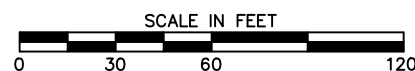


PROPOSED DRAINAGE AREAS

	DRAINAGE AREA 1
BUILDING AREA	5,488 SF
PARKING/IMPERVIOUS AREA	35,630 SF
WOODED/GRASS PERVIOUS AREA	82,012 SF
TOTAL AREA	123,130 SF

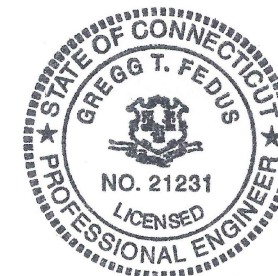


FEDUS ENGINEERING, LLC
CIVIL ENGINEERS

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Gregg T. Fedus P.E.

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Proposed Drainage Map

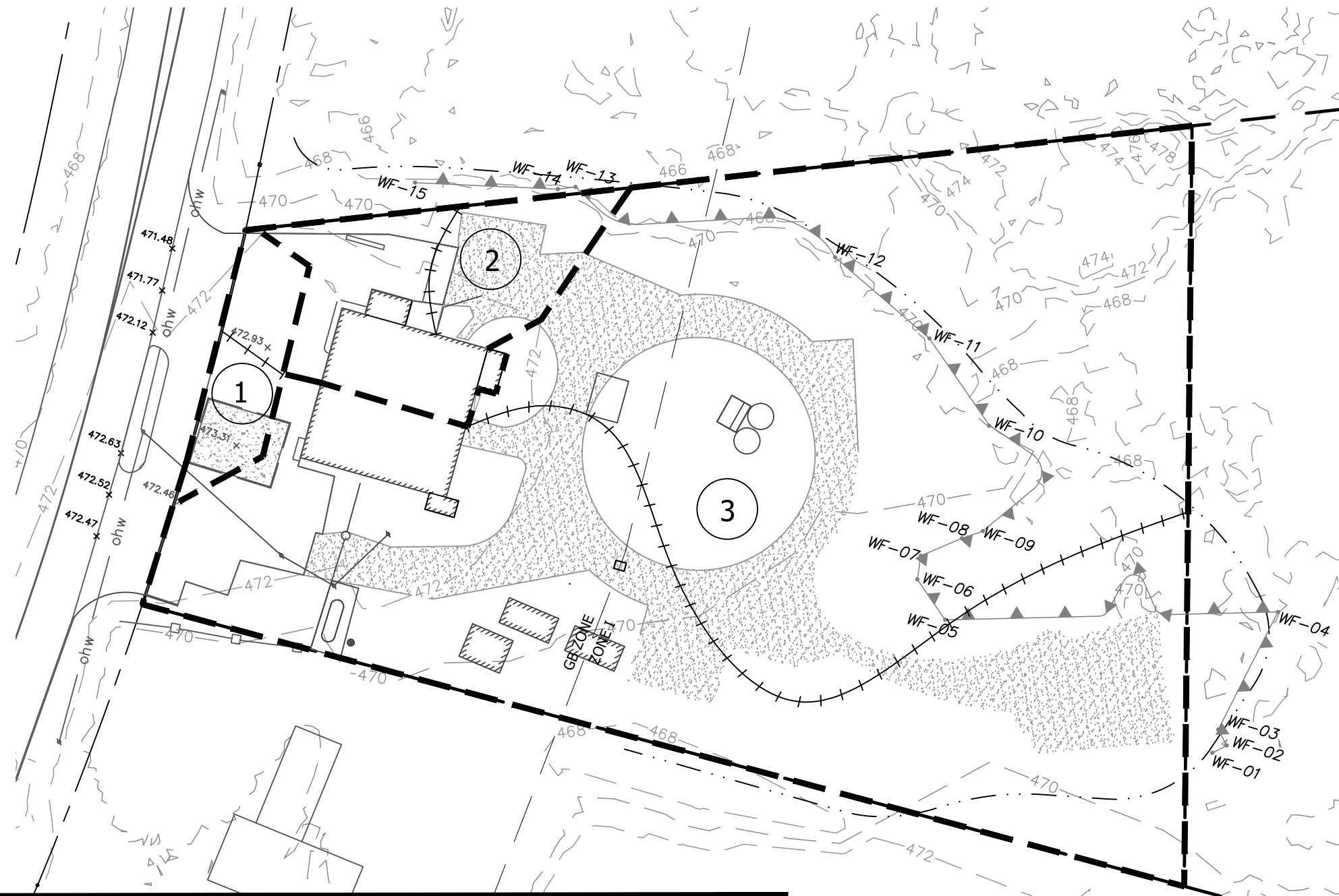
of
271 Hop River Road
Bolton, Connecticut

Prepared For:
IMS PETROLEUM, LLC
August 11, 2022

Scale: 1"=60'

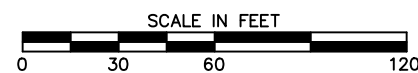
JOB NO. 21-000985

Sheet
1 of 1



EXISTING DRAINAGE AREAS

	DRAINAGE AREA 1	DRAINAGE AREA 2	DRAINAGE AREA 3	TOTAL
BUILDING AREA	0 SF	2,974 SF	4,200 SF	7,174 SF
PARKING/IMPERVIOUS AREA	3,772 SF	2,833 SF	5,118 SF	11,723 SF
WOODED/GRASS PERVIOUS AREA	0 SF	8,549 SF	95,684 SF	104,233 SF
TOTAL AREA	3,772 SF	14,356 SF	105,002 SF	123,130 SF

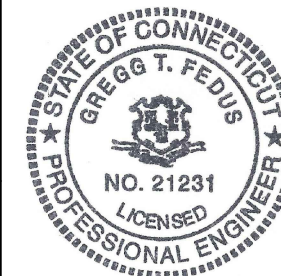


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Existing Drainage Map

of
271 Hop River Road
Bolton, Connecticut

Prepared For:
IMS PETROLEUM, LLC
August 11, 2022

Scale: 1"=60'

JOB NO. 21-000985

Sheet
1 of 1



Hydroworks Sizing Summary

271 Hop River, Bolton

08-08-2022

Recommended Size: HydroStorm HS 4i

A HydroStorm HS 4i is recommended to provide 80.0 % annual TSS removal based on a drainage area of .65 (ac) with an imperviousness of 100 % and Hartford Wso Airport, Connecticut rainfall for the Hydroworks standard particle size distribution.

The recommended HydroStorm HS 4i treats 100 % of the annual runoff and provides 85 % annual TSS removal for the Hartford Wso Airport rainfall records and Hydroworks standard particle size distribution.

The HydroStorm has a headloss coefficient (K) of 1.04. Since a peak flow was not specified, headloss was calculated using the full pipe flow of 4.57 (ft³/s) for the given 15 (in) pipe diameter at .5% slope. The headloss was calculated to be 3 (in) based on a flow depth of 15 (in) (full pipe flow).

This summary report provides the main parameters that were used for sizing. These parameters are shown on the summary tables and graphs provided in this report.

If you have any questions regarding this sizing summary please do not hesitate to contact Hydroworks at 888-290-7900 or email us at support@hydroworks.com.

The sizing program is for sizing purposes only and does not address any site specific parameters such as hydraulic gradeline, tailwater submergence, groundwater, soils bearing capacity, etc. Headloss calculations are not a hydraulic gradeline calculation since this requires a starting water level and an analysis of the entire system downstream of the HydroStorm .

TSS Removal Sizing Summary

Hydroworks Hydrodynamic Separator-Sizing Program - HydroStorm

File Product Units CAD Video Help

General Dimensions Rainfall Site TSS PSD TSS Loading Quantity Storage By-Pass Custom CAD Video Other

Site Parameters
 Area (ac) .65
 Imperviousness (%) 100

Units
☒ U.S.
☐ Metric

Rainfall Station
 Hartford Wso Airport Connecticut
 1954 To 2001 Rainfall Timestep = 60 min.

Project Title (2 lines)
 271 Hop River, Bolton

NJCAT Lab Testing ☐ Post Treatment Recharge

Outlet Pipe
 Diam. (in) 15 Slope (%) .5
 Peak Design Flow (ft3/s)

HydroStorm Annual Sizing Results

Model #	Qlow (ft3/s)	Qtot (ft3/s)	Flow Capture (%)	TSS Removal (%)
HS 3	.9	4.6	99 %	77 %
HS 4	1.5	4.6	100 %	85 %
HS 5	1.8	4.6	100 %	91 %
HS 6	2.2	4.6	100 %	95 %
HS 7	3	4.6	100 %	96 %
HS 8	3.9	4.6	100 %	97 %
HS 10	4.6	4.6	100 %	99 %
HS 12	4.6	4.6	100 %	99 %

Particle Size Distribution

Size (um)	%	SG
20	35	2.65
35	10	2.65
63	5	2.65
88	10	2.65
125	15	2.65
200	15	2.65
325	5	2.65
750	5	2.65

Note: Results vary significantly based on particle size distribution

Simulate

TSS Particle Size Distribution

Hydroworks Hydrodynamic Separator-Sizing Program - HydroStorm

File Product Units CAD Video Help

General Dimensions Rainfall Site TSS PSD TSS Loading Quantity Storage By-Pass Custom CAD Video Other

TSS Particle Size Distribution

Size (um)	%	SG
20	35	2.65
35	10	2.65
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88	10	2.65
125	15	2.65
200	15	2.65
325	5	2.65
750	5	2.65
*		

Notes:

1. To change data just click a cell and type in the new value(s)
2. To add a row just go to the bottom of the table and start typing.
3. To delete a row, select the row by clicking on the first pointer column, then press delete
4. To sort the table click on one of the column headings

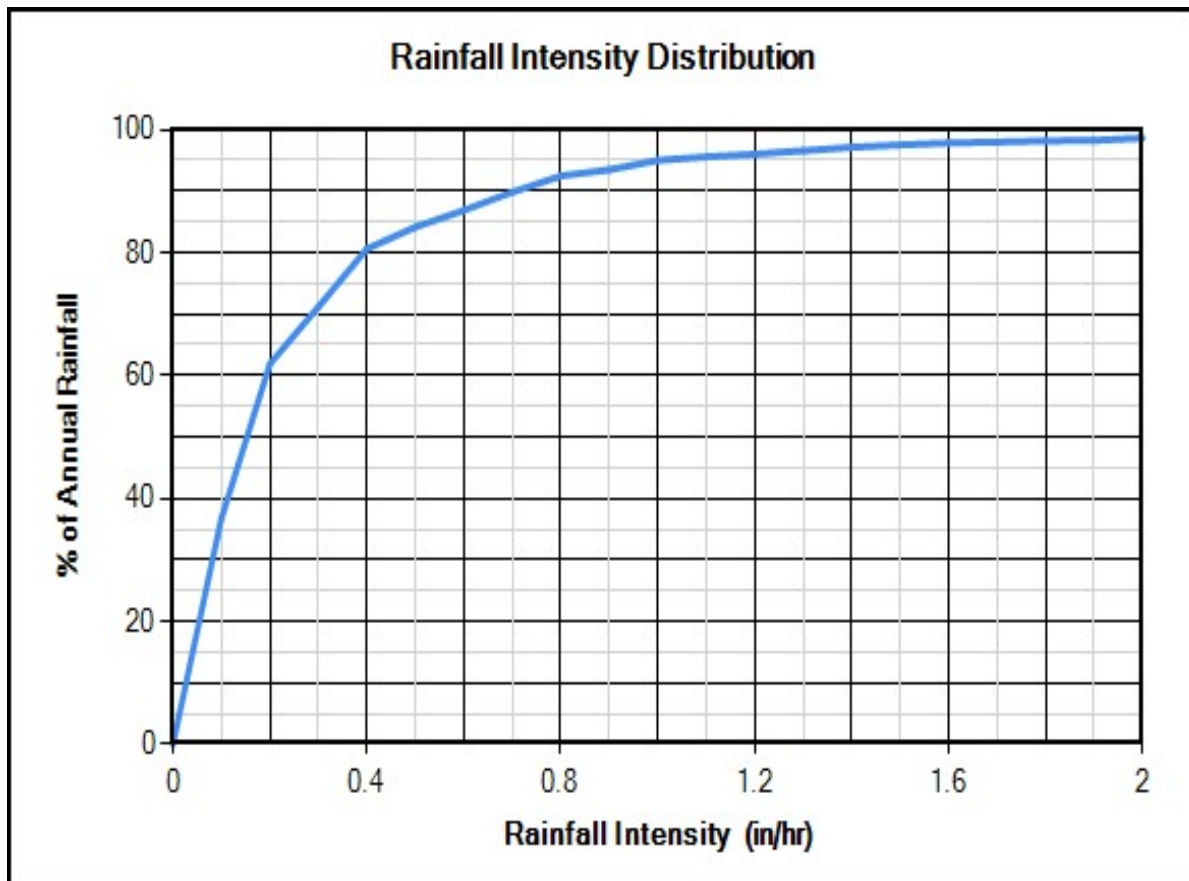
TSS Distributions

☒ Standard Design
☐ NJDEP
☐ OK110
☐ Toronto
☐ Ontario Fine
☐ Calgary Forebay
☐ Kitchener
☐ User Defined

Clear

You must select a particle size distribution for TSS to simulate TSS removal

Water Temp (F) 68



Site Physical Characteristics

Hydroworks Hydrodynamic Separator Sizing Program - HydroStorm

File Product Units CAD Video Help

General Dimensions Rainfall Site TSS PSD TSS Loading Quantity Storage By-Pass Custom CAD Video Other

Catchment Parameters

Width (ft) Imperv. Mannings n Maintenance Frequency (months)

Perv Mannings n

Slope (%) Imp. Depress. Storage (in)

Perv. Depress. Storage (in)

Daily Evaporation (in/day)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	0	0.1	0.1	0.15	0.15	0.15	0.1	0.1	0	0

Infiltration

Max. Infiltration Rate (in/hr)

Min. Infiltration Rate (in/hr)

Infiltration Decay Rate (1/s)

Infiltration Regen. Rate (1/s)

Catch Basins

of Catch basins

Controlled Roof Runoff

Roof Runoff (ft3/s)

Resets all parameters excluding input catchment width.

Dimensions And Capacities

Hydroworks Hydrodynamic Separator-Sizing Program - HydroStorm

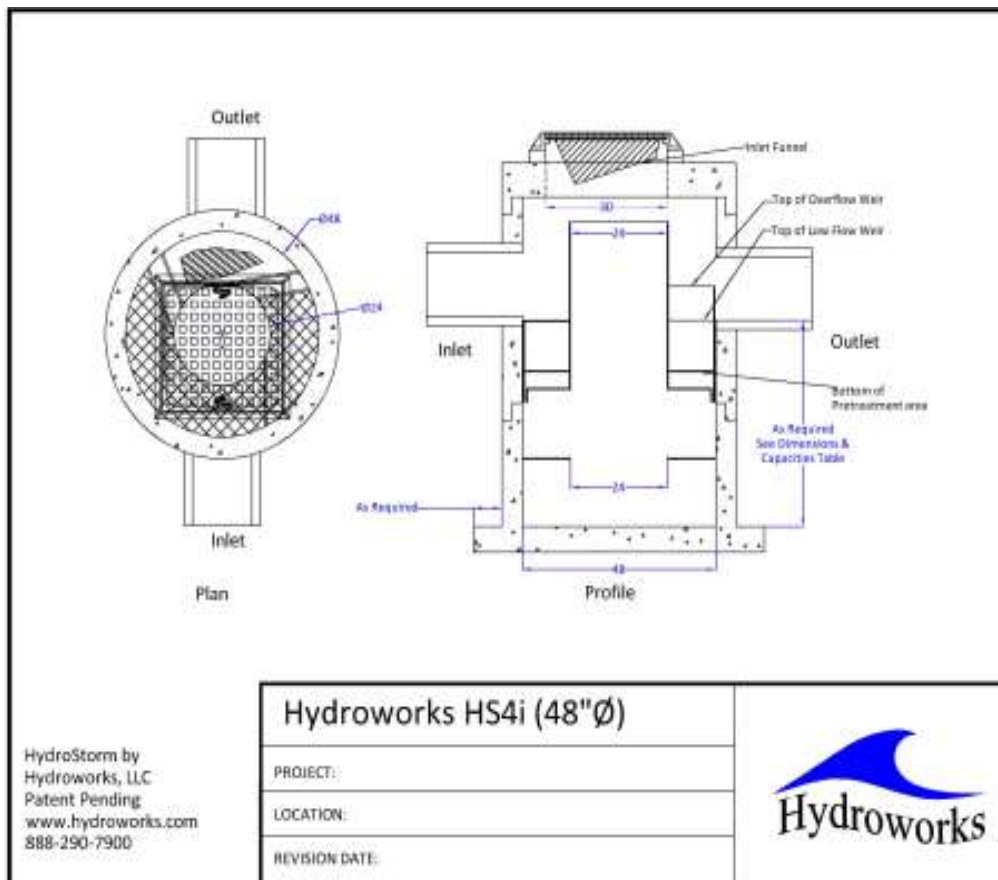
File Product Units CAD Video Help

General Dimensions Rainfall Site TSS PSD TSS Loading Quantity Storage By-Pass Custom CAD Video Other

Dimensions and Capacities					
Model	Diam. (ft)	Depth (ft)	Float. Vol. (gal)	Sediment Vol. (ft ³)	Total Vol. (gal)
HS 3	3	3.5	49	15	185
HS 4	4	4	101	30	376
HS 5	5	5	170	64	734
HS 6	6	6	275	113	1269
HS 7	7	6.5	416	164	1871
HS 8	8	7	622	222	2632
HS 10	10	9	1143	465	5288
HS 12	12	11	1893	839	9306

Depth = Depth from outlet invert to inside bottom of tank

Generic HS 4i CAD Drawing



TSS Buildup And Washoff

Hydroworks Hydrodynamic Separator-Sizing Program - HydroStorm

File Product Units CAD Video Help

General Dimensions Rainfall Site TSS PSD TSS Loading Quantity Storage By-Pass Custom CAD Video Other

TSS Buildup

☐ Power Linear
☒ Exponential
☐ Michaelis-Menton

TSS Washoff

☒ Power-Exponential
☐ Rating Curve (no upper limit)
☐ Rating Curve (limited to buildup)

