

CITY OF

PENDLETON, OREGON

WASTEWATER TREATMENT PLANT CLARIFIER REHABILITATION 2024

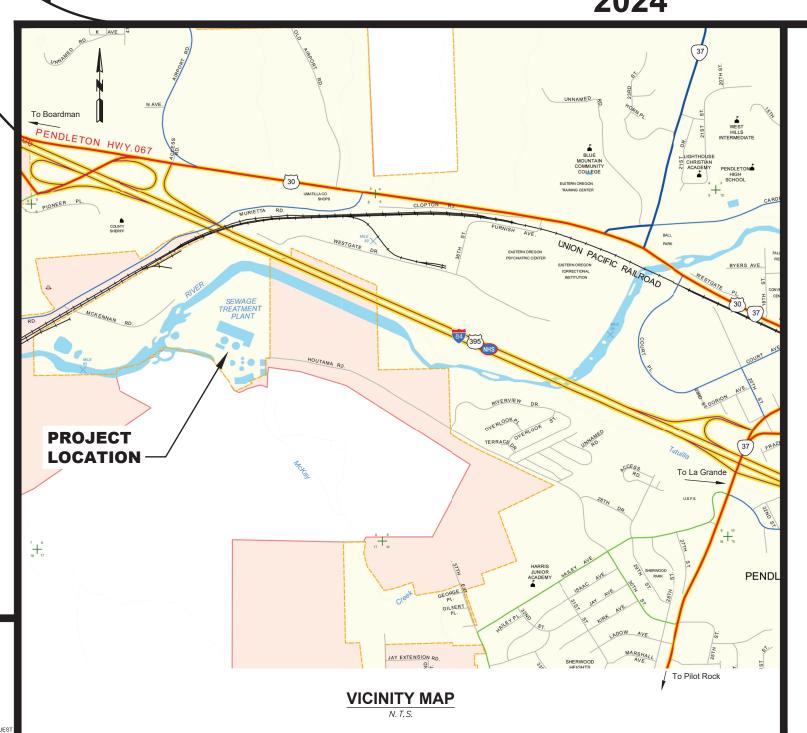


CITY COUNCIL

JOHN H. TURNER, Mayor KEVIN MARTIN CAROLE L. INNES SALLY BRANDSEN McKENNON McDONALD LINDA K. NEUMAN DALE PRIMMER ADDISON SCHULBERG STEVE CAMPBELL

CITY OFFICIALS

BOB PATTERSON, Public Works Director MARK MILNE, Wastewater Superintendent KYLE WILLMAN, WWTRRF Technician



INDEX

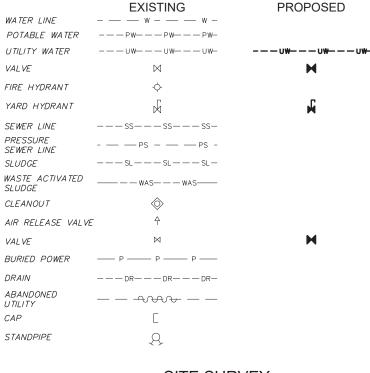
HEET	TITLE	PAGE
	COVER	
-001	LEGEND	1
-101	EXISTING SITE PLAN	2
101	DEMOLITION PLAN	3
301	DEMOLITION SECTION	4
501	DEMOLITION DETAILS	5
101	IMPROVEMENTS PLAN	6
-301	MECHANICAL SECTION	7
-501	FLOOR RELIEF VALVE DETAIL SECTION	8
-502	SLIDE GATE DETAIL PLAN AND SECTIONS	9
501	TYPICAL DETAILS I	10
502	TYPICAL DETAILS II	11
503	TYPICAL DETAILS III	12



COPYRIGHT 2024 BY ANDERSON PERRY & ASSOCIATES, INC.



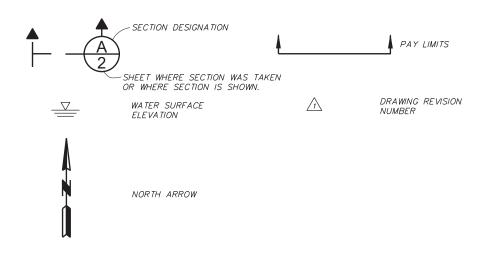
PLAN LEGEND UTILITIES



SITE SURVEY

INDEX CONTOUR	 -750
INTERMEDIATE CONTOUR	-749
CENTERLINE	
CONTROL POINT	FG
SPOT ELEVATION	g 2147.0
BUILDING	

DRAFTING



GENERAL NOTES

- 1. THE EXISTING PIPING AS SHOWN IS BASED UPON INFORMATION PROVIDED BY OTHERS. WHERE KNOWN, ALL EXISTING PIPE MATERIALS ARE CALLED OUT ON THE DRAWINGS. SOME DISCREPANCIES AND OMISSION IN LOCATION, TYPE AND SIZE WILL LIKELY
- 2. CONTRACTOR TO PROVIDE ACCESS TO THE EXISTING PLANT AT ALL TIMES FOR OPERATING PERSONNEL.
- 3. CONTRACTOR IS RESPONSIBLE FOR SITE SECURITY AT ALL TIMES.
- 4. SEE "GENERAL REQUIREMENTS" FOR SEQUENCING OF CONSTRUCTION. ALL SEQUENCING SHALL BE COORDINATED WITH THE OWNER.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL TRADES TO AVOID CONFLICTS BETWEEN PIPING, ELECTRICAL, ETC. WHERE CONFLICTS EXIST BETWEEN PIPING AND ELECTRICAL CONDUITS, THE ELECTRICAL CONDUIT SHALL BE ADJUSTED AS REQUIRED TO AVOID THE CONFLICT.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED EROSION CONTROL PROCEDURES. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY TO CONTROL SITE RUNOFF AND MINIMIZE SEDIMENTATION INTO THE SURROUNDING AREAS, INCLUDING, BUT NOT LIMITED TO SILT FENCING, MULCHING, EROSION CONTROL MATTING, ETC. ANY VIOLATIONS DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE BORNE SOLELY BY THE CONTRACTOR AT NO COST TO THE OWNER.
- 7. THE DESIGN ELEMENTS SHOWN IN THESE DRAWINGS ARE BASED OFF OF AN H40A-HT TOW-BRO CLARIFIER AS MANUFACTURED BY EVOQUA WATER TECHNOLOGIES. IF CONTRACTOR ELECTS TO USE EQUIPMENT BY ANOTHER CLARIFIER MANUFACTURER IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS, THEN CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING DESIGN ELEMENTS AND DETAILS AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. ALL SUCH DEVIATIONS SHALL BE AS APPROVED BY THE CLARIFIER MANUFACTURER AND SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

