

From: Schultz, Josie M - DNR
Sent: Tuesday, July 27, 2021 3:35 PM
To: Garritt R. Bader; Brian Youngwirth
Subject: RE: Sunshine Day Care

Hi Garritt,

I had a quick phone discussion with Brian from GEC earlier this afternoon. I reviewed the site plans and cost estimate with our vapor team leader, and are providing the following comments:

1. Vapor pin abandonment is not required.
2. A formal workplan is not required however, at a minimum, vapor port locations and standard operating procedures for shut-in and leak detection testing should be provided via email prior to performing the work.
3. Two vapor port locations and two indoor air samples is minimal. DNR would prefer to see at least 3 vapor port and Indoor air samples per event, but will accept 2 locations.
4. We recommend passive sampling over a 14 day period if possible. I'm unsure if there will be any cost savings with this option, but if it's the same price, DNR highly recommends passive sampling.
5. Outdoor air sampling *can* be removed, however if there are indoor air exceedances then you will not have the outdoor air sample to rule out upwind contributions. DNR doesn't necessarily recommend foregoing outdoor air sampling since it is a QA/QC measure.

Please let me know if you have any questions after reviewing this information.

Thank you,
Josie

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Josie Schultz

Cell Phone: (920) 366-5685

Josie.Schultz@Wisconsin.gov



From: Garritt R. Bader <GB@gb-re.com>
Sent: Monday, July 26, 2021 11:08 AM
To: Brian Youngwirth <byoungwirth@generalengineering.net>
Cc: Schultz, Josie M - DNR <josie.schultz@wisconsin.gov>
Subject: RE: Sunshine Day Care

Hi Josie, please see attached.

I want to be a good partner with the DNR and ensure this project is operating successfully, but the cost to conduct the wanted tests is excessive. Please keep in mind this is a small business couple and, like many of us, have just been through a wild past 18 months.

Is this absolutely what must be done, or can a less invasive test be conducted—at lesser cost—to address what the DNR is seeking?

Please advise, thanks.

GB

Garritt R. Bader

[GB Real Estate Investments, LLC](#)

T: (813) 500-0296

From: Brian Youngwirth <byoungwirth@generalengineering.net>
Sent: Monday, July 26, 2021 10:44 AM
To: Garritt R. Bader <GB@gb-re.com>
Subject: Sunshine Day Care

Garritt, attached is a cost estimate to complete the work the WDNR is requiring at You Are My Sunshine Daycare. Please let me know if you have any questions or want to discuss any of the pricing. If everything looks good, please sign and send back.

Thank you,

Brian L. Youngwirth
Environmental Project Manager | **General Engineering Company**
916 Silver Lake Drive | PO Box 340 | Portage, WI 53901
P 608-742-2169 | C 608-697-8010
byoungwirth@generalengineering.net
www.generalengineering.net

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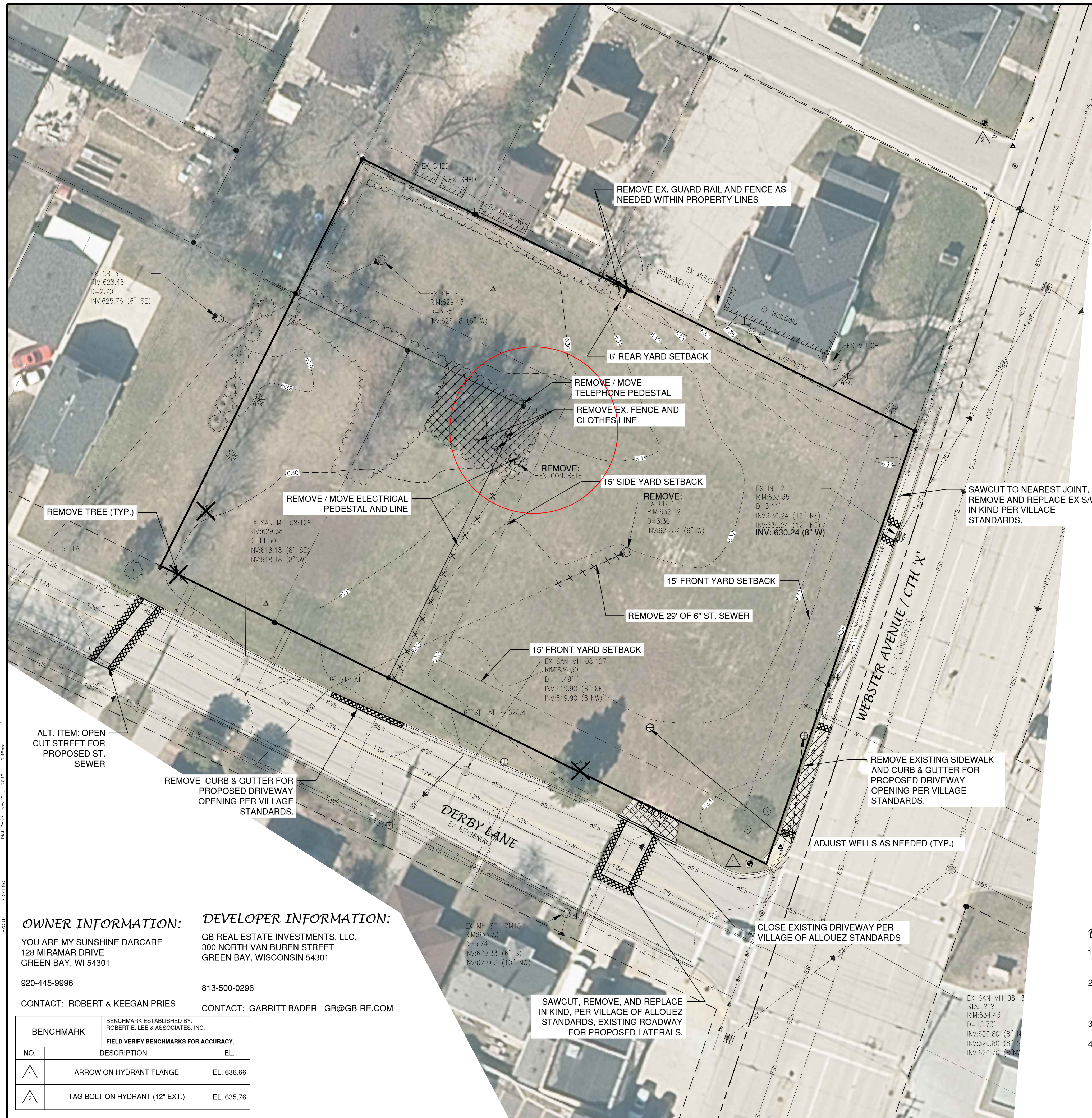
PROJECT PLANS & ADMINISTRATION COST ESTIMATE				
PROJECT: You Are My Sunshine Daycare		Date		7/26/2021
LOCATION: 1324 S. Webster Avenue		PM		BLY
Vapor Sampling				
Item	Units		Rate	Total
1. GEC- Trip Charges (5)--1st and 2nd trip to install sub-slab ports and collect sub-slab and ambient air samples (return after 8 hours for ambient samples); 3rd and 4th trip to collect 2nd round (during winter HVAC operation) of sub-slab and ambient samples (return after 8 hours for ambient air samples); 5th trip to abandon vapor ports if authorized by the WDNR.	5	Lump	\$75.00	\$375.00
2. Vapor Sampling Pins/Equipment	2	Each	\$140.00	\$280.00
3. Install 2 sub-slab vapor ports within non-classroom areas of building (in floor heat is present within the classrooms); collect 2 sub-slab vapor samples (0.5 hour); 2 indoor ambient air samples (8 hour); and 1 outdoor ambient air sample (8 hour).	9	Hours	\$100.00	\$900.00
4. Collect 2 sub-slab vapor samples (0.5 hour); 2 indoor ambient air samples (8 hour); and 1 outdoor ambient air sample (8 hour).	6	Hours	\$100.00	\$600.00
5. Abandon vapor ports with WDNR approval	4	Hours	\$100.00	\$400.00
Estimated Total				\$2,555.00
Analytical				
Item	Estimate		Rate	Total
1. Vapor Analytical, Synergy, Appleton, Wisconsin-5 Test Locations For CVOCs (Round 1)	5	Each	\$240.00	\$1,200.00
2. Vapor Analytical, Synergy, Appleton, Wisconsin-5 Test Locations For CVOCs (Round 2)	5	Each	\$240.00	\$1,200.00
Estimated Total				\$2,400.00
Correspondence/WDNR/CAD/Miscellaneous				
1. Data Tables/Results to WDNR	3	Hours	\$100.00	\$300.00
2. CAD drawing with new building, utility, and test locations.	5	Hours	\$75.00	\$375.00
3. Vapor Sampling Work Plan (Required by the WDNR)	1	Lump	\$500.00	\$500.00
4. Project Coordination- (Historic Data Evaluation, WDNR/tenant Correspondence, Work Scoping)	4	Hr.	\$100.00	\$400.00
Estimated Total				\$1,575.00
Total Estimated Costs				\$6,530.00

Authorizing Signature: _____

Date: _____

Scope: This includes the preparation and submittal of a brief work plan to the WDNR; installation of 2 sub slab vapor ports in non-classroom areas of the building (in floor heat is present in the classroom areas), collection of 2 rounds of sub-slab vapor samples (0.5-hour), collection of 2 rounds of ambient air samples from the interior of the building at 2 locations (8-hour), and 2 rounds of outdoor ambient samples from 1 location (8-hour). The sampling rounds will be performed in July or August of 2021 and during HVAC heating operation during the winter of 2021/2022. The vapor samples will be submitted for laboratory analysis of chlorinated volatile organic compounds (CVOCs). The lab results will be provided to the WDNR after each sampling round. The costs include vapor port abandonment if authorized by the WDNR after the testing.

Brian Youngwirth
General Engineering Company
916 Silver Lake Drive
Portage, WI 53901
Phone: 608-742-2169 Fax: 608-742-2592



UTILITY INFORMATION:

UTILITIES PRESENT:
Village of ALLOUEZ, NET LEC, AT&T DISTRIBUTION, WISCONSIN PUBLIC SERVICE.

UTILITIES SHOWN ON THIS MAP ARE BASED ON LOCATES FROM:

DIGGER'S HOTLINE TICKET NUMBER #20193812926 AND 20193812924 & DATE 09/28/2019 VISIBLE OBSERVATION (10/3/2019) AND RECORD UTILITY PLAN DOCUMENTS. UTILITY LINE LOCATIONS SHOULD BE VERIFIED PRIOR TO ANY DIGGING. THIS SITE MAY CONTAIN BURIED UTILITIES NOT IDENTIFIED ON THIS MAP.

DIGGERS HOTLINE = 1-800-242-8511

WATER/SANITARY/STORM SEWER: DEPARTMENT OF PUBLIC WORKS VILLAGE ALLOUEZ 1900 LIBAL STREET GREEN BAY, WI 54301 (920) 448-2800	TELECOMMUNICATIONS: NET LEC / NSIGHT / CELLCOM C/O MI TECH SERVICES 1700 INDUSTRIAL DR. GREEN BAY, WI 54302 (920) 288-8908	TELECOMMUNICATIONS: AT & T / SBC 205 S. JEFFERSON ST. GREEN BAY, WI 54301 (920) 433-4147	GAS & ELECTRIC: WISCONSIN PUBLIC SERVICE CORP. 700 N. ADAMS ST. GREEN BAY, WI 54307 (800) 797-7434
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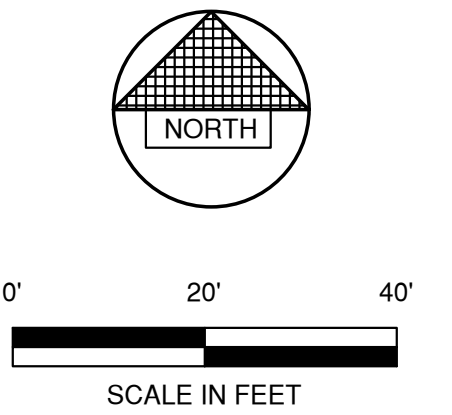
LEGEND

<ul style="list-style-type: none"> ○ FIRE HYDRANT ⊗ WATER VALVE/CURB STOP ⊙ WATER MANHOLE ▽ REDUCER/INCREASER ○ SANITARY MANHOLE ● AIR RELIEF MANHOLE ⊙ STORM MANHOLE ⊙ OPEN STORM MANHOLE ⊙ STORM INLET ⊙ STORM INLET MANHOLE ⊙ TANK COVER ⊙ SOIL BORING ● POST ● IRON PIPE/ROD ▲ PK NAIL 	<ul style="list-style-type: none"> ⊙ POWER POLE ⊙ POWER POLE W/GUY WIRE ⊙ LIGHT POLE ⊙ TRAFFIC SIGNAL POLE ⊙ ELECTRIC MANHOLE ⊙ ELECTRIC METER ⊙ TELEPHONE MANHOLE ⊙ TELEPHONE PEDESTAL ⊙ CABLE TV MANHOLE ⊙ CABLE TV PEDESTAL ⊙ GAS VALVE ⊙ GAS METER ⊙ MAILBOX ⊙ SIGN ⊙ BOLLARD 	<ul style="list-style-type: none"> ○ DECIDUOUS TREE ○ CONIFEROUS TREE ○ BUSH ○ RIP RAP ○ CULVERT ○ WETLANDS ○ HANDICAP PARKING ○ TO BE DEMOLISHED ○ TREE/SHRUB TO BE REMOVED
<ul style="list-style-type: none"> — EDGE OF ASPHALT — EDGE OF GRAVEL — CURB & GUTTER — TREE/BRUSH LINE — CONTOUR LINE — RETAINING WALL — GUARD RAIL — FENCE 	<ul style="list-style-type: none"> — BSS — BSS — SANITARY SEWER (SIZE NOTED) — 4FM — 4FM — FORCEMAIN (SIZE NOTED) — 10ST — 10ST — STORM SEWER (SIZE NOTED) — 6W — 6W — WATERMAIN (SIZE NOTED) — G — G — GAS LINE — OT — OT — OVERHEAD TELEPHONE LINE — T — T — UNDERGROUND TELEPHONE LINE — OE — OE — OVERHEAD ELECTRIC LINE — E — E — UNDERGROUND ELECTRIC LINE — OTV — OTV — OVERHEAD CABLE TV LINE — TV — TV — CABLE TV LINE — FO — FO — FIBER OPTIC LINE — R/W — R/W — R/W LINE — — — — — PROPERTY LINE — — — — — EASEMENT LINE — — — — — BUILDING SETBACK LINE — — — — — SECTION LINE 	<ul style="list-style-type: none"> VPC VERTICAL POINT OF CURVATURE VPI VERTICAL POINT OF INTERSECTION VPT VERTICAL POINT OF TANGENCY PC POINT OF CURVATURE PI POINT OF INTERSECTION PT POINT OF TANGENCY R RADIUS EX EXISTING PR PROPOSED EOR END OF RADIUS BOC BACK OF CURB B-B BACK TO BACK (OF CURB) F-F FACE TO FACE (OF CURB) R/W RIGHT OF WAY T/C TOP OF CURB F/L FLOW LINE C/L CENTERLINE R/L REFERENCE LINE INV. INVERT CMP CORRUGATED METAL PIPE RCP REINFORCED CONCRETE PIPE CULV. CULVERT

GR. GRAVEL	WM WATERMAIN	VPC VERTICAL POINT OF CURVATURE	B-B BACK TO BACK (OF CURB)
BIT. BITUMINOUS	HYD. HYDRANT	VPI VERTICAL POINT OF INTERSECTION	F-F FACE TO FACE (OF CURB)
ASPH. ASPHALT	WV WATER VALVE	VPT VERTICAL POINT OF TANGENCY	R/W RIGHT OF WAY
CONC. CONCRETE	SAN SANITARY SEWER	PC POINT OF CURVATURE	T/C TOP OF CURB
SW SIDEWALK	MH MANHOLE	PI POINT OF INTERSECTION	F/L FLOW LINE
BLDG BUILDING	ST STORM SEWER	PT POINT OF TANGENCY	C/L CENTERLINE
HSE HOUSE	CB CATCH BASIN	R RADIUS	R/L REFERENCE LINE
PED PEDESTAL	TELE TELEPHONE	EX EXISTING	INV. INVERT
PP POWER POLE	ELEC ELECTRIC	PR PROPOSED	CMP CORRUGATED METAL PIPE
LP LIGHT POLE	TV TELEVISION	EOR END OF RADIUS	RCP REINFORCED CONCRETE PIPE
BM BENCHMARK	STA. STATION	BOC BACK OF CURB	CULV. CULVERT

DEMOLITION NOTES

- EXISTING ASPHALT AND BASE COURSE MAY BE PULVERIZED AND STOCKPILED ON SITE FOR FUTURE USE.
- EXISTING GAS, ELECTRIC, CABLE TELEVISION AND TELEPHONE TO BE REMOVED AND/OR RELOCATED BY OTHERS. WORK SHALL BE COORDINATED BY GENERAL CONTRACTOR.
- ALL MISCELLANEOUS STRUCTURES SHALL BE REMOVED.
- DRIVEWAY OPENINGS SHALL BE REMOVED AND CURB OPENINGS SHALL BE CLOSED IN ACCORDANCE WITH STANDARD DETAIL "CURB REMOVAL", SEE DETAIL SHEETS.



OWNER INFORMATION:

YOU ARE MY SUNSHINE DARCARE
128 MIRAMAR DRIVE
GREEN BAY, WI 54301

920-445-9996

CONTACT: ROBERT & KEEGAN PRIES

DEVELOPER INFORMATION:

GB REAL ESTATE INVESTMENTS, LLC.
300 NORTH VAN BUREN STREET
GREEN BAY, WISCONSIN 54301

813-500-0296

CONTACT: GARRITT BADER - GB@GB-RE.COM

BENCHMARK		
BENCHMARK ESTABLISHED BY: ROBERT E. LEE & ASSOCIATES, INC.		
FIELD VERIFY BENCHMARKS FOR ACCURACY.		
NO.	DESCRIPTION	EL.
1	ARROW ON HYDRANT FLANGE	EL. 636.66
2	TAG BOLT ON HYDRANT (12" EXT.)	EL. 635.76

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN BLT
CHECKED JGS
DESIGNED BLT

PROPOSED DAYCARE FOR
GB REAL ESTATE INVESTMENTS, LLC.
VILLAGE OF ALLOUEZ
BROWN COUNTY, WISCONSIN

EXISTING CONDITIONS

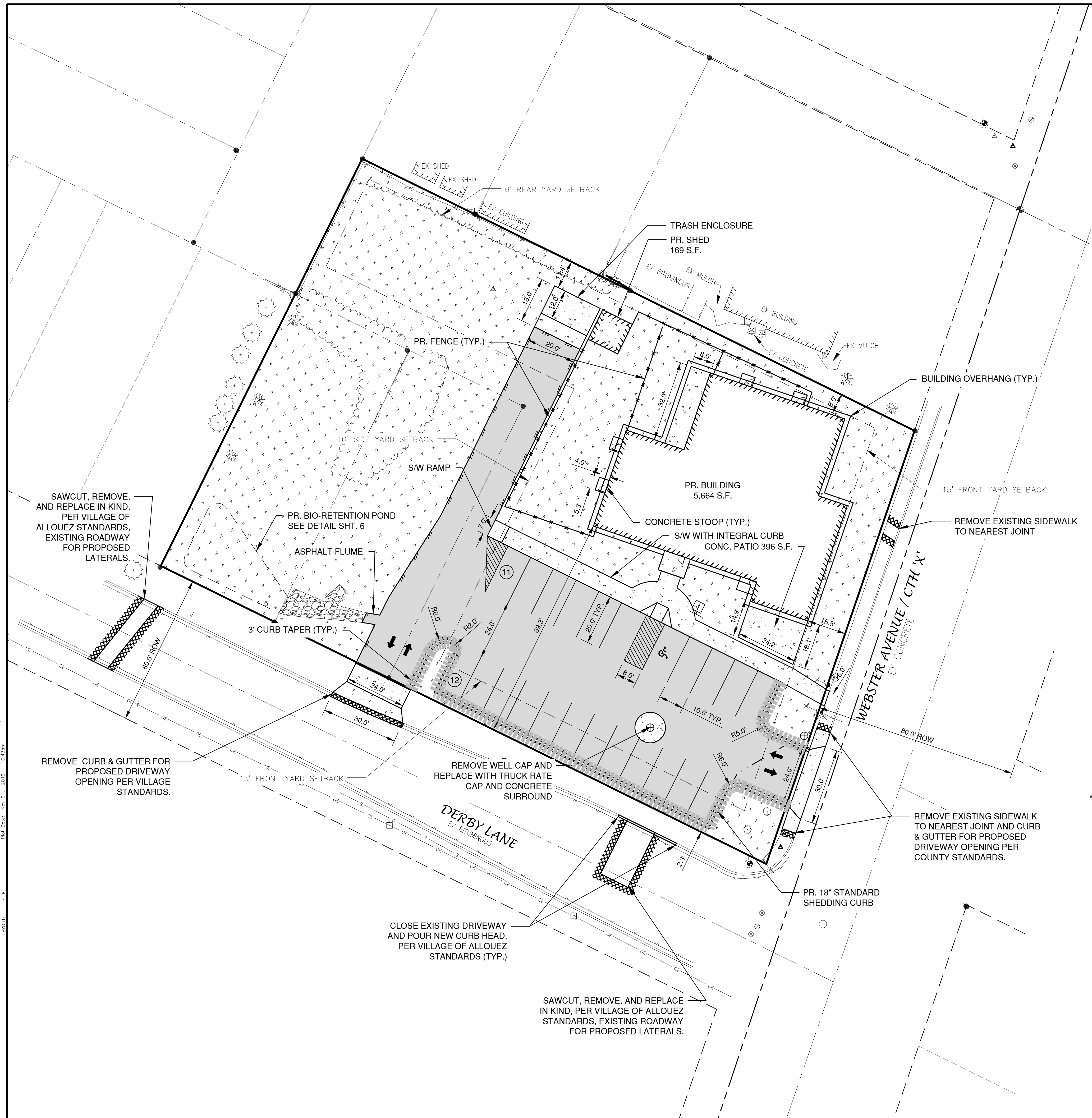
DATE 09/2019
FILE 5642014T
JOB NO. 5642014

Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
920-662-9641 www.releinc.com

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 LAYOUT: EXISTING

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

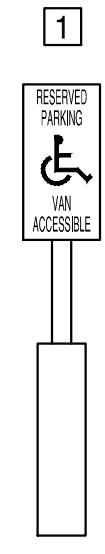
TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.



LEGEND

- CONCRETE PAVEMENT (2,798 S.F.)
- ASPHALT PAVEMENT (11,484 S.F.)
- LANDSCAPE AREA
- GREEN SPACE
- PROPOSED 18" STANDARD CURB AND GUTTER
- PROPOSED 18" STANDARD SHEDDING CURB AND GUTTER
- PROPOSED 18" MOUNTABLE CURB AND GUTTER
- PROPOSED 18" MOUNTABLE SHEDDING CURB AND GUTTER
- TRAFFIC FLOW ARROW
- HANDICAPPED PARKING
- INDICATES NUMBER OF PARKING STALLS
- WALL PACK
- LIGHT POLE (1 LAMP)
- LIGHT POLE (2 LAMPS)
- LIGHT POLE (3 LAMPS)
- LIGHT POLE (4 LAMPS)

*NOTE: ALL DIMENSIONS ARE TO THE FACE OF CURB, UNLESS NOTED OTHERWISE



NOTE
 ALL DISTURBED AREAS SHALL BE TOPSOILED TO A DEPTH OF 6 INCHES, SEEDED AND MULCHED. AREA TO BE RAKED FREE OF STONES AND CLUMPS.

PARKING DATA
 TOTAL PARKING STALLS PROVIDED = 23
 HANDICAP ACCESSIBLE PARKING STALLS = 1
 TOTAL PARKING STALLS REQUIRED = 8

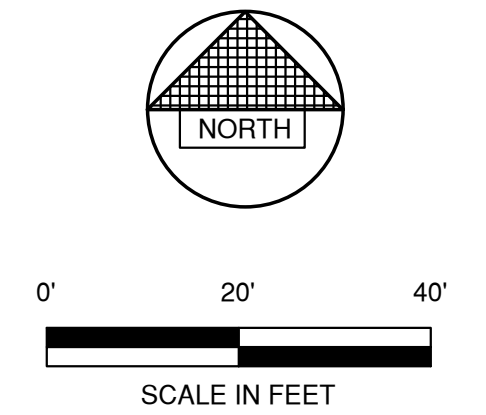
1 SPACE PER 10 CHILDREN ENROLLED PLUS 1 QUEUING SPACE PER 20 CHILDREN ENROLLED; 2 QUEUING SPACES MINIMUM.

55 CHILDREN / 10 = 5.5 = 6 STALLS REQUIRED + 2 QUEUING = 8 STALLS

SITE DATA
 TOTAL AREA = 1.05 ACRES, 45,604 S.F.
 BUILDING AREA = 0.14 ACRES, 5,833 S.F. (13.3%)
 SIDEWALK/PARKING LOT AREA = 0.31 ACRES, 14,102 S.F. (29.5%)
 GREEN SPACE = 0.60 ACRES, 25,669 S.F. (57.2%)

PARCEL NO.
 AL-1419 (33,623 S.F.), AL-1420 (5,991 S.F.), AND AL-1421 (5,990 S.F.)

ZONING
 "E" - COMMERCIAL DISTRICT



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 Plot Date: Nov 21, 2019 10:28:35am
 LAYOUT: SITE

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 DESIGNED: BLT

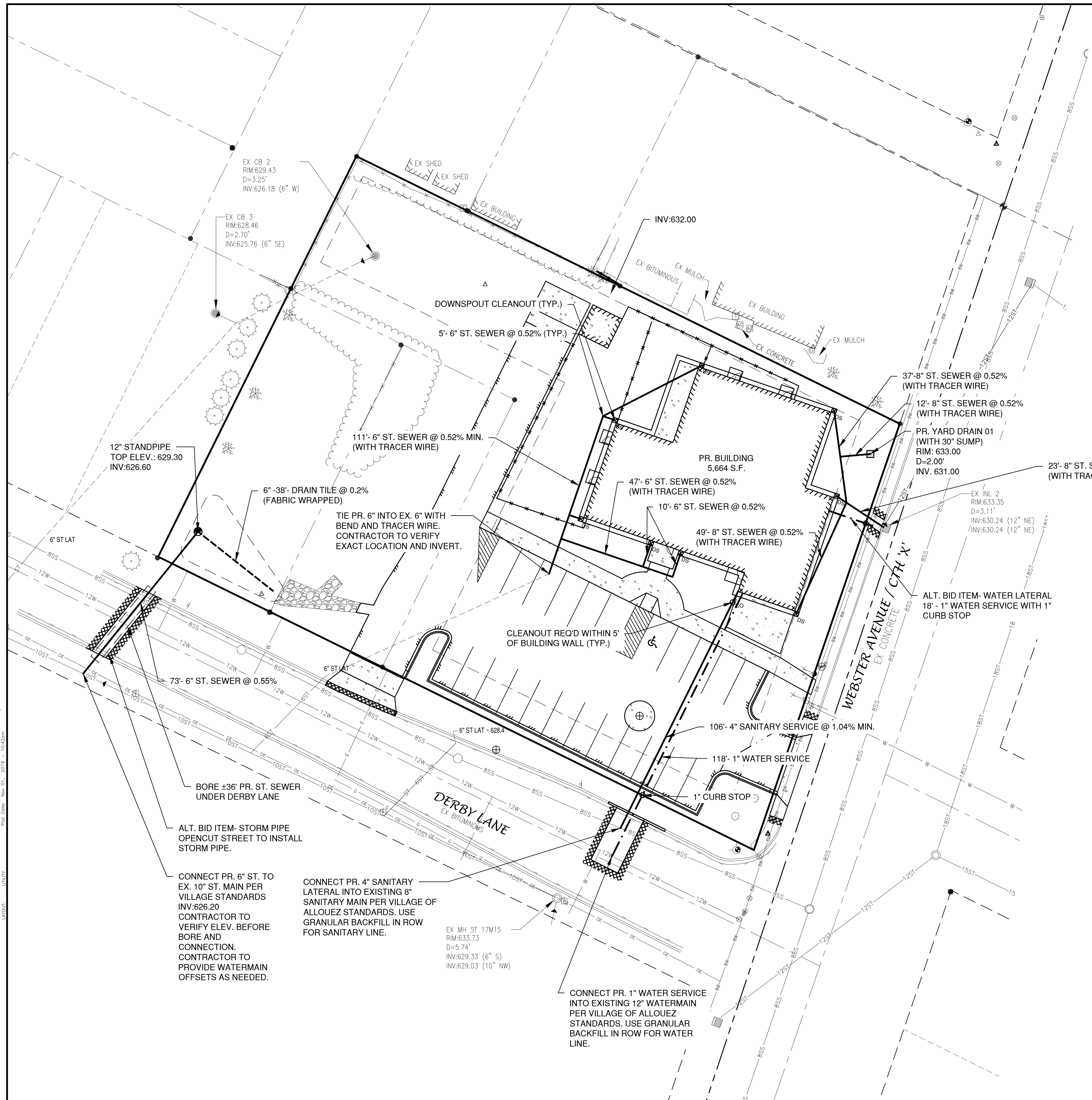
PROPOSED DAYCARE
 GB REAL ESTATE INVESTMENTS, LLC.
 VILLAGE OF ALLOUEZ
 BROWN COUNTY, WISCONSIN

SITE PLAN

DATE: 10/20/19
 FILE: 5642014D
 JOB NO.: 5642014

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SHEET NO. **2**



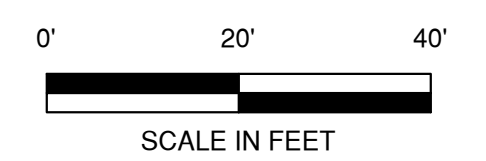
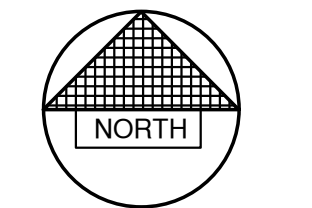
LEGEND

	PROPOSED SANITARY SEWER
	EXISTING SANITARY SEWER (SIZE NOTED)
	PROPOSED STORM SEWER
	EXISTING STORM SEWER (SIZE NOTED)
	PROPOSED WATERMAIN
	EXISTING WATERMAIN (SIZE NOTED)

LEGEND

	PROPOSED FIRE HYDRANT
	EXISTING FIRE HYDRANT
	PROPOSED WATER VALVE/CURB STOP
	EXISTING WATER VALVE/CURB STOP
	PROPOSED WATER MANHOLE
	EXISTING WATER MANHOLE
	PROPOSED REDUCER/INCREASER
	EXISTING REDUCER/INCREASER
	PROPOSED SANITARY MANHOLE
	EXISTING SANITARY MANHOLE
	PROPOSED LIFT STATION
	EXISTING LIFT STATION
	PROPOSED TRACER WIRE SIGNAL CONNECTION BOX
	EXISTING TRACER WIRE SIGNAL CONNECTION BOX
	PROPOSED CLEANOUT
	EXISTING CLEANOUT
	PROPOSED STORM MANHOLE
	EXISTING STORM MANHOLE
	PROPOSED STORM CATCH BASIN
	EXISTING STORM CATCH BASIN
	PROPOSED STORM INLET
	EXISTING STORM INLET
	PROPOSED STORM INLET MANHOLE
	EXISTING STORM INLET MANHOLE
	PROPOSED YARD DRAIN
	EXISTING YARD DRAIN
	PROPOSED STANDPIPE
	EXISTING STANDPIPE
	PROPOSED ROOF DOWNSPOUT
	EXISTING ROOF DOWNSPOUT

- NOTE**
1. A MINIMUM OF 6.5 FEET OF COVER SHALL BE MAINTAINED OVER ALL WATERMAIN.
 2. SANITARY SEWER, WATERMAIN AND STORM SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN AND ADMINISTRATIVE CODE CHAPTERS COMM 81-87.
 3. FIELD VERIFY LOCATION OF EXISTING UTILITIES. IF EXISTING LOCATIONS DIFFER FROM WHAT IS INDICATED ON THE PLANS, CONTACT ENGINEER, PRIOR TO CONTINUED WORK.
 4. ALL SANITARY SEWER, STORM SEWER AND WATER SERVICES / MAINS SHALL BE PROVIDED WITH TRACER WIRE OR OTHER METHOD TO BE LOCATED.
 5. UTILITY CONTRACTOR TO PROVIDE REQUIRED TRAFFIC CONTROL AND SIDEWALK CLOSURE PER VILLAGE AND COUNTY STANDARDS.



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

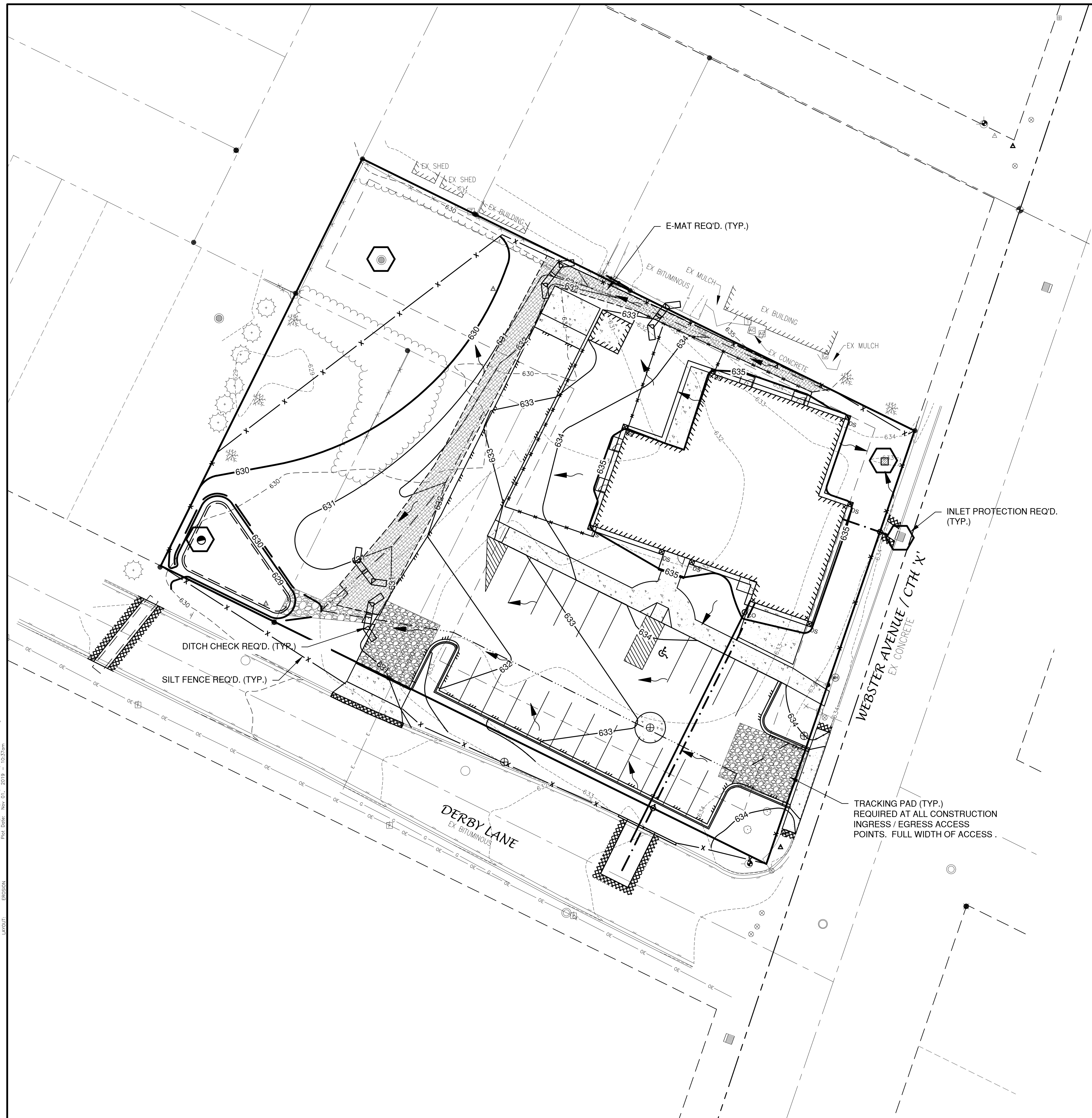
PROPOSED DAYCARE
 GB REAL ESTATE INVESTMENTS, LLC.
 VILLAGE OF ALLOUEZ
 BROWN COUNTY, WISCONSIN

UTILITY PLAN

DATE	10/20/19
FILE	5642014D
JOB NO.	5642014

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SHEET NO.
3



LEGEND

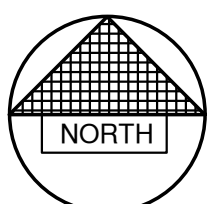
- DRAINAGE SWALE
- DRAINAGE DIVIDE
- FLOW ARROW
- SILT FENCE (PER WDNR TECHNICAL STANDARD 1056)
- DITCH CHECK (PER WDNR TECHNICAL STANDARD 1062)
- TRACKING PAD (PER WDNR TECHNICAL STANDARD 1057)
- EROSION MAT (PER WDNR TECHNICAL STANDARD 1053)
- INLET PROTECTION (PER WDNR TECHNICAL STANDARD 1060)

EROSION CONTROL

ALL EROSION CONTROL PRACTICES INDICATED ON THIS PLAN ARE APPROXIMATE LOCATIONS ONLY. THE ACTUAL SITE MAY REQUIRE MORE OR LESS EROSION CONTROL DEPENDING ON THE CURRENT CONDITION OF THE SITE.

1. SILT FENCE IS REQUIRED DOWNSLOPE OF ANY DISTURBED LAND THAT MAY CARRY SEDIMENTS OFF SITE.
2. A TRACKING PAD IS REQUIRED AT ANY INGRESS/EGRESS LOCATION, WHERE SEDIMENT MAY BE TRACKED OFF-SITE.
3. PROPER INLET PROTECTION SHALL BE USED DEPENDING ON THE INLET TYPE.
4. ALL NECESSARY SITE DEWATERING SHALL BE PERFORMED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061.

