Permits: 410-313-2455
Inspections: 410-313-1810
Automated Line: 410-313-3800

Howard County Building/Fire Permit Application
Department of Inspections, Licenses & Permits
3430 Court House Drive
Ellicott City, MD 21043

Permit Number: B1200 3141

Building Address: 4301 MD Rte 32
Dayton, MD 21036
Suite/Apt. #: ____ SDP/WP/BA #: SDP 82-87
Census Tract. ____ Subdivision: ____
Section: ____ Area: ____ Lot: ____
Tax Map: ____ Parcel: ____ Grid: ____
Zoning: ____ Map Coordinates: ____ Lot Size: ____

Existing Use: Modular Office
Proposed Use: Modular Office
Estimated Construction Cost: $ 87,153
Description of Work: Remove existing modular office, install new 24'x60' w/ deck
Occupant or Tenant: Howard County DPW
Was tenant space previously occupied? ☐ Yes ☒ No
Contact Name: William Malone
Address: 4301 MD Rte 32
City: Dayton State: MD Zip Code: 21036
Phone: x7470 Fax: x7460
Email: wmalone@howardcountymd.gov

Property Owner's Name: Howard County Gov.
Address: 3430 Court House Dr.
City: Ellicott City State: MD Zip Code: 21043
Home Phone: — Work Phone: x4401
Applicant's Name & Mailing Address, (if other than stated herein):
William Malone
4301 MD Rte 32, Dayton, MD 21036
Phone: x7470 Fax: ~~x7460~~ x7260
Email: wmalone@howardcountymd.gov

Contractor Company: William Scottsman
Contact Person: Kami Petryszak
Address: 7539 Harmans Rd
City: Harmans State: MD Zip Code: 21077
License No.: 30602955
Phone: 410-487-8400 Fax: ____
Email: Kami.Petryszak

Engineer/Architect Company: Consulting Engineer
Responsible Design Prof.: James E. Bradley
Address: 212 Fox Trail
City: Pottsburg State: PA Zip Code: 19365
Phone: 610-857-2458 Fax: ____
Email: ____

BUILDING DESCRIPTION - COMMERCIAL

Building Characteristics	Utilities
Height: 12'	*Water Supply*
No. of stories: 1	☐ Public
Gross area, sq. ft./floor: 1440	☒ Private
	Sewage Disposal
Area of construction (sq. ft.): 1440	☐ Public
	☒ Private
Use group:	Electric ☒ Yes ☐ No
	Gas: ☐ Yes ☒ No
Construction type:	*Heating System*
☐ Reinforced Concrete	☒ Electric ☐ Oil
☐ Structural Steel	☐ Natural Gas ☐ Propane Gas
☐ Masonry	*Sprinkler System:*
☐ Wood Frame	☒ N/A
☒ State Certified Modular	☐ Full
Roadside Tree Project Permit	☐ Partial
☐ Yes ☒ No	☐ Other Suppression
Roadside Tree Project Permit #	No. of Heads:

BUILDING DESCRIPTION – RESIDENTIAL

Building Characteristics	*Utilities*
☐ SF Dwelling ☐ SF Townhouse	*Water Supply*
Depth Width	☐ Public
1st floor:	☐ Private
2nd floor:	*Sewage Disposal*
Basement:	☐ Public
☐ Finished Basement	☐ Private
☐ Unfinished Basement	Electric: ☐ Yes ☐ No
☐ Crawl Space	Gas: ☐ Yes ☐ No
☐ Slab on Grade	*Heating System*
No. of Bedrooms:	☐ Electric
Multi-family Dwelling	☐ Oil
No. of efficiency units:	☐ Natural Gas
No. of 1 BR units:	☐ Propane Gas
No. of 2 BR units:	
No. of 3 BR units:	
Other Structure:	
Dimensions:	
Footings:	Roadside Tree Project Permit
Roof:	☐ Yes ☐ No
☐ State Certified Modular	Roadside Tree Project Permit #
☐ Manufactured Home	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: [signature] Print Name: William F. Malone, Jr.
Email Address: wmalone@howardcountymd.gov Date: 9-19-12
Title/Company: Chief Bur Hwys / HoCoDPW

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY
PLEASE WRITE NEATLY & LEGIBLY
-FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health	9/24/13	[signature]
Fire Protection		

Is Sediment Control approval required for issuance? ☐ Yes ☐ No
☐ CONTINGENCY CONSTRUCTION START
☐ ONE STOP SHOP

redline is mfg

DPZ SETBACK INFORMATION
Front:
Rear:
Side:
Side St.:
All minimum setbacks met? ☐ Yes ☐ No
Is Entrance Permit Required? ☐ Yes ☐ No
Historic District? ☐ Yes ☐ No
Lot Coverage for New Town Zone:
SDP/Red-line approval date:

Filing Fee	$
Permit Fee	$
Tech Fee	$
Excise Tax	$
PSFS	$
Guaranty Fund	$
Add'l per Fee	$
Total Fees	$
Sub- Total Paid	$
Balance Due	$

Distribution of Copies: White: Building Officials Green: PSZA,Zoning Yellow: PSZA,Engineering Pink: Health Gold: SHA
T:\Operations\Updated Forms\New building app 11.10.2010.docx

renew

GENERAL NOTES:

1. ACCESS TO BUILDING FOR PERSONS IN WHEELCHAIRS IS DESIGNED BY AND FIELD BUILT BY OTHERS AND SUBJECT TO LOCAL JURISDICTION APPROVAL. THE PRIMARY ENTRANCE MUST BE ACCESSIBLE.
2. ALL DOORS SHALL BE OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS SHALL NOT BE USED.
3. ALL GLAZING WITHIN A 24 INCH ARC OF DOORS, WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR, AND ALL GLAZING IN DOORS SHALL BE SAFETY, TEMPERED OR ACRYLIC PLASTIC SHEET.
4. ALL STEEL STRAPS REFERENCED ON FLOOR PLAN SHALL BE 1.5 INCH x 26 GA. WITH 8 – 15 GA. x 7/16 INCH CROWN x 1 INCH STAPLES EACH END OF STRAP OR EQUIVALENT FROM RIDGE BEAM TO COLUMN, AND COLUMN TO FLOOR.
5. PORTABLE FIRE EXTINGUISHER PER N.F.P.A.–10 (INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.
6. PROVISIONS FOR EXIT DISCHARGE LIGHTING ARE THE RESPONSIBILITY OF THE BUILDING OWNER AND SUBJECT TO LOCAL JURISDICTION APPROVAL WHEN NOT SHOWN ON THE FLOOR PLAN (INCLUDING EMERGENCY LIGHTING, WHEN REQUIRED).
7. WHEN LOW SIDES OF ROOF PROVIDE LESS THAN 6" OF OVERHANG, GUTTERS AND DOWN SPOUTS SHALL BE SITE INSTALLED, DESIGNED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
8. IN WIND–BORNE DEBRIS REGIONS, EXTERIOR GLAZING SHALL BE IMPACT RESISTANT OR PROTECTED WITH AN IMPACT RESISTANT COVERING MEETING THE REQUIREMENTS OF AN APPROVED IMPACT RESISTANT STANDARD, OR ASTM E1996. WIND–BORNE DEBRIS REGIONS ARE DESIGNATED IN SECTION 1609 OF THE IBC.
9. WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN PRESSURE FOR COMPONENTS AND CLADDING.
10. STRUCTURAL DETAILS NOT INCLUDED IN THIS PLAN SET ARE TO BE CONSTRUCTED ACCORDING TO THE MANUFACTURERS STATE APPROVED BUILDING SYSTEM MANUAL.

ELECTRICAL NOTES:

1. ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC).
2. WHEN LIGHT FIXTURES ARE INSTALLED IN CLOSETS THEY SHALL BE SURFACE MOUNTED OR RECESSED. INCANDESCENT FIXTURES SHALL HAVE COMPLETELY ENCLOSED LAMPS. SURFACE MOUNTED INCANDESCENT FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 12 INCHES AND ALL OTHER FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 6 INCHES FROM "STORAGE AREA" AS DEFINED BY NEC 410–8(g).
3. WHEN WATER HEATERS ARE INSTALLED THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATERS SERVED. THE BRANCH CIRCUIT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS WITHIN SIGHT FROM THE WATER HEATER OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
4. HVAC EQUIPMENT SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT SERVED. A UNIT SWITCH WITH A MARKED "OFF" POSITION THAT IS A PART OF THE HVAC EQUIPMENT AND DISCONNECTS ALL UNGROUNDED CONDUCTORS SHALL BE PERMITTED AS THE DISCONNECTING MEANS WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A READILY ACCESSIBLE CIRCUIT BREAKER.
5. PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM THE INTERRUPTING RATING OF THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED AS BEING IN COMPLIANCE WITH SECTION 110–9 OF THE NEC BY LOCAL ELECTRICAL CONSULTANT.
6. THE MAIN ELECTRICAL PANEL AND FEEDERS ARE DESIGNED BY OTHERS, SITE INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
7. ALL CIRCUITS CROSSING OVER MODULE MATING LINE(S) SHALL BE SITE CONNECTED WITH APPROVED ACCESSIBLE JUNCTION BOXES, OR CABLE CONNECTORS.
8. ALL RECEPTACLES INSTALLED IN WET LOCATIONS (EXTERIOR) SHALL BE IN WEATHER PROOF (WP) ENCLOSURES. THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN AN ATTACHMENT PLUG CAP IS INSERTED OR REMOVED. THE RECEPT ITSELF SHALL ALSO BE LISTED FOR DAMP AND WET LOCATIONS AS PER 2011 NEC.
9. EXTERIOR LIGHTS NOT INTENDED FOR 24 HOUR USE SHALL BE CONNECTED TO A PHOTOCELL OR TIMER.

PLUMBING NOTES:

1. TOILETS SHALL BE ELONGATED WITH NONABSORBENT OPEN FRONT SEATS.
2. REST ROOM WALLS SHALL BE COVERED WITH NONABSORBENT MATERIAL TO A MINIMUM HEIGHT OF 48 INCHES A.F.F. FLOORS SHALL HAVEA SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 6 INCHES.
3. THIS UNIT MUST BE CONNECTED TO A PUBLIC WATER SUPPLY AND SEWER SYSTEM IF THESE ARE AVAILABLE.
4. ALL PLUMBING FIXTURES SHALL HAVE SEPARATE SHUTOFF VALVES.
5. WATER HEATER SHALL HAVE SAFETY PAN WITH 1 INCH DRAIN TO EXTERIOR, T & P RELIEF VALVE WITH DRAIN TO EXTERIOR, AND A SHUT OFF VALVE WITHIN 3 FEET ON A COLD WATER SUPPLY LINE.
6. DWV SYSTEM SHALL BE EITHER ABS OR PVC – DWV.
7. WATER SUPPLY LINES SHALL BE CPVC, OR COPPER; AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS LIMITATIONS AND INSTRUCTIONS.
8. WATER CLOSETS ARE TANK TYPE AND URINALS ARE FLUSH TANK TYPE UNLESS OTHERWISE SPECIFIED.
9. BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
10. SHOWERS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 120°F (48.8°C).
11. THERMAL EXPANSION DEVICE, IF REQUIRED BY WATER HEATER INSTALLED, AND IF NOT SHOWN ON PLUMBING PLAN, IS DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL APPROVAL.
12. WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION. WATER PIPING INSTALLED IN AN UNCONDITIONED ATTIC SHALL BE INSULATED WITH AN INSULATION OF R–6.5 MINIMUM.
13. PIPING IN UNCONDITIONED SPACES MUST BE PROTECTED WITH INSULATION HAVING A MINIMUM R FACTOR OF 6.5 IN ACCORDANCE WITH SECTION 305.6.
14. THE USE OF THIS BUILDING WITHOUT THE REQUIRED DRINKING FOUNTAIN IS SUBJECT TO APPROVAL BY AUTHORITY HAVING JURISDICTION.
15. CUSTOMER ASSUMES ALL RESPONSIBILITY FOR DRINKING WATER FACILITIES AND WHEN NOT SHOWN ON FLOOR PLAN.

MECHANICAL NOTES:

1. ALL SUPPLY AIR REGISTERS SHALL BE 10 INCHES x 10 INCHES ADJUSTABLE WITH 10 INCHES x 20 INCHES (INSIDE) OVERHEAD FIBERGLASS DUCT, UNLESS OTHERWISE SPECIFIED. DUCTS IN UNCONDITIONED SPACES SHALL HAVE R–5 MINIMUM INSULATION EXCEPT DUCTS EXPOSED TO VENTILATED ATTICS AND CRAWL SPACES SHALL HAVE R–6.5 INSULATION.
2. INTERIOR DOORS SHALL BE UNDERCUT 1.5 INCHES ABOVE FINISHED FLOOR FOR AIR RETURN AND/OR AS NOTED ON FLOOR PLAN.
3. HVAC EQUIPMENT SHALL BE EQUIPPED WITH OUTSIDE FRESH AIR INTAKES PROVIDING 20 CFM PER OCCUPANT.
4. EXHAUST FANS SHALL PROVIDE A MINIMUM OF 75 CFM FOR EACH WATER CLOSET AND URINAL.
5. VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.