anderson

CITY OF PENDLETON

WASTEWATER TREATMENT PLANT CLARIFIER REHABILITATION

LEGEND AND GENERAL NOTES

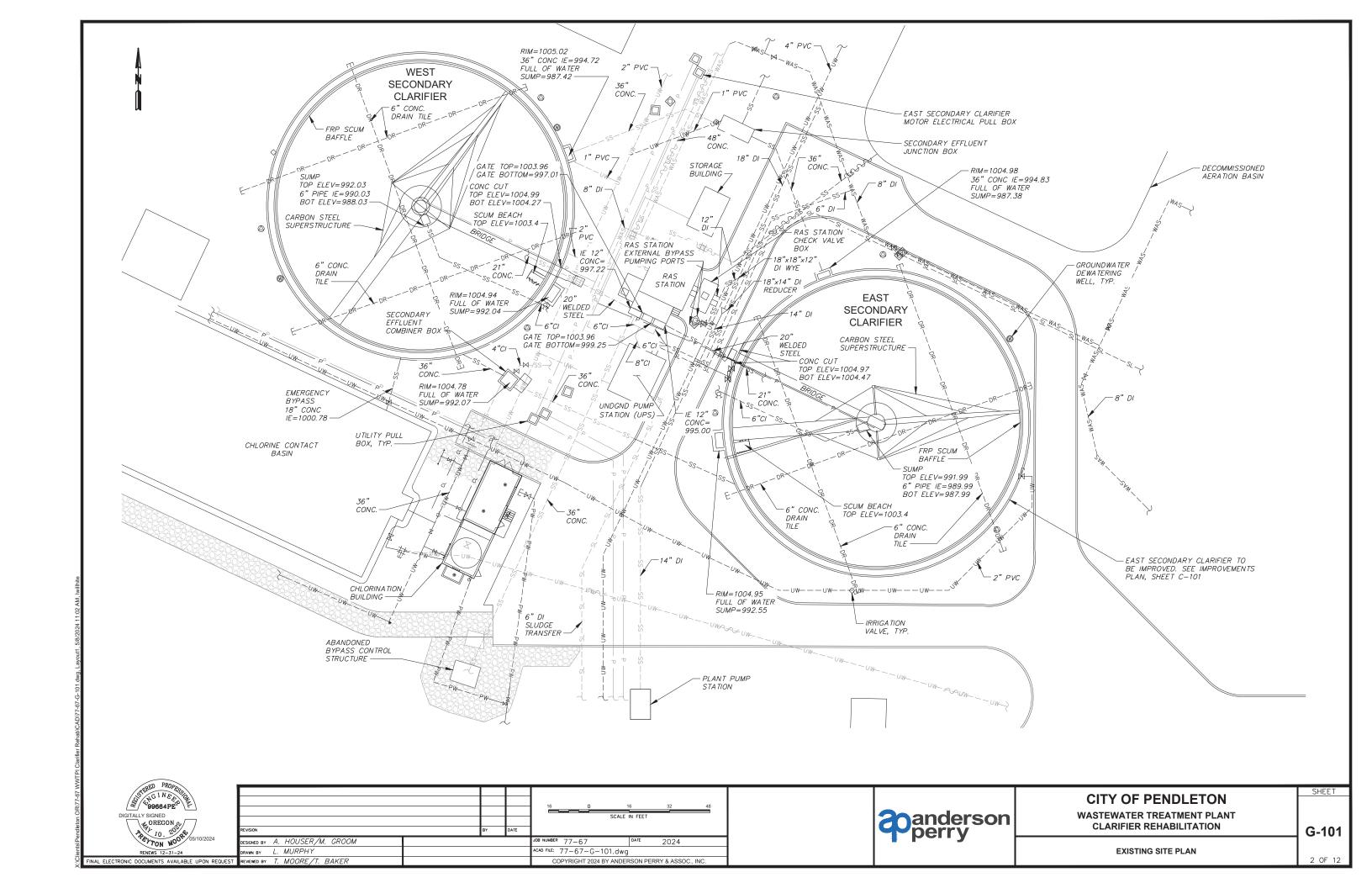
G-001

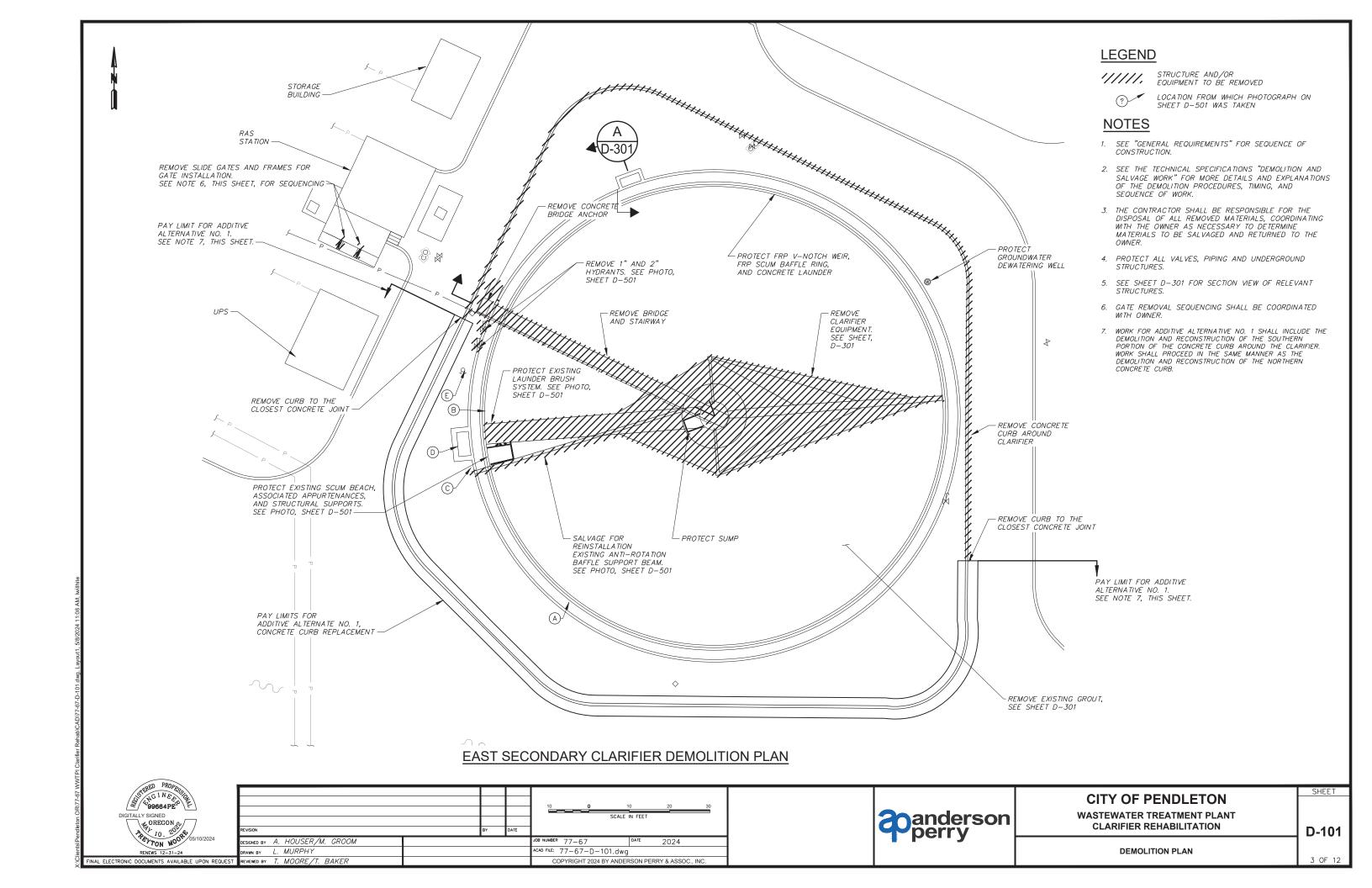
SHEET

1 OF 12

PEYTON MOU AL ELECTRONIC DOCUMENTS AVAILABLE UPON REQUEST

SIGNED BY A. HOUSER/M. GROOM NUMBER 77-67 2024 AWN BY L. MURPHY CAD FILE: 77-67-G-001.dwg REVIEWED BY T. MOORE/T. BAKER COPYRIGHT 2024 BY ANDERSON PERRY & ASSOC., INC.





LEGEND

/////. STRUCTURE AND/OR EQUIPMENT TO BE REMOVED

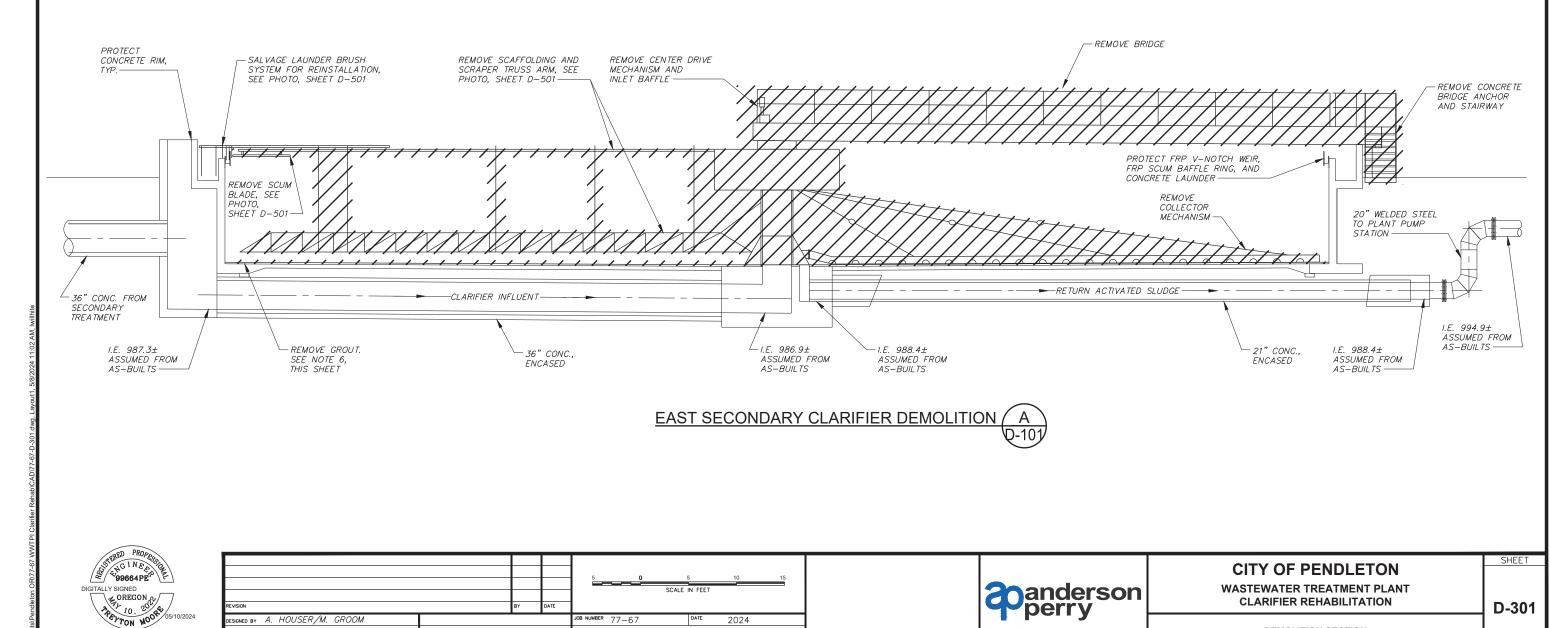
NOTES

- 1. SEE "GENERAL REQUIREMENTS" FOR SEQUENCE OF CONSTRUCTION.
- 2. SEE THE TECHNICAL SPECIFICATIONS "DEMOLITION AND SALVAGE WORK" FOR MORE DETAILS AND EXPLANATIONS OF THE DEMOLITION PROCEDURES, TIMING, AND SEQUENCE OF WORK.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL REMOVED MATERIALS, COORDINATING WITH THE OWNER AS NECESSARY TO DETERMINE MATERIALS TO BE SALVAGED AND RETURNED TO THE OWNER.
- 4. PROTECT EXISTING SCUM BEACH, WITH ASSOCIATED APPURTENANCES AND STRUCTURAL SUPPORTS, NOT SHOWN IN PROFILE.
- 5. PROTECT EXISTING SUMP, NOT SHOWN IN PROFILE.

