# 2020
# RIVERS EDGE RENNOVATION
# COUNCIL BLUFFS, IOWA

**OWNER:**

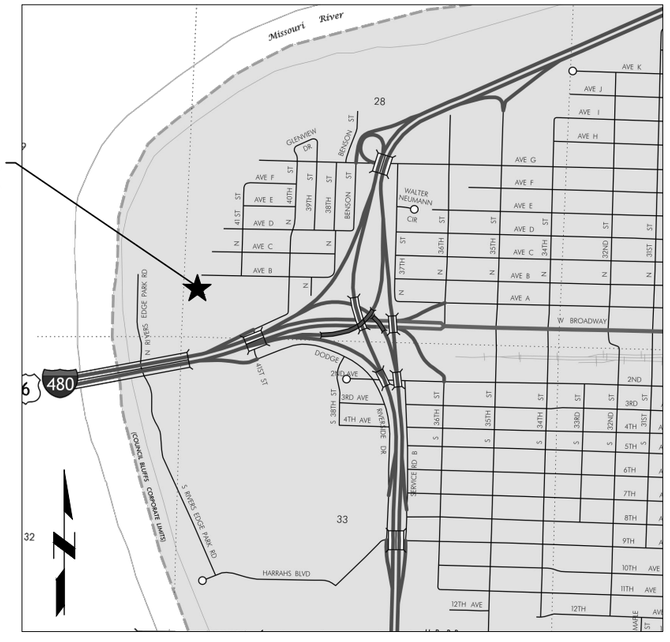
| NAME: | CONTACT INFO: |
|---|---|
| VINCENT MARTORELLO | COMPANY: CITY OF COUNCIL BLUFFS:<br>PARKS AND RECREATION DEPARTMENT<br>PHONE: 712.890.5291<br>EMAIL: VMARTORELLO@COUNCILBLUFFS-IA.GOV |

**ENGINEER:**

| NAME: | CONTACT INFO: |
|---|---|
| ANDREW PENNEKAMP, PE | COMPANY: JEO CONSULTING GROUP INC<br>PHONE: 515.964.5310<br>EMAIL: APENNEKAMP@JEO.COM |

**INDEX OF SHEETS:**


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| C1.12 | SITE FLATWORK AND GRANUAL PLAN |
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| E1.** | |


**LOCATION MAP**

**NOTE:**
NEITHER THE OWNER (CLIENT) NOR JEO CONSULTING GROUP, INC. ASSUMES ANY RESPONSIBILITY FOR UTILITY LOCATIONS BEING ACCURATELY SHOWN OR NOT SHOWN ON THE PLANS. A REQUEST FOR UTILITY LOCATES WAS MADE FOR THIS LOCATION AS PER THE ONE-CALL NOTIFICATION SYSTEM ACT.
(DATE: OC DATE TICKET NO.: TICKET NO ).

UTILITIES SHOWN ARE FROM FIELD MARKINGS PROVIDED IN THE FIELD BY THE UTILITY PROVIDERS.

THE EXACT LOCATION AND/OR SIZE OF UNDERGROUND FEATURES MAY NOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. FIELD VERIFICATION OF UTILITIES MAY BE REQUIRED. CONTRACTOR(S) SHALL NOTIFY THE RESPECTIVE UTILITY COMPANIES BEFORE COMMENCING ANY WORK.

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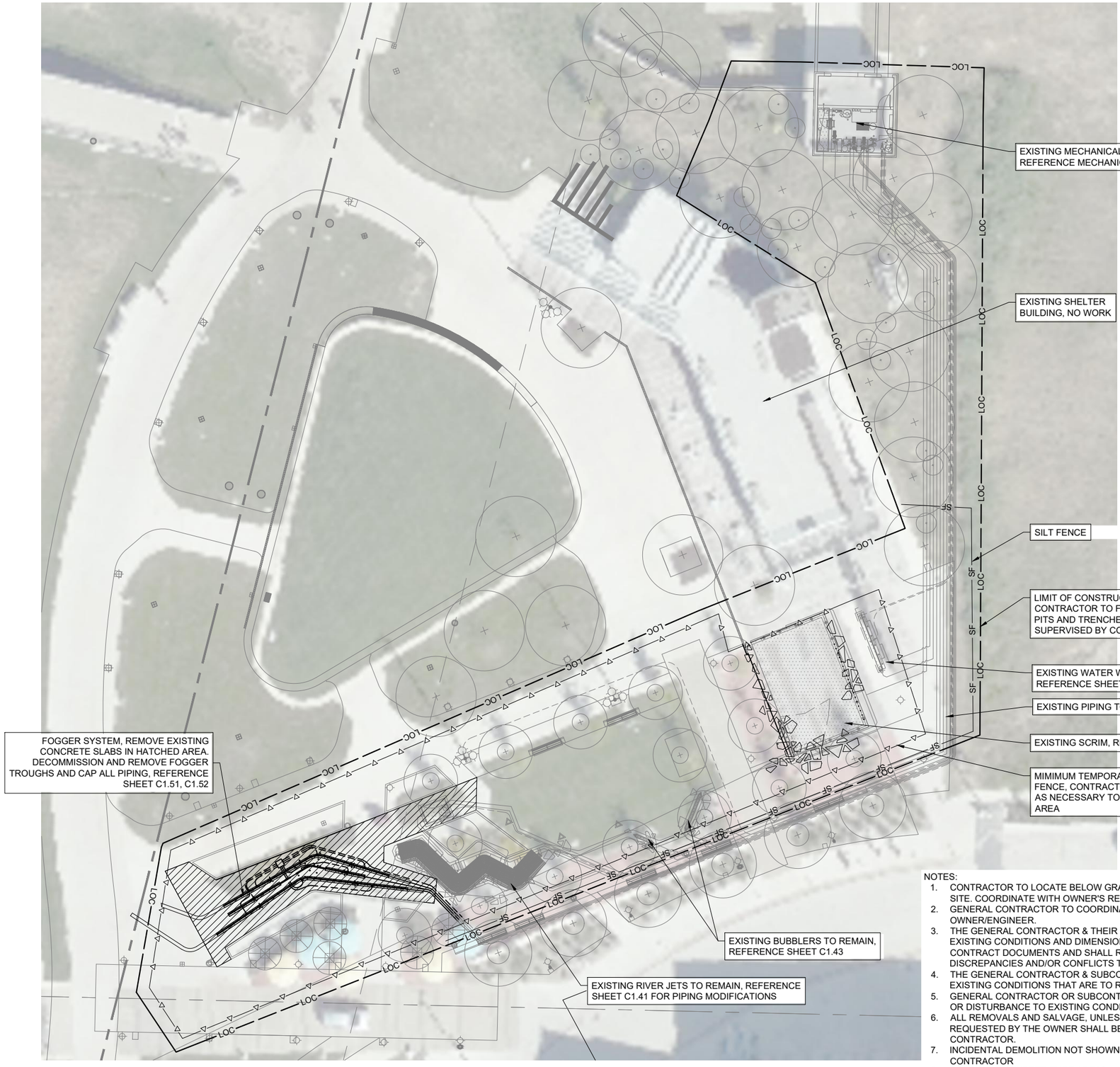
COVER SHEET

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## 1 EXISTING SITE AND DEMOLITION PLAN

SCALE: 1/16" = 1'-0"

NOTES:

1. CONTRACTOR TO LOCATE BELOW GRADE ELECTRIC AND WATER WITHIN SITE. COORDINATE WITH OWNER'S REPRESENTATIVE.
2. GENERAL CONTRACTOR TO COORDINATE SCHEDULING ALL WORK WITH OWNER/ENGINEER.
3. THE GENERAL CONTRACTOR & THEIR SUBCONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS WITH CONDITIONS SHOWN IN THE CONTRACT DOCUMENTS AND SHALL REPORT ANY DEVIATIONS, DISCREPANCIES AND/OR CONFLICTS TO ENGINEER.
4. THE GENERAL CONTRACTOR & SUBCONTRACTOR SHALL PROTECT ANY EXISTING CONDITIONS THAT ARE TO REMAIN.
5. GENERAL CONTRACTOR OR SUBCONTRACTOR SHALL REPAIR ANY DAMAGE OR DISTURBANCE TO EXISTING CONDITIONS AT NO COST TO THE OWNER.
6. ALL REMOVALS AND SALVAGE, UNLESS SPECIFICALLY NOTED OR REQUESTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
7. INCIDENTAL DEMOLITION NOT SHOWN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
8. SEED ALL DISTURBED TURF AREAS.
9. MINIMUM SILT FENCE SHOWN, PROVIDE ADDITIONAL EROSION CONTROL AS NECESSARY. PROTECT AREA INLETS WITHIN LIMIT OF CONSTRUCTION, REFERENCE EROSION CONTROL DETAIL SHEET C1.13

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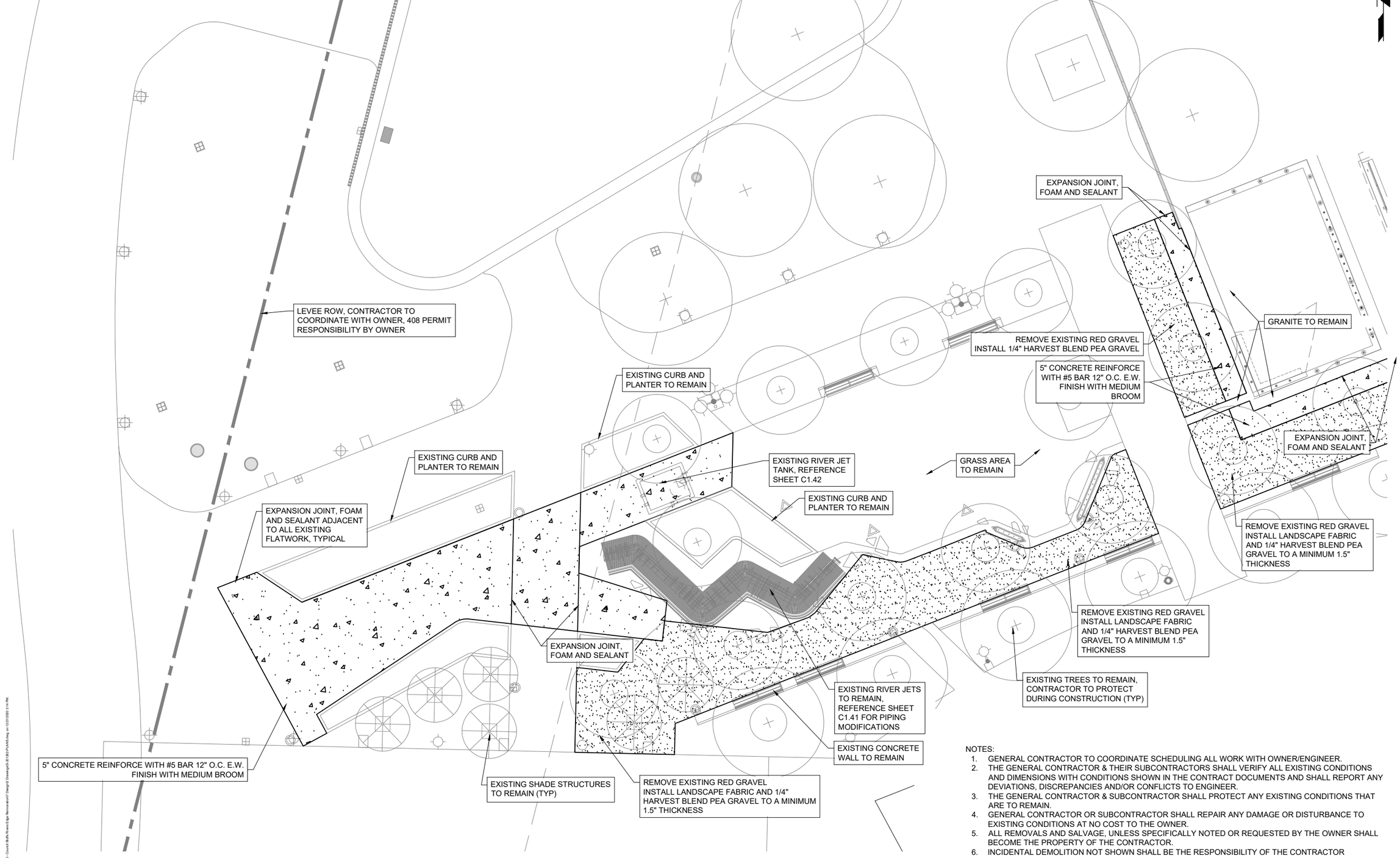
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1 **FLATWORK AND GRANULAR SITE PLAN**
SCALE: 1" = 100'

