NORTHERN KENTUCKY WATER DISTRICT KENTON COUNTY, KENTUCKY

TAYLOR MILL WATER TREATMENT PLANT ELECTRICAL AND BASIN IMPROVEMENTS

DRAWINGS FOR: **NKWD PROJECT NO. 184-0476** DOW LOAN NO. DWL 13060

JANUARY 2014

PRESIDENT/CEO **RON LOVAN**

NORTHERN KENTUCKY WATER DISTRICT BOARD OF COMMISSIONERS

FRED MACKE JR	
CLYDE CUNNINGHAM	
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PAT SOMMERKAMP	
ANDREW COLLINS	

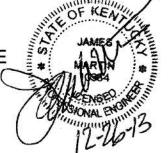




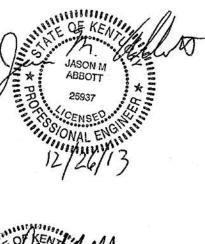
4665 CORNELL ROAD SUITE 350 CINCINNATI, OH 45241



861 CORPORATE DRIVE SUITE 210 (LEXINGTON, KY 40503

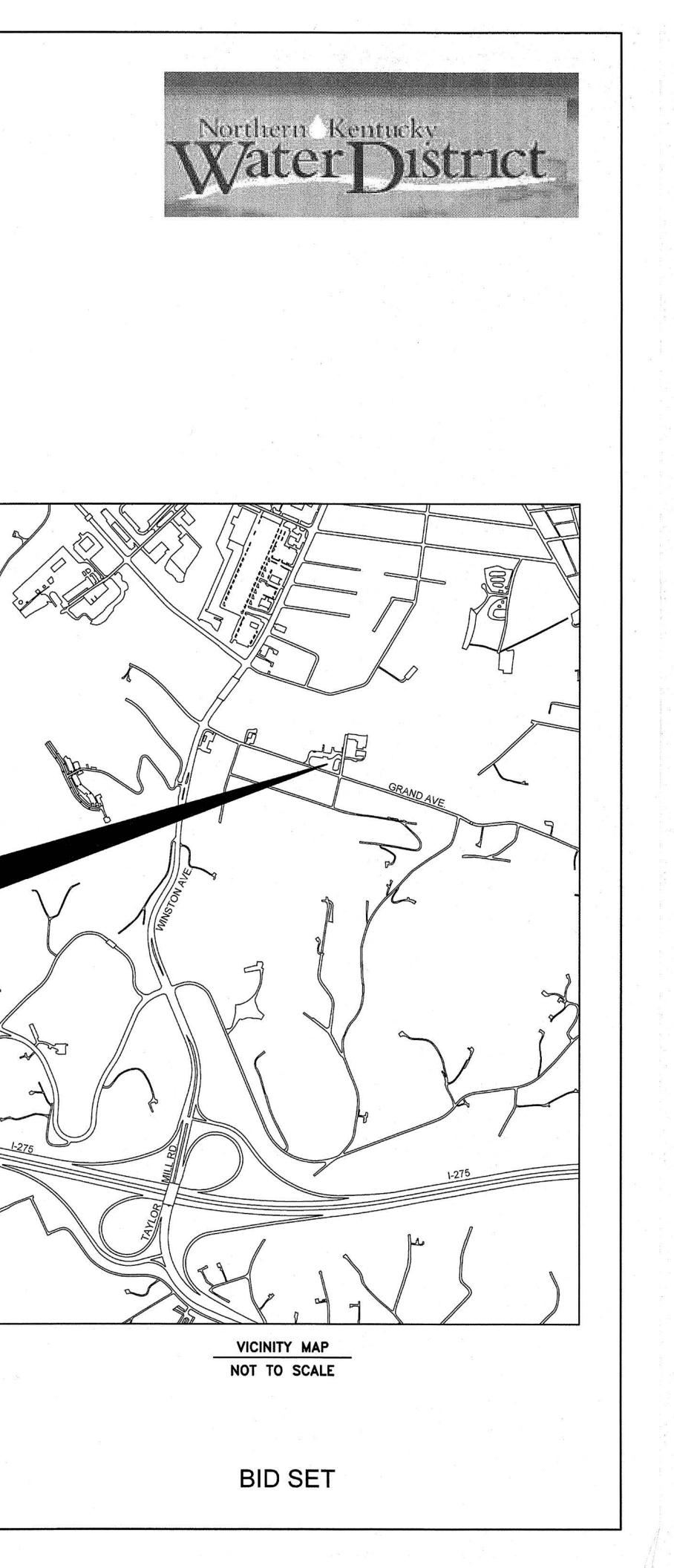








PROJECT SI 608 GRAND AVENUE TAYLOR MILL, KY 41015

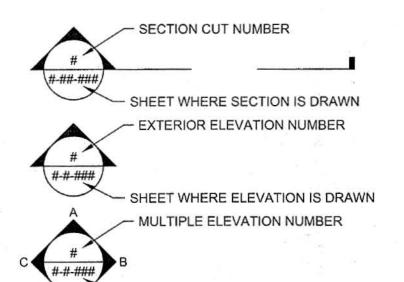


DWG NO	DESCRIPTION	
SHEET NO.	GENERAL	
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G-00-003	NOTES, SYMBOLS, AND ABBREVIATIONS	
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E-01-004	FILTER BUILDING POWER PLAN AT EL. 525.50	
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E-01-006	FILTER BUILDING MEZZANINE POWER PLAN AT EL. 535.00 I	
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	FILTER BUILDING THIRD FLOOR LIGHTING PLAN AT EL.545.00	
E-01-008		
E-01-008 E-01-009	FILTER BUILDING THIRD FLOOR POWER PLAN AT EL. 545.00 I	

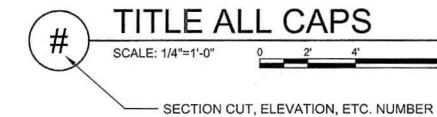


	INDEX OF DRAWINGS			
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	INDEX OF DRAWINGS NOTES, SYMBOLS, AND ABBREVIATIONS			
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	FILTER BUILDING - BACK PUMP ROOM MODIFICATION PLANS FILTER BUILDING - BACK PUMP ROOM MODIFICATION SECTIONS			
M-02-001 SHEET NO.	BASINS MODIFICATION PLAN AND SECTION STRUCTURAL			
S-00-001	GENERAL STRUCTURAL NOTES AND ABBREVIATIONS			
S-02-002	OVERALL DEMOLITION PLAN DEMOLITIONS SECTIONS			
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A-01-003	FILTER BUILDING PLANS AT EL. 525.50 AND 555.00 FILTER BUILDING PLAN AT EL. 545.00, SECTION AND DETAILS FILTER BUILDING ROOF PLAN AND SECTIONS			
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A-01-006 SHEET NO.	FILTER BUILDING SECTION AND DETAILS SHEET HVAC			
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	FILTER BUILDING PUMP ROOM HVAC PLANS AT EL. 525.50 FILTER BUILDING THIRD FLOOR AND PARTIAL ROOF HVAC PLANS			
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SHEET NO. E-00-001	GENERAL SYMBOLS AND ABBREVIATIONS			
	DETAILS AND SCHEDULES POWER SYSTEM ONE LINE DIAGRAM			
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E-01-007	FILTER BUILDING MEZZANINE POWER PLAN AT EL. 535.00 II FILTER BUILDING THIRD FLOOR LIGHTING PLAN AT EL.545.00			
E-01-009	FILTER BUILDING THIRD FLOOR POWER PLAN AT EL. 545.00 I			
	FILTER BUILDING THIRD FLOOR POWER PLAN AT EL. 545.00 II TUNNEL ELECTRICAL PLANS			
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aona	25937 *		DRAWINGS	SHEET G-00-0





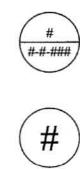
SHEET WHERE ELEVATION IS DRAWN



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TYPICAL DETAIL TAG

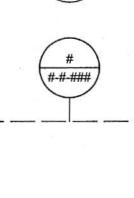
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DETAIL INDICATOR



DETAIL INDICATOR



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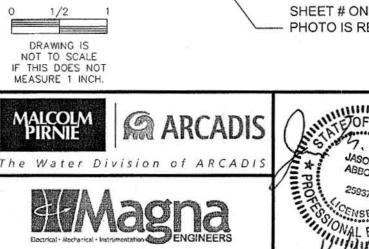
DETAIL INDICATOR WITH AREA

TYPICAL PHOTO TAG

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TYPICAL NOTE TAG

○ SHEET KEYNOTES:

1. KEYNOTES

- 4.

GENERAL NOTES:

1. GENERAL NOTES

- 2.
- 3.

TYPICAL NORTH SYMBOL



NORTH ARROW

AB	ANCHOR BOLT
ABAN.	ABANDONED
AC	ASPHALT CONCRETE PAVEMENT
ADD'L.	ADDITIONAL
ADJ.	ADJUSTABLE
AH	ACCESS HATCH
ALUM.	ALUMINUM
ALT.	ALTERNATE
ARCH	ARCHITECTURE
BF	BLIND FLANGE
BFV	BUTTERFLY VALVE
BITUM.	BITUMINOUS
BL	BASELINE
BLDG.	BUILDING
BM	BENCH MARK
BM.	BEAM
BOP	BOTTOM OF PIPE
BOT.	BOTTOM
BRG	BEARING
BRP	BUILDING REFERENCE POINT
BW	BACKWASH
BWS	BACKWASH SUPPLY
BWW	BACKWASH WASTE
C	
	CENTERLINE
C/C	CENTER TO CENTER
CB	CATCH BASIN
CHEM	CHEMICAL LINE
CHH	COMMUNICATION HANDHOLE
CJ	CONSTRUCTION JOINT
CL.	CLEAR
CMH	COMMUNICATION MANHOLE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL.	COLUMN
CONC.	CONCRETE
CONN	CMU CORNER OF EXT. FACE
CONT.	CONTINUED
CPLG.	COUPLING
CTW	CONTACTOR TO WASTE
CY	CUBIC YARD(S)
CW	COLD WATER (POTABLE)
D	DRAIN
DET.	DETAIL
DIP	DUCTILE IRON PIPE
DIA.	DIAMETER
DIM	DIMENSION
DISCH.	DISCHARGE
DMH	DROP MANHOLE
DN.	DOWN
DTL	DETAIL
	DRAWINGS
DWGS	
DWL.	DOWELS

ANCHOR BOLT

AB

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IDENTIFYING LETTERS FOR GROUP OF DRAWINGS

	GENERAL
	MECHANICAL
	STRUCTURAL
	ARCHITECTURAL
	HVAC
<u>.</u>	ELECTRICAL

TMTP AREA LEGEND

AREA IDENTIFIER NUMBER	AREA DESCRIPTION
00	GENERAL SHEETS
01	FILTER BUILDING
02	SEDIMENTATION BASINS

DIMENSIONS:

•)	DENOTES DIMENSIONS TO BE
	DETERMINED BY MANUFACTUR
**)	DENOTES DIMENSIONS TO BE

JFACTURER TO BE DETERMINED IN FIELD BY CONTRACTOR.

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NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ELECTRICAL AND BASIN **IMPROVEMENTS**

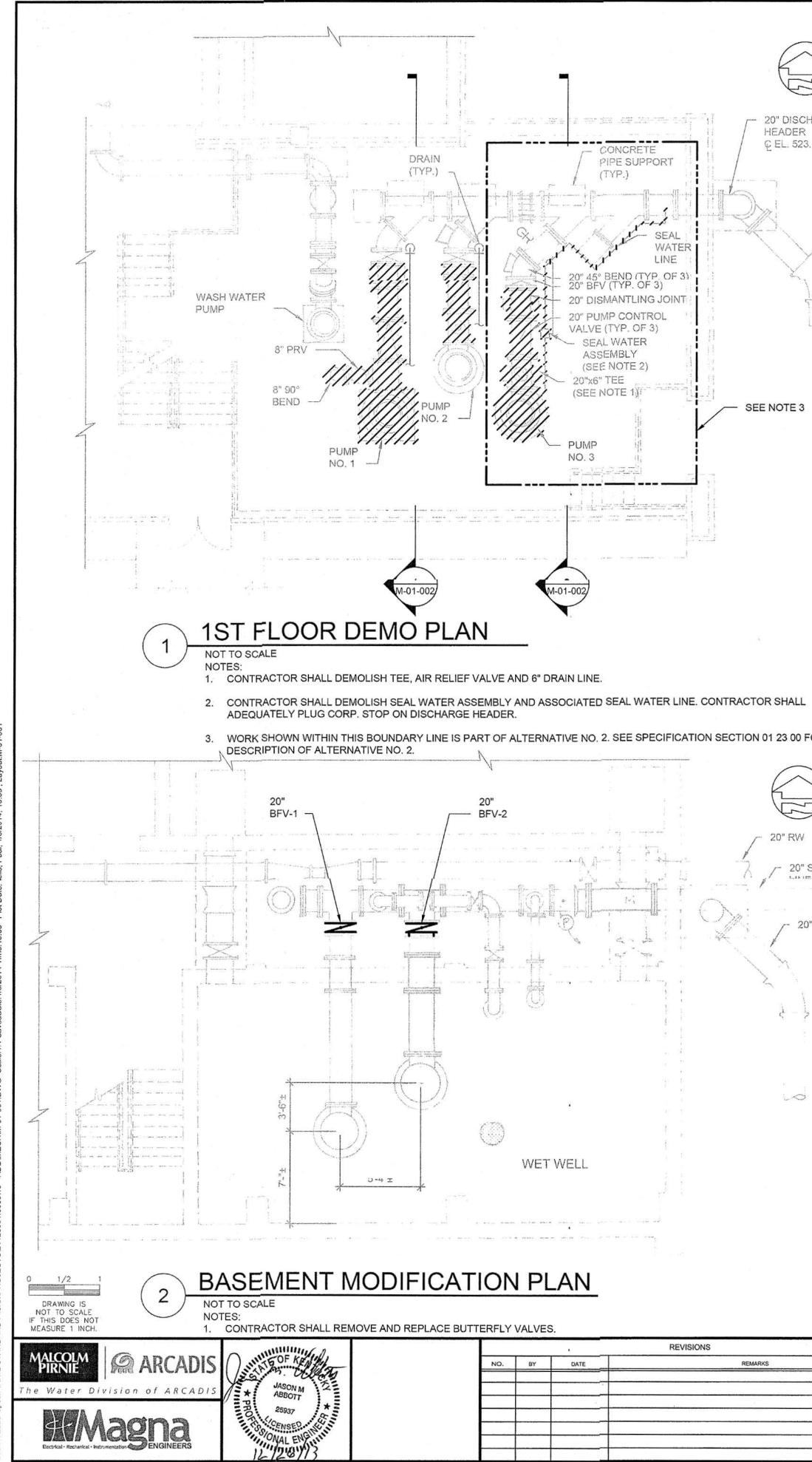
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MECHANICAL ABBREVIATIONS

EA.	EACH	MGD	MILLION GALLONS PER DAY
ECC	ECCENTRIC	MH	MANHOLE
EDB	ELECTRICAL DUCT BANK	MIN.	
EF			MINIMUM
	EACH FACE	MIPT	MALE IRON PIPE THREAD
EFF.	EFFLUENT	MJ	MECHANICAL JOINT
EJ	EXPANSION JOINT	MO	MASONRY OPENING
EL.	ELEVATION	NC	NORMALLY CLOSED
ELEC.	ELECTRIC	NF	NEAR FACE
EMH	ELECTRICAL MANHOLE	NO	NORMALLY OPEN
EQ.	EQUALIZATION	NO.	NUMBER
EW	EACH WAY	0	OVERFLOW
EX.	EXISTING	OC	ON CENTER
FD	FLOOR DRAIN	OD	OUTSIDE DIAMETER
FDN	FOUNDATION	OF	OUTSIDE FACE
FDND			
FF	FOUNDATION DRAIN	OPNG.	OPENING
	FAR FACE	OPP.	OPPOSITE
FIN.	FINISHED	PC	
FIPT	FEMALE IRON PIPE THREAD	PE	PLAIN END
FLEX.	FLEXIBLE	PI	POINT OF INTERSECTION
FLG.	FLANGE	PL	PLATE OR PROPERTY LINE
FLR.	FLOOR	PSF	POUNDS PER SQUARE FOOT
FTG.	FOOTING	PSI	POUNDS PER SQUARE INCH
FT., '	FEET	PT	POINT OF TANGENCY
GA.	GAGE OR GAUGE	R	RISER
GAC	GRANULAR ACTIVATED CARBON	RED.	REDUCER
GALV.	GALVANIZED	REINF.	REINFORCEMENT OR REINFORCE
GE	GROOVED END JOINT	REQ'D.	REQUIRED
GRD.	GROUND		
GRAT.		RMJ	RESTRAINED JOINT
	GRATING	RM.	ROOM
HB	HOSE BIB	ROW	RIGHT OF WAY
HFCA	HARNESSED FLANGE COUPLING ADAPTER	RPCV	ROTARY PUMP CONTROL VALVE
HORIZ.	HORIZONTAL	SHT.	SHEET
HP	HIGH POINT	SOC	SOCKET
ID	INSIDE DIAMETER	SPA.	SPACING
IF	INSIDE FACE	SR	SHORT RADIUS
IN., "	INCHES	SS	STAINLESS STEEL
INF.	INFLUENT	STD.	STANDARD
INV.	INVERT	STL.	STEEL
JST.	JOIST	STRUC.	
JT.	JOINT	T	TREAD
ĸ	KIP (1000 POUNDS)	and an an	TOP OF
KSF		T/	
LG.	KIPS PER SQUARE FOOT	T&B	TOP AND BOTTOM
	LONG	THK.	THICK
LLH	LONG LEG HORIZONTAL	TYP.	
LLV	LONG LEG VERTICAL	UON	
LR	LONG RADIUS	USG	
LSH	LEVEL SWITCH HIGH	VERT.	VERTICAL
LSLL	LEVEL SWITCH LOW LOW	W/	WITH
MAS	MASONRY	WP	WORK POINT
MAX.	MAXIMUM	WRF	
MCC	MOTOR CONTROL CENTER	WS	WATER STOP
MFR.	MANUFACTURER	WWF	WELDED WIRE FABRIC