ELECTRICAL SCHEDULE 'A'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	60A(2P)	6–2 #10 GRND.
2, 4	RECEPTACLES	20 A	12–2 NM
5, 7	LIGHTING/FAN	20 A	12–2 NM

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'A'	KVA
GENERAL LIGHTING		
.0035 KW/SF X 845 SF X 1.25=		3.7
7 RECEPTS AT 180VA/1000=		1.3
WATER HEATER 6.5 KW =		–
1 FAN(S) AT .3 KW X 1.25=		.4
HVAC		10.5

TOTAL 15.9 KW
TOTAL/240 X 1000= 67 AMPS
INSTALL 100 AMP PANEL
120/240 V 1ø

ELECTRICAL SCHEDULE 'B'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	60A(2P)	6–2 #10 GRND.
6, 8	WATER HEATER	30 A(2P)	10–2 NM
2, 4	RECEPTACLES	20 A	12–2 NM
5, 7	LIGHTING/FAN	20 A	12–2 NM

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'A'	KVA
GENERAL LIGHTING		
.0035 KW/SF X 555 SF X 1.25=		2.5
8 RECEPTS AT 180VA/1000=		1.5
WATER HEATER 6.5 KW =		6.5
2 FAN(S) AT .3 KW X 1.25=		.8
HVAC		10.5

TOTAL 21.8 KW
TOTAL/240 X 1000= 91 AMPS
INSTALL 100 AMP PANEL
120/240 V 1ø

APPROVED **RADCO** APPROVED
Aug 24, 2012
P.WITHERINGTON

SITE INSTALLED ITEMS

THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY THE MANUFACTURER, HAVE NOT BEEN INSPECTED BY RADCO AND ARE NOT CERTIFIED BY THE STATE MODULAR LABEL. NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIAL THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL. CODE COMPLIANCE MUST BE DETERMINED AT THE LOCAL LEVEL.

1. THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM.
2. RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
3. PORTABLE FIRE EXTINGUISHER(S).
4. BUILDING DRAINS, CLEANOUTS, DRINKING FOUNTAIN, AND HOOK–UP TO PLUMBING SYSTEM.
5. ELECTRICAL SERVICE HOOK–UP (INCLUDING FEEDERS) TO THE BUILDING.
6. THE MAIN ELECTRICAL PANEL AND SUB–FEEDERS
7. CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATELINE(S) – (MULTI–UNITS ONLY).
8. STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI–UNITS ONLY).
9. EXIT DISCHARGE LIGHTING (INCLUDING EMERGENCY)
10. WINDOW AND DOOR HIGH WIND STORM COVERINGS (PER CODE) SEE GENERAL NOTE 8.

STRUCTURAL LOAD LIMITATIONS

BUILDING OCCUPANCY CATEGORY: II
BUILDING RISK CATEGORY: II

FLOOR LIVE LOAD:
A. 50 PSF
B. 2000 LB. CONCENTRATED LOAD OVER 30 INCH x 30 INCH AREA LOCATED ANYWHERE ON FLOOR

ROOF LIVE LOAD:
A. 20 PSF

ROOF SNOW LOAD:
A. Pg = 35 PSF GROUND SNOW LOAD
B. Pf = 27.5 PSF FLAT ROOF SNOW LOAD
C. Ce = 1.0 SNOW EXPOSURE FACTOR
D. Is = 1.0 SNOW IMPORTANCE FACTOR
E. Ct = 1.1 SNOW THERMAL FACTOR

WIND LOAD: ASCE 7–10
A1. Vult = 130 MPH WIND SPEED
A2. Vasd = 95 MPH WIND SPEED
B. Iw = 1.0 WIND IMPORTANCE FACTOR
C. C WIND EXPOSURE CATEGORY
D. GCpi= 0.18 INTERNAL PRESSURE COEFFICIENT
E. Pr: ZONE 1: 34.6 PSF Pw: ZONE 4: 38.2 PSF
ZONE 2: 55.2 PSF ZONE 5: 46.0 PSF
ZONE 3: 92.9 PSF

F. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.

SEISMIC LOAD:
A. Ie = 1.0 SEISMIC IMPORTANCE FACTOR
B. D SITE CLASS
C. A13 SEISMIC FORCE RESISTING SYSTEM.
D. C SEISMIC DESIGN CATEGORY
E. EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE
F. Ss = ≤ .537 MAPPED SPECTRAL RESPONSE COEF.
G. S1 = ≤ .285 MAPPED SPECTRAL RESPONSE COEF.
H. Sds = ≤ .49 SPECTRAL RESPONSE COEFFICIENT
I. Sd1 = ≤ .19 SPECTRAL RESPONSE COEFFICIENT
J. V = 3256 LB DESIGN BASE SHEAR
K. R = 6.5 RESPONSE MODIFICATION COEFFICIENT
L. Cs = 0.08 SEISMIC RESPONSE COEFFICIENT

FLOOD LOAD:
THIS BUILDING IS NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA.

BUILDING DESIGN PARAMETERS

1.	USE/OCCUPANCY:	BUSINESS
2.	CONSTRUCTION TYPE:	VB
3.	SPRINKLER SYSTEM:	NO
4.	BUILDING AREA:	1400 S.F.
5.	BUILDING HEIGHT:	≤ 15 FEET
6.	NUMBER OF STORIES:	1
7.	NUMBER OF MODULES:	2
8.	OCCUPANT LOAD 14 BASED ON 100 SF/PERSON	
9.	EXTERIOR WALL FIRE RATING:	NOT RATED

10. THIS BUILDING MUST BE INSTALLED WITH THE FIRE SEPARATION DISTANCES REQUIRED BY IBC TABLE 602 AND SECTION 704.3.
11. ENGERGY CODE COMPLIANCE: SEE ATTACHED ENERGY CALCULATIONS.
12. MANUFACTURERS DATA PLATE, STATE LABELS AND RADCO LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL.

MARYLAND NOTES:

1. REFER TO STATE PACKAGE PAGE NO. D24.0 FOR REQUIRED DUCT PROTECTION AT CONNECTION TO HVAC UNIT.
2. THE FOLLOWING NOTE SHALL BE ON THE BLDG. DATA PLATE: THIS BUILDING HAS NOT BEEN DESIGNED FOR AND IS NOT APPROVED FOR INSTALLATION IN THE FOLLOWING MARYLAND COUNTIES:
BALTIMORE, GARRETT, ALLEGANY
3. HVAC SYSTEM SHALL COMPLY WITH NFPA 90B WHEN BUILDING VOLUME DOES NOT EXCEED 25,000 CUBIC FEET, OTHERWISE HVAC SYSTEM SHALL COMPLY WITH NFPA 90A.
4. THESE PLANS ARE PREPARED TO FACILITATE CONSTRUCTION OF THE PRE–ENGINEERED FACTORY BUILT MODULAR BUILDING, AND THEY INCLUDE MINIMUM ON–SITE SUPPORT AND TIE DOWN REQUIREMENTS FOR THE MODULAR BUILDING. THE PROJECT ARCHITECT OF RECORD IS RESPONSIBLE FOR INCORPORATION AND COORDINATION OF THESE PLANS INTO THE OVERALL PROJECT DESIGN.
5. TO LOCAL BUILDER AND/OR SITE DEVELOPER: ALL SITE WORK INCLUDING THE LOCATION OF THE BUILDING, IS REQUIRED TO BE REVIEWED AND APPROVED BY A MD. REG. ARCH. OR ENG. TO VERIFY CODE COMPLIANCE INCLUDING BUT NOT LIMITED TO FIRE RESISTANCE RATINGS FOR EXTERIOR PROTECTION, MEANS OF EGRESS, HEIGHT AND AREA LIMITATIONS. OTHER PERTINENT SITE RELATED MATTERS. DOCUMENTS RALATED TO SITE WORK, INCLUDING SITE AND DEVELOPMENT DRAWINGS, SHALL BE SUBMITTED TO THE LOCAL GOVERNMENT AGENCY FOR REVIEW AND APPROVAL.

WINDOW & DOOR SPECIFICATIONS

1. DBL. PANE WINDOWS ARE REQUIRED FOR ALL CLIMATE ZONES. SEE THE COMCHECK ENERGY CALCULATIONS FOR THE MAXIMUM ALLOWED U–FACTOR AND SHGC.
2. THE MAXIMUM ALLOWABLE WINDOW AIR LEAKAGE RATE IS 0.3 CFM PER SQUARE FEET OF WINDOW AREA.
3. THE MAXIMUM ALLOWABLE EXTERIOR DOOR AIR LEAKAGE RATE IS 0.5 CFM PER SQUARE FEET OF DOOR AREA.

ACCESSIBILITY NOTES:

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
2. ACCESSIBLE DRINKING FOUNTAINS SHALL HAVE A SPOUT HEIGHT NO HIGHER THAN 36 INCHES ABOVE THE FLOOR AND EDGE OF BASIN NO HIGHER THAN 34 INCHES ABOVE THE FLOOR FOR INDIVIDUALS IN WHEELCHAIRS. ADDITIONALLY, DRINKING WATER PROVISIONS SHALL BE MADE FOR INDIVIDUALS WHO HAVE DIFFICULTY BENDING.
3. WHERE STORAGE FACILITIES SUCH AS CABINETS, SHELVES, CLOSETS AND DRAWERS ARE PROVIDED AT LEAST ONE TYPE PROVIDED SHALL CONTAIN STORAGE SPACE COMPLYING WITH THE FOLLOWING: DOORS ETC. TO SUCH SPACES SHALL BE ACCESSIBLE (I.E. TOUCH LATCHES, U–SHAPED PULLS); SPACES SHALL BE 15 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR FOR FORWARD REACH OR SIDE REACH; CLOTHES RODS OR COAT HOOKS SHALL BE A MAXIMUM OF 48 INCHES ABOVE THE FLOOR (46 INCHES MAXIMUM WHEN DISTANCE FROM WHEEL CHAIR TO ROD EXCEEDS 10 INCHES). SHELVES IN KITCHENS OR TOILET ROOMS SHALL BE 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE IN FLOOR.
4. CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE NO HIGHER THAN 48 INCHES ABOVE THE FLOOR. RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15 INCHES ABOVE THE FLOOR. EXCEPTION; HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.
5. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOM, AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING, WHICH–EVER IS LOWER.
6. ALL DOORS SHALL BE OPENABLE BY A SINGLE EFFORT. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM. THE MAXIMUM FORCE REQUIRED FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL NOT EXCEED 5 LBS. FOR ALL SLIDING, FOLDING, AND INTERIOR HINGED DOORS.
7. FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP–RESISTANT. CHANGES IN LEVEL BET–WEEN 0.25 INCH AND 0.5 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 CHANGES IN LEVEL GREATER THAN 0.5 INCH REQUIRE RAMPS. CARPET PILE THICKNESS SHALL BE 0.5 MAX. GRATINGS IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5 INCH WIDE IN ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.
8. ACCESSIBLE WATER CLOSETS SHALL BE 17 INCHES TO 19 INCHES, MEASURED FROM THE FLOOR TO THE TOP OF THE SEAT. GRAB BARS SHALL BE 36 INCHES LONG MINIMUM WHEN LOCATED BEHIND WATER CLOSET AND 42 INCHES MINIMUM WHEN LOCATED ALONG SIDE OF WATER CLOSET, AND SHALL BE MOUNTED 33 INCHES TO 36 INCHES ABOVE THE FLOOR. IN ADDITION, A VERTICAL GRAB BAR 18 INCHES MINIMUM IN LENGTH SHALL BE MOUNTED ON THE SIDEWALL WITH THE BOTTOM OF THE BAR LOCATED BETWEEN 39 AND 41 INCHES ABOVE THE FLOOR, AND WITH THE CENTER LINE OF THE BAR LOCATED BETWEEN 39 INCHES AND 41 INCHES FROM THE REAR WALL.
9. ACCESSIBLE URINALS SHALL BE STALL–TYPE OR WALL HUNG WITH ELONGATED RIMS AT A MAXIMUM OF 17 INCHES ABOVE THE FLOOR.
10. ACCESSIBLE LAVATORIES AND SINKS SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34 INCHES ABOVE THE FLOOR. KNEE CLEARANCE OF AT LEAST 27 INCHES HIGH MUST BE PROVIDED WITH A MINIMUM DEPTH OF 8 INCHES BENEATH THE FIXTURE, AND 9 INCHES HIGH MINIMUM WITH A MINIMUM DEPTH OF 11 INCHES BENEATH THE FIXTURE. THE KNEE SPACE MUST BE AT LEAST 30 INCHES WIDE.
11. HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. INSULATION OR PROTECTION MATERIALS MAY BE SITE INSTALLED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER ACCESSIBLE LAVATORIES AND SINKS.
12. ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESIBLE FAUCETS (I.E. LEVER–OPERATED, PUSH TYPE, ELECTRONICALLY CONTROLLED).
13. MIRRORS LOCATED ABOVE LAVATORIES, SINKS OR COUNTERS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE A MAXIMUM OF 40 INCHES ABOVE THE FLOOR. OTHER MIRRORS IN TOILET ROOMS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAXIMUM ABOVE THE FLOOR.
14. GRAB BARS HAVING A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1.25 INCHES MINIMUM AND 2.0 INCHES MAXIMUM. THE SPACE BETWEEN THE GRAB BAR AND THE WALL SHALL BE 1.5 INCHES.
15. WATER CLOSET FLUSH CONTROL SHALL BE INSTALLED A MAXIMUM OF 36 INCHES ABOVE THE FLOOR AND SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.
16. DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (I.E. LEVER – OPERRATED, PUSHTYPE, U–SHAPED) MOUNTED WITH OPERABLE PARTS BETWEEN 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR.
17. TOILET STALL DOORS SHALL BE THE SELF–CLOSING TYPE.
18. A TOWEL DISPENSER SHALL BE LOCATED ADJACENT TO ALL ACCESSIBLE LAVTORIES.

