NORTHERN KENTUCKY WATER DISTRICT KENTON COUNTY, KENTUCKY



TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT IMPROVEMENTS

DRAWINGS FOR: NKWD PROJECT NO. 184-457 DOW LOAN NO. DWL 1014

MARCH 2011

NORTHERN KENTUCKY WATER DISTRICT BOARD OF COMMISSIONERS ANDREW COLLINS _ _ _ _ _ _ _ _ _ _ _ _ CHAIRPERSON DOUG WAGNER _ _ _ _ _ _ _ _ _ VICE CHAIRPERSON FRED MACKE JR. _ _ _ _ SECRETARY JOE KOESTER _____ TREASURER PAT SOMMERKAMP _____COMMISSIONER COMMISSIONER



8600 GOVERNOR'S HILL DRIVE, SUITE 210 CINCINNATI, OH 45249-1388

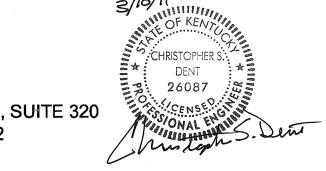


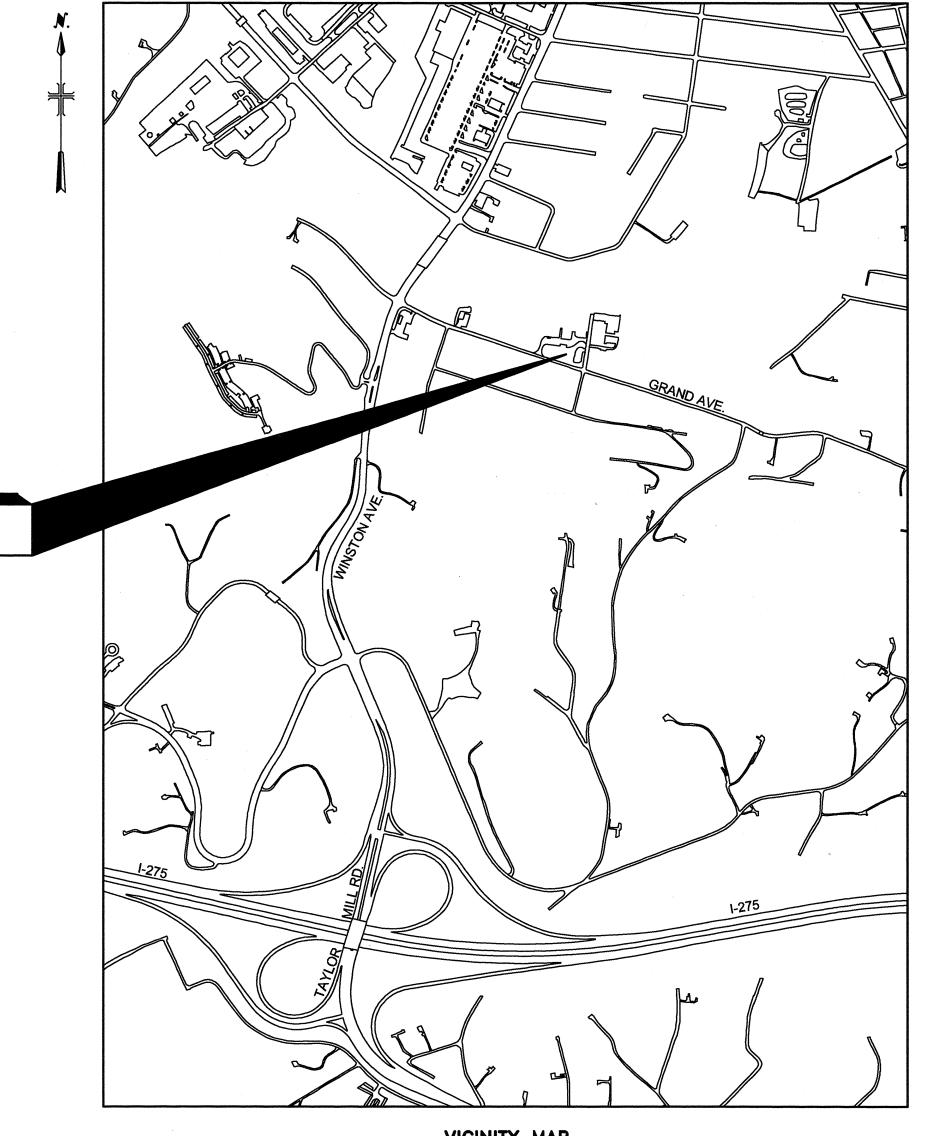






608 GRAND AVENUE TAYLOR MILL, KY 41015





VICINITY MAP NOT TO SCALE

BID SET





615 ELSINORE PLACE, SUITE 320 CINCINNATI, OH 40202

INDEX OF DRAWINGS

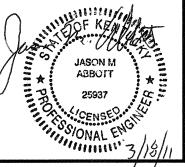
DWG NO	DESCRIPTION
SHEET NO.	GENERAL
G-00-001	COVER
G-00-002	INDEX OF DRAWINGS I
G-00-003 G-00-004	INDEX OF DRAWINGS II NOTES, SYMBOLS, AND ABBREVIATIONS
SHEET NO.	DEMOLITION
D-01-101	SITE DEMOLITION PLAN
D-03-101	EXISTING FLOCCULATION AND SEDIMENTATION DEMO - PLAN
D-03-301	EXISTING FLOCCULATION AND SEDIMENTATION DEMO - SECTIONS I
D-03-302	EXISTING FLOCCULATION AND SEDIMENTATION DEMO - SECTIONS II
D-07-101	RESIDUALS PUMP STATION DEMOLITION - PLANS AND SECTION
D-08-101	FILTER BUILDING PIPE GALLERY - PARTIAL PLANS
D-08-102	FILTER BUILDING PIPE GALLERY - PARTIAL PLANS / UV RELOCATION
D-08-301	FILTER BUILDING PIPE GALLERY - SECTIONS
SHEET NO.	CIVIL
C-00-001	NOTES, SYMBOLS, AND ABBREVIATIONS
C-01-101	SITE LOCATION PLAN
C-01-102	SITE GRADING PLAN
C-01-103	LANDSCAPING PLAN
C-01-104	SITE FENCING PLAN
C-01-105	EROSION CONTROL PLAN
C-01-301	RETAINING WALL PROFILES
C-01-501	SITE DETAILS
C-01-502	EROSION CONTROL DETAILS
C-01-503	LANDSCAPING DETAILS AND NOTES
C-01-504	RETAINING WALL DETAILS
C-02-101	SITE PIPING PLAN
C-02-301	YARD PIPING PROFILES - RAW WATER YARD PIPING PROFILES - FILTER TO WASTE RETURN
C-02-302	YARD PIPING PROFILES - FILTER TO WASTE RETURN YARD PIPING PROFILES - SANITARY AND PRETREATMENT RESIDUALS
C-02-303	YARD PIPING PROFILES - SANITARY AND PRETREATMENT RESIDUALS YARD PIPING PROFILES - PRETREATMENT DRAIN
C-02-304 C-02-305	YARD PIPING PROFILES - FILTER INFLUENT
C-02-306	YARD PIPING PROFILES - FILTER OVERFLOW
C-02-307	YARD PIPING PROFILES - GAC FEED PUMP STATION SUPPLY
C-02-308	YARD PIPING PROFILES - GAC FEED PUMP STATION OVERFLOW
C-02-309	YARD PIPING PROFILES - GAC SUPPLY
C-02-310	YARD PIPING PROFILES - GAC/UV TREATED WATER
C-02-311	YARD PIPING PROFILES - SECONDARY GAC BACKWASH SUPPLY
C-02-312	YARD PIPING - STORM SEWERS
C-02-313	YARD PIPING PROFILES - STORM SEWER PROFILES I
C-02-314	YARD PIPING PROFILES - STORM SEWER PROFILES II
C-02-315	YARD PIPING PROFILES - CHEMICAL FEED
C-10-501	TYPICAL SECTIONS, PAVEMENT, AND HANDRAIL DETAILS
C-10-502	STORM SEWER DETAILS
C-10-503	DETAILS I
C-10-504 C-10-505	DETAILS III
SHEET NO.	MECHANICAL
M-00-001	HYDRAULIC PROFILE
M-00-002	NOTES, SYMBOLS, AND ABBREVIATIONS
M-05-101	GAC FEED PUMP STATION - PLANS AT EL. 524.50 AND EL. 509.00
M-05-102	GAC FEED PUMP STATION - BRIDGECRANE PLAN
M-05-301	GAC FEED PUMP STATION - SECTIONS
M-05-302	GAC FEED PUMP STATION - BRIDGECRANE SECTIONS
M-05-102A	GAC FEED PUMP STATION - ALT. BID No. 1 SKYLIGHT ACCESS
M-06-101	PT / GAC BUILDING PLAN AT EL. 504.00
M-06-102	PT / GAC BUILDING PLAN AT EL. 524.00
M-06-103	PT / GAC BUILDING PLAN AT EL. 537.00
M-06-301	PT / GAC BUILDING SECTIONS I
M-06-302	PT / GAC BUILDING SECTIONS II
M-06-303	PT / GAC BUILDING SECTIONS III PT / GAC BUILDING - EQ BASIN SECTIONS
M-06-304	PT / GAC BUILDING - EQ BASIN SECTIONS PT / GAC BUILDING - GAC SECTIONS I
M-06-305 M-06-306	PT / GAC BUILDING - GAC SECTIONS II
M-06-306 M-06-307	PT / GAC BUILDING - GAC SECTIONS III
M-06-307 M-06-308	PT / GAC BUILDING - GAC SECTIONS IV
	GAC PRESSURE VESSEL SYSTEM - PLANS & SECTIONS DETAIL OPTION 1
1/1-(11/2-1/1)	GAC PRESSURE VESSEL SYSTEM - PLANS & SECTIONS DETAIL OF HOW 1
M-06-501 M-06-502	W. 2224 . 22 22 10 181 . 1 12 21 824 CA CALLEST 1 12 1 844 CA CALLEST 1 12 1 844 CA CALLEST 1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
M-06-502	
	PT / GAC BUILDING - WATER AND AIR SCHEMATIC FILTER BUILDING PIPE GALLERY - PLANS AT EL. 510.46± AND SECTIONS
M-06-502 M-06-601	PT / GAC BUILDING - WATER AND AIR SCHEMATIC

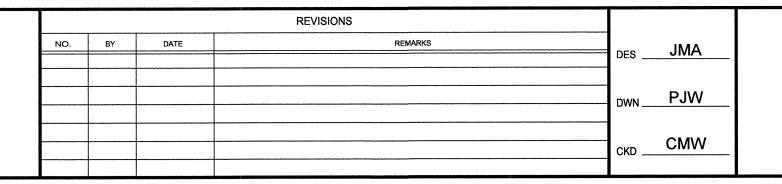
M -09-102	CHEMICAL FEED RELOCATION - PLANS AND SCHEMATICS
M-09-201	CHEMICAL FEED RELOCATION - ELEVATIONS AND SECTIONS I
M-09-202	CHEMICAL FEED RELOCATION - ELEVATIONS AND SECTIONS II
M-10-501	DETAILS I
M-10-502	DETAILS II
M-10-503	DETAILS III
M-10-504	DETAILS IV
SHEET NO.	STRUCTURAL
S-00-001	TYPICAL DETAILS AND GENERAL STRUCTURAL NOTES
S-00-501	TYPICAL DETAILS
S-00-502	GENERATOR PAD AND TOWER / TRANSFORMER PAD PLANS
S-02-101	FTWR METER VAULT AND YARD PIPING FILTER OVERFLOW PLANS
	GAC FEED PUMP STATION - FOUNDATION PLAN
S-05-101	
S-05-102	GAC FEED PUMP STATION - PLAN AT EL. 524.50
S-05-103	GAC FEED PUMP STATION - ROOF FRAMING PLAN
S-05-301	GAC FEED PUMP STATION - SECTIONS
S-05-101A	GAC FEED PUMP STATION - PLAN ALT. BID NO. 1 - SKYLIGHT ACCESS
S-05-102A	GAC FEED PUMP STATION - PLAN ALT. BID NO. 1 - SKYLIGHT ACCESS
S-05-103A	GAC FEED PUMP STATION - ROOF PLAN ALT. BID NO. 1 - SKYLIGHT ACCESS
S-05-301A	GAC FEED PUMP STATION - SECTIONS ALT. BID NO. 1 SKYLIGHT ACCESS
S-06-101	PT/GAC BUILDING - FOUNDATION PLAN AT EL. 524.00
S-06-102	PT/GAC BUILDING - PLAN AT EL. 537.00
S-06-103	PT/GAC BUILDING - ROOFING FRAMING PLAN
S-06-104	PT/GAC BUILDING - PLATFORM FRAMING PLAN
S-06-301	PT/GAC BUILDING - SECTIONS I
S-06-302	PT/GAC BUILDING - SECTIONS II
S-06-303	PT/GAC BUILDING - SECTIONS III
S-06-304	PT/GAC BUILDING - SECTIONS IV
S-06-305	PT/GAC BUILDING - SECTIONS V
S-06-306	PT/GAC BUILDING - SECTIONS VI
S-06-307	PT/GAC BUILDING - SECTIONS VI
	PT/GAC BUILDING - SECTIONS VIII
S-06-308	
S-06-309	PT/GAC BUILDING - SECTIONS IX
S-06-310	PT/GAC BUILDING - SECTIONS X
S-06-311	PT/GAC BUILDING - SECTIONS XI
S-06-312	PT/GAC BUILDING - SECTIONS XII
S-06-313	PT/GAC BUILDING - SECTIONS XIII
S-06-314	PT/GAC BUILDING - SECTIONS XIV
S-08-101	EXISTING FILTER BUILDING - PLAN AT EL. 535.00
S-08-301	EXISTING FILTER BUILDING - SECTIONS I
S-08-302	EXISTING FILTER BUILDING - MEZZANINE - SECTIONS II
0 00 002	
SHEET NO.	ARCHITECTURAL
A-00-001	GENERAL NOTES
	CODE AND LIFE SAFTEY INFORMATION I
A-00-002	
A-00-003	CODE AND LIFE SAFTEY INFORMATION II
	A A MMMM MILLER AMAMALI MAINAMANANIN
A-05-101	GAC FEED PUMP STATION - BRIDGECRANE - PLAN AT EL. 524.50
A-05-101 A-05-102	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN
A-05-102	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN
A-05-102 A-05-201	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I
A-05-102 A-05-201 A-05-202 A-05-301	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS I
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS I GAC FEED PUMP STATION - WALL SECTIONS II
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS I GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS I GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS I GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-202A	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-201A A-05-201A	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS I
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-201A A-05-301A A-05-302A	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS I GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-201A A-05-301A A-05-301A A-05-303A	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-201A A-05-301A A-05-302A	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS I GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS - WALL SECTIONS GAC FEED PUMP STATION - BUILDING DETAILS
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-201A A-05-301A A-05-301A A-05-303A	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-201A A-05-301A A-05-301A A-05-305	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS I GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS - WALL SECTIONS GAC FEED PUMP STATION - BUILDING DETAILS
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-201A A-05-301A A-05-302A A-05-303A A-05-305 A-05-306	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS - WALL SECTIONS GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - ROOF ACCESS LADDER / HATCH
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-201A A-05-301A A-05-302A A-05-305 A-05-306 A-06-102 A-06-103	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS - WALL SECTIONS GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - ROOF ACCESS LADDER / HATCH PT / GAC BUILDING - PLAN EL. AT 524.00
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-202A A-05-301A A-05-302A A-05-303A A-05-305 A-05-306 A-06-102 A-06-103 A-06-104	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS - WALL SECTIONS GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - ROOF ACCESS LADDER / HATCH PT / GAC BUILDING - PLAN EL. AT 524.00 PT / GAC BUILDING - PLAN EL. AT 537.00 PT / GAC BUILDING - PLAN EL. AT 545.66
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-201A A-05-301A A-05-301A A-05-302A A-05-305 A-05-306 A-06-102 A-06-103 A-06-104 A-06-105	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS I GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS - WALL SECTIONS GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - ROOF ACCESS LADDER / HATCH PT / GAC BUILDING - PLAN EL. AT 524.00 PT / GAC BUILDING - PLAN EL. AT 545.66 PT / GAC BUILDING - REFLECTED CEILING PLAN I
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-201A A-05-301A A-05-302A A-05-303A A-05-305 A-05-306 A-06-102 A-06-102 A-06-103 A-06-104 A-06-105 A-06-106	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS I GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS - WALL SECTIONS GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - BOILDING DETAILS GAC FEED PUMP STATION - ROOF ACCESS LADDER / HATCH PT / GAC BUILDING - PLAN EL. AT 524.00 PT / GAC BUILDING - PLAN EL. AT 537.00 PT / GAC BUILDING - REFLECTED CEILING PLAN I PT / GAC BUILDING - REFLECTED CEILING PLAN II
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-201A A-05-301A A-05-301A A-05-302A A-05-305 A-05-306 A-06-102 A-06-103 A-06-104 A-06-105 A-06-106 A-06-107	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - ROOF ACCESS LADDER / HATCH PT / GAC BUILDING - PLAN EL. AT 524.00 PT / GAC BUILDING - PLAN EL. AT 545.66 PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - ROOF PLAN
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-201A A-05-301A A-05-302A A-05-303A A-05-305 A-05-306 A-06-102 A-06-102 A-06-103 A-06-104 A-06-105 A-06-106	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS I GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS - WALL SECTIONS GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - BOILDING DETAILS GAC FEED PUMP STATION - ROOF ACCESS LADDER / HATCH PT / GAC BUILDING - PLAN EL. AT 524.00 PT / GAC BUILDING - PLAN EL. AT 537.00 PT / GAC BUILDING - REFLECTED CEILING PLAN I PT / GAC BUILDING - REFLECTED CEILING PLAN II
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-201A A-05-301A A-05-301A A-05-302A A-05-305 A-05-306 A-06-102 A-06-103 A-06-104 A-06-105 A-06-106 A-06-107	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - ROOF ACCESS LADDER / HATCH PT / GAC BUILDING - PLAN EL. AT 524.00 PT / GAC BUILDING - PLAN EL. AT 545.66 PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - ROOF PLAN
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-201A A-05-301A A-05-301A A-05-301A A-05-302A A-05-305 A-05-306 A-06-102 A-06-102 A-06-103 A-06-104 A-06-105 A-06-106 A-06-107 A-06-201	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS - WALL SECTIONS GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - ROOF ACCESS LADDER / HATCH PT / GAC BUILDING - PLAN EL. AT 537.00 PT / GAC BUILDING - PLAN EL. AT 537.00 PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - ELEVATIONS I
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-202A A-05-301A A-05-303A A-05-305 A-05-306 A-06-102 A-06-103 A-06-104 A-06-105 A-06-106 A-06-107 A-06-201 A-06-202	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS I GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - ROOF ACCESS LADDER / HATCH PT / GAC BUILDING - PLAN EL. AT 524.00 PT / GAC BUILDING - PLAN EL. AT 545.66 PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - ELEVATIONS II
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-202A A-05-301A A-05-303A A-05-305 A-05-306 A-06-102 A-06-102 A-06-103 A-06-104 A-06-105 A-06-107 A-06-201 A-06-201 A-06-202 A-06-301 A-06-302	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS - WALL SECTIONS GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - ROOF ACCESS LADDER / HATCH PT / GAC BUILDING - PLAN EL. AT 524.00 PT / GAC BUILDING - PLAN EL. AT 537.00 PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - ROOF PLAN PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - ROOF PLAN PT / GAC BUILDING - BLEVATIONS II
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-201A A-05-303A A-05-303A A-05-303A A-05-305 A-05-306 A-06-102 A-06-103 A-06-104 A-06-105 A-06-106 A-06-107 A-06-201 A-06-201 A-06-301 A-06-302 A-06-303	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - ROOF ACCESS LADDER / HATCH PT / GAC BUILDING - PLAN EL. AT 524.00 PT / GAC BUILDING - PLAN EL. AT 545.66 PT / GAC BUILDING - PLAN EL. AT 545.66 PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - BLEVATIONS I PT / GAC BUILDING - ELEVATIONS II PT / GAC BUILDING - SECTIONS II
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-202A A-05-301A A-05-302A A-05-303A A-05-305 A-05-306 A-06-102 A-06-102 A-06-103 A-06-104 A-06-105 A-06-105 A-06-107 A-06-201 A-06-201 A-06-202 A-06-301 A-06-302 A-06-303 A-06-304	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS I GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS I GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS - WALL SECTIONS GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - ROOF ACCESS LADDER / HATCH PT / GAC BUILDING - PLAN EL. AT 524.00 PT / GAC BUILDING - PLAN EL. AT 537.00 PT / GAC BUILDING - PLAN EL. AT 545.66 PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - BLEVATIONS II PT / GAC BUILDING - SECTIONS III
A-05-102 A-05-201 A-05-202 A-05-301 A-05-302 A-05-303 A-05-304 A-05-101A A-05-102A A-05-201A A-05-201A A-05-303A A-05-303A A-05-303A A-05-305 A-05-306 A-06-102 A-06-103 A-06-104 A-06-105 A-06-105 A-06-106 A-06-107 A-06-201 A-06-201 A-06-301 A-06-302 A-06-303	GAC FEED PUMP STATION - BRIDGECRANE - ROOF PLAN GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS I GAC FEED PUMP STATION - BRIDGECRANE - ELEVATIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - BRIDGECRANE - SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - WALL SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS PLAN AT EL. 524.50 GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ROOF PLAN GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS ELEVATIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - ALT. NO. 1 SKYLIGHT ACCESS SECTIONS II GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - BUILDING DETAILS GAC FEED PUMP STATION - ROOF ACCESS LADDER / HATCH PT / GAC BUILDING - PLAN EL. AT 524.00 PT / GAC BUILDING - PLAN EL. AT 545.66 PT / GAC BUILDING - PLAN EL. AT 545.66 PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - REFLECTED CEILING PLAN II PT / GAC BUILDING - BLEVATIONS I PT / GAC BUILDING - ELEVATIONS II PT / GAC BUILDING - SECTIONS II

A-06-307	PT / GAC BUILDING - WALL SECTIONS IV
A-06-308	PT / GAC BUILDING - ROOF DETAILS I
A-06-309	PT / GAC BUILDING - ROOF DETAILS II
A-06-310	PT / GAC BUILDING - ROOF DETAILS III
A-06-311	PT / GAC BUILDING - DOOR CANOPY TYIPCAL DETAILS
A-06-401	PT / GAC BUILDING - ENLARGED FLOOR PLAN
A-06-402	PT / GAC BUILDING - ENLARGED SECTION / FLOOR PLAN I
A-06-403	PT / GAC BUILDING - ENLARGED SECTION / FLOOR PLAN II
A-06-404	PT / GAC BUILDING - ENLARGED SECTION / FLOOR PLAN III
A-06-405	PT / GAC BUILDING - INTERIOR ELEVATIONS I
A-06-406	PT / GAC BUILDING - INTERIOR ELEVATIONS II
A-06-407	PT / GAC BUILDING - ENLARGED FLOOR PLAN / DETIALS
A-06-601	PT / GAC BUILDING - ROOM FINISH SCHEDULE FILTER BUILDING - DEMOLITION PLAN AT EL. 525.50
A-08-101 A-08-102	FILTER BUILDING - DEMOLITION PLAN AT EL. 525.50 FILTER BUILDING - DEMOLITION PLAN AT EL. 535.00
A-08-102 A-08-103	FILTER BUILDING - DEMOLITION PLAN AT EL. 535.00
A-08-104	FILTER BUILDING - NEW CONSTR. PLAN AT EL. 525.50
A-08-105	FILTER BUILDING - NEW CONSTR. PLAN AT EL. 535.00
A-08-106	FILTER BUILDING - NEW CONSTR. PLAN AT EL. 535.00
A-08-107	FILTER BUILDING - NEW CONSTRUCTION ROOF PLAN
A-08-201	FILTER BUILDING - DEMOLITION ELEVATIONS / SECTIONS
A-08-202	FILTER BUILDING - NEW CONSTRUCTION ELEVATIONS
A-08-301	FILTER BUILDING - NEW CONSTRUCTION SECTIONS
A-08-302	FILTER BUILDING - NEW CONSTRUCTION WALL SECTIONS
A-08-303	FILTER BUILDING - ROOF / WALL DETAILS
A-08-401	FILTER BUILDING - ENLARGED SECTION / FLOOR PLAN I
A-08-402	FILTER BUILDING - ENLARGED SECTION / FLOOR PLAN II
A-09-101	CHEMICAL BUILDING - DEMO / NEW CONSTRUCTION PLANS AT EL. 521.80
A-09-102	CHEMICAL BUILDING - DEMO / NEW CONSTRUCTION ROOF PLAN
A-09-201	CHEMICAL BUILDING - NEW CONSTRUCTION ELEVATIONS
A-09-301	CHEMICAL BUILDING - DEMOLITION SECTION
A-09-302	CHEMICAL BUILDING - NEW CONSTRUCTION SECTIONS
A-09-303	CHEMICAL BUILDING - ROOF / WALL DETAILS
A-10-501	DOOR / TRANSLUCENT PANEL TYPICAL DETAILS I
A-10-502	DOOR / TRANSLUCENT PANEL TYPICAL DETAILS II
A-10-503	DOOR / TRANSLUCENT PANEL TYPICAL DETAILS III
A-10-504	DOOR / TRANSLUCENT PANEL TYPICAL DETAILS IV
A-10-505	DOOR / TRANSLUCENT PANEL TYPICAL DETAILS V
A-10-511	WINDOW / TRANSLUCENT PANEL TYPICAL DETAILS I
A-10-512	WINDOW / TRANSLUCENT PANEL TYPICAL DETAILS II
A-10-513	WINDOW / TRANSLUCENT PANEL TYPICAL DETAILS III
A-10-514	WINDOW / TRANSLUCENT PANEL TYPICAL DETAILS IV
A-10-521	LOUVER HEAD/JAMB/SILL TYPICAL DETAILS I
A-10-522	LOUVER HEAD/JAMB/SILL TYPICAL DETAILS II
A-10-531	PRECAST PROFILES I
A-10-532	PRECAST PROFILES II
A-10-533	PRECAST PROFILES III
A-10-534	PRECAST PROFILES IV
A-10-535	PRECAST PROFILES V
A-10-541	ROOF DECK RAILING TYPICAL DETAILS I
A-10-542	DOOR AND FRAMING ELEVATIONS / DOOR SCHEDULE
A-10-601 A-10-602	WINDOW ELEVATIONS / GLAZING SCHEDULE
A-10-603	WINDOW ELEVATIONS / GLAZING SCHEDOLE
A-10-003	
SHEET NO.	HVAC
H-00-001	NOTES, SYMBOLS, AND ABBREVIATIONS
H-00-002	GENERAL NOTES
H-00-601	HVAC SCHEDULES I
H-00-602	HVAC SCHEDULES II
H-00-701	HVAC CONTROLS - DESICCANT DEHUMIDIFIER SYSTEM
H-05-101	GAC FEED PUMP STATION - BRIDGECRANE - HVAC PLAN
H-05-102	GAC FEED PUMP STATION - BRIDGECRANE - ROOF HVAC PLAN
H-05-101A	GAC FEED PUMP STATION - HVAC PLAN ALT BID NO.1 - SKYLIGHT ACCESS
H-05-102A	GAC FEED PUMP STATION - HVAC ROOF ALT BID NO.1 - SKYLIGHT ACCESS
H-06-101	PT/GAC BUILDING - HVAC PLAN AT EL. 524.00
	PT/GAC BUILDING - HVAC PLAN AT EL. 537.00
H-06-102	DT/OAC DUIL DING LINAS OF OTONIO
H-06-102 H-06-301	PT/GAC BUILDING - HVAC SECTIONS
	PT/GAC BUILDING - HVAC SECTIONS PT/GAC BUILDING - ENLARGED HVAC PLANS I
H-06-301	
H-06-301 H-06-401	PT/GAC BUILDING - ENLARGED HVAC PLANS I
H-06-301 H-06-401 H-06-402	PT/GAC BUILDING - ENLARGED HVAC PLANS I PT/GAC BUILDING - ENLARGED HVAC PLANS II
H-06-301 H-06-401 H-06-402 H-08-101	PT/GAC BUILDING - ENLARGED HVAC PLANS I PT/GAC BUILDING - ENLARGED HVAC PLANS II PARTIAL FILTER BUILDING AND TUNNEL - HVAC PLANS AT EL. 510.46
H-06-301 H-06-401 H-06-402 H-08-101 H-08-102	PT/GAC BUILDING - ENLARGED HVAC PLANS I PT/GAC BUILDING - ENLARGED HVAC PLANS II PARTIAL FILTER BUILDING AND TUNNEL - HVAC PLANS AT EL. 510.46 FILTER BUILDING PUMP ROOM - HVAC PLANS AT EL. 525.50 FILTER BUILDING MEZZANINE - HVAC PLANS AT EL. 535.00 FILTER BUILDING THIRD FLOOR AND PARTIAL ROOF HVAC PLANS
H-06-301 H-06-401 H-06-402 H-08-101 H-08-102 H-08-103	PT/GAC BUILDING - ENLARGED HVAC PLANS I PT/GAC BUILDING - ENLARGED HVAC PLANS II PARTIAL FILTER BUILDING AND TUNNEL - HVAC PLANS AT EL. 510.46 FILTER BUILDING PUMP ROOM - HVAC PLANS AT EL. 525.50 FILTER BUILDING MEZZANINE - HVAC PLANS AT EL. 535.00 FILTER BUILDING THIRD FLOOR AND PARTIAL ROOF HVAC PLANS CHEMICAL BUILDING WALKWAY - HVAC PLANS
H-06-301 H-06-401 H-06-402 H-08-101 H-08-102 H-08-103 H-08-104 H-09-101 H-10-501	PT/GAC BUILDING - ENLARGED HVAC PLANS I PT/GAC BUILDING - ENLARGED HVAC PLANS II PARTIAL FILTER BUILDING AND TUNNEL - HVAC PLANS AT EL. 510.46 FILTER BUILDING PUMP ROOM - HVAC PLANS AT EL. 525.50 FILTER BUILDING MEZZANINE - HVAC PLANS AT EL. 535.00 FILTER BUILDING THIRD FLOOR AND PARTIAL ROOF HVAC PLANS CHEMICAL BUILDING WALKWAY - HVAC PLANS HVAC DETAILS I
H-06-301 H-06-401 H-06-402 H-08-101 H-08-102 H-08-103 H-08-104 H-09-101	PT/GAC BUILDING - ENLARGED HVAC PLANS I PT/GAC BUILDING - ENLARGED HVAC PLANS II PARTIAL FILTER BUILDING AND TUNNEL - HVAC PLANS AT EL. 510.46 FILTER BUILDING PUMP ROOM - HVAC PLANS AT EL. 525.50 FILTER BUILDING MEZZANINE - HVAC PLANS AT EL. 535.00 FILTER BUILDING THIRD FLOOR AND PARTIAL ROOF HVAC PLANS CHEMICAL BUILDING WALKWAY - HVAC PLANS









NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT

ADVANCED TREATMENT **IMPROVEMENTS**

GENERAL INDEX OF DRAWINGS I SCALE: NO SCALE

ISSUED STATUS: BID SET MARCH, 2011 G-00-002

CAD REF. NO. <u>G-00-002</u>

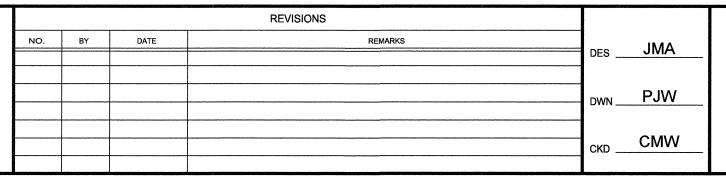
INDEX OF DRAWINGS

SHEET NO.	PLUMBING
P-00-001	LEGEND AND GENERAL NOTES
P-05-101	GAC FEED PUMP STATION - PLUMBING PLAN AND SCHEMATICS
P-06-101	PT/GAC BUILDING - PLUMBING PLAN AT EL. 524.00
P-06-102	PT/GAC BUILDING - PLUMBING PLAN AT EL. 537.00
P-06-401	PT/GAC BUILDING - ENLARGED PLUMBING PLANS
P-06-601	PT/GAC BUILDING - PLUMBING SCHEMATICS I
P-06-602	PT/GAC BUILDING - PLUMBING SCHEMATICS II
P-08-101	PARTIAL FILTER BLDG AND TUNNEL - PLUMBING PLANS AND SCHEMATICS
P-09-101	CHEMICAL BUILDING WALKWAY - PLUMBING PLANS AND SCHEMATICS
P-10-501	PLUMBING DETAILS
P-10-601	PLUMBING SCHEDULES
SHEET NO.	FIRE PROTECTION
FP-08-101	PARTIAL FILTER BLDG AND TUNNEL FIRE PROTECTION PLANS
FP-09-101	CHEMICAL BUILDING WALKWAY FIRE PROTECTION PLANS
SHEET NO.	INSTRUMENTATION
I-00-001	LEGEND, SYMBOLS, AND ABBREVIATIONS
I-00-002	CONTROL AND SECURITY SYSTEM ARCHITECTURE
I-00-003	DEVICENET NETWORK DETAILS
I-00-004	GAC CONTROL PANEL DETAIL
I-00-005	GPS/PT CONTROL PANEL DETAIL
I-05-601	GAC FEED PUMP STATION - PROCESS AND INSTRUMENTATION DIAGRAM
I-06-601	PRELIMINARY TREATMENT BUILDING - PROCESS AND INSTRUMENTATION DIAGRAM I
I-06-602	PRELIMINARY TREATMENT BUILDING - PROCESS AND INSTRUMENTATION DIAGRAM II
I-06-603	GAC BACKWASH SYSTEM - PROCESS AND INSTRUMENTATION DIAGRAM
I-06-604	GAC VESSELS - PROCESS AND INSTRUMENTATION DIAGRAM
I-06-605	UV RELOCATION - PROCESS AND INSTRUMENTATION DIAGRAM
I-06-606	GAC EQUALIZATION BASIN - PROCESS AND INSTRUMENTATION DIAGRAM
I-10-501	INSTRUMENTATION DETAILS I
I-10-502	INSTRUMENTATION DETAILS II
SHEET NO.	ELECTRICAL
E-00-001	SYMBOLS AND ABBREVIATIONS
E-00-601	POWER SYSTEM - ONE LINE DIAGRAM I
E-00-602	PT/GAC BUILDING - ONE LINE DIAGRAM II
E-00-603	PT/GAC BUILDING - ONE LINE DIAGRAM III
E-00-604	PT/GAC BUILDING - CONTROL CIRCUITS I
E-00-605	PT/GAC BUILDING - CONTROL CIRCUITS II
E-00-606	PT/GAC BUILDING - CONTROL CIRCUITS III
E-00-607	PT/GAC BUILDING - CONTROL CIRCUITS IV
E-00-608	HIGH SERVICE PUMP CONTROL CIRCUITS I
E-00-609	HIGH SERVICE PUMP CONTROL CIRCUITS II
E-00-610	PANELBOARD SCHEDULES I
E-00-611	PANELBOARD SCHEDULES II .
E-00-612	PANELBOARD SCHEDULES III
E-00-613	LIGHT FIXTURE SCHEDULE
E-02-101	SITE DEMOLITION PLAN
E 00 400	OFF DIAM
E-02-102	SITE PLAN
E-02-102 E-04-101	PARTIAL FILTER BLDG AND TUNNEL ELECTRICAL PLANS AND SCHEMATICS
E-04-101	PARTIAL FILTER BLDG AND TUNNEL ELECTRICAL PLANS AND SCHEMATICS GAC FEED PUMP STATION - LIGHTING PLAN GAC FEED PUMP STATION - LOW VOLTAGE POWER PLAN
E-04-101 E-05-101	PARTIAL FILTER BLDG AND TUNNEL ELECTRICAL PLANS AND SCHEMATICS GAC FEED PUMP STATION - LIGHTING PLAN GAC FEED PUMP STATION - LOW VOLTAGE POWER PLAN GAC FEED PUMP STATION - LIGHTNING PROTECTION PLAN
E-04-101 E-05-101 E-05-102	PARTIAL FILTER BLDG AND TUNNEL ELECTRICAL PLANS AND SCHEMATICS GAC FEED PUMP STATION - LIGHTING PLAN GAC FEED PUMP STATION - LOW VOLTAGE POWER PLAN
E-04-101 E-05-101 E-05-102 E-05-103	PARTIAL FILTER BLDG AND TUNNEL ELECTRICAL PLANS AND SCHEMATICS GAC FEED PUMP STATION - LIGHTING PLAN GAC FEED PUMP STATION - LOW VOLTAGE POWER PLAN GAC FEED PUMP STATION - LIGHTNING PROTECTION PLAN
E-04-101 E-05-101 E-05-102 E-05-103 E-05-101A	PARTIAL FILTER BLDG AND TUNNEL ELECTRICAL PLANS AND SCHEMATICS GAC FEED PUMP STATION - LIGHTING PLAN GAC FEED PUMP STATION - LOW VOLTAGE POWER PLAN GAC FEED PUMP STATION - LIGHTNING PROTECTION PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTING PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LV POWER PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTNING PROTECTION
E-04-101 E-05-101 E-05-102 E-05-103 E-05-101A E-05-102A	PARTIAL FILTER BLDG AND TUNNEL ELECTRICAL PLANS AND SCHEMATICS GAC FEED PUMP STATION - LIGHTING PLAN GAC FEED PUMP STATION - LOW VOLTAGE POWER PLAN GAC FEED PUMP STATION - LIGHTNING PROTECTION PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTING PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LV POWER PLAN
E-04-101 E-05-101 E-05-102 E-05-101A E-05-102A E-05-103A	PARTIAL FILTER BLDG AND TUNNEL ELECTRICAL PLANS AND SCHEMATICS GAC FEED PUMP STATION - LIGHTING PLAN GAC FEED PUMP STATION - LOW VOLTAGE POWER PLAN GAC FEED PUMP STATION - LIGHTNING PROTECTION PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTING PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LV POWER PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTNING PROTECTION
E-04-101 E-05-101 E-05-102 E-05-101A E-05-102A E-05-103A E-05-104	PARTIAL FILTER BLDG AND TUNNEL ELECTRICAL PLANS AND SCHEMATICS GAC FEED PUMP STATION - LIGHTING PLAN GAC FEED PUMP STATION - LOW VOLTAGE POWER PLAN GAC FEED PUMP STATION - LIGHTNING PROTECTION PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTING PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LV POWER PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTNING PROTECTION GAC FEED PUMP STATION - MEDIUM VOLTAGE POWER PLAN
E-04-101 E-05-101 E-05-102 E-05-103 E-05-101A E-05-102A E-05-103A E-05-104 E-06-101	PARTIAL FILTER BLDG AND TUNNEL ELECTRICAL PLANS AND SCHEMATICS GAC FEED PUMP STATION - LIGHTING PLAN GAC FEED PUMP STATION - LOW VOLTAGE POWER PLAN GAC FEED PUMP STATION - LIGHTNING PROTECTION PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTING PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LV POWER PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTNING PROTECTION GAC FEED PUMP STATION - MEDIUM VOLTAGE POWER PLAN PT/GAC BUILDING - LIGHTING PLAN AT EL. 524.00
E-04-101 E-05-101 E-05-102 E-05-101A E-05-102A E-05-103A E-05-104 E-06-101 E-06-102	PARTIAL FILTER BLDG AND TUNNEL ELECTRICAL PLANS AND SCHEMATICS GAC FEED PUMP STATION - LIGHTING PLAN GAC FEED PUMP STATION - LIGHTNING PROTECTION PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTING PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LV POWER PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTNING PROTECTION GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTNING PROTECTION GAC FEED PUMP STATION - MEDIUM VOLTAGE POWER PLAN PT/GAC BUILDING - LIGHTING PLAN AT EL. 524.00 PT/GAC BUILDING - LIGHTING PLAN AT EL. 537.00
E-04-101 E-05-101 E-05-102 E-05-103 E-05-101A E-05-102A E-05-103A E-05-104 E-06-101 E-06-102 E-06-103	PARTIAL FILTER BLDG AND TUNNEL ELECTRICAL PLANS AND SCHEMATICS GAC FEED PUMP STATION - LIGHTING PLAN GAC FEED PUMP STATION - LOW VOLTAGE POWER PLAN GAC FEED PUMP STATION - LIGHTNING PROTECTION PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTING PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LV POWER PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTNING PROTECTION GAC FEED PUMP STATION - MEDIUM VOLTAGE POWER PLAN PT/GAC BUILDING - LIGHTING PLAN AT EL. 524.00 PT/GAC BUILDING - ELECTRICAL PLANS AT EL. 504.00
E-04-101 E-05-101 E-05-102 E-05-103 E-05-101A E-05-102A E-05-103A E-06-101 E-06-101 E-06-102 E-06-103 E-06-104	PARTIAL FILTER BLDG AND TUNNEL ELECTRICAL PLANS AND SCHEMATICS GAC FEED PUMP STATION - LIGHTING PLAN GAC FEED PUMP STATION - LOW VOLTAGE POWER PLAN GAC FEED PUMP STATION - LIGHTNING PROTECTION PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTING PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LV POWER PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTNING PROTECTION GAC FEED PUMP STATION - MEDIUM VOLTAGE POWER PLAN PT/GAC BUILDING - LIGHTING PLAN AT EL. 524.00 PT/GAC BUILDING - ELECTRICAL PLANS AT EL. 504.00 PT/GAC BUILDING - POWER PLAN AT EL. 524.00
E-04-101 E-05-101 E-05-102 E-05-103 E-05-101A E-05-102A E-05-103A E-06-101 E-06-102 E-06-103 E-06-104 E-06-105	PARTIAL FILTER BLDG AND TUNNEL ELECTRICAL PLANS AND SCHEMATICS GAC FEED PUMP STATION - LIGHTING PLAN GAC FEED PUMP STATION - LOW VOLTAGE POWER PLAN GAC FEED PUMP STATION - LIGHTNING PROTECTION PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTING PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LV POWER PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTNING PROTECTION GAC FEED PUMP STATION - MEDIUM VOLTAGE POWER PLAN PT/GAC BUILDING - LIGHTING PLAN AT EL. 524.00 PT/GAC BUILDING - ELECTRICAL PLANS AT EL. 504.00 PT/GAC BUILDING - POWER PLAN AT EL. 524.00 PT/GAC BUILDING - POWER PLAN AT EL. 524.00 PT/GAC BUILDING - POWER PLAN AT EL. 537.00
E-04-101 E-05-101 E-05-102 E-05-103 E-05-101A E-05-102A E-05-103A E-06-101 E-06-102 E-06-103 E-06-104 E-06-105 E-06-106	PARTIAL FILTER BLDG AND TUNNEL ELECTRICAL PLANS AND SCHEMATICS GAC FEED PUMP STATION - LIGHTING PLAN GAC FEED PUMP STATION - LOW VOLTAGE POWER PLAN GAC FEED PUMP STATION - LIGHTNING PROTECTION PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTING PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LV POWER PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTNING PROTECTION GAC FEED PUMP STATION - MEDIUM VOLTAGE POWER PLAN PT/GAC BUILDING - LIGHTING PLAN AT EL. 524.00 PT/GAC BUILDING - ELECTRICAL PLANS AT EL. 504.00 PT/GAC BUILDING - POWER PLAN AT EL. 524.00 PT/GAC BUILDING - POWER PLAN AT EL. 537.00 PT/GAC BUILDING - POWER PLAN AT EL. 537.00 PT/GAC BUILDING - LIGHTNING PROTECTION PLAN
E-04-101 E-05-101 E-05-102 E-05-103 E-05-101A E-05-102A E-05-103A E-06-101 E-06-102 E-06-103 E-06-104 E-06-105 E-06-106 E-06-301	PARTIAL FILTER BLDG AND TUNNEL ELECTRICAL PLANS AND SCHEMATICS GAC FEED PUMP STATION - LIGHTING PLAN GAC FEED PUMP STATION - LOW VOLTAGE POWER PLAN GAC FEED PUMP STATION - LIGHTNING PROTECTION PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTING PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LV POWER PLAN GAC FEED PUMP STATION - ALT. BID No. 1 LIGHTNING PROTECTION GAC FEED PUMP STATION - MEDIUM VOLTAGE POWER PLAN PT/GAC BUILDING - LIGHTING PLAN AT EL. 524.00 PT/GAC BUILDING - ELECTRICAL PLANS AT EL. 504.00 PT/GAC BUILDING - POWER PLAN AT EL. 537.00 PT/GAC BUILDING - POWER PLAN AT EL. 537.00 PT/GAC BUILDING - LIGHTNING PROTECTION PLAN PT/GAC BUILDING - LIGHTNING PROTECTION PLAN PT/GAC BUILDING - UV ELECTRICAL SECTION

E 00 404 FILTED DI III DINO DIDE CALLEDY DEMOLITION DI ANIATEI	
E-08-101 FILTER BUILDING PIPE GALLERY - DEMOLITION PLAN AT EL	509.67
E-08-102 FILTER BUILDING ELECTRICAL PUMP ROOM - DEMOLITION	PLAN AT EL. 525.50
E-08-103 FILTER BUILDING ELECTRICAL MEZZANINE - DEMOLITION P	LAN AT EL. 535.00
E-08-104 FILTER BUILDING ELECTRICAL THIRD FLOOR - DEMOLITION	PLAN AT EL. 545.00
E-08-105 FILTER BUILDING POWER PLANS AT EL. 509.67 AND EL. 52	5.50 I
E-08-106 FILTER BUILDING PUMP ROOM - POWER PLAN AT EL. 525.5	50 II
E-08-107 FILTER BUILDING MEZZANINE - POWER PLAN AT EL. 535.00) [
E-08-108 FILTER BUILDING MEZZANINE - POWER PLAN AT EL. 535.00)
E-08-109 FILTER BUILDING THIRD FLOOR - LIGHTING PLAN AT EL. 545	5.00
E-08-110 FILTER BUILDING THIRD FLOOR - POWER PLAN AT EL. 545.	00 I
E-08-111 FILTER BUILDING THIRD FLOOR - POWER PLAN AT EL. 545.	00 II
E-09-101 CHEMICAL BUILDING WALKWAY ELECTRICAL PLANS AND	SCHEMATICS
E-10-501 ELECTRICAL DETAILS I	
E-10-502 ELECTRICAL DETAILS II	
E-10-503 ELECTRICAL DETAILS III	
E-10-504 ELECTRICAL DETAILS IV	
E-10-505 ELECTRICAL DETAILS V	
E-10-506 ELECTRICAL DETAILS VI	
E-10-507 ELECTRICAL DETAILS VII	





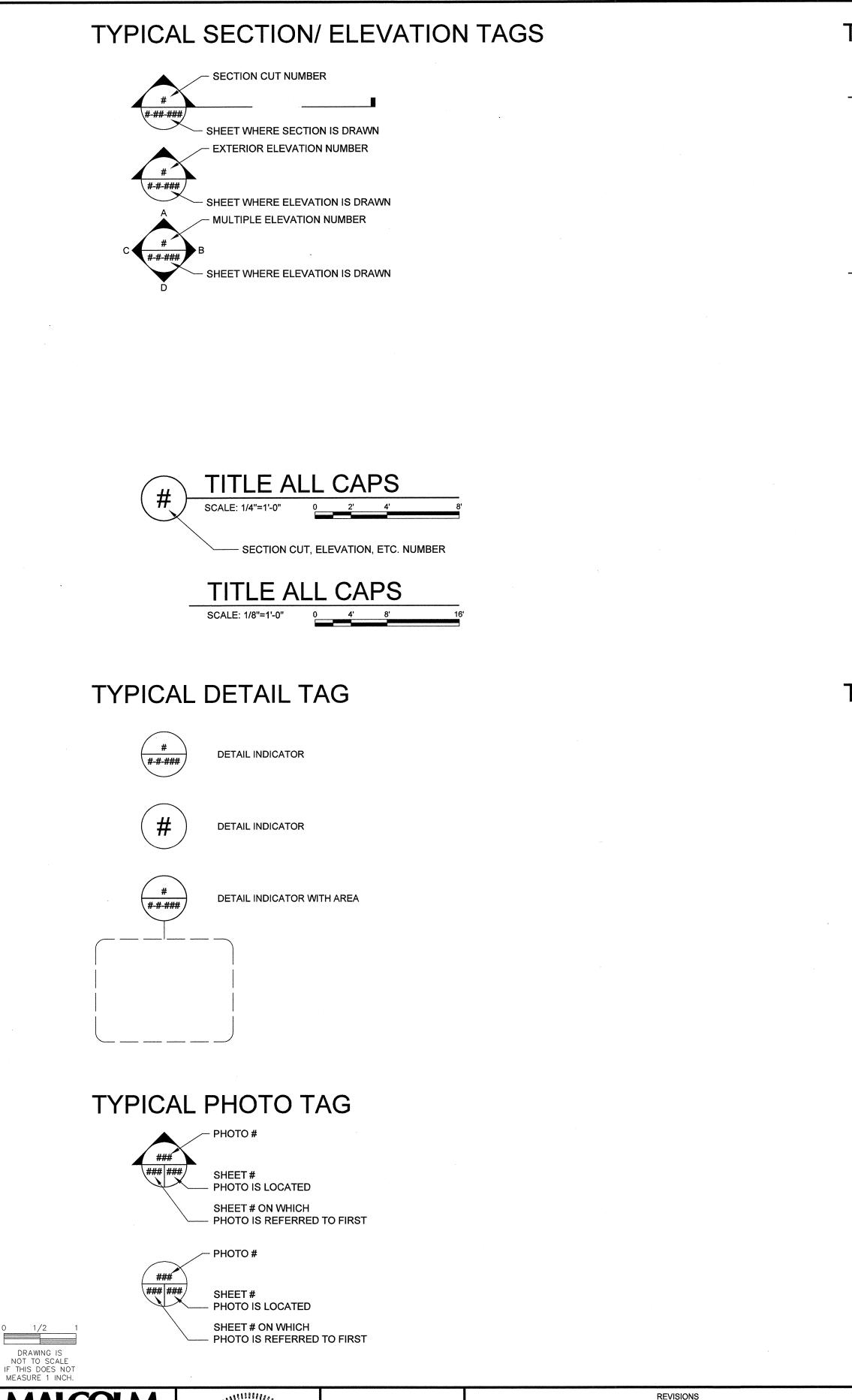


NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT **IMPROVEMENTS**

GENERAL INDEX OF **DRAWINGS II** SCALE: NO SCALE

ISSUED STATUS: BID SET MARCH, 2011 G-00-003

CAD REF. NO. <u>G-00-003</u>



TYPICAL NOTE TAG

○ SHEET KEYNOTES:

1. KEYNOTES

3.