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 LAYOUT: EROSION



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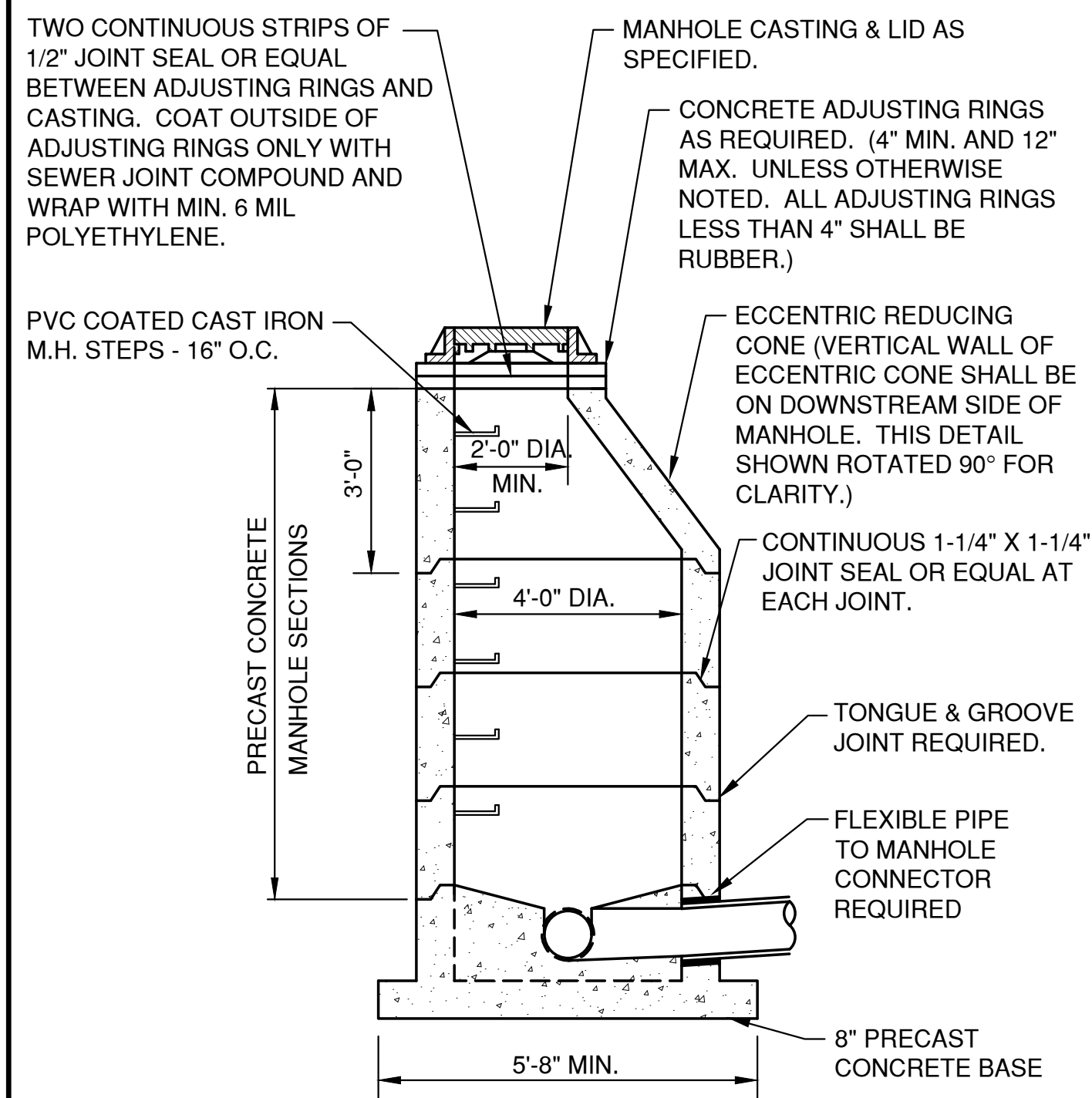
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 CHECKED: JGS
 DESIGNED: BLT
PROPOSED DAYCARE
GB REAL ESTATE INVESTMENTS, LLC.
VILLAGE OF ALLOUEZ
BROWN COUNTY, WISCONSIN

EROSION CONTROL PLAN

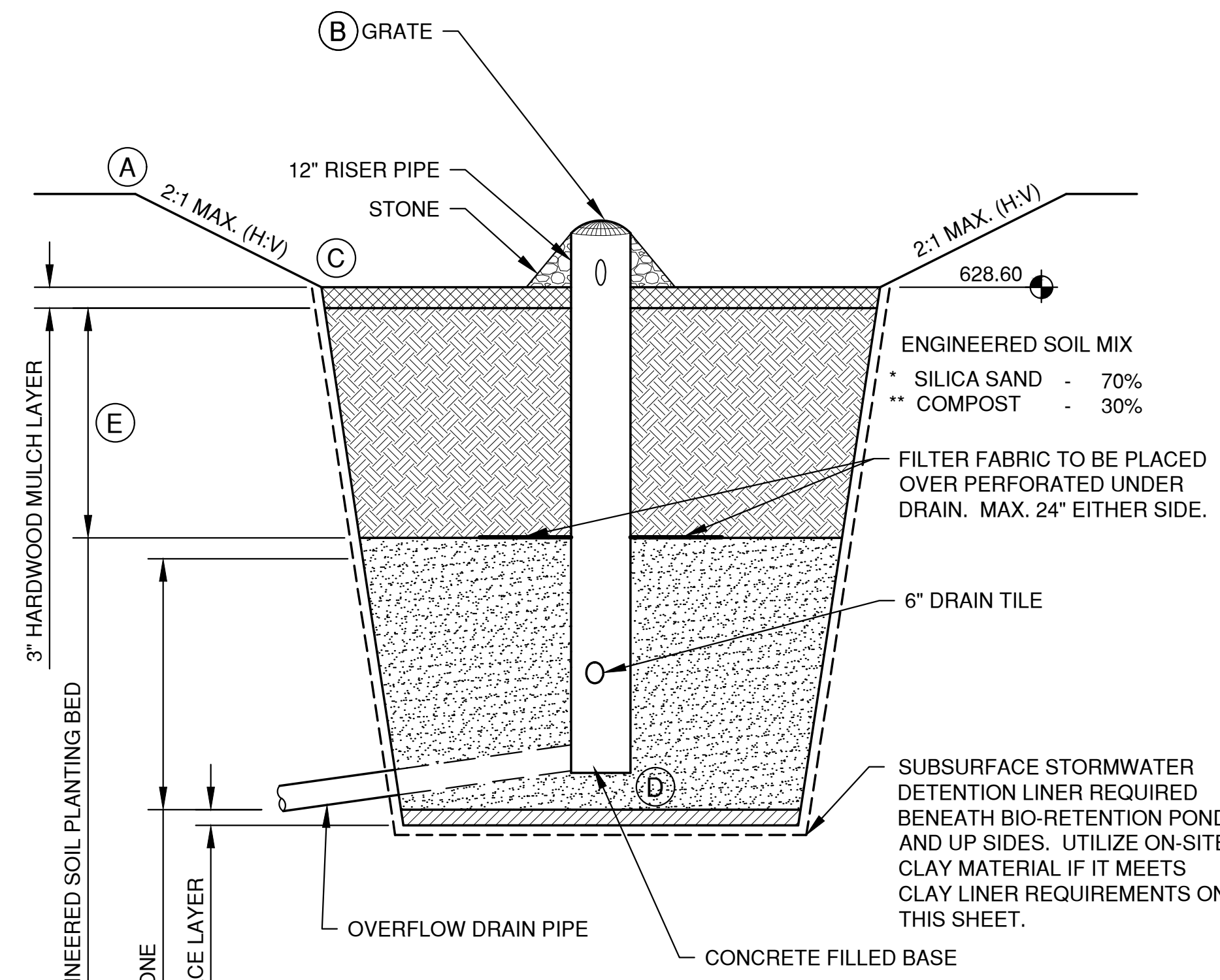
DATE: 10/20/19
 FILE: 5642014D
 JOB NO.: 5642014

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SHEET NO. **5**



**SANITARY AND STORM STANDARD MANHOLE
8"-24" (INCLUSIVE)**



NOTE:
* SILICA SAND SHALL MEET THE REQUIREMENTS OF WDNR TECHNICAL STANDARD 1004, BIORETENTION FOR INFILTRATION.
** COMPOST SHALL MEET THE REQUIREMENTS OF WDNR SPECIFICATION S100.

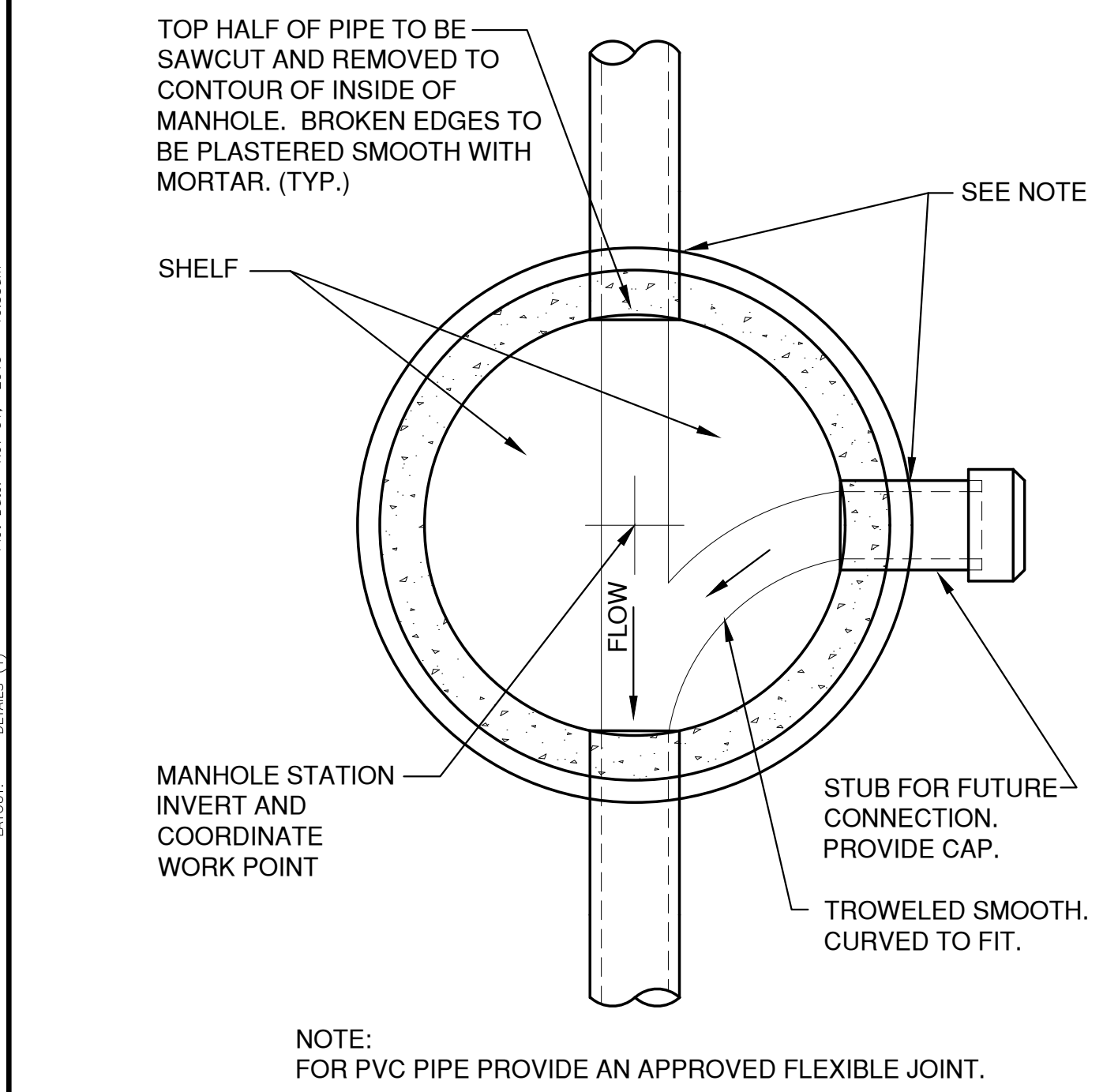
(A) TOP ELEVATION	(B) STAND PIPE RIM	(C) BOTTOM AREA (S.F.), ELEV.	(D) DISCHARGE PIPE INV.	(E) ENGINEERED SOIL DEPTH
630.60	629.30	628.60, 834 S.F.	626.60	1.5'

CONSTRUCTION SEQUENCING AND OVERSIGHT:
A PERSON TRAINED AND EXPERIENCED IN THE CONSTRUCTION, OPERATION AND MAINTENANCE OF INFILTRATION DEVICES SHALL BE RESPONSIBLE FOR CONSTRUCTION OF THE DEVICE. THE FOLLOWING APPLY:

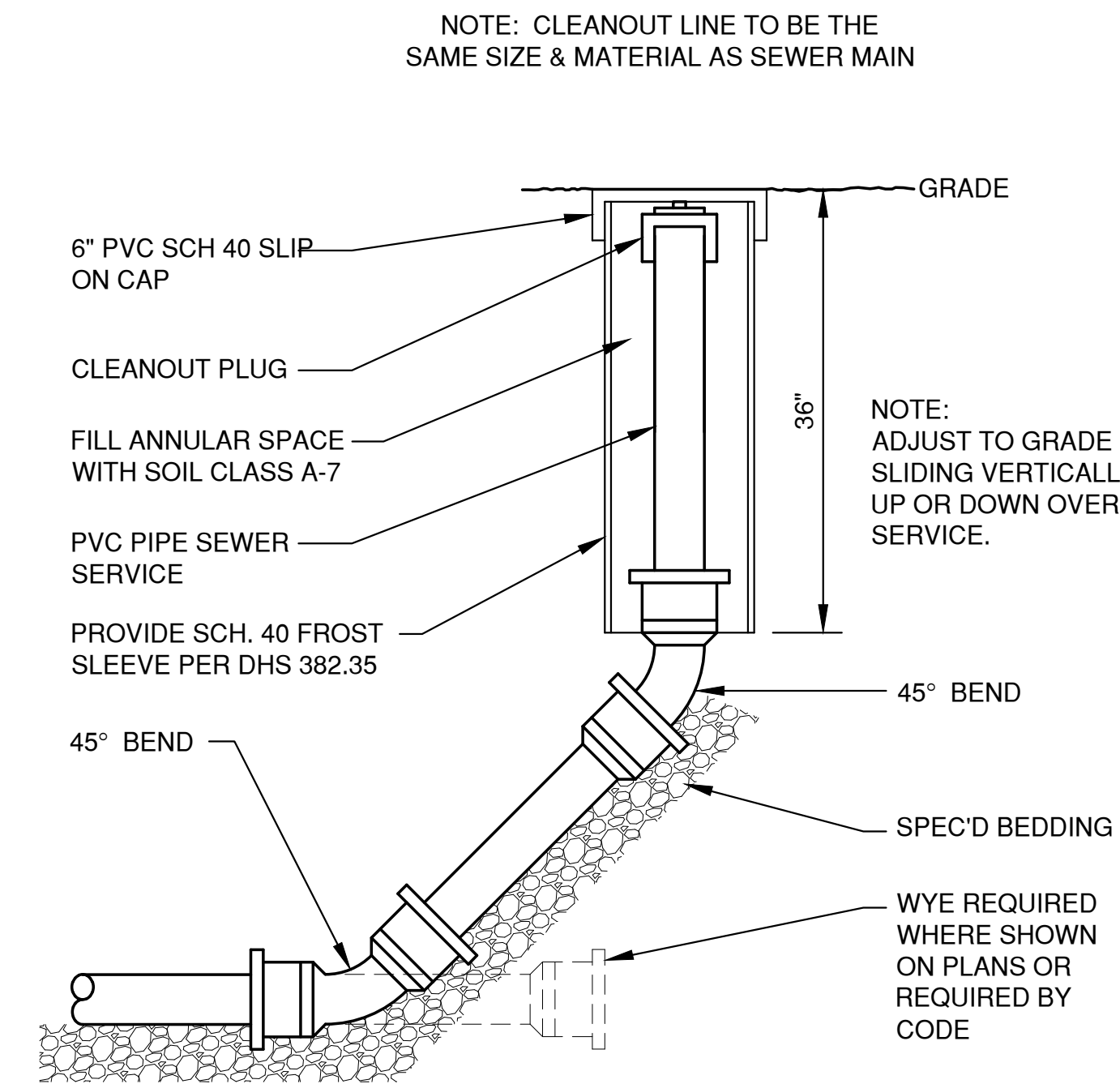
- CONSTRUCTION SITE STABILIZATION - CONSTRUCTION SITE RUNOFF FROM DISTURBED AREAS SHALL NOT BE ALLOWED TO ENTER THE BIORETENTION DEVICE. RUNOFF FROM PERVIOUS AREAS SHALL BE DIVERTED FROM THE DEVICE UNTIL THE PERVIOUS AREAS HAVE UNDERGONE **FINAL STABILIZATION**.
- SUITABLE WEATHER - CONSTRUCTION SHALL BE SUSPENDED DURING PERIODS OF RAINFALL OR SNOWMELT. CONSTRUCTION SHALL REMAIN SUSPENDED IF PONDING WATER IS PRESENT OR IF WATER IS PRESENT OR IF RESIDUAL SOIL MOISTURE CONTRIBUTES SIGNIFICANTLY TO THE POTENTIAL FOR SOIL SMEARING, CLUMPING OR OTHER FORMS OF COMPACTION.
- COMPACTION AVOIDANCE - COMPACTION AND SMEARING OF THE SOILS BENEATH THE FLOOR AND SIDE SLOPES OF THE BIORETENTION AREA, AND COMPACTION OF THE SOILS USED FOR BACKFILL IN THE SOIL PLANTING BED, SHALL BE MINIMIZED. DURING SITE DEVELOPMENT, THE AREA DEDICATED TO THE BIORETENTION DEVICE SHALL BE CORDONED OFF TO PREVENT ACCESS BY **HEAVY EQUIPMENT**. ACCEPTABLE EQUIPMENT FOR CONSTRUCTING THE BIORETENTION DEVICE INCLUDES EXCAVATION HOES, LIGHT EQUIPMENT WITH TURF TYPE TIRES, MARCH EQUIPMENT OR WIDE-TRACK LOADERS.
- COMPACTION REMEDIATION - IF COMPACTION OCCURS AT THE BASE OF THE BIORETENTION DEVICE, THE SOIL SHALL BE REFRRACTURED TO A DEPTH OF AT LEAST 12 INCHES. IF SMEARING OCCURS, THE SMEARED AREAS OF THE INTERFACE SHALL BE CORRECTED BY RAKING OR ROTO-TILLING.
- PLACEMENT AND SETTLING OF ENGINEERED SOIL - THE FOLLOWING APPLY:
 - PRIOR TO PLACEMENT IN THE BIORETENTION DEVICE, THE ENGINEERED SOIL SHALL BE PRE-MIXED AND THE MOISTURE CONTENT SHALL BE LOW ENOUGH TO PREVENT CLUMPING AND COMPACTION DURING PLACEMENT.
 - THE ENGINEERED SOIL SHALL BE PLACED IN MULTIPLE LIFTS, EACH APPROXIMATELY 12 INCHES IN DEPTH.
 - STEPS MAY BE TAKEN TO INDUCE MILD SETTLING OF THE ENGINEERED SOIL BED AS NEEDED TO PREPARE A STABLE PLANTING MEDIUM AND TO STABILIZE THE PONDING DEPTH. VIBRATING PLATE-STYLE COMPACTORS SHALL NOT BE USED TO INDUCE SETTLING.
- PLANTING - THE ENTIRE SOIL PLANTING BED SHALL BE MULCHED PRIOR TO PLANTING VEGETATION TO HELP PREVENT COMPACTION OF THE PLANTING SOIL DURING THE PLANTING PROCESS. MULCH SHALL BE PUSHED ASIDE FOR THE PLACEMENT OF EACH PLANT.

ACCEPTABLE SUBSURFACE STORMWATER DETENTION LINERS

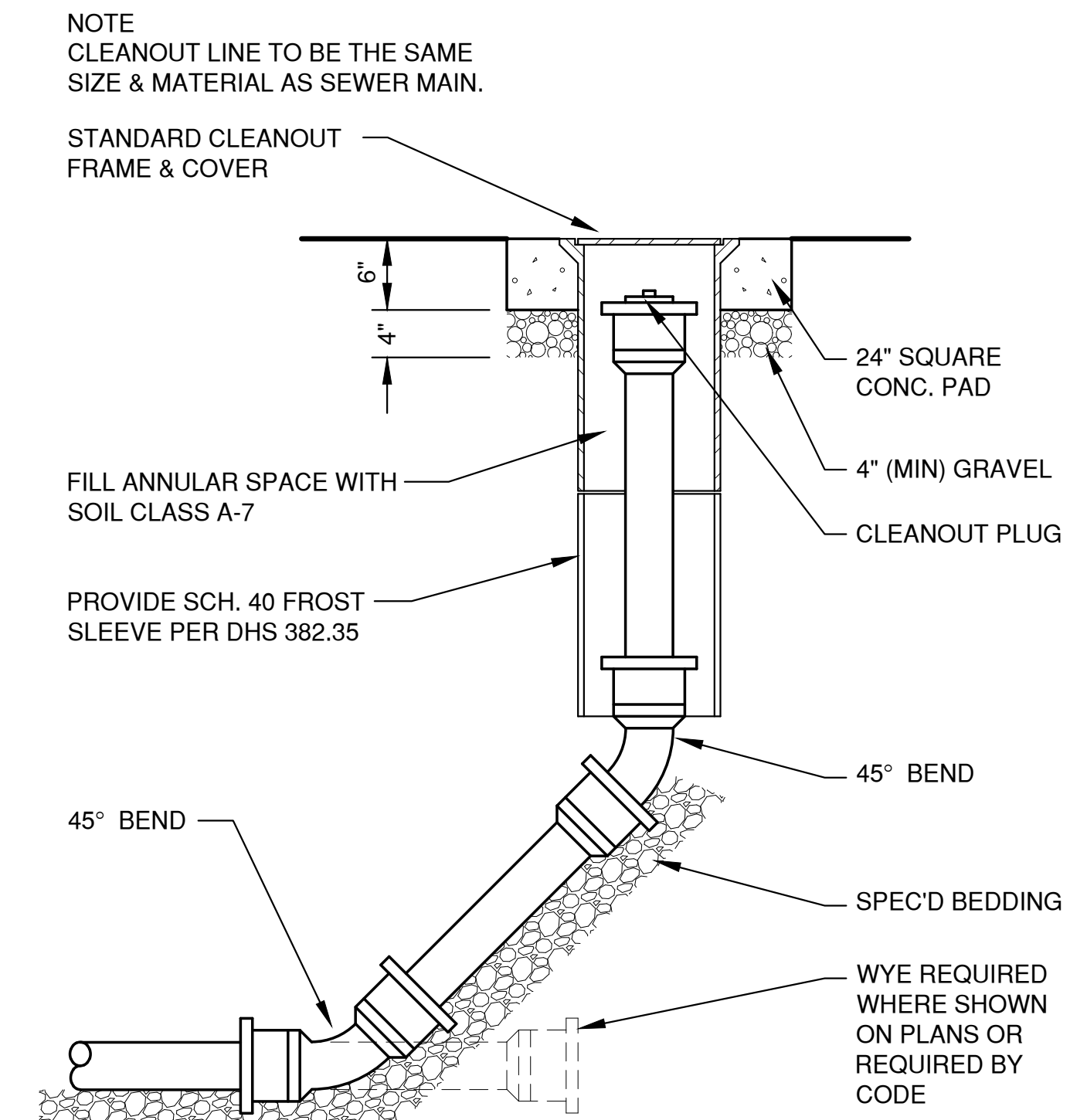
- CLAY LINER (2 FOOT MINIMUM)
 - IN-PLACE HYDRAULIC CONDUCTIVITY OF 1 X 10⁻⁷ CM/SEC OR LESS
 - 50% FINES (200 SIEVE) OR MORE (BY WEIGHT)
 - AVERAGE LIQUID LIMIT (LL) OF 25 OR GREATER, WITH NONE LESS THAN 20
 - AVERAGE PLASTICITY INDEX (PI) OF 12 OR MORE, WITH NONE LESS THAN 10
 - CLAY INSTALLED WET OR OPTIMUM IF USING STANDARD PROCTOR, AND 2% WET OR OPTIMUM IF USING MODIFIED PROCTOR.
 - COMPACTED TO 95% FOR STANDARD AND 90% FOR MODIFIED PROCTORS
 - SMOOTH DRUM COMPACTION EQUIPMENT IS NOT ALLOWED FOR CLAY COMPACTION
 - CLAY SHALL BE PLACED IN LIFTS NO GREATER THAN 6" PRIOR TO COMPACTION
 - CLAY SHALL BE DISKED OR OTHERWISE MECHANICALLY PROCESSED BEFORE COMPACTION TO BREAK UP CLOUDS.
 - MAXIMUM CLOUD SIZE IS 4"
- HIGH DENSITY POLYETHYLENE (HDPE) LINER
 - MINIMUM THICKNESS SHALL BE 40 MILS
 - DESIGN ACCORDING TO THE CRITERIA IN TABLE 3 OF THE NRCS WASTEWATER STORAGE FACILITY TECHNICAL STANDARD 313
 - INSTALL ACCORDING TO NRCS WISCONSIN CONSTRUCTION SPECIFICATION 202, POLYETHYLENE GEOMEMBRANE LINING
- POLYETHYLENE POND LINER (PPL)
 - MINIMUM THICKNESS SHALL BE 30 MILS
 - DESIGN ACCORDING TO THE CRITERIA IN TABLE 3 OF THE NRCS WASTEWATER STORAGE FACILITY TECHNICAL STANDARD 313
 - INSTALL ACCORDING TO NRCS WISCONSIN CONSTRUCTION SPECIFICATION 202, POLYETHYLENE GEOMEMBRANE LINING



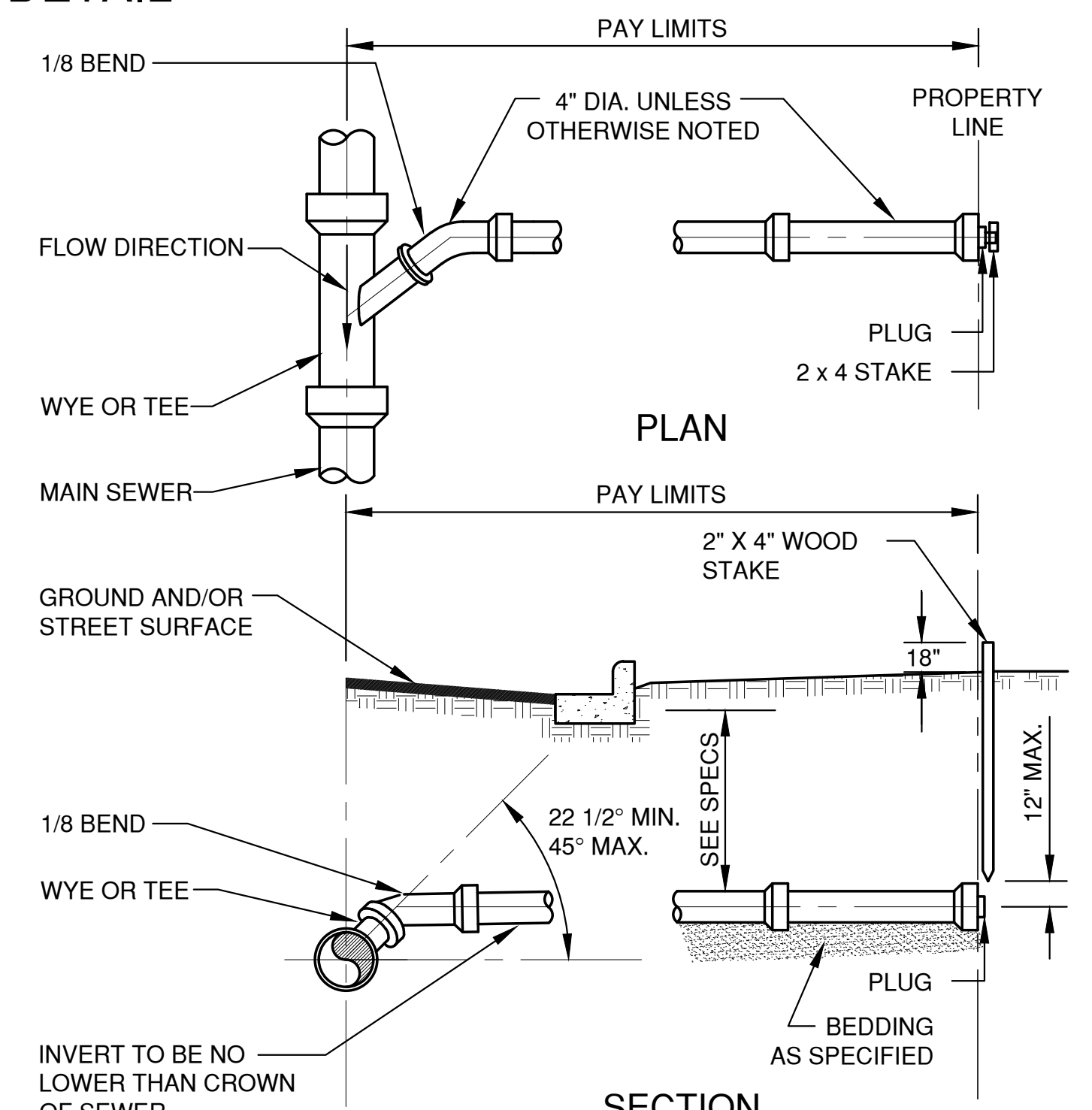
**MANHOLE BASE PLAN
8" - 60" (INCLUSIVE)**



**CLEAN-OUT DETAIL
(NON-TRAVELED AREAS)**



**CLEAN-OUT DETAIL
(TRAVELED AREAS)**



NOTES:
1. SADDLE CONNECTIONS NOT PERMITTED.
2. BACKFILL TO CONFORM TO MAIN SEWER.
3. MINIMUM SLOPE: 1/8 INCH PER FOOT.
4. MAXIMUM SLOPE: 1/2 INCH PER FOOT.

STANDARD SERVICE LATERAL

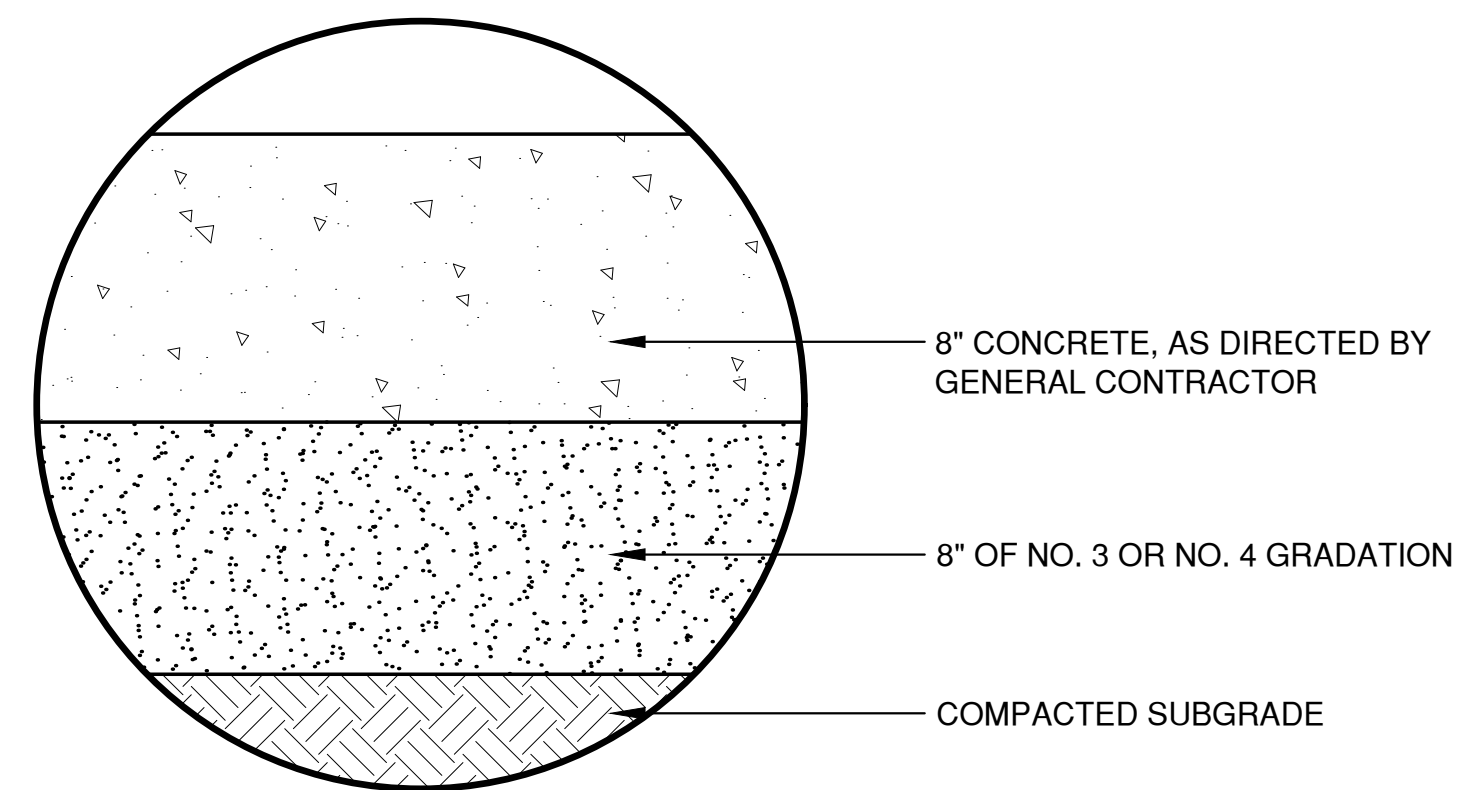
NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

PROPOSED DAYCARE FOR
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VILLAGE OF ALLOUEZ
BROWN COUNTY, WISCONSIN

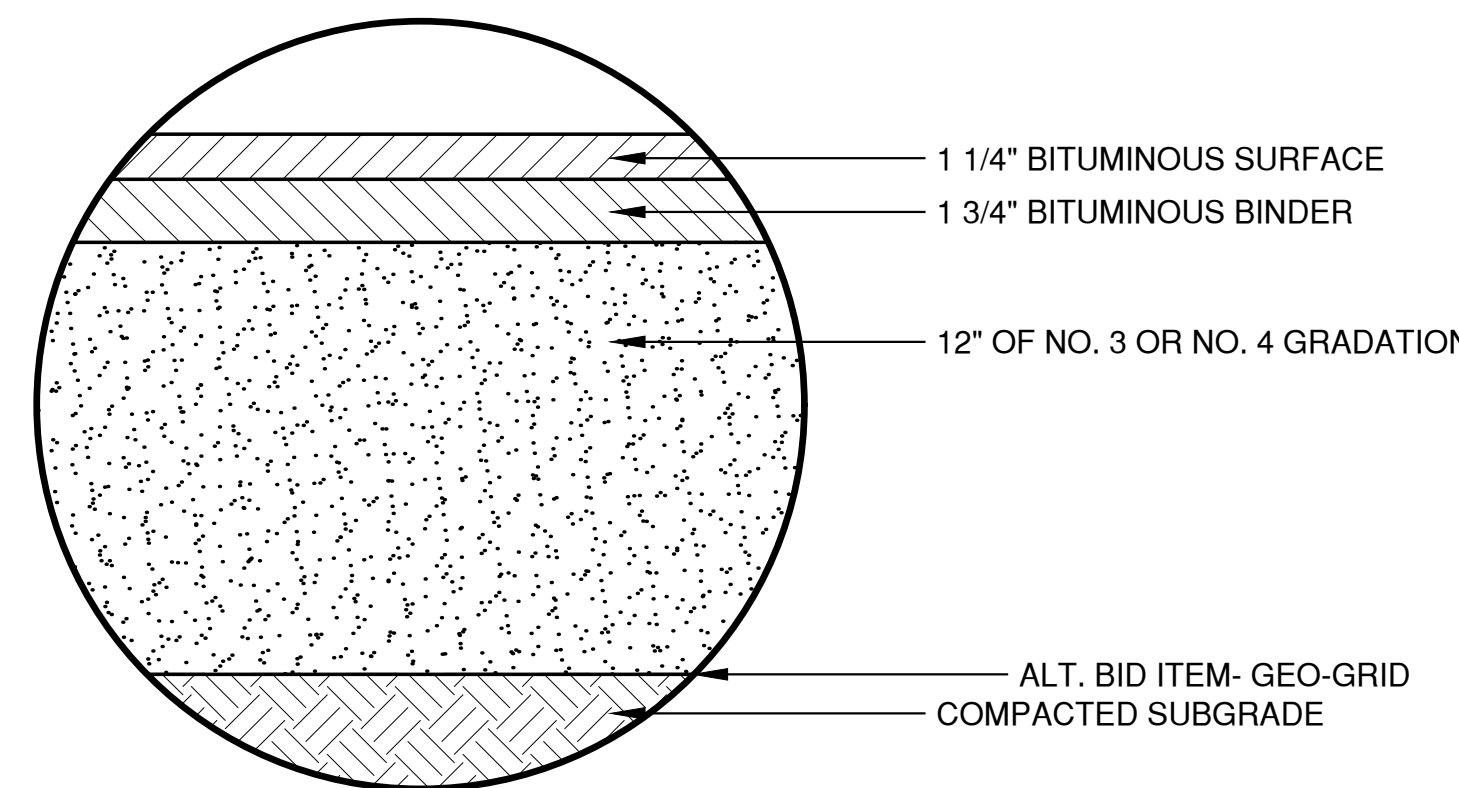
MISCELLANEOUS DETAILS

DATE
11/2019
FILE
DETAILS
JOB NO.
5642014

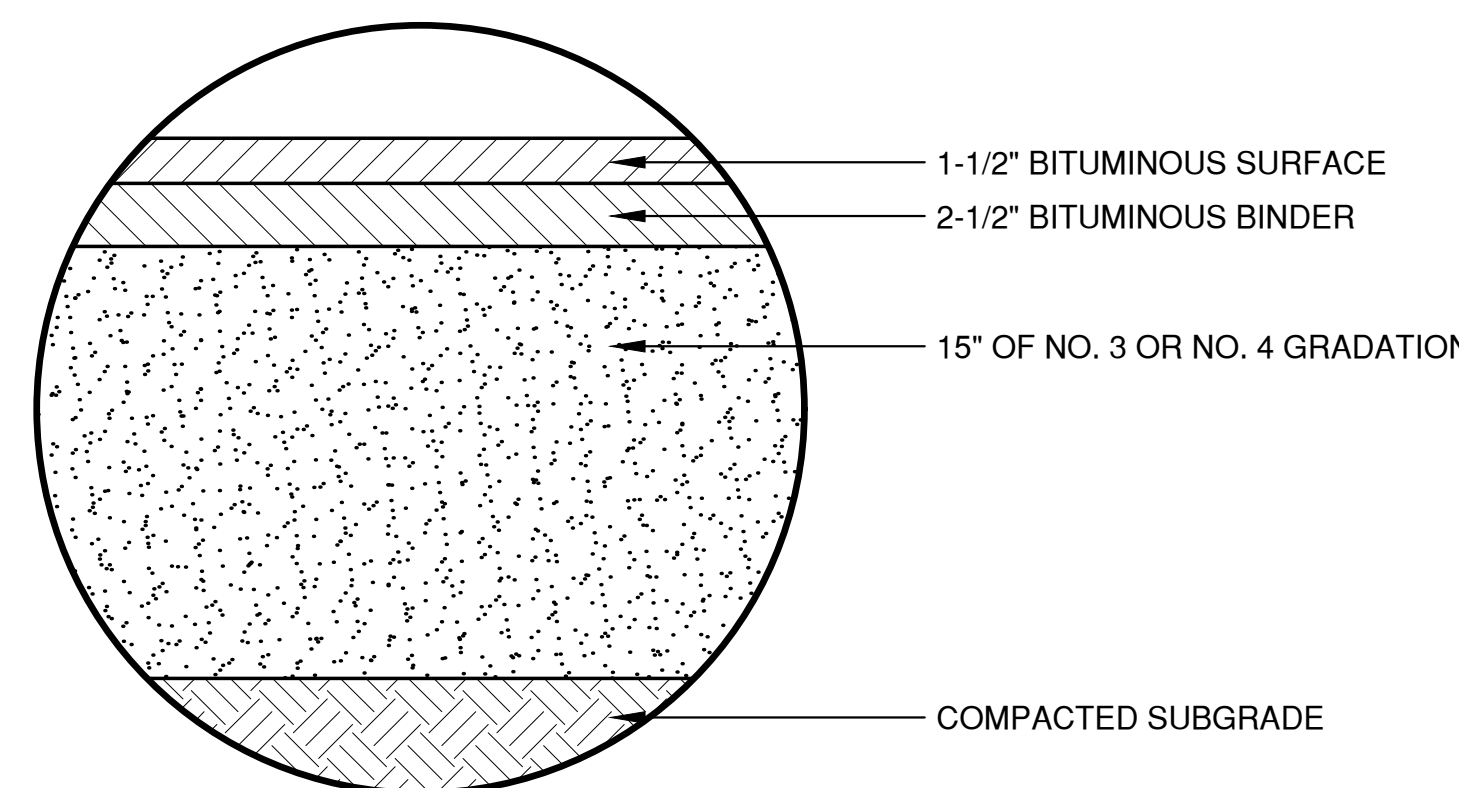
Robert E. Lee & Associates, Inc.
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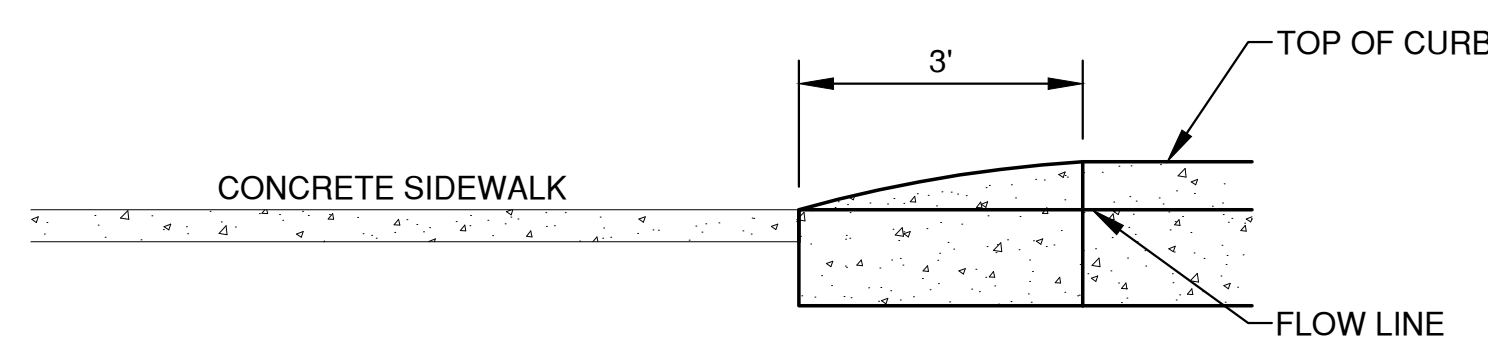
CONCRETE PAVEMENT



