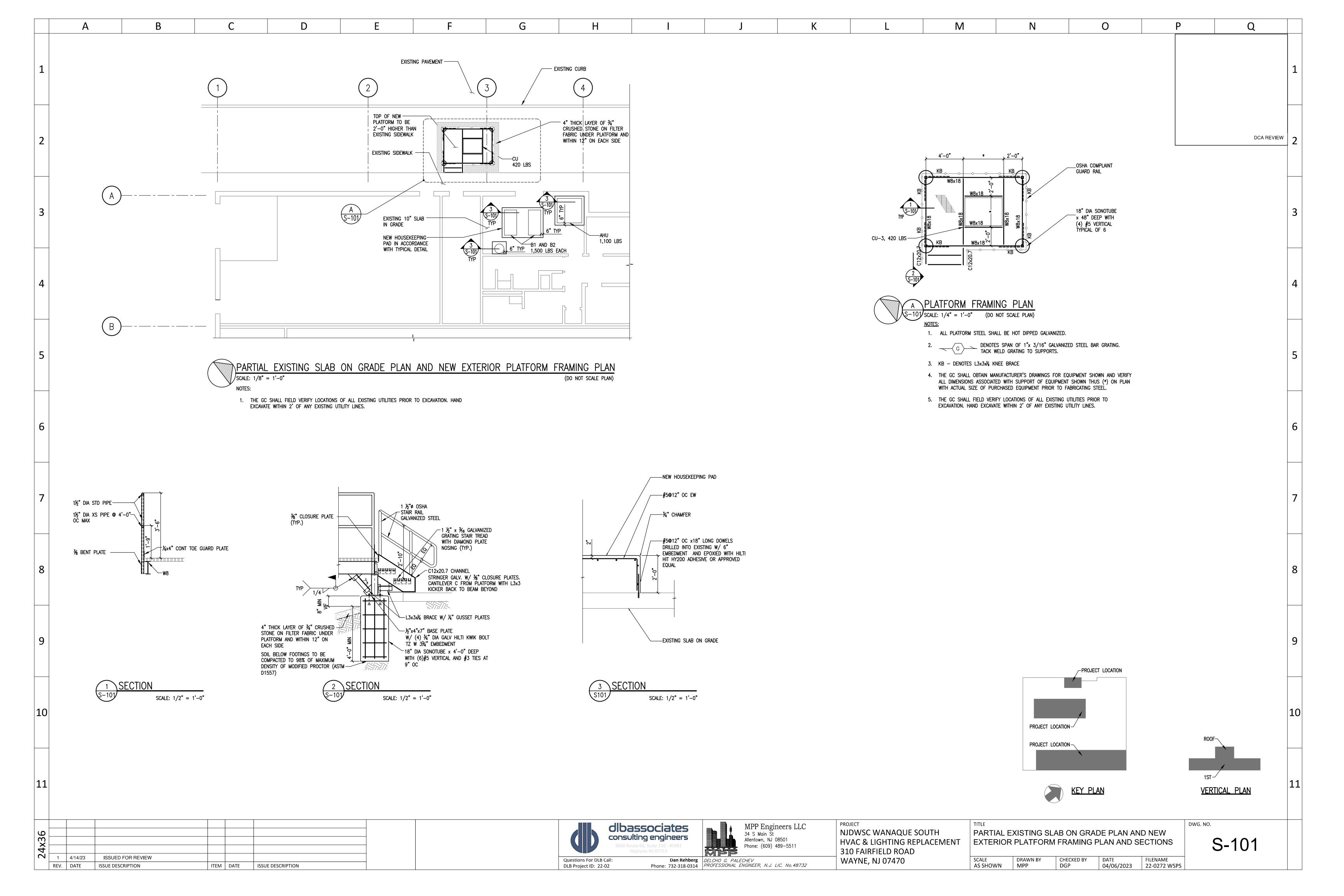
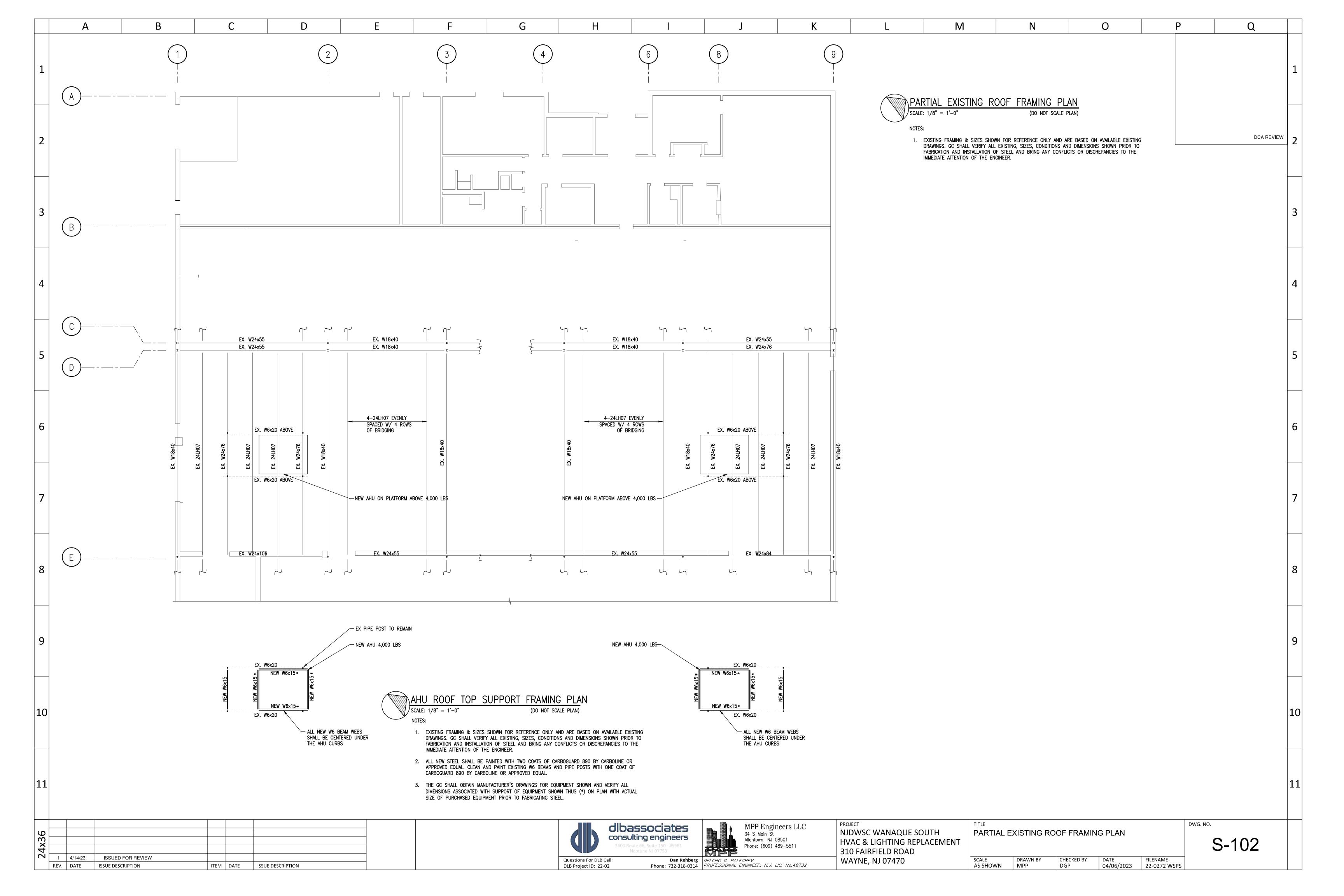
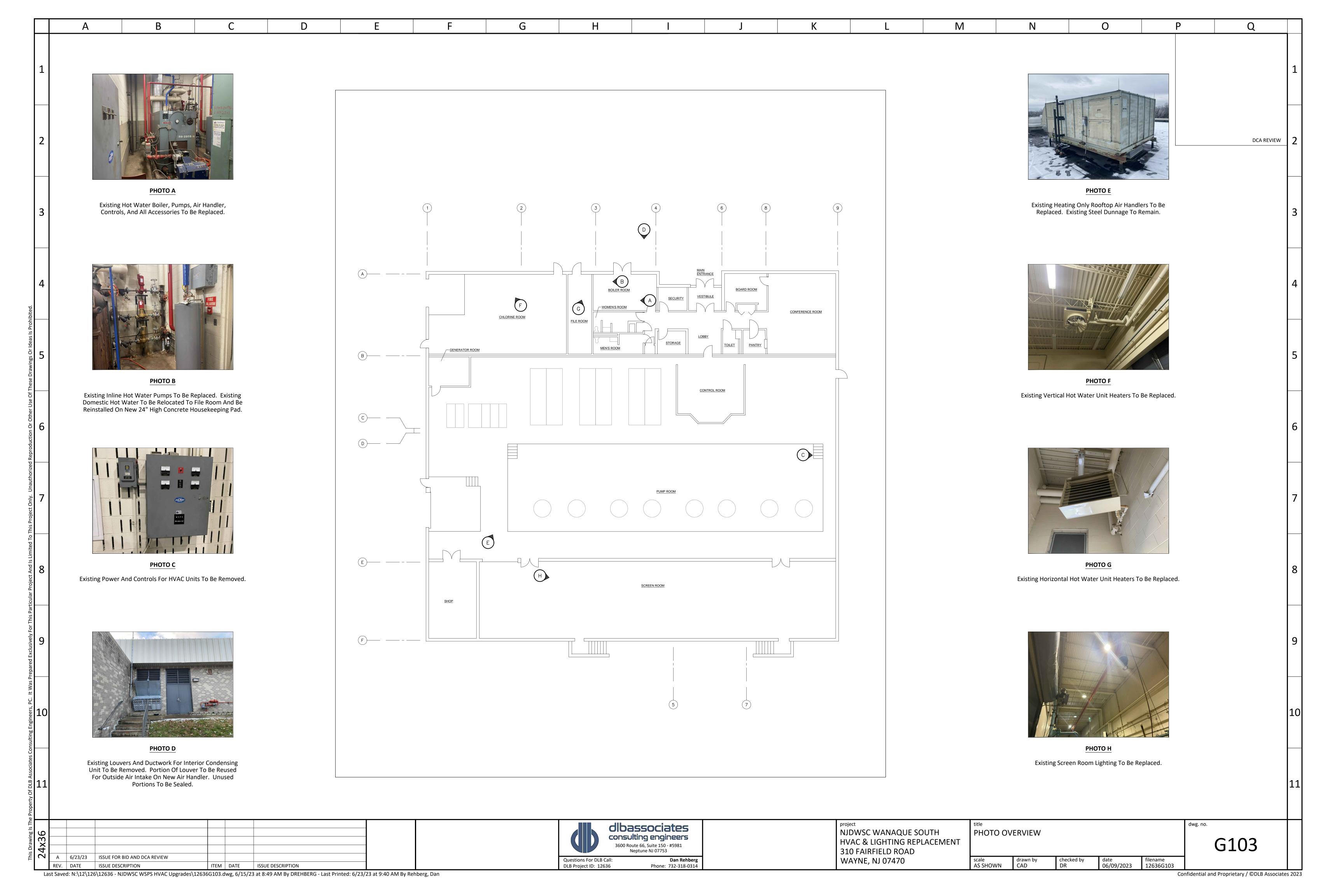
	Λ R C D	E F G H	I J K L M	N O P Q
	PROJECT INTRODUCTION	APPLICABLE CODES AND REFERENCES	PROJECT GENERAL NOTES	
<u>,</u>	The Project Consists Of The Following At The NJDWSC Wanaque South Pump Station Located At 310 Fairfield Road In	<u>General</u>	General	
-	<ul> <li>Wayne, NJ:</li> <li>Replacement Of The Existing Hot Water Boiler And Three Pumps Located In The Mechanical Room. Two New Hot Water Boilers Along With Four Pumps Will Be Installed In Their Place. The Existing Heating Hot Water And</li> </ul>	Entire Installation Shall Comply With All Local And State Codes And Other Authorities Having Jurisdiction.	<ol> <li>All General Notes Are To Be Read And Adhered To By Each Contractor. The Notes Are Loosely Categorized By Trade, But This Does Not Limit The Resposibility Of The Contractor To Any Single Category.</li> </ol>	
4	<ul> <li>Natural Gas Distribution Piping Will Remain And Be Reused And Modified As Required And Noted On Drawings.</li> <li>Replacement of The Two Existing Heating Only Rooftop Air Handlers Serving The Pump Room. Two New Air</li> </ul>	Applicable Codes And References (State Of New Jersey)	2. Entire Installation Shall Comply With All Local And State Codes And Other Authorities Having Jurisdiction.	
	Handlers With Hot Water Coils And Local Thermostats Will Be Installed In Their Place.	<ol> <li>Building Code: International Building Code (IBC) - 2021 Edition</li> <li>Plumbing Code: National Standard Plumbing Code (NSPC) - 2021 Edition</li> </ol>	<ol> <li>Proper Fire Protection Measures, Satisfactory To The Local Fire Department, Shall Be Taken When Welding Or Cutting With Torches Or Electric Arc. Contractor To Provide Open Flame Permit If Required. A Hot Permit Must Be Obtained From The Owner.</li> </ol>	
	<ul> <li>Replacement Of The Existing DX Cooling, Hot Water Heating Air Handler Located In The Mechanical Room. One New Air Handler With DX Cooling And Hot Water Heating And One New Exterior, Grade Mounted Condensing Unit Will Be Installed In Their Place.</li> </ul>	3. Mechanical Code: International Mechanical Code (IMC) - 2021 Edition	4. All Drawings Are Conceptual And Contractor Shall Provide Construction Drawings For Approval By Owner Prior	DCA REVIEW
	Replacement Of Nine Existing Hot Water Unit Heaters Located Throughout The Building.	4. Electrical Code: National Electrical Code (NEC) - 2020 Edition	To Installation.  Coordination	
	Replacement Of Ten Existing Roof Mounted Exhaust Fans	5. Energy Code: ASHRAE 90.1 - 2019  6. Fire / Life Sefety Code: New Jersey Uniform Construction Code (UCC)	Contractor To Visit Job Site And Verify Existing Field Conditions Prior To Submission Of Bid.	
	<ul> <li>Replacement Of Screen Room Lighting And Installation Of New Controls</li> <li>Relocation Of Existing Water Heater And Associated Piping</li> </ul>	<ul> <li>6. Fire / Life Safety Code: New Jersey Uniform Construction Code (UCC)</li> <li>7. Fire Protection: NFPA Sections 13 &amp; 14 - Latest Adopted Version, NFPA 25, And NFPA 72</li> </ul>	2. Contractor Shall Secure And Pay For All Required Permits And Shall Arrange All Required Inspections. This Includes But Is Not Limited To Stack Permits And Low NOx Testing.	No. Drawing Title Issues
	This Is A Single Prime Contract. The Awarded Contractor Will Be Responsible For Hiring The Services Of Licensed	8. Fuel Gas Code: International Fuel Gas Code (IFGC) - 2021 Edition	3. Contractor Shall Coordinate His Work With The Existing Field Conditions.	l l se l
	Subcontractors As Part Of The Project. This Shall Include All Necessary Labor And Materials For The Subcontractors Scope.	9. ASHRAE Handbooks	Installation	
	The Proposal Shall Include All Work Related To Modifications To The Existing Piping And Installation Of New Piping And Electrical Connections. All Questions And Clarifications Shall Be Submitted To The Owner And Addressed Before	Acronym Key	<ol> <li>Contractor Shall Be Responsible For All Cutting And Patching Of Walls, Ceilings, Roofs And Floors Required As A Result Of His Work.</li> </ol>	Se Fan Control of the
╁	The Bids Are Finalized.	ASHRAE: American Society Of Heating, Refrigerating And Air Conditioning Engineers	<ol> <li>Piping And Duct Layouts Are Schematic Diagrams And Are Intended To Show General Arrangement, Size And</li> </ol>	
-	SCOPE OF WORK OVERVIEW	IESNA: Illuminating Engineering Society Of North America  NFPA: National Fire Protection Association	Capacity And Do Not Indicate Which Pipe Or Duct Is Above Or Below The Other. All Offsets Are Not Necessarily Shown. Contractor Shall Arrange And Coordinate The Work, Furnish Necessary Offsets, Valves, Vents And Fittings To Avoid Conflict With Other Mechanical And Electrical Services And Structural And Architectural	
	The Following Is A Brief Scope Of The Work For This Project (Not Intended To Be All Inclusive):	SMACNA: Sheet Metal & Air Conditioning Contractors' National Association	Elements Without Additional Cost To The Owner. If Areas Of Conflict Are Encountered, The Construction  Manager Shall Be Notified And Contractors Shall Submit Recommendations For Approval Before Work Has	eview mbers
	<ol> <li>The Existing Cast Iron Sectional Boiler, Expansion Tanks, Pumps, Piping, Air Handlers, Ductwork, And Accessories Will Be Removed As Noted And Disposed Of By The Contractor.</li> </ol>	CEICNAIC DECICAL CRITERIA	Begun.  3. All Support Systems (Supports, Hangers, Anchors, Guides, Bracing, Fasteners, Welds, Etc.) For Equipment And	DDCA R
$\dashv$	2. Contractor Shall Be Responsible For Application Of All Local Building Department Permits, Registration Of Boiler With Appropriate State Agency, And Any Required Testing. Owner Will Obtain DCA Plan Approval And	SEISMIC DESIGN CRITERIA	Systems Installed Or Revised As Part Of This Contract Shall Be Designed, Selected And Installed By The Contractor To Resist All Seismic, Wind And Gravity Loads. The Codes Listed Under The "Design Criteria" Section	d and W Uni:
	Contractor To Obtain Construction Permits. All Permit Applications To Be Reviewed By Owner Before Submittal To DCA.	Seismic Data  Manned Spectral Acceleration - Short Periods (SMS): 0.411g	Of These Documents Have Specific Requirements Concerning The Application Of These Loads As Well As Other Design Requirements. Under Certain Conditions, The Applicable Codes Require These Loads, Or A Combination Of These Loads, Be Considered As "Coincidental". The Contractor Shall Also Be Responsible For Confirming That	ed for Bi 3/23 ected Fi ected H
	3. Boilers And All Supplemental Equipment Shall Be Started Up By Approved Vendor Personnel And Commissioned To Confirm Proper Performance And Operating Conditions.	Mapped Spectral Acceleration - Short Periods (SMS):  Mapped Spectral Acceleration - 1 Second Period (SM1):  Soil Site Classification:  0.411g  0.170g  D	The Component Of The Building Structure Where These Support Systems Are Attached Is Able To Resist The Design Loads Transferred To This Building Component. The Contractor Is To Provide Seismic Design Drawings	
	4. All Coloring And Labeling Of New Piping Shall Match Existing.	Seismic Occupancy Category: IV Seismic Design Category: C	<ul> <li>And Details From A Seismic Engineer. The Drawings Are To Be Signed And Sealed Per Specifications.</li> <li>4. All Penetrations Of Floors (Whether Or Not Fire Resistance Rated) And All Penetrations Of Fire Rated Walls And</li> </ul>	GENERAL INFORMATION FOR ALL TRADES
$\downarrow$	5. Perform Boil-Out And Cleaning Procedures According To Manufacturer's Written Instructions. Boiler Shall Be Washed And Flushed Until Water Leaving Boiler Is Clear. Contractor Shall Dispose Of All Water And Chemicals Used During Flushing In An Approved Manner. No Chemicals Shall Be Dumped Into Floor Drains.	Seismic Requirements	Floors Shall Be Provided With A Through-Penetration Protection System (Firestopping). Each Through-Penetration Protection System Shall Be Tested In Accordance With ASTM E814 And Be Listed For The	G101 General Information Sheet - 1  G102 General Information Sheet - 2  A
	<ul><li>Used During Flushing In An Approved Manner. No Chemicals Shall Be Dumped Into Floor Drains.</li><li>Existing Floor Drains Shall Be Scoped Out And Cleaned After Construction Is Complete.</li></ul>	1. This Building Is Classified As Seismic Design Category C Per IBC 2021. Mechanical And Electrical Components And Systems In Buildings That Are Assigned To Seismic Design Category C In Seismic Occupancy Catagory IV Structures	Type Of Floor Or Wall Assembly Penetrated And The Type Of Installation. Installers Must Be Trained And Certified.	G103 Photo Overview A
