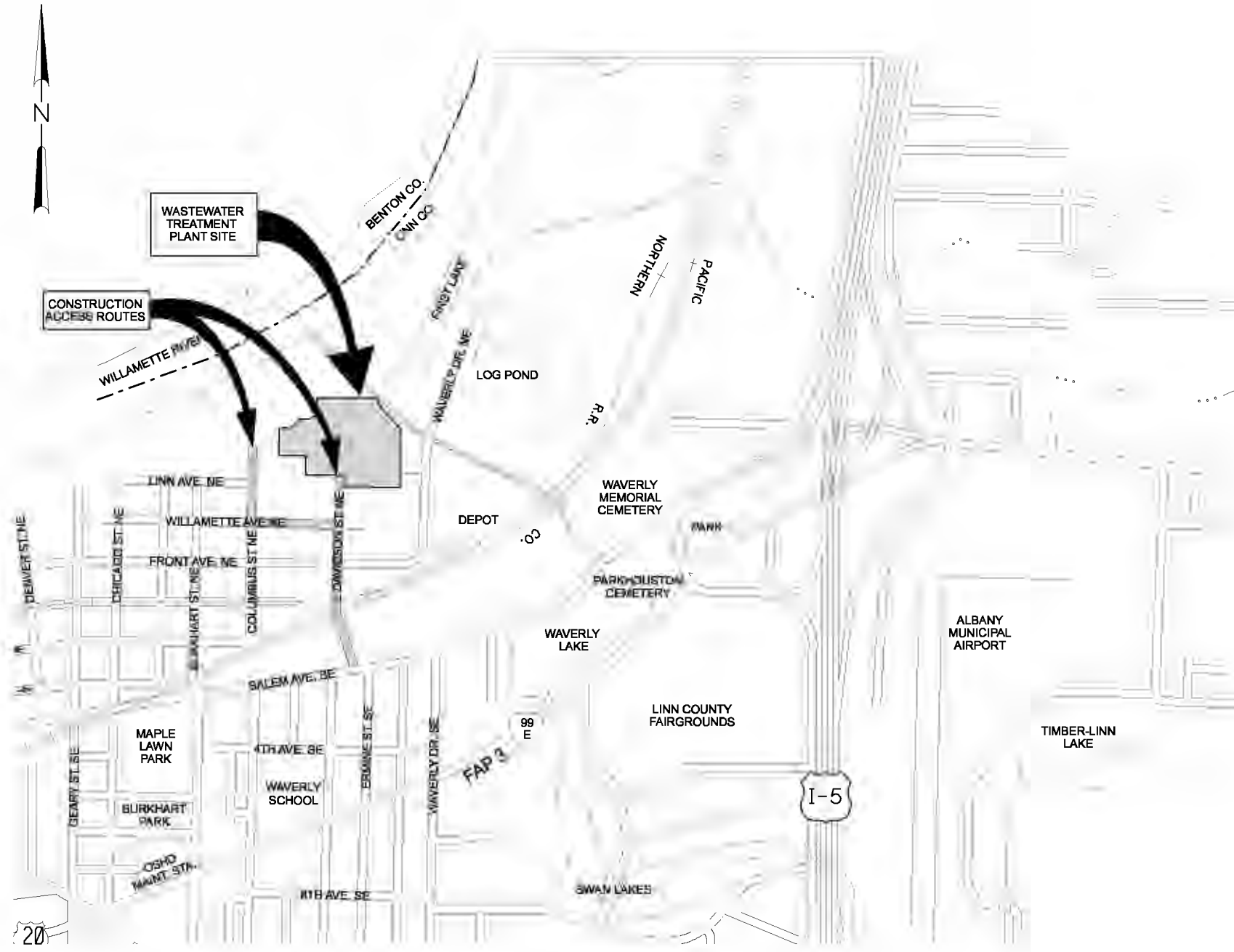
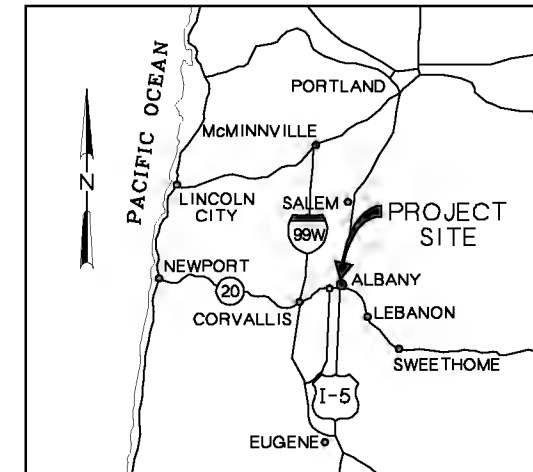


ALBANY WASTEWATER SYSTEM IMPROVEMENTS PROJECT LINN COUNTY, OREGON



VICINITY MAP



LOCATION MAP

RECORD DRAWINGS

Revisions Drawn By CH2M HILL Date 02/2010

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| DR | WB LOVE | | | | | | |
| CHK | RC FRANKENFIELD | 01/20/10 | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | |

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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
LOCATION AND VICINITY MAPS

| | |
|-------|-------------|
| SHEET | 01 |
| DWG | 01-G-01 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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| DR | WB LOVE |
| CHK | RC FRANKENFIELD |
| APVD | CW MASSIE |

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| | | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) | | |
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CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

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| INDEX TO DRAWINGS | DWG 01-G-02 |
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| | | | | | | | | |
|------|-----------------|----------|------|----------|----|------|--|---|
| DSGN | WB LOVE | | | | | | | VERIFY SCALE |
| DR | WB LOVE | | | | | | | BAR IS ONE INCH ON ORIGINAL DRAWING. |
| CHK | RC FRANKENFIELD | 01/20/10 | | | | | | 0 1" |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | | IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
INDEX TO DRAWINGS
SHEET 2

| | |
|-------|-------------|
| SHEET | 03 |
| DWG | 01-G-03 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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| 497 | 95-S-202 | SECTIONS |
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| 500 | 95-S-403 | DETAILS |
| 501 | 95-S-404 | DETAILS |

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| | | | | | | |
|--|-----------------|-----|------|----------|----|------|
| DSGN | WB LOVE | NO. | DATE | REVISION | BY | APVD |
| DR | WB LOVE | | | | | |
| CHK | RC FRANKENFIELD | | | | | |
| APVD | CW MASSIE | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) | | JMD | SJP | | | |

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

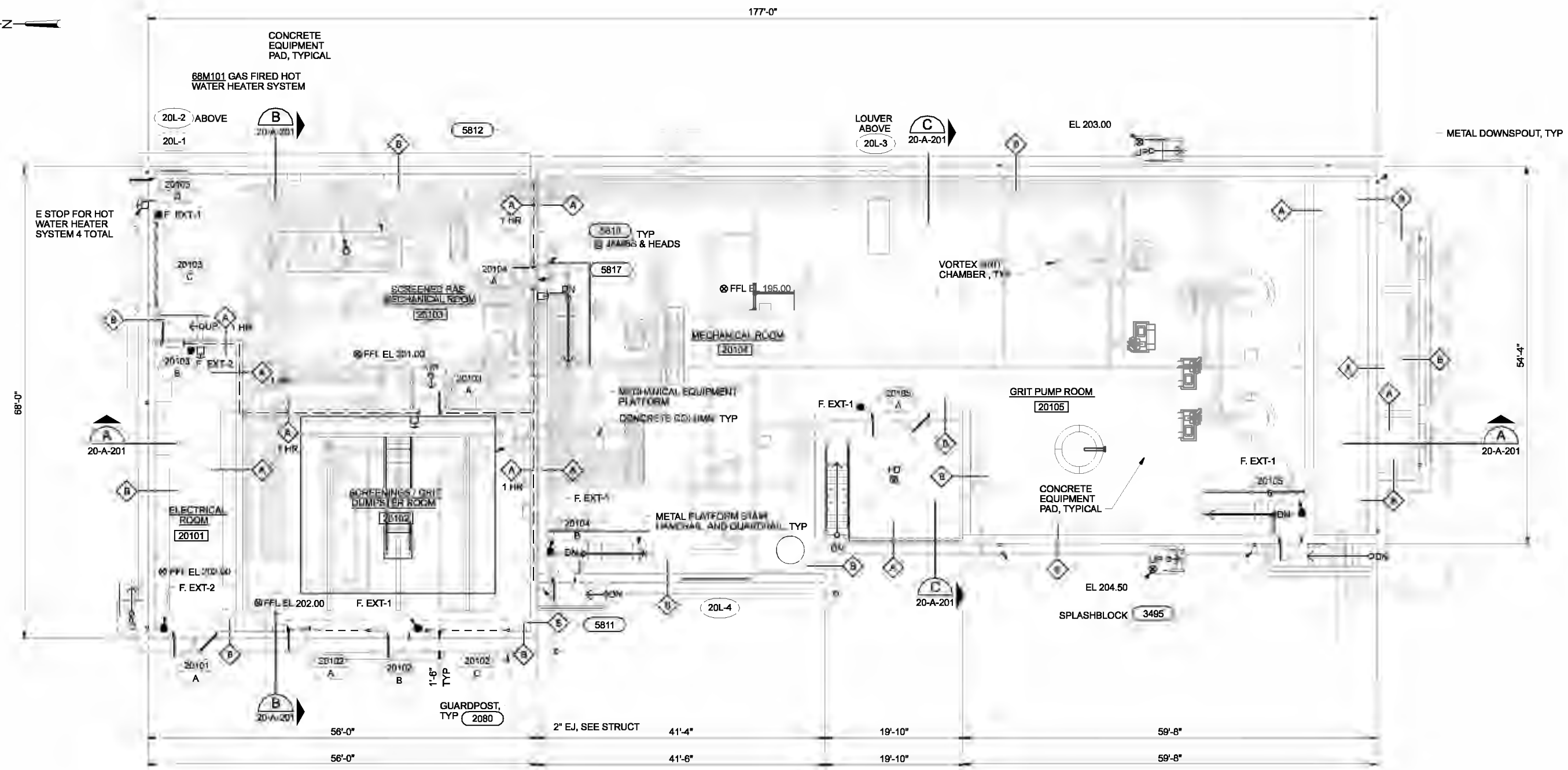
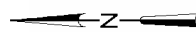


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

GENERAL
 INDEX TO DRAWINGS
 SHEET 3

| | |
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| SHEET | 04 |
| DWG | 01-G-04 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
1. FOR GENERAL ARCHITECTURAL NOTES, SYMBOLS, LEGEND AND WALL TYPES, SEE DWG 01-G-07.
 2. FOR CODE DATA, SEE DWG 01-G-08.
 3. == DENOTES 1 HR FIRE RATED WALL CONSTRUCTION.

OVERALL LOWER LEVEL FLOOR PLAN
1/8"=1'-0"

| | | | | |
|------|------------|---|--------------------|---|
| DSGN | JE CAVE | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | GLB SJP BY APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0" = 1' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | WB LOVE | | | |
| CHK | GB KIRSTEN | | | |
| APVD | CW MASSIE | | | |
| NO. | DATE | | | |

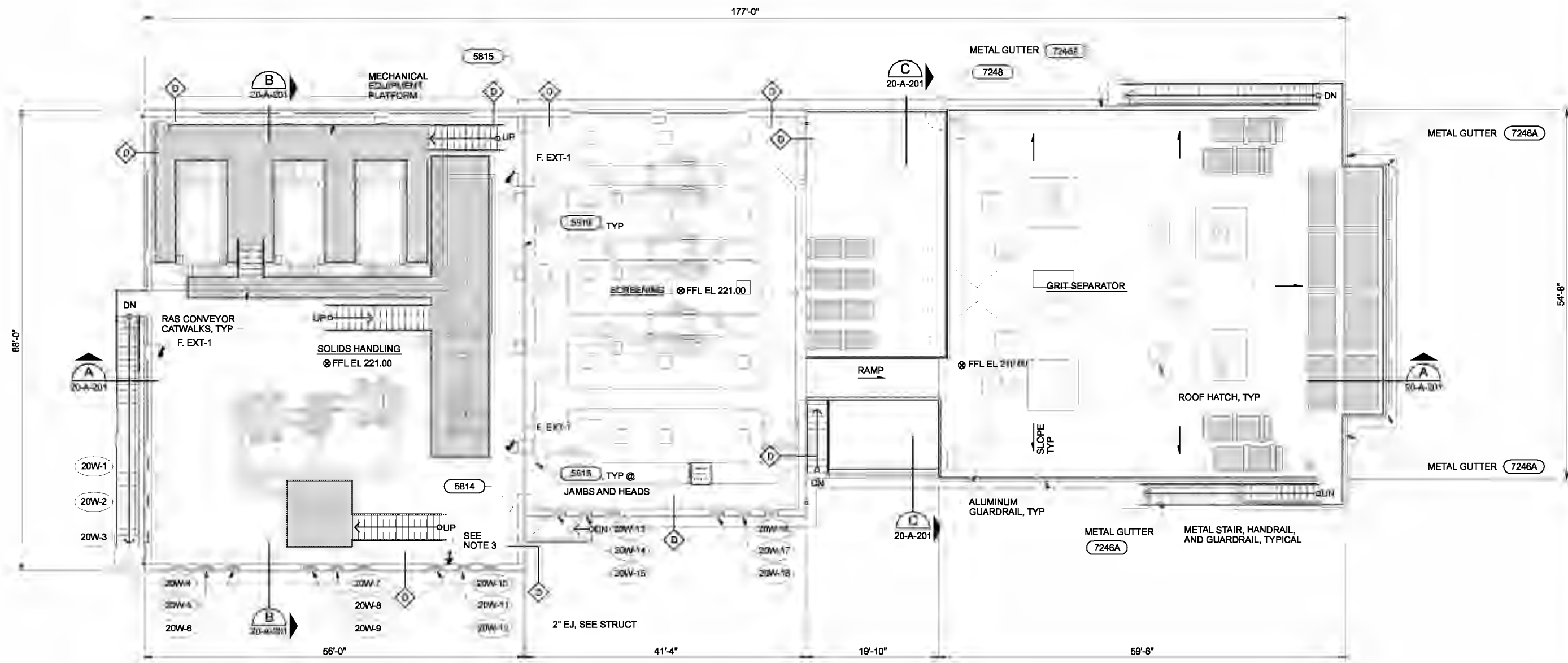
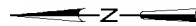


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
**ARCHITECTURAL
OVERALL LOWER LEVEL
FLOOR PLAN**

| | |
|-------|-------------|
| SHEET | 221 |
| DWG | 20-A-130 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
1. FOR GENERAL ARCHITECTURAL NOTES, SYMBOLS, LEGEND AND WALL TYPES, SEE DWG 01-G-07.
 2. FOR CODE DATA, SEE DWG 01-G-08.

OVERALL UPPER LEVEL FLOOR PLAN
1/8"=1'-0"

| | | | | | | | |
|------|------------|-----|------|----------|----|------|--|
| DSGN | JE CAVE | NO. | DATE | REVISION | BY | APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0" = 1' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | WB LOVE | | | | | | |
| CHK | GB KIRSTEN | | | | | | |
| APVD | CW MASSIE | | | | | | |

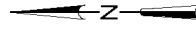


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
**ARCHITECTURAL
OVERALL UPPER LEVEL
FLOOR PLAN**

| | |
|-------|-------------|
| SHEET | 222 |
| DWG | 20-A-140 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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BOILER STACK PENETRATION
7616 7617 7618

SHEET METAL ROOFING ON ROOF THERMAL BARRIER, TYP
METAL DOWNSPOUT, TYP

METAL GUTTER, TYP

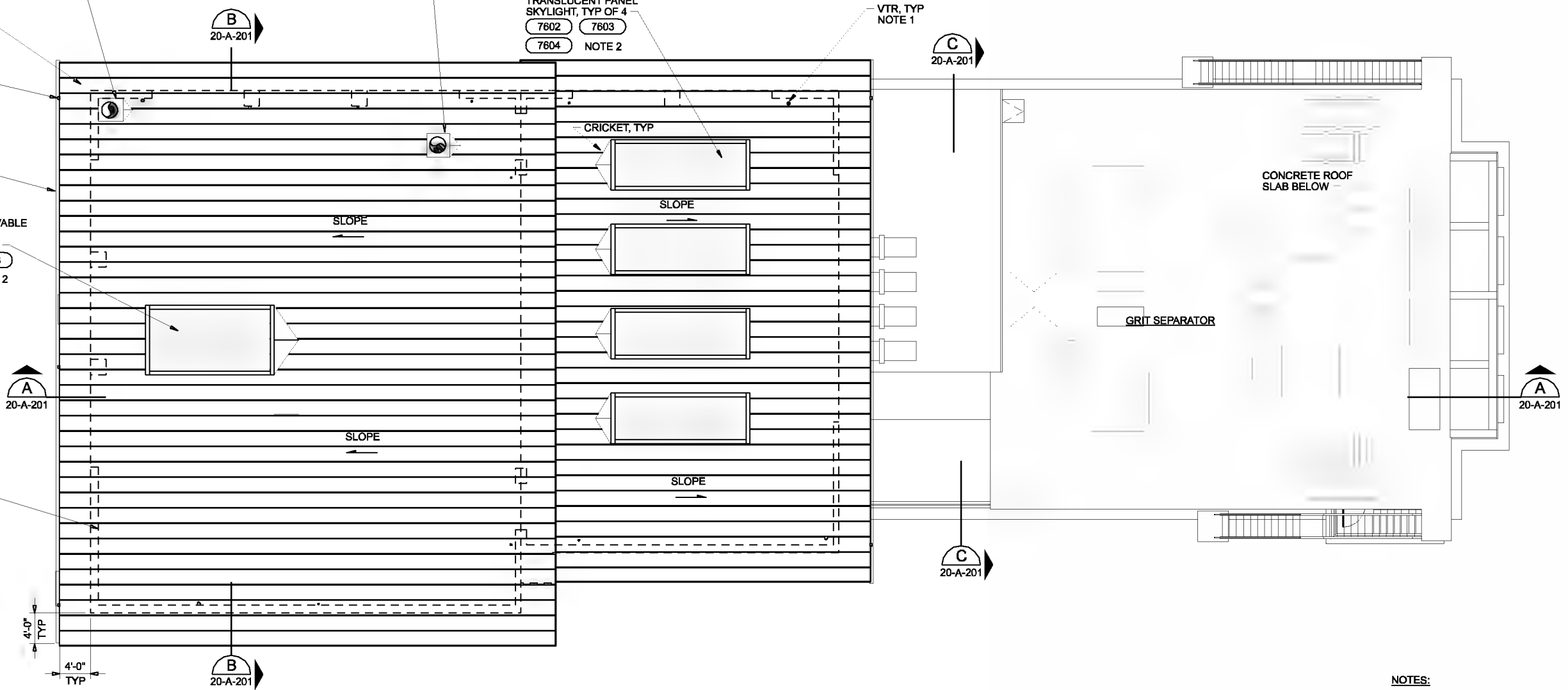
15'-9" X 8' REMOVABLE TRANSLUCENT PANEL SKYLIGHT
7602 7603
7604 NOTE 2

LINE OF WALL BELOW, TYP

ODOROUS AIR DUCT PENETRATION
7616 7617 7618

17' X 5'-7" REMOVABLE TRANSLUCENT PANEL SKYLIGHT, TYP OF 4
7602 7603
7604 NOTE 2

VTR, TYP
NOTE 1



ROOF PLAN
1/8"=1'-0"

NOTES:

1. USE (7601) FOR PIPE PENETRATIONS THROUGH ROOFING, UNLESS NOTED OTHERWISE. SEE MECHANICAL, HVAC, PLUMBING, AND ELECTRICAL DRAWINGS FOR PIPE LOCATIONS.
2. SKYLIGHT DIMENSIONS ARE HORIZONTAL PROJECTIONS OF CLEAR OPENINGS BETWEEN ROOF FRAMING MEMBERS. SKYLIGHTS ARE SUPPORTED BY ROOF CURBS, CURVED TO MATCH THE ROOF FORM. FIELD VERIFY DIMENSIONS AND CONFIGURATIONS OF INSTALLED ROOF CURBS PRIOR TO FABRICATING SKYLIGHTS.

| | | | | | | | |
|------|------------|-----|------|----------|----|------|--|
| DSGN | JE CAVE | NO. | DATE | REVISION | BY | APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0" = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | WB LOVE | | | | | | |
| CHK | GB KIRSTEN | | | | | | |
| APVD | CW MASSIE | | | | | | |
| | | | | | | | |



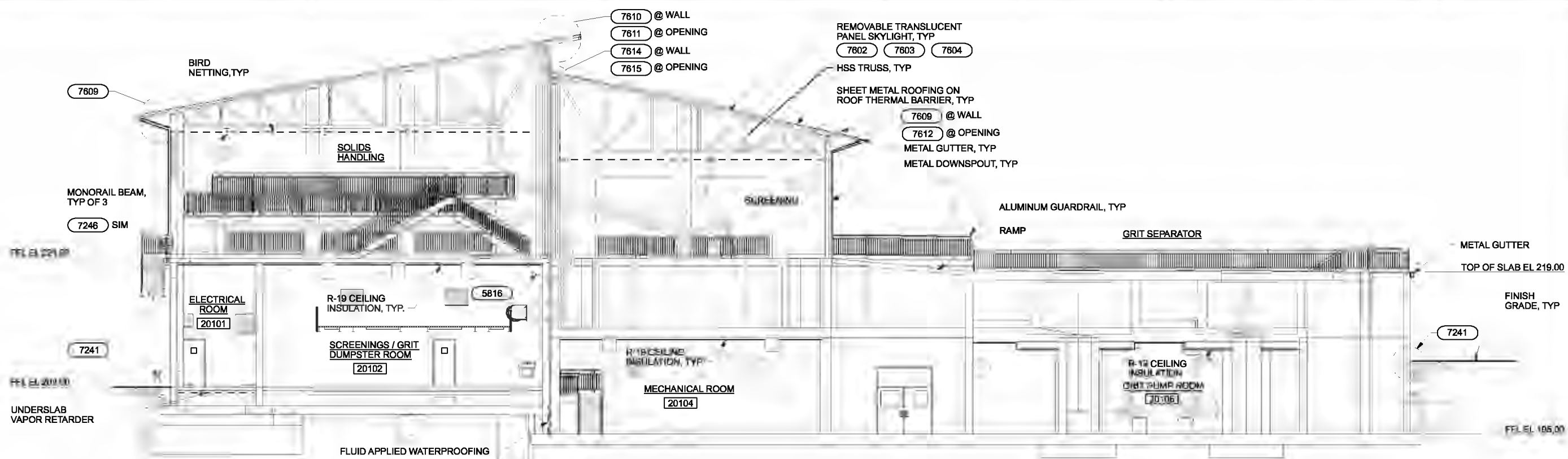
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
ARCHITECTURAL
OVERALL ROOF PLAN

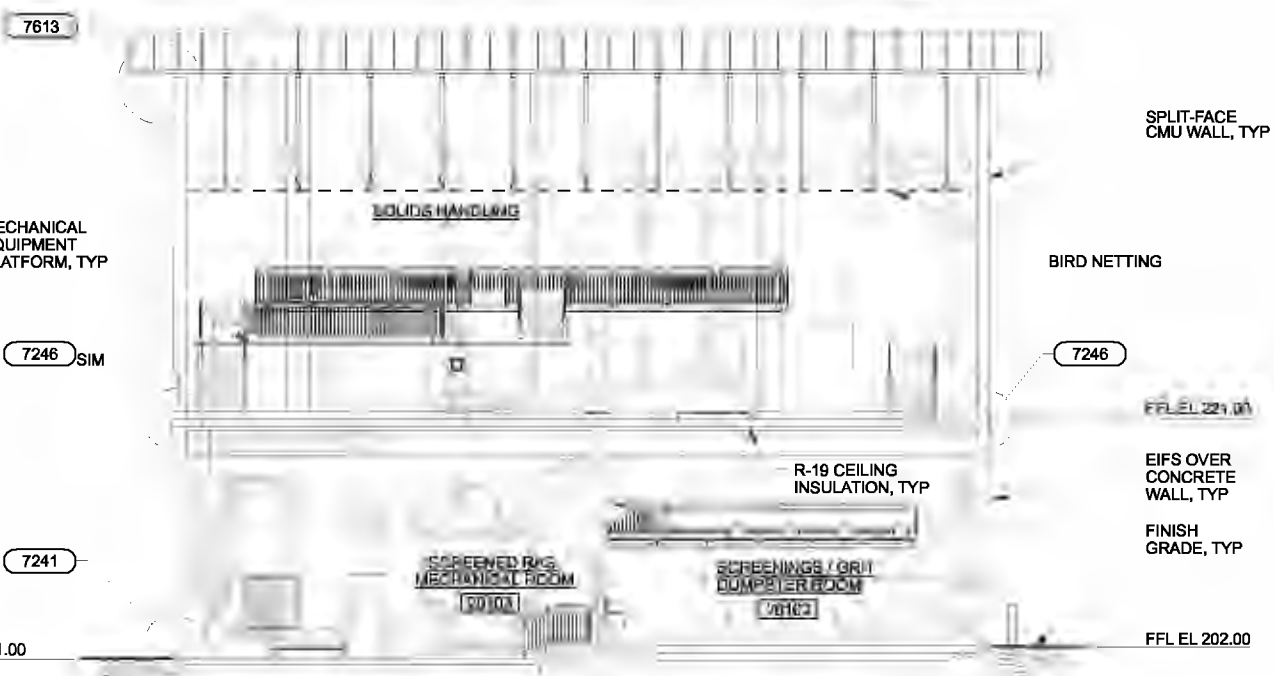
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| SHEET | 223 |
| DWG | 20-A-150 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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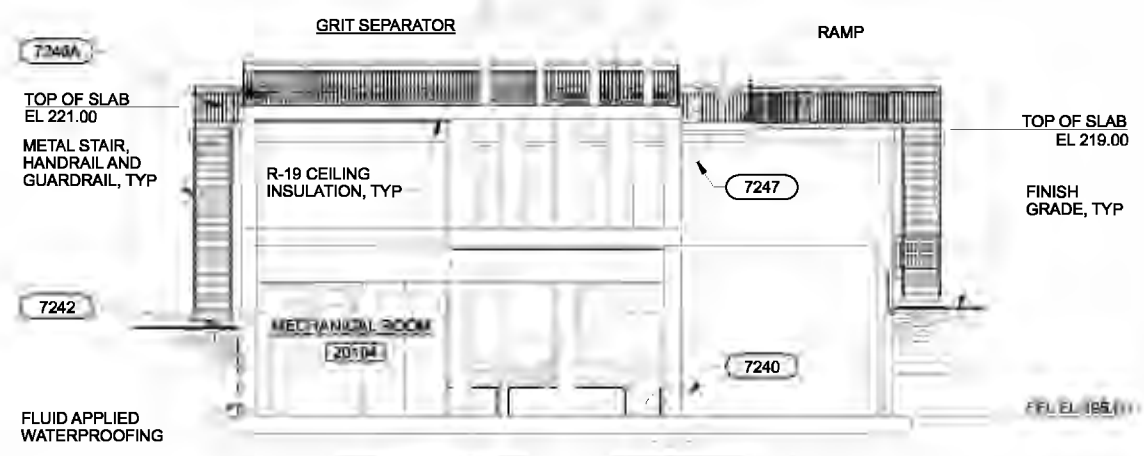
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SECTION A
1/8"=1'-0"
20-A-130,
20-A-140,
20-A-150



SECTION B
1/8"=1'-0"
20-A-130,
20-A-140,
20-A-150



SECTION C
1/8"=1'-0"
20-A-130,
20-A-140,
20-A-150

| | | | | | | | | | |
|--------|-----------|----------|------|----------|----|------|--|--|--|
| DESIGN | IE CAVE | | | | | | | | |
| DR | WELTVE | | | | | | | | |
| CHK | GEHIRSTEN | 01/20/10 | | | | | | | |
| APVD | CH/MASSE | NO. | DATE | REVISION | BY | APVD | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

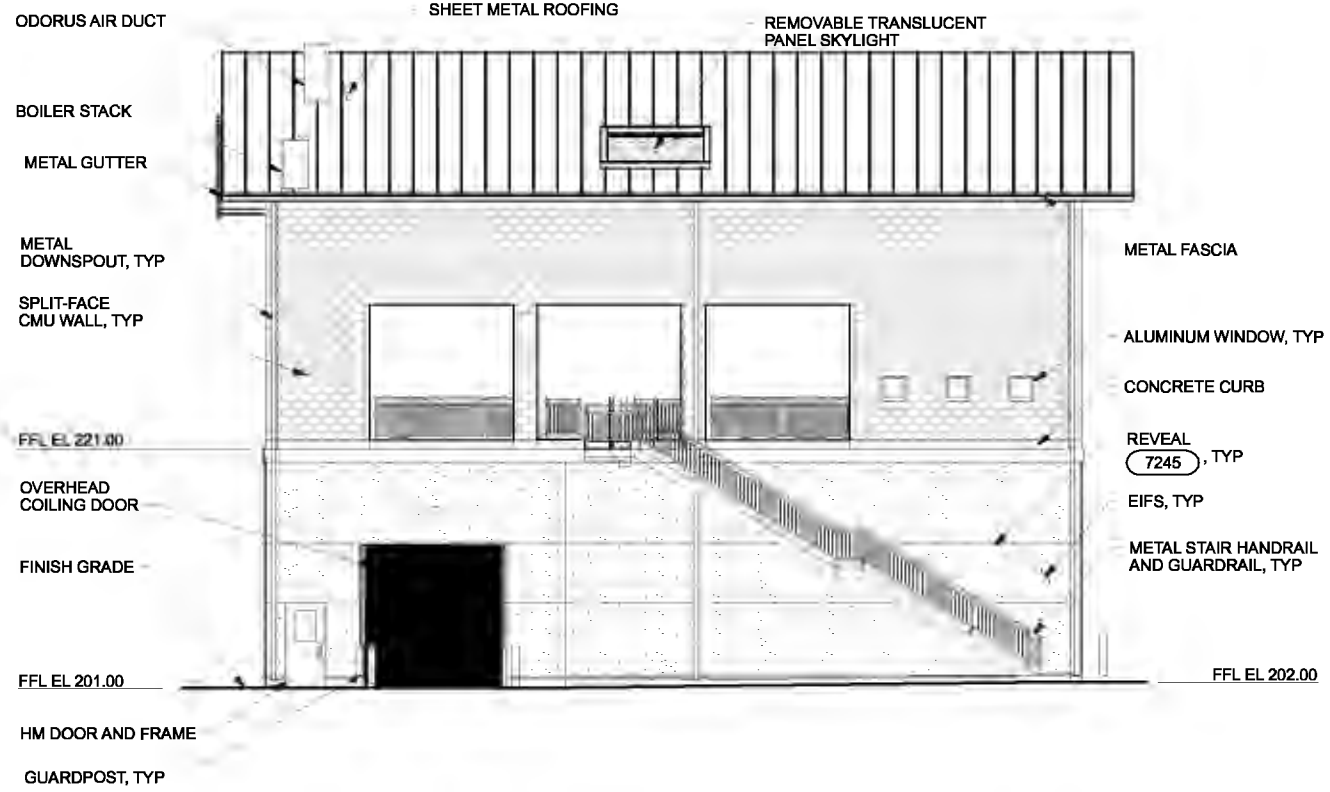
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



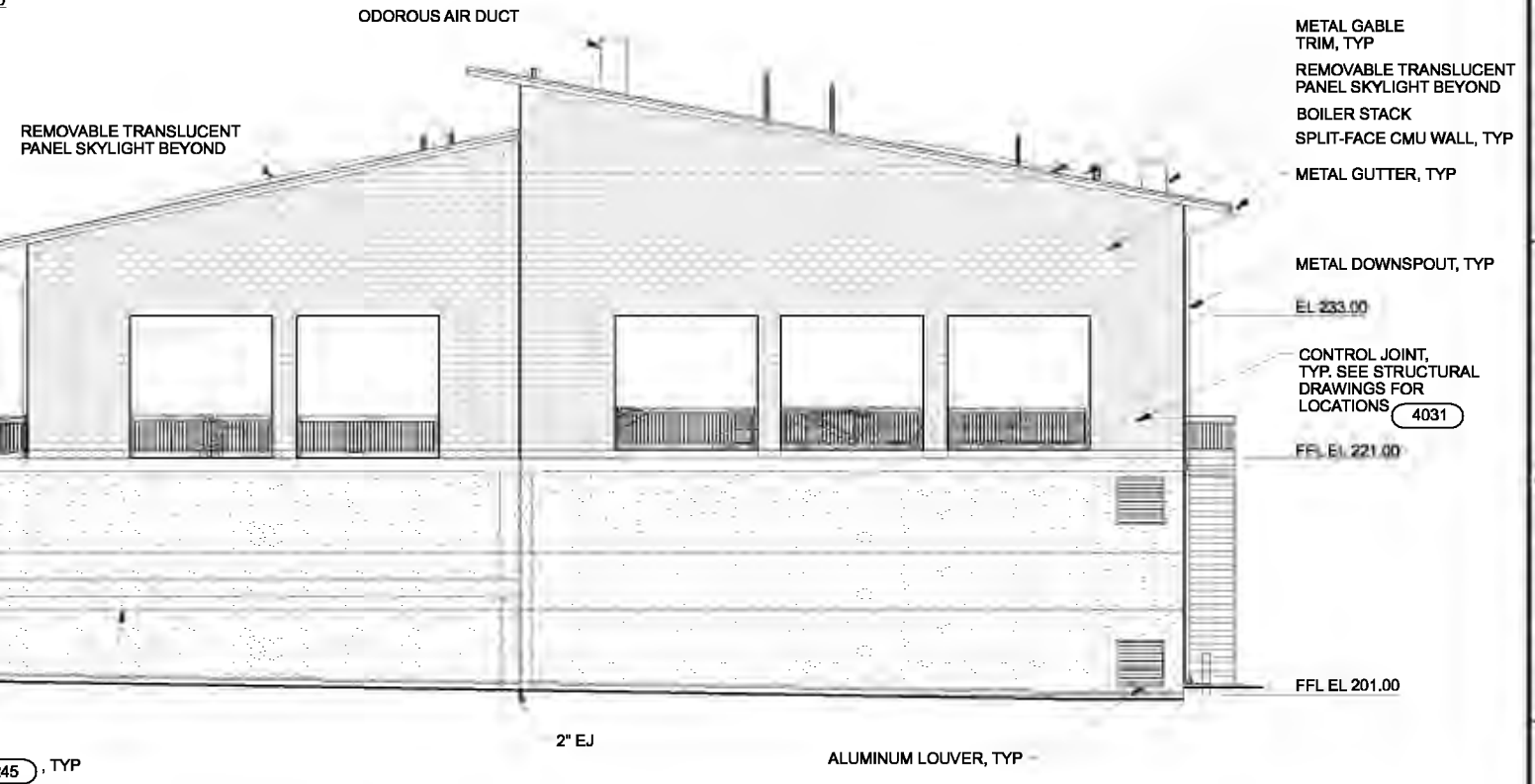
CITY OF ALBANY
WASTEWATER TREATMENT SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
ARCHITECTURAL
SECTIONS

| | |
|-------|-------------|
| SHEET | 224 |
| DWG | 20-A-201 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |



NORTH ELEVATION
1/8"=1'-0"



EAST ELEVATION
1/8"=1'-0"

| | | | | | | | | | | |
|------|------------|--|-----|------|----------|----|------|-----|-----|---|
| DSGN | JE CAVE | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | NO. | DATE | REVISION | BY | APVD | MLR | SJP | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | WB LOVE | | | | | | | | | |
| CHK | GB KIRSTEN | | | | | | | | | |
| APVD | CW MASSIE | | | | | | | | | |

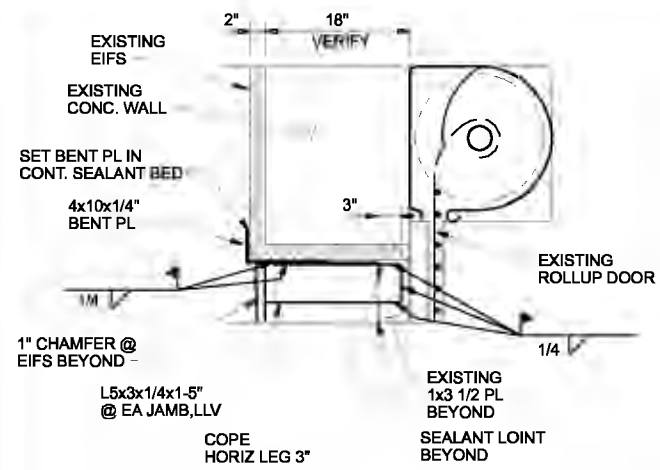


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
ARCHITECTURAL
EXTERIOR ELEVATIONS

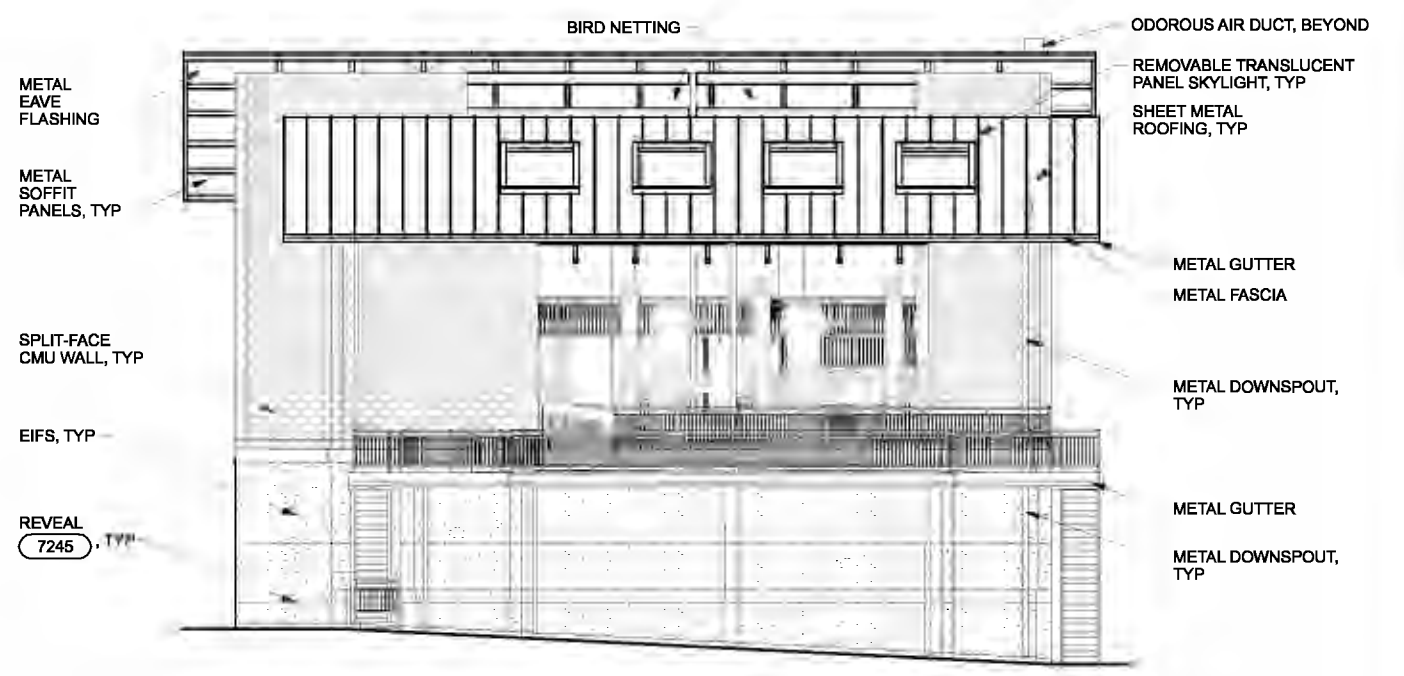
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|-------|-------------|
| SHEET | 225 |
| DWG | 20-A-301 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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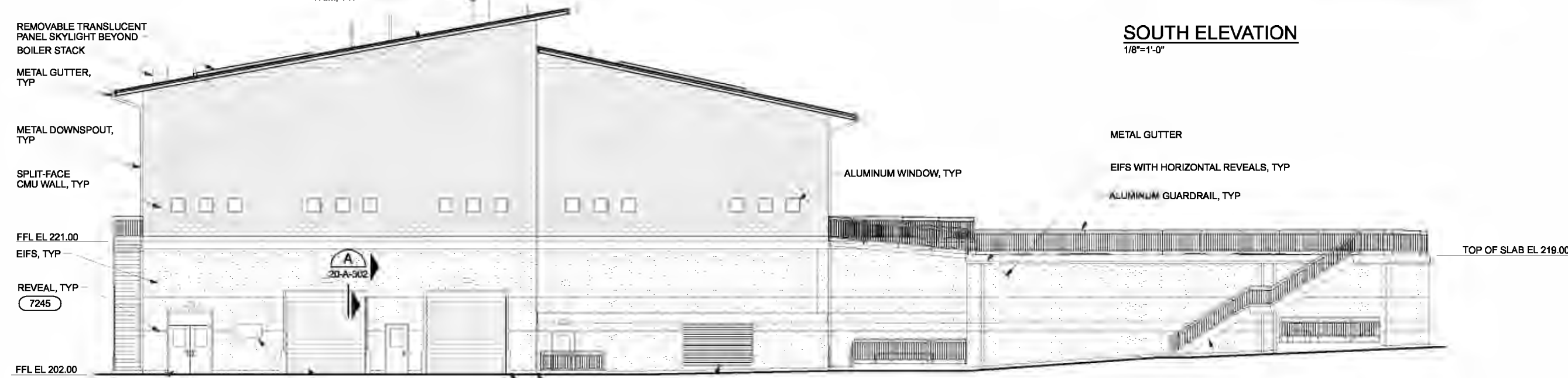


NOTE:
PAINT ALL STEEL W/ SYSTEM NO 4, IN COLOR TO MATCH EXISTING EIFS

SECTION VIEW A (8303) MODIFIED
NTS



SOUTH ELEVATION
1/8"=1'-0"



WEST ELEVATION
1/8"=1'-0"

| | | | | | | | | |
|------|------------|--|-----|------|----------|----|------|---|
| DSGN | JE CAVE | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | NO. | DATE | REVISION | BY | APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | WB LOVE | | | | | | | |
| CHK | GB KIRSTEN | | | | | | | |
| APVD | CW MASSIE | | | | | | | |
| | | | | | | | | |

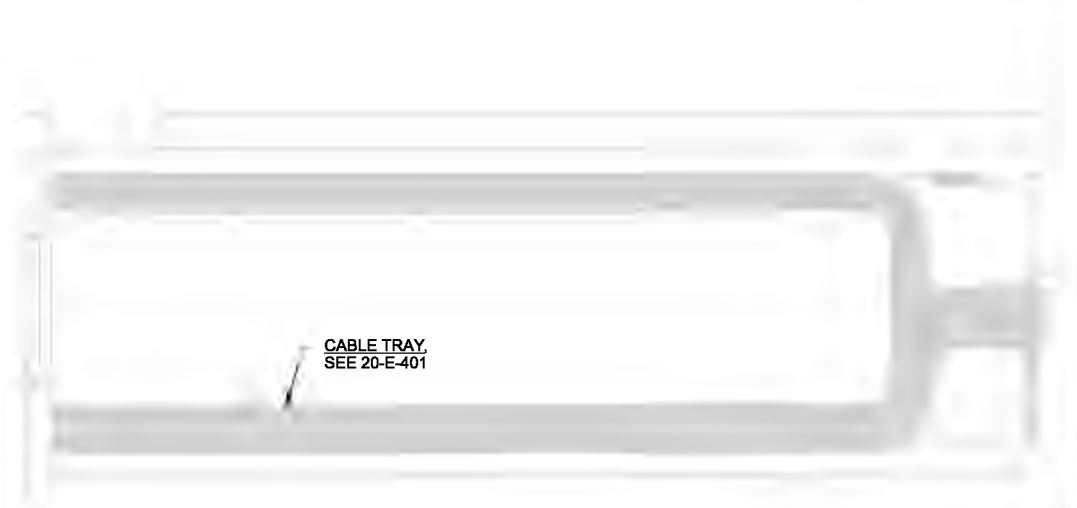
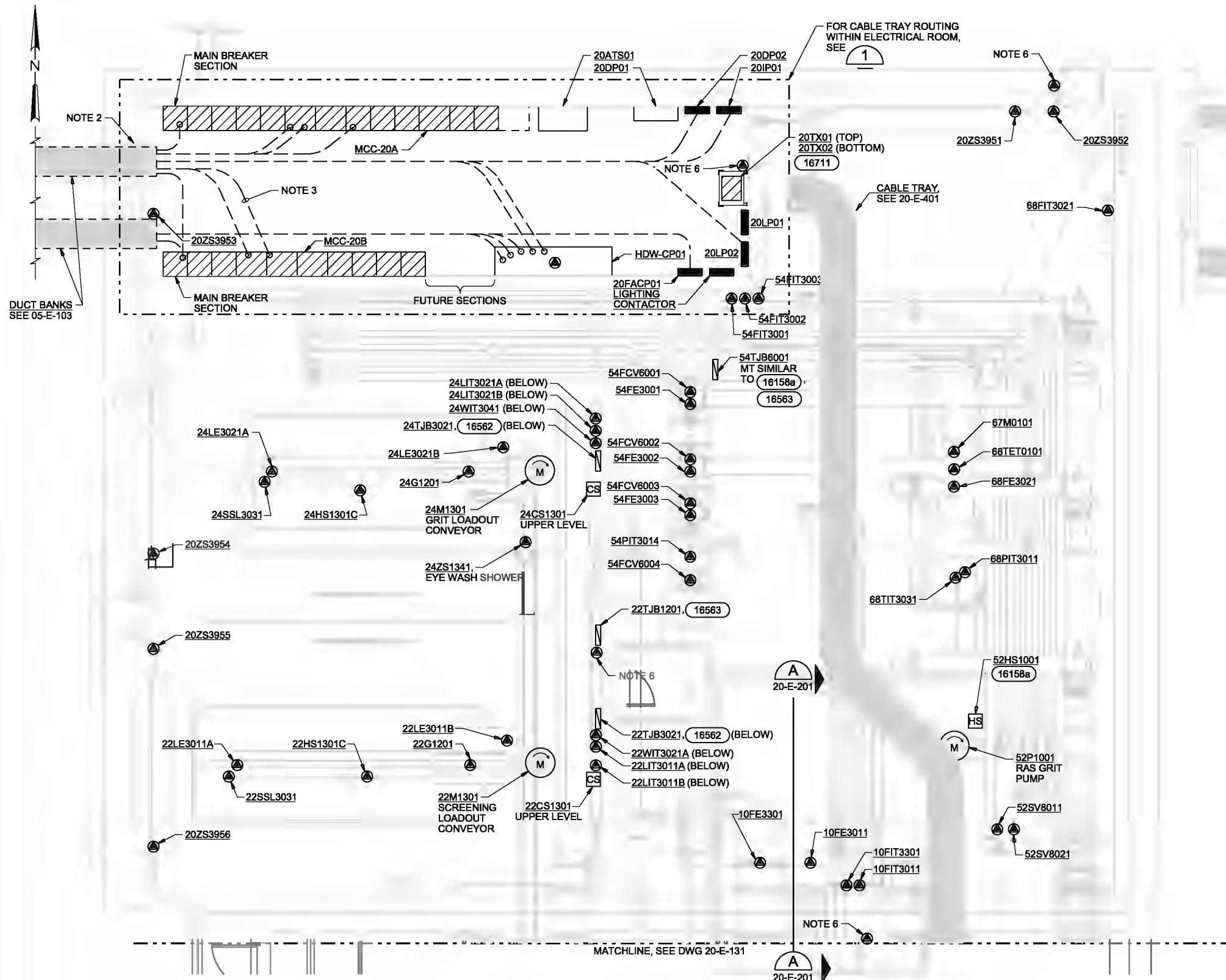


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
ARCHITECTURAL
EXTERIOR ELEVATIONS

| | |
|-------|-------------|
| SHEET | 226 |
| DWG | 20-A-302 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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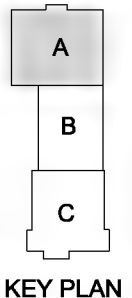


PARTIAL PLAN 1
1/4"=1'-0"

NOTES:

1. THE SCREENING/GRIT DUMPSTER ROOM IS A WET AND CORROSIVE LOCATION. EQUIPMENT SHALL BE RATED FOR USE IN THIS LOCATION AS REQUIRED IN THE SPECIFICATIONS.
2. ROUTE DUCTBANK UNDER STRUCTURAL FOOTING.
3. NOT ALL CONDUITS SHOWN FOR THE NUMBER OF, SIZE AND DESTINATION OF CONDUITS REFER TO DUCTBANK SCHEDULE.
4. RISER DIAGRAMS SHOW MULTIPLE CONDUITS OF VARYING SIZE ROUTED FROM TRAY TO HDW-CP01. CONTRACTOR MAY COMBINE DISCRETE SIGNAL CABLES IN FEWER LARGER CONDUITS AS APPROVED BY ENGINEER. DO NOT COMBINE TYPE 1 AND TYPE 3 CABLES IN THE SAME CONDUIT.
5. LOCKABLE MOTOR RATED SWITCHES SHALL BE PROVIDED FOR VALVES AND GATES WHERE SHOWN ON THE RISER DIAGRAMS. INSTALL IN ACCORDANCE 16500.
6. E-STOP FOR BOILER.

LOWER LEVEL PROCESS PLAN A
1/4"=1'-0"



KEY PLAN

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KANDIL MAESTRI, STATE OF OREGON, P.E. NO. 53785PE

| | | | | | | |
|------|------------|-----|------|----------|----|------|
| DSGN | KL MAESTRI | NO. | DATE | REVISION | BY | APVD |
| DR | GL LOVE | | | | | |
| CHK | JB MAURIS | | | | | |
| APVD | CW MASSIE | | | | | |
| NO. | DATE | | | | | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

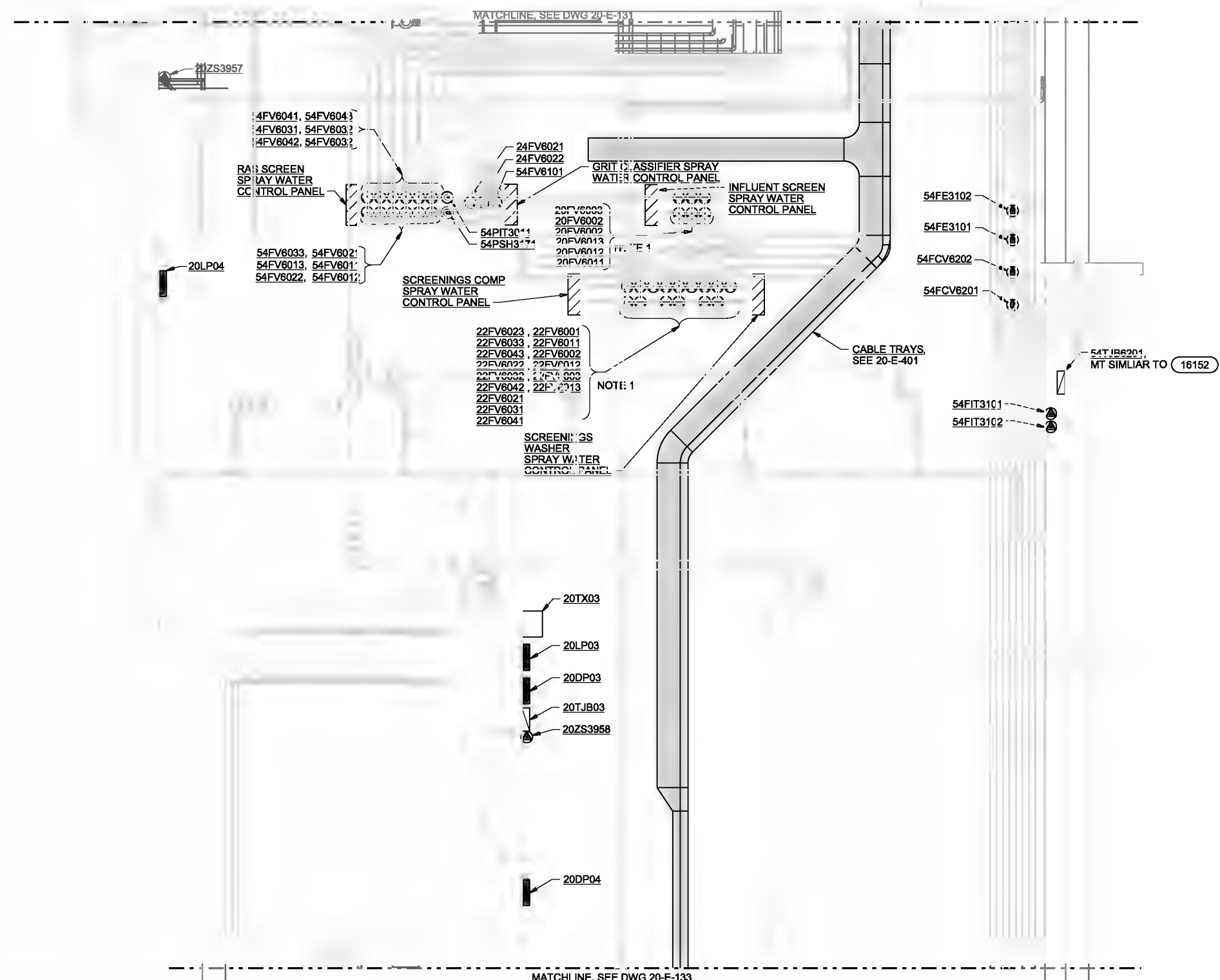
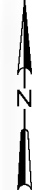


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
ELECTRICAL
LOWER LEVEL PROCESS PLAN - A
(SOLIDS HANDLING)

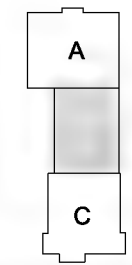
| | |
|-------|-------------|
| SHEET | 227 |
| DWG | 20-E-131 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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MATCHLINE, SEE DWG 20-E-133
LOWER LEVEL PROCESS PLAN B
 1/4"=1'-0"

- NOTE:**
1. FOR LOCATIONS OF VALVES, SEE MECHANICAL DRAWINGS.
 2. LOCKABLE MOTOR RATED SWITCHES SHALL BE PROVIDED FOR VALVES AND GATES WHERE SHOWN ON THE RISER DIAGRAMS. INSTALL IN ACCORDANCE WITH 16500.



KEY PLAN

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KANDIL MAESTRI, STATE OF OREGON, P.E. NO. 53785PE

| | | | | | |
|--------|------------|----------|------|----------|------|
| DESIGN | KL MAESTRI | | | | |
| DR | G. LOVE | | | | |
| CHK | JR MALPAS | 01/23/10 | | | |
| APPROV | CW MARRIS | NO. | DATE | REVISION | BY |
| | | | | | ARVD |

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0" = 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

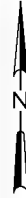


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

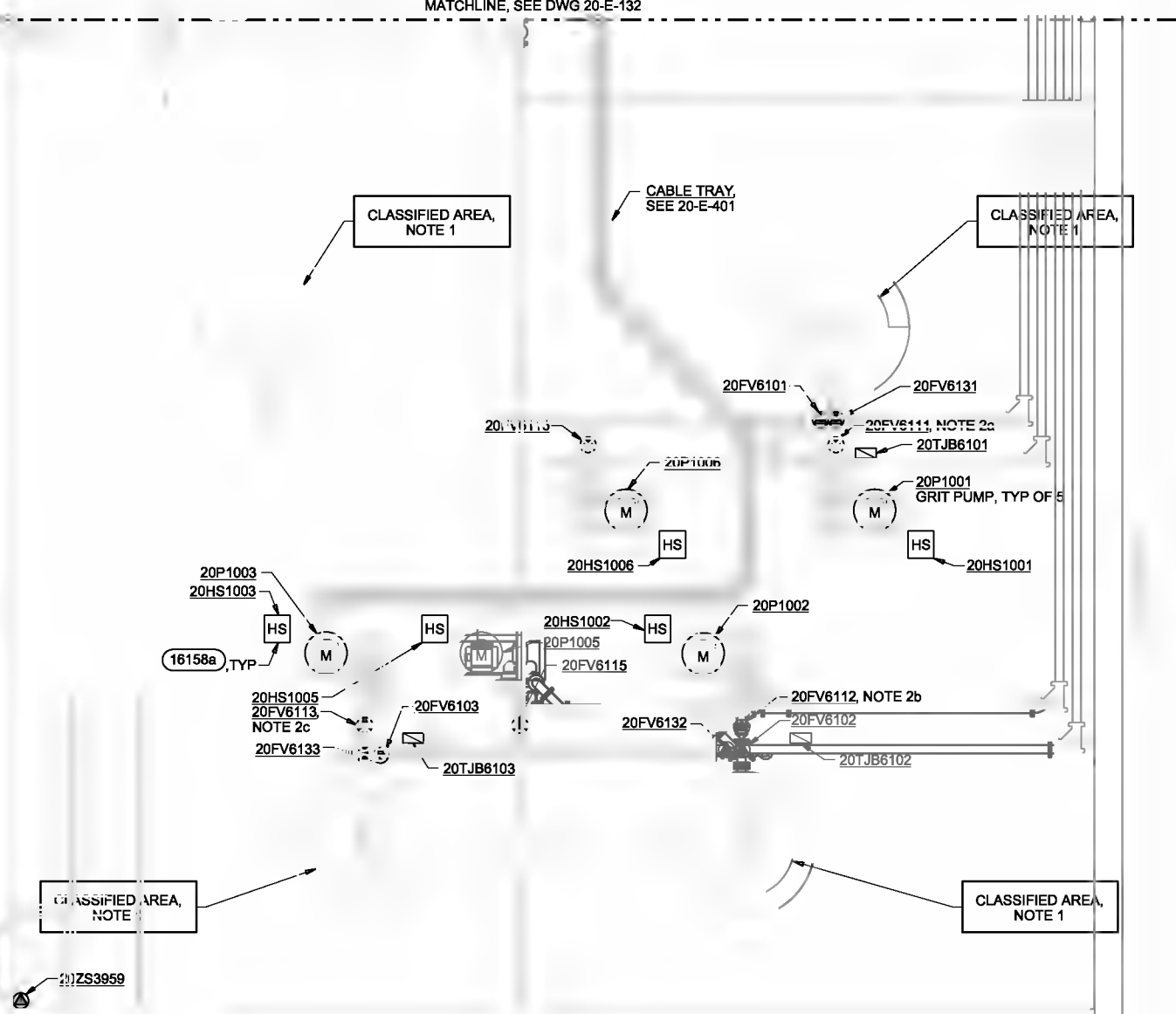
HEADWORKS
ELECTRICAL
 LOWER LEVEL PROCESS PLAN - B
 (SCREENING)

| | |
|-------|-------------|
| SHEET | 228 |
| DWG | 20-E-132 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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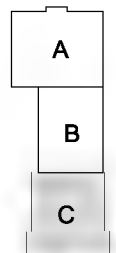


MATCHLINE, SEE DWG 20-E-132



NOTES:

1. THE AREA IN THE ENCLOSED AND VENTILATED GRIT TANKS IS A CLASS 1, DIVISION 2 AREA. PROVIDE AND INSTALL EQUIPMENT LOCATED IN THIS CLASSIFIED LOCATION PER THE NEC AND SPECIFICATIONS.
2. LOCKABLE MOTOR RATED SWITCHES SHALL BE PROVIDED FOR VALVES AND GATES WHERE SHOWN ON THE RISER DIAGRAMS. INSTALL IN ACCORDANCE (16500).
 - a. ADD TERMINAL JUNCTION BOX 20TJB6101 NEAR VALVE 20FV6111. TJB SHALL BE MOUNTED PER DETAIL 16158a.
 - b. ADD TERMINAL JUNCTION BOX 20TJB6102 NEAR VALVE 20FV6112. TJB SHALL BE MOUNTED PER DETAIL 16158a.
 - c. ADD TERMINAL JUNCTION BOX 20TJB6103 NEAR VALVE 20FV6113. TJB SHALL BE MOUNTED PER DETAIL 16158a.



KEY PLAN

LOWER LEVEL PROCESS PLAN C
 1/4"=1'-0"

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KANDIL MAESTRI, STATE OF OREGON, P.E. NO. 53785PE

| | | | | | |
|--------|-------------|-----|------|----------|----|
| DESIGN | K. MAESTRI | | | | |
| DR | G. LOVE | | | | |
| CHK | JR. MALHAIS | | | | |
| APPROV | CW. MARRIS | NO. | DATE | REVISION | BY |

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0" = 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

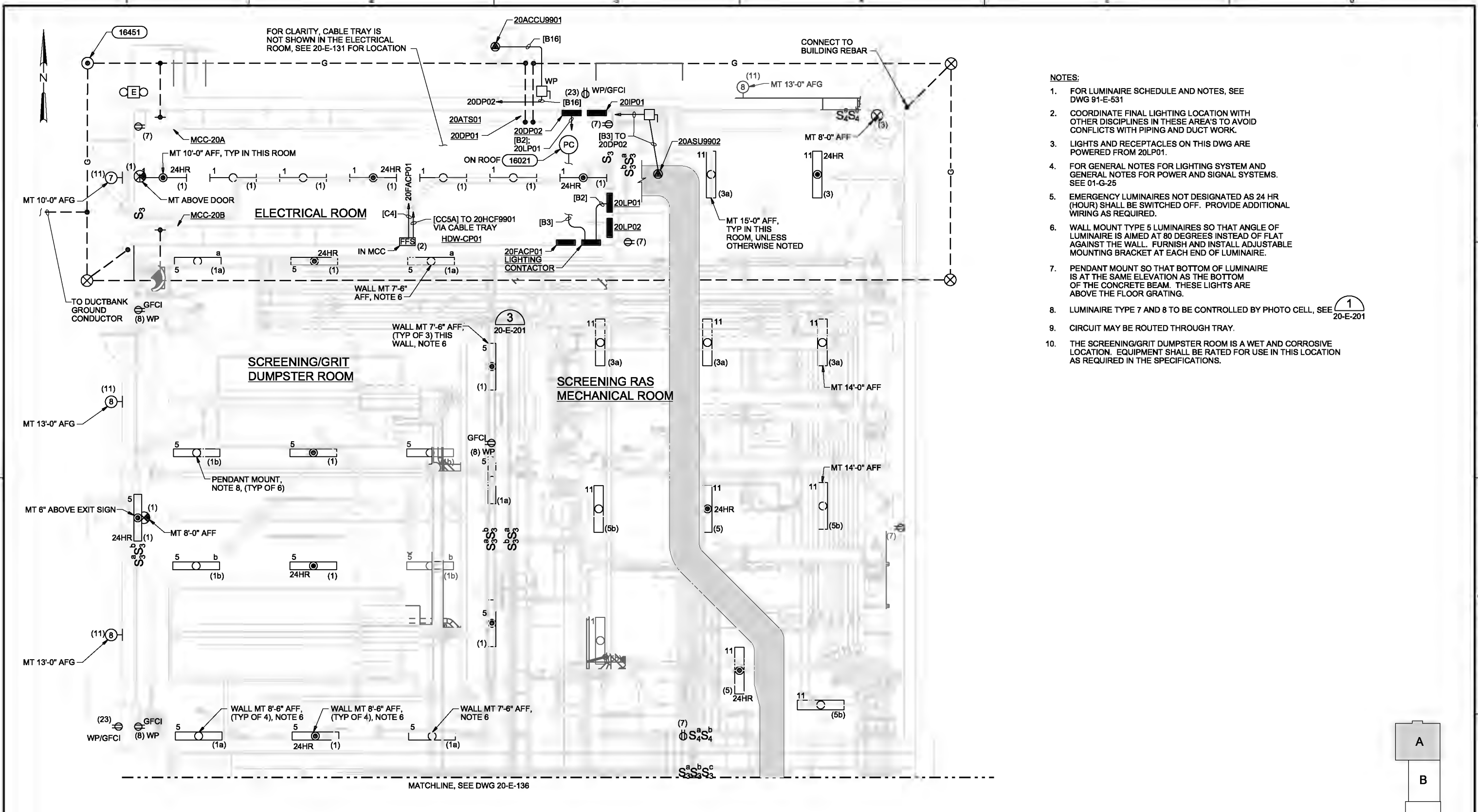


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

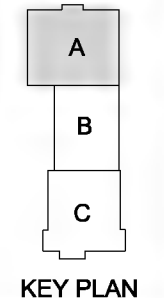
HEADWORKS
ELECTRICAL
 LOWER LEVEL PROCESS PLAN - C
 (GRIT)

| | |
|-------|-------------|
| SHEET | 229 |
| DWG | 20-E-133 |
| DATE | MAY 19 2006 |
| PROJ | 326916 |

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LOWER LEVEL FACILITY PLAN A
1/4"=1'-0"



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| | | | | | | | |
|--------------------|----------|------|----------|----|------|--|--|
| DSGN KL MAESTRI | | | | | | | |
| DR GJ LOVE | | | | | | | |
| CHK JR MAURIS | 01/23/10 | | | | | | |
| APVD CW MASSIE | NO. | DATE | REVISION | BY | APVD | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

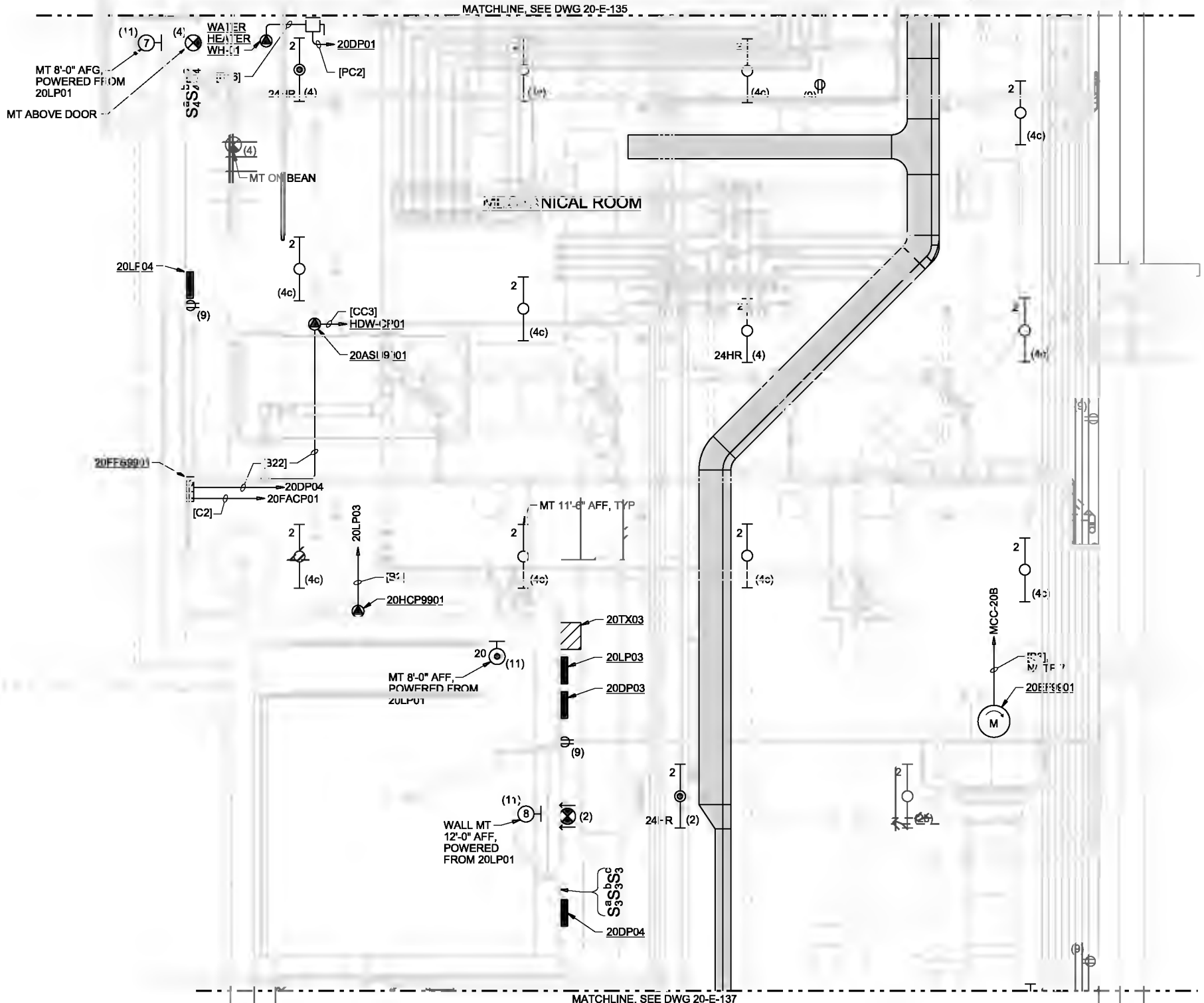
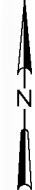


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
ELECTRICAL
LOWER LEVEL FACILITY PLAN - A
(SOLIDS HANDLING)

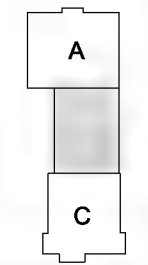
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| SHEET | 230 |
| DWG | 20-E-135 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
- FOR LUMINAIRE SCHEDULE AND NOTES, SEE DWG 91-E-531
 - COORDINATE FINAL LIGHTING LOCATION WITH OTHER DISCIPLINES IN THESE AREAS TO AVOID CONFLICTS WITH PIPING AND DUCT WORK.
 - LIGHTS AND RECEPTACLES ON THIS DRAWING ARE POWERED FROM 20LP03 UNLESS SHOWN OTHERWISE.
 - GENERAL NOTES FOR LIGHTING SYSTEMS AND GENERAL NOTES FOR POWER AND SIGNAL SYSTEMS, SEE 01-G-25.
 - EMERGENCY LUMINAIRES NOT DESIGNATED AS 24 HR (HOUR) SHALL BE SWITCHED OFF. PROVIDE ADDITIONAL WIRING AS REQUIRED.
 - LUMINAIRES TYPE 7, 8 AND 20 TO BE CONTROLLED BY PHOTO CELL, SEE 1 20-E-201
 - ROUTE CIRCUIT IN CONDUIT. DO NOT ROUTE IN CABLE TRAY.

LOWER LEVEL FACILITY PLAN B
1/4"=1'-0"



KEY PLAN

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| | | | | | |
|------|------------|----------|------|----------|----|
| DSGN | KI MAESTRI | | | | |
| DR | GJ LOVE | | | | |
| CHK | JB MAURIS | 01/23/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

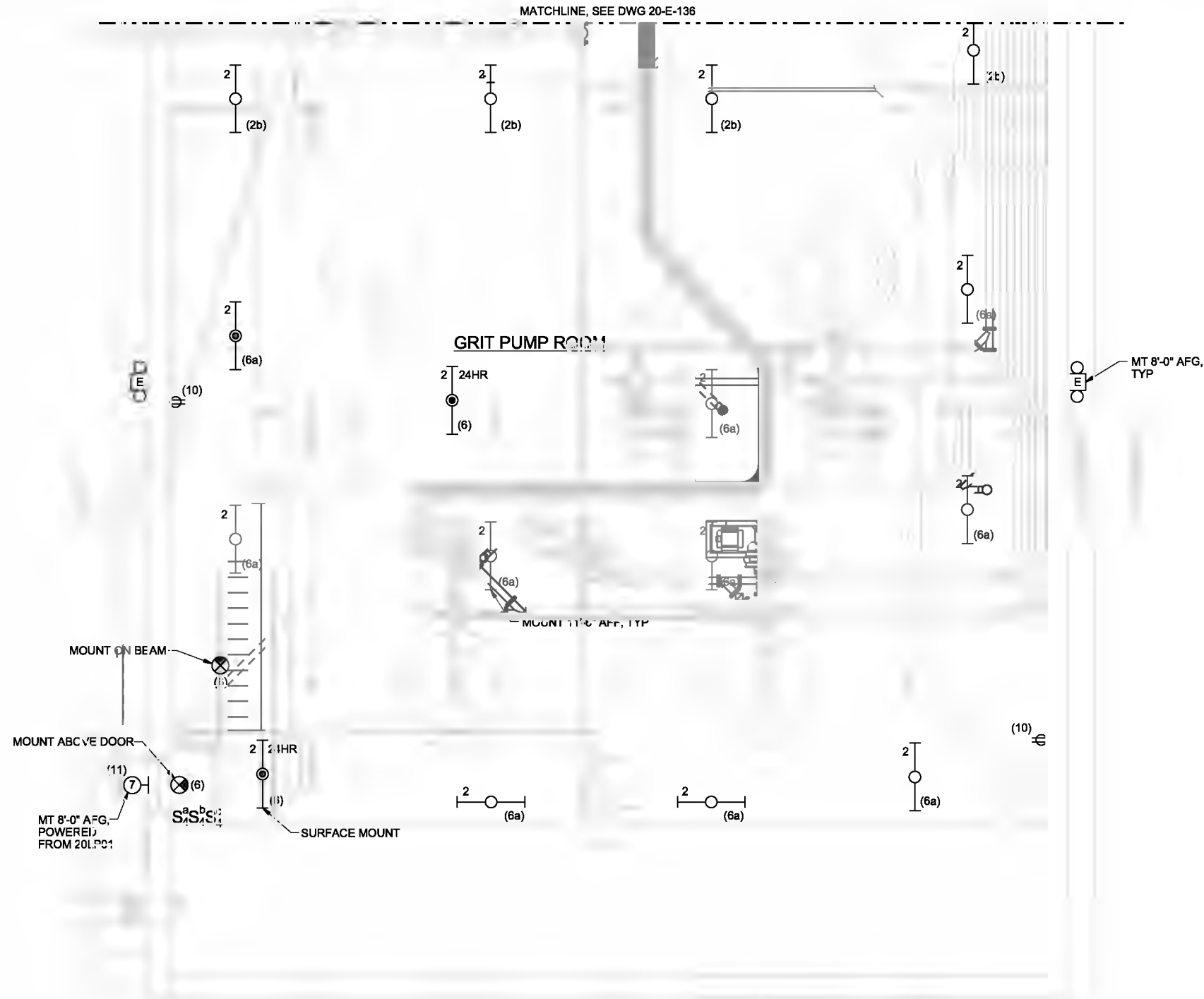
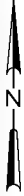


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
ELECTRICAL
LOWER LEVEL FACILITY PLAN - B
(SCREENING)

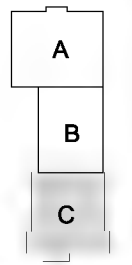
| | |
|-------|-------------|
| SHEET | 231 |
| DWG | 20-E-136 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
- FOR LUMINAIRE SCHEDULE AND NOTES, SEE DWG 91-E-531
 - COORDINATE FINAL LIGHTING LOCATION WITH OTHER DISCIPLINES IN THESE AREA'S TO AVOID CONFLICTS WITH PIPING AND DUCT WORK.
 - LIGHTS AND RECEPTACLES ON THIS DRAWING ARE POWERED FROM 20LP03 UNLESS SHOWN OTHERWISE.
 - FOR GENERAL NOTES FOR LIGHTING SYSTEM AND GENERAL NOTES FOR POWER AND SIGNAL SYSTEMS. SEE 01-G-25
 - EMERGENCY LUMINAIRES NOT DESIGNATED AS 24 HR (HOUR) SHALL BE SWITCHED OFF. PROVIDE ADDITIONAL WIRING AS REQUIRED.
 - LUMINAIRE TYPE 7 TO BE CONTROLLED BY PHOTO CELL. SEE 1 20-E-201

LOWER LEVEL FACILITY PLAN C
1/4"=1'-0"



KEY PLAN

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| | | | | | | |
|------|------------|-----|------|----------|----|------|
| DSGN | KL MAESTRI | NO. | DATE | REVISION | BY | APVD |
| DR | G. LOVE | | | | | |
| CHK | JB MAURAS | | | | | |
| APVD | CW MASSIE | | | | | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

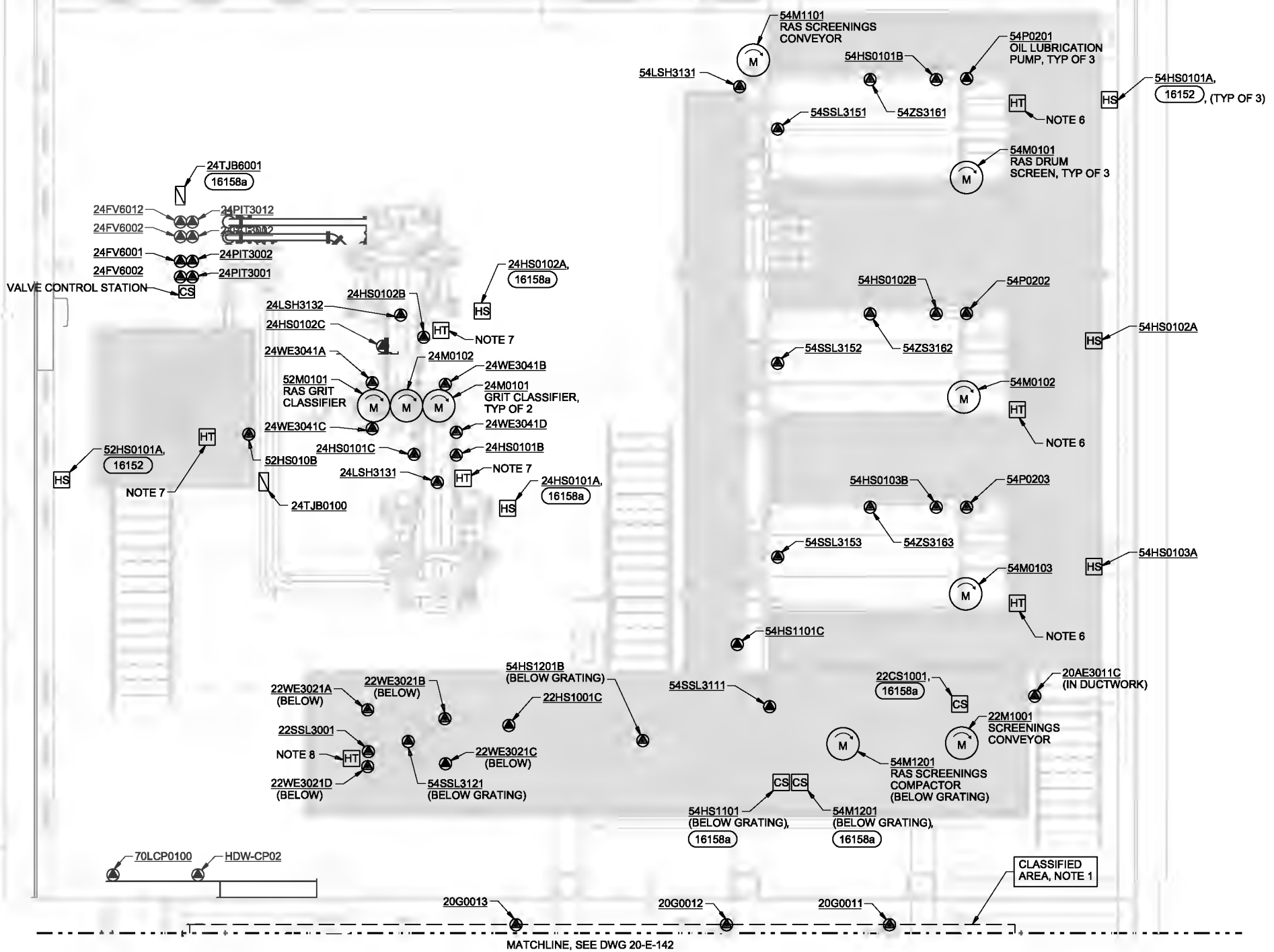
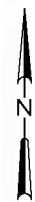


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
ELECTRICAL
LOWER LEVEL FACILITY PLAN - C
(GRIT)

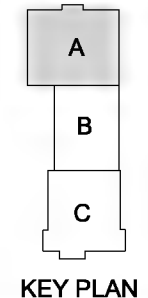
| | |
|-------|-------------|
| SHEET | 232 |
| DWG | 20-E-137 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
1. THE AREA IN THE ENCLOSED AND VENTILATED CHANNELS AND GRIT TANKS IS A CLASS I, DIVISION 2 HAZARDOUS LOCATION. THE AREA IN THE VOID SPACES AND ABOVE THE CONCRETE FLOOR ARE UNCLASSIFIED LOCATIONS. PROVIDE AND INSTALL EQUIPMENT LOCATED IN CLASSIFIED LOCATIONS PER THE NEC AND SPECIFICATIONS.
 2. THE AREA UNDER THE ENCLOSED AND VENTILATED SCREENS AND CONVEYORS IS A CLASS I, DIVISION 2 AREA. PROVIDE AND INSTALL EQUIPMENT LOCATED IN THIS CLASSIFIED LOCATION PER THE NEC AND SPECIFICATIONS.
 3. JUNCTION BOXES SHOWN ON THE RISER DIAGRAMS SHALL BE FIELD LOCATED BY THE CONTRACTOR.
 4. ROUTE CONDUITS DOWN TO LOWER LEVEL THROUGH SLAB. DO NOT ROUTE THROUGH BEAMS OR COLUMNS UNLESS SPECIFICALLY CALLED OUT ON PLANS. ROUTE CONDUIT EXPOSED AT LOWER LEVEL TO EQUIPMENT OR CABLE TRAYS AS SHOWN ON RISER DIAGRAMS.
 5. LOCKABLE MOTOR RATED SWITCHES SHALL BE PROVIDED FOR VALVES AND GATES WHERE SHOWN ON THE RISER DIAGRAMS. INSTALL IN ACCORDANCE (16500).
 6. CIRCUIT 20LP02-6 SHALL BE USED FOR ALL HEAT TRACING ASSOCIATED WITH THE RAS DRUM SCREENS. EXTEND TO EACH PIPE THAT REQUIRES HEAT TRACING IN ACCORDANCE WITH SPECIFICATIONS SECTION 15085 AND 16055.
 7. CIRCUIT 20LP02-8 SHALL BE USED FOR ALL HEAT TRACING ASSOCIATED WITH THE CLASSIFIERS. EXTEND TO EACH PIPE THAT REQUIRES HEAT TRACING IN ACCORDANCE WITH SPECIFICATIONS SECTION 15095 AND 16055.
 8. CIRCUIT 20LP02-24 SHALL BE USED FOR ALL HEAT TRACING ASSOCIATED WITH THE SCREENING CONVEYOR. EXTEND TO EACH PIPE THAT REQUIRES HEAT TRACING IN ACCORDANCE WITH SPECIFICATIONS SECTION 15085 AND 16055.

UPPER LEVEL PROCESS PLAN A
1/4"=1'-0"



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| | | | | | |
|------|------------|----------|------|----------|----|
| DSGN | KI MAESTRI | | | | |
| DR | GJ LOVE | | | | |
| CHK | JB MAURAS | 01/23/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

VERIFY SCALE
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0" = 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



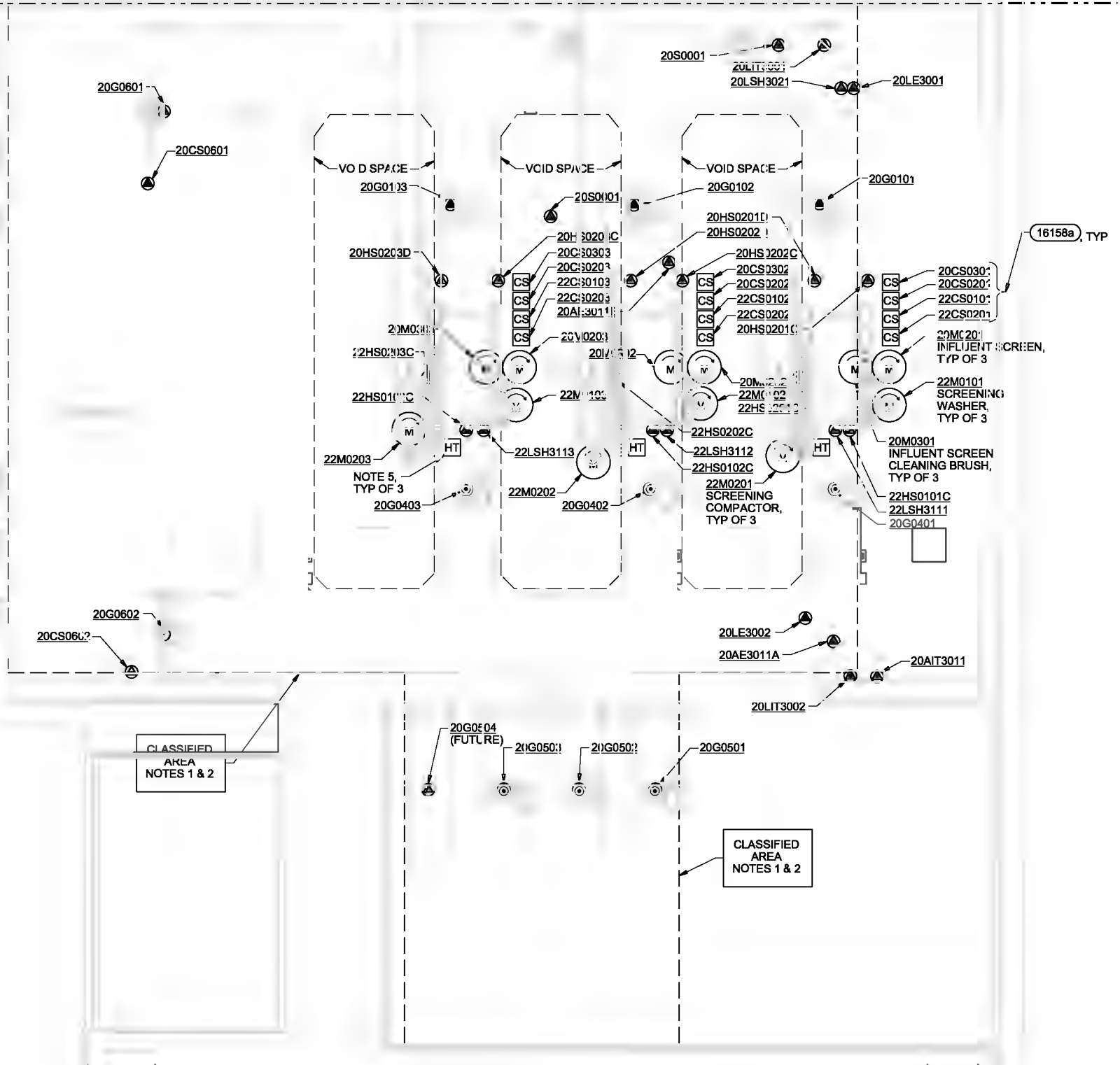
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
ELECTRICAL
UPPER LEVEL PROCESS PLAN - A
(SOLIDS HANDLING)

| | |
|-------|-------------|
| SHEET | 233 |
| DWG | 20-E-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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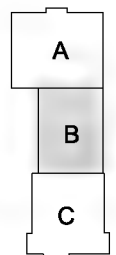
MATCHLINE, SEE DWG 20-E-141



NOTES:

1. THE AREA IN THE ENCLOSED AND VENTILATED CHANNELS AND GRIT TANKS IS A CLASS I, DIVISION 2 HAZARDOUS LOCATION. THE AREA IN THE VOID SPACES AND ABOVE THE CONCRETE FLOOR ARE UNCLASSIFIED LOCATIONS. PROVIDE AND INSTALL EQUIPMENT LOCATED IN CLASSIFIED LOCATIONS PER THE NEC AND SPECIFICATIONS.
2. THE AREA UNDER THE ENCLOSED AND VENTILATED SCREENS AND CONVEYORS IS A CLASS I, DIVISION 2 AREA. PROVIDE AND INSTALL EQUIPMENT LOCATED IN THIS CLASSIFIED LOCATION PER THE NEC AND SPECIFICATIONS.
3. LOCKABLE MOTOR RATED SWITCHES SHALL BE PROVIDED FOR VALVES AND GATES WHERE SHOWN ON THE RISER DIAGRAMS. INSTALL IN ACCORDANCE WITH (16500).
4. CONDUITS SHALL BE ROUTED CONCEALED THROUGH CONCRETE COLUMNS AND WALLS OR IN VOID SPACES TO THE FLOOR BELOW. DO NOT ROUTE CONDUITS THROUGH WATER CARRYING CHANNELS.
5. CIRCUITS 20LP02-18, 20, 22 SHALL BE USED FOR ALL HEAT TRACING ASSOCIATED WITH THE INFLUENT SCREENS 1, 2 AND 3 RESPECTIVELY. EXTEND TO EACH PIPE THAT REQUIRES HEAT TRACING IN ACCORDANCE WITH SPECIFICATIONS SECTION 15085 AND 16055.

UPPER LEVEL PROCESS PLAN B
1/4"=1'-0"



KEY PLAN

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KANDIL MAESTRI, STATE OF OREGON, P.E. NO. 53785PE

| | | | | | | |
|----------|------------|-----|------|----------|----|----------|
| DESIGN | KL MAESTRI | NO. | DATE | REVISION | BY | APPROVED |
| DR | G. LOVE | | | | | |
| CHK | JR MALIBAS | | | | | |
| APPROVED | CW MAESTRI | | | | | |

VERIFY SCALE
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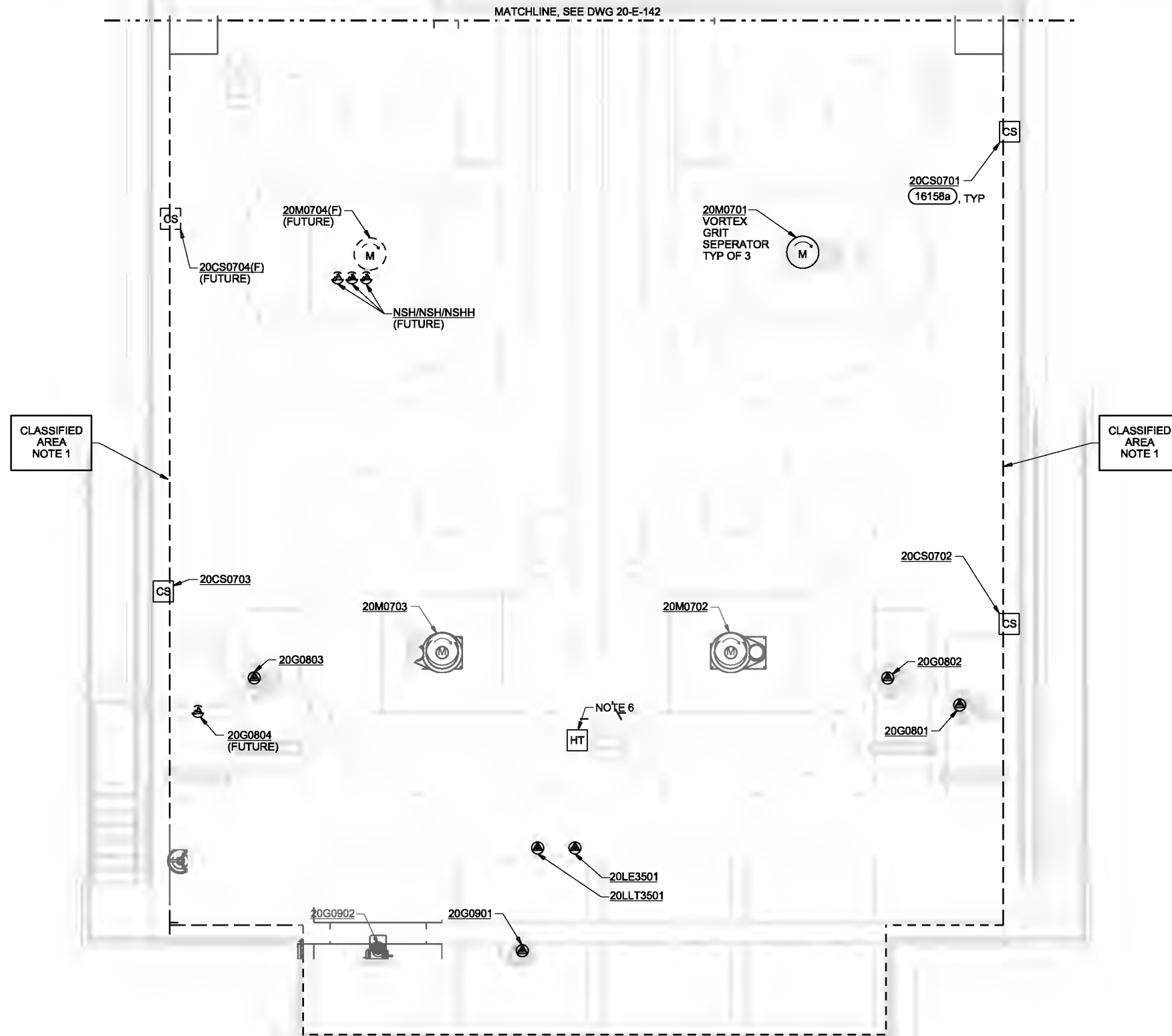
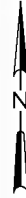


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS BUILDING
ELECTRICAL
UPPER LEVEL PROCESS PLAN - B
(SCREENING)

| | |
|-------|-------------|
| SHEET | 234 |
| DWG | 20-E-142 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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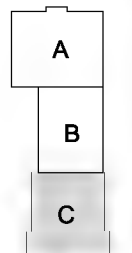
NOTES:

1. THE AREA IN THE ENCLOSED VENTILATED CHANNELS AND GRIT TANKS IS A CLASS I, DIVISION 2 HAZARDOUS LOCATION. THE AREA IN THE VOID SPACES AND ABOVE THE CONCRETE FLOOR ARE UNCLASSIFIED LOCATIONS. PROVIDE AND INSTALL EQUIPMENT LOCATED IN CLASSIFIED LOCATIONS PER THE NEC AND SPECIFICATIONS.
2. (F) DENOTES FUTURE EQUIPMENT. STUB ROUTE CONCEALED CONDUIT FOR FUTURE EQUIPMENT. CAP AT BOTH ENDS.
3. CONDUITS SHALL BE ROUTED CONCEALED THROUGH CONCRETE COLUMNS AND WALLS OR IN VOID SPACES TO THE FLOOR BELOW. DO NOT ROUTE CONDUITS THROUGH WATER CARRYING CHANNELS.
4. LOCKABLE MOTOR RATED SWITCHES SHALL BE PROVIDED FOR VALVES AND GATES WHERE SHOWN ON THE RISER DIAGRAMS. INSTALL IN ACCORDANCE. (16500)
5. ROUTE CONDUITS THROUGH SLAB TO LOWER LEVEL. PROVIDE WATER TIGHT SEALS SO NO FLUID LEAKS TO THE ROOM BELOW.
6. CIRCUIT 20LP02-14 SHALL BE USED FOR ALL HEAT TRACING ASSOCIATED WITH HOSE BIBS ON THE UPPER LEVEL OF THE HEADWORKS FACILITY. REFER TO THE MECHANICAL AND PLUMBING PLANS FOR ALL LOCATIONS OF HOSE BIBS. EXTEND CIRCUIT TO EACH LINE THAT REQUIRES HEAT TRACING. REFER TO SPECIFICATIONS SECTION 15085 AND 16055 FOR ADDITIONAL INFORMATION.
7. CONDUITS SHALL BE ROUTED CONCEALED THROUGH CONCRETE COLUMNS AND WALLS OR IN VOID SPACES TO THE FLOOR BELOW. DO NOT ROUTE CONDUITS THROUGH WATER CARRYING CHANNELS.

CLASSIFIED AREA NOTE 1

CLASSIFIED AREA NOTE 1

UPPER LEVEL PROCESS PLAN C
1/4"=1'-0"



KEY PLAN

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|------|------------|----------|------|----------|----|
| DSGN | KI MAESTRI | | | | |
| DR | GJ LOVE | | | | |
| CHK | JB MAJRAIS | 01/23/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

VERIFY SCALE
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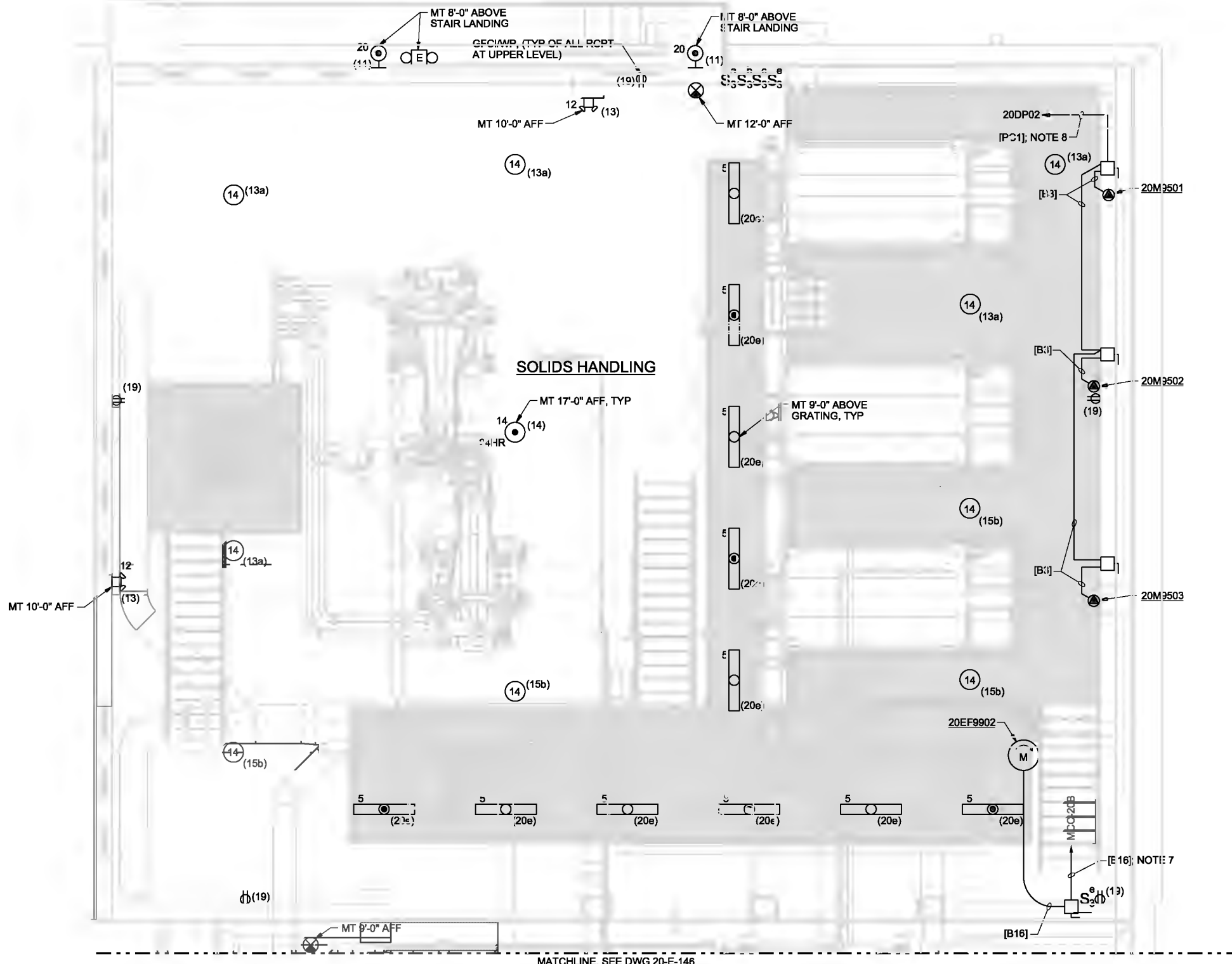
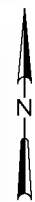


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
ELECTRICAL
UPPER LEVEL PROCESS PLAN - C
(GRIT)

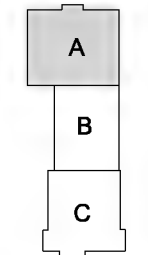
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|-------|-------------|
| SHEET | 235 |
| DWG | 20-E-143 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
- FOR LUMINAIRE SCHEDULE AND NOTES, SEE DWG 91-E-531
 - COORDINATE FINAL LIGHTING LOCATION WITH OTHER DISCIPLINES IN THESE AREAS TO AVOID CONFLICTS WITH PIPING AND DUCT WORK.
 - LIGHTS AND RECEPTACLES ON THIS DWG ARE POWERED FROM 20LP01.
 - FOR GENERAL NOTES FOR LIGHTING SYSTEMS AND GENERAL NOTES FOR POWER AND SIGNAL SYSTEMS. SEE 01-G-25
 - EMERGENCY LUMINAIRES NOT DESIGNATED AS 24 HR (HOUR) SHALL BE SWITCHED OFF. PROVIDE ADDITIONAL WIRING AS REQUIRED.
 - LUMINAIRE TYPE 20 TO BE CONTROLLED BY PHOTO CELL, SEE 1 20-E-201
 - ROUTE IN CONDUIT TO MCC. DO NOT ROUTE IN CABLE TRAY.
 - CIRCUIT MAY BE ROUTED IN CABLE TRAY

UPPER LEVEL FACILITY PLAN A
1/4"=1'-0"



KEY PLAN

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| DSGN | KL MAESTRI | | | | |
| DR | GU LOVE | | | | |
| CHK | JB MAURAS | 01/23/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

VERIFY SCALE
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0 1"
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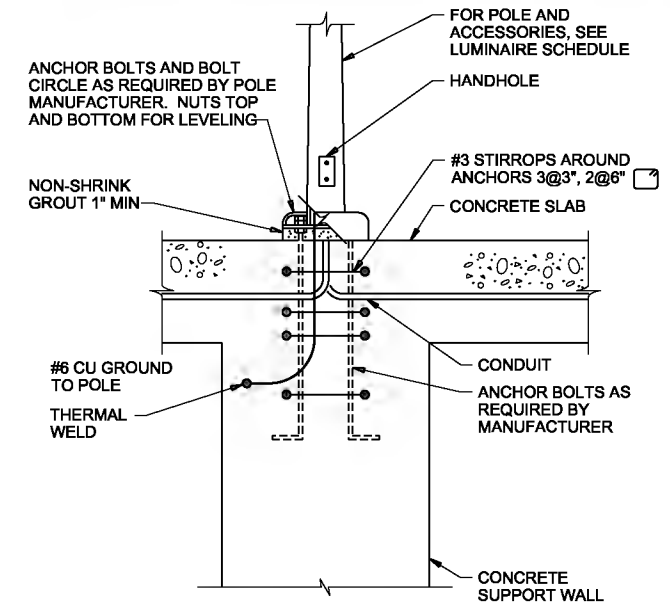
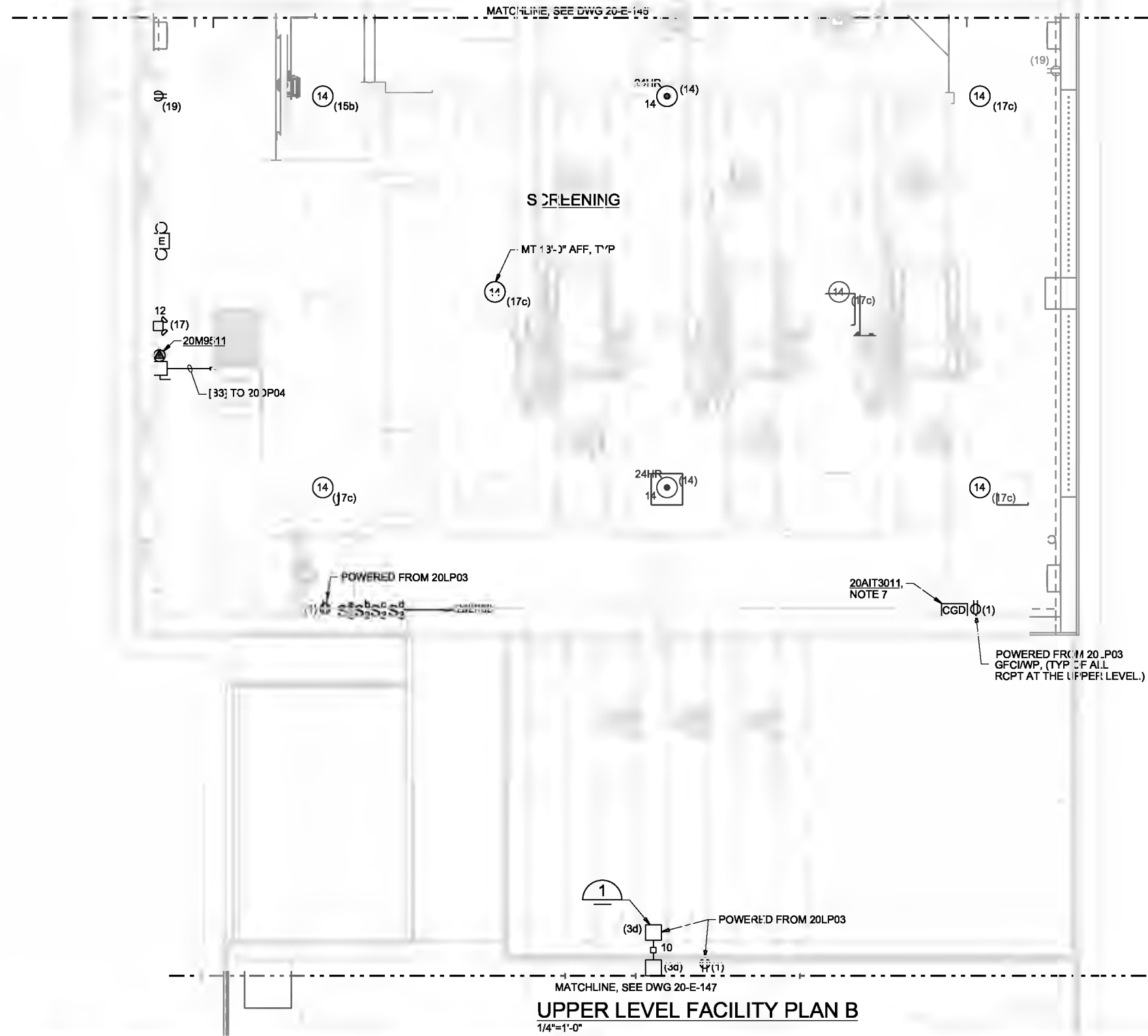
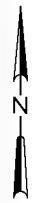


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
ELECTRICAL
UPPER LEVEL FACILITY PLAN - A
(SOLIDS HANDLING)

| | |
|-------|-------------|
| SHEET | 236 |
| DWG | 20-E-145 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

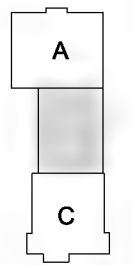
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- NOTES:
1. USE STAINLESS STEEL NUTS AND LOCKWASHERS.
 2. CONDUITS SHALL BE STUBBED UP WITHIN SIX INCHES OF POLE.

TYPICAL POST LIGHT IN SUPPORT WALL 1
NTS

- NOTES:
1. FOR LUMINAIRE SCHEDULE AND NOTES, SEE DWG 91-E-631.
 2. COORDINATE FINAL LIGHTING LOCATION WITH OTHER DISCIPLINES IN THESE AREAS TO AVOID CONFLICTS WITH PIPING AND DUCT WORK.
 3. CIRCUIT NUMBERS AND RECEPTACLES IN PARENTHESIS INDICATES CIRCUIT IN PANEL 20LP01 UNLESS SHOWN OTHERWISE.
 4. FOR GENERAL NOTES FOR LIGHTING SYSTEMS AND GENERAL NOTES FOR POWER AND SIGNAL SYSTEMS, SEE 01-G-25
 5. EMERGENCY LUMINAIRES NOT DESIGNATED AS 24 HR (HOUR) SHALL BE SWITCHED OFF. PROVIDE ADDITIONAL WIRING AS REQUIRED.
 7. ONE TRANSMITTER WITH THREE SIGNALS FROM THREE DETECTOR UNITS.



KEY PLAN

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| | | | | | | |
|------|------------|-----|------|----------|----|------|
| DSGN | KL MAESTRI | NO. | DATE | REVISION | BY | APVD |
| DR | G. LOVE | | | | | |
| CHK | JB MAURAS | | | | | |
| APVD | CW MASSIE | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

| | |
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| GRW | KLM |
| BY | APVD |

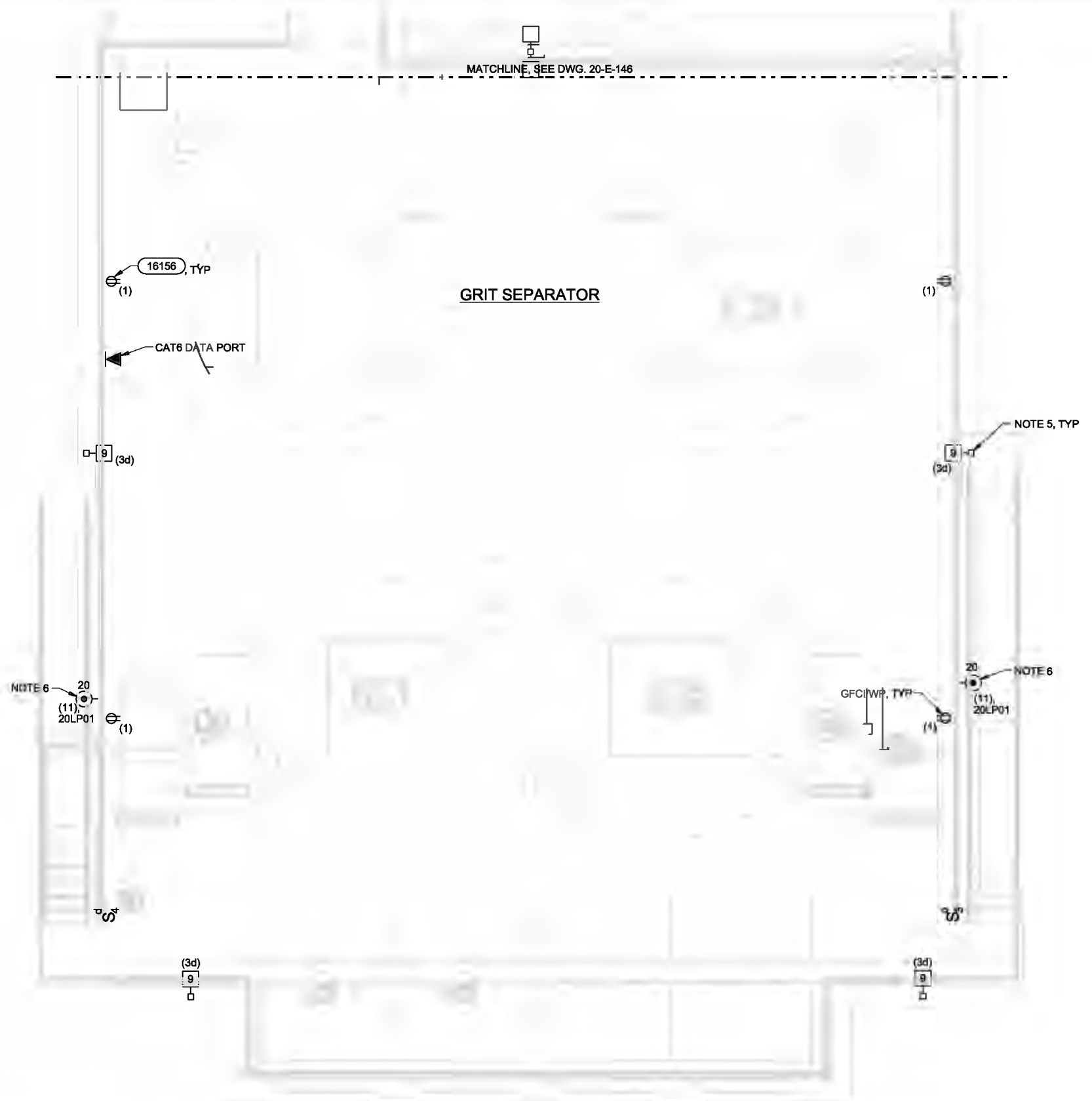
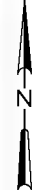


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
ELECTRICAL
UPPER LEVEL FACILITY PLAN - B
(SCREENING)

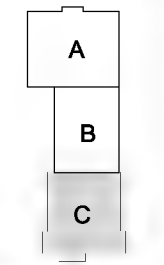
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|-------|-------------|
| SHEET | 237 |
| DWG | 20-E-146 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
1. FOR LUMINAIRE SCHEDULE AND NOTES, SEE DWG 91-E-531
 2. COORDINATE FINAL LIGHTING LOCATION WITH OTHER DISCIPLINES IN THESE AREAS TO AVOID CONFLICTS WITH PIPING AND DUCT WORK.
 3. CIRCUIT NUMBERS AND RECEPTACLES IN PARENTHESIS INDICATES CIRCUIT IN PANEL 20LP03, UNO.
 4. FOR GENERAL NOTES FOR LIGHTING SYSTEMS AND GENERAL NOTES FOR POWER AND SIGNAL SYSTEMS. SEE 01-G-25
 5. FOR MOUNTING DETAIL OF TYPE 9 LUMINAIRES. SEE DRAWING 91-E-532 (16221)
 6. MOUNT LIGHT AS HIGH AS POSSIBLE ABOVE STAIR LANDING. LIGHTS CONTROLLED BY PHOTOCELL.

UPPER LEVEL FACILITY PLAN C
1/4"=1'-0"



KEY PLAN

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| | | | | | |
|------|------------|----------|------|----------|----|
| DSGN | KL MAESTRI | | | | |
| DR | G. LOVE | | | | |
| CHK | JB MAURAS | 01/23/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

VERIFY SCALE
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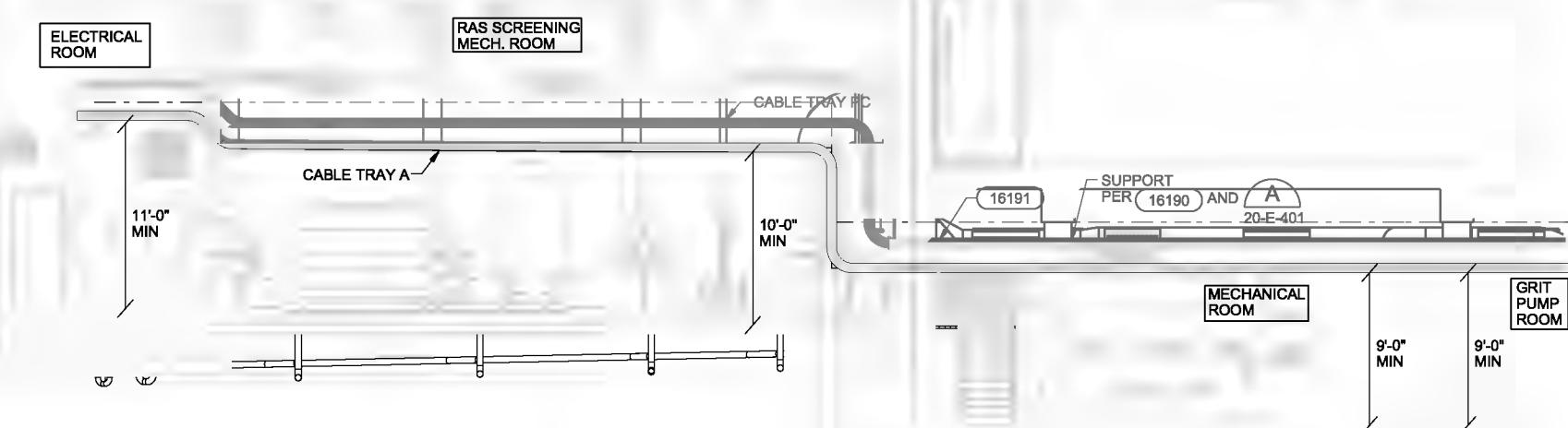
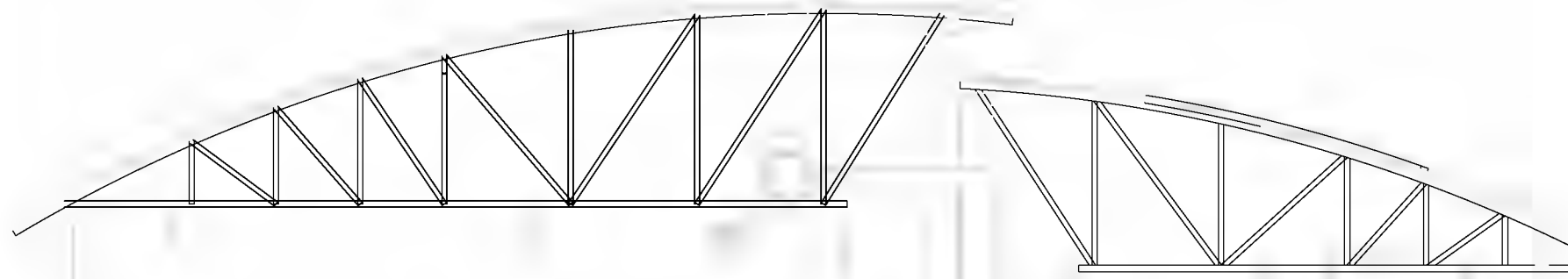


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

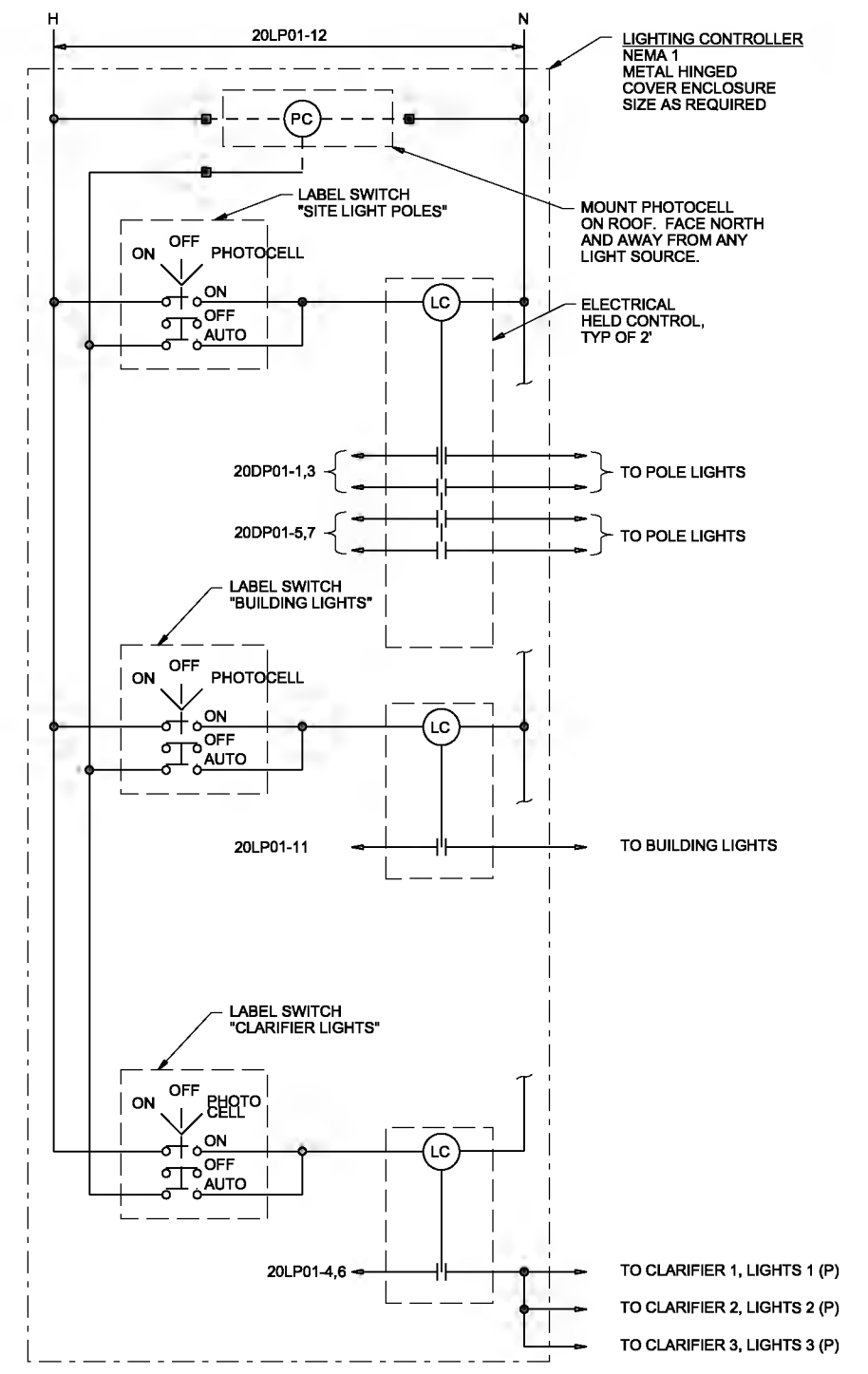
HEADWORKS
ELECTRICAL
UPPER LEVEL FACILITY PLAN - C
(GRIT)

| | |
|-------|-------------|
| SHEET | 238 |
| DWG | 20-E-147 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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SECTION A
3/16"=1'-0" 20-E-131



LIGHTING CONTROL DETAIL 1
NTS
20-E-135
20-E-136
20-E-137
20-E-145

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| | | | | | |
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| DSGN | KL MAESTRI | | | | |
| DR | G. LOVE | | | | |
| CHK | JB MALIBAS | 01/23/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

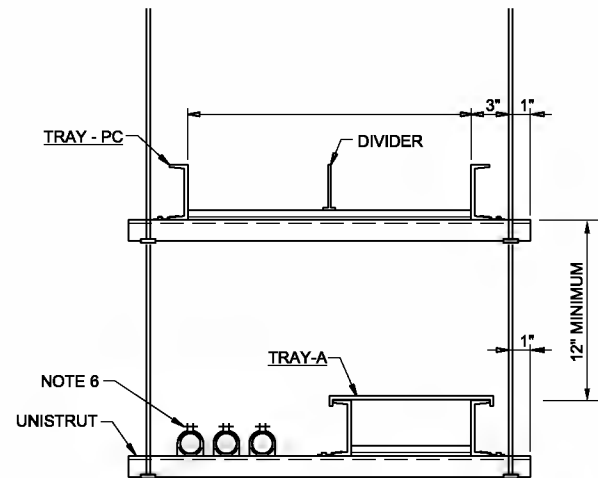
HEADWORKS
SECTIONS AND DETAILS

| | |
|-------|-------------|
| SHEET | 239 |
| DWG | 20-E-201 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

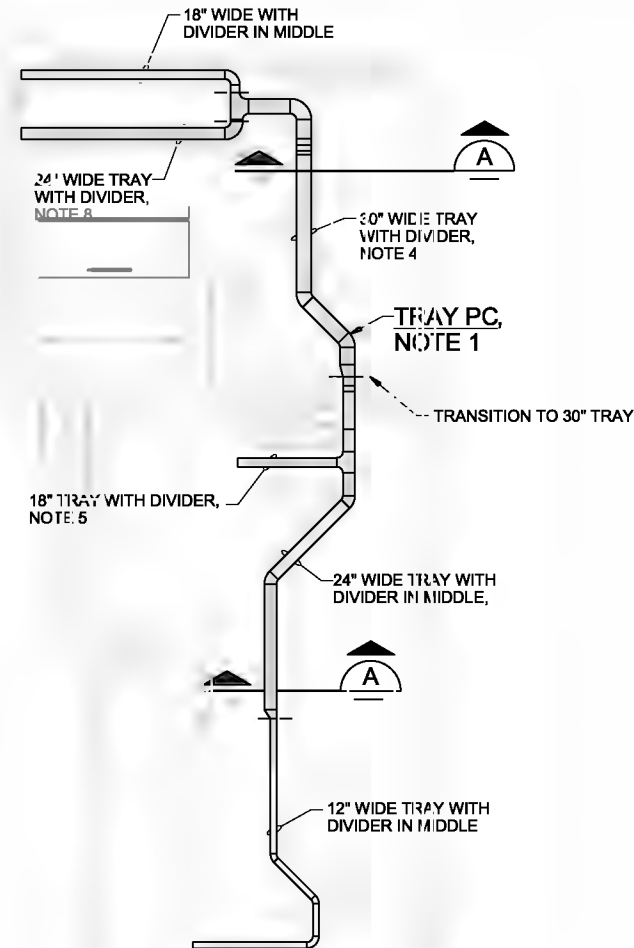
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NOTES:

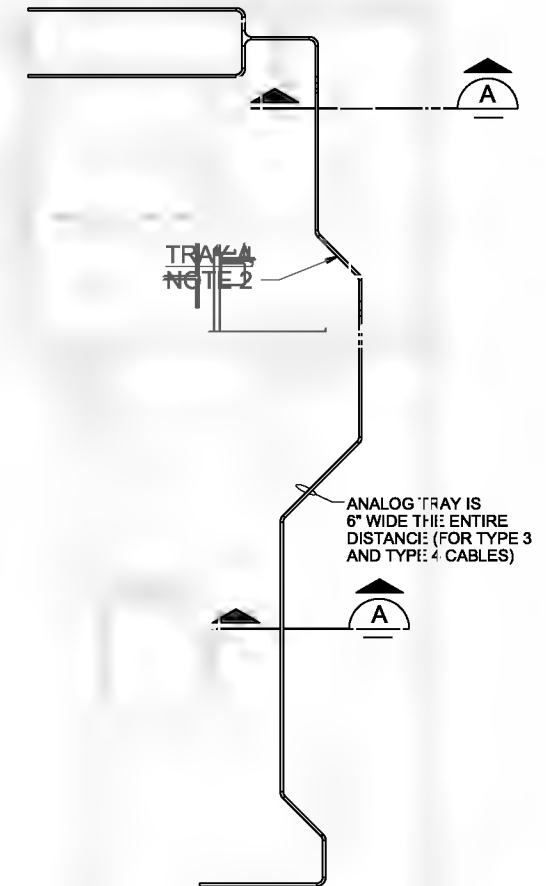
1. CABLE TRAYS SHALL BE USED FOR ROUTING OF CABLES AS SHOWN ON THE RISER DIAGRAM. INSTALL CABLES IN THE APPROPRIATE TRAY AS DESCRIBED IN NOTES 2 AND 3.
2. TRAY PC SHALL BE A LADDER TYPE TRAY WITH A DIVIDER, WIDTH AS SHOWN ON THE POWER AND CONTROL TRAY PLAN. TRAY PC SHALL BE USED FOR 480V AND 120V POWER CABLES (CABLE TYPE 2) AND 120V DISCRETE CONTROL CABLES (CABLE TYPE 1) SEPARATED BY A DIVIDER.
3. TRAY A SHALL BE A SOLID BOTTOM TRAY WITH A COVER, 6" WIDE THE ENTIRE LENGTH. TRAY A SHALL BE USED FOR ANALOG SIGNAL CABLES (CABLE TYPES 3 AND 4) AND NETWORK CABLES (DEVICE NET & ETHERNET).
4. INSTALL DIVIDER SO CONTROL CABLE SIDE IS 18" WIDE AND POWER CABLE SIDE IS 12" WIDE.
5. INSTALL DIVIDER SO CONTROL CABLE SIDE IS 12" WIDE AND POWER CABLE SIDE IS 6" WIDE.
6. FOR ADDITIONAL REQUIREMENT REFER TO (16190).
7. USE LOWER UNISTRUT FOR CONDUITS MOUNTING. SPACE CONDUIT SUFFICIENTLY TO REMOVE OF ONE CONDUIT WITHOUT DISTURBING ADJACENT CONDUITS.
8. INSTALL DIVIDER SO CONTROL CABLE SIDE IS 15" WIDE AND POWER CABLE SIDE IS 9" WIDE.



CABLE TRAY SECTION A
20-E-201



POWER AND CONTROL TRAY PLAN, TRAY PC
NTS



ANALOG CABLE TRAY PLAN, TRAY A
NTS

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| | | | | | |
|--------|------------|----------|----|-------|--|
| DESIGN | K. MAESTRI | | | | |
| DR | INITIALS | | | | |
| CHK | INITIALS | | | | |
| APP'D | INITIALS | | | | |
| NO. | DATE | REVISION | BY | APP'D | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

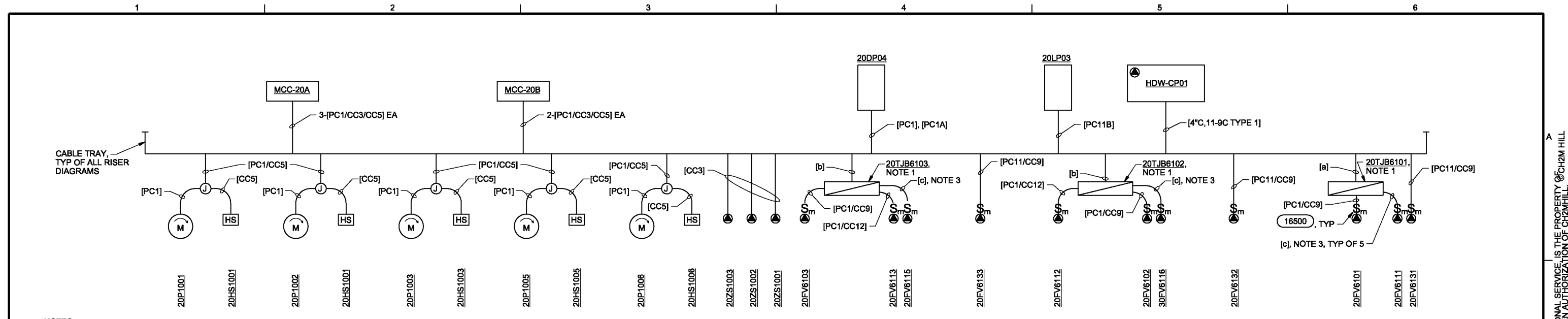
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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
ELECTRICAL
CABLE TRAY DETAILS

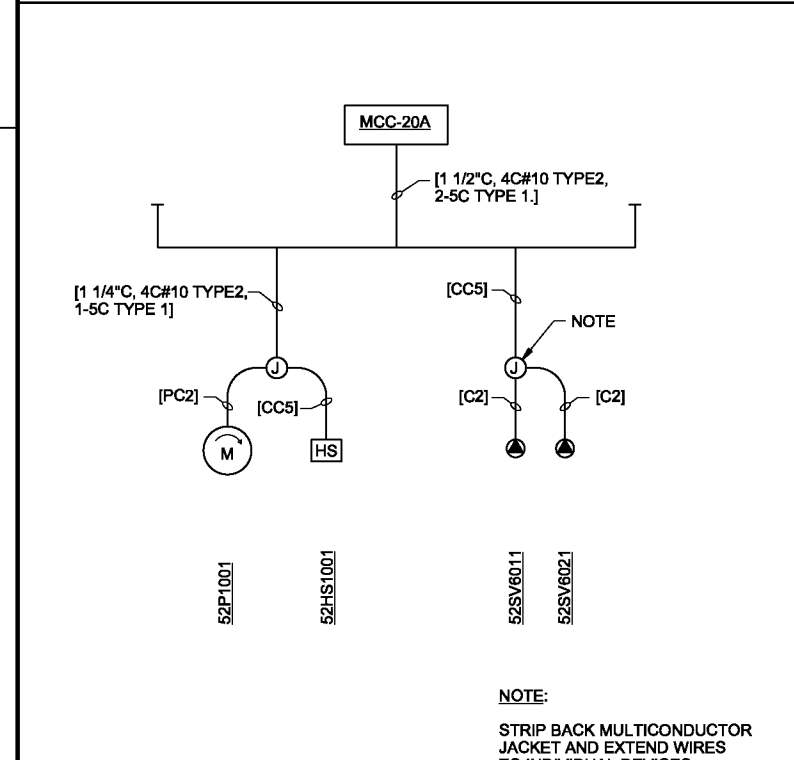
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|-------|-------------|
| SHEET | 240 |
| DWG | 20-E-401 |
| DATE | MAY 19 2006 |
| PROJ | 326916 |



- NOTES:**
1. SIZE TJB AS REQUIRED. USE TJB AS A PULLPOINT FOR CONTROL WIRES.
 2. FOR CIRCUITING REQUIREMENTS SEE ELECTRICAL EQUIPMENT RISER DIAGRAM.
 3. CC3 TO ASSOCIATED GRIT PUMP STARTER PER WIRING DIAGRAMS.

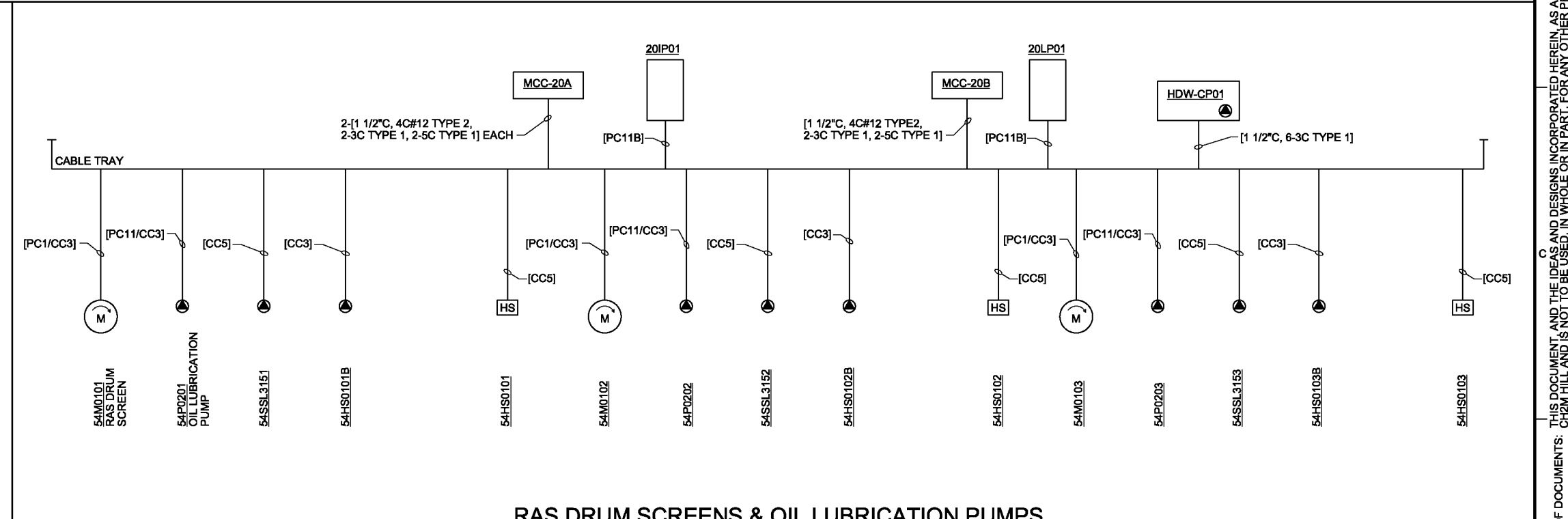
- CIRCUIT CALLOUTS:**
(THIS RISER ONLY)
- [a] = 2" C, 4C#12 TYPE 2, 3C TYPE 1, 9-C TYPE 1
 - [b] = 2 1/2" C AL#12 TYPE 2, 2-3C TYPE 1, 2-9C TYPE 1
 - [c] = 1 1/2" C, 4C#12 TYPE 2, 3C TYPE 1, 9C TYPE 1

GRIT PUMPS AND VALVES



RAS GRIT PUMP

- NOTE:**
- STRIP BACK MULTICONDUCTOR JACKET AND EXTEND WIRES TO INDIVIDUAL DEVICES.



RAS DRUM SCREENS & OIL LUBRICATION PUMPS

- NOTE:**
- THIS DRAWING SHOWS INDIVIDUAL CONDUITS FOR EACH CONTROL TO THE TRAY. CABLES MAY BE COMBINED INTO CONDUITS WHERE FEASIBLE AND APPROVED BY ENGINEER.

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| | |
|------|-------------|
| DSGN | KL MAESTRI |
| DR | GJ LOVE |
| CHK | JB MAURAIIS |
| APVD | CW MASSIE |
| NO. | 01/20/10 |
| DATE | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

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| VERIFY | SCALE |
| | BAR IS ONE INCH ON ORIGINAL DRAWING. |
| | 0 = 1" |
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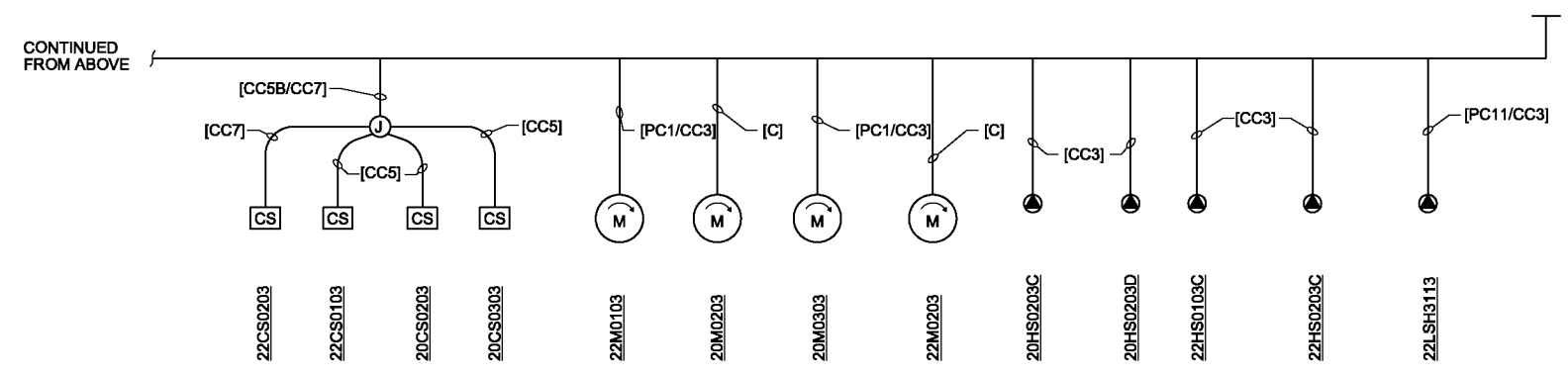
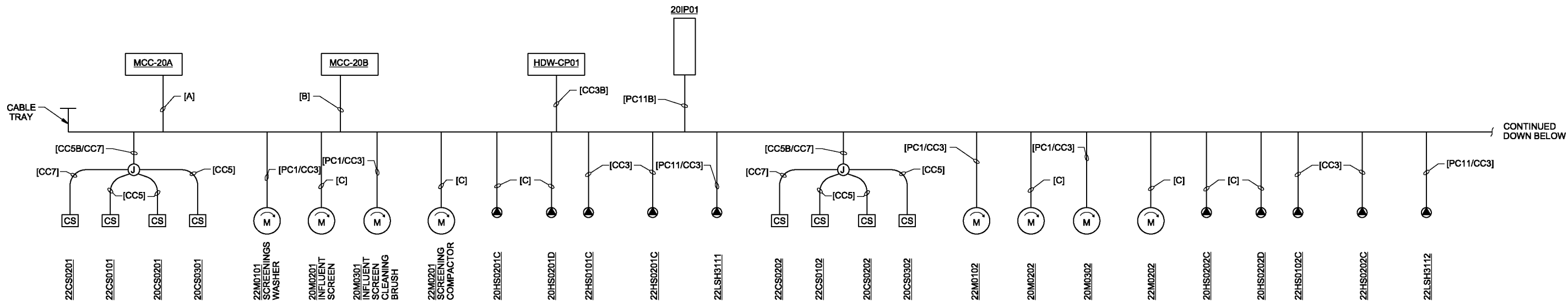


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
ELECTRICAL
RISER DIAGRAMS

| | |
|-------|-------------|
| SHEET | 241 |
| DWG | 20-E-501 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
1. STRIP BACK MULTICONDUCTOR JACKET AND EXTEND INDIVIDUAL WIRES TO DEVICES.
 2. 20M0201, 20M0202, 20M0203, 22M0201, 22M0202 AND 22M0203 ARE CONTROLLED BY AFD'S. POWER (TYPE 2 CABLES) AND CONTROLS (TYPE 1 CABLES) CAN NOT BE COMBINED IN THE SAME CONDUIT.
 3. THIS RISER DIAGRAM SHOWS INDIVIDUAL CONDUITS FOR MOST CIRCUITS TO THE TRAY. CABLES MAY BE COMBINED INTO COMMON CONDUITS WHERE FEASIBLE AND APPROVED BY THE ENGINEER. SEE NOTE 2 FOR ADDITIONAL RESTRICTIONS.

- CONDUIT AND CONDUCTOR CALLOUTS:**
(THIS DWG ONLY)
- [A] = 2-[PC1/CC3/CC5] (FOR 20M0301,20M0303)
 2-[1 1/4"C,2-3C TYPE 1,1-7C TYPE 1] (FOR 20M0201,22M0203)
 2-[1 1/4"C,1-3C TYPE 1,2-5C TYPE 1] (FOR 20M0201,20M0203)
 2-[1 1/2"C,4C#12,2-3C TYPE 1,1-5C TYPE 1] (FOR 22M0101,22M0103)
 4-[3/4"C,4#12 TYPE 8] FOR 20M0301,20M0303,22M0201,22M0203
- [B] = [PC1/CC3/CC5] (FOR 20M0302)
 [1 1/4"C,2-3C TYPE 1,1-7C TYPE 1] (FOR 22M0202)
 [1 1/4"C,1-3C TYPE 1,2-5C TYPE 1] (FOR 20M0202)
 [1 1/2"C,4C#12 TYPE 2,2-3C TYPE 1,1-5C TYPE 1] (FOR 22M0102)
 2-[3/4"C,4#12 TYPE 8] FOR 22M020,20M0201)
- [C] = [3/4"C,4C#12,TYPE 8],[CC3]
 THIS IS A SHIELDED POWER CABLE FOR VFD USE

INFLUENT SCREENS/CLEANING BRUSHES/WASHERS/COMPACTORS

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KANDIL MAESTRI, STATE OF OREGON, P.E. NO. 53785PE

| | | | | | | | | | |
|------|------------|----------|------|----------|----|------|--|--|---|
| DSGN | KL MAESTRI | | | | | | | | VERIFY SCALE |
| DR | GJ LOVE | | | | | | | | BAR IS ONE INCH ON ORIGINAL DRAWING. |
| CHK | JB MAURAS | 01/20/10 | | | | | | | 0 1" |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | | | IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |



CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

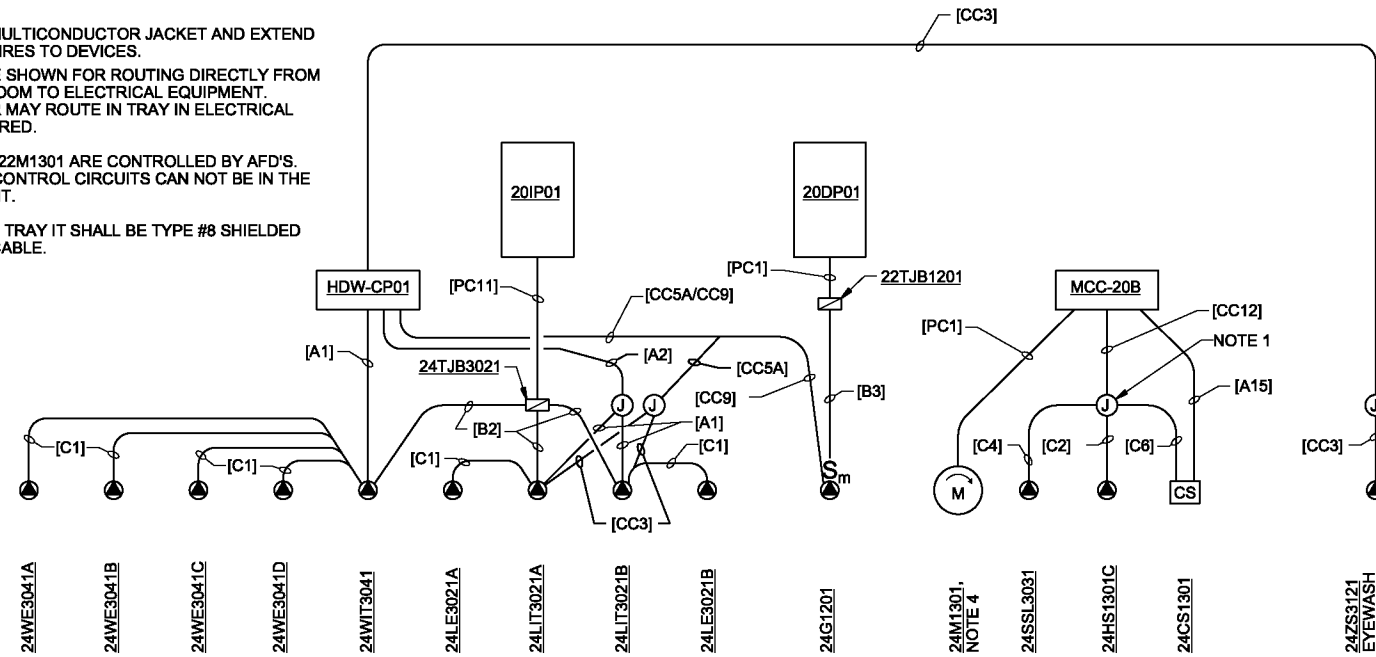
HEADWORKS
ELECTRICAL
 RISER DIAGRAMS

| | |
|-------|-------------|
| SHEET | 242 |
| DWG | 20-E-502 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

REUSE OF DOCUMENTS: CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.

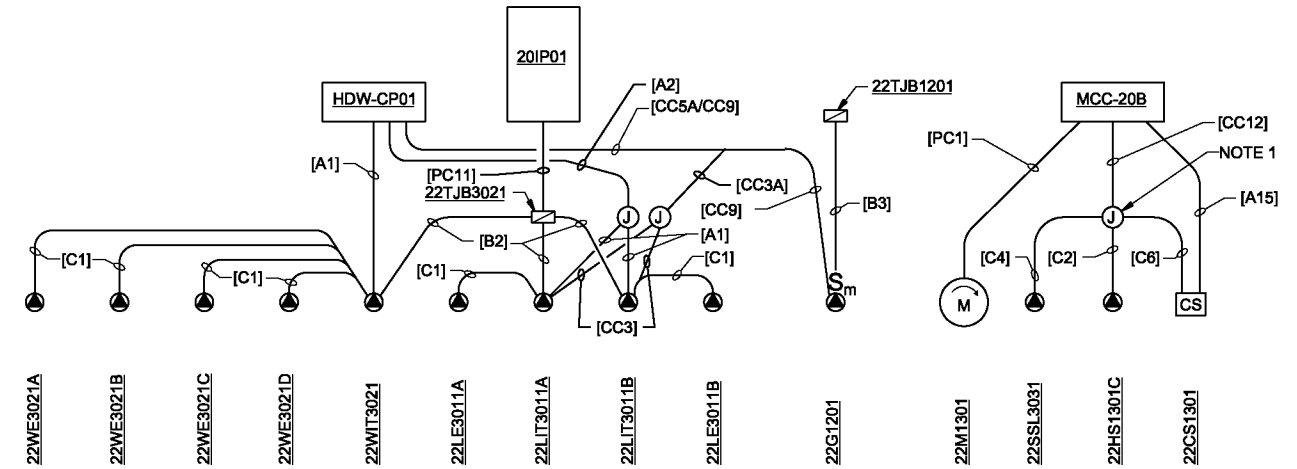
NOTES:

1. STRIP BACK MULTICONDUCTOR JACKET AND EXTEND INDIVIDUAL WIRES TO DEVICES.
2. CIRCUITS ARE SHOWN FOR ROUTING DIRECTLY FROM DUMPSTER ROOM TO ELECTRICAL EQUIPMENT. CONTRACTOR MAY ROUTE IN TRAY IN ELECTRICAL ROOM IF DESIRED.
3. 24M1301 AND 22M1301 ARE CONTROLLED BY AFD'S. POWER AND CONTROL CIRCUITS CAN NOT BE IN THE SAME CONDUIT.
4. IF CABLE IS IN TRAY IT SHALL BE TYPE #8 SHIELDED VFD POWER CABLE.



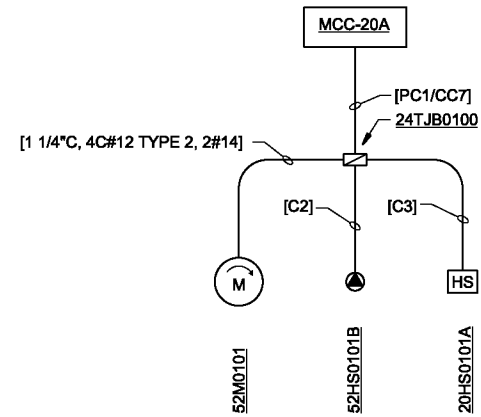
GRIT HOPPER AND GRIT LOADOUT CONVEYOR

SEE NOTE 2



SCREENINGS HOPPER AND SCREENINGS LOADOUT CONVEYOR

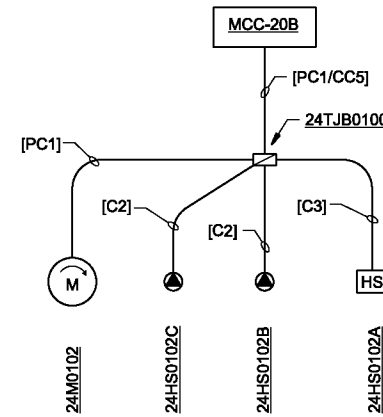
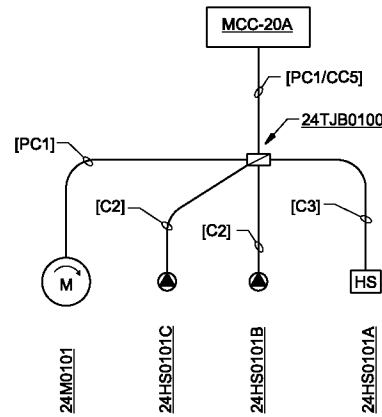
SEE NOTE 2



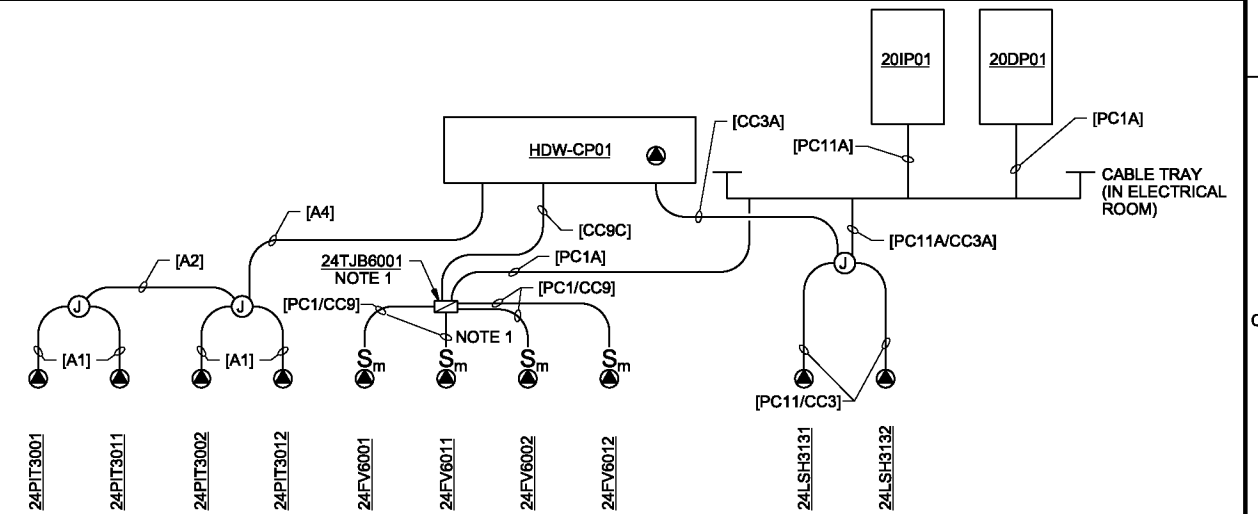
RAS GRIT CLASSIFIER

NOTES:

1. CIRCUITS ARE SHOWN FOR ROUTING DIRECTLY FROM DUMPSTER ROOM TO ELECTRICAL EQUIPMENT. CONTRACTOR MAY ROUTE IN TRAY IN ELECTRICAL ROOM IF DESIRED.
2. SPLICE WIRES IN JUNCTION BOX. SEE CONTROL DIAGRAM FOR REQUIREMENTS.



GRIT CLASSIFIERS



NOTES:

1. ROUTE CONTROL CABLES THRU TJB AS A PULLPOINT (DO NOT SPLICE).
2. CIRCUITS ARE SHOWN FOR ROUTING DIRECTLY FROM DUMPSTER ROOM TO ELECTRICAL EQUIPMENT. CONTRACTOR MAY ROUTE IN TRAY IN ELECTRICAL ROOM IF DESIRED.
3. SPLICE WIRES IN JUNCTION BOX. SEE CONTROL DIAGRAM FOR REQUIREMENTS.

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| | | | | | | | |
|------|------------|----------|------|----------|----|------|--|
| DSGN | KL MAESTRI | | | | | | |
| DR | GJ LOVE | | | | | | |
| CHK | JB MAURAS | 01/20/10 | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

| | |
|---|--|
| VERIFY SCALE | |
| BAR IS ONE INCH ON ORIGINAL DRAWING. | |
| IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | |

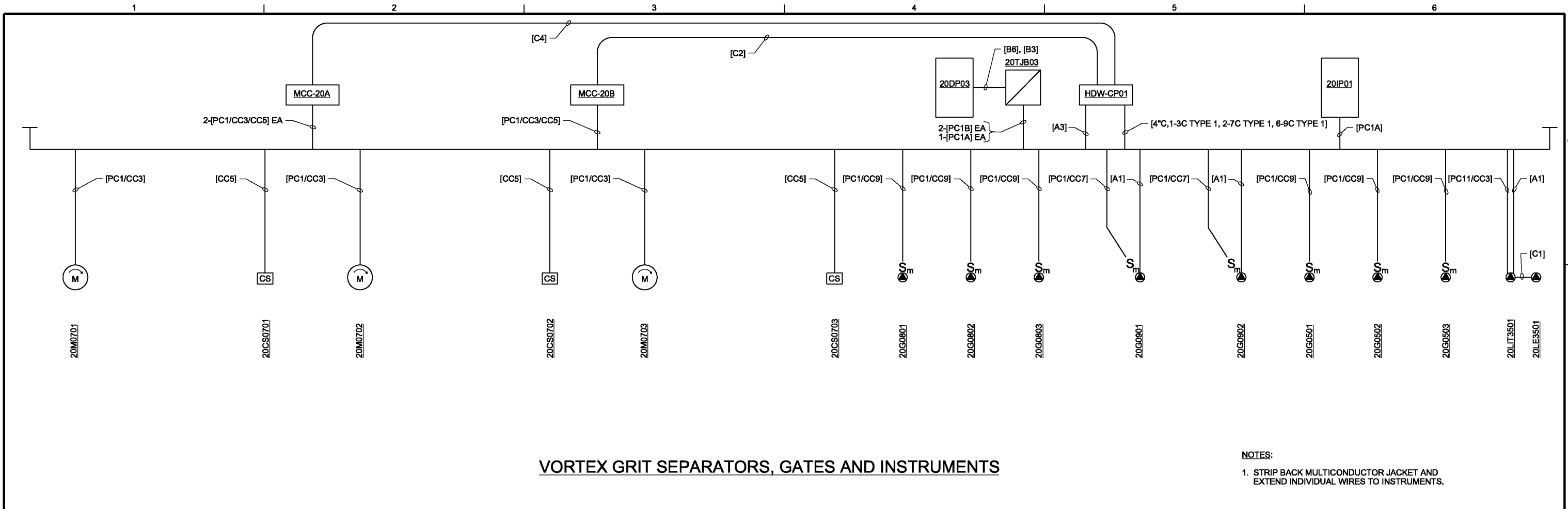


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
ELECTRICAL
RISER DIAGRAMS

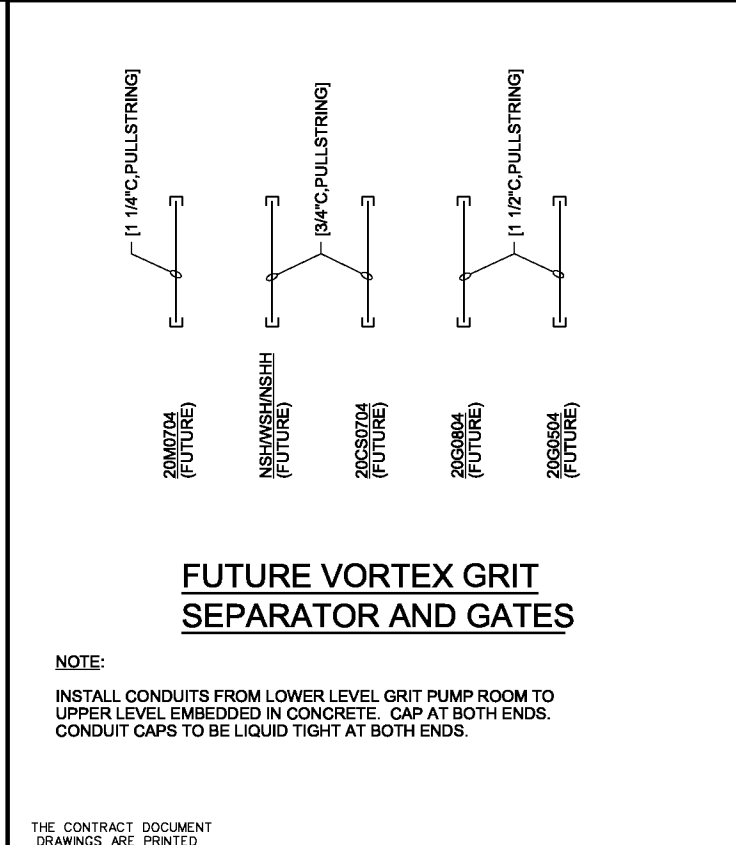
| | |
|-------|-------------|
| SHEET | 243 |
| DWG | 20-E-503 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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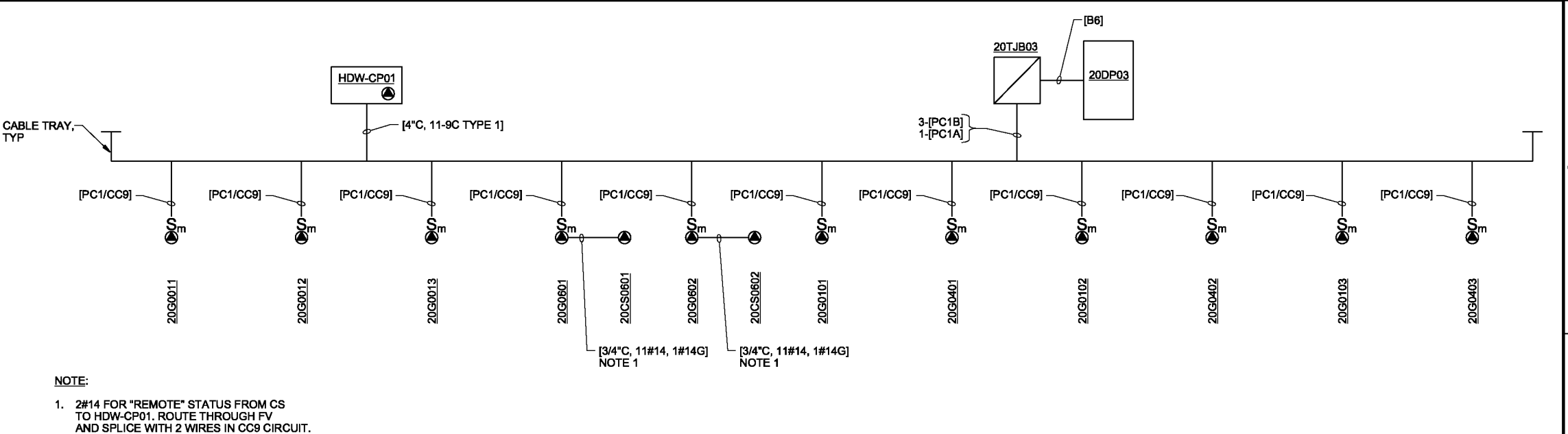
VORTEX GRIT SEPARATORS, GATES AND INSTRUMENTS

NOTES:
1. STRIP BACK MULTICONDUCTOR JACKET AND EXTEND INDIVIDUAL WIRES TO INSTRUMENTS.



FUTURE VORTEX GRIT SEPARATOR AND GATES

NOTE:
INSTALL CONDUITS FROM LOWER LEVEL GRIT PUMP ROOM TO UPPER LEVEL EMBEDDED IN CONCRETE. CAP AT BOTH ENDS. CONDUIT CAPS TO BE LIQUID TIGHT AT BOTH ENDS.



SCREENING CHANNEL GATES

NOTE:
1. 2#14 FOR "REMOTE" STATUS FROM CS TO HDW-CP01. ROUTE THROUGH FV AND SPLICE WITH 2 WIRES IN CC9 CIRCUIT.

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| | | | | | |
|------|------------|--|-----|-----|--|
| DSGN | KL MAESTRI | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | GRW | KLM | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0" = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | GJ LOVE | | | | |
| CHK | JB MAURAIS | | | | |
| APVD | CW MASSIE | | | | |
| NO. | DATE | | | | |

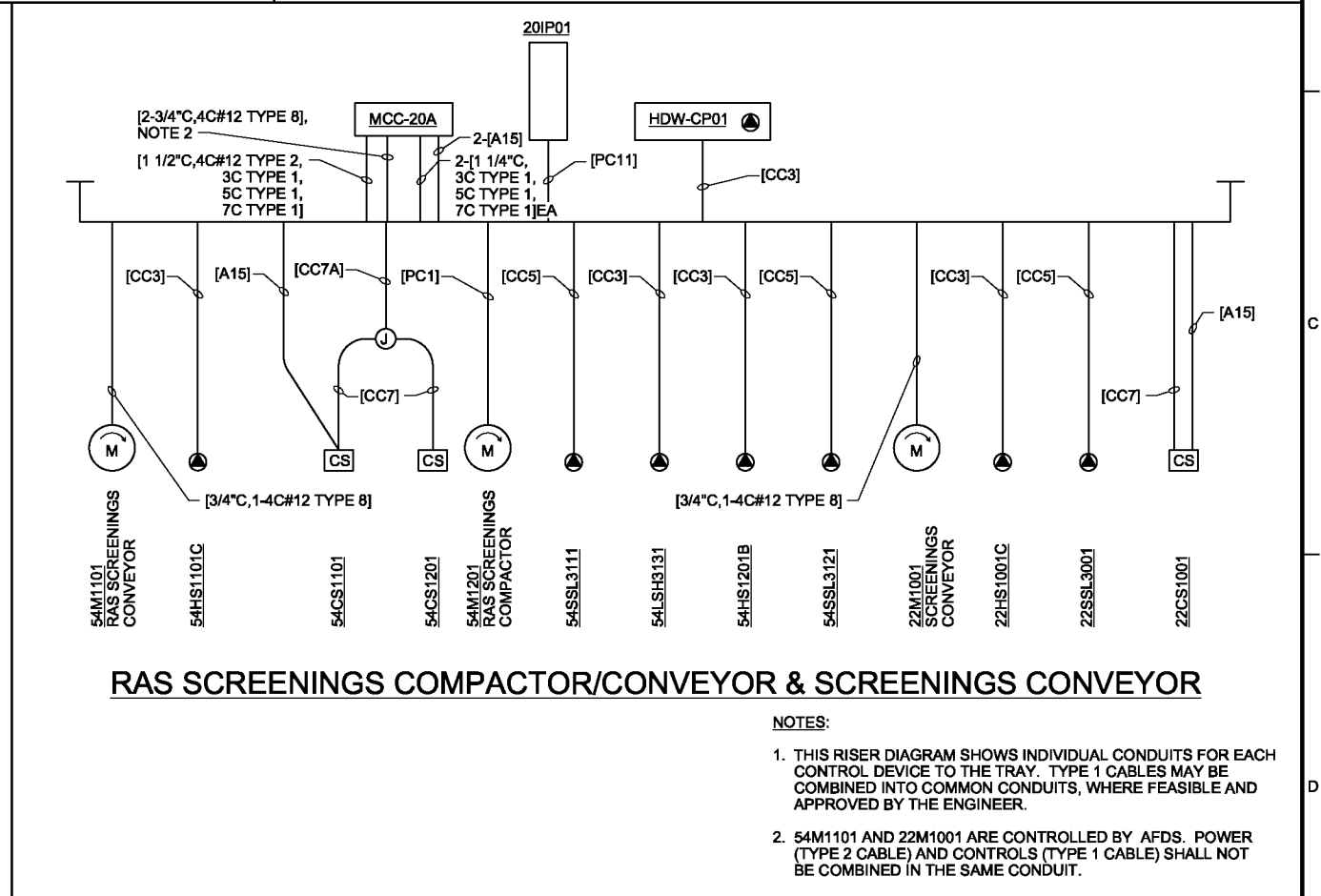
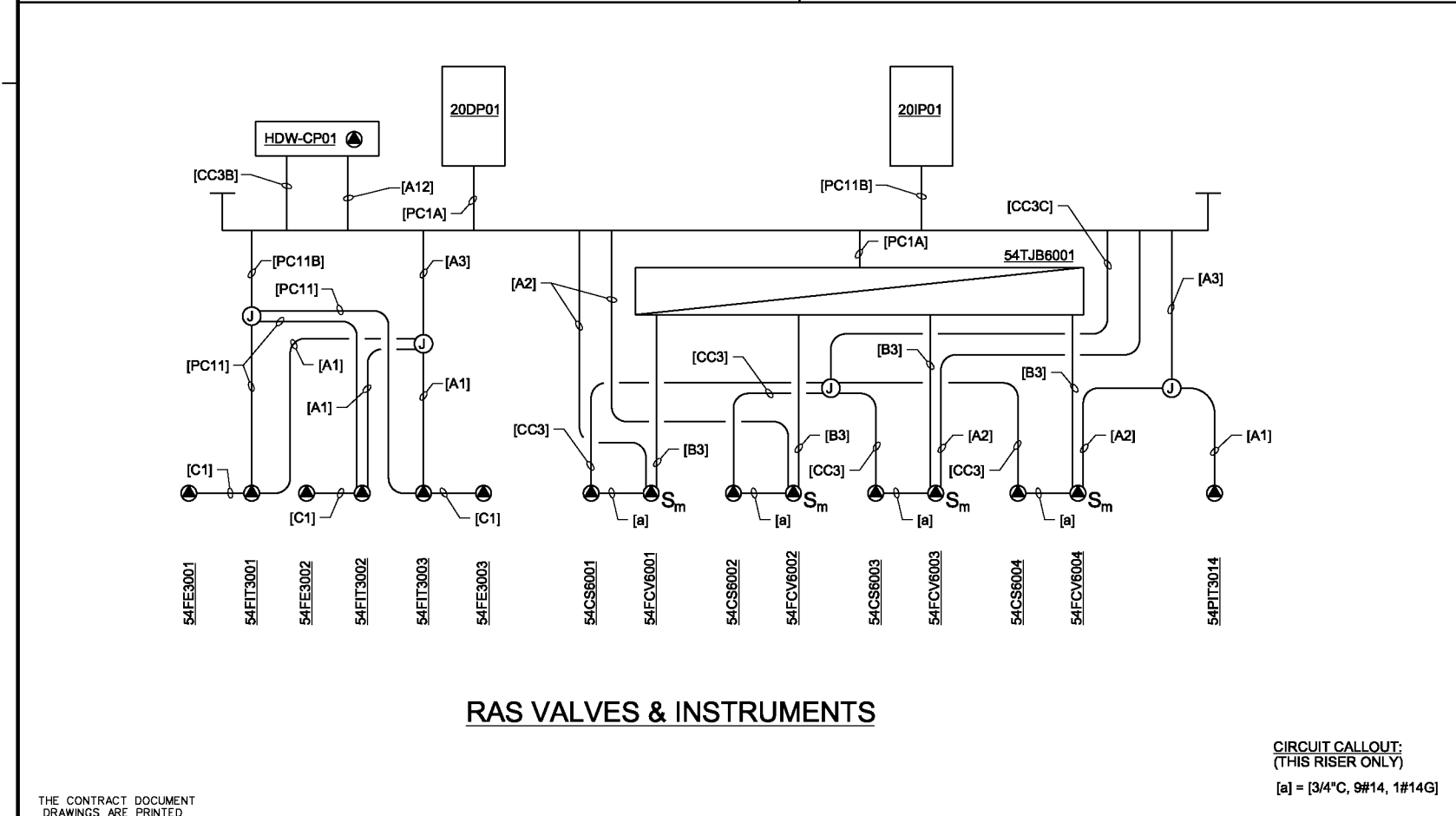
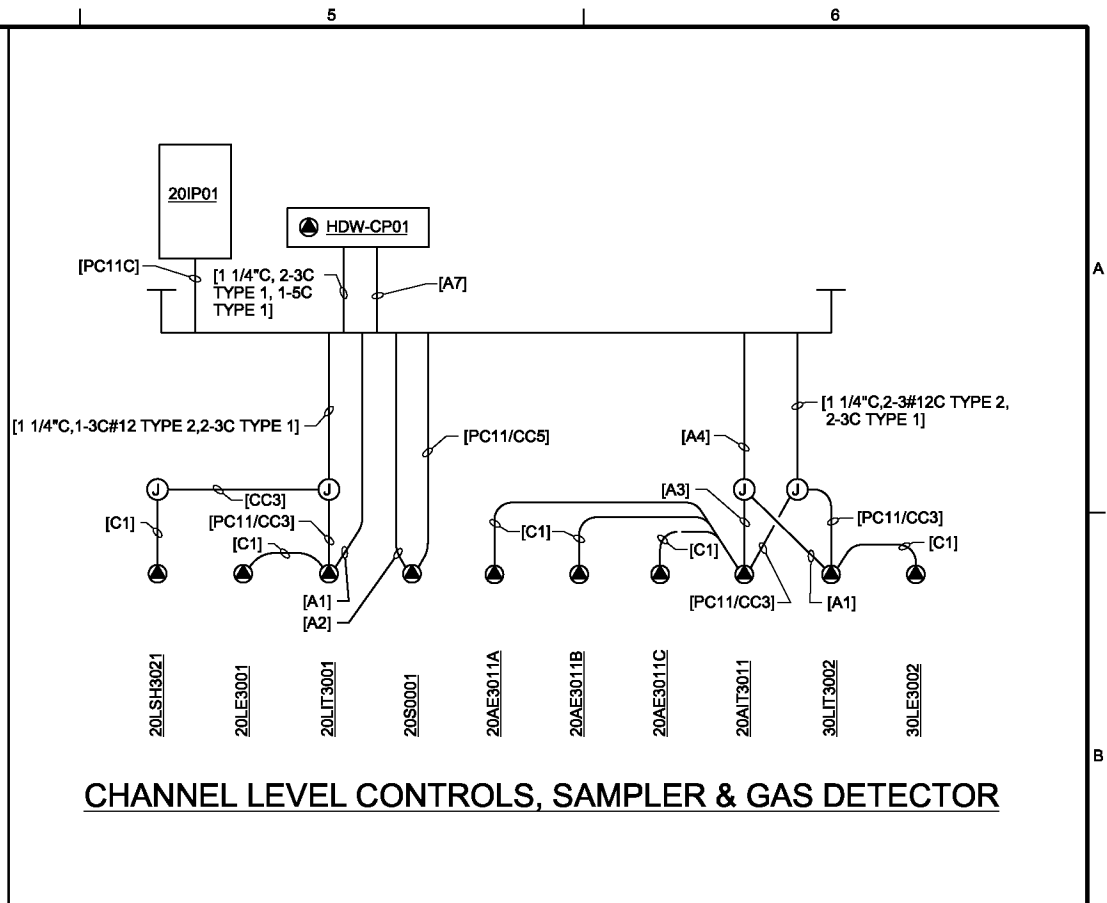
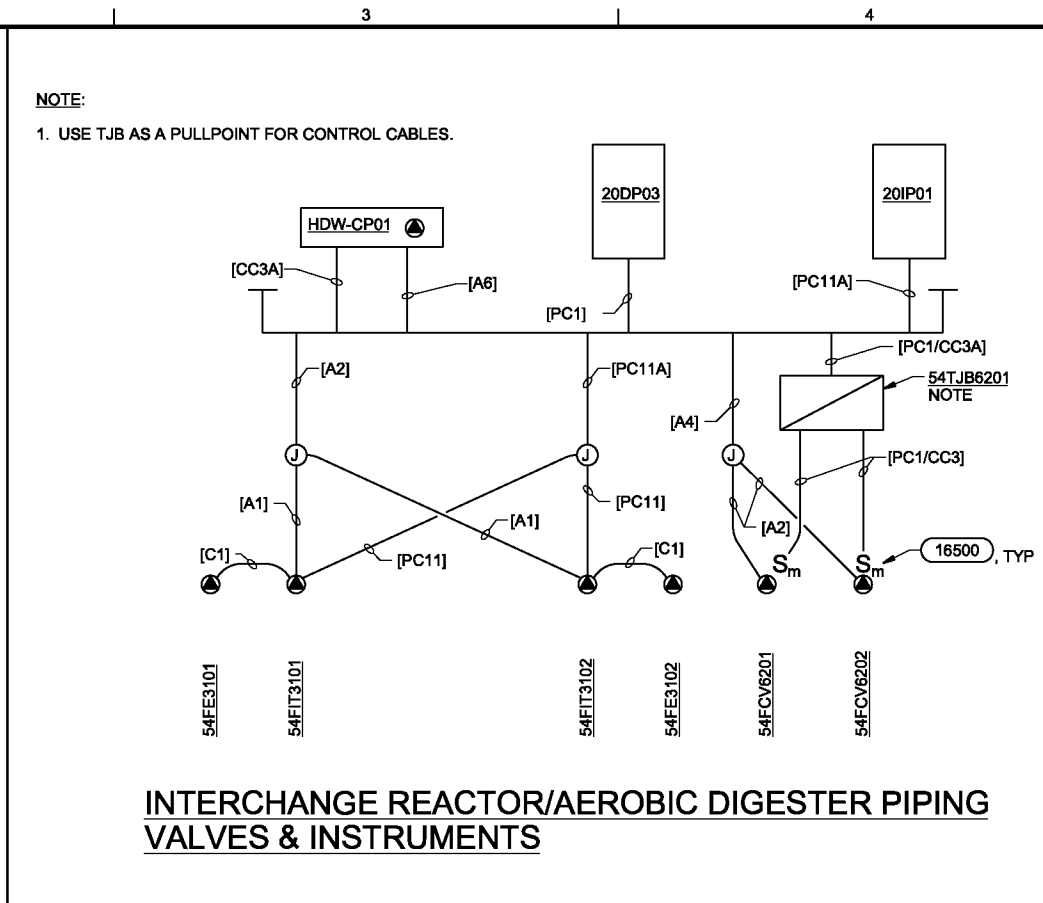
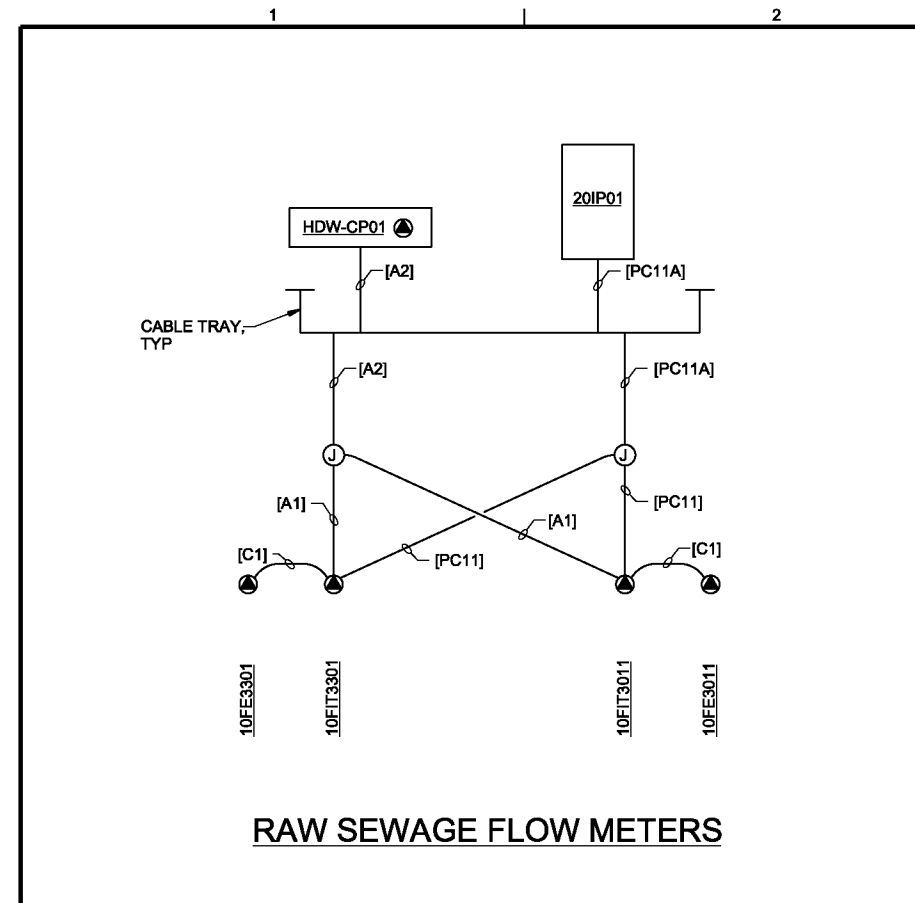


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
ELECTRICAL
RISER DIAGRAMS

| | |
|-------|-------------|
| SHEET | 244 |
| DWG | 20-E-504 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
- THIS RISER DIAGRAM SHOWS INDIVIDUAL CONDUITS FOR EACH CONTROL DEVICE TO THE TRAY. TYPE 1 CABLES MAY BE COMBINED INTO COMMON CONDUITS, WHERE FEASIBLE AND APPROVED BY THE ENGINEER.
 - 54M1101 AND 22M1001 ARE CONTROLLED BY AFDS. POWER (TYPE 2 CABLE) AND CONTROLS (TYPE 1 CABLE) SHALL NOT BE COMBINED IN THE SAME CONDUIT.

CIRCUIT CALLOUT:
(THIS RISER ONLY)
[a] = [3/4" C, 9#14, 1#14G]

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| | | | | | |
|------|------------|----------|------|----------|----|
| DSGN | KL MAESTRI | | | | |
| DR | J HAMNER | | | | |
| CHK | JB MAURAS | 01/20/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

| | |
|---|--|
| VERIFY SCALE | |
| BAR IS ONE INCH ON ORIGINAL DRAWING. | |
| IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | |

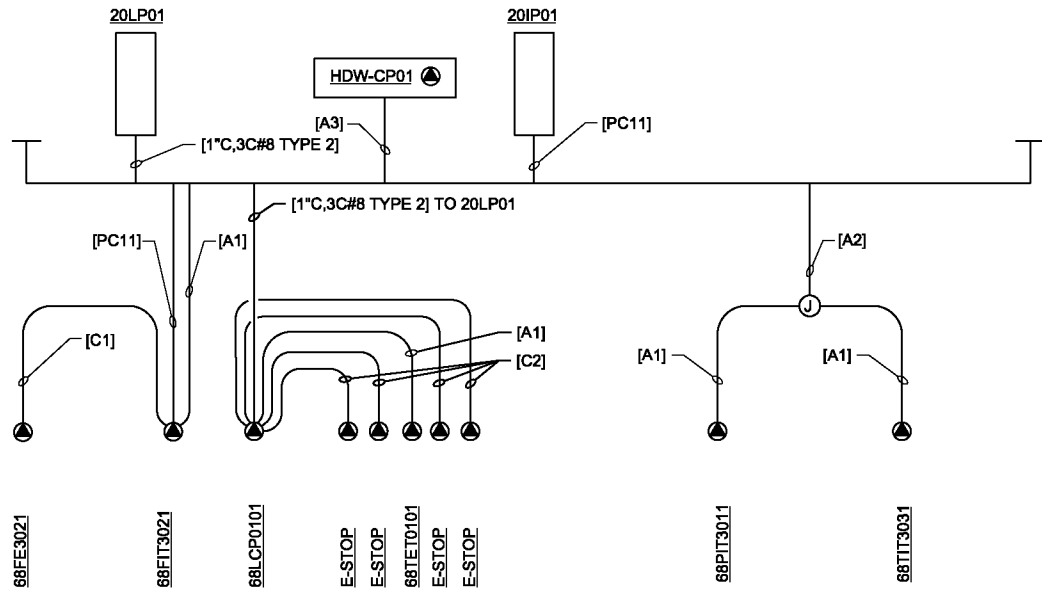


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

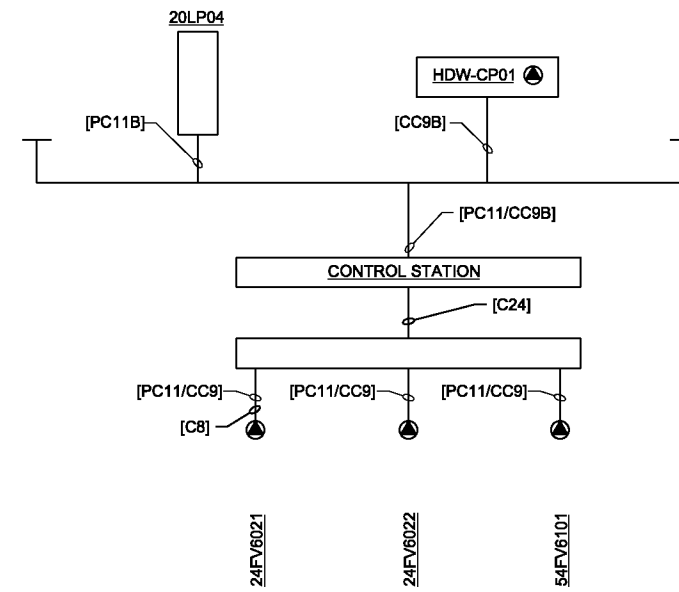
HEADWORKS
ELECTRICAL
RISER DIAGRAMS

| | |
|-------|-------------|
| SHEET | 245 |
| DWG | 20-E-505 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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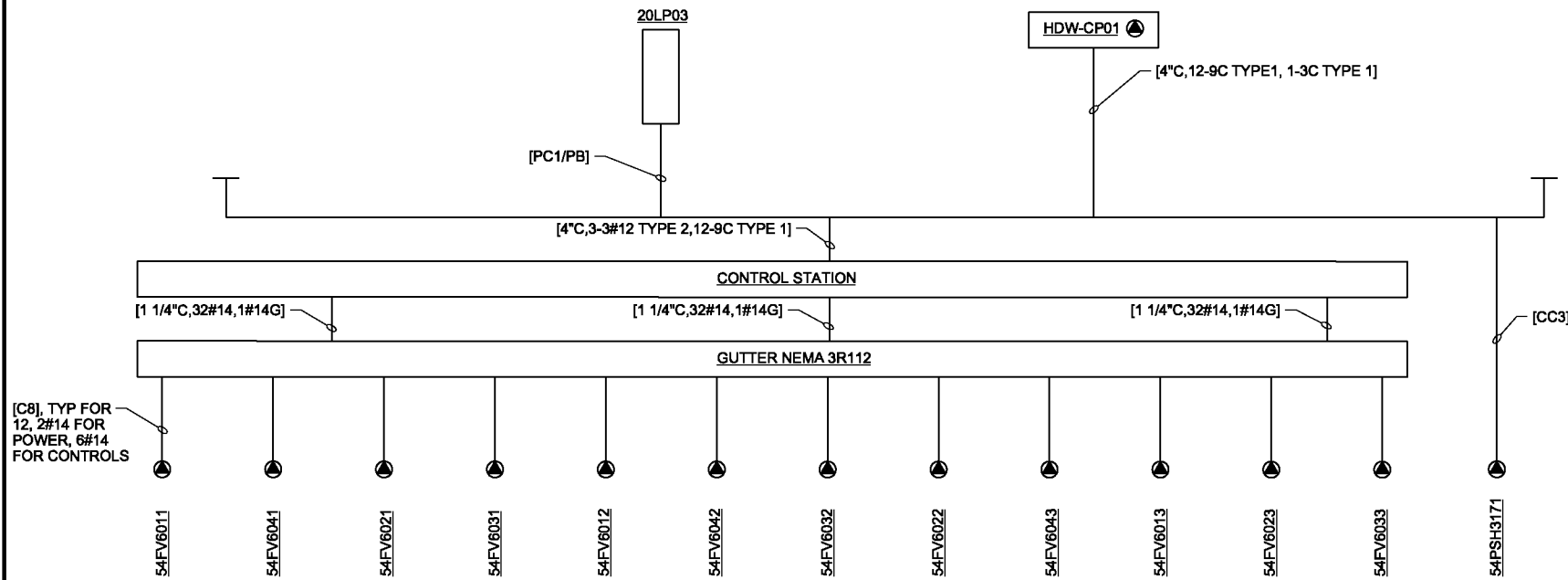


HOT WATER HEATER SYSTEM



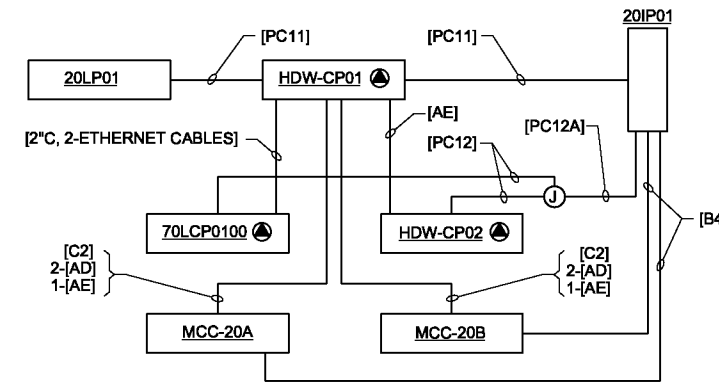
MISC. VALVES

NOTE:
DISCONNECTION MEANS IS A LOCKABLE BREAKER IN 20LP04.



RAS DRUM SCREEN HOT/COLD WATER VALVES

NOTE:
DISCONNECTION MEANS IS A LOCKABLE BREAKER IN 20LP04.



COMMUNICATIONS

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| | | | | | |
|------|------------|----------|------|----------|----|
| DSGN | KL MAESTRI | | | | |
| DR | GJ LOVE | | | | |
| CHK | JB MAURAS | 01/20/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

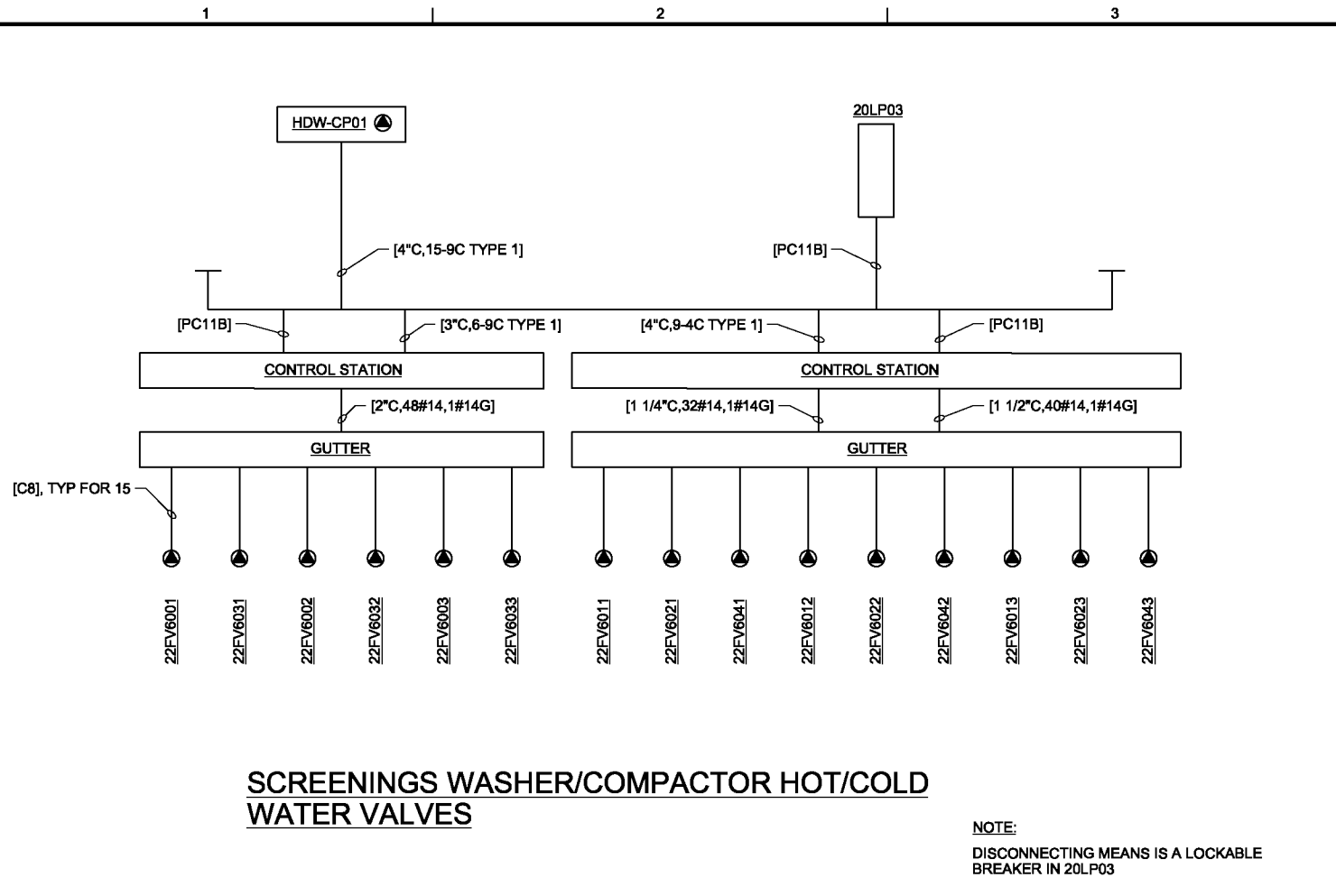


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
ELECTRICAL
RISER DIAGRAMS

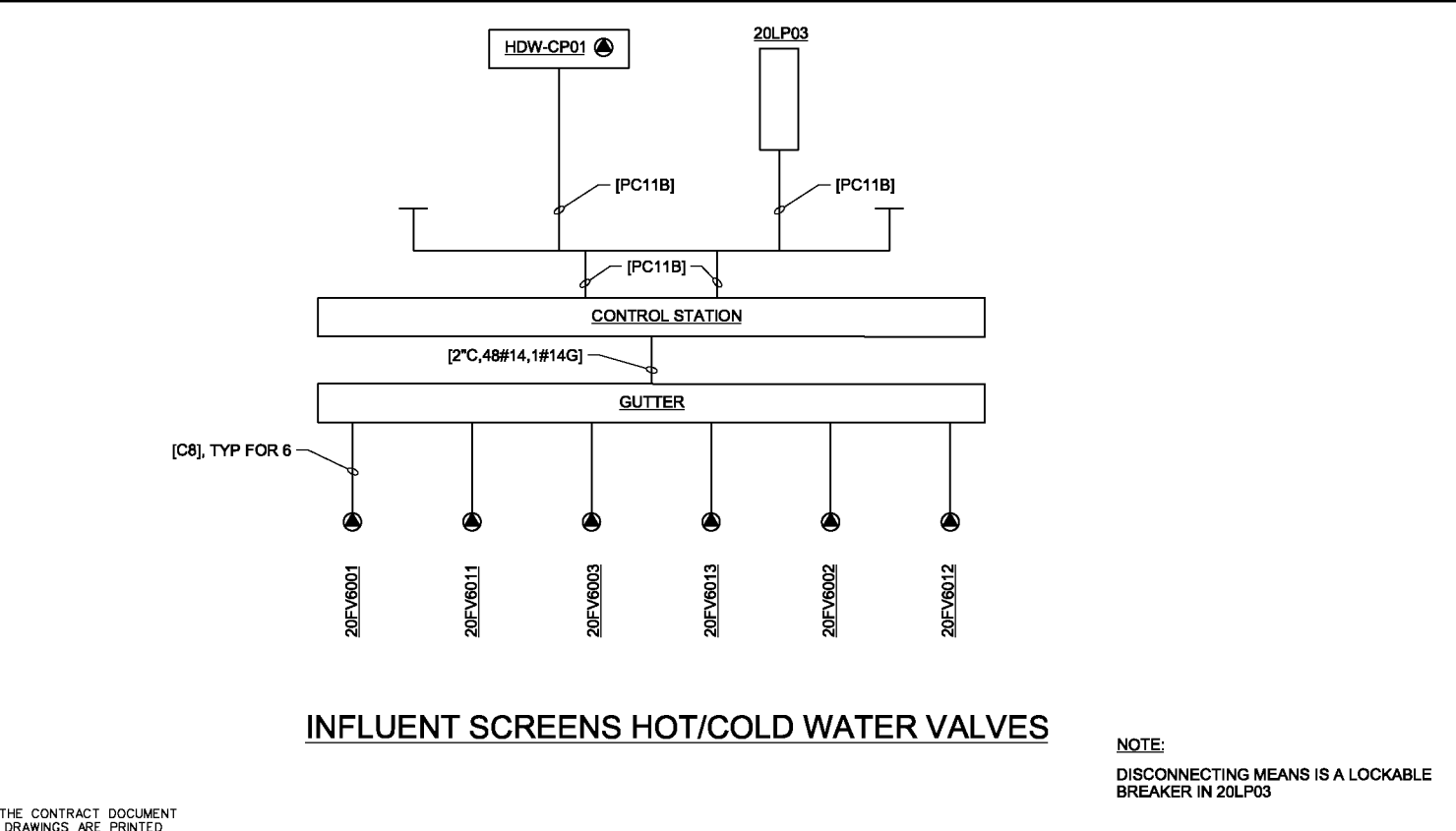
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|-------|-------------|
| SHEET | 246 |
| DWG | 20-E-506 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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SCREENINGS WASHER/COMPACTOR HOT/COLD WATER VALVES

NOTE:
DISCONNECTING MEANS IS A LOCKABLE BREAKER IN 20LP03



INFLUENT SCREENS HOT/COLD WATER VALVES

NOTE:
DISCONNECTING MEANS IS A LOCKABLE BREAKER IN 20LP03

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| | | | | | |
|------|------------|----------|------|----------|---------|
| DSGN | KL MAESTRI | | | | |
| DR | GJ LOVE | | | | |
| CHK | JB MAURAS | 01/20/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY APVD |

| |
|---|
| VERIFY SCALE |
| BAR IS ONE INCH ON ORIGINAL DRAWING. |
| 0 1" |
| IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |

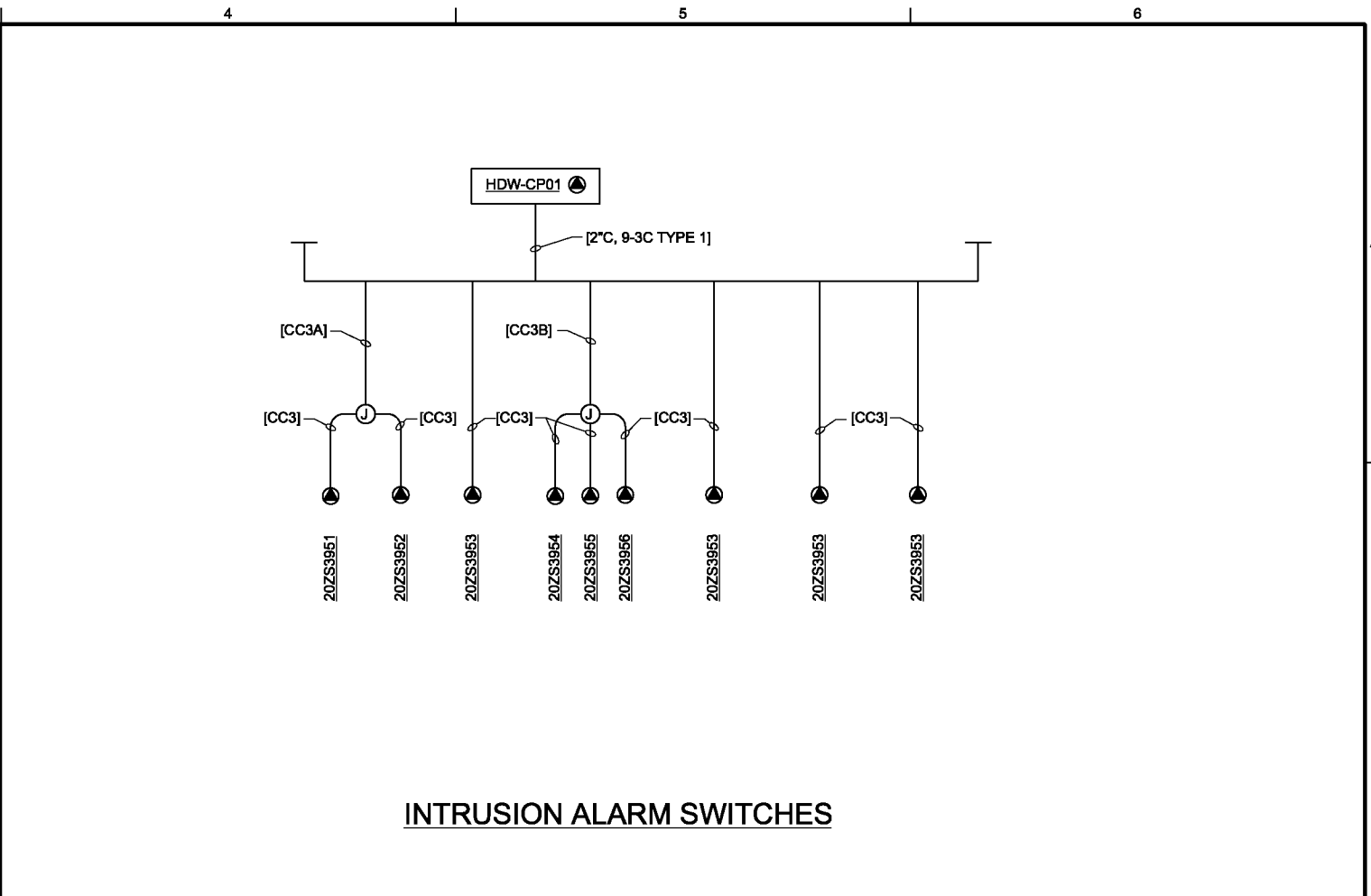


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

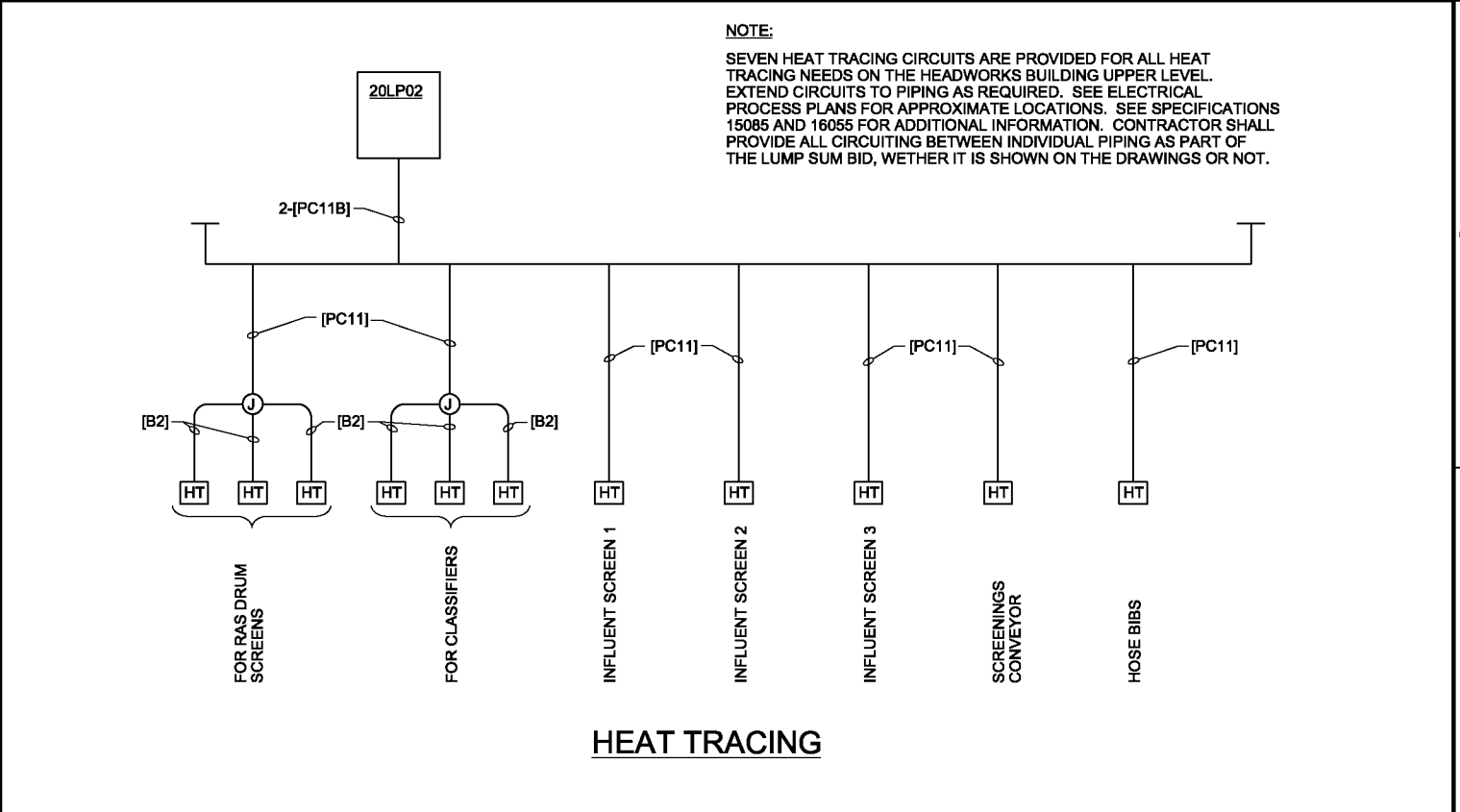
HEADWORKS
ELECTRICAL RISER DIAGRAMS

| | |
|-------|-------------|
| SHEET | 247 |
| DWG | 20-E-507 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

FILENAME: 20ne507d_326918.dgn PLOT DATE: 5/10/2010 PLOT TIME: 1:55:36 PM



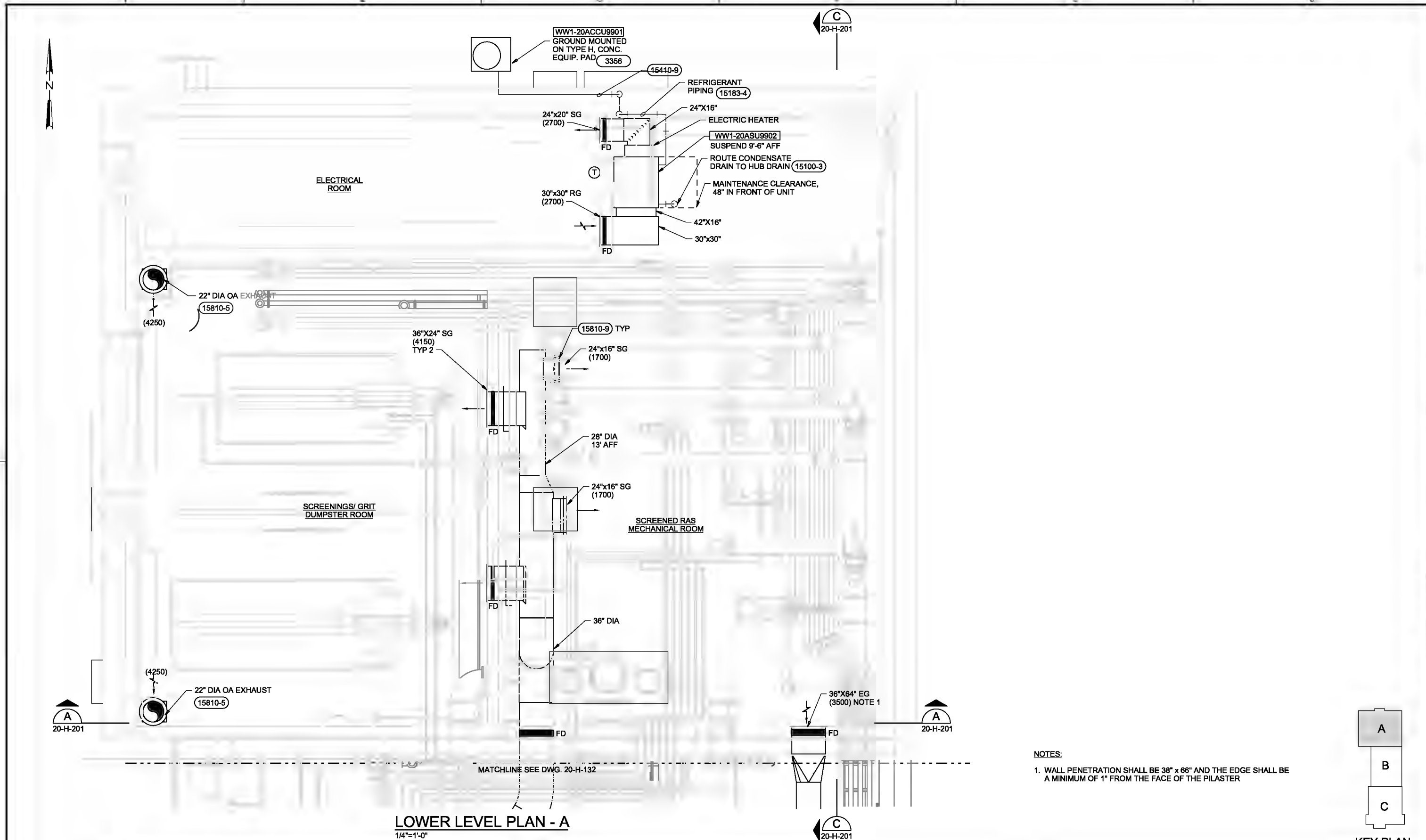
INTRUSION ALARM SWITCHES



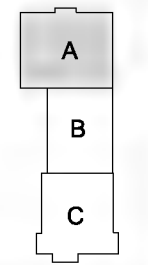
HEAT TRACING

NOTE:
SEVEN HEAT TRACING CIRCUITS ARE PROVIDED FOR ALL HEAT TRACING NEEDS ON THE HEADWORKS BUILDING UPPER LEVEL. EXTEND CIRCUITS TO PIPING AS REQUIRED. SEE ELECTRICAL PROCESS PLANS FOR APPROXIMATE LOCATIONS. SEE SPECIFICATIONS 15085 AND 16055 FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL PROVIDE ALL CIRCUITING BETWEEN INDIVIDUAL PIPING AS PART OF THE LUMP SUM BID, WHETHER IT IS SHOWN ON THE DRAWINGS OR NOT.

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2MHILL. REUSE OF DOCUMENTS: CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL.



NOTES:
 1. WALL PENETRATION SHALL BE 38" x 66" AND THE EDGE SHALL BE A MINIMUM OF 1" FROM THE FACE OF THE PILASTER



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| | | | | | | | | | |
|------|--------------|----------|------|----------|----|------|-----|-----|--|
| DSGN | KL WELP | | | | | | | | |
| DR | SL HOSTETLER | | | | | | | | |
| CHK | TJ REJFIR | 01/20/10 | | | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | BRK | KEG | |

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0" = 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

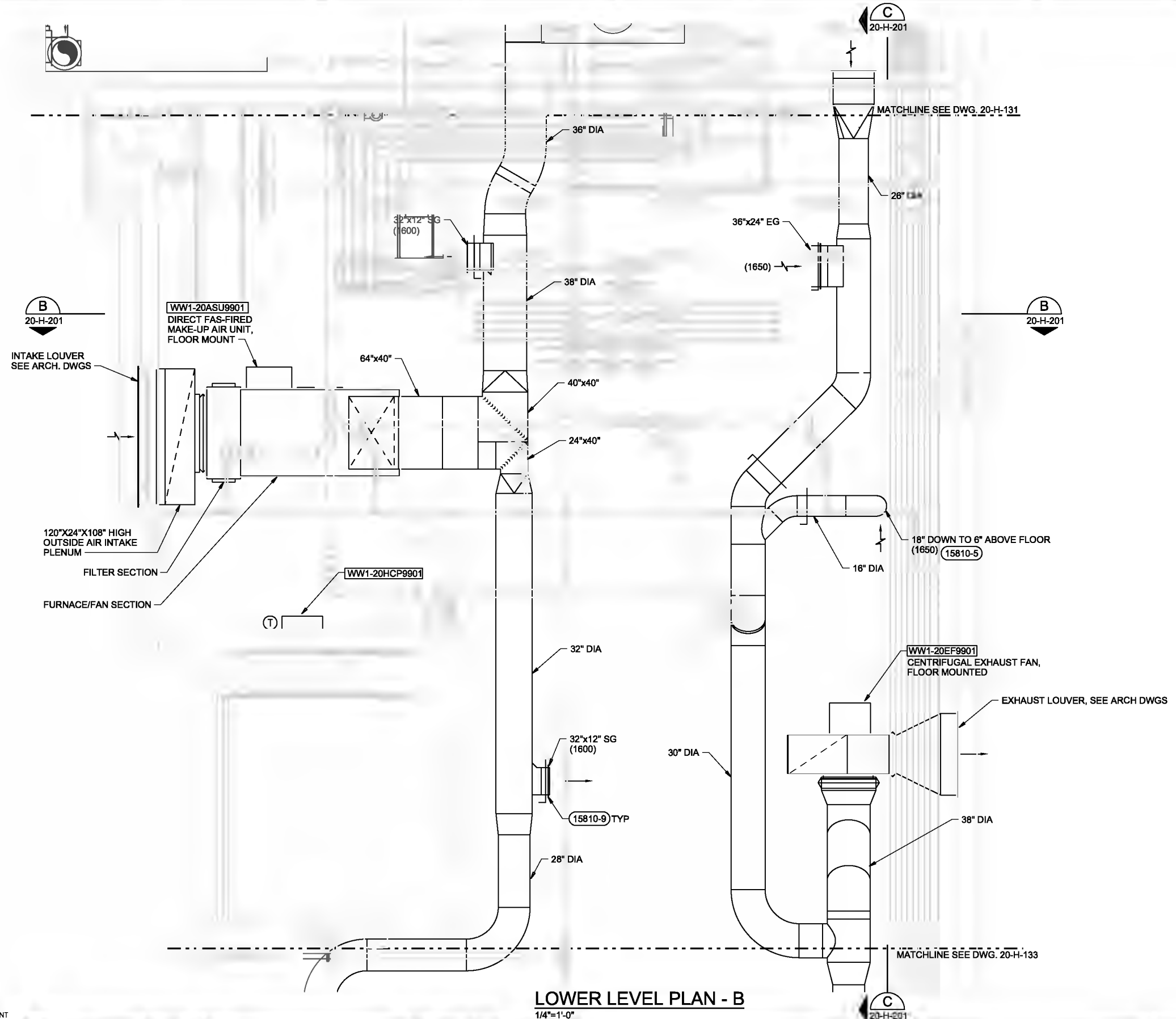
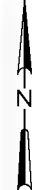


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

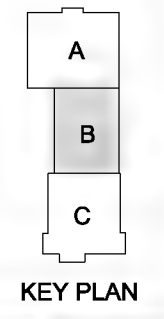
HEADWORKS
 HVAC
 LOWER LEVEL PLAN - A
 SOLIDS HANDLING

| | |
|-------|-------------|
| SHEET | 248 |
| DWG | 20-H-131 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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LOWER LEVEL PLAN - B
1/4"=1'-0"



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| | | | | | |
|------|--------------|----------|----------|----|------|
| DSGN | KL WELP | NO. DATE | REVISION | BY | APVD |
| DR | SL HOSTETLER | | | | |
| CHK | TUREJER | | | | |
| APVD | CW MASSIE | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

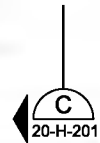
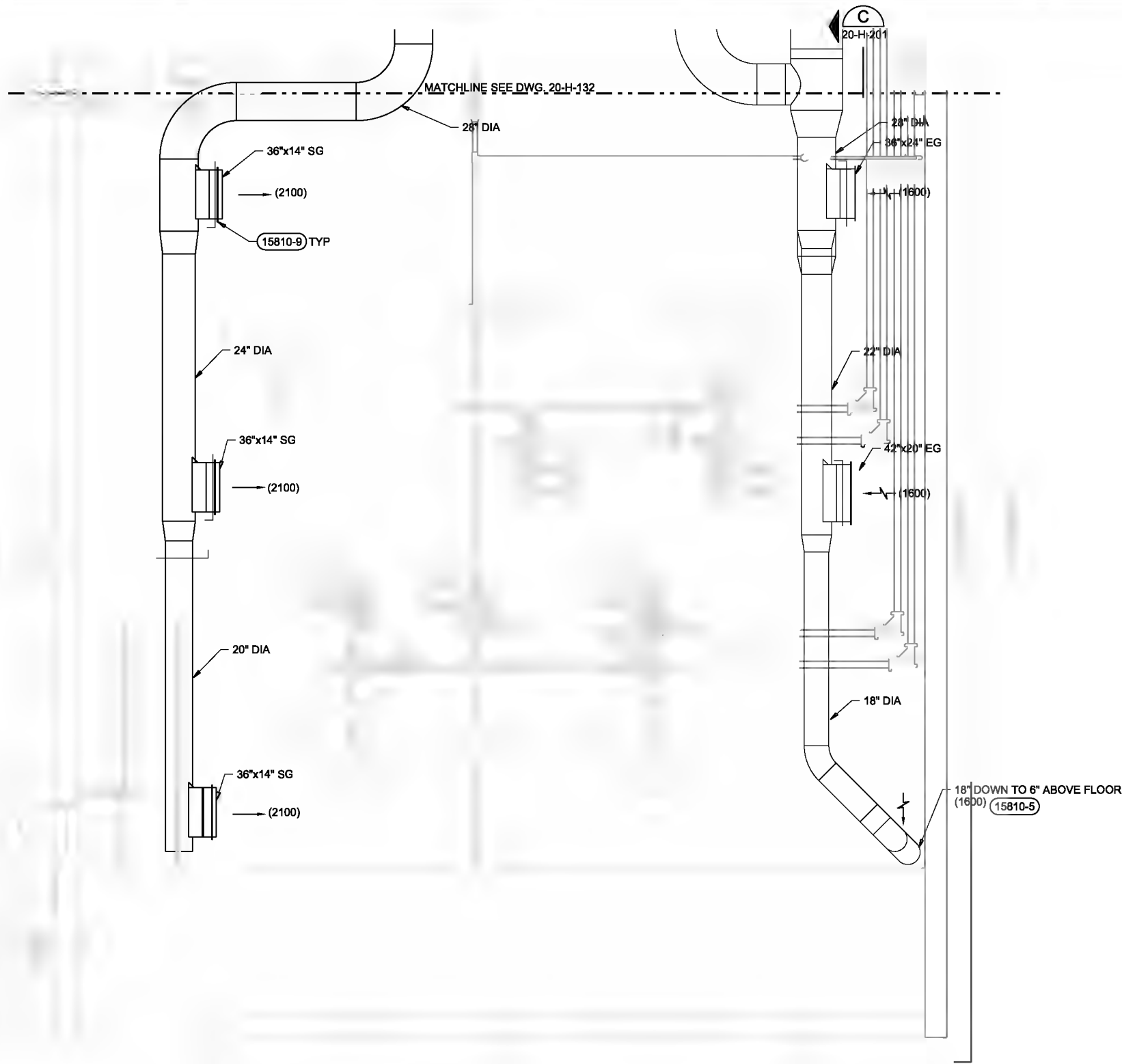
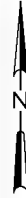


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

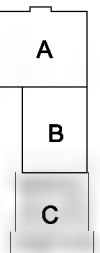
HEADWORKS
HVAC
LOWER LEVEL PLAN - B
(SCREENING)

| | |
|-------|-------------|
| SHEET | 249 |
| DWG | 20-H-132 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2MHILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL.



LOWER LEVEL PLAN - C
1/4"=1'-0"



KEY PLAN

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY TOM J. REJFIR STATE OF OREGON, P.E. NO. 13,614.

| | | | | | | |
|--------|--------------|-----|------|----------|----|------|
| DESIGN | R. WELP | NO. | DATE | REVISION | BY | APVD |
| DR | S. HOSTETLER | | | | | |
| CHK | T. REJFIR | | | | | |
| APVD | C. WASSIE | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
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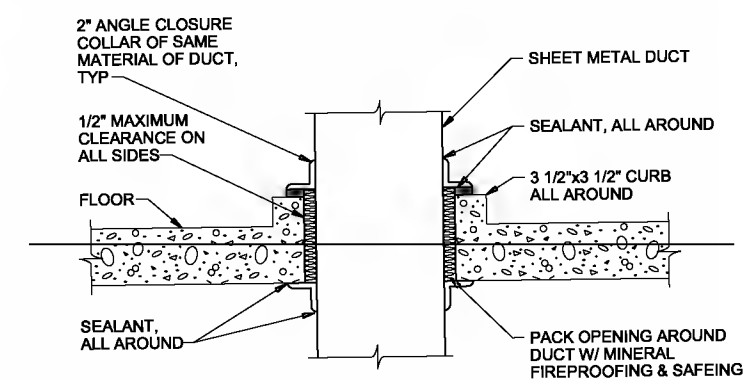
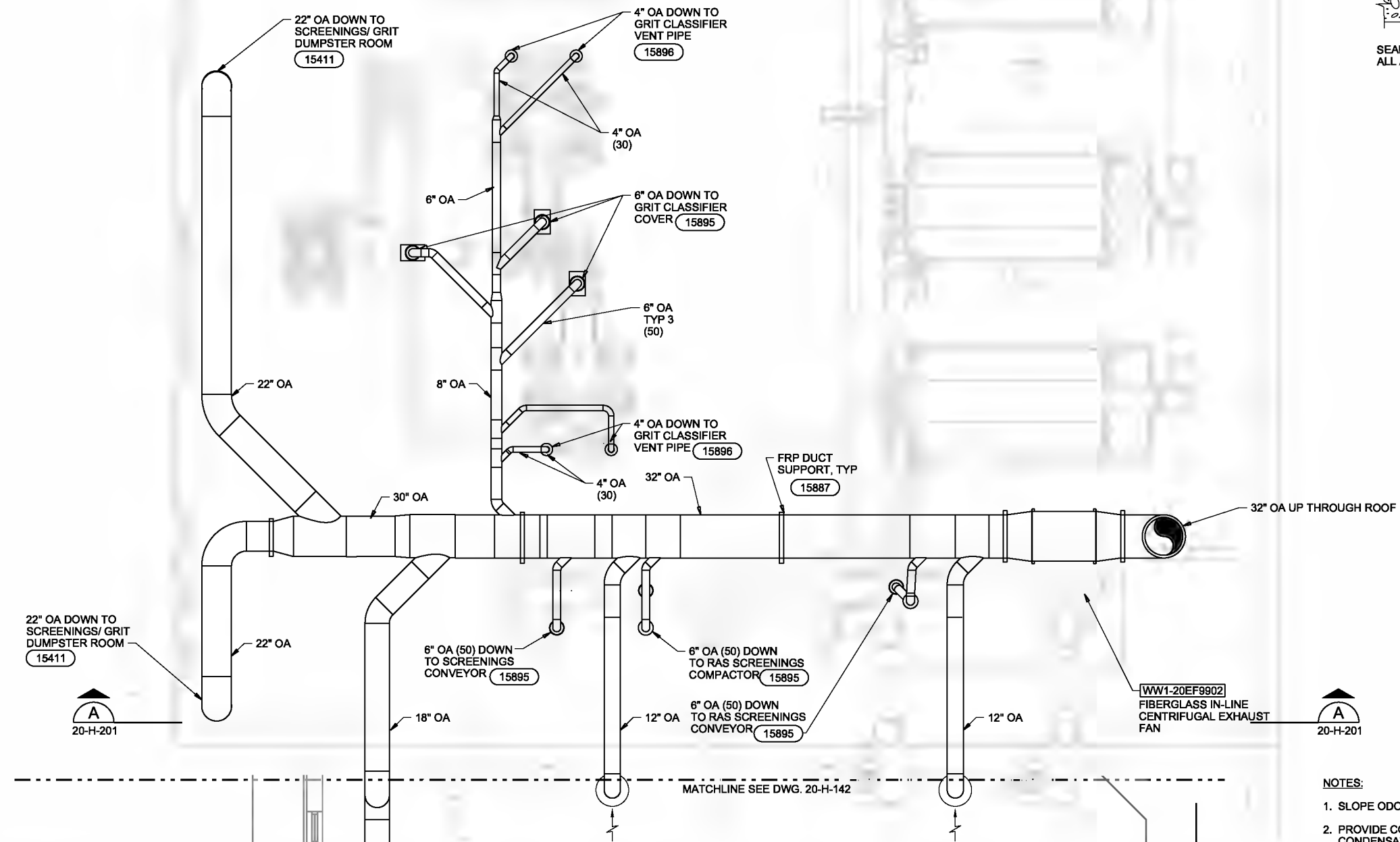
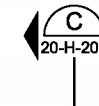
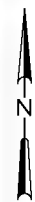
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
HVAC
LOWER LEVEL PLAN - C
(GRIT)

| | |
|-------|-------------|
| SHEET | 250 |
| DWG | 20-H-133 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

FILENAME: 20h133d_326918.dwg PLOT DATE: 6/19/2010 PLOT TIME: 2:29:40 PM

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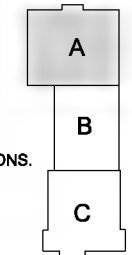
DETAIL 15411



UPPER LEVEL PLAN - A
1/4"=1'-0"

NOTES:

1. SLOPE ODOROUS AIR (OA) DUCTWORK TO DRAIN BACK TO AIR INTAKE LOCATIONS.
2. PROVIDE CONDENSATE DRAIN IN ANY LOW POINTS IN OA DUCTWORK WHERE CONDENSATE CANNOT DRAIN. (15898)
3. SEE SPECIFICATION SECTION 15815 FOR OA DUCTWORK AND ACCESSORIES.
4. FOR SUPPORT OF FRP DUCTWORK FROM ROOF STRUCTURE SEE (15887)



KEY PLAN

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY TOM J. REJFA, STATE OF OREGON, P.E. NO. 13,614.

| | | | | | | | | | |
|--------|------------|----------|------|----------|----|------|-----|-----|--|
| DESIGN | R. WELP | | | | | | | | |
| DR | R. DRAHISH | | | | | | | | |
| CHK | T. REJFA | 01/20/10 | | | | | | | |
| APVD | C. WASSIE | NO. | DATE | REVISION | BY | APVD | BRK | KEG | |

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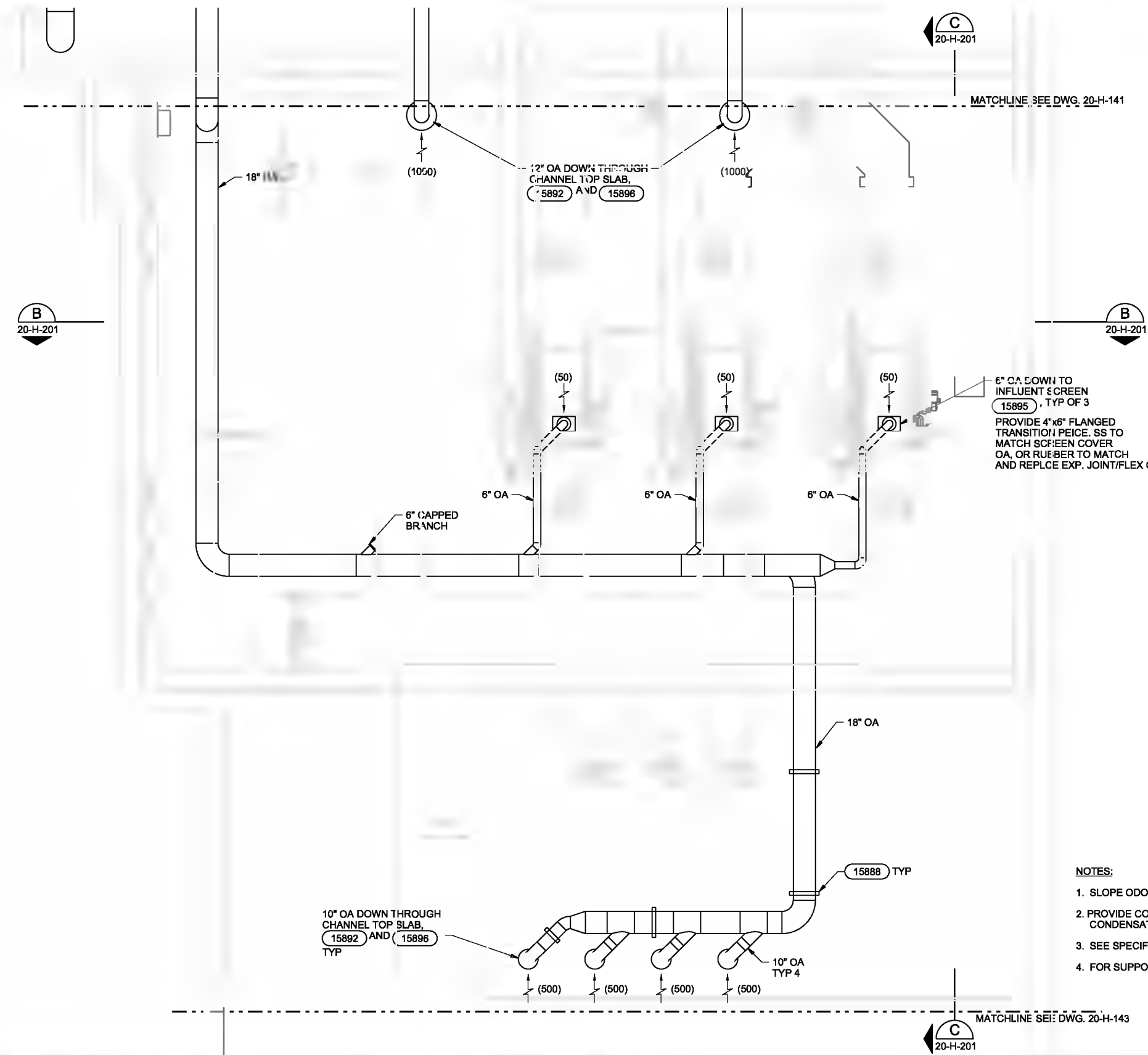
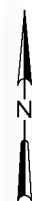


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
HVAC
UPPER LEVEL PLAN - A
(SOLIDS HANDLING)

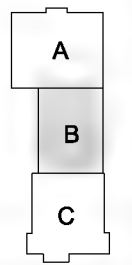
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|-------|-------------|
| SHEET | 251 |
| DWG | 20-H-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
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 2. PROVIDE CONDENSATE DRAIN IN ANY LOW POINTS IN OA DUCTWORK WHERE CONDENSATE CANNOT DRAIN. (15898)
 3. SEE SPECIFICATION SECTION 15815 FOR OA DUCTWORK AND ACCESSORIES.
 4. FOR SUPPORT OF FRP DUCTWORK FROM ROOF STRUCTURE SEE. (15887)

UPPER LEVEL PLAN - B
1/4"=1'-0"



KEY PLAN

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| | | | | | |
|--------|-----------|----------|------|----------|----|
| DESIGN | R. WELP | | | | |
| DR | R. WELP | | | | |
| CHK | T. REJFR | 01/20/06 | | | |
| APPROV | C. WASSIE | NO. | DATE | REVISION | BY |

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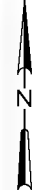


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
HVAC
UPPER LEVEL PLAN - B
(SCREENING)

| | |
|-------|-------------|
| SHEET | 252 |
| DWG | 20-H-142 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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C
20-H-201

MATCHLINE SEE DWG. 20-H-142

12" AIR INTAKE
*15894

12" AIR INTAKE
*15894

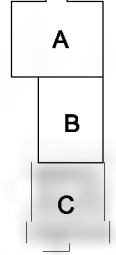
12" AIR INTAKE
*15894

12" AIR INTAKE
*15894

15894
12" THROAT RADIOUS ELBOWS FOR GOOSE NECK VENTS

C
20-H-201

UPPER LEVEL PLAN - C
1/4"=1'-0"



KEY PLAN

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| | | | | | | |
|--------|--------------|-----|------|----------|----|------|
| DESIGN | R. WELP | NO. | DATE | REVISION | BY | APVD |
| DR | R. DRAIBISH | | | | | |
| CHK | T. REJFIR | | | | | |
| APVD | C. W. MASSIE | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
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0" — 1"
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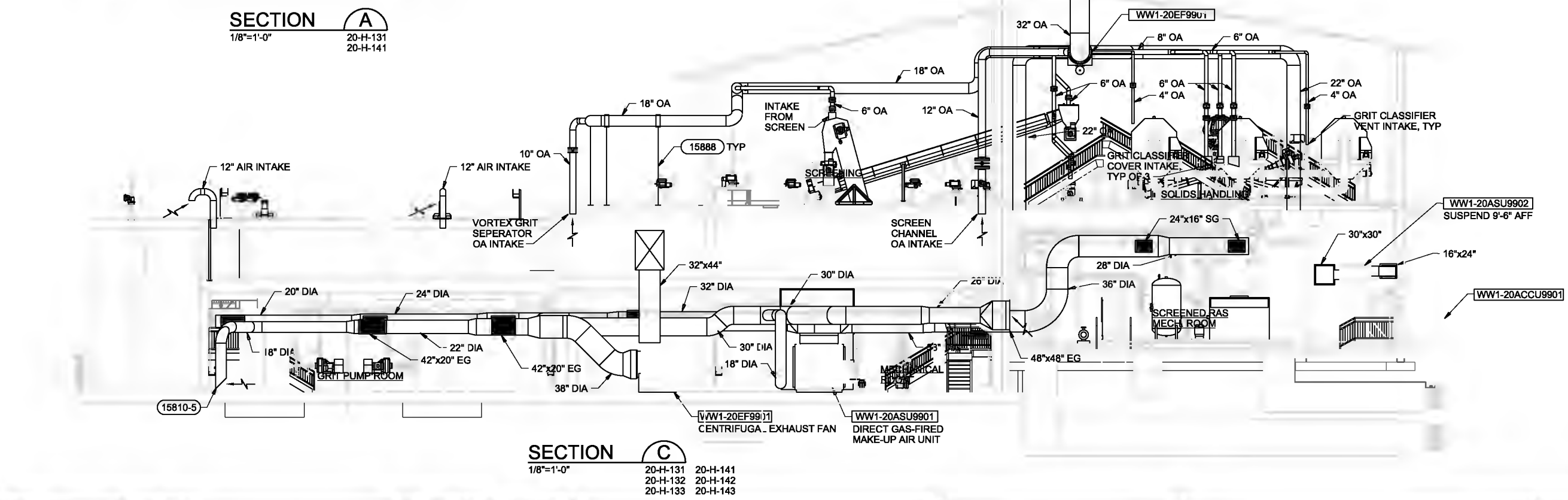
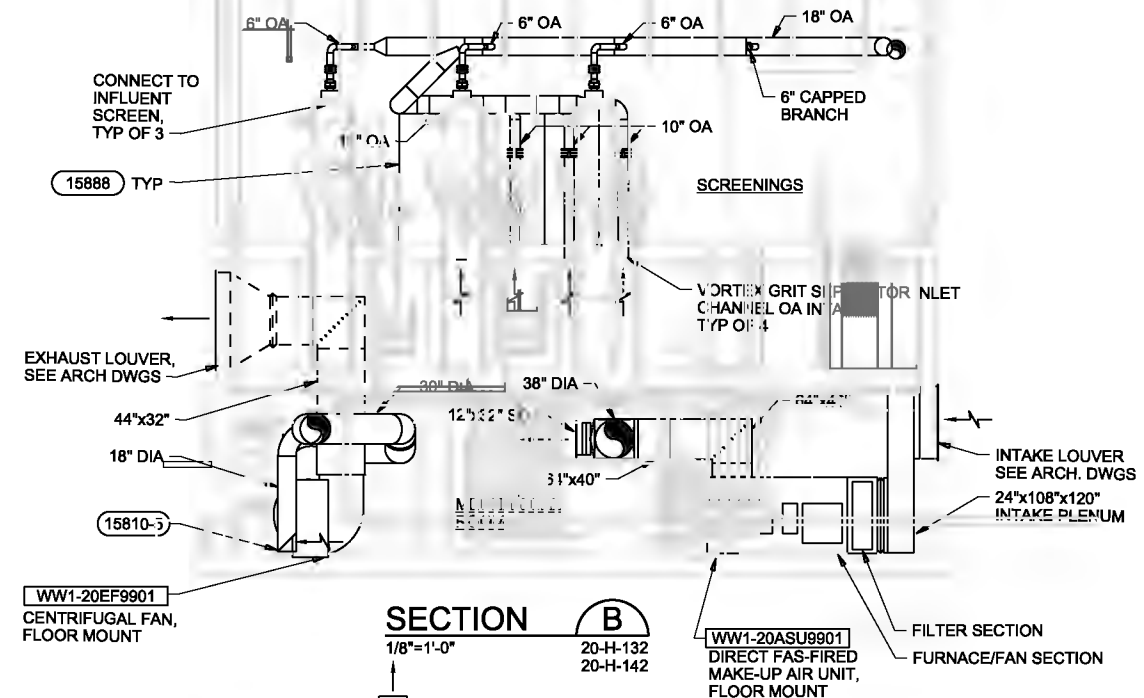
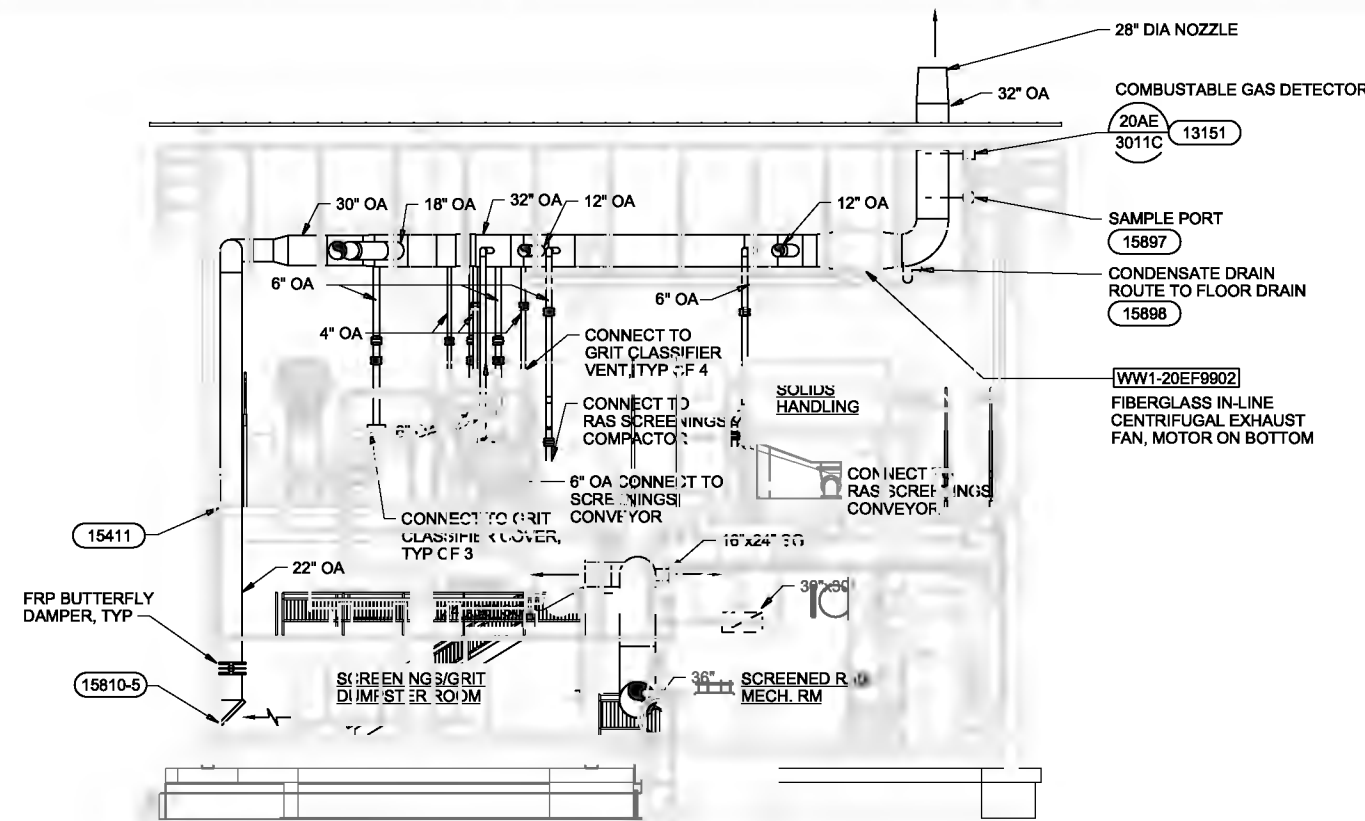


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
HVAC
UPPER LEVEL PLAN - C
(GRIT)

| | |
|-------|-------------|
| SHEET | 253 |
| DWG | 20-H-143 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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| | | | | | | | |
|------|--------------|-----|------|----------|-----|-----|------|
| DSGN | KL WELP | NO. | DATE | REVISION | BRK | KEG | APVD |
| DR | SL HOSTETLER | | | | | | |
| CHK | TJ REJFIR | | | | | | |
| APVD | CW MASSIE | | | | | | |

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CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

HEADWORKS
 HVAC
 SECTIONS

| | |
|-------|-------------|
| SHEET | 254 |
| DWG | 20-H-201 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOT USED

1 2 3 4 5 6

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B
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| | | | | | |
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| DSGN | | | | | |
| DR | D.MONK | | | | |
| CHK | | | | | |
| APVD | | 01/20/10 | | | |
| | NO. | DATE | REVISION | BY | APVD |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

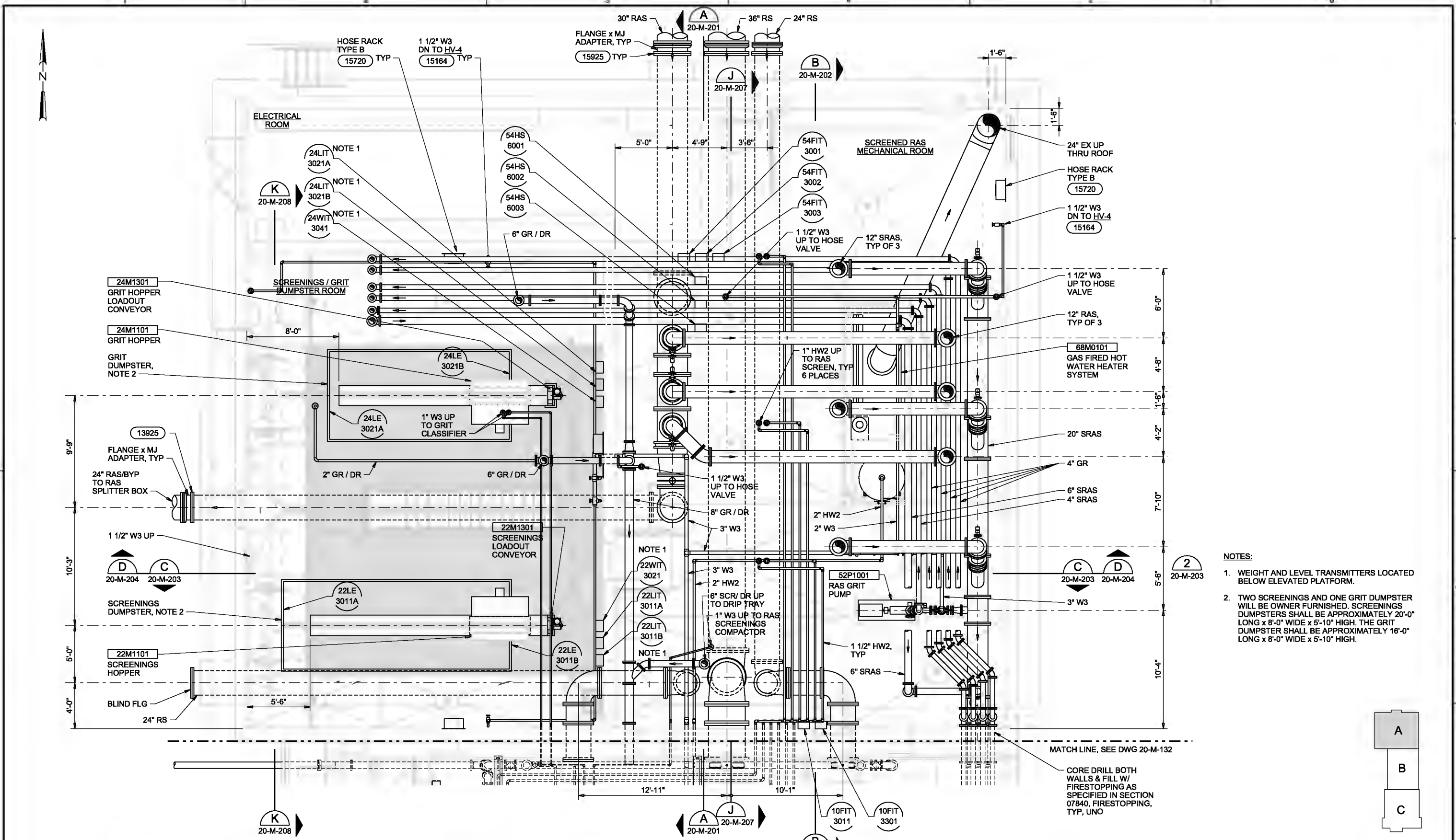
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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

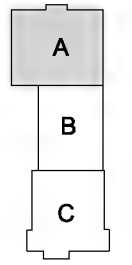
HEADWORKS
HVAC
DETAILS

| | |
|-------|----------|
| SHEET | 255 |
| DWG | 20-H 401 |
| DATE | CDD-DATE |
| PROJ | 326918 |



LOWER LEVEL PLAN - A
1/4"=1'-0"

- NOTES:**
1. WEIGHT AND LEVEL TRANSMITTERS LOCATED BELOW ELEVATED PLATFORM.
 2. TWO SCREENINGS AND ONE GRIT DUMPSTER WILL BE OWNER FURNISHED. SCREENINGS DUMPSTERS SHALL BE APPROXIMATELY 20'-0" LONG x 8'-0" WIDE x 5'-10" HIGH. THE GRIT DUMPSTER SHALL BE APPROXIMATELY 16'-0" LONG x 8'-0" WIDE x 5'-10" HIGH.



