

MORTON BUILDINGS GENERAL SPECIFICATIONS

LAMINATED COLUMNS - NO. 1 OR BETTER SOUTHERN YELLOW PINE NAIL LAMINATED 3 MEMBER S4S COLUMNS NAILED 8" O.C. STAGGERED ON EACH SIDE WITH 4" NAILS.

MFS PRE-CAST CONCRETE COLUMN - MORTON BUILDINGS FOUNDATION SYSTEM IS A PRE-ENGINEERED, 10,000 PSI, STEEL REINFORCED COLUMN FOR BELOW GROUND INSTALLATION, DESIGNED TO BE MECHANICALLY FASTENED TO ABOVE GROUND NAIL LAMINATED COLUMNS. THE SYSTEM IS DESIGNED TO RESIST BOTH AXIAL AND BENDING FORCES.

FOOTINGS AND ANCHORAGE - COLUMN HOLES ARE DUG A MINIMUM DEPTH OF 4'-0" BELOW GRADE (SEE PLANS FOR DIAMETER AND DEPTH). MFS PRE-CAST CONCRETE COLUMNS ARE PLACED IN THE HOLE. CONCRETE (MINIMUM COMPRESSIVE STRENGTH 2500 PSI) IS POURED IN PLACE TO THE SPECIFIED THICKNESS (SEE PLANS FOR REQUIRED THICKNESS ABOVE AND BELOW THE COLUMN). THE COLUMN IS THEN BACKFILLED WITH SOIL AND COMPACTED AT 8" INTERVALS OR BACKFILLED WITH CONCRETE (SEE PLANS).

TREATED LUMBER - PRESSURE PRESERVATIVE TREATED LUMBER OTHER THAN LAMINATED COLUMNS ARE NO. 1 OR BETTER SOUTHERN YELLOW PINE AND CENTER MATCHED OR NOTCHED AND GROOVED OR S4S. PRESSURE TREATMENT TO GROUND CONTACT RETENTION WITH PRESERVATIVE TREATMENT COMPLYING WITH USE CATEGORY UC4B (AWPA OR ICC-ES) AND IN COMPLIANCE WITH USEPA GUIDELINES AND STANDARDS.

FRAMING LUMBER - SIDING NAILERS ARE 2x4 S4S OR 2x6 SPF NO. 2 OR BETTER SPACED APPROXIMATELY 36" O.C. WITH ALL JOINTS STAGGERED AT ATTACHMENT TO COLUMNS. ROOF PURLINS ARE 2x4 S4S NO. 2 OR BETTER ON EDGE SPACED APPROXIMATELY 24" O.C. ALL OTHER FRAMING LUMBER IS NO. 2 OR BETTER.

ROOF TRUSSES - FACTORY ASSEMBLED WITH 18 OR 20 GAUGE GALVANIZED STEEL TRUSS PLATES AS REQUIRED AND KILN DRIED LUMBER AS SPECIFIED. IN-PLANT QUALITY CONTROL INSPECTION IS CONDUCTED UNDER THE AUSPICES OF THE TPI INSPECTION BUREAU. TRUSSES ARE DESIGNED IN ACCORDANCE WITH CURRENT STANDARDS AND SPECIFICATIONS FOR THE STATED LOADING.

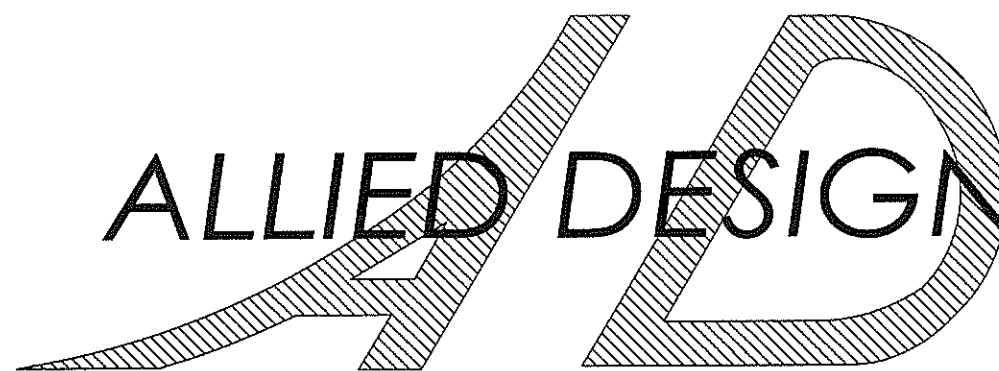
SIDING & ROOFING PANELS (FLUOROFLEX 1000™) - 0.019" MIN., G90 GALVANIZED OR AZ55 GALVALUME STEEL WITH AN ADDITIONAL BAKED-ON 70% PVDF FINISH WITH A NOMINAL 1 MIL. PAINT THICKNESS ON EXTERIOR.

TRIM - DIE-FORMED TRIM OF 0.017" MIN., G90 GALVANIZED OR AZ55 GALVALUME STEEL ON GABLES, RIDGES, CORNERS, BASE WINDOWS, AND DOORS WITH SAME FINISH AS ROOFING OR SIDING PANELS.

GUTTERS - 5" K-STYLE, .030 HIGH TENSILE ALUMINUM GUTTER, 70% PVDF FINISH TO MATCH TRIM, ON BOTH SIDES OF THE BUILDING.
2x4F1F1 02/12

DESIGN AND EXPLANATORY NOTES

- 1.) ALL PLOT PLANS AND RELATED DETAILS SHALL BE PROVIDED BY OWNER UNLESS INCORPORATED AS PART OF THESE DRAWINGS.
- 2.) MORTON BUILDINGS GENERAL SPECIFICATIONS APPLY UNLESS INDICATED DIFFERENTLY ON SPECIFIC JOB DRAWINGS OR SUPPLEMENTAL INFORMATION.
- 3.) NO ONE MAY ALTER ANY ARCHITECTURAL OR ENGINEERING ITEM UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED / REGISTERED ARCHITECT OR LICENSED / REGISTERED ENGINEER.
- 4.) ♦ THE PRECEDING SYMBOL IDENTIFIES ITEMS THROUGHOUT THE PLANS THAT ARE NOT PROVIDED BY MORTON BUILDINGS, INC. OR MORTON BUILDINGS' SUBCONTRACTORS AND ARE THE OWNER'S RESPONSIBILITY.



OFFICE:
WESTFIELD, MA
JOB NO.
115-064715

LORI JERUSIK
CHICOPEE, MA

MA
ALLIED DESIGN ARCHITECTURAL & ENGINEERING GROUP, P.C.
100 S. PERSHING P.O. BOX 110 MORTON, IL 61550
PHONE NUMBER: 309-263-4105

SHEET INDEX	
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G1 OF G1	SPECIFICATIONS & SHEET INDEX
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CURRENT LUMBER SPECIFICATIONS (06-01-2013)		
SIZE	DESCRIPTION	BENDING VALUE F _b
2x4	NO. 2 SPF	1313 PSI
2x4	NO. 1 SYP	1500 PSI
2x4	2100I MSR SPF	2100 PSI
2x6	NO. 2 SPF	1138 PSI
2x6	NO. 1 SYP	1350 PSI
2x6	2100I MSR SPF	2100 PSI
2X6	2400 MSR SYP	2400 PSI
2x8	NO. 1 SYP	1250 PSI
2x8	2400 MSR SYP	2400 PSI
2x10	NO. 1 SYP	1050 PSI
2x10	2400 MSR SYP	2400 PSI
2x12	NO. 1 SYP	1000 PSI
2x12	2250I MSR SYP	2250 PSI
1 1/2"x16"	LAMINATED VENEER LUMBER	2800 PSI
3 1/2"x16"	GLU-LAM	1650 PSI
5 1/4"x16 1/2"	GLU-LAM	2400 PSI
5 1/4"x19 1/2"	GLU-LAM	2400 PSI

BUILDING DESIGN CRITERIA	
USE GROUP	B
CONSTRUCTION TYPE	VB
BUILDING AREA	2160 SQ. FT.
ROOF SNOW LOAD *	31 PSF
GROUND SNOW LOAD	35 PSF
WIND SPEED (V _{3s})	95 MPH

*ROOF SNOW LOAD CALCULATIONS

$$P_f = 0.7 \times C_e \times I \times P_g \times C_t$$

$$C_e = \text{SNOW EXPOSURE FACTOR} = 1.0$$

$$I = \text{IMPORTANCE FACTOR} = 1.0$$

$$P_g = \text{GROUND SNOW LOAD} = 35 \text{ PSF}$$

$$C_t = \text{THERMAL FACTOR} = 1.1$$

$$P_f = 0.7 \times 1.0 \times 1.0 \times 35 \times 1.1 = 26.95 \text{ PSF}$$

$$P_{fmin} = 35 \text{ PSF}$$

$$P_s = P_f \times C_s$$

$$C_s = \text{ROOF SLOPE FACTOR} = 0.86$$

$$P_s = 35 \times 0.86 = 30.10 \text{ PSF}$$

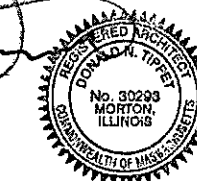
I HEREBY CERTIFY THAT THE STRUCTURAL DESIGN FOR THIS BUILDING WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED/REGISTERED PROFESSIONAL ENGINEER.

Michael L. McCormick
MICHAEL L. MCCORMICK, P.E.
mimccormick@alieddesignoes.com
DATE: 12/16/16
LICENSE# 41121
EXP. DATE: 6-30-18



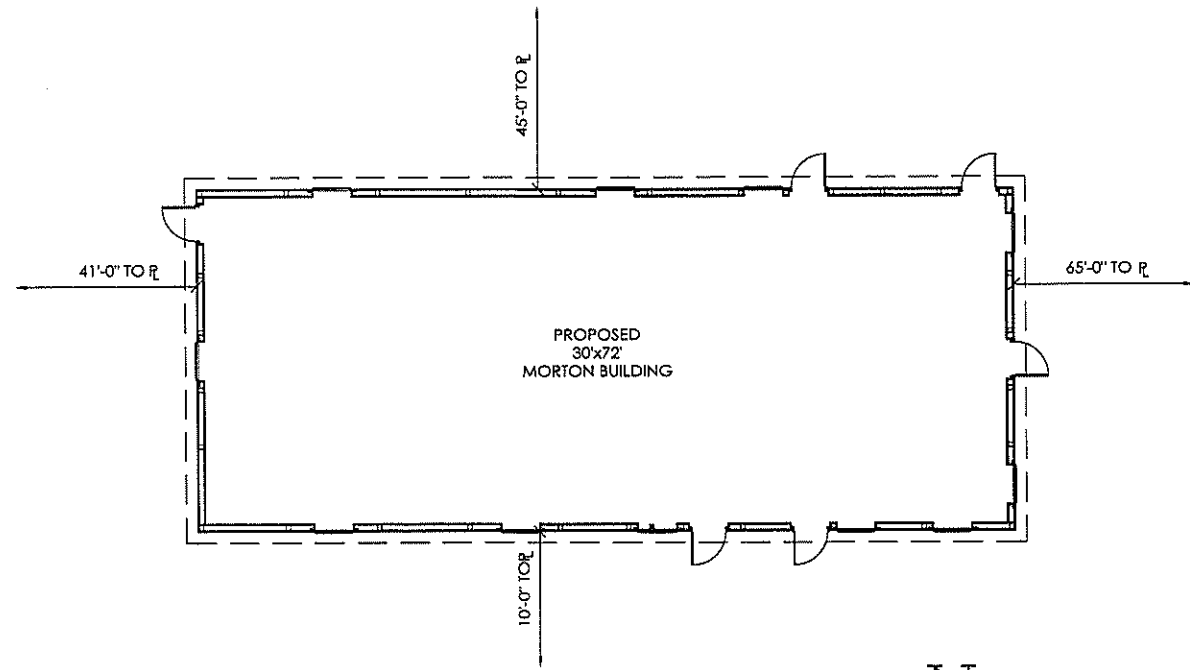
I HEREBY CERTIFY THAT THE ARCHITECTURAL DESIGN FOR THIS BUILDING WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED / REGISTERED ARCHITECT.

Donald N. Tippet
DONALD N. TIPPET, ARCHITECT
don.tippet@alieddesignoes.com
DATE: 12/16/16
LICENSE# 30293
EXP. DATE: 8-31-17

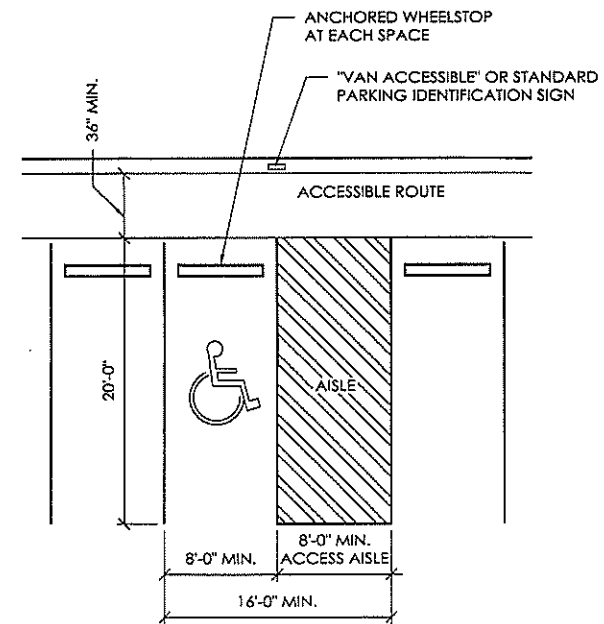
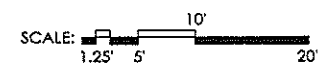


DRAWN BY: POLHEMUS
DATE: 11/26/2016
CHECKED BY: B.HUGHEY
DATE: 11/30/2016
REVISED DATE: ---
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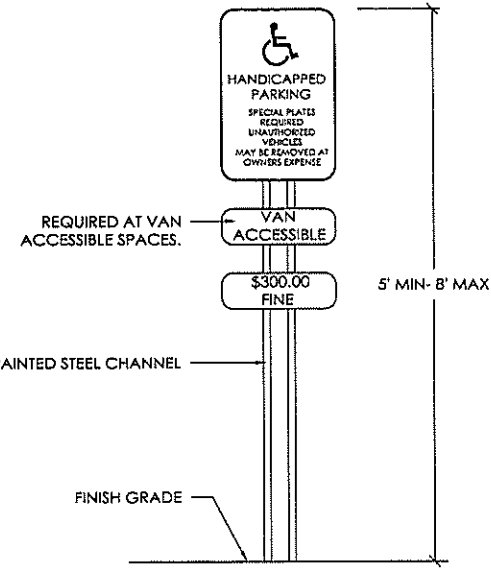
SCALE: AS NOTED
SHEET NO.
G1 of G1



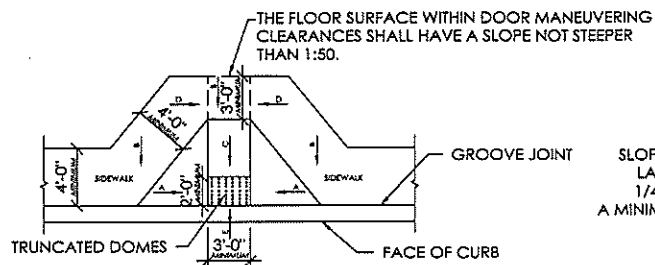
BUILDING LOCATION PLAN



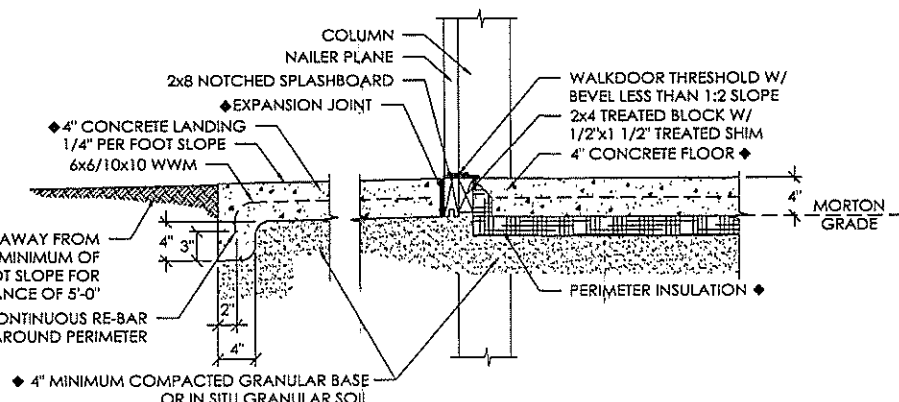
ACCESSIBLE PARKING SPACE DETAIL ♦
SEE NOTE #15



ACCESSIBLE PARKING SIGN ♦



CURB RAMP DETAIL
SLOPE "A" 1:10
SLOPE "B" 1/4"/FT
SLOPE "C" 1:12
SLOPE "D" 1/2"/FT
SLOPE "E" 1:20



LANDING & THRESHOLD DETAIL
SCALE: 1" = 1'-0" SEE NOTE #16

DESIGN AND EXPLANATORY NOTES

- SITE PLAN ACCESSIBILITY**
- THE MINIMUM CLEAR WIDTH OF AN ACCESSIBLE ROUTE SHALL BE 36 INCHES EXCEPT AT DOORS.
 - AN ACCESSIBLE ROUTES WALKING SURFACES, OTHER THAN RAMPS AND CURB RAMPS, SHALL BE NO GREATER THAN 1:20. WALKING SURFACE CROSS SLOPES OF AN ACCESSIBLE ROUTE SHALL NOT EXCEED 1:48.
 - THE MAXIMUM SLOPE OF A RAMP OR CURB RAMP SHALL BE 1:12 OR LESS. THE MAXIMUM RISE FOR ANY RUN SHALL BE 30 INCHES.
 - THE MINIMUM CLEAR WIDTH OF A RAMP 30 FEET OR LESS SHALL BE 36 INCHES. RAMPS MORE THAN 30 FEET IN LENGTH SHALL HAVE A MINIMUM CLEAR WIDTH OF 44 INCHES.
 - RAMPS SHALL HAVE LANDINGS AT BOTTOM AND TOP OF EACH RAMP AND EACH RAMP RUN WITH SLOPES NOT STEEPER THAN 1:48.
 - LANDINGS SHALL BE AT LEAST AS WIDE AS THE WIDTH OF THE RAMP RUN LEADING TO IT AND SHALL BE A MINIMUM OF 40 INCHES IN LENGTH. IF RAMPS CHANGE DIRECTION AT LANDINGS, THE MINIMUM LANDING SIZE SHALL BE 40 INCHES x 60 INCHES. CURB RAMPS SHALL HAVE A MINIMUM OF 36 INCHES CLEAR LENGTH.
 - IF A RAMP RUN HAS A RISE GREATER THAN 6 INCHES, THEN IT SHALL HAVE HAND RAILS ON BOTH SIDES.
 - CHANGES IN LEVEL UP TO 1/4 INCH MAY BE VERTICAL AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. CHANGES IN LEVEL GREATER THAN 1/2 INCH SHALL BE ACCOMPLISHED BY MEANS OF A RAMP.
 - THE MINIMUM WIDTH OF A CURB RAMP SHALL BE 36 INCHES, EXCLUSIVE OF FLARED SIDES.
 - FOR PURPOSE OF WARNING, THE FULL WIDTH AND DEPTH OF CURB RAMPS SHALL HAVE TRUNCATED DOMES WHICH SIGNIFICANTLY CONTRASTS WITH THAT OF ADJOINING PEDESTRIAN ROUTES. TRUNCATED DOMES SHALL BE LOCATED FOR A DISTANCE OF 24 INCHES IN DIRECTIONS OF TRAVEL.
 - IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, OR WHERE IT IS NOT PROTECTED BY HANDRAILS OR GUARDRAILS, IT SHALL HAVE FLARED SIDES; THE MAXIMUM SLOPE OF THE FLARE SHALL BE 1:10. CURB RAMPS WITH RETURNED CURBS MAY BE USED WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. THE MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20.
 - BUILT-UP CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES OR INTO SPACES THAT WOULD INTERFERE WITH PERSONS ENTERING OR EXITING PARKED OR STANDING VEHICLES.
 - CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES.
 - MARKED CROSSINGS THAT ARE RAISED TO THE SAME LEVEL AS THE ADJOINING SIDEWALK SHALL BE PRECEDED BY A 24 INCH DEEP AREA OF TRUNCATED DOMES EXTENDING THE FULL WIDTH OF THE MARKED CROSSING.
 - ACCESSIBLE PARKING SPACE:
 - ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:48 IN ALL DIRECTIONS.
 - LANDING & THRESHOLD:
 - ALL DOORS REQUIRED TO BE ACCESSIBLE, SHALL BE PROVIDED WITH LEVER HANDLES OR PUSH/PULL HARDWARE.
 - ALL DETAILS SHALL CONFORM TO A117.1
 - LANDINGS SHALL BE HARD, FIRM AND SLIP RESISTANT SURFACES AND SHALL HAVE SLOPES OF LESS THAN 1:48 IN ALL DIRECTIONS.
 - DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
 - THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN ACCESSIBLE INTERIOR HINGED DOORS SHALL BE 5 LB/FT.
 - HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED 34 INCHES MINIMUM TO 48 INCHES MAXIMUM ABOVE THE FINISHED FLOOR.
 - CHANGES IN LEVEL OF 1/4 INCH HEIGHT SHALL BE PERMITTED TO BE VERTICAL.
 - CHANGES IN LEVEL GREATER THAN 1/4 INCH HEIGHT AND NOT MORE THAN 1/2 INCH MAXIMUM HIGH SHALL BE BEVELED TO A SLOPE NO STEEPER THAN 1:2.
 - SURFACE:
 - ALL ACCESSIBLE ROUTES / ACCESS ELEMENTS SHALL BE STABLE, FIRM AND SLIP RESISTANT.
 - ACCESSIBLE ROUTES SHALL NOT BE STEEPER THAN 1:20. CROSS SLOPES OF A WALKING SURFACE SHALL NOT BE STEEPER THAN 1:48.
 - FLOOR SURFACES OF A CLEAR FLOOR SPACE SHALL HAVE A SLOPE NOT STEEPER THAN 1:48.

OFFICE:
WESTFIELD, MA
JOB NO.
115-064715

LORI JERUSIK
CHICOPEE, MA

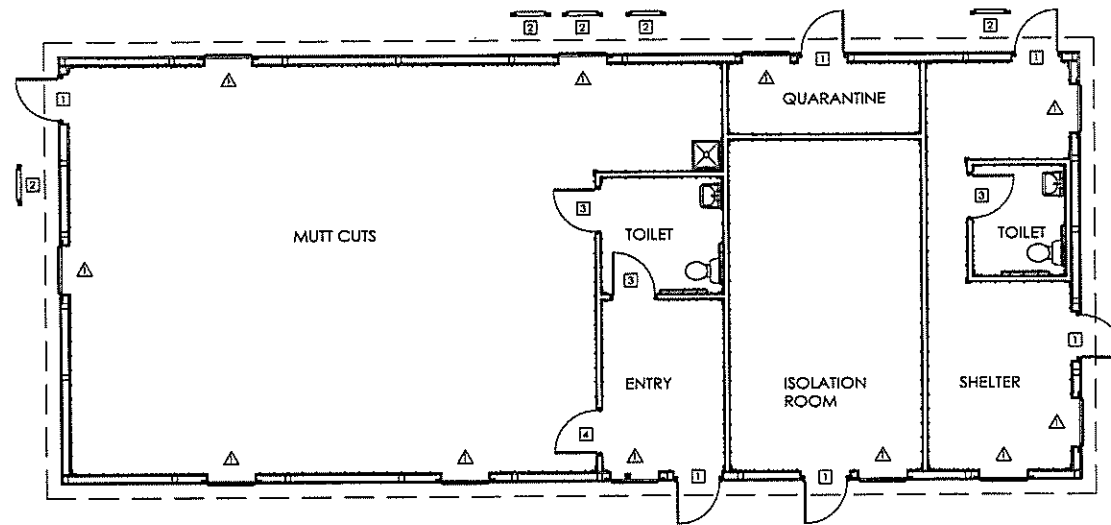
ALLIED DESIGN ARCHITECTURAL & ENGINEERING GROUP, P.C.
100 S. PERSHING P.O. BOX 110 MORTON, IL 61550
PHONE NUMBER: 309-263-4105

DRAWN BY:	POLHEMUS
DATE:	11/26/2016
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SCALE: AS NOTED
SHEET NO.
A1 OF A4

ROUGH OPENING SCHEDULE		
UNIT SYMBOL FROM LEGEND	WIDTH	HEIGHT
①	37 3/4"	81"
②	VERIFY	VERIFY
△	40 1/4"	48 1/4"



INTERIOR LAYOUT LEGEND

- ① - (6) 3068 MB910 9-LITE GLASS IN PLAIN FLAT LEAF WALKDOORS, OUT SWING, LEFT HINGE WITH CLOSER, LOCKSET
- ② - (5) 2'-0" x 3'-0" FRAMED OPENINGS (VERIFY LOCATIONS) ◆
- ③ - (3) 3'-0" x 6'-8" INTERIOR WALKDOORS W/ PRIVACY LEVER LOCKSETS ◆
- ④ - 3'-0" x 6'-8" INTERIOR WALKDOOR W/ LEVER HARDWARE ◆
- △ - (11) 3440 MB SINGLE HUNG WINDOWS

INTERIOR LAYOUT



DESIGN AND EXPLANATORY NOTES

FLOOR PLAN ACCESSIBILITY

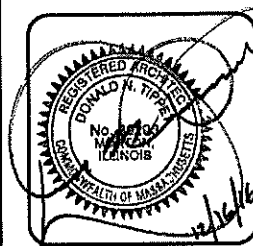
1. SINKS.
 - A. SINKS SHALL BE MOUNTED WITH RIM NO HIGHER THAN 34 INCHES ABOVE FINISHED FLOOR.
 - B. KNEE CLEARANCE AT LEAST 27 INCHES HIGH, 30 INCHES WIDE AND 17 INCHES DEEP SHALL BE PROVIDED UNDERNEATH SINKS.
 - C. SINKS SHALL BE A MAXIMUM OF 6-1/2 INCHES DEEP.
 - D. HOT WATER AND DRAIN PIPES EXPOSED UNDER SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT.
 - E. FAUCETS SHALL BE LEVER-OPERATED OR AUTOMATED.
 - F. A CLEAR FLOOR SPACE AT LEAST 30 INCHES WIDE BY 48 INCHES DEEP SHALL BE PROVIDED IN FRONT OF SINKS TO ALLOW FOR FORWARD APPROACH, WHEN FORWARD APPROACH IS REQUIRED, THE CLEAR FLOOR SPACE SHALL EXTEND A MAXIMUM OF 19 INCHES UNDERNEATH THE SURFACE.
2. DOORS.
 - A. DOOR HARDWARE THROUGHOUT BUILDING SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE, THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LB/FT.
3. DINING / WORK SURFACES.
 - A. THE TOP OF THE COUNTER, TABLE, OR WORK STATION RESERVED FOR HANDICAPPED PERSONS SHALL BE 28 TO 34 INCHES ABOVE THE FINISHED FLOOR HEIGHT WITH A MINIMUM WORK SURFACE OF 36 INCHES LONG FOR SIDE APPROACH OR 30 INCHES LONG FOR FRONT APPROACH. KNEE AND TOE CLEARANCE SHALL BE PROVIDED UNDER THE WORKING SURFACES.
 - B. FLOOR SURFACES WITHIN MANEUVERING CLEARANCES SHALL HAVE A SLOPE NOT STEEPER THAN 1:48.
4. SALES AND SERVICE COUNTERS.
 - A. PARALLEL APPROACH:
 - 1) A PORTION OF THE COUNTER SURFACE 36 INCHES MINIMUM IN LENGTH AND 36 INCHES MAXIMUM IN HEIGHT ABOVE THE FLOOR SHALL BE PROVIDED.
 - 2) WHERE THE COUNTER SURFACE IS LESS THAN 36 INCHES IN LENGTH, THE ENTIRE COUNTER SURFACE SHALL BE 36 INCHES MAXIMUM IN HEIGHT ABOVE THE FLOOR.
 - 3) A CLEAR FLOOR SPACE POSITIONED FOR A PARALLEL APPROACH ADJACENT TO THE ACCESSIBLE COUNTER SHALL BE PROVIDED.
 - B. FORWARD APPROACH:
 - 1) A PORTION OF THE COUNTER SURFACE 30 INCHES MINIMUM IN LENGTH AND 36 INCHES MAXIMUM IN HEIGHT ABOVE THE FLOOR SHALL BE PROVIDED.
 - 2) A CLEAR FLOOR SPACE POSITIONED FOR A FORWARD APPROACH TO THE ACCESSIBLE COUNTER SHALL BE PROVIDED.
 - 3) KNEE AND TOE CLEARANCE SHALL BE PROVIDED UNDER THE ACCESSIBLE COUNTER.
5. SIGNAGE.
 - A. SIGNAGE IS REQUIRED AT THE FOLLOWING LOCATIONS:
 - 1) AT ALL NON-ACCESSIBLE ENTRANCES INDICATING THE LOCATION OF THE ACCESSIBLE ENTRANCES.
 - 2) SIGNS STATING "EXIT" SHALL BE PROVIDED ADJACENT TO EACH DOOR THAT LEADS TO A CORRIDOR, STAIRWELL, OR TO THE EXTERIOR OF THE BUILDING.
 - 3) SIGNAGE SHOWING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE LOCATED AT ALL RESTROOMS.
 - B. ALL SIGNS SHALL INCLUDE TACTILE SIGNAGE INCLUDING ANY OPTIONAL INTERIOR AND EXTERIOR SIGNAGE IDENTIFYING PERMANENT ROOMS AND SPACES.
 - C. TACTILE AND BRAILLE SIGNAGE SHALL BE LOCATED 48 INCHES MINIMUM TO 60 INCHES MAXIMUM ABOVE THE FLOOR OR GROUND SURFACE, MEASURED TO THE BASE LINE OF THE HIGHEST TACTILE LETTER.
 - D. TACTILE SIGNAGE SHALL BE LOCATED AT THE LATCH SIDE OF A DOORWAY, AT DOUBLE DOORS SIGNAGE SHALL BE PROVIDED ON THE SIDE OF ANY INACTIVE LEAF. IF BOTH DOORS ARE ACTIVE THE SIGNAGE SHALL BE PLACED TO THE RIGHT SIDE OF THE DOORWAY. IF SPACE IS NOT AVAILABLE FOR SIGNAGE IN THESE LOCATIONS, SIGNAGE SHALL BE LOCATED ON THE NEAREST ADJACENT WALL TO THE AREA SPECIFIED.
 - E. A MINIMUM 18 INCHES x 18 INCHES CLEAR FLOOR AREA CENTERED ON THE TACTILE SIGNAGE SHALL BE PROVIDED BEYOND THE ARC OF THE DOORWAY. SIGNAGE SHALL BE ALLOWED ON THE PUSH SIDE OF DOORS WITH CLOSERS WITHOUT HOLD OPEN DEVICES.
 - F. NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.
 - G. STREET ADDRESS SHALL BE POSTED IN NOT LESS THAN 4 INCH HIGH LETTERS/NUMBERS (6 INCH RECOMMENDED) WITH A MINIMUM STROKE DEPTH OF 0.5 INCH ON THE BUILDING.
6. THRESHOLDS.
 - A. ALL DOORS REQUIRED TO BE ACCESSIBLE, SHALL BE PROVIDED WITH LEVER HANDLES OR PUSH/PULL HARDWARE.
 - B. ALL DETAILS SHALL CONFORM TO A117.1
 - C. ACCESSIBLE ROUTES SHALL HAVE SLOPES OF LESS THAN 1:20. CROSS SLOPES SHALL NOT EXCEED 1:48.
 - D. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
 - E. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN ACCESSIBLE INTERIOR HINGED DOORS SHALL BE 5 LB/FT.
 - F. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED 34 INCHES MINIMUM TO 48 INCHES MAXIMUM ABOVE THE FINISHED FLOOR.
 - G. CHANGES IN LEVEL OF 1/4 INCH HEIGHT SHALL BE PERMITTED TO BE VERTICAL.
 - H. CHANGES IN LEVEL GREATER THAN 1/4 INCH IN HEIGHT AND NOT MORE THAN 1/2 INCH MAXIMUM HIGH SHALL BE BEVELED TO A SLOPE NO STEEPER THAN 1:2.
7. SURFACES.
 - A. FLOOR SURFACE SHALL BE STABLE, FIRM AND SLIP RESISTANT.
 - B. FLOOR SURFACES OF A CLEAR FLOOR SPACE SHALL HAVE A SLOPE NOT STEEPER THAN 1:48.
8. EXTERIOR DOOR AND WINDOW LOCATIONS ARE TAKEN FROM THE EXTERIOR FACE OF THE MAILERS AND ARE TO THE CENTER OF THE DOOR AND WINDOW UNITS. VERIFY ALL DOOR, WINDOW, SKYLIGHT AND SIDELIGHT LOCATIONS WITH THE OWNER.
9. INTERIOR COMPONENTS THAT ARE PROVIDED BY MORTON BUILDINGS, INC. OR MORTON BUILDINGS, INC. SUBCONTRACTORS SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - A. INTERIOR DIMENSIONS ARE TAKEN FROM THE INSIDE EDGE OF THE INTERIOR STRIPPING.
 - B. INTERIOR STUDWALL DIMENSIONS ARE TAKEN FROM THE CENTERLINE OF THE STUDWALL.
 - C. STUDWALLS ARE TO BE 2x4's @ 16" O.C. UNLESS SPECIFIED OTHERWISE.

OFFICE:
WESTFIELD, MA
JOB NO.
115-064715

LORI JERUSIK
CHICOPPEE, MA

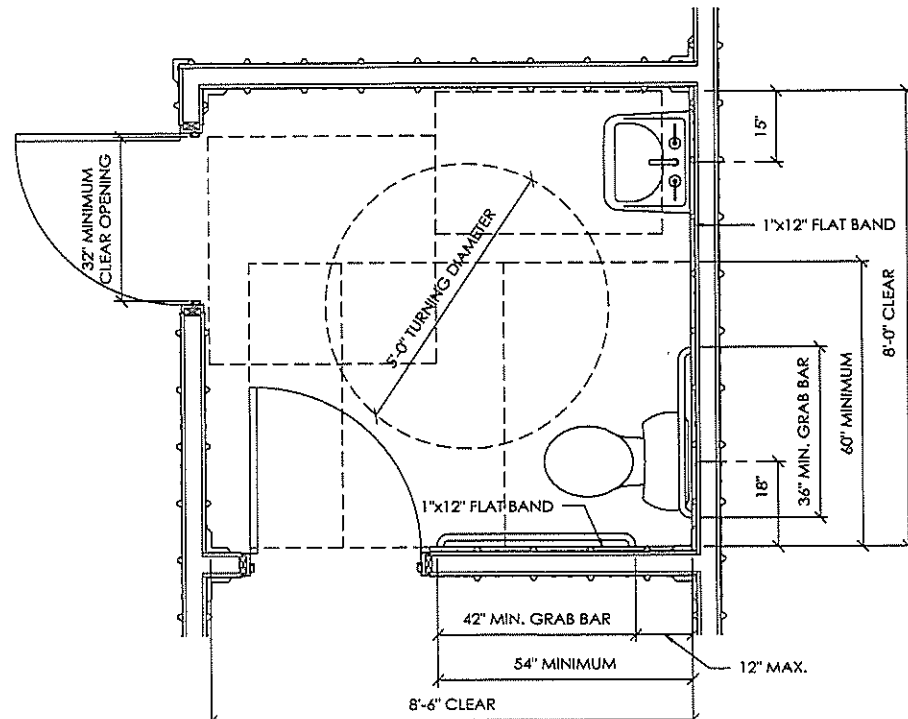
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SCALE: AS NOTED
SHEET NO.
A2 OF A4

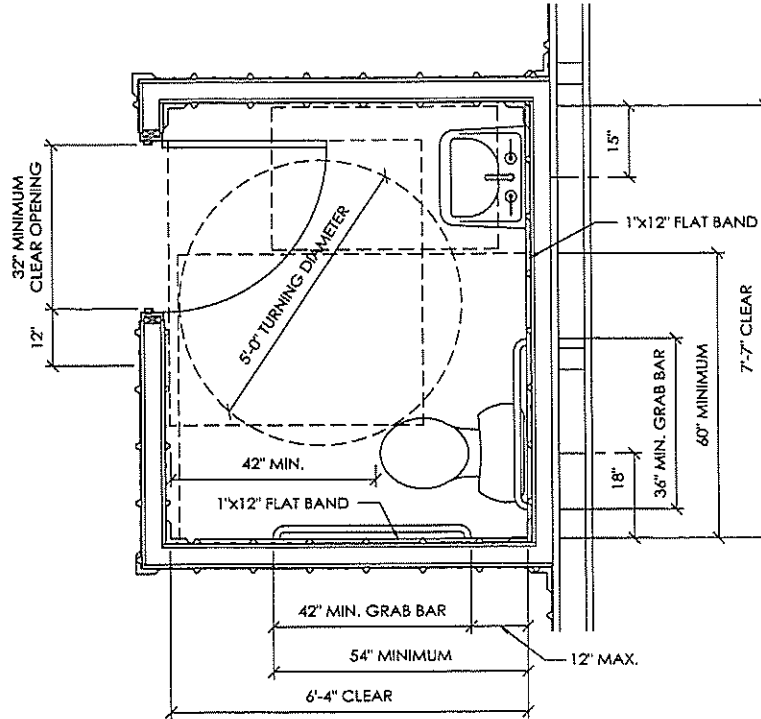
MASSACHUSETTS ACCESSIBILITY REQUIREMENTS



RESTROOM CLEARANCE LAYOUT

SCALE: 1/2" = 1'-0"

* NOTE:
BARRIER FREE RESTROOMS SHALL BE IDENTIFIED WITH INTERNATIONAL SYMBOL OF COMPLIANCE AND A TACTILE SIGN. THE SYMBOL OF COMPLIANCE SHALL BE LOCATED BETWEEN 60" & 96" AFF. THE TACTILE SIGN SHALL BE MOUNTED 60" AFF ADJACENT TO THE LATCH SIDE OF THE DOOR.

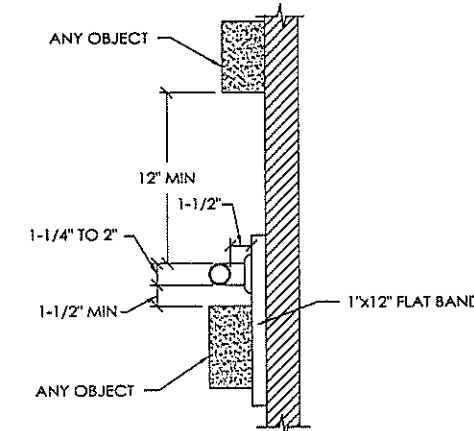


RESTROOM CLEARANCE LAYOUT

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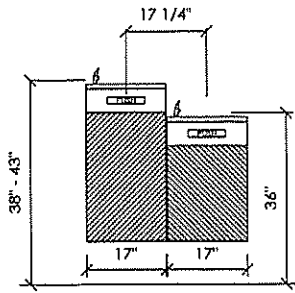
DESIGN AND EXPLANATORY NOTES

- RESTROOM CRITERIA
 - IMPERVIOUS SURFACE TO BE PROVIDED IN RESTROOMS WITHIN TWO FEET OF WATER CLOSETS AND URINALS TO A HEIGHT OF FOUR FEET FROM FLOOR. A SMOOTH, HARD, NONABSORBENT FLOOR SURFACE AND A 6 INCH SMOOTH, HARD, NONABSORBENT BASE TRIM TO BE PROVIDED THROUGHOUT ENTIRE RESTROOM.
 - BARRIER FREE RESTROOMS SHALL BE IDENTIFIED WITH INTERNATIONAL SYMBOL OF COMPLIANCE AND A TACTILE SIGN. THE SYMBOL OF COMPLIANCE SHALL BE LOCATED BETWEEN 48 INCHES AND 60 INCHES ABOVE FINISHED FLOOR. THE TACTILE SIGN SHALL BE MOUNTED 48 INCHES AND 60 INCHES ABOVE FINISHED FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.
- BOTTOM OF MIRROR AND SOAP DISPENSER SHALL BE AT SAME HEIGHT.
- FLUSH LEVER SHALL BE ON THE APPROACH SIDE OF THE WATER CLOSET.
- SPOUT SHALL PROVIDE A 4 INCH HIGH MINIMUM FLOW OF WATER.
- GRAB BARS SHALL HAVE A CIRCULAR CROSS SECTION WITH AN OUTSIDE DIAMETER OF 1 1/4" MINIMUM AND A 2" MAXIMUM.