	7. Floors To Be Finished Where Pads Are Demolished.	Are Not Exempt From Seismic Requirements Per ASCE-7 13.1.4.	<ol> <li>Contractor Shall Provide All Necessary Miscellaneous Steel For The Support Of All Equipment, Piping, And Conduit Suspended From Slab, Steel, Wall, Trusswork, And Roof Openings.</li> </ol>	
	8. Existing Chimney / Flue Shall Be Removed And Replaced With New Category IV Breeching For Condensing Boiler Application. Existing Roof Penetration Shall Be Resealed To Accommodate New Breeching.	2. Provide Seismic Bracing Of Mechanical And Electrical Components And Systems.	6. "Furnish And Install" Or "Provide" Means To Supply, Erect, Install And Connect Up To Complete For Readiness For Regular Operation, The Particular Work Referred To.	STRUCTURAL S-001 General Structural And Construction Notes A
	9. All Valves Shall Have A Position Indicator.		7. No Imposed Loads Shall Be Placed On Any New Or Existing Equipment.	Partial Existing Slab On Grade Plan And New
	10. Replace Screen Room Lighting. New Motorized Lowering System Shall Be Provided To Facilitate Maintenance.	DOCUMENT ORGANIZATION	MECHANICAL / ELECTRICAL COORDINATION	S-101 Exterior Platform Framing Plan  S-102 Partial Existing Roof Framing Plan  A
	11. No Hazardous Materials Were Identified In The Project Areas By The Owner And Abatement Is Not Included In This Scope.	<u>Drawing Organization</u>	<ol> <li>Power Wiring To Mechanical Equipment, Motor Controllers And Control Panels Shall Be Provided By The Electrical Contractor Who Will Be Hired And Work As A Subcontractor To The Mechanical Contractor.</li> </ol>	3 102 Tartial Existing Noor Tarming Figure
	12. All Construction Phasing Shall Be Coordinated With The Owner Prior To The Start Of The Project.  13. Contractor Shall Drain. Clean. Passivate. And Refill All Demostic And Heating Water Bining.	The Primary Organization And Order Of The Project Drawing Set Is	2. Control Wiring Shall Be Provided By The Contractor As Part Of This Project.	PLUMBING
	<ul><li>13. Contractor Shall Drain, Clean, Passivate, And Refill All Domestic And Heating Water Piping.</li><li>14. Provide Air Vents At All High Points And Valved Drains In All Low Points Of Hydronic Systems.</li></ul>	Determined By The Trade. The Preface Letter(s) Of The Drawing Name Indicates The Trade.  1. General Sheets (G Series)	<ol> <li>Motor Controllers, Motor Starters And Disconnects Shall Be Furnished And Installed As Part Of This Project.</li> <li>Disconnect Switches Shall Be Heavy Duty Type With Lockable Handle. Disconnects For All Electrically Driven</li> </ol>	P101 Boiler Room Demolition Plan A P102 Boiler Room New Work Plan A
	15. Refer To Technical Specification Section 230130.51 For Details On Optional Duct Cleaning. See Note 3 On M101 For Additional Information.	2. Mechanical (M Series) 3. Electrical (E Series)	HVAC Equipment Shall Be Furnished And Installed By The Contractor. One Manufacturer Shall Be Used Throughout The Project. Acceptable Manufacturers Are: Square D, General Electric, Siemens And Westinghouse.	Tage Boilet Room New Work Hair
		<u>Drawing Sequence</u>	5. Starters Shall Be NEMA Combination Magnetic Motor Starters Sized Per Motor HP, With Integral Red Run Pilot	MECHANICAL  M101 Building Overview Demolition Plan  A
		<ol> <li>Within Each Trade, Drawings Start With Overview "Big Picture"</li> <li>Information, Then Plan Views, Followed By All Other Pertinent Information. Where Effective, Supplemental</li> </ol>	Light And H-O-A Switch. Coordinate Motor Starter Type And Features With The Requirements Of The Mechanical Equipment And The Control System. Provide Overload, Under Voltage And Phase Loss Protection In All Starters. Starters For Motors 50 HP And Larger Shall Be Reduced Voltage Autotransformer Type. One	
		Information Is Included Directly On The Plan View Drawings To Improve The Reader's Understanding.  Miscellaneous	Manufacturer Shall Be Used Throughout The Project. Acceptable Manufacturers Are: Toshiba Or Approved Equal.	M103 Roof New Work Plan
1	SPECIAL EMPHASIS, CONCERNS, & LIMITATIONS	1. The Terms 'Sheet', 'Plan', And 'Drawing' Are Used Interchangeably.	General	M104 Boiler Room Demolition Plan A
	Communication	<ol> <li>For Items That Are Plans, Details, And Other Graphic Items, Titles Are At The Bottom Of The Item Described. For Items That Are Predominately Text Such As Schedules, Titles Are At The Top Of The Item Described.</li> </ol>	<ol> <li>Contractor Shall Ensure That All Mechanical Devices Will Be Installed In A Location Which Affords Accessibility For Maintenance And Repair And Shall Be Approved By Owner Prior To Installation. Coordinate Installation</li> </ol>	M201 Details - 1 A
	<ol> <li>The Engineer And Owner Shall Be Notified Immediately Upon Discovery Of A Problem Or Conflict. Contractor Shall Promptly Identify One Or More Proposed Solutions But Shall Not Proceed Until So Authorized.</li> </ol>	3. Shading Of An Area Often Is Used To Emphasize An Area To The Reader. Some Of The Possible Purposes Of This Emphasis Can Be:	Among All Trades To Avoid Interferences, And Locate Equipment To Provide Clearances Which Exceed Those Recommended By The Equipment Manufacturer. Prior To Project Completion, Representatives Of DLB	M202 Details - 2
	2. All Required Shutdowns Must Be Coordinated With The Owner And Limited To A Minimum In Order For The	A. Identify Major Pieces Of Equipment	Associates Will Review Each Installation And Will Direct Changes Whenever Access Or Serviceability Is, In Their Opinion, Unacceptable.	M203 Schedules A B C  M500 Controls Details - 1  A
1	Owner To Maintain Their Services Throughout The Day.	B. Defining A Topics Boundary Without Conflicting With Other Linework		M501 Controls Details - 2 A
	Construction  1. Submittals (Shop Drawings) Shall Be Provided For Each Riese Of Burchased Equipment. Ensure Theroughness	C. Help To Emphasize The Existence Of A Part Plan Of The Area		ELECTRICA:
	<ol> <li>Submittals (Shop Drawings) Shall Be Provided For Each Piece Of Purchased Equipment. Ensure Thoroughness And Accuracy Of The Submittals. The Contractor Shall Provide A Stamp On The Shop Drawings Stating That They Conform To The Specifications.</li> </ol>	D. Differentiate Line Work In Congested Areas  How Notes Are Used		ELECTRICAL  E101 Demolition Plan  A
	2. Long Lead Items Must Be Ordered Promptly To Ensure Timely Deliveries.	1. General Notes Are One Or More Notes In List Form Which Are Not Indicated Specifically On A Plan, Section,	KEY PARTICIPANTS & THEIR ROLES	E102 New Work Plan A
$\frac{1}{2}$	3. All Work Must Follow The Proposed Layout Shown In The Construction Drawings. Change Orders Will Not Be Authorized So All Estimates Must Be Very Specific.	Elevation, Or Detail.  2. Key Notes Are Used In Lieu Of Standard Notes Where They Improve Readability, Key Notes Are Gathered	Owner Mechanical / Electrical / Plumbing	E103 Electrical Notes And Lighting Schedule  E104 Panel Schedules - 1  A
	4. All Work Shall Be Performed During Normal Hours Unless Other Arrangements Are Made And Authorized.	Together And Listed Collectively On The Drawings On Which They Are Located.  Addenda & Revisions	North Jersey District Water Supply Commission One F.A. Orechio Drive  DLB Associates 3600 Route 66, Suite 150 - #5981	E104 Panel Schedules - 1  E105 Panel Schedules - 2  A  A
1		Some Addenda And Revisions Are Identified On The Drawings Using A $1$ . The Number In The Triangle Links To	Wanaque, NJ 07465 Neptune, NJ 07753  Contact: Chris Clamser Contact: Dan Rehberg - Project Manager	
		The Revision Block In The Title Block Section.  Sometimes The Most Recent Change Is Clouded To Provide Increased Clarity.	Email: cclamser@njdwsc.com Tel: (973) 390-3032  Contact: Dan Renberg - Project Manager Email: drehberg@dlbassociates.com Tel: (732) 318-0314	
+		dlbassocia	project NIDWSC WANAQUE SQUTH	title dwg. no.
24X30		consulting engi	hineers  0-#5981  HVAC & LIGHTING REPLACEMENT	GENERAL INFORMATION SHEET - 1  G101
	A 6/23/23 ISSUE FOR BID AND DCA REVIEW  REV. DATE ISSUE DESCRIPTION ITEM DATE ISSUE DESCRIPTION	Questions For DLB Call:  DLB Project ID: 13636 Phone:	Dan Rehberg	scale drawn by checked by date filename AS SHOWN CAD DR 06/09/2023 12636G101
ㅗ	REV.   DATE   ISSUE DESCRIPTION   ITEM   DATE   ISSUE DESCRIPTION Saved: N:\12\126\12636 - NJDWSC WSPS HVAC Upgrades\12636G101.dwg, 7/24/23 at 3:15 PM By DREHBERG - Last Printed: 7/	·	:: 732-318-0314	AS SHOWN CAD DR 06/09/2023 12636G101 Confidential and Proprietary / ©DLB Associ