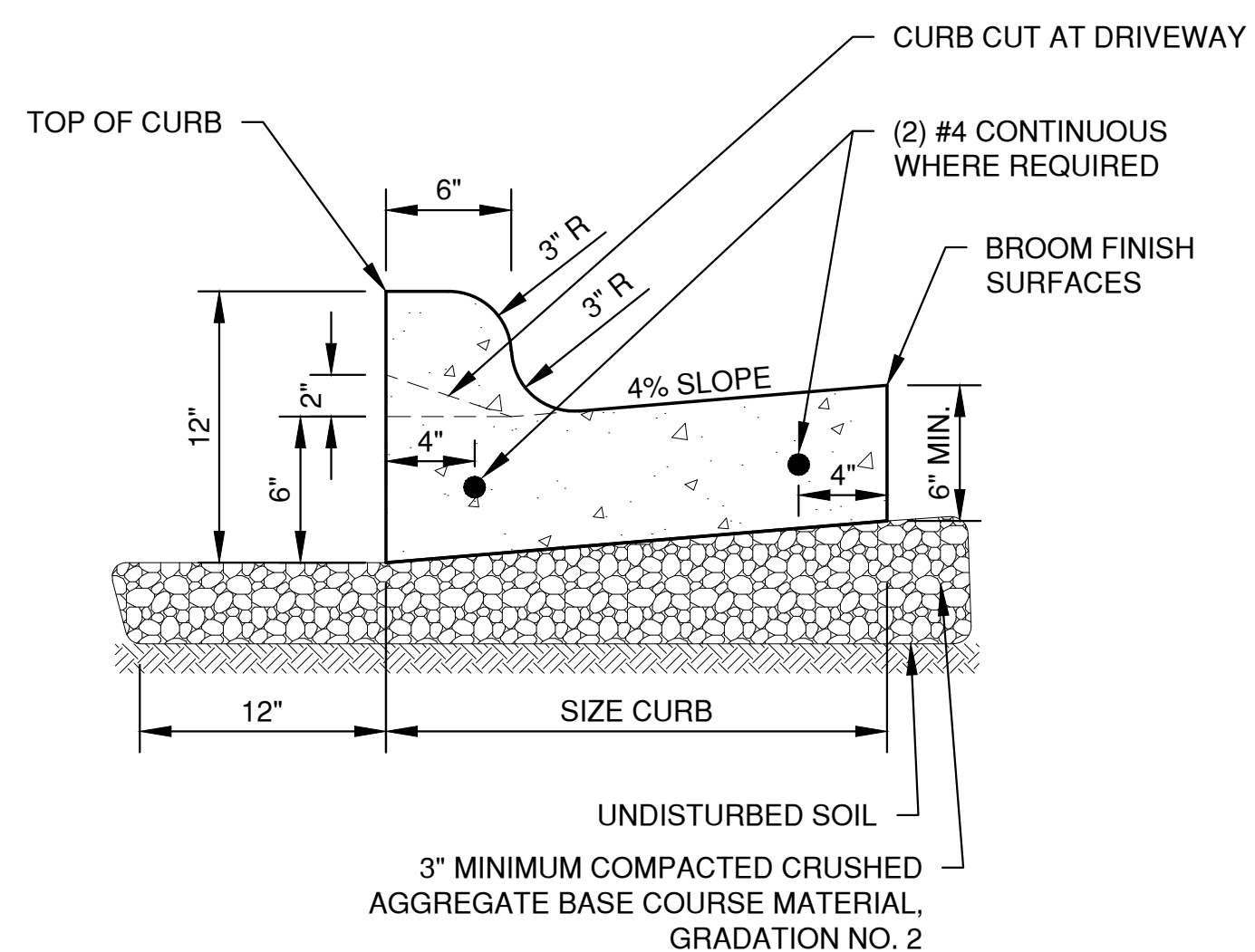
LIGHT DUTY ASPHALT PAVEMENT



HEAVY DUTY ASPHALT PAVEMENT

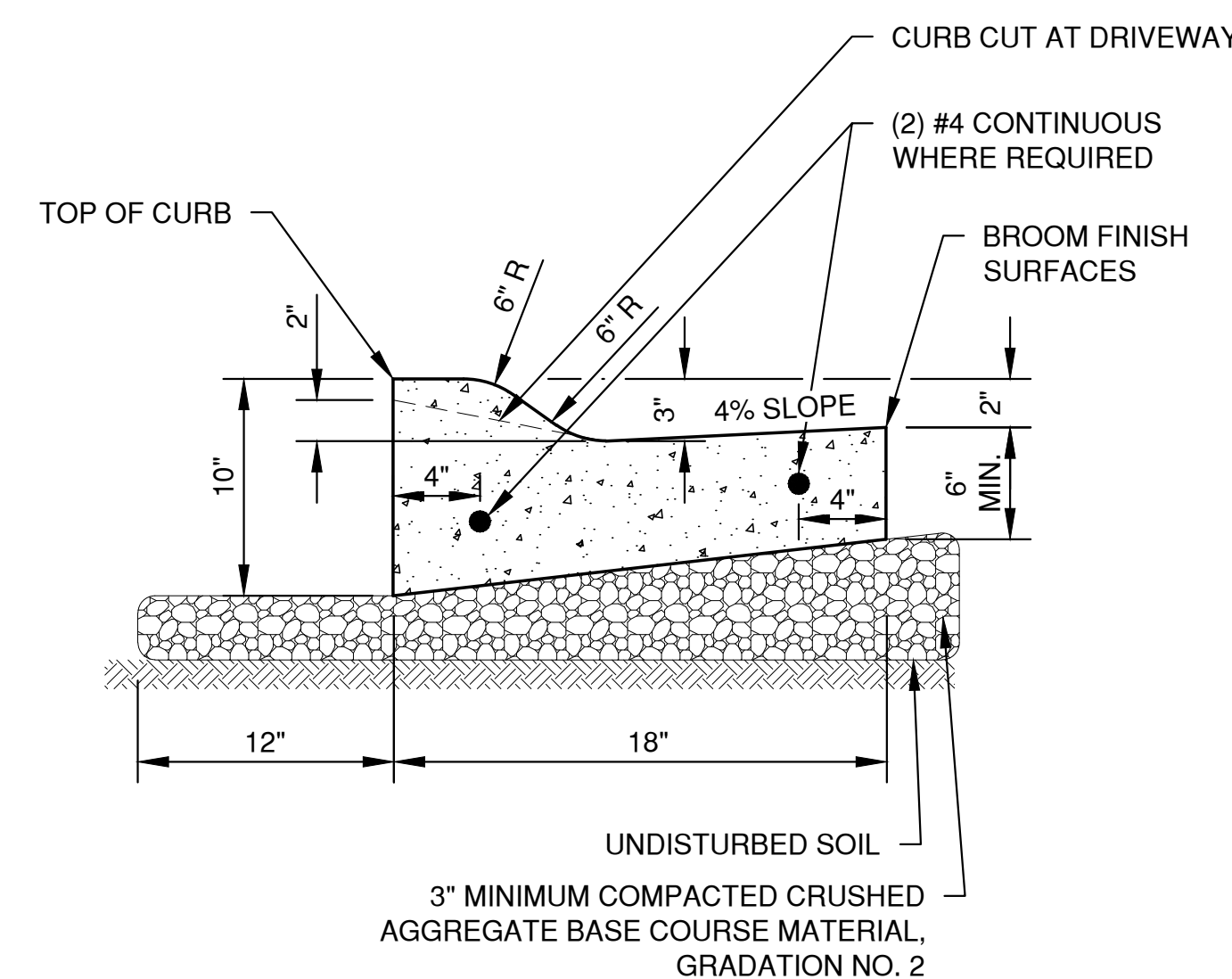


CURB TAPER DETAIL



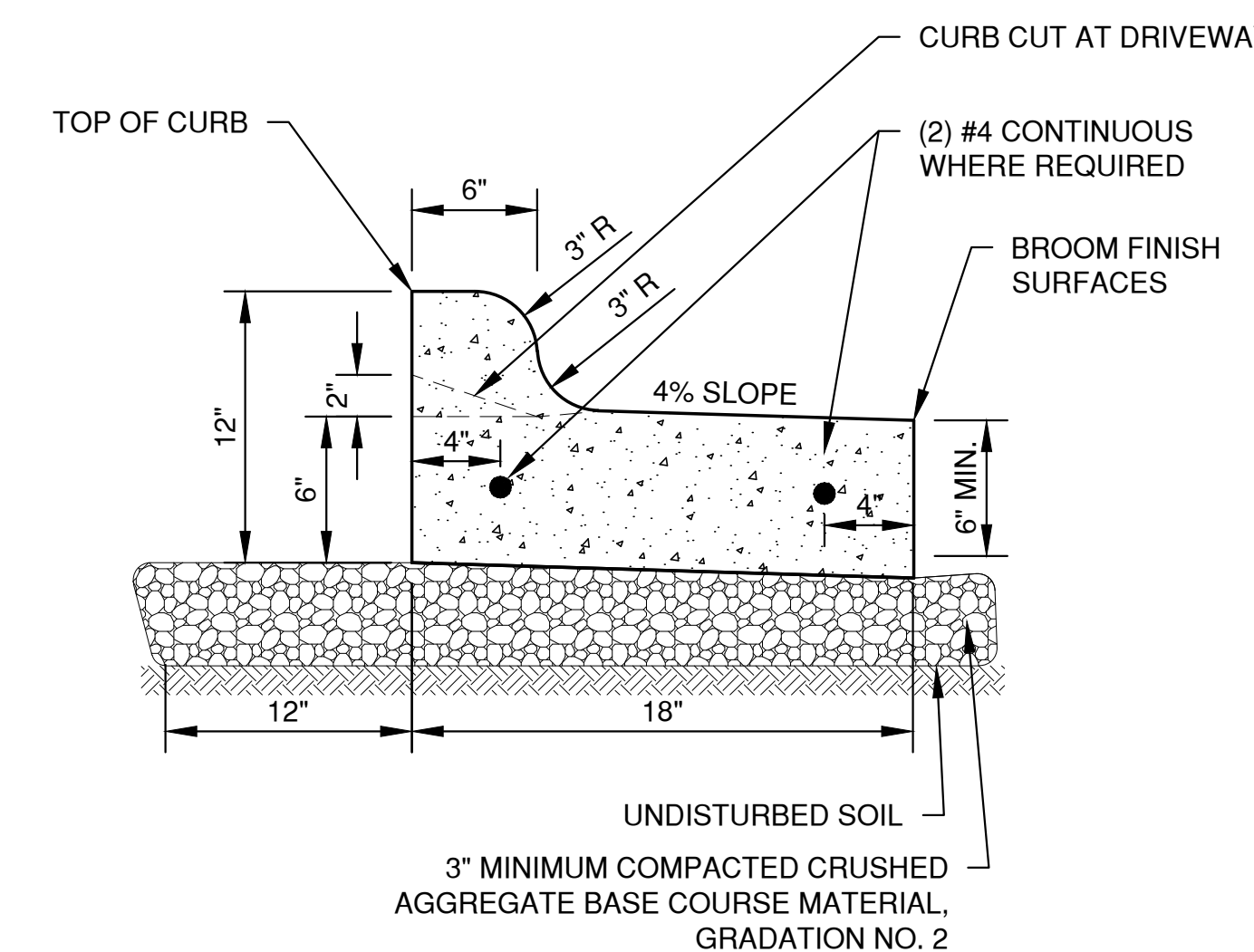
- NOTES:
1. PROVIDE 1" EXPANSION JOINTS AT 300' INTERVALS OR AS SPECIFIED. PROVIDE CONTRACTION JOINTS EVERY 30' OR AS DIRECTED.
 2. AT REMOVAL AND REPLACEMENT AREAS AND AT TIE-INS TO EXISTING CURB AND GUTTER, PROVIDE (2) #5 BARS, 18" LONG. DRILL AND GROUT INTO EXISTING CURB AND GUTTER 9". MATCH EXISTING SLOPE OF EXISTING GUTTER PAN.

STANDARD CURB AND GUTTER



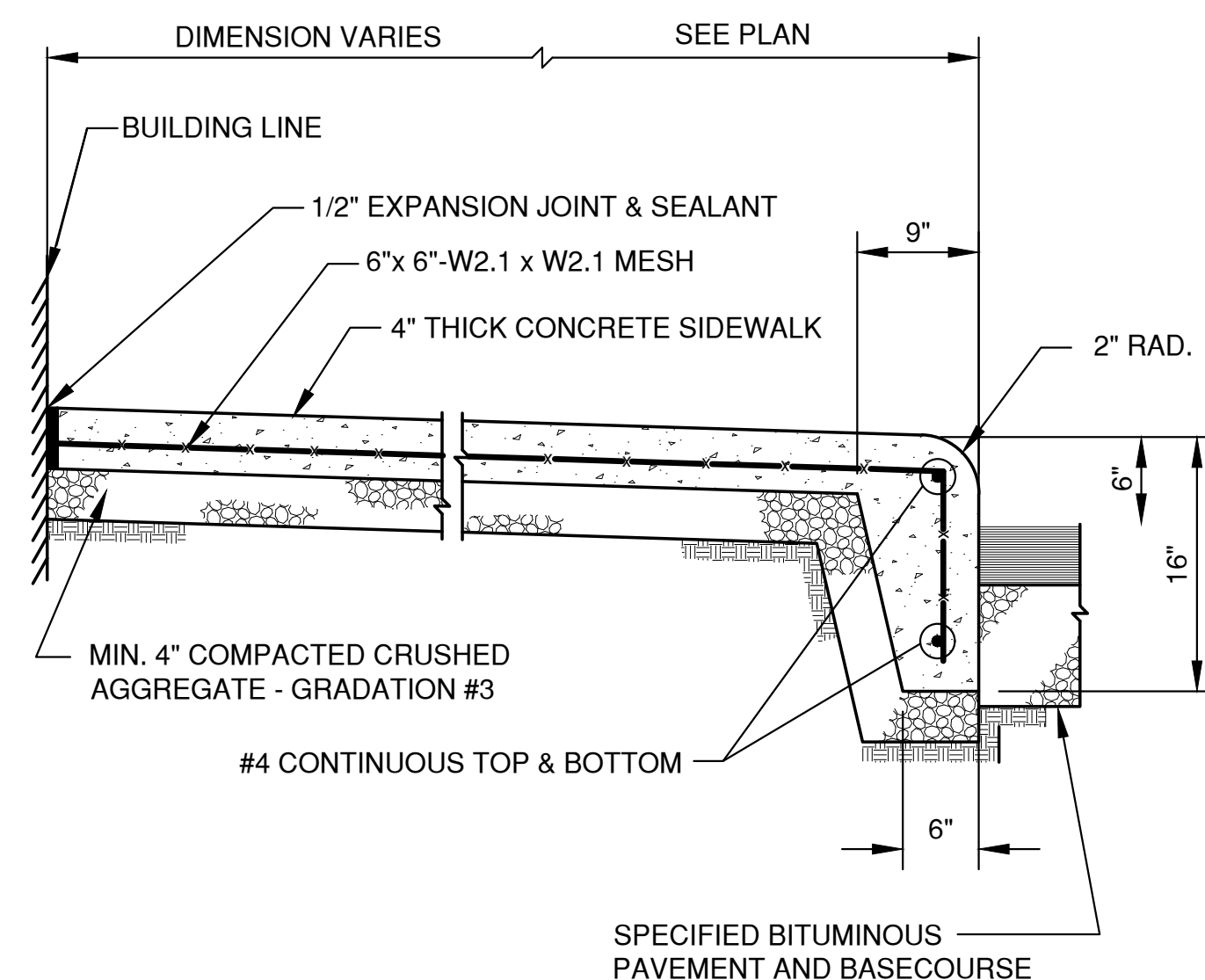
- NOTES:
1. PROVIDE 1" EXPANSION JOINTS AT 300' INTERVALS OR AS SPECIFIED. PROVIDE CONTRACTION JOINTS EVERY 30' OR AS DIRECTED.
 2. AT REMOVAL AND REPLACEMENT AREAS AND AT TIE-INS TO EXISTING CURB AND GUTTER, PROVIDE (2) #5 BARS, 18" LONG. DRILL AND GROUT INTO EXISTING CURB AND GUTTER 9". MATCH EXISTING SLOPE OF EXISTING GUTTER PAN.

MOUNTABLE CURB AND GUTTER

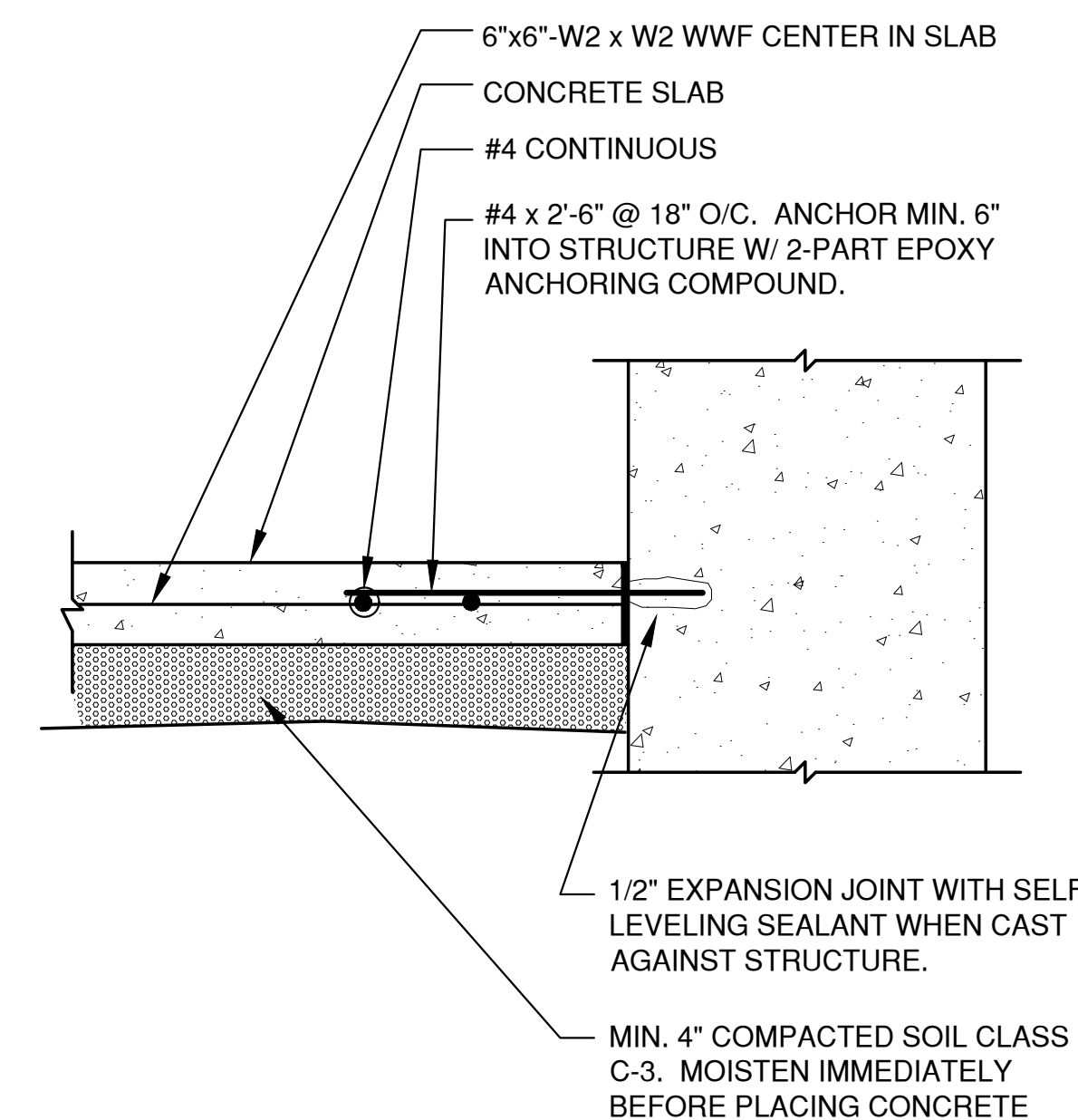


- NOTES:
1. PROVIDE 1" EXPANSION JOINTS AT 300' INTERVALS OR AS SPECIFIED. PROVIDE CONTRACTION JOINTS EVERY 30' OR AS DIRECTED.
 2. AT REMOVAL AND REPLACEMENT AREAS AND AT TIE-INS TO EXISTING CURB AND GUTTER, PROVIDE (2) #5 BARS, 18" LONG. DRILL AND GROUT INTO EXISTING CURB AND GUTTER 9". MATCH EXISTING SLOPE OF EXISTING GUTTER PAN.

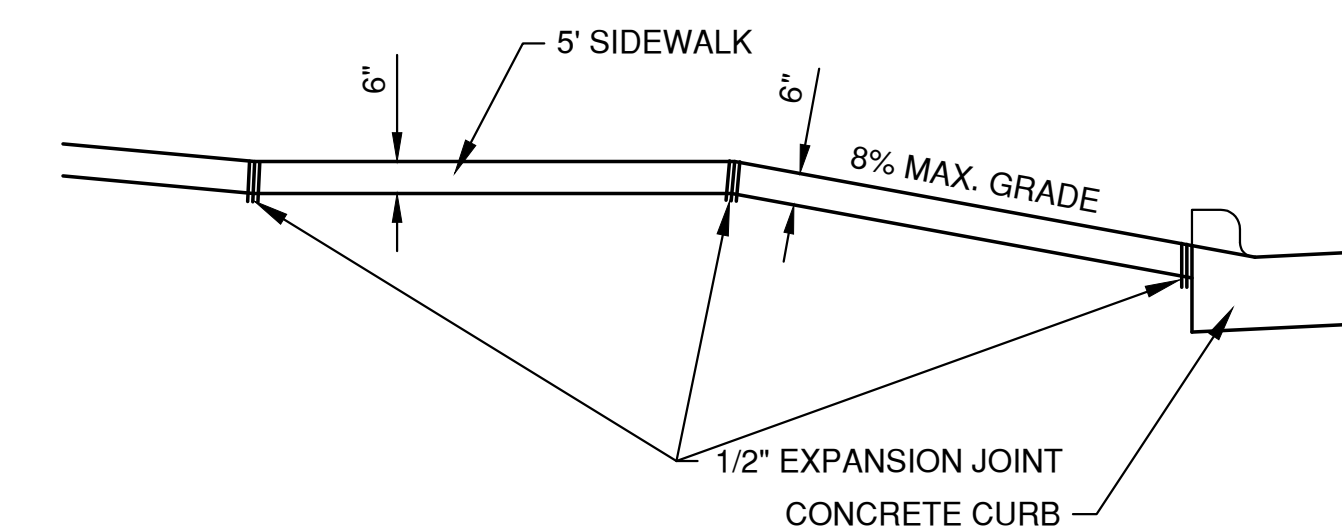
SHEDDING CURB AND GUTTER



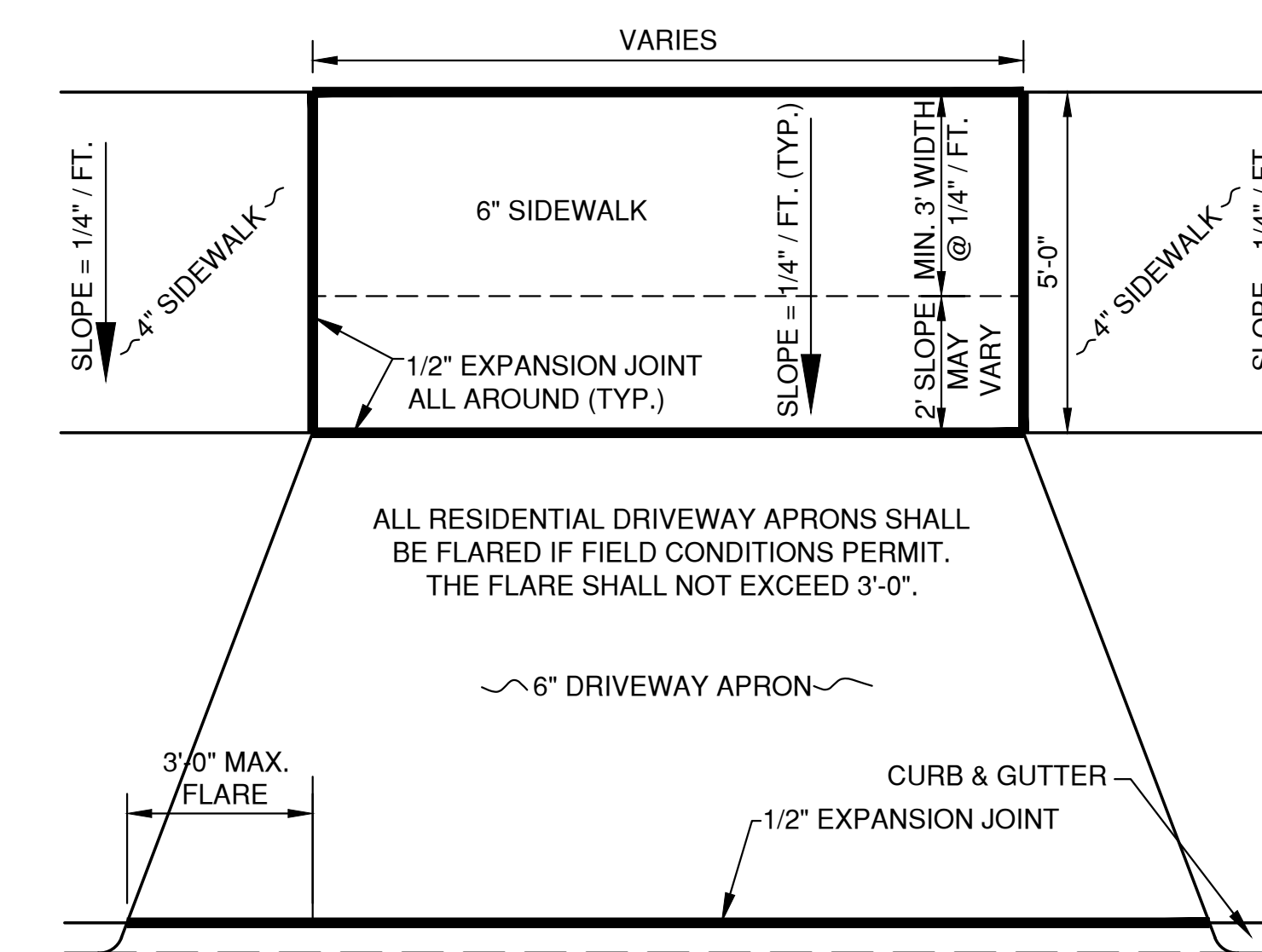
SIDEWALK WITH INTEGRAL CURB



TYPICAL SIDEWALK ADJACENT TO STRUCTURE



1/2" EXPANSION MATERIAL WILL BE PLACED ON EACH SIDE OF THE DRIVE ABUTTING THE SIDEWALK. SIDEWALK AND DRIVEWAY APRON SHALL BE CONSTRUCTED SEPARATELY UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.



DRIVEWAY APRON DETAIL

File: P:\3000\642\64201\DWG\DETAILS.dwg
 Plot Date: Nov 21, 2019 10:33am
 LAYOUT: DETAILS (3)

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN: BLT
 CHECKED: JGS
 DESIGNED: BLT
 PROPOSED DAYCARE FOR GB REAL ESTATE INVESTMENTS, LLC. VILLAGE OF ALLOUEZ BROWN COUNTY, WISCONSIN

MISCELLANEOUS DETAILS

DATE: 11/2019
 FILE: DETAILS
 JOB NO.: 5642014

Robert E. Lee & Associates, Inc.
 ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
 1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
 920-662-9641 www.releecinc.com

SHEET NO. **8**

INLET PROTECTION NOTES:

INLET PROTECTION DEVICES SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1060, STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITES.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE WDOT PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

MAINTENANCE NOTES:

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.

**INSTALLATION NOTES:
TYPE "B" AND "C"**

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE "D"

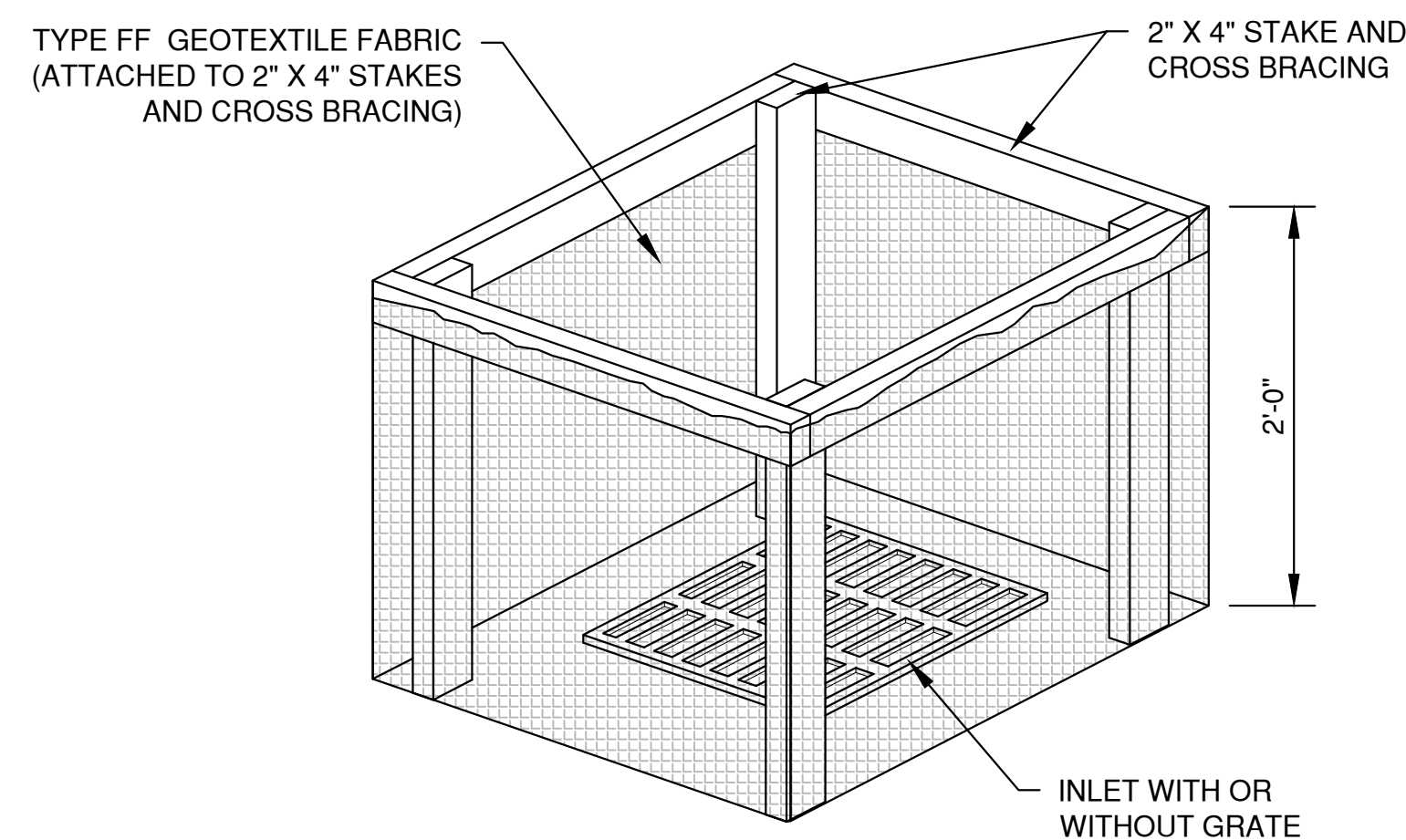
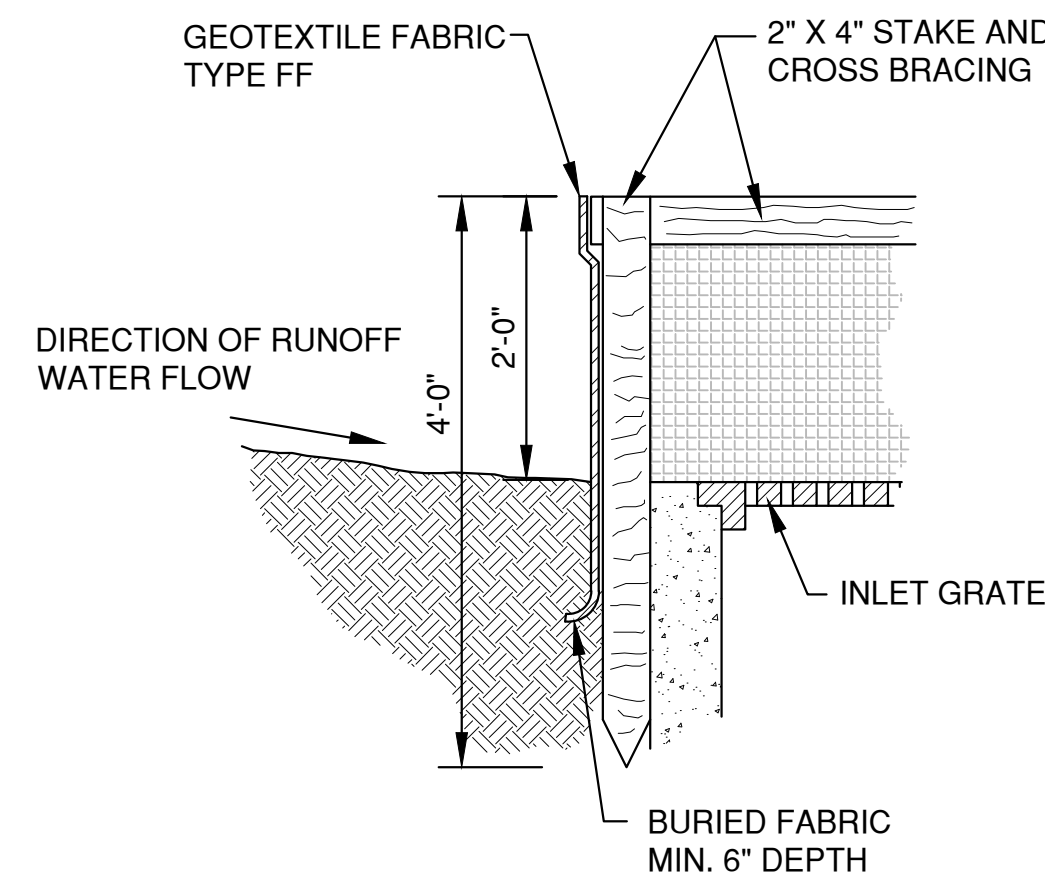
DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30" MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