Street Sweeping

Efficiency (%) 30
Start Month May
Stop Month Sep
Frequency (days) 30
Available Fraction .3

Soil Erosion

☐ Add Erosion to TSS

Reset to Default Values

TSS Buildup Parameters

Limit (lb/ac) 25
Coeff (lb/ac) 60
Exponent .5

TSS Washoff Parameters

Coefficient 3
Exponent 1.1

TSS Buildup

☒ Based on Area
☐ Based on Curb Length

Upstream Quantity Storage

Hydroworks Hydrodynamic Separator-Sizing Program - HydroStorm

File Product Units CAD Video Help

General Dimensions Rainfall Site TSS PSD TSS Loading Quantity Storage By-Pass Custom CAD Video Other

Quantity Control Storage

	Storage (ft3)	Discharge (ft3/s)
▶	0	0
✱		

Notes:

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Clear

Other Parameters

The screenshot displays the 'Hydroworks Hydrodynamic Separator Sizing Program - HydroStorm' window. The 'Other' tab is selected in the top navigation bar. The interface includes a menu bar (File, Product, Units, CAD, Video, Help) and a toolbar with icons for file operations. The 'Other' tab contains several parameter groups:

- Scaling Law:**
 - ☒ Peclet Scaling based on diameter x depth
 - ☐ Peclet Scaling based on surface area (diameter x diameter)
- TSS Removal Extrapolation:**
 - ☒ Extrapolate TSS Removal for flows lower than tested
 - ☐ No TSS Removal extrapolation for flows lower than tested
 - ☐ No TSS Removal extrapolation for lower flows or inter-event periods
- Lab Testing:**
 - ☒ Use NJDEP Lab Testing Results
 - ☐ Use ETV Canada Lab Testing Results
- Oil / Sediment Storage:**
 - ☒ Oil Spill Storage in Pretreatment Area
 - ☐ Sediment Storage in Pretreatment Area
 - ☐ 50% Oil Spill / 50% Sediment Storage in Pretreatment Area
- TSS Removal Results:**
 - ☒ Required TSS Removal
 - ☐ Choose Model #
- TSS Removal Required:**
 - TSS Removal (%) Enter required TSS Removal (%)

Flagged Issues

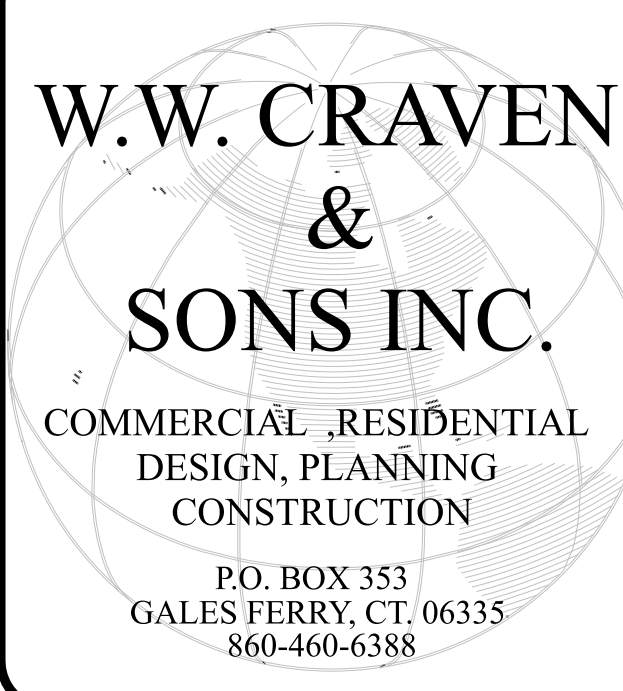
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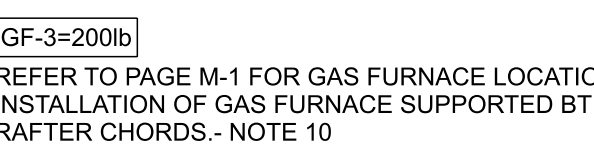
Hydroworks Sizing Program - Version 5.6

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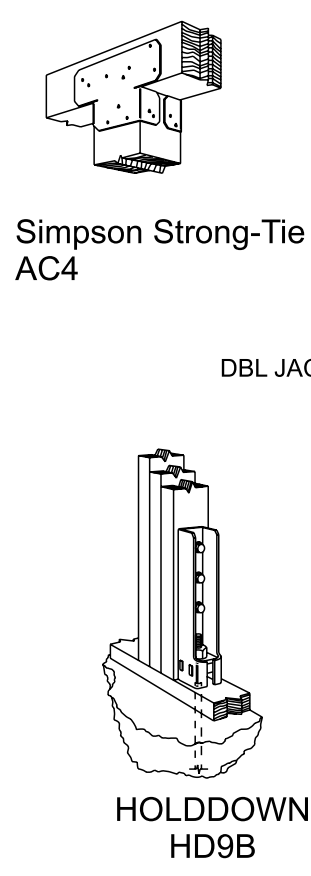


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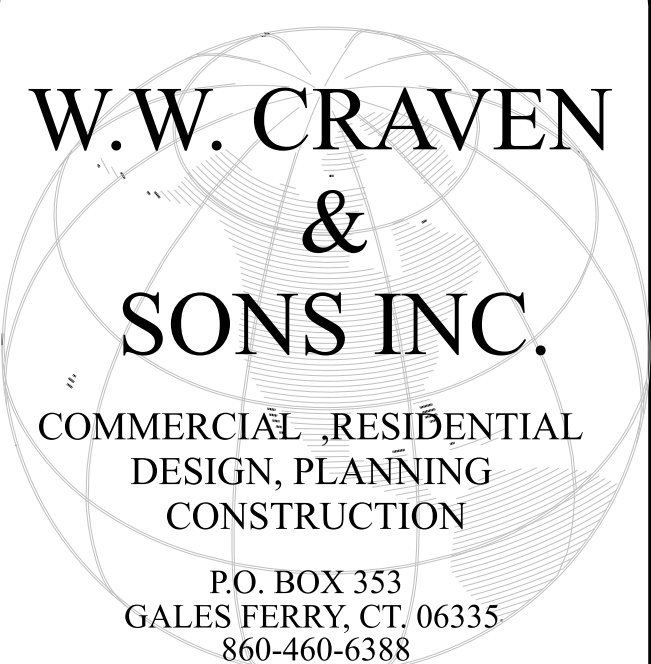
THESE PLANS HAVE BEEN PREPARED TO MEET TOP PROFESSIONAL STANDARDS AND PRACTICES. HOWEVER, BUILDING CODE REQUIREMENTS VARY WITH LOCATION AND CHANGE TIME TO TIME BEFORE STARTING CONSTRUCTION THE CONTRACTOR SHOULD CHECK AND BE RESPONSIBLE FOR ANY DIMENSIONS AND OTHER DETAILS, AND SHOULD REVIEW THE PLANS TO INSURE THEY MEET CURRENT REQUIREMENTS

CONSTRUCTION SET

P.O. BOX 353
GALES FERRY, CT. 06335
860-460-6388



LETTER	NOTE
	CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16 INCH CROWN AND 1-1/8 INCH LENGTH FOR 1/2 INCH SHEATHING AND 1-1/2 INCH LENGTH FOR 2/3X2 INCH SHEATHING. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED). CASHING OR FINISH NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.
	FINISH SUPPORTS AT 24 INCHES ON PANEL EDGES, 48 INCHES AT INTERMEDIATE SUPPORTS. FINISH NAILS SPACING SHALL BE 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.
	1/2 INCH ROOF SHEATHING APPLICATIONS, 8D NAILS ARE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.
	M STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16 INCH.
	1/2 INCH SHEATHING SHALL BE FASTENED WITH 6 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.
O	PASTERS SPACED 4 INCHES OC AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND VINYL SHEATHING.
P	PASTERS SPACED 4 INCHES OC AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.



GENERAL STRUCTURAL NOTES

(APPLIES UNLESS NOTED OTHERWISE)

GENERAL:

- ALL CONSTRUCTION SHALL CONFORM TO 2016 STATE OF CONNECTICUT BUILDING CODES.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OR SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. THESE MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SCAFFOLDING, BRACING AND SHORING. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS. THE STRUCTURAL ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION, NOR WILL THE STRUCTURAL ENGINEER, BE RESPONSIBLE FOR CONSTRUCTION SITE SAFETY, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERE TO.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATE SITE CONDITIONS WITH THE DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES AND OMISSIONS SHALL BE RESOLVED WITH THE ENGINEER. DO NOT USE SCALED DIMENSIONS.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOFS SO AS NOT TO EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.
- WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. WHEN NO SPECIFIC DETAIL IS SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, FOR BIDDING PURPOSES, WHERE ANY MEMBER OR STRUCTURAL ELEMENT IS SHOWN BUT NOT CALLED OUT ON THE PLANS OR DETAILS, THE LARGEST SIMILAR MEMBER OR ELEMENT USED IN THE PROJECT SHALL BE UTILIZED.
- REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND CIVIL DRAWINGS FOR LOCATION AND DETAILS OF BLOCKOUTS, INSERTS AND OPENINGS, CURBS, EQUIPMENT BASES AND PADS, SITE WORK ITEMS, ETC. AND DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
- APPROVED ELEVATION OPTIONS ARE FOR THE CONTRACTOR'S CONVENIENCE. IF AN OPTION IS CHOSEN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY AND COORDINATION OF ALL DETAILS.
- ALL DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS, WHETHER SPECIFICALLY INDICATED OR NOT. TYPICAL DETAILS MAY OR MAY NOT BE CUT ON THE DRAWINGS, BUT SHALL APPLY UNLESS NOTED OTHERWISE.
- WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.
- ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THAT STATE.
- DESIGN LOADS:

LOADS

ROOF SNOW LOAD = 30 PSF SNOW LOAD
ROOF LIVE LOAD = 20 PSF SNOW LOAD
ROOF DEAD LOAD = 15 PSF
ROOF UPLIFT WIND LOAD = 35 PSF (NET)
ULTIMATE DESIGN WIND SPEED: 140 MPH
NOMINAL DESIGN WIND SPEED: 116 MPH
IMPORTANCE FACTOR: 1.0
BUILDING RISK FACTOR: II
WIND EXPOSURE: "C"
ENCLOSURE CLASSIFICATION: ENCLOSED
INTERNAL PRESSURE COEFFICIENT: 0.73
COMPONENTS AND CLADDING WIND PRESSURE: 52 PSF
FLOOR LIVE LOAD = 100 PSF
SIDEWALK LIVE LOAD = 250 PSF
HOUSEKEEPING PADS LIVE LOAD = 250 PSF

FOUNDATIONS:

- DESIGN SOIL BEARING PRESSURE = 2800 PSF
ALL EARTHWORK SHALL CONFORM TO THE REQUIREMENTS OF THE SOILS REPORT.
ALL CONSTRUCTION SHALL COMPLY WITH THE RECOMMENDATIONS OF THE SOILS REPORT. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR ANY GEOTECHNICAL ASPECTS OF THIS PROJECT.
- CONTRACTOR SHALL EMPLOY A REGISTERED SOILS ENGINEER TO PERFORM NECESSARY TESTING AND INSPECTIONS FOR QUALITY CONTROL AND TO ENSURE THAT THE REQUIREMENTS OF THE SOILS REPORT ARE COMPLIED WITH. TEST REPORTS SHALL BE SUBMITTED DIRECTLY TO THE ENGINEER FROM THE SOILS ENGINEER, WITH COPY TO CONTRACTOR. INCLUDE THE FOLLOWING INFORMATION IN THE REPORTS:
- TEST REPORT ON BORROWED MATERIALS
- VERIFICATION OF EACH FOOTING SUBGRADE
- FIELD DENSITY TEST REPORTS
- ONE OPTIMUM MOISTURE-MAXIMUM DENSITY CURVE FOR EACH TYPE OF SOIL ENCOUNTERED.
- FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, EXISTING FOUNDATIONS, ETC., ENCOUNTERED DURING SITE CLEARING OR EXCAVATION SHALL BE BROUGHT TO THE ATTENTION OF THE SOILS ENGINEER IMMEDIATELY.
- ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED AS DIRECTED BY THE SOILS ENGINEER.
- SLOPE ALL EXTERIOR FINISHED GRADES AWAY FROM THE BUILDINGS TO ENSURE NO PONDING OF WATER OCCURS AROUND BUILDINGS.
- SOIL ENGINEER SHALL INSPECT ALL FOUNDATION EXCAVATIONS PRIOR TO CONCRETE POURING AND OBSERVE ALL REQUIRED MOISTURE CONDITIONS OF UNDER-SLAB AREA.

NOTES:

- ALL CONCRETE TO BE 3500 PSI AT 28 DAYS
- ALL REINFORCING TO MEET ASTM A615/6040
- VERIFY SUPERSTRUCTURE AS REQUIRED BY LOCAL WIND AND SNOW LOADS
- BOTTOM OF FOOTING TO BE ON UNDISTURBED OR PROPERLY COMPACTED SOIL AT A MIN 42" BELOW FROST LINE
- C.J. = CONTROL JOINT, CUT 1" DEEP AND FILLED WITH SEALANT
- ALL BACKFILL MATERIALS MUST BE COMPACTED IN 8" LIFTS TO MEET 95% COMPACTED
- FOUNDATION DESIGNED FOR SOIL WITH ALLOWABLE BEARING PRESSURE OF 2500-2800 PSF
- G.C. OR OWNER TO PROVIDE SOIL REPORT FOR PROJECT LOCATION TO ENGINEER FOR REVIEW

CAST-IN-PLACE CONCRETE:

- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- CONCRETE SHALL BE READY MIXED CONCRETE IN ACCORDANCE WITH ASTM C94. MINIMUM 28 DAY COMPRESSIVE STRENGTH SHALL BE 4000 PSI (DESIGNED FOR 2500 PSI U.N.O.) EXCEPT AS FOLLOWS:

CURBS AND SIDEWALKS 3,500 PSI
- CEMENT SHALL CONFORM TO ASTM C150, TYPE II. AGGREGATE PER ASTM C33. MAXIMUM 3" SLUMP FOR SLABS ON GRADE, 4" FOR OTHER CONCRETE. CONCRETE CONTAINING SUPERPLASTICIZING ADMIXTURE SHALL HAVE FIELD-VERIFIED 3" MAXIMUM SLUMP PRIOR TO ADDING ADMIXTURE AND 8" MAXIMUM SLUMP AT PLACEMENT. MIX DESIGNS SHALL BE DESIGNED BY THE CONCRETE PRODUCTION FACILITY IN ACCORDANCE WITH ACI 301 AND REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- CONCRETE SHALL BE FREE OF CHLORIDE. NO FLY ASH ADMIXTURES SHALL BE USED IN CONCRETE WHEN USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE. WHEN USED, FLY ASH SHALL CONFORM TO ASTM C618, CLASS F. FLY ASH SHALL NOT REPLACE MORE THAN 15% OF CEMENT BY WEIGHT.
- PROVIDE SLEEVES FOR UTILITY OPENINGS IN CONCRETE BEFORE PLACING CONCRETE. DO NOT CUT ANY CONFLICTING REINFORCING.
- NO CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL BE INSTALLED WITHOUT APPROVAL OF THE ENGINEER.
- CONCRETE SHALL NOT BE DROPPED MORE THAN FIVE FEET VERTICALLY WITHOUT USE OF TREMIES.
- CONCRETE FOOTINGS AND PADS MAY BE POURED AGAINST NEAT EXCAVATIONS PROVIDED THE REQUIRED CONCRETE COVERAGE FOR REINFORCING IS MAINTAINED.
- MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND UNDERFLOOR DUCTS, ETC. CAST CLOSURE POUR AROUND COLUMNS AFTER DEAD LOAD IS APPLIED UNLESS APPROVED OTHERWISE BY WRITING BY THE ENGINEER. ALL CONCRETE SLABS ON GRADE SHALL HAVE CONTROL JOINTS, KEYED OR SAW CUT SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 400 SQUARE FEET. KEYED CONSTRUCTION JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING. ALL OTHER JOINTS MAY BE SAW CUT.
- CONCRETE WHICH HAS CONTAINED WATER FOR MORE THAN 90 MINUTES (60 MINUTES IF AIR TEMPERATURE EXCEEDS 85 DEGREES) SHALL NOT BE USED. RETEMPERING OF CONCRETE AFTER INITIAL SET HAS OCCURRED IS NOT PERMITTED.
- CURE EXPOSED CONCRETE FOR A MINIMUM OF 7 DAYS IN ACCORDANCE WITH ACI 301 PROCEDURES IN ORDER TO PREVENT CRACKING. CURE WITH CURING AND SEALING COMPOUND, MOIST CURING, MOISTURE-RETAINING COVER CURING, OR COMBINATIONS THEREOF.
- CONCRETE COMPRESSIVE STRENGTH AND SLUMP SHALL BE TESTED PER ASTM C31, C39, AND C143. PROVIDE 3 CYLINDERS PER TEST FOR EACH DAY'S CONCRETE PLACEMENT OR AS DIRECTED BY THE ENGINEER. TEST ONE CYLINDER AT 7 DAYS AND TWO AT 28 DAYS. TESTING SHALL BE DONE BY A QUALIFIED TESTING LABORATORY.