CODE SUMMARY:

STATE	BUILDING	ELECTRICAL	MECHANICAL	PLUMBING	ACCESSIBILTY	ENERGY CODE
MARYLAND	2012 IBC W/ MD AMENDS. 2009 NFPA 101 W/MD AMENDS	2011 NEC	2012 IMC.	2012 IPC W/ MD. AMEND.	ADAAG	2012 IECC

PROFESSIONAL CERTIFICATION:

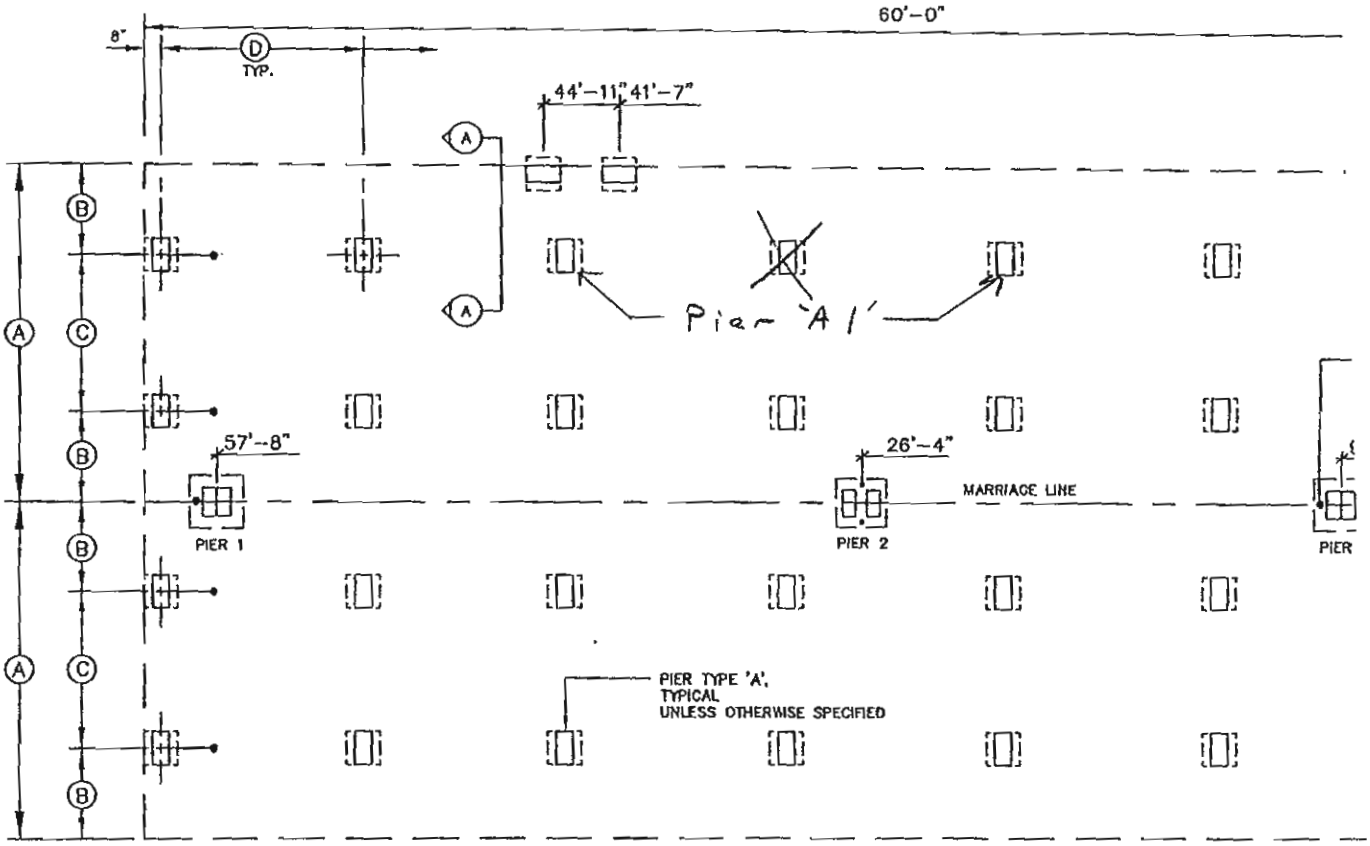
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 8588
EXPIRATION DATE: 6–6–14

STATE OF MARYLAND
JAMES E. BRADLEY
August 24, 2012
No. 8588
PROFESSIONAL ENGINEER

CONSULTING ENGINEER | JAMES BRADLEY, P.E. – 212 FOX TRAIL – PARKESBURG, PA. 19365 – (610) 857–2458

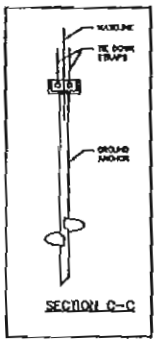
SPECIALIZED STRUCTURES INC.
2400 SPRINGHEAD ROAD WILLACOOCHEE, GA 31650
1–912–384–7565 FAX: 1–912–384–4943

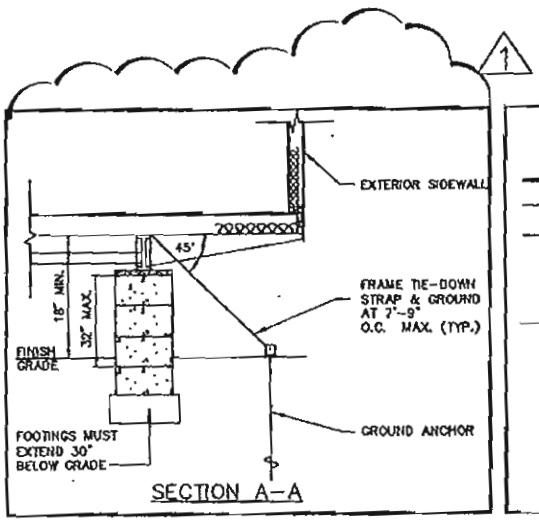
DATE: 6–28–12	THIRD PARTY: RADCO 5456 CRENSHAW ST. TAMPA, FLORIDA 33634 813–243–0370
SCALE : AS NOTED	
CODES: MD.	
LABELS: RADCO	REVISIONS: BY: J.B.
SSI4057 24 x 60 BUSINESS	SHEET
FRAME SIZE: (2) 11'–8" x 60'–0"	
COVER SHEET	DESTINATION: DAYTON — 1 OF 6

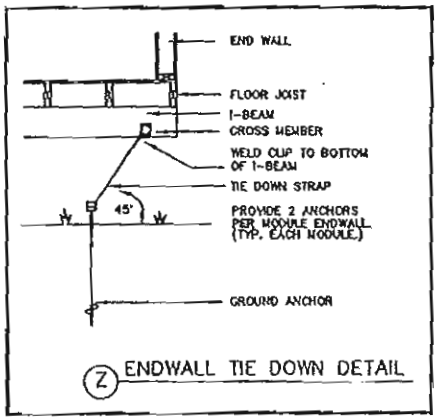


MARRIAGE WALL PIER REQUIREMENTS

PIER NUMBER	MINIMUM SOIL BEARING CAPACITY	PIER TYPE	NUMBER OF VERTICAL TIE DOWN STRAPS REQ'D (EACH MODULE)
1	2000 PSF	D	1
	3000 PSF	C	1
2		D	2
		C	2







APPROVED **RADCO** APPROVED
Oct 14, 2012
R.JOHNSON

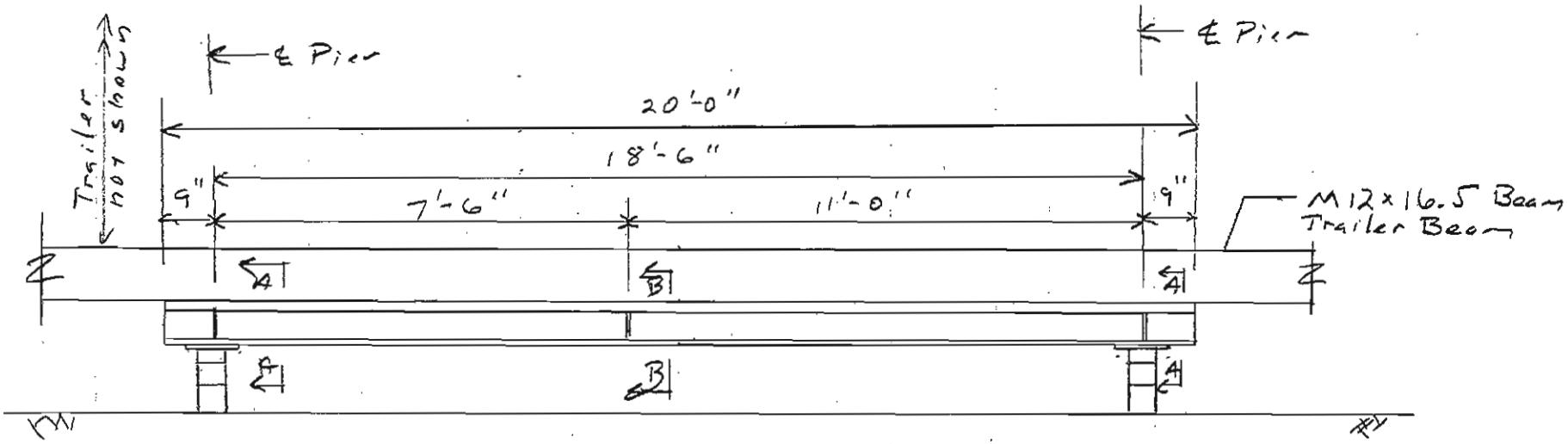
FOUNDATION DIMENSIONS

A MODULE WIDTH	B PIER TO MODULE EDGE	C STEEL BEAM SPACING
11'-8"	22 1/4"	95 1/2"

D MAXIMUM PIER SPACING	MINIMUM SOIL BEARING CAPACITY
6'-8"	2000 PSF
8'-9"	3000 PSF

DESIGN LOADS

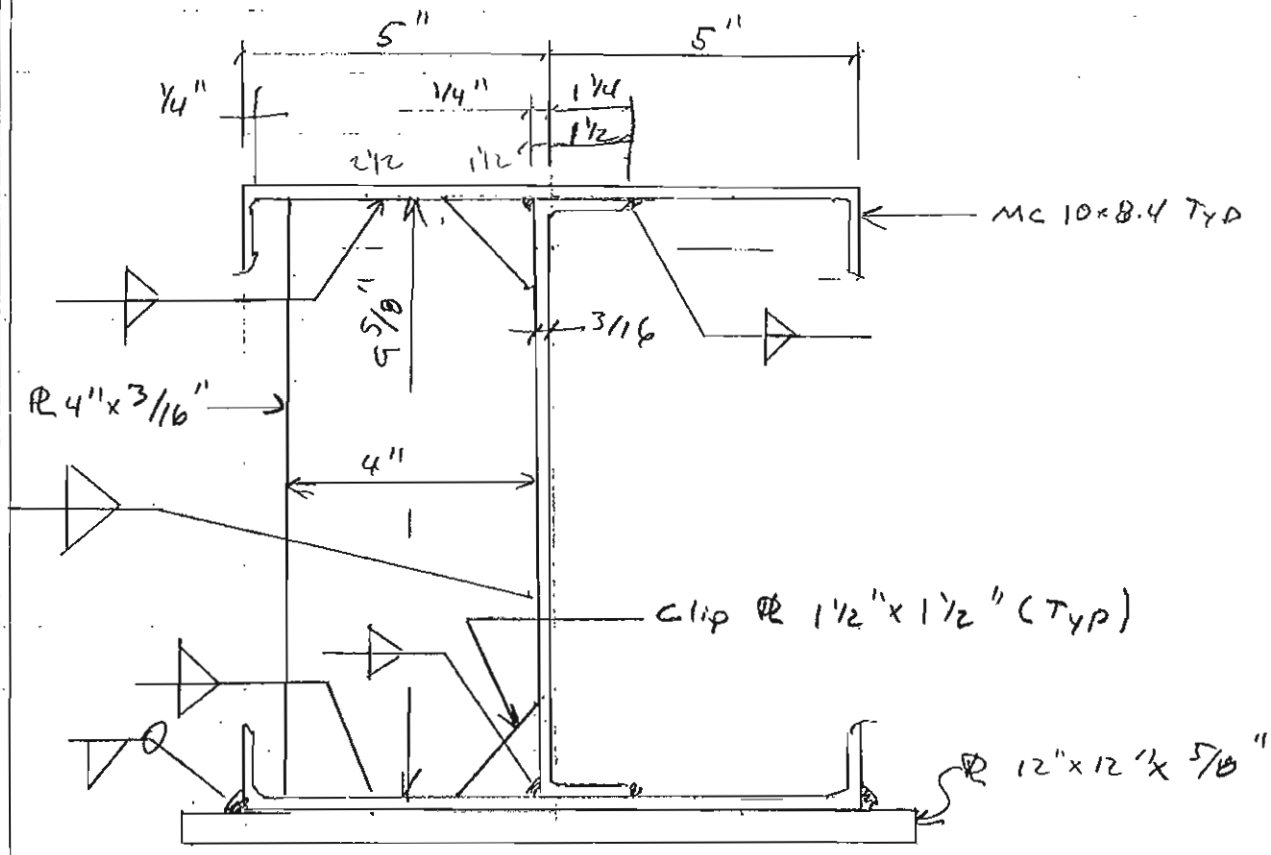
WIND SPEED: 130 MPH	ROOF LIVE LOAD: 20 PSF
BLDG. EXPOSURE: EXP. C	SNOW LOAD: 35 PSF