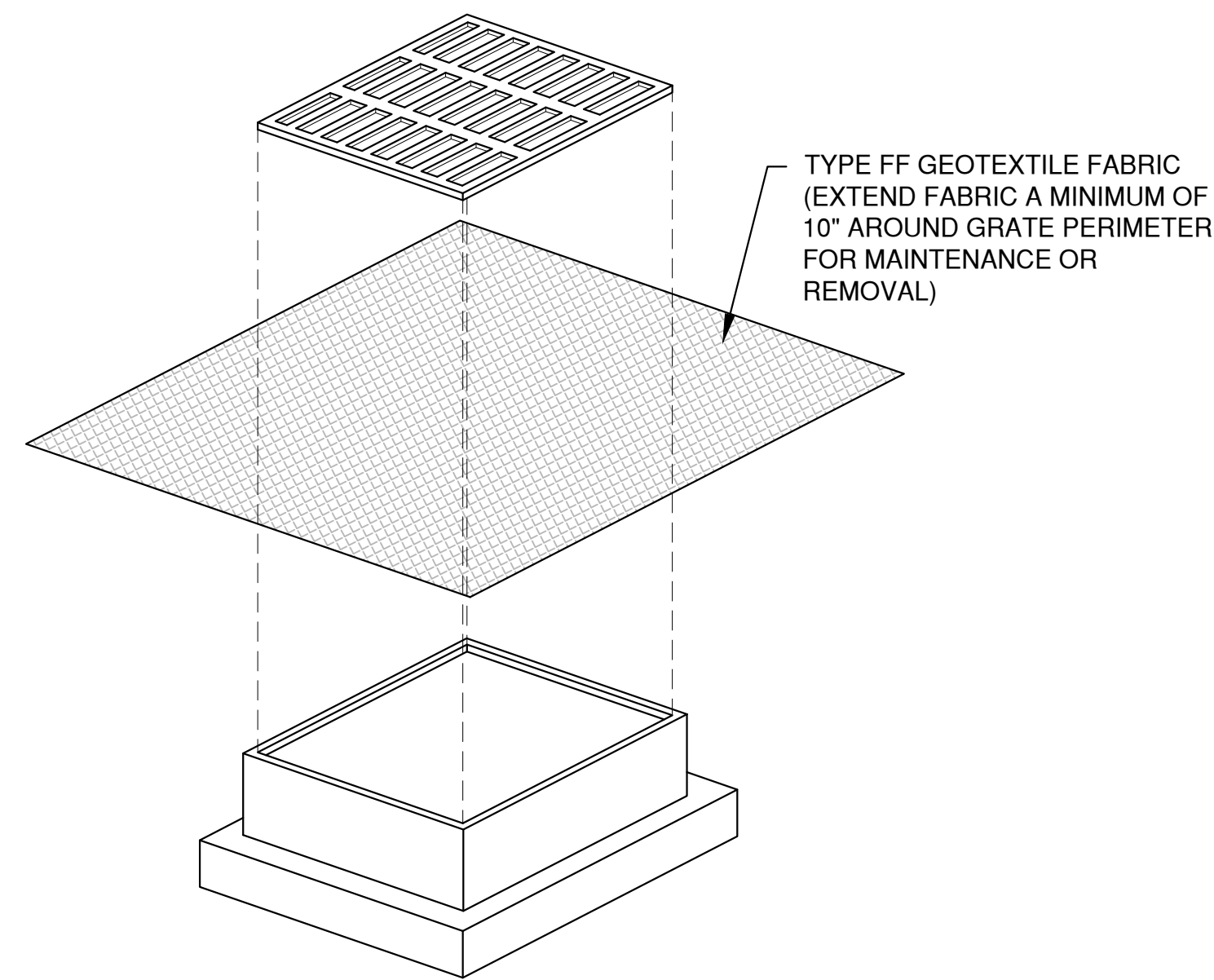
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY, CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT THE MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

NOTES:

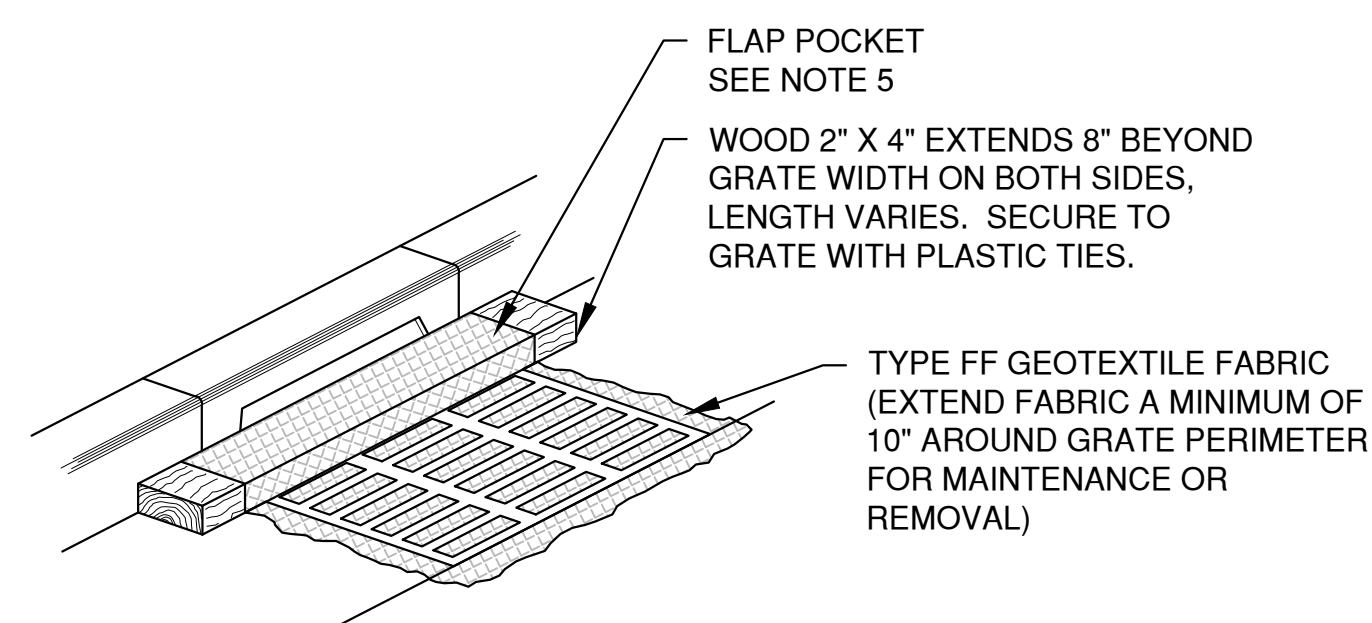
1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF THE OUTSIDE OF FILTER BAG. FRONT, BACK AND BOTTOM OF FILTER BAG BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" X 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.



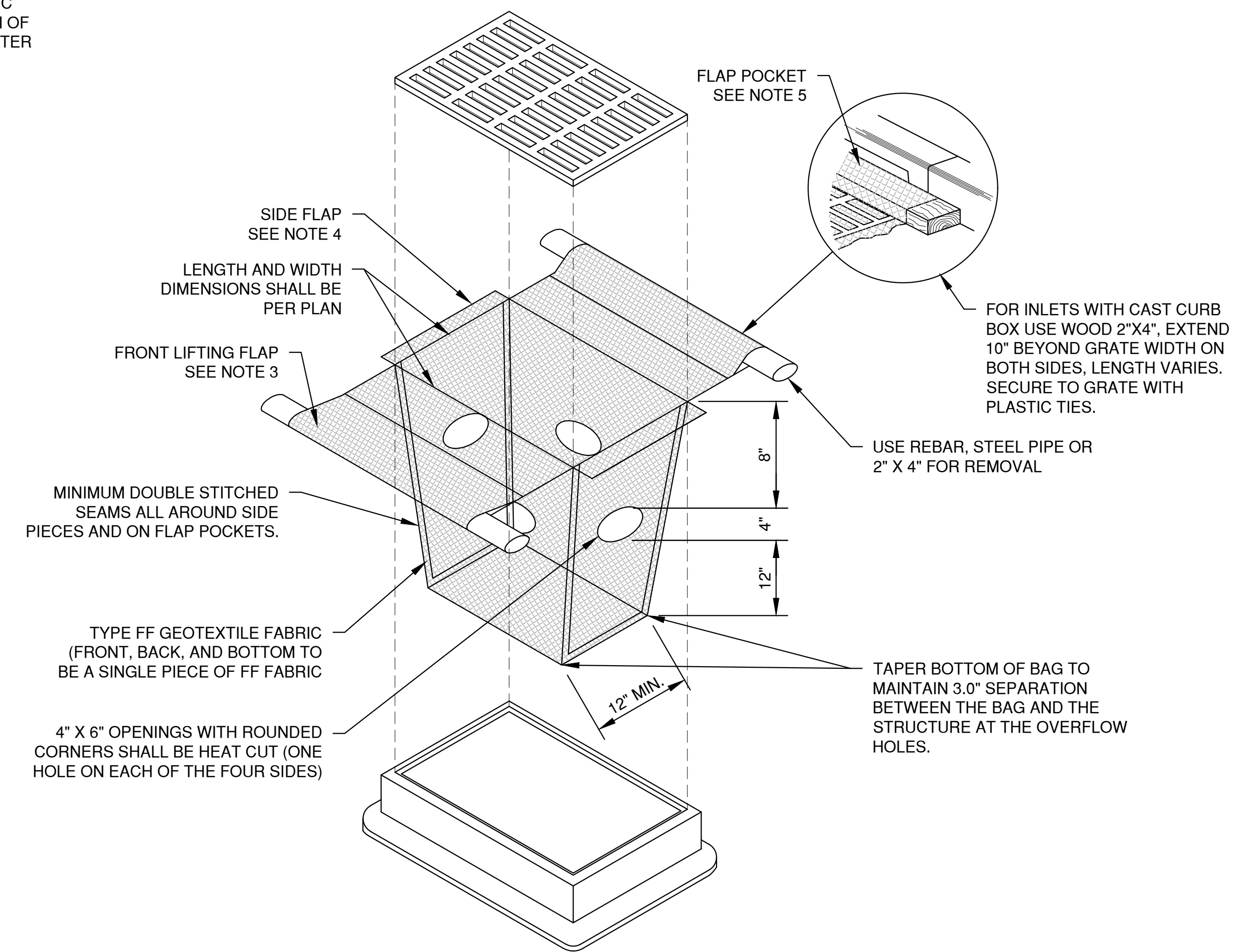
INLET PROTECTION, TYPE A



**INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)
(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)**



**INLET PROTECTION, TYPE C
(WITH CURB BOX)**



**INLET PROTECTION, TYPE D
(CAN BE INSTALLED IN INLETS WITH OR WITHOUT CURB BOXES)**

LAYOUT: I. INLET PROTECTION
DATE: 10/20/19
FILE: EROSION CONTROL
JOB NO. 5642014

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

PROPOSED DAYCARE FOR
GB REAL ESTATE INVESTMENTS, LLC.
VILLAGE OF ALLOUEZ
BROWN COUNTY, WISCONSIN

EROSION CONTROL
INLET PROTECTION TYPES A, B, C AND D
AND MISCELLANEOUS DETAILS

DATE 10/20/19
FILE EROSION CONTROL
JOB NO. 5642014

Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
920-662-9641 www.releinc.com

NOTES:

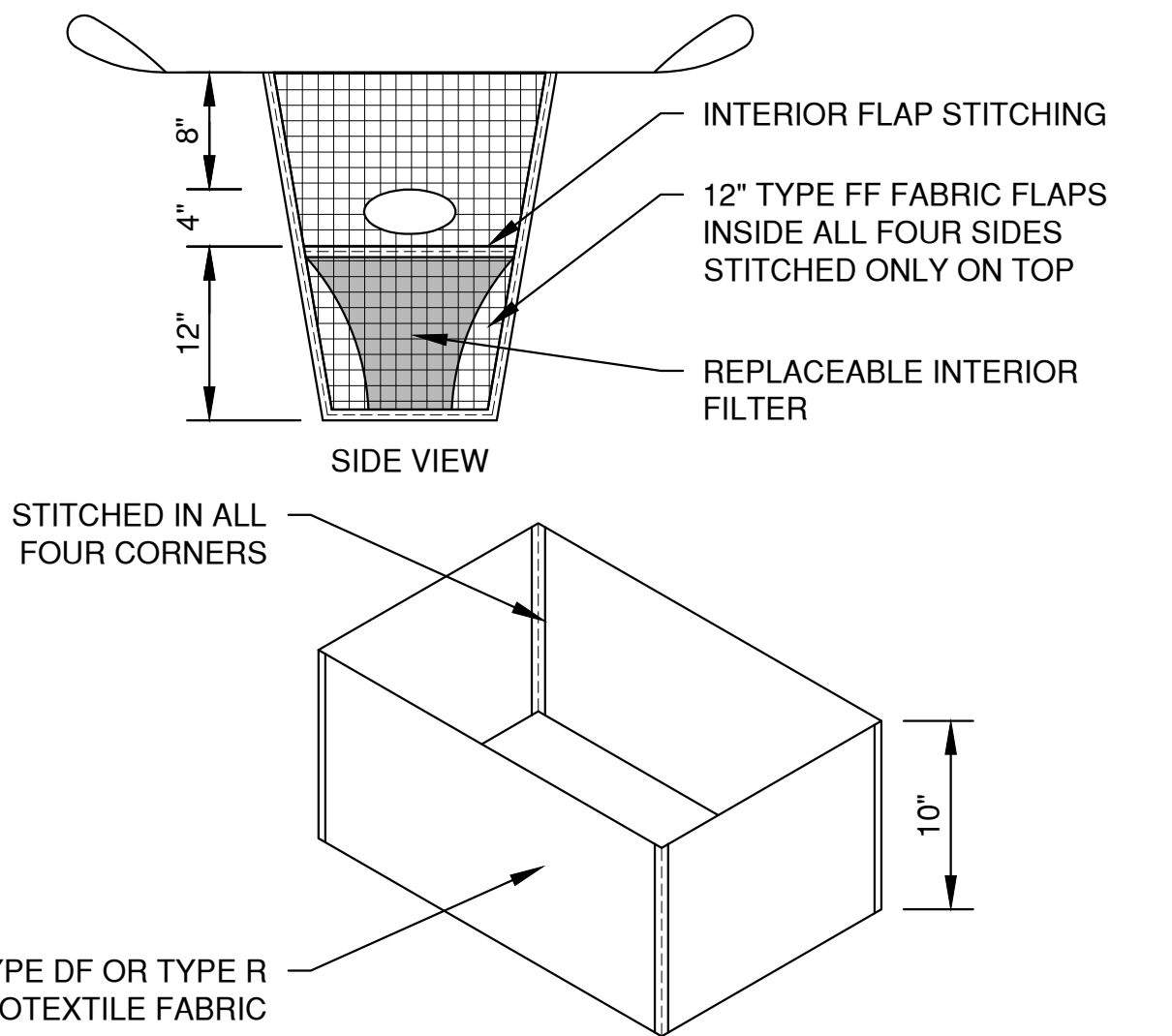
1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS AND TOP HALF OF FILTER BAG. GEOTEXTILE FABRIC TYPE HR FOR BOTTOM HALF OF FILTER BAG. FRONT, BACK AND BOTTOM OF FILTER BAG BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" X 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.

MAINTENANCE NOTES:

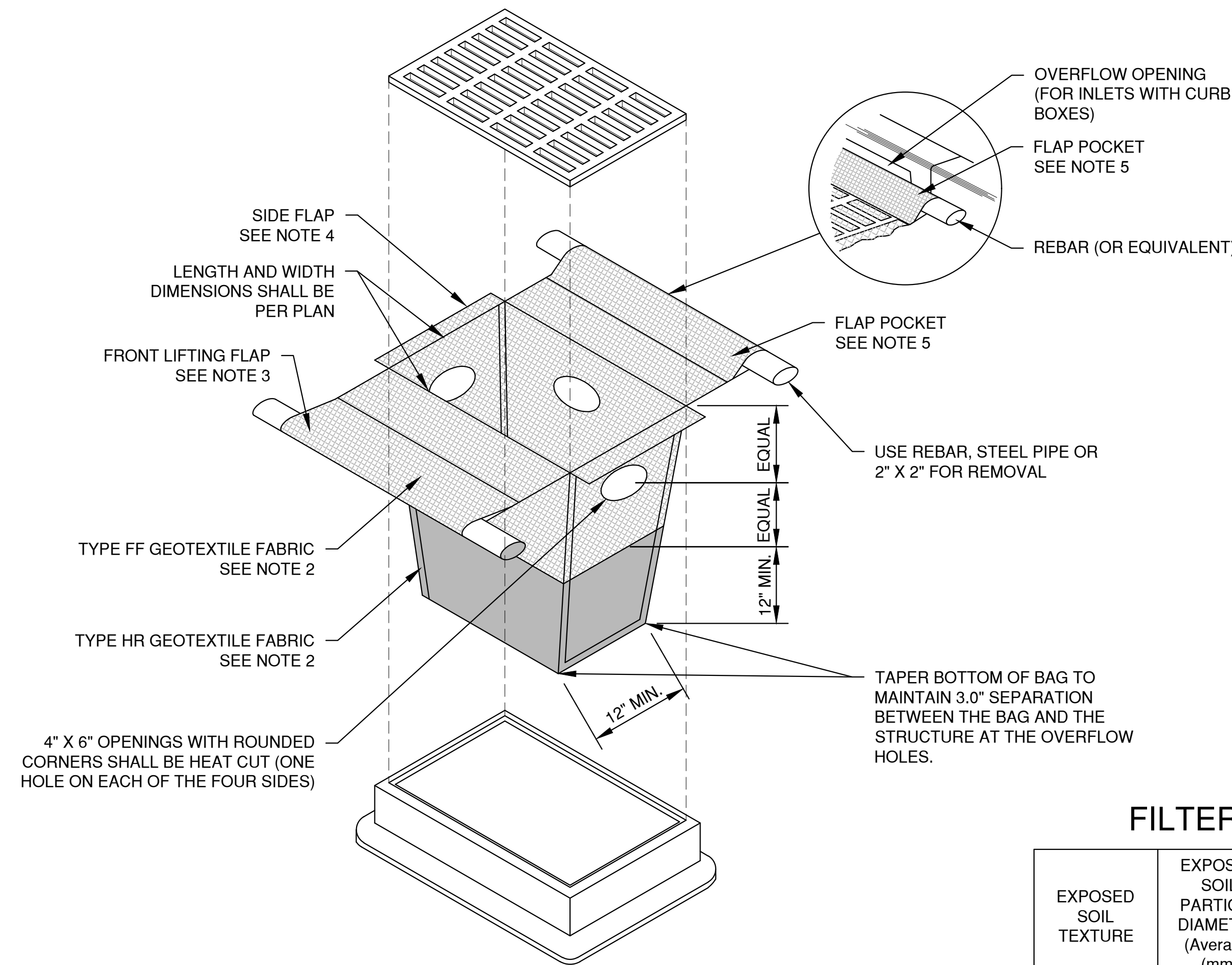
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.

NOTES:

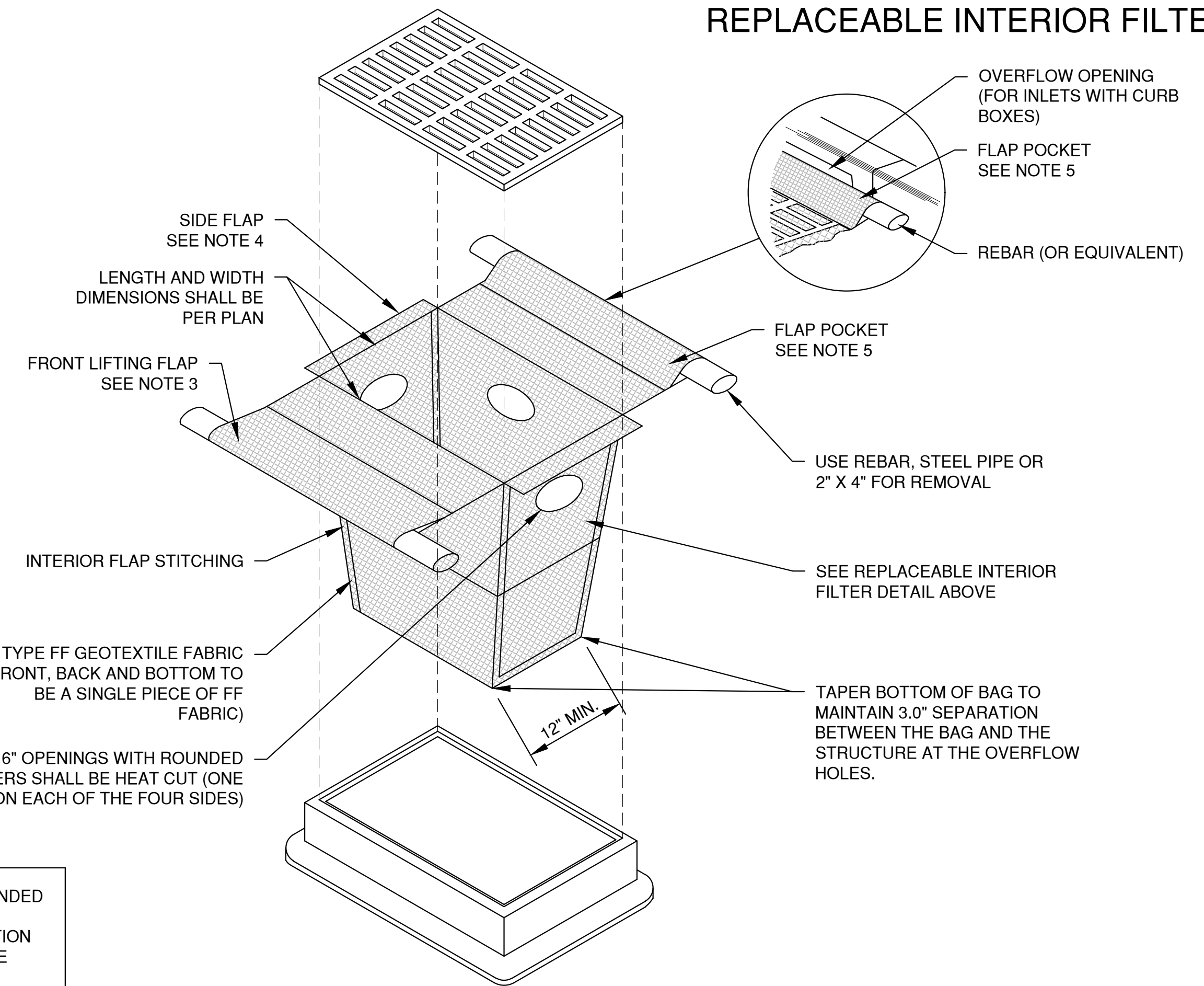
1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF OUTSIDE OF FILTER BAG. FRONT, BACK AND BOTTOM OF FILTER BAG BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
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5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" X 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.



REPLACEABLE INTERIOR FILTER



INLET PROTECTION, TYPE D-HR
(CAN BE INSTALLED IN INLETS WITH OR WITHOUT CURB BOXES)



INLET PROTECTION, TYPE D-M
(CAN BE INSTALLED IN INLETS WITH OR WITHOUT CURB BOXES)

FILTER FABRIC TYPE

EXPOSED SOIL TEXTURE	EXPOSED SOIL PARTICLE DIAMETER (Average) (mm)	FILTER FABRIC TYPE*	RECOMMENDED INLET PROTECTION DEVICE TYPE
COARSE (SAND)	≥ 0.0625	FF	D, D-M
MEDIUM (SILT LOAM)	0.0624 - 0.005	DF	D, D-M
FINE (CLAY)	≤ 0.004	R	D-M
		HR	D-HR

* DF, R OR HR FILTERS MAY BE USED WHERE FF IS THE REQUIRED MINIMUM STANDARD. R OR HR MAY BE USED WHERE DF IS THE REQUIRED MINIMUM STANDARD.

** FOLLOW DESIGN CRITERIA OF WDNR TECHNICAL STANDARD 1060

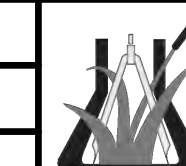
LAYOUT: 2. INLET PROTECTION File: R:\3000\5641\4620\A\EROSION CONTROL.dwg Plot Date: Nov 01, 2019 10:55:00am

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN
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								JGS
								DESIGNED
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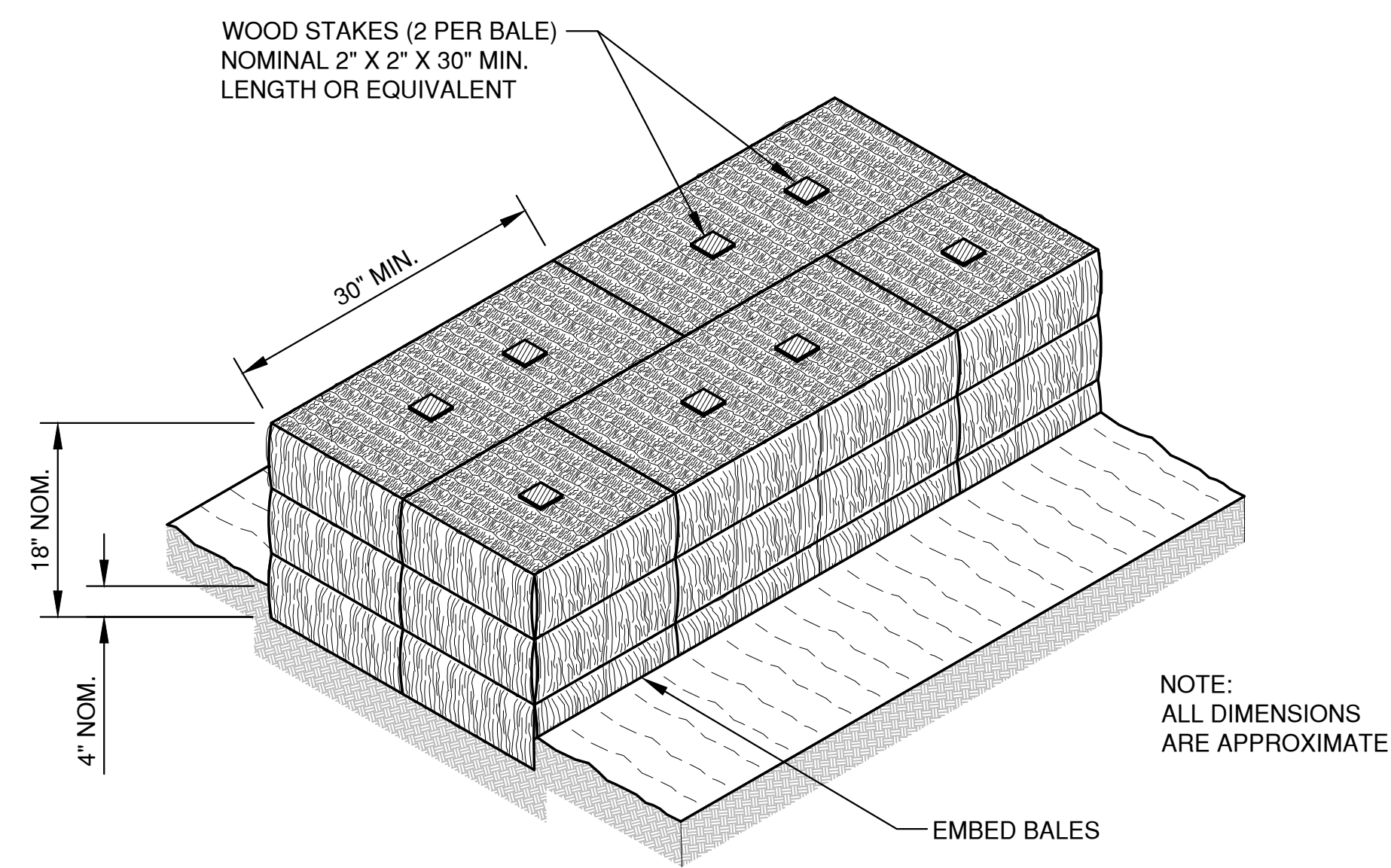
PROPOSED DAYCARE FOR
GB REAL ESTATE INVESTMENTS, LLC.
VILLAGE OF ALLOUEZ
BROWN COUNTY, WISCONSIN

EROSION CONTROL
INLET PROTECTION
TYPE D-HR AND TYPE D-M

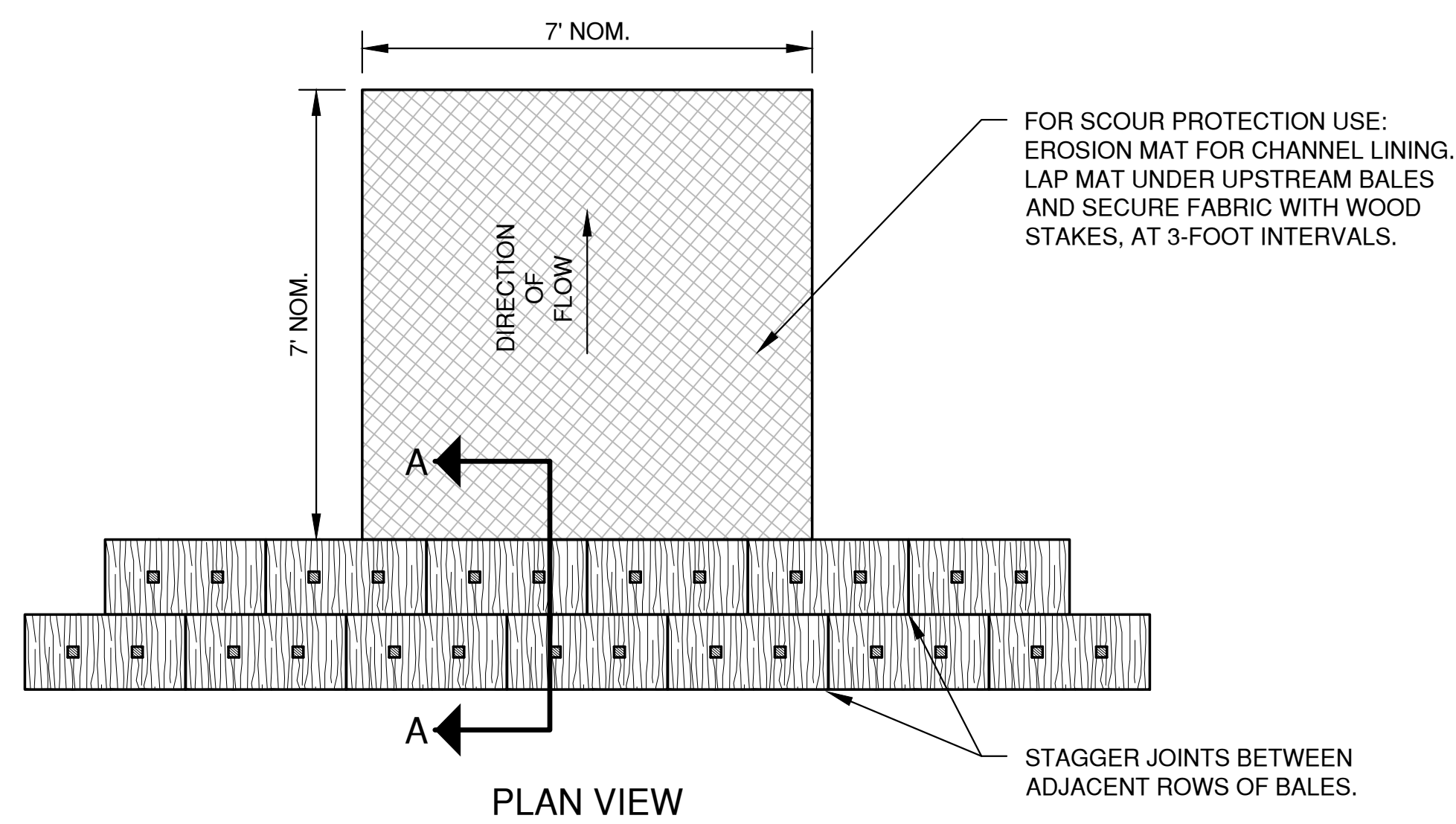
DATE	10/20/19
FILE	EROSION CONTROL
JOB NO.	5642014



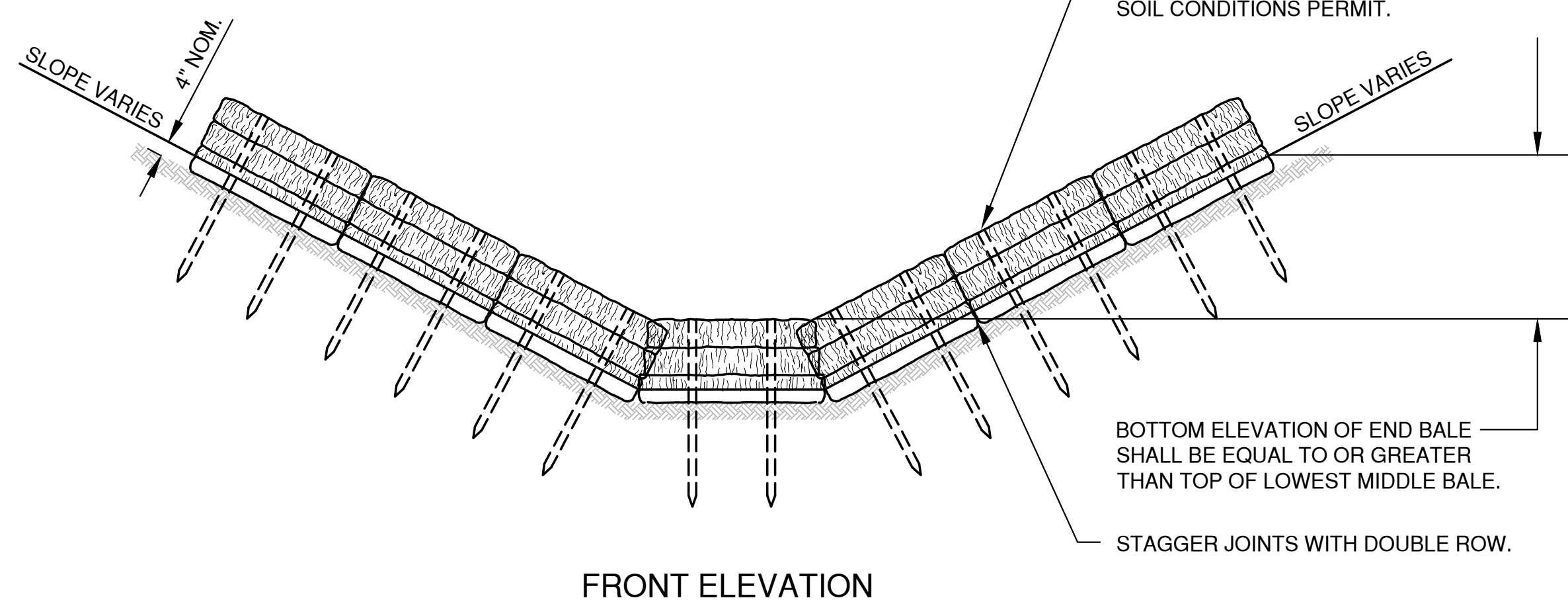
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SECTION A-A

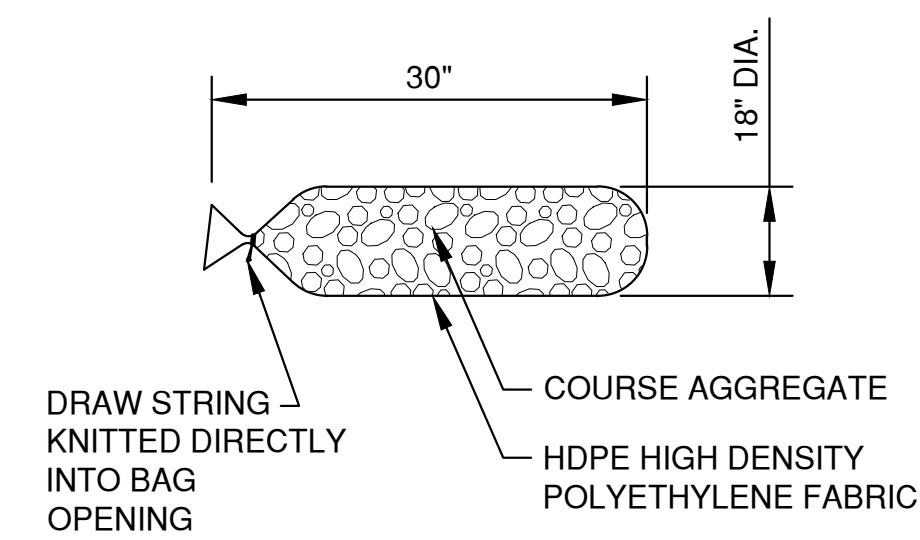


PLAN VIEW



FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES
TYPE A



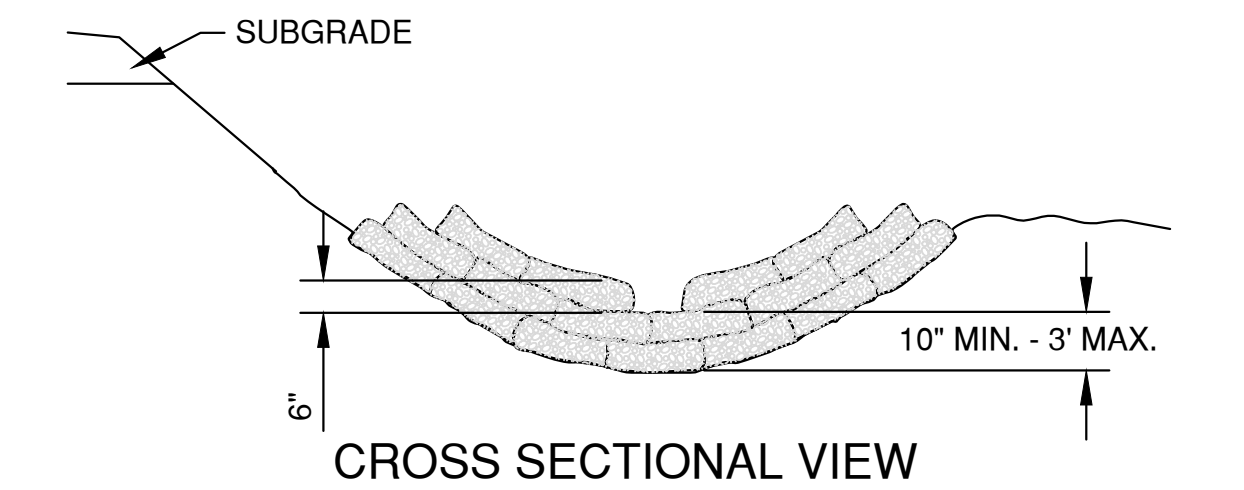
FILTER BAG DETAIL

NOTES:

