CRUSHED STONE (NO. 2). EXISTING PIPE REMAINS INTACT. HAUNCH. #5 REBARS.

STEP TWO:
APPLY PRE-FORMED PLASTIC SEALING COMPOUND BUTYL RUBBER, FEDERAL SPEC. 55-5-210-A.

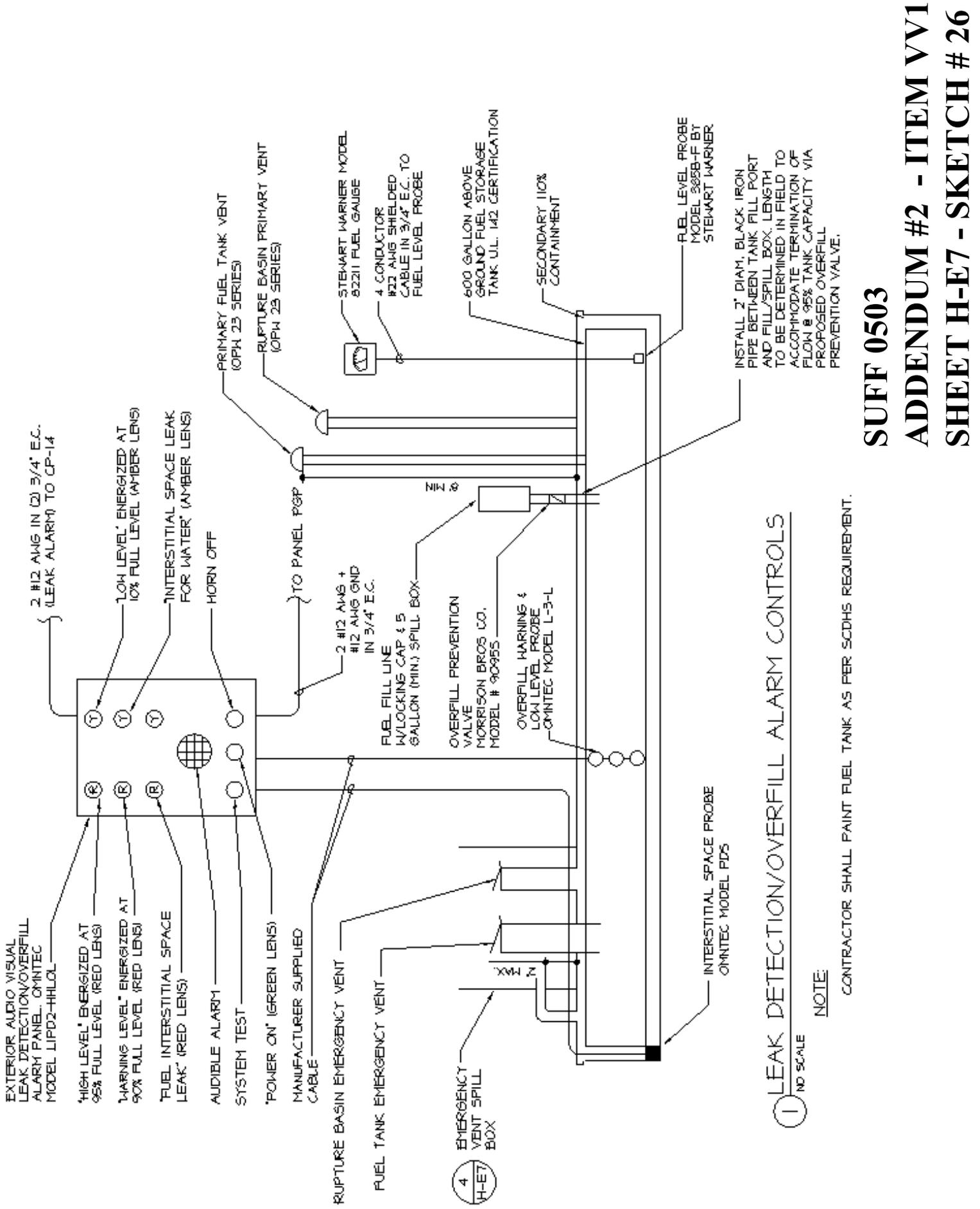
STEP THREE: PRECAST 'DOG HOUSE' SECTION SET IN PLACE. EXISTING PIPE STILL REMAINS INTACT.

STEP FOUR: NON-SHRINK EPOXY GROUT (SIKADUR HI-MOD GROUT BY SIK A CHEMICAL Co. OR EQUAL).