Auxiliary Support Beam

1" = 3'

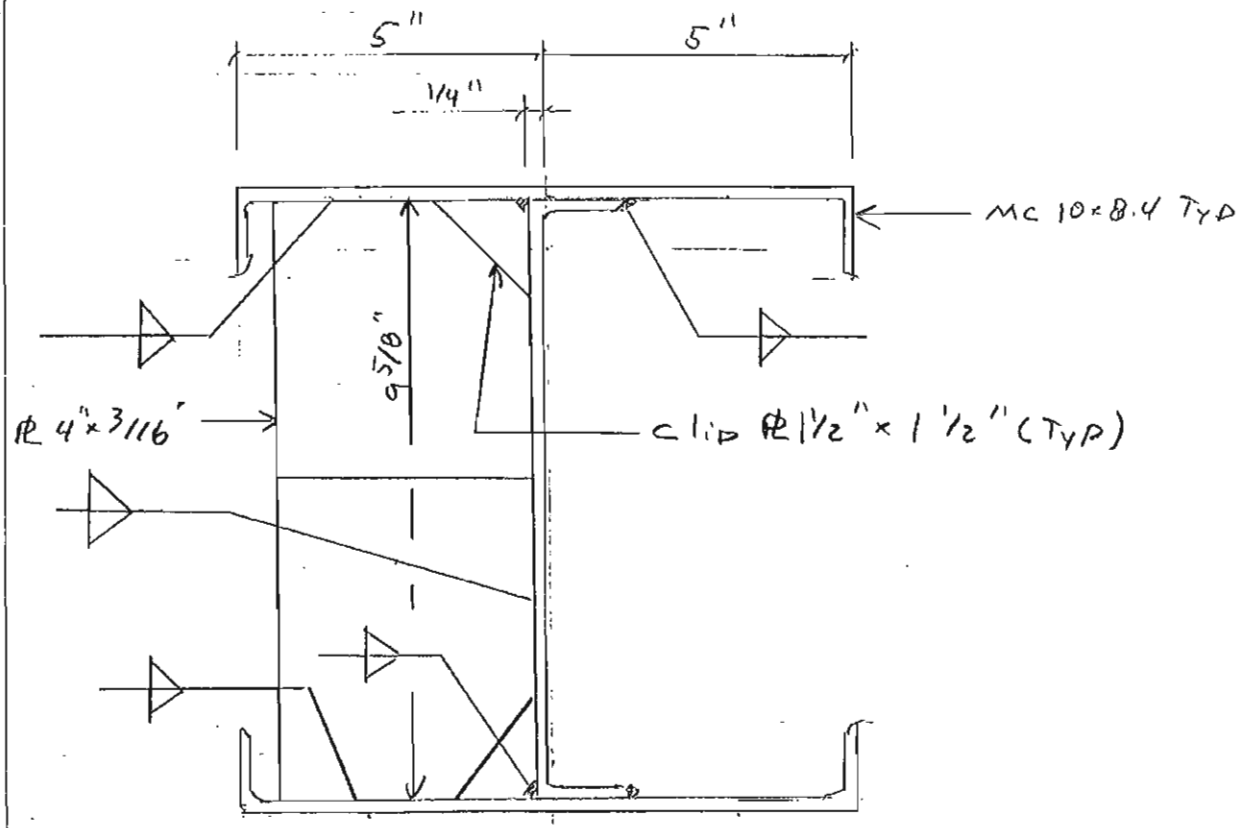
Note: Auxiliary Support Beam to be used where existing pier cannot be re-used as shown



Auxiliary Support Beam

SECTION A-A

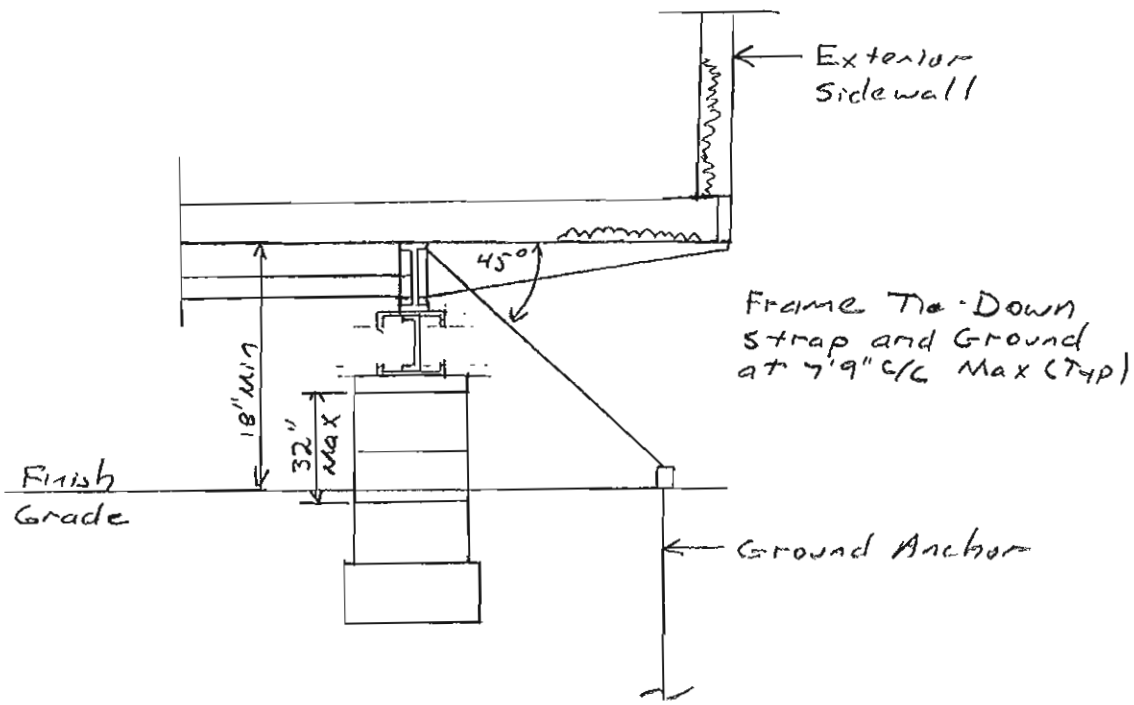
1" = 3"



Auxiliary Support Beam

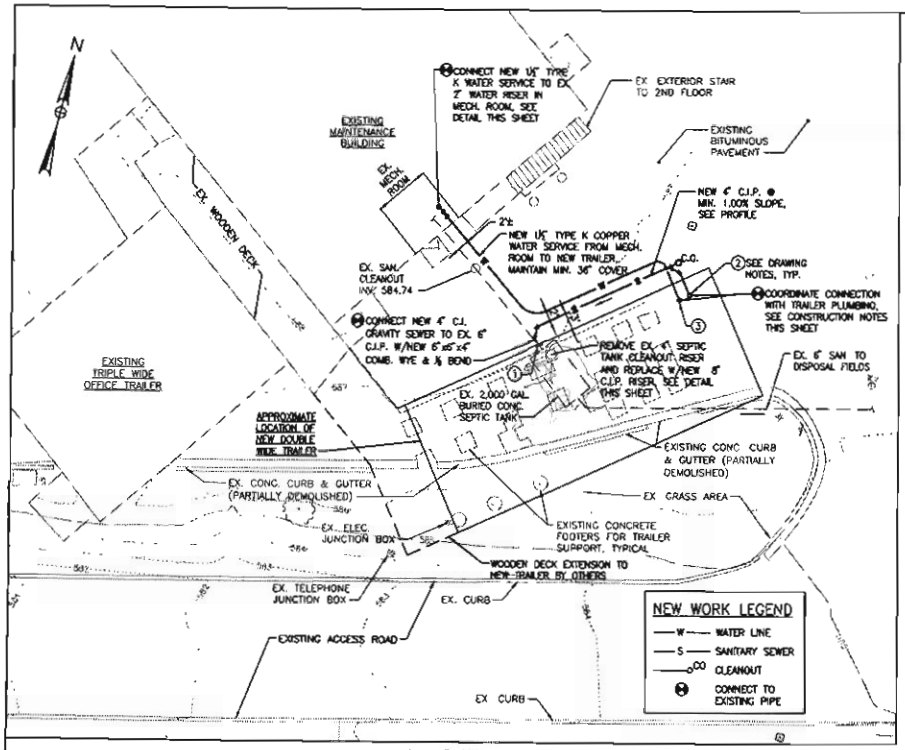
SECTION B-B

1" = 3"



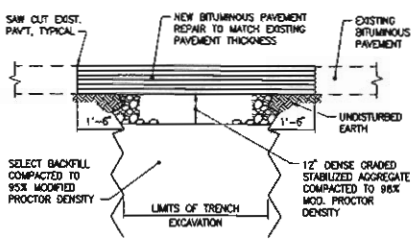
SECTION A-A

PIER 'A1'

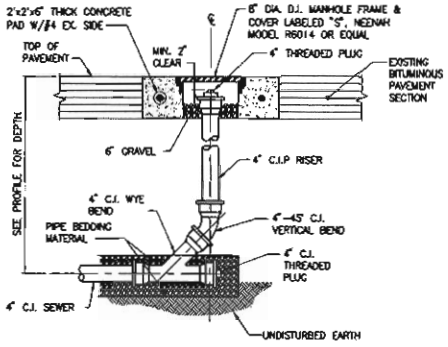


SITE PLAN
SCALE 1" = 10'

HORIZ. SCALE: 1" = 10'
10 5 0 10 20



NEW BITUMINOUS PAVEMENT REPAIR DETAIL
NOT TO SCALE



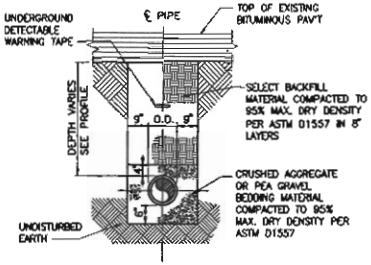
GRAVITY SEWER CLEANOUT DETAIL
NOT TO SCALE

GENERAL CONSTRUCTION NOTES

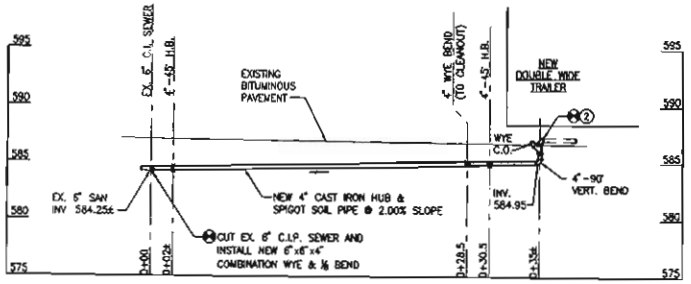
1. THOROUGHLY INSPECT THE SITE PRIOR TO CONSTRUCTION TO VERIFY EXISTING CONDITIONS AND PROVIDE ALL NECESSARY STAKE OUT OF LINE AND GRADE FOR PIPE INSTALLATION.
2. COORDINATE ALL WORK AND PROJECT SCHEDULES WITH THE MAINTENANCE FACILITY SUPERVISOR AND OBTAIN APPROVAL PRIOR TO MAKING CONNECTIONS TO EXISTING WATER AND SEWER PIPING. CONTRACTOR SHALL MAINTAIN UNINTERRUPTED WATER AND SEWER SERVICE TO THE FACILITY EXCEPT WHERE SPECIFICALLY AUTHORIZED BY THE FACILITY SUPERVISOR.
3. ALL EXCAVATION, TRENCHING, SHEETING AND BRACING SHALL BE INSTALLED AS REQUIRED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS INCLUDING O.S.H.A.
4. PROVIDE ADEQUATE BARRICADES AROUND TRENCH HOLE EXCAVATIONS AS SPECIFIED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL.
5. EXISTING PAVEMENT SHALL BE SAW CUT WITH NEAT, CLEAN, PARALLEL, STRAIGHT LINES. GRADES OF NEW PAVEMENT SHALL BLEND SMOOTHLY WITH EXISTING GRADES.

DRAWING NOTES

1. PROVIDE 30" WIDE REMOVABLE SECTION AT BOTTOM OF NEW TRAILER SKIRT TO ALLOW FOR ACCESS TO SEPTIC TANK CLEANOUT LOCATED UNDER NORTH SIDE OF TRAILER (SEE SITE PLAN THIS SHEET)
2. CONNECT NEW 4" C.I.P. UNDERGROUND SEWER TO NEW TRAILER C.I. RISER PIPE UNDER TRAILER. ALL EXPOSED SANITARY WASTE & VENT PIPING UNDER TRAILER SHALL BE INSULATED WITH 1" FLEXIBLE ELASTOMERIC WITH ALUMINUM JACKET.
3. CONNECT NEW 1½" UNDERGROUND TYPE K COPPER WATER SERVICE TO NEW 1½" WATER LINE UNDER TRAILER. ALL EXPOSED WATER SERVICE PIPING UNDER TRAILER SHALL BE HEAT TRACED (5 WATTS/LF) AND INSULATED WITH 1" FLEXIBLE ELASTOMERIC WITH ALUMINUM JACKET.