REINFORCING STEEL:

- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 (Fy=60 KSI) DEFORMED BARS FOR ALL BARS #4 AND LARGER. ASTM A615, GRADE 40 (Fy=40 KSI) DEFORMED BARS FOR ALL BARS #3 AND SMALLER. REINFORCING TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60 (Fy=60 KSI) LOW ALLOY DEFORMED BARS. WELDED WIRE FABRIC PER ASTM A185, WIRE PER ASTM A82. WELDING OF REINFORCING SHALL BE ACCORDING TO AWS D1.4. NO TACK WELDING OF REINFORCING BARS ALLOWED.
- ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE LATEST EDITIONS OF ACI 318 AND THE CRSI "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION", AND AS MODIFIED BY THE DRAWINGS. ALL REINFORCING BARS BENDS SHALL BE MADE COLD.
- ALL REINFORCING STEEL INCLUDING WELDED WIRE FABRIC IN SLAB ON GRADE, SHALL BE ACCURATELY PLACED AND SUPPORTED BY GALVANIZED METAL CHAIRS, SPACERS OR HANGERS. PROVIDE THE FOLLOWING MINIMUM CLEAR CONCRETE COVERAGE: CAST AGAINST AND PERMANENTLY EXPOSED
TO EARTH 3"
EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER 2"
#5 AND SMALLER 1 1/2"
ALL OTHERS PER LATEST EDITION OF ACI 318
- UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE SHALL BE CLASS "B" TENSION LAP SPLICES (2-0" MINIMUM) PER THE LATEST EDITION OF ACI 318. STAGGER ALTERNATE SPLICES A MINIMUM OF ONE LAP LENGTH. LAP WELDED WIRE FABRIC SO THAT THE OVERLAP BETWEEN OUTERMOST CROSS WIRES OF EACH SHEET IS NOT LESS THAN THE CROSS WIRE SPACING PLUS 2 INCHES. ALL SPLICE LOCATIONS SUBJECT TO APPROVAL AND SHALL BE MADE ONLY WHERE INDICATED ON THE DRAWINGS. EXTEND ALL HORIZONTAL REINFORCING CONTINUOUS AROUND CORNERS AND INTERSECTIONS OR PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF FOOTINGS AND WALLS.
- REINFORCING BAR SPACINGS GIVEN ARE MAXIMUM ON CENTERS. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SKEW HOOKS AS REQUIRED FOR CONCRETE COVER. SECURELY TIE ALL BARS IN POSITION BEFORE PLACING CONCRETE.
- SPLICED BARS SHALL BE PLACED AT THE SAME EFFECTIVE DEPTH UNLESS NOTED OTHERWISE. REINFORCING BARS NOTED "CONTINUOUS" OR WITH LENGTH NOT SHOWN SHALL BE FULLY CONTINUOUS AND SPLICED ONLY AS SHOWN, OR WHERE APPROVED BY THE ENGINEER.
- REINFORCING BAR HOOKS SHALL BE STANDARD ACI HOOKS UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL:

- STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM WITH THE LATEST AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDING AND BRIDGES", AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS-ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN", INCLUDING COMMENTARY, AND APPLICABLE PROVISIONS OF AWS "STRUCTURAL WELDING CODE". PARAGRAPH 4.2.1. OF THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" IS HEREBY MODIFIED BY DELETION OF THE FOLLOWING SENTENCE: "THIS APPROVAL CONSTITUTES THE OWNER'S ACCEPTANCE OF ALL RESPONSIBILITY FOR THE DESIGN ADEQUACY OF ANY DETAIL CONFIGURATION OF CONNECTIONS DEVELOPED BY THE FABRICATOR AS PART OF HIS PREPARATION OF THESE SHOP DRAWINGS."
- STRUCTURAL SHAPES AND PLATES SHALL BE ASTM A36 (Fy = 36 KSI). STRUCTURAL TUBE SHAPES SHALL BE ASTM A500, GRADE B (Fy = 46 KSI). STEEL PIPE SHALL BE ASTM A53, TYPES E OR S, GRADE B (Fy = 35 KSI).
- BOLTS SHALL BE ASTM A325N. ALL HIGH-STRENGTH BOLTS SHALL BE TIGHTENED TO THE SNUG-TIGHT CONDITION AS DEFINED BY AISC UNLESS NOTED OTHERWISE.
- ANCHOR BOLTS AND PLAIN THREADED BARS AND ANCHORS SHALL BE ASTM A36 OR A307, GRADE A.
- BOLTS, ANCHORS BOLTS, EXPANSION BOLTS, ETC., SHALL BE INSTALLED WITH STEEL WASHERS.
- WELDING ELECTRODES SHALL CONFORM TO AWS D1.1, GRADE E70XX. E80 SERIES ELECTRODES SHALL BE USED FOR ASTM A706 REINFORCING BARS. ALL WELDING SHALL BE DONE BY WELDERS HOLDING VALID CERTIFICATES ISSUED BY AN ACCEPTED TESTING AGENCY AND HAVING CURRENT EXPERIENCE IN TYPE OF WELDS SHOWN ON THE DRAWINGS OR NOTES. ALL WELDING PER AMERICAN WELDING SOCIETY STANDARDS. ALL WELDS ON DRAWINGS ARE SHOWN AS SHOP WELDS. CONTRACTOR MAY SHOP WELD OR FIELD WELD AT THEIR DISCRETION. SHOP WELDS OR FIELD WELDS SHALL BE SHOWN ON SHOP DRAWINGS. FULL PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY.
- BEAMS, COLUMNS AND BRACES SHALL NOT BE SPLICED WITHOUT PRIOR APPROVAL OF STRUCTURAL ENGINEER.
- DRYPACK FOR COLUMN BASE PLATES AND BEARING PLATES SHALL BE FIVE STAR GROUT OR AN EQUAL NON-METALLIC SHRINKAGE-RESISTANT GROUT.
- PROVIDE FABRICATOR'S STANDARD RUST-INHIBITING PRIMER SHOP PAINT FOR ALL STEEL SURFACES EXCEPT SURFACES ENCASED IN CONCRETE, OR TO RECEIVE SPRAY-APPLIED FIREPROOFING.
- MILL CERTIFICATION OR ICBO EVALUATION SERVICE NUMBER SHALL BE SUBMITTED TO ENGINEER / ENGINEER FOR REVIEW AND THEN TO CITY BUILDING DEPARTMENT PRIOR TO INSTALLING STRUCTURAL STEEL.

SPECIAL INSPECTION: IN ACCORDANCE WITH BELOW

SOILS AND FOUNDATIONS

ITEM	AGENCY	SCOPE
SHALLOW FOUNDATIONS	3	OBSERVE BEARING MATERIAL AT BOTTOM OF FOOTING AND SLAB ARE CONSISTENT WITH DESIGN REQUIREMENTS OF 2800 lbs. per Sq.Ft.
BACK FILL-COMPACTION	3	VERIFY MATERIALS.FIELD VERIFY BACKFILL COMPACTION MIN 95%
BACK-FILL SUB-SLAB-SIDEWALK	3	VERIFY MATERIALS.FIELD VERIFY BACKFILL COMPACTION MIN 95%

CAST-IN-PLACE CONCRETE

ITEM	AGENCY	SPECIAL INSPECTION C=CONTINUOUS P=PERIODIC N=NONE	SCOPE
MIX DESIGN	1	N	REVIEW CONCRETE BATCH TICKETS AND VERIFY CONCRETE PLACEMENT IN THE FIELD IS THE SAME AS APPROVED MIX DESIGN.
CUTTING AND PROTECTION	2	Y	REVIEW WHEN PRESENT FOR INSPECTION AND/OR TESTING AND TEMPERATURE (ASTM C-1064). PROVIDE A MINIMUM OF TWO(2)SAMPLES AND TESTS OF THE CONCRETE
CONCRETE SAMPLING & TESTING	2	Y	TEST CONCRETE COMPRESSIVE STRENGTH(ASTM-C31 AND C-39),SLUMP(ASTM C-143),AIR CONTENT (ASTM-C-231 ORC-173) VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED
CONCRETE PLACEMENT	2	N	VERIFY THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION.
ANCHOR BOLTS/RODS	1-2	Y	OBSERVE SIZE, POSITIONING AND EMBEDMENT OF ANCHOR BOLTS/RODS. VERIFY BARS ARE ADEQUATELY TIED AND SUPPORTED ON CHAIRS OR BOLSTERS.FOOTING AND WALLS INSPECT A MINIMUM OF 50% FORMOIL AND OTHER DELETERIOUS MATERIAL.OBSERVE BAR LAPS AND MECHANICAL SPLICES.
REINFORCEMENT INSTALLATION	1-2	Y	OBSERVE SIZE SPACING, COVER,POSITIONING AND GRADE OF REINFORCING STEEL.VERIFY THAT THE REINFORCING BARS ARE FREE OF
MATERIAL CERTIFICATION	1	Y	REVIEW CERTIFICATE OF CONFORMANCE AND VERIFY IN FIELD, THE USE OF THE SPECIFIED MATERIAL

STRUCTURAL STEEL

ITEM	AGENCY	SPECIAL INSPECTION C=CONTINUOUS P=PERIODIC N=NONE	SCOPE
MATERIAL CERTIFICATION	1-2		REVIEW CERTIFICATES OF CONFORMANCE AND VERIFY USE OF SPECIFIED MATERIAL IN-FIELD
BOLTING/FASTENING/SPECIALTY HARDWARE	2	N	REVIEW FASTENERS IN ACCORDANCE TO MFR. SPECIFICATIONS AND DESIGN.
-	2		OBSERVE CALIBRATION PROCEDURES
-	2		VERIFY STORAGE AND CONDITION OF BOLTS
-	2		VERIFY MATERIAL IDENTIFICATION MARKINGS.
-	2		MONITOR INSTALLATION OF COLTS AND OBSERVE SNUG-TIGHT CONDITION. VERIFY 100%
-	2		FULLY TENSIONED VERIFICATION 100%
STRUCTURAL DETAILS	1-2	N	REVIEW FOR COMPLIANCE WITH CONTRACT DRAWINGS AND APPROVED SHOP DRAWINGS IN THE SHOP AND IN THE FIELD
WELDING	1-2	N	REVIEW FOR COMPLIANCE WITH CONTRACT DRAWINGS AND APPROVED SHOP DRAWINGS IN THE SHOP AND IN THE FIELD. VERIFY STATE CERTIFIED APPLICATOR

WOOD CONSTRUCTION

ITEM	AGENCY	SPECIAL INSPECTION C=CONTINUOUS P=PERIODIC N=NONE	SCOPE
CONNECTIONS	2	P	VERIFY SIZE PLACEMENT AND INSTALLATION OF METAL ANCHORS AND CONNECTIONS
STRUCTURAL DETAILS	2	P	REVIEW FOR COMPLIANCE WITH CONTRACT DRAWINGS AND SUBMITTALS.
PERMANENT TRUSS BRACING	2	P	VERIFY TRUSSES AND BRACING ARE IN ACCORDANCE TO THE SHOP DRAWINGS
PREFABRICATED WOOD TRUSS	2	P	OBSERVE THE PERMANENT TRUSS BRACING INSTALLED IN THE FIELD.
DIAPHRAGM	2	P	OBSERVE INSTALLATION OF WOOD TRUSSES
MATERIAL GRADING	2	P	VERIFY INSTALLATION OF CONNECTION HARDWARE AS SPECIFIED.
DIAPHRAGM	2	P	VERIFY SHEATHING TYPE AND THICKNESS VERIFY INSTALLATION OF BLOCKING AND NAILING PATTERNS.
MATERIAL GRADING	2	N	VERIFY THAT THE STRUCTURAL LUMBER IS STAMPED WITH THE APPROPRIATE MATERIAL GRADING AS SPECIFIED

FIRE AREAS

ITEM	AGENCY	SCOPE
SMOKE /DRAFT/FIRE BARRIER AND WALL	2	VERIFY RATING, LABELED PER RATING. PENETRATIONS AND SEALANT.
DOORS	2	VERIFY SIZE PLACEMENT AND INSTALLATION OF FIRE RATED ASSEMBLY AND HARDWARE
AIR BARRIER/WALL FILL MATERIAL	2	VERIFY TYPE AND THICKNESS.VERIFY BEFORE C.O.

NOTE:

ALL PLANS ARE DRAWN TO CONFORM TO ONE OR MORE OF THE INDUSTRIES MAJOR NATIONAL BUILDING STANDARDS. DUE TO THE VARIETY OF LOCAL BUILDING REGULATIONS SUCH AS THEIR OWN CODES, ZONING REQUIREMENTS, SNOW LOADS, SEISMIC ZONES, ETC., YOUR PLANS MAY NEED TO BE MODIFIED TO COMPLY TO THESE REQUIREMENTS. BEFORE STARTING CONSTRUCTION CONSULT WITH LOCAL BUILDING AUTHORITIES TO ENSURE COMPLIANCE WITH ALL LOCAL, CITY, STATE, AND NATIONAL CODES AND REGULATIONS.

PLYWOOD:

- ALL PLYWOOD SHALL CONFORM TO PRODUCT STANDARD 1-83 OR APA PRP-108 AND HAVE AN EXTERIOR OR EXPOSURE 1 DURABILITY CLASSIFICATION, AND SHALL BEAR THE STAMP OF AN ICBO APPROVED TESTING AGENCY. LAY UP ROOF WITH LONG DIMENSION PERPENDICULAR TO SUPPORTS AND STAGGER JOINTS. AT ROOFS, USE PLYCLIPS AT MIDSPAN OF UNSUPPORTED EDGES. AT WALLS, PROVIDE WOOD STUD BLOCKING AT ALL UNSUPPORTED EDGES. ALL STUDS W/ #10 SCREWS AT 6 INCHES ON CENTER AT SHEET EDGES (U.N.O.) & AT 12 INCHES ON CENTER AT INTERMEDIATE FRAMING MEMBERS. SILL PLATES SHALL BE ANCHORED TO FOOTINGS w/ 1/2"x4" TAPCON LDT ANCHORS AT 32 INCHES ON CENTER.

USE THICKNESS SPAN/INDEX RATIO EDGE CONNECTION/FIELD CONNECTION
LOW SLOPE ROOF 3/4" 40/20 #8 AT 6" O.C. #8 AT 6" O.C.
ROOF 5/8" 40/20 #8 AT 6" O.C. #8 AT 6" O.C.
WALL 1/2" 32/16 #8 AT 6" O.C. #8 AT 6" O.C.
- OTHER APA RATED STRUCTURAL PANELS (I.E. ORIENTED STRAND BOARD) CONFORMING TO NER-108 AND PRODUCT STANDARD 2 - 92, AND WITH THE SAME EXPOSURE DURABILITY CLASSIFICATION, NOMINAL THICKNESS AND SPAN/INDEX RATIO MAY BE SUBSTITUTED FOR PLYWOOD
- ANY PLYWOOD USED AS ROOF DECKING MUST BE FIRE TREATED.

ENGINEERED WOOD NOTES:

- ALL MANUFACTURED ENGINEERED WOOD LISTED AS BEEN DESIGNED USING PRODUCT DATA FROM WEYERHAEUSER CORPORATION. ENGINEERED WOOD MEMBERS SUPPLIED BY OTHER MANUFACTURERS SHALL MEET OR EXCEED THE CRITERIA FOR THE DESIGNATED WEYERHAEUSER CORPORATION PRODUCT FOR THE SPAN, SPACING, AND LOADS INDICATED IN THE CONSTRUCTION DOCUMENTS.
- ALL PROPERTIES LISTED ARE FOR DRY-USE CONDITIONS.
- ALL CONNECTIONS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY.
- CONTRACTOR SHALL PROVIDE A COMPLETE INSTALLATION OF MANUFACTURED ENGINEERED WOOD MEMBERS, INCLUDING BUT NOT LIMITED TO, ALL BLOCKING, STIFFENERS, AND SIMILAR ITEMS.
- MANUFACTURED ENGINEERED WOOD SHALL BE DESIGNED BY THE SUPPLIER TO MEET THE PROJECT REQUIREMENTS INDICATED IN THE CONSTRUCTION DOCUMENTS. LAYOUT AND DESIGN OF MEMBERS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED TO PRACTICE IN THE PROJECT STATE, AND SUBMITTED TO ENGINEER OF RECORD, FOR REVIEW.
- ALL ENGINEERED WOOD SHALL BE COMMERCIAL GRADE.
- ALL ENGINEERED WOOD PERMANENTLY EXPOSED TO WEATHER SHALL BE PRESSURE-TREATED, COATED OR SEALED.
- MANUFACTURED LAMINATED VENEER LUMBER DESIGNATED AS LVL SHALL BE SUPPLIED WITH THE FOLLOWING MINIMUM MATERIAL PROPERTIES, FOR 12" DEPTHS:
EXTREME FIBER STRESS IN BENDING, EDGEWISE:2,600 PSI
EXTREME FIBER STRESS IN SHEAR, HORIZONTAL: 285 PSI
MODULUS OF ELASTICITY, EDGEWISE: 1,900,000 PSI
PSL1 MANUFACTURED PARALLEL STRAND LUMBER DESIGNATED AS PSL SHALL BE SUPPLIED WITH THE FOLLOWING MINIMUM MATERIAL PROPERTIES, FOR 12" DEPTHS:
EXTREME FIBER STRESS IN BENDING, EDGEWISE:2,900 PSI (BEAM)
EXTREME FIBER STRESS IN BENDING, EDGEWISE:2,400 PSI (COLUMN)
MODULUS OF ELASTICITY, EDGEWISE: 2,000,000 PSI (BEAM)
MODULUS OF ELASTICITY, EDGEWISE: 1,800,000 PSI (COLUMN)
EXTREME FIBER STRESS IN SHEAR, HORIZONTAL: 290 PSI (BEAM)
WLJ1 MANUFACTURED WOOD I-JOISTS DESIGNATED AS WOOD I-JOISTS SHALL BE SUPPLIED TO MEET THE MINIMUM LOADING AND DEPTH REQUIREMENTS AS INDICATED ON THE DRAWINGS, AND THE FOLLOWING: FLOOR MAXIMUM TOTAL DEFLECTION SPAN / 360 FLOOR MAXIMUM LIVE DEFLECTION SPAN / 480 ROOF MAXIMUM TOTAL DEFLECTION SPAN / 240 ROOF MAXIMUM LIVE DEFLECTION SPAN / 360
- OWT1 MANUFACTURED WOOD OPEN WEB TRUSSES DESIGNATED AS OPEN WEB TRUSSES SHALL BE SUPPLIED TO MEET THE MINIMUM LOADING AND DEPTH REQUIREMENTS AS INDICATED ON THE DRAWINGS, AND THE FOLLOWING: FLOOR MAXIMUM TOTAL DEFLECTION SPAN / 360 FLOOR MAXIMUM LIVE DEFLECTION SPAN / 480 ROOF MAXIMUM TOTAL DEFLECTION SPAN / 240 ROOF MAXIMUM LIVE DEFLECTION SPAN / 360

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:

- THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
- THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE ENGINEER OR ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL.
- UPON COMPLETION OF THE ASSIGNED WORK, THE SPECIAL INSPECTOR SHALL COMPLETE AND SIGN A FINAL REPORT CERTIFYING THAT, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE

ENGINEER OF RECORD:

TESTING AGENCIES

#	SPECIAL INSPECTION AGENCIES	FIRM	ADDRESS TEL. EMAIL
1.	SPECIAL INSPECTION COORDINATOR	NEHMI CONSULTING ENGINEERS P.E.	70 NEW YORK AVE
	FIELD COORDINATOR:	W.W.CRAVEN&SONS	WARWICK,RI 02888
	WALTER CRAVEN	860-460-6388	401-241-1098
2.	INSPECTOR (TESTING LABORATORY)	MATERIALS TESTING INC.	55 LAURA ST.
			NEW HAVEN,CT 06226
			203-468-5216
3.	P.E. FIELD INSPECTOR	NEHMI CONSULTING ENGINEERS P.E.	70 NEW YORK AVE
			WARWICK,RI 02888
			401-241-1098

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REVISIONS

NO.	DATE	BY	DESCRIPTION

PHASE:

CONSTRUCTION SET

PROJECT DETAILS

NEW
BEST WAY CONVENIENCE
STORE
271 HOP RIVER ROAD
BOLTON,CT

PREPARED FOR:

IMS PETROLEUM
271 HOP RIVER ROAD
BOLTON,CT.