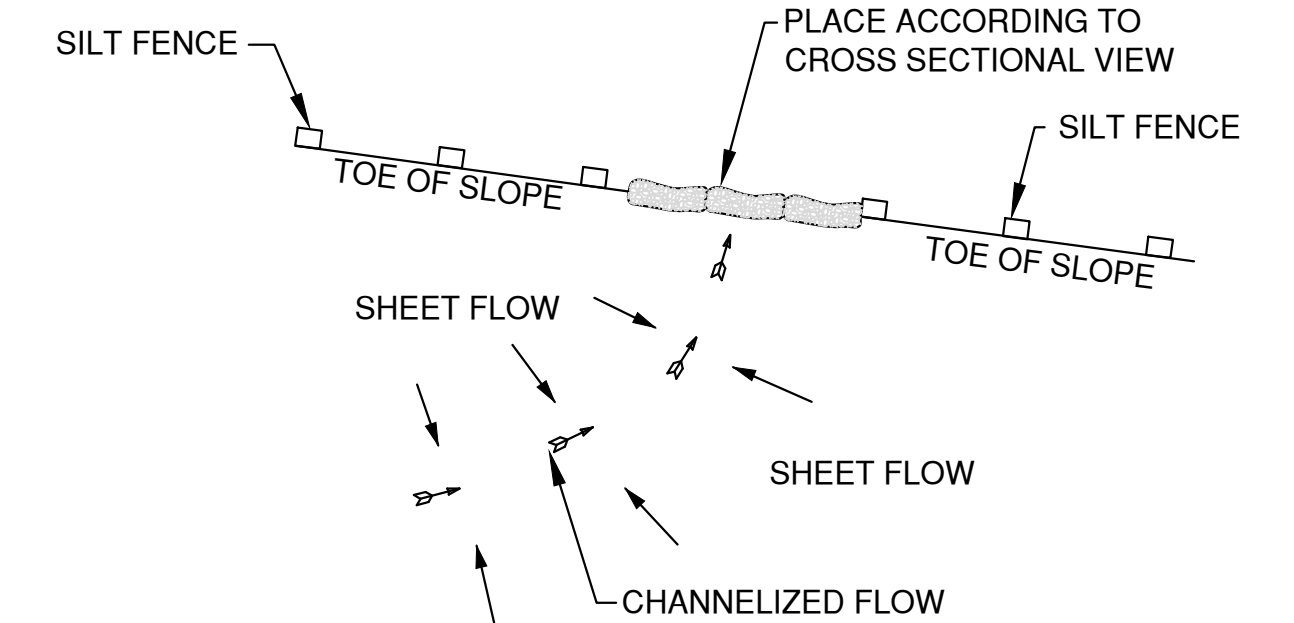
- 18" X 30" ROCK FILLED FILTER BAG SHALL BE COMPRISED OF THE FOLLOWING:
 HDPE HIGH DENSITY POLYETHYLENE
 HDPE HIGH DENSITY POLYETHYLENE DRAW STRING KNITTED DIRECTLY INTO BAG OPENING.
 80% FABRIC CLOSURE WITH APPARENT OPENING SIZE NO LARGER THAN 1/8" X 1/8"
 ROLLED SEAM USING A MINIMUM OF 480 DENIER POLYESTER SEWING YARN FOR STRENGTH AND DURABILITY.
- USE WELL GRADED COURSE AGGREGATE CONFORMING TO THE FOLLOWING GRADATION REQUIREMENTS

SIEVE SIZE	SIZE NO.	AASHTO No. 67 (1)
2 INCH (50 mm)	-	-
1 1/2 INCH (37.5mm)	-	-
1 INCH (25.0 mm)	100	100
3/4 INCH (19.0mm)	90-100	90-100
3/8 INCH (9.5mm)	20-55	20-55
No. 4 (4.75mm)	0-10	0-10
No. 8 (2.36mm)	0-5	0-5

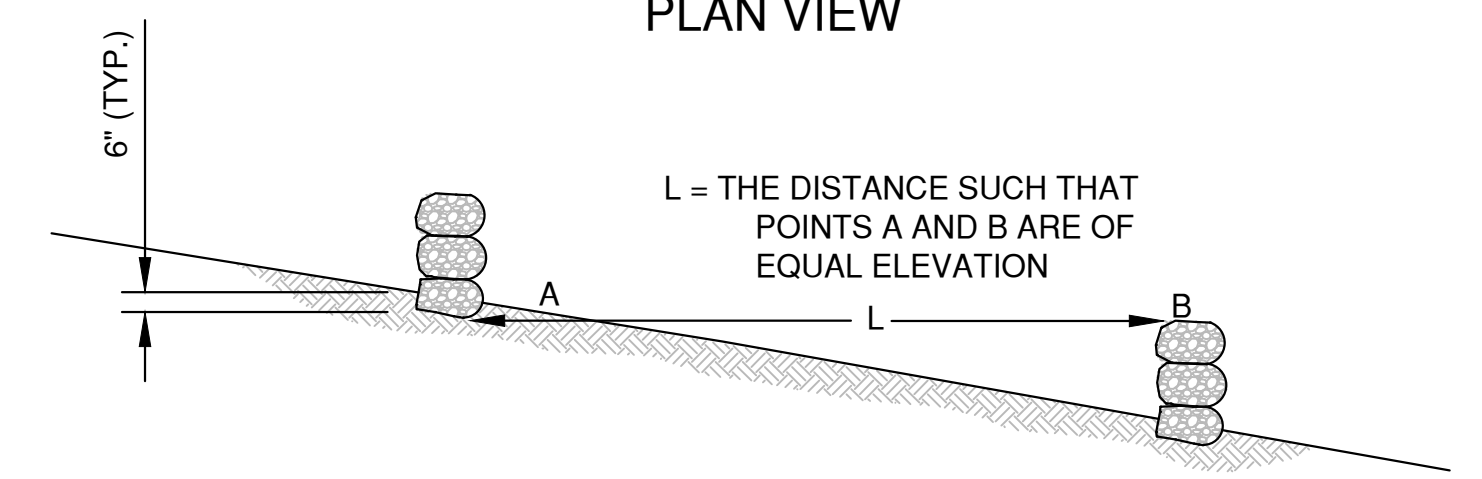
(1) SIZE No. ACCORDING TO AASHTO M 43



CROSS SECTIONAL VIEW



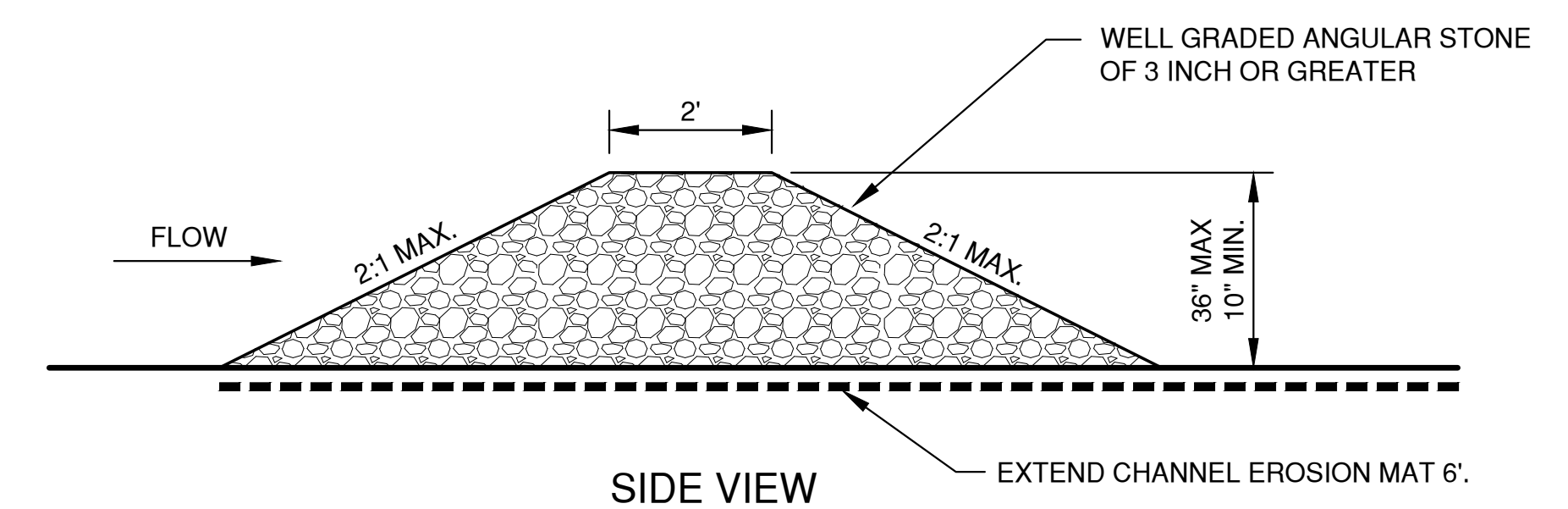
PLAN VIEW



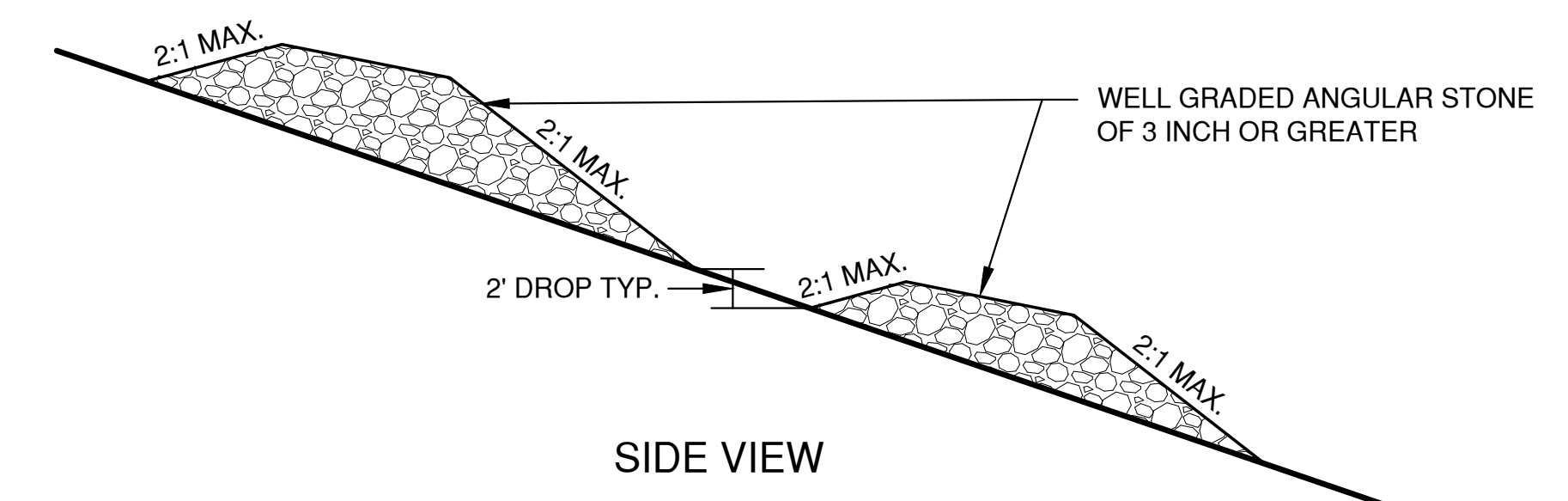
SIDE VIEW

DITCH CHECK DETAIL

ROCK FILLED EROSION CONTROL BAGS
TYPE B



SIDE VIEW



SIDE VIEW

TEMPORARY DITCH CHECK USING STONE
TYPE C

DITCH CHECK GENERAL NOTES:

- DITCH CHECKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1062.
- AT A MINIMUM, INSTALL ONE DITCH CHECK FOR EVERY 2 FEET OF VERTICAL DROP.
- DITCH CHECKS SHALL BE PLACED SUCH THAT THE RESULTING PONDING WILL NOT CAUSE AN INCONVENIENCE OR DAMAGE TO ADJACENT AREAS.

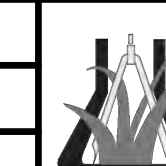
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 Plot Date: Nov 21, 2019 10:55am
 LAYOUT: 3. DITCH CHECKS

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN
								BLT
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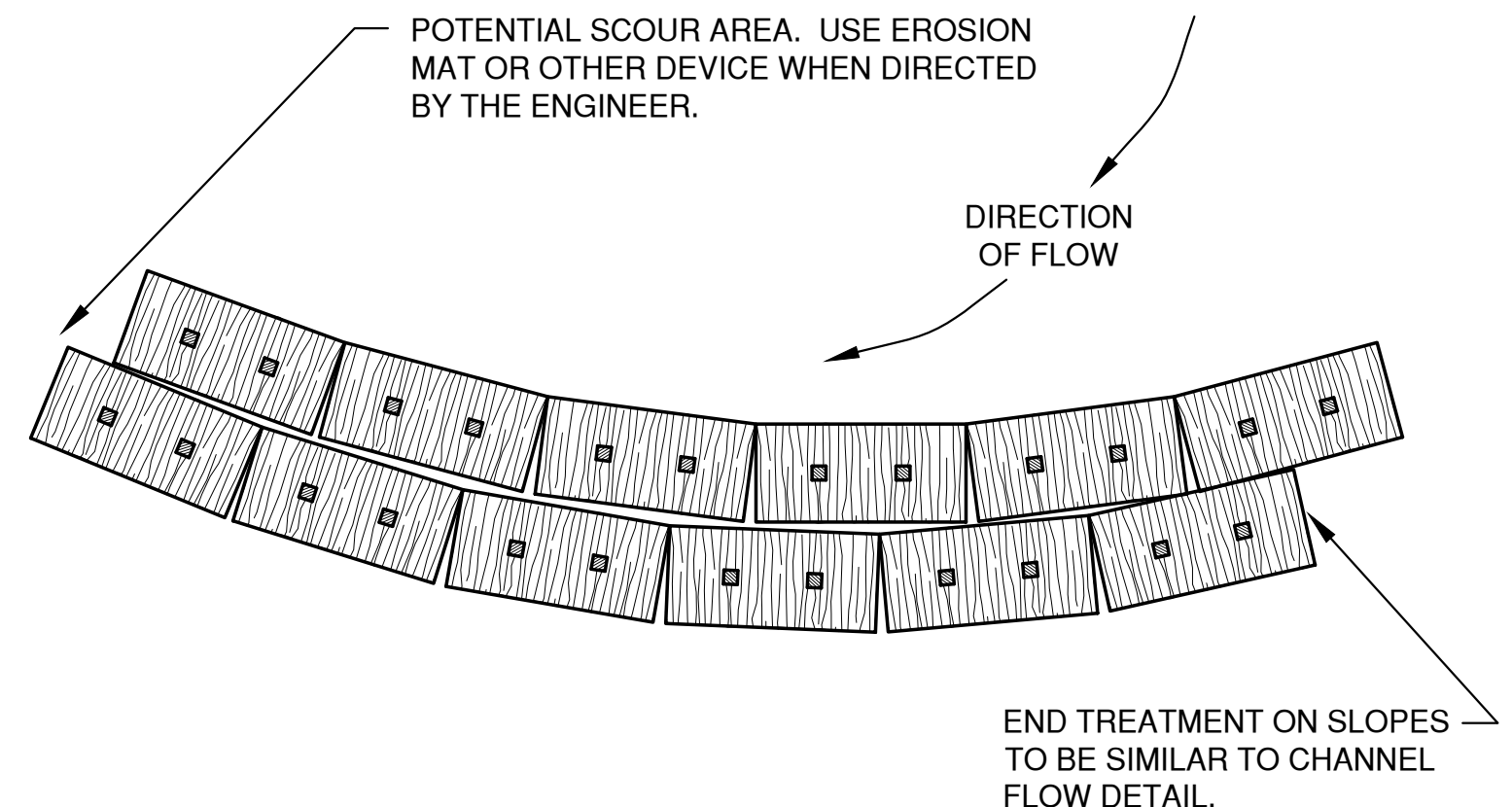
PROPOSED DAYCARE FOR
 GB REAL ESTATE INVESTMENTS, LLC.
 VILLAGE OF ALLOUEZ
 BROWN COUNTY, WISCONSIN

EROSION CONTROL
 DITCH CHECK DETAILS

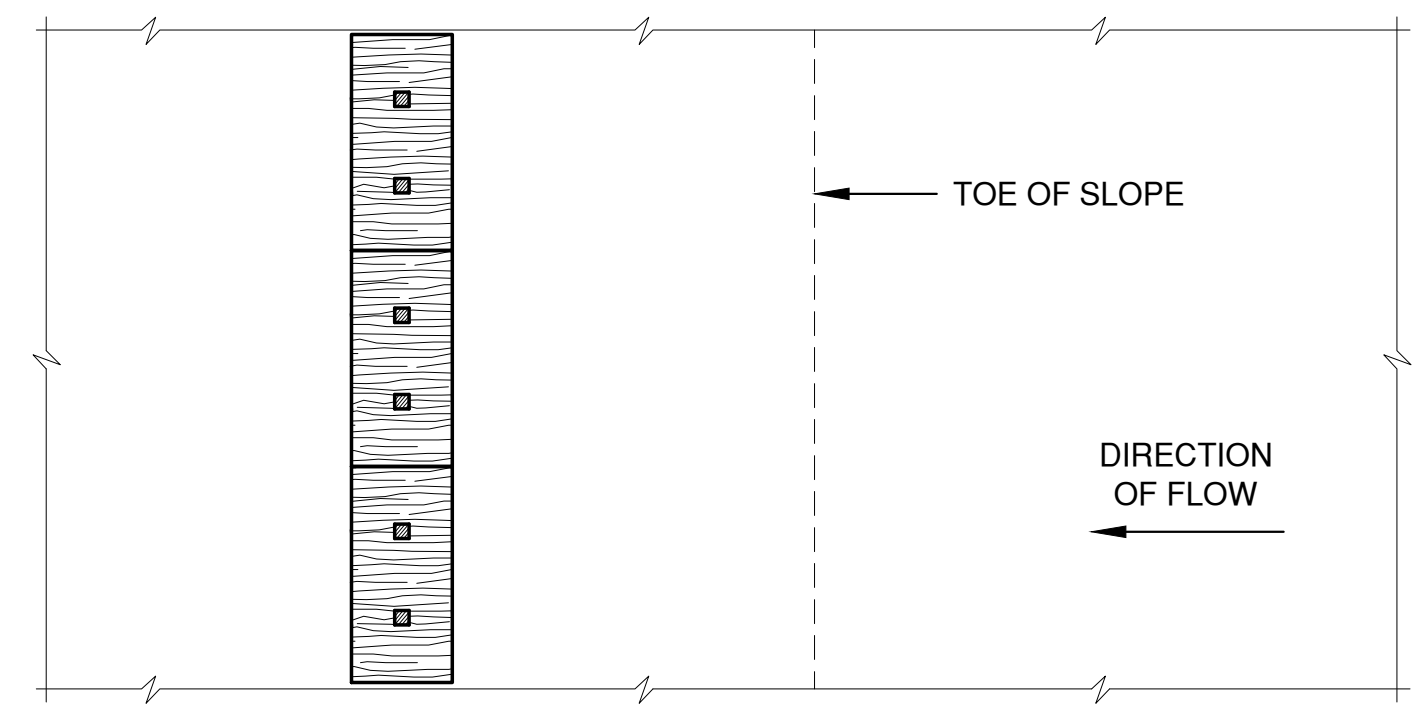
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 EROSION CONTROL
 JOB NO.
 5642014



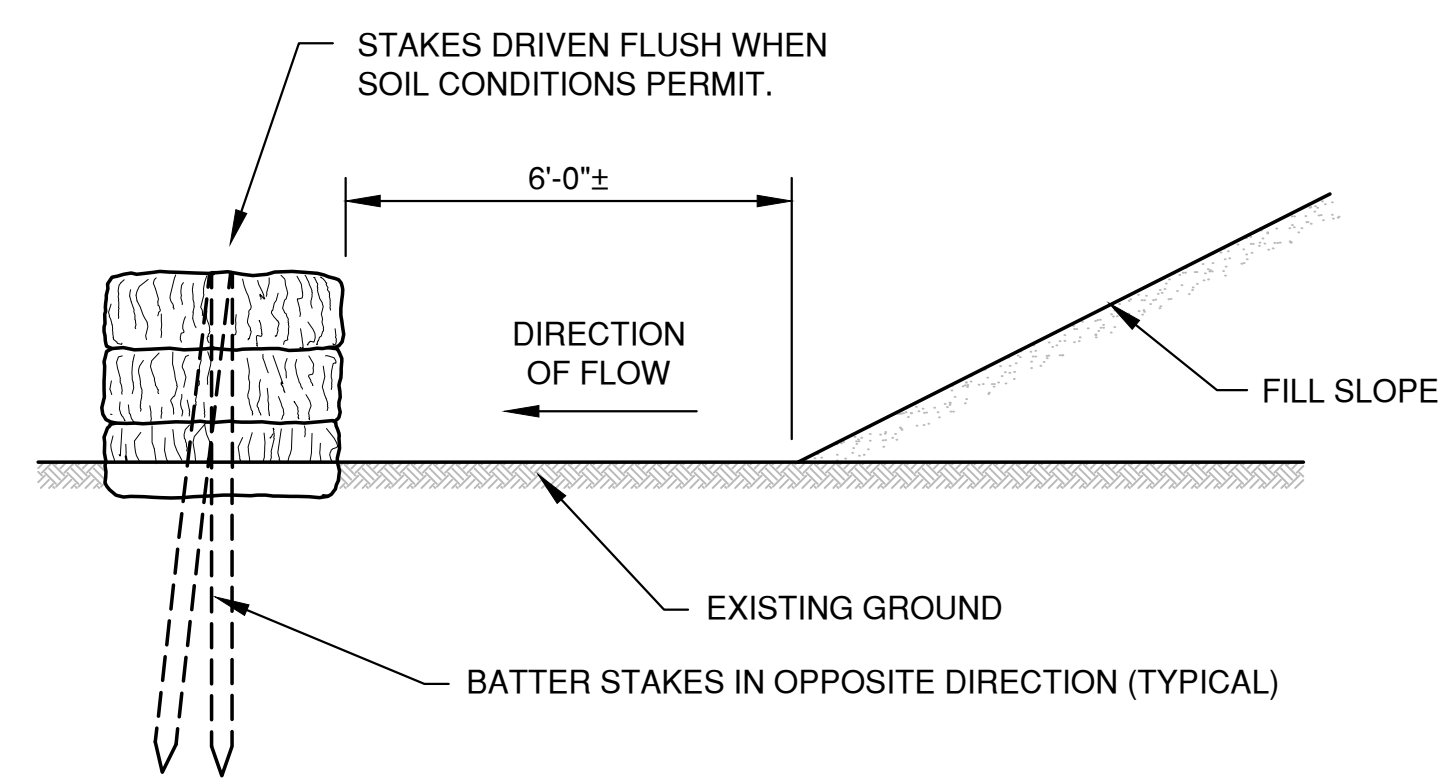
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PLAN VIEW
(WHEN ALTERING THE DIRECTION OF FLOW)

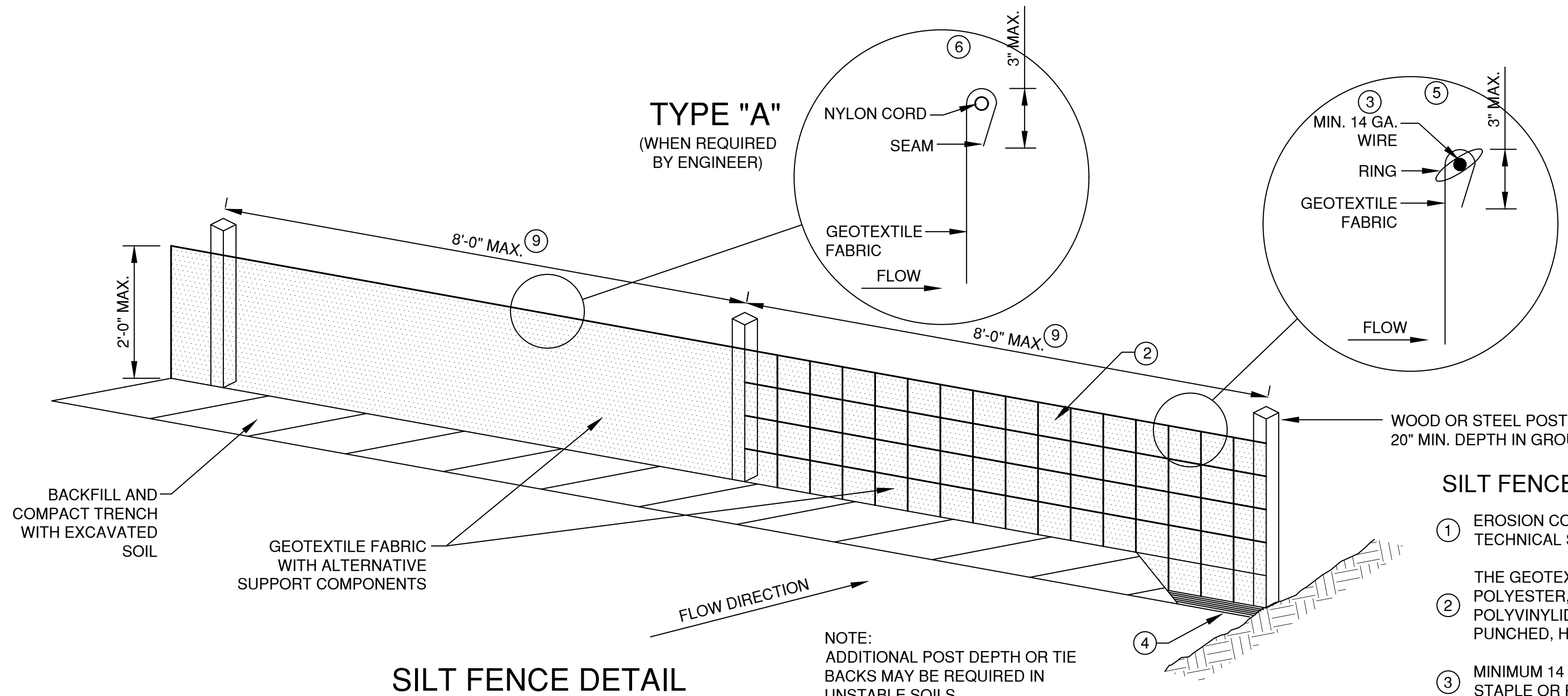


PLAN VIEW



FRONT ELEVATION
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

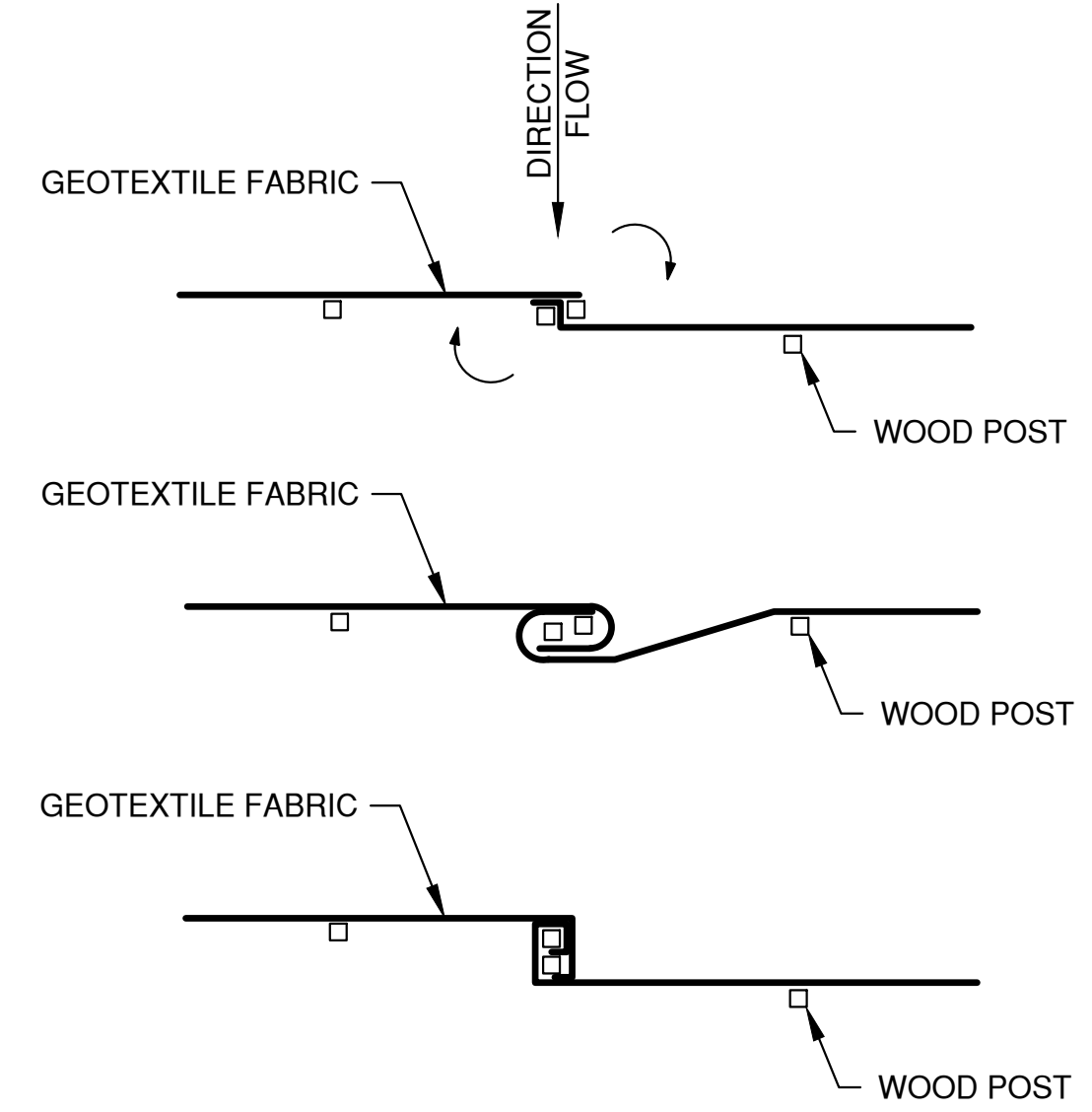


SILT FENCE DETAIL

NOTE:
ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS.

SILT FENCE NOTES:

- ① EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1056.
- ② THE GEOTEXTILE FABRIC CONSISTS OF EITHER WOVEN OR NON-WOVEN POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE OR POLYVINYLIDENE CHLORIDE. NON-WOVEN FABRIC MAY BE NEEDLE PUNCHED, HEAT BONDED, RESIN BONDED, OR COMBINATIONS THEREOF.
- ③ MINIMUM 14 GAUGE WIRE REQUIRED, FOLD FABRIC 3" OVER THE WIRE AND STAPLE OR PLACE WIRE RINGS ON 12" C.C.
- ④ EXCAVATE A TRENCH A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL
- ⑤ WIRE SUPPORT FENCE SHALL BE 14 GAUGE MINIMUM WOVEN WIRE WITH A MAXIMUM MESH SPACING OF 6". SECURE TOP OF GEOTEXTILE FABRIC TO TOP OF FENCE WITH STAPLES OR WIRE RINGS AT 12" C.C. (TYPE B)
- ⑥ GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF 3/4" OR EQUAL. A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED. (TYPE A)
- ⑦ STEEL POSTS SHALL BE 5' LONG WITH A MINIMUM STRENGTH OF 1.33 LBS PER FOOT. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY. THE POSTS SHALL BE A MINIMUM OF 3' LONG FOR 24" SILT FENCE AND 4' LONG FOR 36" SILT FENCE.
- ⑧ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL, IF POSSIBLE, BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY, USE ONE OF THE FOLLOWING TWO METHODS: A.) TWIST METHOD -- OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES. B.) HOOK METHOD -- HOOK THE END OF EACH SILT FENCE LENGTH.
- ⑨ THE MAXIMUM SPACING OF POSTS FOR WOVEN FABRIC SILT FENCE SHALL BE 8 FEET AND FOR NON-WOVEN FABRIC, 3 FEET.



TWIST METHOD ⑧

HOOK METHOD ⑧

JOINING TWO LENGTHS OF SILT FENCE

EROSION CONTROL SHEET FLOW NOTES:

1. ANY SOIL STOCKPILED THAT REMAINS FOR MORE THAN 7 DAYS, SHALL BE COVERED OR TREATED WITH STABILIZATION PRACTICES SUCH AS TEMPORARY OR PERMANENT SEEDING AND MULCHING.
2. A MINIMUM OF 4" OF TOPSOIL MUST BE APPLIED TO ALL AREAS TO BE SEEDDED OR SODDED.
3. ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.
4. ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH DAY. **FLUSHING SHALL NOT BE ALLOWED.**
5. ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR THE APPLICATION OF STABILIZATION MEASURES MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
6. FOR ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN 7 WORKING DAYS, OR WHERE GRADING WORK EXTENDS BEYOND THE PERMANENT SEEDING DEADLINES, THE SITE MUST BE TREATED WITH TEMPORARY STABILIZATION MEASURES SUCH AS SOIL TREATMENT, TEMPORARY SEEDING AND/OR MULCHING.
7. ALL TEMPORARY EROSION CONTROL PRACTICES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED WITH 70% VEGETATION AND A NOTICE OF TERMINATION HAS BEEN APPROVED BY THE WDNR.
8. WIND EROSION SHALL BE KEPT TO A MINIMUM DURING CONSTRUCTION. WATERING, MULCH OR A TACKING AGENT MAY NEED TO BE UTILIZED TO PROTECT NEARBY RESIDENCES/WATER RESOURCES.
9. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL THE EROSION CONTROL MEASURES IN CONFORMANCE WITH THE WDNR CONSERVATION PRACTICE STANDARDS LATEST EDITION.
10. UPON COMPLETION OF STORM INLET CONSTRUCTION, INSTALL STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITE AS SPECIFIED.
11. FINE SEDIMENT ACCUMULATIONS SHALL BE CLEANED FROM STREETS, PRIVATE DRIVES, OR PARKING AREAS BY MANUAL OR MECHANICAL SWEEPING A MINIMUM OF ONCE A WEEK AND BEFORE ALL IMMINENT RAINS
12. EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF RAINFALL OF 0.5" OR MORE.