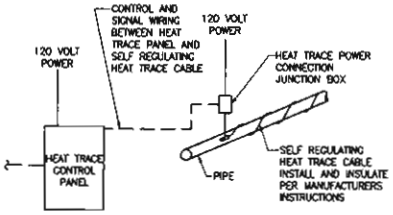


WATER/SEWER TYPICAL PIPE TRENCH DETAIL
NOT TO SCALE

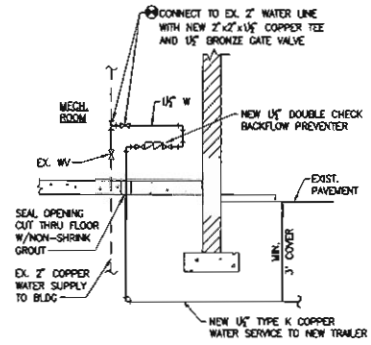


4" C.I. SEWER PROFILE
SCALE 1" = 5' VERT. & HORIZ.

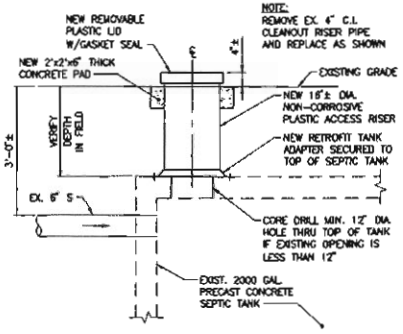
HORIZ. SCALE: 1" = 5'
5 2.5 0 5 10



HEAT TRACING DETAIL
NOT TO SCALE



1-1/2" WATER SERVICE CONNECTION DETAIL
NOT TO SCALE



NEW CLEANOUT ACCESS RISER AT EXISTING SEPTIC TANK
NOT TO SCALE

DTM	1	SDP 82-87 REDLINE NO. 1 (NEW SHEET)	9/2012
DES: RDT			
DRN: CDF/JRG			
CHK: DTM			
DATE: 08/14/13	BY	NO. REVISION	DATE

OWNER:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
4301 STATE ROUTE 32
DAYTON, MD 21036

DEVELOPER:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
COLUMBIA, MARYLAND 21045

DAYTON HIGHWAY MAINTENANCE FACILITY
SDP REDLINE

WATER AND SEWER SERVICE TO NEW DOUBLE-WIDE TRAILER

SHEET 2A OF 6

UNDISTURBED EARTH

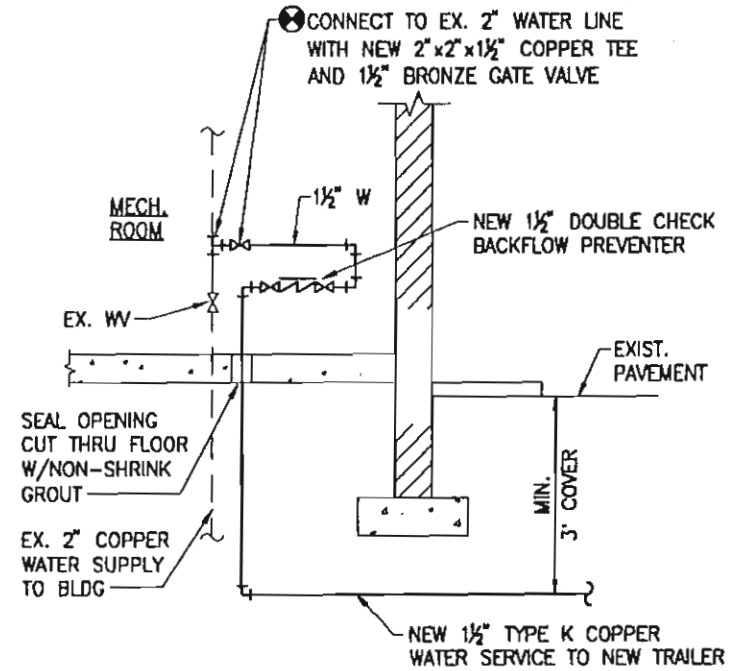
/ER CLEANOUT DETAIL
NOT TO SCALE

UNDISTURBED EARTH

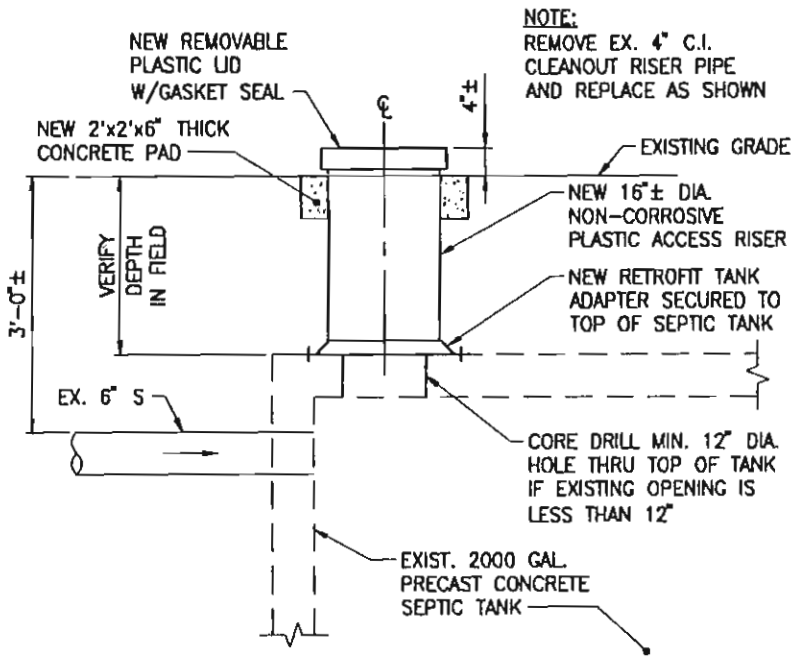
MAX. DRY DENSITY PER ASTM D1557

WATER/SEWER
TYPICAL PIPE TRENCH DETAIL
NOT TO SCALE

POWER
K
ATING
CABLE
INSULATE
CTURERS
S



1-1/2" WATER SERVICE CONNECTION DETAIL
NOT TO SCALE

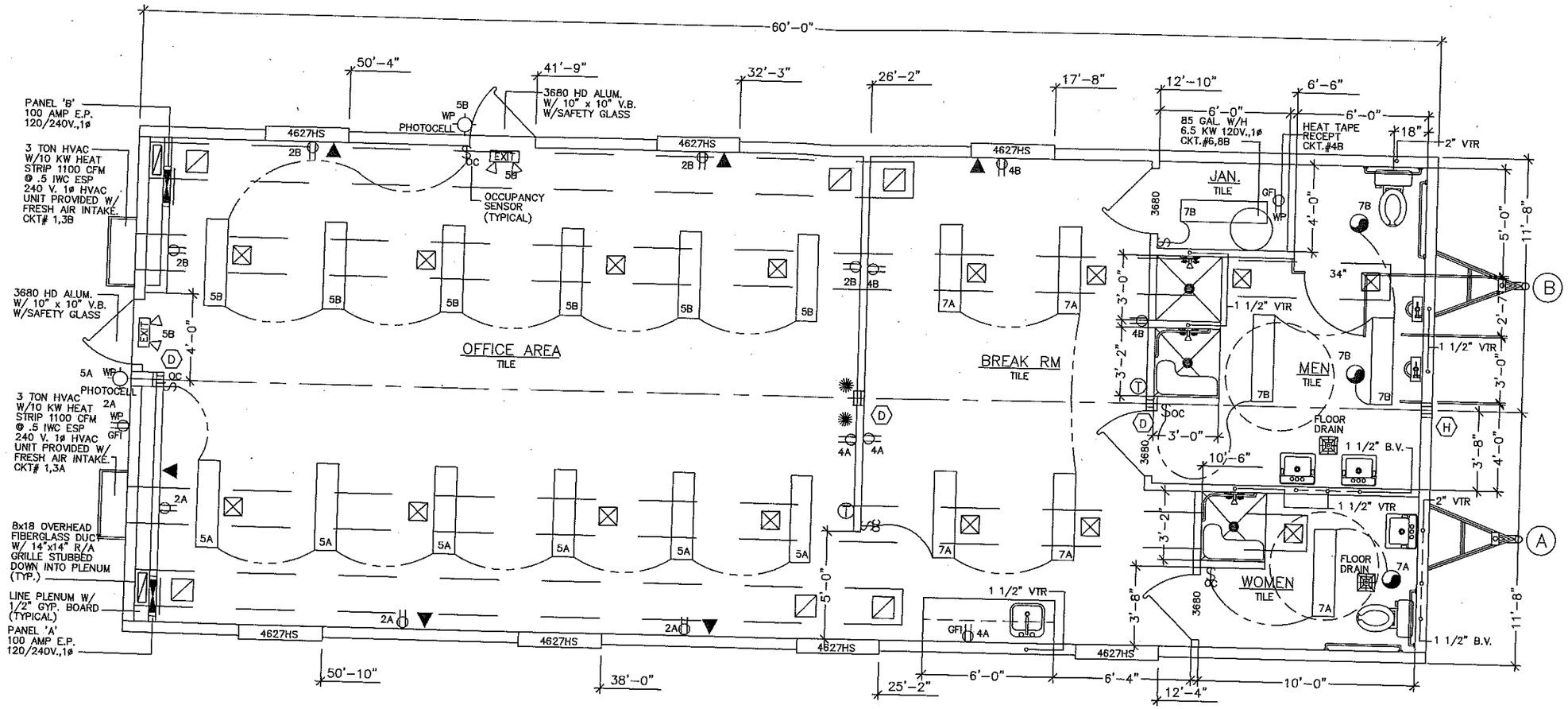


NEW CLEANOUT ACCESS
RISER AT EXISTING SEPTIC TANK
NOT TO SCALE

DEVELOPER:
IOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
COLUMBIA, MARYLAND 21045

DAYTON HIGHWAY MAINTENANCE FACILITY
SDP REDLINE

WATER AND SEWER SERVICE TO NEW DOUBLE-WIDE TRAILER



COLUMN STRAPPING SCHEDULE:

- (A) (2) 2x4 SPF #2 THIS HALF.
- (B) (2) 2x4 SPF #2 EACH HALF
- (C) (3) 2x4 SPF #2 THIS HALF.
- (D) (3) 2x4 SPF #2 EACH HALF.
- (E) (4) 2x4 SPF #2 THIS HALF.
- (F) (4) 2x4 SPF #2 EACH HALF.
- (G) (5) 2x4 SPF #2 THIS HALF.
- (H) (2) 2x6 SPF #2 EACH HALF.
- ✹ WITH RIDGE BEAM BEARING STIFFENER

NOTES:
1. ALL COLUMN STUDS SHALL BE GLUE/NAILED TOGETHER. PVA GLUE WITH 100% COVERAGE SHALL BE USED.
2. INSTALL TWO STEEL STRAPS AT EACH STUD OF EACH COLUMN.
3. COLUMN STUDS SHALL NOT BE NOTCHED OR BORED.

SYMBOLS

- DUPLEX RECEPTACLE 120 V.
- SINGLE RECEPTACLE 240 V.
- INCANDESCENT LIGHT WITH 1– 60 W. BULB
- VENT FAN
- COMB. VENT FAN & LIGHT
- SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- FLOOD LIGHT 2–150W BULBS
- (S) SMOKE DETECTOR
- (T) THERMOSTAT
- FLUORESCENT FIXTURE WITH 2– 32W TUBES
- EXIT/EMERGENCY LITE COMBO
- (J) JUNCTION BOX (NON POWERED UNLESS CIRCUIT NO. IS SHOWN)
- TELEPHONE JACK
- SWITCH & 3 WAY SWITCH
- EMERGENCY LIGHT WITH BATTERY BACKUP

APPROVED **RADCO** APPROVED
Aug 24, 2012
P.WITHERINGTON

PROFESSIONAL CERTIFICATION:

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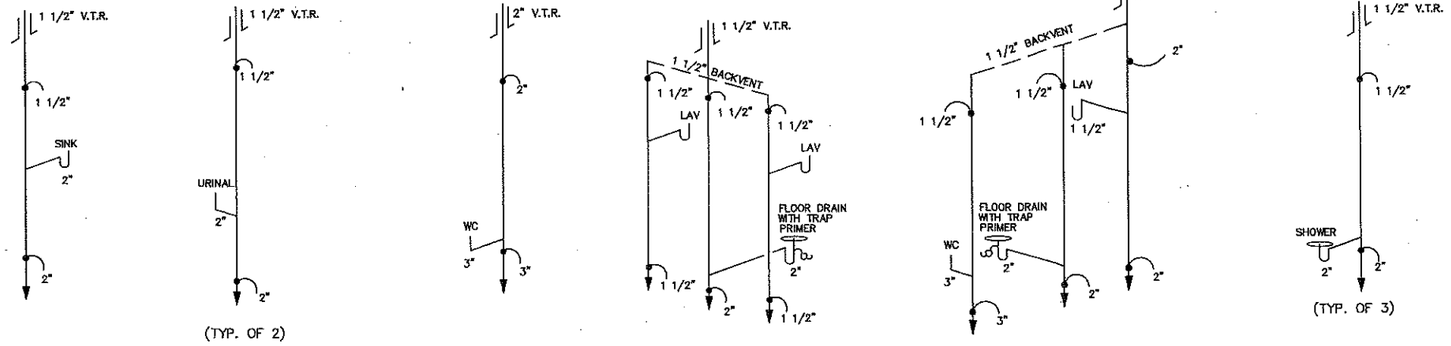
CONSULTING ENGINEER | JAMES BRADLEY, P.E. – 212 FOX TRAIL – PARKESBURG, PA. 19365 – (610) 857-2458