NOTES:
1. GENERAL CONTRACTOR TO COORDINATE SCHEDULING ALL WORK WITH OWNER/ENGINEER.
2. THE GENERAL CONTRACTOR & THEIR SUBCONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS WITH CONDITIONS SHOWN IN THE CONTRACT DOCUMENTS AND SHALL REPORT ANY DEVIATIONS, DISCREPANCIES AND/OR CONFLICTS TO ENGINEER.
3. THE GENERAL CONTRACTOR & SUBCONTRACTOR SHALL PROTECT ANY EXISTING CONDITIONS THAT ARE TO REMAIN.
4. GENERAL CONTRACTOR OR SUBCONTRACTOR SHALL REPAIR ANY DAMAGE OR DISTURBANCE TO EXISTING CONDITIONS AT NO COST TO THE OWNER.
5. ALL REMOVALS AND SALVAGE, UNLESS SPECIFICALLY NOTED OR REQUESTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
6. INCIDENTAL DEMOLITION NOT SHOWN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
7. SEED ALL DISTURBED TURF AREAS.

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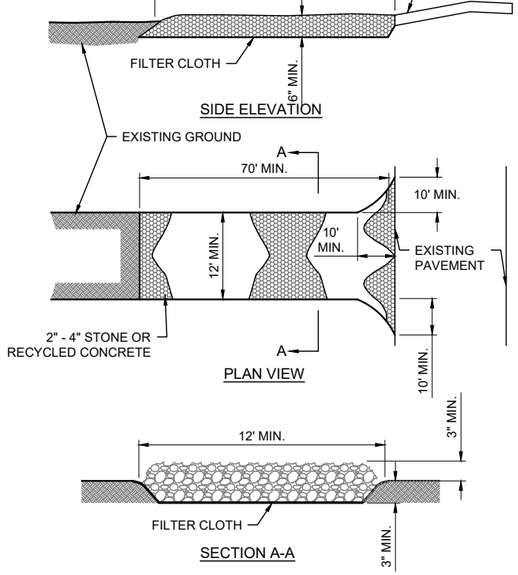
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SITE FLATWORK AND GRANULAR PLAN

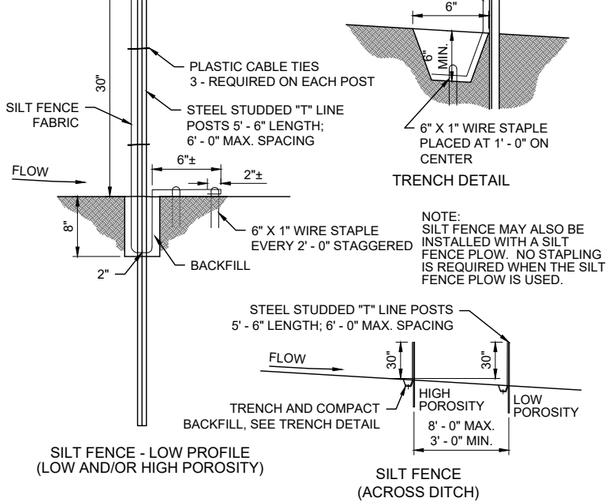
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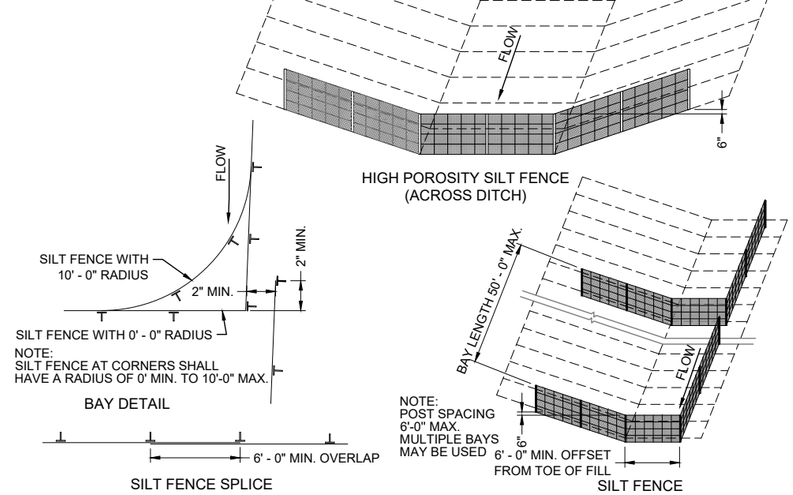
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1 **STABILIZED CONSTRUCTION ENTRANCE**
SCALE: N.T.S.




2 **SILT FENCE DETAIL**
SCALE: N.T.S.




3 **SILT FENCE DETAIL**
SCALE: N.T.S.







5 **SILT FENCE AREA INLET PROTECTION**
SCALE: N.T.S.




4 **CURB INLET FILTER**
SCALE: N.T.S.




NOTE:
SECTION A-A & B-B ARE TYPICAL FOR FOAM TRIANGLE, WATTLE, & RIGID PLASTIC TRIANGLE TEMPORARY SILT CHECKS.

6 **SILT DIKE WATTLES**
SCALE: N.T.S.

NOTE:
THIS IS A STANDARD DETAIL SHEET. ALL DETAILS SHOWN MAY NOT BE USED ON THIS PROJECT




7 **SILT DIKE WATTLES**
SCALE: N.T.S.

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ELECTRIC/STORAGE ROOM #101

SCRIM TANK CHEMICAL CONTROLS TO REMAIN, NOT SHOWN ON EXISTING PLANS

WATER WALL AND SCRIM VFD TO REMAIN,
RIVER JET VFD TO BE REMOVED, SALVAGE TO OWNER,
DEMOLISH ALL POWER CIRCUITS AND CONTROL WIRING FROM WATER FEATURE CONTROL PANEL

WATER FEATURE CONTROL PANEL TO REMAIN, REFERENCE ELECTRICAL PLANS

REMOVE FOGGER EQUIPMENT INCLUDING PUMP, CONTROLLER, FILTER, RO TANK. ABANDON ELECTRICAL TO POWER PANELS, SALVAGE ALL EQUIPMENT TO CITY.

MECHANICAL ROOM #102

ABANDON FOGGER REVERSE OSMOSIS SYSTEM, SALVAGE TO CITY

EQUIPMENT TO REUSE, REFERENCE SHEET C1.22 FOR RELOCATION AND PIPING ADJUSTMENTS

SALVAGE ACID TANK

ABANDON ALL EQUIPMENT, SALVAGE TO CITY. REINSTALL EQUIPMENT NOTED IN PROPOSED WORK.

SALVAGE CHEMICAL CONTROLLERS TO CITY, REMOVE ALL EQUIPMENT TO ELECTRICAL JUNCTION BOXES

NOTES:
1) REMOVE CONCRETE MAINTENANCE PADS FOR ALL ABANDONED EQUIPMENT
2) REFERENCE SHEET C1.22 FOR PIPING ADJUSTMENTS

ABANDON PUMP AND FILTER, SALVAGE TO CITY. POTABLE WATER SUPPLY TO BUBBLERS TO REMAIN.

EXISTING PIPING FED BY POTABLE WATER SYSTEM TO REMAIN

SCRIM TANK TO REMAIN

SALVAGE CHEMICAL CONTROLLERS TO CITY, REMOVE ALL EQUIPMENT TO ELECTRICAL JUNCTION BOXES TYPICAL OF TWO, THIS WALL

WATER WALL PUMP TO REMAIN, ADJUST PIPING PER SHEET C1.22

ABANDON ALL EQUIPMENT, SALVAGE TO CITY. REINSTALL EQUIPMENT NOTED IN PROPOSED WORK.

2'-11½" CLEAR

4" FFD

1 **PUMP ROOM LAYOUT PLAN**
SCALE: 3/4" = 1'-0"