GENERAL NOTES:

1. GENERAL NOTES

3.

3. 4.

TYPICAL NORTH SYMBOL



NORTH ARROW

MECHANICAL ABBREVIATIONS

AB	ANCHOR BOLT	ECC	ECCENTRIC	MH	MANHOLE
ABAN.	ABANDONED	EDB	ELECTRICAL DUCT BANK	MIN.	MINIMUM
AC	ASPHALT CONCRETE PAVEMENT	EF	EACH FACE	MIPT	MALE IRON PIPE THREAD
ADD'L.	ADDITIONAL	EFF.	EFFLUENT	MJ	MECHANICAL JOINT
ADJ.	ADJUSTABLE	EJ	EXPANSION JOINT	MO	MASONRY OPENING
AH	ACCESS HATCH	EL.	ELEVATION	NC	NORMALLY CLOSED
ALUM.	ALUMINUM	ELEC.	ELECTRIC	NF .	NEAR FACE
ALT.	ALTERNATE	EMH	ELECTRICAL MANHOLE	NO	NORMALLY OPEN
ARCH	ARCHITECTURE	EQ.	EQUALIZATION	NO.	NUMBER
BF	BLIND FLANGE	EW	EACH WAY	0	OVERFLOW
BITUM.	BITUMINOUS	EX.	EXISTING	oc	ON CENTER
BL	BASELINE	FD	FLOOR DRAIN	OD	OUTSIDE DIAMETER
BLDG.	BUILDING	FDN	FOUNDATION	OF	OUTSIDE FACE
BM	BENCH MARK	FDND	FOUNDATION DRAIN	OPNG.	OPENING
BM.	BEAM	FF	FAR FACE	OPP.	OPPOSITE
BOP	BOTTOM OF PIPE	FIN.	FINISHED	PC	POINT OF CURVATURE
BOT.	BOTTOM	FIPT	FEMALE IRON PIPE THREAD	PE	PLAIN END
BRG	BEARING	FLEX.	FLEXIBLE	PI	POINT OF INTERSECTION
BRP	BUILDING REFERENCE POINT	FLG.	FLANGE	PL	PLATE OR PROPERTY LINE
BW	BACKWASH	FLR.	FLOOR	PSF	POUNDS PER SQUARE FOOT
BWS	BACKWASH SUPPLY	FTG.	FOOTING	PSI	POUNDS PER SQUARE INCH
BWW	BACKWASH WASTE	FT., '	FEET	PT	POINT OF TANGENCY
Ģ	CENTERLINE	GA.	GAGE OR GAUGE	R	RISER
Č/C	CENTER TO CENTER	GAC	GRANULAR ACTIVATED CARBON	RED.	REDUCER
CB	CATCH BASIN	GALV.	GALVANIZED	REINF.	REINFORCEMENT OR REINFORCE
CHEM		GE	GROOVED END JOINT		
	CHEMICAL LINE	GRD.		REQ'D.	REQUIRED IOINT
CHH	COMMUNICATION HANDHOLE	GRAT.	GROUND	RMJ	RESTRAINED JOINT
CJ	CONSTRUCTION JOINT		GRATING	RM.	ROOM
CL.	CLEAR	HB	HOSE BIB	ROW	RIGHT OF WAY
CMH	COMMUNICATION MANHOLE	HFCA	HARNESSED FLANGE COUPLING ADAPTER	SHT.	SHEET
CMU	CONCRETE MASONRY UNIT	HORIZ.	HORIZONTAL	SOC	SOCKET
CO	CLEANOUT	HP	HIGH POINT	SPA.	SPACING
COL.	COLUMN	ID	INSIDE DIAMETER	SR	SHORT RADIUS
CONC.	CONCRETE	IF	INSIDE FACE	SS	STAINLESS STEEL
CONN	CMU CORNER OF EXT. FACE	IN., "	INCHES	STD.	STANDARD
CONT.	CONTINUED	INF.	INFLUENT	STL.	STEEL
CPLG.	COUPLING	INV.	INVERT	STRUC.	STRUCTURAL
CTW	CONTACTOR TO WASTE	JST.	JOIST	Т	TREAD
CY	CUBIC YARD(S)	JT.	JOINT	T/	TOP OF
CW	COLD WATER (POTABLE)	K	KIP (1000 POUNDS)	T&B	TOP AND BOTTOM
D	DRAIN	KSF	KIPS PER SQUARE FOOT	THK.	THICK
DET.	DETAIL	LG.	LONG	TYP.	TYPICAL
DIP	DUCTILE IRON PIPE	LLH	LONG LEG HORIZONTAL	UON	UNLESS OTHERWISE NOTED
DIA.	DIAMETER	LLV	LONG LEG VERTICAL	USG	UNITED STATES STANDARD GAGE
DIM	DIMENSION	LR	LONG RADIUS	VERT.	VERTICAL
DISCH.	DISCHARGE	LSH	LEVEL SWITCH HIGH	W/	WITH
DMH	DROP MANHOLE	LSLL	LEVEL SWITCH LOW LOW	WP	WORK POINT
DN.	DOWN	MAS	MASONRY	WRF	WATER RECLAMATION FACILITY
DTL	DETAIL	MAX.	MAXIMUM	WS	WATER STOP
DWGS	DRAWINGS	MCC	MOTOR CONTROL CENTER	WWF	WELDED WIRE FABRIC
DWL.	DOWELS	MFR.	MANUFACTURER		
EA.	EACH	MGD	MILLION GALLONS PER DAY		

IDENTIFYING LETTERS FOR GROUP OF DRAWINGS

G - GENERAL
D - DEMOLITION
C - CIVIL (SITE)
M - MECHANICAL
A - ARCHITECTURAL
S - STRUCTURAL
H - HVAC
P - PLUMBING
FP - FIRE PROTECTION
I - INSTRUMENTATION
E - FI FCTRICAL

TMTP AREA LEGEND

AREA IDENTIFIER NUMBER	AREA DESCRIPTION
00	_GENERAL SHEETS
01	_SITE WORK MODIFICATIONS
	(GRADING, ROADWAYS, SIDEWALKS, ETC.)
02	_SITE UTILITIES (PROCESS
	PIPING, ELECTRICAL DUCTBANKS, ETC.)
0.2	EXISTING FLOC. AND SED BASIN
03	_ EXISTING FLOC. AND SED BASING
05	_GAC FEED PUMP STATION
06	_PT / GAC BUILDING
08	_FILTER BUILDING
09	_CHEMICAL BUILDING
10	_TYPICAL DETAILS

DIMENSIONS:

(*) DENOTES DIMENSIONS TO BE
DETERMINED BY MANUFACTURER

(* *) DENOTES DIMENSIONS TO BE
DETERMINED IN FIELD BY
CONTRACTOR.

MALCOLM PIRNIE



			REVISIONS		
NO.	BY	DATE	REMARKS	DES _	JMA
				DWN	PJW
				CKD _	CMW

NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT

ADVANCED TREATMENT IMPROVEMENTS

GENERAL

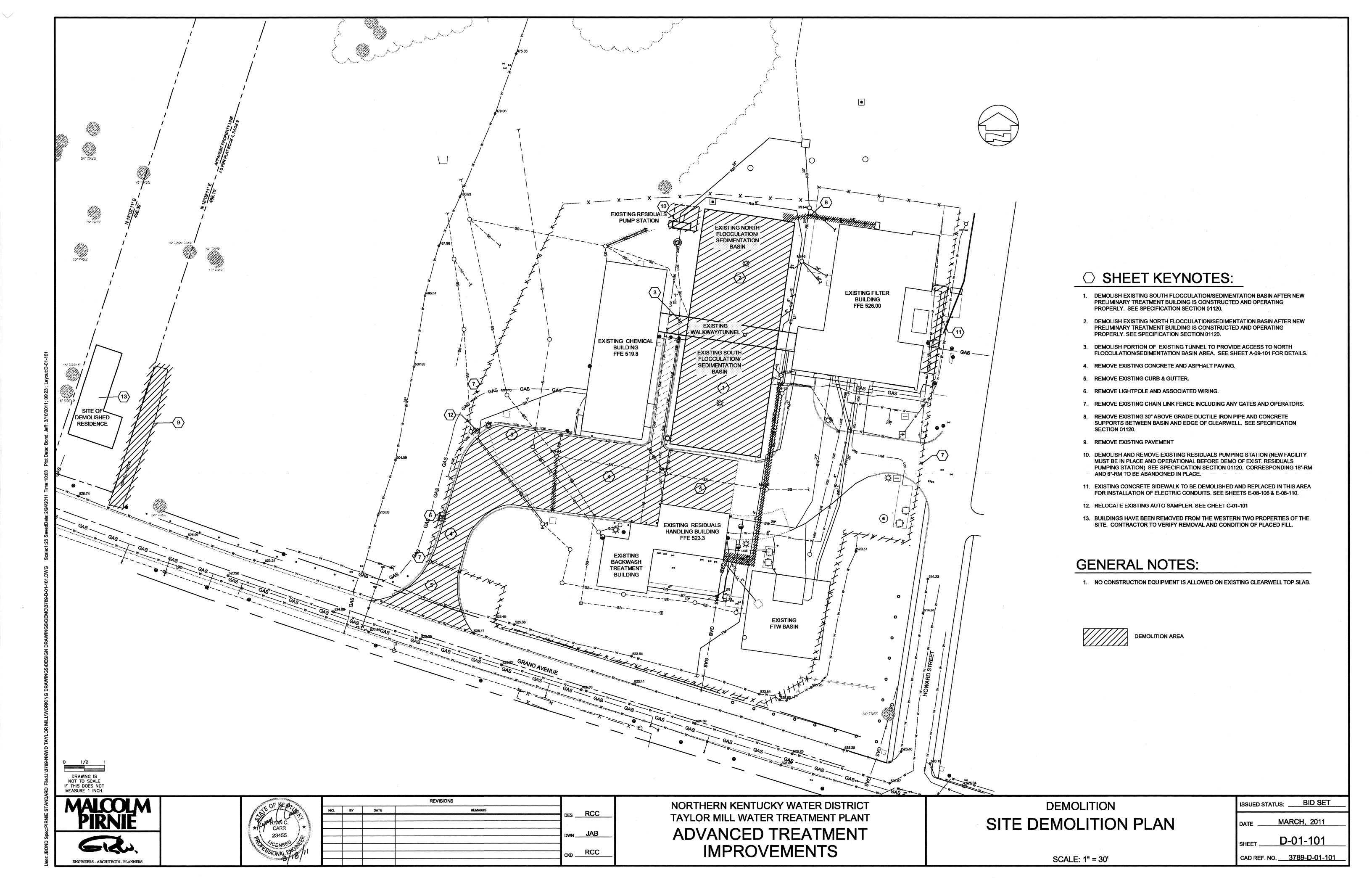
NOTES, SYMBOLS, AND ABBREVIATIONS

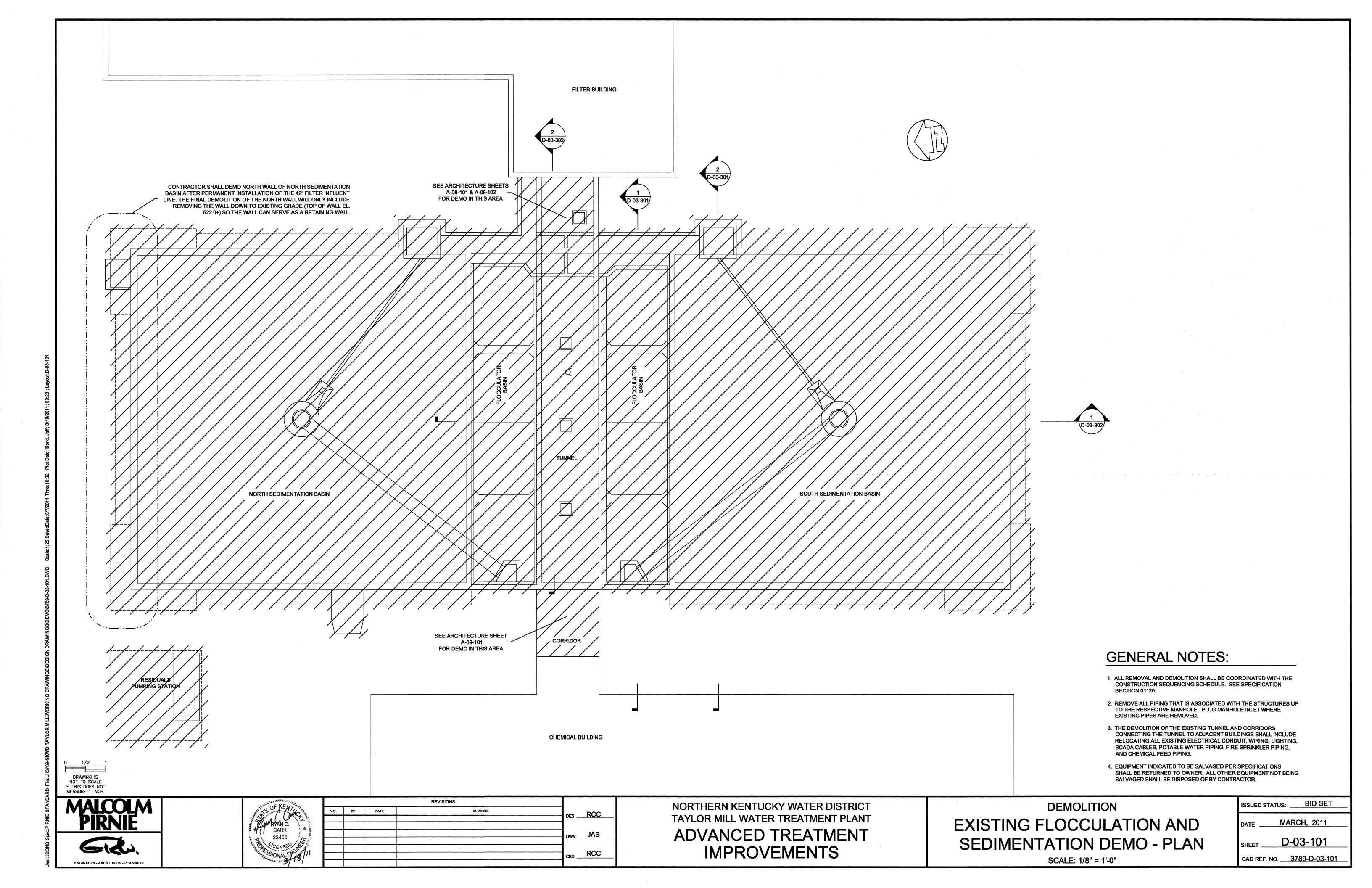
SCALE: NO SCALE

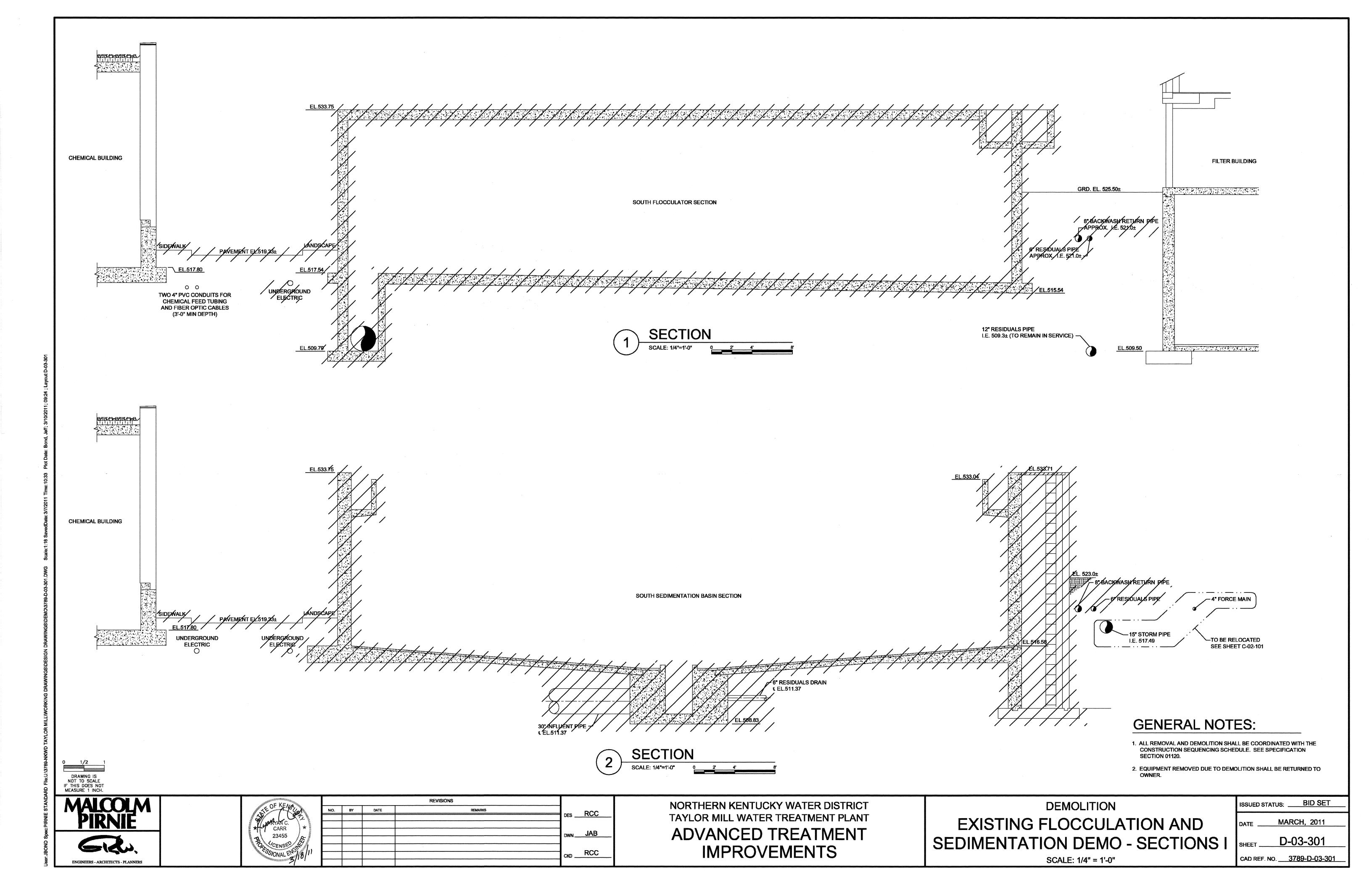
DATE MARCH, 2011

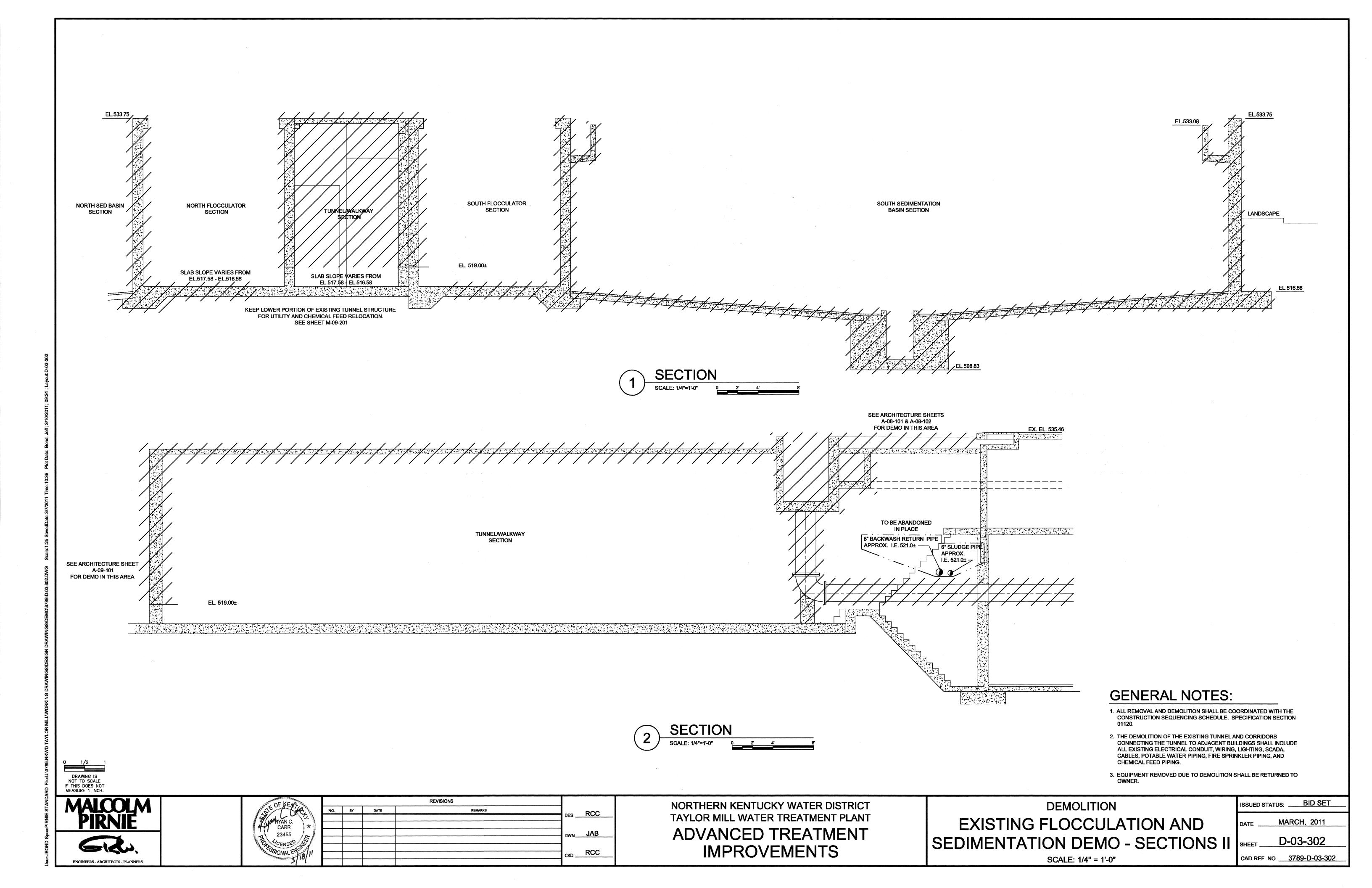
SHEET G-00-004

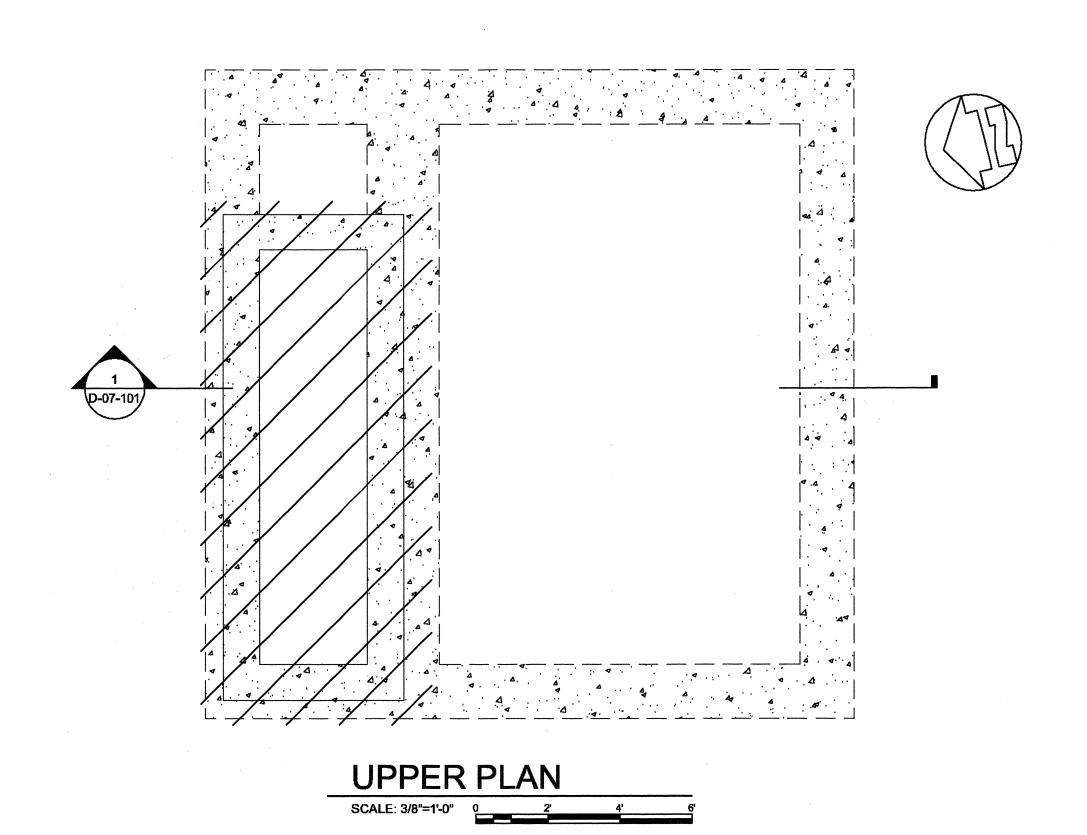
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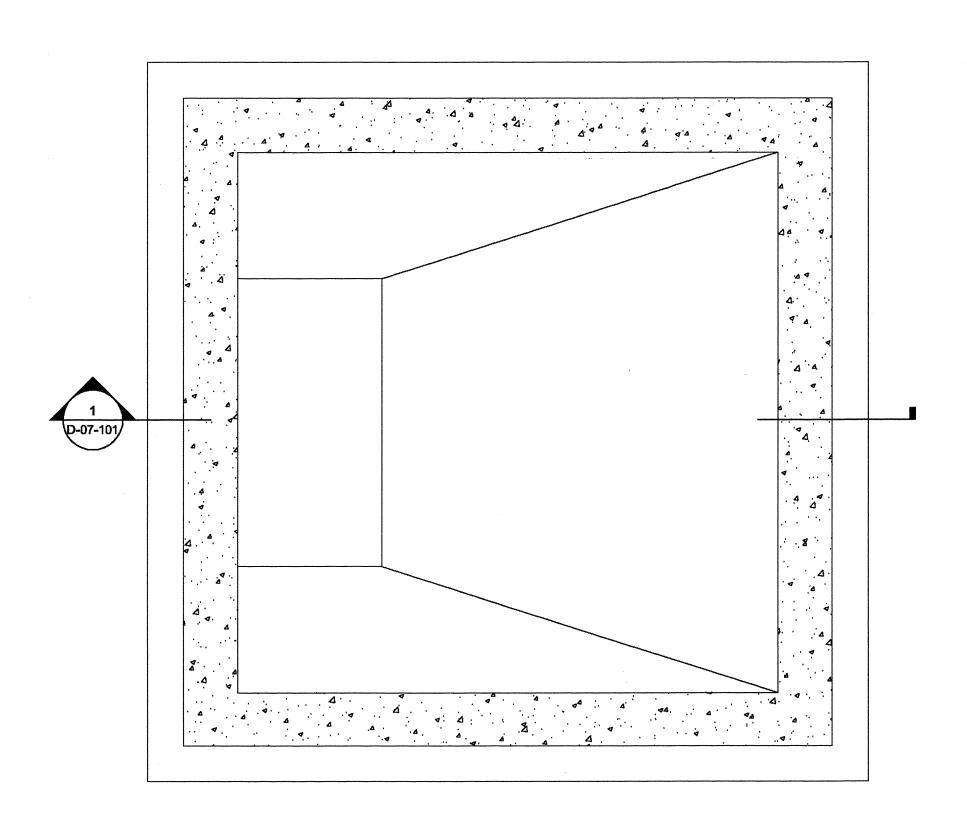






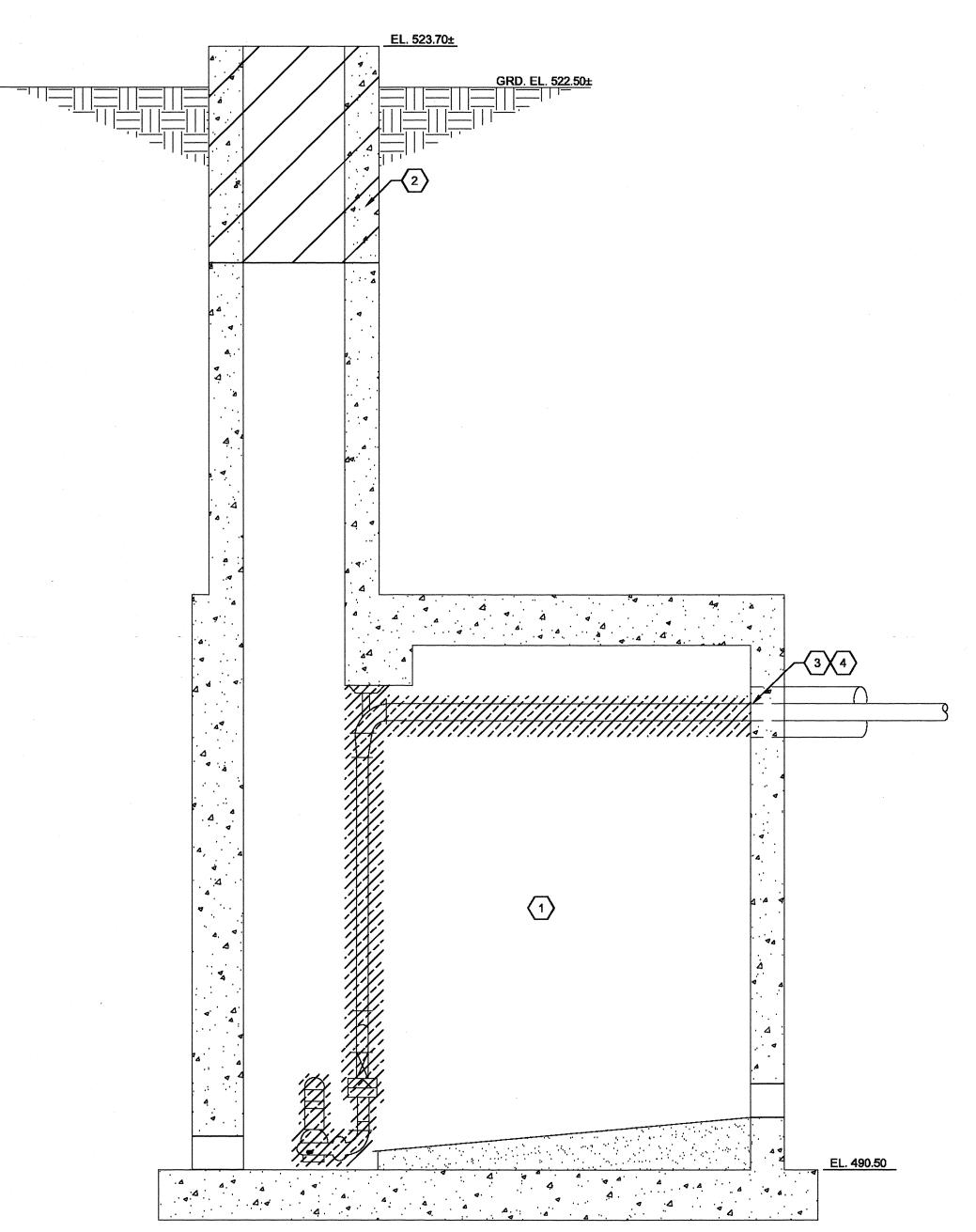








- 1. REMAINING STRUCTURE TO BE BACKFILLED WITH "LIGHT WEIGHT ENGINEERED FILL" AS PER SPECIFICATION SECTION
- 2. REMOVE TOP 6'-0" PORTION OF STRUCTURE AND BACKFILL WITH COMPACTED CLAY AND 6" TOPSOIL CAP.
- 3. GROUT FILL TO PLUG EXISTING 18" RM INFLUENT. CONTRACTOR TO VERIFY I.E.
- 4. GROUT FILL TO PLUG EXISTING 6" RM EFFLUENT CONTRACTOR TO VERIFY I.E.

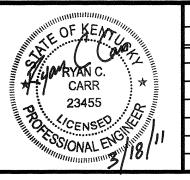




- 1. ALL REMOVAL AND DEMOLITION SHALL BE COORDINATED WITH THE CONSTRUCTION SEQUENCING SCHEDULE, SPECIFICATION SECTION
- 3. EQUIPMENT INDICATED TO BE SALVAGED PER SPECIFICATIONS SHALL BE RETURNED TO OWNER. ALL OTHER EQUIPMENT NOT BEING SALVAGED SHALL BE DISPOSED BY CONTRACTOR.



DRAWING IS NOT TO SCALE IF THIS DOES NOT MEASURE 1 INCH. MALCOLM PIRNIE



UPPER PLAN

	· · · · · · · · · · · · · · · · · · ·							
DES RCC	REMARKS	DATE	BY	10.				
DES RCC								
DWNJAB		***************************************						
BCC								
CKD RCC								

NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT **ADVANCED TREATMENT**

IMPROVEMENTS

DEMOLITION RESIDUALS PUMP STATION **DEMOLITION - PLANS AND SECTION**

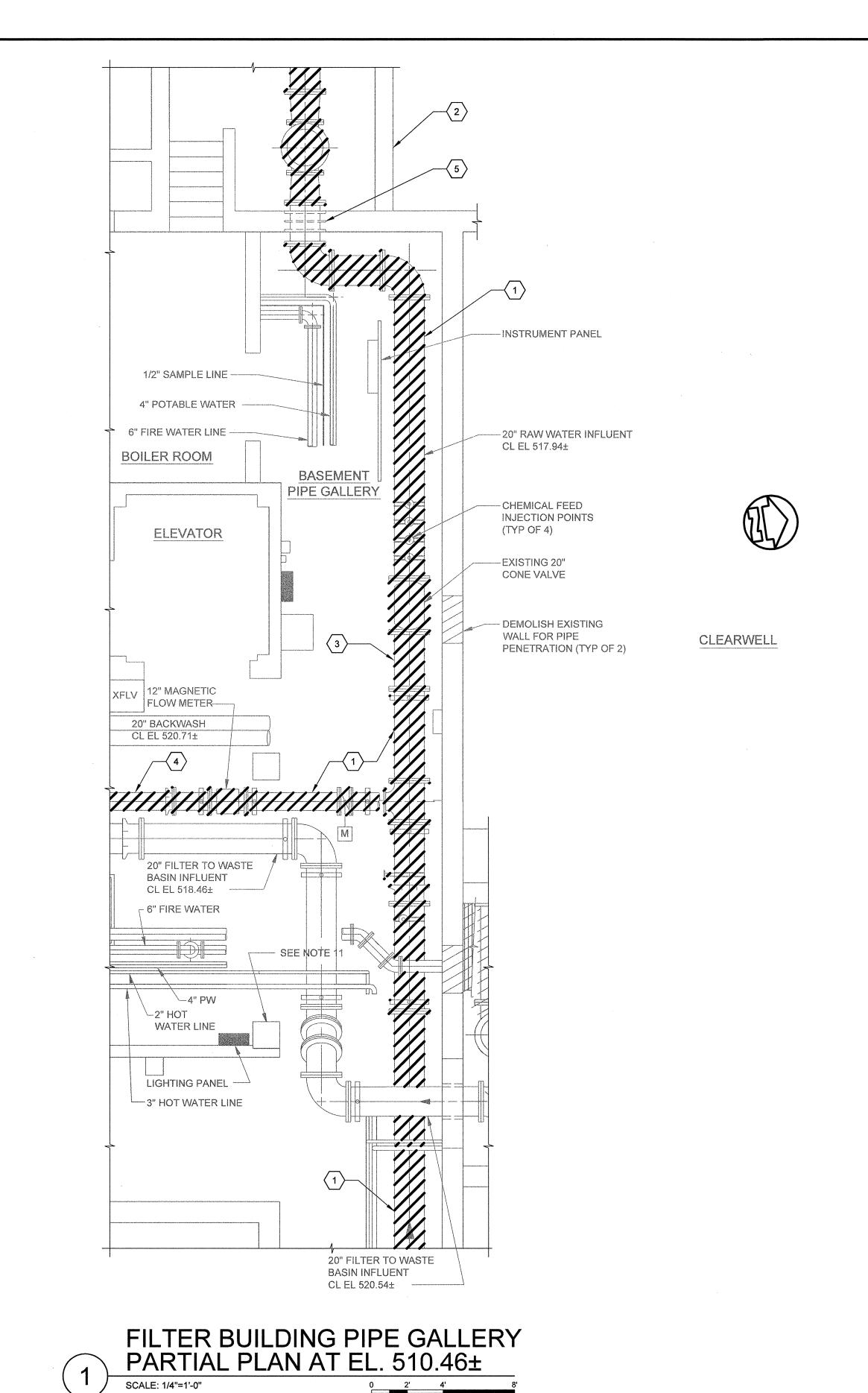
D-07-101

ISSUED STATUS: BID SET

SCALE: 3/8" = 1'-0"

CAD REF. NO. 3789-D-07-101

MARCH, 2011



○ SHEET KEYNOTES:

- 1. REMOVE EXISTING 20" RAW WATER INFLUENT MAIN, RAW WATER CHEMICAL FEED INJECTION POINTS, EXISTING 20" CONE VALVE, FLOW METER, FITTINGS, BENDS, PIPE SUPPORTS AND ALL APPURTENCES FROM THE EAST WALL OF THE PIPE GALLERY TO THE EXISTING RAPID MIX. REMOVE EXISTING 12" FILTER TO WASTE RETURN PIPE, FLOW METER, VALVE, FITTINGS, BENDS, PIPE SUPPORTS AND ALL APPURTENCES FROM THE SOUTH WALL OF THE PIPE GALLERY TO THE EXISTING 20" RAW WATER INFLUENT
- 2. ALL PIPING AND UTILITIES TO BE REMOVED FROM EXISTING TUNNEL AND TUNNEL IS TO BE PARTIALLY DEMOLISHED. SEE TUNNEL DEMOLITION SHEET D-03-302 AND UTILITY RELOCATION SHEET M-09-201.
- 3. APPROXIMATE LENGTH OF 20" RAW WATER PIPE INCLUDING FITTINGS TO BE REMOVED IS 170 FEET.
- 4. APPROXIMATE LENGTH OF 12" FILTER TO WASTE RETURN PIPE INCLUDING FITTINGS TO BE REMOVED IS 25 FEET.
- 5. EXISTING WALL PIPE TO REMAIN.