DEMOLITION SECTION

4 OF 12

6. REMOVE THE EXISTING APPROX. 2" OF GROUT FROM CLARIFIER FLOOR. PROTECT EXISTING CONCRETE FLOOR.



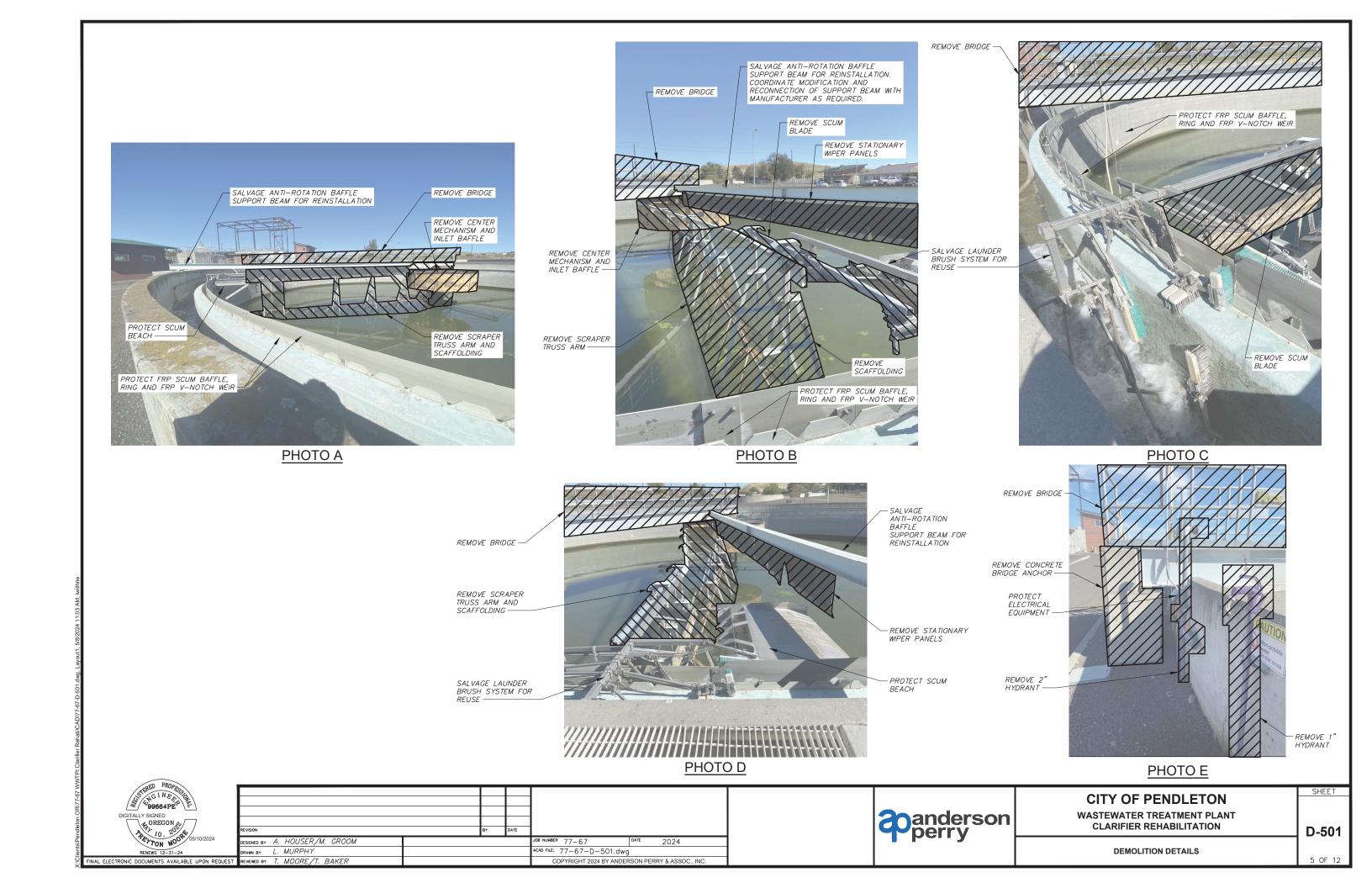
CAD FILE: 77-67-D-301.dwg

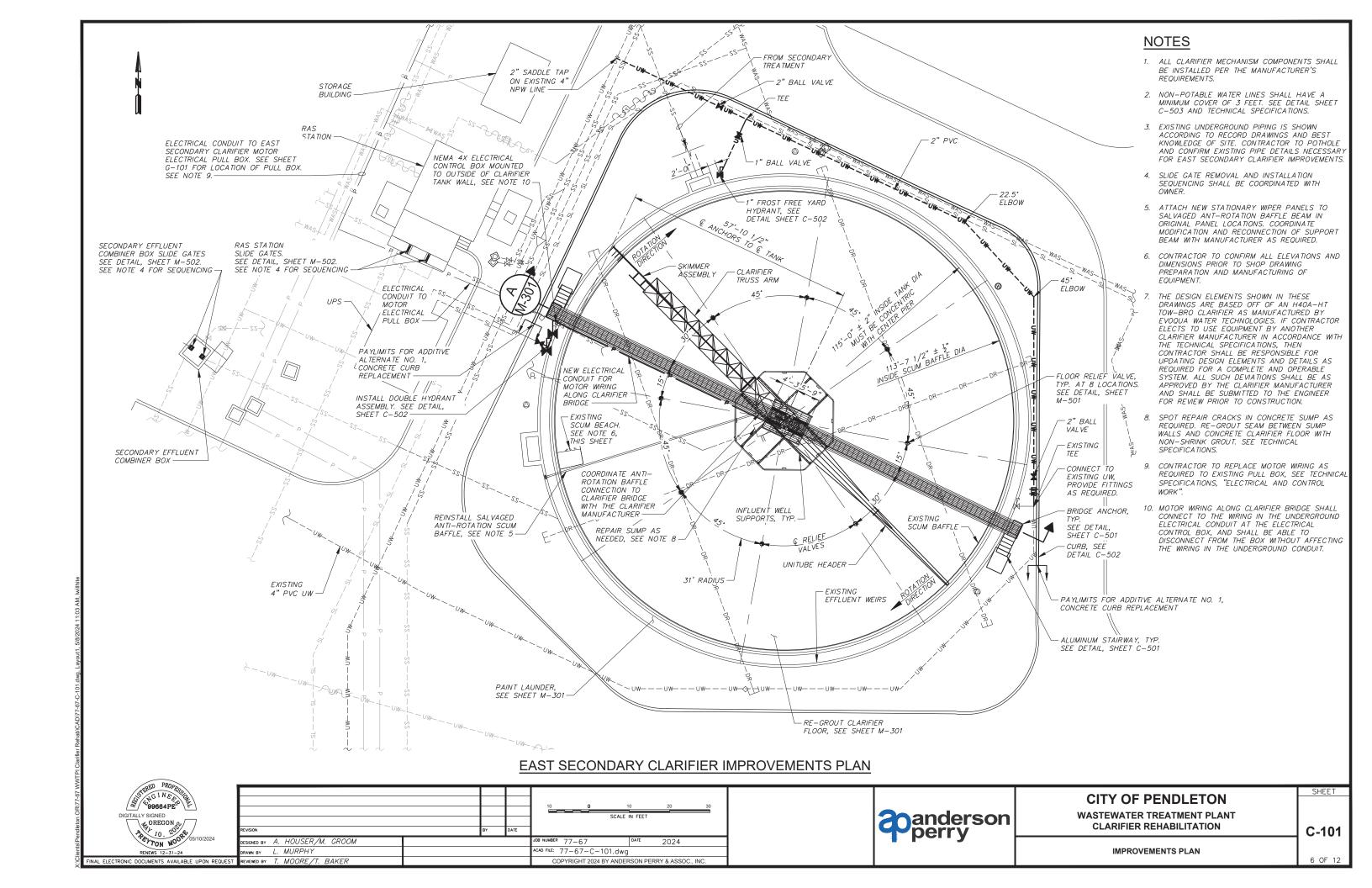
COPYRIGHT 2024 BY ANDERSON PERRY & ASSOC., INC.

L. MURPHY

REVIEWED BY T. MOORE/T. BAKER

AL ELECTRONIC DOCUMENTS AVAILABLE UPON REQUEST





PAINTING SCHEDULE

(SEE TECHNICAL SPECIFICATIONS "PAINTING")