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PUMP ROOM LAYOUT PLAN

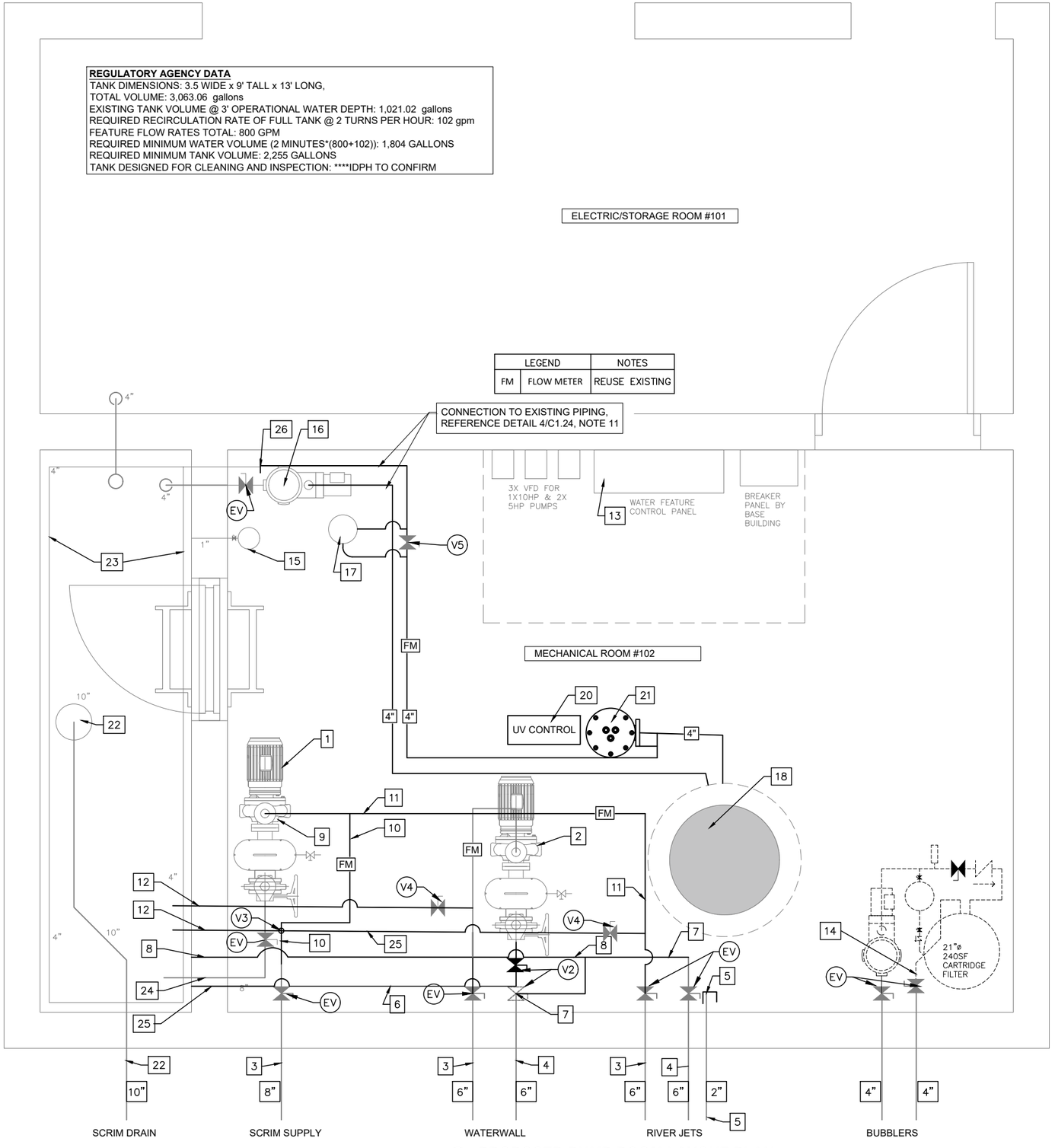
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**REGULATORY AGENCY DATA**
TANK DIMENSIONS: 3.5 WIDE x 9' TALL x 13' LONG,
TOTAL VOLUME: 3,063.06 gallons
EXISTING TANK VOLUME @ 3' OPERATIONAL WATER DEPTH: 1,021.02 gallons
REQUIRED RECIRCULATION RATE OF FULL TANK @ 2 TURNS PER HOUR: 102 gpm
FEATURE FLOW RATES TOTAL: 800 GPM
REQUIRED MINIMUM WATER VOLUME (2 MINUTES*(800+102)): 1,804 GALLONS
REQUIRED MINIMUM TANK VOLUME: 2,255 GALLONS
TANK DESIGNED FOR CLEANING AND INSPECTION: ****IDPH TO CONFIRM




1 **PROPOSED PUMP ROOM LAYOUT PLAN**
SCALE: 3/4" = 1'-0"

**GENERAL POOL MECHANICAL NOTES:**

1) PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERATIONAL PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE
2) PIPES SHALL BE SCH 40 PVC, SIZES ARE NOMINAL I.P.S.
3) INTERIOR BUILDING PIPING PIPING SHALL BE INSTALLED AS TIGHT TO BUILDING WALLS, CEILING, OR ROOF STRUCTURE AS POSSIBLE, UNLESS OTHERWISE NOTED.
4) PIPING INDICATED IS SCHEMATIC AND DOES NOT ACCOUNT FOR VARIATION IN GRADE OR SLOPE DISTANCES, ADDITIONAL FITTINGS AND PIPE LENGTH BEYOND INDICATED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER
5) INSTALL DRAIN VALVES AND SLOPE PIPING TO DRAIN TO ALLOW COMPLETE DRAINAGE OF PIPING SYSTEMS FOR WINTERIZING
6) INSTALL PIPING WITH SINGLE SLOPES TO PREVENT AIR LOCK, AUTOMATIC PRESSURE RELIEF TO BE PROVIDED ON HIGH POINTS OF ABOVE GROUND PIPING SYSTEMS OR AS NOTED
7) BOND EQUIPMENT PER NEC, REFERENCE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION
8) CONTRACTOR MAY SALVAGE AND REINSTALL MATERIAL FOR NEW PIPE ROUTING

| VALVE IDENTIFICATION | |
|---|---|
| VALVE TAG | DESCRIPTION |
| EV | EXISTING VALVE TO REMAIN |
| V1 | 8" GEAR OPERATED BUTTERFLY |
| V2 | RELOCATE EXISTING 6" BUTTERFLY |
| V3 | 4" BUTTERFLY VALVE, NORMALLY OPEN WITH ELECTRONIC ACTUATOR EQUAL TO BRAY SERIES 70, CONTROL OPERATION WITH WATER FEATURE CONTROL PANEL, REFERENCE ELECTRICAL, INSTALLED IN VERTICAL PIPING |
| V4 | 4" BUTTERFLY VALVE, NORMALLY OPEN WITH ELECTRONIC ACTUATOR EQUAL TO BRAY SERIES 70, CONTROL OPERATION WITH WATER FEATURE CONTROL PANEL, REFERENCE ELECTRICAL |
| V5 | 4" BUTTERFLY |

| KEY NOTES | |
|---|---|
| NOTE | DESCRIPTION |
| 1 | EXISTING 10HP 208V 3PH SCRIM DISPLAY PUMP, ADJUST VFD TO PROVIDE 500GPM @40' TDH, CONFIRM VISUAL EFFECT OF FEATURES AND ADJUST FLOW RATE AS NECESSARY |
| 2 | EXISTING 5HP 208V 3PH WATER WALL PUMP, TO REMAIN, 300GPM @40' TDH |
| 3 | EXISTING PRESSURE PIPING, TO REMAIN |
| 4 | EXISTING SUCTION OR GRAVITY PIPING, TO REMAIN |
| 5 | EXISTING 2" FEED TO RIVERJET TANK, CAP WITH PVC CAP IN MECHANICAL ROOM |
| 6 | 6" SUCTION, WATER WALL FEATURE PUMP |
| 7 | CONNECT 6" WATERWALL DRAIN TO 6" RIVER JET DRAIN, INSTALL ALL SCH 40 PVC FITTINGS AND PIPING NECESSARY, PIPING SHALL GRAVITY DRAIN TO SCRIM TANK |
| 8 | 8" SCH 40 PVC, GRAVITY DRAIN TO EXISTING SCRIM TANK, CORE THROUGH CONCRETE WALL AND INSTALL WALL SLEEVE PER DETAIL 1/C1.24 |
| 9 | REMOVE EXISTING DISCHARGE PIPING, REINSTALL EXISTING VALVES, GAUGES, FLOW METERS, AND SIMILAR IN NEW PIPING FOR SCRIM AND RIVER JET SUPPLY. CONTRACTOR SHALL ROUTE PIPING TO MAINTAIN A MINIMUM 3' CLEAR IN FRONT OF SCRIM TANK DOOR, REFERENCE DETAIL 4/C1.23 |
| 10 | 8" SCRIM PRESSURE SUPPLY, CONNECT TO EXISTING VALVE AND PIPE THROUGH WALL |
| 11 | 6" RIVER JET PRESSURE SUPPLY, CONNECT TO EXISTING VALVE AND PIPE THROUGH WALL |
| 12 | 4" CORE THROUGH SCRIM TANK, DRAINS SUPPLY PIPING WHEN FEATURES NOT OPERATING, INSTALL WALL SLEEVE PER DETAIL 1/C1.24 |
| 13 | CONTRACTOR TO ADJUST CONTROLS FOR OPERATION OF VALVES AND PUMPS |
| 14 | BUBBLER PIPING TO REMAIN AS POTABLE WATER SYSTEM, CONTRACT SHALL REMOVE AND SALVAGE EQUIPMENT TO OWNER, REMOVE ALL CONCRETE EQUIPMENT PADS |
| 15 | WATER LEVEL SENSOR TO REMAIN, CONTRACTOR TO TEST FILL SYSTEM AND WATER LEVEL SENSOR AND REPAIR AS NECESSARY. |
| 16 | EXISTING 3HP RECIRCULATION PUMP, REMOVE EXISTING PIPING AND INSTALL PER PLANS. CONTRACTOR TO SET FLOW RATE EQUAL TO A MINIMUM 100 GPM. |
| 17 | EXISTING TRICHLOR CHEMICAL FEEDER: PENTAIR HC-3315, MAXIMUM OUTPUT OF 1.22 LBS/HR, CONNECT DOWNSTREAM OF FILTER AND UV EQUIPMENT, PIPING TO CHEMICAL FEEDER SHALL BE INSTALLED WITH VALVING PER MANUFACTURER RECOMMENDATIONS, CONTRACTOR TO REUSE EXISTING CHEMICAL PIPING AND VALVING TO THE EXTENT POSSIBLE |
| 18 | RELOCATE EXISTING CARTRIDGE FILTER, PENTAIR CCP520, MAX FLOW RATE 150 GPM. CONTRACTOR TO RELOCATE FILTER ON EXISTING EQUIPMENT PAD AS SHOWN, CONTRACTOR TO LOCATE AND MAINTAIN A MINIMUM 6" CLEARANCE AROUND ENTIRE FILTER TO ANY PIPING OR OBSTRUCTION |
| 20 | UV CONTROL BOX AND UV SYSTEM, REFERENCE DETAIL 3/C1.24. CONTRACTOR TO INSTALL STAINLESS STEEL OR FIBERGLASS SUPPORT SYSTEM FOR MOUNTING, ALSO REFERENCE ELECTRICAL PLANS, INSTALL SYSTEM PER MANUFACTURER REQUIREMENTS |
| 21 | ULTRAVIOLET SECONDARY DISINFECTANT, REFERENCE DETAIL 3/C1.24 VERIFY LOCATION WILL PROVIDE A MINIMUM 9'-6" FROM F/F TO CEILING |
| 22 | EXISTING 10" GRAVITY DRAIN PIPE FROM SCRIM DRAIN |
| 23 | EXISTING 4" TANK LOOP FOR EQUALIZED RECIRCULATION WITHIN TANK, TO REMAIN |
| 24 | EXISTING 8" SUCTION TO REMAIN |
| 25 | 6" WATERWALL PUMP SUCTION CORE THROUGH SCRIM TANK, ALSO GRAVITY DRAINS FEATURE SUPPLY PIPING TO TANK WHEN WATER WALL FEATURE PUMP IS NOT ACTIVATE, INSTALL WALL SLEEVE PER DETAIL 1/C1.24 |
| 26 | CONNECT TO EXISTING 4" TANK SUPPLY |