KEY PLAN

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| | | | | | | | |
|------|------------|----------|------|----------|----|------|--|
| DSGN | AG CHANG | | | | | | |
| DR | ER BROWN | | | | | | |
| CHK | BR JOHNSON | 01/20/10 | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | |

VERIFY SCALE
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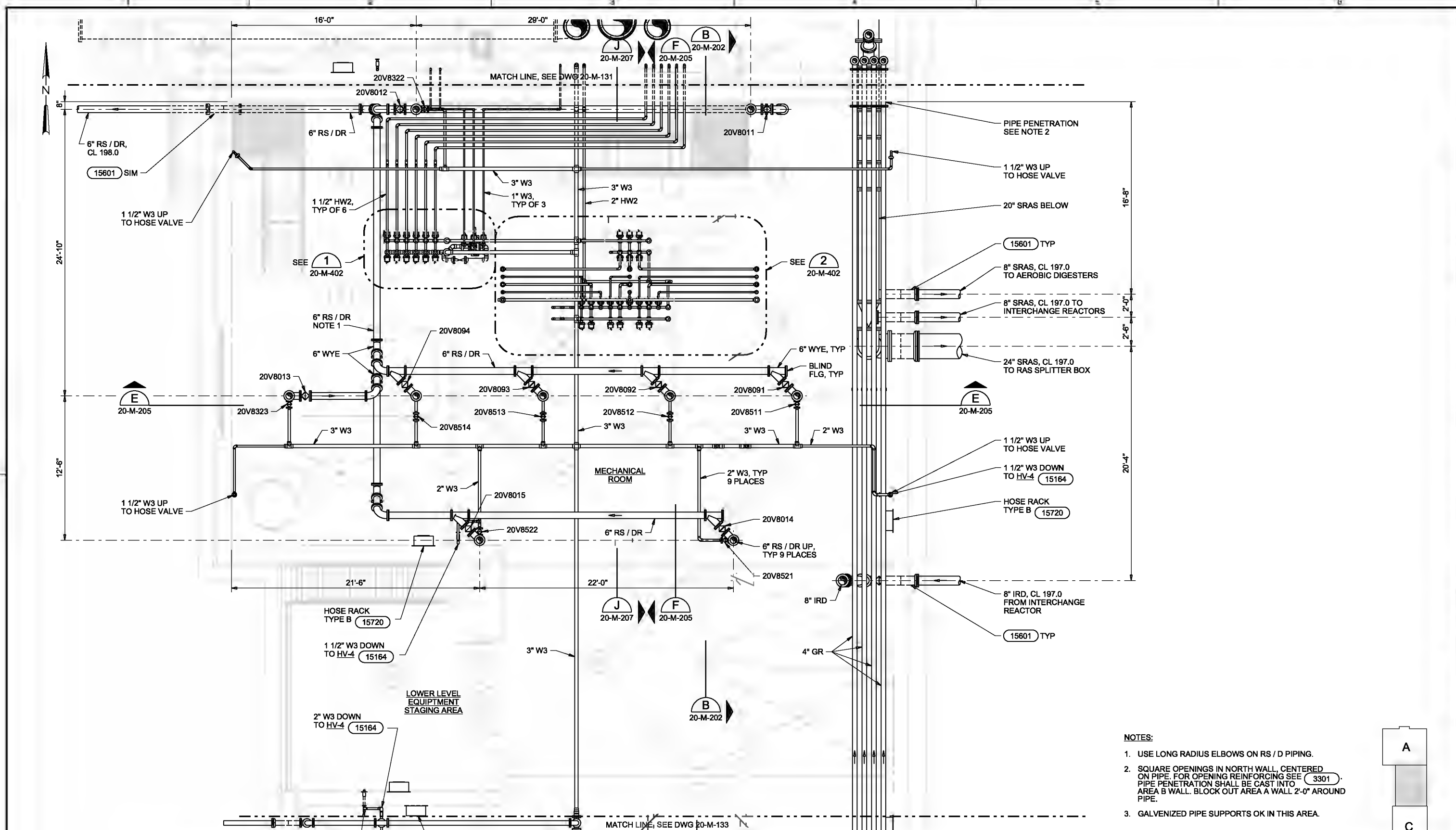


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
**MECHANICAL
LOWER LEVEL PLAN - A
(SOLIDS HANDLING)**

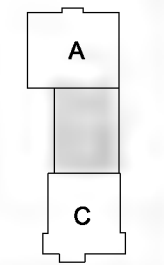
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| SHEET | 256 |
| DWG | 20-M-131 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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LOWER LEVEL PLAN - B
1/4"=1'-0"

- NOTES:**
1. USE LONG RADIUS ELBOWS ON RS / D PIPING.
 2. SQUARE OPENINGS IN NORTH WALL, CENTERED ON PIPE. FOR OPENING REINFORCING SEE 3301. PIPE PENETRATION SHALL BE CAST INTO AREA B WALL. BLOCK OUT AREA A WALL 2'-0" AROUND PIPE.
 3. GALVANIZED PIPE SUPPORTS OK IN THIS AREA.



KEY PLAN

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| | | | | | | | |
|------|------------|----------|------|----------|----|------|--|
| DSGN | AG CHANG | | | | | | |
| DR | ER BROWN | | | | | | |
| CHK | BR JOHNSON | 01/20/10 | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
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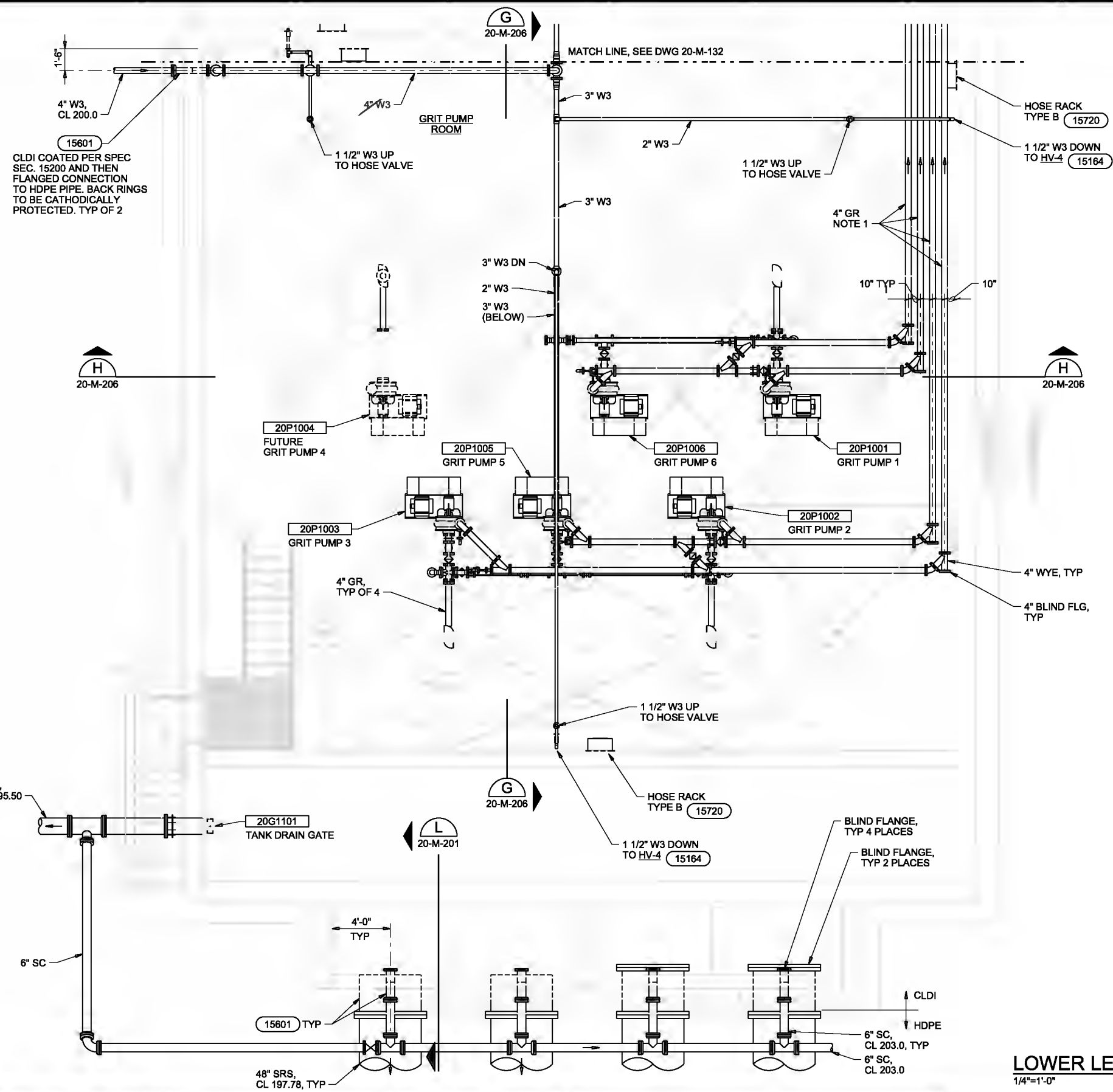
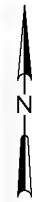


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
MECHANICAL LOWER LEVEL PLAN - B (SCREENING)

| | |
|-------|-------------|
| SHEET | 257 |
| DWG | 20-M-132 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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15601
CLDI COATED PER SPEC SEC. 15200 AND THEN FLANGED CONNECTION TO HDPE PIPE. BACK RINGS TO BE CATHODICALLY PROTECTED. TYP OF 2

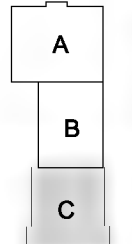
H
20-M-206

H
20-M-206

G
20-M-206

L
20-M-201

- NOTES:
1. USE LONG RADIUS ELBOWS ON GRIT PIPING.
 2. GALVANIZED PIPE SUPPORTS OK IN THIS AREA.



KEY PLAN

LOWER LEVEL PLAN - C
1/4"=1'-0"

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|------|------------|----------|------|----------|----|
| DSGN | AG CHANG | | | | |
| DR | EA BROWN | | | | |
| CHK | BR JOHNSON | 01/20/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0" = 1'
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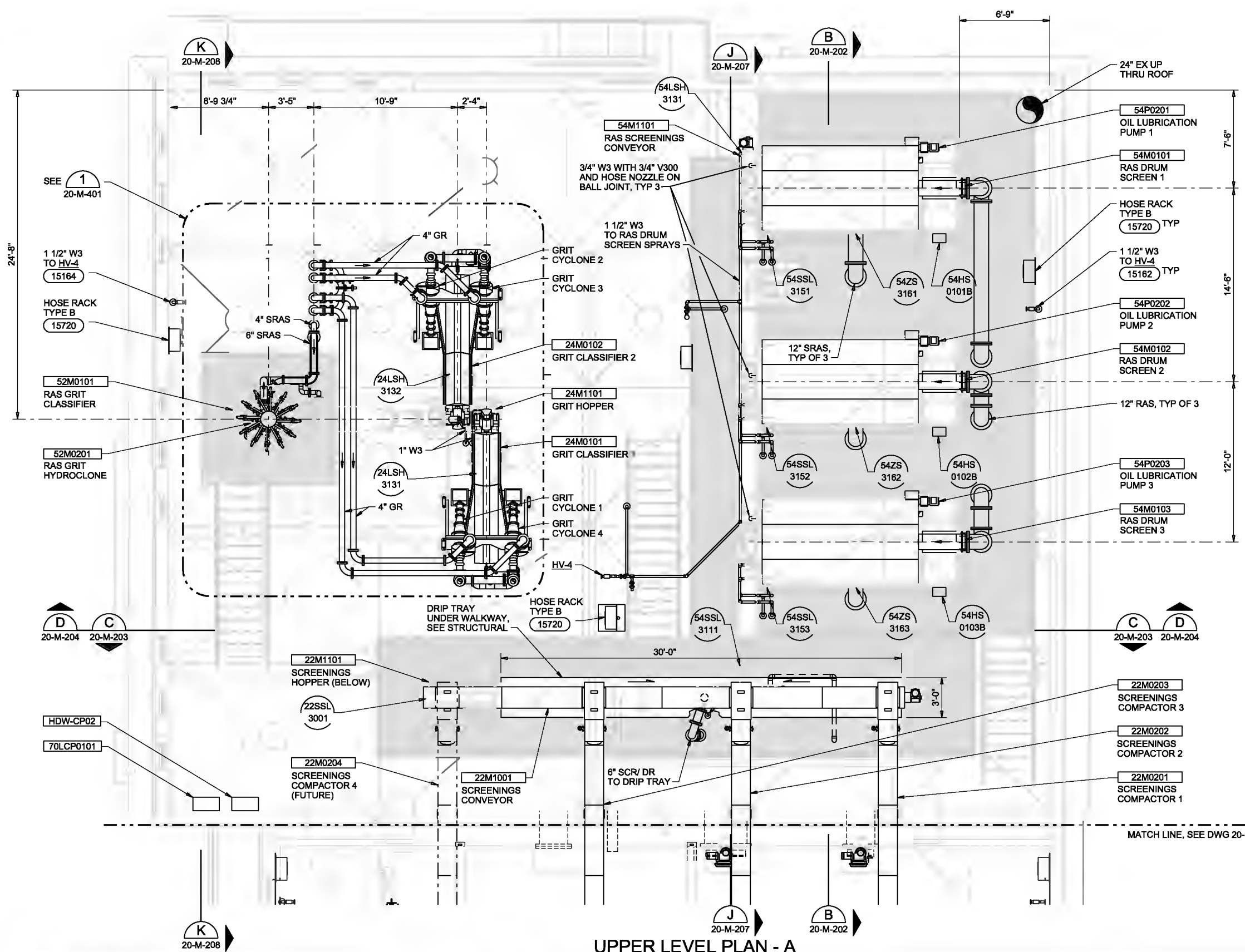
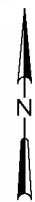


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

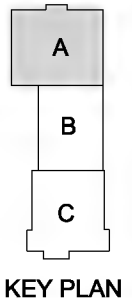
HEADWORKS
MECHANICAL LOWER LEVEL PLAN - C (GRIT)

| | |
|-------|-------------|
| SHEET | 258 |
| DWG | 20-M-133 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
- LIQUID PIPING 3" AND SMALLER IN THE SOLIDS HANDLING AREA AND IN THE SCREENING AREA ABOVE ELEVATION 221 AND WHERE SHOWN ON THE DRAWINGS SHALL BE HEAT TRACED AND INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS, AND IN SECTION 16055, PIPE HEAT TRACING.
 - LIQUID PIPING 6" AND SMALLER IN THE SOLIDS HANDLING AREA AND IN THE SCREENING AREA ABOVE ELEVATION 221 AND WHERE SHOWN ON THE DRAWINGS SHALL BE INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS.



UPPER LEVEL PLAN - A
1/4"=1'-0"

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| DSGN | AG CHANG | | | | | | |
| DR | ER BROWN | | | | | | |
| CHK | BR JOHNSON | 01/20/10 | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | |

VERIFY SCALE
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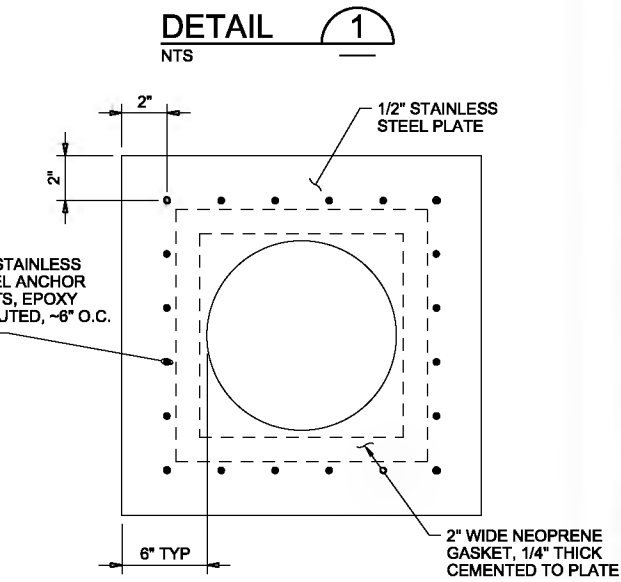
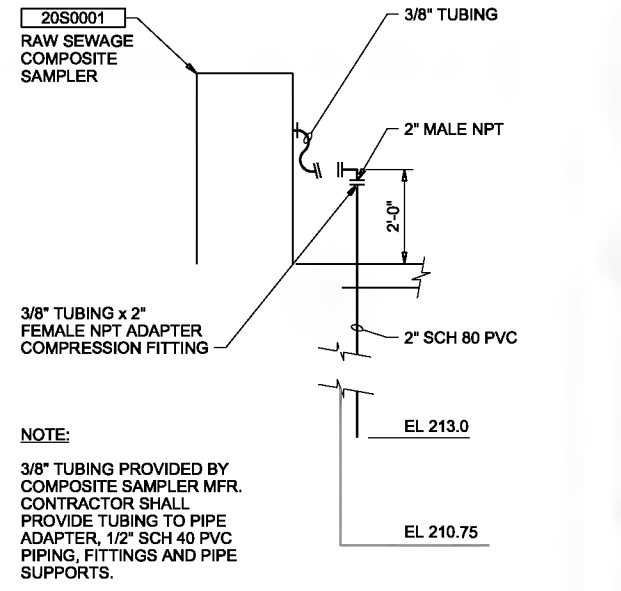
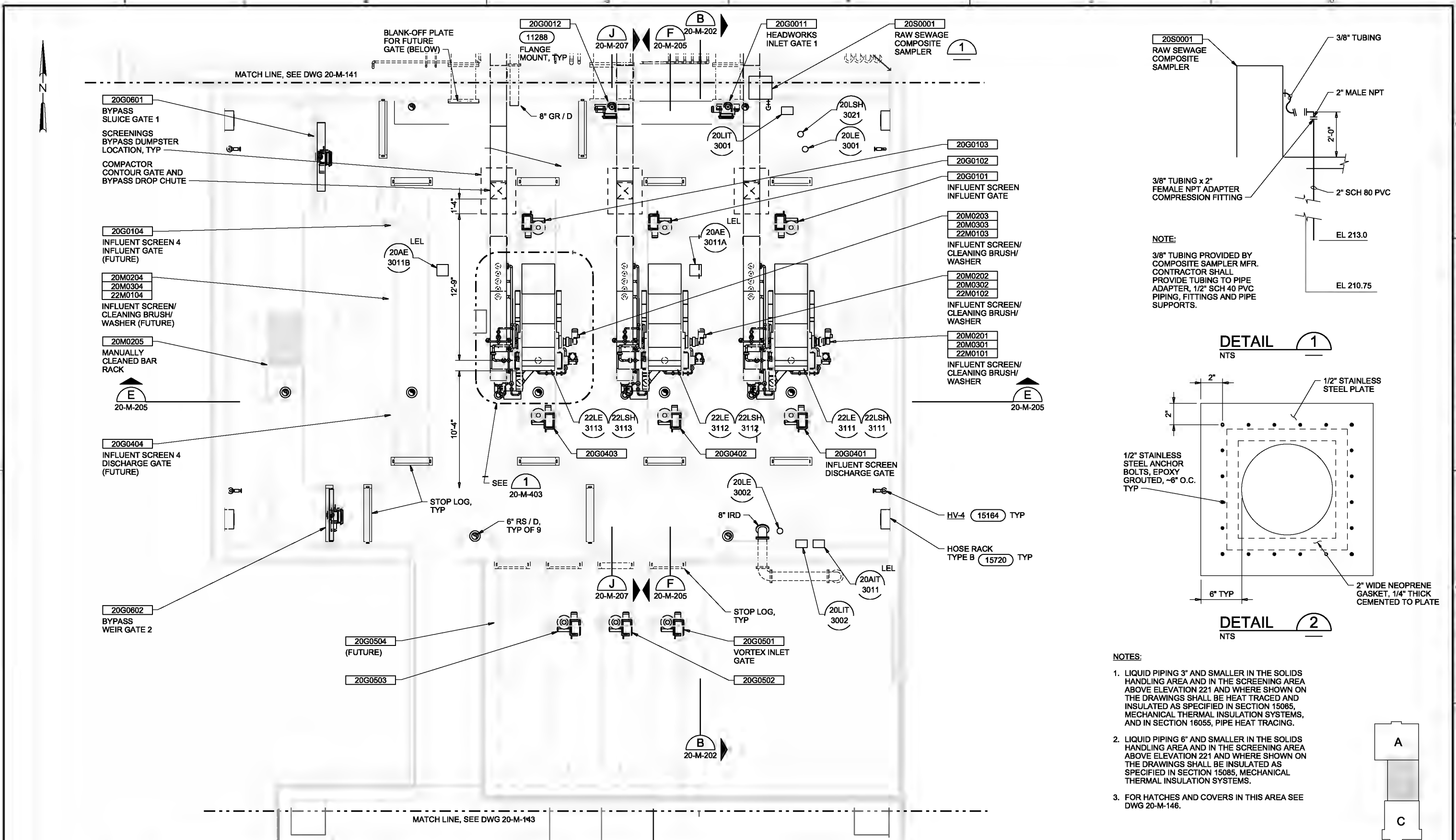


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

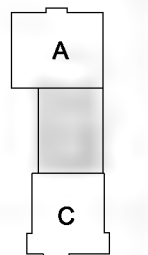
HEADWORKS
MECHANICAL
UPPER LEVEL PLAN - A
(SOLIDS HANDLING)

| | |
|-------|-------------|
| SHEET | 259 |
| DWG | 20-M-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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 - LIQUID PIPING 6" AND SMALLER IN THE SOLIDS HANDLING AREA AND IN THE SCREENING AREA ABOVE ELEVATION 221 AND WHERE SHOWN ON THE DRAWINGS SHALL BE INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS.
 - FOR HATCHES AND COVERS IN THIS AREA SEE DWG 20-M-146.



UPPER LEVEL PLAN - B
1/4"=1'-0"

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| DSGN | AG CHANG | | | | |
| DR | EL BROWN | | | | |
| CHK | BR JOHNSON | 01/20/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

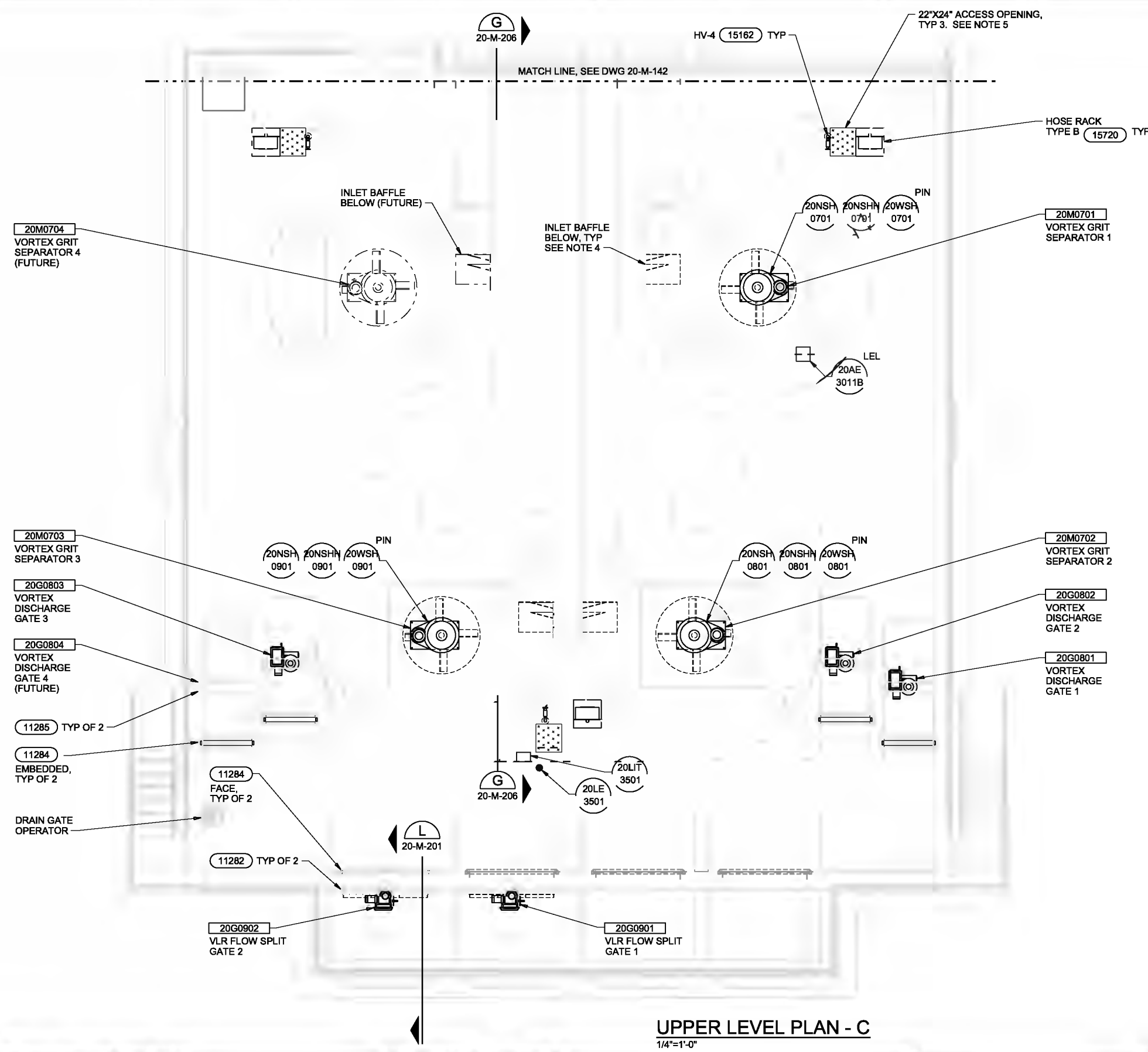
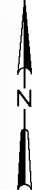


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

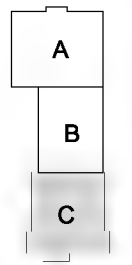
HEADWORKS
MECHANICAL
UPPER LEVEL PLAN - B
(SCREENING PLAN)

| | |
|-------|-------------|
| SHEET | 260 |
| DWG | 20-M-142 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
- LIQUID PIPING 3" AND SMALLER IN THE SOLIDS HANDLING AREA AND IN THE SCREENING AREA ABOVE ELEVATION 221 AND WHERE SHOWN ON THE DRAWINGS SHALL BE HEAT TRACED AND INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS, AND IN SECTION 16055, PIPE HEAT TRACING.
 - LIQUID PIPING 6" AND SMALLER IN THE SOLIDS HANDLING AREA AND IN THE SCREENING AREA ABOVE ELEVATION 221 AND WHERE SHOWN ON THE DRAWINGS SHALL BE INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS.
 - FOR HATCHES AND COVERS IN THIS AREA SEE DWG 20-M-147.
 - INLET BAFFLE PROVIDED BY VORTEX GRIT SEPARATOR MANUFACTURER. COORDINATE INSTALLATION LOCATION WITH MANUFACTURER.
 - INSTALL 4" HIGH AND 6" WIDE CURB AROUND SLAB OPENINGS SIMILAR TO DETAIL (15162). INSTALL 3/8" ALUMINUM CHECKED PLATE ON TOP OF CURB, ANCHORED WITH 3/8" FLUSH, SHELL ANCHOR AT EACH CORNER CENTERED IN CURB. PLATE EDGES SHOULD BE 3/4" BACK FROM THE OUTSIDE EDGE OF CURB AND BE GROUND SMOOTH. THE W3 PIPES IN THE VOID AREAS WILL REQUIRE ADDITIONAL MIDSPAN SUPPORT AS PER SECTION 15060.



UPPER LEVEL PLAN - C
1/4"=1'-0"

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY ALAN G. CHANG STATE OF OREGON, P.E. NO. 74,677PE.

| | | | | | |
|------|------------|----------|------|----------|----|
| DSGN | AG CHANG | | | | |
| DR | ER BROWN | | | | |
| CHK | BR JOHNSON | 01/20/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

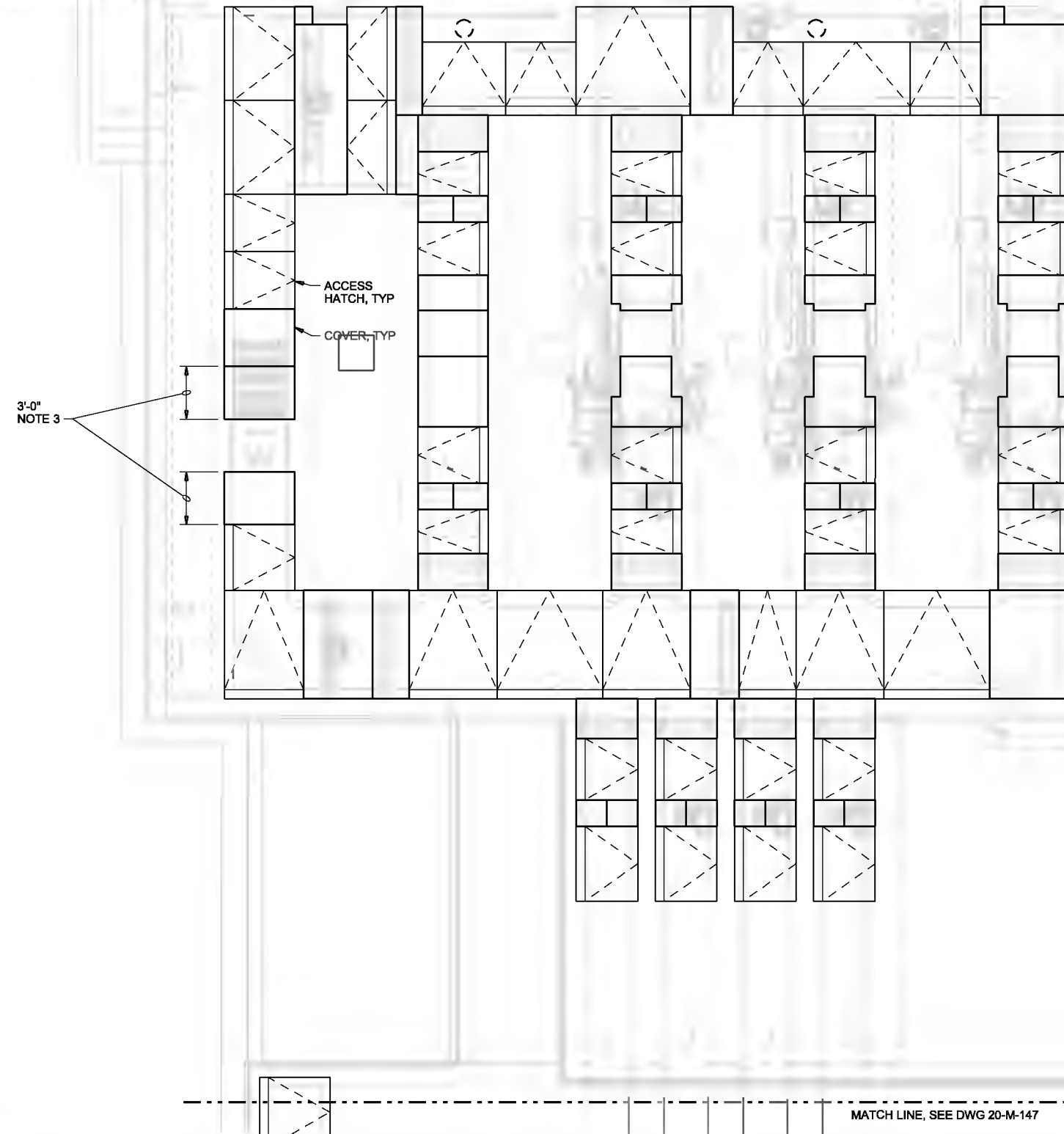
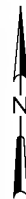


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
MECHANICAL
UPPER LEVEL PLAN - C
(GRIT)

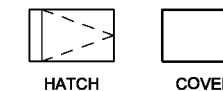
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|-------|-------------|
| SHEET | 261 |
| DWG | 20-M-143 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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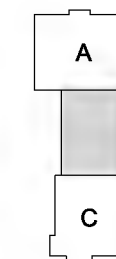
SECTION A
1/4"=1'-0"

LEGEND:



NOTES:

- HATCHES AND COVERS ARE SHOWN FOR SCHEMATIC PURPOSES ONLY. CONTRACTOR SHALL DESIGN HATCHES AND COVERS PER SPECIFICATION 05500 AND COORDINATE WITH THE HATCH MANUFACTURER.
- PROVIDE MIN 1'-0" WIDE REMOVABLE COVERS OVER BUTTERFLY GATES AND STOP LOG CHANNELS. COVERS OVER BUTTERFLY GATES SHALL HAVE MINIMUM TWO SECTIONS. COORDINATE DESIGN OF COVERS AND PLATE WITH HATCH MANUFACTURER TO PROVIDE CONTINUOUS SEAL AROUND THE COVER. DESIGN AND PROVIDE REMOVABLE SEAL AROUND ALL PENETRATIONS SUCH AS GATE FRAMES, GATE STEMS, FLOOR STANDS AND INSTRUMENTS.
- PROVIDE REMOVABLE ALUMINUM COVERS ADJACENT TO INFLUENT SCREENS AND BAR RACK. COORDINATE DESIGN OF COVERS AND PLATE WITH HATCH AND INFLUENT SCREEN MANUFACTURER TO PROVIDE CONTINUOUS SEAL AROUND THE COVERS. DESIGN AND PROVIDE REMOVABLE SEALS AROUND EQUIPMENT PENETRATIONS.
- PIPE, GATE FRAME, GATE STEM, SCREENS AND INSTRUMENT PENETRATIONS ARE NOT SHOWN FOR CLARITY. SEE DWG 20-M-142.



KEY PLAN

UPPER LEVEL HATCH PLAN - B
1/4"=1'-0"

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY ALAN G. CHANG STATE OF OREGON, P.E. NO. 74,671PE.

| | | | | | | | |
|------|------------|--|-----|------|----------|----|------|
| DSGN | AG CHANG | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | NO. | DATE | REVISION | BY | APVD |
| DR | ER BROWN | | | | | | |
| CHK | BR JOHNSON | | | | | | |
| APVD | CW MASSIE | | | | | | |

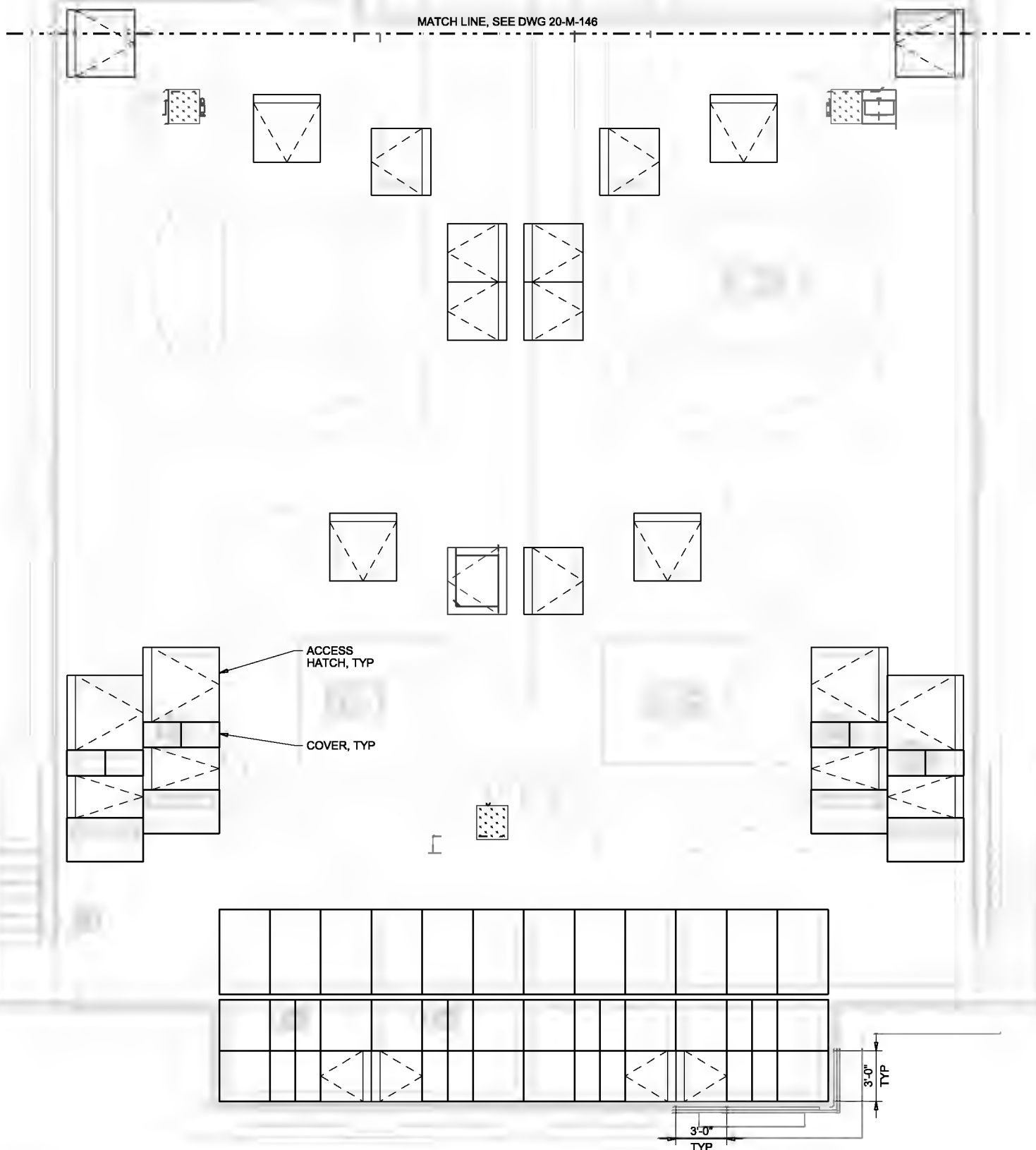
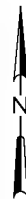
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
MECHANICAL
UPPER LEVEL HATCH PLAN - B
(SCREENING)

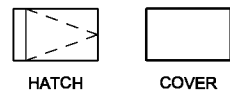
| | |
|-------|-------------|
| SHEET | 262 |
| DWG | 20-M-146 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |



ACCESS
HATCH, TYP

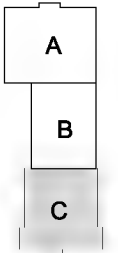
COVER, TYP

LEGEND:



NOTES:

1. HATCHES AND COVERS ARE SHOWN FOR SCHEMATIC PURPOSES ONLY. CONTRACTOR SHALL DESIGN HATCHES AND COVERS PER SPECIFICATION 05500 AND COORDINATE WITH THE HATCH MANUFACTURER.
2. PROVIDE MIN 1'-0" WIDE REMOVABLE COVERS OVER BUTTERFLY GATES AND STOP LOG CHANNELS. COVERS OVER BUTTERFLY GATES SHALL HAVE MINIMUM TWO SECTIONS. COORDINATE DESIGN OF COVERS AND PLATE WITH HATCH MANUFACTURER TO PROVIDE CONTINUOUS SEAL AROUND THE COVER. DESIGN AND PROVIDE REMOVABLE SEAL AROUND ALL PENETRATIONS SUCH AS GATE FRAMES, GATE STEMS, FLOOR STANDS AND INSTRUMENTS.
3. PIPE, GATE FRAME, GATE STEM, SCREENS AND INSTRUMENT PENETRATIONS ARE NOT SHOWN FOR CLARITY. SEE DWG 20-M-143.



KEY PLAN

UPPER LEVEL HATCH PLAN - C
1/4"=1'-0"

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY ALAN G. CHANG STATE OF OREGON, P.E. NO. 74,677PE.

| | | | | | | | | | |
|------|------------|-----|------|----------|----|------|-----|-----|--|
| DSGN | AG CHANG | NO. | DATE | REVISION | BY | APVD | BRK | AGC | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT |
| DR | ER BROWN | | | | | | | | |
| CHK | BR JOHNSON | | | | | | | | |
| APVD | CW MASSIE | | | | | | | | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



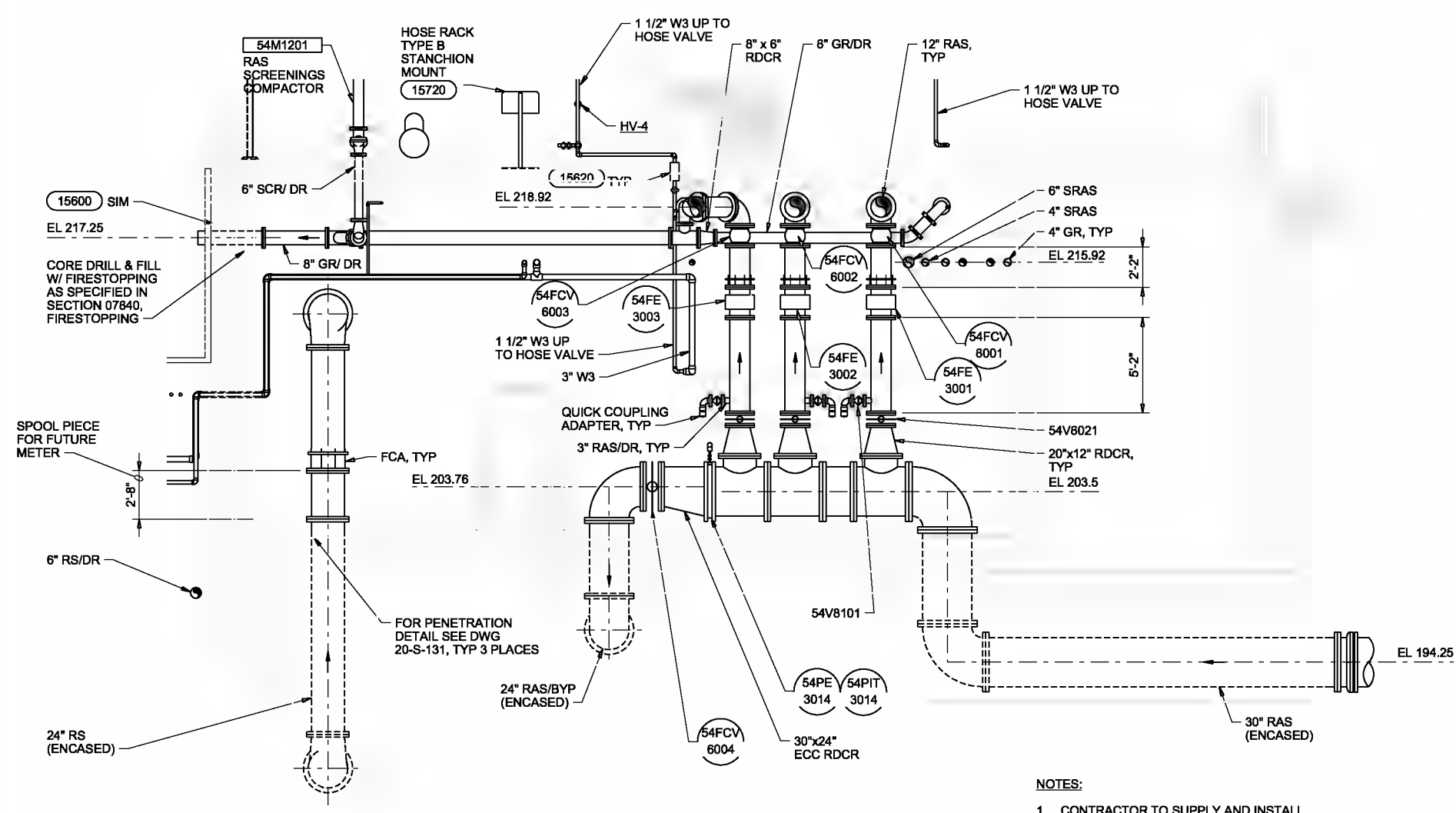
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
MECHANICAL
UPPER LEVEL HATCH PLAN - C
(GRIT)

| | |
|-------|-------------|
| SHEET | 263 |
| DWG | 20-M-147 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

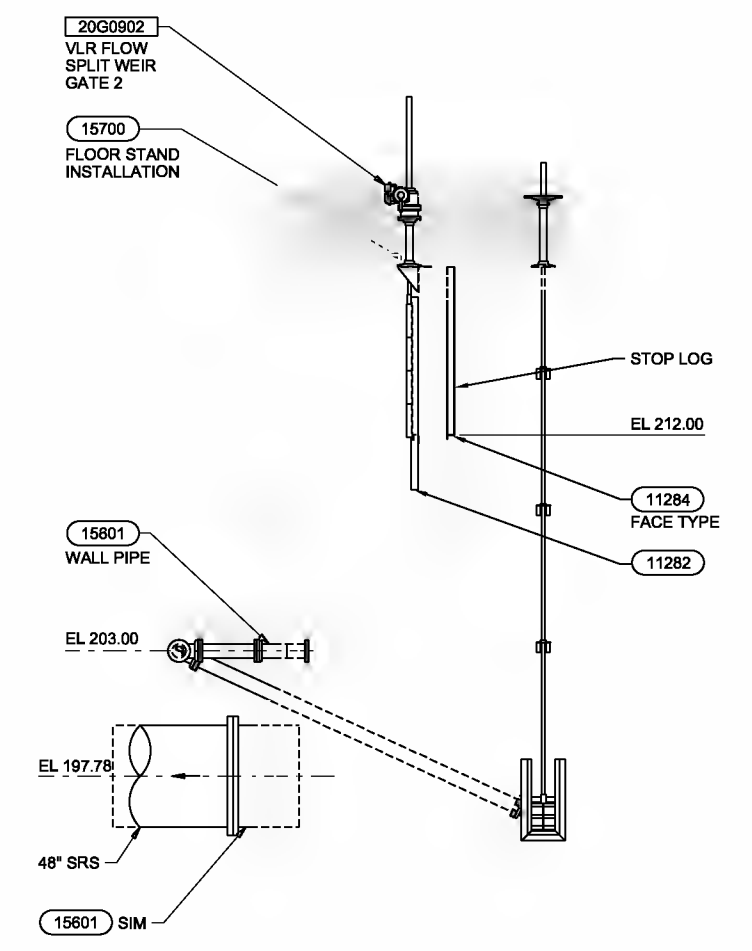
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SECTION A
1/4"=1'-0" 20-M-131

- NOTES:**
- CONTRACTOR TO SUPPLY AND INSTALL PIPE SUPPORTS IN ACCORDANCE WITH SPECIFICATION NO. 15060.



SECTION L
1/4"=1'-0" 20-M-133 20-M-143

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY ALAN G. CHANG STATE OF OREGON, P.E. NO. 74,679E.

| | | | |
|----------|-----------|------|----------|
| DESIGNER | ALG/CHANG | DATE | 01/20/06 |
| CHECKER | ALG/CHANG | DATE | |
| APPROVER | | DATE | |

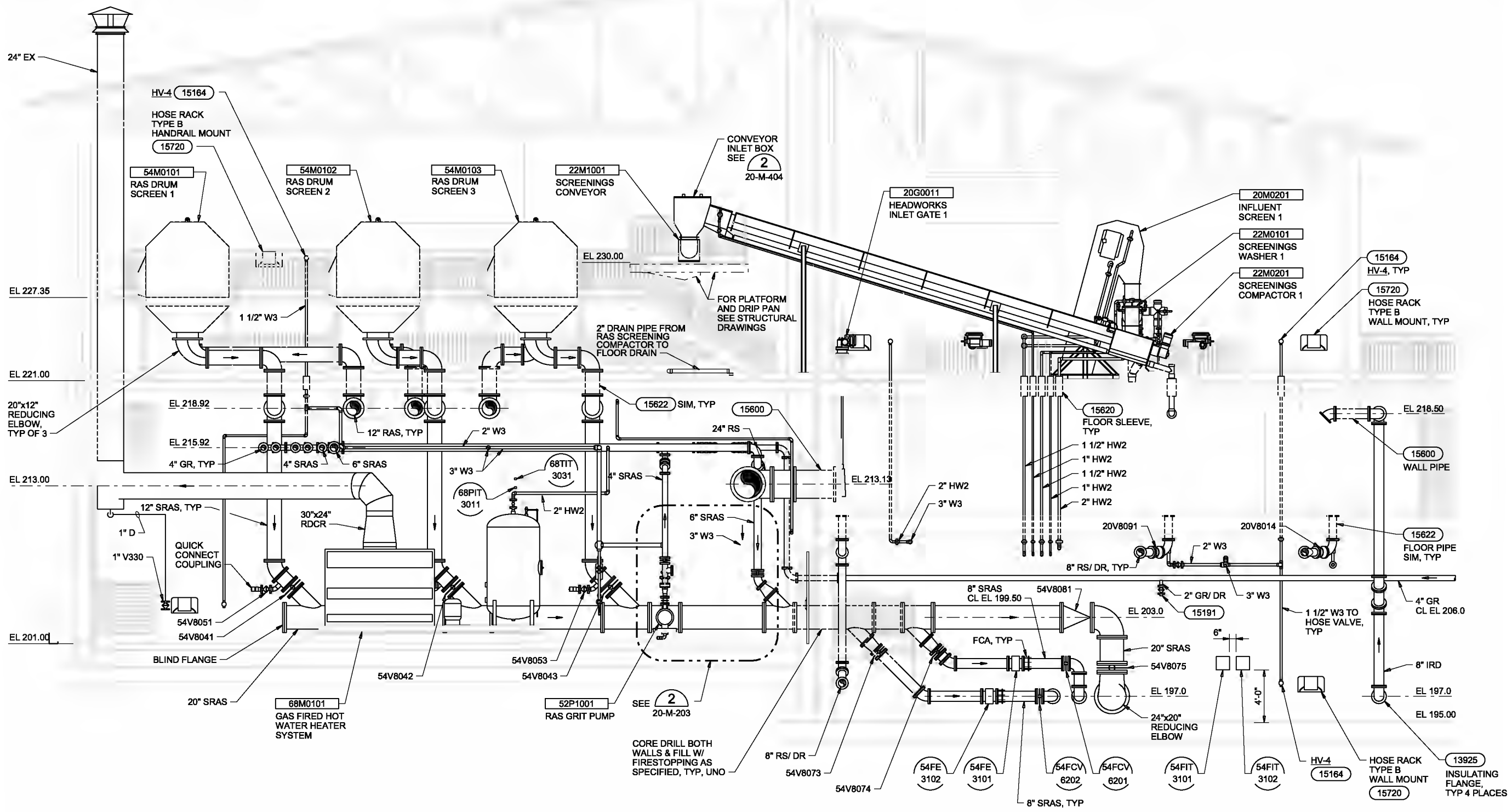
VERIFIED SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
MECHANICAL SECTIONS

| | |
|-------|-------------|
| SHEET | 264 |
| DWG | 20-M-201 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |



SECTION B
 1/4"=1'-0" 20-M-131
 20-M-132
 20-M-141
 20-M-142

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY ALAN G. CHANG STATE OF OREGON, P.E. NO. 74,671PE.

| | | | | | |
|------|------------|----------|----------|---------|---------|
| DSGN | AG CHANG | | | | |
| DR | EL BROWN | | | | |
| CHK | BR JOHNSON | 01/28/10 | | | |
| APVD | CW MASSIE | NO. DATE | AS-BUILT | BRK AGD | BY APVD |
| | | | REVISION | | |

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

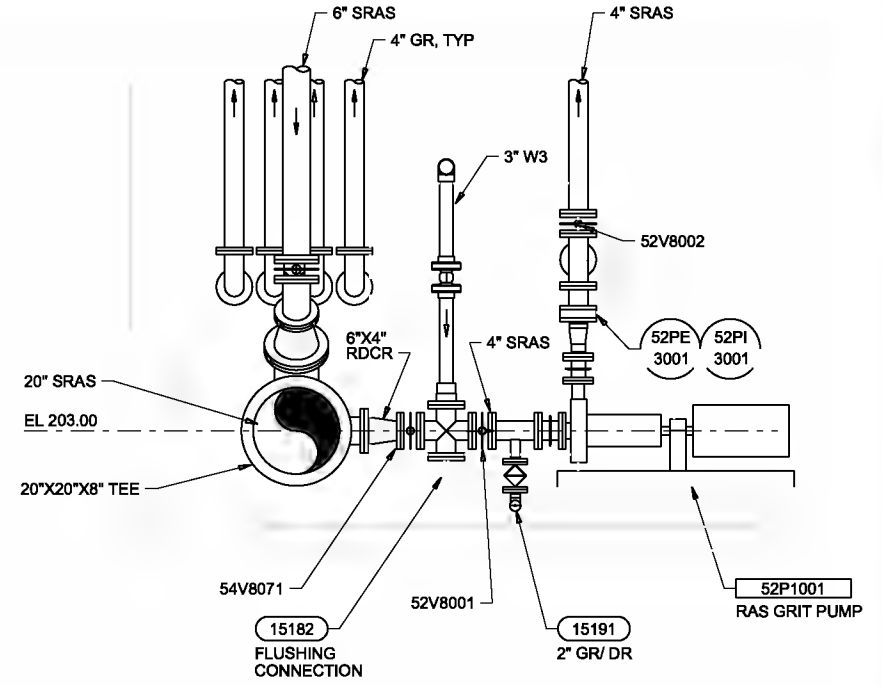
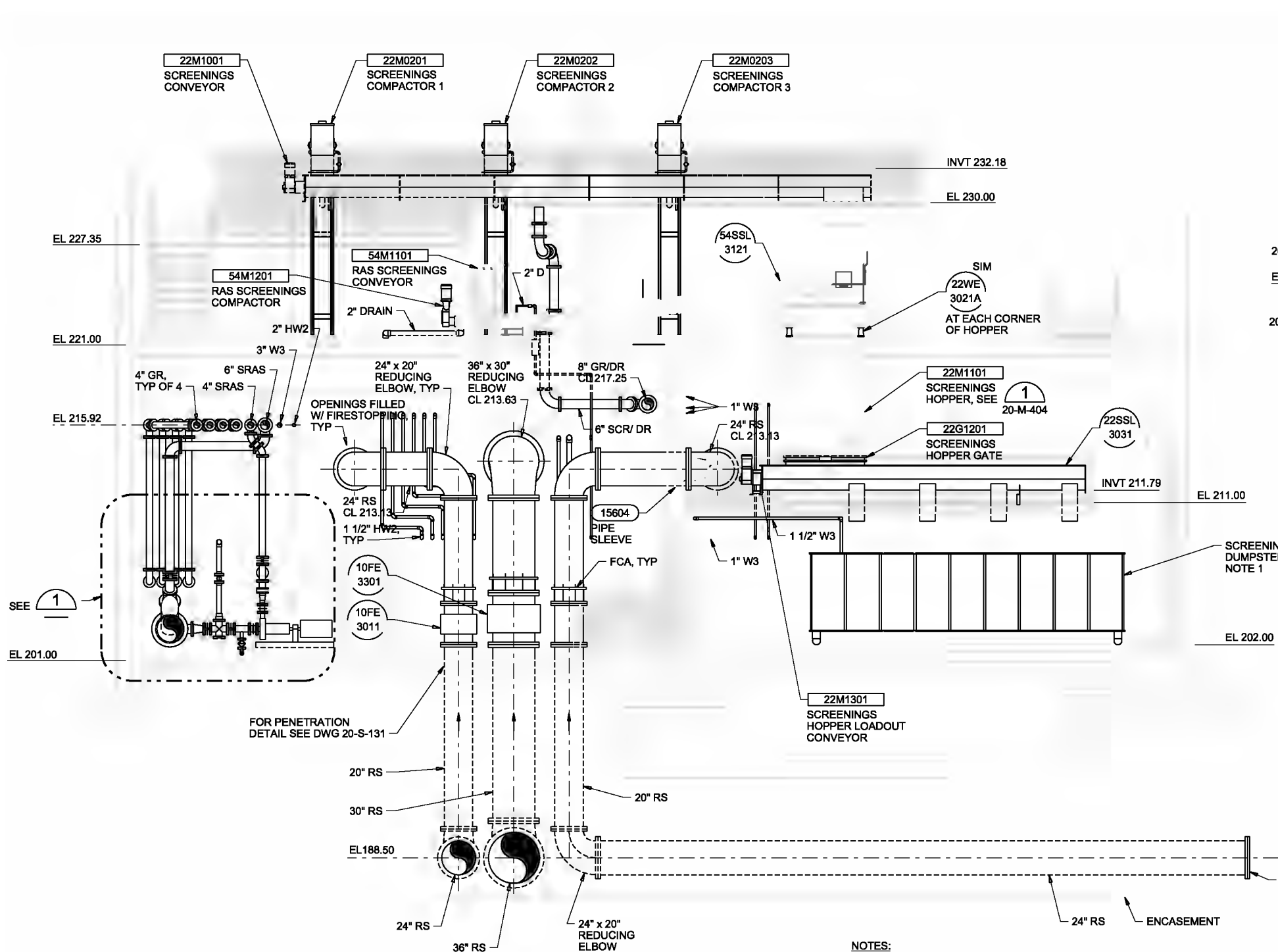


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

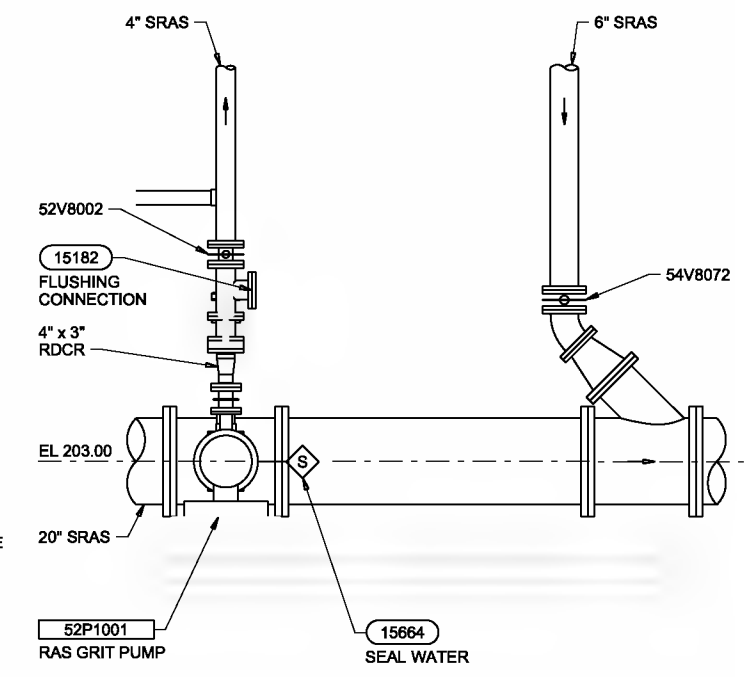
HEADWORKS
 MECHANICAL SECTION

| | |
|-------|-------------|
| SHEET | 265 |
| DWG | 20-M-202 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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DETAIL 1
1/2"=1'-0"



DETAIL 2
1/2"=1'-0"

NOTES:
1. DUMPSTER PROVIDED BY OWNER.

SECTION C
1/4"=1'-0"
20-M-131
20-M-141

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY ALAN G. CHANG STATE OF OREGON, P.E. NO. 74,677P.E.

| | | | | | |
|--------|------------|----------|----|-------|--|
| DESIGN | AG CHANG | | | | |
| DR | EA BROWN | | | | |
| CHK | AL JOHNSON | 01/20/10 | | | |
| APRVD | CW MARSH | | | | |
| NO. | DATE | REVISION | BY | APRVD | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

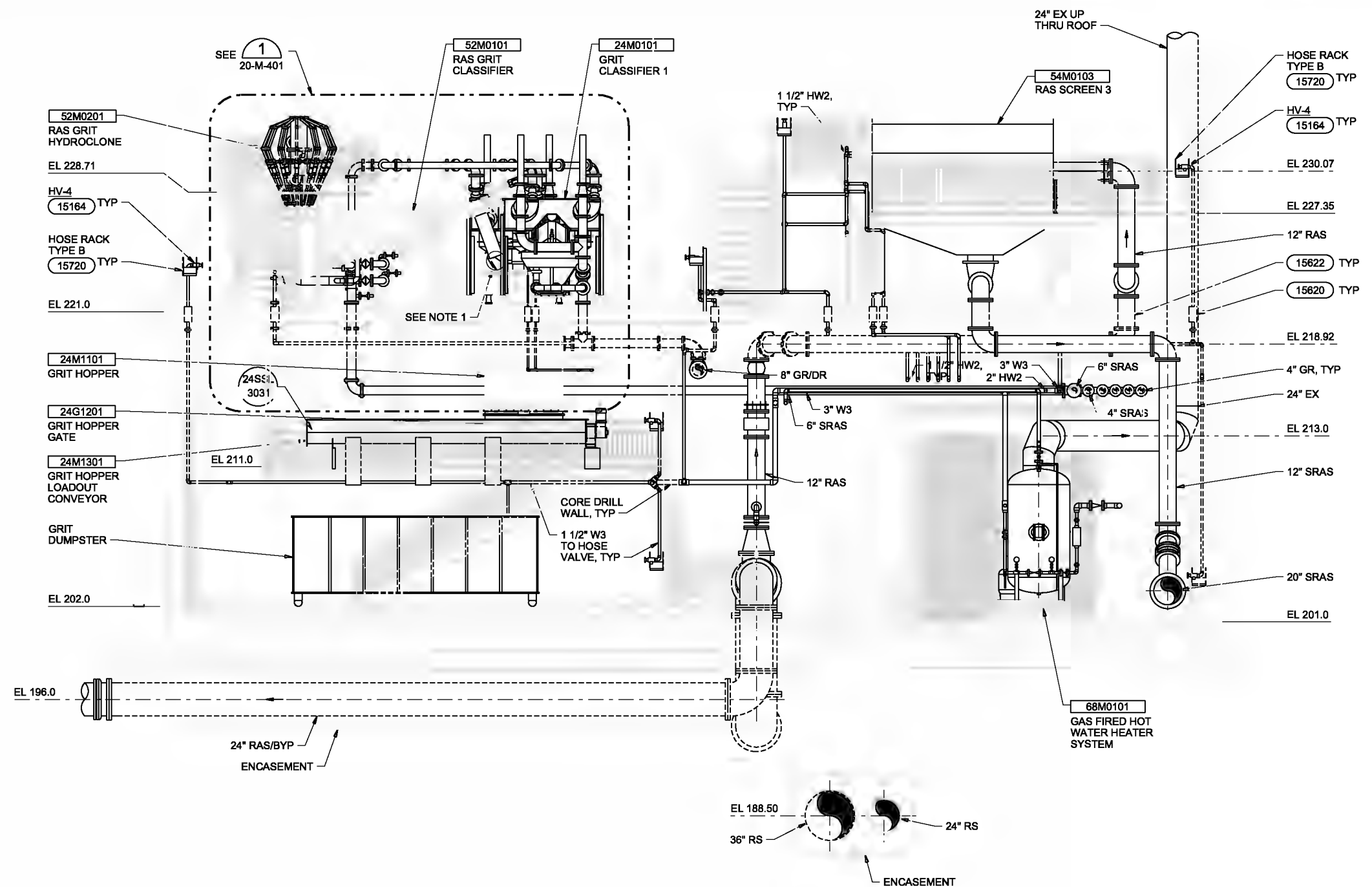
HEADWORKS
MECHANICAL SECTION AND DETAILS

| | |
|-------|-------------|
| SHEET | 266 |
| DWG | 20-M-203 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

FILENAME: 20m203d_326918.dwg PLOT DATE: 6/19/2010 PLOT TIME: 3:20:01 PM

REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.

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- NOTES:**
1. TERMINATE SST CHUTE 18" ABOVE GRIT HOPPER FLANGE AND PROVIDE FLANGED NEOPRENE CHUTE THAT CONNECTS AND SEALS AGAINST HOPPER FLANGE.

SECTION D
1/4"=1'-0"
20-M-131
20-M-141

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY ALAN G. CHANG STATE OF OREGON, P.E. NO. 74,671PE.

| | | | | | | |
|----------|------------|-----|------|----------|----|----------|
| DESIGN | AG CHANG | NO. | DATE | REVISION | BY | APPROVED |
| DR | EA BROWN | | | | | |
| CHK | AL JOHNSON | | | | | |
| APPROVED | CW MARRIS | | | | | |

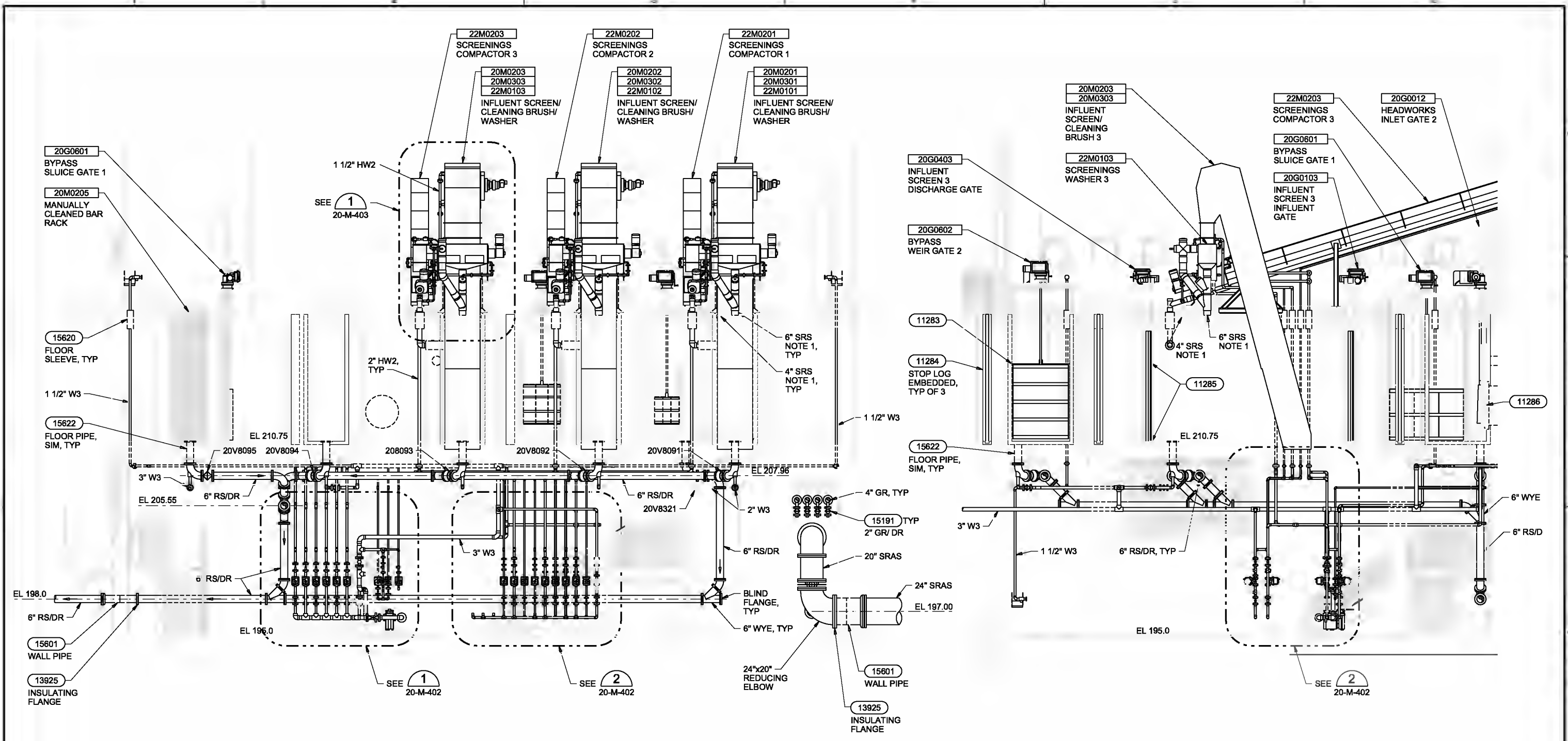
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
MECHANICAL
SECTION

| | |
|-------|-------------|
| SHEET | 267 |
| DWG | 20-M-204 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |



SECTION E
1/4"=1'-0"
20-M-132
20-M-142

SECTION F
1/4"=1'-0"
20-M-132
20-M-142

- NOTES:**
- CONTRACTOR SHALL COORDINATE SRS PENETRATIONS THROUGH CHANNEL COVER WITH COVER MANUFACTURER.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY ALAN G. CHANG STATE OF OREGON, P.E. NO. 74,677PE.

| | | | | | | |
|------|------------|----------|----------|-----|-----|------|
| DSGN | AG CHANG | NO. DATE | REVISION | BRK | AGC | APVD |
| DR | EL BROWN | | | | | |
| CHK | AL JOHNSON | | | | | |
| APVD | CW MARRIS | | | | | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

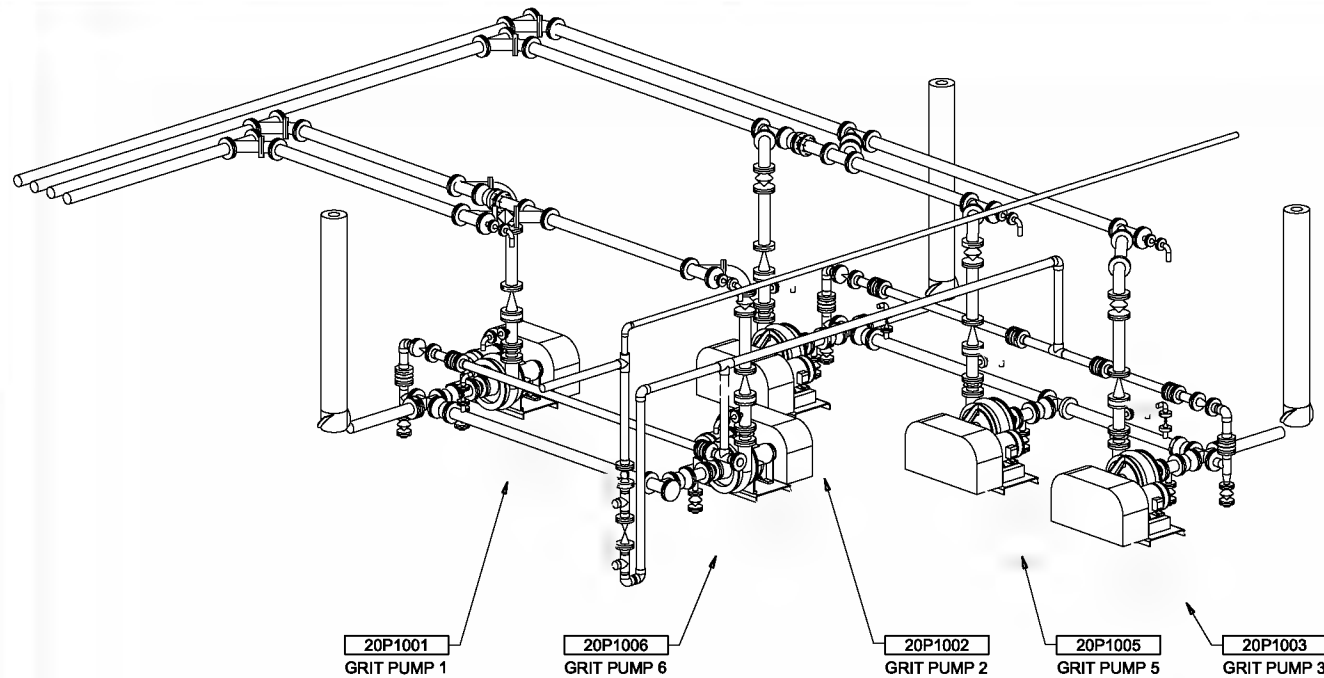


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

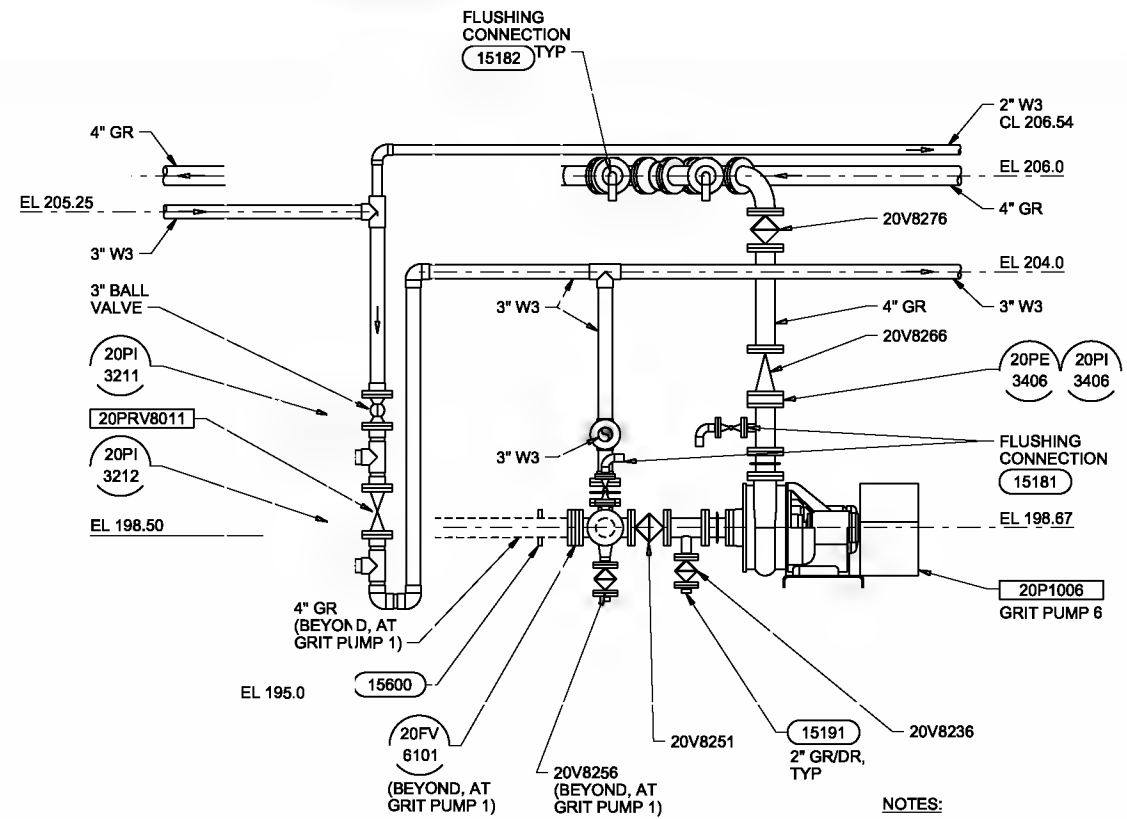
HEADWORKS
MECHANICAL
SECTIONS

| | |
|-------|-------------|
| SHEET | 268 |
| DWG | 20-M-205 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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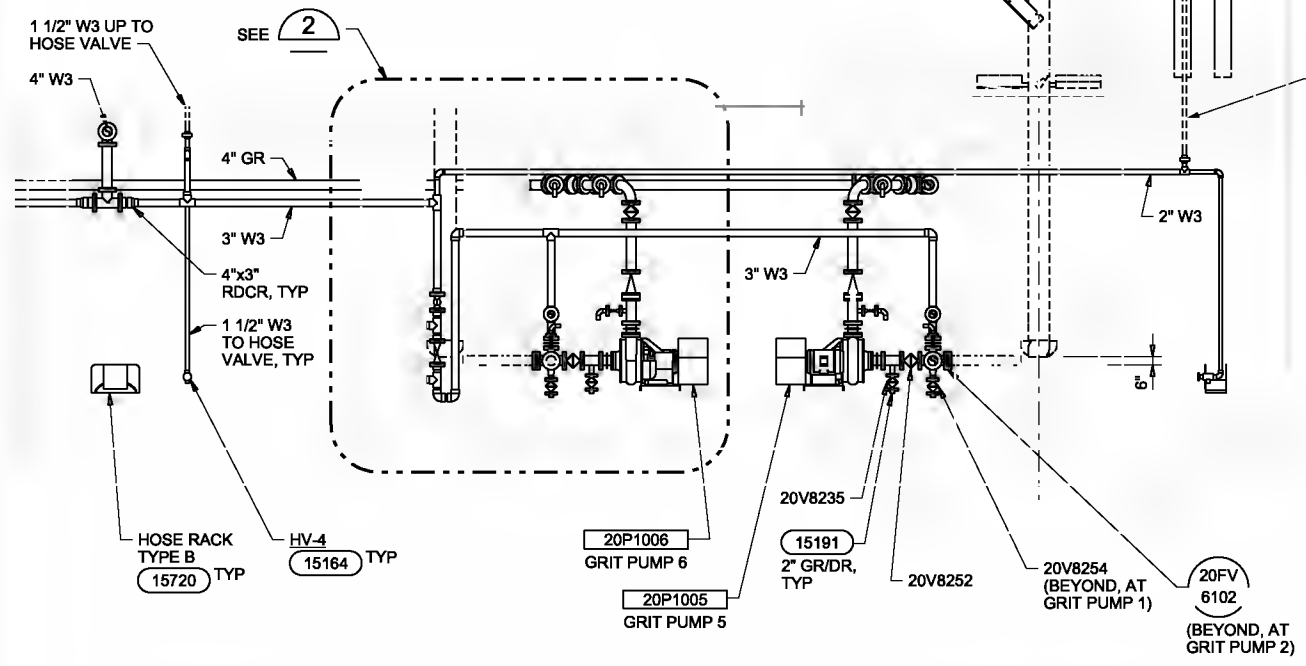
GRIT PUMP ISOMETRIC DETAIL 1
NTS



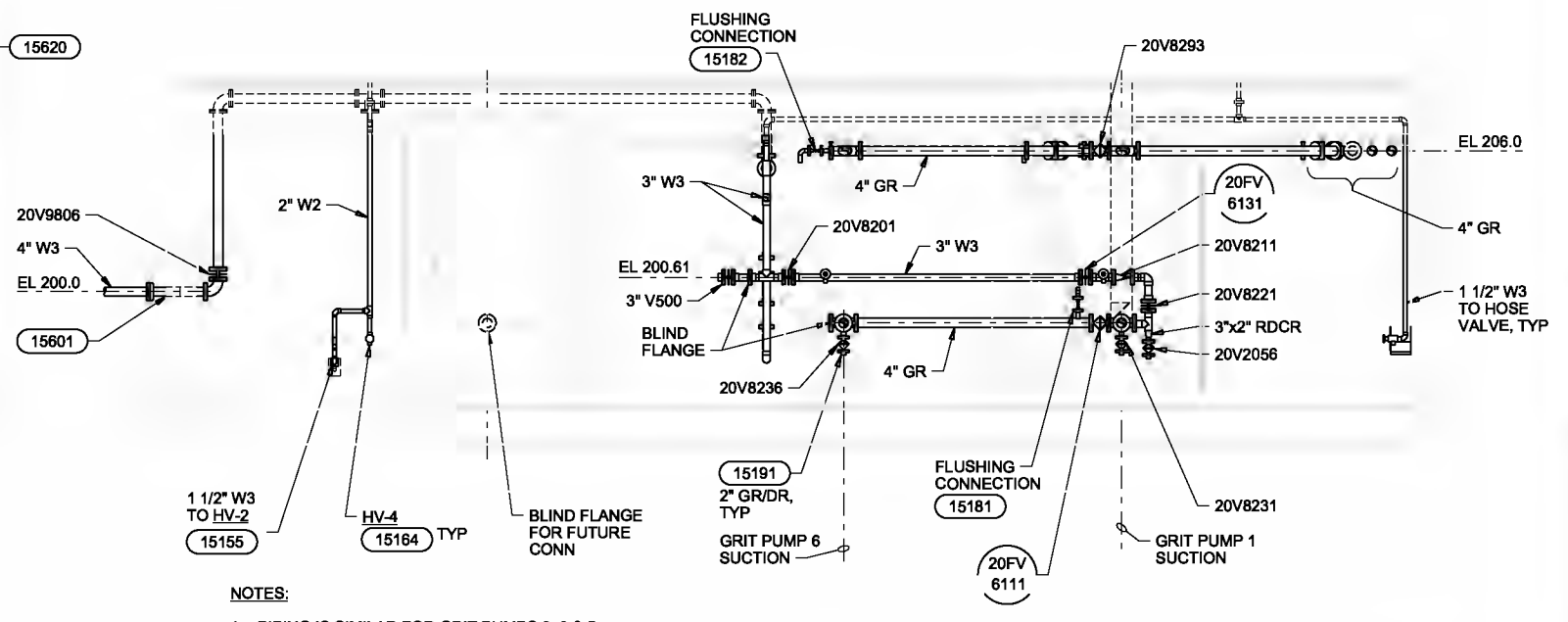
DETAIL 2
1/2"=1'-0"

NOTES:
1. INLET BAFFLE PROVIDED BY VORTEX GRIT SEPARATOR MANUFACTURER. COORDINATE INSTALLATION LOCATION WITH MANUFACTURER.

NOTES:
1. SUCTION AND DISCHARGE PIPING IS SIMILAR FOR ALL GRIT PUMPS. SEE DWGS 20-M-133, 08-I-06 AND DETAIL FOR ADDITIONAL LAYOUT AND VALVE TAG INFORMATION.



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



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

NOTES:
1. PIPING IS SIMILAR FOR GRIT PUMPS 2, 3 & 5. SEE DWGS 20-M-133, 08-I-06 AND DETAIL FOR ADDITIONAL CONFIGURATION INFORMATION.

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| | | | |
|--------|------------|----------|----------|
| DESIGN | AG CHANG | DATE | 01/20/06 |
| DR | EA BRUWIL | NO. | |
| CHK | AL JOHNSON | DATE | |
| APPR | CW MARSH | REVISION | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



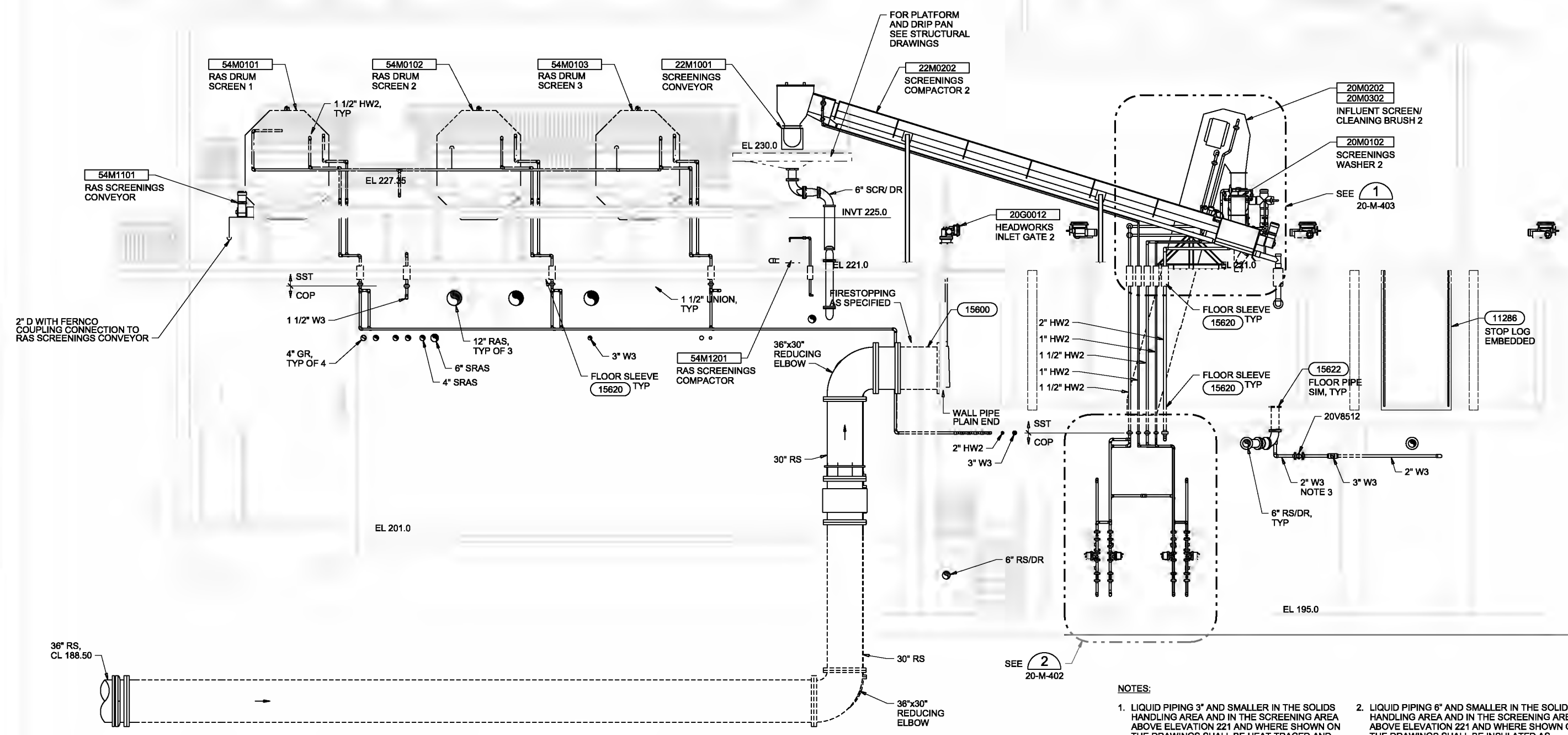
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
MECHANICAL
SECTIONS AND DETAIL

| | |
|-------|-------------|
| SHEET | 269 |
| DWG | 20-M-206 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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SECTION J
1/4"=1'-0"
20-M-131, 20-M-132
20-M-141, 20-M-142

- NOTES:**
- LIQUID PIPING 3" AND SMALLER IN THE SOLIDS HANDLING AREA AND IN THE SCREENING AREA ABOVE ELEVATION 221 AND WHERE SHOWN ON THE DRAWINGS SHALL BE HEAT TRACED AND INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS, AND IN SECTION 16055, PIPE HEAT TRACING.
 - LIQUID PIPING 6" AND SMALLER IN THE SOLIDS HANDLING AREA AND IN THE SCREENING AREA ABOVE ELEVATION 221 AND WHERE SHOWN ON THE DRAWINGS SHALL BE HEAT TRACED AND INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS.
 - INSTALL 2" W3 FLUSHING PIPING IN FITTING TAPPING BOSS LOCATION "G" OR "M".

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY ALAN G. CHANG STATE OF OREGON, P.E. NO. 74,677P.E.

| | | | | | | |
|------|------------|-----|------|----------|----|------|
| DSGN | AG CHANG | NO. | DATE | REVISION | BY | APVD |
| DR | EL BROWN | | | | | |
| CHK | AS JOHNSON | | | | | |
| APVD | CW MASSIE | | | | | |

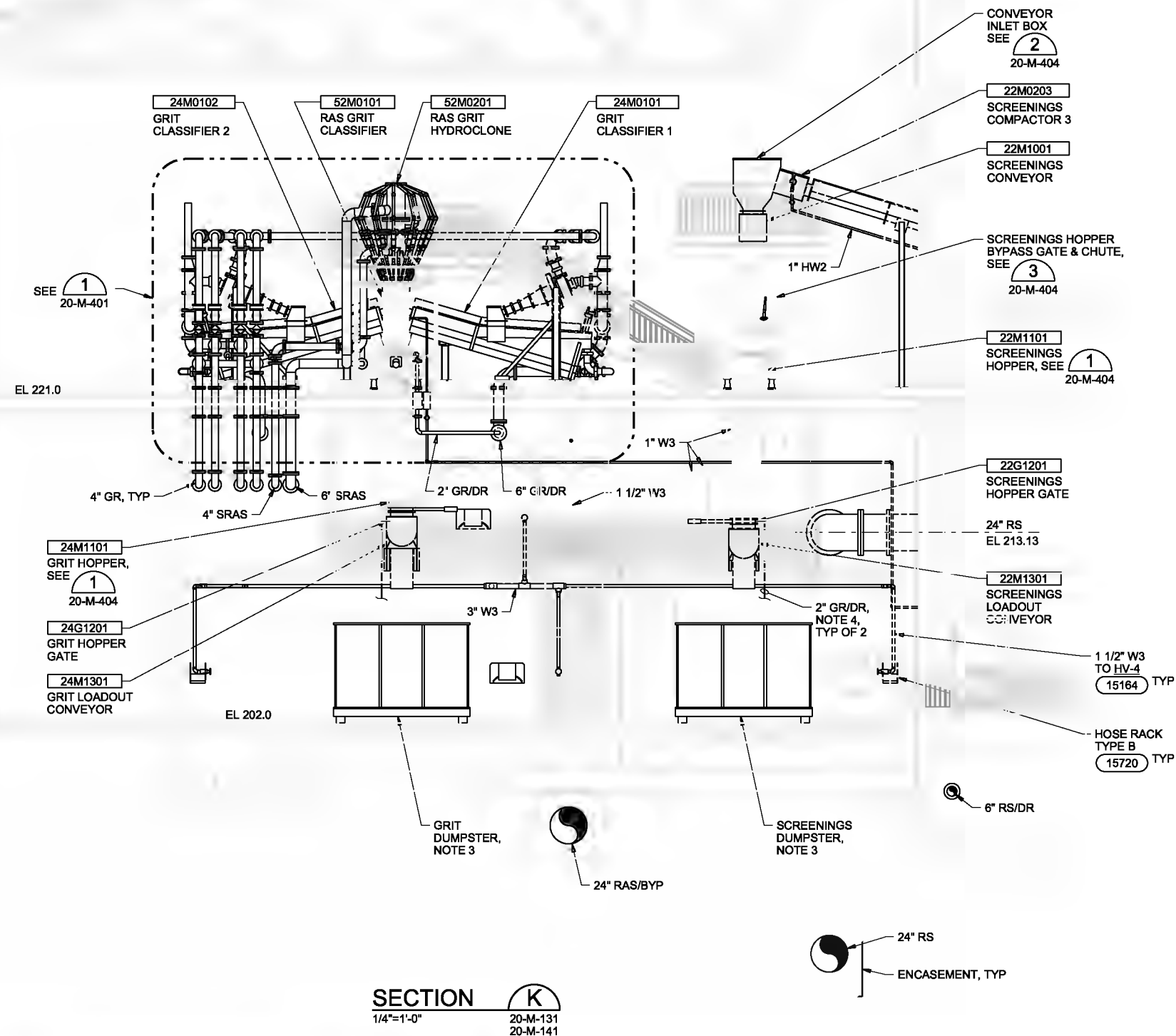
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
MECHANICAL SECTION

| | |
|-------|-------------|
| SHEET | 270 |
| DWG | 20-M-207 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |



NOTES:

- LIQUID PIPING 3" AND SMALLER IN THE SOLIDS HANDLING AREA AND IN THE SCREENING AREA ABOVE ELEVATION 221 AND WHERE SHOWN ON THE DRAWINGS SHALL BE HEAT TRACED AND INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS, AND IN SECTION 16055, PIPE HEAT TRACING.
- LIQUID PIPING 6" AND SMALLER IN THE SOLIDS HANDLING AREA AND IN THE SCREENING AREA ABOVE ELEVATION 221 AND WHERE SHOWN ON THE DRAWINGS SHALL BE INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS.
- DUMPSTERS PROVIDED BY OWNER.
- FIELD ROUTE 2" GR/DR FROM HOPPER GATE TO FLOOR TRENCH DRAIN.

SECTION K
1/4"=1'-0"
20-M-131
20-M-141

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY ALAN G. CHANG STATE OF OREGON, P.E. NO. 74,671PE.

| | | | | | | |
|------|------------|-----|------|----------|----|------|
| DSGN | AG CHANG | NO. | DATE | REVISION | BY | APVD |
| DR | ER BROWN | | | | | |
| CHK | RL JOHNSON | | | | | |
| APVD | CW MARRIS | | | | | |

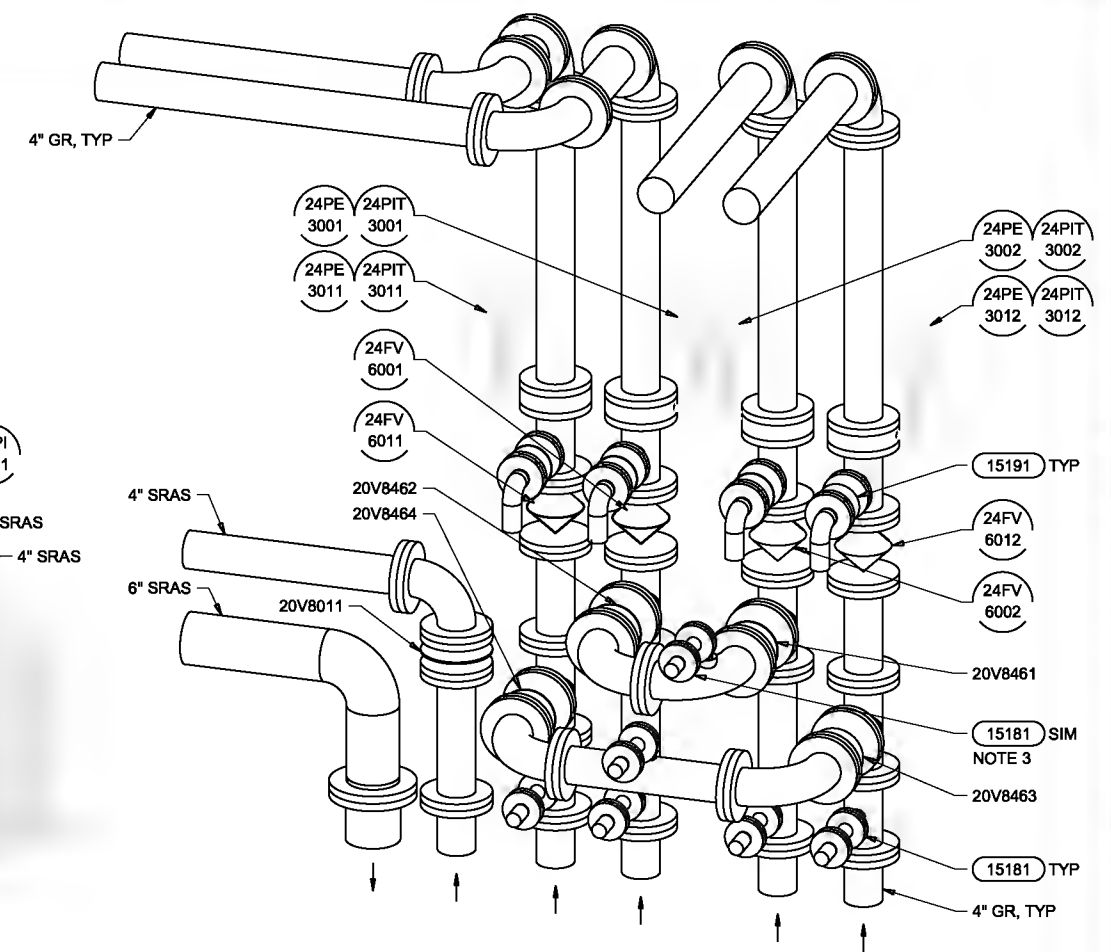
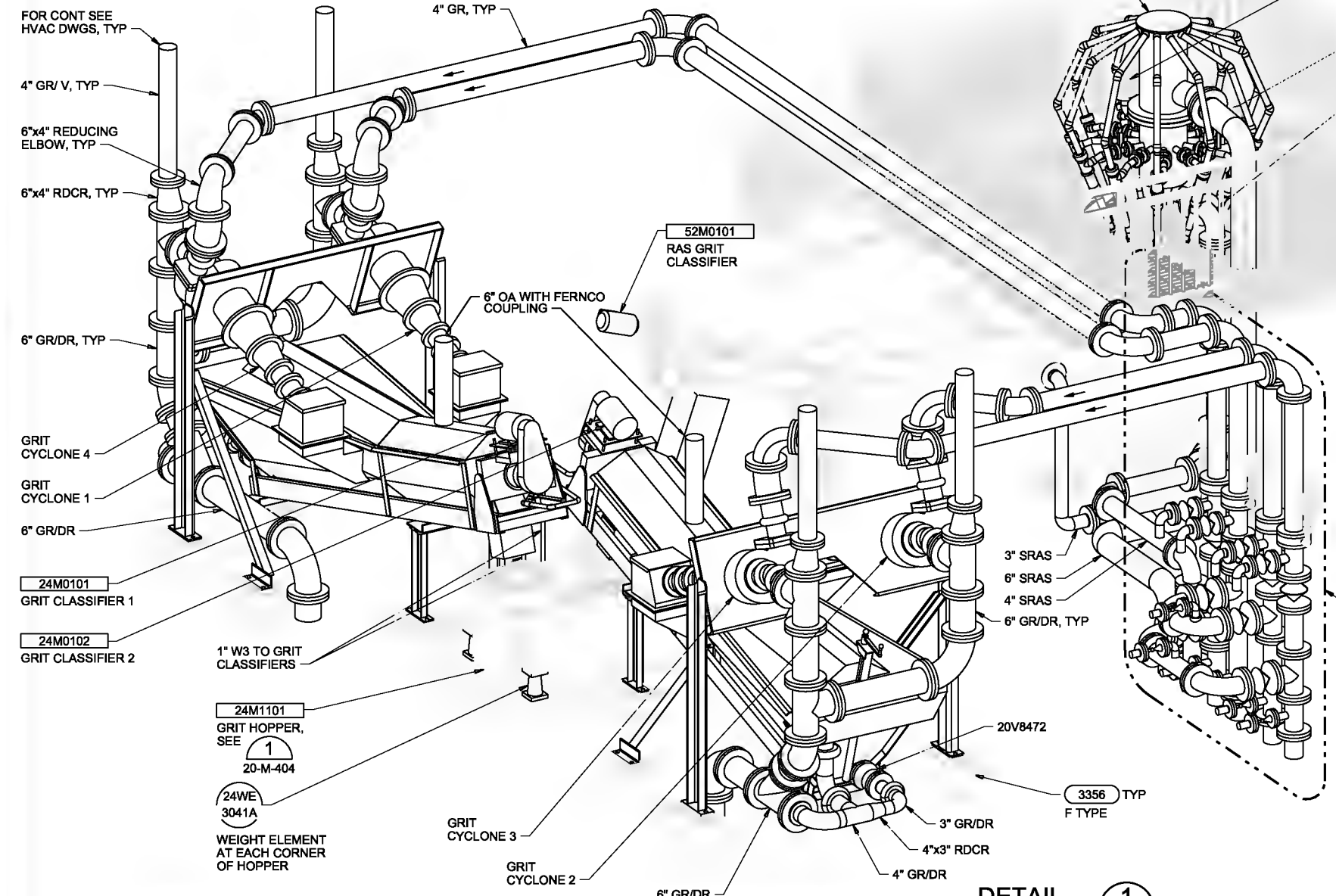
VERIFY SCALE
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0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
MECHANICAL
SECTION

| | |
|-------|-------------|
| SHEET | 271 |
| DWG | 20-M-208 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |



DETAIL 2
NTS

DETAIL 1
NTS
20-M-141
20-M-204
20-M-208

- NOTES:**
- CONTRACTOR TO UTILIZE ISOMETRIC AS A SUGGESTED LAYOUT FOR PIPING. SEE PROCESS AND INSTRUMENTATION DIAGRAMS FOR INTERCONNECTION POINTS RELATED TO OTHER SYSTEMS NOT SHOWN.
 - CONTRACTOR TO SUPPLY AND INSTALL PIPE SUPPORTS IN ACCORDANCE WITH SPECIFICATION NO. 15060.
 - INSTALL 1 1/2" SST NIPPLE IN FITTING TAPPING BOSS LOCATION "G" OR "M".

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY ALAN G. CHANG STATE OF OREGON, P.E. NO. 74,677PE.

| | | | | | |
|------|------------|----------|------|----------|----|
| DSGN | AG CHANG | | | | |
| DR | EL BROWN | | | | |
| CHK | RL JOHNSON | 01/20/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
MECHANICAL
DETAILS

| | |
|-------|-------------|
| SHEET | 272 |
| DWG | 20-M-401 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

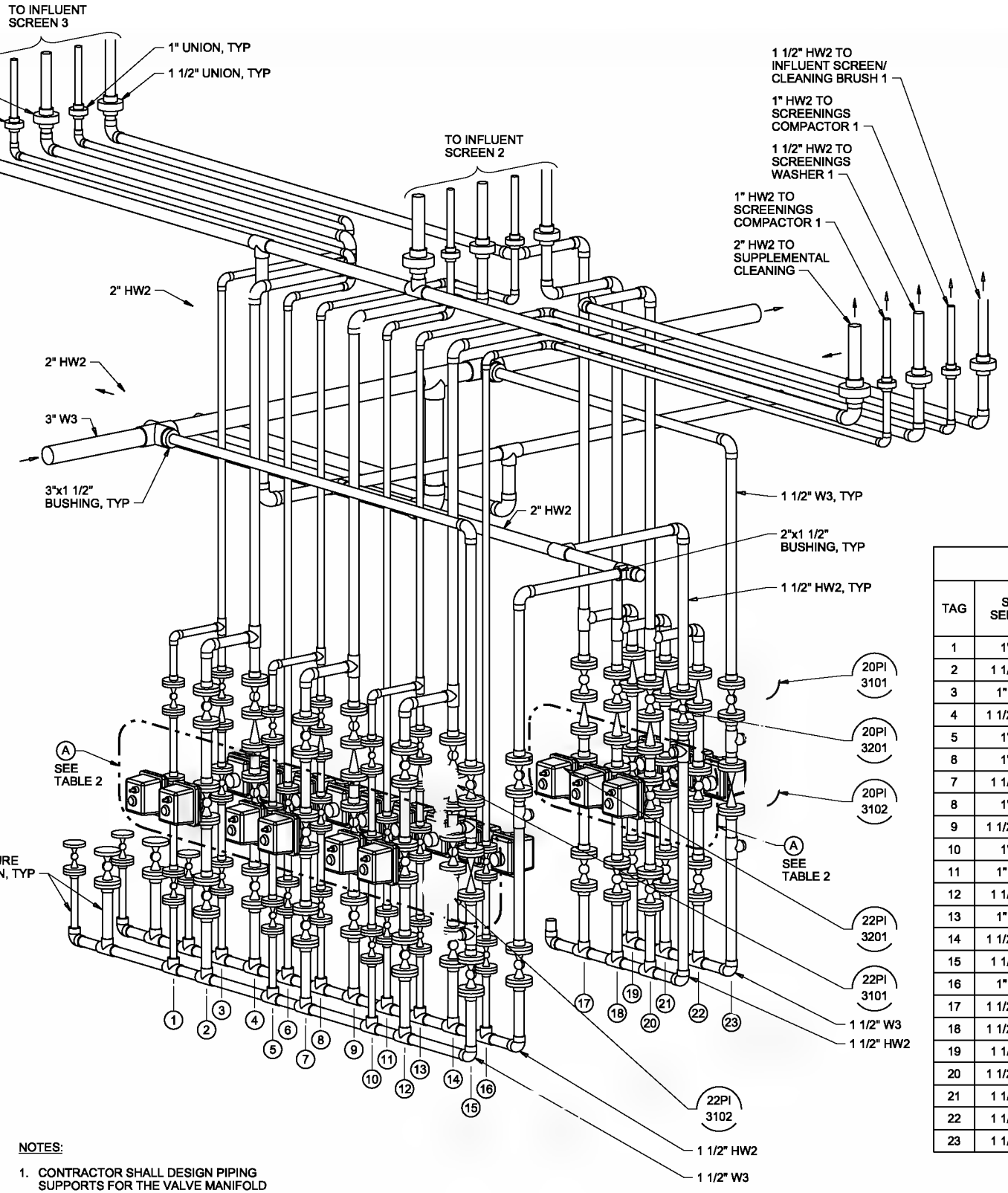
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| TAG | SIZE/ SERVICE | (A) VALVE |
|-----|------------------|--------------|
| 1 | 1 1/2" HW2 | 54FV6031 |
| | 1 1/2" W3 | 54FV6021 |
| 2 | 1 1/2" HW2 | 54FV6041 |
| | 1 1/2" W3 | 54FV6011 |
| 3 | 1 1/2" HW2 | 54FV6032 |
| | 1 1/2" W3 | 54FV6022 |
| 4 | 1 1/2" HW2 | 54FV6042 |
| | 1 1/2" W3 | 54FV6012 |
| 5 | 1 1/2" HW2 | 54FV6033 |
| | 1 1/2" W3 | 54FV6023 |
| 6 | 1 1/2" HW2 | 54FV6043 |
| | 1 1/2" W3 | 54FV6013 |

(A) SEE TABLE 1

NOTES:
1. CONTRACTOR SHALL DESIGN PIPING SUPPORTS FOR THE VALVE MANIFOLD IN ACCORDANCE WITH THE SPECIFICATIONS.

DETAIL 1
NTS
20-M-132
20-M-205



NOTES:
1. CONTRACTOR SHALL DESIGN PIPING SUPPORTS FOR THE VALVE MANIFOLD IN ACCORDANCE WITH THE SPECIFICATIONS.

DETAIL 2
NTS
20-M-132
20-M-205
20-M-207

| TAG | SIZE/ SERVICE | (A) VALVE |
|-----|------------------|--------------|
| 1 | 1" W3 | 22FV6013 |
| 2 | 1 1/2" W3 | 22FV6003 |
| 3 | 1" HW2 | 22FV6023 |
| 4 | 1 1/2" HW2 | 22FV6033 |
| 5 | 1" W3 | 22FV6012 |
| 8 | 1" W2 | 22FV8043 |
| 7 | 1 1/2" W3 | 22FV6002 |
| 8 | 1" W2 | 22FV6022 |
| 9 | 1 1/2" HW2 | 22FV6032 |
| 10 | 1" W3 | 22FV6011 |
| 11 | 1" HW2 | 22FV6042 |
| 12 | 1 1/2" W3 | 22FV6001 |
| 13 | 1" HW2 | 22FV6021 |
| 14 | 1 1/2" HW2 | 22FV6031 |
| 15 | 1 1/2" W3 | 22PRV8001 |
| 16 | 1" HW2 | 22FV6041 |
| 17 | 1 1/2" HW2 | 20FV6011 |
| 18 | 1 1/2" HW2 | 20FV6012 |
| 19 | 1 1/2" W3 | 20FV6001 |
| 20 | 1 1/2" HW2 | 20FV6013 |
| 21 | 1 1/2" W3 | 20FV6002 |
| 22 | 1 1/2" W3 | 20FV6003 |
| 23 | 1 1/2" W3 | 20PRV8001 |

(A) SEE TABLE 2

(A) SEE TABLE 2

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY ALAN G. CHANG STATE OF OREGON, P.E. NO. 74,677PE.

| | | | |
|-------------|-------------|------|----------|
| DESIGNED BY | AG CHANG | DATE | 01/20/06 |
| CHECKED BY | EA BRUWIL | DATE | |
| APPROVED BY | AL G. CHANG | DATE | |
| SCALE | AS-BUILT | BY | APV |

VERIFIED SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

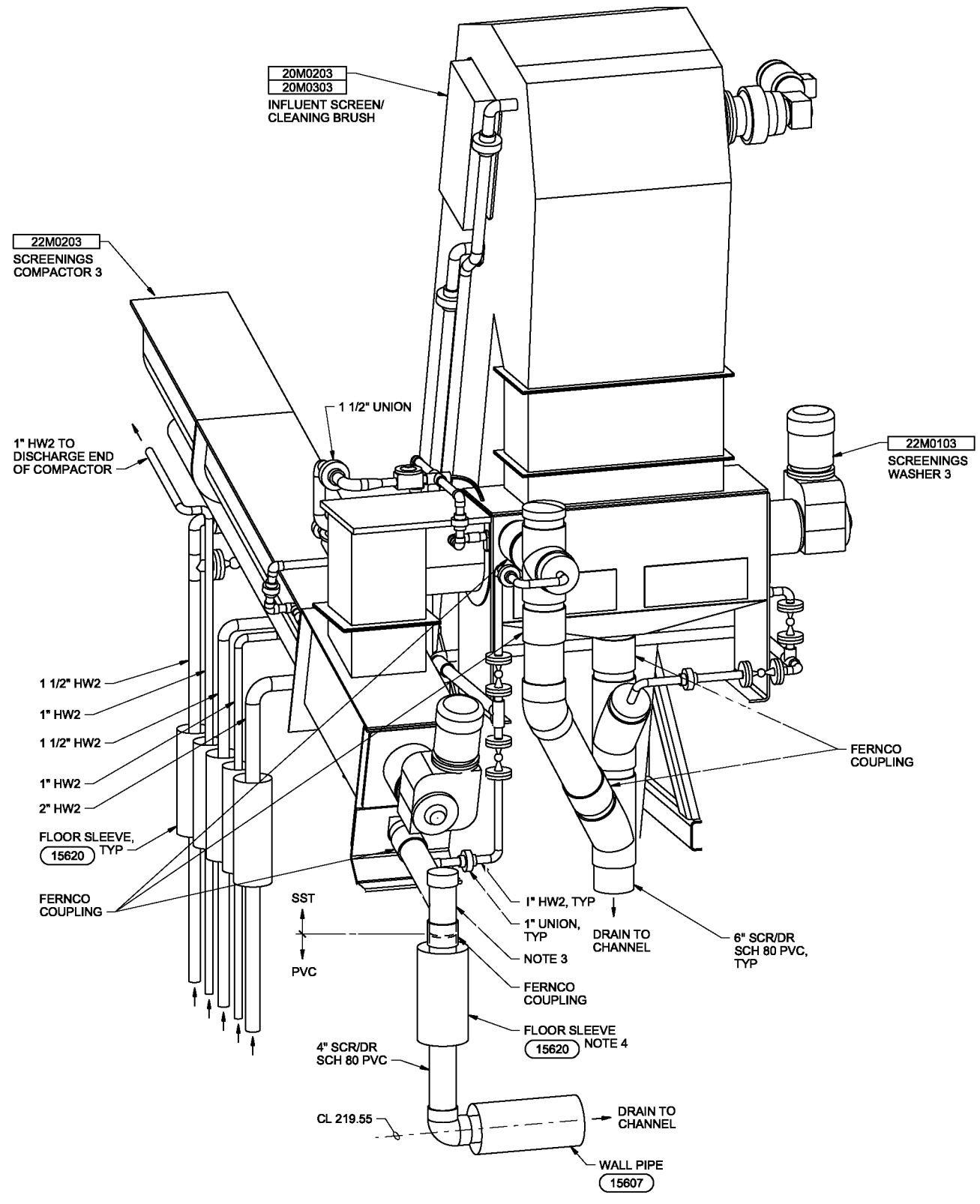


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
MECHANICAL
DETAILS

| | |
|-------|-------------|
| SHEET | 273 |
| DWG | 20-M-402 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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DETAIL 1
 NTS 20-M-142
 20-M-205
 20-M-207

- NOTES:**
1. CONTRACTOR TO UTILIZE ISOMETRIC AS A SUGGESTED LAYOUT FOR PIPING. SEE PROCESS AND INSTRUMENTATION DIAGRAMS FOR INTERCONNECTION POINTS RELATED TO OTHER SYSTEMS NOT SHOWN.
 2. CONTRACTOR TO SUPPLY AND INSTALL PIPE SUPPORTS IN ACCORDANCE WITH SPECIFICATION NO. 15060.
 3. CONTRACTOR SHALL FIELD DETERMINE FITTING DIMENSIONS, FABRICATE AND INSTALL 4" SST WYE/ CLEANOUT FITTING TO COORDINATE WITH SCREENINGS COMPACTOR DRAIN OUTLET AND FLOOR PENETRATION. PROVIDE 1" WELDED COUPLING FOR 1" HW2 CONNECTION. CAP CLEANOUT END WITH FERNCO QUIK CAP, OR EQUAL.
 4. COORDINATE SLEEVE FLOOR PROJECTION HEIGHT TO ACCESS TO FERNCO COUPLING.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED (month & year) BY (name as it appears on the stamp), STATE OF OREGON, P.E. NO. (PE number).

| | | | | | | | | | |
|------|------------|----------|------|----------|----|------|--|--|--|
| DSGN | AG CHANG | | | | | | | | |
| DR | ER BROWN | | | | | | | | |
| CHK | BR JOHNSON | 01/20/10 | | | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

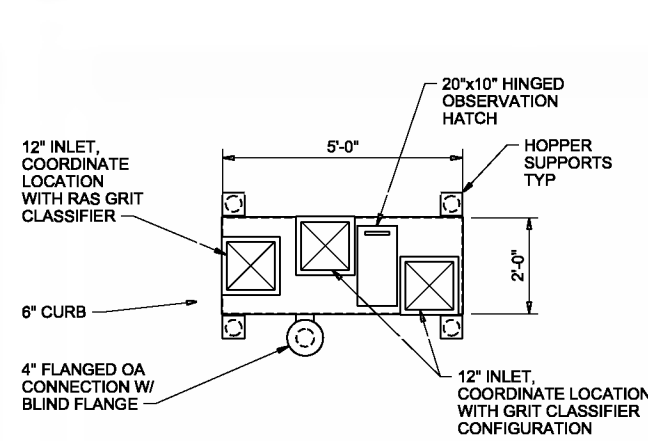


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

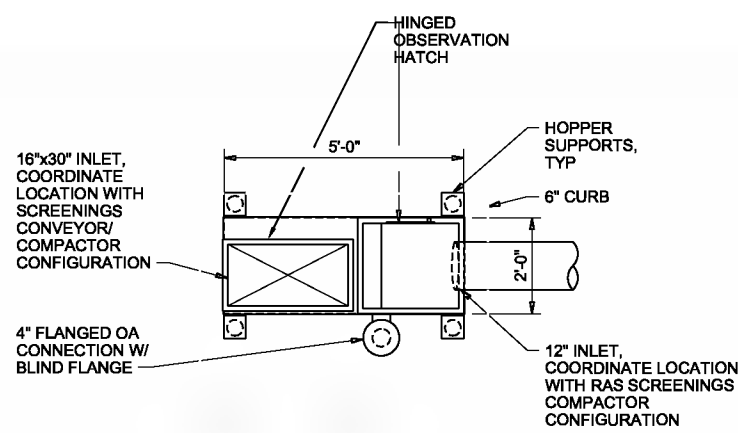
HEADWORKS
 MECHANICAL
 DETAILS

| | |
|-------|-------------|
| SHEET | 274 |
| DWG | 20-M-403 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

REUSE OF DOCUMENTS: CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.

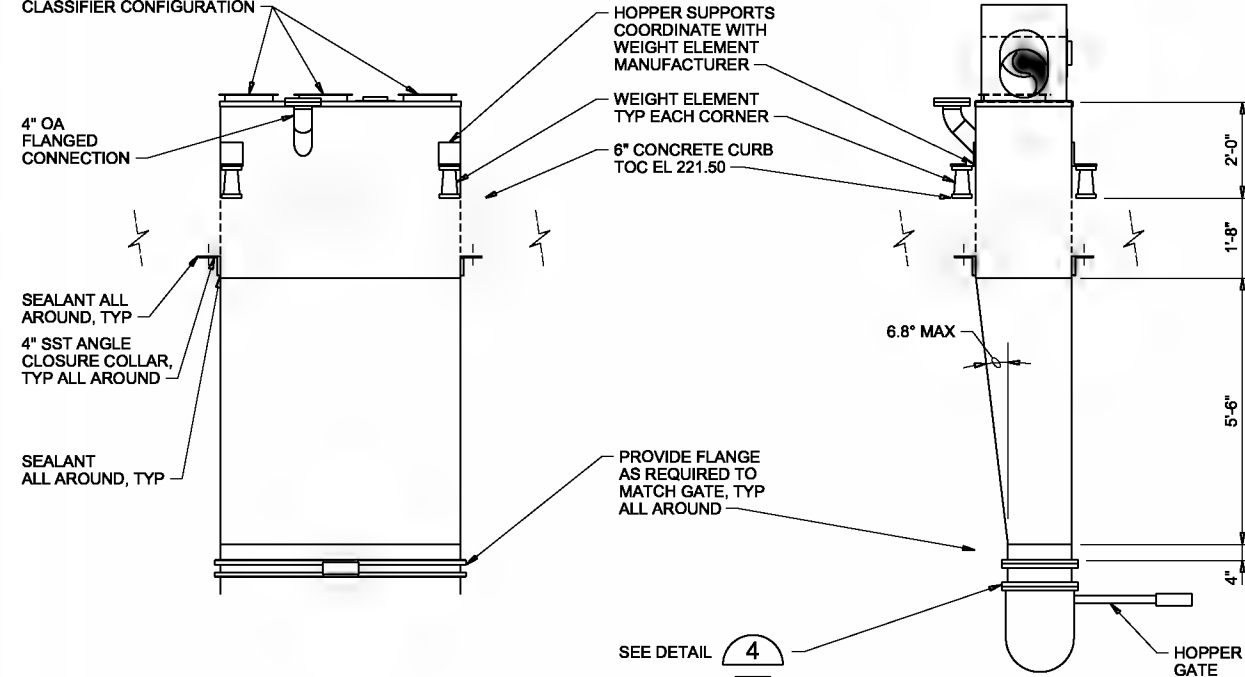


GRIT HOPPER PLAN



SCREENINGS HOPPER PLAN

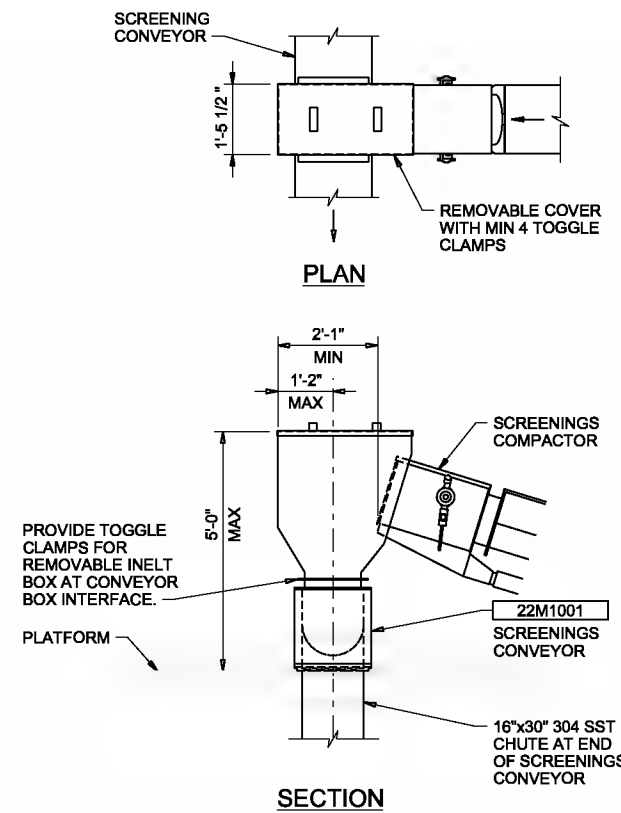
COORDINATE INLET LOCATION CONNECTION WITH SCREENING CONVEYOR/ COMPACTOR CONFIGURATION; GRIT CLASSIFIER CONFIGURATION



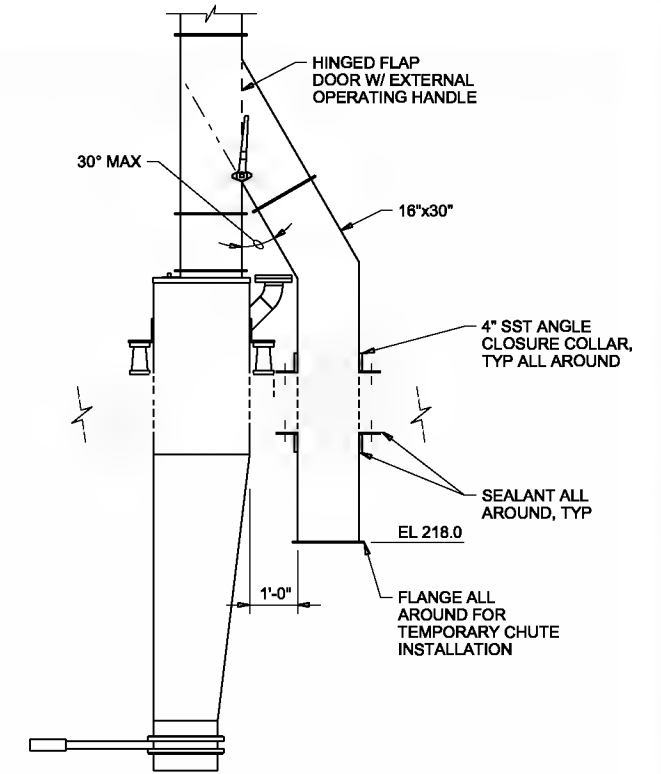
TYPICAL HOPPER ELEVATION

TYPICAL HOPPER SECTION

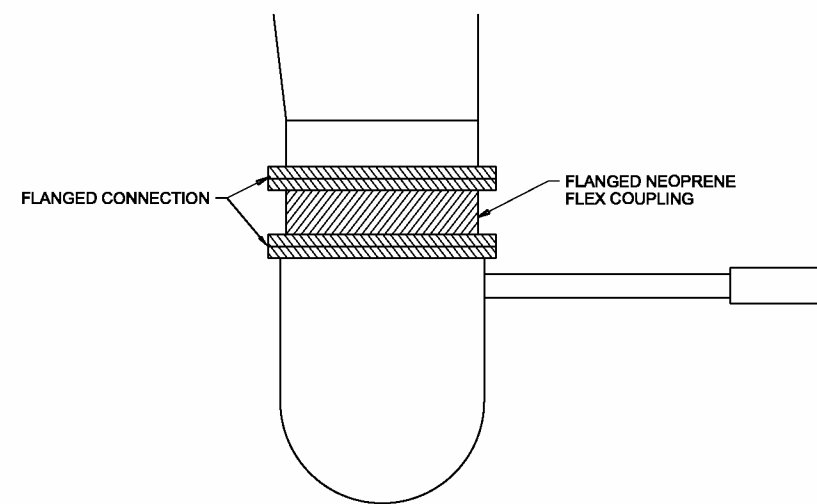
HOPPER DETAILS
1/2"=1'-0" **1**
20-M-203
20-M-208
20-M-401



TYPICAL CONVEYOR INLET BOX DETAILS
1/2"=1'-0" **2**
20-M-202
20-M-208



SCREENINGS HOPPER BYPASS DETAIL
1/2"=1'-0" **3**
20-M-208



DETAIL
NTS **4**

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED (DS/06) ALAN G. CHANG STATE OF OREGON, P.E. NO. 74,671PE.

| | | | |
|---------|------|----|-------|
| ASBUILT | DATE | BY | APP'D |
| | | | |

VERIFIED
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

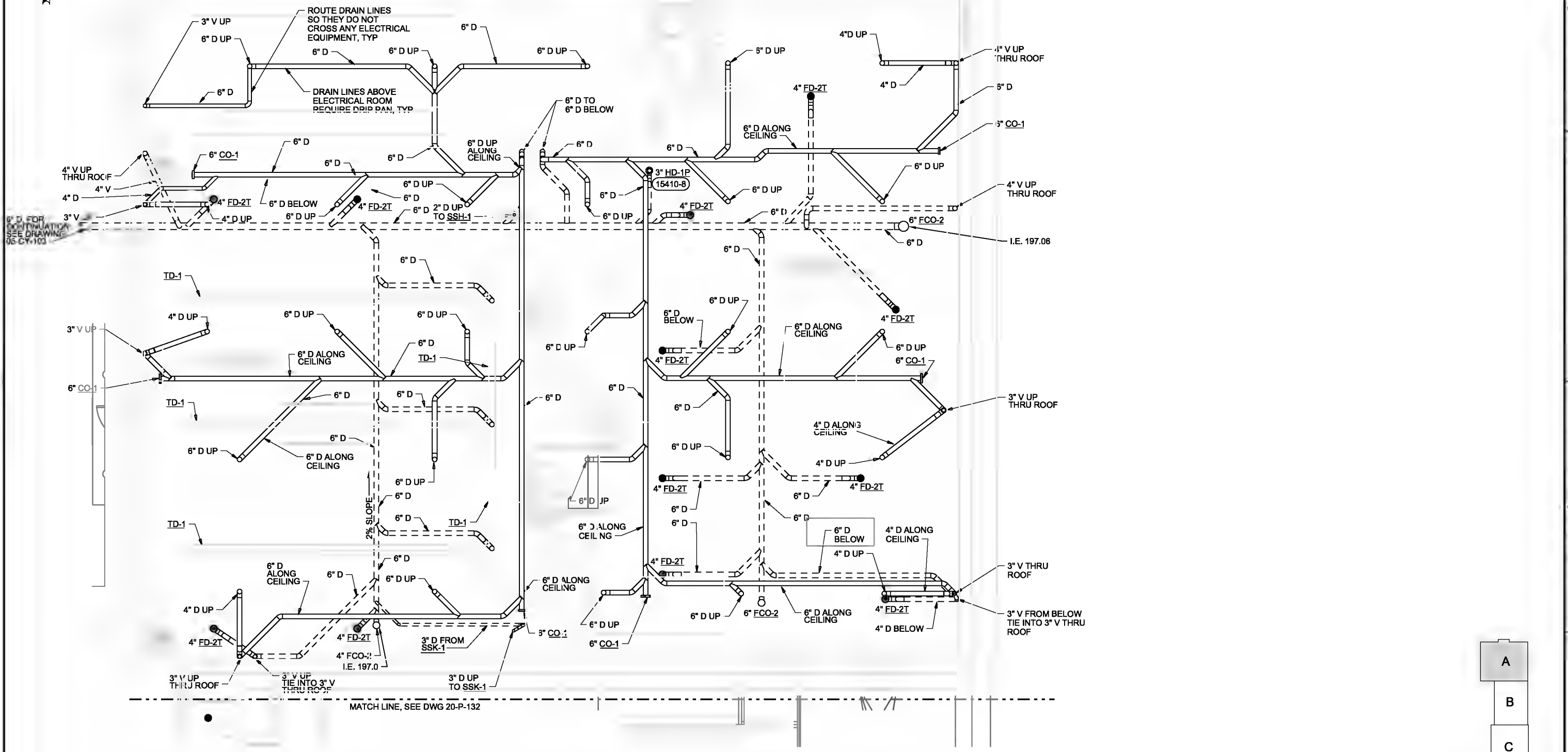
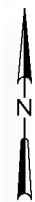


CITY OF ALBANY
SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

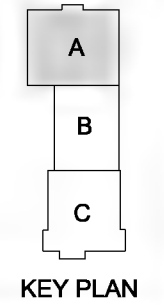
HEADWORKS
MECHANICAL
DETAILS

| | |
|-------|-------------|
| SHEET | 275 |
| DWG | 20-M-404 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

REUSE OF DOCUMENTS: CH2M HILL



LOWER LEVEL PLAN - A
1/4"=1'-0"



THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY TOM J. REJFR STATE OF OREGON, P.E. NO. 13,614.

| | | | | | | | | |
|--------|-----------|-----|------|----------|-----|-----|----|------|
| DESIGN | TD SMITH | NO. | DATE | REVISION | BRK | KEG | BY | APVD |
| DR | TD SMITH | | | | | | | |
| CHK | TJ REJFR | | | | | | | |
| APVD | CW MARRIS | | | | | | | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

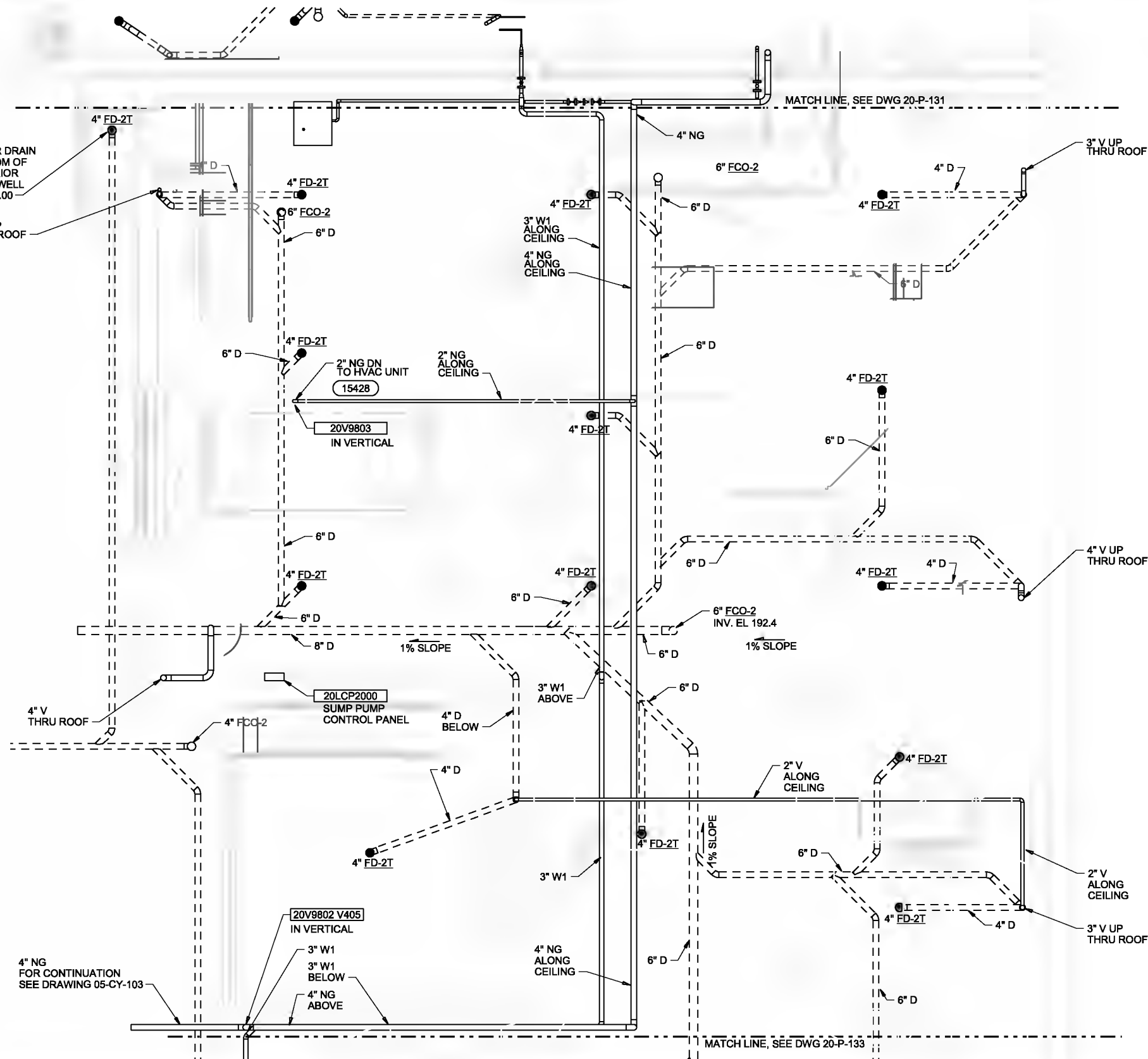
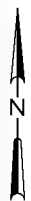


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
PLUMBING
LOWER LEVEL PLAN - A
(SOLIDS HANDLING)

| | |
|-------|-------------|
| SHEET | 276 |
| DWG | 20-P-131 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

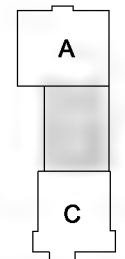
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MATCH LINE, SEE DWG 20-P-131

MATCH LINE, SEE DWG 20-P-133

LOWER LEVEL PLAN - B
1/4"=1'-0"



KEY PLAN

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY TOM J. REFF JR STATE OF OREGON, P.E. NO. 13,614.

| | | | | | | |
|---|------------|-----|------|----------|----|------|
| DESIGN | TD SMITH | NO. | DATE | REVISION | BY | APVD |
| DR | TD SMITH | | | | | |
| CHK | TJ REFF JR | | | | | |
| APVD | CW MARRIS | | | | | |
| | | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | BRK | KEG | | | |

| | |
|---|--|
| VERIFY SCALE | |
| BAR IS ONE INCH ON ORIGINAL DRAWING. | |
| IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | |

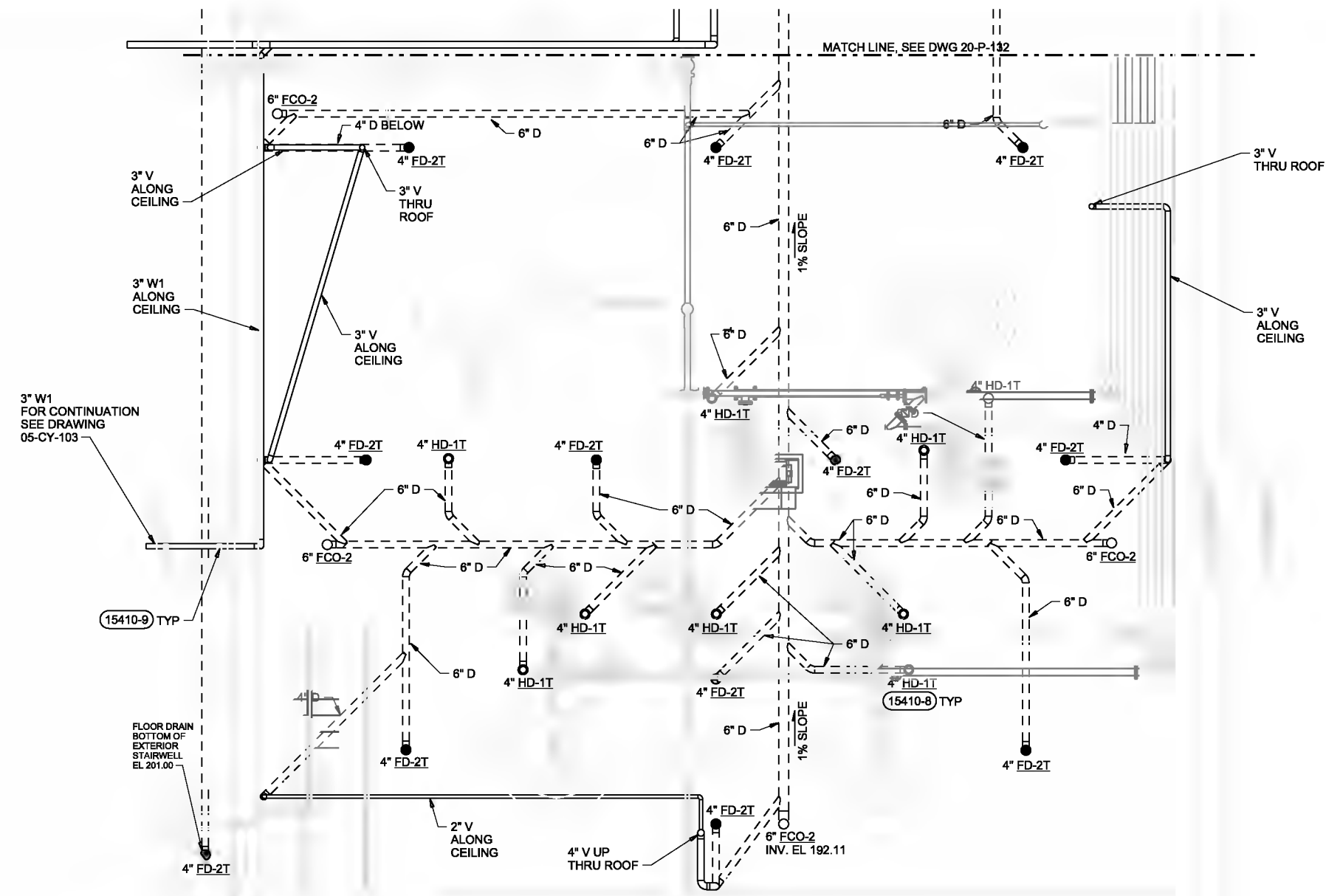
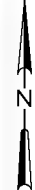


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

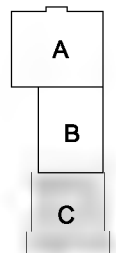
HEADWORKS
PLUMBING
LOWER LEVEL PLAN - B
(SCREENING)

| | |
|-------|-------------|
| SHEET | 277 |
| DWG | 20-P-132 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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LOWER LEVEL PLAN - C
1/4"=1'-0"



KEY PLAN

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY TOM J. REJFR STATE OF OREGON, P.E. NO.13,514.

| | | | | | |
|--------|-----------|----------|------|----------|----|
| DESIGN | TD SMITH | | | | |
| DR | TD SMITH | | | | |
| CHK | TJ REJFR | 01/20/06 | | | |
| APPROV | CW MARRIS | NO. | DATE | REVISION | BY |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

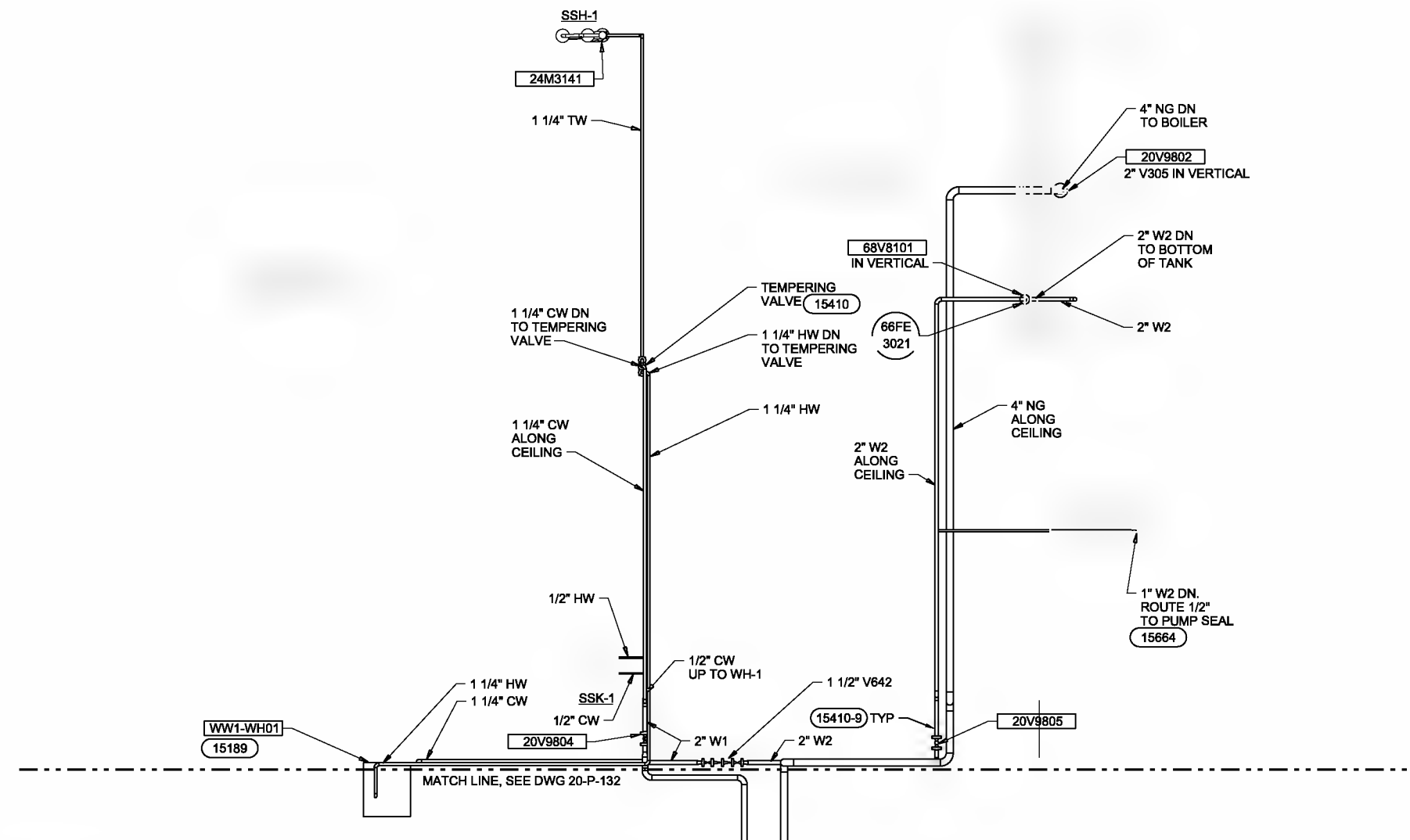


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

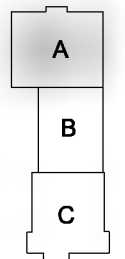
HEADWORKS
PLUMBING
LOWER LEVEL PLAN - C
(GRIT)

| | |
|-------|-------------|
| SHEET | 278 |
| DWG | 20-P-133 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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LOWER LEVEL PLAN - A
1/4"=1'-0"

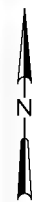


KEY PLAN

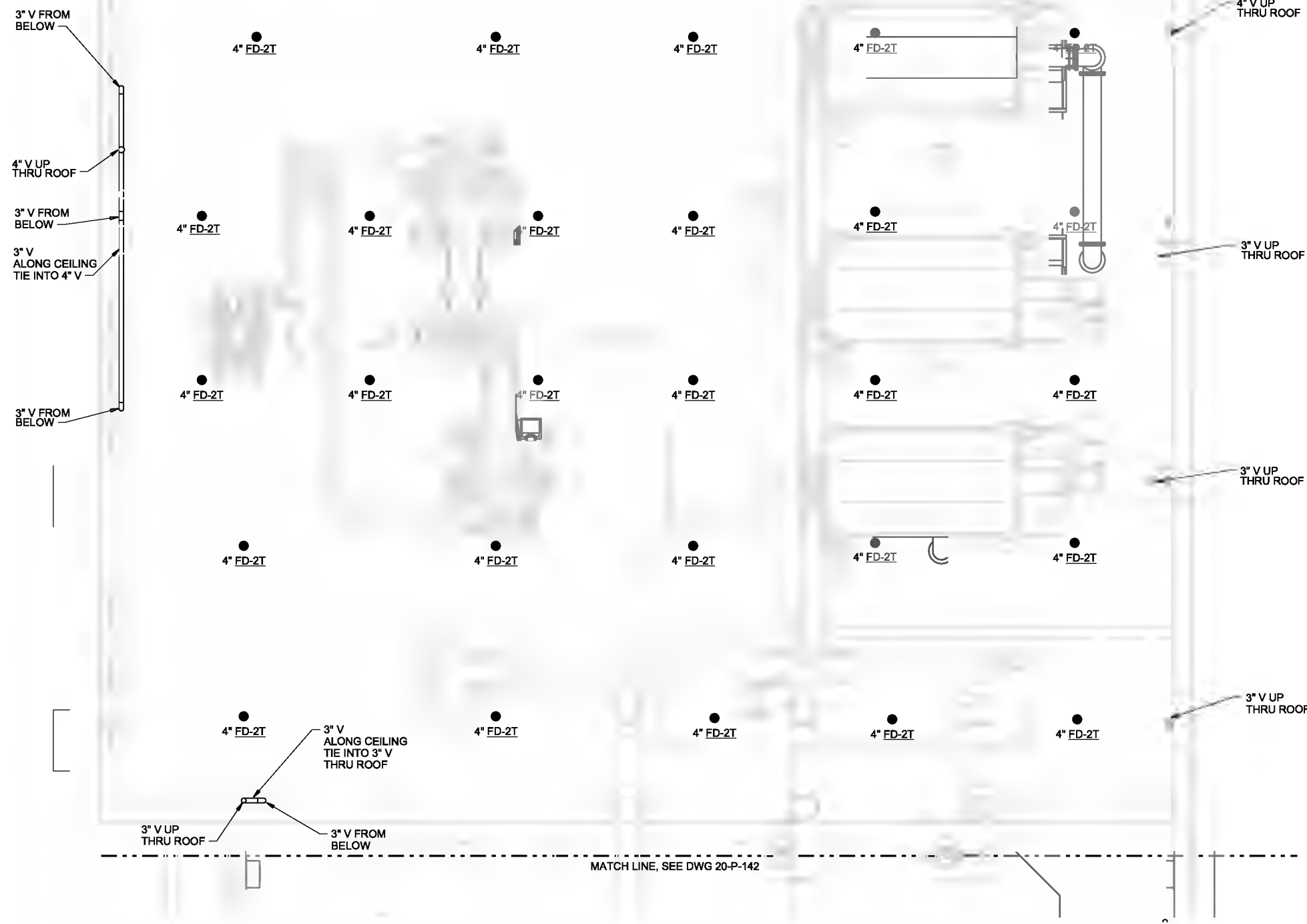
THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY TOM J. REJFIR STATE OF OREGON, P.E. NO. 13,614.

| | | | | | | | | | |
|--|--|---|--|-----|-----|--|--|---|-------------------|
| | | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | BRK | KEG | | CITY OF ALBANY SYSTEM IMPROVEMENTS WWTP-03-01 LINN COUNTY, OREGON | HEADWORKS PLUMBING LOWER LEVEL PLAN - A (SERVICE PIPING) | SHEET: 279 |
| | | | | | | | | | DWG: 20-P-135 |
| | | | | | | | | | DATE: MAY 19 2006 |
| | | | | | | | | | PROJ: 326918 |

REUSE OF DOCUMENTS: CH2M HILL

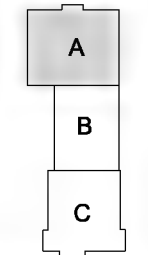


NOTES:
 FOR VENT CONTINUATION BELOW,
 SEE DRAWING 20-P-131.



MATCH LINE, SEE DWG 20-P-142

UPPER LEVEL PLAN - A
 1/4"=1'-0"



KEY PLAN

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY TOM J. REJEFF, STATE OF OREGON, P.E. NO. 13,614.

| | | | | | | |
|--------|-----------|-----|------|----------|----|------|
| DESIGN | TD SMITH | NO. | DATE | REVISION | BY | APVD |
| DR | TD SMITH | | | | | |
| CHK | TJ REJEFF | | | | | |
| APVD | CW MARRIS | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

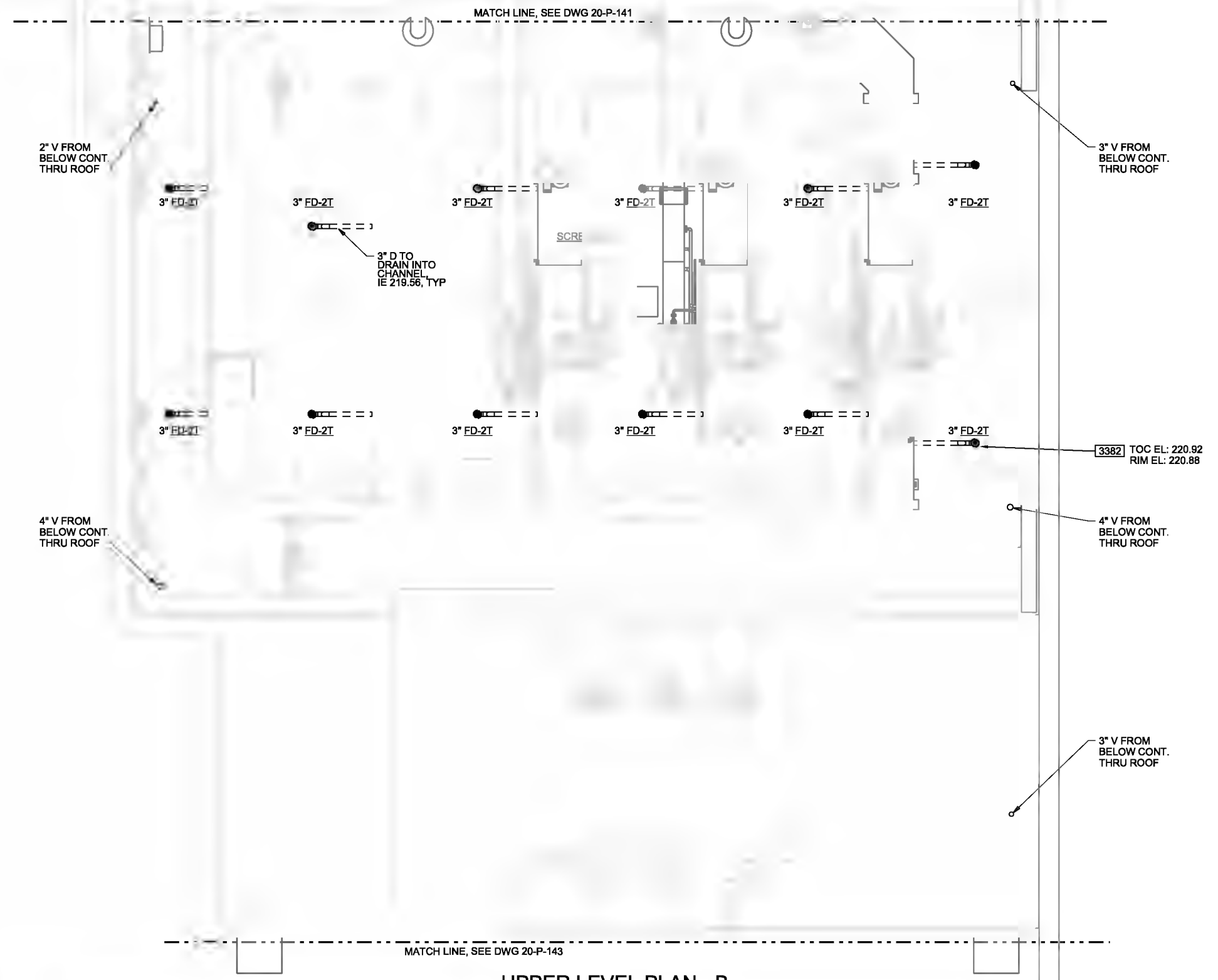
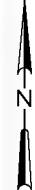


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

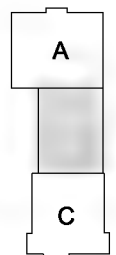
HEADWORKS
PLUMBING
 UPPER LEVEL PLAN - A
 (SOLIDS HANDLING)

| | |
|-------|-------------|
| SHEET | 280 |
| DWG | 20-P-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL. IT IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.



UPPER LEVEL PLAN - B
1/4"=1'-0"



KEY PLAN

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| | | | | | | |
|------|-----------|-----|------|----------|----|------|
| DSGN | TD SMITH | NO. | DATE | REVISION | BY | APVD |
| DR | TD SMITH | | | | | |
| CHK | TJ REJFI | | | | | |
| APVD | CW MASSIE | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
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0 = 1"
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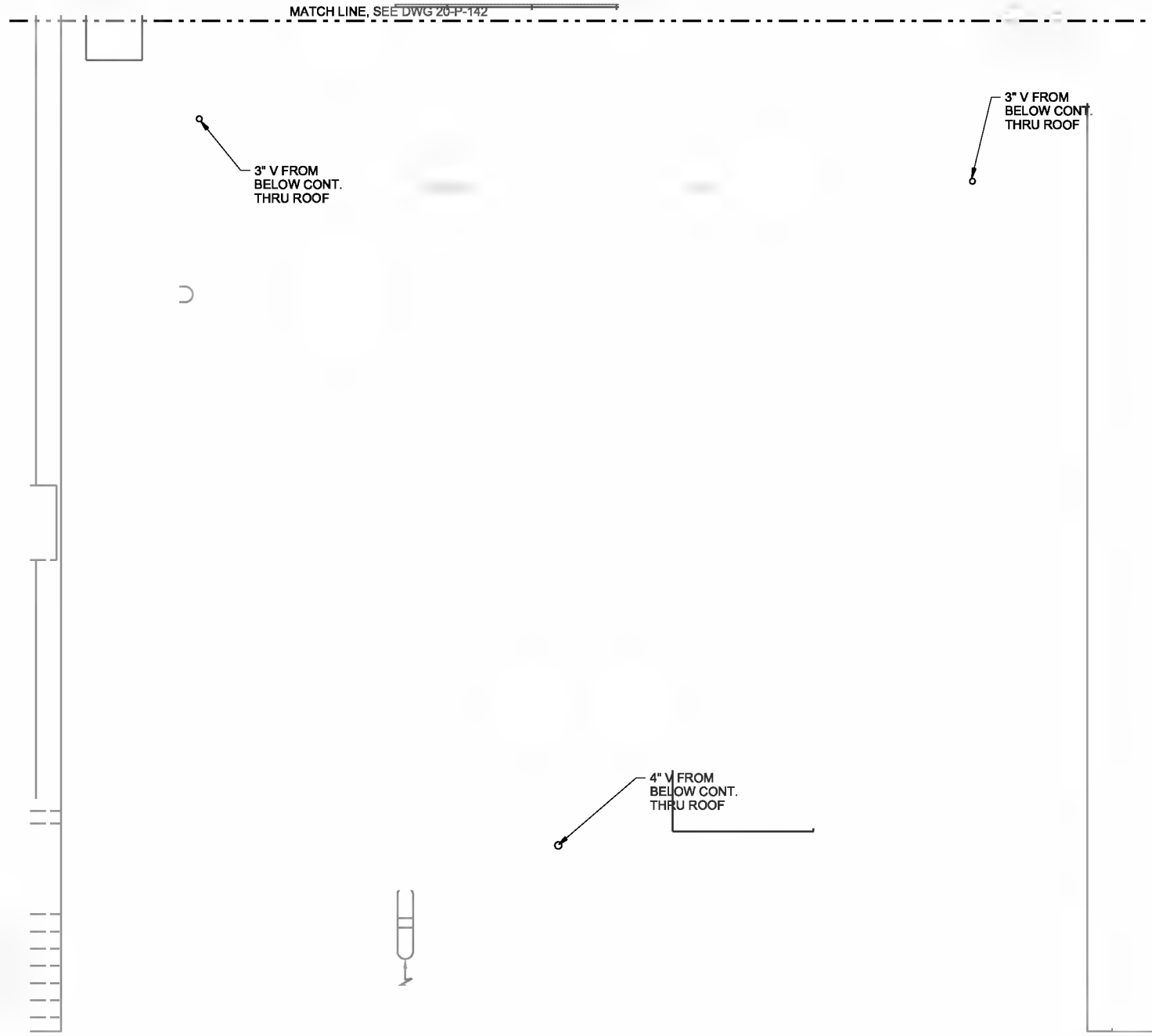
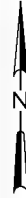


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

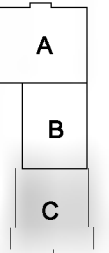
HEADWORKS
PLUMBING
UPPER LEVEL PLAN - B
(SCREENING)

| | |
|-------|-------------|
| SHEET | 281 |
| DWG | 20-P-142 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.



UPPER LEVEL PLAN - C
1/4"=1'-0"



KEY PLAN

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| | | | | | |
|-----------------------------|----------------------------|---------------|-------------------|-------------------|-------------------|
| DESIGNED BY T. J. REJFIR | CHECKED BY T. J. REJFIR | DATE 05/06 | SCALE AS-BUILT | BRK BY APVD | KEG BY APVD |
|-----------------------------|----------------------------|---------------|-------------------|-------------------|-------------------|

VERIFIED SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

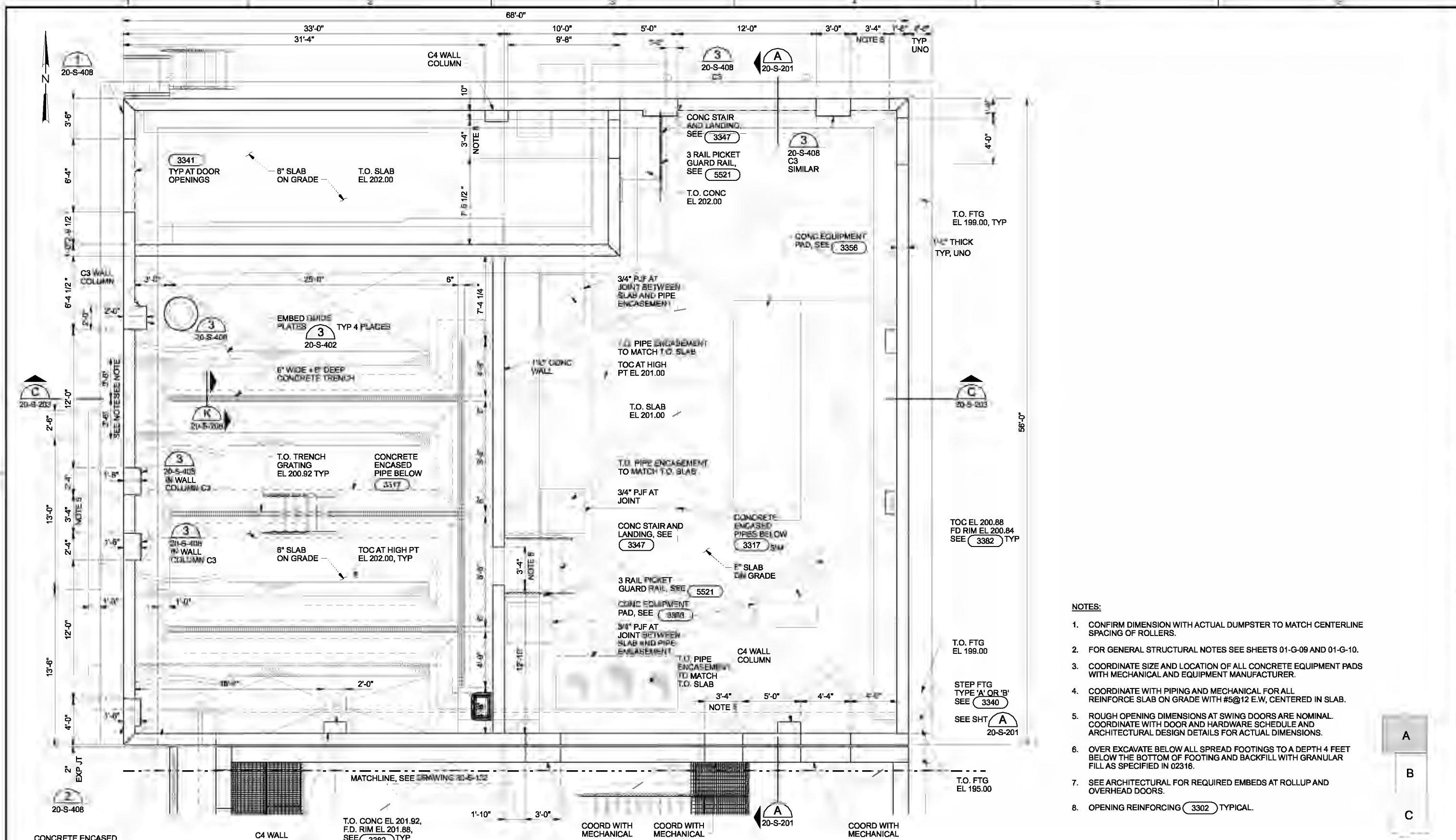


CITY OF ALBANY
SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
PLUMBING
UPPER LEVEL PLAN - C
(GRIT)

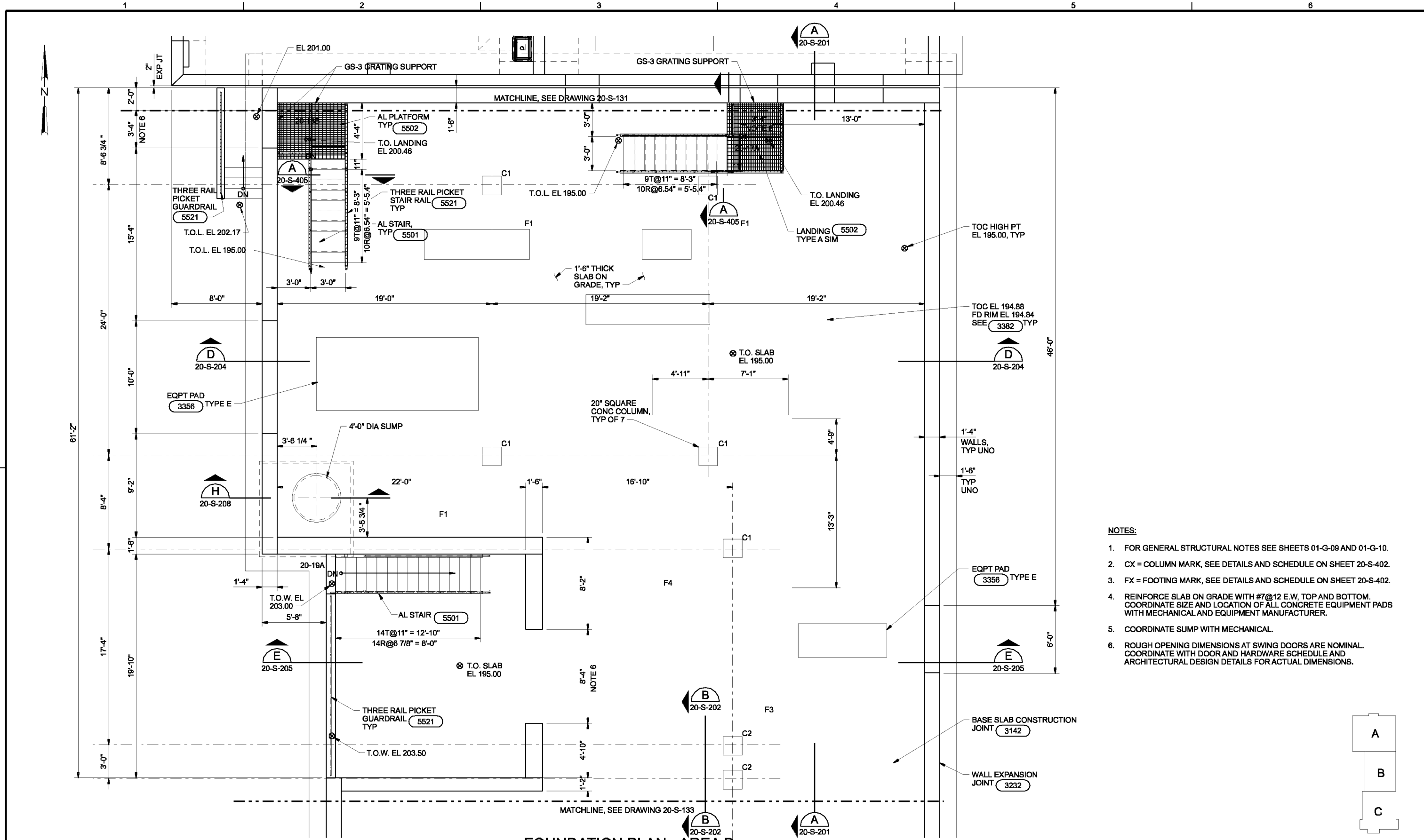
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|-------|-------------|
| SHEET | 282 |
| DWG | 20-P-143 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

REUSE OF DOCUMENTS: CH2MHILL



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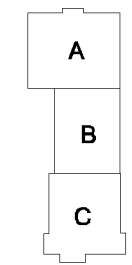
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|------|-------------|--|-----|------|--|---|---|-----------------------|-------------|
| DSGN | WW KOHLER | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | MLR | AGC | CH2MHILL CAROLLO engineers | CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENTS PROJECT WWTP-03-01 LINN COUNTY, OREGON | HEADWORKS STRUCTURAL FOUNDATION/LOWER LEVEL PLAN - A (SOLIDS HANDLING) | SHEET | 283 |
| DR | KJ DAVIS | | | | | | | DWG | 20-S-131 |
| CHK | MJ MERKLEIN | | | | | | | DATE | MAY 19 2006 |
| APVD | CW MASSIE | | | | | | | NO. | 326918 |
| NO. | DATE | REVISION | BY | APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0" = 1' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | FILENAME: 20161911_100618.dwg | PLOT DATE: 2/2/2011 | PLOT TIME: 4:12:04 PM | |



FOUNDATION PLAN - AREA B
1/4"=1'-0"

NOTES:

1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS 01-G-09 AND 01-G-10.
2. CX = COLUMN MARK, SEE DETAILS AND SCHEDULE ON SHEET 20-S-402.
3. FX = FOOTING MARK, SEE DETAILS AND SCHEDULE ON SHEET 20-S-402.
4. REINFORCE SLAB ON GRADE WITH #7@12 E.W, TOP AND BOTTOM. COORDINATE SIZE AND LOCATION OF ALL CONCRETE EQUIPMENT PADS WITH MECHANICAL AND EQUIPMENT MANUFACTURER.
5. COORDINATE SUMP WITH MECHANICAL.
6. ROUGH OPENING DIMENSIONS AT SWING DOORS ARE NOMINAL. COORDINATE WITH DOOR AND HARDWARE SCHEDULE AND ARCHITECTURAL DESIGN DETAILS FOR ACTUAL DIMENSIONS.



KEY PLAN

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| | | | | | | |
|------|-------------|-----|------|----------|----|------|
| DSGN | WW KOHLER | NO. | DATE | REVISION | BY | APVD |
| DR | KJ DAVIS | | | | | |
| CHK | MJ MERKLEIN | | | | | |
| APVD | CW MASSIE | | | | | |

| | |
|------|-----|
| MLR | AGC |
| APVD | |

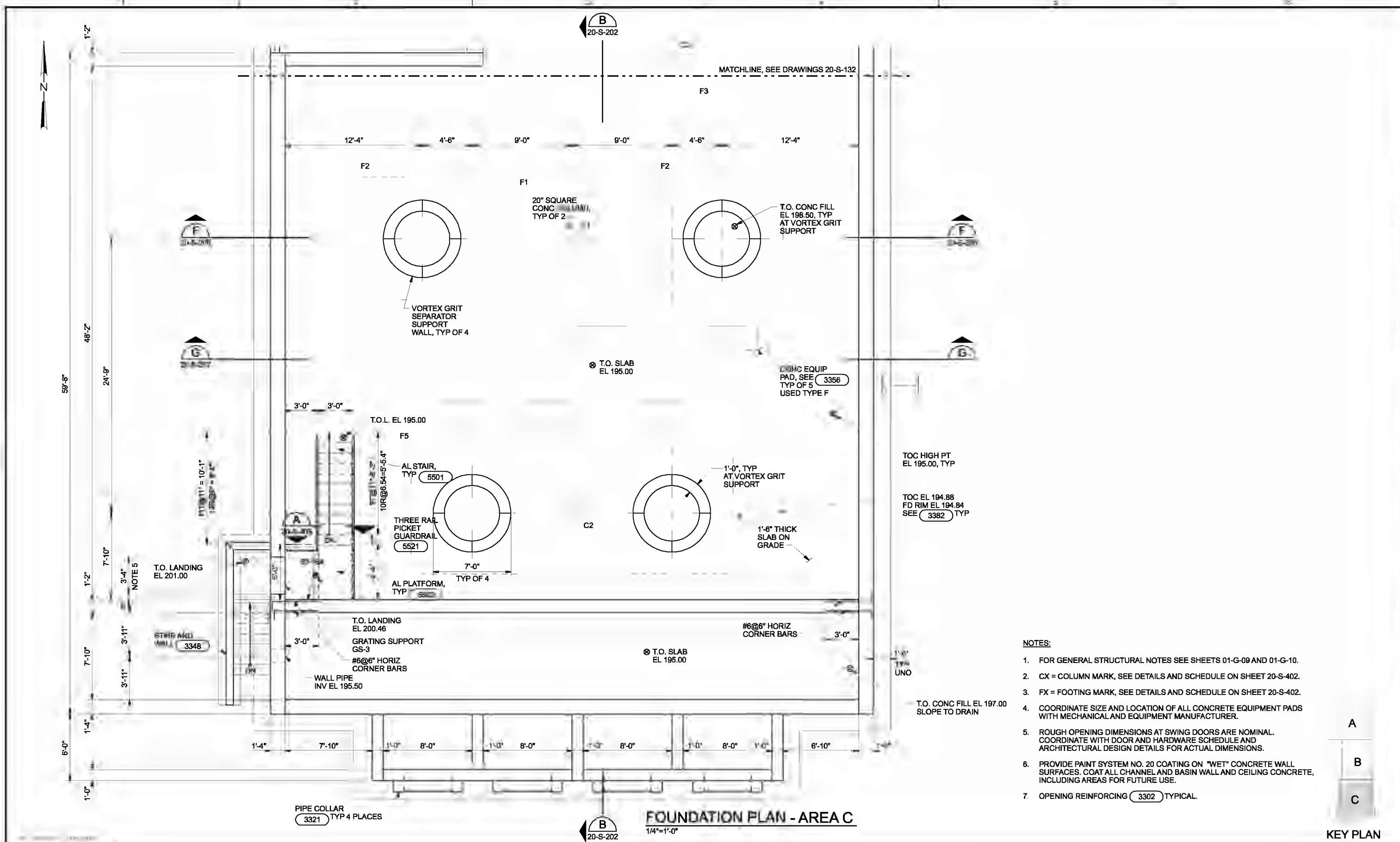


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

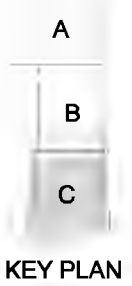
HEADWORKS
STRUCTURAL
FOUNDATION/LOWER LEVEL PLAN - B
(SCREENING)

| | |
|-------|-------------|
| SHEET | 284 |
| DWG | 20-S-132 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
- FOR GENERAL STRUCTURAL NOTES SEE SHEETS 01-G-09 AND 01-G-10.
 - CX = COLUMN MARK, SEE DETAILS AND SCHEDULE ON SHEET 20-S-402.
 - FX = FOOTING MARK, SEE DETAILS AND SCHEDULE ON SHEET 20-S-402.
 - COORDINATE SIZE AND LOCATION OF ALL CONCRETE EQUIPMENT PADS WITH MECHANICAL AND EQUIPMENT MANUFACTURER.
 - ROUGH OPENING DIMENSIONS AT SWING DOORS ARE NOMINAL. COORDINATE WITH DOOR AND HARDWARE SCHEDULE AND ARCHITECTURAL DESIGN DETAILS FOR ACTUAL DIMENSIONS.
 - PROVIDE PAINT SYSTEM NO. 20 COATING ON "WET" CONCRETE WALL SURFACES. COAT ALL CHANNEL AND BASIN WALL AND CEILING CONCRETE, INCLUDING AREAS FOR FUTURE USE.
 - OPENING REINFORCING (3302) TYPICAL.



FOUNDATION PLAN - AREA C
1/4"=1'-0"

| | | | | | | | |
|---|-------------|-----|------|----------|-----|------|---|
| DSGN | WW KOHLER | NO. | DATE | REVISION | BY | APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | KJ DAVIS | | | | | | |
| CHK | MJ MERKLEIN | | | | | | |
| APVD | CW MASSIE | | | | | | |
| | | | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | | | MLR | AGC | | |

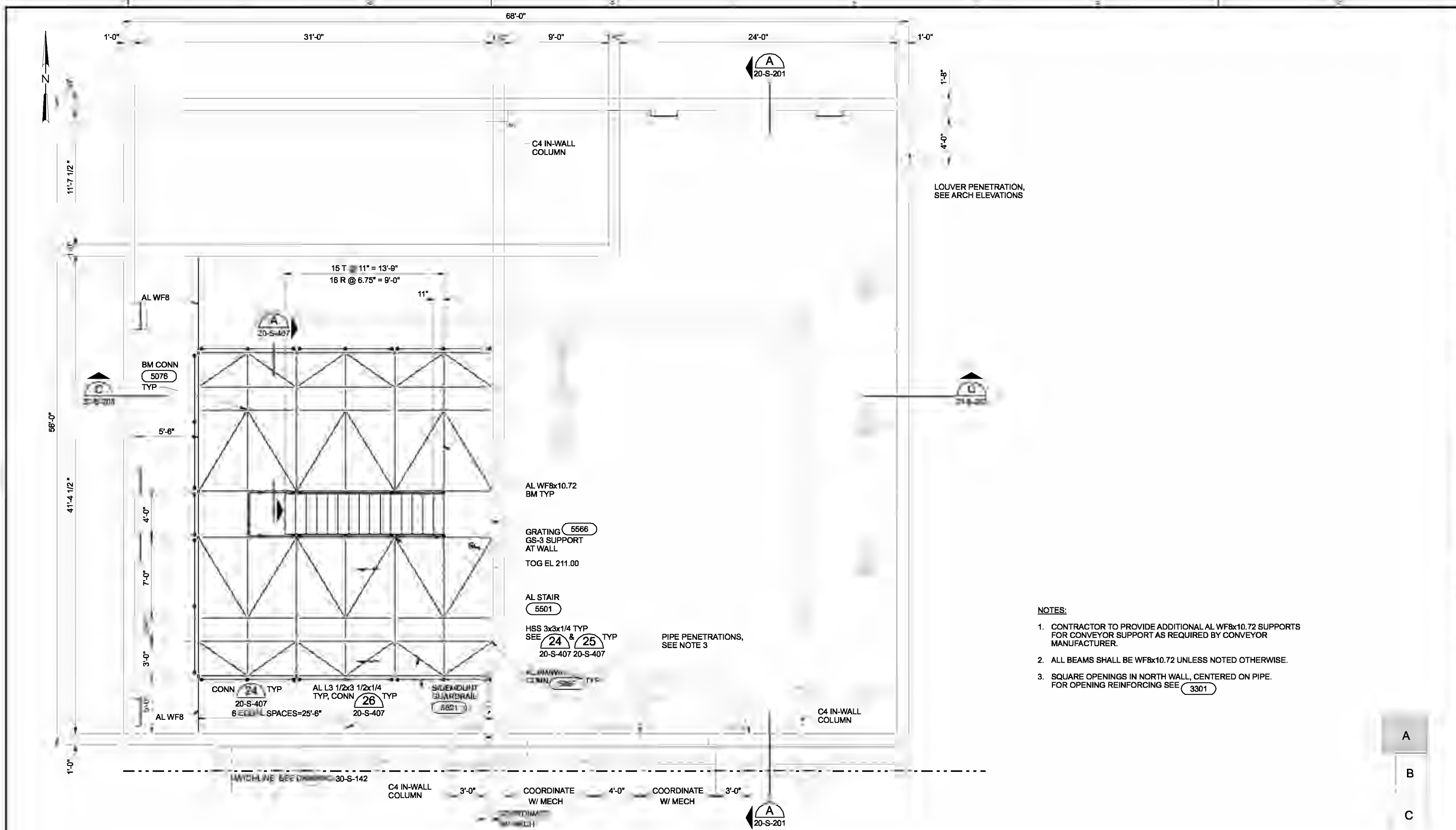


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
STRUCTURAL
FOUNDATION/LOWER LEVEL PLAN - C
(GRIT)

| | |
|-------|-------------|
| SHEET | 285 |
| DWG | 20-S-133 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

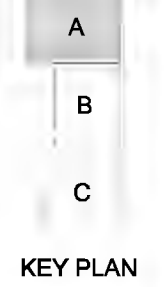
REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL. CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.



NOTES:

1. CONTRACTOR TO PROVIDE ADDITIONAL AL WF8x10.72 SUPPORTS FOR CONVEYOR SUPPORT AS REQUIRED BY CONVEYOR MANUFACTURER.
2. ALL BEAMS SHALL BE WF8x10.72 UNLESS NOTED OTHERWISE.
3. SQUARE OPENINGS IN NORTH WALL, CENTERED ON PIPE. FOR OPENING REINFORCING SEE 3301

UPPER LEVEL PLAN - AREA A
1/4"=1'-0"



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| | | | | | | | |
|------|-------------|---------|------|----------|----|------|--|
| DSGN | WW KOHLER | | | | | | |
| DR | KJ DAVIS | | | | | | |
| CHK | MJ MERKLEIN | 01/2010 | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
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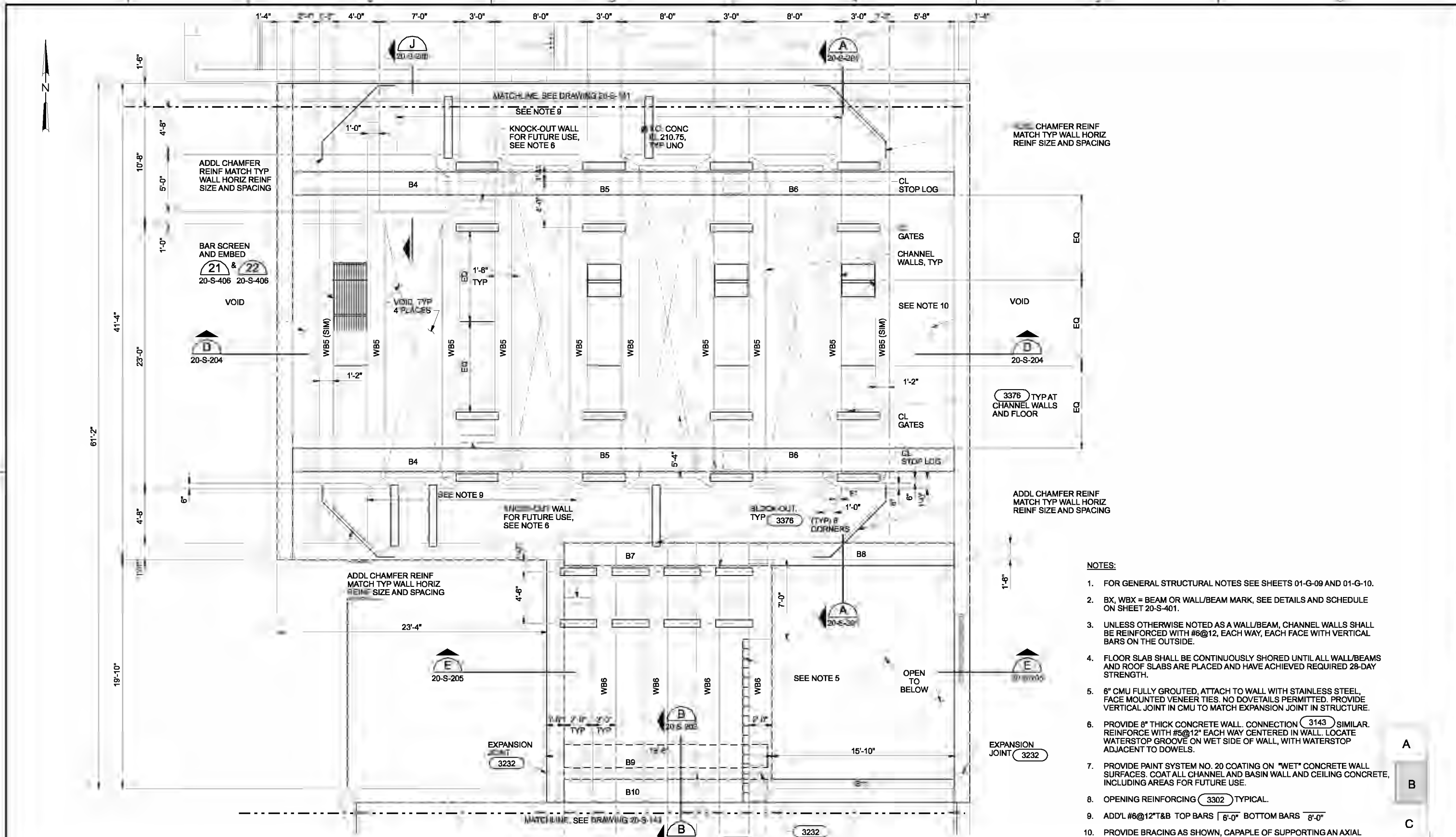


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
**STRUCTURAL
UPPER LEVEL PLAN - A
(SOLIDS HANDLING)**

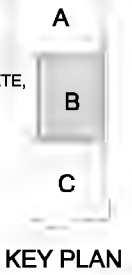
| | |
|-------|-------------|
| SHEET | 286 |
| DWG | 20-S-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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UPPER LEVEL PLAN - AREA B
1/4"=1'-0"

- NOTES:
- FOR GENERAL STRUCTURAL NOTES SEE SHEETS 01-G-09 AND 01-G-10.
 - BX, WBX = BEAM OR WALL/BEAM MARK, SEE DETAILS AND SCHEDULE ON SHEET 20-S-401.
 - UNLESS OTHERWISE NOTED AS A WALL/BEAM, CHANNEL WALLS SHALL BE REINFORCED WITH #6@12, EACH WAY, EACH FACE WITH VERTICAL BARS ON THE OUTSIDE.
 - FLOOR SLAB SHALL BE CONTINUOUSLY SHORED UNTIL ALL WALL/BEAMS AND ROOF SLABS ARE PLACED AND HAVE ACHIEVED REQUIRED 28-DAY STRENGTH.
 - 6" CMU FULLY GROUTED, ATTACH TO WALL WITH STAINLESS STEEL, FACE MOUNTED VENEER TIES. NO DOVETAILS PERMITTED. PROVIDE VERTICAL JOINT IN CMU TO MATCH EXPANSION JOINT IN STRUCTURE.
 - PROVIDE 8" THICK CONCRETE WALL. CONNECTION (3143) SIMILAR. REINFORCE WITH #5@12" EACH WAY CENTERED IN WALL. LOCATE WATERSTOP GROOVE ON WET SIDE OF WALL, WITH WATERSTOP ADJACENT TO DOWELS.
 - PROVIDE PAINT SYSTEM NO. 20 COATING ON "WET" CONCRETE WALL SURFACES. COAT ALL CHANNEL AND BASIN WALL AND CEILING CONCRETE, INCLUDING AREAS FOR FUTURE USE.
 - OPENING REINFORCING (3302) TYPICAL.
 - ADD'L #6@12" T&B TOP BARS | 6'-0" BOTTOM BARS 8'-0"
 - PROVIDE BRACING AS SHOWN, CAPABLE OF SUPPORTING AN AXIAL LOAD OF 4000 LBS IN TENSION OR COMPRESSION. INSTALL BRACES ± 18" BELOW TOP OF CONCRETE WALL. (9 TOTAL REQUIRED)



| | | | | | | | |
|------|-------------|---------|------|----------|----|------|--|
| DSGN | WW KOHLER | | | | | | |
| DR | KJ DAVIS | | | | | | |
| CHK | MJ MERKLEIN | 01/2010 | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

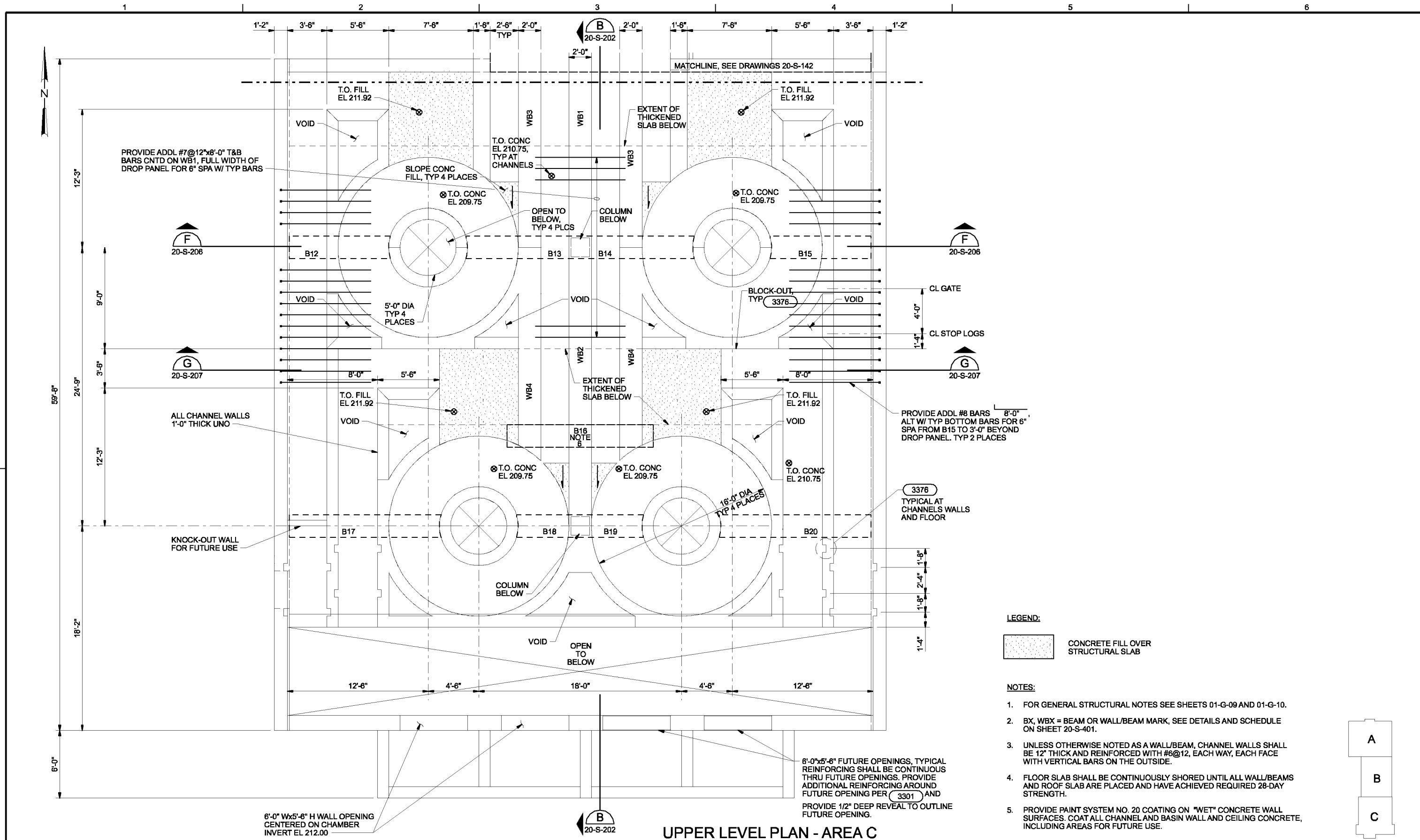


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
STRUCTURAL
UPPER LEVEL PLAN - B
(SCREENING)

| | |
|-------|-------------|
| SHEET | 287 |
| DWG | 20-S-142 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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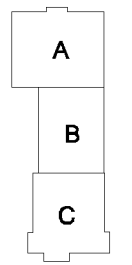
UPPER LEVEL PLAN - AREA C
1/4"=1'-0"

LEGEND:

 CONCRETE FILL OVER STRUCTURAL SLAB

NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEETS 01-G-09 AND 01-G-10.
- BX, WBX = BEAM OR WALL/BEAM MARK, SEE DETAILS AND SCHEDULE ON SHEET 20-S-401.
- UNLESS OTHERWISE NOTED AS A WALL/BEAM, CHANNEL WALLS SHALL BE 12" THICK AND REINFORCED WITH #6@12, EACH WAY, EACH FACE WITH VERTICAL BARS ON THE OUTSIDE.
- FLOOR SLAB SHALL BE CONTINUOUSLY SHORED UNTIL ALL WALL/BEAMS AND ROOF SLAB ARE PLACED AND HAVE ACHIEVED REQUIRED 28-DAY STRENGTH.
- PROVIDE PAINT SYSTEM NO. 20 COATING ON "WET" CONCRETE WALL SURFACES. COAT ALL CHANNEL AND BASIN WALL AND CEILING CONCRETE, INCLUDING AREAS FOR FUTURE USE.
- EXTEND B16 INTO FAR EDGE OF WB4 WALL BEAMS ABOVE.



KEY PLAN

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| | | | | | | |
|---|-------------|-----|------|----------|----|------|
| DSGN | WW KOHLER | NO. | DATE | REVISION | BY | APVD |
| DR | KJ DAVIS | | | | | |
| CHK | MJ MERKLEIN | | | | | |
| APVD | CW MASSIE | | | | | |
| | | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | MLR | AGC | | | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
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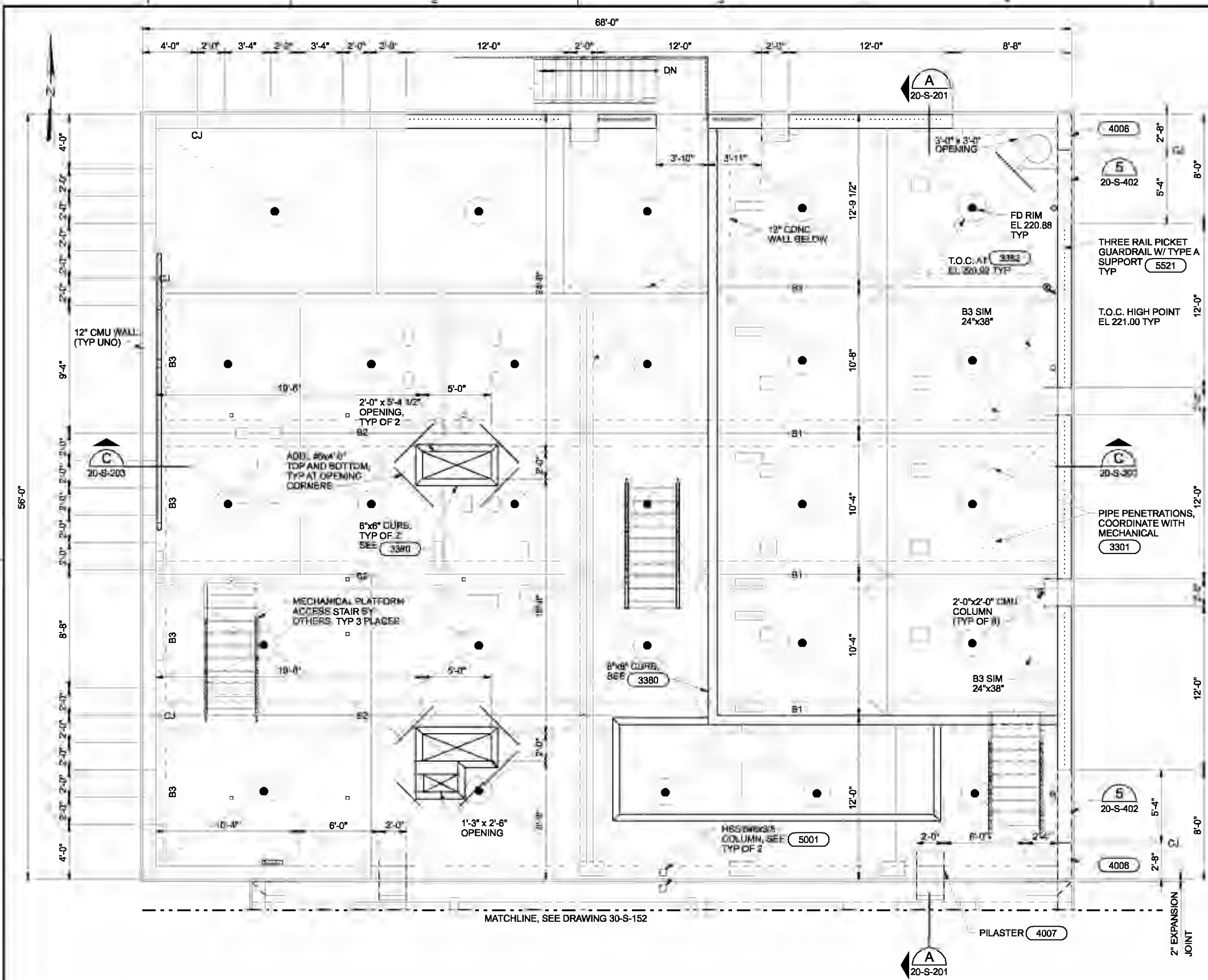


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
STRUCTURAL
UPPER LEVEL PLAN - C
(GRIT)

| | |
|-------|-------------|
| SHEET | 288 |
| DWG | 20-S-143 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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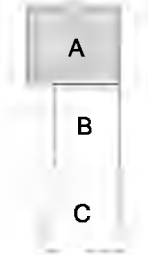


TOP PLAN - AREA A
1/4"=1'-0"

CJ = CONTROL JOINT

NOTES:

1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS 01-G-09 AND 01-G-10.
2. BX = BEAM MARK, SEE DETAILS AND SCHEDULE ON SHEET 20-S-401.
3. COORDINATE SIZE AND LOCATION OF ALL CONCRETE PEDESTALS FOR MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND EQUIPMENT MANUFACTURERS.
4. FOR MASONRY DETAILING, SEE TYPICAL DETAILS 4001, 4002, 4003, 4004, 4005, 4006, 4031, AND 4041.
5. FOR ADDITIONAL REINFORCING AROUND PENETRATIONS SEE 3301
6. SOLID GROUT ALL CMU CONSTRUCTION



KEY PLAN

| | | | | | | | | | |
|------|-------------|-----|------|----------|----|------|-----|-----|---|
| DSGN | WW KOHLER | NO. | DATE | REVISION | BY | APVD | MLR | RAH | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | KJ DAVIS | | | | | | | | |
| CHK | MJ MERKLEIN | | | | | | | | |
| APVD | CW MASSIE | | | | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

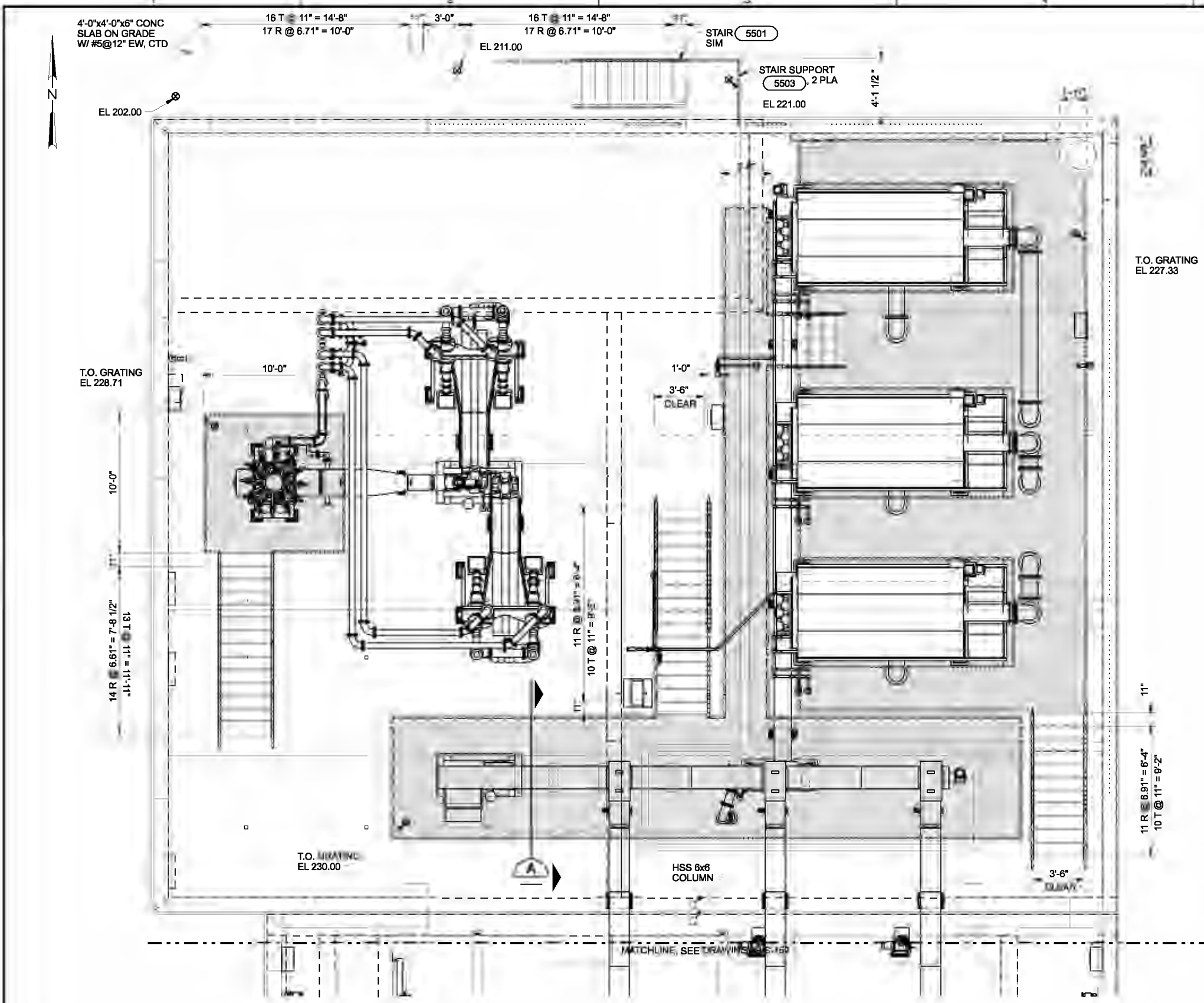


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
STRUCTURAL TOP PLAN - A
(SOLIDS HANDLING)

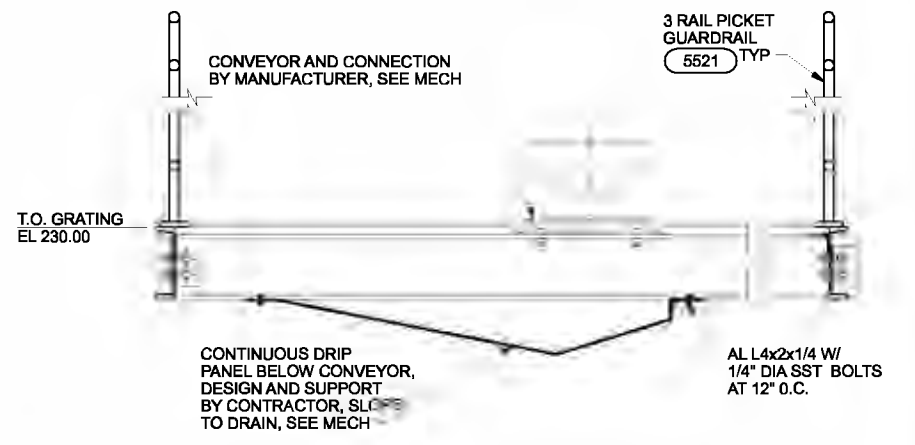
| | |
|-------|-------------|
| SHEET | 289 |
| DWG | 20-S-151 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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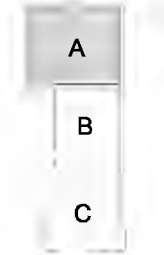


NEW PLATFORM NOTES:

- EQUIPMENT PLATFORMS SHALL BE DESIGNED AND DETAILED BY THE CONTRACTOR'S PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OREGON. SEE DETAIL 5601
- PLATFORMS SHALL BE DESIGNED FOR THE MAXIMUM LOADING THAT MAY BE ENCOUNTERED DURING CONSTRUCTION, OPERATION AND MAINTENANCE. AS A MINIMUM, ALL PLATFORMS SHALL BE DESIGNED TO LIMIT DEFLECTION TO 1/360 OF THE SPAN UNDER A LIVE LOAD OF 100 POUNDS PER SQUARE FOOT PLUS DEAD LOAD. PLATFORMS SHALL BE DESIGNED TO ACCOMMODATE THERMAL EXPANSION AND SEISMIC LOADS.
- PLATFORMS SHALL BE FURNISHED AND ERECTED TO PROVIDE ACCESS FOR OPERATION AND MAINTENANCE FUNCTIONS AND FOR SUPPORT OF VARIOUS EQUIPMENT ITEMS. THE PLATFORM SYSTEM SHALL CONFORM TO THE GENERAL ARRANGEMENT SHOWN ON THE DRAWINGS, BUT SHALL BE ADAPTED AS REQUIRED TO SUIT THE EQUIPMENT CONFIGURATION PROVIDED AND PROVIDE REQUIRED SUPPORT FOR THE EQUIPMENT PER THE MANUFACTURER'S REQUIREMENTS. CLEARANCES AROUND EQUIPMENT ITEMS AND TRAVEL PATHS SHALL BE MAINTAINED WITH A MAXIMUM OPENING SIZE OF 4 INCHES BETWEEN THE PLATFORM AND EQUIPMENT. PLATFORMS SHALL INCLUDE, BUT NOT BE LIMITED TO, GRATING, HANDRAIL, ACCESS WALKWAYS, STAIRWAYS, SUPPORT BEAMS AND COLUMNS, FRAMING, FASTENERS, ANCHORS, AND APPURTENANCES.
- ALL METAL WORK SHALL BE AS SPECIFIED IN SECTION 05500, METAL FABRICATIONS AND CASTINGS, SECTION 05520, HANDRAILS, AND SECTION 05530, METAL GRATING.
- PROVIDE EDGE SUPPORT FOR GRATING AROUND ALL OPENINGS AND EQUIPMENT. PROVIDE TOE KICK AT ALL OPENINGS EVEN IF HANDRAIL IS NOT REQUIRED.
- UNLESS SHOWN OTHERWISE ALL DIMENSIONS AROUND EQUIPMENT SHALL PROVIDE A MINIMUM 3'-8" CLEAR PLATFORM WIDTH.



SECTION A
1"=1'-0"



KEY PLAN

EQUIPMENT PLATFORM PLAN
1/4"=1'-0"

| | | | | | | | | | |
|------|--------------|---------|------|----------|----|------|--|--|--|
| DSGN | MJ MERKLEIN | | | | | | | | |
| DR | HF JOCHIMSEN | | | | | | | | |
| CHK | SM FREY | 01/2010 | | | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | | | |

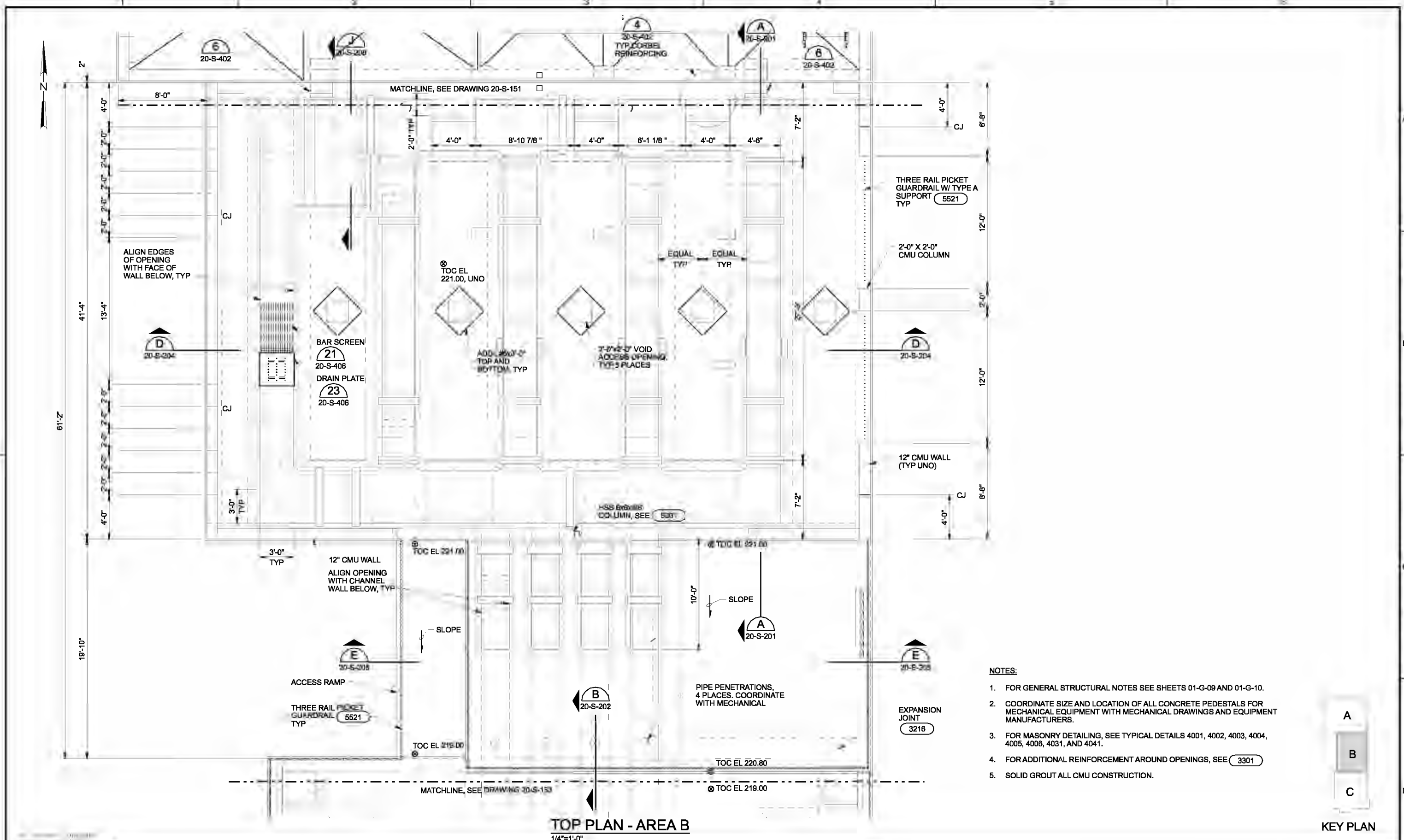


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

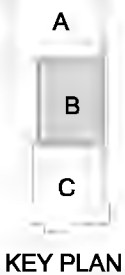
HEADWORKS
STRUCTURAL
EQUIPMENT PLATFORM PLAN - A
(SOLIDS HANDLING)

| | |
|-------|-------------|
| SHEET | 290 |
| DWG | 20-S-151A |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
1. FOR GENERAL STRUCTURAL NOTES SEE SHEETS 01-G-09 AND 01-G-10.
 2. COORDINATE SIZE AND LOCATION OF ALL CONCRETE PEDESTALS FOR MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND EQUIPMENT MANUFACTURERS.
 3. FOR MASONRY DETAILING, SEE TYPICAL DETAILS 4001, 4002, 4003, 4004, 4005, 4006, 4031, AND 4041.
 4. FOR ADDITIONAL REINFORCEMENT AROUND OPENINGS, SEE (3301)
 5. SOLID GROUT ALL CMU CONSTRUCTION.



TOP PLAN - AREA B
1/4"=1'-0"

| | | | |
|------|-------------|--|--------------------|
| DSGN | WW KOHLER | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT NO. DATE REVISION | MLR RAH BY APVD |
| DR | KJ DAVIS | | |
| CHK | MJ MERKLEIN | | |
| APVD | CW MASSIE | | |

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

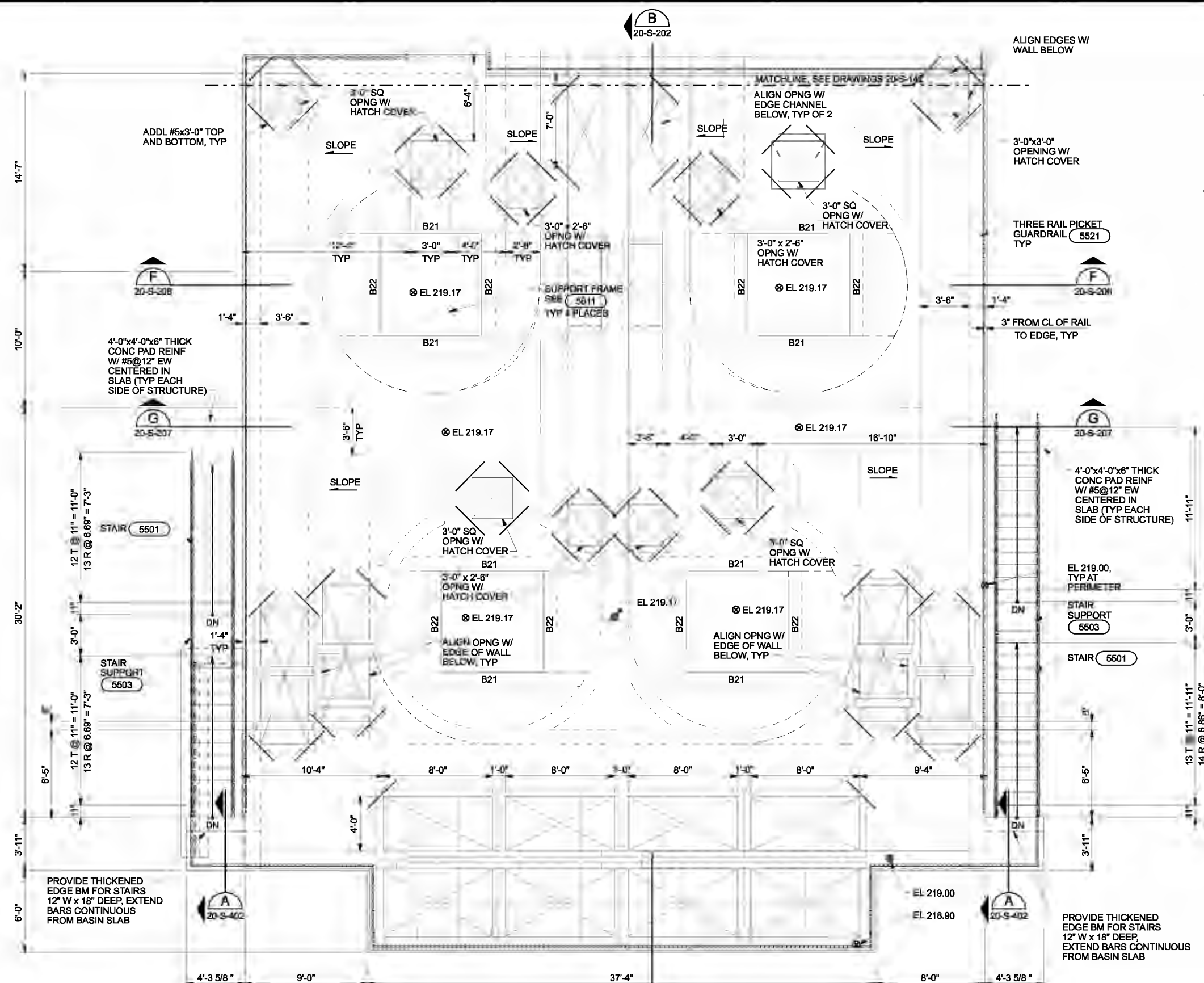
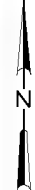


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

HEADWORKS
**STRUCTURAL
 TOP PLAN - B
 (SCREENING)**

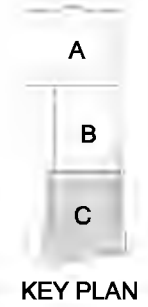
| | |
|-------|-------------|
| SHEET | 291 |
| DWG | 20-S-152 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
- FOR GENERAL STRUCTURAL NOTES SEE SHEETS 01-G-09 AND 01-G-10.
 - BX = BEAM MARK, SEE DETAILS AND SCHEDULE ON SHEET 20-S-401.
 - COORDINATE SIZE AND LOCATION OF ALL CONCRETE PEDESTALS FOR MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND EQUIPMENT MANUFACTURERS.
 - FOR REINFORCING AROUND OPENINGS, SEE 3301

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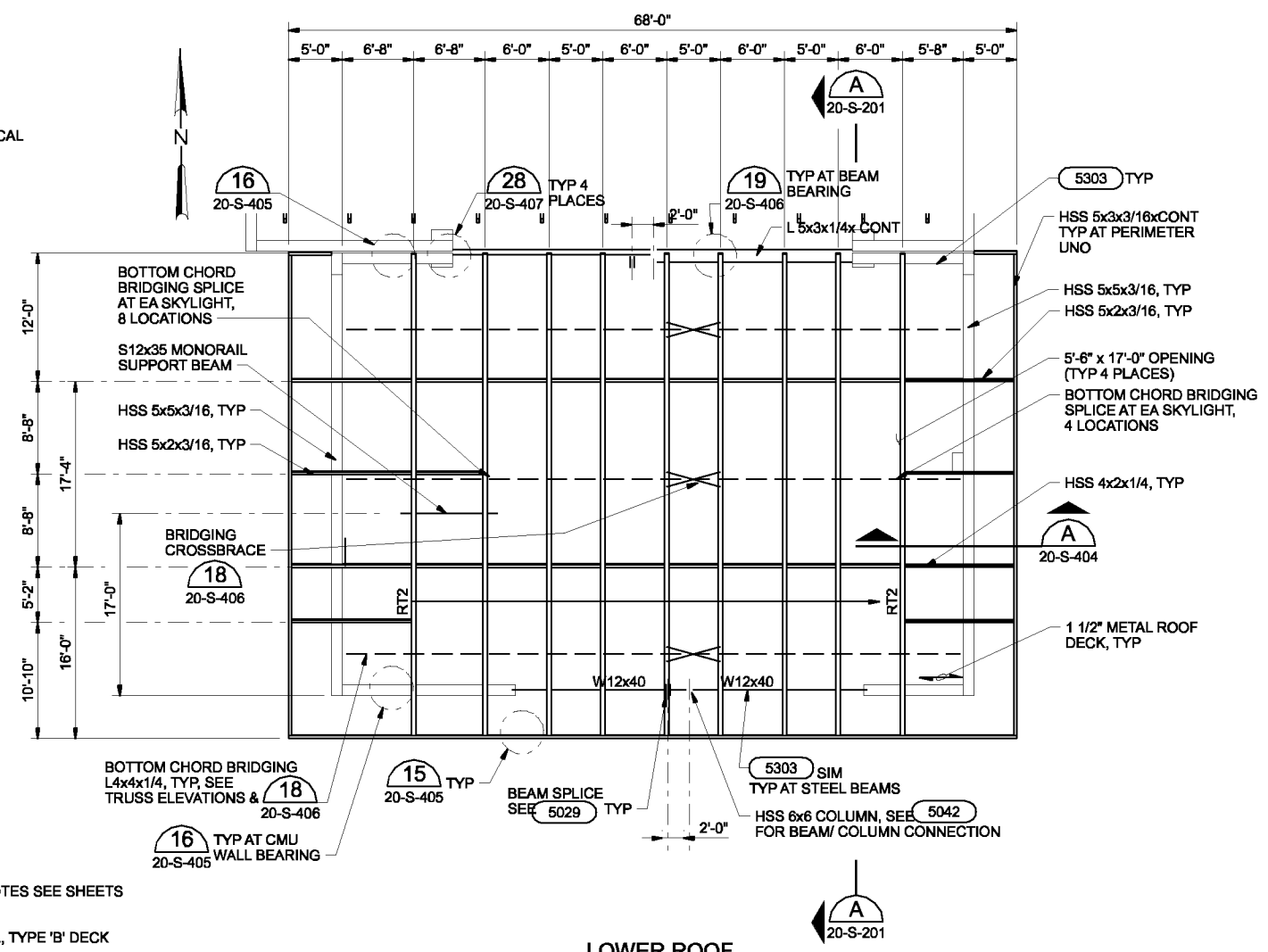
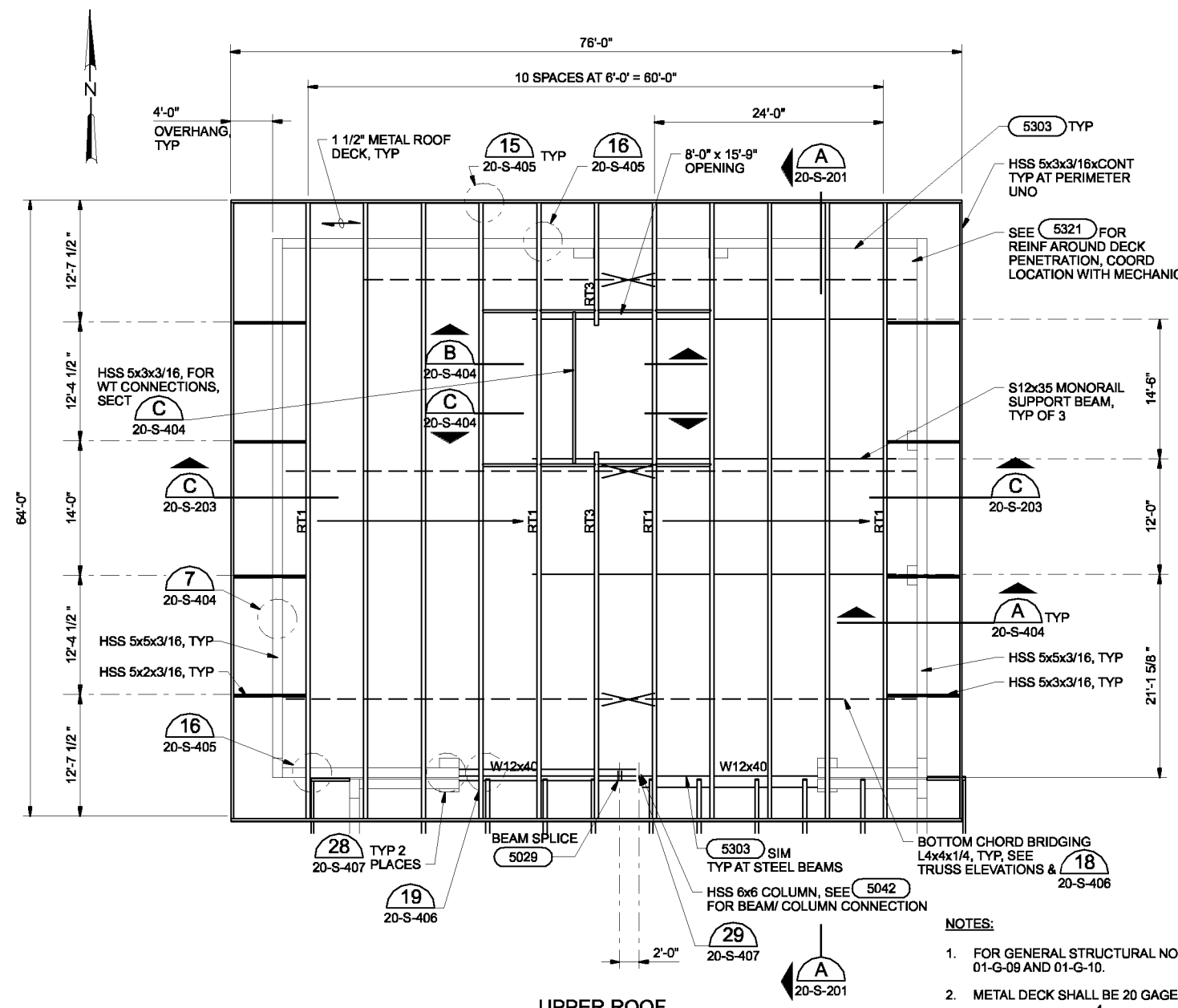
TOP PLAN - AREA C
1/4"=1'-0"

| | | | | | | | | | |
|------|-------------|---------|------|----------|----|------|--|--|--|
| DSGN | WW KOHLER | | | | | | | | |
| DR | KJ DAVIS | | | | | | | | |
| CHK | MJ MERKLEIN | 01/2010 | | | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | | | |



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

| | | |
|--------------|-------|-------------|
| HEADWORKS | SHEET | 292 |
| STRUCTURAL | DWG | 20-S-153 |
| TOP PLAN - C | DATE | MAY 19 2006 |
| (GRIT) | PROJ | 326918 |



- NOTES:**
- FOR GENERAL STRUCTURAL NOTES SEE SHEETS 01-G-09 AND 01-G-10.
 - METAL DECK SHALL BE 20 GAGE, TYPE 'B' DECK
 $I_{min} = 0.216 \text{ in}^4$
 $+S_{min} = 0.235 \text{ in}^3$
 $-S_{min} = 0.248 \text{ in}^3$
 - ATTACH METAL DECK TO ROOF FRAMING MEMBERS WITH 3/4" DIAMETER WELDS AT EACH FLUTE.
 - USE 1 1/2" TOP SEAM WELDS AT 24" ON CENTER.
 - COMPLETED DIAPHRAGM SHALL DEVELOP A MINIMUM OF 800 LB/FT.
 - SUPPORTS PARALLEL TO DECK SPAN SHALL HAVE 3/4" DIAMETER PUDDLE WELDS @ 1'-0" SPACING.
 - ROOF TRUSSES, BRIDGING, OUTRIGGERS AND ALL OTHER ROOF COMPONENTS SHALL BE PAINTED WITH SYSTEM 4 AS SPECIFIED IN SECTION 9900.
 - ROOF TRUSSES ARE UNSTABLE UNTIL FULL ROOF INSTALLATION IS COMPLETE. CONTRACTOR IS REQUIRED TO PROVIDE ALL SHORING AND OTHER MEANS OF SUPPORT FOR COMPLETE STABILITY DURING COINSTRUCTION.