FILE REF:
NATIONAL-N.C.T-5-B-M-U-NS
BW-C317-HOP-RVR -RD-BOLTN-CT

DESIGN #
06043-2877181-2

CODE REF:
2018 IBC

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WWC

DESIGN DATE
08-17-22

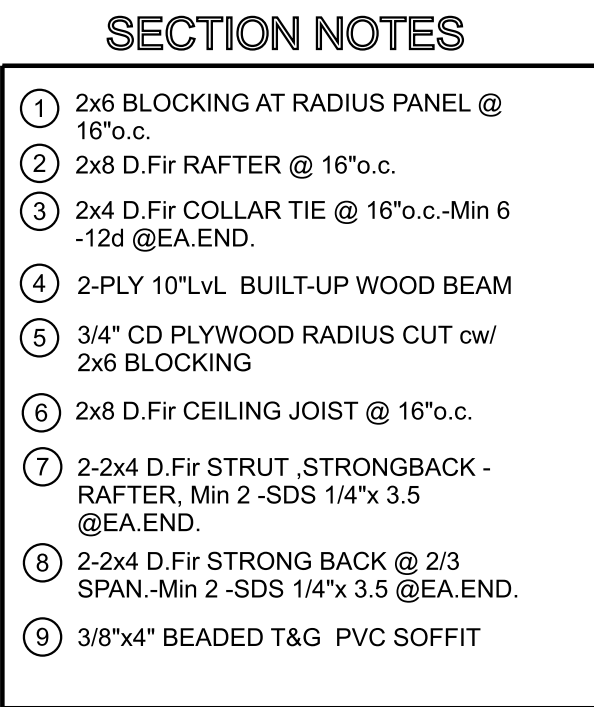
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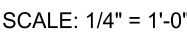
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SCALE: 1/4" = 1'-0"



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O.	DATE	BY	DESCRIPTION
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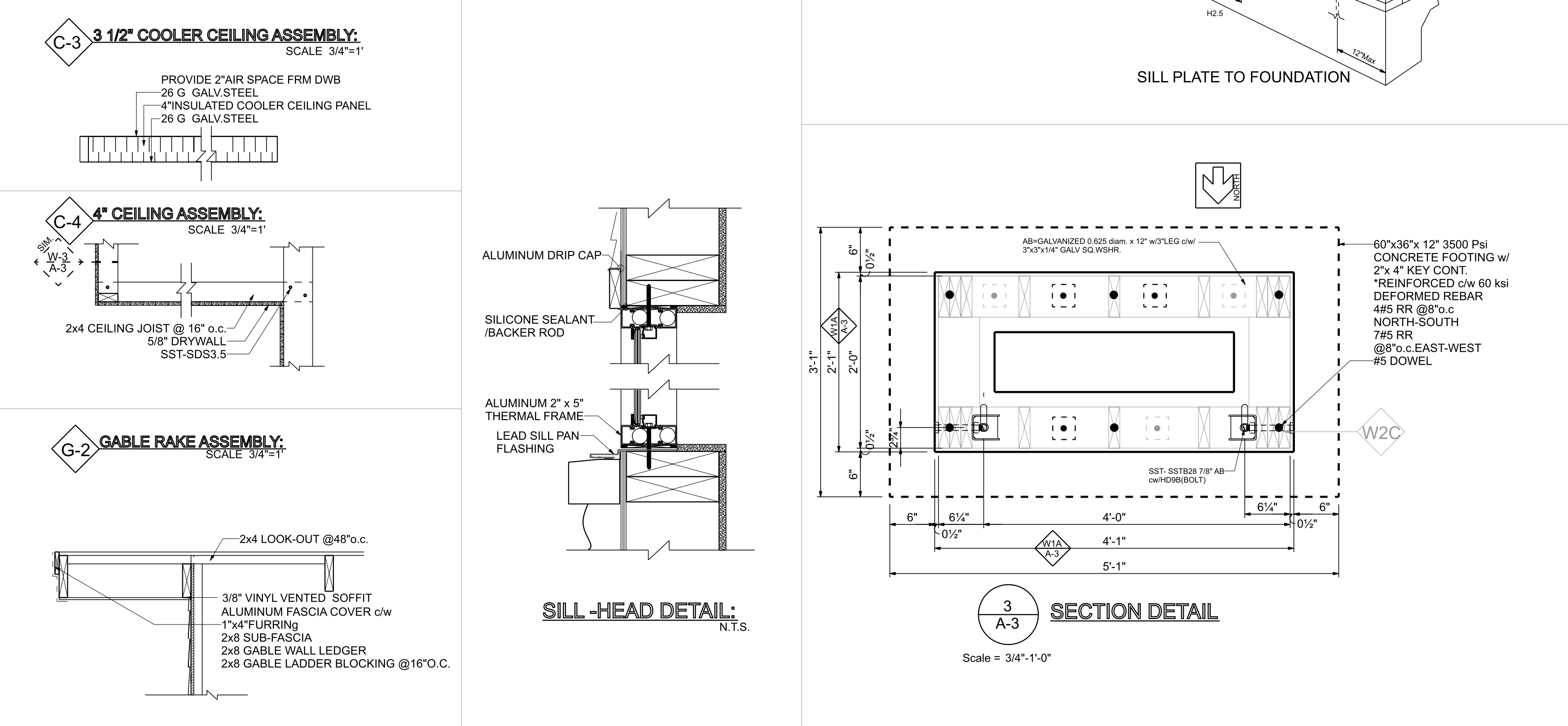
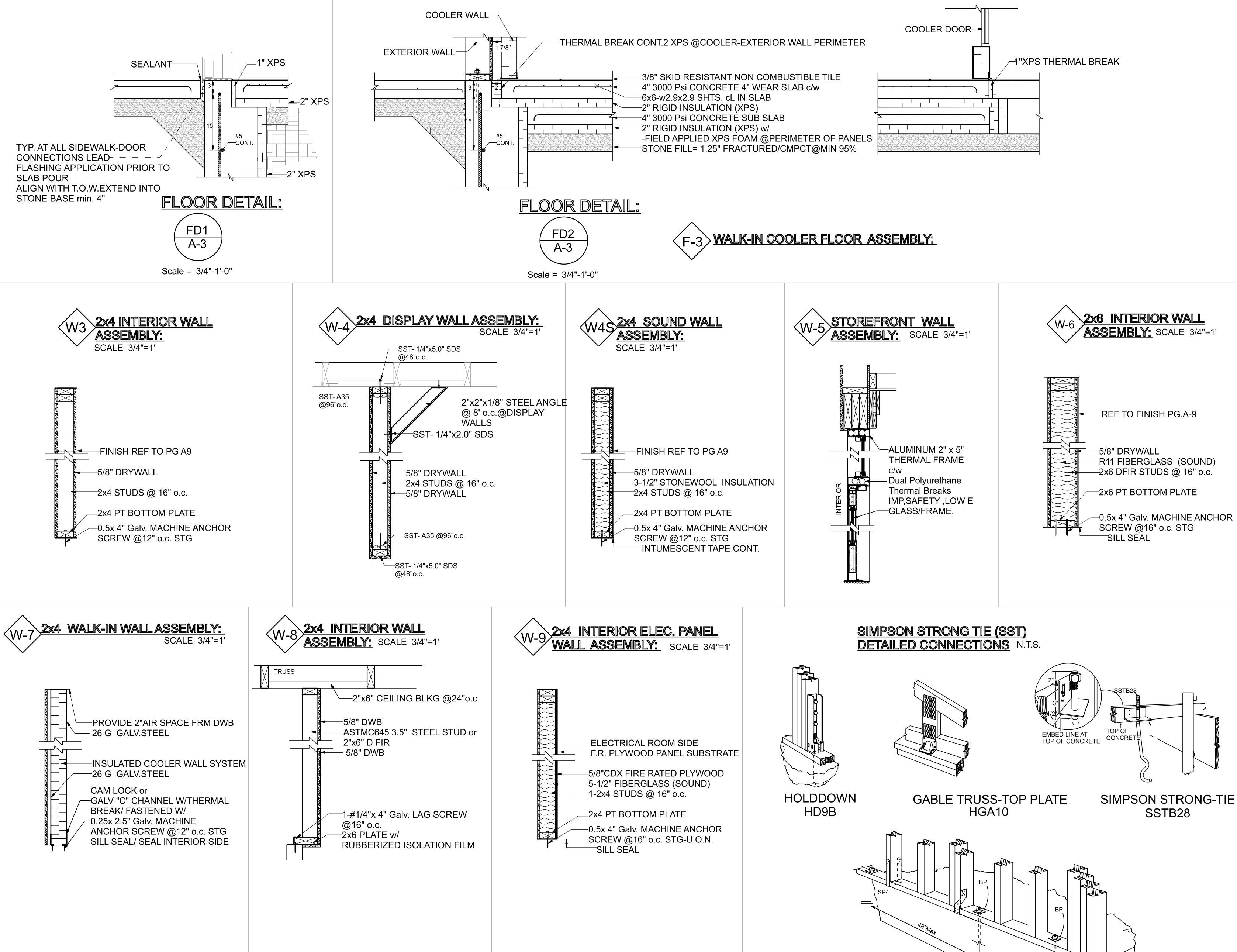
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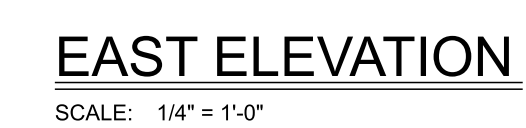
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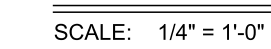
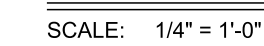
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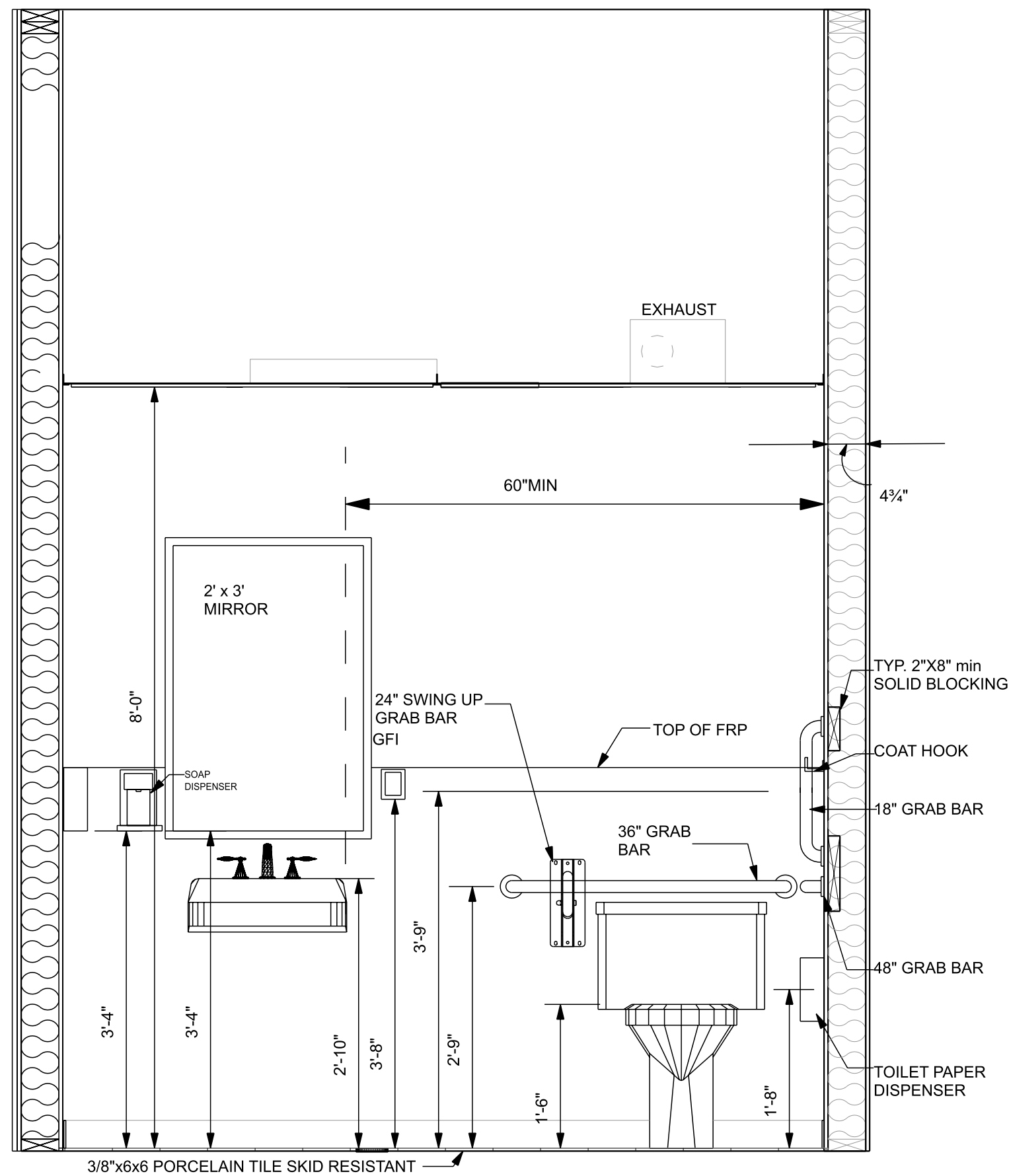
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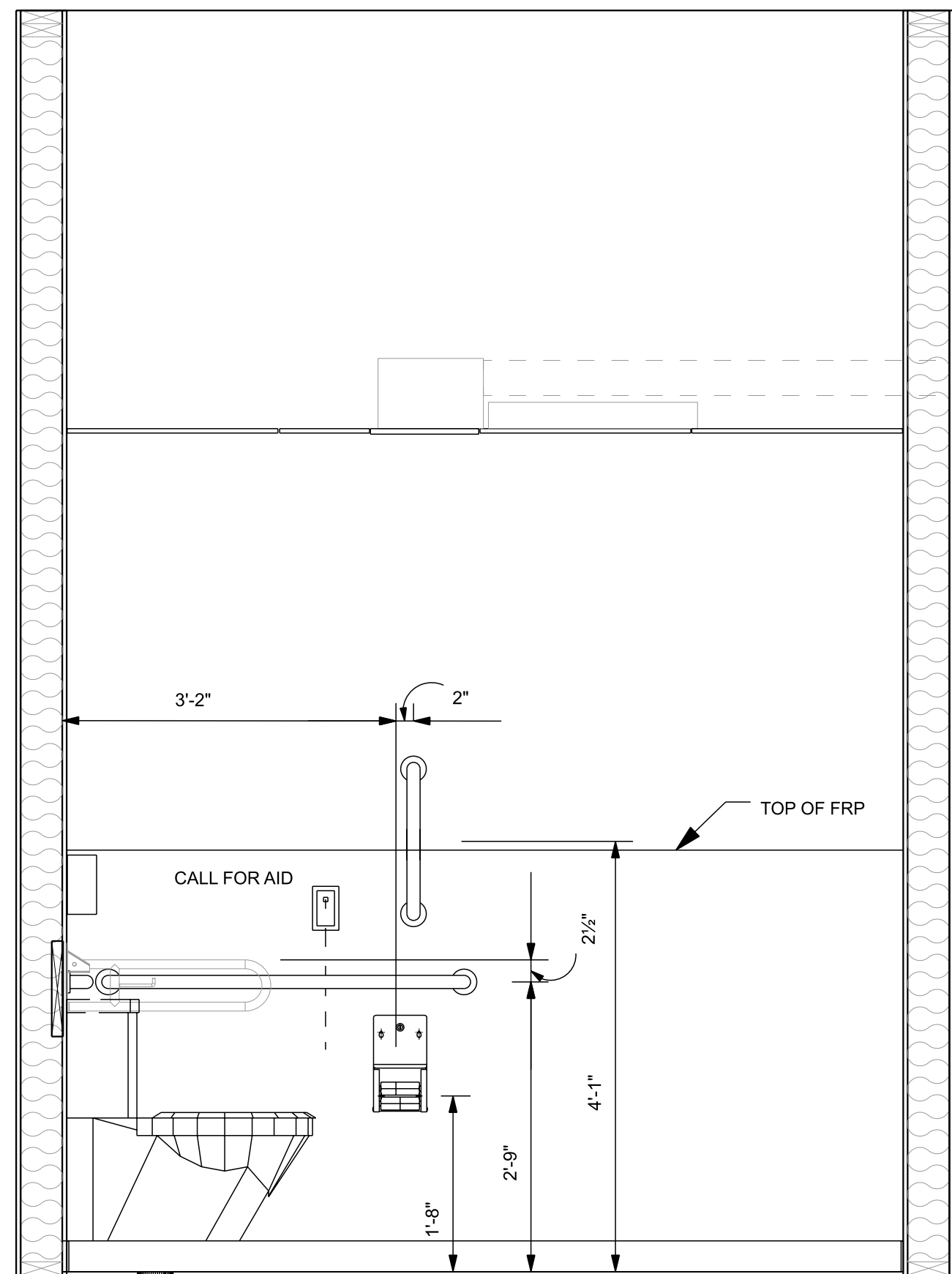
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INTERIOR ELEVATION