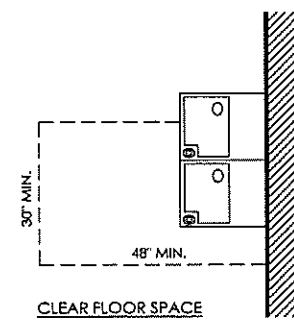
GRAB BAR CLEARANCES

SCALE: 1-1/2" = 1'-0"



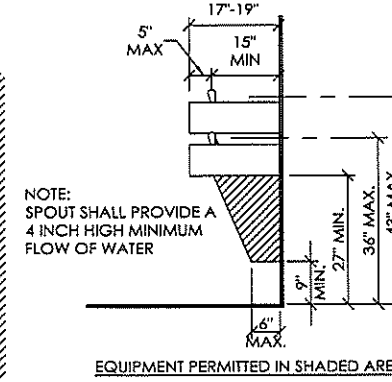
ACCESSIBLE DRINKING FOUNTAIN ELEVATIONS

SCALE: 1/2" = 1'-0"

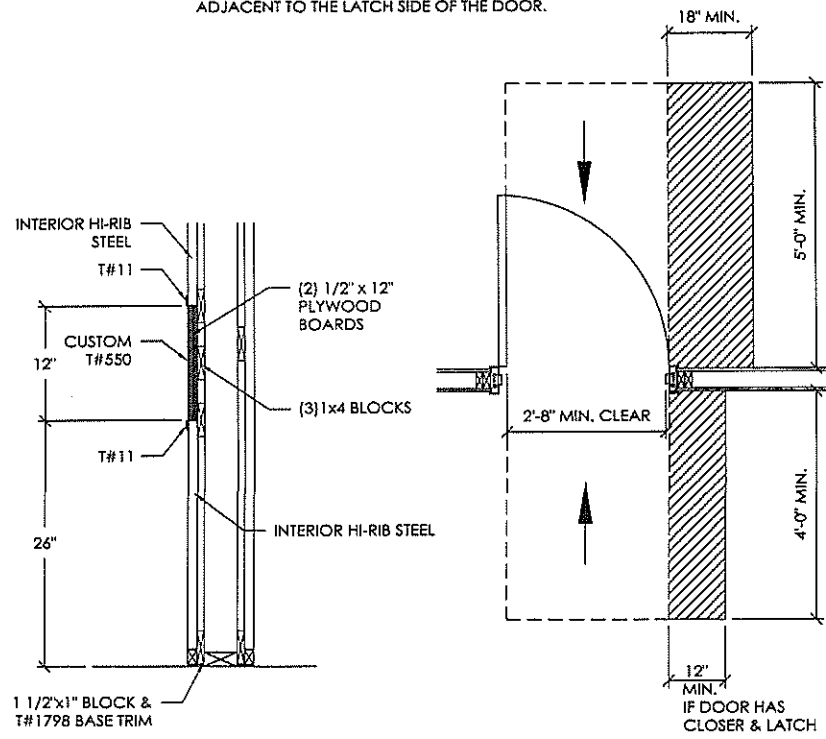


ACCESSIBLE DRINKING FOUNTAIN DETAILS

SCALE: 1/2" = 1'-0"



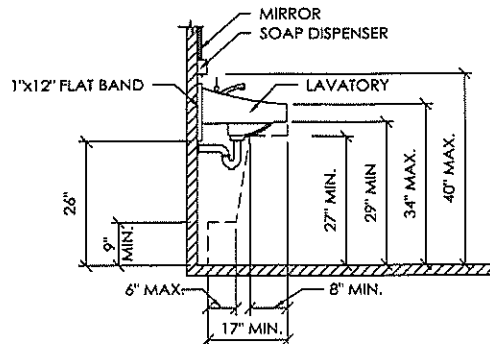
EQUIPMENT PERMITTED IN SHADED AREA



FLAT BAND DETAILS

SCALE: 1" = 1'-0"

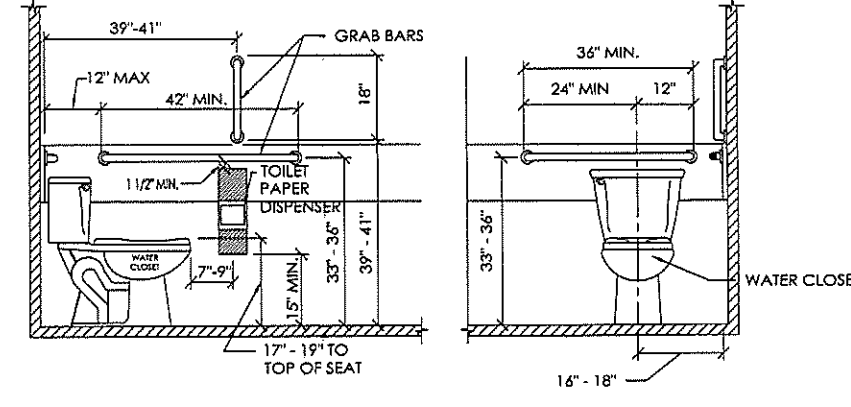
TYPICAL ACCESSIBILITY CLEARANCE DETAIL FOR FORWARD APPROACH



SIDE ELEVATION OF WALL-HUNG LAVATORY

SCALE: 1/2" = 1'-0"

SEE NOTE #2



SIDE ELEVATION OF WATER CLOSET

FRONT ELEVATION

ACCESSIBLE WATER CLOSET DETAILS

SCALE: 1/2" = 1'-0"

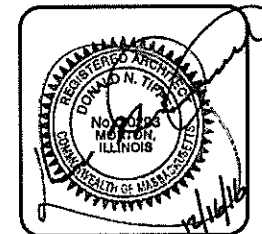
SEE NOTE #3

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CHICOPEE, MA

ALLIED DESIGN ARCHITECTURAL & ENGINEERING GROUP, P.C.
100 S. PERSHING P.O. BOX 110 MORTON, IL 61550
PHONE NUMBER: 309-263-4105

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DATE:	11/30/2016
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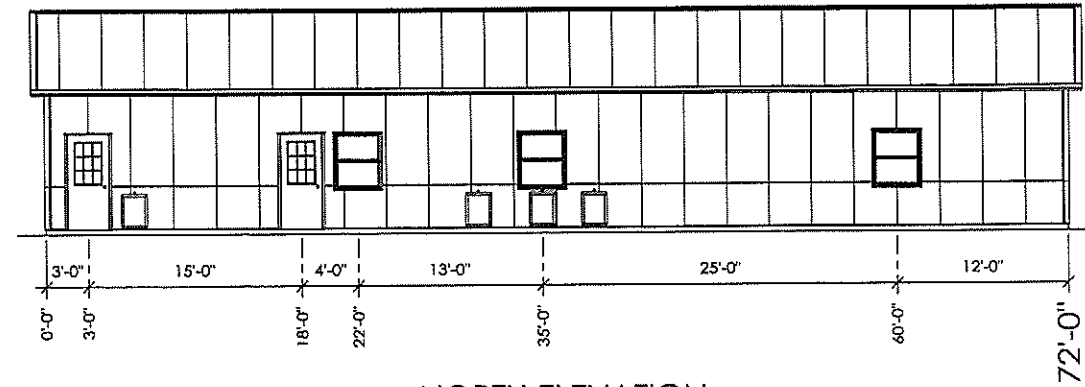


SCALE: AS NOTED
SHEET NO.
A3 OF A4

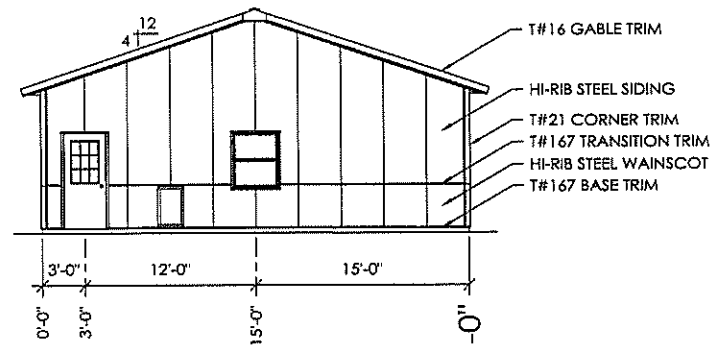
DESIGN AND EXPLANATORY NOTES

1.) EXTERIOR DOOR AND WINDOW LOCATIONS ARE TAKEN FROM THE EXTERIOR FACE OF THE NAILERS AND ARE TO THE CENTER OF THE DOOR AND WINDOW UNITS. VERIFY ALL DOOR, WINDOW, SKYLIGHT AND SIDELIGHT LOCATIONS WITH THE OWNER.

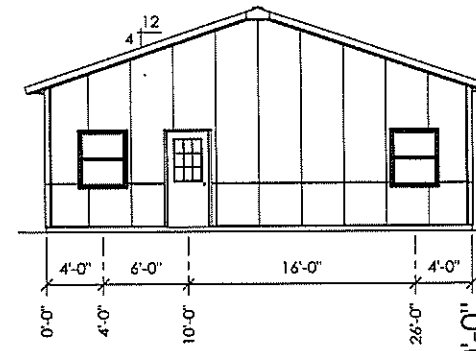
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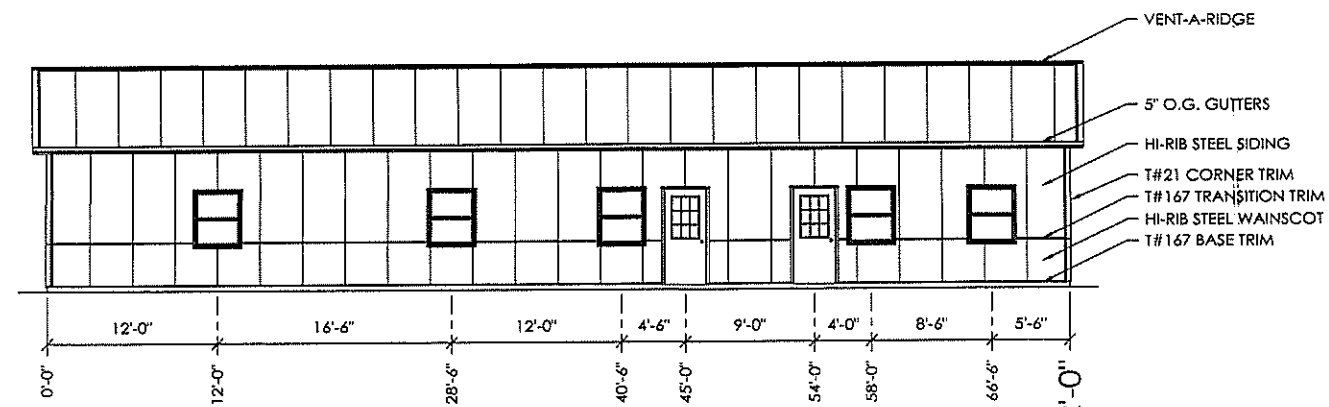
NORTH ELEVATION



WEST ELEVATION



EAST ELEVATION

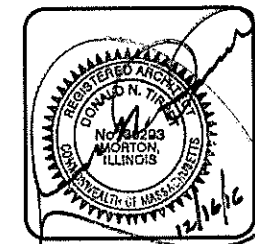


SOUTH ELEVATION

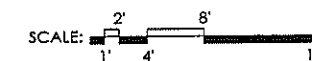
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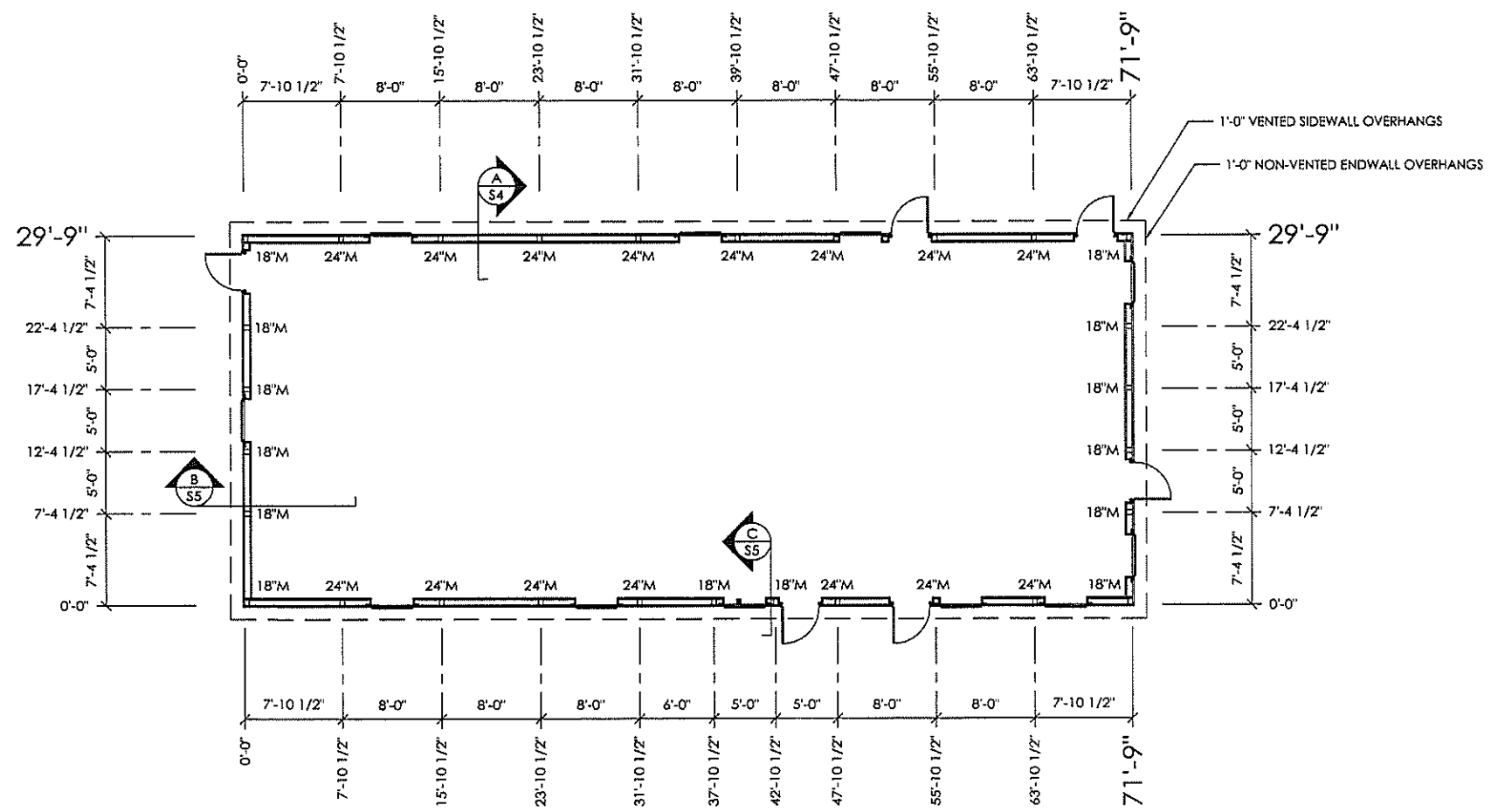


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A4 of A4



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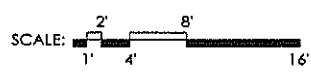
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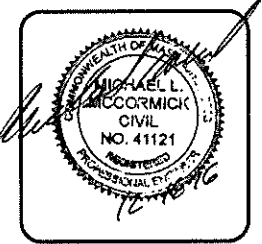
COLUMN PLAN LEGEND

- - 3-2x6 LAMINATED COLUMN LOCATION
- - HEADERED TRUSS LOCATION
- 30x30 ATTIC ACCESS PANEL (VERIFY LOCATION)
- ALL STEEL FASTENED WITH STAINLESS STEEL SCREWS
- 18\"/>

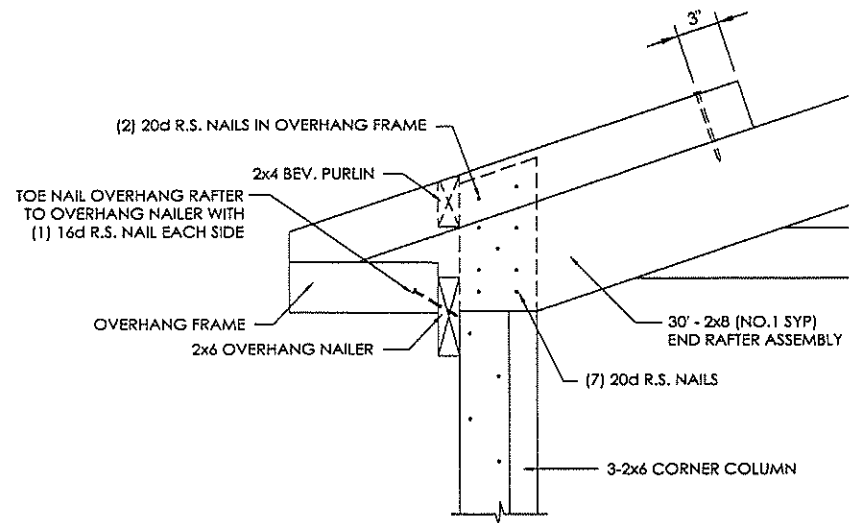
COLUMN PLAN



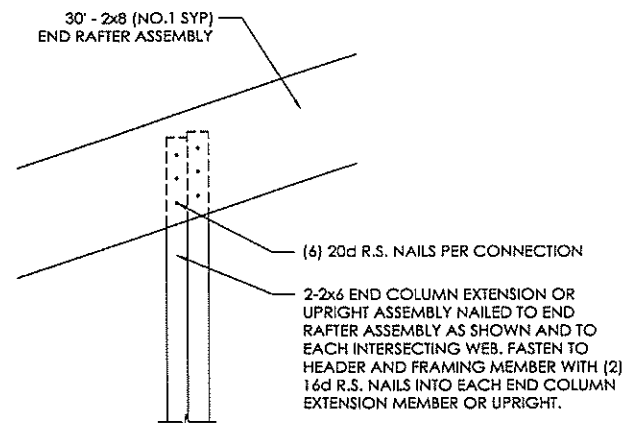
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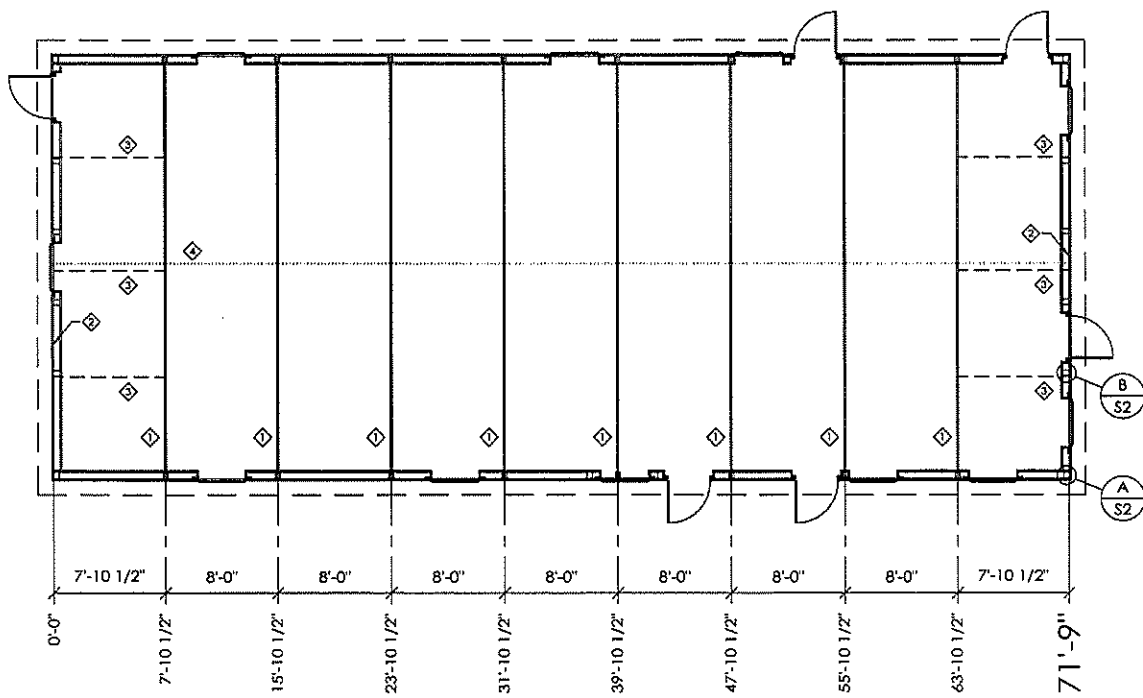
SCALE: AS NOTED
SHEET NO.
S1 of S5



DETAIL A
SCALE: 1 1/2" = 1'-0"



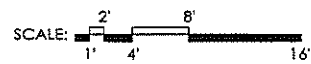
DETAIL B
SCALE: 1 1/2" = 1'-0"



TRUSS/BRACING PLAN LEGEND

- ◇ - 30' 4090 S.C. TRUSSES @ 8'-0" O.C.
- ◇ - 30' END RAFTER ASSEMBLY
- ◇ - 2x6 DIAGONAL END BRACES (TO EXTEND TO FIRST TRUSS IN FROM ENDWALL)
- ◇ - 2x6 FLAT TRUSS TIE CENTERED IN BUILDING

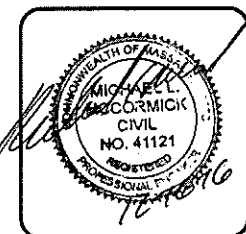
TRUSS/BRACING PLAN



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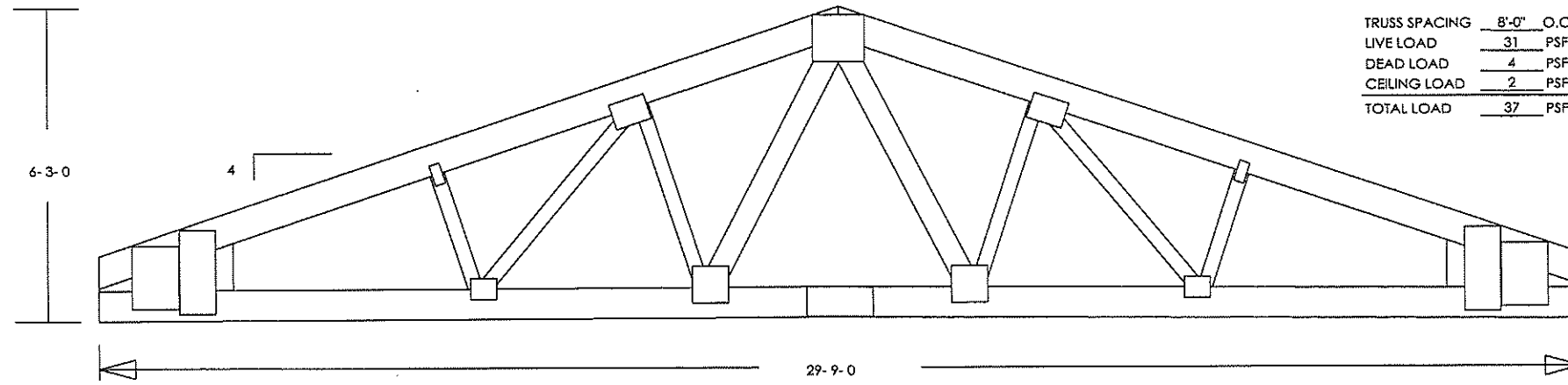
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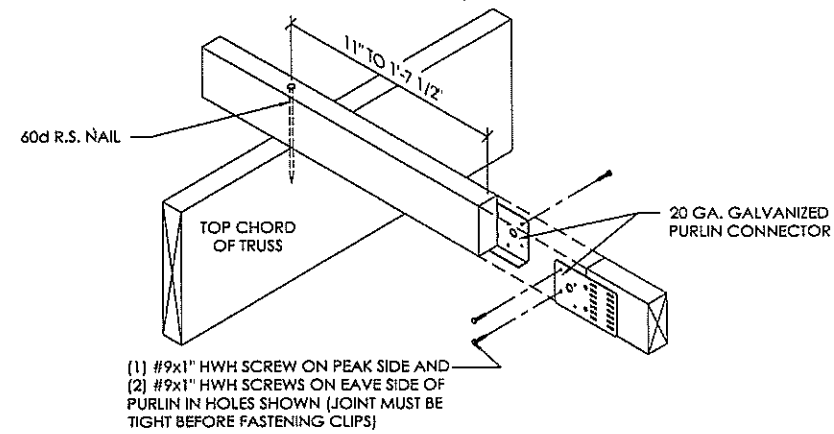
SCALE: AS NOTED
SHEET NO.
S2 OF S5

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TRUSS SPACING	8'-0"	O.C.
LIVE LOAD	31	PSF
DEAD LOAD	4	PSF
CEILING LOAD	2	PSF
TOTAL LOAD	37	PSF

30' S.C. 4090 TRUSS
SCALE: 1/2" = 1'-0"



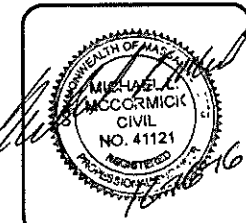
(1) #9x1" HWH SCREW ON PEAK SIDE AND
(2) #9x1" HWH SCREWS ON EAVE SIDE OF
PURLIN IN HOLES SHOWN (JOINT MUST BE
TIGHT BEFORE FASTENING CLIPS)

2x4 BUTTED PURLIN DETAIL
(PURLIN CONNECTED WITH 60D R.S. NAIL)
SCALE: 1 1/2" = 1'-0"

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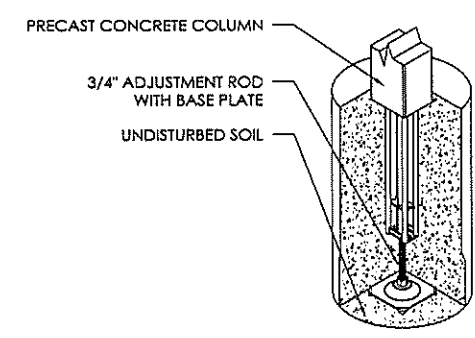
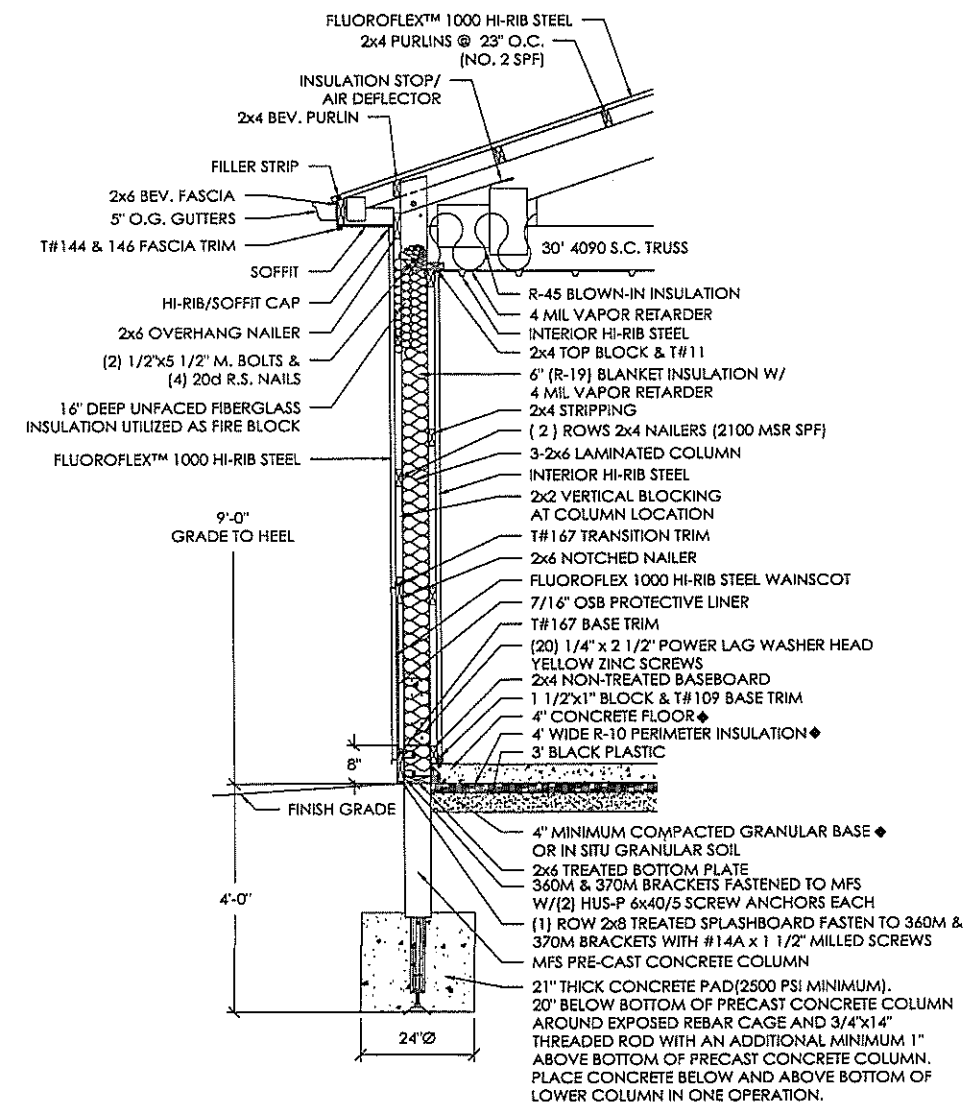
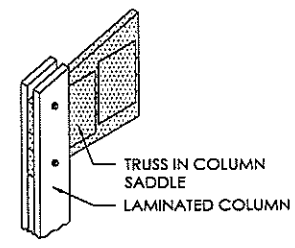
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SCALE: AS NOTED
SHEET NO.
S3 OF S5

DESIGN AND EXPLANATORY NOTES

1. FOOTINGS ARE DESIGNED FOR A 2000 PSF SOIL BEARING CAPACITY. LOCAL CONDITIONS MAY REQUIRE MODIFICATIONS.
2. CONCRETE FLOOR NOTES:
 - a. 3500 PSI, 5 1/2 BAG MIX CONCRETE.
 - b. SLOPE GRADE AWAY FROM BUILDING @ 1" PER FOOT FOR A MINIMUM DISTANCE OF 10' PLUS OVERHANG WIDTH.
 - c. PLACE A MINIMUM 6 MIL POLYETHYLENE VAPOR RETARDER OVER A COMPACTED GRANULAR BASE AND DIRECTLY BELOW THE CONCRETE FLOOR.
 - d. CONTRACTION JOINTS UNIFORMLY SPACED 12' O.C. OR LESS.
3. PRIOR TO PLACING THE CONCRETE FOOTINGS, HAND TAMP THE BOTTOM 2'-3" OF LOOSE SOIL TO CONSOLIDATE. IF THE DRILLED HOLE CONTAINS MORE THAN 3" OF LOOSE SOIL, REMOVE EXCESS SOIL TO A UNIFORM THICKNESS OF 2'-3", HAND TAMP AND PROCEED WITH CONCRETE FOOTING PLACEMENT.
4. DO NOT PLACE CONCRETE FOOTING THROUGH MORE THAN 3" OF STANDING WATER. IF MORE THAN 3" OF STANDING WATER IS PRESENT IN THE FOOTING HOLE CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR INSTALLATION INSTRUCTIONS.



LOWER COLUMN INSTALLATION

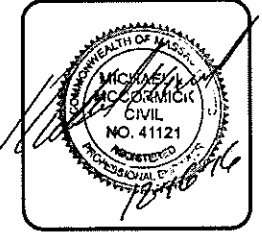
1. INSTALL PRECAST CONCRETE COLUMN W/ADJUSTMENT ROD & BASE PLATE IN THE AUGERED HOLE.
2. PLUMB PRECAST CONCRETE COLUMN IN BOTH DIRECTIONS.
3. ADJUST HEIGHT UP OR DOWN WITH ADJUSTMENT HEX ROD.
4. POUR READY-MIX CONCRETE INTO THE HOLE AS SPECIFIED.
5. BACKFILL AND COMPACT THE ANNULAR SPACE AROUND THE COLUMN TO GRADE WITH SOIL AUGERED FROM THE SITE.

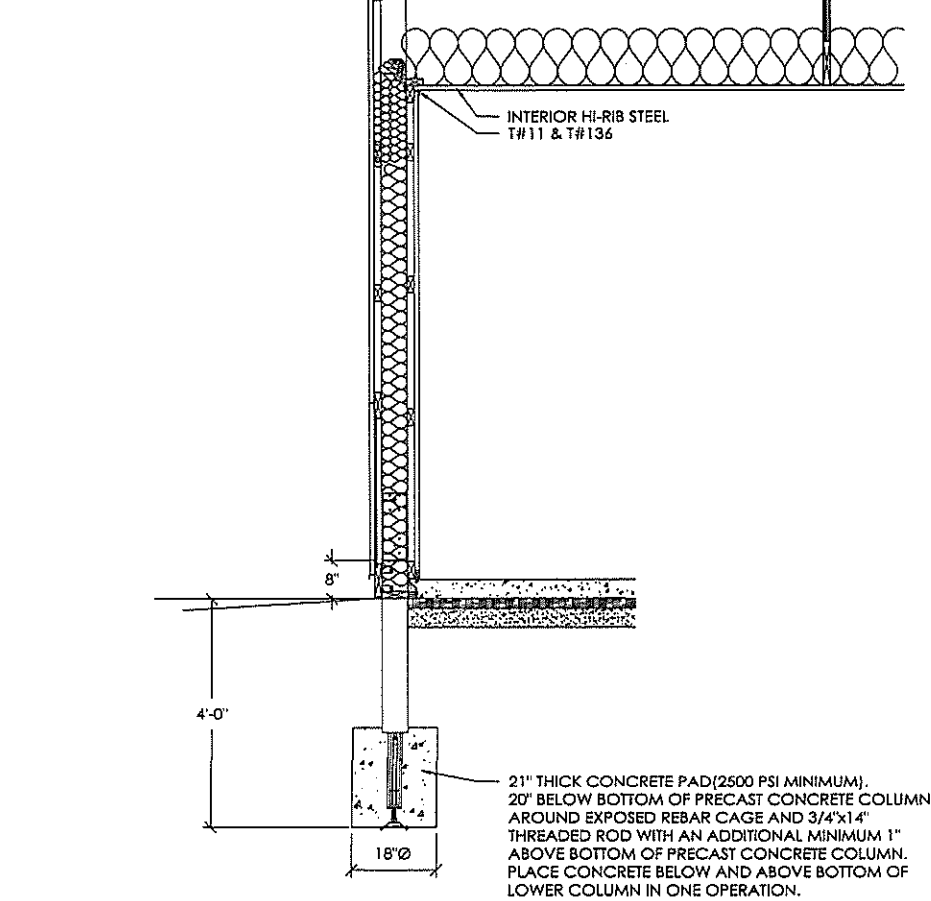
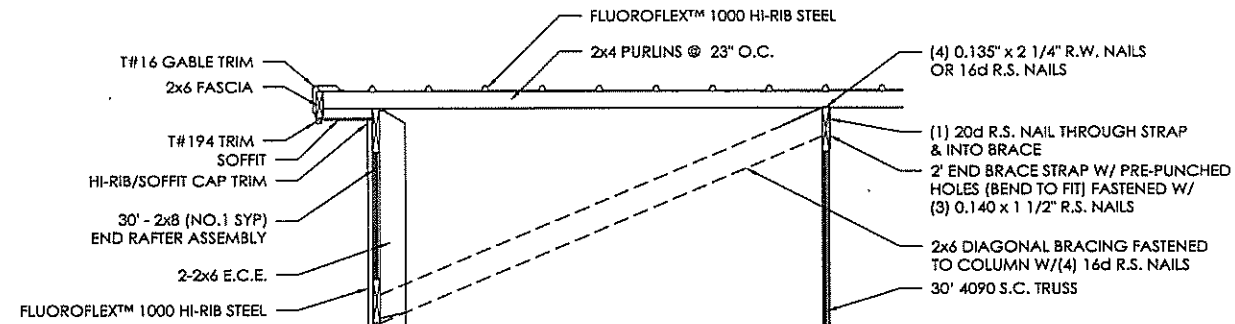
LOWER COLUMN ISOMETRIC

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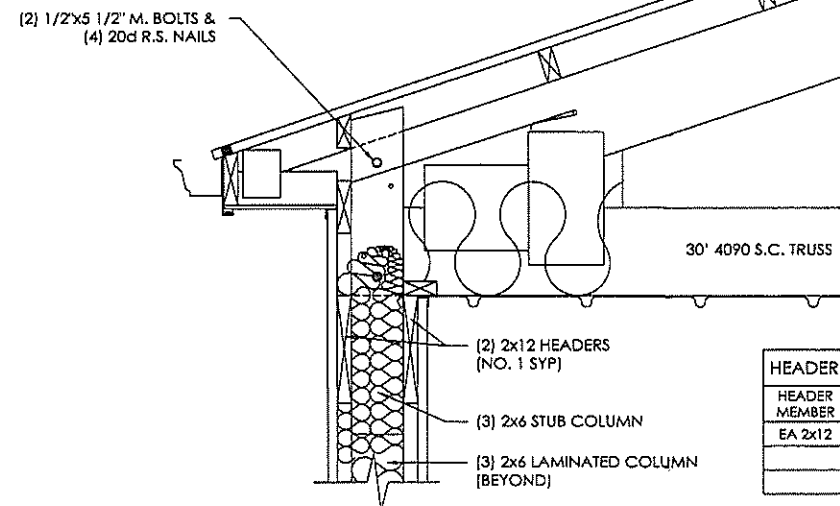
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100 S. PERSHING P.O. BOX 110 MORTON, IL 61550
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ENDWALL SECTION B
SCALE: 1/2" = 1'-0"



WINDOW HEADER SECTION C
SCALE: 1" = 1'-0"

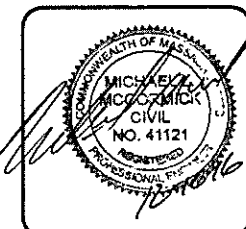
HEADER NAILING SCHEDULE		
HEADER MEMBER	STUB COLUMN	JAMB COLUMN
EA 2x12	11	8

- NOTES:
- NUMBERS ABOVE ARE 20d R.S. NAILS REQUIRED PER CONNECTION.
 - PRE-DRILL HEADERS AS REQUIRED TO PREVENT SPLITTING.
 - IF NUMBER OF NAILS REQUIRED FOR HEADER TO JAMB COLUMN CONNECTION IS EXCESSIVE TO CAUSE SPLITTING, THE EXCESS NAILS MAY BE INSTALLED IN HEADER SUPPORT BLOCKING.