ROOF FRAMING PLAN
1/8"=1'-0"

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY MARK J. MERKLEIN STATE OF OREGON, P.E. NO. 58,357.

| | | | | | | |
|---|-------------|-----|------|----------|----|------|
| DSGN | WW KOHLER | NO. | DATE | REVISION | BY | APVD |
| DR | KJ DAVIS | | | | | |
| CHK | MJ MERKLEIN | | | | | |
| APVD | CW MASSIE | | | | | |
| | | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | MLR | RAH | | | |
| VERIFY SCALE | | | | | | |
| BAR IS ONE INCH ON ORIGINAL DRAWING. | | | | | | |
| IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | | | | | | |

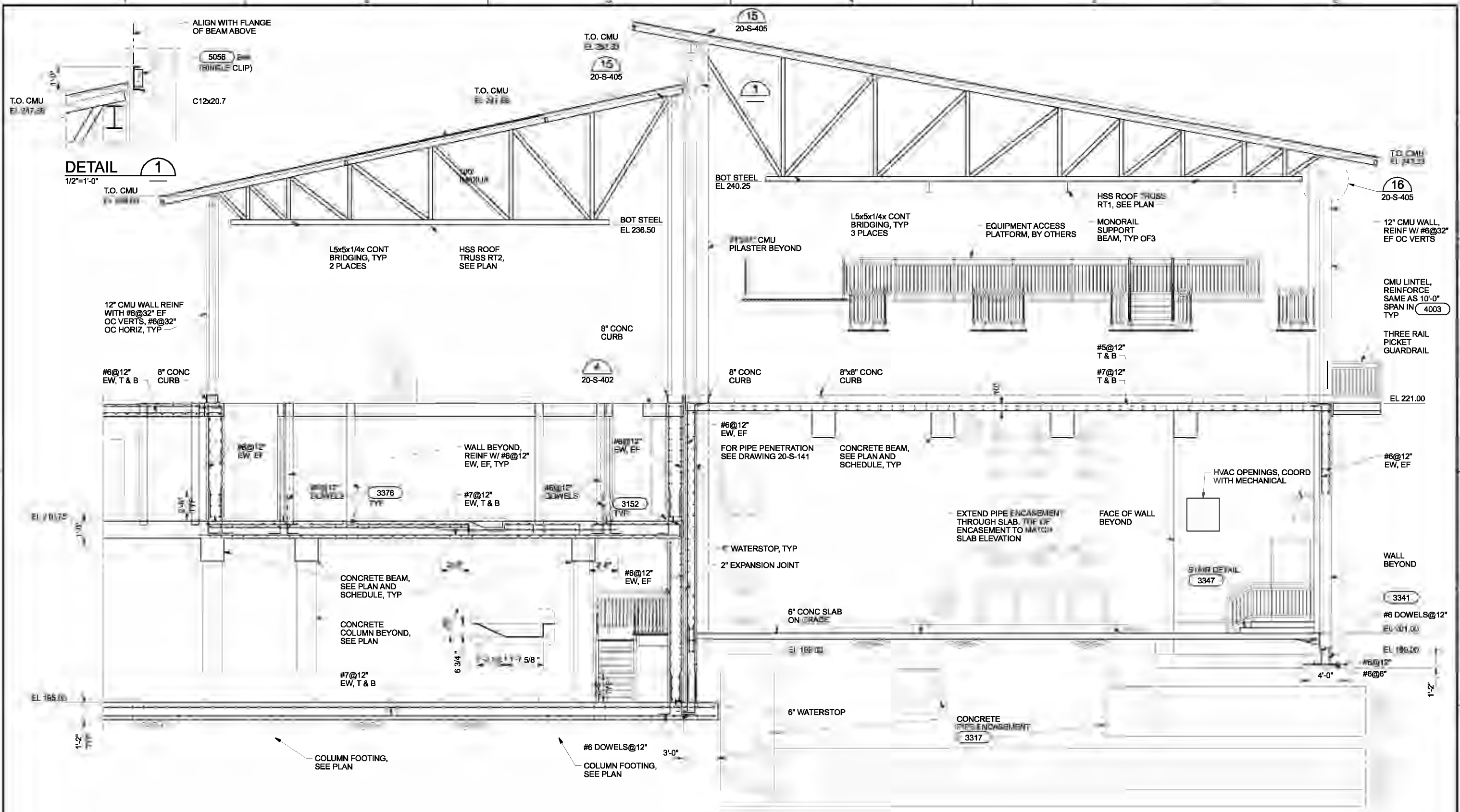


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
STRUCTURAL
ROOF FRAMING PLAN - A
(SOLIDS HANDLING)

| | |
|-------|-------------|
| SHEET | 293 |
| DWG | 20-S-161 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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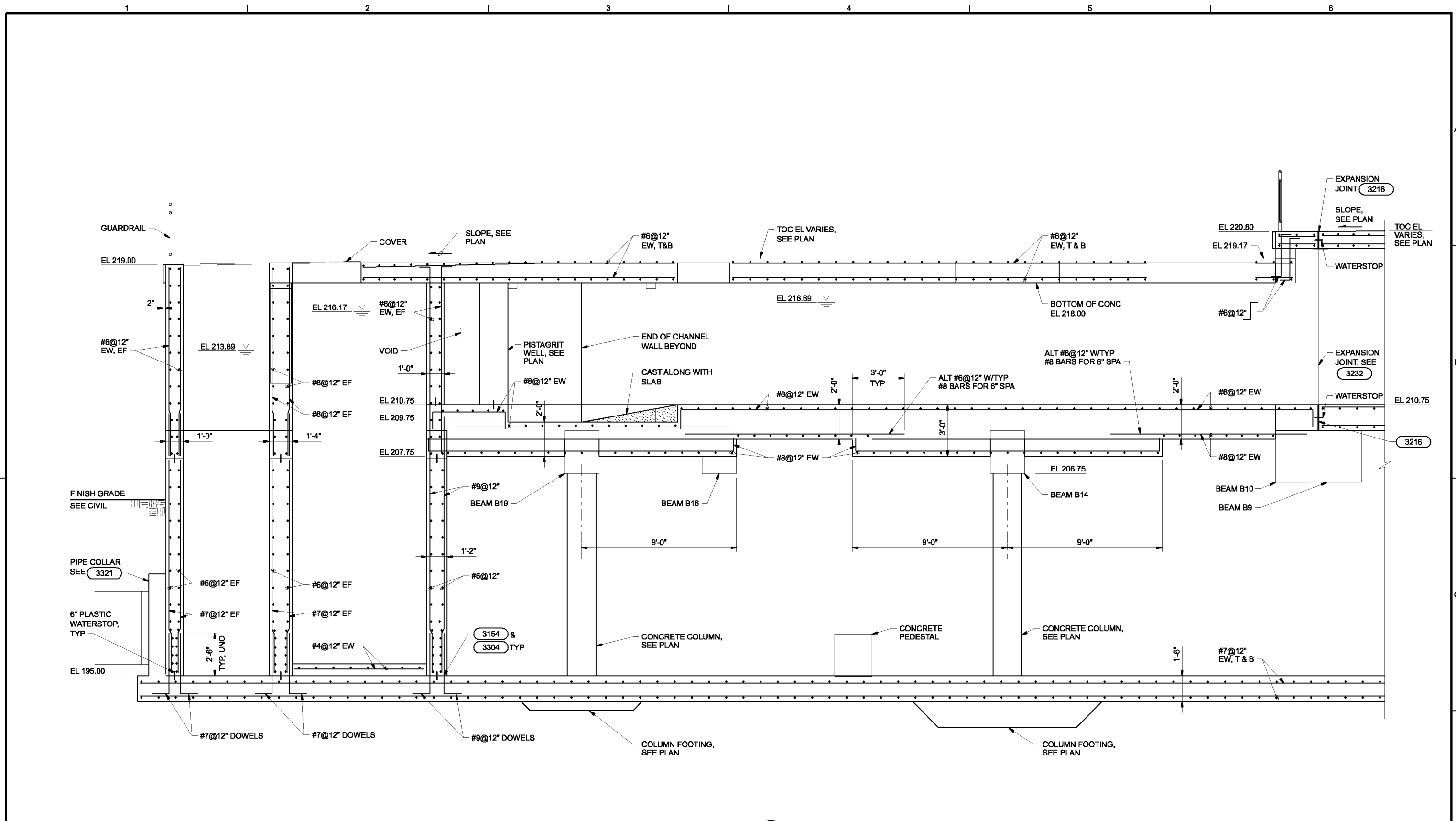
DETAIL 1
1/2"=1'-0"

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

20-S-131, 20-S-132
20-S-141, 20-S-142
20-S-151, 20-S-152

| | | | | | | | | | |
|------|-------------|--|--------------------|---|---|---|--|-------|-------------|
| DSGN | WW KOHLER | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | MLR RAH BY APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | CH2MHILL CAROLLO engineers | CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENTS PROJECT WWTP-03-01 LINN COUNTY, OREGON | HEADWORKS STRUCTURAL SECTION | SHEET | 294 |
| DR | KJ DAVIS | | | | | | | DWG | 20-S-201 |
| CHK | MJ MERKLEIN | | | | | | | DATE | MAY 19 2006 |
| APVD | CW MASSIE | | | | | | | NO. | 326918 |

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SECTION B
 3/8"=1'-0" 20-S-132, 20-S-133
 20-S-142, 20-S-143
 20-S-152, 20-S-153

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| | | | | | | |
|------|-------------|-----|------|----------|----|------|
| DSGN | WW KOHLER | NO. | DATE | REVISION | BY | APVD |
| DR | KJ DAVIS | | | | | |
| CHK | MJ MERKLEIN | | | | | |
| APVD | CW MASSIE | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0" = 1'
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

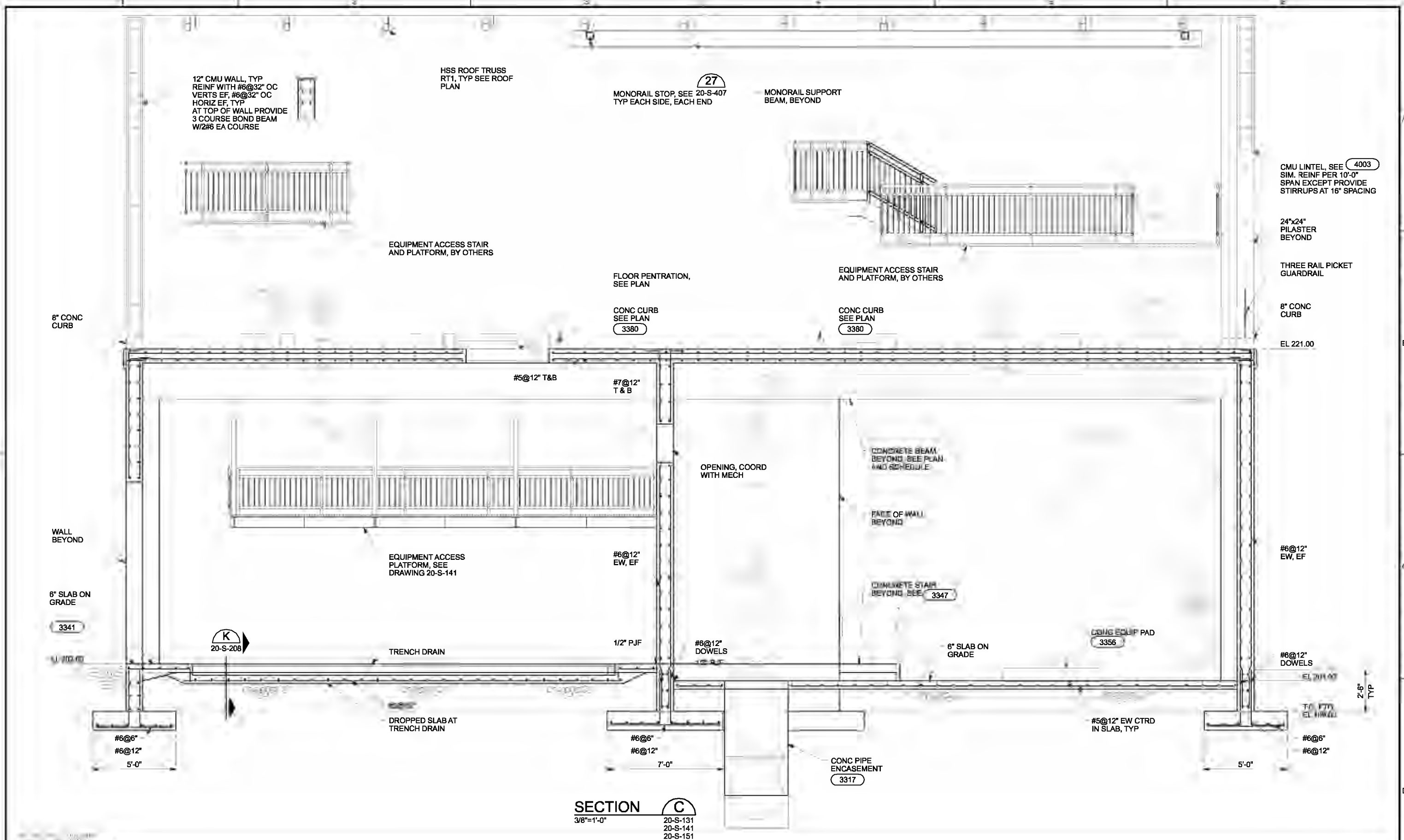


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

HEADWORKS
 STRUCTURAL SECTION

| | |
|-------|-------------|
| SHEET | 295 |
| DWG | 20-S-202 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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SECTION C
 3/8"=1'-0"
 20-S-131
 20-S-141
 20-S-151

| | | | | | | | |
|------|-------------|---------|------|----------|----|------|--|
| DSGN | WW KOHLER | | | | | | |
| DR | KJ DAVIS | | | | | | |
| CHK | MJ MERKLEIN | 01/2010 | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

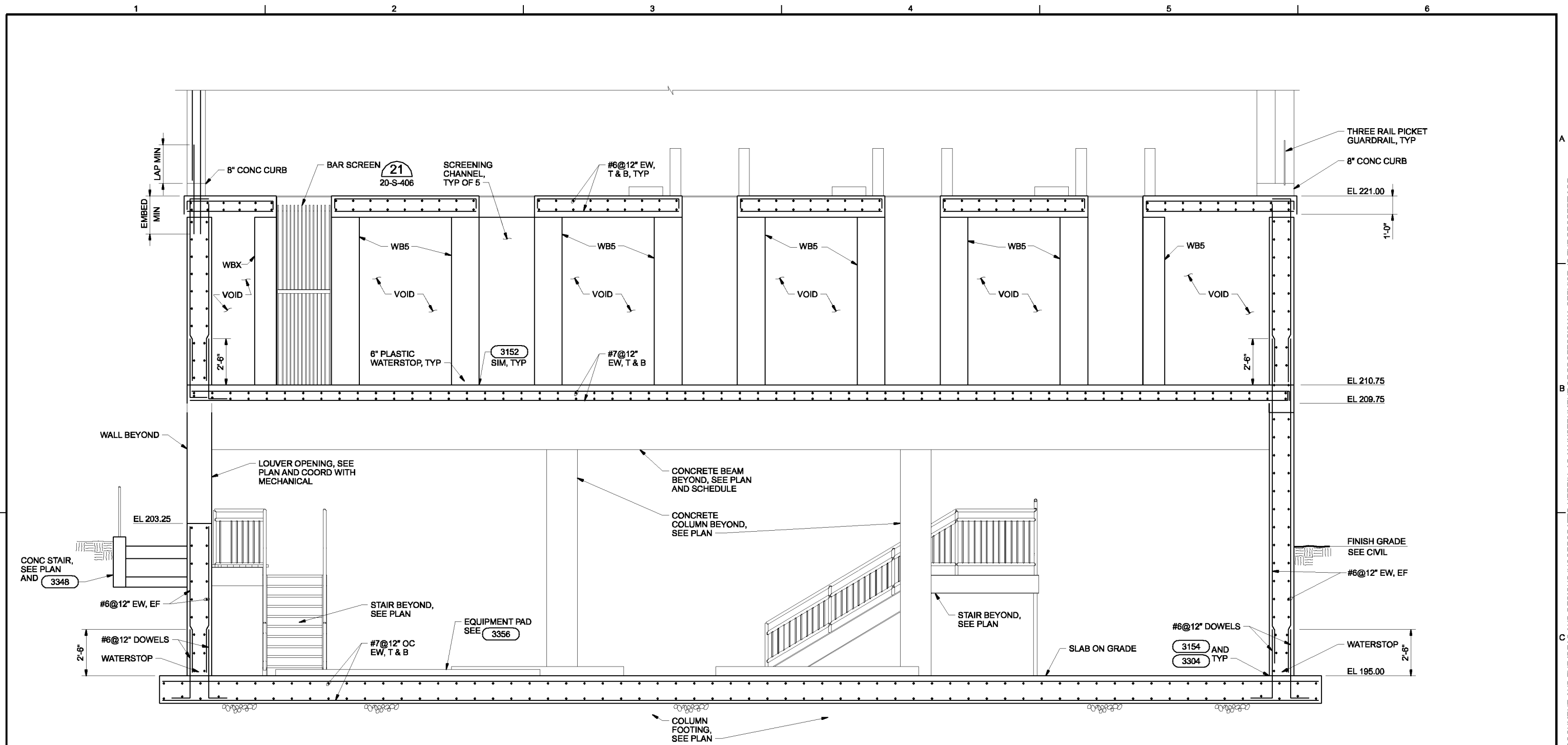


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

HEADWORKS
 STRUCTURAL SECTION

| | |
|-------|-------------|
| SHEET | 296 |
| DWG | 20-S-203 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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SECTION D
 3/8"=1'-0"
 20-S-132
 20-S-142
 20-S-152

NOTE:
 WBX = WALL/BEAM MARK, SEE PLANS
 AND BEAM SCHEDULE ON DRAWING
 20-S-401.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY MARK J. MERKLEIN STATE OF OREGON, P.E. NO. 58,357.

| | | | | | | |
|---|-------------|-----|------|----------|----|------|
| DSGN | WW KOHLER | NO. | DATE | REVISION | BY | APVD |
| DR | KJ DAVIS | | | | | |
| CHK | MJ MERKLEIN | | | | | |
| APVD | CW MASSIE | | | | | |
| | | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | MLR | RAH | | | |

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0" = 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

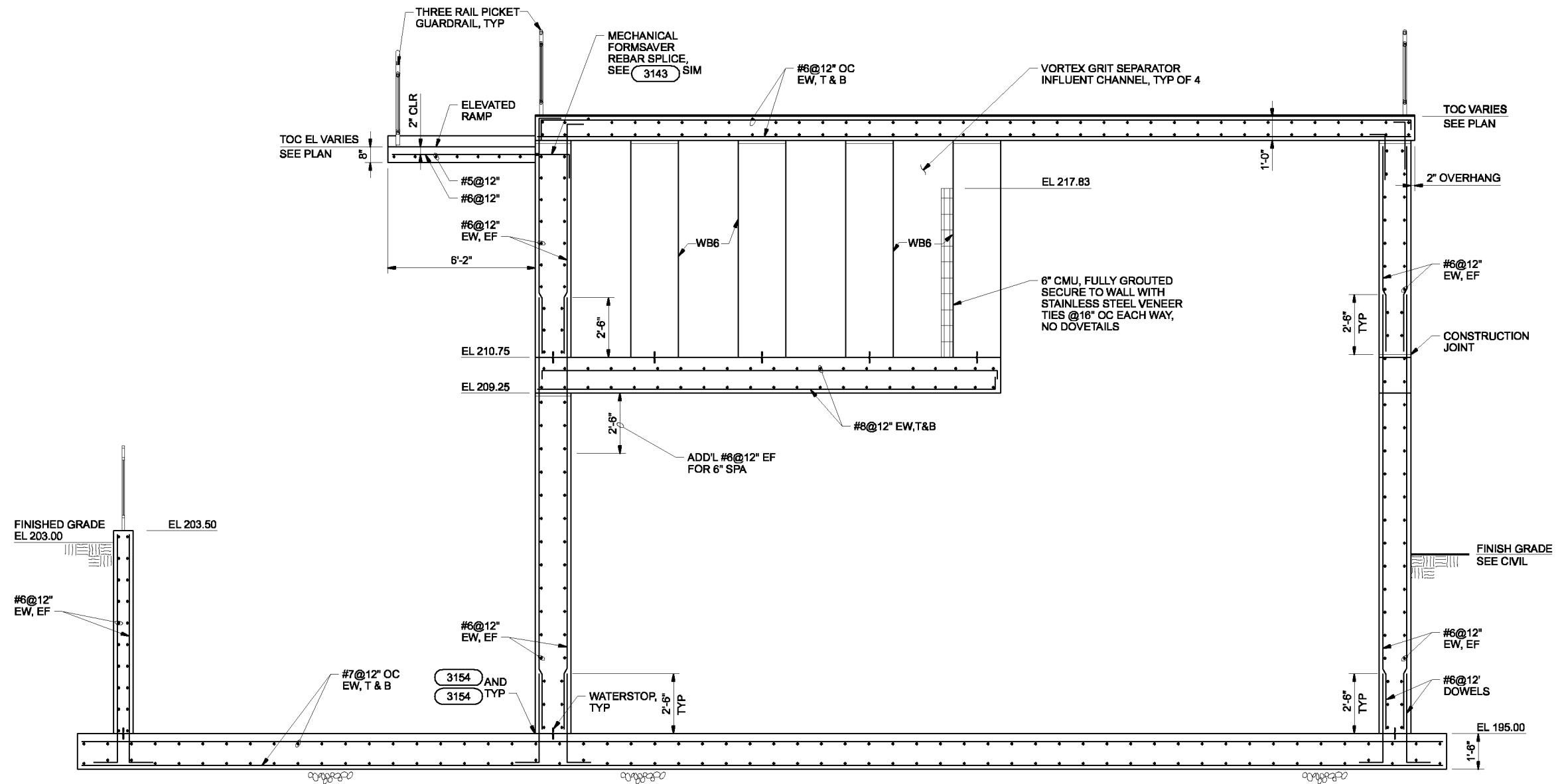


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

HEADWORKS
STRUCTURAL SECTION

| | |
|-------|-------------|
| SHEET | 297 |
| DWG | 20-S-204 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOTE:
 WBX = WALL/BEAM MARK, SEE PLANS
 AND BEAM SCHEDULE ON DRAWING
 20-S-401.

SECTION E
 3/8"=1'-0"
 20-S-132
 20-S-142
 20-S-152

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| | | | | | | | |
|---|-------------|-----|------|----------|-----|------|--|
| DSGN | WW KOHLER | NO. | DATE | REVISION | BY | APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0" = 1' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | KJ DAVIS | | | | | | |
| CHK | MJ MERKLEIN | | | | | | |
| APVD | CW MASSIE | | | | | | |
| | | | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | | | MLR | RAH | | |

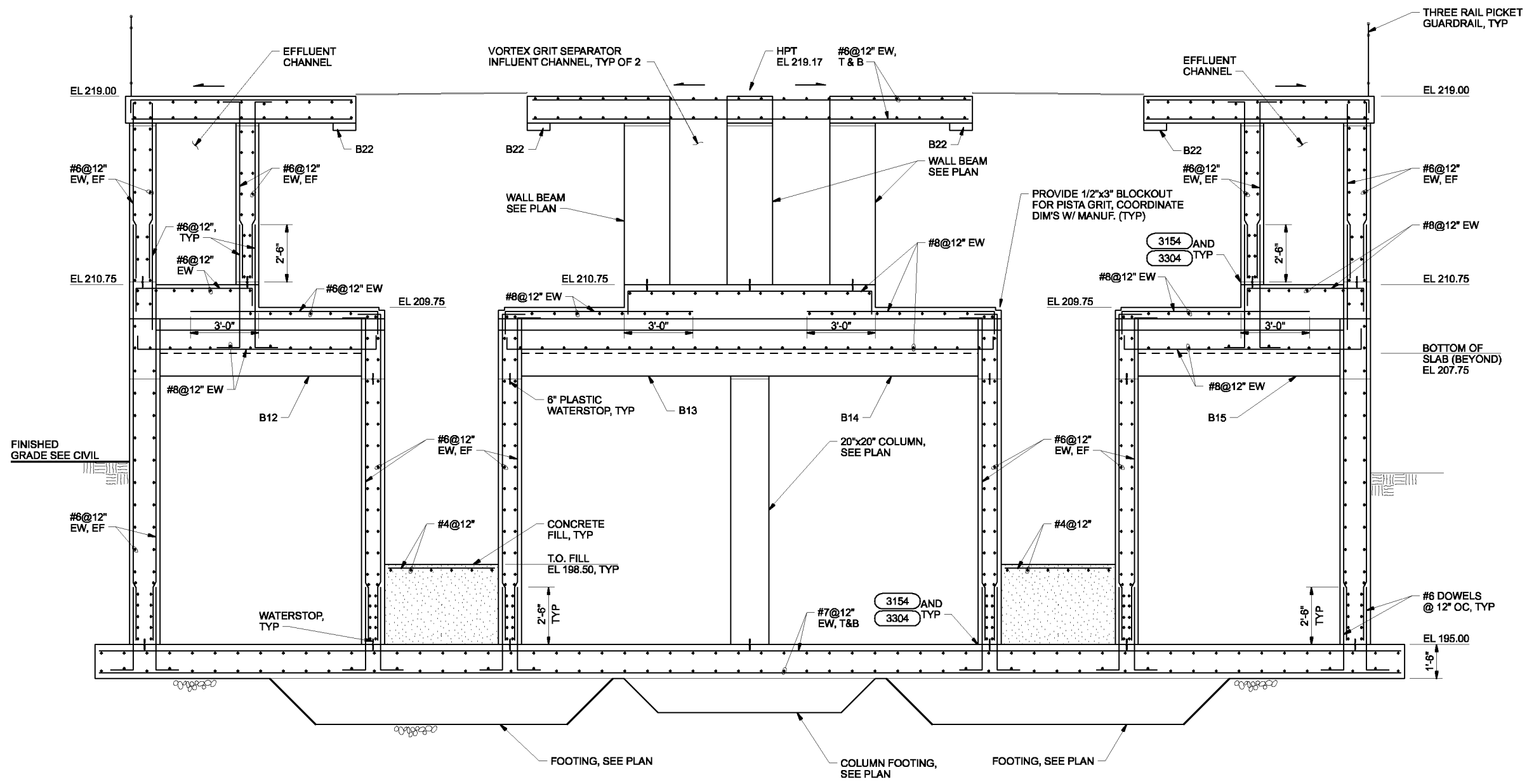


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

HEADWORKS
 STRUCTURAL
 SECTION

| | |
|-------|-------------|
| SHEET | 298 |
| DWG | 20-S-205 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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SECTION **F**
 3/8"=1'-0"
 20-S-133
 20-S-143
 20-S-153

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| | | | | | | |
|---|-------------|-----|------|----------|----|------|
| DSGN | WW KOHLER | NO. | DATE | REVISION | BY | APVD |
| DR | KJ DAVIS | | | | | |
| CHK | MJ MERKLEIN | | | | | |
| APVD | CW MASSIE | | | | | |
| | | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | MLR | RAH | | | |

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

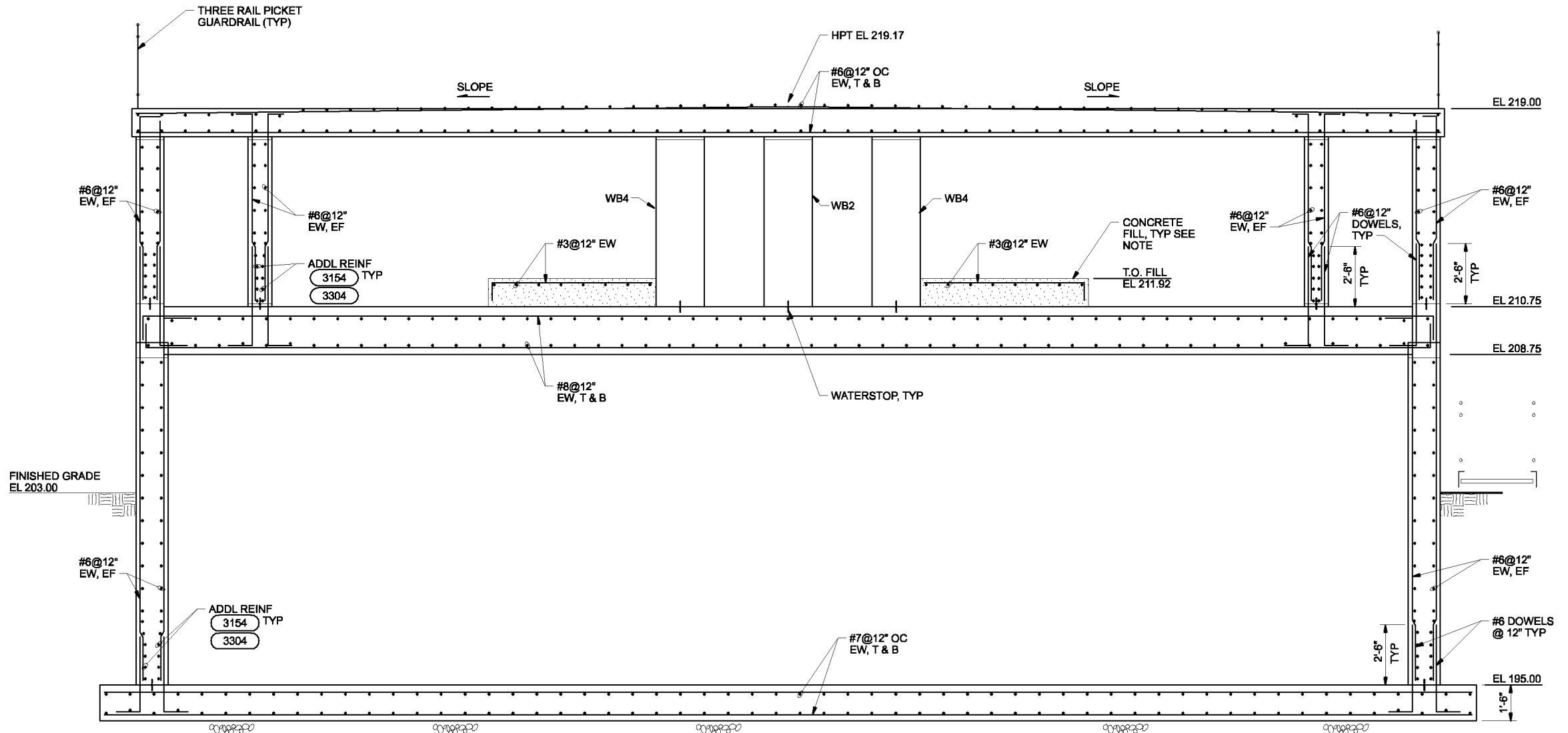


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

HEADWORKS
 STRUCTURAL
 SECTION

| | |
|-------|-------------|
| SHEET | 299 |
| DWG | 20-S-206 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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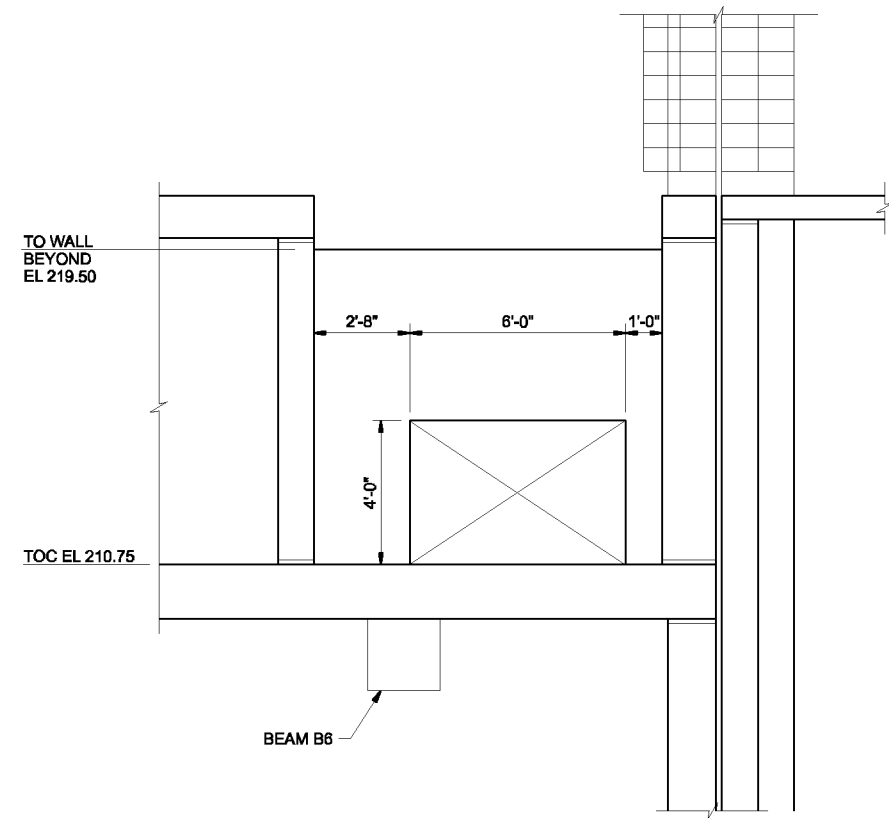
NOTE:
 ROUGHEN AND CLEAN SURFACE OF CONCRETE BELOW FILL TO 1/4" AMPLITUDE. SOAK FOR 24 HOURS PRIOR TO PLACING CONCRETE FILL. FORM FREE EDGES.

SECTION G
 3/8"=1'-0"
 20-S-133
 20-S-143
 20-S-153

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY MARK J. MERKLEIN STATE OF OREGON, P.E. NO. 58,357.

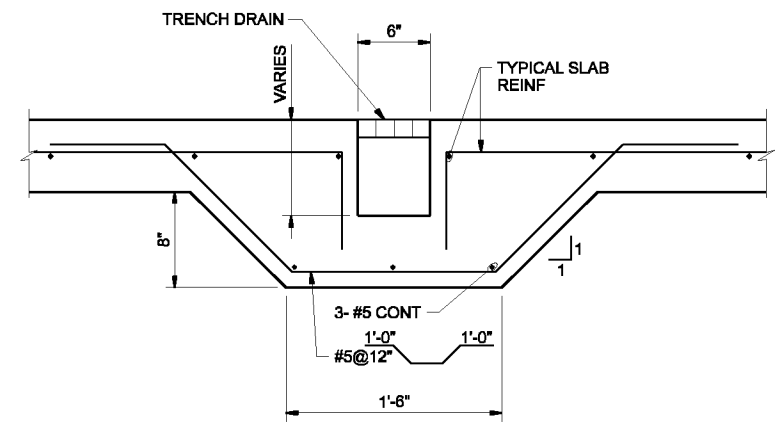
| | | | | | | | | | | | |
|--------------------|----------|----------|---------|---------|------|---|---|---|--|-------|-------------|
| DSGN WW KOHLER | NO. DATE | REVISION | BY APVD | MLR RAH | APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | CH2MHILL CAROLLO engineers | CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENTS PROJECT WWTP-03-01 LINN COUNTY, OREGON | HEADWORKS STRUCTURAL SECTION | SHEET | 300 |
| DR KJ DAVIS | | | | | | | | | | DWG | 20-S-207 |
| CHK MJ MERKLEIN | | | | | | | | | | DATE | MAY 19 2006 |
| APVD CW MASSIE | | | | | | | | | | PROJ | 326918 |

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NOTE:
FOR REINFORCING NOT SHOWN SEE **A**
20-S-201

SECTION J
3/8"=1'-0"
20-S-152
20-S-142



SECTION K
1 1/2"=1'-0"
20-S-131
20-S-203

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY MARK J. MERKLEIN STATE OF OREGON, P.E. NO. 58,357.

| | | | | | | | | | |
|------|--------------|-----|------|--|-----|-----|----|------|----------|
| DSGN | WW KOHLER | NO. | DATE | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | MLR | RAH | BY | APVD | REVISION |
| DR | HF JOCHIMSEN | | | | | | | | |
| CHK | MJ MERKLEIN | | | | | | | | |
| APVD | CW MASSIE | | | | | | | | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
STRUCTURAL SECTIONS

| | |
|-------|-------------|
| SHEET | 301 |
| DWG | 20-S-208 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

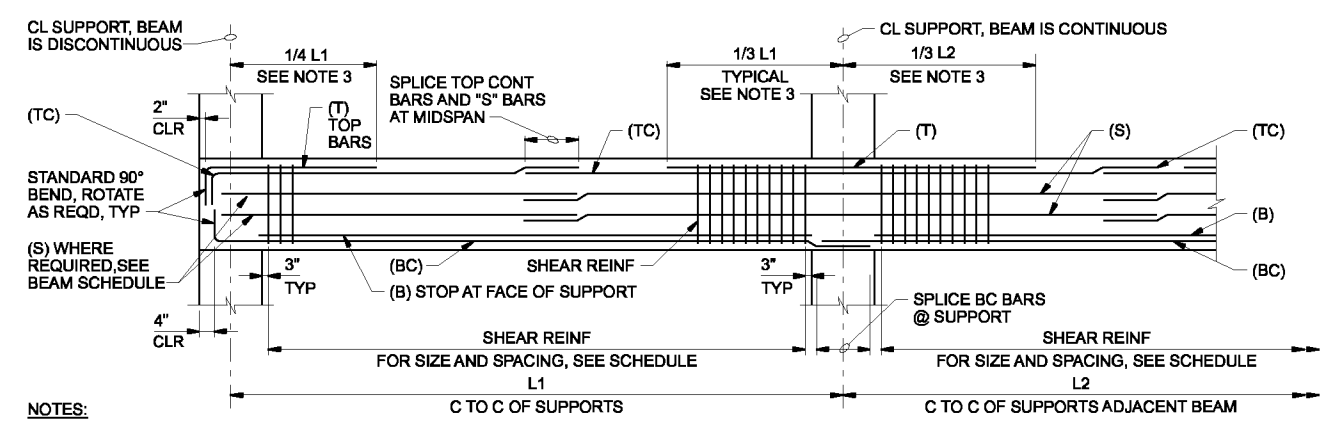
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| BEAM MARK | SIZE | | * TOP REINF AT LEFT SUPPORT | | BOTTOM REINF | | * TOP REINF AT RIGHT SUPPORT | | S BARS | SHEAR REINF | | | | REMARKS |
|-----------|------|-----|-----------------------------|-------|--------------|-------|------------------------------|-------|--------|--------------|------|--------|-------------------------------------|--|
| | W | D | T | TC | B | BC | T | TC | | NO. (NOTE 5) | SIZE | TYPE | SPACING FROM EACH SUPPORT TO CENTER | |
| B1 | 24 | 36 | 6-#9 | 6-#9 | 5-#9 | 5-#9 | - | 6-#9 | 2 | 2 | #4 | 4 LEGS | 12@6", MAX 12" | 2 LAYERS - 6 BARS |
| B2 | 24 | 36 | - | 6-#9 | 5-#9 | 5-#9 | 6-#9 | 6-#9 | 2 | 2 | #4 | 4 LEGS | 12@6", MAX 12" | 2 LAYERS - 6 BARS |
| B3 | 20 | 38 | - | 3-#9 | - | 3-#9 | - | 3-#9 | 2 | 1 | #4 | 2 LEGS | MAX 12" | - |
| B4 | 24 | 48 | - | 4-#9 | - | 4-#9 | 2-#9 | 4-#9 | 3 | 2 | #4 | 4 LEGS | 12@3", 12@6", MAX 12" | - |
| B5 | 24 | 48 | 2-#9 | 4-#9 | - | 4-#9 | 2-#9 | 4-#9 | 3 | 2 | #4 | 4 LEGS | 12@3", 12@6", MAX 12" | - |
| B6 | 24 | 48 | 2-#9 | 4-#9 | - | 4-#9 | - | 4-#9 | 3 | 2 | #4 | 4 LEGS | 12@3", 12@6", MAX 12" | - |
| B7 | 24 | 48 | - | 4-#10 | - | 4-#10 | 2-#10 | 4-#10 | 3 | 2 | #4 | 4 LEGS | MAX 12" | - |
| B8 | 24 | 48 | 2-#10 | 4-#10 | - | 4-#10 | - | 4-#10 | 3 | 2 | #4 | 4 LEGS | MAX 12" | - |
| B9 | 24 | 48 | - | 4-#9 | 2-#9 | 4-#9 | - | 4-#9 | 3 | 2 | #4 | 4 LEGS | MAX 12" | - |
| B10 | 24 | 48 | - | 4-#9 | - | 4-#9 | - | 4-#9 | 3 | 2 | #4 | 4 LEGS | MAX 12" | - |
| B11 | 24 | 48 | - | 4-#9 | - | 4-#9 | - | 4-#9 | 3 | 2 | #4 | 4 LEGS | MAX 12" | - |
| B12 | 24 | 36 | - | 4-#9 | - | 4-#9 | - | 4-#9 | - | 1 | #4 | 2 LEGS | MAX 12" | - |
| B13 | 24 | 36 | - | 4-#9 | - | 4-#9 | - | 4-#9 | - | 2 | #4 | 4 LEGS | 12@6", MAX 12" | - |
| B14 | 24 | 36 | - | 4-#9 | - | 4-#9 | - | 4-#9 | - | 2 | #4 | 4 LEGS | 12@6", MAX 12" | - |
| B15 | 24 | 36 | - | 4-#9 | - | 4-#9 | - | 4-#9 | - | 1 | #4 | 2 LEGS | MAX 12" | - |
| B16 | 24 | 48 | - | 6-#9 | - | 4-#9 | - | 6-#9 | - | 1 | #4 | 2 LEGS | MAX 12" | - |
| B17 | 24 | 36 | - | 4-#9 | - | 4-#9 | - | 4-#9 | - | 1 | #4 | 2 LEGS | MAX 12" | - |
| B18 | 24 | 36 | - | 4-#9 | - | 4-#9 | - | 4-#9 | - | 1 | #4 | 2 LEGS | MAX 12" | - |
| B19 | 24 | 36 | - | 4-#9 | - | 4-#9 | - | 4-#9 | - | 1 | #4 | 2 LEGS | MAX 12" | - |
| B20 | 24 | 36 | - | 4-#9 | - | 4-#9 | - | 4-#9 | - | 1 | #4 | 2 LEGS | MAX 12" | - |
| B21 | 12 | 18 | - | 3-#6 | - | 3-#6 | - | 3-#6 | - | 1 | #3 | 2 LEGS | MAX 6" | - |
| B22 | 12 | 18 | - | 2-#6 | - | 2-#6 | - | 2-#6 | - | 1 | #3 | 2 LEGS | MAX 6" | - |
| WB1 | 24 | 123 | - | 4-#9 | - | 4-#9 | - | 4-#9 | - | 1 | #6 | 2 LEGS | MAX 12" | SEE WALL-BEAM DETAIL |
| WB2 | 24 | 123 | - | 4-#9 | - | 4-#9 | - | 4-#9 | - | 1 | #6 | 2 LEGS | MAX 12" | SEE WALL-BEAM DETAIL EXTEND TOP AND BOTTOM REINFORCING OVER SOUTH COLUMN TO END OF WALL |
| WB3 | 24 | 123 | - | 4-#9 | - | 4-#9 | - | 4-#9 | - | 1 | #6 | 2 LEGS | MAX 12" | SEE WALL-BEAM DETAIL |
| WB4 | 24 | 123 | - | 4-#9 | - | 4-#9 | - | 4-#9 | - | 1 | #6 | 2 LEGS | MAX 12" | SEE WALL-BEAM DETAIL |
| WB5 | 18 | 132 | - | 2-#7 | - | 2-#8 | - | 2-#7 | - | 1 | #6 | 2 LEGS | MAX 12" | SEE WALL-BEAM DETAIL TOP AND BOTTOM BARS SHALL BE CONTINUOUS PAST GATE BLOCKOUTS |
| WB6 | 24 | 132 | - | 4-#9 | - | 4-#9 | - | 4-#9 | - | 1 | #6 | 2 LEGS | MAX 12" | SEE WALL-BEAM DETAIL TOP AND BOTTOM BARS SHALL BE CONTINUOUS PAST GATE BLOCKOUTS |

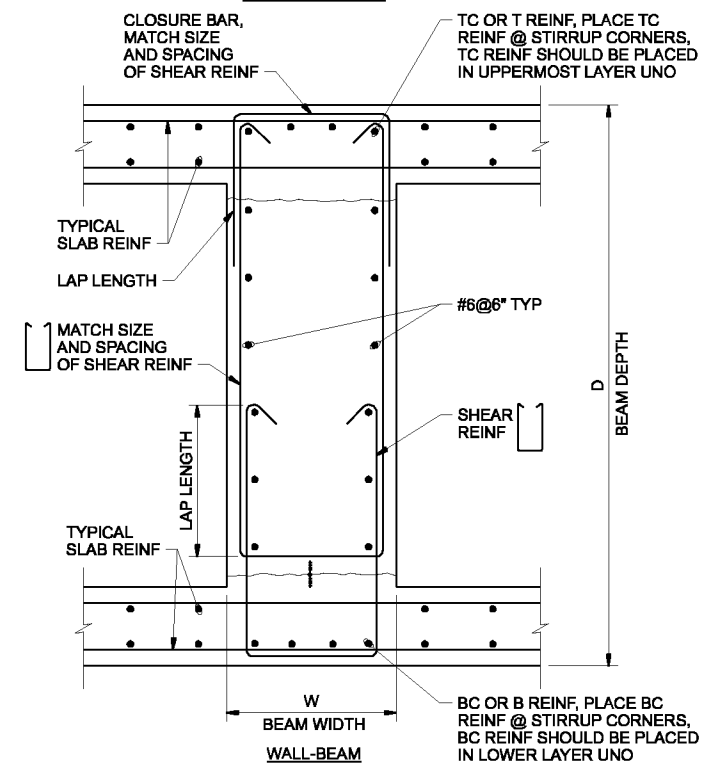
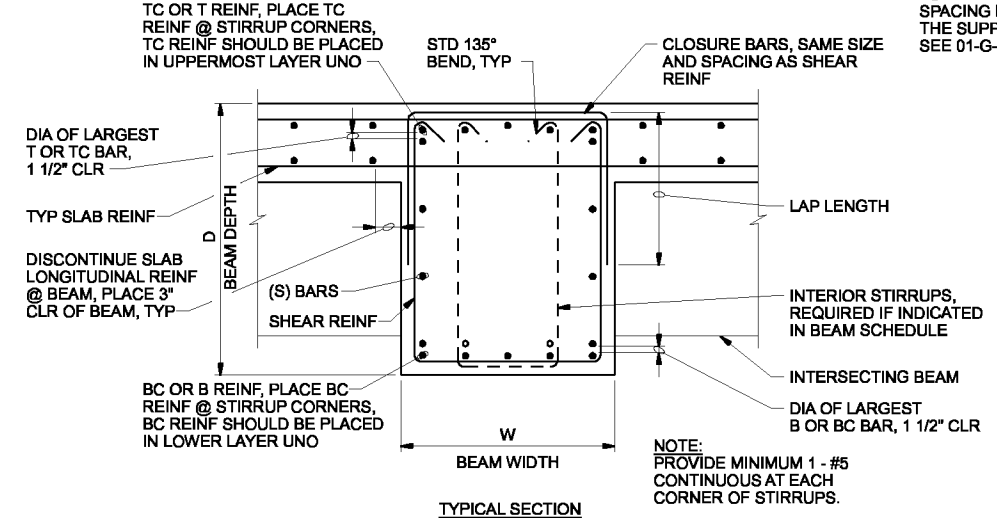
NOTES:

- * TOP REINFORCING MAY BE CALLED-OUT TWICE IN SCHEDULE. (I.E. "TOP REINFORCING AT RIGHT SUPPORT" OF BEAM THAT IS CONTINUOUS OVER THE RIGHT SUPPORT IS CALLED-OUT AS "TOP REINFORCING AT LEFT SUPPORT" OF ADJACENT BEAM.)
- LEFT SUPPORT IS DESIGNATED AS THE SUPPORT CLOSEST TO THE LEFT SIDE OR BOTTOM OF SHEET ON WHICH FRAMING PLAN IS DRAWN, UNLESS NOTED OTHERWISE ON PLAN.
- WHERE FLOOR SLOPES, DEPTH OF BEAM (D) SHOWN IS MINIMUM DEPTH. BOTTOM ELEVATION OF BEAM SHALL BE CONSTANT, UNLESS INDICATED OTHERWISE.
- WHERE SHEAR REINFORCING "TYPE" IS INDICATED AS "STIRRUP", PROVIDE SHEAR REINFORCING AND CLOSURES AS SHOWN IN DETAIL 3366. WHERE SHEAR REINFORCING "TYPE" IS INDICATED AS "CLOSED TIE", PROVIDE CLOSED TIES IN LIEU OF STIRRUPS AND CLOSURE BARS.
- "NO." INDICATES NUMBER OF STIRRUPS OR TIES PER SET.

BEAM REINFORCING AND SCHEDULE
NTS



- PLACE TOP (T & TC) AND BOTTOM (B & BC) BARS IN MULTIPLE ROWS ONLY WHERE INDICATED IN SCHEDULE.
- WHEN INDICATED IN BEAM SCHEDULE, SUBSTITUTE CLOSED TIES ([]) FOR STIRRUPS AND CLOSURE BARS SHOWN ([]).
- THE CUT-OFF DISTANCE FOR TOP BARS BASED ON L1 & L2 SHALL NOT BE LESS THAN THE TOP EMBEDMENT LENGTH FOR SPACING LESS THAN 6" OC + 1/2 THE SUPPORT WIDTH. SEE D1-G-10.



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| | | | | | | | |
|------|--------------|-----|------|----------|----|------|---|
| DSGN | WW KOHLER | NO. | DATE | REVISION | BY | APVD | VERIFY SCALE |
| DR | HF JOCHIMSEN | | | | | | BAR IS ONE INCH ON ORIGINAL DRAWING. |
| CHK | MJ MERKLEIN | | | | | | 0 1" |
| APVD | CW MASSIE | | | | | | IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |

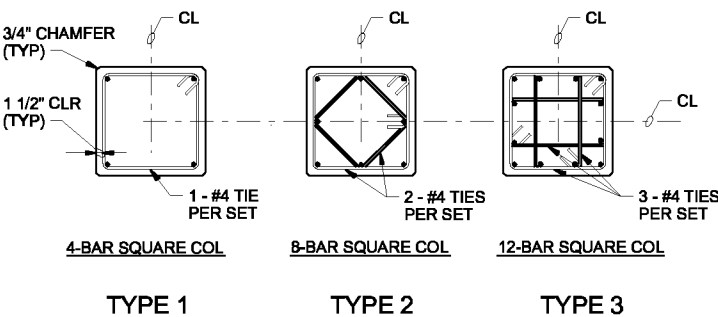
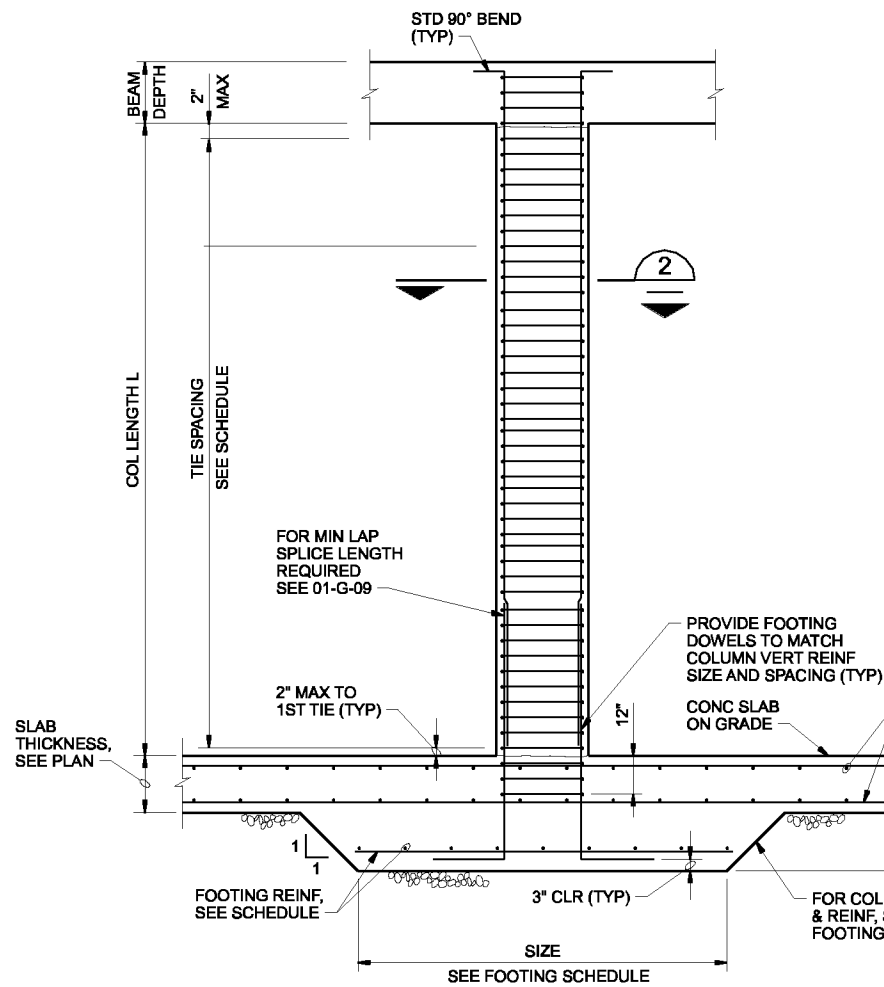


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
STRUCTURAL
DETAILS

| | |
|-------|-------------|
| SHEET | 302 |
| DWG | 20-S-401 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

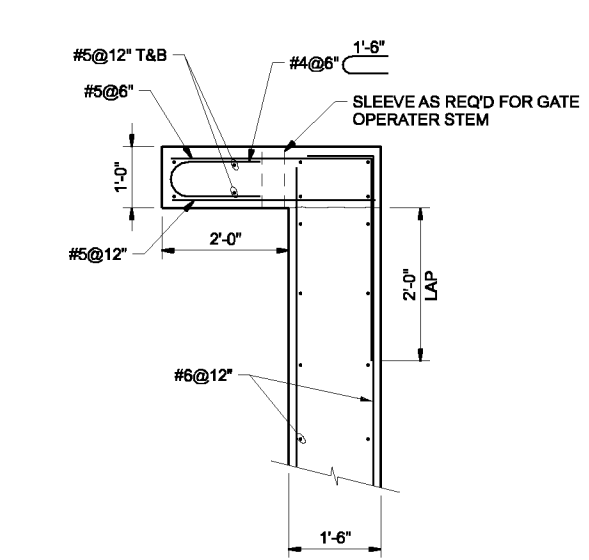
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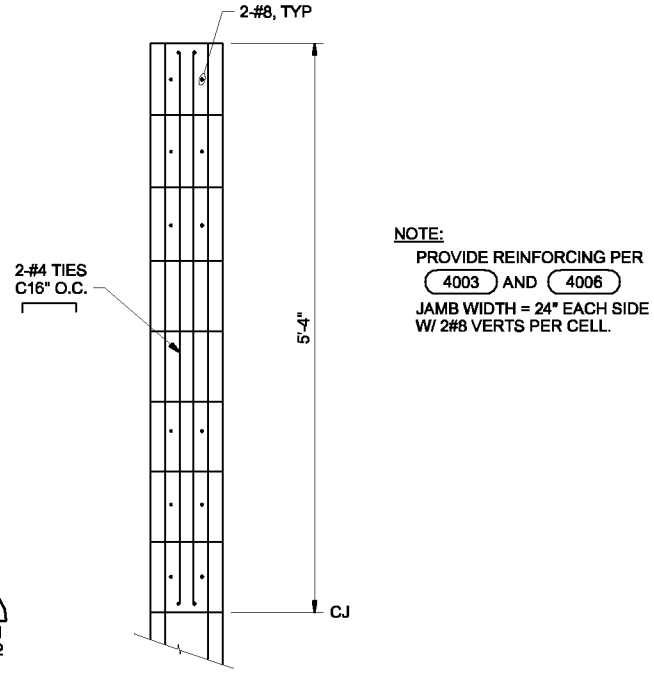
NOTES:

1. PROVIDE 3/4" CHAMFER AT ALL EXPOSED COLUMN EDGES.
2. FOR COLUMN SIZE AND VERTICAL REINFORCING, SEE CONC COL SCHEDULE.
3. FOR TIE SPACING, SEE CONCRETE COL SCHEDULE AND DETAIL 1 THIS SHEET.

TYPICAL COLUMN SECTIONS 2
NTS



HEADWORK AREA B-GATE CORBELS 4
NTS
20-S-201
20-S-152

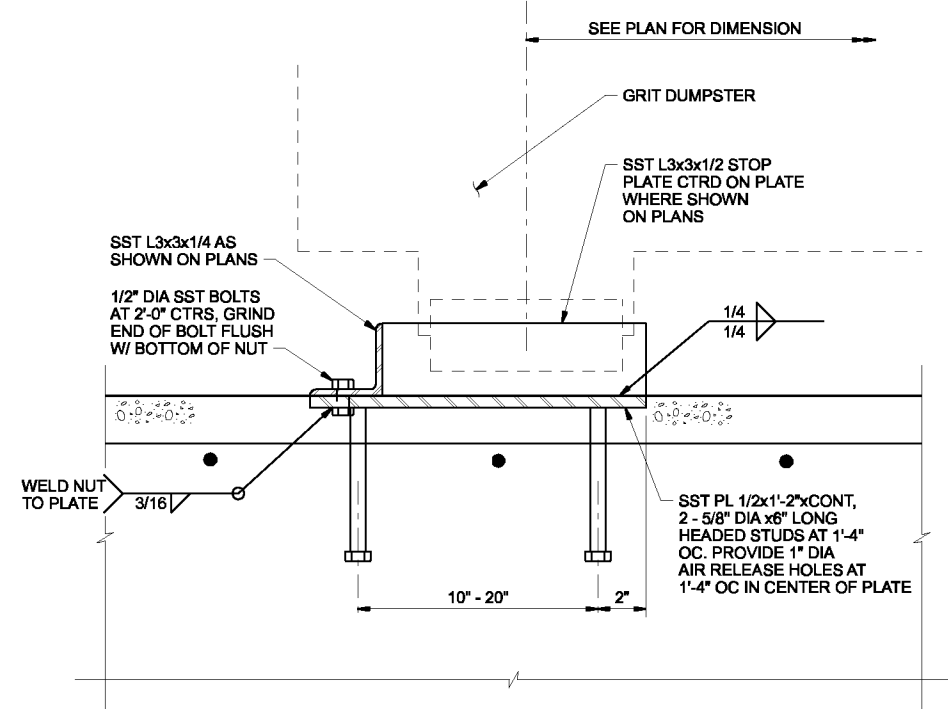


CMU REINF. DETAIL 5
NTS
20-S-151

| CONCRETE COLUMN SCHEDULE | | | | |
|--------------------------|---------|------------|-----------|------|
| COLUMN MARK | SIZE | VERT REINF | TIE REINF | TYPE |
| C1 | 20"x20" | 12 - #11 | #4@4" | 3 |
| C2 | 20"x20" | 8 - #7 | #4@4" | 2 |
| C3 | 18"x28" | 6 - #6 EF | #4@6" | 1 |
| C4 | 24"x24" | 8 - #8 | #4@6" | 2 |

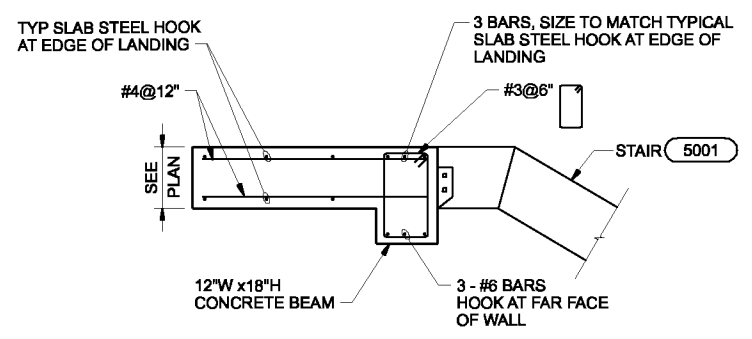
| FOOTING SCHEDULE | | | | |
|------------------|-----------|-----------|--------------|---|
| FOOTING MARK | SIZE | THICKNESS | BOTTOM REINF | COMMENTS |
| F1 | 14x14 | 36" | #9@12" | CENTERED ON COLUMN |
| F2 | 12x12 | 36" | #10@12" | CENTERED ON COLUMN |
| F3 | 14x11'-6" | 24" | #8@12" | SEE PLAN FOR LOCATION RELATIVE TO COLUMNS |
| F4 | 15x18" | 36" | #10@12" | SEE PLAN FOR LOCATION RELATIVE TO COLUMNS |
| F5 | 12x32' | 36" | #10@8" | SEE PLAN FOR LOCATION RELATIVE TO COLUMNS |

TYPICAL COLUMN ELEVATION 1
NTS
20-S-132
20-S-133

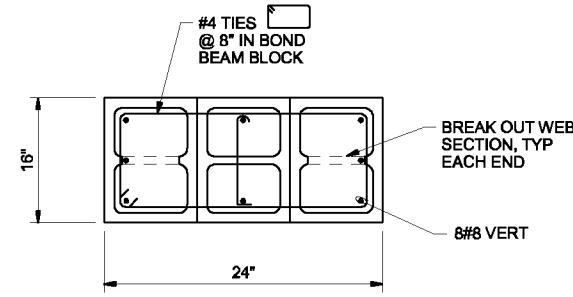


NOTE:
SEE PLAN FOR PLATE WIDTH AND ANGLE GUIDE AND STOP LOCATIONS.

GUIDE RAIL AT GRIT DUMPSTER 3
3"=1'-0"
20-S-131



CONCRETE STAIR LANDING A
NTS
20-S-151



CMU COLUMN DETAIL 6
NTS
20-S-152

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| | | | | | | | |
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| DSGN | WW KOHLER | NO. | DATE | REVISION | BY | APVD | VERIFY SCALE |
| DR | HF JOCHIMSEN | | | | | | |
| CHK | MJ MERKLEIN | | | | | | |
| APVD | CW MASSIE | | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | MLR | RAH | BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | | | |

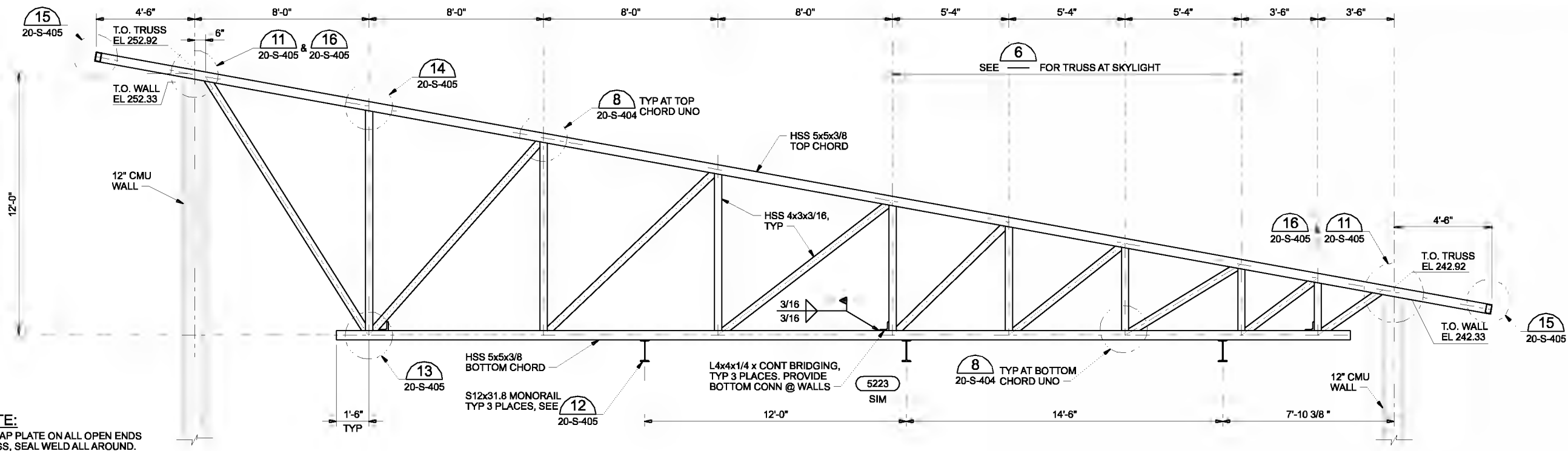


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LINN COUNTY, OREGON

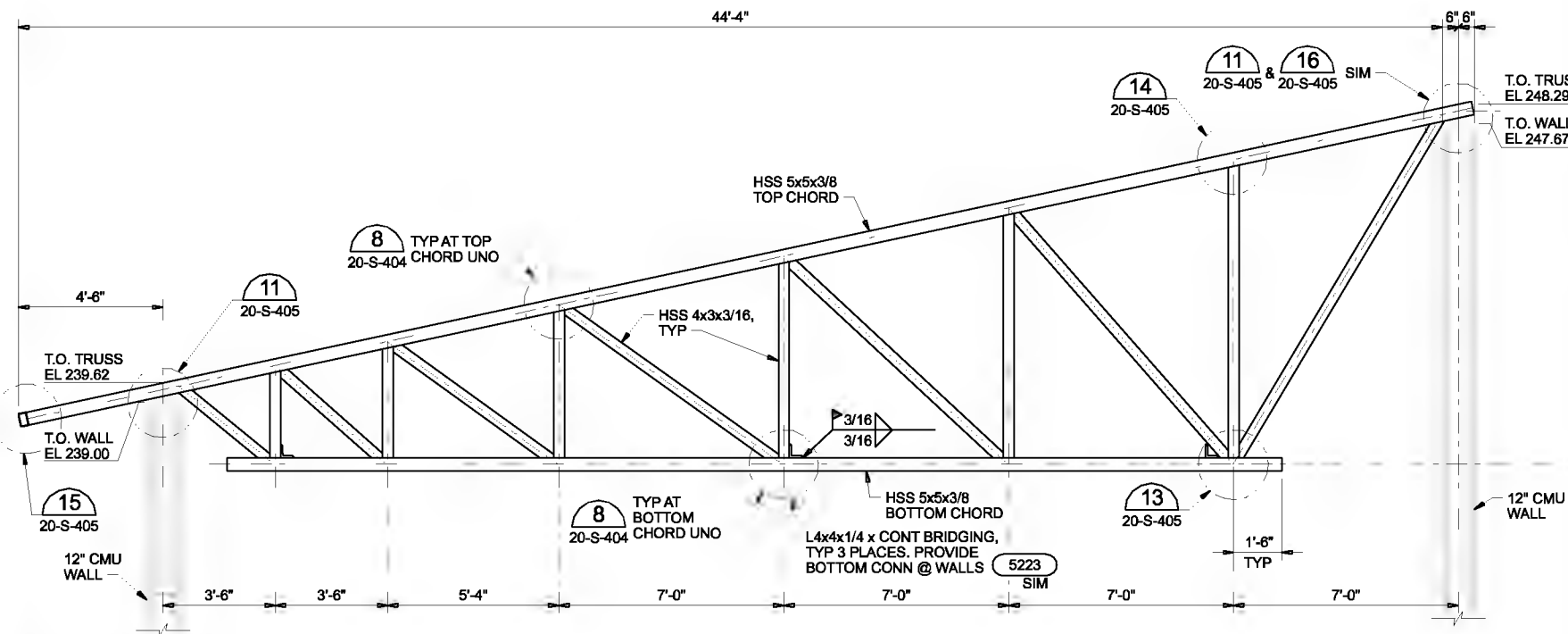
HEADWORKS
STRUCTURAL
DETAILS

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| SHEET | 303 |
| DWG | 20-S-402 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

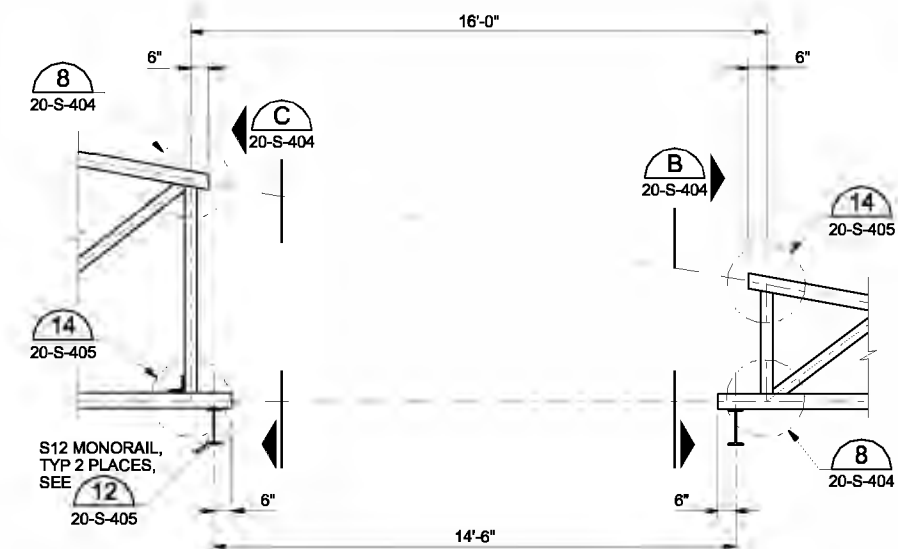
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ROOF TRUSS RT1 4
3/8"=1'-0" 20-S-161



ROOF TRUSS RT2 5
3/8"=1'-0" 20-S-161



ROOF TRUSS RT3 AT SKYLIGHT 6
3/8"=1'-0"

| | | | | | | | |
|------|--------------|---------|------|----------|----|------|--|
| DSGN | WW KOHLER | | | | | | |
| DR | HF JOCHIMSEN | | | | | | |
| CHK | MJ MERKLEIN | 01/2010 | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | |

VERIFY SCALE
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0 1"
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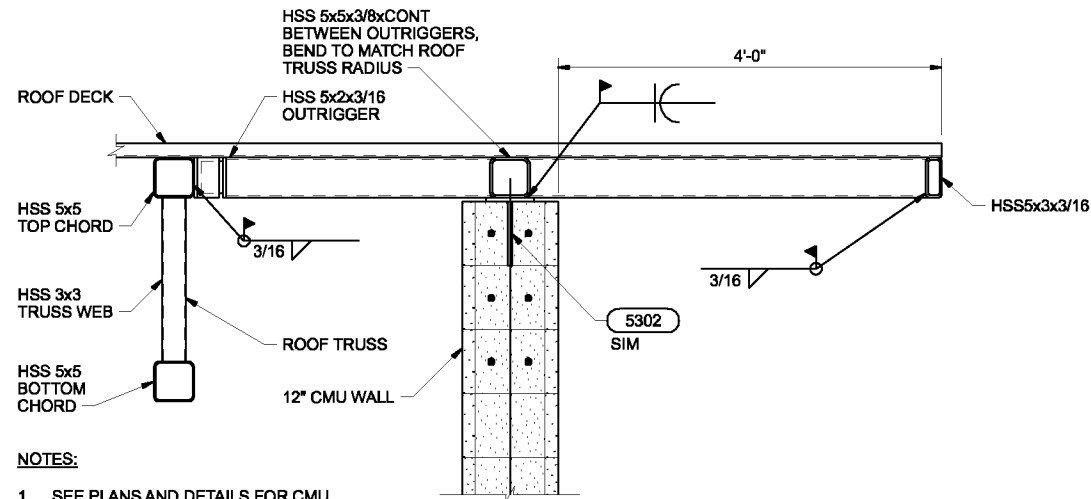


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LINN COUNTY, OREGON

HEADWORKS
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| SHEET | 304 |
| DWG | 20-S-403 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

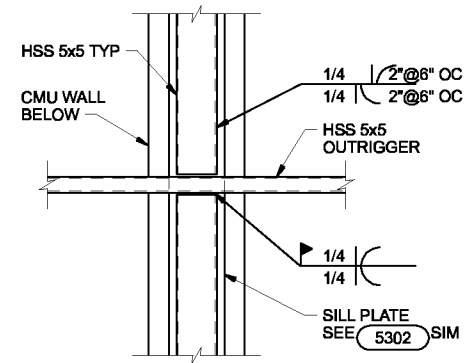
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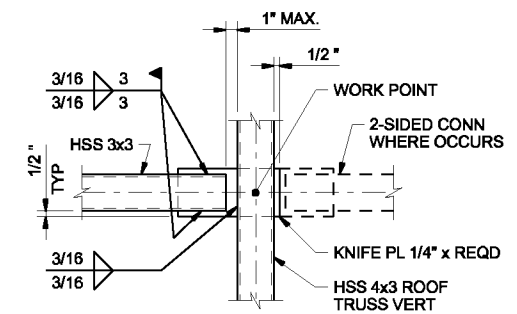
NOTES:

1. SEE PLANS AND DETAILS FOR CMU REINFORCING.
2. TOP OF WALL VARIES, SAWCUT CMU TO MATCH RADIUS OF ROOF, TYPICAL EAST AND WEST WALLS. SEE DETAIL 4041 SIMILAR.

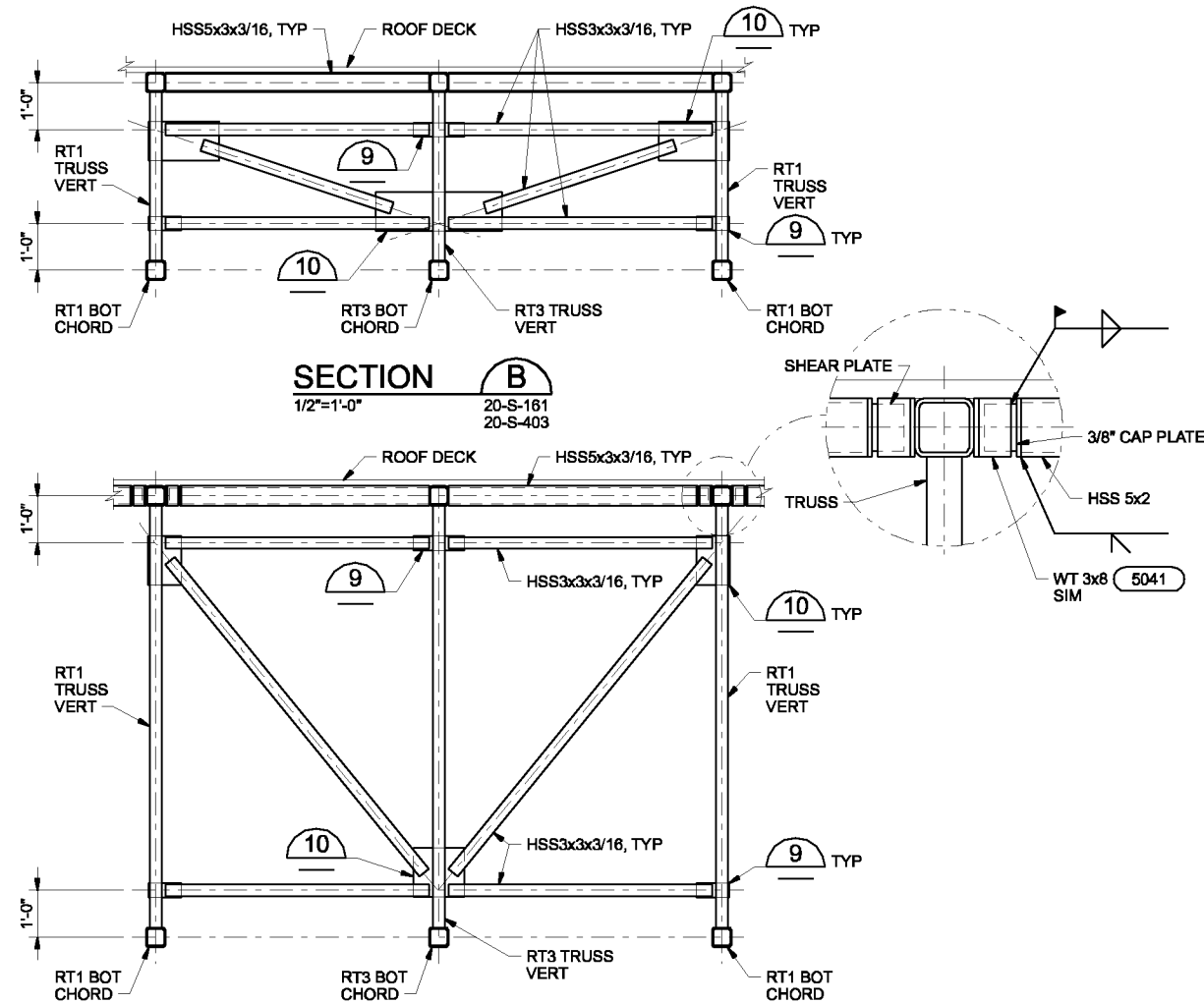
SECTION A
1"=1'-0" 20-S-161



DETAIL 7
1"=1'-0" 20-S-161

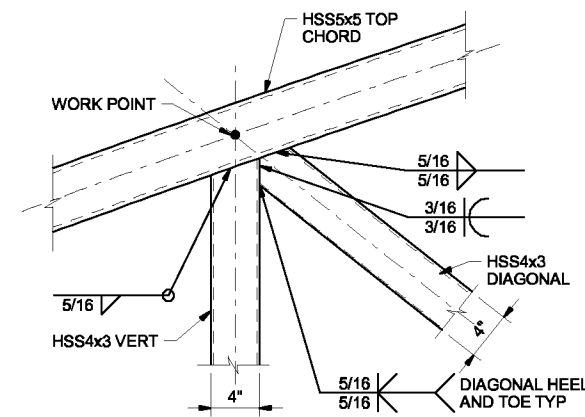


TRANSFOR TRUSS CONNECTION 9
1 1/2"=1'-0"

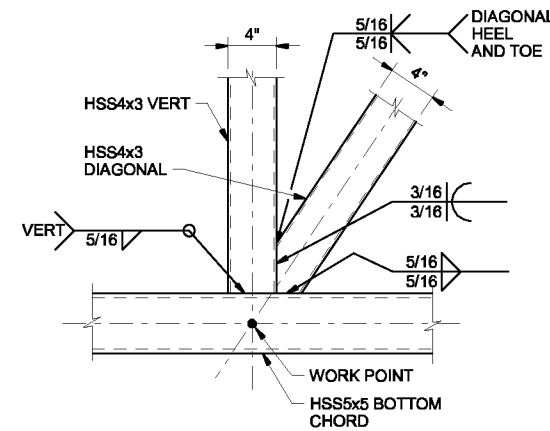


SECTION B
1/2"=1'-0" 20-S-161 20-S-403

SECTION C
1/2"=1'-0" 20-S-161 20-S-403

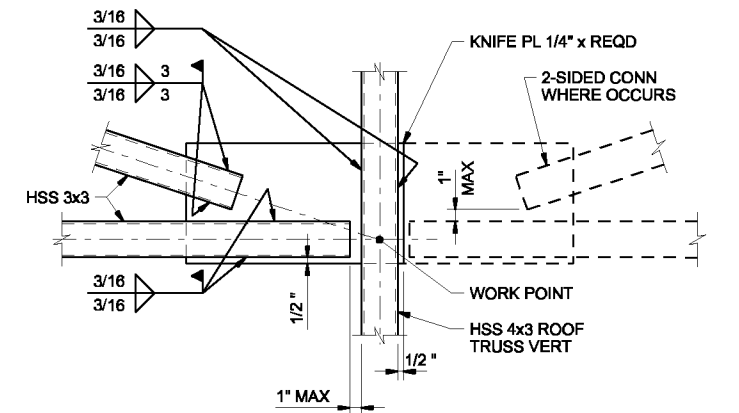


TOP CHORD CONDITION



BOTTOM CHORD CONDITION

TYPICAL TOP CHORD TRUSS CONNECTION 8
1 1/2"=1'-0" 20-S-403



TRANSFOR TRUSS CONNECTION 10
1 1/2"=1'-0"

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| DSGN | WW KOHLER | NO. | DATE | REVISION | BY | APVD |
| DR | MR DANIELSON | | | | | |
| CHK | MJ MERKLEIN | | | | | |
| APVD | CW MASSIE | | | | | |
| | 05/06 | | | | MLR | RAH |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

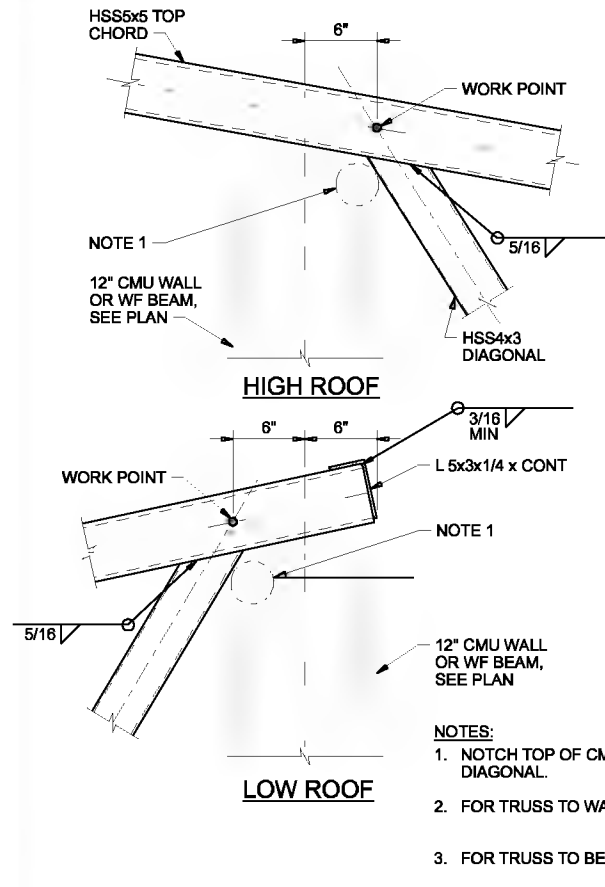


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LINN COUNTY, OREGON

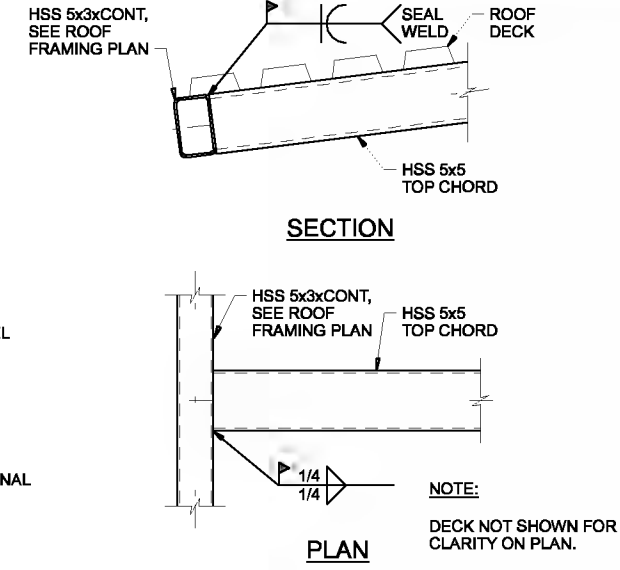
HEADWORKS
STRUCTURAL
SECTIONS AND DETAILS

| | |
|-------|-------------|
| SHEET | 305 |
| DWG | 20-S-404 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

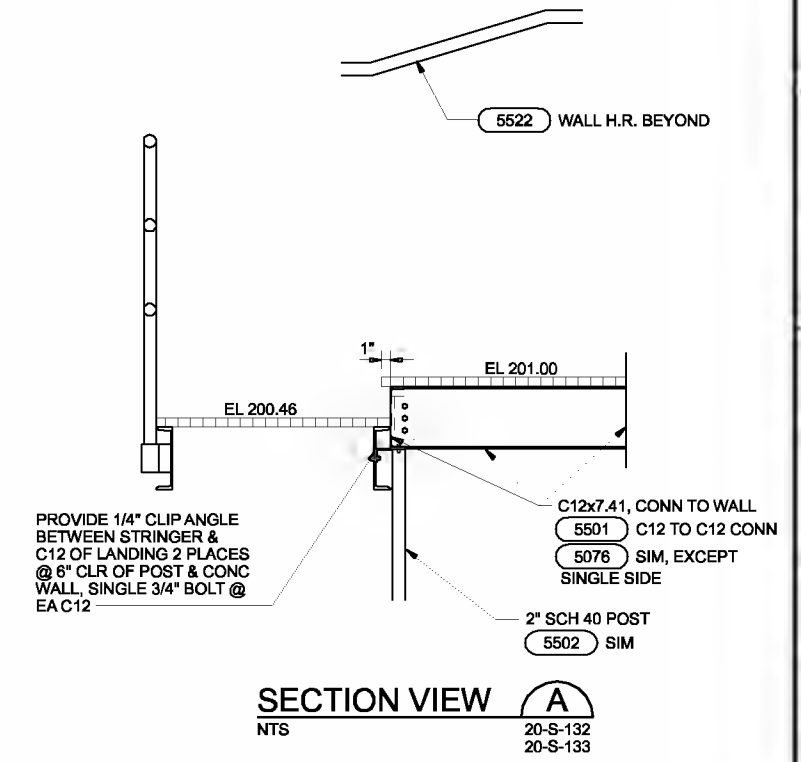
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TRUSS CONNECTION 13
1 1/2"=1'-0" 20-S-403

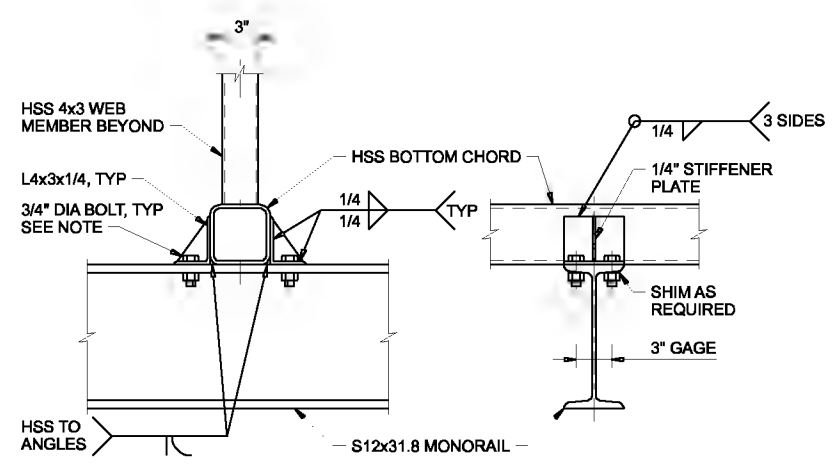


CONNECTION 15
1 1/2"=1'-0" 20-S-161
20-S-201
20-S-403

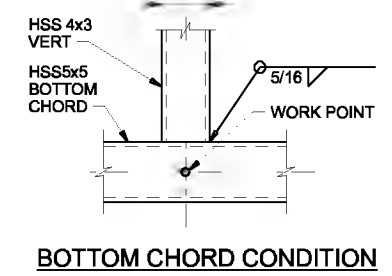
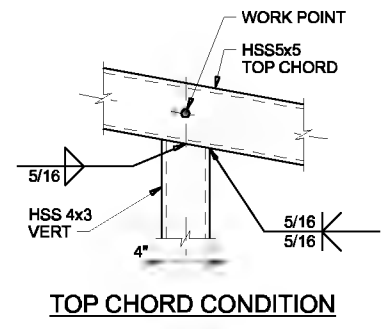


SECTION VIEW A
20-S-132
20-S-133

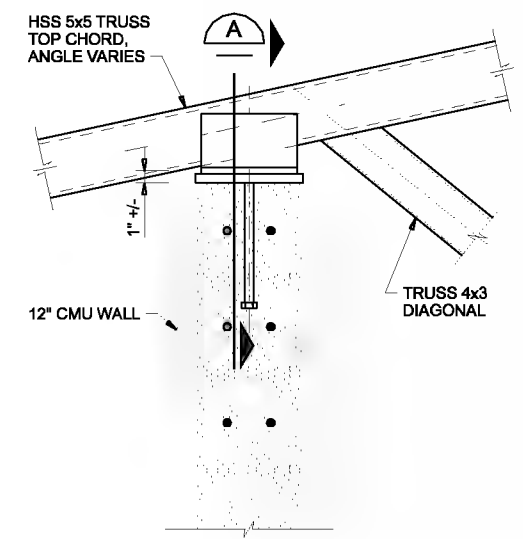
TRUSS CONNECTION 11
1 1/2"=1'-0" 20-S-403



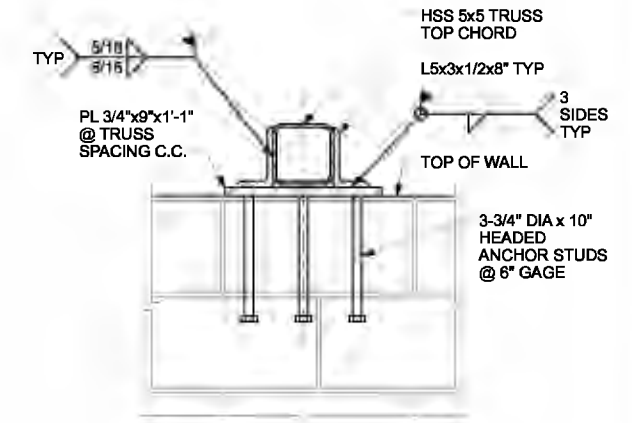
MONORAIL CONNECTION 12
1 1/2"=1'-0" 20-S-403



TRUSS CONNECTION 14
1 1/2"=1'-0" 20-S-403



TRUSS BEARING CONNECTION 16
1 1/2"=1'-0" 20-S-181
20-S-201



SECTION A
1 1/2"=1'-0"

| | | | | | | | |
|---|--------------|-----|------|----------|----|------|---|
| DSGN | WW KOHLER | NO. | DATE | REVISION | BY | APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | HF JOCHIMSEN | | | | | | |
| CHK | MJ MERKLEIN | | | | | | |
| APVD | CW MASSIE | | | | | | |
| | | | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | MLR | RAH | | | | |

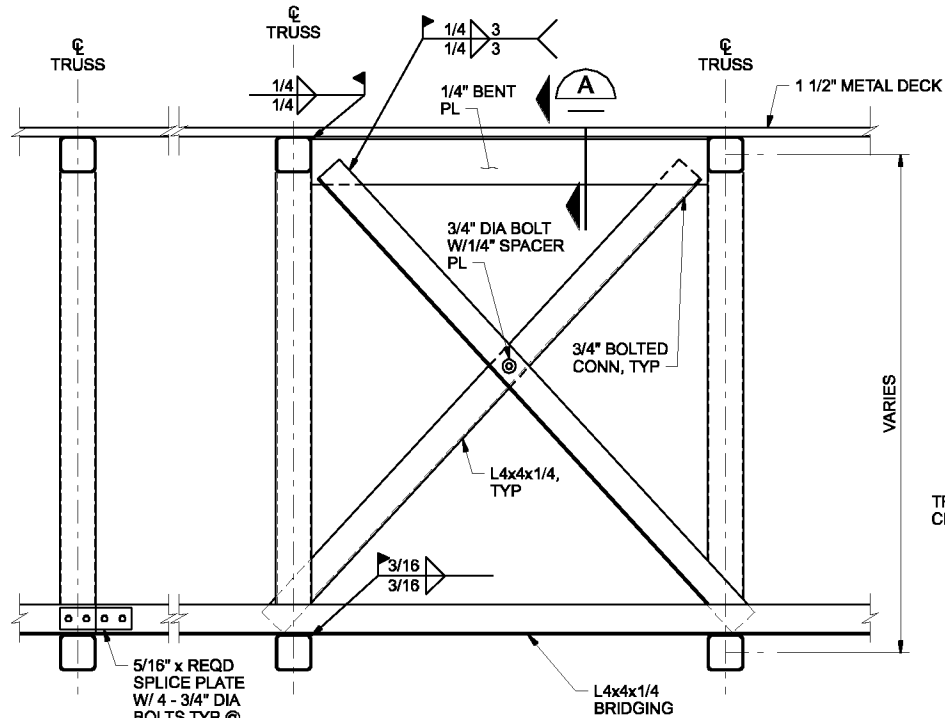


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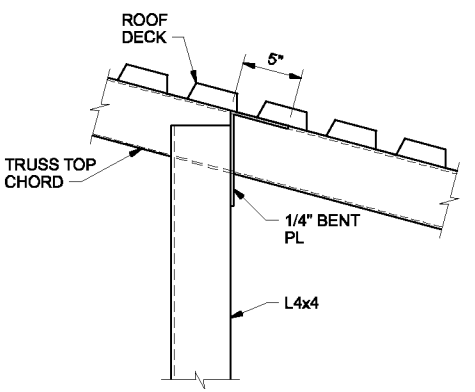
HEADWORKS
STRUCTURAL
DETAILS

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| SHEET | 306 |
| DWG | 20-S-405 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

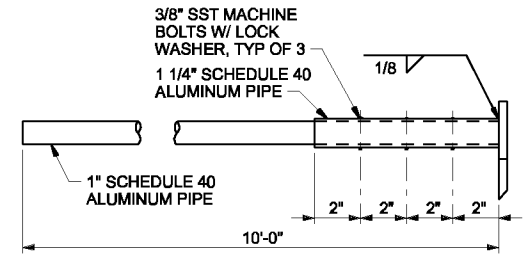
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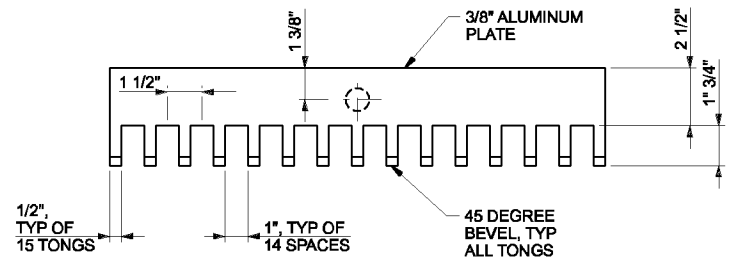
DETAIL 18
3/4"=1'-0" 20-S-161



SECTION A
1 1/2"=1'-0"



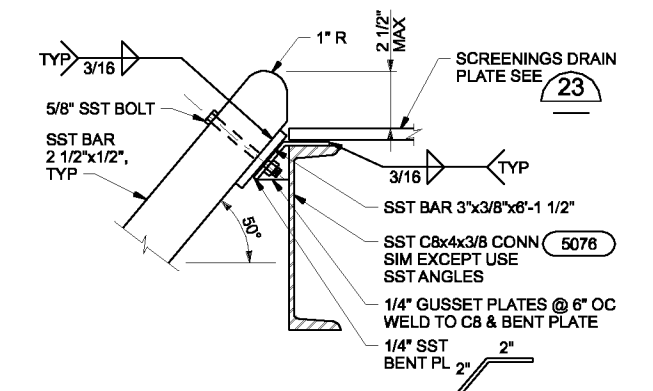
SIDE VIEW



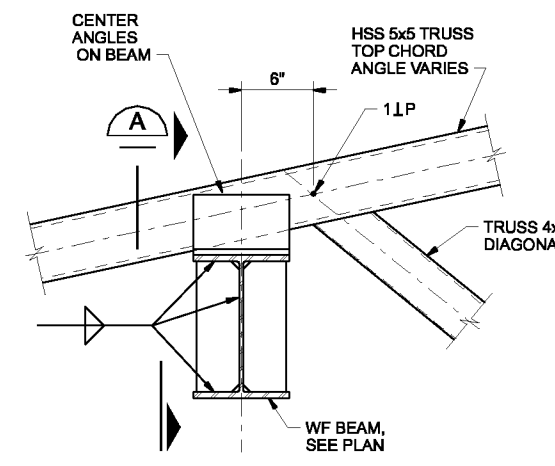
END VIEW

- NOTES:**
1. TWO RAKES REQUIRED.
2. GRIND ALL EDGES SMOOTH EXCEPT WHERE SHOWN.

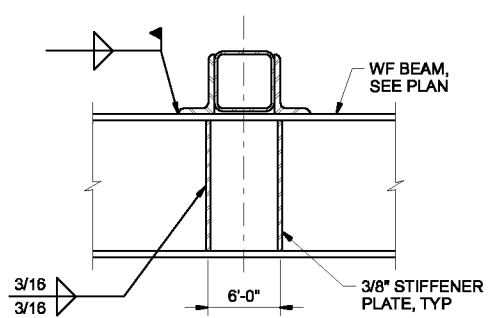
SCREEN RAKE DETAIL 20
3"=1'-0"



BAR SCREEN SUPPORT DETAIL 22
3"=1'-0" 20-S-142

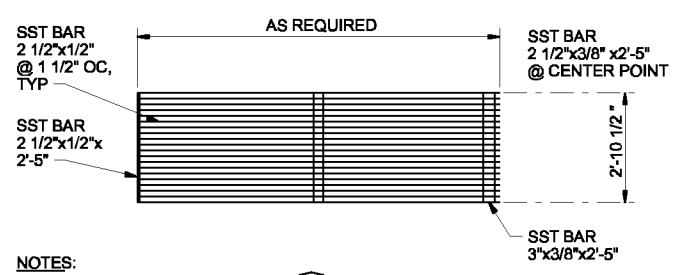


TOP CHORD BEARING 19
1 1/2"=1'-0" 20-S-405



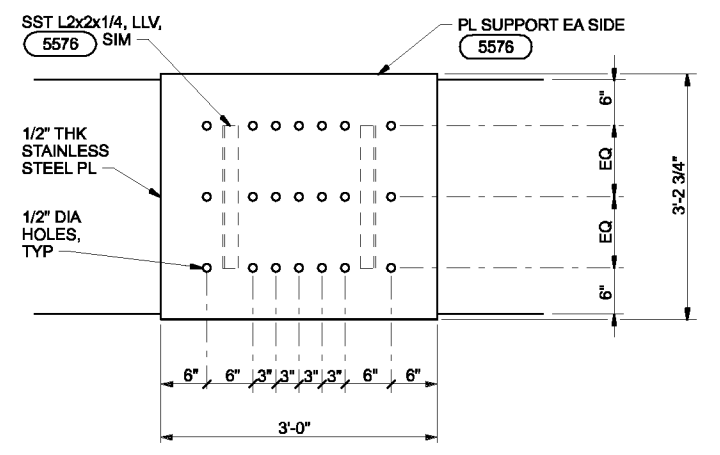
SECTION A
1 1/2"=1'-0"

NOTE:
FOR INFORMATION NOT SHOWN SEE 16 20-S-405



BAR SCREEN DETAIL 21
1/2"=1'-0" 20-S-142 20-S-143 20-S-152 20-S-204

- NOTES:**
1. FOR SCREEN SUPPORTS, SEE 22
2. FOR SCREEN RAKE, SEE 20



SCREENINGS DRAIN PLATE 23
1"=1'-0" 20-S-152

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| DSGN | MJ MERKLEIN | | | | |
| DR | HF JOCHIMSEN | | | | |
| CHK | SM FREY | 01/2010 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

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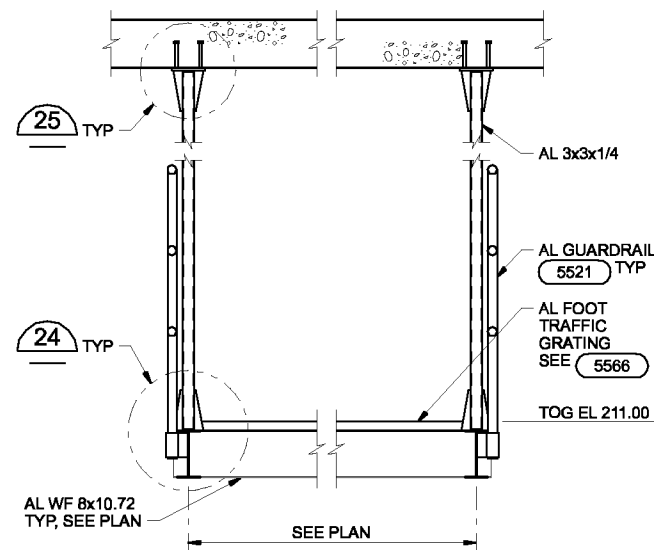


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

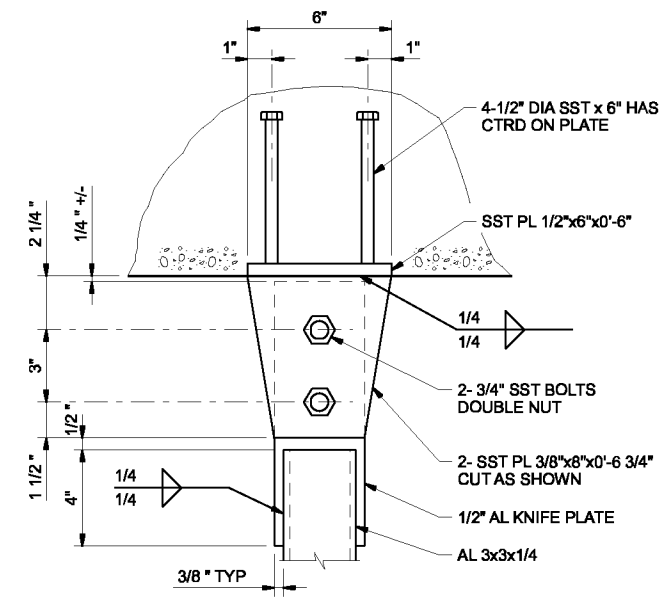
HEADWORKS
STRUCTURAL
DETAILS

| | |
|-------|-------------|
| SHEET | 307 |
| DWG | 20-S-406 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

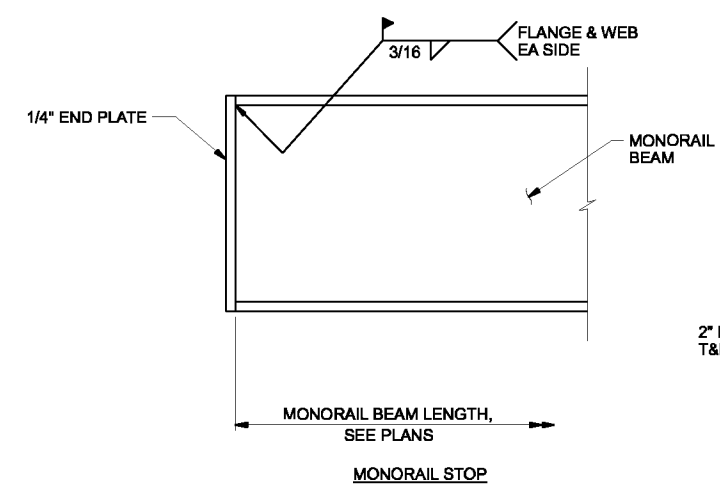
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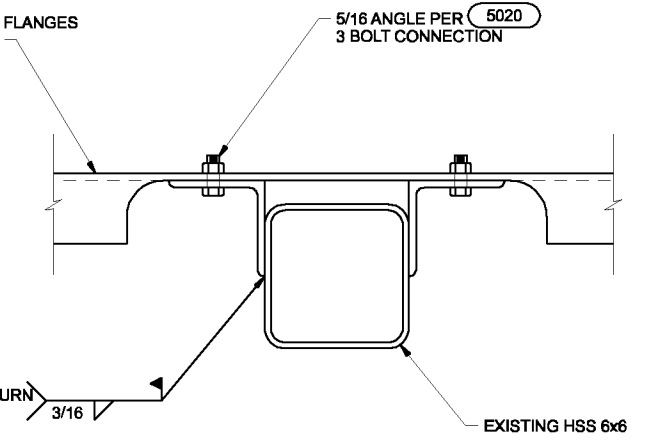
PLATFORM FRAMING (A) 20-S-141
3/4"=1'-0"



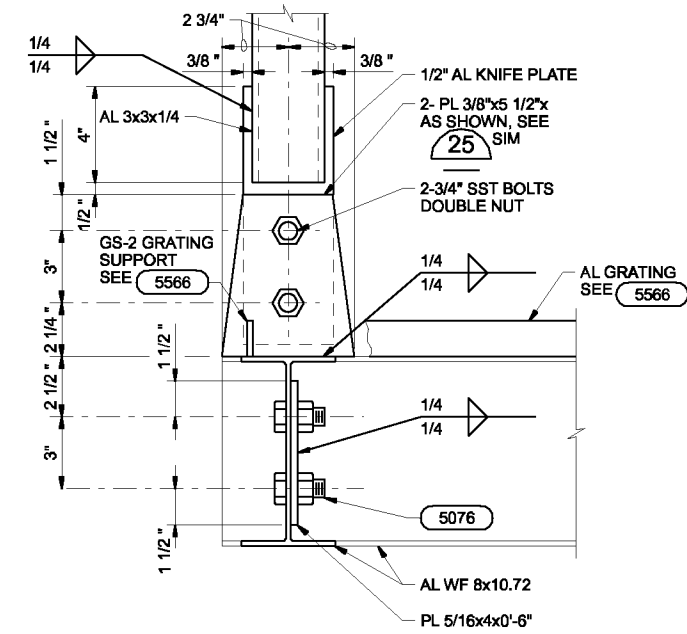
HANGER CONNECTION (25) 20-S-141
3"=1'-0"



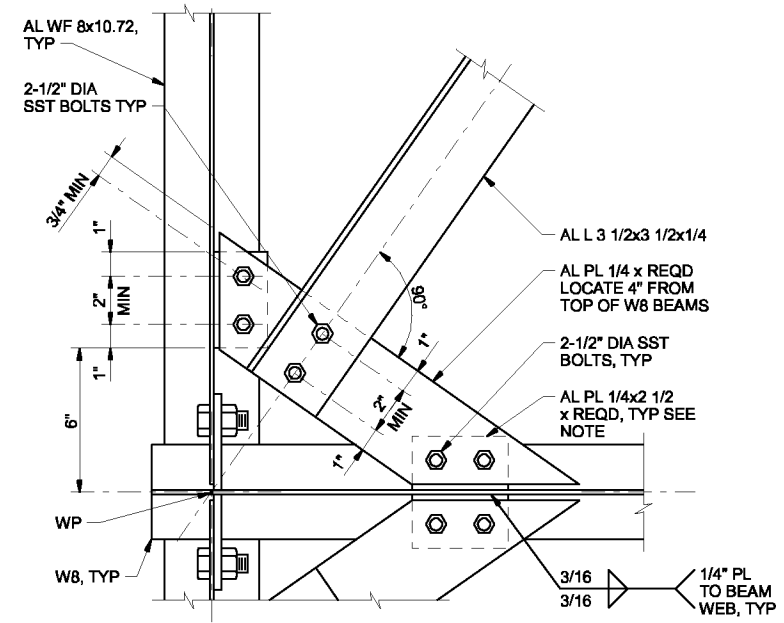
MONORAIL DETAIL (27) 20-S-161 20-S-203
NTS



HSS CONNECTION (29) 20-S-161
NTS

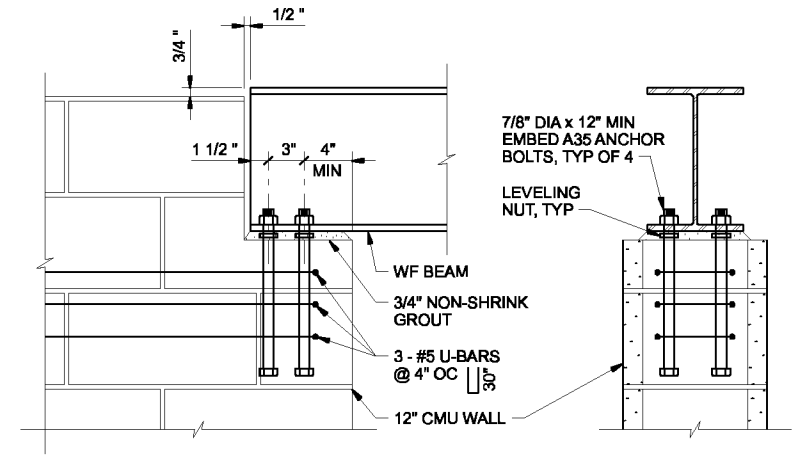


BEAM CONNECTION (24) 20-S-141
3"=1'-0"



NOTE:
AT BRACING CONNECTION TO CONCRETE WALL PROVIDE GS-3 (5566) ANGLE CONNECTION SIMILAR.

BRACING PLAN (26) 20-S-141
3"=1'-0"



BEAM TO CMU CONNECTION (28) 20-S-161
1 1/2"=1'-0"

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|------|--------------|---------|------|----------|----|------|--|
| DSGN | MJ MERKLEIN | | | | | | |
| DR | HF JOCHIMSEN | | | | | | |
| CHK | SM FREY | 01/2010 | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | |

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0 1"
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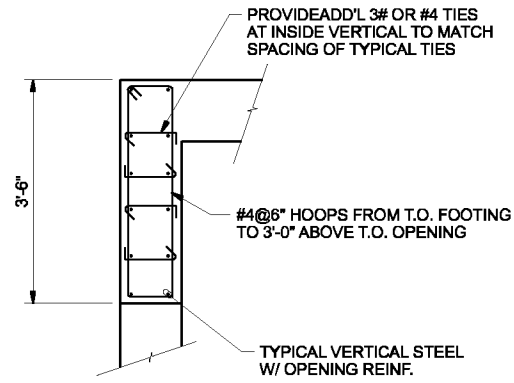


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

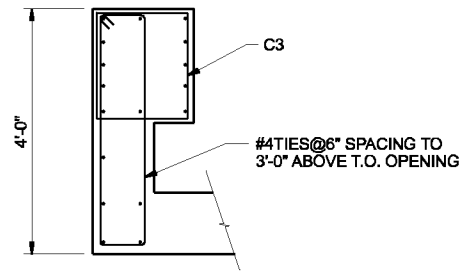
HEADWORKS
STRUCTURAL SECTION AND DETAILS

| | |
|-------|-------------|
| SHEET | 308 |
| DWG | 20-S-407 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

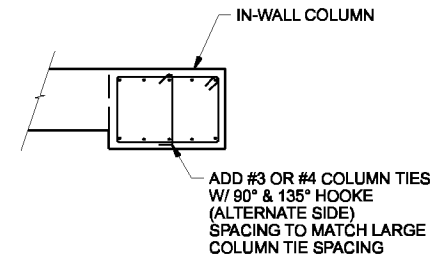
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WALL PIER 1
NTS 20-S-131



WALL PIER 2
NTS 20-S-131



COLUMN TIE DETAIL 3
NTS 20-S-131

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|------|--------------|-----|------|--|-----|-----|----|------|----------|
| DSGN | WW KOHLER | NO. | DATE | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | MLR | RAH | BY | APVD | REVISION |
| DR | HF JOCHIMSEN | | | | | | | | |
| CHK | MJ MERKLEIN | | | | | | | | |
| APVD | CW MASSIE | | | | | | | | |

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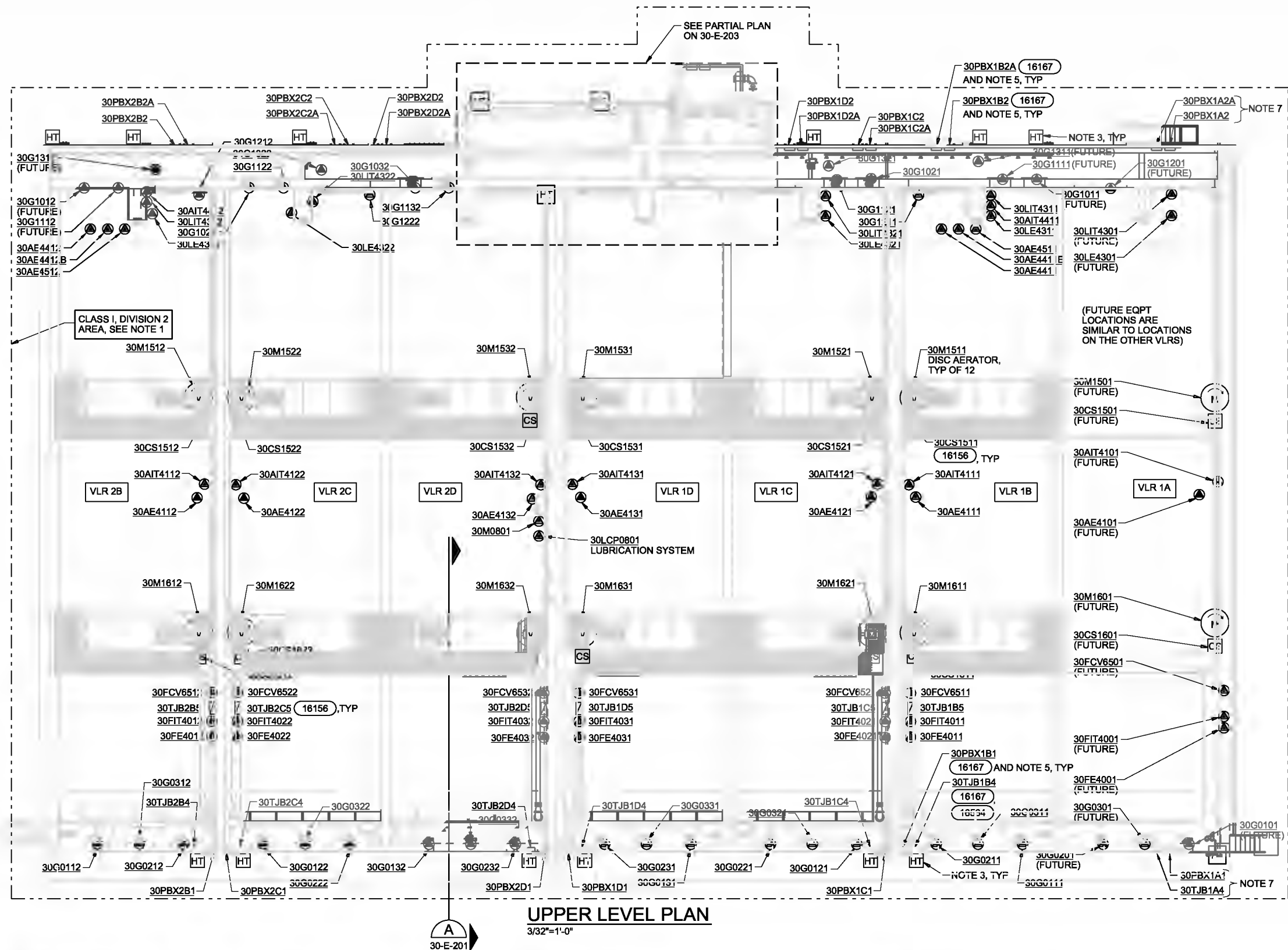
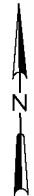


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

HEADWORKS
STRUCTURAL
DETAILS

| | |
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| SHEET | 309 |
| DWG | 20-S-408 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:
1. THE VERTICAL LOOP REACTORS ARE A CLASS I, DIVISION 2, GROUP D AREA WITHIN THE ENVELOPE SHOWN AND AS DESCRIBED ON 91-E-532. THE ENVELOPE SHALL BE RATED FOR USE IN THIS AREA CLASSIFICATION AND SHALL CONFORM TO THE SPECIFICATIONS AND THE NATIONAL ELECTRIC CODE.
 2. FOR PLAN OF VLR ELECTRICAL ENCLOSURE, SEE 30-E-202.
 3. HEAT TRACING THERMOSTAT & CONNECTION POINT. THERE IS A TOTAL OF 6 PIPES AT EACH END OF THE BASIN THAT REQUIRES HEAT TRACING. REFER TO SPECIFICATION 15085 AND 16055 FOR ADDITIONAL INFORMATION.
 4. MOTOR RATED SWITCHES ARE REQUIRED FOR ALL GATES AT THE VERTICAL LOOP REACTORS. INSTALL IN ACCORDANCE TO 16500.
 5. CONTRACTOR TO SIZE PULLBOX. SIZE IN ACCORDANCE WITH THE NEC AND SPECIFICATIONS FOR THE CIRCUITS ROUTED THROUGH IT AND FOR THE TJBS LOCATED WITHIN IT.
 6. CONTRACTOR TO SIZE PULLBOX. SIZE IN ACCORDANCE WITH THE NEC AND SPECIFICATIONS.
 7. INSTALL PULLBOXES AND TJBS THE SAME SIZE AS OTHER SIMILAR BOXES, TERMINAL STRIPS NOT TO BE INSTALLED UNDER THIS CONTRACT.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KANDIL MAESTRI, STATE OF OREGON, P.E. NO. 53785PE

| | | | | | |
|------|------------|----------|------|----------|----|
| DSGN | KI MAESTRI | | | | |
| DR | G. LOVE | | | | |
| CHK | JB MAURIS | 01/23/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

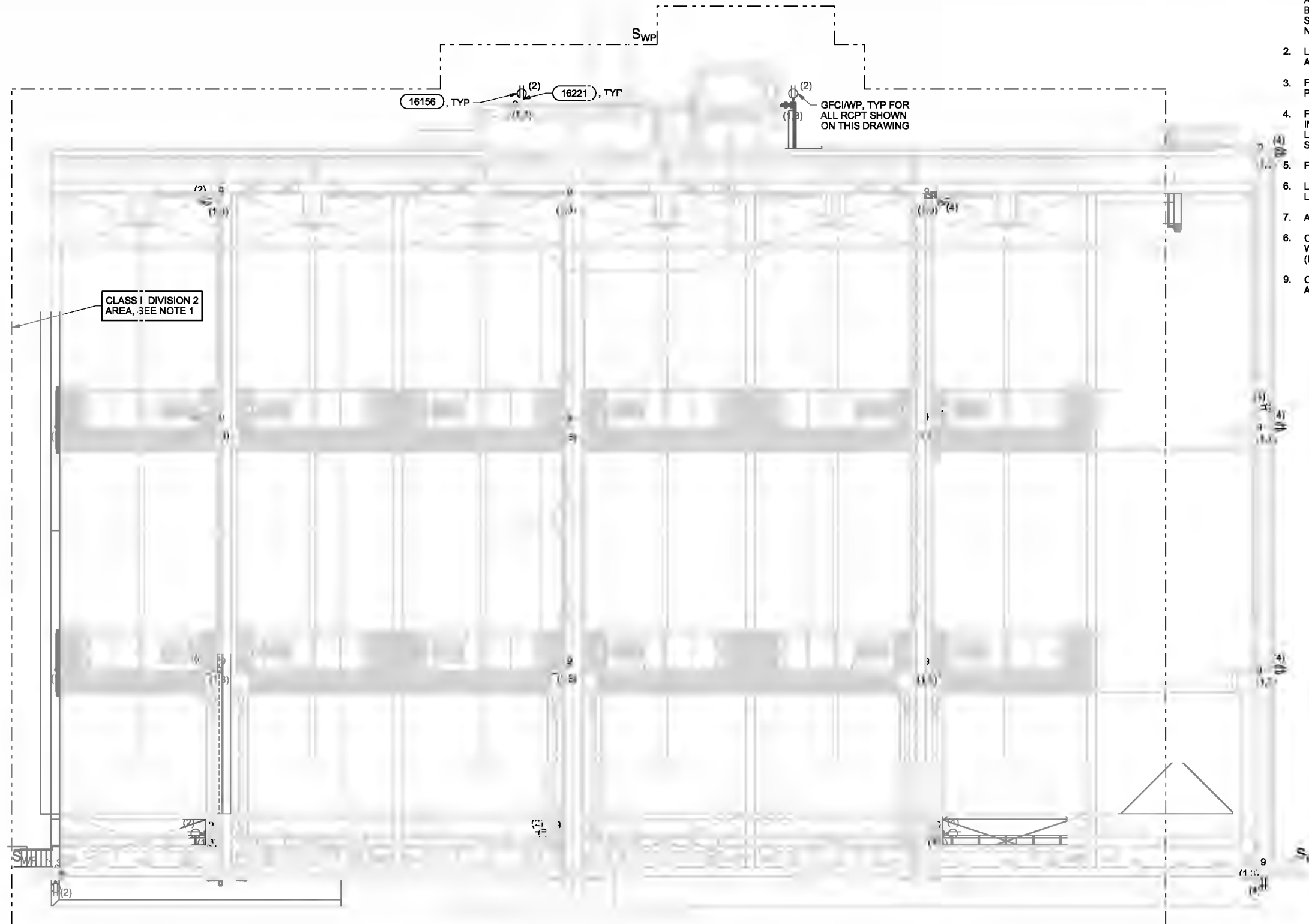
VERTICAL LOOP REACTORS
ELECTRICAL
OVERALL PROCESS PLAN

| | |
|-------|-------------|
| SHEET | 310 |
| DWG | 30-E-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOTES:

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2. LIGHTS AND RECEPTACLES AT THE VERTICAL LOOP REACTORS ARE FROM PANEL 30LP01.
3. FOR GENERAL NOTES LIGHTING SYSTEM AND GENERAL NOTES FOR POWER AND SIGNAL SYSTEMS, SEE 01-G-25.
4. FOR LIGHTS, RECEPTACLES, AND LIGHTING CONTROLS, FURNISH, AND INSTALL NO. 8 AWG WIRE WITH NO. 8 AWG GROUND IN 3/4" CONDUIT. LIGHTING AND RECEPTACLE CIRCUITS MAY BE COMBINED IN A SINGLE CONDUIT AT THE BASIN.
5. FOR LUMINAIRE SCHEDULE AND NOTES, SEE DWG 91-E-531.
6. LIGHTING CONTACTOR AND PANELBOARD 30LP01 FOR VLR LIGHTS IN VLR ELECTRICAL ENCLOSURE, SEE 30-E-202.
7. ALL LIGHTS ON THIS DRAWING ARE 208 VOLT.
8. CONDUITS ROUTED ALONG THE EAST EXTERIOR WALL AND WEST EXTERIOR WALL SHALL BE ROUTED ON THE OUTSIDE (NON-WATER HOLDING) SIDE OF THE BASIN.
9. COORDINATE EQUIPMENT LOCATIONS WITH OTHER TRADES TO AVOID INTERFERENCES.



CLASS I DIVISION 2 AREA, SEE NOTE 1

UPPER LEVEL PLAN

3/32"=1'-0"

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|------|------------|----------|------|----------|----|
| DSGN | KI MAESTRI | | | | |
| DR | GILLOVE | | | | |
| CHK | JB MAJRAIS | 01/23/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

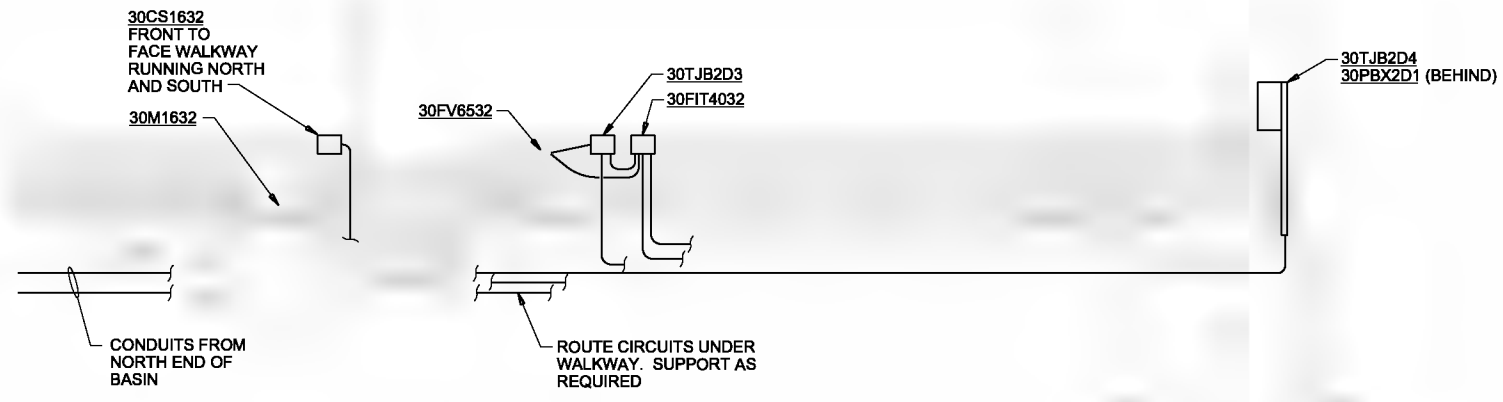
VERIFY SCALE
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CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

VERTICAL LOOP REACTORS
 ELECTRICAL
 OVERALL FACILITY PLAN

| | |
|-------|-------------|
| SHEET | 311 |
| DWG | 30-E-145 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |



NOTES:

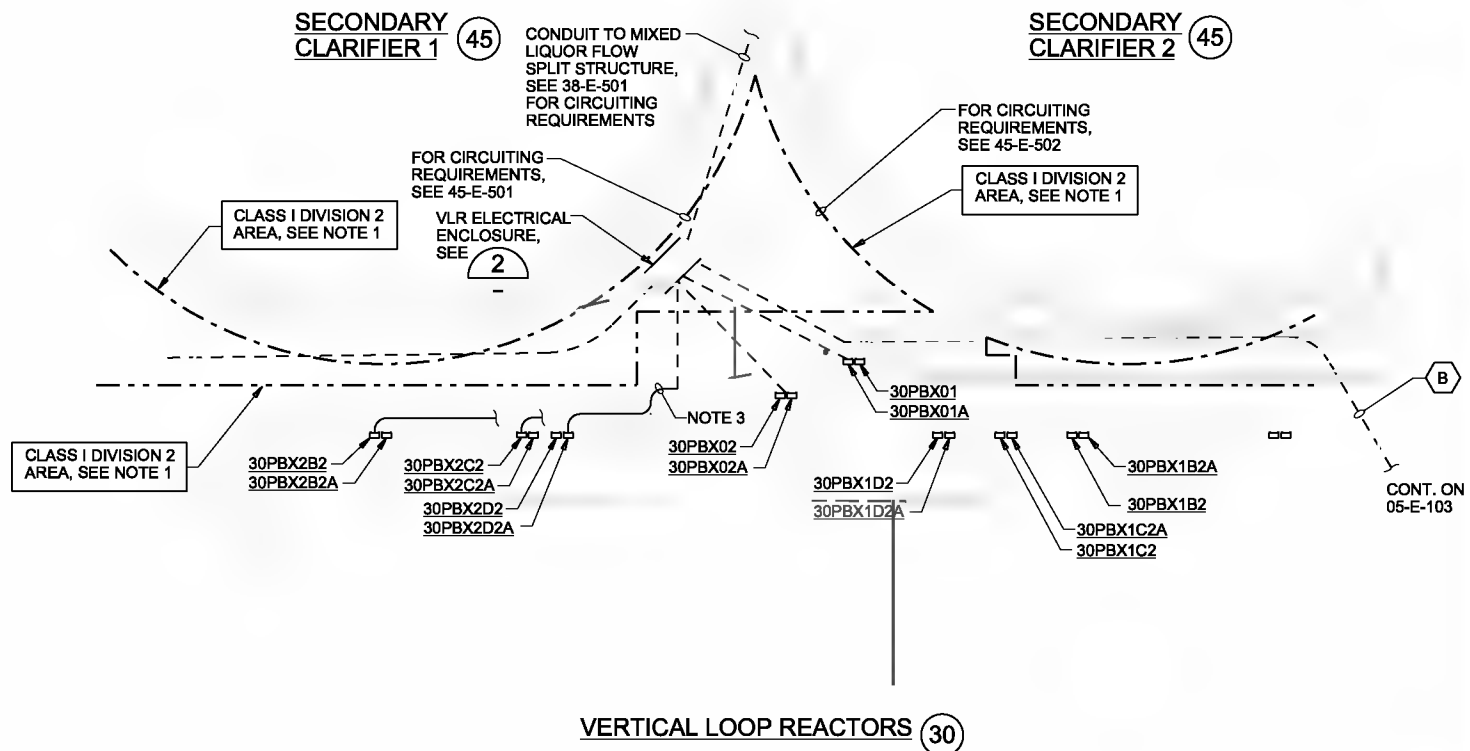
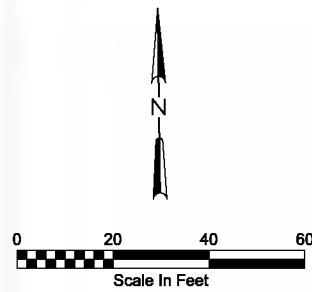
1. FOR CLARITY, NOT ALL CONDUITS ARE SHOWN. REFER TO RISER DIAGRAMS FOR SIZE AND NUMBER OF CONDUITS REQUIRED.
2. SUGGESTED ROUTING SHOWN. CONTRACTOR TO DETERMINE EXACT ROUTING. COORDINATE ROUTING WITH OTHER TRADES. CONDUITS SHALL NOT BE LOCATED UNDER WALKWAYS ROUTED FROM EAST TO WEST OR BELOW ELEVATION 213.
3. CONDUITS ARE SHOWN TO BE ROUTED EXPOSED. CONTRACTOR SHALL NOT ROUTE CONDUITS EMBEDDED IN SLAB OR COLUMNS UNLESS APPROVED BY ENGINEER.

SECTION A
1/4"=1'-0" 30-E-141

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| | | | | | | | |
|---|---|---------------------------------|---|---|--|---|--|
| DESIGNED BY: A. MAESTRI CHECKED BY: B. MAESTRI DATE: 05/06/06 | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | DRAWN BY: KLM DATE: 05/06/06 | VERIFIED SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | CH2MHILL CAROLLO engineers | CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENT PROJECT WWTP-03-01 LINN COUNTY, OREGON | VERTICAL LOOP REACTORS ELECTRICAL SECTION | SHEET: 312 DWG: 30-E-201 DATE: MAY 19 2006 PROJ: 326918 |
|---|---|---------------------------------|---|---|--|---|--|

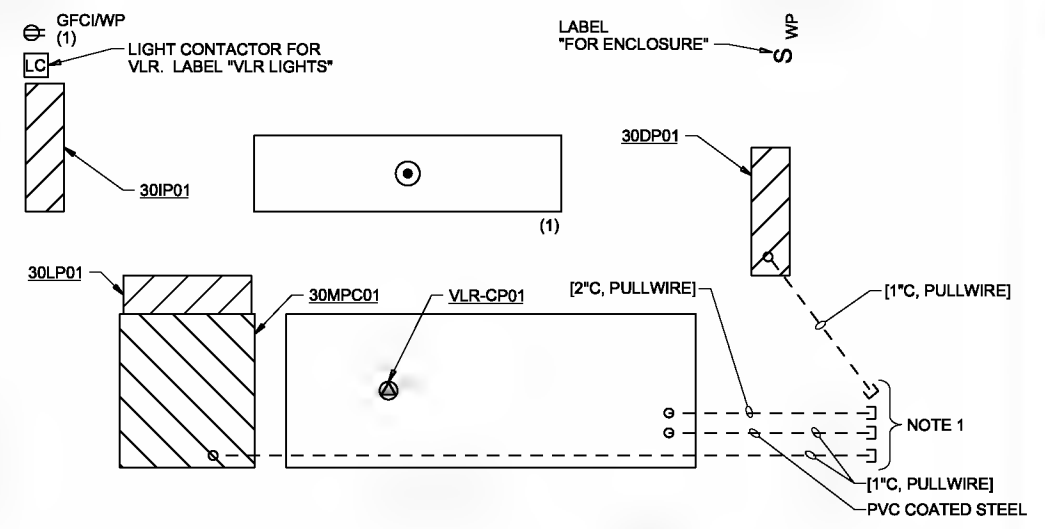
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VERTICAL LOOP REACTORS (30)

- NOTES:**
1. THE VERTICAL LOOP REACTORS AND SECONDARY CLARIFIERS ARE A CLASS I, DIVISION 2, GROUP D AREA WITHIN THE ENVELOPE SHOWN AND AS DESCRIBED ON 91-E-532. ALL EQUIPMENT LOCATED WITHIN THE ENVELOPE SHALL BE RATED FOR USE IN THIS AREA CLASSIFICATION AND SHALL CONFORM TO THE SPECIFICATIONS AND THE NATIONAL ELECTRIC CODE.
 2. CIRCUITS TO VERTICAL LOOP REACTOR EQUIPMENT AS INDICATED ON THE RISER DIAGRAMS.
 3. CONDUITS SHALL NOT BE ROUTED UNDERGROUND DIRECTLY FROM VLR BASINS 2B, 2C, 2D TO EQUIPMENT LOCATED AT THE ELECTRICAL ENCLOSURE. THE CONDUITS SHALL BE ROUTED ALONG THE NORTH WALL TO THE MIXED LIQUOR BOX THEN CONCEALED UNDERGROUND TO THE ELECTRICAL ENCLOSURE. THIS IS TO AVOID FUTURE CONSTRUCTION CONFLICTS WHEN THE FUTURE VERTICAL LOOP REACTOR IS CONSTRUCTED.

PARTIAL SITE PLAN



- NOTES:**
1. CONDUITS ARE FOR FUTURE VLR BASIN 1A. STUB CONDUITS OUT 2' FROM EXTERIOR WALL. CAP AND MARK LOCATION FOR FUTURE ACCESSIBILITY WHEN BASIN 1A IS CONSTRUCTED.
 2. REFER TO PARTIAL SITE PLAN, TO THE LEFT, AND THE RISER DIAGRAMS FOR ADDITIONAL CONDUITS ROUTED TO THE VLR ELECTRICAL ENCLOSURE.

VLR ELECTRICAL ENCLOSURE PLAN (2)
3/4"=1'-0"

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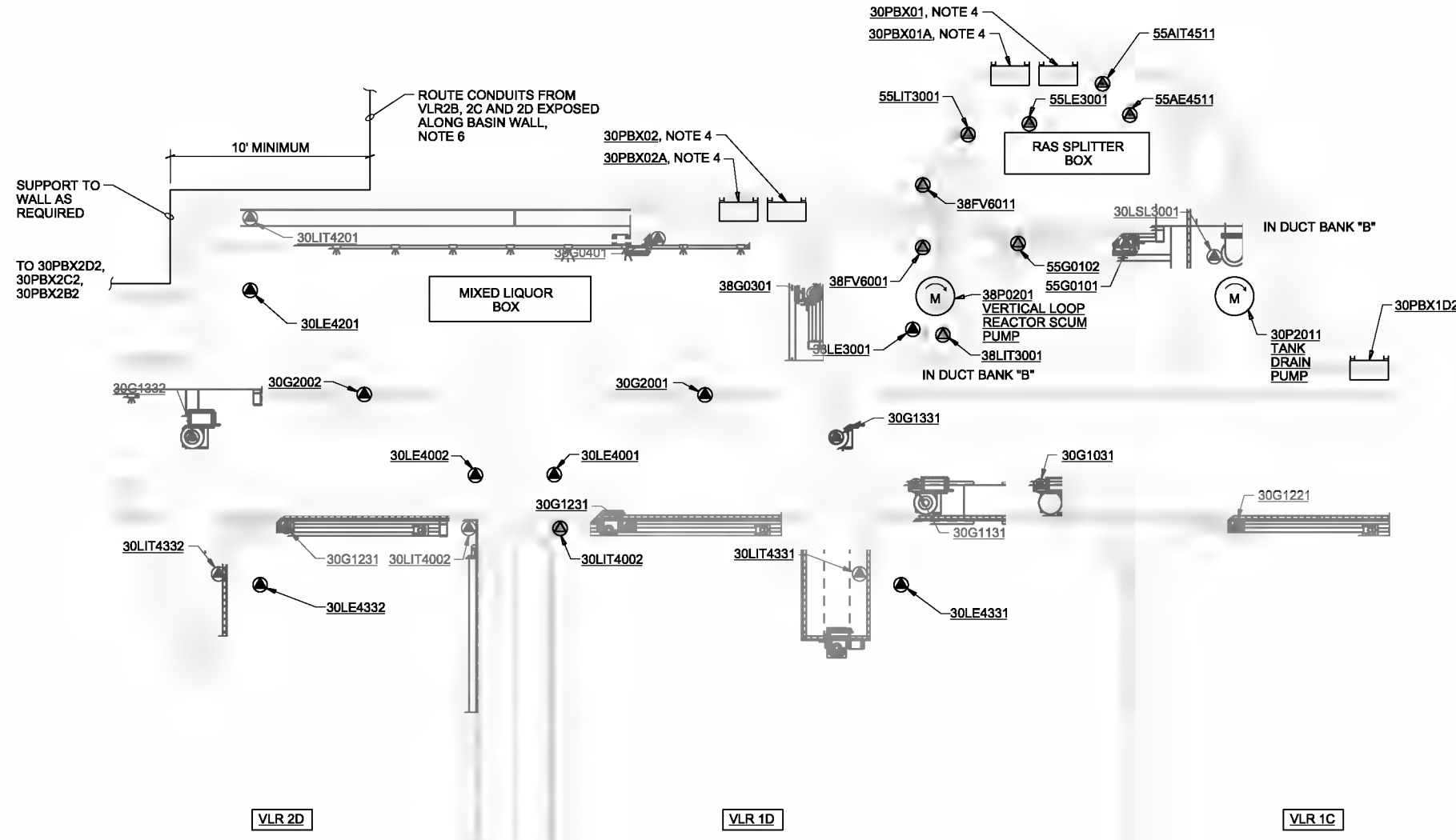
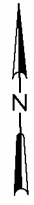
| | | | | | | |
|-------------------------------|----------------------|------------------|-------------------|---|-----------|------------------|
| DESIGNED BY KANDIL MAESTRI | CHECKED BY BLAINE | DATE 05/06/06 | SCALE AS-BUILT | PROJECT WASTEWATER SYSTEM IMPROVEMENTS | BY KLM | DATE 05/06/06 |
|-------------------------------|----------------------|------------------|-------------------|---|-----------|------------------|



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

| | | |
|------------------------|-------|-------------|
| VERTICAL LOOP REACTORS | SHEET | 313 |
| PARTIAL PLANS | DWG | 30-E-202 |
| | DATE | MAY 19 2006 |
| | PROJ | 326918 |

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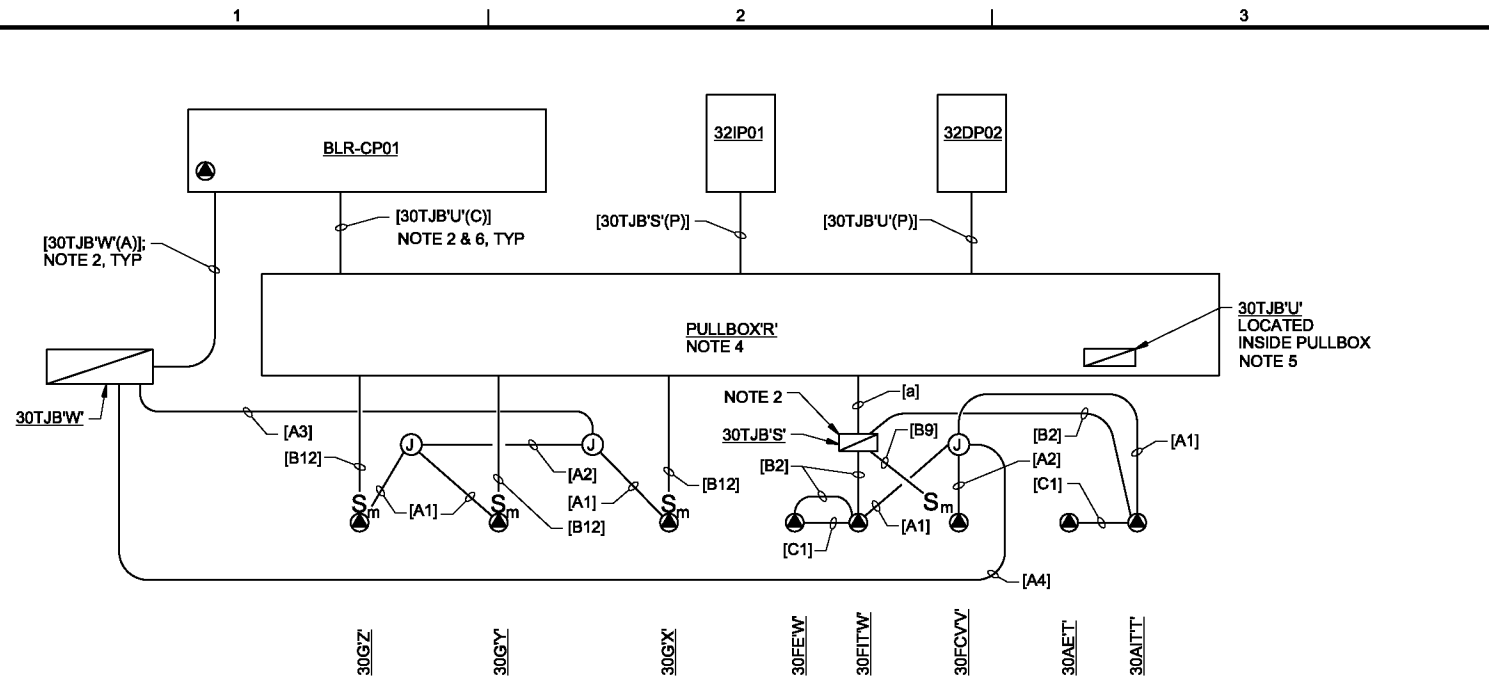
- NOTES:
1. THE VERTICAL LOOP REACTORS ARE A CLASS 1, DIVISION 2, GROUP D AREA WITHIN THE ENVELOPE SHOWN AND AS DESCRIBED ON ALL EQUIPMENT LOCATED WITHIN THE ENVELOPE SHALL BE RATED FOR USE IN THIS AREA CLASSIFICATION AND SHALL CONFORM TO THE SPECIFICATIONS AND THE NATIONAL ELECTRIC CODE. 1
91-E-532
 2. FOR PLAN OF VLR ELECTRICAL ENCLOSURE, SEE 30-E-202.
 3. MOTOR RATED SWITCHES ARE REQUIRED FOR ALL GATES AT THE VERTICAL LOOP REACTORS. INSTALL IN ACCORDANCE TO 16500.
 4. CONTRACTOR TO SIZE PULLBOX PER NEC AND SPECIFICATIONS. MOUNT PER 16167.
 5. CONDUITS TO BE ROUTED BELOW GRATING TO CROSS CHANNELS. SUPPORT AS REQUIRED. ROUTE ABOVE NORMAL WATER SURFACE LEVEL. COORDINATE ROUTING WITH OTHER TRADES PRIOR TO WALLS BEING CONSTRUCTED.
 6. CONDUITS SHALL NOT BE ROUTED UNDERGROUND DIRECTLY FROM VLR BASINS 2B, 2C, 2D TO EQUIPMENT LOCATED AT THE ELECTRICAL ENCLOSURE. THE CONDUITS SHALL BE ROUTED ALONG THE NORTH WALL TO THE MIXED LIQUOR BOX THEN CONCEALED UNDERGROUND TO THE ELECTRICAL ENCLOSURE. THIS IS TO AVOID FUTURE CONSTRUCTION CONFLICTS WHEN THE FUTURE VERTICAL LOOP REACTOR IS CONSTRUCTED.

PARTIAL PLAN
1/4"=1'-0"

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| | | | | | | | | | | |
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| DESIGN K. MAESTRI | DATE 05/06/06 | NO. | DATE | BY KLM | APPROVED KLM | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0" = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | | CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENTS PROJECT WWTP-03-01 LINN COUNTY, OREGON | VERTICAL LOOP REACTORS ELECTRICAL PARTIAL PLAN | SHEET 314 |
| DR K. MAESTRI | DATE 05/06/06 | NO. | DATE | BY KLM | APPROVED KLM | DWG 30-E-203 DATE MAY 19 2006 PROJ 326918 | | | | FILENAME 30w202_200610.dwg PLOT DATE 07/19/2006 PLOT TIME 4:57:18 PM |

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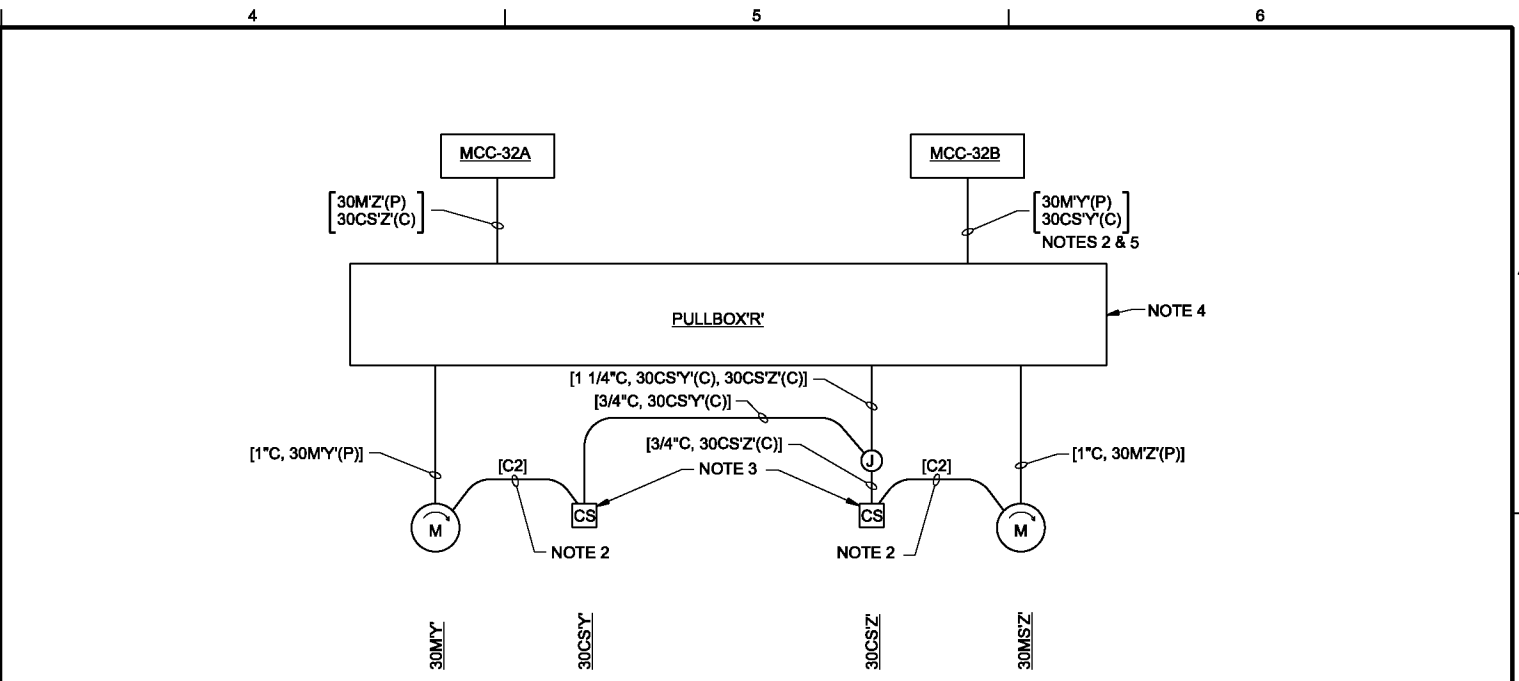


CONDUIT CALLOUTS:
 [a] = [1 1/4"C, 30TJB'S(P),2#14, 3#12, 1#12G]

- NOTES:**
1. THIS IS A TYPICAL WIRING DIAGRAM AND IS TYPICAL FOR THE SIX VLR BASINS. REFER TO THE TABLE FOR EQUIPMENT NUMBERS FOR EACH BASIN.
 2. REFER TO SITE ROUTED CONDUIT SCHEDULE FOR CONDUIT SIZE AND ROUTING OF CIRCUITS FROM PULLBOX TO PANELS LOCATED INSIDE THE ELECTRICAL ROOM.
 3. PROVIDE TJB TERMINALS FOR FIT 'W' AND AIT 'T' POWER CIRCUIT. USE TJB ENCLOSURE AS A PULL POINT FOR 3#12,2#14,1#12G. DO NOT SPLICE THESE CIRCUITS IN THE TJB.
 4. SEE ADDITIONAL RISER DIAGRAMS FOR OTHER CIRCUITS ROUTED THROUGH PULLBOX 'R'.
 5. LOCATE TERMINAL STRIPS FOR VALVE AND GATES POWER IN PULLBOX 'R' SIMILAR TO (16563). LOCATE TERMINAL STRIPS FOR VALVE AND GATE CONTROLS IN PULLBOX 'R' SIMILAR TO (16564).
 6. REFER TO THE SITE ROUTED CIRCUIT SCHEDULE FOR CIRCUITING REQUIREMENTS.

| TAG NAMES FOR EACH VLR BASIN | | | | | | |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| GENERIC TAG | VLR 2B | VLR 2C | VLR 2D | VLR 1D | VLR 1C | VLR 1B |
| 30G'Z | 30G0112 | 30G0122 | 30G0132 | 30G0231 | 30G0221 | 30G0211 |
| 30G'Y | 30G0312 | 30G0322 | 30G0332 | 30G0331 | 30G0321 | 30G0311 |
| 30G'X | 30G0212 | 30G0222 | 30G0232 | 30G0131 | 30G0121 | 30G0111 |
| 30FE'W | 30FE4012 | 30FE4022 | 30FE4032 | 30FE4031 | 30FE4021 | 30FE4011 |
| 30FIT'W | 30FIT4012 | 30FIT4022 | 30FIT4032 | 30FIT4031 | 30FIT4021 | 30FIT4011 |
| 30FCV'V | 30FCV6512 | 30FCV6522 | 30FCV6532 | 30FCV6531 | 30FCV6521 | 30FCV6511 |
| 30AET' | 30AE4112 | 30AE4122 | 30AE4132 | 30AE4131 | 30AE4121 | 30AE4111 |
| 30AIT'T | 30AIT4112 | 30AIT4122 | 30AIT4132 | 30AIT4131 | 30AIT4121 | 30AIT4111 |
| 30TJB'S' | 30TJB2B3 | 30TJB2C3 | 30TJB2D3 | 30TJB1D3 | 30TJB1C3 | 30TJB1B3 |
| 30TJB'U' | 30TJB2B1 | 30TJB2C1 | 30TJB2D1 | 30TJB1D1 | 30TJB1C1 | 30TJB1B1 |
| PULLBOX'R' | 30PBX2B1 | 30PBX2C1 | 30PBX2D1 | 30PBX1D1 | 30PBX1C1 | 30PBX1B1 |
| 30TJB'W' | 30TJB2B4 | 30TJB2C4 | 30TJB2D4 | 30TJB1D4 | 30TJB1C4 | 30TJB1B4 |

TYPICAL VLR BASINS SOUTH END GATES, VALVES AND INSTRUMENTS



- NOTES:**
1. THIS IS A TYPICAL WIRING DIAGRAM AND IS TYPICAL FOR THE SIX VLR BASINS. REFER TO THE TABLE FOR EQUIPMENT NUMBERS FOR EACH BASIN.
 2. REFER TO SITE ROUTED CONDUIT SCHEDULE FOR CONDUIT SIZE AND ROUTING OF CIRCUITS FROM PULLBOX TO PANELS LOCATED INSIDE THE ELECTRICAL ROOM.
 3. STRIP BACK MULTI CONDUCTOR JACKET OF 30CS'Y'(C) AND 30CS'Z'(C) AND EXTEND INDIVIDUAL WIRES TO MOTOR T-STAT.
 4. SEE ADDITIONAL RISER DIAGRAMS FOR OTHER CIRCUITS ROUTED THROUGH PULLBOX 'R'.
 5. REFER TO THE SITE ROUTED CIRCUIT SCHEDULE FOR CIRCUITING REQUIREMENTS.

| TAG NAMES FOR EACH VLR BASIN | | | | | | |
|------------------------------|----------|----------|----------|----------|----------|----------|
| GENERIC TAG | VLR 2B | VLR 2C | VLR 2D | VLR 1D | VLR 1C | VLR 1B |
| 30M'Y | 30M1612 | 30M1622 | 30M1632 | 30M1631 | 30M1621 | 30M1611 |
| 30M'Z | 30M1512 | 30M1522 | 30M1532 | 30M1531 | 30M1521 | 30M1511 |
| PULLBOX'R' | 30PBX2B1 | 30PBX2C1 | 30PBX2D1 | 30PBX1D1 | 30PBX1C1 | 30PBX1B1 |

TYPICAL DISC AERATORS

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| | | | | | | | |
|------|------------|-----|------|----------|----|------|---|
| DSGN | KL MAESTRI | NO. | DATE | REVISION | BY | APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | GJ LOVE | | | | | | |
| CHK | JB MAURAS | | | | | | |
| APVD | CW MASSIE | | | | | | |



CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

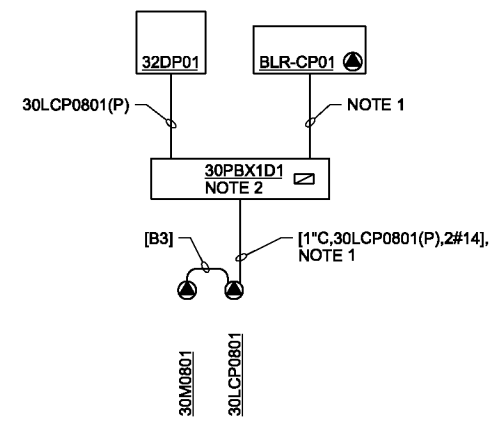
VERTICAL LOOP REACTORS
ELECTRICAL
 RISER DIAGRAMS

| | |
|-------|-------------|
| SHEET | 315 |
| DWG | 30-E-501 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

REUSE OF DOCUMENTS: CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.

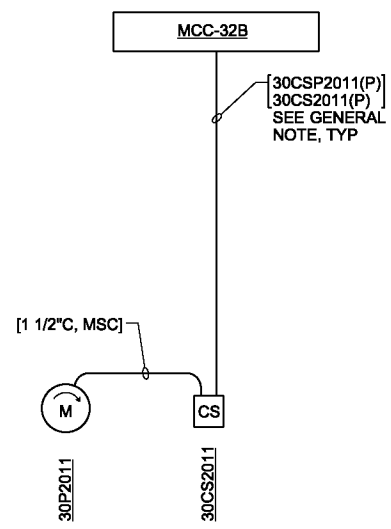
GENERAL NOTES FOR ALL RISER DIAGRAMS ON THIS SHEET:

- 1. REFER TO SITE Routed CONDUIT SCHEDULE FOR CONDUIT SIZE AND ROUTING OF CIRCUITS FROM PULLBOX TO PANELS LOCATED INSIDE THE ELECTRICAL ROOM.
- 2. REFER TO SITE Routed CIRCUIT SCHEDULE FOR CIRCUITS Routed ON SITE.

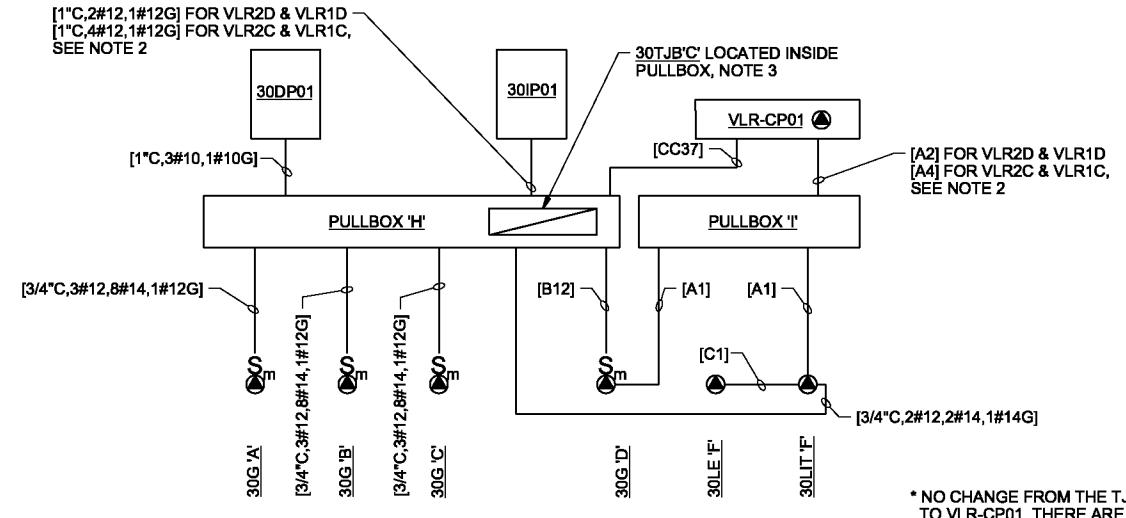


- NOTE:
- 1. SEE ADDITIONAL RISER DIAGRAMS FOR OTHER CIRCUITS Routed THROUGH 30PBX1D1.
 - 2. 2#14'S TERMINATED IN 30PBX1D1 FOR LUBE SYSTEM CONTROLS. CABLE 30TJB1D1(C) CONTAINS THIS SIGNAL FROM 30PBX1D1 TO BLR-CP01.

LUBRICATION SYSTEM



TANK DRAIN PUMP

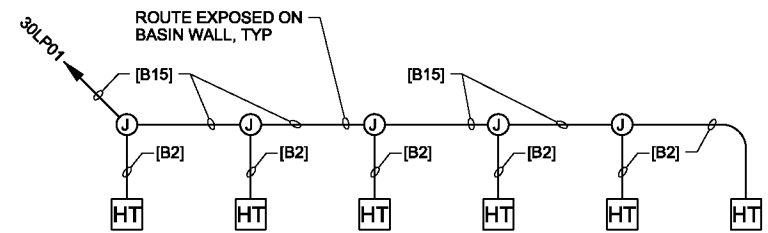


- NOTES:
- 1. THIS IS A TYPICAL WIRING DIAGRAM AND IS TYPICAL FOR 4 VLR BASINS. REFER TO THE TABLE FOR EQUIPMENT NUMBERS FOR EACH BASIN.
 - 2. CIRCUITS FOR 30LT4312 AND 30LT4311 CONTAINED IN THESE CONDUITS SHOWN IN RISER DIAGRAM BELOW.
 - 3. LOCATE TERMINAL STRIPS FOR VALVE AND GATES POWER IN PULLBOX 'H' SIMILAR TO (16563). LOCATE TERMINAL STRIPS FOR VALVE, GATE AND LIT CONTROLS IN PULLBOX 'H' SIMILAR TO (16564).

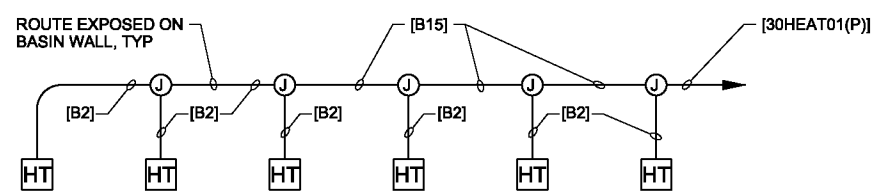
VLR BASIN 2C, 2D, 1D, 1C NORTH END GATES & INSTRUMENTS

TAG NAMES FOR EACH VLR BASIN

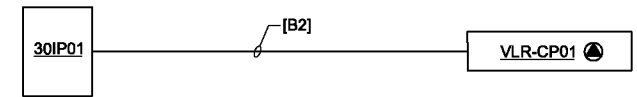
| GENERIC TAG | VLR 2C | VLR 2D | VLR 1D | VLR 1C |
|-------------|-----------|-----------|-----------|-----------|
| 30G'A' | 30G1022 | 30G1032 | 30G1031 | 30G1021 |
| 30G'B' | 30G1122 | 30G1132 | 30G1131 | 30G1121 |
| 30G'C' | 30G1322 | 30G1332 | 30G1331 | 30G1321 |
| 30G'D' | 30G1222 | 30G1232 | 30G1231 | 30G1221 |
| 30LE'F' | 30LE4322 | 30LE4332 | 30LE4331 | 30LE4321 |
| 30LIT'F' | 30LIT4322 | 30LIT4332 | 30LIT4331 | 30LIT4321 |
| 30TJB'G' | 30TJB2C3 | 30TJB2D3 | 30TJB1D3 | 30TJB1C3 |
| PULLBOX'H' | 30PBX2C2 | 30PBX2D2 | 30PBX1D2 | 30PBX1C2 |
| PULLBOX'I' | 30PBX2C2A | 30PBX2D2A | 30PBX1D2A | 30PBX1C2A |



HEAT TRACING AT NORTH END OF VLRS



HEAT TRACING AT SOUTH END OF VLRS



CONTROL PANEL POWER

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| | | | | | | | |
|---|------------|-----|------|----------|----|------|--------------|
| DSGN | KL MAESTRI | NO. | DATE | REVISION | BY | APVD | VERIFY SCALE |
| DR | GJ LOVE | | | | | | |
| CHK | JB MAURAS | | | | | | |
| APVD | CW MASSIE | | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | GRW | KLM | | | | |
| BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | | | | | | | |

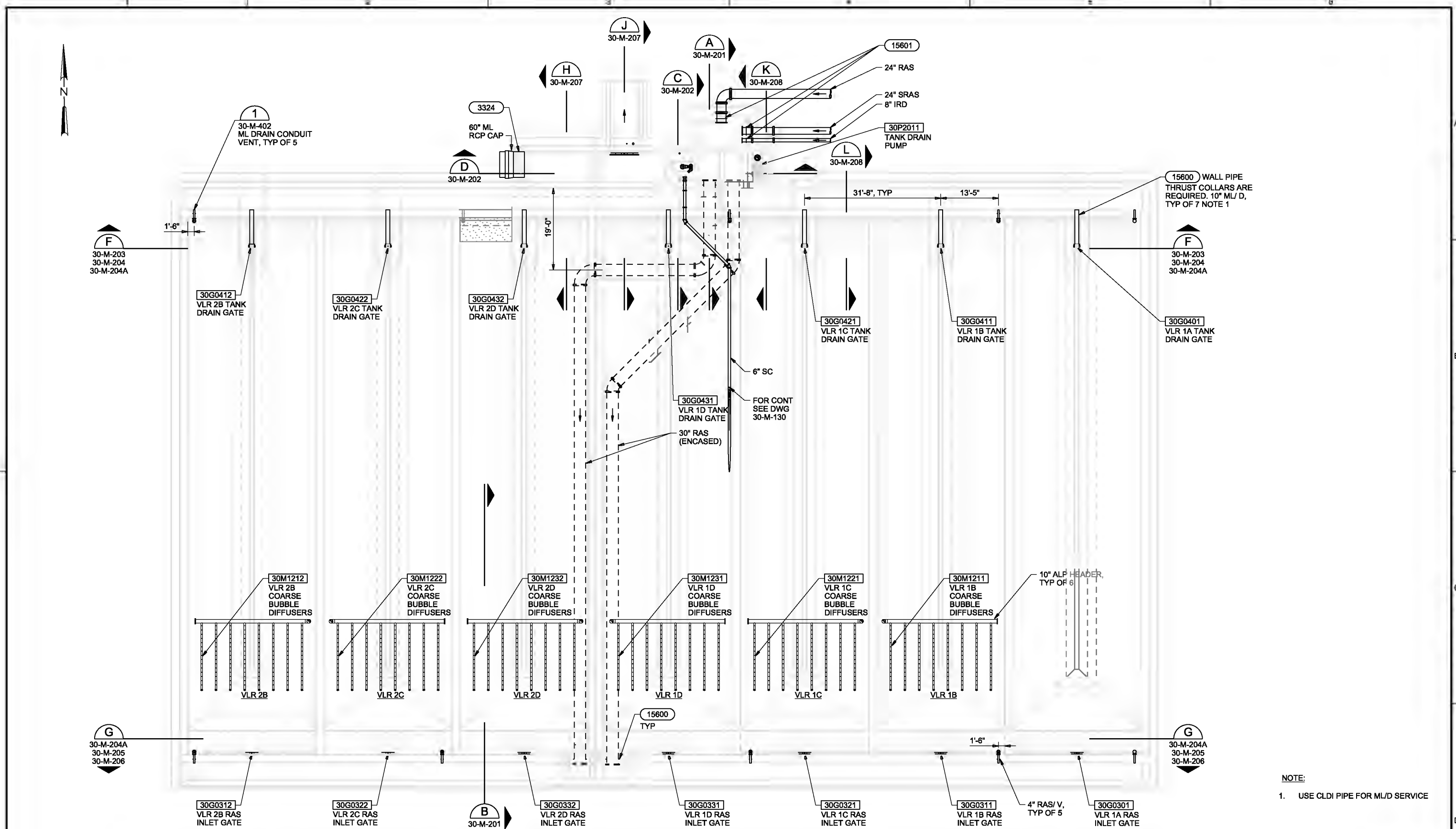


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

VERTICAL LOOP REACTORS
ELECTRICAL
RISER DIAGRAMS

| | |
|-------|-------------|
| SHEET | 318 |
| DWG | 30-E-503 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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LOWER LEVEL PLAN
3/32"=1'-0"

NOTE:
1. USE CLDI PIPE FOR ML/D SERVICE

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| | | | | | |
|------|------------|----------|------|----------|----|
| DSGN | KE MATHES | | | | |
| DR | ER BROWN | | | | |
| CHK | BR JOHNSON | 01/20/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0" = 1'
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

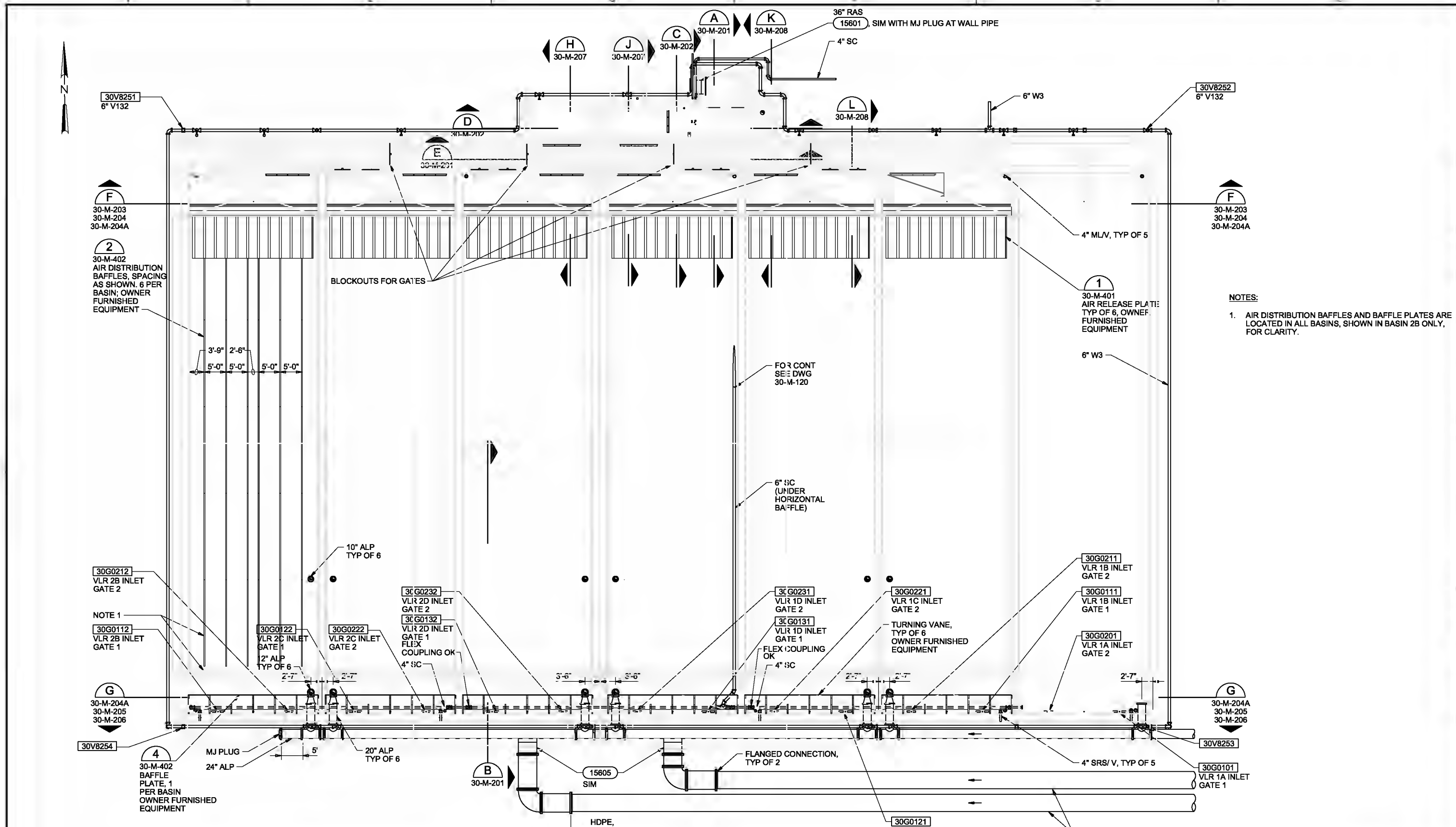


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

VERTICAL LOOP REACTORS
MECHANICAL OVERALL LOWER LEVEL PLAN

| | |
|-------|-------------|
| SHEET | 319 |
| DWG | 30-M-120 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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INTERMEDIATE LEVEL PLAN
3/32"=1'-0"

- NOTES:**
- AIR DISTRIBUTION BAFFLES AND BAFFLE PLATES ARE LOCATED IN ALL BASINS, SHOWN IN BASIN 2B ONLY, FOR CLARITY.

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| | | | | | |
|------|------------|----------|------|----------|----|
| DSGN | KE MATHES | | | | |
| DR | ER BROWN | | | | |
| CHK | RL JOHNSON | 01/20/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0" = 1'
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

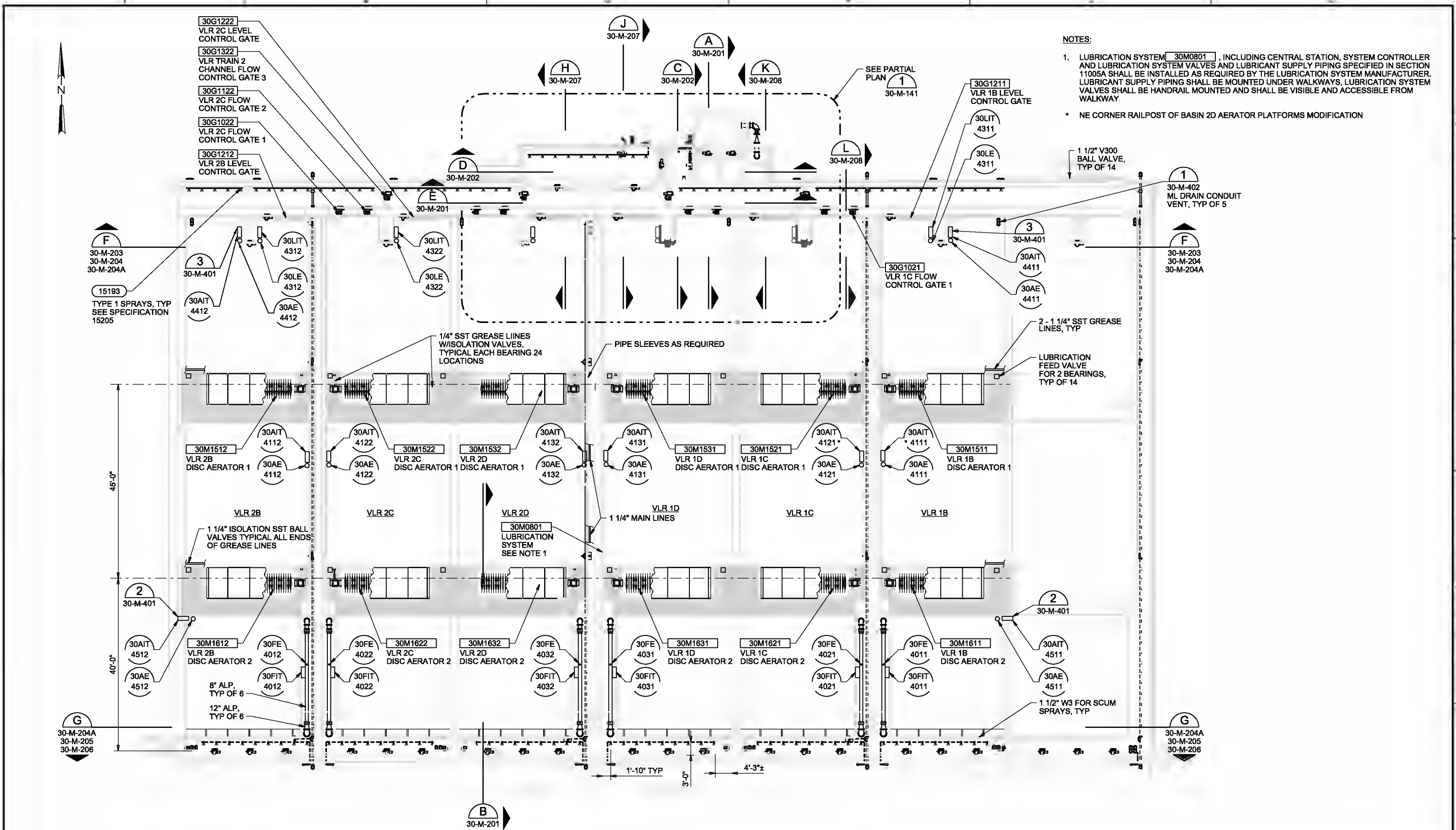


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

VERTICAL LOOP REACTORS
MECHANICAL
OVERALL INTERMEDIATE LEVEL
PLAN

| | |
|-------|-------------|
| SHEET | 320 |
| DWG | 30-M-130 |
| DATE | MAY 19 2006 |
| PROJ | 326916 |

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- NOTES:**
- LUBRICATION SYSTEM 30M0801, INCLUDING CENTRAL STATION, SYSTEM CONTROLLER AND LUBRICATION SYSTEM VALVES AND LUBRICANT SUPPLY PIPING SPECIFIED IN SECTION 11005A SHALL BE INSTALLED AS REQUIRED BY THE LUBRICATION SYSTEM MANUFACTURER. LUBRICANT SUPPLY PIPING SHALL BE MOUNTED UNDER WALKWAYS. LUBRICATION SYSTEM VALVES SHALL BE HANDRAIL MOUNTED AND SHALL BE VISIBLE AND ACCESSIBLE FROM WALKWAY.
 - NE CORNER RAILPOST OF BASIN 2D AERATOR PLATFORMS MODIFICATION

UPPER LEVEL PLAN
3/32"=1'-0"

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| | | | | | |
|------|------------|----------|------|----------|----|
| DSGN | KE MATHES | | | | |
| DR | ER BROWN | | | | |
| CHK | RL JOHNSON | 01/20/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

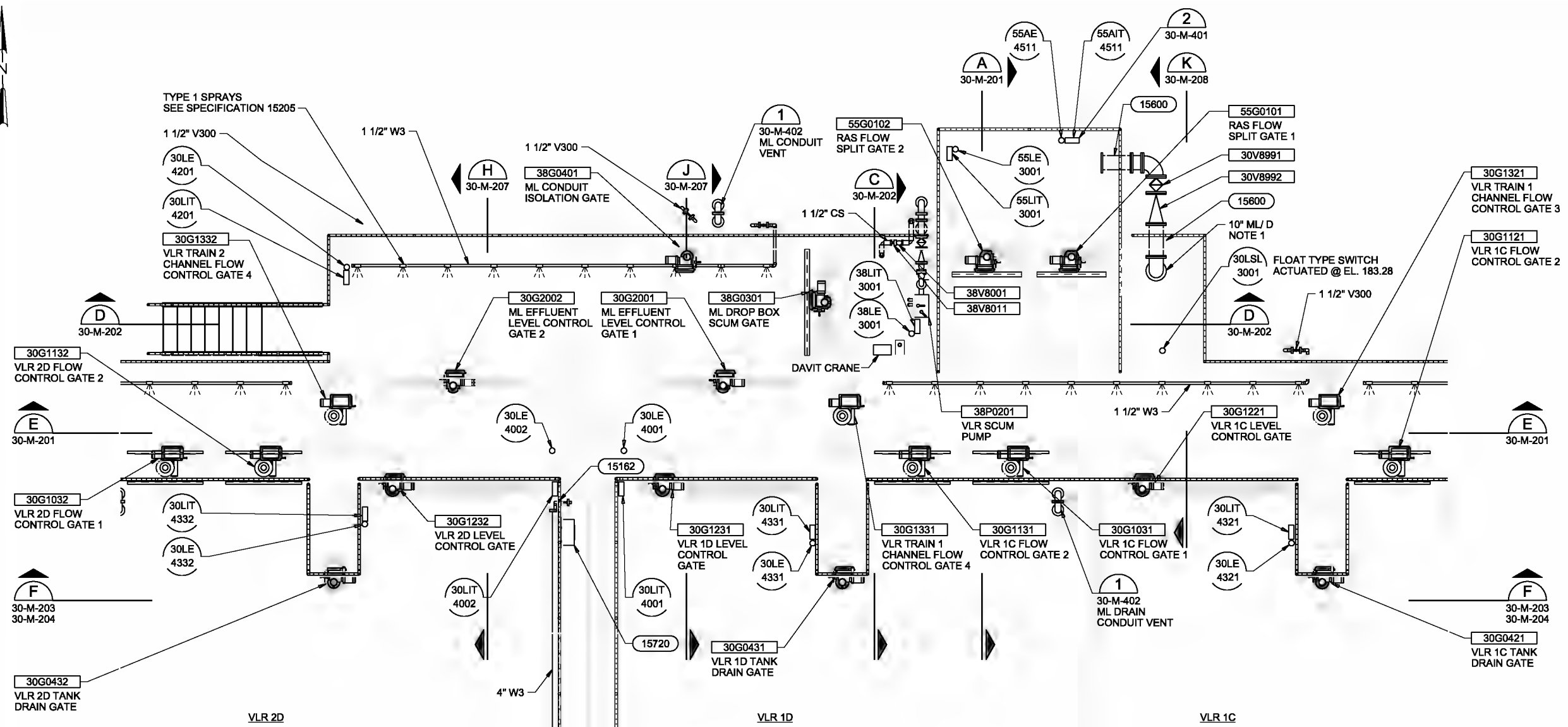
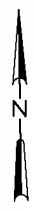


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

VERTICAL LOOP REACTORS
MECHANICAL
OVERALL UPPER LEVEL
PLAN

| | |
|-------|-------------|
| SHEET | 321 |
| DWG | 30-M-140 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOTES:
 1. USE CLDI PIPE FOR ALL ML/D SERVICE.

PARTIAL PLAN 1
 1/4"=1'-0" 30-M-140

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| | | | |
|--------------------------|------------------|----------------------|------------|
| DESIGNER M. MATHIAS | DATE 01/20/06 | REVISION AS-BUILT | BY APVD |
| CHECKER E. BROWN | DATE | REVISION | BY |
| APPROVER C. W. MASSIE | DATE | REVISION | BY |

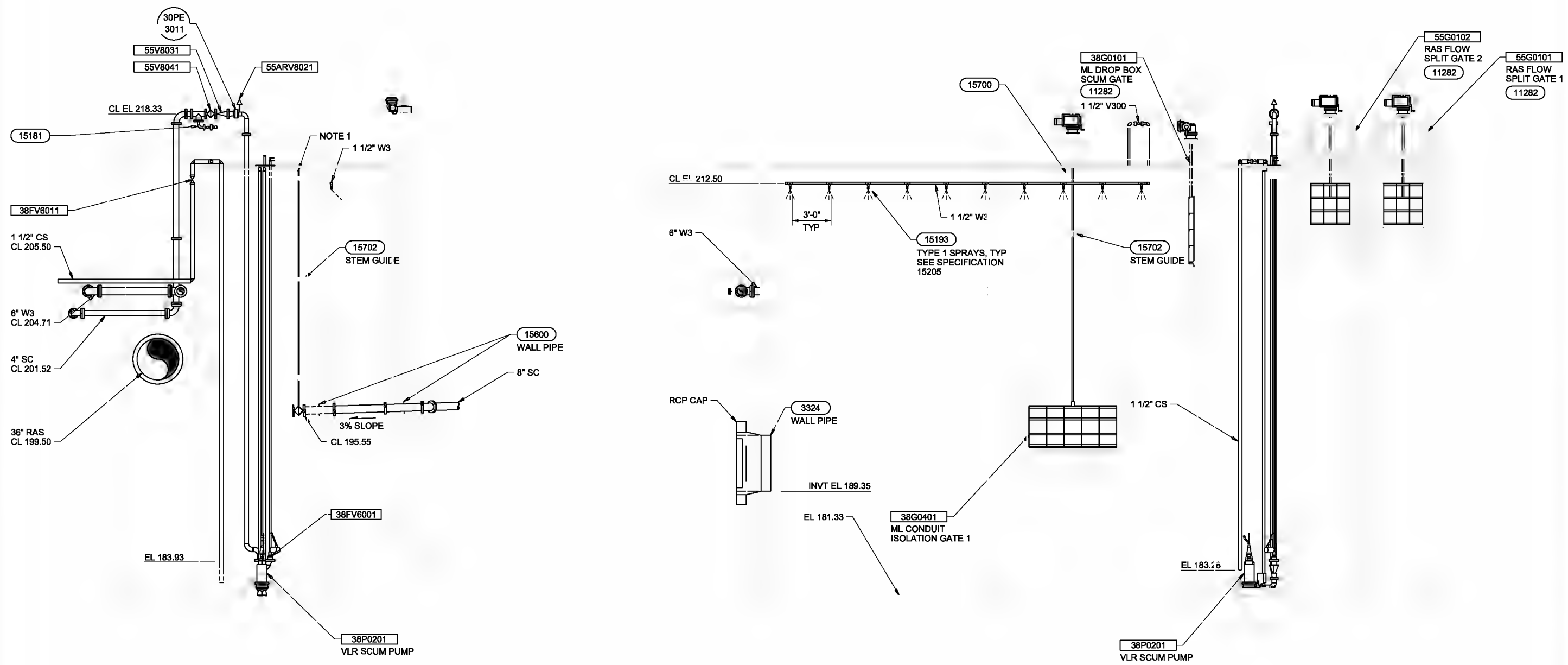
VERIFY SCALE
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CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

| | |
|-----------------------------------|--------------|
| PROJECT VERTICAL LOOP REACTORS | SHEET 322 |
| DWG MECHANICAL PARTIAL PLAN | 30-M-141 |
| DATE MAY 19 2006 | |
| PROJ 326918 | |

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NOTE:
 1. OPERATOR IS NUT TYPE OPERATOR WITH INSTALLATION SIMILAR TO DETAIL 15201

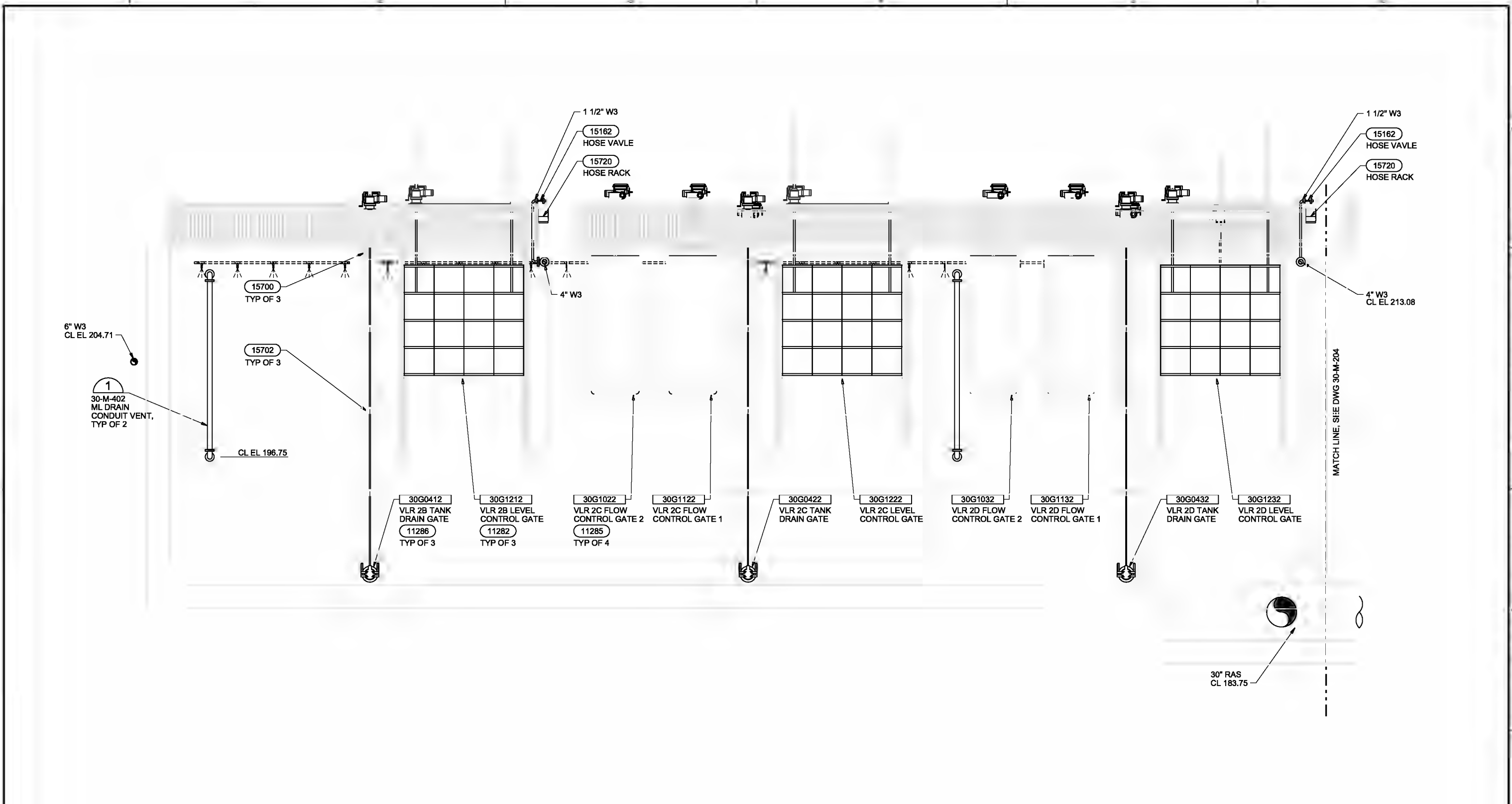
SECTION C
 1/4"=1'-0"
 30-M-120
 30-M-130
 30-M-140
 30-M-141

SECTION D
 1/4"=1'-0"
 30-M-120
 30-M-130
 30-M-140
 30-M-141

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| | | | | | | |
|---|--|--|--|---|---|--|
| DESIGNED BY: MATHIAS CHECKED BY: BROWN DATE: 05/06/06 | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) | VERIFIED SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | CH2MHILL CAROLLO engineers | CITY OF ALBANY SYSTEM IMPROVEMENTS PROJECT WWTP-03-01 LINN COUNTY, OREGON | VERTICAL LOOP REACTORS MECHANICAL SECTIONS | SHEET: 324 DWG: 30-M-202 DATE: MAY 19 2006 PROJ: 326918 |
|---|--|--|--|---|---|--|

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

- 30-M-120
- 30-M-130
- 30-M-140
- 30-M-141

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| | | | | | | | |
|----------|------------|--|-----|------|----------|----|----------|
| DESIGN | W. MATHES | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | NO. | DATE | REVISION | BY | APPROVED |
| DR | E. BROWN | | | | | | |
| CHK | R. JOHNSON | | | | | | |
| APPROVED | C. MASSIE | | | | | | |

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

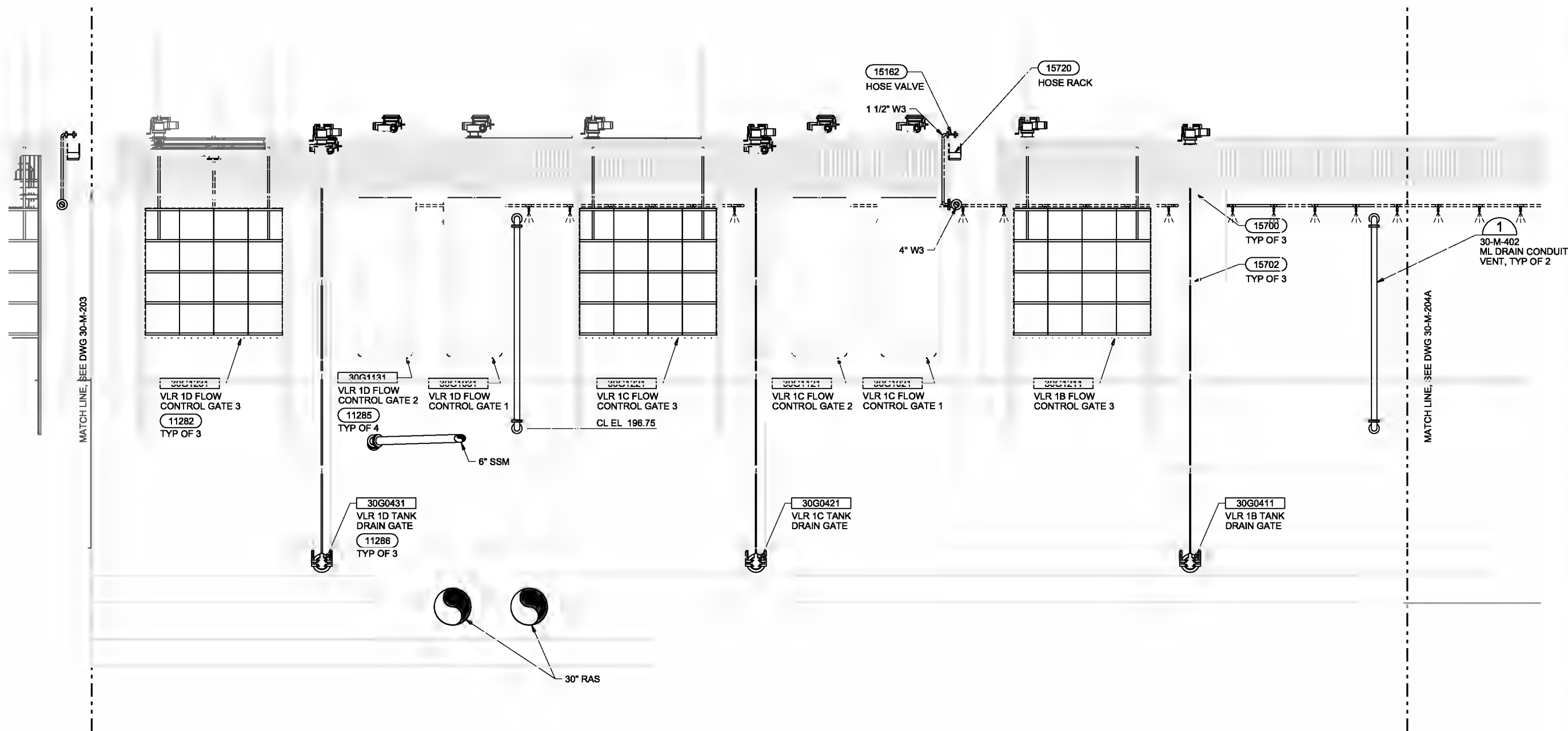


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

VERTICAL LOOP REACTORS
MECHANICAL SECTION

| | |
|-------|-------------|
| SHEET | 325 |
| DWG | 30-M-203 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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

30-M-120
30-M-130
30-M-140
30-M-141

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY CRAIG WHITMAN MASSIE STATE OF OREGON, P.E. NO. 16,043.

| | | | | | |
|--------|------------|-----|------|----------|----|
| DESIGN | KE MATHES | | | | |
| DR | EA BROWN | | | | |
| CHK | RL JOHNSON | | | | |
| APV | CW MASSIE | NO. | DATE | REVISION | BY |
| | | | | AS-BUILT | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

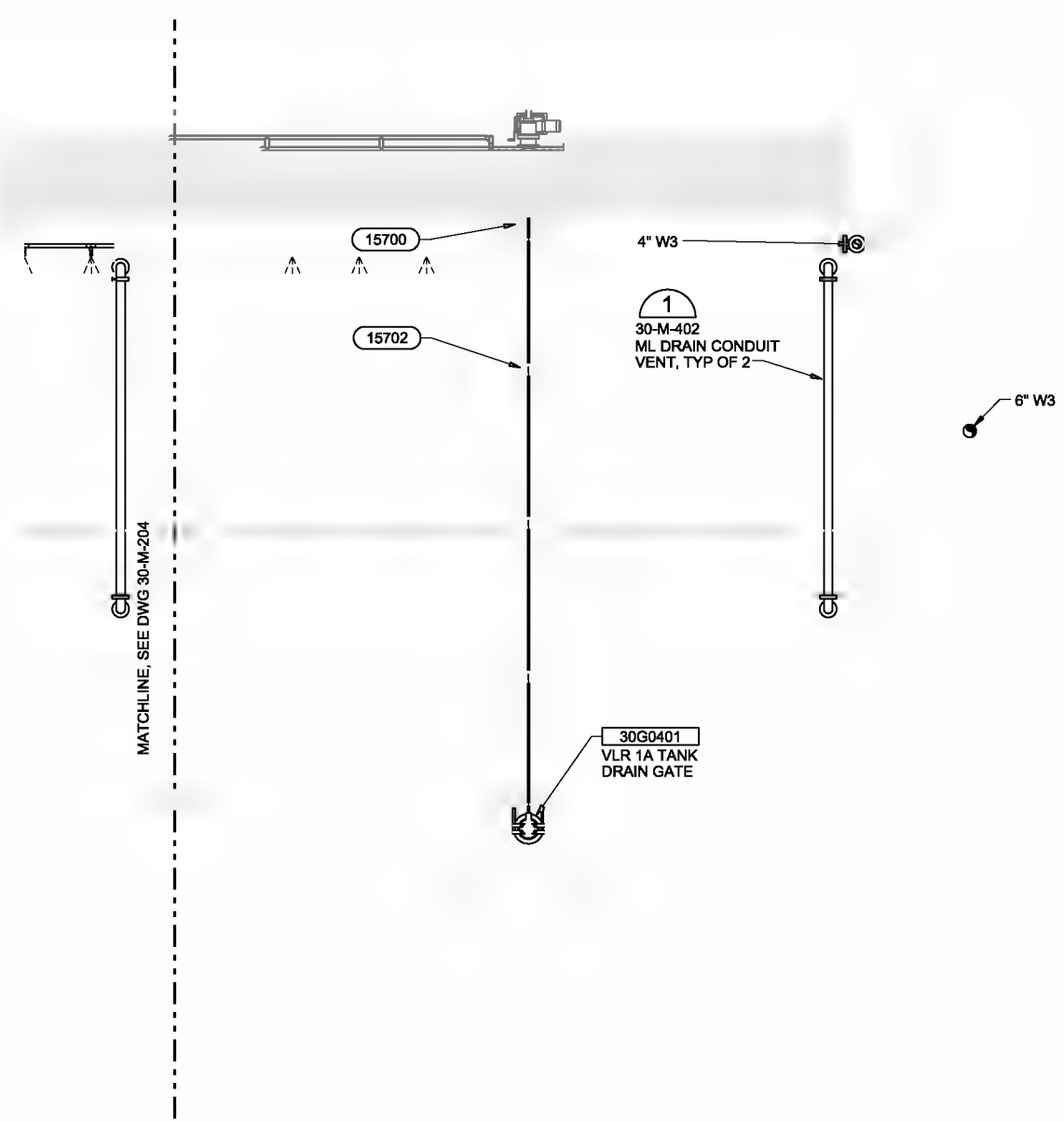


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

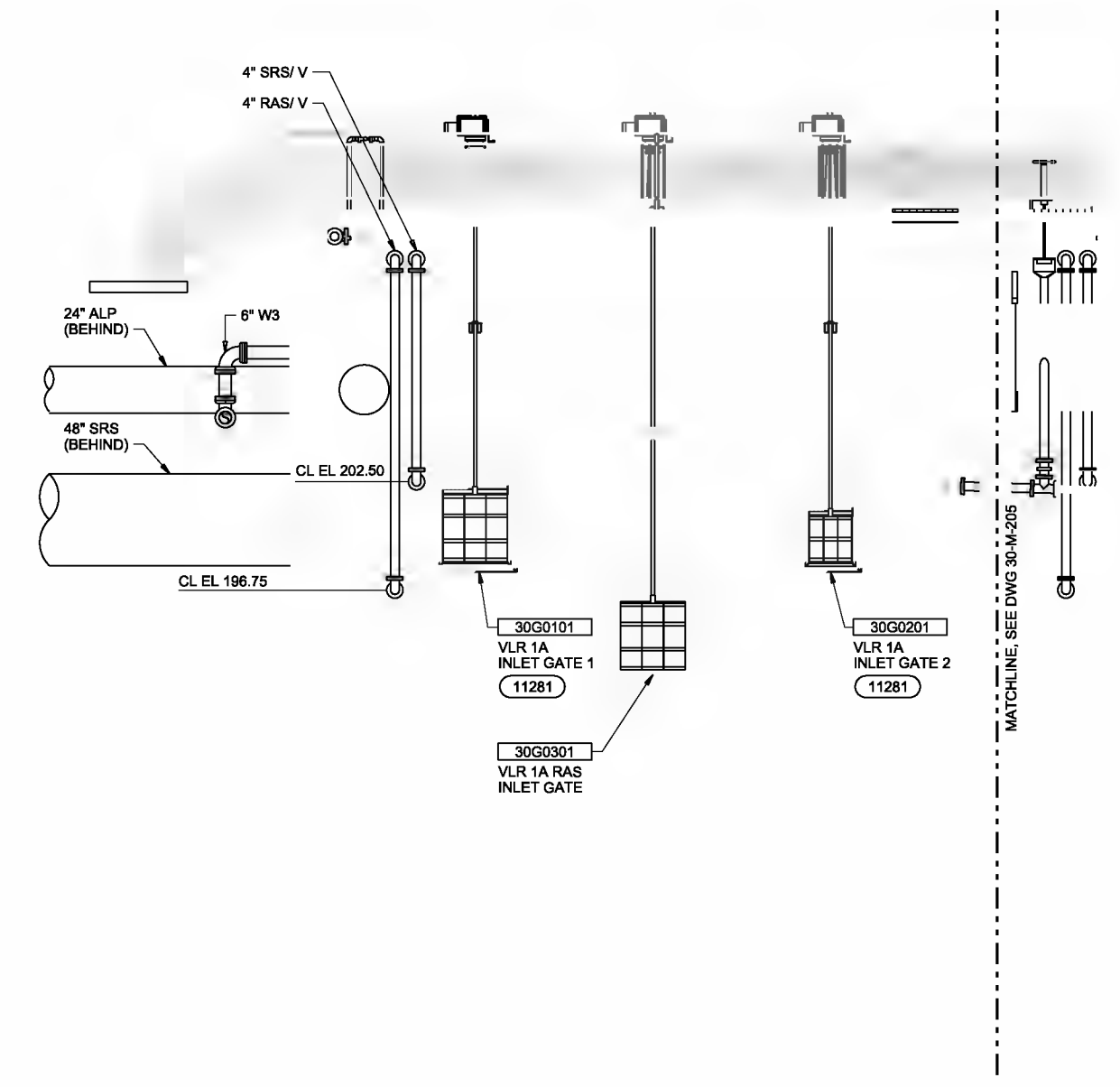
VERTICAL LOOP REACTORS
MECHANICAL SECTION

| | |
|-------|-------------|
| SHEET | 326 |
| DWG | 30-M-204 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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SECTION F
 1/4"=1'-0"
 30-M-120
 30-M-130
 30-M-140



SECTION G
 1/4"=1'-0"
 30-M-120
 30-M-130
 30-M-140

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY CRAIG WHITMAN MASSIE STATE OF OREGON, P.E. NO. 16,043.

| | | | | |
|--|----------------------|------------------|---|-------------------|
| DESIGNER M. MATHER | CHECKED M. MATHER | DATE 05/06/06 | PROJECT WASTEWATER SYSTEM IMPROVEMENTS | BY M. MATHER |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) | | | CH2M HILL | CAROLLO ENGINEERS |

VERTICAL SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
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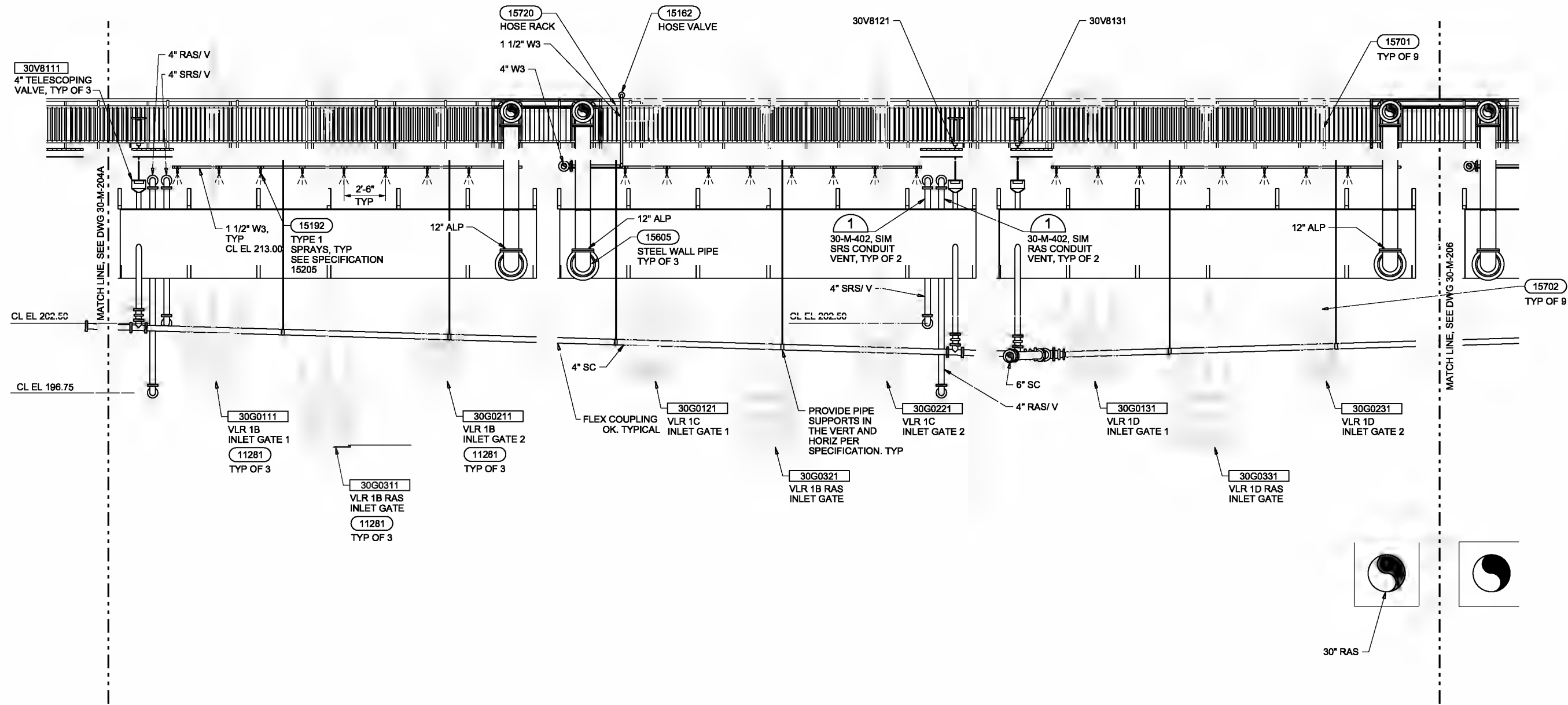


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

VERTICAL LOOP REACTORS
 MECHANICAL SECTION

| | |
|-------|-------------|
| SHEET | 327 |
| DWG | 30-M-204A |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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SECTION G
1/4"=1'-0" 30-M-120
30-M-130
30-M-140

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| | | | | | | |
|--------|-----------|-----|------|----------|----|----------|
| DESIGN | W. MATHER | NO. | DATE | REVISION | BY | APPROVED |
| DR | W. MATHER | | | | | |
| CHK | W. MATHER | | | | | |
| APP | W. MATHER | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)

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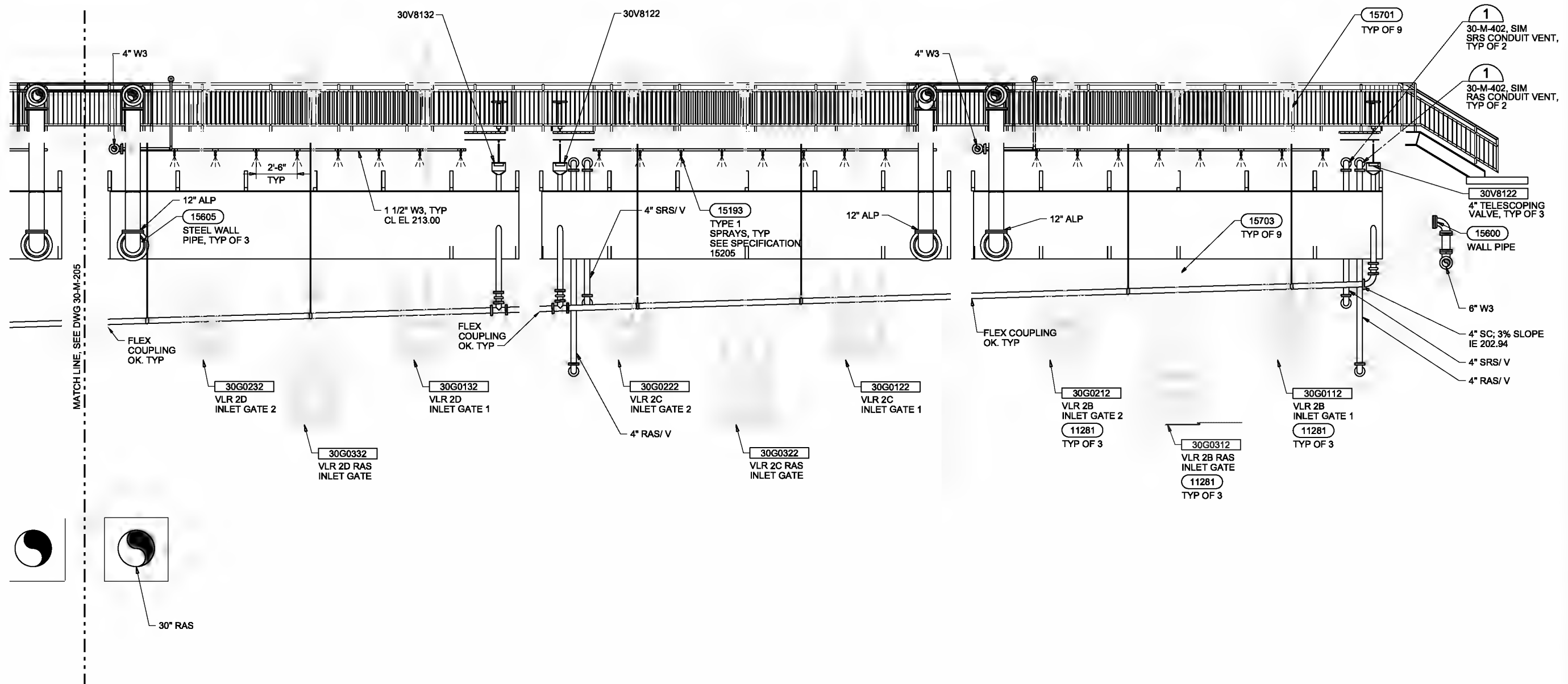


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

VERTICAL LOOP REACTORS
MECHANICAL SECTION

| | |
|-------|-------------|
| SHEET | 328 |
| DWG | 30-M-205 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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SECTION G
 1/4"=1'-0" 30-M-120
 30-M-130
 30-M-140

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| | | | |
|--------|--------------|------|----------|
| DESIGN | W. MATHES | DATE | 05/06/06 |
| CHECK | A. BROWN | DATE | 05/06/06 |
| APPR | A. W. MASSIE | DATE | 05/06/06 |
| REV | | DATE | |

VERIFIED SCALE
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 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



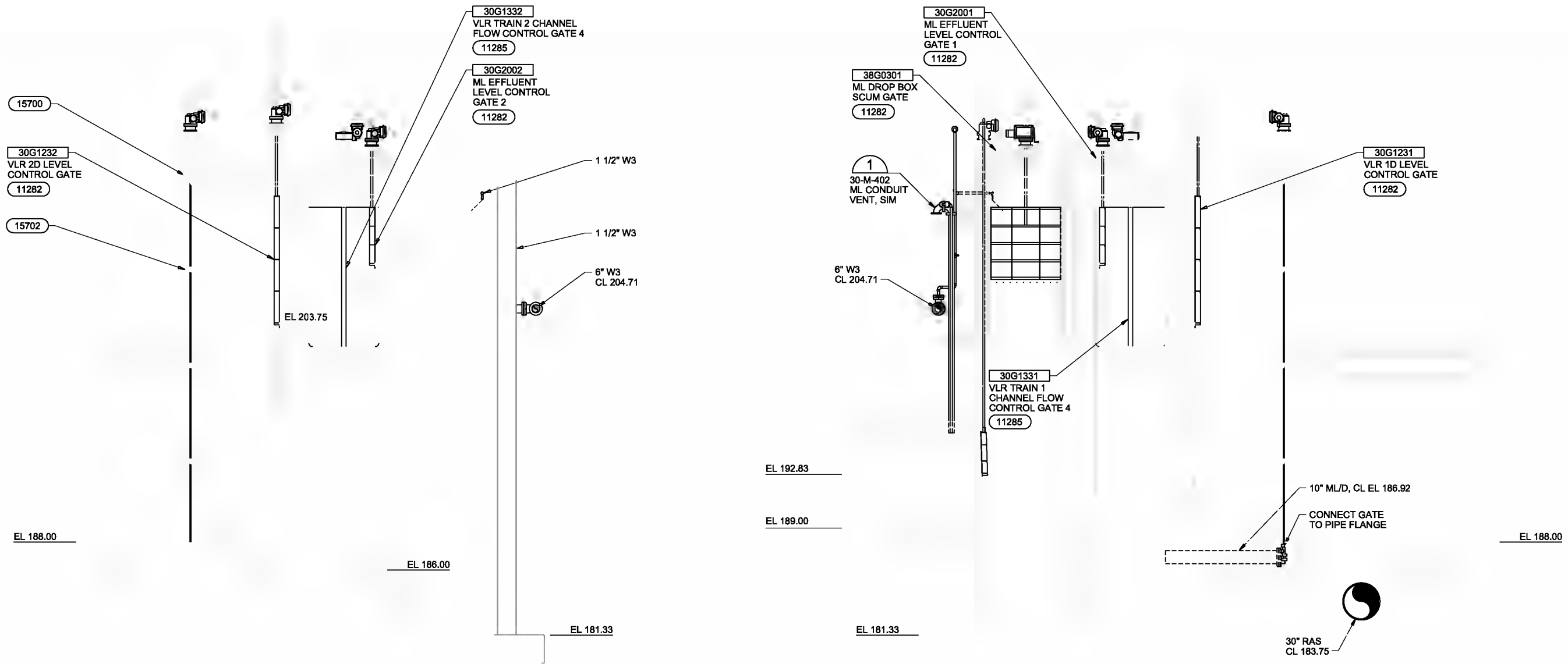
CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

VERTICAL LOOP REACTORS
MECHANICAL SECTION

| | |
|-------|-------------|
| SHEET | 329 |
| DWG | 30-M-206 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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SECTION H
1/4"=1'-0"
30-M-120
30-M-130
30-M-140
30-M-141

SECTION J
1/4"=1'-0"
30-M-120
30-M-130
30-M-140
30-M-141

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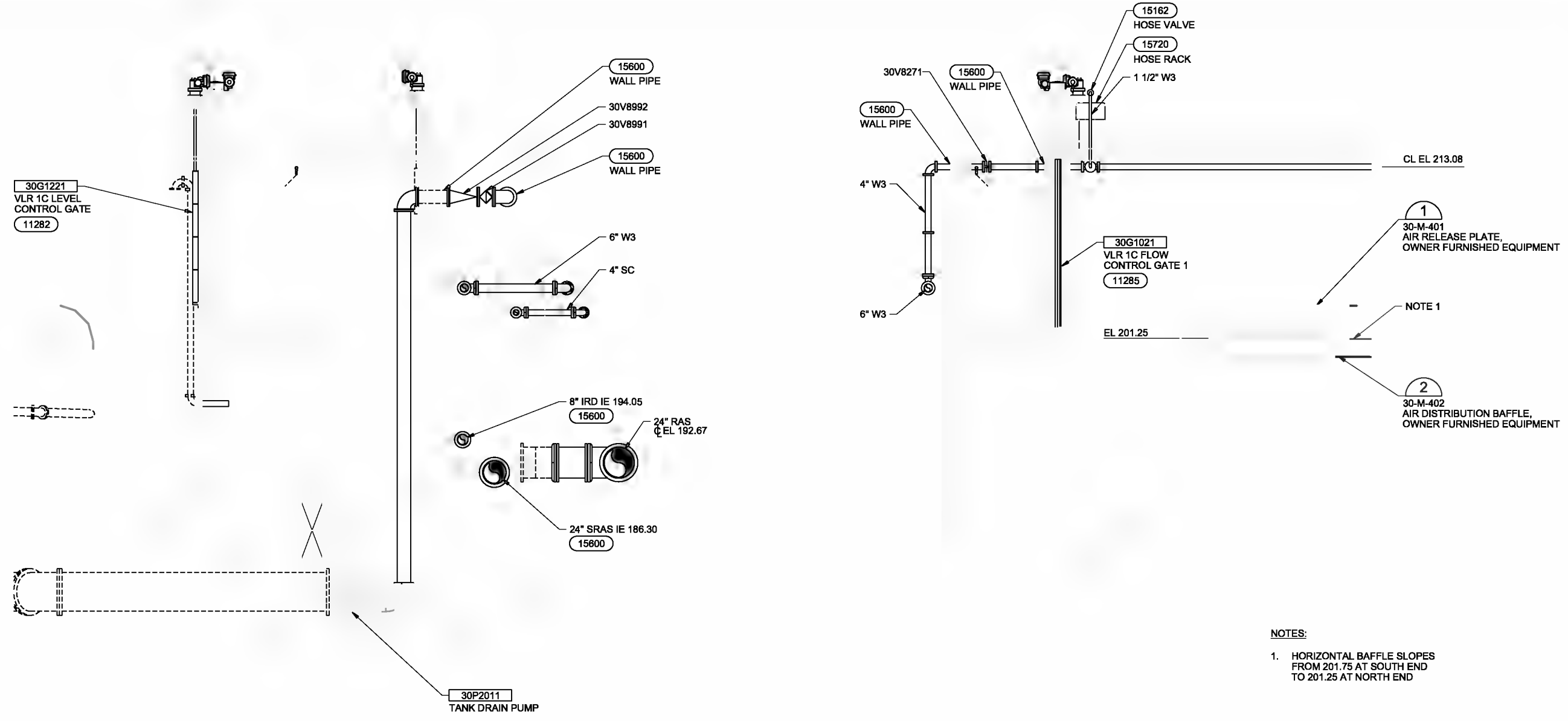
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|--|------------------------|------------------|-------------------|------------------|------------|
| DESIGNED BY M. MATHER | CHECKED BY A. BROWN | DATE 05/06/06 | SCALE AS SHOWN | DATE 05/19/06 | BY APVD |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) | | | | | |

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CITY OF ALBANY
SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

| | |
|---|-------------|
| VERTICAL LOOP REACTORS MECHANICAL SECTIONS | |
| SHEET | 330 |
| DWG | 30-M-207 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |



NOTES:
 1. HORIZONTAL BAFFLE SLOPES FROM 201.75 AT SOUTH END TO 201.25 AT NORTH END

SECTION **K**
 1/4"=1'-0"
 30-M-120
 30-M-130
 30-M-140
 30-M-141

SECTION **L**
 1/4"=1'-0"
 30-M-120
 30-M-130
 30-M-140

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| | | | | |
|-------------|------|----------|----|------|
| DESIGNED BY | DATE | REVISION | BY | DATE |
| | | | | |

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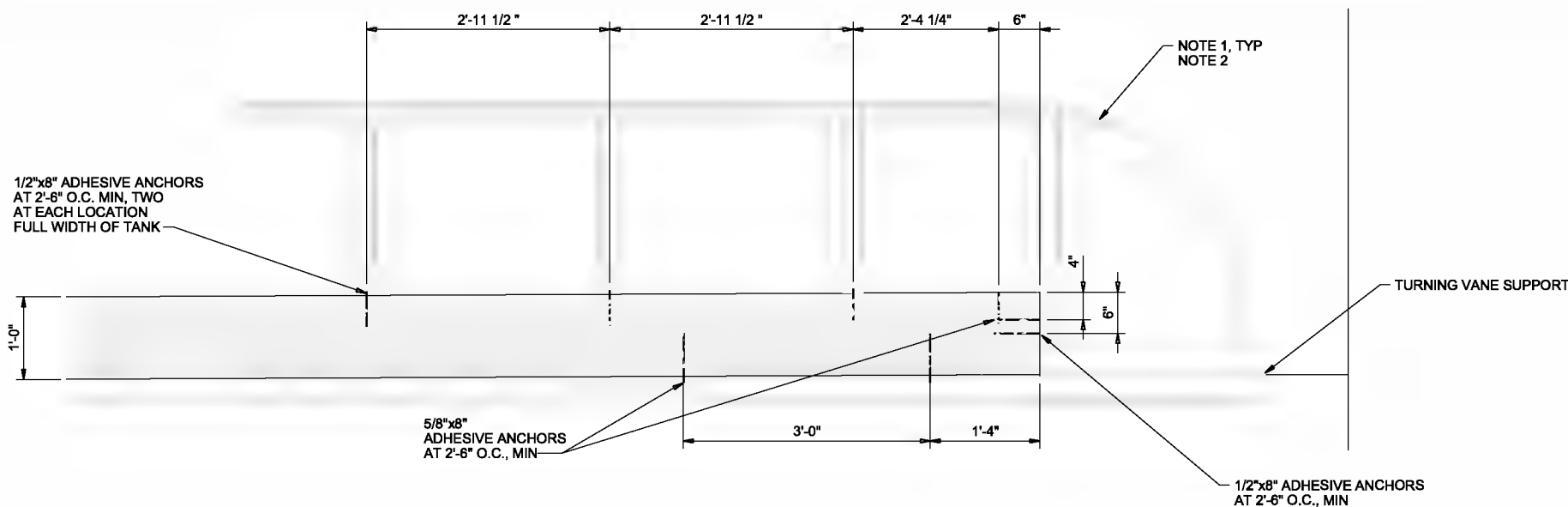


CITY OF ALBANY
 SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

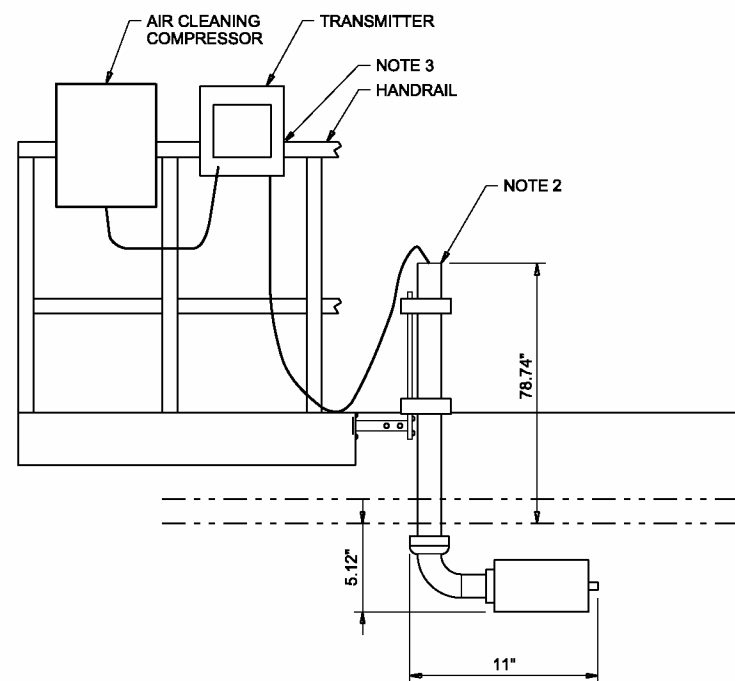
VERTICAL LOOP REACTORS
 MECHANICAL SECTIONS

| | |
|-------|-------------|
| SHEET | 331 |
| DWG | 30-M-208 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

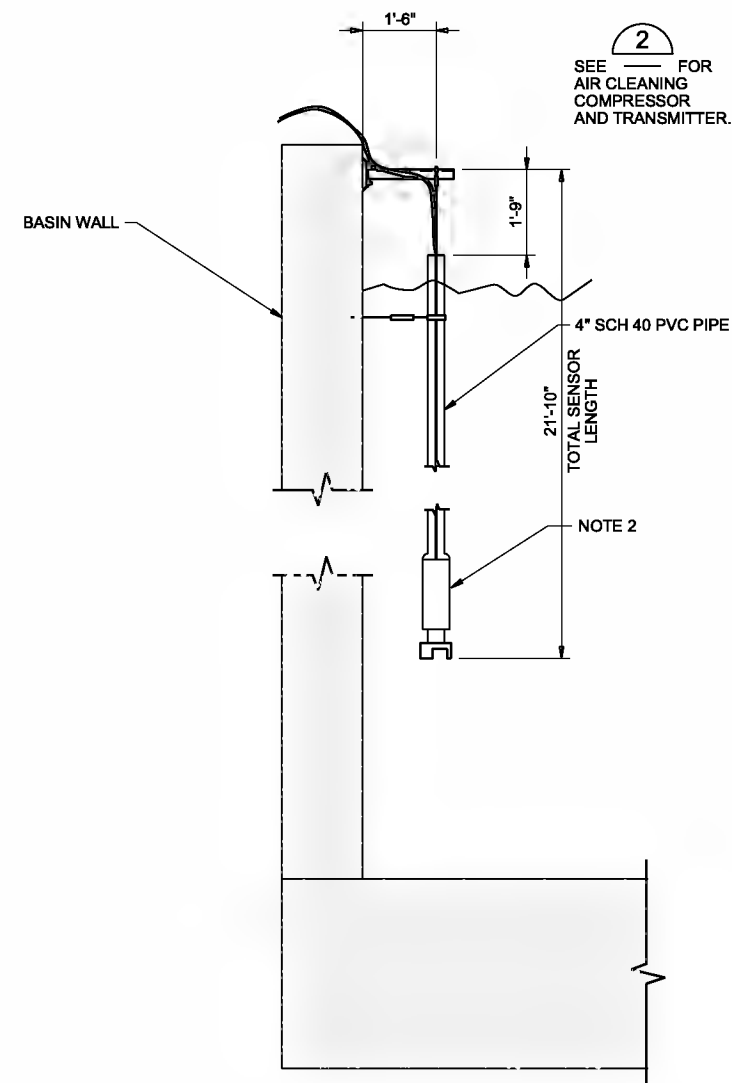
REUSE OF DOCUMENTS: CH2M HILL



AIR RELEASE PLATE 1
 NTS 30-M-130 30-M-208



MLSS PROBE MOUNTING DETAIL 2
 NTS 30-M-140 30-M-141



ORP AND PH PROBE MOUNTING DETAIL 3
 NTS 30-M-140

- NOTES:**
1. VERIFY ALL DIMENSIONS AND ANCHOR BOLT SIZES AND LOCATIONS WITH SUPPLIER
 2. OWNER FURNISHED EQUIPMENT
 3. MOUNT TRANSMITTER, AND AIR CLEANING COMPRESSOR ON HANDRAIL.

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| | | | | | |
|--------|------------|----------|----|--------|--|
| DESIGN | W. MATHEIS | | | | |
| DR | AS-BUILT | | | | |
| CHK | AS-BUILT | 01/20/06 | | | |
| APPROV | C. MASSIE | | | | |
| NO. | DATE | REVISION | BY | APPROV | |

VERIFY SCALE
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CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

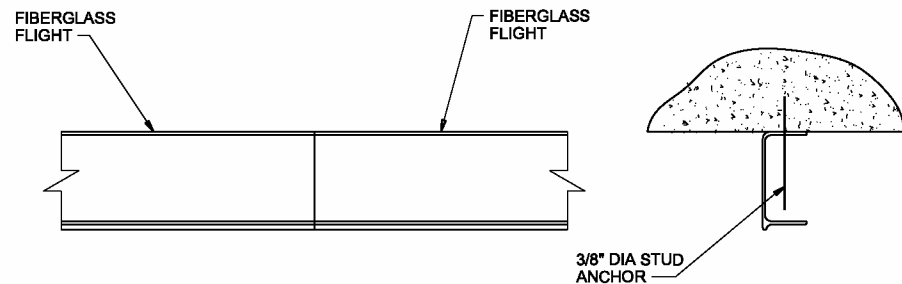
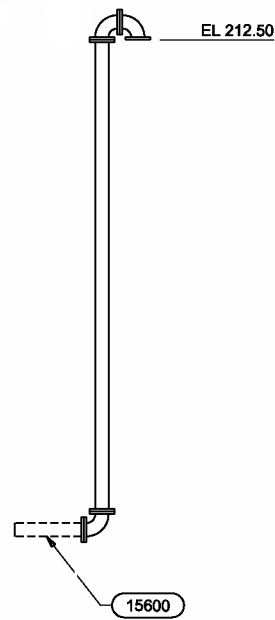
VERTICAL LOOP REACTORS
 MECHANICAL
 DETAILS

| | |
|-------|-------------|
| SHEET | 332 |
| DWG | 30-M-401 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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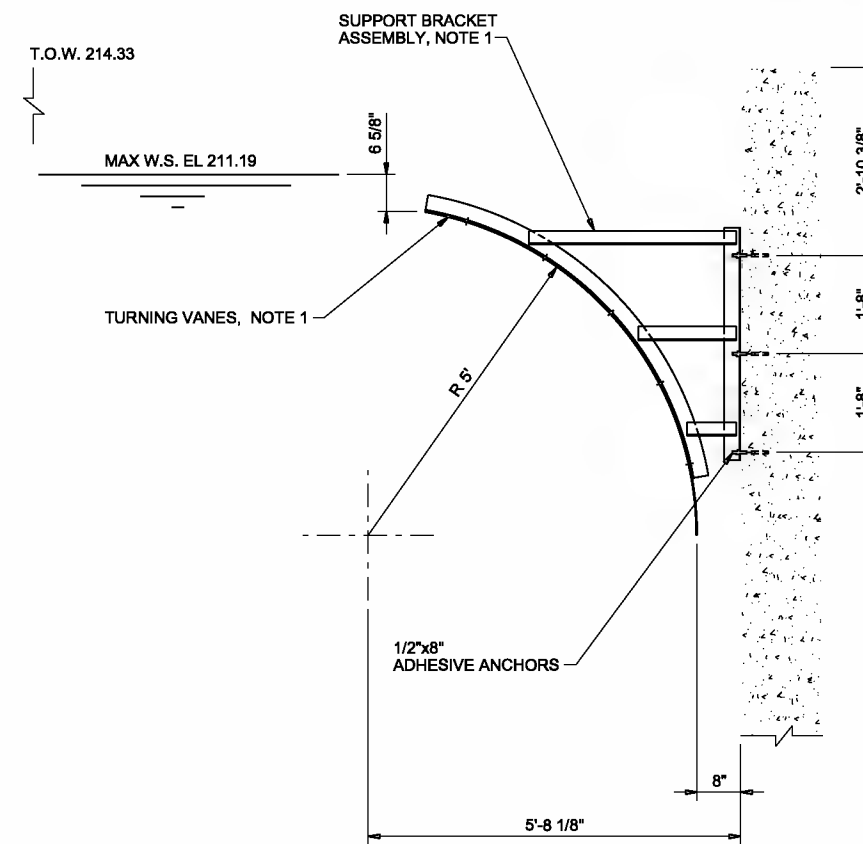
NOTES:

1. OWNER FURNISHED EQUIPMENT
2. VERIFY ALL DIMENSIONS, ANCHOR BOLT SIZES, AND LOCATIONS WITH SUPPLIER



AIR DISTRIBUTION BAFFLE DETAIL 2

NTS 30-M-130 30-M-208

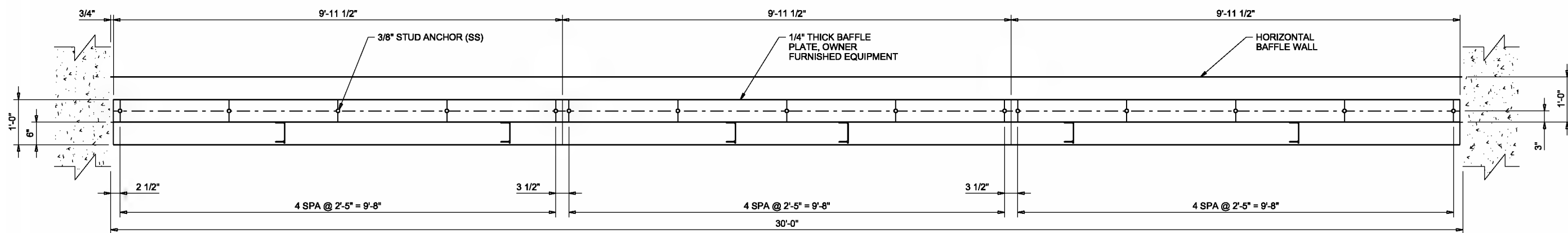


TURNING VANE DETAIL 3

NTS 30-M-201

TYPICAL CONDUIT VENT DETAIL 1

NTS 30-M-120 30-M-204
30-M-140 30-M-205
30-M-141 30-M-206
30-M-201 30-M-207
30-M-203



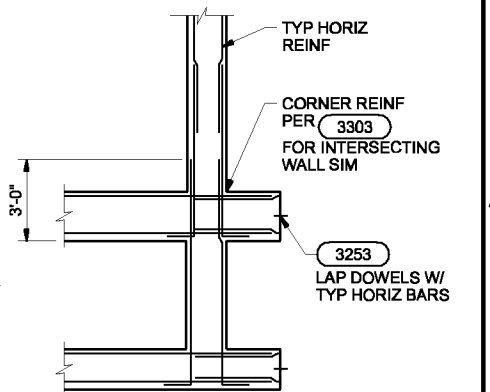
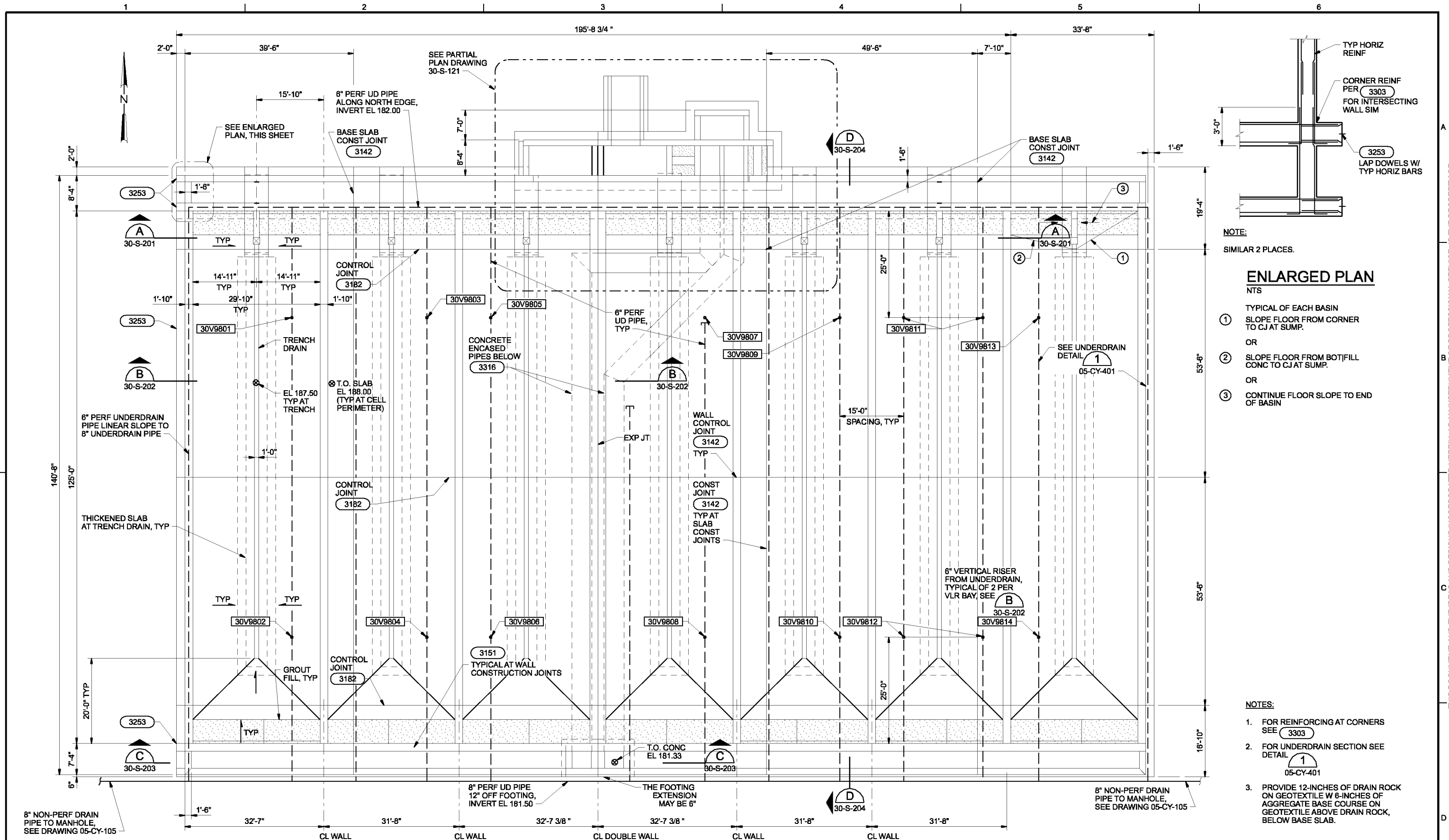
BACKFLOW BAFFLE DETAIL 4

NTS 30-M-130 30-M-201

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| | | | | | | | |
|---|--|-----|-----|--|--|---|-------------------|
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | CRO | KEG | | CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENT PROJECT WWTP-03-01 LINN COUNTY, OREGON | VERTICAL LOOP REACTORS MECHANICAL DETAILS | SHEET: 333 |
| | | | | | | | DWG: 30-M-402 |
| | | | | | | | DATE: MAY 19 2006 |
| | | | | | | | PROJ: 326918 |

REUSE OF DOCUMENTS: CH2M HILL



- NOTE:
SIMILAR 2 PLACES.
- ### ENLARGED PLAN
- NTS
- TYPICAL OF EACH BASIN
- ① SLOPE FLOOR FROM CORNER TO CJ AT SUMP.
 - OR
 - ② SLOPE FLOOR FROM BOT/FILL CONC TO CJ AT SUMP.
 - OR
 - ③ CONTINUE FLOOR SLOPE TO END OF BASIN

- NOTES:
- 1. FOR REINFORCING AT CORNERS SEE 3303
 - 2. FOR UNDERDRAIN SECTION SEE DETAIL 1 05-CY-401
 - 3. PROVIDE 12-INCHES OF DRAIN ROCK ON GEOTEXTILE W 8-INCHES OF AGGREGATE BASE COURSE ON GEOTEXTILE ABOVE DRAIN ROCK, BELOW BASE SLAB.