GENERAL NOTES, SYMBOLS, ND ABBREVIATIONS SCALE: NO SCALE

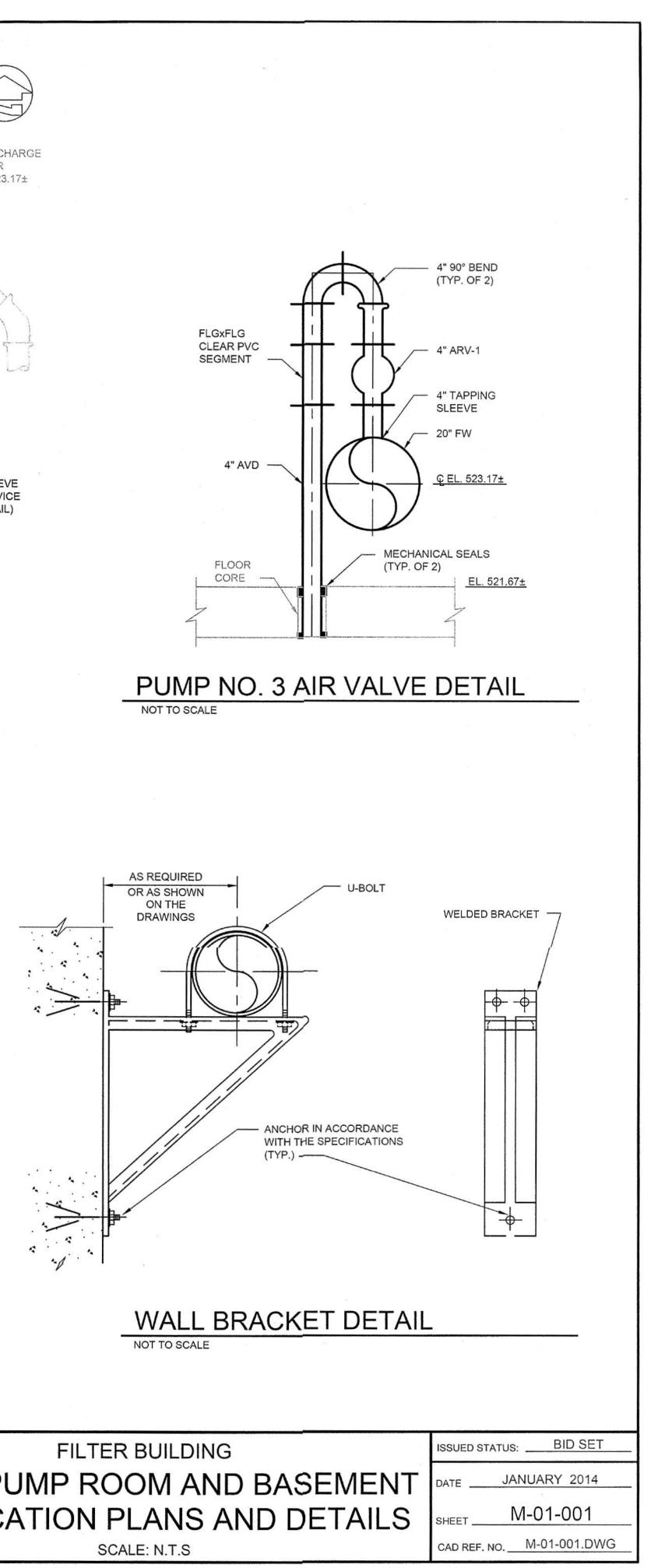
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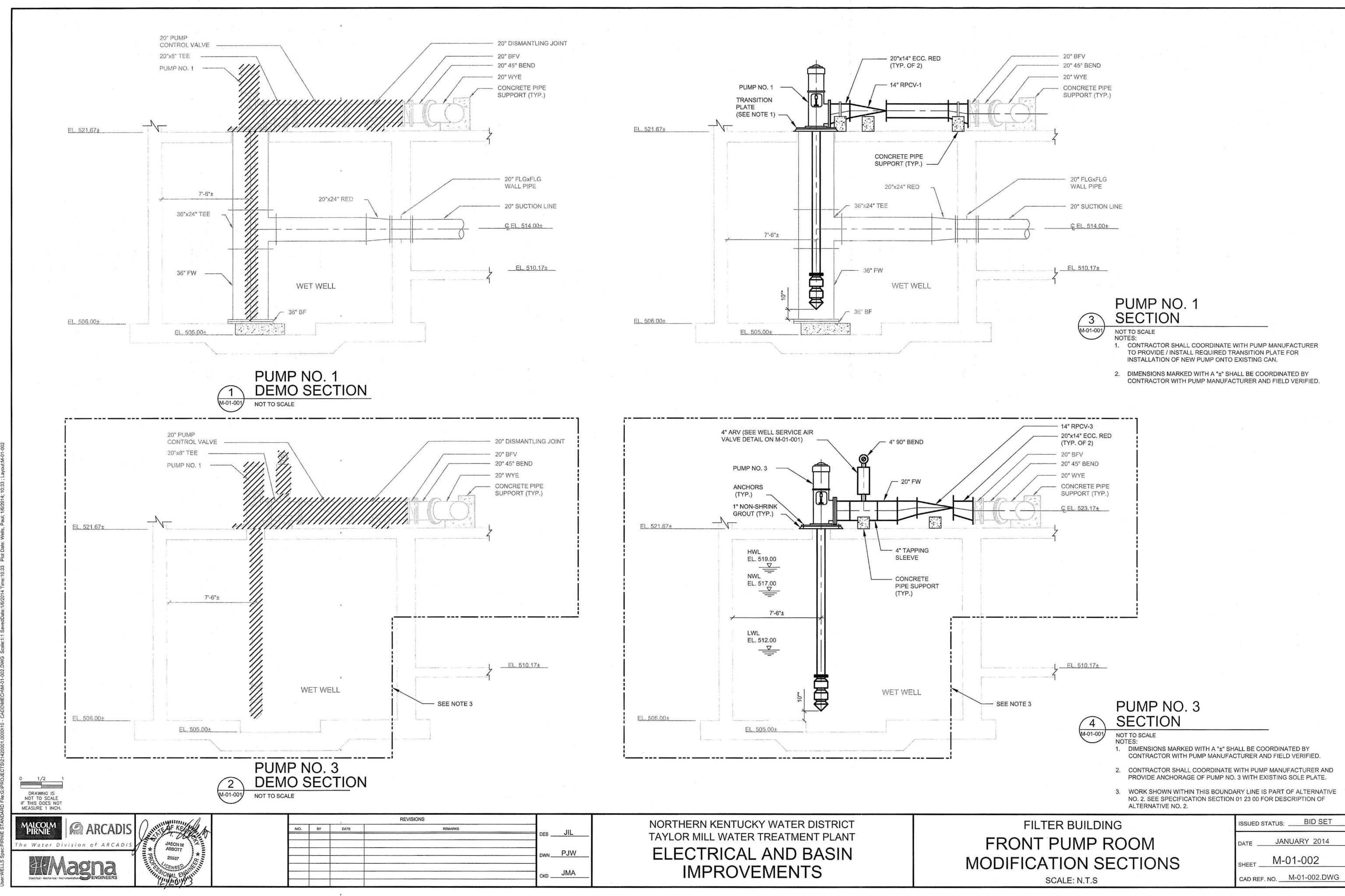


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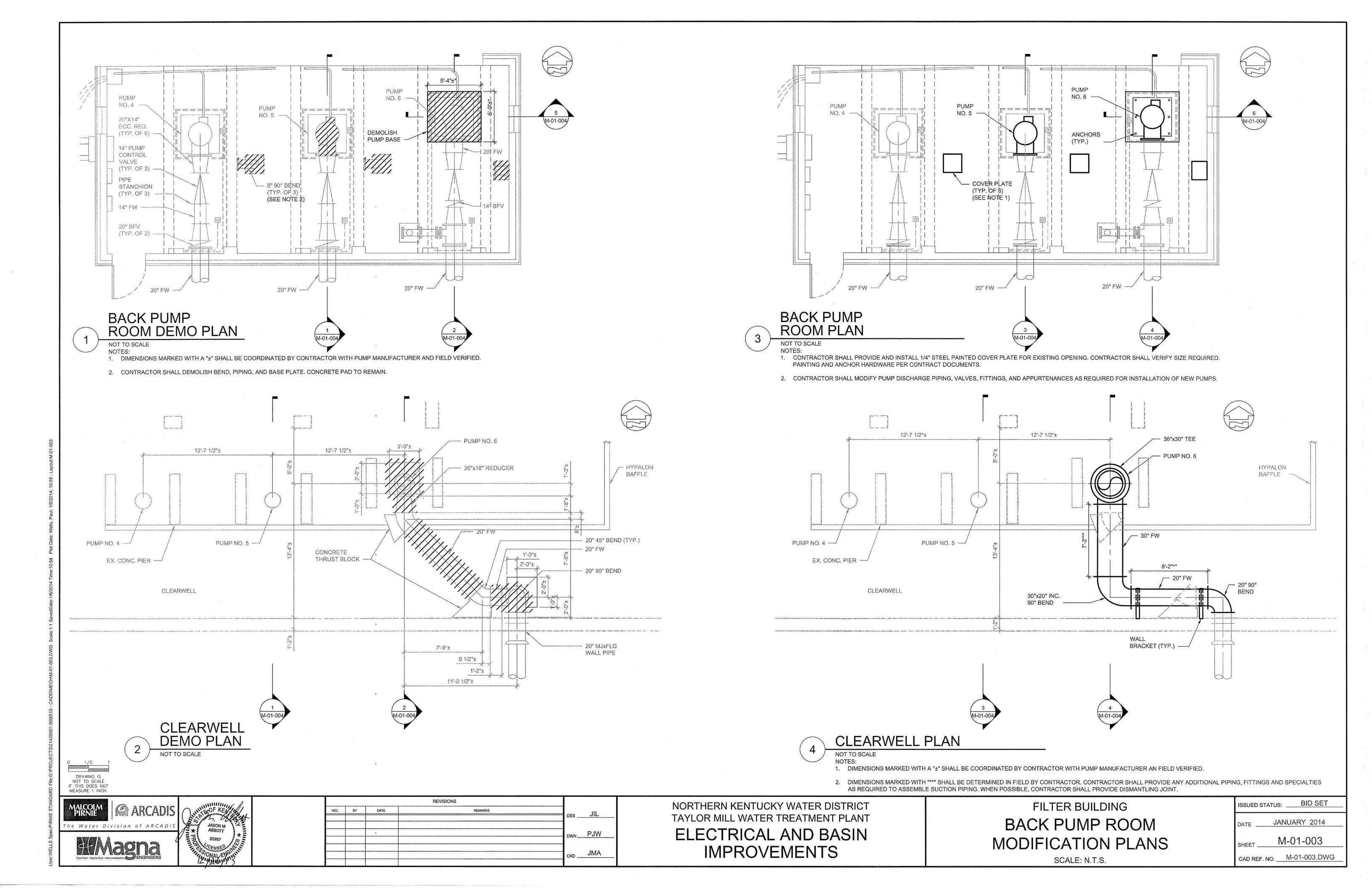
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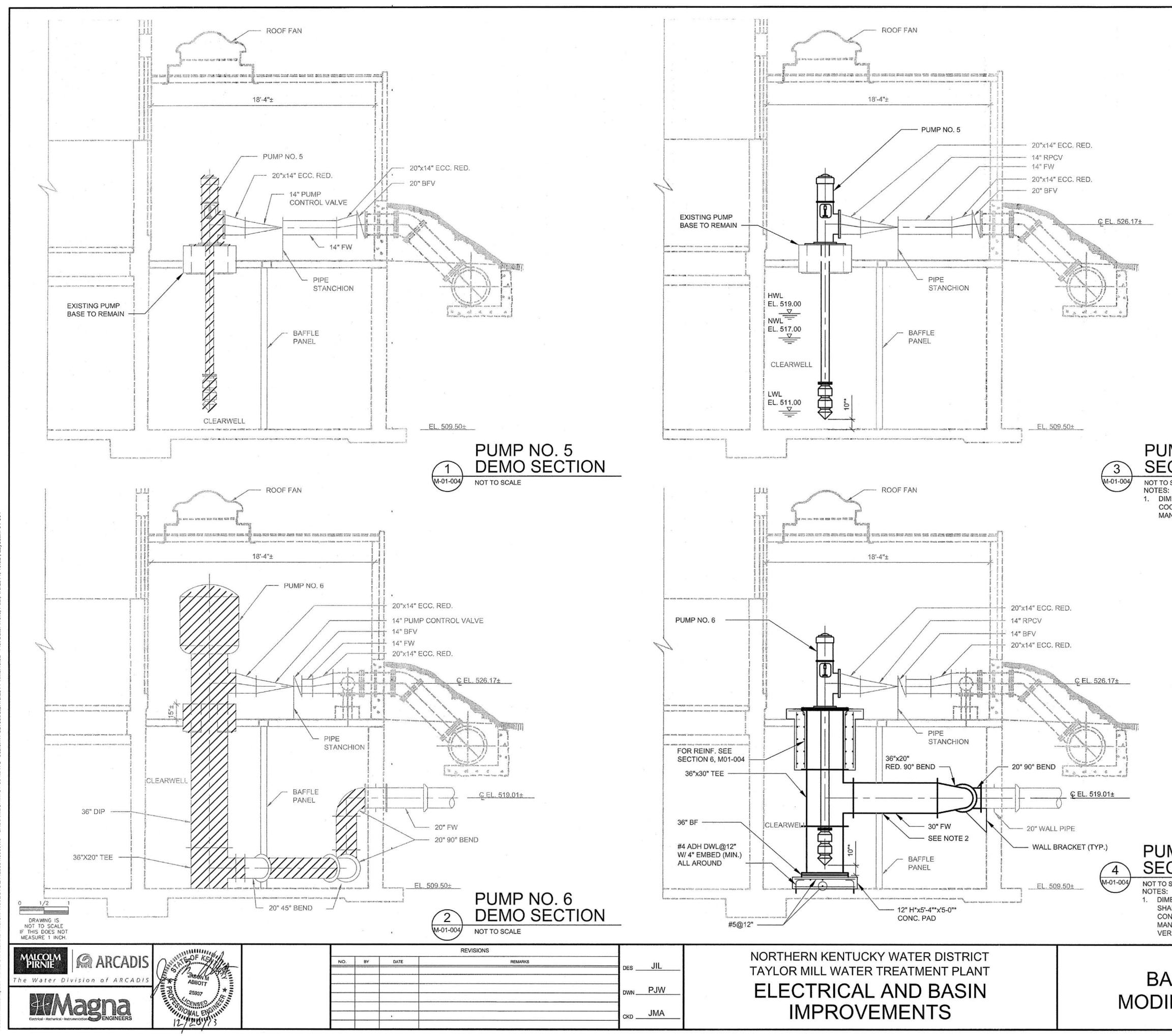
HARGE		
3.17±	14" RPCV-2	20" DISCHA HEADER & EL. 523.1"
	14" FW 14" PDCV_1 WASH WATER PUMP COVER PLATE (SEE NOTE 1) UNASH WATER UMASH	20"x14" ECC. PEP (TYP. OF 6)
	CONCRETE PIPE SUPPORT (TYP.) PUMP NO. 2 PUMP NO. 3	14" RPCV-3 20" FW 20" FW 4" TAPPING SLEEVE (SEE WELL SERVICE AIR VALVE DETAIL)
		And a
	 3 1ST FLOOR PLAN 3 NOT TO SCALE NOTES: 1. CONTRACTOR SHALL PROVIDE AND INSTALL 1/4" GALVANIZED, PAINTED COVER PLATE OVER EXISTING OPENING. CONTRACTOR SHALL VERIFY SIZE REQUIRED. PAINTING AND ANCHOR HARDWARE PER CONTRACT DOCUMENTS. 2. CONTRACTOR SHALL CONNECT EACH RPCV TO ASSOCIATED EXISTING PVC 	
FOR	 CONTRACTOR SHALL CONNECT EXCITATION TO ASSOCIATED EXISTING FVC DRAIN LINE AS REQUIRED. DIMENSIONS MARKED WITH "**" SHALL BE DETERMINED IN FIELD BY CONTRACTOR. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL PIPING, FITTINGS AND SPECIALTIES AS REQUIRED TO ASSEMBLE DISCHARGE PIPING. WHEN POSSIBLE, CONTRACTOR SHALL PROVIDE DISMANTLING JOINT. WORK WITHIN THIS BOUNDARY LINE IS PART OF ALTERNATIVE NO. 2. SEE 	
SUCTION	6" (TYP.)	
D" FW	BLDG. PAPER ON ALL PIPE SUPPORTS 2" CL. (TYP.) ANCHOR BOLTS	D
	AS REQ'D EL. SEE PLAN STD. HOOK HOOK	N.)(TYP.)
	NOT TO SCALE NOTES: 1. SUPPORT TO BE 12" THICK. (U.O.N.) 2. COORDINATE LOCATION OF PIPE SUPPORTS WITH M SHEETS AND SPECIFICATIONS.	<u>AIL</u>
DESIIL 	NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ELECTRICAL AND BASIN IMPROVEMENTS	FRONT PL MODIFICA