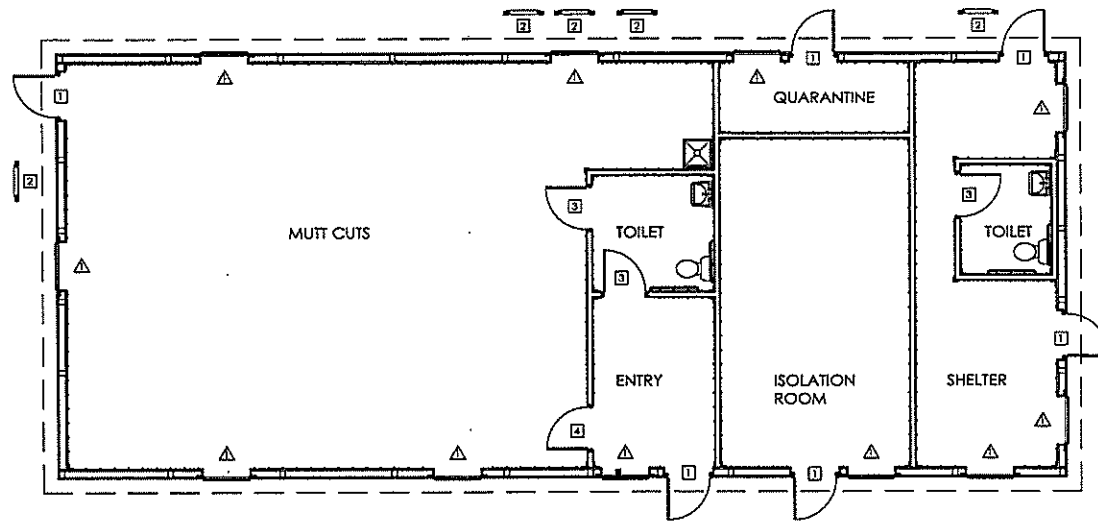
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ROUGH OPENING SCHEDULE		
UNIT SYMBOL FROM LEGEND	WIDTH	HEIGHT
[1]	37 3/4"	81"
[2]	VERIFY	VERIFY
△	40 1/4"	48 1/4"

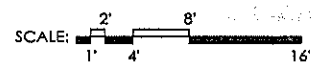


INTERIOR LAYOUT LEGEND

- [1] - (6) 3068 MB910 9-LITE GLASS IN PLAIN FLAT LEAF WALKDOORS, OUT SWING, LEFT HINGE WITH CLOSER, LOCKSET
- [2] - (5) 2'-0" x 3'-0" FRAMED OPENINGS (VERIFY LOCATIONS) ◆
- [3] - (3) 3'-0" x 6'-8" INTERIOR WALKDOORS W/ PRIVACY LEVER LOCKSETS ◆
- [4] - 3'-0" x 6'-8" INTERIOR WALKDOOR W/ LEVER HARDWARE ◆
- △ - (11) 3440 MB SINGLE HUNG WINDOWS

INTERIOR LAYOUT

N



DESIGN AND EXPLANATORY NOTES
FLOOR PLAN ACCESSIBILITY

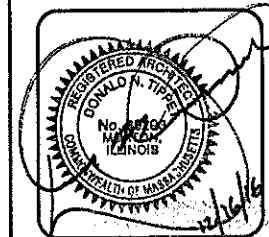
1. SINKS.
 - A. SINKS SHALL BE MOUNTED WITH RIM NO HIGHER THAN 34 INCHES ABOVE FINISHED FLOOR.
 - B. KNEE CLEARANCE AT LEAST 27 INCHES HIGH, 30 INCHES WIDE AND 17 INCHES DEEP SHALL BE PROVIDED UNDERNEATH SINKS.
 - C. SINKS SHALL BE A MAXIMUM OF 6-1/2 INCHES DEEP.
 - D. HOT WATER AND DRAIN PIPES EXPOSED UNDER SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT.
 - E. FAUCETS SHALL BE LEVER-OPERATED OR AUTOMATED.
 - F. A CLEAR FLOOR SPACE AT LEAST 30 INCHES WIDE BY 48 INCHES DEEP SHALL BE PROVIDED IN FRONT OF SINKS TO ALLOW FOR FORWARD APPROACH, WHEN FORWARD APPROACH IS REQUIRED, THE CLEAR FLOOR SPACE SHALL EXTEND A MAXIMUM OF 19 INCHES UNDERNEATH THE SURFACE.
2. DOORS.
 - A. DOOR HARDWARE THROUGHOUT BUILDING SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE, THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LB/FT.
3. DINING / WORK SURFACES.
 - A. THE TOP OF THE COUNTER, TABLE, OR WORK STATION RESERVED FOR HANDICAPPED PERSONS SHALL BE 28 TO 34 INCHES ABOVE THE FINISHED FLOOR HEIGHT WITH A MINIMUM WORK SURFACE OF 36 INCHES LONG FOR SIDE APPROACH OR 30 INCHES LONG FOR FRONT APPROACH, KNEE AND TOE CLEARANCE SHALL BE PROVIDED UNDER THE WORKING SURFACES.
 - B. FLOOR SURFACES WITHIN MANEUVERING CLEARANCES SHALL HAVE A SLOPE NOT STEEPER THAN 1:48.
4. SALES AND SERVICE COUNTERS.
 - A. PARALLEL APPROACH:
 - 1) A PORTION OF THE COUNTER SURFACE 36 INCHES MINIMUM IN LENGTH AND 36 INCHES MAXIMUM IN HEIGHT ABOVE THE FLOOR SHALL BE PROVIDED.
 - 2) WHERE THE COUNTER SURFACE IS LESS THAN 36 INCHES IN LENGTH, THE ENTIRE COUNTER SURFACE SHALL BE 36 INCHES MAXIMUM IN HEIGHT ABOVE THE FLOOR.
 - 3) A CLEAR FLOOR SPACE POSITIONED FOR A PARALLEL APPROACH ADJACENT TO THE ACCESSIBLE COUNTER SHALL BE PROVIDED.
 - B. FORWARD APPROACH:
 - 1) A PORTION OF THE COUNTER SURFACE 30 INCHES MINIMUM IN LENGTH AND 36 INCHES MAXIMUM IN HEIGHT ABOVE THE FLOOR SHALL BE PROVIDED.
 - 2) A CLEAR FLOOR SPACE POSITIONED FOR A FORWARD APPROACH TO THE ACCESSIBLE COUNTER SHALL BE PROVIDED.
 - 3) KNEE AND TOE CLEARANCE SHALL BE PROVIDED UNDER THE ACCESSIBLE COUNTER.
5. SIGNAGE.
 - A. SIGNAGE IS REQUIRED AT THE FOLLOWING LOCATIONS:
 - 1) AT ALL NON-ACCESSIBLE ENTRANCES INDICATING THE LOCATION OF THE ACCESSIBLE ENTRANCES.
 - 2) SIGNS STATING "EXIT" SHALL BE PROVIDED ADJACENT TO EACH DOOR THAT LEADS TO A CORRIDOR, STAIRWELL, OR TO THE EXTERIOR OF THE BUILDING.
 - 3) SIGNAGE SHOWING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE LOCATED AT ALL RESTROOMS.
 - B. ALL SIGNS SHALL INCLUDE TACTILE SIGNAGE INCLUDING ANY OPTIONAL INTERIOR AND EXTERIOR SIGNAGE IDENTIFYING PERMANENT ROOMS AND SPACES.
 - C. TACTILE AND BRAILLE SIGNAGE SHALL BE LOCATED 48 INCHES MINIMUM TO 60 INCHES MAXIMUM ABOVE THE FLOOR OR GROUND SURFACE, MEASURED TO THE BASE LINE OF THE HIGHEST TACTILE LETTER.
 - D. TACTILE SIGNAGE SHALL BE LOCATED AT THE LATCH SIDE OF A DOORWAY, AT DOUBLE DOORS SIGNAGE SHALL BE PROVIDED ON THE SIDE OF ANY INACTIVE LEAF. IF BOTH DOORS ARE ACTIVE THE SIGNAGE SHALL BE PLACED TO THE RIGHT SIDE OF THE DOORWAY. IF SPACE IS NOT AVAILABLE FOR SIGNAGE IN THESE LOCATIONS, SIGNAGE SHALL BE LOCATED ON THE NEAREST ADJACENT WALL TO THE AREA SPECIFIED.
 - E. A MINIMUM 18 INCHES X 18 INCHES CLEAR FLOOR AREA CENTERED ON THE TACTILE SIGNAGE SHALL BE PROVIDED BEYOND THE ARC OF THE DOORWAY. SIGNAGE SHALL BE ALLOWED ON THE PUSH SIDE OF DOORS WITH CLOSERS WITHOUT HOLD OPEN DEVICES.
 - F. NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.
 - G. STREET ADDRESS SHALL BE POSTED IN NOT LESS THAN 4 INCH HIGH LETTERS/NUMBERS (6 INCH RECOMMENDED) WITH A MINIMUM STROKE DEPTH OF 0.5 INCH ON THE BUILDING.
6. THRESHOLDS.
 - A. ALL DOORS REQUIRED TO BE ACCESSIBLE, SHALL BE PROVIDED WITH LEVER HANDLES OR PUSH/PULL HARDWARE.
 - B. ALL DETAILS SHALL CONFORM TO A117.1
 - C. ACCESSIBLE ROUTES SHALL HAVE SLOPES OF LESS THAN 1:20. CROSS SLOPES SHALL NOT EXCEED 1:48.
 - D. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
 - E. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN ACCESSIBLE INTERIOR HINGED DOORS SHALL BE 5 LB/FT.
 - F. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED 34 INCHES MINIMUM TO 48 INCHES MAXIMUM ABOVE THE FINISHED FLOOR.
 - G. CHANGES IN LEVEL OF 1/4 INCH HEIGHT SHALL BE PERMITTED TO BE VERTICAL.
 - H. CHANGES IN LEVEL GREATER THAN 1/4 INCH IN HEIGHT AND NOT MORE THAN 1/2 INCH MAXIMUM HIGH SHALL BE BEVELED TO A SLOPE NO STEEPER THAN 1:2.
7. SURFACES.
 - A. FLOOR SURFACE SHALL BE STABLE, FIRM AND SLIP RESISTANT.
 - B. FLOOR SURFACES OF A CLEAR FLOOR SPACE SHALL HAVE A SLOPE NOT STEEPER THAN 1:48.
 - C. EXTERIOR DOOR AND WINDOW LOCATIONS ARE TAKEN FROM THE EXTERIOR FACE OF THE NAILERS AND ARE TO THE CENTER OF THE DOOR AND WINDOW UNITS. VERIFY ALL DOOR, WINDOW, SKYLIGHT AND SIDELIGHT LOCATIONS WITH THE OWNER.
 - D. INTERIOR COMPONENTS THAT ARE PROVIDED BY MORTON BUILDINGS, INC. OR MORTON BUILDINGS, INC. SUBCONTRACTORS SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - A. INTERIOR DIMENSIONS ARE TAKEN FROM THE INSIDE EDGE OF THE INTERIOR STRIPPING.
 - B. INTERIOR STUDWALL DIMENSIONS ARE TAKEN FROM THE CENTERLINE OF THE STUDWALL.
 - C. STUDWALLS ARE TO BE 2x4's @ 16" O.C. UNLESS SPECIFIED OTHERWISE.

OFFICE:
WESTFIELD, MASSACHUSETTS
JOB NO.
115-064715

LORI JERUSIK
CHICOPEE, MA

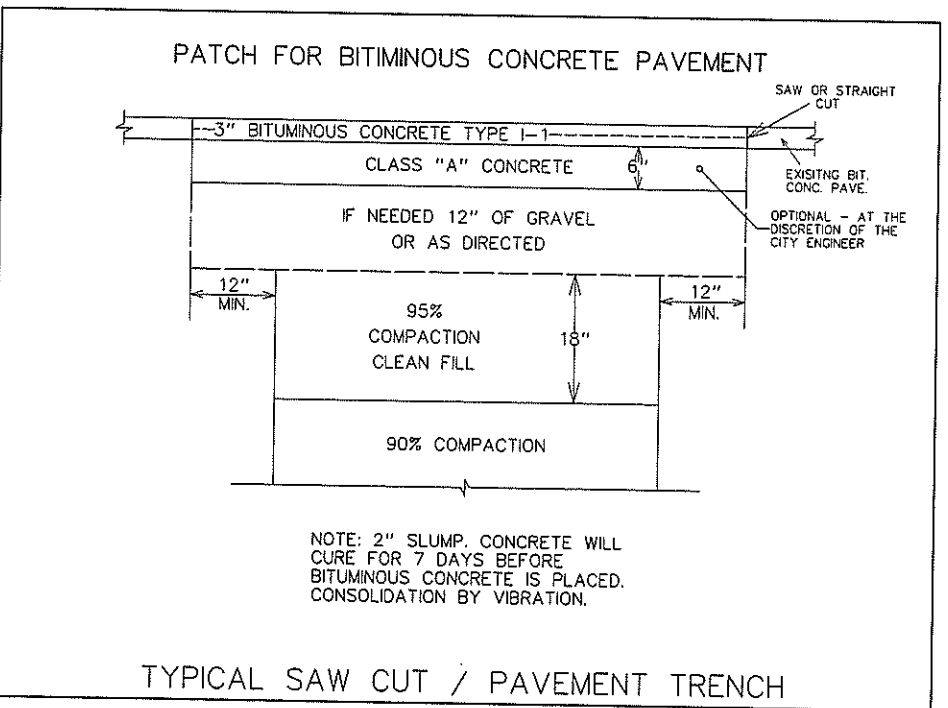
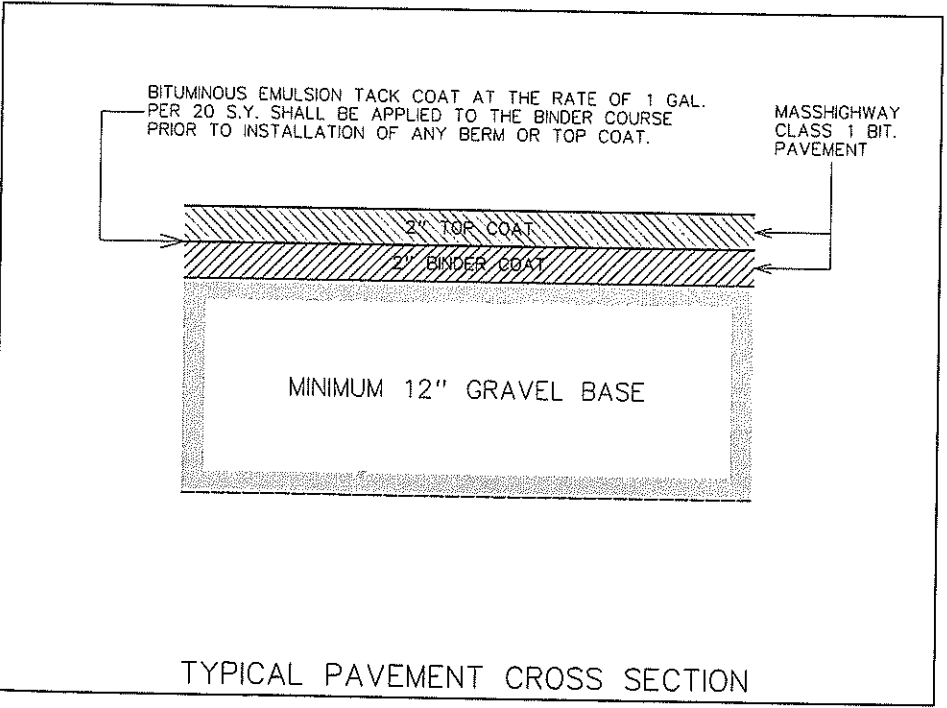
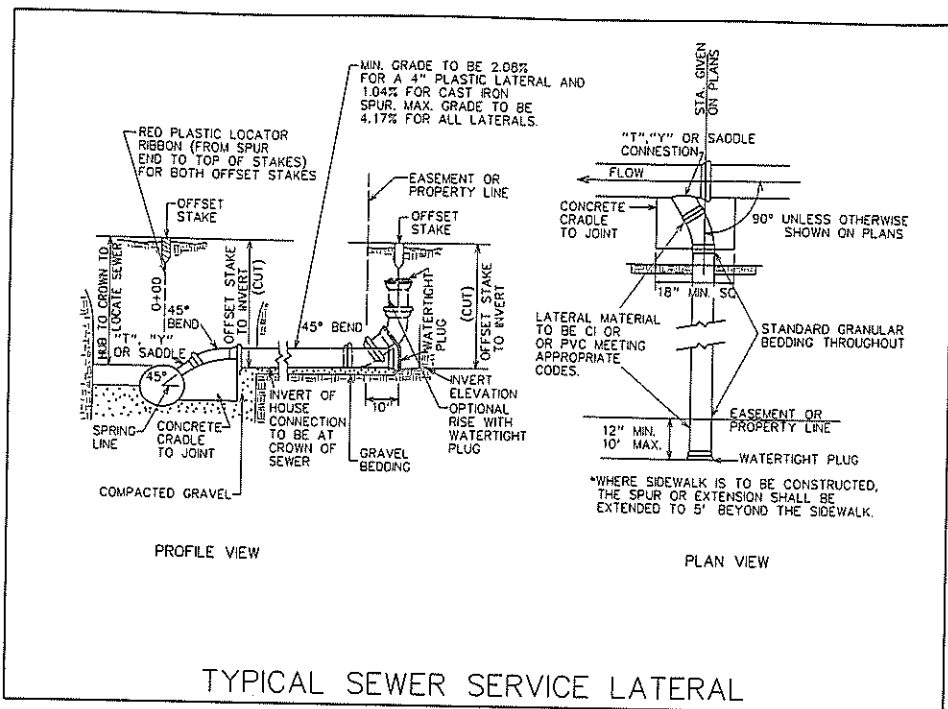
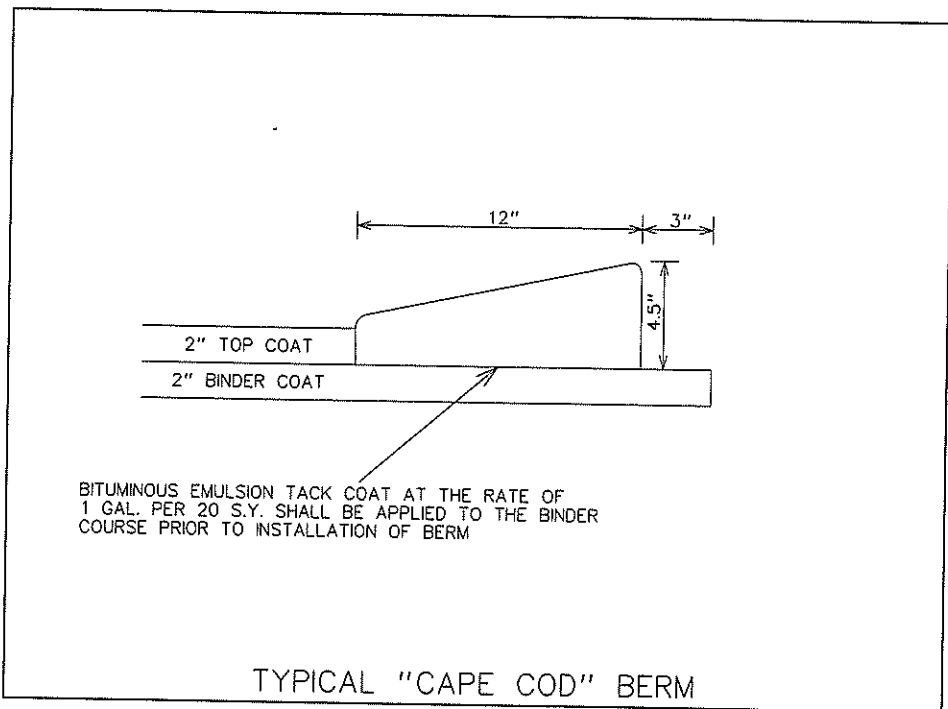
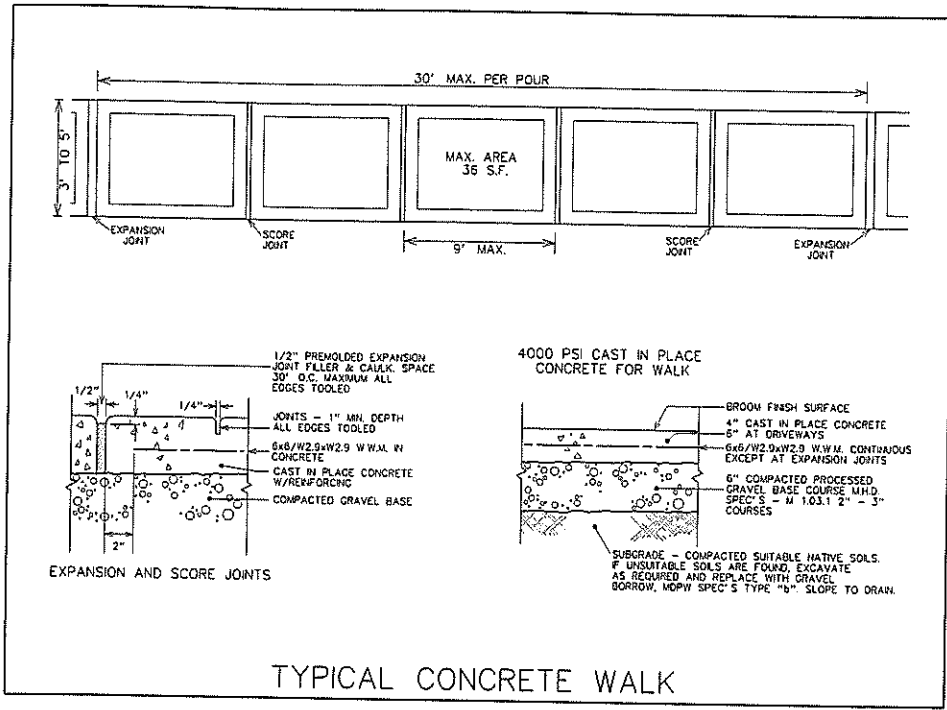
MA ALLIED DESIGN ARCHITECTURAL & ENGINEERING GROUP, P.C.
100 S. PERSHING P.O. BOX 110 MORTON, IL 61550
PHONE NUMBER: 909-263-4105

DRAWN BY:	POLHEMUS
DATE:	11/26/2016
CHECKED BY:	B. HUGHES
DATE:	11/30/2016
REVISED DATE:	---
REVISED DATE:	---
REVISED DATE:	---



SCALE: AS NOTED
SHEET NO.
A2 OF A4

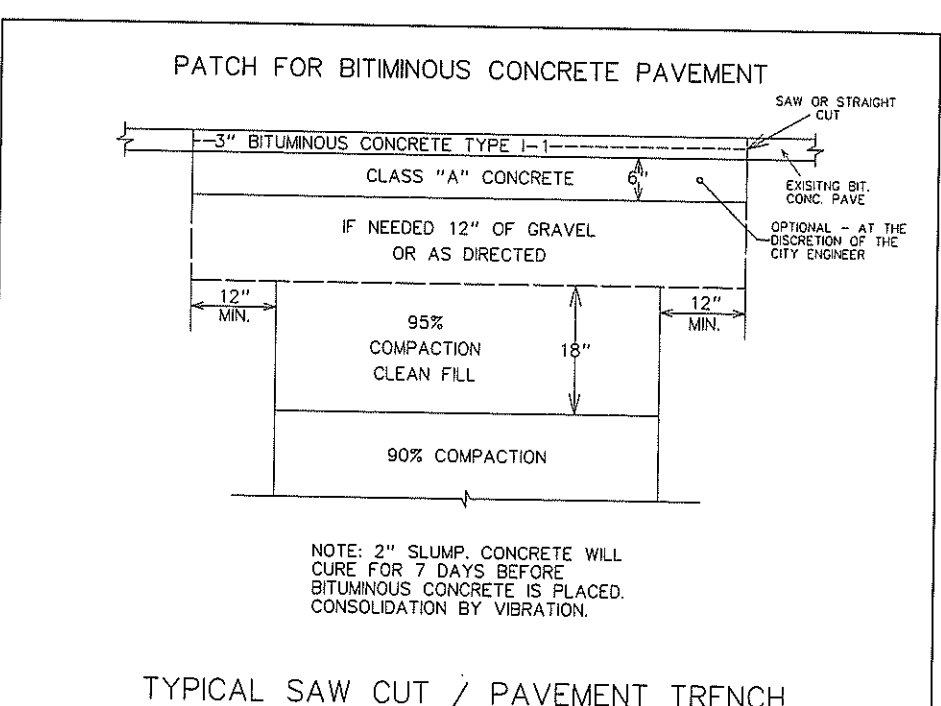
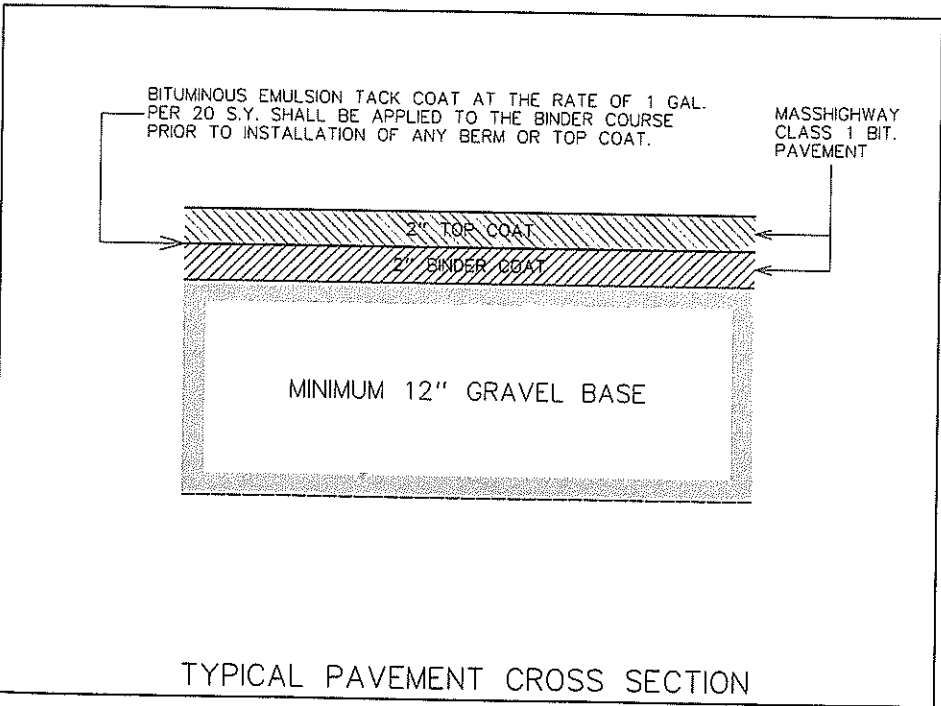
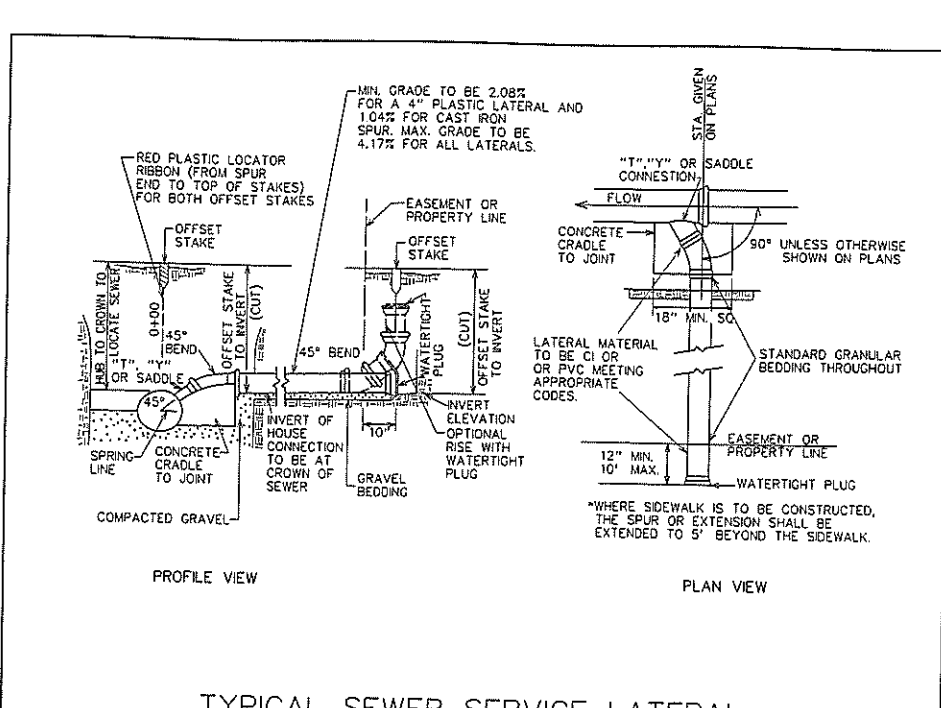
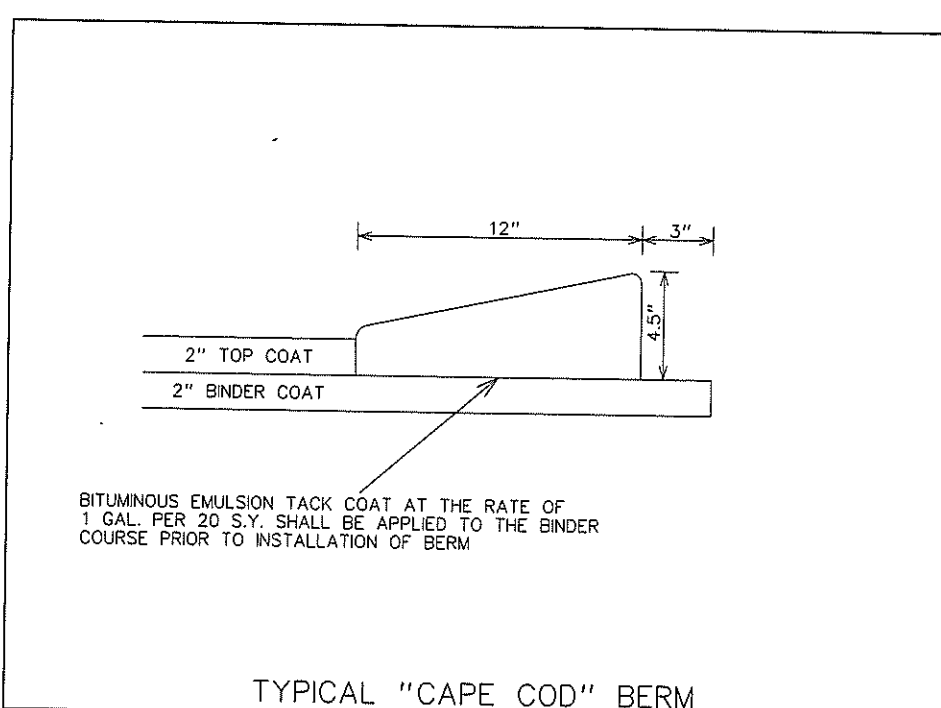
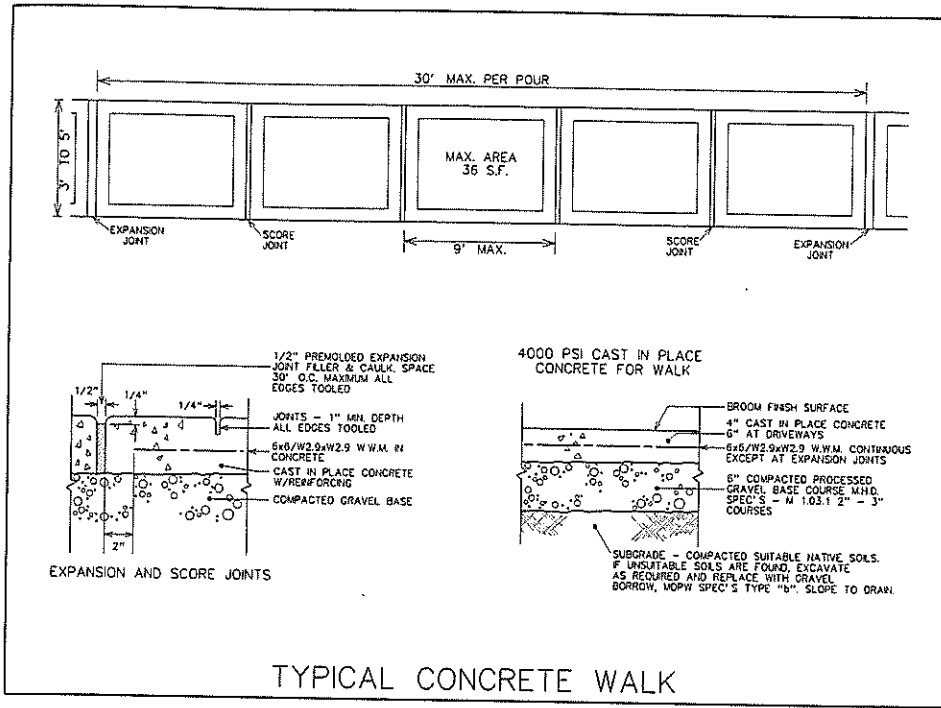
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- RESERVED -

DATE NOTE NOTE	NOTES / REVISIONS CONTACT DIG-SAFE PRIOR TO ANY EXCAVATIONS 1-888-344-7233 SUBJECT TO EASEMENTS, RESTRICTIONS AND R.O.W.'S OF RECORD, IF ANY AND APPLICABLE.	ZONING DIMENSIONAL REQUIREMENTS								OWNER OF RECORD - OAK RIVER DEVELOPMENT DEED 19937, PAGE 33. PLAN 337, PAGE 39. PARCEL ID: 0147-00005. 169 GROVE STREET CHICOPEE, MA 01020	APPLICANT - MUTT CUTS, LLC 63 1/2 MAIN STREET P.O. BOX 10 LORI A. JERUSIK PHONE (413) 594-8144	STORMWATER DESIGN BY - GARY P. WEINER, P.E. 53 MILL POND ROAD HAMPDEN, MA 01036 PHONE (413) 374-4467	PROPOSED SITE PLAN - GROVE STREET PLAN OF LAND IN THE CITY OF CHICOPEE, MASSACHUSETTS HAMPDEN COUNTY - PREPARED FOR MUTT CUTS, LLC	
	SCALE 1" = 20' 	ZONE BUS. A EXISTING PROP.	FRONTAGE 85' 85'	AREA (S.F.) 15,303 15,303	SETBACK FRONT 25' 66'	SIDE 25' 17'	REAR 25' 41'	DENSITY COVER 60% 56%	HEIGHT 40' <40'	MAX. STORES --- 1	CITY BY-LAWS SECTION 275-58 PARCEL C - GROVE ST. No - GROVE ST.	CHECKED BY APPROVED BY SCANNED	DATE: 10/08/2016 PLOT 11/22/2016 SCALE 1" = 20'	DRAWING No. 82-4364 S.2016-115.1

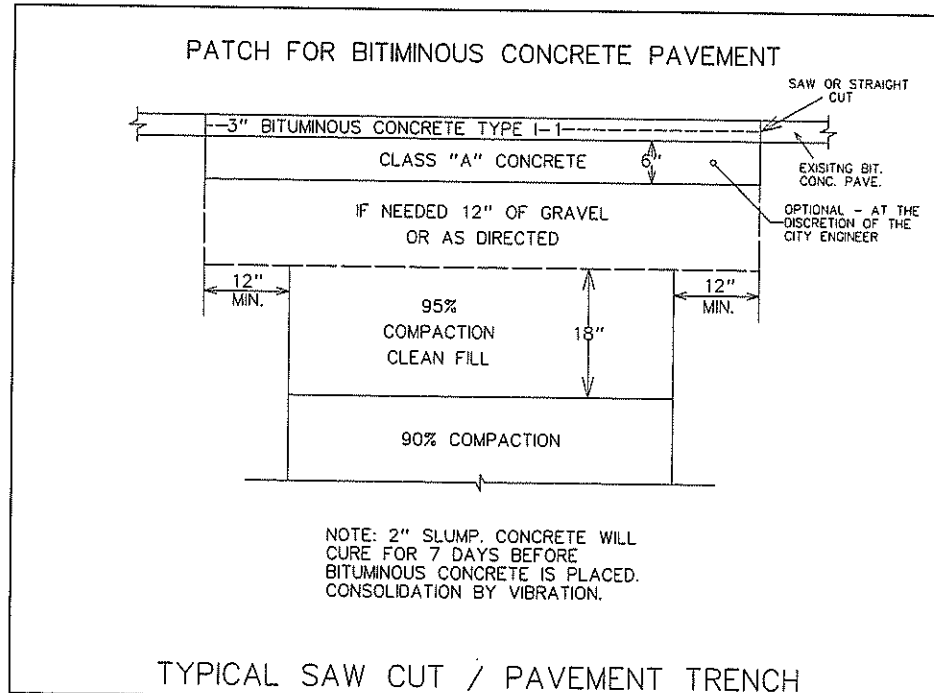
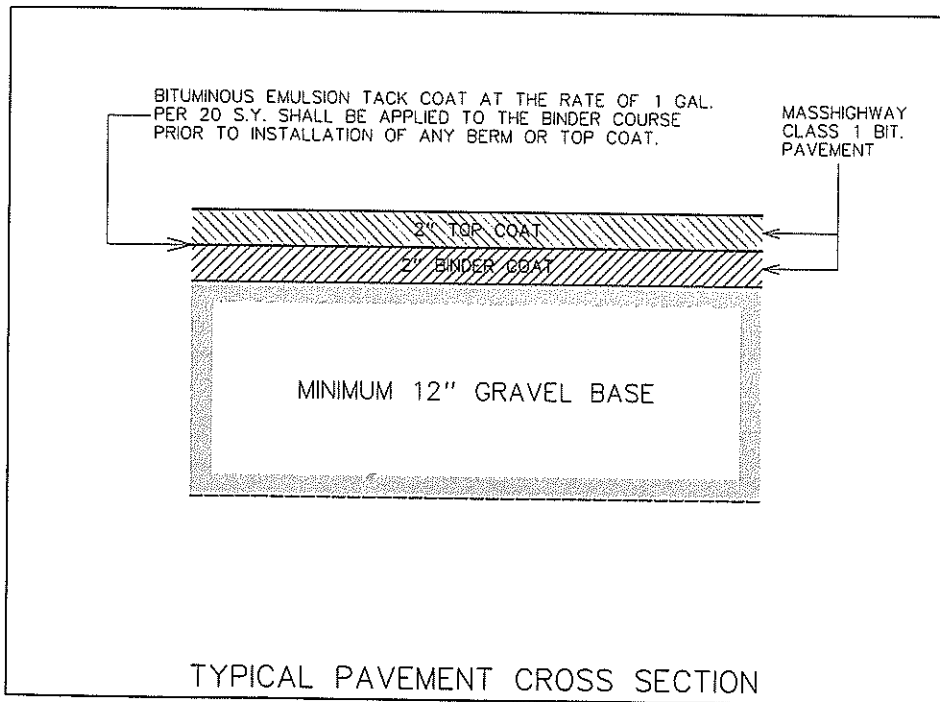
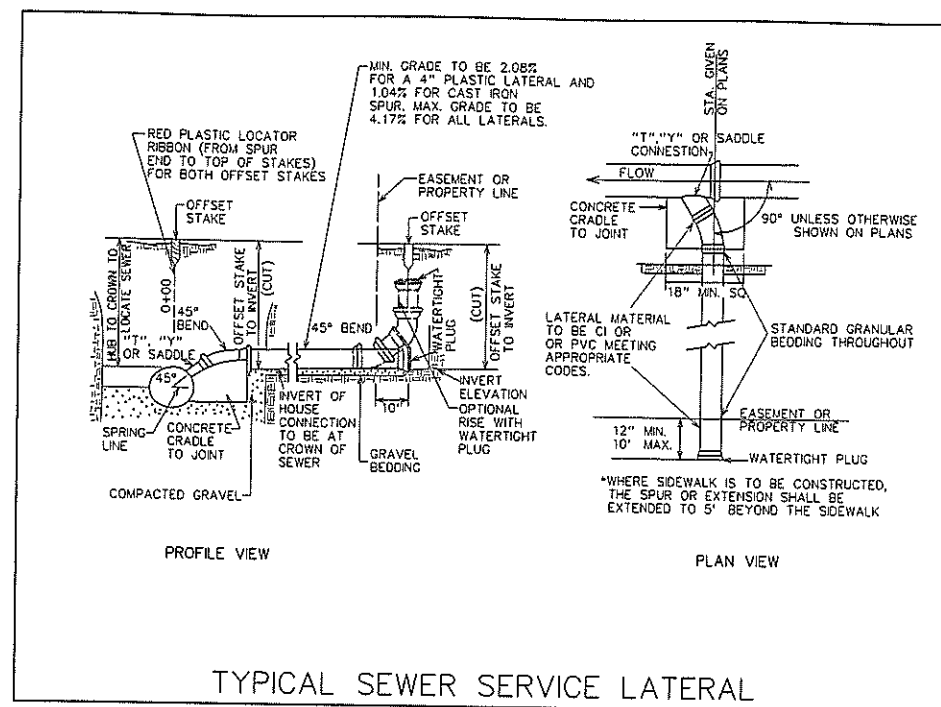
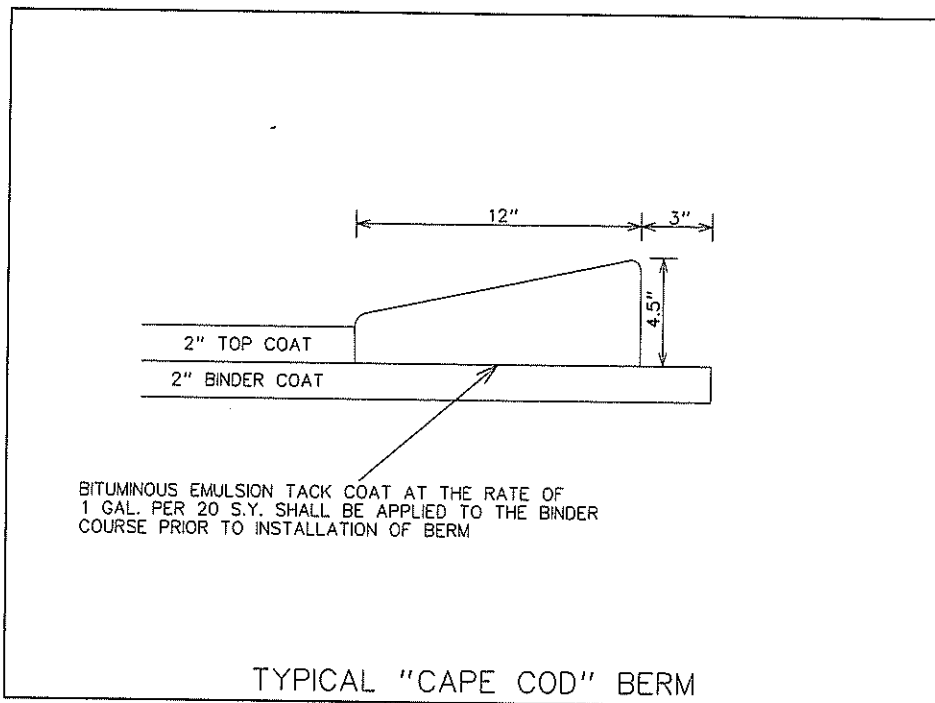
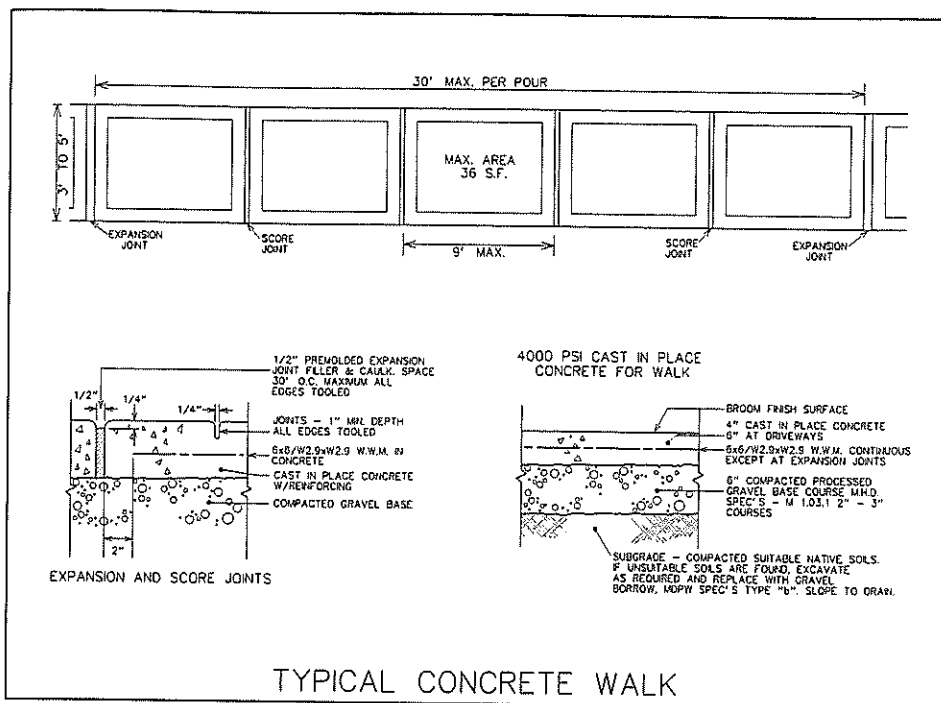
- DETAIL SHEET -