LAYOUT: 4. SHEET FLOW

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

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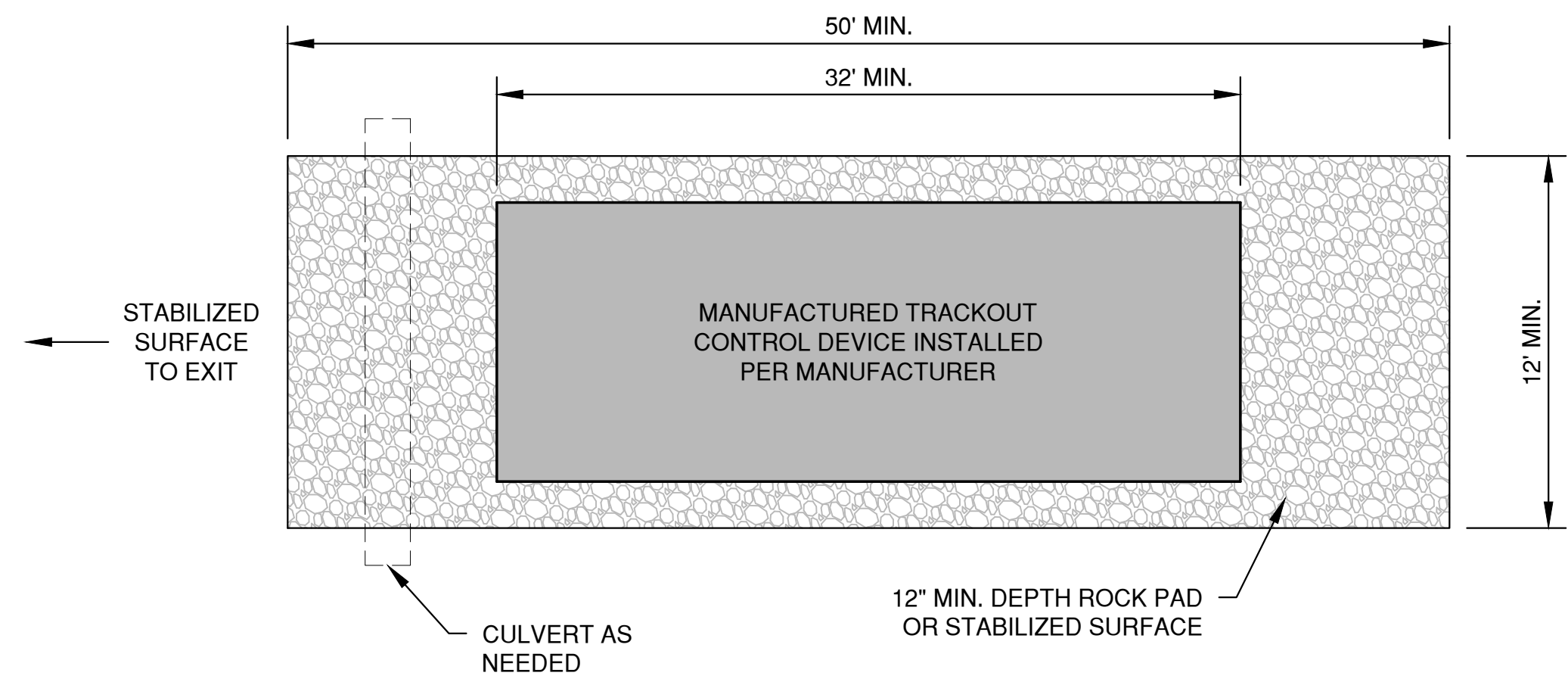
EROSION CONTROL
SHEET FLOW DETAILS

DATE
10/2019
FILE
EROSION CONTROL
JOB NO.
5642014

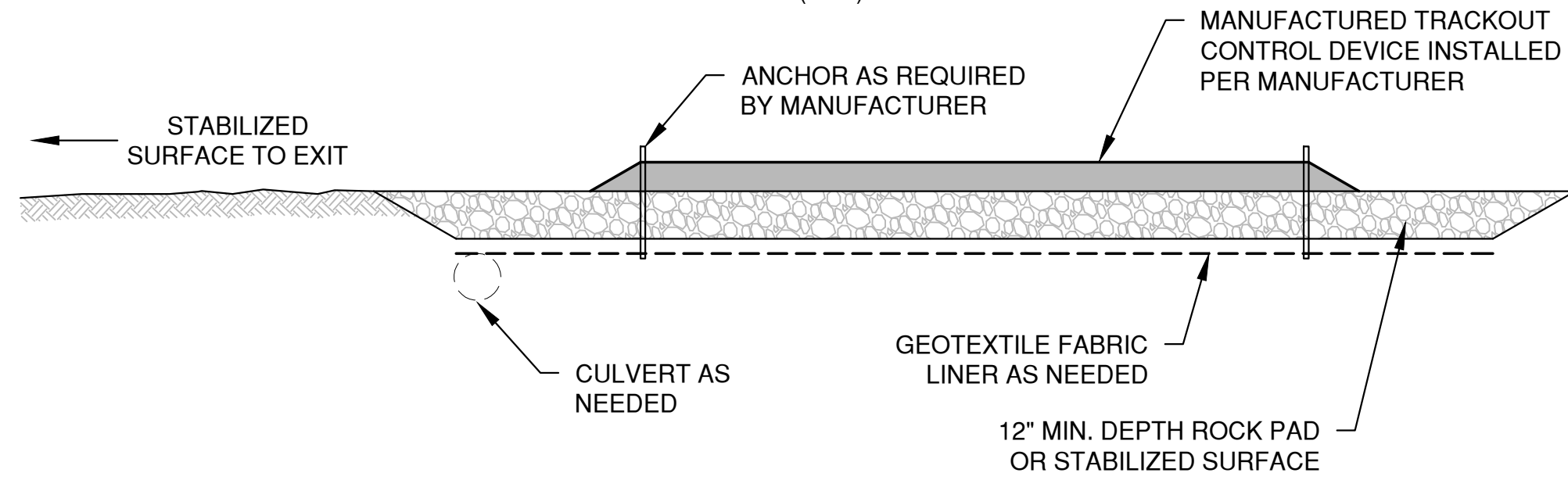
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SHEET NO.
12

* TRACKOUT CONTROL TO BE PROVIDED PER DETAILS BELOW AND IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1057



PLAN VIEW
(NTS)

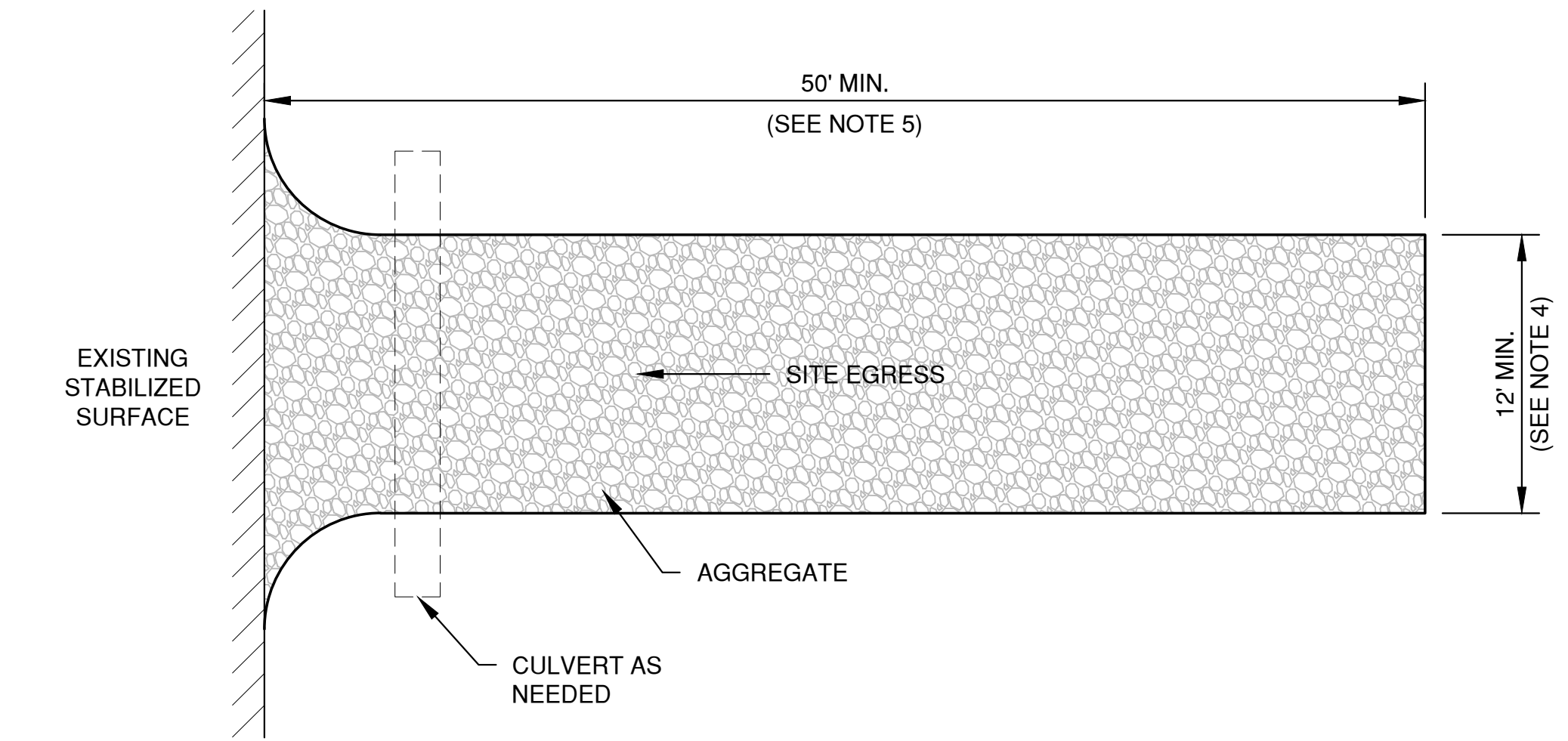


SECTION VIEW

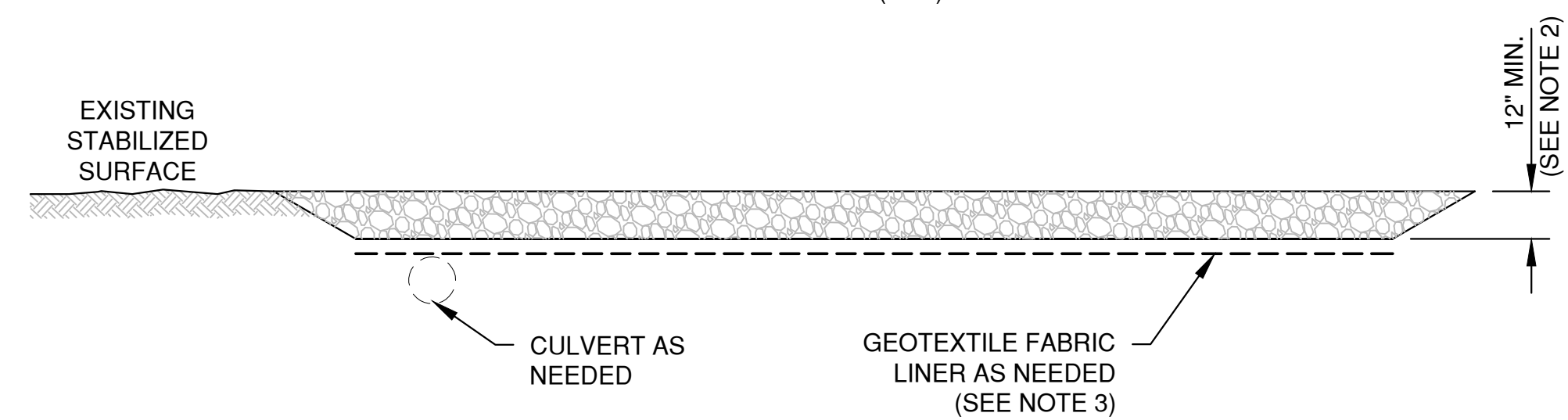
NOTES:

- THIS DETAIL IS PROVIDED AS AN EXAMPLE. COMPLY WITH MANUFACTURER'S SPECIFICATIONS WHILE ALSO MEETING THE MINIMUM MANUFACTURED TRACKING PAD LENGTH AND WIDTH DESCRIBED IN THIS TECHNICAL STANDARD.
- INSTALL SUCH THAT RUNOFF FLOWS TO AN APPROVED TREATMENT PRACTICE.
- A THINNER STONE LAYER OR OTHER STABLE SURFACE MAY BE ACCEPTABLE SUCH THAT RUTTING IS MINIMIZED AS VEHICLES MOUNT OR DISMOUNT FROM THE MANUFACTURERS TRACKOUT CONTROL DEVICE.
- SELECT FABRIC TYPE BASED ON SOIL CONDITIONS AND VEHICLES LOADING.
- DIRECT ALL EXISTING VEHICLES OVER MANUFACTURED TRACKOUT CONTROL DEVICE. STONE TRACKING PAD INSTALLATION ACROSS REMAINING ACCESS WIDTH IS RECOMMENDED. A 12' MINIMUM CAN BE USED WHEN EXITING TRAFFIC IS RESTRICTED TO A DEDICATED EGRESS LANE.
- IF MINIMUM INSTALLATION LENGTH IS NOT POSSIBLE DUE TO SITE GEOMETRY, INSTALL THE MAXIMUM LENGTH PRACTICABLE AND SUPPLEMENT WITH ADDITIONAL PRACTICES AS NEEDED.
- ACCOMMODATE EXITING VEHICLES IN EXCESS OF MANUFACTURED TRACKOUT CONTROL DEVICE WEIGHT CAPACITY WITH OTHER TREATMENT PRACTICES.

MANUFACTURED TRACKOUT CONTROL DETAIL



PLAN VIEW
(NTS)



SECTION VIEW

NOTES:

- USE HARD, DURABLE, ANGULAR STONE OR RECYCLED CONCRETE, MEETING THE FOLLOWING GRADATION:

SIEVE SIZE:	PERCENT BY WEIGHT PASSING:
3"	100
2 1/2"	90-100
1 1/2"	25-60
3/4"	0-20
3/8"	0-5
- SLOPE THE STONE TRACKING PAD IN A MANNER TO DIRECT RUNOFF TO AN APPROVED TREATMENT PRACTICE.
- SELECT FABRIC TYPE BASED ON SOIL CONDITIONS AND VEHICLES LOADING.
- INSTALL TRACKING PAD ACROSS FULL WIDTH OF THE ACCESS POINT, OR RESTRICT EXISTING TRAFFIC TO A DEDICATED EGRESS LANE AT LEAST 12 FEET WIDE ACROSS THE TOP OF THE PAD.
- IF A 50' PAD LENGTH IS NOT POSSIBLE DUE TO SITE GEOMETRY, INSTALL THE MAXIMUM LENGTH PRACTICABLE AND SUPPLEMENT WITH ADDITIONAL PRACTICES AS NEEDED.

STONE TRACKING PAD DETAIL

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 Plot Date: Nov 21, 2019 10:55am
 4 SHEET FLOW
 LAYOUT:

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN: BLT
 CHECKED: JGS
 DESIGNED: BLT

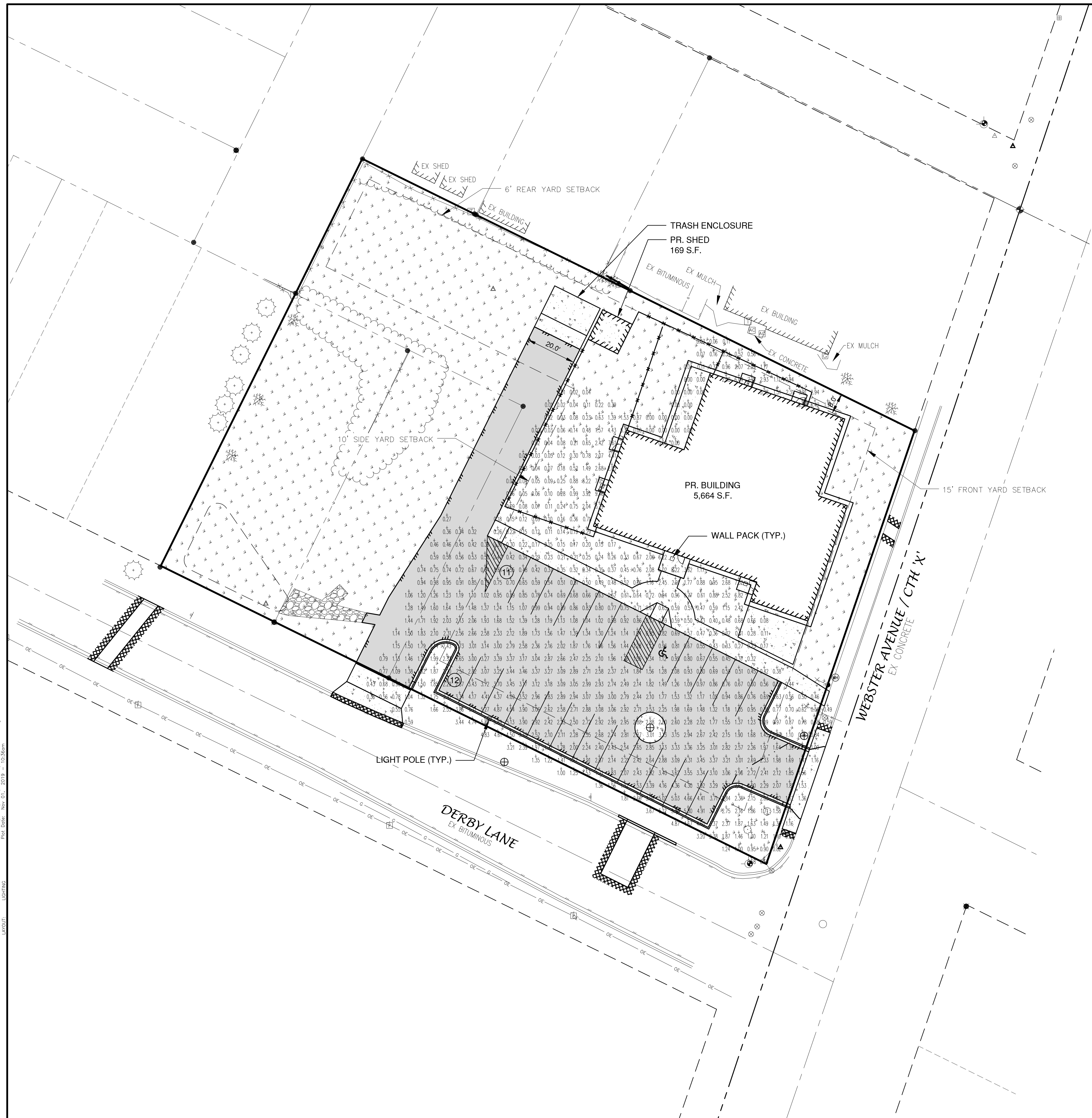
PROPOSED DAYCARE FOR
 GB REAL ESTATE INVESTMENTS, LLC.
 VILLAGE OF ALLOUEZ
 BROWN COUNTY, WISCONSIN

EROSION CONTROL
 TRACKOUT CONTROL PRACTICES

DATE: 10/19
 FILE: EROSION CONTROL
 JOB NO.: 5642014

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SHEET NO.
13

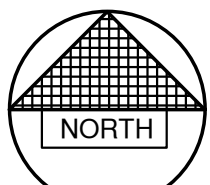


CALCULATION SUMMARY										
AREA NAME	DIMENSIONS	GRID / TYPE	# PTS	SPAC	GROUP	AVE	MAX	MIN	MAX/MIN	AVE/MIN
New Area	239.70x271.69ft	Grade / H-H	726	5.00	<+>	1.69	9.58	0.00	N/A	N/A

Allouez Daycare (REL10289) LUMINAIRE SCHEDULE						
TYP	SYMBOL	DESCRIPTION	LAMP	LUMENS	MOUNTING/BALLAST	LF / QTY
OA	⬢	LSI INDUSTRIES, LSI Mirada FT (1) "A4" MRM-LED-18L-SIL-FT-30-70CRI	(1)	9625	18" SSS 2' Conc Pour	1.00 / 2
OW	⬢	LSI INDUSTRIES, Wallpack LSI Sm (1) "W" WLS-13-45	(1)	1739		1.00 / 6

AREA SUMMARY SCHEDULE					
AREA NAME	I/O	DIMENSIONS	LUMS / <ASMS>	WATTS / SQ FT	QTY
New Area	OUT	239.70x271.69ft	<OA > (2) <OW > (6)	0.01	1

LIGHTING PLAN DESIGNED BY:
DAVE ZOCHERT
LIGHTING PLAN DESIGNED BY:
920-437-2069



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

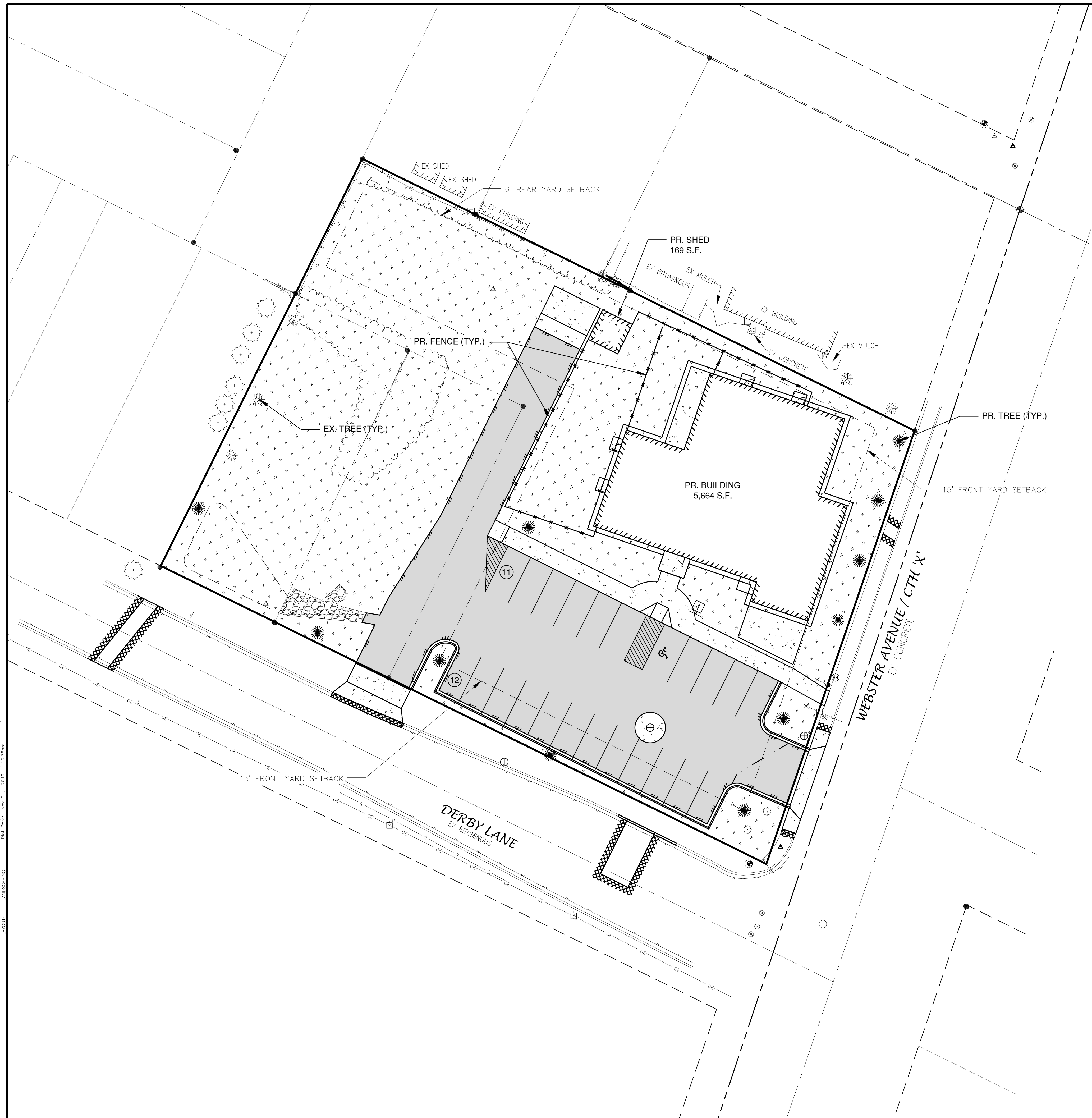
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VILLAGE OF ALLOUEZ
BROWN COUNTY, WISCONSIN

LIGHTING PLAN

DATE
10/2019
FILE
5642014D
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SHEET NO.
L1



LANDSCAPING REQUIREMENTS
 1 TREE PER DWELLING UNIT = 0 TREES
 1 TREE PER 1000 S.F. OF GFA = 6 TREES
 1 TREE PER 8 STALLS = 3 TREES
 1 TREE PER STREET FRONTAGE GREATER THAN 100 = 2 TREES

BUFFERS
 1 TREE PER 35 LINEAR FEET = 3 TREES (EXISTING)

A TOTAL OF 11 TREES REQUIRED ON-SITE

NOTE
 ALL DISTURBED AREAS SHALL BE TOPSOILED TO A DEPTH OF 6 INCHES, SEEDED AND MULCHED. AREA TO BE RAKED FREE OF STONES AND CLUMPS.

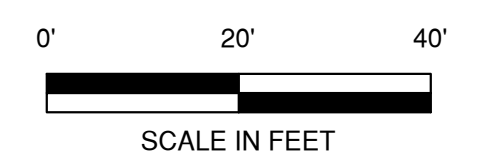
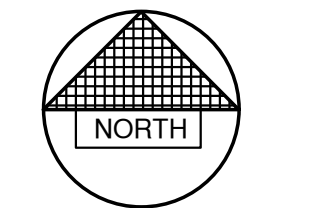
PARKING DATA
 TOTAL PARKING STALLS PROVIDED = 23
 HANDICAP ACCESSIBLE PARKING STALLS = 1
 TOTAL PARKING STALLS REQUIRED = 8

1 SPACE PER 10 CHILDREN ENROLLED PLUS 1 QUEUING SPACE PER 20 CHILDREN ENROLLED; 2 QUEUING SPACES MINIMUM.
 55 CHILDREN / 10 = 5.5 = 6 STALLS REQUIRED + 2 QUEUING = 8 STALLS

SITE DATA
 TOTAL AREA = 1.05 ACRES, 45,604 S.F.
 BUILDING AREA = 0.14 ACRES, 5,833 S.F. (13.3%)
 SIDEWALK/PARKING LOT AREA = 0.31 ACRES, 14,102 S.F. (29.5%)
 GREEN SPACE = 0.60 ACRES, 25,669 S.F. (57.2%)

PARCEL NO.
 AL-1419 (33,623 S.F.), AL-1420 (5,991 S.F.), AND AL-1421 (5,990 S.F.)

ZONING
 "E" - COMMERCIAL DISTRICT



File: R:\2019\5642014\DWG\5642014.dwg
 Plot Date: Nov 21, 2019 10:34am
 LAYOUT: LANDSCAPING

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

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 CHECKED: JGS
 DESIGNED: BLT

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VILLAGE OF ALLOUEZ
BROWN COUNTY, WISCONSIN

LANDSCAPING PLAN

DATE: 10/2019
 FILE: 5642014D
 JOB NO.: 5642014

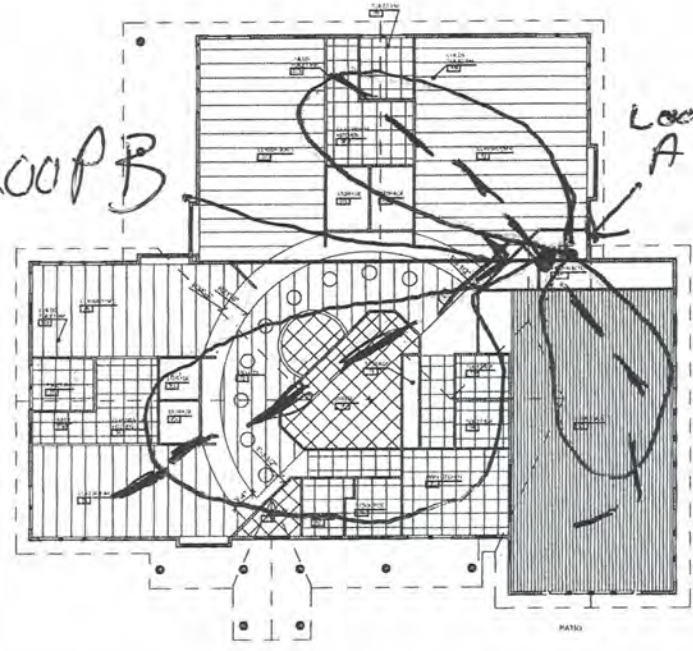

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SHEET NO. **L2**



Loop B

Loop A



15 CEILING PLAN
1/8" = 1'-0" (1:96)



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 Planning, Architectural Design, and Construction Administration
 1324 S. Webster Ave., Alton, WI 53111
 Phone: 262-233-4444
 Fax: 262-233-4444
 Email: info@dimensioniv.com
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Alton, WI

YOU ARE MY SUNSHINE
 New Construction

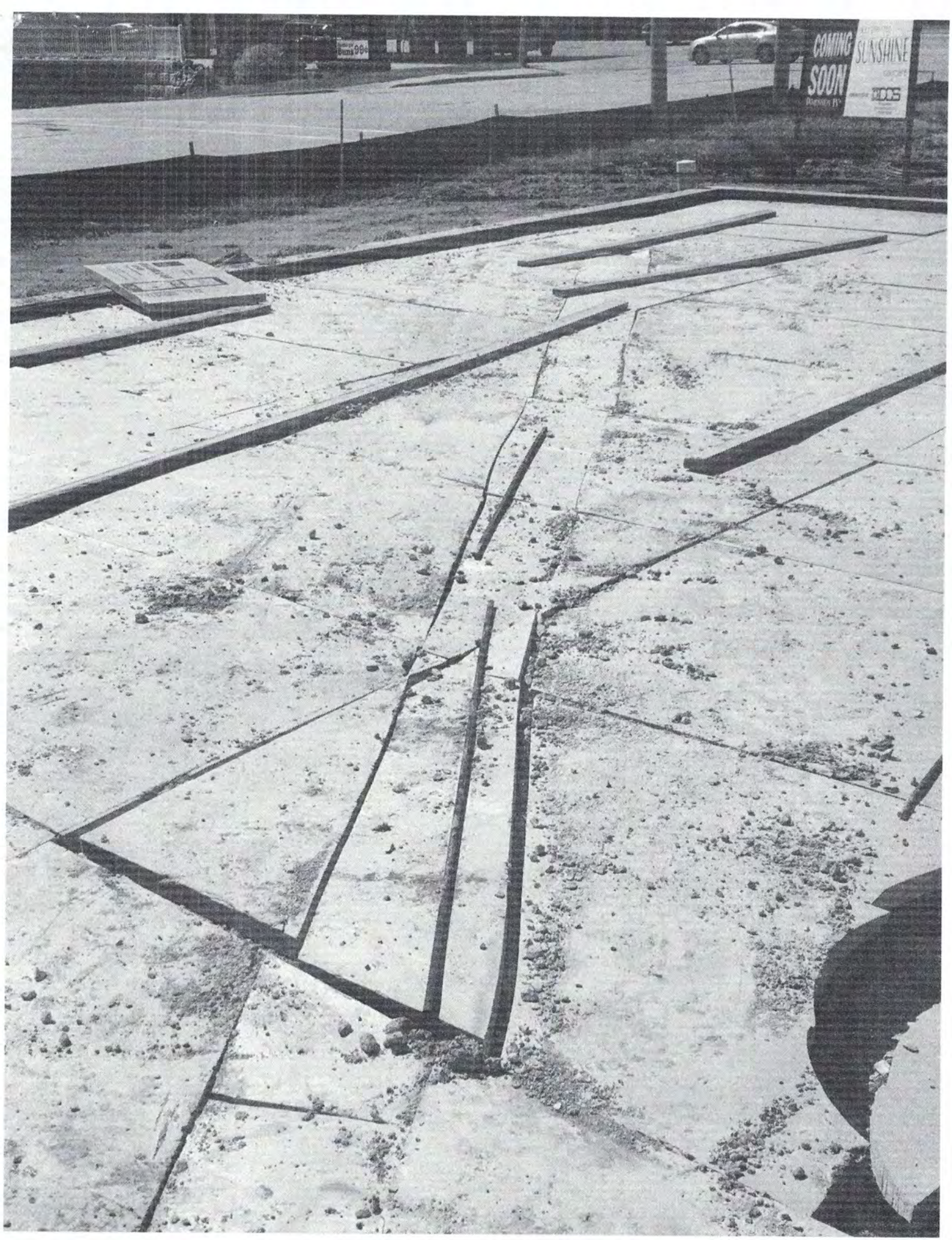
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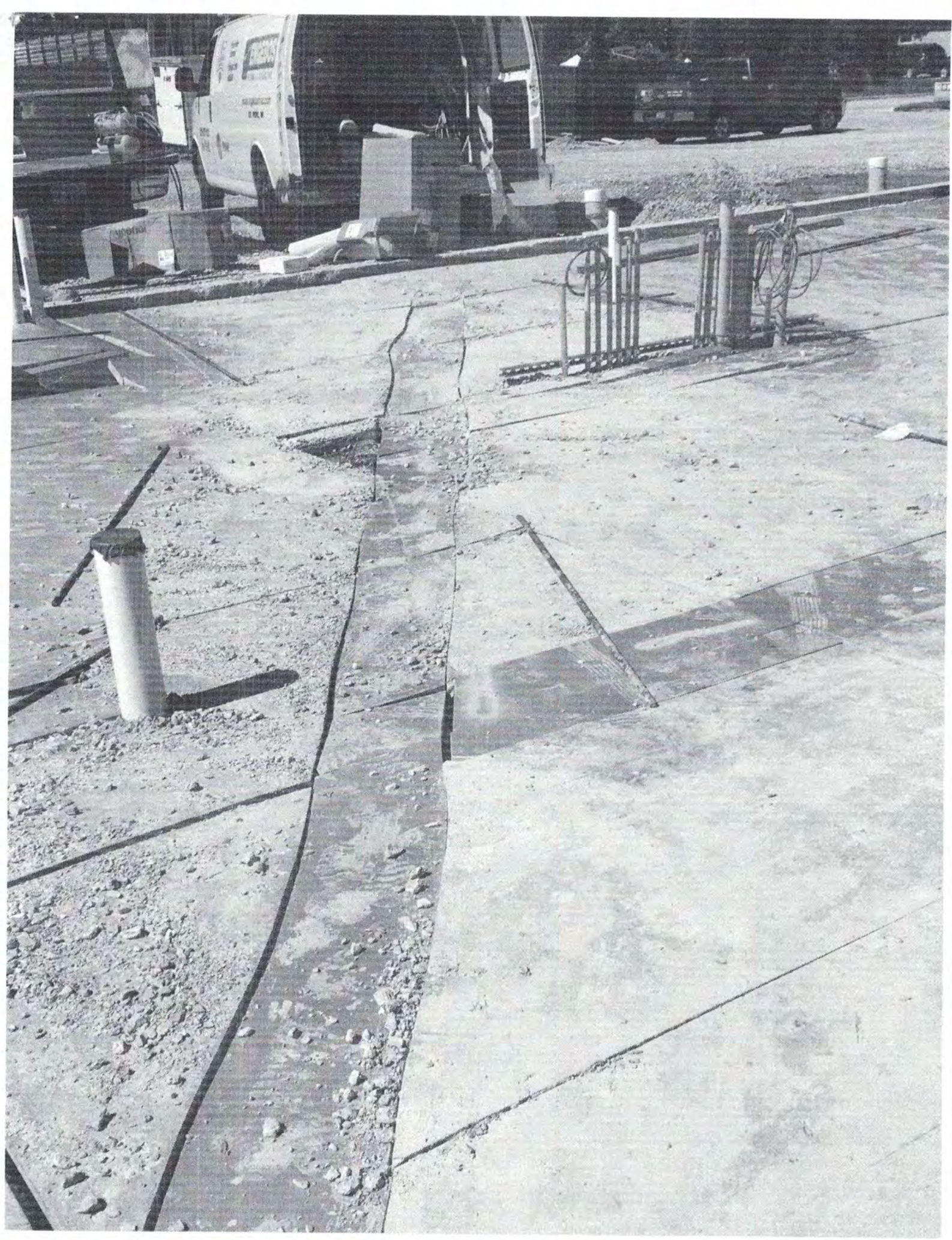
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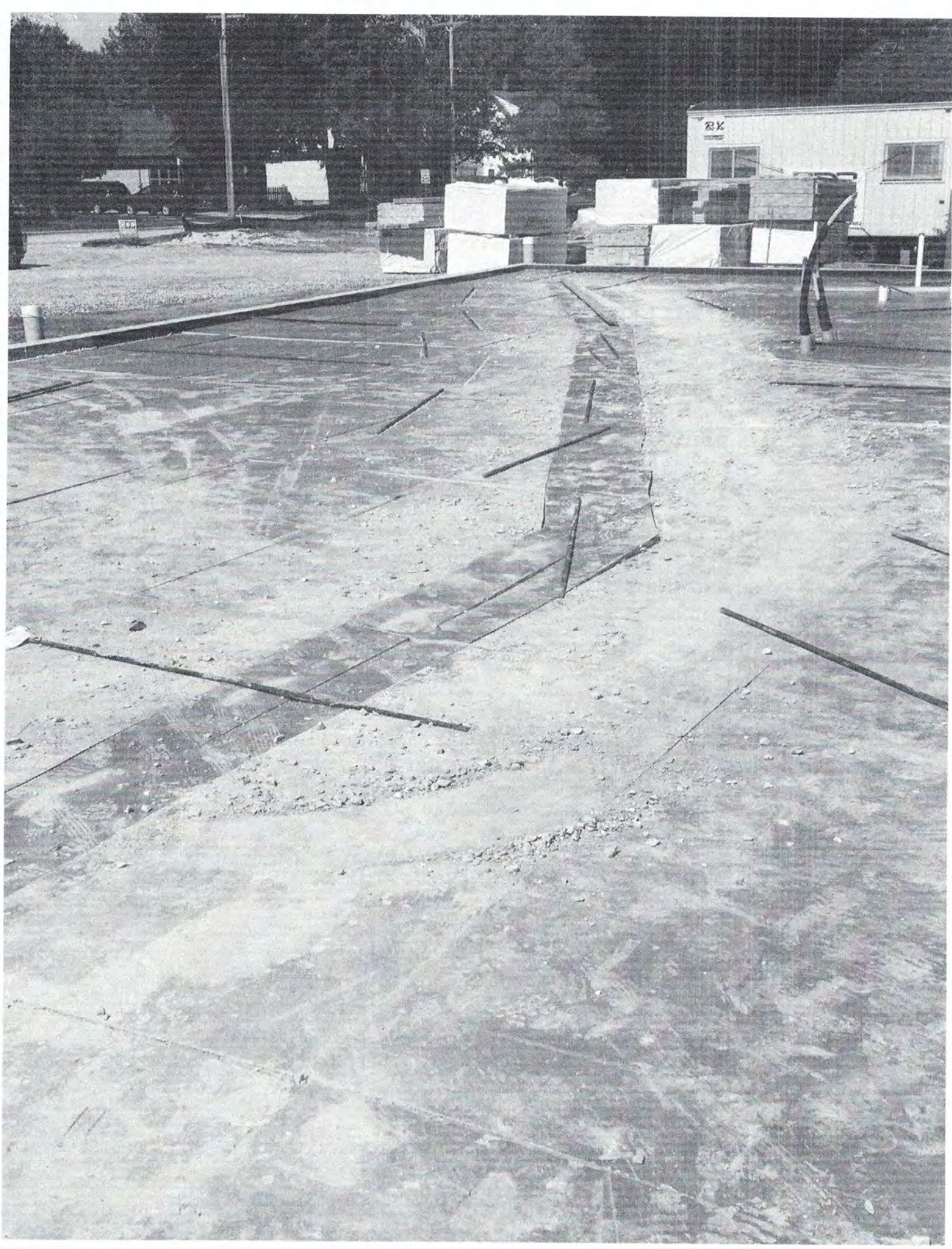
SHEET NO.:
 CEILING PLAN

DATE: 08/14/2014
 TIME: 10:00 AM

A202









DISCLAIMER:
 Note: Details of the tubing bend radius have been simplified for clarity. Consult tubing manufacturer for specific bend radius recommendations.