GENERAL NOTES:

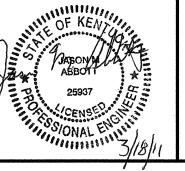
1. REFER TO ELECTRICAL DEMOLITION DRAWING E-08-101 FOR MORE DETAILS ON ELECTRICAL WORK REQUIRED.

2. CUT EXISTING 20" RAW WATER AND 12" FILTER TO WASTE RETURN PIPES 3 FEET FROM THE EAST AND SOUTH WALL. INSTALL PLAIN END BY MECHANICALLY RESTRAINED CAPS TO SEAL PIPE WITHIN PIPE GALLERY.

DRAWING IS
NOT TO SCALE
IF THIS DOES NOT
MEASURE 1 INCH.

MALCOLM
PIRNIE

()



			REVISIONS		
NO.	BY	DATE	REMARKS	DES	JMA
.				DE9	<u> </u>
				DWN	PJW
				DWIN	
					CMW
				CKD	

NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT

IMPROVEMENTS

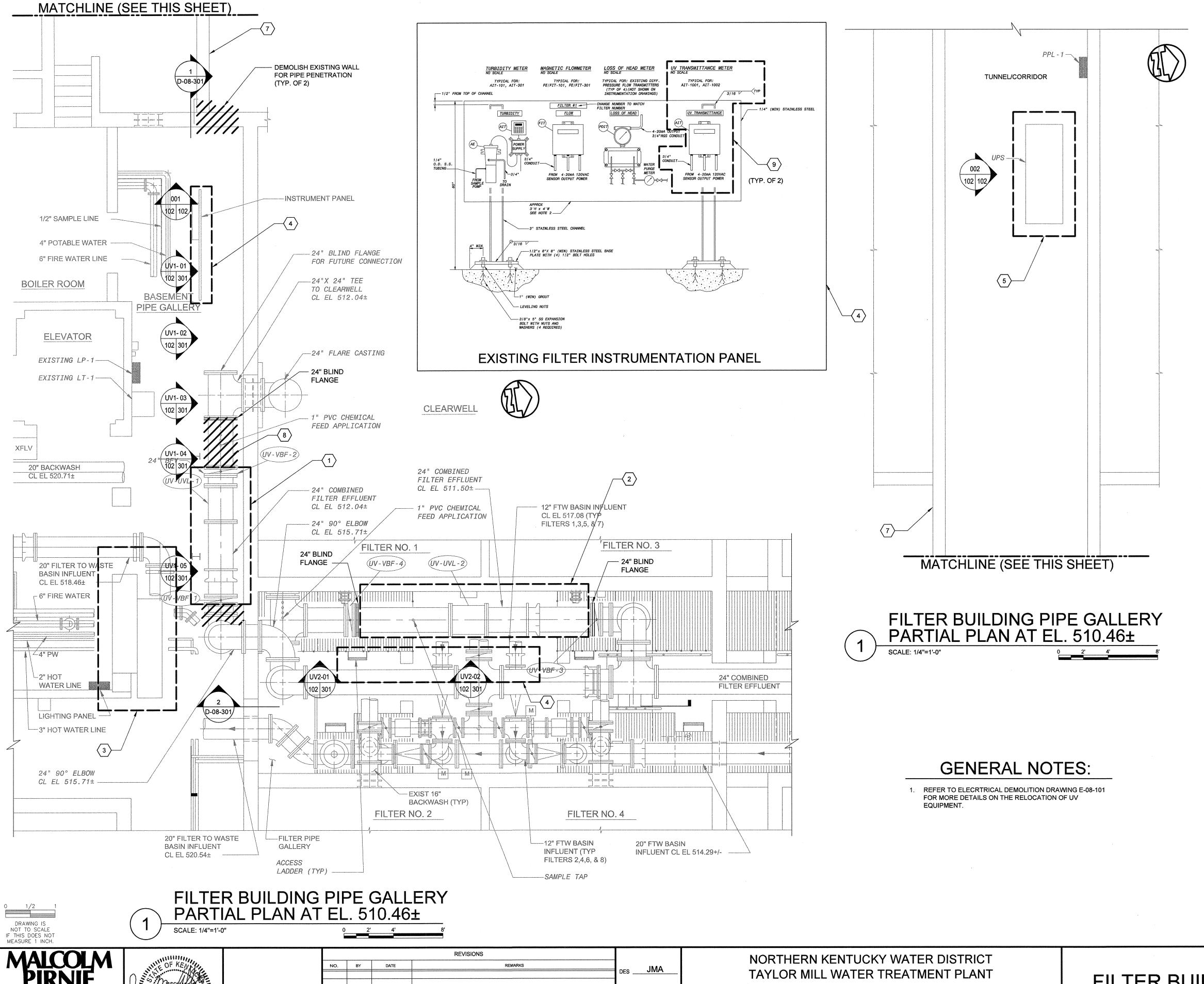
FILTER BUILDING PIPE GALLERY PARTIAL PLANS

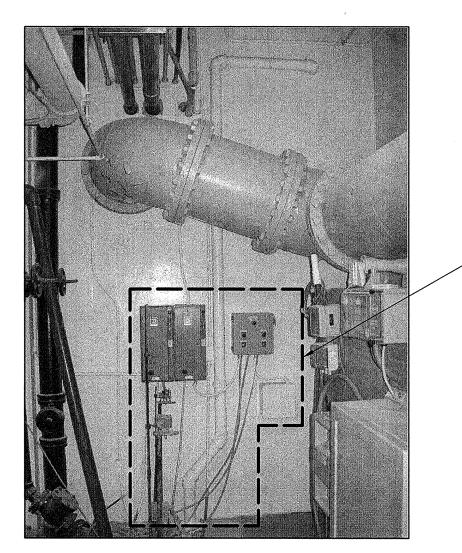
DEMOLITION

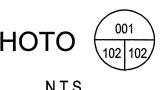
SCALE: 1/4" = 1'-0"

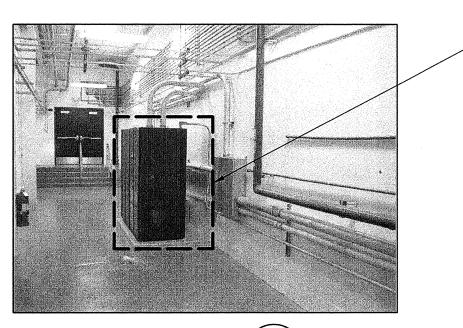
D-08-101

CAD REF. NO. _______ D-08-101









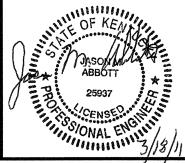
PHOTO

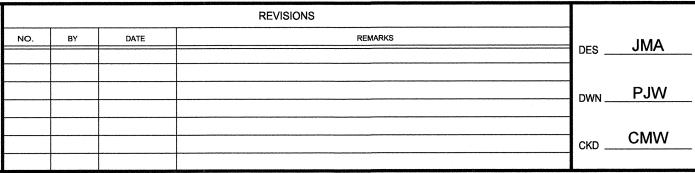
○ SHEET KEYNOTES:

- 1. REMOVE AND RELOCATE TWO 24" BUTTERFLY VALVES, ACTUATORS, UV REACTOR NUMBER 1, ALL SAMPLE AND CHEMICAL PIPING, JOINTS, PIPING COUPLES AND ALL APPURTENANCES FOR A COMPLETE OPERATIONAL UV SYSTEM. SEE SHEET M-06-305.
- 2. REMOVE AND RELOCATE UV REACTOR NUMBER 2, ALL SAMPLE AND CHEMICAL PIPING, JOINTS, PIPING COUPLES AND ALL APPURTENANCES FOR A COMPLETE OPERATIONAL UV SYSTEM. SEE SHEET M-06-305.
- 3. REMOVE AND RELOCATE EXISTING UV CONTROL PANELS AND ALL APPURTENANCES FOR A COMPLETE OPERATIONAL UV SYSTEM. SEE DRAWING E-06-104 FOR NEW LOCATION OF UV CONTROL PANELS.
- 4. EXISTING INSTRUMENTATION PANELS SHALL BE REMOVED AND REINSTALLED TO ALLOW INSTALLATION OF PROPOSED PIPING. ALL UV INSTRUMENTATION SHALL BE RELOCATED TO NEW INSTRUMENTATION PANELS WITHIN THE PT/GAC BUILDING AND **INSTALLED FOR A COMPLETE** OPERATIONAL UV SYSTEM. SEE **ELECTRICAL DRAWINGS FOR NEW** LOCATION. THE EXISTING TURBIDITY ANALYZERS AND LOSS OF HEAD TRANSMITTERS SHALL REMAIN IN THE PIPE GALLERY.

- TEMPORARILY RELOCATE UV UPS AS SHOWN ON DRAWING E-08-101. RELOCATE EXISTING UV UPS AND ALL APPURTENANCES FOR A COMPLETE OPERATIONAL UV SYSTEM. SEE DRAWING E-06-105 FOR FINAL LOCATION OF UV UPS.
- 6. RELOCATE EXISTING PANELS, CONDUIT AND ALL APPURTENANCES TO ALLOW FOR PROPOSED PIPE PENETRATIONS. PANELS AND DRAIN LINES SHALL REMAIN IN SERVICE WHILE BEING RELOCATED.
- ALL PIPING AND UTILITIES TO BE REMOVED FROM EXISTING TUNNEL AND TUNNEL IS TO BE DEMOLISHED. SEE TUNNEL DEMOLITION SHEET D-03-302 AND UTILITY RELOCATION SHEET M-09-201.
- PROVIDE NEW SPOOL PIECE FOR UV REACTOR NUMBER 1 IN PT/GAC BUILDING.
- UV TRANSMITTANCE MONITORS FOR UV REACTORS 1 AND 2 SHALL BE RELOCATED WITH THEIR RESPECTIVE UV REACTORS.

MALCOLM PIRNIE





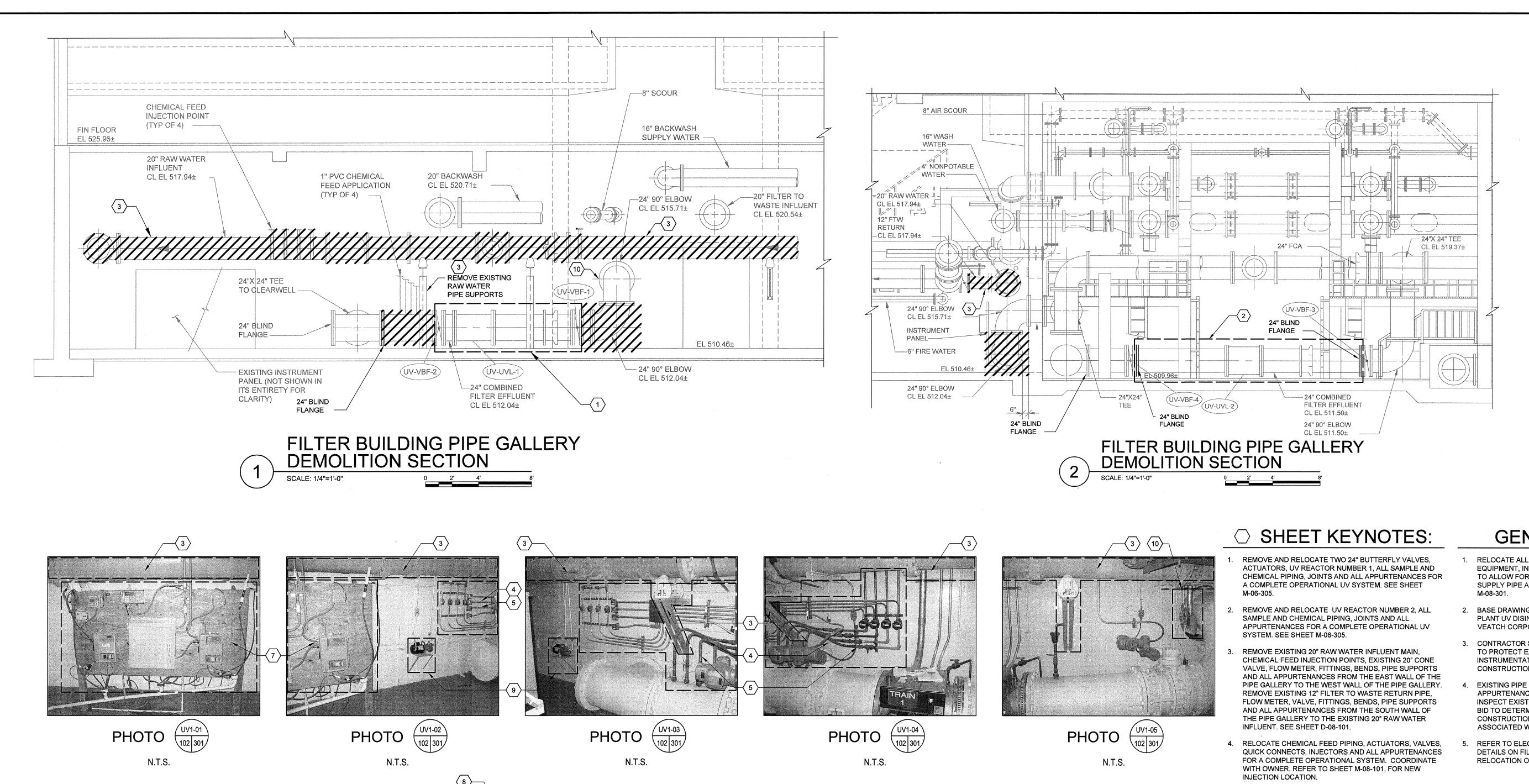
ADVANCED TREATMENT **IMPROVEMENTS**

DEMOLITION

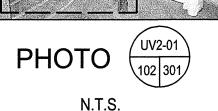
FILTER BUILDING PIPE GALLERY PARTIAL PLANS / UV RELOCATION

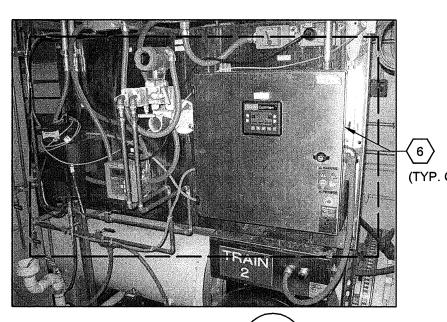
SCALE: 1/4" = 1'-0"

ISSUED STATUS: BID SET MARCH, 2011 D-08-102 CAD REF. NO. _______ D-08-102



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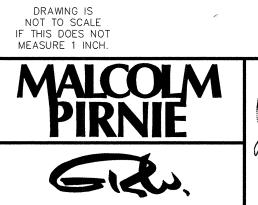




- 5. ROUTE THE CHEMICAL FEED PIPING FROM THE EXISTING PIPING TO THE APPLICATION TAP AS ACCEPTABLE TO OWNER AND ENGINEER. NOT ALL FEED PIPING IS SHOWN. REFER TO SHEET M-08-101. ALL PIPING SHALL BE LABELED TO INDICATE THE SERVICE AND FEED LOCATION. ALL RELOCATED PIPING SHALL BE NEW.
- 6. RELOCATE UV TRANSMITTANCE MONITORS, ALL TAPS, CONNECTIONS AND ALL APPURTENANCES FOR COMPLETE OPERATIONAL SYSTEMS. UV TRANSMITTANCE MONITORS FOR BOTH UV REACTORS LOCATED ON THESE PANELS.
- 7. EXISTING INSTRUMENTATION PANEL SHALL BE REMOVED AND REINSTALLED TO ALLOW INSTALLATION OF PROPOSED PIPING. INSTRUMENTATION SHALL REMAIN IN SERVICE. ADDITIONAL EQUIPMENT LOCATED ON THE BACK OF EXISTING INSTRUMENTATION PANEL.
- 8. CHEMICAL FEED PIPING AND CONTROLS TO REMAIN IN EXISTING LOCATION.
- REMOVE EXISTING RAW WATER SAMPLE PUMP AND ALL PIPING. DELIVER SAMPLE PUMP TO OWNER.
- 10. EXISTING ELECTRICAL CONDUIT SHALL BE RELOCATED PRIOR TO ANY UV REACTORS BEING REMOVED OR THE EXISTING 90° BEND BEING ROTATED.

GENERAL NOTES:

- RELOCATE ALL PIPING, CONDUIT, PIPE SUPPORTS, EQUIPMENT, INSTRUMENTATION AND ALL APPURTENCES TO ALLOW FOR INSTALLATION OF 24" GAC FEED PS SUPPLY PIPE AS SHOWN ON SHEET M-08-101 AND M-08-301.
- 2. BASE DRAWING FROM 2006 TAYLOR MILL TREATMENT PLANT UV DISINFECTION PROJECT DESIGNED BY BLACK & VEATCH CORPORATION.
- B. CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT EXISTING PIPING, VALVES, EQUIPMENT, INSTRUMENTATION AND OTHER ITEMS DURING CONSTRUCTION ACCEPTABLE TO OWNER AND ENGINEER
- EXISTING PIPE SUPPORTS AND OTHER MISCELLANEOUS APPURTENANCES NOT SHOWN. CONTRACTOR SHALL INSPECT EXISTING FACILITIES PRIOR TO SUBMITTING A BID TO DETERMINE ALL CONSTRAINTS THAT MAY AFFECT CONSTRUCTION ACTIVITIES, AND INCLUDE ALL COSTS ASSOCIATED WITH THEM IN ITS BID.
- 5. REFER TO ELECTRICAL DRAWING E-08-101 FOR MORE DETAILS ON FILTER BUILDING DEMOLITION AND RELOCATION OF UV EQUIPMENT.





NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT

IMPROVEMENTS

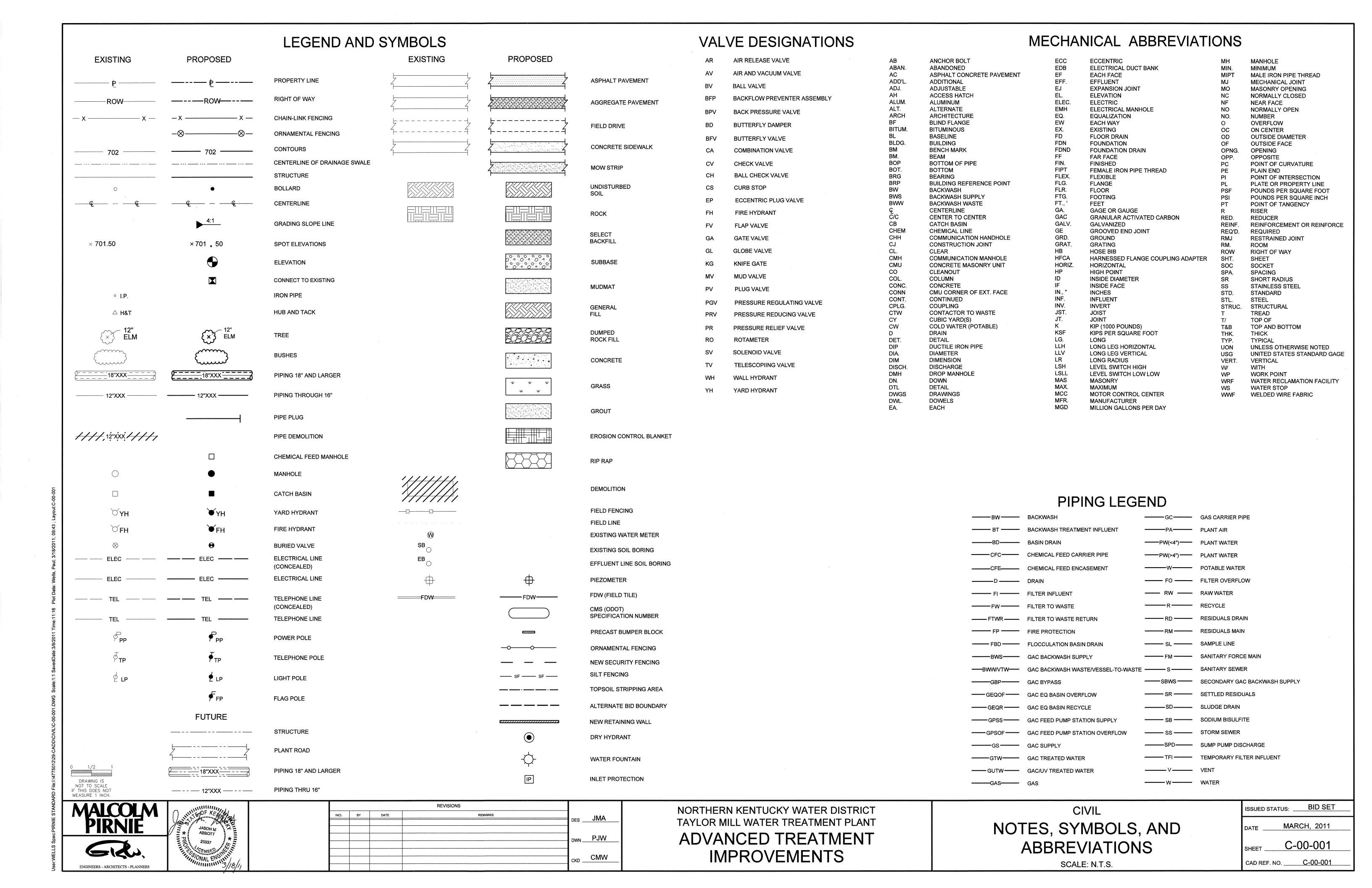
FILTER BUILDING PIPE GALLERY SECTIONS

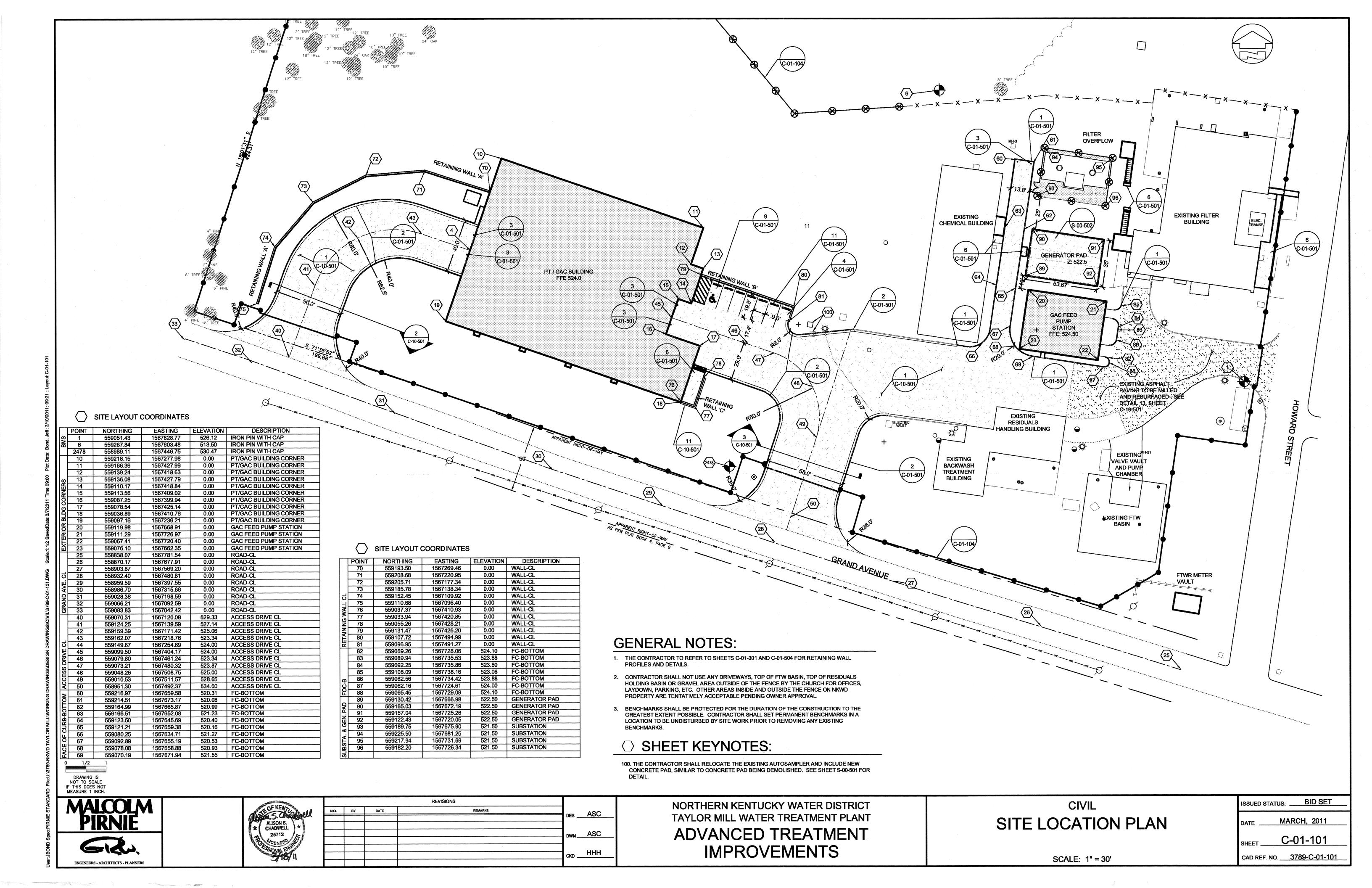
SCALE: 1/4" = 1'-0"

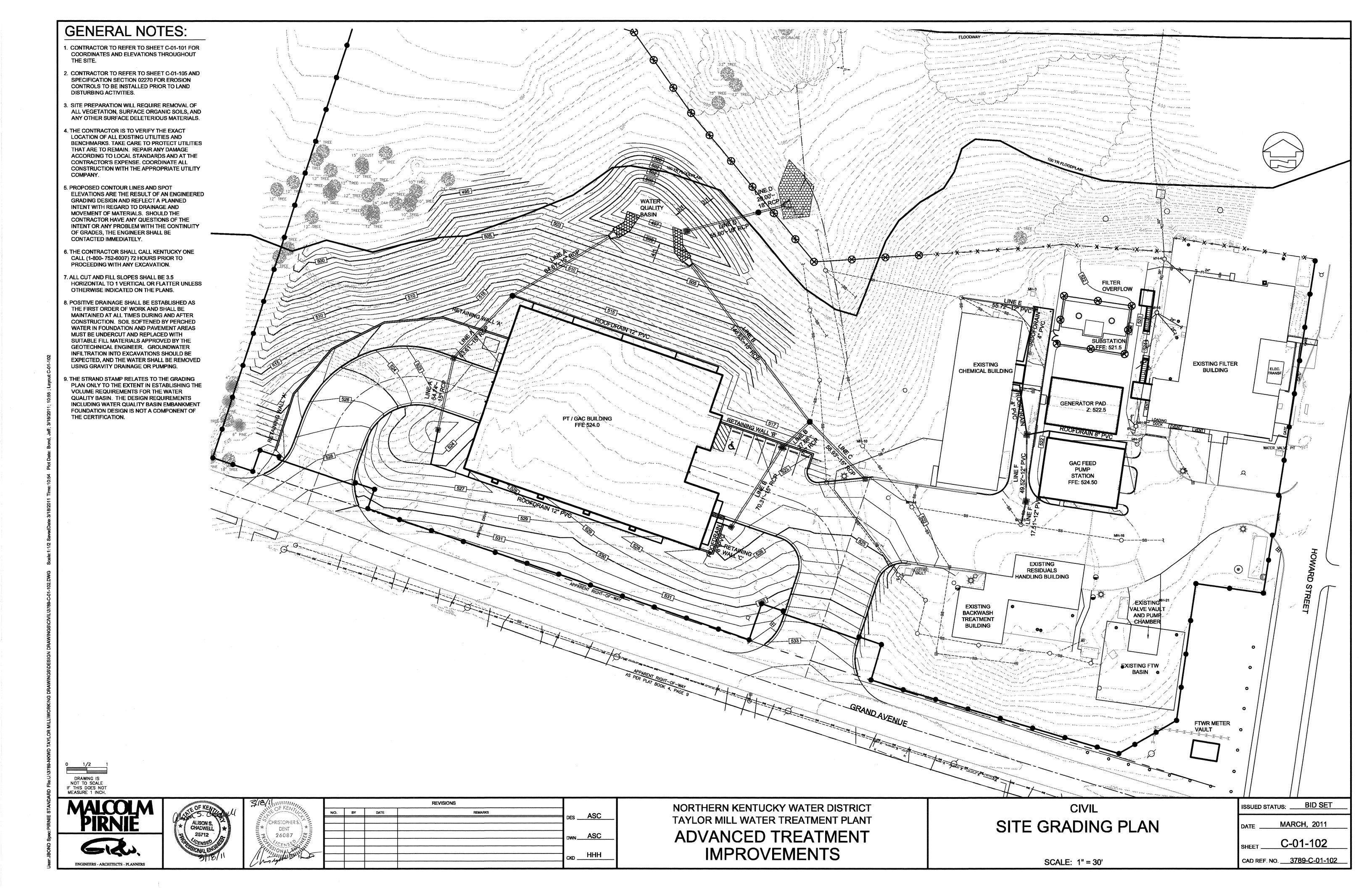
DATE MARCH, 2011

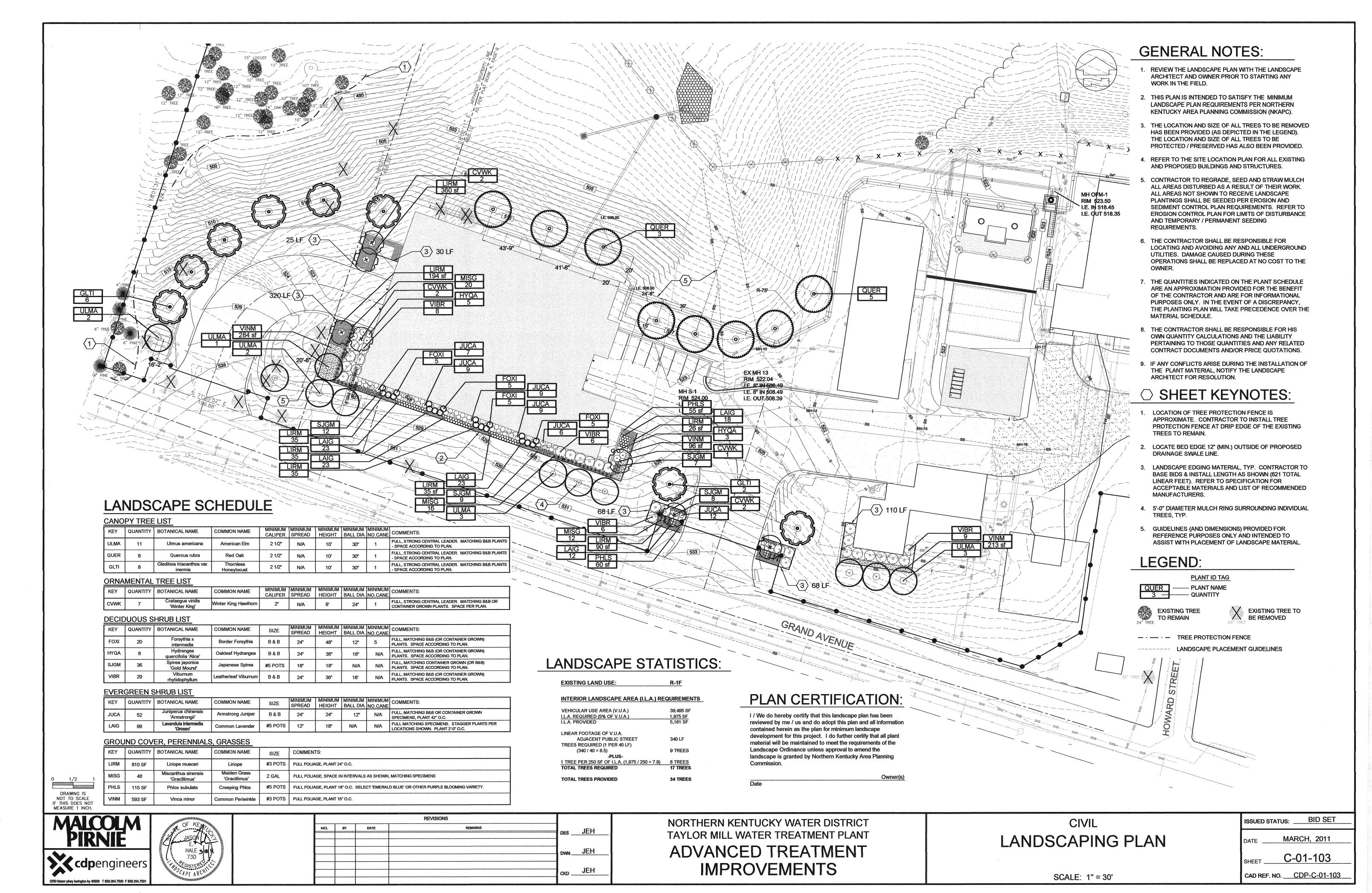
SHEET D-08-301

CAD REF. NO. D-08-301

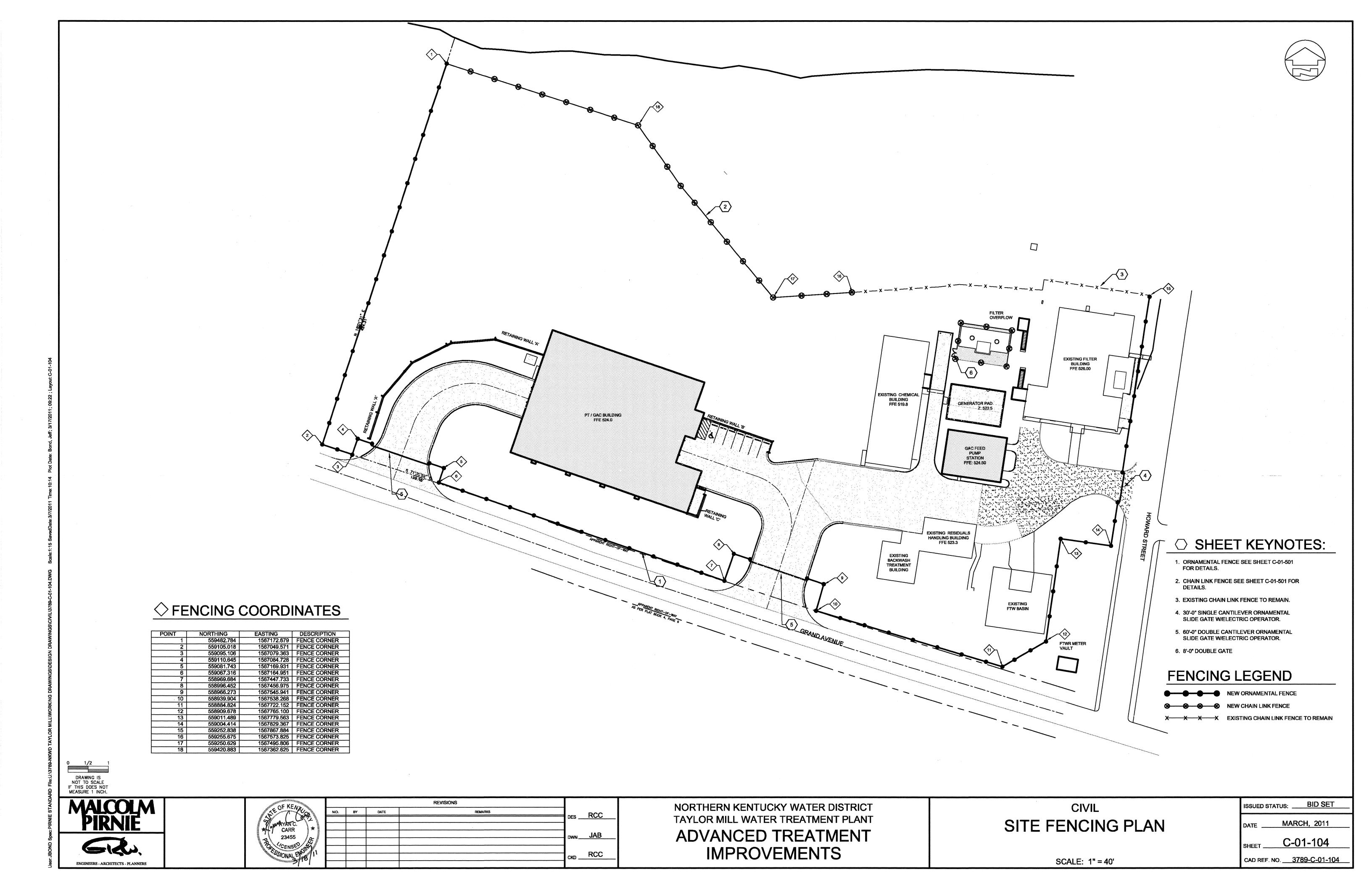


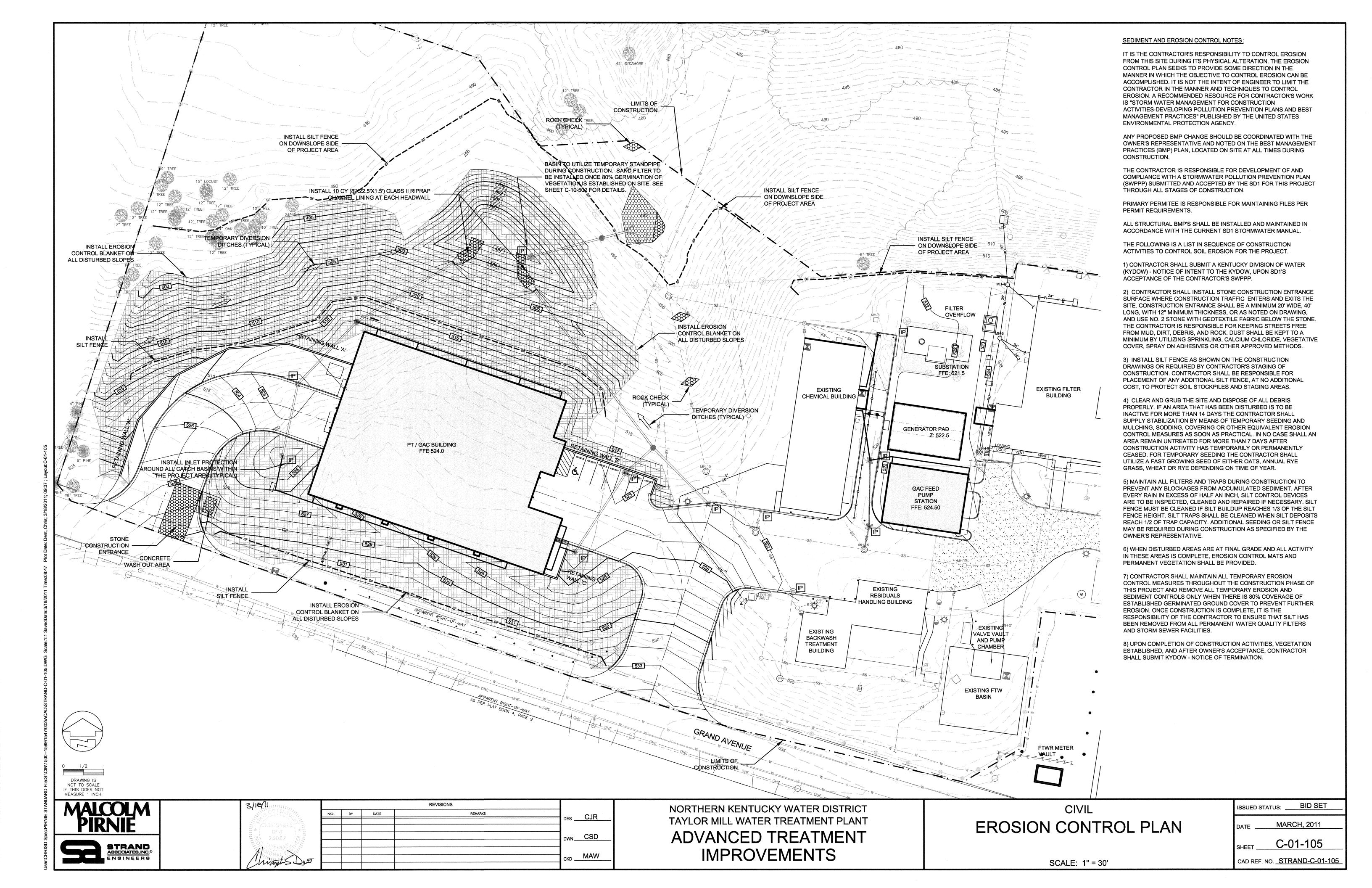






F.\Projects\10010 - NKWD Taylor Mill WTP\ACAD\Info_Exchange_Public_Folder\CIVIL-CDP\CDP-C



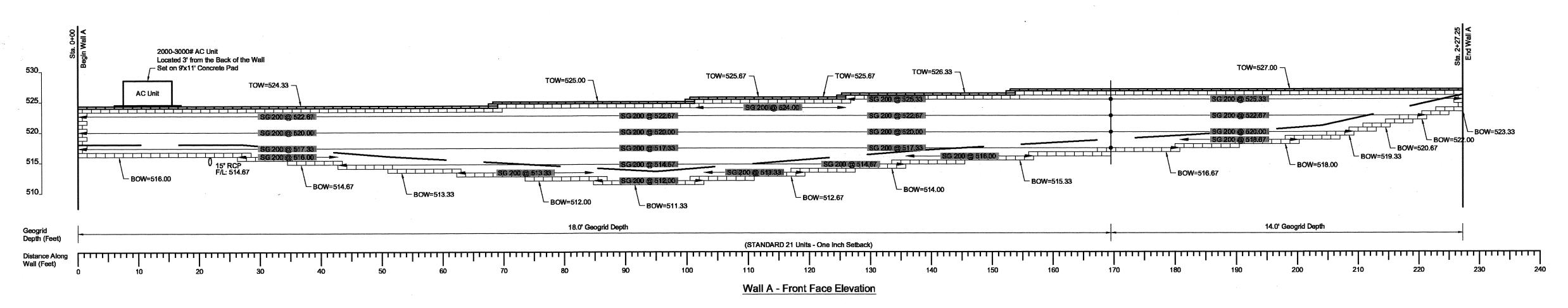


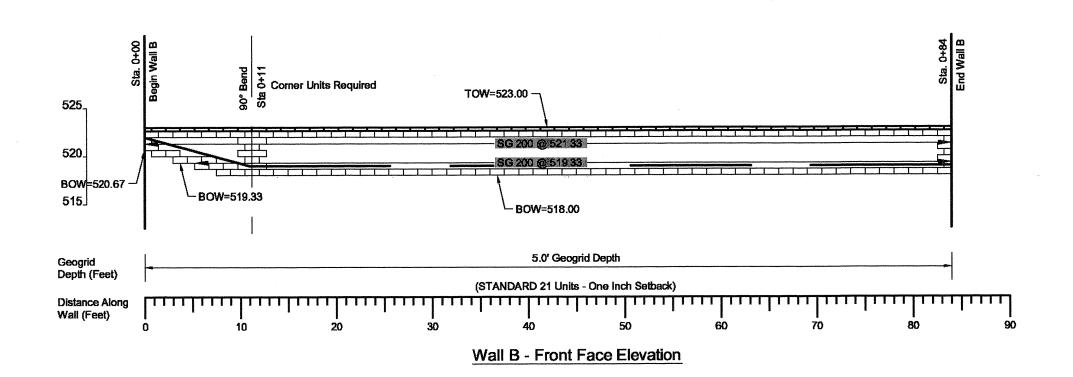
GENERAL NOTES:

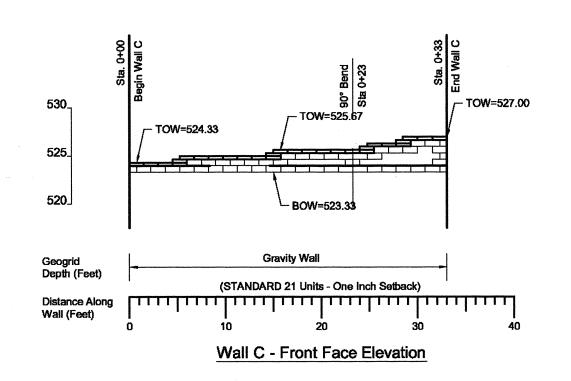
1. THE WALL SHALL BE CONSTRUCTED WITH MASONRY BLOCK UNITS USING A 1" SETBACK (1H:8V

Stratagrid 200 (OR E

2. THE DESIGN REQUIRES STRATAGRID 200 (OR EQUIVALENT) SOIL REINFORCEMENTS AT THE ELEVATIONS SHOWN.







GENERAL NOTES:

1. THE FOLLOWING EFFECTIVE STRENGTH DESIGN PARAMETERS WERE ASSUMED IN THE PREPARATION OF STRUCTURAL CALCULATIONS FOR THE RETAINING WALL SYSTEM:

2. THE SYSTEM HAS BEEN EVALUATED FOR INTERNAL STABILITY AND SIMPLE EXTERNAL SLIDING AND OVERTURNING. REFER TO THE DESIGN CALCULATIONS FOR SPECIFIC MINIMUM FACTORS OF SAFETY UTILIZED FOR WALL DESIGN.