6 COAT SECONDARY CLARIFIER LAUNDER WITH PAINT SYSTEM NO. 6 TO THE DIMENSIONS SHOWN IN THE SECTION VIEW

L. MURPHY

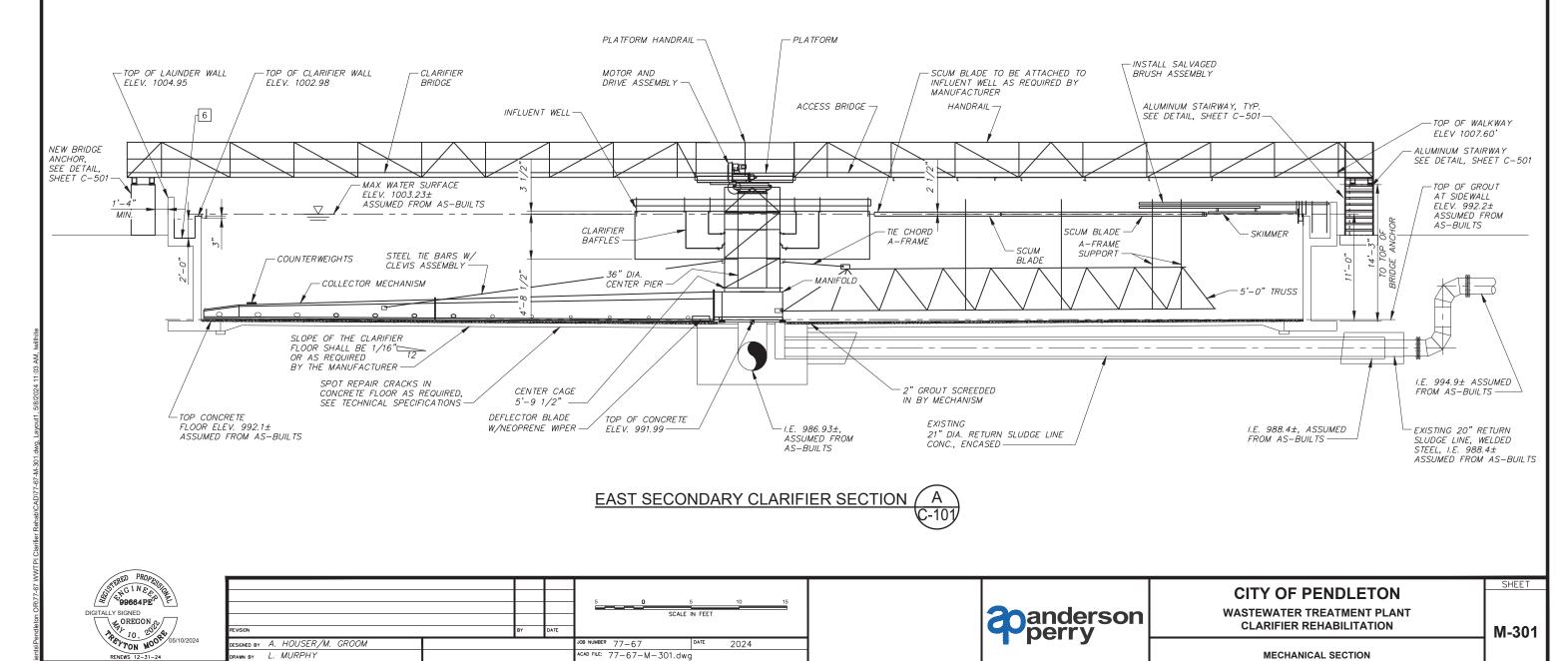
REVIEWED BY T. MOORE/T. BAKER

AL ELECTRONIC DOCUMENTS AVAILABLE UPON REQUES

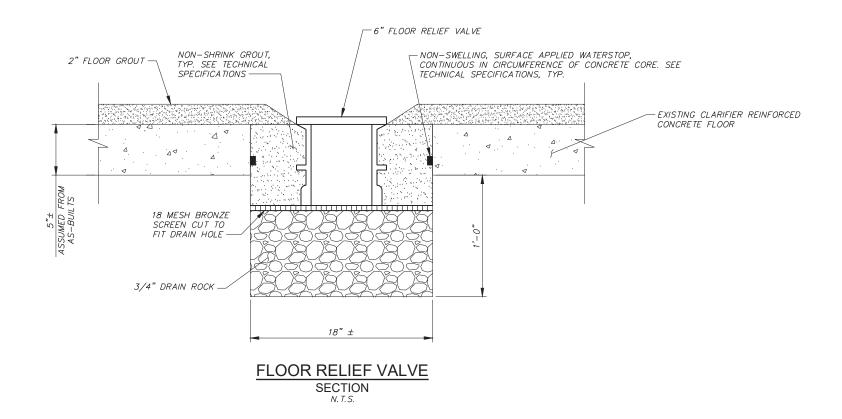
NOTES

- 1. SEE TECHNICAL SPECIFICATIONS "SECONDARY CLARIFIER IMPROVEMENTS" AND "ELECTRICAL AND CONTROL WORK," FOR ADDITIONAL REQUIREMENTS.
- 2. SEE SHEET C-101 FOR PLAN VIEW OF EAST SECONDARY CLARIFIER MECHANICAL DETAILS.
- 3. PIPING BENEATH CLARIFIER SHOWN OUT OF ROTATION FOR CLARITY.
- 4. COORDINATE ANTI-ROTATION BAFFLE CONNECTION TO BRIDGE WITH MANUFACTURER
- 5. ALL CLARIFIER MECHANISM COMPONENTS SHALL BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS.
- 6. THE CARBON STEEL COMPONENTS OF THE SECONDARY CLARIFIER EQUIPMENT SHALL BE HOT DIPPED GALVANIZED.
- 7. CONTRACTOR TO CONFIRM ALL ELEVATIONS AND DIMENSIONS PRIOR TO SHOP DRAWING PREPARATION AND MANUFACTURING OF EQUIPMENT.
- 8. THE DESIGN ELEMENTS SHOWN IN THESE DRAWINGS ARE BASED OFF OF AN H40A-HT TOW-BRO CLARIFIER AS MANUFACTURED BY EVOQUA WATER TECHNOLOGIES. IF CONTRACTOR ELECTS TO USE EQUIPMENT BY ANOTHER CLARIFIER MANUFACTURER IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS, THEN CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING DESIGN ELEMENTS AND DETAILS AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. ALL SUCH DEVIATIONS SHALL BE AS APPROVED BY THE CLARIFIER MANUFACTURER AND SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
- 9. ALL DISSIMILAR METALS SHALL BE GALVANICALLY INSULATED AS REQUIRED.

7 OF 12



COPYRIGHT 2024 BY ANDERSON PERRY & ASSOC., INC.





DESIGNED BY A. HOUSER/M. GROOM DB NUMBER 77-67 2024 ACAD FILE: 77-67-M-501.dwg RAWN BY L. MURPHY NAL ELECTRONIC DOCUMENTS AVAILABLE UPON REQUEST REVIEWED BY T. MOORE/T. BAKER COPYRIGHT 2024 BY ANDERSON PERRY & ASSOC., INC.