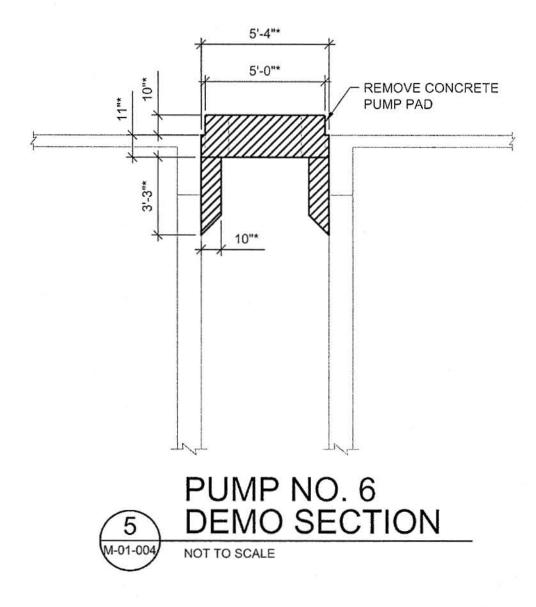




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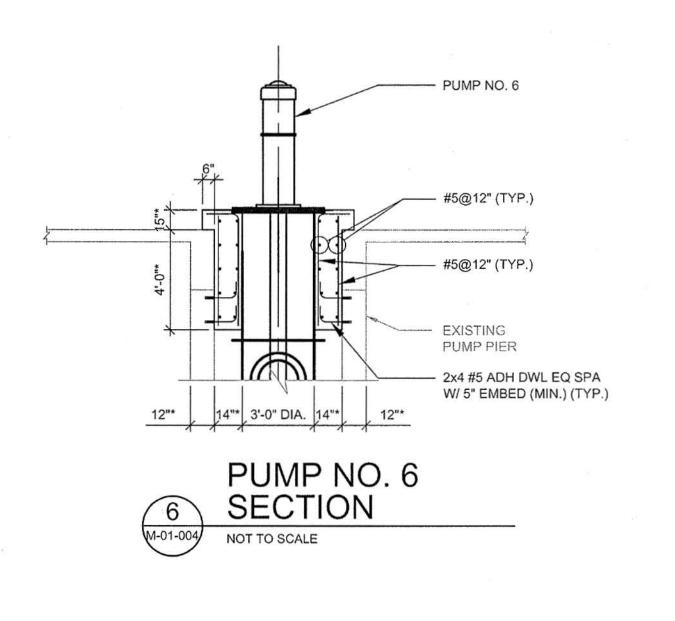




PUMP NO. 5 SECTION

NOT TO SCALE

1. DIMENSIONS MARKED WITH A "±" SHALL BE COORDINATED BY CONTRACTOR WITH PUMP MANUFACTURER AND FIELD VERIFIED.



PUMP NO. 6 SECTION

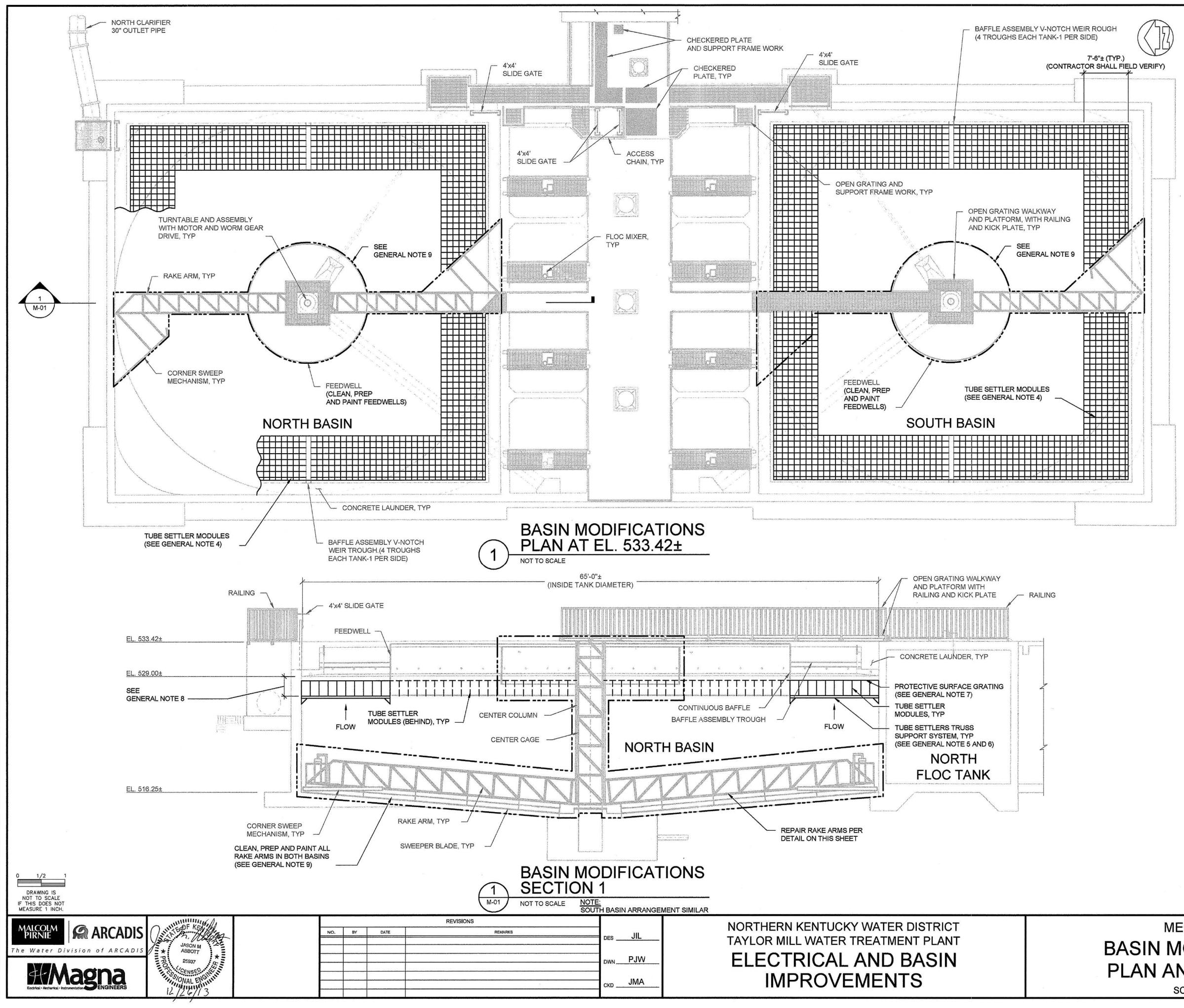
NOT TO SCALE NOTES: 1. DIMENSIONS MARKED WITH A "±" SHALL BE COORDINATED BY CONTRACTOR WITH PUMP MANUFACTURER AND FIELD VERIFIED.

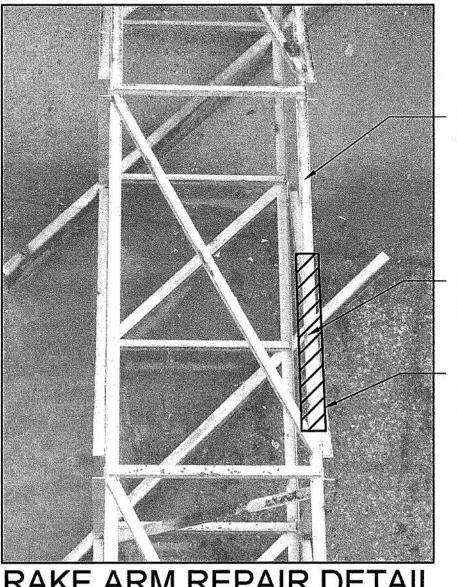
2. CONTRACTOR SHALL CUT OPENING IN BAFFLE PANEL AS REQUIRED TO ADEQUATELY INSTALL PIPING.

FILTER BUILDING BACK PUMP ROOM MODIFICATION SECTIONS

ISSUED S	TATUS: BID SET
DATE	JANUARY 2014
SHEET	M-01-004
CAD REF	NO

SCALE: N.T.S.





EXISTING RAKE ARM

AREA OF RAKE ARM DETERIORATION

Lx SCAB (SEE RAKE ARM NOTE 5)

RAKE ARM REPAIR DETAIL

NOT TO SCALE

RAKE ARM NOTES:

- REPAIR SEDIMENTATION BASIN RAKE ARMS AS GENERALLY INDICATED. REFER TO REPAIR SCHEDULE ON SHEET S-02-008.
- 2. NO EXISTING INFORMATION REGARDING THE DESIGN OR CONSTRUCTION OF THE RAKE ARMS IS AVAILABLE. CONTRACTOR SHALL DETERMINE DIMENSIONS, MEMBER SIZES AND REVIEW EXISTING CONDITIONS ASSOCIATED WITH THE REPAIR PRIOR TO COMMENCING WITH THE WORK.
- 3. PROVIDE INFORMATION SUBMITTAL SUMMARIZING RESULTS OF FIELD MEASUREMENTS, INCLUDING DIMENSIONS AND MEMBER SIZES.
- 4. PROVIDE TEMPORARY SUPPORT OF RAKE ARMS DURING REPAIR.
- 5. REPAIR EXISTING STEEL RAKE ARMS BY PATCHING DETERIORATED AREAS WITH PAINTED STEEL LX MATCHING EXISTING CONSTRUCTION AS DESIRED BY ENGINEER. Lx SHALL HAVE EQUAL LEGS OF SAME LENGTH AND THICKNESS AS EXISTING RAKE ARM CONSTRUCTION.
- 6. EXTEND PATCHING LX A MINIMUM OF 12" BEYOND DETERIORATED AREAS.

GENERAL NOTES:

- 1. BASE DRAWING FROM 1999 RECORD DRAWINGS OF TAYLOR MILL PLANT CHEMICAL BUILDING, CLARIFIER, AND CLEARWELL IMPROVEMENTS PROJECT DESIGNED BY CH2M HILL.
- 2. CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT EXISTING PIPING, VALVES, EQUIPMENT, INSTRUMENTATION AND OTHER ITEMS DURING CONSTRUCTION.
- 3. EXISTING MISCELLANEOUS STRUCTURAL 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.
- 4. CONTRACTOR SHALL DEMOLISH EXISTING TUBE SETTLER MODULES AND REPLACE WITH NEW TUBE SETTLER MODULES PER SECTION 46 43 73.
- 5. CONTRACTOR SHALL REUSE EXISTING TUBE SETTLER TRUSS SUPPORT SYSTEM FOR INSTALLATION OF NEW TUBE SETTLER MODULES PER SECTION 46 43 73.
- CONTRACTOR SHALL FIELD VERIFY DIMENSIONS OF EXISTING TUBE SETTLERS TRUSS SUPPORT SYSTEM AND COORDINATE WITH MANUFACTURER OF TUBE SETTLERS PRIOR TO SUBMITTAL OF SHOP DRAWINGS FOR TUBE SETTLERS PER SECTION 46 43 73.
- 7. CONTRACTOR SHALL INSTALL NEW PROTECTIVE SURFACE GRATING PER SECTION 46 43 73.
- CONTRACTOR SHALL FIELD MEASURE DISTANCE BETWEEN TOP OF TRUSS SUPPORT AND UNDERNEATH EXISTING EFFLUENT LAUNDER. NEW TUBE SETTLER MODULES AND PROTECTIVE SURFACE GRATING SHALL MAINTAIN EXISTING CLEARANCE UNDERNEATH EXISTING EFFLUENT LAUNDER.
- 9. WORK SHOWN WITHIN THIS BOUNDARY LINE IS PART OF ALTERNATIVE NO. 4. SEE SPECIFICATION SECTION 01 23 00 FOR DESCRIPTION OF ALTERNATIVE NO. 4.

MECHANICAL **BASIN MODIFICATION** PLAN AND SECTION SCALE: N.T.S.

SSUED STATUS: JANUARY 2014 M-02-001 SHEET

BID SET

GENERAL

- ITEMS NOTED ON THE DRAWINGS SHALL BE CONSIDERED THE SAME AS NOTED ITEMS WHICH ARE GRAPHICALLY REPRESENTED IN THE SAME MANNER.
- 2. THE SYMBOLS, ABBREVIATIONS, AND LAP SPLICE AND EMBEDMENT TABLE ON THIS SHEET IS A COMPREHENSIVE STANDARD GUIDE FOR GENERAL USE ON ALL PROJECTS. THEREFORE NOT ALL THE SYMBOLS AND ABBREVIATIONS CONTAINED IN THIS LIST ARE NECESSARILY USED ON THIS PARTICULAR PROJECT AND SHOULD BE USED FOR CLARIFICATION ONLY.
- 3. QUALITY OF CONSTRUCTION REQUIRED, PERFORMANCE LEVELS OF WORKMANSHIP, MANUFACTURING AND INDUSTRY STANDARDS, STRENGTH AND PHYSICAL REQUIREMENTS OF MATERIALS, CONFORMANCE TO CODES AND REGULATIONS, GUARANTEES AND OTHER PROJECT REQUIREMENTS ARE SPECIFIED IN THE PROJECT MANUAL.
- 4. IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDICATED BY THE DRAWINGS OR SPECIFICATIONS ARE NOT IN AGREEMENT WITH THESE NOTES. THE BETTER QUALITY AND/OR GREATER QUANTITY, STRENGTH OR SIZE INDICATED, SPECIFIED, OR NOTED SHALL BE PROVIDED.
- 5. PERFORM ALL WORK IN COORDINATION WITH ALL DRAWINGS AND INFORMATION RELATED TO STRUCTURAL WORK. ANY CHANGES TO THE EQUIPMENT REQUIRING CHANGES TO THE STRUCTURAL SYSTEMS SHALL BE REDESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF KENTUCKY AT NO COST TO THE OWNER AND SUBMITTED TO THE ENGINEER. SUBMITTAL SHALL BE ACKNOWLEDGED IN WRITING BEFORE BEGINNING CONSTRUCTION.
- 6. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- 7. FACILITIES HAVE BEEN DESIGNED FOR DESIGN LOADS SHOWN OR SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FACILITIES SUBJECT TO CONSTRUCTION LOADS EXCEEDING THE DESIGN LOADS AND SHALL NOTIFY THE ENGINEER OF ANY SUCH ADDITIONAL LOADS.
- 8. ALL DIMENSIONS AND ELEVATIONS NOTED THUS (*) ON STRUCTURES SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD OR WITH THE EQUIPMENT MANUFACTURER AND SHALL CONFORM TO THOSE SHOWN ON OTHER DRAWINGS.
- 9. DES
- 200

ESIGN LOADS: BASED ON THE KENTUCKY BUILDING CO 07 EDITION.	DE,
FLOOR LIVE LOADS: - SEE PLANS	13.2
SNOW LOAD:	
- GROUND SNOW LOAD, Pg - SNOW EXPOSURE FACTOR - SNOW LOAD IMPORTANCE FACTOR: - THERMAL FACTOR	20 PSF 0.9 1.1 1.1
WIND LOAD:	
- BASIC WIND SPEED - WIND IMPORTANCE FACTOR: - WIND EXPOSURE - COMPONENTS AND CLADDING (SEE SPECIFICA ⁻	90 MPH 1.15 C TIONS)
EARTHQUAKE DESIGN DATA:	
- SEISMIC IMPORTANCE FACTOR: - OCCUPANCY CATEGORY - SPECTRAL RESPONSE ACCELERATIONS, Ss - SPECTRAL RESPONSE ACCELERATIONS, S1 - SITE CLASS - SPECTRAL RESPONSE COEFFICIENT, S∞	1.25 III 0.180 0.076 D 0.144
는 동안 13 2010년 2011년 2017년 2012년 2017년 2017년 2017년 2017년 2017년 2017년 2017년 2017년 2017년 ²⁰¹⁷	

- SPECTRAL RESPONSE COEFFICIENT, Sps 0.086
- SPECTRAL RESPONSE COEFFICIENT, S D1 SEISMIC DESIGN CATEGORY
- 10. FOR PAINTING SYSTEM REQUIREMENTS REFER TO SPECIFICATION SECTION 09 91 00.