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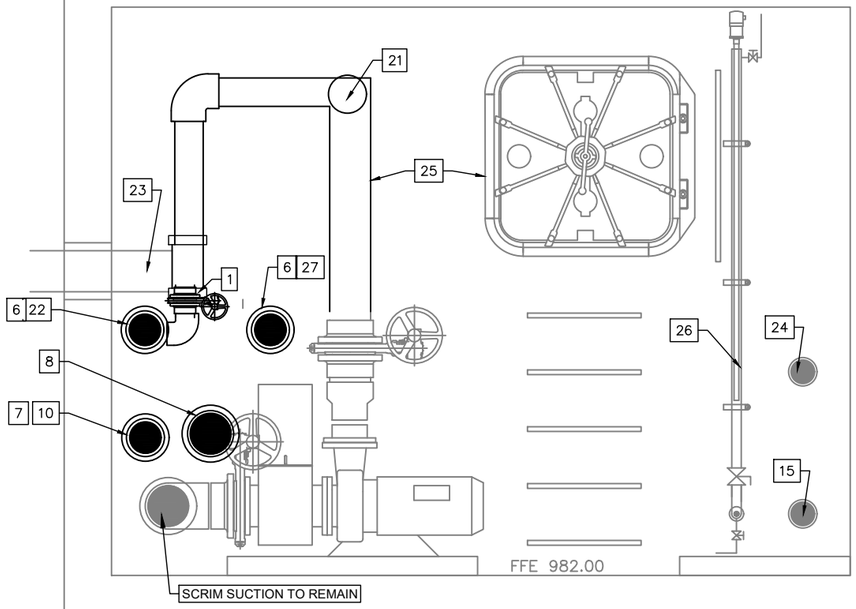
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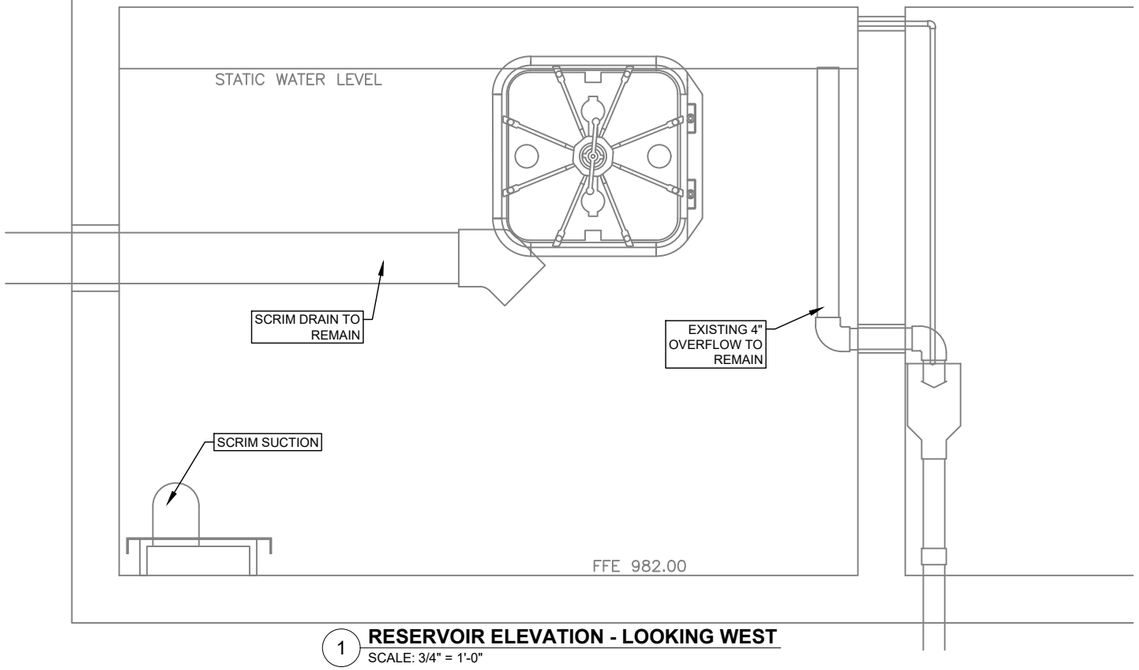
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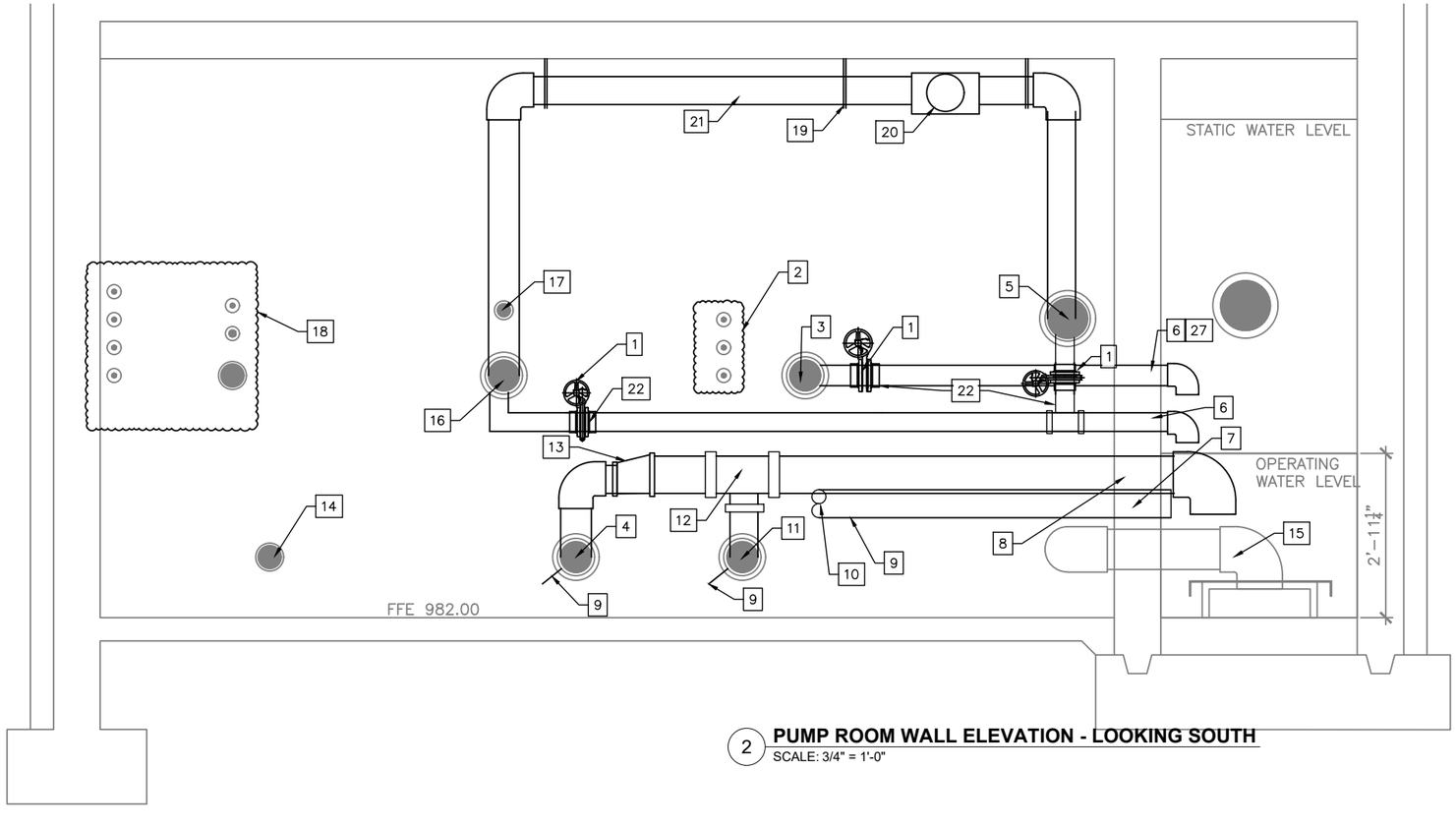

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4 **PUMP ROOM WALL ELEVATION - LOOKING WEST**
SCALE: 3/4" = 1'-0"




1 **RESERVOIR ELEVATION - LOOKING WEST**
SCALE: 3/4" = 1'-0"




2 **PUMP ROOM WALL ELEVATION - LOOKING SOUTH**
SCALE: 3/4" = 1'-0"

| KEY NOTES | |
|---|---|
| NOTE | DESCRIPTION |
| 1 | 4" ACTUATED VALVE, NORMALLY OPEN |
| 2 | ABANDON FOGGER PIPING AND CAP |
| 3 | 6" WATER WALL SUPPLY TO REMAIN, INSTALL TEE TO DRAIN PIPING TO 4" |
| 4 | 6" RIVER JET DRAIN PIPING |
| 5 | 8" SCRIM SUPPLY TO REMAIN |
| 6 | CORE 4" DRAIN LINES THROUGH TANK WALL, REFERENCE DETAIL 1/C1.24 |
| 7 | CORE 6" THROUGH TANK WALL, REFERENCE DETAIL 1/C1.24 |
| 8 | 8" GRAVITY DRAIN FROM WATER WALL AND RIVER JET DRAINS, CORE 8" THROUGH TANK WALL, REFERENCE DETAIL 1/C1.24 |
| 9 | INSTALL WINTERIZING 1" VALVE IN LOW POINT OF PIPING, EXTEND PIPING TO EXISTING FLOOR DRAIN |
| 10 | 6" TO WATER WALL PUMP SUCTION |
| 11 | 6" WATER WALL DRAIN PIPING |
| 12 | 8"X6"X8" REDUCING TEE |
| 13 | 8"X6" ECCENTRIC REDUCER |
| 14 | BUBBLER SUCTION, NO WORK |
| 15 | EXISTING RECIRCULATION SUCTION TO REMAIN |
| 16 | 6" RIVER JET SUPPLY TO REMAIN |
| 17 | CAP AND ABANDON 2" RIVER JET TANK RECIRCULATION |
| 18 | ABANDON WATER LEVEL SENSORS AND CAP CONDUIT OTHERS PIPING TO REMAIN |
| 19 | SUPPORT PIPE FROM CEILING, TYPICAL |
| 20 | TEE AT SCRIM DISPLAY PUMP MAIN PIPING, REFERENCE DETAIL 4/C1.23 |
| 21 | TEE FOR SCRIM DISPLAY PUMP, SUPPLIES RIVERJETS AND SCRIM FEATURES |
| 22 | FEATURE SUPPLY DRAIN, ACTUATED VALVES OPEN WHEN FEATURE PUMPS ARE OFF |
| 23 | EXISTING PIPING TO SCRIM |
| 24 | TANK RECIRCULATION TO REMAIN |
| 25 | MAINTAIN MINIMUM 2' CLEARANCE HORIZONTALLY TO PIPING |
| 26 | AUTO-FILL ASSEMBLY TO REMAIN |
| 27 | 4" WATERWALL SUPPLY PIPE DRAIN |

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PUMP ROOM
SECTION AND ELEVATIONS

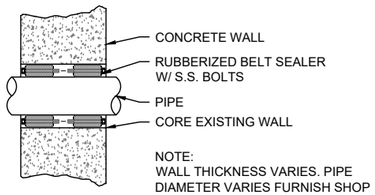
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| REVISIONS | |

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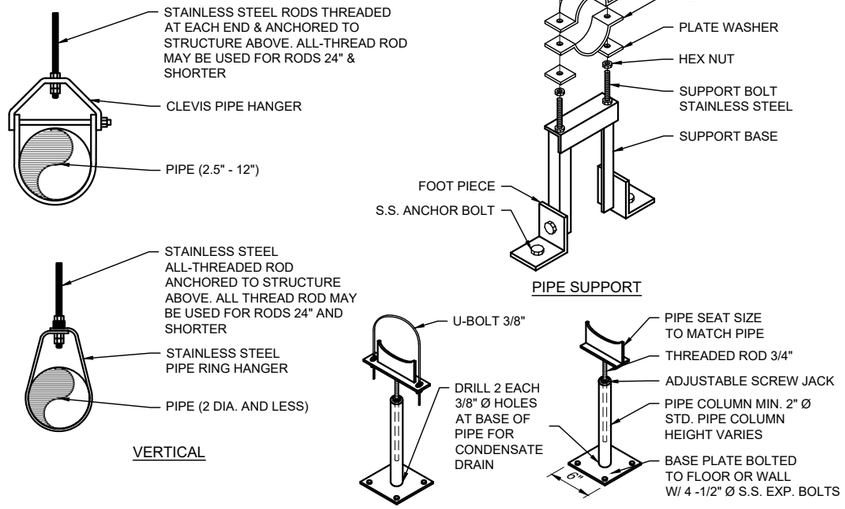
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NOTE:
WALL THICKNESS VARIES. PIPE DIAMETER VARIES FURNISH SHOP DRAWINGS FOR APPROVAL.