3. THE WALLS ARE DESIGNED TO SUPPORT THE FOLLOWING MAXIMUM SURCHARGE LOADINGS:

LIVE LOAD: 250 PSF BACKSLOPE: LEVEL SEISMIC - PGA<0.10G

- 4. THE WALL FOUNDATION SOILS AT EACH WALL LOCATION SHALL BE CAPABLE OF SAFELY SUPPORTING <u>1700 PS</u>F OR AS INDICATED ON THE WALL ELEVATIONS WITHOUT FAILURE OR EXCESSIVE SETTLEMENT. LOCAL BEARING CAPACITY SHALL BE CONFIRMED BY THE SITE ENGINEER.
- 5. THE CONTRACTOR SHALL PROVIDE SURFACE AND SUBSURFACE DRAINAGE, GRADING, AND EROSION CONTROL DURING AND AFTER WALL CONSTRUCTION TO AVOID DAMAGE TO THE WALL STRUCTURE.

DRAWING IS
NOT TO SCALE
IF THIS DOES NOT
MEASURE 1 INCH.



MARINE OF KEN				REVISIONS		
MATE OF KENZING	NO.	BY	DATE	REMARKS	DES	ASC
ALISON S. CHADWELL *						
CHADWELL *					DWN	ASC
Polycener 19					5777	
NAME OF THE PARTY					СКО	
7101"						

NORTHERN KENTUCKY WATER DISTRICT
TAYLOR MILL WATER TREATMENT PLANT
ADVANCED TREATMENT
IMPROVEMENTS

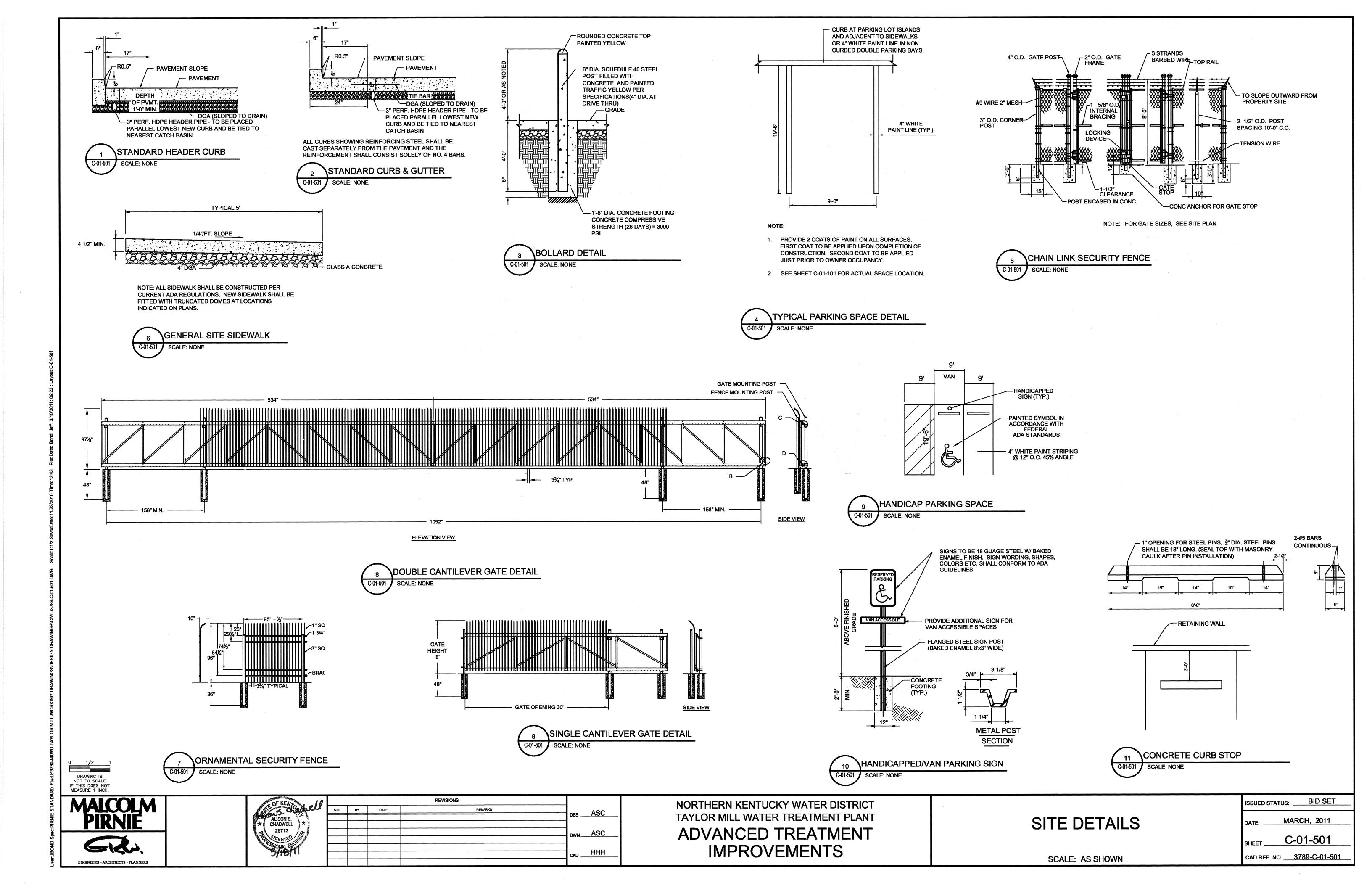
CIVIL RETAINING WALL PROFILES

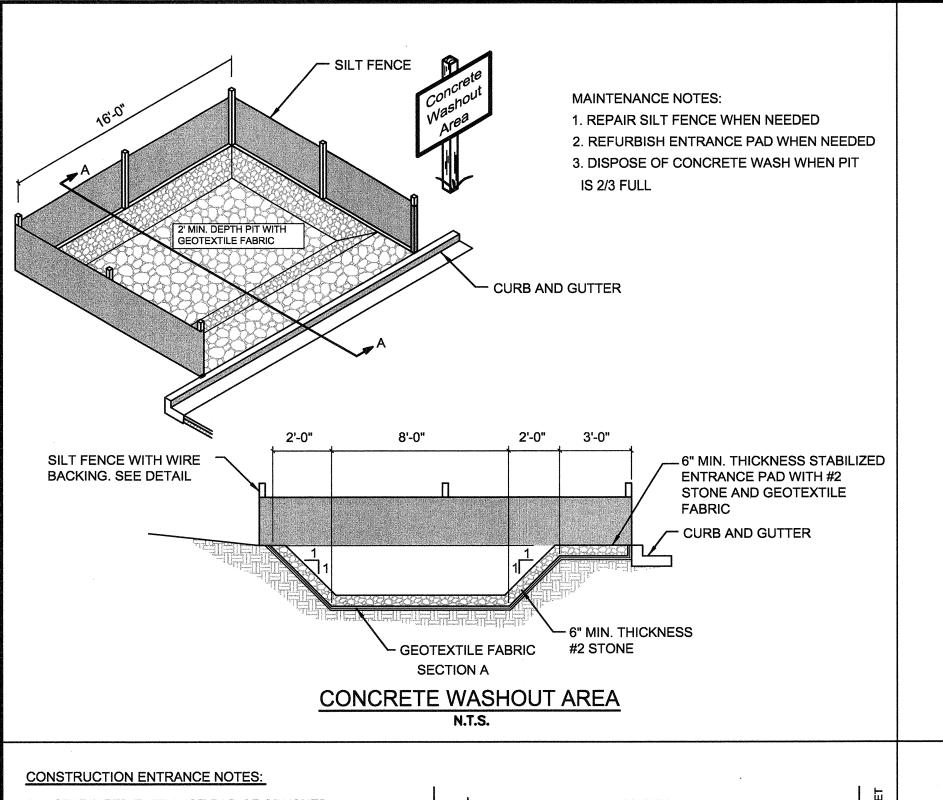
DATE MARCH, 2011

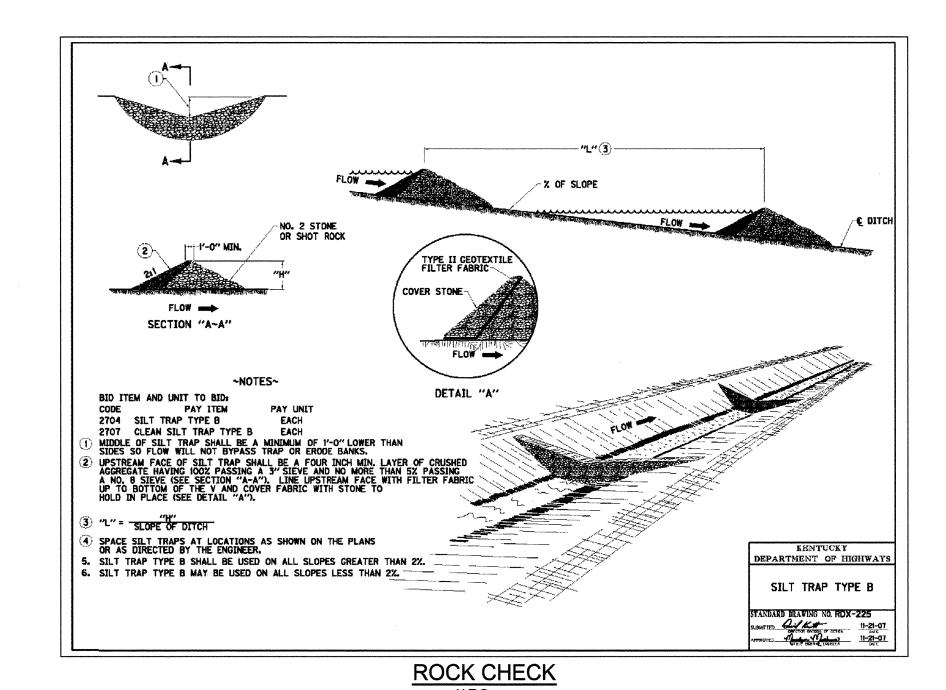
C-01-301

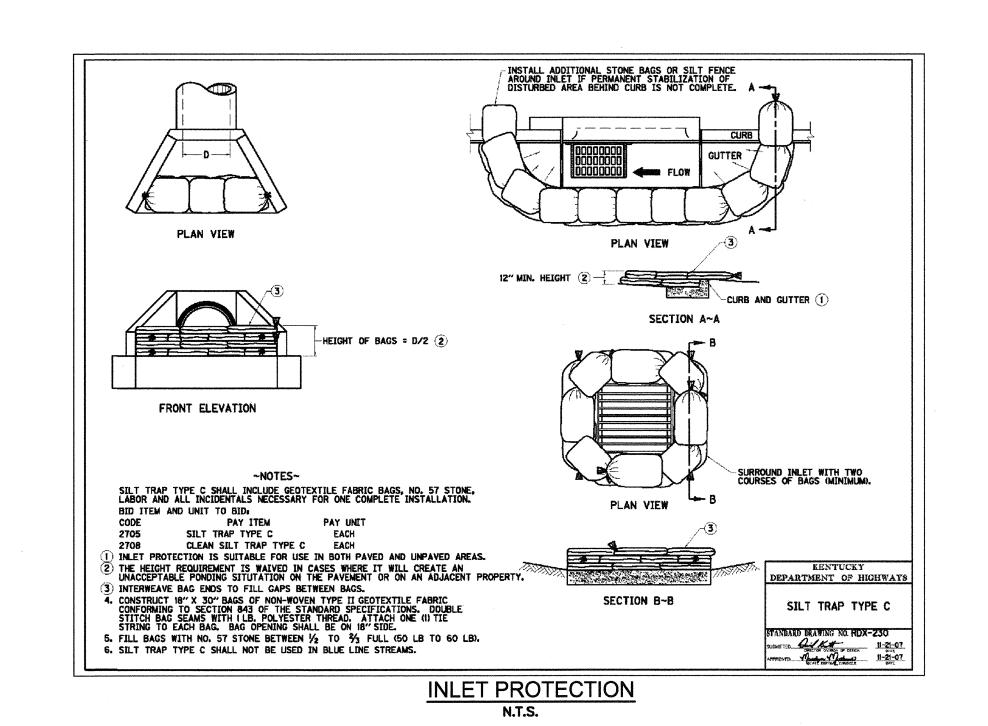
SCALE: 1" = 50' HORIZONTAL 1" = 5' VERTICAL

SHEET <u>C-01-301</u>
CAD REF. NO. <u>3789-C-01-301</u>

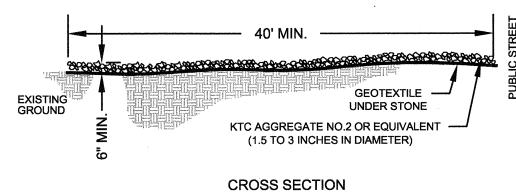


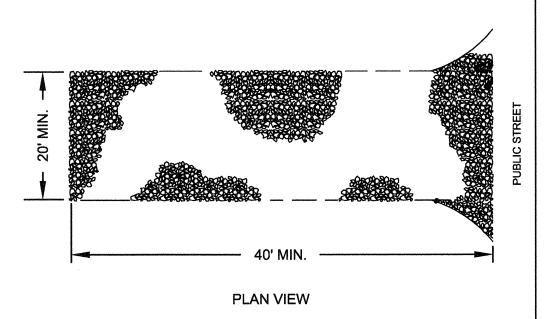






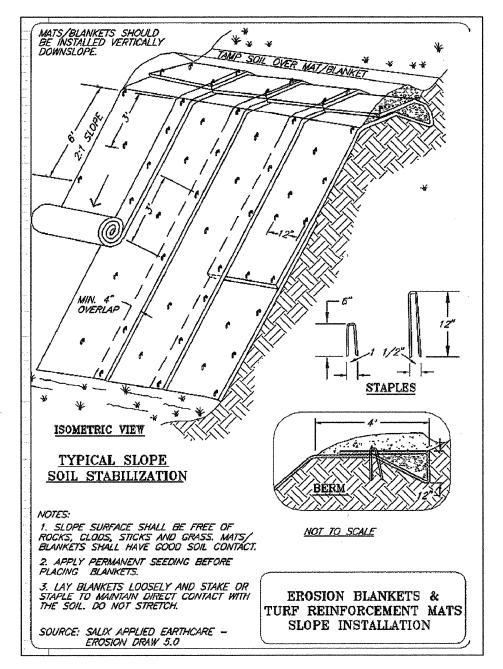
- 1. A STABILIZED ENTRANCE PAD OF CRUSHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL ENTER OR EXIT THE CONSTRUCTION SITE ONTO A PUBLIC STREET.
- 2. INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.
- 3. GEOTEXTILE FABRIC SHALL BE USED AS A BASE FOR THE CONSTRUCTION ENTRANCE.
- 4. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS WARRANT AND REPAIR OR CLEAN OUT OF ANY MEASURES USED TO TRAP
- 5. ANY SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC STREETS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- 6. WHEN APPROPRIATE, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.
- 7. REMOVE CONSTRUCTION ENTRANCES AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE SITE. BRING THE DISTURBED AREA TO GRADE, AND STABILIZE IT USING APPROPRIATE PERMANENT STABILIZATION METHODS.





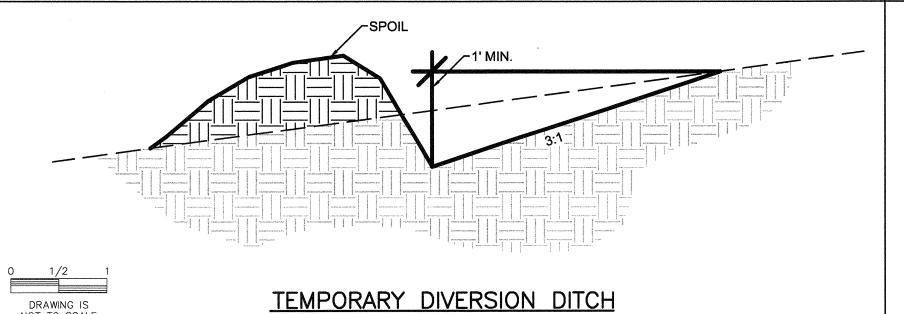
TYPICAL INTERCEPTOR DITCH CHANNEL LINING WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR EACH CLASS. CHANNEL LINING WILL NOT BE REQUIRED IN THE BOTTOM OF THE DITCH WHERE SOLID ROCK IS ENCOUNTERED. CHANNEL LINING ESTIMATED ON THE BASIS OF 0.50 TON PER SQ. YD. PER FOOT OF DEPTH. DEPARTMENT OF HIGHWAY WIDEN CHANNEL LINING NEAR OUTLET END OF STRUCTURE AS DIRECTED BY THE ENGINEER. FROM THE TOP OF THE LINING TO THE ORIGINAL GROUNDLINE. CHANNEL LINING ALTERNATE LOCATION OF GROUNDLINE. CLASS II AND III 4) 15" MIN. CLASS II, OR 24" MIN. CLASS III. TANDARD DRAWING NO. RDD-040-04 5. D = DEPTH TO PROTECT, T = THICKNESS, (SEE PLAN NOTES FOR THESE VALUES)

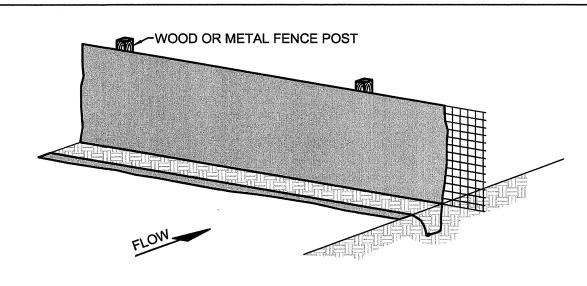
RIPRAP CHANNEL LINING



EROSION CONTROL BLANKET DETAIL

CONSTRUCTION ENTRANCE DETAIL





- 1. FENCE POST SHALL BE AT LEAST 5 FEET LONG, AND METAL FENCE SHALL BE AT LEAST 14 GAUGE, 36 INCHES HIGH, AND WITH OPENINGS NO LARGER THAN 6 INCHES X 6 INCHES. GEOTEXTILE FABRIC SHALL BE A MATERIAL RECOMMENDED FOR THIS USE BY THE MANUFACTURER
- 2. THE BOTTOM 12 INCHES OF FABRIC SHALL BE BURIED IN A 6 INCH TRENCH CUT INTO THE GROUND TO PREVENT SEDIMENT ESCAPING UNDER THE FENCE. ALL EARTHWORK SHALL BE ON THE UPSTREAM SIDE OF THE FENCE.
- 3. FENCE POST AND FABRIC WILL BE ACCEPTED BASED ON VISUAL INSPECTION BY THE ENGINEER IN THE FIELD; GEOTEXTILE FABRIC WILL BE ACCEPTED UPON RECEIPT OF A CERTIFICATION FROM THE MANUFACTURER THAT IT IS SUITABLE FOR USE AS SILT FENCE.
- 4. THE SILT FENCE SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. THE SILT FENCE SHALL BE ERECTED, BEFORE GRADING IS BEGUN, IN THE AREA TO BE PROTECTED. POSTS SHALL BE INSTALLED 6 TO 10 FEET SPACING (THE CLOSER SPACING SHOULD BE USED IN AREAS WHERE RAPID RUN OFF CAN BE EXPECTED) AND FENCE FABRIC ATTACHED. THE GEOTEXTILE FABRIC SHALL BE ATTACHED TO THE FENCE, ON THE UPSTREAM SIDE, USING STAPLES, HOG-RINGS, OR ANOTHER APPROVED METHOD.
- 5. DURING THE USEFUL LIFE OF SILT FENCE, IT SHALL BE MAINTAINED BY THE CONTRACTOR, AND SILT ACCUMULATIONS THAT THREATEN DAMAGE TO THE FENCE SHALL BE REMOVED. AFTER THE USEFULNESS OF THE FENCE HAS ENDED IT SHALL BE REMOVED AND DISPOSED OF, THE ACCUMULATED SILT EITHER BE REMOVED OR DRESSED IN PLACE AS DIRECTED, AND THE ENTIRE AREA SEEDED AND PROTECTED.

TEMPORARY SILT FENCE

NOT TO SCALE IF THIS DOES NOT

> REVISIONS 3/19/11 NO. BY DATE ES CJR MAW

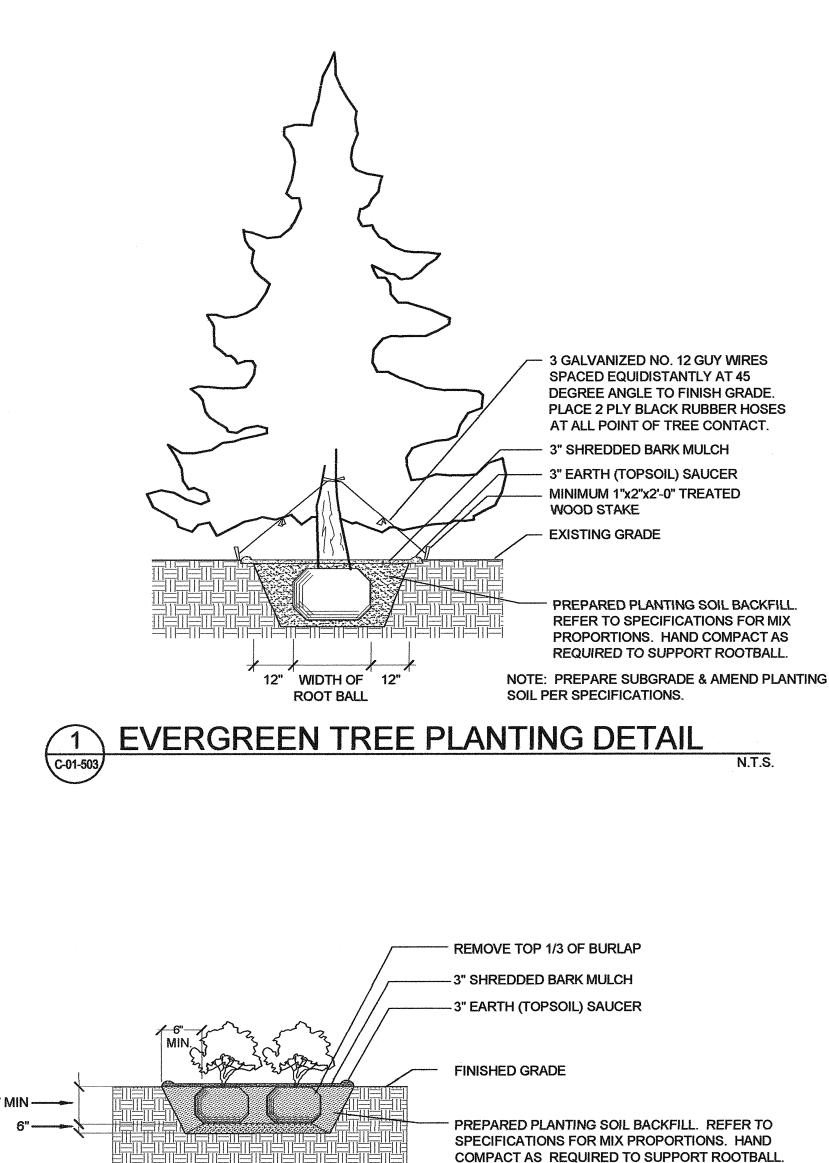
NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT **IMPROVEMENTS**

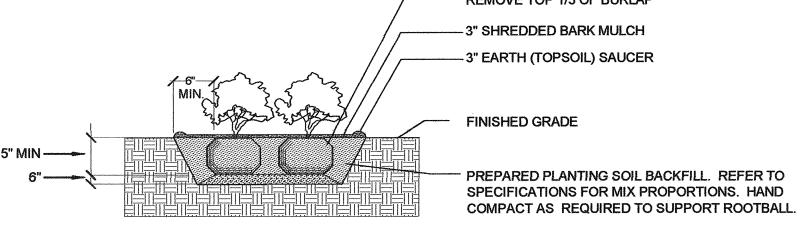
CIVIL **EROSION CONTROL DETAILS**

BID SET ISSUED STATUS: . MARCH, 2011

SCALE: NOT TO SCALE

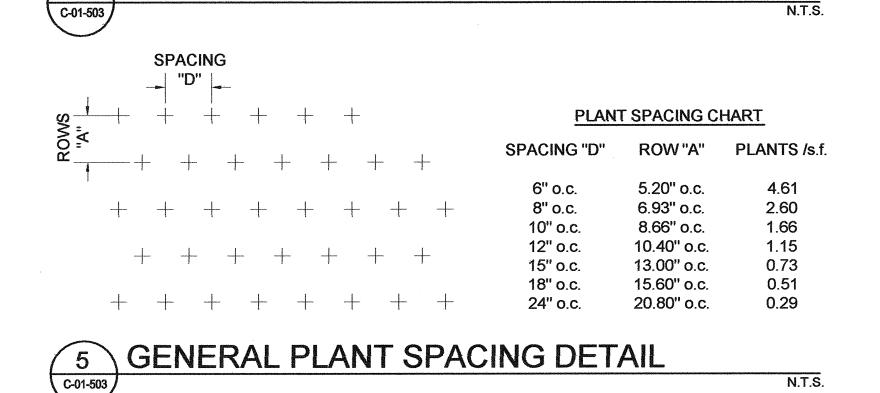
C-01-502 CAD REF. NO. STRAND-C-01-502

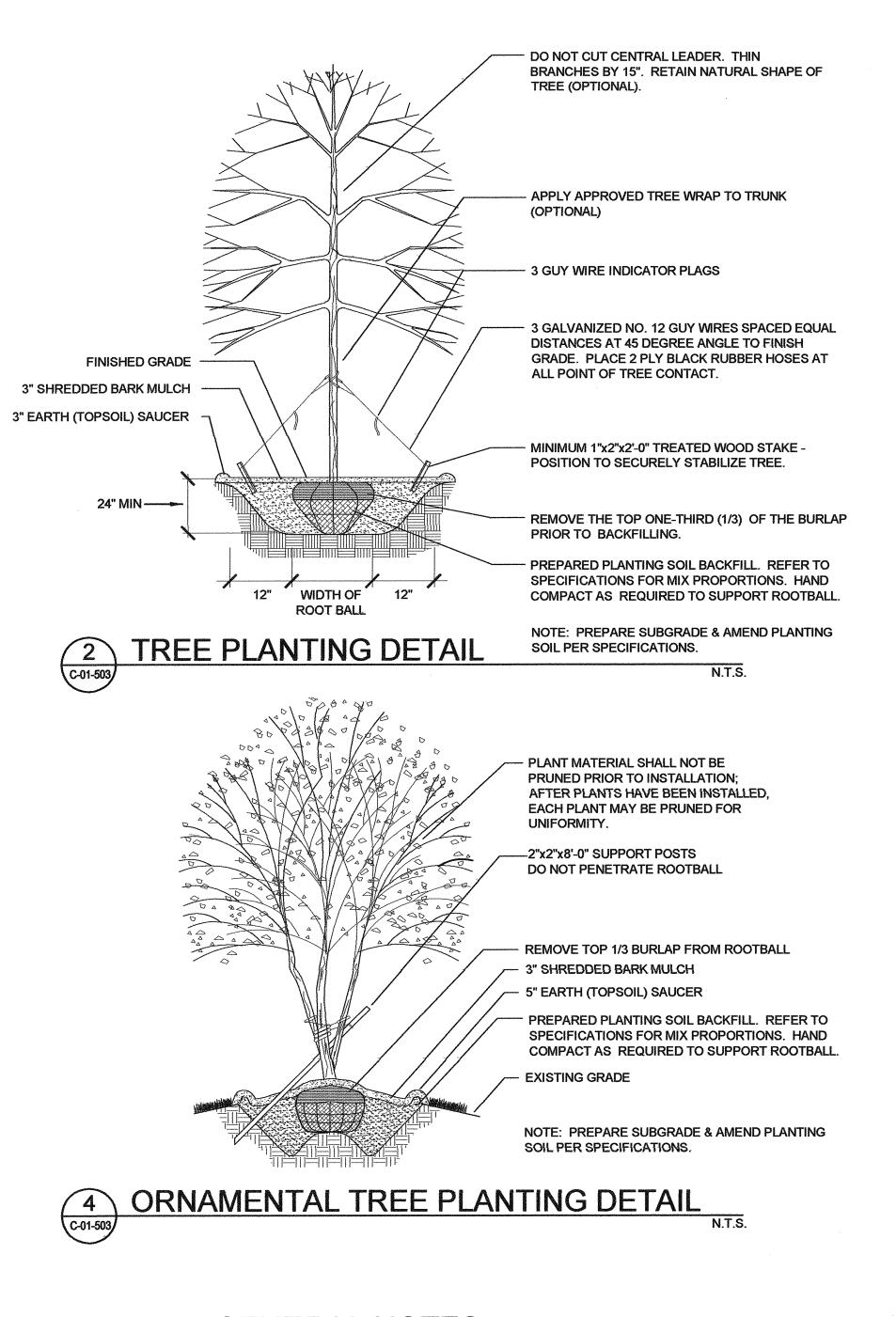




SHRUB PLANTING DETAIL

NOTE: PREPARE SUBGRADE & AMEND PLANTING SOIL PER SPECIFICATIONS.





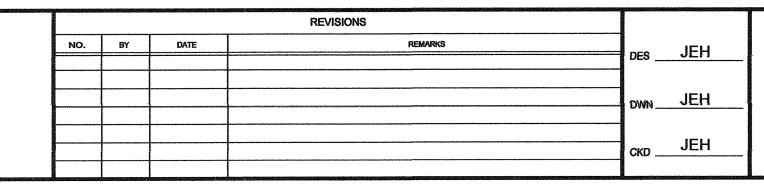
GENERAL NOTES:

- 1. ONLY NURSERY GROWN PLANT MATERIAL SHALL BE USED.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL OF ALL BINDING CORDS AND ROPES FROM THE TRUNKS OF ALL TREES AND SHRUBS.
- 3. ALL PLANT MATERIAL SHALL MEET THE CURRENT MINIMUM STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN AS SPECIFIED IN AMERICAN STANDARD FOR NURSERY STOCK. ALL PLANTING AREAS SHALL BE FILLED AND BACKFILLED WITH CLEAN TOPSOIL FREE OF BUILDING DEBRIS, CRUSHED ROCK, MORTAR MIX, ETC.

DRAWING IS NOT TO SCALE IF THIS DOES NOT







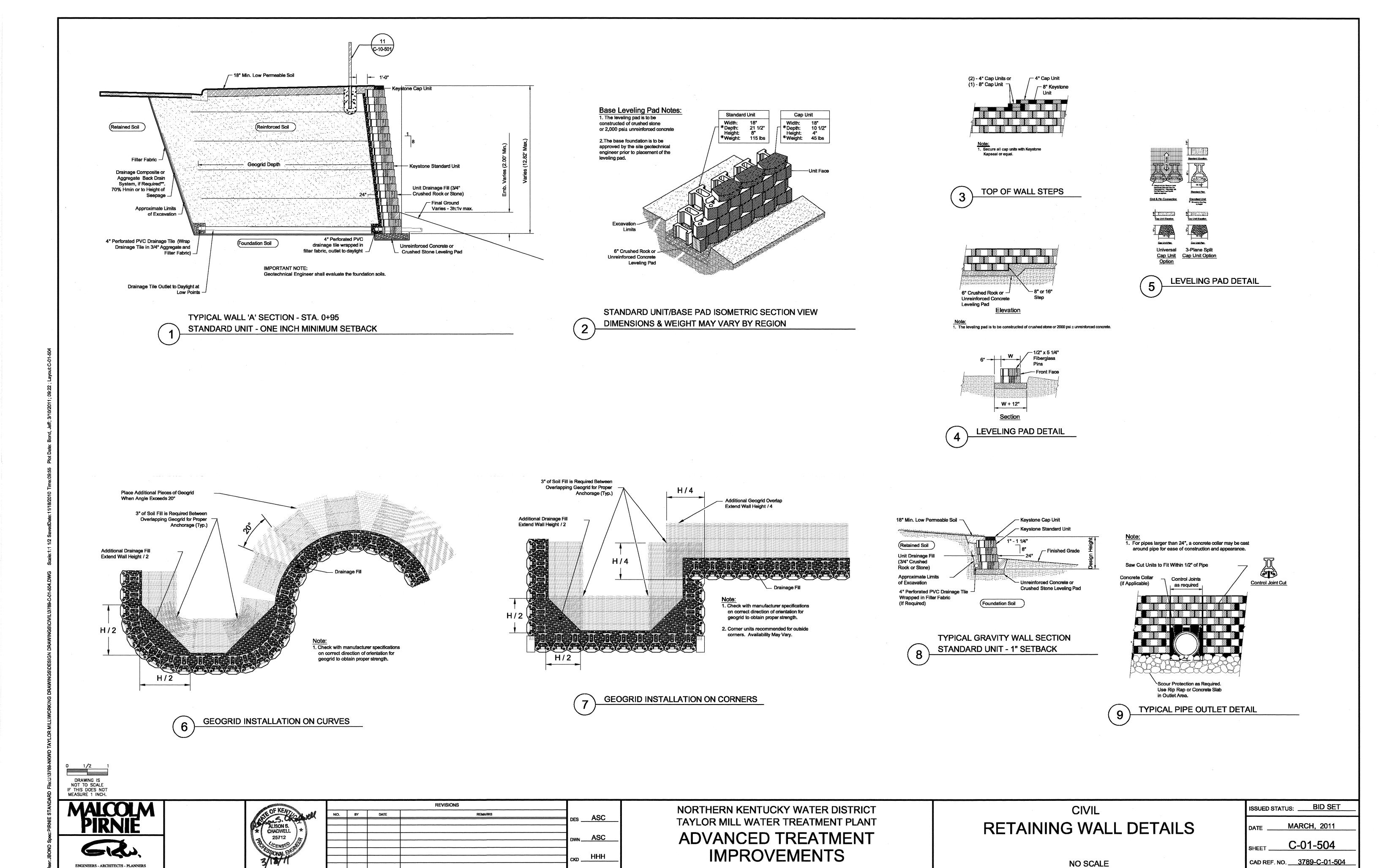
NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT

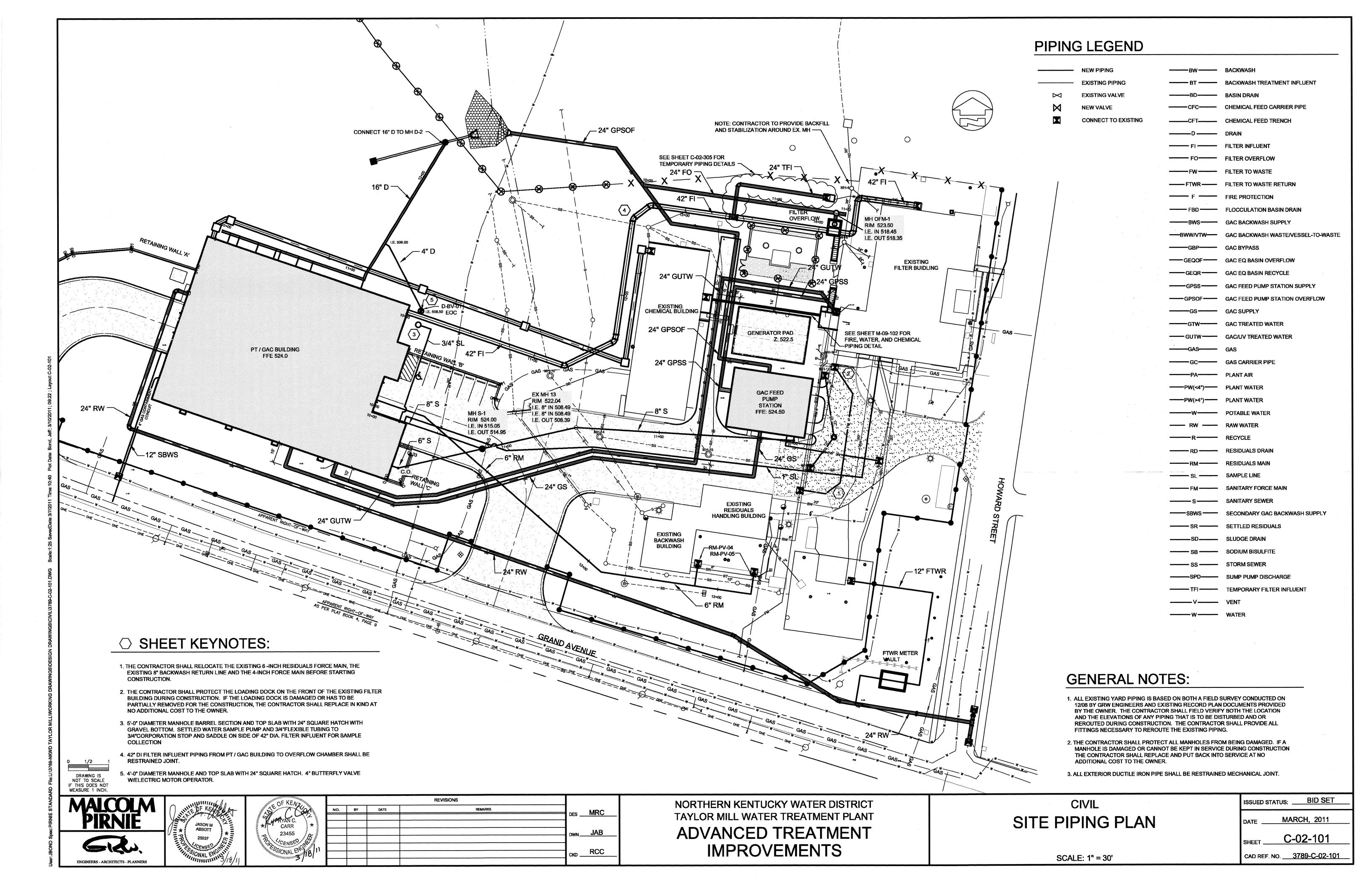
ADVANCED TREATMENT **IMPROVEMENTS**

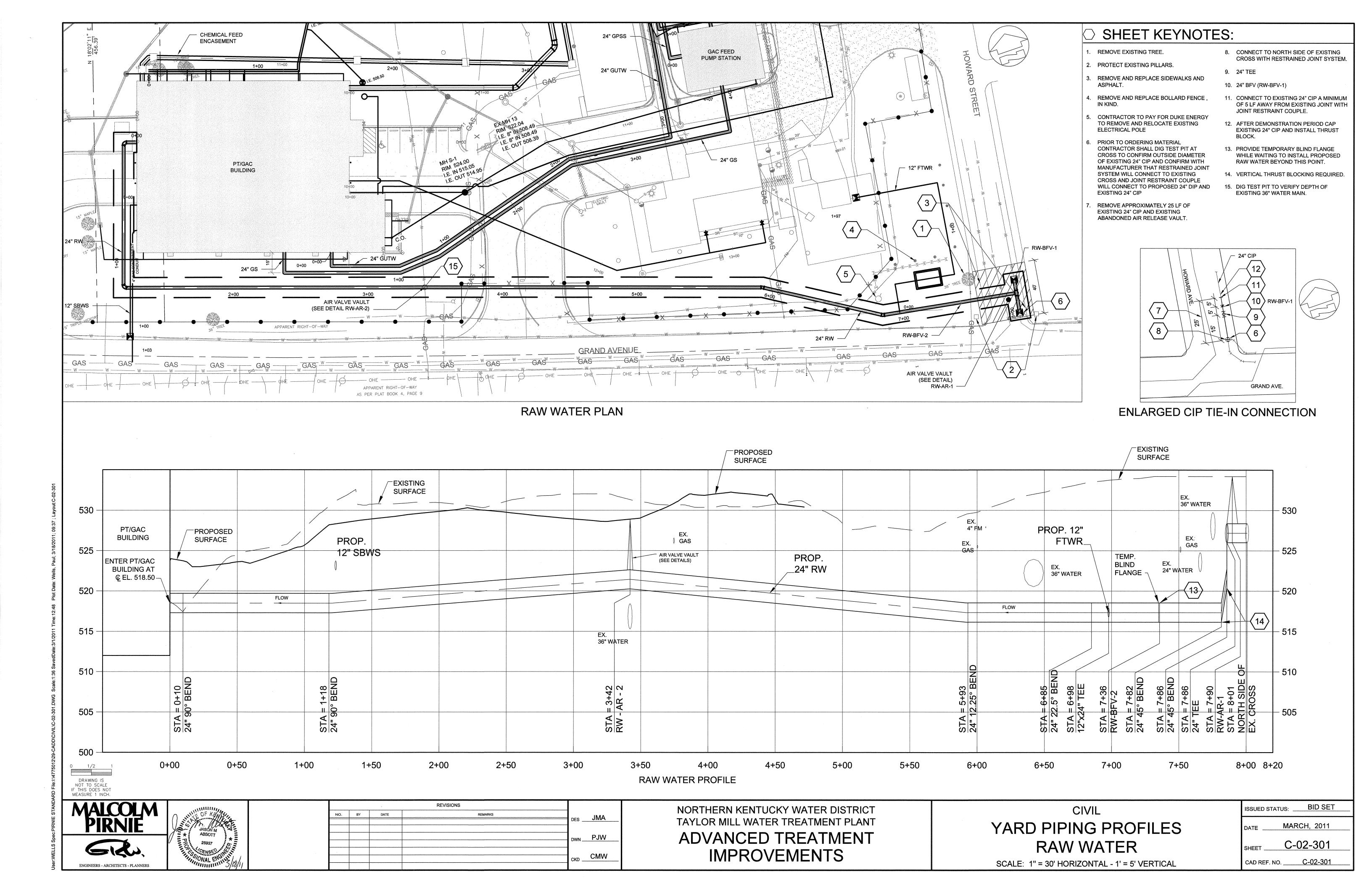
CIVIL LANDSCAPING **DETAILS AND NOTES**

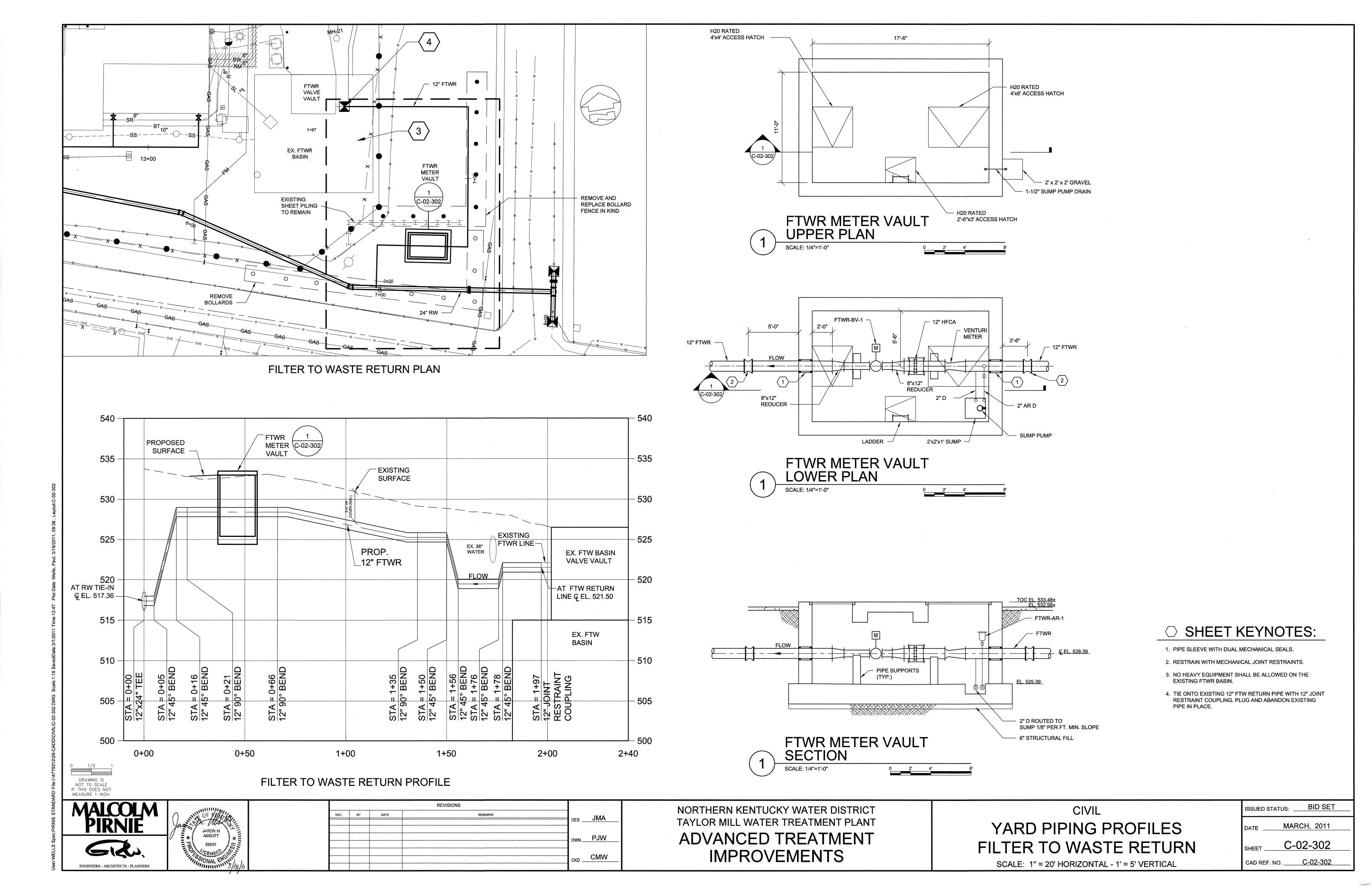
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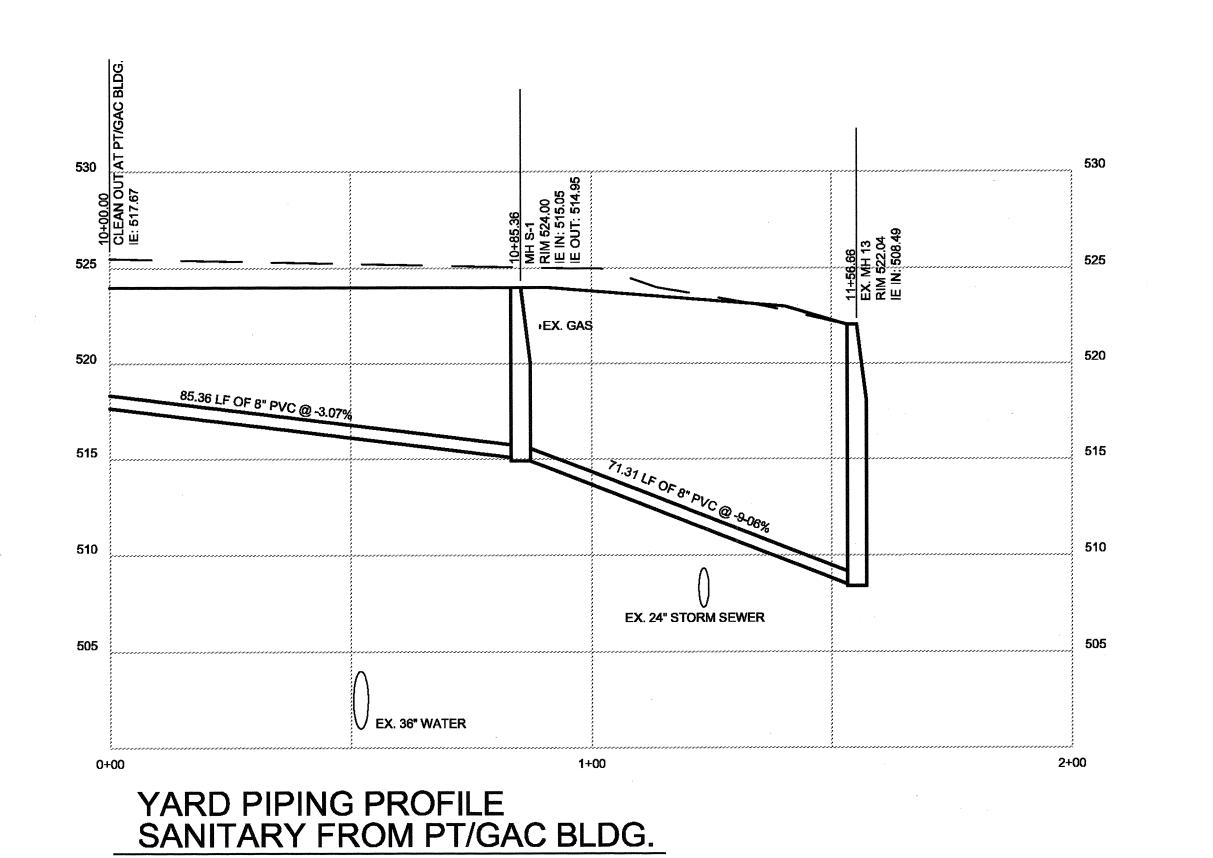
BID SET SSUED STATUS: _ MARCH, 2011 C-01-503 CAD REF. NO. <u>CDP-C-01-503</u>