CAST-IN-PLACE CONCRETE

- 1. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:
- A. 4,500 POUNDS PER SQUARE INCH (PSI) WITH ENTRAINED AIR FOR ALL CONCRETE UNLESS SPECIFICALLY NOTED OTHERWISE.
- 2. ALL CONCRETE WORK NOT COVERED UNDER ACI 350 SHALL BE IN ACCORDANCE WITH "THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" ACI 318. TOLERANCES SHALL BE IN ACCORDANCE WITH ACI 347, SECTION 3.3.1, TOLERANCES FOR REINFORCED CONCRETE BUILDINGS.
- 3. ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.
- 4. ALL REINFORCING DETAILS SHALL CONFORM TO "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT". ACI 315. UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.
- 5. CONTRACTOR SHALL REVIEW ALL DRAWINGS FOR SIZE AND LOCATION OF EMBEDDED ITEMS, SLEEVES, SLAB DEPRESSIONS, REQUIRED. THESE ITEMS SHALL BE FURNISHED AND INSTALLED PRIOR TO PLACEMENT OF CONCRETE.
- 6. ALL BEAMS, SPANDRELS AND SLABS SHALL BE CAST MONOLITHICAL-LY, EXCEPT FOR REQUIRED CONSTRUCTION JOINTS. CONTRACTOR SHALL SUBMIT ANY AND ALL ALTERNATE AND ADDITIONAL CON-STRUCTION JOINT LOCATIONS AND DETAILS.
- 7. CONSTRUCTION JOINTS REQUIRED BY THE ENGINEER ARE SHOWN ON THE DRAWINGS. ADDITIONAL CONSTRUCTION JOINTS SHALL BE PROVIDED AS OUTLINED IN SPECIFICATIONS. REINFORCEMENT SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS. SUBMIT ALL CON-STRUCTION JOINT LOCATIONS WITH REINFORCING STEEL SHOP DRAWINGS.
- 8. CONTRACTOR SHALL PROVIDE 3/4 INCH CHAMFER USING WOOD CHAMFER STRIPS ON ALL EXPOSED CORNERS OF COLUMNS, BEAMS AND WALLS, OR AS REQUIRED TO MATCH EXISTING.
- 9. COVER FOR REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING:

TYPICAL REINFORCING BAR COVER TABLE SURFACES EXPOSED TO LIQUIDS, EARTH OR WEATHER 2"

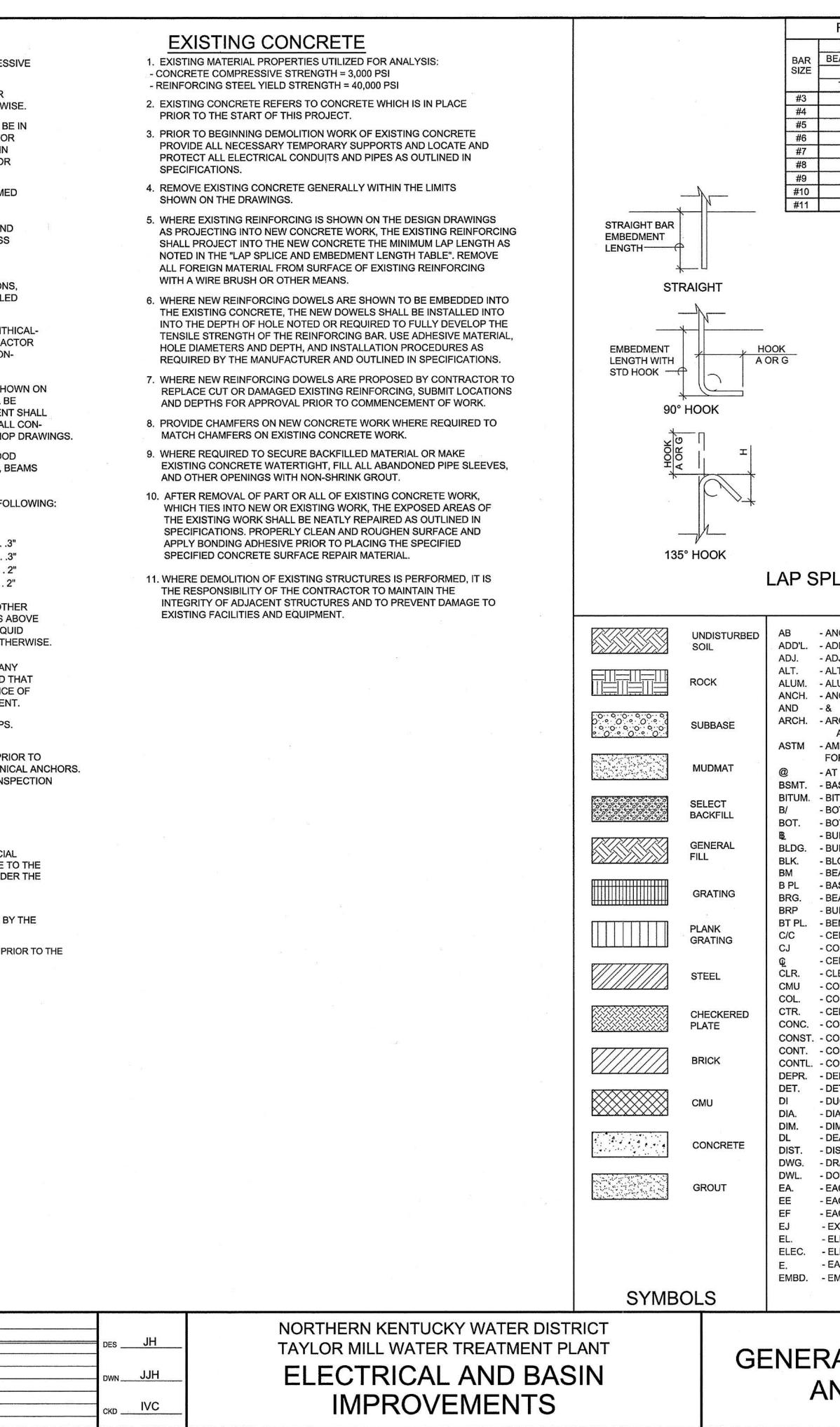
- 10. PROVIDE WATERSTOPS IN ALL FOUNDATIONS, TANKS AND OTHER SUBSTRUCTURES UP TO AN ELEVATION AT LEAST 12 INCHES ABOVE GRADE OR TO AN ELEVATION AT LEAST 12 INCHES ABOVE LIQUID LEVEL IN TANKS, WHICHEVER IS HIGHER, UNLESS SHOWN OTHERWISE.
- 11. CALCIUM CHLORIDE SHALL NOT BE PERMITTED NOR SHALL ANY ADMIXTURE CONTAINING CALCIUM CHLORIDE BE PERMITTED THAT RESULTS IN A TOTAL CONCRETE MIX IN WHICH THE PRESENCE OF CHLORIDE IONS EXCEED 0.10 PERCENT BY WEIGHT OF CEMENT.
- 12. ALUMINUM PIPE SHALL NOT BE USED WITH CONCRETE PUMPS.
- 13. CONTRACTOR SHALL LOCATE ALL EXISTING REINFORCING PRIOR TO INSTALLING ADHESIVE DOWELS AND ADHESIVE AND MECHANICAL ANCHORS. CONTRACTOR SHALL USE X-RAY TYPE NON-DESTRUCTIVE INSPECTION METHOD.

SPECIAL INSPECTION

- OWNER WILL RETAIN THE INSPECTION SERVICES FOR SPECIAL INSPECTION. ON SITE INSPECTION WILL BE IN ACCORDANCE TO THE KENTUCKY BUILDING CODE - SECTION 17 REGULATIONS UNDER THE SUPERVISION OF A QUALIFIED INSPECTOR
- TESTING SERVICES SHALL BE PERFORMED AS STIPULATED BY THE SPECIFICATIONS.
- 3. CONTRACTOR SHALL NOTIFY INSPECTION AT LEAST 48 HOURS PRIOR TO THE START OF WORK.

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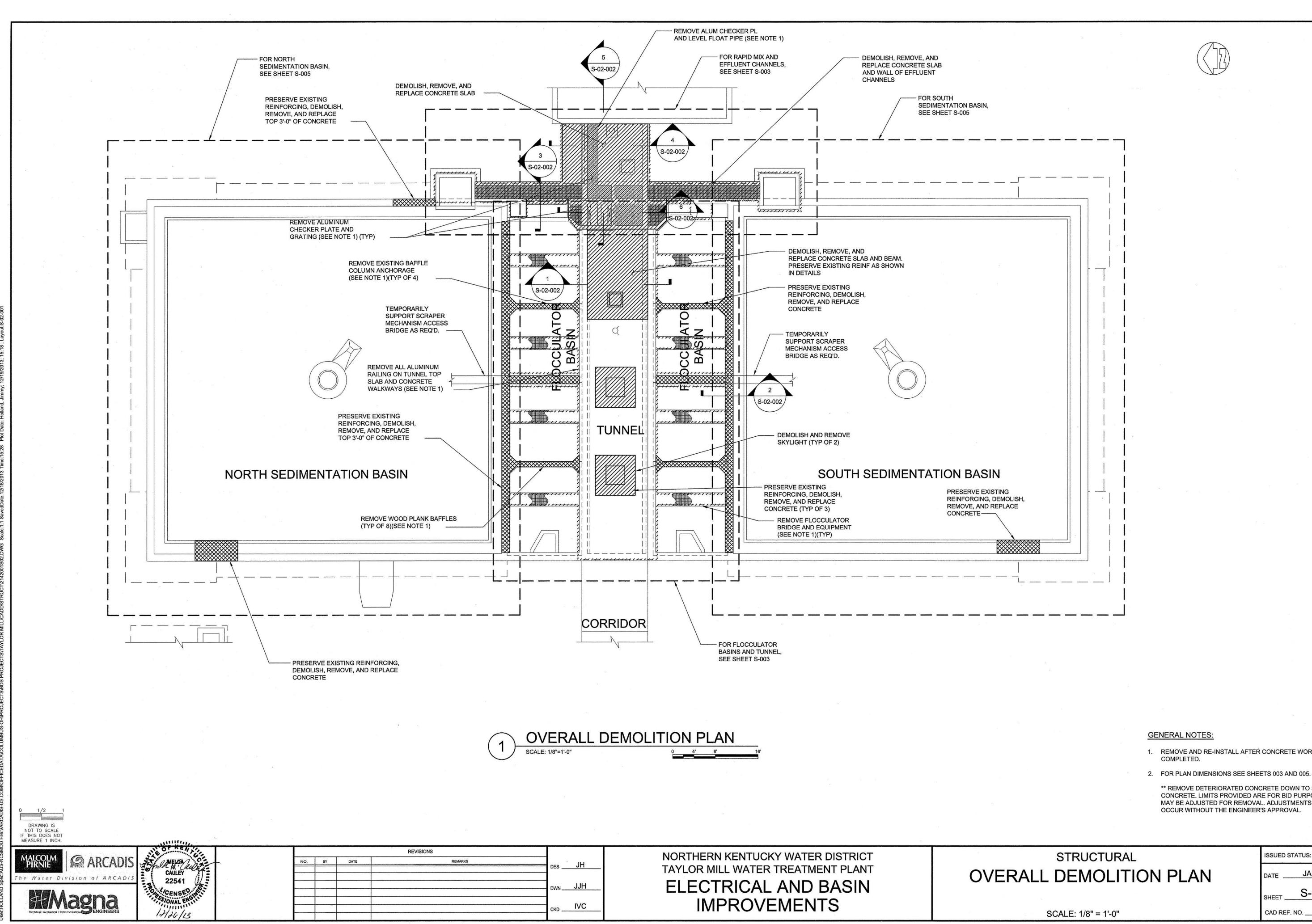


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STRUCTURAL GENERAL STRUCTURAL NOTES, AND ABBREVIATIONS

ISSUED STATUS: ____ BID SET JANUARY 2014 DATE S-00-001 SHEET CAD REF. NO. 2142001S01

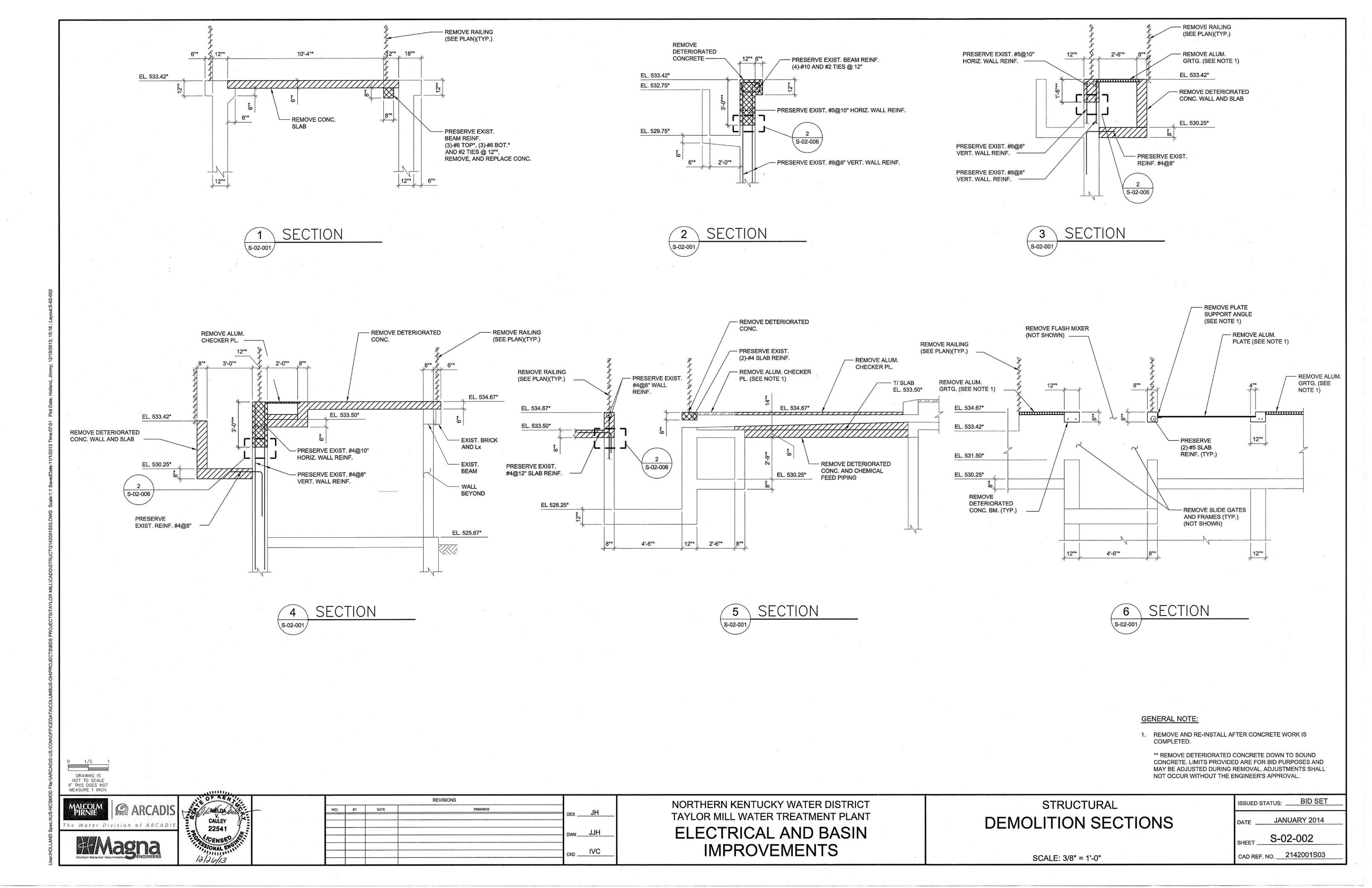
SCALE: N.T.S.