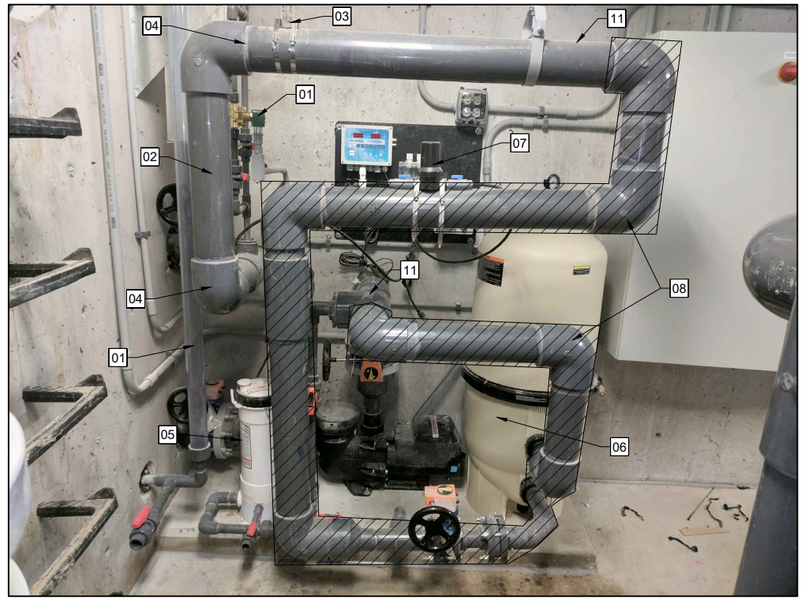
EXISTING WALL SECTION

## 1 WALL SLEEVE
SCALE: N.T.S.



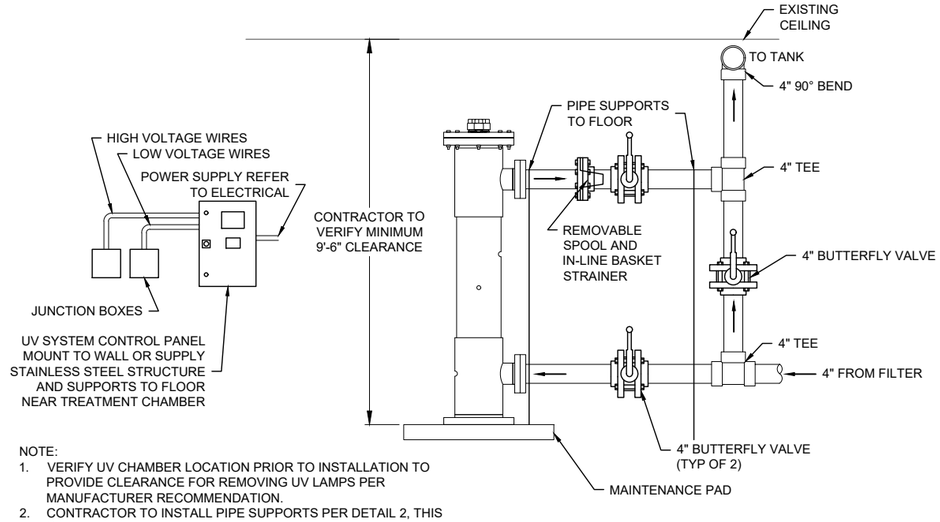

## 2 PIPE SUPPORTS
SCALE: N.T.S.

NOTE:
1. PIPE DIAMETER VARIES
2. SPACING AS REQUIRED BY PIPE MANUFACTURER OR LOCAL CODE, WHICH EVER IS MORE STRINGENT, ASSUME MAX 140 DEGREE OPERATING TEMPERATURE FOR DETERMINING SPACING



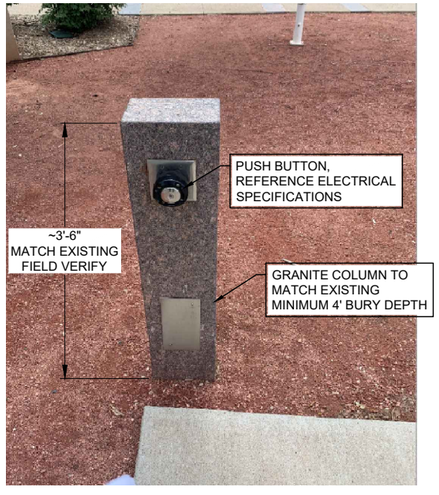

NOTE:
1. REINSTALLATION OF CHEMICAL SYSTEM TO MATCH EXISTING
2. ABANDON ALL OTHER CHEMICAL SYSTEMS

| 00 | KEYNOTE |
|---|---|
| TAG | DESCRIPTION |
| 1 | AUTOMATIC FILL TO REMAIN |
| 2 | 4" RETURN PIPE THROUGH TANK TO REMAIN |
| 3 | FLOW METER TO REMAIN |
| 4 | INSTALL ADDITIONAL PIPE SUPPORTS |
| 5 | CHEMICAL FEEDER TO REMAIN |
| 6 | RELOCATE FILTER PER PLANS |
| 7 | REINSTALL SAMPLING STREAM PRIOR TO EXISTING FLOW METER |
| 8 | REMOVE PIPING |
| 9 | ABANDON, SALVAGE TO OWNER |
| 10 | REUSE EXISTING VALVING, RECONNECT TO MAIN RETURN PER PLAN VIEW |
| 11 | CONNECT EXISTING PIPING TO NEW PIPING |

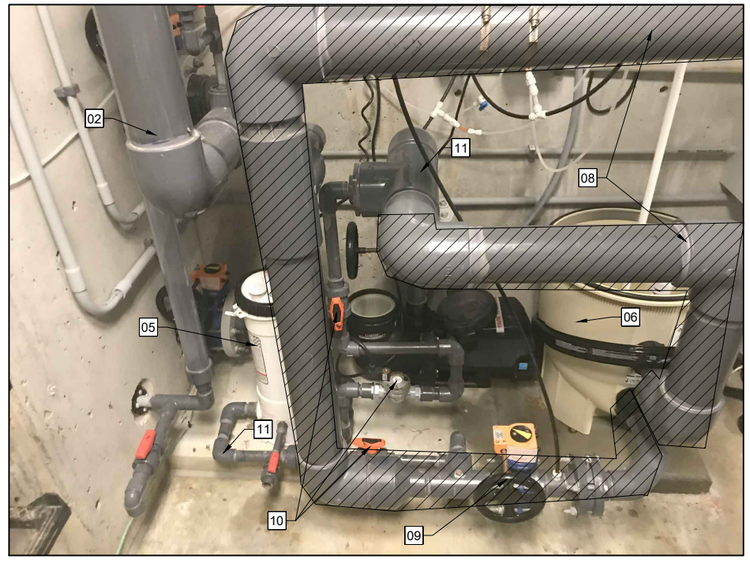



NOTE:
1. VERIFY UV CHAMBER LOCATION PRIOR TO INSTALLATION TO PROVIDE CLEARANCE FOR REMOVING UV LAMPS PER MANUFACTURER RECOMMENDATION.
2. CONTRACTOR TO INSTALL PIPE SUPPORTS PER DETAIL 2, THIS SHEET.
3. UV SHALL BE PENTAIR BIOSHIELD UV OR APPROVED EQUAL

## 3 UV TREATMENT SYSTEM IMPROVEMENTS
SCALE: N.T.S.




## 5 SCRIM ACTIVATION BOLLARD
SCALE: N.T.S.




## 4 TANK RECIRCULATION IMPROVEMENTS
SCALE: N.T.S.

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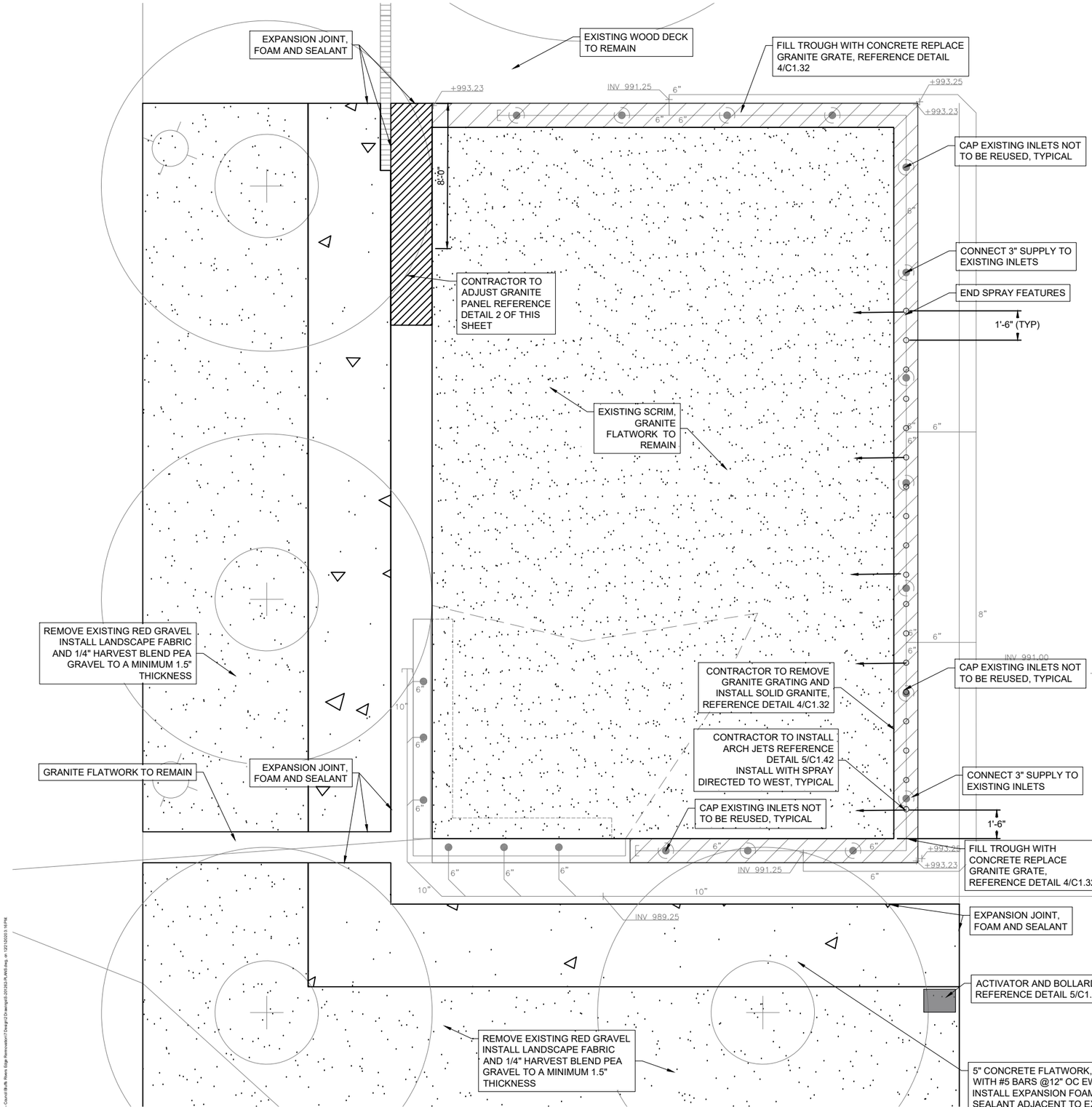
DETAILS