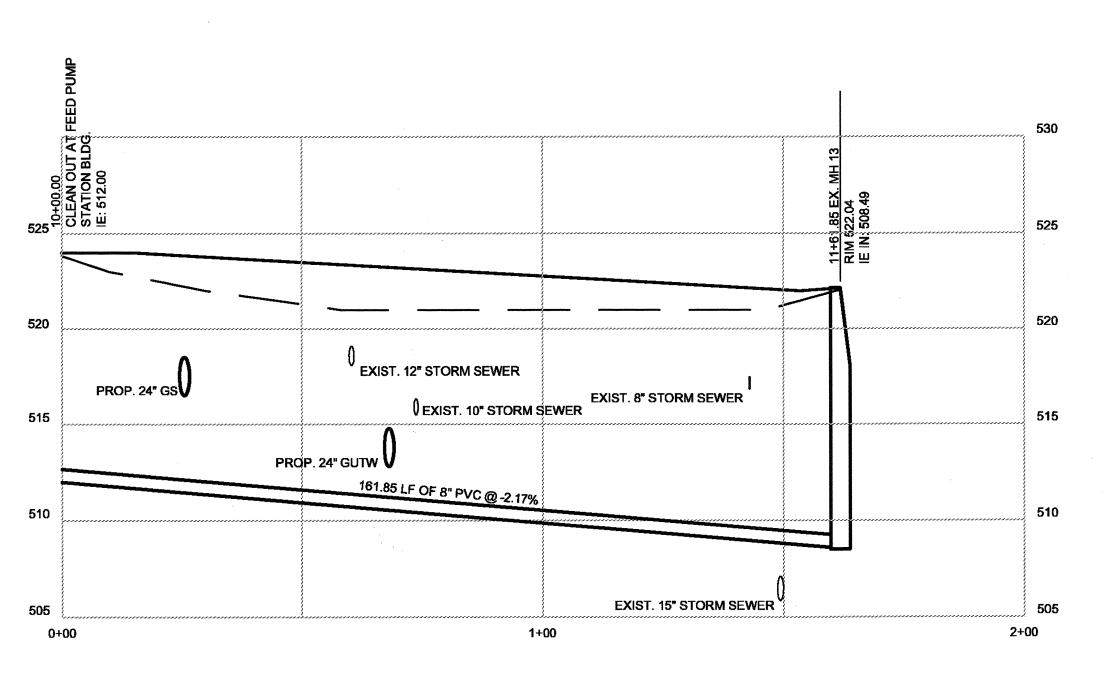




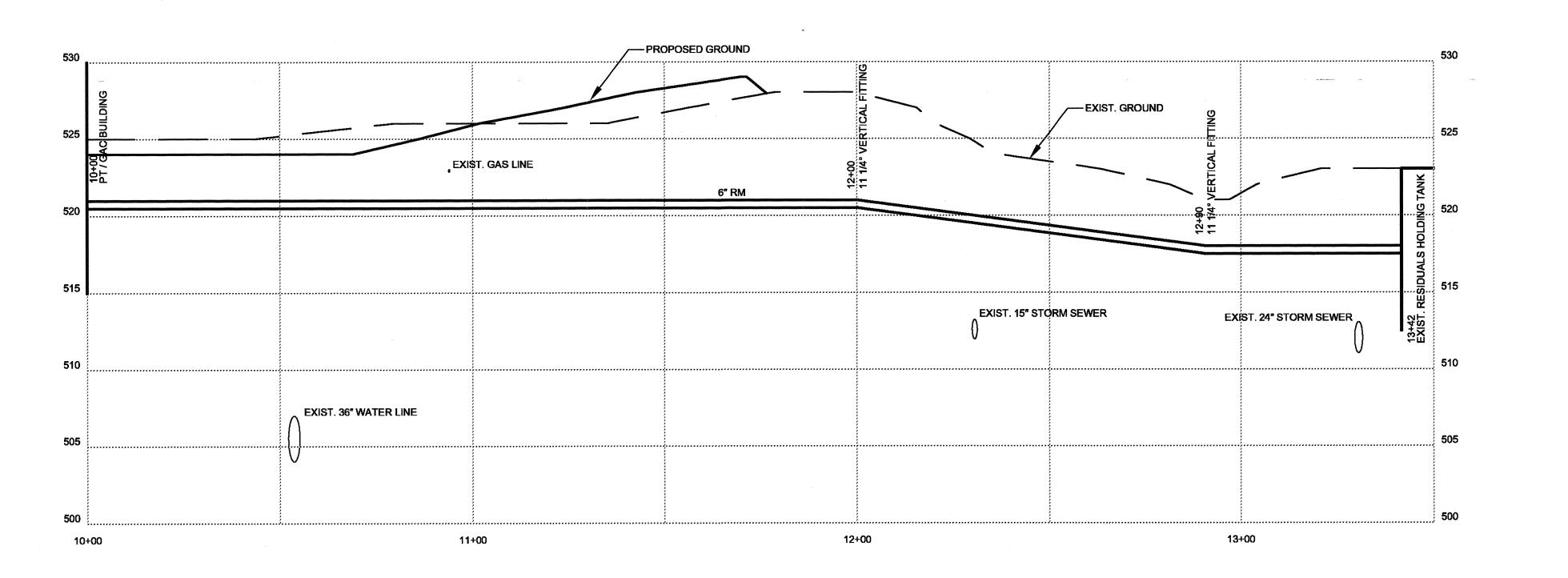








YARD PIPING PROFILE SANITARY FROM FEED PUMP STATION SCALE: 1"=20'-0"



YARD PIPING PROFILE PRETREATMENT RESIDUALS

MALCOLM PIRNIE



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NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT **IMPROVEMENTS**

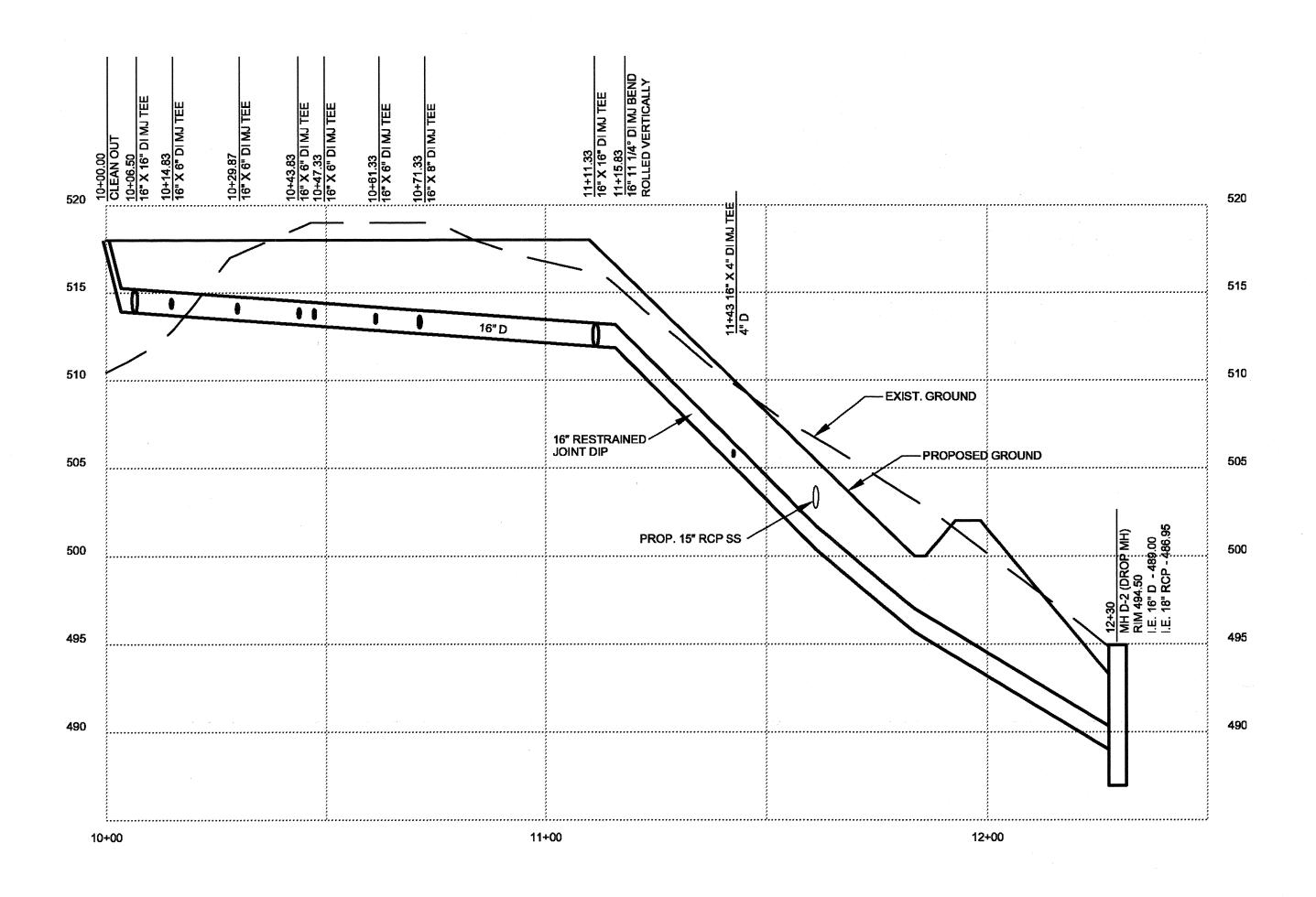
YARD PIPING PROFILES - SANITARY AND PRETREATMENT RESIDUALS

ISSUED STATUS: BID SET MARCH, 2011 SHEET ______C-02-303

CAD REF. NO. <u>3789-C-02-303</u>

CIVIL

SCALE: 1" = 20'



YARD PIPING PROFILE PRETREATMENT DRAIN

MALCOLM PIRNIE



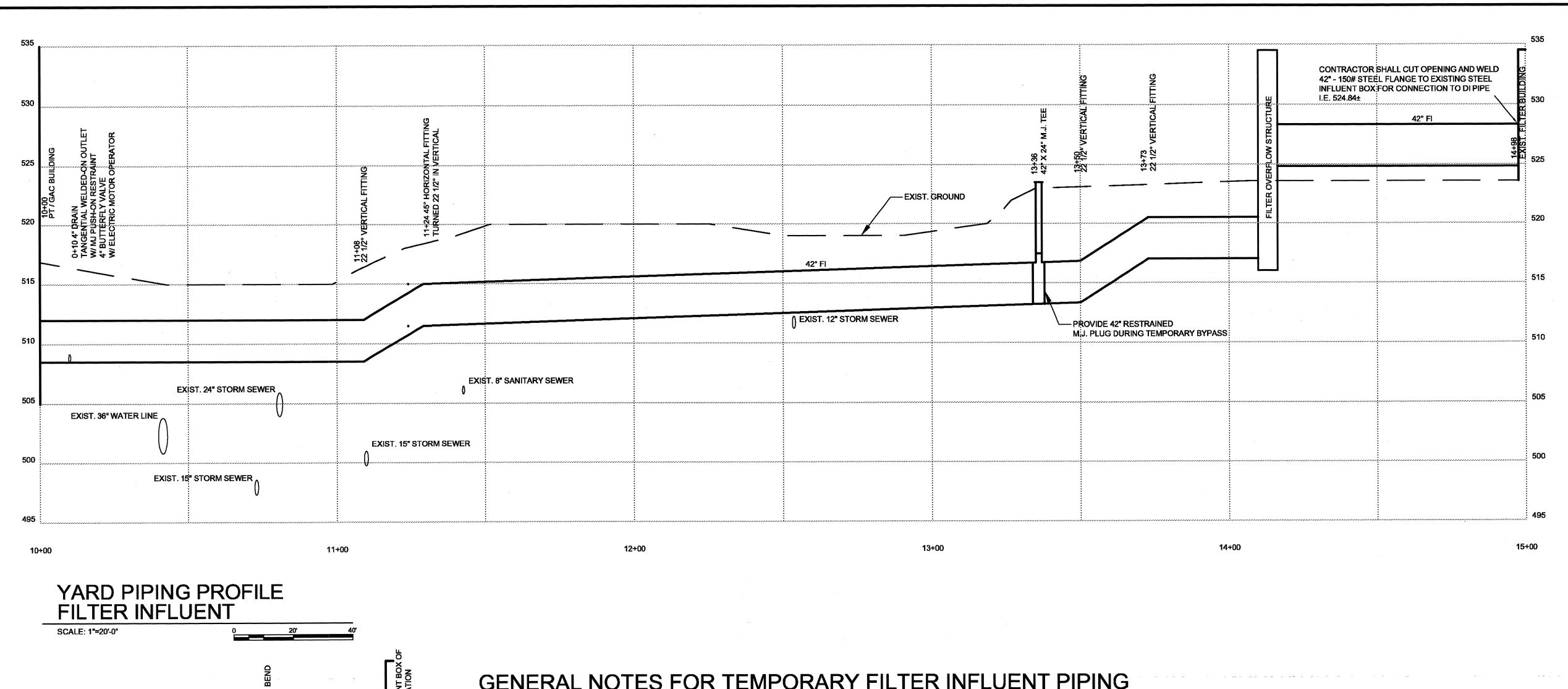
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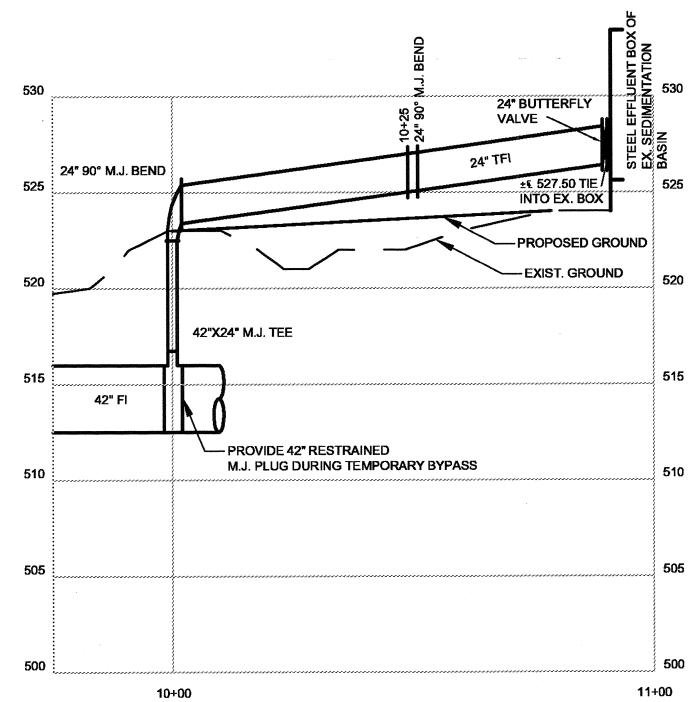
NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT **IMPROVEMENTS**

CIVIL YARD PIPING PROFILES PRETREATMENT DRAIN

SCALE: 1" = 20'

ISSUED STATUS: BID SET DATE MARCH, 2011 SHEET ______C-02-304 CAD REF. NO. <u>3789-C-02-304</u>

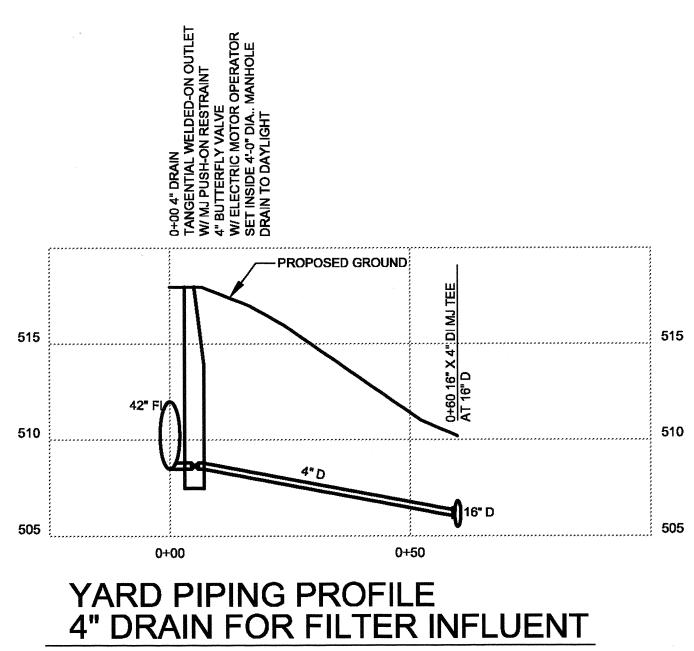




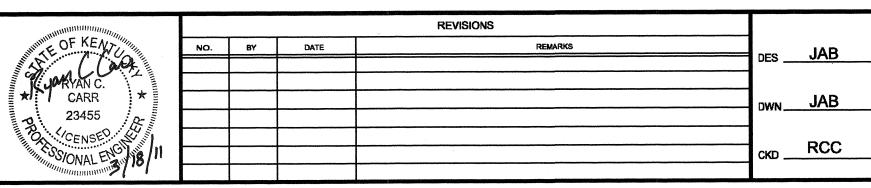
YARD PIPING PROFILE TEMPORARY FILTER INFLUENT

GENERAL NOTES FOR TEMPORARY FILTER INFLUENT PIPING

- 1. TEMPORARY FILTER INFLUENT PIPING SHALL BE 24" AWWA C-905 C.I. O.D. D.R. 25 PVC
- 2. PVC TO PVC STRAIGHT BELL CONNECTIONS SHALL HAVE BELL HARNESS CLAMPS SERIES 2500 EBAA IRON, OR APPROVED EQUAL.
- 3. UNLESS OTHERWISE NOTED, ALL FITTINGS SHALL BE M.J. DUCTILE IRON.
- 5. TEMPORARY 24" PIPE SHALL BE INSTALLED ABOVE GROUND IMMEDIATELY ADJACENT TO THE NORTH WALL OF THE NORTH SEDIMENTATION BASIN. PIPE SHALL NOT BE ANCHORED TO THE SEDIMENTATION BASIN WALL. 6'-0" METAL FENCE POSTS SHALL BE HAND DRIVEN MINIMUM 3'-0" TO STABILIZE THE LINE @ 10'-0" INTERVALS.
- 6. DUE TO THE INSTABILITY OF THE SLOPE TO THE NORTH OF THE SEDIMENTATION BASIN, NO HEAVY EQUIPMENT WILL BE PERMITTED
- 8. CONTRACTOR SHALL CUT OPENING AND WELD 24" 150# STEEL FLANGE TO EXISTING STEEL EFFLUENT BOX AND INSTALL 24" FLANGED BUTTERFLY VALVE. CONNECTION FROM BUTTERFLY VALVE FLANGE TO PVC PIPE SHALL BE ACCOMPLISHED WITH 24" - 125# DUCTILE IRON FLANGE COUPLING ADAPTER W/LOCKING RETAINER GLAND.
- 9. 24" RESTRAINED M.J. PLUG TO BE INSTALLED ON 42" X 24" TEE AT COMPLETION OF 24" BYPASSING.
- 10. CONTRACTOR SHALL REMOVE EXISTING WOODEN STAIR ACCESS TO THE STEEL EFFLUENT BOX ADJACENT TO THE NORTH SEDIMENTATION BASIN AND PROVIDE TEMPORARY HANDRAIL AS REQUIRED.



DRAWING IS NOT TO SCALE IF THIS DOES NOT MEASURE 1 INCH.



NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT

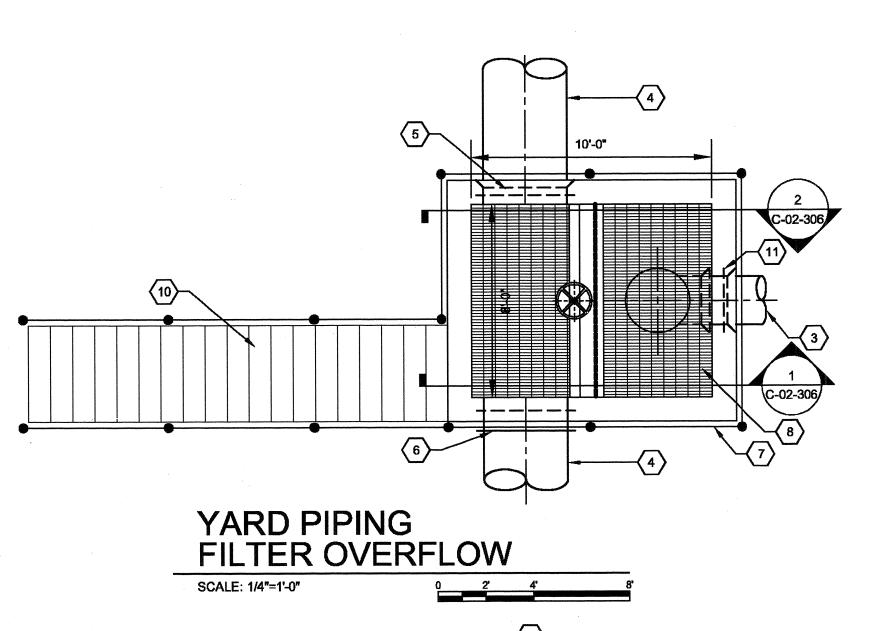
ADVANCED TREATMENT **IMPROVEMENTS**

CIVIL YARD PIPING PROFILES FILTER INFLUENT

SCALE: 1" = 20'

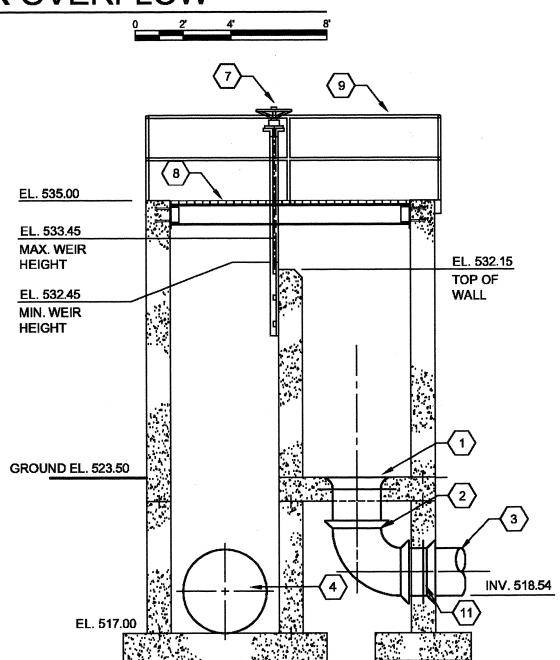
ISSUED STATUS: BID SET MARCH, 2011 C-02-305

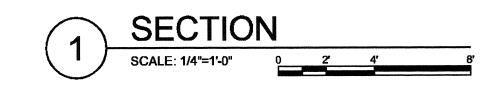
CAD REF. NO. 3789-C-02-305

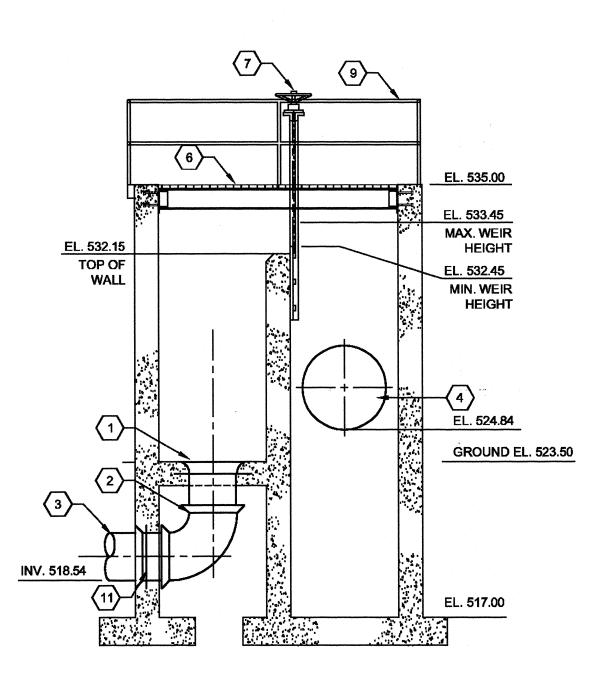


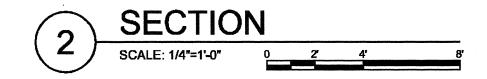
○ SHEET KEYNOTES:

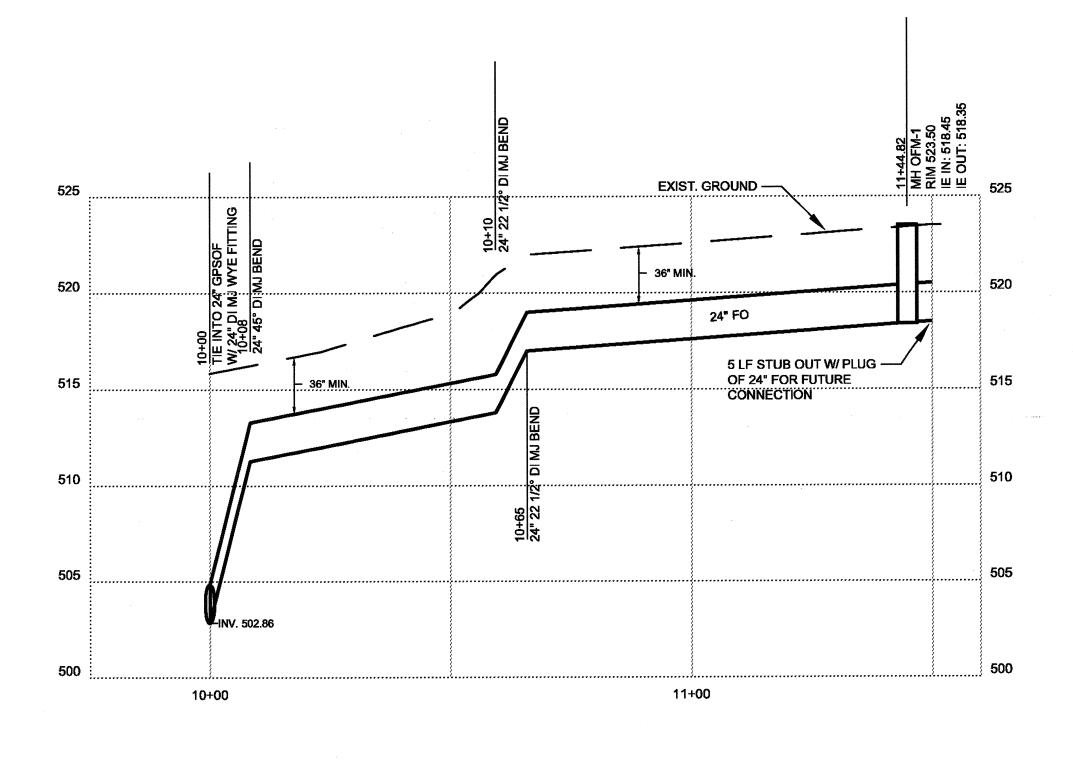
- 24" DI FLARE
- 2. 24" DI 90° MJ BEND
- 3. 24" DI PIPE
- 4. 42" DI PIPE
- 5. 42" DI WALL PIPE, PE X MJ, TAPPED FOR STUDS
- 6. 42" DI WALL PIPE, PE X FLG
- 7. 8'-0" X 4'-0" HANDWHEEL OPERATED S.S. WEIR GATE
- 8. ALUMINUM GRATING
- 9. ALUMINUM HANDRAIL W/TOEBOARD (SIDE MOUNT)
- 10. ALUMINUM STAIR
- 11. 24" DI WALL PIPE, PE X MJ, TAPPED FOR STUDS



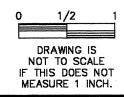














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NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT

IMPROVEMENTS

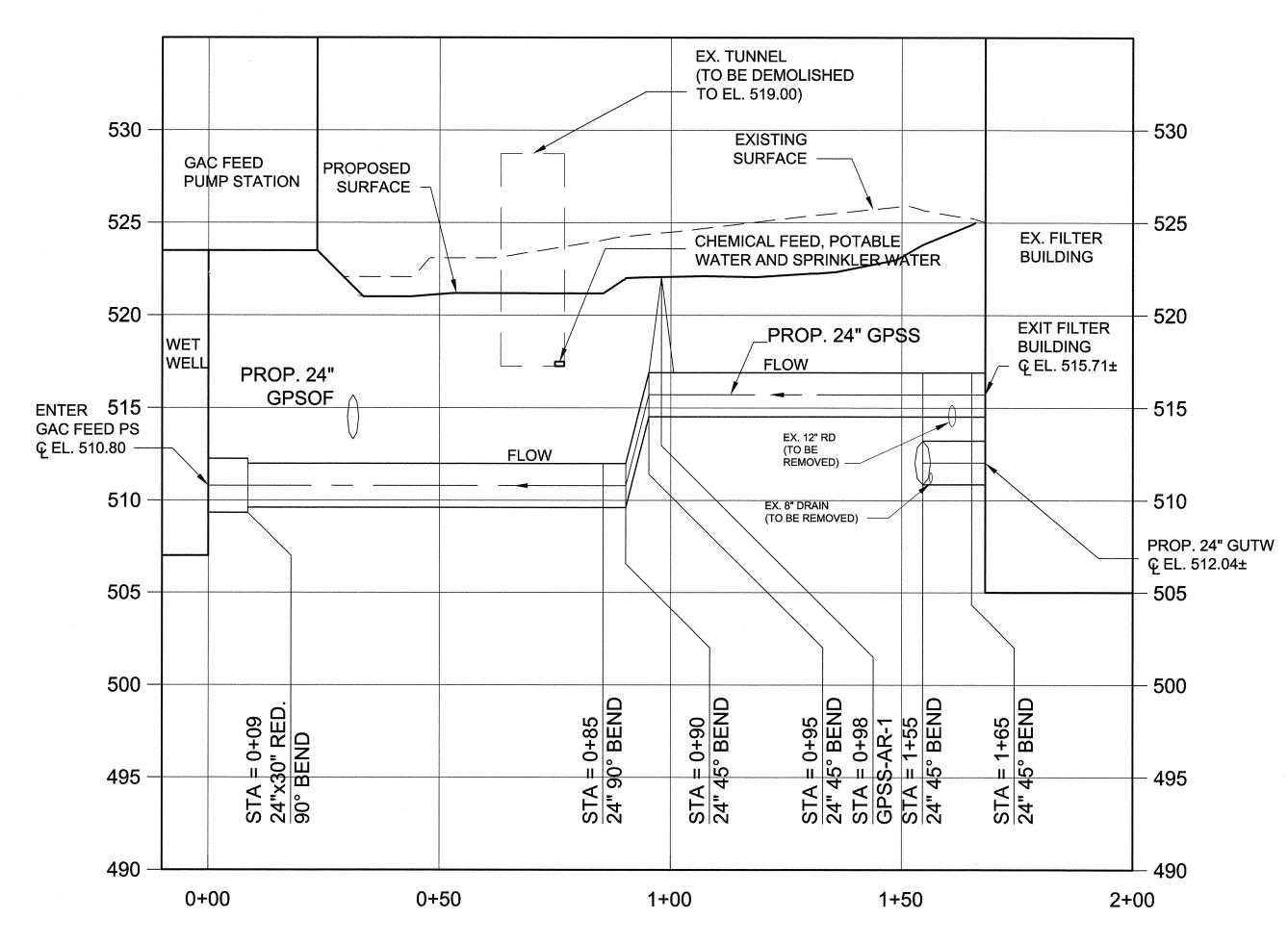
CIVIL YARD PIPING PROFILES FILTER OVERFLOW

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

MARCH, 2011 SHEET ______C-02-306 CAD REF. NO. <u>3789-C-02-306</u>

ISSUED STATUS: BID SET

GAC FEED PUMP STATION SUPPLY PLAN

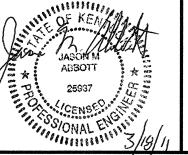


GAC FEED PUMP STATION SUPPLY PROFILE

MEASURE 1 INCH.

MALCOLM
PIRNIE

ENGINEERS - ARCHITECTS - PLANNERS



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NORTHERN KENTUCKY WATER DISTRICT
TAYLOR MILL WATER TREATMENT PLANT

ADVANCED TREATMENT IMPROVEMENTS

YARD PIPING PROFILES
GAC FEED PUMP STATION SUPPLY

SCALE: 1" = 20' HORIZONTAL - 1' = 5' VERTICAL

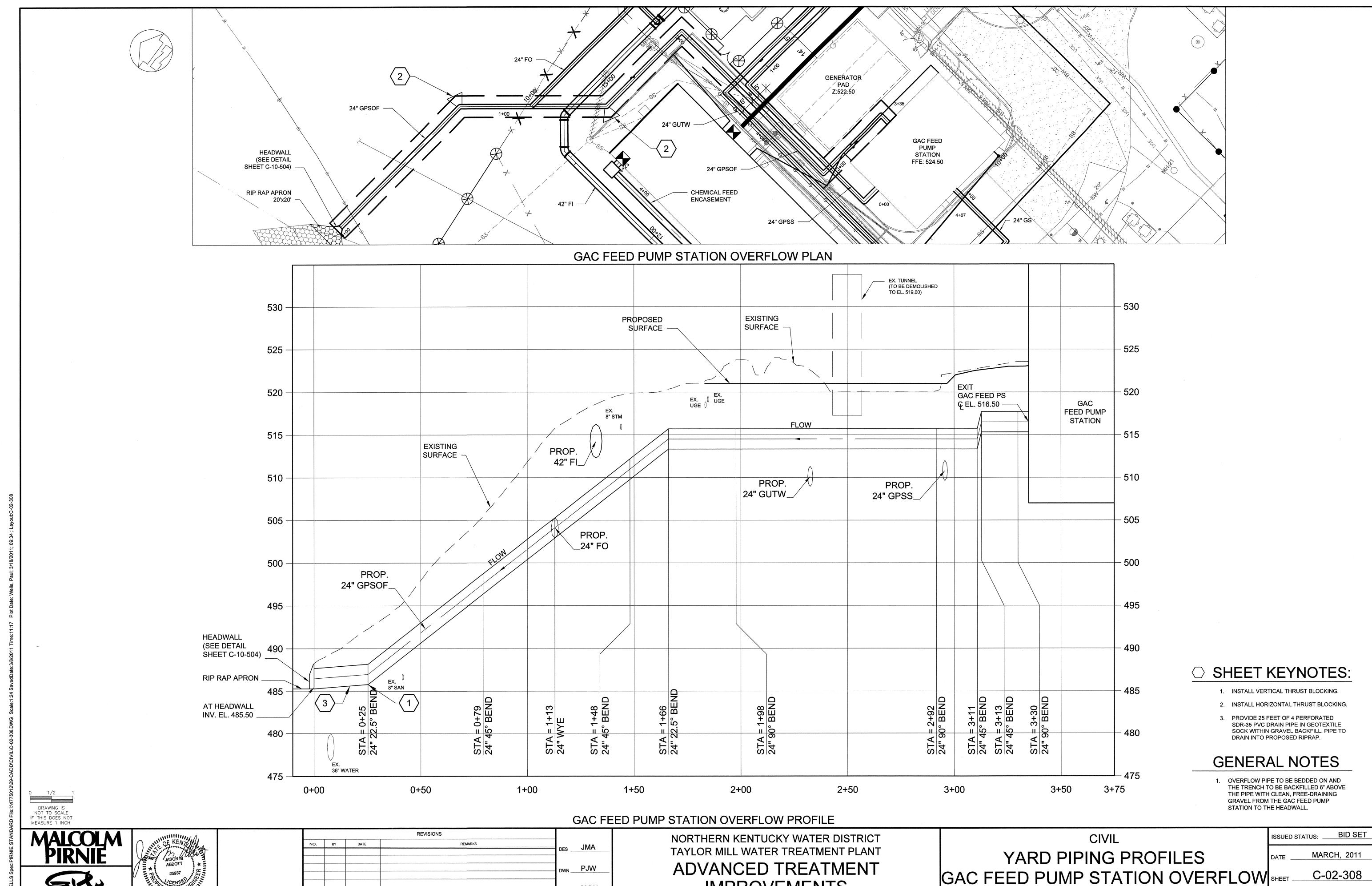
DATE _______ MARCH, 2011

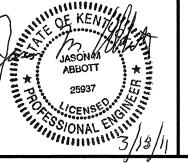
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CAD REF. NO. _____ C-02-307

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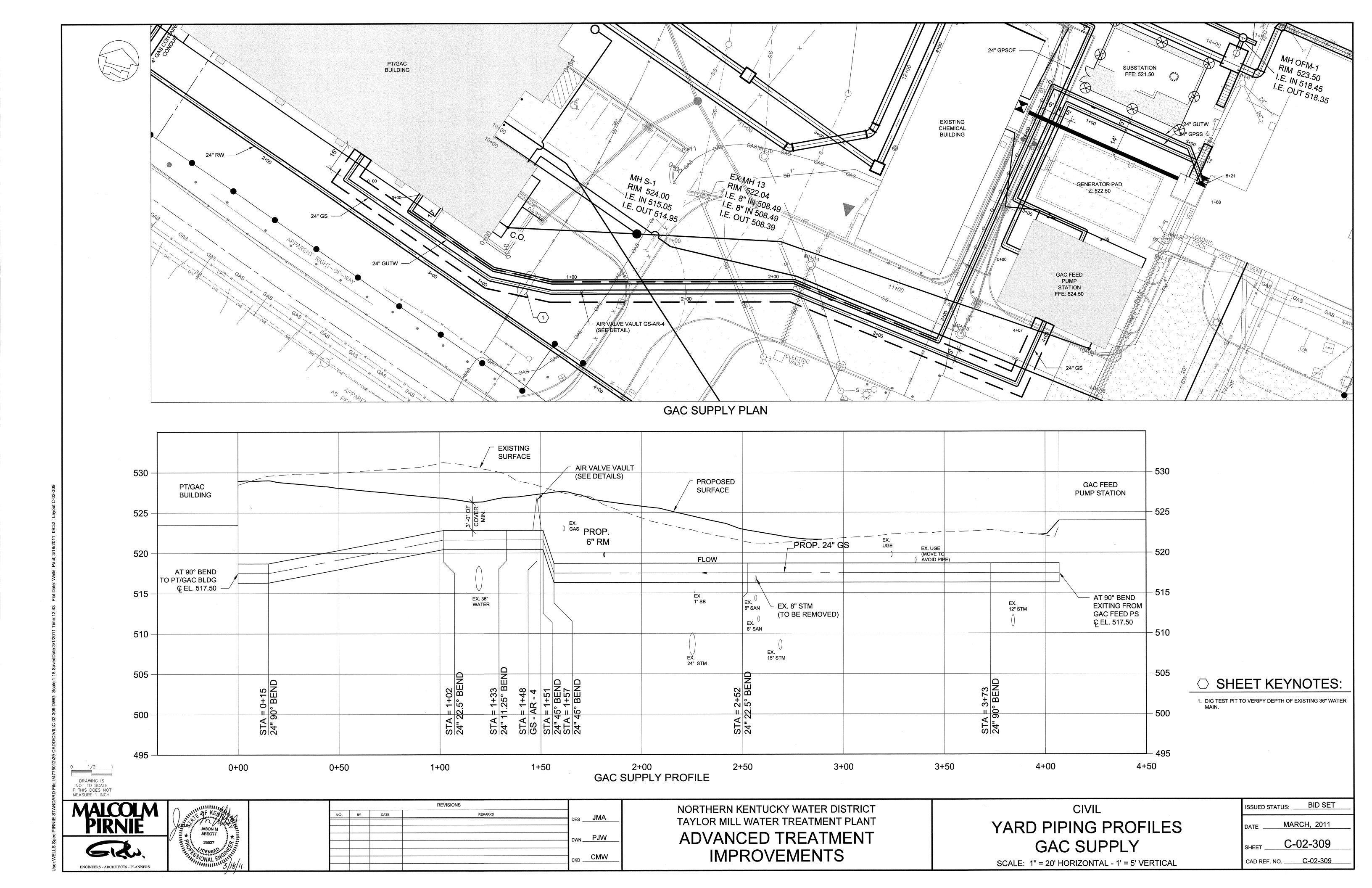