- RESERVED -

DATE	NOTES / REVISIONS		ZONING DIMENSIONAL REQUIREMENTS								OWNER OF RECORD - OAK RIVER DEVELOPMENT DEED 19937, PAGE 33. PLAN 337, PAGE 39. PARCEL ID: 0147-00005. 169 GROVE STREET CHICOPEE, MA 01020	APPLICANT - MUTT CUTS, LLC 63 1/2 MAIN STREET P.O. BOX 10 LORI A. JERUSIK PHONE (413) 594-8144	STORMWATER DESIGN BY - GARY P. WEINER, P.E. 53 MILL POND ROAD HAMPDEN, MA 01036 PHONE (413) 374-4467	PROPOSED SITE PLAN - GROVE STREET	
	NOTE	CONTACT DIG-SAFE PRIOR TO ANY EXCAVATIONS 1-888-344-7233	ZONE	FRONTAGE	AREA (S.F.)	SETBACK			DENSITY COVER	HEIGHT				MAX STORES	CITY BY-LAWS
NOTE	SUBJECT TO EASEMENTS, RESTRICTIONS AND R.O.W.'S OF RECORD, IF ANY AND APPLICABLE.	BUS. A	N.R.	N.R.	25'	15'	25'	60%	40'	---	SECTION 275-58		DURKEE, WHITE, TOWNE AND CHAPDELAINE CIVIL ENGINEERS AND LAND SURVEYORS 356 FRONT STREET CHICOPEE, MASSACHUSETTS - 01013 PHONE (413) 592-6164		
		EXISTING	85'	15,303	- VACANT LOT -	- VACANT LOT -	- VACANT LOT -	PARCEL C - GROVE ST.			No - GROVE ST			DRAWN BY EJC CHECKED BY APPROVED BY EJC SCANNED	DATE: 10/08/2016 PLOT 11/22/2016 SCALE 1" = 20'
		PROP.	85'	15,303	66'	17'	41'	56%	<40'	1		INDEX CONTINUED - SHEET 5 = DETAILS			
		NOTE - ALL ZONING DIMENSIONAL REQUIREMENTS SHOWN ON THIS PLAN SHALL BE VERIFIED & APPROVED BY THE LOCAL BUILDING DEPT. OR BY THE LOCAL ZONING ENFORCEMENT OFFICE N.R. = NO REQUIREMENT TOTAL IMPERVIOUS PROPOSED = 8,268 S.F.													
		SCALE 1" = 20'													
		0' 10' 20' 30' 40' 60' 80'													

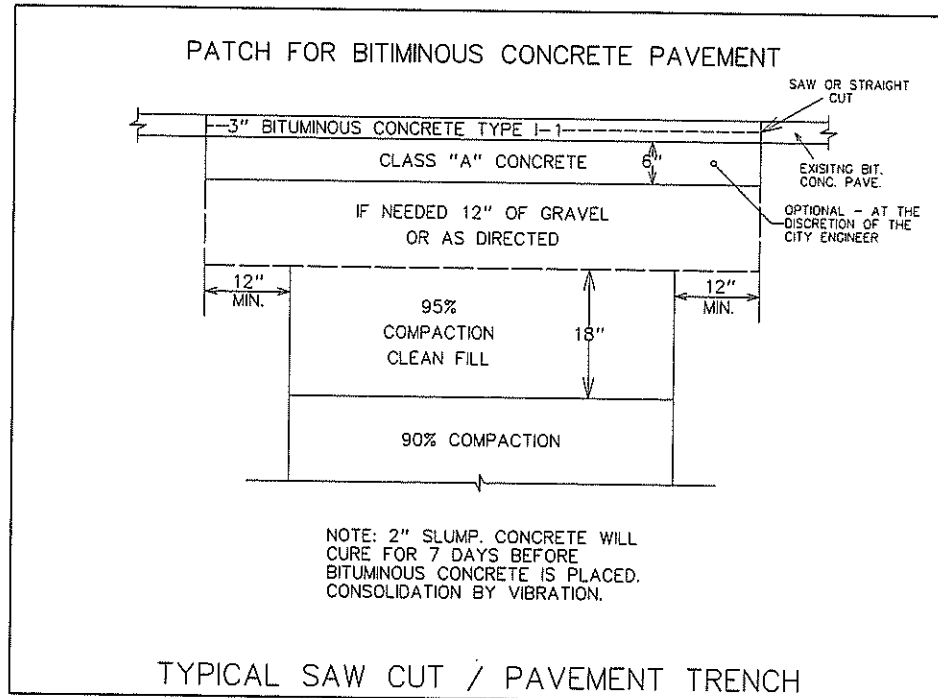
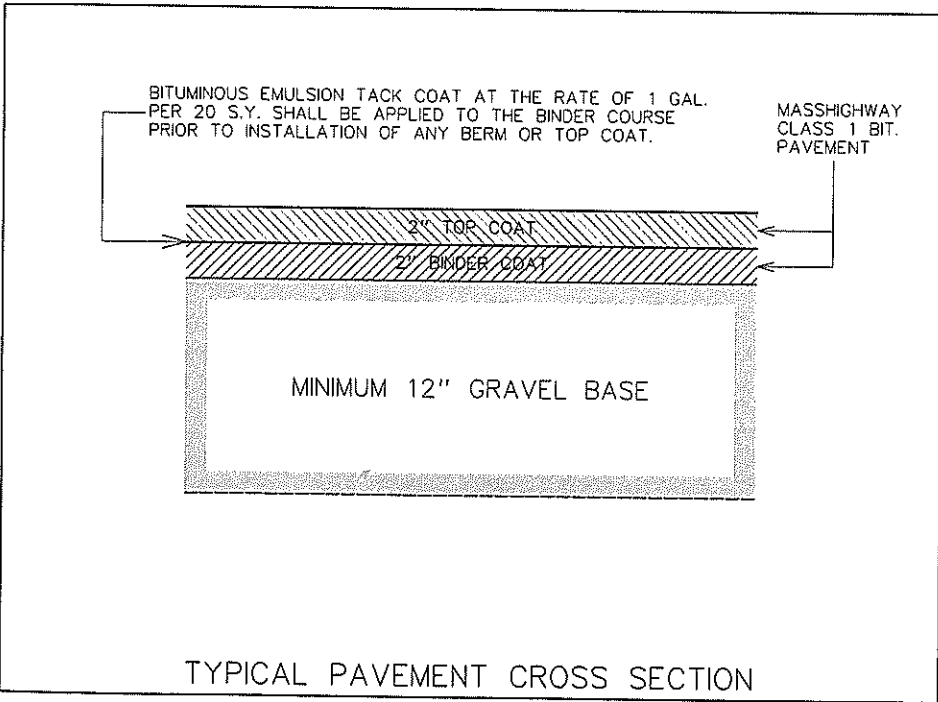
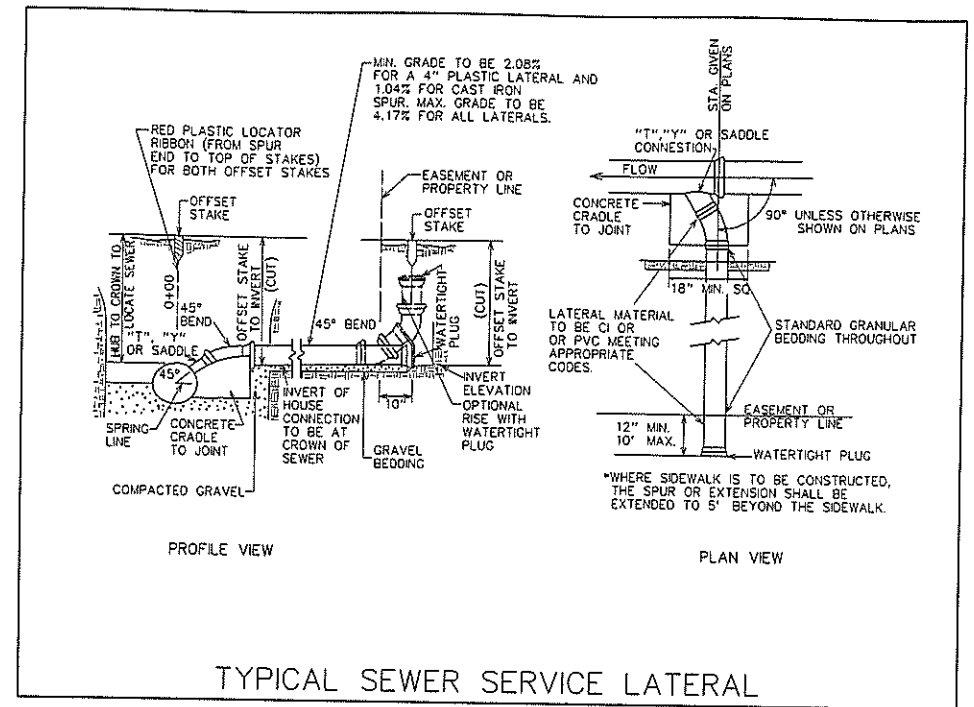
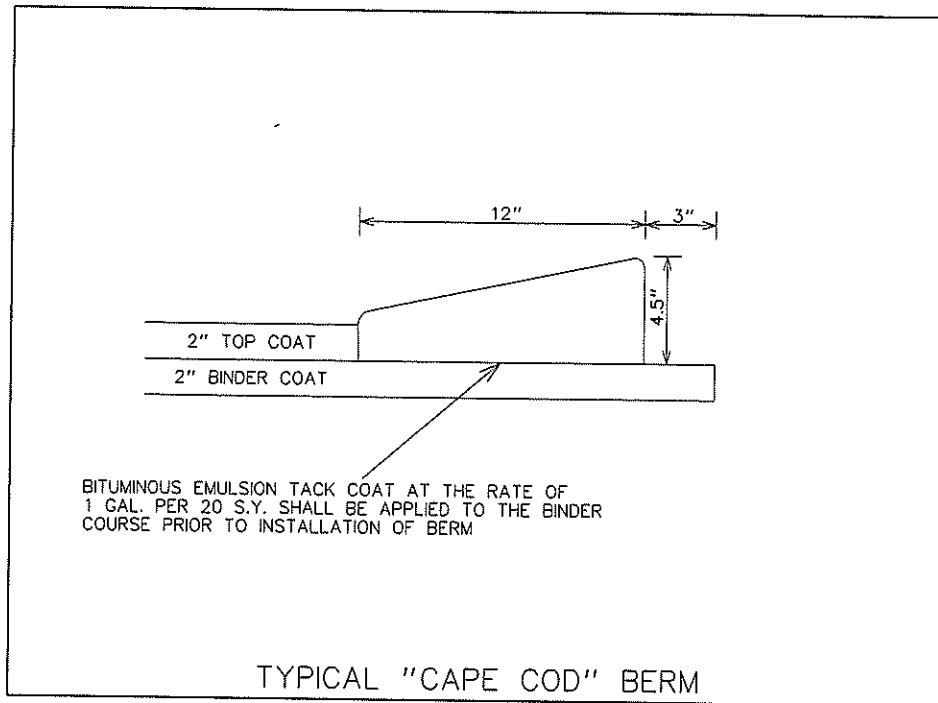
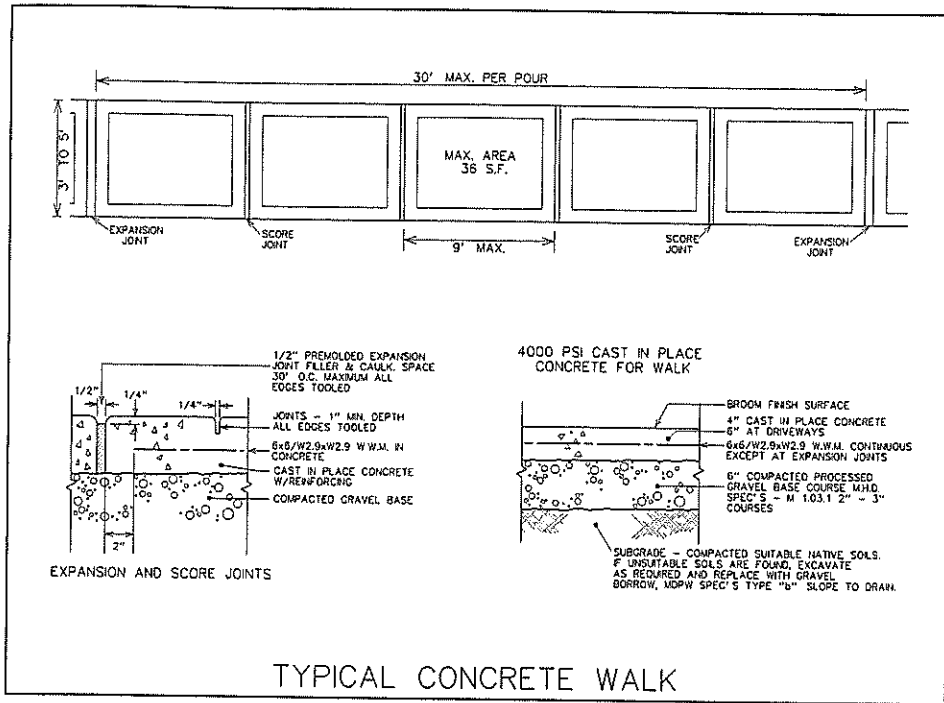
- DETAIL SHEET -



- RESERVED -

DATE	NOTES / REVISIONS	ZONING DIMENSIONAL REQUIREMENTS							OWNER OF RECORD -	APPLICANT -	STORMWATER DESIGN BY -	PROPOSED SITE PLAN - GROVE STREET					
	NOTE	CONTACT DIG-SAFE PRIOR TO ANY EXCAVATIONS 1-888-344-7233	ZONE	FRONTAGE	AREA (S.F.)	FRONT SETBACK	SIDE SETBACK	REAR SETBACK	DENSITY COVER	HEIGHT	MAX # STORES	CITY BY-LAWS	OAK RIVER DEVELOPMENT DEED 19937, PAGE 33. PLAN 337, PAGE 39. PARCEL ID: 0147-00005. 169 GROVE STREET CHICOPEE, MA 01020	MUTT CUTS, LLC 63 1/2 MAIN STREET P.O. BOX 10 LORI A. JERUSIK PHONE (413) 594-8144	GARY P. WEINER, P.E. 53 MILL POND ROAD HAMPDEN, MA 01036 PHONE (413) 374-4467	INDEXED	
NOTE	SUBJECT TO EASEMENTS, RESTRICTIONS AND R.O.W.'S OF RECORD, IF ANY AND APPLICABLE.	BUS. A	N.R.	N.R.	25'	15'	25'	60%	40'	----	SECTION 275-58				PLAN OF LAND IN THE CITY OF CHICOPEE, MASSACHUSETTS HAMPDEN COUNTY - PREPARED FOR MUTT CUTS, LLC		
		EXISTING	85'	15,303	- VACANT LOT -	- VACANT LOT -	- VACANT LOT -				PARCEL C - GROVE ST.				DURKEE, WHITE, TOWNE AND CHAPDELAINE CIVIL ENGINEERS AND LAND SURVEYORS 356 FRONT STREET CHICOPEE, MASSACHUSETTS - 01013 PHONE (413) 592-5164		
		PROP.	85'	15,303	66'	17'	41'	56%	<40'	1	No - GROVE ST	CONTRACTOR -	INDEX -	INDEX CONTINUED -	DRAWN BY EJC CHECKED BY EJC APPROVED BY EJC SCANNED		
		NOTE - ALL ZONING DIMENSIONAL REQUIREMENTS SHOWN ON THIS PLAN SHALL BE VERIFIED & APPROVED BY THE LOCAL BUILDING DEPT. OR BY THE LOCAL ZONING ENFORCEMENT OFFICE. N.R. = NO REQUIREMENT. TOTAL IMPERVIOUS PROPOSED = 8,268 S.F.										TO BE DETERMINED.	SHEET 1 = COVER SHEET 2 = NOTES SHEET 3 = EXISTING SHEET 4 = PROPOSED	SHEET 5 = DETAILS	DATE: 10/08/2016 DRAWING No. 82-4364 PLOT 11/22/2016 SCALE 1" = 20' S.2016-115.1		
SCALE 1" = 20'													SHEET 5				

- DETAIL SHEET -



- RESERVED -

DATE	NOTES / REVISIONS
NOTE	CONTACT DIG-SAFE PRIOR TO ANY EXCAVATIONS 1-888-344-7233
NOTE	SUBJECT TO EASEMENTS, RESTRICTIONS AND R.O.W.'S OF RECORD, IF ANY AND APPLICABLE.

SCALE 1" = 20'

ZONING DIMENSIONAL REQUIREMENTS									
ZONE	FRONTAGE	AREA (S.F.)	SETBACK			DEVELOPMENT COVER	HEIGHT	MAX. STORES	CITY BY-LAWS
			FRONT	SIDE	REAR				
BUS. A	N.R.	N.R.	25'	15'	25'	60%	40'	---	SECTION 275-58
EXISTING	85'	15,303	- VACANT LOT -			- VACANT LOT -		---	PARCEL C - GROVE ST.
PROP.	85'	15,303	66'	17'	41'	56%	<40'	1	No -- GROVE ST

NOTE - ALL ZONING DIMENSIONAL REQUIREMENTS SHOWN ON THIS PLAN SHALL BE VERIFIED & APPROVED BY THE LOCAL BUILDING DEPT. OR BY THE LOCAL ZONING ENFORCEMENT OFFICE

N.R. = NO REQUIREMENT

TOTAL IMPERVIOUS PROPOSED = 8,268 S.F.

OWNER OF RECORD -
OAK RIVER DEVELOPMENT
DEED 19937, PAGE 33.
PLAN 337, PAGE 39.
PARCEL ID: 0147-00005.
169 GROVE STREET
CHICOPEE, MA 01020

APPLICANT -
MUTT CUTS, LLC
63 1/2 MAIN STREET
P.O. BOX 10
LORI A. JERUSIK
PHONE (413) 594-8144

STORMWATER DESIGN BY -
GARY P. WEINER, P.E.
53 MILL POND ROAD
HAMPDEN, MA 01036
PHONE (413) 374-4467

CONTRACTOR -
TO BE DETERMINED.

INDEX -
SHEET 1 = COVER
SHEET 2 = NOTES
SHEET 3 = EXISTING
SHEET 4 = PROPOSED

INDEX CONTINUED -
SHEET 5 = DETAILS

PROPOSED SITE PLAN - GROVE STREET

PLAN OF LAND IN THE CITY OF CHICOPEE, MASSACHUSETTS
HAMPDEN COUNTY - PREPARED FOR
MUTT CUTS, LLC

DURKEE, WHITE, TOWNE AND CHAPDELAINÉ
CIVIL ENGINEERS AND LAND SURVEYORS
356 FRONT STREET
CHICOPEE, MASSACHUSETTS - 01013
PHONE (413) 592-5164

EDWARD J. WEINER
REGISTERED PROFESSIONAL LAND SURVEYOR
3878A

DRAWN BY EJC
CHECKED BY EJC
APPROVED BY EJC
SCANNED

DATE: 10/08/2016
PLOT: 11/22/2016
SCALE: 1" = 20'

DRAWING No.
82-4364
S.2016-115.1

SHEET 5

- DETAIL SHEET -

StormTech Construction Guide

REQUIRED MATERIALS AND EQUIPMENT LIST

- Acceptable fill materials per Table 1
- StormTech chambers
- StormTech, chambers
- StormTech, manifolds and fittings
- StormTech solid end caps and pre-cast end caps
- StormTech, chambers
- StormTech, manifolds and fittings

IMPORTANT NOTES:

- This installation guide provides the minimum requirements for proper installation of chambers. Non-adherence to this guide may result in damage to chambers during installation. Replacement of damaged chambers during or after backfilling is costly and very time consuming. It is recommended that all installers are familiar with this guide, and that the contractor inspects the chambers for distortion, damage and joint integrity as work progresses.
- Use of a dozer to push embankment stone between the rows of chambers may cause damage to chambers and is not an acceptable backfill method. Any chambers damaged by using the "dump and push" method are not covered under the StormTech standard warranty.
- Care should be taken in the handling of chambers and end caps. Avoid dropping, prying or excessive force on chambers during removal from pallet and initial placement.

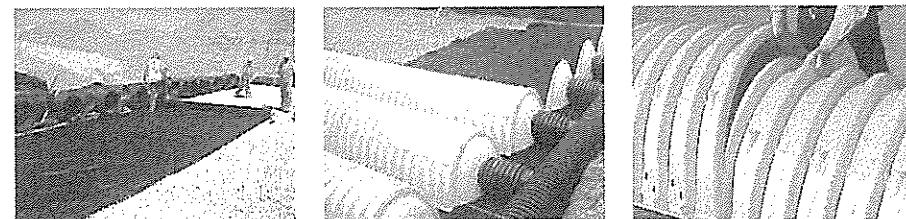
Requirements for System Installation



Excavate bed and prepare subgrade per engineer's plans. Place non-woven geotextile over prepared bed and up excavation walls. Install underdrains if required. Place clean, crushed angular stone foundation @ (150 mm) min. Contractor achieve a flat surface.

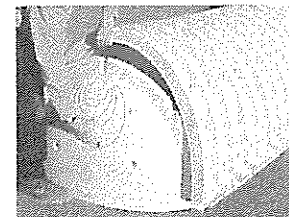
Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

Manifold, Inlet Pipes and Chamber Assembly



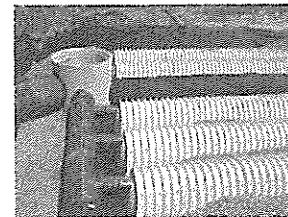
Install manifolds and lay out woven scour geotextile at inlet rows (min. 12.5 ft (3.8 m)) at each inlet end cap. Place a continuous piece (no seams, double layer) along entire length of Inlet Rows. Align the first chamber and end cap of each row with inlet pipes. Contractor may choose to position stone placement around end chambers and leave ends of rows open for easy inspection of chambers during the backfill process. Construct the chamber bed by overlapping the chambers lengthwise in rows. Attach chambers by overlapping the end corrugation of one chamber on to the end corrugation of the last chamber in the row to ensure that the chamber placement does not exceed the reach of the construction equipment used to place the stone.

Aligning the End Caps



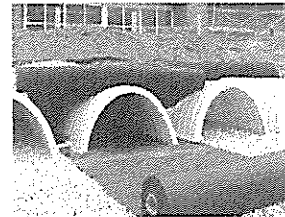
Lift the end of the chamber a few inches off the ground. With the curved face of the end cap facing outward, place the end cap into the hole and reposition.

Pre-Installation End Caps



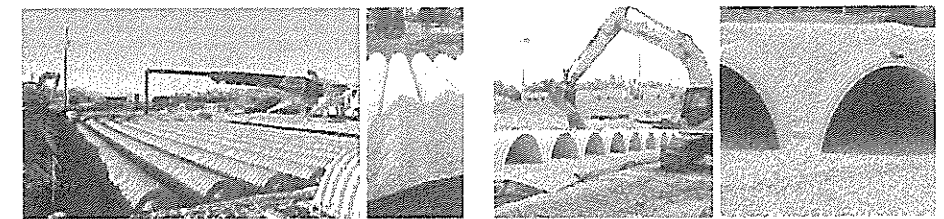
24" (600 mm) sockets for the manholes that can fit into a 24" (600 mm) end cap and must be drilled with a 24" (600 mm) pipe stub. SC-310 chambers with a 12" (300 mm) inlet pipe must use a pre-fabricated end cap with a 12" (300 mm) pipe stub.

Initial Bed



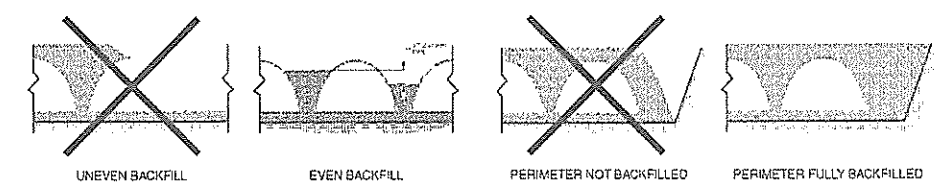
Drain a strip of ADS non-woven geotextile over the row of chambers that occurred over DO-700. This is the same type of non-woven geotextile used as a separator layer between the angular stone of the StormTech system.

Initial Backfilling of Chambers - Embankment Stone



Initial embedment shall be applied along the centerline of the chamber evenly anchoring the lower portion of the chamber. This is best accomplished with a stone conveyor or excavator reaching along the row. No equipment shall be operated on the bed at this stage of the installation. Dump trucks shall not dump stone directly on to the bed. Dozers or loaders are not allowed on the bed at this time.

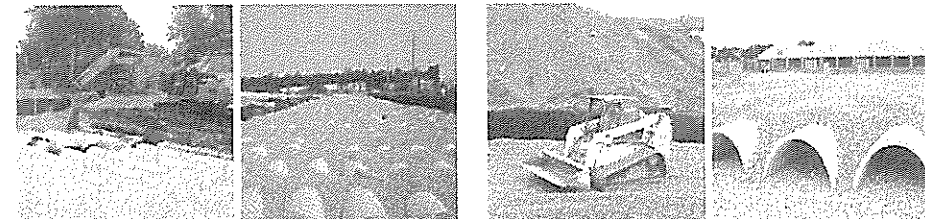
Backfill of Chambers - Embankment Stone



Backfill chambers evenly. Stone count height should never differ by more than 12" (300 mm) between adjacent chamber rows or between chamber rows and perimeter. Perimeter stone must be brought up evenly with chamber rows. Perimeter must be fully backfilled with stone extended horizontally to the maximum width and perimeter.

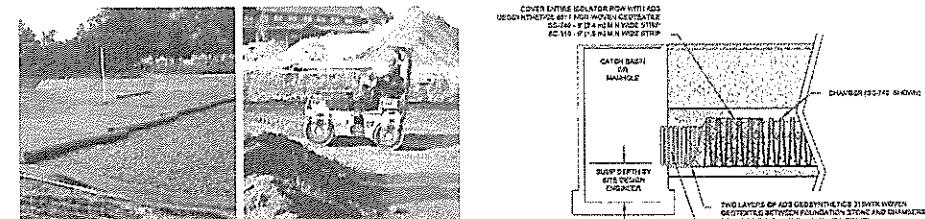
Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

Final Bed Construction - Embankment Stone and Cover Stone



Continue evenly backfilling between rows and around perimeter until embankment stone reaches top of chambers. Perimeter stone must extend horizontally to the excavation wall for both straight and sloped excavations. Only after chambers have been backfilled to top of chamber and with a minimum 6" (150 mm) of cover stone on top of chambers can small dozers be used over the chambers for backfilling remaining cover stone. Small dozers and end loaders may be used to finish grading stone backfill in accordance with ground pressure limits in Table 2. They must push material parallel to the rows only. Never push perpendicular to rows. StormTech recommends that the contractor inspect chambers before placing final backfill. Any chambers damaged by construction shall be removed & replaced.

Final Bed Construction - Embankment Stone and Cover Stone



Final non-woven geotextile over stone. Overlay a final woven 24" (600 mm) min. wide slopes over. Compact each lift of backfill as specified in the site design engineer's drawings. Place travel parallel with rows. Final non-woven geotextile over stone. Overlay a final woven 24" (600 mm) min. wide slopes over. Compact each lift of backfill as specified in the site design engineer's drawings. Place travel parallel with rows.

Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

Table 1 - Acceptable Fill Materials

Material	ASTM	Notes
Final Fill (1) Material	ASTM 2476	Acceptable materials when used in accordance with this guide. Check local regulations for any restrictions.
Initial Fill (2) Material	ASTM 2476, A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45, A46, A47, A48, A49, A50, A51, A52, A53, A54, A55, A56, A57, A58, A59, A60, A61, A62, A63, A64, A65, A66, A67, A68, A69, A70, A71, A72, A73, A74, A75, A76, A77, A78, A79, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, A90, A91, A92, A93, A94, A95, A96, A97, A98, A99, A100	Initial fill material must be placed in layers. Each layer shall be compacted to a minimum of 90% relative compaction. The final fill material shall be placed in layers. Each layer shall be compacted to a minimum of 90% relative compaction.
Embankment Stone (3)	ASTM 2476	Stone used in embankment shall be placed in layers. Each layer shall be compacted to a minimum of 90% relative compaction.
Foundation Stone (4)	ASTM 2476	Foundation stones shall be placed in layers. Each layer shall be compacted to a minimum of 90% relative compaction.

Figure 1 - Inspection Port Detail

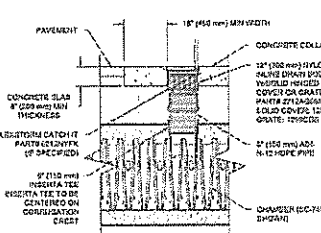
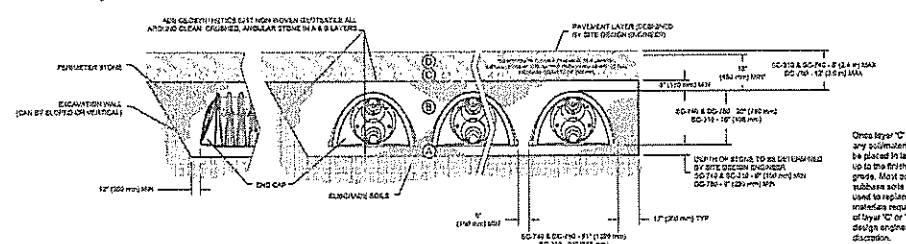


Figure 2 - Fill Material Locations



Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

Table 2 - Maximum Allowable Construction Vehicle Loads

Material	Vehicle Type	Weight (lb)	Width (ft)	Length (ft)	Notes
Final Fill Material	30' (9.1m) Concrete	23,000 (10,427)	16.00 (4.88)	12.00 (3.66)	24,000 (10,886)
	24' (7.3m) Concrete	30,900 (14,014)	16.00 (4.88)	12.00 (3.66)	24,000 (10,886)
Initial Fill Material	24' (7.3m) Concrete	22,900 (10,382)	16.00 (4.88)	12.00 (3.66)	24,000 (10,886)
	18' (5.5m) Concrete	22,900 (10,382)	16.00 (4.88)	12.00 (3.66)	24,000 (10,886)
Embankment Stone	12' (3.7m)	12,400 (5,611)	16.00 (4.88)	12.00 (3.66)	24,000 (10,886)
	6' (1.8m)	6,200 (2,806)	16.00 (4.88)	12.00 (3.66)	24,000 (10,886)

Table 3 - Placement Methods and Descriptions

Material	Placement Method	Description
Final Fill Material	Final Fill	A variety of placement methods may be used. All construction methods must meet the maximum limits in Table 2.
Initial Fill Material	Initial Fill	Excavator equipped with bed room spreader. Stone may be placed over chambers. Small dozer allowed.
Embankment Stone	Embankment Stone	No equipment allowed on top of chamber. Stone may be placed over chambers. Small dozer allowed.
Foundation Stone	Foundation Stone	No equipment allowed on top of chamber. Stone may be placed over chambers. Small dozer allowed.

Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

	DATE	NOTES / REVISIONS	ZONING DIMENSIONAL REQUIREMENTS					OWNER OF RECORD -	APPLICANT -	STORMWATER DESIGN BY -	PROPOSED SITE PLAN - GROVE STREET					
	NOTE	CONTACT DIG-SAFE PRIOR TO ANY EXCAVATIONS 1-888-344-7233	ZONE	FRONTAGE	AREA (S.F.)	FRONT SETBACK	REAR SETBACK	DENSITY COVERAGE	HEIGHT	MAX STORES	CITY BY-LAWS	OAK RIVER DEVELOPMENT DEED 19937, PAGE 33. PLAN 337, PAGE 39. PARCEL ID: 0147-00005. 169 GROVE STREET CHICOPEE, MA 01020	MUTT CUTS, LLC 63 1/2 MAIN STREET P.O. BOX 10 LORI A. JERUSIK PHONE (413) 594-8144	GARY P. WEINER, P.E. 53 MILL POND ROAD HAMPDEN, MA 01036 PHONE (413) 374-4467	PLAN OF LAND IN THE CITY OF CHICOPEE, MASSACHUSETTS HAMPDEN COUNTY - PREPARED FOR MUTT CUTS, LLC	
NOTE	SUBJECT TO EASEMENTS, RESTRICTIONS AND R.O.W.'S OF RECORD, IF ANY AND APPLICABLE.	EXISTING	85'	15,303	-	VACANT LOT	-	VACANT LOT	-	PARCEL C - GROVE ST.	DURKEE, WHITE, TOWNE AND CHAPDELAIN CIVIL ENGINEERS AND LAND SURVEYORS 356 FRONT STREET CHICOPEE, MASSACHUSETTS - 01013 PHONE (413) 592-5164					
		PROP.	85'	15,303	66'	17'	41'	58%	<40'	1				No - GROVE ST.		
			NOTE - ALL ZONING DIMENSIONAL REQUIREMENTS SHOWN ON THIS PLAN SHALL BE VERIFIED & APPROVED BY THE LOCAL BUILDING DEPT. OR BY THE LOCAL ZONING ENFORCEMENT OFFICE. N.R. = NO REQUIREMENT TOTAL IMPERVIOUS PROPOSED = 8,266 S.F.								DRAWN BY EJC CHECKED BY EJC APPROVED BY EJC SCANNED			DATE: 10/08/2016 PLOT 11/22/2016 SCALE 1" = 20'		
											DRAWING No. 82-4364 5.2016-115.1					

- DETAIL SHEET -

StormTech Construction Guide

StormTech
Stormwater Management Systems

A Division of **HERBERT WILSON DS**

REQUIRED MATERIALS AND EQUIPMENT LIST

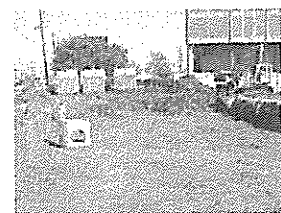
- Acceptable fill materials per Table 1
- Weaken and non-woven geotextile

- StormTech solid end caps and pre-cast end caps
- StormTech chambers
- StormTech manholes and fittings

IMPORTANT NOTES:

- This installation guide provides the minimum requirements for proper installation of chambers. Non-adherence to this guide may result in damage to chambers during installation. Replacement of damaged chambers during or after backfilling is costly and very time consuming. It is recommended that all installers are familiar with this guide, and that the contractor inspects the chambers for distortion, damage and joint integrity as work progresses.
- Use of a dozer to push embedment stone between the rows of chambers may cause damage to chambers and is not an acceptable backfill method. Any chambers damaged by using the "dump and push" method are not covered under the StormTech standard warranty.
- Care should be taken in the handling of chambers and end caps. Avoid dropping, prying or excessive force on chambers during removal from pallet and initial placement.

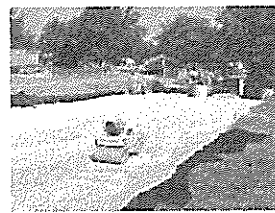
Requirements for System Installation



Excavate bed and prepare subsurface per engineer's plans



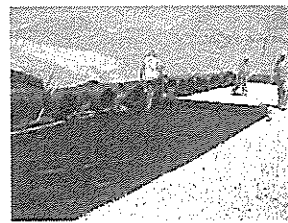
Place non-woven geotextile over prepared soil and up excavation walls. Install underdrains if required.



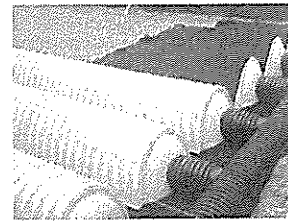
Place clean washed angular stone foundation (150 mesh) over. Compact to achieve a flat surface.

Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

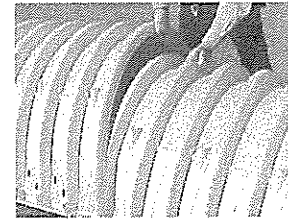
Method of Storage of Chambers - Equipment System



Install manholes and lay out woven scour geotextile in inlet rows (min. 12' ft (3.6 m)) at each inlet and cap. Place a continuous piece (no seams, 4-lb/lb layer) along entire length of inlet rows.

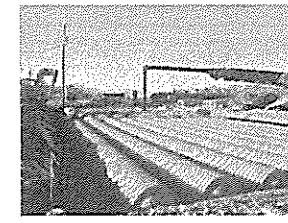


Align the first chamber and end cap of each row with inlet pipes. Contractor may choose to cast the stone placement around end chambers and leave ends of rows open for easy inspection of chambers during the backfill process.

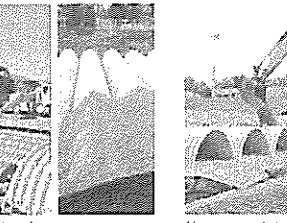


Construct the chamber bed by overlapping the chambers lengthwise in rows. Attach chambers by overlapping the end corrugation of one chamber on to the end corrugation of the last chamber in the row. Be sure that the chamber placement does not exceed the reach of the construction equipment used to place the stone.

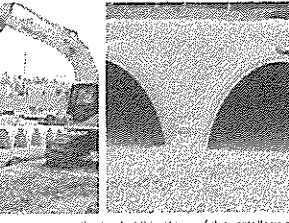
Method of Storage of Chambers - Equipment System



Initial embedment shall be spotted along the centerline of the chamber evenly anchoring the lower portion of the chamber. This is best accomplished with a stone conveyor or excavator reaching along the row.



No equipment shall be operated on the bed at this stage of the installation. Excavators must be located off the bed. Dump trucks shall not dump stone directly on to the bed. Dozers or loaders are not allowed on the bed at this time.

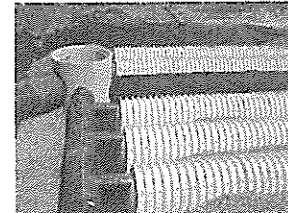


Attaching the End Cap



Lift the end of the chamber 3" from the ground. With the curved face of the end cap facing outward, place the end cap into the chamber and compress.

Perforated End Caps



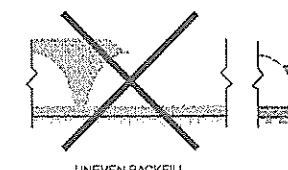
24" (600 mm) ends are the maximum size that can fit into a SC-748(D)-780 end cap and must be fabricated with a 12" (300 mm) pipe stub. SC-310 chambers with a 12" (300 mm) inlet pipe must use a prefabricated end cap with a 12" (300 mm) pipe stub.

Inspection Ports

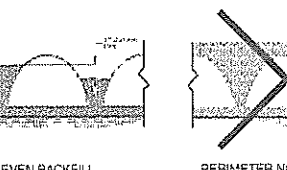


Place a strip of ADS non-woven geotextile over the row of chambers (not required over DC-780). This is the same type of non-woven geotextile used as a separation layer around the angular stone of the StormTech system.

Backfill of Chambers - Equipment System



UNEVEN BACKFILL PERIMETER NOT BACKFILLED



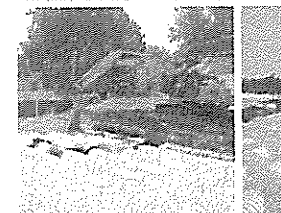
EVEN BACKFILL PERIMETER FULLY BACKFILLED

Backfill chambers evenly. Stone column height should never differ by more than 12" (300 mm) between adjacent chamber rows or between chamber rows and perimeter.

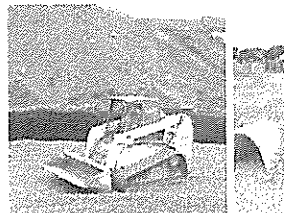
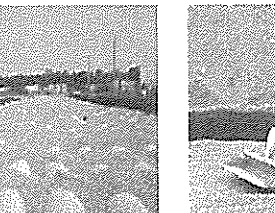
Perimeter stone must be brought up evenly with chamber rows. Perimeter must be fully backfilled with stone extended horizontally to the excavation wall.

Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

Backfill of Chambers - Equipment System and Inlet Pipes

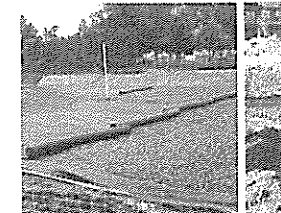


Continue evenly backfilling between rows and around perimeter until embedment stone reaches tops of chambers. Perimeter stone is not extended horizontally to the excavation wall for both straight or stepped sidewalls. Only after chambers have been backfilled to top of chamber and with a minimum 6" (150 mm) of cover stone on top of chambers can small dozers be used over the chambers for backfilling remaining cover stone.



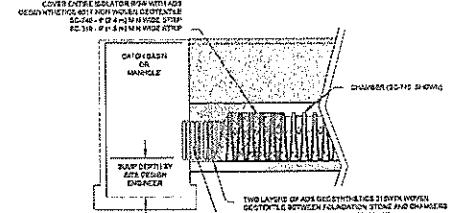
Small dozers and shod loaders may be used to finish grading grade backfill in accordance with ground pressure limits in Table 2. They must operate parallel to rows only. Never push perpendicular to rows. StormTech recommends that the contractor inspect chambers before placing final backfill. Any chambers damaged by construction shall be removed & replaced.

Final Backfill at End of Run



Install non-woven geotextile over stone. Geotextile must overlap 24" (600 mm) min. where edges meet. Compact each lift of backfill as specified in the site design engineer's drawings. Roller travel parallel with rows.

Requirements for Final Backfill



COVER ENTIRE EXCAVATION WITH ADS GEOTEXTILE PER THE FOLLOWING REQUIREMENTS: SC-748 - 24" (600 mm) WIDE STRIP SC-310 - 48" (1200 mm) WIDE STRIP

Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

Table 1 - Acceptable Fill Materials

Material	Min. Size	Max. Size	Notes
Final Fill (1) Material	1/2" (12.5 mm)	12" (300 mm)	As specified on site. Check placement and compaction.
Bed Fill (2) Material	1/2" (12.5 mm)	12" (300 mm)	As specified on site. Check placement and compaction.
Embedment Stone (3) Material	1/2" (12.5 mm)	12" (300 mm)	As specified on site. Check placement and compaction.
Foundation Stone (4) Material	1/2" (12.5 mm)	12" (300 mm)	As specified on site. Check placement and compaction.

Figure 1 - Inspection Port Detail

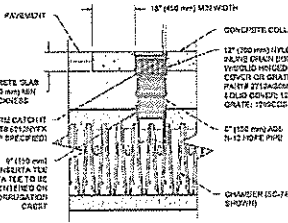
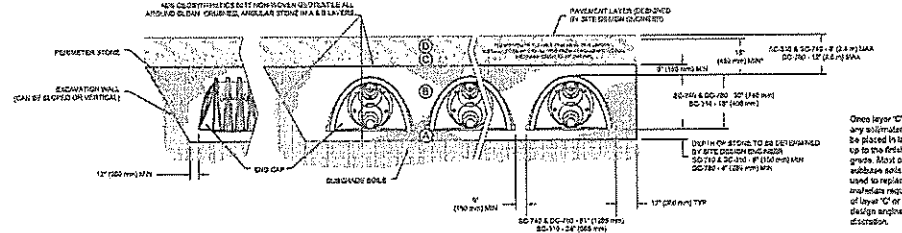


Figure 2 - Fill Material Locations



Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

Table 2 - Maximum Allowable Construction Vehicle Loads*

Material	Vehicle Type	Weight (lb)	Weight (kg)	Notes
Final Fill (1)	Concrete	32,000 (14,500)	16,000 (7,250)	24" (600 mm) min. depth
	Asphalt	24,000 (10,800)	12,000 (5,400)	
Bed Fill (2)	Concrete	32,000 (14,500)	16,000 (7,250)	24" (600 mm) min. depth
	Asphalt	24,000 (10,800)	12,000 (5,400)	
Embedment Stone (3)	Concrete	32,000 (14,500)	16,000 (7,250)	24" (600 mm) min. depth
	Asphalt	24,000 (10,800)	12,000 (5,400)	
Foundation Stone (4)	Concrete	32,000 (14,500)	16,000 (7,250)	24" (600 mm) min. depth
	Asphalt	24,000 (10,800)	12,000 (5,400)	

Table 3 - Placement Methods and Descriptions

Material	Placement Method	Description
Final Fill (1)	Asphalt	Asphalt can be dumped over stone and compacted. Do not use dozer to push asphalt over stone.
Bed Fill (2)	Asphalt	Asphalt can be dumped over stone and compacted. Do not use dozer to push asphalt over stone.
Embedment Stone (3)	Asphalt	Asphalt can be dumped over stone and compacted. Do not use dozer to push asphalt over stone.
Foundation Stone (4)	Asphalt	Asphalt can be dumped over stone and compacted. Do not use dozer to push asphalt over stone.

Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

DATE	NOTES / REVISIONS
NOTE	CONTACT DIG-SAFE PRIOR TO ANY EXCAVATIONS 1-888-344-7233
NOTE	SUBJECT TO EASEMENTS, RESTRICTIONS AND R.O.W.'S OF RECORD, IF ANY AND APPLICABLE.

ZONING DIMENSIONAL REQUIREMENTS									
ZONE	FRONTAGE	AREA (S.F.)	FRONT SETBACK	REAR SETBACK	DENSITY COVER	HEIGHT	MAX. STORES	CITY BY-LAWS	
BUS. A	N.R.	N.R.	25'	15'	25'	60%	40'	SECTION 275-58	
EXISTING	85'	15,303	-	VACANT LOT	-	VACANT LOT	-	PARCEL C - GROVE ST.	
PROP.	85'	15,303	66'	17'	41'	56%	<40'	1 GROVE ST.	

NOTE - ALL ZONING DIMENSIONAL REQUIREMENTS SHOWN ON THIS PLAN SHALL BE VERIFIED & APPROVED BY THE LOCAL BUILDING DEPT. OR BY THE LOCAL ZONING ENFORCEMENT OFFICE.
 N.R. = NO REQUIREMENT
 TOTAL IMPERVIOUS PROPOSED = 8,268 S.F.

OWNER OF RECORD -
 OAK RIVER DEVELOPMENT
 DEED 19937, PAGE 33.
 PLAN 337, PAGE 39.
 PARCEL ID: 0147-00005.
 169 GROVE STREET
 CHICOPEE, MA 01020

CONTRACTOR -
 TO BE DETERMINED.

APPLICANT -
 MUTT CUTS, LLC
 63 1/2 MAIN STREET
 P.O. BOX 10
 LORI A. JERUSIK
 PHONE (413) 594-8144

INDEX -
 SHEET 1 = COVER
 SHEET 2 = NOTES
 SHEET 3 = EXISTING
 SHEET 4 = PROPOSED

STORMWATER DESIGN BY -
 GARY P. WEINER, P.E.
 53 MILL POND ROAD
 HAMPDEN, MA 01036
 PHONE (413) 374-4467

INDEX CONTINUED -
 SHEET 5 = DETAILS

PROPOSED SITE PLAN - GROVE STREET

INDEXED

PLAN OF LAND IN THE CITY OF CHICOPEE, MASSACHUSETTS
 HAMPDEN COUNTY - PREPARED FOR
 MUTT CUTS, LLC

DURKEE, WHITE, TOWNE AND CHAPBLAINE
 CIVIL ENGINEERS AND LAND SURVEYORS
 356 FRONT STREET
 CHICOPEE, MASSACHUSETTS - 01013
 PHONE (413) 592-5164

DRAWN BY EJC
 CHECKED BY _____
 APPROVED BY EJC
 SCANNED _____

DATE: 10/08/2016
 PLOT: 11/22/2016
 SCALE: 1" = 20'

DRAWING No.
 82-4364
 5.2016-115.1

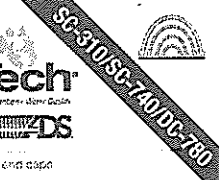
SHEET 6

FILE 2015-125-B Site Plan.S90

- DETAIL SHEET -

StormTech Construction Guide

StormTech
A Division of ADS



REQUIRED MATERIALS AND EQUIPMENT LIST

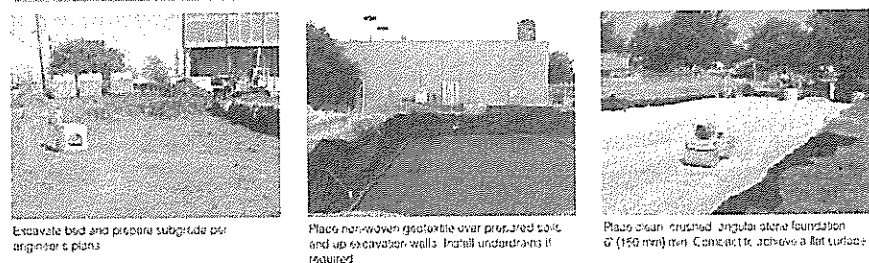
- Acceptable fill materials per Table 1
- Woven and non-woven geotextiles

- StormTech solid end caps and pre-stored end caps
- StormTech chambers
- StormTech manifolds and fittings

IMPORTANT NOTES:

- This installation guide provides the minimum requirements for proper installation of chambers. Non-adherence to this guide may result in damage to chambers during installation. Replacement of damaged chambers during or after backfilling is costly and very time consuming. It is recommended that all installers are familiar with this guide, and that the contractor inspects the chambers for distortion, damage and joint integrity as work progresses.
- Use of a dozer to push embedment stone between the rows of chambers may cause damage to chambers and is not an acceptable backfill method. Any chambers damaged by using the "dump and push" method are not covered under the StormTech standard warranty.
- Care should be taken in the handling of chambers and end caps. Avoid dropping, prying or excessive force on chambers during removal from pallet and initial placement.

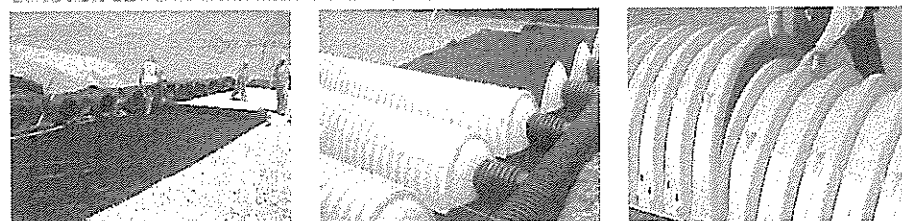
Requirements for System Installation



Excavate bed and prepare subgrade per engineer's plans. Place non-woven geotextile over prepared soil and up excavation walls. Install underdrains if required. Place clean, crushed, angular stone foundation @ (150 mm) min. Compact to achieve a flat surface.

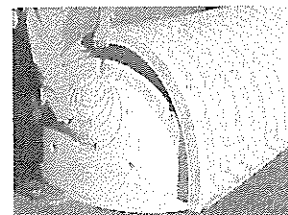
Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

Manifold, Street Inlets and Chamber Assembly



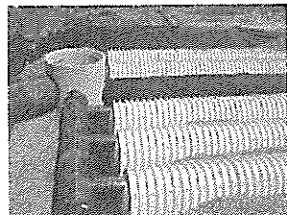
Install manholes and lay out woven scour geotextile at inlet rows (min. 12' (3.7 m)) at each inlet end cap. Place a continuous piece (no seams, double layer) along entire length of Inlet Rows. Align the first chamber and end cap of each row with inlet pipes. Contractor may choose to post the stone placement around end chambers and leave ends of rows open for easy inspection of chambers during the backfill process. Construct the chamber bed by overlapping the chambers lengthwise in rows. Attach chambers by overlapping the end connection of one chamber on to the end connection of the next chamber in the row. Be sure that the chamber placement does not exceed by reach of the construction equipment used to place the stone.

Attaching the End Caps



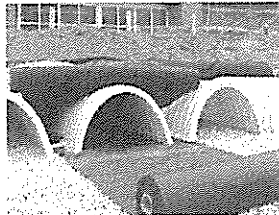
Fit the end of the chamber a few inches off the ground. With the curved base of the end cap facing outward, place the end cap into the chamber and compress.

Pre-attached End Caps



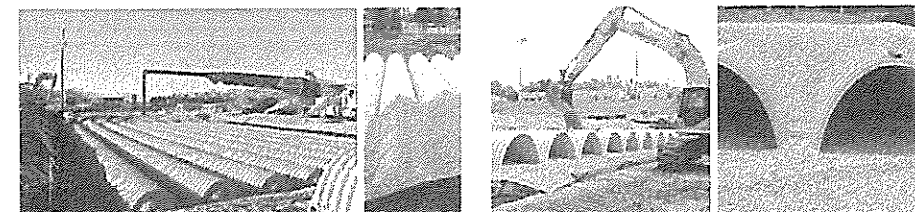
24" (600 mm) max. is the maximum size that can fit into a 30" (762 mm) x 750 and cap and must be pre-fabricated with a 24" (600 mm) pipe stub. SC-310 chamber with a 12" (300 mm) inlet pipe must use a pre-fabricated end cap with a 12" (300 mm) pipe stub.

Soil Layer



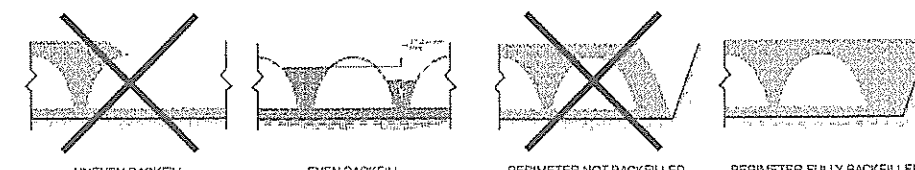
Place a strip of ADS non-woven geotextile over the row of chambers (not required over DC-780). This is the same type of non-woven geotextile used as a separation layer around the angular stone of the StormTech system.

Initial Backfilling of Chambers - "Preparation" Stage



Initial embedment shall be spread along the centerline of the chamber evenly anchoring the lower portion of the chamber. This is best accomplished with a stone conveyor or excavator reaching along the row. No equipment shall be operated on the bed at this stage of the installation. Excavators must be loaded off the bed. Dump trucks shall not dump stone directly on to the bed. Dozers or graders are not allowed on the bed at this time.

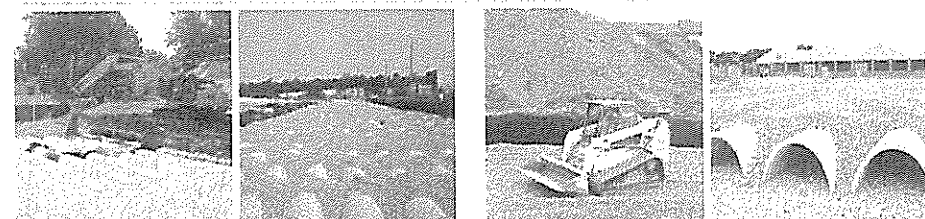
Backfill of Chambers - "Embedment" Stage



Backfill chambers evenly. Stone column height should never differ by more than 12" (300 mm) between adjacent chamber rows or between chamber rows and perimeter. Perimeter stone must be brought up evenly with chamber rows. Perimeter must be fully backfilled with stone extended horizontally to the excavation wall.

Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

Backfill of Chambers - "Embedment" Stage



Continue evenly backfilling between rows and around perimeter until embedment stone reaches top of chambers. Perimeter stone must extend horizontally to the backfill wall for both adjacent rows of chambers. Only after chambers have been backfilled to top of chamber and with a minimum 6" (150 mm) of cover stone on top of chambers can small dozers be used over the chambers for backfilling remaining cover stone. Small dozers and skid loaders may be used to finish grading stone backfill in accordance with ground pressure limits in Table 2. They must push material parallel to rows only. Never push perpendicular to rows. StormTech recommends that the contractor inspect chambers before placing final backfill. Any chambers damaged by construction shall be removed & replaced.

Final Backfill of Chambers - "Embedment" Stage



Install non-woven geotextile over stone. Geotextile must overlap 24" (600 mm) min. where edges meet. Compact each lift of basefill as specified in the site design engineer's drawings. Roller travel parallel with rows.

Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

Table 1 - Acceptable Fill Materials

Material	Notes	Min. Size	Max. Size	Notes
Final Fill Material	Acceptable fill materials shall be used in accordance with the local building department. Check the requirements of the local building department for the final fill.	NA	NA	Final fill shall be compacted to meet the design requirements.
Initial Fill Material	Gravel with gradation as specified in ADS-1000-100. It shall be clean, washed, and free of fines. It shall be placed in a minimum 12" (300 mm) layer.	4.75 mm (No. 40)	100 mm (No. 20)	Gravel shall be placed in a minimum 12" (300 mm) layer.
Embedment Stone	Embedment stone shall be clean, washed, and free of fines. It shall be placed in a minimum 12" (300 mm) layer.	4.75 mm (No. 40)	100 mm (No. 20)	Embedment stone shall be placed in a minimum 12" (300 mm) layer.
Foundation Stone	Foundation stone shall be clean, washed, and free of fines. It shall be placed in a minimum 12" (300 mm) layer.	4.75 mm (No. 40)	100 mm (No. 20)	Foundation stone shall be placed in a minimum 12" (300 mm) layer.

Figure 1 - Inspection Port Detail

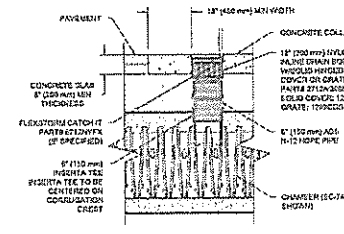
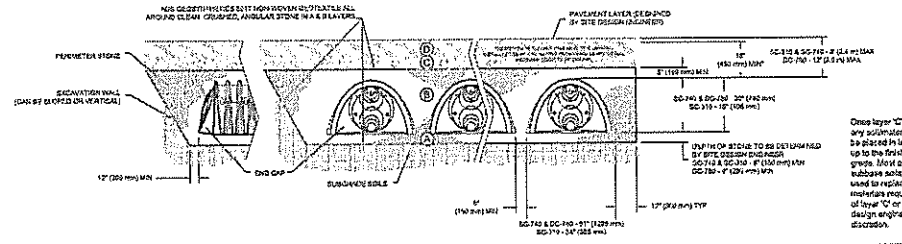


Figure 2 - Fill Material Locations



Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

Table 2 - Maximum Allowable Construction Vehicle Loads

Material	Vehicle Type	Weight (kN)	Weight (kN)	Weight (kN)	Weight (kN)
Final Fill Material	30' (9.1 m)	22,000 (4,920)	10,000 (2,224)	2,000 (448)	20,000 (4,480)
	24' (7.3 m)	22,000 (4,920)	10,000 (2,224)	2,000 (448)	20,000 (4,480)
Initial Fill Material	30' (9.1 m)	22,000 (4,920)	10,000 (2,224)	2,000 (448)	20,000 (4,480)
	24' (7.3 m)	22,000 (4,920)	10,000 (2,224)	2,000 (448)	20,000 (4,480)
Embedment Stone	30' (9.1 m)	22,000 (4,920)	10,000 (2,224)	2,000 (448)	20,000 (4,480)
	24' (7.3 m)	22,000 (4,920)	10,000 (2,224)	2,000 (448)	20,000 (4,480)
Foundation Stone	30' (9.1 m)	22,000 (4,920)	10,000 (2,224)	2,000 (448)	20,000 (4,480)
	24' (7.3 m)	22,000 (4,920)	10,000 (2,224)	2,000 (448)	20,000 (4,480)

Table 3 - Placement Methods and Descriptions

Material	Method	Description
Final Fill Material	Spread	Spread evenly over the surface. Do not use dozers or graders to push material over the surface.
Initial Fill Material	Spread	Spread evenly over the surface. Do not use dozers or graders to push material over the surface.
Embedment Stone	Spread	Spread evenly over the surface. Do not use dozers or graders to push material over the surface.
Foundation Stone	Spread	Spread evenly over the surface. Do not use dozers or graders to push material over the surface.

Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

	DATE	NOTES / REVISIONS	ZONING DIMENSIONAL REQUIREMENTS						OWNER OF RECORD -	APPLICANT -	STORMWATER DESIGN BY -	PROPOSED SITE PLAN - GROVE STREET				
	NOTE	CONTACT DIG-SAFE PRIOR TO ANY EXCAVATIONS 1-888-344-7233	ZONE	FRONTAGE	AREA (S.F.)	FRONT	REAR	DEPT. COVER	HEIGHT	MAX. STORIES	CITY BY-LAWS	OAK RIVER DEVELOPMENT DEED 19937, PAGE 33. PLAN 337, PAGE 39. PARCEL ID: 0147-00005. 169 GROVE STREET CHICOPEE, MA 01020	MUTT CUTS, LLC 63 1/2 MAIN STREET P.O. BOX 10 LORI A. JERUSIK PHONE (413) 594-8144	GARY P. WEINER, P.E. 53 MILL POND ROAD HAMPDEN, MA 01036 PHONE (413) 374-4467	INDEXED	PLAN OF LAND IN THE CITY OF CHICOPEE, MASSACHUSETTS HAMPDEN COUNTY - PREPARED FOR MUTT CUTS, LLC
NOTE	SUBJECT TO EASEMENTS, RESTRICTIONS AND R.O.W.'S OF RECORD, IF ANY AND APPLICABLE.	EXISTING	85'	15,303	-	VACANT LOT	-	VACANT LOT	-	PARCEL C - GROVE ST.	CONTRACTOR -	INDEX -	INDEX CONTINUED -		DURKEE, WHITE, TOWNE AND CHAPDELAIN CIVIL ENGINEERS AND LAND SURVEYORS 356 FRONT STREET CHICOPEE, MASSACHUSETTS - 01013 PHONE (413) 592-5164	
		PROP.	85'	15,303	66'	17'	41'	56%	<40'	No. GROVE ST.	TO BE DETERMINED.	SHEET 1 = COVER SHEET 2 = NOTES SHEET 3 = EXISTING SHEET 4 = PROPOSED	SHEET 5 = DETAILS	DRAWN BY EJC CHECKED BY APPROVED BY EJC SCANNED	DATE: 10/08/2016 PLOT 11/22/2016 SCALE 1" = 20'	DRAWING No. 82-4364 5.2016-115.1
		NOTE - ALL ZONING DIMENSIONAL REQUIREMENTS SHOWN ON THIS PLAN SHALL BE VERIFIED & APPROVED BY THE LOCAL BUILDING DEPT. OR BY THE LOCAL ZONING ENFORCEMENT OFFICE.													FILE 2015-125-B Site Plan.S90	

- DETAIL SHEET -

StormTech Construction Guide

StormTech
 Drainage Chamber - Storm Tech
 A Division of **ADDS**

SC-31/DC-740/DC-780

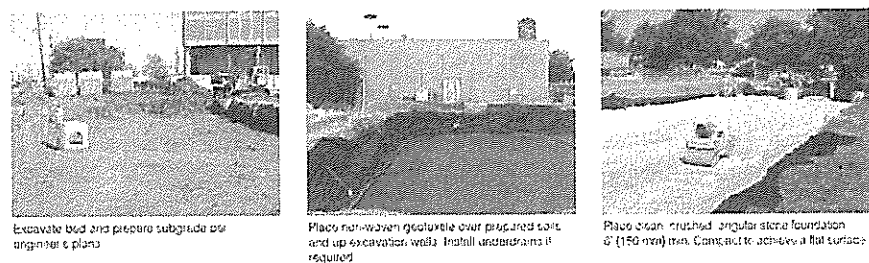
REQUIRED MATERIALS AND EQUIPMENT LIST

- Accessible fill materials per Table 1
- StormTech solid end caps and pre-formed end caps
- StormTech chambers
- StormTech manholes and fittings
- Woven and non-woven geotextiles

IMPORTANT NOTES:

- A. This installation guide provides the minimum requirements for proper installation of chambers. Non-adherence to this guide may result in damage to chambers during installation. Replacement of damaged chambers during or after backfilling is costly and very time consuming. It is recommended that all installers are familiar with this guide, and that the contractor inspects the chambers for distortion, damage and joint integrity as work progresses.
- B. Use of a dozer to push embedment stone between the rows of chambers may cause damage to chambers and is not an acceptable backfill method. Any chambers damaged by using the "dump and push" method are not covered under the StormTech standard warranty.
- C. Care should be taken in the handling of chambers and end caps. Avoid dropping, prying or excessive force on chambers during removal from pallet and initial placement.

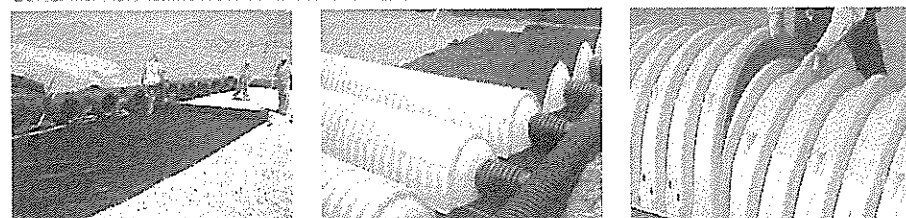
Requirements for System Installation



Excavate bed and prepare subgrade per engineer's plans. Place non-woven geotextile over prepared soil and up excavation walls. Install underdrains if required. Place clean, crushed angular stone foundation 6" (150 mm) thick. Compact to achieve a flat surface.

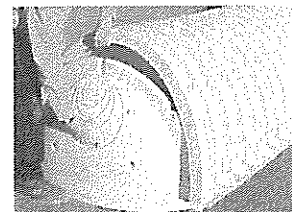
Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

Manhole, Street Light and Chamber Assembly



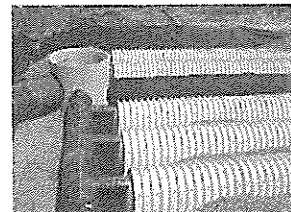
Install manhole and lay out woven scour geotextile at inlet rows (min. 12.5 ft (3.8 m)) at each inlet end cap. Place a continuous piece (no seams, double layer) along entire length of Isolator Rows. Align the first chamber and end cap of each row with inlet pipes. Contractor may choose to place the stone placement around end chambers and leave ends of rows open for easy inspection of chambers during the backfill process. Construct the chamber bed by overlapping the chambers lengthwise in rows. Attach chambers by overlapping the end connection of one chamber on to the end connection of the last chamber in the row. Be sure that the chamber placement does not exceed the reach of the construction equipment used to place the stone.

Attaching the End Cap



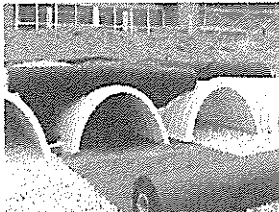
Lift the end of the chamber a few inches off the ground. With the curved face of the end cap facing outward, place the end cap into the chamber and compress.

Pre-Installed End Caps



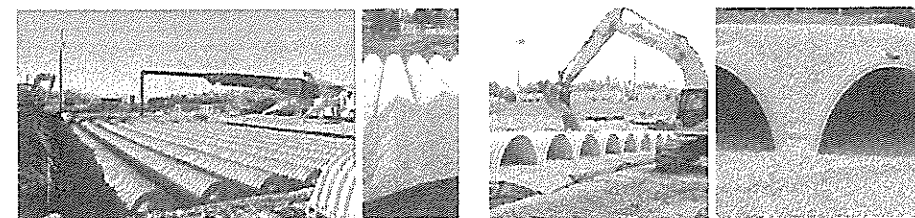
24" (600 mm) end caps are the maximum size that can fit into a SC-31/DC-740/DC-780 end cap and must be pre-installed with a 24" (600 mm) pipe stub. SC-31/DC-740/DC-780 end caps must use a pre-fabricated end cap with a 12" (300 mm) pipe stub.

Isolator Rows



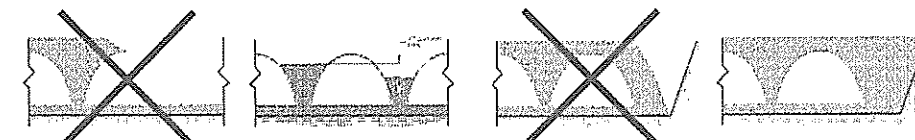
Drive a strip of ADS non-woven geotextile over the row of chambers (not reached over DC-780). This is the same type of non-woven geotextile used as a separator layer between the angular stone of the StormTech system.

Initial Backfilling of Chambers - Embedment Stone



Initial embedment shall be applied along the centerline of the chamber evenly anchoring the lower portion of the chamber. This is best accomplished with a stone conveyor or excavator reaching along the row. No equipment shall be operated on the bed at this stage of the installation. Excavators must be located off the bed. Dump trucks shall not dump stone directly on to the bed. Dozers or graders are not allowed on the bed at this time.

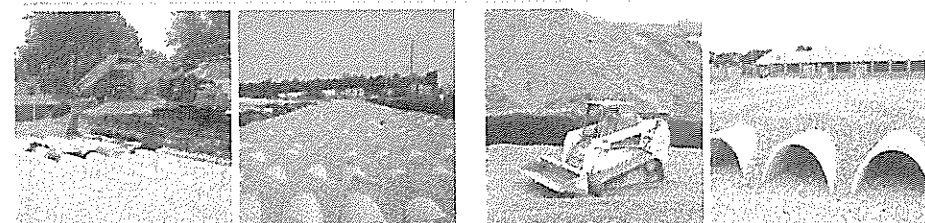
Backfill of Chambers - Embedment Stone



Backfill chambers evenly. Stone crown height should never differ by more than 12" (300 mm) between adjacent chamber rows or between chamber rows and perimeter. Perimeter stone must be brought up evenly with chamber rows. Perimeter must be fully backfilled with stone extended horizontally to the excavation wall.

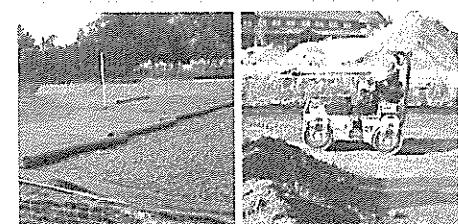
Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

Backfill of Chambers - Embedment Stone and Cover Stone



Continue evenly backfilling between rows and around perimeter with embedment stone reaching top of chambers. Perimeter stone must extend horizontally to the excavation wall for both straight or stepped details. Only after chambers have been backfilled to top of chamber and with a minimum 6" (150 mm) of cover stone on top of chamber can small dozers be used over the chambers for backfilling remaining cover stone. Small dozers and skid loaders may be used to finish grading stone backfill in accordance with ground pressure limits in Table 2. They must travel parallel to rows only. Never push perpendicular to rows. StormTech recommends that the contractor inspect chambers before placing final backfill. Any chambers damaged by construction shall be removed & replaced.

Final Backfill of Chambers - Embedment Stone



Install non-woven geotextile over stone. Geotextile must overlap 24" (600 mm) min. where edges meet. Compact each lift of backfill as specified in the site design engineer's drawings. Roller travel parallel with rows.

Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

Table 1 - Acceptable Fill Materials

Material	Notes	Max. Size	Notes
Final Fill #1 Material	As specified in the contract documents. Check for presence of organic material and deleterious materials.	12" (300 mm)	As specified in the contract documents.
Initial Fill #1 Material	As specified in the contract documents. Check for presence of organic material and deleterious materials.	12" (300 mm)	As specified in the contract documents.
Embedment Stone	Embedment stone shall be clean, crushed angular stone with a maximum size of 12" (300 mm).	12" (300 mm)	As specified in the contract documents.
Foundation Stone	Foundation stone shall be clean, crushed angular stone with a maximum size of 6" (150 mm).	6" (150 mm)	As specified in the contract documents.

Figure 1 - Inspection Port Detail

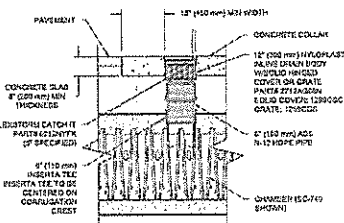
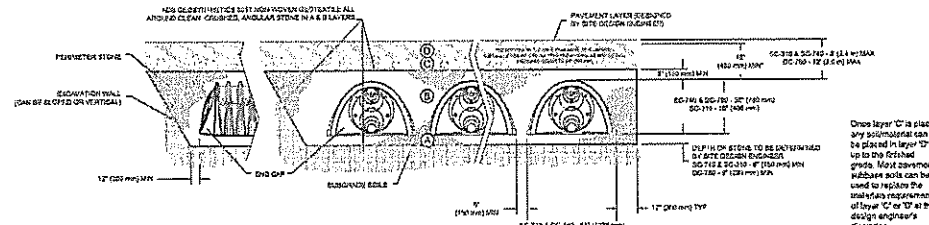


Figure 2 - Fill Material Locations



Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

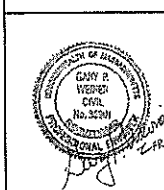
Table 2 - Maximum Allowable Construction Vehicle Loads

Material	Vehicle Type	Max. Load (kN)	Max. Load (kPa)
Final Fill	Concrete	22,000 (4,920)	15,000 (3,250)
	Compacted	22,000 (4,920)	15,000 (3,250)
Initial Fill	Concrete	22,000 (4,920)	15,000 (3,250)
	Compacted	22,000 (4,920)	15,000 (3,250)
Embedment Stone	Concrete	12,000 (2,670)	8,000 (1,770)
	Compacted	12,000 (2,670)	8,000 (1,770)
Foundation Stone	Concrete	12,000 (2,670)	8,000 (1,770)
	Compacted	12,000 (2,670)	8,000 (1,770)

Table 3 - Placement Methods and Descriptions

Material	Placement Method	Description
Final Fill	Excavator	Excavator to push parallel to rows. Do not use dozer to push parallel to rows. Do not use dozer to push perpendicular to rows.
Initial Fill	Excavator	Excavator to push parallel to rows. Do not use dozer to push parallel to rows. Do not use dozer to push perpendicular to rows.
Embedment Stone	Excavator	Excavator to push parallel to rows. Do not use dozer to push parallel to rows. Do not use dozer to push perpendicular to rows.
Foundation Stone	Excavator	Excavator to push parallel to rows. Do not use dozer to push parallel to rows. Do not use dozer to push perpendicular to rows.

Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com



DATE	NOTES / REVISIONS
NOTE	CONTACT DIG-SAFE PRIOR TO ANY EXCAVATIONS 1-888-344-7233
NOTE	SUBJECT TO EASEMENTS, RESTRICTIONS AND R.O.W.'S OF RECORD, IF ANY AND APPLICABLE.

ZONING DIMENSIONAL REQUIREMENTS									
ZONE	FRONTAGE	AREA (S.F.)	FRONT SETBACK	REAR SETBACK	DENSITY COVER	HEIGHT	MAX. STORIES	CITY BY-LAWS	
BUS. A	N.R.	N.R.	25'	15'	25'	60%	40'	SECTION 275-5B	
EXISTING	85'	15,303	-	VACANT LOT	-	VACANT LOT	-	PARCEL C - GROVE ST.	
PROP.	85'	15,303	66'	17'	41'	56%	<40'	1 GROVE ST	

NOTE - ALL ZONING DIMENSIONAL REQUIREMENTS SHOWN ON THIS PLAN SHALL BE VERIFIED & APPROVED BY THE LOCAL BUILDING DEPT. OR BY THE LOCAL ZONING ENFORCEMENT OFFICE.
 N.R. = NO REQUIREMENT
 TOTAL IMPERVIOUS PROPOSED = 8,268 S.F.

OWNER OF RECORD -	APPLICANT -
OAK RIVER DEVELOPMENT DEED 19937, PAGE 33, PLAN 337, PAGE 39, PARCEL ID: 0147-00005, 169 GROVE STREET CHICOPEE, MA 01020	MUTT CUTS, LLC 63 1/2 MAIN STREET P.O. BOX 10 LORI A. JERUSIK PHONE (413) 594-8144
CONTRACTOR -	INDEX -
TO BE DETERMINED.	SHEET 1 = COVER SHEET 2 = NOTES SHEET 3 = EXISTING SHEET 4 = PROPOSED

STORMWATER DESIGN BY -
GARY P. WEINER, P.E. 53 MILL POND ROAD HAMPDEN, MA 01036 PHONE (413) 374-4467
INDEX CONTINUED -
SHEET 5 = DETAILS

PROPOSED SITE PLAN - GROVE STREET

PLAN OF LAND IN THE CITY OF CHICOPEE, MASSACHUSETTS
 HAMPDEN COUNTY - PREPARED FOR
MUTT CUTS, LLC

DURKEE, WHITE, TOWNE AND CHAPDELAINÉ
 CIVIL ENGINEERS AND LAND SURVEYORS
 356 FRONT STREET
 CHICOPEE, MASSACHUSETTS - 01013
 PHONE (413) 592-5164

INDEXED	DRAWN BY EJC	DATE: 10/08/2016	DRAWING No.
	CHECKED BY	PLOT: 11/22/2016	82-4364
	APPROVED BY EJC	SCALE: 1" = 20'	5.2016-115.1
	SCANNED		

SHEET 6

- DETAIL SHEET -



SC-310/SC-740/DC-780

StormTech Construction Guide

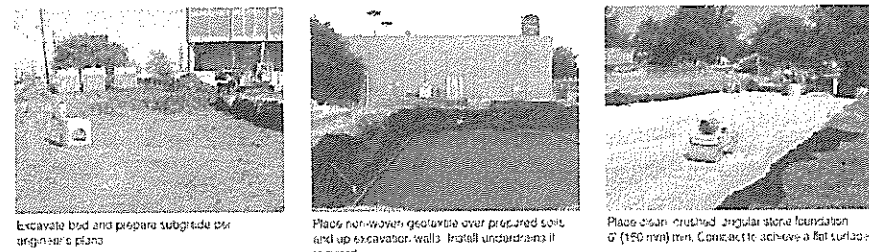
REQUIRED MATERIALS AND EQUIPMENT LIST

- Acceptable fill materials per Table 1
- StormTech chambers
- StormTech end caps and pre-cast end caps
- StormTech manholes and fittings
- Non-woven geotextile

IMPORTANT NOTES:

- This installation guide provides the minimum requirements for proper installation of chambers. Non-adherence to this guide may result in damage to chambers during installation. Replacement of damaged chambers during or after backfilling is costly and very time consuming. It is recommended that all installers are familiar with this guide, and that the contractor inspects the chambers for distortion, damage and joint integrity as work progresses.
- Use of a dozer to push embedment stone between the rows of chambers may cause damage to chambers and is not an acceptable backfill method. Any chambers damaged by using the "dump and push" method are not covered under the StormTech standard warranty.
- Care should be taken in the handling of chambers and end caps. Avoid dropping, prying or excessive force on chambers during removal from pallet and initial placement.

Requirements for System Installation



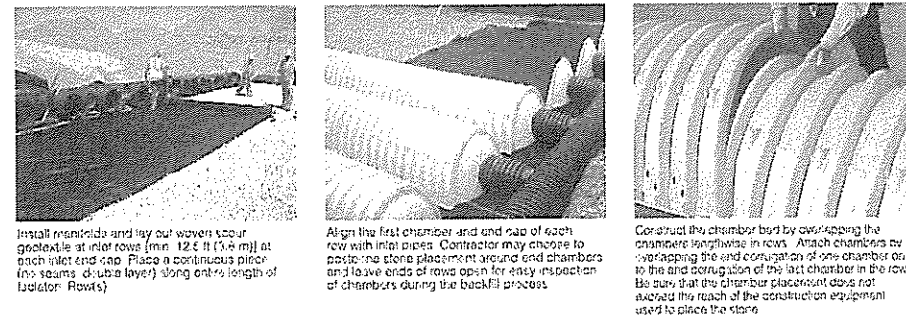
Excavate bed and prepare subgrade per engineer's plans

Place non-woven geotextile over prepared soil and up excavation walls. Install underdrains if required.

Place clean crushed angular stone foundation (150 mm) in. Compact to achieve a flat surface.

Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

Workload, Chamber Spacing and Chamber Orientation

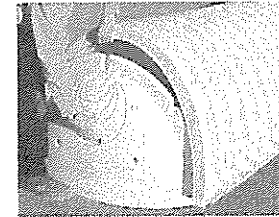


Install manholes and lay out woven geotextile at inlet rows (min. 12" (305 mm) at each inlet end cap. Place a continuous piece (no seams or joint lines) along entire length of inlet rows.

Align the first chamber and end cap of each row with inlet pipes. Contractor may choose to place the stone placement around end chambers and lay geotextile on top of end caps during the backfill process.

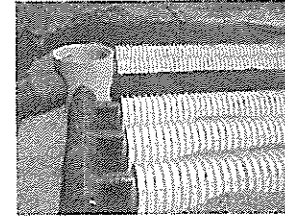
Construct the chamber bed by overlapping the chambers lengthwise in rows. Attach chambers by overlapping the end connection of one chamber on to the end connection of the last chamber in the row. Be sure that the chamber placement does not exceed the reach of the construction equipment used to place the stone.

Attaching the End Cap



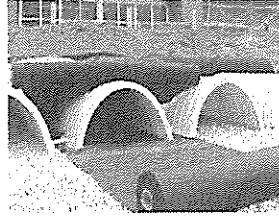
Lift the end of the chamber a few inches off the ground. With the curved face of the end cap facing outward, place the end cap into the chamber and compress.