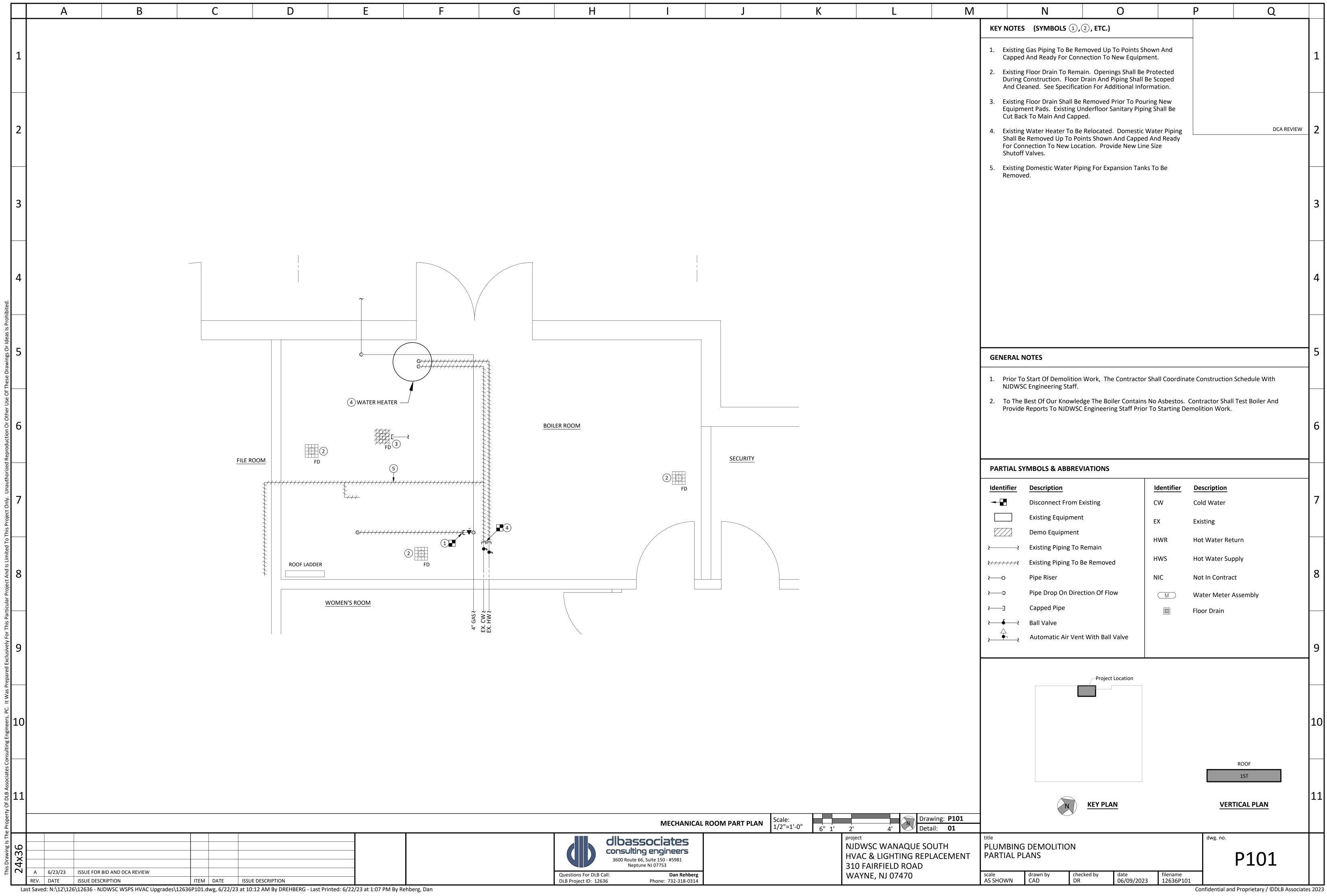
	А	В		С	D	Е		F	G		Н			J		K	L		M	N	О	Р	Q
		GENERAL STRUCTUR	RAL AND CONS	STRUCTION NO	<u>OTES</u>																		
	1.0 GENERAL  1. All work	k shall conform to the "2021 International	Buildina Code" and to a	ıll other applicable Feder	ral. State. and Local	expose	ed area with gal	alvanizing repair paint.	es of weld shall be cle Galvanizing repair paint	t shall be a high	zinc dust content pai	int complying											
1	regulatio 2. In case	ons. e of conflict between the General Notes, S	pecifications, and details,	the most rigid requirem	nents shall govern.	equal.			or SSPC—Paint—20, Co														1
	be repectured to the state of the contract of the contract of the conformation of the	e safety and construction procedures are ntractor shall provide for dewatering as re ts of investigation and/or redesign due t nance with the Contract Documents shall b	the sole responsibility of equired during excavation o Contractor improper instead to the Contractor's ex	the Contractor. and construction. stallation of structural expense.	elements or other items not in	Archite grating 13. Visually <u>5.0 DESIGN DATA</u> 1. Governi	ectural Metal Mo g shall be ASTM ly inspect all fille <u>A</u>	lanufacturers and shal 1 A569. All grating sh	ll conform to Federal S hall be galvanized and c	Specification RR-0	G-661É, Type I, Class	ASSOCIATION OF											
2	8. If the e shall no on the ( 9. Shop di commen 10. Reproduc	ructural drawings shall be used in conjunct of drawings, it is the Contractor's responsible existing field conditions do not permit the otify the Engineer immediately and provide Contract Documents. Do not commence we drawings for all structural materials to not not more more of the Structural Contract of any portion of the Structural Contract of the S	cility to notify the Engineer is installation of the work is a sketch of the condition is resined be submitted to Engine is minimum of two (2) we contract Drawings for resu	er prior to performing the control of the control o	he work.  e details shown, the Contractor modification of the details given is approved by the Engineer.  o the start of fabrication or	3. Snow L Pg 4. Wind Lo	g (Ground Snow I					30 PSF											DCA REVIEW 2
3	one (1)  12. Shop dr all cons compliar  13. The sho  14. The dra profession  15. The stru	drawings submitted for structural review s  ) marked up set of reproducible with the  lrawings shall bear the Contractor's stamp  nstruction criteria, materials, and similar  ance with the Contract Documents.  op drawings shall include dimensioned grat  awings have been produced entirely on M  ional stamps and signatures, have been m  ructural drawings shall govern the work for  terials shall be stored to protect them from	Structural Engineer's com of approval which shall data and has checked ting edges.  MPP Engineers Cadd Syst hade without the authorize of all structural features, u	nments will be returned of constitute certification of deach drawing for contemporary term. Any other lettering ation of MPP Engineers unless noted otherwise.	to the Contractor. that the Contractor has verified completeness, coordination, and g, lines or symbols, other than	B. I C. Wi D. Wi 5. Special A. De	(Wind Importance Vind Exposure Vind Direction  I Loads: Dead Loads:				As	C per the Code											3
	2.0 FOUNDATIONS	<b>'</b>	m exposure to the eleme	ents.		1. N	Materials Of Cons																
4	adjacen A new this pro Enginee 2. Footings 3. Prior to	ations have been designed for an all nt building information, known informat Subsurface Investigation Report, with roject at this time. The soil informa er during construction. gs shall bear on undisturbed stratum o to footing concrete placement, the foo	ion from adjacent sites foundation recommend ation and bearing cape or engineered fill with a ting subgrade shall be	e, and similar soil condations, has not been acity shall be verified minimum bearing cap approved by the insp	ditions in the project vicinity.  In provided by the Owner for  I by a qualified Geotechnical  pacity of 1,000 psf.  Decting Geotechnical Engineer.	2. F	<ul><li>i. Framing</li><li>ii. Grating</li><li>Fixed Service Equ</li><li>i. Mechanic</li></ul>				SEE F												4
	material 4. The bot codes.	ditions prove to be unacceptable at ele al. Fill over—excavation with lean concre ottom of exterior footings shall be a r te for foundations shall be poured on	ete (2,500 psi). minimum of 4'-6" belo	w finished grade, or	as required by Local building																		
5	foundat respons 7. The Co system	ontractor shall observe water condition tion excavations remain dry during cosibility of the Contractor.  ontractor shall be responsible for contractor shall be responsible for installing No. 02—2.  LACE CONCRETE	onstruction. Any sheeting ordinating the need to	g or shoring required  use foundation rebo	for dewatering shall be the ar as a grounding electrode																		5
6	1. Concrete (ACI-31) 2. Concrete exposed 3. Maximum A. Fou	ete shall be designed and detailed in 18—08), and constructed in accordance the shall have a minimum compressived concrete work.  Sum water/cement ratios:  Soundations 0.44  Increte shall be normal weight concrete	e with the CRSI Manual ve 28—day strength of ete (144 pcf +) with	of Standard Practice. f 5,000 psi. Air Entr a all cement conform	rainment 5.5% to 8% in all ning to ASTM C150, Type I.																		6
7	5. Reinford 6. Submit concrete 7. All reinf shall be 8. Placing 9. Concrete	nforcement shall be securely held in plose provided by the Contractor to furnisg of concrete shall not start until the start and the start until the start until the start until the shall not be pumped through alur	drawings for approval of lace while placing concr h support for all bars. placement of reinforcing minum pipes and shall	and mix designs for rete. If required, addit g has been approved not be placed in co	review prior to placing any tional bars, stirrups or chairs by the Inspection Agency.																		7
,	10. All inser 11. Chamfer 12. Early d shall be membro	drums, buggies, chutes, conveyors or erts and sleeves shall be cast—in—place or all exposed concrete corners unless drying out of concrete, especially durible moist cured or protected using corne curing agent is used, exercise car weather concreting shall be in accordance.	e. noted otherwise. ing the first 24 hours a membrane curing ag re not to damage coati	s, shall be carefully g gent applied as soon ing.	as forms are removed. If																		
8	14. Through construction STRUCTURAL	hout construction, the concrete work uction equipment, materials or methods	s, ice, rain, snow, exces	ssive heat, and freezir	ng temperatures.																		8
	America Structur which s 2. All weld America	an Institute of Steel Construction in ural Joints Using ASTM A325 or A490 shall not be applicable to this project. ding shall be performed by certified we an Welding Society.	ncluding Specifications Bolts, and AISC Code (	for Structural Steel of Standard Practice m to "Structural Weldin	Buildings, Specification for except Sections 4.2 and 7.9																		
9	4. Structur 5. Galvaniz A. Str B. Bol 6. All bolte 7. Welding be cert 8. Submit mechan Initial s	ural shapes & plates: ASTM ized structural steel: tructural shapes and rods ASTM olts, fasteners and hardware ASTM ted connections shall be with ASTM A32 g electrodes shall be E70XX for manual tified by the AWS. Minimum weld size shop drawings for fabrication and nical unit and roof penetration sizes. shop drawing submittal shall include p	A A36, A572 or A992.  A A123.  A A153.  25 high strength bolts:  al arc welding and F7X- shall be ¾6" unless no erection of structural Shop and Erection dra roposed connection determines	34" minimum diameter, -EXXX for submerged oted otherwise. steel. Clearly indicate awings must show all cails and job standard	arc welding. All welders shall e coordinated dimensions of l shop/floor and field welds.																		9
10	9. Alternat However those d propose 10. All exte	ntions for all non—standard connection at the connection details may be used iter, the engineer shall be the sole judicated as shown on the drawings. The Coles.  erior exposed structural steel shall be	f such details are sub dge of acceptance and ontractor is responsible	bmitted to the engine I the Contractor's bid for the design of su	I shall anticipate the use of																		10
																							4 4
11			1 1	ı		ı				ı						ı						I	
24x36	1 4/14/23	ISSUED FOR REVIEW									Questions For DLB Call:	Jbassoci onsulting eng 3600 Route 66, Suite 15 Neptune NJ 077	gineers 150 - #5981 753 Dan Rehberg	Allen Phor	PP Engineers LLO S Main St Itown, NJ 08501 ne: (609) 489-5511	NJ H\ 31	OJECT JDWSC WANAQ VAC & LIGHTING 10 FAIRFIELD RC /AYNE, NJ 07470	G REPLACEMEN DAD	IT	AL NOTES  DRAWN BY	CHECKED BY DATE I	FILENAME	S-001
	REV. DATE	ISSUE DESCRIPTION	ITEM	DATE ISSUE DES	SCRIPTION						DLB Project ID: 22-02	Phon	ne: 732-318-0314	PROFESSIONAL ENGINE	EER, N.J. LIC. No.4873	32 VV	, NJ 0/4/		SCALE AS SHOWN	MPP		22-0272 WSPS	