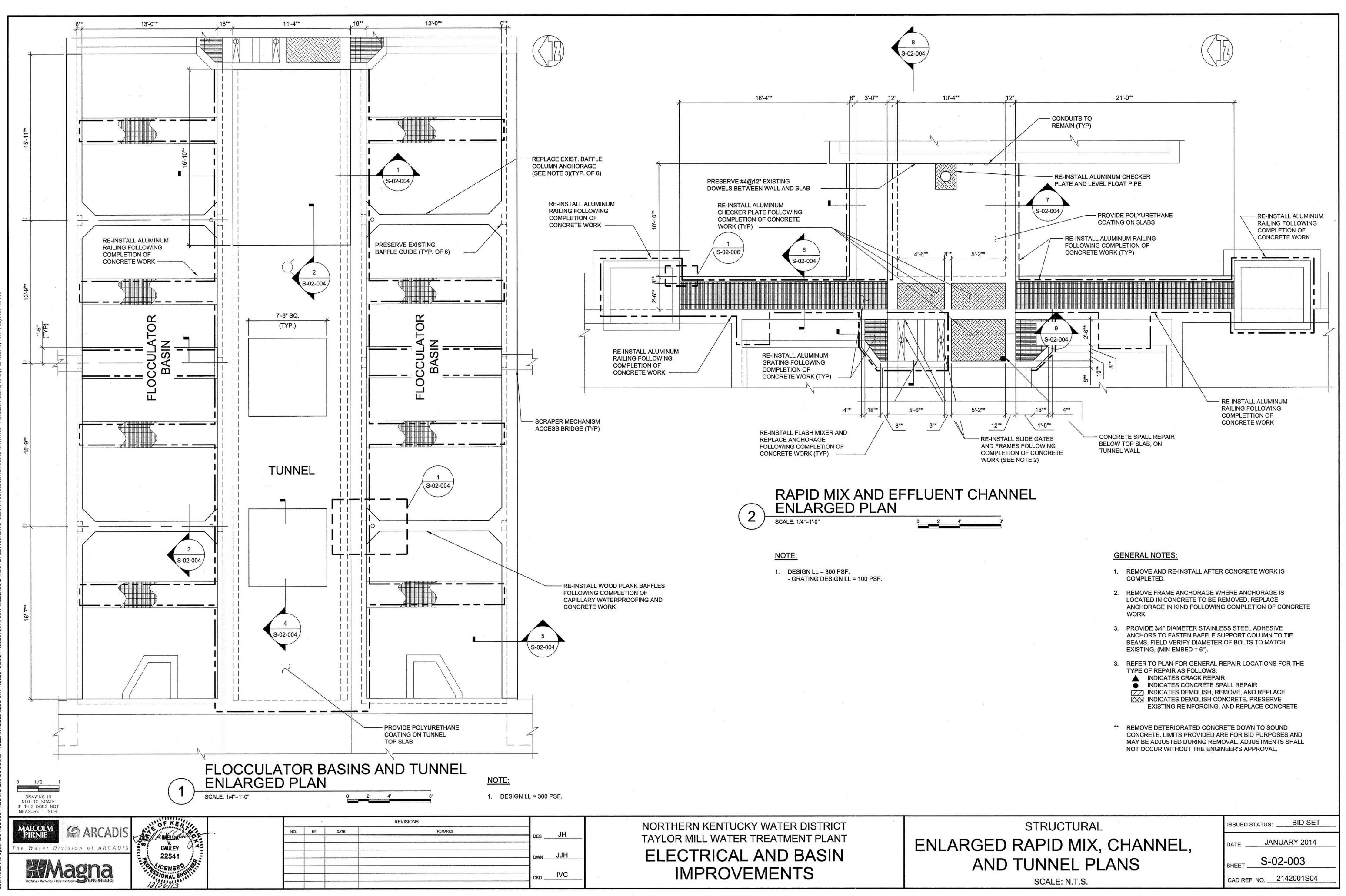


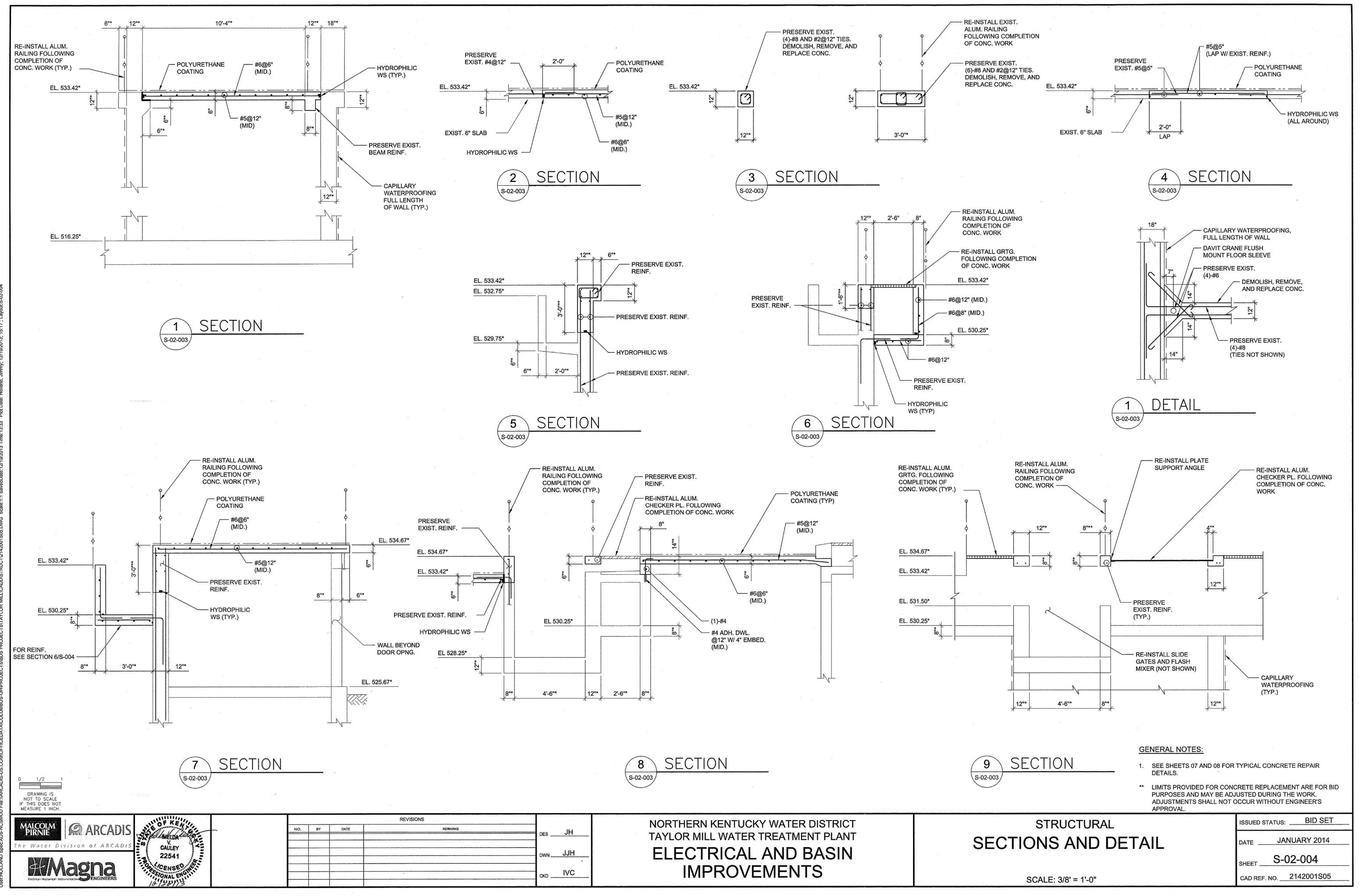
- 1. REMOVE AND RE-INSTALL AFTER CONCRETE WORK IS

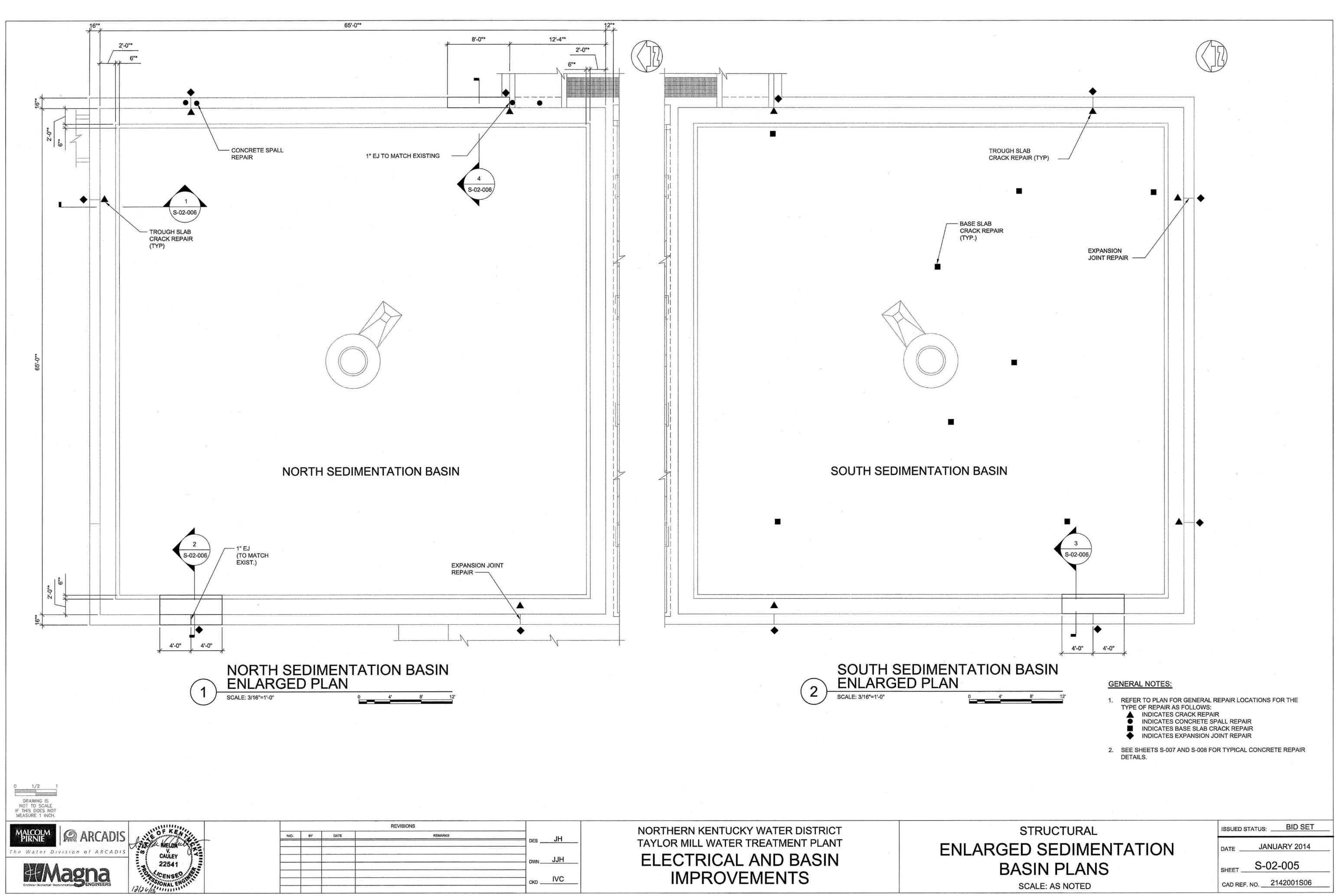
** REMOVE DETERIORATED CONCRETE DOWN TO SOUND CONCRETE. LIMITS PROVIDED ARE FOR BID PURPOSES AND MAY BE ADJUSTED FOR REMOVAL. ADJUSTMENTS SHALL NOT

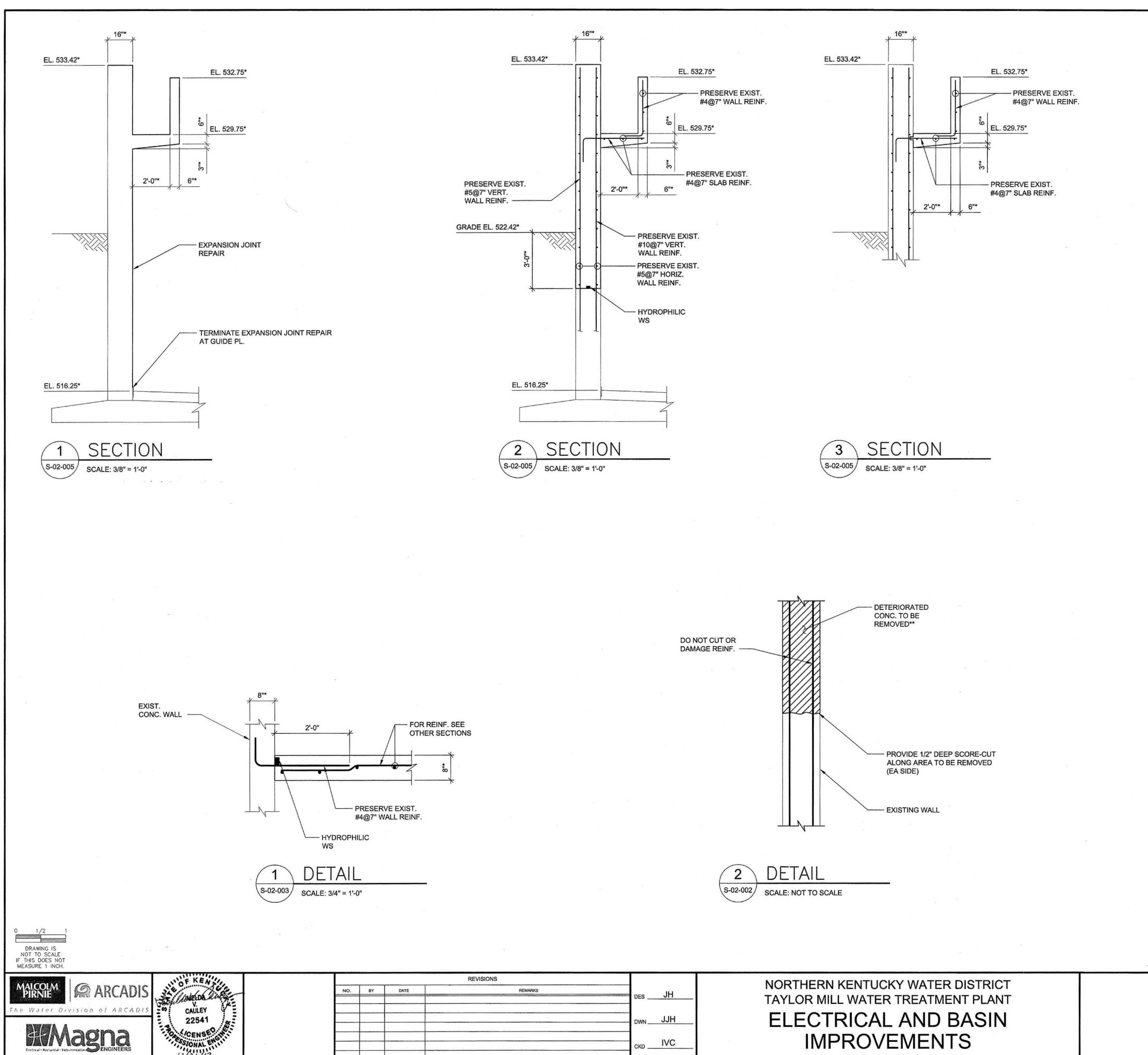
ISSUED STATUS: BID SET JANUARY 2014 S-02-001 CAD REF. NO. 2142001S02



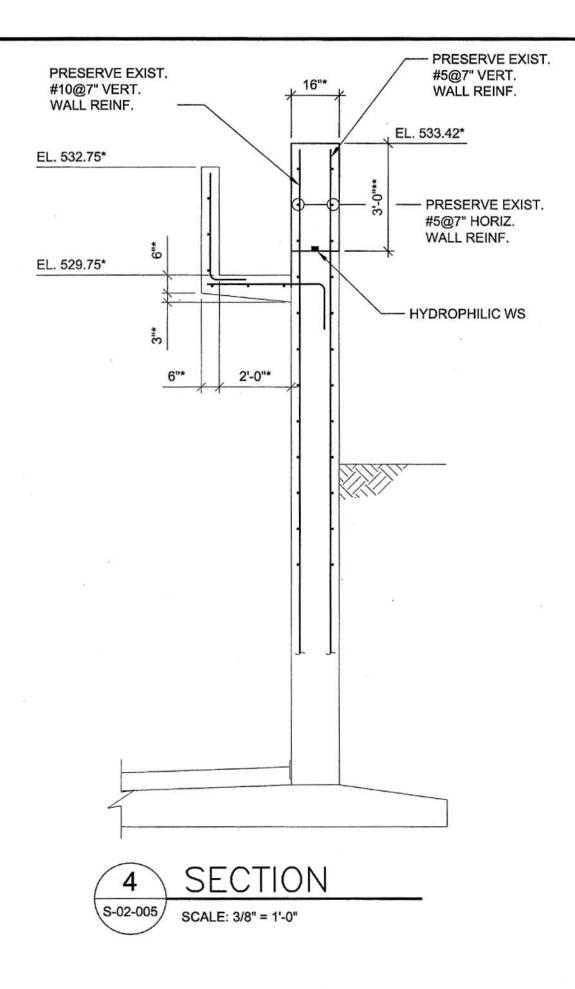








DWN	
CKD	IVC



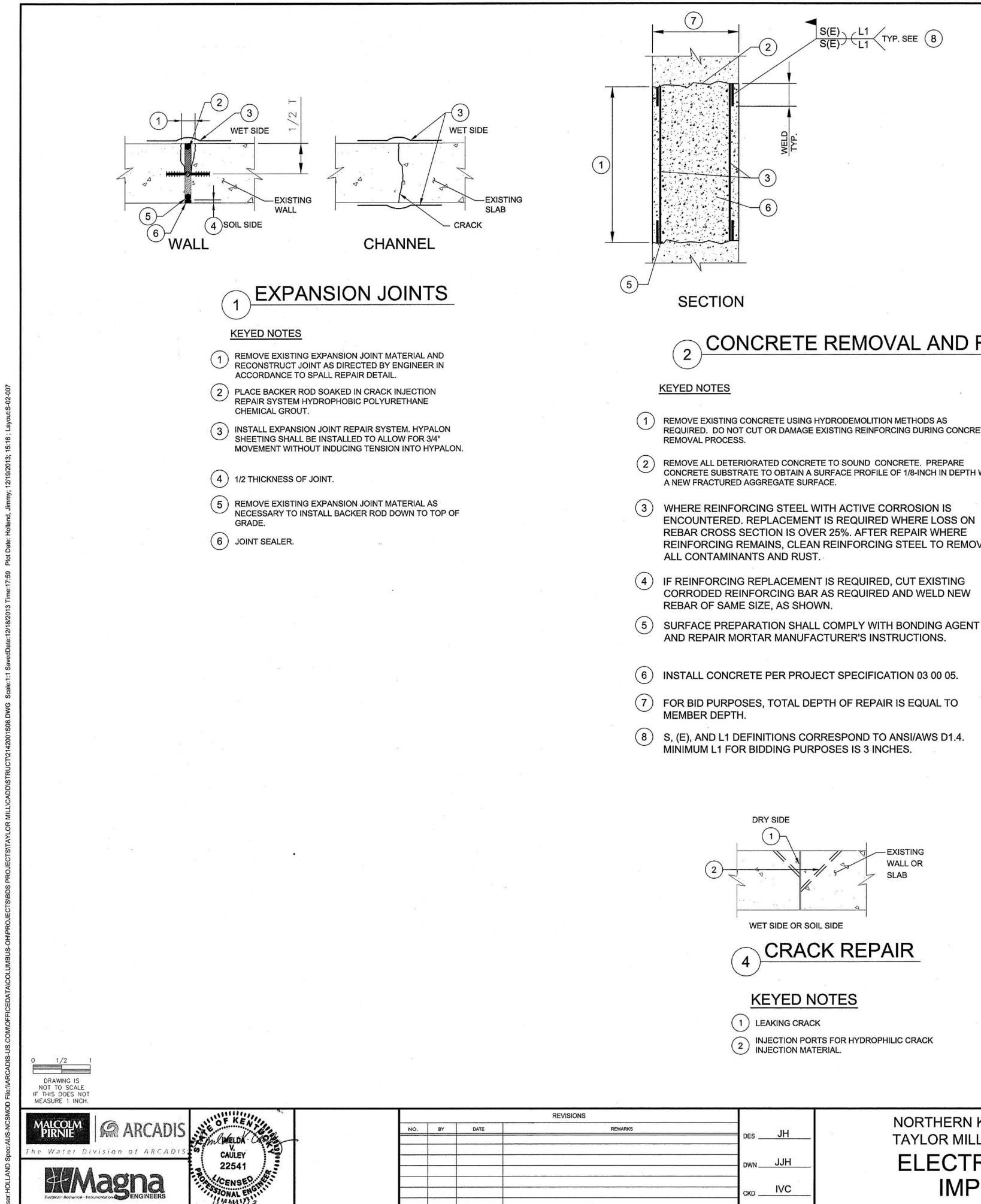
GENERAL NOTE:

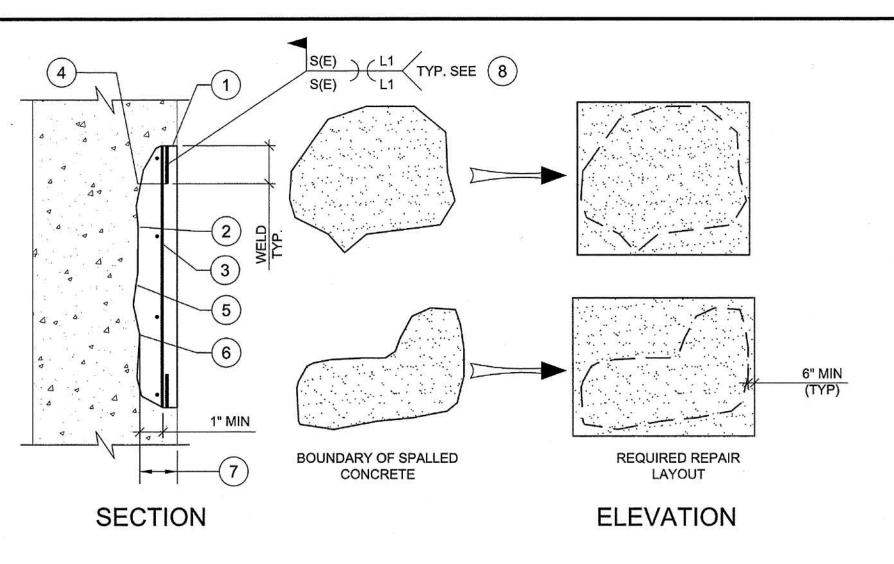
** LIMITS PROVIDED FOR CONCRETE REPLACEMENT ARE FOR BID PURPOSES AND MAY BE ADJUSTED DURING THE WORK. ADJUSTMENTS SHALL NOT OCCUR WITHOUT ENGINEER'S APPROVAL.