VALID STATE OF MARYLAND JAMES E. BRADLEY PROFESSIONAL ENGINEER No.8588 August 24, 2012

SPECIALIZED STRUCTURES INC.
2400 SPRINGHEAD ROAD WILLACOOCHEE, GA 31650
1-912-384-7565 FAX: 1-912-384-4943

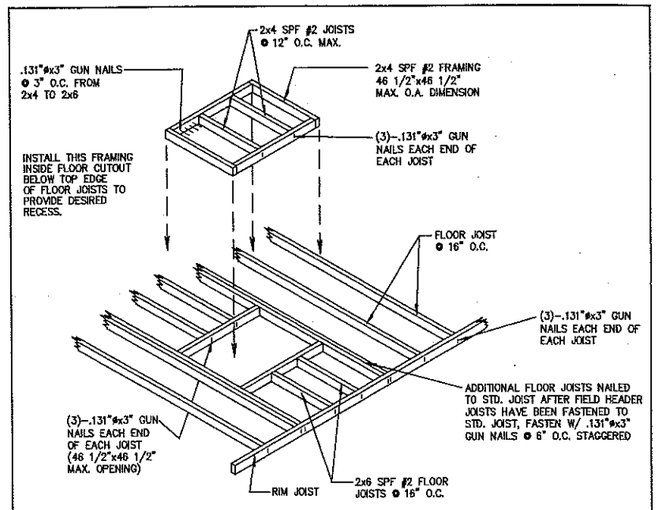
DATE: 6-28-12	THIRD PARTY: RADCO 5458 CRENSHAW ST. TAMPA, FLORIDA 33634 813-243-0370
SCALE : 3/16"=1'-0"	
CODES: MD.	
LABELS: RADCO	REVISIONS: BY: J.B.
SSI4057 24 x 60 BUSINESS	SHEET 2 OF 6
FRAME SIZE: (2) 11'-8" x 60'-0"	
FLOOR PLAN	DESTINATION: DAYTON



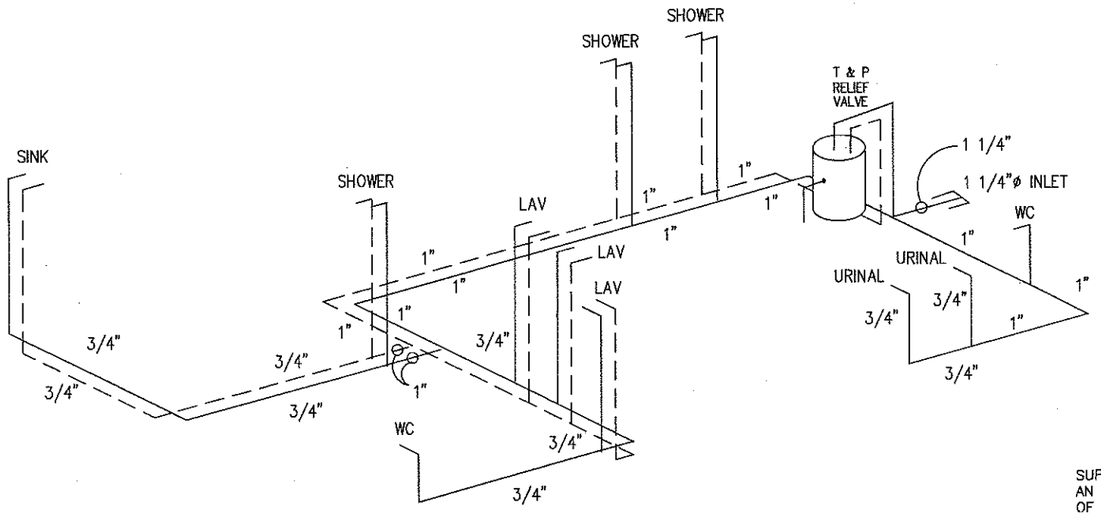
(TYP. OF 2)

(TYP. OF 3)

DWV RISER NTS



ACCESSIBLE SHOWER STALL
RECESSED FLOOR AREA DETAIL
– NTS –



SUPPLY RISER –NTS–

SUPPLY LINE SIZING IS BASED ON AN ASSUMED AVAILABLE PRESSURE OF 46 TO 60 PSI AT MAIN INLET AND SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.
——— COLD
— — — — HOT
ALL SUPPLY LINES SHALL BE 3/4", ALL STUB-UPS SHALL BE 1/2" UNLESS OTHERWISE SPECIFIED.

APPROVED **RADCO** APPROVED
Aug 24, 2012
P.WITHERINGTON

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CONSULTING ENGINEER	JAMES BRADLEY, P.E. – 212 FOX TRAIL – PARKESBURG, PA. 19365 – (610) 857-2458

VALID
STATE OF MARYLAND
JAMES STANLEY BRADLEY
No.8588
PROFESSIONAL ENGINEER
August 24, 2012

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1-912-384-7565 FAX: 1-912-384-4943

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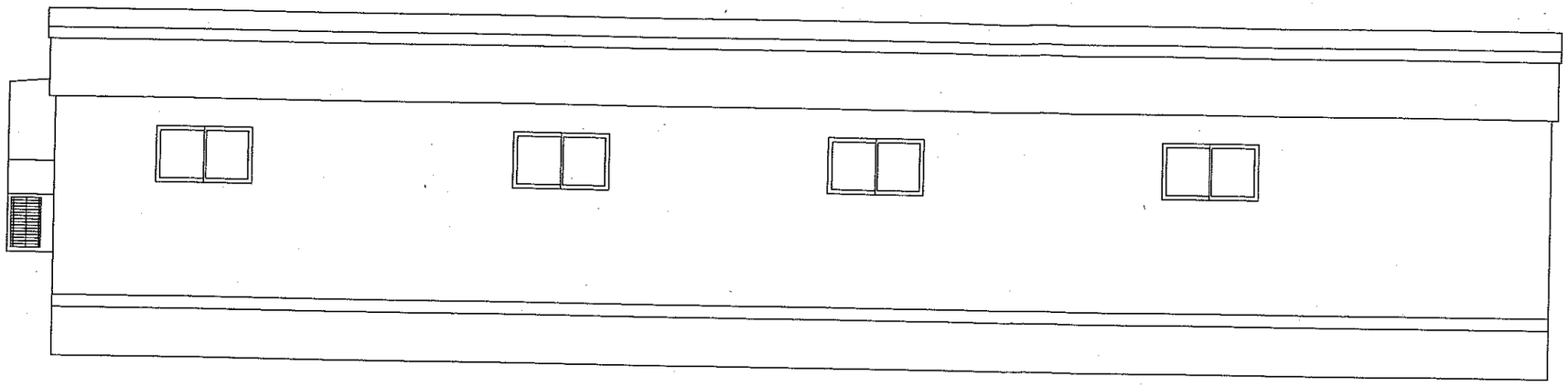
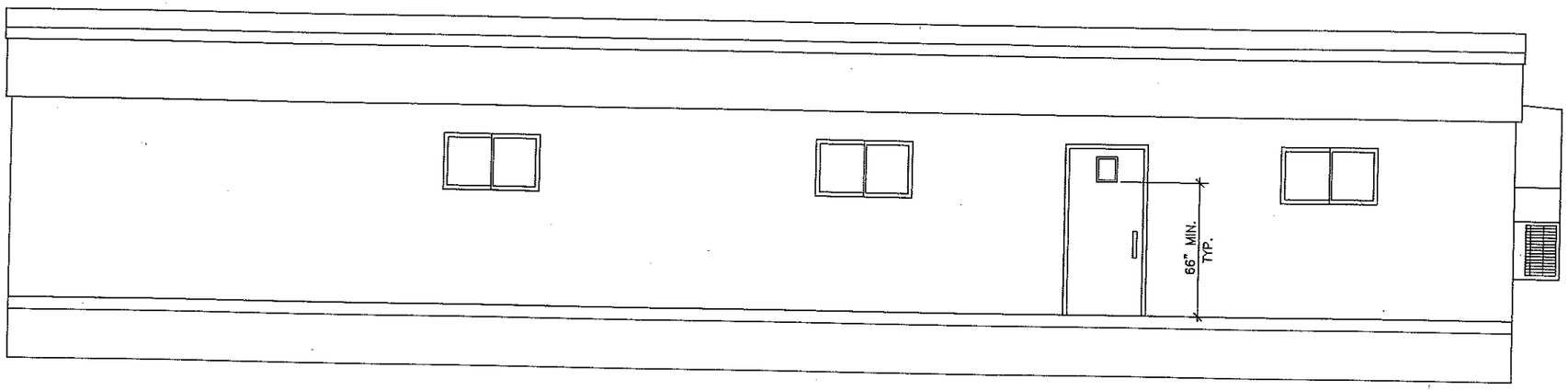
LABELS: RADCO	REVISIONS:	BY: J.B.
SSI4057 24 x 60 BUSINESS		SHEET 3 OF 6
FRAME SIZE: (2) 11'-8" x 60'-0"		
RISER PLANS	DESTINATION: DAYTON	

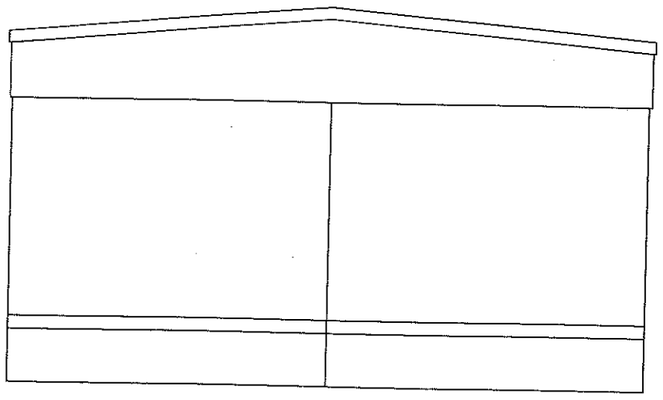


REAR ELEVATION

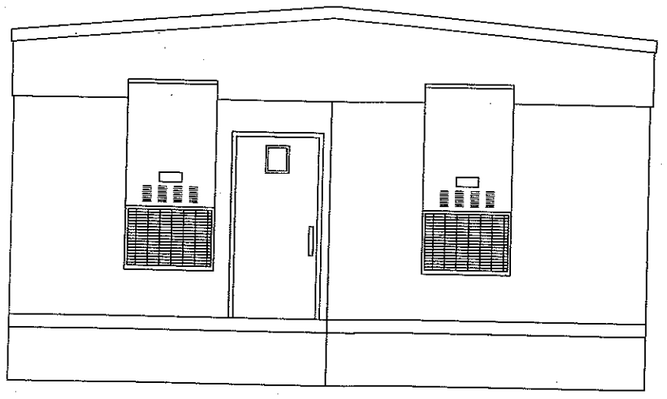


FRONT ELEVATION

SCALE: 3/16"=1'-0"



LEFT ELEVATION



RIGHT ELEVATION

ELEVATION NOTES: TYPICAL

SEE-CROSS SECTION FOR METHOD OF ROOF VENTILATION

ACCESSIBLE RAMP(S), STAIR(S), AND HANDRAILS ARE SITE INSTALLED, DESIGNED BY OTHERS, AND SUBJECT TO LOCAL JURISDICTION.

FOUNDATION ENCLOSURE (WHEN PROVIDED) MUST HAVE 1 SQUARE FOOT NET VENT AREA PER 1/150TH OF THE FLOOR AREA, AND AN 18" X 24" MINIMUM CRAWL SPACE ACCESS, SITE INSTALLED BY OTHERS SUBJECT TO LOCAL JURISDICTION.