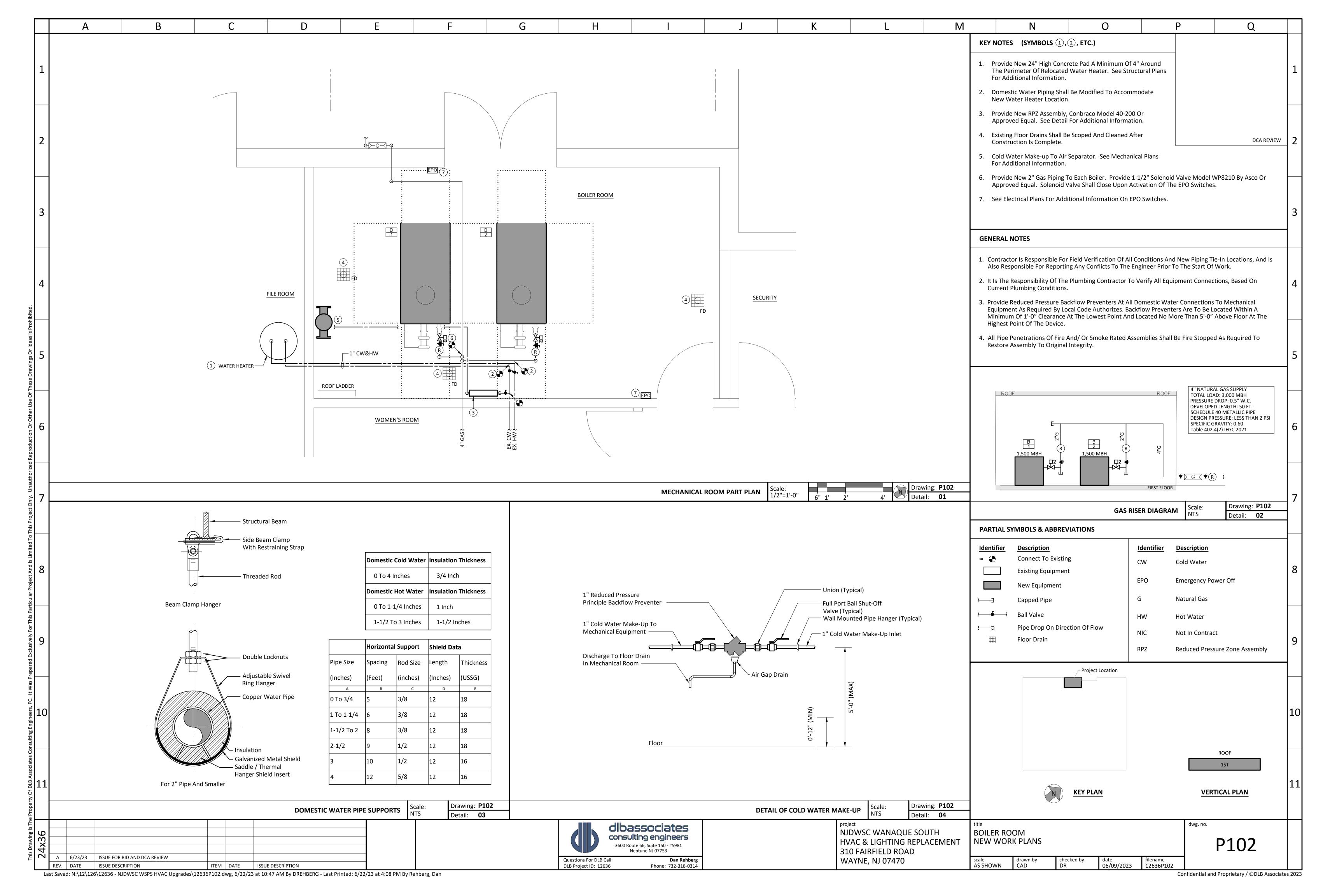


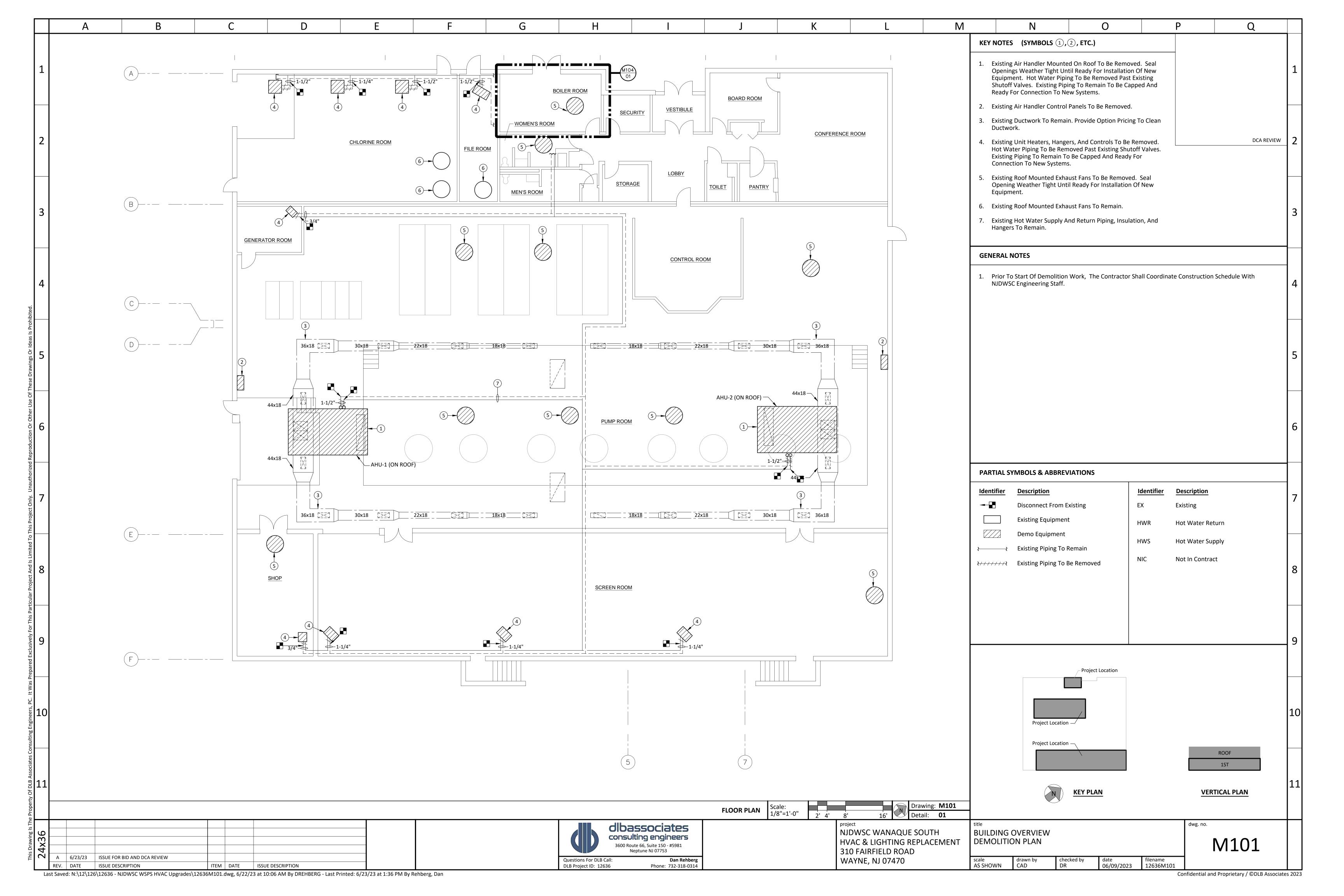


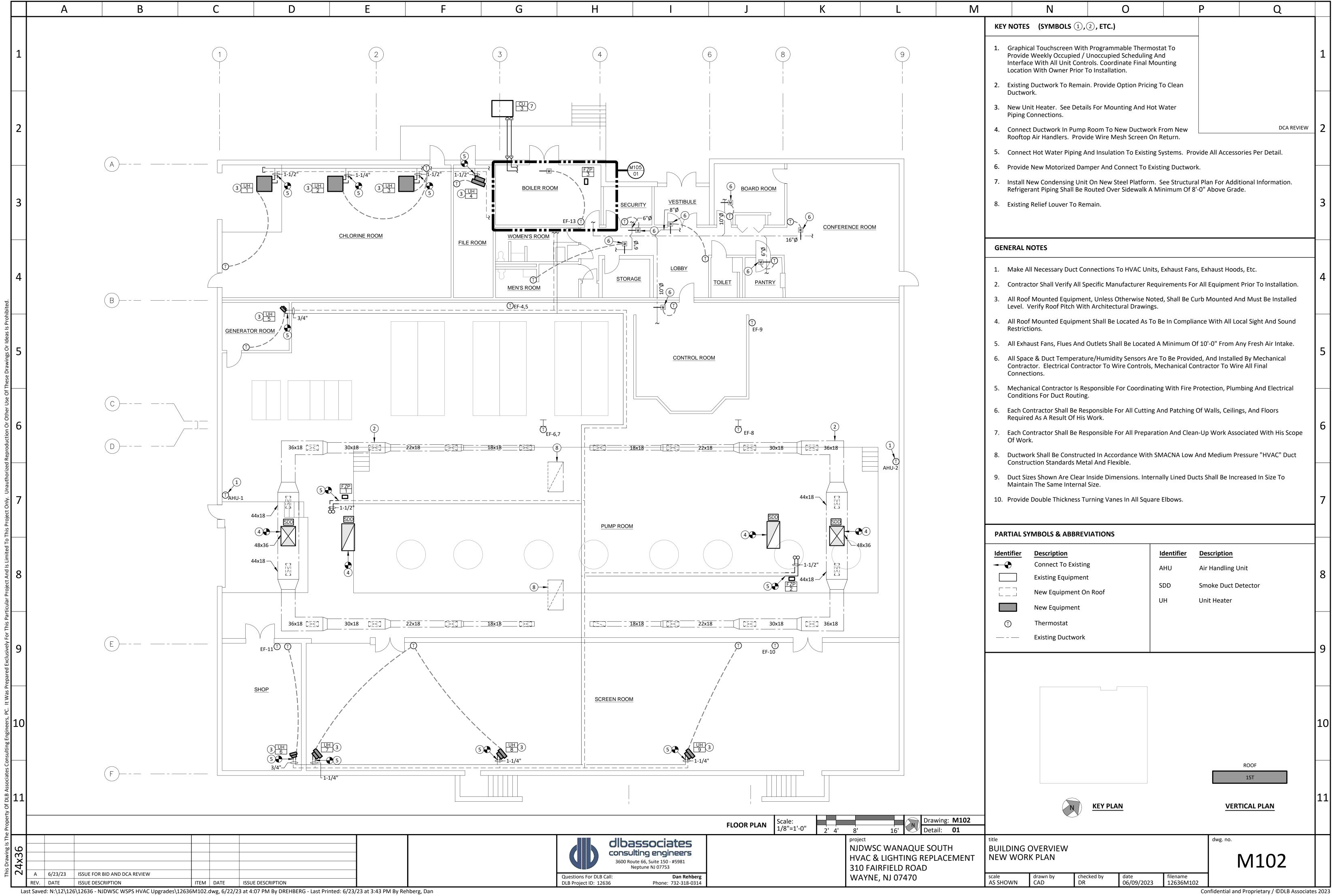
Α Β Ε	D E F G H	J K L	M N O P Q
	GENERAL SYMBOL LIST	MECHANICAL SYMBOL LIST	ELECTRICAL SYMBOL LIST
	<u>Identifier</u> <u>Description</u>	<u>Identifier</u> <u>Description</u> <u>Identifier</u> <u>Description</u>	<u>Identifier</u> <u>Description</u>
	1 Keynote Symbol	← CD ← Air Conditioning Condensate Drain ← Manual Air Vent (Ball Valve W/	———— Electrical Conduit
	Xeynote With Leader	U-Bend, Hose Connection And Cap)  U-Bend, Hose Connection And Cap)  □ Pressure Gauge With Ball Valve	Electrical Conduit Run Concealed Via Floors, Walls, Underground
	Multiple Keynotes Applying To The Same Item	E −HWR− → Heating Water Return  Thermometer And Well	Conduit Homerun
	Connect To Existing	Strainer With Full Size Blow Down	
$\underline{2}$	Disconnect From Existing	Existing Piping To Remain  Ball Valve, Hose Connection & Cap	
	Existing Equipment		Conduit End (Capped)
	Demo Equipment		Duplex Receptacle, 20A, 120V
	New Equipment	Pipe Drop On Direction Of Flow	Ground Fault Interrupting  GFI Receptacle, 20A, 120V
	Detail Identifier	Capped Pipe	Ground Fault Interrupting,
3	Drawing # (Detail Location)  Detail #	Pitch Of Pipe (Down)  M— Motorized Damper	GFI Mounted High Or Above Counter  Duplex Receptacle, 20A, 120V
	Section Identifier  Drawing # (Datail Location)	→ □ → Reducer / Increaser → Diffusor / Pogistor / Grillo	д Mounted High Or Above Counter
	Drawing # (Detail Location)  Detail #	Number, CFM	Duplex Receptacle, 20A, 120V
	Elevation Identifier  Drawing # (Patrill a pation)	CFM,   CFM,   CFM,   CFM,   Coubic Feet Per Minute	Junction Box, Wall Or Ceiling Mtd
1	Drawing # (Detail Location)  Detail #	→ Supply Air Flow  ———— Pipe Guide	Panel Board, Flush Or Surface Mtd
T	Equipment Type Equipment Number	Union Or Flanged Connection, As Required  The property of the control of the cont	Unfused Safety Switch - Sized Per Equipment Requirements
		Required	Motor
		Butterfly Valve  2 Way Ceiling Diffuser  2 Way Ceiling Diffuser	
		Check Valve  1 Way Ceiling Diffuser	
5		Ball Valve Floor Diffuser (With Damper)	ELECTRICAL ABBREVIATIONS
		← Lubricated Plug Cock / Gas Cock	Identifier   Description   Identifier   Description
		Adjustable Pressure Relief Valve Supply Duct Up	A Amp(s) MOCP Maximum Overcurrent
	GENERAL NOTE:  1. Symbols And Abbreviations Lists Are Shown For General Reference Only. The Presence Of A Symbol Or	Calibrated Orifice Balancing Valve  Return / Exhaust Duct Up	AC Alternating Current Protection
	Abbreviation Does Not Imply Its Use On This Project. Refer To Drawings For Specific Symbols Used.	Balancing Valve  Supply Duct Down	AF Amp Frame MV Medium Voltage (> 600V)  AIC Amps Interrupting Capacity N Neutral (Grounded Circuit
	GENERAL ABBREVIATIONS	Control Valve	(RMS Symmetrical Amperes) Conductor)
	Identifier   Description   Identifier   Description	Automatic Air Vent With Ball Valve  Thermostat	AFI, AFCI Arc Fault Current Interrupter NC Normally Closed
	A Amps MC Mechanical Contractor	Manual Drain (Ball Valve With Hose Connection And Cap)	AT Amp Trip NEC National Electrical Code  ATS Automatic Transfer Switch NEMA National Electrical
	AFF Above Finished Floor MCA Minimum Circuit Amps		C Conduit Manufacturer's Assoc.
7	AFG Above Finished Grade MFR Manufacturer  BFG Below Finished Grade MH Mounting Height		CB Circuit Breaker NO Normally Open CT Current Transformer Night Light
	BLDG Building MIN Minimum		CT Current Transformer NL Night Light  DC Direct Current PH, φ Phase
	BOB Bottom Of Beam MTD Mounted  CL Center Line NIC Not In Contract	MECHANICAL ABBREVIATIONS	EMT Electrical Metallic Tubing PF Power Factor
	CL Center Line NIC Not In Contract CLG Ceiling NTS Not To Scale	<u>Identifier</u> <u>Description</u> <u>Identifier</u> <u>Description</u>	EWC Electric Water Cooler PRI Primary  FACP Fire Alarm Control Panel PNL Panel
	CO Company OC On Center	AD Access Door MAU Make Up Air Unit BTU British Thermal Units MBH Thousand BTU Per Hour	G, GND Ground RECEPT Receptacle
3	CONTR Contractor PC Plumbing Contractor  DIA, Ø Diameter PSI Pounds Per Square Inch	BTU British Thermal Units MBH Thousand BTU Per Hour  CD Ceiling Diffuser MOD Motor Operated Damper	GFI, GFCI Ground Fault Circuit Interrupter RGS Rigid Galvanized Steel
	DEG, ° Degrees PVC Polyvinyl Chloride	CFM Cubic Feet Per Minute OA Outside Air	HV High Voltage (> 69,000V) SEC Secondary  IG Isolated Ground SCP Security Control Panel
	DN Down R Existing Equipment To Be Remove	CD Calling Register	IMC Intermediate Metal Conduit STP Shielded Twisted Pair
	DWG(S) Drawing(s) RL Existing Equipment To Be Relocate  EC Electrical Contractor RLA Running Load Amps	CU Condensing Unit OPWT Operating Weight	JB, J Junction Box SWBD Switchboard  KCMIL Thousand Circular Mil TEL Tolophone
	EM Emergency RPM Revolutions Per Minute	DB Dry Bulb PSI Pounds Per Square Inch	KCMIL Thousand Circular Mil TEL Telephone  LRA Locked Rotor Amps TBB Telephone Backboard
	EQUIP Equipment SDD Smoke Duct Detector  ETR Existing To Remain SQ. FT., SF Square Feet	EAT Entering Air Temperature RA Return Air  EF Exhaust Fan RG Return Grille	LV Low Voltage (< 50V) TMCC Temperature Motor Control Center
	ETR Existing To Remain SQ. FT., SF Square Feet  EX Existing T Thermostat	EG Exhaust Grille RTU Rooftop Unit	MC Metal Clad Cable UTP Unshielded Twisted Pair  MCB Main Circuit Breaker V Volt
	FLA Full Load Amps TRF Transfer Fan	ESP External Static Pressure SC Self Contained Control Valve  EWB Entering Wet Bulb SD Smoke Damper	MCC Motor Control Center VA Volt-Ampere
	FS Flow Switch TS Tamper Switch FT Feet Typical	EWB Entering Wet Bulb SD Smoke Damper  FDAD Fire Damper And Access Door SDD Smoke Duct Detector	MDP Main Distribution Panel VAR Volt-Ampere Reactive
o	GC General Contractor UNO Unless Noted Otherwise	FD Fire Damper SR Supply Register	MDS Main Distribution Switchboard W Watts  MLO Main Lugs Only WP Weatherproof
	HP Horsepower VAV Variable Air Volume IN Inches VAD Variable Frequency Drive	FSD Fire Smoke Damper TA Transfer Assembly  FPM Feet Per Minute TO Transfer Opening	XFMR Transformer
	K Thousand VFD Variable Frequency Drive	G Gas TT Thermostatic Trap	
	LRA Locked Rotor Amps	GPM Gallons Per Minute UV Unit Ventilator	
	MAX Maximum	HVAC Heating, Ventilation, And Air VIC Vibration Isolation Connection  Conditioning WC Water Column	
1		LAT Leaving Air Temperature WG Water Gauge	
			title .
		dlbassociates consulting engineers	
		3600 Route 66, Suite 150 - #5981	G102
A 6/23/23 ISSUE FOR BID AND DCA REVIEW		Neptune NJ 07753 310 FAIRFIELD ROAD	