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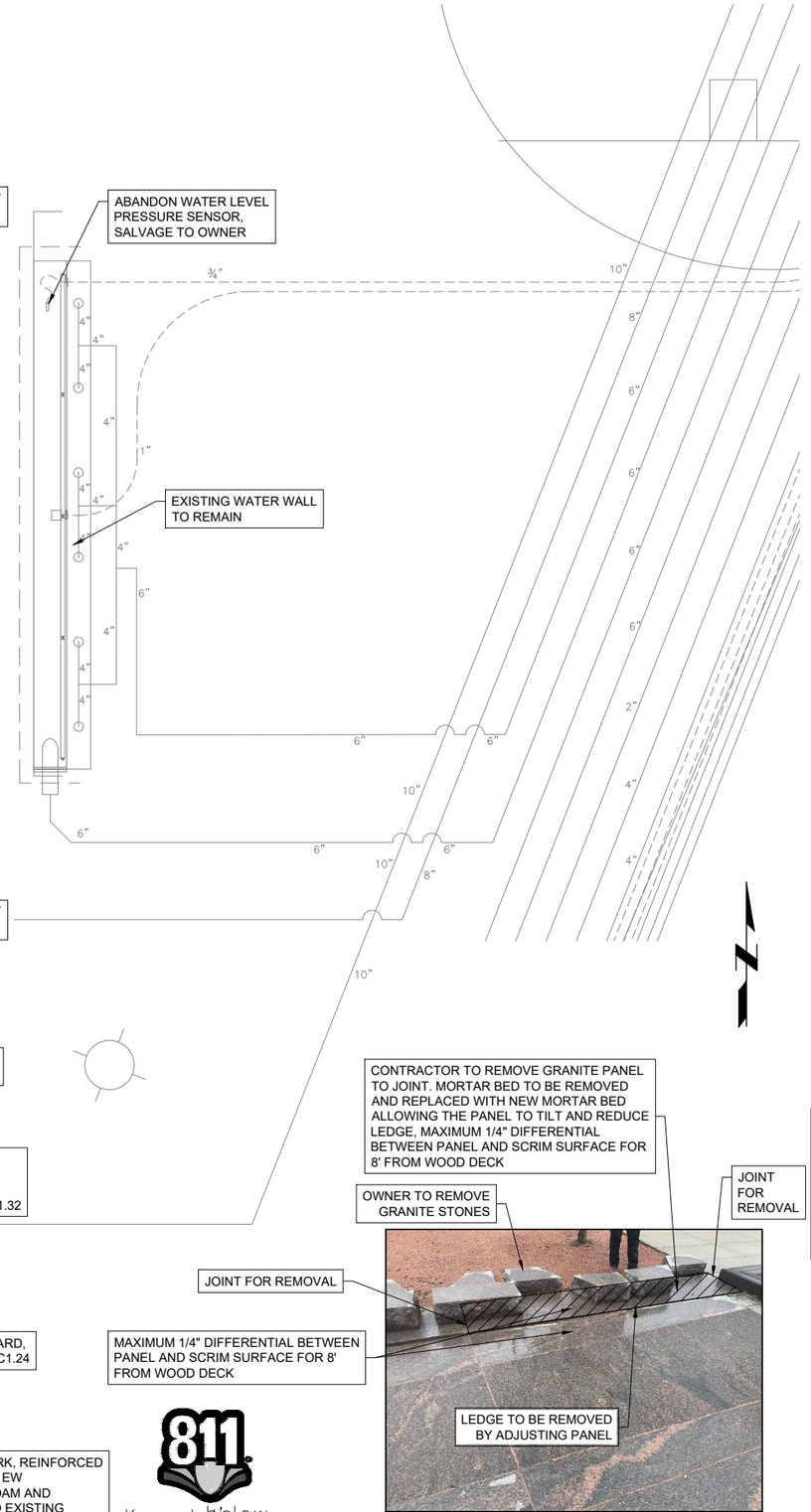
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1 **SCRIM & WATERFALL LAYOUT PLAN**
SCALE: 3/8" = 1'-0"




811 Know what's below. Call before you dig.

2 **SCRIM GRANITE ADJUSTMENT**
SCALE: NTS

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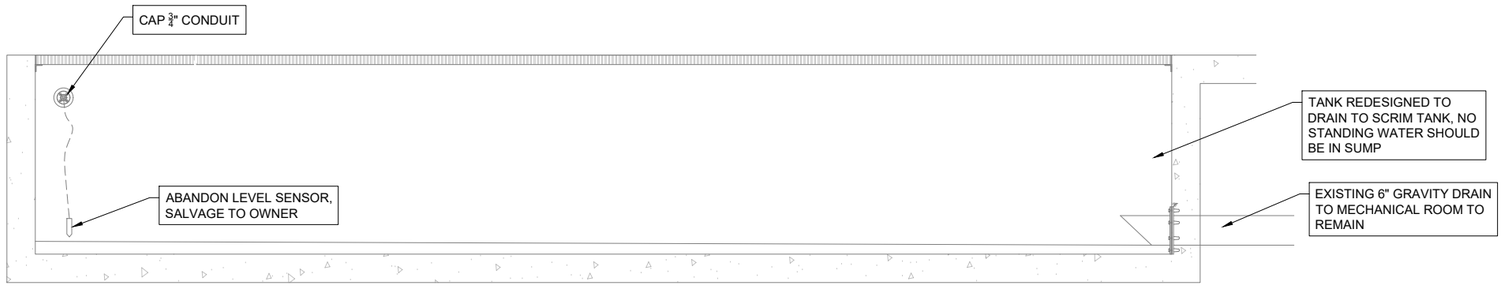
**SCRIM AND WATERWALL LAYOUT PLANS**

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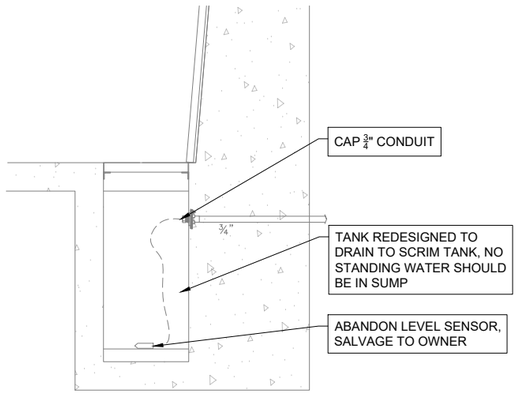
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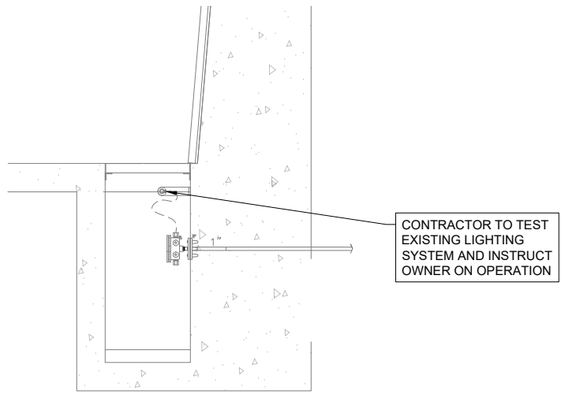
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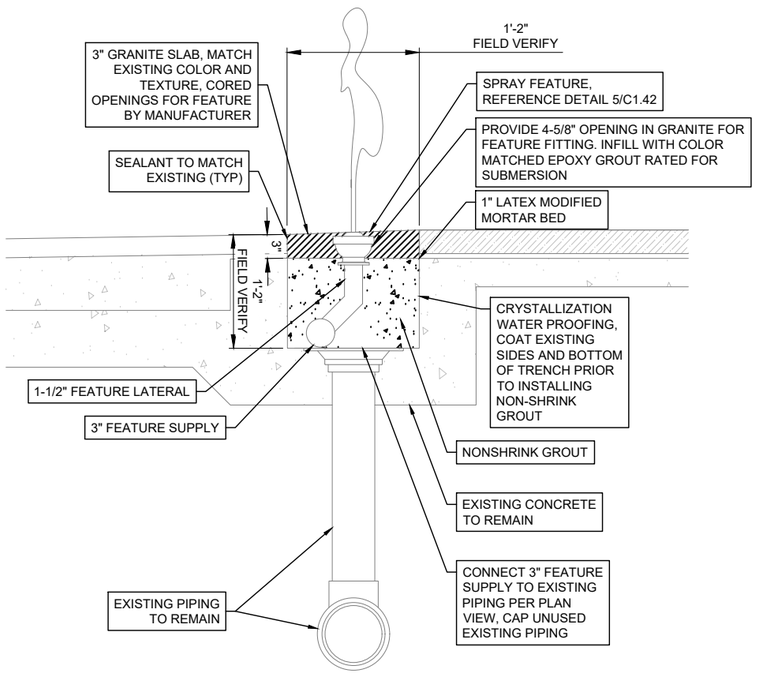

1 **WATER WALL TROUGH SUCTION STUB DETAIL**
SCALE: 3/4" = 1'-0"



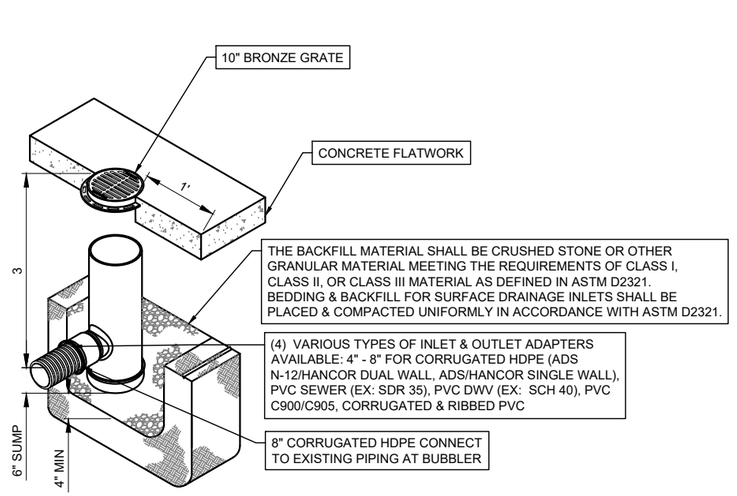

2 **WATER WALL LEVEL SENSOR DETAIL**
SCALE: 3/4" = 1'-0"




3 **WATER WALL LIGHTING DETAIL**
SCALE: 3/4" = 1'-0"




4 **TRENCH DETAIL**
SCALE: 1 1/2" = 1'-0"




| GRATE OPTIONS | PART # |
|---|---|
| BRONZE | 0899CGBF |

1. CUSTOM DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
2. STANDARD DRAIN BASIN HAS FIXED ADAPTER LOCATIONS OF 0° & 180°. CUSTOM DRAIN BASIN ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
3. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL) & PVC SEWER (4" - 24").