STRUCTURAL SECTIONS AND DETAILS

BID SET ISSUED STATUS: JANUARY 2014 DATE S-02-006 SHEET _ CAD REF. NO. 2142001S07

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





CONCRETE REMOVAL AND REPLACEMENT

- REMOVE EXISTING CONCRETE USING HYDRODEMOLITION METHODS AS REQUIRED. DO NOT CUT OR DAMAGE EXISTING REINFORCING DURING CONCRETE
- CONCRETE SUBSTRATE TO OBTAIN A SURFACE PROFILE OF 1/8-INCH IN DEPTH WITH
- WHERE REINFORCING STEEL WITH ACTIVE CORROSION IS ENCOUNTERED. REPLACEMENT IS REQUIRED WHERE LOSS ON **REBAR CROSS SECTION IS OVER 25%. AFTER REPAIR WHERE** REINFORCING REMAINS, CLEAN REINFORCING STEEL TO REMOVE
- IF REINFORCING REPLACEMENT IS REQUIRED, CUT EXISTING CORRODED REINFORCING BAR AS REQUIRED AND WELD NEW
- AND REPAIR MORTAR MANUFACTURER'S INSTRUCTIONS.
- (6) INSTALL CONCRETE PER PROJECT SPECIFICATION 03 00 05.

DES	JH
DWN	JJH
скр	IVC

NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ELECTRICAL AND BASIN IMPROVEMENTS



KEYED NOTES

(1)

(2)

(3)

(4)

(5)

SCORE-CUT PERIMETER OF REPAIR AREA AS GENERALLY SHOWN. DO NOT CUT REINFORCING UNLESS NECESSARY TO REMOVE ALL DETERIORATED CONCRETE.

REMOVE ALL DETERIORATED CONCRETE TO SOUND CONCRETE. CHIP CONCRETE SUBSTRATE TO OBTAIN A SURFACE PROFILE OF 1/8-INCH IN DEPTH WITH A NEW FRACTURED AGGREGATE SURFACE.

WHERE REINFORCING STEEL WITH ACTIVE CORROSION IS ENCOUNTERED. REPLACEMENT IS REQUIRED WHERE LOSS ON REBAR CROSS SECTION IS OVER 25%. AFTER REPAIR WHERE REINFORCING REMAINS, CLEAN REINFORCING STEEL TO REMOVE ALL CONTAMINANTS AND RUST. REMOVE CONCRETE TO A DEPTH OF 1-INCH MINIMUM BEHIND REINFORCING BAR AS SHOWN.

IF REINFORCING REPLACEMENT IS REQUIRED, CUT EXISTING CORRODED REINFORCING BAR AS REQUIRED AND WELD NEW REBAR OF SAME SIZE, AS SHOWN.

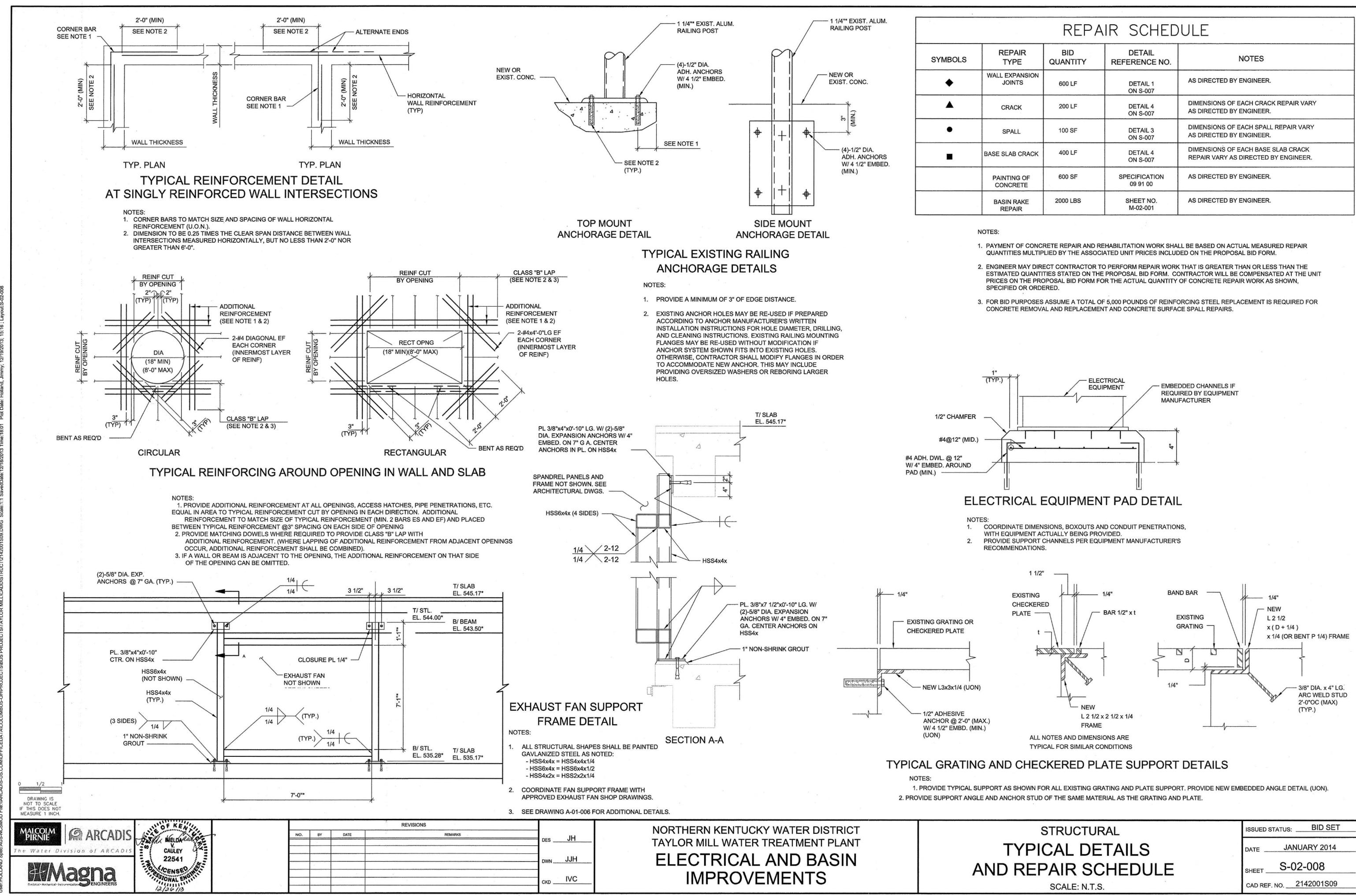
SURFACE PREPARATION SHALL COMPLY WITH REPAIR MORTAR MANUFACTURER'S INSTRUCTIONS.

6 INSTALL BONDING AGENT AND REPAIR MORTAR PER THE MANUFACTURER'S REQUIREMENTS.

7 FOR BID PURPOSES, ASSUME TOTAL DEPTH OF REPAIR IS 6 INCHES.

8 S, (E), AND L1 DEFINITIONS CORRESPOND TO ANSI/AWS D1.4. MINIMUM L1 FOR BIDDING PURPOSES IS 3 INCHES.

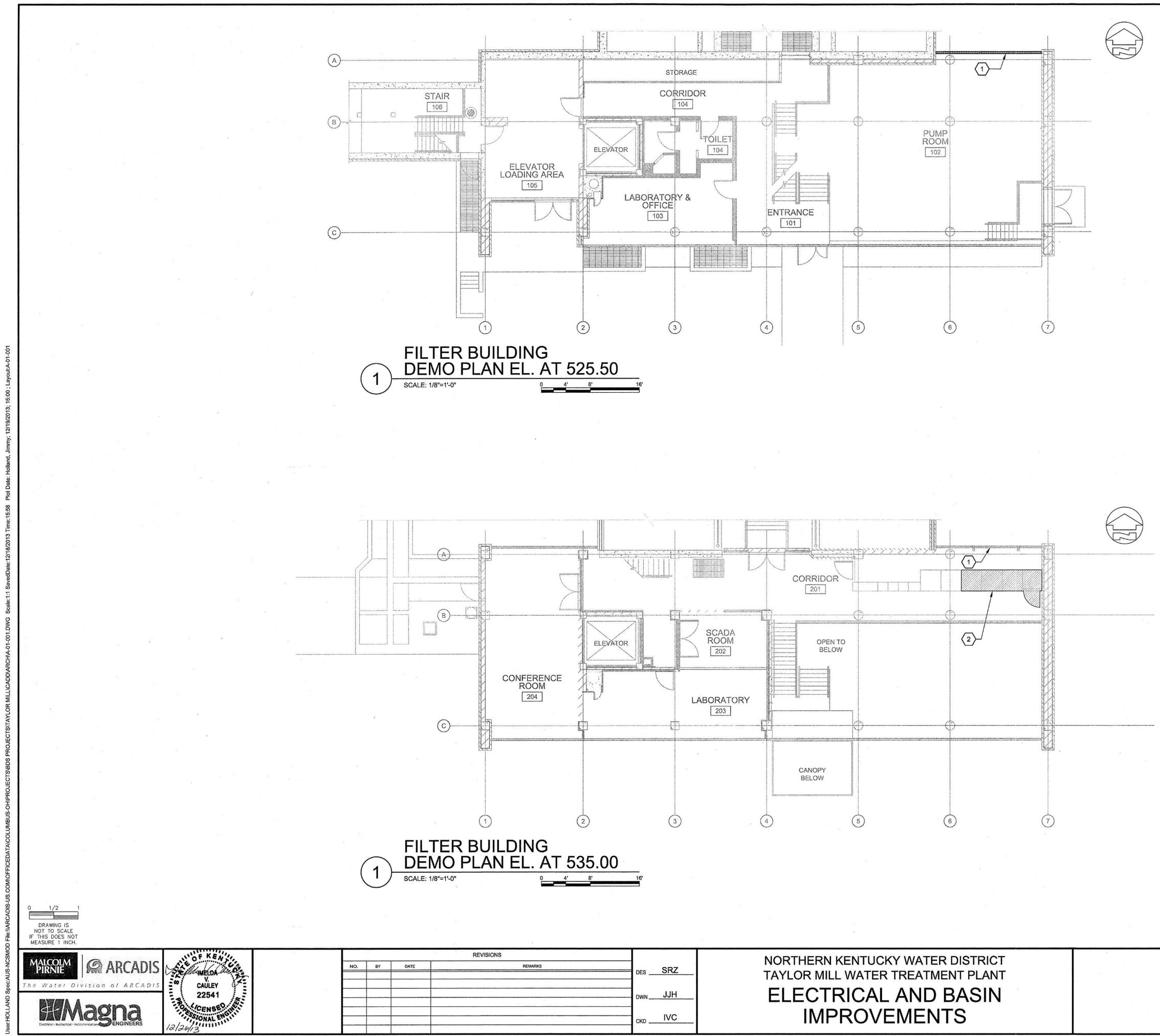
STRUCTURAL	ISSUED STATUS:BID SET
REPAIR DETAILS	DATEJANUARY 2014
	SHEET S-02-007
SCALE: N.T.S.	CAD REF. NO. 2142001S08



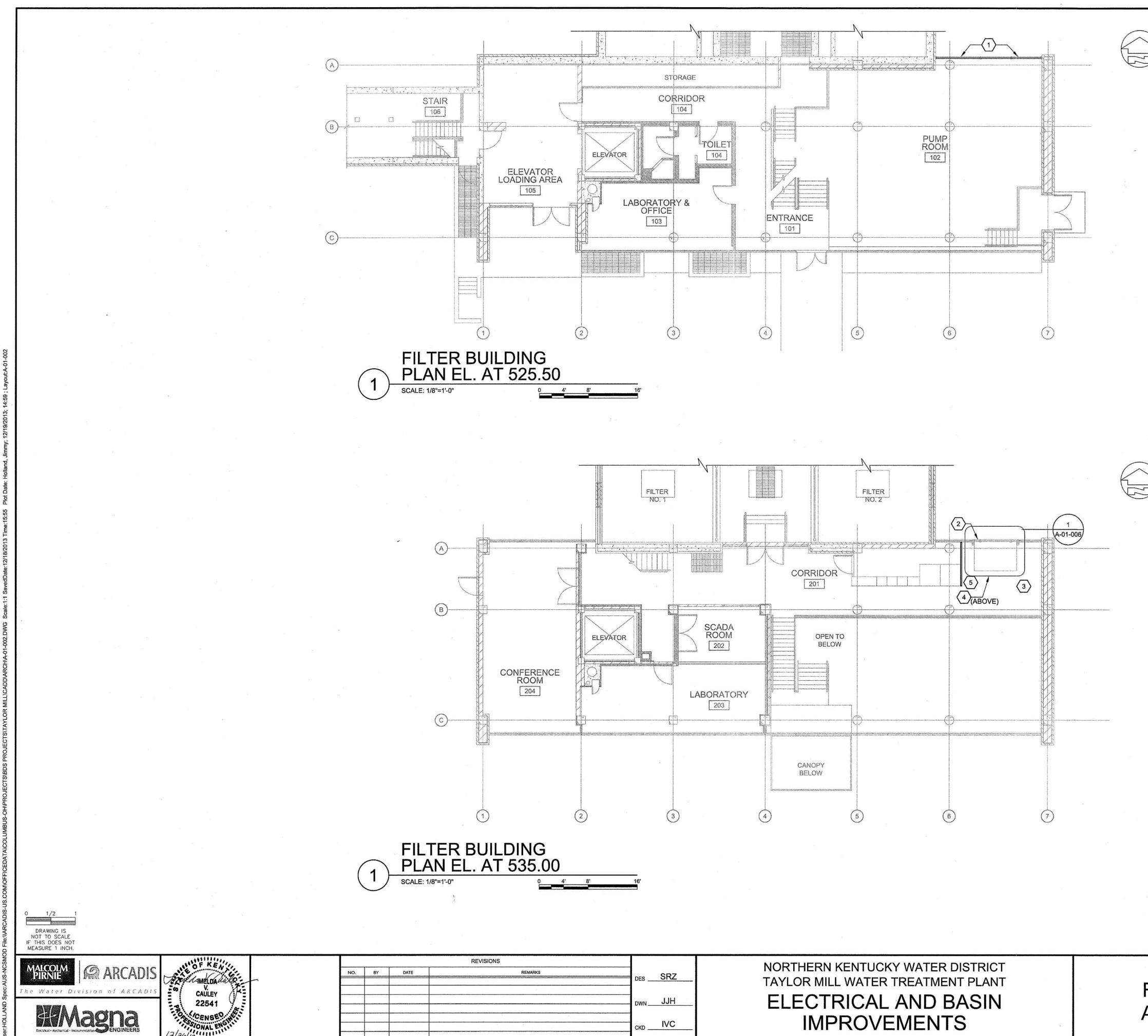
REPA	IR SCHED	ULE
BID QUANTITY	DETAIL REFERENCE NO.	NOTES
600 LF	DETAIL 1 ON S-007	AS DIRECTED BY ENGINEER.
200 LF	DETAIL 4 ON S-007	DIMENSIONS OF EACH CRACK REPAIR VARY AS DIRECTED BY ENGINEER.
100 SF	DETAIL 3 ON S-007	DIMENSIONS OF EACH SPALL REPAIR VARY AS DIRECTED BY ENGINEER.
400 LF	DETAIL 4 ON S-007	DIMENSIONS OF EACH BASE SLAB CRACK REPAIR VARY AS DIRECTED BY ENGINEER.
600 SF	SPECIFICATION 09 91 00	AS DIRECTED BY ENGINEER.
2000 LBS	SHEET NO. M-02-001	AS DIRECTED BY ENGINEER.
	BID QUANTITY 600 LF 200 LF 100 SF 400 LF 600 SF	QUANTITYREFERENCE NO.600 LFDETAIL 1 ON S-007200 LFDETAIL 4 ON S-007100 SFDETAIL 3 ON S-007400 LFDETAIL 4 ON S-007600 SFSPECIFICATION 09 91 002000 LBSSHEET NO.