1
A-6

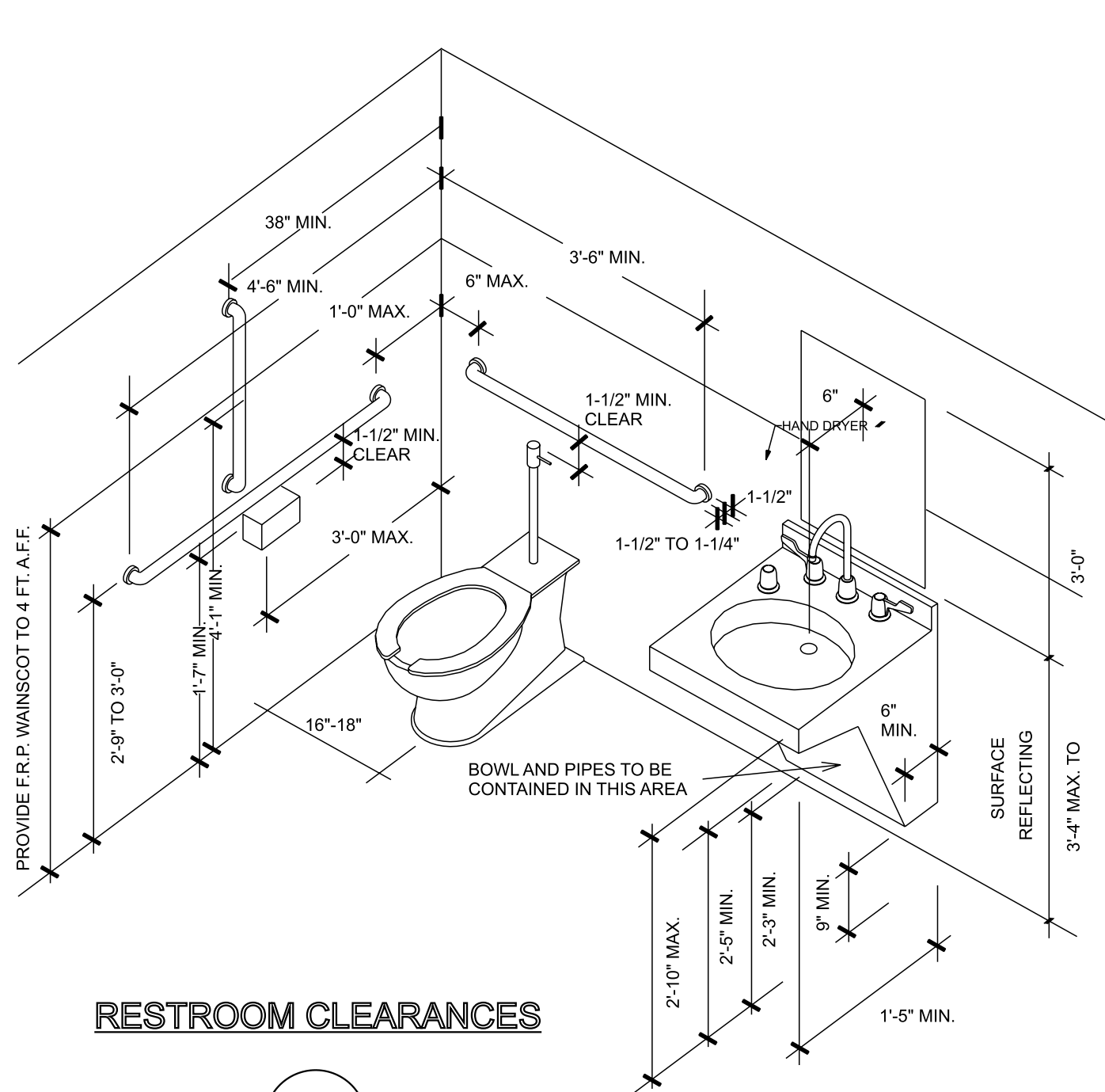
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INTERIOR ELEVATION

2
A-6

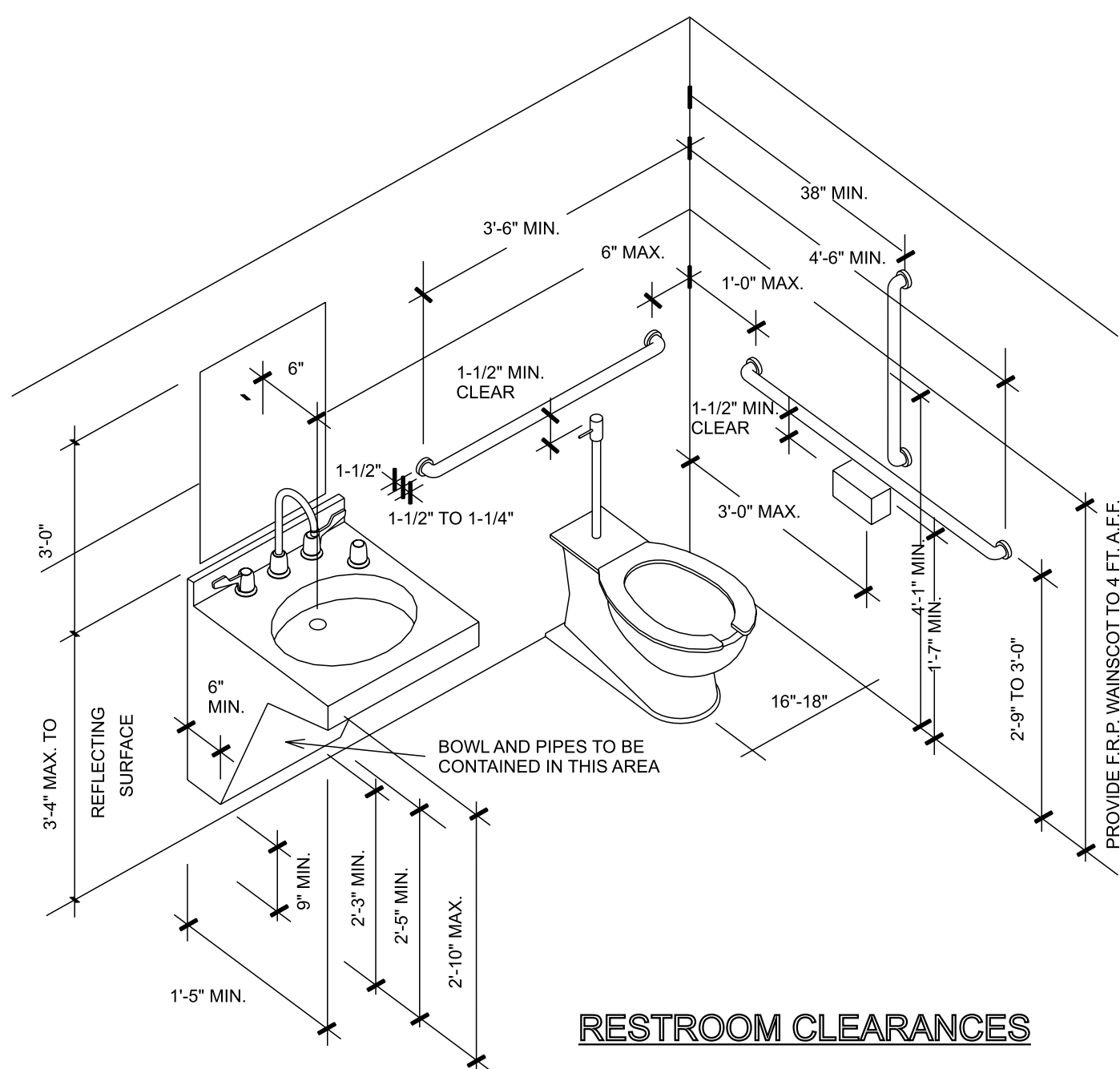
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RESTROOM CLEARANCES

3
A-6

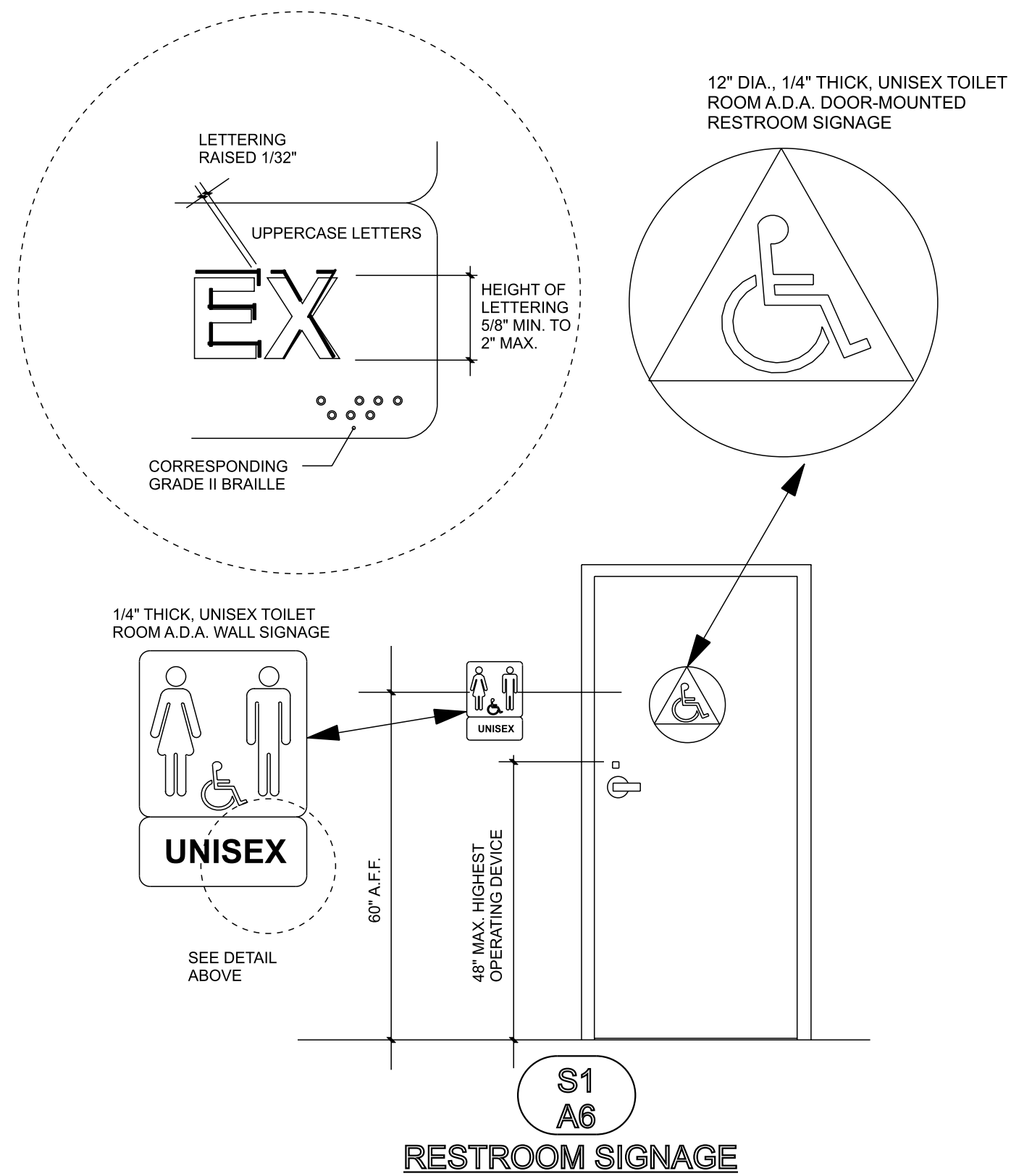
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RESTROOM CLEARANCES

4
A-6

Scale = NTS



RESTROOM SIGNAGE

S1
A6

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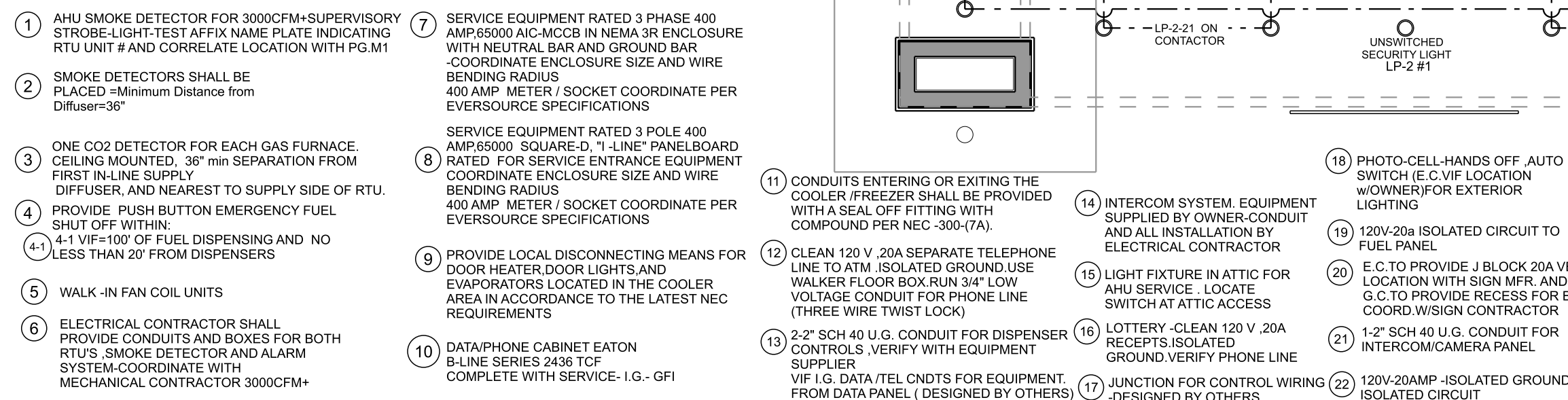
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REFER TO CIVIL DWGS.

ONSITE WELL PUMP/SEPTIC

REFER TO CIVIL DWGS.

SIGN

REFER TO CANOPY MFR. DWGS.

CANOPY LIGHTS=12 LIGHTS TOTAL

TYPES NOTES

- OS=OCCUPANCY SENSOR
- LTA= SWITCH W INDICATOR LIGHT
- 1: TIMES
- TO 00:01 TIME DELAY WITHIN MINUTE
- WH= WATEROOF
- GFI=GROUND FAULT CIRCUIT INTERRUPTOR
- SP= SPECIAL PURPOSE REF TO NOTES

LP-1 PANEL - CIRCUIT #

42 GFI HEIGHT TO BOTTOM OF WORK BOX FROM FINISH FLOOR TYPE OUTLET

CIRCUIT DESCRIPTION

REFER TO CIVIL DWGS.

SITE LIGHTING

REFER TO CIVIL DWGS.