STEP FIVE:
CUT AND REMOVE EXISTING PIPE AT INSIDE OF MANHOLE. POUR CONCRETE INVERT TO REMAINING LOWER PORTION OF PIPE. SET FORMS TO 80% OF PIPE DIAMETER USING 1" PER FOOT PITCH. APPLY CONCRETE BONDING TO STEP 5 INVERT. POUR ADDITIONAL TO COMPLETE INVERT.

SUFF 0503
ADDENDUM #2 - ITEM 001
SHEET H-C5 - SKETCH # 24

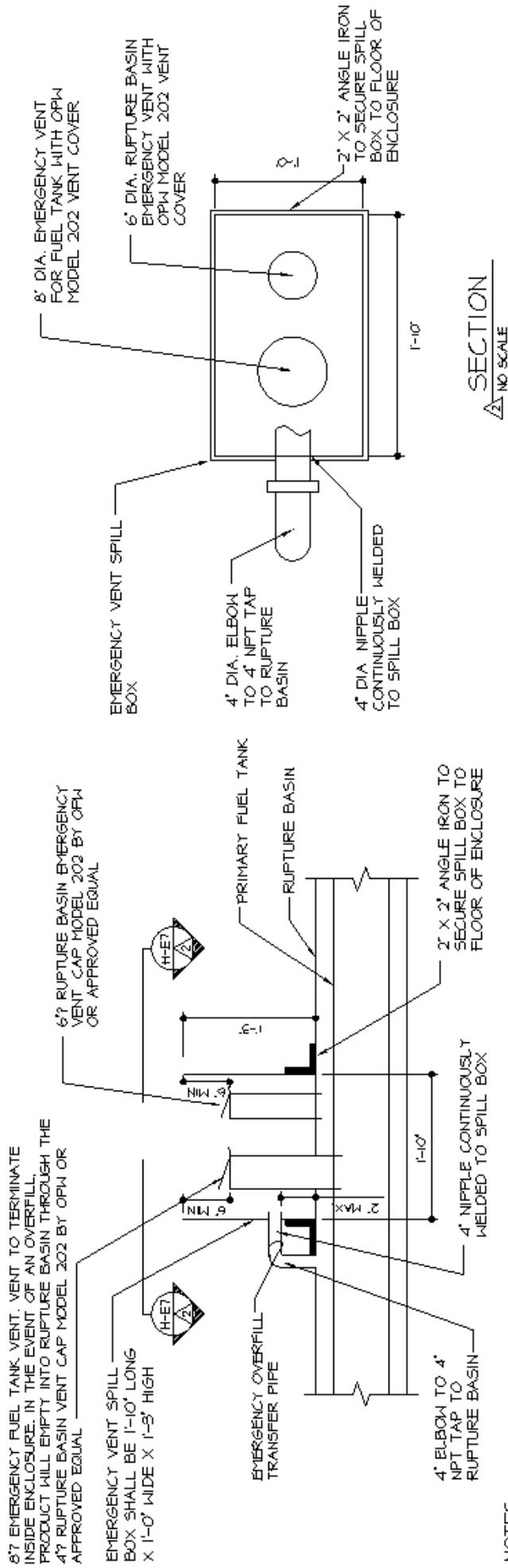
DOG HOUSE MANHOLE DETAIL
NOT TO SCALE



SUFF 0503
ADDENDUM #2 - ITEM VV1
SHEET H-E7 - SKETCH # 26

① LEAK DETECTION/OVERFILL ALARM CONTROLS
 NO SCALE

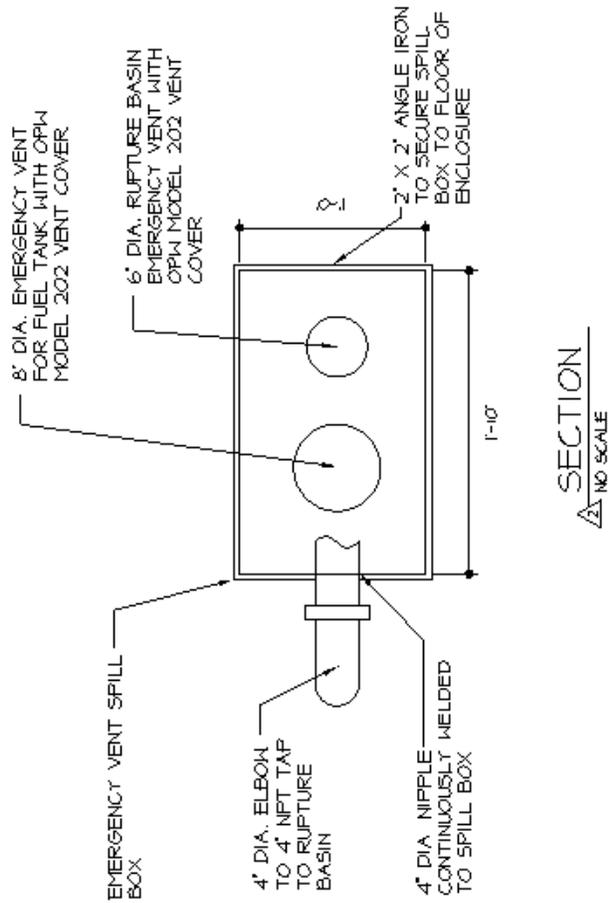
NOTE:
 CONTRACTOR SHALL PAINT FUEL TANK AS PER SCDSHS REQUIREMENT.