APPROVED **RADCO** APPROVED
Aug 24, 2012
P.WITHERINGTON

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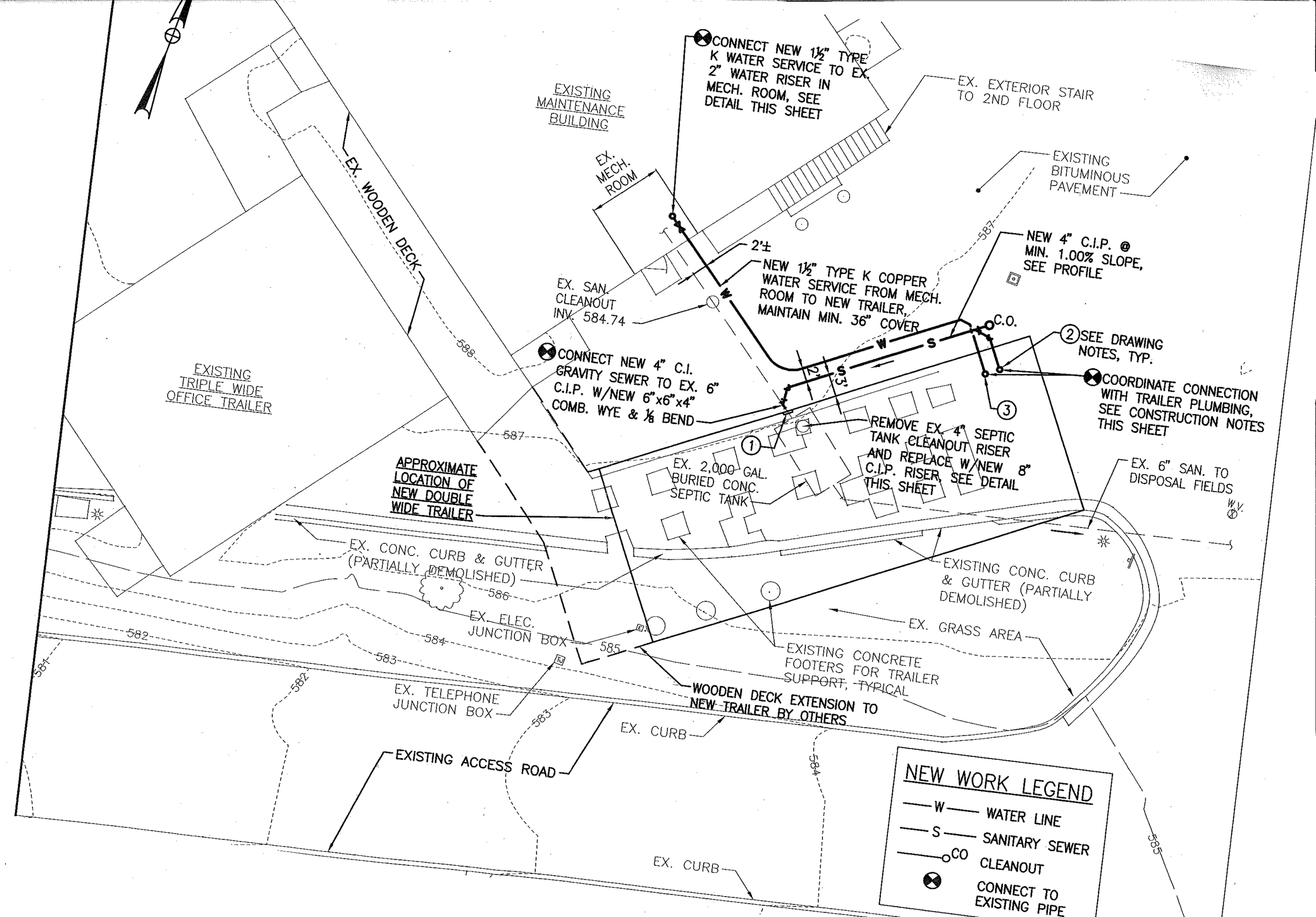
ELEVATIONS	DESTINATION: DAYTON	


EXISTING MAINTENANCE BUILDING
CONNECT NEW 1½" TYPE K WATER SERVICE TO EX. 2" WATER RISER IN MECH. ROOM, SEE DETAIL THIS SHEET
EX. EXTERIOR STAIR TO 2ND FLOOR
EXISTING BITUMINOUS PAVEMENT
EX. MECH. ROOM
EX. WOODEN DECK
2'±
NEW 1½" TYPE K COPPER WATER SERVICE FROM MECH. ROOM TO NEW TRAILER, MAINTAIN MIN. 36" COVER
NEW 4" C.I.P. @ MIN. 1.00% SLOPE, SEE PROFILE
EX. SAN. CLEANOUT INV. 584.74
C.O.
2
SEE DRAWING NOTES, TYP.
CONNECT NEW 4" C.I. GRAVITY SEWER TO EX. 6" C.I.P. W/NEW 6"x6"x4" COMB. WYE & ⅛ BEND
2'
3'
COORDINATE CONNECTION WITH TRAILER PLUMBING, SEE CONSTRUCTION NOTES THIS SHEET
EXISTING TRIPLE WIDE OFFICE TRAILER
3
REMOVE EX. 4" SEPTIC TANK CLEANOUT RISER AND REPLACE W/NEW 8" C.I.P. RISER, SEE DETAIL THIS SHEET
1
EX. 2,000 GAL. BURIED CONC. SEPTIC TANK
EX. 6" SAN. TO DISPOSAL FIELDS
APPROXIMATE LOCATION OF NEW DOUBLE WIDE TRAILER
EX. CONC. CURB & GUTTER (PARTIALLY DEMOLISHED)
EXISTING CONC. CURB & GUTTER (PARTIALLY DEMOLISHED)
EX. ELEC. JUNCTION BOX
EX. GRASS AREA
EXISTING CONCRETE FOOTERS FOR TRAILER SUPPORT, TYPICAL
WOODEN DECK EXTENSION TO NEW TRAILER BY OTHERS
EX. TELEPHONE JUNCTION BOX
EX. CURB
EXISTING ACCESS ROAD
EX. CURB
588
587
586
585
584
583
582
581
NEW WORK LEGEND
W WATER LINE
S SANITARY SEWER
CO CLEANOUT
CONNECT TO EXISTING PIPE

GENERAL CROSS–SECTION NOTES:

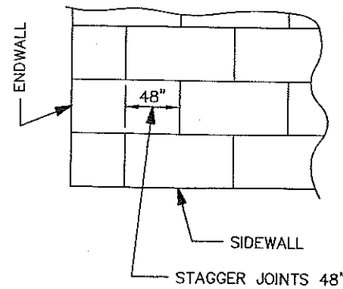
1. UNLESS OTHERWISE SPECIFIED, ALL STEEL MUST COMPLY W/ ASTM A36, YIELD STRENGTH = 36 KSI.
2. ALL LAG SCREWS MUST COMPLY W/ ANSI/ ASME B18.2.1. F_{YB}= 60 KSI MINIMUM.
3. SEE FOUNDATION PLAN FOR PIER AND TIE–DOWN STRAPPING LOCATIONS, ORIENTATIONS, AND SPECIFICATIONS.

EXTERIOR FINISH MATERIAL:

ROOF – 45 MIL BLACK RUBBER ROOF COVERING (EPDM) OVER FR DECK PANEL 'C' INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

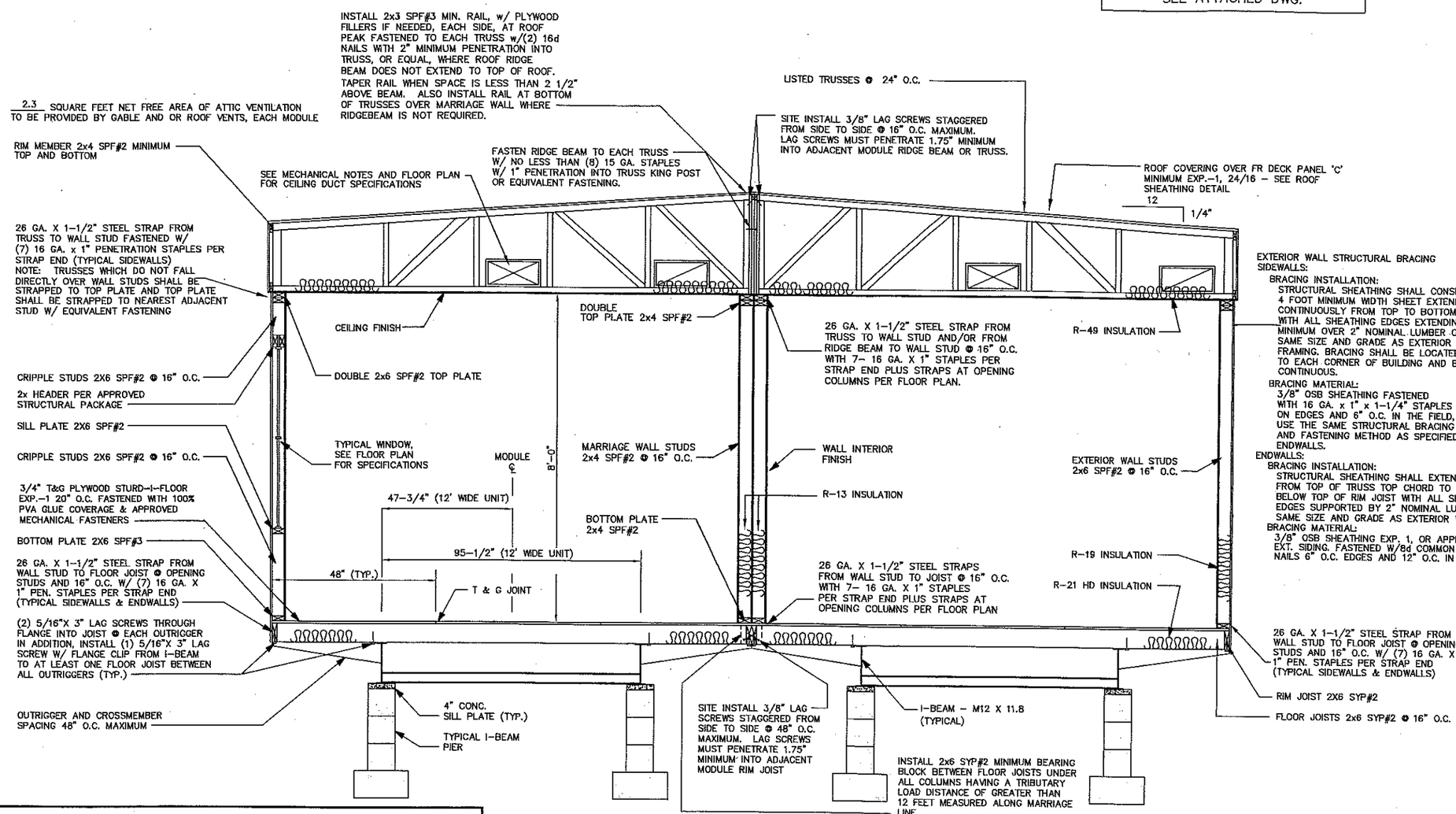
WALL – 24 GA. HI–RIB ALUMINUM OVER APPROVED MOISTURE BARRIER OVER OSB SHEATHING INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

APPROVED TRUSS DESIGN:
TRUSS MANUF.: UNIVERSAL
TRUSS NO. SF089038
SEE ATTACHED DWG.



FR DECK PANEL C TO BE FASTENED TO TRUSSES W/ 8D NAILS @ 6" O.C. ON EDGES AND 12" O.C. IN FIELD

ROOF SHEATHING DETAIL



APPROVED RADCO APPROVED
Aug 24, 2012
P.WITHERINGTON

RIDGE BEAM CONSTRUCTION:

4 LAYERS 3/4"X 24" PLYWOOD, RATED SHEATHING, EXP.–1, STRUCT.–1, 5 PLY/5 LAYER, 48/24 EACH HALF CONTINUOUS ENTIRE LENGTH OF BUILDING.

NOTES:

1. PLYWOOD FACE GRAIN MUST BE PARALLEL TO THE RIDGE BEAM SPAN.
2. ALL PLYWOOD BUTT JOINTS MUST BE STAGGERED 24" MINIMUM.
3. ALL RIDGE BEAM PLYWOOD LAMINATIONS MUST BE THE SAME DEPTH, THICKNESS, AND GRADE OF PLYWOOD. NO LUMBER OR PLYWOOD FLANGES ARE PERMITTED.
4. PLYWOOD MUST BE MANUFACTURED IN ACCORDANCE W/ PS I–95.
5. PLYWOOD LAMINATIONS IN EACH HALF OF THE UNITS MUST BE GLUE NAILED TO ADJACENT LAYERS IN ACCORDANCE W/ PDS SUPPLEMENT #5, W/ AN ADHESIVE COMPLYING W/ ASTM D2559, OR CA25–4.
6. PLYWOOD MUST NOT BE TREATED W/ A FIRE RETARDANT PROCESS.
7. MOISTURE CONTENT MUST BE LESS THAN 16%.
8. BEAMS SUPPORTED BY ENDWALL COLUMNS MUST EXTEND CONTINUOUS OVER COLUMNS TO EXTERIOR FACE OF ENDWALL.
9. INSTALL (2X4) X 20" SPF#3 RIDGE BEAM BEARING STIFFENER OVER SUPPORT COLUMNS, WHEN SPECIFIED ON FLOOR PLAN; FASTEN THE FACE OF THE STIFFENER TO THE RIDGE BEAM W/ 100% GLUE COVERAGE AND (6) 16 GA. X 2–1/2" STAPLES.