FOUNDATION PLAN

3/32"=1'-0"

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| | | | | | | | |
|---|-------------|-----|------|----------|-----|-----|------|
| DSGN | WW KOHLER | NO. | DATE | REVISION | CRO | RAH | APVD |
| DR | KJ DAVIS | | | | | | |
| CHK | MJ MERKLEIN | | | | | | |
| APVD | CW MASSIE | | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | | | | | | |

VERIFY SCALE
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0 1"
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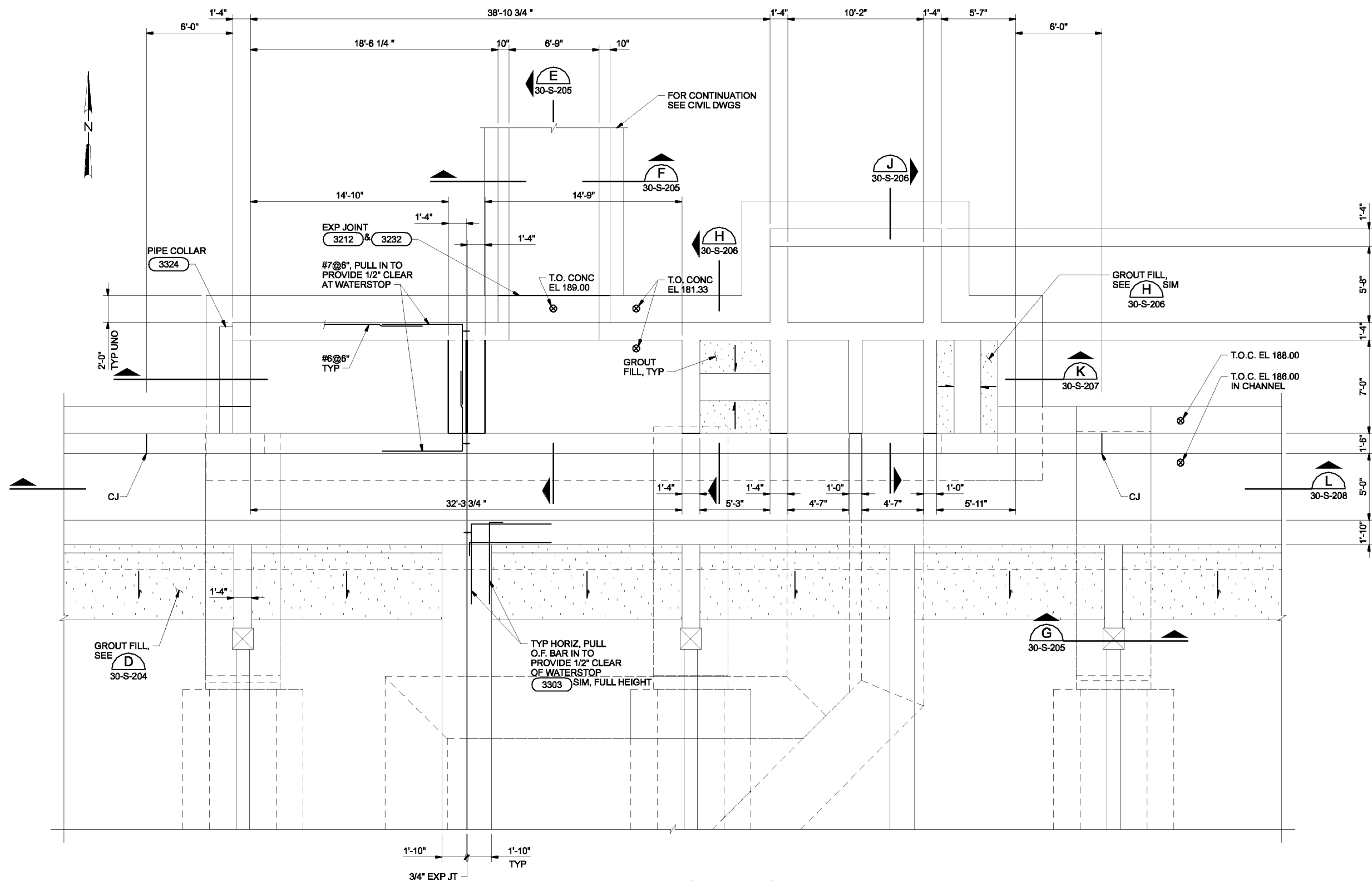


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

VERTICAL LOOP REACTORS
STRUCTURAL
FOUNDATION PLAN

| | |
|-------|-------------|
| SHEET | 334 |
| DWG | 30-S-120 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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PARTIAL FOUNDATION PLAN
1/4"=1'-0"

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| | | | | | | |
|--|--------------|-----|------|----------|----|------|
| DSGN | WV KOHLER | NO. | DATE | REVISION | BY | APVD |
| DR | HF JOCHIMSEN | | | | | |
| CHK | MJ MERKLEIN | | | | | |
| APVD | CW MASSIE | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) | | CRO | RAH | | | |
| AS-BUILT | | | | | | |

VERIFY SCALE
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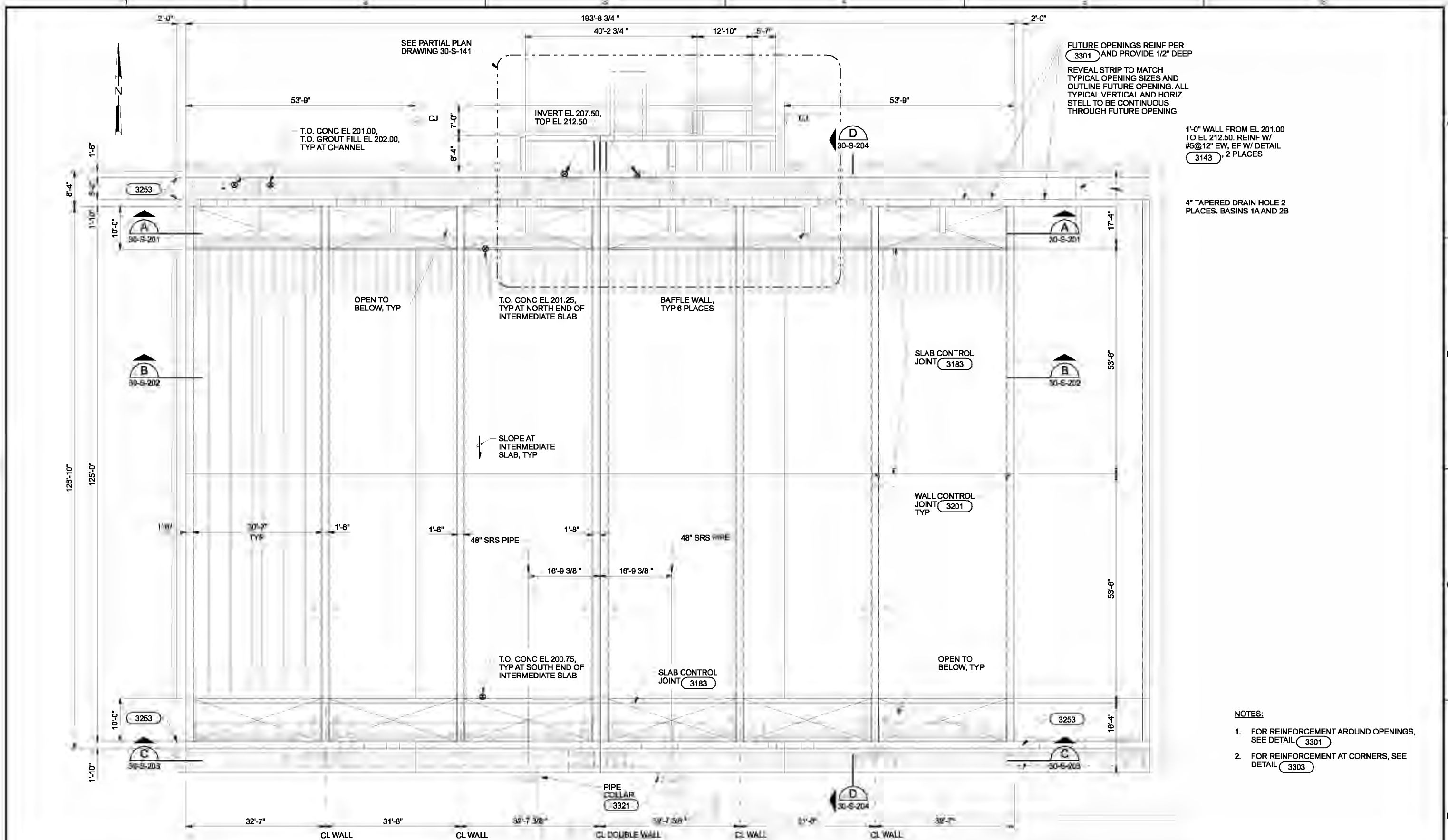


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

VERTICAL LOOP REACTORS
STRUCTURAL
PARTIAL FOUNDATION PLAN

| | |
|-------|-------------|
| SHEET | 335 |
| DWG | 30-S-121 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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FUTURE OPENINGS REINF PER 3301 AND PROVIDE 1/2\" DEEP
 REVEAL STRIP TO MATCH TYPICAL OPENING SIZES AND OUTLINE FUTURE OPENING. ALL TYPICAL VERTICAL AND HORIZ STEEL TO BE CONTINUOUS THROUGH FUTURE OPENING

1'-0\" WALL FROM EL 201.00 TO EL 212.50. REINF W/ #5@12\" EW, EF W/ DETAIL 3143, 2 PLACES

4\" TAPERED DRAIN HOLE 2 PLACES. BASINS 1A AND 2B

- NOTES:
- FOR REINFORCEMENT AROUND OPENINGS, SEE DETAIL 3301
 - FOR REINFORCEMENT AT CORNERS, SEE DETAIL 3303

INTERMEDIATE PLAN
 3/32\"=1'-0\"

| | | | | | |
|------|-------------|--|----------------------|--------------------|---|
| DSGN | VW KOHLER | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | NO. DATE REVISION | CRO RAH BY APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | KJ DAVIS | | | | |
| CHK | MJ MERKLEIN | | | | |
| APVD | CW MASSIE | | | | |
| | | | | | |

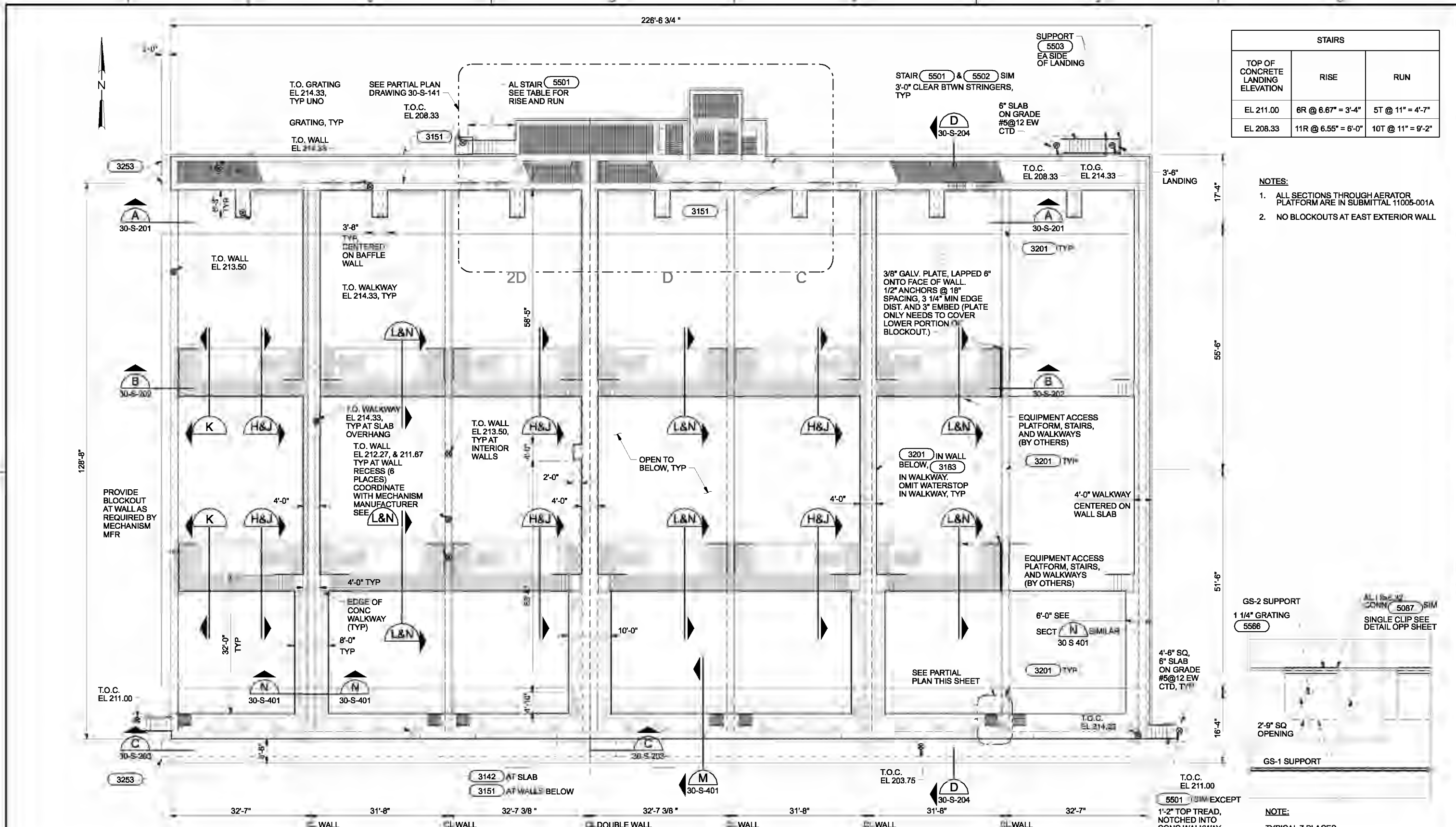


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

VERTICAL LOOP REACTORS
STRUCTURAL INTERMEDIATE LEVEL PLAN

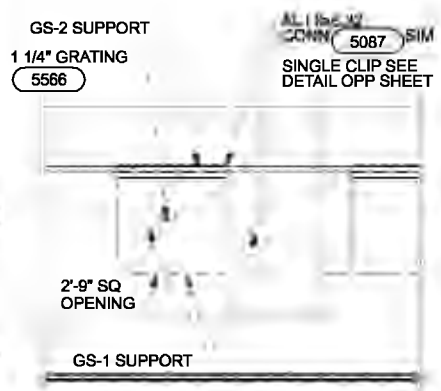
| | |
|-------|-------------|
| SHEET | 336 |
| DWG | 30-S-130 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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| STAIRS | | |
|-----------------------------------|---------------------|-------------------|
| TOP OF CONCRETE LANDING ELEVATION | RISE | RUN |
| EL 211.00 | 6R @ 6.67" = 3'-4" | 5T @ 11" = 4'-7" |
| EL 208.33 | 11R @ 6.55" = 6'-0" | 10T @ 11" = 9'-2" |

- NOTES:**
- ALL SECTIONS THROUGH AERATOR PLATFORM ARE IN SUBMITTAL 11005-001A
 - NO BLOCKOUTS AT EAST EXTERIOR WALL

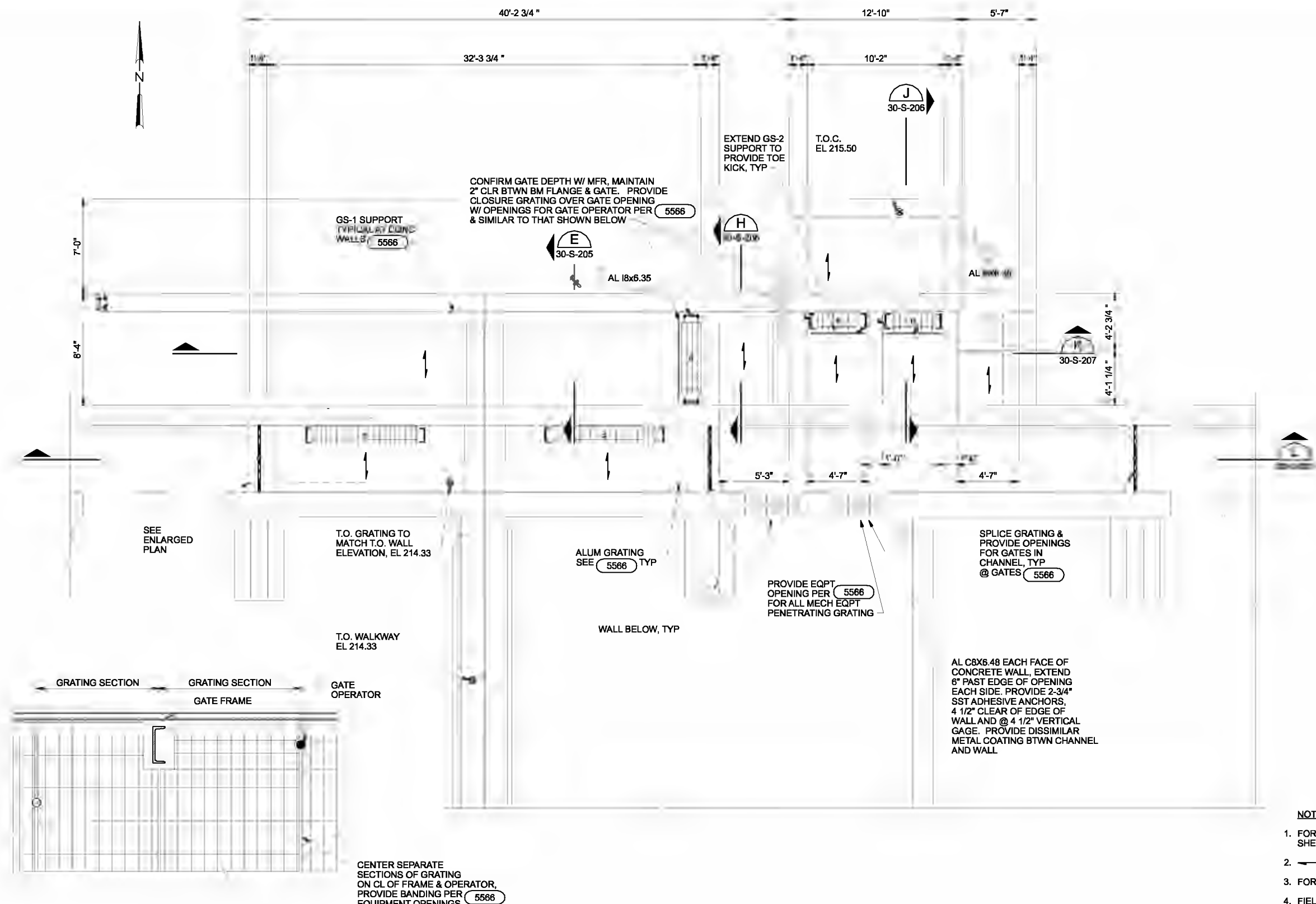


TOP PLAN
3/32"=1'-0"

PARTIAL PLAN
3/8"=1'-0"

| | | | | | | | | | | | | | |
|-------------------|----------------|--------------------|-------------------|-----|------------------|----------|------------|------|--|--|---|--|--|
| DSGN VW KOHLER | DR KJ DAVIS | CHK MJ MERKLEIN | APVD CW MASSIE | NO. | DATE 01/20/10 | REVISION | CRO RAH | APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0" = 1' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | | CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENTS PROJECT WWTP-03-01 LINN COUNTY, OREGON | VERTICAL LOOP REACTORS STRUCTURAL UPPER LEVEL PLAN | SHEET 337 DWG 30-S-140 DATE MAY 19 2006 PROJ 326918 |
|-------------------|----------------|--------------------|-------------------|-----|------------------|----------|------------|------|--|--|---|--|--|

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ENLARGED PLAN
NTS

PARTIAL TOP PLAN
1/4"=1'-0"

- NOTES:**
1. FOR GENERAL STRUCTURAL NOTES, SEE SHEETS 01-G-09 AND 01-G-10.
 2. = GRATING SPAN DIRECTION
 3. FOR REINFORCING AT CORNERS, SEE 3303
 4. FIELD LOCATE ALL ALUMINUM 18x6.35 FRAMING TO PROVIDE NO MORE THAN 2" CLEAR BETWEEN GATE FRAMES AND BEAMS. EXTEND GS-2 GRATING SUPPORT TO PROVIDE TOE KICK, TYPICAL.

| | | | | | | | | | |
|------|--------------|----------|------|----------|----|------|--|--|--|
| DSGN | VW KOHLER | | | | | | | | |
| DR | HF JOCHIMSEN | | | | | | | | |
| CHK | MJ MERKLEIN | 01/20/10 | | | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | | | |

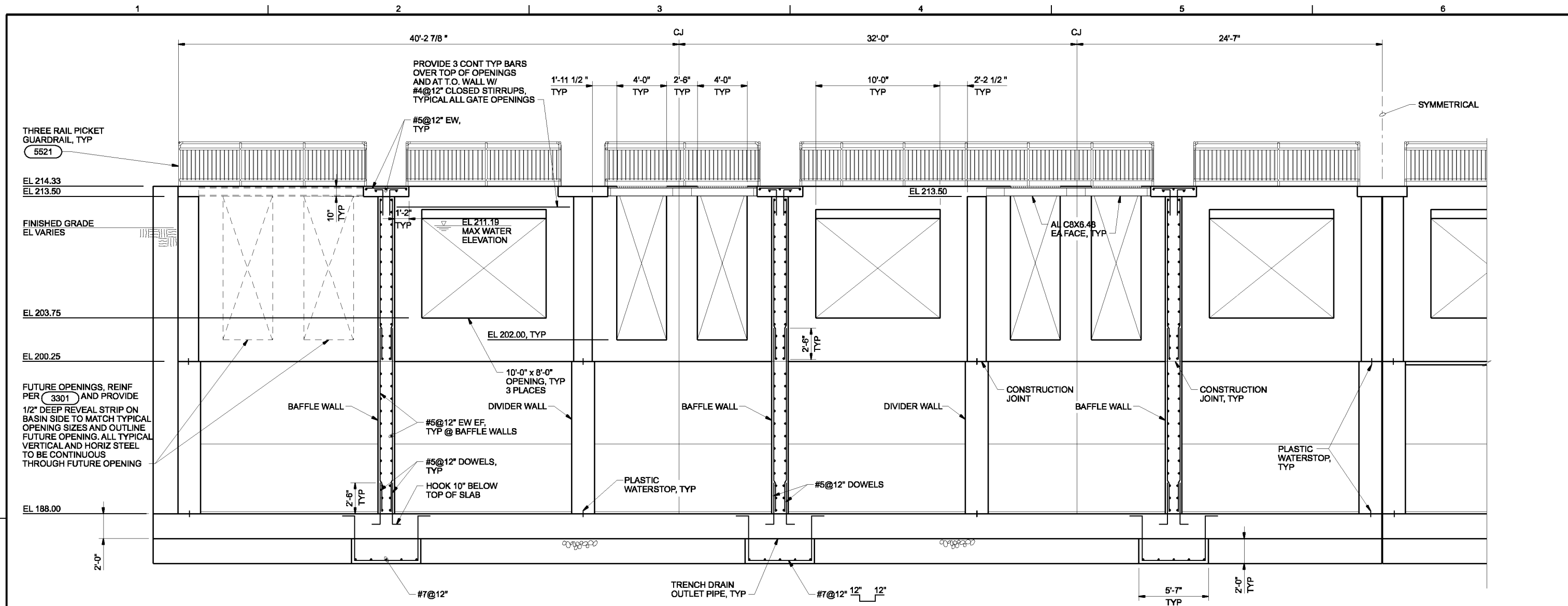


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

VERTICAL LOOP REACTORS
STRUCTURAL PARTIAL PLAN

| | |
|-------|-------------|
| SHEET | 338 |
| DWG | 30-S-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:
- FOR BASE SLAB AND DIVIDER WALL REINFORCEMENT, SEE SECTION **B** 30-S-202
 - FOR REINFORCEMENT AROUND OPENINGS, SEE 3301

SECTION A
1/4"=1'-0"
30-S-120
30-S-130
30-S-140

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| | | | | | | |
|---|-------------|-----|------|----------|----|------|
| DSGN | WW KOHLER | NO. | DATE | REVISION | BY | APVD |
| DR | KJ DAVIS | | | | | |
| CHK | MJ MERKLEIN | | | | | |
| APVD | CW MASSIE | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | CRO | RAH | | | |

VERIFY SCALE
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0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

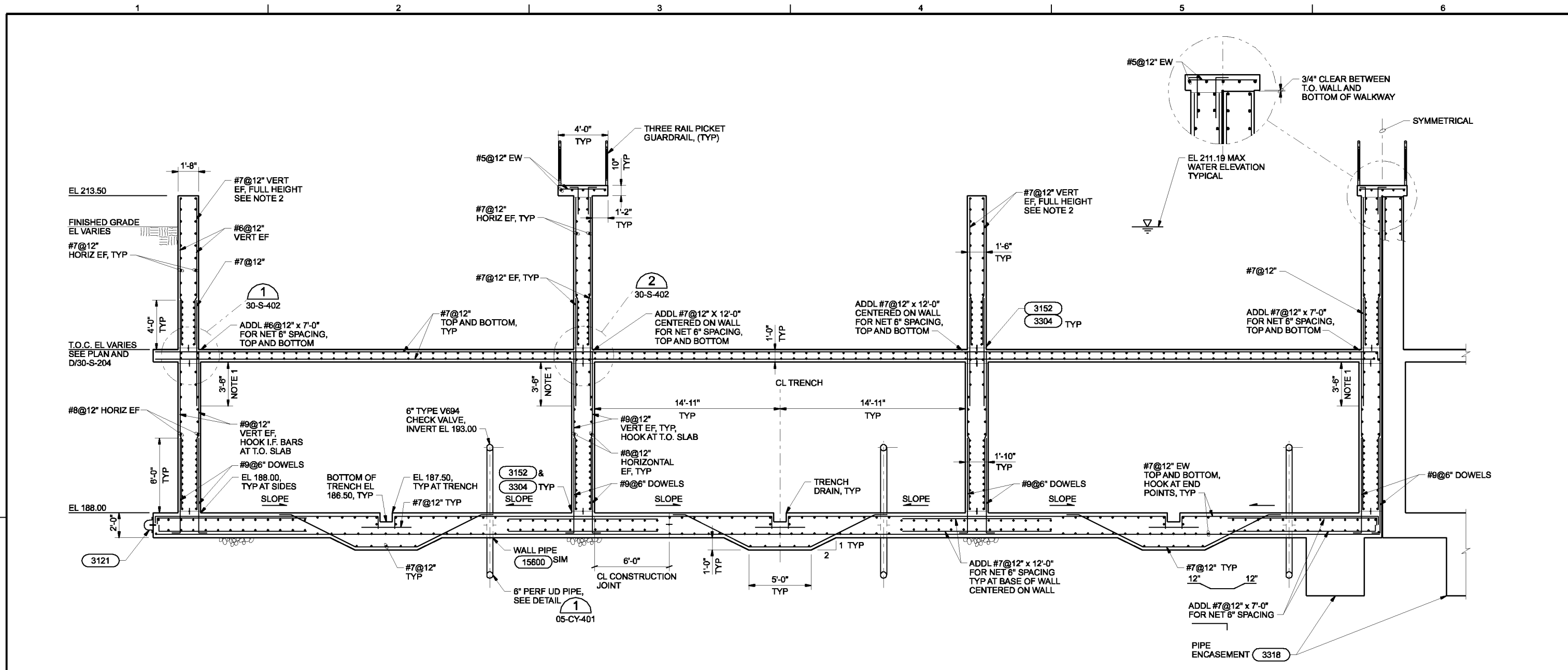


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

VERTICAL LOOP REACTORS
STRUCTURAL SECTION

| | |
|-------|-------------|
| SHEET | 339 |
| DWG | 30-S-201 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOTE:

1. REVISION TO 3'-6" BASED UPON CONTRACTOR'S REQUEST TO POUR WALLS FULL HEIGHT. SEE RESPONSE TO RFI 64.1 FOR THIS REVISION
2. CONTRACTOR'S OPTION TO PLACE #7 FULL HEIGHT FROM INTERMEDIATE SLAB TO TOP OF WALLS. THIS ELIMINATES THE LAP ABOVE THE INTERMEDIATE SLAB. APPLIES AT THE INTERIOR FACE OF THE EXTERIOR WALLS AND AT BOTH FACES OF THE INTERIOR WALLS

SECTION B

1/4"=1'-0" 30-S-120
 30-S-130
 30-S-140
 30-S-201

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY MARK J. MERKLEIN STATE OF OREGON, P.E. NO. 58,357.

| | | | | | | |
|------|-------------|-----|------|----------|----|------|
| DSGN | WW KOHLER | NO. | DATE | REVISION | BY | APVD |
| DR | KJ DAVIS | | | | | |
| CHK | MJ MERKLEIN | | | | | |
| APVD | CW MASSIE | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
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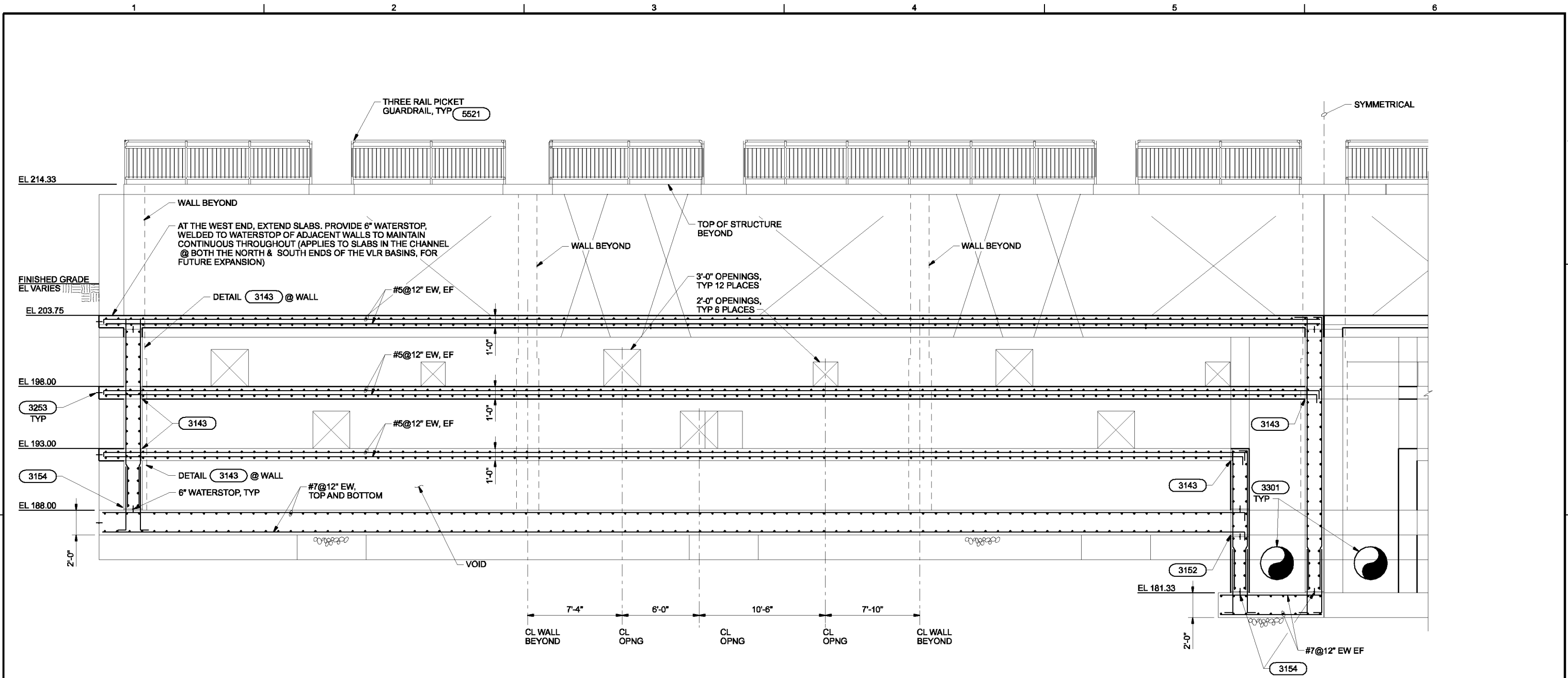


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

VERTICAL LOOP REACTORS
STRUCTURAL SECTION

| | |
|-------|-------------|
| SHEET | 340 |
| DWG | 30-S-202 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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SECTION C
1/4"=1'-0"
30-S-120
30-S-130
30-S-140

- NOTES:**
- FOR GENERAL STRUCTURAL NOTES, SEE SHEETS 01-G-09 AND 01-G-010
 - FOR REINFORCING AROUND OPENINGS, SEE 3301

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| | | | | | | | | | |
|------|-------------|----------|------|----------|----|------|-----|-----|--|
| DSGN | WW KOHLER | | | | | | | | |
| DR | KJ DAVIS | | | | | | | | |
| CHK | MJ MERKLEIN | 01/20/10 | | | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | CRO | RAH | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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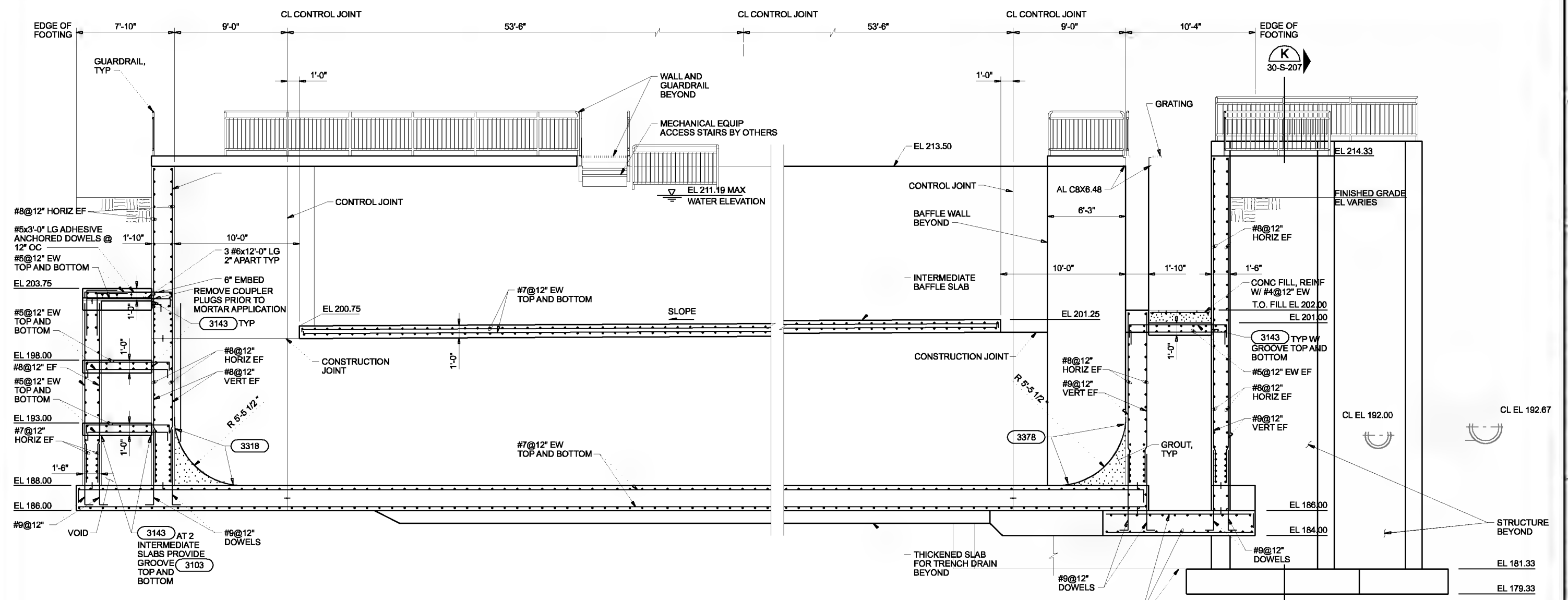


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

VERTICAL LOOP REACTORS
STRUCTURAL SECTION

| | |
|-------|-------------|
| SHEET | 341 |
| DWG | 30-S-203 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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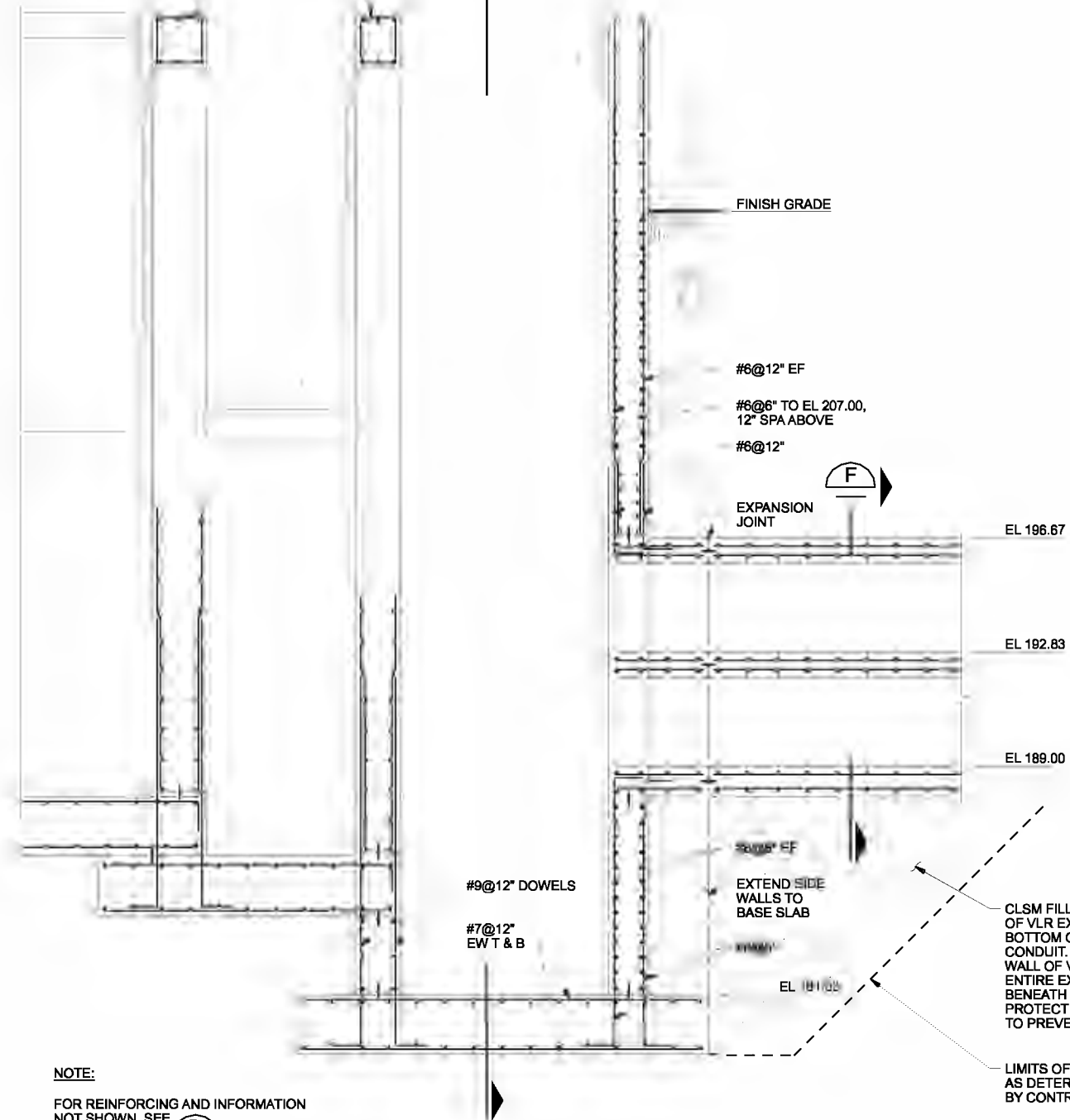
SECTION D
1/4"=1'-0" 30-S-120 30-S-130 30-S-140

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|--------------------|----------|--|---------|---|--|---|---|--------------|
| DSGN WW KOHLER | | | | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | | CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENTS PROJECT WWTP-03-01 LINN COUNTY, OREGON | VERTICAL LOOP REACTORS STRUCTURAL SECTION | SHEET 342 |
| DR KJ DAVIS | | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | CRO RAH | DWG 30-S-204 | | | | |
| CHK MJ MERKLEIN | 01/20/10 | REVISION | BY APVD | DATE MAY 19 2006 | | | | |
| APVD CW MASSIE | NO. DATE | | | PROJ 326918 | | | | |

PROVIDE 3 TYP HORIZ
BARS T & B AT OPENINGS
W/ #4 STIRRUPS AT 12" OC,
TYP ALL GATE OPENINGS

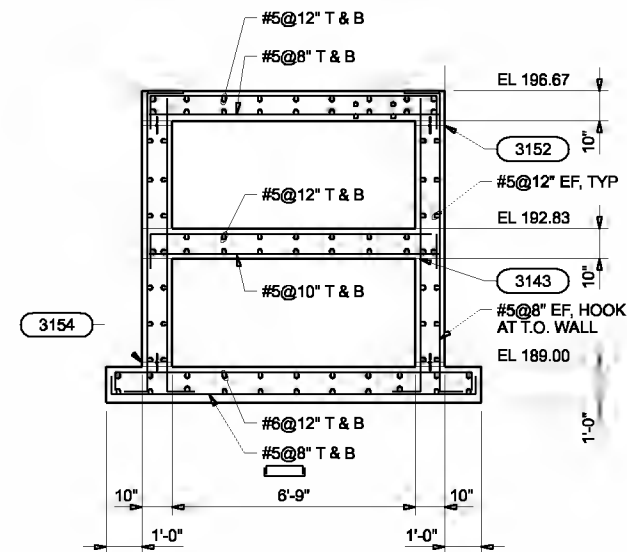
K
30-S-207



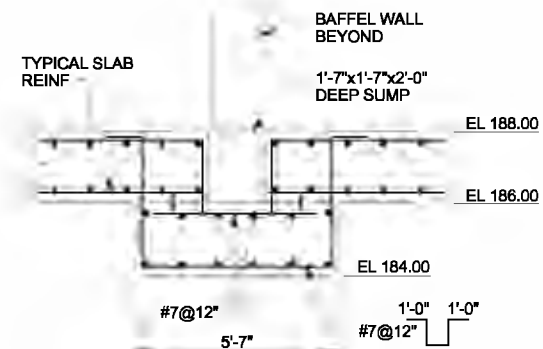
SECTION E
3/8"=1'-0"
30-S-121
30-S-141

NOTE:
FOR REINFORCING AND INFORMATION
NOT SHOWN, SEE

D
30-S-204



SECTION F
3/8"=1'-0"
30-S-121
30-S-141



SECTION G
3/8"=1'-0"
30-S-120
30-S-121

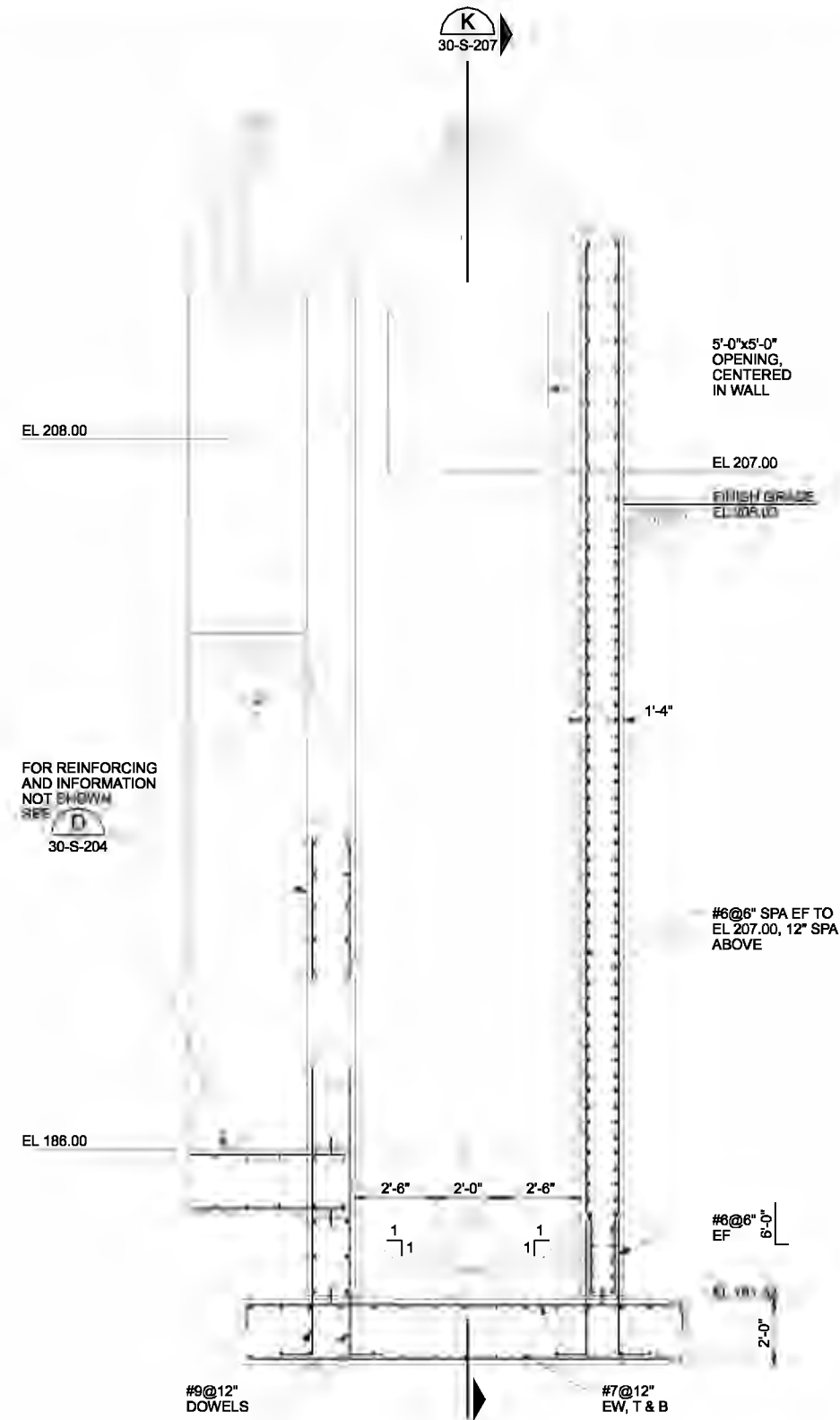
CH2MHILL **CAROLLO**
engineers

CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

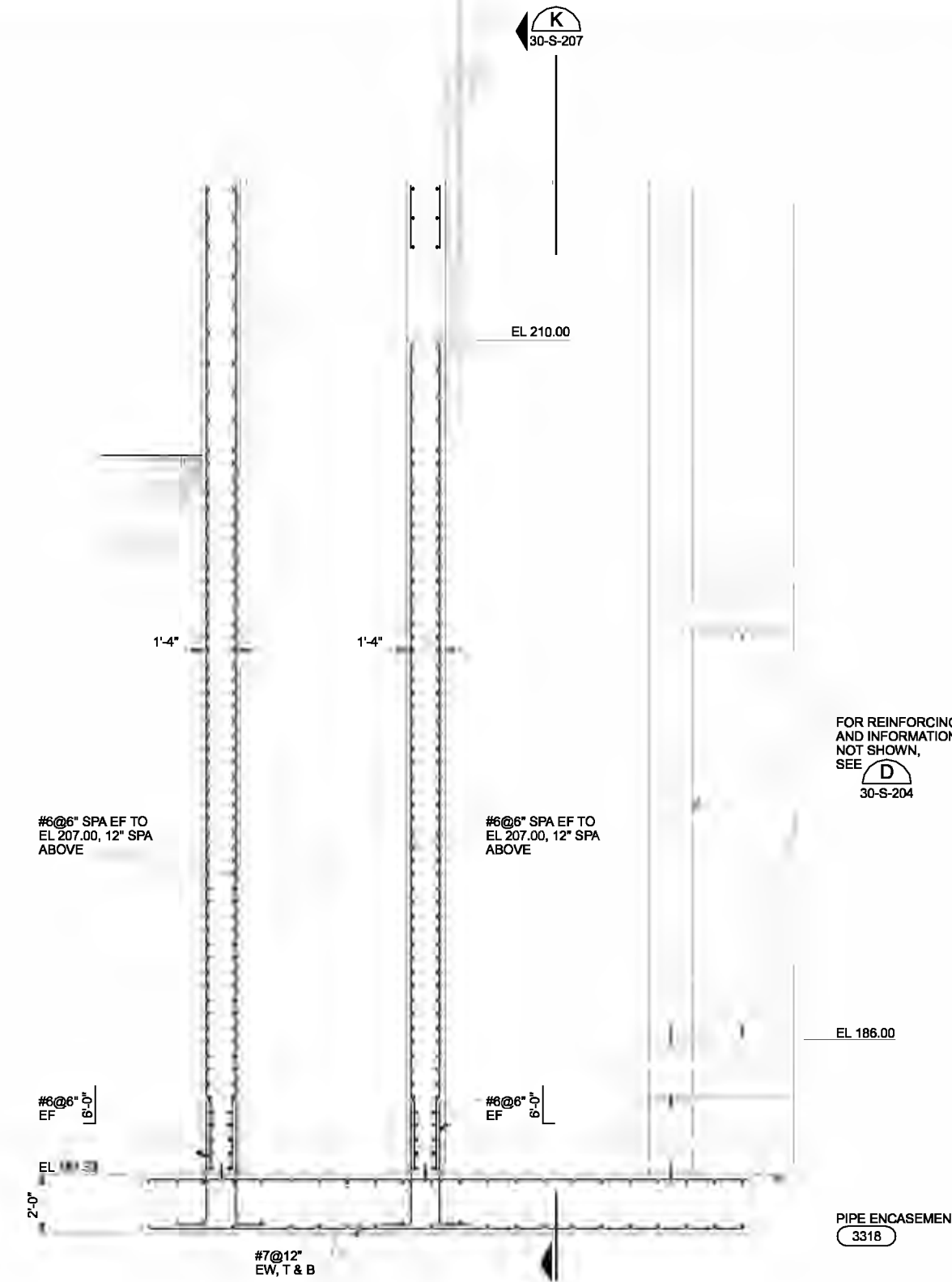
VERTICAL LOOP REACTORS
STRUCTURAL
SECTIONS

| | |
|-------|-------------|
| SHEET | 343 |
| DWG | 30-S-205 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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SECTION H
3/8"=1'-0"
30-S-121
30-S-141



SECTION J
3/8"=1'-0"
30-S-121
30-S-141

FOR REINFORCING AND INFORMATION NOT SHOWN, SEE **D** 30-S-204

FOR REINFORCING AND INFORMATION NOT SHOWN, SEE **D** 30-S-204

PIPE ENCASEMENT 3318

| | | | | | | | | | |
|------|--------------|----------|------|----------|----|------|--|--|--|
| DSGN | WW KOHLER | | | | | | | | |
| DR | HF JOCHIMSEN | | | | | | | | |
| CHK | MJ MERKLEIN | 01/20/10 | | | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | | | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0" = 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

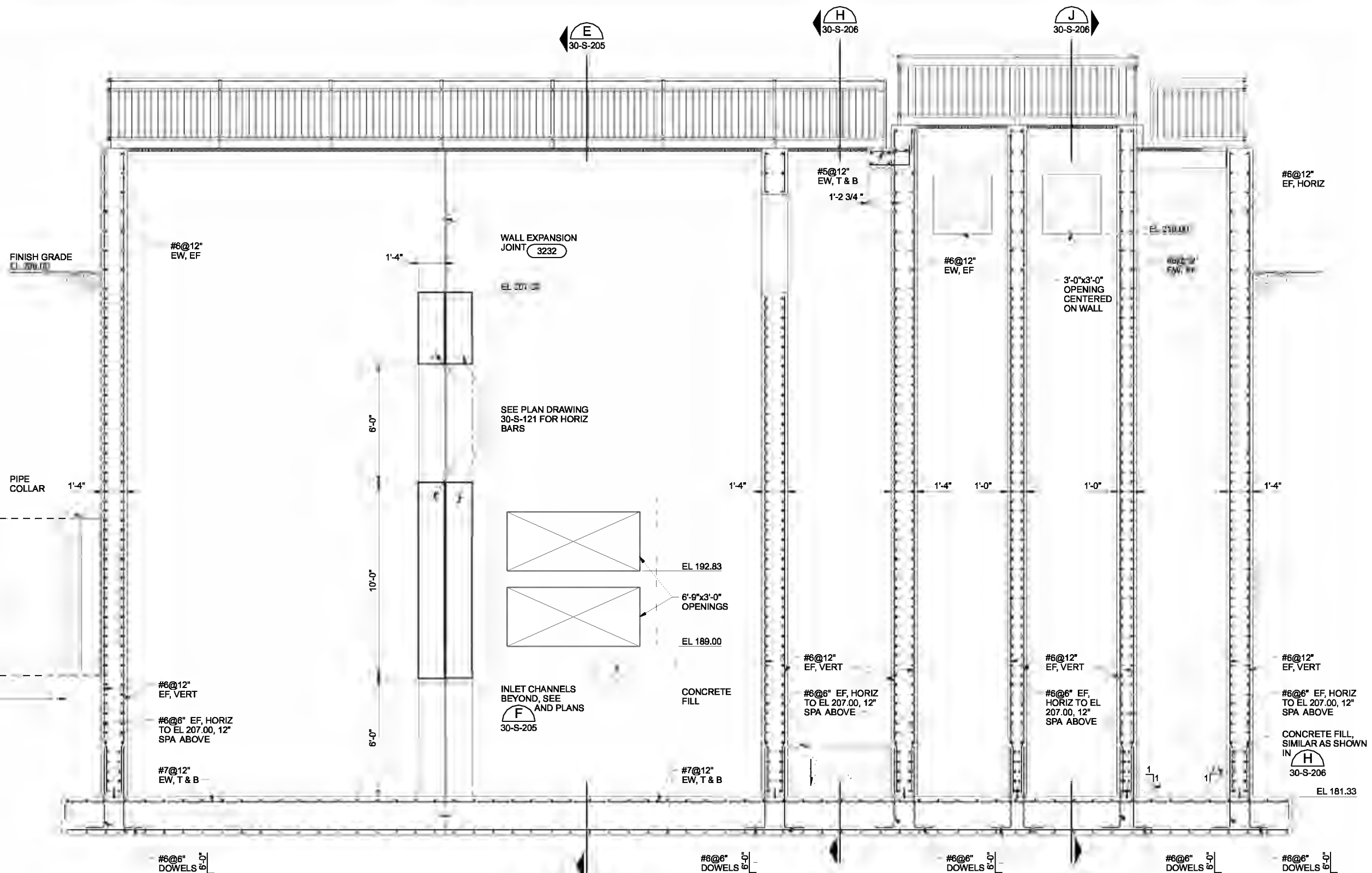


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

VERTICAL LOOP REACTORS
STRUCTURAL SECTIONS

| | |
|-------|-------------|
| SHEET | 344 |
| DWG | 30-S-206 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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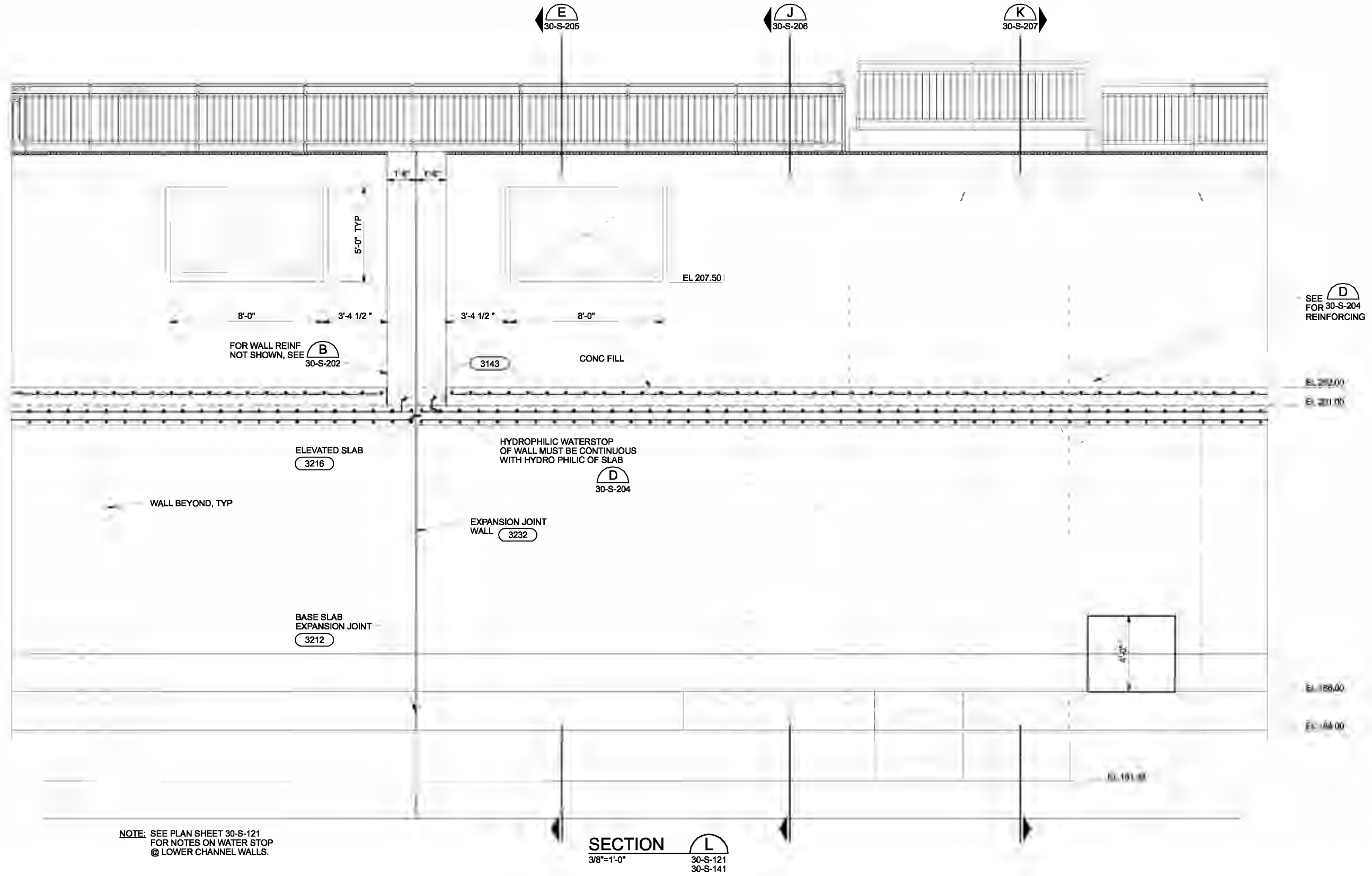
EARTH FILL, SEE SPECIFICATIONS
 1'-1/4" MINIMUM
 PIPE COLLAR 1'-4"
 SLOPE TO BE DETERMINED BY CONTRACTOR
 CONTROLLED LOW STRENGTH MATERIAL (CLSM), SEE SPECIFICATIONS
 8'-0"

NOTE:
 BACKFILL AROUND PIPE CAP AS SHOWN. CLSM SHALL EXTEND A MINIMUM OF 2 FEET BEYOND PIPE (PARALLEL DIRECTION) AND UP AGAINST ADJACENT WALL. CLSM SHALL BE VIBRATED SUFFICIENTLY TO FILL ALL VOIDS, GAPS, AND BEDDING AREA.

SECTION K
 3/8"=1'-0"
 30-S-121
 30-S-141
 30-S-204
 30-S-205

| | | | | | | | | | | |
|--------------------|----------|----------|---------|---------|------|--|--|--|--|------------------|
| DSGN WW KOHLER | NO. DATE | REVISION | BY APVD | CRO RAH | APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0" = 1' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | | CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENT PROJECT WWTP-03-01 LINN COUNTY, OREGON | VERTICAL LOOP REACTORS STRUCTURAL SECTION | SHEET 345 |
| DR HF JOCHIMSEN | | | | | | | | | | DWG 30-S-207 |
| CHK MJ MERKLEIN | | | | | | | | | | DATE MAY 19 2006 |
| APVD CW MASSIE | | | | | | | | | | PROJ 326918 |

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NOTE: SEE PLAN SHEET 30-S-121 FOR NOTES ON WATER STOP @ LOWER CHANNEL WALLS.

SECTION L
3/8"=1'-0" 30-S-121 30-S-141

| | | | | | | |
|------|--------------|-----|------|----------|----|------|
| DSGN | WW KOHLER | NO. | DATE | REVISION | BY | APVD |
| DR | HF JOCHIMSEN | | | | | |
| CHK | MJ MERKLEIN | | | | | |
| APVD | CW MASSIE | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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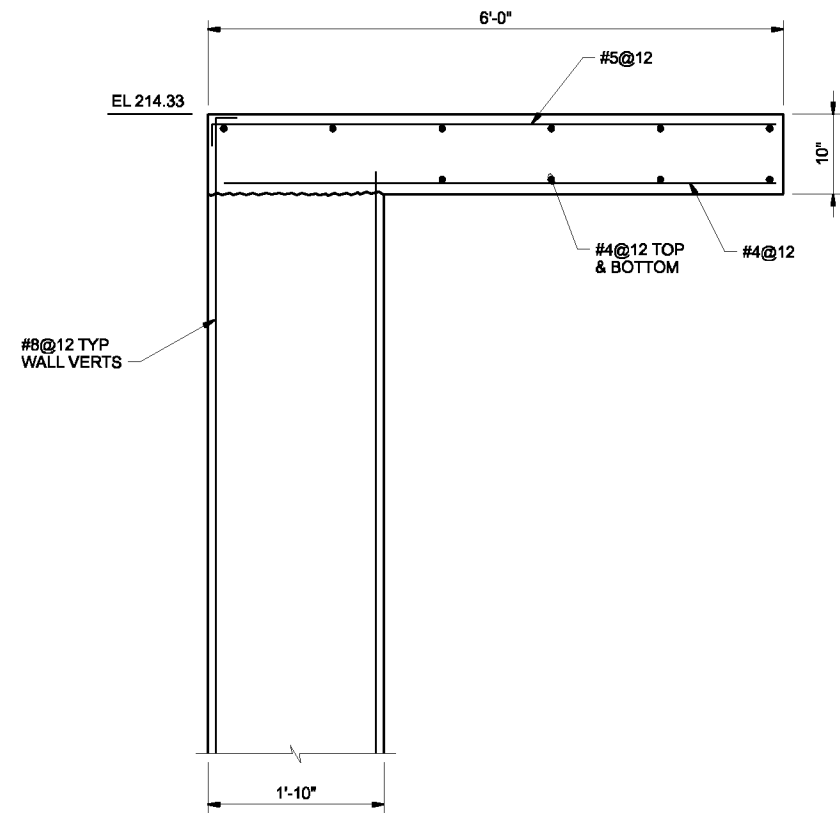


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

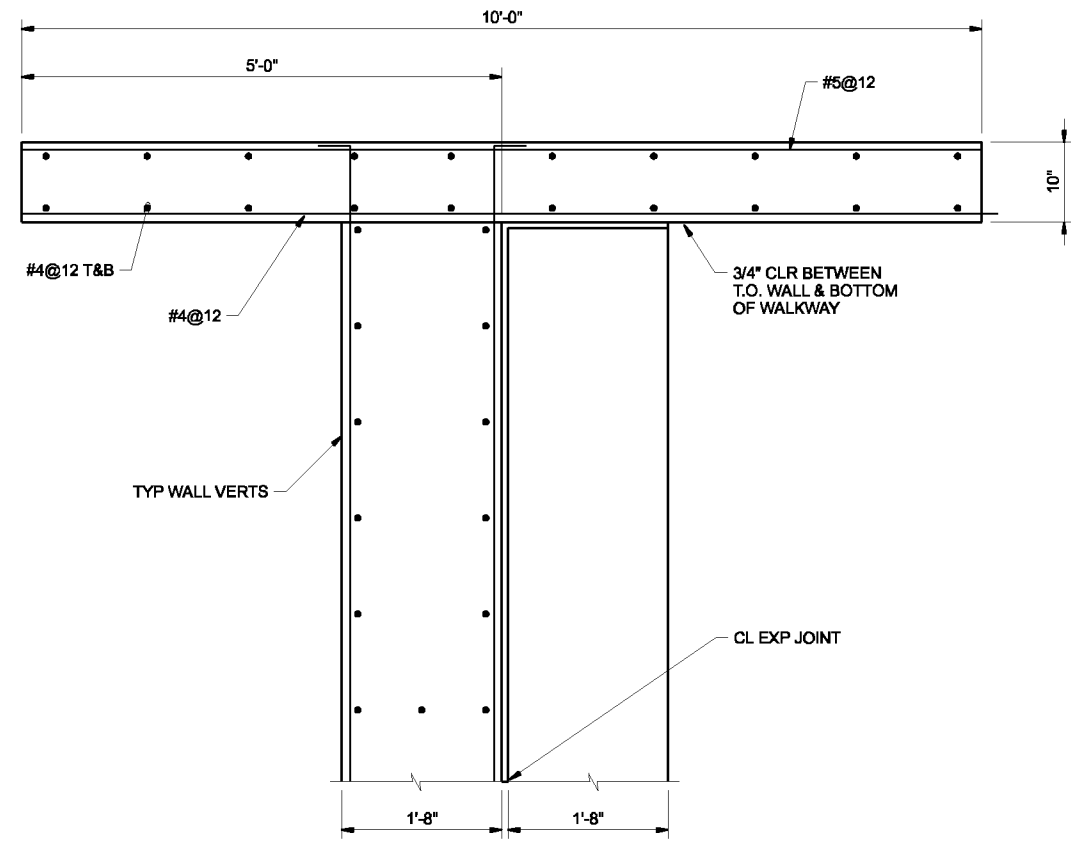
VERTICAL LOOP REACTORS
STRUCTURAL SECTION

| | |
|-------|-------------|
| SHEET | 346 |
| DWG | 30-S-208 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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SECTION **M**
1"=1'-0"



SECTION **N**
1"=1'-0"

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| | | | | | | |
|------|-------------|-----|------|----------|----|------|
| DSGN | HH KOHLER | NO. | DATE | REVISION | BY | APVD |
| DR | J DUBOSE | | | | | |
| CHK | MJ MERKLEIN | | | | | |
| APVD | CW MASSIE | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

CRO RAH

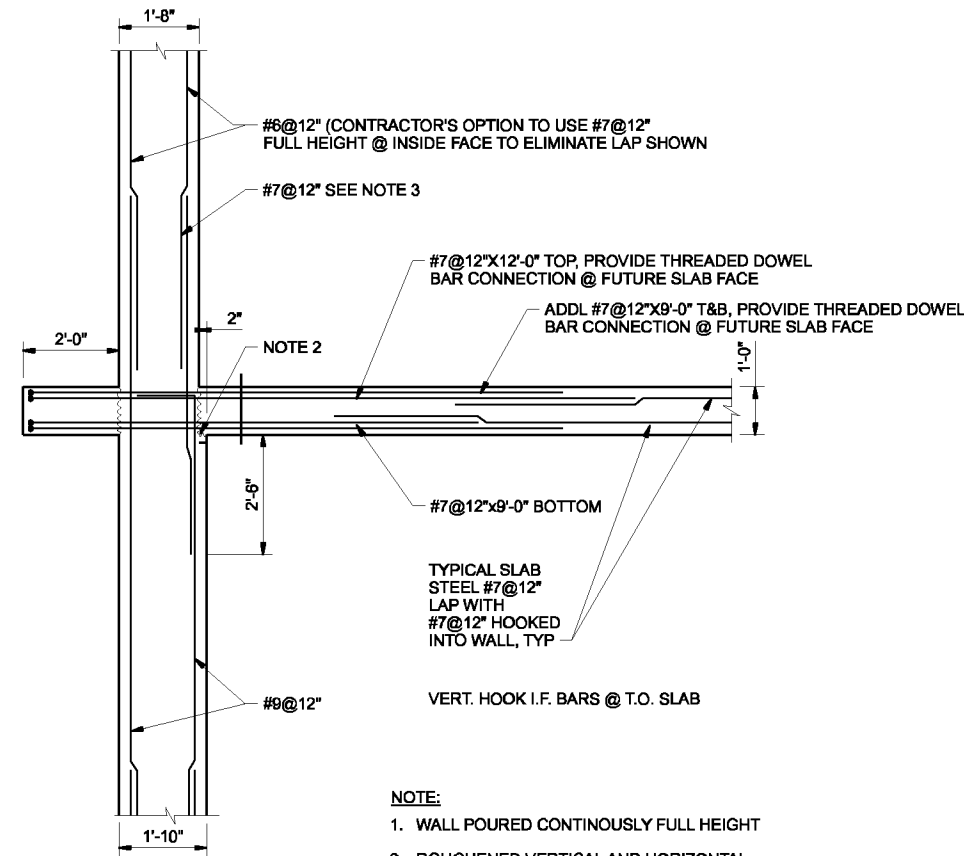
VERIFY SCALE
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WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

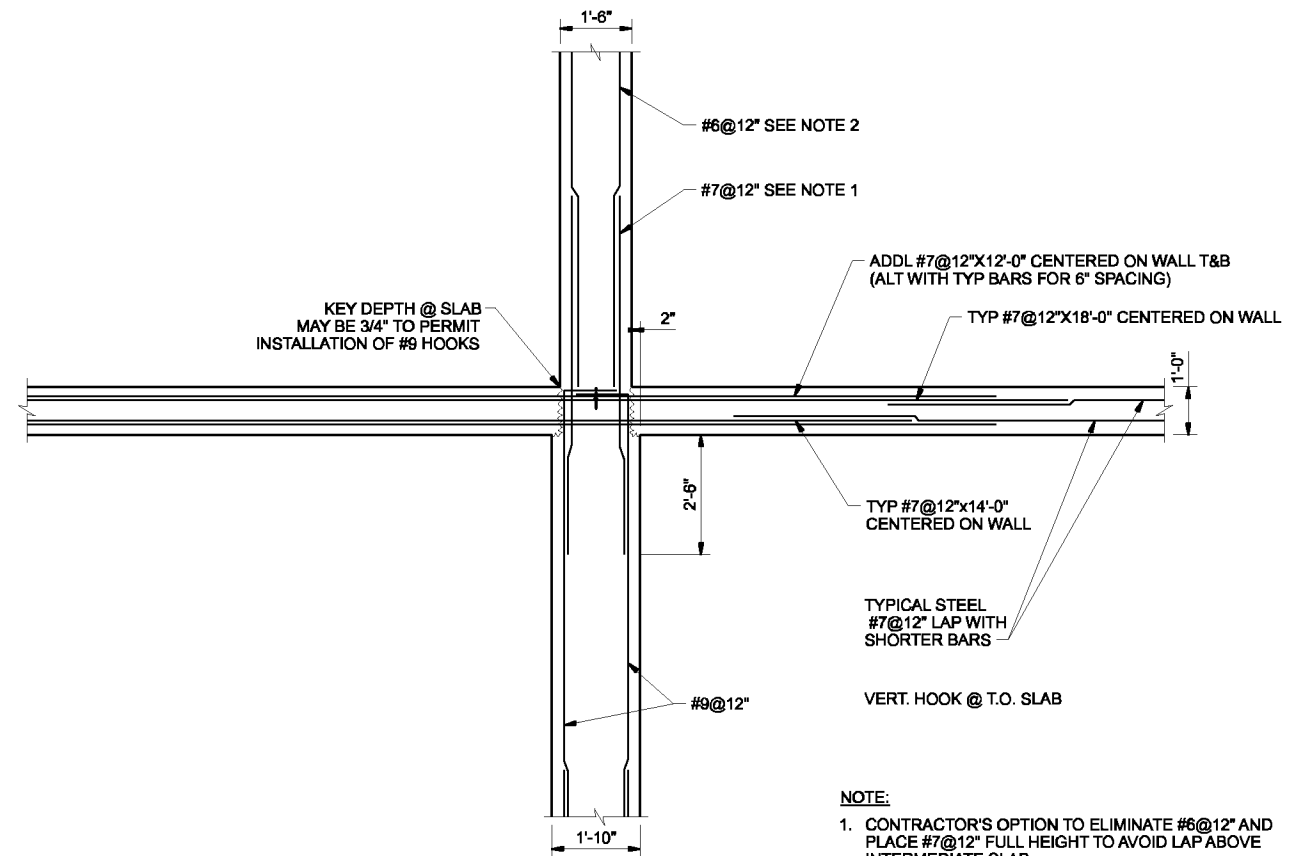
VERTICAL LOOP REACTORS
STRUCTURAL SECTIONS

| | |
|-------|------------------|
| SHEET | 347 |
| DWG | 30-S-401 |
| DATE | DECEMBER 26 2006 |
| PROJ | 326918 |



- NOTE:**
1. WALL POURED CONTINUOUSLY FULL HEIGHT
 2. ROUGHENED VERTICAL AND HORIZONTAL CONSTRUCTION JOINT. MINIMUM 1/4" AMPLITUDE
 3. PROVIDE #7@12" STRAIGHT BARS. TIE TO HORIZONTAL BARS OF LOWER WALL SECTION.

DETAIL 1
1/2"=1'-0" 30-S-202



- NOTE:**
1. CONTRACTOR'S OPTION TO ELIMINATE #6@12" AND PLACE #7@12" FULL HEIGHT TO AVOID LAP ABOVE INTERMEDIATE SLAB
 2. SLAB STEEL IS SIMILAR ON EACH SIDE

DETAIL 2
1/2"=1'-0" 30-S-202

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| | | | | | | | | | |
|------|-------------|----------|------|----------|----|------|--|--|--|
| DSGN | WW KOHLER | | | | | | | | |
| DR | J DUBOSE | | | | | | | | |
| CHK | MJ MERKLEIN | 01/20/10 | | | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

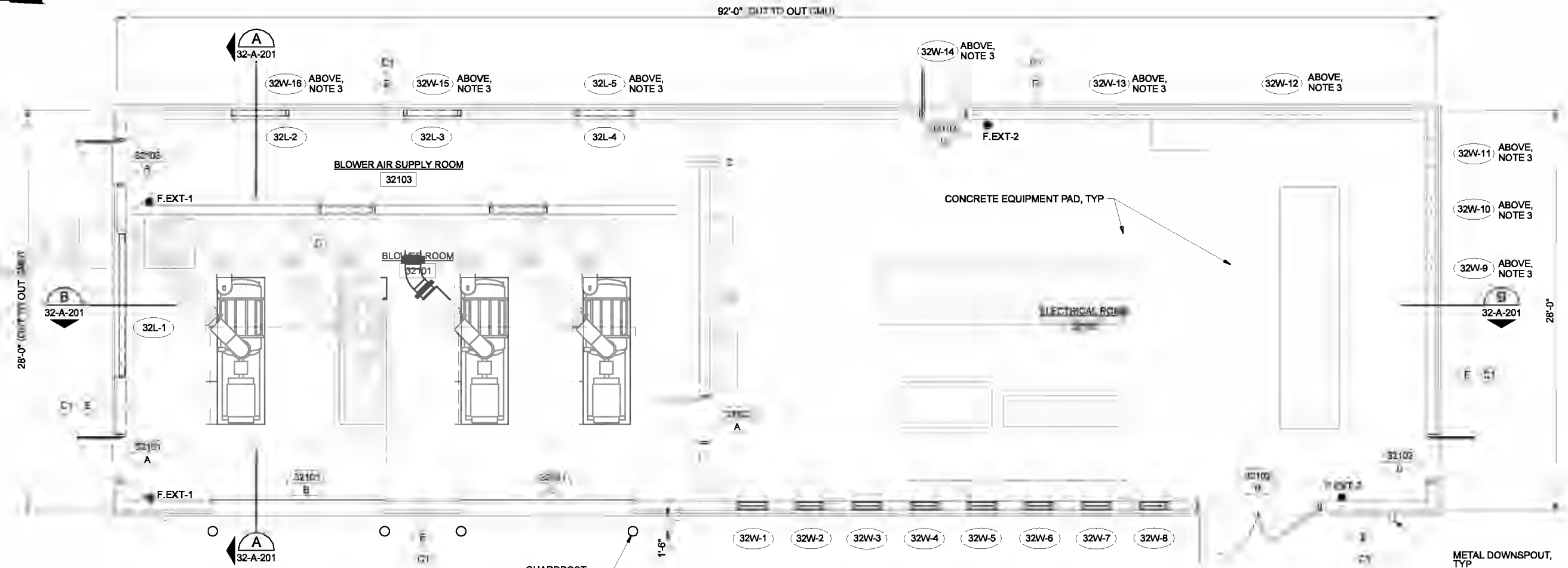
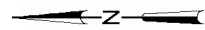
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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

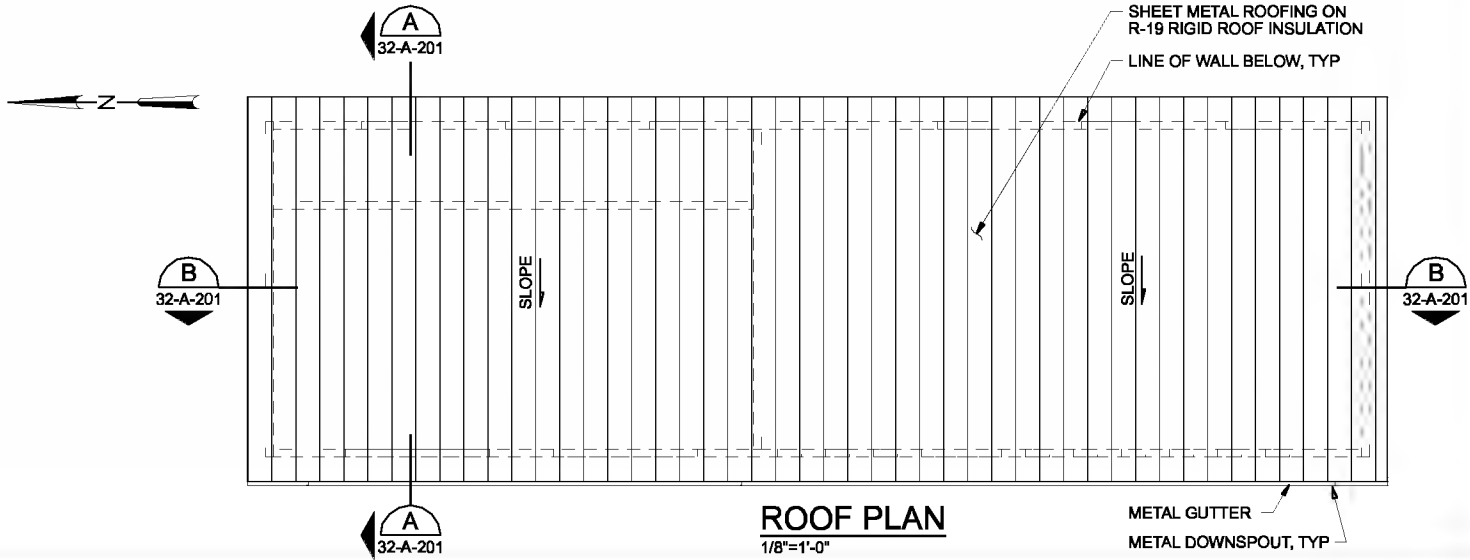
VERTICAL LOOP REACTORS
STRUCTURAL
DETAILS

| | |
|-------|-------------|
| SHEET | 348 |
| DWG | 30-S-402 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |



FLOOR PLAN
1/4"=1'-0"

- NOTES:**
1. FOR GENERAL ARCHITECTURAL NOTES, SYMBOLS, LEGEND, AND WALL TYPES, SEE DWG 01-G-07.
 2. FOR CODE DATA, SEE DWG 01-G-08.
 3. FOR WINDOW AND LOUVER LOCATIONS, SEE STRUCTURAL DRAWINGS.
 4. USE (7601) FOR PIPE PENETRATIONS THROUGH ROOFING, UNLESS NOTED OTHERWISE. SEE MECHANICAL, HVAC, PLUMBING, AND ELECTRICAL DRAWINGS FOR PIPE LOCATIONS.



ROOF PLAN
1/8"=1'-0"

| | | | | | | | | | | | | | | | | | | | | |
|------|------------|-----|------|----------|----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| DSGN | JE CAVE | | | | | | | | | | | | | | | | | | | |
| DR | WB LOVE | | | | | | | | | | | | | | | | | | | |
| CHK | GB KIRSTEN | | | | | | | | | | | | | | | | | | | |
| APVD | CW MASSIE | | | | | | | | | | | | | | | | | | | |
| | | NO. | DATE | REVISION | BY | APVD | | | | | | | | | | | | | | |

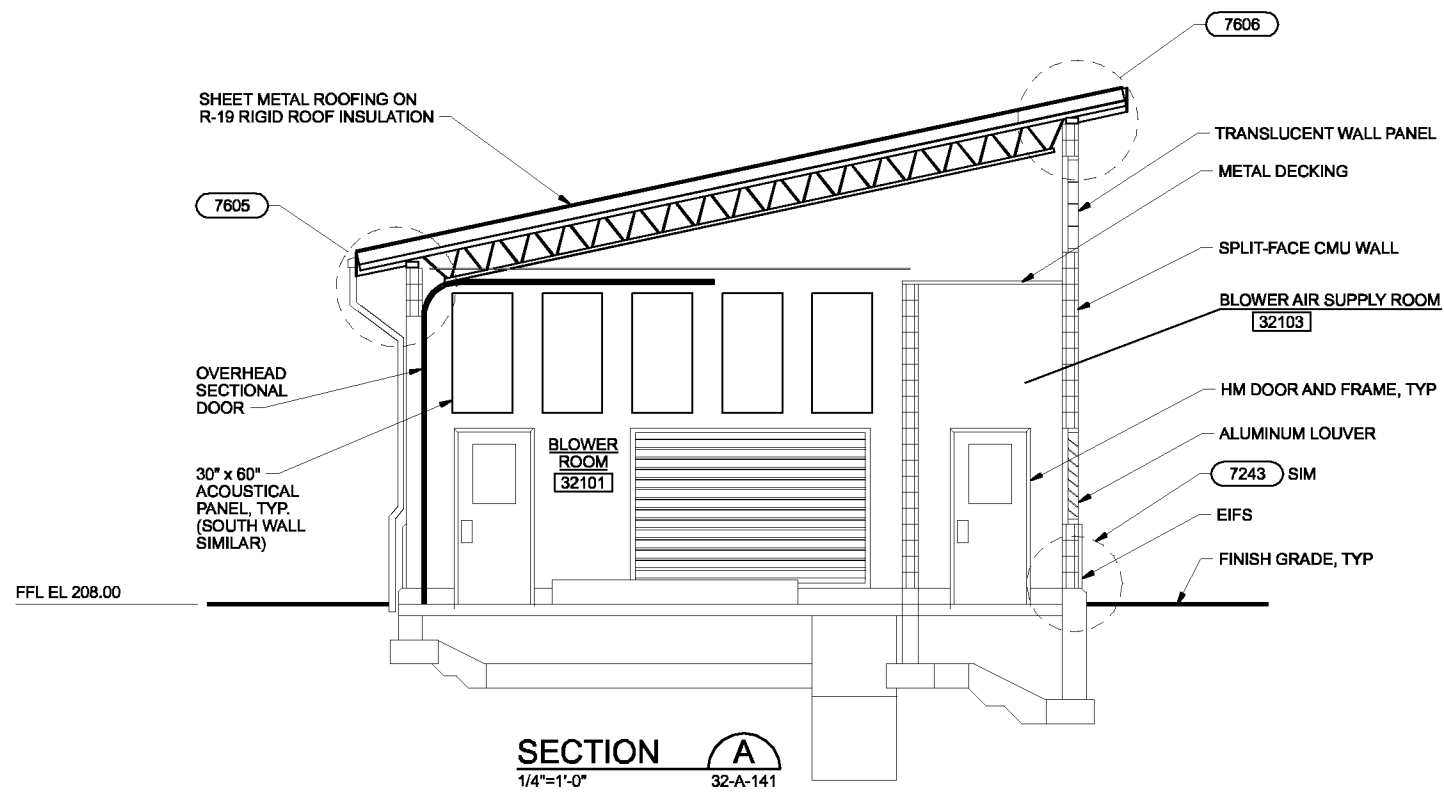


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

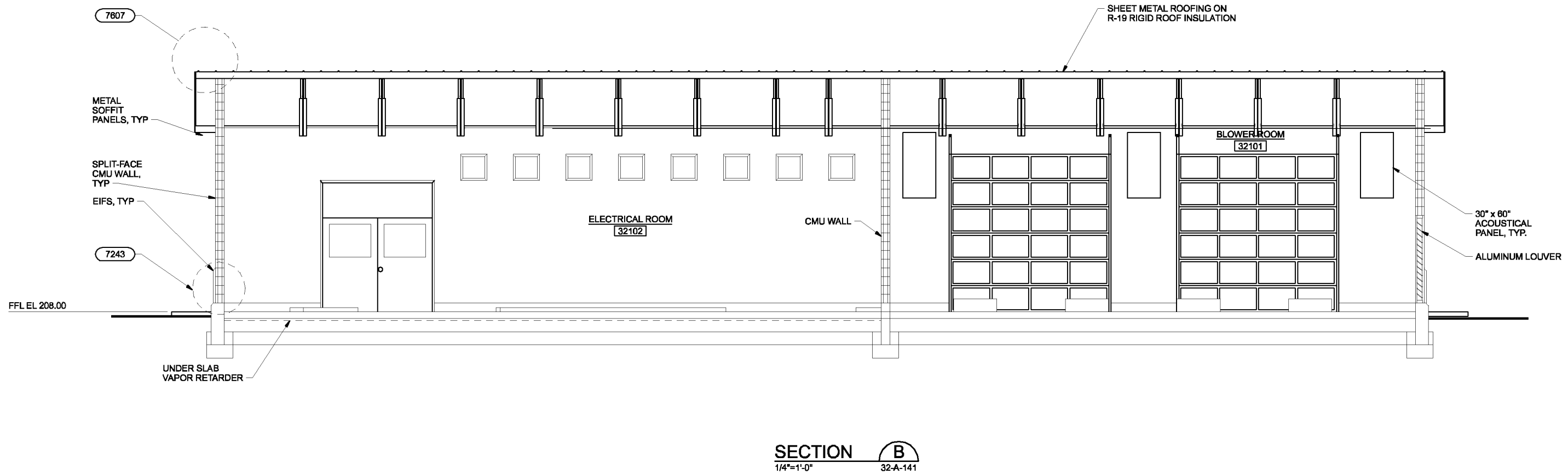
AERATION BLOWER BUILDING
ARCHITECTURAL
FLOOR AND ROOF PLAN

| | |
|-------|-------------|
| SHEET | 349 |
| DWG | 32-A-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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SECTION A
1/4"=1'-0" 32-A-141



SECTION B
1/4"=1'-0" 32-A-141

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| | | | | | | |
|------|------------|-----|------|----------|----|------|
| DSGN | JE CAVE | NO. | DATE | REVISION | BY | APVD |
| DR | WB LOVE | | | | | |
| CHK | GB KIRSTEN | | | | | |
| APVD | CW MASSIE | | | | | |
| | | | | | | |

VERIFY SCALE
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0 1"
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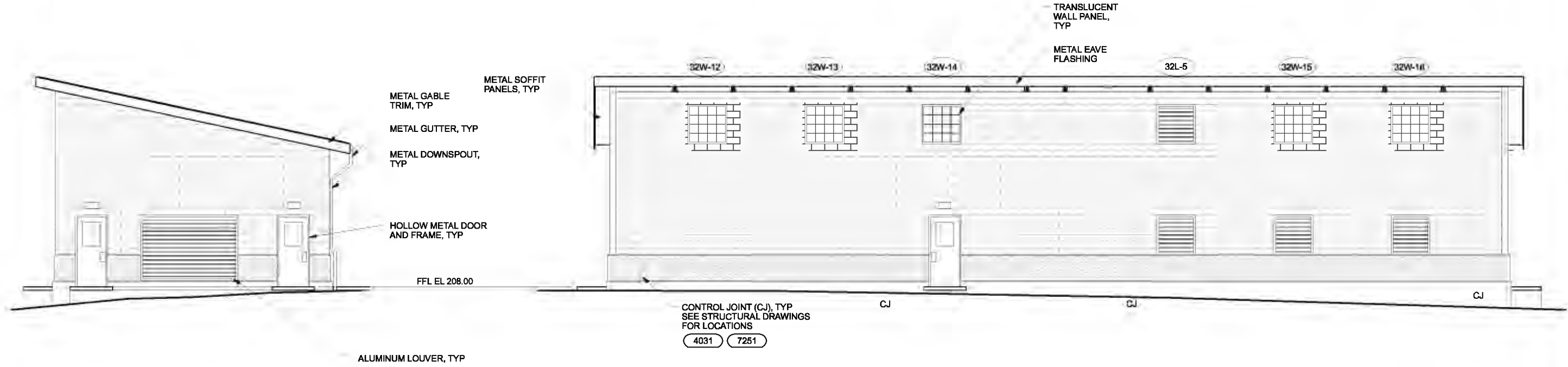


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

AERATION BLOWER BUILDING
ARCHITECTURAL SECTIONS

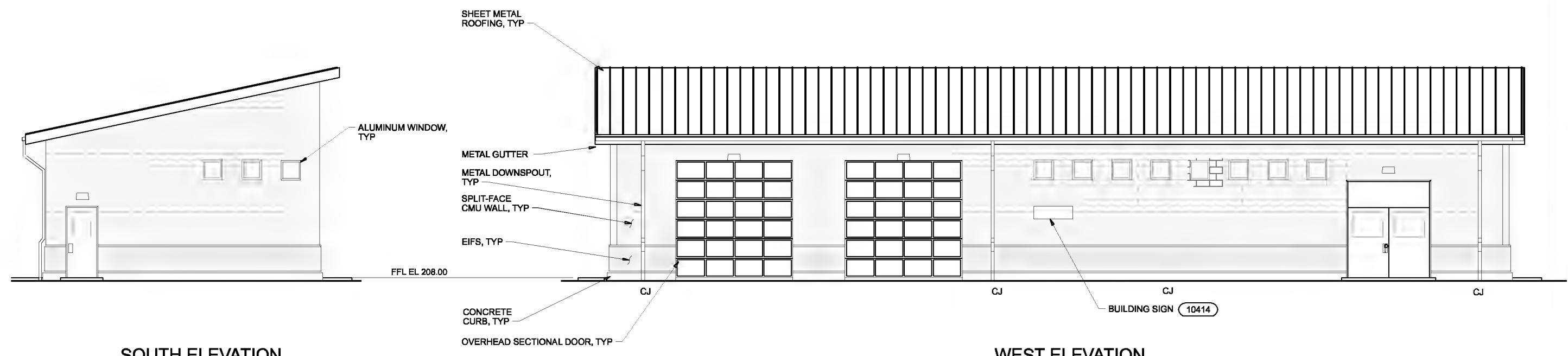
| | |
|-------|-------------|
| SHEET | 350 |
| DWG | 32-A-201 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NORTH ELEVATION
3/16"=1'-0"

EAST ELEVATION
3/16"=1'-0"



SOUTH ELEVATION
3/16"=1'-0"

WEST ELEVATION
3/16"=1'-0"

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.

| | | | | | | | |
|------|------------|----------|------|----------|----|------|--|
| DSGN | JE CAVE | | | | | | |
| DR | GB KIRSTEN | | | | | | |
| CHK | JE CAVE | 01/20/10 | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
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0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

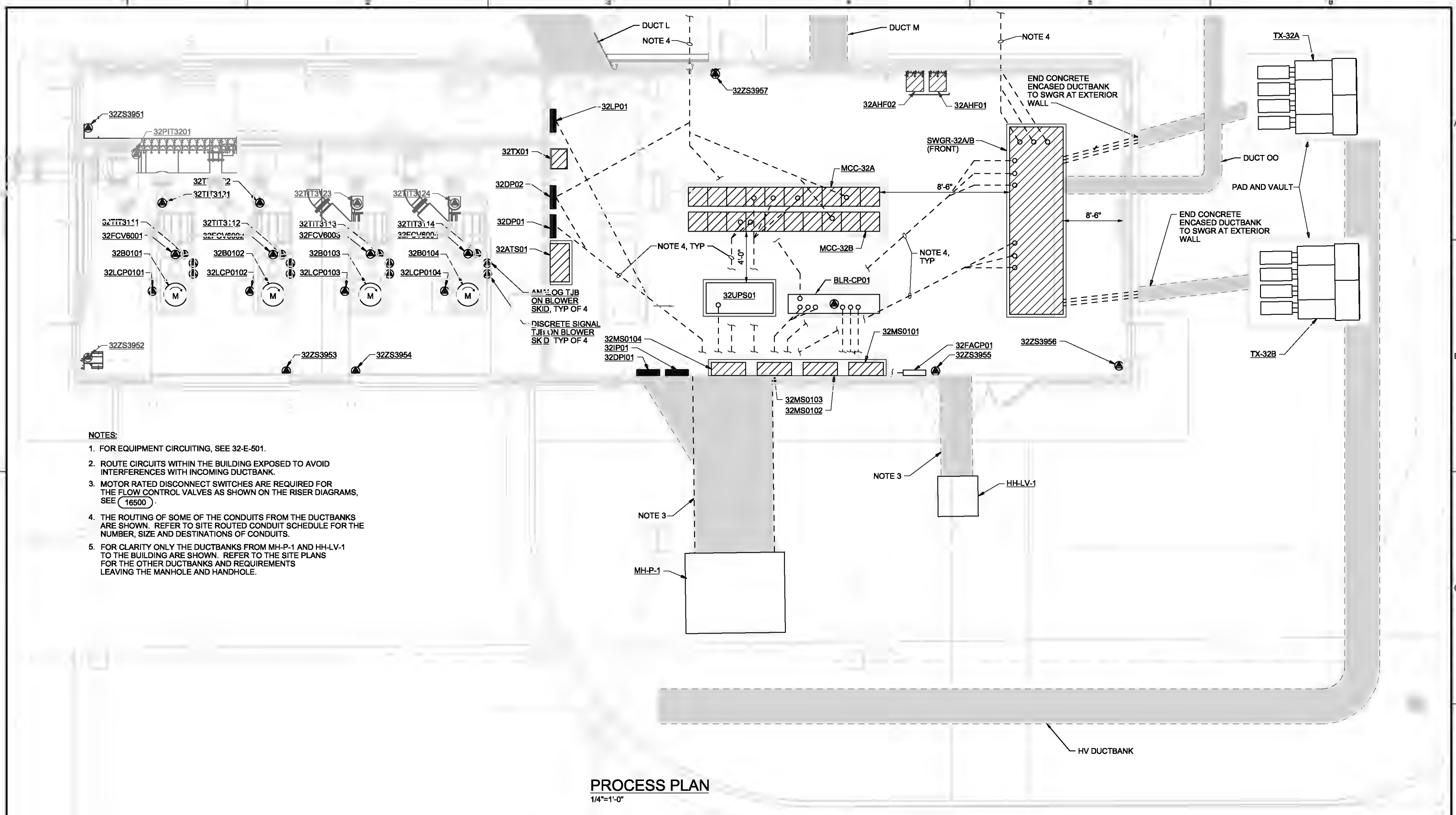


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

AERATION BLOWER BUILDING
EXTERIOR ELEVATIONS

| | |
|-------|-------------|
| SHEET | 351 |
| DWG | 32-A-301 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOTES:

1. FOR EQUIPMENT CIRCUITING, SEE 32-E-501.
2. ROUTE CIRCUITS WITHIN THE BUILDING EXPOSED TO AVOID INTERFERENCES WITH INCOMING DUCTBANK.
3. MOTOR RATED DISCONNECT SWITCHES ARE REQUIRED FOR THE FLOW CONTROL VALVES AS SHOWN ON THE RISER DIAGRAMS, SEE (16500).
4. THE ROUTING OF SOME OF THE CONDUITS FROM THE DUCTBANKS ARE SHOWN. REFER TO SITE ROUTED CONDUIT SCHEDULE FOR THE NUMBER, SIZE AND DESTINATIONS OF CONDUITS.
5. FOR CLARITY ONLY THE DUCTBANKS FROM MH-P-1 AND HH-LV-1 TO THE BUILDING ARE SHOWN. REFER TO THE SITE PLANS FOR THE OTHER DUCTBANKS AND REQUIREMENTS LEAVING THE MANHOLE AND HANDHOLE.

PROCESS PLAN
1/4"=1'-0"

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| | | | | | |
|------|------------|----------|------|----------|----|
| DSGN | KI MAESTRI | | | | |
| DR | GJ LOVE | | | | |
| CHK | JB MAURIS | 01/20/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0" = 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

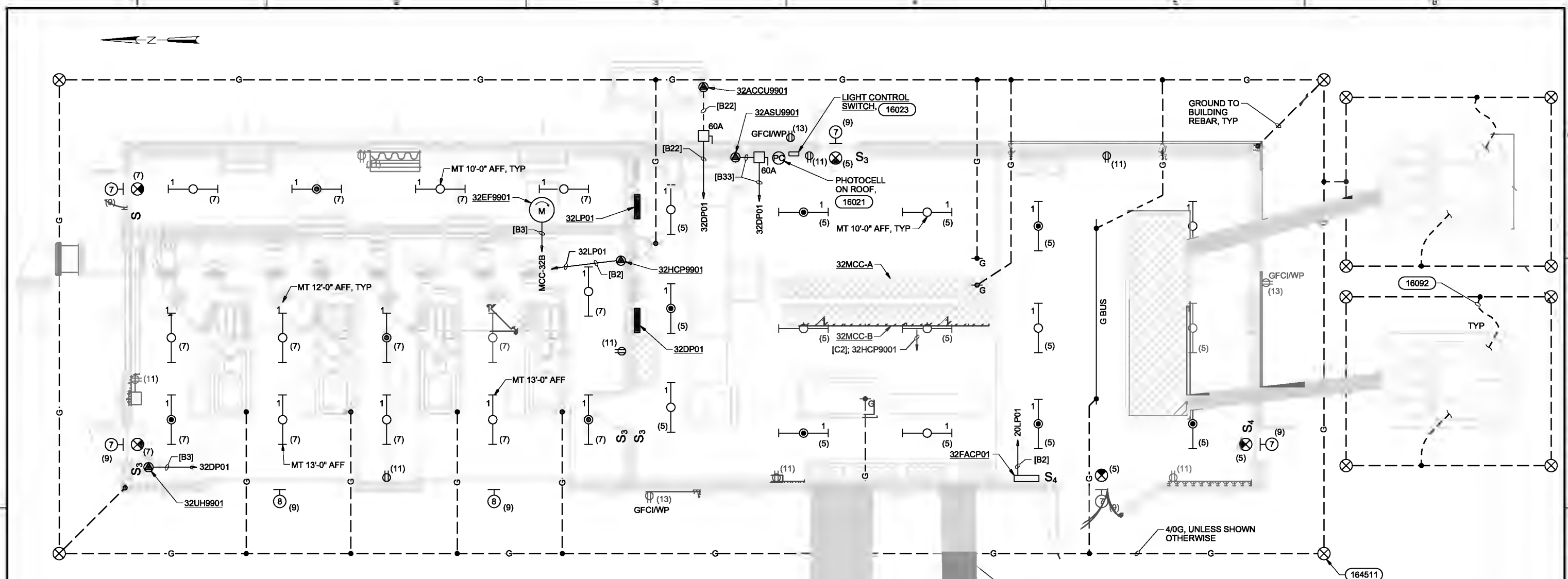


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

AERATION BLOWER BUILDING
ELECTRICAL
PROCESS PLAN

| | |
|-------|-------------|
| SHEET | 352 |
| DWG | 32-E-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOTES:

1. FOR LUMINAIRE SCHEDULE AND NOTES, SEE DWG 91-E-531
2. COORDINATE FINAL LIGHTING LOCATION WITH OTHER DISCIPLINES IN THESE AREA'S TO AVOID CONFLICTS WITH PIPING AND DUCT WORK.
3. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO LIGHTS, AND RECEPTACLES FOR EXAMPLE: THE (1) INDICATES CIRCUIT NO. 1 IN PANEL 32LP01.
4. FOR GENERAL NOTES FOR LIGHTING SYSTEM AND GENERAL NOTES FOR POWER AND SIGNAL SYSTEMS, SEE 01-E-25.
5. FURNISH AND INSTALL NO. 12 AWG WIRE WITH NO. 12 AWG GROUND IN 3/4" CONDUIT FOR CIRCUIT LENGTHS LESS THAN 75 FEET. PROVIDE NO. 10 AWG WIRE SIZE FOR LENGTHS GREATER THAN 75 FEET.
6. EMERGENCY LUMINAIRES NOT DESIGNATED AS 24 HR (HOUR) SHALL BE SWITCHED OFF. PROVIDE ADDITIONAL WIRING AS REQUIRED.
7. EXIT LIGHTS SHALL BE UNSWITCHED.
8. LUMINAIRE TYPE 7 AND 8 TO BE CONTROLLED BY PHOTOCELL, SEE (16023).
9. DISCONNECTS FOR 32UH9901 AND 32EF9901 ARE PROVIDED BY DIVISION 15 WITH THE EQUIPMENT.

FACILITY PLAN
1/4"=1'-0"

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| | | | | | | |
|------|------------|-----|------|----------|----|------|
| DSGN | KL MAESTRI | NO. | DATE | REVISION | BY | APVD |
| DR | GL LOVE | | | | | |
| CHK | JB MAURIS | | | | | |
| APVD | CW MASSIE | | | | | |

VERIFY SCALE
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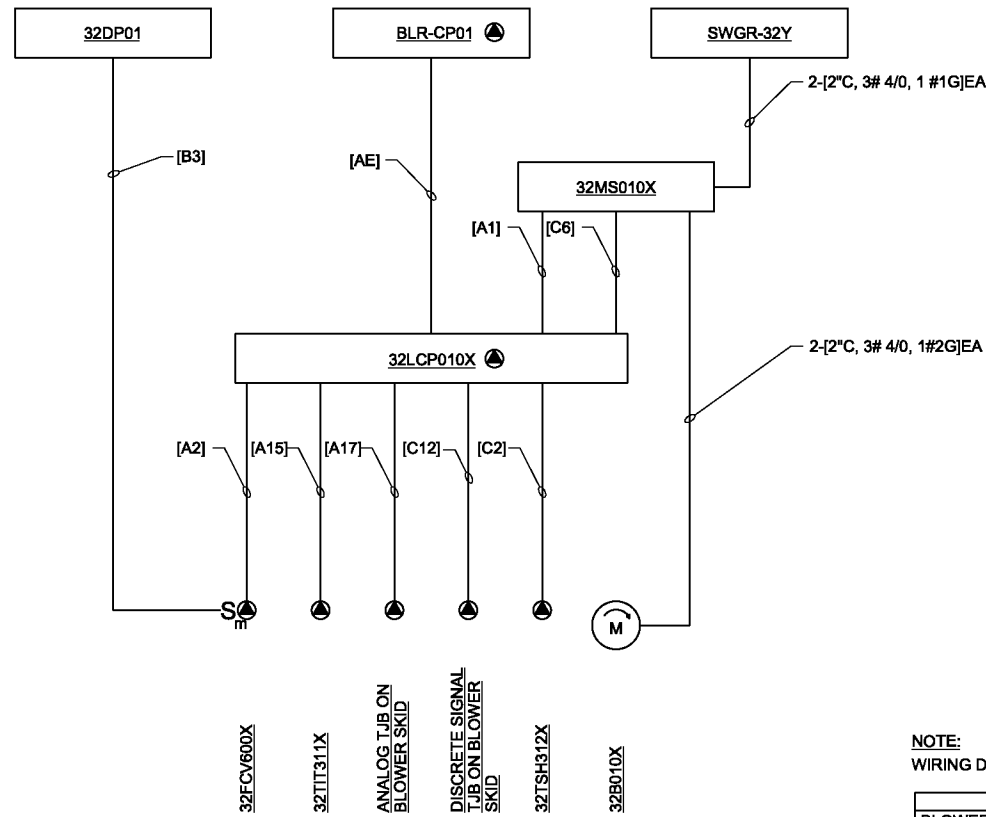


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

AERATION BLOWER BUILDING
ELECTRICAL FACILITY PLAN

| | |
|-------|-------------|
| SHEET | 353 |
| DWG | 32-E-142 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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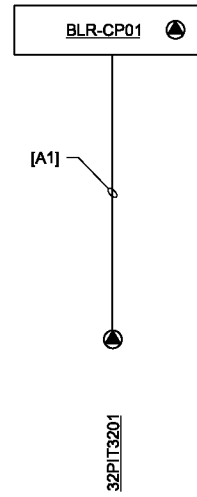


AERATION BLOWERS

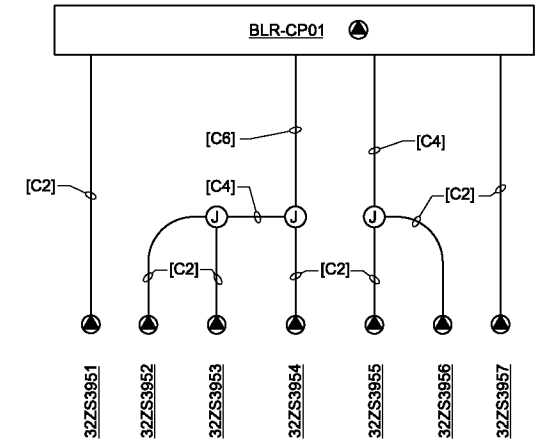
32FCV600X
 32TIT311X
 ANALOG TUB ON BLOWER SKID
 DISCRETE SIGNAL TUB ON BLOWER SKID
 32TSH312X
 32B010X

NOTE:
 WIRING DIAGRAM IS TYPICAL OF 4.

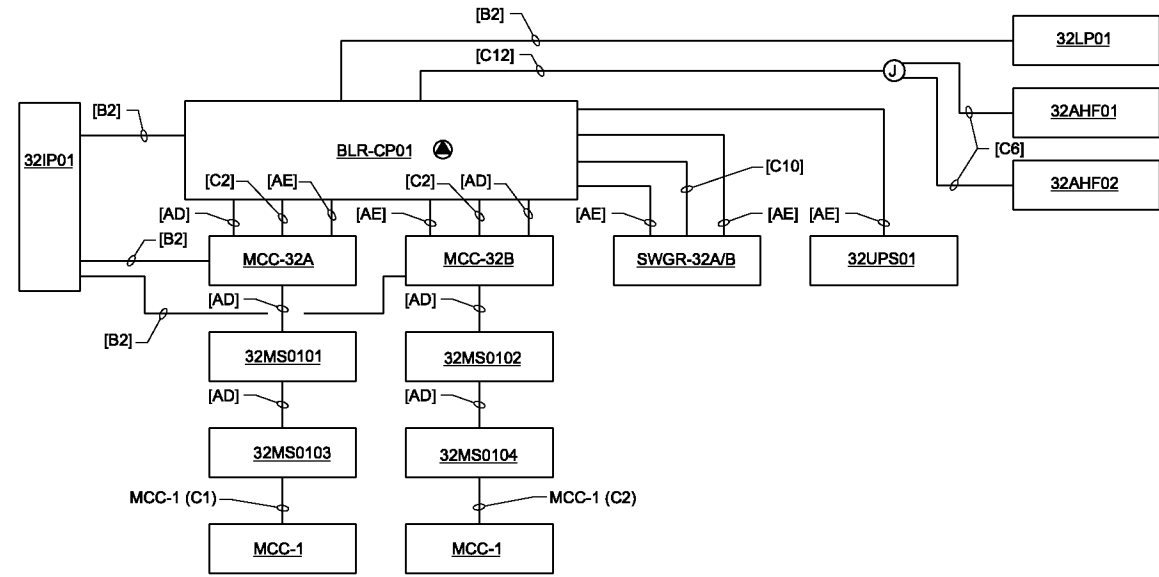
| | X | Y |
|----------|---|---|
| BLOWER 1 | 1 | A |
| BLOWER 2 | 2 | B |
| BLOWER 3 | 3 | A |
| BLOWER 4 | 4 | B |



PRESSURE TRANSMITTER



INTRUSION ALARM SWITCHES



COMMUNICATIONS

NOTE:
 FOR CIRCUITING AND CONDUIT REQUIREMENTS,
 SEE SITE ROUTED CIRCUIT SCHEDULE AND SITE
 ROUTED CONDUIT SCHEDULE.

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| | | | | | | | |
|------|------------|----------|------|----------|----|------|--|
| DSGN | KL MAESTRI | | | | | | |
| DR | GJ LOVE | | | | | | |
| CHK | JB MAURAS | 01/20/10 | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

VERIFY SCALE
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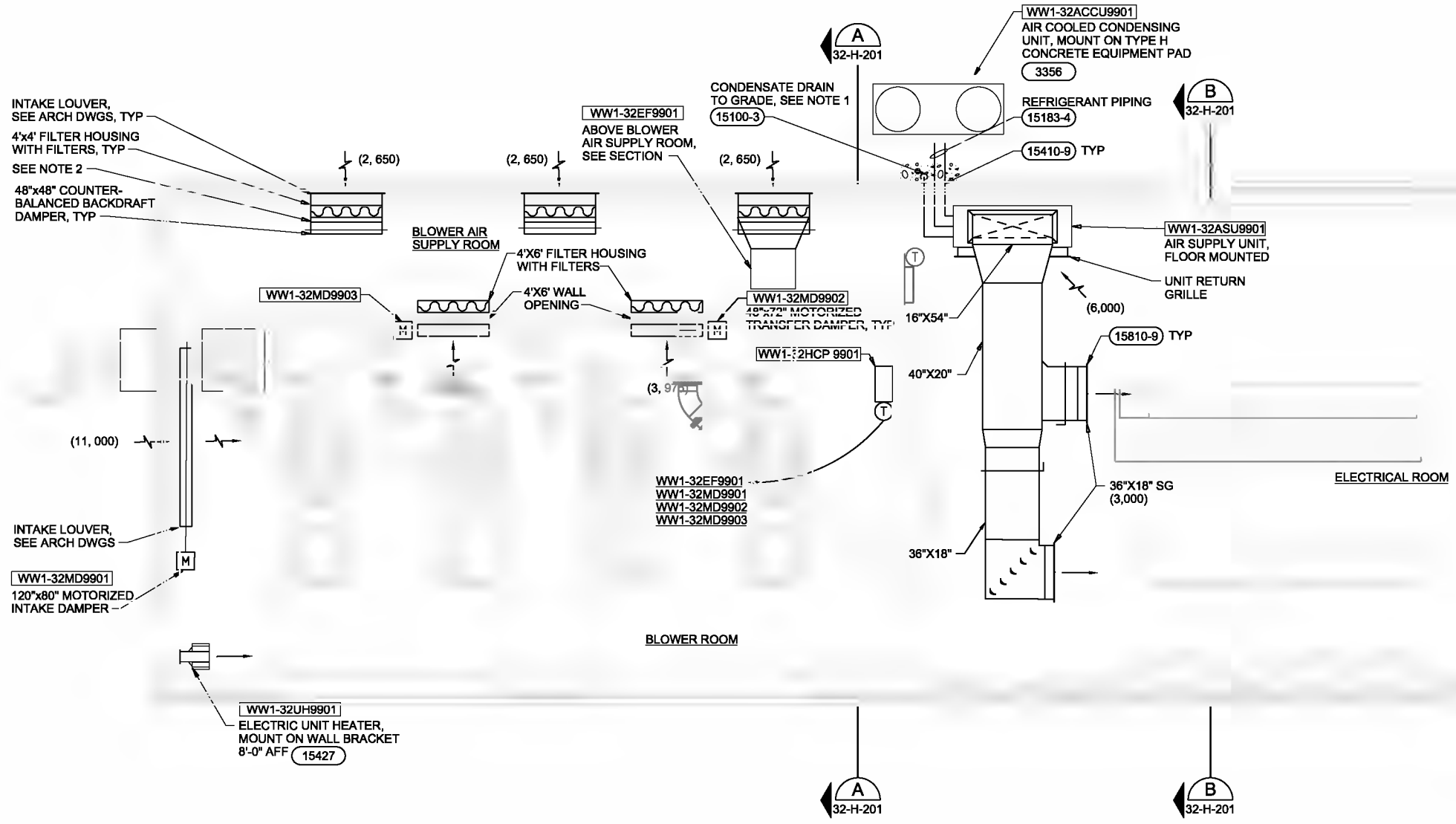
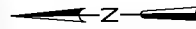


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

AERATION BLOWER BUILDING
ELECTRICAL RISER DIAGRAMS

| | |
|-------|-------------|
| SHEET | 354 |
| DWG | 32-E-501 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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HVAC PLAN
1/4"=1'-0"

NOTES:

1. PROVIDE 2'X2'X2' CUBIC ZONE OF GRANULAR DRAIN MATERIAL TO RECIEVE CONDENSATE.
2. PROVIDE 3" OF DUCT BETWEEN FILTER AND DAMPER TO PROVIDE CLEARANCE FOR DAMPER OPERATION, TYP.

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| | | | | | | | | | |
|--------|------------|----------|------|----------|----|-------|--|--|--|
| DESIGN | W. WELP | | | | | | | | |
| DR | B. HOETGER | | | | | | | | |
| CHK | T. REJFIR | 01/20/06 | | | | | | | |
| APRVD | C. WASSIE | | | | | | | | |
| | | NO. | DATE | REVISION | BY | APRVD | | | |

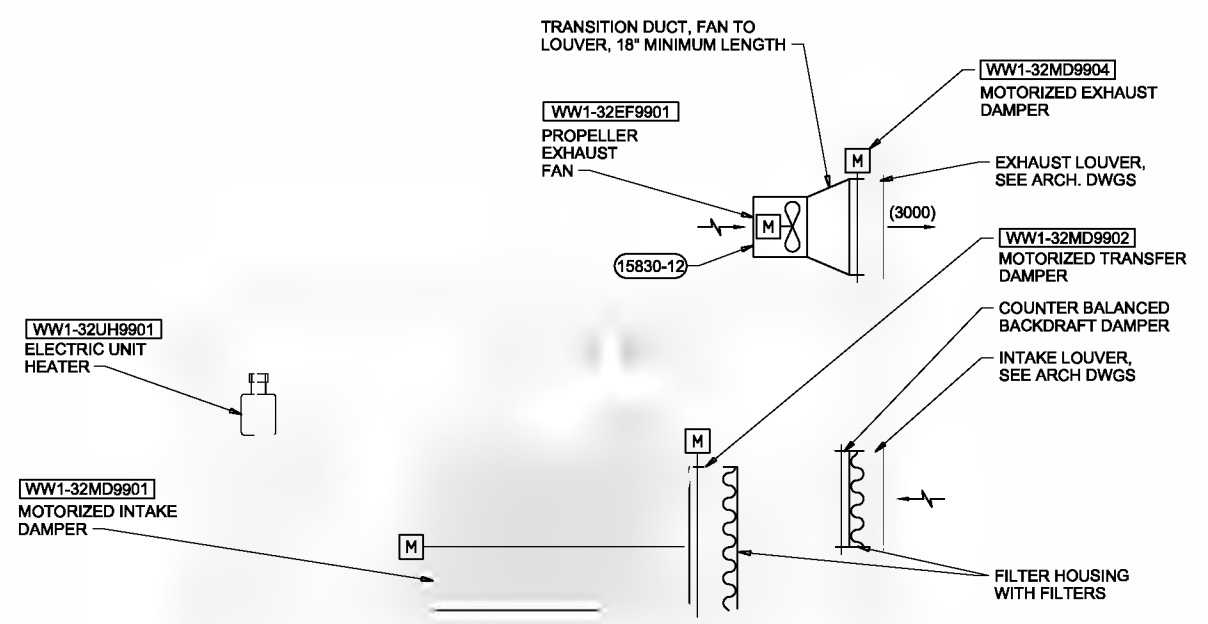


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

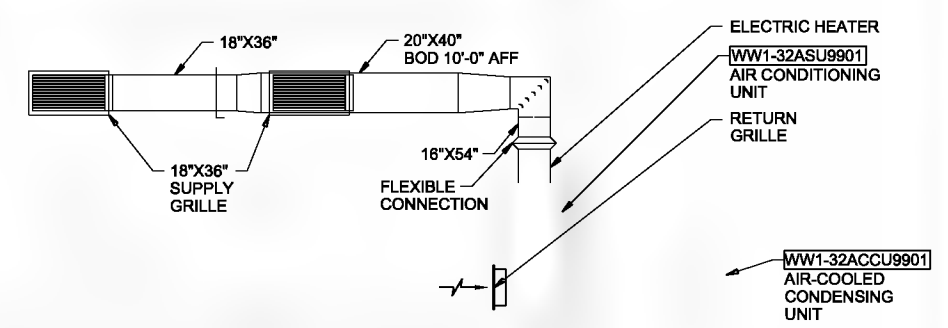
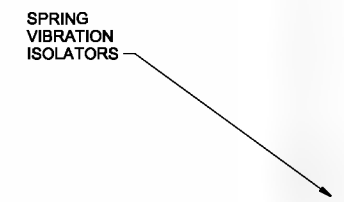
AERATION BLOWER BUILDING
HVAC PLAN

| | |
|-------|-------------|
| SHEET | 355 |
| DWG | 32-H-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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SECTION A
1/4"=1'-0" 32-H-141



SECTION B
1/4"=1'-0" 32-H-141

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| | | | | | | |
|------------------------------|----------------------------|------------------|-------------------|------------------------|------------------|---|
| DESIGNED BY E. H. HETTLER | CHECKED BY T. J. REJFIR | DATE 01/20/06 | SCALE AS-BUILT | APPROVED BY CRO RAH | DATE 01/20/06 | VERIFIED SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
|------------------------------|----------------------------|------------------|-------------------|------------------------|------------------|---|

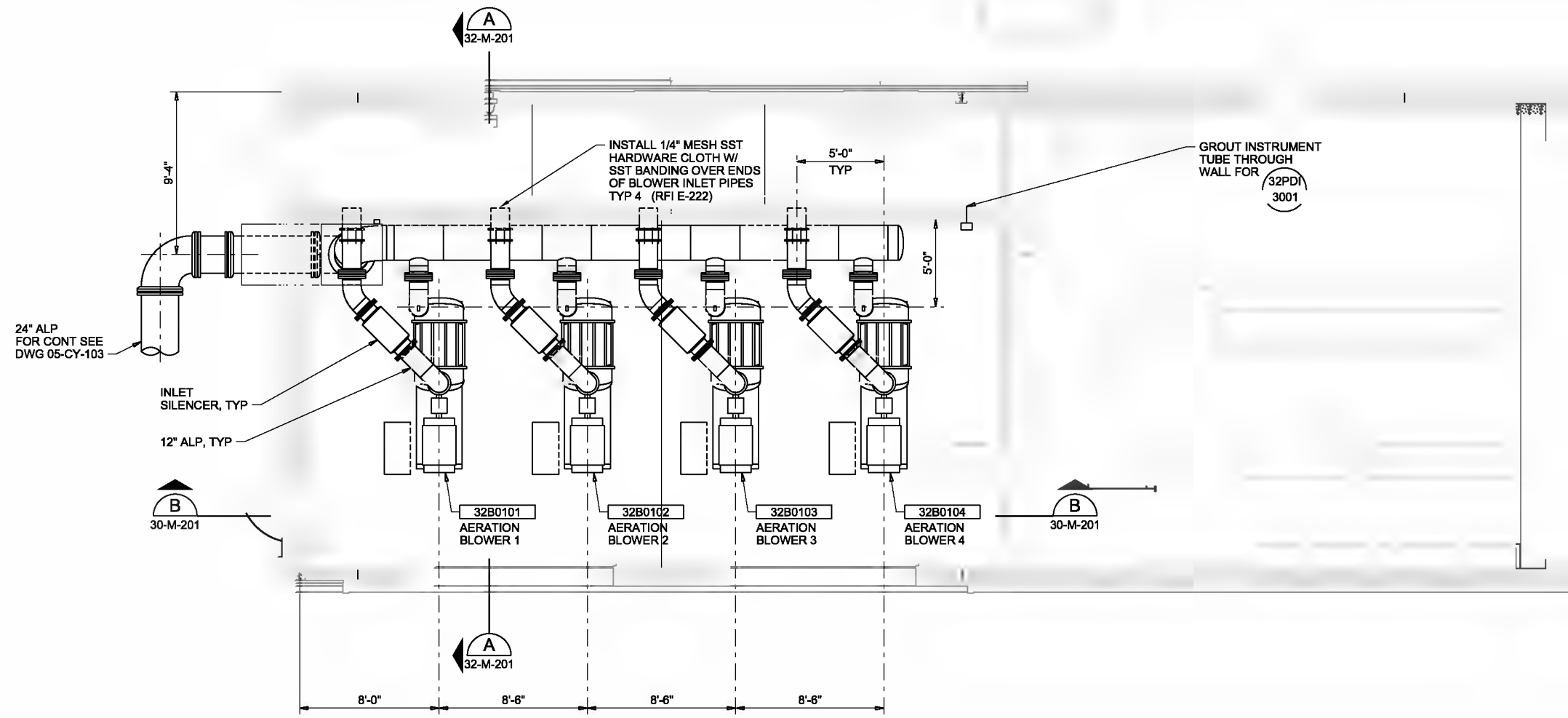
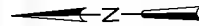


CITY OF ALBANY
SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

AERATION BLOWER BUILDING
HVAC
SECTIONS

| | |
|-------|-------------|
| SHEET | 356 |
| DWG | 32-H-201 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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PLAN
1/4"=1'-0"

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| | | | | | |
|------|------------|-----|------|----------|----|
| DSGN | KG CLEGG | | | | |
| DR | ER BROWN | | | | |
| CHK | RL JOHNSON | | | | |
| APVD | CW MARRIS | NO. | DATE | REVISION | BY |

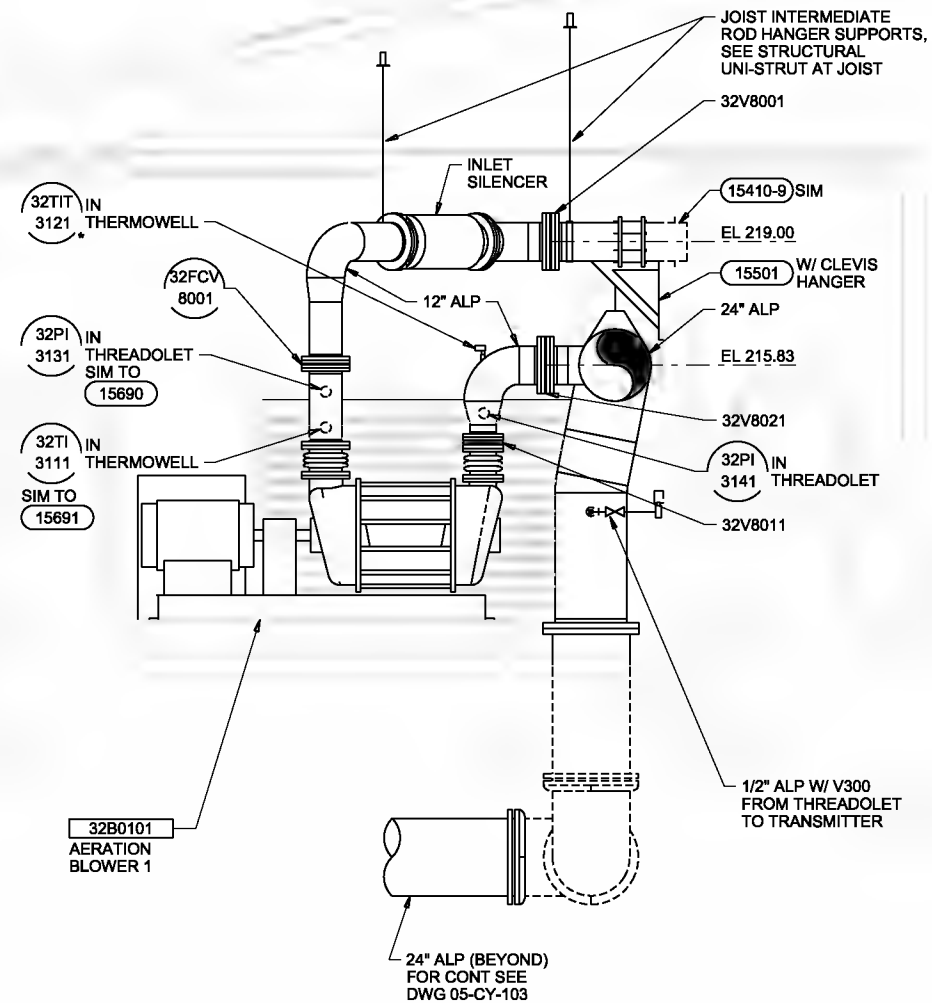
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



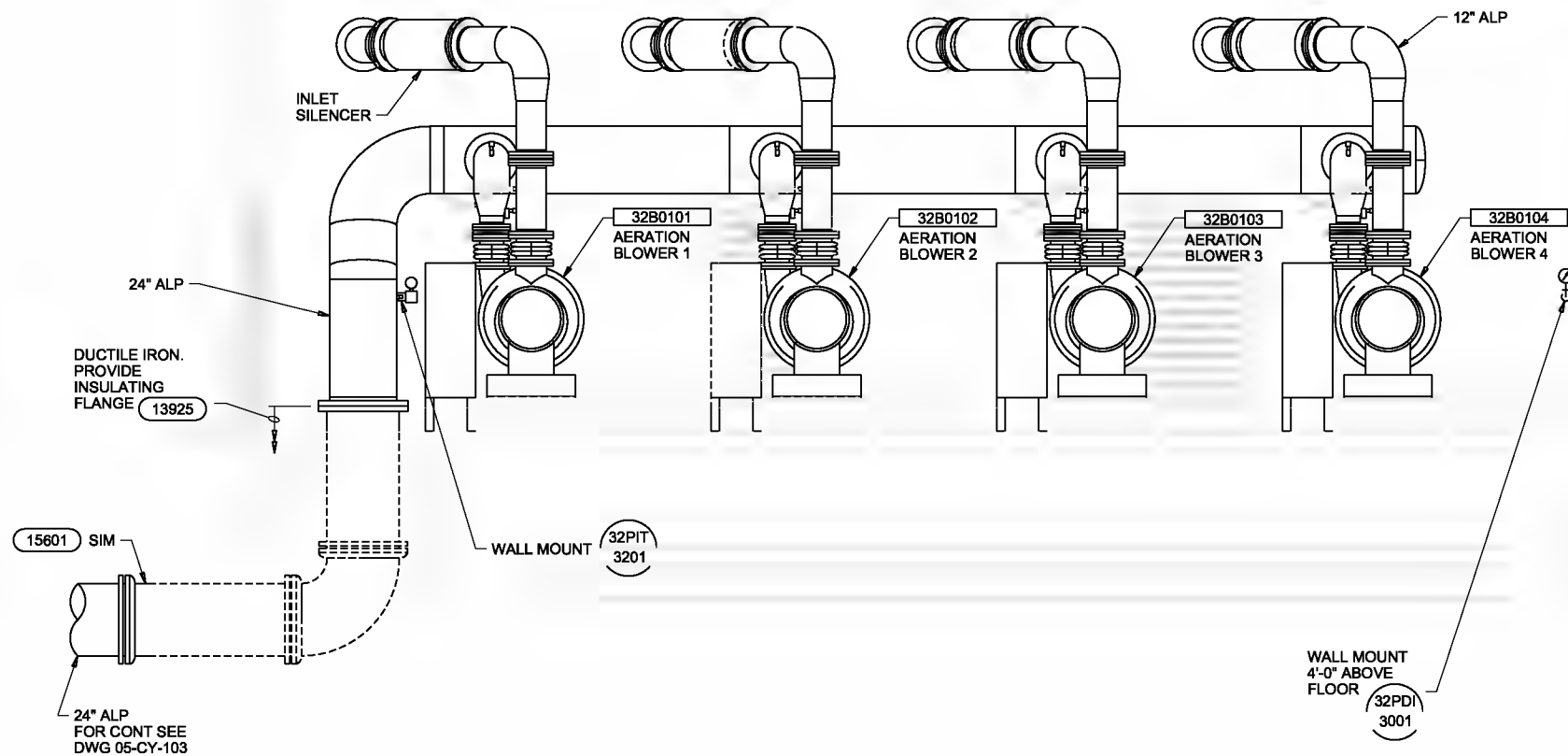
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

AERATION BLOWER BUILDING
MECHANICAL
PLAN

| | |
|-------|-------------|
| SHEET | 357 |
| DWG | 32-M-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |



SECTION A
3/8"=1'-0" 32-M-141



SECTION B
3/8"=1'-0" 32-M-141

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KENNETH G. CLEGG STATE OF OREGON, P.E. NO. 8,878.

| | | | | | |
|--------|------------|----------|--|--|--|
| DESIGN | NG CLEGG | | | | |
| DR | EA BROWN | | | | |
| CHK | AS JOHNSON | 01/20/06 | | | |
| APR | CV WASSIE | | | | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



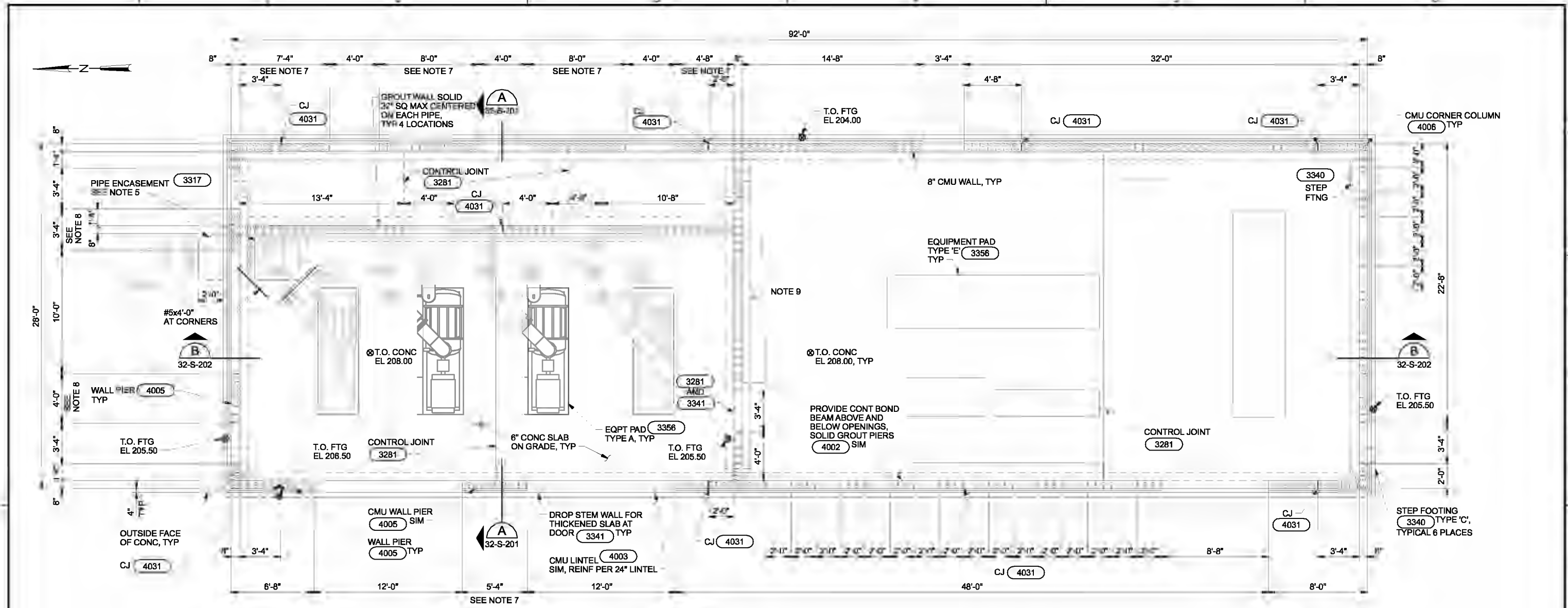
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

AERATION BLOWER BUILDING
MECHANICAL SECTIONS

| | |
|-------|-------------|
| SHEET | 358 |
| DWG | 32-M-201 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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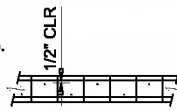
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NOTES:

- 1. FOR GENERAL STRUCTURAL NOTES SEE DRAWINGS 01-G-09 AND 01-G-10.
- 2. FOR GENERAL CMU WALL REINFORCING PLACEMENT SEE 4004
- 3. FOR CMU OPENING (LINTEL AND JAMB) REINFORCING SEE 4002 AND 4003 TYPICAL.
- 4. SEE SECTIONS **A** AND **B** FOR OPENINGS IN UPPER PORTIONS OF EAST WALL.
- 5. PIPE ENCASEMENT:
 - A. JOG INTERIOR WALL FOOTING AND PROVIDE 1/2" PJF BETWEEN FOOTING AND ENCASEMENT.
 - B. EXTEND ENCASEMENT UP THROUGH SLAB. PROVIDE 1/2" PJF BETWEEN ENCASEMENT AND SLAB.
- 6. SEE ARCHITECTURAL FOR REQUIRED EMBEDS AT ROLLUP AND OVERHEAD DOORS

- 7. PROVIDE #5 VERTICAL BARS AT COMBINED 8-INCH SPACING. OFFSET AS SHOWN. MATCHING DOWEL BARS MAY BE CENTERED IN CELL.
- 8. PROVIDE #6 VERTICAL BARS AT COMBINED 8-INCH SPACING. OFFSET AS SHOWN. MATCHING DOWEL BARS MAY BE CENTERED IN CELL.
- 9. REVISE CENTER WALL FOOTING FROM 2'-0" TO 3'-0".



FOUNDATION PLAN

1/4"=1'-0"

| | | | | | | | | | | | |
|------|-------------|----------|------|---|-----|------|--|--|--|--|--|
| DSGN | MJ MERKLEIN | | | | | | | | | | |
| DR | KJ DAVIS | | | | | | | | | | |
| CHK | SM FREY | 01/20/10 | | | | | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | | | | | |
| | | | | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | CRO | RAH | | | | | |

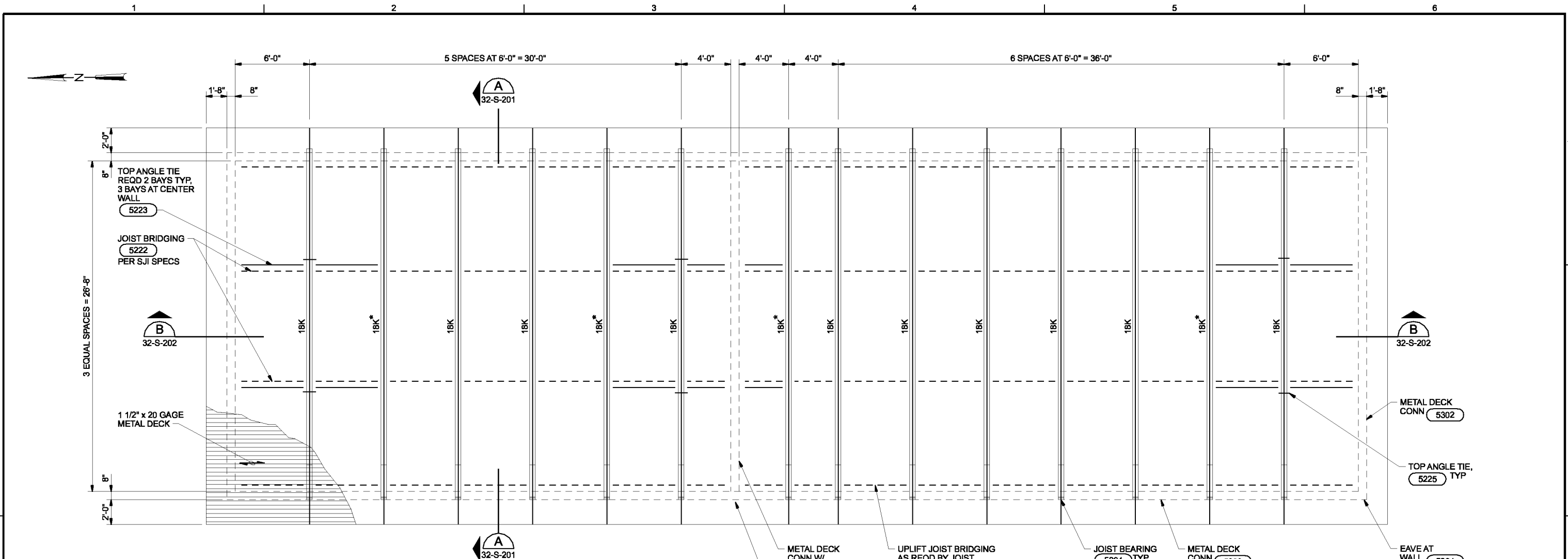


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

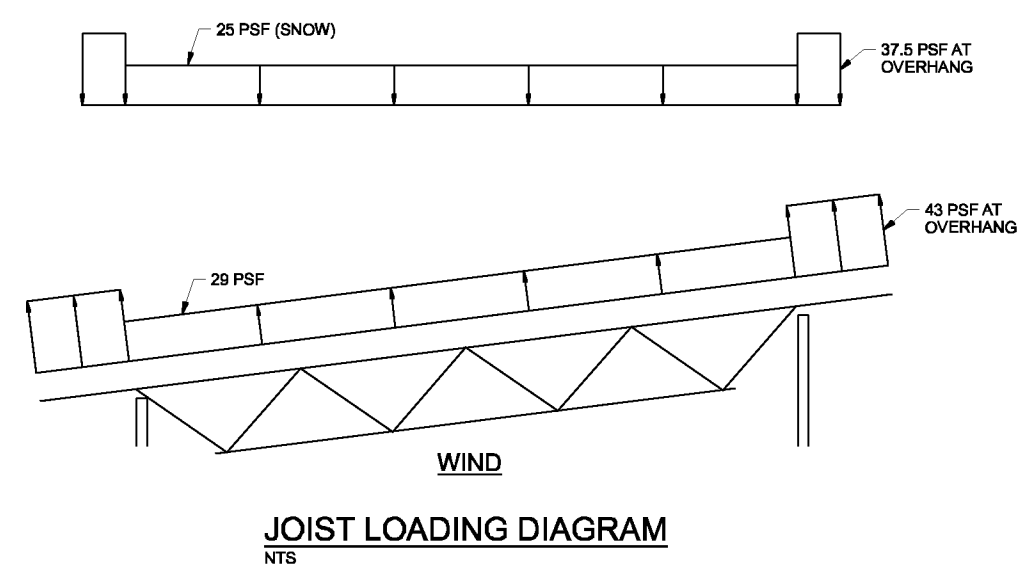
AERATION BLOWER BUILDING
STRUCTURAL FOUNDATION PLAN

| | |
|-------|-------------|
| SHEET | 359 |
| DWG | 32-S-131 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
- DESIGN LOADS:
 - A. ROOF SNOW LOAD = 25 PSF
 - FOR GENERAL STRUCTURAL NOTES, SEE DRAWINGS 01-G-09 & 01-G-10.
 - ROOF DECKING NOTES:
 - A. ROOF DECK SHALL BE 1 1/2" x 20 GAGE GALVANIZED STEEL ROOF DECKING WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:
 - I = 0.212 IN⁴
 - S_x = 0.234 IN³
 - S_y = 0.247 IN³
 - ROOF DECK SHALL BE ATTACHED TO ALL SUPPORTS AS FOLLOWS:
 - SUPPORTS PERPENDICULAR TO DECK SPAN: 5/8" DIAMETER PUDDLE WELDS PER 36" WIDE PANEL (MINIMUM), UNO
 - SUPPORTS PARALLEL TO DECK SPAN: 5/8" DIAMETER PUDDLE WELDS AT 12" ON CENTER (MINIMUM)
 - DECK SEAMS PARALLEL TO DECK SPAN: TOP SEAM WELD AT 18" ON CENTER (MINIMUM)
 - WELD ROOF DECK TO OPENING FRAMING AND MISCELLANEOUS FRAMING WITH 5/8" DIAMETER PUDDLE WELDS AT 6" ON CENTER MAXIMUM, BUT NOT LESS THAN 3 WELDS PER MEMBER.
 - FASTENING OF DECK SHALL DEVELOP A MINIMUM OF 530 POUNDS PER FOOT.
 - DESIGN ALL JOIST FOR AN ADDITIONAL AXIAL COMPRESSION OR TENSION LOAD OF 3 KIPS. DESIGN FOR ECCENTRICITY IN BEARING CONNECTION AS SHOWN ON STANDARD DETAIL 5204.
 - SEE JOIST LOADING DIAGRAM ON THIS SHEET.



ROOF FRAMING PLAN
1/4"=1'-0"

JOIST LOADING DIAGRAM
NTS

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| | | | | | | | |
|------|-------------|-----|------|----------|-----|------|---|
| DSGN | MJ MERKLEIN | NO. | DATE | REVISION | BY | APVD | VERIFY SCALE |
| DR | KJ DAVIS | | | | | | BAR IS ONE INCH ON ORIGINAL DRAWING. |
| CHK | SM FREY | | | | | | 0 |
| APVD | CW MASSIE | | | | | | 1" |
| | | | | | | | IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| | | | | | CRO | RAH | |



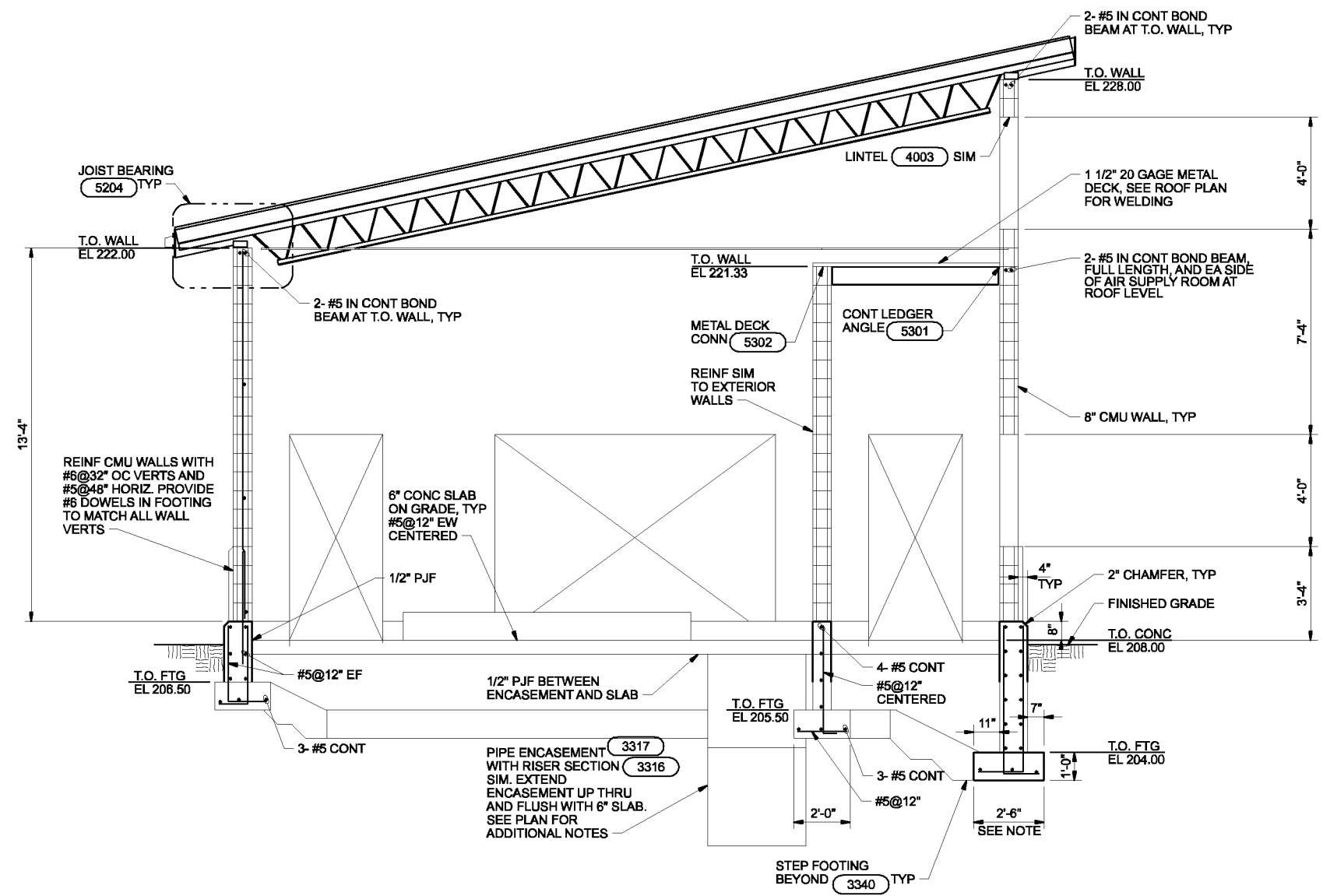
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

AERATION BLOWER BUILDING
STRUCTURAL
ROOF FRAMING PLAN

| | |
|-------|-------------|
| SHEET | 360 |
| DWG | 32-S-151 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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1 2 3 4 5 6



NOTE:
TYPICAL FOR EXTERIOR WALLS.

SECTION A
3/8"=1'-0"

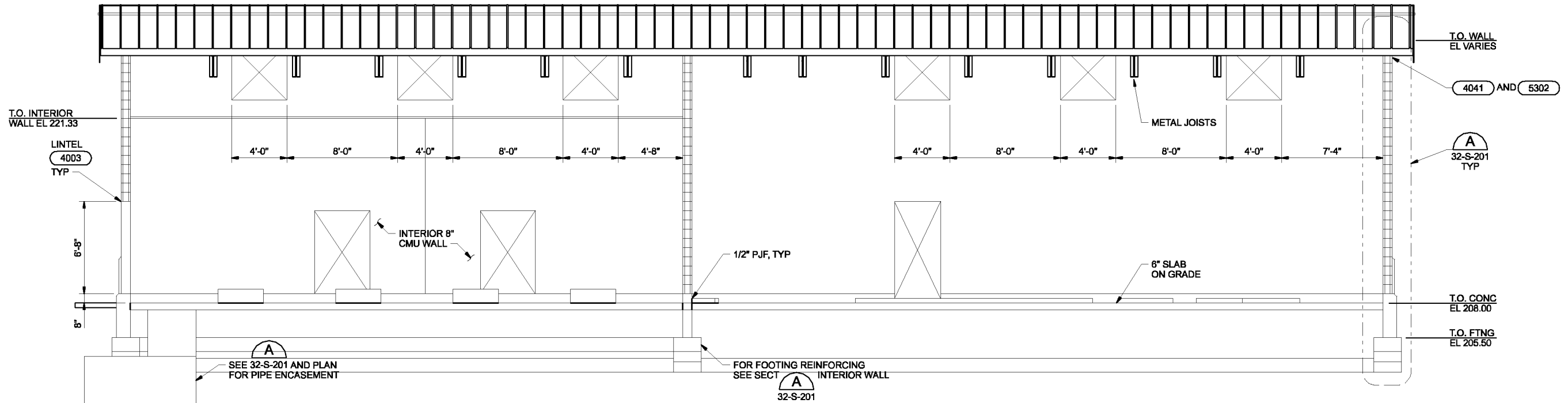
32-S-131
32-S-151
32-S-202

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| | | | | | | | | | | | | | | |
|------|-------------|-----|------|----------|----|------|-----|-----|---|--|---|--|-------|-------------|
| DSGN | MJ MERKLEIN | NO. | DATE | REVISION | BY | APVD | CRO | RAH | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | | WASTEWATER SYSTEM IMPROVEMENTS PROJECT WWTP-03-01 LINN COUNTY, OREGON | AERATION BLOWER BUILDING STRUCTURAL SECTION | SHEET | 361 |
| DR | KJ DAVIS | | | | | | | | | | | | DWG | 32-S-201 |
| CHK | SM FREY | | | | | | | | | | | | DATE | MAY 19 2006 |
| APVD | CW MASSIE | | | | | | | | | | | | PROJ | 326918 |

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1 2 3 4 5 6



SECTION B
1/4"=1'-0" 32-S-131
32-S-151

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| | | | | | | |
|------|-------------|-----|------|----------|----|------|
| DSGN | MJ MERKLEIN | NO. | DATE | REVISION | BY | APVD |
| DR | KJ DAVIS | | | | | |
| CHK | SM FREY | | | | | |
| APVD | CW MASSIE | | | | | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1'
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

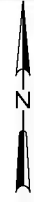


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

AERATION BLOWER BUILDING
STRUCTURAL SECTION

| | |
|-------|-------------|
| SHEET | 362 |
| DWG | 32-S-202 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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RETAIN EXHAUST FANS

24" ALP. ABANDON IN PLACE

CHAIN-LINK FENCE

CUT OFF 24" ALP. 6" BELOW GRADE. BACKFILL AND COMPACT HOLE

EXIST BLOWER (TYP OF 4)

SALVAGE GENERATOR. TURN OVER TO OWNER. REMOVE ASSOCIATED CONDUIT

HOT WATER UNIT HEATER

DEMOLISH PANELS, PADS AND CONDUIT (TYP)
DEMOLISH ALL EXISTING AIR PIPING AND SUPPORTS

BOILER SHUT-OFF

EXISTING BOILER NO. 2 AND CONCRETE PAD

CONTROL PANELS AND PADS

AIR COMPRESSOR. TURN OVER TO OWNER

CONTROL PANEL AND PAD

CONTROL PANEL

EXIST BOILER NO. 1

SALVAGE UPS PANEL. TURN OVER TO OWNER

BOILER SHUT-OFF

HOT WATER UNIT HEATER

DEMOLISH PIPING, CONDUIT, AND SUPPORTS ASSOCIATED WITH BLOWERS, BOILER AND UNIT HEATERS

DEMOLITION PLAN

3/8"=1'-0"



THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY BRIAN W. HEMPHILL, STATE OF OREGON, P.E. NO. 9,320.

| | | | | | |
|--------|-------------|----------|------|----------|-------|
| DESIGN | BW HEMPHILL | | | | |
| DR | M. GADE | | | | |
| CHK | TR THORPE | 01/20/10 | | | |
| APRVD | RS SHAWLEY | NO. | DATE | REVISION | BY |
| | | | | | APRVD |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



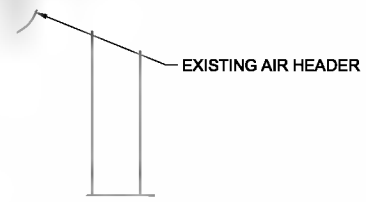
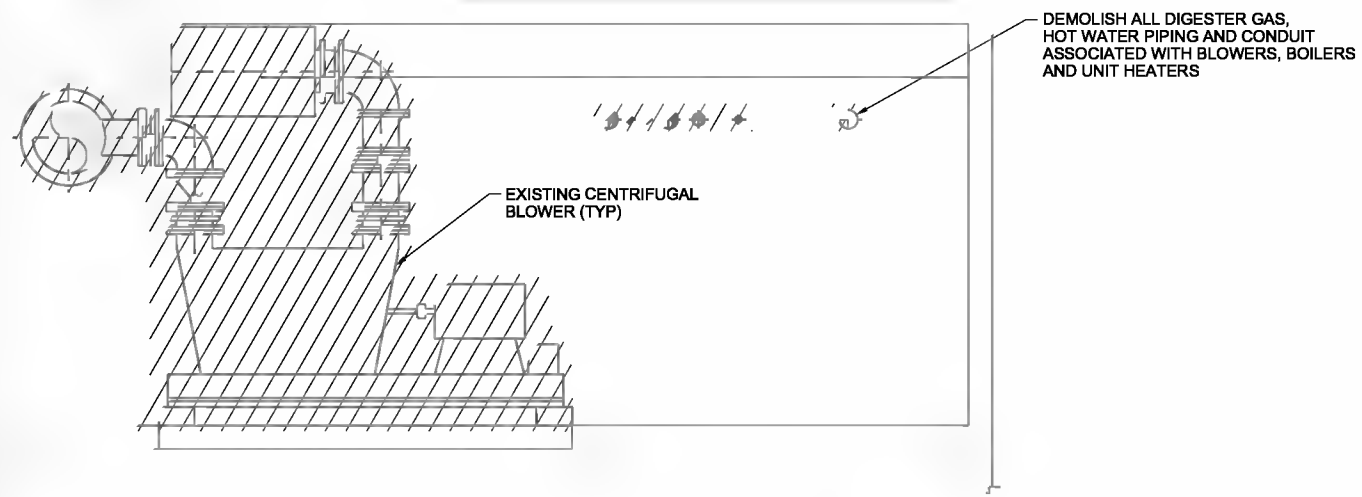
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INTERCHANGE REACTOR BLOWER BUILDING
DEMOLITION PLAN

| | |
|-------|-------------|
| SHEET | 363 |
| DWG | 35-D-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

FILENAME: 35dnt140d_326918.dwg PLOT DATE: 6/10/2010 PLOT TIME: 5:46:04 PM

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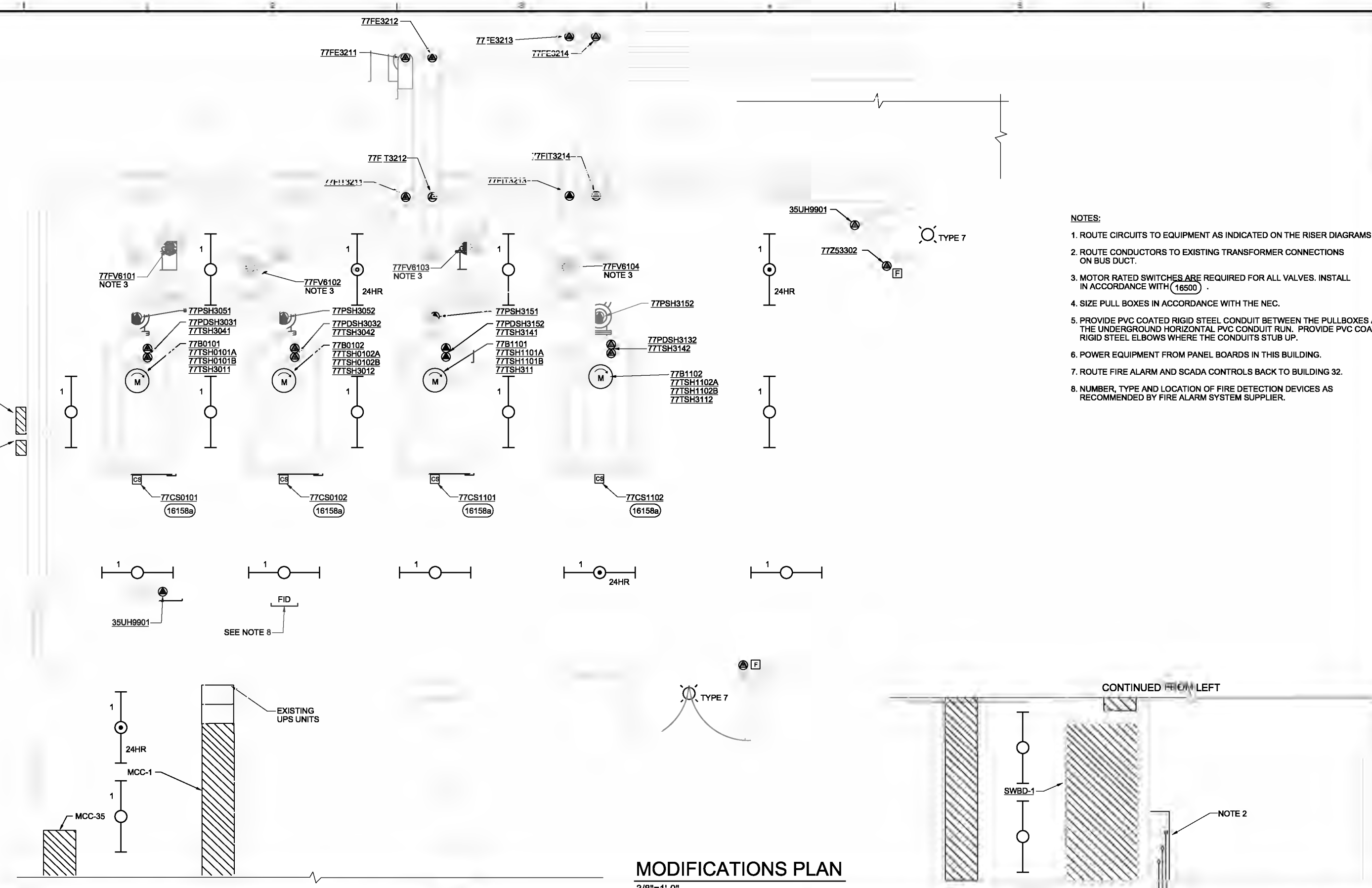
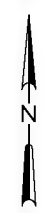


SECTION A
3/8"=1'-0" 35-D-141

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY BRIAN W. HEMPHILL, STATE OF OREGON, P.E. NO. 9,320.

| | | | | |
|---|--------------------------------------|-------------------------|--|----------------------------|
| DESIGNED BY B. W. HEMPHILL | CHECKED BY M. J. [unclear] | DATE 05/06/06 | PROJECT WASTEWATER TREATMENT PLANT | SHEET NO. 364 |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | | BRK AGC | DWG 35-D-201 |
| VERIFIED SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 ——— 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | | | CH2MHILL CAROLLO ENGINEERS | DATE MAY 19 2006 |
| CITY OF ALBANY SYSTEM IMPROVEMENTS PROJECT WWTP-03-01 LINN COUNTY, OREGON | | | INTERCHANGE REACTOR BLOWER BUILDING DEMOLITION SECTION | PROJ 326918 |

REUSE OF DOCUMENTS: CH2M HILL



- NOTES:**
1. ROUTE CIRCUITS TO EQUIPMENT AS INDICATED ON THE RISER DIAGRAMS
 2. ROUTE CONDUCTORS TO EXISTING TRANSFORMER CONNECTIONS ON BUS DUCT.
 3. MOTOR RATED SWITCHES ARE REQUIRED FOR ALL VALVES. INSTALL IN ACCORDANCE WITH 16500.
 4. SIZE PULL BOXES IN ACCORDANCE WITH THE NEC.
 5. PROVIDE PVC COATED RIGID STEEL CONDUIT BETWEEN THE PULLBOXES AND THE UNDERGROUND HORIZONTAL PVC CONDUIT RUN. PROVIDE PVC COATED RIGID STEEL ELBOWS WHERE THE CONDUITS STUB UP.
 6. POWER EQUIPMENT FROM PANEL BOARDS IN THIS BUILDING.
 7. ROUTE FIRE ALARM AND SCADA CONTROLS BACK TO BUILDING 32.
 8. NUMBER, TYPE AND LOCATION OF FIRE DETECTION DEVICES AS RECOMMENDED BY FIRE ALARM SYSTEM SUPPLIER.

35PBX01
NOTES 4, 5

35PBX01A
NOTES 4, 5

77CS0101 (16158a)

77CS0102 (16158a)

77CS1101 (16158a)

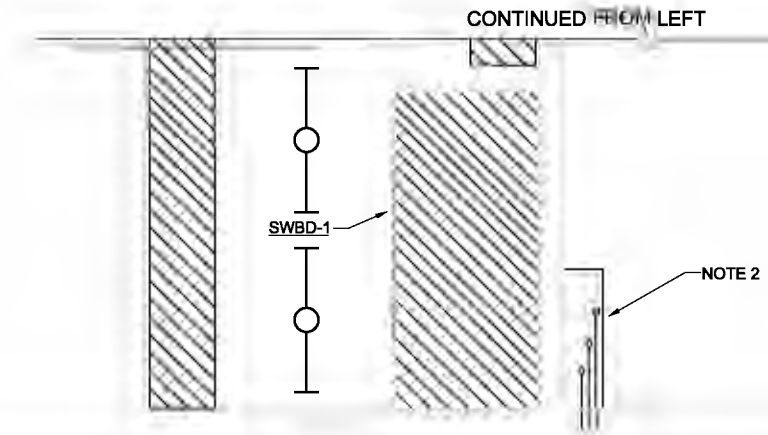
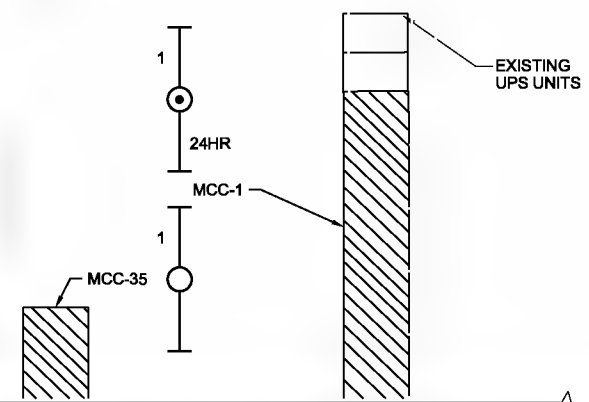
77CS1102 (16158a)

35UH9901

FID

SEE NOTE 8

24HR



MODIFICATIONS PLAN
3/8"=1'-0"

CONTINUED AT RIGHT

CONTINUED FROM LEFT

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY GREG OEBBIS STATE OF OREGON, P.E. NO. 77,671.

| | | |
|---------------------|----------------|-----------|
| DESIGN: VAL RODGERS | DATE: 01/20/10 | REVISION: |
| DR: BR GAVE | NO.: | DATE: |
| CHK: GUY BROWN | BY: | DATE: |
| APR: RS SHAWLEY | NO.: | DATE: |

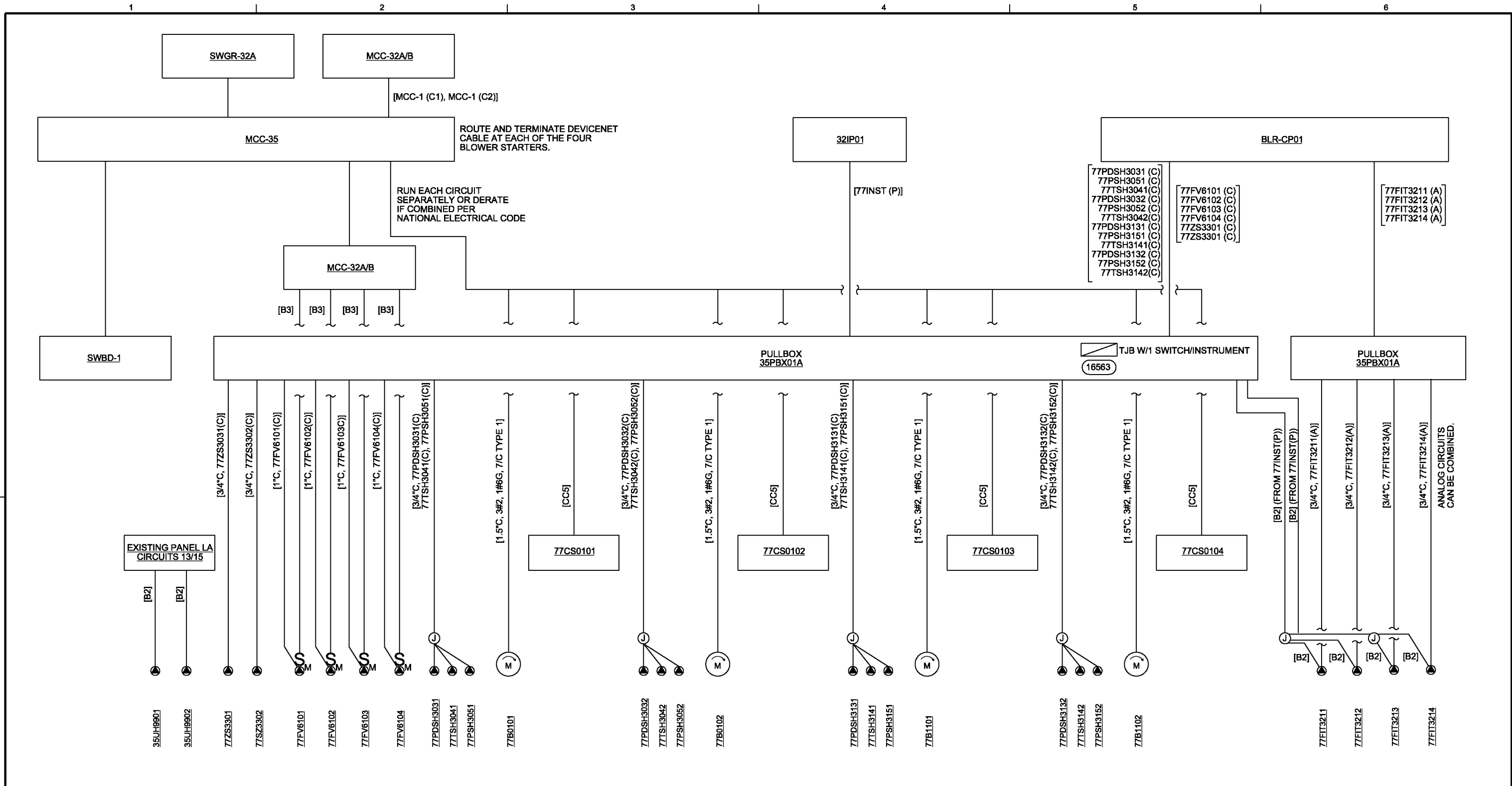


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INTERCHANGE REACTOR BLOWER BUILDING
PROCESS AND FACILITY PLAN

| | |
|-------|-------------|
| SHEET | 365 |
| DWG | 35-E-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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INTERCHANGE REACTOR BLOWER BUILDING RISER DIAGRAM

- NOTES:**
- REFER TO SITE ROUTED CONDUIT SCHEDULE FOR CONDUIT SIZE AND ROUTING OF CIRCUITS FROM PULLBOX TO PANELS LOCATED INSIDE THE ELECTRICAL ROOM.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY GREG DEBOIS STATE OF OREGON, P.E. NO. 77,671.

| | | | | | | |
|---|------------|-----|------|----------|-----|------|
| DSGN | BR RODGERS | NO. | DATE | REVISION | BY | APVD |
| DR | RB CAVE | | | | | |
| CHK | GJ DeBOIS | | | | | |
| APVD | RS SHANLEY | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | | | | | |
| | | | | GRW | KLM | |

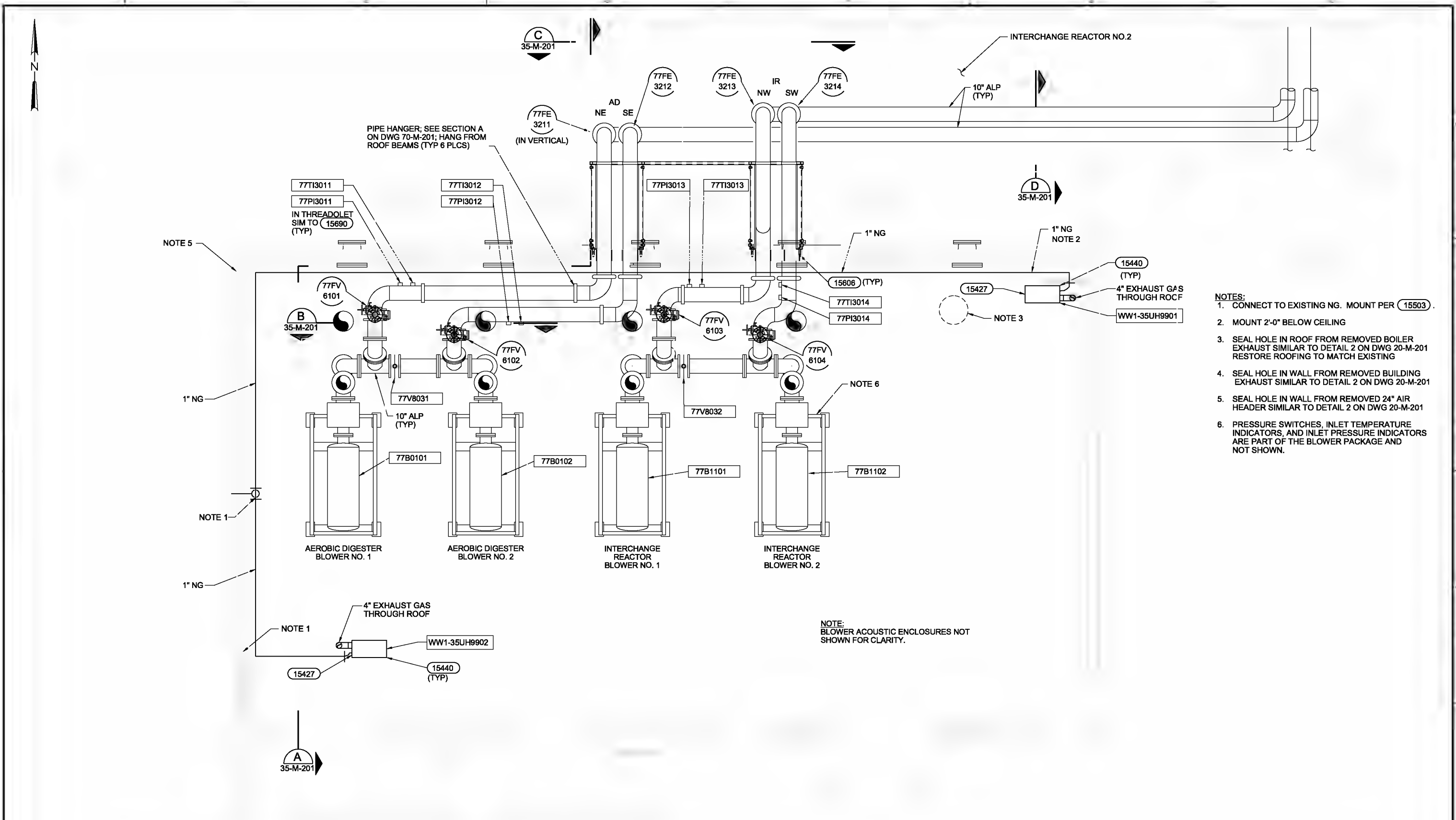


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INTERCHANGE REACTOR BLOWER BUILDING
RISER DIAGRAM

| | |
|-------|-------------|
| SHEET | 366 |
| DWG | 35-E-501 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
- CONNECT TO EXISTING NG. MOUNT PER (15503)
 - MOUNT 2'-0" BELOW CEILING
 - SEAL HOLE IN ROOF FROM REMOVED BOILER EXHAUST SIMILAR TO DETAIL 2 ON DWG 20-M-201 RESTORE ROOFING TO MATCH EXISTING
 - SEAL HOLE IN WALL FROM REMOVED BUILDING EXHAUST SIMILAR TO DETAIL 2 ON DWG 20-M-201
 - SEAL HOLE IN WALL FROM REMOVED 24" AIR HEADER SIMILAR TO DETAIL 2 ON DWG 20-M-201
 - PRESSURE SWITCHES, INLET TEMPERATURE INDICATORS, AND INLET PRESSURE INDICATORS ARE PART OF THE BLOWER PACKAGE AND NOT SHOWN.

NOTE:
BLOWER ACOUSTIC ENCLOSURES NOT SHOWN FOR CLARITY.

MODIFICATIONS PLAN

3/8"=1'-0"

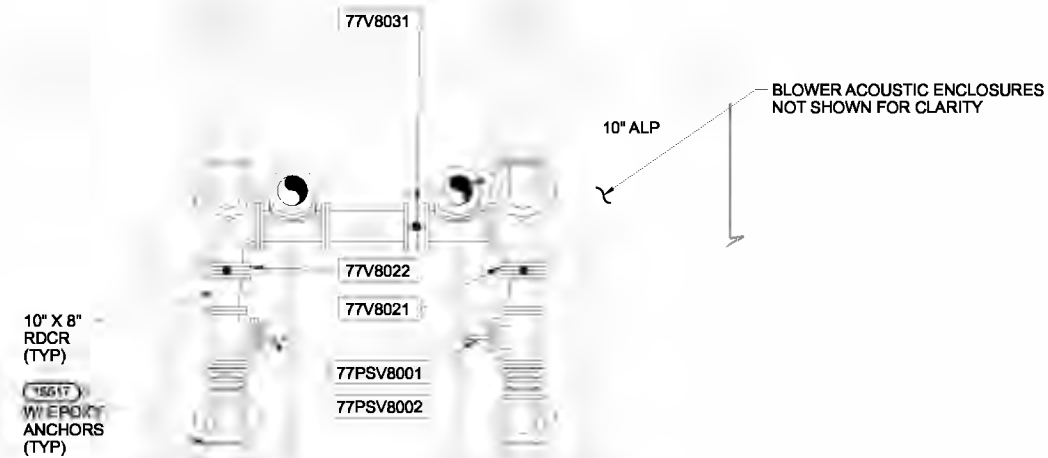
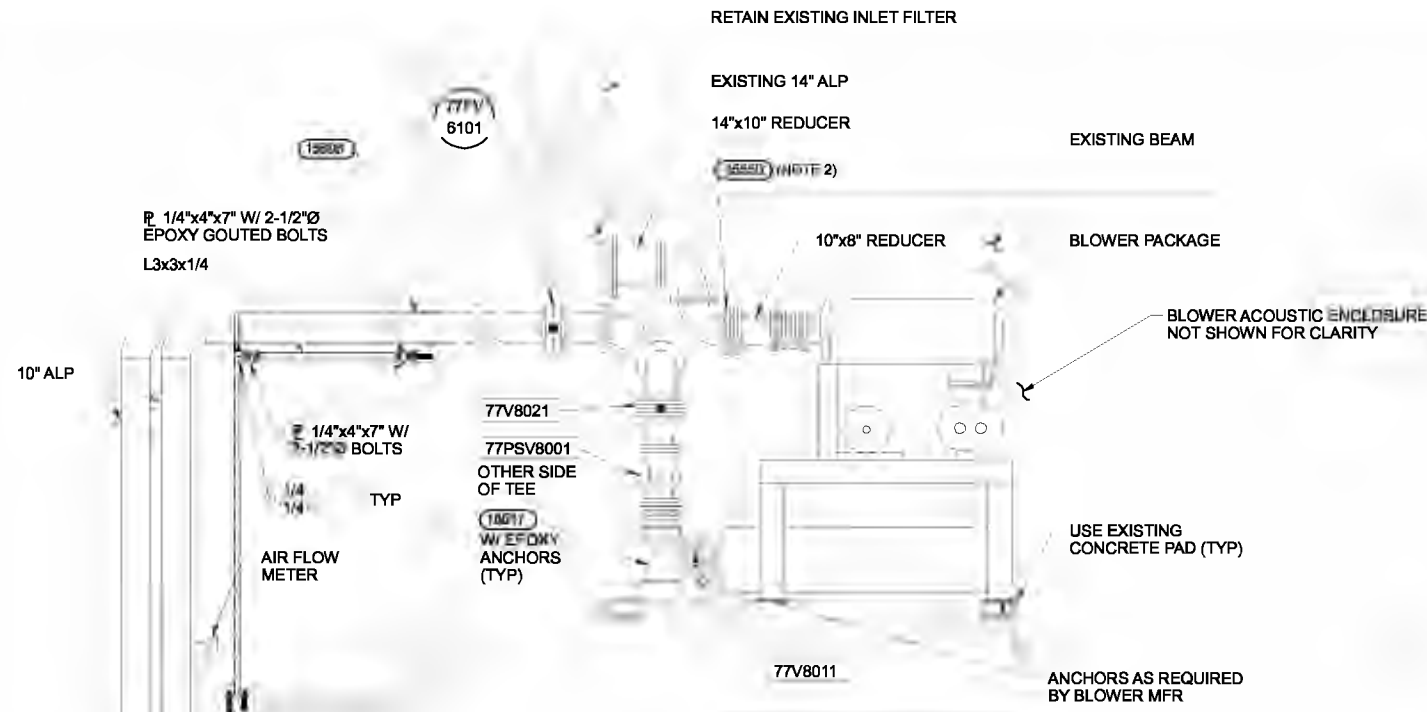
THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY BRIAN W. HEMPHILL, STATE OF OREGON, P.E. NO. 9,320.

| | | | | | | | | |
|--|----------------------------|---|---------------------|---|--|--|---|--|
| DESIGNED BY: B.W. HEMPHILL CHECKED BY: M. GARDNER DRAWN BY: T. HENRIE APPROVED BY: R.S. SHAWLEY | DATE: 01/20/10 NO. DATE | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | BRK AGC BY: APVD | VERIFIED SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | | CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENTS PROJECT WWTP-03-01 LINN COUNTY, OREGON | INTERCHANGE REACTOR BLOWER BUILDING PLAN | SHEET: 367 DWG: 35-M-141 DATE: MAY 19 2006 PROJ: 326916 |
|--|----------------------------|---|---------------------|---|--|--|---|--|

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RETAIN EXISTING
INLET FILTERS

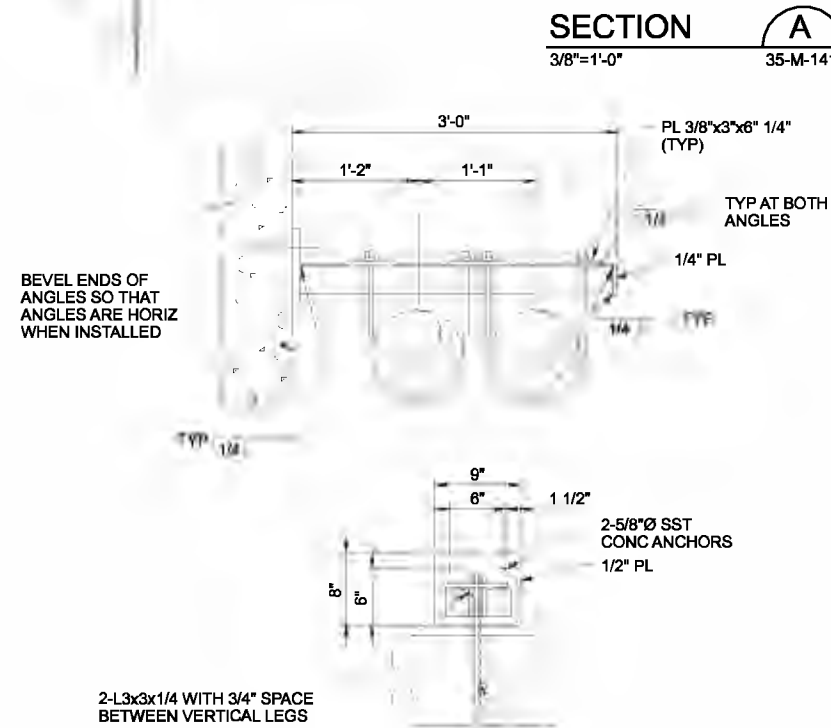
- NOTE:
1. FIELD VERIFY ALL DIMENSIONS
2. USE WITH B-LINE FIG B308S CONCRETE PLATE WITH EPOXY ANCHORS.



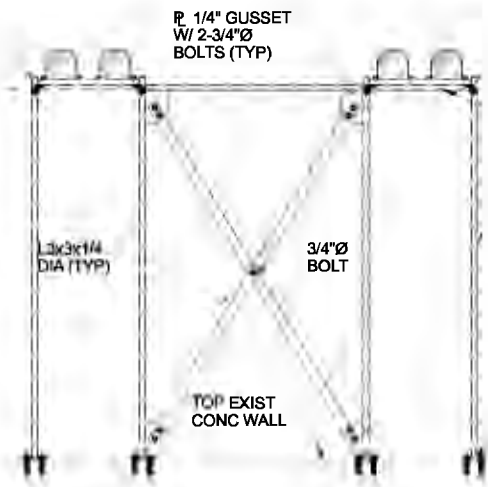
NOTE: ARRANGEMENT SAME FOR OTHER BLOWER SET

SECTION B
3/8"=1'-0" 35-M-141

SECTION A
3/8"=1'-0" 35-M-141



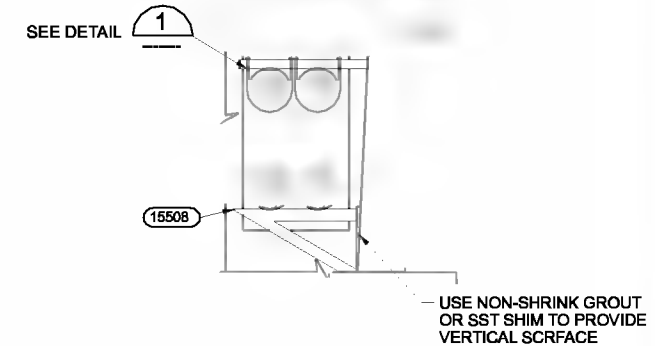
PRE FORMED CHANNEL
W/ CLAMPS FOR 10"Ø
PIPE
BRACE TO WALL
TYP EA COL



1/4" CAP PLATE

HSS 2x2x1/4 BEAM (TYP)
WELD TO COLUMN W/
1/4" FILLET WELDS
HSS 2x2x1/4 COL, (TYP)

1/2"x8"x8" W/ 4-1/2"Ø EPOXY
GROUTED BOLTS W/ MIN 6" EMBED



SECTION D
3/8"=1'-0" 35-M-141

- NOTES:
1. HOT DIP GALVANIZE AFTER FABRICATION.
PROVIDE VENT HOLES IN TUBE SECTIONS
2. ALL BOLTS AND CONC ANCHORS TO BE
HOT DIPPED GALVANIZED.

SECTION C
3/8"=1'-0" 35-M-141

DETAIL 1
3/8"=1'-0"

| | | | | | | | |
|---|-------------|-----|------|----------|-----|-----|------|
| DSGN | BW HEMPHILL | NO. | DATE | REVISION | BRK | AGC | APVD |
| DR | E LONGORIA | | | | | | |
| CHK | TR TEKIPPE | | | | | | |
| APVD | RS SHANLEY | | | | | | |
| | | | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | | | | | | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

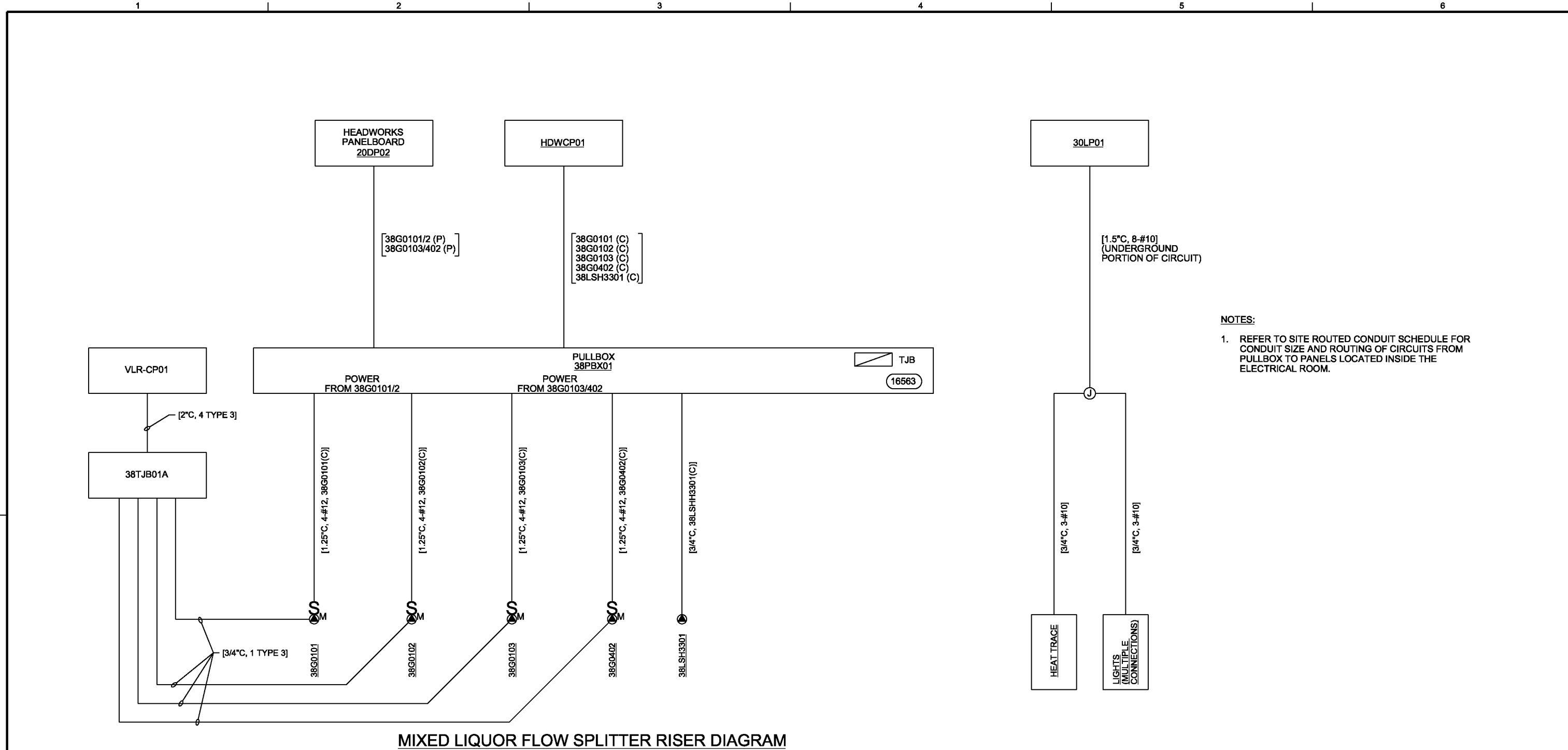


WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INTERCHANGE REACTOR BLOWER BUILDING
SECTION AND DETAILS

| | |
|-------|-------------|
| SHEET | 368 |
| DWG | 35-M-201 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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MIXED LIQUOR FLOW SPLITTER RISER DIAGRAM

NOTES:

- REFER TO SITE ROUTED CONDUIT SCHEDULE FOR CONDUIT SIZE AND ROUTING OF CIRCUITS FROM PULLBOX TO PANELS LOCATED INSIDE THE ELECTRICAL ROOM.

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| | | | | | | | | | |
|------|------------|----------|------|----------|----|------|--|--|--|
| DSGN | BR RODGERS | | | | | | | | |
| DR | RB CAVE | | | | | | | | |
| CHK | GJ DeBOIS | 01/20/10 | | | | | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY | APVD | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

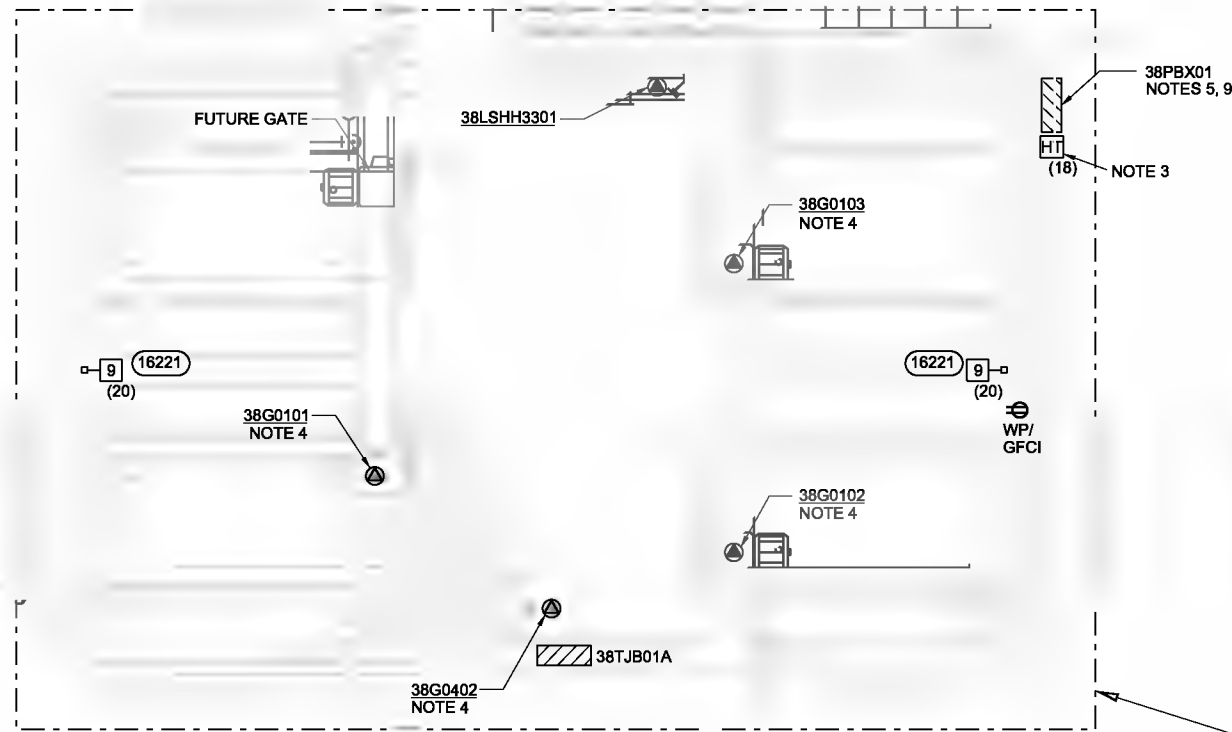
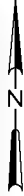


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

MIXED LIQUOR (ML) FLOW SPLIT STRUCTURE
RISER DIAGRAM

| | |
|-------|-------------|
| SHEET | 369 |
| DWG | 38-E-501 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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PLAN
3/8"=1'-0"

NOTES:

1. THE STRUCTURE IS A CLASS I, DIVISION 2, GROUP D AREA WITHIN THE ENVELOPE SHOWN AND AS DESCRIBED ON 91-E-532. NOTE THAT THE ENVELOPE SPREADS TO TEN FEET AROUND THE FLOW CONTROL STRUCTURE BELOW 18 INCHES ABOVE GROUND LEVEL. ALL EQUIPMENT WITHIN THE ENVELOPE SHALL BE RATED FOR USE IN THIS AREA CLASSIFICATION AND SHALL CONFORM TO THE SPECIFICATIONS AND THE NATIONAL ELECTRIC CODE.
2. ROUTE CIRCUITS TO EQUIPMENT AS INDICATED ON THE RISER DIAGRAMS.
3. PROVIDE HEAT TRACING PER SPECIFICATIONS
4. MOTOR RATED SWITCHES ARE REQUIRED FOR ALL GATES PER 16500 .
5. SIZE PULLBOXES IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. MOUNT 24 INCHES ABOVE THE TOP OF THE TANK WALL.
6. FOR LUMINAIRE SCHEDULE AND NOTES, SEE DWG 91-E-531.
7. LIGHTS AND RECEPTACLES ON THIS DRAWING ARE POWERED FROM 30LP01.
8. SEE 01-G-25 FOR GENERAL NOTES FOR LIGHTING SYSTEM AND GENERAL NOTES FOR POWER AND SIGNAL SYSTEMS.
9. PROVIDE PVC COATED RIGID STEEL CONDUIT BETWEEN THE PULLBOXES AND THE UNDERGROUND HORIZONTAL PVC CONDUIT RUN. PROVIDE PVC COATED RIGID STEEL ELBOWS WHERE THE CONDUITS STUB UP.

CLASS I, DIVISION 2
AREA, SEE NOTE 1

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| | | | | | | | |
|----------|----------|------|-----|------|----------|----|----------|
| DESIGN | DR | DATE | NO. | DATE | REVISION | BY | APPROVED |
| DR | REVISION | | | | | | |
| CHK | DATE | | | | | | |
| APPROVED | DATE | | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

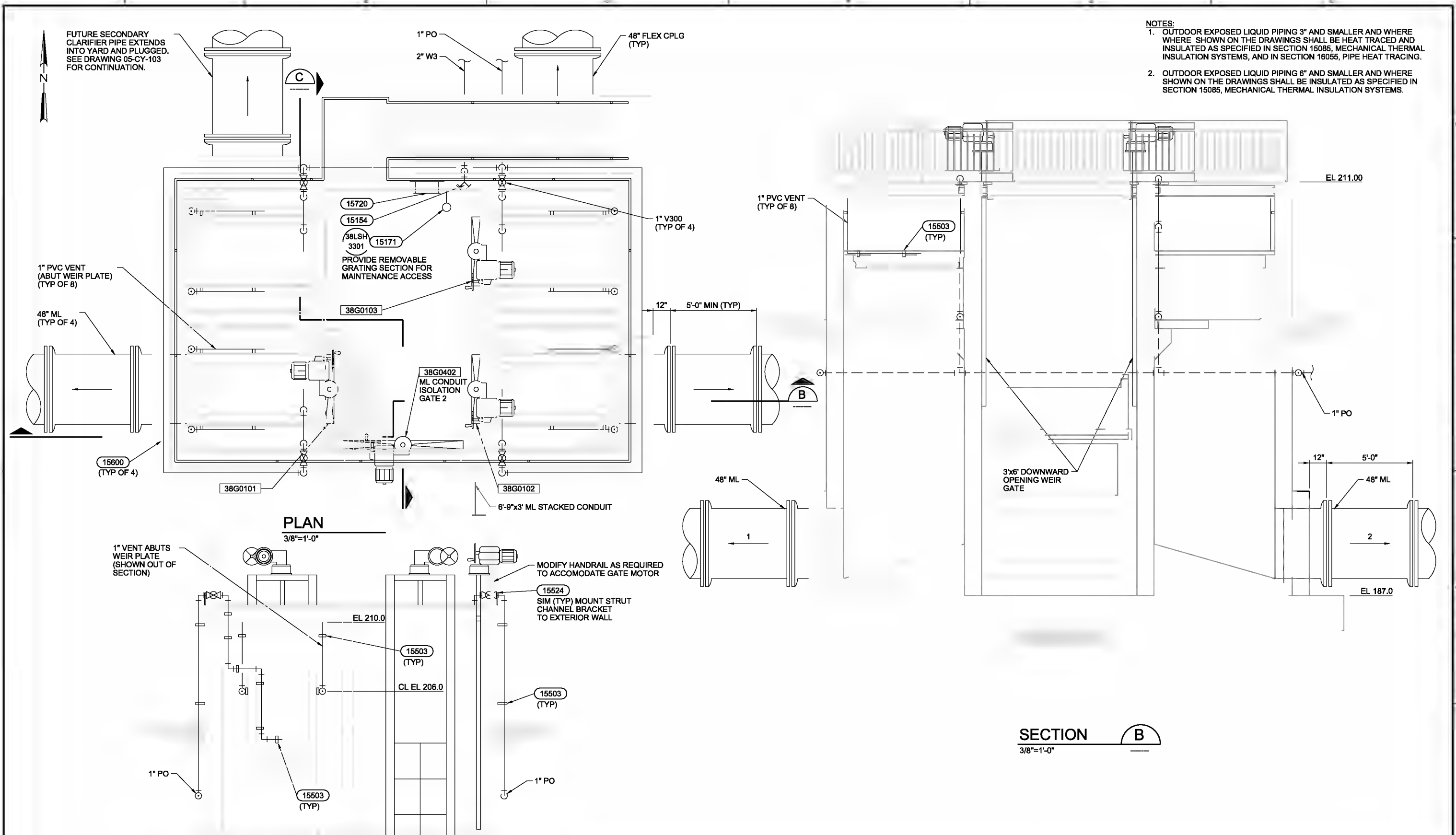
MIXED LIQUOR (ML) FLOW SPLIT STRUCTURE

PLAN

| | |
|-------|-------------|
| SHEET | 370 |
| DWG | 38-E-131 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
1. OUTDOOR EXPOSED LIQUID PIPING 3" AND SMALLER AND WHERE SHOWN ON THE DRAWINGS SHALL BE HEAT TRACED AND INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS, AND IN SECTION 16055, PIPE HEAT TRACING.
 2. OUTDOOR EXPOSED LIQUID PIPING 6" AND SMALLER AND WHERE SHOWN ON THE DRAWINGS SHALL BE INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS.



PLAN
3/8"=1'-0"

SECTION B
3/8"=1'-0"

SECTION C
3/8"=1'-0"

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| | | | | | | |
|--------|---------------|-----|----------|----------|-----|----------|
| DESIGN | M. HATALINICH | NO. | DATE | REVISION | BY | APPROVED |
| DR | M. GADE | | | | | |
| CHK | R. THOMPSON | | 01/20/10 | | SMH | AGC |
| APPR | R. S. SHANLEY | | | | | |

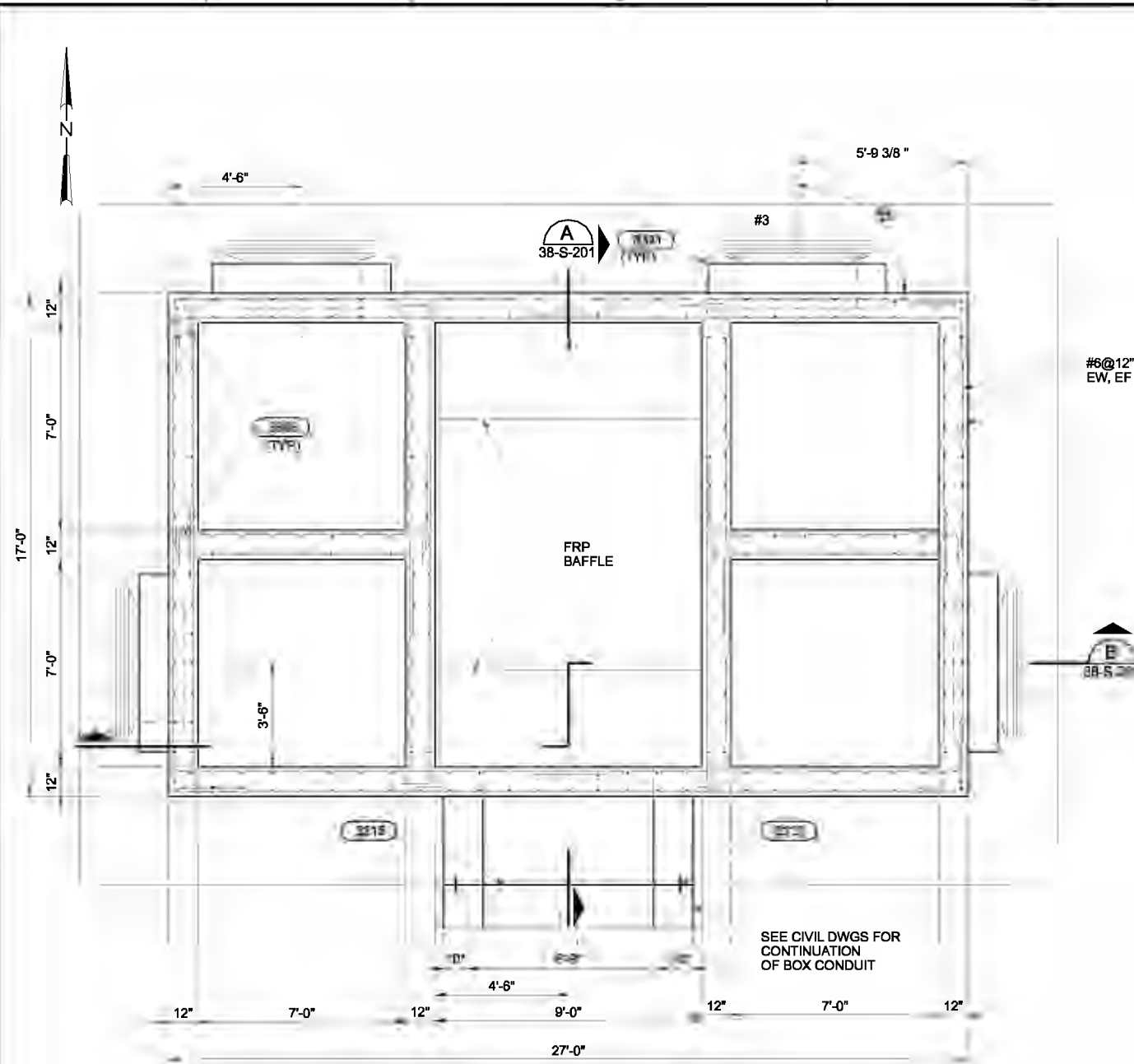


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

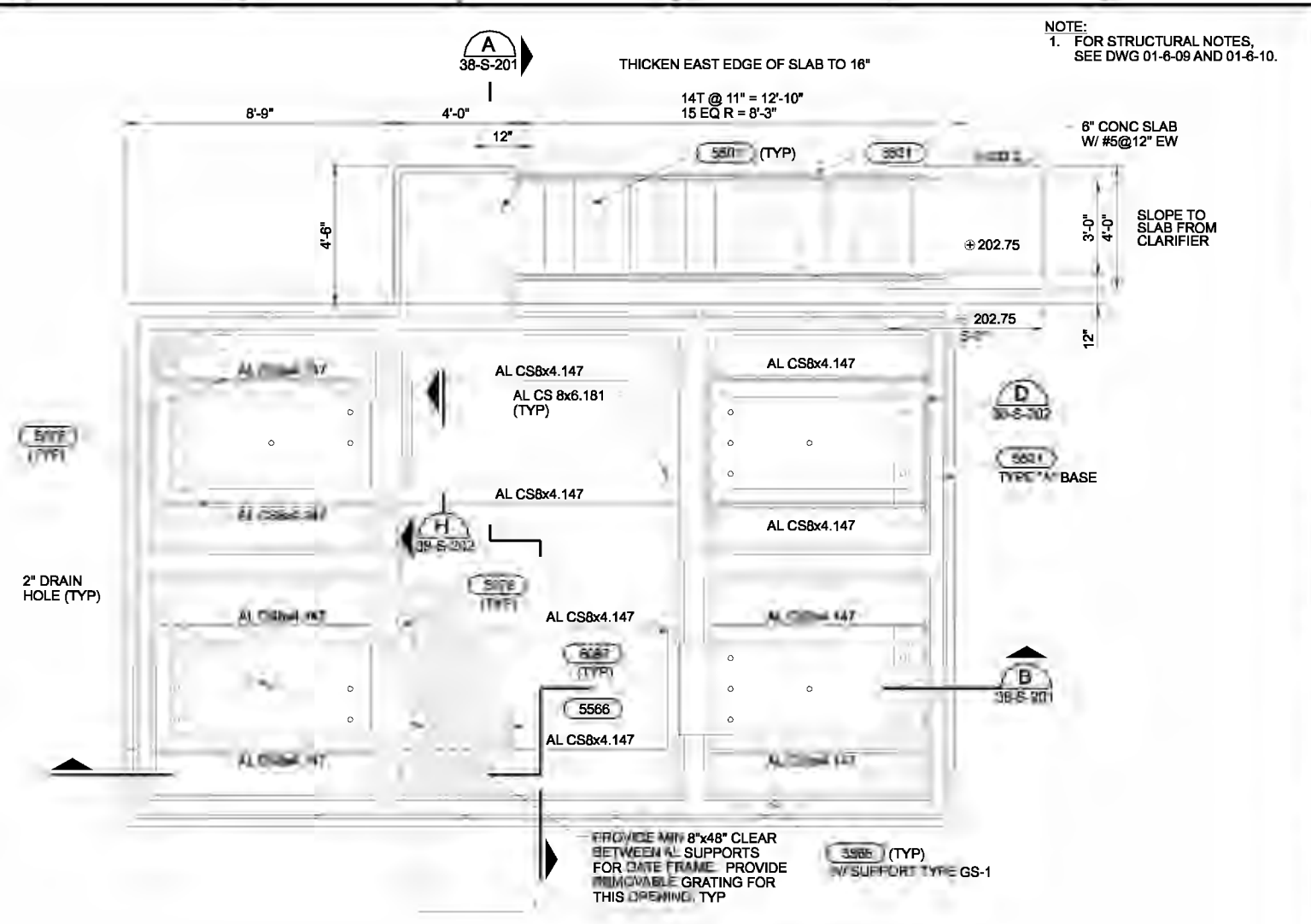
MIXED LIQUOR (ML) FLOW SPLIT STRUCTURE
PLAN AND SECTION

| | |
|-------|-------------|
| SHEET | 371 |
| DWG | 38-M-131 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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BOTTOM PLAN
3/8"=1'-0"



TOP PLAN
3/8"=1'-0"

NOTE:
1. FOR STRUCTURAL NOTES, SEE DWG 01-6-09 AND 01-6-10.

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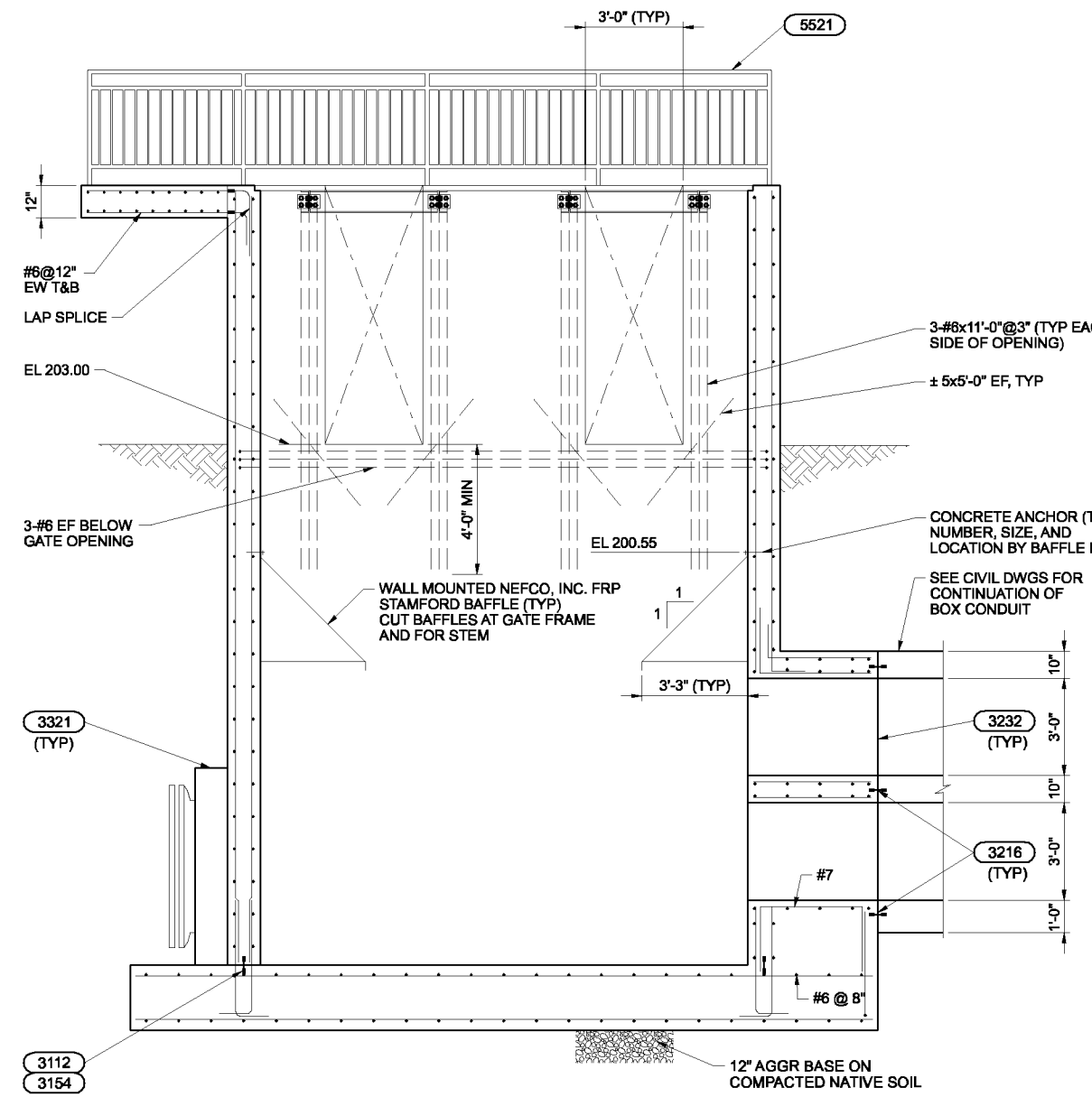
| | | | | | | |
|------|------------|-----|------|----------|----|------|
| DSGN | KAMARTIN | NO. | DATE | REVISION | BY | APVD |
| DR | MJ GABEL | | | | | |
| CHK | CA GENTRY | | | | | |
| APVD | RS SHANLEY | | | | | |

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|---|
| VERIFY SCALE |
| BAR IS ONE INCH ON ORIGINAL DRAWING. |
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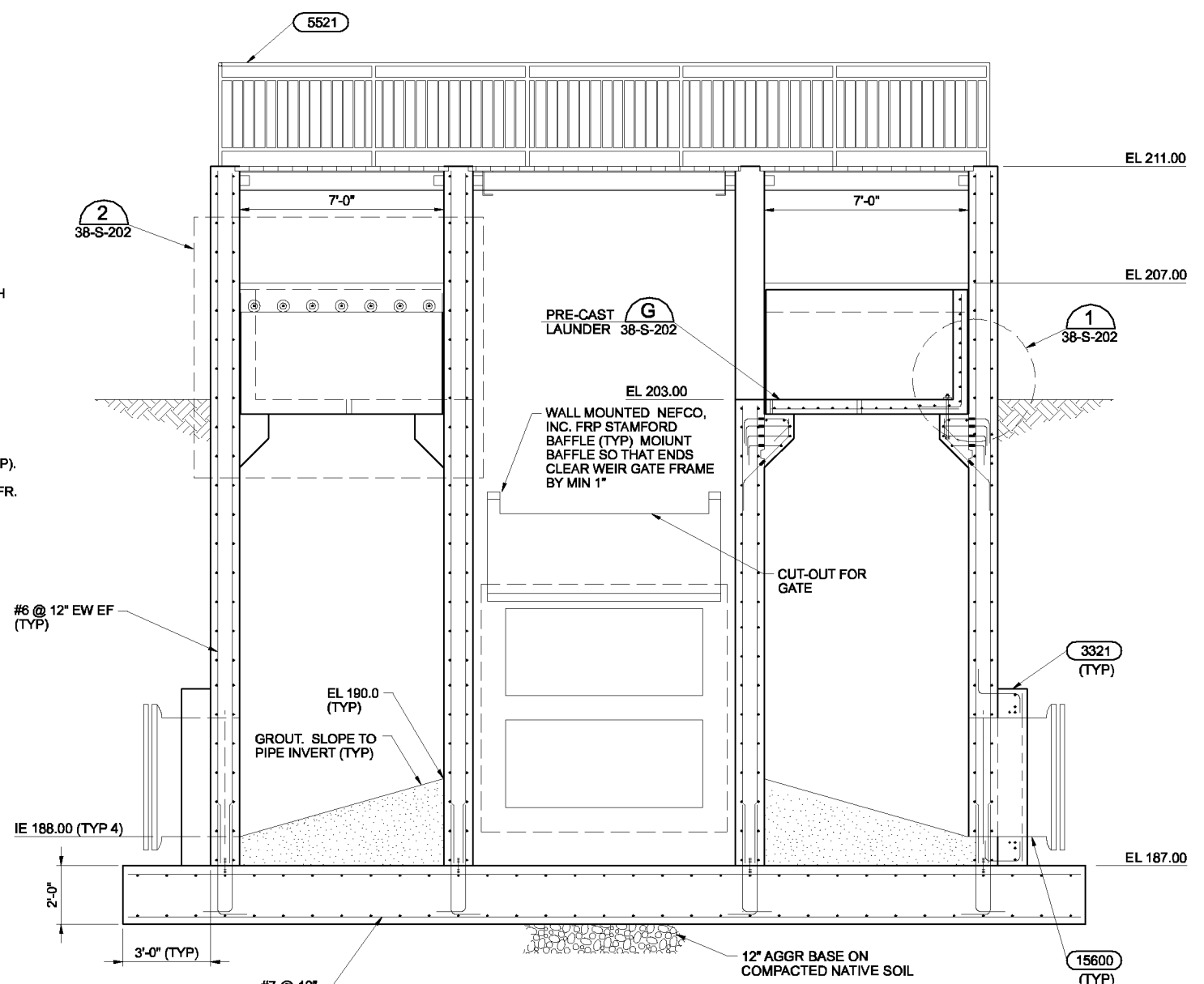


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

| | | |
|--|-------|-------------|
| MIXED LIQUOR (ML) FLOW SPLIT STRUCTURE | SHEET | 372 |
| PLANS | DWG | 38-S-131 |
| | DATE | MAY 19 2006 |
| | PROJ | 326918 |



SECTION A
3/8"=1'-0" 38-S-131



SECTION B
3/8"=1'-0" 38-S-131

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KIPP A. MARTIN STATE OF OREGON, P.E. NO. 16,276.

| | | | | | | | |
|------|------------|--|-----|------|----------|----|------|
| DSGN | KA MARTIN | | NO. | DATE | REVISION | BY | APVD |
| DR | MJ GABEL | | | | | | |
| CHK | CA GENTRY | | | | | | |
| APVD | RS SHANLEY | | | | | | |
| | | | | | | | |
| | 01/20/10 | | | | | | |

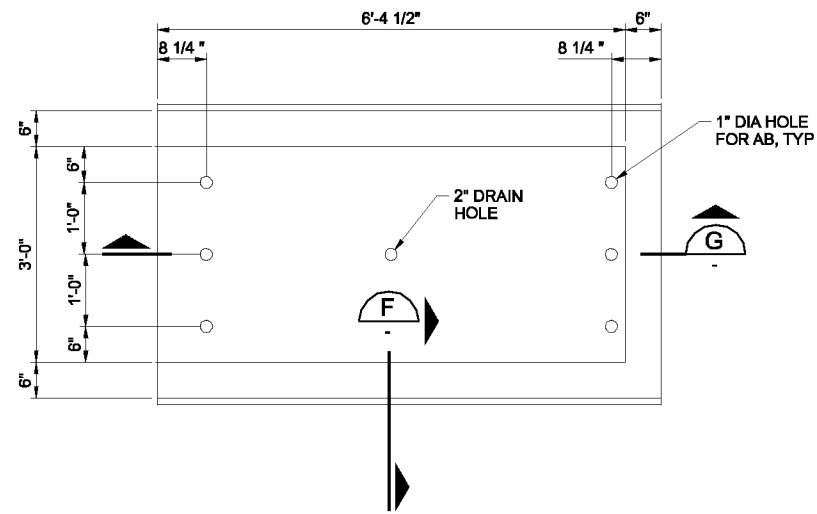
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



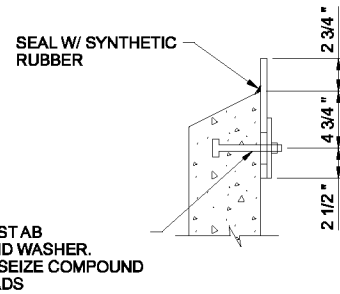
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

| | | |
|--|-------|-------------|
| MIXED LIQUOR (ML) FLOW SPLIT STRUCTURE | SHEET | 373 |
| SECTIONS | DWG | 38-S-201 |
| | DATE | MAY 19 2006 |
| | PROJ | 326918 |

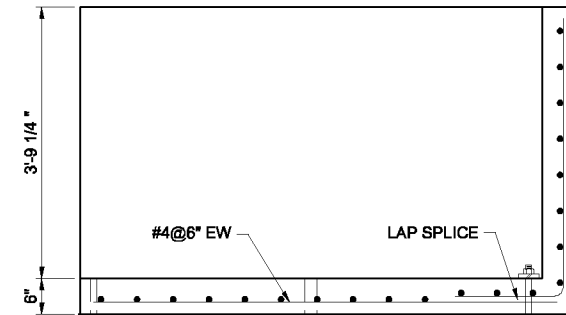
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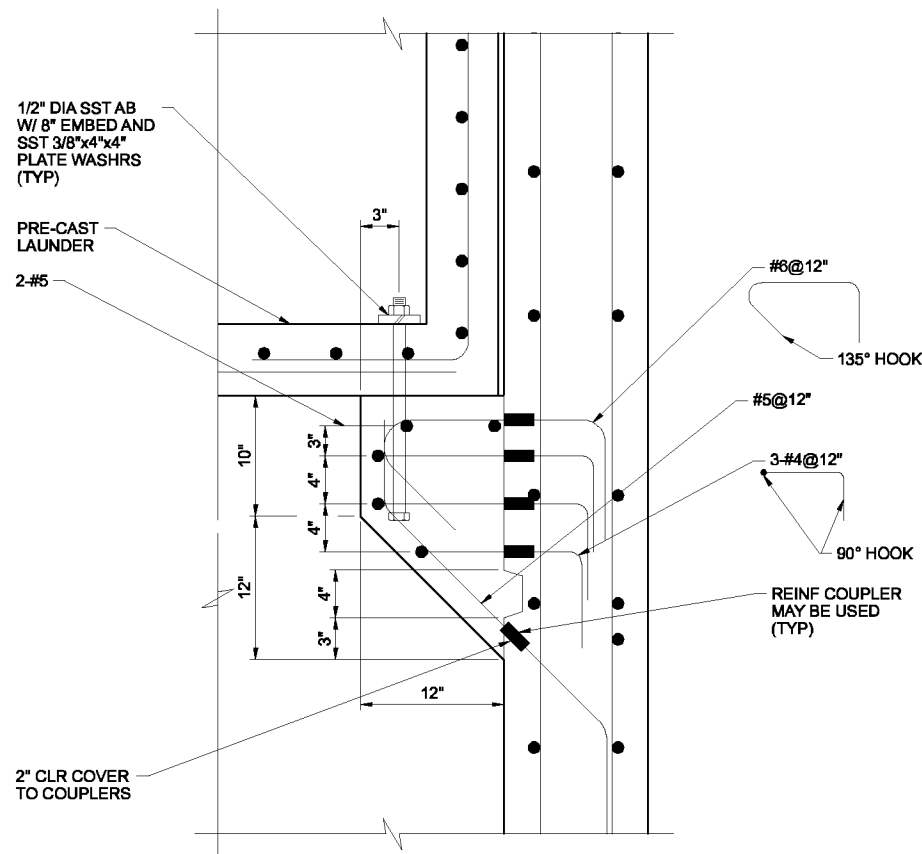
PARTIAL PLAN D
3/4"=1'-0" 38-S-131



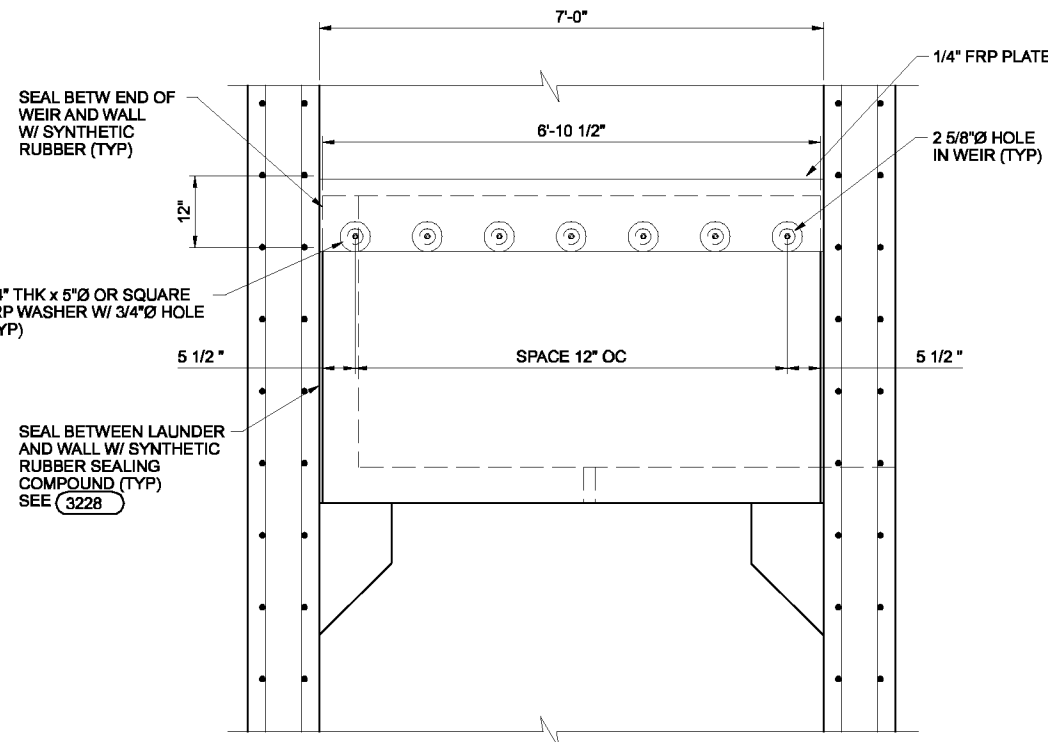
SECTION F
1 1/2"=1'-0"



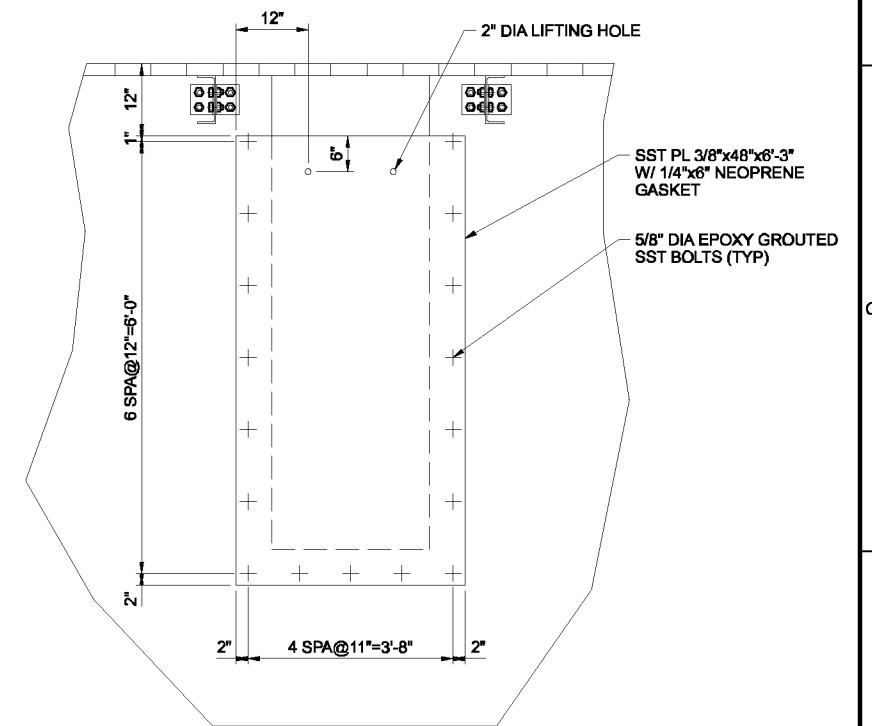
SECTION G
3/4"=1'-0"



DETAIL 1
1 1/2"=1'-0" 38-S-201



DETAIL 2
3/4"=1'-0" 38-S-201



SECTION H
3/4"=1'-0" 38-S-131

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| | | | | | | |
|---|------------|----------|------|----------|-----|------|
| DSGN | KAMARTIN | NO. | DATE | REVISION | BY | APVD |
| DR | MJ GABEL | | | | | |
| CHK | CA GENTRY | | | | | |
| APVD | RS SHANLEY | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | 01/20/10 | | | SMH | AGC |

VERIFY SCALE
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0 1"
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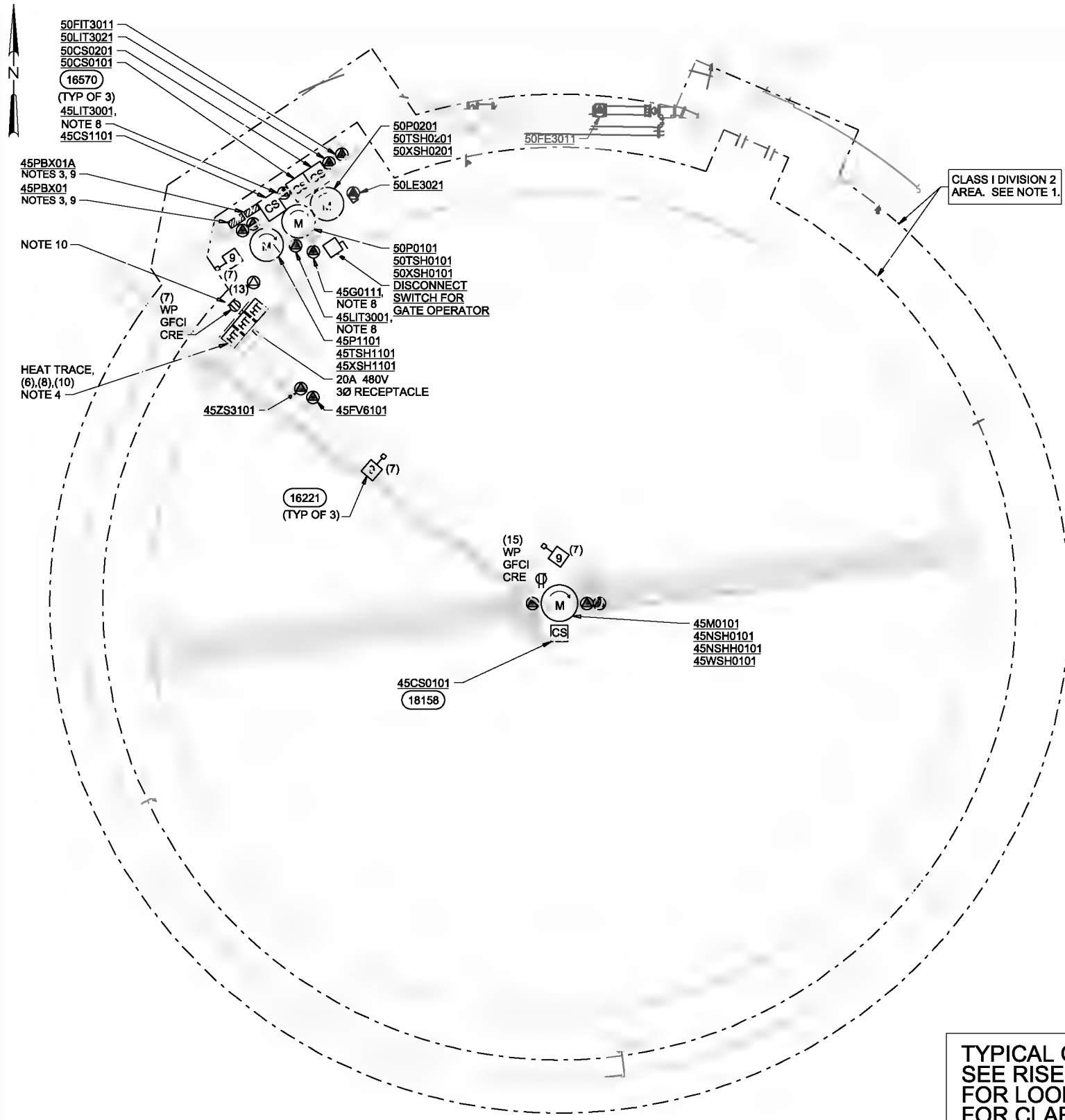


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

MIXED LIQUOR (ML) FLOW SPLIT STRUCTURE
SECTIONS AND DETAILS

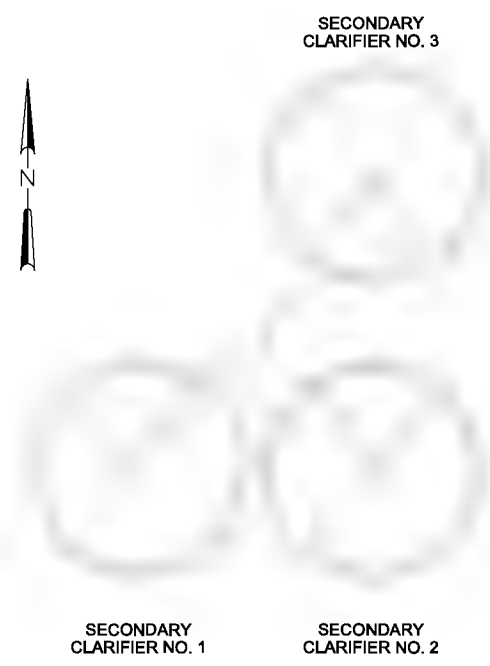
| | |
|-------|-------------|
| SHEET | 374 |
| DWG | 38-S-202 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
1. THE STRUCTURE IS A CLASS I, DIVISION 2, GROUP D AREA WITHIN THE ENVELOPE SHOWN AND AS DESCRIBED ON 91-E-532. NOTE THAT THE ENVELOPE SPREADS TO TEN FEET AROUND THE CLARIFIER BELOW 18 INCHES ABOVE GROUND LEVEL. ALL EQUIPMENT WITHIN THE ENVELOPE SHALL BE RATED FOR USE IN THIS AREA CLASSIFICATION AND SHALL CONFORM TO THE SPECIFICATIONS AND THE NATIONAL ELECTRIC CODE.
 2. ROUTE CIRCUITS TO EQUIPMENT AS INDICATED ON THE RISER DIAGRAMS.
 3. SIZE PULL BOXES IN ACCORDANCE WITH THE NEC. MOUNT 24 INCHES ABOVE TOP OF TANK WALL.
 4. PROVIDE HEAT TRACING PER SPECIFICATIONS.
 5. FOR LUMINAIRE SCHEDULE AND NOTES, SEE DWG 91-E-531.
 6. RECEPTACLES ARE POWERED FROM 20LP02/20DP02.
 7. SEE 01-G-25 FOR GENERAL NOTES FOR LIGHTING SYSTEM AND GENERAL NOTES FOR POWER AND SIGNAL SYSTEM.
 8. MOTOR RATED SWITCHES ARE REQUIRED FOR ALL VALVES PER (16500).
 9. PROVIDE PVC COATED RIGID STEEL CONDUIT BETWEEN THE PULLBOXES AND THE UNDERGROUND HORIZONTAL PVC CONDUIT RUN. PROVIDE PVC COATED RIGID STEEL ELBOWS WHERE THE CONDUITS STUB UP.
 10. INSTALL WEATHERPROOF SWITCH AT STAIRWAY. THE LIGHT ON THE LOWER PLATFORM IS TO BE CONTROLLED BY THE PHOTOCELL IN THE HEADWORKS BUILDING VIA THE LIGHTING CONTROLLER. THE TWO LIGHTS ON THE UPPER CLARIFIER WALKWAY ARE TO BE CONTROLLED FROM THE SWITCH. SEE (1) 20-E-201.

TYPICAL OF 3 CLARIFIERS.
SEE RISER DIAGRAMS
FOR LOOP NUMBERS
FOR CLARIFIERS 2 & 3.



PLAN-SECONDARY CLARIFIER NO. 1
3/32"=1'-0"

KEY PLAN
NO SCALE

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| | | | | | |
|------|------------|----------|------|----------|----|
| DSGN | BR RODGERS | | | | |
| DR | RH CAVE | | | | |
| CHK | GJ DEBOIS | 01/20/10 | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0" = 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CH2MHILL **CAROLLO** engineers

CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

NEW SECONDARY CLARIFIERS
PROCESS AND FACILITY PLANS

| | |
|-------|-------------|
| SHEET | 375 |
| DWG | 45-E-131 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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CLARIFIER 1 RISER DIAGRAM

NOTES:

- REFER TO SITE ROUTED CONDUIT SCHEDULE FOR CONDUIT SIZE AND ROUTING OF CIRCUITS FROM PULLBOX TO PANELS LOCATED INSIDE THE ELECTRICAL ROOM.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY GREG BEBOIS STATE OF OREGON, P.E. NO. 77671.

| | | | | | | | | | |
|------|------------|----------|------|----------|----|------|--|--|--|
| DSGN | BR RODGERS | | | | | | | | |
| DR | RB CAVE | | | | | | | | |
| CHK | GJ DeBOIS | 01/20/10 | | | | | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY | APVD | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

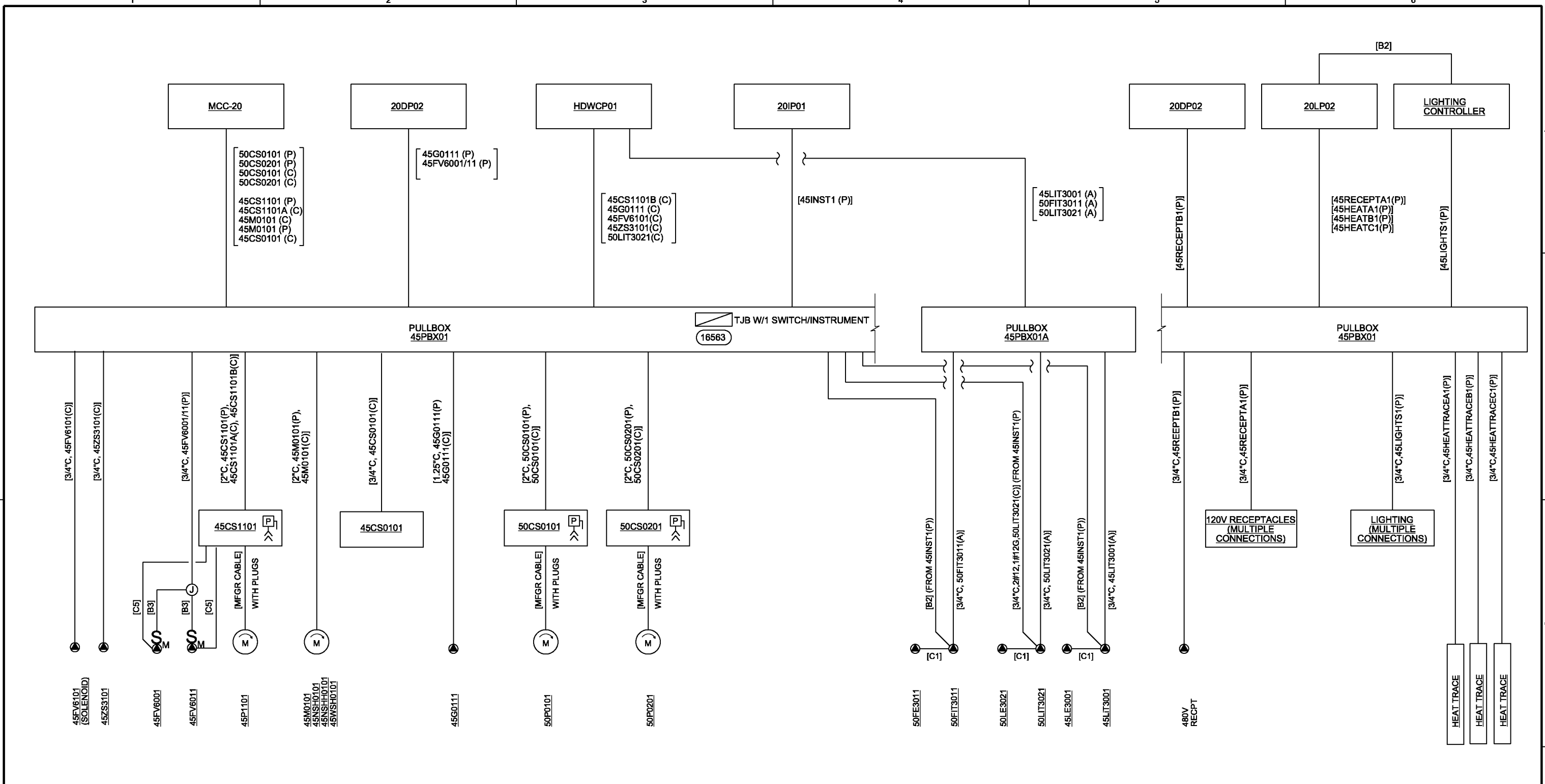
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| VERIFY SCALE |
| BAR IS ONE INCH ON ORIGINAL DRAWING. |
| 0 1" |
| IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

NEW SECONDARY CLARIFIERS
RISER DIAGRAM - CLARIFIER 1

| | |
|-------|-------------|
| SHEET | 376 |
| DWG | 45-E-501 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |



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CLARIFIER 2 RISER DIAGRAM

NOTES:

- REFER TO SITE Routed CONDUIT SCHEDULE FOR CONDUIT SIZE AND ROUTING OF CIRCUITS FROM PULLBOX TO PANELS LOCATED INSIDE THE ELECTRICAL ROOM.