TYPICAL DETAILS	DATE JANUARY 2014
REPAIR SCHEDULE	SHEET S-02-008
SCALE: N.T.S.	CAD REF. NO. 2142001S09

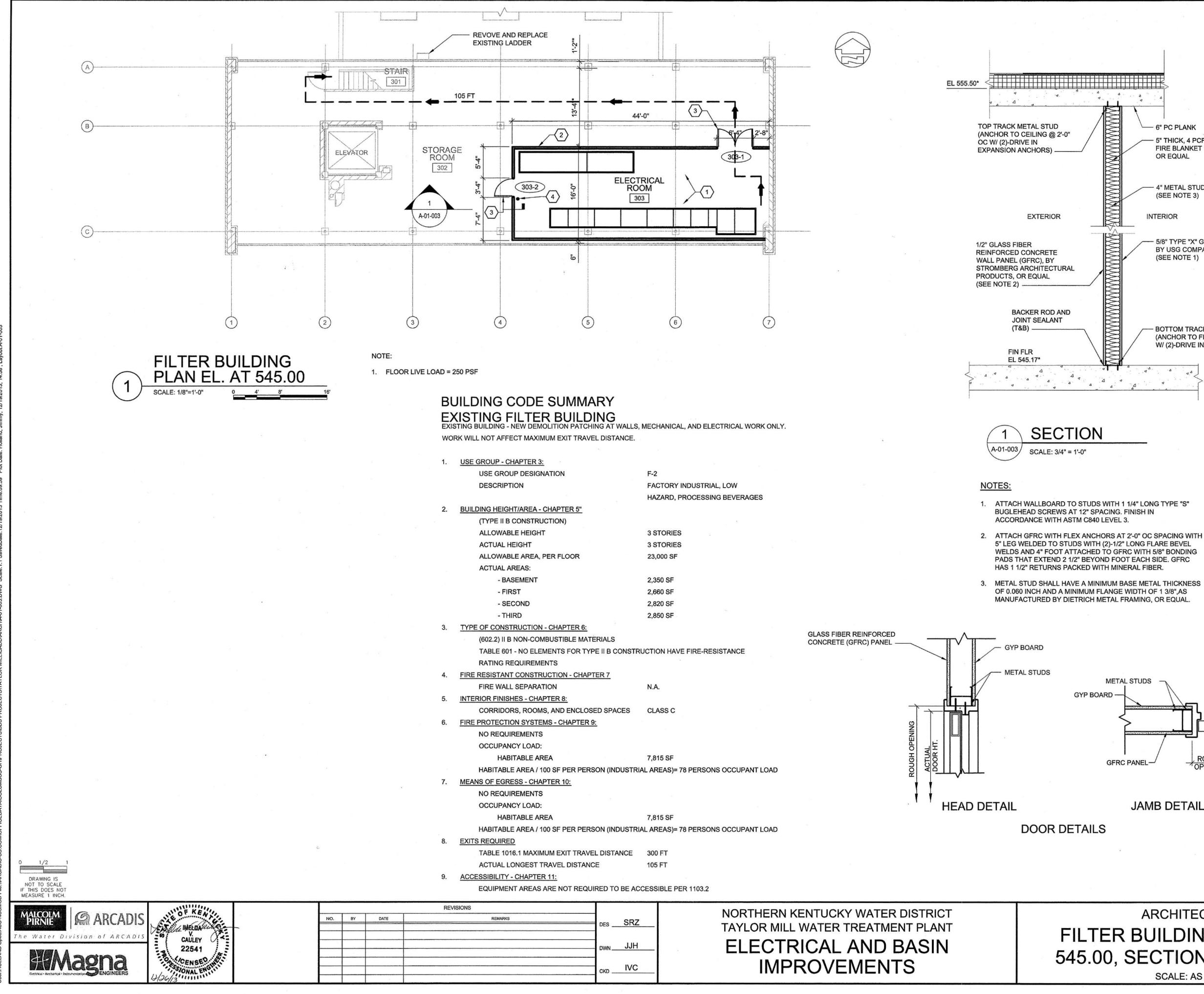
- Sugar



GENERAL NOTES: 1. CONTRACTOR SHALL PROTECT ALL EXISTING TO REMAIN. 2. PROVIDE TEMPORARY DUST BARRIERS AND WEATHER PROOF ENCLOSURES ACCEPTABLE TO THE OWNER. **KEYNOTES**: 1. REMOVE GLAZING AND SPANDREL PANELS FROM WINDOW WALL SYSTEM AS REQUIRED FOR INSTALLATION OF LOUVERS MECHANICAL LOUVERS. COORDINATE DEMOLITION WITH SHEET A-01-005. 2. REMOVE ELECTRICAL EQUIPMENT, SEE SHEET E-01-002. REMOVE EQUIPMENT SUPPORT RAILS FLUSH WITH EXISTING FLOOR. ISSUED STATUS: BID SET ARCHITECTURAL JANUARY 2014 FILTER BUILDING DATE A-01-001 DEMOLITION PLANS SHEET _ SCALE: 1/8" = 1'-0"

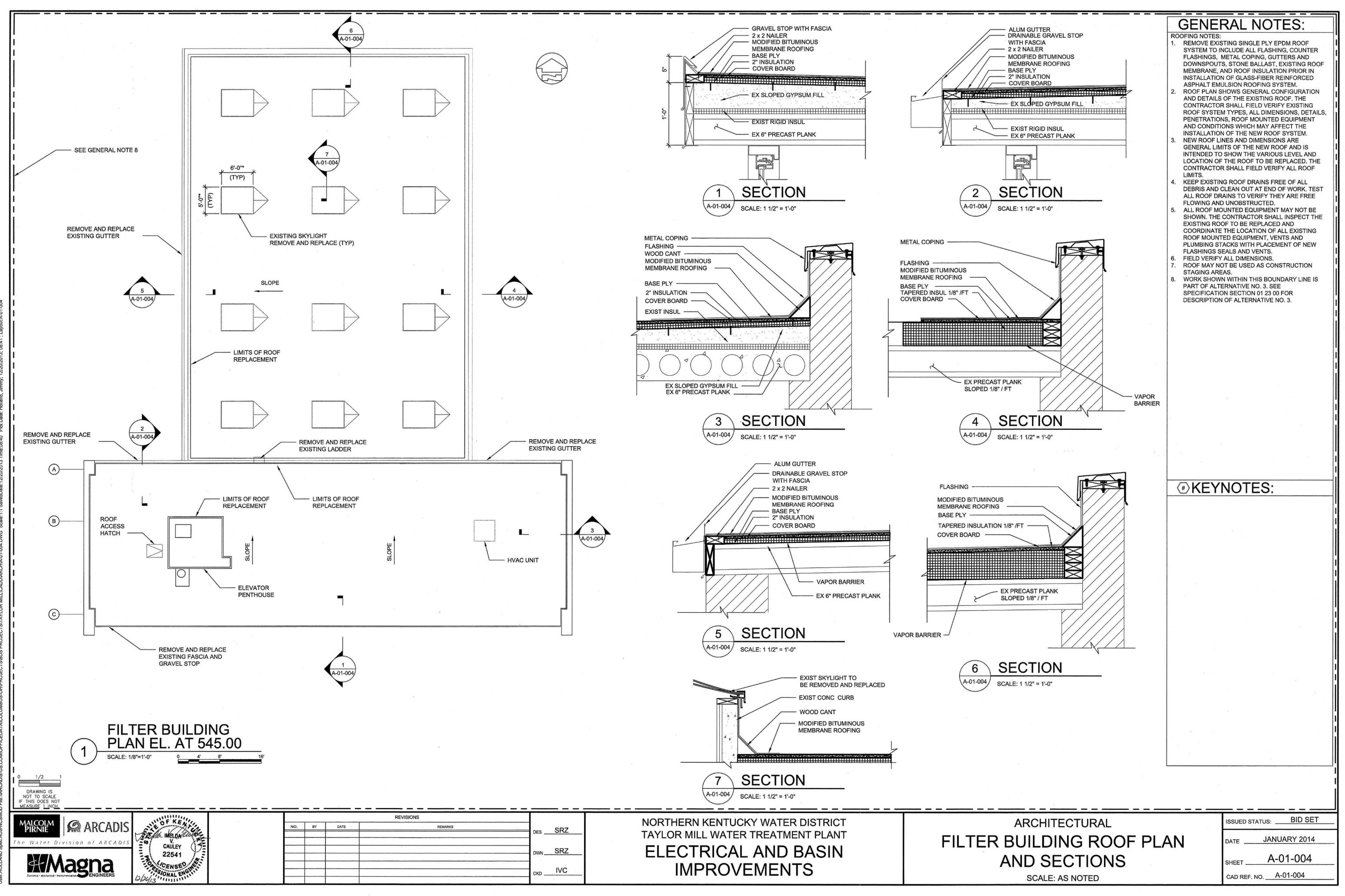


GENERAL NOTES: 1. CONTRACTOR SHALL PROTECT ALL EXISTING TO REMAIN. 2. PROVIDE TEMPORARY DUST BARRIERS AND WEATHER PROOF ENCLOSURES ACCEPTABLE TO THE OWNER. **KEYNOTES:** LOUVERS, SEE DRAWINGS A-01-005 AND A-01-006.
 HVAC EQUIPMENT - SEE "H" DRAWINGS. 3. INSTALL TERRAZZO FLOORING AT EXISTING CONCRETE SLAB TO MATCH EXISTING TERRAZZO FLOORING. APPROX 90 SF. 4. PROVIDE METAL PANEL CEILING TO MATCH EXISTING WHERE ELECTRICAL ENCLOSURE WAS REMOVED. APPROX 90 SF. 5. PROVIDE METAL WALL PANEL TO MATCH EXISTING. ISSUED STATUS: BID SET ARCHITECTURAL FILTER BUILDING PLANS JANUARY 2014 DATE A-01-002 AT EL. 525.50 AND 535.00 SHEET _ CAD REF. NO. ______ A-01-002 SCALE: 1/8" = 1'-0"

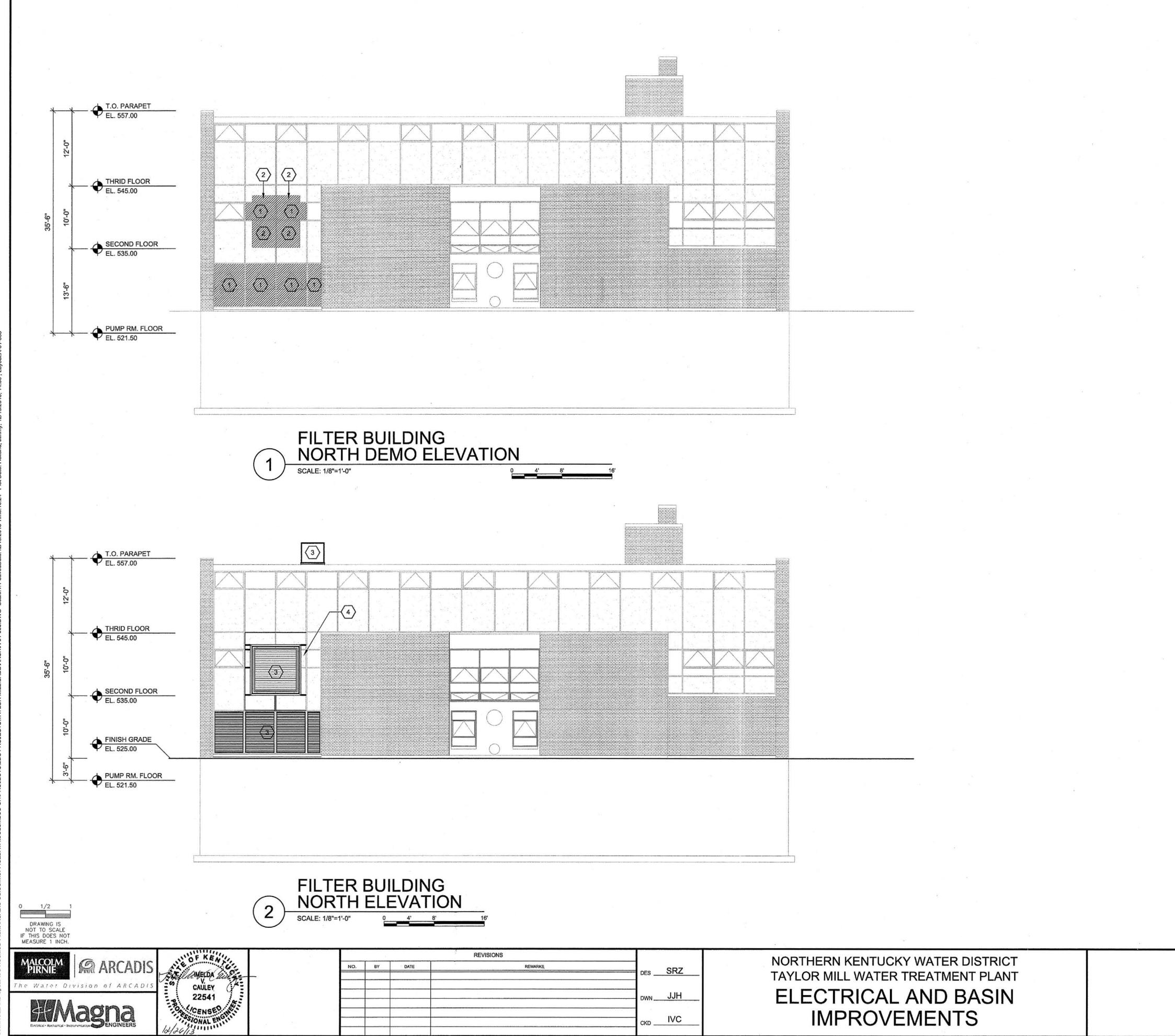


GENERAL NOTES: 1. CONTRACTOR SHALL PROTECT ALL EXISTING TO REMAIN. 2. PROVIDE TEMPORARY DUST BARRIERS AND WEATHER PROOF ENCLOSURES ACCEPTABLE TO THE OWNER. 3. PATCH AND REPAIR ALL FINISHES AT M/E PENETRATIONS. 4. FIELD VERIFY ALL DIMENSIONS. 4 M - 6" PC PLANK - 5" THICK, 4 PCF SOUND ATTENUATION FIRE BLANKET BY USG INTERIORS, OR EQUAL - 4" METAL STUDS @ 16" OC (SEE NOTE 3) INTERIOR - 5/8" TYPE "X" GYPSUM WALLBOARD BY USG COMPANY, OR EQUAL (SEE NOTE 1) BOTTOM TRACK METAL STUD (ANCHOR TO FLOOR @ 2'-0" OC **KEYNOTES:** W/ (2)-DRIVE IN EXPANSION ANCHORS) 1. SEE ELECTRICAL DRAWINGS FOR EQUIPMENT 2. PARTITION WALL - 4 . 4 3. 1 HOUR FIRE RESISTANT HOLLOW METAL DOOR. IBC TABLE 720.1 (2), ITEM 15.1.11. 4. FIRE EXTINGUISHER - SENTINEL MODEL 10 BY J.L INDUSTRIES OR EQUAL. SECURELY FASTEN TO STRUCTURE PER MANUFACTURER'S INSTRUCTIONS. METAL STUDS ROUGH GFRC PANEL-OPENING JAMB DETAIL ISSUED STATUS: ____BID SET ARCHITECTURAL FILTER BUILDING PLAN AT EL **JANUARY 2014** DATE A-01-003 545.00, SECTION AND DETAILS SHEET .