5 **DRAIN BASIN DETAIL**
SCALE: NTS

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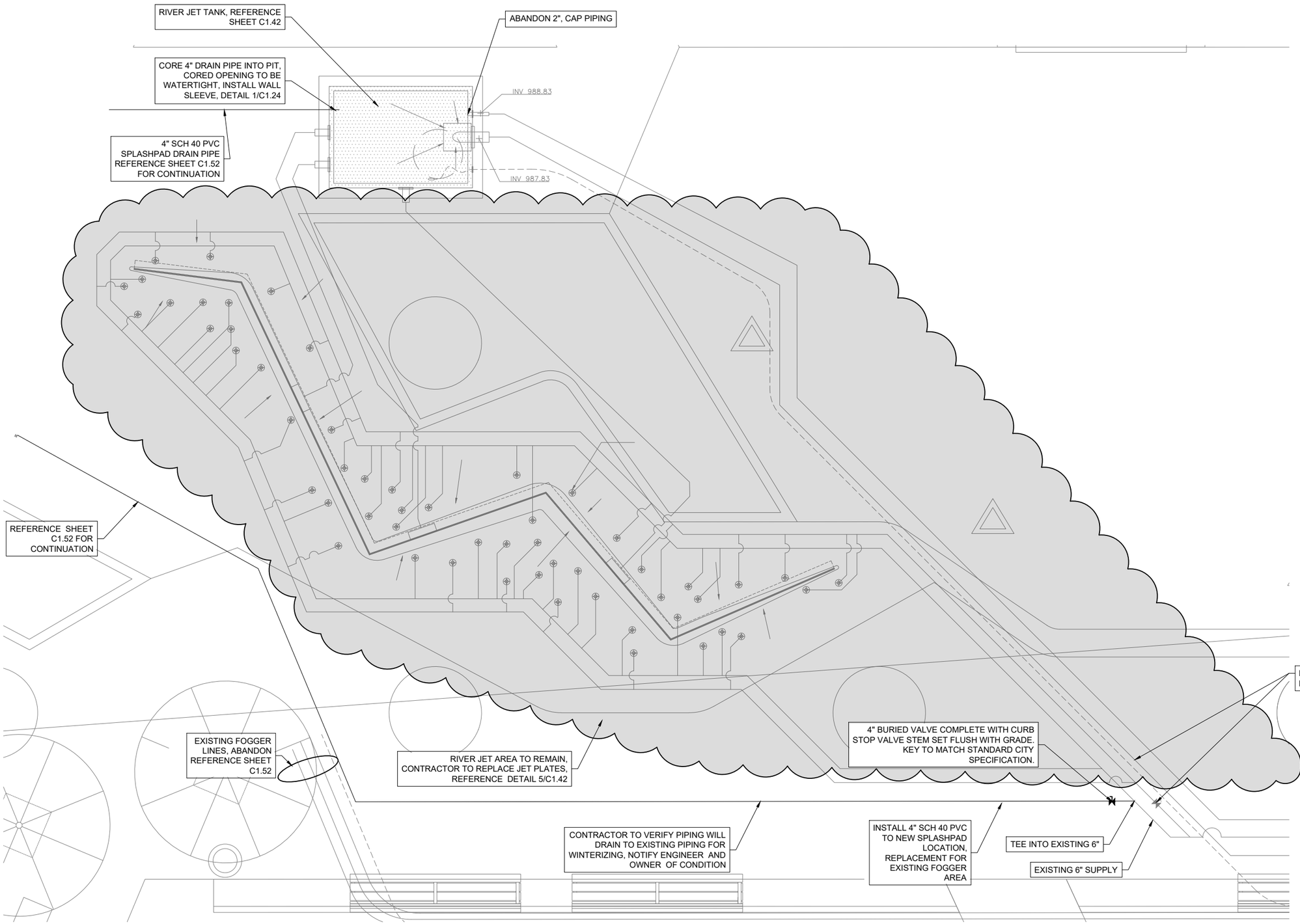
**SCRIM AND WATERWALL DETAILS**

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1 **RIVER JETS LAYOUT PLAN**
SCALE: 3/8" = 1'-0"

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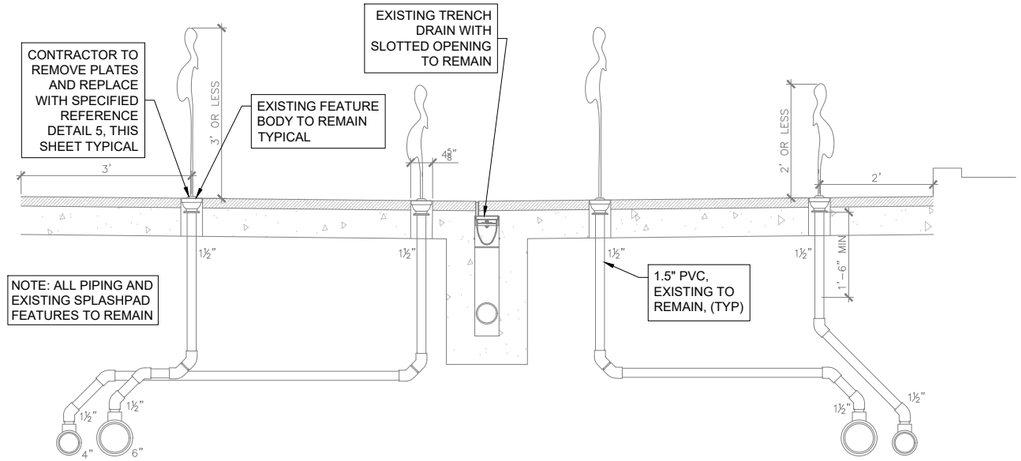
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RIVER JETS LAYOUT PLAN

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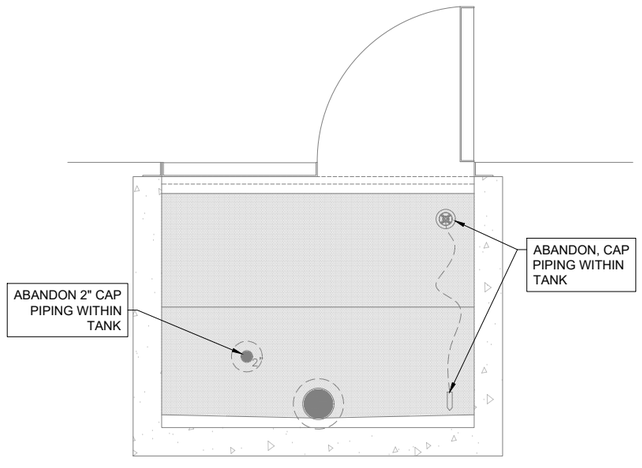
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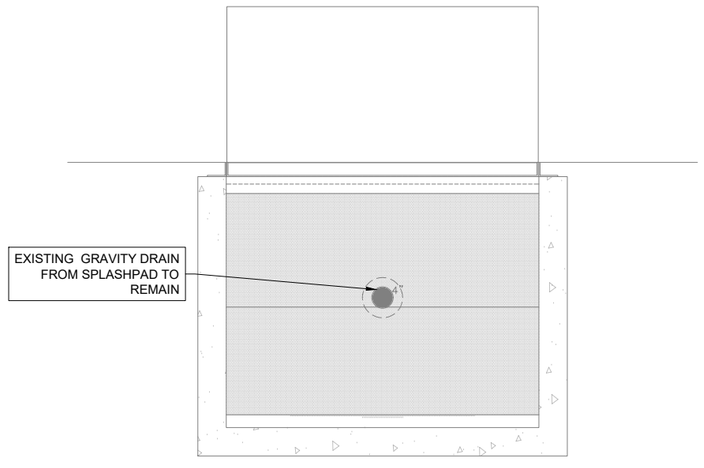

1 **RIVER JETS DETAIL SECTION**
SCALE: 3/4" = 1'-0"

| SPRAYPAD COMPONENTS | | | | |
|---|---|---|---|---|
| SYSTEM | DESCRIPTION | BRAND | MODEL | QTY |
| RIVER JET-EXISTING | EXISTING BODIES TO REMAIN, FLAT BALL WITH SINGLE ORIFICE, PLATE AND SCREWS ONLY | PEM | C1 | 54 |
| FOGGER REPLACEMENT JETS, WEST OF RIVER JETS | BODY AND PLATES | PEM | 6345C1 | 12 |
| SCRIM | BODY AND PLATES | PEM | 6345C1 | 18 |
| | | | | |
| SALES REP CONTACT INFORMATION: FOUNTAIN SUPPLY COMPANY, DANIEL RICHARDI, 661-254-4448; DAN@FOUNTAINSUPPLY.COM | | | | |

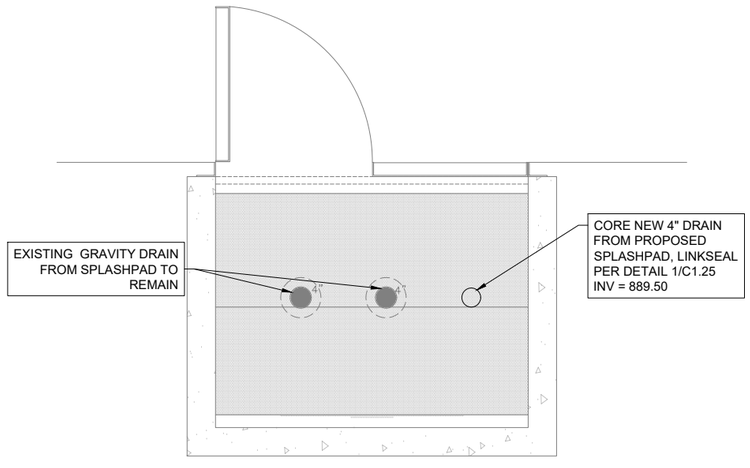
5 **SPRAY FEATURE COMPONENTS TABLE**
SCALE:




2 **RIVER JET SUCTION SUMP DETAIL - EAST WALL**
SCALE: 3/4" = 1'-0"




3 **RIVER JET SUCTION SUMP DETAIL - NORTH WALL**
SCALE: 3/4" = 1'-0"




4 **RIVER JET SUCTION SUMP DETAIL - WEST WALL**
SCALE: 3/4" = 1'-0"