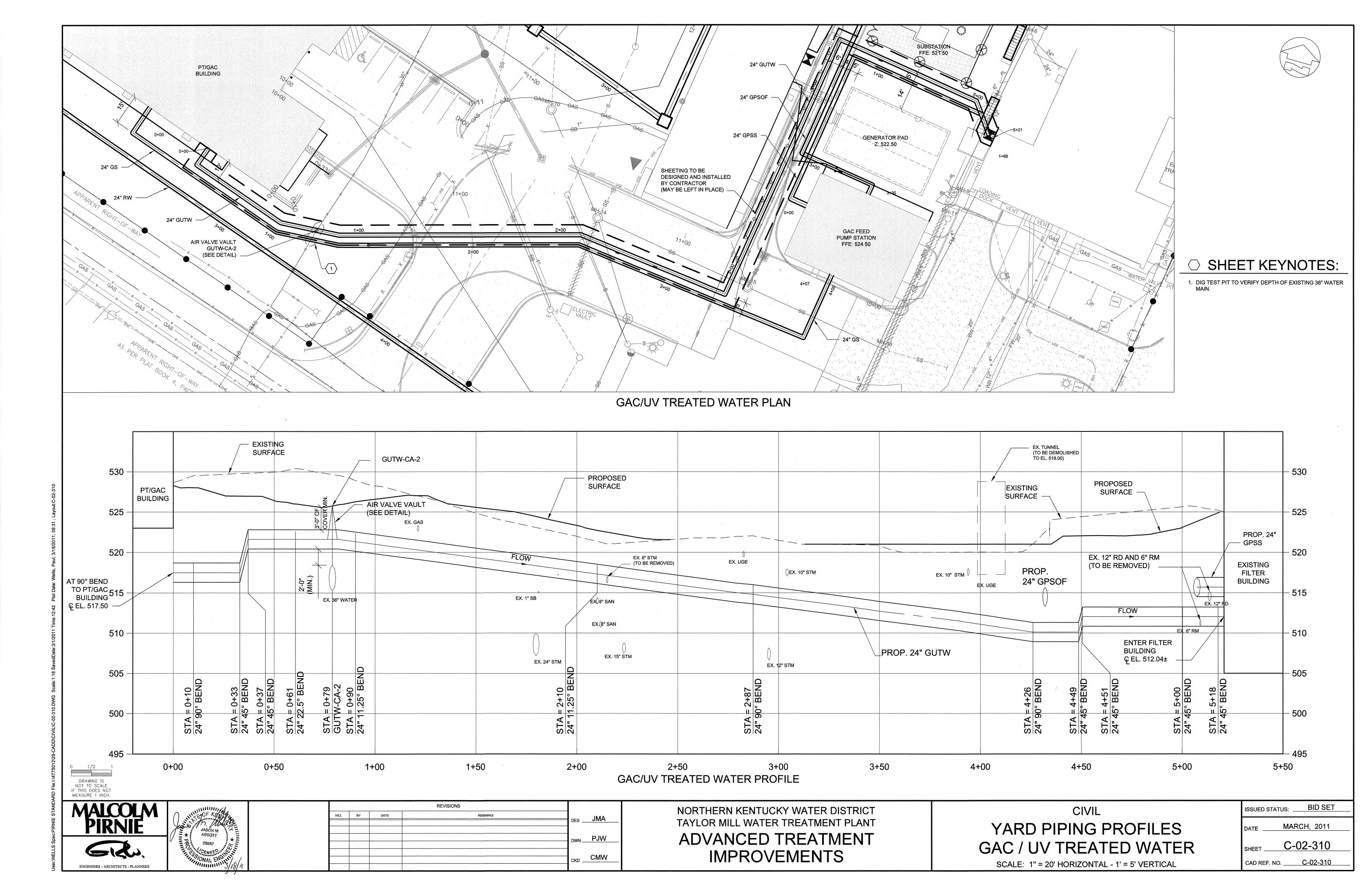
CKD CMW

IMPROVEMENTS

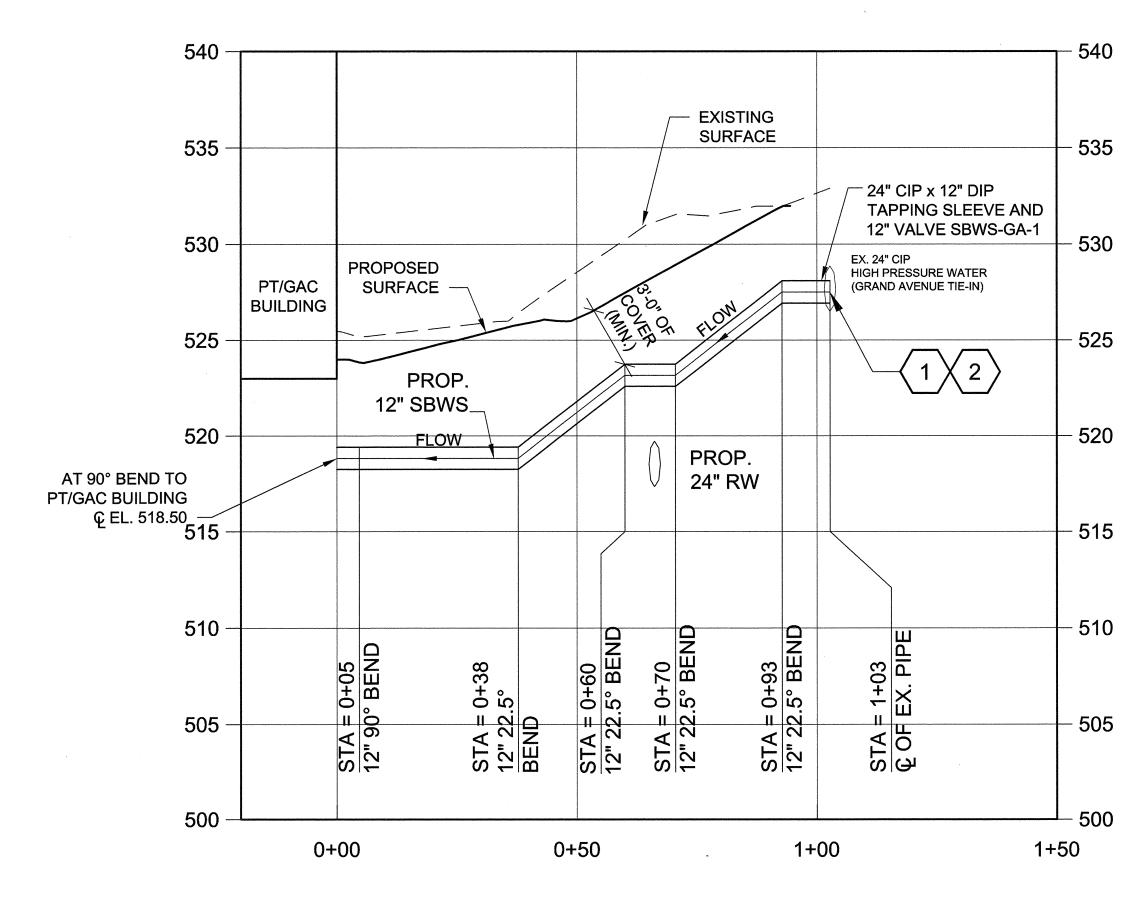
CAD REF. NO. <u>C-02-308</u>

SCALE: 1" = 20' HORIZONTAL - 1" = 5' VERTICAL





SECONDARY BACKWASH SUPPLY PLAN



SECONDARY BACKWASH SUPPLY PROFILE

○ SHEET KEYNOTES:

 PRIOR TO ORDERING TAPPING SLEEVE CONTRACTOR SHALL DIG TEST PIT TO CONFIRM OUTSIDE DIAMETER AND CLASS OF EXISTING 24" CIP HIGH PRESSURE WATER MAIN AND CONFIRM WITH MANUFACTURER THAT TAPPING TEE WILL CONNECT TO EXISTING 24" CIP WITH A WATERTIGHT SEAL AT 200 PSIG.

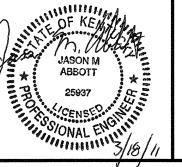
2. WET TAP

3. REMOVE AND REPLACE ASPHALT

DRAWING IS
NOT TO SCALE
IF THIS DOES NOT
MEASURE 1 INCH.

MALCOLM
PIRNIE

ENGINEERS - ARCHITECTS - PLANNERS



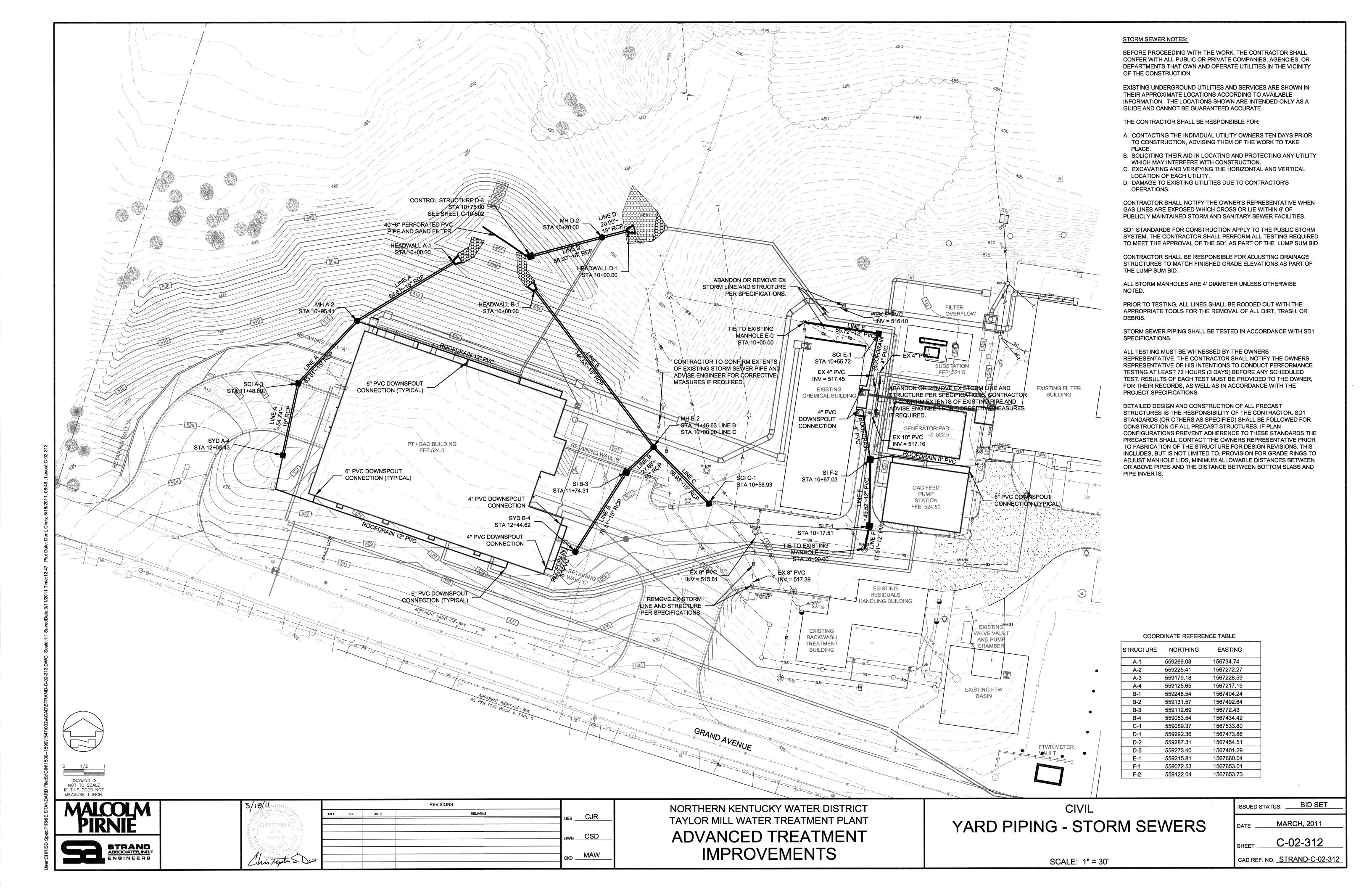
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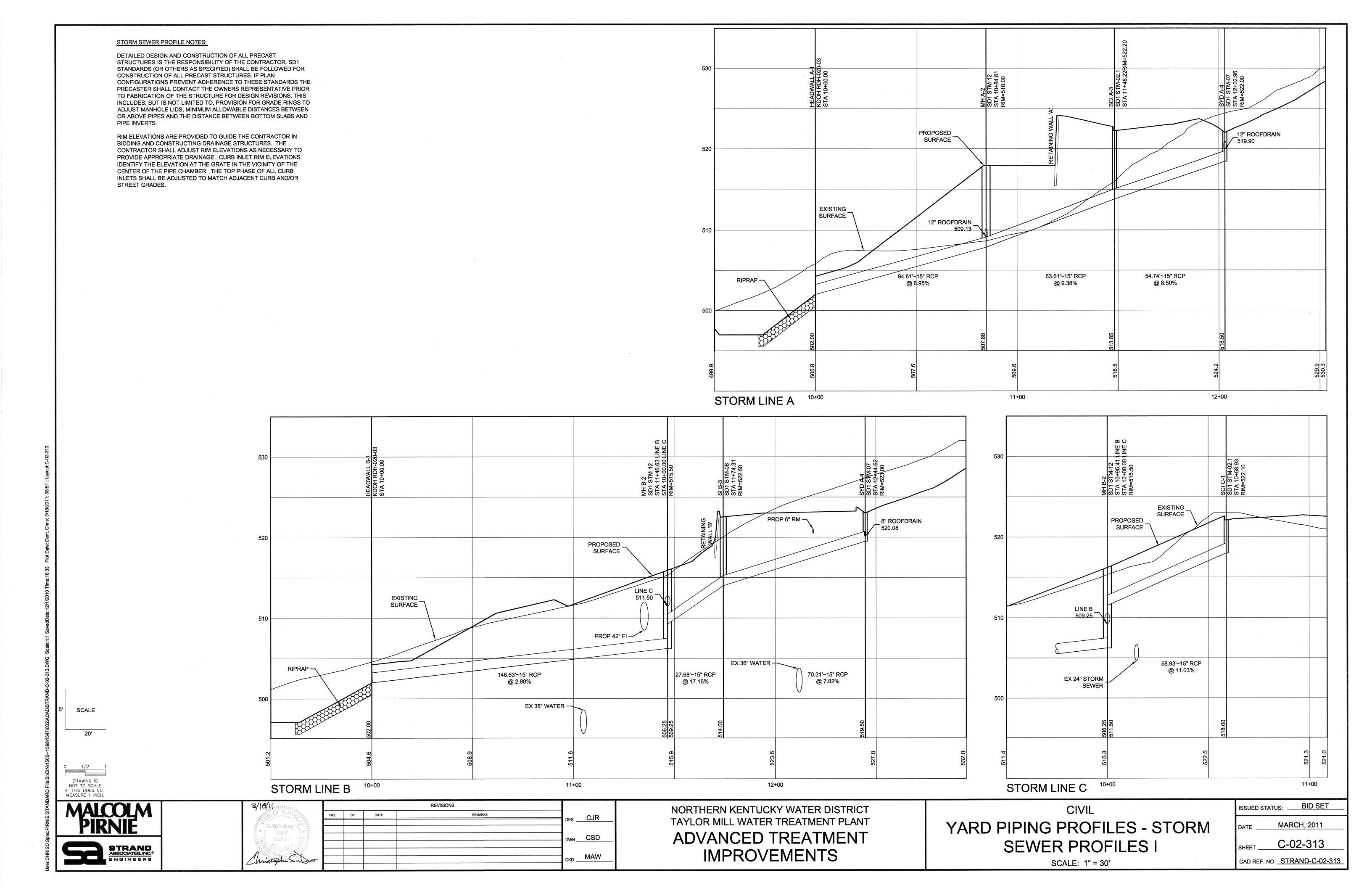
NORTHERN KENTUCKY WATER DISTRICT
TAYLOR MILL WATER TREATMENT PLANT
ADVANCED TREATMENT
IMPROVEMENTS

YARD PIPING PROFILES
SECONDARY GAC BACKWASH SUPPLY
SHEET -

SCALE: 1" = 20' HORIZONTAL - 1' = 5' VERTICAL

CAD REF. NO. ______ C-02-311





CONFIGURATIONS PREVENT ADHERENCE TO THESE STANDARDS THE PRECASTER SHALL CONTACT THE OWNERS REPRESENTATIVE PRIOR TO FABRICATION OF THE STRUCTURE FOR DESIGN REVISIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, PROVISION FOR GRADE RINGS TO ADJUST MANHOLE LIDS, MINIMUM ALLOWABLE DISTANCES BETWEEN OR ABOVE PIPES AND THE DISTANCE BETWEEN BOTTOM SLABS AND PIPE INVERTS.

RIM ELEVATIONS ARE PROVIDED TO GUIDE THE CONTRACTOR IN BIDDING AND CONSTRUCTING DRAINAGE STRUCTURES. THE CONTRACTOR SHALL ADJUST RIM ELEVATIONS AS NECESSARY TO PROVIDE APPROPRIATE DRAINAGE. CURB INLET RIM ELEVATIONS IDENTIFY THE ELEVATION AT THE GRATE IN THE VICINITY OF THE CENTER OF THE PIPE CHAMBER. THE TOP PHASE OF ALL CURB INLETS SHALL BE ADJUSTED TO MATCH ADJACENT CURB AND/OR STREET GRADES.

SCALE

20'

DRAWING IS
NOT TO SCALE
IF THIS DOES NOT
MEASURE 1 INCH.

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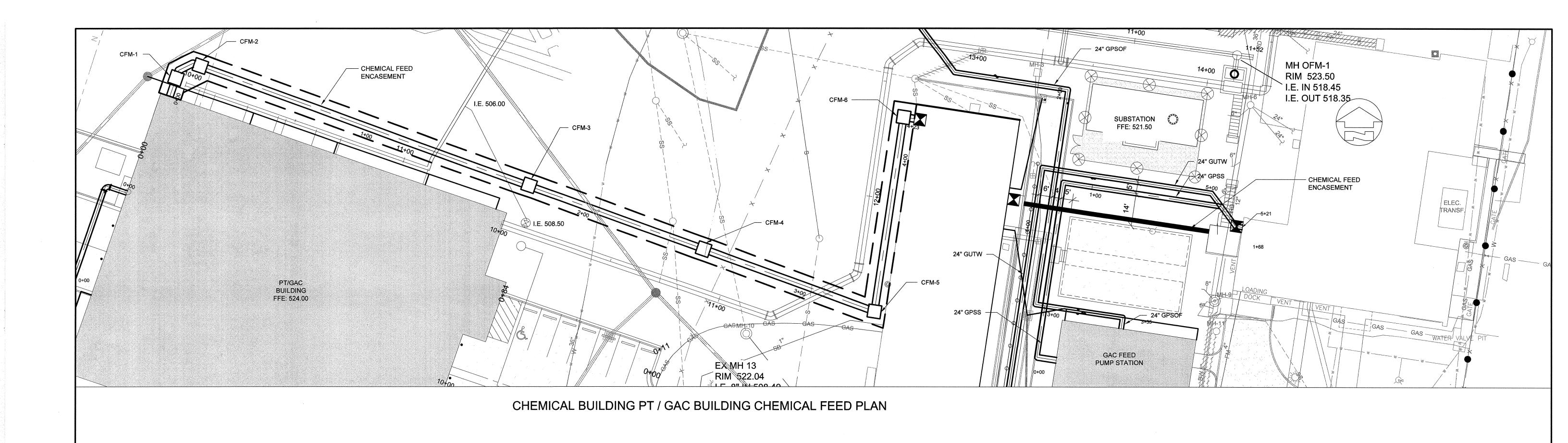
NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT **IMPROVEMENTS**

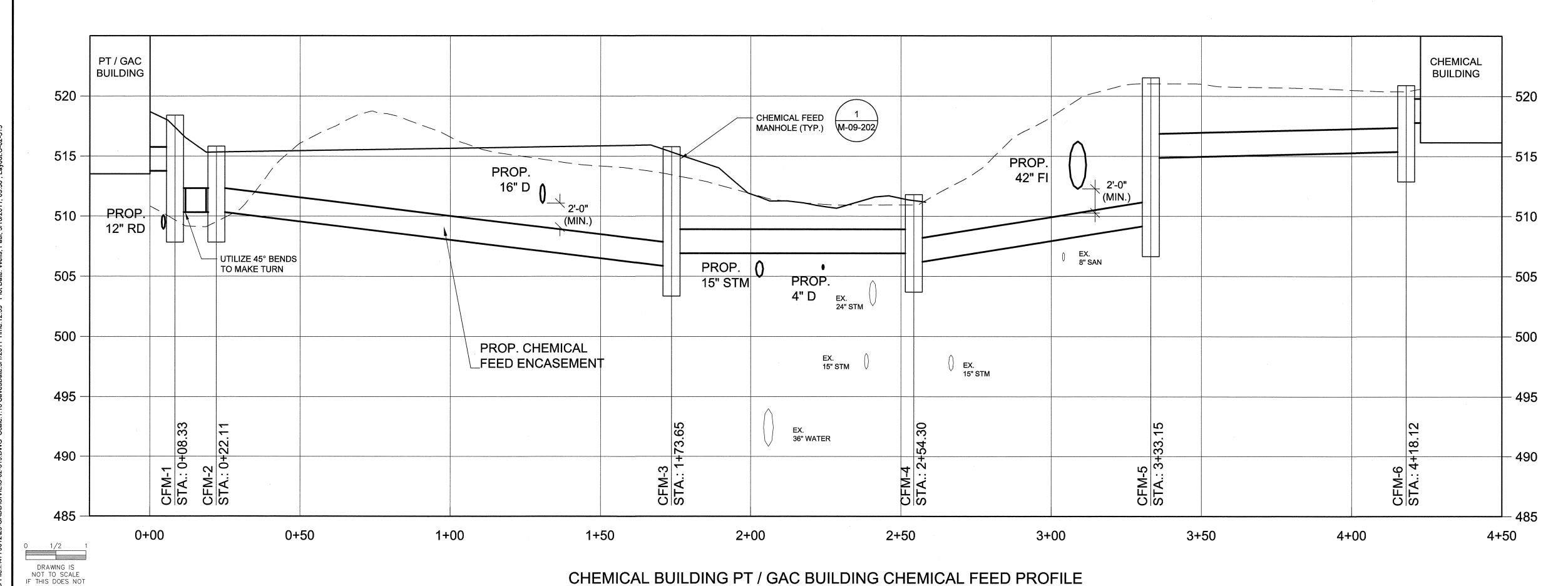
YARD PIPING PROFILES - STORM SEWER PROFILES II

ISSUED STATUS: BID SET MARCH, 2011 C-02-314 CAD REF. NO. STRAND-C-02-314

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SCALE: 1" = 30'



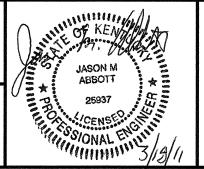


CHEMICAL FEED MANHOLE TABLE					
STRUCTURE	NORTHING	EASTING			
CFM-1	559224.70	1567284.56			
CFM-2	559229.87	1567295.12			
CFM-3	559178.35	1567437.64			
CFM-4	559150.55	1567513.34			
CFM-5	559123.61	1567587.44			
CFM-6	559207.66	1567599.96			

○ GENERAL NOTES:

- 1. INSTALL ALL CHEMICAL FEED CARRIER PIPES BETWEEN MANHOLES TO CONTINUOUSLY DRAIN TO THE DOWN SLOPE MANHOLE.
- ALL HORIZONTAL AND VERTICAL CHANGES SHALL BE MADE GENTLY TO ALLOW THE CHEMICAL FEED TUBING TO BE INSTALLED.

MALCOLM PIRNIE



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NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT IMPROVEMENTS

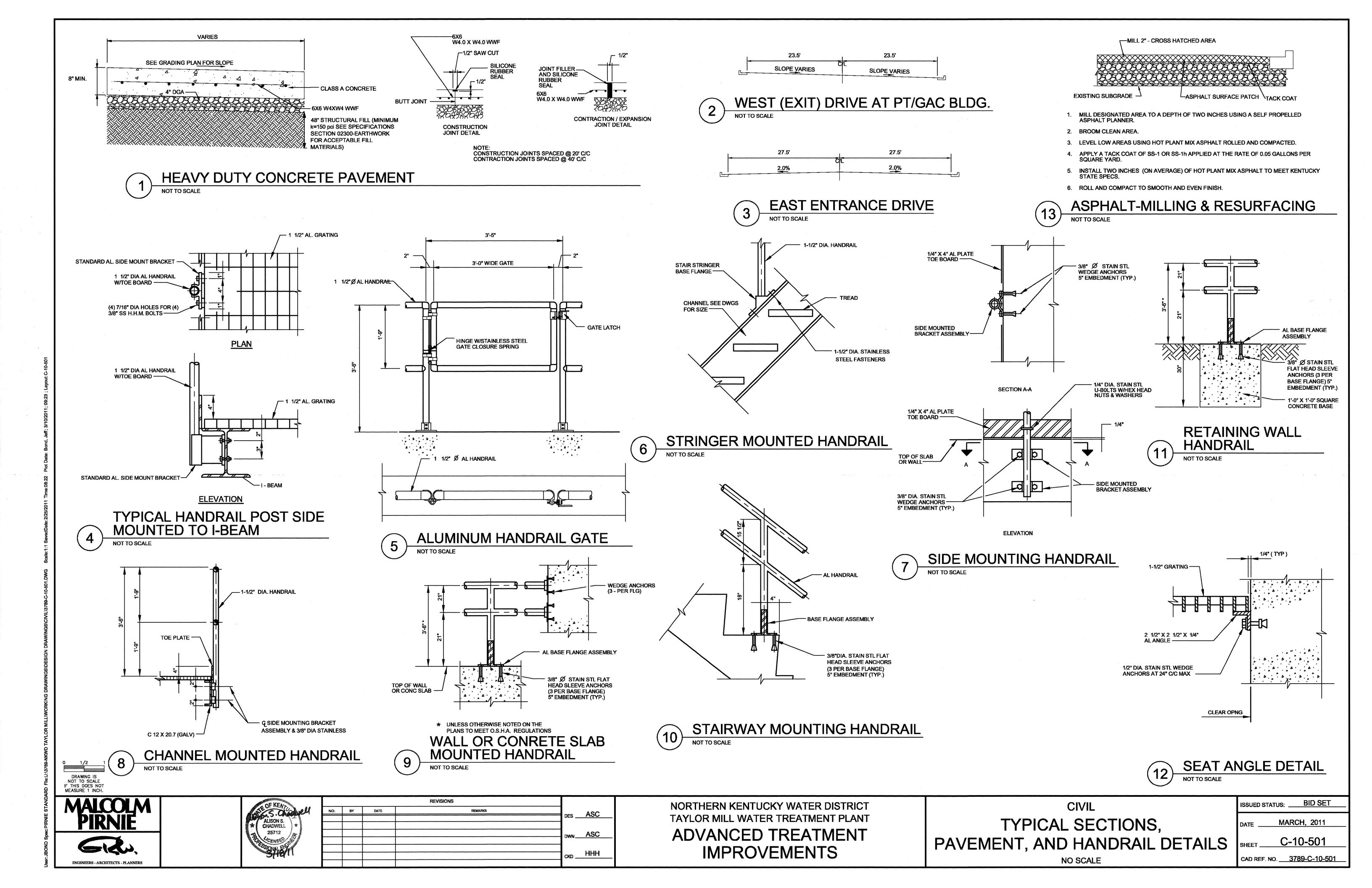
YARD PIPING PROFILES
CHEMICAL FEED

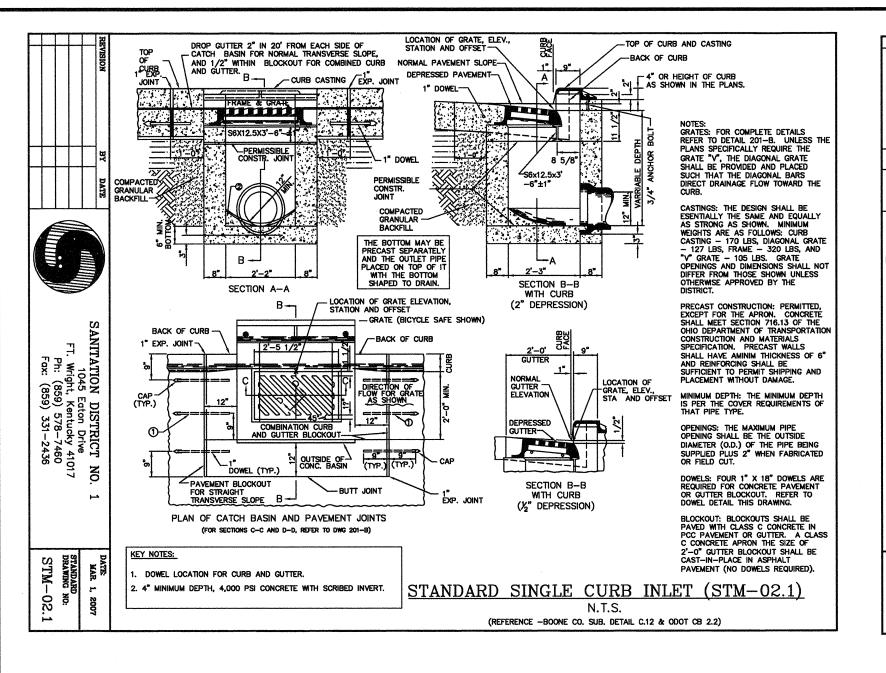
SCALE: 1" = 20' HORIZONTAL - 1' = 5' VERTICAL

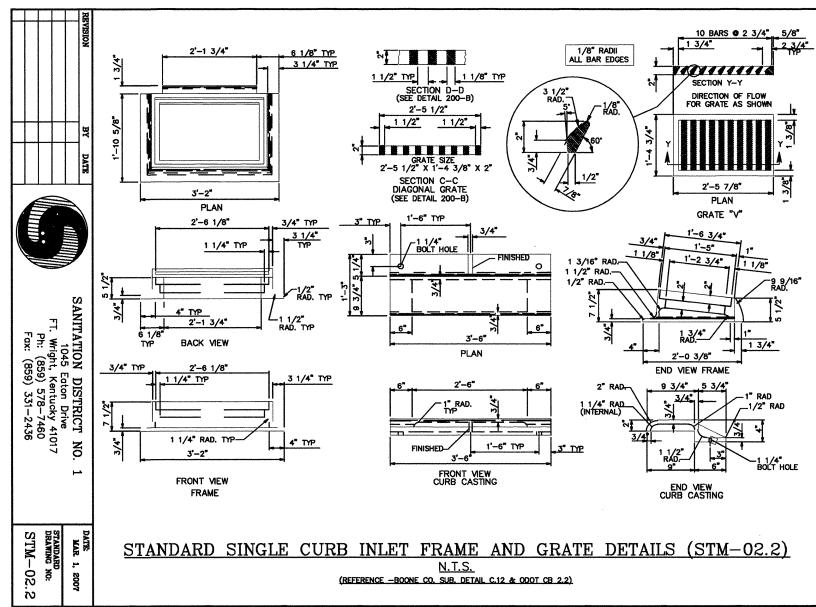
DATE MARCH, 2011

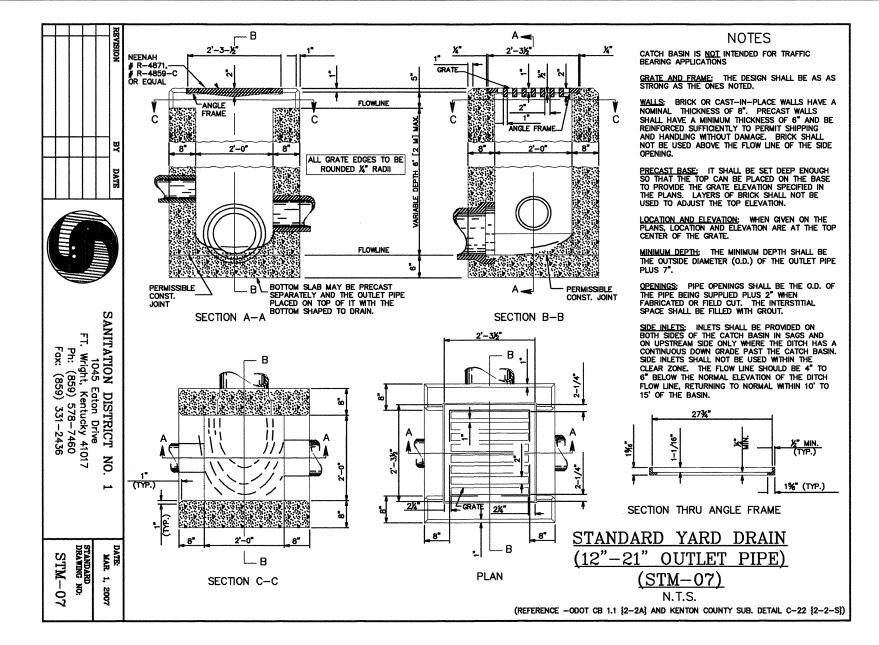
SHEET C-02-315

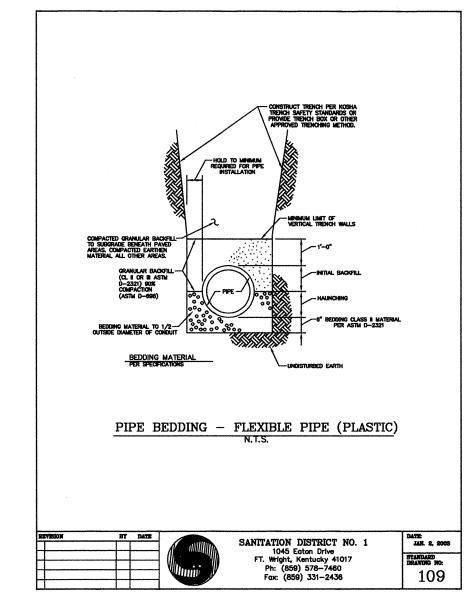
CAD REF. NO. C-02-315

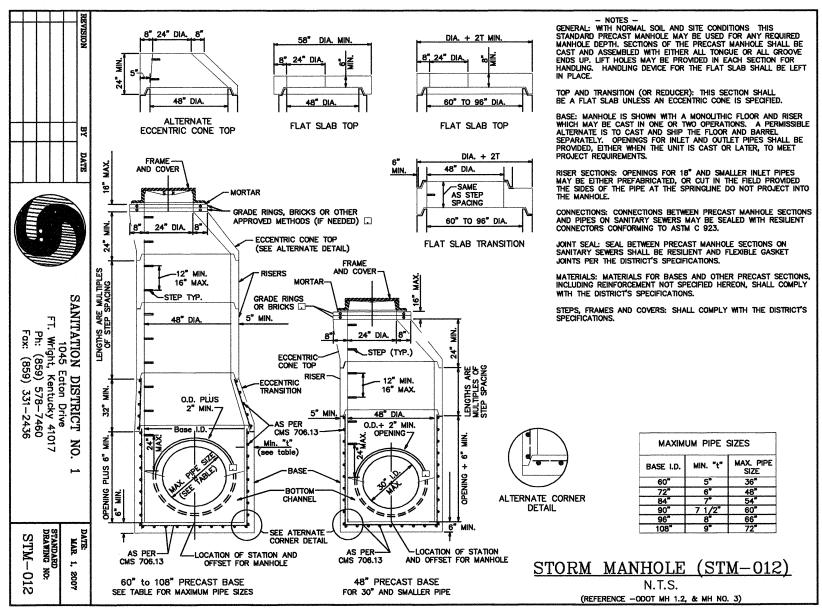


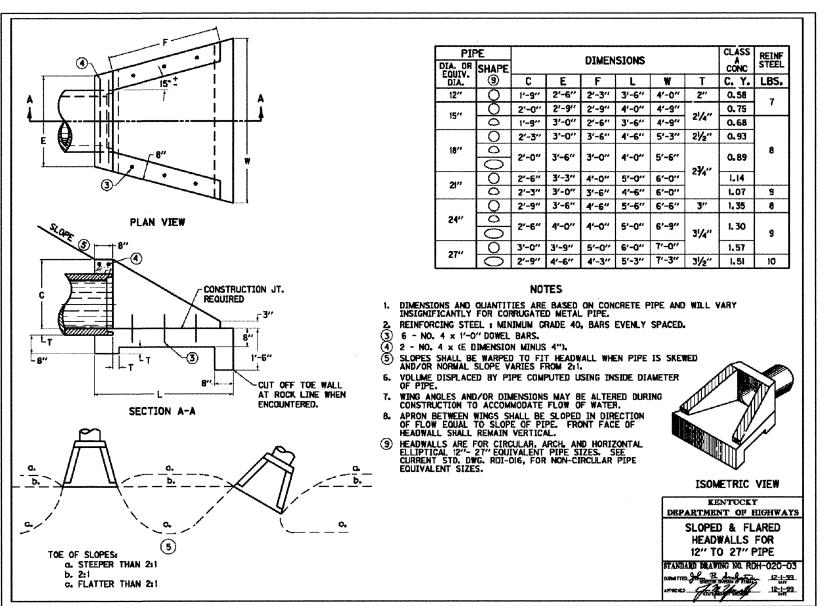


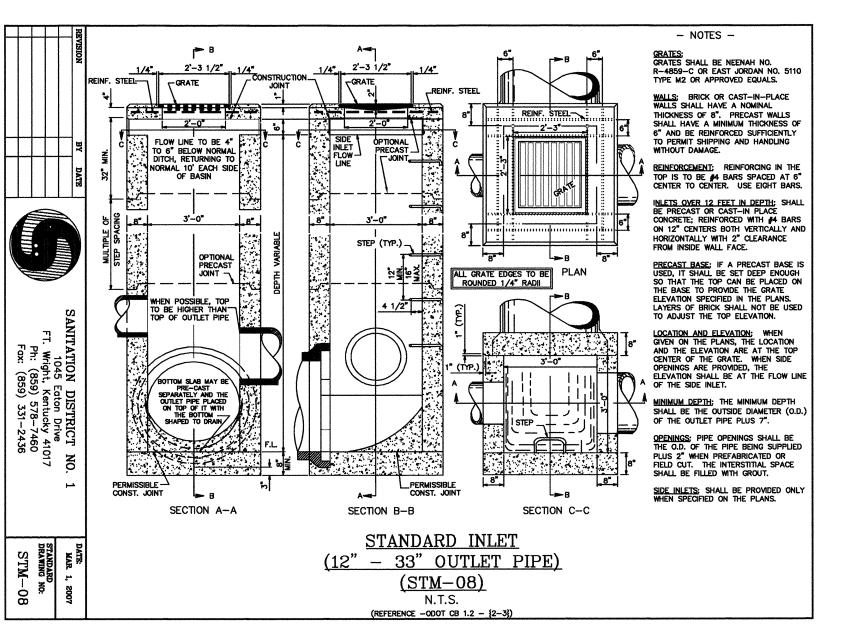


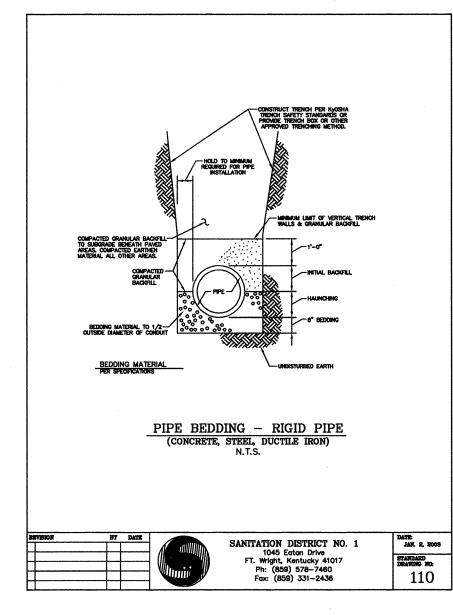


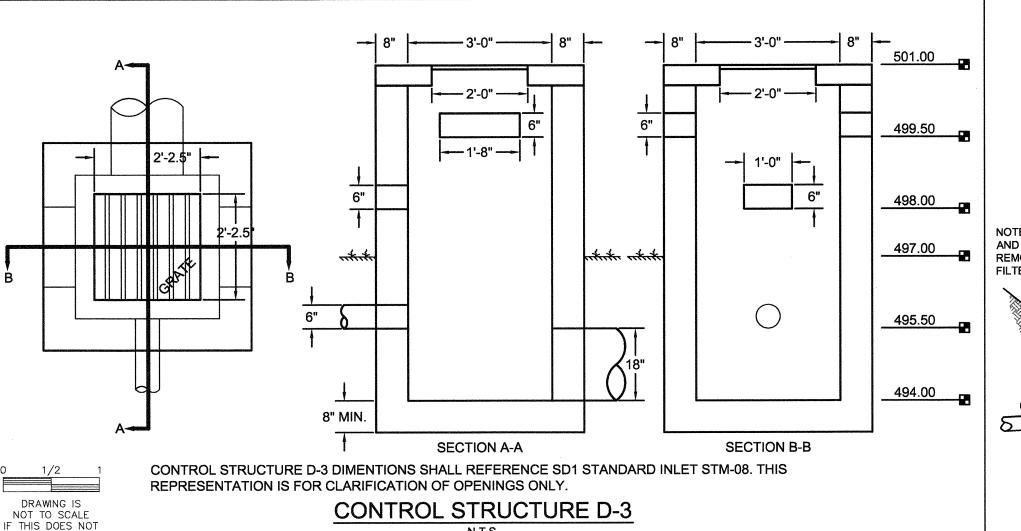


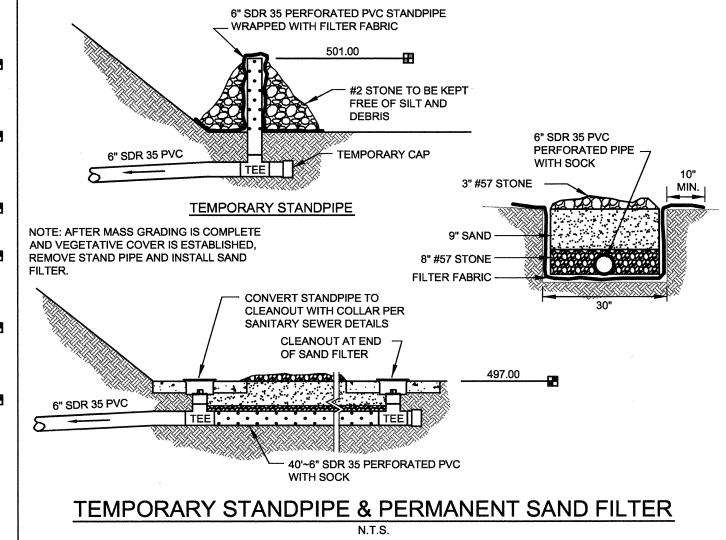














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NORTHERN KENTUCKY WATER DISTRICT
TAYLOR MILL WATER TREATMENT PLANT
ADVANCED TREATMENT
IMPROVEMENTS