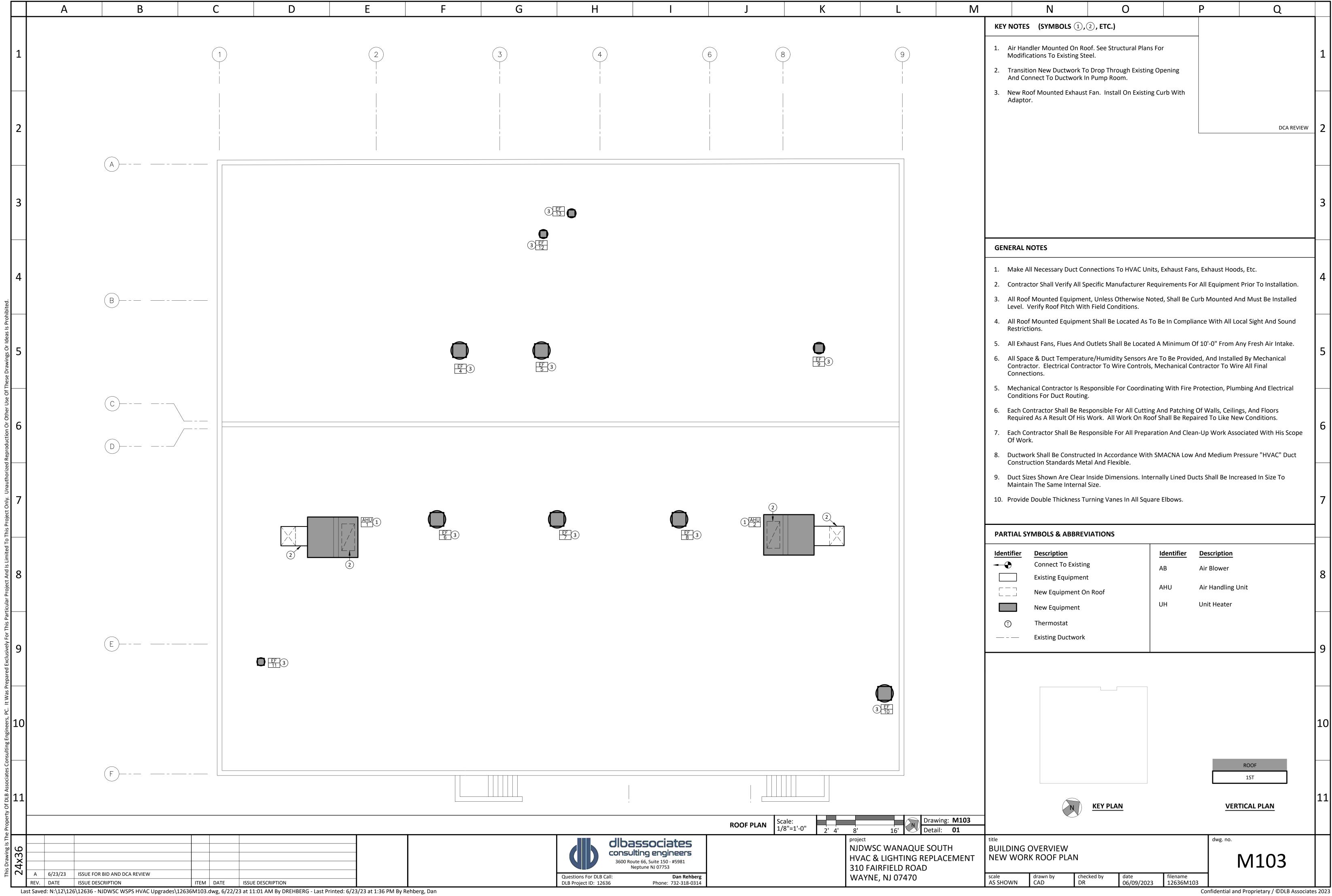


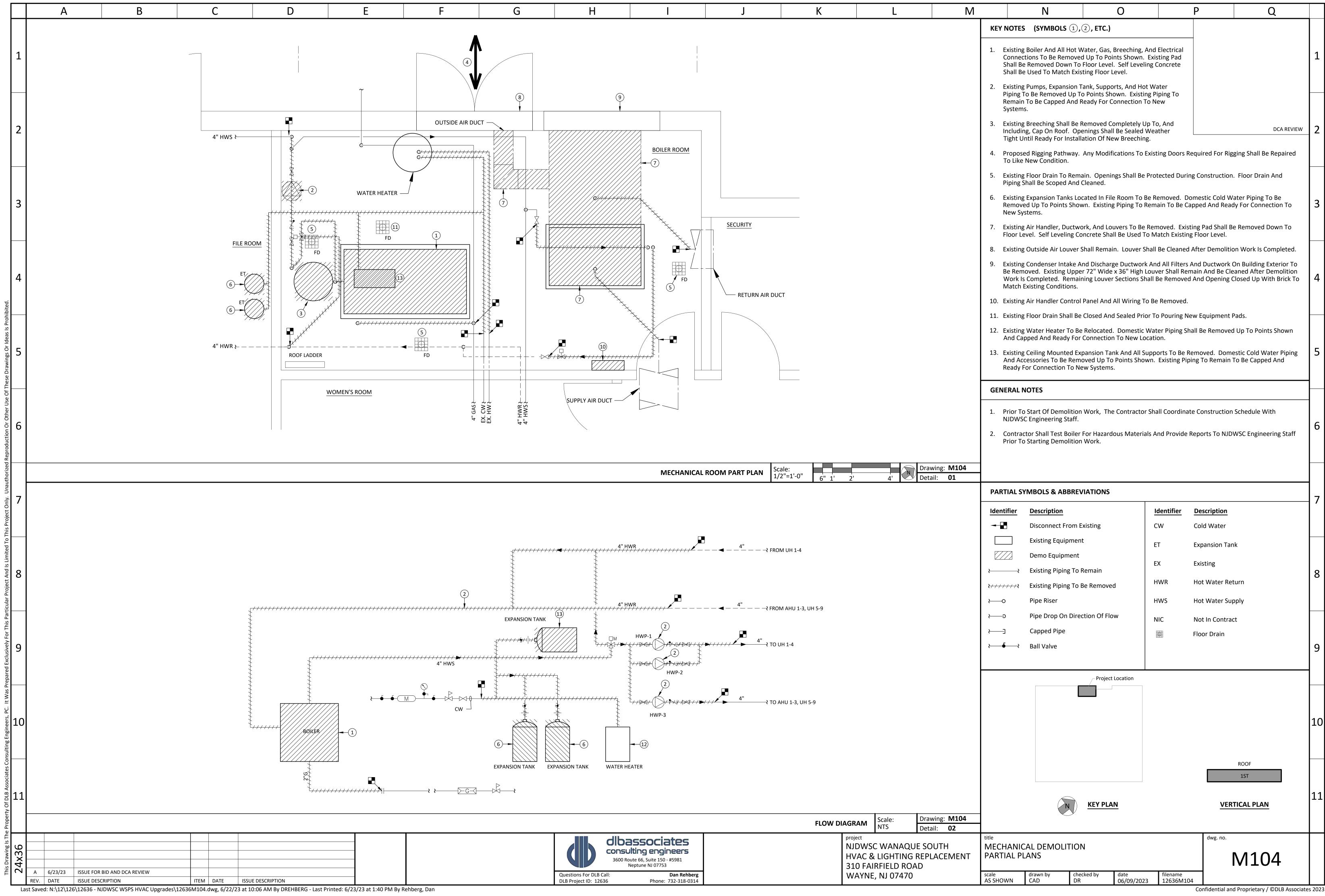


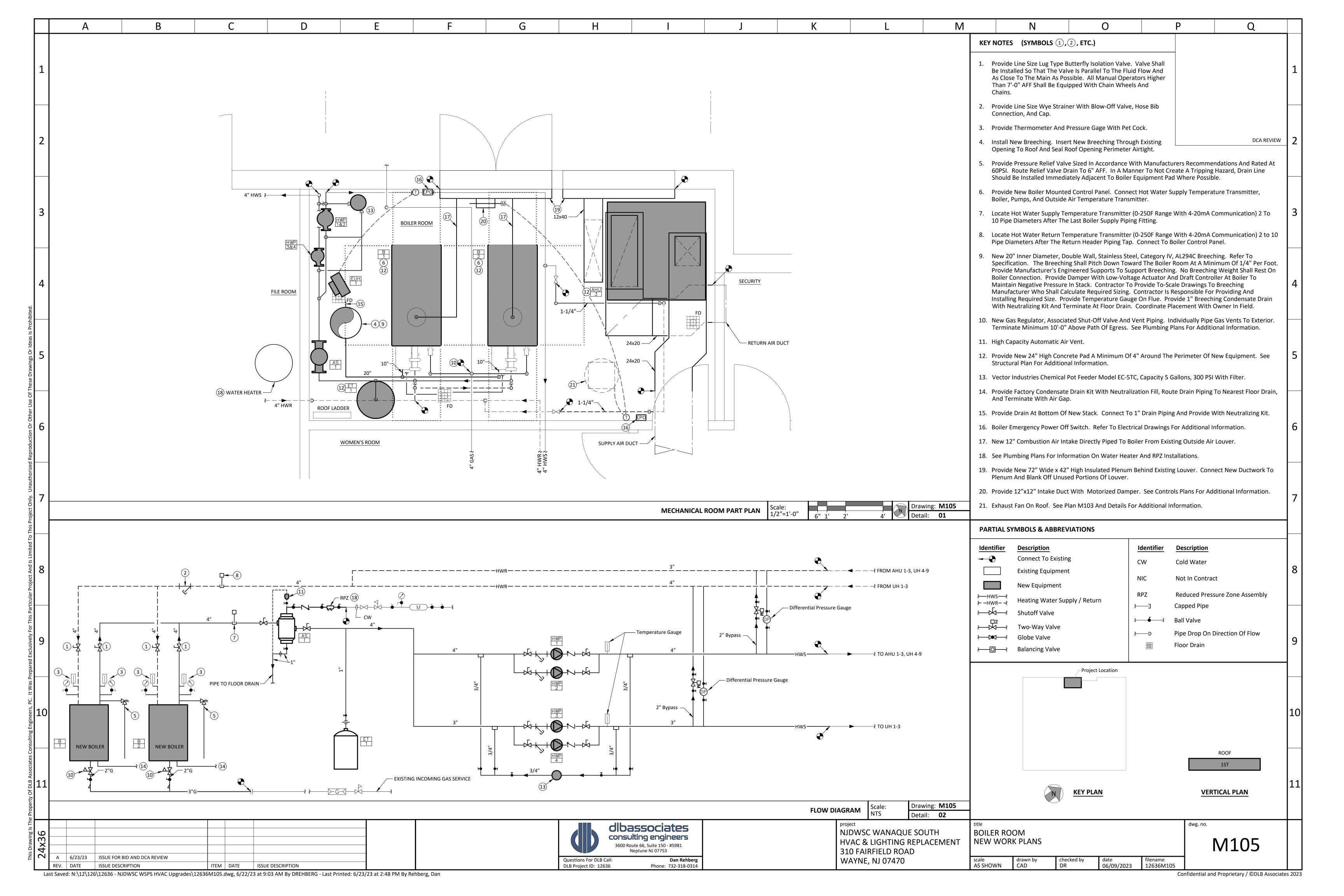


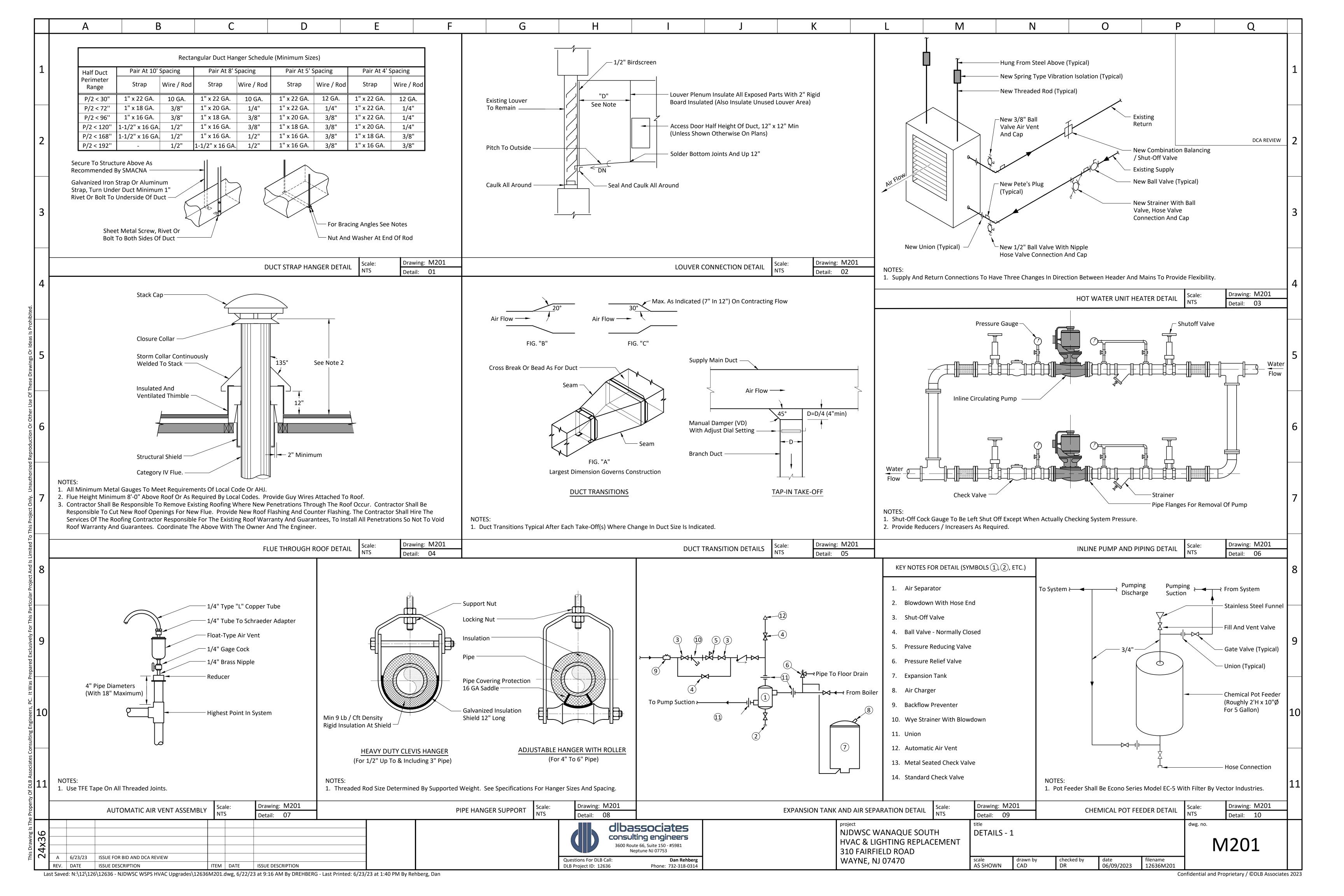


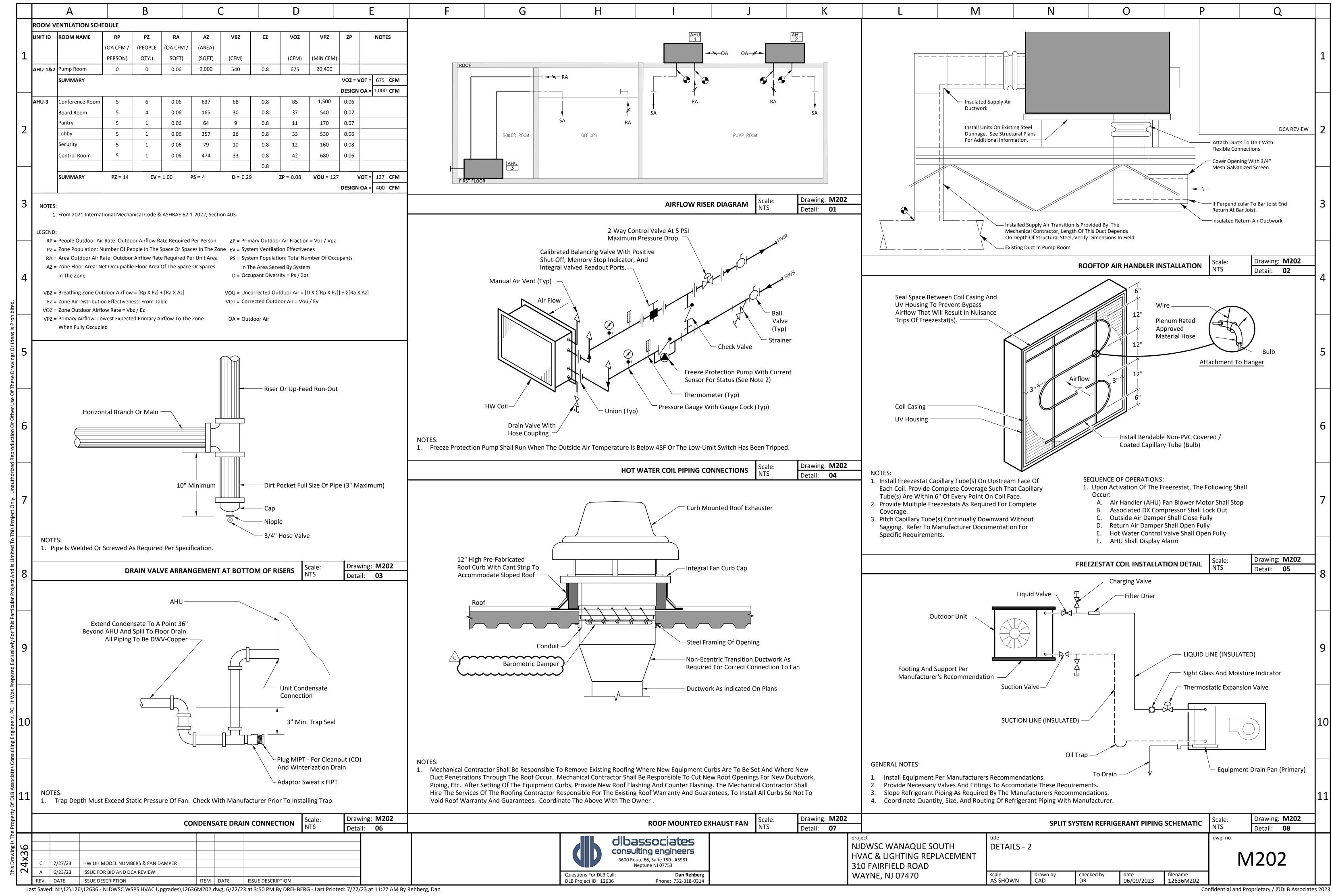


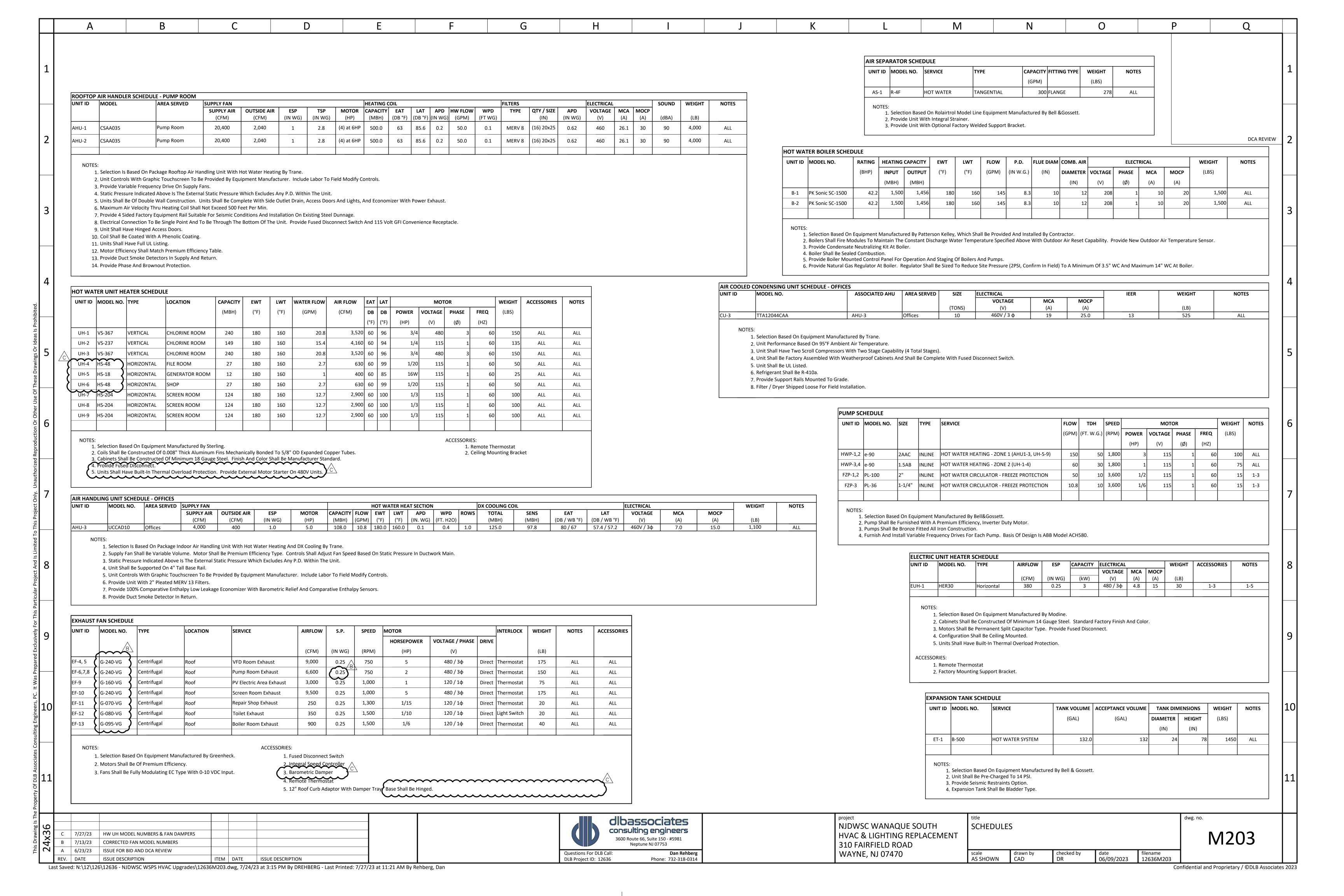


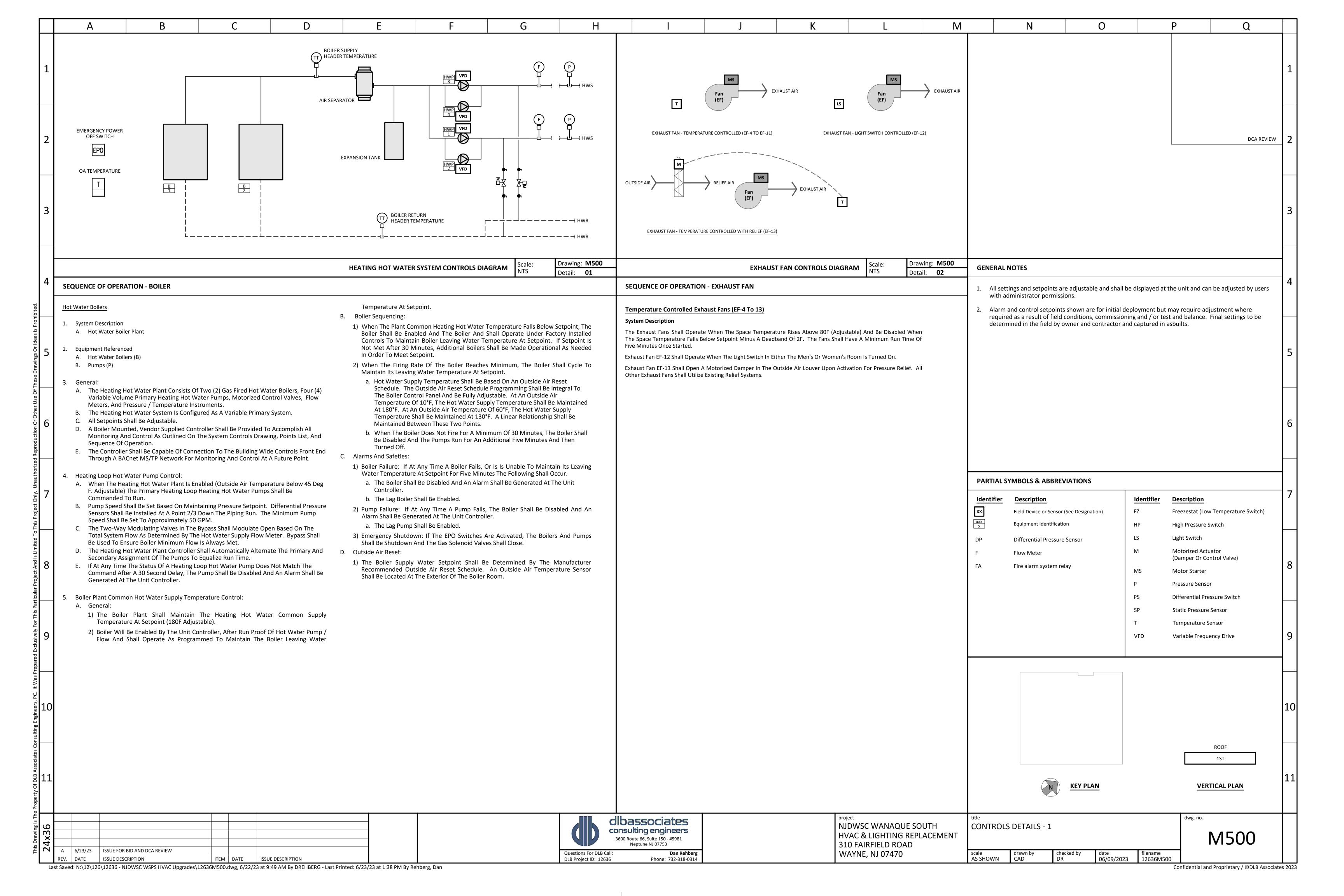


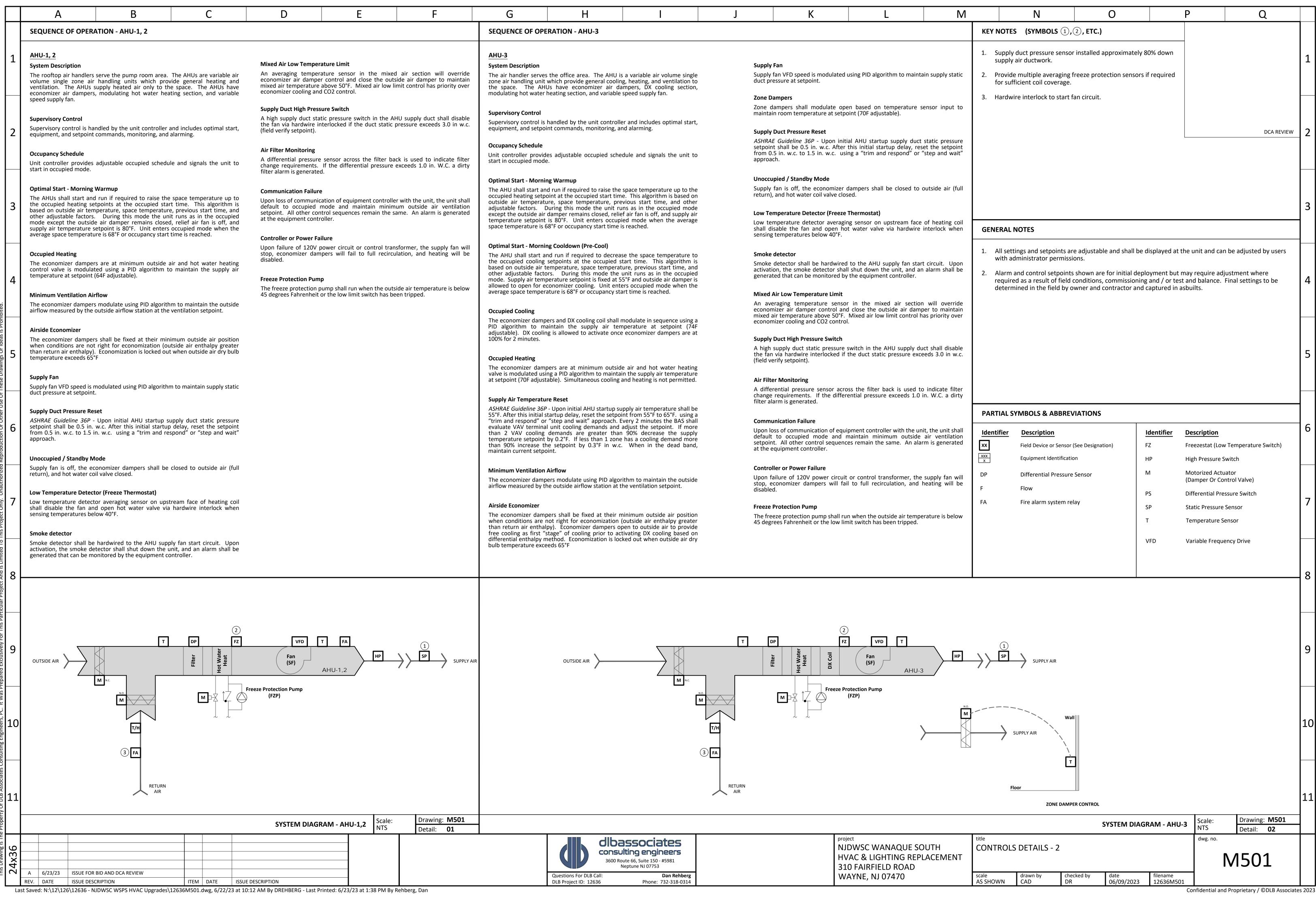


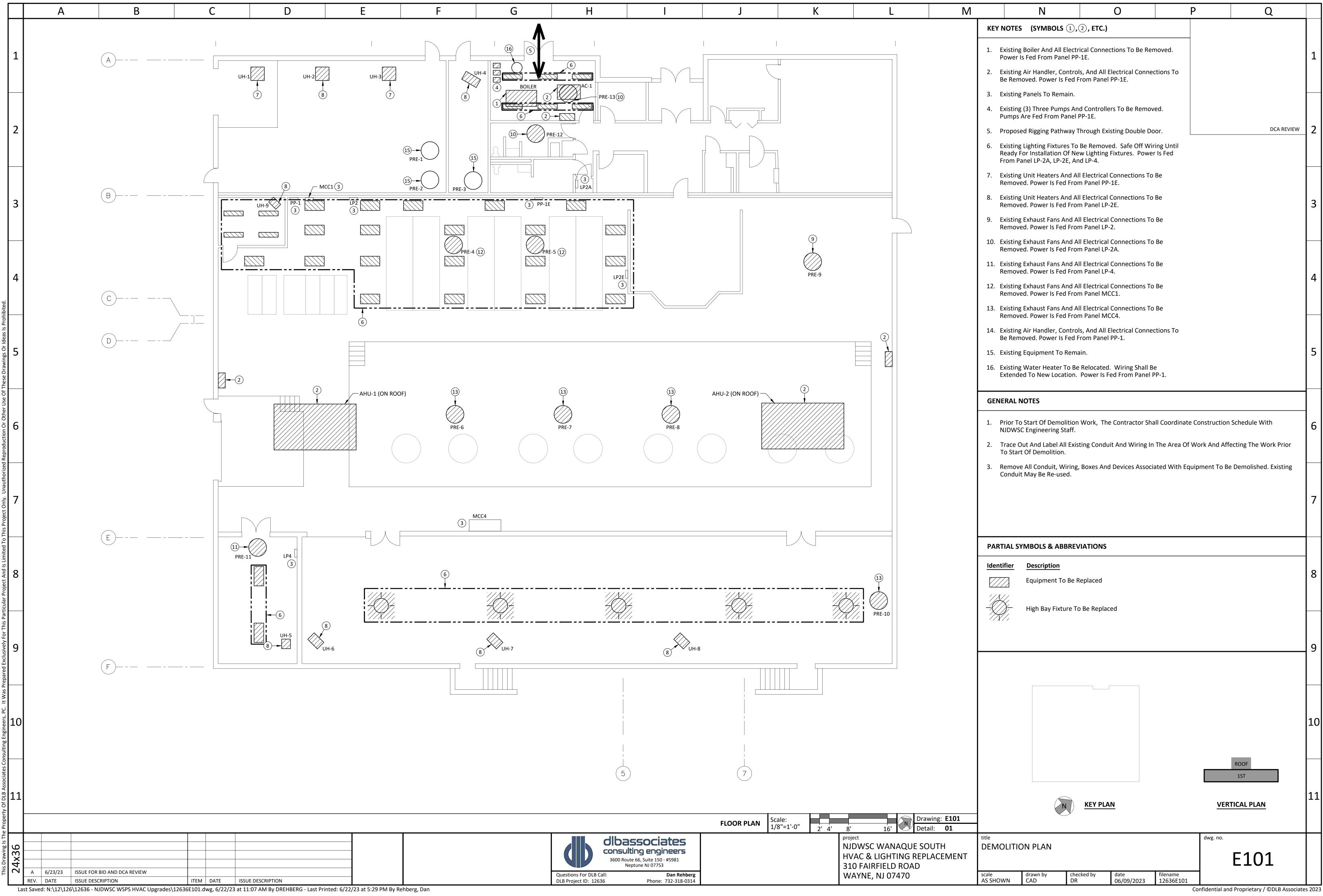


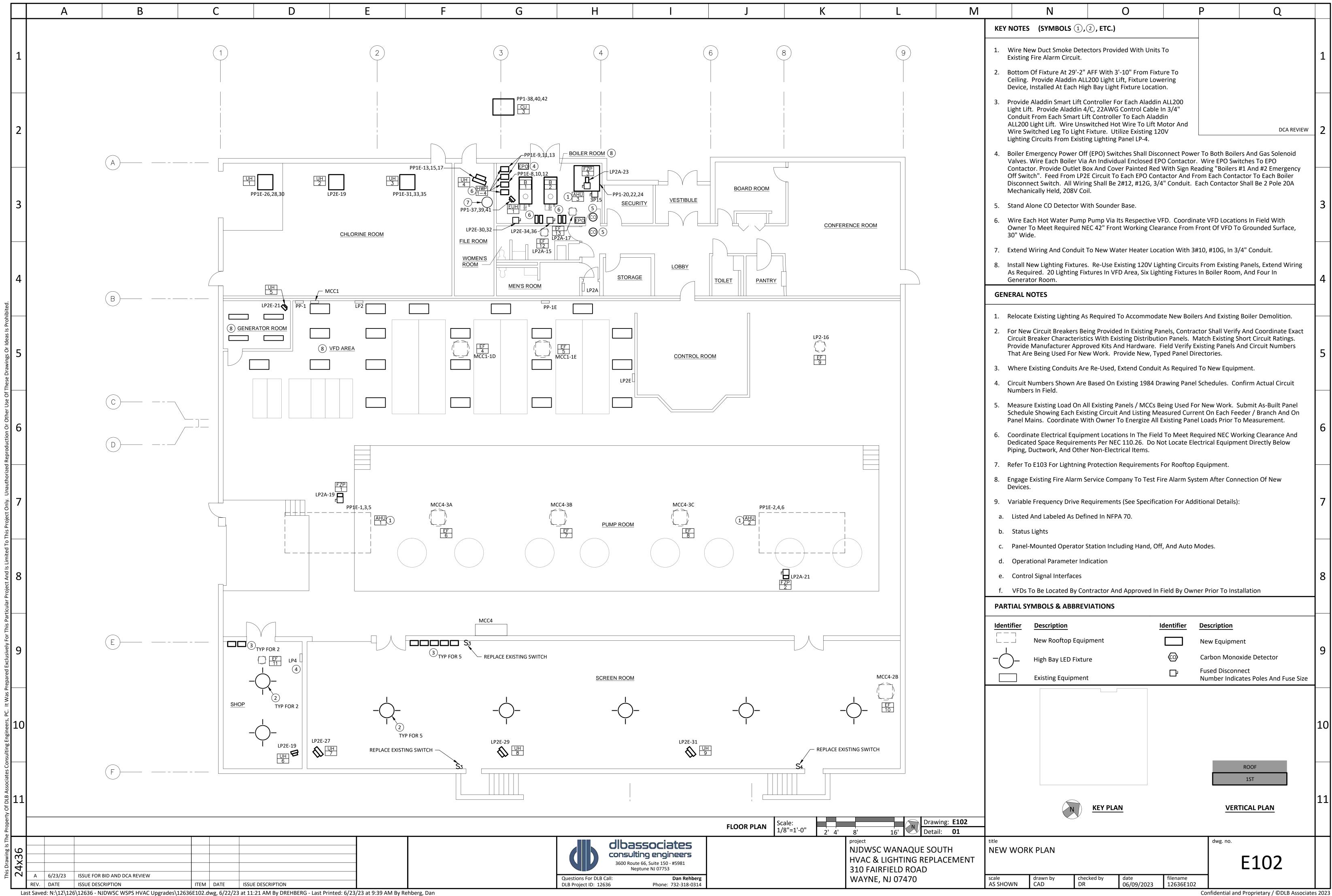


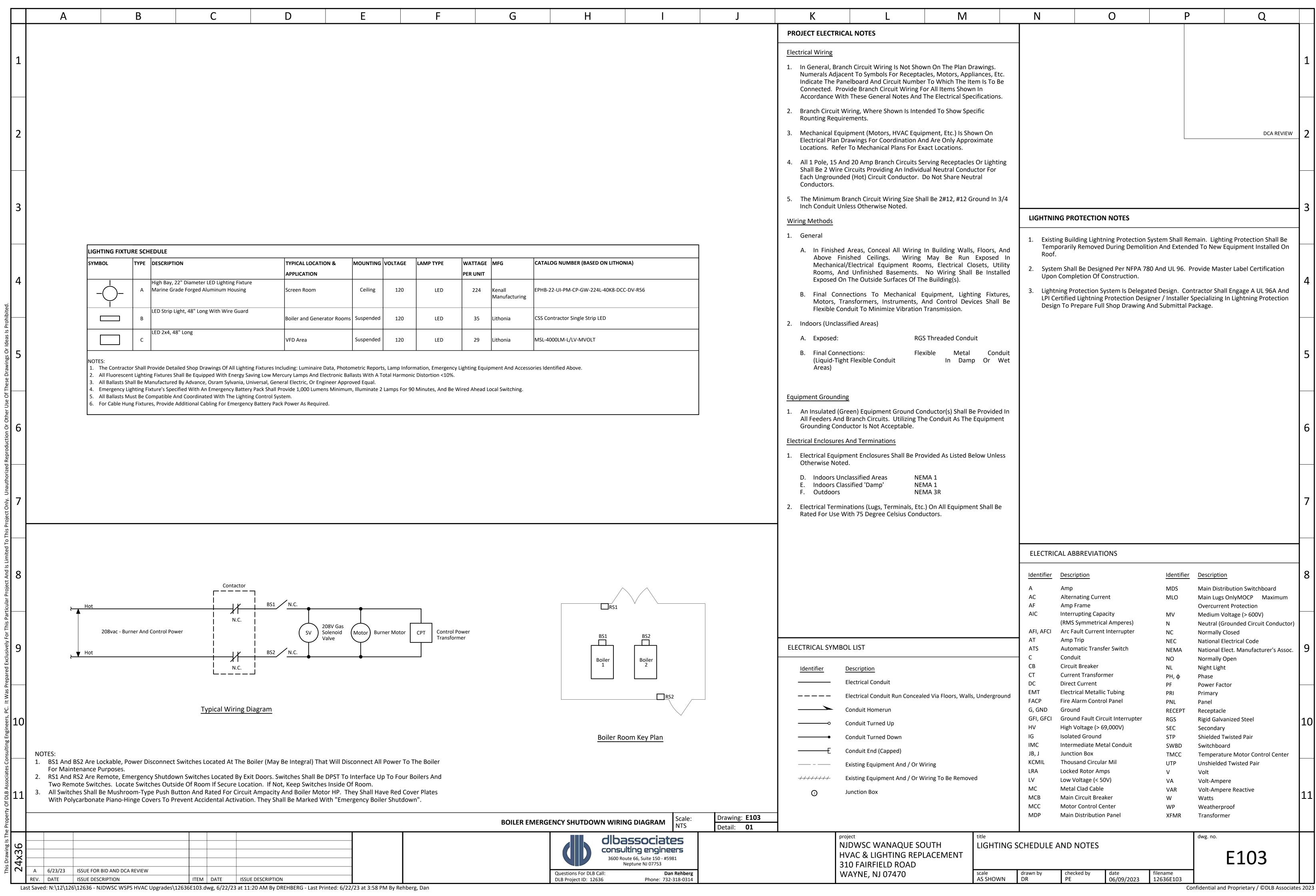












	АВ	С	D		E	F	G	Н	1	J K	L	M	N		0	Р	Q
	•	1	•		•					•	•		•		-		
1																	
	SCHEDULE FOR MOTOR CONTROL CENTE	R: Existing MCC-1							SCHEDULE FOR PANEL: Existing LP4	4							
	SYSTEM: <b>480Y/277V, 3Φ, 4W 300A Ver</b>				A SERVED: WSPS				SYSTEM: <b>208Y/120V, 3Ф, 4W</b>		NUMBER OF POLES: 42	AREA SERVED:					
	MAIN BUS: MCC SCCR:  MAINS TYPE: MAINS RATING		MCC CLASS:  MCC TYPE:		UNTING: FLOOR	SUPPLIED FROM:					EQUIP GROUND BUS: YES ISOLATED GND BUS: NO	PANEL LOCATION: MOUNTING:	WSPS SURFACE SUPPLIED FRO	N.4.			
	ID SERVES	EQUIPMENT			STARTER MINMUM FEEL	<del></del>	OPTIONS NOTES	_	CIR. SERVES	<del></del>	<del>                                     </del>	BREAKER MINIMUM BRANCI	<del></del>	IVI.	CIR.		
	#	LOCATION	HP PF	P TRIP TYP	PE SIZE AND CONDUIT	<del></del>			#	CIRCUIT & CONDUIT SIZE	P TRIP A B C	TRIP P CIRCUIT & CONDU	IT SIZE		#		
2	1 Bucket 1A						2		1		0				2		DCA REVIEW
	2 Bucket 1C 3 Bucket 1D						2		5   See Note 2		0		See Note 2		4		
	4 Bucket 1D, EF-4, formerly PRE-4	Pump Switchgear Rm	5 6.3 8	3 15	3#12, #12G, 3/	′4"C	1, 3, 4		7		0		366 11866 2		8		
	5 Bucket 1E, EF5, formerly PRE-5	Pump Switchgear Rm	5 6.3 8	3 15	3#12, #12G, 3/	′4"C	1, 3, 4		9		0				10		
	6 Bucket 1F						2		11		0				12		
3	7								13		0				14		
	9								17		0				18		
	10								19		0				20		
	11								21			20 1 2#12, #12 G, 3/4" C	1120 Screen Room I	ighting, note 1	22		
	12							$\dashv$	25   25						26		
,		TOTAL CONNECTED LOAD (k	VA) 13						27		0				28		
4	то	OTAL CONNECTED LOAD (AM	1PS) 15						29		0			_	30		,
	NOTES:								31						32		1
_	1. Provide new wiring in existing co								35						36		
	2. Existing panel demand is not exp	rected to criange. Existing Exi	naust rans are being repla	ueu iii kiiiu. 4. Kecont	ingure bucket, remove exist	Ling components, provide	new mermai magnetic breake	·	37		0				38		
	SCHEDULE FOR MOTOR CONTROL CENTE	R: Existing MCC-4	_					7	39		0				40		
5	SYSTEM: <b>480Y/277V, 3Φ, 4W</b>		JIP. GROUND BUS:	<b>/ES</b> AREA SE	ERVED: WSPS			]	41		0 1120 0	VA PER PHASE			42		
	MAIN BUS: 600 A MCC SCCR:	100kA RMS SYM MCC			OCATION: WSPS			4	TOTAL CONNECTED LOAD (VA)	1120	0 9 0	AMPS PER PHASE	3 TOTAL C	CONNECTED LOAD (AN	MPS)		
	MAINS TYPE: MLO MAINS RATING  ID SERVES		TYPE:  OTOR KVA AMPS		TING: FLOOR  RTER MINMUM FEEDER	SUPPLIED FROM:	IONS NOTES	4									
	#		PF RVA AWIIS		SIZE AND CONDUIT SIZ	<del>                                     </del>	NOTES		NOTES:  1. Provide new wiring in exis	sting conduit. Re-use existing breaker.	r. 2. Existing loads to remain are not sh	hown. Connected load indicate	ed reflects only equipment bein	g replaced.			
	1 Bucket 1A, 1B, 1C, 1D, 1E						2				ting being replaced with new lighting.						