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| | | | | | | | | | |
|------|------------|----------|------|----------|----|------|--|--|--|
| DSGN | BR RODGERS | | | | | | | | |
| DR | RB CAVE | | | | | | | | |
| CHK | GJ DeBOIS | 01/20/10 | | | | | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY | APVD | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

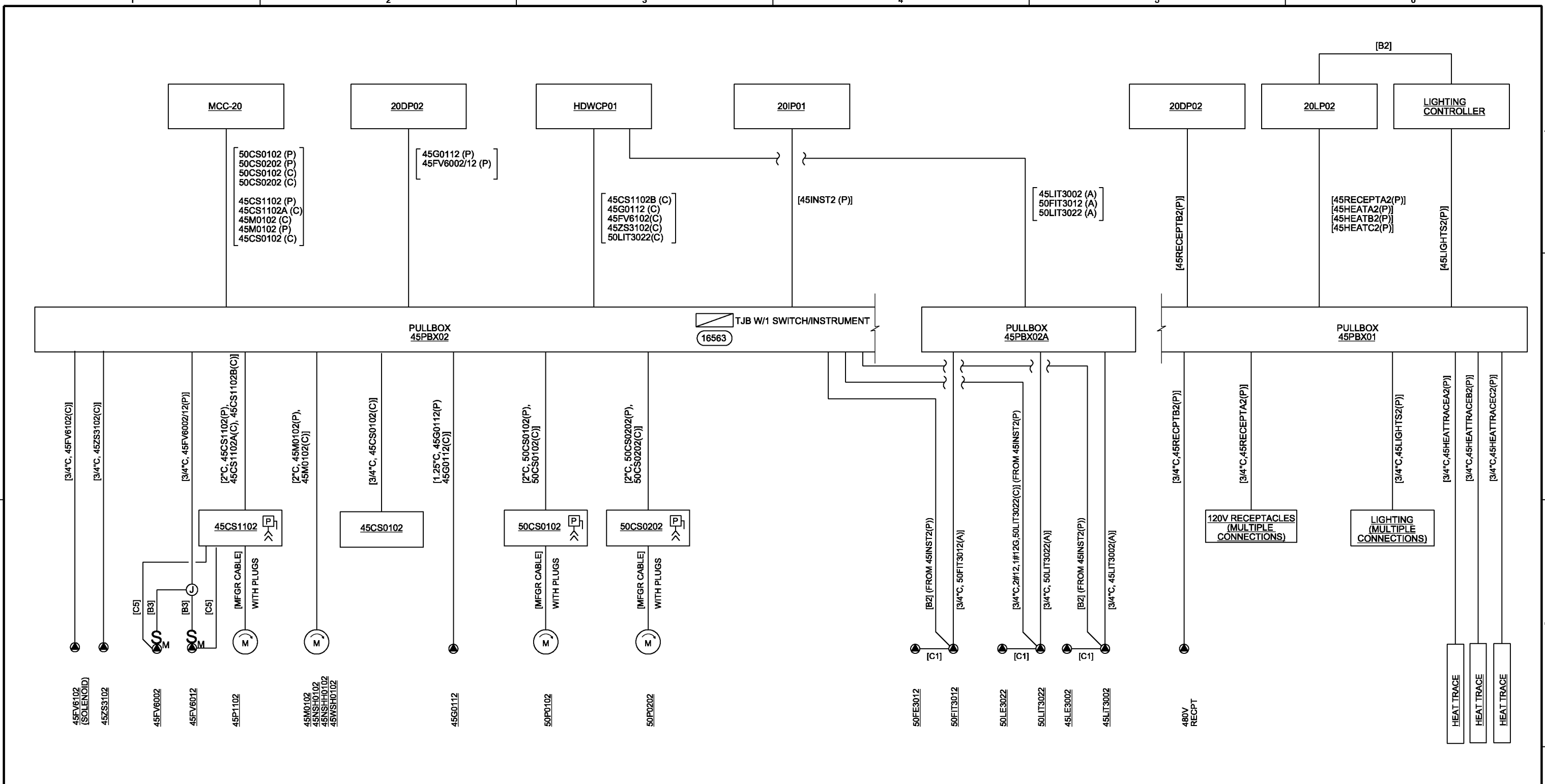
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| VERIFY SCALE | |
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| 0 1" | |
| IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | |



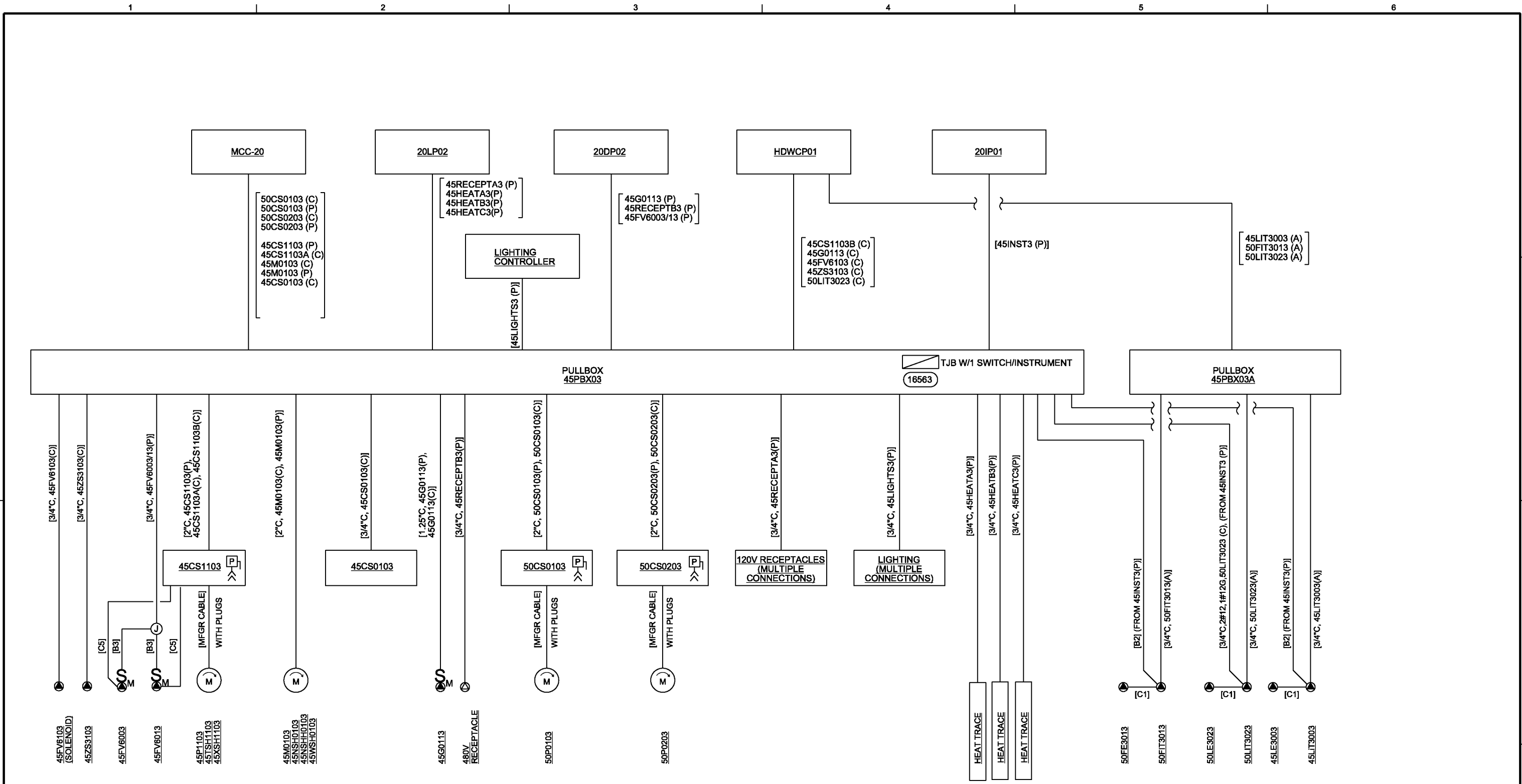
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

NEW SECONDARY CLARIFIERS
RISER DIAGRAM - CLARIFIER 2

| | |
|-------|-------------|
| SHEET | 377 |
| DWG | 45-E-502 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |



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CLARIFIER 3 RISER DIAGRAM

NOTES:

- REFER TO SITE ROUTED CONDUIT SCHEDULE FOR CONDUIT SIZE AND ROUTING OF CIRCUITS FROM PULLBOX TO PANELS LOCATED INSIDE THE ELECTRICAL ROOM.

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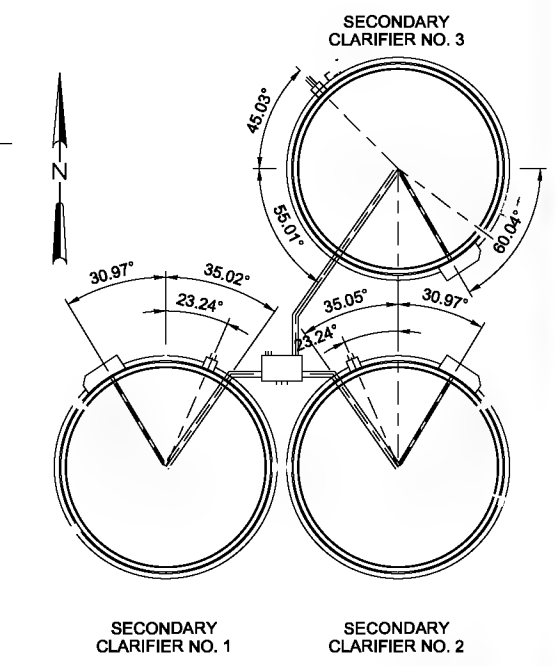
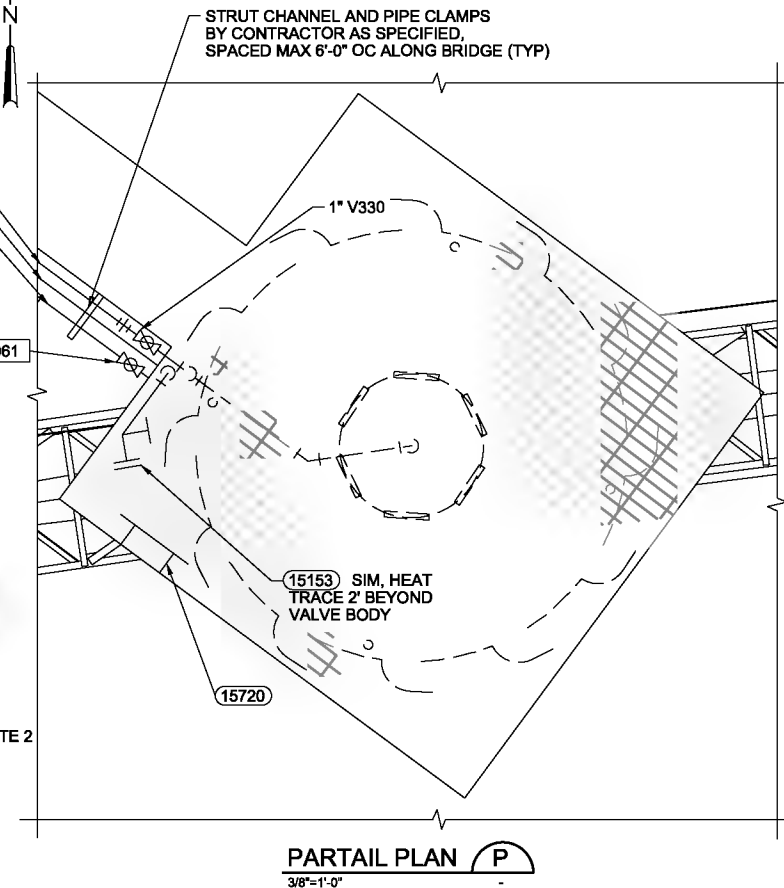
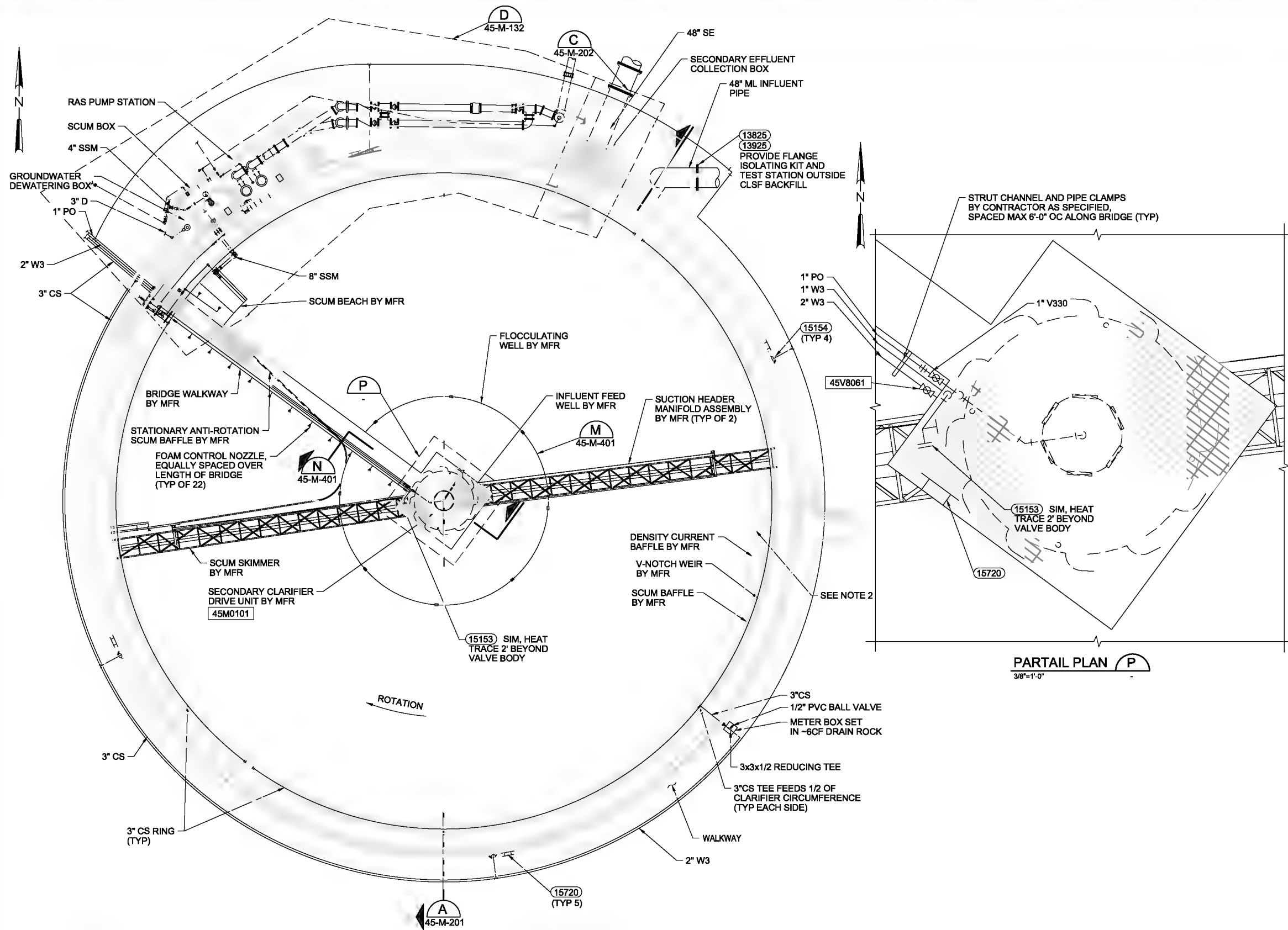
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|------|------------|--|-----|------|----------|----|------|---|
| DSGN | BR RODGERS | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | NO. | DATE | REVISION | BY | APVD | VERIFY SCALE |
| DR | RB CAVE | | | | | | | BAR IS ONE INCH ON ORIGINAL DRAWING. |
| CHK | GJ DeBOIS | | | | | | | 0 1" |
| APVD | RS SHANLEY | | | | | | | IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

NEW SECONDARY CLARIFIERS
RISER DIAGRAM - CLARIFIER 3

| | |
|-------|-------------|
| SHEET | 378 |
| DWG | 45-E-503 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |



- NOTES:
1. SECONDARY CLARIFIER NO. 2 IDENTICAL EXCEPT FOR ORIENTATION OF PIPING. SEE KEY PLAN FOR ORIENTATION OF PIPING.
 2. DISCONTINUE DENSITY CURRENT BAFFLE AT SCUM PIPING PENETRATION INTO SCUM BOX.
 3. CLARIFIER EQUIPMENT NOTED BY MFR INCLUDED IN OWNER PRE-PURCHASE PACKAGE, CONTRACTOR SHALL PROVIDE 316 SST ANCHOR BOLTS UNLESS OTHERWISE INDICATED.
 4. OUTDOOR EXPOSED LIQUID PIPING 3" AND SMALLER AND WHERE SHOWN ON THE DRAWINGS SHALL BE HEAT TRACED AND INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS, AND IN SECTION 16055, PIPE HEAT TRACING.
 5. OUTDOOR EXPOSED LIQUID PIPING 6" AND SMALLER AND WHERE SHOWN ON THE DRAWINGS SHALL BE INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS.
 6. CLARIFIER BRIDGE AND MECHANISM TO BE SUPPLIED AS PART OF THE OWNER FURNISHED PRODUCTS PROCUREMENT DOCUMENTS (VOLUME 10 OF 10). CLARIFIER TO BE SUPPLIED WITH 1/2 BRIDGE EXTENDING FROM SCUM BEACH TO CENTER COLUMN, NOT FULL DIAMETER BRIDGE AS SHOWN ON THE DRAWINGS. ALSO, CLARIFIER WILL NOT INCLUDE FLOCCULATION WELL SUPPORTS, AS CURRENTLY SHOWN AS A TRUSS EXTENDING THE FULL DIAMETER OF THE CLARIFIER PERPENDICULAR TO THE ACCESS BRIDGE AND ATTACHING TO THE CENTER COLUMN AND PERIMETER WALL. FLOCCULATION WELL WILL BE SUPPORTED FROM 1/2 BRIDGE AND CENTER COLUMN.

PLAN-SECONDARY CLARIFIER NO. 1
3/32"=1'-0"

PARTIAL PLAN P
3/8"=1'-0"

KEY PLAN
NO SCALE

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY RICHARD S. SHANLEY, STATE OF OREGON, P.E. NO. (PE 18,933).

| | | | | | |
|------|--------------|----------|------|----------|------|
| DSGN | M KATALINICH | | | | |
| DR | M GADEL | | | | |
| CHK | TR TEKIPPE | 01/23/10 | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY |
| | | | | | ARVD |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

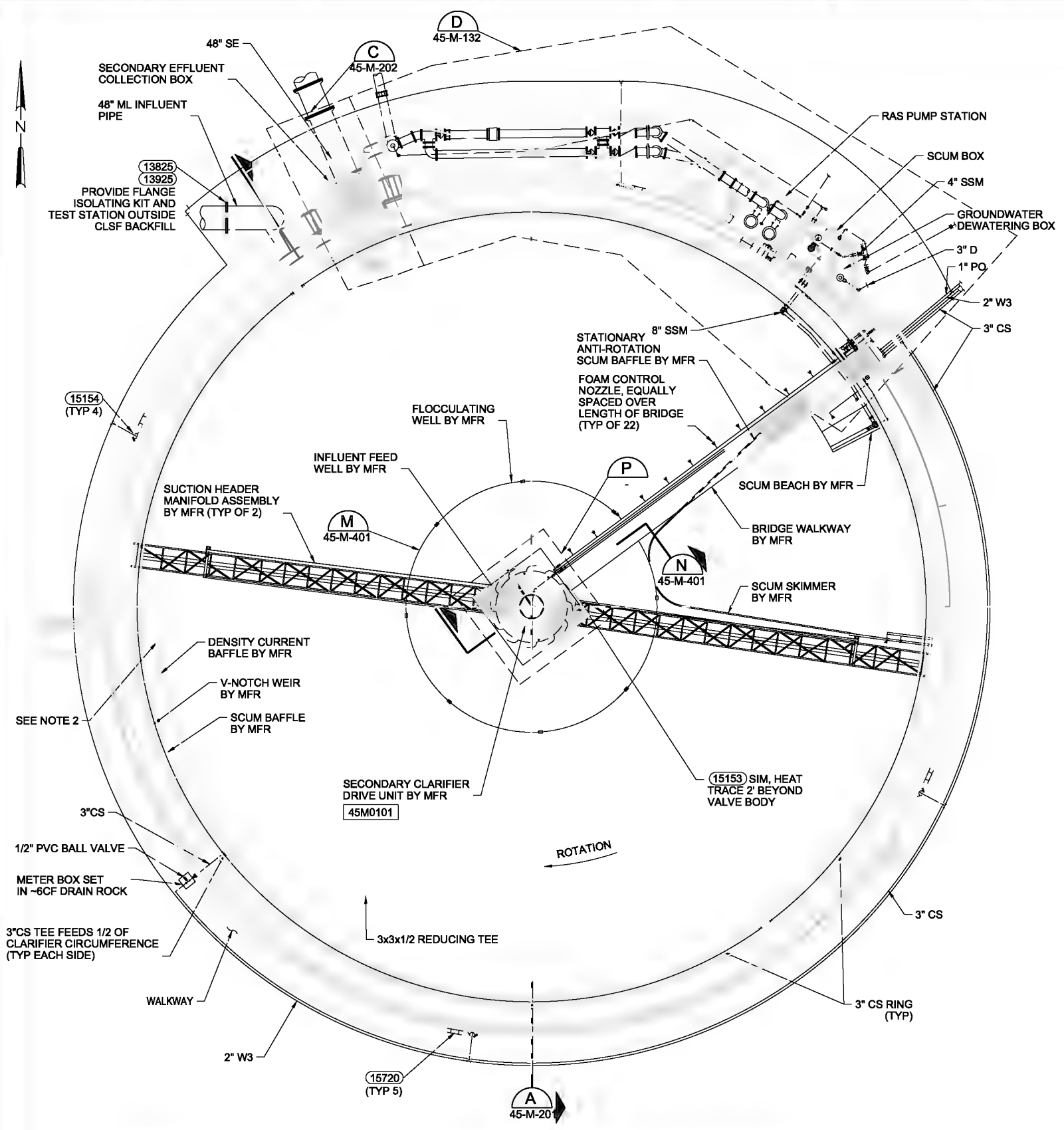


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

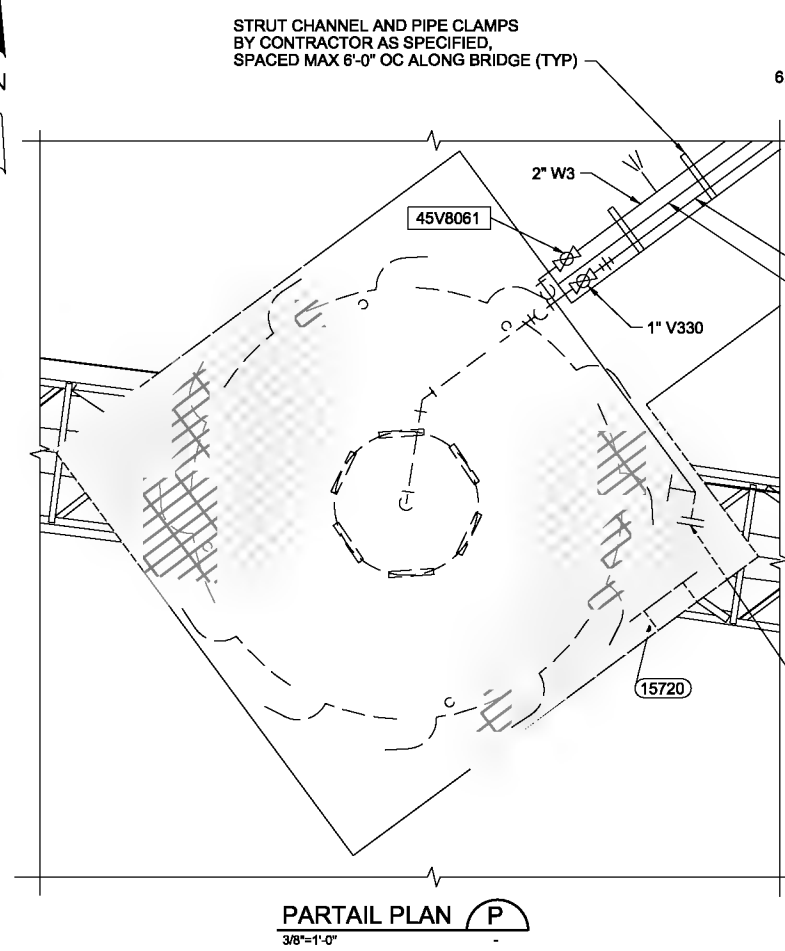
NEW SECONDARY CLARIFIERS
CLARIFIER NO. 1 - PLAN

| | |
|-------|-------------|
| SHEET | 379 |
| DWG | 45-M-131 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

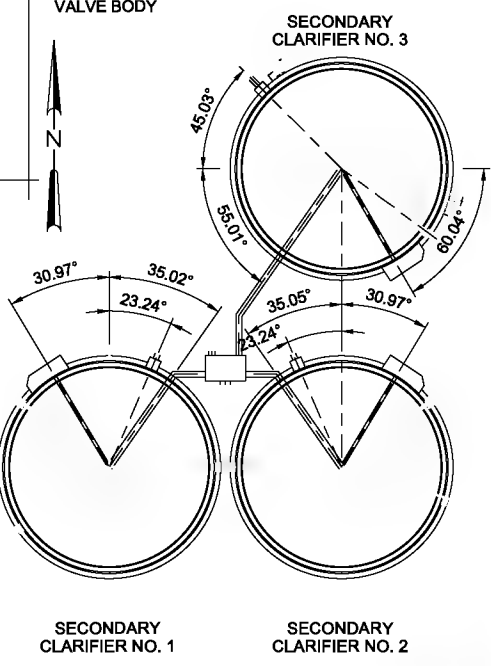
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PLAN-SECONDARY CLARIFIER NO. 2
3/32"=1'-0"



PARTAIL PLAN P
3/8"=1'-0"



KEY PLAN
NO SCALE

- NOTES:
1. SECONDARY CLARIFIER NO. 2 IDENTICAL EXCEPT FOR ORIENTATION OF PIPING. SEE KEY PLAN FOR ORIENTATION OF PIPING.
 2. DISCONTINUE DENSITY CURRENT BAFFLE AT SCUM PIPING PENETRATION INTO SCUM BOX.
 3. CLARIFIER EQUIPMENT NOTED BY MFR INCLUDED IN OWNER PRE-PURCHASE PACKAGE, CONTRACTOR SHALL PROVIDE 316 SST ANCHOR BOLTS UNLESS OTHERWISE INDICATED.
 4. OUTDOOR EXPOSED LIQUID PIPING 3" AND SMALLER AND WHERE SHOWN ON THE DRAWINGS SHALL BE HEAT TRACED AND INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS, AND IN SECTION 16055, PIPE HEAT TRACING.
 5. OUTDOOR EXPOSED LIQUID PIPING 6" AND SMALLER AND WHERE SHOWN ON THE DRAWINGS SHALL BE INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS.
 6. CLARIFIER BRIDGE AND MECHANISM TO BE SUPPLIED AS PART OF THE OWNER FURNISHED PRODUCTS PROCUREMENT DOCUMENTS (VOLUME 10 OF 10). CLARIFIER TO BE SUPPLIED WITH 1/2 BRIDGE EXTENDING FROM SCUM BEACH TO CENTER COLUMN, NOT FULL DIAMETER BRIDGE AS SHOWN ON THE DRAWINGS. ALSO, CLARIFIER WILL NOT INCLUDE FLOCCULATION WELL SUPPORTS, AS CURRENTLY SHOWN AS A TRUSS EXTENDING THE FULL DIAMETER OF THE CLARIFIER PERPENDICULAR TO THE ACCESS BRIDGE AND ATTACHING TO THE CENTER COLUMN AND PERIMETER WALL. FLOCCULATION WELL WILL BE SUPPORTED FROM 1/2 BRIDGE AND CENTER COLUMN.

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| | | | | | | | | | |
|------|---------------|------|----------|-----|--|----------|--|----|------|
| DSGN | M. KATALINICH | DATE | 01/23/10 | NO. | | REVISION | | BY | ARVD |
| DR | M. GADEL | | | | | | | | |
| CHK | TR. TEKIPPE | | | | | | | | |
| APVD | RS. SHANLEY | | | | | | | | |

VERIFY SCALE
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0 1"
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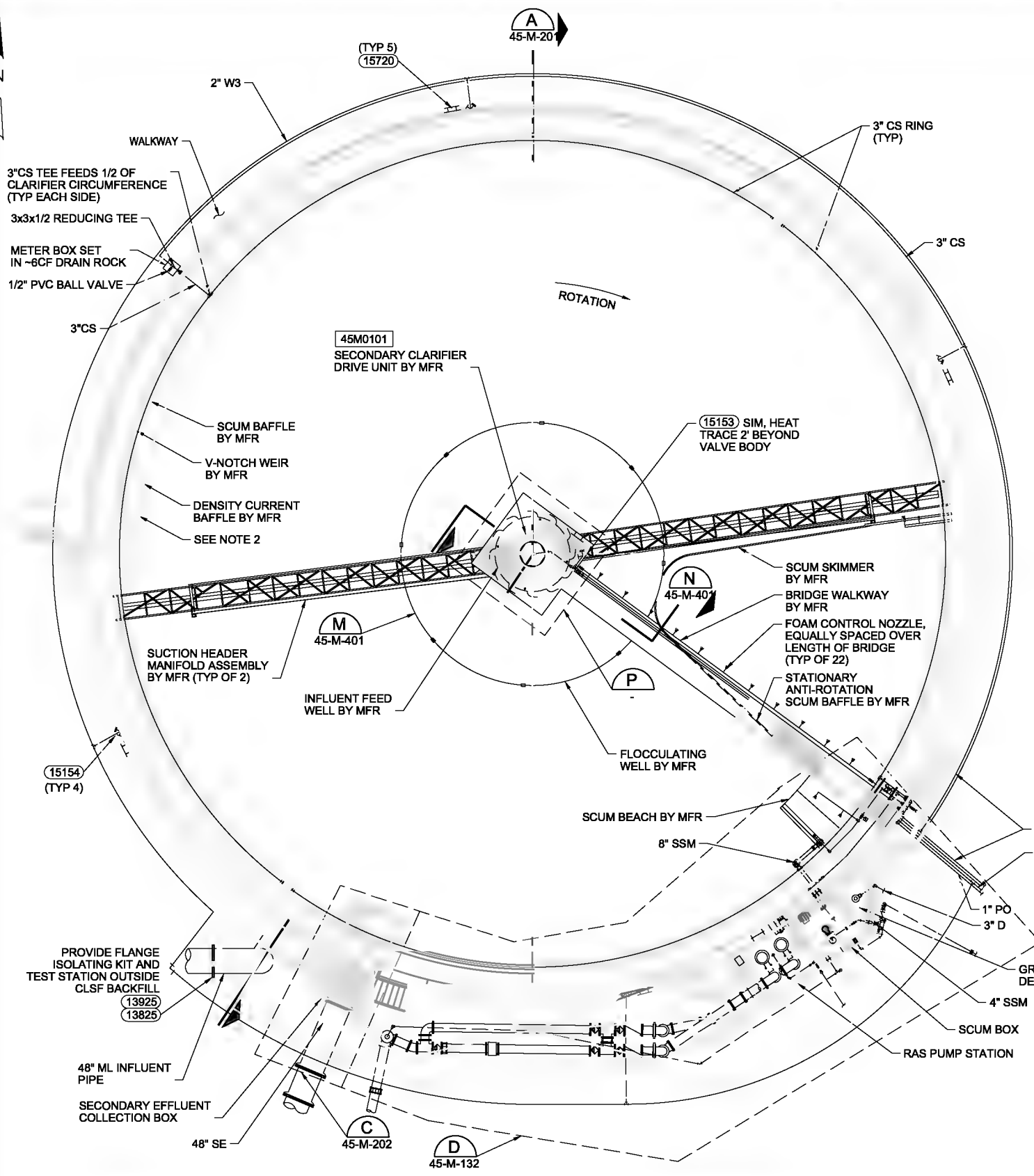
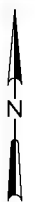


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

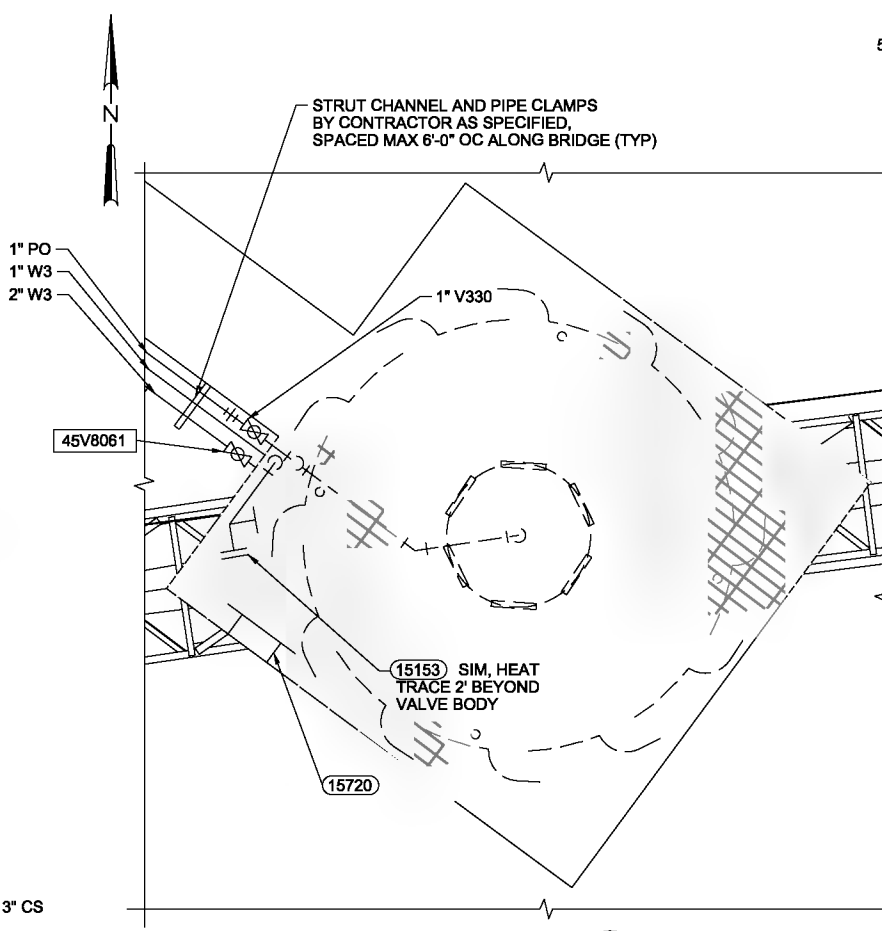
NEW SECONDARY CLARIFIERS
CLARIFIER NO. 2 - PLAN

| | |
|-------|-------------|
| SHEET | 380 |
| DWG | 45-M-131A |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

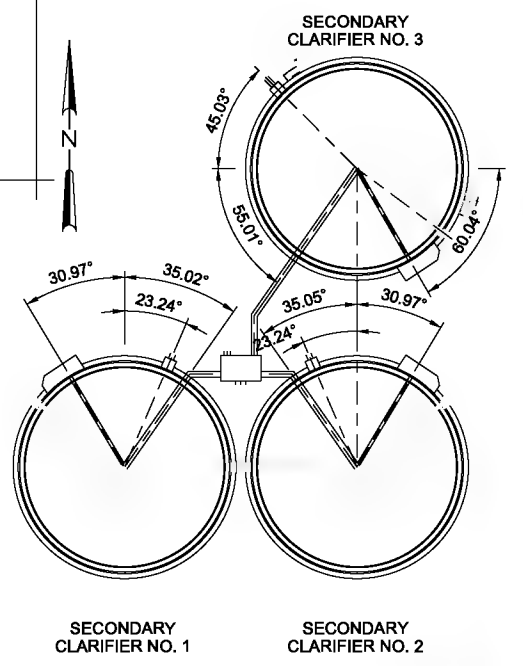
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PLAN-SECONDARY CLARIFIER NO. 3
3/32"=1'-0"



PARTIAL PLAN P
3/8"=1'-0"



KEY PLAN
NO SCALE

- NOTES:**
1. SECONDARY CLARIFIER NO. 2 IDENTICAL EXCEPT FOR ORIENTATION OF PIPING. SEE KEY PLAN FOR ORIENTATION OF PIPING.
 2. DISCONTINUE DENSITY CURRENT BAFFLE AT SCUM PIPING PENETRATION INTO SCUM BOX.
 3. CLARIFIER EQUIPMENT NOTED BY MFR INCLUDED IN OWNER PRE-PURCHASE PACKAGE, CONTRACTOR SHALL PROVIDE 316 SST ANCHOR BOLTS UNLESS OTHERWISE INDICATED.
 4. OUTDOOR EXPOSED LIQUID PIPING 3" AND SMALLER AND WHERE SHOWN ON THE DRAWINGS SHALL BE HEAT TRACED AND INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS, AND IN SECTION 16055, PIPE HEAT TRACING.
 5. OUTDOOR EXPOSED LIQUID PIPING 6" AND SMALLER AND WHERE SHOWN ON THE DRAWINGS SHALL BE INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS.
 6. CLARIFIER BRIDGE AND MECHANISM TO BE SUPPLIED AS PART OF THE OWNER FURNISHED PRODUCTS PROCUREMENT DOCUMENTS (VOLUME 10 OF 10). CLARIFIER TO BE SUPPLIED WITH 1/2 BRIDGE EXTENDING FROM SCUM BEACH TO CENTER COLUMN, NOT FULL DIAMETER BRIDGE AS SHOWN ON THE DRAWINGS. ALSO, CLARIFIER WILL NOT INCLUDE FLOCCULATION WELL SUPPORTS, AS CURRENTLY SHOWN AS A TRUSS EXTENDING THE FULL DIAMETER OF THE CLARIFIER PERPENDICULAR TO THE ACCESS BRIDGE AND ATTACHING TO THE CENTER COLUMN AND PERIMETER WALL. FLOCCULATION WELL WILL BE SUPPORTED FROM 1/2 BRIDGE AND CENTER COLUMN.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY RICHARD S. SHANLEY, STATE OF OREGON, P.E. NO. (PE 18,933).

| | | | | | |
|------|---------------|----------|------|----------|----|
| DSGN | M. KATALINICH | | | | |
| DR | M. GADEL | | | | |
| CHK | TR. TEKIPPE | 01/23/10 | | | |
| APVD | RS. SHANLEY | NO. | DATE | REVISION | BY |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 = 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



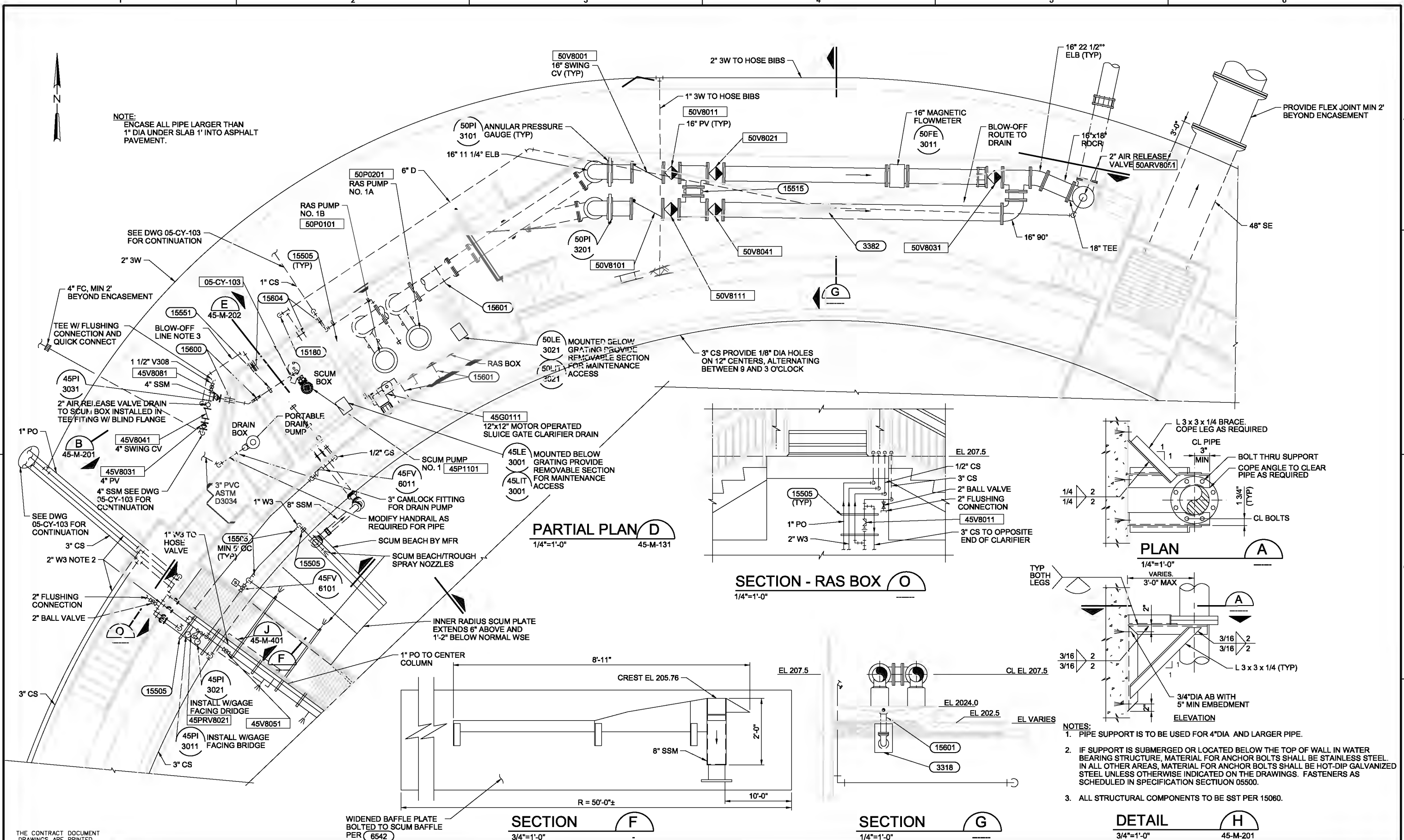
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

NEW SECONDARY CLARIFIERS
CLARIFIER NO. 3 - PLAN

| | |
|-------|-------------|
| SHEET | 381 |
| DWG | 45-M-131B |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOTE:
ENCASE ALL PIPE LARGER THAN
1" DIA UNDER SLAB 1" INTO ASPHALT
PAVEMENT.



PARTIAL PLAN D
1/4"=1'-0" 45-M-131

SECTION - RAS BOX O
1/4"=1'-0"

SECTION F
3/4"=1'-0"

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

DETAIL H
3/4"=1'-0" 45-M-201

- NOTES:
- PIPE SUPPORT IS TO BE USED FOR 4" DIA AND LARGER PIPE.
 - IF SUPPORT IS SUBMERGED OR LOCATED BELOW THE TOP OF WALL IN WATER BEARING STRUCTURE, MATERIAL FOR ANCHOR BOLTS SHALL BE STAINLESS STEEL. IN ALL OTHER AREAS, MATERIAL FOR ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL UNLESS OTHERWISE INDICATED ON THE DRAWINGS. FASTENERS AS SCHEDULED IN SPECIFICATION SECTION 05500.
 - ALL STRUCTURAL COMPONENTS TO BE SST PER 15060.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY RICHARD S. SHANLEY, STATE OF OREGON, P.E. NO. (PE 18,933).

| | | | | | | | |
|------|--------------|----------|------|----------|----|------|--|
| DSGN | M KATALINICH | | | | | | |
| DR | M J GABEL | | | | | | |
| CHK | TR TEKIPPE | 01/20/10 | | | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY | APVD | |

VERIFY SCALE
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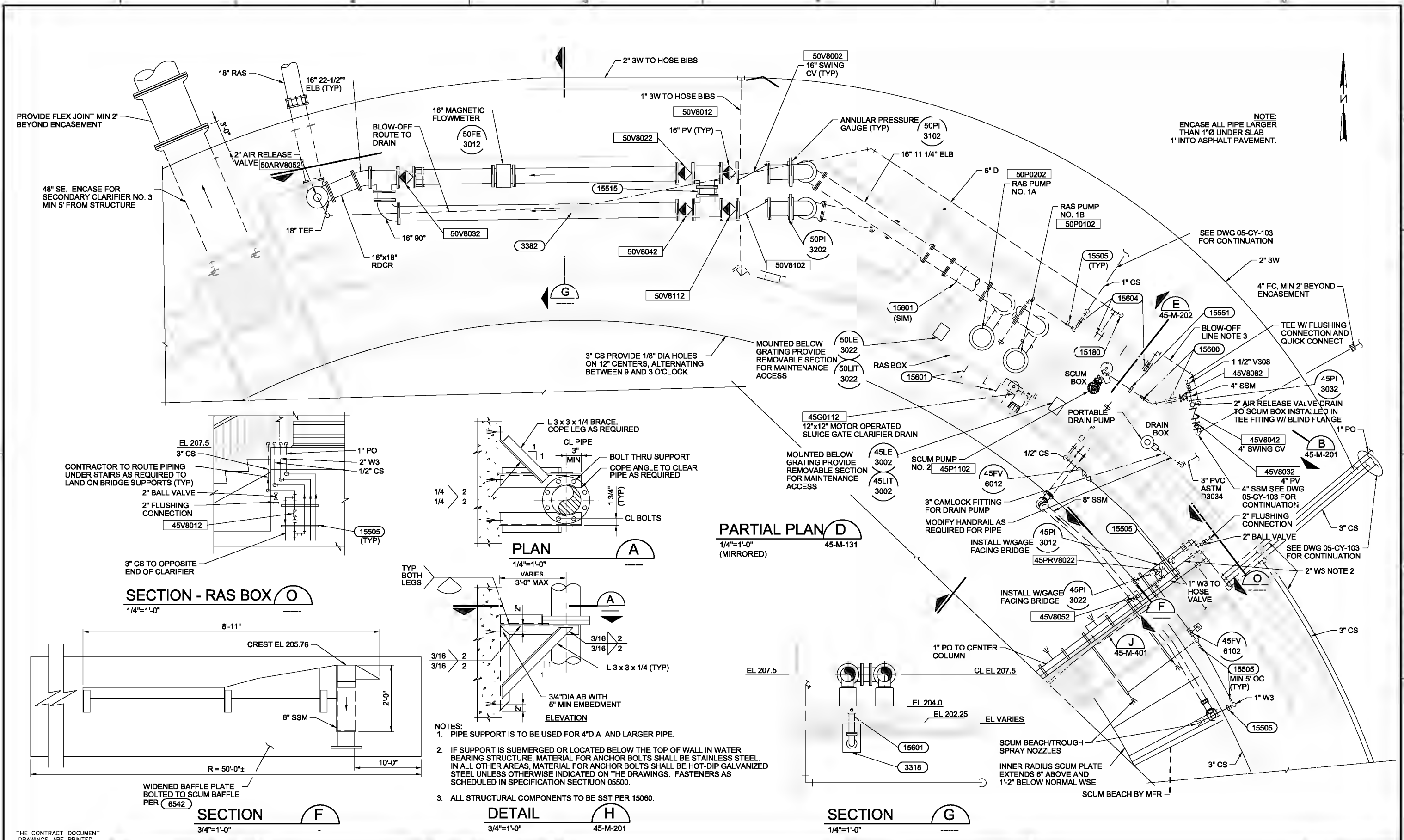


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

NEW SECONDARY CLARIFIERS
SECONDARY CLARIFIER NO. 1
RAS AND SCUM PUMP STATIONS

| | |
|-------|-------------|
| SHEET | 382 |
| DWG | 45-M-132 |
| DATE | MAY 19 2006 |
| PROJ | 326916 |

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NOTE:
ENCASE ALL PIPE LARGER
THAN 1"Ø UNDER SLAB
1" INTO ASPHALT PAVEMENT.

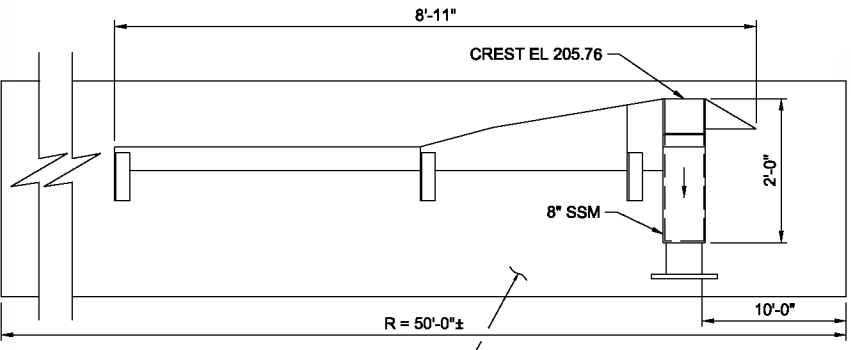
PROVIDE FLEX JOINT MIN 2'
BEYOND ENCASEMENT

48" SE. ENCASE FOR
SECONDARY CLARIFIER NO. 3
MIN 5' FROM STRUCTURE

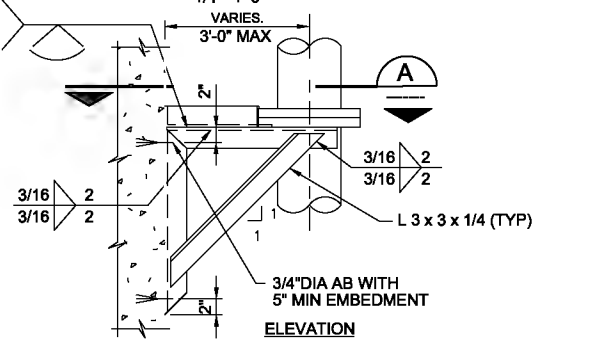
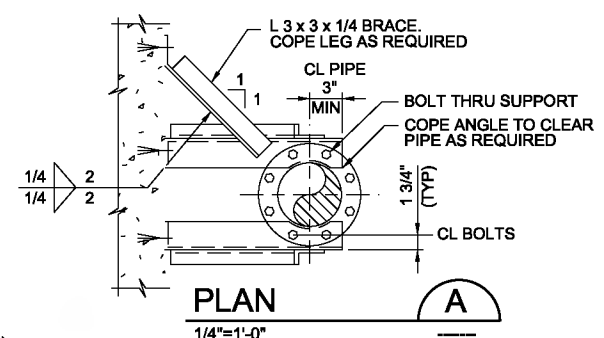
3" CS PROVIDE 1/8" DIA HOLES
ON 12" CENTERS, ALTERNATING
BETWEEN 9 AND 3 O'CLOCK

PARTIAL PLAN D
1/4"=1'-0"
(MIRRORED)
45-M-131

SECTION - RAS BOX O
1/4"=1'-0"



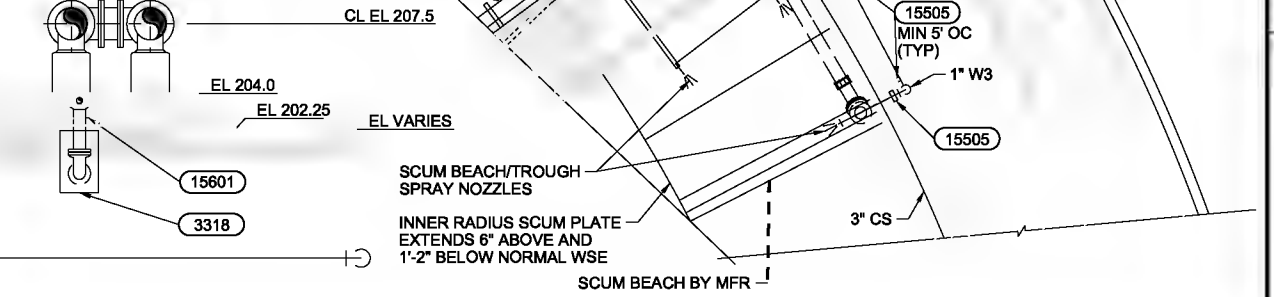
SECTION F
3/4"=1'-0"



DETAIL H
3/4"=1'-0"
45-M-201

NOTES:
1. PIPE SUPPORT IS TO BE USED FOR 4" DIA AND LARGER PIPE.
2. IF SUPPORT IS SUBMERGED OR LOCATED BELOW THE TOP OF WALL IN WATER BEARING STRUCTURE, MATERIAL FOR ANCHOR BOLTS SHALL BE STAINLESS STEEL. IN ALL OTHER AREAS, MATERIAL FOR ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL UNLESS OTHERWISE INDICATED ON THE DRAWINGS. FASTENERS AS SCHEDULED IN SPECIFICATION SECTION 05500.
3. ALL STRUCTURAL COMPONENTS TO BE SSS PER 15600.

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



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| | | | | | | |
|------|--------------|-----|----------|----------|----|------|
| DSGN | M KATALINICH | NO. | DATE | REVISION | BY | ARVD |
| DR | M GADEL | | | | | |
| CHK | TR TEKIPPE | | 01/23/10 | | | |
| APVD | RS SHANLEY | | | | | |

VERIFY SCALE
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



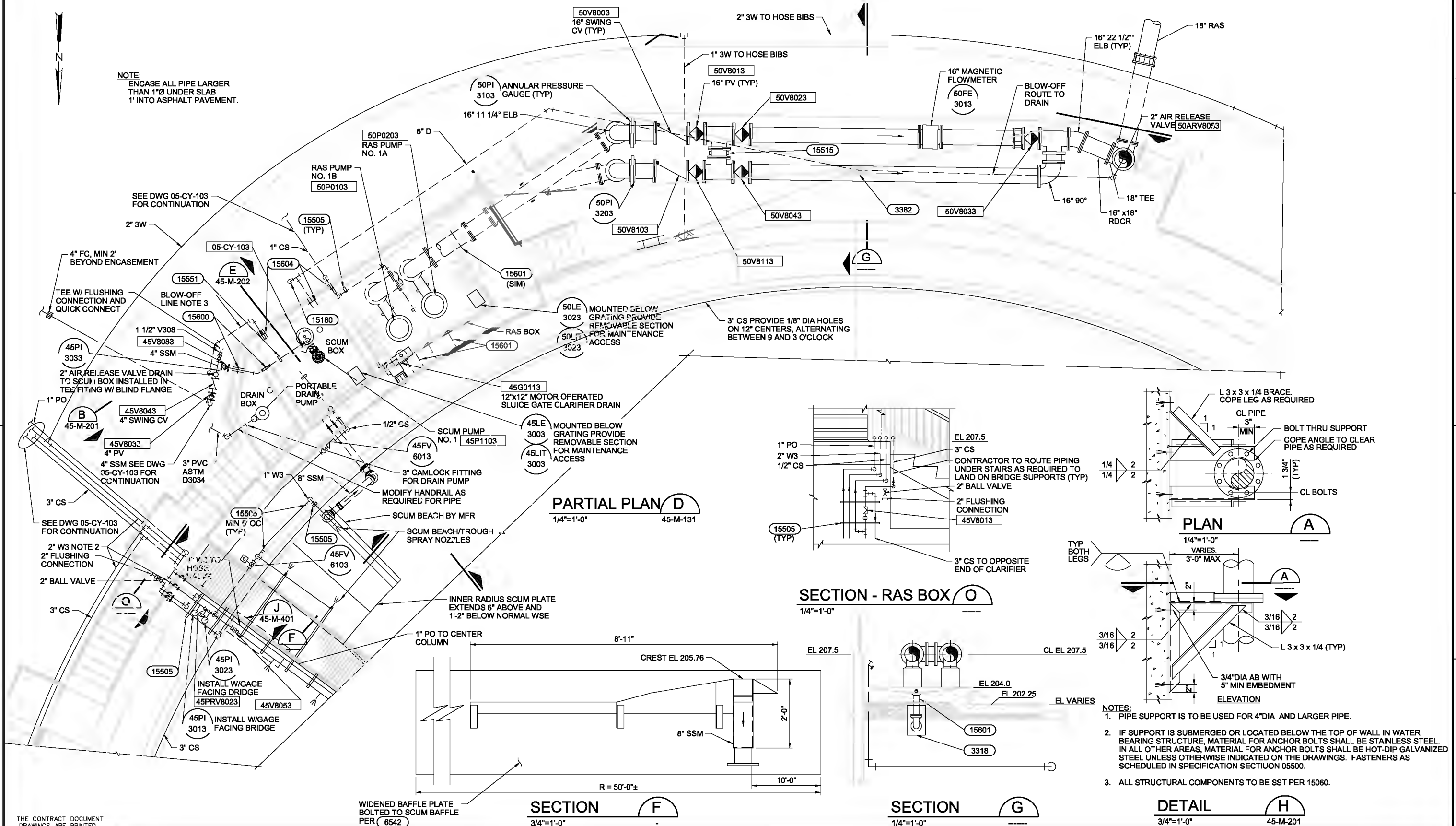
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

NEW SECONDARY CLARIFIERS
SECONDARY CLARIFIER NO. 2
RAS AND SCUM PUMP STATIONS

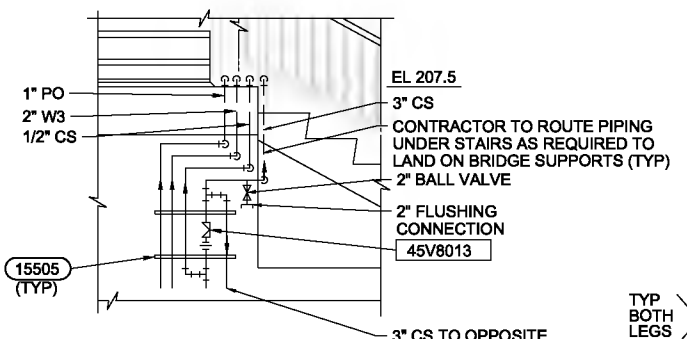
| | |
|-------|-------------|
| SHEET | 383 |
| DWG | 45-M-132A |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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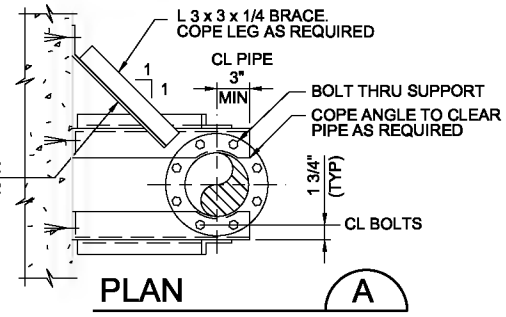
NOTE:
ENCASE ALL PIPE LARGER
THAN 1"Ø UNDER SLAB
1" INTO ASPHALT PAVEMENT.



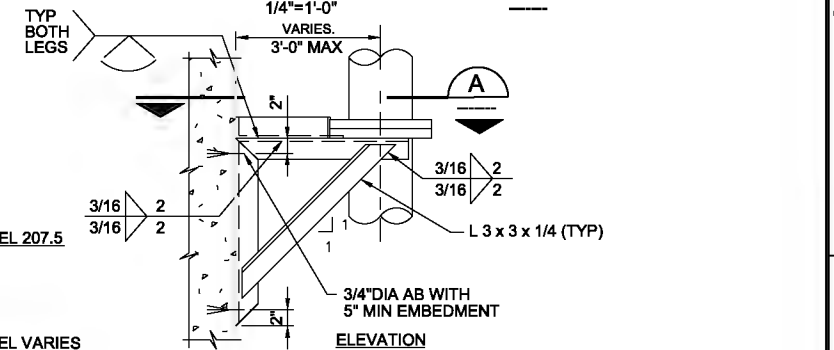
PARTIAL PLAN D
1/4"=1'-0" 45-M-131



SECTION - RAS BOX O
1/4"=1'-0"

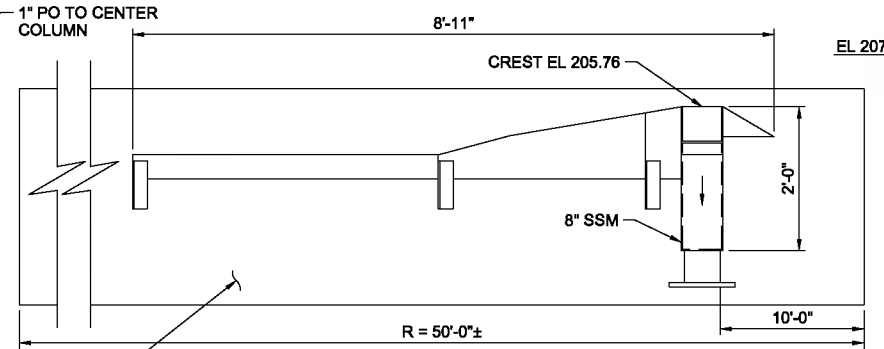


PLAN A
1/4"=1'-0"

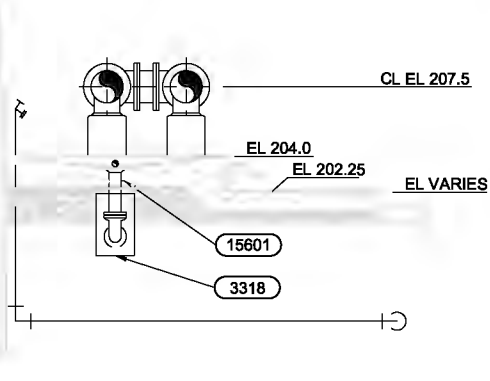


DETAIL H
3/4"=1'-0" 45-M-201

- NOTES:
- PIPE SUPPORT IS TO BE USED FOR 4" DIA AND LARGER PIPE.
 - IF SUPPORT IS SUBMERGED OR LOCATED BELOW THE TOP OF WALL IN WATER BEARING STRUCTURE, MATERIAL FOR ANCHOR BOLTS SHALL BE STAINLESS STEEL. IN ALL OTHER AREAS, MATERIAL FOR ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL UNLESS OTHERWISE INDICATED ON THE DRAWINGS. FASTENERS AS SCHEDULED IN SPECIFICATION SECTION 05500.
 - ALL STRUCTURAL COMPONENTS TO BE SST PER 15060.



SECTION F
3/4"=1'-0"



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

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY RICHARD S. SHANLEY, STATE OF OREGON, P.E. NO. (PE 18,933).

| | | | | | | | |
|------|--------------|----------|------|----------|----|------|--|
| DSGN | M KATALINICH | | | | | | |
| DR | M J GABEL | | | | | | |
| CHK | TR TEKIPPE | 01/20/10 | | | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY | APVD | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

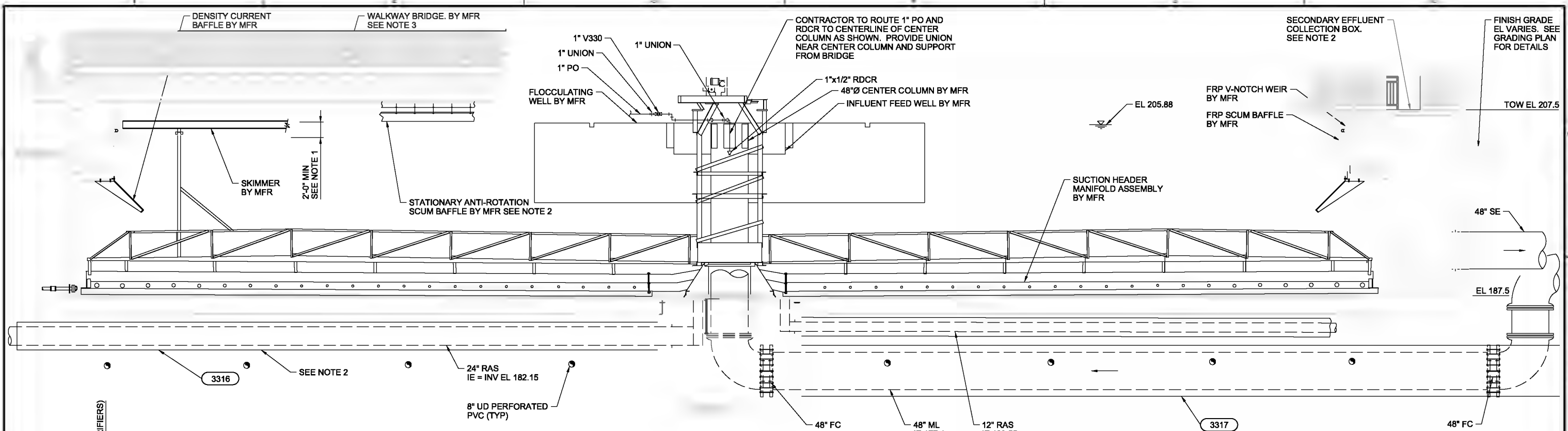


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

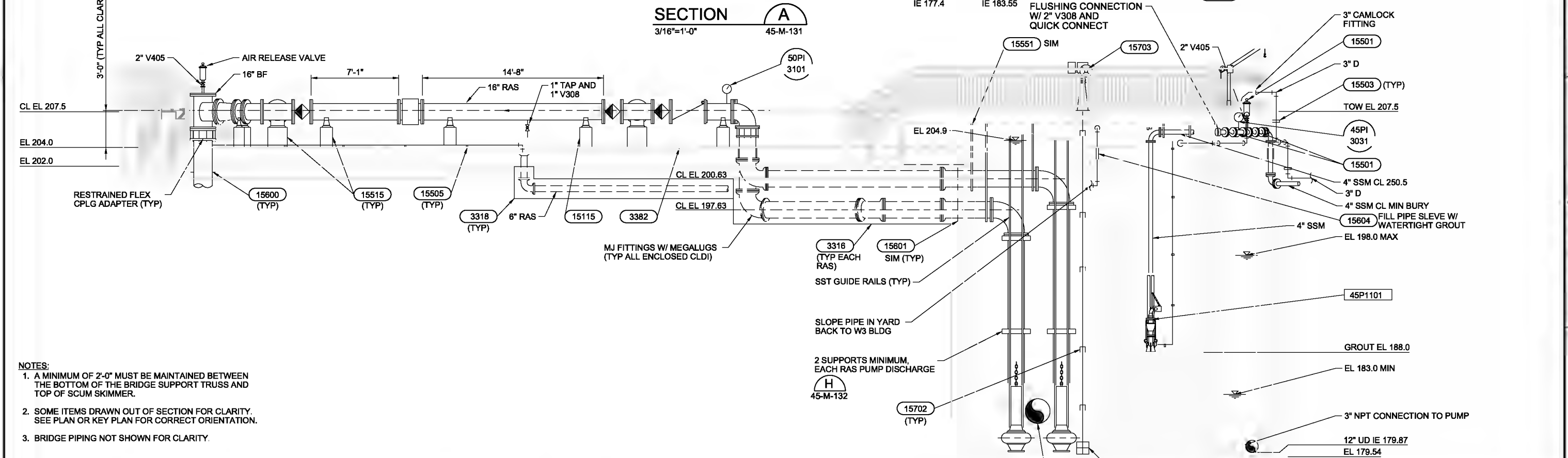
NEW SECONDARY CLARIFIERS
SECONDARY CLARIFIER NO. 3
RAS AND SCUM PUMP STATIONS

| | |
|-------|-------------|
| SHEET | 384 |
| DWG | 45-M-132B |
| DATE | MAY 19 2006 |
| PROJ | 326916 |

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SECTION A
3/16"=1'-0"
45-M-131



SECTION B
1/4"=1'-0"
45-M-132

- NOTES:**
1. A MINIMUM OF 2'-0" MUST BE MAINTAINED BETWEEN THE BOTTOM OF THE BRIDGE SUPPORT TRUSS AND TOP OF SCUM SKIMMER.
 2. SOME ITEMS DRAWN OUT OF SECTION FOR CLARITY. SEE PLAN OR KEY PLAN FOR CORRECT ORIENTATION.
 3. BRIDGE PIPING NOT SHOWN FOR CLARITY.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY S. SHANLEY, STATE OF OREGON, P.E. NO. (PE 18,933).

| | | | |
|--------|-------------|------|----------|
| DESIGN | RS SHANLEY | DATE | 01/23/10 |
| DR | M. GADE | NO. | |
| CHK | CHESTER BY | DATE | |
| APV | APPROVED BY | NO. | |
| REV | | DATE | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

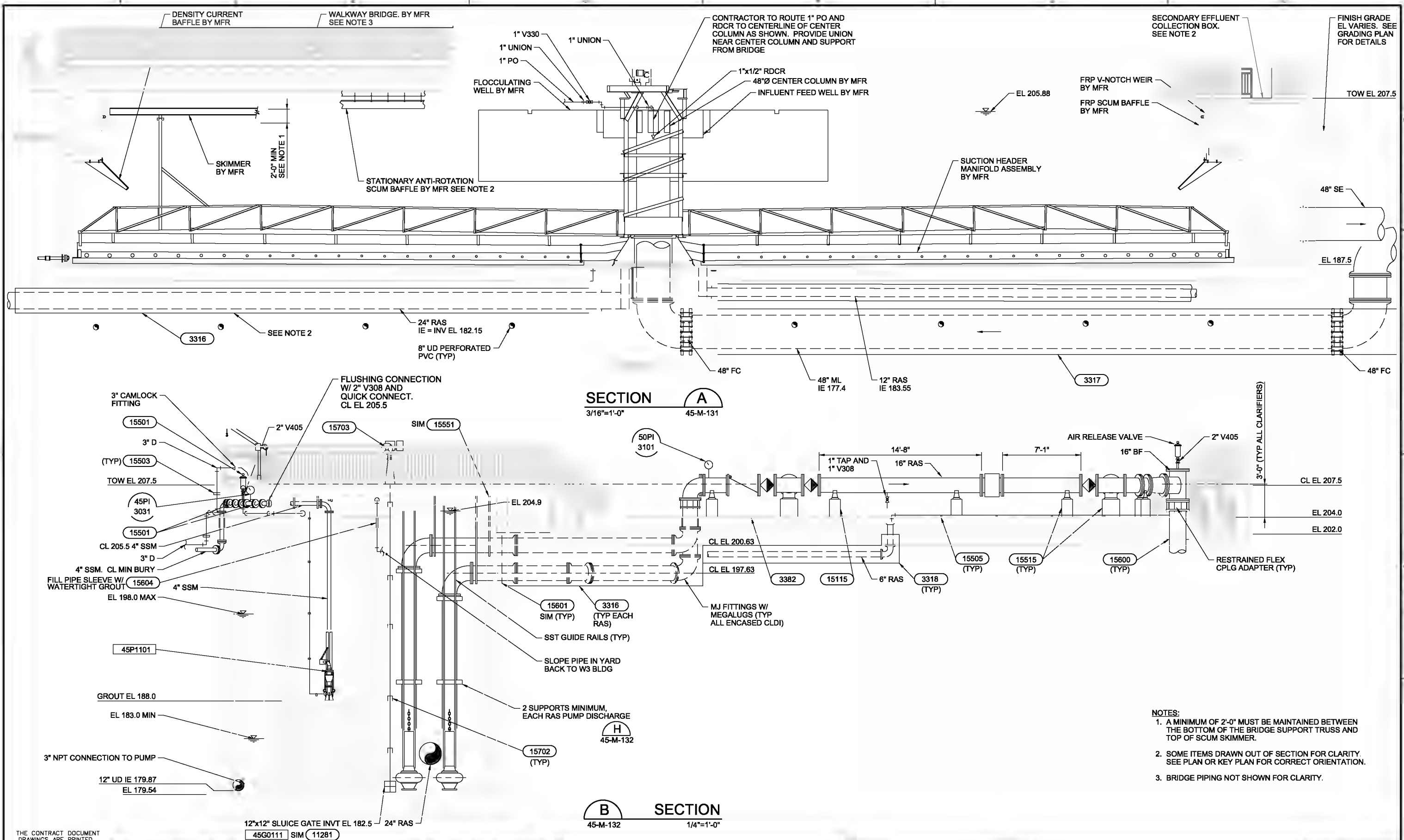


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

NEW SECONDARY CLARIFIERS
MECHANICAL SECTION SECTION

| | |
|-------|-------------|
| SHEET | 385 |
| DWG | 45-M-201 |
| DATE | MAY 19 2006 |
| PROJ | 326916 |

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SECTION A
3/16"=1'-0" 45-M-131

SECTION B
1/4"=1'-0" 45-M-132

- NOTES:**
1. A MINIMUM OF 2'-0" MUST BE MAINTAINED BETWEEN THE BOTTOM OF THE BRIDGE SUPPORT TRUSS AND TOP OF SCUM SKIMMER.
 2. SOME ITEMS DRAWN OUT OF SECTION FOR CLARITY. SEE PLAN OR KEY PLAN FOR CORRECT ORIENTATION.
 3. BRIDGE PIPING NOT SHOWN FOR CLARITY.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY S. SHANLEY, STATE OF OREGON, P.E. NO. 18,933.

| | | | | | | |
|--------|---------------|-----|------|----------|----|----------|
| DESIGN | M. HATALINICH | NO. | DATE | REVISION | BY | APPROVED |
| DR | M. GADE | | | | | |
| CHK | T. THORPE | | | | | |
| APV | S. SHANLEY | | | | | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

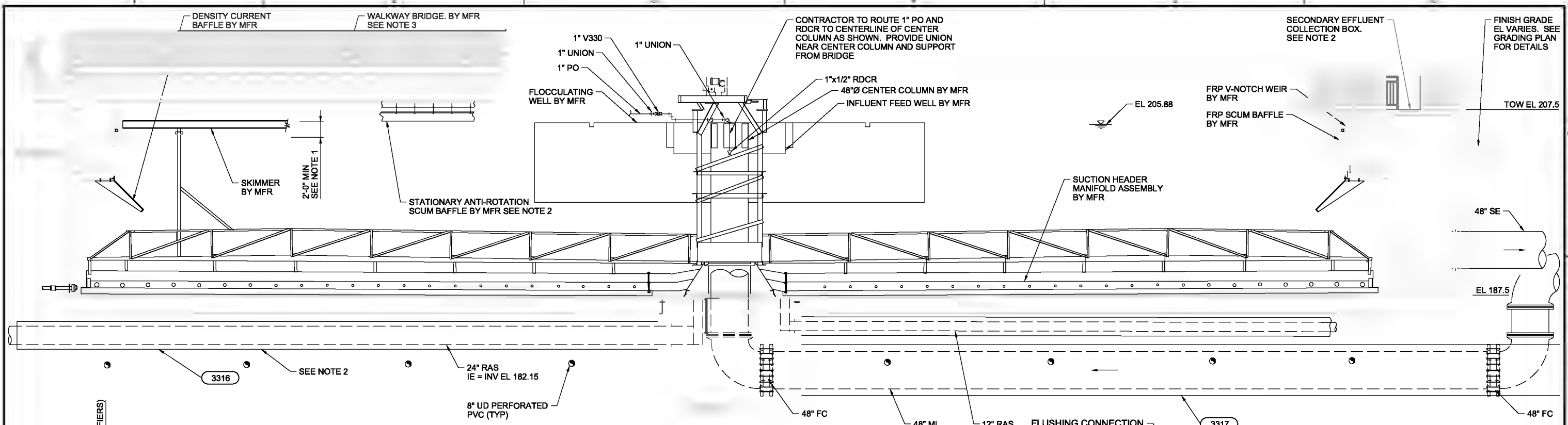


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

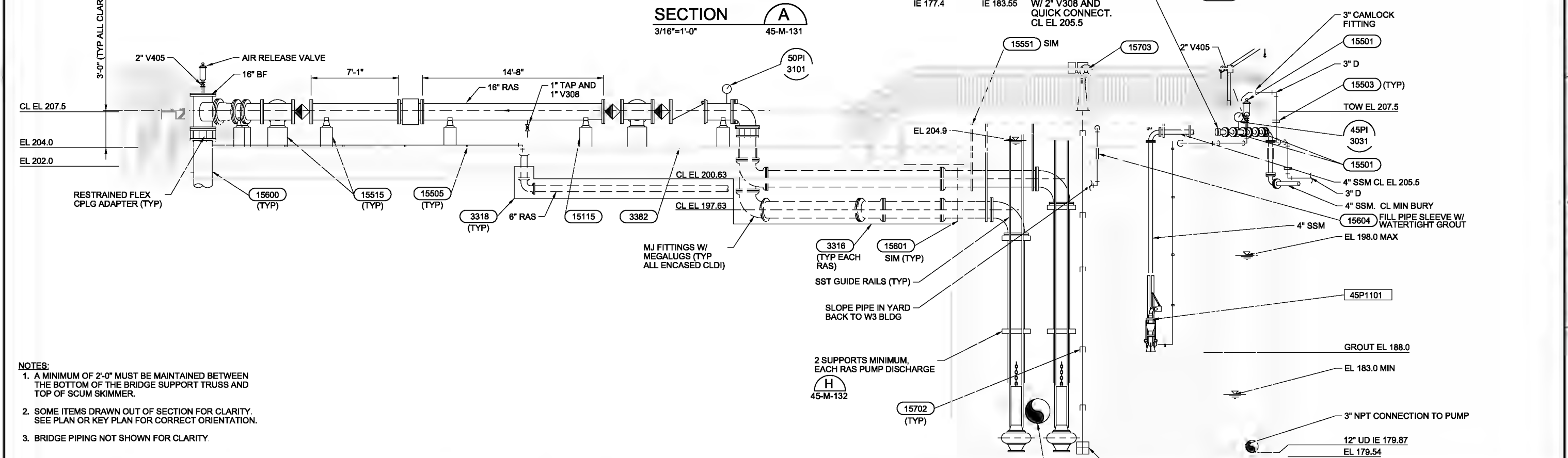
NEW SECONDARY CLARIFIERS
SECONDARY CLARIFIER NO. 2
SECTIONS

| | |
|-------|-------------|
| SHEET | 386 |
| DWG | 45-M-201A |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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SECTION A
3/16"=1'-0"
45-M-131



SECTION B
1/4"=1'-0"
45-M-132

- NOTES:**
1. A MINIMUM OF 2'-0" MUST BE MAINTAINED BETWEEN THE BOTTOM OF THE BRIDGE SUPPORT TRUSS AND TOP OF SCUM SKIMMER.
 2. SOME ITEMS DRAWN OUT OF SECTION FOR CLARITY. SEE PLAN OR KEY PLAN FOR CORRECT ORIENTATION.
 3. BRIDGE PIPING NOT SHOWN FOR CLARITY.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY S. SHANLEY, STATE OF OREGON, P.E. NO. (PE 18,933).

| | | | | | | |
|--------|---------------|-----|------|----------|----|----------|
| DESIGN | M. HATALINICH | NO. | DATE | REVISION | BY | APPROVED |
| DR | M. GADE | | | | | |
| CHK | R. THORPE | | | | | |
| APR | S. SHANLEY | | | | | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

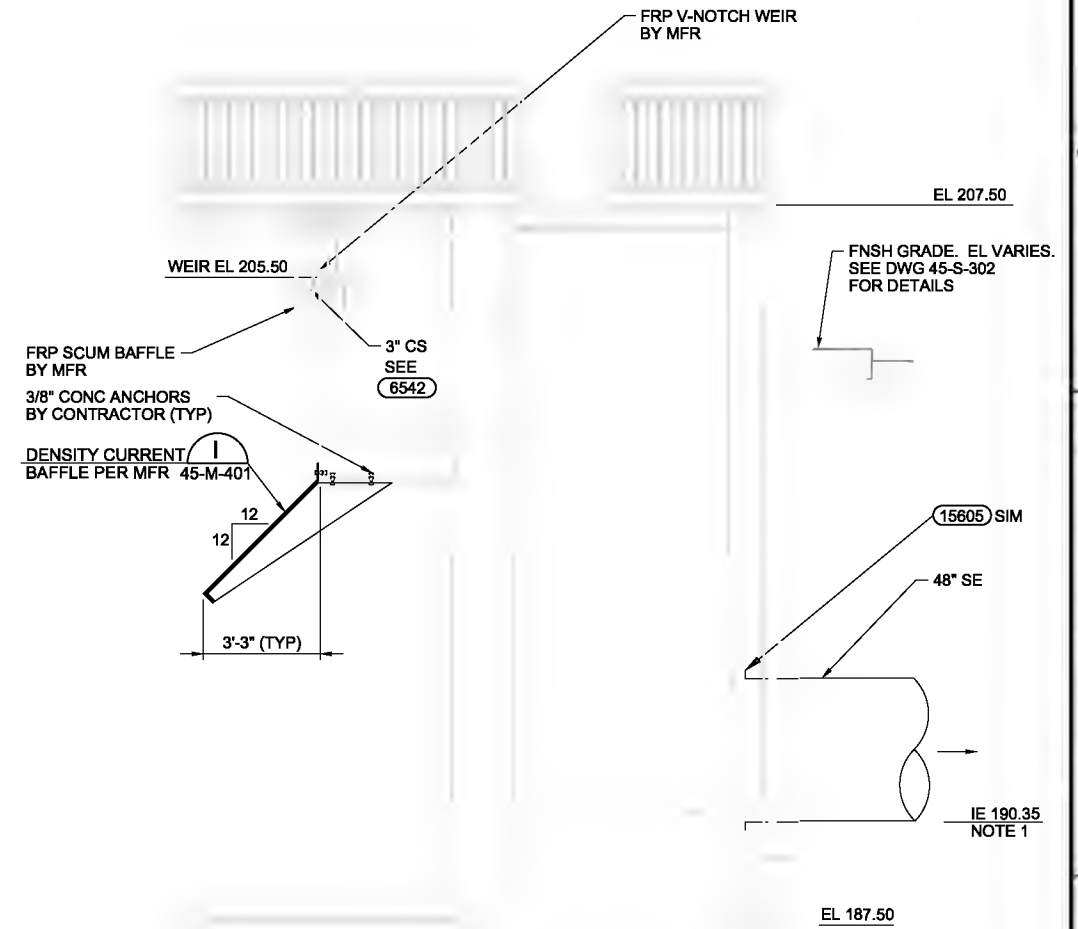
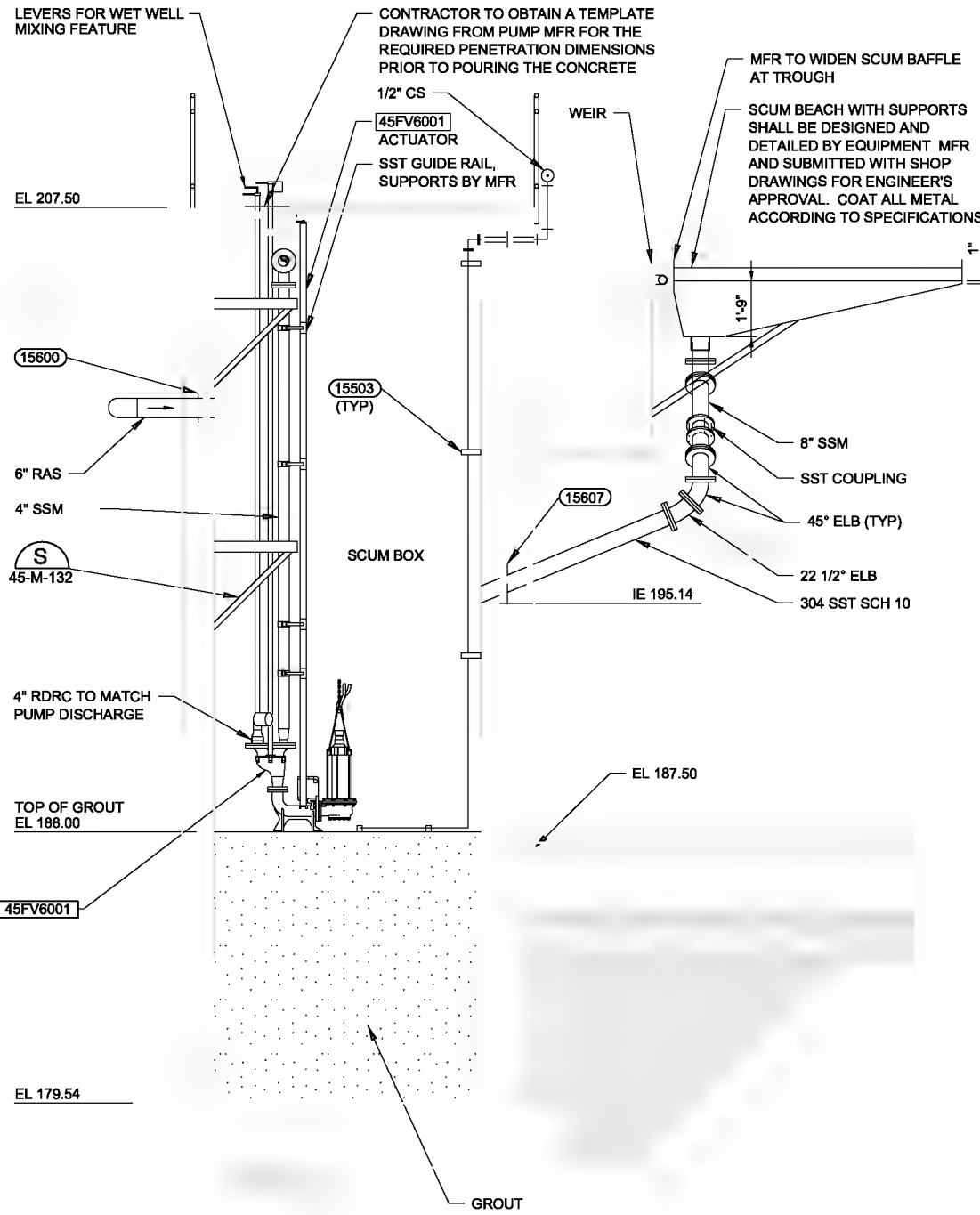
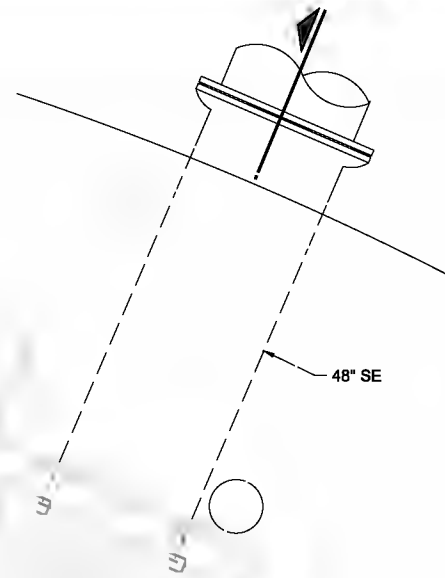
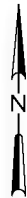


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

NEW SECONDARY CLARIFIERS
SECONDARY CLARIFIER NO. 3
SECTIONS

| | |
|-------|-------------|
| SHEET | 387 |
| DWG | 45-M-201B |
| DATE | MAY 19 2006 |
| PROJ | 326916 |

REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.



PARTIAL PLAN C
3/8"1'-0" 45-M-131

SECTION E
3/8"1'-0" 45-M-132

SECTION D
3/8"1'-0"

- NOTES:
1. SECONDARY CLARIFIER NO. 2 IE 190.35.
 2. SECONDARY CLARIFIER NO. 3 IE 189.75.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY RICHARD S. SHANLEY, STATE OF OREGON, P.E. NO. (PE 18,933).

| | | | | | | |
|--------|---------------|-----|------|----------|----|----------|
| DESIGN | M. KATALINICH | NO. | DATE | REVISION | BY | APPROVED |
| DR | M. GAGEL | | | | | |
| CHK | T. TEKIPPE | | | | | |
| APVT | R. SHANLEY | | | | | |
| | | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

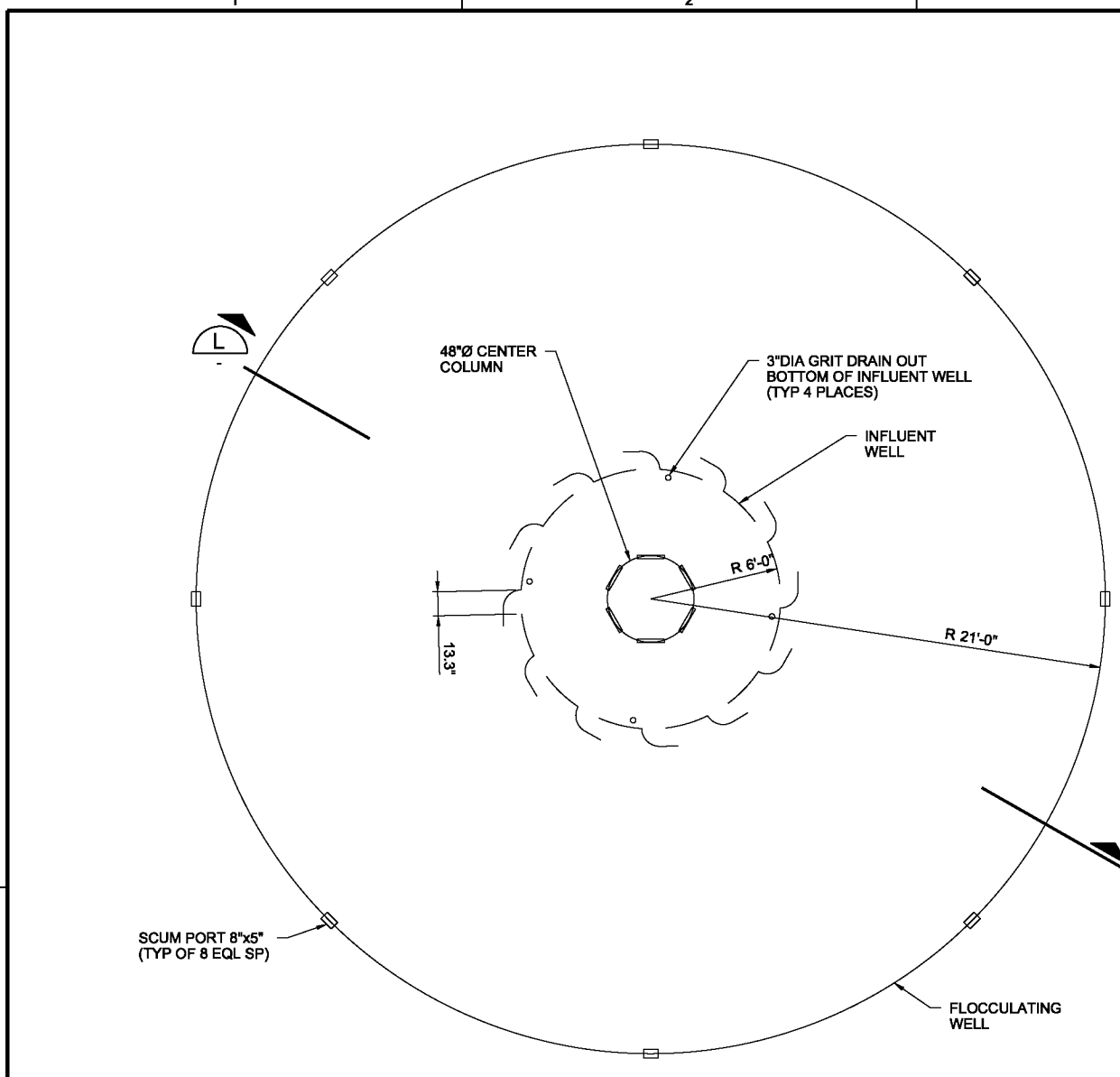


CITY OF ALBANY
WWTP-03-01
LINN COUNTY, OREGON

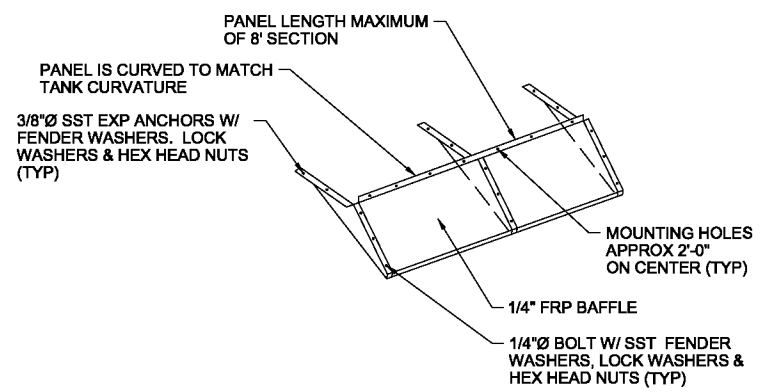
NEW SECONDARY CLARIFIERS
PARTIAL PLAN AND SECTION

| | |
|-------|-------------|
| SHEET | 388 |
| DWG | 45-M-202 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

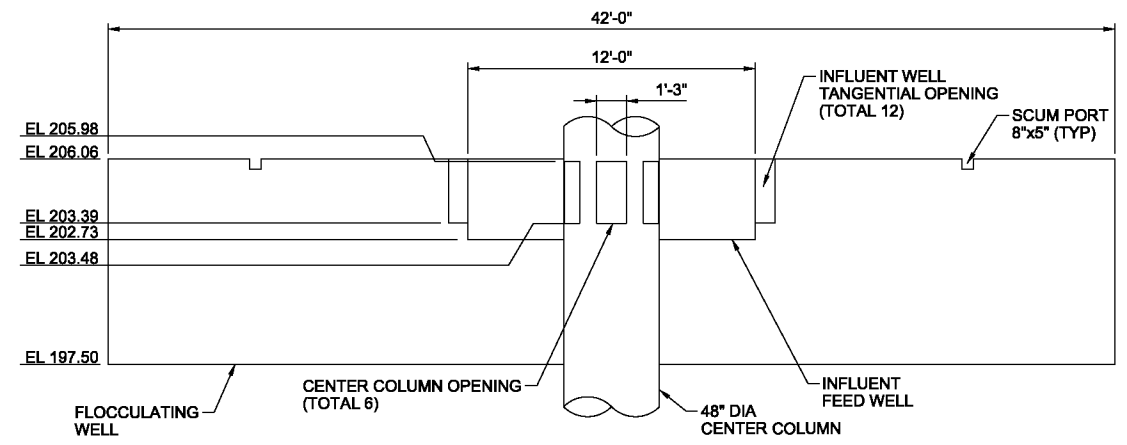
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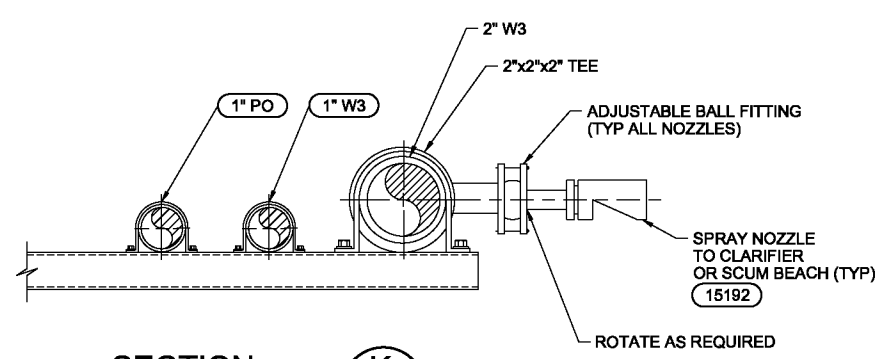
PARTIAL PLAN M
1/4"=1'-0" 45-M-131



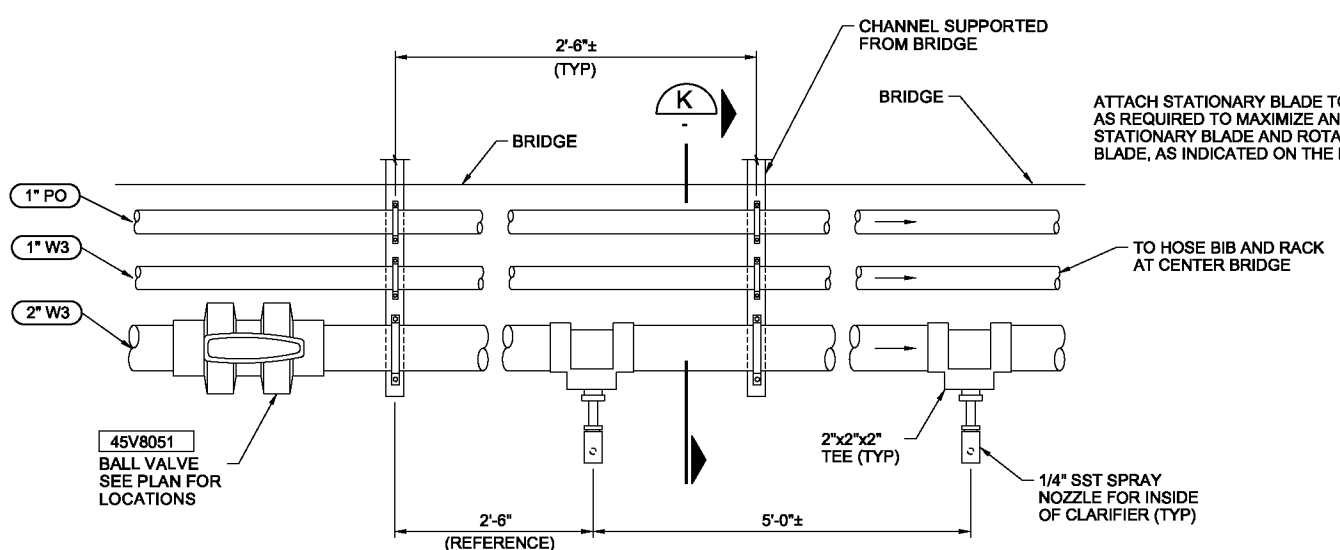
BAFFLE DETAIL I
NO SCALE 45-M-202



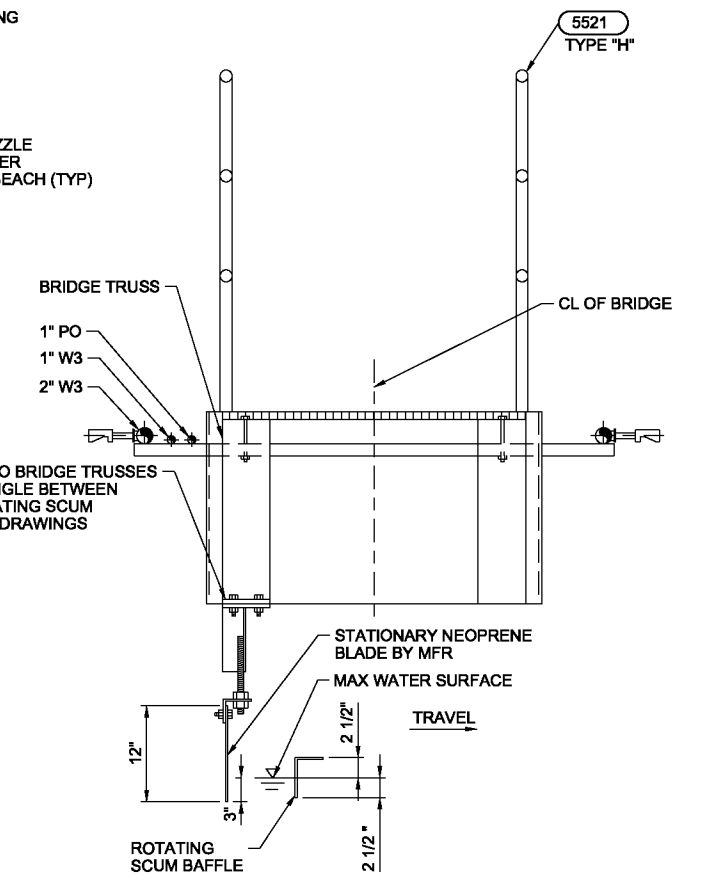
SECTION L
1/4"=1'-0"



SECTION K
NTS



PLAN VIEW DETAIL J
NTS 45-M-132



SECTION N
1"=1'-0" 45-M-131

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY RICHARD S. SHANLEY, STATE OF OREGON, P.E. NO. (PE 18,933).

| | | | | | | | |
|------|--------------|----------|------|----------|----|------|--|
| DSGN | M KATALINICH | | | | | | |
| DR | MJ GABEL | | | | | | |
| CHK | TR TEKIPPE | 01/20/10 | | | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY | APVD | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

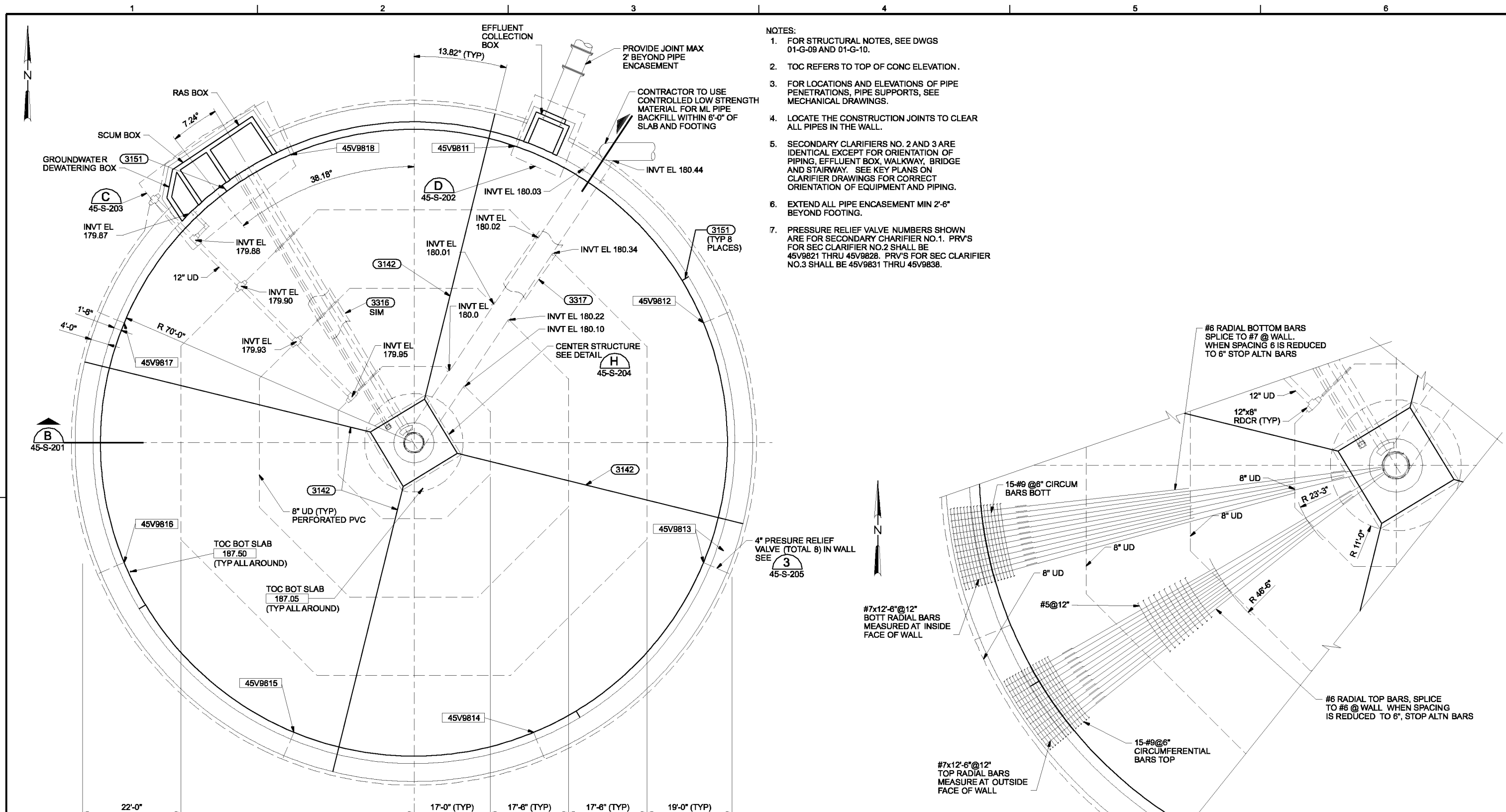


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

NEW SECONDARY CLARIFIERS
DETAILS

| | |
|-------|-------------|
| SHEET | 389 |
| DWG | 45-M-401 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:
- FOR STRUCTURAL NOTES, SEE DWGS 01-G-09 AND 01-G-10.
 - TOC REFERS TO TOP OF CONC ELEVATION.
 - FOR LOCATIONS AND ELEVATIONS OF PIPE PENETRATIONS, PIPE SUPPORTS, SEE MECHANICAL DRAWINGS.
 - LOCATE THE CONSTRUCTION JOINTS TO CLEAR ALL PIPES IN THE WALL.
 - SECONDARY CLARIFIERS NO. 2 AND 3 ARE IDENTICAL EXCEPT FOR ORIENTATION OF PIPING, EFFLUENT BOX, WALKWAY, BRIDGE AND STAIRWAY. SEE KEY PLANS ON CLARIFIER DRAWINGS FOR CORRECT ORIENTATION OF EQUIPMENT AND PIPING.
 - EXTEND ALL PIPE ENCASEMENT MIN 2'-6" BEYOND FOOTING.
 - PRESSURE RELIEF VALVE NUMBERS SHOWN ARE FOR SECONDARY CHARIFIER NO.1. PRV'S FOR SEC CLARIFIER NO.2 SHALL BE 45V9821 THRU 45V9828. PRV'S FOR SEC CLARIFIER NO.3 SHALL BE 45V9831 THRU 45V9838.

FOUNDATION PLAN - CLARIFIER NO. 1
3/32" = 1'-0"

PARTIAL PLAN - SLAB REINFORCEMENT A
1/8" = 1'-0"

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KIPP A. MARTIN STATE OF OREGON, P.E. NO. 2,429.

| | | | | | | |
|------|------------|----------|------|----------|-----|------|
| DSGN | KA MARTIN | NO. | DATE | REVISION | BY | APVD |
| DR | KA MARTIN | | | | | |
| CHK | CA GENTRY | | | | | |
| APVD | RS SHANLEY | | | | | |
| | | 01/20/10 | | | DLM | RAH |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

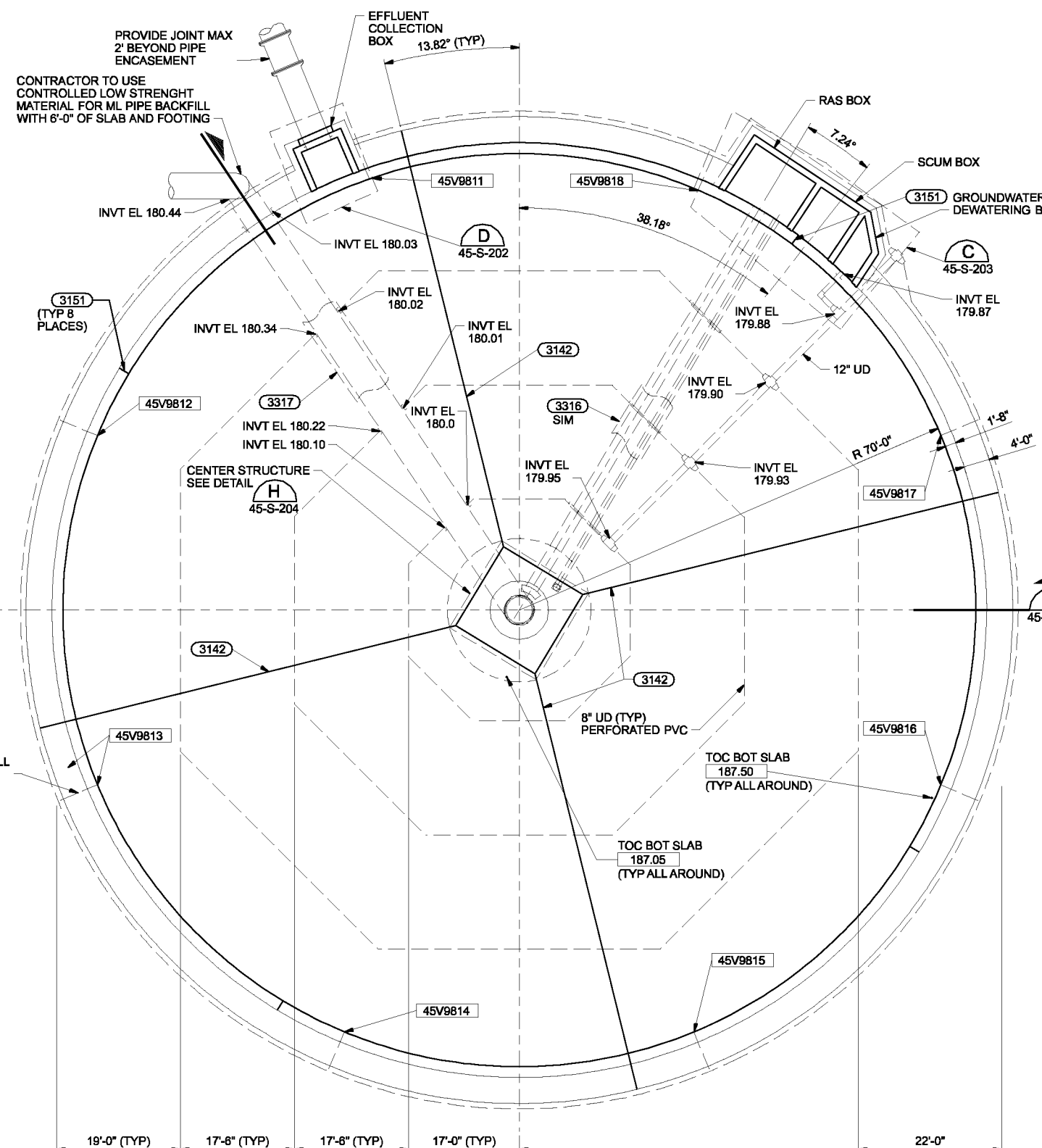


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

NEW SECONDARY CLARIFIER #1
FOUNDATION PLAN

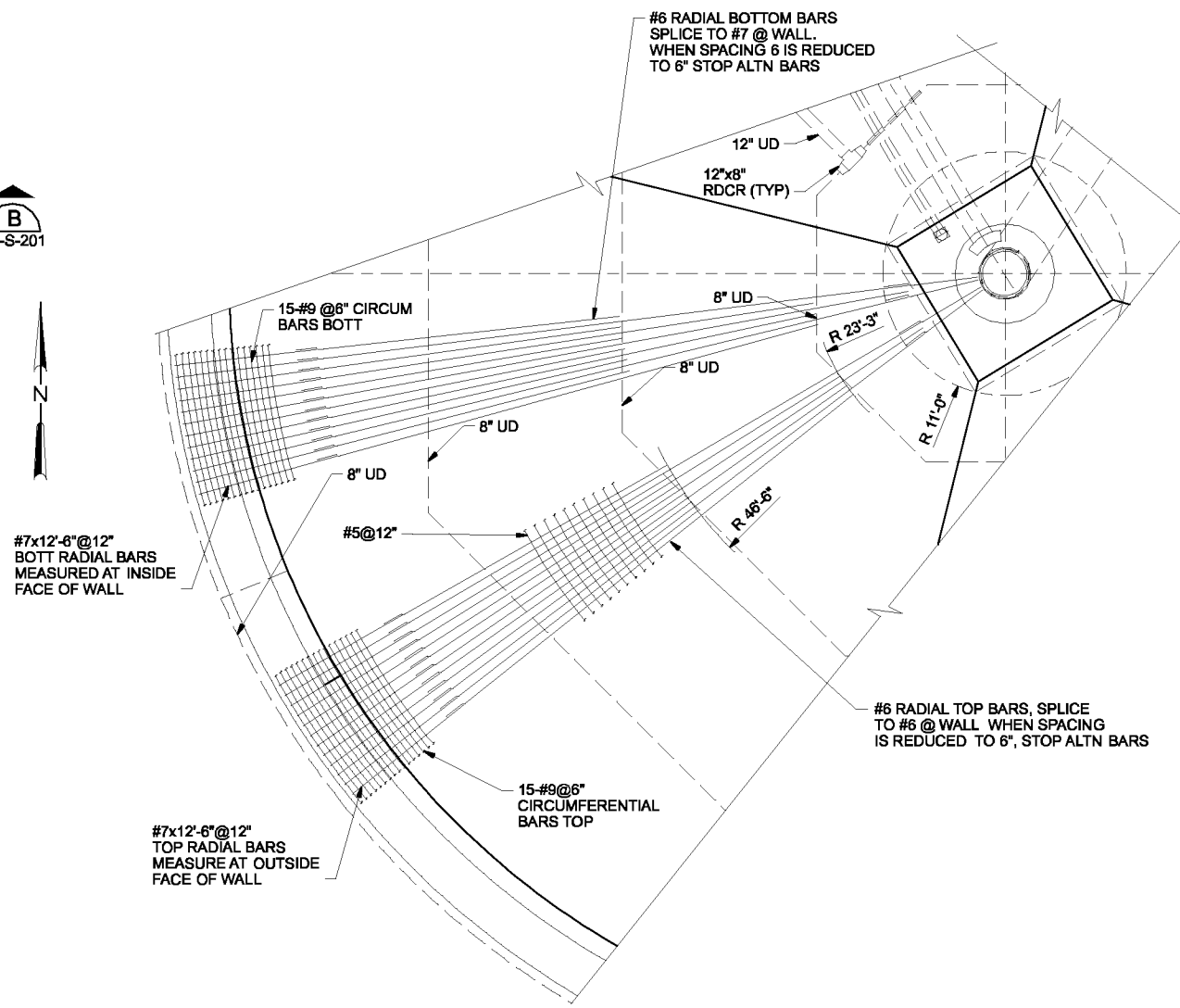
| | |
|-------|-------------|
| SHEET | 390 |
| DWG | 45-S-131 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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FOUNDATION PLAN - CLARIFIER NO. 2
3/32" = 1'-0"

- NOTES:
- FOR STRUCTURAL NOTES, SEE DWGS 01-G-09 AND 01-G-10.
 - TOC REFERS TO TOP OF CONC ELEVATION.
 - FOR LOCATIONS AND ELEVATIONS OF PIPE PENETRATIONS, PIPE SUPPORTS, SEE MECHANICAL DRAWINGS.
 - LOCATE THE CONSTRUCTION JOINTS TO CLEAR ALL PIPES IN THE WALL.
 - SECONDARY CLARIFIERS NO. 2 AND 3 ARE IDENTICAL EXCEPT FOR ORIENTATION OF PIPING, EFFLUENT BOX, WALKWAY, BRIDGE AND STAIRWAY. SEE KEY PLANS ON CLARIFIER DRAWINGS FOR CORRECT ORIENTATION OF EQUIPMENT AND PIPING.
 - EXTEND ALL PIPE ENCASEMENT MIN 2'-6" BEYOND FOOTING.
 - PRESSURE RELIEF VALVE NUMBERS SHOWN ARE FOR SECONDARY CLARIFIER NO.1. PRV'S FOR SEC CLARIFIER NO.2 SHALL BE 45V9821 THRU 45V9828. PRV'S FOR SEC CLARIFIER NO.3 SHALL BE 45V9831 THRU 45V9838.



PARTIAL PLAN - SLAB REINFORCEMENT A
1/8" = 1'-0"

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| DR | KA MARTIN | | | | | |
| CHK | CA GENTRY | | | | | |
| APVD | RS SHANLEY | | | | | |
| | | | 01/20/10 | | DLM | RAH |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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0" = 1'
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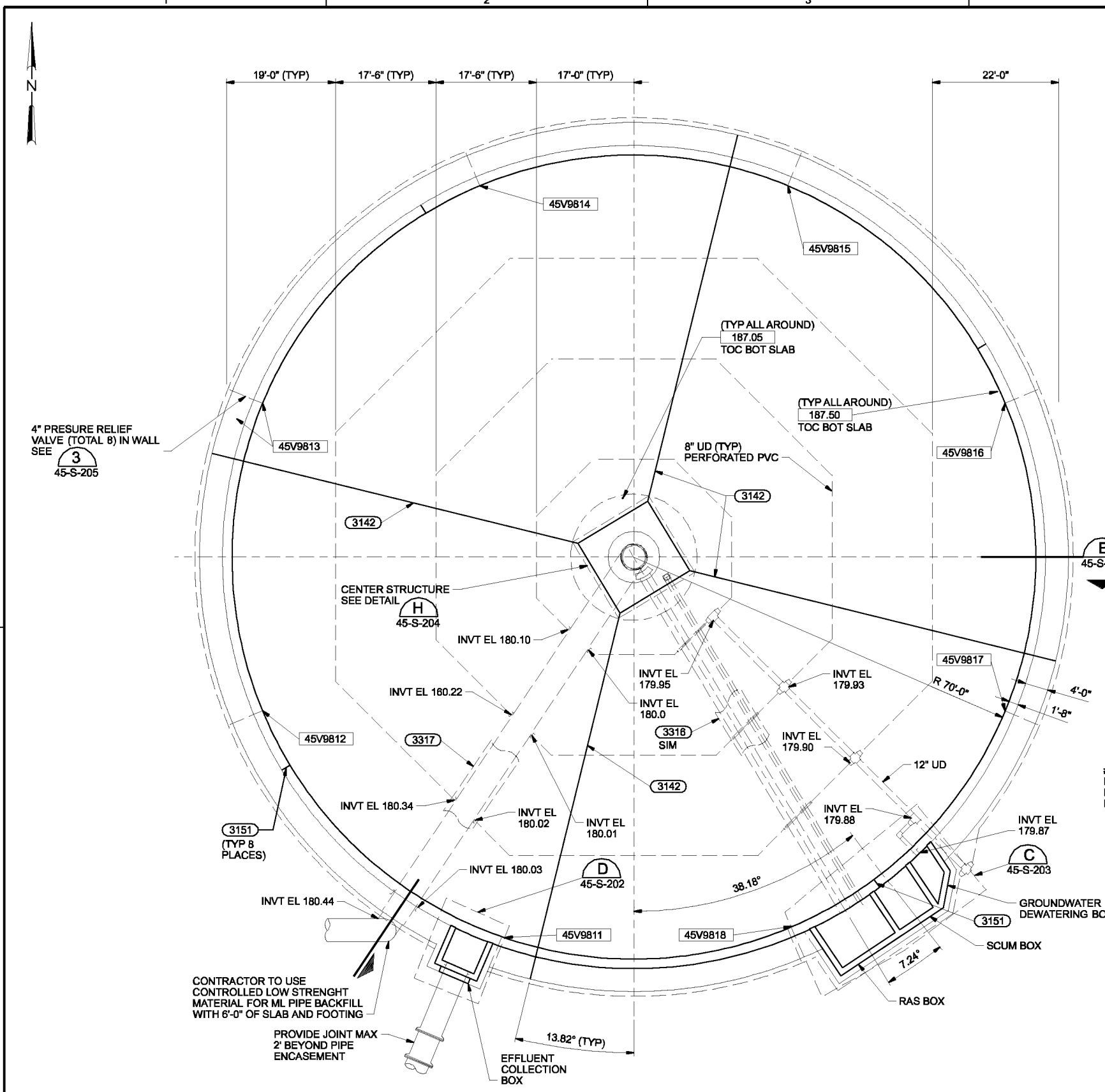


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

NEW SECONDARY CLARIFIER #2
FOUNDATION PLAN

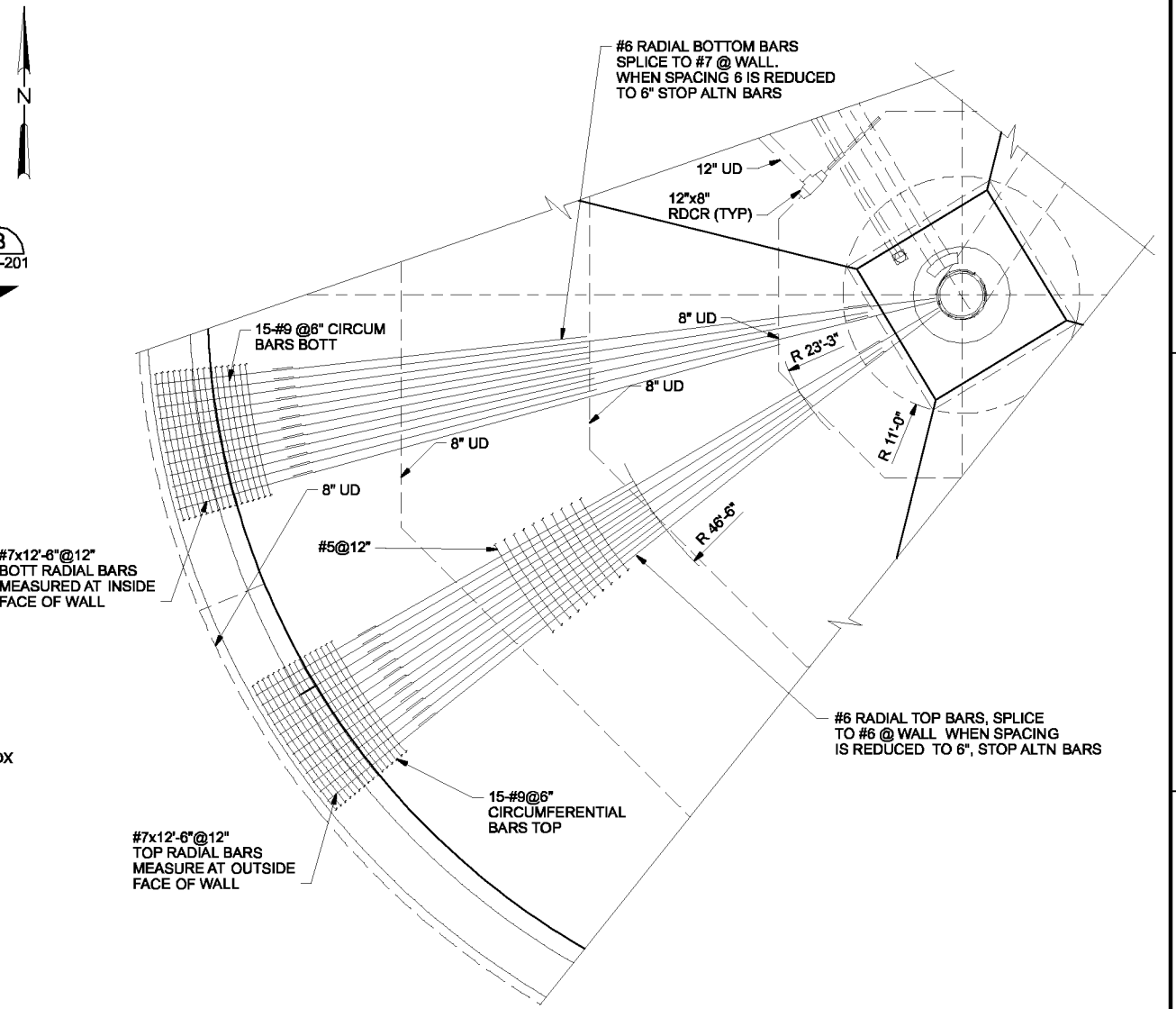
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| SHEET | 391 |
| DWG | 45-S-131A |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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FOUNDATION PLAN - CLARIFIER NO. 3
3/32" = 1'-0"

- NOTES:
- FOR STRUCTURAL NOTES, SEE DWGS 01-G-09 AND 01-G-10.
 - TOC REFERS TO TOP OF CONC ELEVATION.
 - FOR LOCATIONS AND ELEVATIONS OF PIPE PENETRATIONS, PIPE SUPPORTS, SEE MECHANICAL DRAWINGS.
 - LOCATE THE CONSTRUCTION JOINTS TO CLEAR ALL PIPES IN THE WALL.
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 - EXTEND ALL PIPE ENCASEMENT MIN 2'-6" BEYOND FOOTING.
 - PRESSURE RELIEF VALVE NUMBERS SHOWN ARE FOR SECONDARY CHARIFIER NO.1. PRV'S FOR SEC CLARIFIER NO.2 SHALL BE 45V9821 THRU 45V9828. PRV'S FOR SEC CLARIFIER NO.3 SHALL BE 45V9831 THRU 45V9838.



PARTIAL PLAN - SLAB REINFORCEMENT A
1/8" = 1'-0"

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| | | | | | | | | | |
|------|------------|----------|------|----------|----|------|--|--|--|
| DSGN | KA MARTIN | | | | | | | | |
| DR | KA MARTIN | | | | | | | | |
| CHK | CA GENTRY | 01/20/10 | | | | | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY | APVD | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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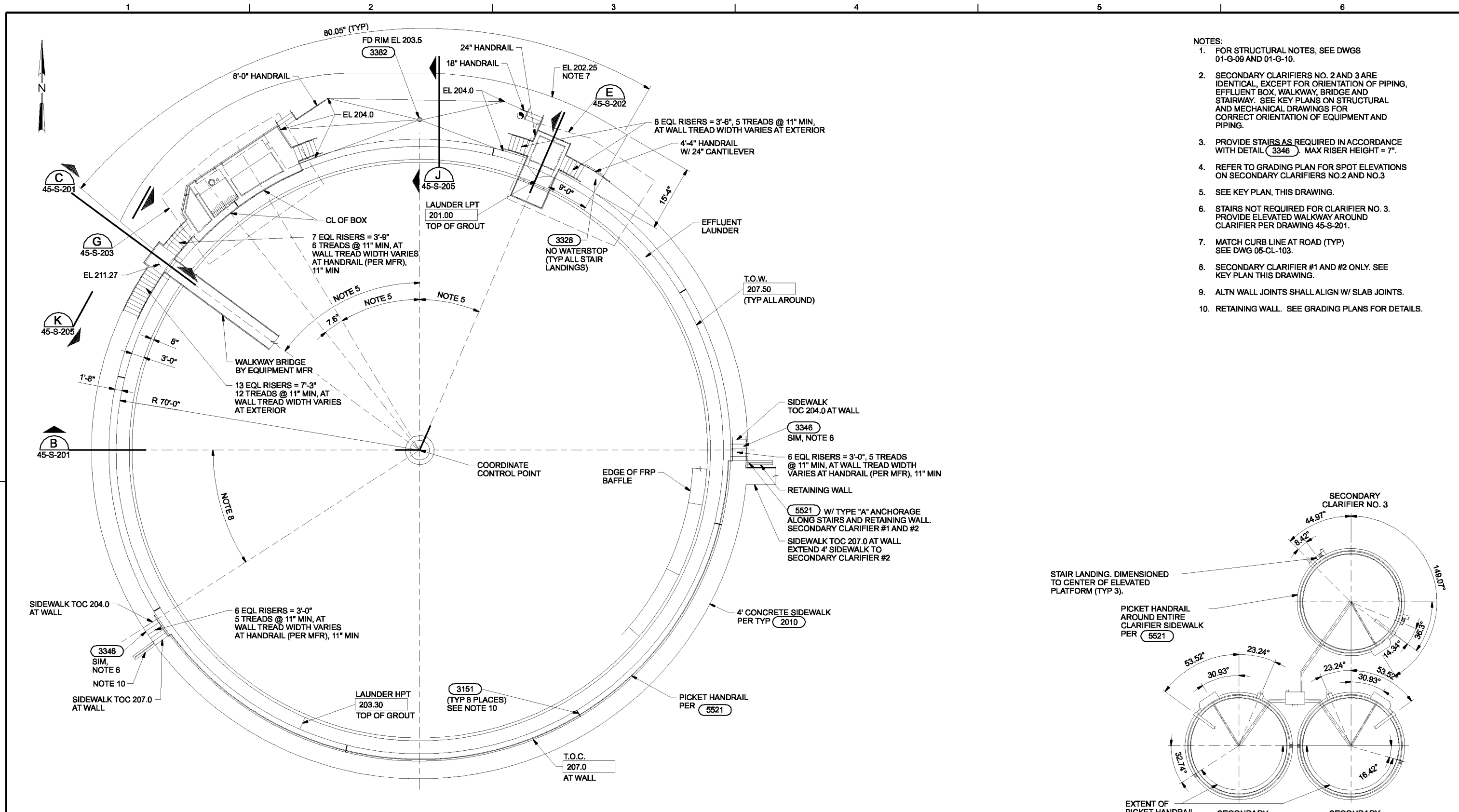


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

NEW SECONDARY CLARIFIER #3
FOUNDATION PLAN

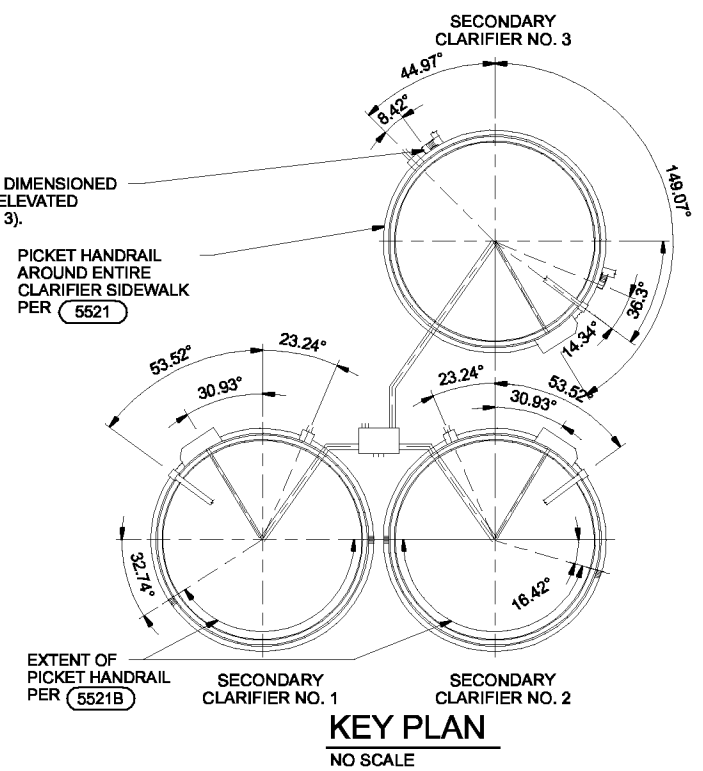
| | |
|-------|-------------|
| SHEET | 392 |
| DWG | 45-S-131B |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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 - PROVIDE STAIRS AS REQUIRED IN ACCORDANCE WITH DETAIL 3346. MAX RISER HEIGHT = 7".
 - REFER TO GRADING PLAN FOR SPOT ELEVATIONS ON SECONDARY CLARIFIERS NO.2 AND NO.3
 - SEE KEY PLAN, THIS DRAWING.
 - STAIRS NOT REQUIRED FOR CLARIFIER NO. 3. PROVIDE ELEVATED WALKWAY AROUND CLARIFIER PER DRAWING 45-S-201.
 - MATCH CURB LINE AT ROAD (TYP) SEE DWG 05-CL-103.
 - SECONDARY CLARIFIER #1 AND #2 ONLY. SEE KEY PLAN THIS DRAWING.
 - ALTN WALL JOINTS SHALL ALIGN W/ SLAB JOINTS.
 - RETAINING WALL. SEE GRADING PLANS FOR DETAILS.

TOP PLAN - CLARIFIER NO. 1
3/32" = 1'-0"



KEY PLAN
NO SCALE

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|------|------------|----------|------|----------|----|------|--|
| DSGN | KA MARTIN | | | | | | |
| DR | MJ GABEL | | | | | | |
| CHK | CA GENTRY | 01/20/10 | | | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY | APVD | |

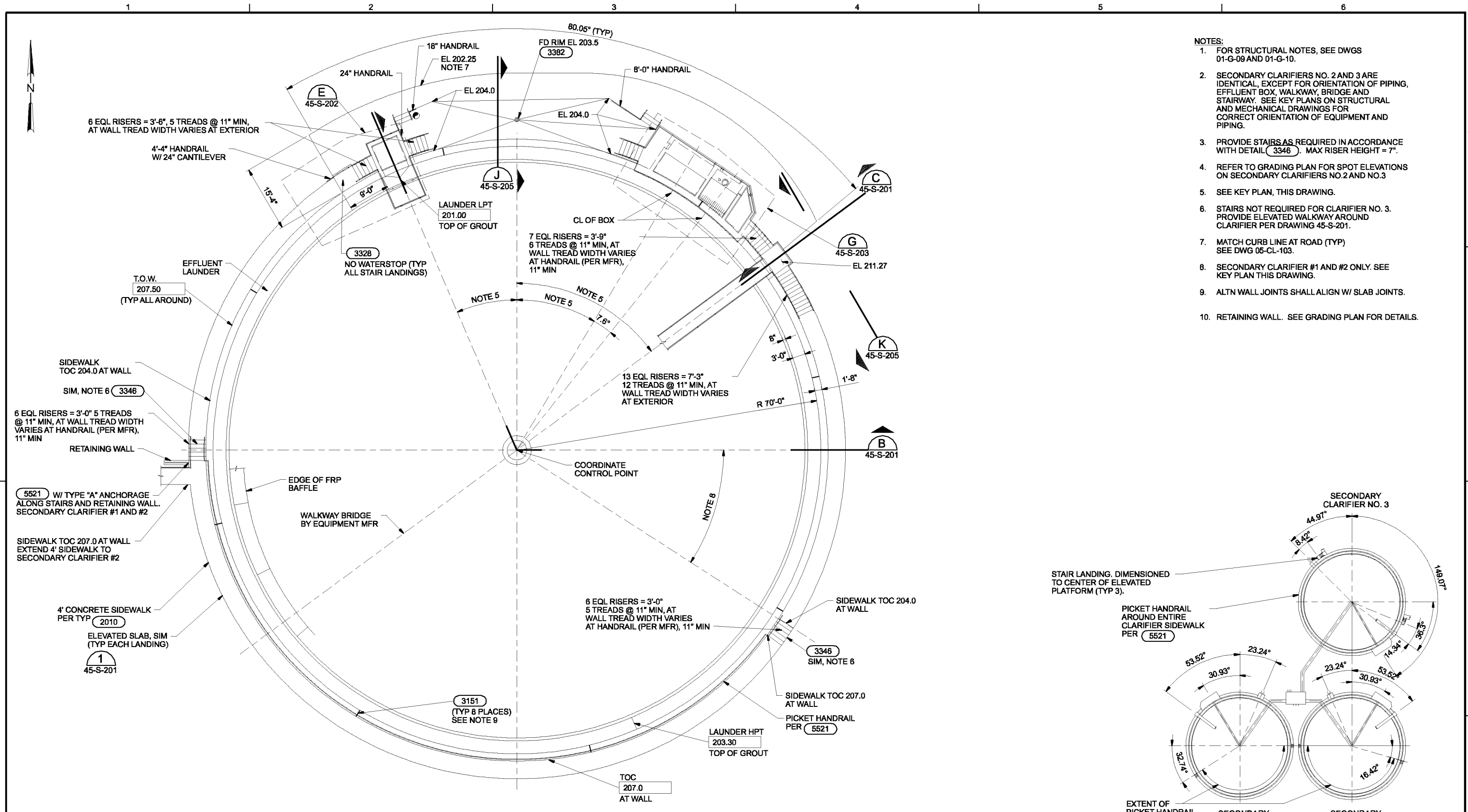
VERIFY SCALE
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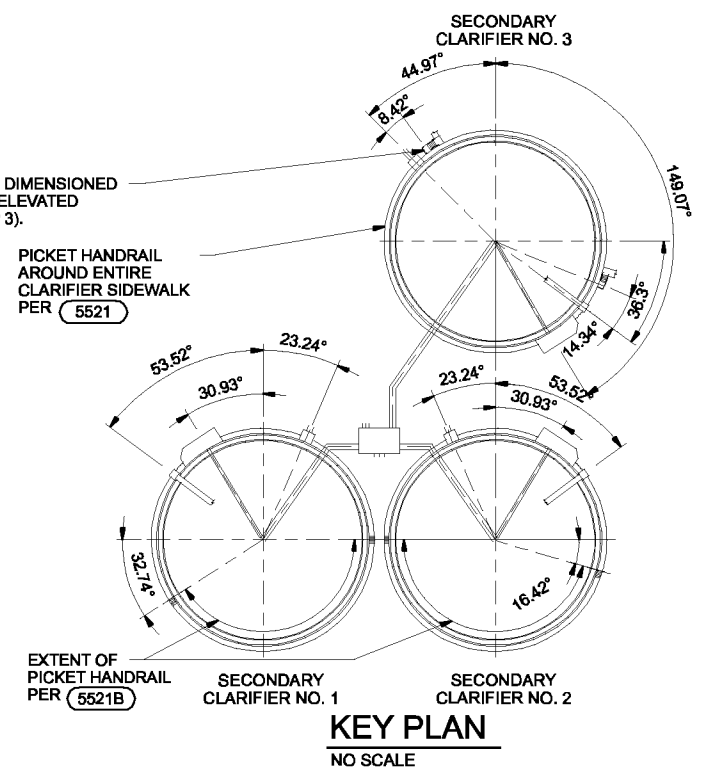
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

| | | |
|----------------------------|-------|-------------|
| NEW SECONDARY CLARIFIER #1 | SHEET | 393 |
| TOP PLAN | DWG | 45-S-132 |
| | DATE | MAY 19 2006 |
| | PROJ | 326918 |

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 - PROVIDE STAIRS AS REQUIRED IN ACCORDANCE WITH DETAIL (3346). MAX RISER HEIGHT = 7".
 - REFER TO GRADING PLAN FOR SPOT ELEVATIONS ON SECONDARY CLARIFIERS NO. 2 AND NO. 3
 - SEE KEY PLAN, THIS DRAWING.
 - STAIRS NOT REQUIRED FOR CLARIFIER NO. 3. PROVIDE ELEVATED WALKWAY AROUND CLARIFIER PER DRAWING 45-S-201.
 - MATCH CURB LINE AT ROAD (TYP) SEE DWG 05-CL-103.
 - SECONDARY CLARIFIER #1 AND #2 ONLY. SEE KEY PLAN THIS DRAWING.
 - ALTN WALL JOINTS SHALL ALIGN W/ SLAB JOINTS.
 - RETAINING WALL. SEE GRADING PLAN FOR DETAILS.



TOP PLAN - CLARIFIER NO. 2
 3/32" = 1'-0"

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| DSGN | KA MARTIN | | | | | | |
| DR | MJ GABEL | | | | | | |
| CHK | CA GENTRY | 01/20/10 | | | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY | APVD | |

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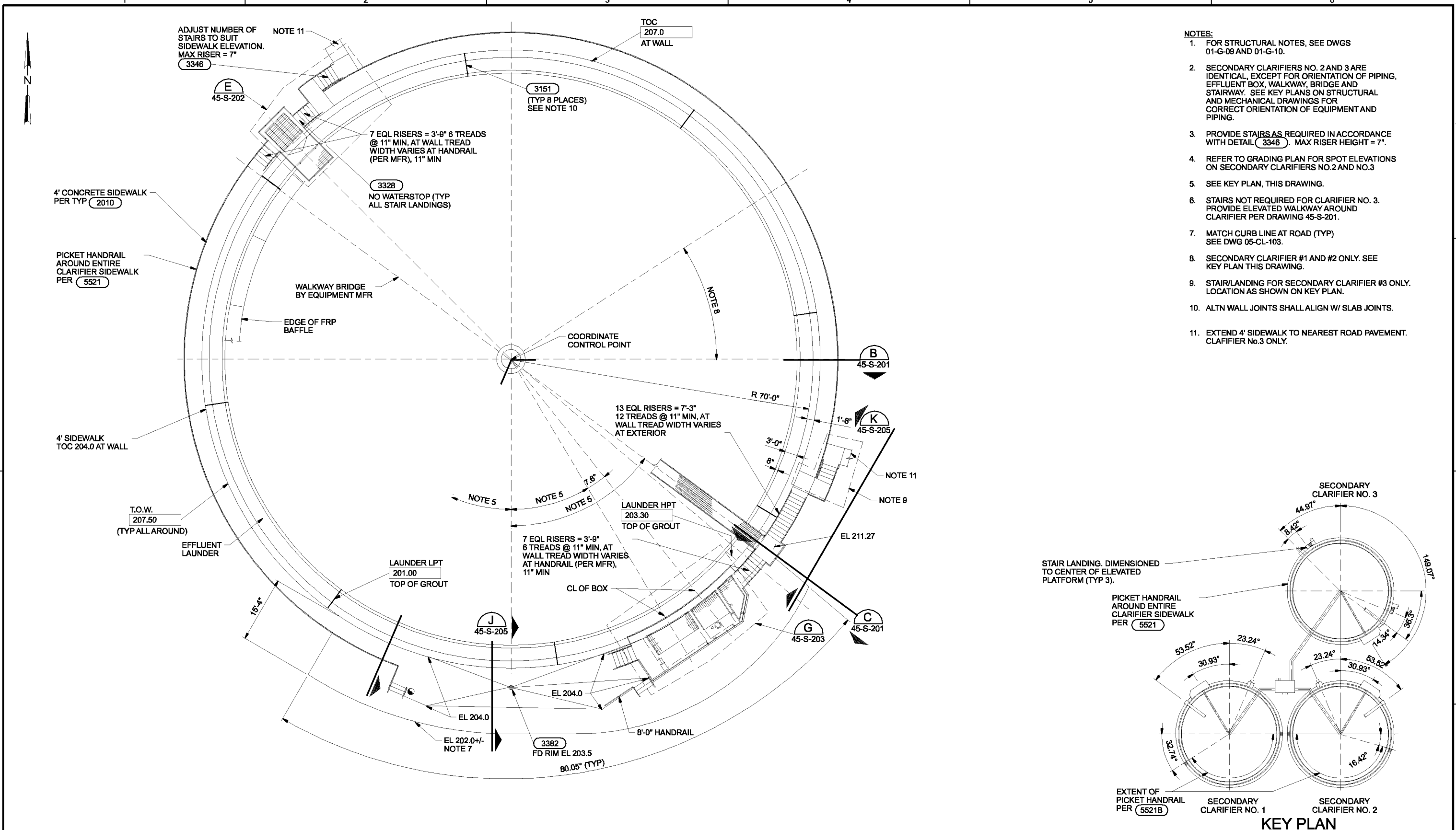


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

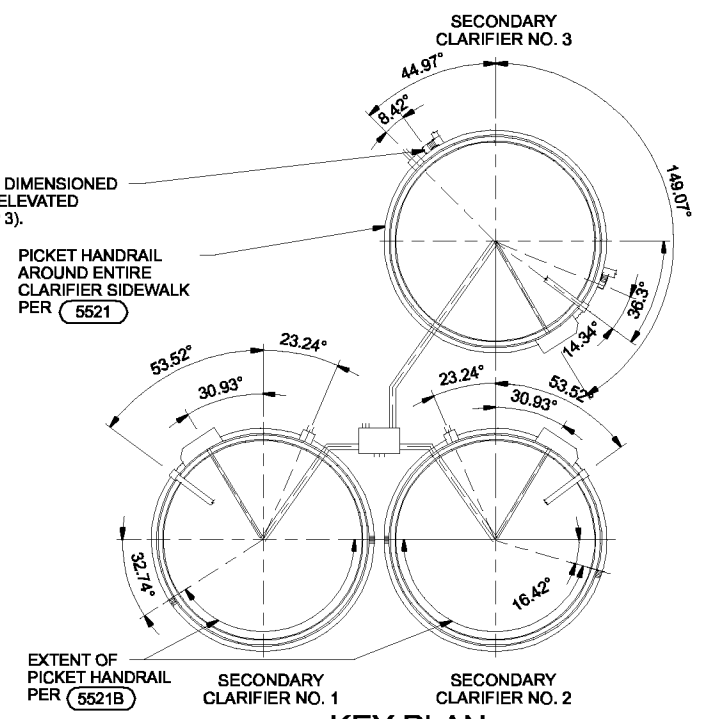
NEW SECONDARY CLARIFIER #2
 TOP PLAN

| | |
|-------|-------------|
| SHEET | 394 |
| DWG | 45-S-132A |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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 - REFER TO GRADING PLAN FOR SPOT ELEVATIONS ON SECONDARY CLARIFIERS NO.2 AND NO.3
 - SEE KEY PLAN, THIS DRAWING.
 - STAIRS NOT REQUIRED FOR CLARIFIER NO. 3. PROVIDE ELEVATED WALKWAY AROUND CLARIFIER PER DRAWING 45-S-201.
 - MATCH CURB LINE AT ROAD (TYP) SEE DWG 05-CL-103.
 - SECONDARY CLARIFIER #1 AND #2 ONLY. SEE KEY PLAN THIS DRAWING.
 - STAIR/LANDING FOR SECONDARY CLARIFIER #3 ONLY. LOCATION AS SHOWN ON KEY PLAN.
 - ALTN WALL JOINTS SHALL ALIGN W/ SLAB JOINTS.
 - EXTEND 4' SIDEWALK TO NEAREST ROAD PAVEMENT. CLARIFIER NO.3 ONLY.



TOP PLAN - CLARIFIER NO. 3
3/32" = 1'-0"

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| DSGN | KA MARTIN | NO. | DATE | REVISION | BY | APVD |
| DR | MJ GABEL | | | | | |
| CHK | CA GENTRY | | | | | |
| APVD | RS SHANLEY | | | | | |
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| | | 01/20/10 | | | DLM | RAH |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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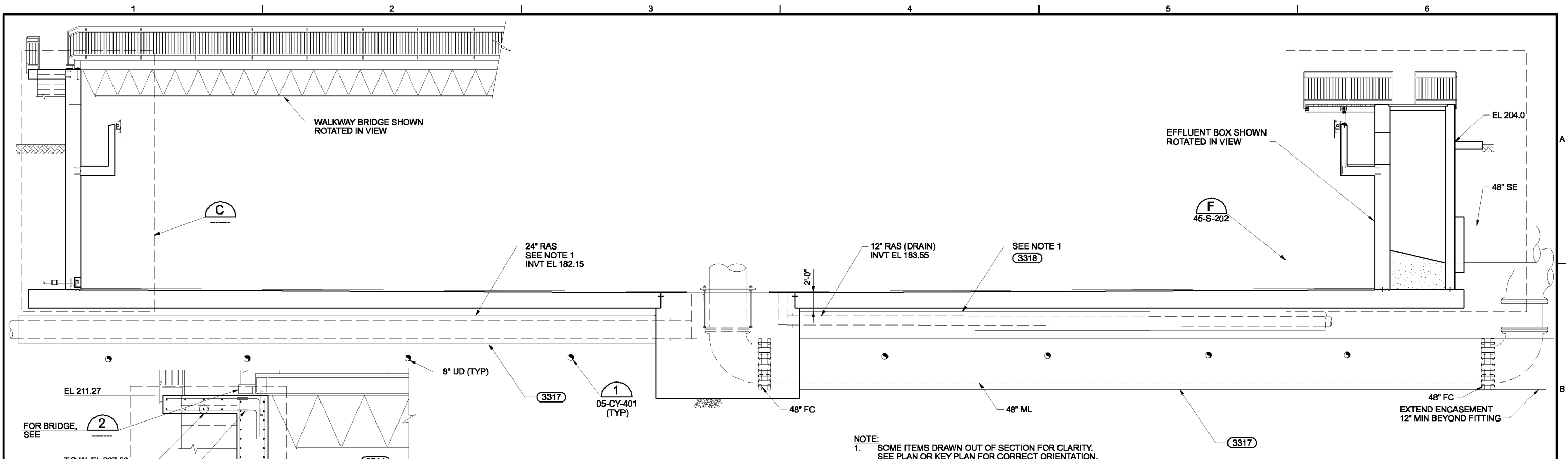


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

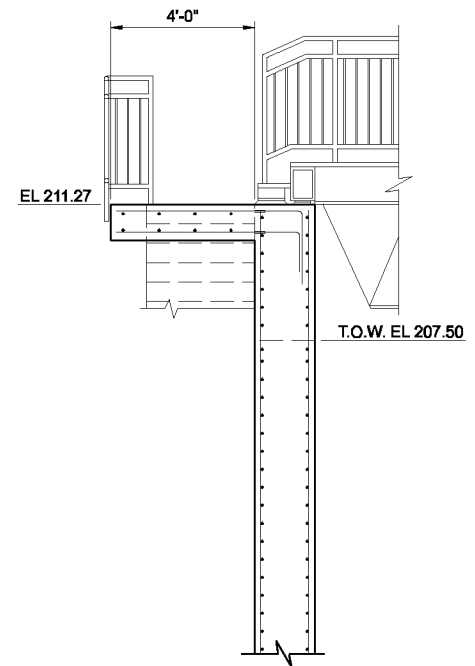
NEW SECONDARY CLARIFIER #3
TOP PLAN

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|-------|-------------|
| SHEET | 395 |
| DWG | 45-S-132B |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

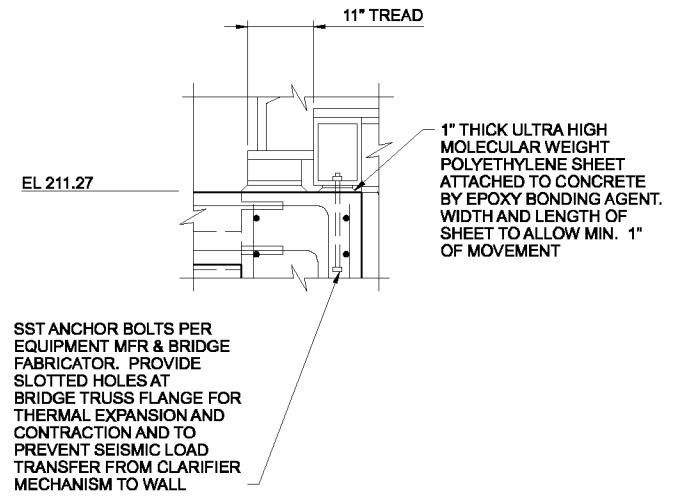
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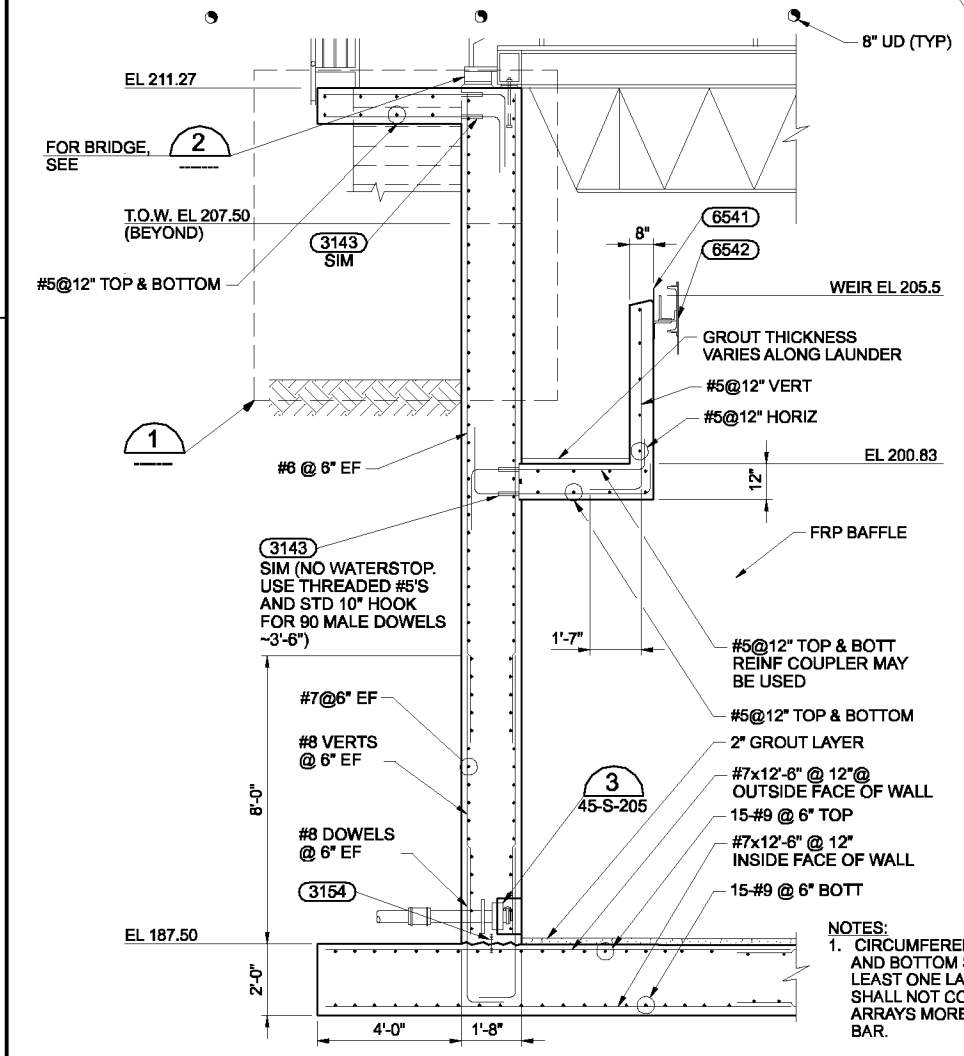
SECTION B
3/16"=1'-0"
45-S-131
45-S-132



DETAIL 1
3/8"=1'-0"



DETAIL 2
3/4"=1'-0"



SECTION C
3/8"=1'-0"
45-S-132

- NOTES:**
1. CIRCUMFERENTIAL BARS LAP SPLICES IN WALL AND BOTTOM SLAB SHALL BE STAGGERED AT LEAST ONE LAP SPLICE LENGTH OR 3 FEET, AND SHALL NOT COINCIDE IN VERTICAL OR HORIZONTAL ARRAYS MORE FREQUENTLY THAN EVERY THIRD BAR.
 2. ALL PENETRATIONS IN SLABS & WALL SHALL CONFORM TO (3301).
 3. FOR LOCATIONS & ELEVATIONS OF PIPE PENETRATIONS, SEE MECHANICAL DRAWINGS.

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| DR | MJ GABEL | | | | | |
| CHK | CA GENTRY | | | | | |
| APVD | RS SHANLEY | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | DLM | RAH | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | | |

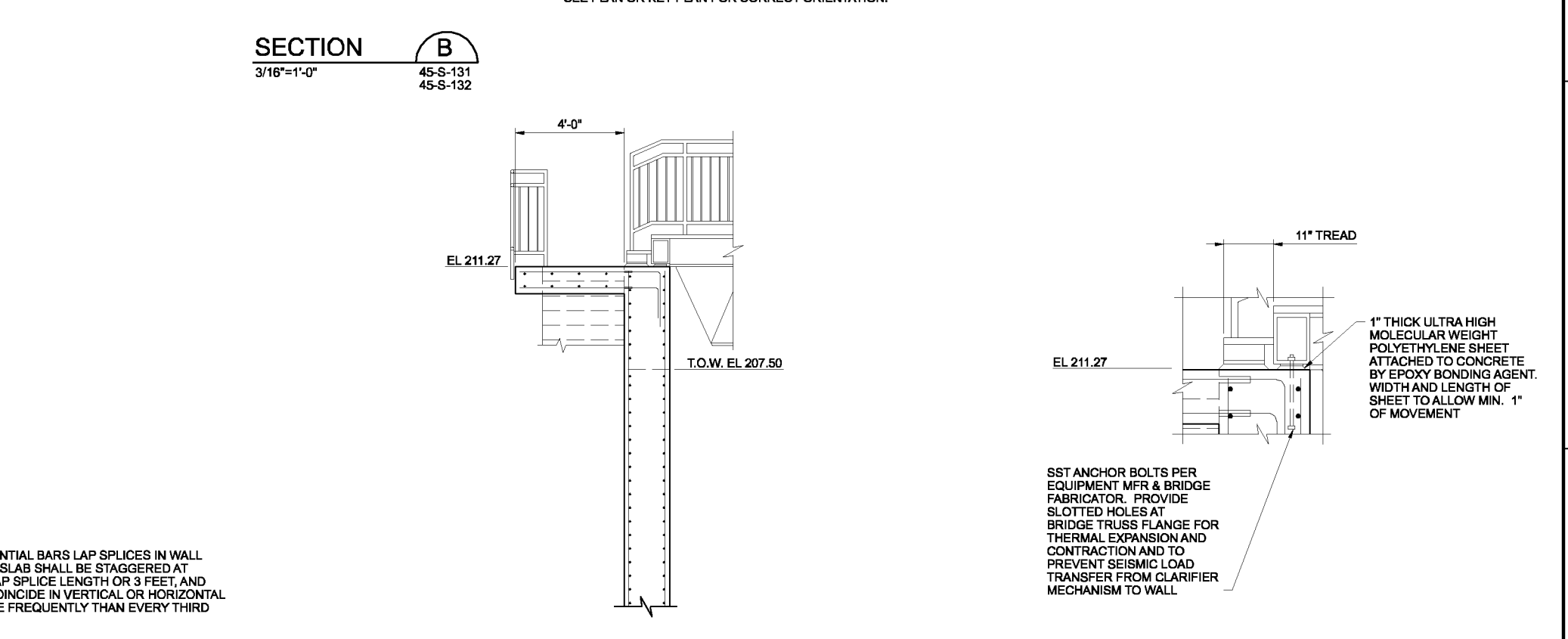
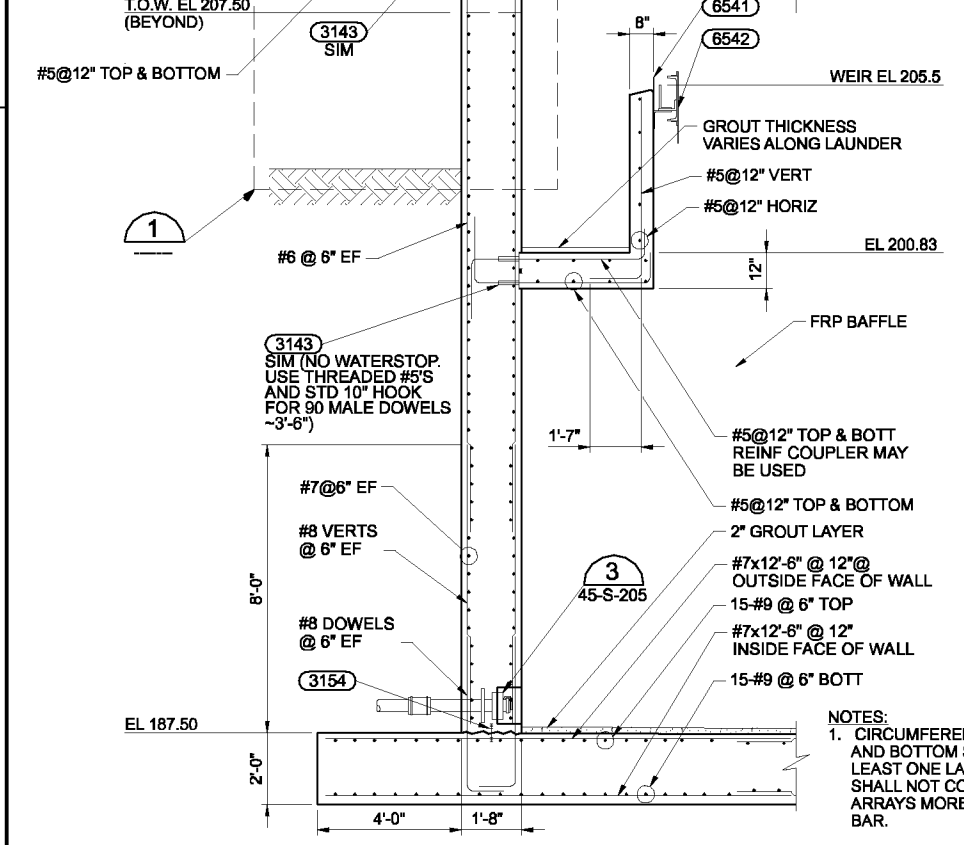
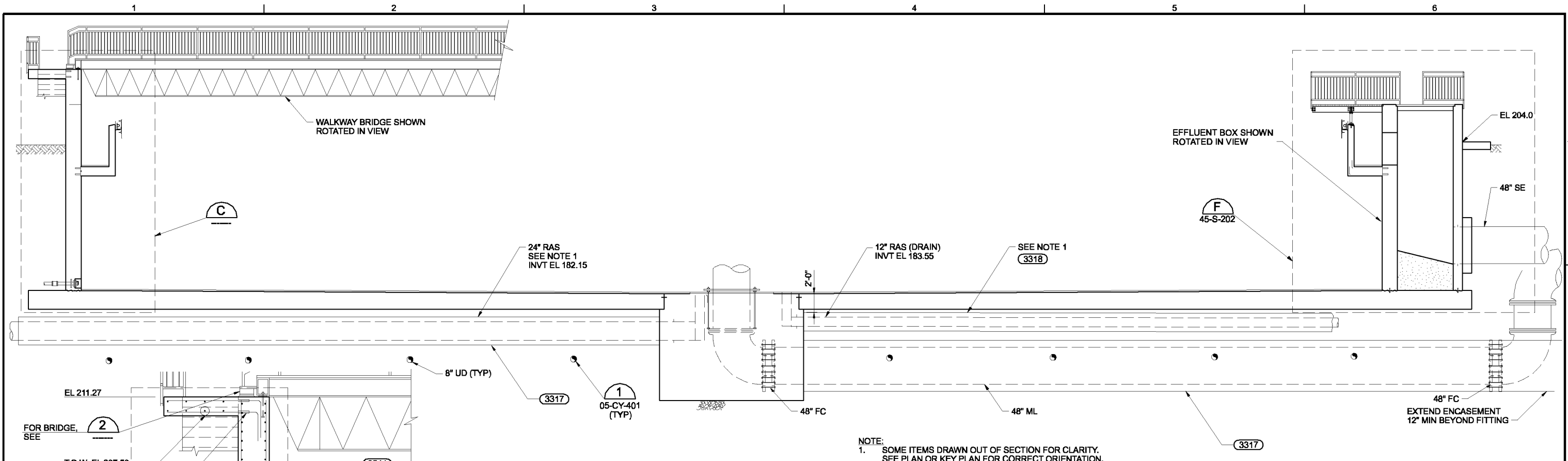


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

NEW SECONDARY CLARIFIER #1
SECTIONS

| | |
|-------|-------------|
| SHEET | 396 |
| DWG | 45-S-201 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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| DR | MJGABEL | | | | | |
| CHK | CAGENTRY | | | | | |
| APVD | RS SHANLEY | | | | | |
| | | 01/20/10 | | | DLM | RAH |
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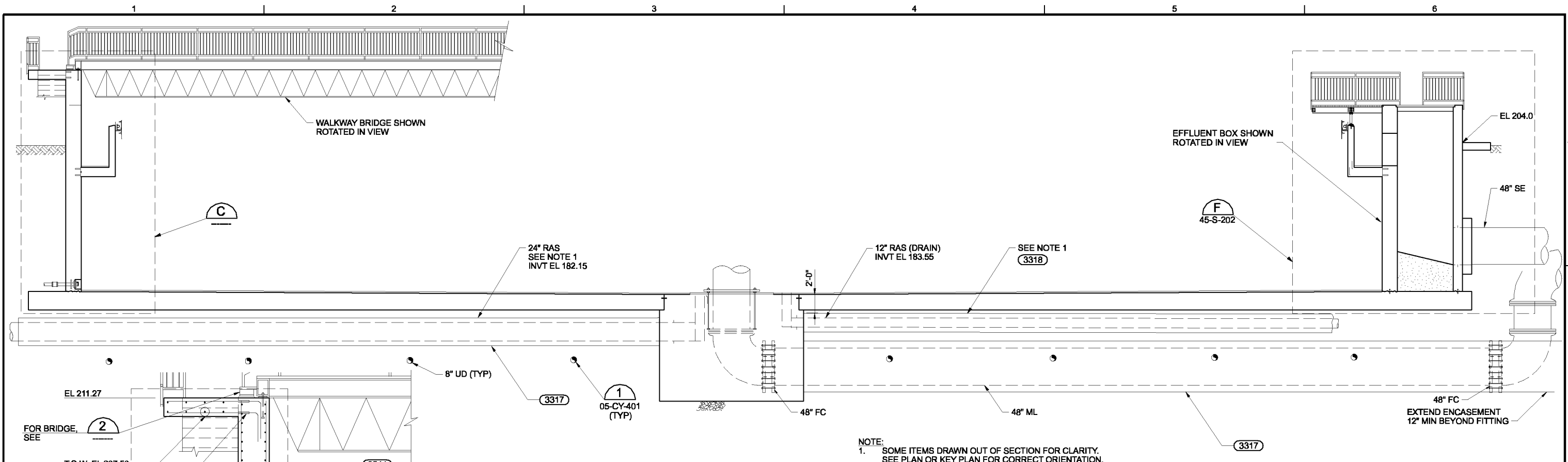
CH2MHILL **CAROLLO** engineers

CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

NEW SECONDARY CLARIFIER #2
 SECTIONS

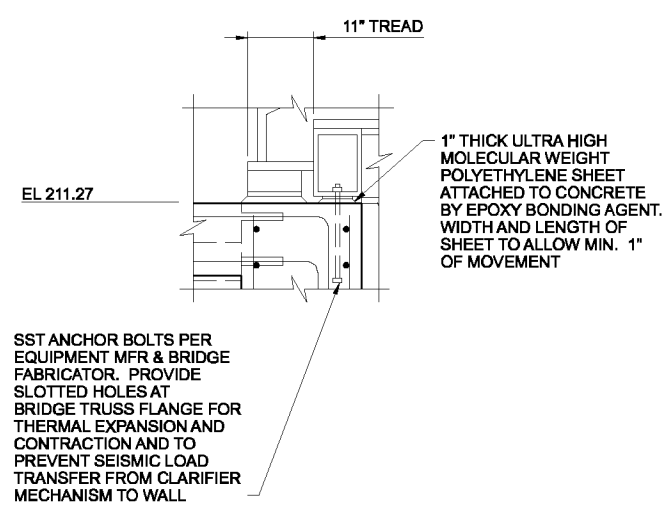
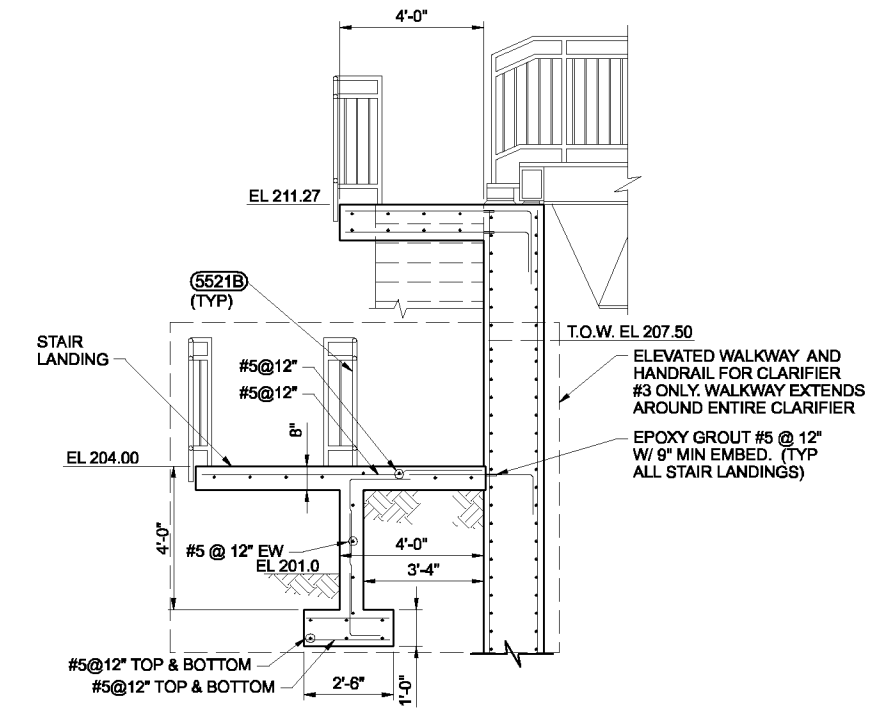
| | |
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| SHEET | 397 |
| DWG | 45-S-201A |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOTE:
1. SOME ITEMS DRAWN OUT OF SECTION FOR CLARITY. SEE PLAN OR KEY PLAN FOR CORRECT ORIENTATION.

SECTION B
3/16"=1'-0" 45-S-131 45-S-132



- NOTES:
1. CIRCUMFERENTIAL BARS LAP SPLICES IN WALL AND BOTTOM SLAB SHALL BE STAGGERED AT LEAST ONE LAP SPLICE LENGTH OR 3 FEET, AND SHALL NOT COINCIDE IN VERTICAL OR HORIZONTAL ARRAYS MORE FREQUENTLY THAN EVERY THIRD BAR.
 2. ALL PENETRATIONS IN SLABS & WALL SHALL CONFORM TO (3301).
 3. FOR LOCATIONS & ELEVATIONS OF PIPE PENETRATIONS, SEE MECHANICAL DRAWINGS.

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| | | | | | | | | | |
|---|------------|-----|------|----------|----|------|-----|-----|---|
| DSGN | KA MARTIN | NO. | DATE | REVISION | BY | APVD | DLM | RAH | VERIFY SCALE |
| DR | MJ GABEL | | | | | | | | BAR IS ONE INCH ON ORIGINAL DRAWING. |
| CHK | CA GENTRY | | | | | | | | 0 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| APVD | RS SHANLEY | | | | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | | | | | | | | |

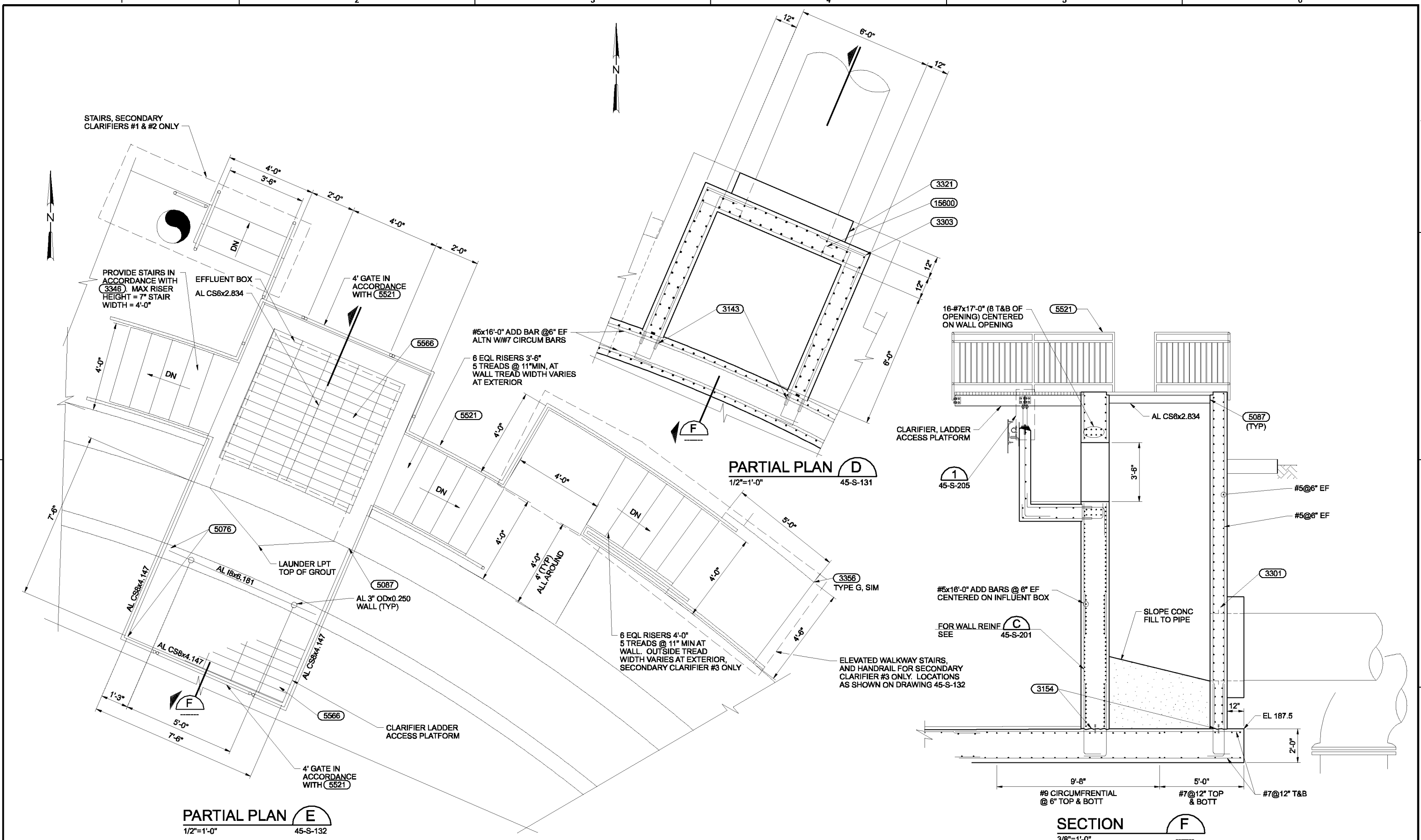


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

NEW SECONDARY CLARIFIER #3
SECTIONS

| | |
|-------|-------------|
| SHEET | 398 |
| DWG | 45-S-201B |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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| | | | | | | |
|------|------------|----------|------|----------|-----|------|
| DSGN | KA MARTIN | NO. | DATE | REVISION | BY | APVD |
| DR | MJ GABEL | | | | | |
| CHK | CA GENTRY | | | | | |
| APVD | RS SHANLEY | | | | | |
| | | | | | | |
| | | 01/20/10 | | | DLM | RAH |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

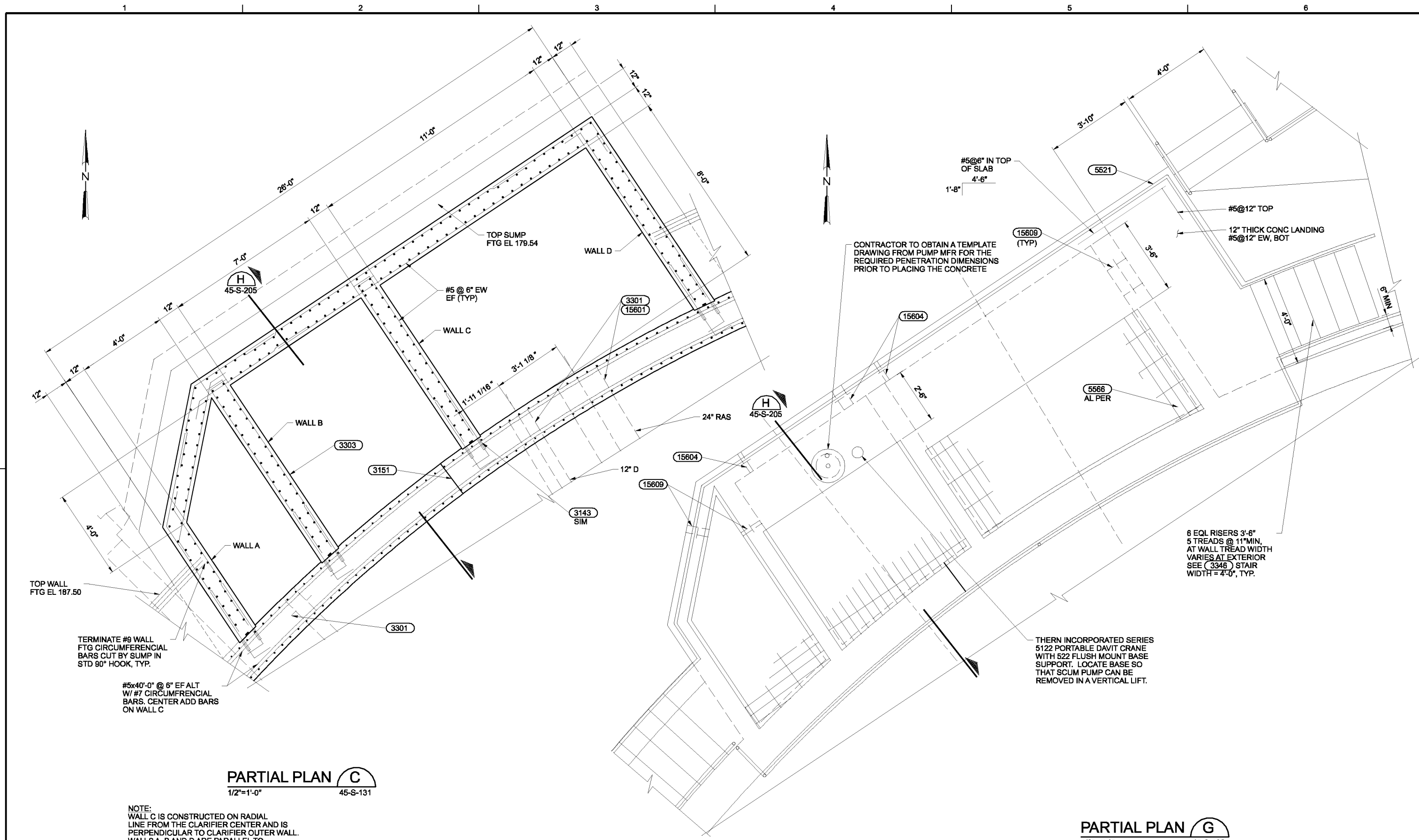
VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

| | |
|---------------------------|-------------|
| NEW SECONDARY CLARIFIERS | |
| PARTIAL PLANS AND SECTION | |
| SHEET | 399 |
| DWG | 45-S-202 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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PARTIAL PLAN C
1/2"=1'-0" 45-S-131

NOTE:
WALL C IS CONSTRUCTED ON RADIAL
LINE FROM THE CLARIFIER CENTER AND IS
PERPENDICULAR TO CLARIFIER OUTER WALL.
WALLS A, B AND D ARE PARALLEL TO
WALL C.

PARTIAL PLAN G
1/2"=1'-0" 45-S-132

THE CONTRACT DOCUMENT
DRAWINGS ARE PRINTED
DOCUMENTS WHICH DEFINE
THE SCOPE, EXTENT, AND
CHARACTER OF THE WORK.
THE ORIGINAL DOCUMENT
DRAWINGS WERE SEALED
AND SIGNED 05/06 BY
KIPP A. MARTIN, STATE OF
OREGON, P.E. NO. (PE 2,429).

| | | | | | | |
|------|------------|-----|------|----------|----|------|
| DSGN | KA MARTIN | NO. | DATE | REVISION | BY | APVD |
| DR | MJ GABEL | | | | | |
| CHK | CA GENTRY | | | | | |
| APVD | RS SHANLEY | | | | | |

(FOR LIMITATIONS SEE RECORD
DRAWING NOTE ON SHEET 1)
AS-BUILT

| |
|---|
| VERIFY SCALE |
| BAR IS ONE INCH ON ORIGINAL DRAWING. |
| IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |

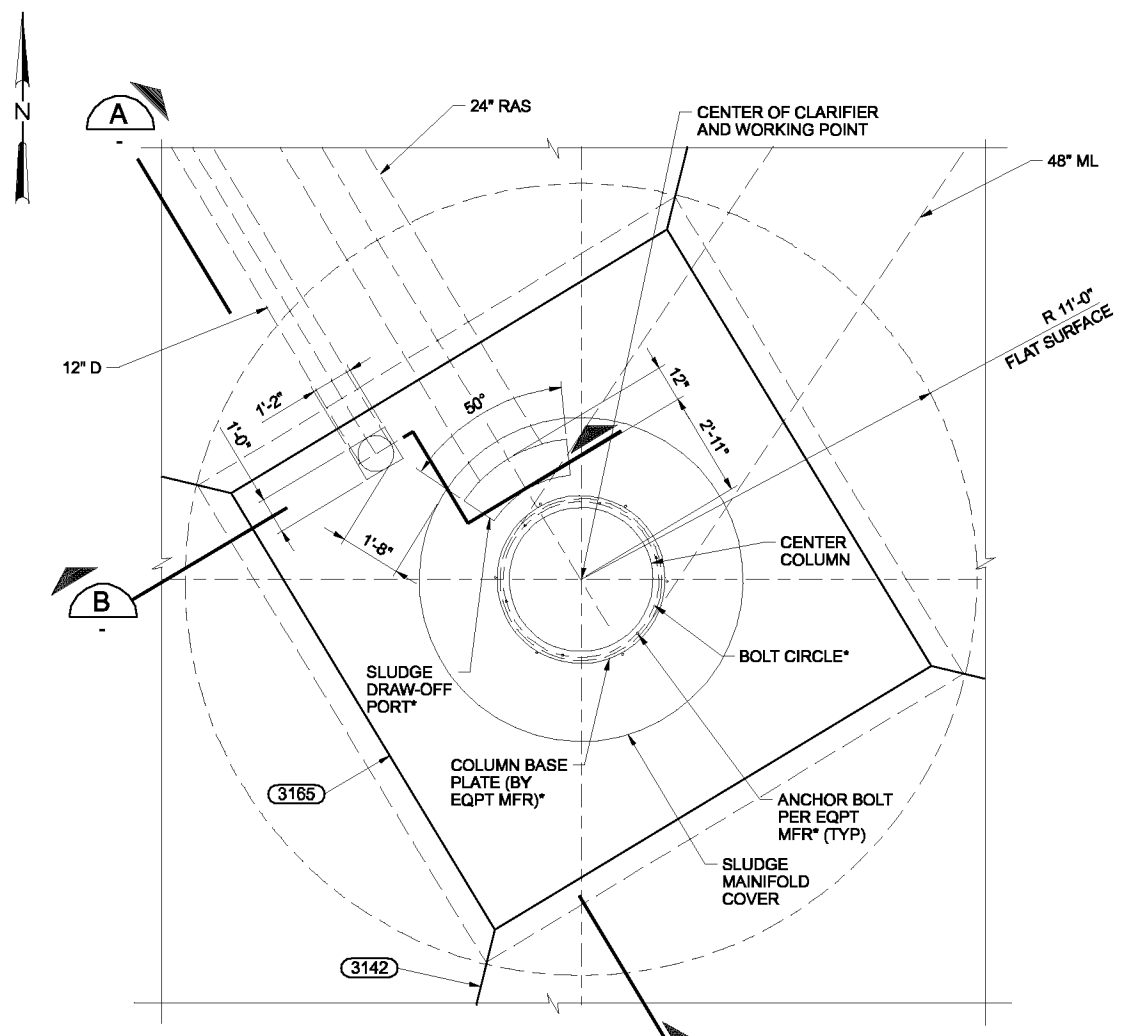


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

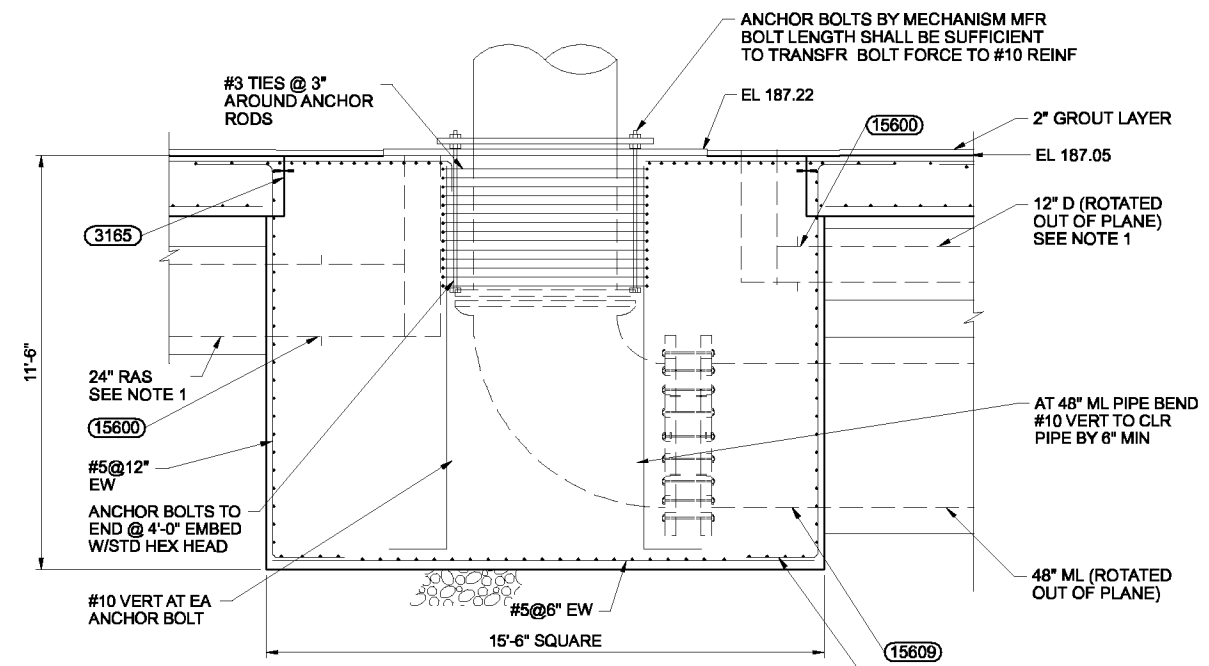
NEW SECONDARY CLARIFIERS
PARTIAL PLANS

| | |
|-------|-------------|
| SHEET | 400 |
| DWG | 45-S-203 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

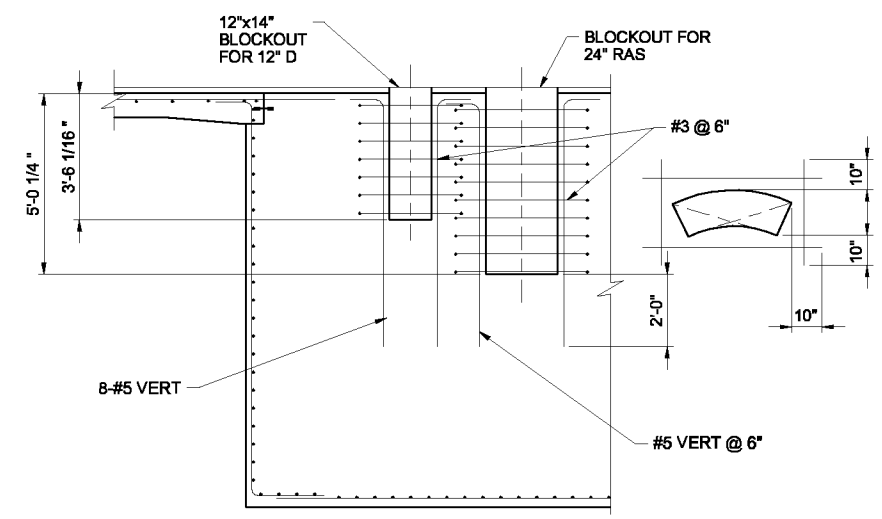
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* COORDINATE SIZING AND LOCATION WITH CLARIFIER SUPPLIER AND APPROVED SHOP DRAWINGS
PARTIAL PLAN H
 3/8"=1'-0" 45-S-131



NOTE:
 1. PIPE ENCASEMENT HORIZ BARS SHALL BE LAP SPLICED W/ SAME SIZE DOWELS EMBEDDED IN CENTER STRUCTURE. EMBED DEPTH = 3'-0".
SECTION A
 3/8"=1'-0"



SECTION B
 3/8"=1'-0"

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| | | | | | | |
|------|-------------|-----|------|----------|----|------|
| DSGN | K A MARTIN | NO. | DATE | REVISION | BY | APVD |
| DR | M J GABEL | | | | | |
| CHK | C A GENTRY | | | | | |
| APVD | R S SHANLEY | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

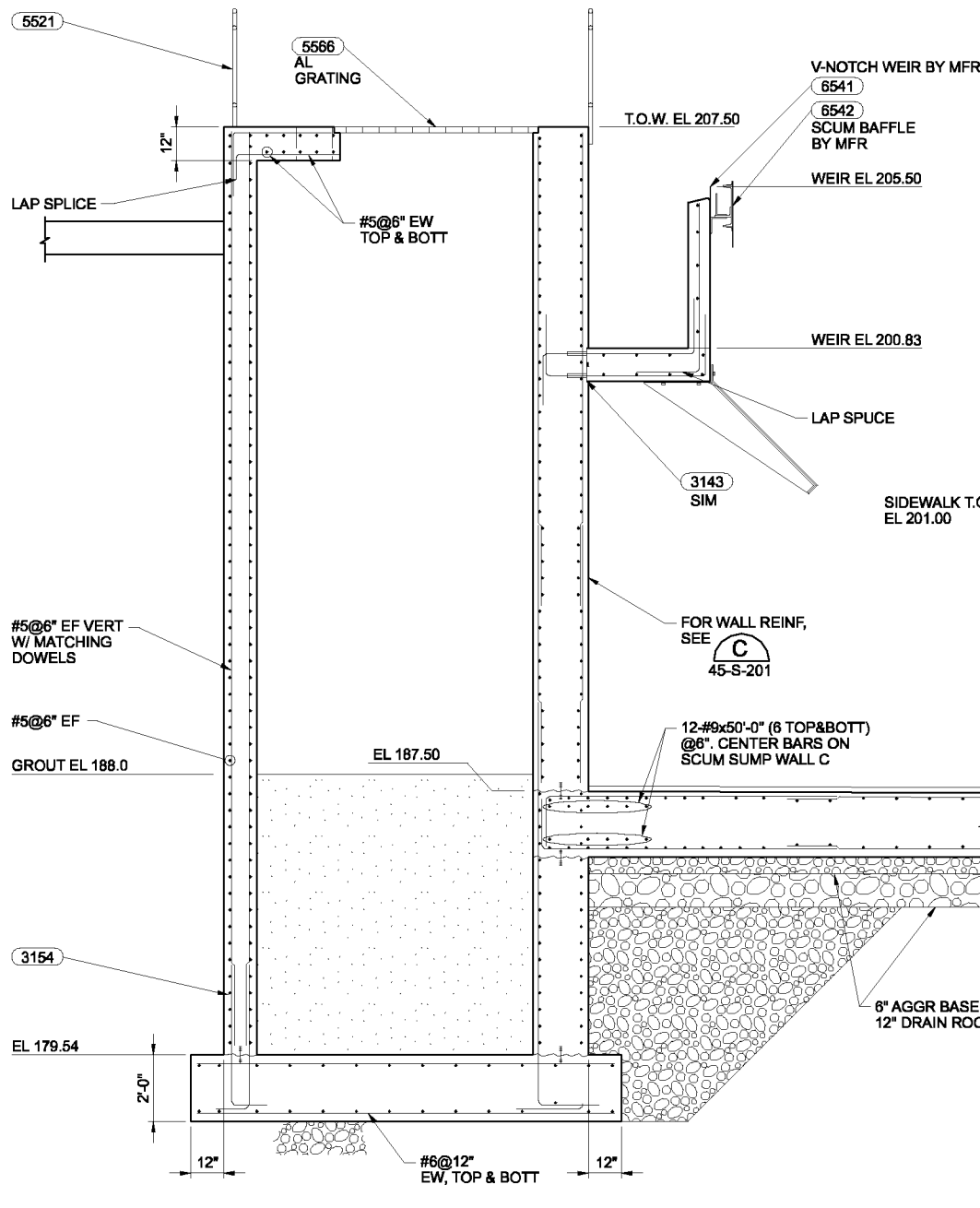
| |
|---|
| VERIFY SCALE |
| BAR IS ONE INCH ON ORIGINAL DRAWING. |
| 0 1" |
| IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |



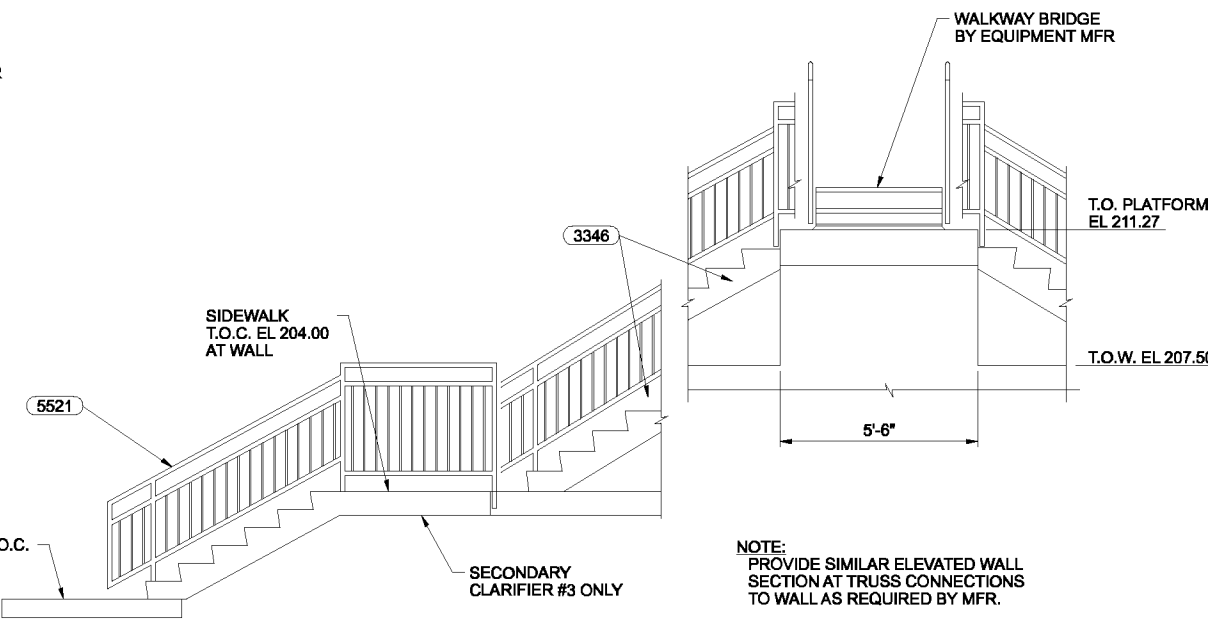
CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

| | | |
|---------------------------|-------|-------------|
| NEW SECONDARY CLARIFIERS | SHEET | 401 |
| PARTIAL PLAN AND SECTIONS | DWG | 45-S-204 |
| | DATE | MAY 19 2006 |
| | PROJ | 326918 |

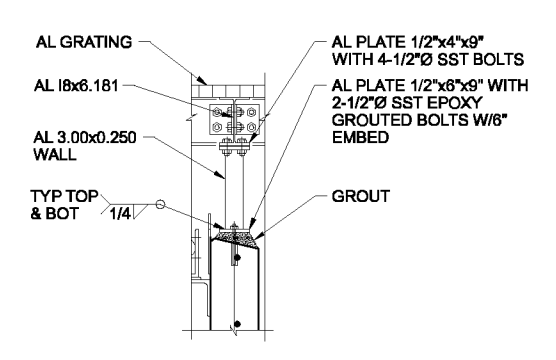
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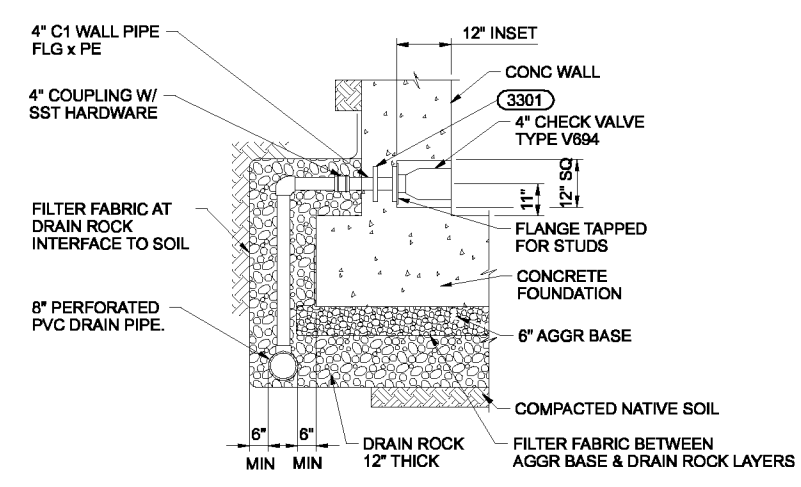
SECTION H
3/8"=1'-0" 45-S-203



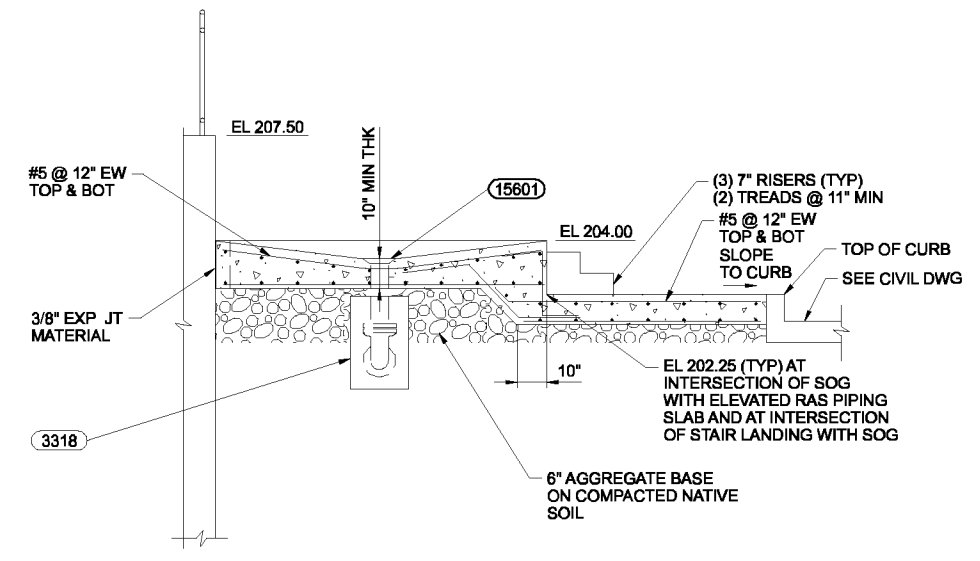
SECTION K
3/8"=1'-0" 45-S-132



DETAIL 1
3/4"=1'-0" 45-S-202



DETAIL 3
3/4"=1'-0" 45-S-201



SECTION J
3/8"=1'-0" 45-S-132

- NOTES:**
- PRESSURE RELIEF VALVE BE INSTALLED AT SPACE AND LOCATIONS INDICATED ON THE DRAWINGS.
 - FLANGE BOLTS SHALL BE SST.

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| | | | | | | | | | | | |
|------|------------|-----|------|--|-----|-----|------|----------|----|------|---|
| DSGN | KA MARTIN | NO. | DATE | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | DLM | RAH | APVD | REVISION | BY | APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | MJ GABEL | | | | | | | | | | |
| CHK | CA GENTRY | | | | | | | | | | |
| APVD | RS SHANLEY | | | | | | | | | | |
| | | | | | | | | | | | |

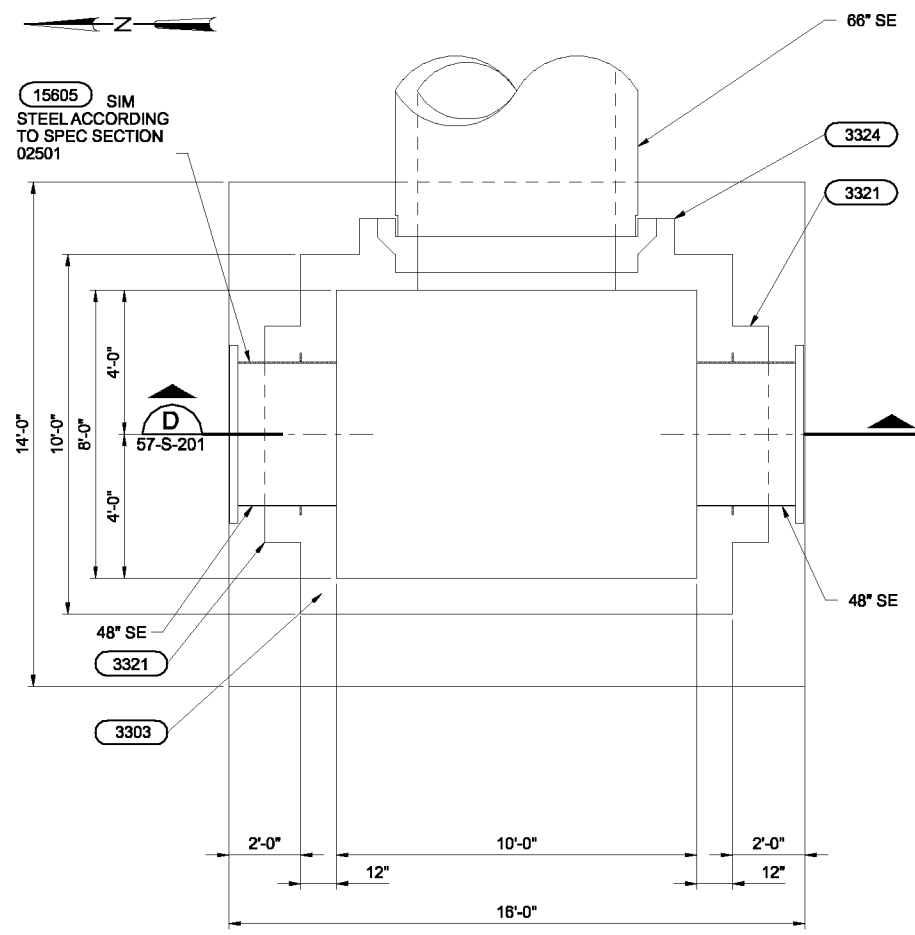


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

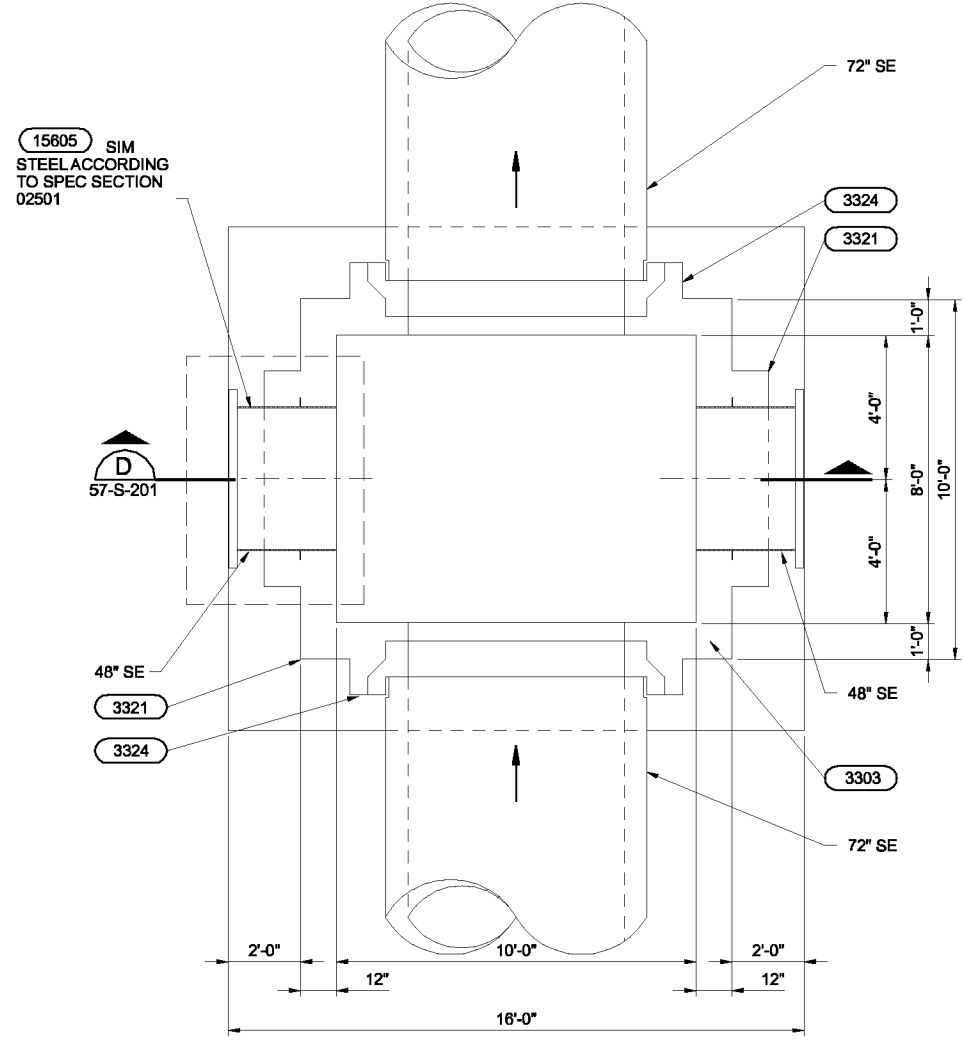
NEW SECONDARY CLARIFIERS
SECTIONS

| | |
|-------|-------------|
| SHEET | 402 |
| DWG | 45-S-205 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

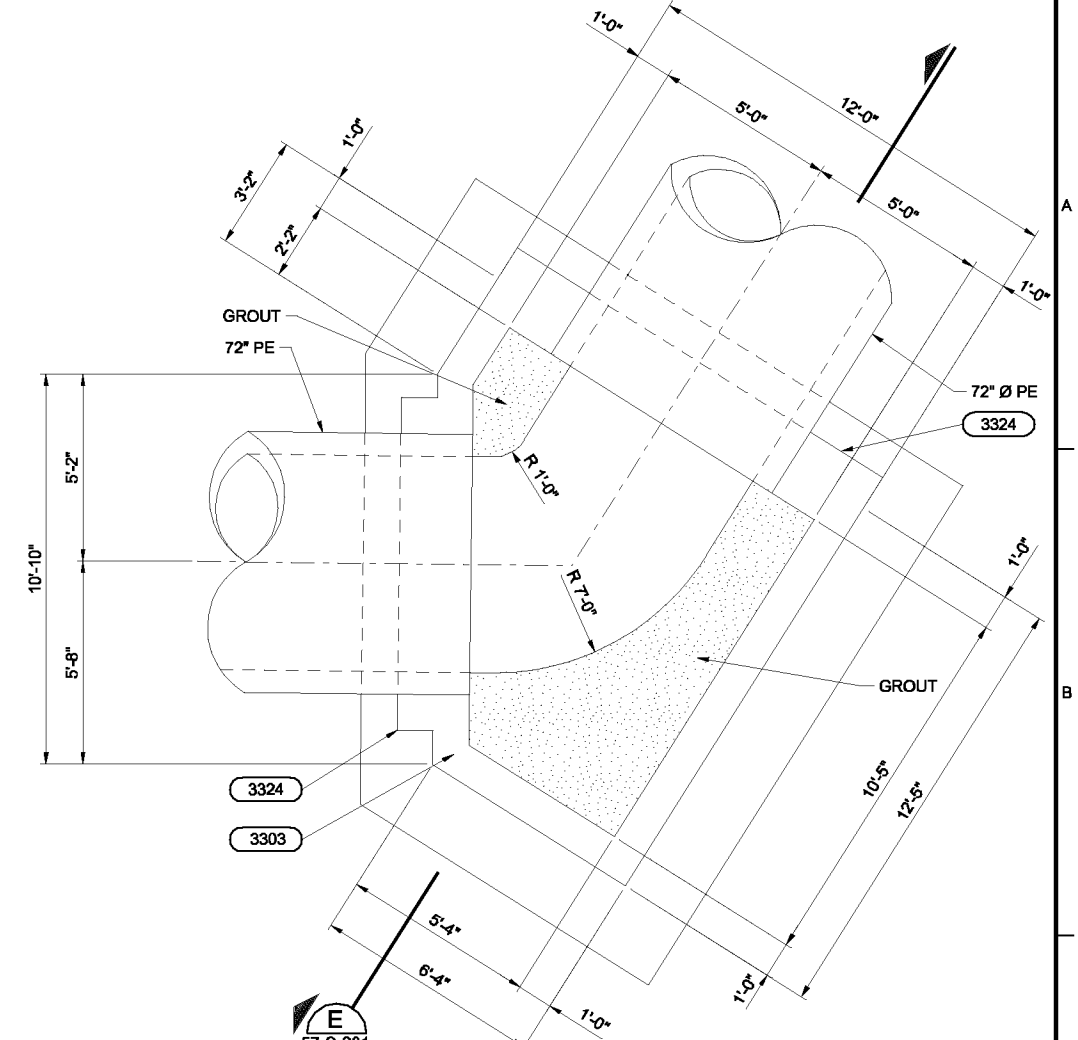
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BOTTOM PLAN - BOX 1 SOUTH SE A
 3/8"=1'-0" 05-CL-103
 05-CY-103



BOTTOM PLAN - BOX 2 NORTH SE B
 3/8"=1'-0" 05-CL-101
 05-CY-101



BOTTOM PLAN - PLANT EFF C
 3/8"=1'-0" 05-CL-102
 05-CY-102

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| | | | | | | |
|------|-------------|-----|------|----------|----|------|
| DSGN | KA MARTIN | NO. | DATE | REVISION | BY | APVD |
| DR | ED LONGORIA | | | | | |
| CHK | CA GENTRY | | | | | |
| APVD | RS SHANLEY | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

| | |
|-----|------|
| BRK | RAH |
| BY | APVD |



CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

EFFLUENT JUNCTION BOXES
 PLANS AND SECTION

| | |
|-------|-------------|
| SHEET | 403 |
| DWG | 57-S-131 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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FIN GRADE EL 201.00 ±

3-#8 VERT W/ MATCHING DOWELS TYP EA SIDE OF ALL PIPES

EL 196.00

IE 189.50

#6@12" EF (TYP)

IE 72" SE 188.00

EL 187.00

#7@12" EW TOP & BOT

#6 @ 12" EW, TOP & BOT

3154

3-#8 HORIZ @ 3" EF, TYP ALL FOUR SIDES OF BOX

3321

#6@12" EF W/ MATCHING DOWELS (TYP)

2-#8 HORIZ @ 3" EF, TYP ALL FOUR SIDES OF BOX

3154

6" AGGR BASE ON COMPACTED NATIVE SOIL

SECTION D

3/8"=1'-0"



57-S-131

FIN GRADE EL 199.50 ±

EL 191.00

3-#8 VERT @ 3" W/ MATCHING DOWELS TYP EA SIDE OF PIPES

#6 @ 6" EF (TYP)

#6 @ 6" EF W/ MATCHING DOWELS (TYP)

#8 HORIZ EF BELOW PIPES, TYP ALL FIVE SIDES OF BOX

IE 182.00

EL 181.00

#7@6" EW TOP & BOT

#6 @ 6" EW, TOP & BOT

3154

3-#8 HORIZ @ 3" EF, TYP ALL FIVE SIDES OF BOX

3324

3154

6" AGGR BASE ON COMPACTED NATIVE SOIL

SECTION E

3/8" = 1'-0"



57-S-131

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| | | | | | | |
|------|------------|-----|------|----------|----|------|
| DSGN | KA MARTIN | NO. | DATE | REVISION | BY | APVD |
| DR | KA MARTIN | | | | | |
| CHK | CA GENTRY | | | | | |
| APVD | RS SHANLEY | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE

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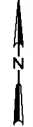
CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENTS PROJECT WWTP-03-01 LINN COUNTY, OREGON

EFFLUENT JUNCTION BOXES

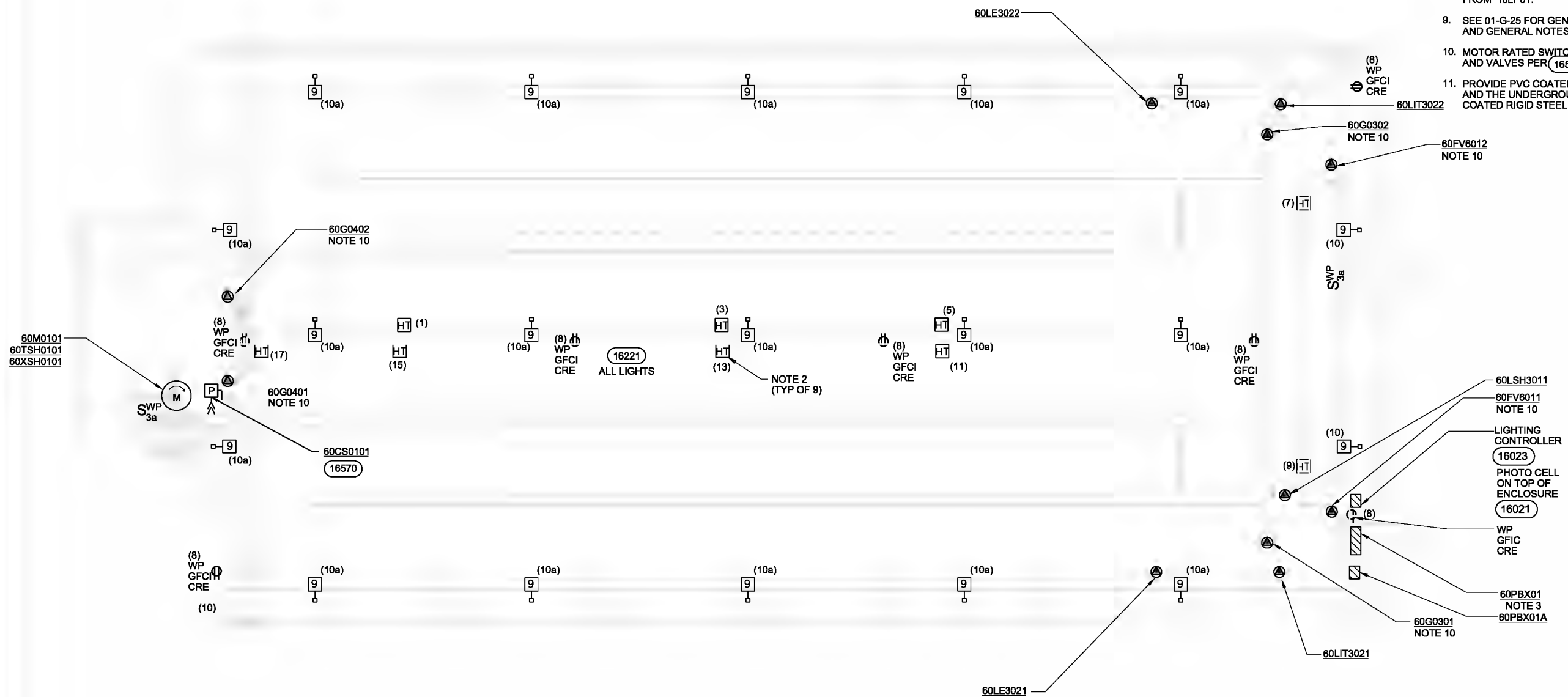
SECTIONS AND DETAILS

| | |
|-------|-------------|
| SHEET | 404 |
| DWG | 57-S-201 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
- ROUTE CIRCUITS TO EQUIPMENT AS INDICATED ON THE RISER DIAGRAMS.
 - PROVIDE HEAT TRACING PER SPECIFICATIONS.
 - SIZE PULL BOXES PER NEC. ALLOW ROOM FOR ALL CONDUITS. WIREWAY MAY ALSO BE USED.
 - ALL OUTLETS ON THIS DRAWING ARE GFCI/WP/CRE.
 - DIGITAL CONTROL CIRCUITS CAN BE COMBINED.
 - ANALOG CONTROL CIRCUITS CAN BE COMBINED.
 - FOR LUMINAIRE SCHEDULE AND NOTES, SEE DWG. 91-E-531.
 - LIGHTS AND RECEPTACLES ON THIS DRAWING ARE POWERED FROM 10LP01.
 - SEE 01-G-25 FOR GENERAL NOTES FOR LIGHTING SYSTEM AND GENERAL NOTES FOR POWER AND SIGNAL SYSTEMS.
 - MOTOR RATED SWITCHES ARE REQUIRED FOR ALL GATES AND VALVES PER (16500)
 - PROVIDE PVC COATED RIGID STEEL CONDUIT BETWEEN THE PULLBOXES AND THE UNDERGROUND HORIZONTAL PVC CONDUIT RUN. PROVIDE PVC COATED RIGID STEEL ELBOWS WHERE THE CONDUITS STUB UP.



PLAN
1/8"=1'-0"

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| | | | | | | | | | |
|--------|------------|-----|------|----------|----|------|--|--|--|
| DESIGN | SAFROBERS | | | | | | | | |
| DR | OS DAVE | | | | | | | | |
| CHK | GLORIOS | | | | | | | | |
| APVD | OS SHANLEY | NO. | DATE | REVISION | BY | APVD | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



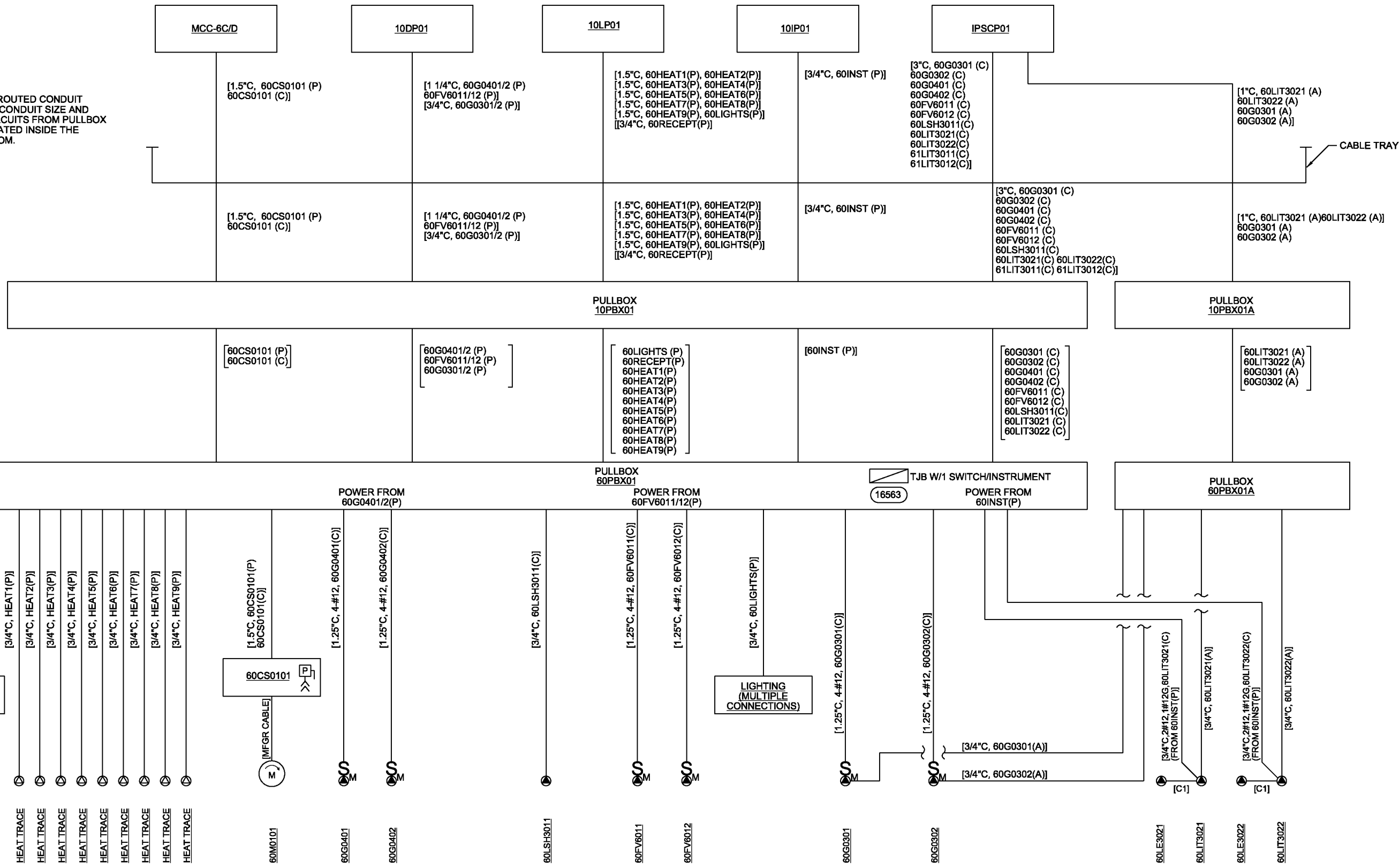
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CHLORINE CONTACT BASINS
PROCESS AND FACILITY PLANS - LOWER

| | |
|-------|----------|
| SHEET | 405 |
| DWG | 60-E-131 |
| DATE | CDD-DATE |
| PROJ | |

NOTES:

1. REFER TO SITE ROUTED CONDUIT SCHEDULE FOR CONDUIT SIZE AND ROUTING OF CIRCUITS FROM PULLBOX TO PANELS LOCATED INSIDE THE ELECTRICAL ROOM.



CHLORINE CONTACT BASIN RISER DIAGRAM

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| | | | | | |
|------|------------|----------|------|----------|----|
| DSGN | BR RODGERS | | | | |
| DR | RB CAVE | | | | |
| CHK | GJ DeBOIS | 01/20/10 | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY |

VERIFY SCALE
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 0 1"
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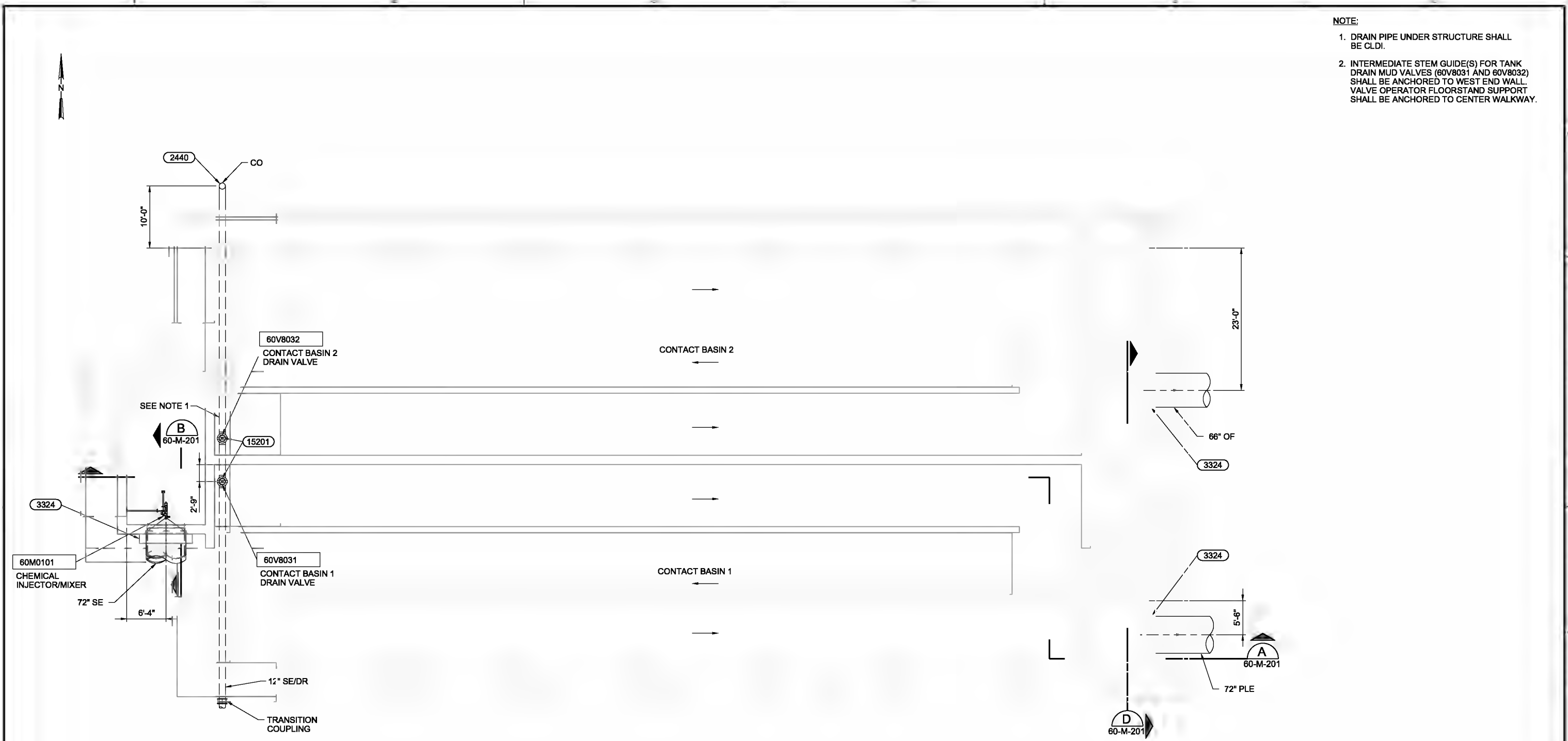
CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

CHLORINE CONTACT BASINS
RISER DIAGRAM

| | |
|-------|-------------|
| SHEET | 406 |
| DWG | 60-E-501 |
| DATE | MAY 19 2006 |
| PROJ | |

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- NOTE:**
1. DRAIN PIPE UNDER STRUCTURE SHALL BE CLDI.
 2. INTERMEDIATE STEM GUIDE(S) FOR TANK DRAIN MUD VALVES (60V8031 AND 60V8032) SHALL BE ANCHORED TO WEST END WALL. VALVE OPERATOR FLOORSTAND SUPPORT SHALL BE ANCHORED TO CENTER WALKWAY.