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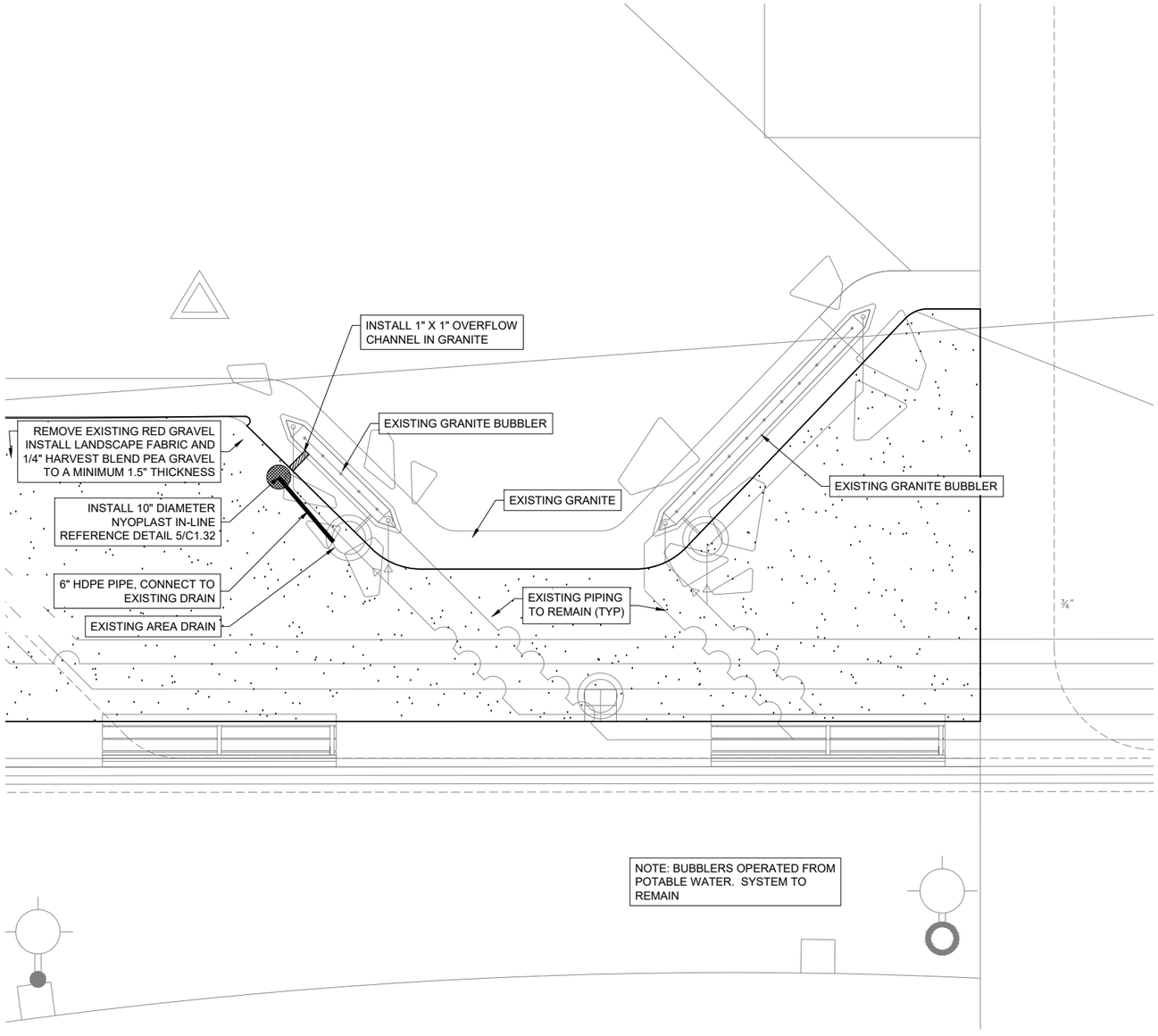
RIVER JET DETAILS

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1 **BUBBLE RUNNEL LAYOUT PLAN**
SCALE: 3/8" = 1'-0"

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**BUBBLER RUNNEL LAYOUT PLAN**

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REFERENCE SHEET C1.1 FOR FLATWORK REMOVAL EXTENTS

CURB AND FLOWER BED TO REMAIN TYPICAL

REMOVE EXISTING FOGGER TRENCH

CONCRETE FLATWORK TO BE REMOVED

CURB AND FLOWER BED TO REMAIN TYPICAL

REFERENCE SHEET C1.1 FOR FLATWORK REMOVAL EXTENTS

EXISTING MANHOLE

EXISTING FOGGER PIPING, ABANDON TO THE EXTENT POSSIBLE AND CAP

1 **FOGGER DEMOLITION PLAN**
SCALE: 3/8" = 1'-0"

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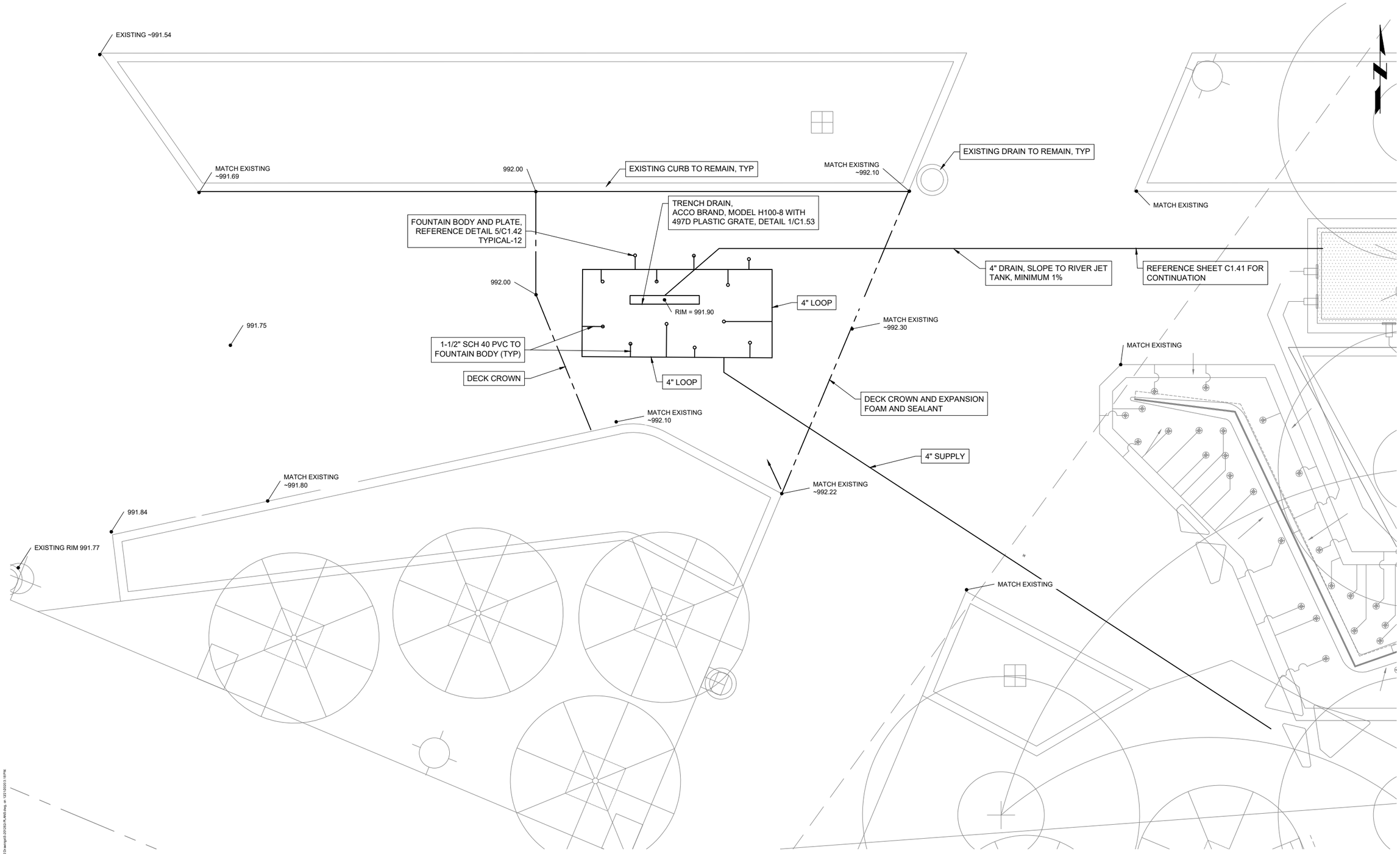
**FOGGER DEMOLITION PLAN**

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1 **FOGGER REPLACEMENT PLAN**
SCALE: 3/8" = 1'-0"

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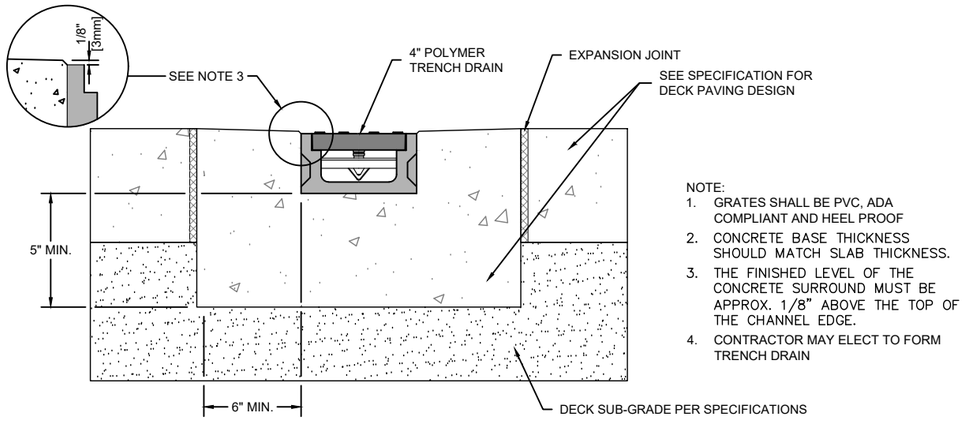
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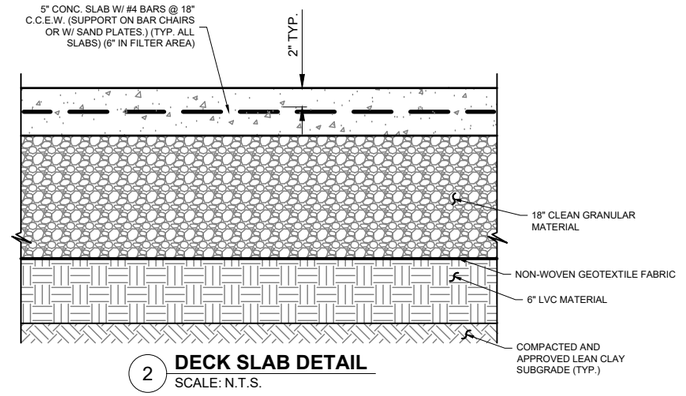
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NOTE:
1. GRATES SHALL BE PVC, ADA COMPLIANT AND HEEL PROOF
2. CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS.
3. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" ABOVE THE TOP OF THE CHANNEL EDGE.
4. CONTRACTOR MAY ELECT TO FORM TRENCH DRAIN

1 **TRENCH DRAIN SECTION**
SCALE: NTS




2 **DECK SLAB DETAIL**
SCALE: N.T.S.

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