6	2 Bucket 2A						2	_	COUEDING FOR RANGE. Existing LD	224							
١	3 Bucket 2B, EF-10, formerly PRE-10 4 Bucket 2D	Screen Room 5	6.3 8	3 15	3#12, #12G, 3/4"C		1, 3, 4	+	SCHEDULE FOR PANEL: Existing LP2 SYSTEM: 208Y/120V, 3Φ, 4W		NUMBER OF POLES: 30	AREA SERVED:	WSPS				
	5 Bucket 2E						2				EQUIP GROUND BUS: YES	PANEL LOCATION:					
	6 Bucket 3A, EF-6, formerly PRE-6	Pump Room 2	2.8 3	3 15	3#12, #12G, 3/4"C		1, 3, 4		MAINS TYPE: <b>MLO</b> MAINS R	RATING: N/A	ISOLATED GND BUS: NO	MOUNTING:	SURFACE SUPPLIED FRO	M:			
	7 Bucket 3B, EF-7, formerly PRE-7	Pump Room 2	2.8 3	3 15	3#12, #12G, 3/4"C		1, 3, 4	_	CIR. SERVES			BREAKER MINIMUM BRANCI			CIR.		
	<ul><li>8 Bucket 3C, EF-8, formerly PRE-8</li><li>9 Bucket 3D</li></ul>	Pump Room 2	2.8 3	3 15	3#12, #12G, 3/4"C	-	1, 3, 4	+	1	CIRCUIT & CONDUIT SIZE	P TRIP A B C	TRIP P CIRCUIT & CONDUI	IT SIZE		2		
7	10 Bucket 3E incoming line							1	3		0				4		
	11								5 See Note 2		0		See Note 2		6		
	12							4	7		0				8		
	тот	TAL CONNECTED LOAD (kVA)	) 15						11		0				12		
		L CONNECTED LOAD (AMPS)							13		0				14		
8	NOTES:								15 EF-12, formerly fed PRE-12, note 1		1 20 530				16		
<b>~</b>	1. Provide new wiring in existing co								17 EF-13, Formerly fed PRE-13, note 1 19 FZP-1, note 4	530 2#12, #12 G, 3/4" C 1176 2#12, #12 G, 3/4" C	1     20       1     20       1176				18		
	2. Existing panel demand is not exp	ected to change. Existing Exh	haust Fans are being repla	ced in kind. 4. Reconf	ntigure bucket, remove exist	ting components, provide	new thermal magnetic breake	r.	21 FZP-2, note 4	1176 2#12, #12 G, 3/4" C	1 20 1176				22		
$\dashv$									23 FZP-3, note 4	1176 2#12, #12 G, 3/4" C	1 20 1176				24		
									25		0				26		
									29						30		
9											1176 1706 1706	VA PER PHASE			$\vdash$		
									TOTAL CONNECTED LOAD (VA)	4588	10 14 14	AMPS PER PHASE	13 TOTAL C	CONNECTED LOAD (AN	MPS)		
									NOTES:								
									1. Provide new wiring in exis		r. 2. Existing loads to remain are not shown to be seen as a seen are because the seen are be						
									3. Existing panel demand of	23KW Is increased by 3.5KW (3 HW p	oumps). Two existing exhaust fans are b	being replaced in kind. 4. Pro	ovide new breaker, new wiring a	ana new conduit.			
LO																	
11																	
11																	
		,			,			_				_				•	
ا ا					1				essociates		project NJDWSC WANAQU		title PANEL SCHEDULES -	- 1		dwg. no.	
24x36					1 1				Ulting engineers oute 66, Suite 150 - #5981		HVAC & LIGHTING	REPLACEMENT		_		F	104
2 <del>4</del>	6/23/23 ISSUE FOR BID AND DCA REVIEW				1			Questions For DLB Call:	oute 66, Suite 150 - #5981 Neptune NJ 07753 Dan Rehberg		310 FAIRFIELD ROA		scale drawn by	checked by	date		<b>1</b>
- 1	DATE ISSUE DESCRIPTION	ITEM DATE	ISSUE DESCRIPTION		1			DLB Project ID: 12636	Phone: 732-318-0314		WAYNE, NJ 07470		scale drawn by AS SHOWN DR	checked by PE	date filename 06/09/2023 12636E	104	

Α	В	C	D	F	F	G	Н	I	1	K	L M	N	0	Р	0	
, ,		<u> </u>	_	_				<u>, , , , , , , , , , , , , , , , , , , </u>		• •		1 4		<u> </u>		
																1
	SCHEDULE FOR PANEL: Existing LP2E							SCHEDULE FOR PANEL: Ex								