INTERIOR FINISH MATERIAL:

CEILING – 1/2 INCH MINIMUM GYPSUM BOARD INSTALLED PER MANUFACTURER'S SPECIFICATIONS. (SEASPRAY FINISH W/ROSETTES)

WALL – 1/2 INCH MINIMUM GYPSUM BOARD (VINYL COVERED)

FLOOR – AS NOTED ON PLAN

PROFESSIONAL CERTIFICATION:

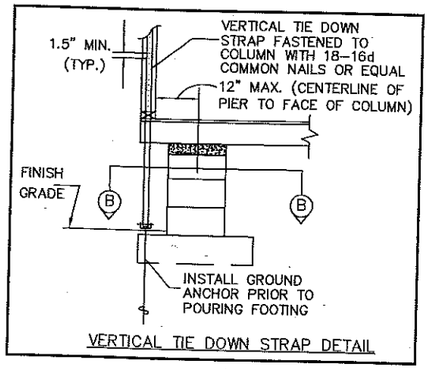
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 8588
EXPIRATION DATE: 6–6–14

CONSULTING ENGINEER | JAMES BRADLEY, P.E. – 212 FOX TRAIL – PARKESBURG, PA. 19365 – (610) 857–2458

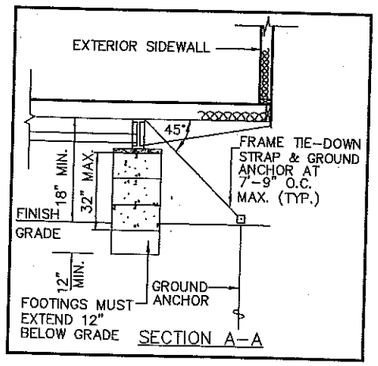
STATE OF MARYLAND
JAMES E. BRADLEY
August 24, 2012
No. 8588
PROFESSIONAL ENGINEER

SPECIALIZED STRUCTURES INC.
2400 SPRINGHEAD ROAD WILLACOOCHEE, GA 31650

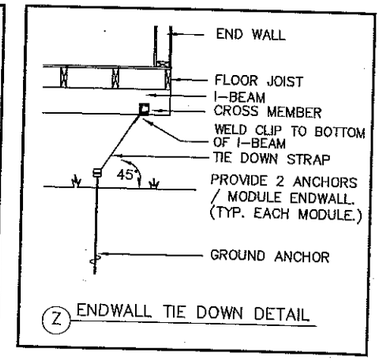
DATE: 6–28–12	THIRD PARTY: RADCO 5456 CRENSHAW ST. TAMPA, FLORIDA 33634 813–243–0370	
SCALE : NTS		
CODES: MD.		
LABELS: RADCO	REVISIONS:	BY: J.B.
SSI4057 24 x 60 BUSINESS		SHEET
FRAME SIZE: (2) 11'–8" x 60'–0"		6 OF 6
CROSS SECTION	DESTINATION: DAYTON	



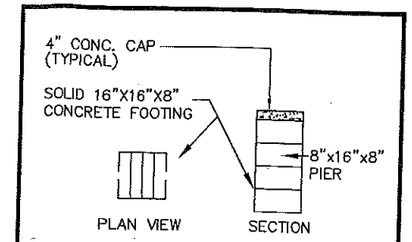
VERTICAL TIE DOWN STRAP DETAIL



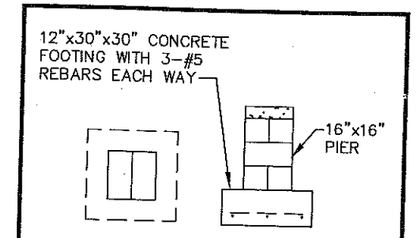
SECTION A–A



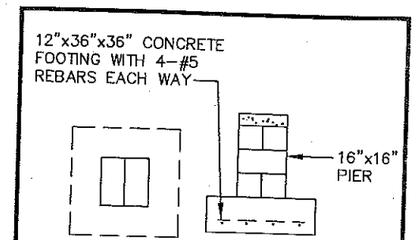
Z ENDWALL TIE DOWN DETAIL



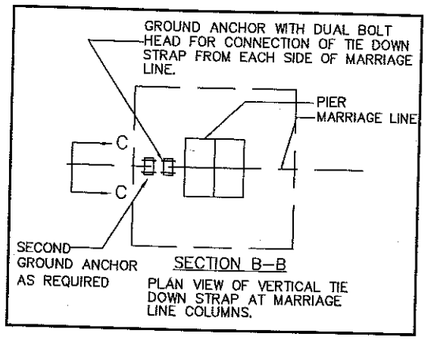
PIER TYPE A



PIER TYPE B

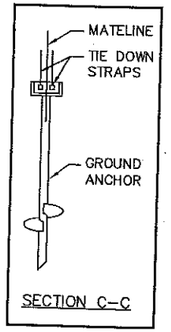


PIER TYPE C

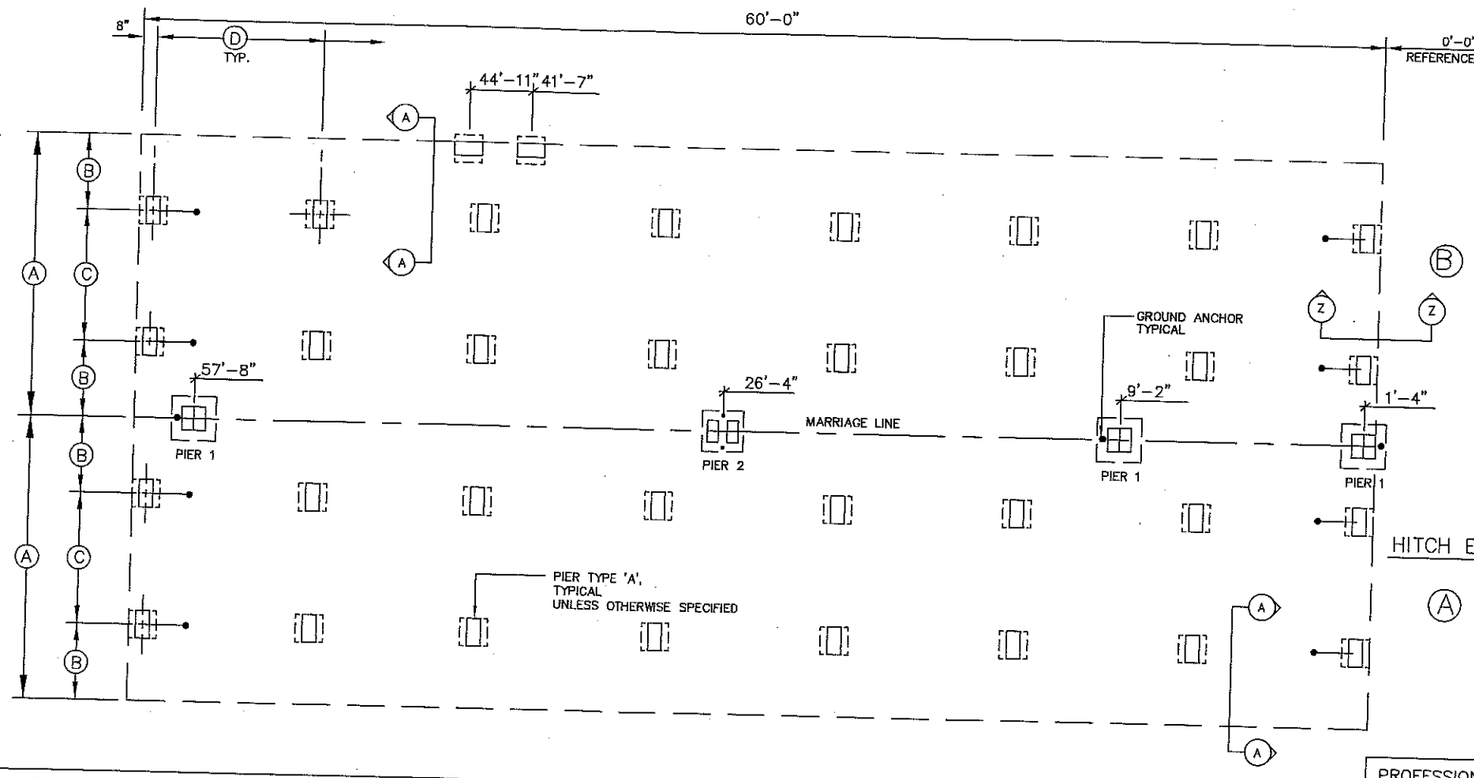


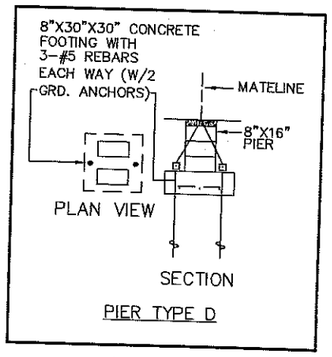
SECTION B–B

PLAN VIEW OF VERTICAL TIE DOWN STRAP AT MARRIAGE LINE COLUMNS.



SECTION C–C





PIER TYPE D

FOUNDATION NOTES:

1. ALL FOUNDATION CONSTRUCTION, MATERIALS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
2. TIE–DOWN STRAPS TO BE 1–1/4"x .035" TYPE–1, FINISH B, GRADE 1 ZINC COATED STEEL STRAPPING CERTIFIED BY A REGISTERED ENGINEER OR ARCHITECT AS CONFORMING WITH ASTM D3953–91. TIE DOWN STRAPS AND CONNECTING HARDWARE SHALL HAVE 3150# MINIMUM WORKING CAPACITY.
3. GROUND ANCHORS SHALL HAVE 3150# MINIMUM WORKING CAPACITY, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. DESIGN OF GROUND ANCHOR, INCLUDING SHAFT LENGTH, NUMBER AND DIAMETER OF HELIXES, ETC., TO BE AS SPECIFIED BY THE GROUND ANCHOR MANUFACTURER FOR THE ACTUAL SOIL TYPE ENCOUNTERED. IF THE HOLDING OR PULLOUT CAPACITIES OF GROUND ANCHORS ARE BELOW THE VALUES SPECIFIED ABOVE THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR AN ALTERNATE ANCHORAGE DESIGN.
4. THE FIRST TIE–DOWN STRAP FROM ENDWALLS SHALL NOT EXCEED 1/2 THE MAXIMUM SPACING INDICATED.
5. ALL PIERS SHALL BE CONSTRUCTED OF CONCRETE MASONRY UNITS CONFORMING TO ASTM C90. MASONRY UNITS SHALL BE LAID IN TYPE M OR S MORTAR OR COVERED WITH SURFACE BONDING CEMENT INSTALLED IN ACCORDANCE WITH ITS LISTING. PIER FOOTINGS SHALL BE AS DESCRIBED ABOVE.
6. MINIMUM CONCRETE FOOTING COMPRESSIVE STRENGTH 2,500 PSI AT 28 DAYS.
7. ALL REINFORCEMENT BARS SHALL COMPLY WITH ASTM A615, GRADE 60. REINFORCEMENT BARS SHALL BE EQUALLY SPACED AND PLACED WITH 3" CLEARANCE FROM BOTTOM AND SIDES OF THE FOOTING.
8. SEE SHEET 1 OF 6 FOR BUILDING DESIGN LOADS
9. I–BEAM SUPPORT PIERS MAY BE INSTALLED LATERALLY (90° FROM THE ORIENTATION SHOWN ON THE FOUNDATION PLAN). CENTERLINE OF EACH PIER MUST BE LOCATED DIRECTLY BELOW THE I–BEAM CENTERLINE.
10. SOIL BEARING CAPACITY SHOWN ON THIS PLAN IS ASSUMED. IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN 2,000 PSF, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR REQUIRED ALTERNATE FOUNDATION DESIGN. FOOTINGS SHALL BE PLACED ON NON–EXPANSIVE SOILS ONLY.
11. INSTALL BLOCK PIER ON EACH SIDE OF ALL EXTERIOR DOOR OPENINGS. (MANUFACTURER'S RECOMMENDATION ONLY – OPTIONAL WHEN NOT SHOWN) SLIGHT ADJUSTMENT MAY BE REQUIRED TO INSURE OPENABILITY AFTER INSTALLATION OF BUILDING IS COMPLETE.
12. THE AREA UNDER FOOTINGS AND FOUNDATIONS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION.
13. THE FOUNDATION DIMENSIONS SHOWN ARE NOMINAL. AN INCREASE IN MODULE WIDTH SHOULD BE EXPECTED DUE TO MODULE EXPANSION, SETTING TOLERANCES, ETC. THE FOUNDATION CONTRACTOR SHOULD CONSULT WITH THE MANUFACTURER OF THE MODULES PRIOR TO CONSTRUCTION OF THE FOUNDATION TO DETERMINE THE AMOUNT OF INCREASED WIDTH TO BE ADDED TO THE NOMINAL DIMENSIONS SHOWN ABOVE.

NOTE:

THIS FOUNDATION PLAN IS PROVIDED FOR REFERENCE AS A TYPICAL STANDARD. ACTUAL FOUNDATION CONDITIONS MUST BE EVALUATED FOR APPLICABILITY IF THIS PLAN IS TO BE USED. ALTERNATE FOUNDATION PLANS MAY BE DESIGNED BY OTHERS IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTION HAVING AUTHORITY.

MARRIAGE WALL PIER REQUIREMENTS

PIER NUMBER	MINIMUM SOIL BEARING CAPACITY	PIER TYPE	NUMBER OF VERTICAL TIE DOWN STRAPS REQ'D (EACH MODULE)
1	2000 PSF	C	1
	3000 PSF	B	1
2	2000 PSF	D	2
	3000 PSF	D	2

FOUNDATION DIMENSIONS

A MODULE WIDTH	B PIER TO MODULE EDGE	C STEEL BEAM SPACING
11'–8"	22 1/4"	95 1/2"

D MAXIMUM PIER SPACING	MINIMUM SOIL BEARING CAPACITY
5'–8"	2000 PSF
8'–9"	3000 PSF

DESIGN LOADS

WIND SPEED: 130 MPH ROOF LIVE LOAD: 20 PSF
BLDG. EXPOSURE: EXP. C SNOW LOAD: 35 PSF

APPROVED **RADCO** APPROVED
Aug 24, 2012
P.WITHERINGTON

PROFESSIONAL CERTIFICATION:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 8588
EXPIRATION DATE: 6–6–14

VALID STATE OF MARYLAND JAMES E. BRADLEY No.8588 PROFESSIONAL ENGINEER
August 24, 2012

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1–912–384–7565 FAX: 1–912–384–4943

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REVISIONS: BY: J.B.
SSI4057 24 x 60 BUSINESS
FRAME SIZE: (2) 11'–8" x 60'–0"
FOUNDATION PLAN
DESTINATION: DAYTON
SHEET 5 OF 6