WATER / AIR STATION

DO NOT SCALE

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860-460-6388

PANEL-CIRCUIT DESCRIPTION

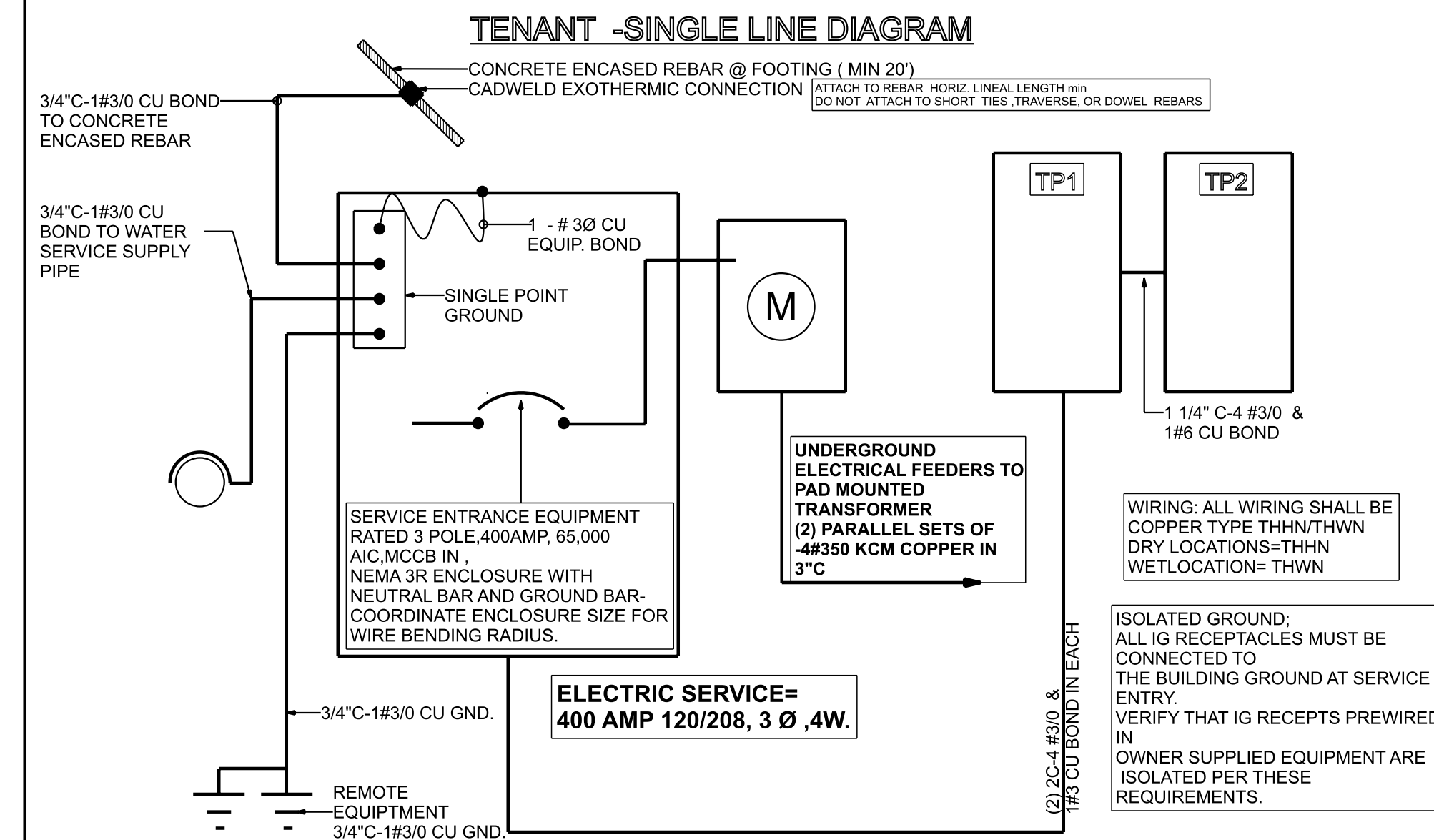
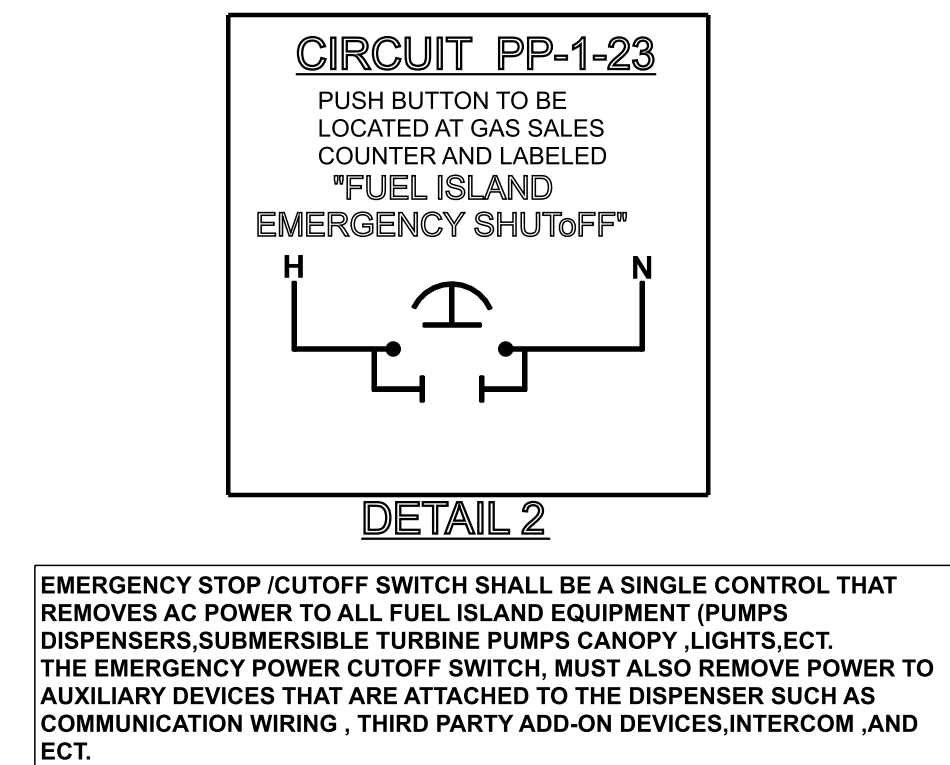
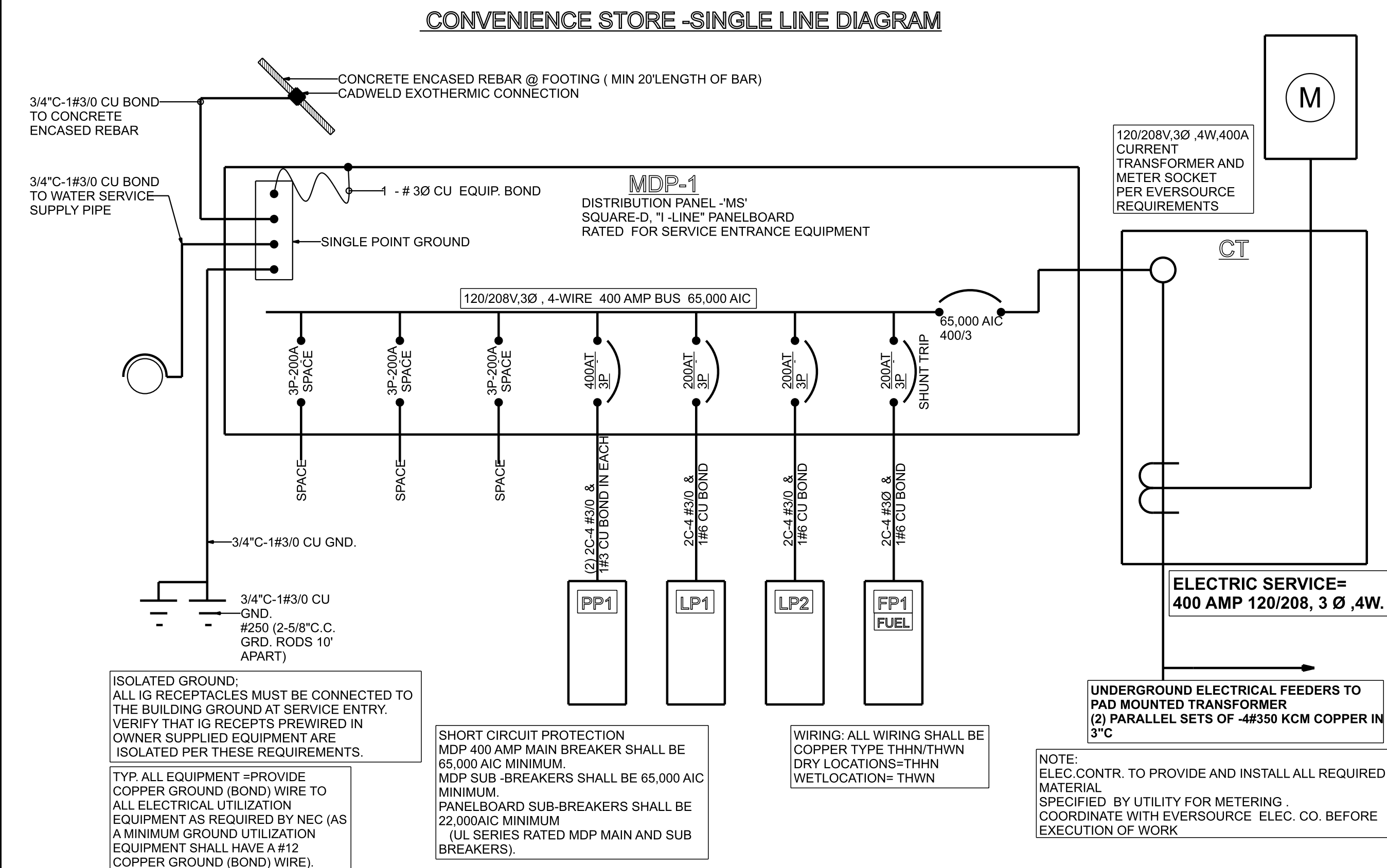
POWER PANEL-1										PANEL TYPE: SQUARE D -NONF. PANEL BOARD WITH GROUND BUS SERVICE: 2-3/0, 208Y/120V 3PH 4 WIRE 400 AMP-BOLT ON COPPER BUS										CAB: MLO-SURFACE MOUNT ISC RATNG: ALL SUB BRKRS 22,000 AIC										
CIRCUIT #	GAUGE	AMPS	DESCRIPTION							CIRCUIT #	GAUGE	AMPS	DESCRIPTION																	
1	3-#8	50	WALK-IN -CU-4 COMPRESSOR UNIT							2	3-#8	50	WALK-IN-CU-5 COMPRESSOR UNIT																	
3	3-#8	50	WALK-IN -CU-4 COMPRESSOR UNIT							4	3-#8	50	WALK-IN-CU-5 COMPRESSOR UNIT																	
5	3-#8	50	WALK-IN -CU-4 COMPRESSOR UNIT							6	3-#8	50	WALK-IN-CU-5 COMPRESSOR UNIT																	
7	2-#6	50	CU-1							8	12	20	SPARE																	
9	2-#6	50	CU-1							10	12	20	SPARE																	
11	2-#6	50	CU-2							12	12	20	GF-1																	
13	2-#6	50	CU-2							14	12	20	SPARE																	
15	12	20	SPARE							16	12	20	GF-2																	
17	12	20	OUTSIDE OUTLETS							18	12	20	SPARE																	
19	12	20	MOTOR -DAMPER							20	12	20	SPARE																	
21	12	20	COMPRESSED AIR/TIRE FILL STATION							22	12	20	RETAIL AREA RECEPT 18-FLR- VIF w/Owner																	
23	10	20	FIRE SUPPRESSION/EMERG. STOP							24	12	20	RETAIL AREA RECEPT 18AFF																	
25	3-#6	70	WATER HEATER							26	12	20	WALK-IN COOLING FANS																	
27	3-#6	70	WATER HEATER							28	12	20	WALK-IN COOLING FANS																	
29	3-#6	70	WATER HEATER							30	12	20	FRONT CEILING RECEPTS.																	
31	#10	30	COFFEE MAKER							32	12	20	SPARE																	
33	#10	30	COFFEE MAKER							34	12	20	MICROWAVE																	
35	#10	30	COFFEE MAKER							36	12	20	SPARE																	
37	12	20	W.I.C.DOOR HEATER H1,2							38	12	20	W.I.C. COOLER DOOR HEATER H7,8																	
39	12	20	W.I.C. DOOR HEATER H3,4							40	12	20	W.I.C. COOLER DOOR HEATER H9,10																	
41	12	20	W.I.C. DOOR HEATER H5,6							42	12	20	W.I.C. COOLER DOOR HEATER H11,12																	

PANEL-CIRCUIT DESCRIPTION

LIGHT PANEL -1				PANEL TYPE: SQUARE D -NONF. PANEL BOARD WITH GROUND BUS SERVICE: 3/0, 208Y/120V 3PH 4 WIRE 225 AMP-BOLT ON COPPER BUS												CAB: MLO-SURFACE MOUNT ISC RATNG: ALL SUB BRKRS 22,000 AIC			
CIRCUIT #	GAUGE	AMPS	DESCRIPTION							CIRCUIT #	GAUGE	AMPS	DESCRIPTION						
1	#10	30	WELL PUMP							2	12	20	POS ***ISOLATED GROUND***@SALES UNDR-CNTR.						
3	#10	30	WELL PUMP							4	12	20	POS ***ISOLATED GROUND***@SALES UNDR-CNTR.						
5	#10	30	WELL PUMP							6	12	20	POS ***ISOLATED GROUND***@SALES UNDR-CNTR.						
7	12	20	SPACE							8	12	20	POS ***ISOLATED GROUND***@SALES UNDR-CNTR.						
9	12	20	SPACE							10	12	20	FRZR/COOLER RECEPTS@ DISPLAY WALL -106*						
11	12	20	SPARE							12	12	20	SPARE						
13	#10	20	3- UTILITY GFI RECEPTS							14	12	20	SPARE						
15	#10	20	3- UTILITY GFI RECEPTS							16	12	20	REQUEST FOR AIDE/BEACON						
17	12	20	SPACE							18	2#10	20	LOTTERY MACHINE						
19	12	20	ELECTRICAL ROOM 2-GFI RECEPTS.							20	2#10	20	4- GFI AT SALES COUNTER						
21	12	20	WALK-IN-COOLER OVERHEAD LIGHTS/GFI							22	3#10	30	2 GFI S.P AT SALES COUNTER						
23	12	20	WALK-IN-COOLER DOOR LIGHTS							24	3#10	30	2 GFI S.P AT SALES COUNTER						
25	12	20	SALES COUNTER GFI@ DISPLAY WALL -106*							26	12	20	SOIL AIR CONTROLLER						
27	#10	30	FROZEN BEVERAGE DISPENSER							28	12	20	SOIL AIR CONTROLLER						
29	#10	30	FROZEN BEVERAGE DISPENSER							30	10	20	SEPTIC PUMP						
31	#10	30	FROZEN BEVERAGE DISPENSER							32	12	20	ATM (IG)SALES CLEAN 120V-20 ISOLATED GROUND						
33	12	20	COFFEE SALE CONTR GFI RECEPT. 2							34	2	20	SPARE						
35	12	20	SPARE							36	2#10	20	COFFEE SALES CONTR GFI-3						
37	12	20	COFFEE SALE CONTR GFI RECEPT. 2							38	12	20	FREEZER CIRCUIT						
39	#10	20	COFFEE SALE CONTR GFI RECEPT. 3							40	12	30	FREEZER CIRCUIT						
41	12	20	SPACE							42	12	30	FREEZER CIRCUIT						

PANEL-CIRCUIT DESCRIPTION

LIGHT PANEL -2										PANEL TYPE: SQUARE D -NONF. PANEL BOARD WITH GROUND BUS SERVICE: 3/0, 208Y/120V 3PH 4 WIRE 225 AMP-BOLT ON COPPER BUS										CAB: MLO-SURFACE MOUNT ISC RATNG: ALL SUB BRKRS 22,000 AIC									
CIRCUIT #	GAUGE	AMPS	DESCRIPTION							CIRCUIT #	GAUGE	AMPS	DESCRIPTION							CIRCUIT #	GAUGE	AMPS	DESCRIPTION						
1	12	20 AUDIBLE ALARM	EMERGENCY/NIGHT LIGHTS SMOKE-HEAT DETECTORS							2	12	20	ATTIC LIGHTS-GAS-FRNC SERVICE GFI																
3	12	20	SPARE							4	12	20	RETAIL AREA LIGHTS																
5	12	20	SALES CNTR/COORDR/OOR/ELEC RM. O.H LIGHTS							6	12	20	RETAIL AREA LIGHTS																
7	12	20	EXTERIOR SOFFIT LIGHTS-SIDEWALLPACKS @ FRONT-RIGHT							8	12	20	DIGITAL DISPLAY-																
9	12	20	EXTERIOR SOFFIT LIGHTS-SIDEWALLPACKS @ REAR-LEFT							10	12	20	SITE LIGHTING																
11	12	20	OFFICE /UTILITY/MENS/WOMNS/STORAGE O.H LIGHTS							12	12	20	SITE LIGHTING																
13	12	20	OFFICE--3-GFI 44"							14	12	20	CONTACTOR CONTROL *(C)																
15	12	20	ELEC.RM COORDR GFI RECEPTS							16	10	30	SITE SIGN-GFI																
17	12	20	ELECTRIC RM.-VEEDER -ROOT							18	10	30	J BOX SALES COUNTER																
19	12	20	SPARE							20	10	30	SPARE																
21	12	20	FRONT ENTRANCE OVERHEAD LIGHTS							22	10	20	UTILITY RM J BOX																
23	12	20	SPARE							24	12	20	SPARE																
25	2#10	20	AIR CURTAIN							26	12	20	GFI AT MAIN SIGN																
27	12	20	J BOX-SIGN FRONT GABLE (EXTERIOR)VIF w/sign CNTR.							28	12	20	J BOX-SIGN NORTH GABLE (COVERED)																
29	12	20	MENS/WOMENS RESTROOM FAN							30	12	20	SPARE																
31	12	20	MENS/WOMEN RESTROOM GFI							32	12	20	SPARE																
33	2#10w#10GRND	30	MENS RESTROOM HAND DRYER							34	2#10w#10GRND	30	WOMENS RESTROOM HAND DRYER																
35	12	20	SPARE							36	12	20	SPARE																
37	3#6	60	PANEL-SIGN							38	3#6	40	O.S. LIGHT PANEL(PANEL-OLT)																
39	3#6	60	PANEL-SIGN							40	3#6	40	O.S. LIGHT PANEL(PANEL-OLT)																
41	3#6	60	PANEL-SIGN							42	3#6	40	O.S. LIGHT PANEL(PANEL-OLT)																




ELECTRICAL NOTES:

1. ALL WIRING SHALL BE 600 VOLT COPPER BUILDING WIRE IN METALLIC RACEWAYS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. ALL WIRING SHALL BE STRANDED WIRE (#10 & SMALLER) SHALL BE SOLID WIRE INSULATION SHALL BE TYPE THHN OR THWN. (THHN AT DRY LOCATIONS)(THWN AT WET LOCATIONS).
3. LIGHTING PANELBOARDS APPROVED EQUIPMENT BY CUTLER HENDERSON ITS OR ITS EQUIVALENT ALL BRANCH CIRCUIT BREAKERS IN PANELBOARDS SHALL HAVE A MINIMUM 22,000 AMP INTERRUPTING CAPACITY
4. FUSIBLE DISCONNECT SWITCHES SHALL BE SQUARE "D", CH,ITE,HEAVY DUTY TYPEW/ DUAL ELEMENT FUSES
5. ELECTRICAL CONTRACTOR TO RUN ALL PHONE LINES AND CONNECT ALL PHONES FROM TELEPHONE PANEL, PROVIDE ALL WIRING FOR SECURITY SYSTEM AT SALES COUNTER, E. C. TO COORDINATE SEC. SYST. WIRING WITH G. C.
6. LOCATE AND PROVIDE PROTECTION TO ALL EXISTING UTILITIES BEFORE START OF ANY EXCAVATION. E.C. TO CALL BEFORE YOU DIG #811.
7. INTERCOM SYSTEM AND ATM COMPONENT SHALL BE FURNISHED BY THE OWNER. ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
8. USE WALKER FLOOR BOXES #RAKMI-R FOR RECESSED OUTLETS. FOR REPTS BELOW FINISHED FLOOR.
9. ALL ELECTRICAL WORK SHALL BE FURNISH AND INSTALL ALL WHIPS AND FINAL CONNECTIONS FOR ALL EQUIPMENT.

ELECTRICAL NOTES:

1. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE TO VERIFY WITH THE UTILITY COMPANY, THE AVAILABLE INCOMING FUEL AND CURRENT METERING METHOD AND WILL SIZE SERVICE EQUIPMENT ACCORDINGLY.
2. ALL PANELS WILL BE SQUARE D TYPE NQOD OR AS INDICATED
3. ALL LIGHTING CONTACTORS SHALL BE SQUARE D TYPE SP-2
4. SERVICE CONDUCTORS SHALL BE COPPER TYPE THHN
5. ELECTRICIAN SHALL VERIFY WITH THE UTILITY COMPANY THE EXACT LOCATION OF SERVICE RISE POLE OR PAD MOUNT TRANSFER.
6. FUEL DISPENSERS AND P.O.S. EQUIPMENT SHALL BE ON THE SAME PHASE.
7. ALL ELECTRICAL WORK SHALL BE WITHIN THE BUILDING LINES OF THE CONVENIENCE STORE, ALL OTHER AREAS (FUEL STORAGE TANKS, TANK MONITORING, GAS PUMPS, GAS PUMP CANOPY/PARKING AREAS, SEPTIC SYSTEM, LIGHTING SITE OFFICE, ROOF DRAINAGE, WATER DETENTION ECT) ARE DESIGNED BY OTHERS.