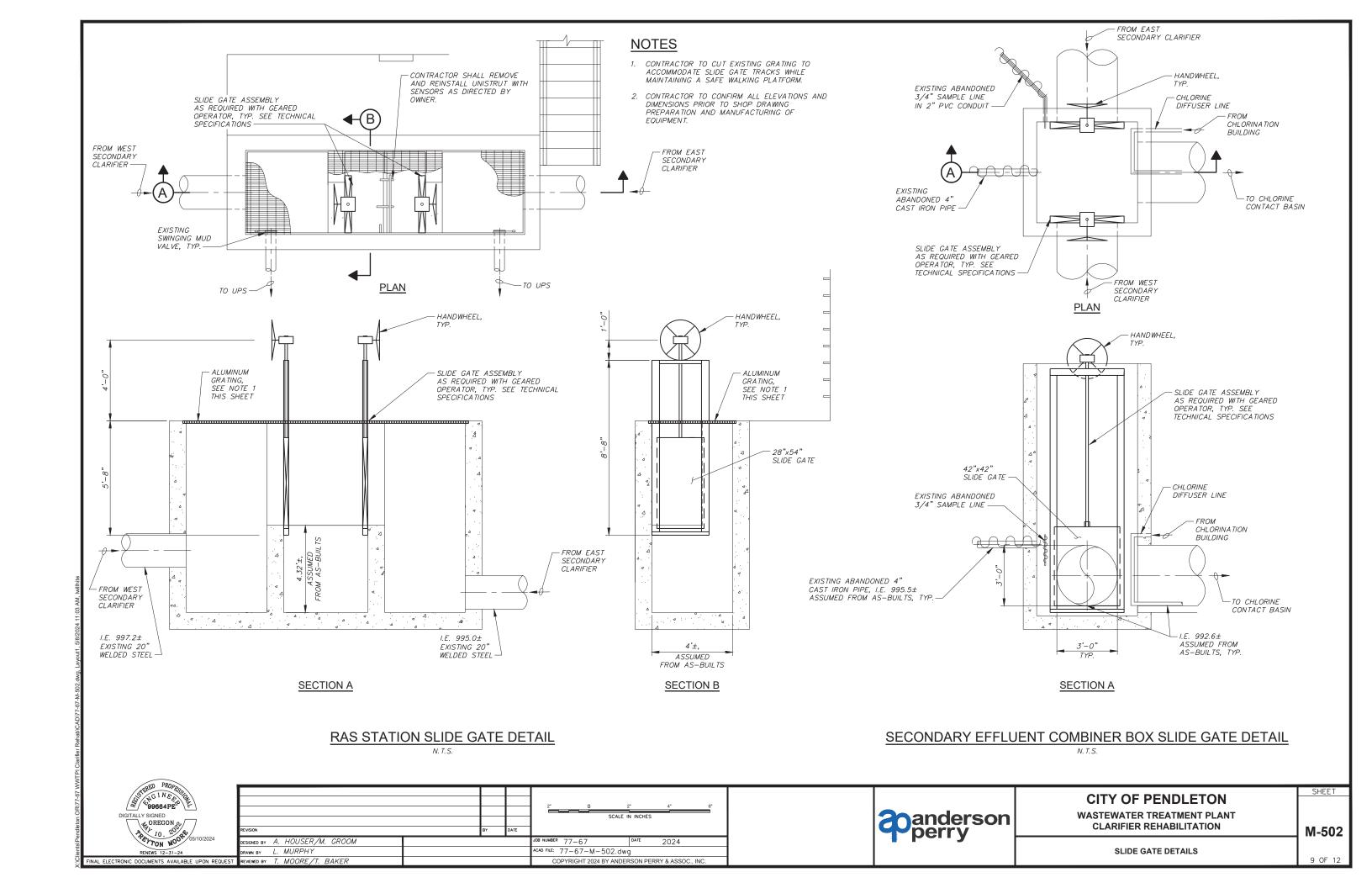
FLOOR RELIEF VALVE DETAIL

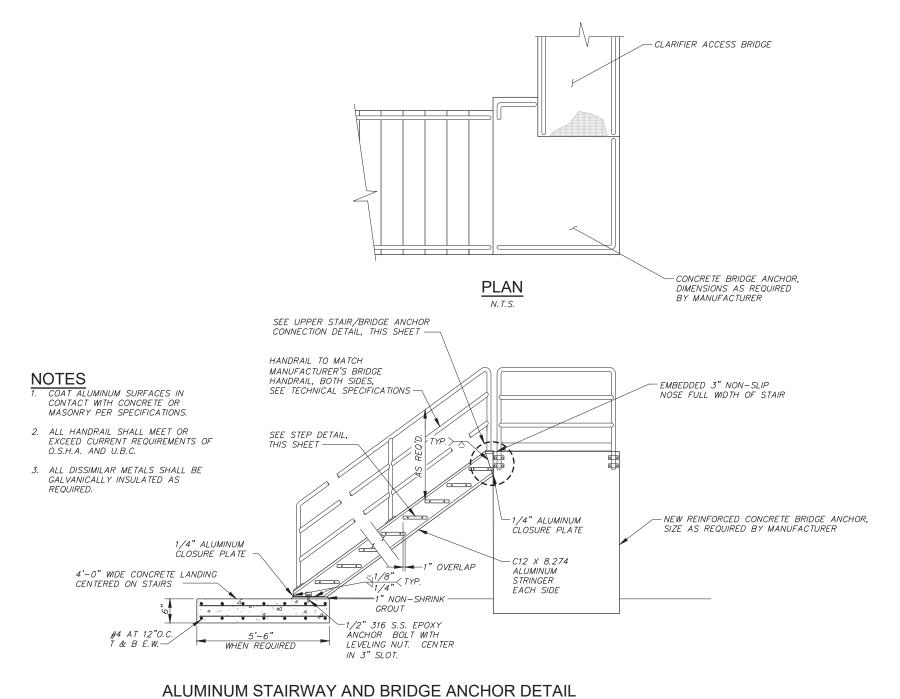
M-501

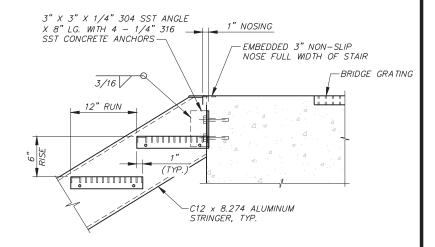
SHEET

8 OF 12

CITY OF PENDLETON WASTEWATER TREATMENT PLANT **CLARIFIER REHABILITATION**

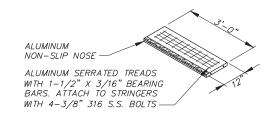






UPPER STAIR/BRIDGE ANCHOR CONNECTION DETAIL

N. T. S.



ALUMINUM STEP DETAIL

<u>A</u>



				1		40	
				0	5	10	15