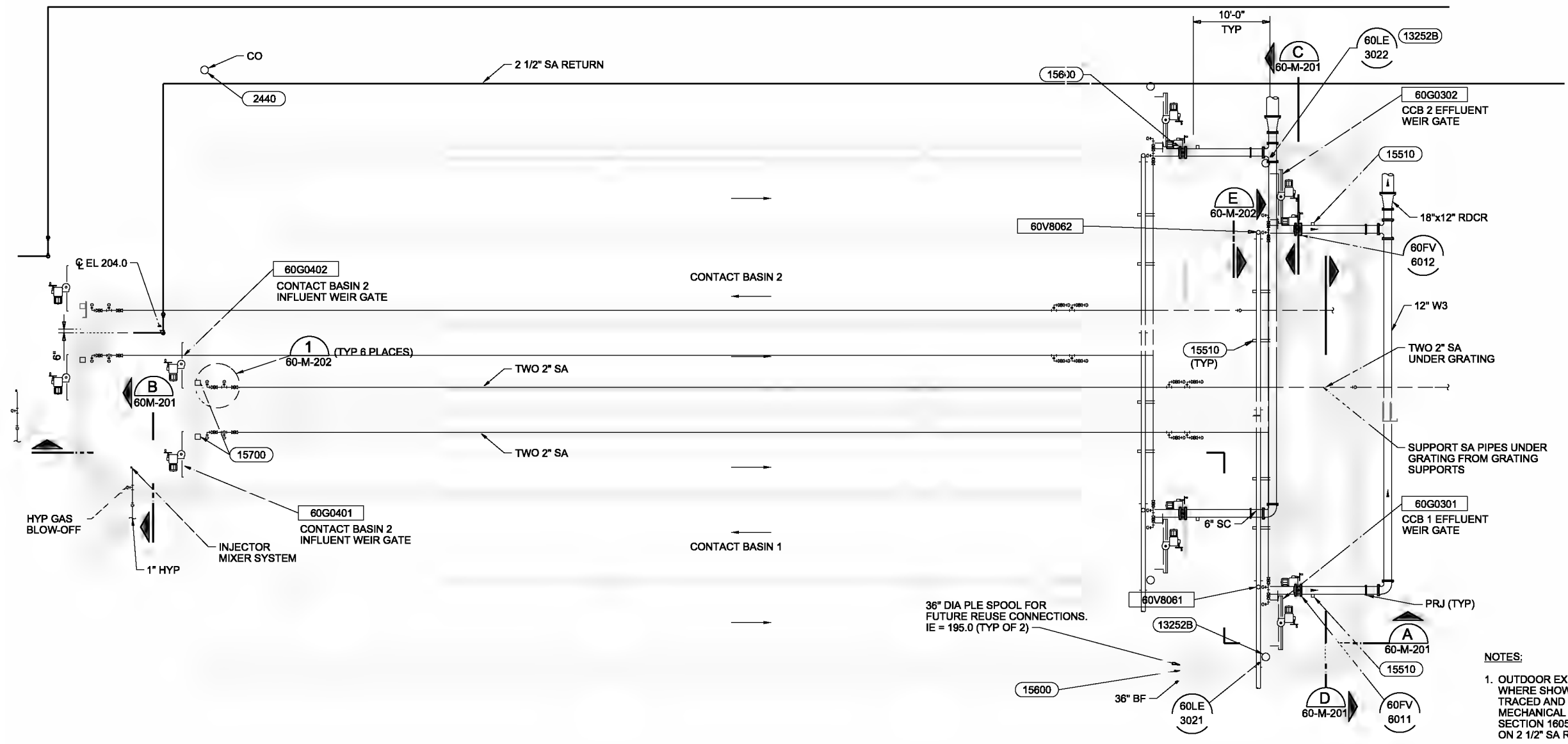
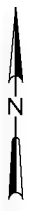


LOWER PLAN
1/8"=1'-0"

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| | | | | | | |
|--|--|---|---|---|--|---|
| DESIGNED BY: B.M. CASEY DRAWN BY: M. SHAWLEY CHECKED BY: M. SHAWLEY APPROVED BY: M. SHAWLEY | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | VERIFIED SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | CH2MHILL carollo engineers | CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENTS PROJECT WWTP-03-01 LINN COUNTY, OREGON | CHLORINE CONTACT BASINS & W3 PUMPING MECHANICAL LOWER PLAN BOTTOM PLAN | SHEET: 407 DWG: 60-M-131 DATE: MAY 16 2006 PROJ: |
|--|--|---|---|---|--|---|

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UPPER PLAN
1/8"=1'-0"

- NOTES:**
1. OUTDOOR EXPOSED LIQUID PIPING 3" AND SMALLER AND WHERE SHOWN ON THE DRAWINGS SHALL BE HEAT TRACED AND INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS, AND IN SECTION 16055, PIPE HEAT TRACING. NO HEAT TRACING ON 2 1/2" SA RETURN LINE.
 2. INTERMEDIATE STEM GUIDE(S) FOR TANK DRAIN MUD VALVES (60V8031 AND 60V8032) SHALL BE ANCHORED TO WEST END WALL. VALVE OPERATOR SUPPORT SHALL BE ANCHORED TO CENTER WALKWAY.
 3. 38" DIA PLE SPOOL FOR FUTURE REUSE CONNECTION SHALL INCLUDE A BLIND FLANGE ON BOTH OF EACH SPOOL.
 4. SECTION A DETAIL F: REDUCE OVERFLOW WALL (LOCATED WITHIN THE EFFLUENT CHANNEL) TOP OF WALL ELEVATION TO 201.75. SLOPE TOP OF WALL TO DRAIN TO OVERFLOW CHANNEL. MINIMUM 3" ACROSS, 18" WIDE WALL WHILE MAINTAINING REQUIRED COVER FOR REBAR. INSTALL 6" TALL FRP WEIR PLATE CONTINUOUS ALONG OVERFLOW WALL, APPROXIMATELY 57 TOTAL LINEAR FEET. TOP OF WEIR TO BE 202.0

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY BRIAN M. CASEY, STATE OF OREGON, P.E. NO. 73,447.

| | | | |
|---|------------------|---|-----------|
| DESIGNER BRIAN M. CASEY | DATE 01/20/06 | SCALE 1/8"=1'-0" | REVISIONS |
| CHECKED EDUARD GONZALEZ | DATE | SCALE | |
| APPROVED BRIAN M. CASEY | DATE | SCALE | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | CRO AGC | BY APVD |
| | | VERIFIED SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | |

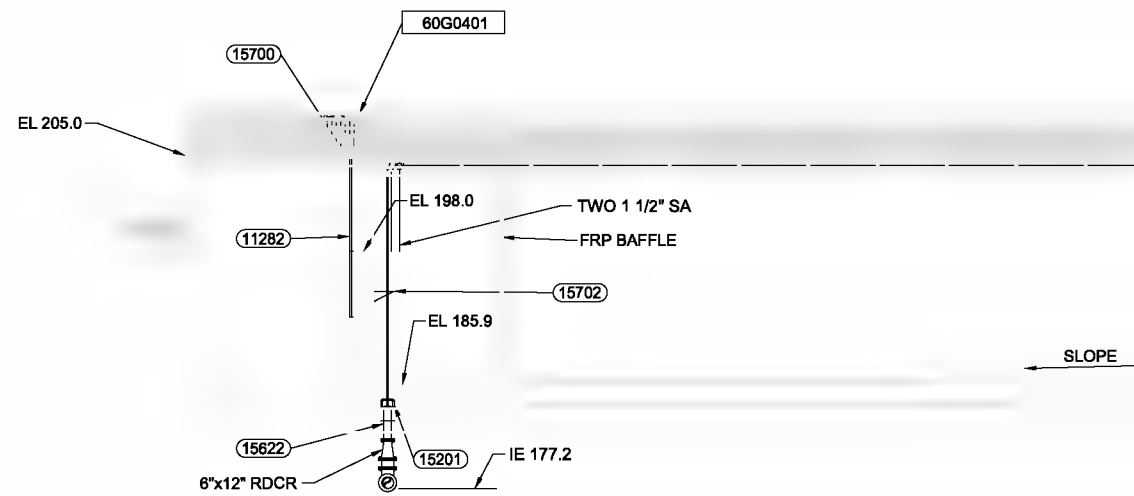


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

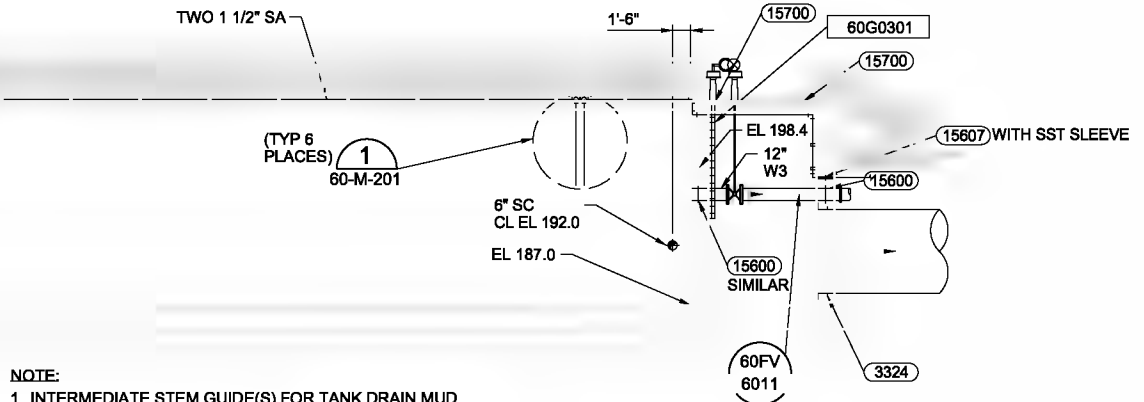
CHLORINE CONTACT BASINS & W3 PUMPING
MECHANICAL UPPER PLAN

| | |
|-------|-------------|
| SHEET | 408 |
| DWG | 60-M-141 |
| DATE | MAY 16 2006 |
| PROJ | 326918 |

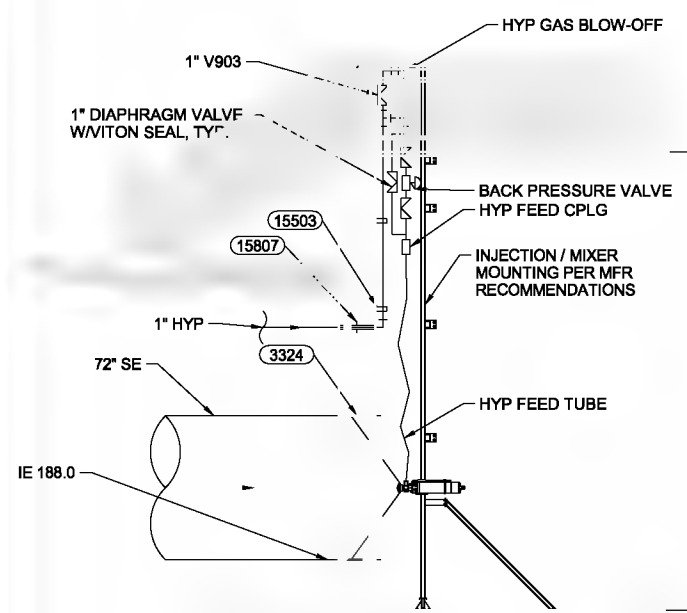
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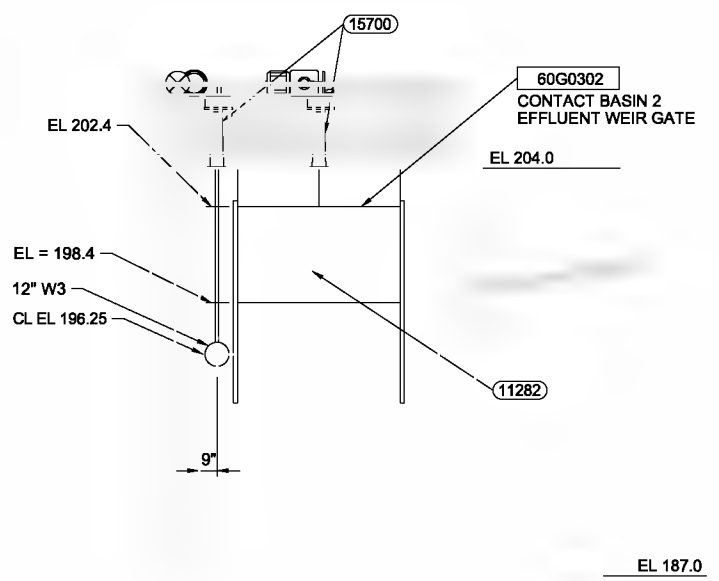
SECTION A
1/8"=1'-0"
60-M-131
60-M-141



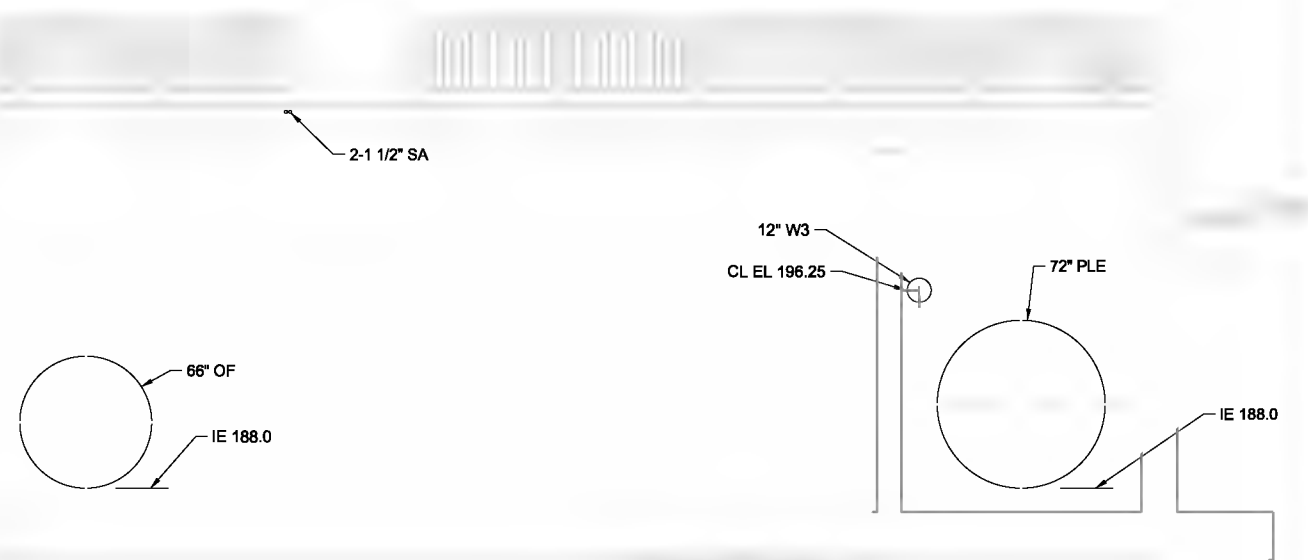
NOTE:
1. INTERMEDIATE STEM GUIDE(S) FOR TANK DRAIN MUD VALVES (60V8031 AND 60V8032) SHALL BE ANCHORED TO WEST END WALL. VALVE OPERATOR FLOOR STAND SUPPORT SHALL BE ANCHORED TO CENTER WALKWAY.



SECTION B
1/4"=1'-0"
60-M-131
60-M-141



SECTION C
1/4"=1'-0"
60-M-131
60-M-141



SECTION D
1/4"=1'-0"
60-M-131
60-M-141

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| DESIGN | DATE | REVISION | BY | APPROVED |
|-----------------|----------|----------|----|----------|
| DR: B. CASEY | | | | |
| CHK: E. LONIGRO | | | | |
| APR: T. THORPE | 01/20/06 | | | |
| APR: G. SHAWLEY | | | | |

VERIFY SCALE
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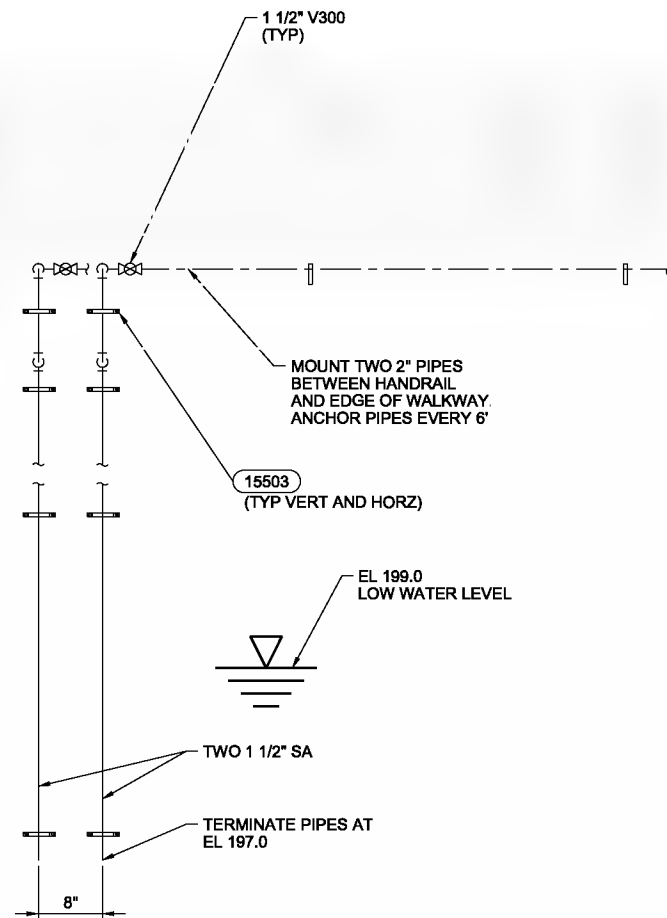


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CHLORINE CONTACT BASINS
SECTIONS

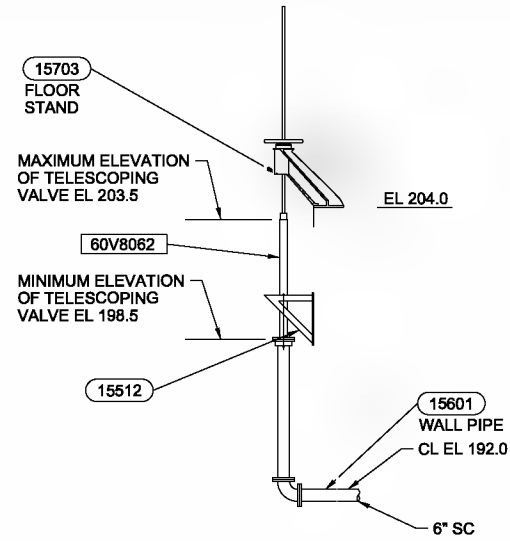
| | |
|-------|-------------|
| SHEET | 409 |
| DWG | 60-M-201 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:
1. DETAIL TYP OF SIX LOCATIONS.
 2. LAYOUT DIFFERS SLIGHTLY FOR VARIOUS LOCATIONS. COORDINATE W / ENGINEER.

SAMPLE LINE TERMINATION 1
 1"=1'-0" 60-M-141
 60-M-201



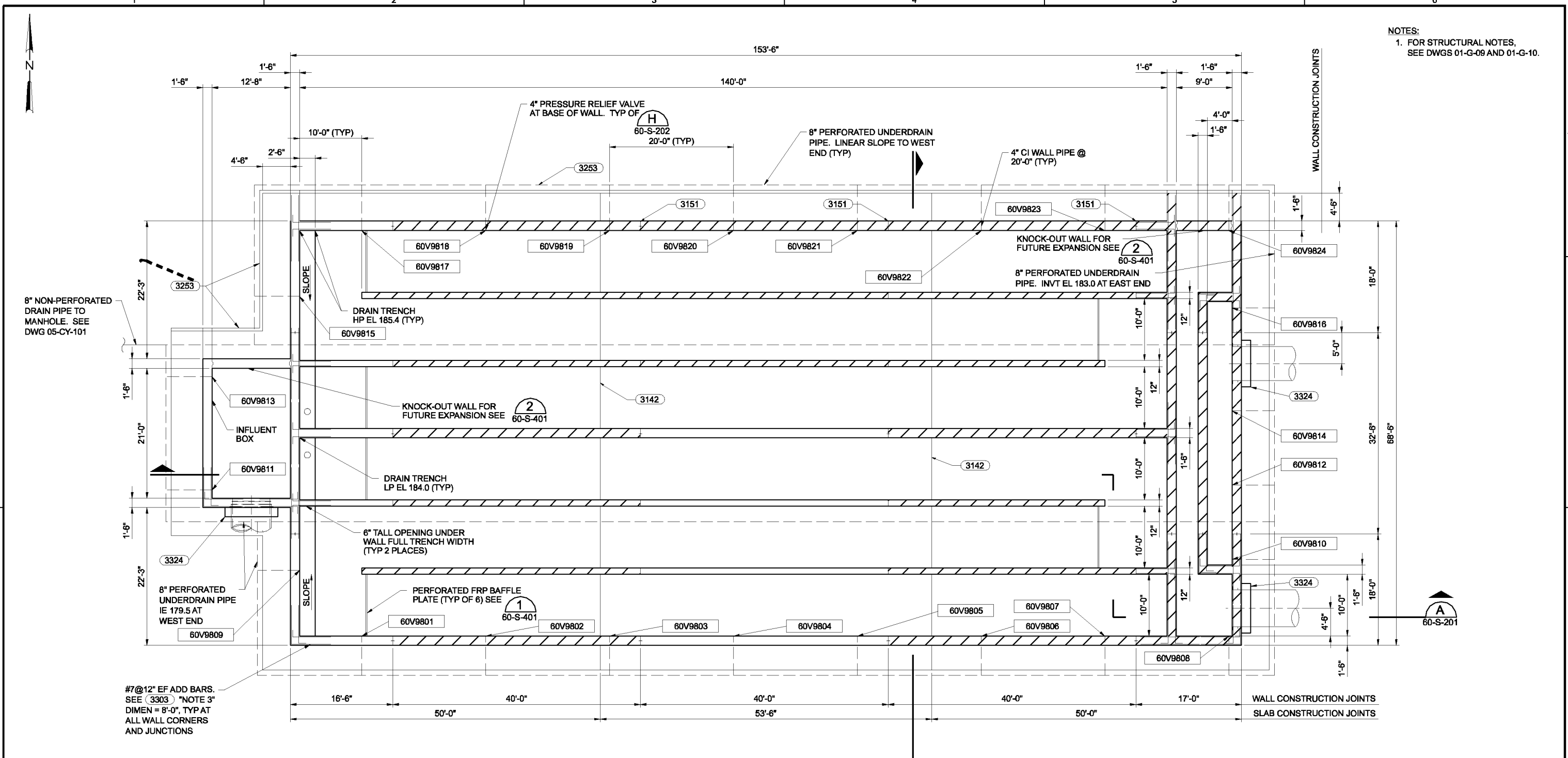
SECTION E
 1/4"=1'-0" 60-M-141

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| | | | | | | | |
|---|--|-----|----|------|--|---|---|
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | CRO | BY | DATE | CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENT PROJECT WWTP-03-01 LINN COUNTY, OREGON | CHLORINE CONTACT BASINS SECTION AND DETAIL | SHEET 410 DWG 60-M-202 DATE MAY 16 2006 PROJ |
|---|--|-----|----|------|--|---|---|



REUSE OF DOCUMENTS: CH2M HILL



NOTES:
 1. FOR STRUCTURAL NOTES, SEE DWGS 01-G-09 AND 01-G-10.

LOWER PLAN
 1/8"=1'-0"

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY: KIPP A. MARTIN, STATE OF OREGON, P.E. NO. 16,276.

| | | | | | | | | |
|------|------------|-----|------|----------|-----|-----|----|------|
| DSGN | KA MARTIN | NO. | DATE | REVISION | CRO | AGC | BY | APVD |
| DR | MJ GABEL | | | | | | | |
| CHK | CA GENTRY | | | | | | | |
| APVD | RS SHANLEY | | | | | | | |
| | | | | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1'
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

CHLORINE CONTACT BASINS
 LOWER PLAN

| | |
|-------|-------------|
| SHEET | 411 |
| DWG | 60-S-131 |
| DATE | MAY 19 2006 |
| PROJ | |

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NOTES:

1. FOR STRUCTURAL NOTES, SEE DRAWINGS 01-G-09 AND 01-G-10.
2. JOINTS IN WALLS AND WALKWAY SHALL BE OF SAME TYPE AND IN SAME LOCATION AS SHOWN ON DRAWING 60-S-131.
3. ALL GRATING SUPPORTED ON CONCRETE WALLS SHALL USE TYPE GS-1 SUPPORTS. SEE (5566).
4. ISOLATE STEEL DAVIT CRANE BASE FROM ALUM GRATING W/1/16" SHEET OF NEOPRENE. USE STAINLESS STEEL BOLTS

1/4" BAR FOR GRATING

EXTEND CS8x5.8 8" BEYOND OPENING EACH SIDE W/3/4" ANCHORS, 6" CLEAR EDGE OF OPENING AND 7" ENCLOSED

HANDRAIL
PROVIDE NEW TWO BOLT BASE

AL SC8x5.8
5087 SIM SINGLE ANGLE CONNECTION

NOTE:
CONFIRM DIMENSIONS W/FIELD LOCATION OF HANDRAIL

PERFORATED FRP BAFFLE PLATE (TYP OF 6) SEE 1 60-S-401

2-AL CS8x5.789. SPACE AS REQ'D TO SUPPORT VALVE OPERATOR

AL CS8x5.789

TOP OF WALL EL 205.00

AL CS8x4.147

60-S-401

AL CS8x4.147

DAVIT CRANE BASE SUPPORTS GRATING AND GRATING SUPPORT BEAM IF NOT REQ'D TO SUPPORT GATE OPERATORS THEY SHOULD BE PLACED AS CLOSE AS POSSIBLE TO THE GATE FRAMES

3' WIDE SECTION OF REMOVABLE GRATING

EQ RISERS = 5'-0"
8T @ 11" = 7'-4"

6" CONC SLAB W/ #5@12" EW

TOP OF WALL 204.00

EQ R = 4'-0"
6T @ 11" = 5'-6"

8" SLAB SLAB W/ #5@12" EW

110x8.646 (TYP)

2-AL CS8x5.789. SPACE AS REQ'D TO SUPPORT VALVE OPERATOR

AL CS8x5.789

UPPER PLAN

1/8"=1'-0"

| | | | | | | | | | |
|------|------------|-----|------|----------|----|------|-----|-----|---|
| DSGN | KA MARTIN | NO. | DATE | REVISION | BY | APVD | CRO | AGC | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | MJ GABEL | | | | | | | | |
| CHK | CA GENTRY | | | | | | | | |
| APVD | RS SHANLEY | | | | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT



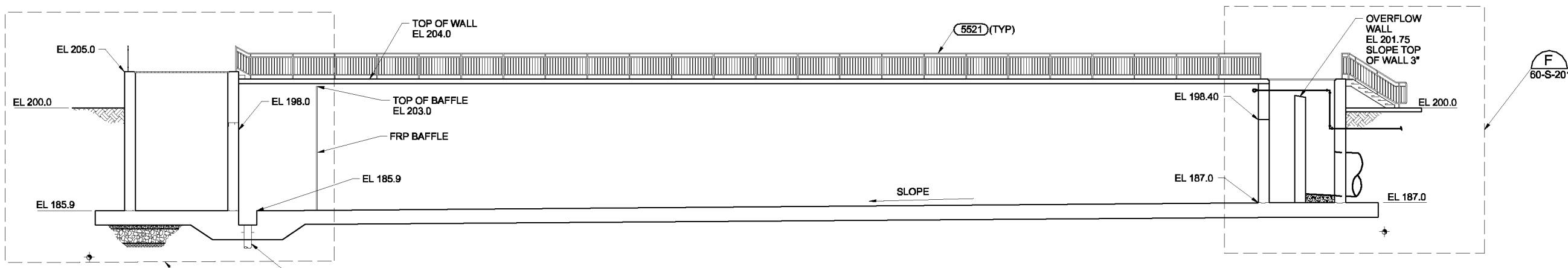
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CHLORINE CONTACT BASINS

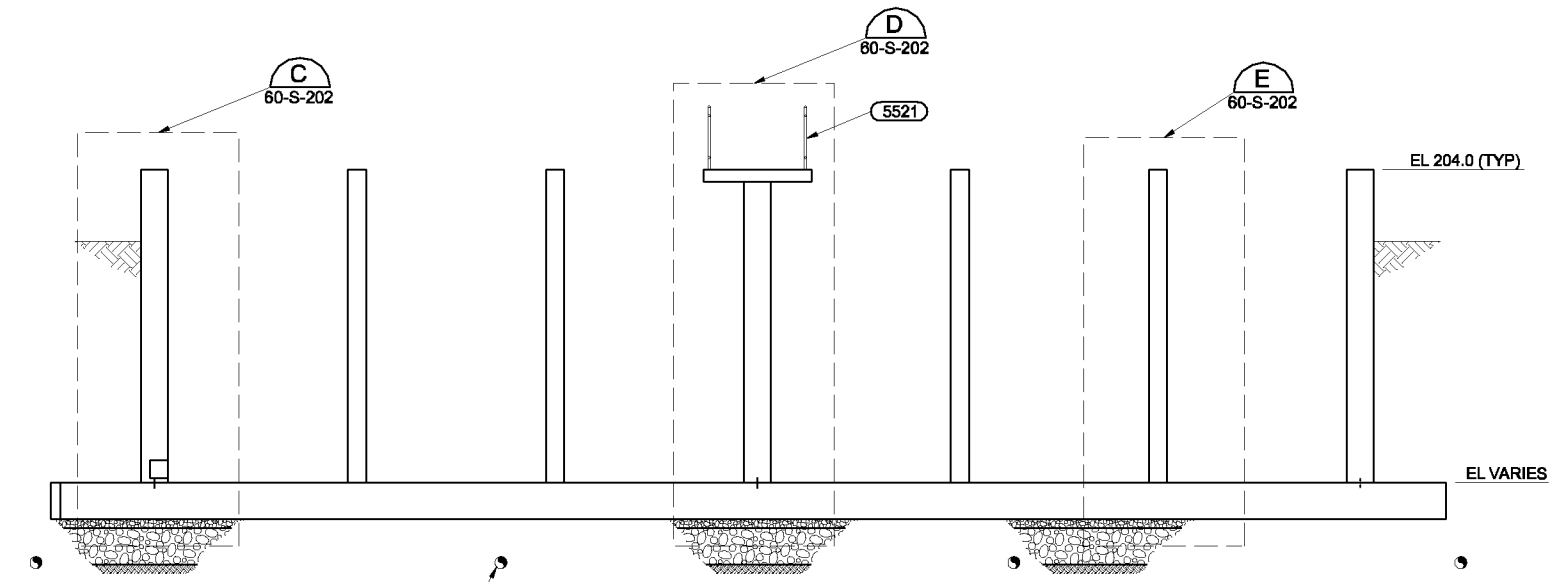
UPPER PLAN

| | |
|-------|-------------|
| SHEET | 412 |
| DWG | 60-S-141 |
| DATE | MAY 19 2006 |
| PROJ | |

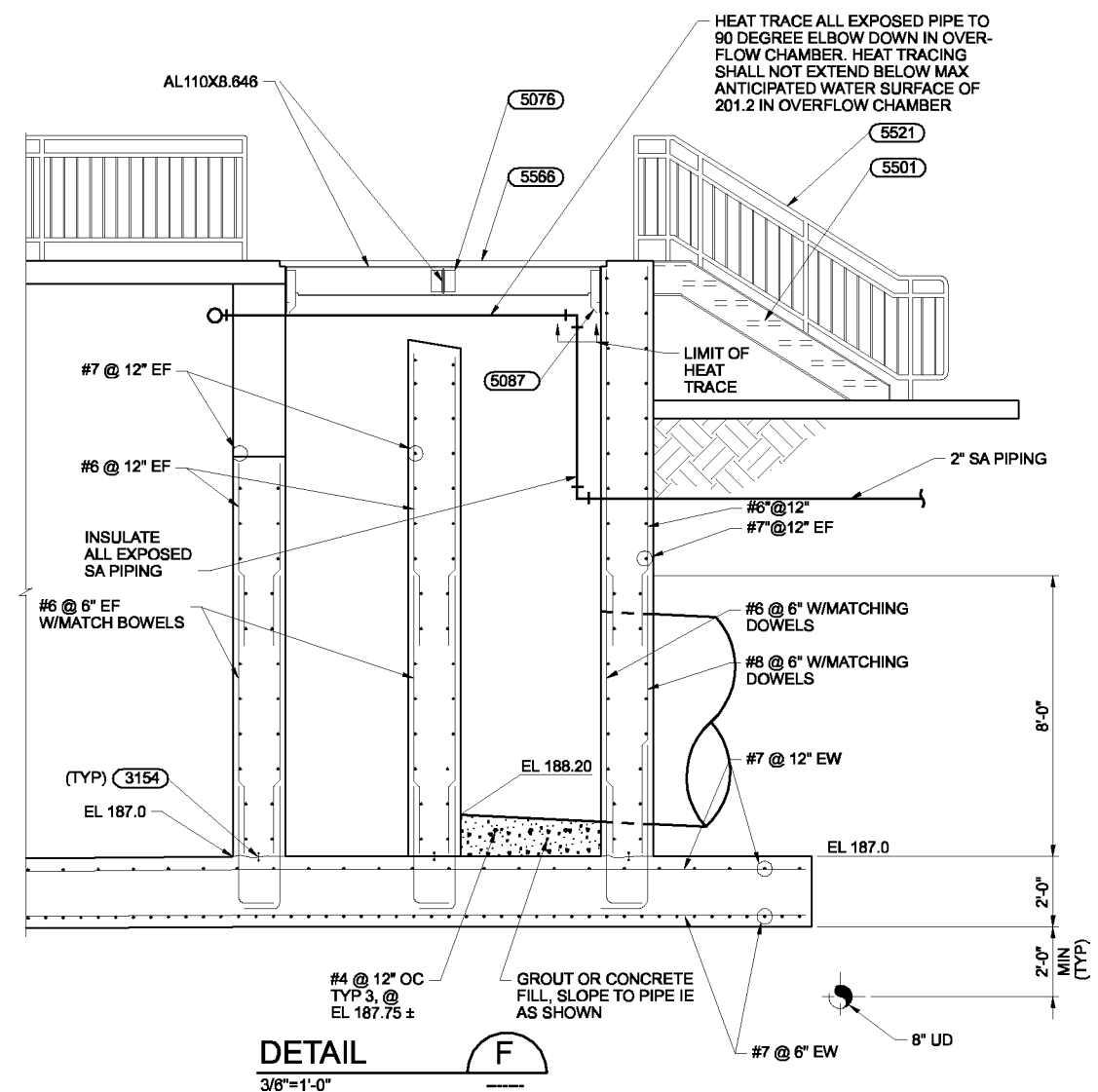
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SECTION A
1/8"=1'-0"
60-S-131
60-S-141



SECTION B
3/16"=1'-0"
60-S-131
60-S-141



DETAIL F
3/8"=1'-0"

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| | | | | | | |
|------|------------|-----|------|----------|----|------|
| DSGN | KA MARTIN | NO. | DATE | REVISION | BY | APVD |
| DR | MJ GABEL | | | | | |
| CHK | CA GENTRY | | | | | |
| APVD | RS SHANLEY | | | | | |
| | | | | | | |

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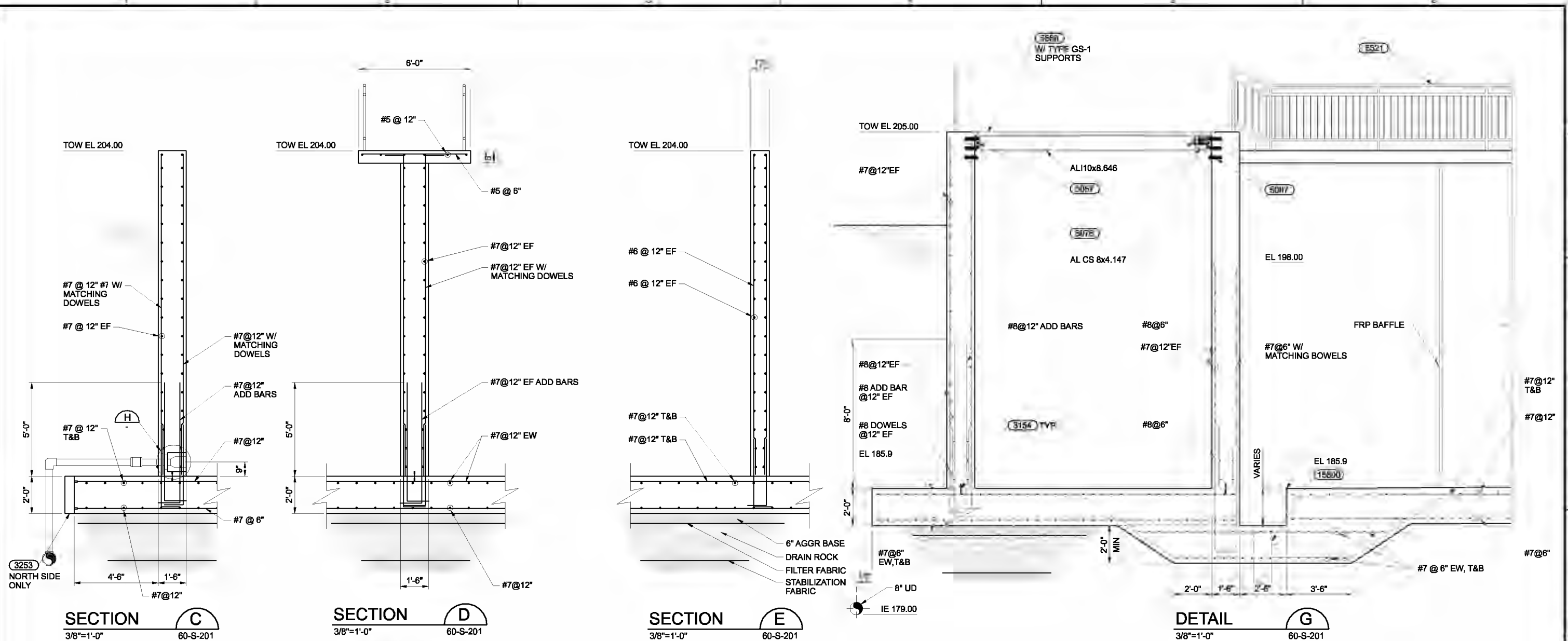


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CHLORINE CONTACT BASINS
SECTIONS

| | |
|-------|-------------|
| SHEET | 413 |
| DWG | 60-S-201 |
| DATE | MAY 19 2006 |
| PROJ | |

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SECTION C
3/8"=1'-0" 60-S-201

SECTION D
3/8"=1'-0" 60-S-201

SECTION E
3/8"=1'-0" 60-S-201

DETAIL G
3/8"=1'-0" 60-S-201

4" CI WALL PIPE FLG x PE
4" COUPLING W/ SST HARDWARE

STABILIZATION FABRIC AT DRAIN ROCK INTERFACE TO SOIL

8" PERF HDPE FOR BURIED APP. TRANSITION TO CLDI FOR EMBEDDED SECTION

NOTES:
1. PRESSURE RELIEF VALVE BE INSTALLED AT 20'-0" IN EXTERIOR WALLS.
2. FLANGE BOLTS SHALL BE SST.

8" INSET
CONC WALL
4" CHECK VALVE TYPE V694
FLANGE TAPPED FOR STUDS
CONCRETE FOUNDATION
6" AGGR BASE
UNDISTURBED NATIVE SOIL
FILTER FABRIC BETWEEN ABC & DRAIN ROCK LAYERS

MIN MIN DRAIN ROCK 12" THICK

PRESSURE RELIEF VALVE H
NTS 60-S-131

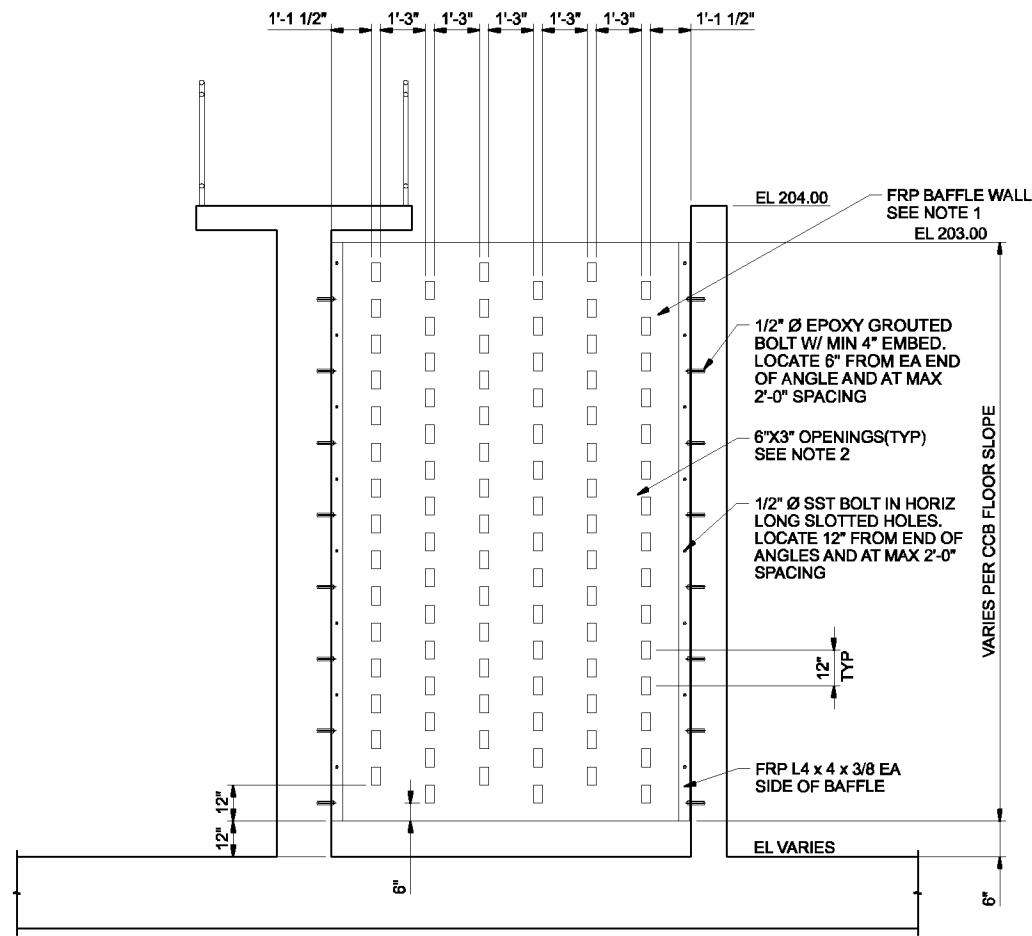
| | | | | | | | | | |
|------|-------------|-----|------|----------|----|------|-----|-----|---|
| DSGN | KA MARTIN | NO. | DATE | REVISION | BY | APVD | CRO | AGC | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | ED LONGORIA | | | | | | | | |
| CHK | CA GENTRY | | | | | | | | |
| APVD | RS SHANLEY | | | | | | | | |
| | | | | | | | | | |



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

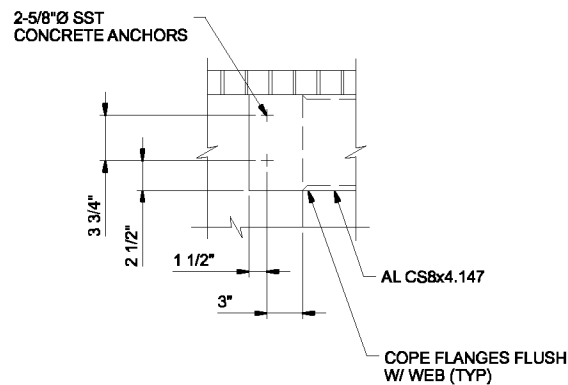
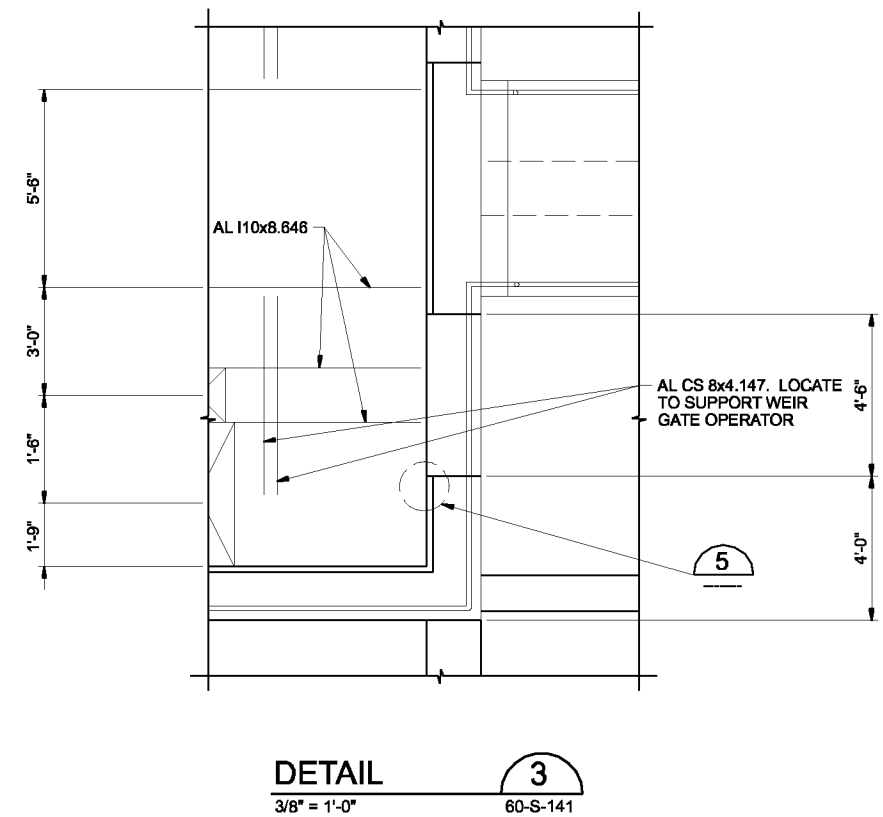
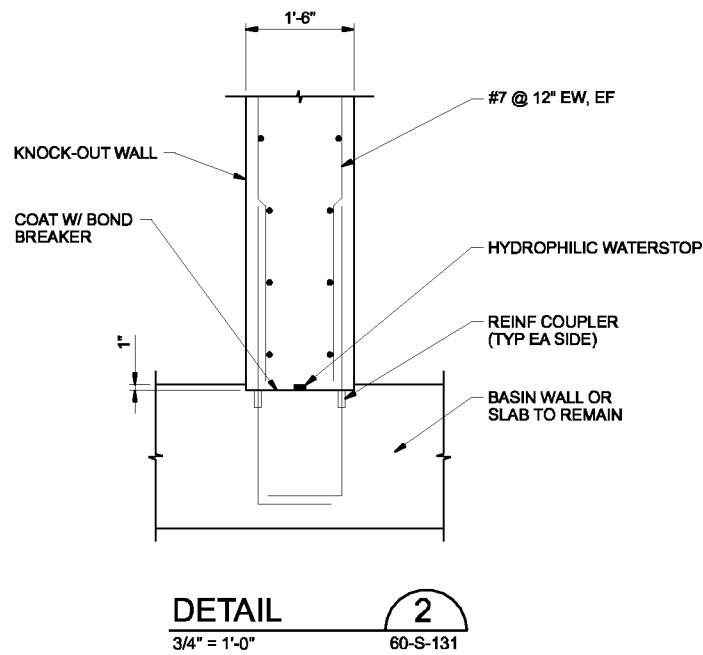
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|-------------------------|-------|-------------|
| CHLORINE CONTACT BASINS | SHEET | 414 |
| SECTIONS | DWG | 60-S-202 |
| | DATE | MAY 16 2006 |
| | PROJ | |

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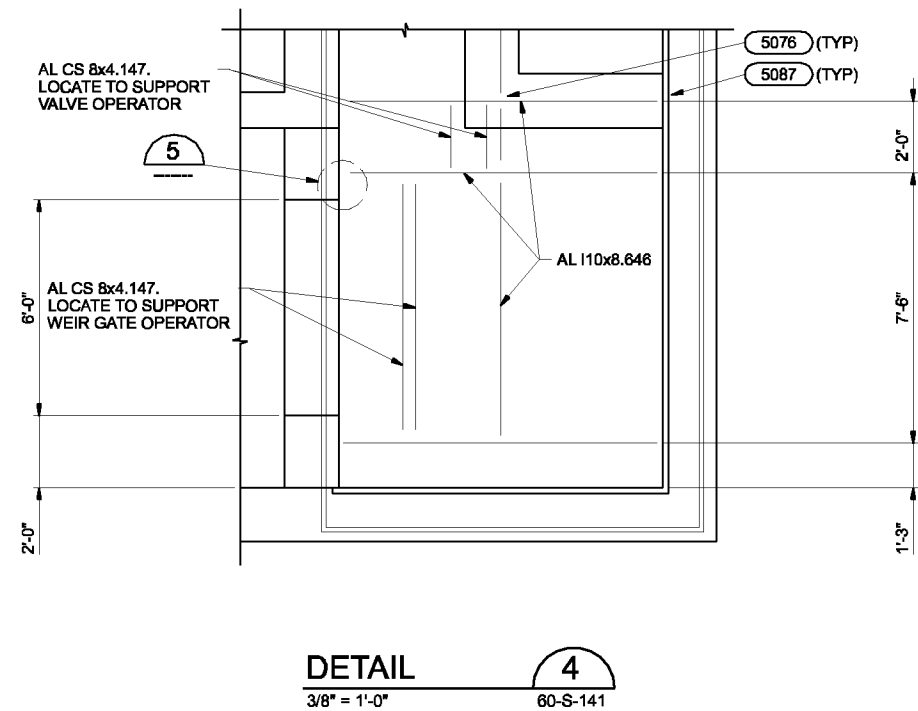


- NOTES:
1. BAFFLES SHALL BE DESIGNED BY FRP MANUFACTURER TO WITHSTAND 30 PSF OVER FULL AREA OF BAFFLE. MAXIMUM DEFLECTION SHALL NOT EXCEED 1/4".
 2. ALL HOLES IN BAFFLE AND SUPPORT ANGLES SHALL BE SEALED WITH RESIN.
 3. 6 BAFFLES REQUIRED.

DETAIL 1
3/8" = 1'-0"
60-S-131
60-S-141



DETAIL 5
1 1/2" = 1'-0"



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| | | | | | | | | | |
|------|------------|----------|------|----------|----|------|--|--|--|
| DSGN | KA MARTIN | | | | | | | | |
| DR | KA MARTIN | | | | | | | | |
| CHK | CA GENTRY | 01/20/10 | | | | | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY | APVD | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

| | |
|---|----|
| VERIFY SCALE | |
| BAR IS ONE INCH ON ORIGINAL DRAWING. | |
| 0 | 1" |
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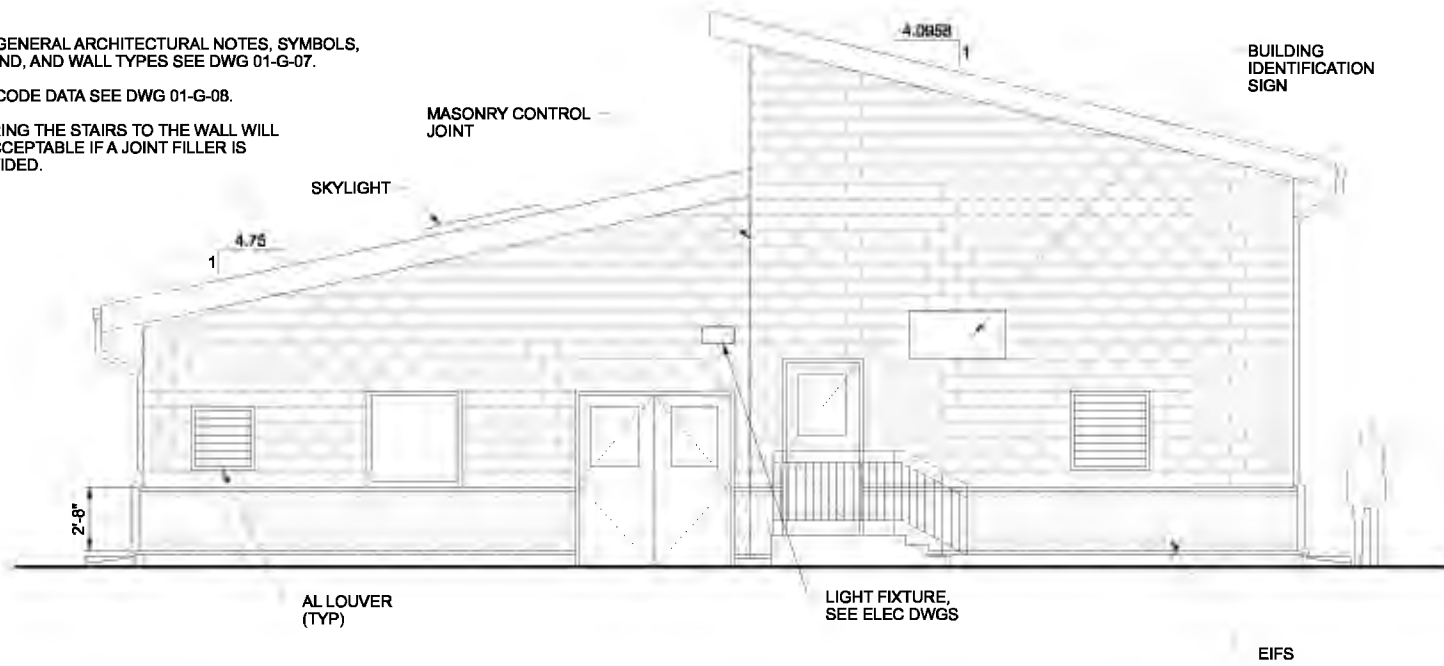
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CHLORINE CONTACT BASINS
DETAILS

| | |
|-------|-------------|
| SHEET | 415 |
| DWG | 60-S-401 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

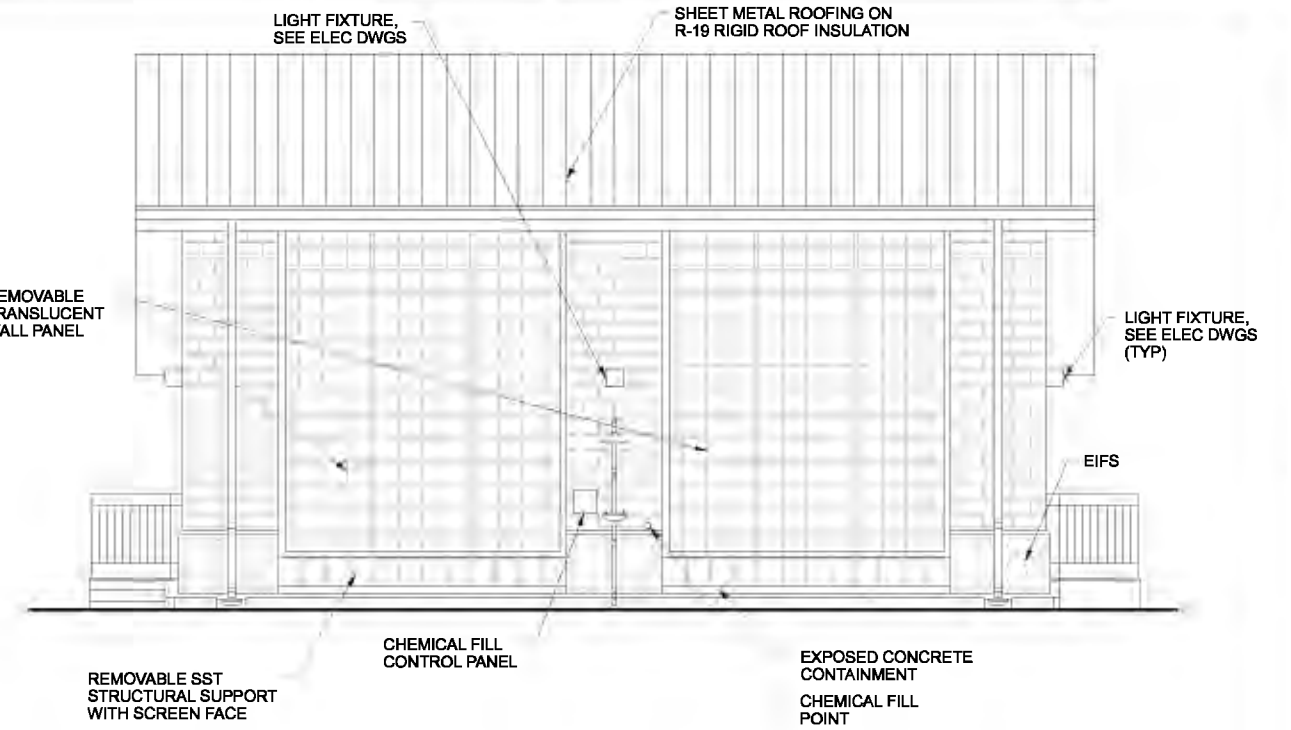
NOTES:

1. FOR GENERAL ARCHITECTURAL NOTES, SYMBOLS, LEGEND, AND WALL TYPES SEE DWG 01-G-07.
2. FOR CODE DATA SEE DWG 01-G-08.
3. POURING THE STAIRS TO THE WALL WILL BE ACCEPTABLE IF A JOINT FILLER IS PROVIDED.



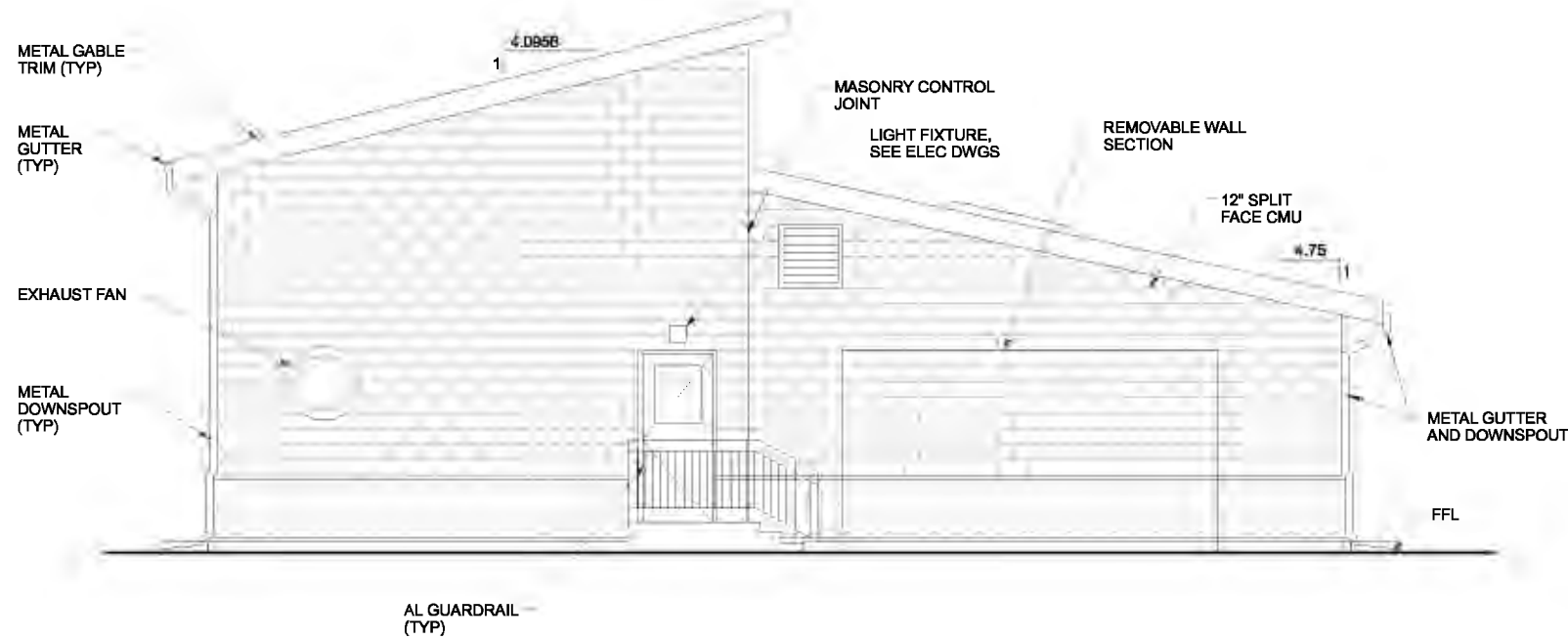
SOUTH ELEVATION

1/4"=1'-0"



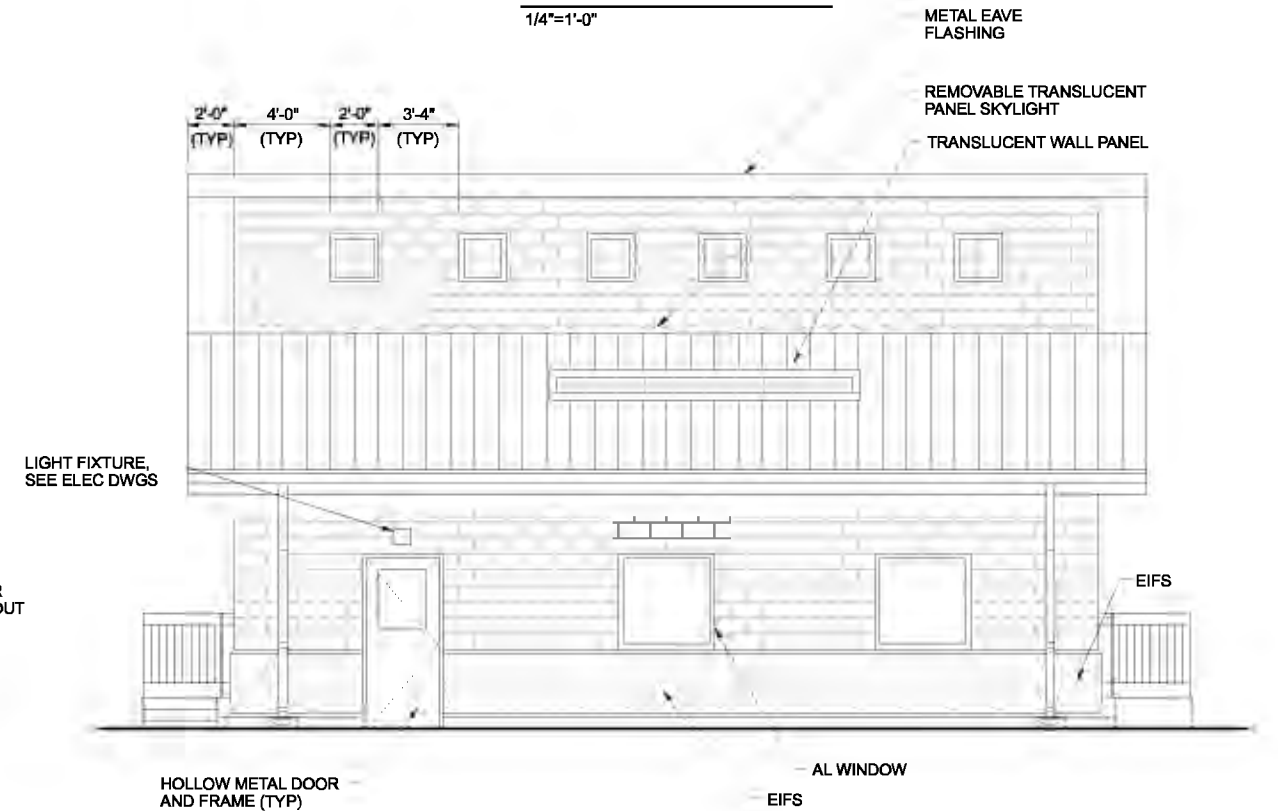
EAST ELEVATION

1/4"=1'-0"



NORTH ELEVATION

1/4"=1'-0"



WEST ELEVATION

1/4"=1'-0"

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

| | | | | | | | | | | | | | | | | | | | | |
|------|------------|----------|------|----------|----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| DSGN | KA MARTIN | | | | | | | | | | | | | | | | | | | |
| DR | MJ GABEL | | | | | | | | | | | | | | | | | | | |
| CHK | CA GENTRY | 01/20/10 | | | | | | | | | | | | | | | | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY | APVD | | | | | | | | | | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
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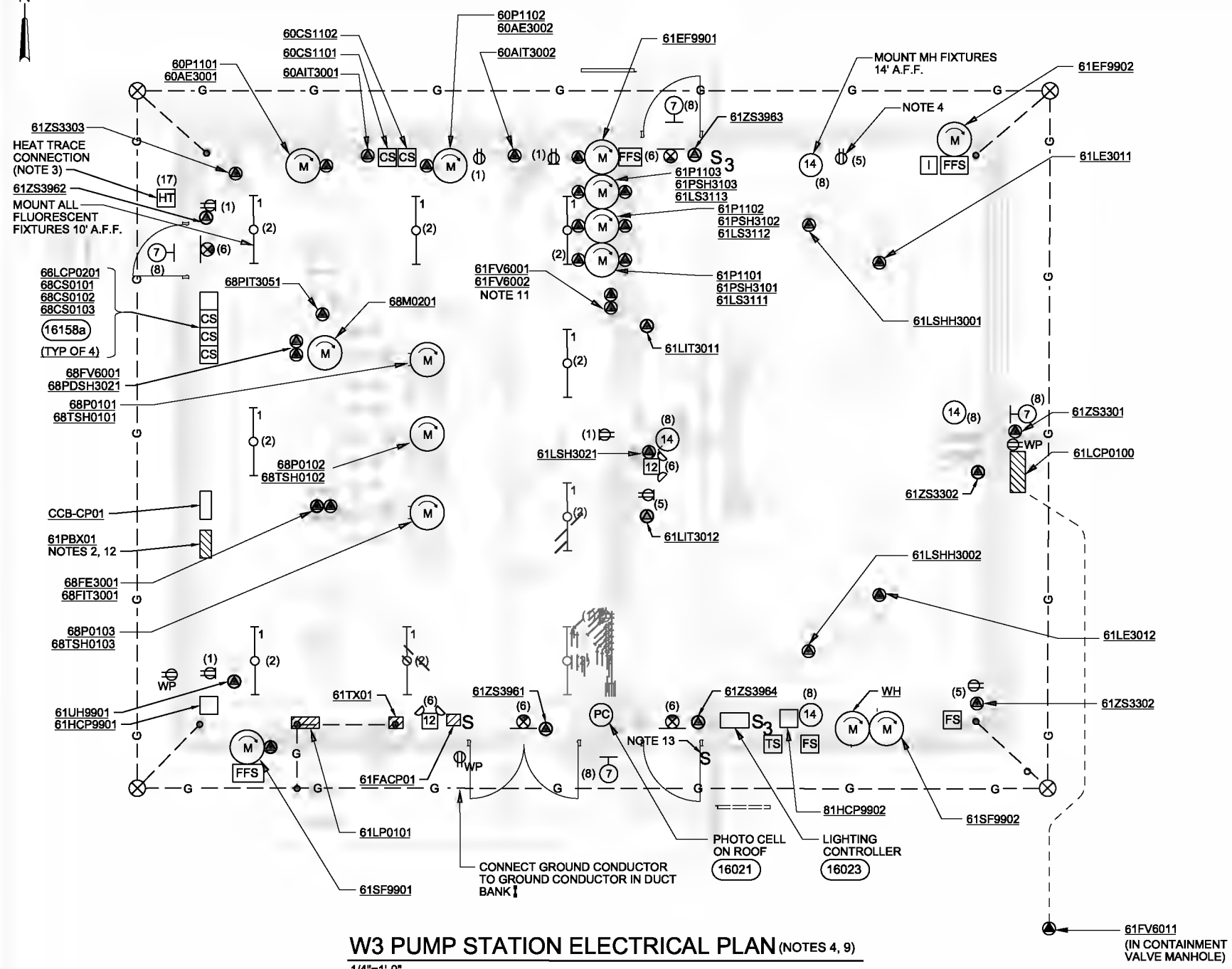
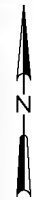


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

DISINFECTION BUILDING AND W3 PUMP STATION
EXTERIOR ELEVATIONS

| | |
|-------|-------------|
| SHEET | 416 |
| DWG | 61-A-301 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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W3 PUMP STATION ELECTRICAL PLAN (NOTES 4, 9)
1/4"=1'-0"

- NOTES:
- ROUTE CIRCUITS AS INDICATED ON THE RISER DIAGRAMS. CIRCUITS MAYBE COMBINED IF NEC POWER DERATINGS ARE PROPERLY APPLIED ON THIS DRAWING ONLY.
 - SIZE PULL BOXES PER NEC. ALLOW ROOM FOR ALL CONDUITS. WIREWAY MAY ALSO BE USED.
 - PROVIDE HEAT TRACING PER SPECIFICATIONS.
 - ALL OUTLETS ON THIS DRAWING ARE GFCI/WP/CRE.
 - DIGITAL CONTROL CIRCUITS CAN BE COMBINED ON THIS DRAWING ONLY.
 - ANALOG CONTROL CIRCUITS CAN BE COMBINED ON THIS DRAWING ONLY.
 - FOR LUMINAIRE SCHEDULE AND NOTES, SEE DWG 91-E-531.
 - LIGHTS AND RECEPTACLES ON THIS DRAWING ARE POWERED FROM 61LP01.
 - SEE 01-G-25 FOR GENERAL NOTES FOR LIGHTING SYSTEM AND GENERAL NOTES FOR POWER AND SIGNAL SYSTEMS.
 - THIS AREA IS CORROSIVE AT ELEVATIONS:
- W3 PUMP ROOM - BELOW 8'
- SODIUM HYPOCHLORITE TANKS - BELOW 12'
 - MOTOR RATED SWITCHES ARE REQUIRED FOR ALL GATES AND VALVES PER 16500
 - PROVIDE PVC COATED RIGID STEEL CONDUIT BETWEEN THE PULLBOXES AND THE UNDERGROUND HORIZONTAL PVC CONDUIT RUN. PROVIDE PVC COATED RIGID STEEL ELBOWS WHERE THE CONDUITS STUB UP.
 - VENTILATION SYSTEM EMERGENCY SHUTOFF SWITCH,

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| | | | | | |
|------|------------|----------|------|----------|----|
| DSGN | DR RODGERS | | | | |
| DR | RE GAVE | | | | |
| CHK | CLD BOUR | 01/20/10 | | | |
| APVD | RS SHAWLEY | NO. | DATE | REVISION | BY |

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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

DISINFECTION BUILDING AND W3 PUMP STATION
PLAN

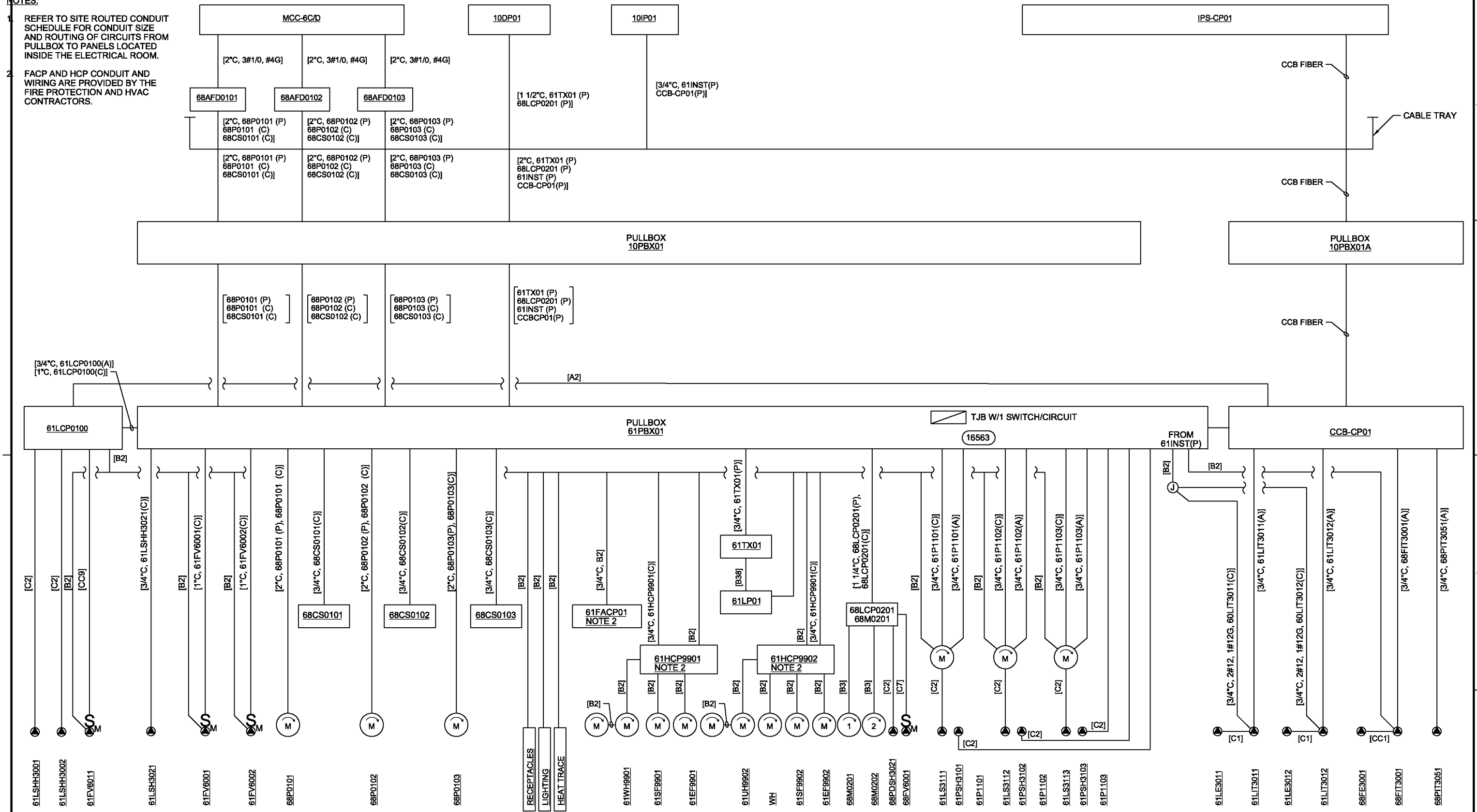
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|-------|-------------|
| SHEET | 417 |
| DWG | 61-E-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOTES:

1 REFER TO SITE ROUTED CONDUIT SCHEDULE FOR CONDUIT SIZE AND ROUTING OF CIRCUITS FROM PULLBOX TO PANELS LOCATED INSIDE THE ELECTRICAL ROOM.

2 FACP AND HCP CONDUIT AND WIRING ARE PROVIDED BY THE FIRE PROTECTION AND HVAC CONTRACTORS.



MULTIPLE CONNECTIONS FOR RECEPTACLES, LIGHTING, AND HEAT TRACE
SODIUM HYPOCHLORITE AND W3 PUMPS RISER DIAGRAM

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| | | | | | |
|------|------------|----------|------|----------|----|
| DSGN | BR RODGERS | | | | |
| DR | RB CAVE | | | | |
| CHK | GJ DeBOIS | 01/20/10 | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY |

| | | |
|---|-----|------|
| GRW | KLM | APVD |
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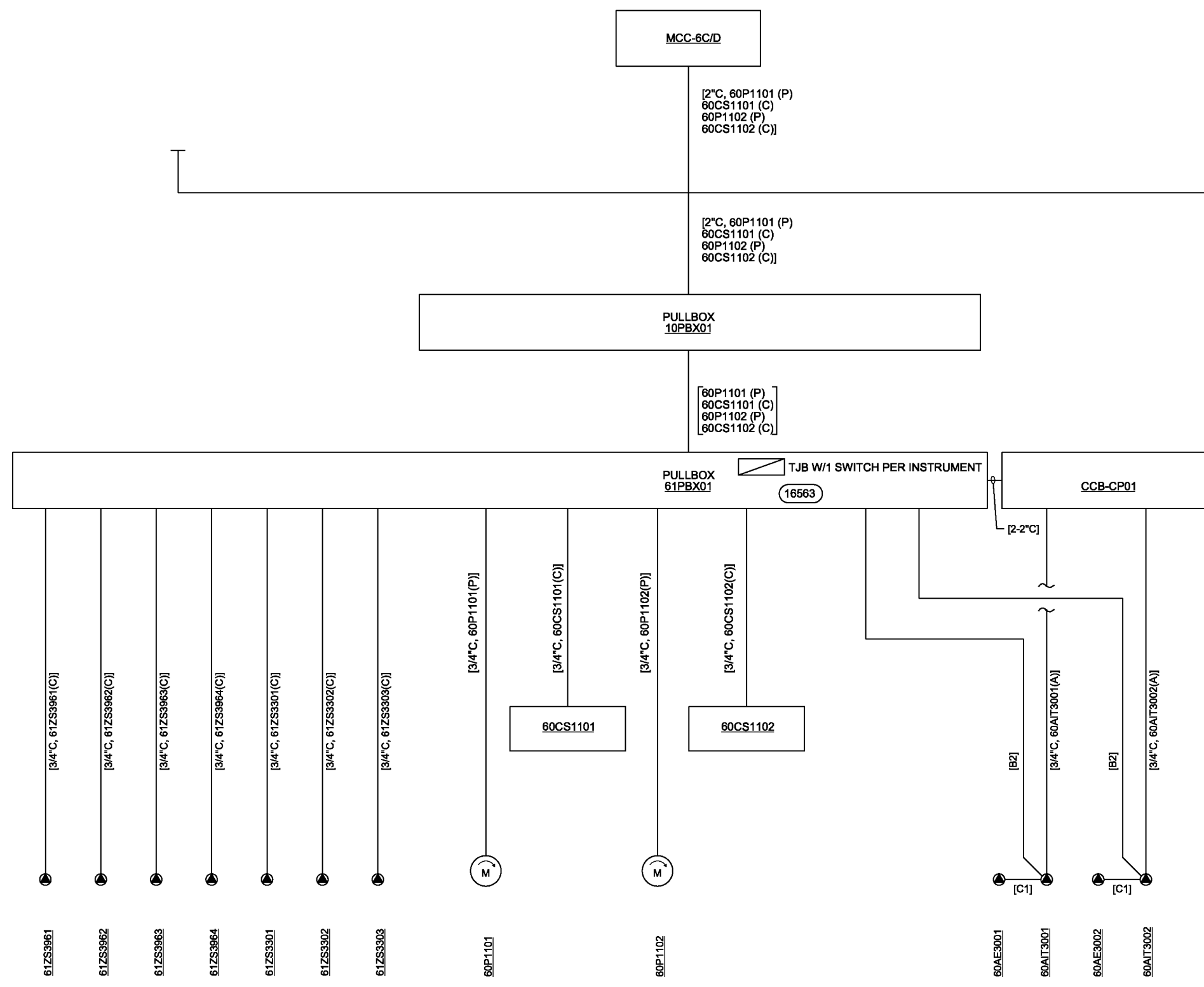


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

DISINFECTION BUILDING AND W3 PUMP STATION
RISER DIAGRAM

| | |
|-------|-------------|
| SHEET | 416 |
| DWG | 61-E-501 |
| DATE | MAY 19 2006 |
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NOTES:
 1. REFER TO SITE Routed CONDUIT SCHEDULE FOR CONDUIT SIZE AND ROUTING OF CIRCUITS FROM PULLBOX TO PANELS LOCATED INSIDE THE ELECTRICAL ROOM.

W3 BUILDING RISER DIAGRAM

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| | | | | | | | |
|------|------------|--|-----|------|----------|----|------|
| DSGN | BR RODGERS | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | NO. | DATE | REVISION | BY | APVD |
| DR | RB CAVE | | | | | | |
| CHK | GJ DeBOIS | | | | | | |
| APVD | RS SHANLEY | | | | | | |

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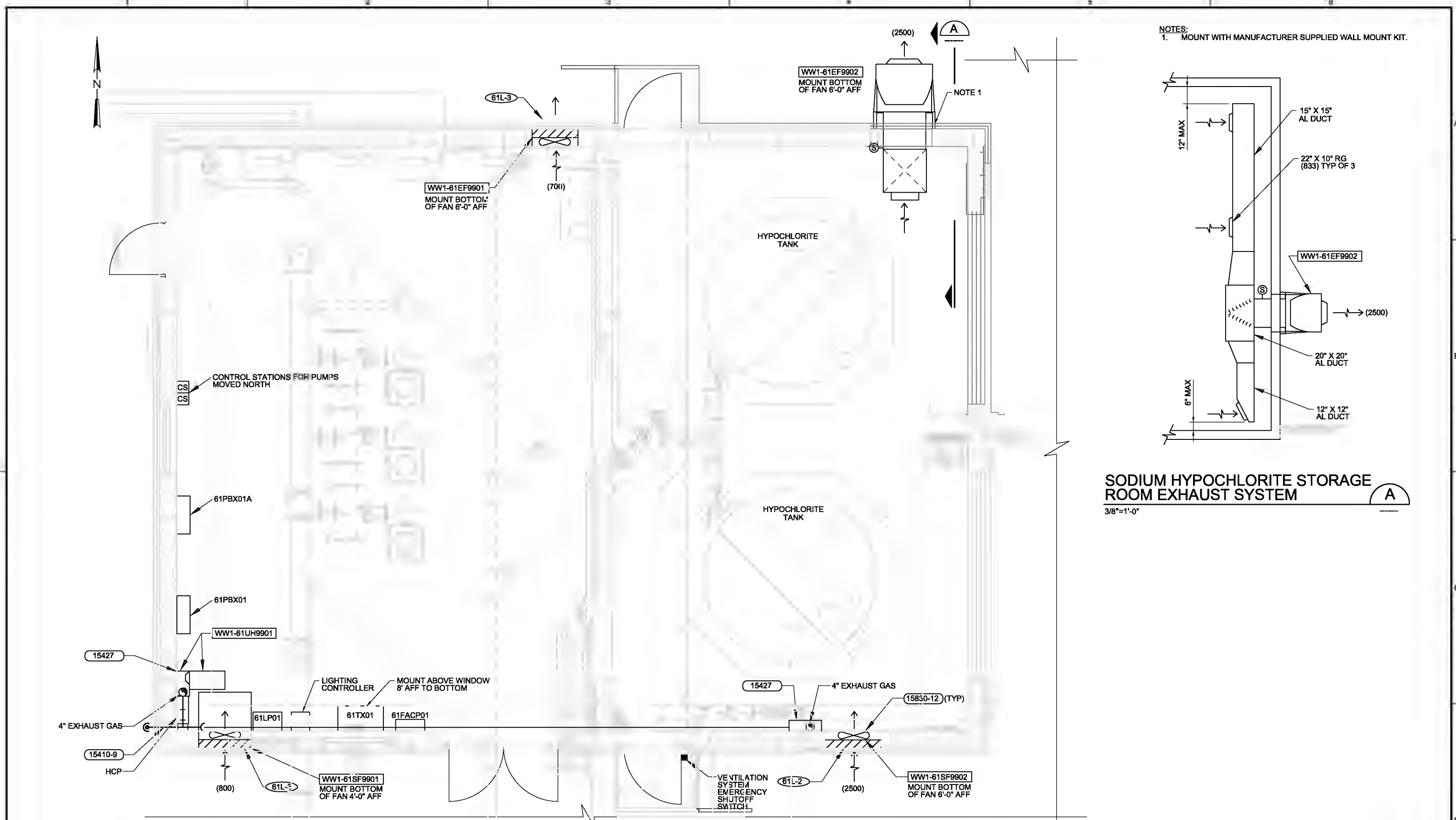


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

DISINFECTION BUILDING AND W3 PUMP STATION
RISER DIAGRAM

| | |
|-------|-------------|
| SHEET | 419 |
| DWG | 61-E-502 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOTES:
 1. MOUNT WITH MANUFACTURER SUPPLIED WALL MOUNT KIT.

SODIUM HYPOCHLORITE STORAGE ROOM EXHAUST SYSTEM
 3/8"=1'-0"

W3 PUMP STATION HVAC PLAN
 3/8"=1'-0"

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| | | | | | |
|------|--------------|----------|------|----------|----|
| DSGN | EL GOLDSTEIN | | | | |
| DR | RE CAVE | | | | |
| CHK | T MOSSINGER | 01/20/10 | | | |
| APVD | APPROVED BY | NO. | DATE | REVISION | BY |

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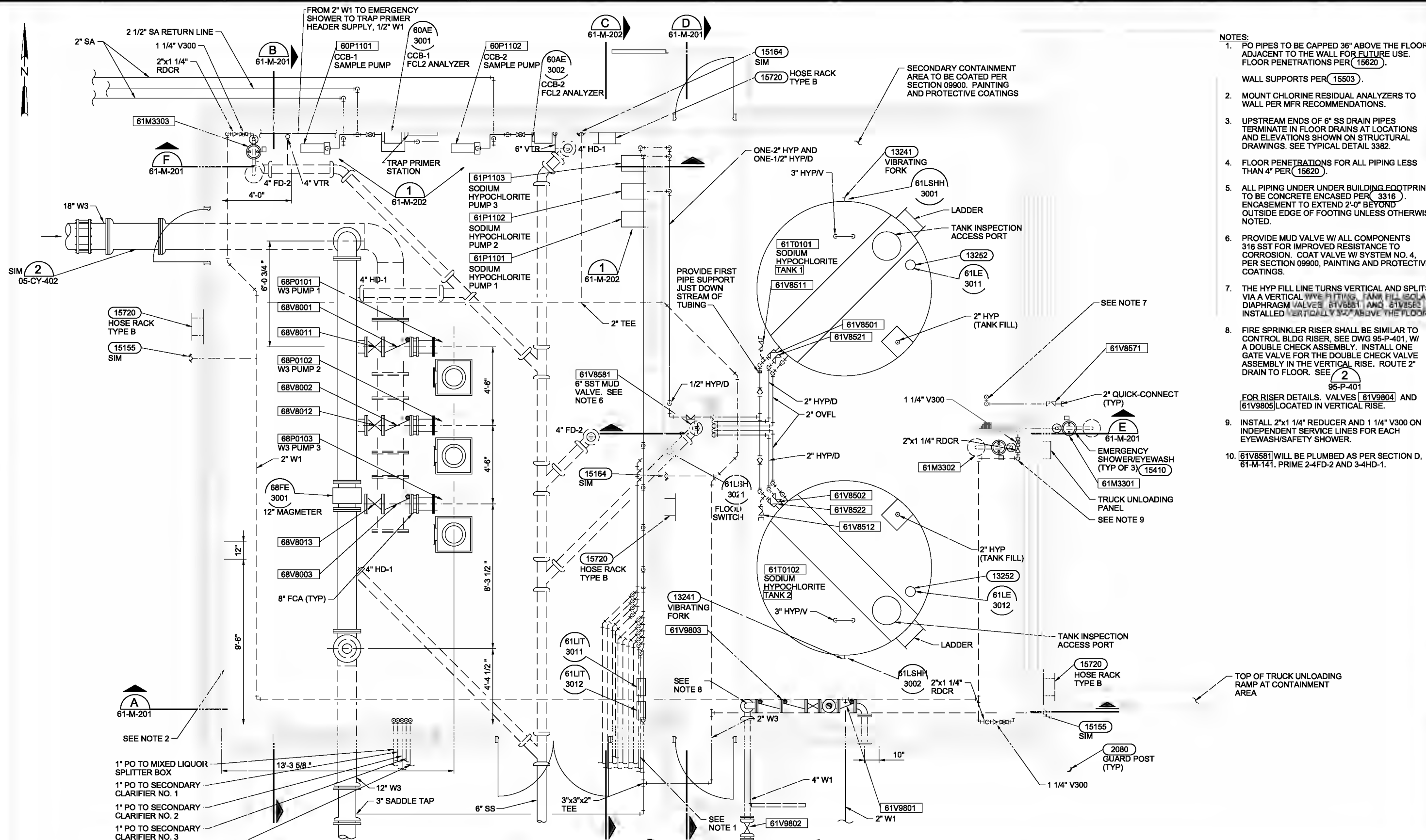


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

DISINFESTION BUILDING AND W3 PUMP STATION
 PLAN

| | |
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| SHEET | 420 |
| DWG | 61-H-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
- PO PIPES TO BE CAPPED 36" ABOVE THE FLOOR, ADJACENT TO THE WALL FOR FUTURE USE. FLOOR PENETRATIONS PER (15620).
WALL SUPPORTS PER (15503).
 - MOUNT CHLORINE RESIDUAL ANALYZERS TO WALL PER MFR RECOMMENDATIONS.
 - UPSTREAM ENDS OF 6" SS DRAIN PIPES TERMINATE IN FLOOR DRAINS AT LOCATIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS. SEE TYPICAL DETAIL 3382.
 - FLOOR PENETRATIONS FOR ALL PIPING LESS THAN 4" PER (15620).
 - ALL PIPING UNDER UNDER BUILDING FOOTPRINT TO BE CONCRETE ENCASED PER (3316). ENCASMENT TO EXTEND 2'-0" BEYOND OUTSIDE EDGE OF FOOTING UNLESS OTHERWISE NOTED.
 - PROVIDE MUD VALVE W/ ALL COMPONENTS 316 SST FOR IMPROVED RESISTANCE TO CORROSION. COAT VALVE W/ SYSTEM NO. 4, PER SECTION 09900, PAINTING AND PROTECTIVE COATINGS.
 - THE HYP FILL LINE TURNS VERTICAL AND SPLITS VIA A VERTICAL WYE FITTING. TANK FILL ISOLATION DIAPHRAGM VALVES 61V8501 AND 61V8502 ARE INSTALLED VERTICALLY 3'-0" ABOVE THE FLOOR.
 - FIRE SPRINKLER RISER SHALL BE SIMILAR TO CONTROL BLDG RISER, SEE DWG 95-P-401, W/ A DOUBLE CHECK ASSEMBLY. INSTALL ONE GATE VALVE FOR THE DOUBLE CHECK VALVE ASSEMBLY IN THE VERTICAL RISE. ROUTE 2" DRAIN TO FLOOR. SEE (2) 95-P-401.
FOR RISER DETAILS, VALVES 61V9804 AND 61V9805 LOCATED IN VERTICAL RISE.
 - INSTALL 2"x1 1/4" REDUCER AND 1 1/4" V300 ON INDEPENDENT SERVICE LINES FOR EACH EYEWASH/SAFETY SHOWER.
 - 61V8581 WILL BE PLUMBED AS PER SECTION D, 61-M-141. PRIME 2-4FD-2 AND 3-4HD-1.

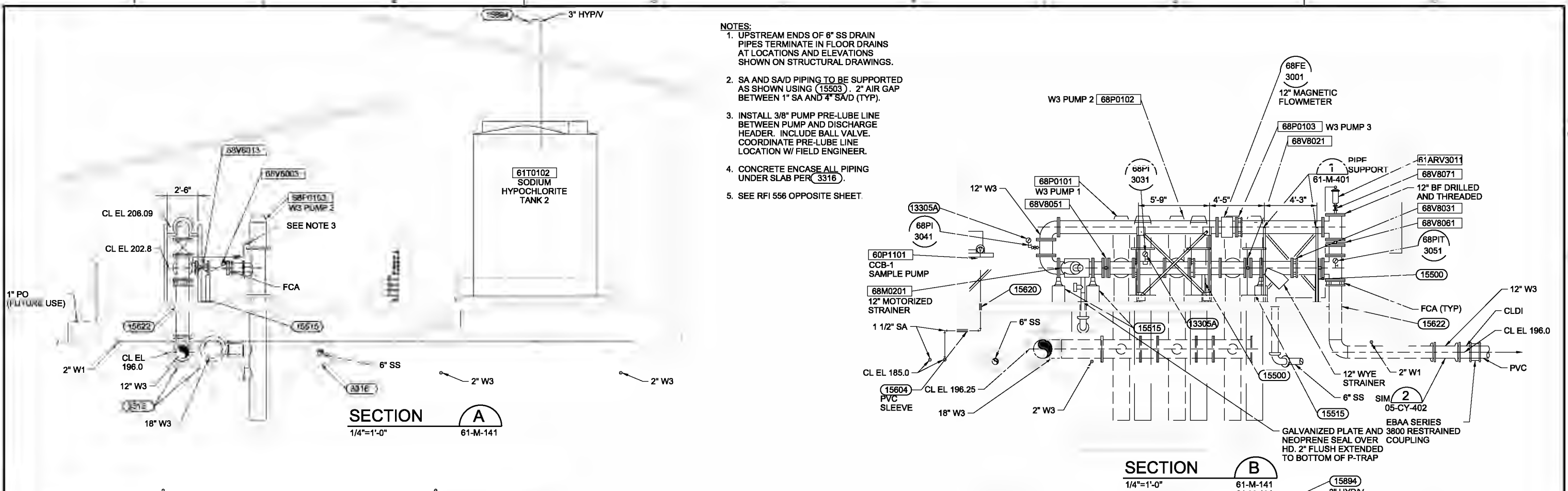
W3 PUMP STATION PLAN
3/8"=1'-0"

- 1" PO TO MIXED LIQUOR SPLITTER BOX
- 1" PO TO SECONDARY CLARIFIER NO. 1
- 1" PO TO SECONDARY CLARIFIER NO. 2
- 1" PO TO SECONDARY CLARIFIER NO. 3
- 1" PO TO FUTURE SECONDARY CLARIFIER

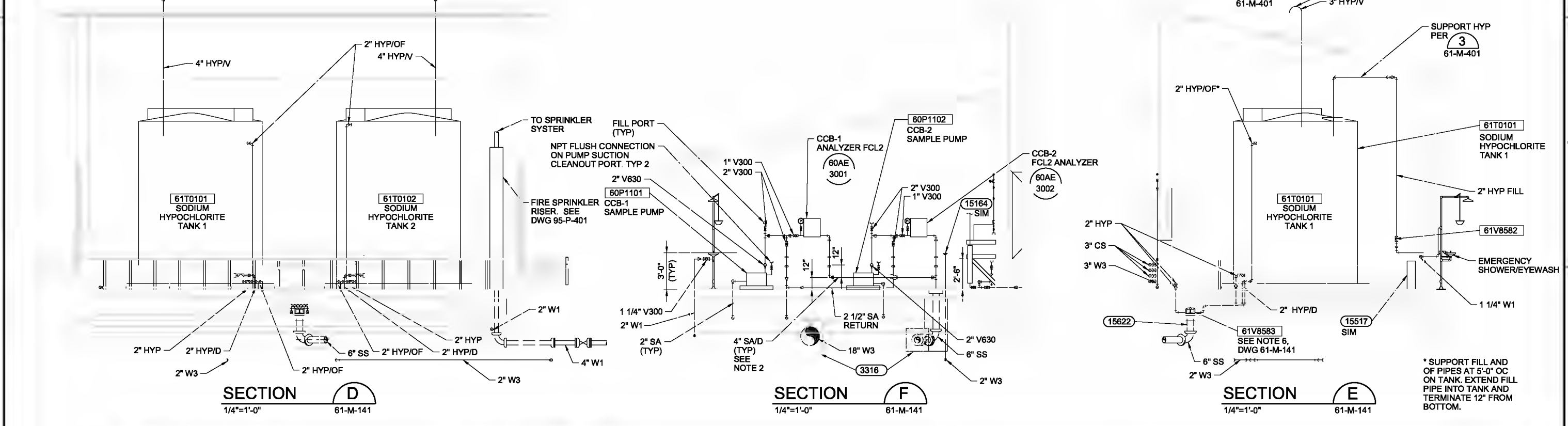
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| | | | | | | | | |
|----------------------|----------------|-----------|----------|-----------|------|------------------------------|--|-------------------|
| DESIGN: BM CASEY | DATE: 01/20/06 | REVISION: | BY: ARVD | CRO: AGC | AGC: | FILENAME: 61m141d_326918.dwg | PROJECT: CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENTS WWT-03-01 LINN COUNTY, OREGON | SHEET: 421 |
| DR: M. GAGE | NO.: | DATE: | BY: | APPROVED: | | PROJECT DATE: 07/1/2010 | PROJECT TIME: 12:23:51 PM | |
| CHK: TR TROPEE | | | | | | | | DWG: 61-M-141 |
| APPROVED: RS SHAWLEY | | | | | | | | DATE: MAY 19 2006 |
| | | | | | | | | PLAN |
| | | | | | | | | PROJ: 326918 |

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- NOTES:
1. UPSTREAM ENDS OF 6" SS DRAIN PIPES TERMINATE IN FLOOR DRAINS AT LOCATIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS.
 2. SA AND SA/D PIPING TO BE SUPPORTED AS SHOWN USING (15503). 2" AIR GAP BETWEEN 1" SA AND 4" SA/D (TYP).
 3. INSTALL 3/8" PUMP PRE-LUBE LINE BETWEEN PUMP AND DISCHARGE HEADER. INCLUDE BALL VALVE. COORDINATE PRE-LUBE LINE LOCATION W/ FIELD ENGINEER.
 4. CONCRETE ENCASE ALL PIPING UNDER SLAB PER (3316).
 5. SEE RFI 556 OPPOSITE SHEET.



* SUPPORT FILL AND OF PIPES AT 5'-0" OC ON TANK. EXTEND FILL PIPE INTO TANK AND TERMINATE 12" FROM BOTTOM.

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| | | | |
|--------|------------|----------|----------|
| DESIGN | RM CASEY | DATE | 01/20/06 |
| CHK | M. GADE | REVISION | |
| APV | TR. THORPE | BY | APV |
| REV | RS SHAWLEY | DATE | |

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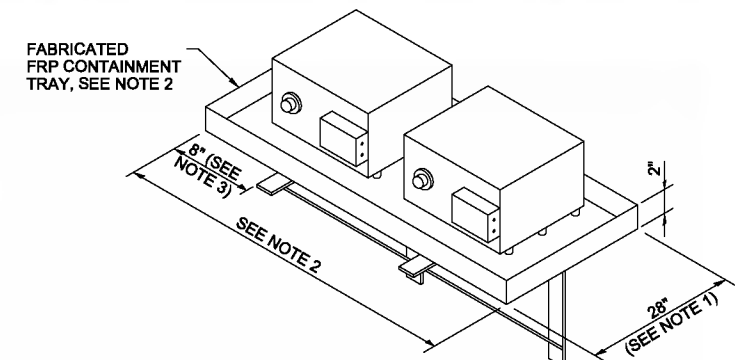


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

DISINFESTION BUILDING AND W3 PUMP STATION
SECTIONS

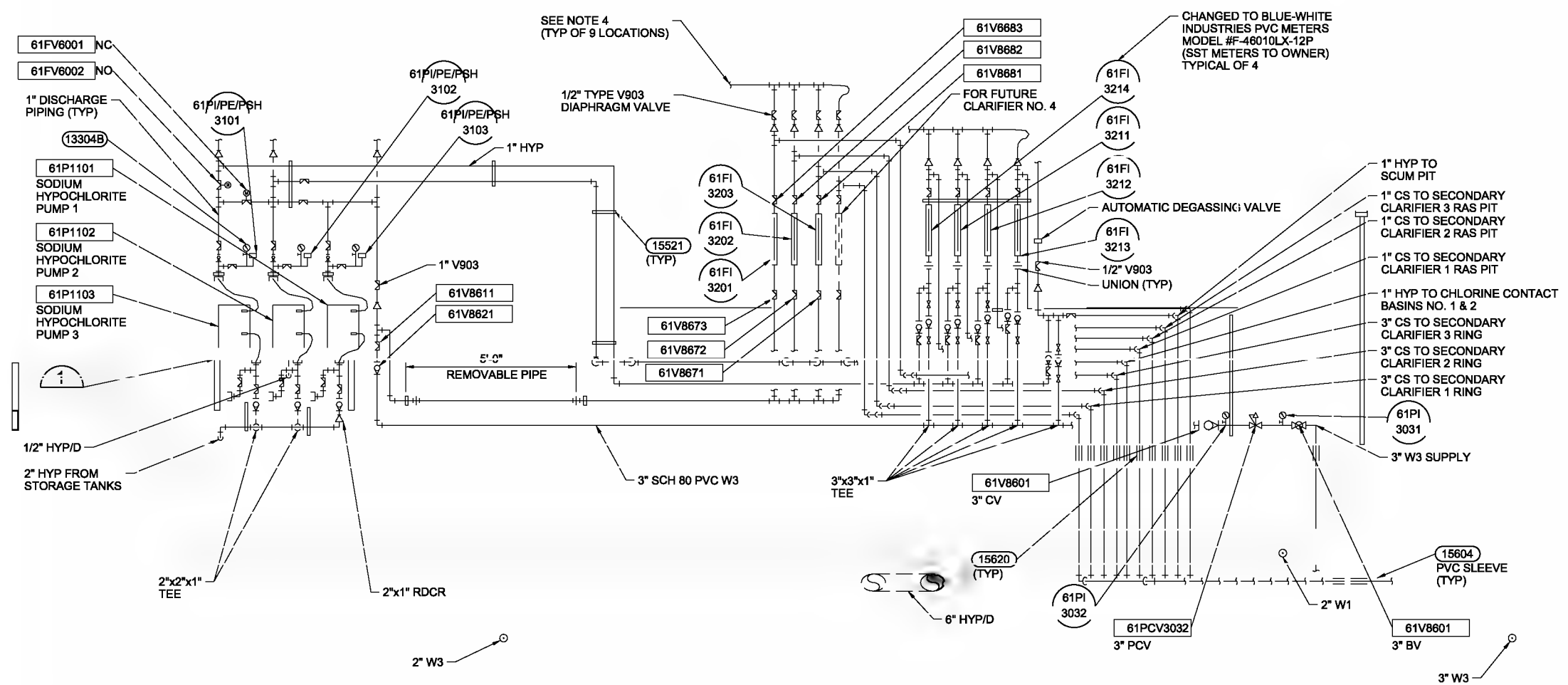
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|-------|-------------|
| SHEET | 422 |
| DWG | 61-M-201 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
1. MINIMUM DIMENSION. INCREASE AS REQUIRED TO PROVIDE 6" CLEARANCE ON BACK AND FRONT OF PUMPS.
 2. ADJUST DIMENSION TO SUIT NUMBER AND SIZE OF PUMPS. PROVIDE A MINIMUM 6" CLEARANCE ON EACH SIDE AND BETWEEN PUMPS.
 3. PROVIDE 1/2"Ø DRAIN IN BOTTOM OF TRAY AT CENTER. USE FRP TO PVC PIPE THREADED ADAPTER WELDED TO FRP FOR WATERTIGHT SEAL. ROUTE 1/2"Ø PVC DRAIN PIPE TO SUMP AND SUPPORT AS REQUIRED. EQUIP WITH DIAPHRAGM VALVE.
 4. HYPOCHLORITE PIPE HIGH POINTS SHALL REDUCE TO 1/2" AND BE FITTED WITH A DIAPHRAGM VALVE. LOCATE CENTER OF DIAPHRAGM VALVE WITHIN 6 FEET OF THE FINISHED FLOOR WITHOUT COMPROMISING THE PIPING HIGH POINT. PLACE 1/2" AUTOMATIC DEGASSING VALVE DOWN STREAM OF DIAPHRAGM VALVE ATTACH 6 INCH PIECE OF CLEAR HYP PIPE OR TUBING TO DISCHARGE PIPE TO OTHER END OF DEGASSING VALVE PRIOR TO ROUTING INTO COMMON DRAIN LINE. CONSOLIDATE DISCHARGE PIPE/TUBING WHERE POSSIBLE. ROUTE DISCHARGE PIPE/TUBING TO HYPOCHLORITE PUMP FRP TRAY FOR DRAINAGE. ALL DISCHARGE PIPE/TUBING TO BE COMPATIBLE WITH 15 PERCENT SODIUM HYPOCHLORITE SOLUTION. HIGH POINTS IN PIPING INDICATED BY REDUCERS ON THE DRAWING, TOTAL OF NINE.
 5. NO SIDEWALLS OR DRAIN REQUIRED FOR NON-CHEMICAL HANDLING PUMPS.

DETAIL 1
NO SCALE
61-M-201



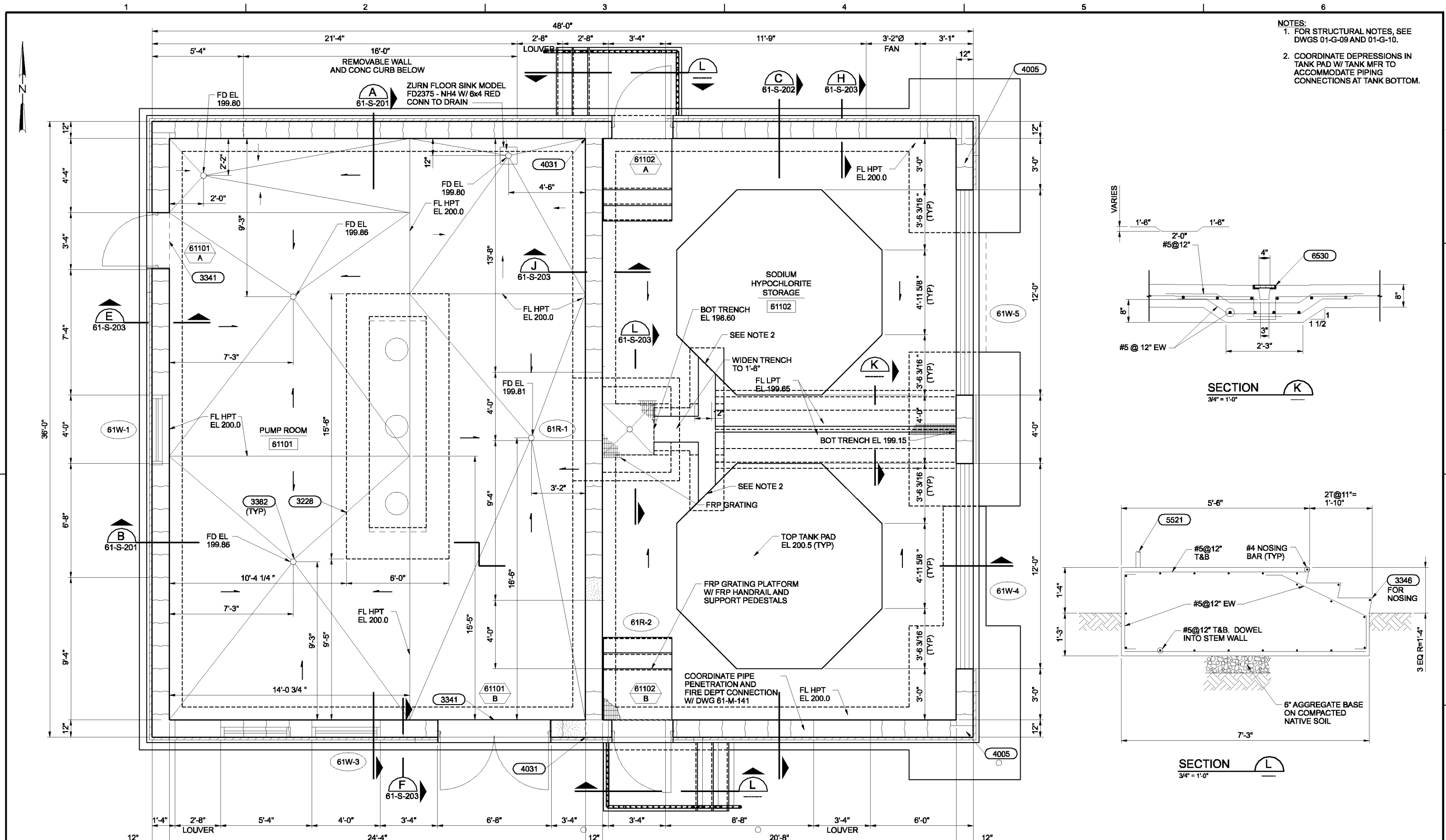
SECTION C
1/2"=1'-0"
61-M-141

- NOTES:**
1. PROVIDE ALL PIPES AND VALVE AS SHOWN ON DWG 08-1-28.
 2. USE TYPICAL DETAIL 15521 TO SUPPORT ALL PIPING SHOWN ON THIS DRAWING.
 3. SEE VALVE SCHEDULE FOR UNTAGGED ITEMS.
 4. HYPOCHLORITE PIPE HIGH POINTS SHALL REDUCE TO 1/2" TUBING WITH AN IN-LINE MANUAL DIAPHRAGM VALVE LOCATED NO HIGHER THAN 5' ABOVE THE FLOOR. ROUTE TUBING TO HYPOCHLORITE PUMP FRP TRAY FOR DRAINAGE. TUBING TO BE COMPATIBLE WITH 15% SODIUM HYPOCHLORITE. TUBING NOT SHOWN FOR CLARIFY. TYPICAL OF NINE LOCATIONS.
 5. CONCRETE ENCASE ALL PIPING UNDER SLAB PER 3316.

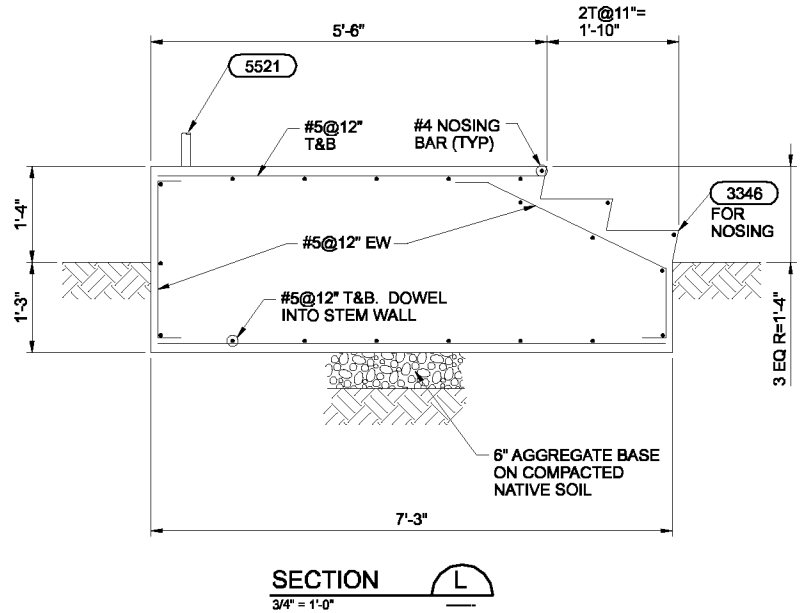
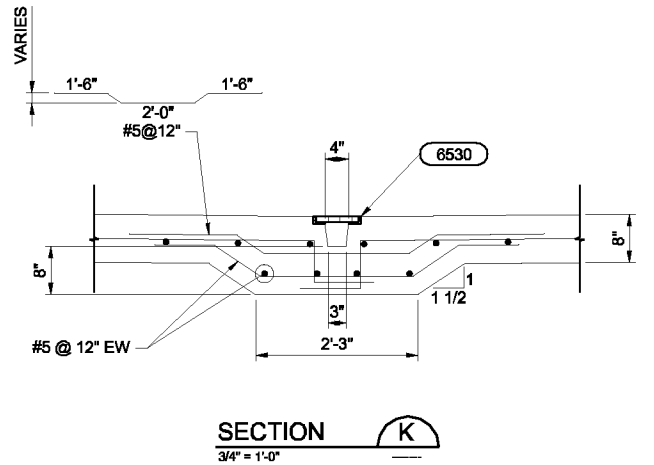
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| | | | | | | | | |
|---|--|-----|-----|--|--|--|---|-------------------|
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | BRK | AGC | | | CITY OF ALBANY SYSTEM IMPROVEMENTS WWTP-03-01 LINN COUNTY, OREGON | DISINFESTION BUILDING AND W3 PUMP STATION | SHEET: 423 |
| | | | | | | | SECTION AND DETAIL | DWG: 61-M-202 |
| | | | | | | | | DATE: MAY 19 2006 |
| | | | | | | | | PROJ: 326918 |

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- NOTES:
- FOR STRUCTURAL NOTES, SEE DWGS 01-G-09 AND 01-G-10.
 - COORDINATE DEPRESSIONS IN TANK PAD W/ TANK MFR TO ACCOMMODATE PIPING CONNECTIONS AT TANK BOTTOM.



FOUNDATION PLAN

3/8" = 1'-0"

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| | | | | | | | |
|------|------------|-----|------|----------|-----|-----|------|
| DSGN | KA MARTIN | NO. | DATE | REVISION | CRO | RAH | APVD |
| DR | MJ GABEL | | | | | | |
| CHK | CA GENTRY | | | | | | |
| APVD | RS SHANLEY | | | | | | |
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(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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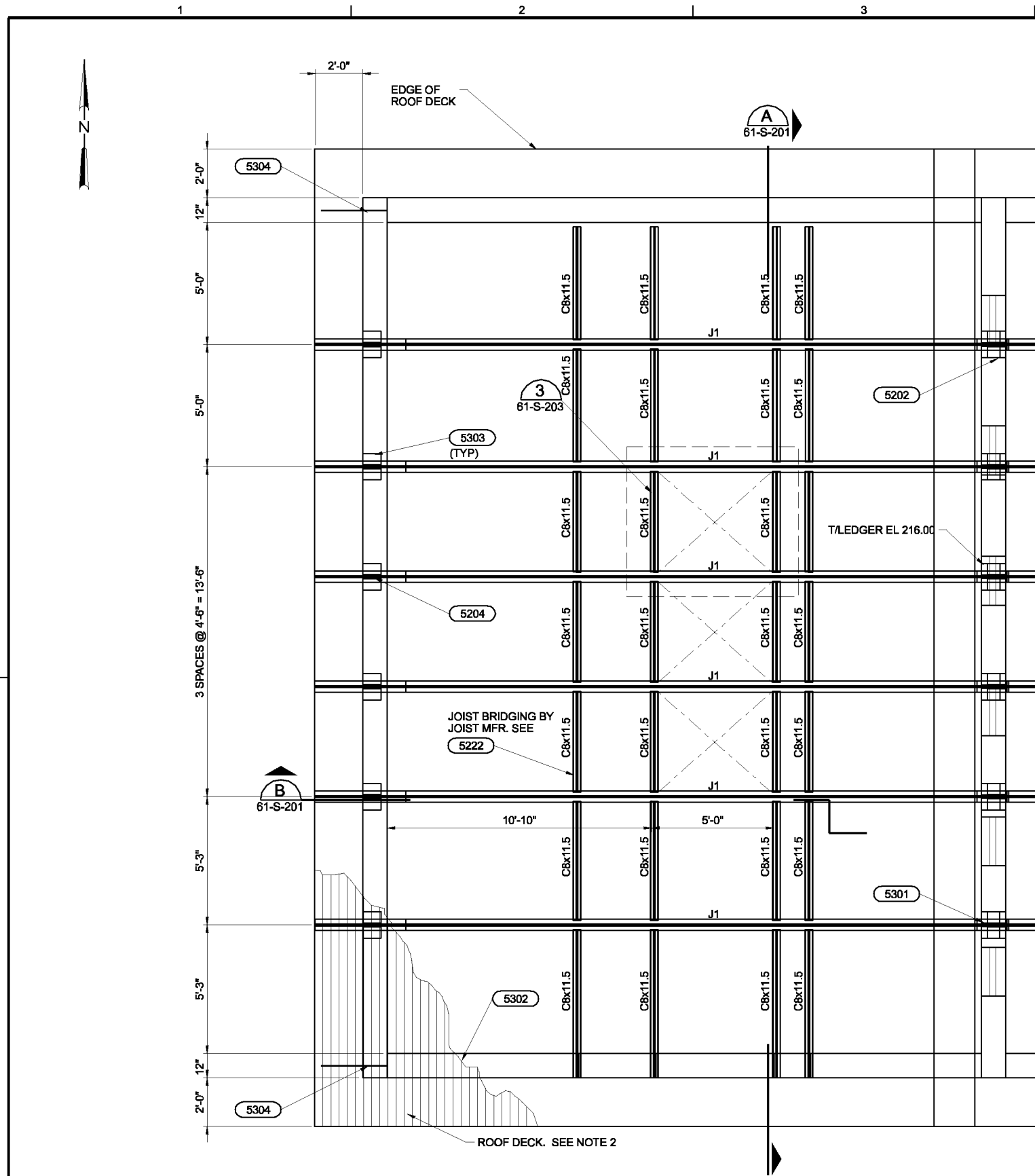
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

DISINFECTION BUILDING AND W3 PUMP STATION

FOUNDATION PLAN

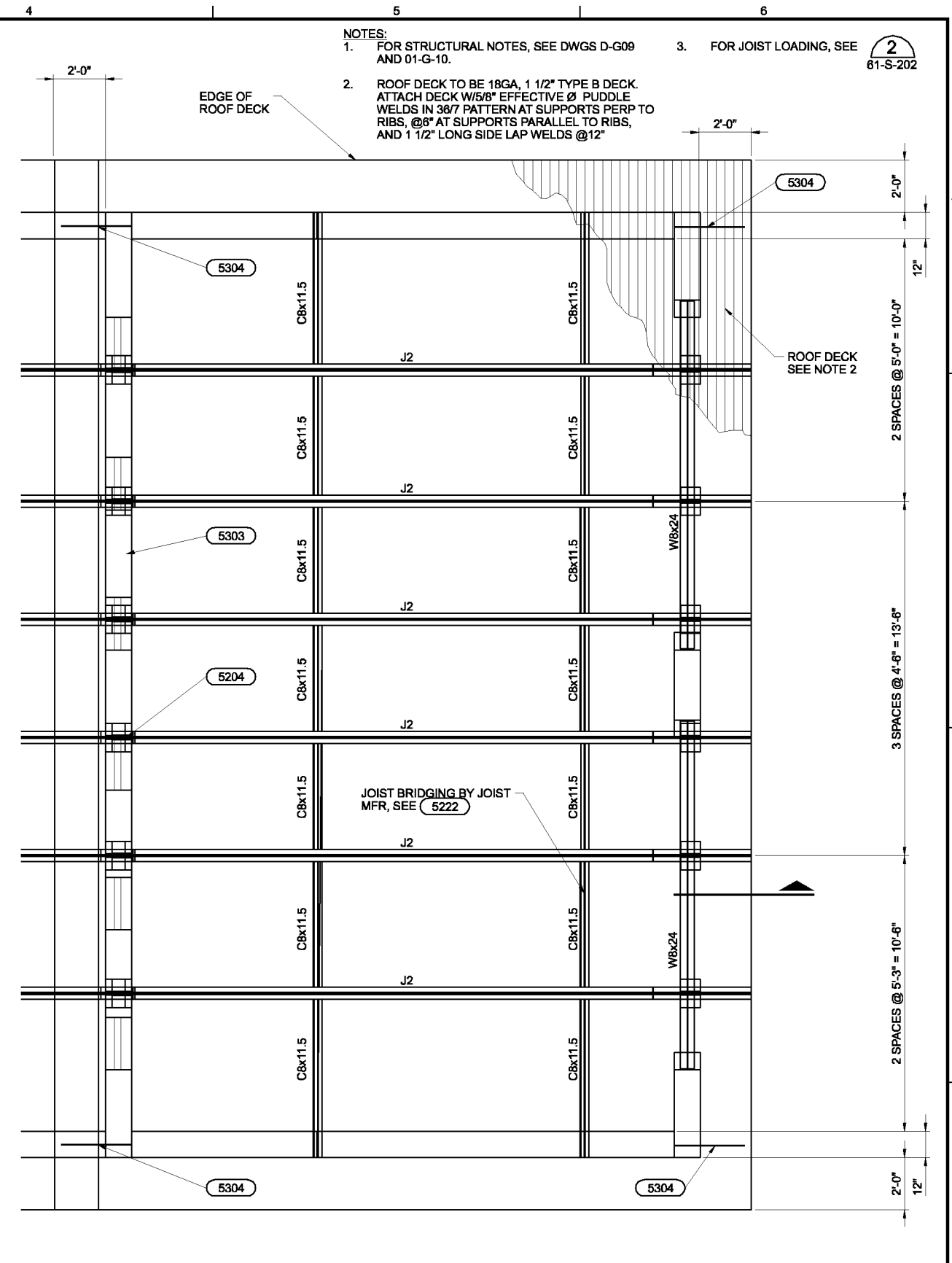
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|-------|-------------|
| SHEET | 424 |
| DWG | 61-S-121 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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LOWER ROOF FRAMING PLAN

3/8"=1'-0"



UPPER ROOF FRAMING PLAN

3/8"=1'-0"

- NOTES:**
- FOR STRUCTURAL NOTES, SEE DWGS D-G09 AND 01-G-10.
 - ROOF DECK TO BE 18GA, 1 1/2" TYPE B DECK. ATTACH DECK W/5/8" EFFECTIVE Ø PUDDLE WELDS IN 36/7 PATTERN AT SUPPORTS PERP TO RIBS, @8" AT SUPPORTS PARALLEL TO RIBS, AND 1 1/2" LONG SIDE LAP WELDS @12"
 - FOR JOIST LOADING, SEE 61-S-202

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| | | | | | | | | |
|------|------------|----------|------|----------|-----|-----|----|------|
| DSGN | KA MARTIN | NO. | DATE | REVISION | CRO | RAH | BY | APVD |
| DR | MJ GABEL | | | | | | | |
| CHK | CA GENTRY | | | | | | | |
| APVD | RS SHANLEY | | | | | | | |
| | | 01/20/10 | | | | | | |
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(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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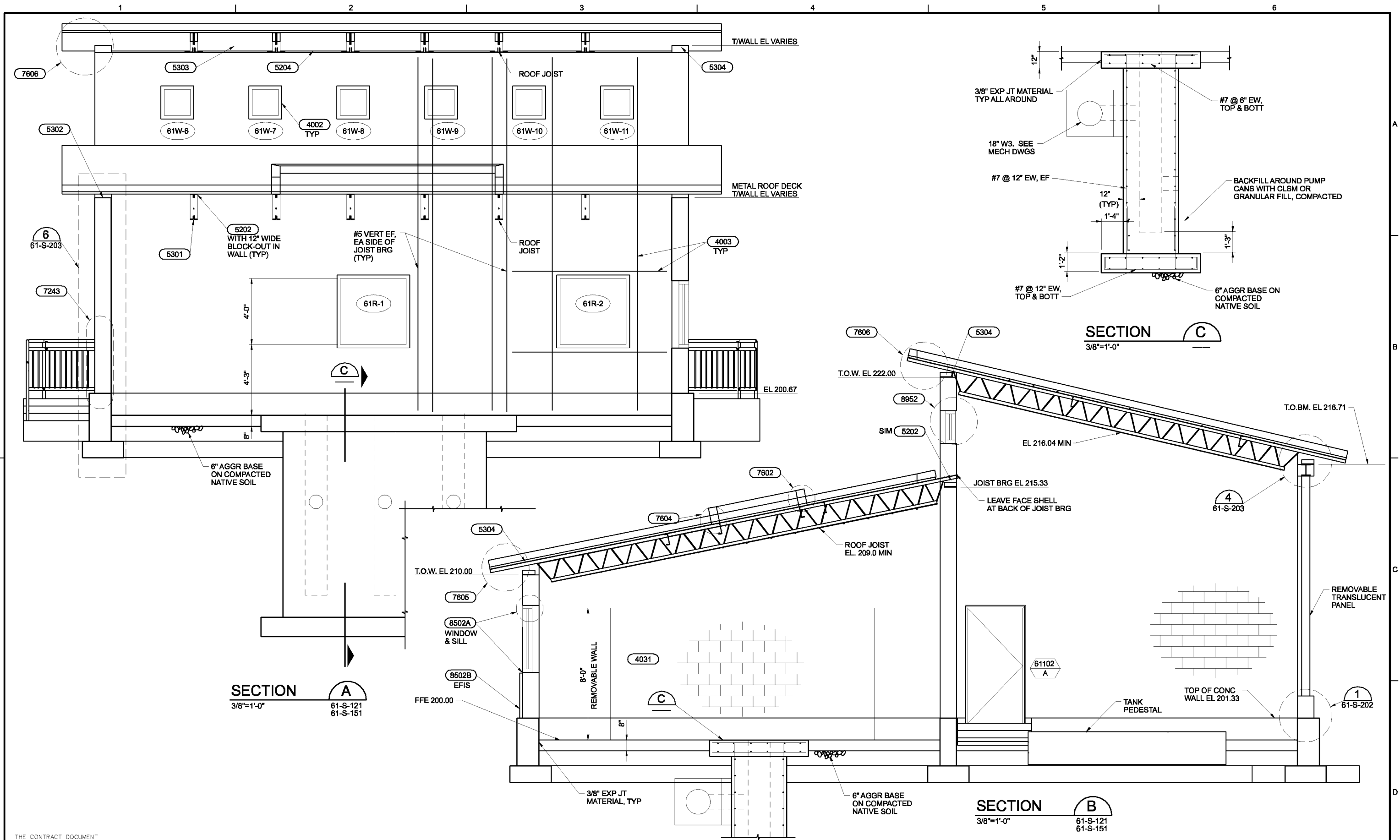
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

DISINFECTION BUILDING AND W3 PUMP STATION

CEILING/ROOF FRAMING PLAN

| | |
|-------|-------------|
| SHEET | 425 |
| DWG | 61-S-151 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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|------|------------|----------|------|----------|----|------|
| DSGN | KA MARTIN | | | | | |
| DR | MJ GABEL | | | | | |
| CHK | CA GENTRY | 01/20/10 | | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY | APVD |

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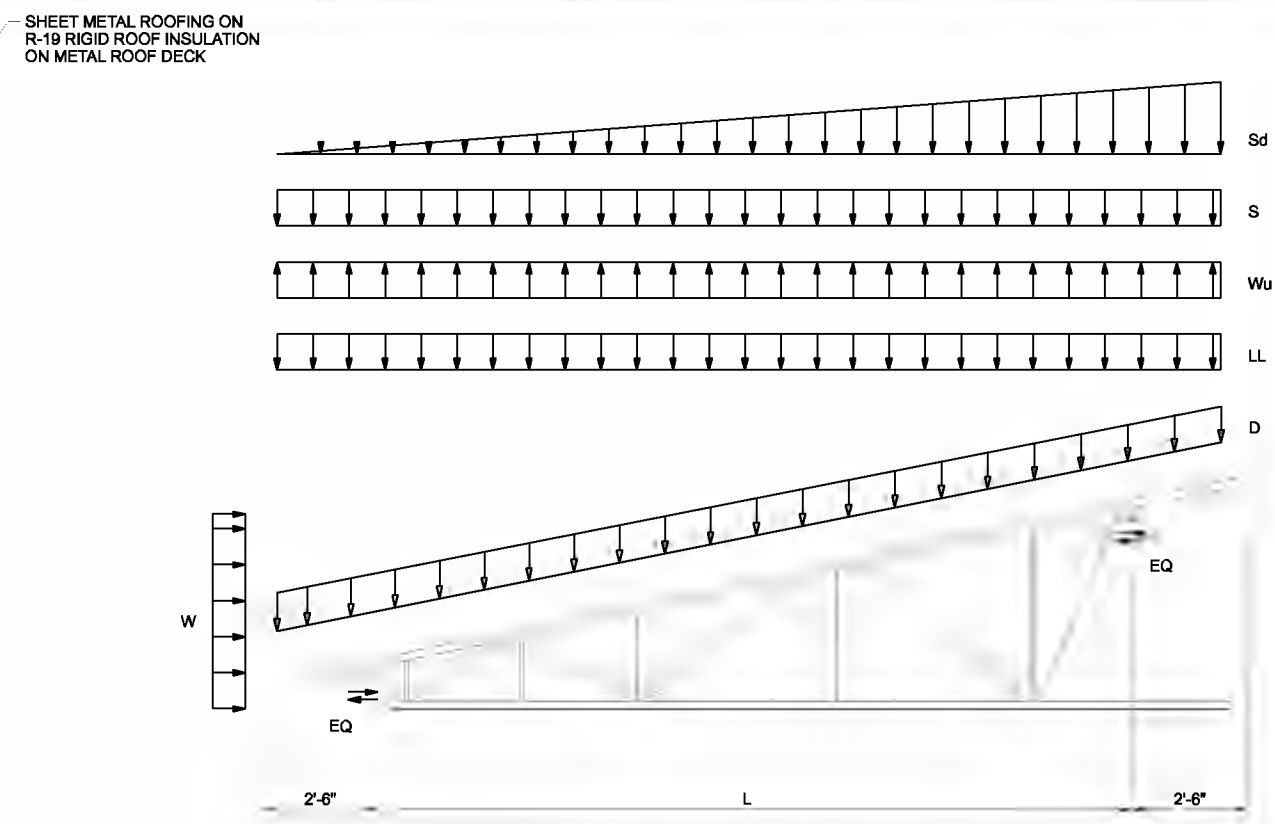
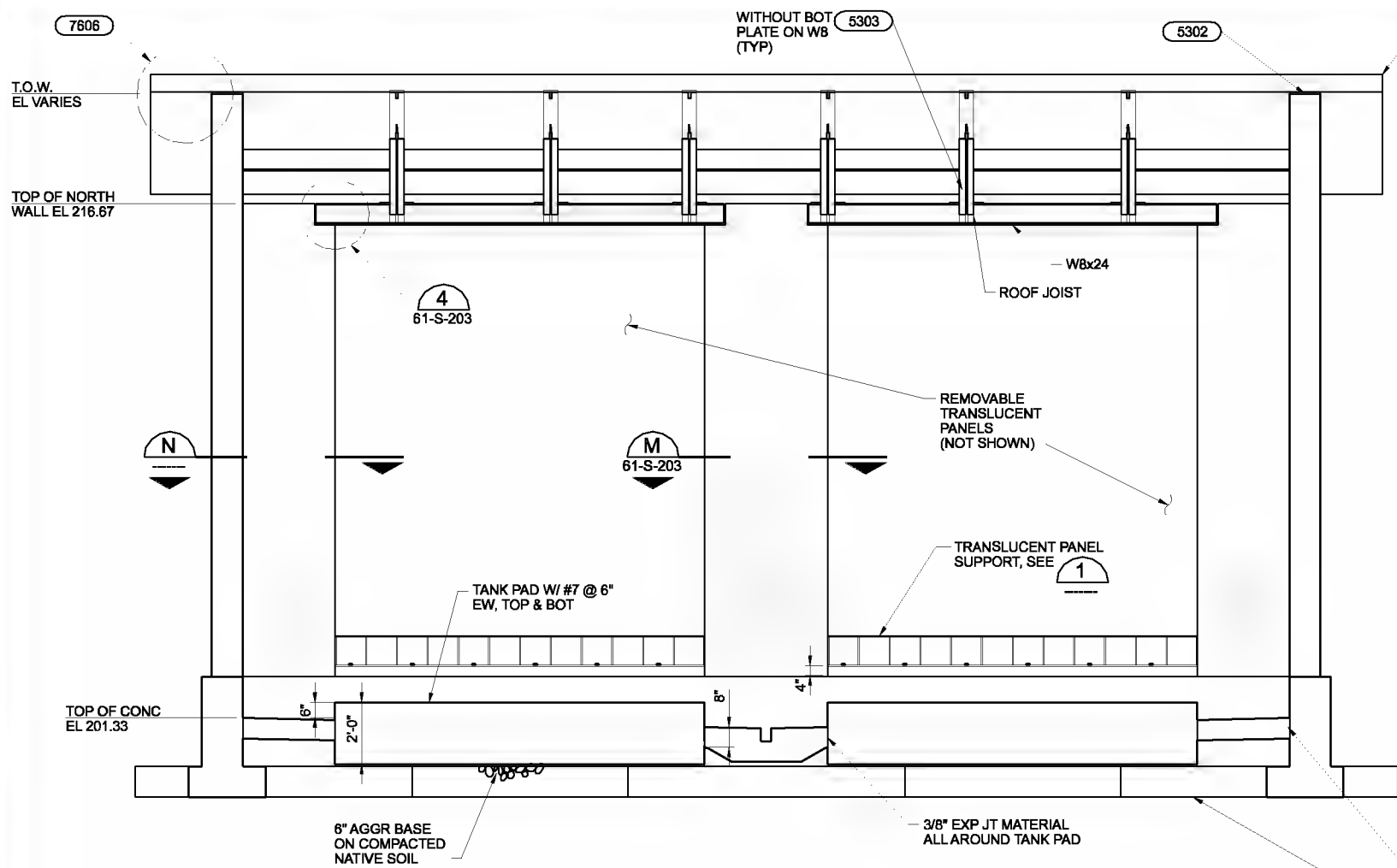
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

DISINFECTION BUILDING AND W3 PUMP STATION

SECTIONS

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|-------|-------------|
| SHEET | 426 |
| DWG | 61-S-201 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

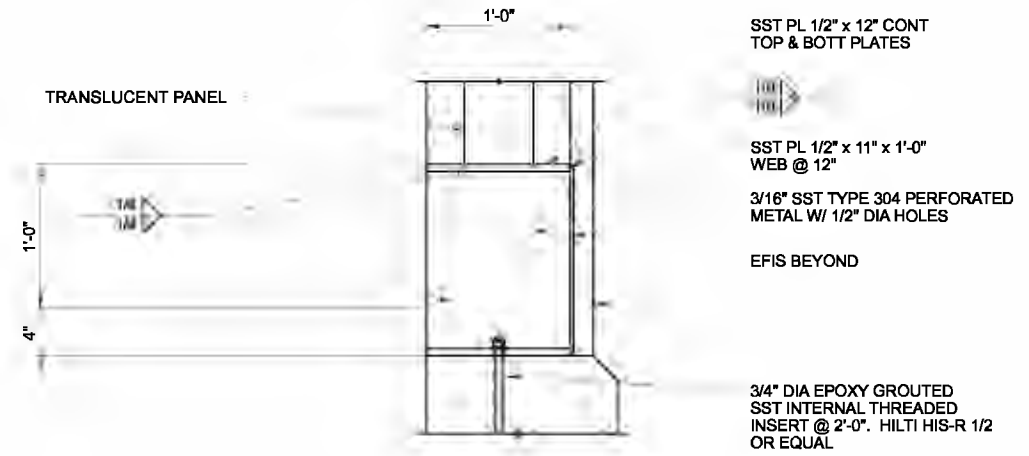
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| JOIST | L | D | LL | W | Wu | S | Sd | SEISMIC EQ |
|----------|--------|---------|---------|---------|---------|---------|------------|------------|
| J1 (18K) | 25'-4" | 105 plf | 105 plf | 115 plf | 145 plf | 160 plf | 142 plf/ft | 1635 lbs |
| J2 (18K) | 21'-8" | 105 plf | 105 plf | 120 plf | 165 plf | 160 plf | N/A | 2255 lbs |

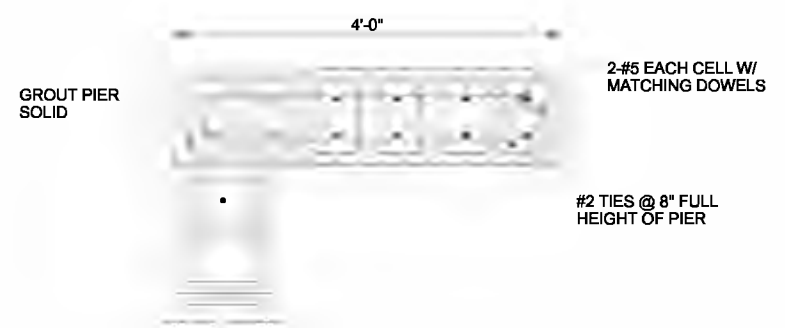
- NOTES:
- SPAN LENGTH GIVEN IS CENTER OF WALL TO CENTER OF WALL.
 - LOAD VALUES ARE SERVICE LEVEL LOADS. NO LOAD FACTOR HAS BEEN APPLIED.
 - WIND LOAD, W, MAY ACT IN EITHER DIRECTION.
 - USE 0.5 TIMES DEAD LOAD, D, TO HELP RESIST WIND UPLIFT, Wu.
 - SEISMIC WALL ANCHORAGE FORCE, EQ, CAN ACT IN TENSION OR COMPRESSION.

SECTION C
3/8"=1'-0"
61-S-121
61-S-201



DETAIL 1
1 1/2"=1'-0"

DETAIL 2
NTS
61-S-151



SECTION N
1"=1'-0"

| | | | | | | | | | |
|------|------------|-----|------|----------|----|------|-----|-----|---|
| DSGN | KA MARTIN | NO. | DATE | REVISION | BY | APVD | CRO | RAH | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | MJ GABEL | | | | | | | | |
| CHK | CA GENTRY | | | | | | | | |
| APVD | RS SHANLEY | | | | | | | | |
| | | | | | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT



WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

DISINFECTION BUILDING AND W3 PUMP STATION
SECTIONS AND DETAILS

| | |
|-------|-------------|
| SHEET | 427 |
| DWG | 61-S-202 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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5204
AT JOIST BEARING
ADD 3-#2 TIES
AROUND 3/4" H.A.S.
(TYP EACH JOIST BEARING)

5303
BETWEEN JOISTS

2-#5 IN 8" BOND
BEAM @ TOP OF
WALL
12" CMU W/ #5 EF VERT
@ 24" AND #5 EF HORIZ
IN 8" BOND BEAM @ 24".
FILL CELLS W/O REINF
WITH INSULATION

#5 DOWELS TO
MATCH WALL VERTS

#5@12"

TOC EL 200.67

2010

1-3" MIN

1-0" MIN

3-#5 CONT
T&B

2-6"

SECTION E
3/8"=1'-0" 61-S-121

STEEL ROOF DECK

ROOF JOIST

4001

3/8" EXP JT FILLER

#5 @ 12" EW

6" AGGR BASE
ON COMPACTED
NATIVE SOIL

ALT HOOKS (TYP)

#5x2'-0" @ 12"
T&B

STEEL ROOF DECK

2-#5 IN 8" BOND
BEAM AT TOP OF WALL

12" CMU W/ #5 EF VERT
@ 24" AND #5 EF HORIZ
IN 8" BOND BEAM @ 24".
FILL CELLS W/O REINF
WITH INSULATION

#5 DOWELS TO MATCH
WALL VERTS

3/8" EXP JT MATERIAL

#5@12" EW

TOC EL 200.67

6" AGGR BASE
ON COMPACTED
NATIVE SOIL

2-6"

SECTION F
3/8"=1'-0" 61-S-121

DRAINAGE TRENCH BEYOND

#5 @ 12" EW, EF

6"

3'-0"

12" (TYP)

1'-0"

6'-0"

2'-0"

#5 @ 12" EW, TOP & BOT

SECTION L
3/4"=1'-0" 61-S-121

4'-6" MAX

C8x11.5

1/4"

1/4"

1-3/4" Ø A 325 BOLTS
SHOULD BE IN SNUG
TIGHT CONDITION

L3x3x1/4. WELD
TO JOIST

OPEN WEB JOIST

DETAIL 3
1/2"=1'-0" 61-S-151

STEEL ROOF DECK

1/4"

1/4"

1-3/4" Ø A 325 BOLTS
SHOULD BE IN SNUG
TIGHT CONDITION

L3x3x1/4. WELD
TO JOIST

OPEN WEB JOIST

DETAIL 4
1"=1'-0" 61-S-201
61-S-202

TOP W8 BM TO MATCH
JOIST BRG PL ELEV

ROOF DECK

W8x24

3/16" STIFFENERS

R 1/2"x10"
W/2-3/4"x12" H.A.S. @8"

3-#3 TIES AROUND
ANCHOR STUDS

1/4"

1/4"

1/4" FILLET WELDS 3"
LONG AT 12" O.C.

ROOF JOIST TO
BEAR DIRECTLY
ON W8 (TYP)

SECTION M
1"=1'-0" 61-S-202

12" CMU

2-#5 VERTS
W/MATCHING
DOWELS
(TYP EA CELL)

#3 TIES @ 8" FULL
HEIGHT OF PIER

GROUT PIER
SOLID

4'-0"

STEEL ROOF DECK

JOIST BRG EL 222.00

2-#5 CONT IN 8"
BOND BEAM

ROOF JOIST

5202
AT JOIST BEARING
ADD 2-#2 TIES AROUND
#5 DBA (TYP EACH JOIST BEARING)

5301
BETWEEN JOISTS

ROOF JOIST

2-#5 IN 8"
BOND BEAM

4001

12" CMU W/ #5 EF VERT
@ 24" AND #5 EF HORIZ
IN 8" BOND BEAM @ 24".
FILL CELLS W/O REINF
WITH INSULATION

#5 DOWELS TO
MATCH WALL VERTS

3/8" EXP JT MATERIAL

#5@12" EW

EL 201.33

1-3" MIN

1-0" MIN

3-#5 CONT
T&B

2-6"

SECTION J
3/8"=1'-0" 61-S-121

6" AGGR BASE
ON COMPACTED
NATIVE SOIL

#5x2'-0" @ 12"
T&B

2-6"

6" AGGR BASE
ON COMPACTED
NATIVE SOIL

#5x2'-0" @ 12"
T&B

3-#5 CONT
T&B

2-6"

5302

STEEL ROOF DECK

T/WALL EL VARIES

2-#7x23'-0"

2-#7x23'-0"

2-9" GROUT

4"

12" CMU W/ #5 EF VERT
@ 24" AND #5 EF HORIZ
IN 8" BOND BEAM @ 24".
FILL CELLS W/O REINF
WITH INSULATION

#5 DOWELS TO
MATCH WALL VERTS

EIFS CONTINUOUS OVER
LOWERED STEM WALL

CONC STEM
WALL BEYOND

#5@12"

TOC EL 200.67

1-3" MIN

1-0" MIN

5'-1-4"

2-6"

SECTION H
3/8"=1'-0" 61-S-121

#5 DOWELS TO
MATCH WALL VERTS

3/8" EXP JT MATERIAL

#5@12" EW

6" AGGR BASE
ON COMPACTED
NATIVE SOIL

#5x2'-0" @ 12"
T&B

3-#5 CONT
T&B

2-6"

6" AGGR BASE
ON COMPACTED
NATIVE SOIL

#5x2'-0" @ 12"
T&B

3-#5 CONT
T&B

2-6"

5302

STEEL ROOF DECK

T/WALL EL VARIES

2-#7x23'-0"

2-#7x23'-0"

2-9" GROUT

4"

12" CMU W/ #5 EF VERT
@ 24" AND #5 EF HORIZ
IN 8" BOND BEAM @ 24".
FILL CELLS W/O REINF
WITH INSULATION

#5 DOWELS TO
MATCH WALL VERTS

EIFS CONTINUOUS OVER
LOWERED STEM WALL

CONC STEM
WALL BEYOND

#5@12"

TOC EL 200.67

1-3" MIN

1-0" MIN

5'-1-4"

2-6"

DETAIL 6
3/8"=1'-0" 61-S-201

#5 DOWELS TO
MATCH WALL VERTS

3/8" EXP JT MATERIAL

#5@12" EW

6" AGGR BASE
ON COMPACTED
NATIVE SOIL

#5x2'-0" @ 12"
T&B

3-#5 CONT
T&B

2-6"

6" AGGR BASE
ON COMPACTED
NATIVE SOIL

#5x2'-0" @ 12"
T&B

3-#5 CONT
T&B

2-6"

NOTES:

1. AT REMOVEABLE WALL
PANEL, STOP STEM
WALL AT TOP OF SLAB.
COVER WITH 2 LAYERS
BUILDING PAPER BEFORE
LAYING CMU.

2. FIRST COARSE OF CMU
TO BE GRAY TO MATCH
STEM WALL BEYOND.

THE CONTRACT DOCUMENT
DRAWINGS ARE PRINTED
DOCUMENTS WHICH DEFINE
THE SCOPE, EXTENT, AND
CHARACTER OF THE WORK.
THE ORIGINAL DOCUMENT
DRAWINGS WERE SEALED
AND SIGNED 05/06 BY
KIPP A. MARTIN STATE OF
OREGON, P.E. NO. 16,276.

| | |
|----------|-------------|
| DSGN | KA MARTIN |
| DR | ED LONGORIA |
| CHK | CA GENTRY |
| APVD | RS SHANLEY |
| NO. | DATE |
| | 01/20/10 |
| REVISION | |

(FOR LIMITATIONS SEE RECORD
DRAWING NOTE ON SHEET 1)
AS-BUILT

| | |
|---|------|
| CRO | RAH |
| BY | APVD |
| VERIFY SCALE | |
| BAR IS ONE INCH ON ORIGINAL DRAWING. | |
| IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | |



WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

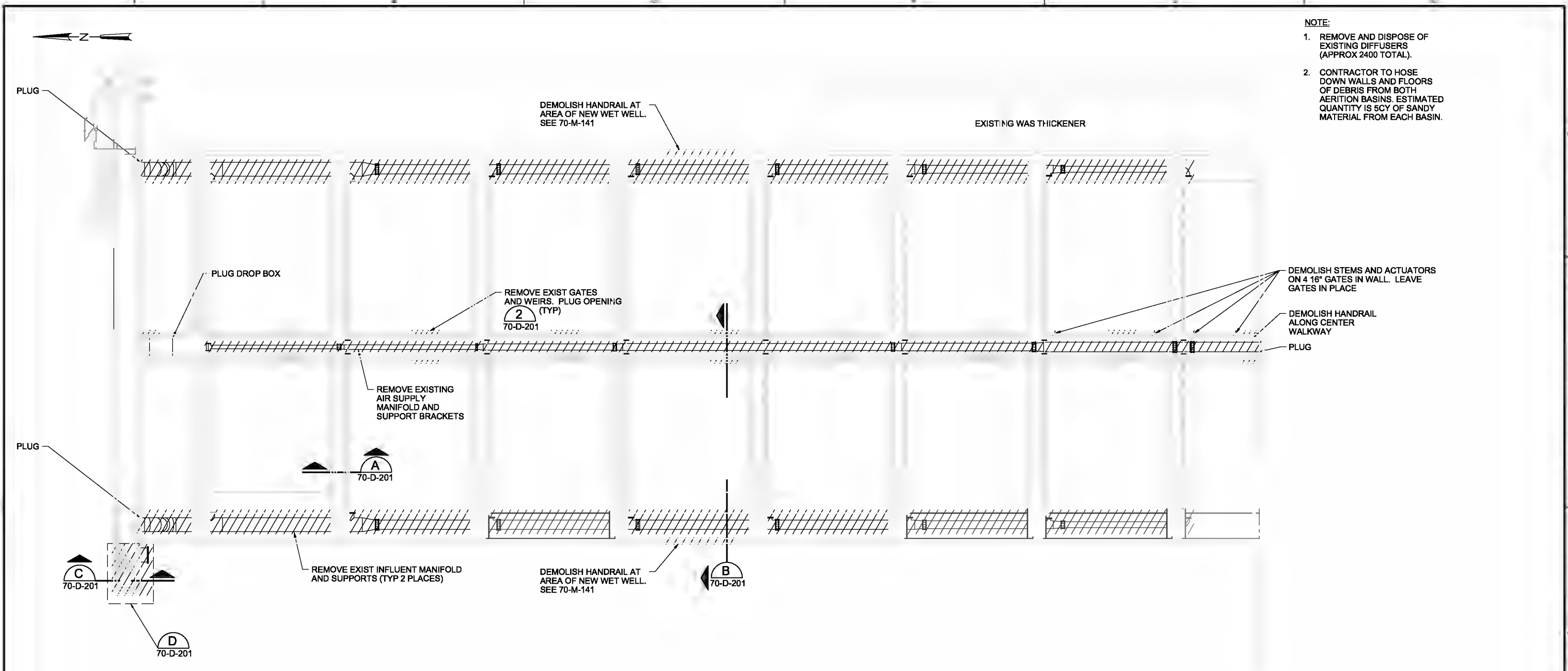
DISINFECTION BUILDING AND W3 PUMP STATION
SECTIONS AND DETAILS

| | |
|-------|-------------|
| SHEET | 428 |
| DWG | 61-S-203 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOTE:

1. REMOVE AND DISPOSE OF EXISTING DIFFUSERS (APPROX 2400 TOTAL).
2. CONTRACTOR TO HOSE DOWN WALLS AND FLOORS OF DEBRIS FROM BOTH AERATION BASINS. ESTIMATED QUANTITY IS 5CY OF SANDY MATERIAL FROM EACH BASIN.



AERATION BASIN DEMOLITION PLAN

3/32"=1'-0"

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY BRIAN W. HEMPHILL, STATE OF OREGON, P.E. NO. 9320

| | | | | | |
|--------|-------------|----------|------|----------|----|
| DESIGN | BW HEMPHILL | | | | |
| DR | M. GADE | | | | |
| CHK | TR THORPE | 01/20/10 | | | |
| APR | RS SHAWLEY | NO. | DATE | REVISION | BY |

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0" = 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

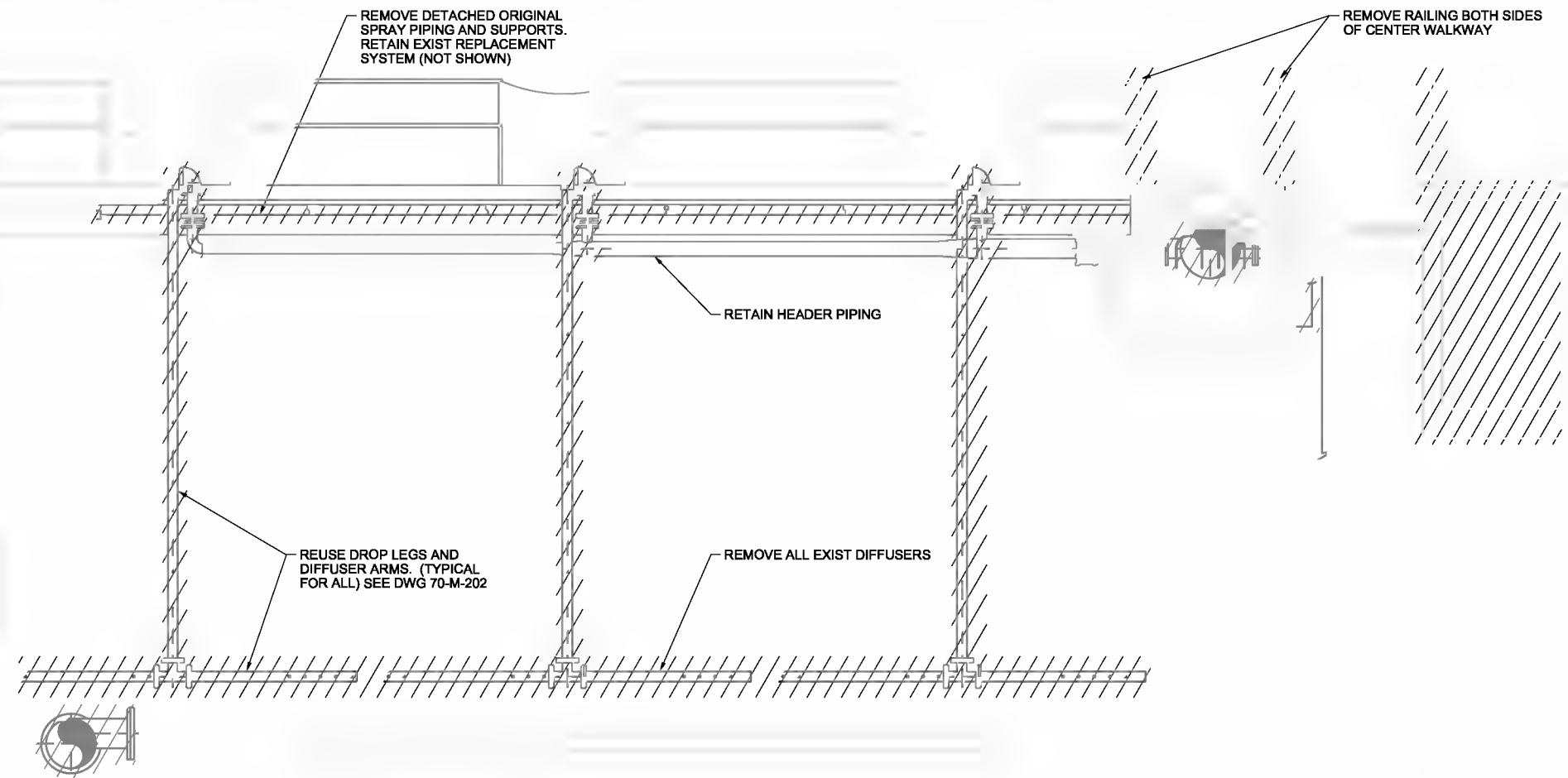


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

CHLORINE CONTACT BASINS
 EXISTING AERATION BASINS
 DEMOLITION PLAN

| | |
|-------|----------|
| SHEET | 429 |
| DWG | 70-D-141 |
| DATE | CDD-DATE |
| PROJ | 326918 |

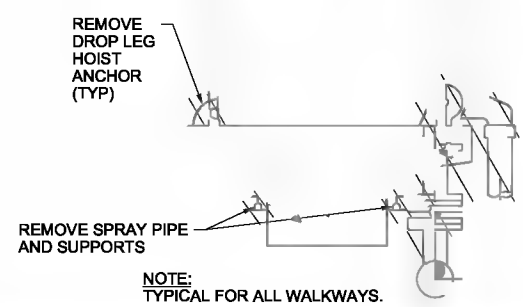
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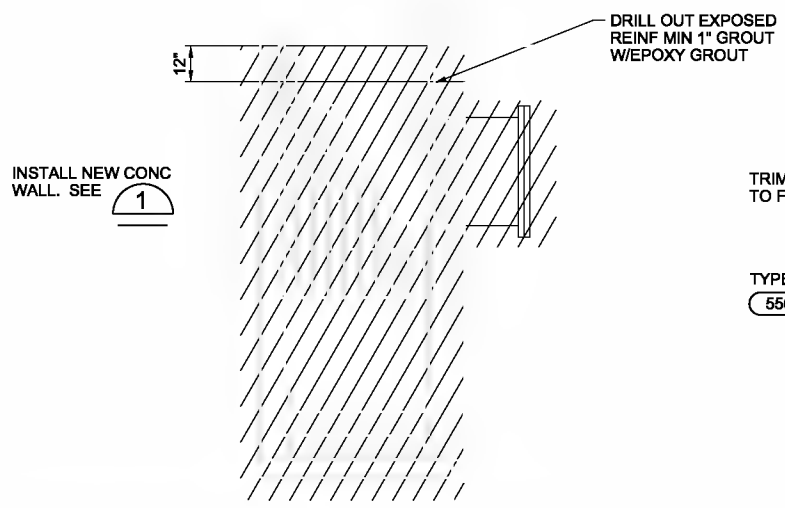
NOTE:
AIR LINE DEMOLITION IS TYPICAL FOR ALL

SECTION B
3/8"=1'-0" 70-D-141

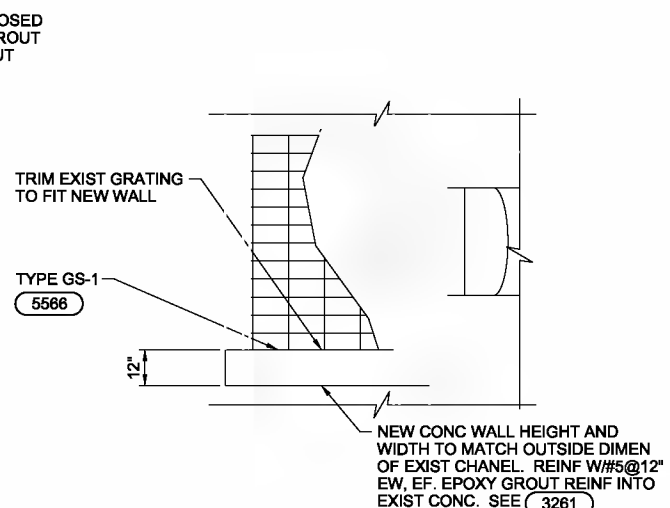
SECTION C
3/8"=1'-0" 70-D-141



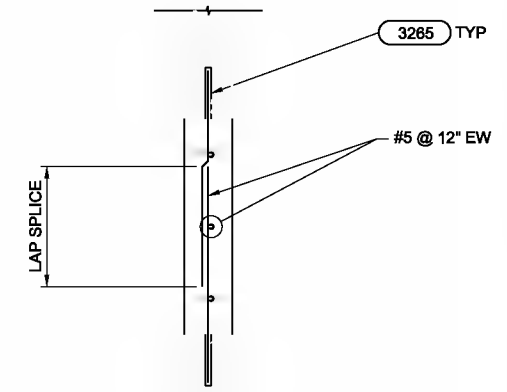
SECTION A
3/4"=1'-0" 70-D-141



PARTIAL DEMO PLAN D
1/4"=1'-0" 70-D-141



DETAIL 1
3/8"=1'-0"



DETAIL 2
3/4"=1'-0" 10-S-131

NOTES:
1. LAP HORIZ AND VERT BARS IN MIDDLE OF OPENING

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY BRIAN W. HEMPHILL, STATE OF OREGON, P.E. NO. 9,320

| | | | | | |
|----------|-------------|------|----------|----------|--|
| DESIGN | BW HEMPHILL | DATE | 01/20/06 | REVISION | |
| DR | AL GABER | NO. | | BY | |
| CHK | TR THORPE | DATE | | APPROVED | |
| APPROVED | RS BRADLEY | NO. | | DATE | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0" = 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



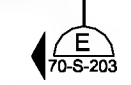
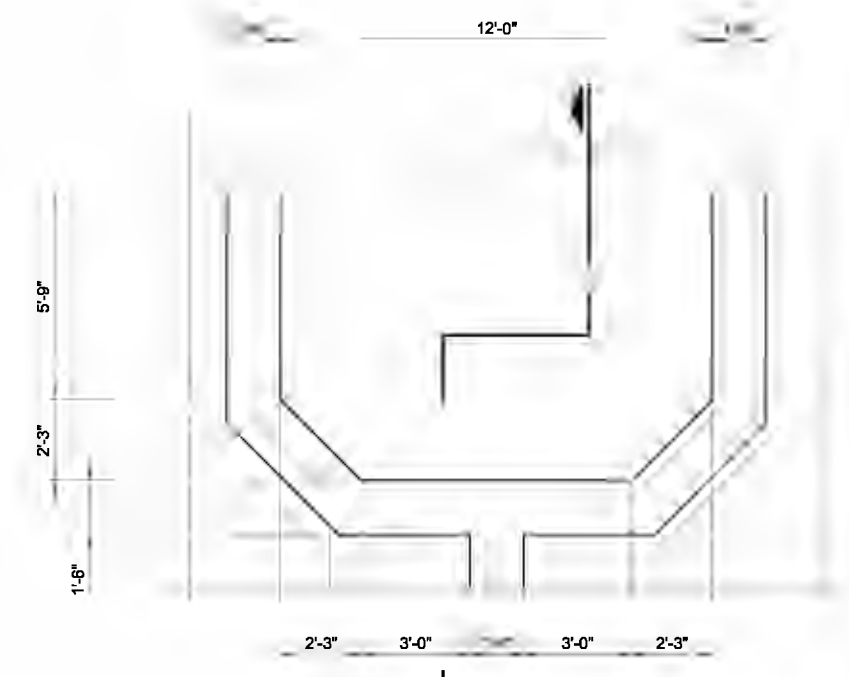
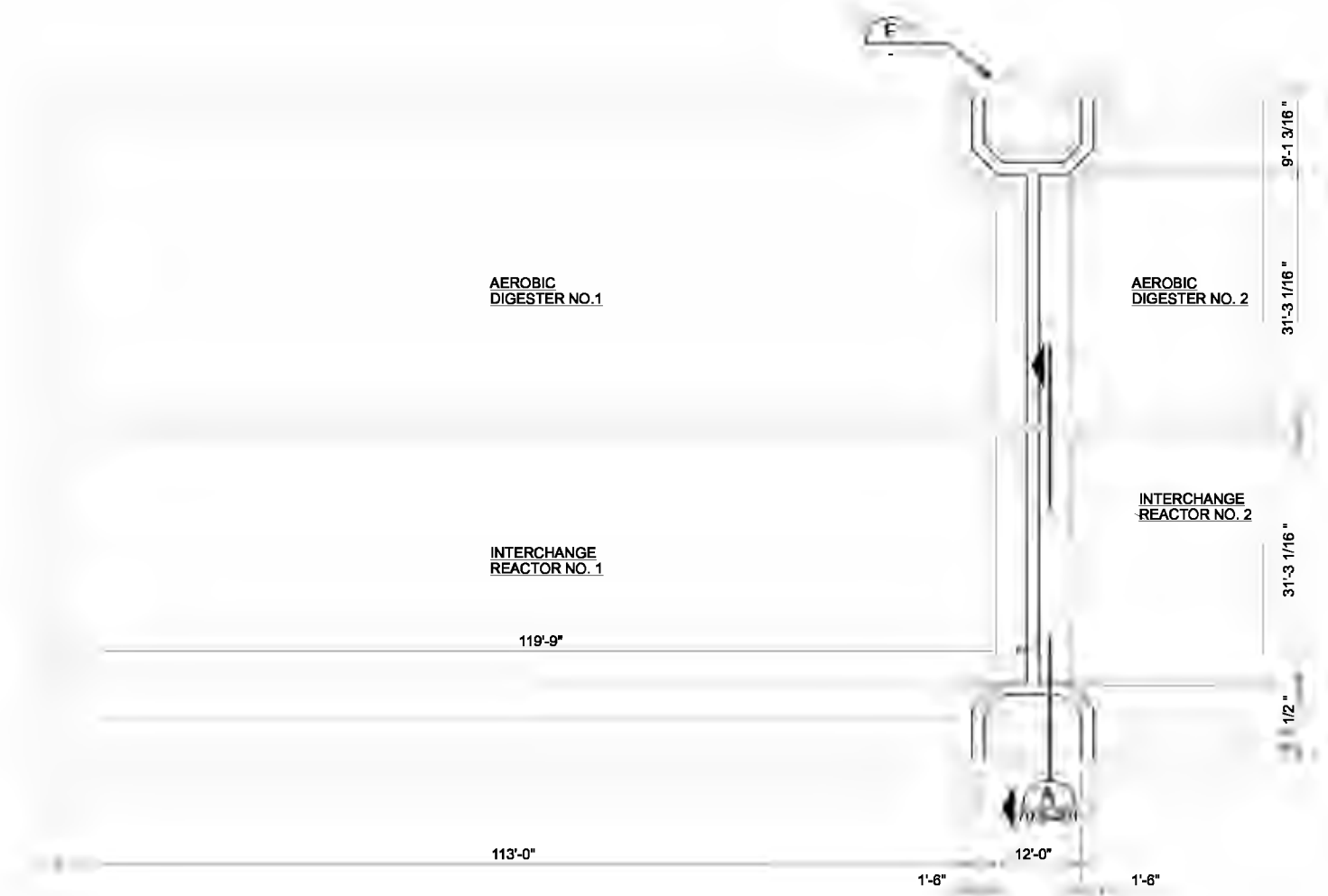
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INTERCHANGE REACTORS/AEROBIC DIGESTERS
EXISTING AERATION BASINS
DEMOLITION SECTIONS
AND DETAILS

| | |
|-------|-------------|
| SHEET | 430 |
| DWG | 70-D-201 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOTE:
1. SEE STRUCTURAL NOTES ON DWGS
01-G-09 AND 01-G-10.



NOTE:
WET WELL ON WEST SIDE IS
MIRROR IMAGE OF THIS WET WELL.

PARTIAL PLAN F
3/8"=1'-0"

INTERCHANGE REACTORS/AEROBIC DIGESTER PARTIAL PLAN
3/32"=1'-0"

| | | | | | | | | | |
|--|------------|-----|------|----------|----|------|-----|-----|---|
| DSGN | KA MARTIN | NO. | DATE | REVISION | BY | APVD | CRO | AGC | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | MJ GABEL | | | | | | | | |
| CHK | CA GENTRY | | | | | | | | |
| APVD | RS SHANLEY | | | | | | | | |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | | | | | | | | |



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

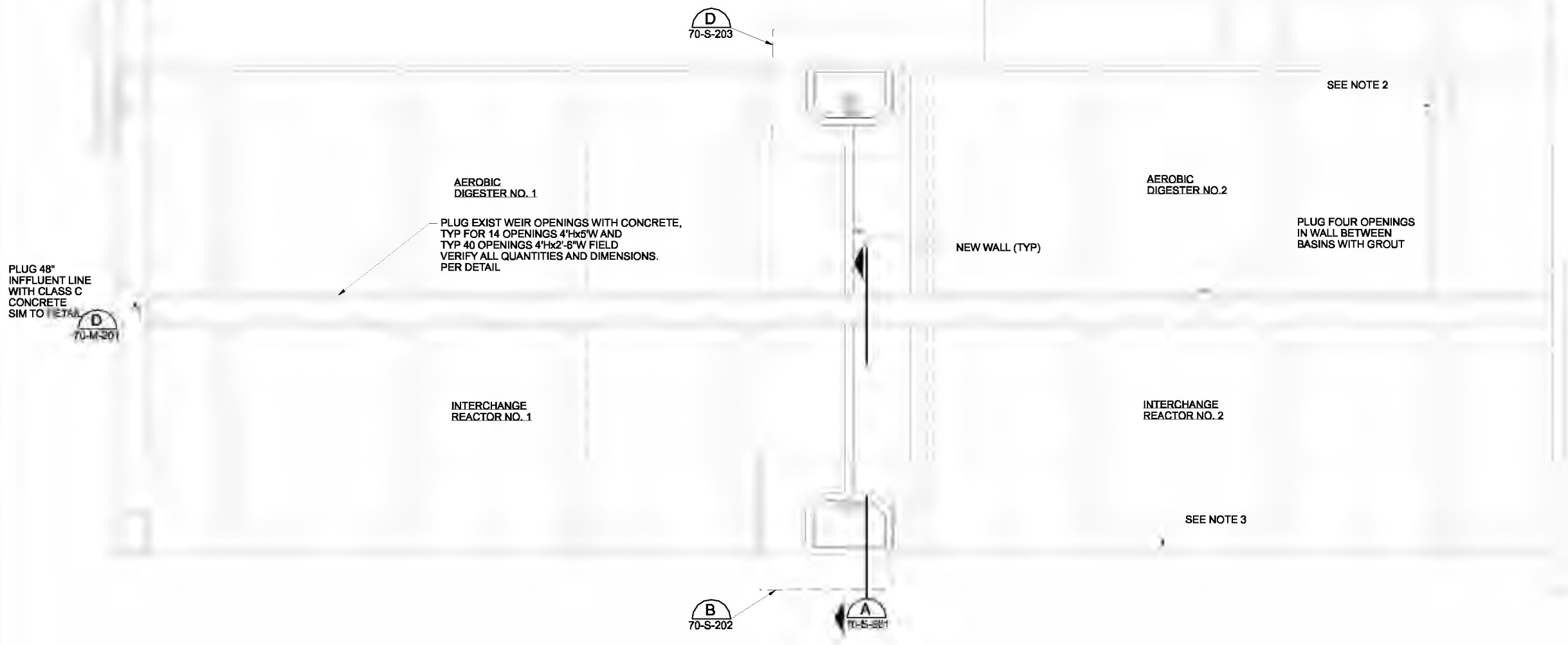
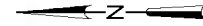
INTERCHANGE REACTORS/AEROBIC DIGESTERS
LOWER PLAN

| | |
|-------|-------------|
| SHEET | 431 |
| DWG | 70-S-131 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOTES:

1. FOR STRUCTURAL NOTES, SEE DWGS 01-G-09 AND 01-G-10.
2. FILL ALL HOLES AT DEMOLISHED SWING JOINTS.



INTERCHANGE REACTORS/AEROBIC DIGESTER TOP PLAN
 3/32"=1'-0"

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| | | | | | | | | | |
|------|------------|-----|------|----------|----|------|-----|-----|---|
| DSGN | KA MARTIN | NO. | DATE | REVISION | BY | APVD | CRO | AGC | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | MJ GABEL | | | | | | | | |
| CHK | CA GENTRY | | | | | | | | |
| APVD | RS SHANLEY | | | | | | | | |

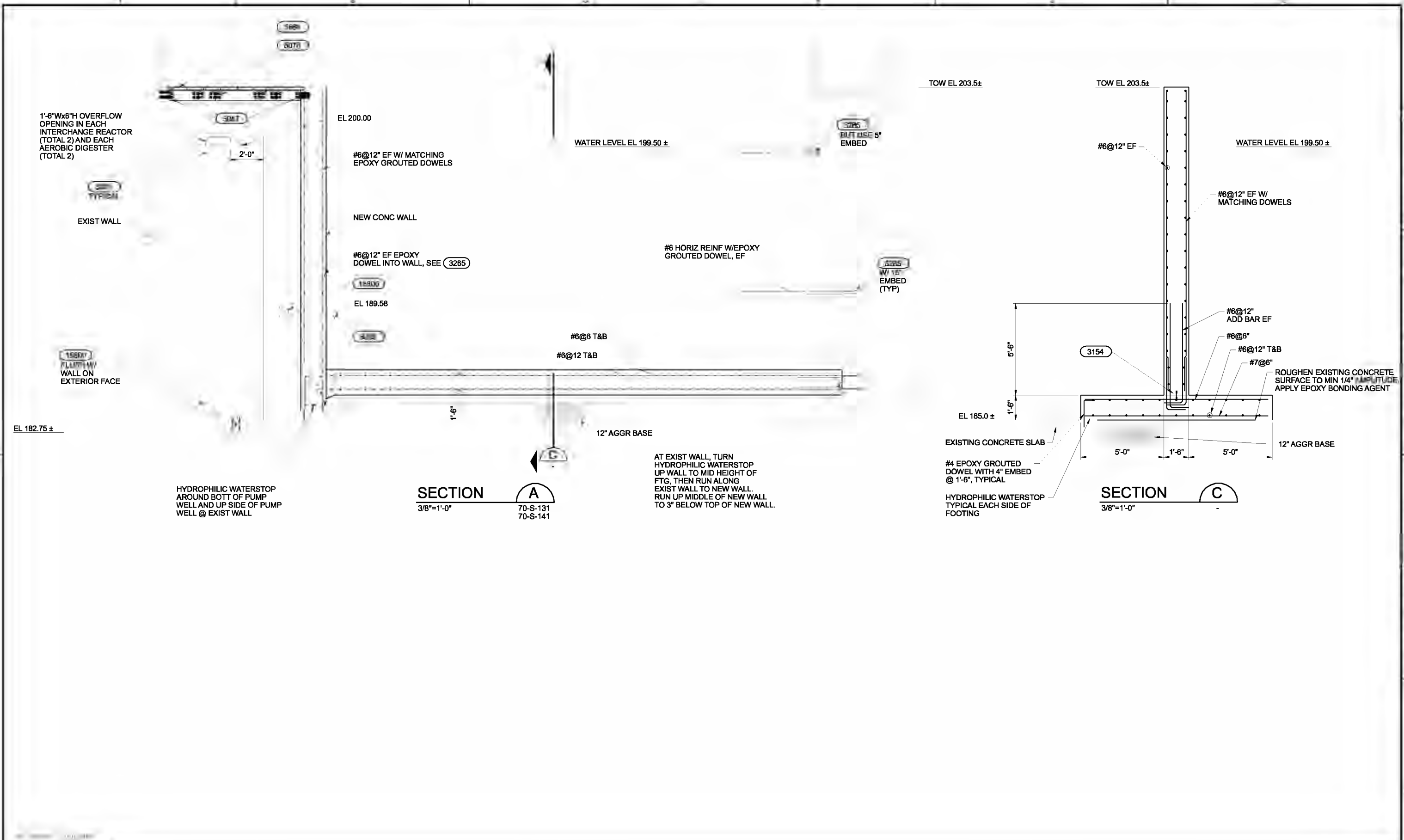
(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT



CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INTERCHANGE REACTORS/AEROBIC DIGESTERS
 UPPER LEVEL PLAN AND SECTIONS

| | |
|-------|-------------|
| SHEET | 432 |
| DWG | 70-S-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |



HYDROPHILIC WATERSTOP
AROUND BOTT OF PUMP
WELL AND UP SIDE OF PUMP
WELL @ EXIST WALL

SECTION A
3/8"=1'-0"
70-S-131
70-S-141

AT EXIST WALL, TURN
HYDROPHILIC WATERSTOP
UP WALL TO MID HEIGHT OF
FTG, THEN RUN ALONG
EXIST WALL TO NEW WALL.
RUN UP MIDDLE OF NEW WALL
TO 3" BELOW TOP OF NEW WALL.

HYDROPHILIC WATERSTOP
TYPICAL EACH SIDE OF
FOOTING

SECTION C
3/8"=1'-0"

| | | | |
|------|------------|---|--------------------|
| DSGN | KA MARTIN | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | CRO AGC BY APVD |
| DR | MJ GABEL | | |
| CHK | CA GENTRY | | |
| APVD | RS SHANLEY | | |
| NO. | DATE | REVISION | |

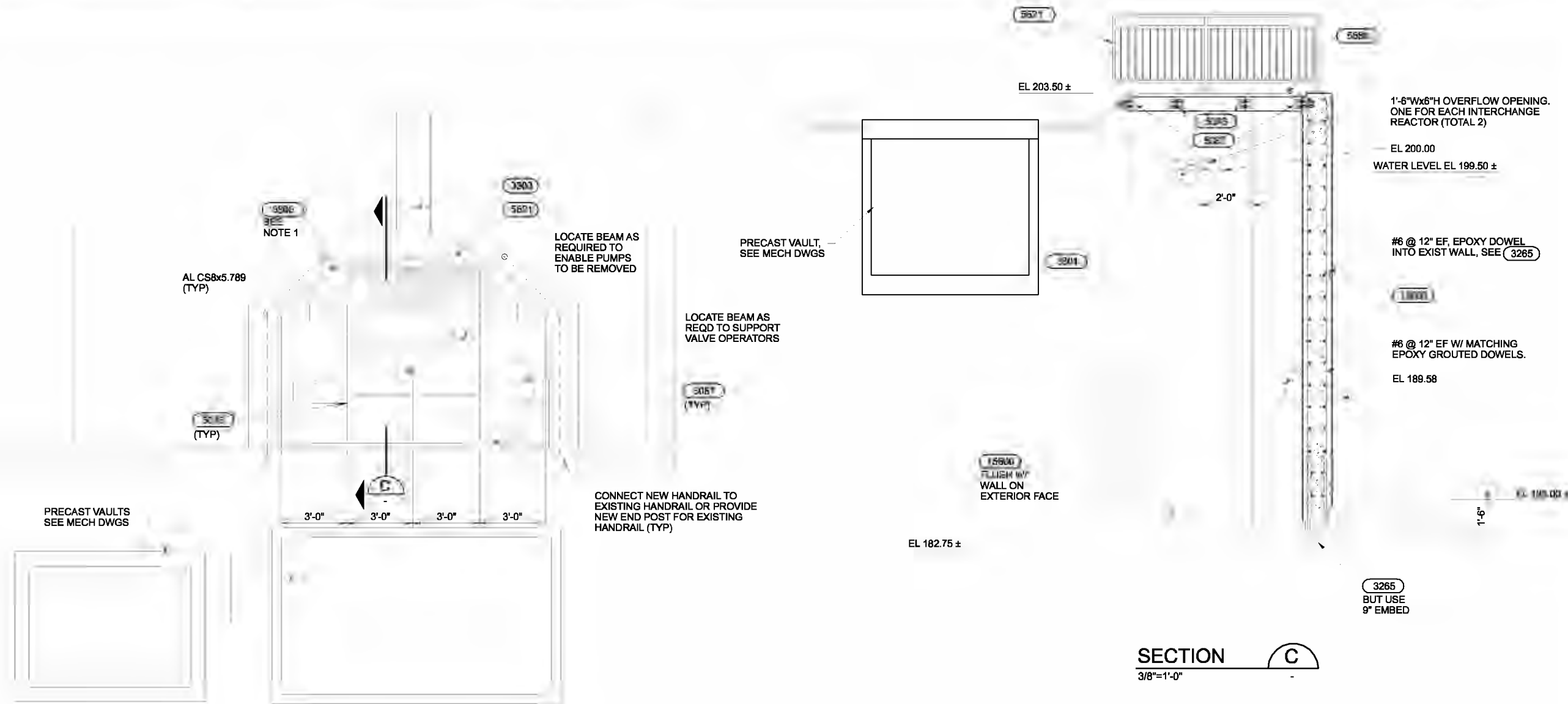
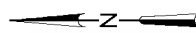
VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

| | |
|---------------------------------------|------------------|
| INTERCHANGE REACTOR/AEROBIC DIGESTERS | SHEET 433 |
| SECTIONS AND DETAILS | DWG 70-S-201 |
| | DATE MAY 19 2006 |
| | PROJ 326918 |

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NOTE:
 1. USE SUPPORT TYPE GS-1 AT NEW WALLS
 AND SUPPORT TYPE GS-3 AT EXISTING WALLS.

PARTIAL PLAN B
 3/8"=1'-0" 70-S-141

SECTION C
 3/8"=1'-0"

| | | | | | | | | | |
|------|------------|-----|------|----------|----|------|-----|-----|---|
| DSGN | KA MARTIN | NO. | DATE | REVISION | BY | APVD | CRO | AGC | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | MJ GABEL | | | | | | | | |
| CHK | CA GENTRY | | | | | | | | |
| APVD | RS SHANLEY | | | | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT



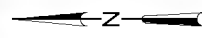
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INTERCHANGE REACTORS/AEROBIC DIGESTERS
PARTIAL PLAN, SECTIONS, AND DETAILS

| | |
|-------|-------------|
| SHEET | 434 |
| DWG | 70-S-202 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

FILENAME: 70W0301_02B15.dwg PLOT DATE: 3/20/11 PLOT TIME: 7:40:11 PM

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AL CS8x5.789 (TYP)

LOCATED BEAMS AS REQD TO SUPPORT VALVE OPERATORS

LOCATE BEAMS AS REQUIRED TO ENABLE PUMPS TO BE REMOVED

3'-0" 3'-0" 3'-0" 3'-0"

CONNECT EXISTING HANDRAIL TO NEW HANDRAIL OR PROVIDE NEW END POST FOR EXISTING HANDRAIL (TYP)

FM137 (TYP)
E521
S506
SEE NOTE 1

NOTE:
1. USE SUPPORT TYPE GS-1 AT NEW WALLS AND SUPPORT TYPE GS-3 AT EXISTING WALLS.

PARTIAL PLAN D
3/8"=1'-0" 70-S-141

EL 203.50 ±
1'-6" Wx6" H OVERFLOW OPENING. ONE FOR EACH DIGESTER (TOTAL 2)

WATER LEVEL EL 199.50 ±

#6 @ 12" EF EPOXY DOWELS INTO EXIST WALL
3265

#6 @ 12" EF W/ MATCHING EPOXY GROUTED DOWELS.

EL 185.00 ±

SEE BILT USE 9" EMBED

EL 203.50 ±

2'-0"

1500

EL 185.00

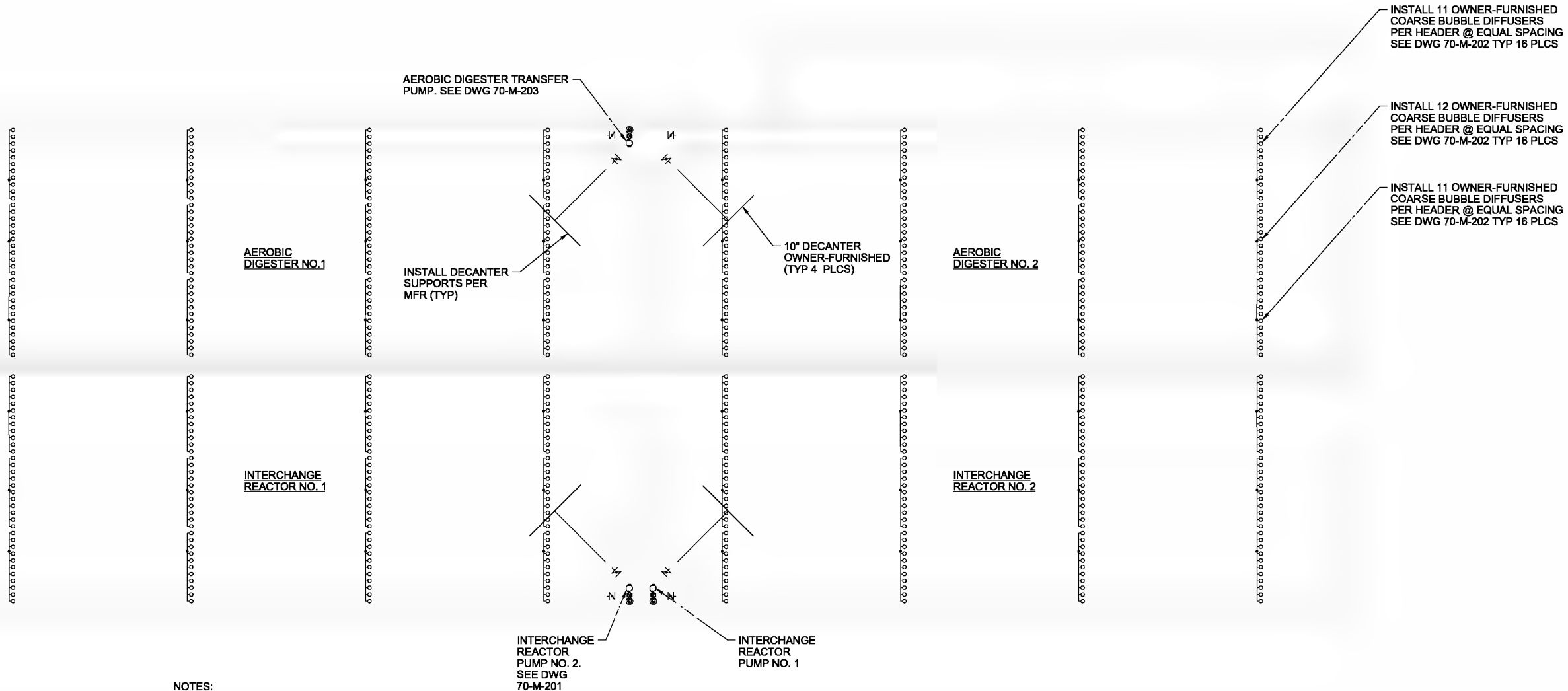
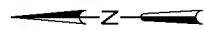
1580
FRESH W/ WALL ON EXTERIOR FACE

EL 182.75 ±

SECTION E
3/8"=1'-0"

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| | | | | | | | | | |
|--------------------|----------|----------|------------|------------|---|--|---|---|---------------------|
| DSGN KA MARTIN | NO. DATE | REVISION | CRO ACG | BY APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | | WASTEWATER SYSTEM IMPROVEMENTS PROJECT WWTP-03-01 LINN COUNTY, OREGON | INTERCHANGE REACTOR/AEROBIC DIGESTERS PARTIAL PLAN, SECTIONS AND DETAILS | SHEET 435 |
| DR ED LOGORIA | | | | | | | | | DWG 70-S-203 |
| CHK TR TEKIPPE | | | | | | | | | DATE MAY 19 2006 |
| APVD RS SHANLEY | | | | | | | | | PROJ 326918 |



NOTES:

1. ATTACH DECANT SUPPORTS TO EXISTING CONCRETE FLOOR USING 3/8" EPOXY ANCHORS WITH MAXIMUM 3" EMBEDMENT. USE GROUT BASE PLATES AS NEEDED TO PROVIDE LEVEL SURFACE.

AERATION BASIN MODIFICATION LOWER PLAN

3/32"=1'-0"

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY BRIAN W. HEMPHILL, STATE OF OREGON, P.E. NO. 9,320

| | | | | | |
|--|-------------------------|-------------|----------------|--------------|------------------|
| DESIGNED BY B. W. HEMPHILL | CHECKED BY M. J. ... | DATE ... | PROJECT ... | SCALE ... | REVISIONS ... |
| (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | | CRO | AGC | BY |

| |
|---|
| VERIFIED SCALE |
| BAR IS ONE INCH ON ORIGINAL DRAWING. 0 ——— 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |

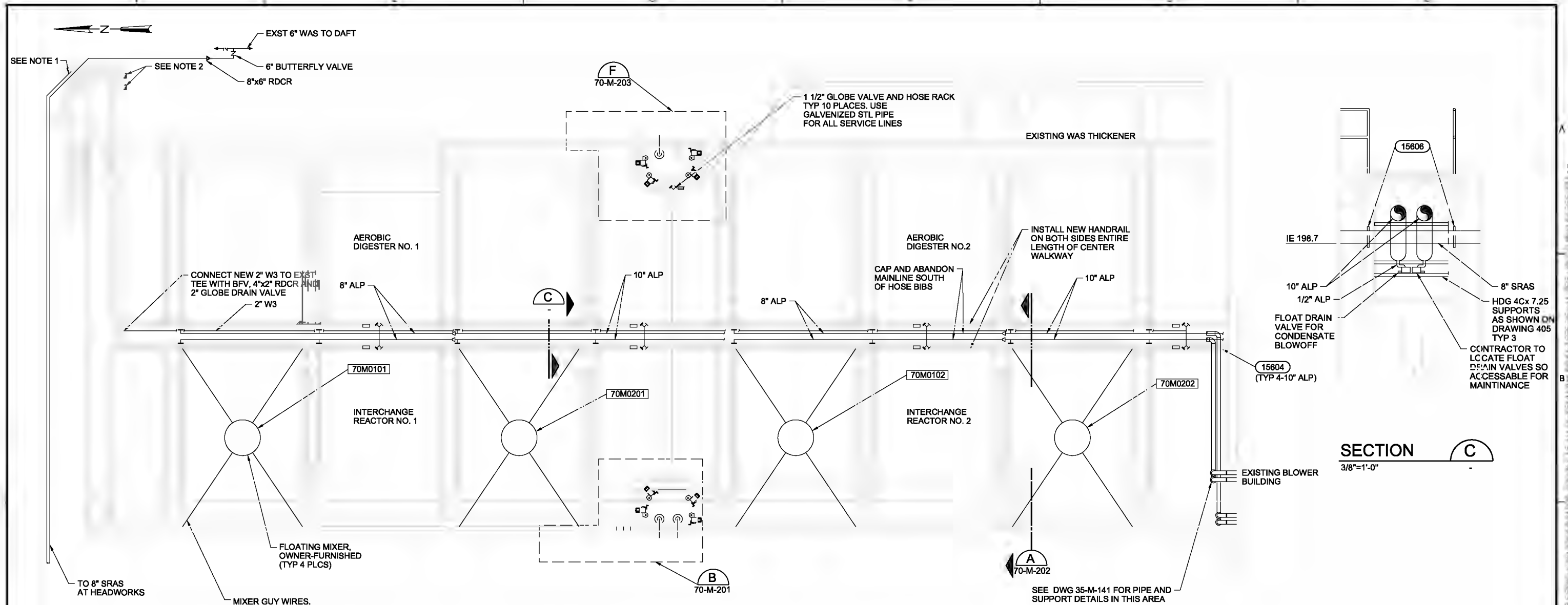


CITY OF ALBANY
SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INTERCHANGE REACTORS/AEROBIC DIGESTERS
LOWER PLAN

| | |
|-------|-------------|
| SHEET | 436 |
| DWG | 70-M-131 |
| DATE | MAY 19 2006 |
| PROJ | 326916 |

REUSE OF DOCUMENTS: CH2M HILL



AERATION BASIN MODIFICATION UPPER PLAN

3/32"=1'-0"

- NOTES:**
1. PRIOR TO START UP OF NEW AERATION BASINS, PROVIDE TEMPORARY 6" HOSE CONNECTION FROM 8" SRAS TO AEROBIC DIGESTER SHOWN ON DRAWING 20-M-132 TO TWO EXISTING BURIED 6" CIMJ WASTE SLUDGE LINES AS SHOWN IN DETAIL TEMPORARY WAS THICKENING CONNECTIONS, APPENDED HERTO. KEEP ACTIVE UNTIL DIRECTED, WHICH WILL BE AFTER THE INTERCHANGE REACTORS AND AEROBIC DIGESTERS ARE COMPLETED AND READY FOR USE. AT WHICH TIME COMPLETE THE FINAL CONNECTION OF THE 8" SRAS TO THE LINE LEADING TO THE AEROBIC DIGESTER.
 2. PRIOR TO STARTUP OF NEW AERATION BASINS, PROVIDE SUBMERSIBLE PUMP AND TEMPORARY HOSE CONNECTION FROM SUMP IN EXISTING CHAMBER TO THE EXISTING MANHOLE IN STREET APPROXIMATELY 80' NORTH, AS SHOWN IN DETAIL TEMPORARY WAS THICKENING CONNECTIONS, APPENDED HERTO. KEEP ACTIVE UNTIL DIRECTED, WHICH WILL BE AFTER THE INTERCHANGE REACTORS AND AEROBIC DIGESTERS ARE COMPLETED AND READY FOR USE. WHILE PUMP IS IN OPERATION, PROVIDE PLUGS IN TWO EXISTING LINES CONNECTING TO THE CHAMBER.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY BRIAN W. HEMPHILL, STATE OF OREGON, P.E. NO. 9,320

| | | | | | | | | | |
|------|-------------|----------|------|----------|----|-----|-----|-----|--|
| DSGR | BW HEMPHILL | | | | | | | | |
| DR | ED LONGORIA | | | | | | | | |
| CHK | TJ TRAPPE | 01/20/10 | | | | | | | |
| APV | RS SHAWLEY | NO. | DATE | REVISION | BY | APV | CRO | AGC | |

VERIFY SCALE
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

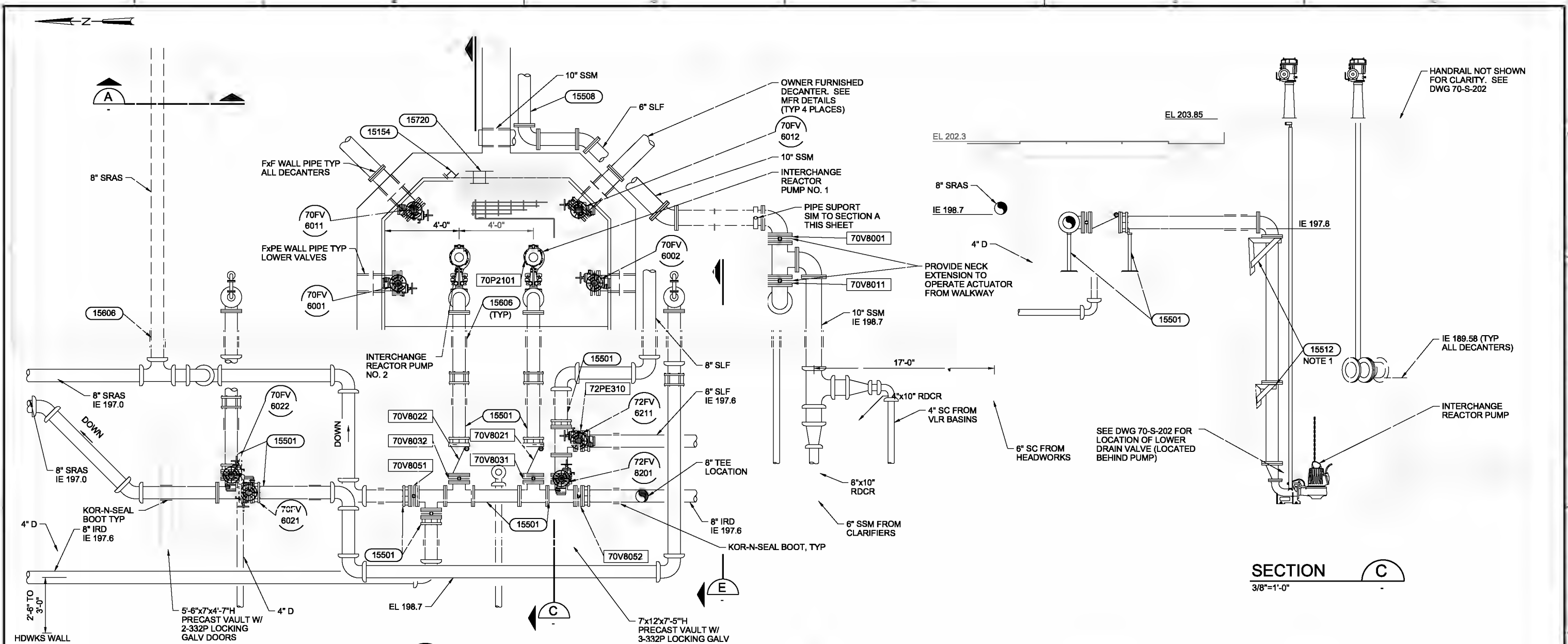


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INTERCHANGE REACTORS/AEROBIC DIGESTERS
UPPER PLAN

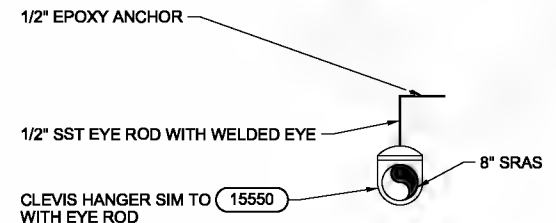
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|-------|-------------|
| SHEET | 437 |
| DWG | 70-M-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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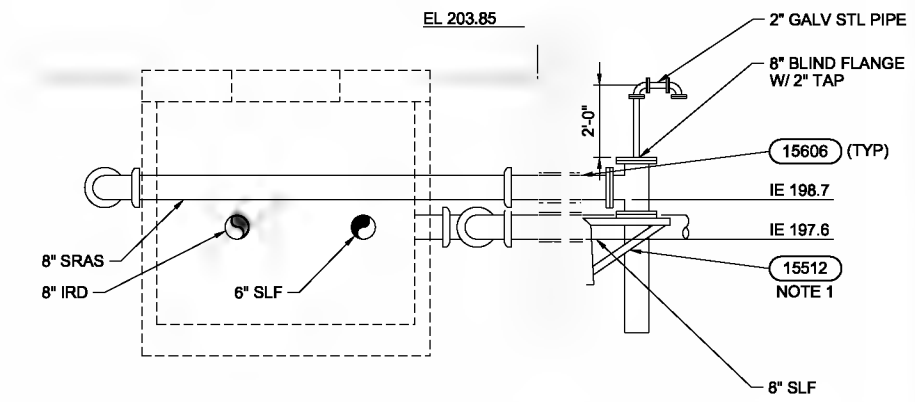


PARTIAL PLAN B
3/8"=1'-0" 70-M-141

- NOTES:**
- USE DOUBLE-NUTTING ON ANCHOR BOLT TO OBTAIN VERTICAL LEVEL. FILL VOID BETWEEN BRACKET AND WALL WITH NON-SHRINK GROUT.
 - FIELD LOCATE LADDERS AFTER PIPING IS COMPLETE.



SECTION A
3/4"=1'-0"



SECTION E
3/8"=1'-0"

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY BRIAN W. HEMPHILL, STATE OF OREGON, P.E. NO. 9,320

| | | | |
|--------|-------------|------|----------|
| DESIGN | BW HEMPHILL | DATE | 01/20/06 |
| CHK | M. GADE | NO. | |
| APV | R. SHAWLEY | DATE | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

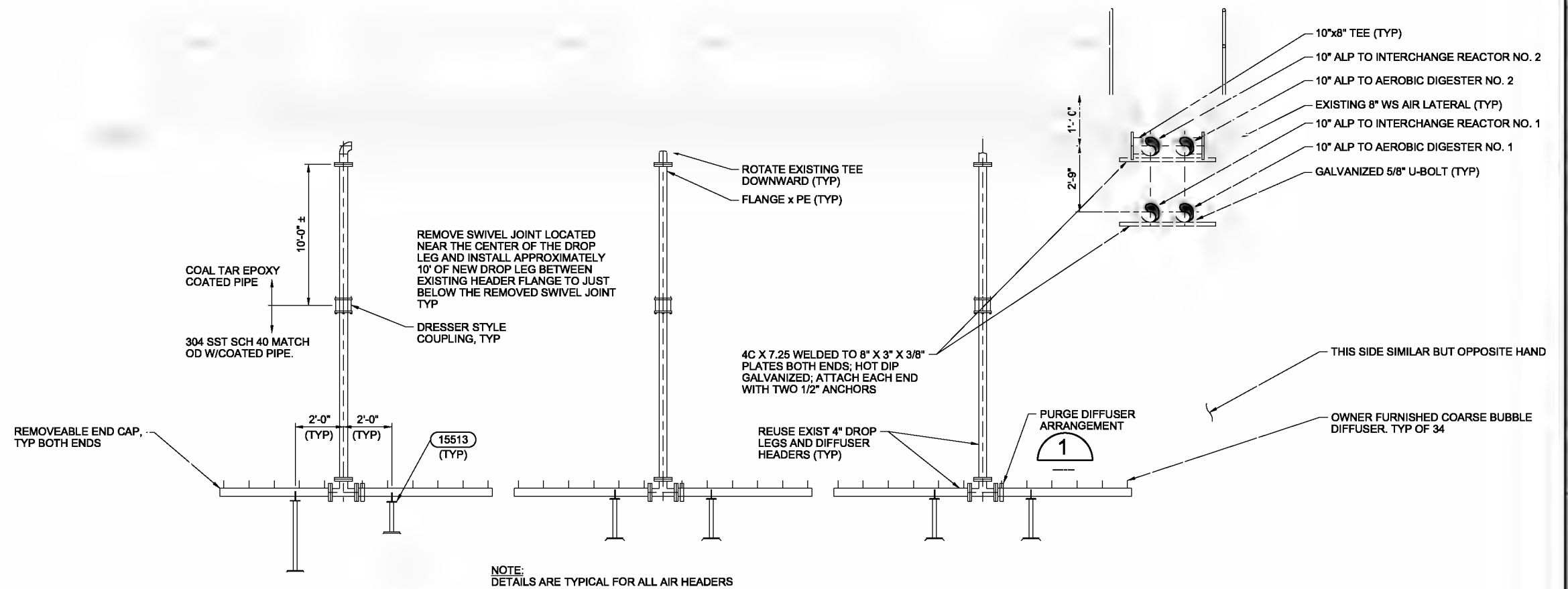


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INTERCHANGE REACTOR/AEROBIC DIGESTERS
PARTIAL PLAN AND SECTIONS

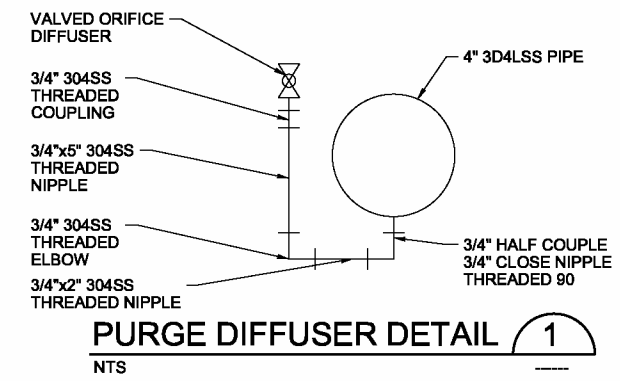
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| SHEET | 438 |
| DWG | 70-M-201 |
| DATE | MAY 19 2006 |
| PROJ | 328918 |

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NOTE:
 DETAILS ARE TYPICAL FOR ALL AIR HEADERS

SECTION A
 3/8"=1'-0" 70-M-141



THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY BRIAN W. HEMPHILL, STATE OF OREGON, P.E. NO. 9,320

| | | | | | | |
|----------------------------|---------------------------|---------------|-------------------|---------------------------|----------------------|---------------|
| DESIGNER B. W. HEMPHILL | CHECKED M. J. HEMPHILL | DATE 05/06 | SCALE AS-BUILT | PROJECT CITY OF ALBANY | BY B. W. HEMPHILL | DATE 05/06 |
|----------------------------|---------------------------|---------------|-------------------|---------------------------|----------------------|---------------|

BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

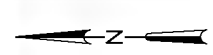


CITY OF ALBANY
 SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INTERCHANGE REACTORS/AEROBIC DIGESTERS
SECTION

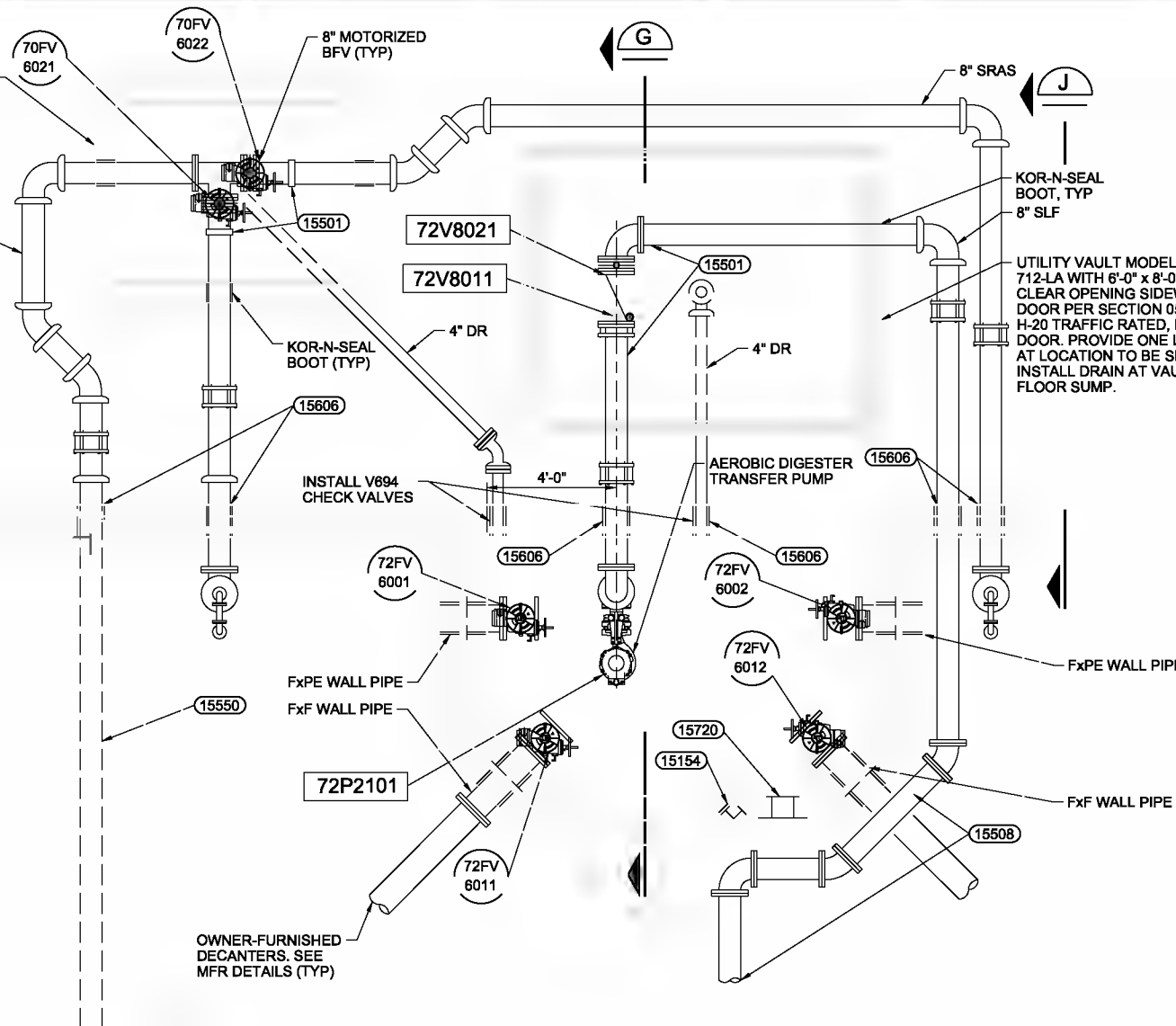
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|-------|-------------|
| SHEET | 439 |
| DWG | 70-M-202 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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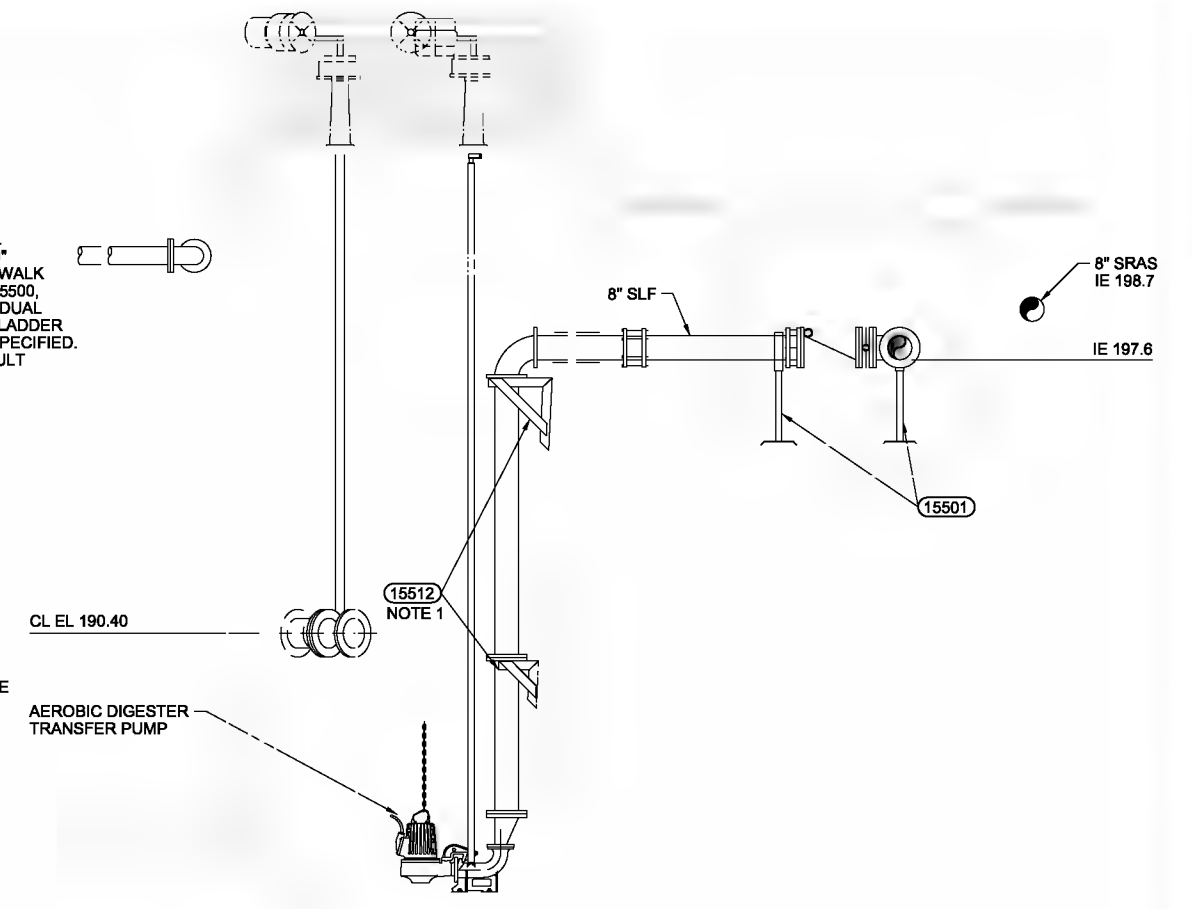
UTILITY VAULT MODEL 675-LA WITH 5'-0" x 6'-0" CLEAR OPENING SIDEWALK DOOR PER SECTION 05500, H-20 TRAFFIC RATED, DUAL DOOR. PROVIDE ONE LADDER AT LOCATION TO BE SPECIFIED. INSTALL DRAIN AT VAULT FLOOR SUMP

8" SRAS
IE 198.7



PARTIAL PLAN F
3/8"=1'-0" 70-M-141

NOTES:
1. USE DOUBLE-NUTTING ON ANCHOR BOLT TO OBTAIN VERTICAL LEVEL. FILL VOID BETWEEN BRACKET AND WALL WITH NON-SHRINK GROUT.



SECTION G
3/8"=1'-0"

SECTION J
3/8"=1'-0"

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| | | | |
|--------|--------------|------|----------|
| DESIGN | BW HEMPHILL | DATE | 01/20/10 |
| DR | M. GADE | DATE | |
| CHK | TR. THOMPSON | DATE | |
| APPV | RS SHAWLEY | DATE | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

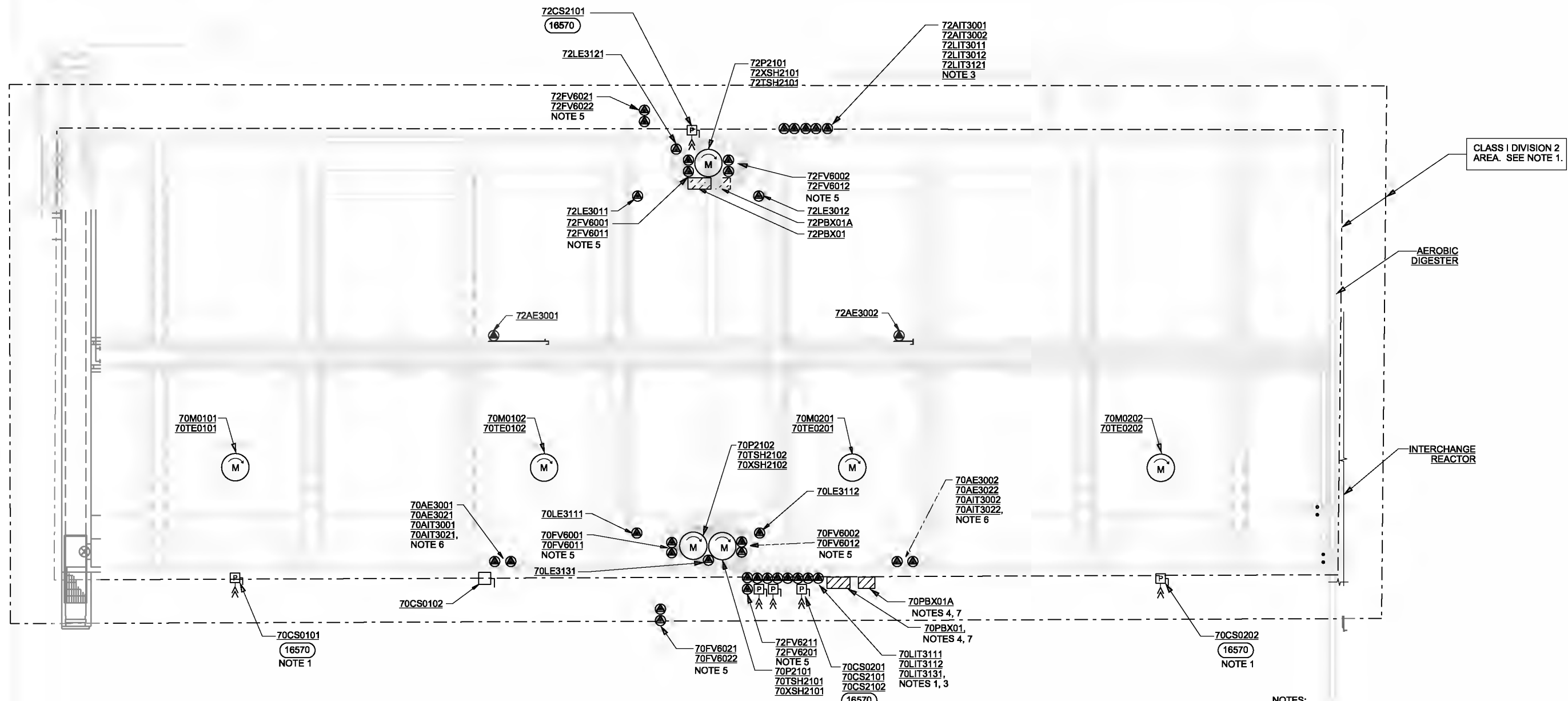
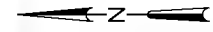


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INTERCHANGE REACTOR/AEROBIC DIGESTERS
PARTIAL PLAN AND SECTIONS

| | |
|-------|-------------|
| SHEET | 440 |
| DWG | 70-M-203 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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CLASS I DIVISION 2 AREA. SEE NOTE 1.

AEROBIC DIGESTER

INTERCHANGE REACTOR

INTERCHANGE REACTOR AND AEROBIC DIGESTER MODIFICATION PLAN
3/32"=1'-0"

- NOTES:**
1. THE STRUCTURE IS A CLASS I, DIVISION 2, GROUP D AREA WITHIN THE ENVELOPE SHOWN AND AS DESCRIBED ON 91-E-532. NOTE THAT THE ENVELOPE SPREADS TO TEN FEET AROUND THE BASINS BELOW 18 INCHES ABOVE GROUND LEVEL. ALL EQUIPMENT WITHIN THE ENVELOPE SHALL BE RATED FOR USE IN THIS AREA CLASSIFICATION AND SHALL CONFORM TO THE SPECIFICATIONS AND THE NATIONAL ELECTRIC CODE.
 2. ROUTE CIRCUITS TO EQUIPMENT AS INDICATED ON THE RISER DIAGRAMS.
 3. MOUNT TRANSMITTERS, DISCONNECTS, AND PULL BOXES OUTSIDE THE INNER CLASS I, DIVISION 2 AREA AT A HEIGHT GREATER THAN 18".
 4. SIZE PULL BOXES PER NEC. MOUNT 24 INCHES ABOVE THE TANK WALL.
 5. MOTOR RATED SWITCHES ARE REQUIRED FOR ALL VALVES PER 16500.
 6. 70AIT-3001 AND -3002 ARE PROVIDED WITH AIR BLAST UNITS. MOUNT THE UNITS ADJACENT TO THE TRANSMITTER AND USE POWER FROM THE TRANSMITTER TO ENERGIZE THE AIR BLAST UNITS.
 7. PROVIDE PVC COATED RIGID STEEL CONDUIT BETWEEN THE PULLBOXES AND THE UNDERGROUND HORIZONTAL PVC CONDUIT RUN. PROVIDE PVC COATED RIGID STEEL ELBOWS WHERE THE CONDUITS STUB UP.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY GREG DEBOIS STATE OF OREGON, P.E. NO. 77,671

| | | | | | |
|------|------------|----------|------|----------|----|
| DSGR | DR RODGERS | | | | |
| DR | RE GAVE | | | | |
| CHK | GILLESPIE | 01/20/10 | | | |
| APVD | RS SHAWLEY | NO. | DATE | REVISION | BY |

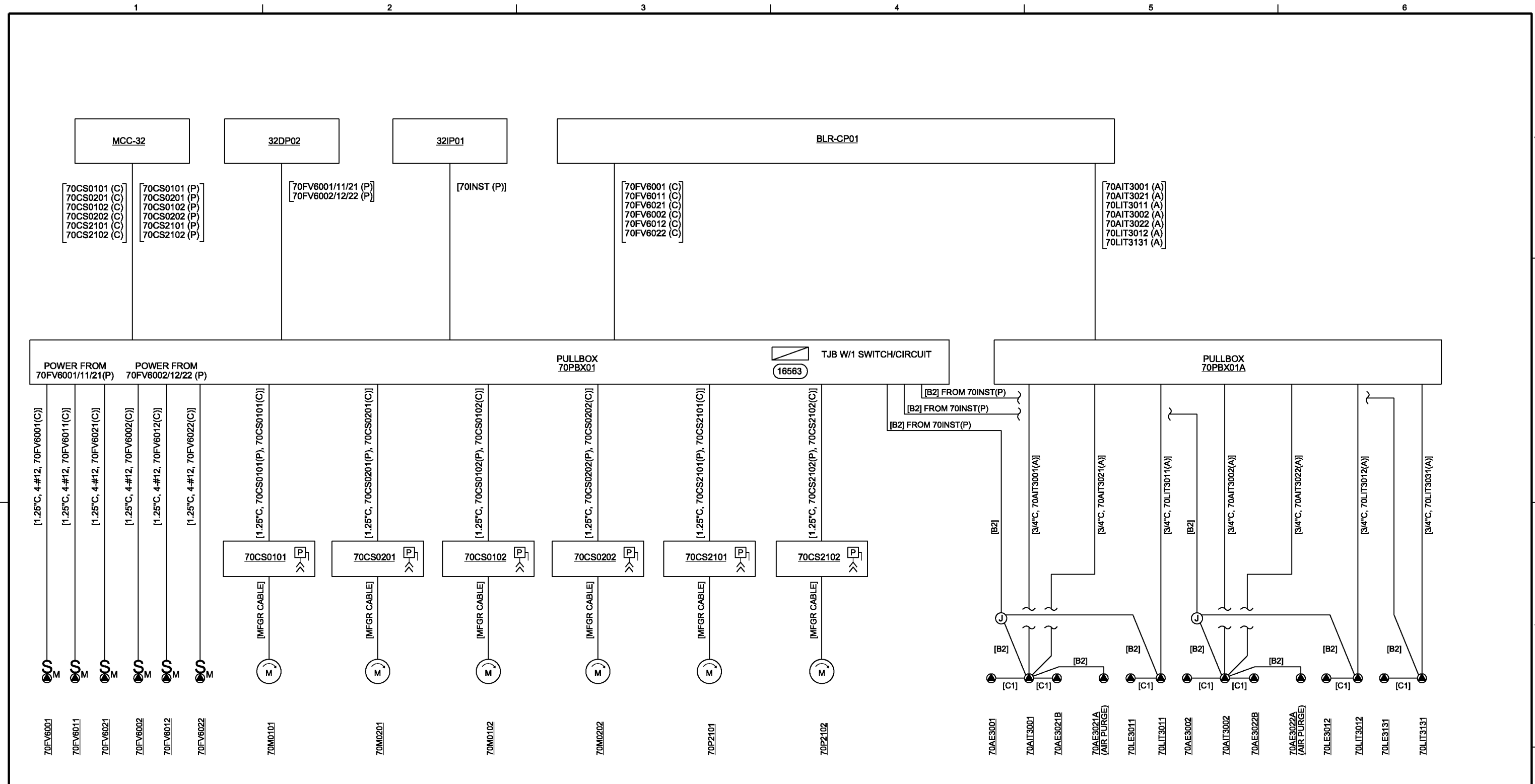
VERIFY SCALE
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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

| | | | |
|--|--|-------|-------------|
| INTERCHANGE REACTORS/AEROBIC DIGESTERS | | SHEET | 441 |
| ELECTRICAL PROCESS AND FACILITY PLANS | | DWG | 70-E-141 |
| | | DATE | MAY 19 2006 |
| | | PROJ | 326918 |

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INTERCHANGE REACTORS RISER DIAGRAM

- NOTES:**
- REFER TO SITE ROUTED CONDUIT SCHEDULE FOR CONDUIT SIZE AND ROUTING OF CIRCUITS FROM PULLBOX TO PANELS LOCATED INSIDE THE ELECTRICAL ROOM.

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| | | | | | |
|------|------------|----------|------|----------|---------|
| DSGN | BR RODGERS | | | | |
| DR | RB CAVE | | | | |
| CHK | GJ DeBOIS | 01/20/10 | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY APVD |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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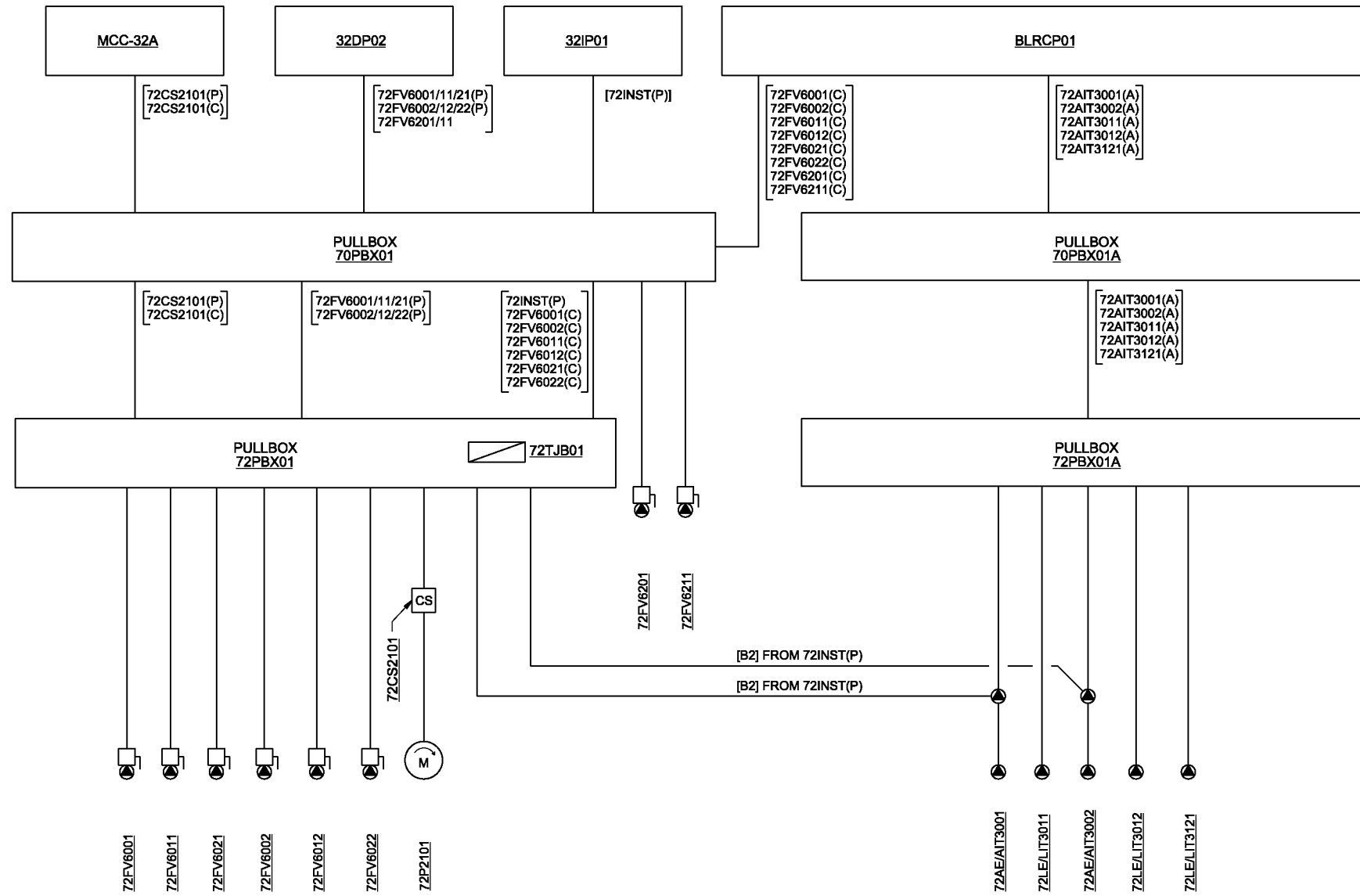


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INTERCHANGE REACTORS/AEROBIC DIGESTERS
INTERCHANGE REACTOR RISER DIAGRAM

| | |
|-------|-------------|
| SHEET | 442 |
| DWG | 70-E-501 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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AEROBIC DIGESTERS RISER DIAGRAM

NOTES:

- REFER TO SITE ROUTED CONDUIT SCHEDULE FOR CONDUIT SIZE AND ROUTING OF CIRCUITS FROM PULLBOX TO PANELS LOCATED INSIDE THE ELECTRICAL ROOM.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY GREG DEBOIS STATE OF OREGON, P.E. NO. 77,671

| | | | | | | | | | |
|------|------------|----------|------|----------|----|------|--|--|--|
| DSGN | BR RODGERS | | | | | | | | |
| DR | RB CAVE | | | | | | | | |
| CHK | GJ DeBOIS | 01/20/10 | | | | | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY | APVD | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
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0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

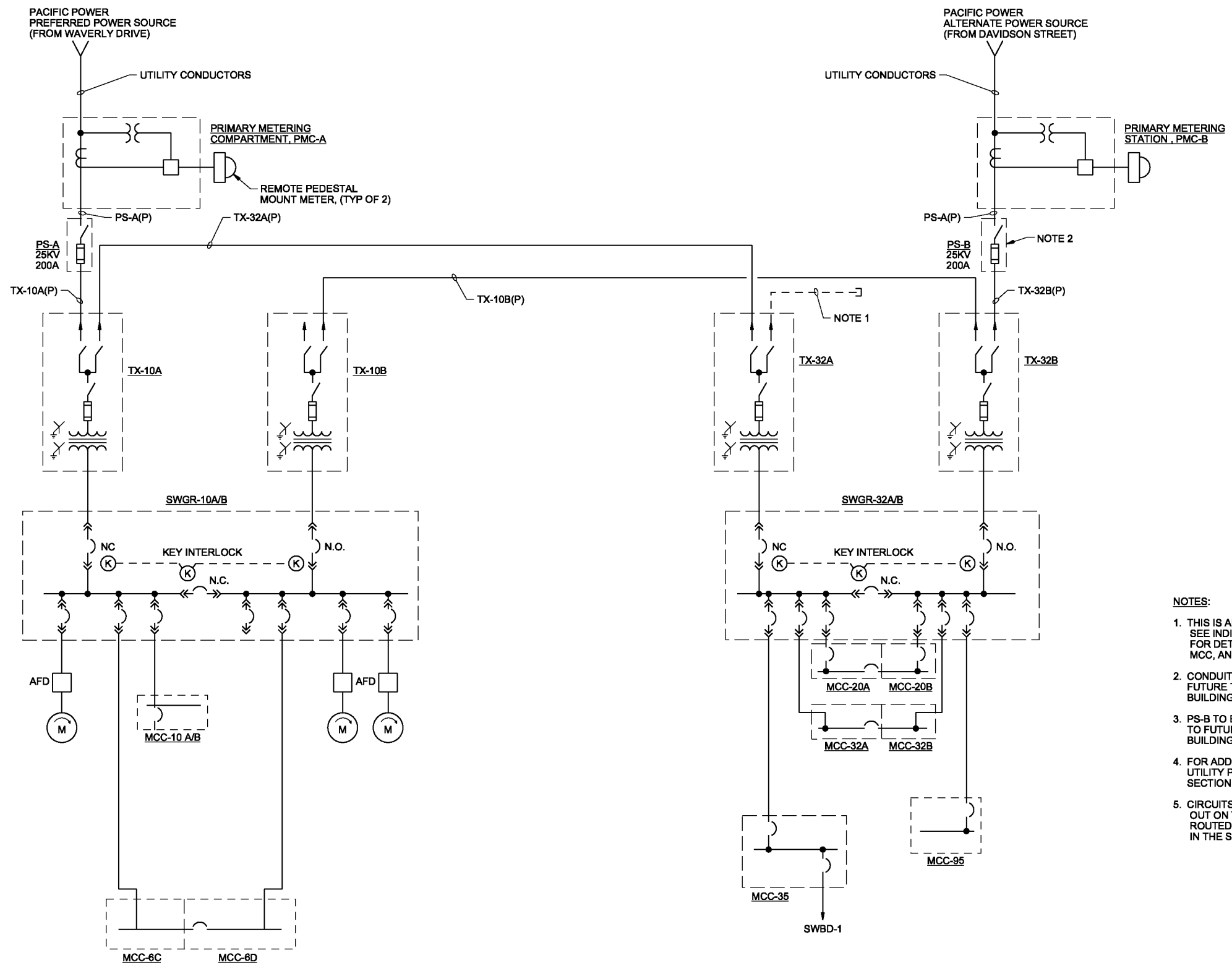


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INTERCHANGE REACTORS/AEROBIC DIGESTERS
AEROBIC DIGESTER RISER DIAGRAM

| | |
|-------|-------------|
| SHEET | 443 |
| DWG | 70-E-502 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
1. THIS IS AN OVERALL PLANT ONE-LINE DIAGRAM. SEE INDIVIDUAL EQUIPMENT ONE-LINE DIAGRAMS FOR DETAILED REQUIREMENTS FOR EACH SWGR, MCC, AND TRANSFORMER.
 2. CONDUITS ROUTED TO HH-HV-7 FOR CONNECTION TO FUTURE TRANSFORMER FOR AERATION BLOWER BUILDING NO. 2.
 3. PS-B TO BE MODIFIED OR REPLACED FOR CONNECTION TO FUTURE TRANSFORMER FOR AERATION BLOWER BUILDING NO. 2.
 4. FOR ADDITIONAL INFORMATION RELATED TO THE UTILITY POWER SUPPLIES, SEE SPECIFICATION SECTION 16400, ELECTRICAL SERVICE REQUIREMENTS.
 5. CIRCUITS BETWEEN MAJOR EQUIPMENT CALLED OUT ON THIS DRAWING ARE DEFINED IN THE SITE ROUTED CIRCUIT SCHEDULE AND ROUTED IN THE SITE ROUTED CONDUIT SCHEDULE.

OVERALL PLANT ONE-LINE DIAGRAM

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KANDIL MAESTRI, STATE OF OREGON, P.E. NO. 53785PE

| | | | | | | | | | |
|------|------------|----------|------|----------|----|------|--|--|--|
| DSGN | KL MAESTRI | | | | | | | | |
| DR | GJ LOVE | | | | | | | | |
| CHK | JB MAURAS | 01/20/10 | | | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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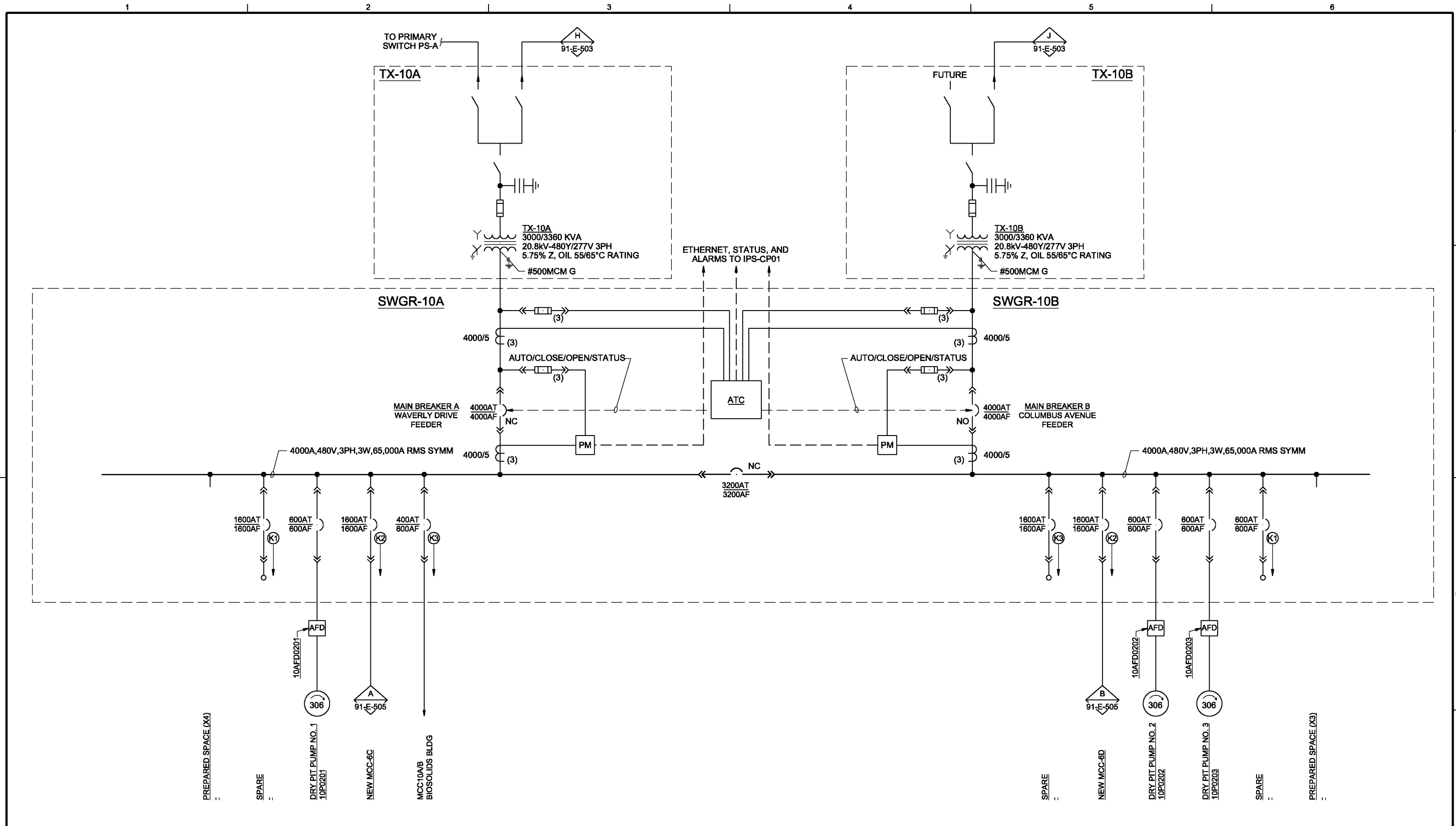


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

ELECTRICAL
OVERALL ONE-LINE DIAGRAM

| | |
|-------|-------------|
| SHEET | 444 |
| DWG | 91-E-501 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

REUSE OF DOCUMENTS: CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.



- NOTES:
1. CHANGE LOCK ON TIE BREAKER FOR SWBD-2 TO MATCH NEW LOCKS.
 2. CHANGE NAMEPLATES ON SWBD-2 FOR MOTORS THAT WILL BE REMOVED. NEW NAMEPLATES SHALL READ 'SPARE'.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY GREG BEBOIS STATE OF OREGON, P.E. NO. 77671.

| | | | | | | | |
|------|------------|----------|------|----------|----|------|--|
| DSGN | BR RODGERS | | | | | | |
| DR | BR RODGERS | | | | | | |
| CHK | G.J DeBOIS | 01/20/10 | | | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY | APVD | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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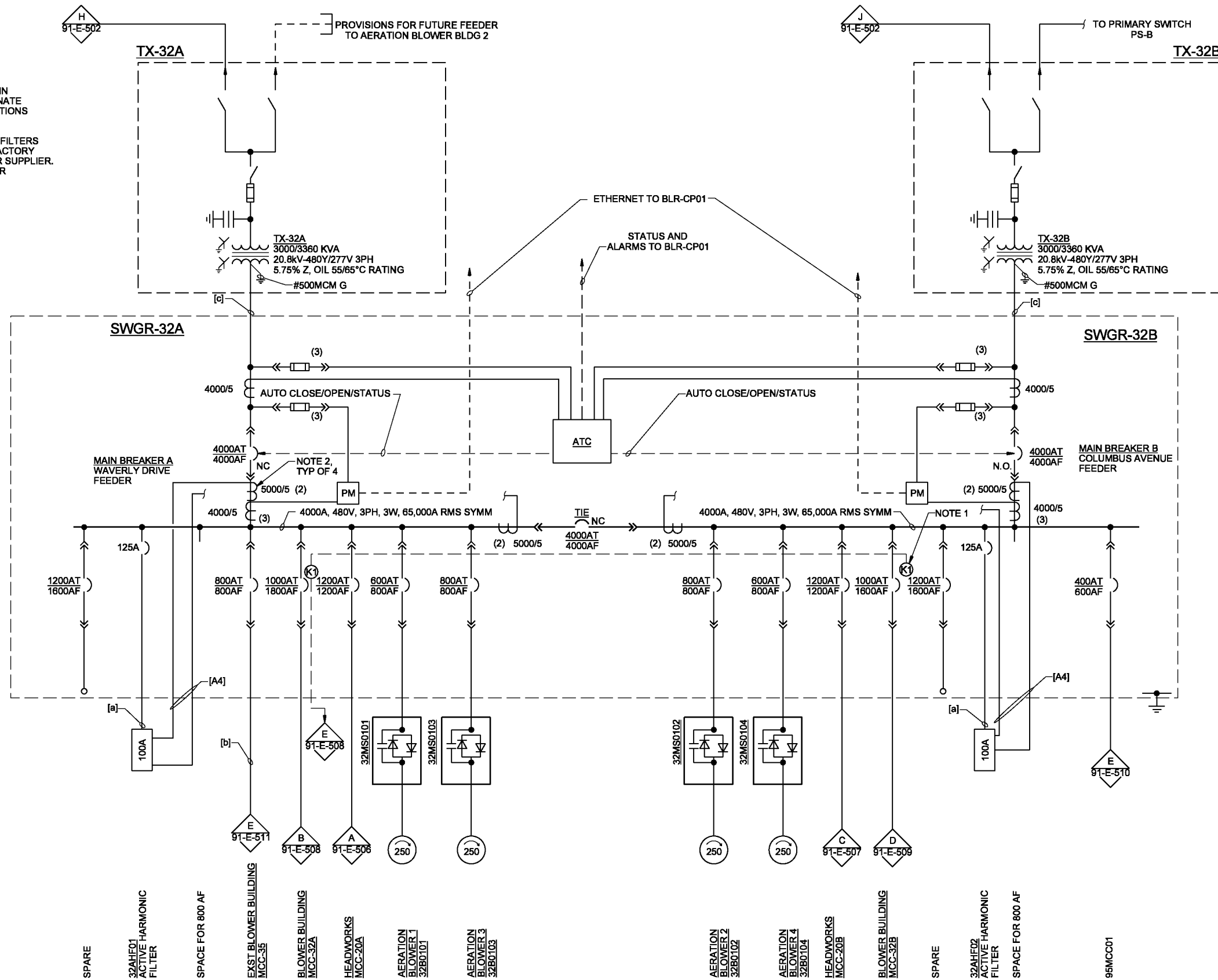
CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

ELECTRICAL
 SWGR-10A/B
 ONE-LINE DIAGRAM

| | |
|-------|-------------|
| SHEET | 445 |
| DWG | 91-E-502 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
1. KEY INTERLOCK, 3 LOCKS, 2 KEYS. OTHER LOCK IS IN MCC-32A. SWITCH GEAR MANUFACTURER TO COORDINATE LOCK W/ MCC SUPPLIER. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 2. CURRENT TRANSFORMERS FOR ACTIVE HARMONIC FILTERS TO BE PROVIDED BY FILTER SUPPLIER CTs TO BE FACTORY INSTALLED AT LOCATION RECOMMENDED BY FILTER SUPPLIER. SEE SECTION 16282, ACTIVE HARMONIC FILTERS FOR ADDITIONAL INFORMATION.