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DIMENSIONS

THESE PLANS HAVE BEEN PREPARED TO MEET TOP PROFESSIONAL STANDARDS AND PRACTICE HOWEVER, BUILDING CODE REQUIREMENTS VARY WITH LOCATION AND CHANGE TIME TO TIME BEFORE STARTING CONSTRUCTION THE CONTRACTOR SHOULD CHECK AND BE RESPONSIBLE FOR ANY DIMENSIONS AND OTHER DETAILS, AND SHOULD REVIEW THE PLANS TO INSURE THEY MEET CURRENT REQUIREMENTS

[illegible]

PHASE;
CONSTRUCTION SET


PROJECT DETAILS

NEW
BEST WAY CONVENIENCE
STORE
271 HOP RIVER ROAD
BOLTON, CT

PREPARED FOR:
IMS PETROLEUM
271 HOP RIVER ROAD
BOLTON, CT.

FILE REF:
NATIONAL-N.C. T-5-B-M-U-NS
BW-CS-271-HOP-RVR -RD-BOLTN-CT

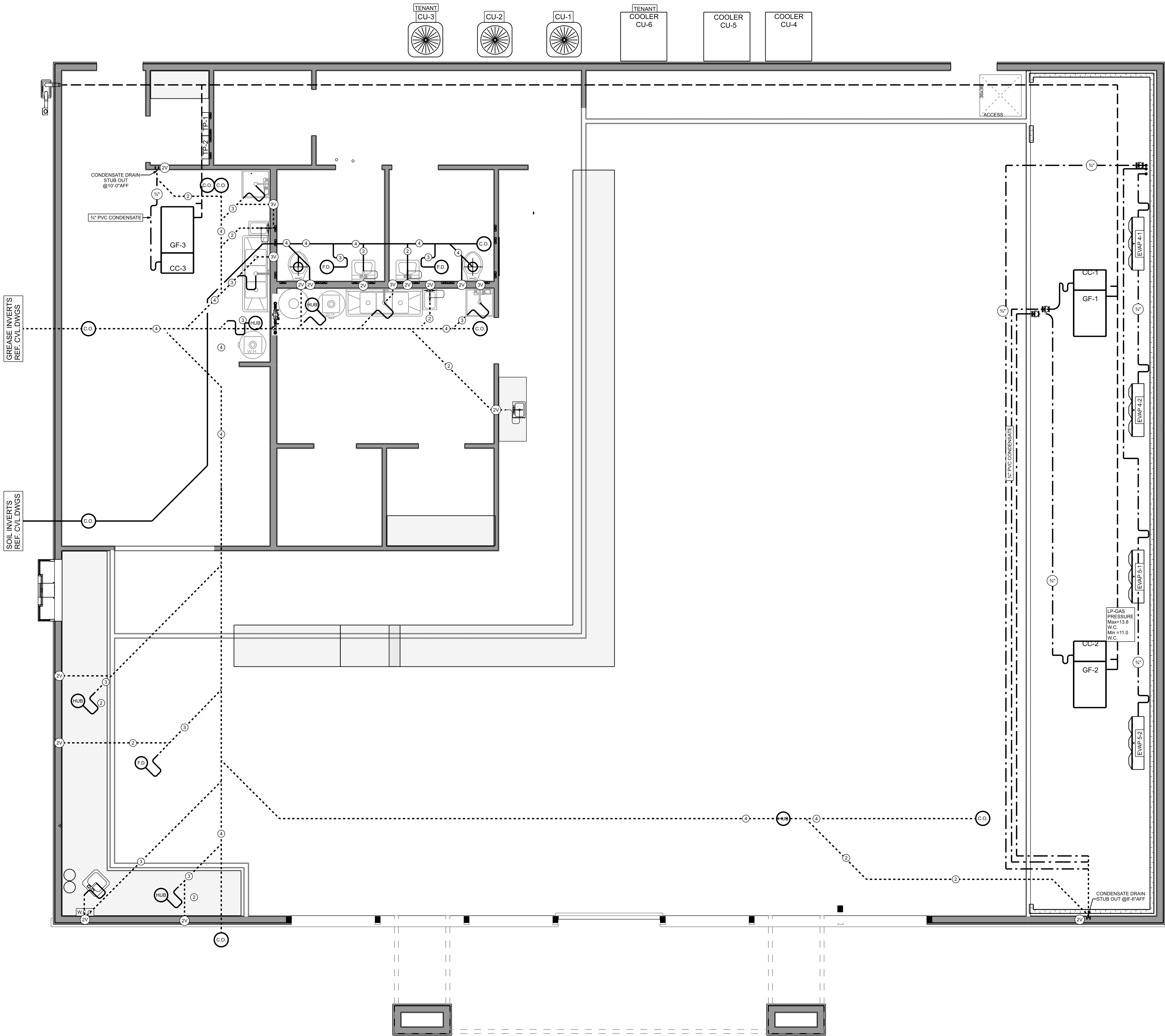
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**W.W. CRAVEN
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DESIGN, PLANNING
CONSTRUCTION**

P.O. BOX 353
GALES FERRY, CT. 06335
860-460-6388



ACCESSIBILITY NOTES

- TOILET FLUSH CONTROLS SHALL BE OPERABLE, WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING PINCHING OR TWISTING OF THE WRIST CONTROLS SHALL BE MOUNTED NO MORE THAN 44" A.F.F.
- THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5lbs./Ft.
- A CLEAR FLOOR SPACE 30" WIDE x 48" LONG SHALL BE PROVIDED IN FRONT OF LAVATORIES TO ALLOW FORWARD APPROACH SUCH CLEAR FLOOR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE AND SHALL EXTEND INTO KNEE AND TOE SPACE UNDER LAVATORIES.
- HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED.THERE SHALL BE NO SHARP OR ABRASIVE SURFACE UNDER LAVATORIES.USE HANDIGUARD KIT ON HW,CW AND WASTE.
- FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING PINCHING OR TWISTING OF THE WRIST CONTROLS SHALL BE MOUNTED NO MORE THAN 44" A.F.F.,THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5lbs./Ft.
- FLUSH HANDLES SHALL BE ON THE WIDE SIDE OF THE WATER CLOSET.

DWV SCHEDULE

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

GENERAL NOTES:

- SLOPE ALL 3"- SANITARY DRAINS @ 1/4"-12"H OR MORE.
SLOPE ALL 4"-SANITARY DRAINS AT 1/8"-12"H OR MORE.
SLOPE ALL VENT PIPING TO DRAIN TOWARDS FUTURE.
- CONTRACTOR TO LOCATE AND VIF ALL SUB-SURFACE UTILITIES PIPING SEPTIC ECT. .
PLUMBING CONTR. SHALL CALL BEFORE YOU DIG (811) ,AND HAVE ALL SUB-SURFACE MAN MADE MATERIALS LOCATED.
SHOULD CONDITIONS EXIST OTHER THAN THOSE INDICATED WHICH WOULD CAUSE THE DESIGN TO BE ALTERED,PLUMBING CONTRACTOR, SHALL NOTIFY THE ENGINEER IMMEDIATLY
PRIOR TO EXECUTION OF WORK.
- VENTS SHALL BE 2" UNLESS OTHERWISE NOTED
(MAINTAIN VERTICAL PLUMB)
- PROVIDE TRAP SEALS-DEEP SEAL P-TRAPS
FOR ALL FLOOR DRAINS AND HUB DRAINS.
- CLEANOUTS SHALL BE READY ACCESSIBLE.
PLUMBING CONTR. SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT,CABINETS ,ECT. AND THE DESIGNER PRIOR TO ANY INSTALL.
- ALL VALVES,TRAP PRIMERS,SHOCK ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
- PLUMBING VENTS ,TERMINATE FROM HORIZ.
SURFACE = 24" MIN. AND 10'-0" MIN FROM ANY MAKE-UP AIR OR AIR INTAKE.
- PLUMBING CONTRACTOR TO PROVIDE CONDENSATE DRAINS AT RTU TO APPROVED TERMINATION POINT.
- SANITARY PIPING =PVC SCHEDULE 40 UNLESS OTHERWISE NOTED.
- PLUMBING CONTRACTOR SHALL COORDINATE INSTALLATION OF THE PLUMBING WORK WITH OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCE.P.CONTR. TO REVIEW ALL ARCH. ELEC. MECH DRAWINGS.
- PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE TO ALL APPLICABLE STATE AND LOCAL ORDINANCES REGULATIONS,AND CODES.
P.CONTR. SHALL OBTAIN APPROVAL FROM REGULATING AGENCIES PRIOR TO EXECUTION OF WORK ALL PLUMBING WORK SHALL MEET OR EXCEED THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE 2015.
INTERNATIONAL PLUMBING CODE
UNLESS OTHERWISE REQUIRED BY THE DEPT. OF BUILDING AND SAFETY.
PLUMBING CONTR. SHALL OBTAIN AND PAY FOR ALL PERMITTING FEES AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITY.
- WATER PIPING SHALL BE TYPE "L" COPPER AT BUILDING INTERIOR.
INSULATE AT COLD WATER PIPING= 1" FIBERGLAS PIPE INSULATION.
1-1/2" AT HOT WATER PIPING.
- PROVIDE AIR CHAMBERS AT ALL SINK LOCATIONS AND WHERE REQUIRED AS TO PREVENT WATER HAMMER.
- INSTALL SHUTOFF VALVES ON HOT AND COLD WATER SUPPLY TO FIXTURE OR APPLIANCE ALL ROUGH STUB OUTS TO BE COPPER
ALL EXPOSED WATER AND WASTE PIPING SHALL BE CHROME PLATED.
- PROVIDE DIE ELECTRIC ISOLATION FITTINGS FOR ALL PIPING CONNECTED TO THE WATER HEATER.
- ALL VALVES, UNIONS,ECT. TO BE SAME SIZE AS PIPE UNLESS OTHERWISE NOTED.

SYMBOL SCHEDULE

SYMBOL	FIXTURE	MFR	CATALOG NUMBER	TRIM & OPTIONS	CONNECTIONS (MINIMUM)				NOTES
					CW	HW	WASTE	VENT	
	PRESSURE TANK				1.25"	-		1/2"	
	WATER CLOSET	ELGER	891-1875 (ELONG)	CHURCH 380 TL OPEN FRONT WHITE SEAT AND BATTERY POWERED AUTOMATIC FLUSH VALVE AND MECHANICAL FLUSH LEVER	1/2"	-	4"	2"	HANDICAP ACCESS
	WALL MOUNT SINK	CRANE	1H-364V	AM.STD.7156.172 FAUCET AUTOMATIC VALVE VERIFY MFR WITH OWNER	1/2"	1/2"	2"	1-1/2"	A.C.E
	MOP SINK	FIAT	MSB-2424	#830-AA FAUCET #889-CC MOP HANGER #832-AA HOSE/BRACKET	1/2"	1/2"	3"	1-1/2"	
	3-COMP SINK	ADVANCE TABCO	FE-3-1620-18	STERLING 7276 FAUCET SS250 STRAINERS	1/2"	1/2"	3"	2"	12" SPOUT
	BAR SINK	ELKAY BILGR-2115-L (SS) W/LK2223 LR HNOL FAUCET,LK36 DRAIN		BRASS TAILPIECE	1/2"	1/2"	2"	1-1/2"	TEMPERED WATER
	MIXING VALVE	WATTS	LFL-1170-US-M2	CAST COPPER SILICON ALLOY BODY	1/2"	1/2"			F
	A.O. SMITH GLASS LINED WATER HEATER MODEL DRE GOLD 50 GALLON 18 KW 208 VOLT,3 PHASE, WITH COMBINATION PRESSURE &TEMP. RELIEF VALVE MANUFACTURER APPROVED EXPANSION TANK PIPE FULL SIZE DISCHARGE TO HUB/DRAIN WITH APPROVED AIR GAP. 75 GPM MAKE-UP AT 100 DG.F. TEMP. RISE				1"	1"		2" LOCATE IN ACCORDANCE WITH MFR.SPEC	
	FLOOR DRAIN	ZURN	ZN415-.6B 3"	6" N.B. ADJUSTABLE TOP			3" DRAIN	2"	
	FLOOR SINK	ZURN	Z1900-18-.6B 4"				4" DRAIN		
	FIELD CLEAN OUT	ZURN	CO2449-PV4	6" BRASS ADJUSTABLE TOP			4" CLEAN OUT		
	HUB DRAIN	ZURN	ZN415-.6B 3"	6" N.B. ADJUSTABLE TOP			3" DRAIN		
	KEYED WALL HYDRANT	ZURN	Z1321-CXL-6	7-1/8" STAINLESS STEEL w/ Key	3/4"				G
	HAND WASHING SINK	ADVANCE TABCO	7-PS-96	FREE STANDING WITH SIDE GUARDS / NSF S.S.CABINET BASE	1/2"	1/2"	2"	1-1/2"	
	WALL CLEAN OUT	PVC		STAINLESS ESCUTCHION WITH STAINLESS PLUG			3"	2"	
	AIR CHAMBER	ZURN		PRE CHARGED NITROGEN	1/2"	1/2"			
	EVAPERATOR FAN			REFER TO COOLER MFR.DWGS					

- NOTES:
- CHROME PLATED ANGLE SUPPLY 3/8" x 12" FLEXIBLE RISER WHEEL HANDLE ESCUTCHEON
 - BOLT CAPS WITH RETAINER CLIPS
 - 1 1/4" TUBULAR P-TRAP W/CLEANOUT PLUG & ESCUTCHEON
 - 1 1/2" TUBULAR P-TRAP W/CLEANOUT PLUG & ESCUTCHEON
 - HANDICAP DRAIN ASSEMBLY
- PROVIDE SHOP DRAWINGS OF ALL PLUMBING FIXTURES AND SINKS TO OWNER FOR OWNERS APPROVAL PRIOR TO ORDERING OF ITEMS
- F TEMPERING VALVE AT BOTTOM OF WOOD TRUSS CEILING CORO (BELOW INSULATION-ABOVE ACOUSTICAL CEILING)-LOU
- G P.C. TO PROVIDE RECESS WALL BOX FOR HYDRANT INSTALL COORDINATE WITH MFR. SPEC.

LINE/PIPE SYMBOL SCHEDULE

	INDICATES PIPE DIAMETER		INDICATES PIPE DIAMETER		INDICATES PIPE DIAMETER
TRAP	INDICATES PIPE DIAMETER	INDICATES PIPE DIAMETER	INDICATES PIPE DIAMETER	INDICATES PIPE DIAMETER	INDICATES PIPE DIAMETER

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THESE PLANS HAVE BEEN PREPARED TO MEET
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HOWEVER,BUILDING CODE REQUIREMENTS VARY
WITH LOCATION AND CHANGE TIME TO TIME
BEFORE STARTING CONSTRUCTION THE
CONTRACTOR SHOULD CHECK AND BE
RESPONSIBLE
FOR ANY DIMENSIONS AND OTHER DETAILS, AND
SHOULD REVIEW THE PLANS TO
INSURE THEY MEET CURRENT REQUIREMENTS

REVISIONS

NO.	DATE	BY	DESCRIPTION
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PHASE:

CONSTRUCTION SET

PROJECT DETAILS

NEW
BEST WAY CONVENIENCE
STORE
271 HOP RIVER ROAD
BOLTON,CT

PREPARED FOR:

IMS PETROLEUM
271 HOP RIVER ROAD
BOLTON,CT.

FILE REF:
NATIONAL-N.C. T-5-B-M-U-NS
BW-CS-271-HOP-RVR -RD-BOLTN-CT

DESIGN #
06043-2877181-2

CODE REF:
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DESIGN DATE
08-17-22

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860-460-6388



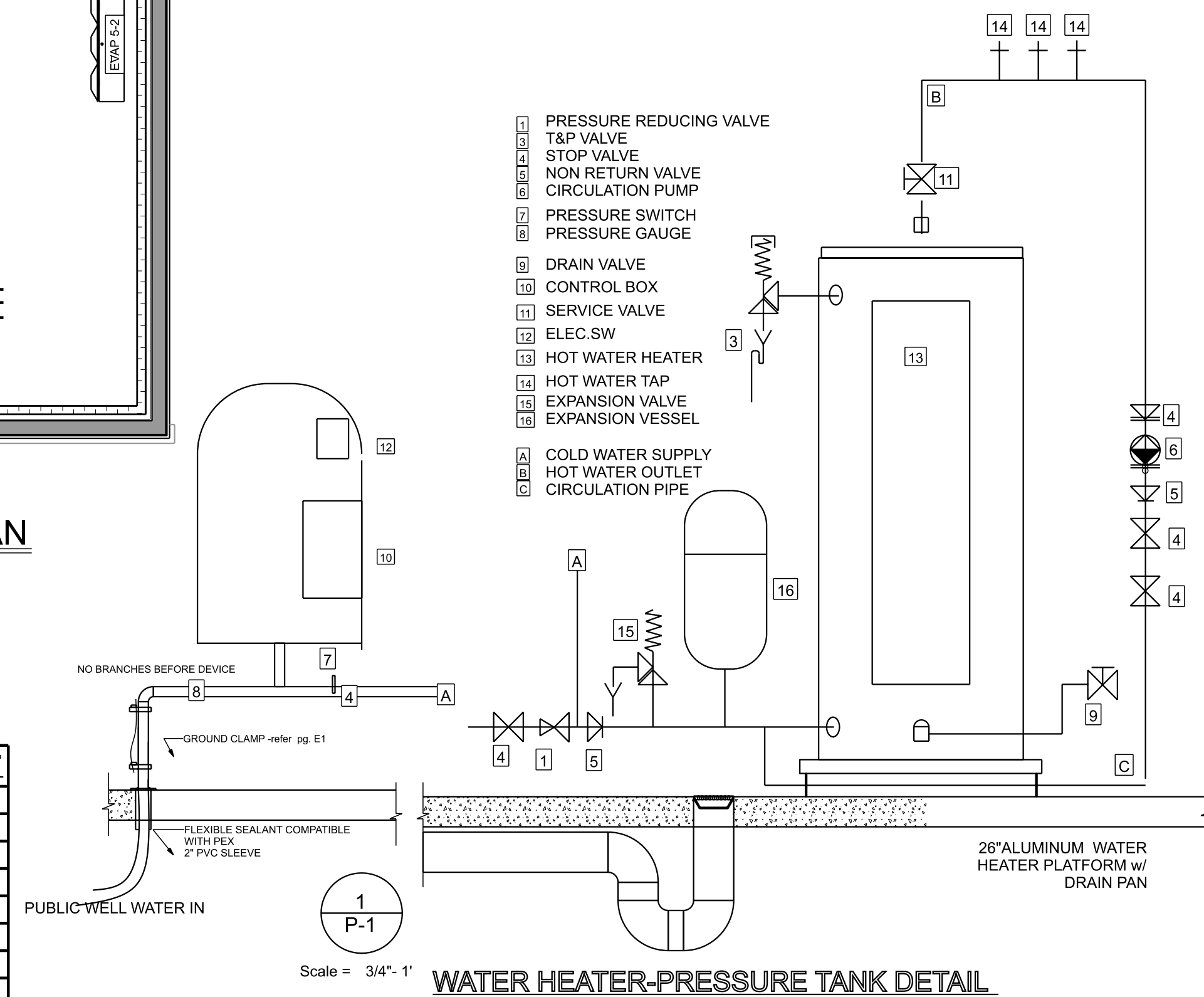
- ① 1.25" BLUE BARRIER PEX BELOW FROST LINE NO COUPLING OR FITTINGS BELOW SLAB
REFER TO CIVIL SITE
- ② 1/2" SUPPLY TO CUBER, PLUMBING CTR. SHALL VIF LOCATION w/OWNER
AND COORDINATE W/CABINET CONTR.
- ③ 3/4" SUPPLY TO AIR/WATER STATION
P.C. TO COORDINATE W/CIVIL AND MFR.