	SYSTEM: 208Y/120V, 3Φ, 4W	CD IC: 40ha DNAC CVAA	NUMBER OF POLES: 42					SYSTEM: 480Y/277V, 3Φ		NUMBER OF POLES: 4 EQUIP GROUND BUS: Y						
	BUS RATING: 225 A MINIMUM ( MAINS TYPE: MLO MAINS RATI		EQUIP GROUND BUS: YES  ISOLATED GND BUS: NO		SURFACE SUPPLIED FROM	1.		BUS RATING: 250 A  MAINS TYPE: MCB	MINIMUM CB IC: 100kA RMS SYM  MAINS RATING: 200 A	ISOLATED GND BUS: N		SURFACE SUPPLIED FROM:				
	CIR. SERVES	LOAD MINIMUM BRANCH	BREAKER PHASE	_		CIR.		CIR. SERVES	LOAD MINIMUM BRANCH				CIR.			
	#	CIRCUIT & CONDUIT SIZE	E P TRIP A B	C TRIP P CIRCUIT & CONDU	UIT SIZE	#		#	CIRCUIT & CONDUIT S	SIZE P TRIP A B	C TRIP P CIRCUIT & CONDUIT	SIZE	#		DCA R	EV/IEVA/
	1		0			2		1		0			2		DCA R	
	3		0			4		3		0			4			
	5 See Note 2				See Note 2			5 See Note 2				See note 2	6			
	9		0	7		10		9			7		10			
	11			0		12		11			0		12			
	13		0	¬		14		13		0	_		14			3
	15					16		15					16			
	17 19 UH-2 & 6, formerly UH-2,4,9 notes 1&5	940 2#12, #12 G. 3/4" C	1 20 940			18 20		19		1551		1551 Formerly fed Office Air Con	nditioning 20			
	21 UH-4&5, formerly UH5,6,7,8 notes 1&5		1 20 1200			22		21			15 3 3#12, #12 G, 3/4" C	· ·				
	23			0		24		23			1551	1551	24			
	25		0	_		26		25		0	_		26			
	27 UH-7, notes 1 & 4	864 2#12, #12 G, 3/4" C	1 15 864	1696 20 2 2#12, #12 G, 3/4"	C 922 Poilor P. 1 Market	28		27					28			4
	29 UH-8, notes 1 & 4 31 UH-9, notes 1 & 4	864 2#12, #12 G, 3/4" C 864 2#12, #12 G, 3/4" C	1 15 1696	20   2   2#12, #12 G, 3/4"	" C 832 Boiler B-1, Notes 832 And 208V Gas So			31					30			
	33	, 2,3,. 3	832					33			$\neg$		34			
	35			832	832 And 208V Gas So	olenoid Valve 36		35			0		36			
	37		0	_		38		37	1000	5432	_	4432	38			
	39		0			40		39 EUH-1, 3KW, Boiler Room		3 15 543	<del>-                                     </del>		ng. 40			_
	41		2636 2806	0 2528 VA PER PHASE		42		41	1000	6983 600	5432	4432	42			5
	TOTAL CONNECTED LOAD (VA)	8060	22 24	<del> </del>	22 TOTAL CO	ONNECTED LOAD (AMPS)		TOTAL CONNECTED LOAD	) (VA) 20949		5 25 AMPS PER PHASE	25 TOTAL CONNECTED	LOAD (AMPS)			
			<u> </u>							<u> </u>						
	NOTES:  1. Provide new wiring in existing	g conduit. 2. Existing loads to r	remain are not shown. Conne	ected load indicated reflects only equipn	nent being replaced.			NOTES: 1. Provide new wi	viring in existing conduit. Provide new breake	er. 2. Existing loads to remain	n are not shown. Connected load indicated re	eflects only equipment being replaced.				
				kind. 4. Provide New Breaker. 5. Re-u		ew conduit and wiring.			demand is not expected to change. Existing (				.C load.			
	[							Г								6
	SCHEDULE FOR PANEL: Existing LP2		WHIMDED OF BOLES	ADEA CEDVED	NCDC			SCHEDULE FOR PANEL: EX		NILIMADED OF BOLES	<b>3</b> ADEA CEDICES	MACDS				
	SYSTEM: <b>208Y/120V, 3Ф, 4W</b> BUS RATING: <b>225 A</b> MINIMUM (		NUMBER OF POLES: 30 EQUIP GROUND BUS: YES	PANEL LOCATION: V				SYSTEM: <b>480Y/277V, 3</b> Φ BUS RATING: <b>125 A</b>	MINIMUM CB IC: 100kA RMS SYM	NUMBER OF POLES: 4 EQUIP GROUND BUS: Y						
	<del></del>		SOLATED GND BUS: NO		SURFACE SUPPLIED FROM:			MAINS TYPE: MCB	MAINS RATING: 100 A	ISOLATED GND BUS: N		SURFACE SUPPLIED FROM:				