SWITCHGEAR SWGR-32A/B ONE-LINE DIAGRAM
(AT AERATION BLOWER BUILDING)

CIRCUIT CALLOUTS:
(THIS DRAWING ONLY)

[a]=[1 1/2", 3#1/0, 1#4G]

[b]=SWBD-1(P1), SWBD-1(P2)
AND SWBD-1(P3) PER SITE
ROUTED CIRCUIT SCHEDULE

[c]=11-1/4", 3-500MCM, 1#500MCMGJEA

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| | | | | | | | | | |
|------|------------|----------|------|----------|----|------|--|--|--|
| DSGN | KL MAESTRI | | | | | | | | |
| DR | GJ LOVE | | | | | | | | |
| CHK | JB MAURAS | 01/20/10 | | | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | | | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

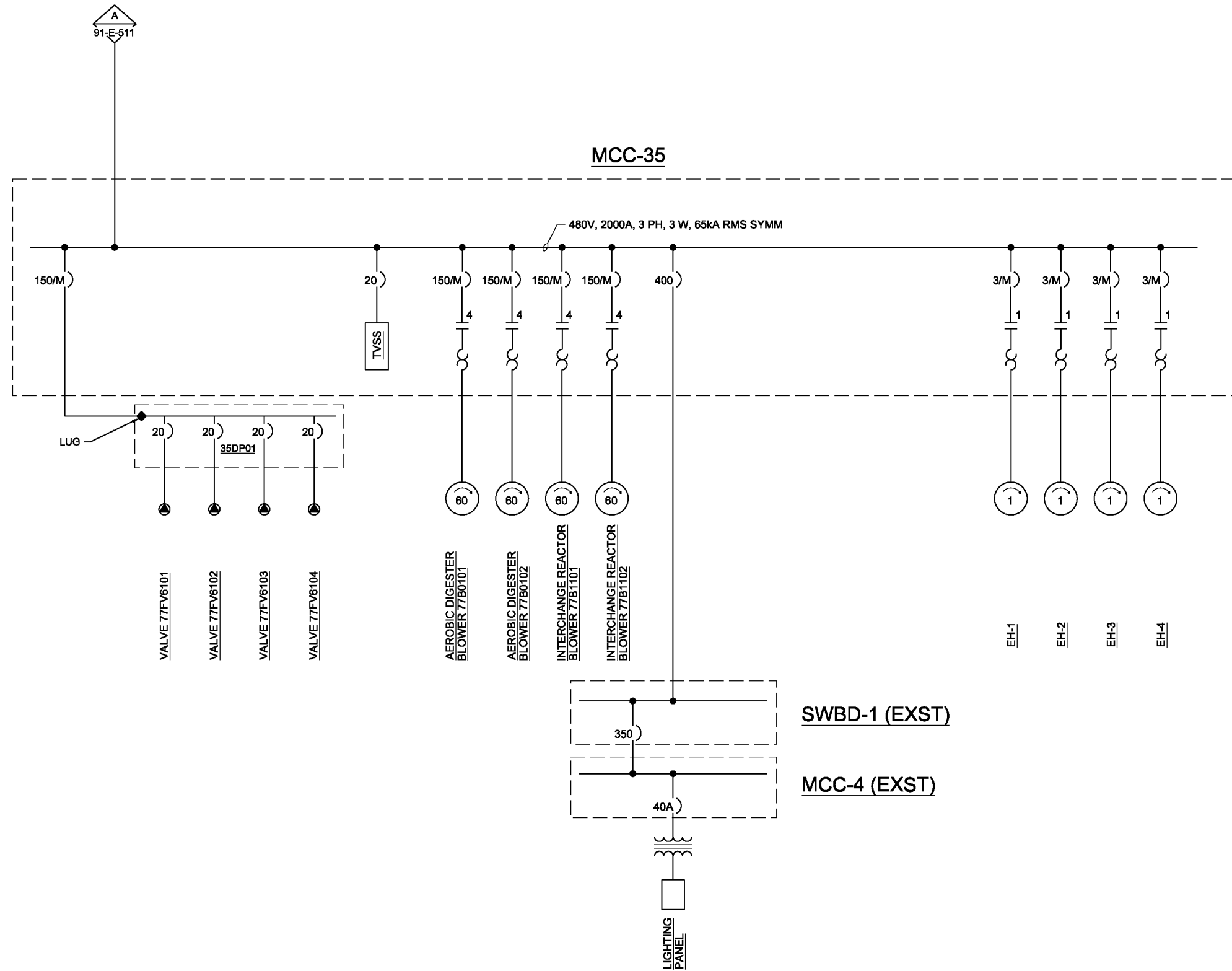


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

ELECTRICAL
SWGR-32A/B ONE-LINE DIAGRAM

| | |
|-------|-------------|
| SHEET | 446 |
| DWG | 91-E-503 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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| | | | | | | | |
|------|------------|----------|------|----------|----|------|--|
| DSGN | BR RODGERS | | | | | | |
| DR | BR RODGERS | | | | | | |
| CHK | G.J DeBOIS | 01/20/10 | | | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY | APVD | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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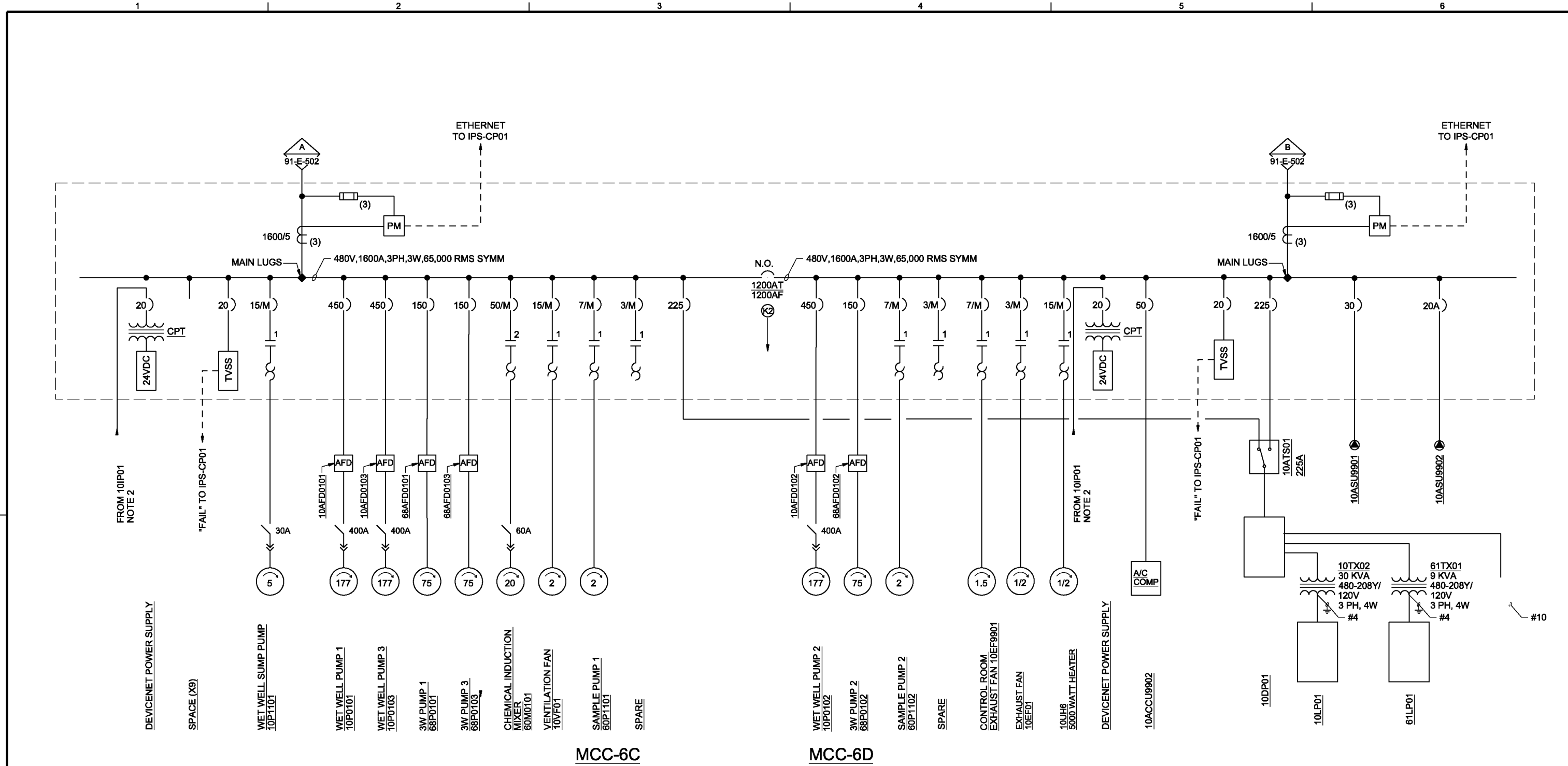


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

ELECTRICAL
 MCC-1A MODIFICATIONS AND SWITCHBOARD 1
 ONE-LINE DIAGRAM

| | |
|-------|-------------|
| SHEET | 447 |
| DWG | 91-E-504 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOTES:

- SEE RISER DIAGRAMS FOR CIRCUITING REQUIREMENTS.
- 120V POWER SUPPLY FROM UPS POWER SOURCE.

MCC-6C

MCC-6D

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| | | | | | | | | | |
|------|------------|----------|------|----------|----|------|--|--|--|
| DSGN | BR RODGERS | | | | | | | | |
| DR | BR RODGERS | | | | | | | | |
| CHK | GJ DeBOIS | 01/20/10 | | | | | | | |
| APVD | RS SHANLEY | NO. | DATE | REVISION | BY | APVD | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

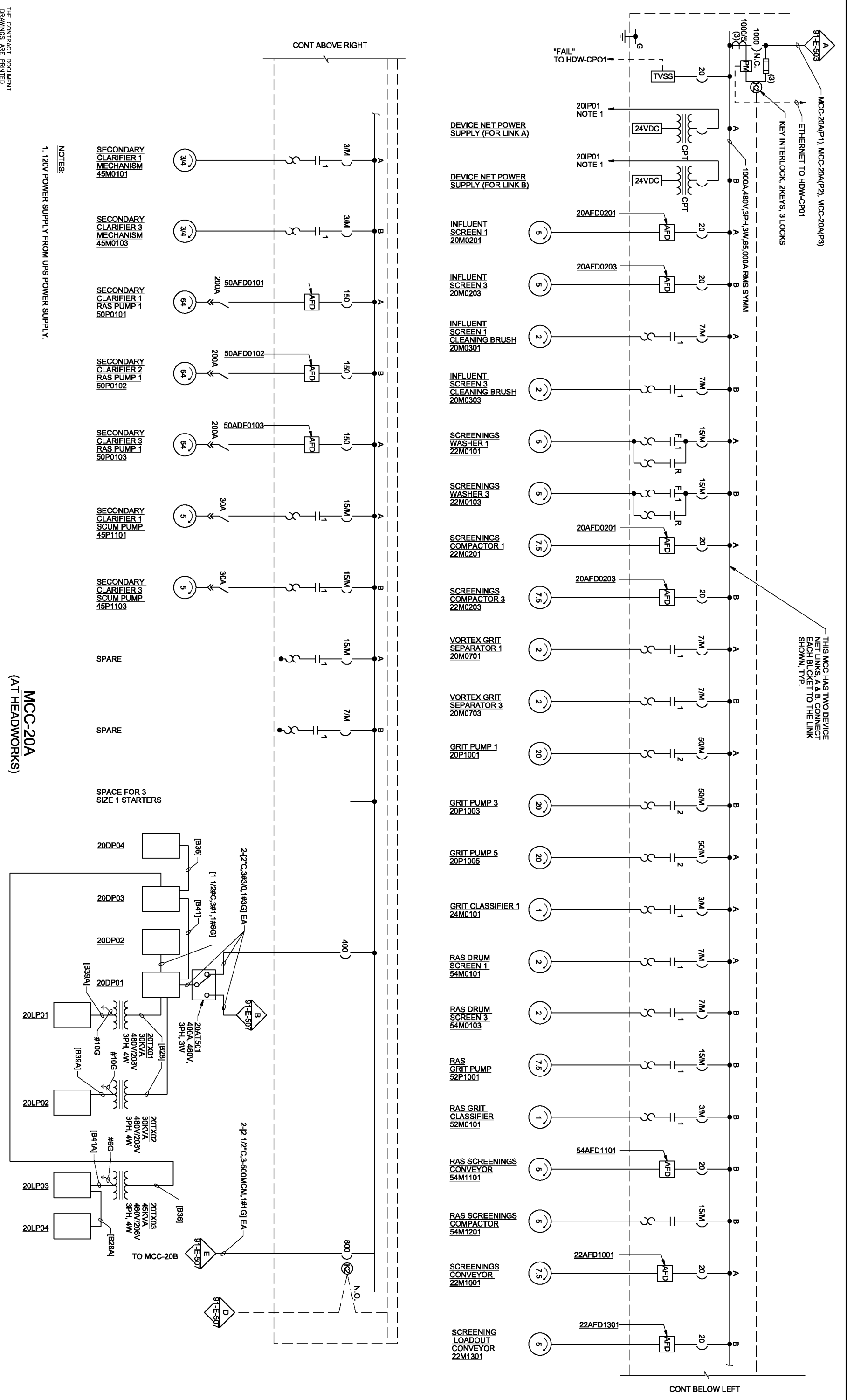


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

ELECTRICAL
 MCC-6C/D
 ONE-LINE DIAGRAM

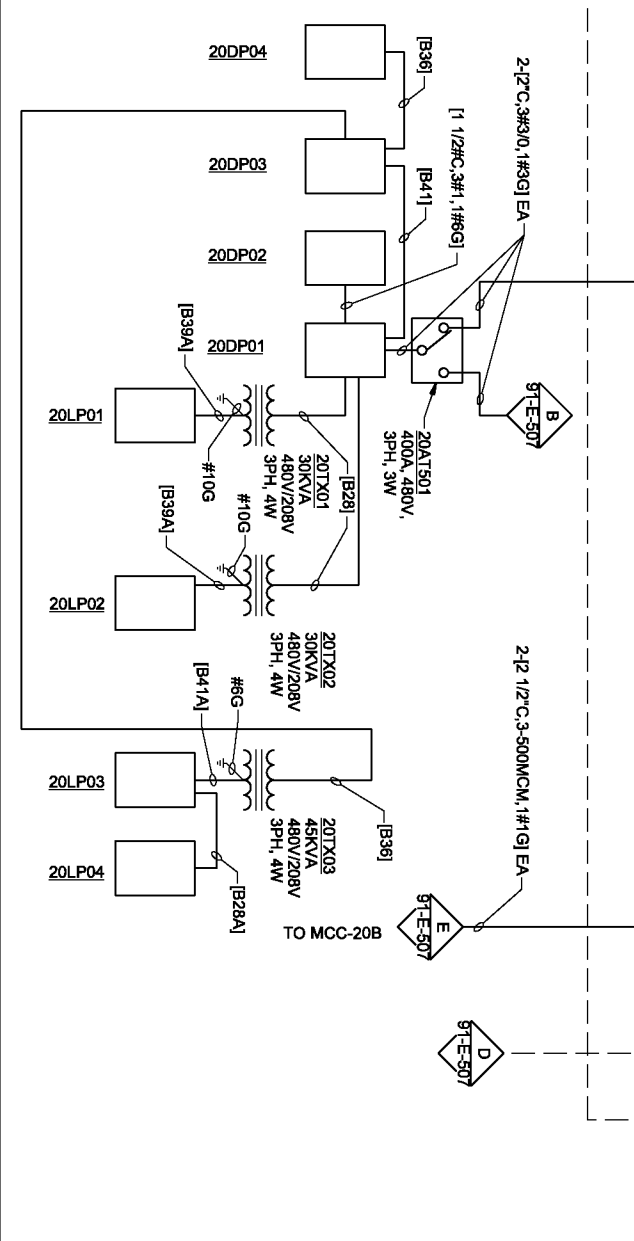
| | |
|-------|-------------|
| SHEET | 448 |
| DWG | 91-E-505 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

REUSE OF DOCUMENTS: CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.

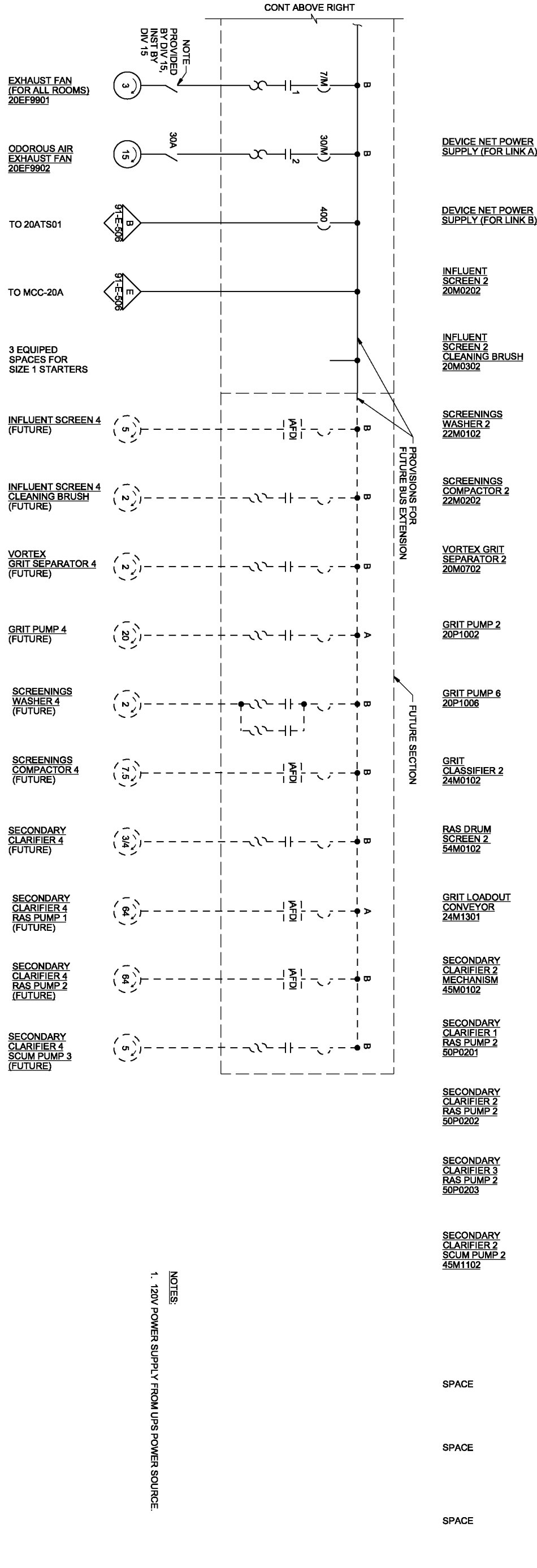
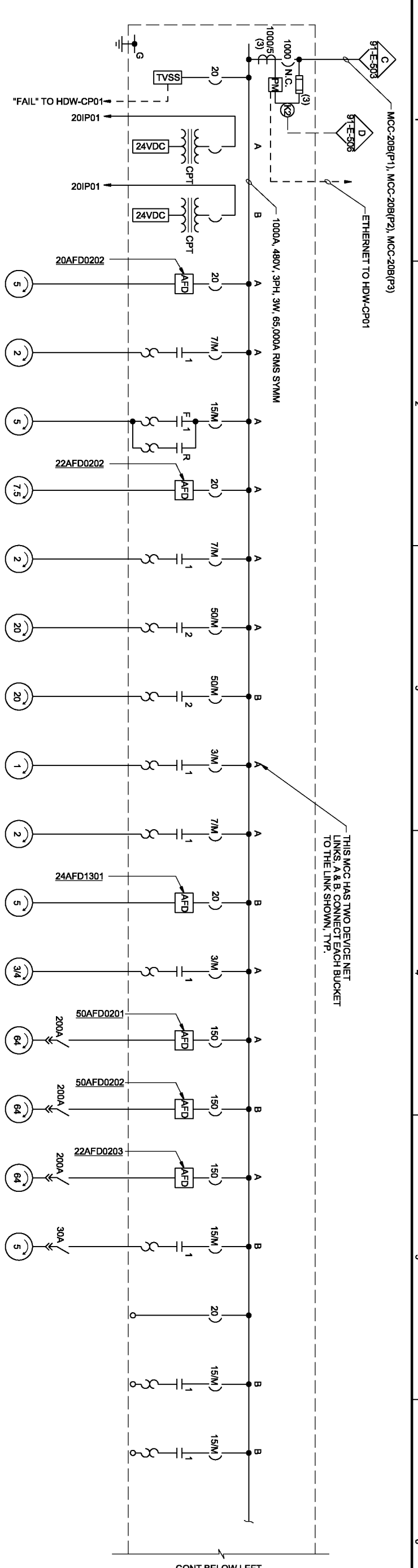


NOTES:
1. 120V POWER SUPPLY FROM UPS POWER SUPPLY.

MCC-20A
(AT HEADWORKS)



| | | | | | | | | | | | |
|--|------------|---|--|---------------------|----------|---|--|--------------|-----|---|--|
| THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED FROM THE ORIGINAL DRAWING. THE SCOPE, EXTENT AND CHARACTER OF THE WORK, THE ORIGINAL DOCUMENT AND SIGNED 05/05 BY OF KANAWANDA PROJECT NO. 53789PE OREGON, P.E. NO. 53789PE | | NO. | | DATE | | REVISION | | BY | | APVD | |
| DRSGN | KI MAESTRI | NO. | | DATE | 01/20/10 | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | GRW | KLM | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY. | |
| CHK | JL LOUVE | CH2MHILL CAROLLO ENGINEERS | | | | | | | | | |
| APVD | JB MAURAS | WASTEWATER SYSTEM IMPROVEMENTS PROJECT CITY OF ALBANY LINN COUNTY, OREGON | | | | | | | | | |
| CW MASSIE | | MCC-20A ONE-LINE DIAGRAM ELECTRICAL | | | | | | | | | |
| FILENAME: 91ms06d_328918.dgn | | PLOT DATE: 5/17/2010 | | PLOT TIME: 1:349 PM | | SHEET 449 | | DWG 91-E-506 | | DATE MAY 19 2006 | |
| PROJ 328918 | | | | | | | | | | | |



NOTES:
1. 120V POWER SUPPLY FROM UPS POWER SOURCE.

MCC-20B
(AT HEADWORKS)

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED ON THE SCOPE, EXTENT AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT AND SIGNED 05/05 BY OF OREGON, P.E. NO. 53789PCE

| | | | | | | | |
|-------|------------|-----|------|----------|----|------|-----------|
| DRSGN | KI MAESTRI | NO. | DATE | REVISION | BY | APVD | CM MASSIE |
| DR | GILLOVE | NO. | DATE | REVISION | BY | APVD | CM MASSIE |
| CHK | JB MAURAS | NO. | DATE | REVISION | BY | APVD | CM MASSIE |
| APVD | CM MASSIE | NO. | DATE | REVISION | BY | APVD | CM MASSIE |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)

VERIFY SCALE
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CH2MHILL CAROLO ENGINEERS

WASTEWATER SYSTEM IMPROVEMENTS PROJECT
LINN COUNTY, OREGON

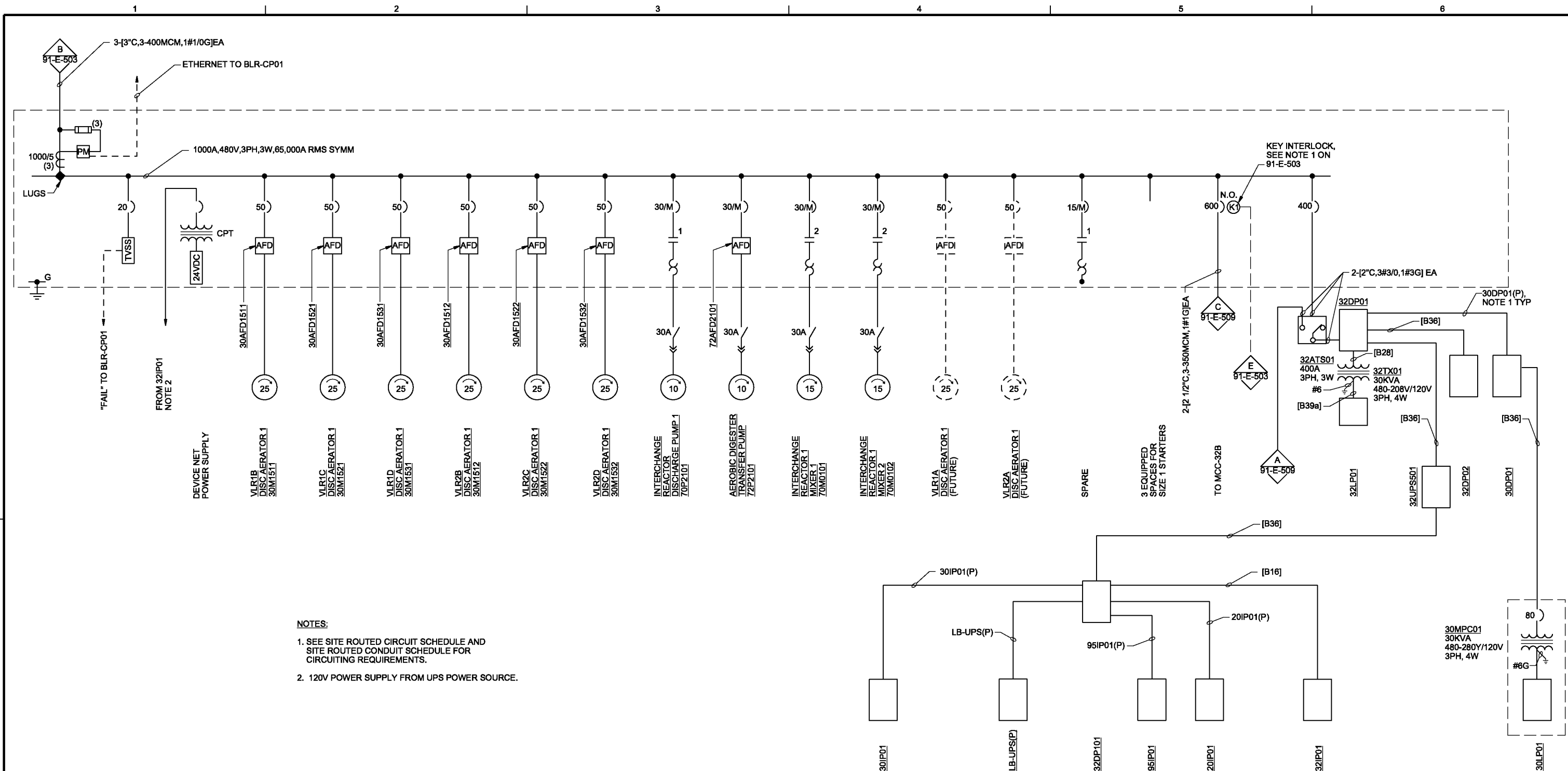
CITY OF ALBANY

ELECTRICAL

MCC-20B ONE-LINE DIAGRAM

FILENAME: 91ms07d_328918.dgn PLOT DATE: 5/11/2010 PLOT TIME: 1:42:22 PM

SHEET 450
DWG 91-E-507
DATE MAY 19 2006
PROJ 328918



- NOTES:
- SEE SITE Routed CIRCUIT SCHEDULE AND SITE Routed CONDUIT SCHEDULE FOR CIRCUITING REQUIREMENTS.
 - 120V POWER SUPPLY FROM UPS POWER SOURCE.

MCC-32A
(AT AERATION BLOWER BUILDING)

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KANDIL MAESTRI, STATE OF OREGON, P.E. NO. 53785PE

| | | | | | | | |
|------|------------|----------|------|----------|----|------|--|
| DSGN | KL MAESTRI | | | | | | |
| DR | GJ LOVE | | | | | | |
| CHK | JB MAURAS | 01/20/10 | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

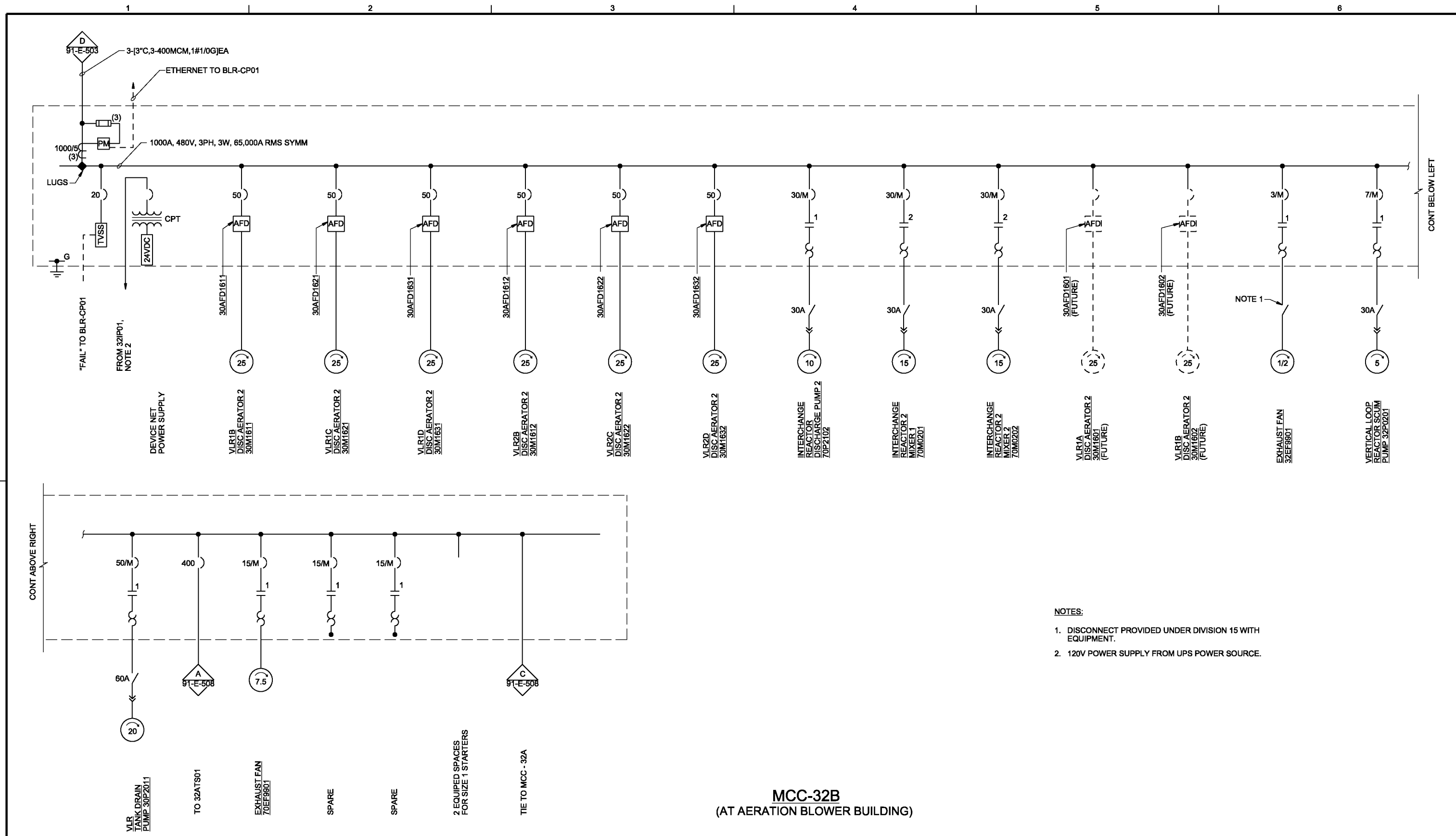


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

ELECTRICAL
MCC-32A ONE-LINE DIAGRAM

| | |
|-------|-------------|
| SHEET | 451 |
| DWG | 91-E-508 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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MCC-32B
(AT AERATION BLOWER BUILDING)

- NOTES:**
- DISCONNECT PROVIDED UNDER DIVISION 15 WITH EQUIPMENT.
 - 120V POWER SUPPLY FROM UPS POWER SOURCE.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KANDIL MAESTRI, STATE OF OREGON, P.E. NO. 53785PE

| | | | | | | | |
|------|------------|-----|------|----------|----|------|---|
| DSGN | KL MAESTRI | NO. | DATE | REVISION | BY | APVD | VERIFY SCALE |
| DR | GJ LOVE | | | | | | BAR IS ONE INCH ON ORIGINAL DRAWING. |
| CHK | JB MAURAS | | | | | | 0 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| APVD | CW MASSIE | | | | | | |

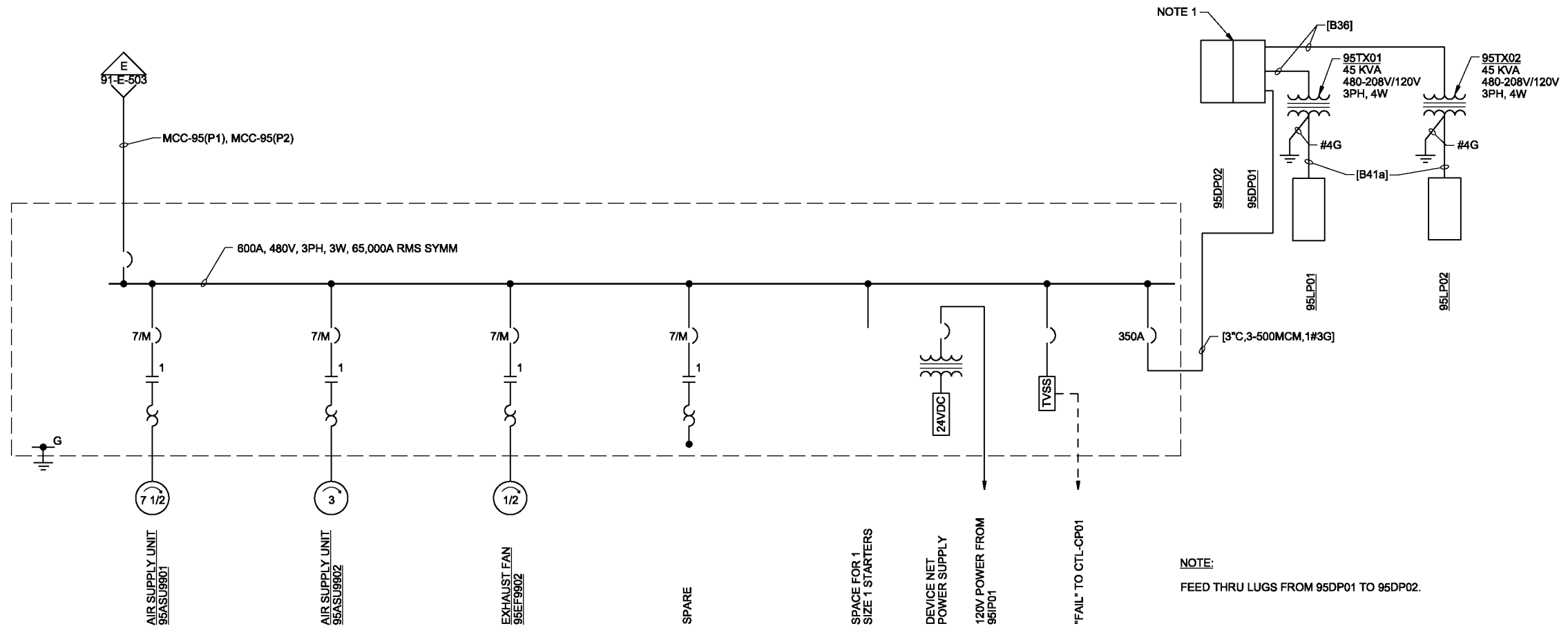


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

ELECTRICAL
MCC-32B ONE-LINE DIAGRAM

| | |
|-------|-------------|
| SHEET | 452 |
| DWG | 91-E-509 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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MCC-95
(AT CONTROL BUILDING)

NOTE:
FEED THRU LUGS FROM 95DP01 TO 95DP02.

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| | | | | | | | |
|------|------------|--|-----|------|----------|----|------|
| DSGN | KL MAESTRI | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | NO. | DATE | REVISION | BY | APVD |
| DR | GJ LOVE | | | | | | |
| CHK | JB MAURAS | | | | | | |
| APVD | CW MASSIE | | | | | | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

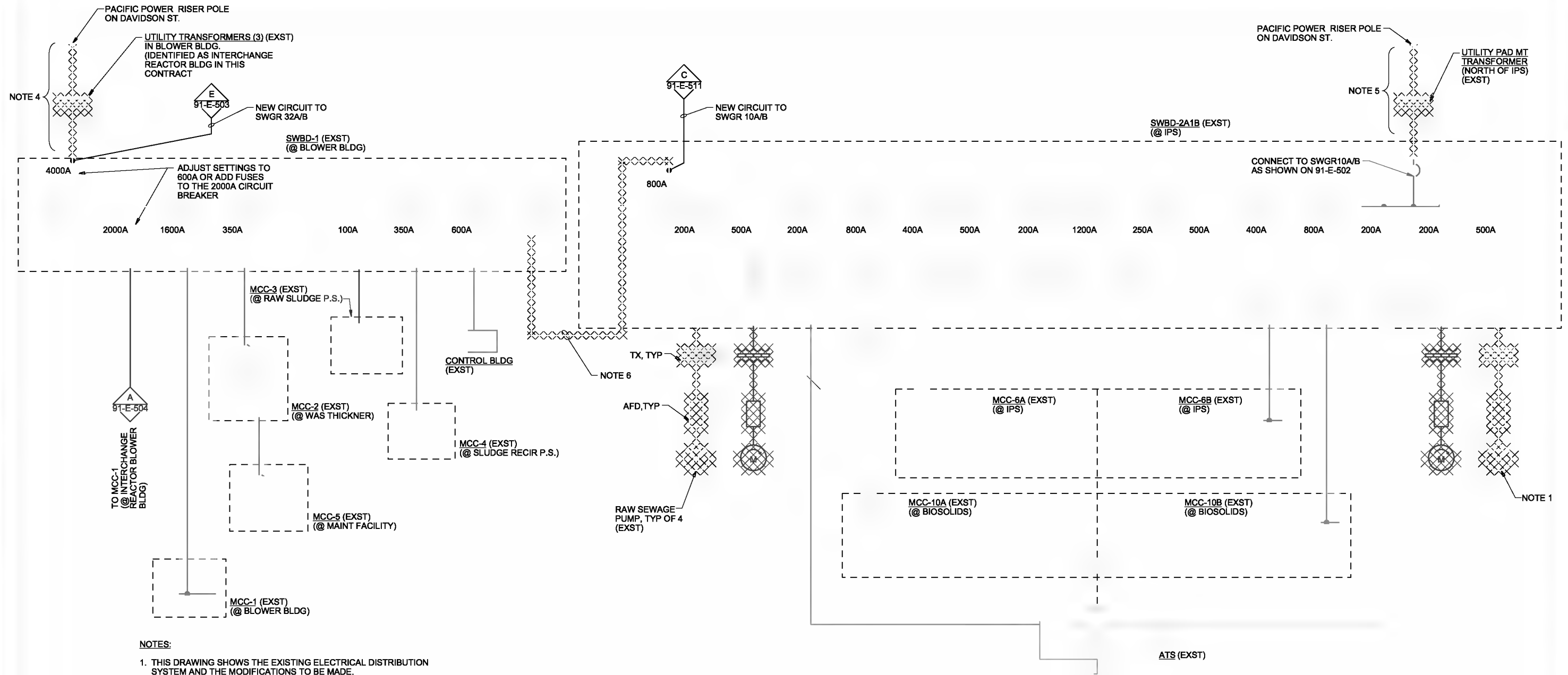


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

ELECTRICAL
MCC-95 ONE-LINE DIAGRAM

| | |
|-------|-------------|
| SHEET | 453 |
| DWG | 91-E-510 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOTES:

1. THIS DRAWING SHOWS THE EXISTING ELECTRICAL DISTRIBUTION SYSTEM AND THE MODIFICATIONS TO BE MADE.
2. THIS DRAWING SHALL BE USED FOR THE COORDINATION STUDY AS SPECIFIED IN SECTION 16015, ELECTRICAL SYSTEM ANALYSIS. CONTRACTOR TO VERIFY BREAKER SIZES, FEEDER SIZES AND RATINGS OF EXISTING EQUIPMENT. ENGINEER TO PROVIDE EXPECTED LUMP SUM LOAD ON EACH MOTOR CONTROL CENTER POST CONSTRUCTION OF THIS PROJECT.
3. RAW SEWAGE PUMPS, AFDS, TRANSFORMERS AND ASSOCIATED CIRCUITING TO BE REMOVED AS DESCRIBED ON 10-D-131, 10-D-141, 10-E-131 AND 10-E-141.
4. POWER SERVICE FROM DAVIDSON STREET FEEDER TO BE REMOVED AS DESCRIBED IN SPECIFICATION SECTION 16400, ELECTRICAL SERVICE REQUIREMENTS.
5. POWER SERVICE FROM WAVERY DRIVE FEEDER TO BE REMOVED AS DESCRIBED IN SPECIFICATION SECTION 16400, ELECTRICAL SERVICE REQUIREMENTS.
6. REDUNDANT SUPPLY FEEDER FOR THE INFLUENT PUMP STATION TO BE REMOVED AS SHOWN ON 05-ED-100 AND AS DESCRIBED IN SPECIFICATION SECTION 01050, CONSTRUCTION SEQUENCING.

EXISTING PLANT ONE-LINE DIAGRAM

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KANDIL MAESTRI, STATE OF OREGON, P.E. NO. 53785PE

| | | | |
|----------------|-------------|-----------------|---------------|
| BY: MAESTRI | DATE: 05/06 | SCALE: AS-BUILT | VER. P. NO. 1 |
| CHKD: MAESTRI | DATE: 05/06 | SCALE: AS-BUILT | VER. P. NO. 1 |
| APP'D: MAESTRI | DATE: 05/06 | SCALE: AS-BUILT | VER. P. NO. 1 |

VER. P. NO. 1
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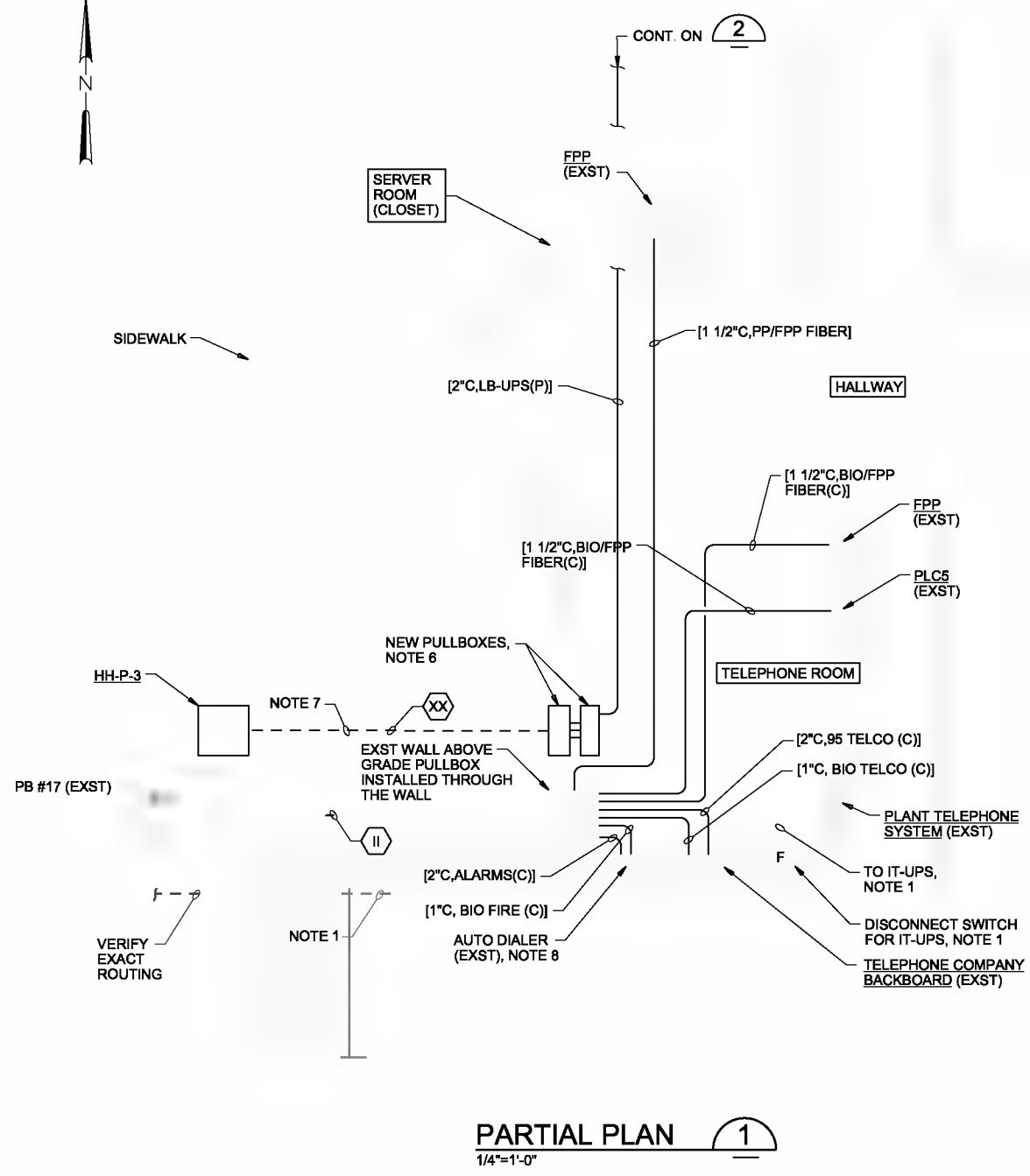
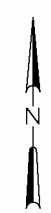
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

ELECTRICAL
EXISTING PLANT
ONE LINE DIAGRAM

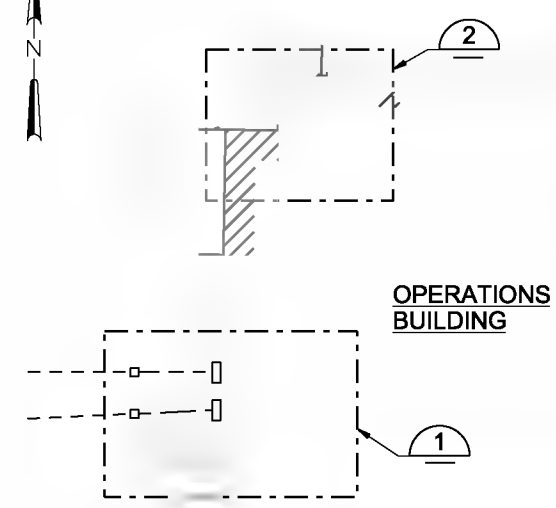
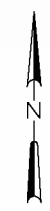
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|-------|-------------|
| SHEET | 454 |
| DWG | 91-E-511 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN AS AN AWARD OF PROFESSIONAL SERVICE IS THE PROPERTY OF CH2M HILL. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED IN THE WRITTEN AUTHORIZATION OF CH2M HILL.



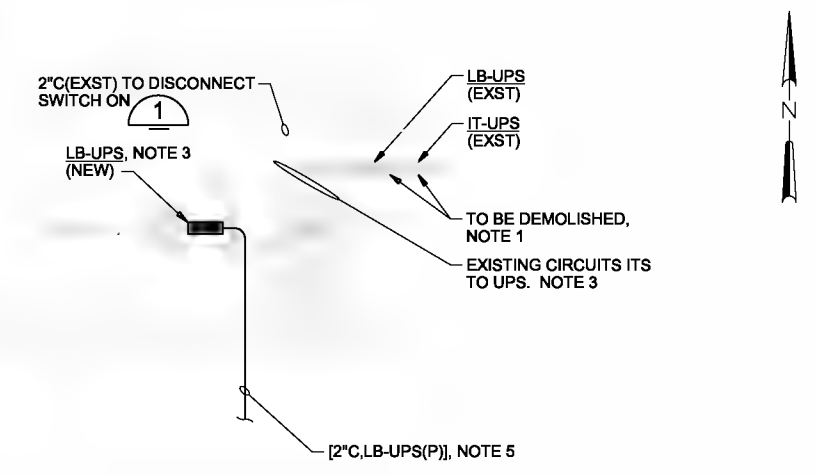
PARTIAL PLAN 1
1/4"=1'-0"



OPERATIONS BUILDING KEY PLAN

NOTES:

1. DEMOLISH EXISTING DISCONNECT SWITCH, PANELBOARD LB-UPS(EXST), IT-UPS AND FEEDER BETWEEN LB-UPS (EXST) AND IT-UPS. REMOVE FEEDER CONDUCTORS FROM IT-UPS TO UPS LOCATED IN THE INTERCHANGE REACTOR BLOWER BUILDING. CAP SPARE CONDUITS.
2. FIELD VERIFY LOCATIONS OF EXISTING EQUIPMENT.
3. INSTALL NEW PANELBOARD LB-UPS IN LOCATION SHOWN. REROUTE EXISTING CIRCUITS FROM THE EXISTING PANELBOARD TO THE NEW PANELBOARD.
4. SWITCHOVER OF CIRCUITS TO NEW PANELBOARD SHALL BE DONE AT THE END OF MILESTONE A WHEN BOTH 32UPS01 AND THE EXISTING UPS ARE BOTH ON LINE. (THE EXISTING UPS IS LOCATED IN THE INTERCHANGE REACTOR BLOWER BUILDING). TIMING OF SWITCHOVER SHALL BE COORDINATED WITH OWNER TO ENSURE MINIMUM INTERRUPTION TO EXISTING SERVICES. PROVIDE AT LEAST 5 WORKING DAYS NOTICE PRIOR TO SCHEDULING THE WORK.
5. FIELD ROUTE CONDUIT IN THE CEILING SPACE OF THE BUILDING FROM THE TELEPHONE ROOM TO THE PANELBOARD ROOM.
6. PULLBOXES TO BE 18"X18" MINIMUM. WALL MOUNT ADJACENT TO EXISTING PULLBOXES. EXTEND 3-2" CONDUITS THROUGH THE WALL BETWEEN PULLBOXES.
7. DEMOLISH SIDEWALK AS REQUIRED FOR INSTALLATION OF NEW CONDUITS. PATCH SIDEWALK TO ORIGINAL CONDITION.
8. AUTODIALER SENDS ALARMS TO SAC. CONTACT SAC PRIOR TO DISCONNECTING EXISTING ALARMS AND/OR INSTALLING NEW ALARMS.



PARTIAL PLAN 2
1/4"=1'-0"



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| | | | | | | |
|--|---|--|--|--|--|--|
| DESIGNED BY: MAESTRI DRAWN BY: MAESTRI CHECKED BY: MAESTRI DATE: 05/06/06 | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | VERIFIED SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING. 0"=1' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | CH2MHILL CAROLLO engineers | CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENT PROJECT WWTP-03-01 LINN COUNTY, OREGON | ELECTRICAL PARTIAL PLAN OF OPERATIONS BUILDING | SHEET: 455 DWG: 91-E-521 DATE: MAY 19 2006 PROJ: 326918 |
|--|---|--|--|--|--|--|

| LUMINAIRE SCHEDULE | | | | | | |
|--------------------|---------|-------------|---|--|-------------------------|--------------------|
| SYMBOL/TYPE | VOLTAGE | INPUT WATTS | DESCRIPTION | MANUFACTURER AND CATALOG NO. | LAMPS | MOUNTING |
| 1 | 120 | 61 | 1' X 4' HEAVY DUTY TURRET INDUSTRIAL FINISH IS HIGH GLOSS BAKED WHITE ENAMEL. FIXTURE IS SUITABLE FOR DAMP LOCATIONS. USE AF10 SERIES FOR 10% UPLIGHT APERTURED REFLECTOR. ENERGY SAVINGS AND ELECTRONIC BALLASTS ARE SOUND RATED A. PROVIDE WITH EMERGENCY BATTERY PACK WHERE SHOWN ON PLAN DRAWINGS | LITHONIA 'AF10' | (2), F32T8/4100K/RS 32W | PENDANT OR SURFACE |
| 2 | 120 | 90 | SIMILAR TO TYPE 1 EXCEPT 3 LAMP FIXTURE | LITHONIA 'AF10' | (2), F32T8/4100K/RS 32W | PENDANT OR SURFACE |
| 3 | 120 | 71 | 1 X 4 ALL PURPOSE WALL BRACKET EASY MAINTENANCE HEAVY DUTY CODE GRADE STEEL. HIGH GLOSS BAKED WHITE ENAMEL FINISH. A12 PATTERN CLEAR ACRYLIC LENS. PROVIDE WITH EMERGENCY BATTERY PACK WHERE SHOWN ON PLAN DRAWINGS. | LITHONIA 'WC' | (2), F32T8/ | WALL |
| 4 | 120 | 36 | SIMILAR TO TYPE 3 EXCEPT 17 WATT T8, IN A 1 X 2 HOUSING | LITHONIA 'WC' | (2) 17W T8 | WALL |
| 5 | 120 | 61 | 8"Wx6"Dx50"L ENCLOSED AND GASKETED, SUITABLE FOR WET LOCATIONS. FIBERGLASS HOUSING. HIGH IMPACT ACRYLIC LENS. ACRYLIC DIFFUSER WITH A STIPPLED INTERIOR SURFACE TO SPREAD LAMP IMAGE. PROVIDE WITH EMERGENCY BATTERY PACK WHERE SHOWN ON PLAN DRAWINGS. | LITHONIA 'DMW' | (2), F32T8/4100K/RS 32W | PENDANT OR SURFACE |
| 6 | 120 | 62 | 1' X 4' PERFORMER SERIES HAZARDOUS LOCATION, ENCLOSED AND GASKETED FIXTURE. FIBERGLASS REINFORCED POLYESTER HOUSING. CLEAR ACRYLIC LENS. UL LISTED FOR CLASS I DIVISION 2 AREAS. | COLUMBIA 'FNPH' | (2), F32T8/4100K/RS 32W | PENDANT OR SURFACE |
| 7 | 120 | 83 | 16" X 7" X 9" DEEP WALL MOUNT ALUMINUM HOUSING, DIE CAST DOOR FRAME HAS 1/8" THICK TEMPERED GLASS LENS. FULLY GASKETED DOOR FRAME. FULL CUTOFF DISTRIBUTION | LITHONIA 'WST' | (1) 70W METAL HALIDE | WALL MT |
| 8 | 120 | 237 | SIMILAR TO TYPE 14 EXCEPT 150 WATT | LITHONIA 'WST' | (1) 150W METAL HALIDE | WALL MT |
| 9 | 120/208 | 130 | 28"L X 16"W X 8"D ALUMINUM HOUSING, DIE-CAST DOOR FRAME HAS IMPACT RESISTANT TEMPERED GLASS LENS. FULLY GASKETED DOOR FRAME, POLYESTER POWDER FINISH. TYPE SR5 DISTRIBUTION, ROUND POLE MOUNTING. SUPER CWA PULSE START MULTI-TAP BALLAST FOR 120 OR 208V, NOTE 7. POLE: CARBON STEEL TUBING, AND PLATE FOR ANCHOR BASE. 10'-0" POLE HEIGHT | LITHONIA AERIS "AS2" LITHONIA SSA 10 4C | (1) 100W METAL HALIDE | POLE |
| 10 | 120 | 260 | SIMILAR TO TYPE 9 EXCEPT TWO LUMINAIRES MOUNTED ON POLE. POLE: CARBON STEEL TUBING, AND PLATE FOR ANCHOR BASE. 10'-0" POLE HEIGHT | LITHONIA AERIS "AS2" LITHONIA 'RSS 10 4-5B' | (2) 100W METAL HALIDE | POLE |
| 11 | 120 | 183 | 10" X 46" T5 DIRECT OPEN FLUORESCENT HIGH BAY. COLD ROLLED 20 GAUGE STEEL WITH HIGH GLOSS BAKED WHITE ENAMEL FINISH. HIGH POWER FACTOR ELECTRONIC BALLAST. WITH UPLIGHT OPTION PROVIDE WITH EMERGENCY BATTERY PACK WHERE SHOWN ON DRAWINGS. PROVIDE ZINC COATED WIRE GUARD. | LITHONIA 'MS5HB' | (3) 54 W HO T5 | PENDANT |
| 12 | 120/12 | 54 | NEMA4X EMERGENCY LIGHTING UNIT PROVIDES A MINIMUM OF 90 MINUTES OF ILLUMINATION POLYCARBONATE HOUSING, SEALED AND GASKETED LEAD CALCIUM BATTERY, LED INDICATOR DISPLAYS TWO-STAGE CHARGING | LITHONIA 'INDX 1254' | (2) 20W HALOGEN | WALL |
| 13 | 120/12 | 50 | HAZARDOUS AREA EMERGENCY UNIT RATED FOR CLASS I, DIVISION 2 AREAS. NICKEL CADMIUM MAINTENANCE FREE BATTERIES. COMPRESSION MOLDED FIBERGLASS REINFORCED POLYESTER HOUSING. | HOLOPHANE DESOTO 'M70 DM7' | (2), 25W PAR 36 | WALL |
| 14 | 120 | 295 | 16" DIAMETER. PAINT TO PROVIDE EXCEPTIONAL CORROSION RESISTANCE. HPF BALLAST, PRISMATIC BOROSILICATE GLASS OPTICS, OPTIONAL SAFETY CHAIN. UL LISTED WET LOCATION PROVIDE QUARTZ RESTRIKE AS SHOWN ON PLANS. | HOLOPHANE PETROLUX 'PTB 525' | (1) 250W METAL HALIDE | PENDANT |
| 15 | 480 | 455 | 15" X 36" X 16" NOMINAL POLE MOUNTED ROADWAY LUMINAIRE. HOUSING, DOOR AND FITTER SHALL BE DIE CAST ALUMINUM. LENS SHALL BE FLAT MINIMUM 1/8" TEMPERED GLASS. ALL BALLAST COMPONENTS SHALL BE MOUNTED TO DOOR HINGE FOR TOOL FREE REMOVAL AND REPLACEMENT. BALLAST SHALL BE HIGH POWER FACTOR BALLAST TO SHUT DOWN LAMP IF INOPERATIVE LAMP IS DETECTED. PROVIDE TYPE II AND TYPE IV DISTRIBUTION AS SHOWN ON PLANS. POLE: CARBON STEEL TUBING SQUARE NON-TAPERED. 16'-0" POLE HEIGHT. | HOLOPHANE 'G400' | (1) 400W HPS | POLE |
| 16 | 120 | 1.5 | 8" X 12" EXIT SIGN THERMOPLASTIC HOUSING. CORROSION PROOF 6" HIGH LETTERS WITH 3/4" STROKE. WHITE FACE WITH GREEN LETTERS. NICKEL CADMIUM BATTERY BACKUP | LITHONIA 'LQM' | LED | WALL/CEILING |

| LUMINAIRE SCHEDULE | | | | | | |
|--------------------|---------|-------------|--|------------------------------|------------------------------|----------|
| SYMBOL/TYPE | VOLTAGE | INPUT WATTS | DESCRIPTION | MANUFACTURER AND CATALOG NO. | LAMPS | MOUNTING |
| 20 | 120 | 94 | SIMILAR TO TYPE 7, EXCEPT TWO 42WATT FLUORESCENT LAMPS | LITHONIA 'WST' | (2) 42TRT 3500K/RS 32W | WALL MT |
| 21 | 120 | 40 | 8" DIA DOWNLIGHT, GALVANIZED STEEL FRAME, WITH CLEAR SPECULAR LOW IRIDESCENCE REFLECTOR, WHITE SPLAY T73 TEMPERED PRISMATIC LENS, COMPLETE WITH ELECTRONIC BALLAST. UL LISTED FOR WET LOCATIONS. | LITHONIA 'LP8F' OR EQUAL | (1) 32TRT 3500K/RS 32W | RECESSED |
| 22 | 120 | 60 | 8" DIA DOWNLIGHT, GALVANIZED STEEL FRAME, WITH CLEAR SPECULAR LOW IRIDESCENCE REFLECTOR, WHITE SPLAY T73 TEMPERED PRISMATIC LENS, COMPLETE WITH ELECTRONIC BALLAST. UL LISTED FOR WET LOCATIONS. | LITHONIA 'LP8F' OR EQUAL | (1) 57TRT 3500K/RS 57W | RECESSED |
| 23 | 120 | 62 | 12" X 48" X 5"D RECESSED FLUORESCENT LIGHT FIXTURE. COLD ROLLED CODE GAUGE STEEL HOUSING, GASKETED, 100% UV ACRYLIC LENS WITH INTERNAL PRISMS. SMOOTH OUTER LENS SURFACE, ALL METAL PARTS FINISHED WITH ELECTROSTATICALLY DEPOSITED, THERMALLY SET POWDER PAINT AFTER FABRICATION. UL LISTED FOR WET LOCATIONS. | LITHONIA 'WRT' OR EQUAL | (2) F32T8/3500K/RS 32W FLUOR | RECESSED |
| 24 | 120 | 62 | 12" X 48" X 6"D RECESSED FLUORESCENT DIRECT/INDIRECT LIGHT FIXTURE, COLD ROLLED CODE GAUGE STEEL HOUSING, ALL METAL PARTS FINISHED WITH ELECTROSTATICALLY DEPOSITED, THERMALLY SET MATTE WHITE POWDER PAINT AFTER FABRICATION. DIFFUSE ROUND HOLES ALUMINUM REFLECTOR. UL LISTED FOR DRY LOCATIONS. | LITHONIA 'AV' OR EQUAL | (2) F32T8/3500K/RS 32W FLUOR | RECESSED |
| 25 | 120 | 62 | 24" X 24" X 6"D RECESSED FLUORESCENT DIRECT/INDIRECT LIGHT FIXTURE, COLD ROLLED CODE GAUGE STEEL HOUSING, ALL METAL PARTS FINISHED WITH ELECTROSTATICALLY DEPOSITED, THERMALLY SET POWDER PAINT AFTER FABRICATION. DIFFUSE ROUND HOLES ALUMINUM REFLECTOR. PROVIDE EMERGENCY BATTERY PACK WHERE SHOWN ON DRAWINGS. UL LISTED FOR DRY LOCATIONS. | LITHONIA 'AV' OR EQUAL | (2) F17T8/3500K/RS 17W FLUOR | RECESSED |
| 26 | 120 | 62 | 24" X 48" X 6"D RECESSED FLUORESCENT DIRECT/INDIRECT LIGHT FIXTURE, COLD ROLLED CODE GAUGE STEEL HOUSING, ALL METAL PARTS FINISHED WITH ELECTROSTATICALLY DEPOSITED, THERMALLY SET POWDER PAINT AFTER FABRICATION. DIFFUSE ROUND HOLES ALUMINUM REFLECTOR. UL LISTED FOR DRY LOCATIONS. | LITHONIA 'AV' OR EQUAL | (2) F32T8/3500K/RS 32W FLUOR | RECESSED |
| 27 | 120 | 62 | 24" X 48" X 6"D RECESSED FLUORESCENT DIRECT/INDIRECT LIGHT FIXTURE, COLD ROLLED CODE GAUGE STEEL HOUSING, ALL METAL PARTS FINISHED WITH ELECTROSTATICALLY DEPOSITED, THERMALLY SET POWDER PAINT AFTER FABRICATION. DIFFUSE ROUND HOLES ALUMINUM REFLECTOR. PROVIDE WITH EMERGENCY BATTERY PACK WHERE SHOWN ON DRAWINGS. UL LISTED FOR DRY LOCATIONS. | LITHONIA 'AV' OR EQUAL | (3) F32T8/3500K/RS 32W FLUOR | RECESSED |
| 28 | 120 | 40 | 7" DIA HOUSING, GALVANIZED STEEL FRAME, ALUMINUM REFLECTOR AND HOUSING, WITH A POLISHED SATIN FINISH. COMPLETE WITH ELECTRONIC BALLAST. UL LISTED FOR DAMP LOCATIONS. | LITHONIA 'LP8' OR EQUAL | (2) 26DTT 3500K/RS 26W | RECESSED |
| 29 | 120 | 62 | 24" X 48" X 5"D RECESSED FLUORESCENT LIGHT FIXTURE. COLD ROLLED CODE GAUGE STEEL HOUSING, GASKETED, 100% UV ACRYLIC LENS WITH INTERNAL PRISMS. SMOOTH OUTER LENS SURFACE, ALL METAL PARTS FINISHED WITH ELECTROSTATICALLY DEPOSITED, THERMALLY SET POWDER PAINT AFTER FABRICATION. UL LISTED FOR WET LOCATIONS. | LITHONIA 'WRT' OR EQUAL | (2) F32T8/3500K/RS 32W FLUOR | RECESSED |
| 30 | 120 | 62 | 12" X 48" X 5"D RECESSED FLUORESCENT LIGHT FIXTURE. COLD ROLLED CODE GAUGE STEEL HOUSING, 100% UV ACRYLIC LENS, ALL METAL PARTS FINISHED WITH ELECTROSTATICALLY DEPOSITED, THERMALLY SET POWDER PAINT AFTER FABRICATION. UL LISTED FOR DRY LOCATIONS. | LITHONIA 'SP8' OR EQUAL | (2) F32T8/3500K/RS 32W FLUOR | RECESSED |

NOTES:

- FOR EXACT LOCATION OF EXTERIOR WALL MOUNTED LUMINAIRES, SEE ARCHITECTURAL ELEVATIONS.
- FOR CEILING TYPES, SEE ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS.
- ALL DIMENSIONS INDICATED ARE "NOMINAL DIMENSIONS".
- SYMBOL:  FLUORESCENT OR ANY OTHER LUMINAIRE WITH DOT INDICATES INTEGRAL EMERGENCY BALLAST. SEE SPECIFICATIONS. CONNECT EMERGENCY BALLAST LAMP(S) SWITCHED UNLESS OTHERWISE NOTED.
- THREE-LAMP FLUORESCENTS SHALL BE WIRED SO THAT THE TWO OUTSIDE LAMPS/BALLAST ARE CONTROLLED FROM ONE SWITCH AND THE ONE INSIDE LAMP/BALLAST IS CONTROLLED FROM THE OTHER SWITCH, UNLESS OTHERWISE NOTED.
- HIGH-BAY LIGHTS WITH DOT , REPRESENTS THEY HAVE A 250W QUARTZ LAMP FOR INSTANT ON AND RE-STRIKE TIME. WIRE PER MANUFACTURERS SPECIFICATIONS.
- LUMINAIRE TYPE 9 SHALL HAVE MULTI-TAP BALLAST CAPABLE OF OPERATING AT 120V OR 208V. CONTRACTOR TO WIRE PER MANUFACTURERS RECOMMENDATIONS. LUMINAIRES WITH 2 CIRCUIT NUMBERS ADJACENT TO LIGHTS ON PLANS ARE 208V.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KANDIL MAESTRI, STATE OF OREGON, P.E. NO. 53785PE

| | | | | | | | | | |
|------|------------|-----|----------|----------|----|------|-----|-----|--|
| DSGN | KL MAESTRI | | | | | | | | |
| DR | GJ LOVE | | | | | | | | |
| CHK | JB MAURIS | | | | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | GRW | KLM | |
| | | | 01/20/10 | | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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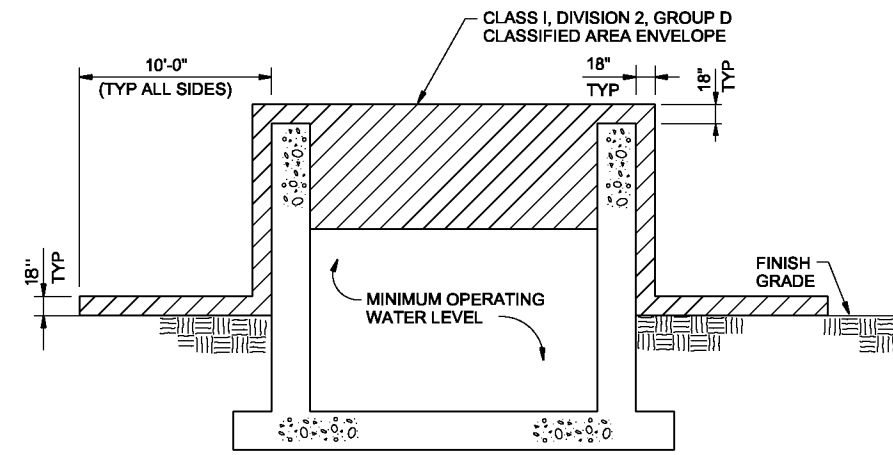
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

ELECTRICAL

LUMINAIRE SCHEDULE

| | |
|-------|-------------|
| SHEET | 456 |
| DWG | 91-E-531 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOTES:

1. THIS DETAIL FROM NFPA 820, SHOWS THE AREA CLASSIFICATION FOR THE VERTICAL LOOP REACTORS, SECONDARY CLARIFIERS AND INTERCHANGE REACTORS/AEROBIC DIGESTERS. ALL EQUIPMENT LOCATED WITHIN THESE BOUNDARIES SHALL BE RATED FOR USE IN A CLASS I, DIVISION 2, GROUP D CLASSIFIED AREA AND SHALL CONFORM TO NEC AND THE SPECIFICATIONS.
2. REFER TO SECTION 16010, BASIC ELECTRICAL REQUIREMENTS FOR A LISTING OF HAZARDOUS LOCATIONS.

| | |
|---------------|----------|
| DETAIL | 1 |
| | NTS |
| | 30-E-141 |
| | 30-E-145 |
| | 30-E-203 |
| 45-E-131 | |
| 70-E-141 | |

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| | | | | | |
|------|-------------|----------|------|----------|---------|
| DSGN | KL MAESTRI | | | | |
| DR | GJ LOVE | | | | |
| CHK | JB MAURASIS | 01/20/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY APVD |

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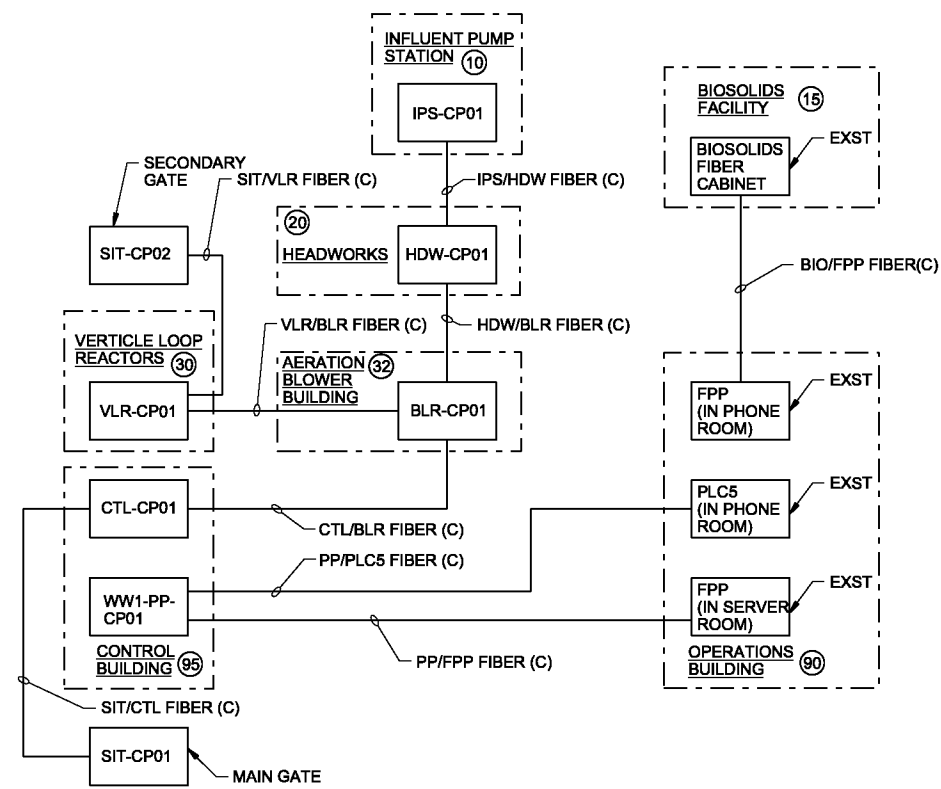


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

ELECTRICAL
 DETAILS

| | |
|-------|-------------|
| SHEET | 457 |
| DWG | 91-E-532 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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CONTROL SYSTEM FIBER WIRING DIAGRAM

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| | | | | | | | |
|------|----------------|----------|------|----------|----|------|--|
| DSGN | KL MAESTRI | | | | | | |
| DR | J SCHWERTFEGER | | | | | | |
| CHK | JB MAURASIS | 01/20/10 | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

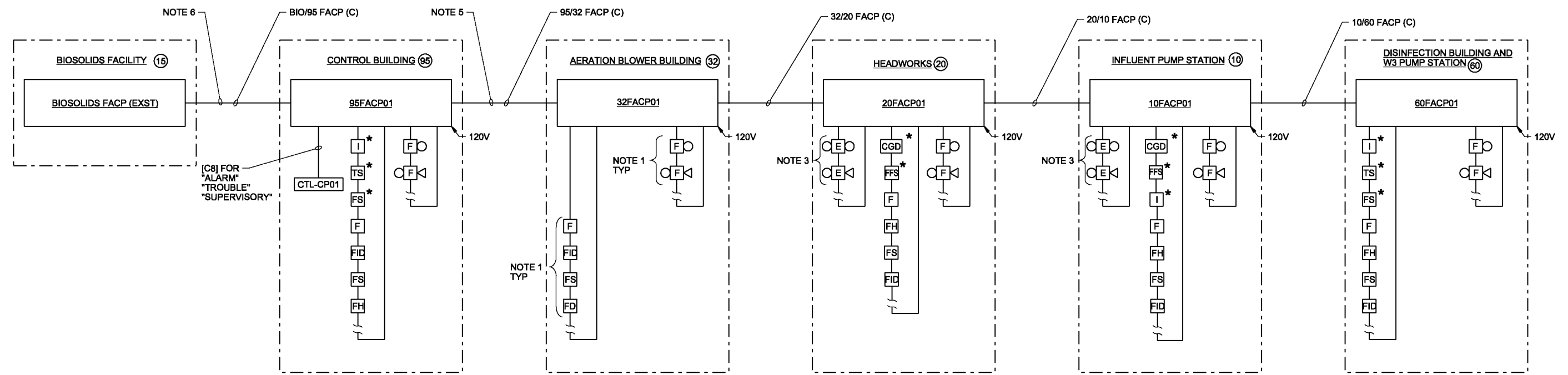
ELECTRICAL
SPECIAL SYSTEMS RISER DIAGRAMS

| | |
|-------|-------------|
| SHEET | 458 |
| DWG | 91-E-533 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOTES:

1. FIRE SYSTEM SHOWN SCHEMATICALLY ONLY. REPRESENTATIVE DEVICES ARE SHOWN. DEVICE LOCATION, QUANTITIES AND TYPE TO BE DETERMINED BY FIRE ALARM SYSTEM VENDOR. SEE FACILITY PLAN VIEWS AND SPECIFICATIONS.
2. THOSE ITEMS WITH AN ASTERISK (*) NEXT TO THEM ARE PROVIDED BY OTHER DISCIPLINES AND TRADES. SEE FACILITY PLANS FOR QUANTITY AND LOCATIONS.
3. THE EVACUATION HORNS AND STROBES ARE FOR COMPLIANCE WITH NFPA 820. FOR QUANTITIES AND LOCATIONS, SEE FACILITY PLANS.
4. FIRE SYSTEM SHOWN SCHEMATICALLY. CONDUCTOR TYPE BETWEEN THE FACP AND THE DEVICES ARE MANUFACTURER SPECIFIC AND WILL VARY ACCORDINGLY. INSTALL ALL CONDUCTORS EXTERIOR TO THE FACP AND DEVICES IN CONDUIT SIZED PER THE NEC REQUIREMENTS FOR CONDUCTOR FILL. MINIMUM CONDUIT SIZE SHALL BE 3/4".
5. CONDUITS BETWEEN FACP'S HAVE BEEN IDENTIFIED ON THE SITE ROUTED CONDUIT SCHEDULE AND CABLES HAVE BEEN LABELED AS SHOWN ON THIS DRAWING. FIRE ALARM SYSTEM SUPPLIER IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE CABLING AS REQUIRED FOR THE SYSTEM PROVIDED.
6. COMMUNICATIONS CABLE OR HARWIRED SIGNAL CABLE. REFER TO SPECIFICATION 13850, FIRE ALARM SPECIFICATION FOR ADDITIONAL INFORMATION.



FIRE ALARM SYSTEM RISER DIAGRAM

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|------|-----------------|-----|------|----------|----|------|
| DSGN | KL MAESTRI | NO. | DATE | REVISION | BY | APVD |
| DR | J SCHWERTFEGGER | | | | | |
| CHK | JB MAURAS | | | | | |
| APVD | CW MASSIE | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

ELECTRICAL
**FIRE ALARM SYSTEM
 RISER DIAGRAM**

| | |
|-------|-------------|
| SHEET | 459 |
| DWG | 91-E-534 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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ELECTRICAL PANELBOARD SCHEDULE

PANEL: 07LP01 (EXISTING - ADD CIRCUITS AS NEEDED)
 VOLTAGE: 208Y/120V
 BUS SIZE: 100A
 MAIN SIZE: REPLACE EXISTING 30A BREAKER WITH 20A BREAKER
 * DENOTES LOCKABLE DISCONNECT
 ** DENOTES EGF BREAKER WITH 30mA TRIP

LOCATION: OVERFLOW STRUCTURE
 MOUNTING: SURFACE
 FED FROM: 10DP01 VIA 07TX01
 MAIN TYPE: BREAKER
 NOTE: LIGHTING AND GENERAL USE PANEL

| CIRCUIT TITLE | BREAKER | | | LOAD, VA PHASE | | | LOAD, VA PHASE | | | BREAKER | | | CIRCUIT TITLE |
|---------------|---------|-----|------|----------------|-----|---|----------------|-----|-----|---------|-----|---------|---------------|
| | CKT NO. | AMP | POLE | A | B | C | A | B | C | POLE | AMP | CKT NO. | |
| RECEPTACLES | 1 | 20 | 1 | 360 | | | | | | 1 | 20 | 2 | SPARE |
| LIGHTING | 3 | 20 | 1 | | 120 | | | | 300 | | 20 | 4 | FANS |
| 07P0101 | 5 | 20 | 1 | | | | | 600 | | 1 | 20 | 6 | 0750121 |
| 07P0102 | 7 | 20 | 1 | 1680 | | | | 500 | | 1 | 20 | 8 | HEAT |
| SPARE | 9 | 20 | 1 | | | | | 500 | | 1 | 20 | 10 | HEAT |
| SPARE | 11 | 20 | 1 | | | | | | | 1 | 20 | 12 | SPACE |
| TOTAL LOAD | | | | 2040 | 120 | 0 | 500 | 800 | 500 | | | | |

PHASE A LOAD (VA) = 2540
 PHASE B LOAD (VA) = 920
 PHASE C LOAD (VA) = 500
 TOTAL LOAD (VA) = 3960
 TOTAL LOAD (A) = 33.0

ELECTRICAL PANELBOARD SCHEDULE

PANEL: 10DP01
 VOLTAGE: 480V
 BUS SIZE: 225A
 MAIN SIZE: 225A

LOCATION: IPS BUILDING
 MOUNTING: SURFACE
 FED FROM: MCC-6C/D
 MAIN TYPE: LUGS

| CIRCUIT TITLE | BREAKER | | | LOAD, VA PHASE | | | LOAD, VA PHASE | | | BREAKER | | | CIRCUIT TITLE |
|---------------|---------|-----|------|----------------|-------|-------|----------------|------|------|---------|-----|---------|--------------------------|
| | CKT NO. | AMP | POLE | A | B | C | A | B | C | POLE | AMP | CKT NO. | |
| 10TX02 | 1 | 80 | 3 | 5000 | | | 1500 | | | 3 | 20 | 2 | 68LCP0201 |
| | 3 | | | 5000 | | | 1500 | | | | | 4 | |
| | 5 | | | | 5000 | | | | 1500 | | | 6 | |
| | 7 | | | 3000 | | | | | 3000 | | | 8 | |
| 61TX01 | 9 | 20 | 3 | 3000 | | | | | | 3 | 30 | 10 | Basement sump pump panel |
| | 11 | | | | | | | | | | | 12 | |
| 60G0401/2 | 13 | 15 | 3 | 666 | | | 1000 | | | 3 | 20 | 15 | 07TX01 |
| | 15 | | | 666 | | | | | 1000 | | | 16 | |
| 60FV6011/12 | 17 | 15 | 3 | 666 | | | | | | 3 | 20 | 18 | Monorail hoist |
| | 19 | | | 666 | | | | | | | | 20 | |
| | 21 | | | 666 | | | | | | | | 22 | |
| | 23 | | | 666 | | | | | | | | 24 | |
| 60G0301/2 | 25 | 15 | 3 | 666 | | | | | | 3 | 20 | 26 | Sluice gate |
| | 27 | | | 666 | | | | | | | | 28 | |
| | 29 | | | 666 | | | | | | | | 30 | |
| | 31 | | | 333 | | | | | | | | 32 | |
| 07G0111 | 33 | 15 | 3 | 333 | | | | | | 3 | 20 | 34 | SPARE |
| | 35 | | | 1000 | | | | | 333 | | | 36 | |
| | 37 | | | 1000 | | | | | | | | 38 | |
| 10TX-PNL-LF | 39 | 50 | 3 | 1000 | | | | | | 3 | 20 | 40 | Roll up door |
| | 41 | | | 1000 | | | | | | | | 42 | |
| TOTAL LOAD | | | | 11331 | 11331 | 11331 | 2500 | 2500 | 2500 | | | | |

PHASE A LOAD (VA) = 13831
 PHASE B LOAD (VA) = 13831
 PHASE C LOAD (VA) = 13831
 TOTAL LOAD (VA) = 41493
 TOTAL LOAD (A) = 49.9

ELECTRICAL PANELBOARD SCHEDULE

PANEL: 10IP01
 VOLTAGE: 120/240
 BUS SIZE: 100A
 MAIN SIZE: 30A

LOCATION: IPS BUILDING
 MOUNTING: SURFACE
 FED FROM: EXISTING UPS PANELBOARD
 MAIN TYPE: BREAKER

| CIRCUIT DESCRIPTION | BREAKER | | | LOAD IN KVA | | | LOAD IN KVA | | | BREAKER | | | CIRCUIT DESCRIPTION |
|--------------------------|---------|-----|------|-------------|-----|-----|-------------|-----|---|---------|-----|---------|------------------------|
| | CKT NO. | AMP | POLE | A | B | C | A | B | C | POLE | AMP | CKT NO. | |
| SPARE | 1 | 15 | 1 | 250 | | | 300 | | | 1 | 15 | 2 | IPS-CP01 |
| DEVICENET PS 1 IN MCC-6C | 3 | 15 | 1 | | 50 | | | 200 | | 1 | 15 | 4 | 61INST |
| 60INST | 5 | 15 | 1 | 100 | | | | 100 | | 1 | 15 | 6 | DEVICENET PS IN MCC-6D |
| 07INST | 7 | 15 | 1 | | 100 | | | 50 | | 1 | 15 | 8 | 10AIT3111 |
| SPARE | 9 | 15 | 1 | 250 | | | | | | 1 | 15 | 10 | CCB-CP01 |
| SPARE | 11 | 15 | 1 | | 250 | | | | | 1 | 15 | 12 | SPARE |
| SPARE | 13 | 15 | 1 | | | | | | | 1 | 15 | 14 | SPARE |
| SPARE | 15 | 15 | 1 | | | | | | | 1 | 15 | 16 | SPARE |
| SPARE | 17 | 15 | 1 | | | | | | | 1 | 15 | 18 | SPARE |
| SPACE | 19 | | | | | | | | | | | 20 | SPACE |
| SPACE | 21 | | | | | | | | | | | 22 | SPACE |
| SPACE | 23 | | | | | | | | | | | 24 | SPACE |
| TOTAL LOAD | | | | 600 | 400 | 400 | 250 | | | | | | |

PHASE A LOAD (VA) = 1000
 PHASE B LOAD (VA) = 650
 TOTAL LOAD (VA) = 1650
 TOTAL LOAD (A) = 7.9

ELECTRICAL PANELBOARD SCHEDULE

PANEL: 10LP01
 VOLTAGE: 208Y/120V
 BUS SIZE: 100A
 MAIN SIZE: 100A
 * DENOTES LOCKABLE DISCONNECT
 ** DENOTES EGF BREAKER WITH 30mA TRIP

LOCATION: INFLUENT PUMP STATION
 MOUNTING: SURFACE
 FED FROM: 10TX02
 MAIN TYPE: BREAKER
 NOTE: LIGHTING AND GENERAL USE PANEL

| CIRCUIT TITLE | BREAKER | | | LOAD, VA PHASE | | | LOAD, VA PHASE | | | BREAKER | | | CIRCUIT TITLE |
|-----------------|---------|------|------|----------------|------|------|----------------|------|------|---------|-----|---------|------------------|
| | CKT NO. | AMP | POLE | A | B | C | A | B | C | POLE | AMP | CKT NO. | |
| 60HEAT1 | 1 | 20** | 1 | 1075 | | | 1000 | | | 1 | 20 | 2 | 10HCP9901 |
| 60HEAT2 | 3 | 20** | 1 | 1075 | | | 1000 | | | 1 | 20 | 4 | 10HCP9902 |
| 60HEAT3 | 5 | 20** | 1 | | | | 1075 | | 250 | 1 | 20 | 6 | 10FACP01 |
| 60HEAT4 | 7 | 20** | 1 | 1075 | | | 1440 | | | 1 | 20 | 8 | 60RECEPT |
| SPARE | 9 | 20** | 1 | 1075 | | | 975 | | | 1 | 20 | 10 | 60LIGHTS |
| SPARE | 11 | 20** | 1 | | | | 1075 | | 975 | 1 | 20 | 12 | SPARE |
| SPARE | 13 | 20** | 1 | 1075 | | | 1500 | | | 1 | 20 | 14 | Non-UPS IPS-CP01 |
| SPARE | 15 | 20** | 1 | | | | 1075 | | | 1 | 20 | 16 | SPARE |
| SPARE | 17 | 20** | 1 | | | | 1404 | | | 1 | 15 | 18 | SPARE |
| COMB. ROOM EF-3 | 19 | | | | | | | | | 1 | 15 | 20 | SPARE |
| SPARE | 21 | | | | | | | | | 1 | 15 | 22 | SPARE |
| SPARE | 23 | | | | | | | | | 1 | 20 | 24 | SPARE |
| TOTAL LOAD | | | | 3225 | 3225 | 3554 | 3940 | 1975 | 1225 | | | | |

PHASE A LOAD (VA) = 7165
 PHASE B LOAD (VA) = 5200
 PHASE C LOAD (VA) = 4779
 TOTAL LOAD (VA) = 17144
 TOTAL LOAD (A) = 47.6

ELECTRICAL PANELBOARD SCHEDULE

PANEL: 20DP01
 VOLTAGE: 480V
 BUS SIZE: 400A
 MAIN SIZE: N/A

LOCATION: HEADWORKS BUILDING, ELECTRICAL ROOM
 MOUNTING: SURFACE
 FED FROM: MCC-20A AND MCC-20B VIA 20ATS01
 MAIN TYPE: MAIN BREAKER

| CIRCUIT TITLE | BREAKER | | | LOAD, VA PHASE | | | LOAD, VA PHASE | | | BREAKER | | | CIRCUIT TITLE |
|-------------------|---------|-----|------|----------------|-------|-------|----------------|-------|-------|---------|-----|---------|------------------------|
| | CKT NO. | AMP | POLE | A | B | C | A | B | C | POLE | AMP | CKT NO. | |
| LTS. SITE N.W. | 1 | 20 | 2 | 2052 | | | 667 | | 667 | 3 | 20 | 2 | 24FV6001, 24FV6011 |
| SPACE | 3 | | | | | | | | | | | 4 | VIA 24TJB6001 |
| LTS. SITE S.W. | 5 | | | | | | 2052 | | 667 | 3 | 20 | 6 | |
| LTS. SITE S.W. | 7 | 20 | 2 | 2052 | | | 667 | | 666 | 3 | 20 | 8 | 24FV6002, 24FV6012 |
| SPACE | 9 | | | | | | | | | | | 10 | VIA 24TJB6001 |
| LTS. SITE S.W. | 11 | | | | | | 2052 | | 666 | 3 | 20 | 12 | |
| SPARE | 13 | | | | | | | | 667 | 3 | 20 | 14 | 54FCV6001, 54FCV6002 |
| | 15 | | | | | | | | 667 | 3 | 20 | 16 | VIA 54TJB6001 |
| | 17 | | | | | | | | 666 | 3 | 20 | 18 | |
| 22G1201, 24G1201 | 19 | | | | | | 667 | | 666 | 3 | 20 | 20 | 54FCV6003, 54FCV6004 |
| VIA 22TJB1201 | 21 | | | | | | 667 | | 667 | 3 | 20 | 22 | VIA 54TJB6001 |
| 20LP02 VIA 20TX02 | 23 | | | | | | 6721 | 666 | 8000 | 3 | 40 | 24 | |
| | 25 | | | | | | 6728 | 7538 | 8000 | 3 | 40 | 26 | WATER HEATER, WH-01 |
| | 27 | | | | | | | | 8000 | 3 | 40 | 28 | |
| | 29 | | | | | | | | 8000 | 3 | 40 | 30 | |
| | 31 | | | | | | | | 20328 | 3 | 110 | 32 | 20DP02 |
| SPARE | 33 | | | | | | | | 20328 | 3 | 110 | 34 | |
| | 35 | | | | | | | | 20328 | 3 | 110 | 36 | |
| | 37 | | | | | | | | 30497 | 3 | 60 | 38 | 20LP01 VIA XFMR 20TX01 |
| | 39 | | | | | | 27925 | 9150 | 3055 | 3 | 60 | 40 | |
| | 41 | | | | | | 28278 | | 4275 | 3 | 60 | 42 | |
| TOTAL LOAD | | | | 41999 | 35320 | 40586 | 40145 | 34051 | 35268 | | | | |

PHASE A LOAD (VA) = 82144
 PHASE B LOAD (VA) = 69371
 PHASE C LOAD (VA) = 75854
 TOTAL LOAD (VA) = 227369
 TOTAL LOAD (A) = 273.5

ELECTRICAL PANELBOARD SCHEDULE

PANEL: 20DP02
 VOLTAGE: 480V
 BUS SIZE: 225A
 MAIN SIZE: N/A

LOCATION: HEADWORKS BUILDING, ELECTRICAL ROOM
 MOUNTING: SURFACE
 FED FROM: 20DP01
 MAIN TYPE: LUGS

| CIRCUIT TITLE | BREAKER | | | LOAD, VA PHASE | | | LOAD, VA PHASE | | | BREAKER | | | CIRCUIT TITLE |
|---------------------------|---------|-----|------|----------------|---|---|----------------|------|------|---------|-----|---------|---------------|
| | CKT NO. | AMP | POLE | A | B | C | A | B | C | POLE | AMP | CKT NO. | |
| SPARE | 1 | | | | | | 666 | | 666 | 3 | 15 | 2 | |
| | 3 | | | | | | 666 | | 666 | 3 | 15 | 4 | 38G0101/2 |
| | 5 | | | | | | 666 | | 666 | 3 | 15 | 6 | |
| | 7 | | | | | | 666 | | 666 | 3 | 15 | 8 | |
| SPARE | 9 | | | | | | 666 | | 666 | 3 | 15 | 10 | 38G0103/402 |
| | 11 | | | | | | 666 | | 666 | 3 | 15 | 12 | |
| | 13 | | | | | | 666 | | 666 | 3 | 15 | 14 | |
| ROLL UP DOORS | 15 | 15 | 3 | 666 | | | 666 | | 666 | 3 | 15 | 16 | 45G0111 |
| | 17 | | | | | | 666 | | 666 | 3 | 15 | 18 | |
| | 19 | | | | | | 2000 | | 666 | 3 | 15 | 20 | |
| SPARE | 21 | 20 | 3 | 2000 | | | 2000 | | 666 | 3 | 15 | 22 | 45G0112 |
| | 23 | | | | | | 2000 | | 666 | 3 | 15 | 24 | |
| | 25 | | | | | | 2000 | | 666 | 3 | 15 | 26 | |
| | 27 | | | | | | 2000 | | 666 | 3 | 15 | 28 | 45G0113 |
| | 29 | | | | | | 2000 | | 666 | 3 | 15 | 30 | |
| | 31 | | | | | | 2000 | 5000 | 666 | 3 | 30 | 32 | |
| SPARE | 33 | | | | | | 2000 | | 5000 | 3 | 30 | 34 | 20ACCU9901 |
| | 35 | | | | | | 2000 | | 5000 | 3 | 30 | 36 | |
| 20M9501, 20M9502, 20M9503 | | | | | | | | | | | | | |

| ELECTRICAL PANELBOARD SCHEDULE | | | | | | | | | | | | | |
|---|---------|-----|------|----------|------|------|----------|------|-----|---------|--|---------|---------------------------|
| PANEL: 20IP01 VOLTAGE: 208Y/120V BUS SIZE: 100A MAIN SIZE: 50A | | | | | | | | | | | LOCATION: HEADWORKS BUILDING MOUNTING: SURFACE FED FROM: 32DP01 MAIN TYPE: BREAKER NOTE: INSTRUMENTATION PANEL WITH UPS POWER SUPPLY | | |
| CIRCUIT TITLE | BREAKER | | | LOAD, VA | | | LOAD, VA | | | BREAKER | | | CIRCUIT TITLE |
| | CKT NO. | AMP | POLE | A | B | C | A | B | C | POLE | AMP | CKT NO. | |
| SPARE | 1 | 15 | 1 | 200 | | | 200 | | | 1 | 15 | 2 | 54FIT3102 |
| SPARE | 3 | 15 | 1 | | 200 | | 200 | | | 1 | 15 | 4 | 54FIT3101 |
| SPARE | 5 | 15 | 1 | | | 200 | | | 200 | 1 | 15 | 6 | SPARE |
| 24LIT3021A, 24LIT3021B | 7 | 15 | 1 | 200 | | | 200 | | | 1 | 15 | 8 | 68FIT3021 |
| 22LIT3021A, 22LIT3021B | 9 | 15 | 1 | | 200 | | | 810 | | 1 | 15 | 10 | HDW-CP01 |
| 24LSH3131 | 11 | 15 | 1 | | | 200 | | | 80 | 1 | 15 | 12 | HDW-CP02 |
| 24LSH3132 | 13 | 15 | 1 | 200 | | | 1000 | | | 1 | 15 | 14 | 70LCP0100 |
| 10FIT3301 | 15 | 15 | 1 | | 200 | | | 400 | | 1 | 15 | 16 | 45INST1 |
| 10FIT3011 | 17 | 15 | 1 | | | 200 | | | 400 | 1 | 15 | 18 | 45INST2 |
| 20LIT3001/20AIT3031 | 19 | 15 | 1 | 200 | | | | 400 | | 1 | 15 | 20 | 45INST3 |
| 20S0001 | 21 | 15 | 1 | | 200 | | | 100 | | 1 | 15 | 22 | MCC-20A DEVICE NET LINK A |
| 20AIT3011 | 23 | 15 | 1 | | | 200 | | 100 | | 1 | 15 | 24 | MCC-20A DEVICE NET LINK B |
| 20LIT3002 | 25 | 15 | 1 | 200 | | | 100 | | | 1 | 15 | 26 | MCC-20B DEVICE NET LINK A |
| 54FIT3001 | 27 | 15 | 1 | | 200 | | | 100 | | 1 | 15 | 28 | MCC-20B DEVICE NET LINK B |
| 54FIT3002 | 29 | 15 | 1 | | | 200 | | | | 1 | 15 | 30 | 54P0201 |
| 54FIT3003 | 31 | 15 | 1 | 200 | | | | | | 1 | 15 | 32 | 54P0202 |
| 22LSH3111 | 33 | 15 | 1 | | | 200 | | | | 1 | 15 | 34 | 54P0203 |
| 22LSH3112 | 35 | 15 | 1 | | | 200 | | | | 1 | 15 | 36 | SPARE |
| 22LSH3113 | 37 | 15 | 1 | 200 | | | | | | 1 | 15 | 38 | SPARE |
| Basement wireless system | 39 | 15 | 1 | | | 200 | | | | 1 | 15 | 40 | SPARE |
| 20LIT3001 | 41 | 15 | 1 | | | 200 | | | | 1 | 15 | 42 | SPARE |
| TOTAL LOAD | | | | 1400 | 1400 | 1400 | 1900 | 1610 | 780 | | | | |
| PHASE A LOAD (VA) = | | | | 3300 | | | | | | | | | |
| PHASE B LOAD (VA) = | | | | 3010 | | | | | | | | | |
| PHASE C LOAD (VA) = | | | | 2180 | | | | | | | | | |
| TOTAL LOAD (VA) = | | | | 8490 | | | | | | | | | |
| TOTAL LOAD (A) = | | | | 23.6 | | | | | | | | | |

| ELECTRICAL PANELBOARD SCHEDULE | | | | | | | | | | | | | |
|---|---------|------|------|----------|------|------|----------|------|------|---------|--|---------|-----------------------------|
| PANEL: 20LP02 VOLTAGE: 208Y/120V BUS SIZE: 225A MAIN SIZE: 110A * DENOTES LOCKABLE DISCONNECT ** DENOTES EGFI BREAKER WITH 30mA TRIP | | | | | | | | | | | LOCATION: HEADWORKS BUILDING, ELECTRICAL ROOM MOUNTING: SURFACE FED FROM: 20DRP01 VIA 20TX02 MAIN TYPE: BREAKER NOTE: LIGHTING AND GENERAL USE PANEL | | |
| CIRCUIT TITLE | BREAKER | | | LOAD, VA | | | LOAD, VA | | | BREAKER | | | CIRCUIT TITLE |
| | CKT NO. | AMP | POLE | A | B | C | A | B | C | POLE | AMP | CKT NO. | |
| 45HEAT3 | 1 | 20** | 1 | 2071 | | | | | | 15 | 1 | 2 | SPARE |
| 45HEATB3 | 3 | 20** | 1 | 1043 | | | | | | 20 | 1 | 4 | SPARE |
| 45HEATC3 | 5 | 30** | 1 | | | 1533 | | | 720 | 20** | 1 | 6 | SPARE |
| 45HEATA2 | 7 | 20** | 1 | 1000 | | | 560 | | | 20** | 1 | 8 | HEAT TRACE CLASSIFIERS |
| 45HEATB2 | 9 | 20** | 1 | | | 1000 | | 585 | | 15 | 2 | 10 | SPARE |
| 45HEATC2 | 11 | 30** | 1 | | | | | | 585 | 15 | 12 | 12 | SPARE |
| 45HEATA1 | 13 | 20** | 1 | 1000 | | | 200 | | 1080 | 20** | 1 | 14 | HEAT TRACE HOSE BIBS |
| 45HEATB1 | 15 | 20** | 1 | | | 1000 | | | 900 | 15 | 1 | 16 | CLARIFIER 1, 2 & 3 RECEPITS |
| 45HEATC1 | 17 | 30** | 1 | | | 1800 | | | 900 | 20** | 1 | 18 | HEAT TRACE SCREEN 1 |
| DRUM SCREEN HEAT TRACE | 19 | 20 | 1 | 1000 | | | 900 | | | 20** | 1 | 20 | HEAT TRACE SCREEN 2 |
| DRUM SCREEN LIGHTS | 21 | 20 | 1 | | | 1120 | | 900 | | 20** | 1 | 22 | HEAT TRACE SCREEN 3 |
| SPARE | 23 | 20 | 1 | | | | | 200 | 200 | 20** | 1 | 24 | HEAT TRACE RAS DRUM SCRNS |
| SPARE | 25 | | | | | | | | | 20 | 1 | 26 | 45FV6001/60011 |
| SPARE | 27 | | | | | | | | | 20 | 1 | 28 | 45FV6002/60012 |
| SPARE | 29 | | | | | | | | | 20 | 1 | 30 | 45FV6003/60013 |
| TOTAL LOAD | | | | 5071 | 4163 | 6133 | 1660 | 2565 | 2405 | | | | |
| PHASE A LOAD (VA) = | | | | 6731 | | | | | | | | | |
| PHASE B LOAD (VA) = | | | | 6728 | | | | | | | | | |
| PHASE C LOAD (VA) = | | | | 7539 | | | | | | | | | |
| TOTAL LOAD (VA) = | | | | 20997 | | | | | | | | | |
| TOTAL LOAD (A) = | | | | 58.3 | | | | | | | | | |

| ELECTRICAL PANELBOARD SCHEDULE | | | | | | | | | | | | | |
|---|---------|-----|------|----------|------|------|----------|-------|-------|---------|--|---------|---------------------------|
| PANEL: 30DP01 VOLTAGE: 480V BUS SIZE: 225A MAIN SIZE: 150A | | | | | | | | | | | LOCATION: VLR ELECTRICAL SHELTER MOUNTING: SURFACE FED FROM: 32DP01 MAIN TYPE: BREAKER NOTE: PANELBOARD SHALL BE NEMA 4X ENCLOSURE | | |
| CIRCUIT TITLE | BREAKER | | | LOAD, VA | | | LOAD, VA | | | BREAKER | | | CIRCUIT TITLE |
| | CKT NO. | AMP | POLE | A | B | C | A | B | C | POLE | AMP | CKT NO. | |
| 30G2002, 38G0301 VIA 30PBX02 | 1 | | | 666 | | | | | | 20 | 3 | 2 | 30G1212 |
| | 3 | 20 | 3 | | 667 | | | | | | | 4 | SPARE |
| | 5 | | | | | 667 | | | | | | 6 | SPARE |
| 55G0101, 55G0102 VIA 30PBX01 | 7 | | | 667 | | | 1666 | | | 30 | 3 | 8 | 30G1022, 30G1122, 30G1322 |
| | 9 | 20 | 3 | | 667 | | | 1667 | | | | 10 | 30G1222 VIA 30TJ82C2 |
| | 11 | | | | | | | 1667 | | | | 12 | SPARE |
| | 13 | | | 500 | | | 1667 | | | | | 14 | 30G1032, 30G1132, 30G1332 |
| | 15 | 20 | 3 | | 500 | | | 1666 | | | | 16 | 30G1232 VIA 30TJ82D2 |
| | 17 | | | | | 500 | | | 1667 | | | 18 | SPARE |
| | 19 | | | 500 | | | 1667 | | | | | 20 | 30G1031, 30G1131, 30G1331 |
| | 21 | 20 | 3 | | 500 | | | 1667 | | | | 22 | 30G1231 VIA 30TJ81D2 |
| | 23 | | | | | 500 | | | 1666 | | | 24 | SPARE |
| 30G2001, 38G0401 VIA 30PBX02 | 25 | | | 667 | | | 1666 | | 1666 | | | 26 | 30G1021, 30G1121, 30G1321 |
| | 27 | 20 | 3 | | 667 | | | 1667 | | | | 28 | 30G1221 VIA 30TJ81C2 |
| | 29 | | | | | 667 | | | 1667 | | | 30 | SPARE |
| | 31 | | | | | | 1667 | | | | | 32 | SPARE |
| | 33 | 20 | 3 | | | | | 1666 | | | | 34 | 30G1211 |
| | 35 | | | | | | | | 1667 | | | 36 | SPARE |
| | 37 | | | | | | 3120 | | 3620 | | | 38 | SPARE |
| | 39 | 20 | 3 | | | | | | | | | 40 | 30LP01 |
| | 41 | | | | | | | | | | | 42 | SPARE |
| TOTAL LOAD | | | | 3000 | 3001 | 3001 | 11453 | 11953 | 10104 | | | | |
| PHASE A LOAD (VA) = | | | | 14453 | | | | | | | | | |
| PHASE B LOAD (VA) = | | | | 14954 | | | | | | | | | |
| PHASE C LOAD (VA) = | | | | 13105 | | | | | | | | | |
| TOTAL LOAD (VA) = | | | | 42512 | | | | | | | | | |
| TOTAL LOAD (A) = | | | | 51.2 | | | | | | | | | |

| ELECTRICAL PANELBOARD SCHEDULE | | | | | | | | | | | | | |
|---|---------|-----|------|----------|------|------|----------|-----|-----|---------|---|---------|----------------------------|
| PANEL: 20LP01 VOLTAGE: 208Y/120V BUS SIZE: 225A MAIN SIZE: 110A * DENOTES LOCKABLE DISCONNECT ** DENOTES EGFI BREAKER WITH 30mA TRIP | | | | | | | | | | | LOCATION: HEADWORKS BUILDING, ELECTRICAL ROOM MOUNTING: SURFACE FED FROM: 20DP01 VIA 20TX01 MAIN TYPE: BREAKER NOTE: LIGHTING AND GENERAL USE PANEL | | |
| CIRCUIT TITLE | BREAKER | | | LOAD, VA | | | LOAD, VA | | | BREAKER | | | CIRCUIT TITLE |
| | CKT NO. | AMP | POLE | A | B | C | A | B | C | POLE | AMP | CKT NO. | |
| LTS, ELECT. & DUMPSTER RMS. | 1 | 20 | 1 | 1600 | | | | | | 20 | 1 | 2 | GP RECPT HDW-CP01 |
| LTS, SCREENED RAS ROOM | 3 | 20 | 1 | | 1080 | | | | | 20 | 1 | 4 | CLARIFIER LTS 1, 2 & 3 |
| LTS, SCREENED RAS ROOM | 5 | 20 | 1 | | | 1300 | | | | 20 | 1 | 6 | CLARIFIER LTS 1, 2 & 4 |
| RCPT, ELCT RM, SCR MECH RM | 7 | 20 | 1 | 900 | | | 540 | | | 20 | 1 | 8 | RCPT, GRIT, DUMPSTER ROOMS |
| SPARE | 9 | 20 | 1 | | | | | | | 20 | 1 | 10 | SPARE |
| LTS, EXTERIOR DOORS | 11 | 20 | 1 | | | 1040 | | | 100 | 20 | 1 | 12 | LIGHTING PHOTOCELL |
| LTS, SOLIDS HANDLING | 13 | 20 | 1 | 1475 | | | 1475 | | 500 | 20 | 1 | 14 | 24 HR LIGHTS UPPER LEVEL |
| LTS, SOLIDS HANDLING | 15 | 20 | 1 | | 1475 | | | | | 20 | 1 | 16 | 20FACP01 |
| LTS, GRIT SEPARATOR | 17 | 20 | 1 | | | 1475 | | | | 20 | 1 | 18 | SPARE |
| RCPTS, UPPER LEVEL | 19 | 20 | 1 | 1260 | | | | | | 20 | 1 | 20 | LTS, SCREENING PLATFORM |
| SPARE | 21 | 20 | 1 | | | | | | | 20 | 1 | 22 | SPARE |
| RCPTS, OUTSIDE | 23 | 20 | 1 | | | 360 | | | | 20 | 1 | 24 | SPARE |
| HOT WATER HEATER, 68LCP3021 | 25 | 40 | 1 | 2000 | | | | | | 20 | 1 | 26 | SPARE |
| SPARE | 27 | 15 | 1 | | | | | | | 20 | 1 | 28 | SPARE |
| SPARE | 29 | 15 | 1 | | | | | | | 20 | 1 | 30 | SPARE |
| SPARE | 31 | 15 | 1 | | | | | | | 20 | 1 | 32 | SPARE |
| SPARE | 33 | 20 | 1 | | | | | | | 20 | 1 | 34 | SPARE |
| SPARE | 35 | 20 | 1 | | | | | | | 20 | 1 | 36 | SPARE |
| SPACE | 37 | | | | | | | | | 20 | 1 | 38 | SPARE |
| SPACE | 39 | | | | | | | | | 20 | 1 | 40 | SPACE |
| SPACE | 41 | | | | | | | | | 20 | 1 | 42 | SPACE |
| TOTAL LOAD | | | | 7135 | 2555 | 4175 | 2015 | 500 | 100 | | | | |
| PHASE A LOAD (VA) = | | | | 9150 | | | | | | | | | |
| PHASE B LOAD (VA) = | | | | 3055 | | | | | | | | | |
| PHASE C LOAD (VA) = | | | | 4275 | | | | | | | | | |
| TOTAL LOAD (VA) = | | | | 16480 | | | | | | | | | |
| TOTAL LOAD (A) = | | | | 45.7 | | | | | | | | | |

| ELECTRICAL PANELBOARD SCHEDULE | | | | | | | | | | | | | |
|---|---------|-----|------|----------|------|-----|----------|-----|------|---------|--|--|---------------------|
| PANEL: 20LP03 VOLTAGE: 208Y/120V BUS SIZE: 225A MAIN SIZE: 175A * DENOTES LOCKABLE DISCONNECT ** DENOTES EGFI BREAKER WITH 30mA TRIP | | | | | | | | | | | LOCATION: HEADWORKS BUILDING, MECHANICAL ROOM MOUNTING: SURFACE FED FROM: 20DP03 VIA 20TX03 MAIN TYPE: BREAKER NOTE: LIGHTING AND GENERAL USE PANEL NOTE: PANELBOARD ENCLOSURE SHALL BE NEMA 12 | | |
| CIRCUIT TITLE | BREAKER | | | LOAD, VA | | | LOAD, VA | | | BREAKER | | | CIRCUIT TITLE |
| | CKT NO. | AMP | POLE | A | B | C | A | B | C | POLE | AMP | CKT NO. | |
| RCPT, UPPER LEVEL | 1 | 20 | 1 | 1260 | | | 1280 | | | 20 | 1 | 2 | LTS, MECH. ROOM |
| LTS, UPPER LEVEL POLES | 3 | 20 | 1 | | 1140 | | | 700 | | 20 | 1 | 4 | LTS, MECH. ROOM |
| SPARE | 5 | 15* | 1 | | | 625 | | | 1280 | 20 | 1 | 6 | LTS, GRIT PUMP ROOM |
| SPARE | 7 | 15* | 1 | | 625 | | | | | 20 | 1 | 8 | SPARE |
| RCPT, MECH. ROOM | 9 | 20 | 1 | | 540 | | | 0 | | 20 | 1 | 10 | SPARE |
| 20FV6131 | 11 | 15* | 1 | | | 625 | | 650 | 15* | 1 | 12 | UPPER LEVEL AREA B RECEIPT AND SCREENS, LTS. | |
| 20FV6132 | 13 | 15* | 1 | | 625 | | | | 15* | 1 | 14 | SPARE | |
| 20FV6133 | 15 | 15* | 1 | | 625 | | | | 15* | 1 | 16 | SPARE | |
| SPARE | 17 | 15* | 1 | | | 0 | | | 15* | 1 | 18 | SPARE | |
| SPARE | 19 | 15* | 1 | | 0 | | | | 15* | 1 | 20 | SPARE | |
| SPARE | 21 | 15* | 1 | | 0 | | | | 15* | 1 | 22 | SPARE | |
| SPARE | 23 | 15* | 1 | | | 0 | | | 15* | 1 | 24 | SPARE | |
| SPARE | 25 | 15* | 1 | | | | | | 15* | 1 | 26 | SPARE | |
| SPARE | 27 | 15* | 1 | | | | | | 15* | 1 | 28 | SPARE | |
| | | | | | | | | | | | | | |

ELECTRICAL PANELBOARD SCHEDULE

PANEL: 32DP01
VOLTAGE: 480V
BUS SIZE: 400A
MAIN SIZE: N/A

LOCATION: AERATION BLOWER BUILDING
MOUNTING: SURFACE
FED FROM: 32ATS01 VIA MCC-32A OR MCC-32B
MAIN TYPE: LUGS

| CIRCUIT TITLE | BREAKER | | | LOAD, VA | | | LOAD, VA | | | BREAKER | | | CIRCUIT TITLE |
|---------------|---------|-----|------|----------|-------|-------|----------|-------|-------|---------|-----|-----|------------------------|
| | CKT NO. | AMP | POLE | PHASE | | | PHASE | | | POLE | AMP | NO. | |
| 32FCV6001 | 1 | 15 | 3 | 333 | 334 | 333 | 3500 | | | 3 | 20 | 2 | 32UH9901 |
| | 3 | | | | | | | | | | | 4 | |
| 32FCV6002 | 7 | 15 | 3 | 334 | 333 | | | | | 3 | 20 | 10 | 38LCP0801 |
| | 9 | | | | | | | | | | | 12 | LUBRICATION SYSTEM |
| 32FCV6003 | 13 | 15 | 3 | 333 | 333 | | | | | 3 | 20 | 14 | SPARE |
| | 15 | | | | | | | | | | | 16 | |
| 32FCV6004 | 17 | 15 | 3 | 333 | 334 | | | | | 3 | 20 | 18 | SPARE |
| | 19 | | | | | | | | | | | 20 | |
| 32ASU9901 | 23 | 60 | 3 | 10000 | | | 14171 | | | 3 | 150 | 24 | 30DP01 |
| | 27 | | | | | | | | | | | 28 | |
| 32ACC9901 | 29 | 40 | 3 | 8000 | 8000 | | 12666 | | | 3 | 80 | 32 | 32DP02 |
| | 31 | | | | | | | | | | | 33 | |
| 32UPS01 | 35 | 80 | 3 | 15000 | 15000 | | 10000 | | | 3 | 60 | 34 | 32LP01 VIA XFMR 32TX01 |
| | 37 | | | | | | | | | | | 36 | |
| | 39 | | | | | | | | | | | 38 | |
| | 41 | | | | | | | | | | | 40 | |
| | 42 | | | | | | | | | | | 42 | |
| TOTAL LOAD | | | | 34333 | 34333 | 34333 | 40337 | 40337 | 40337 | | | | |

PHASE A LOAD (VA) = 74670
PHASE B LOAD (VA) = 74670
PHASE C LOAD (VA) = 74671
TOTAL LOAD (VA) = 224010
TOTAL LOAD (A) = 269.8

ELECTRICAL PANELBOARD SCHEDULE

PANEL: 32DP01
VOLTAGE: 208Y/120V
BUS SIZE: 100A
MAIN SIZE: 80A

LOCATION: AERATION BLOWER BUILDING
MOUNTING: SURFACE
FED FROM: 32UPS01
MAIN TYPE: BREAKER
NOTE: INSTRUMENTATION PANEL WITH UPS POWER SUPPLY

| CIRCUIT TITLE | BREAKER | | | LOAD, VA | | | LOAD, VA | | | BREAKER | | | CIRCUIT TITLE |
|---------------|---------|-----|------|----------|------|------|----------|------|------|---------|-----|-----|---------------|
| | CKT NO. | AMP | POLE | PHASE | | | PHASE | | | POLE | AMP | NO. | |
| LB-UPS | 1 | 40 | 3 | 1200 | 700 | 1500 | 1470 | 1000 | 800 | 3 | 30 | 2 | 32IP01 |
| | 3 | | | | | | | | | | | 4 | |
| 20IP01 | 7 | 50 | 3 | 3300 | 3010 | | 2180 | 1120 | 1000 | 3 | 30 | 10 | 30IP01 |
| | 9 | | | | | | | | | | | 12 | |
| 95IP01 | 11 | 50 | 3 | 3940 | 3920 | | 2595 | | | 3 | 20 | 14 | SPARE |
| | 13 | | | | | | | | | | | 16 | |
| SPACE | 15 | | | | | | | | | | | 18 | SPACE |
| SPACE | 17 | | | | | | | | | | | 20 | SPACE |
| SPACE | 19 | | | | | | | | | | | 22 | SPACE |
| SPACE | 21 | | | | | | | | | | | 24 | SPACE |
| | 23 | | | | | | | | | | | 24 | |
| TOTAL LOAD | | | | 8440 | 7630 | 6275 | 2270 | 2120 | 1800 | | | | |

PHASE A LOAD (VA) = 10710
PHASE B LOAD (VA) = 9750
PHASE C LOAD (VA) = 8075
TOTAL LOAD (VA) = 28535
TOTAL LOAD (A) = 34.4

ELECTRICAL PANELBOARD SCHEDULE

PANEL: 32LP01
VOLTAGE: 208Y/120V
BUS SIZE: 225A
MAIN SIZE: 110A

LOCATION: AERATION BLOWER BUILDING
MOUNTING: SURFACE
FED FROM: 32DP01 VIA 32TX01
MAIN TYPE: BREAKER
NOTE: LIGHTING AND GENERAL USE PANEL

* DENOTES LOCKABLE DISCONNECT
** DENOTES EGFJ BREAKER WITH 30mA TRIP

| CIRCUIT TITLE | BREAKER | | | LOAD, VA | | | LOAD, VA | | | BREAKER | | | CIRCUIT TITLE |
|---------------------------|---------|-----|------|----------|------|------|----------|------|------|---------|------|-----|-----------------------------|
| | CKT NO. | AMP | POLE | PHASE | | | PHASE | | | POLE | AMP | NO. | |
| SPARE | 1 | 20 | 1 | | | | 1000 | | | 1 | 20** | 2 | VLR HEAT TRACING, SOUTH END |
| 32FACP01 | 3 | 20 | 1 | | 500 | | 500 | | | 1 | 20 | 4 | 32HCP9901 |
| LTS, ELECTRICAL ROOM | 5 | 20 | 1 | | | | | 1600 | | 1 | 20 | 6 | Non-UPS PWIR In BLR-CP01 |
| LTS, BLOWER AND AIR ROOMS | 7 | 20 | 1 | 870 | | | 750 | | | 1 | 20 | 8 | Roll up Door North |
| LTS, EXTERIOR | 9 | 20 | 1 | | 890 | | | 750 | | 1 | 20 | 10 | Roll up Door South |
| RCPTS, INTERIOR | 11 | 20 | 1 | | | | 1440 | | | | | 12 | SPACE |
| RCPTS, EXTERIOR | 13 | 20 | 1 | 540 | | | | | | | | 14 | SPACE |
| SPARE | 15 | 20 | 1 | | 0 | | | | | | | 16 | SPACE |
| SPARE | 17 | 20 | 1 | | | | | | | | | 18 | SPACE |
| SPARE | 19 | 20 | 1 | | 0 | | 0 | | | | | 20 | SPACE |
| SPARE | 21 | 20 | 1 | | 0 | | | | | | | 22 | SPACE |
| SPACE | 23 | | | | | | | | | | | 24 | SPACE |
| SPACE | 25 | | | | | | | | | | | 26 | SPACE |
| SPACE | 27 | | | | | | | | | | | 28 | SPACE |
| SPACE | 29 | | | | | | | | | | | 30 | SPACE |
| TOTAL LOAD | | | | 1410 | 1390 | 2370 | 1750 | 1250 | 1500 | | | | |

PHASE A LOAD (VA) = 3160
PHASE B LOAD (VA) = 2640
PHASE C LOAD (VA) = 3870
TOTAL LOAD (VA) = 9670
TOTAL LOAD (A) = 26.8

ELECTRICAL PANELBOARD SCHEDULE

PANEL: 32DP02
VOLTAGE: 480V
BUS SIZE: 225A
MAIN SIZE: N/A

LOCATION: AERATION BLOWER BUILDING
MOUNTING: SURFACE
FED FROM: 32DP01
MAIN TYPE: LUGS

| CIRCUIT TITLE | BREAKER | | | LOAD, VA | | | LOAD, VA | | | BREAKER | | | CIRCUIT TITLE |
|---------------------------|---------|-----|------|----------|------|------|----------|------|------|---------|-----|-----|-----------------|
| | CKT NO. | AMP | POLE | PHASE | | | PHASE | | | POLE | AMP | NO. | |
| 30G0312, 30G0112, 30G0212 | 1 | 15 | 3 | 1333 | | | | | | 3 | 15 | 2 | SPARE |
| 30FCV6512 VIA 30TJB2B1 | 3 | 20 | 3 | | 1334 | | | | | | | 4 | |
| | 5 | | | | | 1333 | | | | | | 6 | |
| 30G0322, 30G0122, 30G0222 | 7 | 20 | 3 | 1334 | | | | | | 3 | 15 | 8 | SPARE |
| 30FCV6522 VIA 30TJB2C1 | 9 | 20 | 3 | | 1333 | | | | | | | 10 | |
| | 11 | | | | | 1333 | | | | | | 12 | |
| 30G0332, 30G0132, 30G0232 | 13 | 20 | 3 | 1333 | | | 1000 | | | 3 | 15 | 14 | 70FV6001/1/1/21 |
| 30FCV6532 VIA 30TJB2D1 | 15 | 20 | 3 | | 1333 | | 1000 | | | | | 16 | |
| | 17 | | | | | 1334 | | 1000 | | | | 18 | |
| 30G0331, 30G0131, 30G0231 | 19 | 20 | 3 | 1334 | | | 1000 | | | 3 | 15 | 20 | 70FV6002/12/22 |
| 30FCV6531 VIA 30TJB1D1 | 21 | 20 | 3 | | 1333 | | 1000 | | | | | 22 | |
| | 23 | | | | | 1333 | | 1000 | | | | 24 | |
| 30G0321, 30G0121, 30G0221 | 25 | 20 | 3 | 1333 | | | 1000 | | | 3 | 15 | 28 | 72FV6001/1/1/21 |
| 30FCV6521 VIA 30TJB1C1 | 27 | 20 | 3 | | 1333 | | 1000 | | | | | 30 | |
| | 29 | | | | | 1334 | | 1000 | | | | 32 | |
| 30G0321, 30G0121, 30G0221 | 31 | 20 | 3 | 1333 | | | 1000 | | | 3 | 15 | 34 | 72FV6002/1/2/22 |
| 30FCV6521 VIA 30TJB1B1 | 33 | 20 | 3 | | 1334 | | 1000 | | | | | 36 | |
| | 35 | | | | | 1333 | | 1000 | | | | 38 | |
| SPARE | 37 | 20 | 3 | | | | 666 | | | 3 | 15 | 40 | 72FV6201/1/1 |
| | 39 | | | | | | 666 | | | | | 42 | |
| | 41 | | | | | | 666 | | | | | 42 | |
| TOTAL LOAD | | | | 8000 | 8000 | 8000 | 4666 | 4666 | 4666 | | | | |

PHASE A LOAD (VA) = 12666
PHASE B LOAD (VA) = 12666
PHASE C LOAD (VA) = 12666
TOTAL LOAD (VA) = 37998
TOTAL LOAD (A) = 45.8

ELECTRICAL PANELBOARD SCHEDULE

PANEL: 32IP01
VOLTAGE: 208Y/120V
BUS SIZE: 100A
MAIN SIZE: 30A

LOCATION: AERATION BLOWER BUILDING
MOUNTING: SURFACE
FED FROM: 32DP01
MAIN TYPE: BREAKER
NOTE: INSTRUMENTATION PANEL WITH UPS POWER SUPPLY

| CIRCUIT TITLE | BREAKER | | | LOAD, VA | | | LOAD, VA | | | BREAKER | | | CIRCUIT TITLE |
|-----------------------------------|---------|-----|------|----------|-----|-----|----------|-----|-----|---------|-----|-----|--------------------|
| | CKT NO. | AMP | POLE | PHASE | | | PHASE | | | POLE | AMP | NO. | |
| 30AIT4112, 30FIT4012 VIA 30TJB2B3 | 1 | 15 | 1 | 200 | | | 200 | | | 1 | 15 | 2 | 77INST |
| 30AIT4122, 30FIT4022 VIA 30TJB2C3 | 3 | 15 | 1 | | 200 | | | 200 | | 1 | 15 | 4 | 70INST |
| 30AIT4132, 30FIT4032 VIA 30TJB2D3 | 5 | 15 | 1 | | | 200 | | 200 | | 1 | 15 | 6 | SPARE |
| 30AIT4131, 30FIT4031 VIA 30TJB1D3 | 7 | 15 | 1 | 200 | | | 870 | | | 1 | 20 | 8 | BLR-CP01 |
| 30AIT4121, 30FIT4021 VIA 30TJB1C3 | 9 | 15 | 1 | | 200 | | | 200 | | 1 | 20 | 10 | MCC-32A DEVICE NET |
| 30AIT4111, 30FIT4011 VIA 30TJB1B3 | 11 | 15 | 1 | | | 200 | | 200 | | 1 | 20 | 12 | MCC-32B DEVICE NET |
| 32LCP0101 | 13 | 15 | 1 | | | | | | | 1 | 20 | 14 | SPARE |
| 32LCP0102 | 15 | 15 | 1 | | | | | 200 | | 1 | 20 | 16 | MCC-35 DEVICE NET |
| 32LCP0103 | 17 | 15 | 1 | | | | | | | 1 | 20 | 18 | SPACE |
| 32LCP0104 | 19 | 15 | 1 | | | | | | | 1 | 20 | 20 | SPACE |
| SPACE | 21 | | | | | | | | | | | 22 | SPACE |
| SPACE | 23 | | | | | | | | | | | 24 | SPACE |
| TOTAL LOAD | | | | 400 | 400 | 400 | 1070 | 600 | 400 | | | | |

PHASE A LOAD (VA) = 1470
PHASE B LOAD (VA) = 1000
PHASE C LOAD (VA) = 800
TOTAL LOAD (VA) = 3270
TOTAL LOAD (A) = 9.1

ELECTRICAL PANELBOARD SCHEDULE

PANEL: 61LP01
VOLTAGE: 208Y/120V
BUS SIZE: 100A
MAIN SIZE: 100A

LOCATION: W3 BUILDING
MOUNTING: SURFACE
FED FROM: 61TX01
MAIN TYPE: BREAKER
NOTE: PANELBOARD SHALL BE NEMA 4X ENCLOSURE

* DENOTES LOCKABLE DISCONNECT
** DENOTES EGFJ BREAKER WITH 30mA TRIP

| CIRCUIT TITLE | BREAKER | | | LOAD, VA | | | LOAD, VA | | | BREAKER | | | CIRCUIT TITLE | |
|--------------------------|---------|------|------|----------|------|------|----------|-----|-----|---------|-----|-----|--------------------------|-------------|
| | CKT NO. | AMP | POLE | PHASE | | | PHASE | | | POLE | AMP | NO. | | |
| W3 RECEPTACLES | 1 | 20 | 1 | 1800 | | | 576 | | | 1 | 20 | 2 | W3 ROOM LIGHTS | |
| 61P1101/2/3 | 3 | 20 | 1 | | 1080 | | | 300 | | 1 | 20 | 4 | OUTSIDE LIGHTS | |
| HYPOCHLORITE RECEPTACLES | 5 | 20 | 1 | | | 540 | | | 100 | 1 | 20 | 6 | EXIT & EMERGENCY LIGHTS | |
| 61LCP0100 | 7 | 20 | 1 | 100 | | | 400 | | | 1 | 20 | 8 | HYPOCHLORITE AREA LIGHTS | |
| 61HCP9901 | 9 | 20 | 1 | | 250 | | | 400 | | 1 | 20 | 10 | 61HCP9902 | |
| NON-UPS OCB-CP01 | 11 | 20 | 1 | | | | | 400 | | 1 | 20 | 12 | SPARE | |
| 61FACP01 | 13 | 20 | 1 | 200 | | | 250 | | | 1 | 20 | 14 | SPARE | |
| FIRE ALARM BELL | 15 | 20 | 1 | | | | | 100 | | 1 | 20 | 16 | 61FV6011 | |
| HEAT TRACE/EYE WASH | 17 | 20** | 1 | | | | 470 | | | 200 | 1 | 20 | 18 | 61FV6011/02 |
| SPARE | 19 | 20 | 1 | | | | | | | 2 | 20 | 20 | SPACE | |
| SPACE | 21 | 20 | 1 | | | | | | | | | 22 | SPACE | |
| SPACE | 23 | | | | | | | | | | | 24 | SPACE | |
| TOTAL LOAD | | | | 2100 | 1330 | 1260 | 976 | 600 | 700 | | | | | |

PHASE A LOAD (VA) = 3076
PHASE B LOAD (VA) = 2130
PHASE C LOAD (VA) = 1960
TOTAL LOAD (VA) = 7166
TOTAL LOAD (A) = 59.7

ELECTRICAL PANELBOARD SCHEDULE

PANEL: LB-UPS
VOLTAGE: 208Y/120V
BUS SIZE: 100A
MAIN SIZE: 40A

LOCATION: OPERATIONS BUILDING (EXISTING)
MOUNT

| ELECTRICAL PANELBOARD SCHEDULE | | | | | | | | | | | | | | | |
|--|---------|-----|------|--|---------|-------|-----------|-----------|----------|-------|-------|---------|--------------------------------------|---------------|--------------------------------------|
| PANEL: 95DP01 VOLTAGE: 480/277V, 3Ph, 4W. BUS SIZE: 400A MAINS: 400A Main Breaker | | | | LOCATION: CONTROL BUILDING MECHANICAL ROOM MOUNTING: WALL MOUNTED (SURFACE) FED FROM: MCC-95 NOTES: PROVIDE FEED THRU LUGS FOR 95DP02 | | | | | | | | | | | |
| CIRCUIT TITLE | BREAKER | | | LOAD, VA | | | LOAD TYPE | LOAD TYPE | LOAD, VA | | | BREAKER | | CIRCUIT TITLE | |
| | CKT NO. | AMP | POLE | A | B | C | | | A | B | C | POLE | AMP | | CKT NO. |
| HOT WATER HEATER WW-WH-3 | 1 | 30 | 3 | 6,000 | | | H | LM | 8,667 | | | 3 | 45 | 2 | SPLIT SYSTEM HEAT PUMP 95HP9901 |
| ELECTRIC DUCT HEATER 95DH9901 | 7 | 70 | 3 | 14,667 | | | H | M | 5,133 | | | 3 | 30 | 8 | SPLIT SYSTEM COND UNIT 95ACCU9901 |
| INDOOR SPLIT SYSTEM UNIT 95ASU9903 | 11 | 15 | 3 | 1,330 | | | M | M | 2,771 | | | 3 | 15 | 14 | OUTDOOR SPLIT SYSTEM UNIT 95ACCU9902 |
| SPARE | 19 | 15 | 3 | | | | | | | | | 3 | 15 | 20 | SPARE |
| SPARE | 25 | 15 | 3 | | | | | | | | | | | 26 | S P A C E |
| SPARE | 27 | | | | | | | | | | | | | 28 | S P A C E |
| SPARE | 29 | | | | | | | | | | | | | 30 | S P A C E |
| SPARE | 31 | | | | | | | | | | | | | 32 | S P A C E |
| SPARE | 33 | | | | | | | | | | | | | 34 | S P A C E |
| SPARE | 35 | | | | | | | | | | | | | 36 | S P A C E |
| 95LP01 VIA 95TX01 | 37 | 70 | 80 | 13,271 | | | S | S | 6,904 | | | 3 | 80 | 38 | 95LP02 VIA 95TX02 |
| | 39 | | | 12,203 | | | S | S | 7,290 | | | | | 40 | |
| | 41 | | | 10,307 | | | S | S | 5,640 | | | | | 42 | |
| NOTES | | | | TOTAL LOAD | 35268 | 34200 | 32304 | | | 23475 | 23861 | 22211 | PROVIDE FOLLOWING: Feed Thru Lugs | | |
| 1. Panel to be Service Entrance rated | | | | PHASE A LOAD (VA) | 71,689 | | | | | | | | | | |
| | | | | PHASE B LOAD (VA) | 71,007 | | | | | | | | | | |
| | | | | PHASE C LOAD (VA) | 65,181 | | | | | | | | | | |
| | | | | TOTAL LOAD (VA) | 207,878 | | | | | | | | | | |
| | | | | TOTAL AMP(A) | 250.3 | | | | | | | | | | |

| ELECTRICAL PANELBOARD SCHEDULE | | | | | | | | | | | | | | | |
|--|---------|-----|------|---|------|-------|-----------|-----------|----------|-------|------|---------|-----|---------------|---|
| PANEL: 95LP01 VOLTAGE: 208/120V, 3Ph, 4W. BUS SIZE: 225A MAINS: 175A Main Breaker | | | | LOCATION: CONTROL BUILDING MECHANICAL ROOM MOUNTING: WALL MOUNTED (SURFACE) FED FROM: DISTRIBUTION PANEL 95DP01 VIA XFMR 95TX01 | | | | | | | | | | | |
| CIRCUIT TITLE | BREAKER | | | LOAD, VA | | | LOAD TYPE | LOAD TYPE | LOAD, VA | | | BREAKER | | CIRCUIT TITLE | |
| | CKT NO. | AMP | POLE | A | B | C | | | A | B | C | POLE | AMP | | CKT NO. |
| Lighting | 1 | 20 | 1 | 1,141 | | | L | L | 920 | | | 1 | 20 | 2 | Lighting |
| Lighting | 3 | 20 | 1 | 1,421 | | | L | L | 922 | | | 1 | 20 | 4 | Lighting |
| Lighting | 5 | 20 | 1 | | | 240 | L | L | | | | 1 | 20 | 6 | SPARE |
| Recpt. Men RR, Corridor | 7 | 20 | 1 | 1,080 | | | R | R | 720 | | | 1 | 20 | 8 | Recpt. Office |
| Recpt. Laundry Rm (Washing Mach) | 9 | 20 | 1 | 1,200 | | | G | R | 720 | | | 1 | 20 | 10 | Recpt. Office |
| Recpt. Laundry Rm (Dryer) | 11 | 20 | 1 | | | 2,200 | G | R | | 1,080 | | 1 | 20 | 12 | Recpt. Men/Women, Jan, Storage |
| | 13 | 20 | 1 | 2,200 | | | G | G | 1,200 | | | 1 | 20 | 14 | Recpt. Electric Water Cooler |
| Recpt. Exterior (Golf Cart) | 15 | 20 | 1 | 1,600 | | | R | G | 1,200 | | | 1 | 20 | 16 | Recpt. Reifer, Lunch rm |
| Recpt. Women RR, Rest | 17 | 20 | 1 | | | 1,260 | R | G | | 800 | | 1 | 20 | 18 | Recpt. Microwave |
| Recpt. Control Rm, Corridor, Exterior | 19 | 20 | 1 | 900 | | | R | R | 1,080 | | | 1 | 20 | 20 | Recpt. Lunch Rm |
| Recpt. Copy Center, Server Rm. | 21 | 20 | 1 | 360 | | | R | R | 1,260 | | | 1 | 20 | 22 | Recpt. Conf Rm |
| Recpt. Copy Center (Copier) | 23 | 20 | 1 | 1,200 | | | R | R | 720 | | | 1 | 20 | 24 | Recpt. Mech Rm, Exterior |
| Recpt. Copy Center, (Printer) | 25 | 20 | 1 | 1,200 | | | R | R | 540 | | | 1 | 20 | 26 | Recpt. Exterior (Service) |
| Recpt. Control Rm (Plugmold) | 27 | 20 | 1 | 1,080 | | | R | R | 360 | | | 1 | 20 | 28 | Recpt. (Tel) |
| Recpt. Control Rm (Plugmold) | 29 | 20 | 1 | | | 1,080 | R | G | | 100 | | 1 | 20 | 30 | Recpt. Mud Room, Wash Sencsr, auto flushers |
| Recpt. Control Rm (Plugmold) | 31 | 20 | 1 | 1,080 | | | R | R | 540 | | | 1 | 20 | 32 | Recpt. Conference Room (Floor) |
| Recpt. Control Rm (Plugmold) | 33 | 20 | 1 | 1,080 | | | R | G | | 250 | | 1 | 20 | 34 | HVAC Control Panel 95HCP9901 |
| J-Box, Projector Powerlift | 35 | 20 | 1 | | | 1,500 | G | G | | | | 1 | 20 | 36 | CTL-CP01 (GP Power) |
| Front Gate Controller | 37 | 20 | 3 | | | | G | LM | 670 | | | 1 | 20 | 38 | Cabinet Fans 95EF9901, 95EF9903 |
| Front Gate Controller | 39 | 20 | 3 | | | | G | H | 750 | | | 1 | 20 | 40 | Heating Panels 95RH9901, 95RH9902 |
| Front Gate Controller | 41 | 20 | 3 | | | | G | M | | 127 | | 1 | 20 | 42 | Hot Water Circ Pump |
| TOTAL LOAD | | | | 7601 | 6741 | 7480 | | | 5670 | 5462 | 2827 | | | | |
| PHASE A LOAD (VA) | | | | 13,271 | | | | | | | | | | | |
| PHASE B LOAD (VA) | | | | 12,203 | | | | | | | | | | | |
| PHASE C LOAD (VA) | | | | 10,307 | | | | | | | | | | | |
| TOTAL LOAD (VA) | | | | 35,781 | | | | | | | | | | | |
| TOTAL AMP(A) | | | | 99.4 | | | | | | | | | | | |

| ELECTRICAL PANELBOARD SCHEDULE | | | | | | | | | | | | | | | |
|---|---------|-----|------|---|------|-------|-----------|-----------|----------|------|-------|---------|-----|---------------|--|
| PANEL: 95DP02 VOLTAGE: 480/277V, 3Ph, 4W. BUS SIZE: 400A MAINS: MAIN LUGS ONLY | | | | LOCATION: CONTROL BUILDING MECHANICAL ROOM MOUNTING: WALL MOUNTED (SURFACE) FED FROM: DISTRIBUTION PANEL 95DP01 NOTE: FEED THRU LUGS FROM 95DP01 | | | | | | | | | | | |
| CIRCUIT TITLE | BREAKER | | | LOAD, VA | | | LOAD TYPE | LOAD TYPE | LOAD, VA | | | BREAKER | | CIRCUIT TITLE | |
| | CKT NO. | AMP | POLE | A | B | C | | | A | B | C | POLE | AMP | | CKT NO. |
| Terminal Control Unit with Electric Heater 95TCU9901 | 1 | 20 | 3 | 3,667 | | | H | H | 1,667 | | | 3 | 15 | 2 | Terminal Control Unit with Electric Heater 95TCU9904 |
| | 3 | | | 3,667 | | | H | H | 1,667 | | | | | 4 | |
| | 5 | | | | | 3,667 | H | H | | | 1,667 | | | 6 | |
| Terminal Control Unit with Electric Heater 95TCU9902 | 7 | 15 | 3 | 2,167 | | | H | H | 667 | | | 3 | 15 | 8 | Terminal Control Unit with Electric Heater 95TCU9905 |
| | 9 | | | 2,167 | | | H | H | 667 | | | | | 10 | |
| | 11 | | | | | 2,167 | H | H | | | 667 | | | 12 | |
| Terminal Control Unit with Electric Heater 95TCU9903 | 13 | 15 | 3 | 1,833 | | | H | H | 667 | | | 3 | 15 | 14 | Terminal Control Unit with Electric Heater 95TCU9906 |
| | 15 | | | 1,833 | | | H | H | 667 | | | | | 16 | |
| | 17 | | | | | 1,833 | H | H | | | 667 | | | 18 | |
| SPARE | 19 | 20 | 3 | | | | | | | | | 3 | 15 | 20 | SPARE |
| SPARE | 21 | | | | | | | | | | | | | 22 | SPARE |
| SPARE | 23 | | | | | | | | | | | | | 24 | SPARE |
| SPARE | 25 | | | | | | | | 2,280 | | | 2 | 20 | 26 | SITE LIGHTS (CIRCUIT 3) |
| SPARE | 27 | | | | | | | | | | | | | 28 | |
| SPARE | 29 | | | | | | | | | | | | | 30 | S P A C E |
| SPARE | 31 | | | | | | | | | | | | | 32 | S P A C E |
| SPARE | 33 | | | | | | | | | | | | | 34 | S P A C E |
| SPARE | 35 | | | | | | | | | | | | | 36 | S P A C E |
| SPARE | 37 | | | | | | | | | | | | | 38 | S P A C E |
| SPARE | 39 | | | | | | | | | | | | | 40 | S P A C E |
| SPARE | 41 | | | | | | | | | | | | | 42 | S P A C E |
| TOTAL LOAD | | | | 7667 | 7667 | 7667 | | | 5280 | 5280 | 3000 | | | | |
| PHASE A LOAD (VA) | | | | 12,947 | | | | | | | | | | | |
| PHASE B LOAD (VA) | | | | 12,947 | | | | | | | | | | | |
| PHASE C LOAD (VA) | | | | 10,667 | | | | | | | | | | | |
| TOTAL LOAD (VA) | | | | 36,560 | | | | | | | | | | | |
| TOTAL AMP(A) | | | | 44.0 | | | | | | | | | | | |

| ELECTRICAL PANELBOARD SCHEDULE | | | | | | | | | | | | | | | |
|--|---------|-----|------|---|------|-------|-----------|-----------|----------|------|------|---------|-----|---------------|--------------------------------|
| PANEL: 95LP02 VOLTAGE: 208/120V, 3Ph, 4W. BUS SIZE: 225A MAINS: 175A Main Breaker | | | | LOCATION: CONTROL BUILDING MECHANICAL ROOM MOUNTING: WALL MOUNTED (SURFACE) FED FROM: DISTRIBUTION PANEL 95DP01 VIA XFMR 95TX02 | | | | | | | | | | | |
| CIRCUIT TITLE | BREAKER | | | LOAD, VA | | | LOAD TYPE | LOAD TYPE | LOAD, VA | | | BREAKER | | CIRCUIT TITLE | |
| | CKT NO. | AMP | POLE | A | B | C | | | A | B | C | POLE | AMP | | CKT NO. |
| Recpt. Lab (Plugmold) | 1 | 20 | 1 | 1,080 | | | R | G | 600 | | | 1 | 20 | 2 | Recpt Refrigerator |
| Recpt. Lab (Plugmold) | 3 | 20 | 1 | 1,080 | | | R | R | 1,080 | | | 1 | 20 | 4 | Recpt. (Dedicated) |
| Recpt. Lab (Plugmold) | 5 | 20 | 1 | | | 1,080 | R | R | | 720 | | 1 | 20 | 6 | Recpt. (Dedicated) |
| Recpt. Lab (Plugmold) | 7 | 20 | 1 | 1,080 | | | R | R | 720 | | | 1 | 30 | 8 | Recpt. (Dedicated) |
| Recpt. Lab (Plugmold) | 9 | 20 | 1 | 1,080 | | | R | R | 720 | | | 1 | 20 | 10 | Recpt. (Dedicated) |
| Recpt. Lab (Plugmold) | 11 | 20 | 1 | 1,080 | | | R | R | 720 | | | 1 | 20 | 12 | Recpt. (Dedicated) |
| Recpt. Lab (Plugmold) | 13 | 20 | 1 | 1,080 | | | R | R | 720 | | | 1 | 20 | 14 | Recpt. (Dedicated) |
| Recpt. Lab (Plugmold) | 15 | 20 | 1 | 1,080 | | | R | LM | 750 | | | 1 | 20 | 16 | Recpt. Vacuum Pump |
| Recpt. Lab (Plugmold) | 17 | 20 | 1 | | | 1,080 | R | LM | | 750 | | 1 | 20 | 18 | Recpt. Air Pump |
| Front Gate Operator | 19 | 20 | 3 | | | | L | L | 124 | | | 1 | 20 | 20 | Lighting |
| Front Gate Operator | 21 | 20 | 3 | | | | | | | | | 1 | 20 | 22 | Irrigation control panel |
| Front Gate Operator | 23 | 20 | 3 | | | | | | | 210 | | 1 | 20 | 24 | Backflow preventer Bldg. Recpt |
| Auto flush toilets So. | 25 | 20 | 1 | | | | | | 1,500 | | | 2 | 30 | 26 | Backflow preventer Bldg. Heat |
| S P A C E | 27 | | | | | | | | | | | 2 | 30 | 28 | Backflow preventer Bldg. Heat |
| S P A C E | 29 | | | | | | | | | | | 1 | 20 | 30 | Water meter vault sump pump |
| TOTAL LOAD | | | | 3240 | 3240 | 3240 | | | 3664 | 4050 | 2400 | | | | |
| PHASE A LOAD (VA) | | | | 6,904 | | | | | | | | | | | |
| PHASE B LOAD (VA) | | | | 7,290 | | | | | | | | | | | |
| PHASE C LOAD (VA) | | | | 5,640 | | | | | | | | | | | |
| TOTAL LOAD (VA) | | | | 19,834 | | | | | | | | | | | |
| TOTAL AMP(A) | | | | 55.1 | | | | | | | | | | | |

| ELECTRICAL PANELBOARD SCHEDULE | | | | | | | | | | | | | |
|---|--|--|--|---|--|--|--|--|--|--|--|--|--|
| PANEL: 95IP01 VOLTAGE: 208/120V, 3Ph, 4W. BUS SIZE: 100A MAINS: 50A MAIN BREAKER | | | | LOCATION: CONTROL BUILDING SERVER ROOM MOUNTING: WALL MOUNTED (SURFACE) FED FROM: 32DPI01 | | | | | | | | | |

| SITE ROUTED CIRCUIT SCHEDULE | | | | | | |
|------------------------------|--------------------------------|----------------------------|---------------------------------|-----------------------------|---|----------------------------------|
| CIRCUIT NAME | FACILITY CIRCUIT ORIGINATES IN | FROM | TO | CONDUCTORS | NOTES | DUCTBANKS CABLE IS IN |
| 07AIT3001(A) | 07 | IPS-CP01 | 07AIT3001 | 2 TYPE 3 | VIA 07PBX01A/10PBX01A | TT, H |
| 07AIT3011(A) | 07 | IPS-CP01 | 07AIT3011 | 2 TYPE 3 | VIA 07PBX01A/10PBX01A | TT, H |
| 07AIT3021(A) | 07 | IPS-CP01 | 07AIT3021 | 2 TYPE 3 | VIA 07PBX01A/10PBX01A | TT, H |
| 07CS0101(C) | 07 | MCC-6C | 07P0101 | 3/C TYPE 1 | VIA 07PBX01/10PBX01 | TT, H |
| 07CS0102(C) | 07 | MCC-6D | 07P0102 | 3/C TYPE 1 | VIA 07PBX01/10PBX01 | TT, H |
| 07G0111(C) | 07 | IPS-CP01 | 07G0111 | 9/C TYPE 1 | VIA 07PBX01/10PBX01 | TT, H |
| 07G0111(P) | 07 | 10DP01 | 07G0111 | 4/C#12 TYPE 2 | VIA 07PBX01/10PBX01 | TT, H |
| 07INST(P) | 07 | 10IP01 | 07PBX01 | 3/C#12 TYPE 2 | VIA 10PBX01; TERMINATE AT 07PBX01. ROUTE TO ANALYZERS | TT, H |
| 07P0101(P) | 07 | MCC-6C | 07P0101 | 4/C#12 TYPE 2 | VIA 07PBX01/10PBX01 | TT, H |
| 07P0102(P) | 07 | MCC-6D | 07P0102 | 4/C#12 TYPE 2 | VIA 07PBX01/10PBX01 | TT, H |
| 07S0121(C) | 07 | IPS-CP01 | 07S0121 | 3/C TYPE 1 | VIA 07PBX01/10PBX01 | TT, H |
| 07TX01(P) | 07 | 10DP01 | 07TX01 | 4/C#12 TYPE 2 | VIA 07PBX01/10PBX01 | TT, H |
| 10/60 FACP(C) | 10 | 10FACP01 | 60FACP01 | MANUFACTURER SUPPLIED CABLE | PROVIDED BY SYSTEM SUPPLIER, VIA 10PBX01A/60PBX01A | H, I |
| IPS/HDW FIBER(C) | 10 | IPS-CP01 | HDW-CP01 | 24 FIBER MULTI-MODE CABLE | | BB, AA, F |
| W-3/IPS FIBER(C) | 10 | IPS-CP01 | CCB-CP01 | 24 FIBER MULTI-MODE CABLE | | H, I |
| 72PIT3101(A) | 15 | 72PIT3101 | VLR-CP01 | 1 TYPE 3 | | U, CC, J |
| BIO FIRE (C) | 15 | BIOSOLIDS FIRE ALARM PANEL | OPERATION BUILDING ALARM DIALER | 4 PAIR TELEPHONE CABLE | | U, CC, DD, T, RR, FF, GG, HH, II |
| BIO TELCO(C) | 15 | BIOSOLIDS TELEPHONE TB | OPERATIONS BLDG TELEPHONE TB | 25 PAIR TELEPHONE CABLE | | U, CC, DD, T, RR, FF, GG, HH, II |
| BIO/95 FACP(C) | 15 | BIOSOLIDS FACP | 95FACP01 | MANUFACTURER SUPPLIED CABLE | PROVIDED BY SYSTEM SUPPLIER | U, CC, DD, T, RR, K |
| BIO/FPP FIBER(C) | 15 | BIOSOLIDS FIBER CABINET | FPP IN PHONE ROOM AT OPS | 24 FIBER MULTI-MODE CABLE | | U, CC, DD, T, RR, FF, GG, HH, II |
| MCC-10A(P1) | 15 | MCC-10A | SWBD-2 | 3-400MCM, 1#1/0G | VIA EXISTING HH-3 AT IPS | U, V, V, N, O, P |
| MCC-10A(P2) | 15 | MCC-10A | SWBD-2 | 3-400MCM, 1#1/0G | VIA EXISTING HH-3 AT IPS | U, V, V, N, O, P |
| 20/10 FACP(C) | 20 | 20FACP01 | 10FACP01 | MANUFACTURER SUPPLIED CABLE | PROVIDED BY SYSTEM SUPPLIER | F, AA, BB |
| 20IP01(P) | 20 | 20IP01 | 32DP101 | 4#3, 1#8G | | F, G, C |
| HDW/BLR FIBER(C) | 20 | HDW-CP01 | BLR-CP01 | 24 FIBER MULTI-MODE CABLE | | C, G, F |
| MCC-20A(P1) | 20 | SWGR-32A | MCC-20A | 3-350MCM, 1#3/0G | | C, G, F |
| MCC-20A(P2) | 20 | SWGR-32A | MCC-20A | 3-350MCM, 1#3/0G | | C, G, F |
| MCC-20A(P3) | 20 | SWGR-32A | MCC-20A | 3-350MCM, 1#3/0G | | C, G, F |
| MCC-20A(P4) | 20 | SWGR-32A | MCC-20A | 3-350MCM, 1#3/0G | | C, G, F |
| MCC-20B(P1) | 20 | SWGR-32B | MCC-20B | 3-350MCM, 1#3/0G | | C, G, F |
| MCC-20B(P2) | 20 | SWGR-32B | MCC-20B | 3-350MCM, 1#3/0G | | C, G, F |
| MCC-20B(P3) | 20 | SWGR-32B | MCC-20B | 3-350MCM, 1#3/0G | | C, G, F |
| MCC-20B(P4) | 20 | SWGR-32B | MCC-20B | 3-350MCM, 1#3/0G | | C, G, F |
| 30AIT4411(A) | 30 | 30AIT4111 | BLR-CP01 | 1-TYPE 3 | VIA J-BOX LOCATED NEAR 30AIT4511 | A, C |
| 30AIT4412(A) | 30 | 30AIT4112 | BLR-CP01 | 1-TYPE 3 | VIA J-BOX LOCATED NEAR 30AIT4512 | SS, A, C |
| 30AIT4511(A) | 30 | 30AIT4511 | BLR-CP01 | 1-TYPE 3 | VIA J-BOX LOCATED NEAR 30AIT4511 | A, C |
| 30AIT4512(A) | 30 | 30AIT4512 | BLR-CP01 | 1-TYPE 3 | VIA J-BOX LOCATED NEAR 30AIT4512 | SS, A, C |
| 30CS1511(C) | 30 | 30CS1511 | MCC-32A | 7C TYPE 1 | VIA 30PBX1B1 | SS, A, C |

| SITE ROUTED CIRCUIT SCHEDULE | | | | | | |
|------------------------------|--------------------------------|--------------|-------------|-----------------------------|--------------------------------------|-----------------------|
| CIRCUIT NAME | FACILITY CIRCUIT ORIGINATES IN | FROM | TO | CONDUCTORS | NOTES | DUCTBANKS CABLE IS IN |
| 30CS1612(C) | 30 | 30CS1612 | MCC-32B | 7C TYPE 1 | VIA 30PBX2B1 | SS, A, C |
| 30CS1621(C) | 30 | 30CS1621 | MCC-32B | 7C TYPE 1 | VIA 30PBX1C1 | SS, A, C |
| 30CS1622(C) | 30 | 30CS1622 | MCC-32B | 7C TYPE 1 | VIA 30PBX2C1 | SS, A, C |
| 30CS1631(C) | 30 | 30CS1631 | MCC-32B | 7C TYPE 1 | VIA 30PBX1D1 | SS, A, C |
| 30CS1632(C) | 30 | 30CS1632 | MCC-32B | 7C TYPE 1 | VIA 30PBX2D1 | SS, A, C |
| 30CS2011(C) | 30 | 30CS2011 | MCC-32B | 12C TYPE 1 | | B, C |
| 30CS2011(P) | 30 | 30CS2011 | MCC-32B | 3#6, 1#10G | | B, C |
| 30DP01(P) | 30 | 30DP01 | 32DP01 | 3#1/0, 1#6G | | B, C |
| 30HEA101(P) | 30 | HEAT TRACING | 32LP01 | 3#10 TYPE 2 | HEAT TRACING AT SOUTH END OF VLRS | SS, A, C |
| 30IP01(P) | 30 | 30IP01 | 32DP101 | 4#6, 1#10G | | B, C |
| 30LCP0801(P) | 30 | 30LCP0801 | 32DP01 | 3#10 TYPE 2 | VIA 30PBX1D1 | SS, A, C |
| 30M1511(P) | 30 | 30M1511 | MCC-32A | 3#6, 1#8G | VIA 30PBX1B1 | SS, A, C |
| 30M1512(P) | 30 | 30M1512 | MCC-32A | 3#4, 1#8G | VIA 30PBX2B1 | SS, A, C |
| 30M1521(P) | 30 | 30M1521 | MCC-32A | 3#6, 1#8G | VIA 30PBX1C1 | SS, A, C |
| 30M1522(P) | 30 | 30M1522 | MCC-32A | 3#4, 1#8G | VIA 30PBX2C1 | SS, A, C |
| 30M1531(P) | 30 | 30M1531 | MCC-32A | 3#6, 1#8G | VIA 30PBX1D1 | SS, A, C |
| 30M1532(P) | 30 | 30M1532 | MCC-32A | 3#6, 1#8G | VIA 30PBX2D1 | SS, A, C |
| 30M1611(P) | 30 | 30M1611 | MCC-32B | 3#6, 1#8G | VIA 30PBX1B1 | SS, A, C |
| 30M1612(P) | 30 | 30M1612 | MCC-32B | 3#4, 1#8G | VIA 30PBX2B1 | SS, A, C |
| 30M1621(P) | 30 | 30M1621 | MCC-32B | 3#6, 1#8G | VIA 30PBX1C1 | SS, A, C |
| 30M1622(P) | 30 | 30M1622 | MCC-32B | 3#4, 1#8G | VIA 30PBX2C1 | SS, A, C |
| 30M1631(P) | 30 | 30M1631 | MCC-32B | 3#6, 1#8G | VIA 30PBX1D1 | SS, A, C |
| 30M1632(P) | 30 | 30M1632 | MCC-32B | 3#6, 1#8G | VIA 30PBX2D1 | SS, A, C |
| 30TJB1B1(C) | 30 | 30PBX1B1 | BLR-CP01 | 19C TYPE 1 | TJB IS INSIDE PULLBOX | SS, A, C |
| 30TJB1B1(P) | 30 | 30PBX1B1 | 32DP02 | 4C#10 TYPE 2 | TJB IS INSIDE PULLBOX | SS, A, C |
| 30TJB1B3(P) | 30 | 30TJB1B3 | 32IP01 | 3C#10 TYPE 2 | VIA 30PBX1B1 | SS, A, C |
| 30TJB1B4(A) | 30 | 30TJB1B4 | BLR-CP01 | 1-8PAIR TYPE 5 | | SS, A, C |
| 30TJB1C1(C) | 30 | 30PBX1C1 | BLR-CP01 | 19C TYPE 1 | TJB IS INSIDE PULLBOX | SS, A, C |
| 30TJB1C1(P) | 30 | 30PBX1C1 | 32DP02 | 4C#10 TYPE 2 | TJB IS INSIDE PULLBOX | SS, A, C |
| 30TJB1C3(P) | 30 | 30TJB1C3 | 32IP01 | 3C#10 TYPE 2 | VIA 30PBX1C1 | SS, A, C |
| 30TJB1C4(A) | 30 | 30TJB1C4 | BLR-CP01 | 1-8PAIR TYPE 5 | | SS, A, C |
| 30TJB1D1(C) | 30 | 30PBX1D1 | BLR-CP01 | 25C TYPE 1 | TJB IS INSIDE PULLBOX | SS, A, C |
| 30TJB1D1(P) | 30 | 30PBX1D1 | 32DP02 | 4C#10 TYPE 2 | TJB IS INSIDE PULLBOX | SS, A, C |
| 30TJB1D3(P) | 30 | 30TJB1D3 | 32IP01 | 3C#10 TYPE 2 | VIA 30PBX1D1 | SS, A, C |
| 30TJB1D4(A) | 30 | 30TJB1D4 | BLR-CP01 | 1-8PAIR TYPE 5 | | SS, A, C |
| 30TJB2B1(C) | 30 | 30PBX2B1 | BLR-CP01 | 19C TYPE 1 | TJB IS INSIDE PULLBOX | SS, A, C |
| 30TJB2B1(P) | 30 | 30PBX2B1 | 32DP02 | 4C#10 TYPE 2 | TJB IS INSIDE PULLBOX | SS, A, C |
| 30TJB2B3(P) | 30 | 30TJB2B3 | 32IP01 | 3C#10 TYPE 2 | VIA 30PBX2B1 | SS, A, C |
| 30TJB2B4(A) | 30 | 30TJB2B4 | BLR-CP01 | 1-8PAIR TYPE 5 | | SS, A, C |
| 30TJB2C1(C) | 30 | 30PBX2C1 | BLR-CP01 | 19C TYPE 1 | TJB IS INSIDE PULLBOX | SS, A, C |
| 30TJB2C1(P) | 30 | 30PBX2C1 | 32DP02 | 4C#10 TYPE 2 | TJB IS INSIDE PULLBOX | SS, A, C |
| 30TJB2C3(P) | 30 | 30TJB2C3 | 32IP01 | 3C#10 TYPE 2 | VIA 30PBX2C1 | SS, A, C |
| 30TJB2C4(A) | 30 | 30TJB2C4 | BLR-CP01 | 1-8PAIR TYPE 5 | | SS, A, C |
| 30TJB2D1(C) | 30 | 30PBX2D1 | BLR-CP01 | 19C TYPE 1 | TJB IS INSIDE PULLBOX | SS, A, C |
| 30TJB2D1(P) | 30 | 30PBX2D1 | 32DP02 | 4C#10 TYPE 2 | TJB IS INSIDE PULLBOX | SS, A, C |
| 30TJB2D3(P) | 30 | 30TJB2D3 | 32IP01 | 3C#10 TYPE 2 | VIA 30PBX2D1 | SS, A, C |
| 30TJB2D4(A) | 30 | 30TJB2D4 | BLR-CP01 | 1-8PAIR TYPE 5 | | SS, A, C |
| 30TJB4511(P) | 30 | 30TJB4511 | 32IP01 | 3C#10 TYPE 2 | | A, C |
| 30TJB4512(P) | 30 | 30TJB4512 | 32IP01 | 3C#10 TYPE 2 | | SS, A, C |
| 38CS0201(C) | 30 | 38CS0201 | MCC-32B | 12C TYPE 1 | | B, C |
| 38P0201(P) | 30 | 38CS0201 | MCC-32B | 4C#10, TYPE 2 | | B, C |
| VLR/BLR FIBER(C) | 30 | VLR-CP01 | BLR-CP01 | 24 FIBER MULTI-MODE CABLE | | B, C |
| 32/20 FACP(C) | 32 | 32FACP01 | 20FACP01 | MANUFACTURER SUPPLIED CABLE | PROVIDED BY SYSTEM SUPPLIER | C, G, F |
| 77FIT3211(A) | 35 | BLR-CP01 | 77FIT3211 | 1 TYPE 3 | VIA 35PBX01A | M |
| 77FIT3212(A) | 35 | BLR-CP01 | 77FIT3212 | 1 TYPE 3 | VIA 35PBX01A | M |
| 77FIT3213(A) | 35 | BLR-CP01 | 77FIT3213 | 1 TYPE 3 | VIA 35PBX01A | M |
| 77FIT3214(A) | 35 | BLR-CP01 | 77FIT3214 | 1 TYPE 3 | VIA 35PBX01A | M |
| 77FV3211(C) | 35 | BLR-CP01 | 77FV3211 | 9/C TYPE 1 | VIA 35PBX01 | M |
| 77FV3212(C) | 35 | BLR-CP01 | 77FV3212 | 9/C TYPE 1 | VIA 35PBX01 | M |
| 77FV3213(C) | 35 | BLR-CP01 | 77FV3213 | 9/C TYPE 1 | VIA 35PBX01 | M |
| 77FV3214(C) | 35 | BLR-CP01 | 77FV3214 | 9/C TYPE 1 | VIA 35PBX01 | M |
| 77INST(P) | 35 | 32IP01 | 35PBX01 | 3/C TYPE 2 | TERMINATE IN 35PBX01 FOR INSTRUMENTS | M |
| 77PDSH3031(C) | 35 | BLR-CP01 | 77PDSH3031 | 3-#14 | VIA 35PBX01 | M |
| 77PDSH3032(C) | 35 | BLR-CP01 | 77PDSH3032 | 3-#14 | VIA 35PBX01 | M |
| 77PDSH3131(C) | 35 | BLR-CP01 | 77PDSH3131 | 3-#14 | VIA 35PBX01 | M |
| 77PDSH3132(C) | 35 | BLR-CP01 | 77PDSH3132 | 3-#14 | VIA 35PBX01 | M |
| 77PSH3051(C) | 35 | BLR-CP01 | 77PSH3051 | 3-#14 | VIA 35PBX01 | M |
| 77PSH3052(C) | 35 | BLR-CP01 | 77PSH3052 | 3-#14 | VIA 35PBX01 | M |
| 77PSH3151(C) | 35 | BLR-CP01 | 77PSH3151 | 3-#14 | VIA 35PBX01 | M |
| 77PSH3152(C) | 35 | BLR-CP01 | 77PSH3152 | 3-#14 | VIA 35PBX01 | M |
| 77TS3041(C) | 35 | BLR-CP01 | 77TS3041 | 3-#14 | VIA 35PBX01 | M |
| 77TS3042(C) | 35 | BLR-CP01 | 77TS3042 | 3-#14 | VIA 35PBX01 | M |
| 77ZS3301(C) | 35 | BLR-CP01 | 77ZS3301(C) | 2-#14 | VIA 35PBX01 | M |
| 77ZS3302(C) | 35 | BLR-CP01 | 77ZS3302(C) | 2-#14 | VIA 35PBX01 | M |

Site Routed Circuit Schedule Notes:

- This schedule only includes underground circuits. For above ground circuits, refer to the riser diagrams.
- All circuits that are routed around the site in ductbanks are listed and defined within this schedule.
- The circuits are in order by the "Facility the Circuit Originates in" and then in numerical order for all circuits originating from that facility.
- The circuits in this schedule are identified on one-line diagrams or riser diagrams in the documents showing the to and from point of each circuit. The conduit requirements for each circuit are identified in the site routed conduit schedule.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KANDI L. MAESTRI, STATE OF OREGON, P.E. NO. 53785PE

| | | | | | | | | | |
|------------------------------|-----|----------|---|----|------|-----|-----|---|--|
| DSGN B RODGERS KL MAESTRI | | | | | | | | | |
| DR JE HAMNER G DEBOIS | | | | | | | | | |
| CHK JB MAURIS | | | | | | | | | |
| APVD CW MASSIE | NO. | DATE | REVISION | BY | APVD | GRW | KLM | VERIFY SCALE | |
| | | 01/20/10 | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | | | | | BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | |



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

ELECTRICAL
SITE ROUTED CIRCUIT SCHEDULE

| | |
|-------|-------------|
| SHEET | 464 |
| DWG | 91-E-551 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

| SITE ROUTED CIRCUIT SCHEDULE | | | | | | |
|------------------------------|--------------------------------|----------------|-------------------|------------------|---|-----------------------|
| CIRCUIT NAME | FACILITY CIRCUIT ORIGINATES IN | FROM | TO | CONDUCTORS | NOTES | DUCTBANKS CABLE IS IN |
| | | | | | | |
| 77TSH3142(C) | 35 | BLR-CP01 | 77TSH3142 | 3#14 | VIA 35PBX01 | M |
| MCC-1(C1) | 35 | MCC-1(EXST) | MCC-32A | DEVICE NET CABLE | | M |
| MCC-1(C2) | 35 | MCC-1(EXST) | MCC-32B | DEVICE NET CABLE | | M |
| SWBD1A(P) | 35 | SWGR-32A | MCC-35 | 3-350MCM+1/0G | | OO |
| SWBD1B(P) | 35 | SWGR-32A | MCC-35 | 3-350MCM+1/0G | | OO |
| SWBD1C(P) | 35 | SWGR-32A | MCC-35 | 3-350MCM+1/0G | | OO |
| 38G0101(C) | 38 | HDW-CP01 | 38G0101 | 9/C TYPE 1 | VIA 38PBX01 | E, F |
| 38G0101/2(P) | 38 | 20DP02 | 38PBX01 | 4C#12 TYPE 2 | TERMINATE AT 38PBX01 | E, F |
| 38G0102(C) | 38 | HDW-CP01 | 38G0102 | 9/C TYPE 1 | VIA 38PBX01 | E, F |
| 38G0103(C) | 38 | HDW-CP01 | 38G0103 | 9/C TYPE 1 | VIA 38PBX01 | E, F |
| 38G0103/402(P) | 38 | 20DP02 | 38PBX01 | 4C#12 TYPE 2 | TERMINATE AT 38PBX01 | E, F |
| 38G0402(C) | 38 | HDW-CP01 | 38G0402 | 9/C TYPE 1 | VIA 38PBX01 | E, F |
| 38LSH3301(C) | 38 | HDW-CP01 | 38LSH3301 | 3/C TYPE 1 | VIA 38PBX01 | E, F |
| 45CS0101(C) | 45-1 | MCC-20A | 45CS0101 | 3/C TYPE 1 | VIA 45PBX01 | D, E, F |
| 45CS1101(P) | 45-1 | MCC-20A | 45CS1101 | 4/C #12 TYPE 2 | VIA 45PBX01 | D, E, F |
| 45CS1101A(C) | 45-1 | MCC-20A | 45CS1101 | 9/C TYPE 1 | VIA 45PBX01 | D, E, F |
| 45CS1101B(C) | 45-1 | HDW-CP01 | 45CS1101 | 19/C TYPE 1 | VIA 45PBX01 | D, E, F |
| 45FV6001/11(P) | 45-1 | 20DP02 | 45PBX01 | 4/C #12 TYPE 2 | POWER FOR 45FV6001/11 | D, E, F |
| 45FV8101(C) | 45-1 | HDW-CP01 | 45FV8101 | 3/C TYPE 1 | VIA 45PBX01 | D, E, F |
| 45G0111(C) | 45-1 | HDW-CP01 | 45G0111 | 9/C TYPE 1 | VIA 45PBX01 | D, E, F |
| 45G0111(P) | 45-1 | 20DP02 | 45G0111 | 4/C #12 TYPE 2 | VIA 45PBX01 | D, E, F |
| 45INST1(P) | 45-1 | 20IP01 | 45PBX01 | 3/C #12 TYPE 2 | TERMINATE IN 45PBX01 FOR 50FIT3011, 45LT3001, 50LIT3011 | D, E, F |
| 45LIT3001(A) | 45-1 | HDW-CP01 | 45LIT3001 | 1 TYPE 3 | VIA 45PBX01A | D, E, F |
| 45M0101(C) | 45-1 | MCC-20A | 45M0101 | 7/C TYPE 1 | VIA 45PBX01 | D, E, F |
| 45M0101(P) | 45-1 | MCC-20A | 45M0101 | 4/C #12 TYPE 2 | VIA 45PBX01 | D, E, F |
| 45ZS3101(C) | 45-1 | HDW-CP01 | 45ZS3101 | 3/C TYPE 1 | VIA 45PBX01 | D, E, F |
| 50CS0101(C) | 45-1 | MCC-20A | 50CS0101 | 9/C TYPE 1 | VIA 45PBX01 | D, E, F |
| 50CS0101(P) | 45-1 | MCC-20A | 50CS0101 | 3-#1/0, #6G | VIA 45PBX01 | D, E, F |
| 50CS0201(C) | 45-1 | MCC-20B | 50CS0201 | 9/C TYPE 1 | VIA 45PBX01 | D, E, F |
| 50CS0201(P) | 45-1 | MCC-20B | 50CS0201 | 3-#1/0, #6G | VIA 45PBX01 | D, E, F |
| 50FIT3021(A) | 45-1 | HDW-CP01 | 50FIT3011 | 1 TYPE 3 | VIA 45PBX01A | D, E, F |
| 50LIT3021(C) | 45-1 | 50LIT3021 | HDW-CP01 | 3/C TYPE 1 | VIA 45PBX01 | D, E, F |
| 50LIT3021(A) | 45-1 | HDW-CP01 | 50LIT3021 | 1 TYPE 3 | VIA 45PBX01A | D, E, F |
| 45HEATA1(P) | 45-1 | 20LP02 | HEAT TRACE RECEPT | 3/C#10 TYPE 2 | VIA 45PBX01 | D, E, F |
| 45HEATB1(P) | 45-1 | 20LP02 | HEAT TRACE RECEPT | 3/C#10 TYPE 2 | VIA 45PBX01 | D, E, F |
| 45HEATC1(P) | 45-1 | 20LP02 | HEAT TRACE RECEPT | 3/C# 8 TYPE 2 | VIA 45PBX01 | D, E, F |
| 45RECEPTA1(P) | 45-1 | 20LP02 | 45PBX01 | 3/C#10 TYPE 2 | TERMINATE IN 45PBX01 FOR RECEPTACLES | D, E, F |
| 45RECEPTB1(P) | 45-1 | 20DP02 | 480 VOLT RECEPT | 3/C#12 TYPE 2 | VIA 45PBX01 | D, E, F |
| 45LIGHTS1(P) | 45-1 | LTG. CONTROLER | LIGHTS | 3/C#10 TYPE 2 | VIA 45PBX01 | D, E, F |
| 45CS0102(C) | 45-2 | MCC-20B | 45CS0102 | 3/C TYPE 1 | VIA 45PBX02 | JJ, F |
| 45CS1102(P) | 45-2 | MCC-20B | 45CS1102 | 4/C #12 TYPE 2 | VIA 45PBX02 | JJ, F |
| 45CS1102A | 45-2 | MCC-20B | 45CS1102 | 9/C TYPE 1 | VIA 45PBX02 | JJ, F |
| 45CS1102B(C) | 45-2 | HDW-CP01 | 45CS1102 | 19/C TYPE 1 | VIA 45PBX02 | JJ, F |
| 45FV6002/12(P) | 45-2 | 20DP02 | 45PBX02 | 4/C #12 TYPE 2 | POWER FOR 45FV6002/12 | JJ, F |
| 45FV8102(C) | 45-2 | HDW-CP01 | 45FV8102 | 3/C TYPE 1 | VIA 45PBX02 | JJ, F |
| 45G0112(C) | 45-2 | HDW-CP01 | 45G0112 | 9/C TYPE 1 | VIA 45PBX02 | JJ, F |
| 45G0112(P) | 45-2 | 20DP02 | 45G0112 | 4/C #12 TYPE 2 | VIA 45PBX02 | JJ, F |
| 45INST2(P) | 45-2 | 20IP01 | 45PBX02 | 3/C #12 TYPE 2 | TERMINATE IN 45PBX02 FOR 50FIT3012/22, 45LT3002 | JJ, F |
| 45LIT3002(A) | 45-2 | HDW-CP01 | 45LIT3002 | 1 TYPE 3 | VIA 45PBX02A | JJ, F |
| 45M0102(C) | 45-2 | MCC-20B | 45M0102 | 7/C TYPE 1 | VIA 45PBX02 | JJ, F |
| 45M0102(P) | 45-2 | MCC-20B | 45M0102 | 4/C #12 TYPE 2 | VIA 45PBX02 | JJ, F |
| 45ZS3102(C) | 45-2 | HDW-CP01 | 45ZS3102 | 3/C TYPE 1 | VIA 45PBX02 | JJ, F |
| 50CS0102(C) | 45-2 | MCC-20A | 50CS0102 | 9/C TYPE 1 | VIA 45PBX02 | JJ, F |
| 50CS0102(P) | 45-2 | MCC-20A | 50CS0102 | 3-#1/0, #6G | VIA 45PBX02 | JJ, F |
| 50CS0202(C) | 45-2 | MCC-20B | 50CS0202 | 9/C TYPE 1 | VIA 45PBX02 | JJ, F |
| 50CS0202(P) | 45-2 | MCC-20B | 50CS0202 | 3-#1/0, #6G | VIA 45PBX02 | JJ, F |
| 50FIT3012(A) | 45-2 | HDW-CP01 | 50FIT3012 | 1 TYPE 3 | VIA 45PBX02A | JJ, F |
| 50LIT3022(C) | 45-2 | 50LIT3022 | HDW-CP01 | 3/C TYPE 1 | VIA 45PBX02 | JJ, F |
| 50LIT3022(A) | 45-2 | HDW-CP01 | 50LIT3022 | 1 TYPE 3 | VIA 45PBX02A | JJ, F |
| 45HEATA2(P) | 45-2 | 20LP02 | HEAT TRACE RECEPT | 3/C#10 TYPE 2 | VIA 45PBX02 | JJ, F |
| 45HEATB2(P) | 45-2 | 20LP02 | HEAT TRACE RECEPT | 3/C#10 TYPE 2 | VIA 45PBX02 | JJ, F |
| 45HEATC2(P) | 45-2 | 20LP02 | HEAT TRACE RECEPT | 3/C# 8 TYPE 2 | VIA 45PBX02 | JJ, F |
| 45RECEPTA2(P) | 45-2 | 20LP02 | 45PBX02 | 3/C#10 TYPE 2 | TERMINATE IN 45PBX02 FOR RECEPTACLES | JJ, F |
| 45RECEPTB2(P) | 45-2 | 20DP02 | 480 VOLT RECEPT | 3/C#12 TYPE 2 | VIA 45PBX02 | JJ, F |
| 45LIGHTS2(P) | 45-2 | LTG. CONTROLER | LIGHTS | 3/C#10 TYPE 2 | VIA 45PBX02 | JJ, F |

| SITE ROUTED CIRCUIT SCHEDULE | | | | | | |
|------------------------------|--------------------------------|----------------|-----------------|----------------|--|-----------------------|
| CIRCUIT NAME | FACILITY CIRCUIT ORIGINATES IN | FROM | TO | CONDUCTORS | NOTES | DUCTBANKS CABLE IS IN |
| | | | | | | |
| 45CS1103(P) | 45-3 | MCC-20A | 45CS1103 | 4/C #12 TYPE 2 | VIA 45PBX03 | KK, F |
| 45CS1103A(C) | 45-3 | MCC-20A | 45CS1103 | 9/C TYPE 1 | VIA 45PBX03 | KK, F |
| 45CS1103B(C) | 45-3 | HDW-CP01 | 45CS1103 | 19/C TYPE 1 | VIA 45PBX03 | KK, F |
| 45FV6003/13(P) | 45-3 | 20DP02 | 45PBX03 | 4/C #12 TYPE 2 | POWER FOR 45FV6003/13 | KK, F |
| 45FV8103(C) | 45-3 | HDW-CP01 | 45FV8103 | 3/C TYPE 1 | VIA 45PBX03 | KK, F |
| 45G0113(C) | 45-3 | HDW-CP01 | 45G0113 | 9/C TYPE 1 | VIA 45PBX03 | KK, F |
| 45G0113(P) | 45-3 | 20DP02 | 45G0113 | 4/C #12 TYPE 2 | VIA 45PBX03 | KK, F |
| 45HEATA3(P) | 45-3 | 20LP02 | HEAT TRACE REC. | 3/C #10 TYPE 2 | VIA 45PBX03 | KK, F |
| 45HEATB3(P) | 45-3 | 20LP02 | HEAT TRACE REC. | 3/C #10 TYPE 2 | VIA 45PBX03 | KK, F |
| 45HEATC3(P) | 45-3 | 20LP02 | HEAT TRACE REC. | 3/C #8 TYPE 2 | VIA 45PBX03 | KK, F |
| 45INST3(P) | 45-3 | 20IP01 | 45PBX03 | 3/C #12 TYPE 2 | TERMINATE IN 45PBX03 FOR 50FIT3013/23, 45LIT3003 | KK, F |
| 45LIGHTS3(P) | 45-3 | LTG. CONTROLER | 45PBX03 | 3/C#10 TYPE 2 | VIA 45PBX03 | KK, F |
| 45LIT3003(A) | 45-3 | HDW-CP01 | 45LIT3003 | 1 TYPE 3 | VIA 45PBX03A | KK, F |
| 45M0103(C) | 45-3 | MCC-20A | 45M0103 | 7/C TYPE 1 | VIA 45PBX03 | KK, F |
| 45M0103(P) | 45-3 | MCC-20A | 45M0103 | 4/C #12 TYPE 2 | VIA 45PBX03 | KK, F |
| 45RECEPTA3(P) | 45-3 | 20LP02 | 45PBX03 | 3/C#10 TYPE 2 | TERMINATE IN 45PBX03 FOR RECEPTACLES | KK, F |
| 45RECEPTB3(P) | 45-3 | 20DP02 | 480V RECEPTACLE | 4/C #12 TYPE 2 | VIA 45PBX03 | KK, F |
| 45ZS3103(C) | 45-3 | HDW-CP01 | 45ZS3103 | 3/C TYPE 1 | VIA 45PBX03 | KK, F |
| 50CS0103(C) | 45-3 | MCC-20A | 50CS0103 | 9/C TYPE 1 | VIA 45PBX03 | KK, F |
| 50CS0103(P) | 45-3 | MCC-20A | 50CS0103 | 3-#1/0, #6G | VIA 45PBX03 | KK, F |
| 50CS0203(C) | 45-3 | MCC-20B | 50CS0203 | 9/C TYPE 1 | VIA 45PBX03 | KK, F |
| 50CS0203(P) | 45-3 | MCC-20B | 50CS0203 | 3-#1/0, #6G | VIA 45PBX03 | KK, F |
| 50FIT3013(A) | 45-3 | HDW-CP01 | 50FIT3013 | 1 TYPE 3 | VIA 45PBX03A | KK, F |
| 50LIT3023(A) | 45-3 | HDW-CP01 | 50LIT3023 | 1 TYPE 3 | VIA 45PBX03A | KK, F |
| 50LIT3023(C) | 45-3 | 50LIT3023 | HDW-CP01 | 3/C TYPE 1 | VIA 45PBX03 | KK, F |
| 60G0302(A) | 60 | IPS-CP01 | 60G0302 | 1 TYPE 3 | VIA 10PBX01A/60PBX01A | I, H |
| 60G0301(A) | 60 | IPS-CP01 | 60G0301 | 1 TYPE 3 | VIA 10PBX01A/60PBX01A | I, H |
| 60CS0101(C) | 60 | MCC-6C/D | 60CS0101 | 9/C TYPE 1 | VIA 10PBX01/60PBX01 | I, H |
| 60CS0101(P) | 60 | MCC-6C/D | 60M0101 | 3-#8, #6G | VIA 10PBX01/60PBX01 | I, H |
| 60FV6011(C) | 60 | IPS-CP01 | 60FV6011 | 9/C TYPE 1 | VIA 10PBX01/60PBX01 | I, H |
| 60FV6011/12 (P) | 60 | 10DP01 | 60PBX01 | 4/C #12 TYPE 2 | VIA 10PBX01; TERMINATE @ 60PBX01 | I, H |
| 60FV6012(C) | 60 | IPS-CP01 | 60FV6012 | 9/C TYPE 1 | VIA 10PBX01/60PBX01 | I, H |
| 60G0301(C) | 60 | IPS-CP01 | 60G0301 | 9/C TYPE 1 | VIA 10PBX01/60PBX01 | I, H |
| 60G0301/2 (P) | 60 | 10DP01 | 60PBX01 | 4/C #12 TYPE 2 | VIA 10PBX01; TERMINATE @ 60PBX01 | I, H |
| 60G0302(C) | 60 | IPS-CP01 | 60G0302 | 9/C TYPE 1 | VIA 10PBX01/60PBX01 | I, H |
| 60G0401(C) | 60 | IPS-CP01 | 60G0401 | 9/C TYPE 1 | VIA 10PBX01/60PBX01 | I, H |
| 60G0401/2 (P) | 60 | 10DP01 | 60PBX01 | 4/C #12 TYPE 2 | VIA 10PBX01; TERMINATE @ 60PBX01 | I, H |
| 60G0402(C) | 60 | IPS-CP01 | 60G0402 | 9/C TYPE 1 | VIA 10PBX01/60PBX01 | I, H |
| 60HEAT1(P) | 60 | 10LP01 | HEAT TRACE REC. | 4/C #10 TYPE 2 | VIA 10PBX01/60PBX01 | I, H |
| 60HEAT2(P) | 60 | 10LP01 | HEAT TRACE REC. | 4/C #10 TYPE 2 | VIA 10PBX01/60PBX01 | I, H |
| 60HEAT3(P) | 60 | 10LP01 | HEAT TRACE REC. | 4/C #10 TYPE 2 | VIA 10PBX01/60PBX01 | I, H |
| 60HEAT4(P) | 60 | 10LP01 | HEAT TRACE REC. | 4/C #10 TYPE 2 | VIA 10PBX01/60PBX01 | I, H |
| 60HEAT5(P) | 60 | 10LP01 | HEAT TRACE REC. | 4/C #10 TYPE 2 | VIA 10PBX01/60PBX01 | I, H |
| 60HEAT6(P) | 60 | 10LP01 | HEAT TRACE REC. | 4/C #10 TYPE 2 | VIA 10PBX01/60PBX01 | I, H |
| 60HEAT7(P) | 60 | 10LP01 | HEAT TRACE REC. | 4/C #10 TYPE 2 | VIA 10PBX01/60PBX01 | I, H |
| 60HEAT8(P) | 60 | 10LP01 | HEAT TRACE REC. | 4/C #10 TYPE 2 | VIA 10PBX01/60PBX01 | I, H |
| 60HEAT9(P) | 60 | 10LP01 | HEAT TRACE REC. | 4/C #10 TYPE 2 | VIA 10PBX01/60PBX01 | I, H |
| 60INST(P) | 60 | 10IP01 | 60PBX01 | 3/C #12 TYPE 2 | VIA 10PBX01; TERMINATE @ 60PBX01 | I, H |
| 60LIGHTS(P) | 60 | 10LP01 | LIGHTS | 3/C #10 TYPE 2 | VIA 10PBX01; TERMINATE @ 60PBX01 | I, H |
| 60LIT3021(A) | 60 | IPS-CP01 | 60LIT3021 | 1 TYPE 3 | VIA 10PBX01A/60PBX01A | I, H |
| 60LIT3021(C) | 61 | IPS-CP01 | 60LIT3022 | 3/C TYPE 1 | VIA 10PBX01/60PBX01 | I, H |
| 60LIT3022(C) | 62 | IPS-CP01 | 60LIT3022 | 3/C TYPE 1 | VIA 10PBX01/60PBX01 | I, H |
| 60LIT3022(A) | 60 | IPS-CP01 | 60LIT3022 | 1 TYPE 3 | VIA 10PBX01A/60PBX01A | I, H |
| 60LSH3011(C) | 60 | IPS-CP01 | 60LSH3011 | 3/C TYPE 1 | VIA 10PBX01A/60PBX01A | I, H |
| 60RECEPT(P) | 60 | 10LP01 | RECEPTACLES | 3/C #10 TYPE 2 | VIA 10PBX01/60PBX01 | I, H |
| 60AIT3001(A) | 61 | IPS-CP01 | 60AIT3001 | 2 TYPE 3 | VIA 10PBX01A/60PBX01A | I, H |
| 60AIT3002(A) | 61 | IPS-CP01 | 60AIT3001 | 2 TYPE 3 | VIA 10PBX01A/60PBX01A | I, H |
| 60CS1101(C) | 61 | MCC-6C/D | 60CS1101 | 4-#14 | VIA 10PBX01/61PBX01 | I, H |
| 60CS1102(C) | 61 | MCC-6C/D | 60CS1102 | 4-#14 | VIA 10PBX01/61PBX01 | I, H |
| 60P1101(P) | 61 | MCC-6C/D | 60P1101 | 4/C #12 TYPE 2 | VIA 10PBX01/61PBX01 | I, H |
| 60P1102(P) | 61 | MCC-6C/D | 60P1102 | 4/C #12 TYPE 2 | VIA 10PBX01/61PBX01 | I, H |
| 61FV6001(C) | 61 | CCB-CP01 | 61FV6001 | 9/C TYPE 1 | | |
| 61FV6002(C) | 61 | CCB-CP01 | 61FV6002 | 9/C TYPE 1 | | |
| 61CCB-CP01(P) | 61 | 10IP01 | 61PBX01 | 3/C #12 TYPE 2 | | I, H |

SITE ROUTED CIRCUIT SCHEDULE

Table with columns: CIRCUIT NAME, FACILITY CIRCUIT ORIGINATES IN, FROM, TO, CONDUCTORS, NOTES, DUCTBANKS CABLE IS IN. Contains circuit details for various locations like 61INST(P), 61LCP0100(A), etc.

SITE ROUTED CIRCUIT SCHEDULE

Table with columns: CIRCUIT NAME, FACILITY CIRCUIT ORIGINATES IN, FROM, TO, CONDUCTORS, NOTES, DUCTBANKS CABLE IS IN. Contains circuit details for various locations like 72AIT3001(A), 72AIT3002(A), etc.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KANDI L. MAESTRI, STATE OF OREGON, P.E. NO. 53785PE

Table with columns: DSGN B RODGERS, KL MAESTRI, DR JE HANNER, CHK G DEBOIS, JB MAURAS, APVD CW MASSIE, NO., DATE 01/20/10, REVISION.

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

GRW KLM BY APVD

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENT PROJECT WWTP-03-01 LINN COUNTY, OREGON

ELECTRICAL SITE ROUTED CIRCUIT SCHEDULE

Table with columns: SHEET 466, DWG 91-E-553, DATE MAY 19 2006, PROJ 326918

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| SITE ROUTED CONDUIT SCHEDULE | | | | | | |
|------------------------------|--------------|---------|-------------------|-------------------|---|-------------------------|
| DUCTBANK NAME | CONDUIT NAME | FROM | TO | SERVICE/TYPE | CIRCUIT(S) | REMARKS |
| A | A01 | MH-P-9 | MH-P-1 | 1 1/2" PVC | 30M1512(P) | |
| | A02 | MH-P-9 | MH-P-1 | 1 1/2" PVC | 30M1612(P) | |
| | | | | | 30TJB2B1(P), 30TJB2B1(C), 30TJB2B3(P), 30CS 1512(C), 30CS 1612(C) | |
| | A03 | MH-P-9 | MH-P-1 | 3" PVC | 30M1522(P) | |
| | A04 | MH-P-9 | MH-P-1 | 1 1/2" PVC | 30M1622(P) | |
| | A05 | MH-P-9 | MH-P-1 | 1 1/2" PVC | 30M1622(P) | |
| | | | | | 30TJB2C1(P), 30TJB2C1(C), 30TJB2C3(P), 30CS 1522(C), 30CS 1622(C) | |
| | A06 | MH-P-9 | MH-P-1 | 3" PVC | 30M1532(P) | |
| | A07 | MH-P-9 | MH-P-1 | 1 1/2" PVC | 30M1632(P) | |
| | A08 | MH-P-9 | MH-P-1 | 1 1/2" PVC | 30M1632(P) | |
| | | | | | 30TJB2D1(P), 30TJB2D1(C), 30TJB2D3(P), 30CS 1532(C), 30CS 1632(C) | |
| | A09 | MH-P-9 | MH-P-1 | 3" PVC | 30M1531(P) | |
| | A10 | MH-P-9 | MH-P-1 | 1 1/2" PVC | 30M1631(P) | |
| | A11 | MH-P-9 | MH-P-1 | 1 1/2" PVC | 30M1631(P) | |
| | | | | | 30TJB1D1(P), 30TJB1D1(C), 30TJB1D3(P), 30CS 1531(C), 30CS 1631(C) | |
| | A12 | MH-P-9 | MH-P-1 | 3" PVC | 30M1521(P) | |
| | A13 | MH-P-9 | MH-P-1 | 1 1/2" PVC | 30M1621(P) | |
| | A14 | MH-P-9 | MH-P-1 | 1 1/2" PVC | 30M1621(P) | |
| | | | | | 30TJB1C1(P), 30TJB1C1(C), 30TJB1C3(P), 30CS 1521(C), 30CS 1621(C) | |
| | A15 | MH-P-9 | MH-P-1 | 3" PVC | 30M1511(P) | |
| | A16 | MH-P-9 | MH-P-1 | 1 1/2" PVC | 30M1611(P) | |
| | A17 | MH-P-9 | MH-P-1 | 1 1/2" PVC | 30M1611(P) | |
| | | | | | 30TJB1B1(P), 30TJB1B1(C), 30TJB1B3(P), 30CS 1511(C), 30CS 1611(C) | |
| | A18 | MH-P-9 | MH-P-1 | 3" PVC | 30M1511(P) | |
| | | | | | 30TJB4512(P), 30TJB4511(P), 30HEAT01(P) | |
| | A19 | MH-P-9 | MH-P-1 | 2" PVC | 30M1511(P) | |
| | | | | | 30AIT4512(A), 30AIT4412(A), 30AIT4411(A), 30AIT4511(A) | |
| | A20 | HH-LV-9 | HH-LV-1 | 2" PVC COATED RGS | 30M1511(P) | |
| | | | | | 30TJB2B4(A), 30TJB2C4(A), 30TJB2D4(A), 30TJB1D4(A), 30TJB1C4(A), 30TJB1B4(A) | |
| | A21 | HH-LV-9 | HH-LV-1 | 3" PVC COATED RGS | 30M1511(P) | |
| | A22 | MH-P-9 | MH-P-1 | 1" PVC | 30LCP0801(P) | |
| | A23 | MH-P-9 | MH-P-1 | 2" PVC | PULLWIRE | FOR FUTURE DISC AERATOR |
| | A24 | MH-P-9 | MH-P-1 | 2" PVC | PULLWIRE | FOR FUTURE DISC AERATOR |
| | A25 | MH-P-9 | MH-P-1 | 2" PVC | PULLWIRE | FOR FUTURE DISC AERATOR |
| | A26 | MH-P-9 | MH-P-1 | 2" PVC | PULLWIRE | FOR FUTURE DISC AERATOR |
| A27 | HH-LV-9 | HH-LV-1 | 2" PVC COATED RGS | PULLWIRE | FOR FUTURE INSTRUMENTS | |
| A28 | MH-P-9 | MH-P-1 | 3" PVC | PULLWIRE | FOR FUTURE VALVES | |
| A29 | MH-P-9 | MH-P-1 | 3" PVC | PULLWIRE | FOR FUTURE VALVES | |
| A30 | MH-P-9 | MH-P-1 | 2" PVC | PULLWIRE | SPARE | |
| A31 | MH-P-9 | MH-P-1 | 2" PVC | PULLWIRE | SPARE | |
| A32 | MH-P-9 | MH-P-1 | 2" PVC | PULLWIRE | SPARE | |
| A33 | MH-P-9 | MH-P-1 | 2" PVC | PULLWIRE | SPARE | |
| A34 | HH-LV-9 | HH-LV-1 | 2" PVC COATED RGS | PULLWIRE | SPARE | |
| A35 | HH-LV-9 | HH-LV-1 | 2" PVC COATED RGS | PULLWIRE | SPARE | |

Site Routed Circuit Schedule Notes:

1. This schedule only includes underground circuits. For above ground circuits, refer to the riser diagrams.
2. All circuits that are routed around the site in ductbanks are listed and defined within this schedule.
2. The circuits are in order by the "Facility the Circuit Originates in" and then in numerical order for all circuits originating from that facility.

| SITE ROUTED CONDUIT SCHEDULE | | | | | | | |
|------------------------------|--------------|------------------|----------|-------------------|---|--|--|
| DUCTBANK NAME | CONDUIT NAME | FROM | TO | SERVICE/TYPE | CIRCUIT(S) | REMARKS | |
| B | B01 | 30DP01 | MH-P-1 | 2" PVC | 30DP01(P) | | |
| | B02 | 30IP01 | MH-P-1 | 2" PVC | 30IP01(P) | | |
| | B03 | SPARE IN SHELTER | MH-P-1 | 2" PVC | PULLWIRE | SPARE | |
| | B04 | 38CS0201 | MH-P-1 | 2" PVC | 38P0201(P), 38CS0201(C) | PVC COATED RGS WHERE EXPOSED ABOVE GRADE. | |
| | B05 | 30CS2011 | MH-P-1 | 2" PVC | 30P2011(P), 30CS2011(C) | PVC COATED RGS WHERE EXPOSED ABOVE GRADE. | |
| | B06 | SPARE IN SHELTER | MH-P-1 | 2" PVC | PULLWIRE | SPARE | |
| | B07 | VLR-CP01 | HH-LV-1 | 2" PVC | VLR/BLR FIBER(C) | | |
| | B08 | SPARE IN SHELTER | HH-LV-1 | 2" PVC COATED RGS | PULLWIRE | SPARE | |
| C | C01 | MH-P-1 | MCC-32A | 1 1/2" PVC | 30M1512(P) | | |
| | C02 | MH-P-1 | MCC-32B | 1 1/2" PVC | 30M1612(P) | | |
| | C03 | MH-P-1 | MCC-32A | 1 1/2" PVC | 30M1522(P) | | |
| | C04 | MH-P-1 | MCC-32B | 1 1/2" PVC | 30M1622(P) | | |
| | C05 | MH-P-1 | MCC-32A | 1 1/2" PVC | 30M1532(P) | | |
| | C06 | MH-P-1 | MCC-32B | 1 1/2" PVC | 30M1632(P) | | |
| | C07 | MH-P-1 | MCC-32A | 1 1/2" PVC | 30M1531(P) | | |
| | C08 | MH-P-1 | MCC-32B | 1 1/2" PVC | 30M1631(P) | | |
| | C09 | MH-P-1 | MCC-32A | 1 1/2" PVC | 30M1521(P) | | |
| | C10 | MH-P-1 | MCC-32B | 1 1/2" PVC | 30M1621(P) | | |
| | C11 | MH-P-1 | MCC-32A | 1 1/2" PVC | 30M1511(P) | | |
| | C12 | MH-P-1 | MCC-32B | 1 1/2" PVC | 30M1611(P) | | |
| | | C13 | MH-P-1 | MCC-32A | 2" PVC | 30CS 1512(C), 30CS 1522(C), 30CS 1532(C) | |
| | | C14 | MH-P-1 | MCC-32A | 2" PVC | 30CS 1511(C), 30CS 1521(C), 30CS 1531(C) | |
| | | C15 | MH-P-1 | MCC-32B | 2" PVC | 30CS 1612(C), 30CS 1622(C), 30CS 1632(C) | |
| | | C16 | MH-P-1 | MCC-32B | 2" PVC | 30CS 1611(C), 30CS 1621(C), 30CS 1631(C) | |
| | | C17 | MH-P-1 | 32IP01 | 2" PVC | 30TJB4512(P), 30TJB4511(P) | |
| | | C18 | MH-P-1 | 32DP01 | 2" PVC | 30DP01(P) | |
| | | C19 | MH-P-1 | 32DPI01 | 2" PVC | 30IP01(P) | |
| | | C20 | MH-P-1 | 32DP01 | 1" PVC | 30LCP0801(P) | |
| | | C21 | MH-P-1 | 32DPI01 | 2" PVC | 20IP01(P) | |
| | | | | | 30TJB2B1(C), 30TJB2C1(C), 30TJB2D1(C), 30TJB1B1(C), 30TJB1C1(C), 30TJB1D1(C) | | |
| | C22 | MH-P-1 | BLR-CP01 | 4" PVC | 30TJB2B1(P), 30TJB2C1(P), 30TJB2D1(P) | | |
| | C23 | MH-P-1 | 32DP02 | 2" PVC | 30TJB1B1(P), 30TJB1C1(P), 30TJB1D1(P) | | |
| | C24 | MH-P-1 | 32DP02 | 2" PVC | 30TJB2B3(P), 30TJB2C3(P), 30TJB2D3(P) | | |
| | C25 | MH-P-1 | 32IP01 | 2" PVC | 30TJB1B3(P), 30TJB1C3(P), 30TJB1D3(P) | | |
| | C26 | MH-P-1 | 32IP01 | 2" PVC | 38P0201(P), 38CS0201(C) | | |
| | C27 | MH-P-1 | MCC-32B | 2" PVC | 30CS2011(P), 30CS2011(C) | | |
| | C28 | MH-P-1 | MCC-32B | 2" PVC | 30CS2011(P), 30CS2011(C) | | |
| | C29 | MH-P-1 | 32LP01 | 1 1/2" PVC | 30HEAT01(P) | | |
| | | | | | VLR/BLR FIBER(C), HDW/BLR FIBER(C), CTL/BLR FIBER(C) | | |
| | C30 | HH-LV-1 | BLR-CP01 | 4" PVC | | | |
| | | | | | 30AIT4512(A), 30AIT4412(A), 30AIT4411(A), 30AIT4511(A) | | |
| | C31 | HH-LV-1 | BLR-CP01 | 2" PVC COATED RGS | | | |
| | | | | | 30TJB2B4(A), 30TJB2C4(A), 30TJB2D4(A), 30TJB1D4(A), 30TJB1C4(A), 30TJB1B4(A) | | |
| | C32 | HH-LV-1 | BLR-CP01 | 3" PVC COATED RGS | | | |

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|------|------------|-----|------|
| DSGN | B RODGERS | | |
| DR | KL MAESTRI | | |
| CHK | JE HAMNER | | |
| | G DEBOIS | | |
| | JB MAURIS | | |
| APVD | CW MASSIE | NO. | DATE |

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| NO. | DATE |
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(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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| GRW | KLM |
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VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

ELECTRICAL
SITE ROUTED CONDUIT SCHEDULE

| | |
|-------|-------------|
| SHEET | 467 |
| DWG | 91-E-554 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.

| SITE ROUTED CONDUIT SCHEDULE | | | | | | |
|------------------------------|--------------|--------------|-------------------------|--|------------|-------------------------|
| DUCTBANK NAME | CONDUIT NAME | FROM | TO | SERVICE/TYPE | CIRCUIT(S) | REMARKS |
| C CONTINUED | | | | | | |
| C33 | MH-P-1 | SWGR-32A | 3" PVC | MCC-20A(P1) | | |
| C34 | MH-P-1 | SWGR-32A | 3" PVC | MCC-20A(P2) | | |
| C35 | MH-P-1 | SWGR-32A | 3" PVC | MCC-20A(P3) | | |
| C36 | MH-P-1 | SWGR-32A | 3" PVC | MCC-20A(P4) | | |
| C37 | MH-P-1 | SWGR-32B | 3" PVC | MCC-20B(P1) | | |
| C38 | MH-P-1 | SWGR-32B | 3" PVC | MCC-20B(P2) | | |
| C39 | MH-P-1 | SWGR-32B | 3" PVC | MCC-20B(P3) | | |
| C40 | MH-P-1 | SWGR-32B | 3" PVC | MCC-20B(P4) | | |
| C41 | MH-P-1 | SWGR-32B | 3" PVC | MCC-95(P1) | | |
| C42 | MH-P-1 | SWGR-32B | 3" PVC | MCC-95(P2) | | |
| C43A | HH-LV-1 | 32FACP01 | 2" PVC | 95/32 FACP(C) | | |
| C43B | HH-LV-1 | 32FACP01 | 2" PVC | 32/20FACP(C) | | |
| C44 | MH-P-1 | 32DPI01 | 2" PVC | PULLWIRE | | |
| C45 | MH-P-1 | MCC-32A | 2" PVC | PULLWIRE | | FOR FUTURE DISC AERATOR |
| C46 | MH-P-1 | MCC-32A | 2" PVC | PULLWIRE | | FOR FUTURE DISC AERATOR |
| C47 | MH-P-1 | MCC-32B | 2" PVC | PULLWIRE | | FOR FUTURE DISC AERATOR |
| C48 | MH-P-1 | MCC-32B | 2" PVC | PULLWIRE | | FOR FUTURE DISC AERATOR |
| C49 | MH-P-1 | STUB IN ROOM | 2" PVC | PULLWIRE | | SPARE |
| C50 | MH-P-1 | STUB IN ROOM | 2" PVC | PULLWIRE | | SPARE |
| C51 | MH-P-1 | STUB IN ROOM | 2" PVC | PULLWIRE | | SPARE |
| C52 | MH-P-1 | BLR-CP01 | 2" PVC | PULLWIRE | | FOR FUTURE BASINS |
| C53 | MH-P-1 | BLR-CP01 | 2" PVC | PULLWIRE | | FOR FUTURE BASINS |
| C54 | MH-P-1 | 32IP01 | 2" PVC | PULLWIRE | | FOR FUTURE BASINS |
| C55 | MH-P-1 | 32DP01 | 2" PVC | PULLWIRE | | FOR FUTURE BASINS |
| C56 | MH-P-1 | 32DP01 | 2" PVC | PULLWIRE | | FOR FUTURE BASINS |
| C57 | HH-LV-1 | STUB IN ROOM | 2" PVC COATED RGS | PULLWIRE | | SPARE |
| C58 | HH-LV-1 | STUB IN ROOM | 2" PVC COATED RGS | PULLWIRE | | SPARE |
| C59 | HH-LV-1 | BLR-CP01 | 2" PVC COATED RGS | PULLWIRE | | FOR FUTURE BASINS |
| C60 | HH-LV-1 | BLR-CP01 | 2" PVC COATED RGS | PULLWIRE | | SPARE |
| C61 | MH-P-1 | 32DPI01 | 2" PVC | PULLWIRE | | LB-UPS(P) |
| D | | | | | | |
| D01 | 45PBX01A | HH-LV-7 | 1 1/2" PVC COATED RIGID | 45LIT3001(A), 50FIT3011(A), 50LIT3021(A) | | |
| D02 | 45PBX01 | MH-P-7 | 2 1/2" PVC | 50CS0101(P), 50CS0201(P) | | |
| D03 | 45PBX01 | MH-P-7 | 2" PVC | 45CS1101B(C), 45INST1(P), 45FV6101(C), 45ZS3101(C), 50LIT3021(C) | | |
| D04 | 45PBX01 | MH-P-7 | 2" PVC | 45CS0101(C), 45M0101(C), 45M0101(P), 45CS1101(P) | | |
| D05 | 45PBX01 | MH-P-7 | 2" PVC | 45CS1101A(C), 45G0111(C), 45FV6001/11(P), 45G0111(P) | | |
| D06 | 45PBX01 | MH-P-7 | 2 1/2" PVC | 50CS0101(C), 50CS0201(C) | | |
| D07 | 45PBX01 | MH-P-7 | 2" PVC | PULLWIRE | | SPARE |
| D08 | 45PBX01 | MH-P-7 | 2" PVC | 45RECEPTB1(P) | | |
| D09 | 45PBX01 | MH-P-7 | 2" PVC | 45LIGHTS1(P), 45RECEPTA1(P) | | |
| D10 | 45PBX01 | MH-P-7 | 2" PVC | 45HEAT A1(P), 45HEAT B1(P), 45HEAT C1(P) | | |

| SITE ROUTED CONDUIT SCHEDULE | | | | | | |
|------------------------------|--------------|----------|-------------------------|--|------------|-----------------------|
| DUCTBANK NAME | CONDUIT NAME | FROM | TO | SERVICE/TYPE | CIRCUIT(S) | REMARKS |
| E | | | | | | |
| E01 | HH-LV-7 | HH-LV-2 | 1 1/2" PVC COATED RIGID | 45LIT3001(A), 50FIT3011(A), 50LIT3021(A) | | |
| E02 | MH-P-7 | MH-P-2 | 2 1/2" PVC | 50CS0101(P), 50CS0201(P) | | |
| E03 | MH-P-7 | MH-P-2 | 2" PVC | 45CS1101B(C), 45INST1(P), 45FV6101(C), 45ZS3101(C), 50LIT3021(C) | | |
| E04 | MH-P-7 | MH-P-2 | 2" PVC | 45CS0101(C), 45M0101(C), 45M0101(P), 45CS1101(P) | | |
| E05 | MH-P-7 | MH-P-2 | 2" PVC | 45CS1101A(C), 45G0111(C), 45FV6001/11(P), 45G0111(P) | | |
| E06 | MH-P-7 | MH-P-2 | 2 1/2" PVC | 50CS0101(C), 50CS0201(C) | | |
| E07 | MH-P-7 | MH-P-2 | 2" PVC | PULLWIRE | | SPARE |
| E08 | HH-LV-7 | HH-LV-2 | 1 1/2" PVC COATED RIGID | PULLWIRE | | SPARE FOR CLARIFIER 4 |
| E09 | MH-P-7 | MH-P-2 | 2" PVC | PULLWIRE | | SPARE FOR CLARIFIER 4 |
| E10 | MH-P-7 | MH-P-2 | 2" PVC | PULLWIRE | | SPARE FOR CLARIFIER 4 |
| E11 | MH-P-7 | MH-P-2 | 2" PVC | PULLWIRE | | SPARE FOR CLARIFIER 4 |
| E12 | MH-P-7 | MH-P-2 | 2" PVC | PULLWIRE | | SPARE FOR CLARIFIER 4 |
| E13 | MH-P-7 | MH-P-2 | 2" PVC | PULLWIRE | | SPARE FOR CLARIFIER 4 |
| E14 | MH-P-7 | MH-P-2 | 2" PVC | PULLWIRE | | SPARE FOR CLARIFIER 4 |
| E15 | MH-P-7 | MH-P-2 | 2" PVC | PULLWIRE | | SPARE FOR CLARIFIER 4 |
| E16 | MH-P-7 | MH-P-2 | 2" PVC | PULLWIRE | | |
| E17 | 38PBX01 | MH-P-2 | 2" PVC | 38G0101(C), 38G0101/2(P), 38G0102(C) | | |
| E18 | 38PBX01 | MH-P-2 | 2" PVC | 38G0103(C), 38G0103/402(P), 38G0402(C), 38LSH3301(C) | | |
| E19 | MH-P-7 | MH-P-2 | 2" PVC | PULLWIRE | | SPARE |
| E20 | MH-P-7 | MH-P-2 | 2" PVC | PULLWIRE | | SPARE |
| E21 | HH-LV-7 | HH-LV-2 | 2" PVC COATED RIGID | PULLWIRE | | SPARE |
| E22 | HH-LV-7 | HH-LV-2 | 2" PVC COATED RIGID | PULLWIRE | | SPARE |
| E23 | MH-P-7 | MH-P-2 | 2" PVC | 45LIGHTS1(P), 45RECEPTA1(P) | | |
| E24 | MH-P-7 | MH-P-2 | 2" PVC | 45HEAT A1(P), 45HEAT B1(P), 45HEAT C1(P) | | |
| F | | | | | | |
| F01 | MH-P-2 | 20IP01 | 2" PVC | 20IP01(P) | | |
| F02 | HH-LV-2 | HDW-CP01 | 2" PVC | IPSFPP/HDW FIBER(C) | | |
| F03 | HH-LV-2 | HDW-CP01 | 2" PVC | HDW/BLR FIBER(C) | | |
| F04 | MH-P-2 | MCC-20A | 3" PVC | MCC-20A(P1) | | |
| F05 | MH-P-2 | MCC-20A | 3" PVC | MCC-20A(P2) | | |
| F06 | MH-P-2 | MCC-20A | 3" PVC | MCC-20A(P3) | | |
| F07 | MH-P-2 | MCC-20A | 3" PVC | MCC-20A(P4) | | |
| F08 | MH-P-2 | MCC-20B | 3" PVC | MCC-20B(P1) | | |
| F09 | MH-P-2 | MCC-20B | 3" PVC | MCC-20B(P2) | | |
| F10 | MH-P-2 | MCC-20B | 3" PVC | MCC-20B(P3) | | |
| F11 | MH-P-2 | MCC-20B | 3" PVC | MCC-20B(P4) | | |
| F12 | HH-LV-2 | HDW-CP01 | 2" PVC COATED RIGID | 45LIT3001(A), 50FIT3011(A), 50LIT3021(A), 45LIT3002(A), 50FIT3012(A), 50LIT3022(A), 45LIT3003(A), 50FIT3013(A), 50LIT3023(A) | | |
| F13 | MH-P-2 | MCC-20A | 2 1/2" PVC | 50CS0101(P), 50CS0102(P), 50CS0201(P), 50CS0202(P) | | |
| F14 | MH-P-2 | MCC-20B | 2 1/2" PVC | 50CS0201(P), 50CS0202(P) | | |
| F15 | MH-P-2 | MCC-20A | 2" PVC | 50CS0103(P) | | |
| F16 | MH-P-2 | MCC-20B | 2" PVC | 50CS0203(P) | | |

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|------|-------------------------------------|----------|------|----------|----|------|--|
| DRG | DSGN B RODGERS KL MAESTRI | | | | | | |
| CHK | JE HAMNER G DEBOIS JB MAURAIS | | | | | | |
| APVD | CW MASSIE | 01/20/10 | | | | | |
| | | NO. | DATE | REVISION | BY | APVD | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

ELECTRICAL
SITE ROUTED CONDUIT SCHEDULE

| | |
|-------|-------------|
| SHEET | 468 |
| DWG | 91-E-555 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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| SITE ROUTED CONDUIT SCHEDULE | | | | | | |
|------------------------------|--------------|---------|------------|-----------------------|---|-----------------------|
| DUCTBANK NAME | CONDUIT NAME | FROM | TO | SERVICE/TYPE | CIRCUIT(S) | REMARKS |
| | F17A | MH-P-2 | HDW-CP01 | 3" PVC | 45CS1101B(C), 45G0111(C), 45CS1102B(C), 45G0112(C), 45CS1103B(C), 45G0113(C), 45FV6101(C), 45ZS3101(C) | |
| | F17B | MH-P-2 | HDW-CP01 | 3" PVC | 45FV6102(C), 45ZS3102(C), 45FV6103(C), 45ZS3103(C), 50LIT3021(C), 50LIT3022(C), 50LIT3023(C) | |
| | F18 | MH-P-2 | 20DP02 | 1 1/2" PVC | 45RECEPTB1(P), 45RECEPTB2(P) | |
| | F19 | MH-P-2 | 20DP02 | 1 1/2" PVC | 45G0111(P), 45G0112(P) | |
| | F20 | MH-P-2 | 20DP02 | 2" PVC | 45FV6002/12(P), 45G0113(P), 45FV6001/11(P) | |
| | F21 | MH-P-2 | 20DP02 | 1 1/2" PVC | 45FV6003/13(P), 45RECEPTB3(P) | |
| | F22 | MH-P-2 | MCC-20A | 3" PVC | 45CS0101(C), 45CS1101(P), 45CS1101A(C), 45M0101(C), 45M0101(P), 50CS0101(C), 50CS0102(C) | |
| | F23 | MH-P-2 | MCC-20B | 3" PVC | 45CS0102(C), 45CS1102(P), 45CS1102A(C), 45M0102(C), 45M0102(P) | |
| | F24 | MH-P-2 | MCC-20A | 3" PVC | 45CS0103(C), 45CS1103(P), 45CS1103A(C), 45M0103(C), 45M0103(P), 50CS0103(C) | |
| | F25 | MH-P-2 | 20LP02 | 1 1/2" PVC | 45RECEPTA3(P), 45RECEPTA2(P), 45RECEPTA1(P) | |
| | F26 | MH-P-2 | 20IP01 | 2" PVC | 45INST1(P), 45INST2(P), 45INST3(P) | |
| | F27 | MH-P-2 | 20LP02 | 2" PVC | 45HEATA3(P), 45HEATB3(P), 45HEATC3(P) | |
| | F28 | HH-LV-2 | HDW-CP01 | 1 1/2" PVC COATED RGS | PULLWIRE | SPARE FOR CLARIFIER 4 |
| | F29 | MH-P-2 | MCC 20A | 2" PVC | PULLWIRE | SPARE FOR CLARIFIER 4 |
| | F30 | MH-P-2 | MCC 20A | 2" PVC | PULLWIRE | SPARE FOR CLARIFIER 4 |
| | F31 | MH-P-2 | MCC 20B | 2" PVC | PULLWIRE | SPARE FOR CLARIFIER 4 |
| | F32 | MH-P-2 | MCC 20B | 2" PVC | PULLWIRE | SPARE FOR CLARIFIER 4 |
| | F33 | MH-P-2 | MCC 20B | 2" PVC | PULLWIRE | SPARE FOR CLARIFIER 4 |
| | F34 | MH-P-2 | MCC 20B | 2" PVC | PULLWIRE | SPARE FOR CLARIFIER 4 |
| | F35 | MH-P-2 | HDW-CP01 | 2 1/2" PVC | 38G0101(C), 38G0102(C), 38G0103(C), 38G0402(C), 38LSH3301(C) | |
| | F36 | MH-P-2 | 20DP02 | 1 1/2" PVC | 38G0101/2(P), 38G0103/402(P), 32/20FACP(C), 20/10 FACP(C) | |
| | F37 | HH-LV-2 | 20FACP01 | 3" | | |
| | F38 | MH-P-2 | 20DP01 | 2" PVC | PULLWIRE | SPARE |
| | F39 | MH-P-2 | 20LP01 | 2" PVC | PULLWIRE | SPARE |
| | F40 | MH-P-2 | HDW-CP01 | 2" PVC | PULLWIRE | SPARE |
| | F41 | HH-LV-2 | HDW-CP01 | 2" PVC COATED RIGID | PULLWIRE | SPARE |
| | F42 | HH-LV-2 | HDW-CP01 | 2" PVC COATED RIGID | PULLWIRE | SPARE |
| | F43 | MH-P-2 | 20DP01 | 2" PVC | SITE LGTS 1(P), SITE LGTS 2(P) | |
| | F44 | MH-P-2 | LTG. CONT. | 2" PVC | 45LIGHTS1(P), 45LIGHTS2(P), 45LIGHTS3(P) | |
| | F45 | MH-P-2 | 20LP02 | 2" PVC | 45HEATA1(P), 45HEATB1(P), 45HEATC1(P) | |
| | F46 | MH-P-2 | 20LP02 | 2" PVC | 45HEATA2(P), 45HEATB2(P), 45HEATC2(P) | |
| | F47 | MH-P-2 | MCC 20B | 2" PVC | 50CS0201(C), 50CS0202(C), 50CS0203(C) | |

| SITE ROUTED CONDUIT SCHEDULE | | | | | | |
|------------------------------|--------------|----------|---------|-------------------|--|---------|
| DUCTBANK NAME | CONDUIT NAME | FROM | TO | SERVICE/TYPE | CIRCUIT(S) | REMARKS |
| G | G01 | MH-P-2 | MH-P-1 | 2" PVC | 20IP01(P) | |
| | G02 | HH-LV-2 | HH-LV-1 | 2" PVC | HDW/BLR FIBER(C) | |
| | G03 | MH-P-2 | MH-P-1 | 3" PVC | MCC-20A(P1) | |
| | G04 | MH-P-2 | MH-P-1 | 3" PVC | MCC-20A(P2) | |
| | G05 | MH-P-2 | MH-P-1 | 3" PVC | MCC-20A(P3) | |
| | G06 | MH-P-2 | MH-P-1 | 3" PVC | MCC-20A(P4) | |
| | G07 | MH-P-2 | MH-P-1 | 3" PVC | MCC-20B(P1) | |
| | G08 | MH-P-2 | MH-P-1 | 3" PVC | MCC-20B(P2) | |
| | G09 | MH-P-2 | MH-P-1 | 3" PVC | MCC-20B(P3) | |
| | G10 | MH-P-2 | MH-P-1 | 3" PVC | MCC-20B(P4) | |
| | G11 | HH-LV-2 | HH-LV-1 | 2" PVC | 32/20FACP(C) | |
| | G12 | MH-P-2 | MH-P-1 | 3" PVC | PULLWIRE | SPARE |
| | G13 | MH-P-2 | MH-P-1 | 3" PVC | PULLWIRE | SPARE |
| | G14 | MH-P-2 | MH-P-1 | 3" PVC | PULLWIRE | SPARE |
| | G15 | MH-P-2 | MH-P-1 | 3" PVC | PULLWIRE | SPARE |
| | G16 | HH-LV-2 | HH-LV-1 | 2" PVC COATED RGS | PULLWIRE | SPARE |
| | G17 | HH-LV-2 | HH-LV-1 | 2" PVC COATED RGS | PULLWIRE | SPARE |
| | G18 | HH-LV-2 | HH-LV-1 | 2" PVC COATED RGS | PULLWIRE | SPARE |
| | G19 | HH-LV-2 | HH-LV-1 | 2" PVC COATED RGS | PULLWIRE | SPARE |
| | G20 | MH-P-2 | MH-P-1 | 2" PVC | PULLWIRE | SPARE |
| H | H01 | 10PBX01A | HH-LV-3 | 2" PVC COATED RGS | 60AIT3001(A), 60AIT3002(A) | |
| | H02 | 10PBX01 | MH-P-3 | 3"PVC | 60CS1101(C), 60CS1102(C), 60P1101(P), 60P1102(P) | |
| | H03 | 10PBX01 | MH-P-3 | 2"PVC | 61INST(P) | |
| | H04 | 10PBX01 | MH-P-3 | 3"PVC | 68LCP0201(P) | |
| | H05 | 10PBX01 | MH-P-3 | 3"PVC | 68CS0101(C), 68P0101(C), 68CS0102(C), 68P0102(C) | |
| | H06 | 10PBX01 | MH-P-3 | 2"PVC | 68CS0103(C), 68P0103(C), 61TX01(P) | |
| | H07 | 10PBX01 | MH-P-3 | 2" PVC | 68P0101(P) | |
| | H08 | 10PBX01 | MH-P-3 | 2" PVC | 68P0102(P) | |
| | H09 | 10PBX01 | MH-P-3 | 2" PVC | 68P0103(P) | |
| | H10 | 10PBX01 | MH-P-3 | 3"PVC | PULLWIRE | SPARE |
| | H11 | 10PBX01 | MH-P-3 | 3"PVC | PULLWIRE | SPARE |
| | H12 | 10PBX01 | MH-P-3 | 3"PVC | PULLWIRE | SPARE |
| | H13 | 10PBX01A | HH-LV-3 | 2" PVC COATED RGS | 60LIT3021(A), 60LIT3022(A), 60G0301(A), 60G0302(A) | |
| | H14 | 10PBX01 | MH-P-3 | 2"PVC | 60CS0101(P), 60CS0101(C), 60RECEPT(P), 60INST(P), 60LIGHTS(P) | |
| | H15 | 10PBX01 | MH-P-3 | 3"PVC | 60G0301(C), 60G0302(C), 60G0301/2(P), 60LSH3011(C), 60FV6011(C), 60FV6012(C), 60FV6011/12(P), 60LIT3021(C), 60LIT3022(C) | |
| | H16 | 10PBX01 | MH-P-3 | 2"PVC | 60G0401(C), 60G0402(C), 60G0401/2 (P) | |
| | H17 | 10PBX01 | MH-P-3 | 2"PVC | 60HEAT1(P), 60HEAT2(P), 60HEAT3(P) | |

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| | |
|------|-----------|
| DR | JE HAMNER |
| CHK | G DEBOIS |
| APVD | CW MASSIE |

| | |
|------|----------|
| NO. | 01/23/10 |
| DATE | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

| | |
|-----|------|
| GRW | KLM |
| BY | APVD |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

ELECTRICAL
SITE ROUTED CONDUIT SCHEDULE

| | |
|-------|-------------|
| SHEET | 469 |
| DWG | 91-E-556 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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| SITE ROUTED CONDUIT SCHEDULE | | | | | | |
|------------------------------|--------------|----------|---------|-------------------|--|---------|
| DUCTBANK NAME | CONDUIT NAME | FROM | TO | SERVICE/TYPE | CIRCUIT(S) | REMARKS |
| | H18 | 10PBX01 | MH-P-3 | 2"PVC | 60HEAT4(P), 60HEAT5(P), 60HEAT6(P) | |
| | H19 | 10PBX01 | MH-P-3 | 2"PVC | 60HEAT7(P), 60HEAT8(P), 60HEAT9(P) | |
| | H20 | 10PBX01A | HH-LV-3 | 3" PVC COATED RGS | PULLWIRE | SPARE |
| | H21 | 10PBX01A | HH-LV-3 | 2" PVC COATED RGS | 07AIT3001(A), 07AIT3011(A), 07AIT3021(A) | |
| | H22 | 10PBX01 | MH-P-3 | 2" PVC | 07CS0101(C), 07CS0102(C), 07G0111(C), 07G0111(P), 07INST(P) | |
| | H23 | 10PBX01 | MH-P-3 | 1 1/2" PVC | 07TX01(P), 07S0121(C) | |
| | H24 | 10PBX01 | MH-P-3 | 1 1/2" PVC | 07P0101(P), 07P0102(P) | |
| | H25 | 10PBX01A | HH-LV-3 | 2" PVC | 10/60 FACP(C) | |
| I | I01 | 61PBX01A | HH-LV-3 | 2"PVC COATED RGS | 60AIT3001(A), 60AIT3002(A) | |
| | I02 | 61PBX01 | MH-P-3 | 3"PVC | 60CS1101(C), 60CS1102(C), 60P1101(P), 60P1102(P) | |
| | I03 | 61PBX01 | MH-P-3 | 2"PVC | 61INST(P) | |
| | I04 | 61PBX01 | MH-P-3 | 3"PVC | 68LCP0201(P) | |
| | I05 | 61PBX01 | MH-P-3 | 2"PVC | 68CS0101(C), 68P0101(C), 68CS0102(C), 68P0102(C) | |
| | I06 | 61PBX01 | MH-P-3 | 2"PVC | 68CS0103(C), 68P0103(C), 61TX01(P) | |
| | I07 | 61PBX01 | MH-P-3 | 1 1/2" PVC | 68P0101(P) | |
| | I08 | 61PBX01 | MH-P-3 | 1 1/2" PVC | 68P0102(P) | |
| | I09 | 61PBX01 | MH-P-3 | 1 1/2" PVC | 68P0103(P) | |
| | I10 | 60PBX01 | MH-P-3 | 3"PVC | PULLWIRE | SPARE |
| | I11 | 60PBX01 | MH-P-3 | 2"PVC | PULLWIRE | SPARE |
| | I12 | 60PBX01A | HH-LV-3 | 2" PVC COATED RGS | 60LIT3021(A), 60LIT3022(A), 60G0301(A), 60G0302(A) | |
| | I13 | 60PBX01 | MH-P-3 | 2"PVC | 60CS0101(P), 60CS0101(C), 60RECEPT(P), 60INST(P), 60LIGHTS(P) | |
| | I14 | 60PBX01 | MH-P-3 | 3"PVC | 60G0301(C), 60G0302(C), 60G0301/2(P), 60LSH3011(C), 60FV6011(C), 60FV6012(C), 60FV6011/12(P), 60LIT3021(C), 60LIT3022(C) | |
| | I15 | 60PBX01 | MH-P-3 | 2"PVC | 60G0401(C), 60G0402(C), 60G0401/2 (P) | |
| | I16 | 60PBX01 | MH-P-3 | 2"PVC | 60HEAT1(P), 60HEAT2(P), 60HEAT3(P) | |

| SITE ROUTED CONDUIT SCHEDULE | | | | | | |
|------------------------------|--------------|-----------------------|----------|-------------------------|---|---|
| DUCTBANK NAME | CONDUIT NAME | FROM | TO | SERVICE/TYPE | CIRCUIT(S) | REMARKS |
| | I17 | 60PBX01 | MH-P-3 | 2"PVC | 60HEAT4(P), 60HEAT5(P), 60HEAT6(P) | |
| | I18 | 60PBX01 | MH-P-3 | 2"PVC | 60HEAT7(P), 60HEAT8(P), 60HEAT9(P) | |
| | I19 | 60PBX01 | MH-P-3 | 2"PVC | PULLWIRE | SPARE |
| | I20 | 60PBX01A | HH-LV-3 | 2" PVC | 10/60 FACP(C) | EXTEND TO 60FACP01 IN RGS CONDUIT |
| | I21 | 61PBX01A | HH-LV-3 | 2" PVC | PULLWIRE | SPARE |
| | I22 | 61PBX01A | HH-LV-3 | 3" PVC | PULLWIRE | SPARE |
| J | J01 | VLR-CP01 | HH-LV-5 | 1" PVC COATED RGS | 72PIT3101(A) | |
| | J02 | VLR-CP01 | HH-LV-5 | 1" PVC COATED RGS | PULLWIRE | SPARE |
| K | K01 | STUB BELOW CABLE TRAY | HH-LV-8 | 4" PVC | CTL/BLR FIBER(C), PP/PLCS FIBER(C), PP/FPP FIBER(C) | STUB CONDUIT INTO SERVER ROOM BELOW CABLE TRAY. EXTEND CABLE TO END DEVICE PER CIRCUIT SCHEDULE |
| | K02 | STUB BELOW CABLE TRAY | HH-LV-8 | 2" PVC | PULLWIRE | SPARE |
| | K03 | STUB BELOW CABLE TRAY | HH-LV-8 | 2" PVC | PULLWIRE | SPARE |
| | K04 | STUB BELOW CABLE TRAY | HH-LV-8 | 4" PVC | PULLWIRE | SPARE |
| | K05 | STUB IN ELEC. RM | MH-P-8 | 2" PVC | PULLWIRE | SPARE |
| | K06 | STUB IN ELEC. RM | MH-P-8 | 2" PVC | PULLWIRE | SPARE |
| | K07 | STUB IN ELEC. RM | MH-P-8 | 3" PVC | PULLWIRE | SPARE |
| | K08 | STUB IN ELEC. RM | MH-P-8 | 3" PVC | PULLWIRE | SPARE |
| | K09 | 95IP01 | MH-P-8 | 2" PVC | 95IP01(P) | |
| | K10-A | 95FACP01 | HH-LV-8 | 2" PVC | 95/32 FACP(C) | |
| | K10-B | 95FACP01 | HH-LV-8 | 2" PVC | BIO/95 FACP(C) | |
| | K11 | 95MCC01 | MH-P-8 | 3" PVC | 95MCC01(P1) | |
| | K12 | 95MCC01 | MH-P-8 | 3" PVC | 95MCC01(P2) | |
| | K13 | TELEPHONE BACKBOARD | HH-LV-8 | 2" PVC | 95 TELCO(C) | |
| | K14 | 95DP02 | MH-P-8 | 2" PVC | SITE LGTS 3(P) | |
| | K15 | 95LP02 | MH-P-8 | 2" PVC | SITE LGTS 4(P) | |
| | K16 | TELCO BACKBD | HH-LV-8 | 2" PVC | ALARMS(C) | |
| L | L01 | BLR-CP01 | 70PBX01A | 1 1/2" PVC COATED RIGID | 70AIT3001(A), 70AIT3002(A), 70AIT3021(A), 70AIT3022(A), 70LIT3011(A), 70LIT3012(A), 70LIT3131(A) | |
| | L02 | MCC-32A | 70PBX01 | 1 1/2" PVC | 70CS2101(C), 70CS2101(P) | |
| | L03 | MCC-32B | 70PBX01 | 1 1/2" PVC | 70CS2102(C), 70CS2102(P) | |
| | L04 | MCC-32A | 70PBX01 | 2"PVC | 70CS0101(C), 70CS0101(P), 70CS0201(C), 70CS0201(P) | |
| | L05 | MCC-32B | 70PBX01 | 2"PVC | 70CS0102(C), 70CS0102(P), 70CS0202(C), 70CS0202(P) | |
| | L06 | BLR-CP01 | 70PBX01 | 3"PVC | 70FV6001(C), 70FV6011(C), 70FV6012(C), 70FV6002(C), 70FV6021(C), 70FV6022(C) | |
| | L07 | 32DP01 | 70PBX01 | 1 1/2" PVC | 70FV6001/1/21(P), 70FV6002/12/22(P) | |
| | L08 | 32IP01 | 70PBX01 | 1 1/2" PVC | 70INST(P) | |
| | L09 | STUB IN ELEC. RM | 70PBX01 | 2"PVC | PULLWIRE | SPARE |
| | L10 | STUB IN ELEC. RM | 70PBX01A | 2"PVC COATED RGS | PULLWIRE | SPARE |
| | L11 | BLR-CP01 | 70PBX01A | 2"PVC COATED RGS | 72AIT3001(A), 72AIT3002(A), 72LIT3011(A), 72LIT3012(A), 72LIT3121(A) | |
| | L12 | MCC-32A | 72PBX01 | 2"PVC | 72CS2101(C), 72CS2101(P) | |
| | L13 | BLR-CP01 | 72PBX01 | 3"PVC | 72FV6001(C), 72FV6011(C), 72FV6021(C), 72FV6002(C), 72FV6012(C), 72FV6022(C), 72FV6201(C), 72FV6211(C) | |
| | L14 | 32DP02 | 72PBX01 | 2"PVC | 72FV6001/1/21(P), 72FV6002/12/22(P) | |
| | L15 | 32DP02 | 72PBX01 | 1 1/2" PVC | 72FV6201/11(P) | |

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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

ELECTRICAL
SITE ROUTED CONDUIT SCHEDULE

| | |
|-------|-------------|
| SHEET | 470 |
| DWG | 91-E-557 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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| SITE ROUTED CONDUIT SCHEDULE | | | | | | | | | | | |
|------------------------------|--------------|----------|-----------------|-----------------------|---|---|----------|---------------------|-------------------------|-----------|--|
| DUCTBANK NAME | CONDUIT NAME | FROM | TO | SERVICE/TYPE | CIRCUIT(S) | REMARKS | | | | | |
| M | M01 | 35PBX01A | BLR-CP01 | 1 1/2" PVC COATED RGS | 77FIT3211(A), 77FIT3212(A), 77FIT3213(A), 77FIT3214(A) | | | | | | |
| | | | | | 77FV3211(C), 77FV3212(C), 77PDSH3031(C), 77PDSH3032(C), 77PSH3051(C), 77PSH3052(C), 77TSH3041(C), 77TSH3042(C) | | | | | | |
| | M02 | 35PBX01 | BLR-CP01 | 2" PVC | 77FV3213(C), 77FV3214(C), 77PDSH3131(C), 77PDSH3132(C), 77PSH3151(C), 77PSH3152(C), 77TSH3141(C), 77TSH3142(C), 77ZS3301(C), 77ZS3302(C) | | | | | | |
| | | | | | M03 | 35PBX01 | BLR-CP01 | 2" PVC | 32INST(P) | | |
| | | | | | M04 | 35PBX01 | 32IP01 | 2" PVC | PULLWIRE | SPARE | |
| | | | | | M05 | STUB IN ELEC. RM | 35PBX01 | 2" PVC | PULLWIRE | SPARE | |
| | | | | | M06 | STUB IN ELEC. RM | 35PBX01 | 2" PVC | PULLWIRE | SPARE | |
| | | | | | M07 | BLR-CP01 | 35PBX01A | 2" PVC COATED RIGID | PULLWIRE | SPARE | |
| | | | | | M08 | MCC-32A | 35PBX01A | RIGID | 1 1/2" PVC COATED RIGID | MCC-1(C1) | |
| | | | | | | | | | 1 1/2" PVC COATED RIGID | MCC-1(C2) | |
| N | N01 | MH-P-5 | MH-P-11 | 4" PVC | MCC-10A(P1) | | | | | | |
| | N02 | MH-P-5 | MH-P-11 | 4" PVC | MCC-10A(P2) | | | | | | |
| | N03 | MH-P-5 | MH-P-11 | 4" PVC | PULL STRING | SPARE | | | | | |
| | N04 | MH-P-5 | MH-P-11 | 4" PVC | PULL STRING | SPARE | | | | | |
| O | O01 | MH-P-11 | MH-P-6 | 4" PVC | MCC-10A(P1) | | | | | | |
| | O02 | MH-P-11 | MH-P-6 | 4" PVC | MCC-10A(P2) | | | | | | |
| | O03 | MH-P-11 | MH-P-6 | 4" PVC | PULL STRING | SPARE | | | | | |
| | O04 | MH-P-11 | MH-P-6 | 4" PVC | PULL STRING | SPARE | | | | | |
| P | P01 | MH-P-6 | Via HH-3 (EXST) | 4" PVC | MCC-10A(P1) | EXTEND WIRES FROM EXISTING HH-3 TO SWBD-2 VIA EXISTING CONDUITS | | | | | |
| | | | Via HH-3 (EXST) | 4" PVC | MCC-10A(P2) | EXTEND WIRES FROM EXISTING HH-3 TO SWBD-2 VIA EXISTING CONDUITS | | | | | |
| | P03 | MH-P-6 | Via HH-3 (EXST) | 4" PVC | PULL STRING | SPARE | | | | | |
| | P04 | MH-P-6 | Via HH-3 (EXST) | 4" PVC | PULL STRING | SPARE | | | | | |
| Q | Q01 | PS-A | MH-HV-1 | 5" PVC | TX-10A(P) | | | | | | |
| | Q02 | PS-A | MH-HV-1 | 5" PVC | PULLWIRE | SPARE | | | | | |
| R | R01 | MH-HV-1 | TX-10A | 5" PVC | TX-10A(P) | | | | | | |
| | R02 | MH-HV-1 | TX-10A | 5" PVC | PULLWIRE | SPARE | | | | | |

| SITE ROUTED CONDUIT SCHEDULE | | | | | | |
|------------------------------|--------------|-----------------------------------|------------|-------------------|-----------------------------|--|
| DUCTBANK NAME | CONDUIT NAME | FROM | TO | SERVICE/TYPE | CIRCUIT(S) | REMARKS |
| S | S01 | TX-32A | MH-HV-7 | 5" PVC | PULLWIRE | SPARE |
| | S02 | TX-32A | MH-HV-7 | 5" PVC | PULLWIRE | SPARE |
| T | T01 | TX-32B | MH-HV-8 | 5" PVC | TX-32B(P) | |
| | T02 | TX-32B | MH-HV-8 | 5" PVC | PULLWIRE | SPARE |
| | T03 | HH-LV-11 | HH-LV-6 | 2" PVC | BIO/FPP FIBER(C) | |
| | T04 | HH-LV-11 | HH-LV-6 | 2" PVC | PULLWIRE | SPARE |
| | T05 | HH-LV-11 | HH-LV-6 | 2" PVC | BIO TELCO(C) | |
| | T06 | HH-LV-11 | HH-LV-6 | 2" PVC | BIO FIRE (C) | |
| | T07 | HH-LV-11 | HH-LV-6 | 2" PVC | BIO/95 FACP(C) | |
| | T08 | HH-LV-11 | HH-LV-6 | 2" PVC COATED RGS | PULLWIRE | SPARE |
| U | U01 | BIOSOLIDS FIBER CABINET | PB#7(EXST) | EXST CONDUIT | BIO/FPP FIBER(C) | |
| | U02 | BIOSOLIDS FIBER CABINET | PB#7(EXST) | EXST CONDUIT | PULLWIRE | SPARE |
| | U03 | BIOSOLIDS TELEPHONE TB | PB#7(EXST) | EXST CONDUIT | BIO TELCO(C) | |
| | U04 | BIOSOLIDS FIRE ALARM PANEL | PB#7(EXST) | EXST CONDUIT | BIO FIRE (C) | |
| | U05 | MCC-10A | PB#6(EXST) | EXST CONDUIT | MCC-10A(P1), MCC-10A(P2) | |
| | U06 | MCC-10A | PB#6(EXST) | EXST CONDUIT | PULLWIRE | |
| | U07 | BIOSOLIDS FACP (FIRE ALARM PANEL) | PB#6(EXST) | EXST CONDUIT | BIO/95 FACP(C) | |
| | U08 | 72PIT3101(A) | PB#6(EXST) | EXST CONDUIT | 72PIT3101(A) | SEE 15-E-141 FOR CONTINUATION FROM EXISTING CONDUIT STUB TO DEVICE |
| V | V01 | PMC-B | PS-B | 5" PVC | PS-B(P) | |
| | V02 | PMC-B | PS-B | 5" PVC | PULLWIRE | SPARE |
| W | W01 | PS-B | MH-HV-8 | 5" PVC | TX-32B(P) | |
| | W02 | PS-B | MH-HV-8 | 5" PVC | PULLWIRE | SPARE |
| X | X01 | TX-32B | MH-HV-3 | 5" PVC | TX-10B(P) | |
| | X02 | TX-32B | MH-HV-3 | 5" PVC | PULLWIRE | SPARE |
| | X03 | TX-32A | MH-HV-5 | 5" PVC | PULLWIRE | SPARE |
| | X04 | TX-32A | MH-HV-5 | 5" PVC | TX-32A(P) | |
| Y | Y01 | MH-HV-3 | MH-HV-2 | 5" PVC | TX-10B(P) | |
| | Y02 | MH-HV-3 | MH-HV-2 | 5" PVC | PULLWIRE | SPARE |
| | Y03 | MH-HV-5 | MH-HV-6 | 5" PVC | PULLWIRE | SPARE |
| | Y04 | MH-HV-5 | MH-HV-6 | 5" PVC | TX-32A(P) | |
| Z | Z01 | TX-10B | MH-HV-2 | 5" PVC | TX-10B(P) | |
| | Z02 | TX-10B | MH-HV-2 | 5" PVC | PULLWIRE | SPARE |
| | Z03 | TX-10A | MH-HV-6 | 5" PVC | PULLWIRE | SPARE |
| | Z04 | TX-10A | MH-HV-6 | 5" PVC | TX-32A(P) | |