The diagram shows a trench with various pipes and bedding layers. From top to bottom, the layers are:

- 1.25" PUBLIC WATER SUPPLY (solid black line)
- 1" HOT WATER SUPPLY (solid black line)
- 1" COLD WATER SUPPLY (solid black line)
- 3/4" HOT WATER SUPPLY (dashed line)
- 3/4" COLD SUPPLY (dashed line)
- 1/2" HOT SUPPLY (dashed line)
- 1/2" COLD SUPPLY (dashed line)
- 1/2" FILTERED WATER (dashed line)
- GREASE PIPING (solid black line)
- SOIL PIPING (solid black line)
- CONDENSATE DRAIN (solid black line)

Diagram illustrating a pipe with a ceiling and a sub slab. The pipe is labeled "PIPE=DOWN" and "PIPE=UP". The ceiling is labeled "INDICATES CEILING" and "SUB SLAB". The sub slab is labeled "SS".

**ALL PIPING FOR PROPANE -LP- FUEL DISPENSING BY OTHERS
ALL PIPING SHALL BE INSULATED PER SPECIFICATIONS P-1**



PIPING MATERIALS SCHEDULE							FITTINGS	MAX WORKING		FIELD TEST		
SYSTEM	SIZE	TYPE	SCH	GRD	ASTM	MATERIAL	MAT.	ATTACH/WELD	PSI	TEMP (F)	PSI	TIME
SUB - GRADE SOIL AND WASTE	ALL	PVC	40	-	D17-85	PVC	PVC	SLP-WLD	-	50-180	8FT	0:30 min
ABOVE - GRADE SOIL AND WASTE	ALL	PVC	40	-	D17-85	PVC	PVC	SLP-WLD	-	50-180	8FT	0:30 min
DOMESTIC WATER ABOVE-GRADE	ALL	L	-	-	F-877	CROSS LINKED POLYETHYLENE	PEX	PRESS	120	40-180	180Lb	60:0 min
DOMESTIC WATER SUB-GRADE	ALL	K	-	-	B88	CROSS LINKED POLYETHYLENE	PEX	PRESS	120	40-180	180Lb	60:0 min
CONDENSATE DRAIN	ALL	PVC	40	-	D17-85	PVC	PVC	SLP-WLD	-	40-80	8FT	0:30 min
FILTERED WATER	ALL	L	-	-	F-877	ALUMINUM CLAD-CROSS LINKED POLYETHYLENE	ALUMA-PEX	PRESS	120	40-180	180Lb	60:0 min
THRU-WALL SLEEVES	ALL	PVC	SDR	35	D17-85	PVC	PVC	SLP-WLD	-	-	-	-

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NO.	DATE	BY	DESCRIPTION
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CHASE;

CONSTRUCTION SET

NEW
BEST WAY CONVENIENCE
STORE
271 HOP RIVER ROAD
BOLTON,CT

IMS PETROLEUM
271 HOP RIVER ROAD
BOLTON,CT.

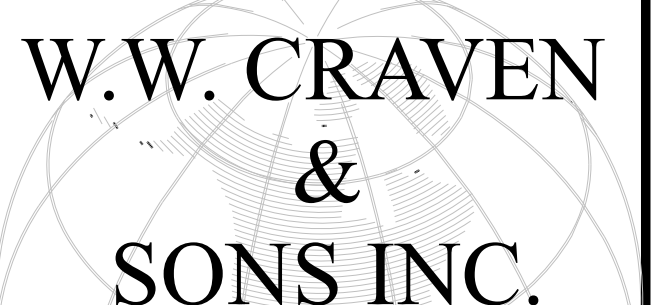
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NATIONAL-N.C. T-5-B-M-U-NS
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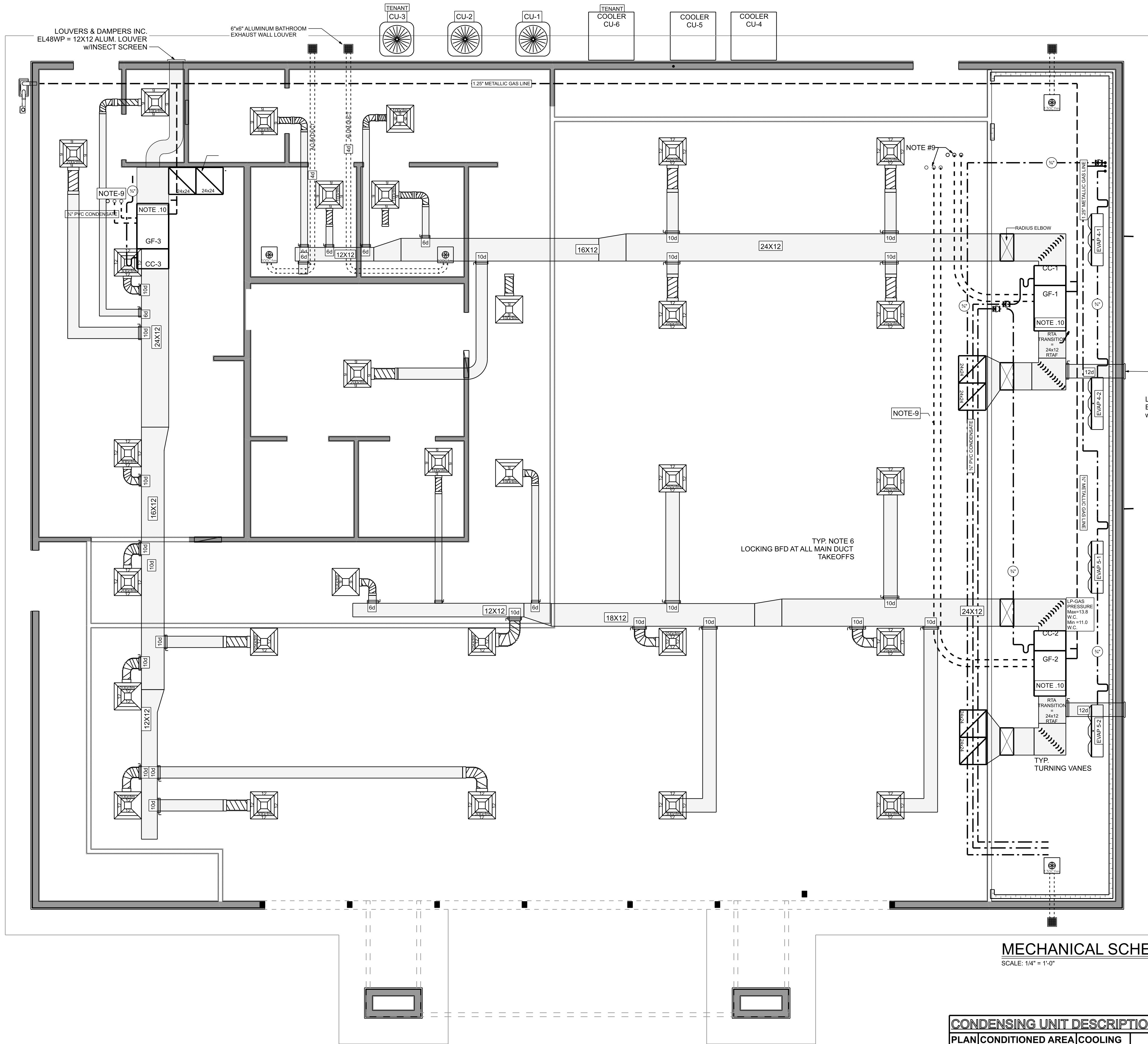
PAGE **P2**



W.W. CRAVEN
&
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COMMERCIAL ,RESIDENTIAL
DESIGN, PLANNING
CONSTRUCTION

P.O. BOX 353
GALES FERRY, CT. 06335
860-460-6388



INTAKE -EXHAUST=PROVIDE A MINIMUM OF 10'-0" CLEARANCE
INTAKE -VENTS=PROVIDE A MINIMUM OF 10'-0" CLEARANCE
COORDINATE POWER VENTING OF LP UNITS.

ELECTRICAL CONTR. SHALL PROVIDE CONDUITS AND BOXES FOR ALL AHU SMOKE DETECTORS ALARM SYSTEM
COORDINATE WITH MECH. CONTR. PROVIDE COPPER GROUND BOND TO ALL ELECTRICAL UTILIZATION EQUIPMENT.
NEC MINIMUM #12 COPPER BOND GROUND WIRE

WALK-IN-COOLER ,DRINK MACHINES , ICE MAKER, INCLUDING REFRIGERATION EQUIPMENT, REFRIGERANT PIPING
TO BE PROVIDED AND INSTALLED AND STARTED UP BY THE OWNER

TYPICAL AT EACH COIL
1" SCH. 40 PVC CONDENSATE DRAIN
TO NEAREST HUB DRAIN - MINIMUM
SLOPE 1/4"/FT.

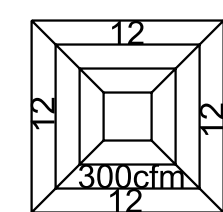
TYP. MAINTAIN MIN TO ALL
EXHAUST POINTS
10'-0"

LOUVERS & DAMPERS INC.
EL48WP = 12X12 ALUM. LOUVER
W/INSECT SCREEN

MECHANICAL NOTES

- ALL DUCTWORK DIMENSIONS SHOWN ARE NET INTERIOR DIMENSIONS .ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED TO THE LATEST SMACNA STANDARDS. INSULATE ALL SUPPLY,RETURN AND OUTSIDE AIR. DUCTWORK WITH 1.5" THICK .3lbs PER CUBIC FOOT DENSITY FOIL FACED FIBERGLAS DUCT INSULATION. STAPLED & TAPED TO EXTERIOR OF DUCT.
- CEILING SUPPLY DIFFUSERS IN LAY-IN CEILING AREAS SHALL BE TITUS #TMSA-AA WITH SQUARE TO ROUND ADAPTERS
AND VOLUME DAMPERS(FULL PANEL LAY-IN FOR 2'x2' GRID),IN DWB CEILING AREAS, SUPPLY DIFFUSERS SHALL BE TITUS #TDCA-AA WITH SQUARE TO ROUND ADAPTERS
CEILING RETURN AIR GRILLES SHALL BE TITUS 50F 0.5"x0.5"x0.5" w/SQ. TO RND ADAPTERS AND /OR PLENUM (FULL PANEL LAY-IN FOR A 2'x2' GRID), CEILING RETURN AIR GRILLES SHALL HAVE REMOVABLE CORES THAT CAN BE CLEANED.
- FLEXIBLE DUCTS FROM BRANCH DUCTWORK TO CEIL.DIFFUSERS SHALL BE GENFLEX
TYPE F146 INSULATED LOW PRESSURE THP
(WITH LOCKING BUTTERFLY DAMPER AT METAL DUCT TAKEOFF FITTING)
- APPROVE EQUIVALENT DIFFUSERS AND GRILLES BY ANEMOSTAT OR KRUGER WILL BE ACCEPTABLE.
- APPROVED EQUIVALENT AIR CONDITIONING EQUIPMENT BY AMERICAN STANDARD ,TRANE OR LENNOX WILL BE ACCEPTABLE
- ACU SHALL BE PROVIDED WITH SMOKE DETECTORS IN THE SUPPLY AND RETURN DUCTS.
PROVIDE AUDIBLE ALARMS IN THE SALES AREA WITH INDICATOR LABEL.
- ALL EQUIPMENT UNITS SHALL BE NUMBERED AND LABELED IN ACCORDANCE TO THE DESIGN .
PERMANENTLY AFFIX A WEATHERPROOF SIGN OR NUMBERS VISIBLE FROM REAR LOCATION AND TOP OF EACH UNIT.
- CO2 DETECTOR SHALL BE INSTALLED 36" MIN 6" MAX. HORIZ DISTANCE FROM -FIRST IN LINE SUPPLY DIFFUSER
- 4" SCHEDULE 40 PVC INTAKE AND EXHAUST PIPING FOR CONDENSING GAS FURNACES-PROVIDE AND INSTALL ALL ITEMS AS REQUIRED IN THE GAS FURNACE INSTALLATION MANUAL INCLUDING EXHAUST CONDENSATE OUTFALL PIPING (PIPE TO SUITABLE DRAIN)-ALL INTAKE AND EXHAUST PIPING SHALL BE INSULATED WITH 1/2" ARMAFLEX PIPE INSULATION-CONTRACTOR MAY DOWNSIZE INTAKE AND EXHAUST PIPING IF REDUCED SIZES/TOTAL DEVELOPED LENGTH REQUIREMENTS AS LISTED IN THE INSTALLATION MANUAL ARE MET AT EACH GF.
- HANG UNIT - PROVIDE UNISTRUT FASTENED TO MIN. 3 TRUSSES w/ 1-0.25"x 5" STRUCT SCREW AT EACH TRUSS AND 2@ each END
PROVIDE min 0.25" ALL THREADED ROD TO UNIT SUPPORT UNISTRUT. PROVIDE INSULATION AND PAN
ALL CONNECTION SHALL HAVE 1/2"x 1" dia. RUBBER ISOLATION WASHERS AT EACH SUPPORT.

CFM / DIFFUSER DESC.



INDICATES DIFFUSER SIZE
NUMBERED SIDES INDICATES
DIRECTIONAL SUPPLY AIR
4-NUMBERED SIDES SHOWN
INDICATE 4-WAY SUPPLY
INDICATES CFM

MECHANICAL SCHEDULE

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

CONDENSING UNIT DESCRIPTION

PLAN	CONDITIONED AREA	COOLING CAPACITY			UNIT ELECTRIC DATA					WEIGHT (LBS.)	MANUFACTURER	MODEL NUMBER
		NOMINAL TONS	MIN.(MBH) TOT/SEN	IEER	VOLTS/PHASE			MCA	MOCP			
CU-1	RETAIL AREA	5	60/47	13	208/1			34.7	60	246	AMERISTAR	M4AC3060A1000AA
CU-2	RETAIL AREA	5	60/47	13	208/1			34.7	60	246	AMERISTAR	M4AC3060A1000AA
CU-3	TENANT AREA	5	60/47	13	208/1			34.7	60	246	AMERISTAR	M4AC3060A1000AA

EXTERIOR DESIGN CONDITIONS

SEASON	DRY-BULB (DEG F)	WET-BULB (DEG F)	WIND (MPH&DIR)
SUMMER	94	82	7.0 S
WINTER	0	N/A	9 NW

GAS FURNACE DESCRIPTION

PLAN	CONDITIONED AREA	FAN DESC.				HEATING CAPACITY		UNIT ELECTRIC DATA					WEIGHT (LBS.)	MANUFACTURER	MODEL NUMBER
		NOMINAL CFM	ESP	HP	RPM	CAPACITY (MBH)		STAGES	VOLTS/PHASE	MCA	MOCP				
GF-1	RETAIL AREA	2000	.07	.75	VARIABLE	92.2		1	120/1	12.9	20	185		AMERISTAR	M951P100DU60AA
GF-2	RETAIL AREA	2000	.07	.75	VARIABLE	92.2		1	120/1	12.9	20	185		AMERISTAR	M951P100DU60AA
GF-3	TENANT AREA	2000	.07	.75	VARIABLE	92.2		1	120/1	12.9	20	185		AMERISTAR	M951P100DU60AA

COOLING COIL DESCRIPTION

PLAN	CONDITIONED AREA	TONS	MBH-TOT-SEN	IEER	MFR.-MODEL #
CC-1	RETAIL AREA	5	60/47	13	AMERISTAR #M4CX061BD1CAAA
CC-2	RETAIL AREA	5	60/47	13	AMERISTAR #M4CX061BD1CAAA
CC-3	TENANT AREA	5	60/47	13	AMERISTAR #M4CX061BD1CAAA

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DO NOT SCALE

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REVISIONS

NO.	DATE	BY	DESCRIPTION
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PHASE:

CONSTRUCTION SET

PROJECT DETAILS

NEW
BEST WAY CONVENIENCE
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271 HOP RIVER ROAD
BOLTON,CT

PREPARED FOR:

IMS PETROLEUM
271 HOP RIVER ROAD
BOLTON,CT.

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DRAWN BY
WWC

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M1

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