				SCALE	IN FEET		
REVISION		BY	DATE				
DESIGNED BY A. HOUSER/M. GROOM				JOB NUMBER 77-67	DATE	2024	
DRAWN BY L. MURPHY/C. GILMORE			ACAD FILE: 77-67-C-501.dwg				
REVIEWED BY T. MOORE/T. BAKER				COPYRIGHT 2024 BY ANDERSON PERRY & ASSOC., INC.			
<u> </u>	·			·			



CITY OF PENDLETON
WASTEWATER TREATMENT PLANT

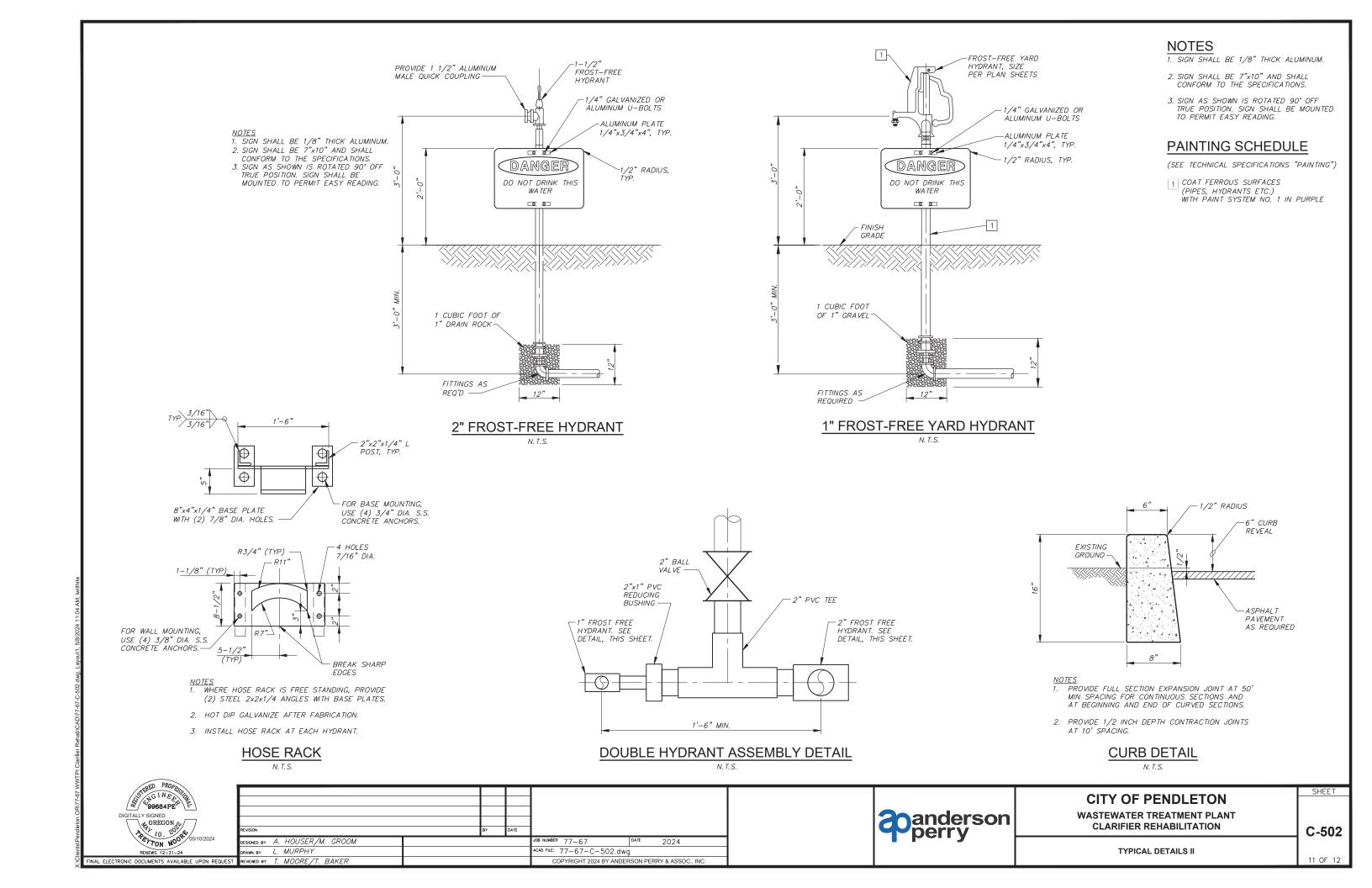
ASTEWATER TREATMENT PLANT CLARIFIER REHABILITATION