NOTES:

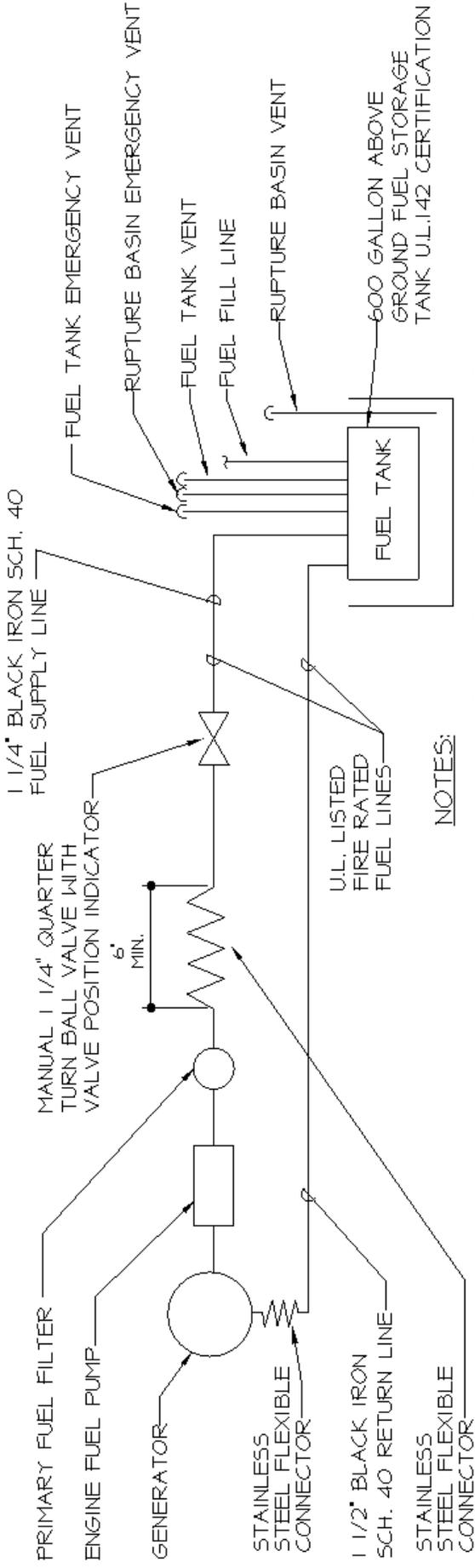
1. TANK SHALL BE CLEARLY LABELED WITH THE PRODUCT NAME STENCILED ON AT LEAST FOUR LOCATIONS, EVENLY SPACED AROUND THE PERIMETER.
2. TANK SHALL BE CLEARLY LABELED WITH THE SCDHS TANK IDENTIFICATION NUMBER.

4 EMERGENCY VENT SPILL BOX DETAIL
NO SCALE



SECTION
NO SCALE

SUFF 0503
ADDENDUM #2 - ITEM VV3
SHEET H-E7 - SKETCH # 27



NOTES:

1. FLEXIBLE CONNECTION FOR FUEL LINES SHALL BE FIRE RATED STAINLESS STEEL HOSEMASTER FIRE SHIELD FLEX CONNECTOR.

6 FUEL SUPPLY SCHEMATIC
NO SCALE

SUFF 0503
ADDENDUM #2 - ITEM VV5
SHEET H-E7 - SKETCH # 28