Placement of End Caps



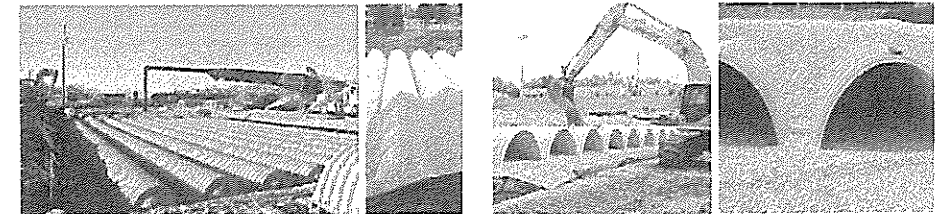
24" (600 mm) is the maximum size that can fit into a SC-740/DC-780 end cap and must be prefabricated with a 24" (600 mm) pipe stub. SC-310 chambers with a 12" (300 mm) inlet pipe must use a prefabricated end cap with a 12" (300 mm) pipe stub.

Insulator Ring



Drain a strip of ADS non-woven geotextile over the row of chambers first required over DC-780. This is the same type of non-woven geotextile used as a vegetation layer around the angular stone of the StormTech system.

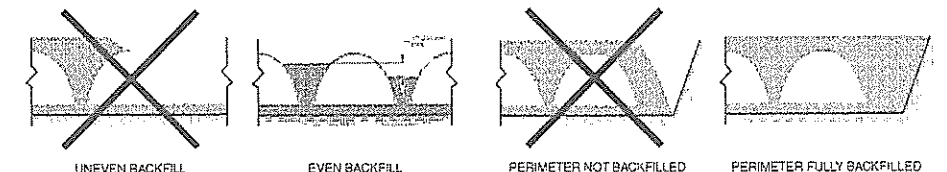
Initial Backfilling of Chambers - Embedded Stone



Initial embedment shall be spotted along the centerline of the chamber evenly anchoring the lower portion of the chamber. This is best accomplished with a side conveyor or excavator reaching along the row.

No equipment shall be operated on the bed at this stage of the installation. Excavators must be located off the bed. Dump trucks shall not dump stone directly on to the bed. Dozers or loaders are not allowed on the bed at this time.

Backfill of Chambers - Embedded Stone



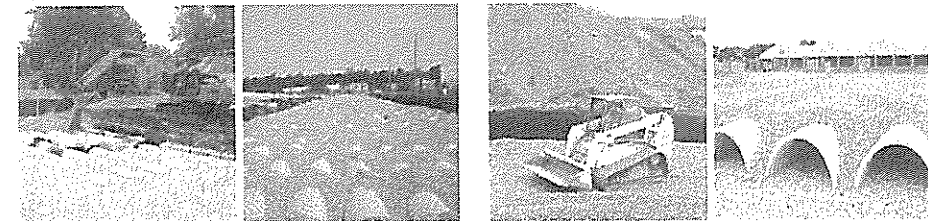
Backfill chambers evenly. Stone column height should never differ by more than 12" (300 mm) between adjacent chamber rows or between chamber rows and perimeter.

Perimeter stone must be brought up evenly with chamber rows. Perimeter must be fully backfilled with stone extended laterally to the excavation wall.

Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

3

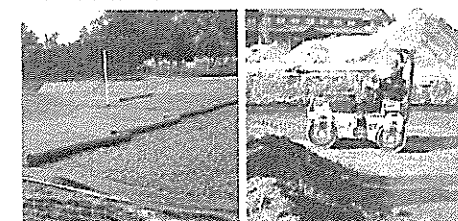
Workload, Chamber Spacing and Chamber Orientation



Continue evenly backfilling between rows and around perimeter until embedment stone reaches top of chambers. Perimeter stone must extend horizontally to the excavation wall for both straight or stepped sections. Only after chambers have been backfilled to top of chamber and with a minimum 6" (150 mm) of cover stone on top of chambers can small dozers be used over the chambers for backfilling remaining cover stone.

Small dozers and skid loaders may be used to finish grading stone backfill in accordance with ground surface levels in Figure 2. They must maintain parallel to rows only. Never drive perpendicular to rows. StormTech recommends that the contractor inspect chambers before placing final backfill. Any chambers damaged by construction shall be removed & replaced.

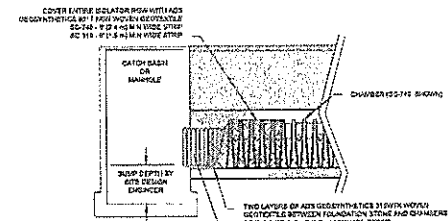
Types of Backfill Material



Install non-woven geotextile over stone. Geotextile must overlap 24" (600 mm) min. where edges meet. Compact each lift of backfill as specified in the site design engineer's drawings. Roller travel parallel with rows.

Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

Requirements for Backfill Material



COVER LAYER: SEPARATOR FROM HORIZONTAL BACKFILL: 1" (25.4 mm) MIN. GEOTEXTILE. SC-310: 1" (25.4 mm) MIN. WIDE STRIP. SC-740: 2" (50.8 mm) MIN. WIDE STRIP.

Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

Table 1 - Acceptable Fill Materials

Material	Min. Size	Max. Size	Notes
Final Fill Material	1/2" (12.5 mm)	12" (300 mm)	As specified in the site design engineer's drawings. Check for presence of any contaminants.
Initial Fill Material	1/2" (12.5 mm)	12" (300 mm)	Gravel with 20% fines and 20% fines maximum. Do not use fines or fines containing fines. Do not use fines containing fines.
Embedment Stone	1/2" (12.5 mm)	12" (300 mm)	Clean and free of organic matter. Do not use stone containing fines.
Foundation Stone	1/2" (12.5 mm)	12" (300 mm)	Clean and free of organic matter. Do not use stone containing fines.

Figure 1 - Inspection Port Detail

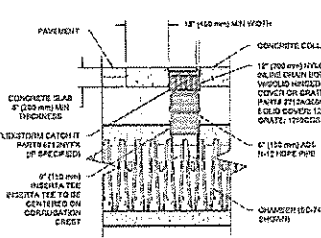
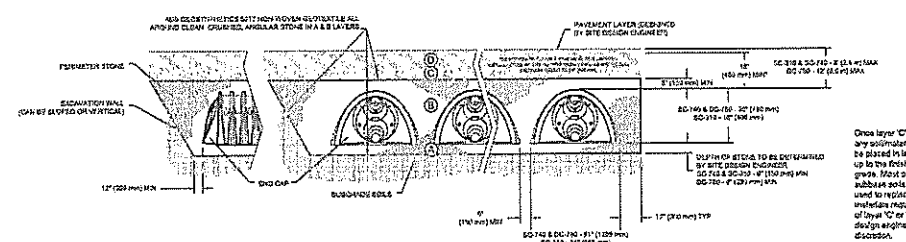


Figure 2 - Fill Material Locations



Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

Table 2 - Maximum Allowable Construction Vehicle Loads

Material	Min. Size	Max. Size	Notes
Final Fill Material	1/2" (12.5 mm)	12" (300 mm)	As specified in the site design engineer's drawings. Check for presence of any contaminants.
Initial Fill Material	1/2" (12.5 mm)	12" (300 mm)	Gravel with 20% fines and 20% fines maximum. Do not use fines or fines containing fines. Do not use fines containing fines.
Embedment Stone	1/2" (12.5 mm)	12" (300 mm)	Clean and free of organic matter. Do not use stone containing fines.
Foundation Stone	1/2" (12.5 mm)	12" (300 mm)	Clean and free of organic matter. Do not use stone containing fines.

Table 3 - Placement Methods and Descriptions

Material	Placement Method	Description
Final Fill Material	Final Fill	Final fill material shall be placed in layers up to the finished grade. Maximum compacted thickness shall be 12" (300 mm).
Initial Fill Material	Initial Fill	Initial fill material shall be placed in layers up to the finished grade. Maximum compacted thickness shall be 12" (300 mm).
Embedment Stone	Embedment Stone	Embedment stone shall be placed in layers up to the finished grade. Maximum compacted thickness shall be 12" (300 mm).
Foundation Stone	Foundation Stone	Foundation stone shall be placed in layers up to the finished grade. Maximum compacted thickness shall be 12" (300 mm).

Call StormTech at 888.892.2694 for technical and product information or visit www.stormtech.com

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	DATE	NOTES / REVISIONS	ZONING DIMENSIONAL REQUIREMENTS					OWNER OF RECORD -	APPLICANT -	STORMWATER DESIGN BY -	PROPOSED SITE PLAN - GROVE STREET					
	NOTE	CONTACT DIG-SAFE PRIOR TO ANY EXCAVATIONS 1-888-344-7233	ZONE	FRONTAGE	AREA (S.F.)	FRONT SETBACK	REAR SETBACK	DENSITY COVER	HEIGHT	MAX. STORIES	CITY BY-LAWS	OAK RIVER DEVELOPMENT DEED 19937, PAGE 33. PLAN 337, PAGE 39. PARCEL ID: 0147-00005. 169 GROVE STREET CHICOPEE, MA 01020	MUTT CUTS, LLC 63 1/2 MAIN STREET P.O. BOX 10 LORI A. JERUSIK PHONE (413) 594-8144	GARY P. WEINER, P.E. 53 MILL POND ROAD HAMPDEN, MA 01036 PHONE (413) 374-4467	PLAN OF LAND IN THE CITY OF CHICOPEE, MASSACHUSETTS HAMPDEN COUNTY - PREPARED FOR MUTT CUTS, LLC	
NOTE	SUBJECT TO EASEMENTS, RESTRICTIONS AND R.O.W.'S OF RECORD, IF ANY AND APPLICABLE.	EXISTING	85'	15,303	-	VACANT LOT	-	VACANT LOT	-	SECTION 275-58	PARCEL C - GROVE ST.				DURKEE, WHITE, TOWNE AND CHAPDELAIN CIVIL ENGINEERS AND LAND SURVEYORS 356 FRONT STREET CHICOPEE, MASSACHUSETTS - 01013 PHONE (413) 582-5164	
		PROP.	85'	15,303	68'	17'	41'	56%	<40'	1	No. GROVE ST				DRAWN BY EJC CHECKED BY EJC APPROVED BY EJC SCANNED	
		NOTE - ALL ZONING DIMENSIONAL REQUIREMENTS SHOWN ON THIS PLAN SHALL BE VERIFIED & APPROVED BY THE LOCAL BUILDING DEPT. OR BY THE LOCAL ZONING ENFORCEMENT OFFICE. N.R. = NO REQUIREMENT. TOTAL IMPERVIOUS PROPOSED = 8,268 S.F.										DATE: 10/08/2016 DRAWING No. 82-4364 PLOT 11/22/2016 SCALE 1" = 20' S.2016-115.1				
												SHEET 6				
												INDEX CONTINUED - SHEET 5 = DETAILS				
												INDEX - SHEET 1 = COVER SHEET 2 = NOTES SHEET 3 = EXISTING SHEET 4 = PROPOSED				

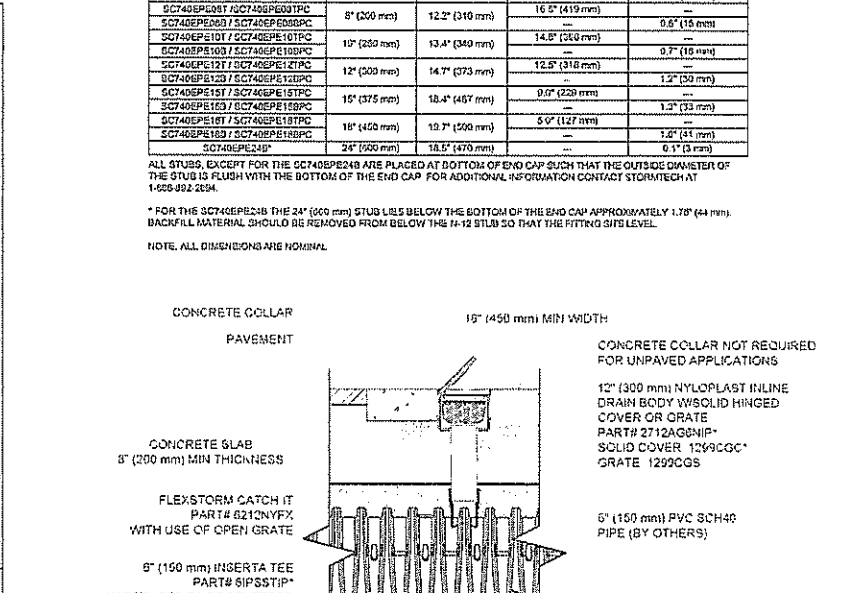
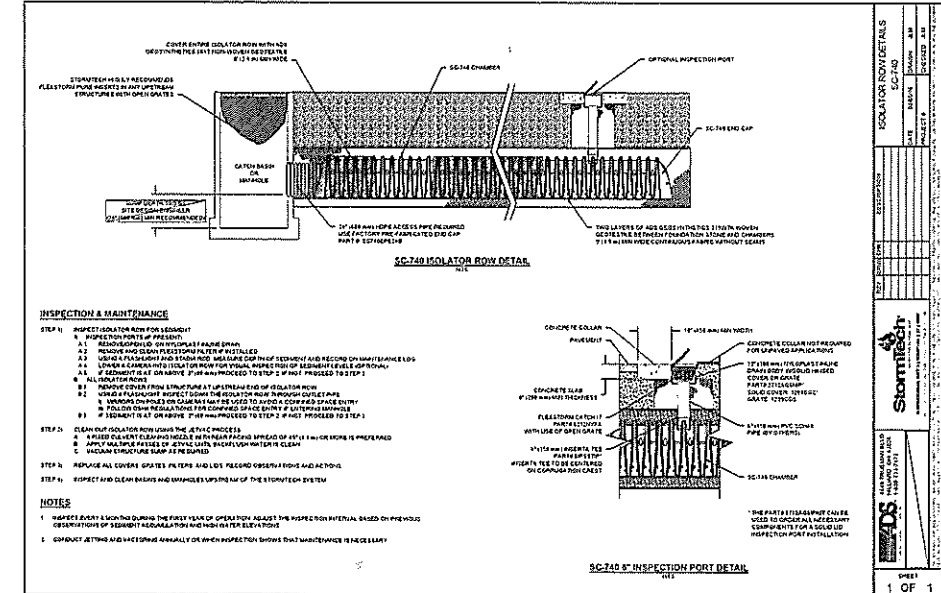
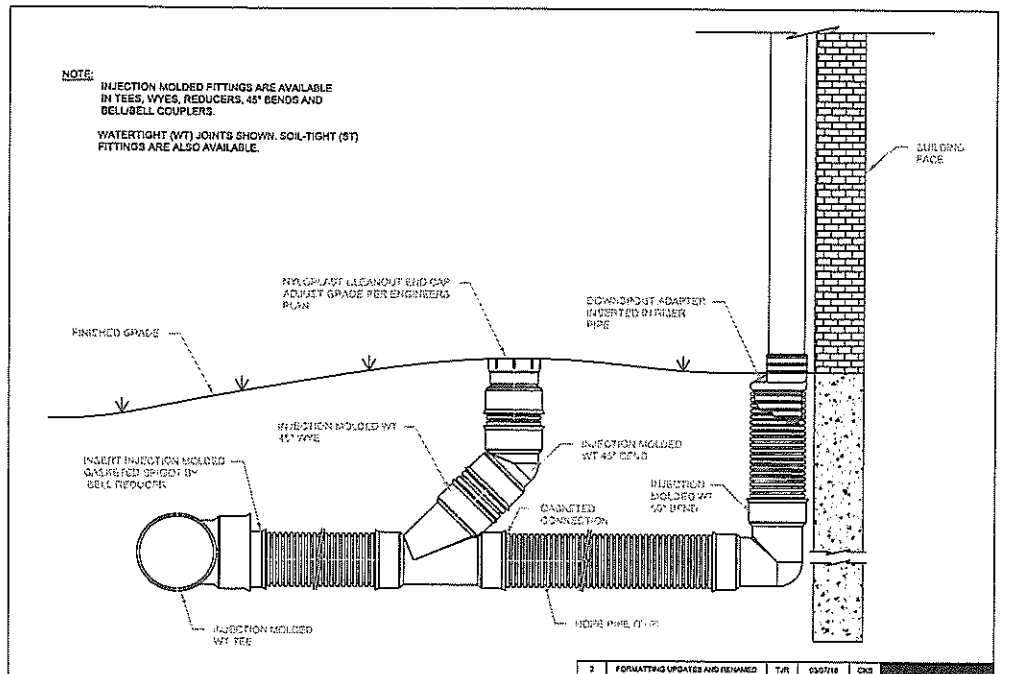
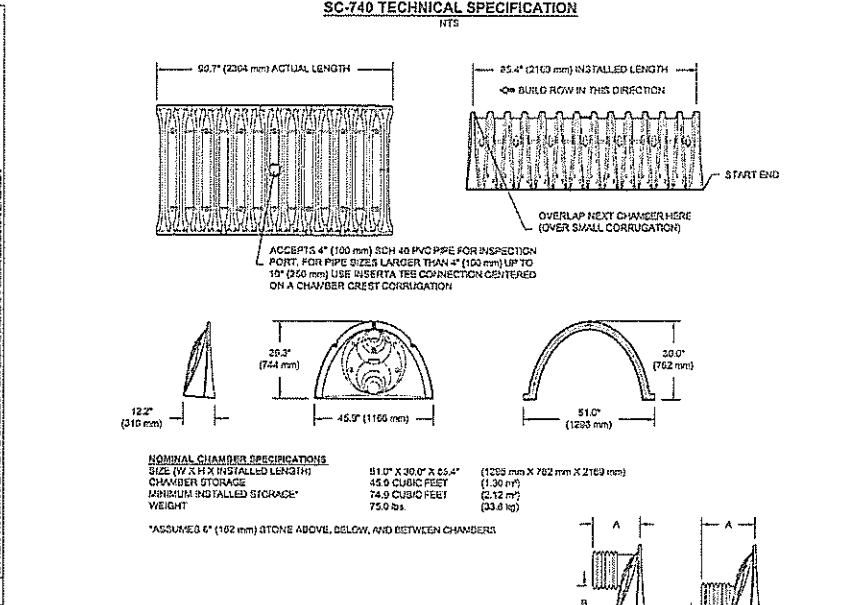
- DETAIL SHEET -

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	ADMITTED MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
1. FILL MATERIAL TO BE USED FOR CHAMBER SYSTEMS	ANY UNDESIRABLE MATERIALS SHALL BE REJECTED AND NOT USED IN CHAMBER SYSTEMS. ALL MATERIALS SHALL BE PROPERLY CLASSIFIED AND TESTED FOR COMPLIANCE WITH THE FOLLOWING REQUIREMENTS.	ALL	MINIMUM 95% PROCTOR COMPACTION FOR ALL MATERIALS. ALL MATERIALS SHALL BE PROPERLY CLASSIFIED AND TESTED FOR COMPLIANCE WITH THE FOLLOWING REQUIREMENTS.
2. FILL MATERIAL TO BE USED FOR CHAMBER SYSTEMS	ANY UNDESIRABLE MATERIALS SHALL BE REJECTED AND NOT USED IN CHAMBER SYSTEMS. ALL MATERIALS SHALL BE PROPERLY CLASSIFIED AND TESTED FOR COMPLIANCE WITH THE FOLLOWING REQUIREMENTS.	ALL	MINIMUM 95% PROCTOR COMPACTION FOR ALL MATERIALS. ALL MATERIALS SHALL BE PROPERLY CLASSIFIED AND TESTED FOR COMPLIANCE WITH THE FOLLOWING REQUIREMENTS.
3. FILL MATERIAL TO BE USED FOR CHAMBER SYSTEMS	ANY UNDESIRABLE MATERIALS SHALL BE REJECTED AND NOT USED IN CHAMBER SYSTEMS. ALL MATERIALS SHALL BE PROPERLY CLASSIFIED AND TESTED FOR COMPLIANCE WITH THE FOLLOWING REQUIREMENTS.	ALL	MINIMUM 95% PROCTOR COMPACTION FOR ALL MATERIALS. ALL MATERIALS SHALL BE PROPERLY CLASSIFIED AND TESTED FOR COMPLIANCE WITH THE FOLLOWING REQUIREMENTS.

NOTES:

- CHAMBER SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE DESIGN AND THE STORMTECH SC-740 CHAMBER SYSTEMS INSTALLATION MANUAL.
- CHAMBER SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE DESIGN AND THE STORMTECH SC-740 CHAMBER SYSTEMS INSTALLATION MANUAL.
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SC-740 6\"/>

CONCRETE COLLAR
 16\"/>

CONCRETE COLLAR NOT REQUIRED FOR UNPAVED APPLICATIONS

CONCRETE SLAB
 8\"/>

FLEXSTORM CATCH IT
 PART# 0212N1FX
 WITH USE OF OPEN GRATE

5\"/>

5\"/>

SC-740 CHAMBER

CONCRETE COLLAR
 16\"/>

CONCRETE COLLAR NOT REQUIRED FOR UNPAVED APPLICATIONS

CONCRETE SLAB
 8\"/>

FLEXSTORM CATCH IT
 PART# 0212N1FX
 WITH USE OF OPEN GRATE

5\"/>

5\"/>

SC-740 CHAMBER

DATE	NOTES / REVISIONS	ZONING DIMENSIONAL REQUIREMENTS										OWNER OF RECORD -	APPLICANT -	STORMWATER DESIGN BY -	PROPOSED SITE PLAN - GROVE STREET		
NOTE	CONTACT DIG-SAFE PRIOR TO ANY EXCAVATIONS 1-888-344-7233	ZONE	FRONTAGE	AREA (S.F.)	SETBACK FRONT	SETBACK SIDE	SETBACK REAR	DENSITY COVER	HEIGHT	MAX STORES	CITY BY-LAWS	OAK RIVER DEVELOPMENT DEED 19937, PAGE 33. PLAN 337, PAGE 39. PARCEL ID: 0147-00005. 169 GROVE STREET CHICOPEE, MA 01020	MUTT CUTS, LLC 63 1/2 MAIN STREET P.O. BOX 10 LORI A. JERUSIK PHONE (413) 594-8144	GARY P. WEINER, P.E. 53 MILL POND ROAD HAMPDEN, MA 01036 PHONE (413) 374-4467	PLAN OF LAND IN THE CITY OF CHICOPEE, MASSACHUSETTS HAMPDEN COUNTY - PREPARED FOR MUTT CUTS, LLC		
NOTE	SUBJECT TO EASEMENTS, RESTRICTIONS AND R.O.W.'S OF RECORD, IF ANY AND APPLICABLE.	BUS. A	HR.	N.R.	25'	15'	25'	60%	40'	---	SECTION 275-58	TO BE DETERMINED.	SHEET 1 = COVER SHEET 2 = NOTES SHEET 3 = EXISTING SHEET 4 = PROPOSED	GARY P. WEINER, P.E. 53 MILL POND ROAD HAMPDEN, MA 01036 PHONE (413) 374-4467	DURKEE, WHITE, TOWNE AND CHAPDELAIN CIVIL ENGINEERS AND LAND SURVEYORS 356 FRONT STREET CHICOPEE, MASSACHUSETTS - 01013 PHONE (413) 592-5164		
		EXISTING	85'	15,303	-	VACANT LOT	-	VACANT LOT	-	PARCEL C - GROVE ST.	NOTE - ALL ZONING DIMENSIONAL REQUIREMENTS SHOWN ON THIS PLAN SHALL BE VERIFIED & APPROVED BY THE LOCAL BUILDING DEPT. OR BY THE LOCAL ZONING ENFORCEMENT OFFICE N.R. = NO REQUIREMENT	INDEX -	SHEET 5 = DETAILS	DRAWN BY EJC CHECKED BY EJC APPROVED BY EJC SCANNED			
		PROP.	85'	15,303	66'	17'	41'	56%	<40'	1	No - GROVE ST	INDEX CONTINUED -	SHEET 7	DATE: 10/08/2016 PLOT 11/22/2016 SCALE 1" = 20'			
		TOTAL IMPERVIOUS PROPOSED = 8,268 S.F.										DRAWING No. 82-4364 5.2016-115.1					



- DETAIL SHEET -

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

FRONT LOCATION	DESCRIPTION	ADMITTED MATERIAL CLASSIFICATIONS	COMPACTION DENSITY REQUIREMENT
1. FILL MATERIALS TO BE USED IN THE SC-740 CHAMBER SYSTEMS SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION (AS DETERMINED BY STANDARD TEST METHOD ASTM D1557) TO THE FULL DEPTH OF THE CHAMBER.	ANY TYPE OF MATERIAL WITH A GRADE OR FINER THAN SAND, GRAVEL, OR CRUSHED STONE.	NA	95% RELATIVE COMPACTION (AS DETERMINED BY STANDARD TEST METHOD ASTM D1557) TO THE FULL DEPTH OF THE CHAMBER.
2. FILL MATERIALS TO BE USED IN THE SC-740 CHAMBER SYSTEMS SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION (AS DETERMINED BY STANDARD TEST METHOD ASTM D1557) TO THE FULL DEPTH OF THE CHAMBER.	GRAVEL OR SAND WITH A GRADE OR FINER THAN SAND, GRAVEL, OR CRUSHED STONE.	NA	95% RELATIVE COMPACTION (AS DETERMINED BY STANDARD TEST METHOD ASTM D1557) TO THE FULL DEPTH OF THE CHAMBER.
3. FILL MATERIALS TO BE USED IN THE SC-740 CHAMBER SYSTEMS SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION (AS DETERMINED BY STANDARD TEST METHOD ASTM D1557) TO THE FULL DEPTH OF THE CHAMBER.	GRAVEL OR SAND WITH A GRADE OR FINER THAN SAND, GRAVEL, OR CRUSHED STONE.	NA	95% RELATIVE COMPACTION (AS DETERMINED BY STANDARD TEST METHOD ASTM D1557) TO THE FULL DEPTH OF THE CHAMBER.

NOTES:

- SC-740 CHAMBER SYSTEMS SHALL BE USED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SC-740 CHAMBER SYSTEMS MANUAL.
- SC-740 CHAMBER SYSTEMS SHALL BE USED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SC-740 CHAMBER SYSTEMS MANUAL.
- SC-740 CHAMBER SYSTEMS SHALL BE USED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SC-740 CHAMBER SYSTEMS MANUAL.
- SC-740 CHAMBER SYSTEMS SHALL BE USED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SC-740 CHAMBER SYSTEMS MANUAL.

SC-740 TECHNICAL SPECIFICATION

OVERLAP NEXT CHAMBER HERE (OVER SMALL CORRUGATION)

ACCEPTS 4" (100 mm) SCH 40 PVC PIPE FOR INSPECTION PORT. FOR PIPE SIZES LARGER THAN 4" (100 mm) UP TO 10" (250 mm) USE INSERTA TEE CONNECTION CENTERED ON A CHAMBER GREAT CORRUGATION.

NORMAL CHAMBER SPECIFICATIONS:

SIZE (BY X H X INSTALLED LENGTH)	51" Ø X 30" D X 65" L	(1293 mm X 762 mm X 2189 mm)
CHAMBER STORAGE	45.9 CUBIC FEET	(1.30 m³)
MINIMUM INSTALLED STORAGE	74.9 CUBIC FEET	(2.12 m³)
WEIGHT	75.0 lbs	(33.9 kg)

* ASSUMED 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS.

NOTE: INJECTION MOLDED FITTINGS ARE AVAILABLE IN TEES, WYERS, REDUCERS, 45° BENDS AND BELLBELL COUPLERS.

WATERTIGHT (WT) JOINTS SHOWN. SOIL-TIGHT (ST) FITTINGS ARE ALSO AVAILABLE.

INSPECTION PORT DETAIL:

INSPECTION MOLDED WVT TEE
 INSERTA TEE MOLDED W/ 45° WYER
 INJECTION MOLDED WVT 45° WYER
 INJECTION MOLDED WVT 90° WYER
 INJECTION MOLDED WVT TEE

REVISIONS:

NO.	DESCRIPTION	BY	DATE
1	FORMATTING UPDATED AND REVISIONS	JAC	08/11/2016

SC-740 INSULATOR BODY DETAIL

INSPECTION & MAINTENANCE:

- INSPECT INSULATOR BODY FOR DAMAGE.
- INSPECT INSULATOR BODY FOR DAMAGE.
- INSPECT INSULATOR BODY FOR DAMAGE.
- INSPECT INSULATOR BODY FOR DAMAGE.

NOTES:

- INSPECT INSULATOR BODY FOR DAMAGE.
- INSPECT INSULATOR BODY FOR DAMAGE.
- INSPECT INSULATOR BODY FOR DAMAGE.
- INSPECT INSULATOR BODY FOR DAMAGE.

SC-740 6" INSPECTION PORT DETAIL

CONCRETE COLLAR

PAVEMENT

CONCRETE SLAB 8" (200 mm) MIN THICKNESS

FLEXSTORM CATCH IT PART# 6212NFX WITH USE OF OPEN GRATE

6" (150 mm) INSERTA TEE PART# 6IPSS1P INSERTA TEE TO BE CENTERED ON CORRUGATION CREST

SC-740 CHAMBER

CONCRETE COLLAR NOT REQUIRED FOR UNPAVED APPLICATIONS

12" (300 mm) NYLOPLAST INLINE DRAIN BODY W/ SOLID HINGED COVER OR GRATE PART# 2712AGSHP SOLID COVER 1259°COC GRATE 1290CGS

6" (150 mm) PVC SCH40 PIPE (BY OTHERS)

* THE PART# 2712AGSHPKIT CAN BE USED TO ORDER ALL NECESSARY COMPONENTS FOR A SOLID LID INSPECTION PORT INSTALLATION.

DATE	NOTES / REVISIONS	ZONING DIMENSIONAL REQUIREMENTS						OWNER OF RECORD -	APPLICANT -	STORMWATER DESIGN BY -	PROPOSED SITE PLAN - GROVE STREET			
NOTE	CONTACT DIG-SAFE PRIOR TO ANY EXCAVATIONS 1-888-344-7233	ZONE	FRONTAGE	AREA (SF.)	SETBACK FRONT	SETBACK SIDE	SETBACK REAR	DENSITY RECOVER	HEIGHT	MAX STORES	CITY BY-LAWS	INDEXED		
NOTE	SUBJECT TO EASEMENTS, RESTRICTIONS AND R.O.W.'S OF RECORD, IF ANY AND APPLICABLE.	BUS. A	N.R.	N.R.	25'	15'	25'	60%	40'	---	SECTION 275-58	PLAN OF LAND IN THE CITY OF CHICOPEE, MASSACHUSETTS HAMPDEN COUNTY - PREPARED FOR MUTT CUTS, LLC		
		EXISTING	85'	15,303	-	VACANT LOT	-	VACANT LOT	-	-	PARCEL C - GROVE ST.	DURKEE, WHITE, TOWNE AND CHAPDELAINE CIVIL ENGINEERS AND LAND SURVEYORS 356 FRONT STREET CHICOPEE, MASSACHUSETTS - 01013 PHONE (413) 592-5164		
		PROP.	85'	15,303	66'	17'	41'	56%	<40'	1	No. ___ GROVE ST	DRAWN BY EJC CHECKED BY APPROVED BY EJC SCANNED		
		NOTE - ALL ZONING DIMENSIONAL REQUIREMENTS SHOWN ON THIS PLAN SHALL BE VERIFIED & APPROVED BY THE LOCAL BUILDING DEPT. OR BY THE LOCAL ZONING ENFORCEMENT OFFICE. N.R. = NO REQUIREMENT. TOTAL IMPERVIOUS PROPOSED = 8,268 S.F.										DATE: 10/08/2016 PLOT: 11/22/2016 SCALE: 1" = 20'		
								OWNER OF RECORD -	INDEX -	INDEX CONTINUED -	DRAWING No. 82-4364 S.2016-115.1			
								OAK RIVER DEVELOPMENT DEED 19937, PAGE 33. PLAN 337, PAGE 39. PARCEL ID: 0147-00005. 169 GROVE STREET CHICOPEE, MA 01020	TO BE DETERMINED.	SHEET 1 = COVER SHEET 2 = NOTES SHEET 3 = EXISTING SHEET 4 = PROPOSED	SHEET 5 = DETAILS	FILE 2015-125-B Site Plan.S90		

- DETAIL SHEET -

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	ACCEPTED MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
A	BASE COURSE	ASPHALT	ASPHALT SHALL BE COMPACTED TO A MINIMUM OF 90% RELATIVE DENSITY PER ASTM D 1557.
B	CHAMBER BED	3/4" TO 1 1/2" CLEAN, WASHED, ANGULAR STONE	CHAMBER BED SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE DENSITY PER ASTM D 1557.
C	CHAMBER SURROUND	3/4" TO 1 1/2" CLEAN, WASHED, ANGULAR STONE	CHAMBER SURROUND SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE DENSITY PER ASTM D 1557.
D	FINISH GRADE	ASPHALT OR CONCRETE	FINISH GRADE SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE DENSITY PER ASTM D 1557.

NOTES:

- BASE COURSE SHALL CONFORM TO THE REQUIREMENTS OF ASTM D 1557.
- CHAMBER BED SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE DENSITY PER ASTM D 1557.
- CHAMBER SURROUND SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE DENSITY PER ASTM D 1557.
- FINISH GRADE SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE DENSITY PER ASTM D 1557.

SC-740 INSPECTOR ROW DETAIL

SC-740 6" INSPECTION PORT DETAIL

SC-740 TECHNICAL SPECIFICATION

NTS

ACCEPTS 4" (100 mm) SCH 40 PVC PIPE FOR INSPECTION PORT. FOR PIPE SIZES LARGER THAN 4" (100 mm) UP TO 10" (250 mm) USE INSERTA TEE CONNECTION CENTERED ON A CHAMBER CREST CORRUGATION.

NOMINAL CHAMBER SPECIFICATIONS:

SIZE (W X H X INSTALLED LENGTH)	CHAMBER STORAGE	MINIMUM UNOBTAINED STORAGE	WEIGHT
51.9" X 30.0" X 25.4" (1299 mm X 762 mm X 2189 mm)	45.9 CUBIC FEET (1.30 m³)	74.9 CUBIC FEET (2.12 m³)	75.0 lb (33.6 kg)

*ASSUMED 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS.

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B" STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

PART #	STUB	A	B	C
SC740PE007 / SC740PE007PC	0" (150 mm)	10.9" (277 mm)	16.5" (419 mm)	0.5" (13 mm)
SC740PE008 / SC740PE008PC	0" (150 mm)	10.9" (277 mm)	16.5" (419 mm)	0.5" (13 mm)
SC740PE009 / SC740PE009PC	0" (150 mm)	10.9" (277 mm)	16.5" (419 mm)	0.5" (13 mm)
SC740PE010 / SC740PE010PC	0" (150 mm)	10.9" (277 mm)	16.5" (419 mm)	0.5" (13 mm)
SC740PE011 / SC740PE011PC	0" (150 mm)	10.9" (277 mm)	16.5" (419 mm)	0.5" (13 mm)
SC740PE012 / SC740PE012PC	0" (150 mm)	10.9" (277 mm)	16.5" (419 mm)	0.5" (13 mm)
SC740PE013 / SC740PE013PC	0" (150 mm)	10.9" (277 mm)	16.5" (419 mm)	0.5" (13 mm)
SC740PE014 / SC740PE014PC	0" (150 mm)	10.9" (277 mm)	16.5" (419 mm)	0.5" (13 mm)
SC740PE015 / SC740PE015PC	0" (150 mm)	10.9" (277 mm)	16.5" (419 mm)	0.5" (13 mm)
SC740PE016 / SC740PE016PC	0" (150 mm)	10.9" (277 mm)	16.5" (419 mm)	0.5" (13 mm)
SC740PE017 / SC740PE017PC	0" (150 mm)	10.9" (277 mm)	16.5" (419 mm)	0.5" (13 mm)
SC740PE018 / SC740PE018PC	0" (150 mm)	10.9" (277 mm)	16.5" (419 mm)	0.5" (13 mm)
SC740PE019 / SC740PE019PC	0" (150 mm)	10.9" (277 mm)	16.5" (419 mm)	0.5" (13 mm)
SC740PE020 / SC740PE020PC	0" (150 mm)	10.9" (277 mm)	16.5" (419 mm)	0.5" (13 mm)

ALL STUBS, EXCEPT FOR THE SC740PE020 ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-855-932-2634.

*FOR THE SC740PE020 THE 24" (609 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.76" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING GITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL.

NOTE: INJECTION MOLDED FITTINGS ARE AVAILABLE IN TEES, WYES, REDUCERS, 45° BENDS AND BELULL COUPLERS. WATER TIGHT (WT) JOINTS SHOWN. SOIL-TIGHT (ST) FITTINGS ARE ALSO AVAILABLE.

SC-740 INSPECTOR ROW DETAIL

SC-740 6" INSPECTION PORT DETAIL

INSPECTION & MAINTENANCE

- INSPECTOR ROW DETAIL
- SC-740 6" INSPECTION PORT DETAIL

NOTES:

- INSPECTOR ROW DETAIL
- SC-740 6" INSPECTION PORT DETAIL

CONCRETE COLLAR

PAVEMENT

CONCRETE SLAB 8" (200 mm) MIN THICKNESS

FLEXSTORM CATCH IT PART# 6212NVFX WITH USE OF OPEN GRATE

6" (150 mm) INSERTA TEE INSERTA TEE TO BE CENTERED ON CORRUGATION CREST

SC-740 CHAMBER

CONCRETE COLLAR NOT REQUIRED FOR UNPAVED APPLICATIONS

12" (300 mm) NYLOPLAST INLINE DRAIN BODY W/ SOLID HINGED COVER OR GRATE PART# 272ACGRNIP SOLID COVER 1259CC* GRATE 1259CCS

6" (150 mm) PVC SCH40 PIPE (BY OTHERS)

*THE PART# 2712AGBPKIT CAN BE USED TO ORDER ALL NECESSARY COMPONENTS FOR A SOLID LID INSPECTION PORT INSTALLATION.

SC-740 6" INSPECTION PORT DETAIL

NTS

CONCRETE COLLAR

PAVEMENT

CONCRETE SLAB 8" (200 mm) MIN THICKNESS

FLEXSTORM CATCH IT PART# 6212NVFX WITH USE OF OPEN GRATE

6" (150 mm) INSERTA TEE INSERTA TEE TO BE CENTERED ON CORRUGATION CREST

SC-740 CHAMBER

CONCRETE COLLAR NOT REQUIRED FOR UNPAVED APPLICATIONS

12" (300 mm) NYLOPLAST INLINE DRAIN BODY W/ SOLID HINGED COVER OR GRATE PART# 272ACGRNIP SOLID COVER 1259CC* GRATE 1259CCS

6" (150 mm) PVC SCH40 PIPE (BY OTHERS)

*THE PART# 2712AGBPKIT CAN BE USED TO ORDER ALL NECESSARY COMPONENTS FOR A SOLID LID INSPECTION PORT INSTALLATION.

DATE	NOTES / REVISIONS	ZONING DIMENSIONAL REQUIREMENTS						OWNER OF RECORD -	APPLICANT -	STORMWATER DESIGN BY -	PROPOSED SITE PLAN - GROVE STREET						
NOTE	CONTACT DIG-SAFE PRIOR TO ANY EXCAVATIONS 1-888-344-7233	ZONE	FRONTAGE	AREA (S.F.)	SETBACK FRONT	SETBACK SIDE	SETBACK REAR	DENSITY RECOVER	HEIGHT	MAX STORES	CITY BY-LAWS	OAK RIVER DEVELOPMENT DEED 19937, PAGE 33. PLAN 337, PAGE 39. PARCEL ID: 0147-00005. 169 GROVE STREET CHICOPEE, MA 01020	MUTT CUTS, LLC 63 1/2 MAIN STREET P.O. BOX 10 LORI A. JERUSIK PHONE (413) 594-8144	GARY P. WEINER, P.E. 53 MILL POND ROAD HAMPDEN, MA 01036 PHONE (413) 374-4467	INDEXED		
NOTE	SUBJECT TO EASEMENTS, RESTRICTIONS AND R.O.W.'S OF RECORD, IF ANY AND APPLICABLE.	BUS. A	NR.	NR.	25'	15'	25'	60%	40'	---	SECTION 275-58	CONTRACTOR - TO BE DETERMINED.	INDEX - SHEET 1 = COVER SHEET 2 = NOTES SHEET 3 = EXISTING SHEET 4 = PROPOSED	STORMWATER DESIGN BY - GARY P. WEINER, P.E. 53 MILL POND ROAD HAMPDEN, MA 01036 PHONE (413) 374-4467	PROPOSED SITE PLAN - GROVE STREET PLAN OF LAND IN THE CITY OF CHICOPEE, MASSACHUSETTS HAMPDEN COUNTY - PREPARED FOR MUTT CUTS, LLC		
		EXISTING	85'	15,303	-	VACANT LOT	-	VACANT LOT	-	-	PARCEL C - GROVE ST.	CONTRACTOR - TO BE DETERMINED.	INDEX - SHEET 1 = COVER SHEET 2 = NOTES SHEET 3 = EXISTING SHEET 4 = PROPOSED	STORMWATER DESIGN BY - GARY P. WEINER, P.E. 53 MILL POND ROAD HAMPDEN, MA 01036 PHONE (413) 374-4467	DURKEE, WHITE, TOWNE AND CHAPDELAIN CIVIL ENGINEERS AND LAND SURVEYORS 356 FRONT STREET CHICOPEE, MASSACHUSETTS - 01013 PHONE (413) 592-5164		
		PROP.	85'	15,303	66'	17'	41'	56%	<40'	1	No - GROVE ST	CONTRACTOR - TO BE DETERMINED.	INDEX - SHEET 1 = COVER SHEET 2 = NOTES SHEET 3 = EXISTING SHEET 4 = PROPOSED	STORMWATER DESIGN BY - GARY P. WEINER, P.E. 53 MILL POND ROAD HAMPDEN, MA 01036 PHONE (413) 374-4467	DRAWN BY EJC CHECKED BY EJC APPROVED BY EJC SCANNED		
		NOTE - ALL ZONING DIMENSIONAL REQUIREMENTS SHOWN ON THIS PLAN SHALL BE VERIFIED & APPROVED BY THE LOCAL BUILDING DEPT. OR BY THE LOCAL ZONING ENFORCEMENT OFFICE. NR. = NO REQUIREMENT. TOTAL IMPERVIOUS PROPOSED = 8,268 S.F.										DATE: 10/08/2016 PLOT 11/22/2016 SCALE 1" = 20'			DRAWING No. 82-4364 S.2016-115.1		



MORTON BUILDINGS GENERAL SPECIFICATIONS

LAMINATED COLUMNS - NO. 1 OR BETTER SOUTHERN YELLOW PINE NAIL LAMINATED 3 MEMBER S4S COLUMNS NAILED 8" O.C. STAGGERED ON EACH SIDE WITH 4" NAILS.