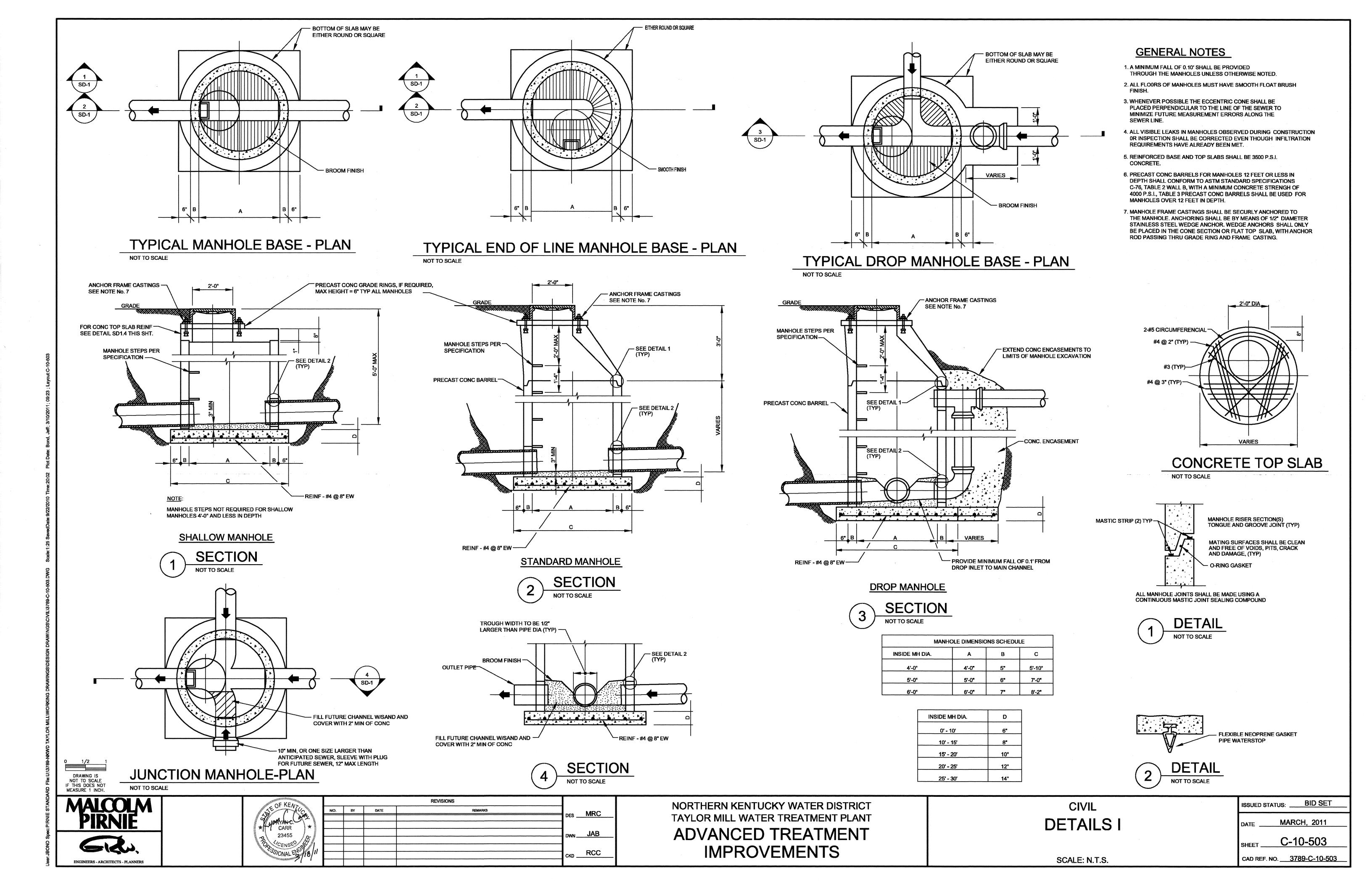
STORM SEWER DETAILS

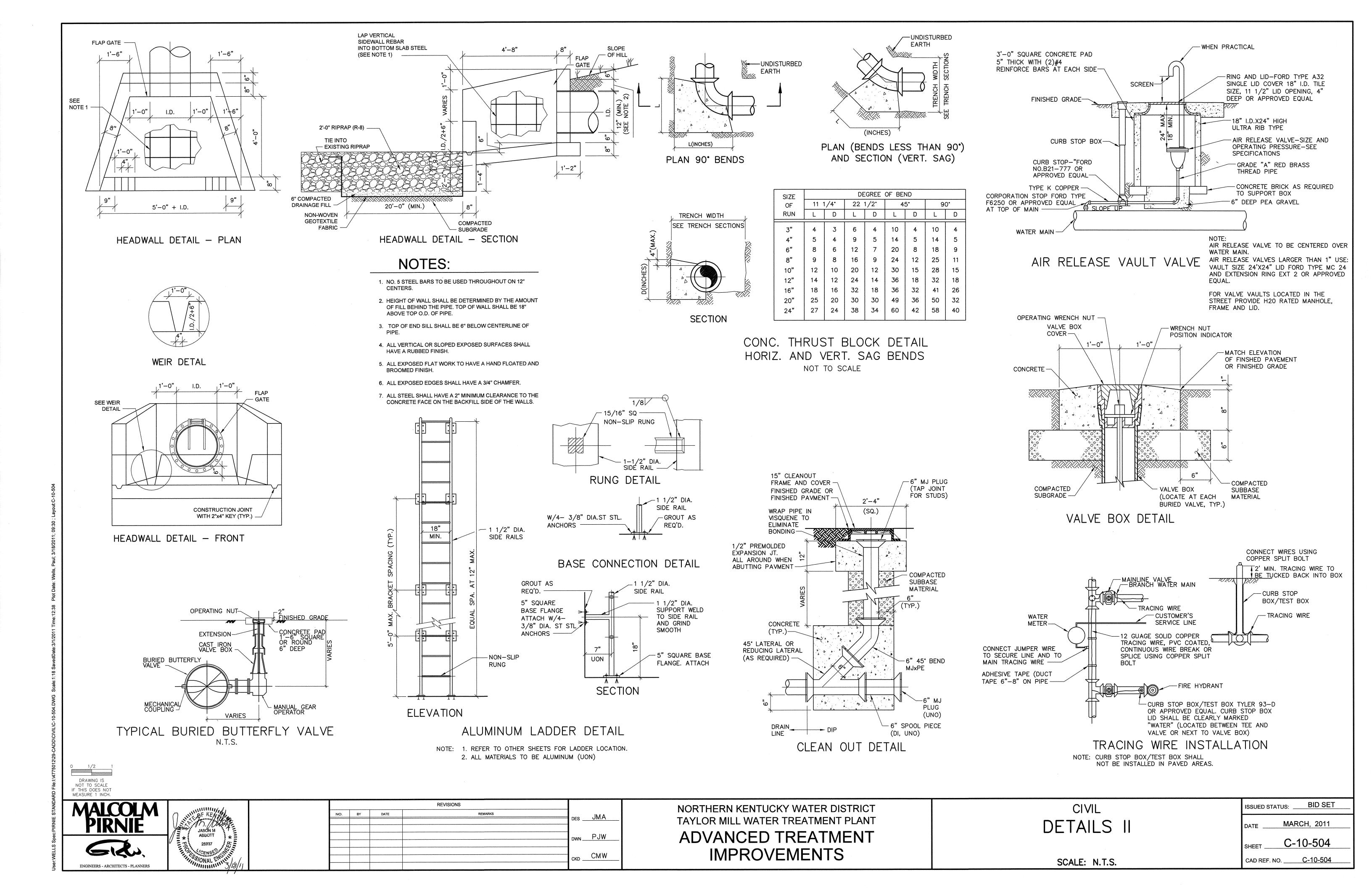
DATE _______ MARCH, 2011

SHEET _____ C-10-502

CAD REF. NO. _STRAND-C-10-502

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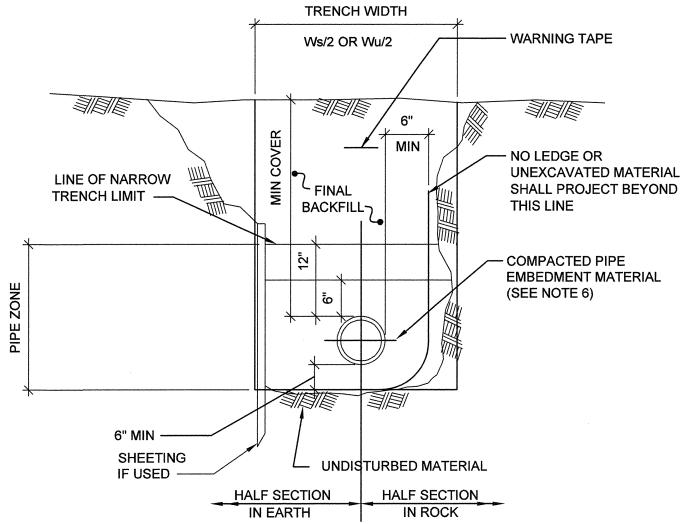




NOTES

- 1. TRENCHES MAY BE EXCAVATED WIDER THAN TRENCH WIDTH Ws ABOVE THE "LINE OF NARROW TRENCH LIMIT".
- 2. BELOW THE "LINE OF NARROW TRENCH LIMIT" THE TRENCH SHALL NOT BE EXCAVATED BEYOND THE TRENCH WIDTH Ws.
- 3. SHEETING IF USED IN ALL CASES SHALL BE LEFT IN PLACE BELOW A LINE 12" ABOVE THE TOP OF THE PIPE. UNLESS OTHERWISE INDICATED OR DIRECTED.
- 4. "COVER" AT ANY POINT SHALL BE DEFINED AS THE VERTICAL DISTANCE FROM THE UPPER MOST POINT OF THE PIPE TO A LINE WHICH CONNECTS THE SURFACE OF UNDISTURBED GROUND AT EITHER SIDE OF THE TRENCH AND IS AT RIGHT ANGLES TO THE DIRECTION OF THE PIPE.
- 5. WHERE THE FUTURE EXTENSION OF A PLUGGED PIPE OR A PLUGGED BRANCH WILL ENTAIL ROCK EXCAVATION THE TRENCH EXCAVATION IN ROCK SHALL BE EXTENDED FOR A DISTANCE OF 6'-0" BEYOND THE PLUG.
- 6. ACCEPTABLE PIPE EMBEDMENT MATERIAL IS DEFINED IN SECTION 02505. SAND TO BE USED FOR PLASTIC AND STEEL PIPES.
- 7. FOR SHEETED TRENCH Ws = 4/3 D+32" OR 50" WHICHEVER IS GREATER. FOR UNSHEETED TRENCH Wu = 4/3 D+18" OR 36" WHICHEVER IS GREATER.

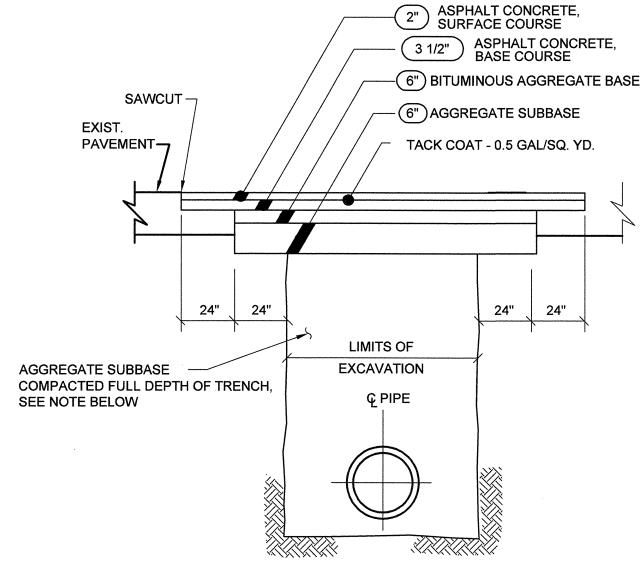
TRENCH SECTION FOR PVC PIPE 18" DIAMETER & SMALLER



NOTES:

- TRENCHES MAY BE EXCAVATED WIDER THAN TRENCH WIDTH Ws ABOVE THE "LINE OF NARROW TRENCH LIMIT".
- 2. BELOW THE "LINE OF NARROW TRENCH LIMIT" THE TRENCH SHALL NOT BE EXCAVATED BEYOND THE TRENCH WIDTH Ws.
- 3. SHEETING IF USED IN ALL CASES SHALL BE LEFT IN PLACE BELOW A LINE 12" ABOVE THE TOP OF THE PIPE. UNLESS OTHERWISE INDICATED OR DIRECTED.
- 4. "COVER" AT ANY POINT SHALL BE DEFINED AS THE VERTICAL DISTANCE FROM THE UPPER MOST POINT OF THE PIPE TO A LINE WHICH CONNECTS THE SURFACE OF UNDISTURBED GROUND AT EITHER SIDE OF THE TRENCH AND IS AT RIGHT ANGLES TO THE DIRECTION OF THE PIPE.
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- 7. FOR SHEETED TRENCH Ws = 4/3 D+32" OR 50" WHICHEVER IS GREATER. FOR UNSHEETED TRENCH Wu = 4/3 D+18" OR 36" WHICHEVER IS GREATER.

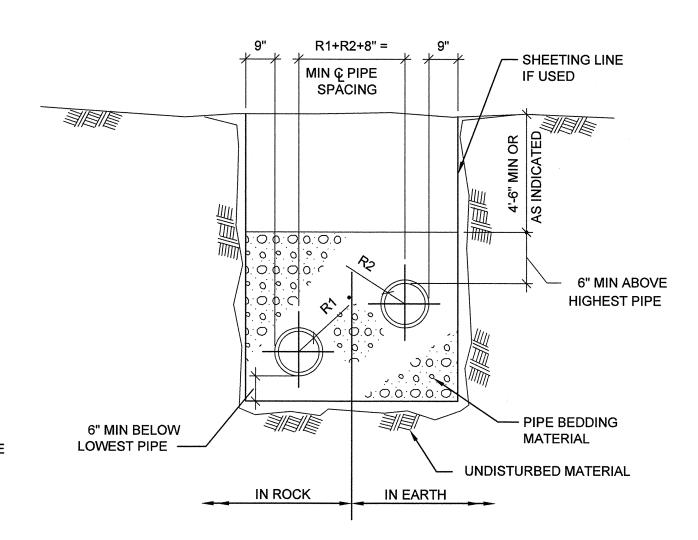
TRENCH SECTION FOR DI PIPE



NOTES:

1. THE AGGREGATE SUBBASE SHALL BE CONSTRUCTED OF AN ACCEPTABLE KENTUCKY DEPARTMENT OF TRANSPORTATION ITEM WITH MAXIMUM PERMISSIBLE SIZE OF 1 INCH. THE MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT PER ASTM D698 AT OR NEAR OPTIMUM MOISTURE CONTENT.

BITUMINOUS PAVEMENT REPLACEMENT DETAIL



MULTIPLE PIPE TRENCH SECTION

1/2 1

DRAWING IS

NOT TO SCALE

THIS DOES NOT
MEASURE 1 INCH.





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NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT

IMPROVEMENTS

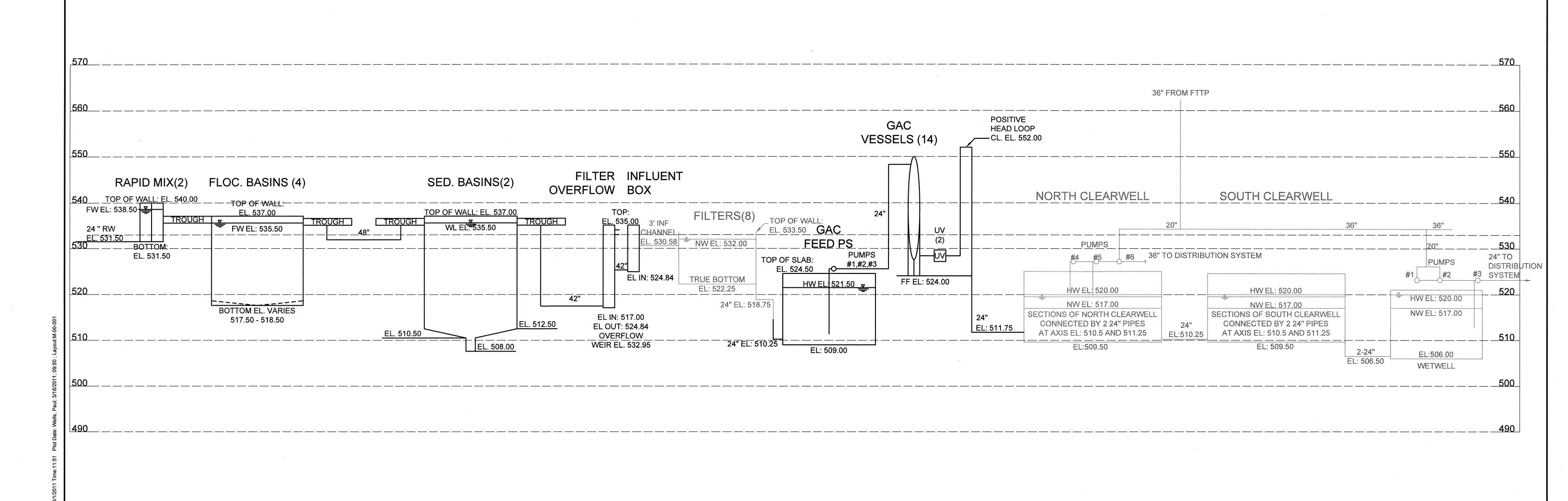
CIVIL DETAILS III

DATE MARCH, 2011

C-10-505

CAD REF. NO. <u>C-10-505</u>

SCALE: N.T.S.

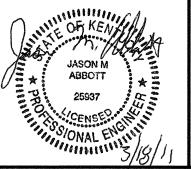


GENERAL NOTES:

- HW EL. = HIGH WATER ELEVATION
- NW EL. = NORMAL WATER ELEVATION
- FW EL. = FREE WATER ELEVATION

HORIZONTAL: NOT TO SCALE VERTICAL SCALE: 1/2" = 10'-0"

MALCOLM PIRNIE



			REVISIONS		
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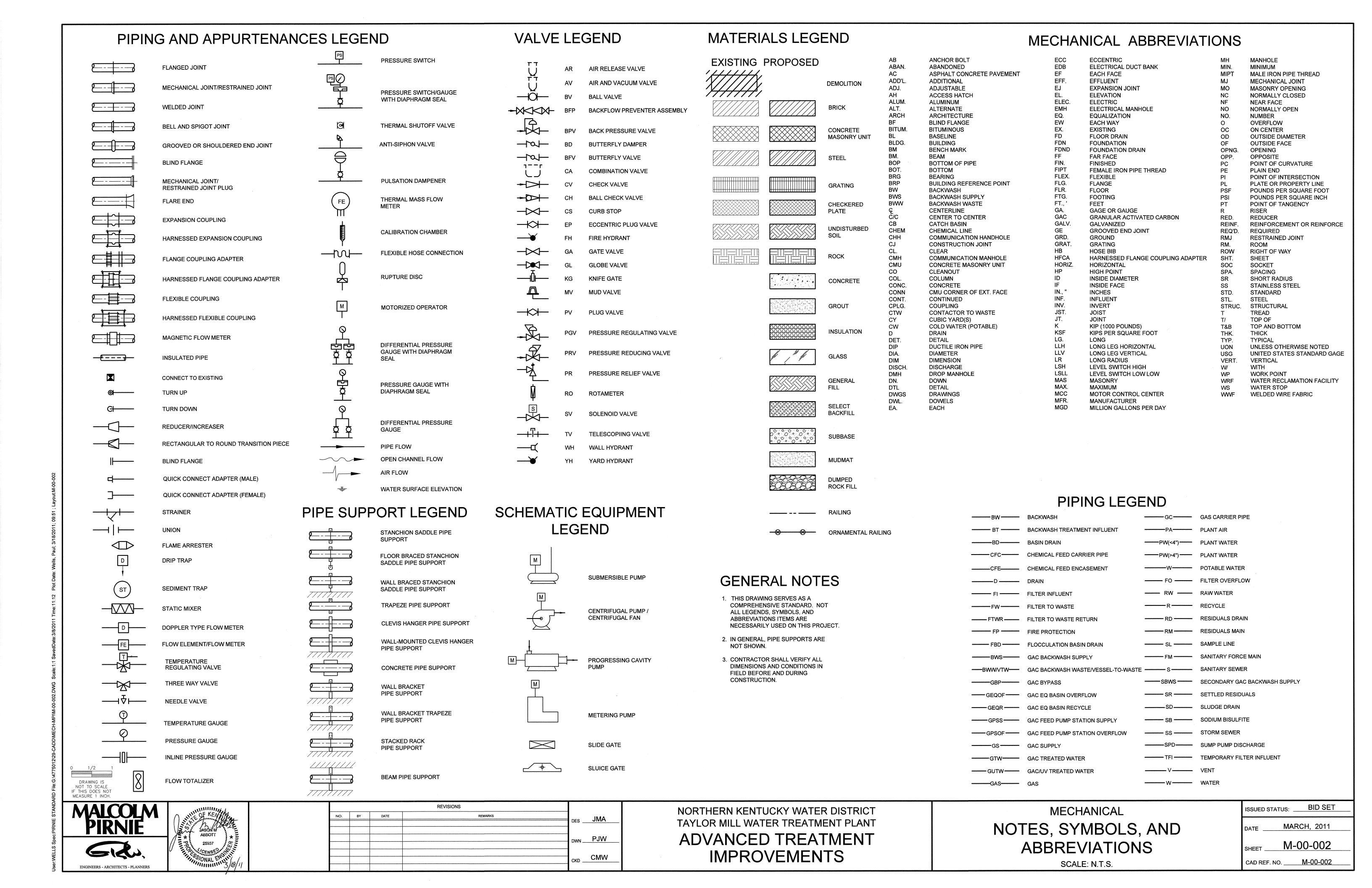
NORTHERN KENTUCKY WATER DISTRICT
TAYLOR MILL WATER TREATMENT PLANT
ADVANCED TREATMENT
IMPROVEMENTS

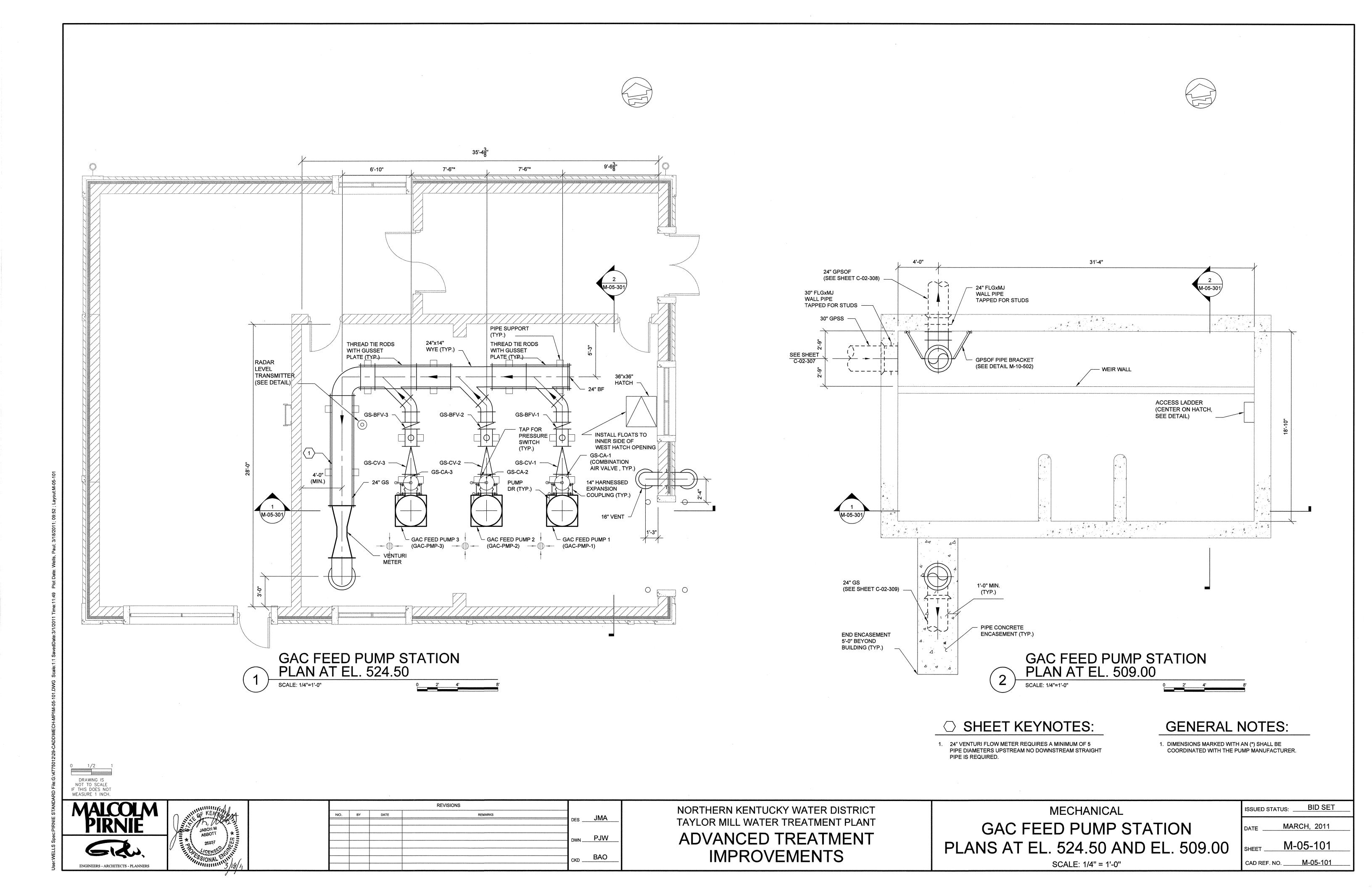
MECHANICAL
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PROFILE
SCALE: N.T.S.

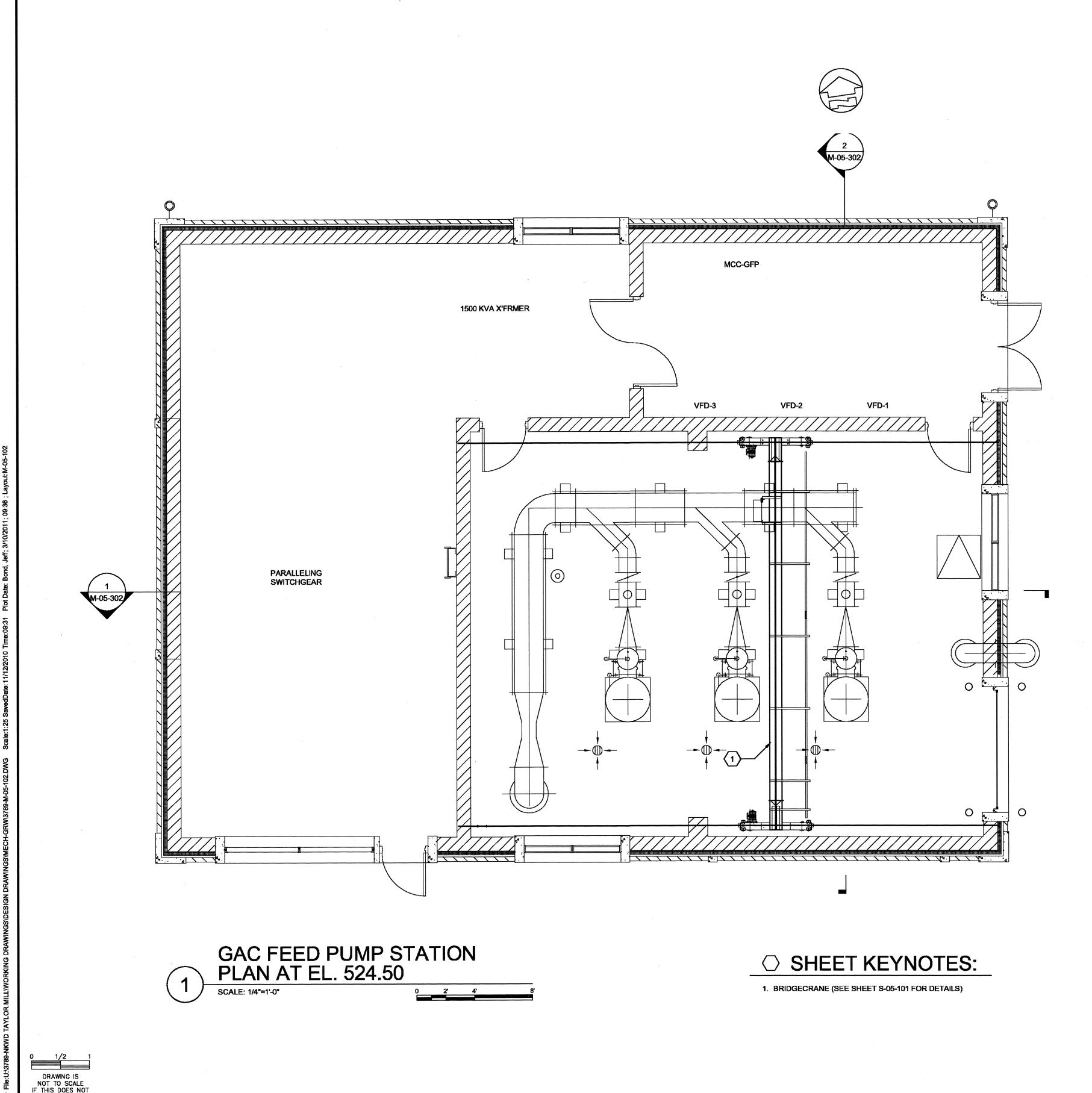
DATE MARCH, 2011

SHEET M-00-001

CAD REF. NO. <u>M-00-001</u>







MECHANICAL

GAC FEED PUMP STATION BRIDGECRANE - PLAN

M-05-102 CAD REF. NO. 3789-M-05-102

ISSUED STATUS: BID SET

MARCH, 2011

NORTHERN KENTUCKY WATER DISTRICT

TAYLOR MILL WATER TREATMENT PLANT

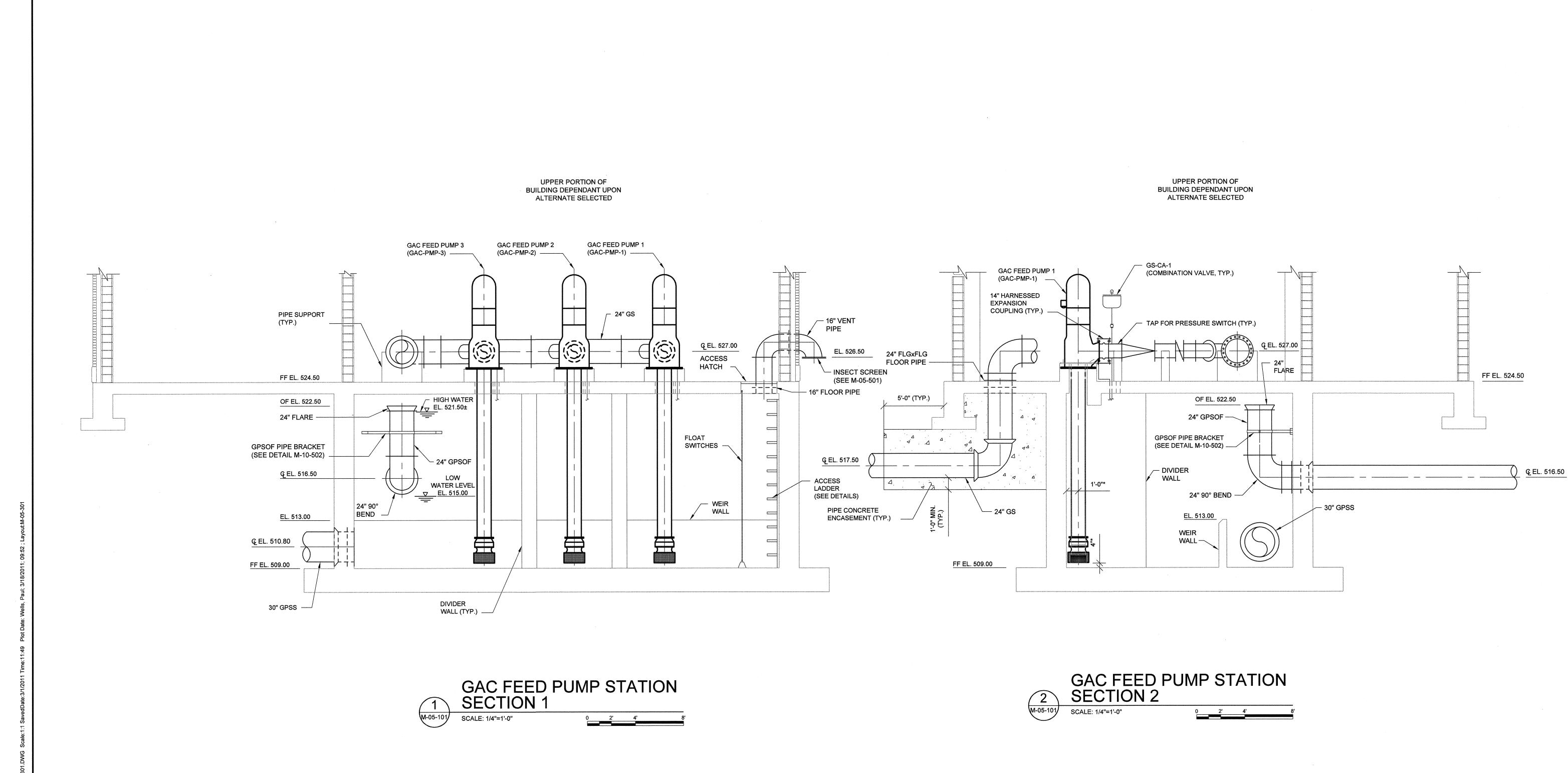
ADVANCED TREATMENT

IMPROVEMENTS

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

MALCOLM PIRNIE

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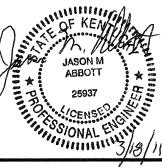


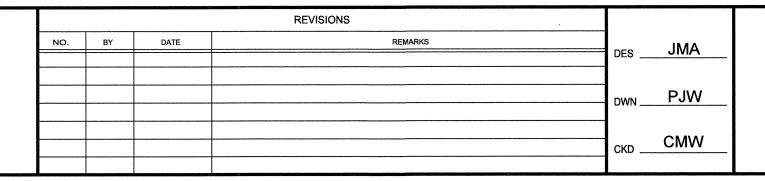
GENERAL NOTES:

1. DIMENSION MARKED WITH AN (*) SHALL BE COORDINATED WITH THE PUMP MANUFACTURER.

DRAWING IS
NOT TO SCALE
IF THIS DOES NOT
MEASURE 1 INCH.







NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT

IMPROVEMENTS

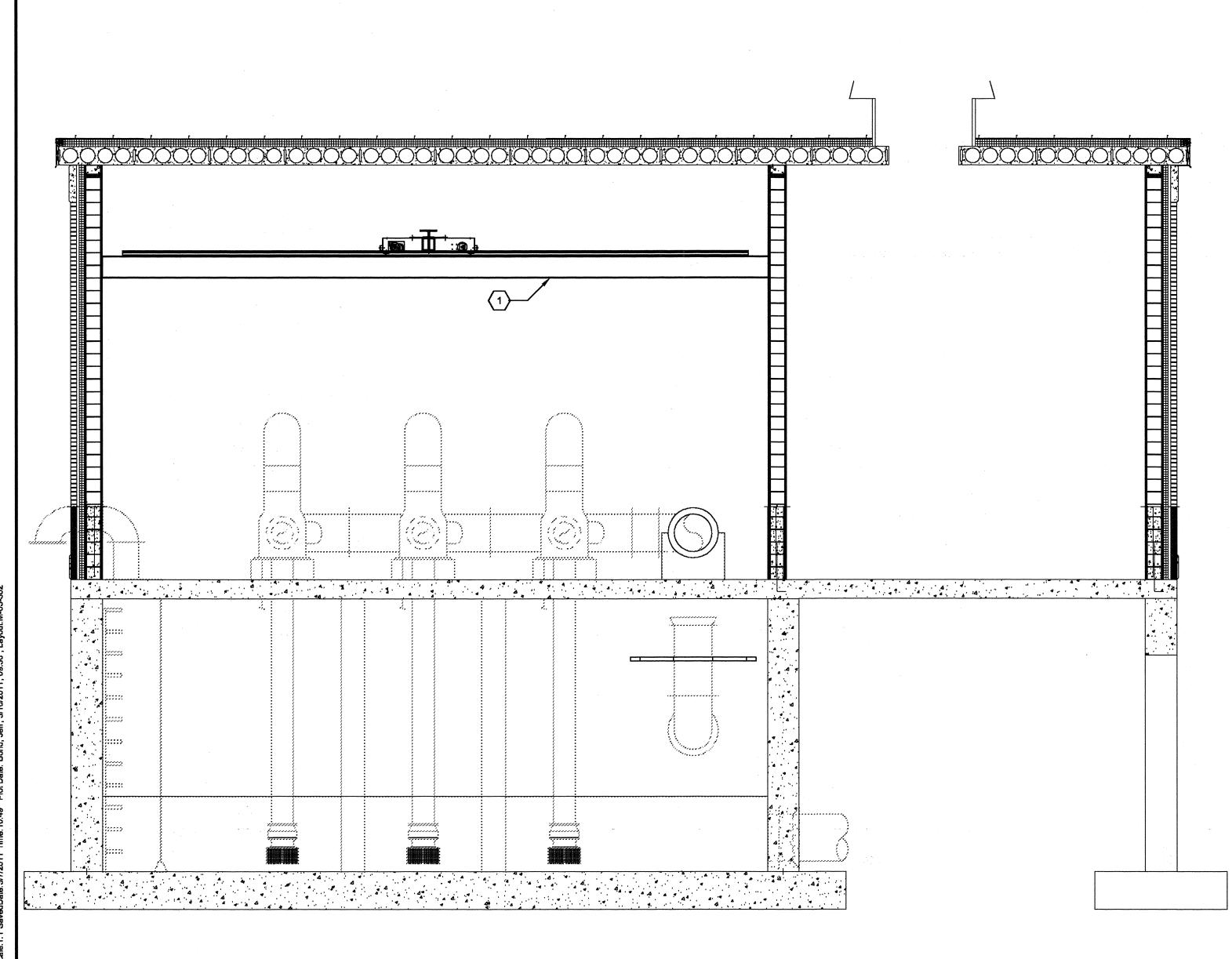
MECHANICAL
GAC FEED PUMP STATION
SECTIONS

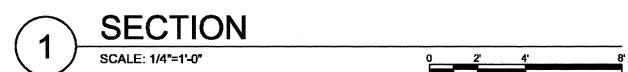
SCALE: 1/4" = 1'-0"

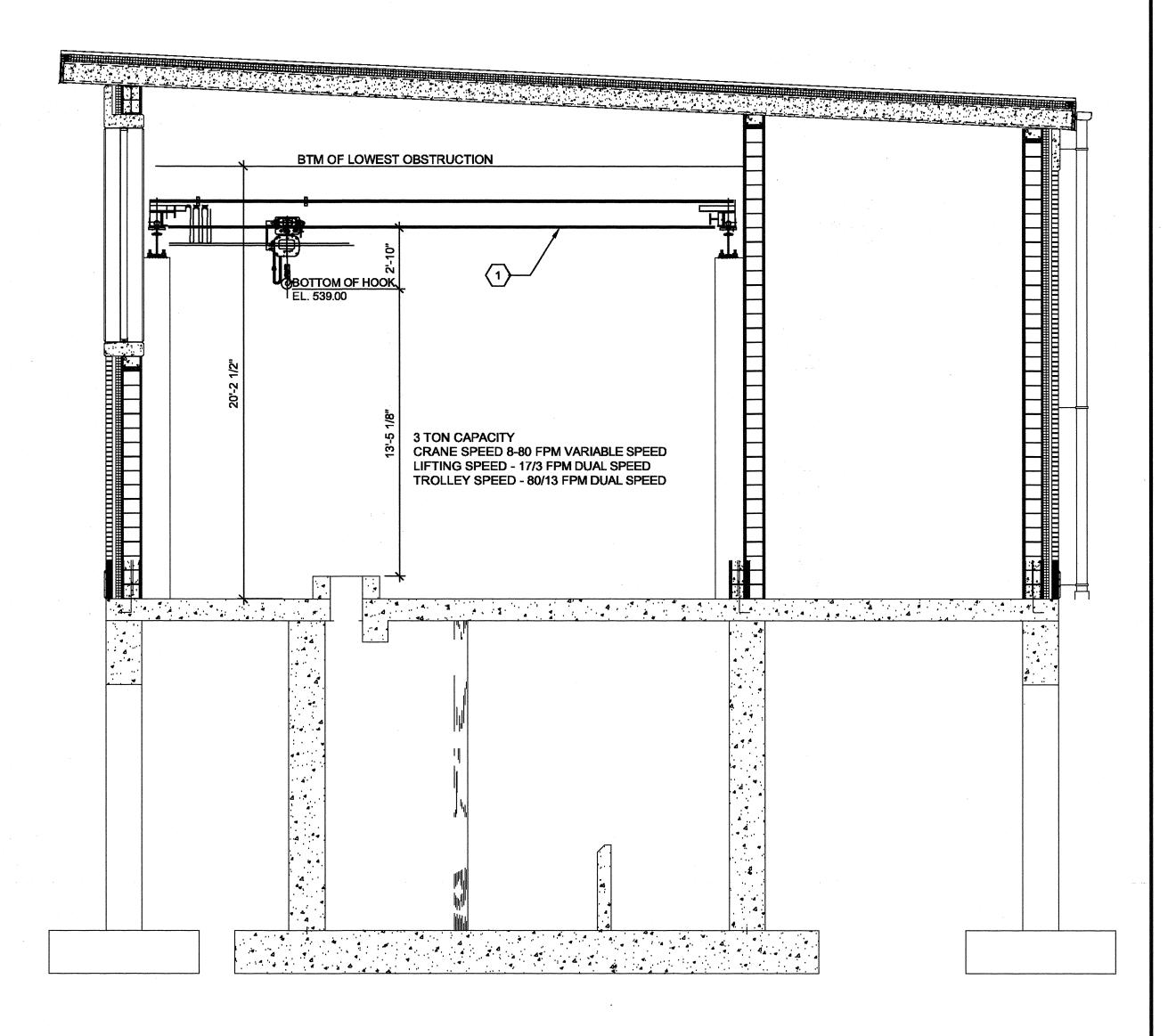
DATE MARCH, 2011

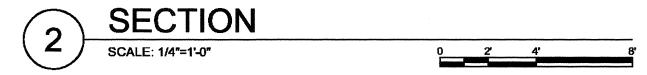
SHEET M-05-301

CAD REF. NO. M-05-301









GENERAL NOTES:

○ SHEET KEYNOTES:

1. IF THE BRIDGE CRANE ALTERNATE IS SELECTED THE PUMP MANUFACTURER SHALL CONFIRM THE MAXIMUM HOOK HEIGHT ELEVATION IS ADEQUATE FOR INSTALLATION AND REMOVAL OF PUMPS.

1. BRIDGECRANE (SEE SHEET S-05-101 FOR DETAILS)

DRAWING IS
NOT TO SCALE
IF THIS DOES NOT
MEASURE 1 INCH.