PROJECT:
You Are My Sunshine Daycare
 CUSTOMER:

PROJECT NO.:

SCALE:
3/32"=1'

DRAWING NAME:
P1 (Ground Floor)

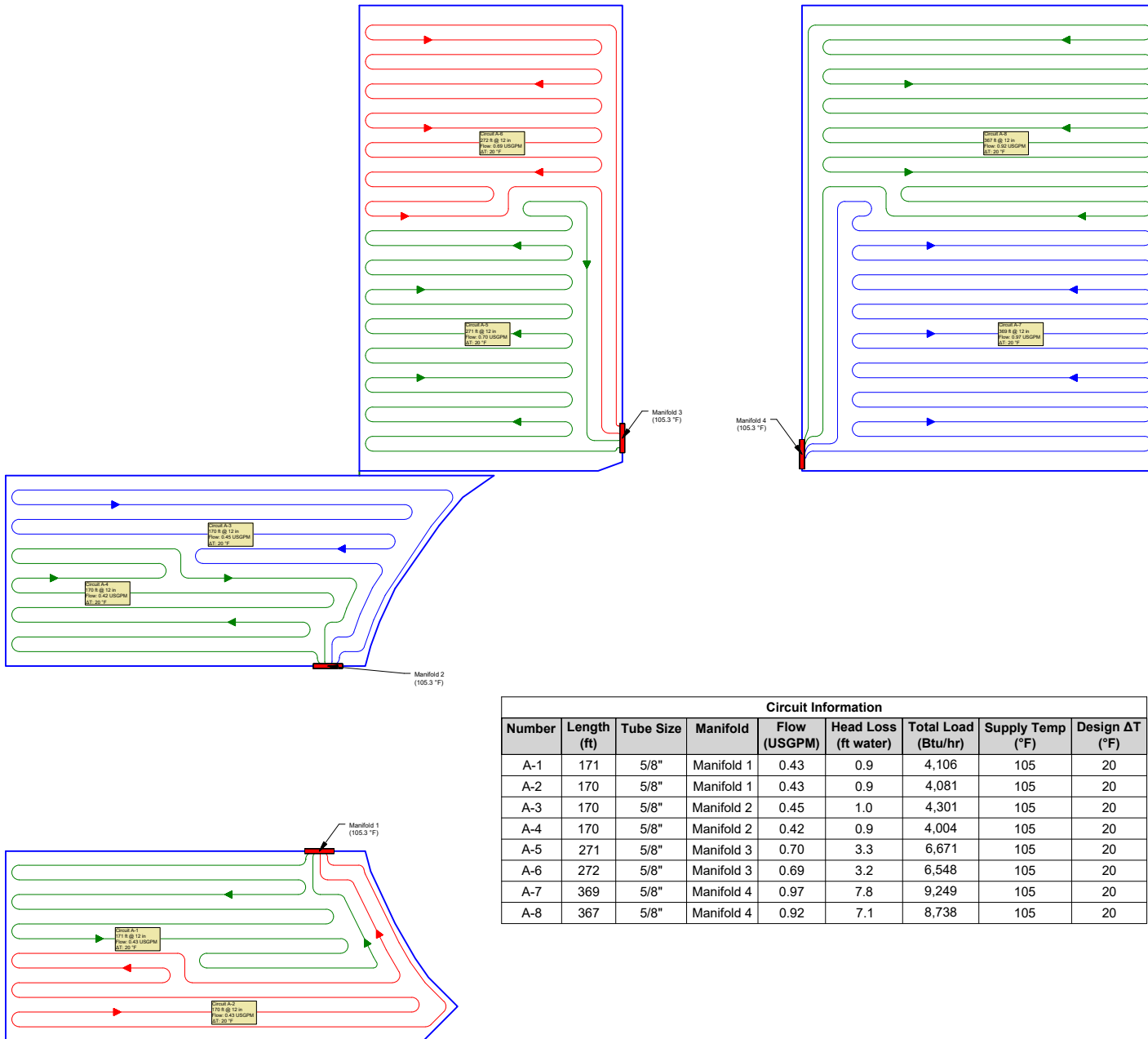
DRAWN BY:

DATE:
3/29/2020

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REVISIONS		
No	Desc	Date

PAGE NO.
1



Circuit Information								
Number	Length (ft)	Tube Size	Manifold	Flow (USGPM)	Head Loss (ft water)	Total Load (Btu/hr)	Supply Temp (°F)	Design ΔT (°F)
A-1	171	5/8"	Manifold 1	0.43	0.9	4,106	105	20
A-2	170	5/8"	Manifold 1	0.43	0.9	4,081	105	20
A-3	170	5/8"	Manifold 2	0.45	1.0	4,301	105	20
A-4	170	5/8"	Manifold 2	0.42	0.9	4,004	105	20
A-5	271	5/8"	Manifold 3	0.70	3.3	6,671	105	20
A-6	272	5/8"	Manifold 3	0.69	3.2	6,548	105	20
A-7	369	5/8"	Manifold 4	0.97	7.8	9,249	105	20
A-8	367	5/8"	Manifold 4	0.92	7.1	8,738	105	20

MECHANICAL SYMBOLS AND ABBREVIATIONS

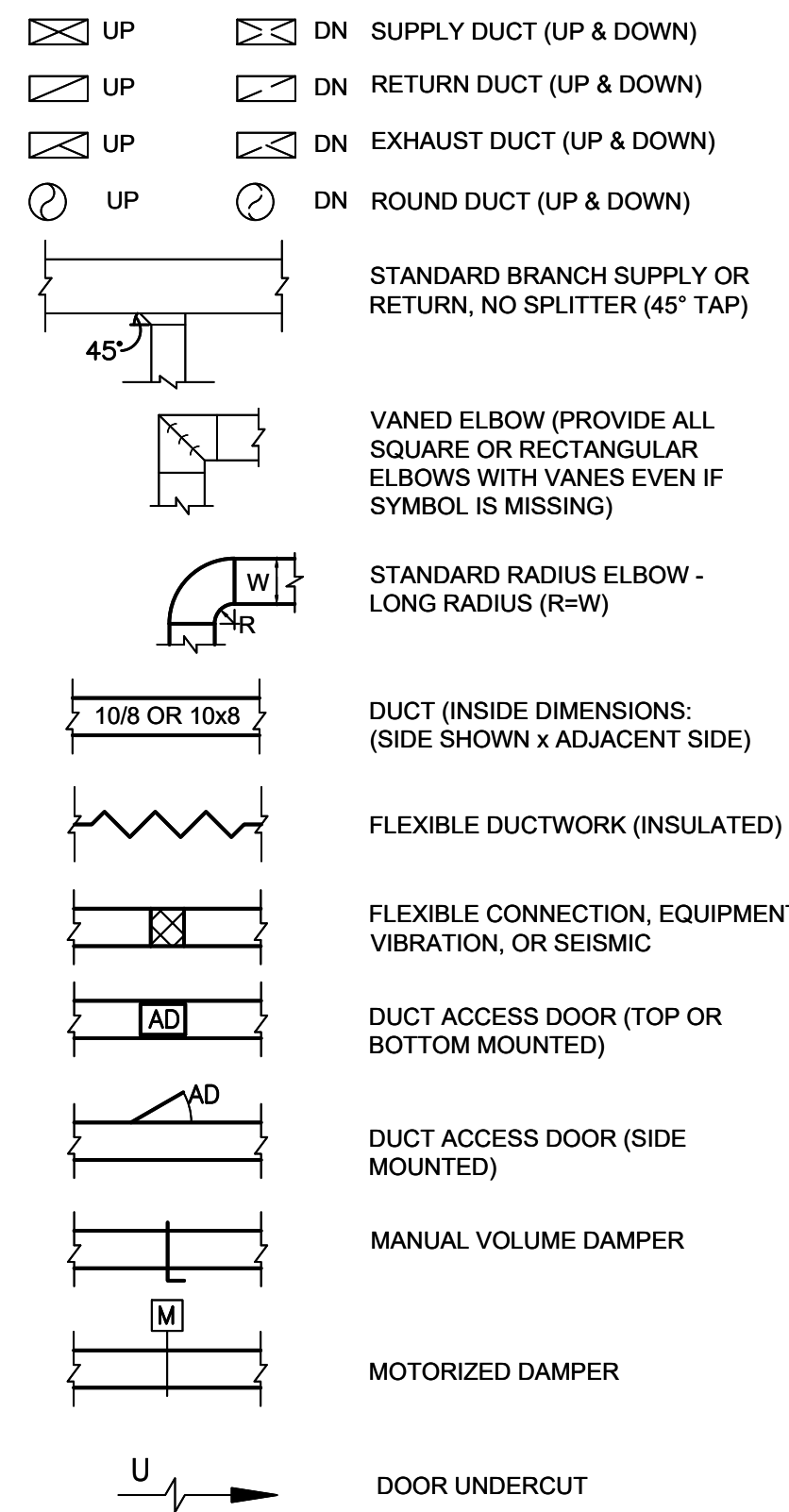
NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED HERE ARE USED IN DRAWINGS AND MAY NOT APPLY TO CURRENT PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED ON DRAWINGS.

ABBREVIATIONS

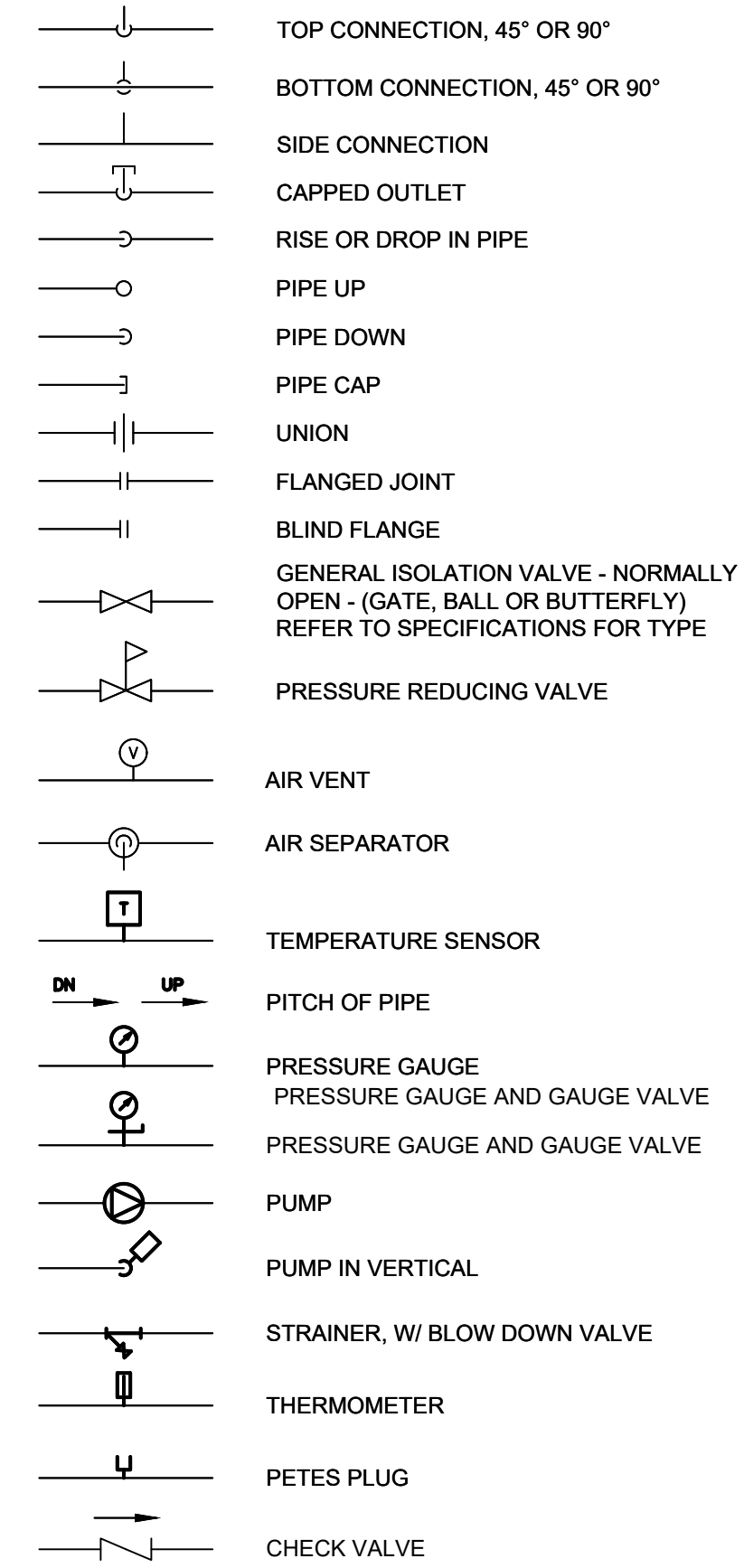
A/E	ARCHITECT / ENGINEER
AC	AIR CONDITIONING UNIT
ACC	AIR-COOLED CONDENSING UNIT
AD	ACCESS DOOR
ADD	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
AMP	AMPERAGE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE
ARCH	ARCHITECT
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING and AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AUTO	AUTOMATIC
B	BOILER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CA	COMBUSTION AIR
CC	COOLING COIL
CCD	COOLING COIL CONDENSATE DRAIN
CD	CEILING DIFFUSER
CENT	CENTRIFUGAL
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CL or c	CENTERLINE
CLG	CEILING
CM	CONSTRUCTION MANAGER
COMB	COMBUSTION
COMP	COMPRESSOR
COND	CONDENSATE
COP	COEFFICIENT OF PERFORMANCE or CENTER OF PIPE
CS	CARBON STEEL
CJ	COPPER
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE or CONSTANT VOLUME
CW	COLD WATER (POTABLE)
DB	DRY-BULB TEMPERATURE
DEG	DEGREE
DF	DESTRATIFICATION FAN
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
E.C.	ELECTRICAL CONTRACTOR
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
EWL	ELECTRIC WALL HEATER
EXH	EXHAUST
*F	DEGREES FAHRENHEIT
F	FILTER
FC	FORWARD CURVED
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FLR	FLOOR
FPM	FEET PER MINUTE
FS	FLOW SWITCH
FT	FEET
G	NATURAL GAS
GA	GAUGE
GAL	GALLONS
G.C.	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
H.C.	HVAC CONTRACTOR
HD	HUB DRAIN
HP	HORSEPOWER
HR	HOUR
HW	HOT WATER
HZ	HERTZ
IN	INCHES
IN WC	INCH WATER COLUMN
IFM	IN-FLOOR MANIFOLD
KW	KILOWATT
kWh	KILOWATT HOUR
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LBS or #	POUNDS
LF	LINEAR FOOT (FEET)
LWT	LEAVING WATER TEMPERATURE
MAT	MIXED AIR TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MAV	MANUAL AIR VENT
MSH	1000 BTUH
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MD	MOTORIZED DAMPER
MIN	MINIMUM

MUW	MAKE-UP WATER
NA	NOT APPLICABLE
NC	NOISE CRITERIA OR NORMALLY CLOSED
NIC	NOT IN CONTRACT
NG	NATURAL GAS
NO	NORMALLY OPEN
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
ODP	OPEN DRIP-PROOF
OED	OPEN END DUCT
P	PUMP
P.C.	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE
PRV	PRESSURE REDUCING VALVE OR PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
REQ	REQUIRED
RG	RETURN GRILLE
RH	RANGE HOOD
RLA	RUN LOAD AMPERE
RP	REFRIGERANT PIPING
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SF	SUPPLY FAN
SG	SUPPLY AIR GRILLE
SI	SQUARE INCHES
SP	STATIC PRESSURE
SQ FT	SQUARE FOOT (FEET)
T	TANK
TAB	TESTING, ADJUSTING, BALANCE
TBV	TO BE VERIFIED
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
V	VALVE or VOLTS
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WG	WATER GAUGE

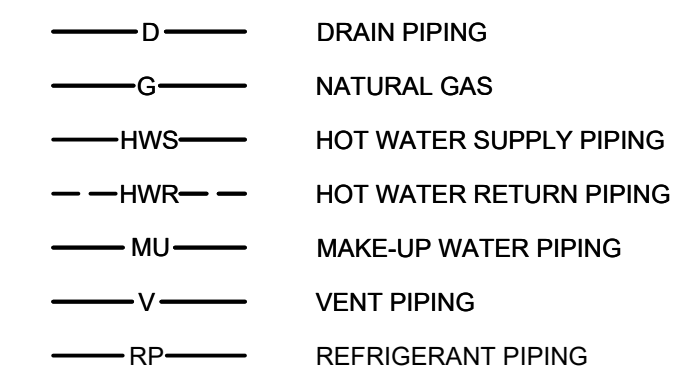
GENERAL DUCTWORK SYMBOLS



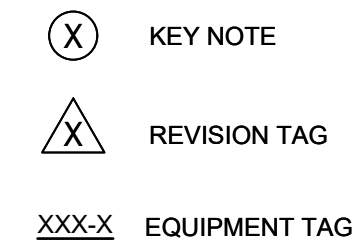
GENERAL PIPING SYMBOLS



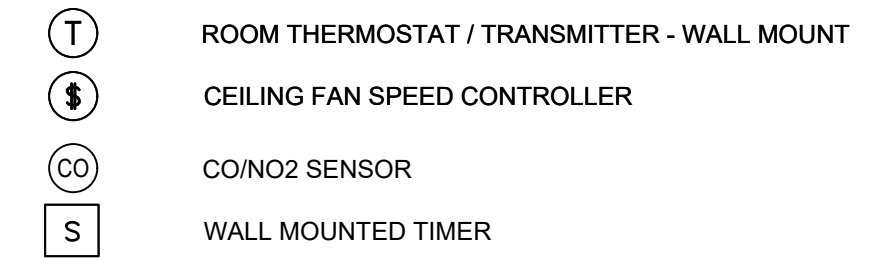
GENERAL PIPING SYMBOLS



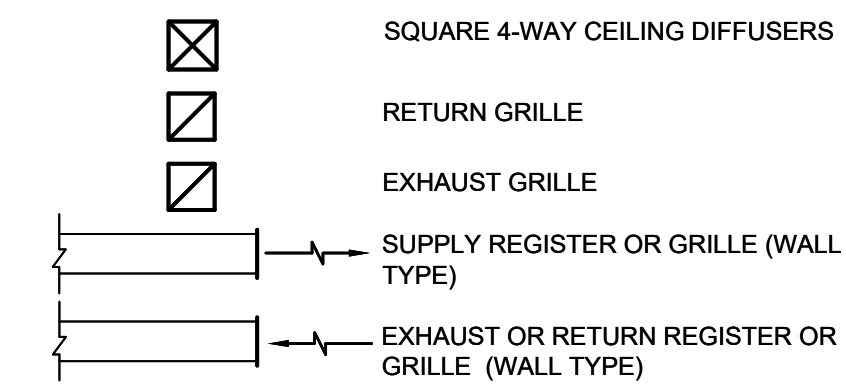
GENERAL SYMBOLS



CONTROL SYMBOLS



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SHEET INDEX:
 MECHANICAL SYMBOLS
 AND ABBREVIATIONS

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 DUCTWORK AND
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M101



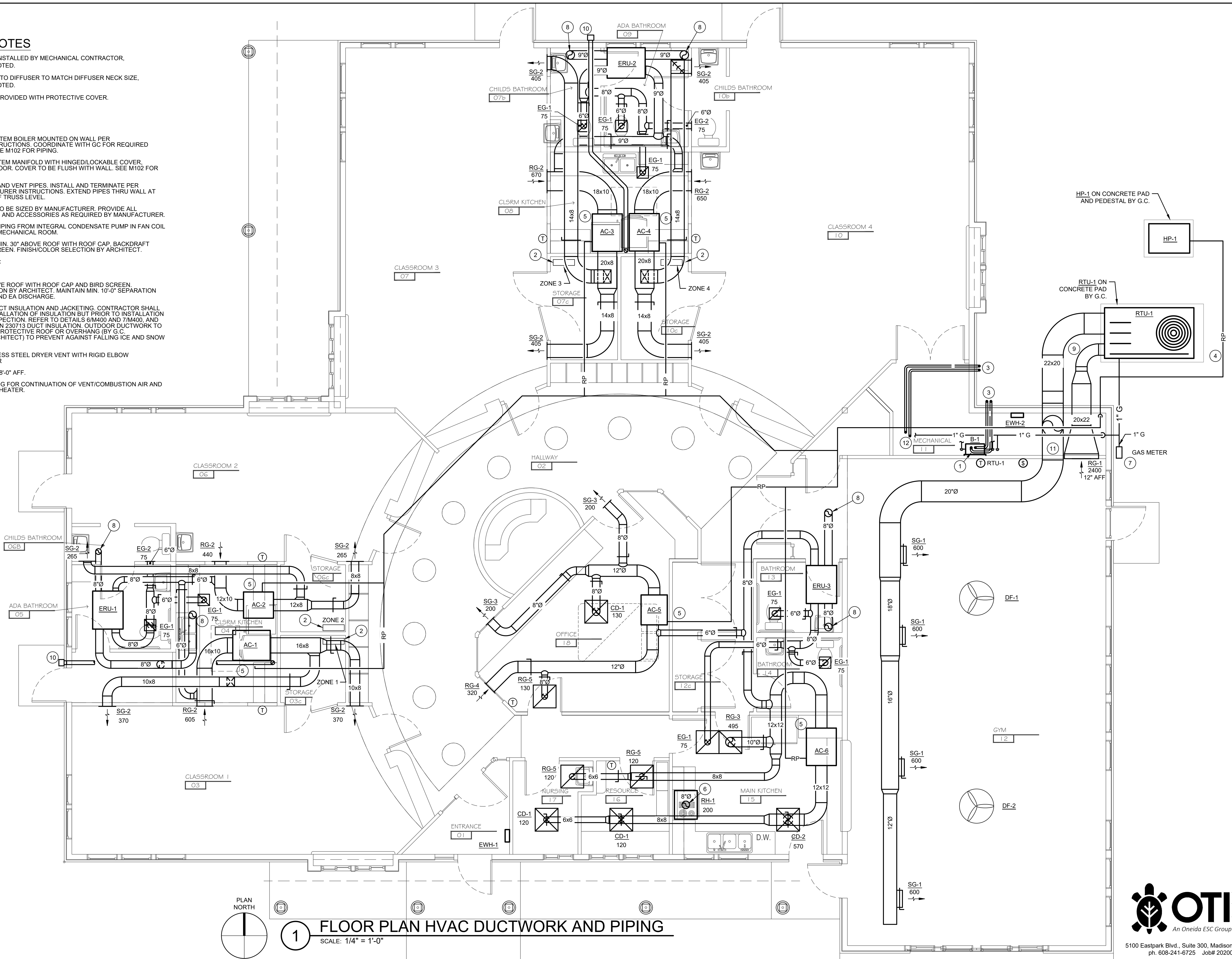
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GENERAL NOTES

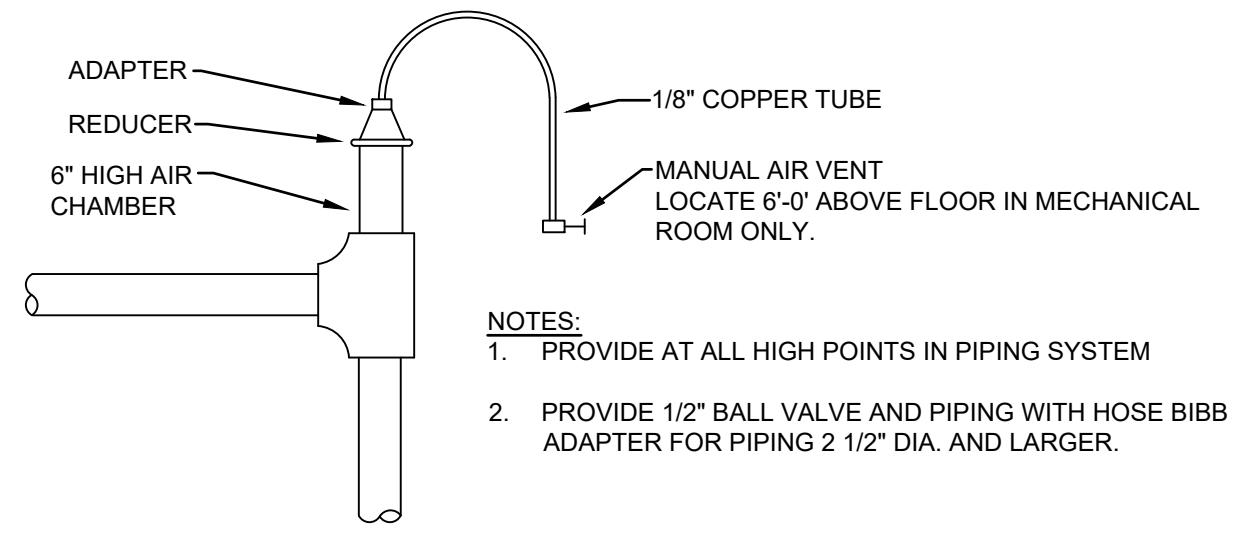
1. THERMOSTATS TO BE INSTALLED BY MECHANICAL CONTRACTOR, UNLESS OTHERWISE NOTED.
2. SIZE OF DUCT RUNOUT TO DIFFUSER TO MATCH DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED.
3. THERMOSTATS TO BE PROVIDED WITH PROTECTIVE COVER.

KEYNOTES

1. IN FLOOR HEATING SYSTEM BOILER MOUNTED ON WALL PER MANUFACTURERS INSTRUCTIONS. COORDINATE WITH GC FOR REQUIRED BACKUP SUPPORTS. SEE M102 FOR PIPING.
2. INFLOOR HEATING SYSTEM MANIFOLD WITH HINGED/LOCKABLE COVER. INSTALL AT 1'-6" AFF FLOOR. COVER TO BE FLUSH WITH WALL. SEE M102 FOR PIPING.
3. PVC COMBUSTION AIR AND VENT PIPES. INSTALL AND TERMINATE PER EQUIPMENT MANUFACTURER INSTRUCTIONS. EXTEND PIPES THRU WALL AT 1'-0" BELOW BOTTOM OF TRUSS LEVEL.
4. REFRIGERANT PIPING TO BE SIZED BY MANUFACTURER. PROVIDE ALL REFRIGERANT DEVICES AND ACCESSORIES AS REQUIRED BY MANUFACTURER.
5. ROUTE CONDENSATE PIPING FROM INTEGRAL CONDENSATE PUMP IN FAN COIL UNIT TO HUB DRAIN IN MECHANICAL ROOM.
6. TERMINATE EXHAUST MIN. 30" ABOVE ROOF WITH ROOF CAP. BACKDRAFT DAMPER, AND BIRD SCREEN. FINISH/COLOR SELECTION BY ARCHITECT.
7. NATURAL GAS SERVICE:
 PRESSURE: 2 PSI
 LOAD: 300 CFH
8. TERMINATE DUCT ABOVE ROOF WITH ROOF CAP AND BIRD SCREEN. FINISH/COLOR SELECTION BY ARCHITECT. MAINTAIN MIN. 10'-0" SEPARATION BETWEEN OA INTAKE AND EA DISCHARGE.
9. PROVIDE OUTDOOR DUCT INSULATION AND JACKETING. CONTRACTOR SHALL NOTIFY A/E AFTER INSTALLATION OF INSULATION BUT PRIOR TO INSTALLATION OF JACKET FOR INSPECTION. REFER TO DETAILS 614400 AND 714400. AND SPECIFICATION SECTION 230713 DUCT INSULATION. OUTDOOR DUCTWORK TO BE INSTALLED UNDER PROTECTIVE ROOF OR OVERHANG (BY G.C. COORDINATE WITH ARCHITECT) TO PREVENT AGAINST FALLING ICE AND SNOW FROM ROOF.
10. 4"Ø SEMI-RIGID STAINLESS STEEL DRYER VENT WITH RIGID ELBOW CONNECTION AT DRYER
11. BOTTOM OF DUCT MIN. 8'-0" AFF.
12. SEE PLUMBING DRAWING FOR CONTINUATION OF VENT/COMBUSTION AIR AND GAS PIPING TO WATER HEATER.

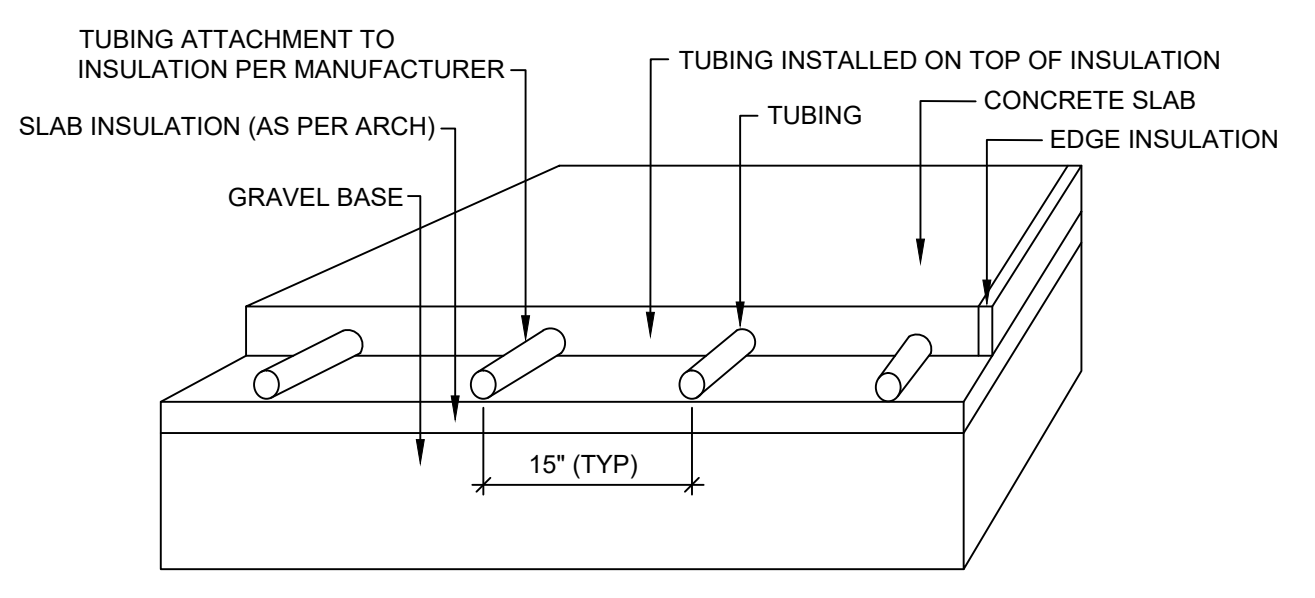


1 FLOOR PLAN HVAC DUCTWORK AND PIPING
 SCALE: 1/4" = 1'-0"



NOTES:
 1. PROVIDE AT ALL HIGH POINTS IN PIPING SYSTEM
 2. PROVIDE 1/2" BALL VALVE AND PIPING WITH HOSE BIBB ADAPTER FOR PIPING 2 1/2" DIA. AND LARGER.

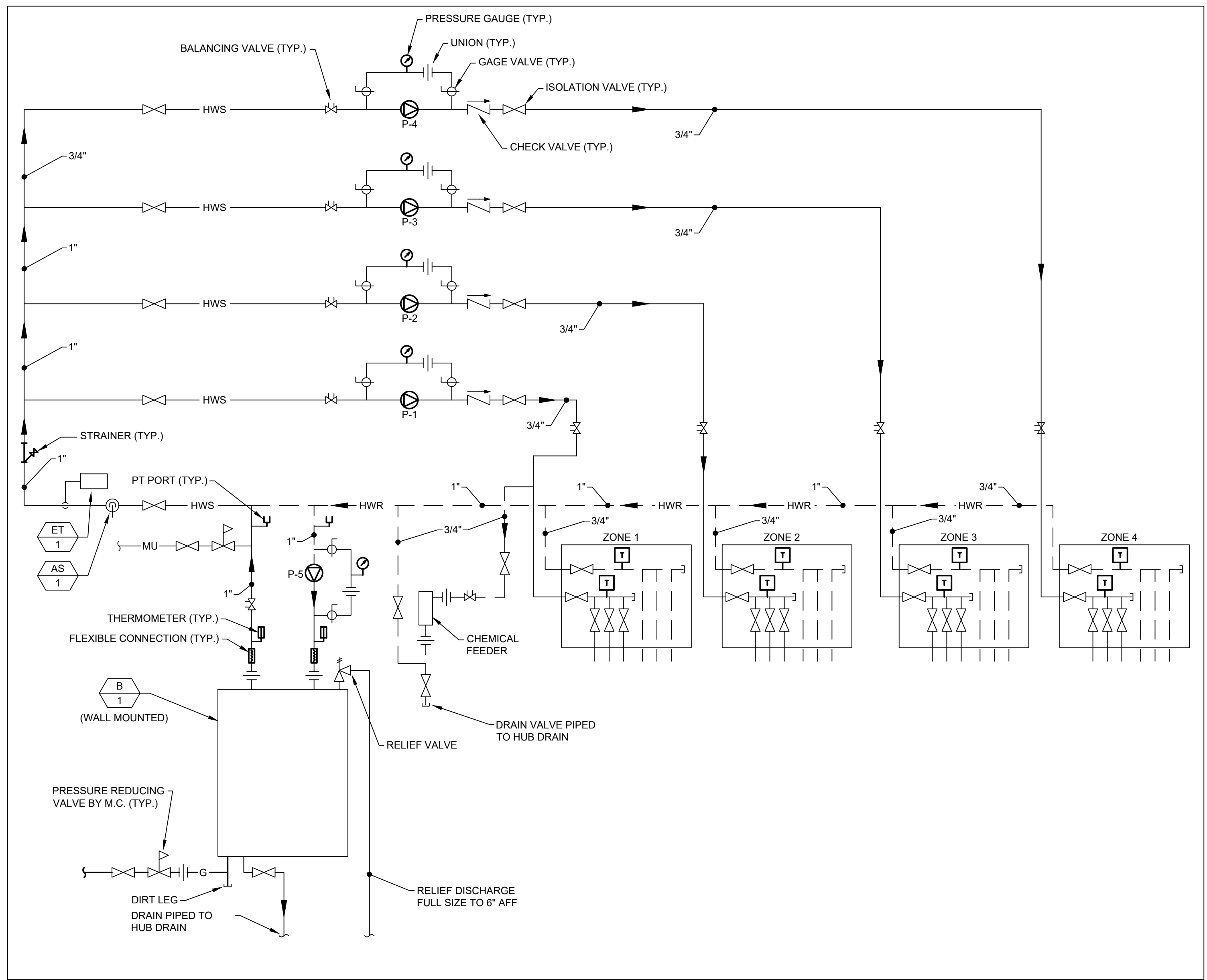
3 MANUAL AIR VENT DETAIL
 SCALE: NTS



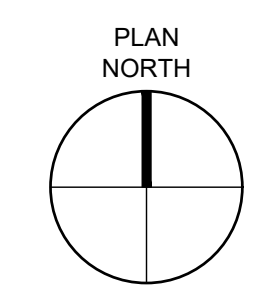
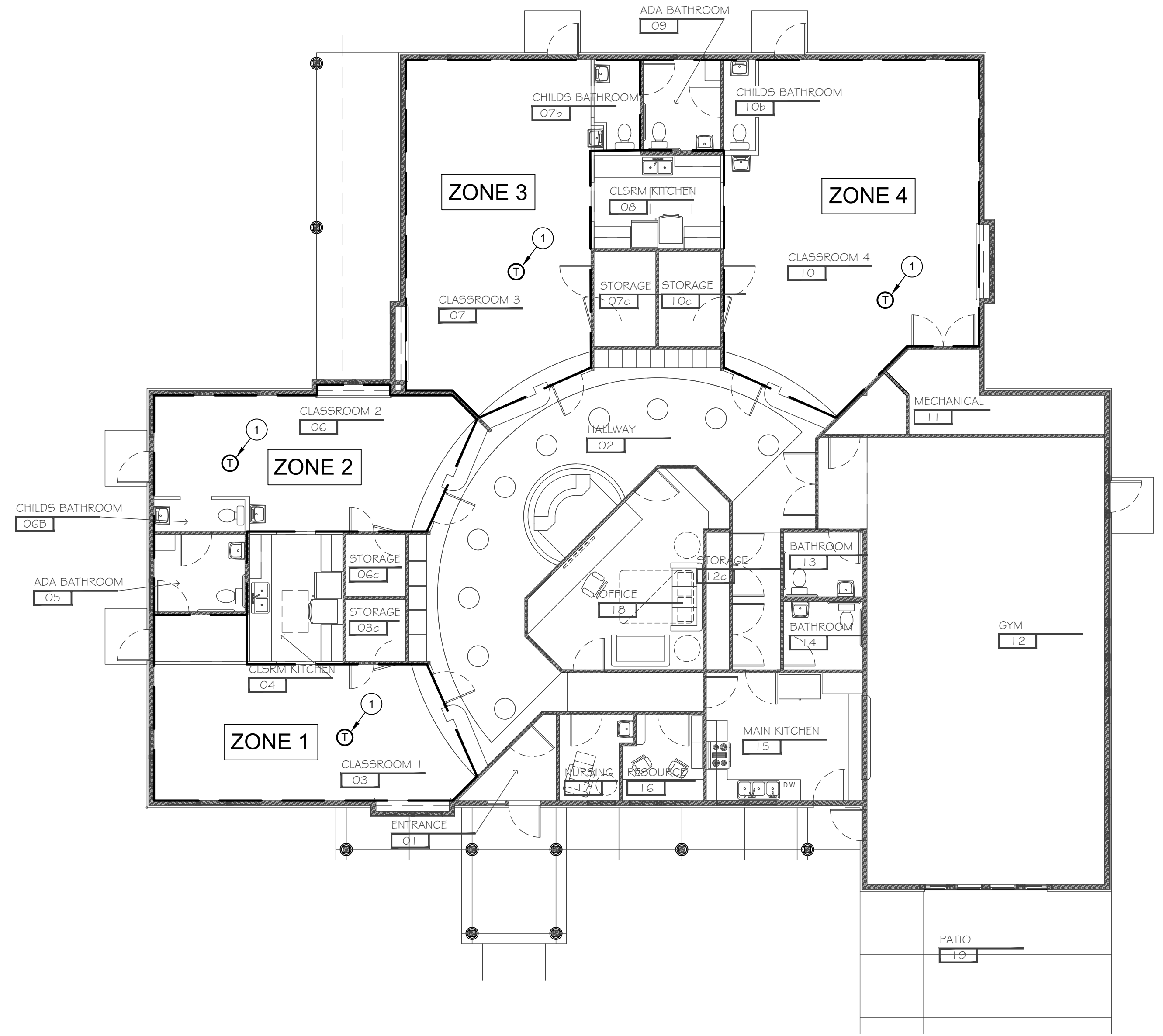
4 RADIANT TUBING DETAIL
 SCALE: NTS

KEYNOTES
 1. PROVIDE (2) IN-FLOOR TEMPERATURE SENSORS FOR CONTROL OF PUMP. AVERAGE THE OUTPUTS TO MAINTAIN AN 82 DEG. F SLAB TEMPERATURE.

GENERAL NOTES
 1. HEATING CONTRACTOR SHALL ENGAGE THE SERVICES OF THE SELECTED INFLOOR SYSTEM SUPPLIER TO PROVIDE A FULLY ENGINEERED IN FLOOR HEATING SYSTEM. COMPLETE CALCULATIONS, PIPING LAYOUT AND DETAILS SHALL BE INCLUDED IN EQUIPMENT SUBMITTALS. INCLUDE MANIFOLD BOXES, VALVES, PIPING MATERIALS, ACCESSORIES AND INSTALLATION DETAILS.
 a. DESIGN CONDITIONS INDICATED ON PLAN SHALL BE USED BY SUPPLIER FOR DESIGN OF THE LOOP PIPING AND REQUIRED FLOWS.
 b. SYSTEM SUPPLIER SHALL OBTAIN A COMPLETE SET OF PROJECT DOCUMENTS AND COORDINATE WITH ALL DISCIPLINES FOR ROUTING OF PIPE IN FLOOR.
 c. H.C. SHALL PHOTOGRAPH AND DOCUMENT ALL INFLOOR INSTALLATION PRIOR TO POURING OF CONCRETE.
 d. H.C. SHALL COORDINATE WITH E.C. TO EXTEND CONDUIT FROM THE INFLOOR TEMPERATURE SENSOR LOCATIONS. CONDUIT SHALL BE INSTALLED INSIDE WALLS.
 2. REFER TO DETAIL 4/M102 FOR INSTALLATION OF RADIANT FLOOR TUBING.