		LOAD MINIMUM BRANCH B	BREAKER PHASE	BREAKER MINIMUM BRANCH		CIR.		CIR. SERVES	LOAD MINIMUM BRANCH	BREAKER PHA	SE BREAKER MINIMUM BRANCH		CIR.			
,	#	CIRCUIT & CONDUIT SIZE	P TRIP A B	C TRIP P CIRCUIT & CONDUIT	SIZE	#		#	CIRCUIT & CONDUIT S	<del>-                                    </del>	C TRIP P CIRCUIT & CONDUIT		#			
	1		0			2		1	5784 3#10 #10 C 3/4" C	11568	60	5784 AHII 2 formorly AHII 2 No	2			7
	5 See Note 2			0	See Note 2	4		3 AHU-1, formerly AHU-1, N	Note 1 5784 3#10, #10 G, 3/4" C	3 30 115	68 30 3 3#10, #10 G, 3/4" C	5784 AHU-2, formerly AHU-2, No.	) A 6			
	7			<u> </u>	See Note 2	8		7	1662	1662		3,0.	8			
	9		0			10		9 HWP-1 & 2, formerly Circ.		3 20 376	20 3 3#12, #12 G, 3/4" C	2105 HWP-3, formerly Circulating	g Pump 3 10			
	11			0		12		11 2 @ 1 HP each, Note 1	1662		3767	2105 3 HP, Note 1	12			
1	13		0		1055 555	14		13	2105	4210	<u>.                                    </u>	2105	14			
	.5		1920	30 1 2#10, #10 G, 3/4" C				<b>—</b>	ting Pump 2 2105 3#12, #12 G, 3/4" C	3 20 210	<del>-                                     </del>	See Note 2	16			8
	19			U	Provide new breake	20   18   20   20   20   20   20   20   20   2		17 3 HP, Note 1 19	2105		2105		20			
}	21		0			22		21 See Note 2			$\neg$		22			
	23			0		24		23			0		24			
,	25		0			26		25		442		442	26			
1	27		0			28		27		44	<del></del>	442 UH-1, formerly UH-1, Note	1, 3/4HP 28			
	29		0 1920	0 VA PER PHASE		30		31	1412	442	442	442	30			9
	TOTAL CONNECTED LOAD (VA)	1920	0 16	0 AMPS PER PHASE	5 TOTAL CONN	NECTED LOAD (AMPS)		33 UH-3, formerly UH-3, Not	te 1, 3/4HP	3 20 442	2		34			
								35	442		442		36			
	NOTES:  1. Provide new wiring in existing	g conduit. 2. Existing loads to r	remain are not shown. Conne	ected load indicated reflects only equipn	nent being replaced			37		0			38			
		expected to change. Existing loads to r			enc seing replaced.			39		0			40			
						<del></del>		41		10004 1000	0		42			
								TOTAL CONNECTED LOAD	D (VA) 54972	18324 183 66 66	24 18324 VA PER PHASE 6 66 AMPS PER PHASE	66 TOTAL CONNECTED	LOAD (AMPS)			11(
													/			
								NOTES: 1. Provide new wi	viring in existing conduit. Re-use existing brea	eaker. 2. Existing loads to rem	ain are not shown. Connected load indicated	d reflects only equipment being replaced				
									demand is not expected to change. Two existing							
																11
																*
				<del></del>		<del></del>				project		title			dwg. no.	
							dlba	associates Ulting engineers		NJDWSC		PANEL SCHEDULES - 2				
_							3600 Ro	oute 66, Suite 150 - #5981		HVAC &	LIGHTING REPLACEMENT				E105	
ISS	SUE FOR BID AND DCA REVIEW						ons For DLB Call:	Neptune NJ 07753  Dan Rehberg			FIELD ROAD NJ 07470	scale drawn by ch	ecked by da	te filename		
+	ISSUE DESCRIPTION	ITEM DATE ISSUE DESCRI	IPTION				oject ID: 12636	Phone: 732-318-0314		VVAINL,		scale drawn by che AS SHOWN DR PE	ecked by date date date date date date date date	te filename 12636E105	I	
	12636 - NJDWSC WSPS HVAC Upgrades\1263	6E105.dwg. 6/22/23 at 9.23 AM B	By DREHBERG - Last Printed	: 6/23/23 at 9:36 AM By Rehherg, Dan	<u></u>									Co	nfidential and Proprietary / ©DLB A	ssociates 20