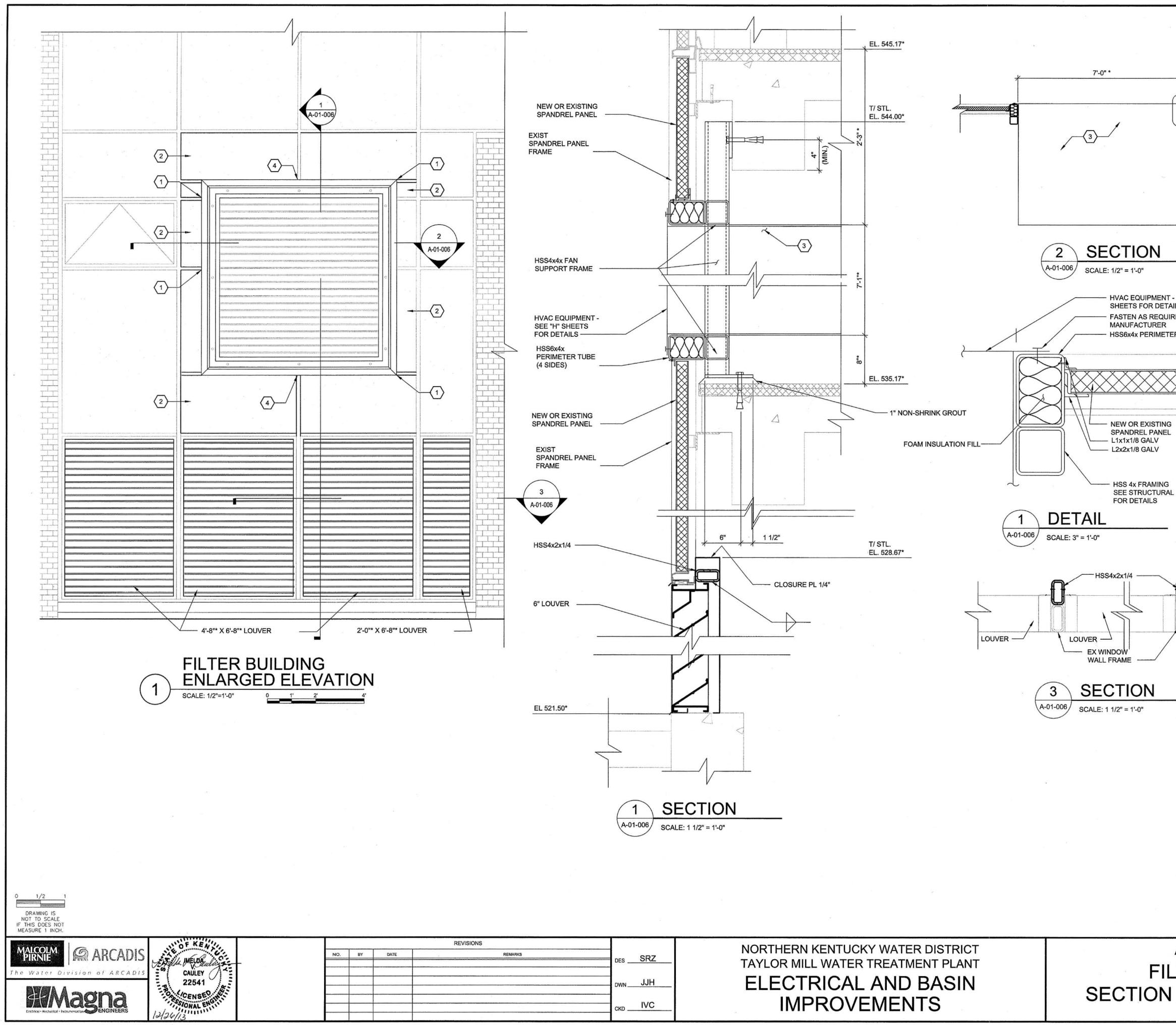
SCALE: AS NOTED



pec:AUS-NCSMOD File:\\ARCADIS-US.COM\OFFICEDATA\COLUMBUS-OH\\PROJECTS\BDS PROJECTS\TAYLOR MILL\CADD\ARCHA-01-004.DWG Scale:1:1 SavedDate:12/20/2013 Time:08:40 Plot Date: h

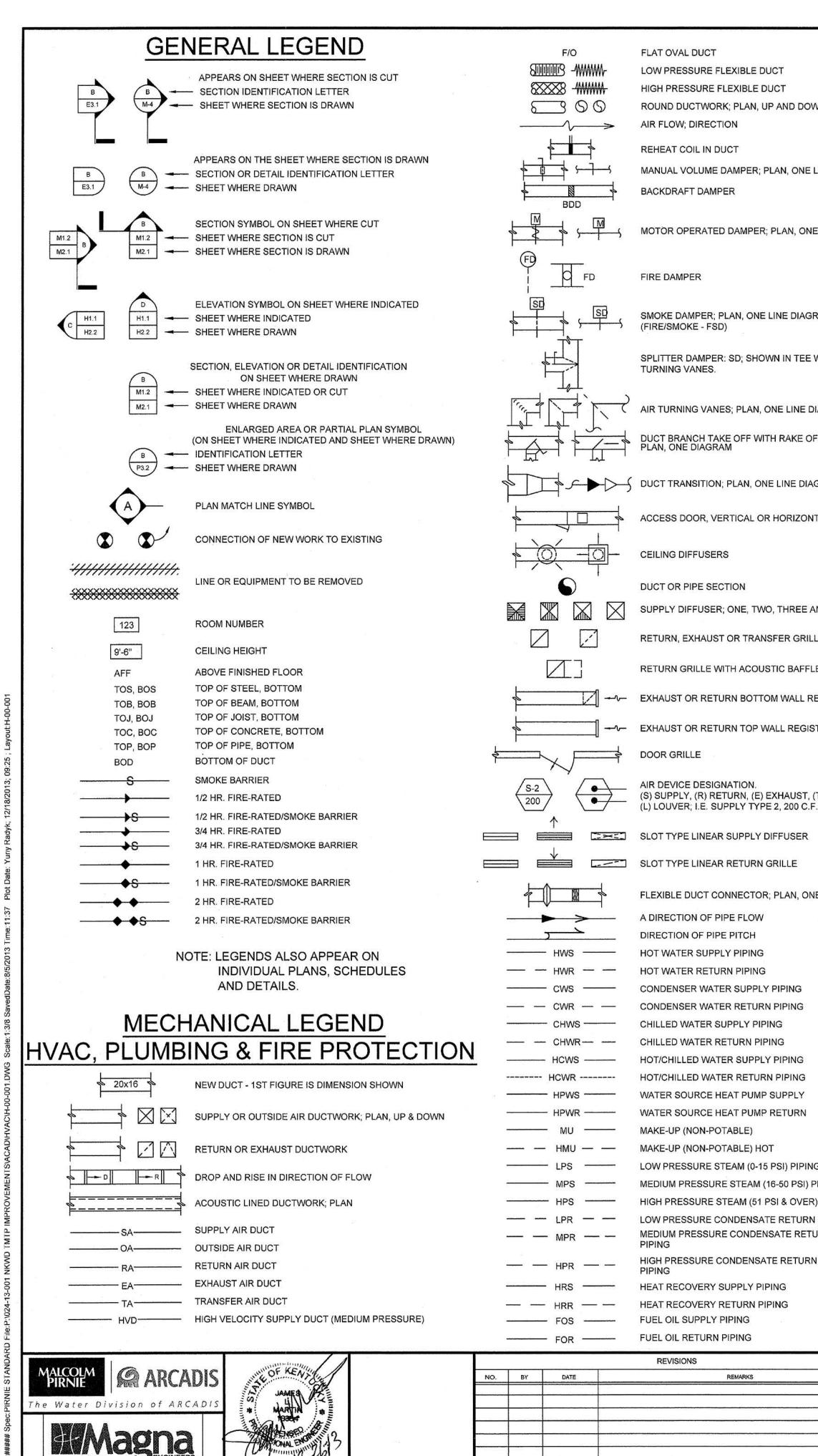


GENERAL NOTES: 1. CONTRACTOR SHALL PROTECT ALL EXISTING TO REMAIN. 2. PROVIDE TEMPORARY DUST BARRIERS AND WEATHER PROOF ENCLOSURES ACCEPTABLE TO THE OWNER. 3. PATCH AND REPAIR ALL FINISHES AT M/E PENETRATIONS. 4. FIELD VERIFY ALL DIMENSIONS. **KEYNOTES**: 1. REMOVE SPANDREL PANEL, GLASS, OPERABLE WINDOW SASH REQUIRED FOR INSTALLATION OF HVAC EQUIPMENT AND LOUVERS 2. SAW CUT SPANDREL PANEL FOR INSTALLATION OF HVAC EQUIPMENT AND LOUVERS. 3. NEW HVAC EQUIPMENT - SEE "H" DRAWINGS. 4. RE-USE WHERE POSSIBLE OR PROVIDE NEW SPANDREL PANEL TO MATCH EXISTING. ISSUED STATUS: BID SET ARCHITECTURAL FILTER BUILDING **JANUARY 2014** DATE A-01-005 ELEVATIONS SHEET _ SCALE: 1/8" = 1'-0"



THERN KENTUCKY WATER DISTRICT OR MILL WATER TREATMENT PLANT ECTRICAL AND BASIN IMPROVEMENTS	SECTIO
2	R MILL WATER TREATMENT PLANT

GENERAL NOTES: 1. FIELD VERIFY ALL DIMENSIONS. - FAN SUPPORT FRAME 1 A-01-006 - HVAC EQUIPMENT - SEE "H" SHEETS FOR DETAILS - FASTEN AS REQUIRED BY - HSS6x4x PERIMETER TUBE **KEYNOTES**: 1. FASTEN CURTAIN WALL MEMBERS TO FRAMING. 2. RE-USE WHERE POSSIBLE OR PROVIDE NEW SPANDREL PANEL TO MATCH EXISTING. 3. HVAC EQUIPMENT - SEE "H" SHEETS FOR DETAILS. 4. FIELD WELD EXISTING MULLION TO NEW FAN SUPPORT FRAME. 2-12 2-12 (TYP) ISSUED STATUS: _____BID SET ARCHITECTURAL FILTER BUILDING JANUARY 2014 DATE A-01-006 ON AND DETAILS SHEET SHEET _ CAD REF. NO. 2142001A-01-006 SCALE: AS SHOWN



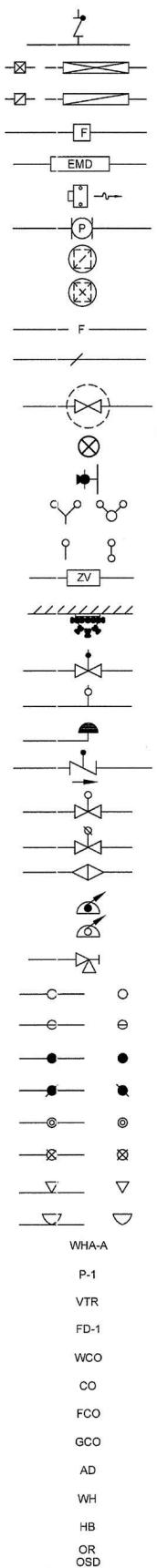
LOW PRESSURE FLEXIBLE DUCT

 desJLM	
скоJLM	

REMARKS

NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ELECTRICAL AND BASIN IMPROVEMENTS

	FOV	FUEL OIL VENT PIPING	0	90° ELBOW TURNED UP
	RS	REFRIGERANT SUCTION PIPING	(90° ELBOW TURNED DOWN
	RL	REFRIGERANT LIQUID PIPING EQUIPMENT OR SYSTEM DRAIN PIPING	(¥	45° ELBOW
WN	E	EXPANSION LINE		
	R	SAFETY OR RELIEF VALVE DISCHARGE PIPING	╧	TEE OR SIDE CONNECTION
	CD	CONDENSATE DRAIN PIPING		TEE OUTLET UP
LINE DIAGRAM	G S	NATURAL GAS PIPING EXISTING SANITARY SEWER PIPING (SITE)		
	SS	EXISTING STORM SEWER PIPING (SITE)	+ 0+	TEE OUTLET DOWN
E LINE DIAGRAM	S	SANITARY SEWER PIPING (SITE)		CROSS
	SS	STORM SEWER PIPING (SITE)		CROSS
		SOIL & WASTE PIPING DWV VENT PIPING	TOP BOT.	UNCONNECTED CROSSING PIPES
	RL	ROOF LEADER PIPING		UNCONNECTED CROSSING FIFES
RAM	FD	FOUNDATION DRAIN PIPING		RISE OR DROP IN PIPE
	AW	ACID WASTE ACID VENT	O LPS	RISER ONLY, SERVICE (LPS) SHOWN
WITH				12. 12. 13.
	DCW	DOMESTIC COLD WATER PIPING	Ţ	BOTTOM CONNECTION TO LINE
DIAGRAM	DHW	DOMESTIC HOT WATER (140 F) PIPING -	φ	TOP CONNECTION TO LINE
		DOMESTIC RECIRCULATING HOT WATER PIPING		
FF DAMPER;	DRW 105	DOMESTIC HOT WATER (105 F) PIPING	Ø	RISER IN SLEEVE
CDAM	<i>———</i> /- <i>—</i> /-	HOT WATER PIPING (FOR EXAMPLE) HEAT TRACED		UNION
AGRAM	W	WATER SERVICE PIPING (EXTERIOR)	——————————————————————————————————————	STRUCTURAL PIPE ANCHOR
ITAL	0			BUILDING ENTRANCE PIPE ANCHOR
	AC	ACETYLENE VENT PIPING		PIPE GUIDE
	VAC	VACUUM PIPING		
	A	COMPRESSED AIR PIPING		EXPANSION JOINT
AND FOUR WAY		VALVE (IN GENERAL - SEE SPECS) GATE VALVES (GV)	→ -&	THRUST BLOCK
LE		GLOBE VALVES	TT	
		CHECK VALVE		WALL SLEEVE
LE		BALANCING VALVE (WITH READ OUT)		CONCENTRIC REDUCER
EGISTER OR GRILLE		BALANCING COCK ONLY (NON-SHUTOFF)	N	ECCENTRIC REDUCER
STER OR GRILLE	^{II} + ^T ₂	HOSE CONNECTION, BOILER DRAIN		VENT THROUGH ROOF, PLAN & RISER
	<u> </u>	BALL VALVES (BV)		THROUGH ROOF
11		PLUG COCKS, BALANCING COCKS		THROUGH FLOOR
(T) TRANSFER, F.M.		SILENT CHECK VALVE	71	
		BUTTERFLY VALVES (BFV)	X	THROUGH WALL
	- \$-\$-	CONTROL VALVE; TWO WAY, THREE WAY	\bigcirc	THERMOMETERS
	¥	SOLENOID OR QUICK-OPENING VALVE	l	THERMOMETER WELL
NE LINE DIAGRAM			(P) (
		MOTOR OPERATED VALVE		PRESSURE GAUGES
		FLOW MEASURING DEVICE SELF REGULATING	(\bigcirc)	
		FLOW CONTROL VALVE	(P/T)	VACUUM AND COMPOUND GAUGES
		RELIEF VALVE; PLAN, ELEVATION	<u> </u>	PRESSURE/TEMPERATURE TEST PLUG
		PRESSURE REDUCING VALVE (PRV)	FS	FLOW SWITCH
		TRI-FUNCTION VALVE (TDV)	H	ORIFICE FLOW METER
		STRAINER; STRAINER WITH BLOW DOWN.	M→	METER: WATER, CONDENSATE OR GAS
		FLOAT VALVE	(F)	POT OR SHOT FEEDER
		FLEXIBLE CONNECTOR	(T) (T)	THERMOSTAT, OR TEMP. CONTROLLER
		BACKFLOW PREVENTER, REDUCED PRESSURE	ि [9]	PRESSURE CONTROLLER
IG	7	(STRAINER NOT SHOWN) (BFP - RPZ)		
PIPING R) PIPING	Ţ	n		
N (0-15 PSI) PIPING		DOUBLE CK. VALVE ASSEMBLY (DCA)		CONDUCTIVITY CONTROLLER
URN (16-50 PSI)		REDUCING BUSHING		MANUAL AIR VENT
N (51 PSI & OVER)		COUPLING, JOINT CAP		AUTOMATIC AIR VENT
		PLUG	AAE	
		90° ELBOW		AUTOMATIC AIR ELIMINATOR
				25



VACUUM BREAKER

FLOAT AND THERMOSTATIC TRAP, TRAP SET

INVERTED BUCKET TRAP, TRAP SET

FLOAT, STEAM OR AIR TRAP

MAIN OR END OF MAIN DRIP TRAP SET

HORIZONTAL UNIT HEATER

PUMP

ROOF EXHAUST HOOD, EXHAUST FAN

ROOF INTAKE HOOD, SUPPLY FAN

FIRE PROTECTION

PIPE HANGER

VALVE IN PIT

FIRE RISER

FIRE HYDRANT (FH)

FIRE DEPT. CONNECTION (FDC) (SIAMESE: WALL, POST) FIRE DEPT. CONNECTION (FDC) (SINGLE: WALL, POST) ZONE CONTROL VALVE SET (SEE DETAILS)

TEST VALVE HEADER

POST INDICATOR VALVE (PIV)

YARD HYDRANT (YH)

WATER MOTOR ALARM (GONG) ALARM CHECK VALVE

DRY PIPE VALVE

DRY PIPE VALVE W/ EXHAUSTERS PREACTION SYSTEM VALVE

WET STANDPIPE HOSE STATION DRY STANDPIPE HOSE STATION

ANGLE HOSE (HV) OR DRAIN VALVE

SPRINKLER HEAD: UPRIGHT OR GENERAL

SPRINKLER HEAD: PENDANT

SPRINKLER HEAD: PENDANT ON DROP NIPPLE

SPRINKLER HEAD: DRY PENDANT TYPE

SPRINKLER HEAD: UPRIGHT ON SPRIG

SPRINKLER HEAD: WITH GUARD

SPRINKLER HEAD: SIDEWALL

SPRINKLER HEAD: OUTSIDE

WATER HAMMER ARRESTOR: PDI SIZE A

PLUMBING FIXTURE I.D. NUMBER

VENT THRU ROOF; PLAN & RISER

FLOOR DRAIN I.D. NUMBER; PLAN & RISER

WALL CLEAN OUT CLEAN OUT FLOOR CLEAN OUT GRADE CLEAN OUT

ACCESS DOOR

WALL HYDRANT

HOSE BIBB

OPEN RECEPTACLE

M1.4 A P2.1 P2.2 A A W

RISER SYMBOL ON PLAN SHEET ------ SHEET WHERE WASTE & WATER RISERS APPEAR

RISER SYMBOL ON PLAN SHEET SHEET WHERE WASTE RISER APPEARS ----- SHEET WHERE WATER RISER APPEARS

> RISER SYMBOLS FOR WASTE (SANITARY) AND WATER ON RISER SHEET

HVAC GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS

ISSUED STATUS: _____BID_SET JANUARY 2014 DATE H-00-001 SHEET

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

SCALE: NOT TO SCALE