2 IN-FLOOR HEATING SYSTEM PIPING SCHEMATIC
 SCALE: NTS



1 IN-FLOOR HEATING SYSTEM ZONING
 SCALE: 1/8" = 1'-0"

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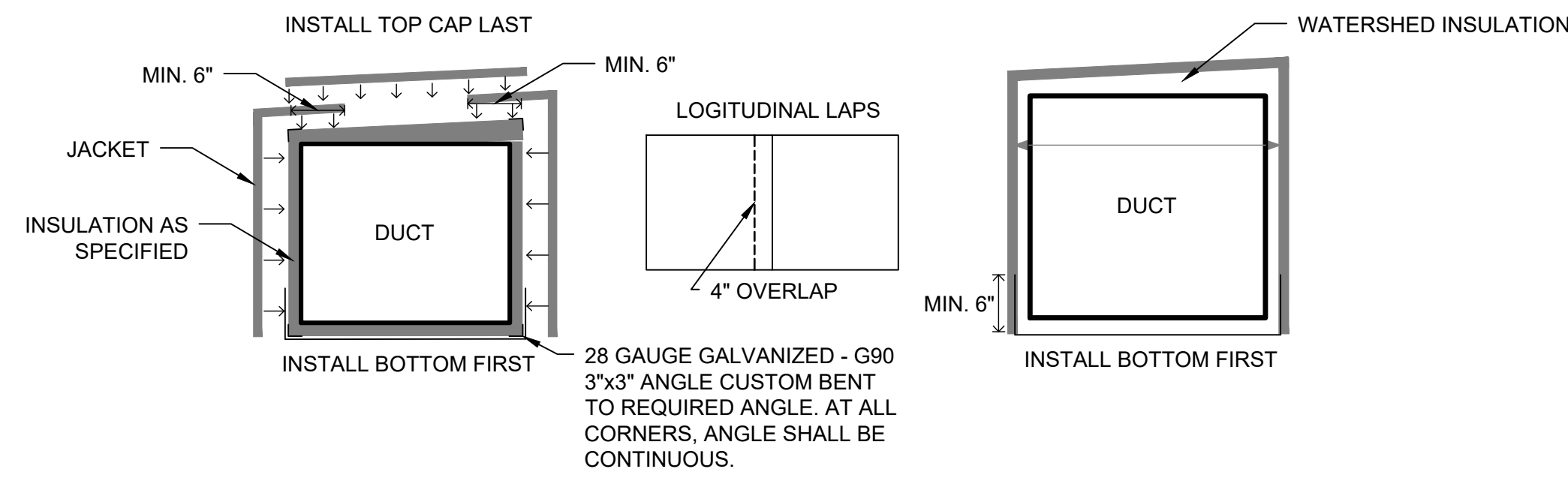
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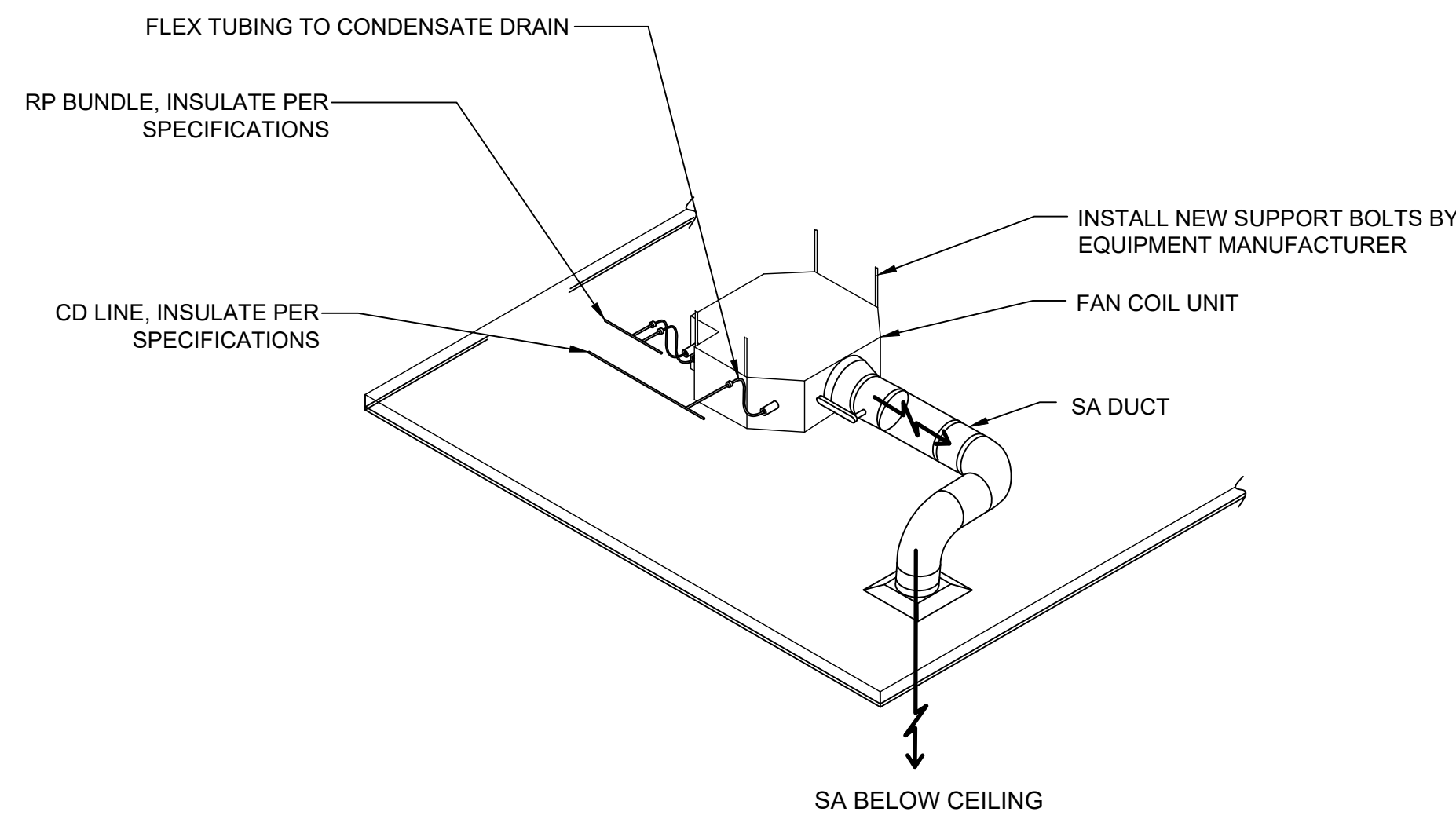


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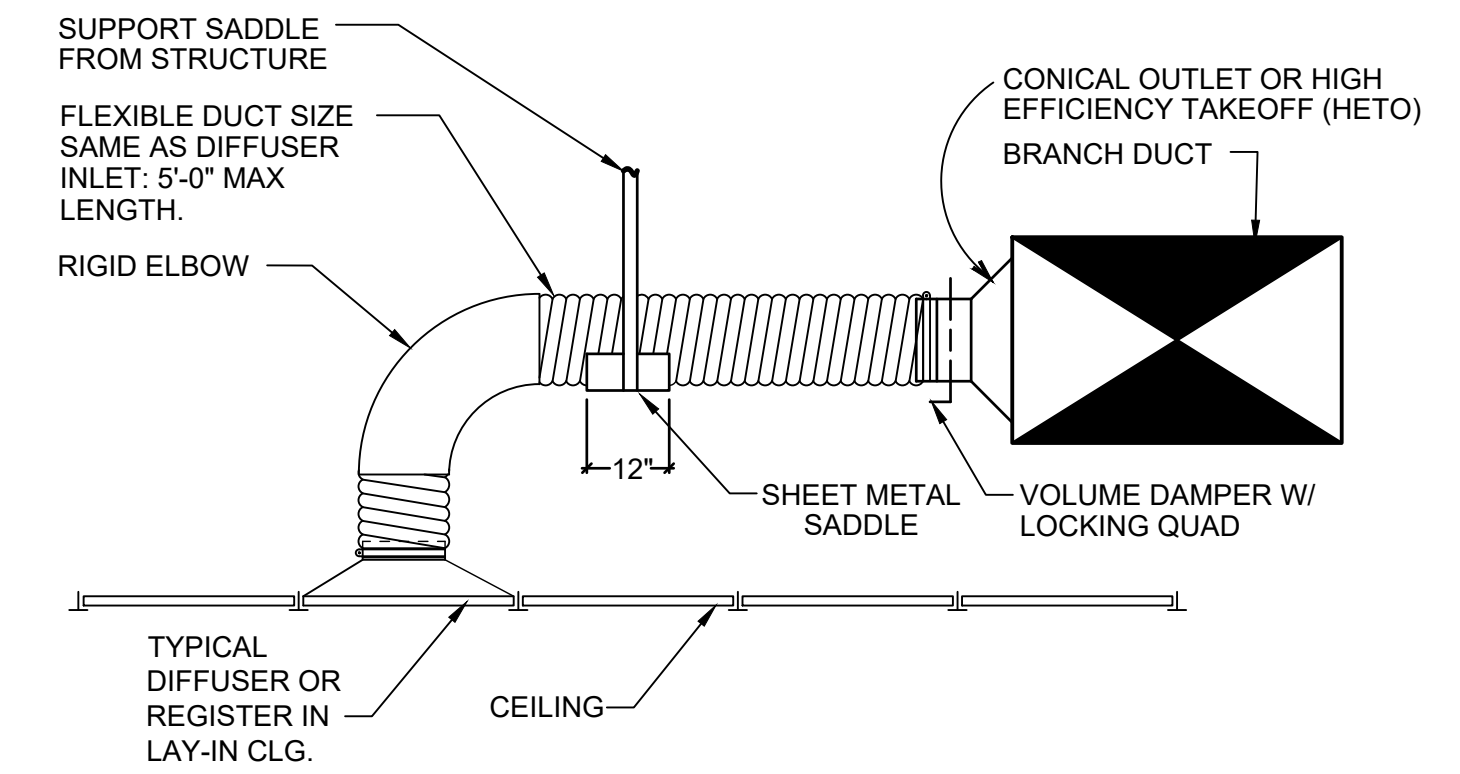
NOTE: 1. CONTRACTOR SHALL CONFORM TO ADDITIONAL REQUIREMENTS OF MANUFACTURER.
 2. NOTIFY A/E AFTER INSULATION INSTALLATION AND PRIOR TO JACKET INSTALLATION FOR FIELD INSPECTION.



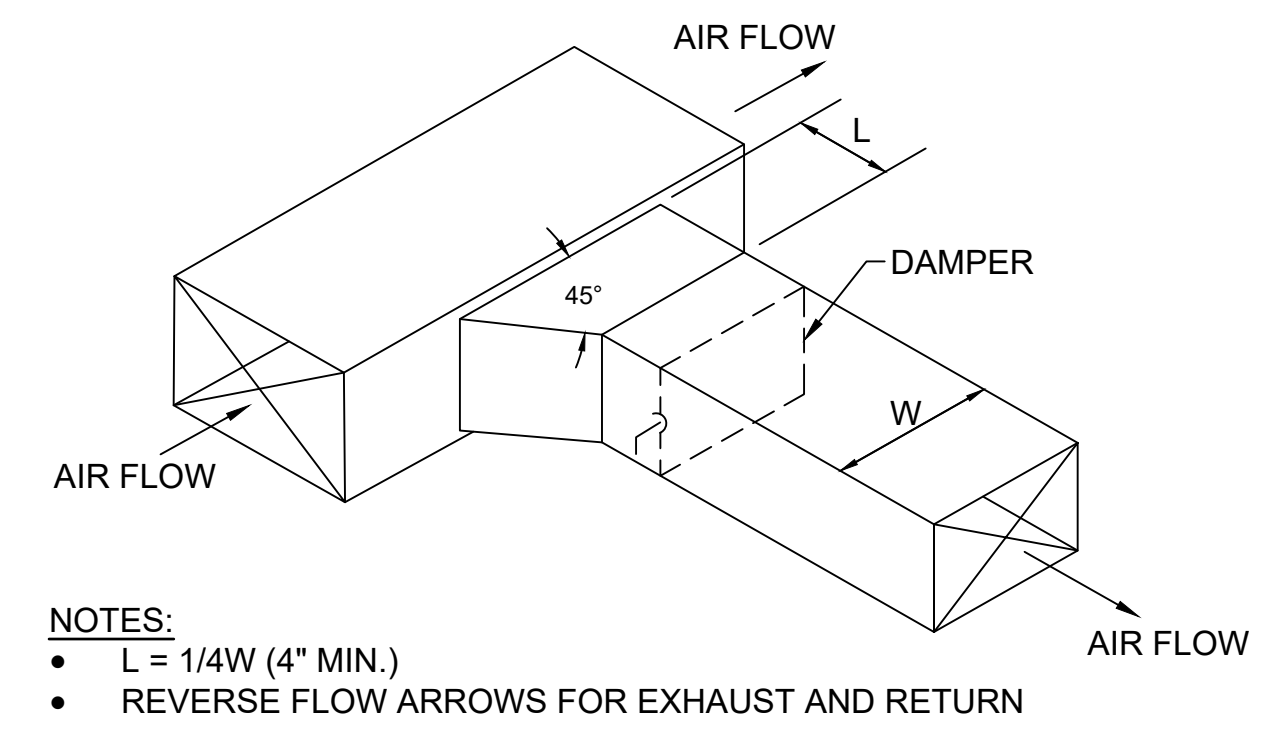
6 OUTDOOR DUCTWORK INSULATION JACKET DETAIL
 SCALE: NTS



5 FAN COIL UNIT (DUCTED)
 SCALE: NTS

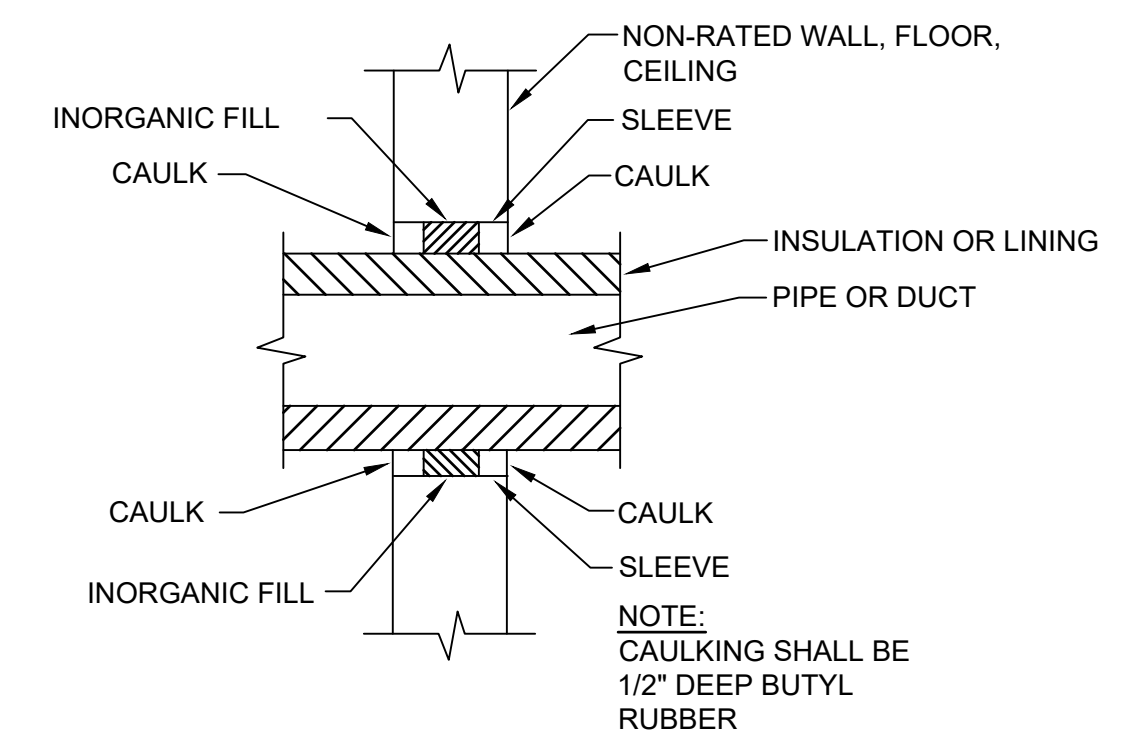


3 FLEXIBLE AIR DUCT CONNECTOR
 SCALE: NTS

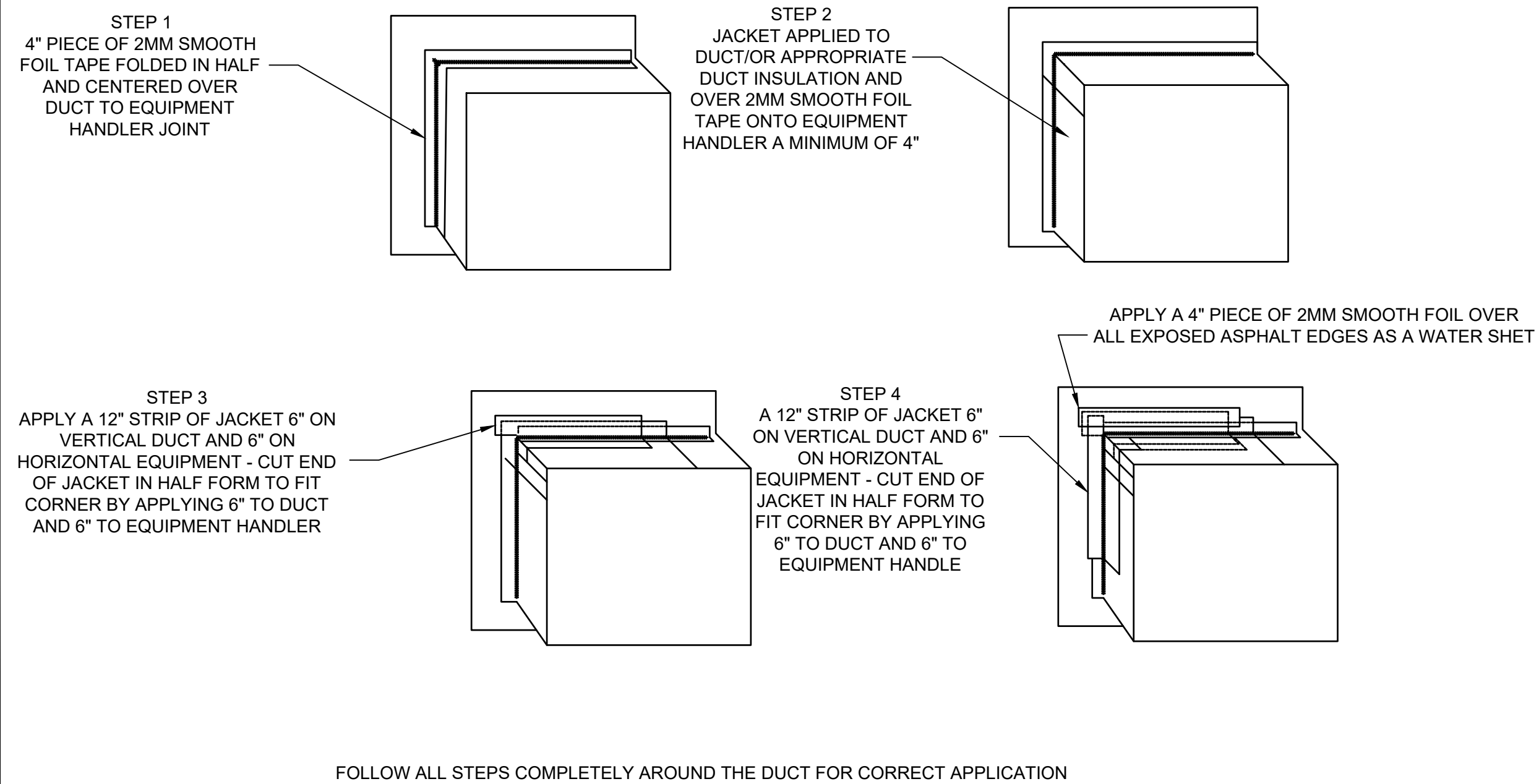


NOTES:
 • L = 1/4W (4" MIN.)
 • REVERSE FLOW ARROWS FOR EXHAUST AND RETURN

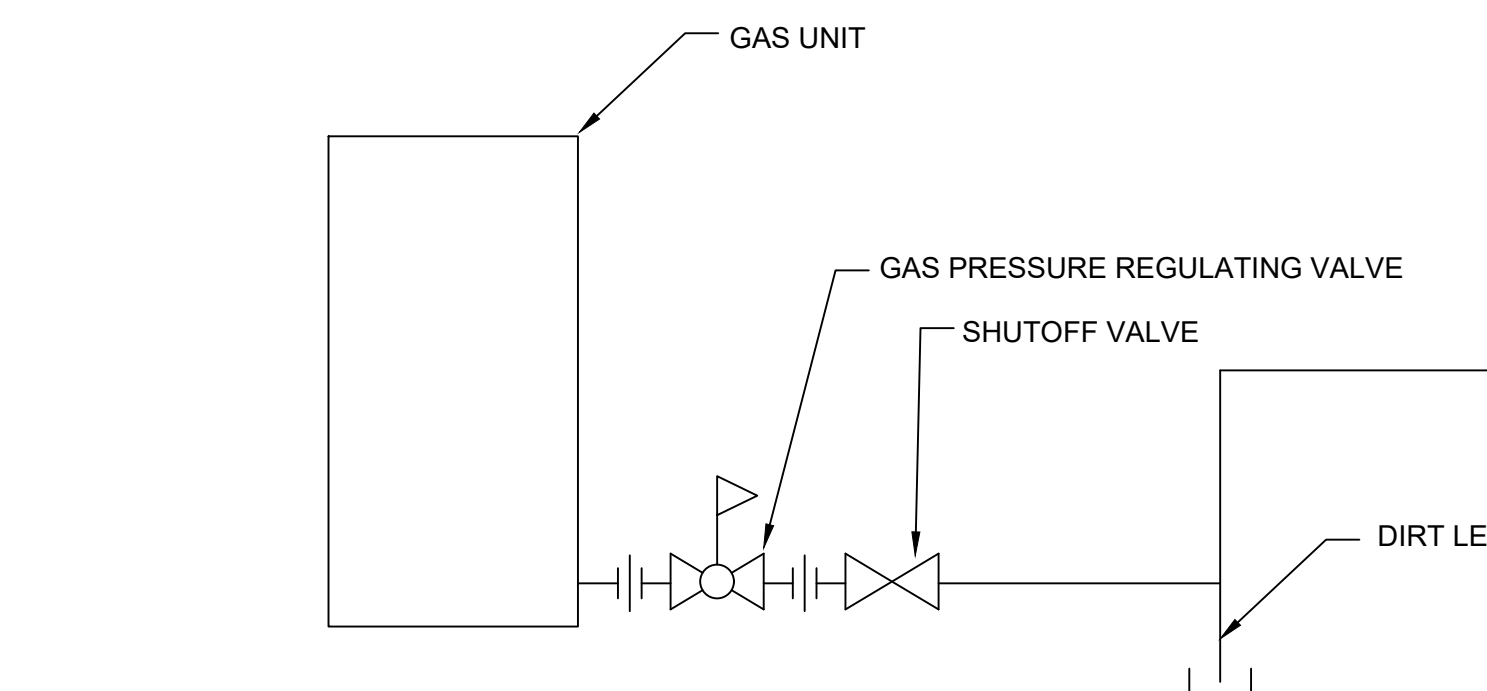
2 BRANCH DUCT TAKEOFF
 SCALE: NTS



1 PIPE OR DUCT SLEEVE DETAIL
 SCALE: NTS



7 OUTDOOR DUCT INSULATION JACKET EQUIPMENT SEALING DETAIL
 SCALE: NTS



4 TYPICAL EQUIPMENT GAS CONNECTION DETAIL
 SCALE: NTS

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M400

ROOFTOP UNIT SCHEDULE																					
MARK	LOCATION	SERVICE	NOMINAL CAPACITY (TONS)	SUPPLY FAN				HEATING COIL				COOLING COIL				MANUFACTURER	MODEL	REMARKS			
				SUPPLY AIRFLOW (CFM)	OUTSIDE AIRFLOW (CFM)	EXT. STATIC PRESS. (IN. W.G.)	DRIVE	MOTOR SIZE (HP)	E.A.T. (°F)	L.A.T. (°F)	INPUT (MBH)	OUTPUT (MBH)	ENTERING AIR		LEAVING AIR				CAPACITY		
													DRY BULB (°F)	WET BULB (°F)	DRY BULB (°F)				WET BULB (°F)	SENS. (MBH)	TOTAL (MBH)
RTU-1	ON GRADE	GYM	8	2400	450	1.0	BELT	3	55	102	87.5	70	77.3	69	55	53.4	53.2	108.6	DAIKIN	MPS	1.2

NOTES: 1. PROVIDE UNIT WITH ENTHALPY ECONOMIZER.
2. PROVIDE UNIT WITH INTEGRAL DISCONNECT STARTER.

ENERGY RECOVERY UNIT SCHEDULE														
MARK	LOCATION	SERVICE	MOUNTING LOCATION	RECOVERY DEVICE TYPE	SUPPLY SIDE			EXHAUST SIDE			OPERATING WEIGHT (POUNDS)	MANUFACTURER	MODEL	REMARKS
					AIRFLOW (CFM)	EXTERNAL STATIC PRESS. (IN. W.G.)	MOTOR SIZE (HP)	AIRFLOW (CFM)	EXTERNAL STATIC PRESS. (IN. W.G.)	MOTOR SIZE (HP)				
ERU-1	SEE PLANS	AC-1,2	CEILING	FIXED CORE	225	0.5	0.5	225	0.5	0.5	199	RENEWAIRE	EV450	1.2
ERU-2	SEE PLANS	AC-3,4	CEILING	FIXED CORE	300	0.5	0.5	300	0.5	0.5	199	RENEWAIRE	EV450	1.2
ERU-3	SEE PLANS	AC-5,6	CEILING	FIXED CORE	225	0.5	0.5	225	0.5	0.5	199	RENEWAIRE	EV450	1.2

NOTES: 1. PROVIDE WITH ISOLATION DAMPERS.
2. PROVIDE NON-FUSED DISCONNECT MOUNTED ADJACENT TO UNIT.

ENERGY RECOVERY UNIT SCHEDULE (CONTINUED)

MARK	SUMMER PERFORMANCE								WINTER PERFORMANCE								UNIT ELECTRICAL			
	OUTSIDE AIR		ROOM AIR		FRESH AIR		EFFECTIVENESS (%)	OUTSIDE AIR		ROOM AIR		FRESH AIR		EFFECTIVENESS (%)	MINIMUM CIRCUIT AMPS (MCA)	MAXIMUM OVERCURRENT PROTECTION (MOCP)	VOLTAGE	PHASE		
	DRY BULB (°F)	WET BULB (°F)	DRY BULB (°F)	WET BULB (°F)	DRY BULB (°F)	WET BULB (°F)		DRY BULB (°F)	WET BULB (°F)	DRY BULB (°F)	WET BULB (°F)	DRY BULB (°F)	WET BULB (°F)							
ERU-1	87	75	75	62	77.5	67.1	66.5	-15	-16	70	58.4	52	43.5	70.5	6	15	208	1		
ERU-2	87	75	75	62	77.9	67.6	62.4	-15	-16	68	52	49.4	41.4	66.9	6	15	208	1		
ERU-3	87	75	75	62	77.5	67.1	66.5	-15	-16	70	58.4	52	43.5	70.5	6	15	208	1		

VARIABLE REFRIGERANT VOLUME - INDOOR UNIT SCHEDULE

TAG	ROOM	BASIS OF DESIGN (DAIKIN)	NOMINAL TONNAGE	TYPE	CONNECTED TO:		SUPPLY FAN		COOLING CAPACITY				HEATING CAPACITY		ELECTRICAL			DIMENSIONS WxHxD INCH	WEIGHT NET LBS	NOTES	Options and Accessories
					CONDENSING UNIT	ZONE CHANGEOVER DEVICE	AIR FLOW RATE CFM	OUTSIDE AIR FLOW CFM	TOTAL BTU/H	SENSIBLE BTU/H	ENTERING AIR °F DB °F WB		TOTAL BTU/H	ENTERING AIR °F DB	POWER SUPPLY Voltage - Phase	MIN CIRCUIT AMPS MCA	MAX OVERCURRENT MOP				
AC-1		FXSQ24TAVJU	2.0	MSP CONCEALED DUCTED	HP-1	No	740	135	20,608	15,454	75.0	62.5	26,955	70.0	208-230V 1PH	1.8	15.0	39.4 x 9.7 x 31.5	82.0	1	BRC1E73 (1)
AC-2		FXSQ15TAVJU	1.3	MSP CONCEALED DUCTED	HP-1	No	530	90	12,829	10,192	75.0	62.5	17,060	70.0	208-230V 1PH	1.4	15.0	27.6 x 9.7 x 31.5	60.0	1	BRC1E73 (1)
AC-3		FXSQ30TAVJU	2.5	MSP CONCEALED DUCTED	HP-1	No	810	140	25,914	20,377	75.0	62.5	34,120	70.0	208-230V 1PH	1.8	15.0	39.4 x 9.7 x 31.5	82.0	1	BRC1E73 (1)
AC-4		FXSQ30TAVJU	2.5	MSP CONCEALED DUCTED	HP-1	No	810	160	25,914	20,377	75.0	62.5	34,120	70.0	208-230V 1PH	1.8	15.0	39.4 x 9.7 x 31.5	82.0	1	BRC1E73 (1)
AC-5		FXSQ15TAVJU	1.3	MSP CONCEALED DUCTED	HP-1	No	530	75	12,829	10,192	75.0	62.5	17,060	70.0	208-230V 1PH	1.4	15.0	27.6 x 9.7 x 31.5	60.0	1	BRC1E73 (1)
AC-6		FXSQ30TAVJU	2.5	MSP CONCEALED DUCTED	HP-1	No	810	150	25,914	20,377	75.0	62.5	34,120	70.0	208-230V 1PH	1.8	15.0	39.4 x 9.7 x 31.5	82.0	1	BRC1E73 (1)

NOTES: 1. PROVIDE NON-FUSED DISCONNECT ADJACENT TO UNIT.

RANGE HOOD SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	LOCATION	CFM	E.S.P.	H.P.	DRIVE	R.P.M.	SONES	VOLTS	PHASE	SERVICE	REMARKS
RH-1	BROAN	F40000 SERIES	KITCHEN	190	-	-	-	-	-	120	1	KITCHEN	1

NOTES: 1. PROVIDE RANGE HOOD WITH INTEGRAL LIGHT WITH SWITCH AND WASHABLE FILTER.

HEAT PUMP UNIT SCHEDULE

TAG	LOCATION	BASIS OF DESIGN (DAIKIN)	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	COOLING COP 47	ELECTRICAL					REFRIGERANT	WEIGHT (LBS)	NOTES
						VOLTAGE	PHASE	HERTZ	MCA	RLA			
HP-1	SEE PLANS	RXYQ120TATJU	106.8	106.8	3.56/3.3	208	3	60	36.3	26.2	R410A	527	1

NOTES: 1. PROVIDE WEATHER-PROOF DISCONNECT MOUNTED ON UNIT.

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BOILER SCHEDULE																
TAG	LOCATION	MANUFACTURER	MODEL	COMBUSTION TYPE	NATURAL GAS INPUT (MBH)	RATED OUTPUT (MBH)	FLOW (GPM)	HEAD (FT)	VENT DIA. (IN)	COMBUSTION AIR DIA. (IN)	WATER CONN. DIA. (IN)	ELECTRICAL			UNIT WEIGHT (LBS.)	NOTES
												VOLTAGE	PHASE	AMPS		
B-1	MECH RM	NTI	TX81	SEALED	82	75	5	10'	3"	3"	1"	120	1		79	1,2

- NOTES: 1. HC SHALL COORDINATE WITH THE INFLOOR SYSTEM SUPPLIER FOR TO CONFIRM CAPACITY BASED ON INFLOOR SYSTEM SUPPLIERS DESIGN.
2. PROVIDE UNIT WITH INTEGRAL DISCONNECT.

PUMP SCHEDULE													
TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	TYPE	GPM	PRESSURE HEAD (FEET)	RPM (MAX)	HP	VOLTAGE	PHASE	VFD	NOTES
P-1	MECH RM	IN-FLOOR HEAT	GRUNDFOS	SERIES UP	CIRCULATOR	TBV	TBV	3450	TBV	208	1	NO	1,2
P-2	MECH RM	IN-FLOOR HEAT	GRUNDFOS	SERIES UP	CIRCULATOR	TBV	TBV	3450	TBV	208	1	NO	1,2
P-3	MECH RM	IN-FLOOR HEAT	GRUNDFOS	SERIES UP	CIRCULATOR	TBV	TBV	3450	TBV	208	1	NO	1,2
P-4	MECH RM	IN-FLOOR HEAT	GRUNDFOS	SERIES UP	CIRCULATOR	TBV	TBV	3450	TBV	208	1	NO	1,2
P-5	MECH RM	BOILER	GRUNDFOS	SERIES UP	CIRCULATOR	5	10'	3450	85 W	208	1	NO	2

- NOTES: 1. HC SHALL COORDINATE WITH THE INFLOOR SYSTEM SUPPLIER FOR TO CONFIRM CAPACITY BASED ON INFLOOR SYSTEM SUPPLIERS DESIGN.
2. PROVIDE WALL-MOUNTED NON-FUSED DISCONNECT.

AIR SEPARATOR SCHEDULE											
TAG	SERVICE	LOCATION	MANUFACTURER	MODEL	SIZE (IN.)	FLUID TYPE	FLOW (GPM)	MAX. PRESS. DROP (FT.)	STRAINER (YES / NO)	OPERATING WEIGHT (LBS)	NOTES
AS-1	RADIANT IN FLOOR SYSTEM	MECHANICAL ROOM	SPIROTHERM	VDR100	1	WATER	5	0.2	NO	3.5	1

- NOTES: 1. HC SHALL COORDINATE WITH THE INFLOOR SYSTEM SUPPLIER FOR TO CONFIRM CAPACITY BASED ON INFLOOR SYSTEM SUPPLIERS DESIGN.

FAN SCHEDULE													
UNIT NO.	MANUFACTURER	MODEL	LOCATION	CFM	E.S.P.	H.P.	DRIVE	R.P.M.	SONES	VOLTS	PHASE	SERVICE	REMARKS
DF-1	LEADING EDGE	36201	GYM	12500	-	75 WATTS	DIRECT	395	-	120	1	GYM	1,2,3
DF-2	LEADING EDGE	36201	GYM	12500	-	75 WATTS	DIRECT	395	-	120	1	GYM	1,2,3

- NOTES: 1. PROVIDE LINE VOLTAGE SPEED CONTROLLER(BY H.C.) TO E.C. FOR INSTALLATION.
2. PROVIDE WITH PROTECTIVE CAGE.
3. PROVIDE ONE FAN CONTROL PANEL TO SERVE BOTH FANS FOR START/STOP, SPEED CONTROL, AND REVERSING.

ELECTRIC WALL HEATER SCHEDULE								
UNIT NO.	MANUFACTURER	LOCATION	MODEL	ELECTRICAL DATA			MOUNTING	NOTES
				KW	VOLTS	PHASE		
EW-1	Q-MARK	ENTRANCE	AWH-4408F	4	208	1	SEMI-RECESSED	1, 2, 3
EW-2	Q-MARK	MECHANICAL	AWH-4408F	4	208	1	SEMI-RECESSED	1, 2, 3

- NOTES: 1. PROVIDE UNITS WITH REMOTE THERMOSTATS.
2. PROVIDE UNITS WITH INTEGRAL DISCONNECT SWITCH.
3. INSTALL UNITS AT 18" AFF TO BOTTOM OF UNIT, UNLESS NOTED OTHERWISE ON PLAN.

GRILLE, REGISTER AND DIFFUSER SCHEDULE											
MARK	LOCATION	AIRFLOW RANGE (CFM)	NECK SIZE (IN. x IN.) OR (IN. DIA.)	FACE SIZE (IN. x IN.)	MAX PRESS. DROP (IN. W.G.)	MOUNTING SURFACE	APPLICATION	MATERIAL	MANUFACTURER	MODEL	REMARKS
SG-1	SEE PLAN	600	24 x 10	26 x 12	0.1	DUCT MOUNTED	SUPPLY	STEEL	TITUS	111RL	1
SG-2	SEE PLAN	265 - 405	18 x 6	20 x 8	0.1	WALL	SUPPLY	STEEL	TITUS	111RL	
SG-3	SEE PLAN	200	8	10 x 10	0.1	WALL	SUPPLY	STEEL	TITUS	111RL	
CD-1	SEE PLAN	120-130	8	24 x 24	0.1	CEILING	SUPPLY	STEEL	TITUS	OMNI	
CD-2	SEE PLAN	570	12	24 x 24	0.15	CEILING	SUPPLY	STEEL	TITUS	OMNI	
RG-1	SEE PLAN	2400	36 x 34	38 x 36	0.013	WALL	RETURN	STEEL	TITUS	30R	
RG-2	SEE PLAN	440-670	18 x 12	20 x 14	0.051	WALL	RETURN	STEEL	TITUS	350RL	
RG-3	SEE PLAN	495	22 x 22	24 x 24	0.1	WALL	RETURN	STEEL	TITUS	50R	
RG-4	SEE PLAN	0-320	12 x 10	14 x 12	0.1	WALL	RETURN	STEEL	TITUS	50R	
RG-5	SEE PLAN	120-130	6	24 x 24	0.1	CEILING	RETURN	STEEL	TITUS	50R	
EG-1	SEE PLAN	75	6	24 x 24	0.1	CEILING	EXHAUST	STEEL	TITUS	50R	
EG-2	SEE PLAN	75	6x6	8x8	0.1	WALL	EXHAUST	STEEL	TITUS	350RL	

- NOTES: 1. PROVIDE WITH INTEGRAL DAMPER.

DIMENSION IV
 Planning, Architectural Design, and Construction Administration
 Green Architecture and Sustainable Design
 Phone: (820) 431-3444
 Fax: (820) 431-3445
 www.dimensionaliv.com
 124 S. Broadway
 Green Bay, WI 54303
 A Division of Idea House, Inc.

YOU ARE MY SUNSHINE
 New Construction
 Allouez, WI
 1324 S. Webster Ave.

Verify all existing site conditions.
 REVISIONS:

SHEET INDEX:
 MECHANICAL
 SCHEDULES

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 02/20/2020
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5100 Eastpark Blvd., Suite 300, Madison, WI 53718,
 ph. 608-241-6725 Job# 2020024

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