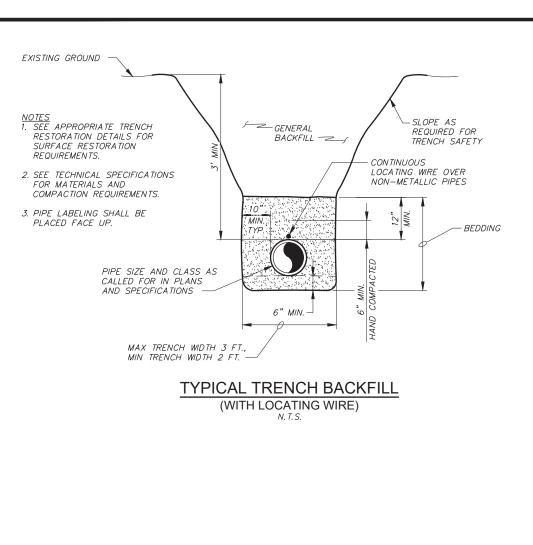
TYPICAL DETAILS I

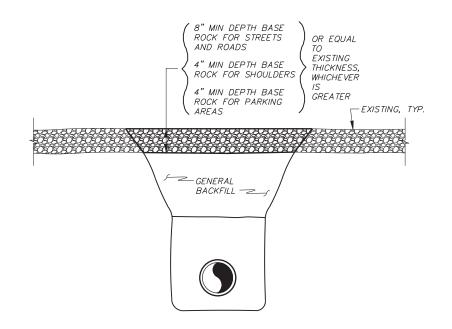
10 OF 12

C-501

SHEET

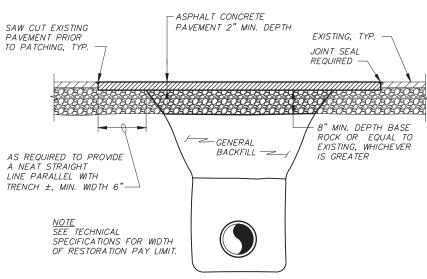






TRENCH RESTORATION **GRAVEL SURFACES**

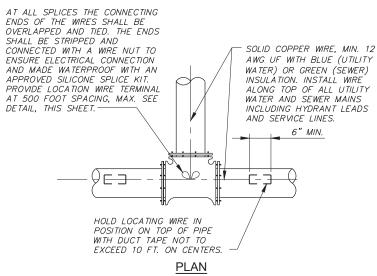
("GRAVEL SURFACE RESTORATION" PAY ITEM)



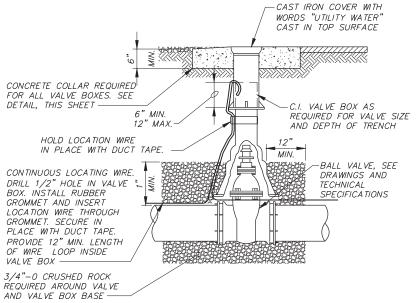
TRENCH RESTORATION

ASPHALT SURFACES

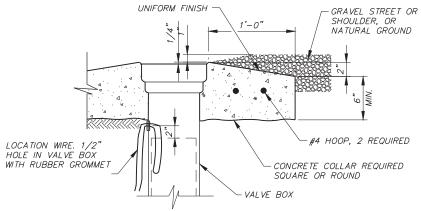
("ASPHALT SURFACE RESTORATION" PAY ITEM)



CONTINUOUS LOCATING WIRE DETAIL



VALVE BOX DETAIL N. T. S.



REQUIREMENTS FOR CONCRETE COLLARS

- 1. CONCRETE: 3/4", 7 SACK, 4000 PSI AT 28 DAYS,
- 2" TO 4" SLUMP, 4-7% AIR.
- COLLAR TO BE FORMED AND UNIFORMLY SHAPED.
- SMOOTH BROOMED FINISH REQUIRED. APPLY CONCRETE CURING COMPOUND. PROTECT FROM TRAFFIC FOR 4 DAYS MIN.

CONCRETE COLLAR DETAIL IN GRAVEL STREETS OR NATURAL GROUND



SIGNED BY A. HOUSER/M. GROOM 77-67 2024 AD FILE: 77-67-C-503.dwg L. MURPHY REVIEWED BY T. MOORE/T. BAKER COPYRIGHT 2024 BY ANDERSON PERRY & ASSOC., INC.



CITY OF PENDLETON

WASTEWATER TREATMENT PLANT CLARIFIER REHABILITATION

TYPICAL DETAILS III

C-503

SHEET

12 OF 12