MFS PRE-CAST CONCRETE COLUMN - MORTON BUILDINGS FOUNDATION SYSTEM IS A PRE-ENGINEERED, 10,000 PSI, STEEL REINFORCED COLUMN FOR BELOW GROUND INSTALLATION, DESIGNED TO BE MECHANICALLY FASTENED TO ABOVE GROUND NAIL LAMINATED COLUMNS. THE SYSTEM IS DESIGNED TO RESIST BOTH AXIAL AND BENDING FORCES.

FOOTINGS AND ANCHORAGE - COLUMN HOLES ARE DUG A MINIMUM DEPTH OF 4'-0" BELOW GRADE (SEE PLANS FOR DIAMETER AND DEPTH). MFS PRE-CAST CONCRETE COLUMNS ARE PLACED IN THE HOLE. CONCRETE (MINIMUM COMPRESSIVE STRENGTH 2500 PSI) IS POURED IN PLACE TO THE SPECIFIED THICKNESS (SEE PLANS FOR REQUIRED THICKNESS ABOVE AND BELOW THE COLUMN). THE COLUMN IS THEN BACKFILLED WITH SOIL AND COMPACTED AT 8" INTERVALS OR BACKFILLED WITH CONCRETE (SEE PLANS).

TREATED LUMBER -- PRESSURE PRESERVATIVE TREATED LUMBER OTHER THAN LAMINATED COLUMNS ARE NO. 1 OR BETTER SOUTHERN YELLOW PINE AND CENTER MATCHED OR NOTCHED AND GROOVED OR S4S. PRESSURE TREATMENT TO GROUND CONTACT RETENTION WITH PRESERVATIVE TREATMENT COMPLYING WITH USE CATEGORY UC4B (AWPA OR ICC-ES) AND IN COMPLIANCE WITH USEPA GUIDELINES AND STANDARDS.

FRAMING LUMBER - SIDING NAILERS ARE 2x4 S4S OR 2x6 SPF NO. 2 OR BETTER SPACED APPROXIMATELY 36" O.C. WITH ALL JOINTS STAGGERED AT ATTACHMENT TO COLUMNS. ROOF PURLINS ARE 2x4 S4S NO. 2 OR BETTER ON EDGE SPACED APPROXIMATELY 24" O.C. ALL OTHER FRAMING LUMBER IS NO. 2 OR BETTER.

ROOF TRUSSES - FACTORY ASSEMBLED WITH 18 OR 20 GAUGE GALVANIZED STEEL TRUSS PLATES AS REQUIRED AND KILN DRIED LUMBER AS SPECIFIED, IN-PLANT QUALITY CONTROL INSPECTION IS CONDUCTED UNDER THE AUSPICES OF THE TPI INSPECTION BUREAU. TRUSSES ARE DESIGNED IN ACCORDANCE WITH CURRENT STANDARDS AND SPECIFICATIONS FOR THE STATED LOADING.

SIDING & ROOFING PANELS (FLUOROFLEX 1000™) - 0.019" MIN., G90 GALVANIZED OR AZ55 GALVALUME STEEL WITH AN ADDITIONAL BAKED-ON 70% PVDF FINISH WITH A NOMINAL 1 MIL. PAINT THICKNESS ON EXTERIOR.

TRIM - DIE-FORMED TRIM OF 0.017" MIN., G90 GALVANIZED OR AZ55 GALVALUME STEEL ON GABLES, RIDGES, CORNERS, BASE WINDOWS, AND DOORS WITH SAME FINISH AS ROOFING OR SIDING PANELS.

GUTTERS - 5" K-STYLE .030 HIGH TENSILE ALUMINUM GUTTER, 70% PVDF FINISH TO MATCH TRIM, ON BOTH SIDES OF THE BUILDING.
2x4F1F1 02/12

SHEET INDEX	
SHEET#	DESCRIPTION
G1 OF G1	SPECIFICATIONS & SHEET INDEX
A1 OF A4	BUILDING LOCATION PLAN & SPECIFICATIONS
A2 OF A4	INTERIOR PLAN
A3 OF A4	ACCESSIBILITY REQUIREMENTS
A4 OF A4	ELEVATIONS
S1 OF S5	COLUMN PLAN
S2 OF S5	TRUSS/BRACING PLAN, DETAILS A & B
S3 OF S5	TRUSS DRAWING, PURLIN LAYOUT, PURLIN DETAILS
S4 OF S5	SIDEWALL SECTION A, DETAILS
S5 OF S5	ENDWALL SECTION B, WINDOW HEADER SECTION C

CURRENT LUMBER SPECIFICATIONS (06-01-2013)		
SIZE	DESCRIPTION	BENDING VALUE F _b
2x4	NO. 2 SPF	1313 PSI
2x4	NO. 1 SYP	1500 PSI
2x4	2100f MSR SPF	2100 PSI
2x6	NO. 2 SPF	1138 PSI
2x6	NO. 1 SYP	1350 PSI
2x6	2100f MSR SPF	2100 PSI
2x6	2400 MSR SYP	2400 PSI
2x8	NO. 1 SYP	1250 PSI
2x8	2400 MSR SYP	2400 PSI
2x10	NO. 1 SYP	1050 PSI
2x10	2400 MSR SYP	2400 PSI
2x12	NO. 1 SYP	1000 PSI
2x12	2250f MSR SYP	2250 PSI
1 1/2"x16"	LAMINATED VENEER LUMBER	2800 PSI
3 1/2"x15"	GLU-LAM	1450 PSI
5 1/4"x16 1/2"	GLU-LAM	2400 PSI
5 1/4"x19 1/2"	GLU-LAM	2400 PSI

BUILDING DESIGN CRITERIA	
USE GROUP	B
CONSTRUCTION TYPE	V8
BUILDING AREA	2160 SQ. FT.
ROOF SNOW LOAD *	31 PSF
GROUND SNOW LOAD	35 PSF
WIND SPEED (V _{3s})	95 MPH

*ROOF SNOW LOAD CALCULATIONS

$$P_f = 0.7 \times C_e \times I \times P_g \times C_i$$

$$C_e = \text{SNOW EXPOSURE FACTOR} = 1.0$$

$$I = \text{IMPORTANCE FACTOR} = 1.0$$

$$P_g = \text{GROUND SNOW LOAD} = 35 \text{ PSF}$$

$$C_i = \text{THERMAL FACTOR} = 1.1$$

$$P_f = 0.7 \times 1.0 \times 1.0 \times 35 \times 1.1 = 26.95 \text{ PSF}$$

$$P_{fmin} = 35 \text{ PSF}$$

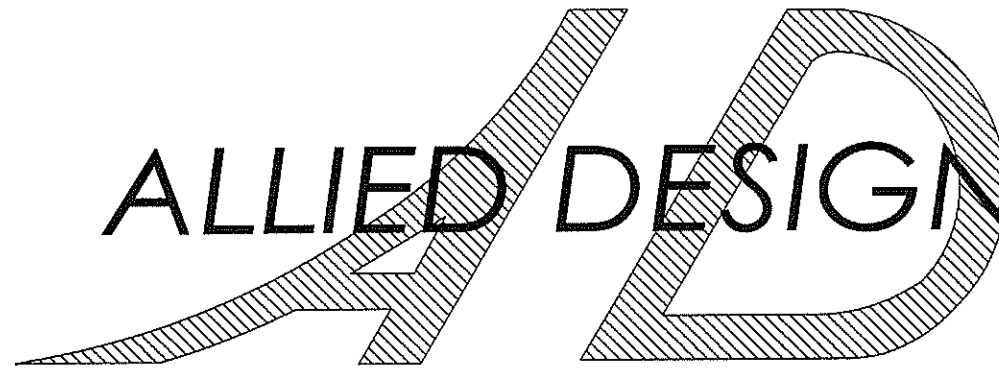
$$P_s = P_f \times C_s$$

$$C_s = \text{ROOF SLOPE FACTOR} = 0.86$$

$$P_s = 35 \times 0.86 = 30.10 \text{ PSF}$$

DESIGN AND EXPLANATORY NOTES

- ALL PLOT PLANS AND RELATED DETAILS SHALL BE PROVIDED BY OWNER UNLESS INCORPORATED AS PART OF THESE DRAWINGS.
- MORTON BUILDINGS GENERAL SPECIFICATIONS APPLY UNLESS INDICATED DIFFERENTLY ON SPECIFIC JOB DRAWINGS OR SUPPLEMENTAL INFORMATION.
- NO ONE MAY ALTER ANY ARCHITECTURAL OR ENGINEERING ITEM UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED / REGISTERED ARCHITECT OR LICENSED / REGISTERED ENGINEER.
- ◆ THE PRECEDING SYMBOL IDENTIFIES ITEMS THROUGHOUT THE PLANS THAT ARE NOT PROVIDED BY MORTON BUILDINGS, INC. OR MORTON BUILDINGS' SUBCONTRACTORS AND ARE THE OWNER'S RESPONSIBILITY.



OFFICE:
WESTFIELD, MA
JOB NO.
115-064715

LORI JERUSIK
CHICOPEE, MA

ALLIED DESIGN ARCHITECTURAL & ENGINEERING GROUP, P.C.
100 S. PERSHING P.O. BOX 110 MORTON, IL 61550
PHONE NUMBER: 309-263-4105

DRAWN BY:	POLHEMUS
DATE:	11/26/2016
CHECKED BY:	B.HUGHEY
DATE:	11/30/2016
REVISED DATE:	---
REVISED DATE:	---
REVISED DATE:	---
REVISED DATE:	---

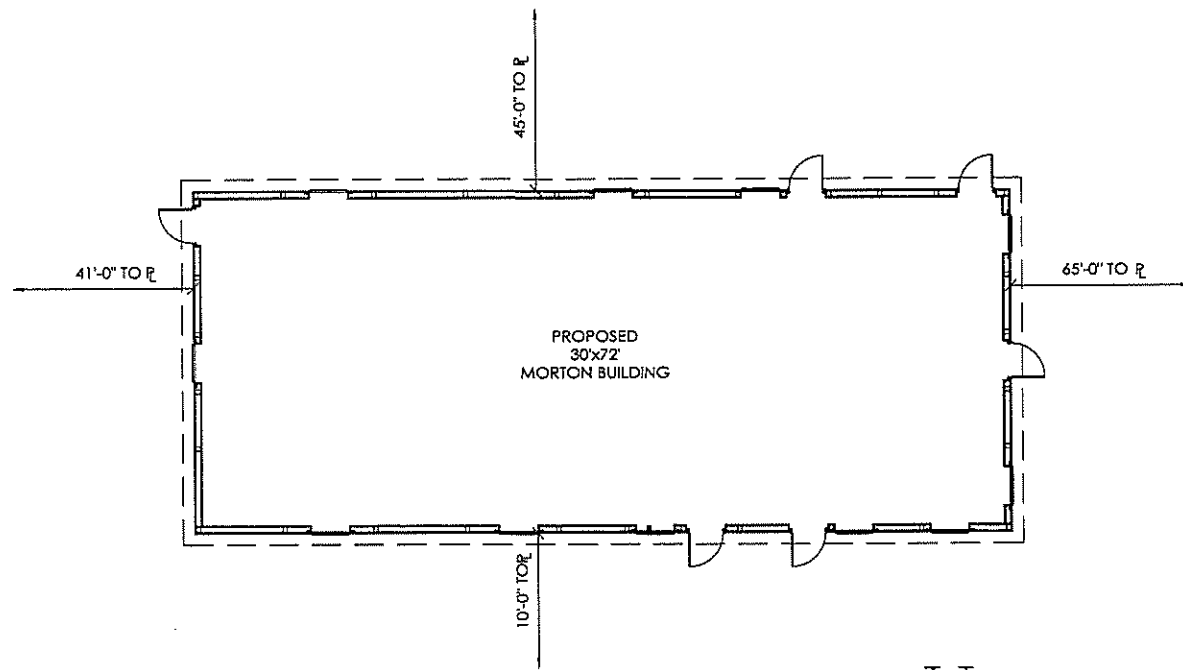
I HEREBY CERTIFY THAT THE STRUCTURAL DESIGN FOR THIS BUILDING WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED/REGISTERED PROFESSIONAL ENGINEER.

Michael L. McCormick
MICHAEL L. MCCORMICK, P.E.
mimccormick@alieddesign.com
DATE: 12/16/16
LICENSE# 41121
EXP. DATE: 6-30-18

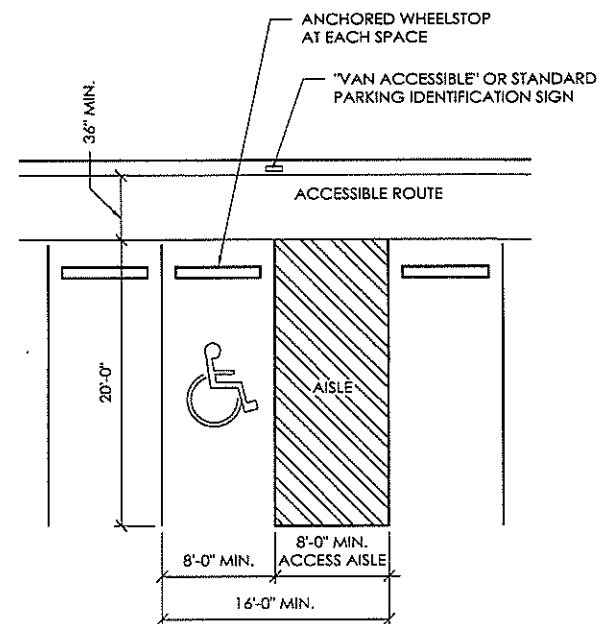
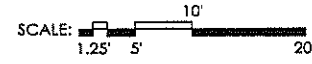
I HEREBY CERTIFY THAT THE ARCHITECTURAL DESIGN FOR THIS BUILDING WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED / REGISTERED ARCHITECT.

Donald N. Tippet
DONALD N. TIPPET, ARCHITECT
don.tippet@alieddesign.com
DATE: 12/16/16
LICENSE# 30293
EXP. DATE: 8-31-17

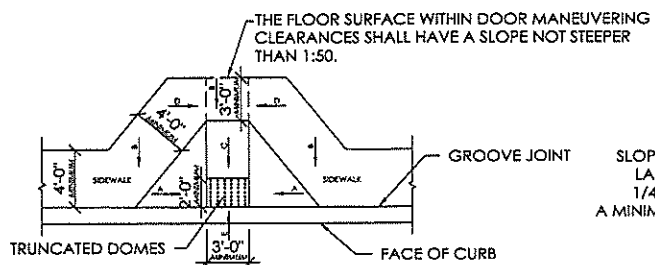
SCALE: AS NOTED
SHEET NO.
G1 of G1



BUILDING LOCATION PLAN

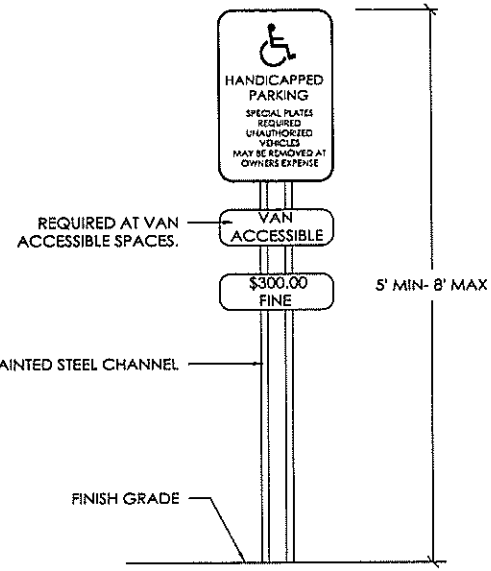


ACCESSIBLE PARKING SPACE DETAIL
SEE NOTE #15

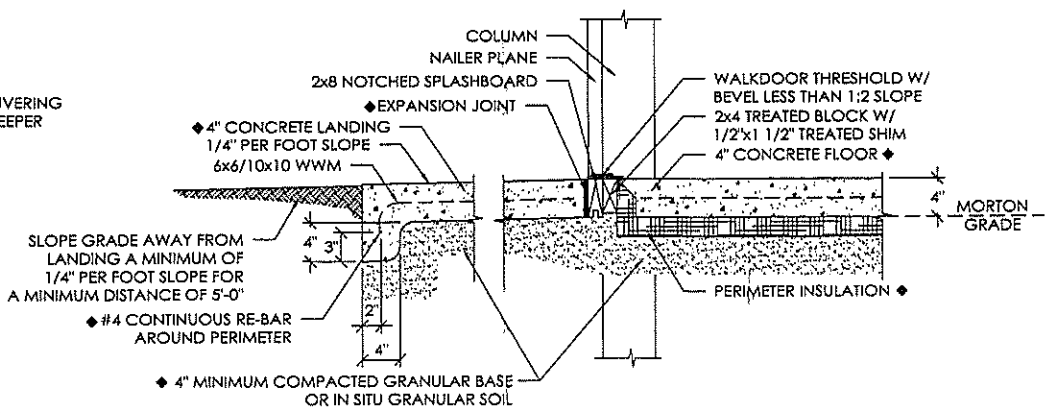


CURB RAMP DETAIL

SLOPE "A"	1:10
SLOPE "B"	1/4"/FT
SLOPE "C"	1:12
SLOPE "D"	1/2"/FT
SLOPE "E"	1:20



ACCESSIBLE PARKING SIGN



LANDING & THRESHOLD DETAIL

SCALE: 1" = 1'-0" SEE NOTE #16

DESIGN AND EXPLANATORY NOTES

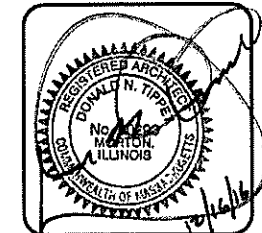
- SITE PLAN ACCESSIBILITY**
- THE MINIMUM CLEAR WIDTH OF AN ACCESSIBLE ROUTE SHALL BE 36 INCHES EXCEPT AT DOORS.
 - AN ACCESSIBLE ROUTES WALKING SURFACES, OTHER THAN RAMPS AND CURB RAMPS, SHALL BE NO GREATER THAN 1:20. WALKING SURFACE CROSS SLOPES OF AN ACCESSIBLE ROUTE SHALL NOT EXCEED 1:48.
 - THE MAXIMUM SLOPE OF A RAMP OR CURB RAMP SHALL BE 1:12 OR LESS. THE MAXIMUM RISE FOR ANY RUN SHALL BE 30 INCHES.
 - THE MINIMUM CLEAR WIDTH OF A RAMP 30 FEET OR LESS SHALL BE 36 INCHES. RAMPS MORE THAN 30 FEET IN LENGTH SHALL HAVE A MINIMUM CLEAR WIDTH OF 44 INCHES.
 - RAMPS SHALL HAVE LANDINGS AT BOTTOM AND TOP OF EACH RAMP AND EACH RAMP RUN WITH SLOPES NOT STEEPER THAN 1:48.
 - LANDINGS SHALL BE AT LEAST AS WIDE AS THE WIDTH OF THE RAMP RUN LEADING TO IT AND SHALL BE A MINIMUM OF 60 INCHES IN LENGTH. IF RAMPS CHANGE DIRECTION AT LANDINGS, THE MINIMUM LANDING SIZE SHALL BE 60 INCHES x 60 INCHES. CURB RAMPS SHALL HAVE A MINIMUM OF 36 INCHES CLEAR LENGTH.
 - IF A RAMP RUN HAS A RISE GREATER THAN 6 INCHES, THEN IT SHALL HAVE HAND RAILS ON BOTH SIDES.
 - CHANGES IN LEVEL UP TO 1/4 INCH MAY BE VERTICAL AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. CHANGES IN LEVEL GREATER THAN 1/2 INCH SHALL BE ACCOMPLISHED BY MEANS OF A RAMP.
 - THE MINIMUM WIDTH OF A CURB RAMP SHALL BE 36 INCHES, EXCLUSIVE OF FLARED SIDES.
 - FOR PURPOSE OF WARNING, THE FULL WIDTH AND DEPTH OF CURB RAMPS SHALL HAVE TRUNCATED DOMES WHICH SIGNIFICANTLY CONTRASTS WITH THAT OF ADJOINING PEDESTRIAN ROUTES. TRUNCATED DOMES SHALL BE LOCATED FOR A DISTANCE OF 24 INCHES IN DIRECTIONS OF TRAVEL.
 - IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, OR WHERE IT IS NOT PROTECTED BY HANDRAILS OR GUARDRAILS, IT SHALL HAVE FLARED SIDES; THE MAXIMUM SLOPE OF THE FLARE SHALL BE 1:10. CURB RAMPS WITH RETURNED CURBS MAY BE USED WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. THE MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20.
 - BUILT-UP CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES OR INTO SPACES THAT WOULD INTERFERE WITH PERSONS ENTERING OR EXITING PARKED OR STANDING VEHICLES.
 - CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES.
 - MARKED CROSSINGS THAT ARE RAISED TO THE SAME LEVEL AS THE ADJOINING SIDEWALK SHALL BE PRECEDED BY A 24 INCH DEEP AREA OF TRUNCATED DOMES EXTENDING THE FULL WIDTH OF THE MARKED CROSSING.
 - ACCESSIBLE PARKING SPACE:
 - ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:48 IN ALL DIRECTIONS.
 - LANDING & THRESHOLD:
 - ALL DOORS REQUIRED TO BE ACCESSIBLE SHALL BE PROVIDED WITH LEVER HANDLES OR PUSH/PULL HARDWARE.
 - ALL DETAILS SHALL CONFORM TO A117.1
 - LANDINGS SHALL BE HARD, FIRM AND SLIP RESISTANT SURFACES AND SHALL HAVE SLOPES OF LESS THAN 1:48 IN ALL DIRECTIONS.
 - DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
 - THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN ACCESSIBLE INTERIOR HINGED DOORS SHALL BE 5 LB/FT.
 - HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED 34 INCHES MINIMUM TO 48 INCHES MAXIMUM ABOVE THE FINISHED FLOOR.
 - CHANGES IN LEVEL OF 1/4 INCH HEIGHT SHALL BE PERMITTED TO BE VERTICAL.
 - CHANGES IN LEVEL GREATER THAN 1/4 INCH HEIGHT AND NOT MORE THAN 1/2 INCH MAXIMUM HIGH SHALL BE BEVELED TO A SLOPE NO STEEPER THAN 1:2.
 - SURFACE:
 - ALL ACCESSIBLE ROUTES / ACCESS ELEMENTS SHALL BE STABLE, FIRM AND SLIP RESISTANT.
 - ACCESSIBLE ROUTES SHALL NOT BE STEEPER THAN 1:20. CROSS SLOPES OF A WALKING SURFACE SHALL NOT BE STEEPER THAN 1:48.
 - FLOOR SURFACES OF A CLEAR FLOOR SPACE SHALL HAVE A SLOPE NOT STEEPER THAN 1:48.

OFFICE:
WESTFIELD, MA
JOB NO.
115-064715

LORI JERUSIK
CHICOPEE, MA

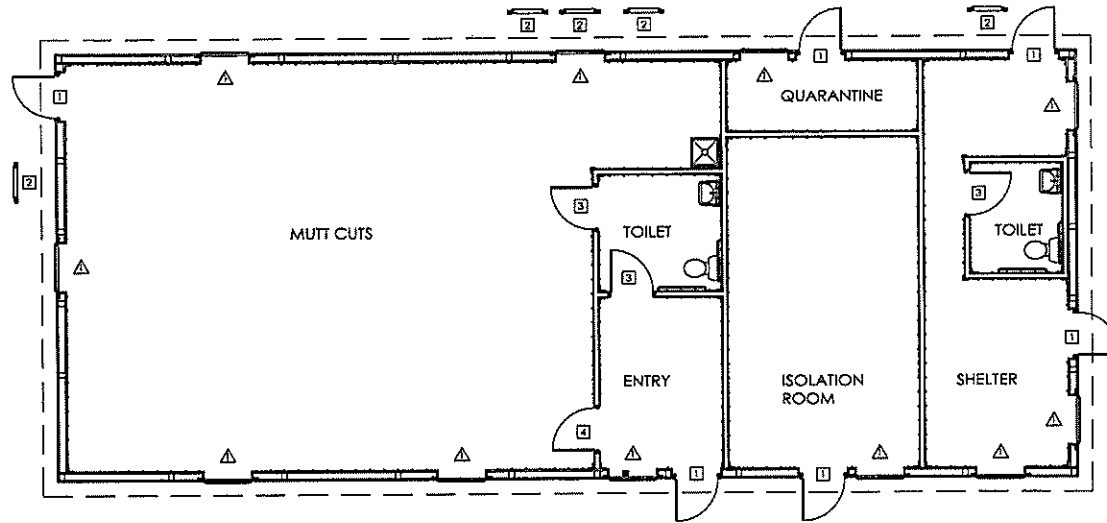
MA
ALLIED DESIGN ARCHITECTURAL & ENGINEERING GROUP, P.C.
PHONE NUMBER: 309-263-4105
100 S. PRESHING P.O. BOX 110 MORTON, IL 61550

DRAWN BY:	POLHEMUS
DATE:	11/26/2016
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SCALE: AS NOTED
SHEET NO.
A1 OF A4

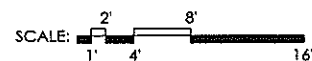
ROUGH OPENING SCHEDULE		
UNIT SYMBOL FROM LEGEND	WIDTH	HEIGHT
1	37 3/4"	81"
2	VERIFY	VERIFY
△	40 1/4"	48 1/4"



INTERIOR LAYOUT LEGEND

- - (6) 3068 MB910 9-LITE GLASS IN PLAIN FLAT LEAF WALKDOORS, OUT SWING, LEFT HINGE WITH CLOSER, LOCKSET
- ▣ - (5) 2'-0" x 3'-0" FRAMED OPENINGS (VERIFY LOCATIONS) ◆
- ▤ - (3) 3'-0" x 6'-8" INTERIOR WALKDOORS W/ PRIVACY LEVER LOCKSETS ◆
- ▥ - 3'-0" x 6'-8" INTERIOR WALKDOOR W/ LEVER HARDWARE ◆
- △ - (11) 3440 MB SINGLE HUNG WINDOWS

INTERIOR LAYOUT



DESIGN AND EXPLANATORY NOTES

FLOOR PLAN ACCESSIBILITY

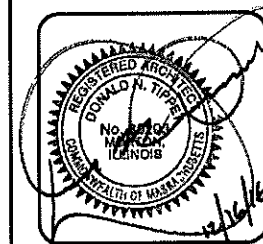
1. SINKS.
 - A. SINKS SHALL BE MOUNTED WITH RIM NO HIGHER THAN 34 INCHES ABOVE FINISHED FLOOR.
 - B. KNEE CLEARANCE AT LEAST 27 INCHES HIGH, 30 INCHES WIDE AND 17 INCHES DEEP SHALL BE PROVIDED UNDERNEATH SINKS.
 - C. SINKS SHALL BE A MAXIMUM OF 6-1/2 INCHES DEEP.
 - D. HOT WATER AND DRAIN PIPES EXPOSED UNDER SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT.
 - E. FAUCETS SHALL BE LEVER-OPERATED OR AUTOMATED.
 - F. A CLEAR FLOOR SPACE AT LEAST 30 INCHES WIDE BY 48 INCHES DEEP SHALL BE PROVIDED IN FRONT OF SINKS TO ALLOW FOR FORWARD APPROACH, WHEN FORWARD APPROACH IS REQUIRED, THE CLEAR FLOOR SPACE SHALL EXTEND A MAXIMUM OF 19 INCHES UNDERNEATH THE SURFACE.
2. DOORS.
 - A. DOOR HARDWARE THROUGHOUT BUILDING SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE, THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LB/FT.
3. DINING / WORK SURFACES.
 - A. THE TOP OF THE COUNTER, TABLE, OR WORK STATION RESERVED FOR HANDICAPPED PERSONS SHALL BE 28 TO 34 INCHES ABOVE THE FINISHED FLOOR HEIGHT WITH A MINIMUM WORK SURFACE OF 36 INCHES LONG FOR SIDE APPROACH OR 30 INCHES LONG FOR FRONT APPROACH; KNEE AND TOE CLEARANCE SHALL BE PROVIDED UNDER THE WORKING SURFACES.
 - B. FLOOR SURFACES WITHIN MANEUVERING CLEARANCES SHALL HAVE A SLOPE NOT STEEPER THAN 1:48.
4. SALES AND SERVICE COUNTERS.
 - A. PARALLEL APPROACH:
 - 1) A PORTION OF THE COUNTER SURFACE 36 INCHES MINIMUM IN LENGTH AND 36 INCHES MAXIMUM IN HEIGHT ABOVE THE FLOOR SHALL BE PROVIDED.
 - 2) WHERE THE COUNTER SURFACE IS LESS THAN 36 INCHES IN LENGTH, THE ENTIRE COUNTER SURFACE SHALL BE 36 INCHES MAXIMUM IN HEIGHT ABOVE THE FLOOR.
 - 3) A CLEAR FLOOR SPACE POSITIONED FOR A PARALLEL APPROACH ADJACENT TO THE ACCESSIBLE COUNTER SHALL BE PROVIDED.
 - B. FORWARD APPROACH:
 - 1) A PORTION OF THE COUNTER SURFACE 30 INCHES MINIMUM IN LENGTH AND 36 INCHES MAXIMUM IN HEIGHT ABOVE THE FLOOR SHALL BE PROVIDED.
 - 2) A CLEAR FLOOR SPACE POSITIONED FOR A FORWARD APPROACH TO THE ACCESSIBLE COUNTER SHALL BE PROVIDED.
 - 3) KNEE AND TOE CLEARANCE SHALL BE PROVIDED UNDER THE ACCESSIBLE COUNTER.
5. SIGNAGE.
 - A. SIGNAGE IS REQUIRED AT THE FOLLOWING LOCATIONS:
 - 1) AT ALL NON-ACCESSIBLE ENTRANCES INDICATING THE LOCATION OF THE ACCESSIBLE ENTRANCES.
 - 2) SIGNS STATING "EXIT" SHALL BE PROVIDED ADJACENT TO EACH DOOR THAT LEADS TO A CORRIDOR, STAIRWELL, OR TO THE EXTERIOR OF THE BUILDING.
 - 3) SIGNAGE SHOWING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE LOCATED AT ALL RESTROOMS.
 - B. ALL SIGNS SHALL INCLUDE TACTILE SIGNAGE INCLUDING ANY OPTIONAL INTERIOR AND EXTERIOR SIGNAGE IDENTIFYING PERMANENT ROOMS AND SPACES.
 - C. TACTILE AND BRAILLE SIGNAGE SHALL BE LOCATED 48 INCHES MINIMUM TO 60 INCHES MAXIMUM ABOVE THE FLOOR OR GROUND SURFACE, MEASURED TO THE BASE LINE OF THE HIGHEST TACTILE LETTER.
 - D. TACTILE SIGNAGE SHALL BE LOCATED AT THE LATCH SIDE OF A DOORWAY, AT DOUBLE DOORS SIGNAGE SHALL BE PROVIDED ON THE SIDE OF ANY INACTIVE LEAF. IF BOTH DOORS ARE ACTIVE THE SIGNAGE SHALL BE PLACED TO THE RIGHT SIDE OF THE DOORWAY. IF SPACE IS NOT AVAILABLE FOR SIGNAGE IN THESE LOCATIONS, SIGNAGE SHALL BE LOCATED ON THE NEAREST ADJACENT WALL TO THE AREA SPECIFIED.
 - E. A MINIMUM 18 INCHES X 18 INCHES CLEAR FLOOR AREA CENTERED ON THE TACTILE SIGNAGE SHALL BE PROVIDED BEYOND THE ARC OF THE DOORWAY. SIGNAGE SHALL BE ALLOWED ON THE PUSH SIDE OF DOORS WITH CLOSERS WITHOUT HOLD OPEN DEVICES.
 - F. NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.
 - G. STREET ADDRESS SHALL BE POSTED IN NOT LESS THAN 4 INCH HIGH LETTERS/NUMBERS (6 INCH RECOMMENDED) WITH A MINIMUM STROKE DEPTH OF 0.5 INCH ON THE BUILDING.
6. THRESHOLDS.
 - A. ALL DOORS REQUIRED TO BE ACCESSIBLE, SHALL BE PROVIDED WITH LEVER HANDLES OR PUSH/PULL HARDWARE.
 - B. ALL DETAILS SHALL CONFORM TO A117.1
 - C. ACCESSIBLE ROUTES SHALL HAVE SLOPES OF LESS THAN 1:20. CROSS SLOPES SHALL NOT EXCEED 1:48.
 - D. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
 - E. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN ACCESSIBLE INTERIOR HINGED DOORS SHALL BE 5 LB/FT.
 - F. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED 34 INCHES MINIMUM TO 48 INCHES MAXIMUM ABOVE THE FINISHED FLOOR.
 - G. CHANGES IN LEVEL OF 1/4 INCH HEIGHT SHALL BE PERMITTED TO BE VERTICAL.
 - H. CHANGES IN LEVEL GREATER THAN 1/4 INCH IN HEIGHT AND NOT MORE THAN 1/2 INCH MAXIMUM HIGH SHALL BE BEVELED TO A SLOPE NO STEEPER THAN 1:2.
7. SURFACES.
 - A. FLOOR SURFACE SHALL BE STABLE, FIRM AND SLIP RESISTANT.
 - B. FLOOR SURFACES OF A CLEAR FLOOR SPACE SHALL HAVE A SLOPE NOT STEEPER THAN 1:48.
8. EXTERIOR DOOR AND WINDOW LOCATIONS ARE TAKEN FROM THE EXTERIOR FACE OF THE MAILERS AND ARE TO THE CENTER OF THE DOOR AND WINDOW UNITS. VERIFY ALL DOOR, WINDOW, SKYLIGHT AND SIDELIGHT LOCATIONS WITH THE OWNER.
9. INTERIOR COMPONENTS THAT ARE PROVIDED BY MORTON BUILDINGS, INC. OR MORTON BUILDINGS, INC. SUBCONTRACTORS SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - A. INTERIOR DIMENSIONS ARE TAKEN FROM THE INSIDE EDGE OF THE INTERIOR STRIPPING.
 - B. INTERIOR STUDWALL DIMENSIONS ARE TAKEN FROM THE CENTERLINE OF THE STUDWALL.
 - C. STUDWALLS ARE TO BE 2x4s @ 16" O.C. UNLESS SPECIFIED OTHERWISE.

OFFICE:
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115-064715

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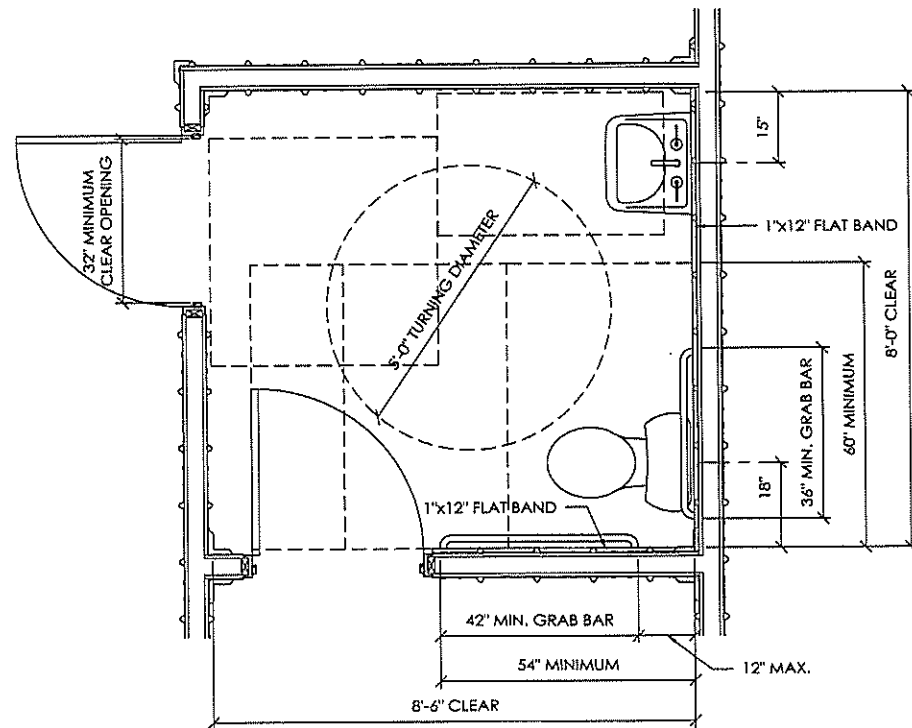
MA ALLIED DESIGN ARCHITECTURE & ENGINEERING GROUP, P.C.
100 S. PERSHING P.O. BOX 110 MORTON, IL 61550
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SCALE: AS NOTED
SHEET NO.
A2 of A4

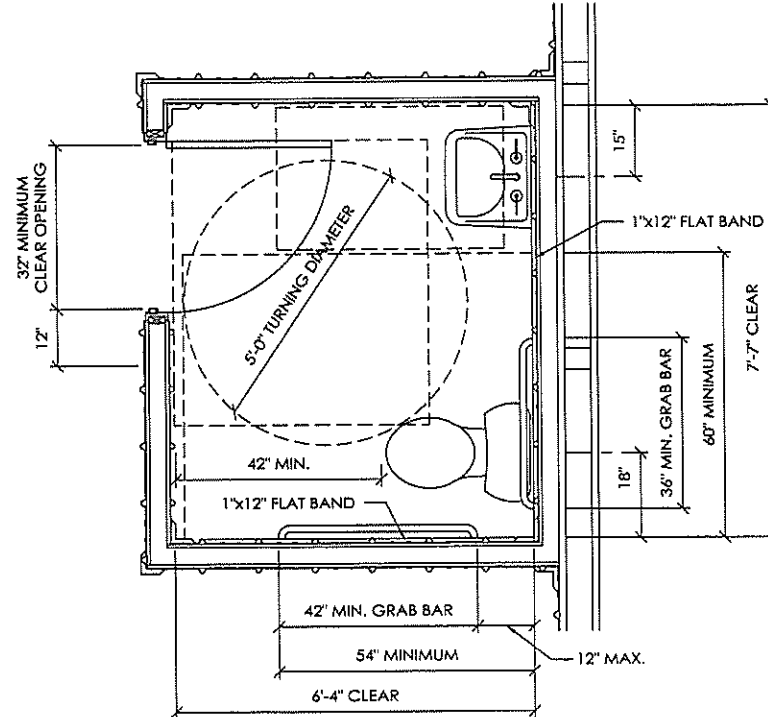
MASSACHUSETTS ACCESSIBILITY REQUIREMENTS



RESTROOM CLEARANCE LAYOUT

SCALE: 1/2" = 1'-0"

* NOTE:
BARRIER FREE RESTROOMS SHALL BE IDENTIFIED WITH INTERNATIONAL SYMBOL OF COMPLIANCE AND A TACTILE SIGN. THE SYMBOL OF COMPLIANCE SHALL BE LOCATED BETWEEN 60" & 96" AFF. THE TACTILE SIGN SHALL BE MOUNTED 60" AFF ADJACENT TO THE LATCH SIDE OF THE DOOR.