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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

ELECTRICAL
SITE ROUTED CONDUIT SCHEDULE

| | |
|-------|-------------|
| SHEET | 471 |
| DWG | 91-E-558 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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| SITE ROUTED CONDUIT SCHEDULE | | | | | | |
|------------------------------|--------------|--------------|--------------|-------------------|--------------------------------------|---------------|
| DUCTBANK NAME | CONDUIT NAME | FROM | TO | SERVICE/TYPE | CIRCUIT(S) | REMARKS |
| AA | AA01 | HH-LV-2 | IPS Basement | 2" PVC | IPS/HDW FIBER(C) | See RFI E-110 |
| | AA02 | HH-LV-2 | IPS Basement | 2" PVC | 20/10 FACP(C) | See RFI E-110 |
| | AA03 | HH-LV-2 | IPS Basement | 2" PVC COATED RGS | PULLWIRE | SPARE |
| | AA04 | HH-LV-2 | IPS Basement | 2" PVC | PULLWIRE | SPARE |
| | AA05 | MH-P-2 | IPS Basement | 3" PVC | PULLWIRE | SPARE |
| | AA06 | MH-P-2 | IPS Basement | 3" PVC | PULLWIRE | SPARE |
| BB | BB01 | PB#7(EXST) | HH-LV-12 | 2" PVC | BIO/FPP FIBER(C) | |
| | BB02 | PB#7(EXST) | HH-LV-12 | 2" PVC | PULLWIRE | SPARE |
| | BB03 | PB#7(EXST) | HH-LV-12 | 2" PVC | BIO TELCO(C) | |
| | BB04 | PB#7(EXST) | HH-LV-12 | 2" PVC | BIO FIRE (C) | |
| | BB05 | PB#7(EXST) | HH-LV-12 | 2" PVC | BIO/95 FACP(C) | |
| | BB06 | PB#7(EXST) | HH-LV-12 | 2" PVC COATED RGS | 72PIT3101(A) | |
| CC | CC01 | HH-LV-12 | HH-LV-5 | 2" PVC | BIO/FPP FIBER(C) | |
| | CC02 | HH-LV-12 | HH-LV-5 | 2" PVC | PULLWIRE | SPARE |
| | CC03 | HH-LV-12 | HH-LV-5 | 2" PVC | BIO TELCO(C) | |
| | CC04 | HH-LV-12 | HH-LV-5 | 2" PVC | BIO FIRE (C) | |
| | CC05 | HH-LV-12 | HH-LV-5 | 2" PVC | BIO/95 FACP(C) | |
| | CC06 | HH-LV-12 | HH-LV-5 | 2" PVC COATED RGS | 72PIT3101(A) | |
| DD | DD01 | HH-LV-5 | HH-LV-11 | 2" PVC | BIO/FPP FIBER(C) | |
| | DD02 | HH-LV-5 | HH-LV-11 | 2" PVC | PULLWIRE | SPARE |
| | DD03 | HH-LV-5 | HH-LV-11 | 2" PVC | BIO TELCO(C) | |
| | DD04 | HH-LV-5 | HH-LV-11 | 2" PVC | BIO FIRE (C) | |
| | DD05 | HH-LV-5 | HH-LV-11 | 2" PVC | BIO/95 FACP(C) | |
| | DD06 | HH-LV-5 | HH-LV-11 | 2" PVC COATED RGS | SPARE | |
| EE | EE01 | PMC-A | PS-A | 5" PVC | TX-10A(P) | |
| | EE02 | PMC-A | PS-A | 5" PVC | PULLWIRE | SPARE |
| FF | FF01 | HH-LV-8 | PB#15 (EXST) | 2" PVC | PP/PLC5 FIBER(C), PP/FPP FIBER(C) | VIA PB#14 |
| | FF02 | HH-LV-8 | PB#15 (EXST) | 2" PVC | 95 TELCO(C) | VIA PB#14 |
| | FF03 | HH-LV-8 | PB#15 (EXST) | 2" PVC | BIO/FPP FIBER(C) | VIA PB#14 |
| | FF04 | HH-LV-8 | PB#15 (EXST) | 2" PVC | ALARMS(C) | VIA PB#14 |
| | FF05 | HH-LV-8 | PB#15 (EXST) | 2" PVC | BIO TELCO(C) | VIA PB#14 |
| | FF06 | HH-LV-8 | PB#15 (EXST) | 2" PVC | BIO FIRE (C) | VIA PB#14 |
| | FF07 | HH-LV-8 | PB#15 (EXST) | 2" PVC COATED RGS | SPARE | VIA PB#14 |
| GG | GG01 | PB#15 (EXST) | PB#16 (EXST) | EXST CONDUIT | PP/PLC5 FIBER(C), PP/FPP FIBER(C) | |
| | GG02 | PB#15 (EXST) | PB#16 (EXST) | EXST CONDUIT | BIO/FPP FIBER(C) | |
| | GG03 | PB#15 (EXST) | PB#16 (EXST) | EXST CONDUIT | ALARMS(C) | |
| | GG04 | PB#15 (EXST) | PB#16 (EXST) | EXST CONDUIT | BIO TELCO(C) | |
| | GG05 | PB#15 (EXST) | PB#16 (EXST) | EXST CONDUIT | BIO FIRE (C) | |
| | GG06 | PB#15 (EXST) | PB#16 (EXST) | EXST CONDUIT | 95 TELCO(C) | |
| HH | HH01 | PB#16 (EXST) | PB#17 (EXST) | EXST CONDUIT | PP/PLC5 FIBER(C), PP/FPP FIBER(C) | |
| | HH02 | PB#16 (EXST) | PB#17 (EXST) | EXST CONDUIT | BIO/FPP FIBER(C) | |
| | HH03 | PB#16 (EXST) | PB#17 (EXST) | EXST CONDUIT | ALARMS(C) | |
| | HH04 | PB#16 (EXST) | PB#17 (EXST) | EXST CONDUIT | BIO TELCO(C) | |
| | HH05 | PB#16 (EXST) | PB#17 (EXST) | EXST CONDUIT | BIO FIRE (C) | |
| | HH06 | PB#16 (EXST) | PB#17 (EXST) | EXST CONDUIT | 95 TELCO(C) | |

| SITE ROUTED CONDUIT SCHEDULE | | | | | | |
|------------------------------|--------------|--------------|----------|-----------------------|--|--|
| DUCTBANK NAME | CONDUIT NAME | FROM | TO | SERVICE/TYPE | CIRCUIT(S) | REMARKS |
| II | II01 | PB#17 (EXST) | PULLBOX | EXST CONDUIT | PP/PLC5 FIBER(C), PP/FPP FIBER(C) | |
| | II02 | PB#17 (EXST) | PULLBOX | EXST CONDUIT | BIO/FPP FIBER(C) | |
| | II03 | PB#17 (EXST) | PULLBOX | EXST CONDUIT | ALARMS(C) | |
| | II04 | PB#17 (EXST) | PULLBOX | EXST CONDUIT | BIO TELCO(C) | |
| | II05 | PB#17 (EXST) | PULLBOX | EXST CONDUIT | BIO FIRE (C) | |
| | II06 | PB#17 (EXST) | PULLBOX | EXST CONDUIT | 95 TELCO(C) | |
| JJ | JJ1 | 45PBX02A | HH-LV-2 | 1 1/2" PVC COATED RGS | 45LIT3002(A), 50FIT3012(A), 50LIT3022(A) | |
| | JJ2 | 45PBX02 | MH-P-2 | 2 1/2" PVC | 50CS0102(P), 50CS0202(P) | |
| | JJ3 | 45PBX02 | MH-P-2 | 2" PVC | 45CS1102B(C), 45FV6002/12(P), 45INST2(P), 50LIT3022(C) | |
| | | | | | 45CS0102(C), 45M0102(C), 45M0102(P), 45CS1102(P) | |
| | | | | | 45CS1102A(C), 45G0112(C), 45G0112(P), 45ZS3102(C), 45FV6102(C), 50CS0102(C), 50CS0202(C) | |
| | JJ4 | 45PBX02 | MH-P-2 | 2" PVC | 45CS1102A(C), 45G0112(C), 45G0112(P), 45ZS3102(C), 45FV6102(C), 50CS0102(C), 50CS0202(C) | |
| | JJ5 | 45PBX02 | MH-P-2 | 2 1/2" PVC | PULLWIRE | SPARE |
| | JJ6 | 45PBX02 | MH-P-2 | 2" PVC | 45RECEPT A2(P), 45LIGHTS 2(P) | |
| | JJ7 | 45PBX02 | MH-P-2 | 2" PVC | 45HEAT A2(P), 45HEAT B2(P), 45HEAT C2(P) | |
| | JJ8 | 45PBX02 | MH-P-2 | 2" PVC | 45RECEPT B2(P) | |
| | JJ9 | 45PBX02 | MH-P-2 | 2" PVC | | |
| | KK | KK1 | 45PBX03A | HH-LV-2 | 1 1/2" PVC COATED RGS | 45LIT3003(A), 50FIT3013(A), 50LIT3023(A) |
| KK2 | | 45PBX03 | MH-P-2 | 2 1/2" PVC | 50CS0103(P), 50CS0203(P) | |
| KK3 | | 45PBX03 | MH-P-2 | 2" PVC | 45CS1103B(C), 45FV6003/13(P), 45INST3(P), 50LIT3023(C) | |
| | | | | | 45CS0103(C), 45M0103(C), 45M0103(P), 45CS1103(P) | |
| KK4 | | 45PBX03 | MH-P-2 | 2" PVC | 45CS1103A(C), 45G0113(C), 45RECEPTA3(P), 45G0113(P), 45FV6103(C), 45ZS3103(C) | |
| KK | KK5 | 45PBX03 | MH-P-2 | 2 1/2" PVC | 50CS0103(C), 50CS0203(C), 45RECEPTB3(P), 45LIGHTS3(P) | |
| | KK6 | 45PBX03 | MH-P-2 | 2" PVC | 45HEATA3(P), 45HEATB3(P) | |
| | KK7 | 45PBX03 | MH-P-2 | 2" PVC | 45HEATC3(P) | |
| | KK8 | 45PBX03 | MH-P-2 | 2" PVC | PULLWIRE | SPARE |
| | KK9 | 45PBX03 | MH-P-2 | 2" PVC | | |

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| | | | | | | | | | |
|------------------------------|----------|------|----------|----|------|--|--|--|--|
| DSGN B RODGERS KL MAESTRI | | | | | | | | | |
| DR G LOVE | | | | | | | | | |
| CHK G DEBOIS JB MAURAS | | | | | | | | | |
| APVD CW MASSIE | 01/20/10 | | | | | | | | |
| | NO. | DATE | REVISION | BY | APVD | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

ELECTRICAL
SITE ROUTED CONDUIT SCHEDULE

| | |
|-------|-------------|
| SHEET | 472 |
| DWG | 91-E-559 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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| SITE ROUTED CONDUIT SCHEDULE | | | | | | |
|------------------------------|--------------|------------------|----------|---|---|---|
| DUCTBANK NAME | CONDUIT NAME | FROM | TO | SERVICE/TYPE | CIRCUIT(S) | REMARKS |
| LL | LL01 | HH-LV-10 | HH-LV-5 | 1"PVC | SIT2/VLR FIBER (C) | |
| | LL02 | HH-P-1 | HH-P-2 | 1"PVC | SIT-CP01(P) | |
| | LL03 | HH-P-1 | HH-P-2 | 1"PVC | GATE-2(P) | |
| | LL04 | HH-P-1 | HH-P-2 | 1"PVC | GATE-2(C) | |
| MM | MM01 | SIT-CP02 | HH-LV-10 | 1"PVC | SIT2/VLR FIBER (C) | |
| | MM02 | SIT-CP02 | HH-P-1 | 1"PVC | SIT-CP01(P) | |
| | MM03 | GATE-2 | HH-P-1 | 1"PVC | GATE-2(P) | |
| | MM04 | GATE-2 | HH-P-1 | 1"PVC | GATE-2(C) | |
| NN | NN01 | SIT-CP01 | CTL-CP01 | 1"PVC | SIT1/CTL FIBER(C) | |
| | NN02 | SIT-CP01 | 95LP01 | 1"PVC | SIT-CP01(P) | |
| | NN03 | GATE-1 | 95LP01 | 1"PVC | GATE-1(P) | |
| | NN04 | GATE-1 | CTL-CP01 | 1"PVC | GATE-1(C) | |
| | NN05 | METER VAULT SUMP | 95LP02 | 2" PVC | SUMP(P) | |
| | NN06 | METER VAULT SUMP | 95LP02 | 1"PVC | Spare | |
| | NN07 | METER VAULT SUMP | 95LP02 | 1"PVC | Spare | |
| OO | OO1 | SWBD-1 | SWGR-32A | 3"PVC | SWBD1A(P) | |
| | OO2 | SWBD-1 | SWGR-32A | 3"PVC | SWBD1B(P) | |
| | OO3 | SWBD-1 | SWGR-32A | 3"PVC | SWBD1C(P) | |
| QQ | QQ01 | PB#7(EXST) | HH-LV-7 | 2" PVC COATED RGS | PULLWIRE | SPARE |
| | QQ02 | PB#7(EXST) | HH-LV-7 | 2" PVC COATED RGS | PULLWIRE | SPARE |
| | QQ03 | PB#7(EXST) | HH-LV-7 | 2" PVC COATED RGS | PULLWIRE | SPARE |
| | QQ04 | PB#7(EXST) | HH-LV-7 | 2" PVC COATED RGS | PULLWIRE | SPARE |
| RR | RR01 | HH-LV-6 | HH-LV-8 | 2" PVC | BIO/FPP FIBER(C) | |
| | RR02 | HH-LV-6 | HH-LV-8 | 2" PVC | PULLWIRE | SPARE |
| | RR03 | HH-LV-6 | HH-LV-8 | 2" PVC | BIO TELCO(C) | |
| | RR04 | HH-LV-6 | HH-LV-8 | 2" PVC | BIO FIRE (C) | |
| | RR05 | HH-LV-6 | HH-LV-8 | 2" PVC | BIO/95 FACP(C) | |
| | RR06 | HH-LV-6 | HH-LV-8 | 2" PVC COATED RGS | PULLWIRE | SPARE |
| SS | SS01 | 30PBX2B1 | MH-P-9 | 1 1/2" PVC | 30M1512(P) | TRANSITION TO PVC COATED RGS 2' BEFORE CONDUIT BECOME EXPOSED. EXTEND PVC COATED RGS TO PBX |
| | SS02 | 30PBX2B1 | MH-P-9 | 1 1/2" PVC | 30M1612(P) | SEE NOTE FOR CONDUIT SS01 |
| | | | | | 30TJB2B1(P), 30TJB2B1(C), 30TJB2B3(P), 30CS1512(C) | |
| | SS03 | 30PBX2B1 | MH-P-9 | 3" PVC | 30CS1612(C) | SEE NOTE FOR CONDUIT SS01 |
| | SS04 | 30PBX2C1 | MH-P-9 | 1 1/2" PVC | 30M1522(P) | SEE NOTE FOR CONDUIT SS01 |
| | SS05 | 30PBX2C1 | MH-P-9 | 1 1/2" PVC | 30M1622(P) | SEE NOTE FOR CONDUIT SS01 |
| | | | | | 30TJB2C1(P), 30TJB2C1(C), 30TJB2C3(P), 30CS1522(C) | |
| | SS06 | 30PBX2C1 | MH-P-9 | 3" PVC | 30CS1622(C) | SEE NOTE FOR CONDUIT SS01 |
| | SS07 | 30PBX2D1 | MH-P-9 | 1 1/2" PVC | 30M1532(P) | SEE NOTE FOR CONDUIT SS01 |
| | SS08 | 30PBX2D1 | MH-P-9 | 1 1/2" PVC | 30M1632(P) | SEE NOTE FOR CONDUIT SS01 |
| | | | | 30TJB2D1(P), 30TJB2D1(C), 30TJB2D3(P), 30CS1532(C) | | |
| SS09 | 30PBX2D1 | MH-P-9 | 3" PVC | 30CS1632(C) | SEE NOTE FOR CONDUIT SS01 | |

| SITE ROUTED CONDUIT SCHEDULE | | | | | | |
|------------------------------|----------------|----------------|---------|-----------------------|---|---------------------------|
| DUCTBANK NAME | CONDUIT NAME | FROM | TO | SERVICE/TYPE | CIRCUIT(S) | REMARKS |
| SS | SS10 | 30PBX1D1 | MH-P-9 | 1 1/2" PVC | 30M1531(P) | SEE NOTE FOR CONDUIT SS01 |
| | SS11 | 30PBX1D1 | MH-P-9 | 1 1/2" PVC | 30M1631(P) | SEE NOTE FOR CONDUIT SS01 |
| | | | | | 30TJB1D1(P), 30TJB1D1(C), 30TJB1D3(P), 30CS1531(C) | |
| | SS12 | 30PBX1D1 | MH-P-9 | 3" PVC | 30CS1631(C) | SEE NOTE FOR CONDUIT SS01 |
| | SS13 | 30PBX1C1 | MH-P-9 | 1 1/2" PVC | 30M1521(P) | SEE NOTE FOR CONDUIT SS01 |
| | SS14 | 30PBX1C1 | MH-P-9 | 1 1/2" PVC | 30M1621(P) | SEE NOTE FOR CONDUIT SS01 |
| | | | | | 30TJB1C1(P), 30TJB1C1(C), 30TJB1C3(P), 30CS1521(C) | |
| | SS15 | 30PBX1C1 | MH-P-9 | 3" PVC | 30CS1621(C) | SEE NOTE FOR CONDUIT SS01 |
| | SS16 | 30PBX1B1 | MH-P-9 | 1 1/2" PVC | 30M1511(P) | SEE NOTE FOR CONDUIT SS01 |
| | SS17 | 30PBX1B1 | MH-P-9 | 1 1/2" PVC | 30M1611(P) | SEE NOTE FOR CONDUIT SS01 |
| | | | | | 30TJB1B1(P), 30TJB1B1(C), 30TJB1B3(P), 30CS1511(C) | |
| | SS18 | 30PBX1B1 | MH-P-9 | 3" PVC | 30CS1611(C) | SEE NOTE FOR CONDUIT SS01 |
| | SS19 | 30PBX1A1 | MH-P-9 | 2" PVC | PULLWIRE | |
| | SS20 | 30PBX1A1 | MH-P-9 | 2" PVC | PULLWIRE | |
| | SS21 | 30PBX1A1 | MH-P-9 | 3" PVC | PULLWIRE | |
| | SS22 | 30PBX2B1 | MH-P-9 | 1" PVC | 30TJB4512(P) | |
| | | | | | 30HEAT01(P), 30TJB4511(P) | |
| | SS23 | 30PBX1B1 | MH-P-9 | 1 1/2" PVC | 30AIT4512(A) | SEE NOTE FOR CONDUIT SS01 |
| | | | | | 30AIT4412(A) | |
| | SS24 | 30TJB2B4 | HH-LV-9 | 1" PVC COATED RGS | 30TJB2B4(A) | |
| | SS25 | 30TJB2B4 | HH-LV-9 | 1" PVC COATED RGS | 30TJB2B4(A) | |
| | SS26 | 30TJB2C4 | HH-LV-9 | 1" PVC COATED RGS | 30TJB2C4(A) | |
| | SS27 | 30TJB2D4 | HH-LV-9 | 1" PVC COATED RGS | 30TJB2D4(A) | |
| | SS28 | 30TJB1D4 | HH-LV-9 | 1" PVC COATED RGS | 30TJB1D4(A) | |
| | SS29 | 30TJB1C4 | HH-LV-9 | 1" PVC COATED RGS | 30TJB1C4(A) | |
| | | | | | 30TJB1B4(A), 30AIT4511(A), 30AIT4411(A) | |
| | SS30 | 30TJB1B4 | HH-LV-9 | 1 1/2" PVC COATED RGS | PULLWIRE | |
| | SS31 | 30TJB1A4 | HH-LV-9 | 1" PVC COATED RGS | PULLWIRE | |
| | SS32 | 30PBX1D1 | MH-P-9 | 1" PVC | 30LCP0801(P) | SEE NOTE FOR CONDUIT SS01 |
| | SS33 | So. West comer | MH-P-9 | 2" PVC | PULLWIRE | FOR FUTURE DISC AERATOR |
| | SS34 | So. West comer | MH-P-9 | 2" PVC | PULLWIRE | FOR FUTURE DISC AERATOR |
| | SS35 | So. West comer | MH-P-9 | 3" PVC | PULLWIRE | FOR FUTURE BASIN |
| | SS36 | So. West comer | HH-LV-9 | 2" PVC COATED RGS | PULLWIRE | FOR FUTURE BASIN |
| SS37 | So. West comer | MH-P-9 | 2" PVC | PULLWIRE | SPARE | |
| TT | TT01 | 07PBX01A | MH-LV-3 | 2" PVC COATED RGS | 07AIT3001(A), 07AIT3011(A), 07AIT3021(A) | |
| | | | | | 07CS0101(C), 07CS0102(C), 07G0111(C), 07G0111(P), 07INST(P) | |
| | TT02 | 07PBX01 | MH-P-3 | 2" PVC | 07TX01(P) | |
| | TT03 | 07PBX01 | MH-P-3 | 2" PVC | 07S0121(C) | |
| | TT04 | 07PBX01 | MH-P-3 | 1.5" PVC | 07P0101(P) | |
| TT05 | 07PBX01 | MH-P-3 | 2" PVC | SPARE | PULLWIRE | |

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| | |
|------|------------|
| DSGN | B RODGERS |
| DR | G LOVE |
| CHK | G DEBOIS |
| APVD | JB MAURAIS |
| | CW MASSIE |

| | | |
|-----|----------|---|
| NO. | DATE | REVISION |
| | 01/20/10 | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT |

| | |
|-----|------|
| GRW | KLM |
| BY | APVD |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0  1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

ELECTRICAL
SITE ROUTED CONDUIT SCHEDULE

| | |
|-------|-------------|
| SHEET | 473 |
| DWG | 91-E-560 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

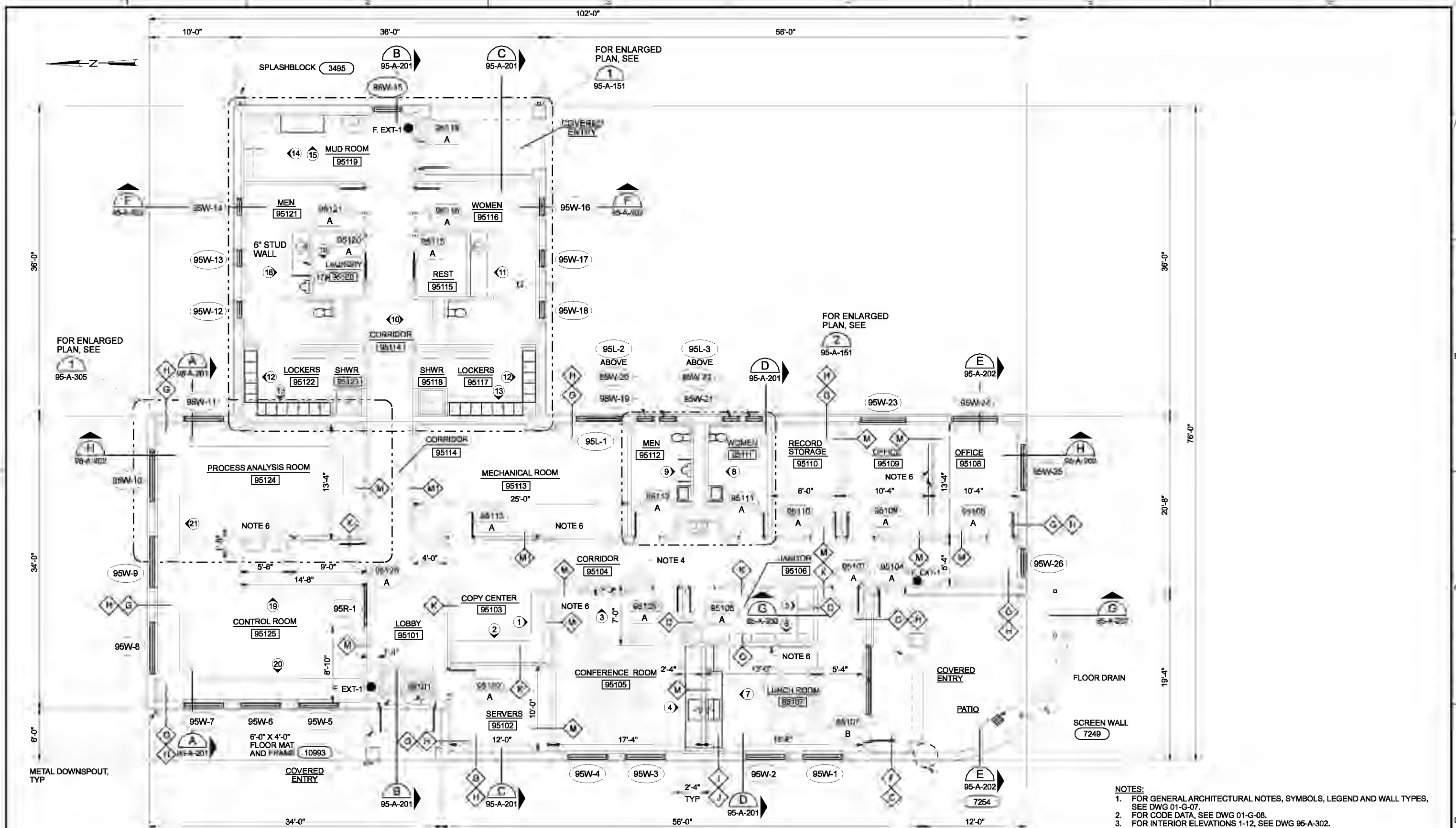
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| SITE ROUTED CONDUIT SCHEDULE | | | | | | |
|------------------------------|--------------|---------|------------|-------------------|--------------------|---------|
| DUCTBANK NAME | CONDUIT NAME | FROM | TO | SERVICE/TYPE | CIRCUIT(S) | REMARKS |
| UU | UU01 | HH-LV-1 | HH-LV-8 | 2" PVC | CLT/BLR FIBER (C) | |
| | UU02 | MH-P-1 | MH-P-8 | 3" PVC | 95MCC01(P1) | |
| | UU03 | MH-P-1 | MH-P-8 | 3" PVC | 95MCC01(P2) | |
| | UU04 | HH-LV-1 | HH-LV-8 | 2" PVC | 95/32 FACP(C) | |
| | UU05 | MH-P-1 | MH-P-8 | 2" PVC | 95IP01(P) | |
| | UU06 | MH-P-1 | MH-P-8 | 3" PVC | PULLWIRE | SPARE |
| | UU07 | MH-P-1 | MH-P-8 | 3" PVC | PULLWIRE | SPARE |
| | UU08 | HH-LV-1 | HH-LV-8 | 2" PVC COATED RGS | PULLWIRE | SPARE |
| | UU09 | HH-LV-1 | HH-LV-8 | 2" PVC COATED RGS | PULLWIRE | SPARE |
| | UU10 | MH-P-1 | MH-P-8 | 2" PVC | LB-UPS(P) | |
| | UU11 | MH-P-1 | MH-P-8 | 2" PVC | PULLWIRE | SPARE |
| | UU12 | HH-LV-1 | HH-LV-8 | 2" PVC COATED RGS | PULLWIRE | SPARE |
| VV | VV01 | MH-P-5 | PB#6(EXST) | 4" PVC | MCC-10A(P1) | |
| | VV02 | MH-P-5 | PB#6(EXST) | 4" PVC | MCC-10A(P2) | |
| | VV03 | MH-P-5 | PB#6(EXST) | 4" PVC | PULL STRING | SPARE |
| | VV04 | MH-P-5 | PB#6(EXST) | 4" PVC | PULL STRING | SPARE |
| XX | XX01 | HH-P-3 | PULLBOX | 2" PVC | LB-UPS(P) | |
| | XX02 | HH-P-3 | PULLBOX | 2" PVC | PULLWIRE | SPARE |
| | XX03 | HH-P-3 | PULLBOX | 2" PVC | PULLWIRE | SPARE |
| YY | YY01 | HH-P-4 | HH-P-3 | 2" PVC | LB-UPS(P) | |
| | YY02 | HH-P-4 | HH-P-3 | 2" PVC | PULLWIRE | SPARE |
| | YY03 | HH-P-4 | HH-P-3 | 2" PVC | PULLWIRE | SPARE |
| ZZ | ZZ01 | MH-P-8 | HH-P-4 | 2" PVC | LB-UPS(P) | |
| | ZZ02 | MH-P-8 | HH-P-4 | 2" PVC | PULLWIRE | SPARE |
| | ZZ03 | MH-P-8 | HH-P-4 | 2" PVC | PULLWIRE | SPARE |

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| | | | | | | | | |
|--|----------------------|--|--------------------|---|--|--|--|--|
| DSGN B RODGERS KL MAESTRI DR G LOVE CHK G DEBOIS JB MAURAS APVD CW MASSIE | NO. DATE REVISION | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | GRW KLM BY APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | | CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENT PROJECT WWTP-03-01 LINN COUNTY, OREGON | ELECTRICAL SITE ROUTED CONDUIT SCHEDULE | SHEET 474 DWG 91-E-561 DATE MAY 19 2006 PROJ 326918 |
|--|----------------------|--|--------------------|---|--|--|--|--|



FLOOR PLAN
3/16"=1'-0"

- NOTES:**
1. FOR GENERAL ARCHITECTURAL NOTES, SYMBOLS, LEGEND AND WALL TYPES, SEE DWG 01-G-07.
 2. FOR CODE DATA, SEE DWG 01-G-08.
 3. FOR INTERIOR ELEVATIONS 1-12, SEE DWG 95-A-302.
 4. PROJECTION SCREEN (CEILING HUNG).
 5. FOR INTERIOR ELEVATIONS 13-21, SEE DWG 95-A-303.
 6. WRITING BOARD AND TACKBOARD.

| | | | | | | | |
|------|------------|----------|------|----------|----|------|--|
| DSGN | JE CAVE | | | | | | |
| DR | WB LOVE | | | | | | |
| CHK | GB KIRSTEN | 01/20/10 | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

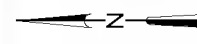


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CONTROL BUILDING
ARCHITECTURAL
FLOOR PLAN

| | |
|-------|-------------|
| SHEET | 475 |
| DWG | 95-A-140 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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ACT, TYP

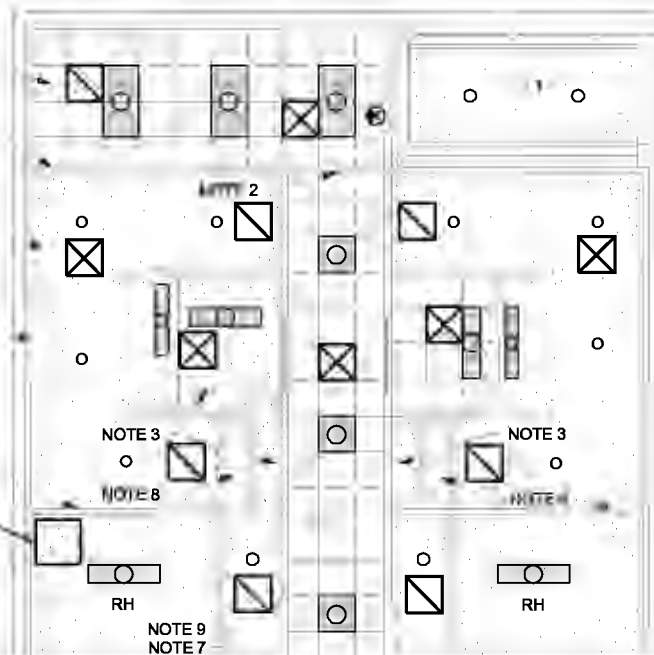
NOTE 5, TYP

GWB ON 6" METAL STUDS @ 16" OC, TYP

NOTE 4, TYP

NOTE 2

NOTE 11



WRB ON 6" METAL STUDS @ 16" OC (NOTE 10)

- REFLECTED CEILING PLAN NOTES:**
1. CEILING HEIGHTS ARE INDICATED IN INTERIOR FINISH SCHEDULE IN SPECIFICATION SECTION 09000, FINISH SCHEDULES. UNLESS NOTED OTHERWISE.
 2. HEADER AT 7'-4" AFF.
 3. SOFFIT AT 7'-4" AFF.
 4. FURRED EXTERIOR WALLS EXTEND TO UNDERSIDE OF METAL DECKING.
 5. PARTITION WALLS TERMINATE AT 8'-6" AFF, UNLESS NOTED OTHERWISE.
 6. PARTITION WALLS AROUND MECHANICAL ROOM EXTEND TO UNDERSIDE OF METAL DECKING.
 7. CANOPY HOOD.
 8. PLUMBING CHASE.
 9. INSTRUMENT VENT.
 10. SOFFIT AT 8'-0" AFF.
 11. 30"x30" CEILING ACCESS PANEL FOR EXHAUST FAN.

NOTE 2

NOTE 8

NOTE 6

NOTE 3

NOTE 6

NOTE 3

NOTE 3

NOTE 3

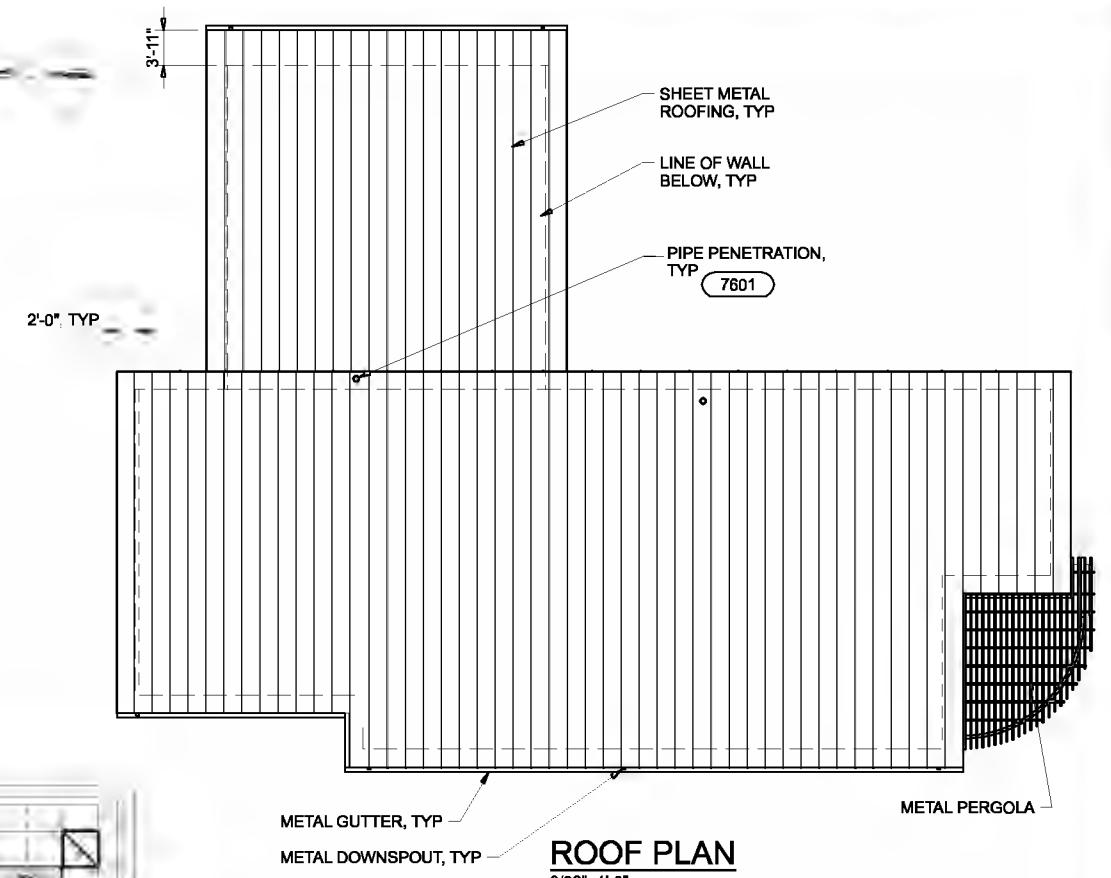
GSB ON 6" METAL STUDS @ 16" OC (NOTE 10)

CONTINUOUS SOFFIT VENT, TYP

NOTE 3

GSB ON 6" METAL STUDS @ 16" OC (NOTE 10)

REFLECTED CEILING PLAN
3/16"=1'-0"



ROOF PLAN
3/32"=1'-0"

REFLECTED CEILING PLAN LEGEND

- | | | |
|-------------------|--|---------------------------|
| CEILINGS | | |
| | GYPSUM BOARD OR GYPSUM SOFFIT BOARD ON FRAMING | |
| | EXPOSED CEILING GRID (ACT) | |
| GRILLES | | |
| | AIR DIFFUSER | |
| | RETURN AIR GRILLE | |
| LUMINAIRES | | |
| | LUMINAIRE IN CEILING GRID | |
| | SURFACE MOUNTED LUMINAIRE | |
| | RECESSED DOWNLIGHT | |
| | SUSPENDED LUMINAIRE | |
| | ILLUMINATED EXIT SIGN | |
| | MISCELLANEOUS | |
| | | MOTORIZED PROJECTION LIFT |
| | | RADIANT HEATER |

| | | | | | | | |
|------|------------|-----|------|----------|----|------|---|
| DSGN | JE CAVE | NO. | DATE | REVISION | BY | APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | WB LOVE | | | | | | |
| CHK | GB KIRSTEN | | | | | | |
| APVD | CW MASSIE | | | | | | |
| | | | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

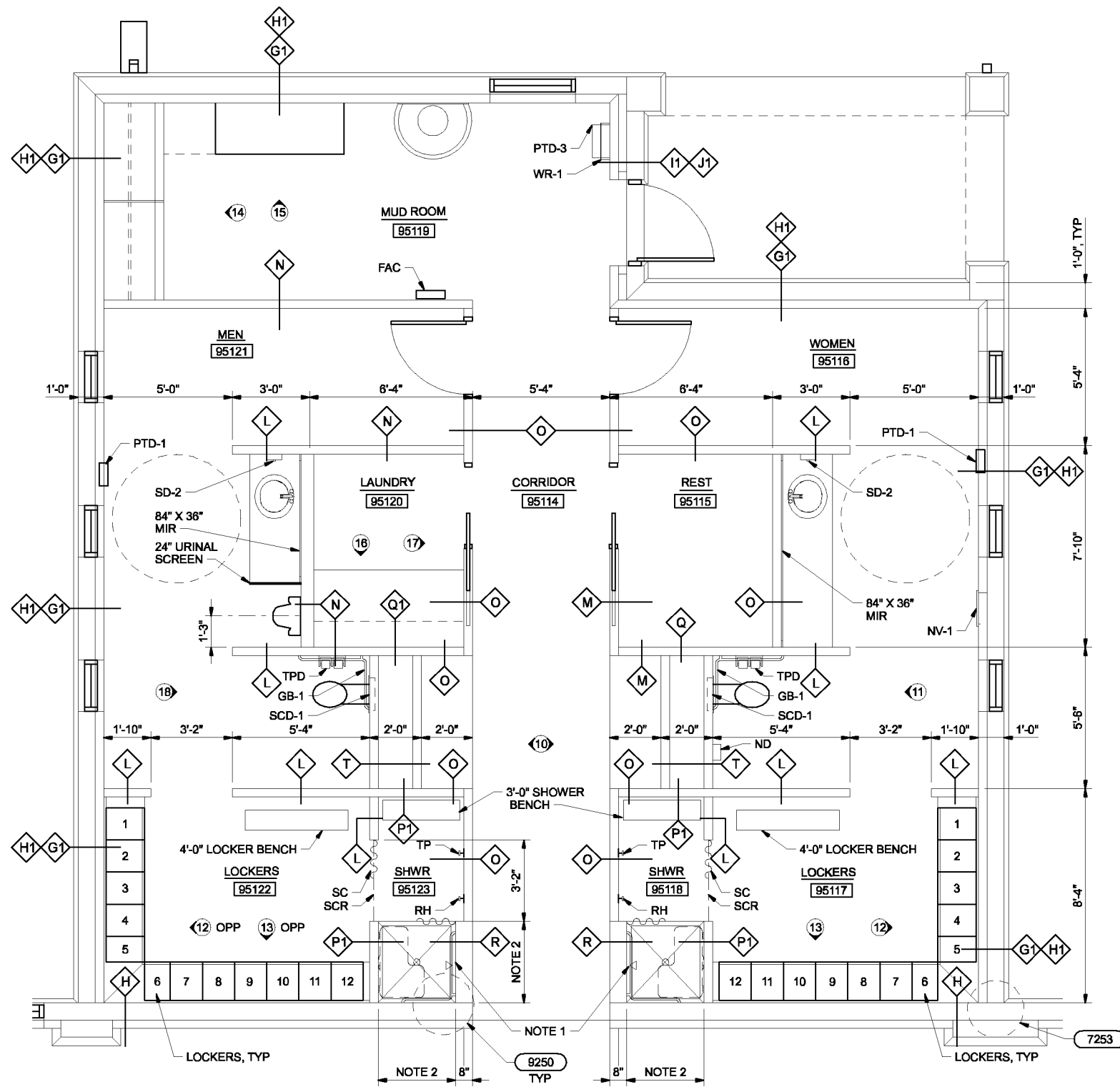


WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CONTROL BUILDING
ARCHITECTURAL
REFLECTED CEILING AND
ROOF PLANS

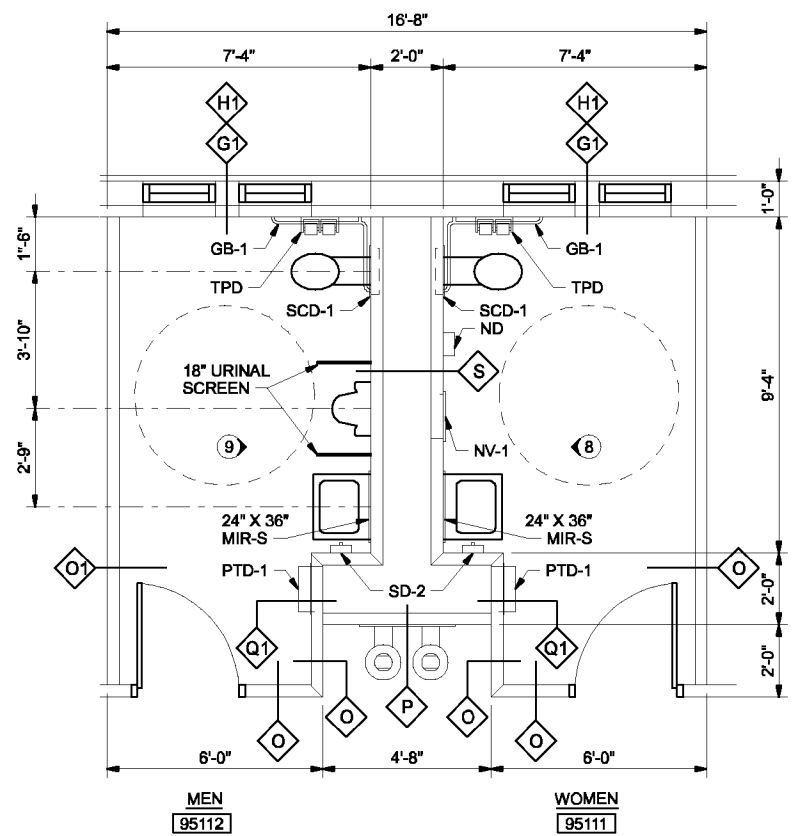
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| SHEET | 476 |
| DWG | 95-A-150 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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ENLARGED PLAN 1
3/8"=1'-0" 20-A-140

- NOTES:**
- HANDICAPPED ACCESSIBLE SHOWER COMPARTMENT.
 - VERIFY ROUGH OPENING WITH SHOWER MANUFACTURER.
 - FOR INTERIOR ELEVATIONS 8-12, SEE DWG 95-A-302.
 - FOR INTERIOR ELEVATIONS 13-18, SEE DWG 95-A-303.
 - FOR WALL TYPES, SEE DWG 01-G-07.



ENLARGED PLAN 2
3/8"=1'-0" 20-A-140

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY JOHN E. CAVE, STATE OF OREGON, NO. 2,429.

| | | | | | | |
|------|------------|-----|------|----------|----|------|
| DSGN | JE CAVE | NO. | DATE | REVISION | BY | APVD |
| DR | WB LOVE | | | | | |
| CHK | GB KIRSTEN | | | | | |
| APVD | CW MASSIE | | | | | |
| | | | | | | |

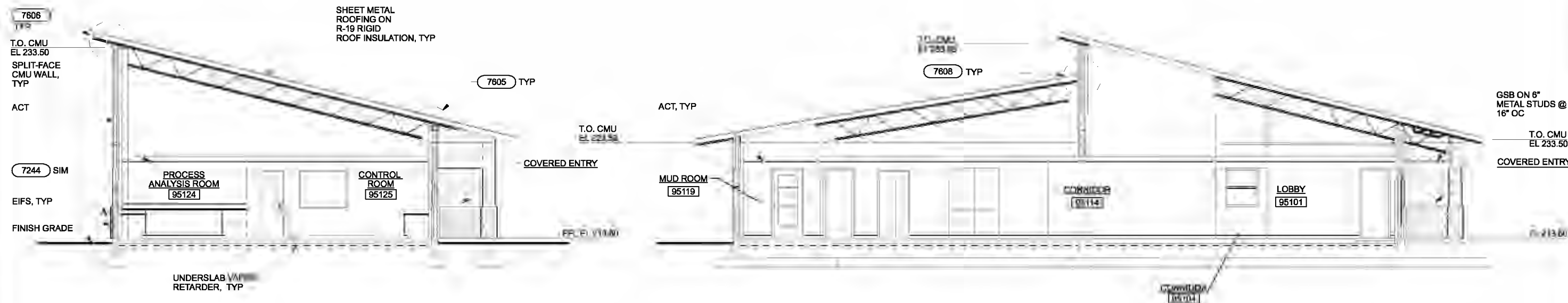
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

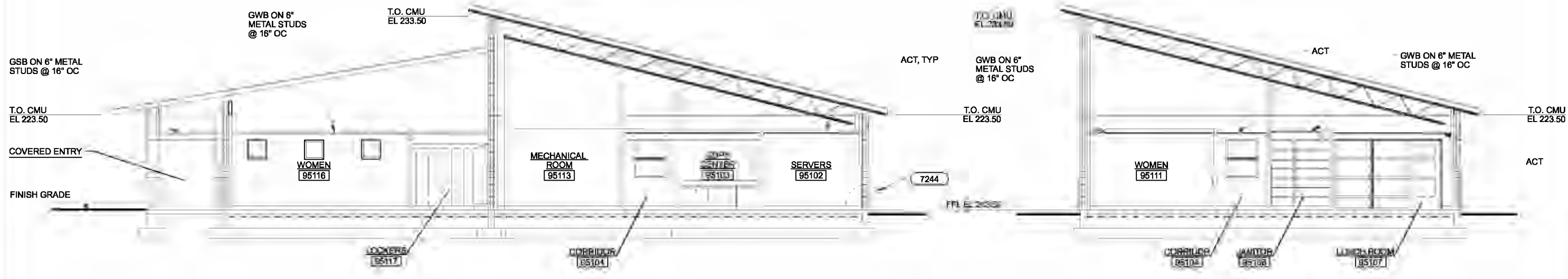
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| CONTROL BUILDING | | SHEET | 477 |
| ARCHITECTURAL ENLARGED PLANS | | DWG | 95-A-151 |
| | | DATE | MAY 19 2006 |
| | | PROJ | 326918 |

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SECTION A
3/16"=1'-0"
95-A-140

SECTION B
3/16"=1'-0"
95-A-140



SECTION C
3/16"=1'-0"
95-A-140

SECTION D
3/16"=1'-0"
95-A-140

| | | | | | | |
|------|------------|-----|------|----------|----|------|
| DSGN | JE CAVE | NO. | DATE | REVISION | BY | APVD |
| DR | WB LOVE | | | | | |
| CHK | GB KIRSTEN | | | | | |
| APVD | CW MASSIE | | | | | |
| | | | | | | |

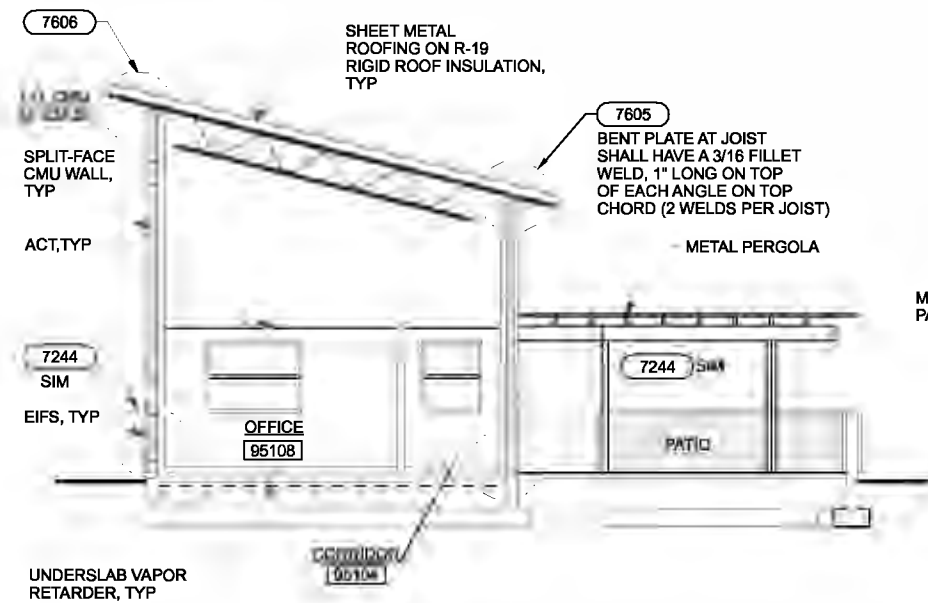
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



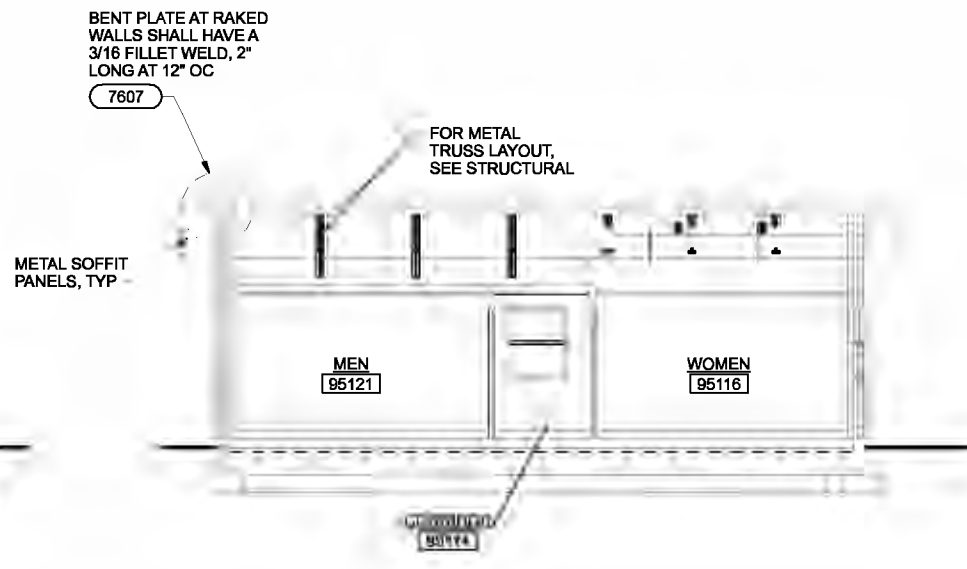
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

| | |
|---|-------------|
| CONTROL BUILDING ARCHITECTURAL SECTIONS | |
| SHEET | 478 |
| DWG | 95-A-201 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

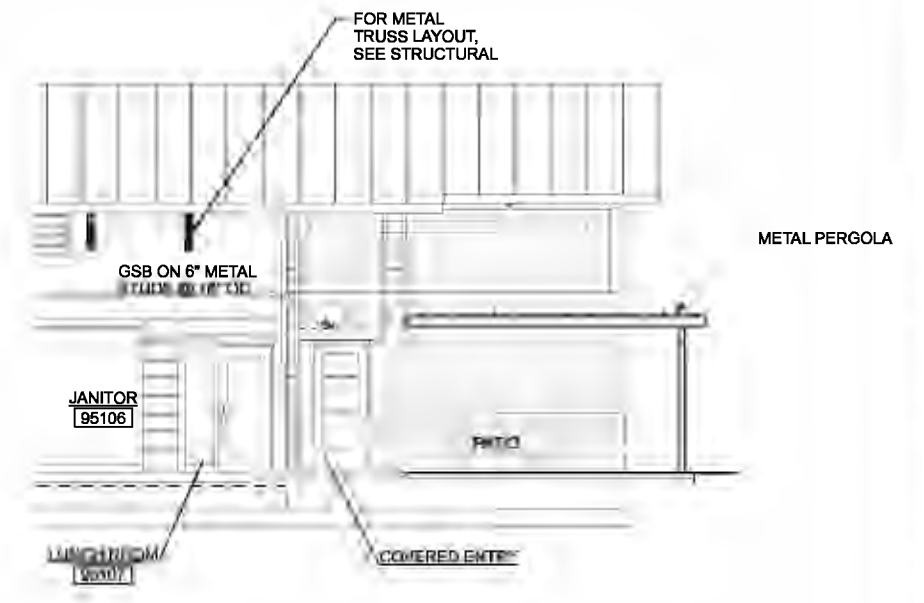
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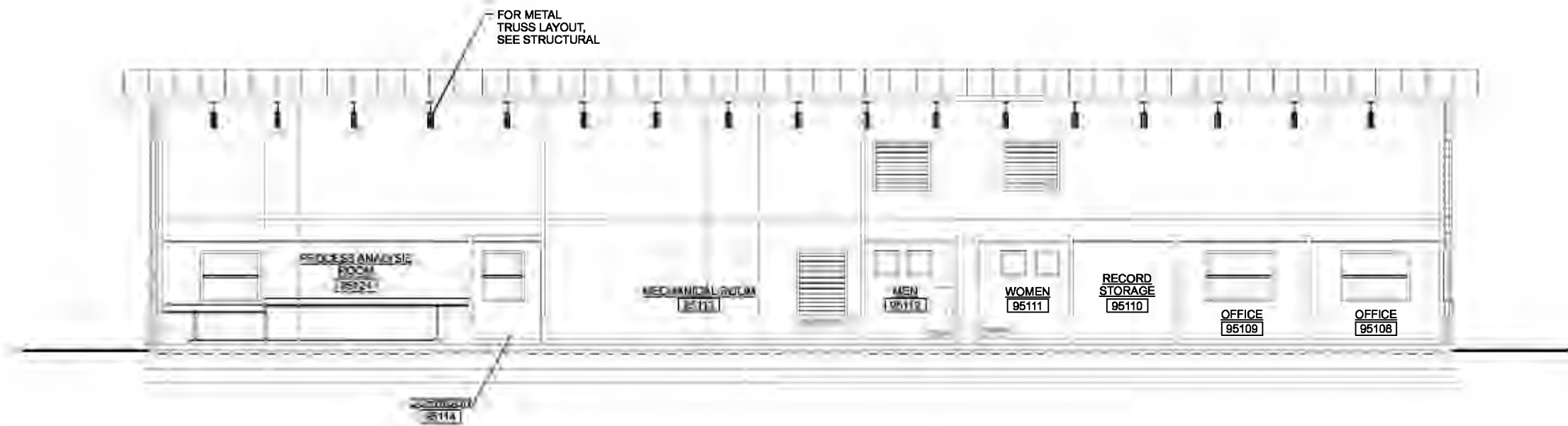
SECTION **E**
3/16"=1'-0" 95-A-140



SECTION **F**
3/16"=1'-0" 95-A-140



SECTION **G**
3/16"=1'-0" 95-A-140



SECTION **H**
3/16"=1'-0" 95-A-140

| | | | | | | | | | |
|------|------------|-----|------|--|-----|-----|----|------|----------|
| DSGN | JE CAVE | NO. | DATE | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | MLR | SJP | BY | APVD | REVISION |
| DR | WB LOVE | | | | | | | | |
| CHK | GB KIRSTEN | | | | | | | | |
| APVD | CW MASSIE | | | | | | | | |
| | | | | | | | | | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

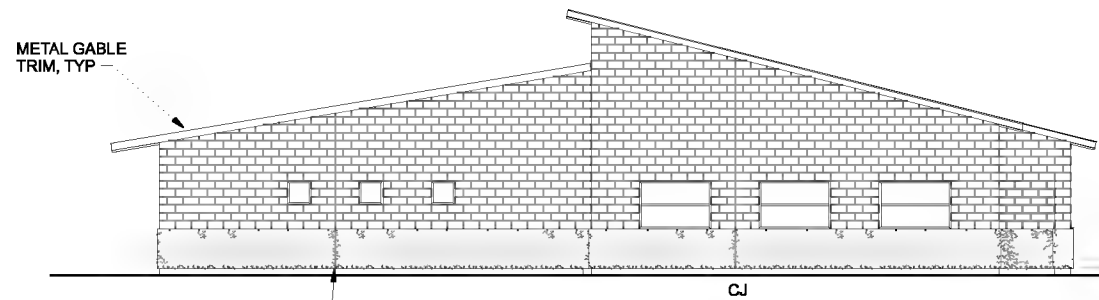


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CONTROL BUILDING
ARCHITECTURAL
SECTIONS

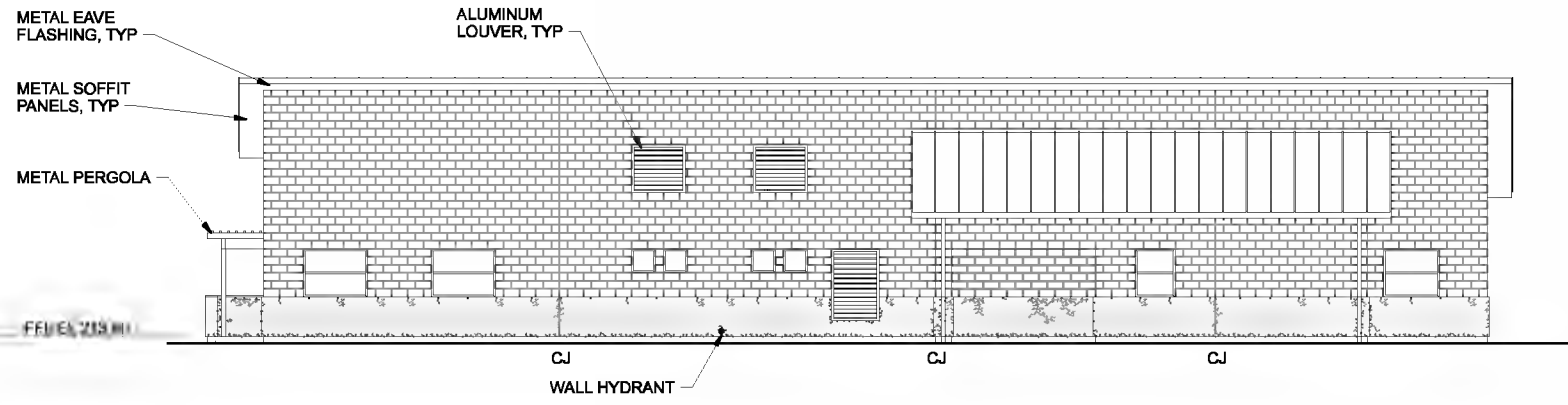
| | |
|-------|-------------|
| SHEET | 479 |
| DWG | 95-A-202 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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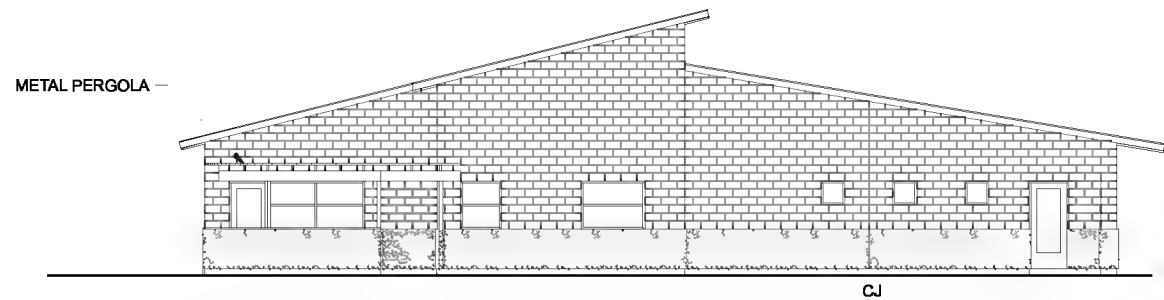


CONTROL JOINT (CJ), TYP
SEE STRUCTURAL DWGS
FOR LOCATIONS.
4031 7251

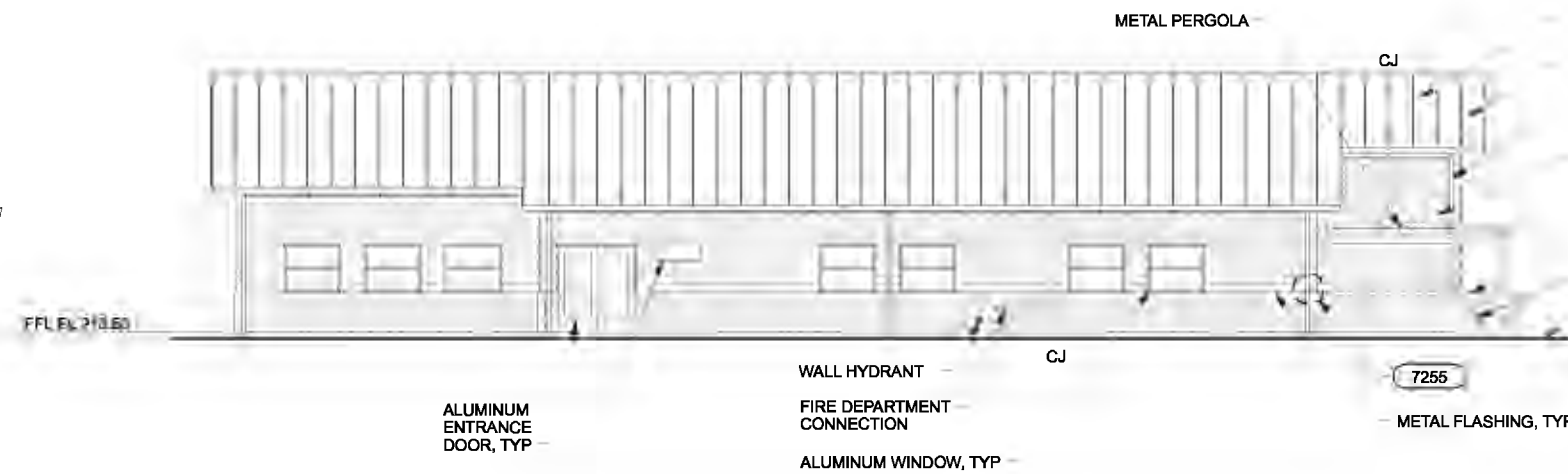
NORTH ELEVATION
1/8"=1'-0"



EAST ELEVATION
1/8"=1'-0"



SOUTH ELEVATION
1/8"=1'-0"



WEST ELEVATION
1/8"=1'-0"

- SHEET METAL ROOFING, TYP
- METAL GUTTER, TYP
- METAL DOWNSPOUT, TYP
- SPLIT-FACE CMU, TYP
- METAL COPING
- EIFS, TYP
- FINISH GRADE, TYP

| | | | | | | | | |
|------|------------|--|-----|----------|----------|----|------|--|
| DSGN | JE CAVE | | | | | | | |
| DR | WB LOVE | | | | | | | |
| CHK | GB KIRSTEN | | | 01/20/10 | | | | |
| APVD | CW MASSIE | | NO. | DATE | REVISION | BY | APVD | |

(FOR LIMITATIONS SEE RECORD
DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

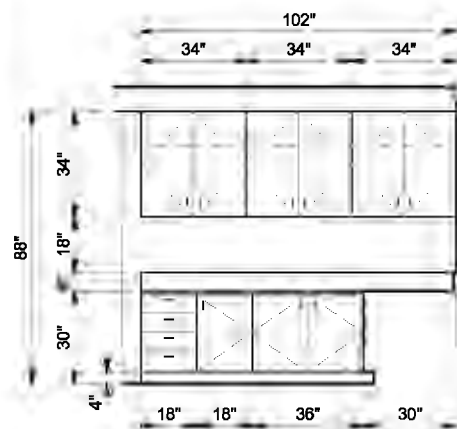


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

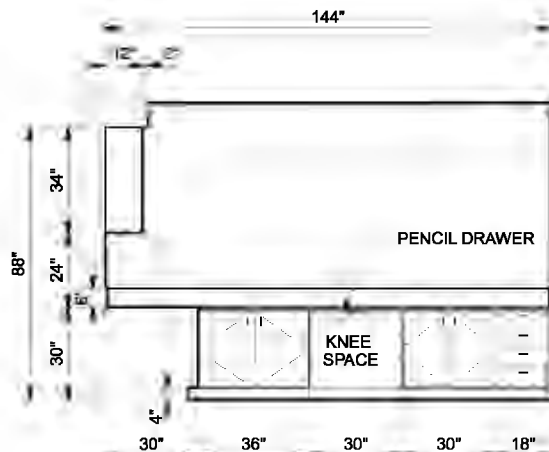
CONTROL BUILDING
ARCHITECTURAL
EXTERIOR ELEVATIONS

| | |
|-------|-------------|
| SHEET | 480 |
| DWG | 95-A-301 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

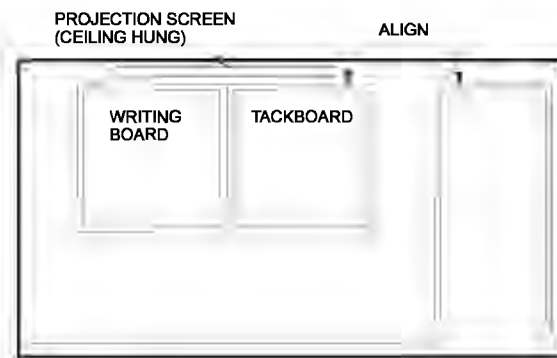
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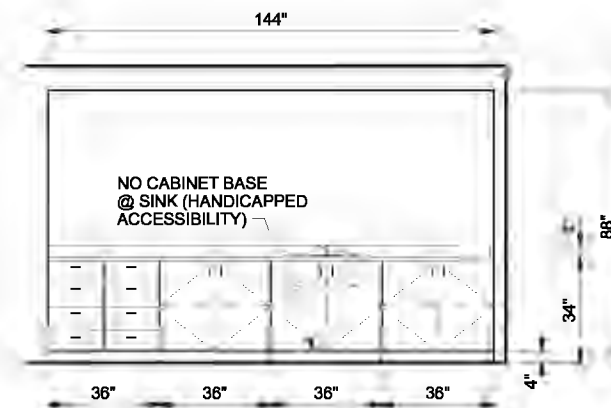
COPY CENTER [95103] ELEVATION 1
3/8"=1'-0" 95-A-140



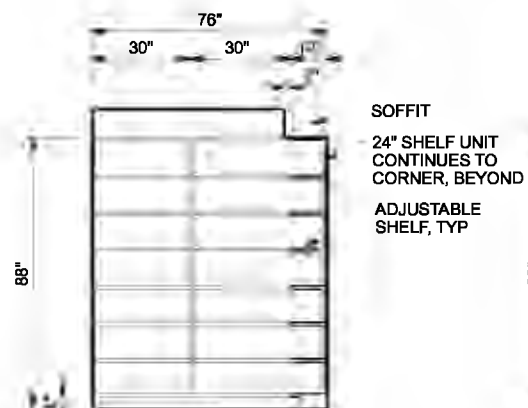
COPY CENTER [95103] ELEVATION 2
3/8"=1'-0" 95-A-140



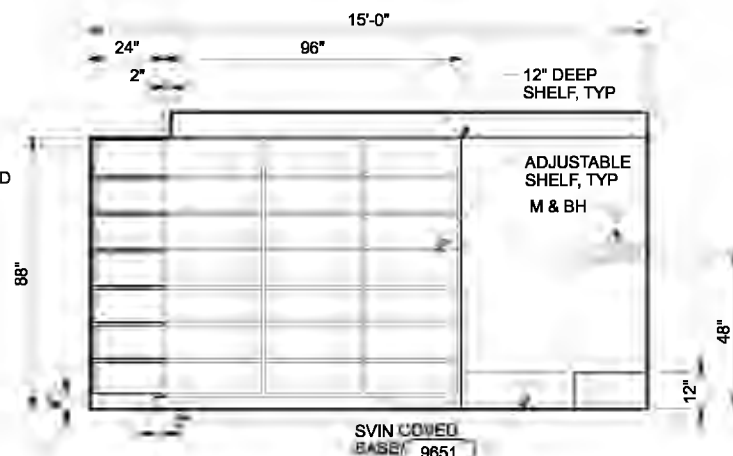
CONFERENCE ROOM [95105] ELEVATION 3
3/8"=1'-0" 95-A-140



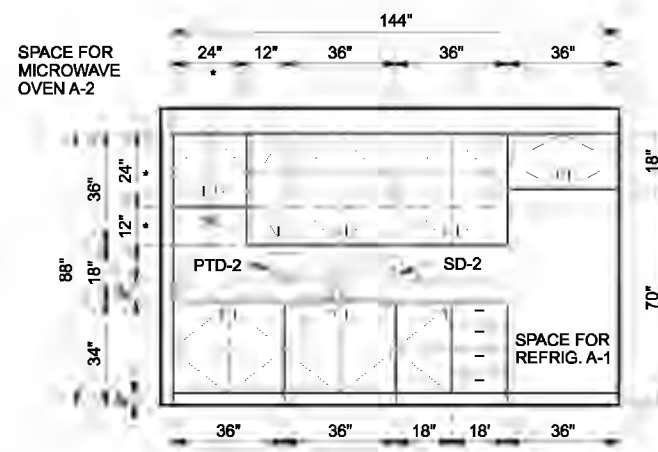
CONFERENCE ROOM [95105] ELEVATION 4
3/8"=1'-0" 95-A-140



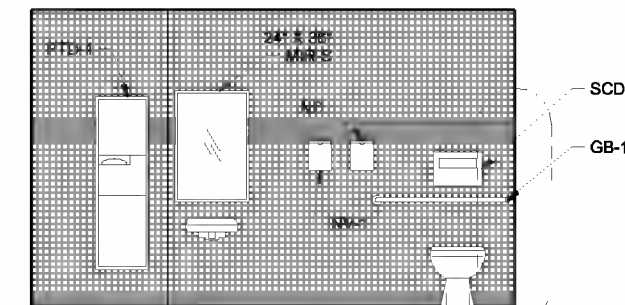
JANITOR [95106] ELEVATION 5
3/8"=1'-0" 95-A-140



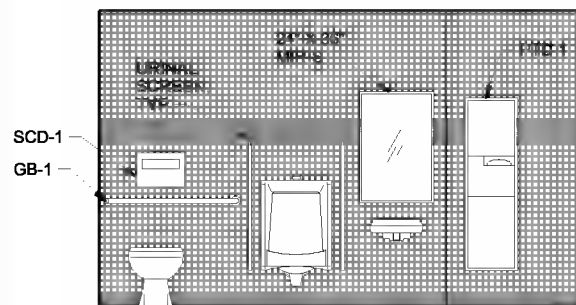
JANITOR [95106] ELEVATION 6
3/8"=1'-0" 95-A-140



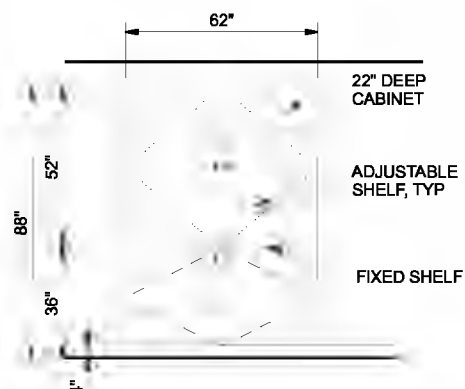
LUNCH ROOM [95107] ELEVATION 7
3/8"=1'-0" 95-A-140
NOTE: * VERIFY DIMENSION WITH MICROWAVE OVEN



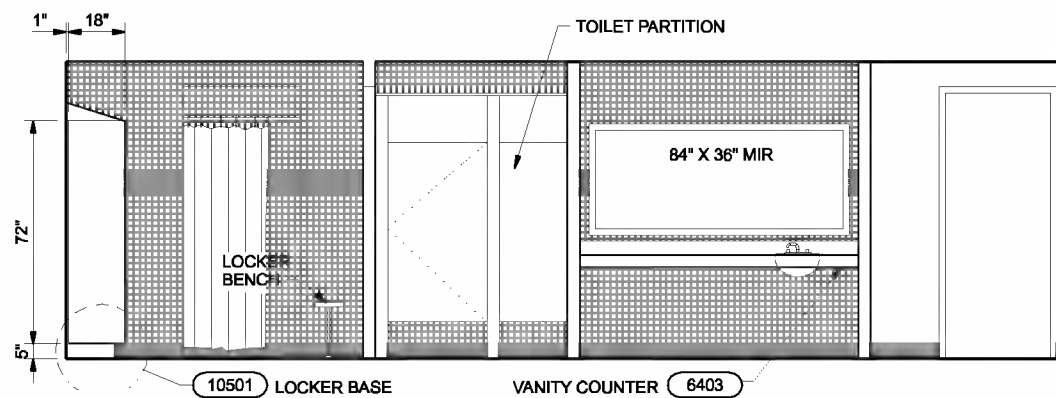
WOMEN [95111] ELEVATION 8
3/8"=1'-0" 95-A-140 95-A-151
WALL TILE PATTERN, TYP 1 95-A-303



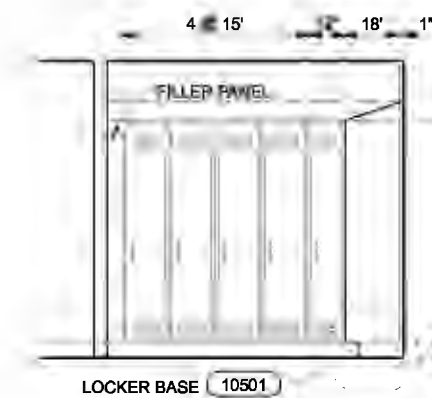
MEN [95112] ELEVATION 9
3/8"=1'-0" 95-A-140 95-A-151



CORRIDOR [95114] ELEVATION 10
3/8"=1'-0" 95-A-140 95-A-151



LOCKER [95116] ELEVATION 11
3/8"=1'-0" 95-A-140 95-A-151



LOCKERS [95117] & [95122] (OPPOSITE) ELEVATION 12
3/8"=1'-0" 95-A-140 95-A-151

| | | | | | | | |
|------|------------|-----|------|----------|----|------|---|
| DSGN | JE CAVE | NO. | DATE | REVISION | BY | APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | WB LOVE | | | | | | |
| CHK | GB KIRSTEN | | | | | | |
| APVD | CW MASSIE | | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

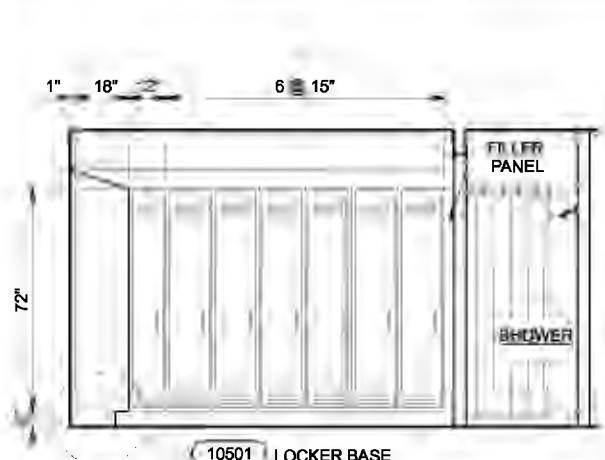


WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

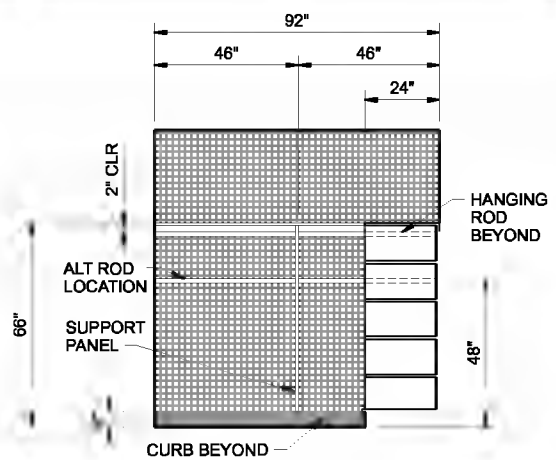
CONTROL BUILDING
ARCHITECTURAL
INTERIOR ELEVATIONS

| | |
|-------|---------------|
| SHEET | 481 |
| DWG | 95-A-302 |
| DATE | MARCH 30 2006 |
| PROJ | 326918 |

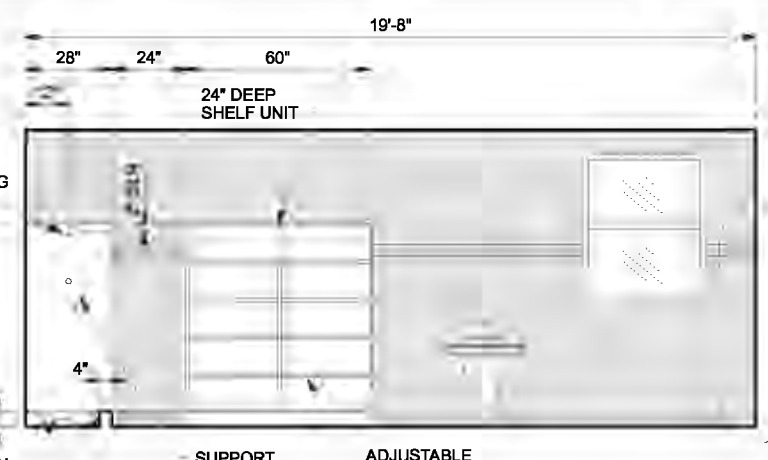
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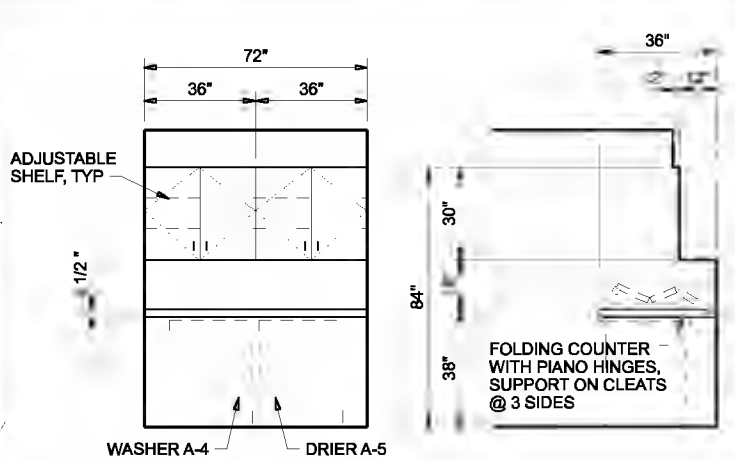
10501 LOCKER BASE



MUD ROOM [95119] ELEVATION 14



MUD ROOM [95119] ELEVATION 15



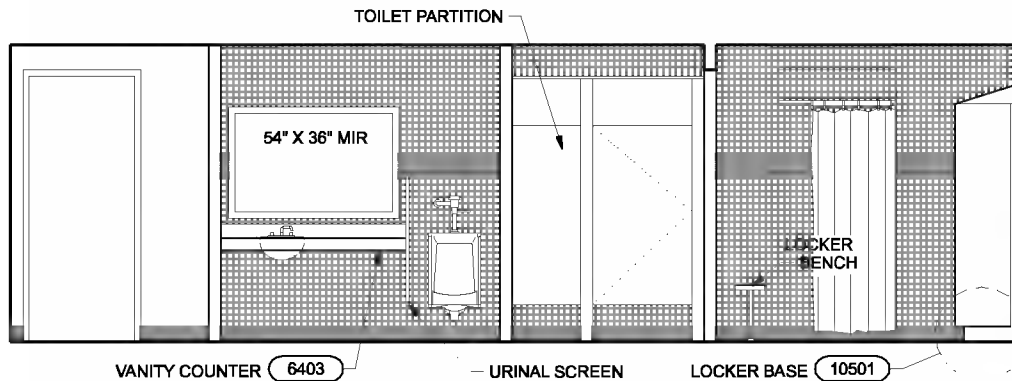
LAUNDRY [95120] ELEVATION 16 & 17

LOCKERS [95117] & [95122] (OPPOSITE) ELEVATION 13
3/8"=1'-0"
95-A-140
95-A-151

MUD ROOM [95119] ELEVATION 14
3/8"=1'-0"
95-A-140
95-A-151

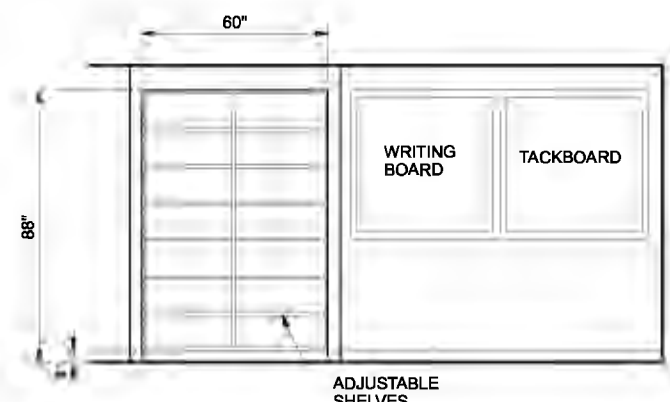
MUD ROOM [95119] ELEVATION 15
3/8"=1'-0"
95-A-140
95-A-151

LAUNDRY [95120] ELEVATION 16 & 17
3/8"=1'-0"
95-A-140
95-A-151



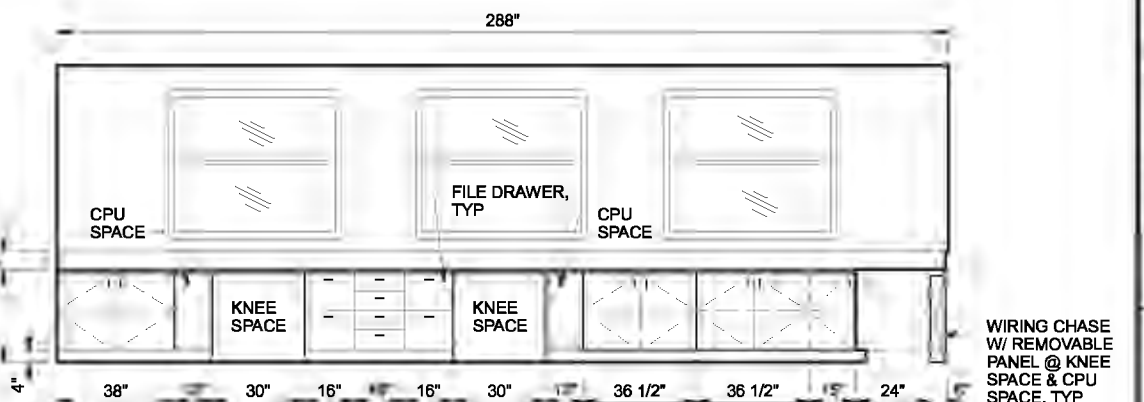
MEN [95121] ELEVATION 18

3/8"=1'-0"
95-A-140
95-A-151



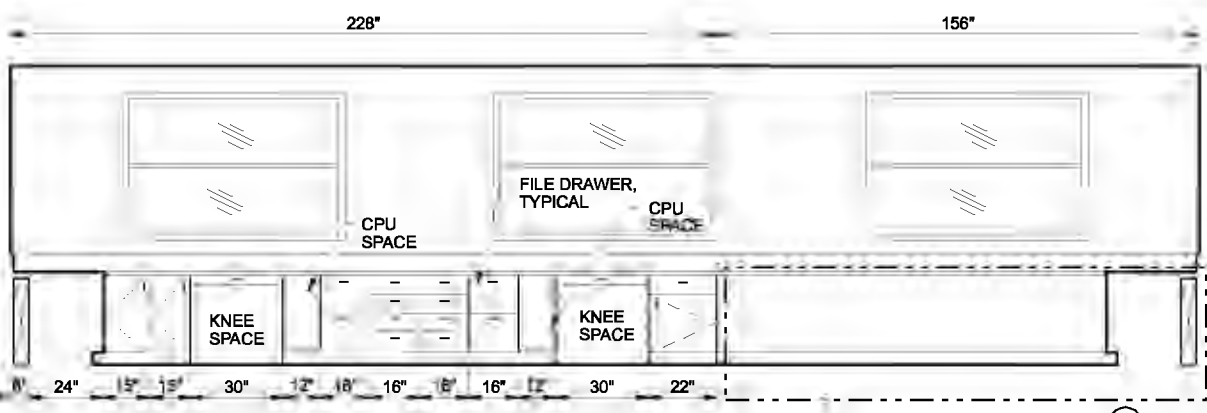
CONTROL ROOM [95125] ELEVATION 19

3/8"=1'-0"
95-A-140



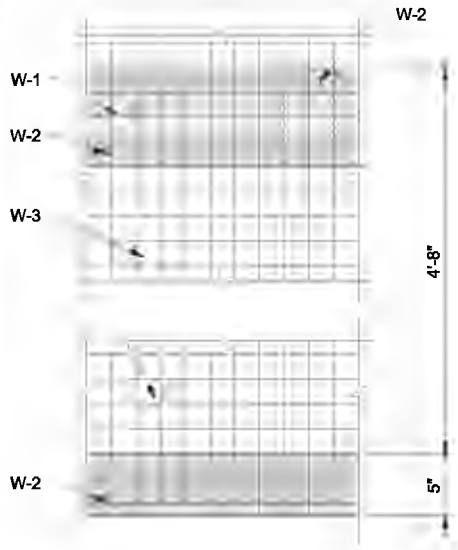
CONTROL ROOM [95125] ELEVATION 20

3/8"=1'-0"
95-A-140



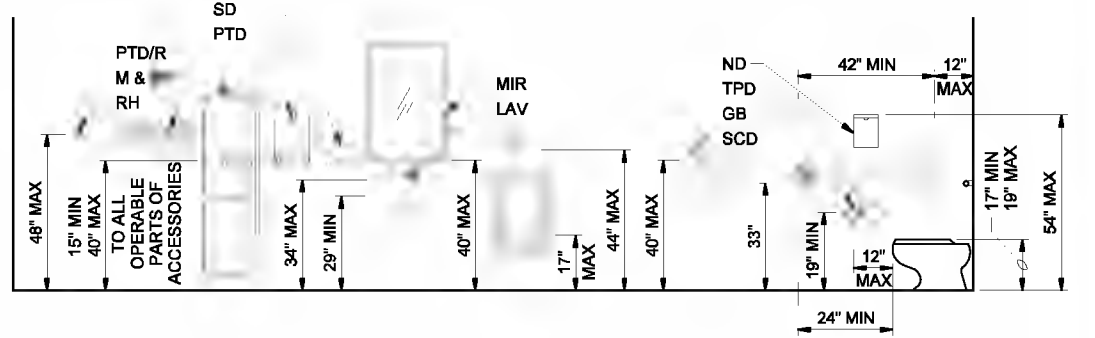
CONTROL ROOM [95125] ELEVATION 21

3/8"=1'-0"
95-A-140



WALL TILE PATTERN 1

NTS
95-A-302

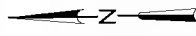


STANDARD ACCESSIBLE FIXTURE MOUNTING LOCATIONS

3/8"=1'-0"

| | | | | | | | | |
|-------------------|----------|------|----------|---|--|--|--|---------------------|
| DSGN JE CAVE | | | | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. | | WASTEWATER SYSTEM IMPROVEMENT PROJECT WWTP-03-01 LINN COUNTY, OREGON | CONTROL BUILDING ARCHITECTURAL INTERIOR ELEVATIONS | SHEET 482 |
| DR WB LOVE | | | | | | | | DWG 95-A-303 |
| CHK GB KIRSTEN | 01/20/10 | | | | | | | DATE MAY 19 2006 |
| APVD CW MASSIE | NO. | DATE | REVISION | BY APVD | | | | PROJ 326918 |

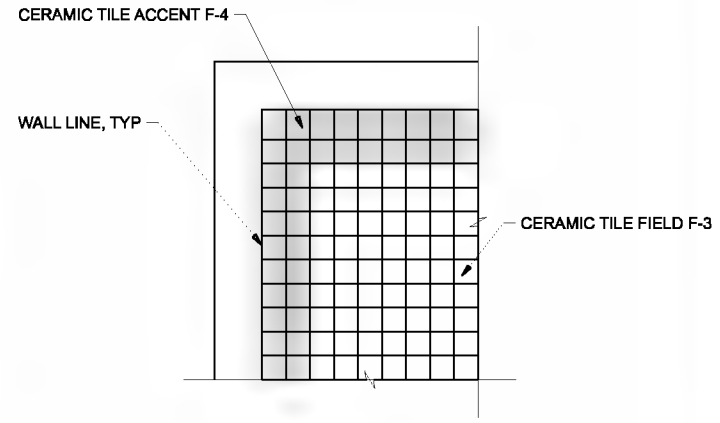
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- NOTES:**
1. FOR ADDITIONAL INFORMATION, SEE INTERIOR FINISH SCHEDULE.
 2. FOR WALL FINISHES, SEE INTERIOR FINISH SCHEDULE AND INTERIOR ELEVATIONS.



CERAMIC TILE
FLOOR PATTERN,
TYP



FLOOR TILE PATTERN 1
NTS

- LEGEND**
- CPT CARPET
 - CT CERAMIC TILE
 - SVIN SHEET VINYL
 - VCT VINYL COMPOSITION TILE

FLOOR FINISH PLAN
3/16"=1'-0"

| | | | | | | | |
|------|------------|--|----------|------|----------|----|------|
| DSGN | JE CAVE | | | | | | |
| DR | WB LOVE | | | | | | |
| CHK | GB KIRSTEN | | 01/20/10 | | | | |
| APVD | CW MASSIE | | NO. | DATE | REVISION | BY | APVD |

(FOR LIMITATIONS SEE RECORD
DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

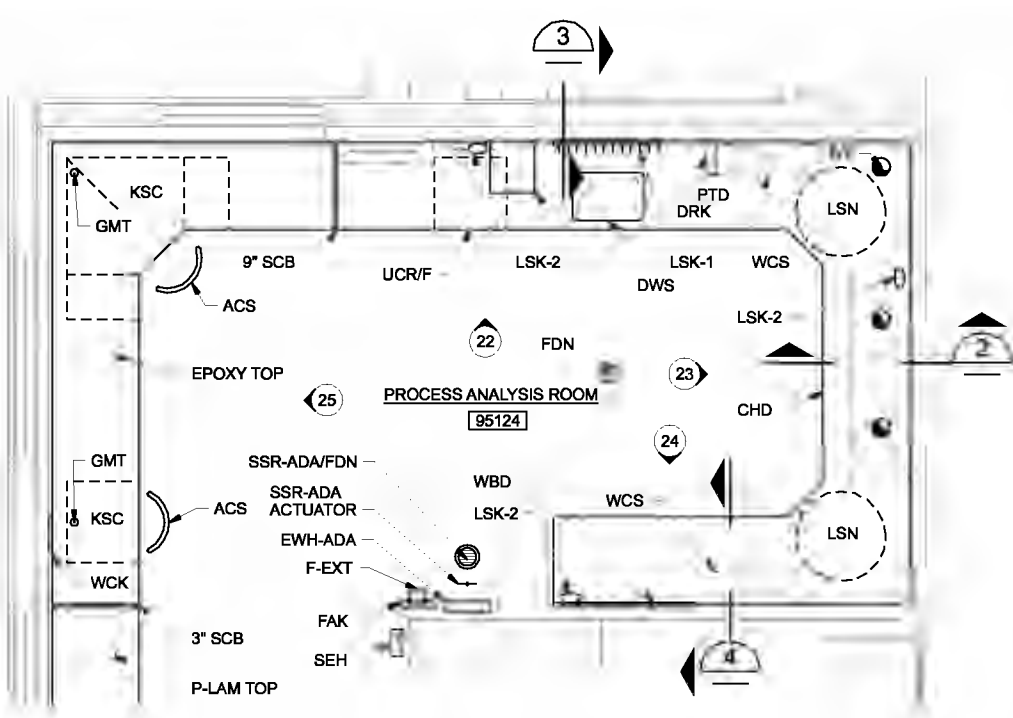


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CONTROL BUILDING
ARCHITECTURAL
FLOOR FINISH PLAN

| | |
|-------|-------------|
| SHEET | 483 |
| DWG | 95-A-304 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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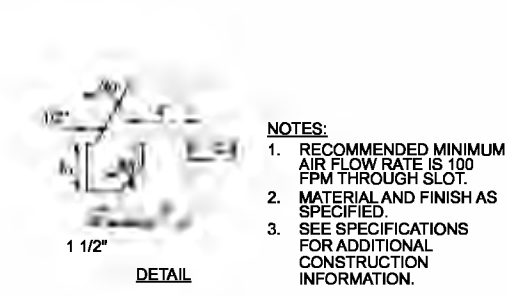
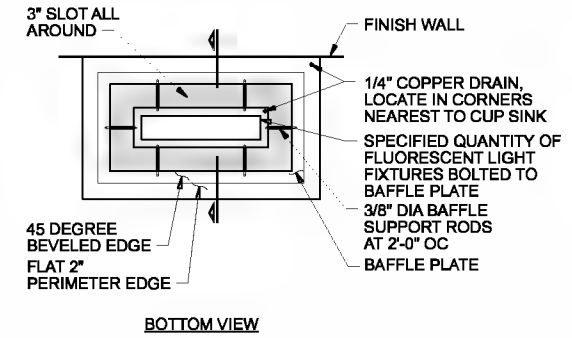
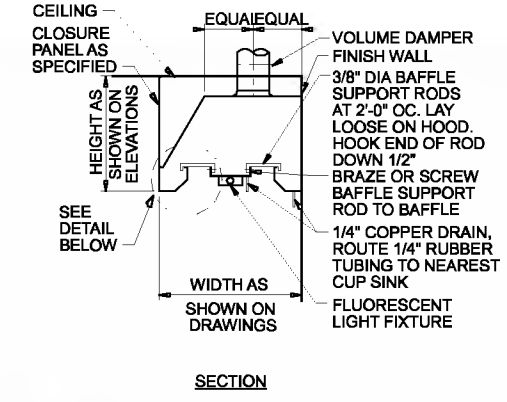
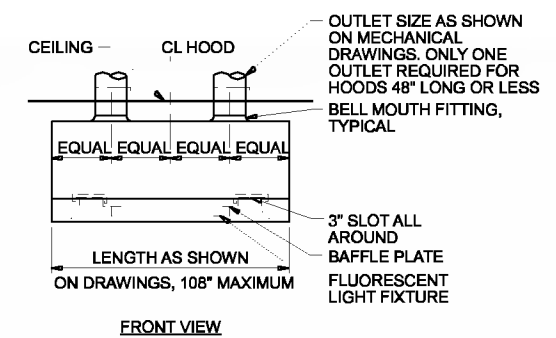


ENLARGED PLAN 1
3/8"=1'-0" 95-A-140

NOTES:
1. FOR INTERIOR ELEVATIONS 22-25 SEE DWG 95-A-306

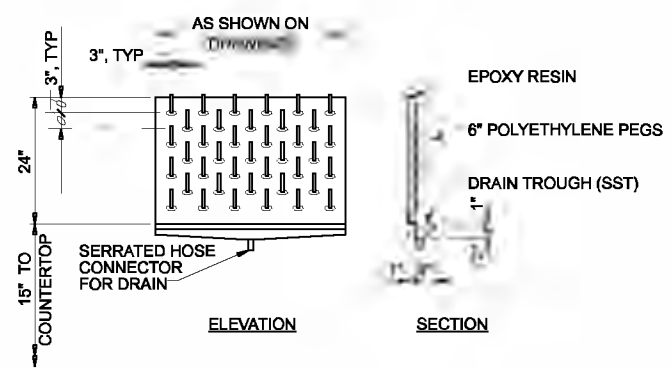
FIXTURE LEGEND

| SYMBOL | DESCRIPTION |
|-------------|--------------------------------|
| PANEL MOUNT | DECK MOUNT |
| [Symbol] | HOT & COLD MIXING FAUCET, LP-1 |
| [Symbol] | COLD WATER FAUCET, LP-2 |
| [Symbol] | SUPPLY COCK, LP-3 (VACUUM) |
| [Symbol] | SUPPLY COCK, LP-4 (AIR) |
| [Symbol] | DWS FEED |
| [Symbol] | MULTI-OUTLET ASSEMBLY, LE-1 |
| [Symbol] | 120V, 20A, GFCI DUPLEX |
| [Symbol] | 120V, 30A |
| [Symbol] | COMPUTER CABLE, CCL |
| [Symbol] | TELEPHONE JACK, TJK |
| [Symbol] | SWITCH (ELECTRICAL), SWH |
| [Symbol] | WALL CLOCK, WCK |
| [Symbol] | SINGLE EPOXY RESIN SINK, LSK-1 |
| [Symbol] | CUP SINK, LSK-2 |

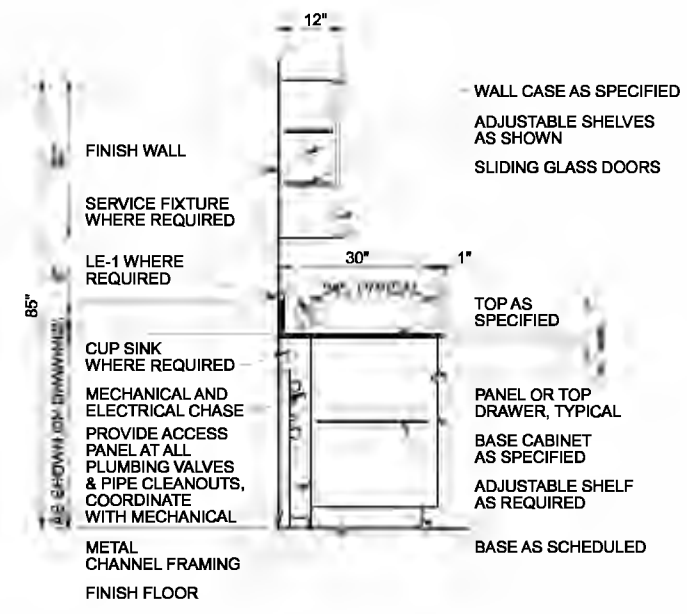


NOTES:
1. RECOMMENDED MINIMUM AIR FLOW RATE IS 100 FPM THROUGH SLOT.
2. MATERIAL AND FINISH AS SPECIFIED.
3. SEE SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION INFORMATION.

CANOPY HOOD 2
NTS



DRAIN RACK 3
NTS



NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION INFORMATION.

CABINET SECTION 4
NTS

| | | | | | | | |
|------|-------------|-----|------|----------|----|------|---|
| DSGN | EA HADFIELD | NO. | DATE | REVISION | BY | APVD | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | CASTEN | | | | | | |
| CHK | JE CAVE | | | | | | |
| APVD | CW MASSIE | | | | | | |
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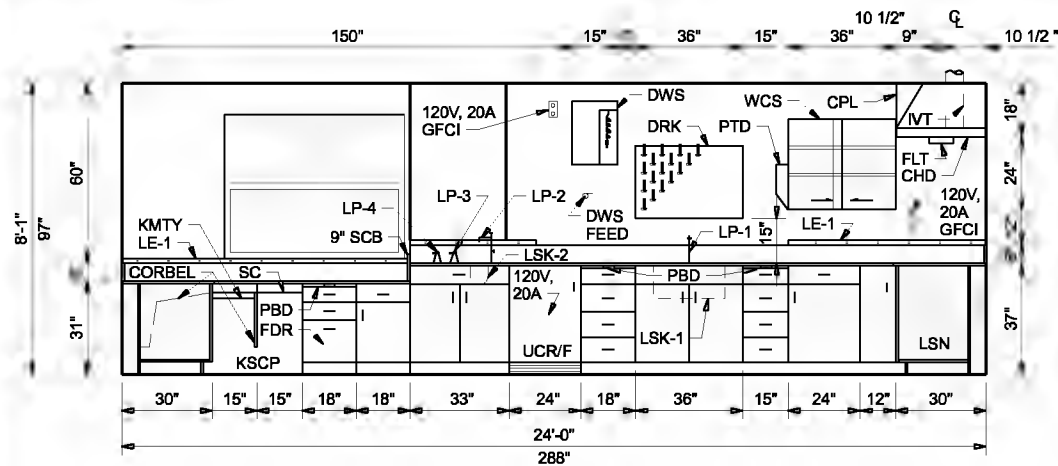


WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

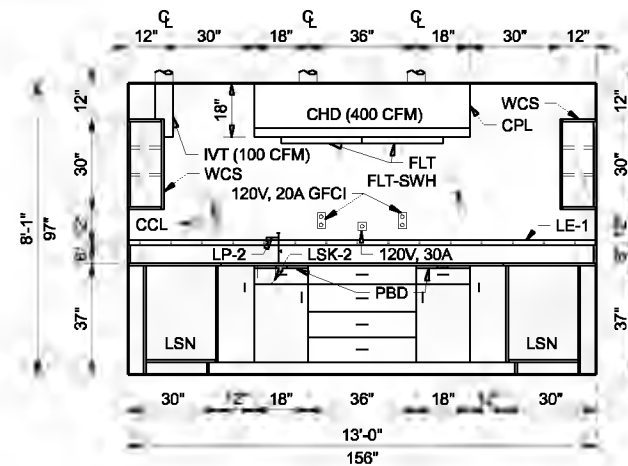
CONTROL BUILDING
ARCHITECTURAL
ENLARGED PROCESS ANALYSIS ROOM PLAN
AND DETAILS

| | |
|-------|--------------|
| SHEET | 484 |
| DWG | 95-A-305 |
| DATE | MAY 19, 2006 |
| PROJ | 326918 |

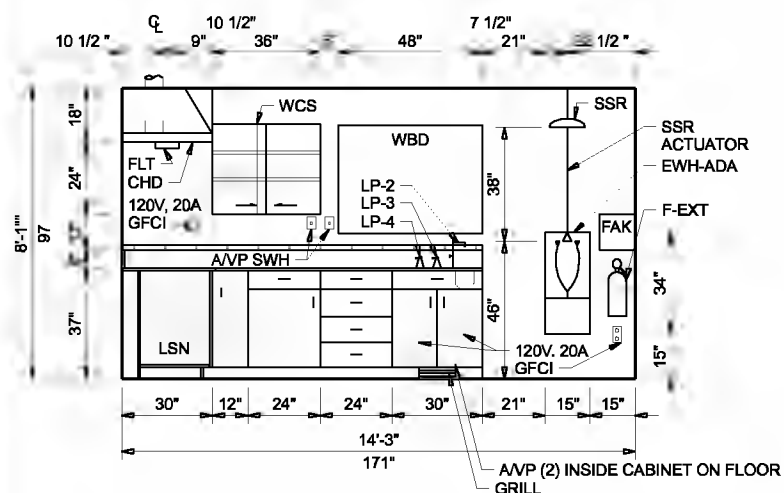
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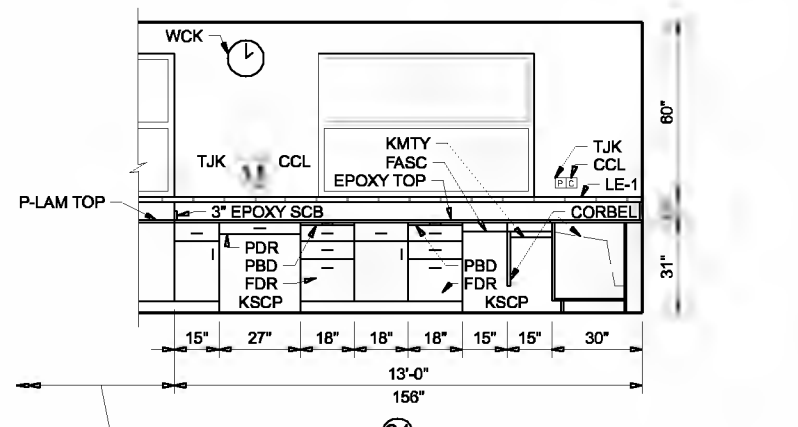
PROCESS ANALYSIS ROOM 95124 ELEVATION 22
3/8"=1'-0" 95-A-305



PROCESS ANALYSIS ROOM 95124 ELEVATION 23
3/8"=1'-0" 95-A-305



PROCESS ANALYSIS ROOM 95124 ELEVATION 24
3/8"=1'-0" 95-A-305



PROCESS ANALYSIS ROOM 95124 ELEVATION 25
3/8"=1'-0" 95-A-305

| PROCESS ANALYSIS ROOM ABBREVIATIONS * | |
|--|--|
| ITEM | DESCRIPTION |
| AVP | AIR/VACUUM PUMP |
| ACS | ADJUSTABLE CHAIR/STOOL, DESK HEIGHT |
| ADA | AMERICANS WITH DISABILITIES ACT ACCESSIBLE FURNISHINGS |
| CCL | COMPUTER CABLE |
| CFM | CUBIC FEET PER MINUTE |
| CHD | CANOPY HOOD |
| CPL | CLOSURE PANEL FOR CANOPY HOOD |
| DRK | DRAIN RACK |
| DWS | DEIONIZED WATER SYSTEM |
| EPOXY | EPOXY RESIN (COUNTER TOP) |
| EPWH-ADA | EYEWASH, WALL MOUNT, ADA ACCESSIBLE |
| FAK | FIRST AID KIT |
| FASC | FASCIA |
| FDN | FLOOR DRAIN |
| FDR | FILE DRAWER |
| F-EXT | FIRE EXTINGUISHER |
| FLT | FLUORESCENT LIGHT |
| FPL | FILLER PANEL |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| GMT | GROMMET |
| IVT | INSTRUMENT VENT |
| KMTY | KEYBOARD/MOUSE TRAY, RETRACTABLE (IN KSCP) |
| KSCP | KNEE SPACE, BACK PANEL |
| LE-1 | MULTI-OUTLET ASSEMBLY (PLUG MOLD), GFCI AT PANEL BOARD |
| LP-1 | HOT/COLD WATER (MIXING FAUCET) (DECK) |
| LP-2 | COLD WATER (SINGLE DECK) |
| LP-3 | VACUUM (SINGLE DECK) |
| LP-4 | AIR (SINGLE DECK) |
| LSK-1 | SINGLE EPOXY RESIN SINK |
| LSK-2 | CUP SINK |
| P-LAM | PLASTIC LAMINATE (COUNTER TOP) |
| PBD | PULL BOARD |
| PDR | PENCIL DRAWER (KSCP) |
| PTD | PAPER TOWEL DISPENSER |
| RBS | RUBBER BASE |
| SCB | SPLASH CURB |
| SEH | SAFETY EYEWEAR HOLDER |
| SSR-ADA | SAFETY SHOWER (ADA ACCESSIBLE) |
| SSR-ADA/FDN | SAFETY SHOWER OVER FLOOR DRAIN |
| SWH | SWITCH (ELECTRICAL) |
| TJK | TELEPHONE JACK |
| UCR/F | UNDER COUNTER REFRIGERATOR/FREEZER, NO FLAMMABLES |
| WBD | WHITE BOARD |
| WCK | WALL CLOCK |
| WCS | WALL CASE (SLIDING GLASS DOORS) |
| * ABBREVIATIONS FOR PLANS, SPECIFICATIONS AND OTHER SCHEDULES. | |

| | | | | | | |
|------|-------------|-----|------|----------|----|------|
| DSGN | EA HADFIELD | NO. | DATE | REVISION | BY | APVD |
| DR | CASTEEN | | | | | |
| CHK | GB KIRSTEN | | | | | |
| APVD | CW MASSIE | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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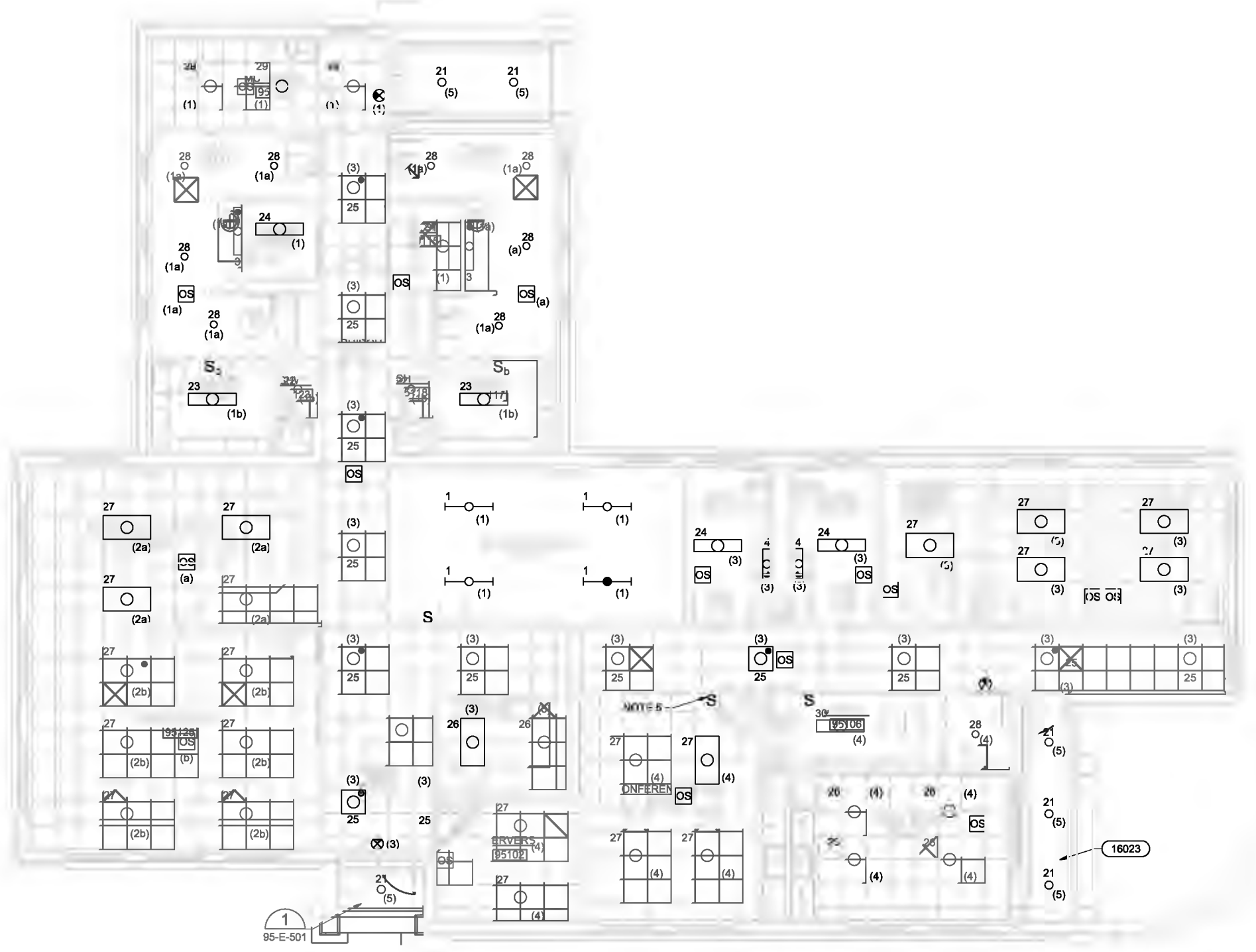
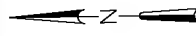


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CONTROL BUILDING
ARCHITECTURAL
PROCESS ANALYSIS ROOM
INTERIOR ELEVATIONS

| | |
|-------|-------------|
| SHEET | 485 |
| DWG | 95-A-306 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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LIGHTING PLAN
3/16"=1'-0"

NOTES:

1. PROVIDE UNSWITCHED POWER TO LUMINAIRES WITH EMERGENCY BALLASTS.
2. FOR LUMINAIRE SCHEDULE AND NOTES, SEE DWG 91-E-531.
3. HOMERUN ALL CIRCUITS ON THIS SHEET TO 95LP01.
4. REFER DWG 01-G-25 FOR GENERAL NOTES FOR LIGHTING SYSTEM.
5. MANUAL OVERRIDE SWITCH FOR OCCUPANCY SENSOR.

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| | | | | | |
|------|------------|----------|------|----------|-----|
| DSGN | J ZAHIR | | | | |
| DR | G LOVE | | | | |
| CHK | GB KIRSTEN | 01/23/10 | | GRW | KLM |
| APVD | CM MASSIE | NO. | DATE | REVISION | BY |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

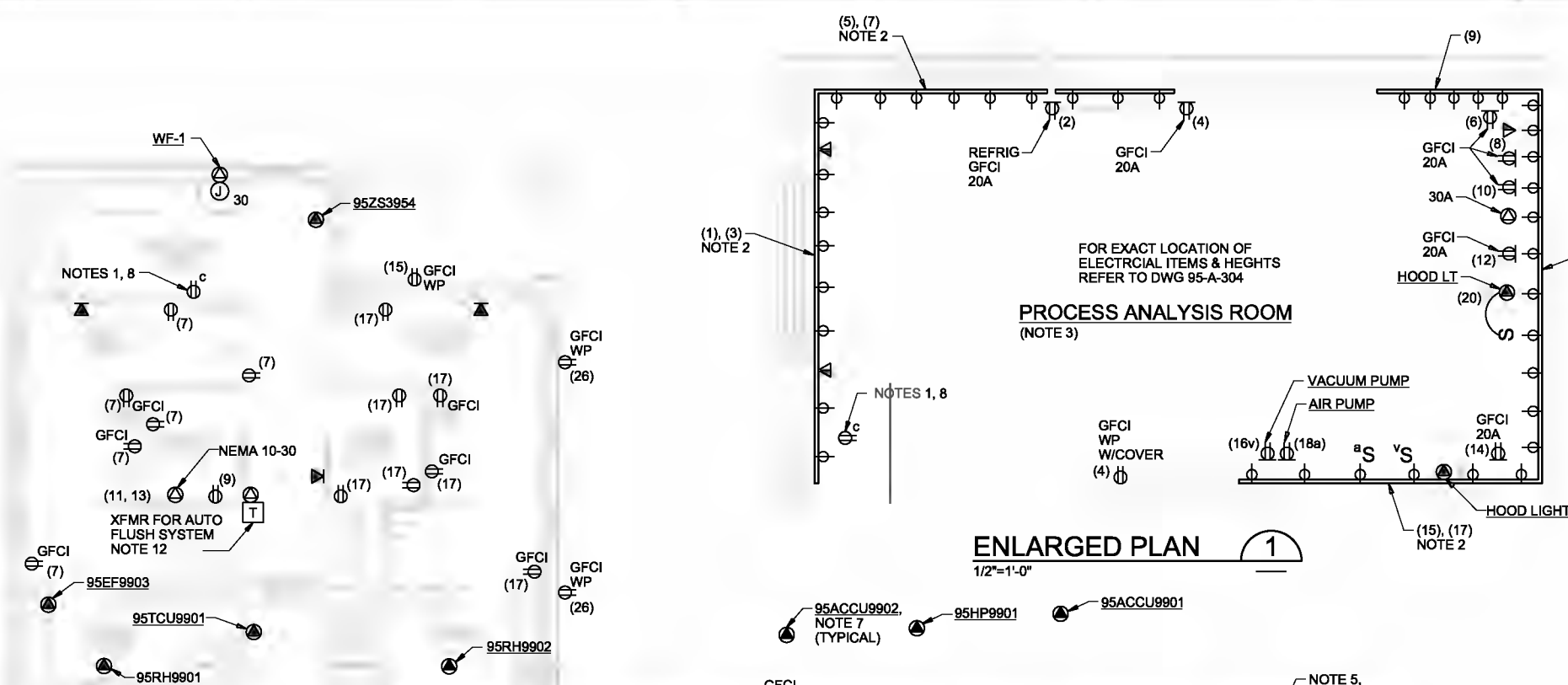
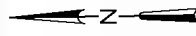
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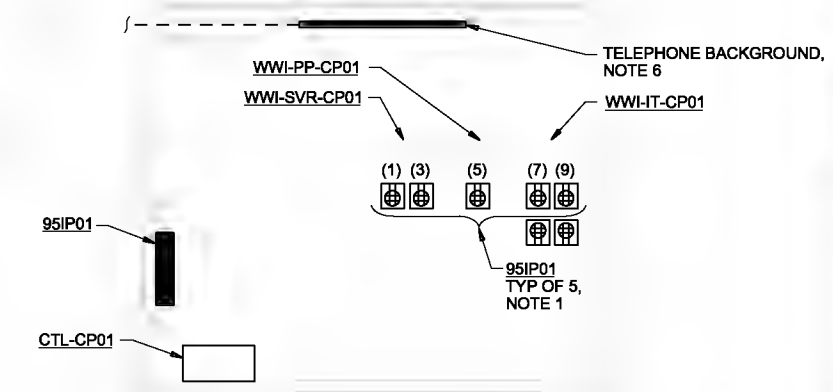
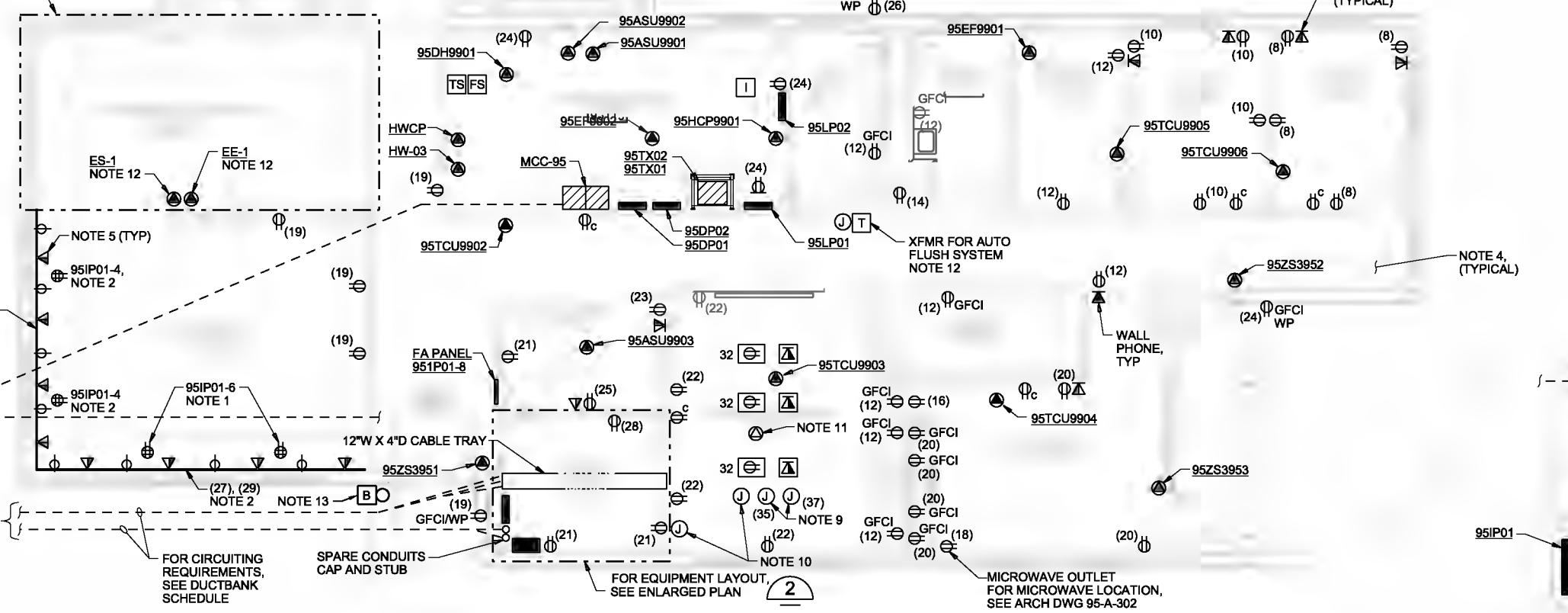
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CONTROL BUILDING
ELECTRICAL
LIGHTING PLAN

| | |
|-------|-------------|
| SHEET | 486 |
| DWG | 95-E-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |



- NOTES:**
1. PROVIDE RED COLOR RECEPTACLES FOR ALL RECEPTACLES CONNECTED TO UPS, LABEL IT "UPS".
 2. CONNECT ONE HALF RECEPTACLES ON EACH CIRCUIT ON EACH STRAIGHT LENGTH OF PLUG MOLD.
 3. ALL CIRCUIT NUMBERS REFERED IN PROCESS ANALYSIS ROOM REFERS TO PANEL 95LP02.
 4. ALL CIRCUIT NUMBERS REFERED IN MAIN BUILDING REFERS TO 95LP01 UNLESS OTHERWISE NOTED.
 5. COMBINATION DATA/TELEPHONE OUTLET: PROVIDE A FOUR PORT OUTLET BOX, FOUR RJ45 PORTS AND ONE RJ11 PORT. ROUTE 2-1" CONDUITS FROM EACH OUTLET TO 12" ABOVE RECESSED CEILING. EXTEND 4-CAT5 5E CABLES IN CEILING SPACE TO SERVER ROOM CABLE TRAY. TERMINATE CABLES AT IC-CP01
 6. PROVIDE 4'X4' PLWOOD BACKBOARD FOR TELEPHONE. INSTALL CONDUIT FROM HANDHOLE HH-LV-8 AND STUB 12" AFF AT PLYWOOD BACKBOARD.
 7. FOR WIRING REQUIREMENTS REFER TO MECHANICAL AND PLUMBING EQUIPMENT CONNECTION SCHEDULE ON SHEET 95-E-501.
 8. CONNECT CLOCK RECEPTACLES (TYP OF 7) ON CIRCUIT 95IP01-10, MOUNT 7'-0" AFF, NOTE 1.
 9. TERMINATE CIRCUITS IN J-BOXES ABOVE CEILING AT PROJECT LIFT.
 10. PROVIDE 1"Ø EMPTY CONDUIT WITH PULLSTRING BETWEEN CEILING MOUNTED J-BOX AND WALL MOUNTED STANDARD 2X4 BOX. BOX ON WALL IS FOR SWITCH PROVIDED WITH PROJECT LIFT.
 11. PROVIDE 3 RCA CONNECTIONS AND 1 CAT 5 CONNECTOR FLUSH IN THE FLOOR. INSTALL [2"Ø, 3 RCA CABLES] AND [1"Ø, CAT 5 CABLE] TO THE PROJECTOR LIFT IN THE CEILING. PROVIDE 20 FEET OF SLACK CABLE IN THE CEILING FOR TERMINATION WHEN THE PROJECTOR LIFT IS DOWN. COORDINATE REQUIREMENTS WITH THE PROJECTOR AND PROJECTOR LIFT BEING INSTALLED.
 12. SEE DRAWING 95-E-501 FOR CONTROL DETAILS.
 13. POWER FROM 95LP02 WITH [3/4"Ø, 2#12, 1#12G]



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| | | | | | | |
|--------|----------|-----|----------|----------|-----|------|
| DESIGN | ZAHIR | NO. | DATE | REVISION | BY | APVD |
| DR | GILLOVE | | | | | |
| CHK | GRUBSTEN | | 01/23/10 | | GRW | KLM |
| APVD | MASSIE | | | | | |

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CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

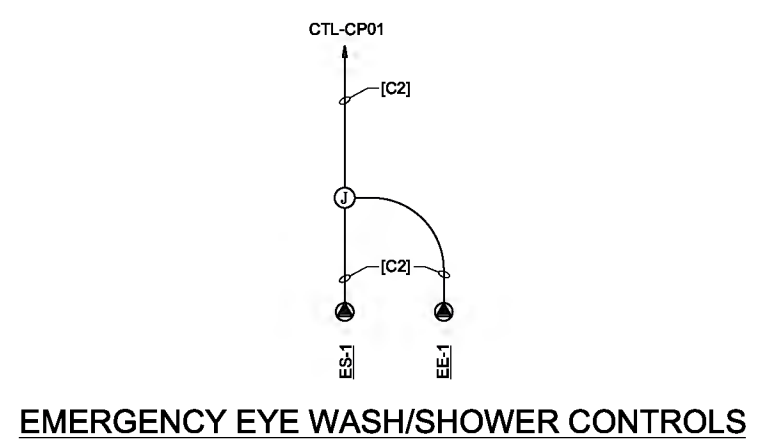
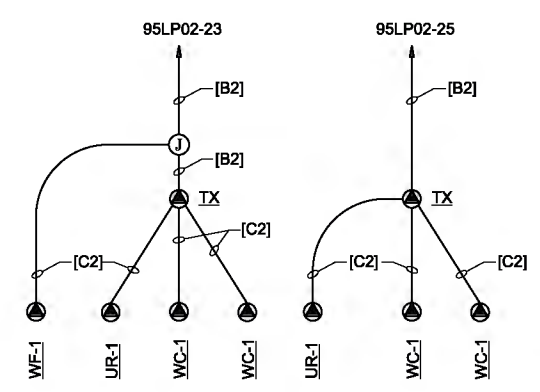
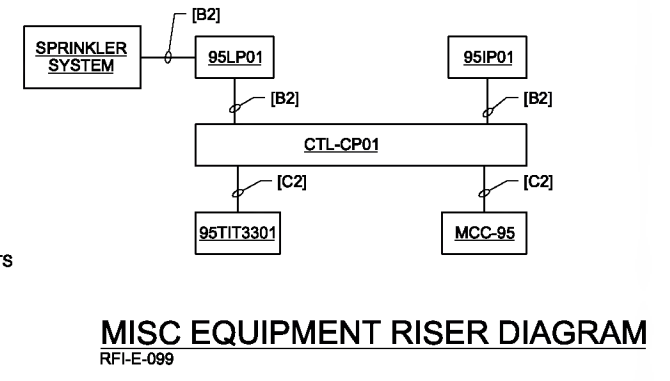
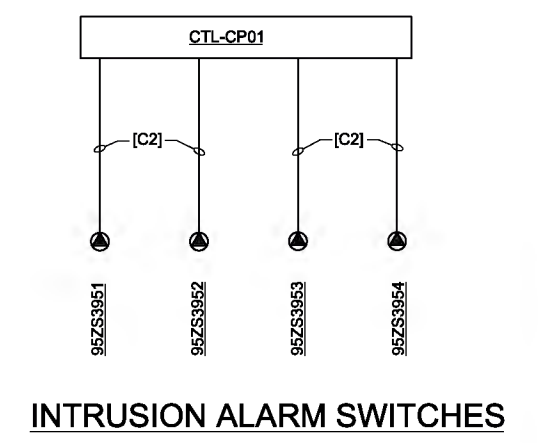
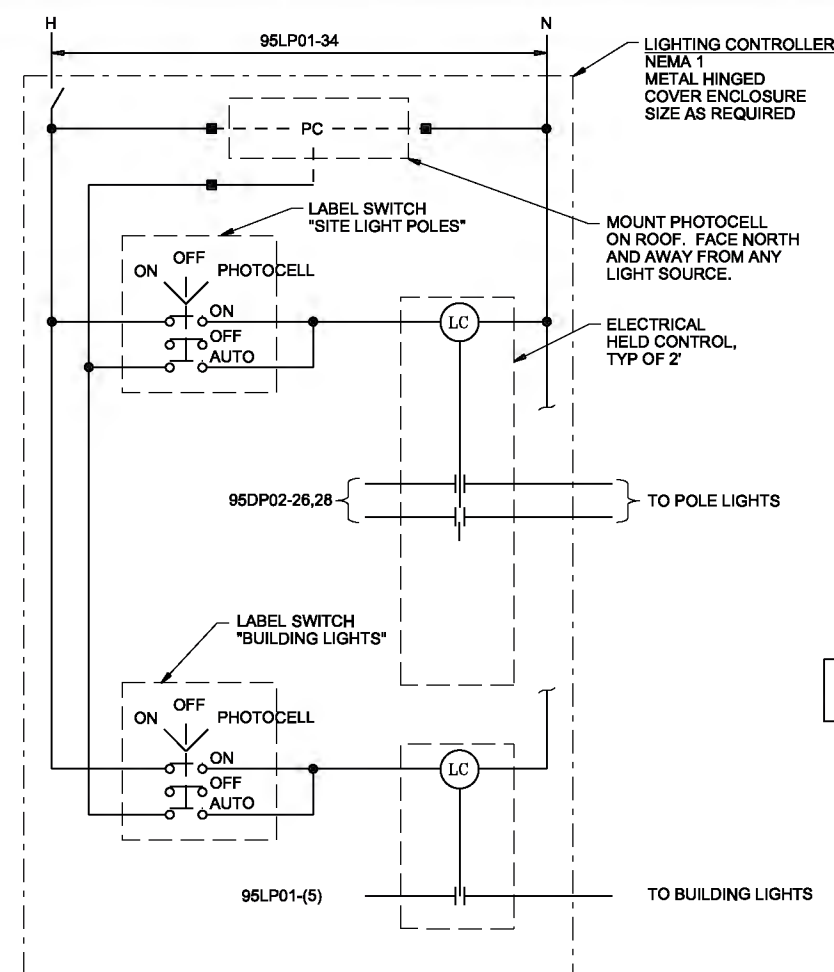
CONTROL BUILDING
 ELECTRICAL
 POWER AND COMMUNICATION PLAN

| | |
|-------|-------------|
| SHEET | 487 |
| DWG | 95-E-145 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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| MECHANICAL & PLUMBING EQUIPMENT CONNECTION SCHEDULE | | | | | | | | | | | | | |
|---|--|-----------------|-----|-------|-----|-------|----|------|------|-----------------------|--------|------------|------------|
| EQUIP TAGS | DESCRIPTION | LOCATION | HP | KW | FLA | VOLTS | PH | MCA | MOCP | FEEDER SOURCE/CIRCUIT | FEEDER | DISCONNECT | REMARKS |
| 95ASU9901 | INDOOR AIR HANDLER | Mechanical Room | 5 | - | - | 480 | 3 | 10 | 15 | MCC95-1a | [B3] | NOTE 6 | NOTES 6, 7 |
| 95HP9901 | SPLIT SYSTEM HEAT PUMP | Outdoor | - | - | - | 480 | 3 | 33 | 45 | 95DP01-2,4,6 | [B28] | NOTE 2 | NOTE 3 |
| 95ASU9902 | INDOOR AIR HANDLER | Mechanical Room | 2 | - | - | 480 | 3 | 4 | 15 | MCC95-1b | [B3] | NOTE 6 | NOTE 6 |
| 95ACCU9901 | SPLIT SYSTEM CONDENSING UNIT | Outdoor | - | - | - | 480 | 3 | 24 | 30 | 95DP01-8,10,12 | [B16] | NOTE 2 | NOTE 3 |
| 95DH9901 | ELECTRIC DUCT HEATER | Mechanical Room | - | 44 | - | 480 | 3 | 66.2 | 70 | 95DP01-7,9,11 | [B33] | NOTE 5 | NOTE 5 |
| 95ASU9903 | INDOOR SPLIT-SYSTEM UNIT | Servers | - | - | 3 | 480 | 3 | 4 | 15 | 95DP01-13,15,17 | [B3] | NOTE 1 | NOTE 3 |
| 95ACCU9902 | OUTDOOR SPLIT-SYSTEM UNIT | Outdoor | - | - | 10 | 480 | 3 | 11 | 15 | 95DP01-14,16,18 | [B3] | NOTE 1 | NOTE 3 |
| 95EF9901 | CENTRIFUGAL IN-LINE CABINET FAN | Record/Storage | - | - | 1.5 | 120 | - | 1.9 | 15 | 95LP01-38 | [B2] | NOTE 1 | NOTE 4 |
| 95EF9902 | ROUND CENTRIFUGAL IN-LINE FAN | Mechanical Room | 1/2 | - | - | 480 | 3 | 1.4 | 15 | MCC95-1c | [B3] | NOTE 1 | NOTE 4 |
| 95EF9903 | CENTRIFUGAL IN-LINE CABINET FAN | Mens Lockers | - | - | 4.3 | 120 | - | 5.4 | 15 | 95LP01-38 | [B2] | NOTE 1 | NOTE 4 |
| 95RH9901 | RADIANT CEILING HEATING PANEL | Womens Lockers | - | 0.375 | - | 120 | - | 3.9 | 15 | 95LP01-40 | [B2] | NOTE 2 | |
| 95RH9902 | RADIANT CEILING HEATING PANEL | Mens Lockers | - | 0.375 | - | 120 | - | 3.9 | 15 | 95LP01-40 | [B2] | NOTE 2 | |
| 95TCU9901 | TERMINAL CONTROL UNIT WITH ELECTRIC HEATER | Corridor 95114 | - | 11 | - | 480 | 3 | 16.5 | 20 | 95DP02-1,3,5 | [B3] | NOTE 5 | NOTE 5 |
| 95TCU9902 | TERMINAL CONTROL UNIT WITH ELECTRIC HEATER | Corridor 95104 | - | 6.5 | - | 480 | 3 | 9.8 | 15 | 95DP02-7,9,11 | [B3] | NOTE 5 | NOTE 5 |
| 95TCU9903 | TERMINAL CONTROL UNIT WITH ELECTRIC HEATER | Conference Room | - | 5.5 | - | 480 | 3 | 8.3 | 15 | 95DP02-13,15,17 | [B3] | NOTE 5 | NOTE 5 |
| 95TCU9904 | TERMINAL CONTROL UNIT WITH ELECTRIC HEATER | Lunch Room | - | 5 | - | 480 | 3 | 7.5 | 15 | 95DP02-2,4,6 | [B3] | NOTE 5 | NOTE 5 |
| 95TCU9905 | TERMINAL CONTROL UNIT WITH ELECTRIC HEATER | Record/Storage | - | 2 | - | 480 | 3 | 3 | 15 | 95DP02-8,10,12 | [B3] | NOTE 5 | NOTE 5 |
| 95TCU9906 | TERMINAL CONTROL UNIT WITH ELECTRIC HEATER | Corridor 95104 | - | 2 | - | 480 | 3 | 3 | 15 | 95DP02-14,16,18 | [B3] | NOTE 5 | NOTE 5 |
| 95HCP9901 | HVAC CONTROL PANEL | Mechanical Room | - | 0.25 | - | 120 | - | - | 15 | 95LP01-34 | [B2] | | |
| HW-03 | HOT WATER HEATER | Mechanical Room | - | 18 | - | 480 | 3 | 27 | 30 | 95DP01-1,3,5 | [B16] | | |
| HWCP | HOT WATER CIRCULATION PUMP | Mechanical Room | - | 0.127 | - | 120 | - | - | 15 | 95LP01-42 | [B2] | | |

- NOTES**
- Disconnect provided and installed under Division 15.
 - Disconnect provided and installed under Division 16. Minimum size of disconnect to be equal to or greater than MOCP.
 - Starter provided and installed under Division 15.
 - Starter provided and installed under Division 15.
 - Contactor and disconnect switch provided and installed under Division 15.
 - Combination starter and disconnect provided and installed under Division 16.
 - Duct smoke detector provided under Division 15, wiring and connection by Division 16.
- GENERAL NOTES**
- Unless otherwise noted all electrical items and power wiring is by Division 16.
 - Equipment location are shown on plans.
 - For exact location of equipment, see mechanical and plumbing drawings.
 - For feeder schedule, see dwg 01-G-25
 - All breakers for motorized equipment in the panelboards are to be 'HACR' rated.
 - All circuits shown shall be provided from source to equipment via motor starter and disconnect switch.



CONTROL DETAILS 2
NTS 95-E-145

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|------|-----------|----------|------|----------|----|------|--|--|--|--|--|--|--|
| DSGN | J ZAHIR | | | | | | | | | | | | |
| DR | GJ LOVE | | | | | | | | | | | | |
| CHK | JB MAURIS | 01/23/10 | | | | | | | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | | | | | | | |

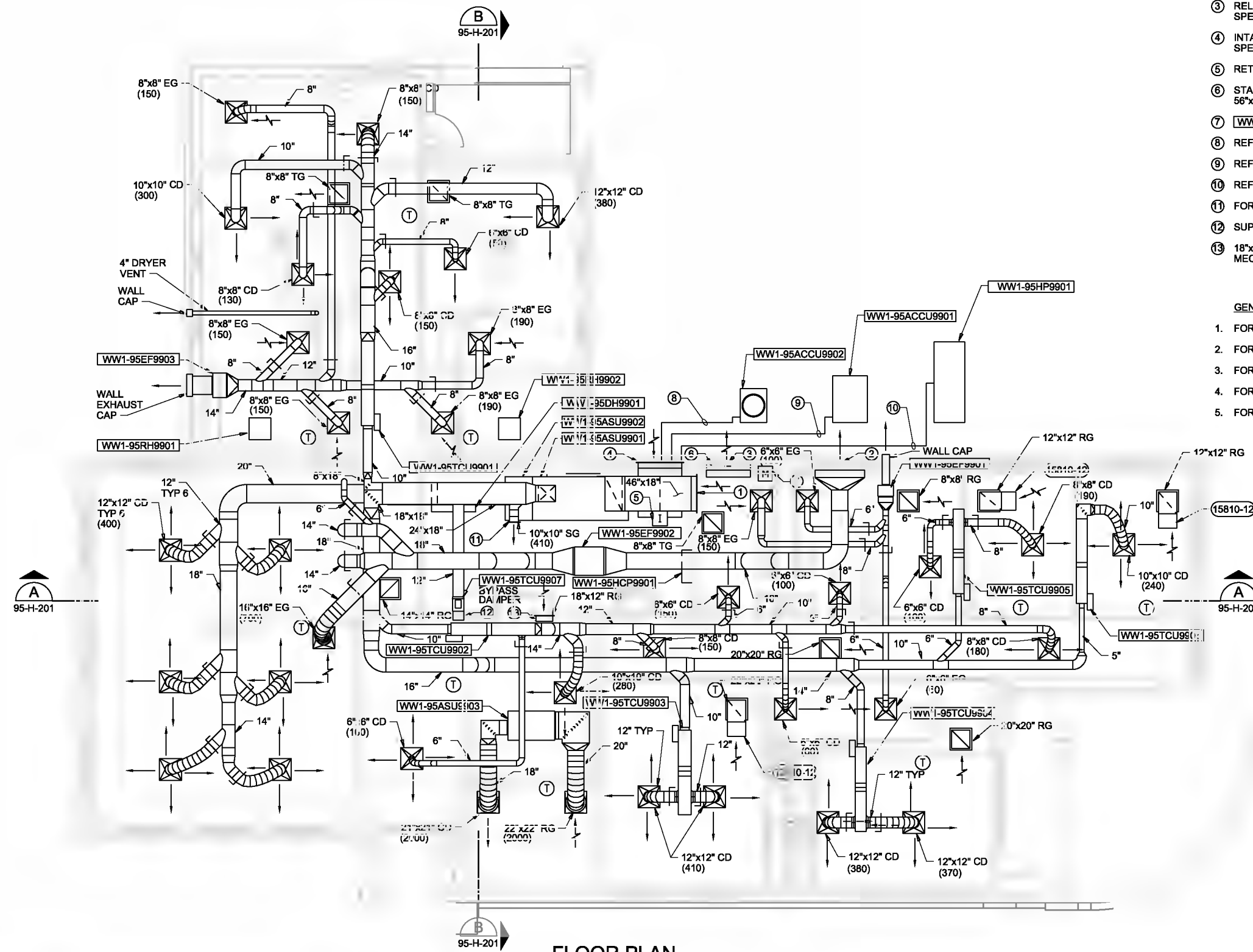


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CONTROL BUILDING
ELECTRICAL
SCHEDULE AND DIAGRAMS

| | |
|-------|-------------|
| SHEET | 488 |
| DWG | 95-E-501 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- KEYED NOTES:**
- ① 46"x18" RETURN AIR INLET FROM CEILING SPACE WITH 1/2" MESH SCREEN (0 CFM MIN, 3,460 CFM MAX)
 - ② EXHAUST LOUVER, SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS
 - ③ RELIEF LOUVER, SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS
 - ④ INTAKE LOUVER, SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS
 - ⑤ RETURN DUCT MOUNTED IONIZATION SMOKE DETECTOR
 - ⑥ STANDARD DUTY COUNTER-BALANCED BACK DRAFT DAMPER, 56"x48"
 - ⑦ WW1-95MD9901 ECONOMIZER RELIEF DAMPER, 56"x48"
 - ⑧ REFRIGERANT PIPING ROUTE TO WW1-95ASU9903
 - ⑨ REFRIGERANT PIPING ROUTE TO WW1-95ASU9902
 - ⑩ REFRIGERANT PIPING ROUTE TO WW1-95ASU9901
 - ⑪ FOR DUCT MOUNTED OUTLET SEE (15810-9)
 - ⑫ SUPPLY AIR BYPASS, DISCHARGE INTO CEILING PLENUM SPACE
 - ⑬ 18"x12" WALL OPENING ABOVE CEILING LEVEL TO ALLOW MECHANICAL ROOM RETURN AIR INTO CEILING PLENUM

- GENERAL NOTES:**
1. FOR REFRIGERANT PIPING PENETRATIONS OF WALLS SEE (15410-9)
 2. FOR REFRIGERANT PIPING SEE (15183-4)
 3. FOR CONDENSATE DRAINS AT COOLING COILS SEE (15100-3)
 4. FOR TERMINAL CONTROL UNITS SEE (15441)
 5. FOR DUCTS THROUGH MECHANICAL ROOM WALLS SEE (15810-10)

FLOOR PLAN
3/18"=1'-0"

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| | | | | | |
|------|--------------|----------|------|----------|----|
| DSGN | KL WELP | | | | |
| DR | SL HOSTETLER | | | | |
| CHK | TJ REJUR | 01/23/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

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BAR IS ONE INCH ON ORIGINAL DRAWING.
0" = 1'
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

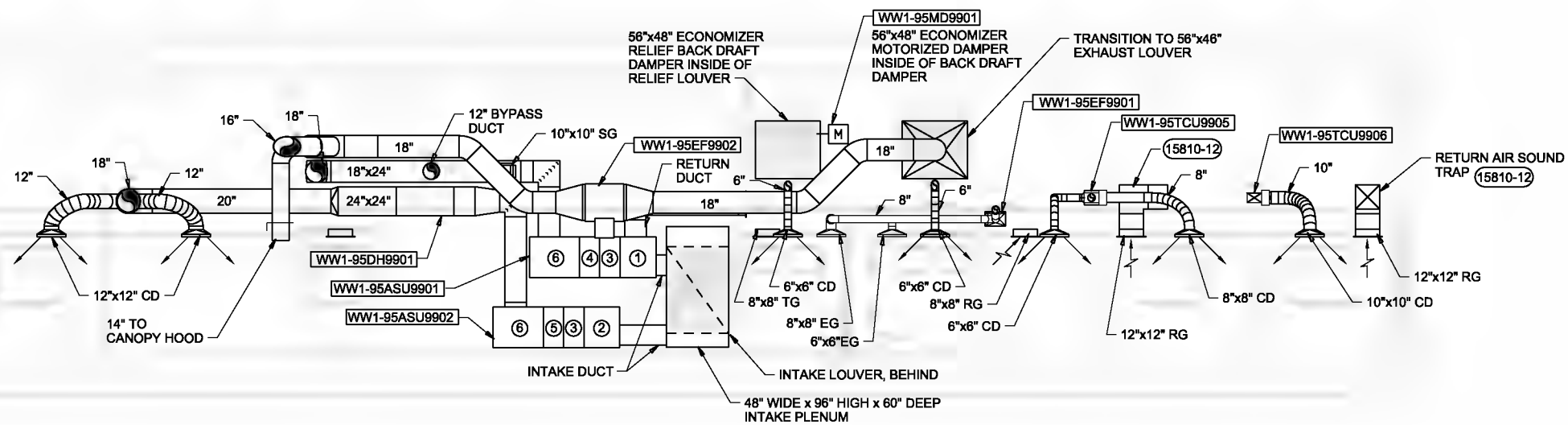


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CONTROL BUILDING
HVAC
FLOOR PLAN

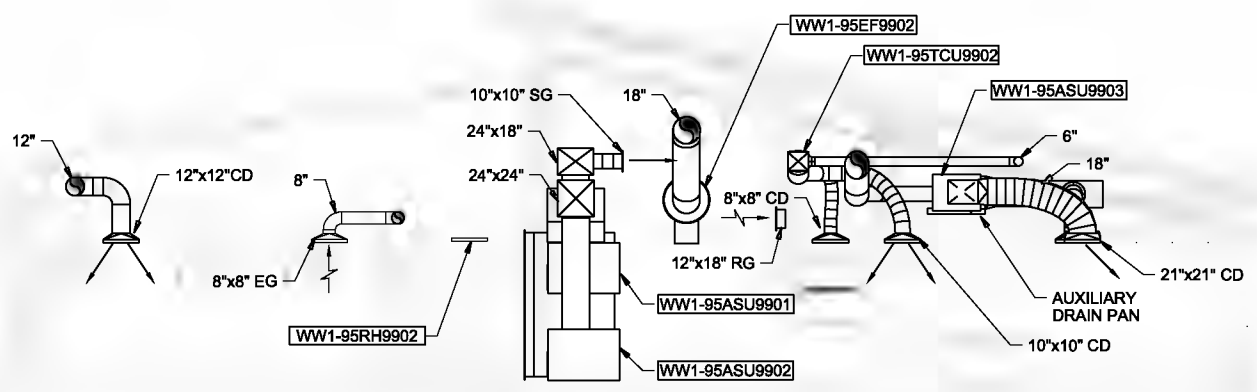
| | |
|-------|-------------|
| SHEET | 489 |
| DWG | 95-H-140 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

REUSE OF DOCUMENTS: CH2MHILL AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2MHILL.



- KEYED NOTES:**
- ① AIR MIXING AND FILTER MODULE
 - ② AIR FILTER MODULE WITH OUTSIDE AIR DAMPER
 - ③ 16" ACCESS MODULE
 - ④ DX COOLING AND HEATING MODULE
 - ⑤ DX COOLING MODULE
 - ⑥ FAN MODULE

- GENERAL NOTES**
1. AIR MIXING MODULE MINIMUM OUTSIDE AIR 1,140 CFM.
 2. IN ECONOMIZER MODE, AIR MIXING MODULE MODULATES TO PROVIDE OUTSIDE AIR COOLING.
 3. OUTSIDE AIR DAMPER TO CLOSE WHEN AIR SUPPLY UNIT IS OFF.



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| | | | | | |
|--------|-------------|--|-----|--------|---|
| DESIGN | W. WELP | (FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT | MLR | TJR | VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. |
| DR | B. HOETTLER | | | | |
| CHK | T. REJFR | | | | |
| APPROV | C. WASSIE | | | | |
| NO. | DATE | REVISION | BY | APPROV | |

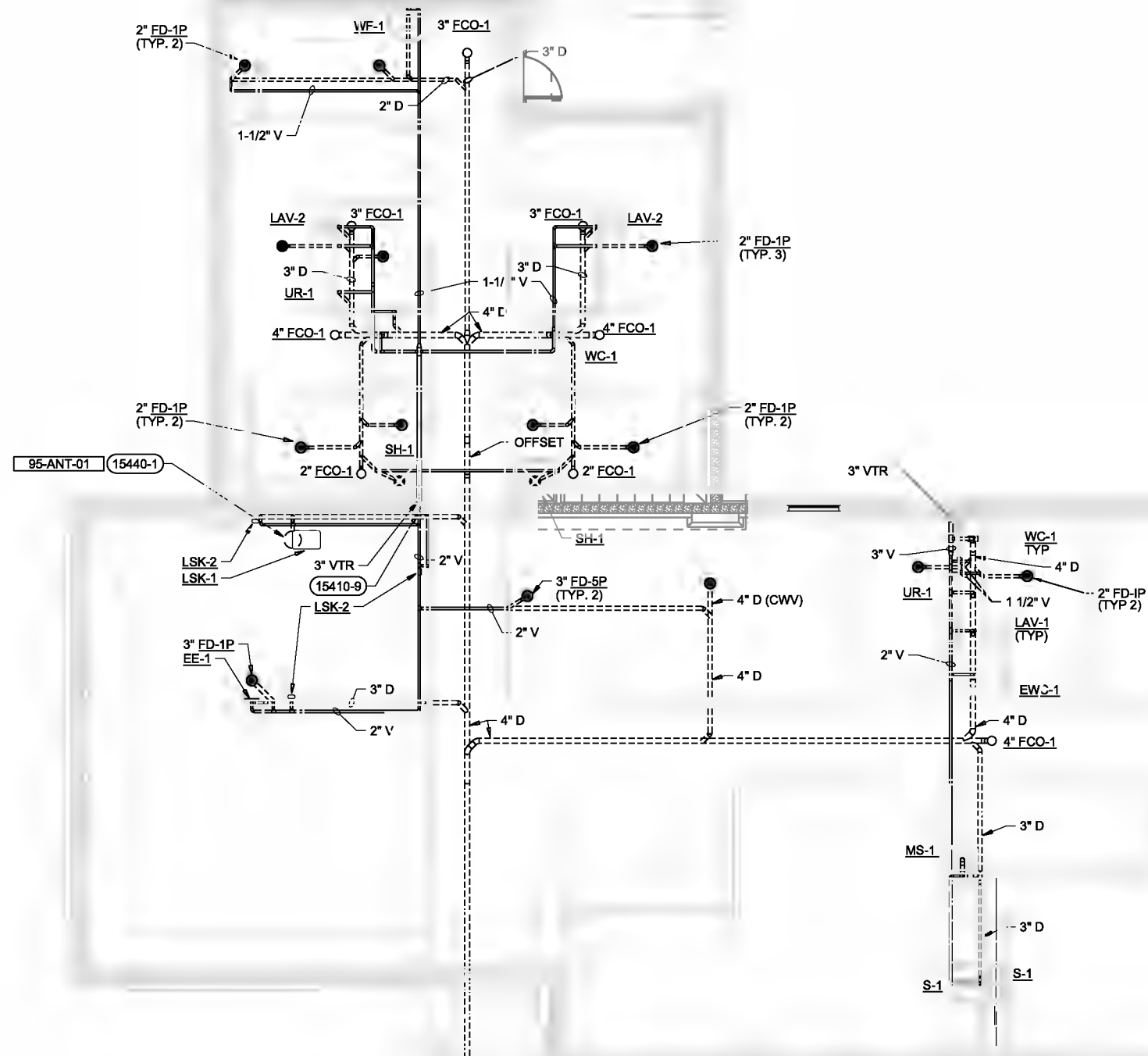
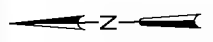


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CONTROL BUILDING
HVAC
SECTIONS

| | |
|-------|-------------|
| SHEET | 490 |
| DWG | 95-H-201 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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NOTES:
 1. UNLESS NOTED OTHERWISE, FOR BRANCH LINES SERVING SINGLE FIXTURES, SIZE PIPE TO FIXTURE CONNECTION SIZE.

FLOOR PLAN
 3/16"=1'-0"

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| | | | | | |
|--------|------------|----------|------|----------|----|
| DESIGN | RT BRARISH | | | | |
| DR | RT BRARISH | | | | |
| CHK | TJ REJFR | 01/23/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
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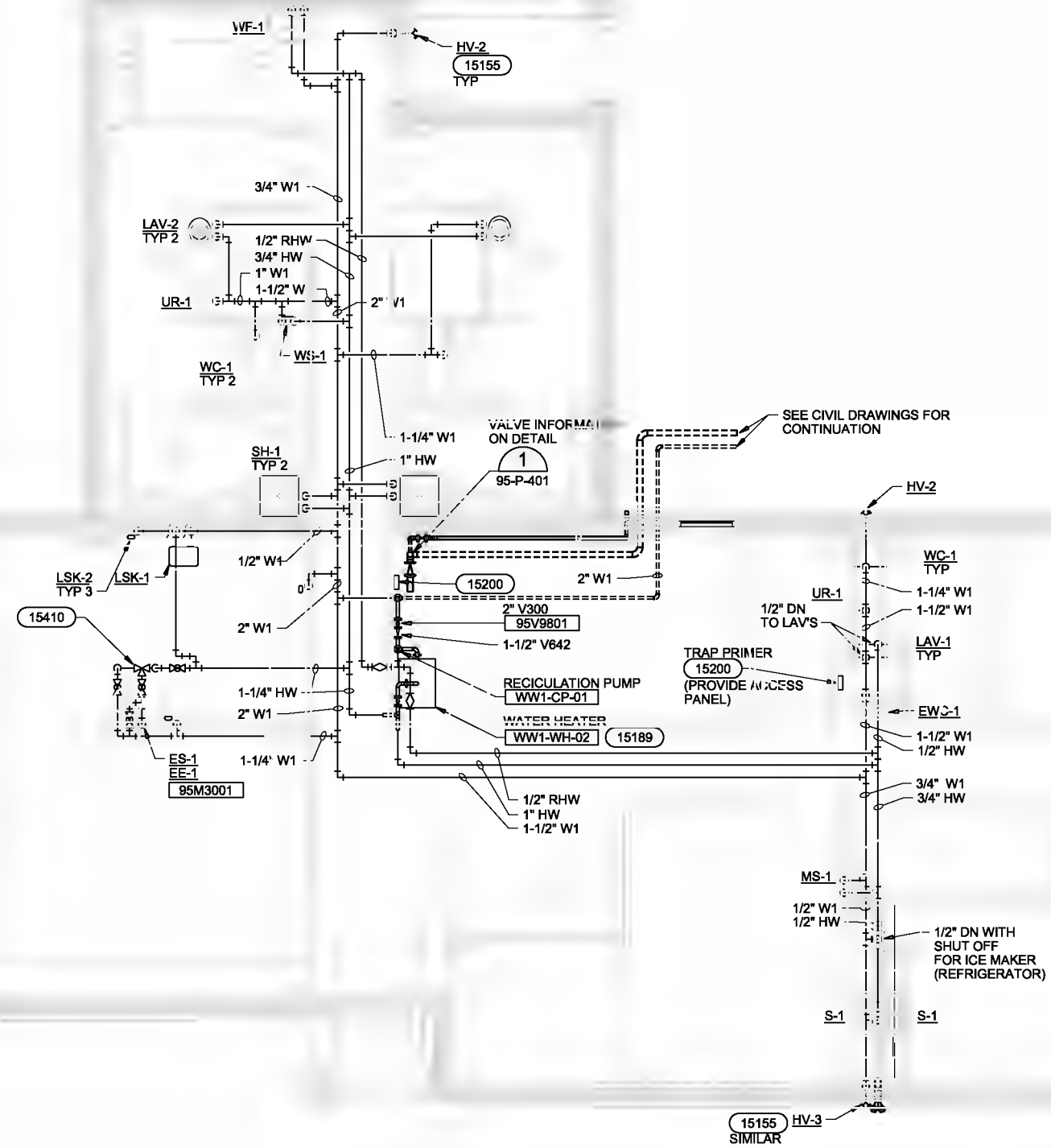
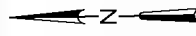
CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

CONTROL BUILDING
 PLUMBING
 WASTE AND VENT
 PIPING PLAN

| | |
|-------|-------------|
| SHEET | 491 |
| DWG | 95-P-140 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

FILENAME: 95nF140d_326918.dgn PLOT DATE: 6/11/2010 PLOT TIME: 1:41:54 PM

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NOTES:
 1. UNLESS NOTED OTHERWISE, FOR BRANCH LINES SERVING SINGLE FIXTURES, SIZE PIPE TO FIXTURE CONNECTION SIZE.

FLOOR PLAN
 3/16"=1'-0"

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| | | | | | | | |
|------|-------------|----------|------|----------|----|------|--|
| DSGN | RT DBAIBISH | | | | | | |
| DR | RT DBAIBISH | | | | | | |
| CHK | RJ REJFR | 01/23/10 | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | |

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
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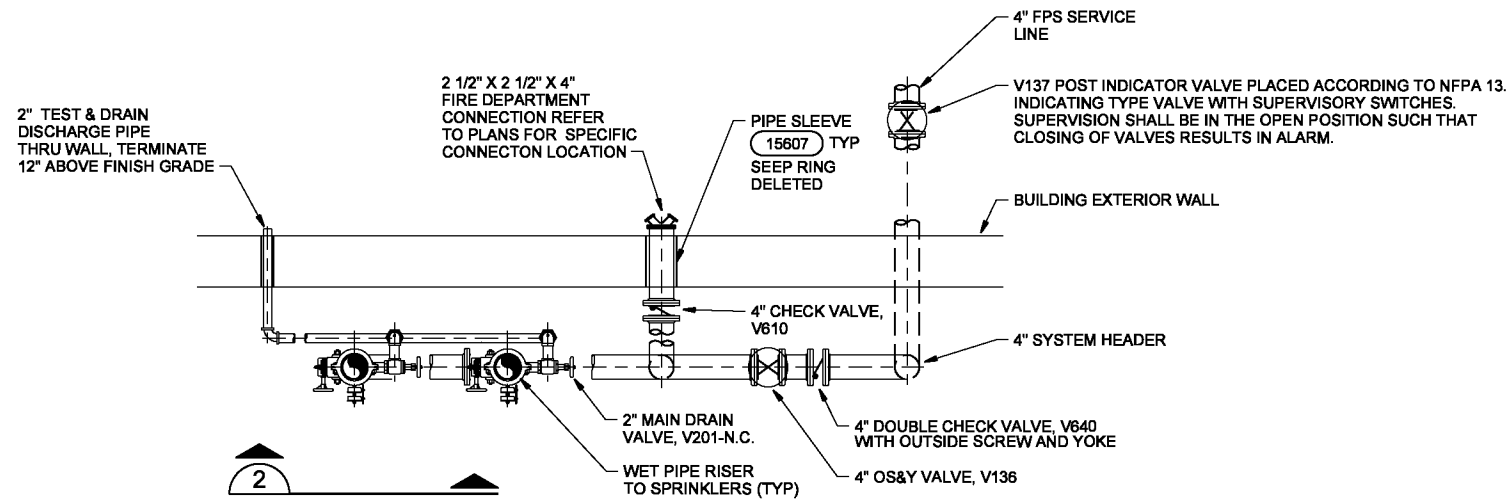


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

CONTROL BUILDING
 PLUMBING SERVICE
 PIPING PLAN

| | |
|-------|-------------|
| SHEET | 492 |
| DWG | 95-P-141 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

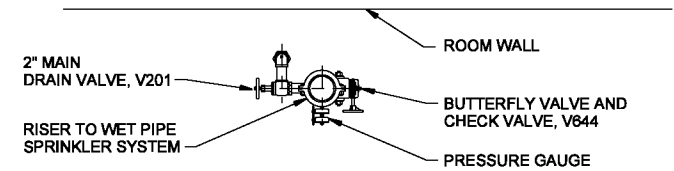
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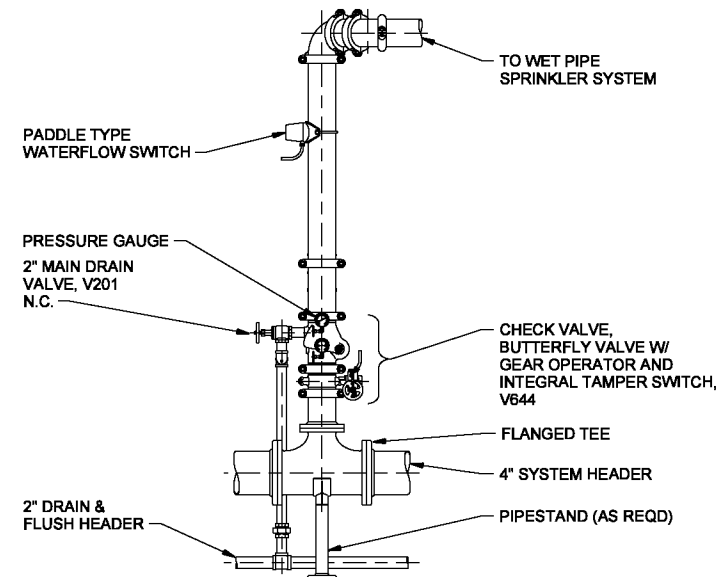
MECHANICAL ROOM

NOTE:
DETAIL PROVIDES INFORMATION FOR A MULTIPLE RISER SYSTEM.
ALL PERTINANT INFORMATION APPLIES TO A SINGLE RISER SYSTEM
THOUGH CONFIGURATION MAY VARY.

FIRE SPRINKLER RISER PLAN 1
NTS 95-P-141



PLAN OF RISER



ELEVATION OF RISER

WET PIPE SYSTEM RISER NOTES:

1. ALL WATER SUPPLY CONTROL VALVES SHALL BE ELECTRICALLY SUPERVISED TO THEIR NORMAL POSITIONS.
2. "N.C." DENOTES A NORMALLY CLOSED VALVE.

FIRE SPRINKLER RISER DETAIL 2
NTS

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| | | | | | | | | | |
|------|-------------|----------|------|----------|----|------|--|--|--|
| DSGN | RT BRAIBISH | | | | | | | | |
| DR | RT BRAIBISH | | | | | | | | |
| CHK | TJ REJFIR | 01/20/10 | | | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
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0 1"
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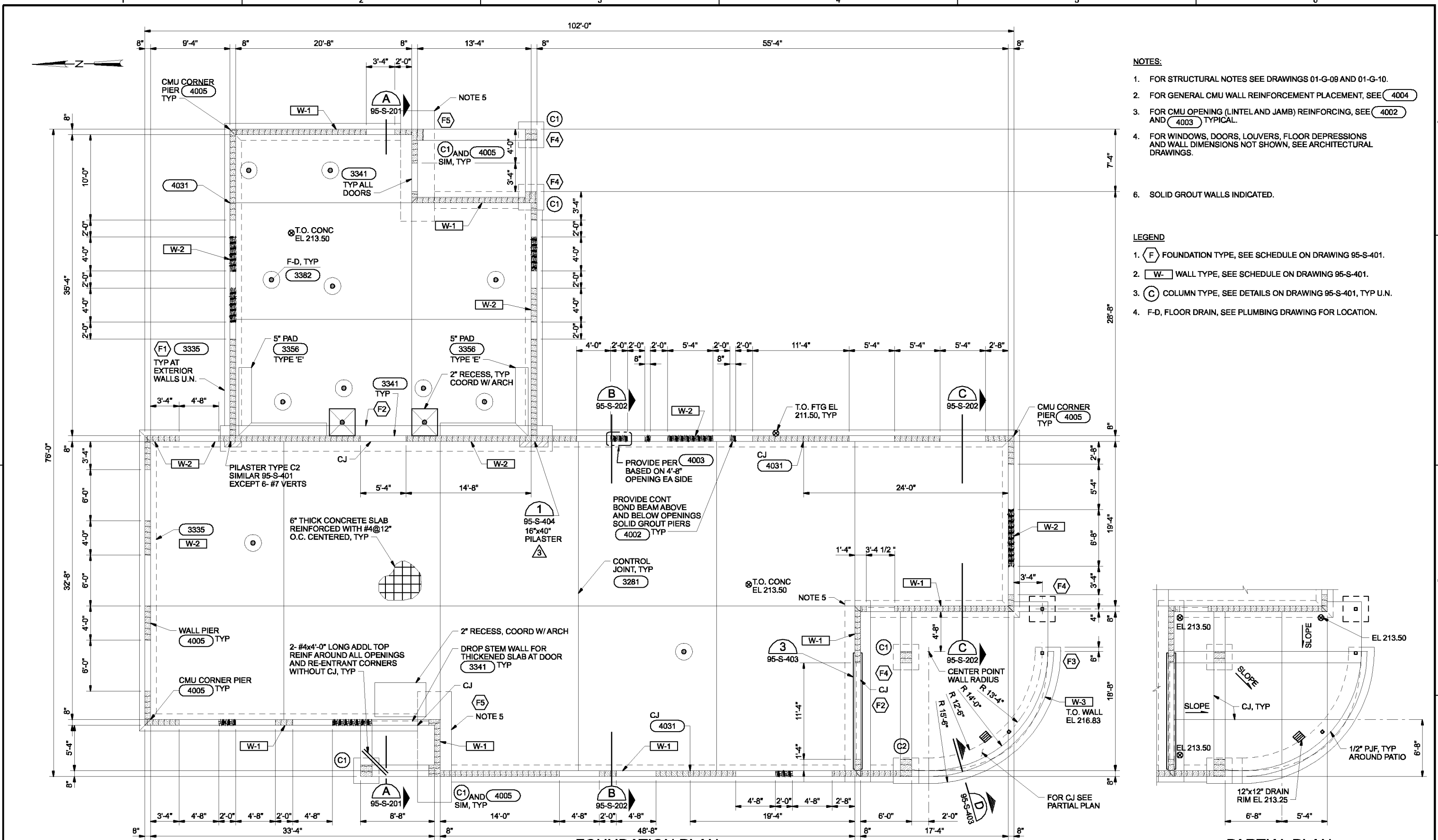


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CONTROL BUILDING
PLUMBING
DETAILS

| | |
|-------|-------------|
| SHEET | 493 |
| DWG | 95-P-401 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- NOTES:**
- FOR STRUCTURAL NOTES SEE DRAWINGS 01-G-09 AND 01-G-10.
 - FOR GENERAL CMU WALL REINFORCEMENT PLACEMENT, SEE 4004
 - FOR CMU OPENING (LINTEL AND JAMB) REINFORCING, SEE 4002 AND 4003 TYPICAL.
 - FOR WINDOWS, DOORS, LOUVERS, FLOOR DEPRESSIONS AND WALL DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
 - SOLID GROUT WALLS INDICATED.

- LEGEND**
- (F) FOUNDATION TYPE, SEE SCHEDULE ON DRAWING 95-S-401.
 - (W-) WALL TYPE, SEE SCHEDULE ON DRAWING 95-S-401.
 - (C) COLUMN TYPE, SEE DETAILS ON DRAWING 95-S-401, TYP U.N.
 - F-D, FLOOR DRAIN, SEE PLUMBING DRAWING FOR LOCATION.

FOUNDATION PLAN
3/16"=1'-0"

PARTIAL PLAN
3/16"=1'-0"

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| | | | | | |
|------|--------------|----------|------|----------|----|
| DSGN | MA NIETO | | | | |
| DR | HF JOCHIMSEN | | | | |
| CHK | MJ MERKLEIN | 01/20/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

VERIFY SCALE
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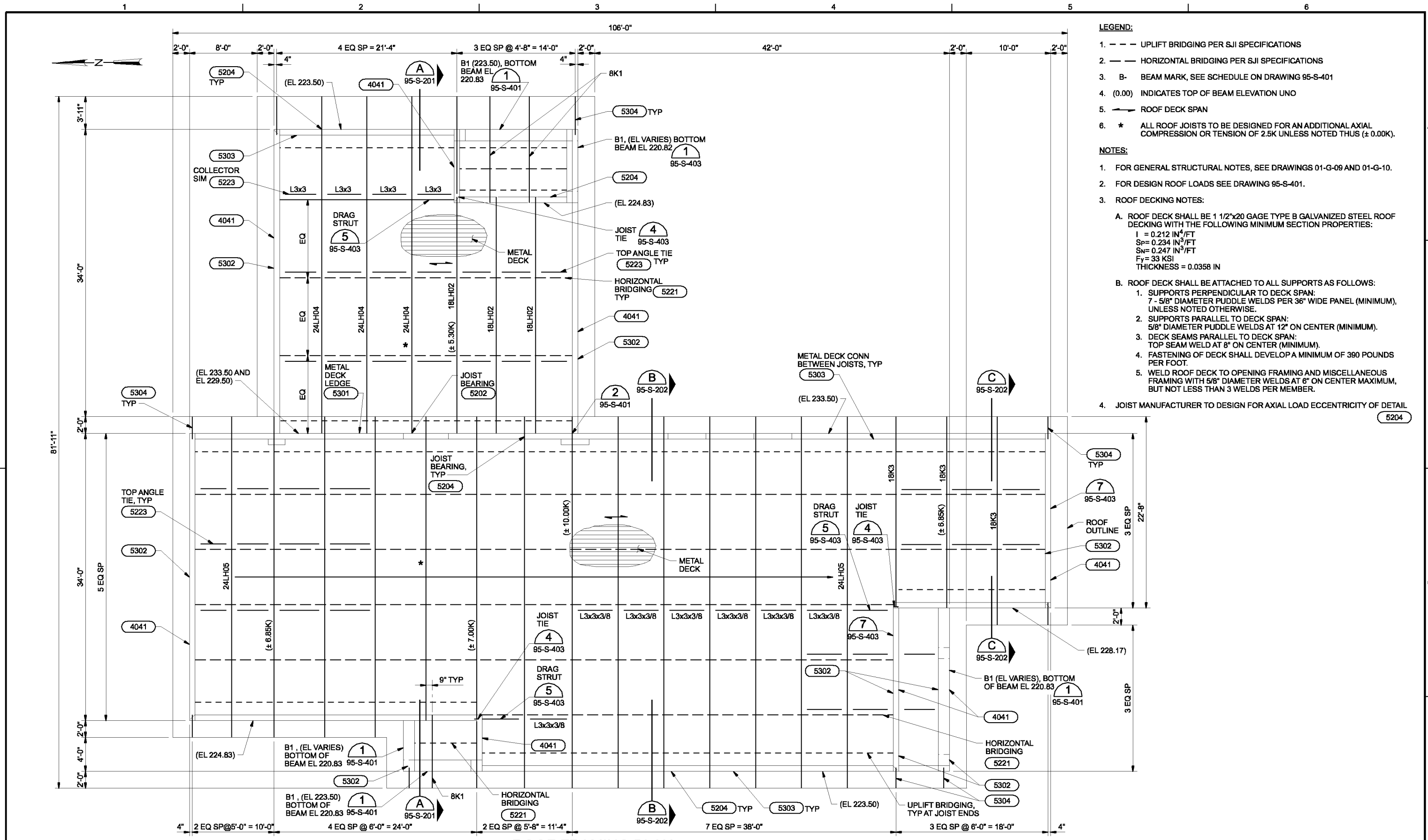


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CONTROL BUILDING
STRUCTURAL
FOUNDATION PLAN

| | |
|-------|-------------|
| SHEET | 494 |
| DWG | 95-S-130 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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- LEGEND:**
- UPLIFT BRIDGING PER SJI SPECIFICATIONS
 - HORIZONTAL BRIDGING PER SJI SPECIFICATIONS
 - B- BEAM MARK, SEE SCHEDULE ON DRAWING 95-S-401
 - (0.00) INDICATES TOP OF BEAM ELEVATION UNO
 - ROOF DECK SPAN
 - * ALL ROOF JOISTS TO BE DESIGNED FOR AN ADDITIONAL AXIAL COMPRESSION OR TENSION OF 2.5K UNLESS NOTED THUS (± 0.00K).

- NOTES:**
- FOR GENERAL STRUCTURAL NOTES, SEE DRAWINGS 01-G-09 AND 01-G-10.
 - FOR DESIGN ROOF LOADS SEE DRAWING 95-S-401.
 - ROOF DECKING NOTES:
 - ROOF DECK SHALL BE 1 1/2"x20 GAGE TYPE B GALVANIZED STEEL ROOF DECKING WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:
 - I = 0.212 IN⁴/FT
 - Sp = 0.234 IN²/FT
 - Sn = 0.247 IN²/FT
 - Fy = 33 KSI
 - THICKNESS = 0.0358 IN
 - ROOF DECK SHALL BE ATTACHED TO ALL SUPPORTS AS FOLLOWS:
 - SUPPORTS PERPENDICULAR TO DECK SPAN: 7 - 5/8" DIAMETER PUDDLE WELDS PER 36" WIDE PANEL (MINIMUM), UNLESS NOTED OTHERWISE.
 - SUPPORTS PARALLEL TO DECK SPAN: 5/8" DIAMETER PUDDLE WELDS AT 12" ON CENTER (MINIMUM).
 - DECK SEAMS PARALLEL TO DECK SPAN: TOP SEAM WELD AT 8" ON CENTER (MINIMUM).
 - FASTENING OF DECK SHALL DEVELOP A MINIMUM OF 390 POUNDS PER FOOT.
 - WELD ROOF DECK TO OPENING FRAMING AND MISCELLANEOUS FRAMING WITH 5/8" DIAMETER WELDS AT 6" ON CENTER MAXIMUM, BUT NOT LESS THAN 3 WELDS PER MEMBER.
 - JOIST MANUFACTURER TO DESIGN FOR AXIAL LOAD ECCENTRICITY OF DETAIL (5204)

ROOF FRAMING PLAN
3/16"=1'-0"

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| | | | | | | |
|------|--------------|-----|------|----------|----|------|
| DSGN | MA NIETO | NO. | DATE | REVISION | BY | APVD |
| DR | HF JOCHIMSEN | | | | | |
| CHK | MJ MERKLEIN | | | | | |
| APVD | CW MASSIE | | | | | |
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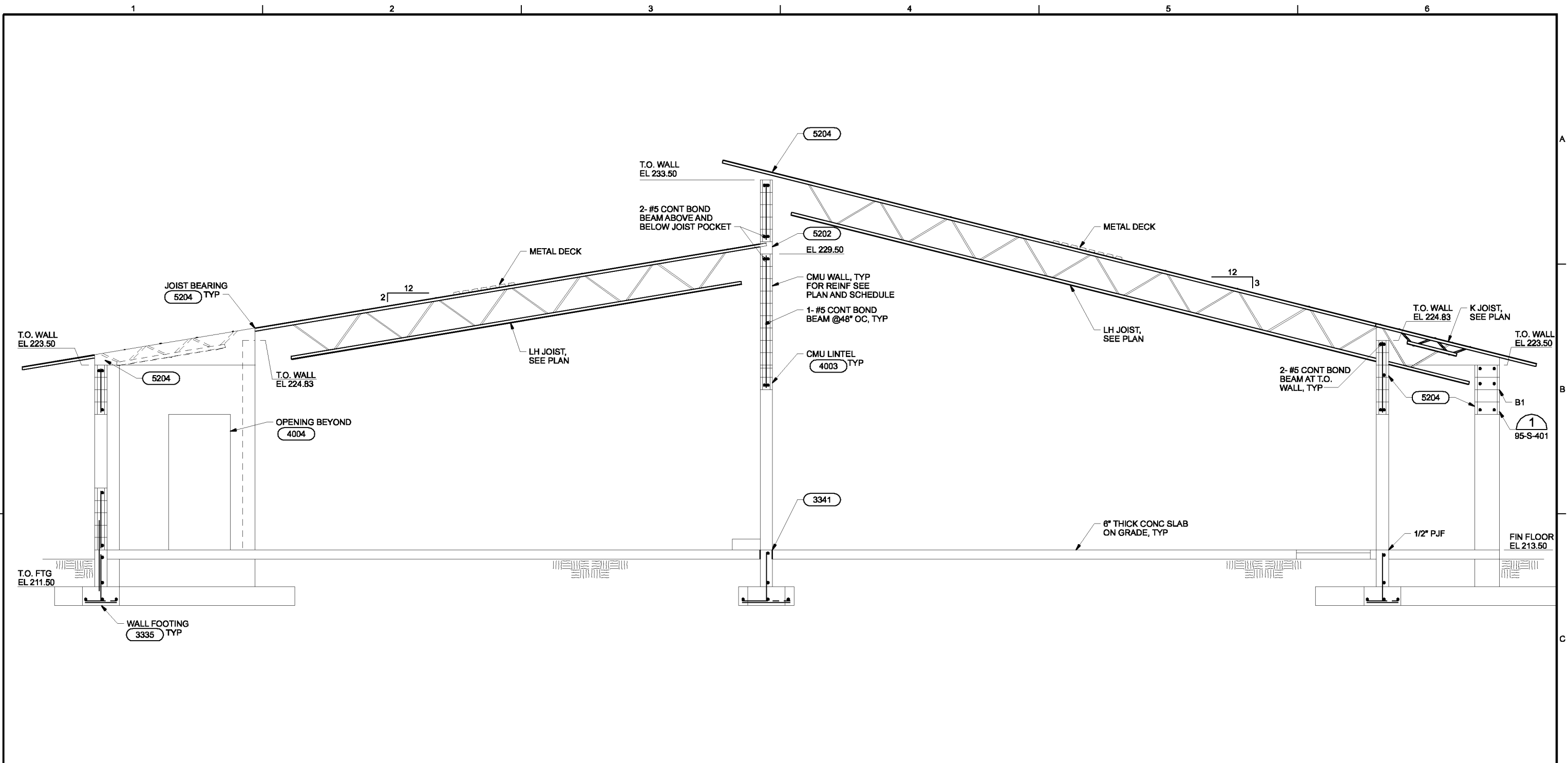


WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CONTROL BUILDING
STRUCTURAL
ROOF FRAMING PLAN

| | |
|-------|-------------|
| SHEET | 495 |
| DWG | 95-S-150 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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SECTION A
 3/8"=1'-0" 95-S-130
 95-S-150

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| | | | | | | |
|------|--------------|-----|------|----------|----|------|
| DSGN | MA NIETO | NO. | DATE | REVISION | BY | APVD |
| DR | HF JOCHIMSEN | | | | | |
| CHK | MJ MERKLEIN | | | | | |
| APVD | CW MASSIE | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

| | |
|-----|------|
| MLR | RAH |
| NO. | DATE |

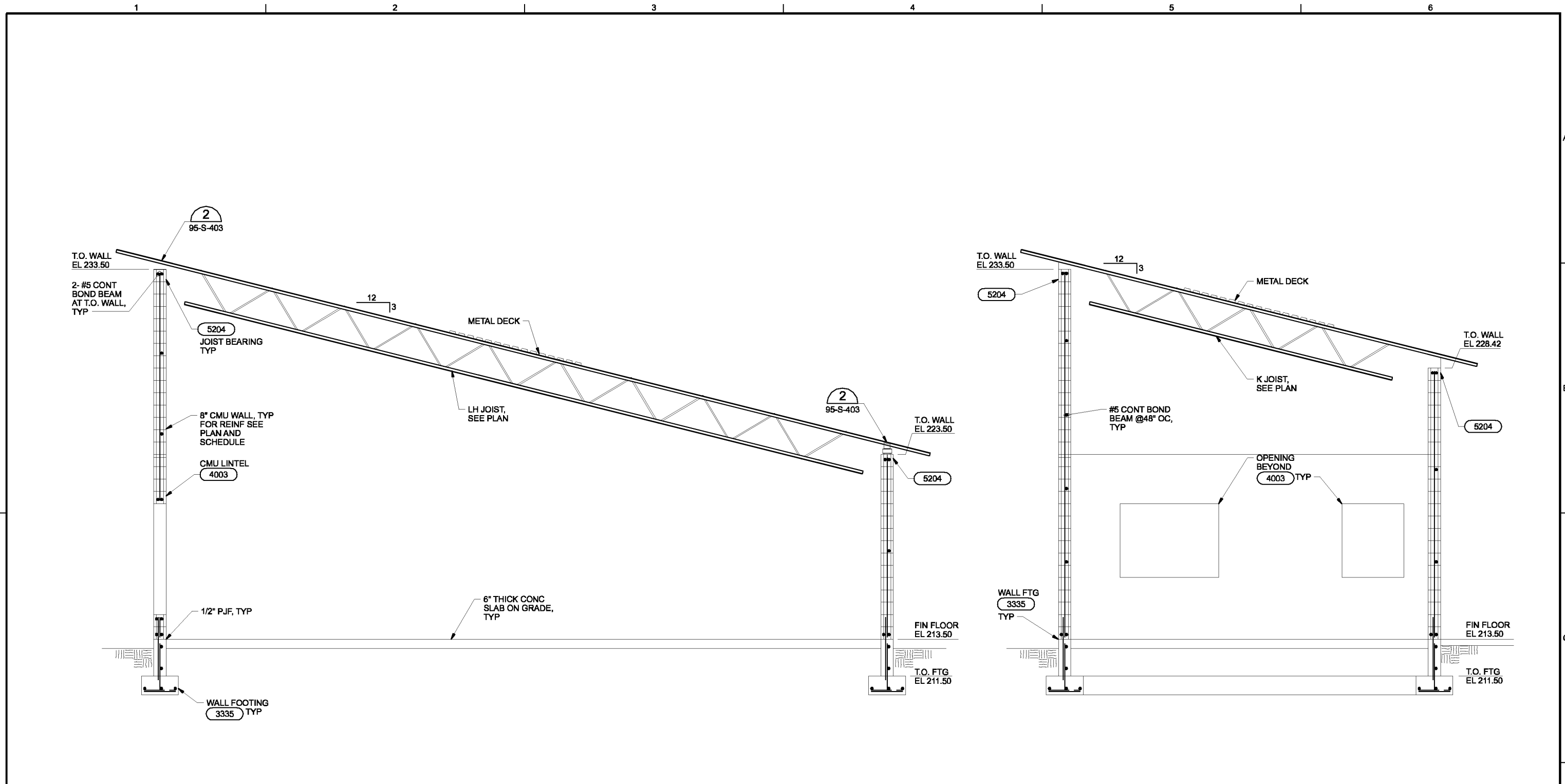


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

CONTROL BUILDING
 STRUCTURAL
 SECTION

| | |
|-------|-------------|
| SHEET | 496 |
| DWG | 95-S-201 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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| | | | | | | |
|------|--------------|-----|------|----------|----|------|
| DSGN | MA NIETO | NO. | DATE | REVISION | BY | APVD |
| DR | HF JOCHIMSEN | | | | | |
| CHK | MJ MERKLEIN | | | | | |
| APVD | CW MASSIE | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
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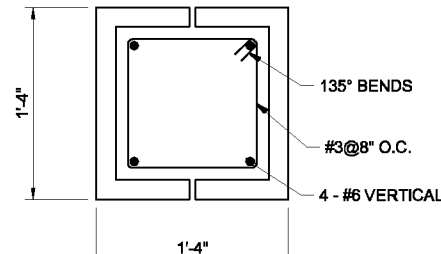


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CONTROL BUILDING
STRUCTURAL
SECTIONS

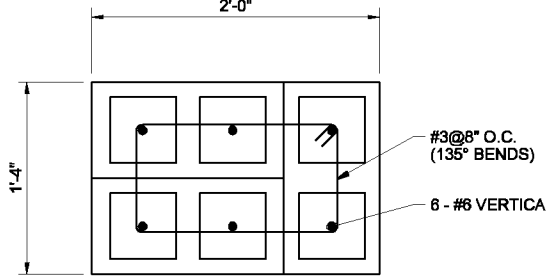
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| SHEET | 497 |
| DWG | 95-S-202 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

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COLUMN TYPE C1

NTS



COLUMN TYPE C2

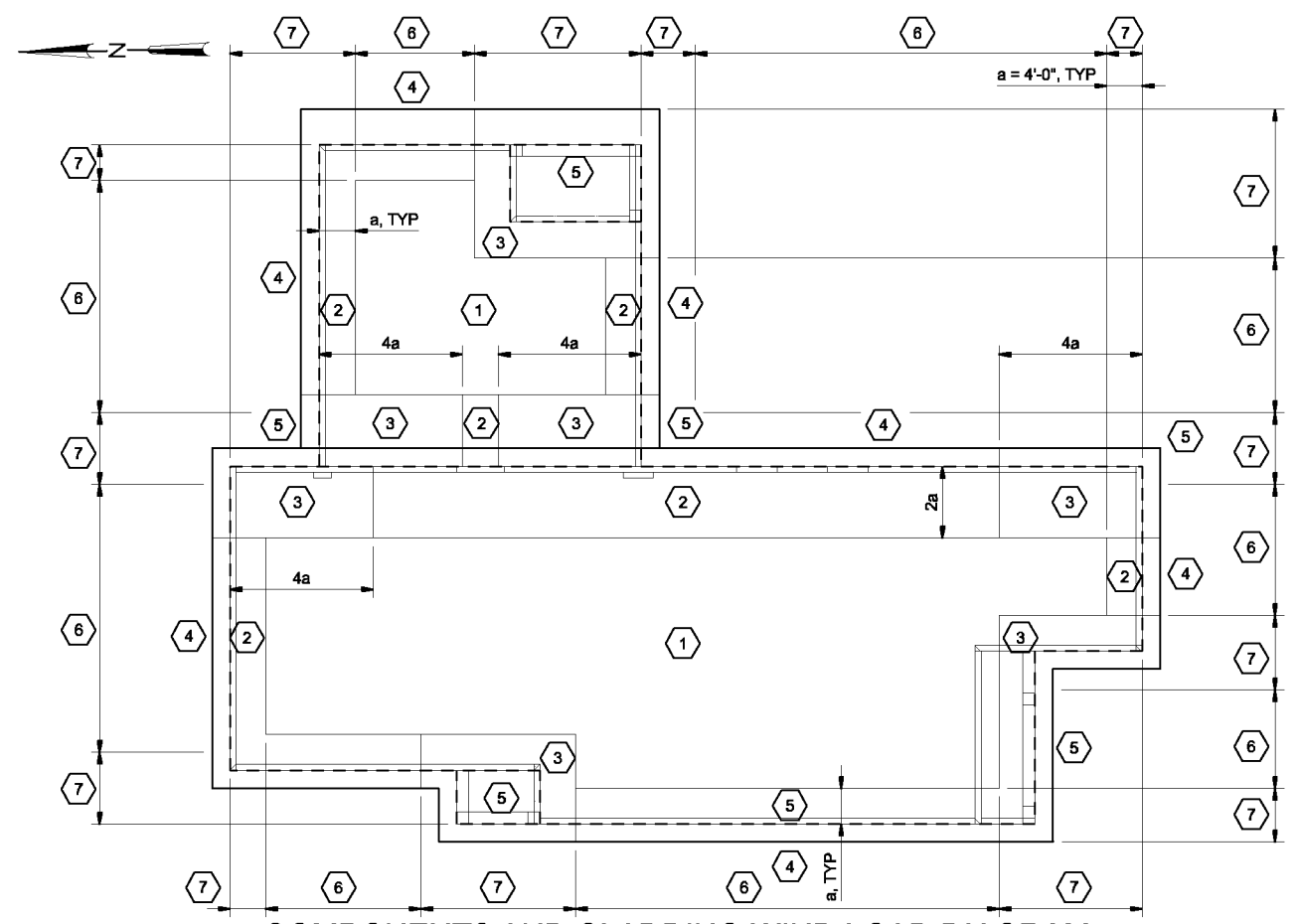
NTS

- NOTES:**
 1. BLOCKS SHALL BE ARRANGED IN AN INTERLOCKING PATTERN.
 2. SOLID GROUT COLUMNS FULL HEIGHT.

| FOOTING SCHEDULE | | | | |
|------------------|------------------|-----------|---|-----------------------------------|
| MARK | DIMENSIONS W x L | DEPTH 'D' | REINFORCING | REMARKS |
| F1 | 2'-0" x CONT | 12" | 3 - #5 CONTINUOUS AND #5@12" O.C. TRANSVERSE BOTTOM | 3335 |
| F2 | 3'-0" x CONT | 12" | 3 - #5 CONTINUOUS AND #5@12" O.C. TRANSVERSE BOTTOM | 3335 |
| F3 | 3'-0" x CONT | 12" | 3 - #5 CONTINUOUS T&B AND #5@12" O.C. TRANSVERSE TOP & BOTTOM | CURVED FOUNDATION, SEE D/95-S-403 |
| F4 | 3'-0" x 3'-0" | 12" | 4 - #5 EQUALLY SPACED EACH WAY, TOP AND BOTTOM | 3335 SIM |
| F5 | 13'-0" x 4'-0" | 12" | #5@12" EACH WAY, TOP AND BOTTOM | 3335 SIM |

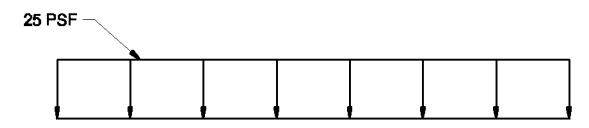
| STRUCTURAL WALL SCHEDULE | | | | |
|--------------------------|----------|---|-----------------------------|--|
| MARK | MATERIAL | REINFORCING | REMARKS | |
| W-1 | 8" CMU | #6@40" OC VERT WITH 1 - #5 CONT HORIZ BOND BEAM @48" OC | 3335 | |
| W-2 | 8" CMU | #6@24" OC VERT WITH 1 - #5 CONT HORIZ BOND BEAM @48" OC | 3335 | |
| W-3 | 8" CONC | #5@12" OC VERT WITH #4@12" OC HORIZ | CURVED WALL, SEE D/95-S-403 | |

| BEAM SCHEDULE | | | | | | |
|---------------|------------------|-------------|--------|------|------------|----------------|
| MARK | DIMENSIONS W x D | REINFORCING | | TIES | | REMARKS |
| | | BOTTOM | TOP | SIZE | SPACING | |
| B-1 | 16" x 24" | 2 - #5 | 2 - #5 | #4 | @ 16" O.C. | SEE 1/95-S-401 |

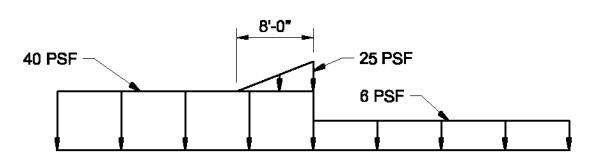


COMPONENTS AND CLADDING WIND LOAD DIAGRAM

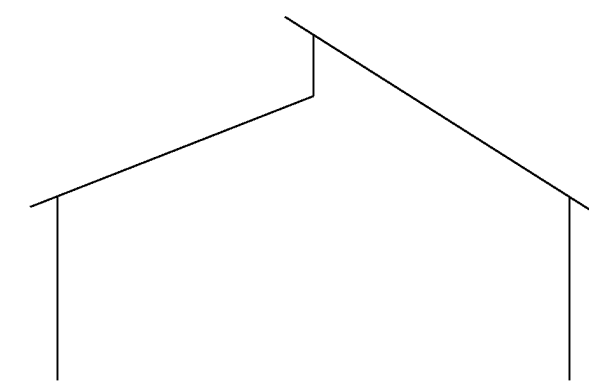
NTS



BALANCED



DRIFT & UNBALANCED



DESIGN SNOW LOADS

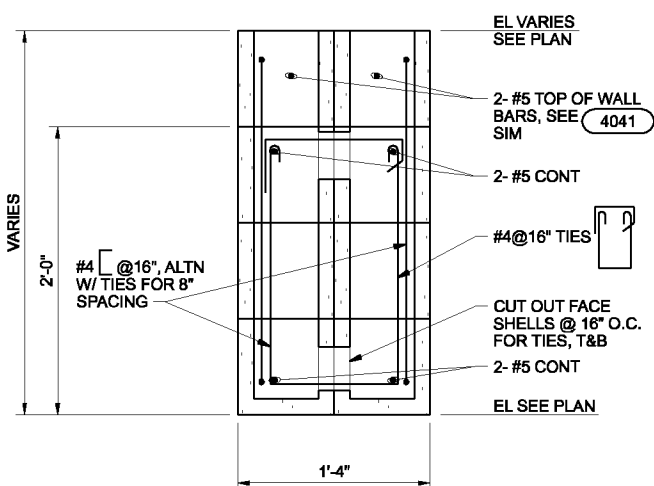
NTS

| COMPONENTS AND CLADDING WIND PRESSURES ROOF | | | | | | | | | | | | |
|---|-------|--------|-------|--------|-------|--------|--------|--------|--------|--------|---------|--------|
| AREA ZONE | 10 SF | | 20 SF | | 50 SF | | 100 SF | | 200 SF | | >500 SF | |
| | POS | NEG | POS | NEG | POS | NEG | POS | NEG | POS | NEG | POS | NEG |
| ROOF | | | | | | | | | | | | |
| 1 | 13.00 | -32.00 | 12.00 | -30.00 | 11.00 | -28.00 | 10.00 | -27.00 | 10.00 | -27.00 | 10.00 | -27.00 |
| 2 | 13.00 | -38.00 | 12.00 | -36.00 | 11.00 | -32.00 | 10.00 | -30.00 | 10.00 | -30.00 | 10.00 | -30.00 |
| 3 | 13.00 | -85.00 | 12.00 | -59.00 | 11.00 | -53.00 | 10.00 | -46.00 | 10.00 | -46.00 | 10.00 | -46.00 |
| OVERHANG | | | | | | | | | | | | |
| 4 | - | -47.00 | - | -47.00 | - | -47.00 | - | -47.00 | - | -47.00 | - | -47.00 |
| 5 | - | -79.00 | - | -70.00 | - | -82.00 | - | -53.00 | - | -53.00 | - | -53.00 |

| COMPONENTS AND CLADDING WIND PRESSURES WALLS | | | | | | | | | | | | |
|--|-------|--------|-------|--------|-------|--------|--------|--------|--------|--------|---------|--------|
| AREA ZONE | 10 SF | | 20 SF | | 50 SF | | 100 SF | | 200 SF | | >500 SF | |
| | POS | NEG | POS | NEG | POS | NEG | POS | NEG | POS | NEG | POS | NEG |
| WALL | | | | | | | | | | | | |
| 6 | 25.00 | -27.00 | 24.00 | -26.00 | 23.00 | -25.00 | 21.00 | -23.00 | 20.00 | -22.00 | 20.00 | -21.00 |
| 7 | 25.00 | -34.00 | 24.00 | -32.00 | 23.00 | -29.00 | 21.00 | -26.00 | 20.00 | -23.00 | 20.00 | -21.00 |

- NOTES:**
 1. DESIGN ROOF LIVE LOAD = 25 PSF
 2. FOR GENERAL STRUCTURAL NOTES, SEE DRAWINGS 01-G-09 AND 01-G-10.
 3. NET UPLIFT: INTERIOR: ZONE 1: 21PSF; ZONE 2: 24 PSF; ZONE 3: 40 PSF; OVERHANG: ZONE 4: 42 PSF; ZONE 5: 48 PSF (FRONT AND REAR ENTRY CANOPIES).

- NOTES:**
 1. LINEAR INTERPOLATION BETWEEN AREA VALUES IS ACCEPTABLE.
 2. COMPONENT AREA SHALL BE L x W OR L x 1/3 L WHICHEVER IS GREATER.
 3. DEDUCT 60% OF THE DEAD LOADS FOR NET UPLIFT PRESSURES.



CMU BEAM B-1 DETAIL

1 1/2"=1'-0"

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| | | | | | |
|------|-------------|----------|------|----------|----|
| DSGN | MA NIETO | | | | |
| DR | SR REDDELL | | | | |
| CHK | MJ MERKLEIN | 01/20/10 | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY |

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 0 1"
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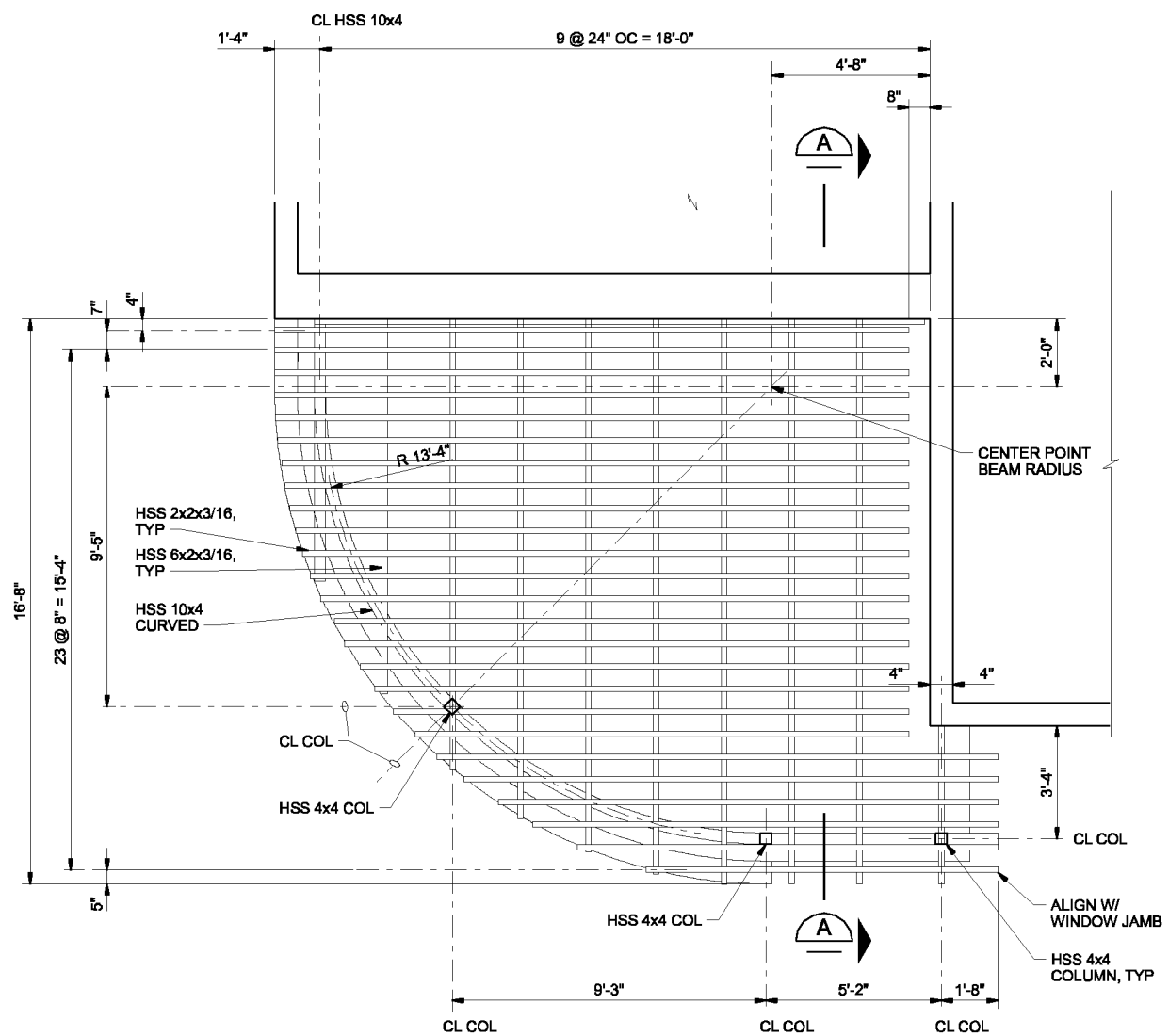


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 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

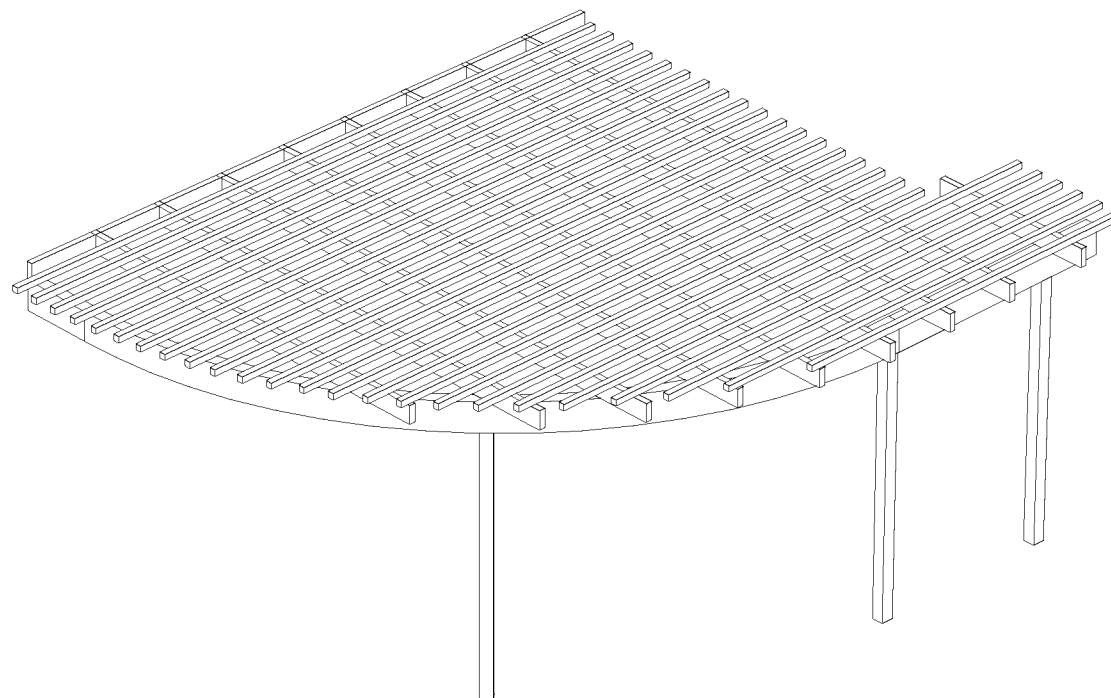
CONTROL BUILDING
 STRUCTURAL
 DETAILS

| | |
|-------|-------------|
| SHEET | 498 |
| DWG | 95-S-401 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

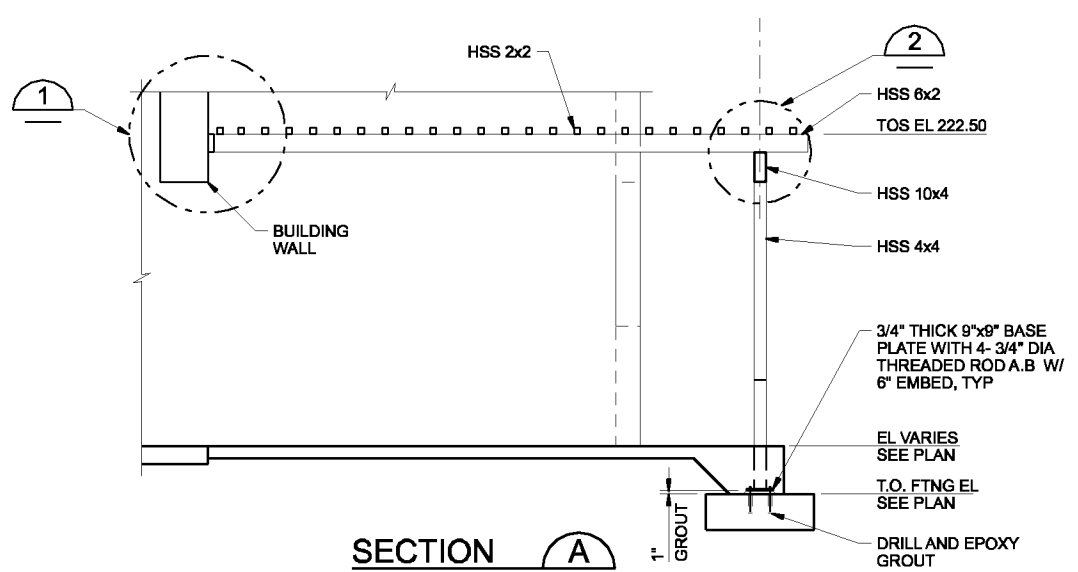
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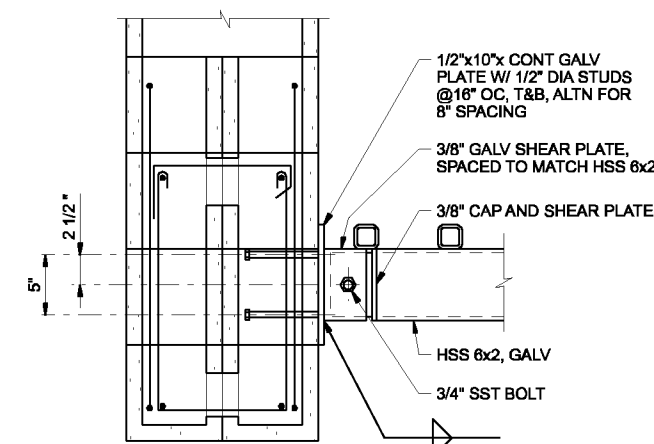
PERGOLA PARTIAL PLAN
3/8"=1'-0"



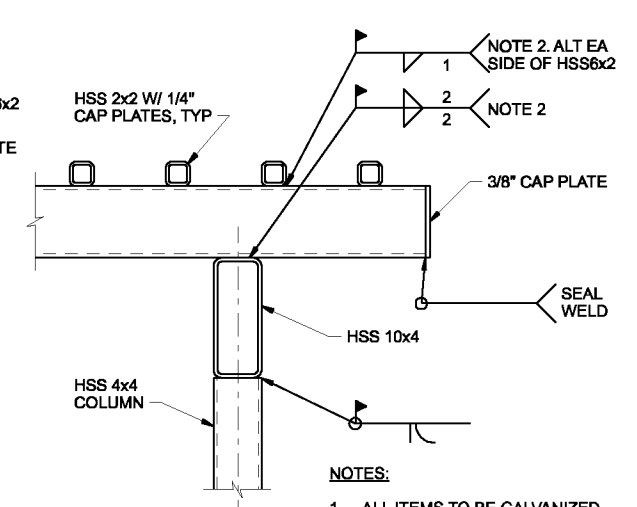
PERGOLA ISOMETRIC
NTS



SECTION A
3/8"=1'-0"



DETAIL 1
1 1/2"=1'-0"
95-S-150
95-S-201



DETAIL 2
1 1/2"=1'-0"

- NOTES:**
1. ALL ITEMS TO BE GALVANIZED.
 2. CLEAN WELD AND ADJACENT SURFACE AREAS AND REPAIR GALVANIZING PER SPECIFICATION SECTION 05500 PRIOR TO PAINTING.

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| | | | | | | | | | |
|------|--------------|----------|------|----------|----|------|--|--|--|
| DSGN | MA NIETO | | | | | | | | |
| DR | HF JOCHIMSEN | | | | | | | | |
| CHK | MJ MERKLEIN | 01/20/10 | | | | | | | |
| APVD | CW MASSIE | NO. | DATE | REVISION | BY | APVD | | | |

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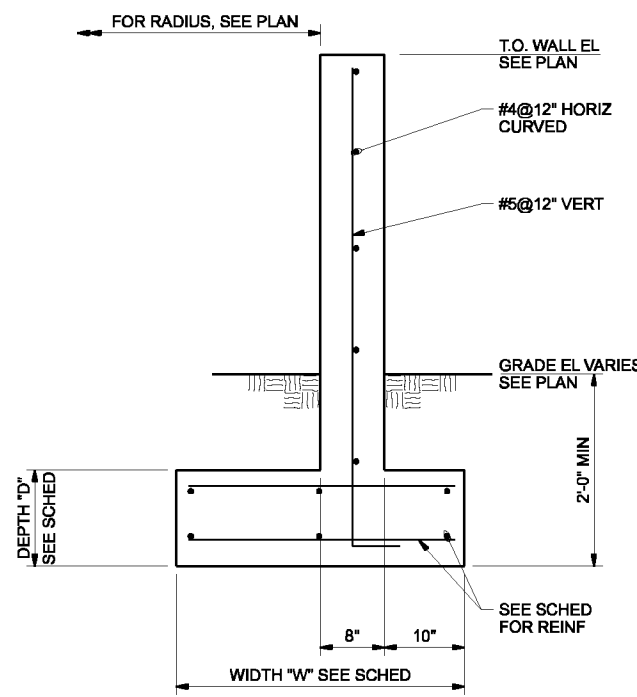


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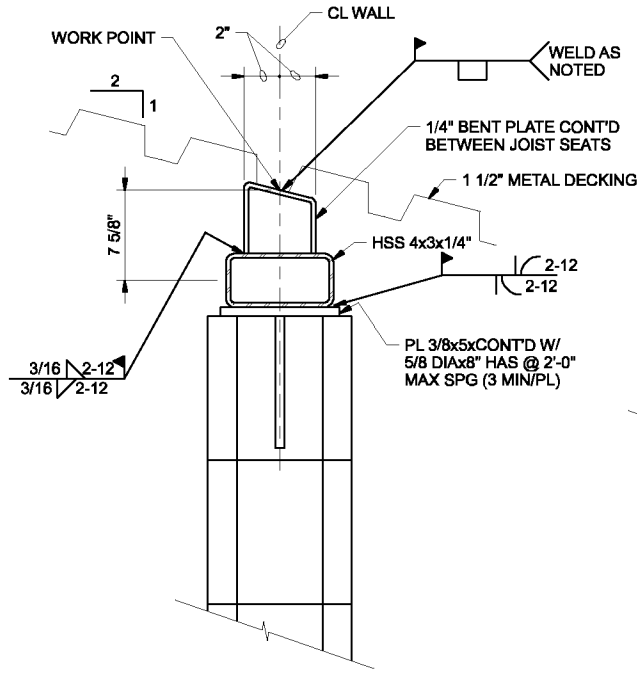
CONTROL BUILDING
STRUCTURAL
PERGOLA PARTIAL PLAN, SECTION
AND ISOMETRIC

| | |
|-------|-------------|
| SHEET | 499 |
| DWG | 95-S-402 |
| DATE | MAY 19 2006 |
| PROJ | 326918 |

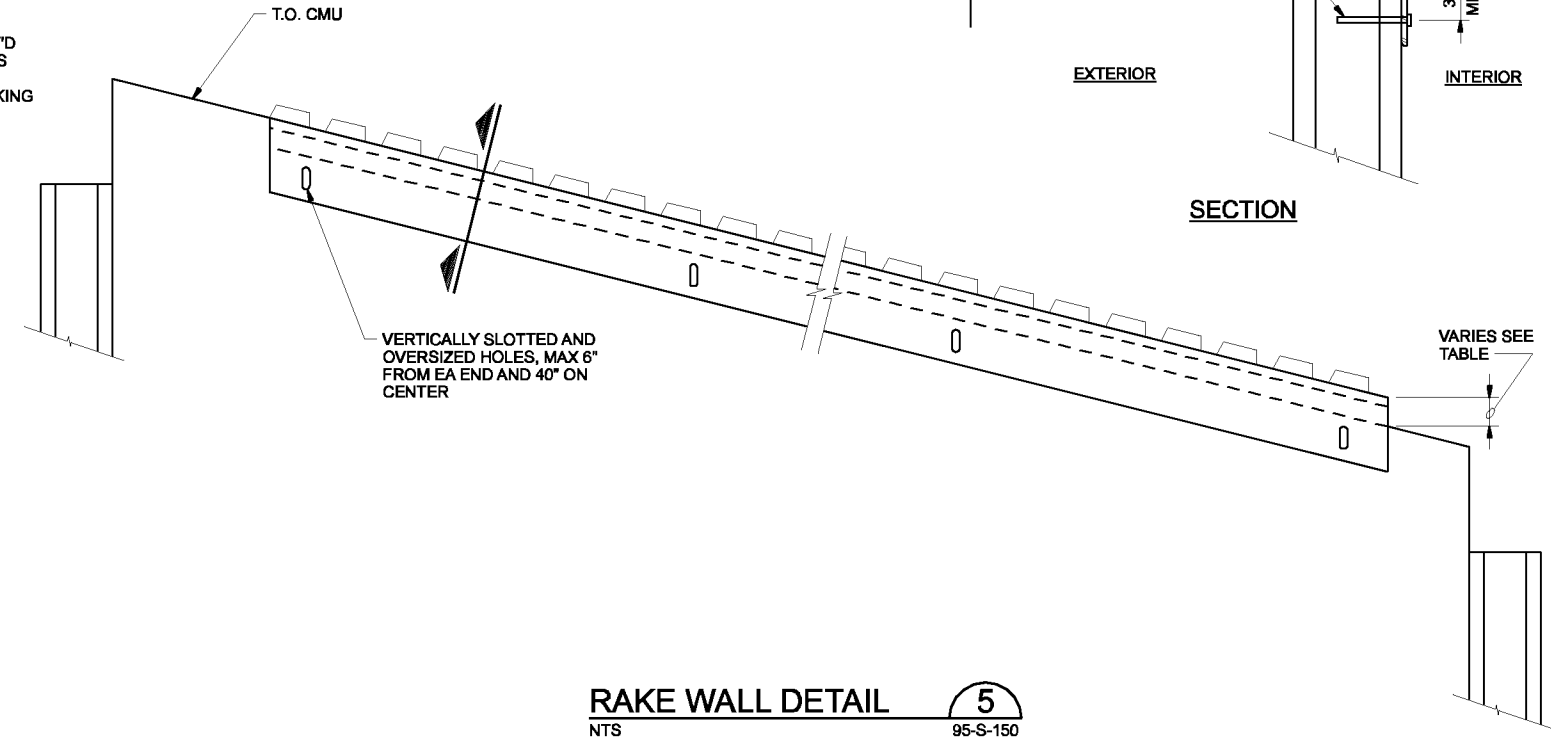
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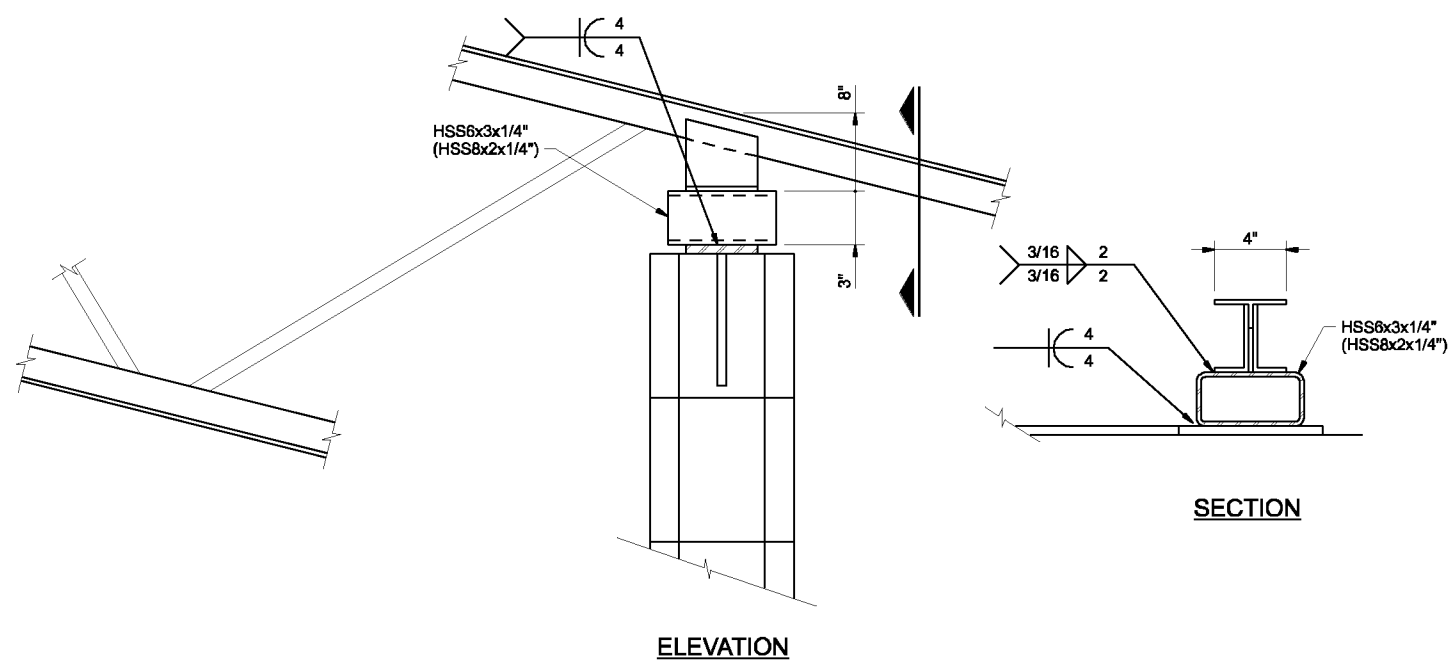
SECTION D
1\"/>



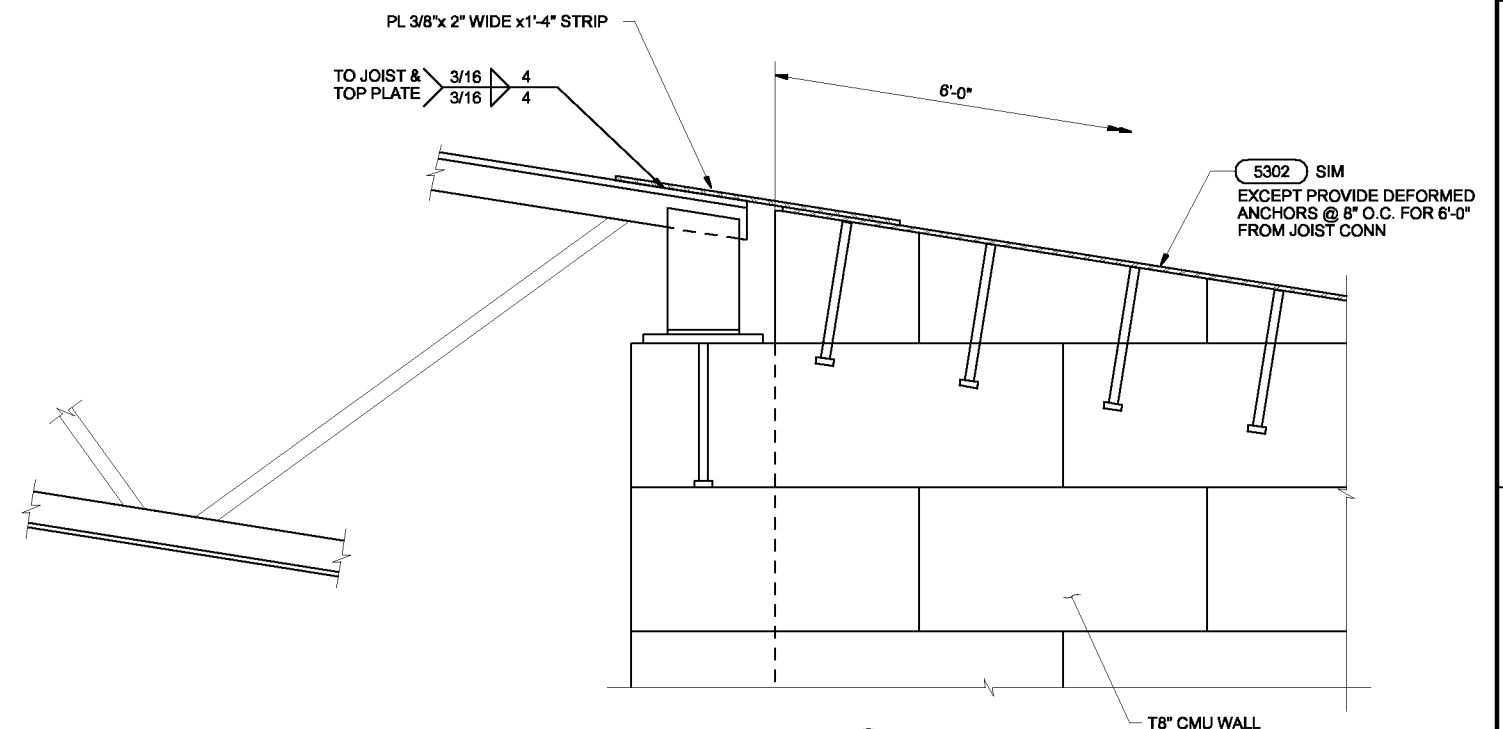
CONNECTION AT WALL 3
NTS 95-S-150



RAKE WALL DETAIL 5
NTS 95-S-150



CONNECTION AT JOIST 2
NTS 95-S-150



JOIST TIE 4
NTS 95-S-150

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| | | | | | | |
|------|--------------|-----|------|----------|----|------|
| DSGN | MA NIETO | NO. | DATE | REVISION | BY | APVD |
| DR | MR DANIELSON | | | | | |
| CHK | MJ MERKLEIN | | | | | |
| APVD | CW MASSIE | | | | | |
| | | | | | | |

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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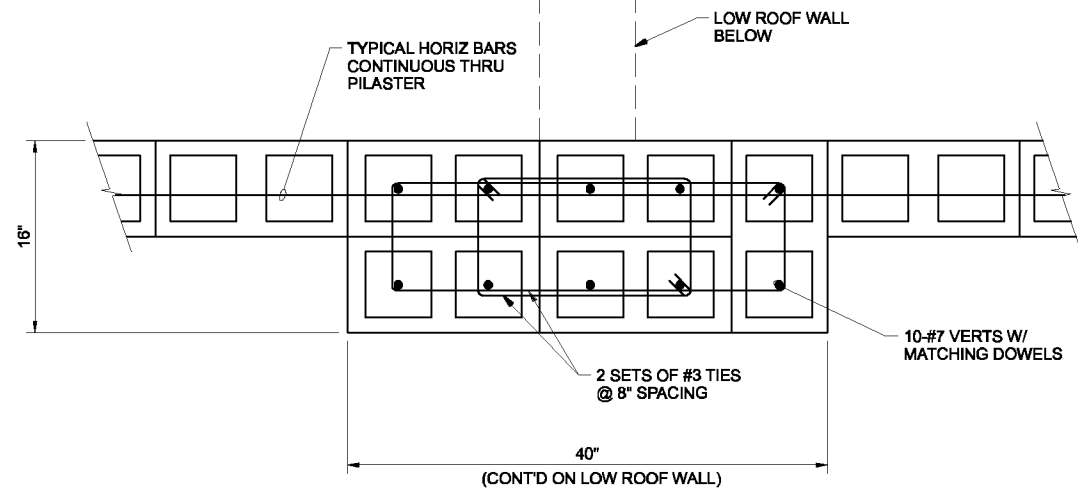
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CONTROL BUILDING
STRUCTURAL
SECTION

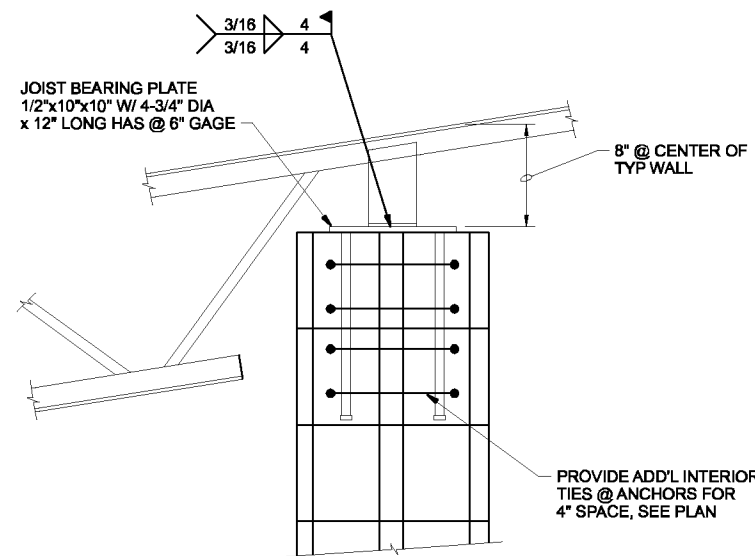
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| SHEET | 500 |
| DWG | 95-S-403 |
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| PROJ | 326918 |

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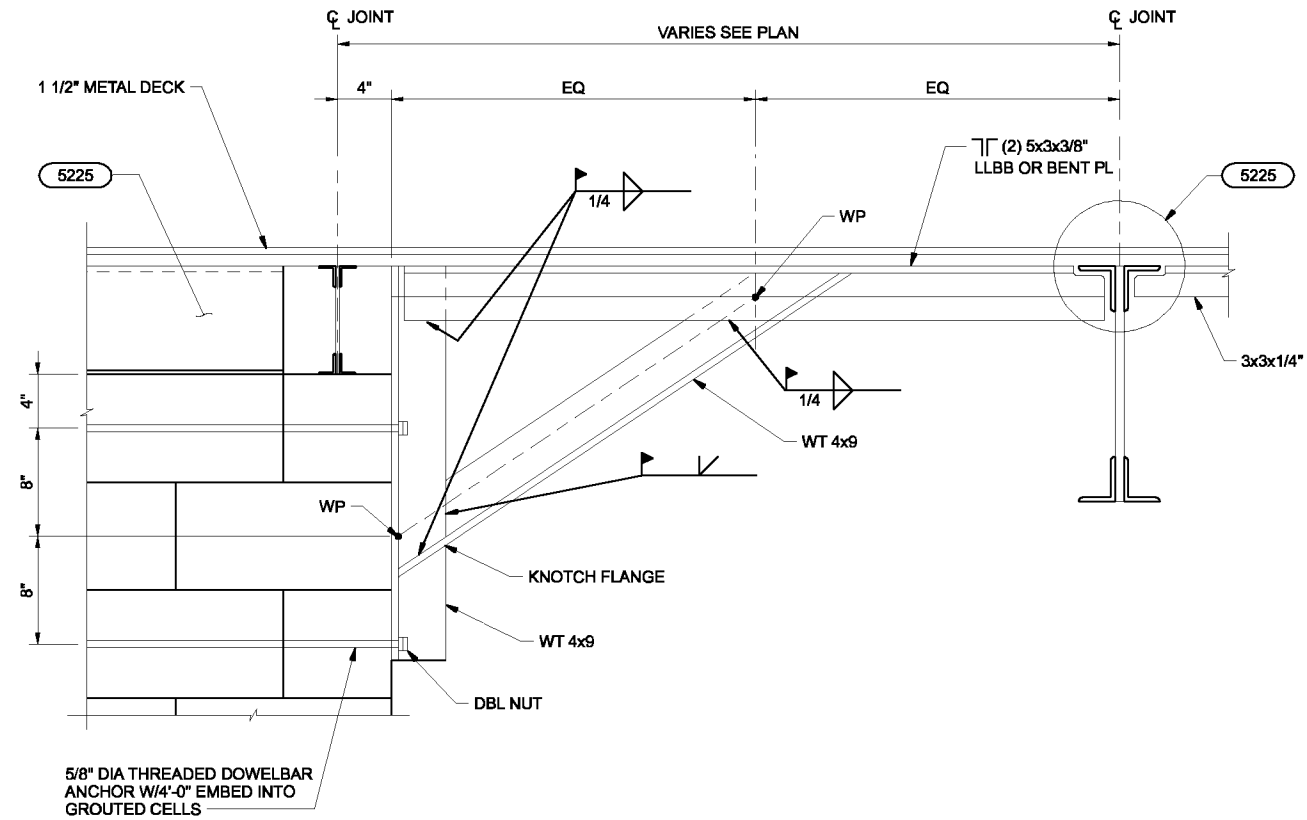
NOTES:
 1. PROVIDE JOIST BEARING PLATE @ BEAM 16"x40" AND 16"x24" PILASTER.



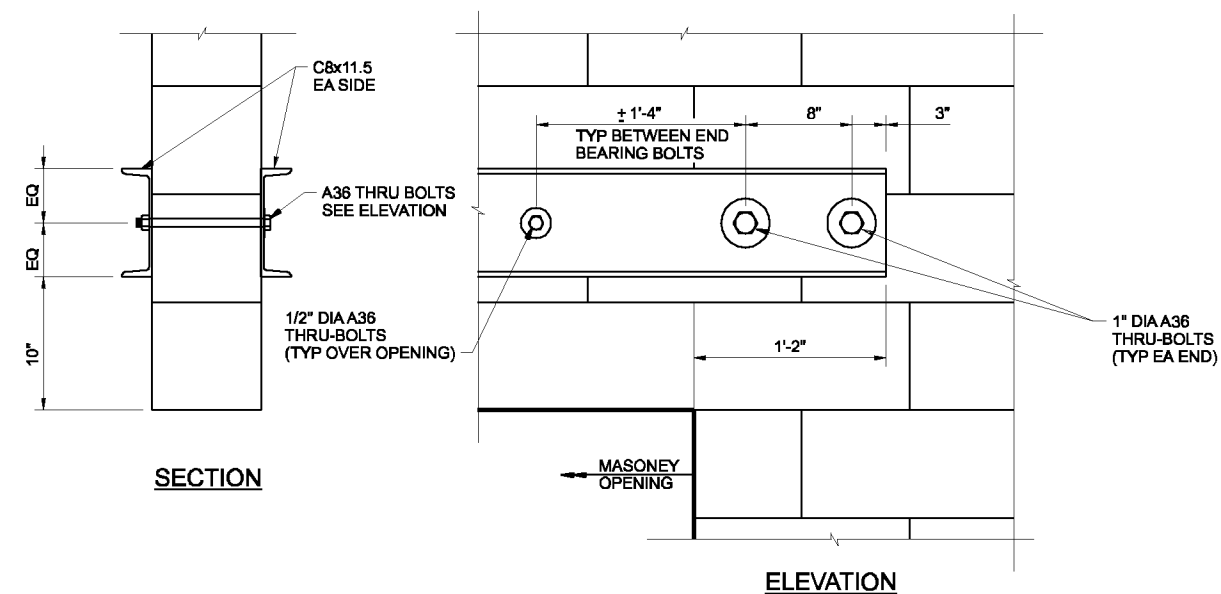
PLAN



16"x40" PILASTER
 NTS



DRAG STRUT SHEAR WALL CONNECTION
 NTS



MASONRY OPENING
 NTS

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| | | | | | | |
|---|-------------|-----|------|----------|----|------|
| DSGN | MA NIETO | NO. | DATE | REVISION | BY | APVD |
| DR | SR REDDELL | | | | | |
| CHK | MJ MERKLEIN | | | | | |
| APVD | CW MASSIE | | | | | |
| | | | | | | |
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CONTROL BUILDING
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