MALCOLM PIRNIE



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NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT **IMPROVEMENTS**

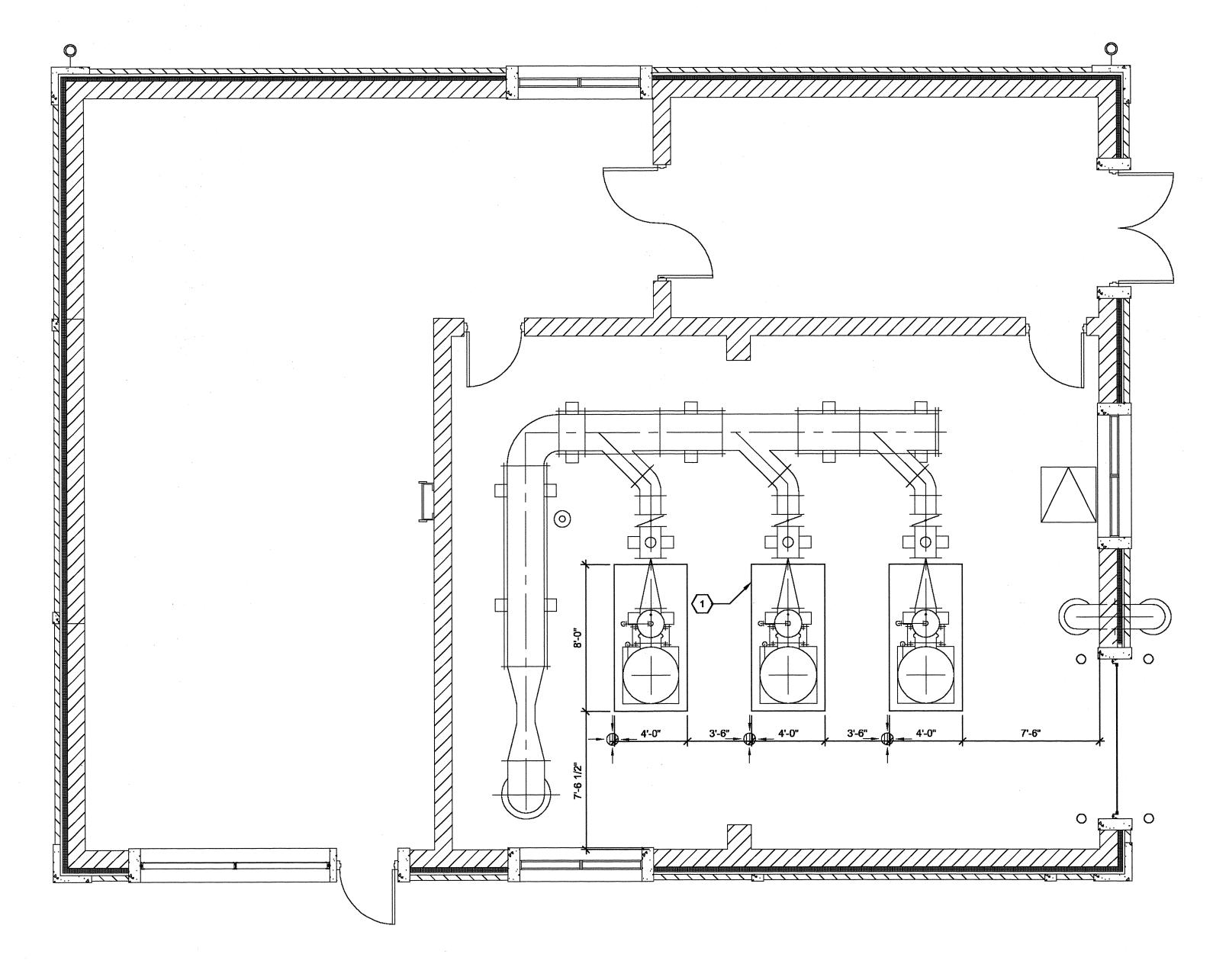
MECHANICAL GAC FEED PUMP STATION **BRIDGECRANE - SECTIONS**

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

ISSUED STATUS: BID SET DATE MARCH, 2011 M-05-302

CAD REF. NO. <u>3789-M-05-302</u>





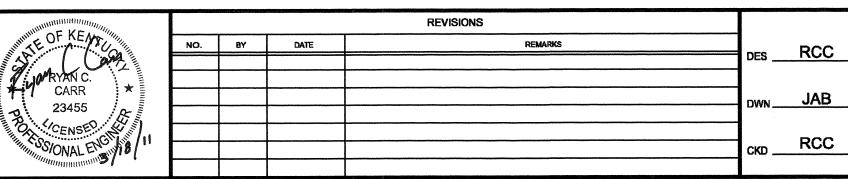
GAC FEED PUMP STATION PLAN AT EL. 524.50

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

○ SHEET KEYNOTES:

1. 4'-0" X 8'-0" OPENINGS FOR REMOVABLE SKYLIGHT (TYP. ABOVE)

DRAWING IS
NOT TO SCALE
IF THIS DOES NOT
MEASURE 1 INCH.



NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT **IMPROVEMENTS**

MECHANICAL GAC FEED PUMP STATION ALT. BID NO. 1 - SKYLIGHT ACCESS

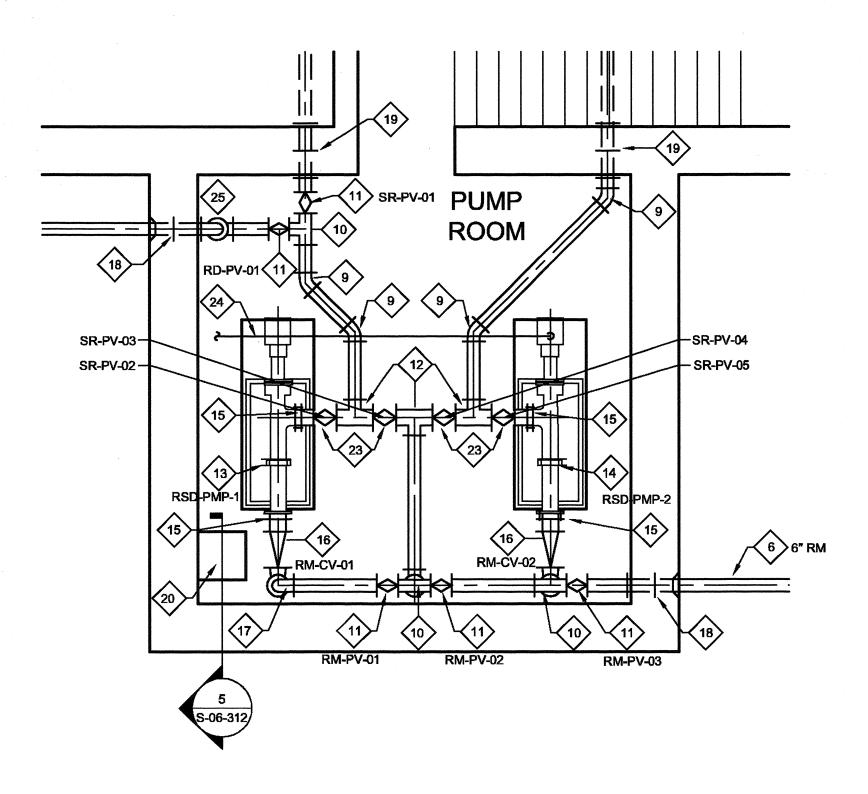
ISSUED STATUS: BID SET MARCH, 2011 SHEET M-05-102A

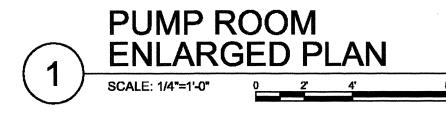
SCALE: 1/4" = 1'-0"

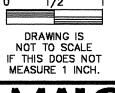
CAD REF. NO. 3789-M-05-102A

♦ PRELIMINARY TREATMENT KEYNOTES:

- 1. 4'-6" x 3'-0" SLUICE GATE W/HANDWHEEL OPERATOR
- 2. WALL THIMBLE
- 3. 6" MUD VALVE W/HANDWHEEL OPERATOR
- 4. 2' X 2' SUMP
- 5. CONCRETE EQUIPMENT PAD (SEE STRUCTURAL DETAIL, S-00-501)
- 6. 6" DI PIPE
- 7. 6" DI MJ 90° BEND
- 8. 6" DI MJ TEE
- 9. 6" DI 45° BEND
- 10. 6" DI TEE
- 11. 6" PLUG VALVE
- 12. 6" X 8" DI TEE
- 13. RESIDUALS PUMP No. 1
- 14. RESIDUALS PUMP No. 2
- 15. 8" DI FLANGE COUPLING ADAPTER
- 16. 8" CHECK VALVE
- 17. 6" DI 90° BEND
- 18. 6" DI WALL PIPE, FLG X MJ, W/WALL COLLAR, TAPPED FOR STUDS
- 19. 6" DI WALL PIPE, FLG X FLG, W/WALL COLLAR, TAPPED FOR STUDS
- 20. SUMP PUMP
- 21. 6" DI 45° BEND, PE X MJ
- 22. 6" DI MJ 22 1/2° BEND
- 23. 8" PLUG VALVE
- 24. 3/4" POTABLE WATER, SEE SHEET P-06-401 FOR CONTINUATION
- 25. 6" DI 90° BEND, FLG X FLG.











SCALE: 1/8"=1'-0"

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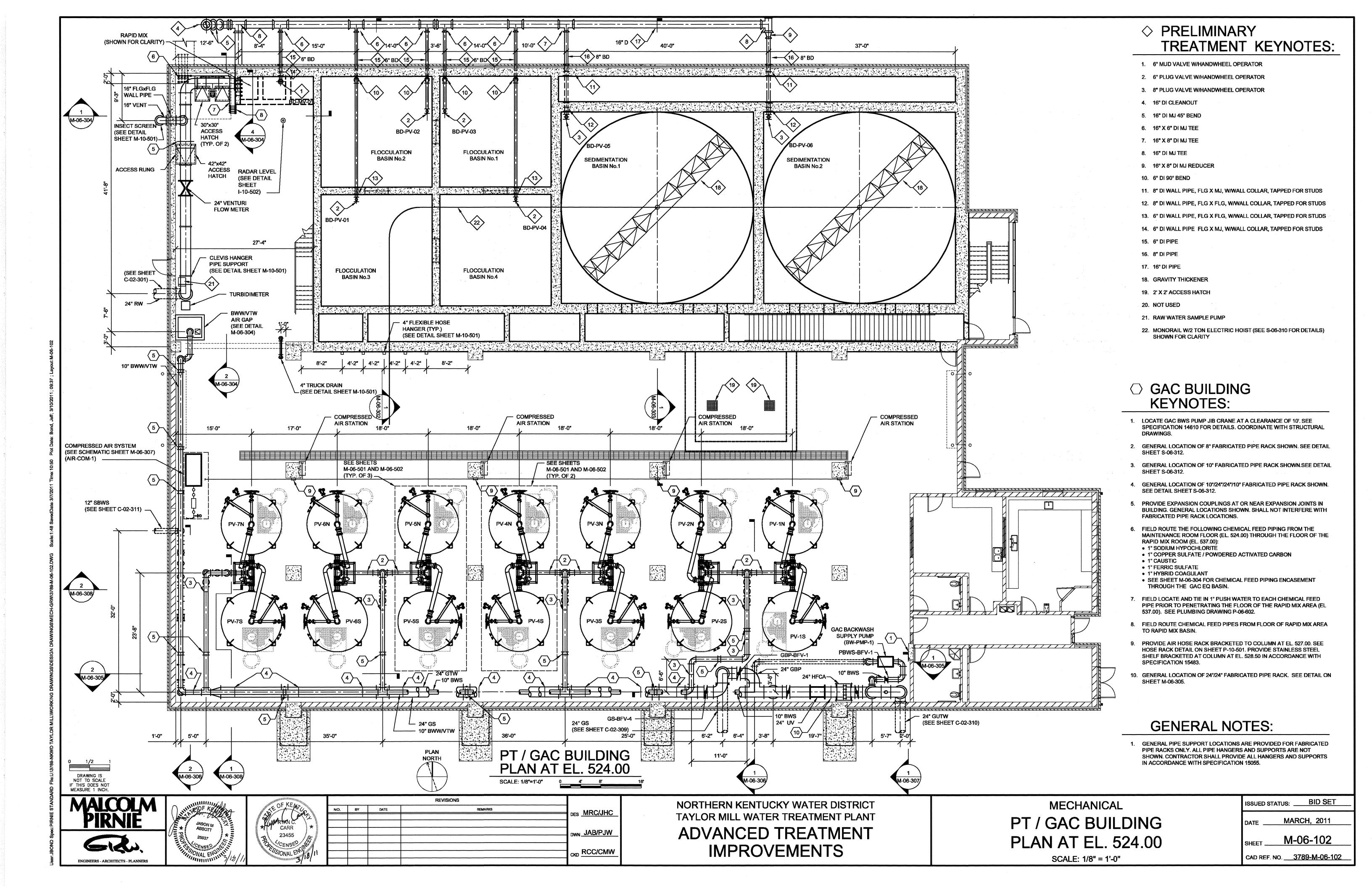
NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT

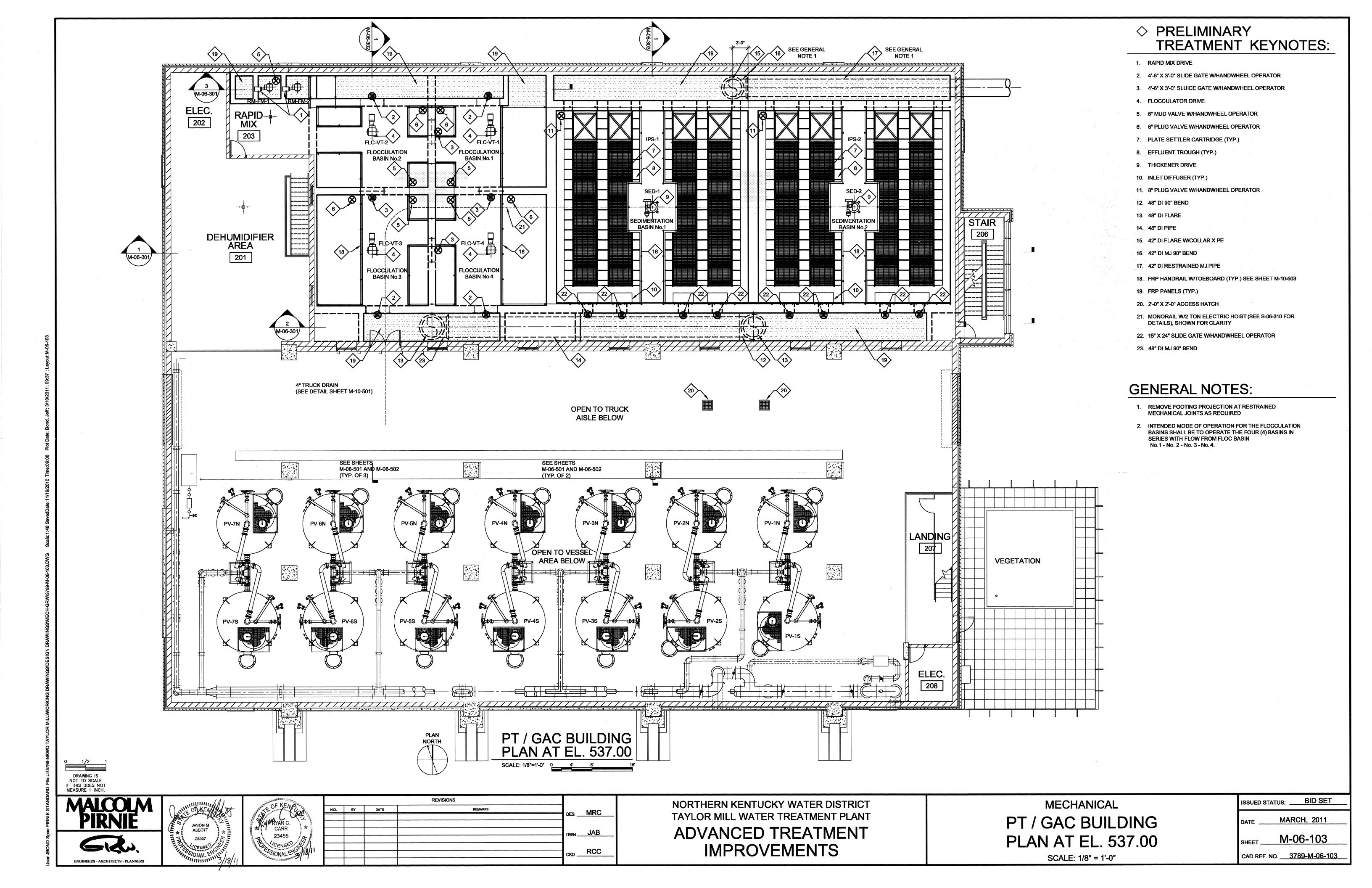
ADVANCED TREATMENT **IMPROVEMENTS**

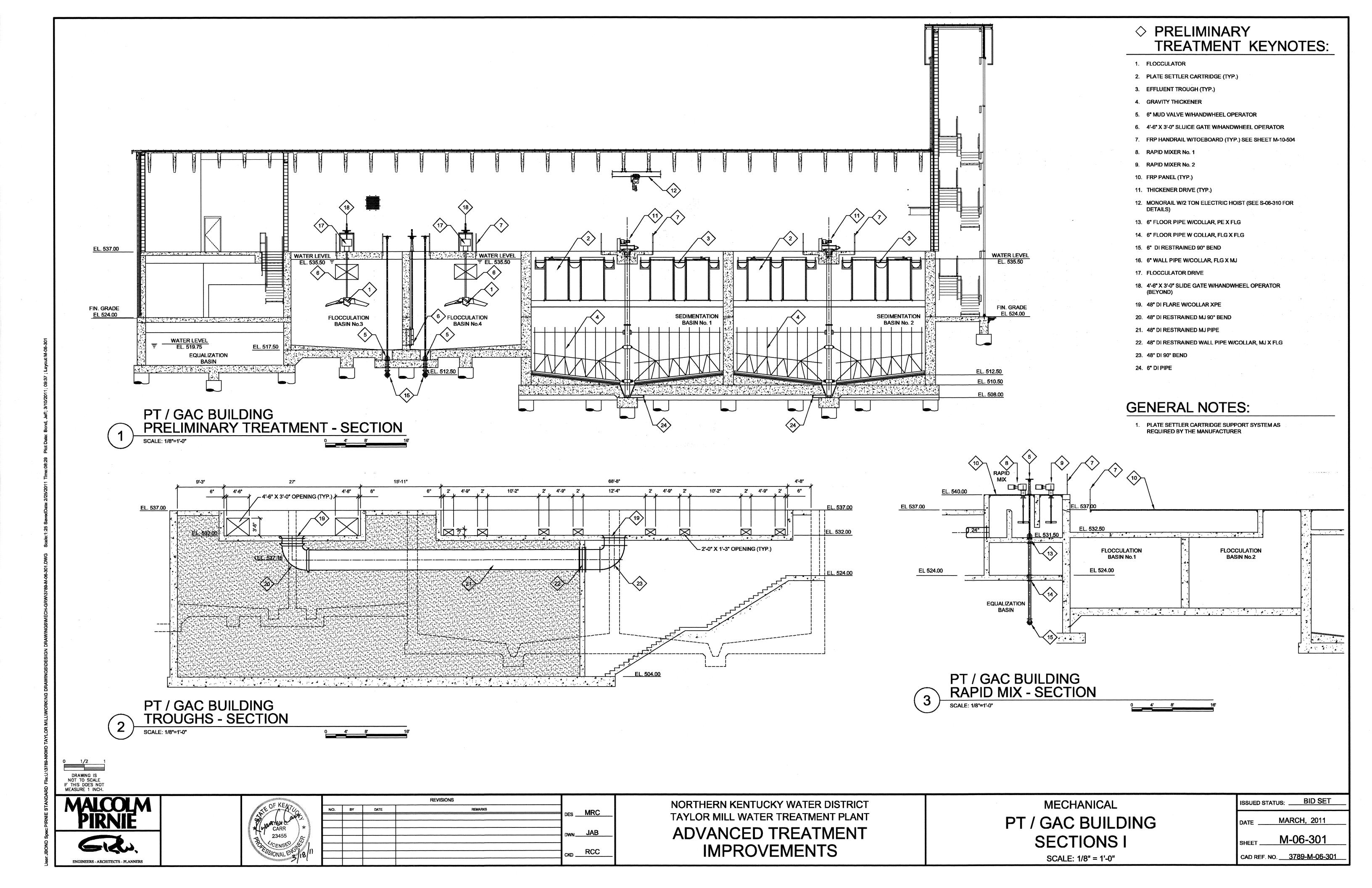
MECHANICAL PT / GAC BUILDING PLAN AT EL. 504.00

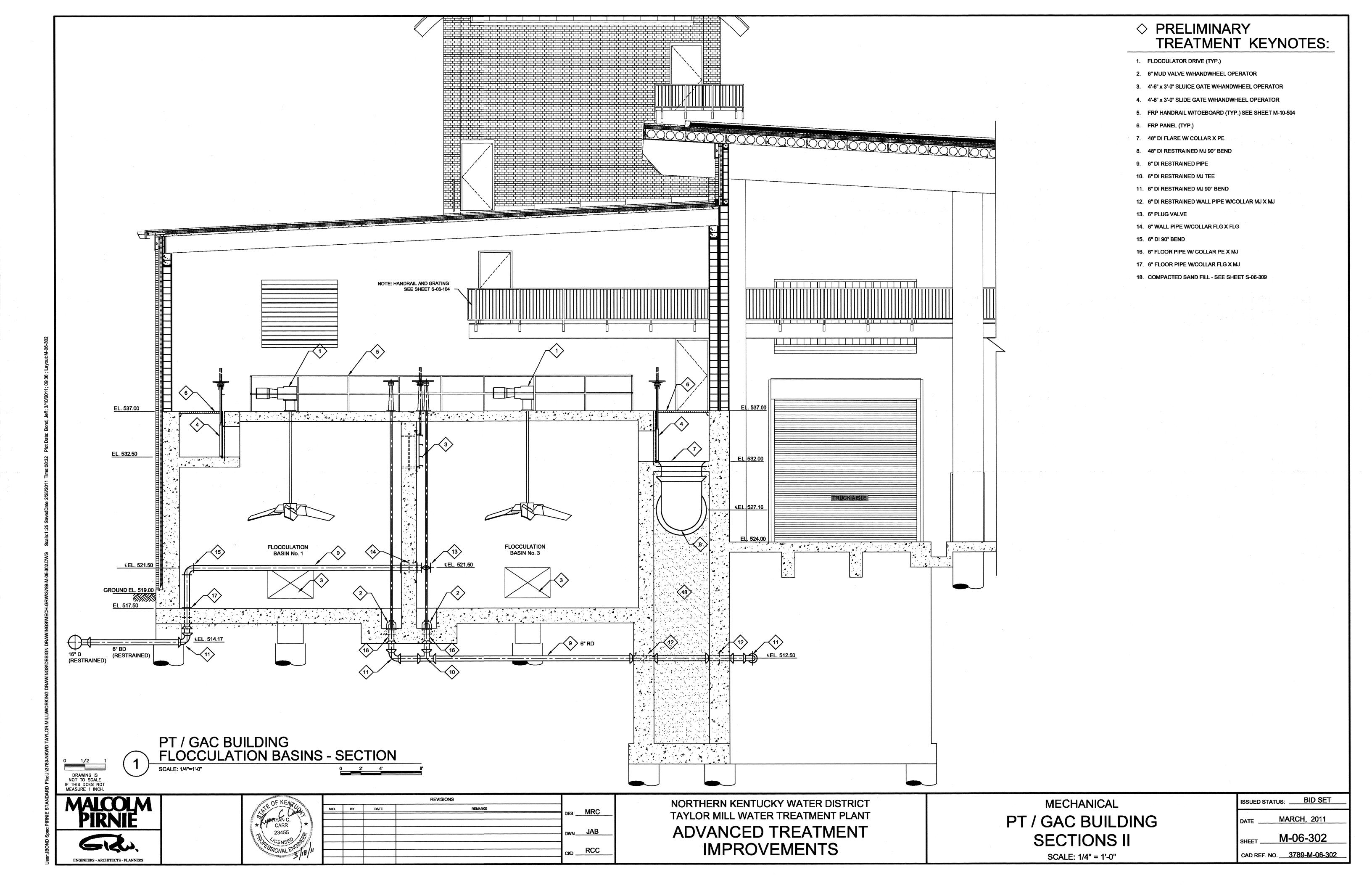
SCALE: 1/8" = 1'-0"

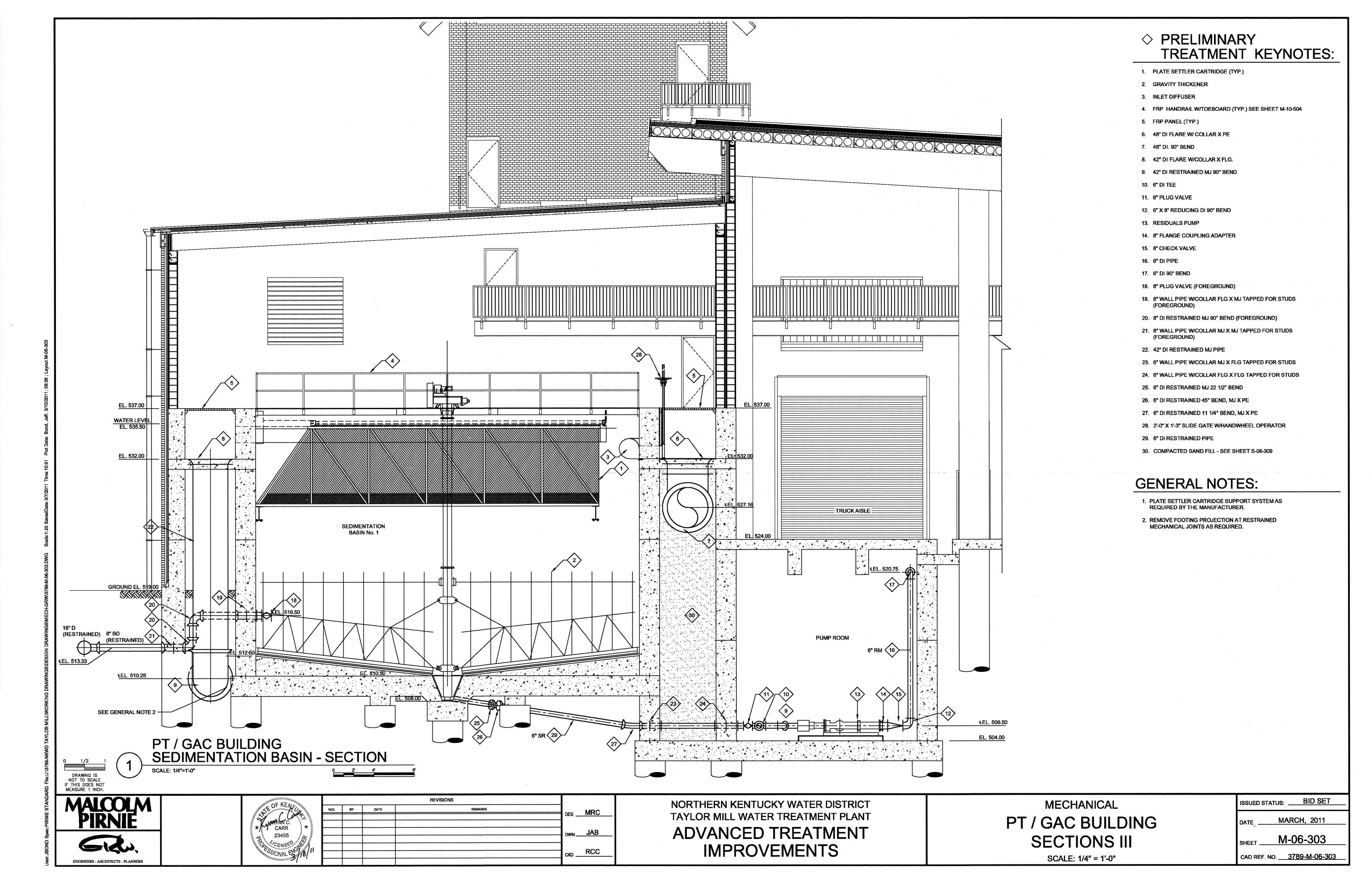
ISSUED STATUS: BID SET MARCH, 2011 M-06-101 CAD REF. NO. <u>3789-M-06-101</u>

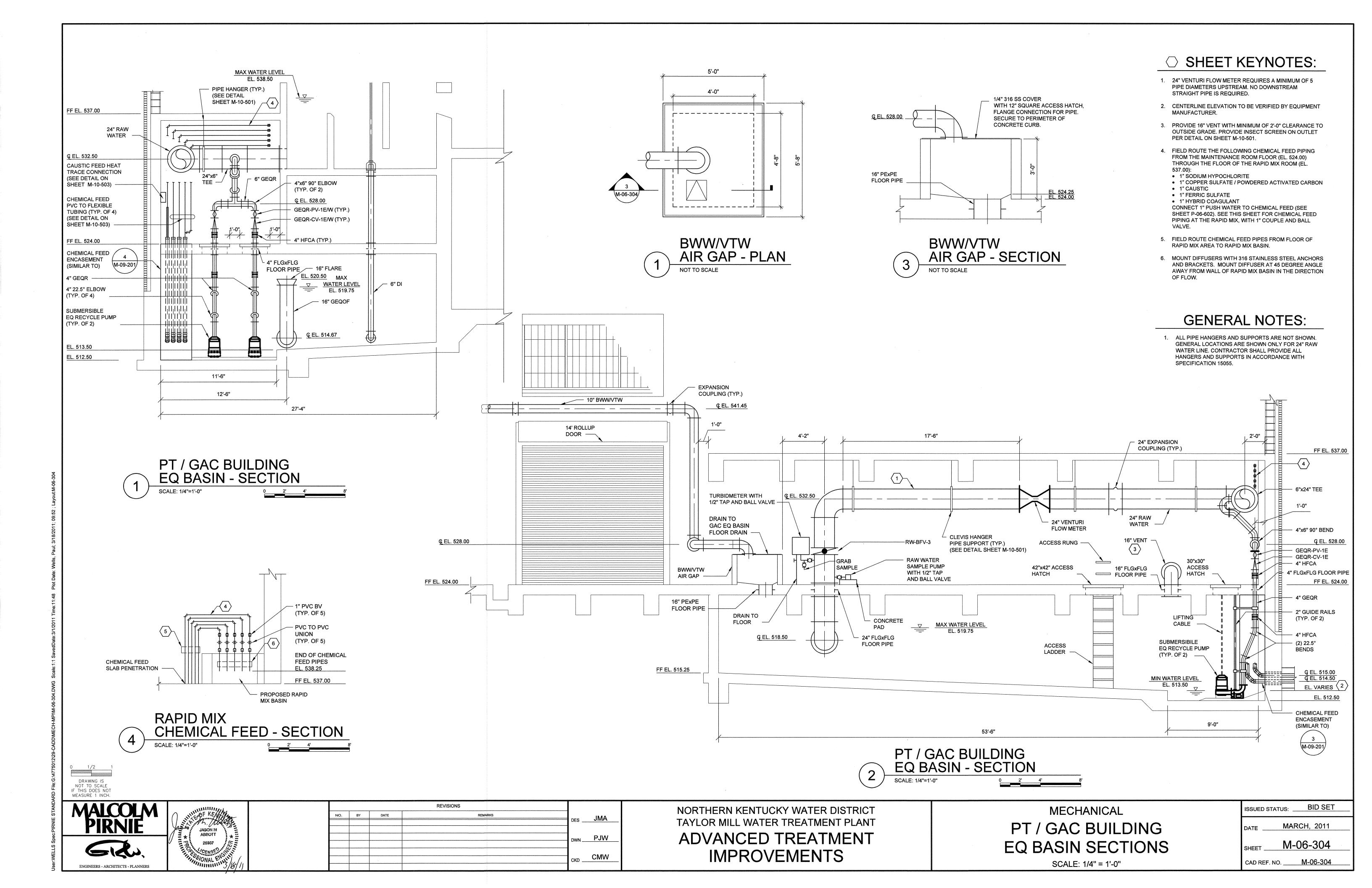


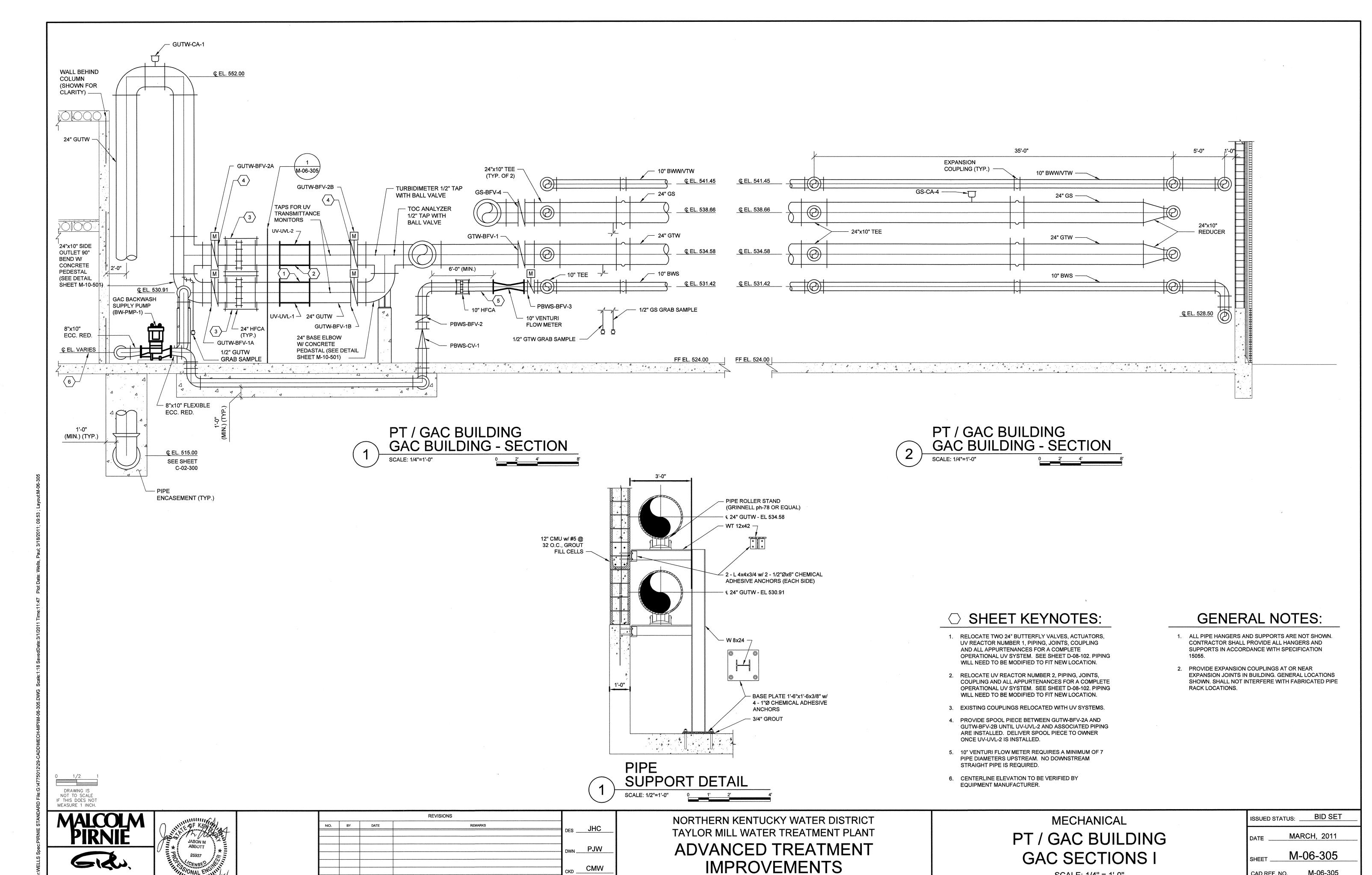












SCALE: 1/4" = 1'-0"

CAD REF. NO. ______ M-06-305

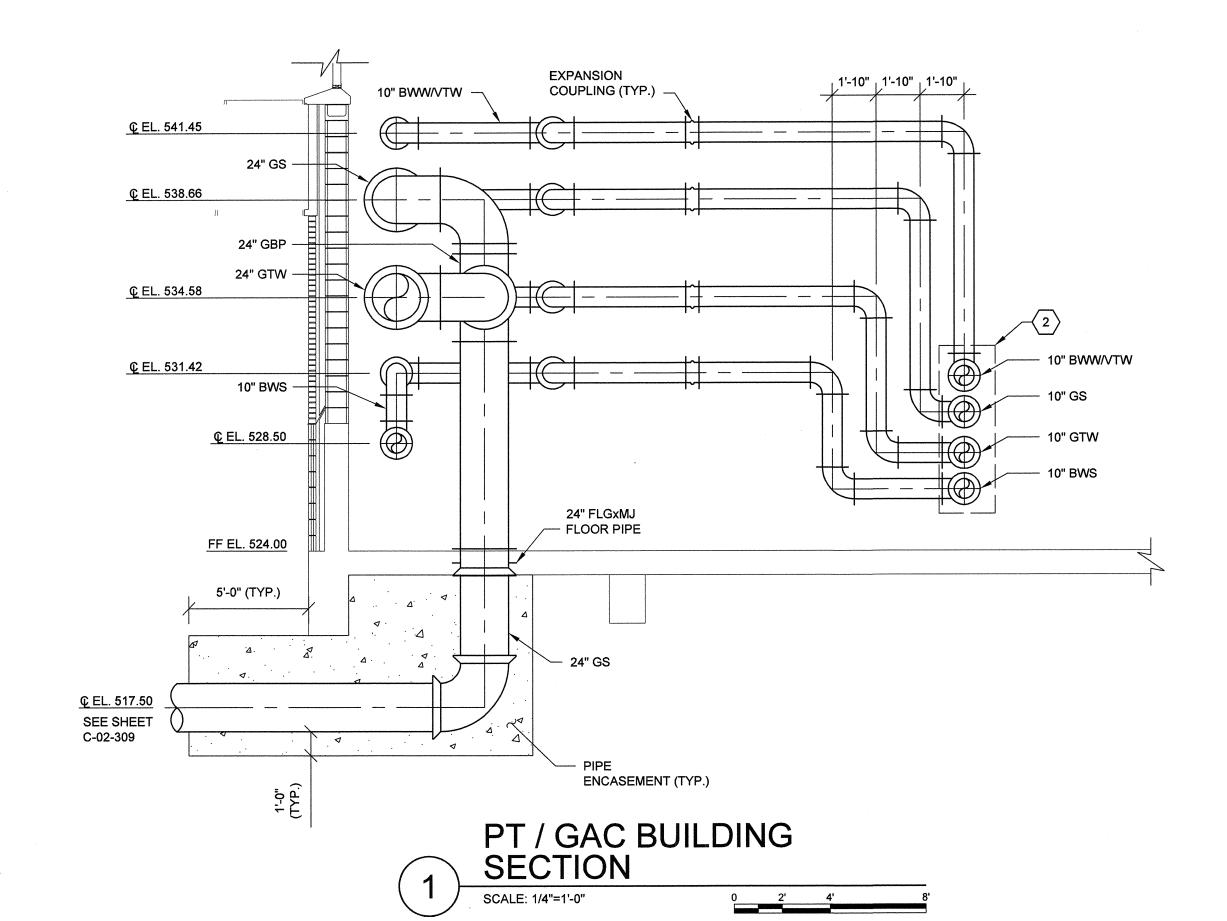
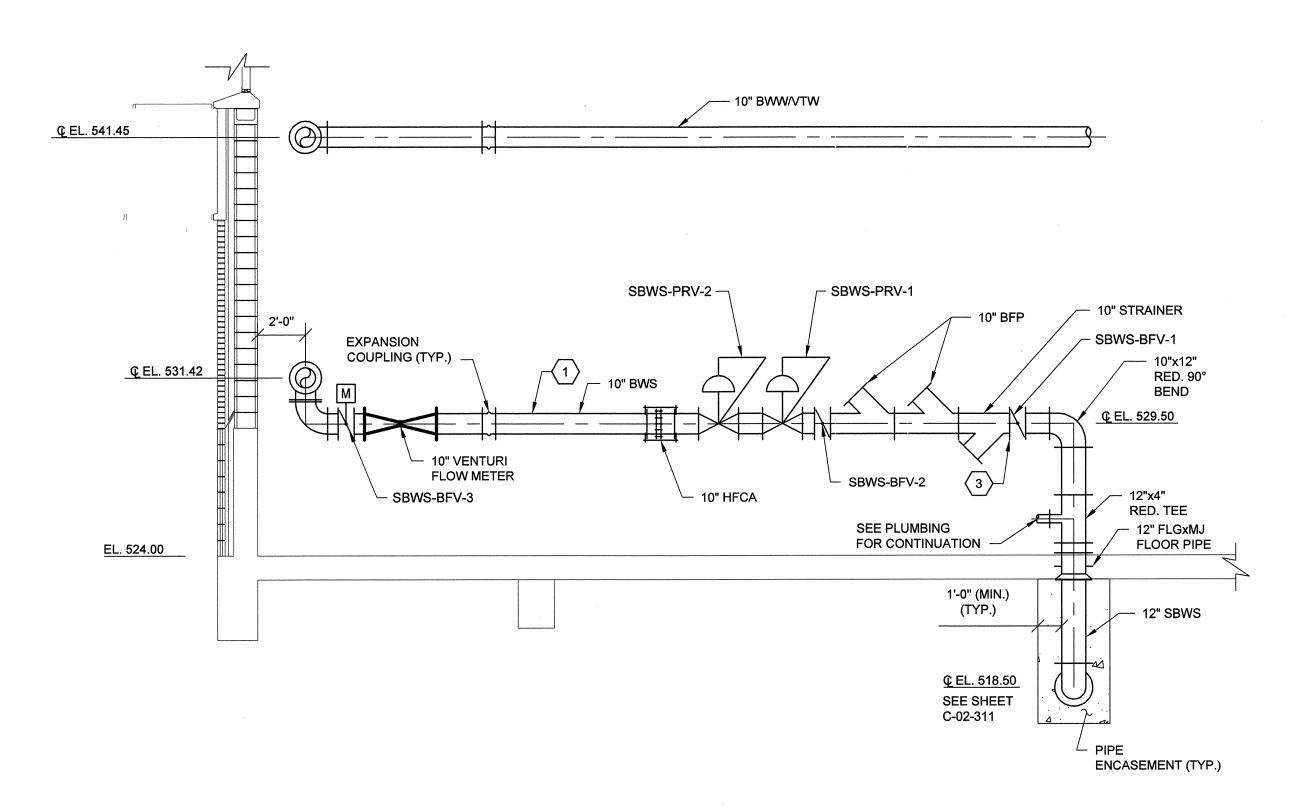


TABLE 1: APPROXIMATE 10" CENTERLINE ELEVATIONS (2)

CENTERLINE ELEVATION	OPTION 1 (CALGON PRESSURE VESSEL)	OPTION 2 (SIEMENS PRESSURE VESSEL)
BWW/VTW	531.27	532.13
GS	529.76	530.29
GTW	528.06	528.25
BWS	526.55	526.21





○ SHEET KEYNOTES:

- 1. 10" VENTURI FLOW METER REQUIRES A MINIMUM OF 9 PIPE DIAMETERS UPSTREAM. NO DOWNSTREAM STRAIGHT PIPE IS REQUIRED.
- 2. CENTERLINE ELEVATIONS OF 10" LINES SHALL BE VERIFIED AND COORDINATED WITH SELECTED GAC PRESSURE VESSEL MANUFACTURER.
- 3. INSTALL TEMPORARY 10" BLIND FLANGE ON VALVE SO THAT PLUMBING CONNECTION CAN BE UTILIZED PRIOR TO THE 10" SBWS BEING PLACED IN SERVICE.

GENERAL NOTES:

- ALL PIPE HANGERS AND SUPPORTS ARE NOT SHOWN. CONTRACTOR SHALL PROVIDE ALL HANGERS AND SUPPORTS IN ACCORDANCE WITH SPECIFICATION 15055
- 2. PROVIDE EXPANSION COUPLINGS AT OR NEAR EXPANSION JOINTS IN BUILDING. GENERAL LOCATIONS SHOWN. SHALL NOT INTERFERE WITH FABRICATED PIPE RACK LOCATIONS.

1/2 1

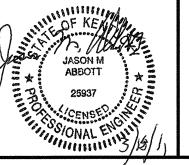
DRAWING IS

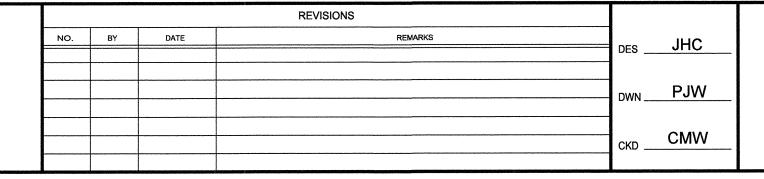
NOT TO SCALE

F THIS DOES NOT

MEASURE 1 INCH.







NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT

ADVANCED TREATMENT IMPROVEMENTS

MECHANICAL
PT / GAC BUILDING
GAC SECTIONS II

DATE MARCH, 2011
SHEET M-06-306

CAD REF. NO. <u>M-06-306</u>

ISSUED STATUS:

BID SET

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