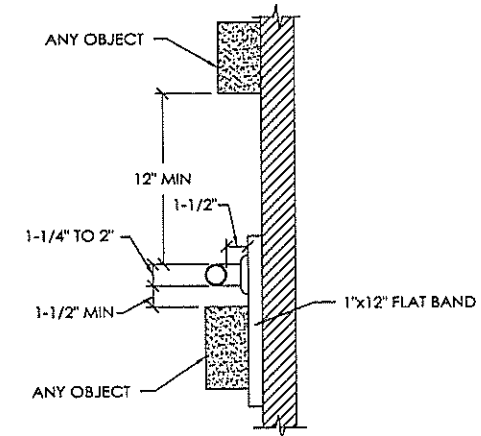


RESTROOM CLEARANCE LAYOUT

SCALE: 1/2" = 1'-0"

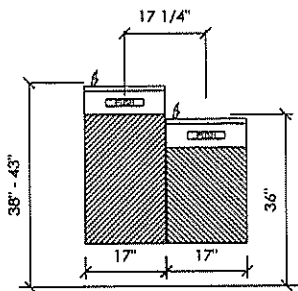
DESIGN AND EXPLANATORY NOTES

- RESTROOM CRITERIA
 - IMPERVIOUS SURFACE TO BE PROVIDED IN RESTROOMS WITHIN TWO FEET OF WATER CLOSETS AND URINALS TO A HEIGHT OF FOUR FEET FROM FLOOR. A SMOOTH, HARD, NONABSORBENT FLOOR SURFACE AND A 6 INCH SMOOTH, HARD, NONABSORBENT BASE TRIM TO BE PROVIDED THROUGHOUT ENTIRE RESTROOM.
 - BARRIER FREE RESTROOMS SHALL BE IDENTIFIED WITH INTERNATIONAL SYMBOL OF COMPLIANCE AND A TACTILE SIGN. THE SYMBOL OF COMPLIANCE SHALL BE LOCATED BETWEEN 48 INCHES AND 60 INCHES ABOVE FINISHED FLOOR. THE TACTILE SIGN SHALL BE MOUNTED 48 INCHES AND 60 INCHES ABOVE FINISHED FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.
- BOTTOM OF MIRROR AND SOAP DISPENSER SHALL BE AT SAME HEIGHT.
- FLUSH LEVER SHALL BE ON THE APPROACH SIDE OF THE WATER CLOSET.
- SPOUT SHALL PROVIDE A 4 INCH HIGH MINIMUM FLOW OF WATER.
- GRAB BARS SHALL HAVE A CIRCULAR CROSS SECTION WITH AN OUTSIDE DIAMETER OF 1 1/4" MINIMUM AND A 2" MAXIMUM.



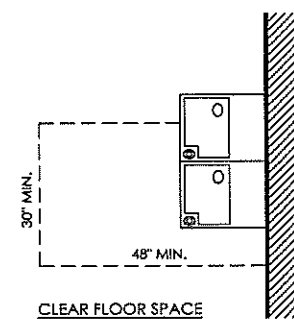
GRAB BAR CLEARANCES

SCALE: 1-1/2" = 1'-0"

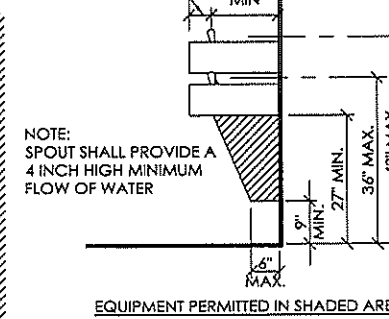


ACCESSIBLE DRINKING FOUNTAIN ELEVATIONS

SCALE: 1/2" = 1'-0"



CLEAR FLOOR SPACE

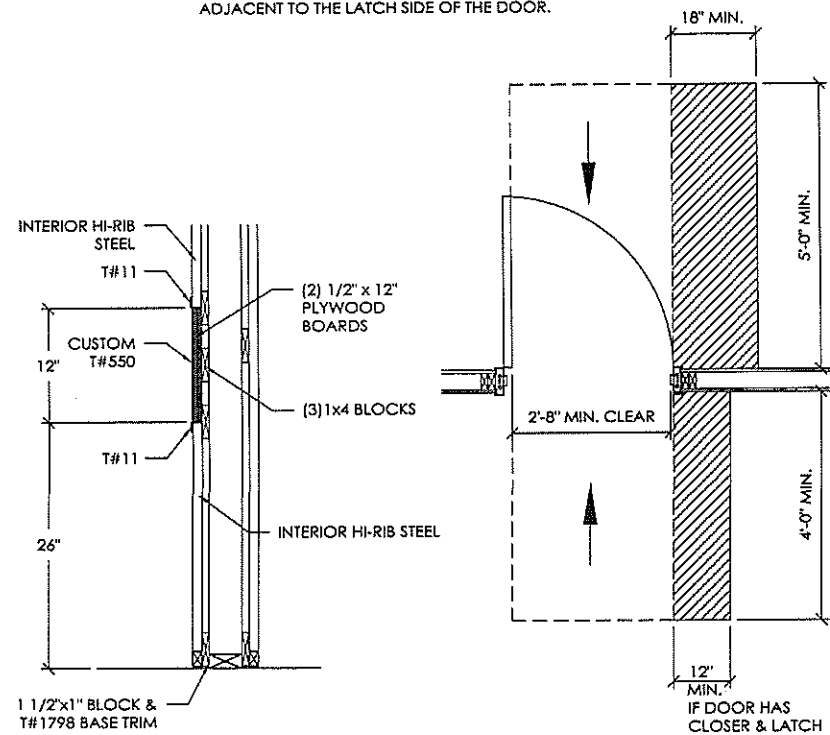


NOTE:
SPOUT SHALL PROVIDE A 4 INCH HIGH MINIMUM FLOW OF WATER

EQUIPMENT PERMITTED IN SHADED AREA

ACCESSIBLE DRINKING FOUNTAIN DETAILS

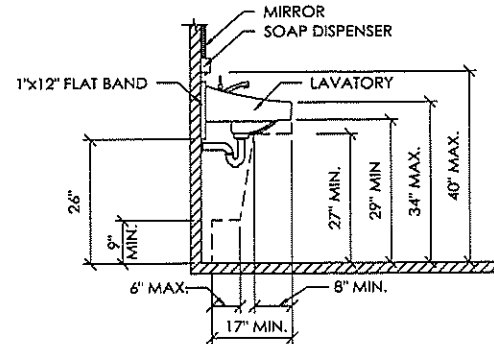
SCALE: 1/2" = 1'-0"



FLAT BAND DETAILS

SCALE: 1" = 1'-0"

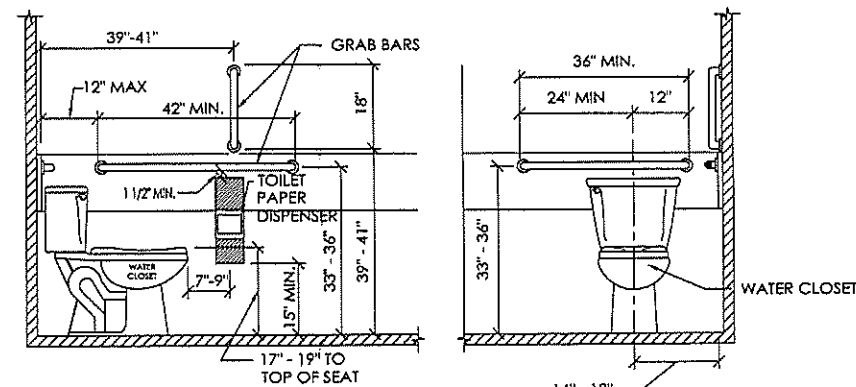
TYPICAL ACCESSIBILITY CLEARANCE DETAIL FOR FORWARD APPROACH



SIDE ELEVATION OF WALL-HUNG LAVATORY

SCALE: 1/2" = 1'-0"

SEE NOTE #2



SIDE ELEVATION OF WATER CLOSET

FRONT ELEVATION

ACCESSIBLE WATER CLOSET DETAILS

SCALE: 1/2" = 1'-0"

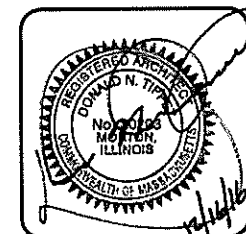
SEE NOTE #3

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CHICOPPEE, MA

MA ALLIED DESIGN ARCHITECTURAL & ENGINEERING GROUP, P.C.
100 S. PERSHING P.O. BOX 110 MORTON, IL 61550
PHONE NUMBER: 309-263-4105

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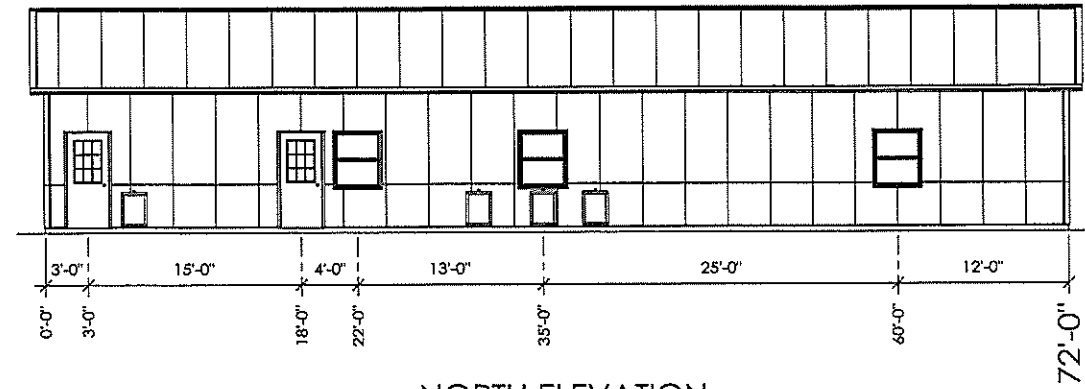


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SHEET NO.
A3 OF A4

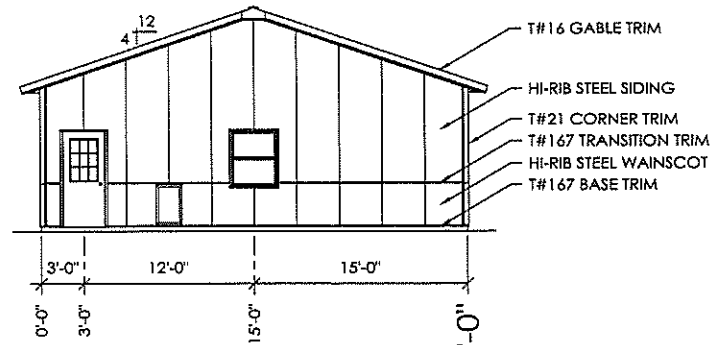
DESIGN AND EXPLANATORY NOTES

1.) EXTERIOR DOOR AND WINDOW LOCATIONS ARE TAKEN FROM THE EXTERIOR FACE OF THE NAILERS AND ARE TO THE CENTER OF THE DOOR AND WINDOW UNITS. VERIFY ALL DOOR, WINDOW, SKYLIGHT AND SIDELIGHT LOCATIONS WITH THE OWNER.

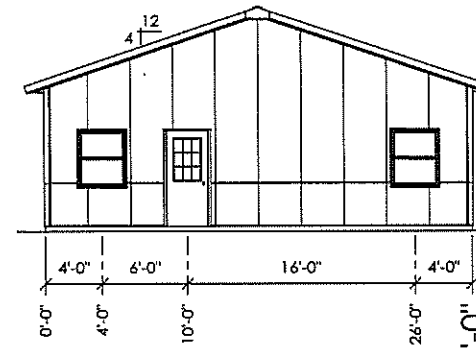
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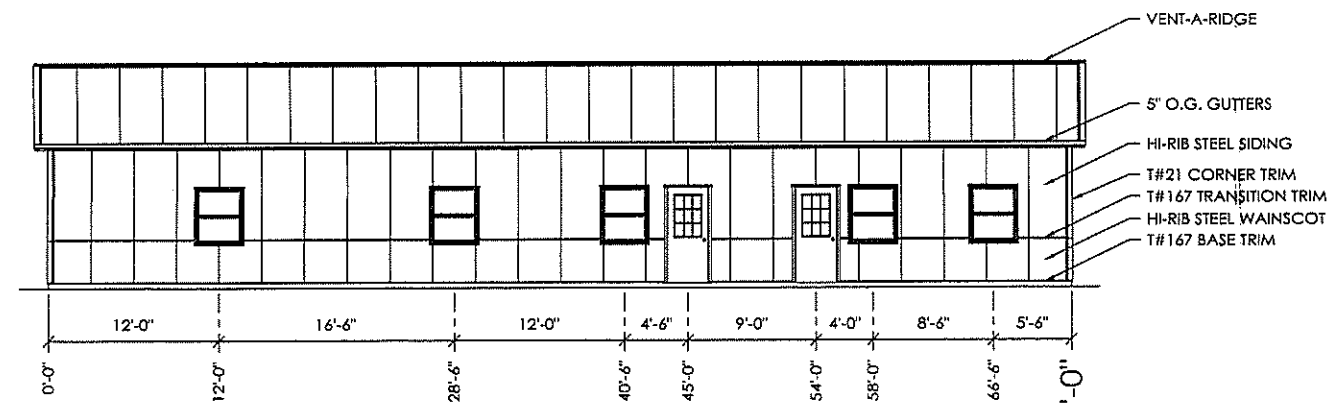
NORTH ELEVATION



WEST ELEVATION



EAST ELEVATION

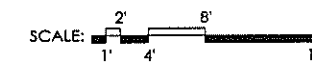
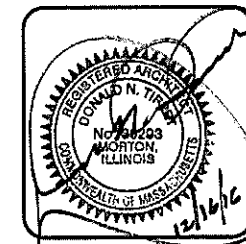


SOUTH ELEVATION

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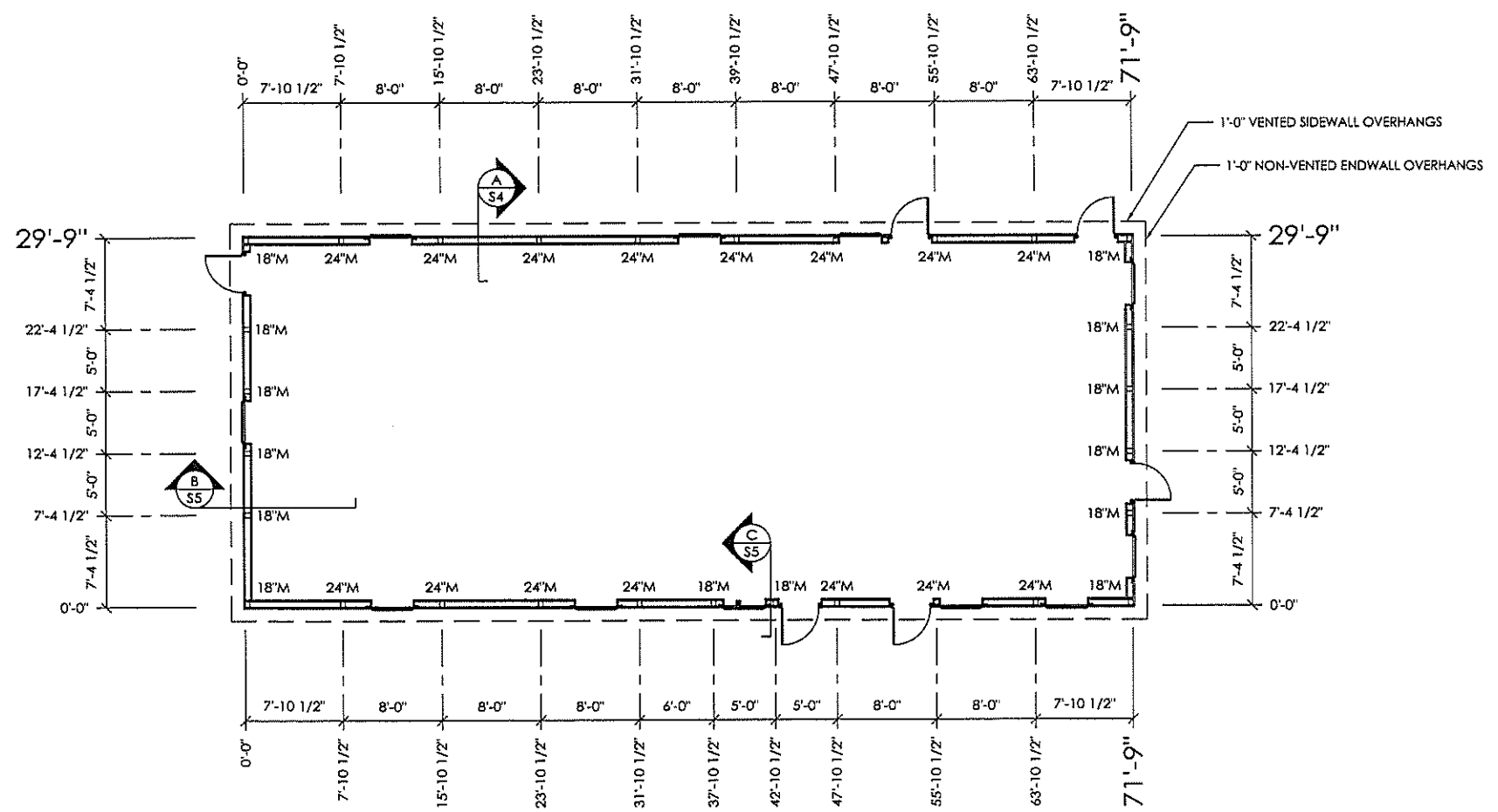
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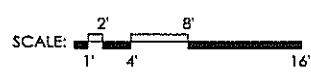
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COLUMN PLAN LEGEND

- - 3-2x6 LAMINATED COLUMN LOCATION
- - HEADERED TRUSS LOCATION
- 30x30 ATTIC ACCESS PANEL (VERIFY LOCATION)
- ALL STEEL FASTENED WITH STAINLESS STEEL SCREWS
- 18" M - 18" DIAMETER FOOTING WITH 4" TO BOTTOM OF 21" THICK CONCRETE PAD (2500 PSI MINIMUM), 20" BELOW BOTTOM OF PRECAST CONCRETE COLUMN AROUND EXPOSED REBAR CAGE AND 3/4"x1/4" THREADED ROD WITH AN ADDITIONAL MINIMUM 1" ABOVE BOTTOM OF PRECAST CONCRETE COLUMN. PLACE CONCRETE BELOW AND ABOVE BOTTOM OF LOWER COLUMN IN ONE OPERATION.
- 24" M - 24" DIAMETER FOOTING WITH 4" TO BOTTOM OF 21" THICK CONCRETE PAD (2500 PSI MINIMUM), 20" BELOW BOTTOM OF PRECAST CONCRETE COLUMN AROUND EXPOSED REBAR CAGE AND 3/4"x1/4" THREADED ROD WITH AN ADDITIONAL MINIMUM 1" ABOVE BOTTOM OF PRECAST CONCRETE COLUMN. PLACE CONCRETE BELOW AND ABOVE BOTTOM OF LOWER COLUMN IN ONE OPERATION.

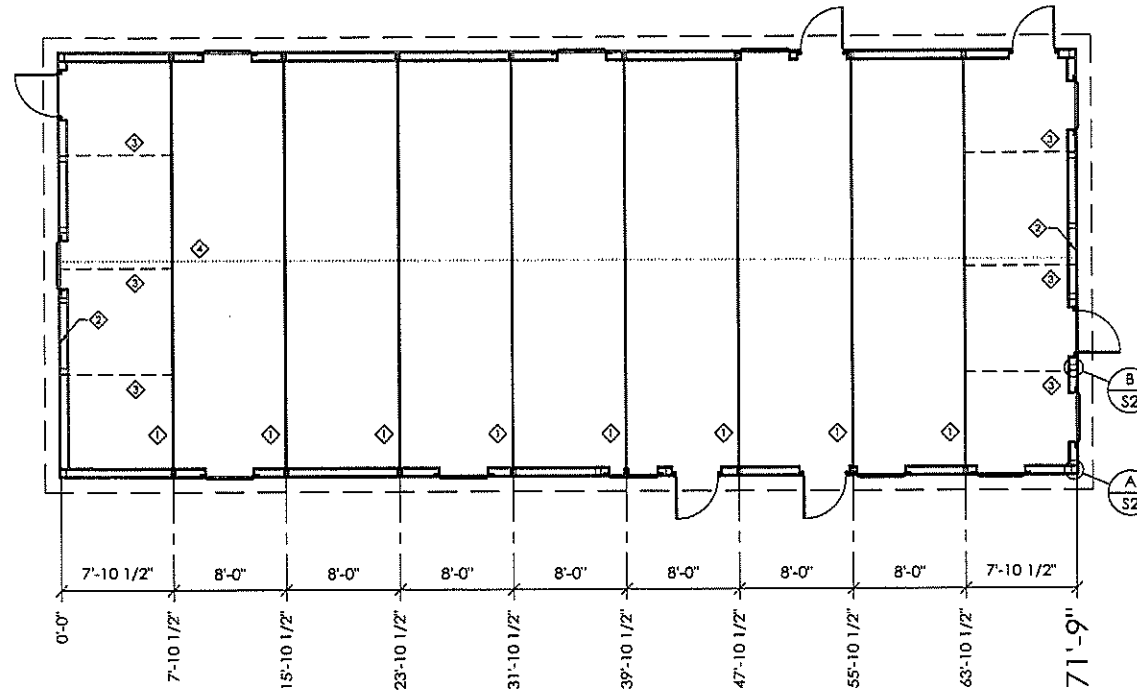
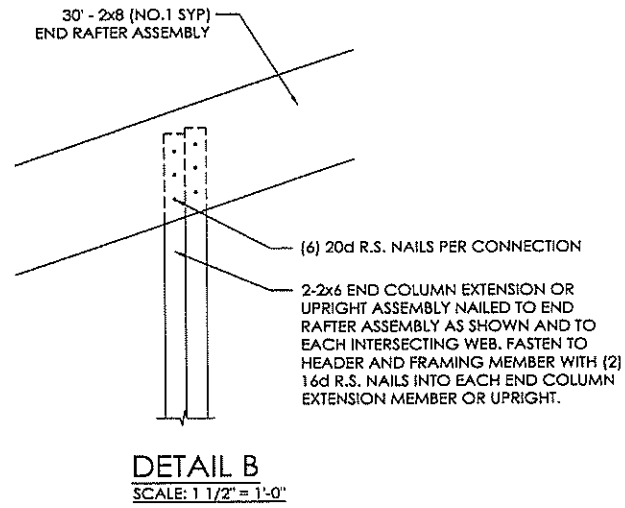
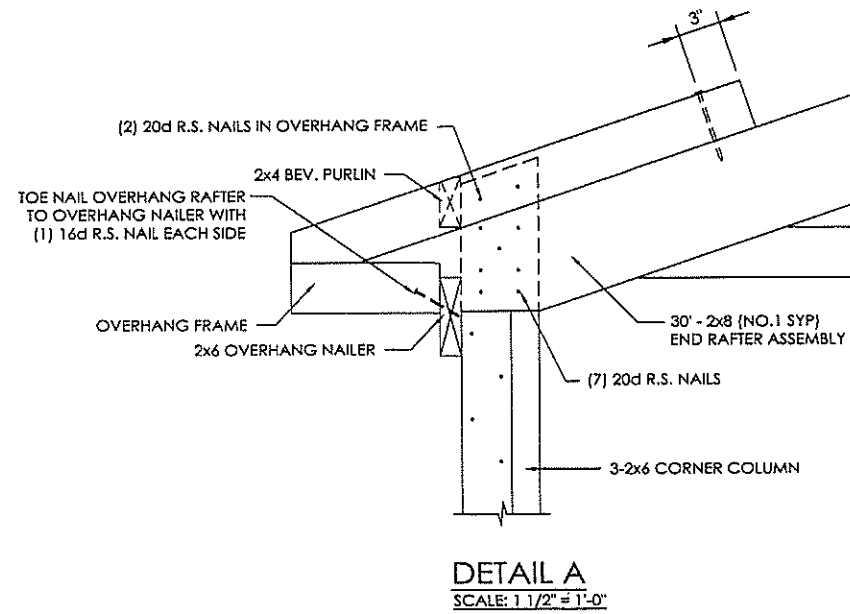
COLUMN PLAN



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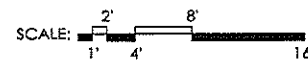
SCALE: AS NOTED
SHEET NO.
S1 OF S5



TRUSS/BRACING PLAN LEGEND

- ◆ - 30' 4090 S.C. TRUSSES @ 8'-0" O.C.
- ◆ - 30' END RAFTER ASSEMBLY
- ◆ - 2x6 DIAGONAL END BRACES (TO EXTEND TO FIRST TRUSS IN FROM ENDWALL)
- ◆ - 2x6 FLAT TRUSS TIE CENTERED IN BUILDING

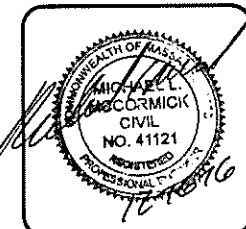
TRUSS/BRACING PLAN

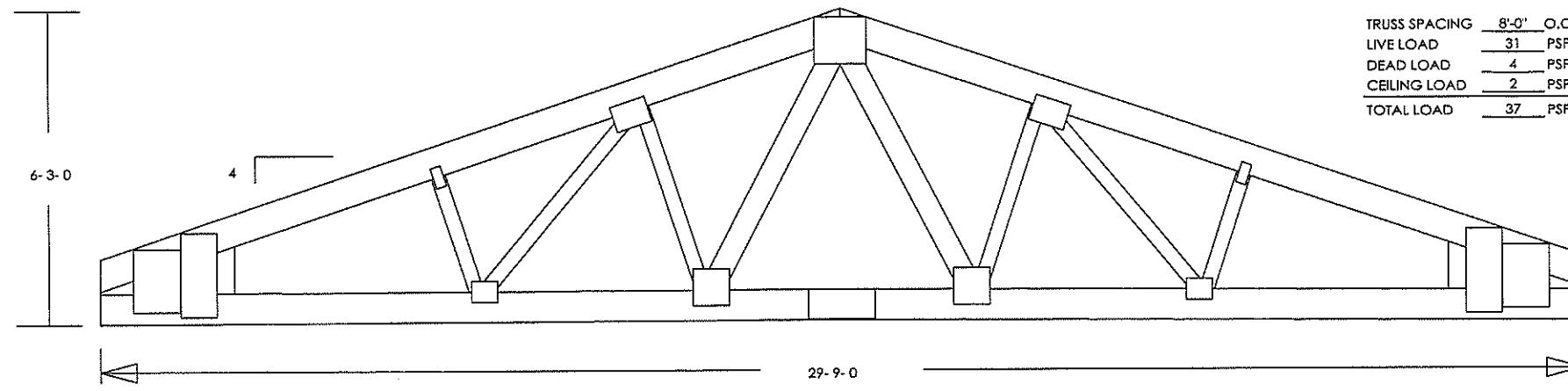


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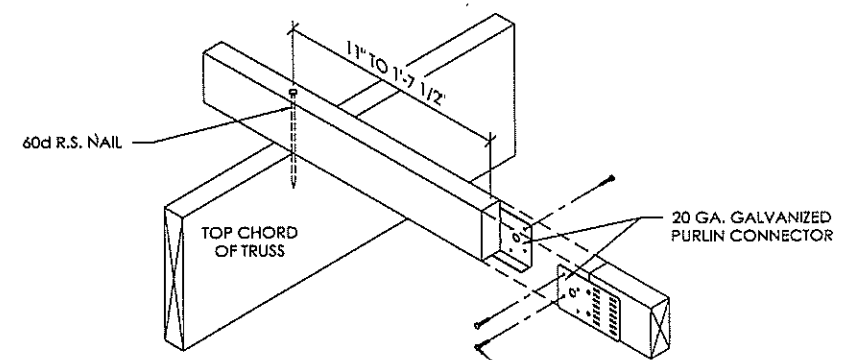
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TRUSS SPACING	8'-0"	O.C.
LIVE LOAD	31	PSF
DEAD LOAD	4	PSF
CEILING LOAD	2	PSF
TOTAL LOAD	37	PSF

30' S.C. 4090 TRUSS
SCALE: 1/2" = 1'-0"



(1) #9x1" HWH SCREW ON PEAK SIDE AND
(2) #9x1" HWH SCREWS ON EAVE SIDE OF
PURLIN IN HOLES SHOWN (JOINT MUST BE
TIGHT BEFORE FASTENING CLIPS)

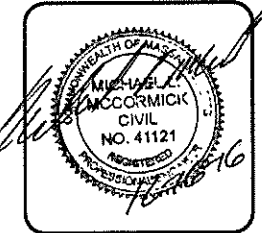
2x4 BUTTED PURLIN DETAIL
(PURLIN CONNECTED WITH 60D R.S. NAIL)
SCALE: 1 1/2" = 1'-0"

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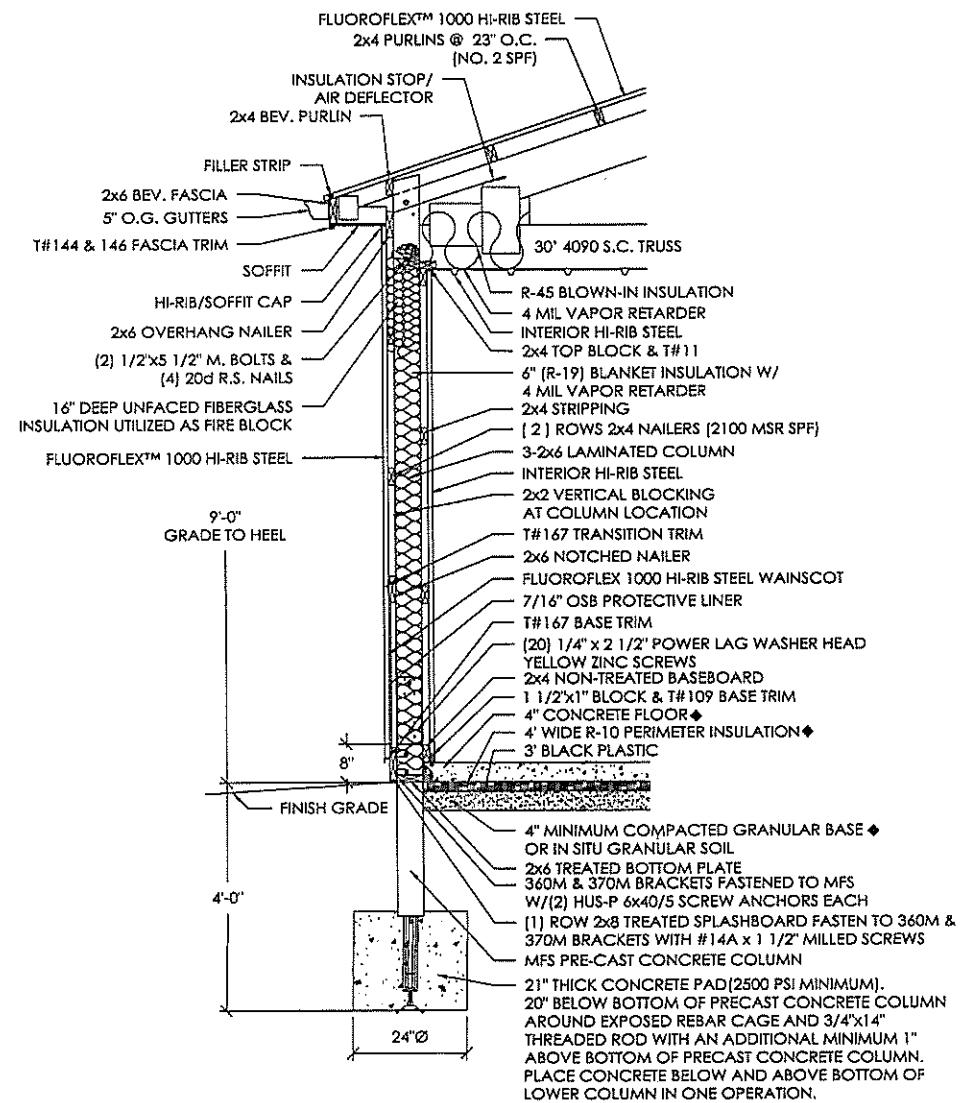
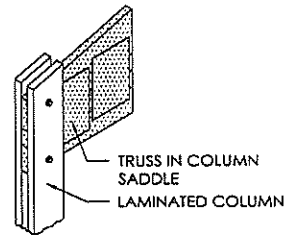
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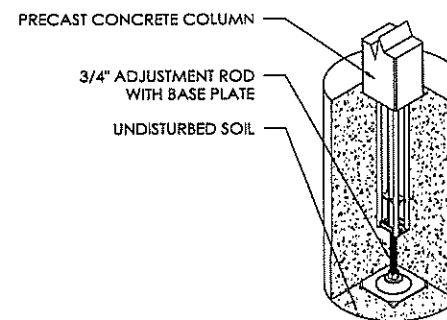
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SCALE: AS NOTED
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S3 OF S5



SIDEWALL SECTION A
SCALE: 1/2" = 1'-0"



LOWER COLUMN ISOMETRIC

LOWER COLUMN INSTALLATION

1. INSTALL PRECAST CONCRETE COLUMN W/ADJUSTMENT ROD & BASE PLATE IN THE AUGERED HOLE;
2. PLUMB PRECAST CONCRETE COLUMN IN BOTH DIRECTIONS
3. ADJUST HEIGHT UP OR DOWN WITH ADJUSTMENT HEX ROD
4. POUR READI-MIX CONCRETE INTO THE HOLE AS SPECIFIED.
5. BACKFILL AND COMPACT THE ANNULAR SPACE AROUND THE COLUMN TO GRADE WITH SOIL AUGERED FROM THE SITE.

DESIGN AND EXPLANATORY NOTES

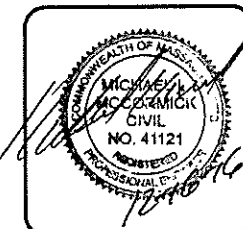
1. FOOTINGS ARE DESIGNED FOR A 2000 PSF SOIL BEARING CAPACITY. LOCAL CONDITIONS MAY REQUIRE MODIFICATIONS.
2. CONCRETE FLOOR NOTES:
 - a. 3500 PSI, 5 1/2 BAG MIX CONCRETE.
 - b. SLOPE GRADE AWAY FROM BUILDING @ 1" PER FOOT FOR A MINIMUM DISTANCE OF 10' PLUS OVERHANG WIDTH.
 - c. PLACE A MINIMUM 6 MIL POLYETHYLENE VAPOR RETARDER OVER A COMPACTED GRANULAR BASE AND DIRECTLY BELOW THE CONCRETE FLOOR.
 - d. CONTRACTION JOINTS UNIFORMLY SPACED 12' O.C. OR LESS.
3. PRIOR TO PLACING THE CONCRETE FOOTINGS, HAND TAMP THE BOTTOM 2'-3" OF LOOSE SOIL TO CONSOLIDATE. IF THE DRILLED HOLE CONTAINS MORE THAN 3" OF LOOSE SOIL, REMOVE EXCESS SOIL TO A UNIFORM THICKNESS OF 2'-3", HAND TAMP AND PROCEED WITH CONCRETE FOOTING PLACEMENT.
4. DO NOT PLACE CONCRETE FOOTING THROUGH MORE THAN 3" OF STANDING WATER. IF MORE THAN 3" OF STANDING WATER IS PRESENT IN THE FOOTING HOLE CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR INSTALLATION INSTRUCTIONS.

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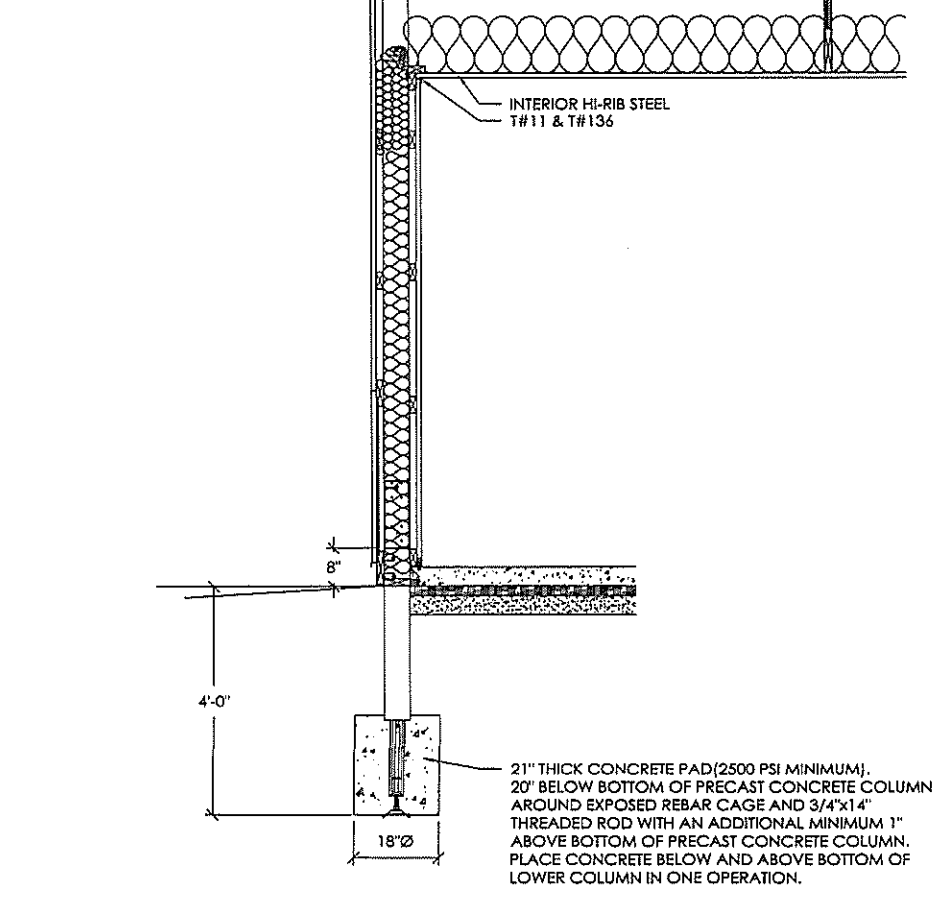
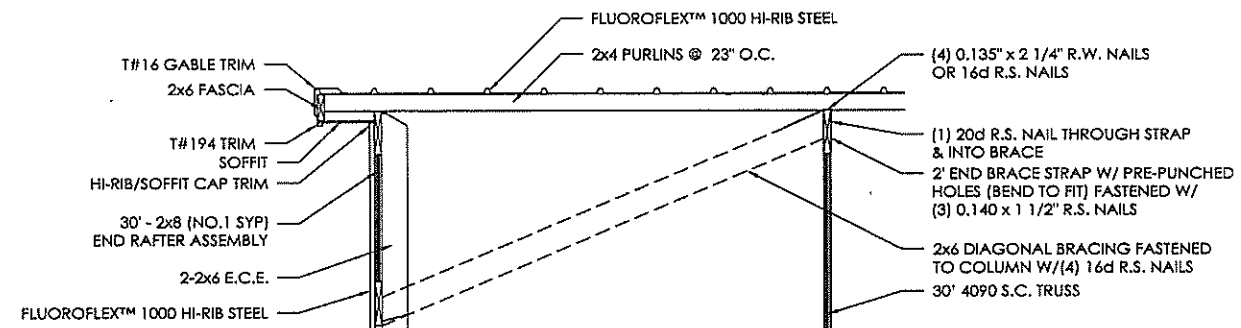
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CHICOPEE, MA

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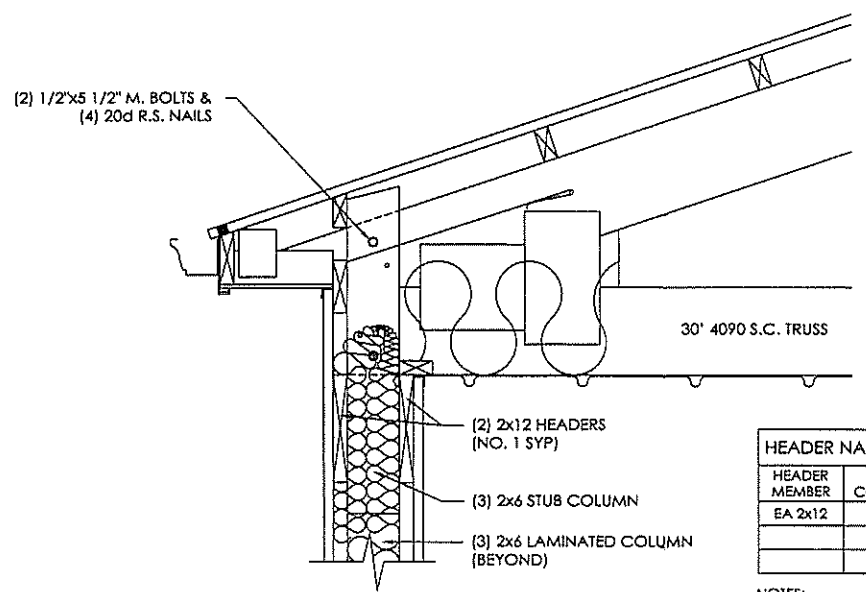
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SCALE: AS NOTED
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S4 OF S5



ENDWALL SECTION B
SCALE: 1/2" = 1'-0"



WINDOW HEADER SECTION C
SCALE: 1" = 1'-0"

HEADER NAILING SCHEDULE		
HEADER MEMBER	STUB COLUMN	JAMB COLUMN
EA 2x12	11	8

- NOTES:
- NUMBERS ABOVE ARE 20d R.S. NAILS REQUIRED PER CONNECTION.
 - PRE-DRILL HEADERS AS REQUIRED TO PREVENT SPLITTING.
 - IF NUMBER OF NAILS REQUIRED FOR HEADER TO JAMB COLUMN CONNECTION IS EXCESSIVE TO CAUSE SPLITTING, THE EXCESS NAILS MAY BE INSTALLED IN HEADER SUPPORT BLOCKING.

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CHICOPEE, MA

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